

RF Test Report

Report No.: AGC00552190802EE10

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : X20 PRO
APPLICANT : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : Sep. 20, 2019
STANDARD(S) : EN 301 908-1 V11.1.1 (2016-07)
: EN 301 908-13 V11.1.2 (2017-07)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

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V1.0	/	Sep. 20, 2019	Valid	Initial release



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1. TEST REPORT CERTIFICATION

Applicant	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	X20 PRO
Date of test	Aug. 20, 2019 to Sep. 18, 2019
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-LTE2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 908-1/-13. The results of testing in this report apply to the product system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

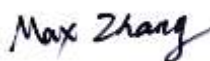
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Sep. 18, 2019

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Sep. 20, 2019

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Sep. 20, 2019

2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	X20 PRO
Product Type	LTE
Hardware Version	E966_MAIN_PCB_V1.0
Software Version	CUBOT_X20 PRO_9071C_V01_20190807
LTE Support Band	<input checked="" type="checkbox"/> FDD Band 1 <input checked="" type="checkbox"/> FDD Band 3 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 8 <input checked="" type="checkbox"/> FDD Band 20 (EU Bands) <input checked="" type="checkbox"/> FDD Band 19 (Non-EU Bands)
TX Frequency Range	FDD Band 1: 1920 MHz – 1980 MHz FDD Band 3: 1710 MHz – 1785 MHz FDD Band 7: 2500 MHz – 2570 MHz FDD Band 8: 880 MHz – 915 MHz FDD Band 20: 832 MHz – 862 MHz
RX Frequency Range	FDD Band 1: 2110 MHz – 2170 MHz FDD Band 3: 1805 MHz – 1880 MHz FDD Band 7: 2620 MHz – 2690 MHz FDD Band 8: 925 MHz – 960 MHz FDD Band 20: 791 MHz – 821 MHz
Modulation Mode	QPSK/16QAM
Antenna Type	Hardware antenna
LTE Antenna Gain	Band 1 :1.07dBi; Band 3 :0.86dBi; Band 7 :1.13dBi; Band 8 :0.65dBi; Band 20 :0.53dBi
Diversity Antenna Gain	Band 1 :1.02dBi; Band 3 :0.82dBi; Band 7 :1.10dBi; Band 8 :0.61dBi; Band 20 :0.50dBi
Power Class	FDD Band 1:3, FDD Band 3:3, FDD Band 7:3, FDD Band 8:3, FDD Band 20:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards, just one for GSM/WCDMA/LTE and the other only for GSM.
Diversity Antenna Description	Diversity antenna is only used to receive. Its purpose is to increase sensitivity of LTE. The receiver items test results in the report already contain the diversity antenna test.

2.1.2. PHOTOGRAPHS OF THE EUT

Please see Photo report for photographs of the EUT.

2.1.3. IDENTIFICATION OF SAMPLES EUT

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by AGC, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafului Technology Co., Ltd.
Test Model	X20 PRO
Product Type	FDD Band 1, FDD Band 3, FDD Band 7, FDD Band 8, FDD Band 20
Frequency Bands	QPSK/16QAM;



2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Operating bands RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band 2
3	UE Power Class 3 (+23 dBm)	YES	Yes/No	--
4	Frequency band: 1710-1785, 1805-1880 MHz	YES	Yes/No	Band 3
5	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band 4
6	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band 5
7	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band 6
8	Frequency band: 2500-2570, 2620-2690 MHz	YES	Yes/No	Band 7
9	Frequency band: 880-915, 925-960 MHz	YES	Yes/No	Band 8
10	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band 9
11	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band 10
12	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band 11
13	Frequency band: 699-716, 729-746 MHz	NO	Yes/No	Band 12
14	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band 13
15	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band 14
16	Reserved	NO	Yes/No	Band 15
17	Reserved	NO	Yes/No	Band 16
18	Frequency band: 704 – 716 , 734 – 746 MHz	NO	Yes/No	Band 17
19	Frequency band: 815-830, 860-875 MHz	NO	Yes/No	Band 18
20	Frequency band: 830-845, 875-890 MHz	NO	Yes/No	Band 19
21	Frequency band: 832-862, 791-821MHz	YES	Yes/No	Band 20
22	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	NO	Yes/No	Band 21
23	Frequency band: 3410-3490, 3510-3590 MHz	NO	Yes/No	Band 22
24	Frequency band: 2000-2020, 2180-2200 MHz	NO	Yes/No	Band 23

25	Frequency band: 1626.5-1660.5, 1525-1559 MHz	NO	Yes/No	Band 24
26	Frequency band: 1850-1915, 1930-1995 MHz	NO	Yes/No	Band 25
27	Frequency band: 814-849, 859-894 MHz	NO	Yes/No	Band 26
28	Frequency band: 807-824, 852-869 MHz	NO	Yes/No	Band 27
29	Frequency band: 703-748, 758-803 MHz	NO	Yes/No	Band 28
30	Frequency band: N/A, DL: 717-728 MHz	NO	Yes/No	Band 29
31	Frequency band: 2305-2315, 2350- 2360 MHz	NO	Yes/No	Band 30
32	Frequency band: 452.5-457.5, 462.5 - 467.5 MHz	NO	Yes/No	Band 31
33				...
34	Frequency band: 1900-1920, 1900-1920 MHz	NO	Yes/No	Band 33
35	Frequency band: 2010-2025, 2010-2025 MHz	NO	Yes/No	Band 34
36	Frequency band: 1850-1910, 1850-1910 MHz	NO	Yes/No	Band 35
37	Frequency band: 1930-1990, 1930-1990 MHz	NO	Yes/No	Band 36
38	Frequency band: 1910-1930, 1910-1930 MHz	NO	Yes/No	Band 37
39	Frequency band: 2570-2620, 2570-2620 MHz	NO	Yes/No	Band 38
40	Frequency band: 1880-1920, 1880-1920 MHz	NO	Yes/No	Band 39
41	Frequency band: 2300-2400, 2300-2400 MHz	NO	Yes/No	Band 40
42	Frequency band: 2496-2690, 2496- 2690 MHz	NO	Yes/No	Band 41
43	Frequency band: 3400-3600, 3400-3600 MHz	NO	Yes/No	Band 42
44	Frequency band: 3600-3800, 3600-3800 MHz	NO	Yes/No	Band 43
45	Frequency band: 703-803, 703-803 MHz	NO	Yes/No	Band 44

Note 1: Band 6 is not applicable.

Note 2: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

LIST OF EQUIPMENTS USED OF AGC&NETC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Feb. 27, 2019	Feb. 26, 2020
2	Wireless communication test CMW500	R&S	120909	Jul. 11, 2019	Jul. 10, 2020
3	Wireless communication test set 8960	Agilent	GB46200384	Jul. 11, 2019	Jul. 10, 2020
4	Power Splitter 7100LC	KALMUS	04-02/17-06-001	Jun. 12, 2019	Jun. 11, 2020
5	Attenuator	JFW	50FHC-006-50	Jun. 12, 2019	Jun. 11, 2020
6	Vector Signal Generator SMU200A	R&S	104332	Sep. 20, 2018	Sep. 19, 2019
8	EXA Signal Analyzer N9010A	Agilent	MY53470504	Dec. 20, 2018	Dec. 19, 2019
9	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep. 20, 2018	Sep. 19, 2019
10	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep. 20, 2018	Sep. 19, 2019
11	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Dec. 20, 2018	Dec. 19, 2019
12	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
13	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Sep.20, 2018	Sep.19, 2019
14	DC Power Source	N/A	GBD-60V30A	Feb. 27, 2019	Feb. 26, 2020
15	Attenuator	JFW	50FHC-006-50	Jun. 12, 2019	Jun. 11, 2020
16	EMI Test Receiver	ESCI	100694	Jun. 12, 2019	Jun. 11, 2020
17	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020
18	Broadband Antenna VULB9168	SCHWARZBECK	D69250	Mar. 01, 2018	Feb. 28, 2020
19	Triple Loop Antenna RF300	LAPLACE	N/A	Mar. 01, 2018	Feb. 28, 2020



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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
20	Artificial Mains Network ENV4200	R&S	101116	Jul. 11, 2019	Jul. 10, 2020
21	Artificial Mains Network ENV216	R&S	101242	Jul. 11, 2019	Jul. 10, 2020
22	Filter Bank Notch 1(880-915MHz)	MICRO-TRONIC S	010	Feb. 27, 2019	Feb. 26, 2020
23	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONIC S	009	Feb. 27, 2019	Feb. 26, 2020
24	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONIC S	008	Feb. 27, 2019	Feb. 26, 2020



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4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	$\pm 0,7$ dB
Transmitter spectrum emissions mask	--	$\pm 1,5$ dB
Transmitter spurious emissions	9 kHz < f ≤ 4 GHz: $\pm 2,0$ dB 4 GHz < f ≤ 12,75 GHz: $\pm 4,0$ dB	$\pm 2,0$ dB $\pm 4,0$ dB
Transmitter Minimum output power	--	$\pm 1,0$ dB
Receiver Adjacent Channel Selectivity(ACS)	--	$\pm 1,1$ dB
Receiver Blocking characteristics	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	$\pm 1,3$ dB $\pm 3,2$ dB
Receiver spurious response	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	$\pm 1,3$ dB $\pm 3,2$ dB
Receiver intermodulation characteristics	--	$\pm 1,4$ dB
Receiver spurious emissions	30 MHz ≤ f ≤ 4,0 GHz: $\pm 2,0$ dB 4 GHz < f ≤ 12,75 GHz: $\pm 4,0$ dB	$\pm 2,0$ dB $\pm 4,0$ dB
Transmitter adjacent channel leakage power ratio	--	$\pm 0,8$ dB

NOTE 1: For RF tests it should be noted that the uncertainties in table 5.2-1 apply to the test system operating into a nominal 50 Ω load and do not include system effects due to mismatch between the EUT and the test system.

NOTE 2: If the test system for a test is known to have a measurement uncertainty greater than that specified in table 5.2-1, this equipment can still be used provided that an adjustment is made follows: any additional uncertainty in the test system over and above that specified in table 5.2-1 should be used to tighten the test requirements - making the test harder to pass (for some tests, e.g. receiver tests, this may require modification of stimulus signals). This procedure will ensure that a test system not compliant with table 5.2-1 does not increase the probability of passing an EUT that would otherwise have failed a test if a test system compliant with table 5.2-1 had been used.

5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	20 ... 75 %
Air Pressure	980 ... 1020 hPa
Adapter Test Model Name	HJ-0502000W2-EU
Details of Power Supply(Rated Input)	AC100-240V, 50/60Hz, 0.3A
Details of Power Supply(Rated Output)	DC5V, 2000mA
Extreme Temperature	Low Temperature (TL) = -10°C High Temperature (TH) = +40°C
Extreme Voltage of the EUT	Low Voltage = DC 3.45V Normal Voltage = DC 3.85V High Voltage = DC 4.40V

Note: The Limit Voltage 4.40V was declared by manufacturer,
The EUT couldn't be operate normally with higher voltage.
The maximum temperature of 40°C is not a standard requirement and is measured according to the maximum service temperature stated by the manufacturer.

5.3. ITEMS USED IN THE TEST RESULTS LIST

Terms in the column “Verdict” for the test results list of the section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
FOUR-FAITH	Test case not applicable for the EUT, see the column “Note” for detailed



5.4. TEST RESULTS LIST

ETSI EN 301 908-1

Test case	Description	Condition	FDD Band 1		FDD Band 3		FDD Band 7	
			Sample	Result	Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS	A01	PASS

Test case	Description	Condition	FDD Band 8		FDD Band 20	
			Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS



ETSI EN 301 908-13

Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 3	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS



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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 20MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	20MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 20MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 1.4 MHz and 20 MHz highest channel bandwidth
Band 3: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz

Teat case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 8	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS



4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 10MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	10MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 10MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel bandwidth
Band 8: 1.4MHz/3MHz/5MHz/10MHz

Teat case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 1		FDD Band 7		FDD Band 20		Remark
				Sample	Result	Sample	Result	Sample	Result	
4.2.2	Transmitter Maximum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.5	Transmitter Minimum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.3	Transmitter Spectrum Emission Mask	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.4	Transmitter Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--



4.2.6	Receiver Adjacent Channel	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.7	Receiver Blocking Characteristics	5MHz 20MHz	In band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Out Band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Narrow Band	A01	PASS	A01	PASS	A01	PASS	--
4.2.8	Receiver Spurious Response	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.9	Receiver Intermodulation Characteristics	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.10	Receiver Spurious Emissions	20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.12	Receiver Reference Sensitivity Level	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel 20MHz bandwidth.

Note: 1. Test reports have put the diversity antenna coupled together by the power divider test.
2. All the SIM Cards had been tested, but the worst test result is SIM Card 1 and recorded in the test report.

Appendix A for Band 1

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	24.01	Pass
					max	23.94	Pass
				Partial	0	24.15	Pass
					max	24.09	Pass
			Mid range	1	0	24.23	Pass
					max	24.25	Pass
				Partial	0	24.40	Pass
					max	24.37	Pass
			High range	1	0	24.00	Pass
					max	23.91	Pass
				Partial	0	23.96	Pass
					max	23.92	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	23.49	Pass
					max	23.55	Pass
				Partial	0	23.45	Pass
					max	23.51	Pass
			Mid range	1	0	23.66	Pass
					max	23.79	Pass
				Partial	0	23.67	Pass
					max	23.62	Pass
			High range	1	0	23.71	Pass
					max	23.67	Pass
				Partial	0	23.78	Pass
					max	23.71	Pass



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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-49.09	Pass
			Mid range	Full	0	-50.99	Pass
			High range	Full	0	-51.22	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20MHz	Low range	Full	0	-50.59	Pass
			Mid range	Full	0	-50.69	Pass
			High range	Full	0	-50.51	Pass



3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
			Full	0	PUMAX	Pass		

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass



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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

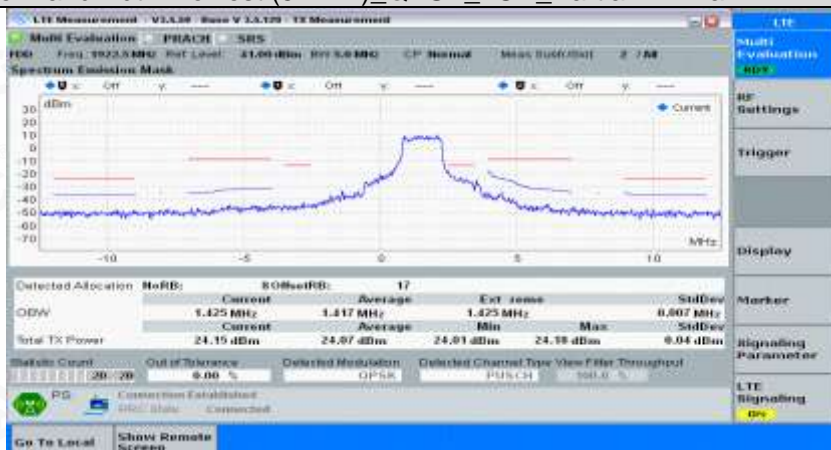
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QPSK



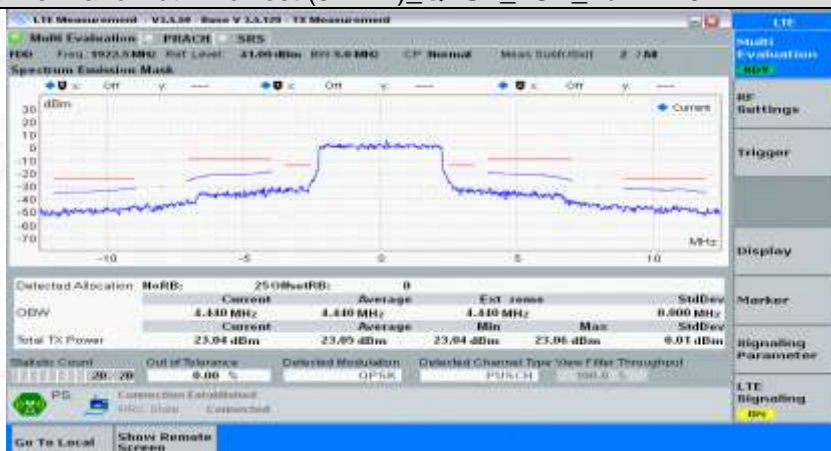
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QPSK

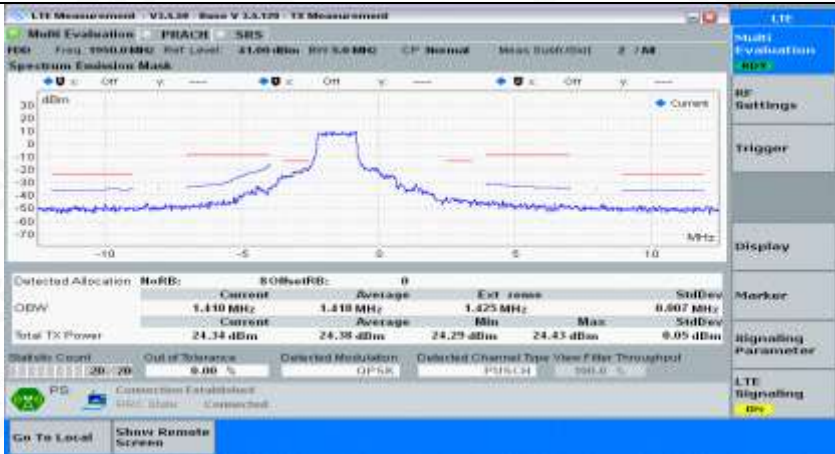
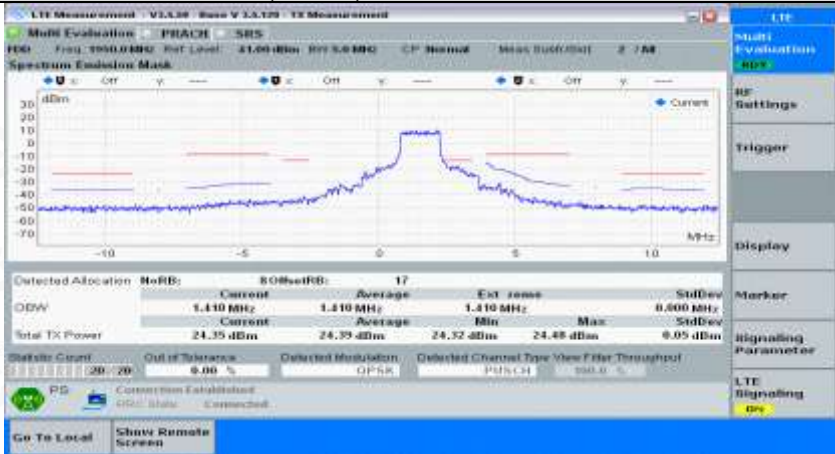
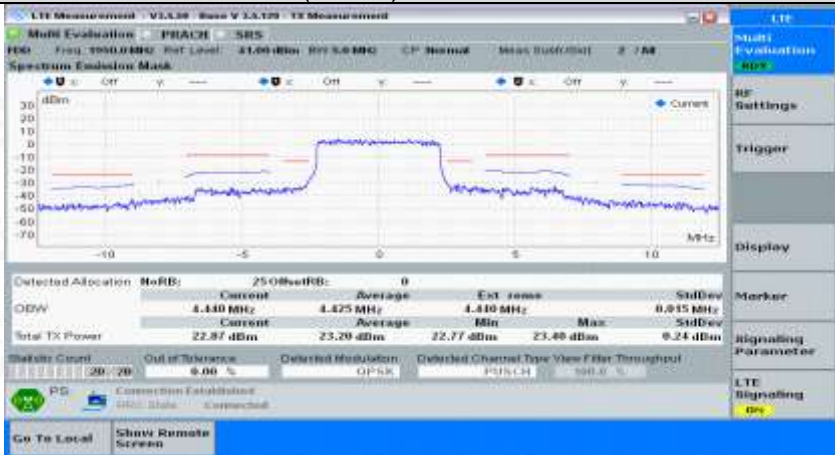


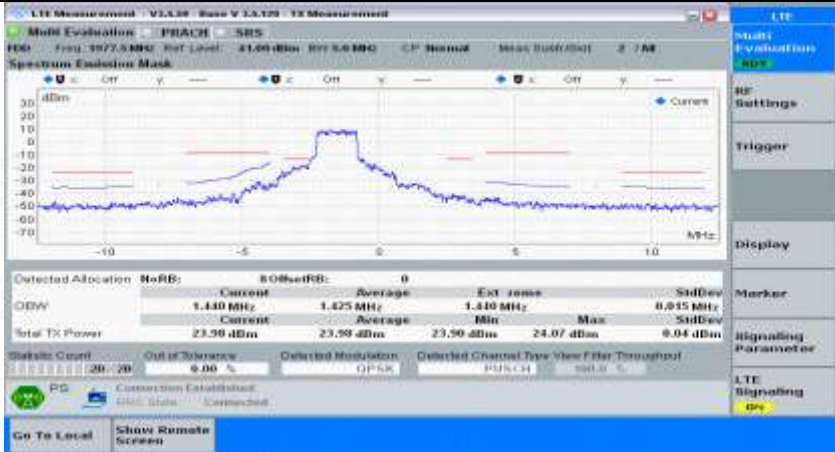
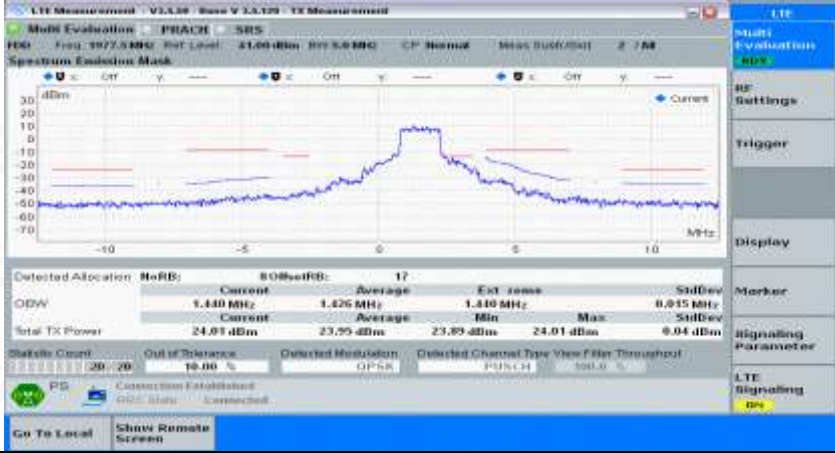
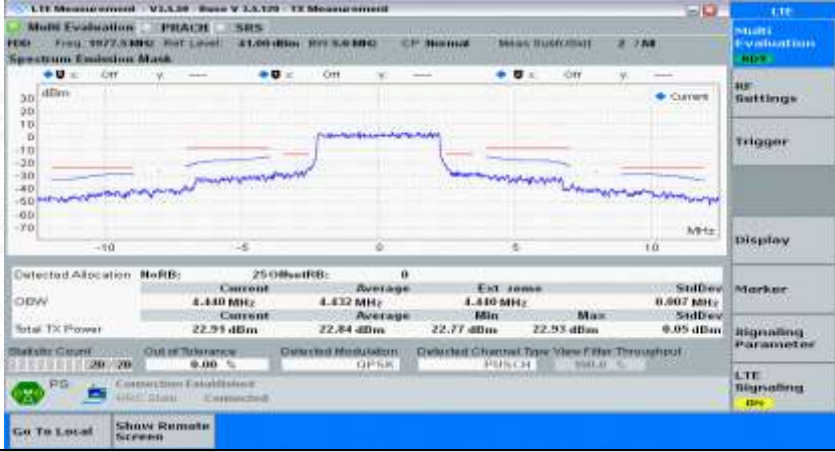
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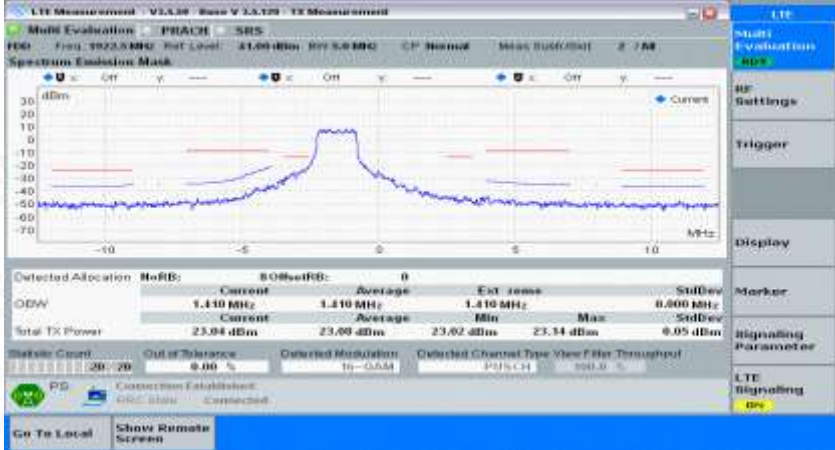
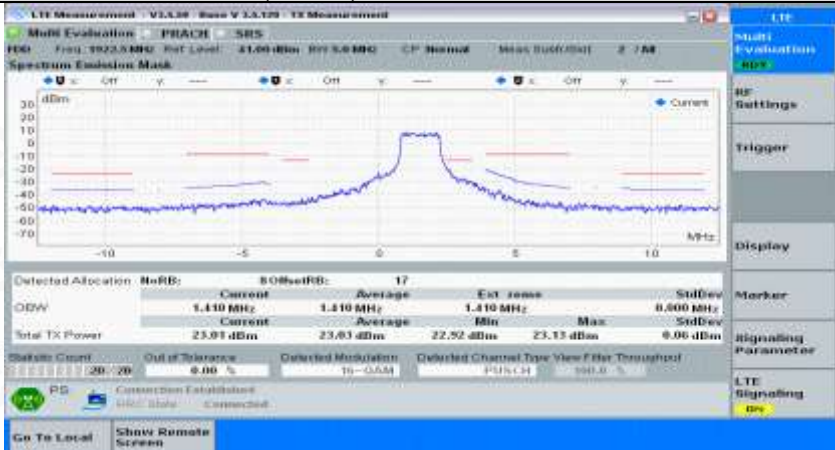
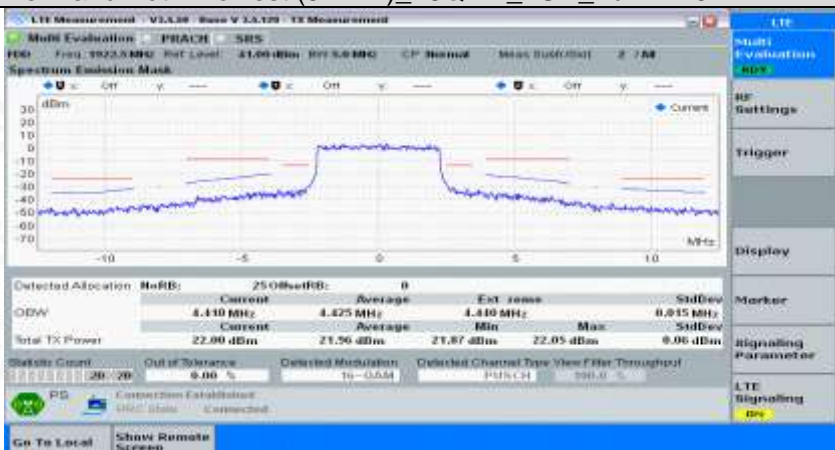
QPSK

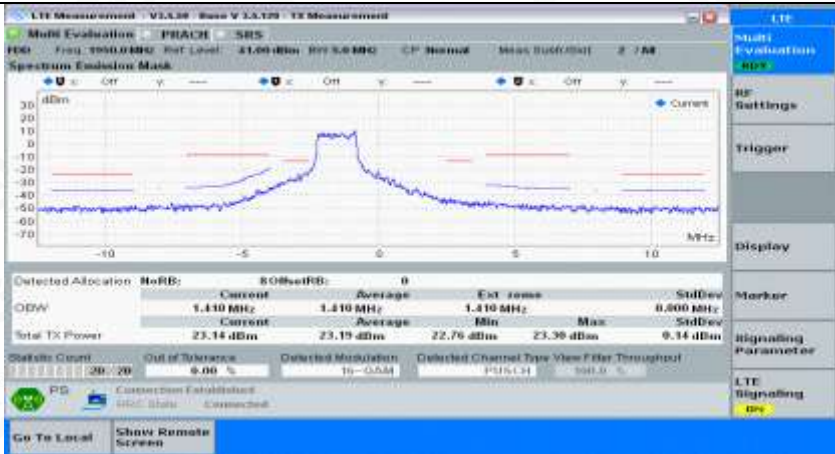
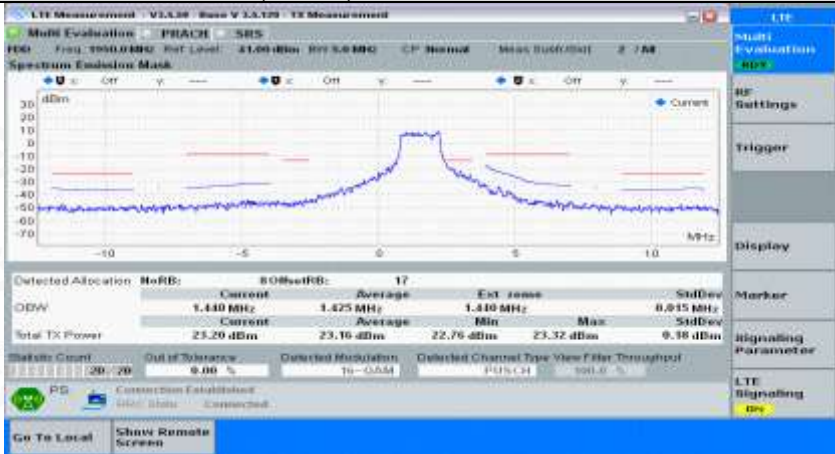
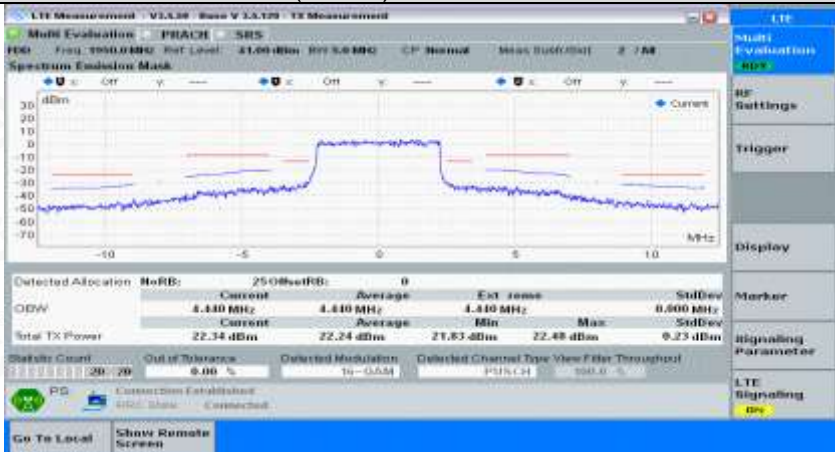


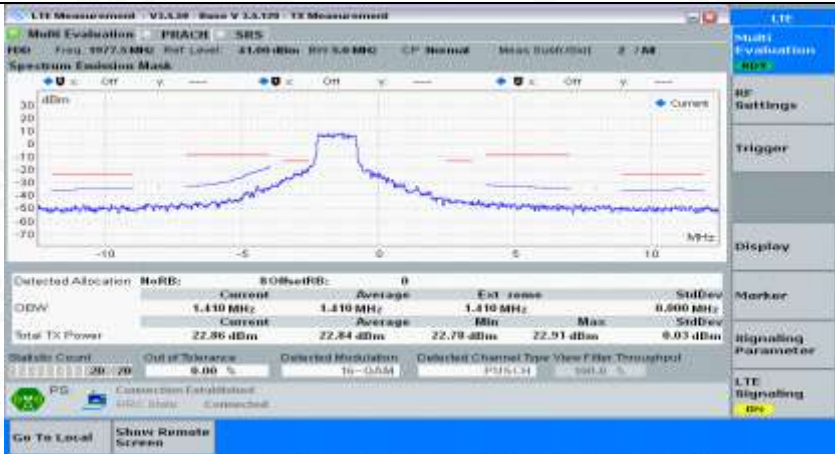
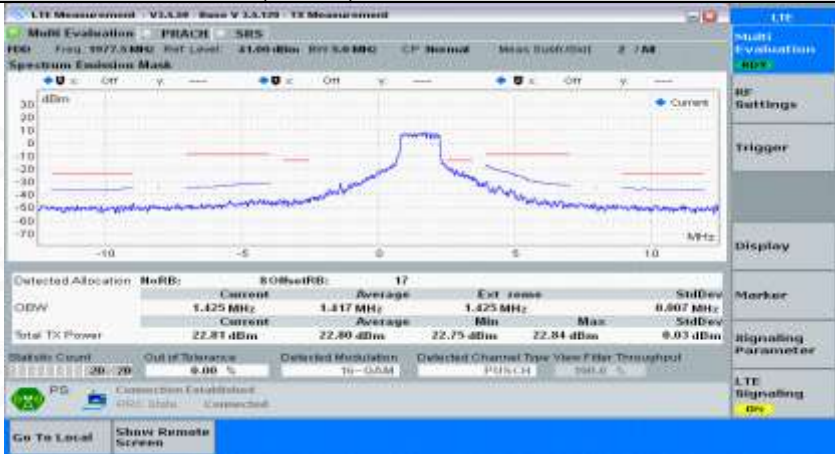
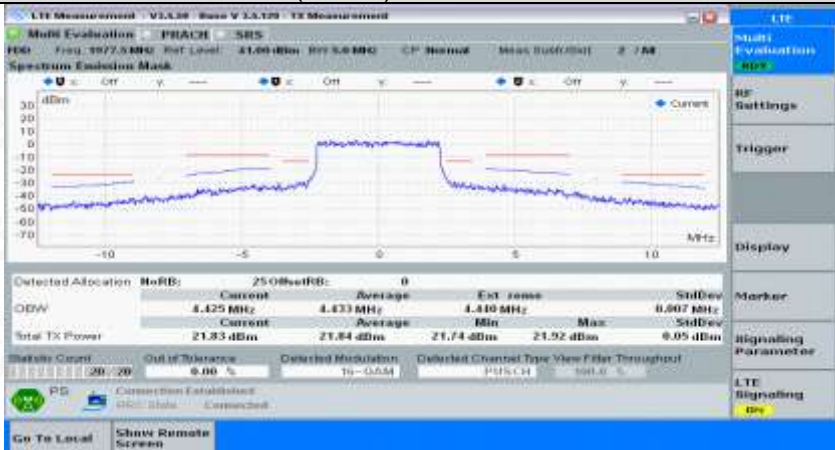
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

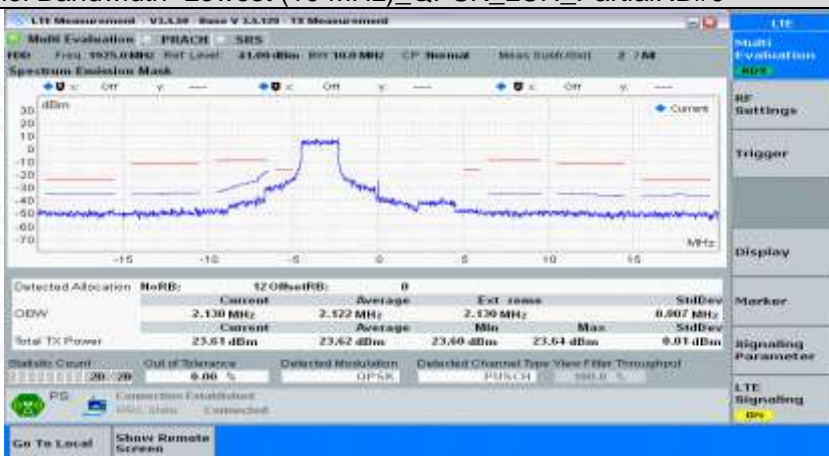
16QAM	
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK

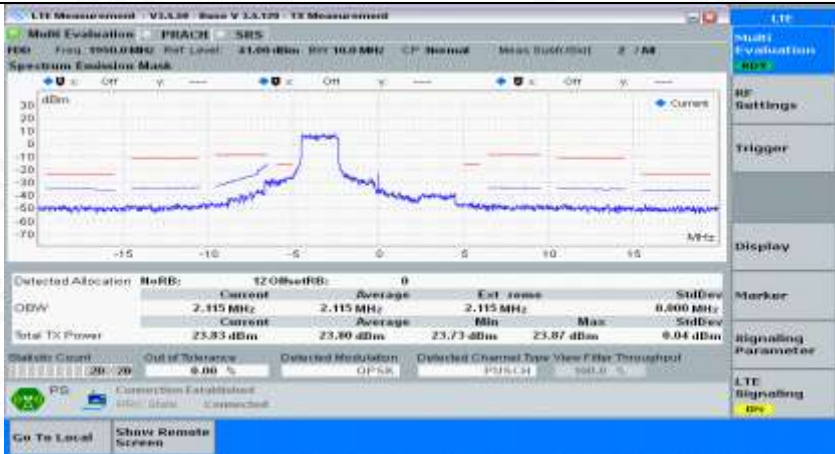
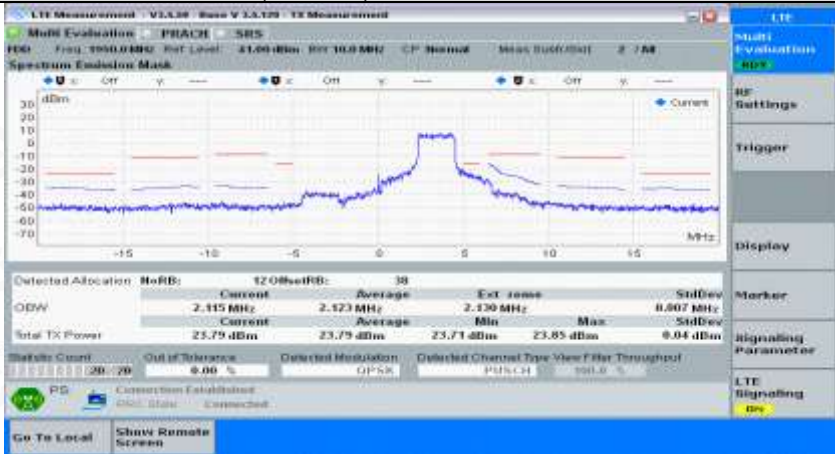



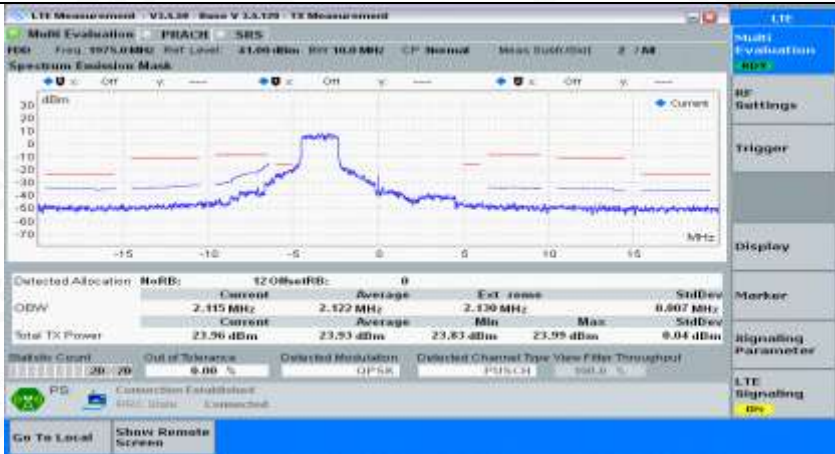
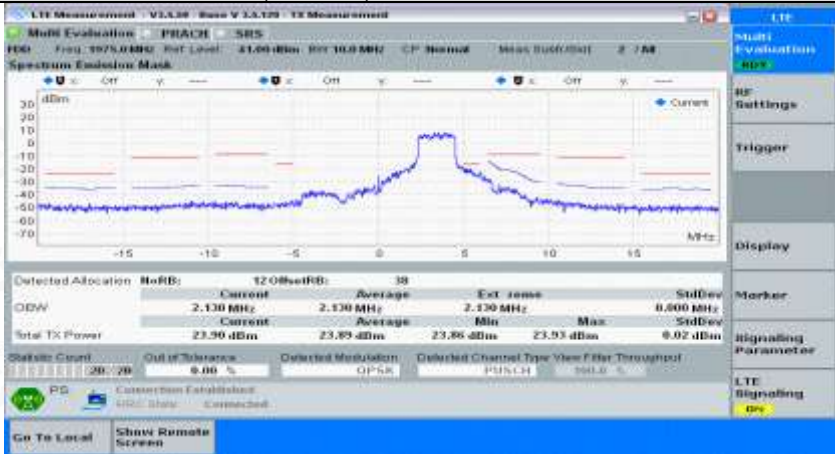
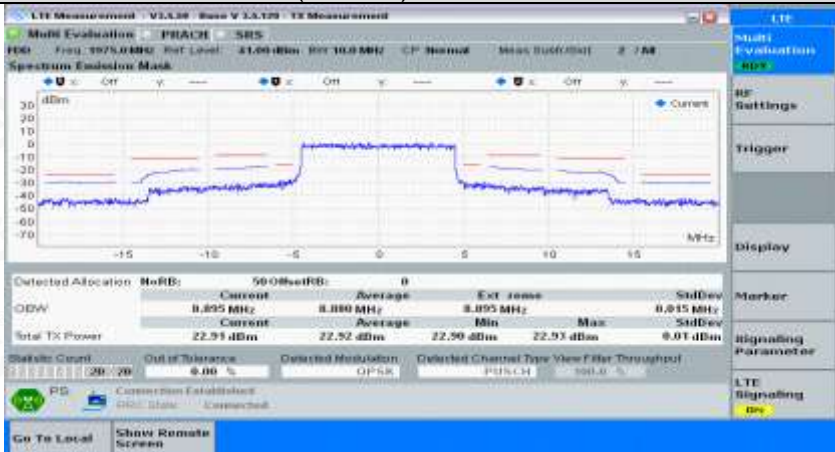
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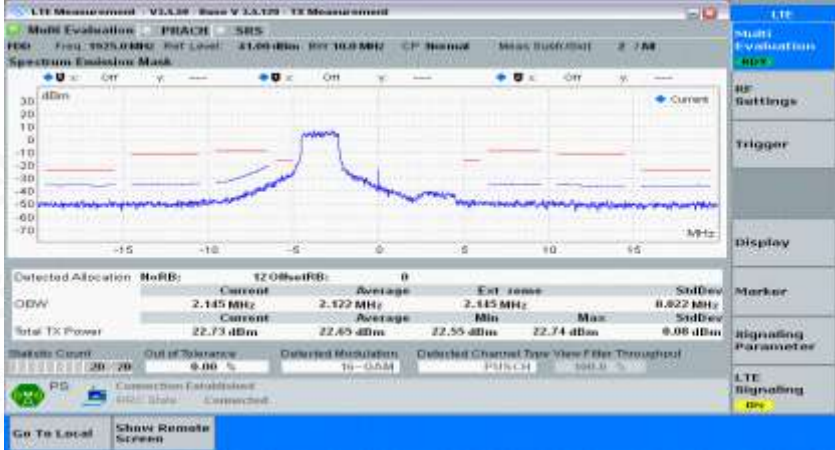
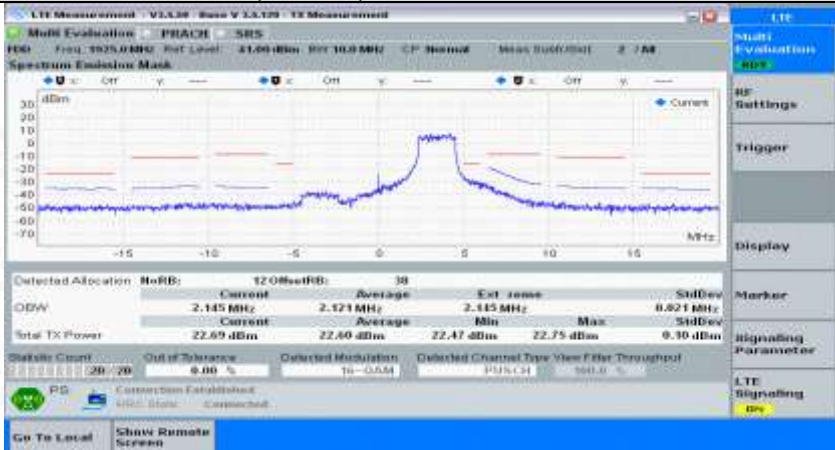
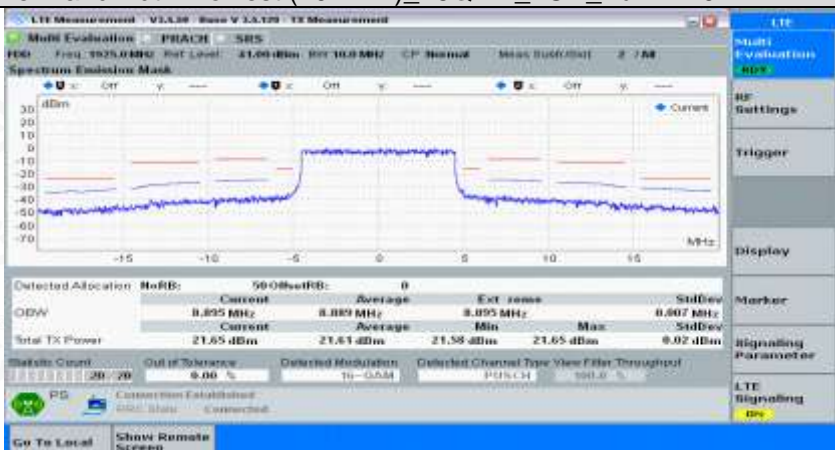
QPSK

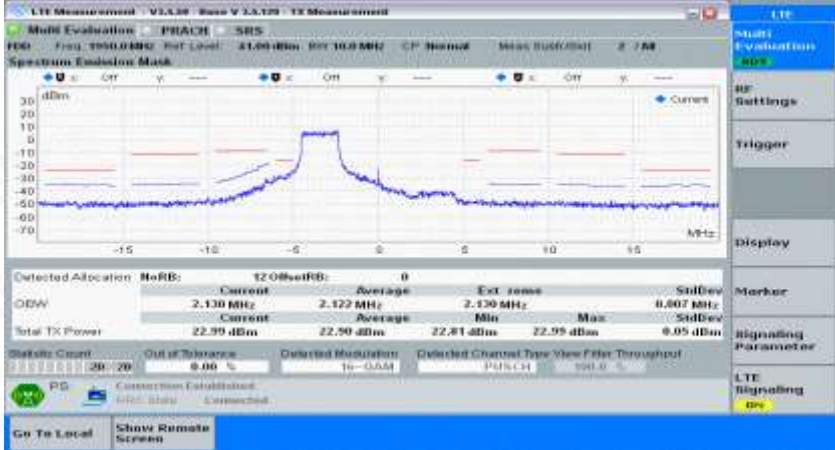
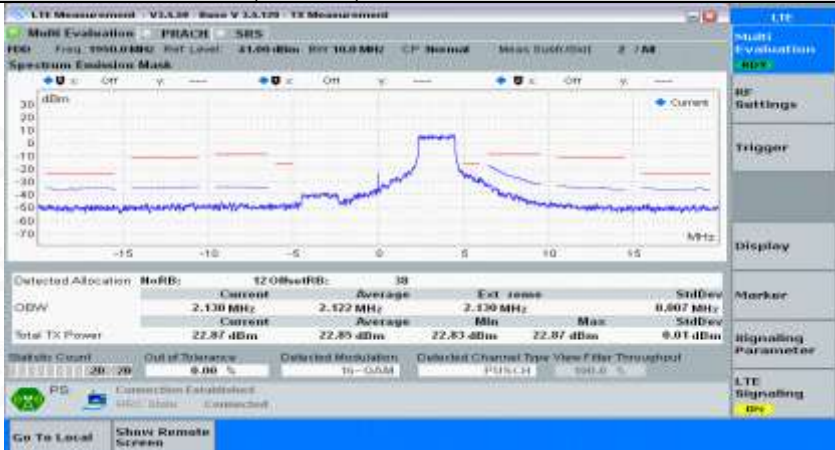
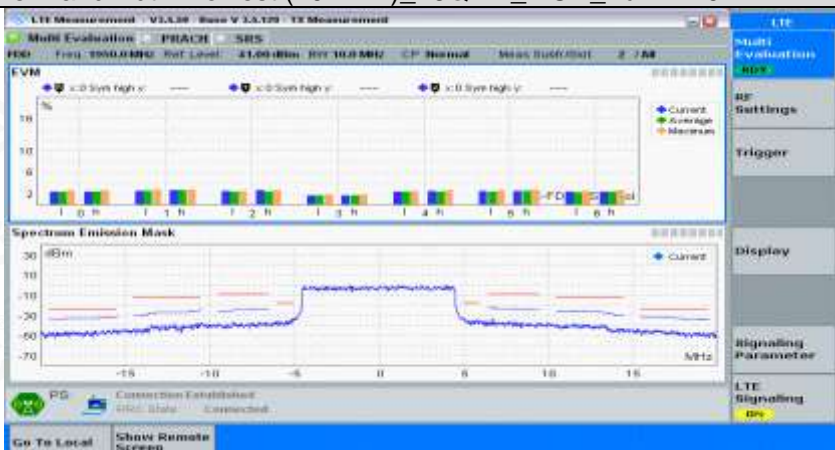


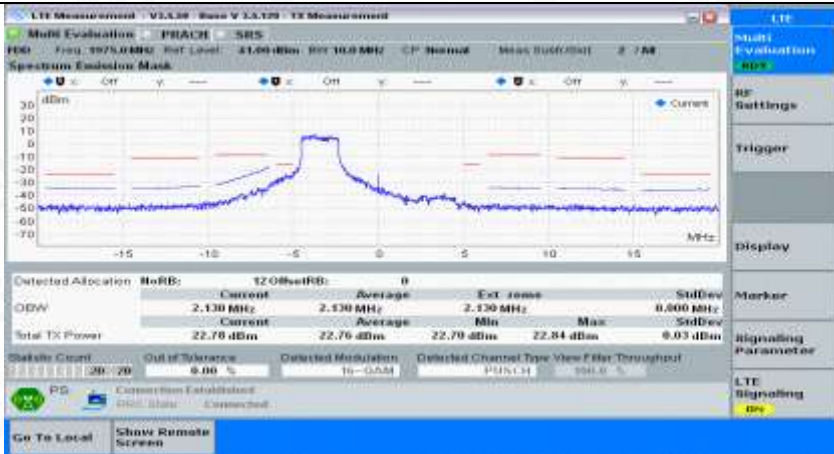
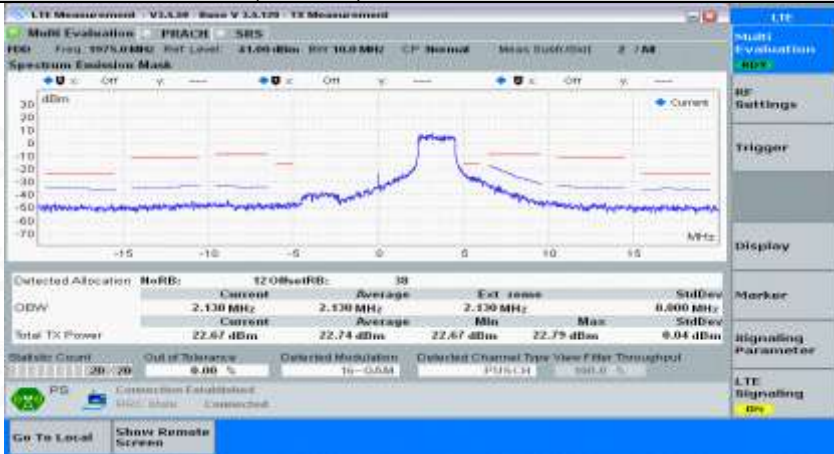
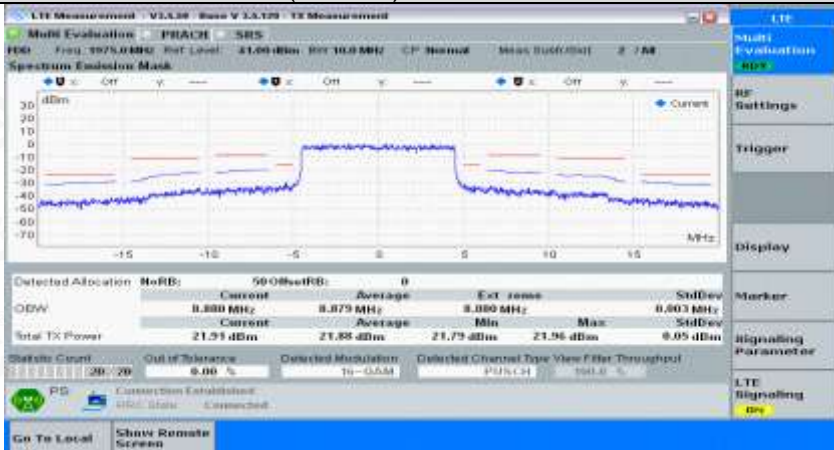
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

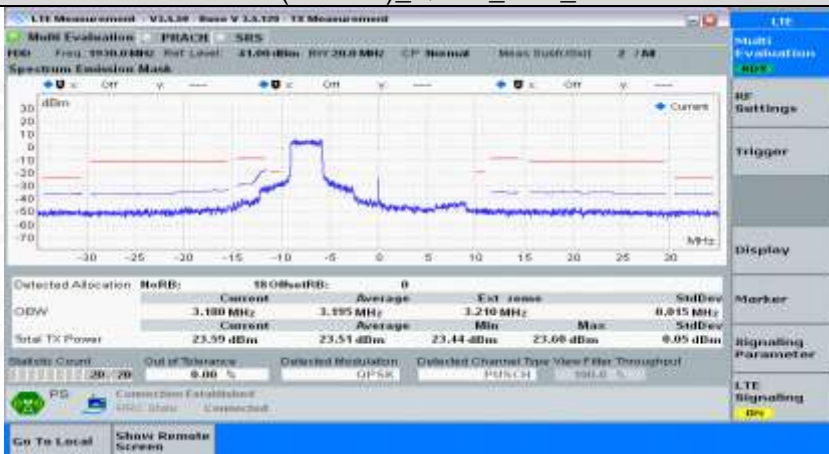
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	



Channel Bandwidth=Highest (20 MHz)

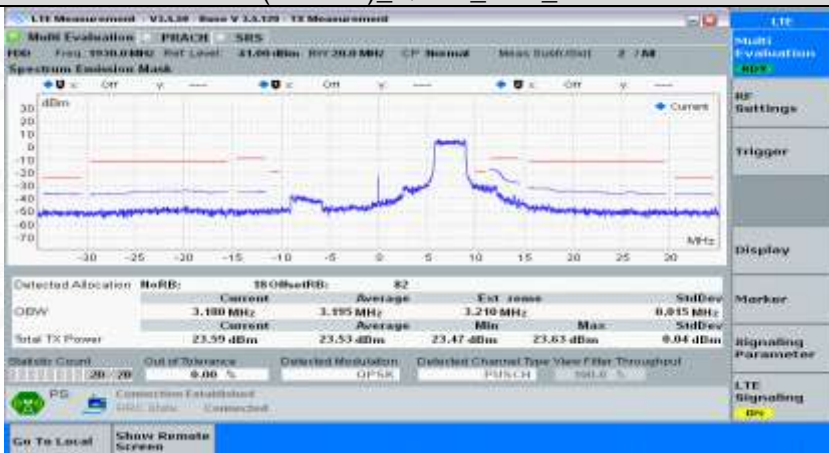
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

QPSK

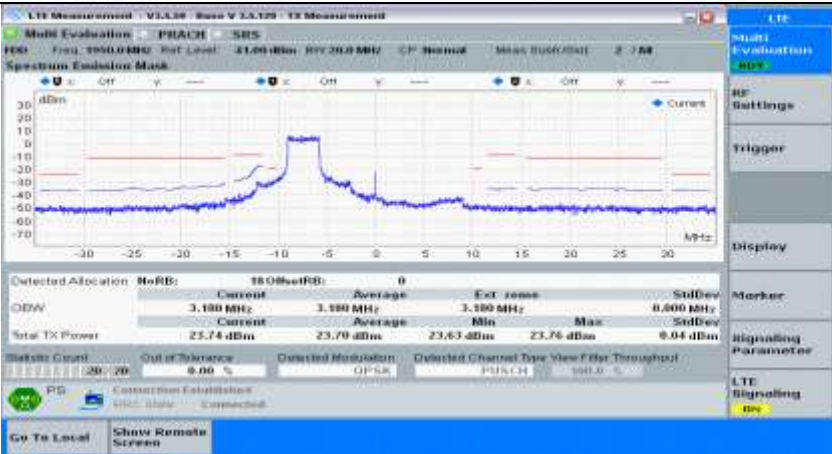
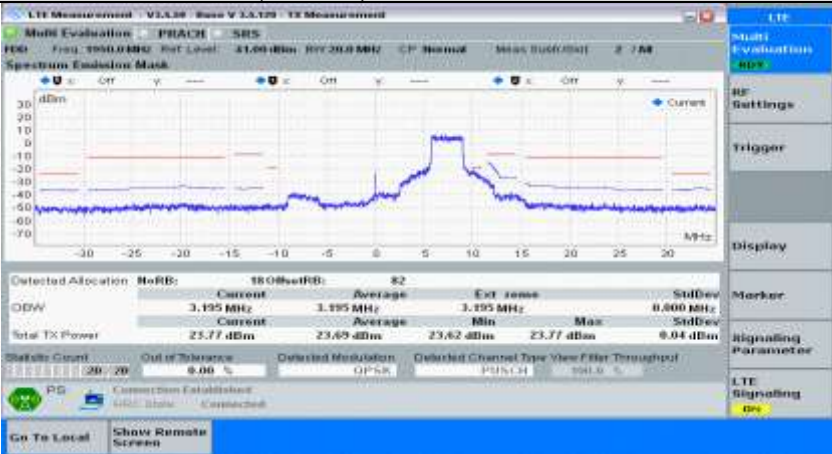
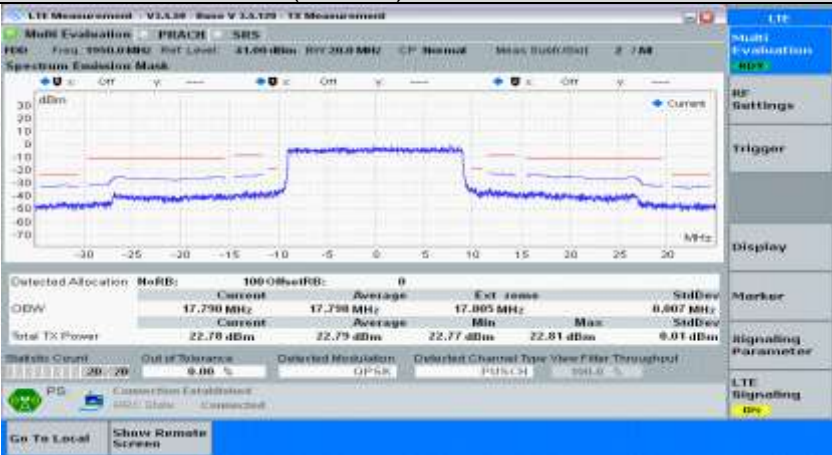


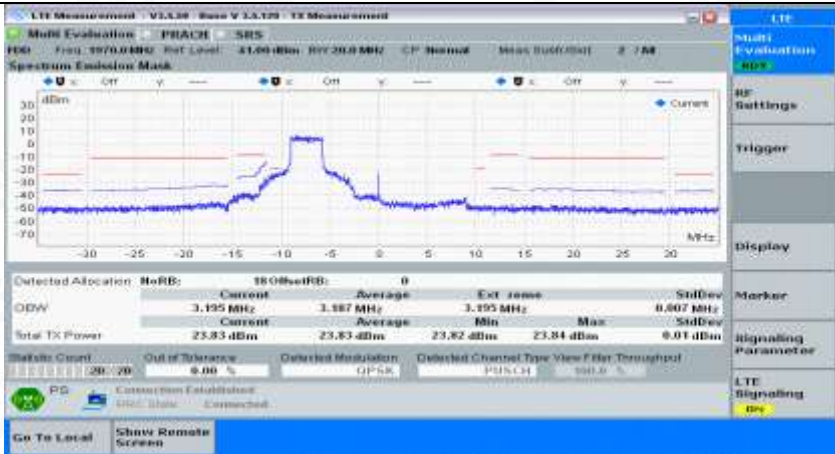
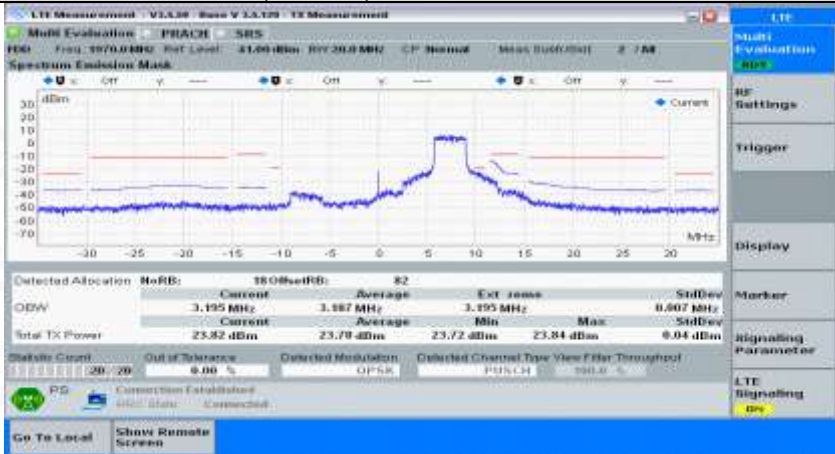
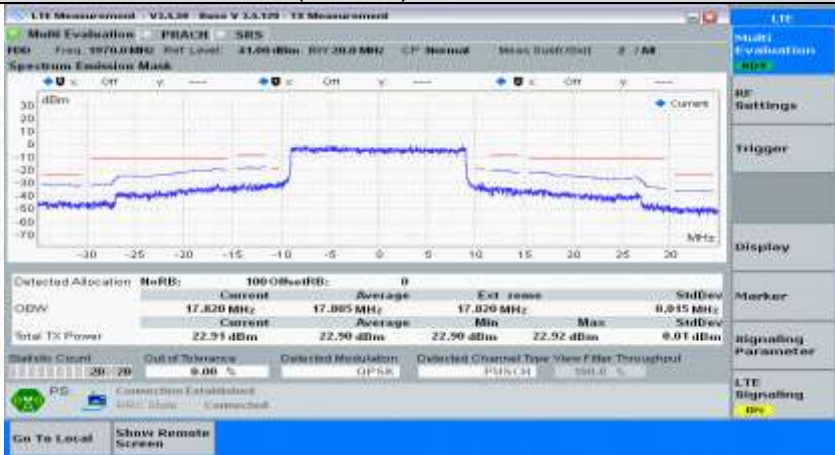
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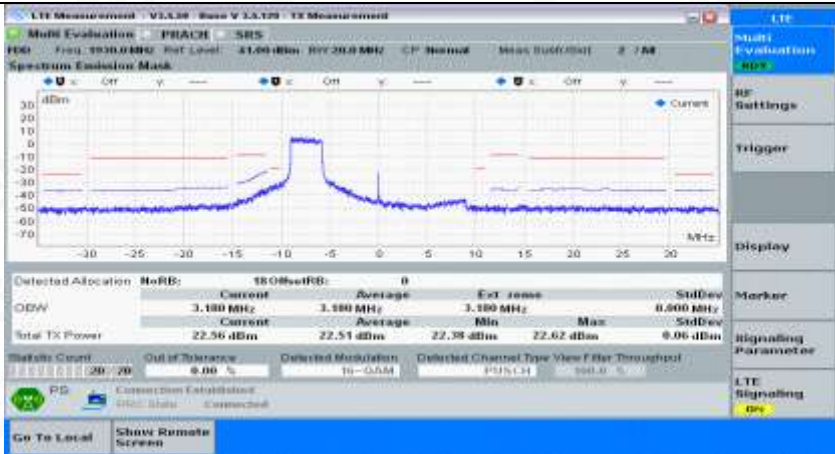
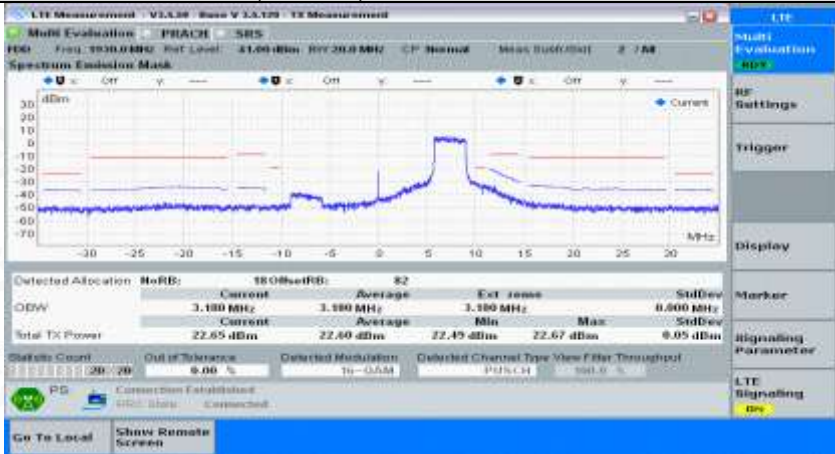
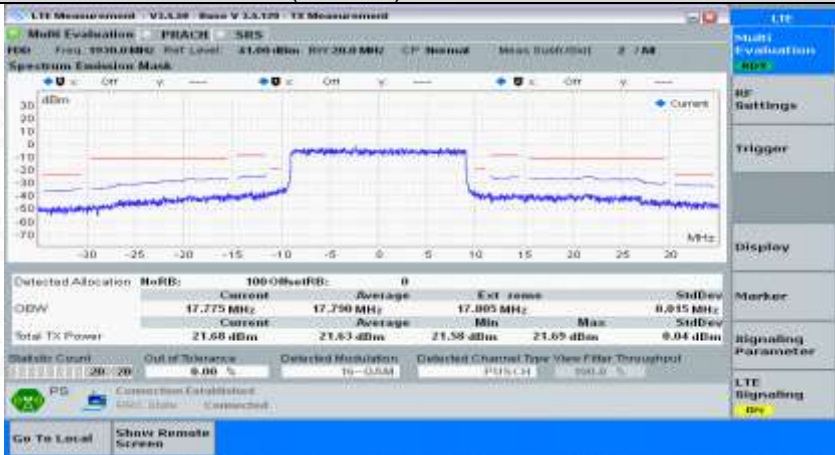
QPSK

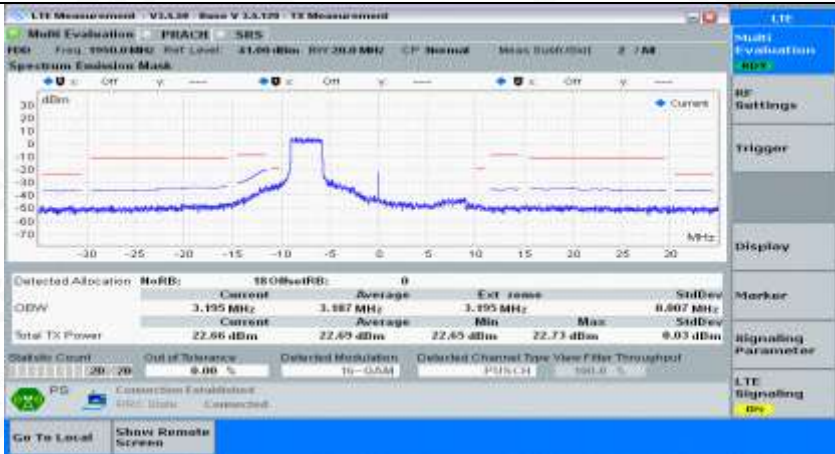
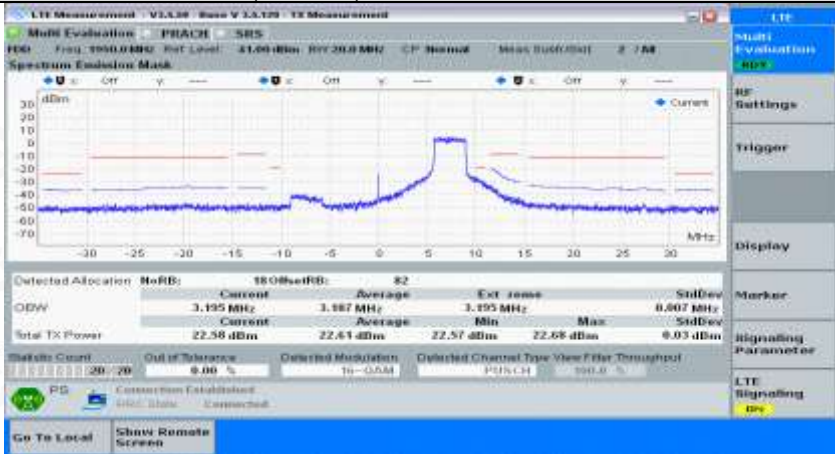
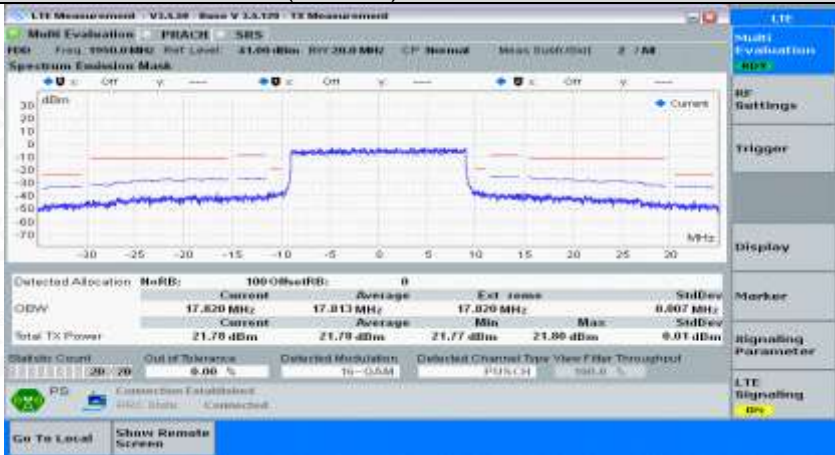


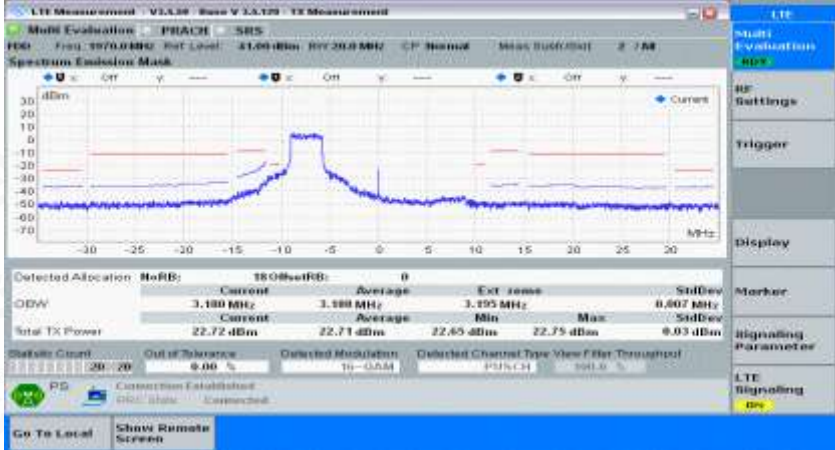
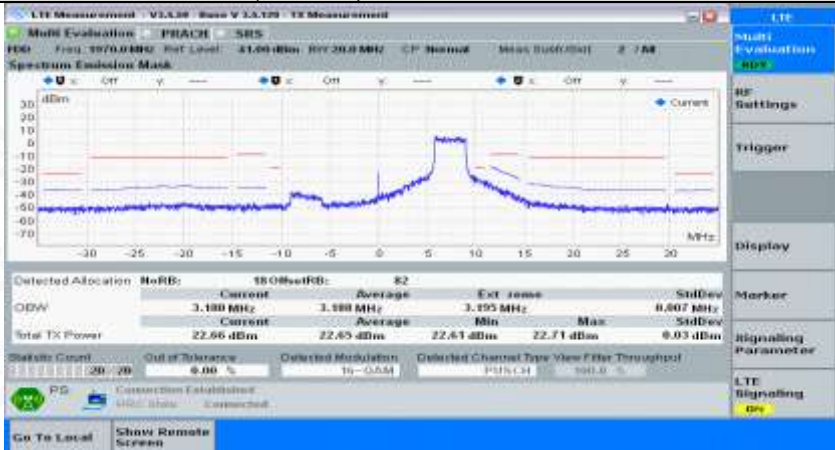
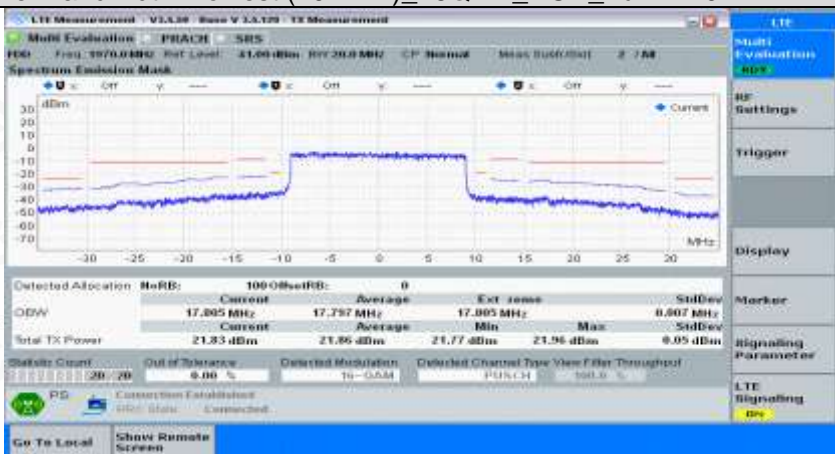
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	



4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full			0	PUMAX	Pass	
	16QAM		Low range	Partial	0	PUMAX	Pass
max		PUMAX			Pass		



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E-mail: agc@agc-cert.com

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				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
					Full	0	PUMAX
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
					Full	0	PUMAX

Channel Bandwidth=Highest (20 MHz)




Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	



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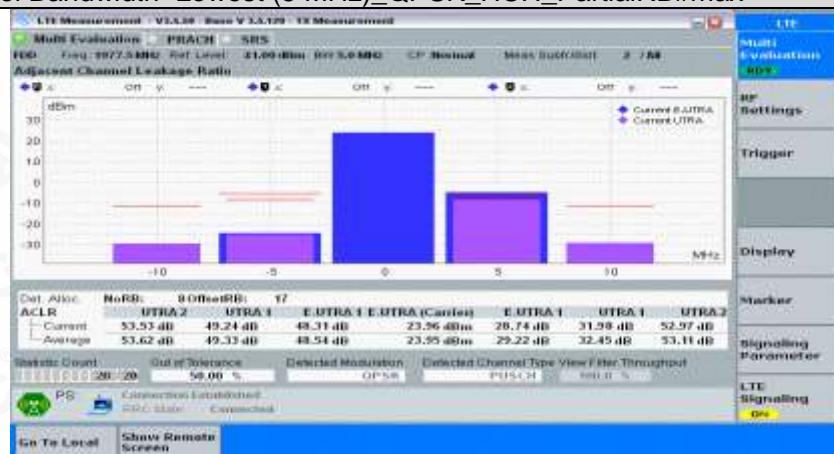
QPSK	
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0



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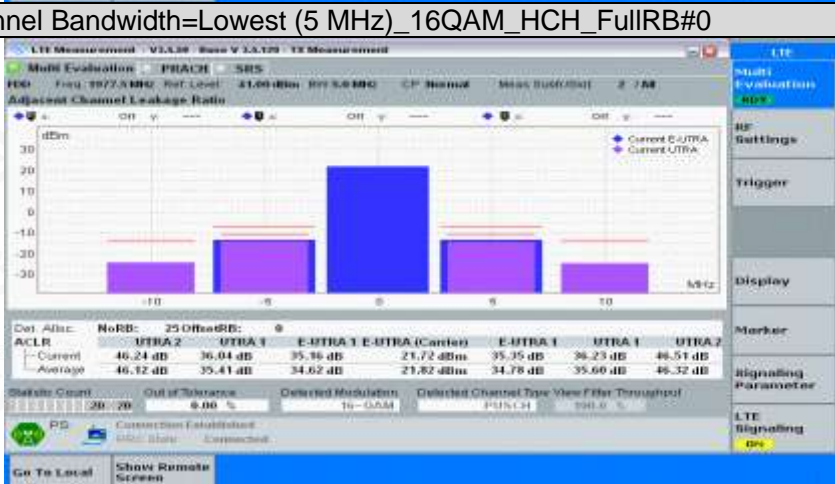
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

16QAM	 <div><div>LTE</div><div>Multi Evaluation</div><div>RF Settings</div><div>Trigger</div><div>Display</div><div>Signaling Parameter</div><div>LTE Signaling</div></div>																								
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max																									
16QAM	 <div><div>LTE</div><div>Multi Evaluation</div><div>RF Settings</div><div>Trigger</div><div>Display</div><div>Signaling Parameter</div><div>LTE Signaling</div></div>																								
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0																									
16QAM	 <div><div>LTE</div><div>Multi Evaluation</div><div>RF Settings</div><div>Trigger</div><div>Display</div><div>Marker</div><div>Signaling Parameter</div><div>LTE Signaling</div></div> <table><tr><td>ACL</td><td>UTRA 2</td><td>UTRA 1</td><td>E-UTRA 1</td><td>E-UTRA 1 (Center)</td><td>E-UTRA 1</td><td>UTRA 1</td><td>UTRA 2</td></tr><tr><td>Current</td><td>49.41 dB</td><td>38.83 dB</td><td>38.05 dB</td><td>21.82 dBm</td><td>37.82 dB</td><td>38.51 dB</td><td>48.34 dB</td></tr><tr><td>Average</td><td>49.09 dB</td><td>38.88 dB</td><td>38.07 dB</td><td>21.51 dBm</td><td>37.77 dB</td><td>38.51 dB</td><td>48.57 dB</td></tr></table>	ACL	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Center)	E-UTRA 1	UTRA 1	UTRA 2	Current	49.41 dB	38.83 dB	38.05 dB	21.82 dBm	37.82 dB	38.51 dB	48.34 dB	Average	49.09 dB	38.88 dB	38.07 dB	21.51 dBm	37.77 dB	38.51 dB	48.57 dB
ACL	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Center)	E-UTRA 1	UTRA 1	UTRA 2																		
Current	49.41 dB	38.83 dB	38.05 dB	21.82 dBm	37.82 dB	38.51 dB	48.34 dB																		
Average	49.09 dB	38.88 dB	38.07 dB	21.51 dBm	37.77 dB	38.51 dB	48.57 dB																		
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0																									

16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



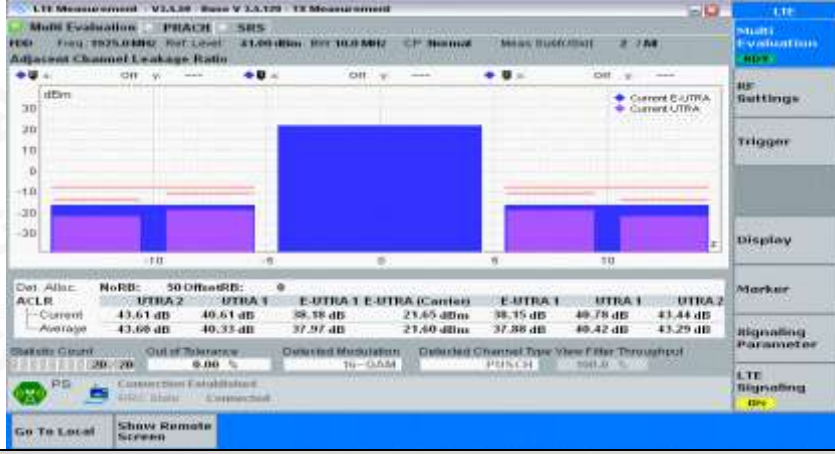


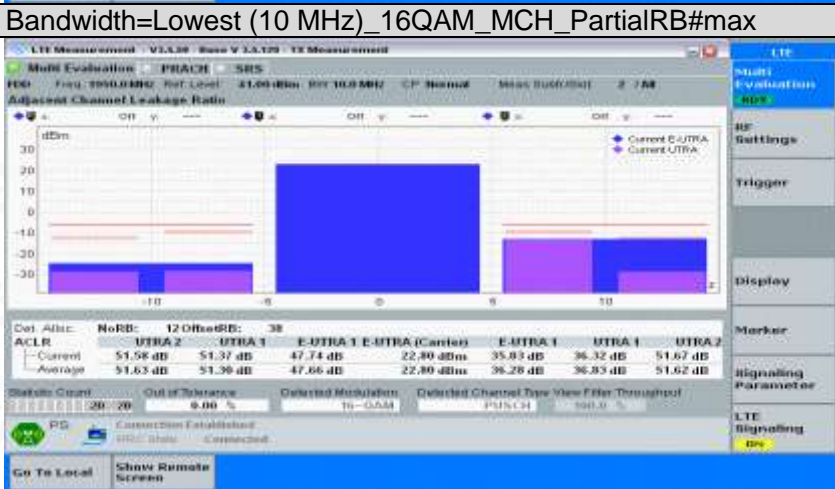
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QPSK



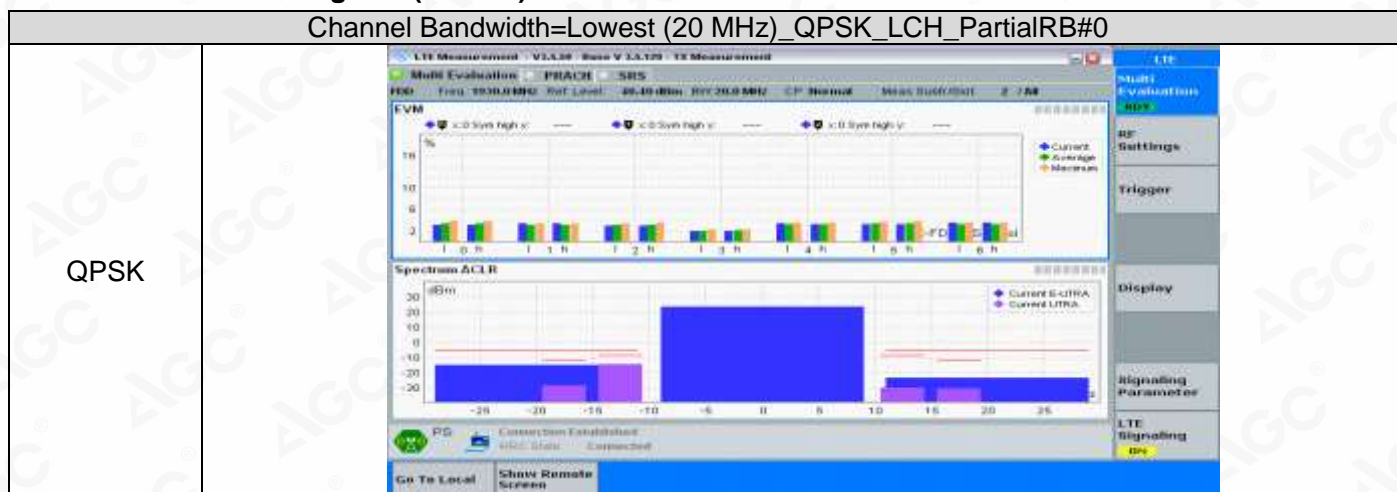
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16QAM		<ul style="list-style-type: none">LTEMulti-EvaluationRF SettingsTriggerDisplaySignalling ParameterLTE Signalling																																	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max																																			
16QAM		<ul style="list-style-type: none">LTEMulti-EvaluationRF SettingsTriggerDisplaySignalling ParameterLTE Signalling																																	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0																																			
16QAM	 <table data-bbox="501 1509 1315 1576"><tr><th>ACL</th><th>NoRB</th><th>50 OffRB</th><th>50</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA 1 (Center)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>43.61 dB</td><td>40.61 dB</td><td>38.18 dB</td><td>21.65 dBm</td><td>38.15 dB</td><td>40.78 dB</td><td>43.44 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>43.68 dB</td><td>40.33 dB</td><td>37.97 dB</td><td>21.60 dBm</td><td>37.88 dB</td><td>40.42 dB</td><td>43.29 dB</td><td></td><td></td><td></td></tr></table>	ACL	NoRB	50 OffRB	50	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Center)	E-UTRA 1	UTRA 1	UTRA 2	Current	43.61 dB	40.61 dB	38.18 dB	21.65 dBm	38.15 dB	40.78 dB	43.44 dB				Average	43.68 dB	40.33 dB	37.97 dB	21.60 dBm	37.88 dB	40.42 dB	43.29 dB				<ul style="list-style-type: none">LTEMulti-EvaluationRF SettingsTriggerDisplayMarkerSignalling ParameterLTE Signalling
ACL	NoRB	50 OffRB	50	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Center)	E-UTRA 1	UTRA 1	UTRA 2																									
Current	43.61 dB	40.61 dB	38.18 dB	21.65 dBm	38.15 dB	40.78 dB	43.44 dB																												
Average	43.68 dB	40.33 dB	37.97 dB	21.60 dBm	37.88 dB	40.42 dB	43.29 dB																												
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0																																			

16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

Channel Bandwidth=Highest (20 MHz)




Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max






Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0






Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



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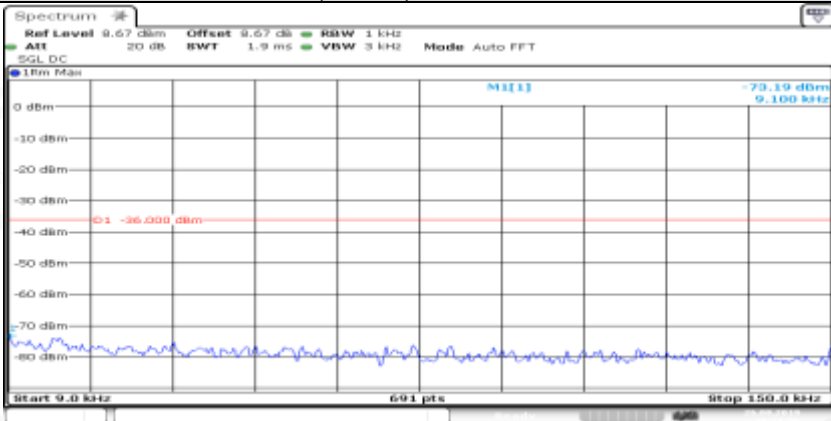
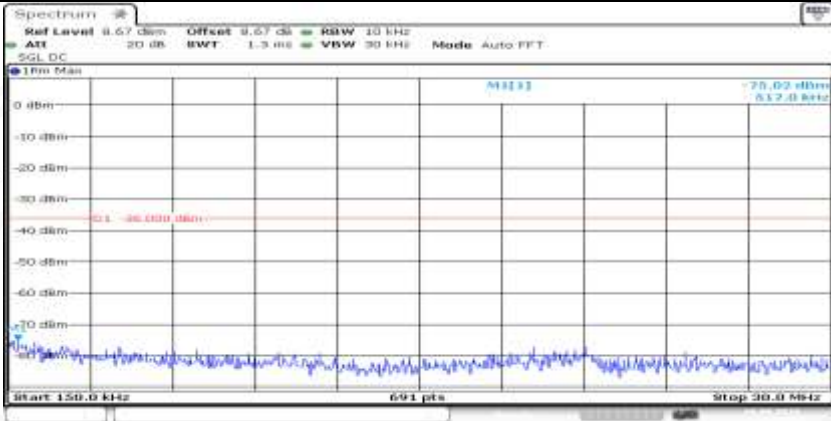
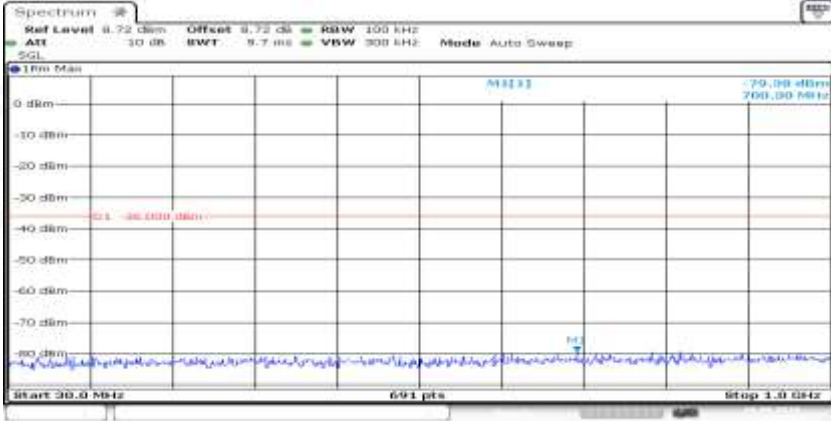
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Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#0	
General	
General	
General	



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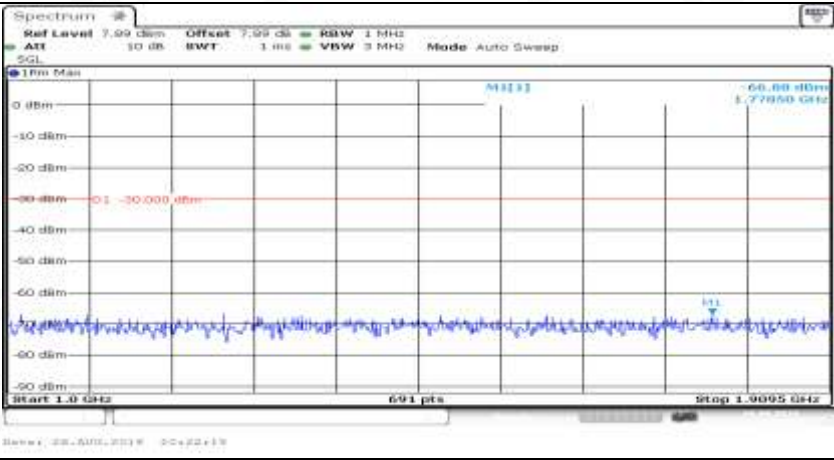
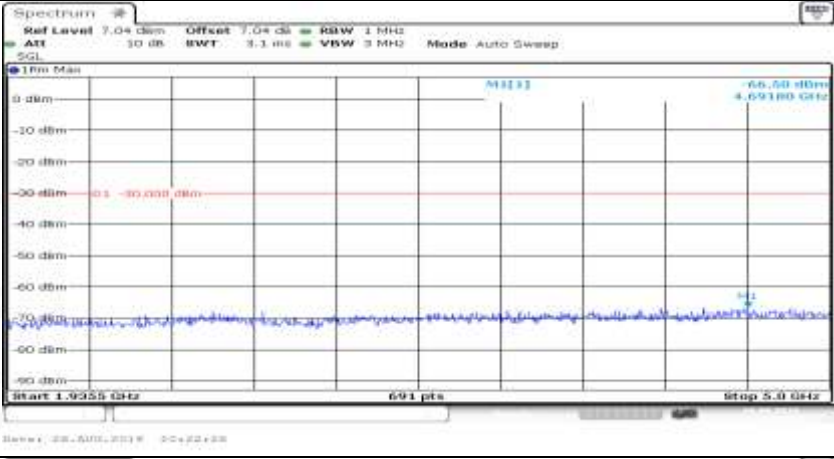
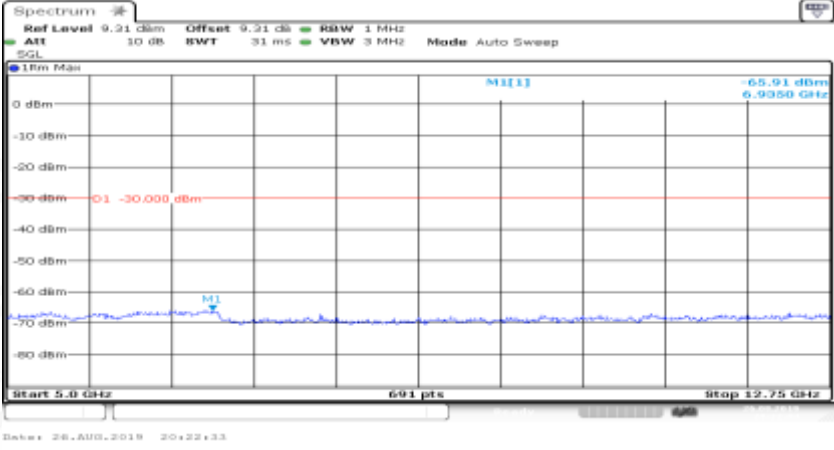
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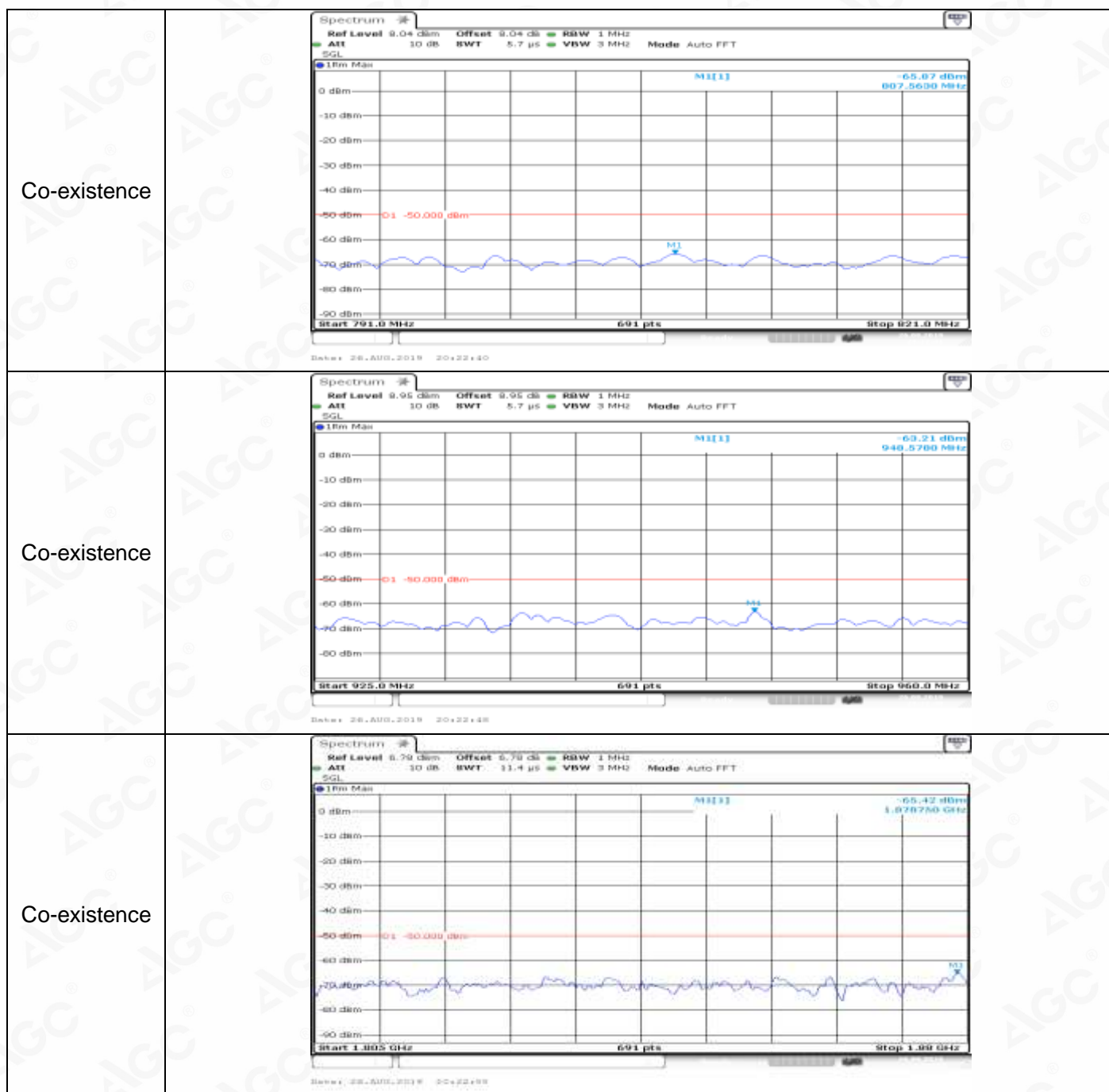
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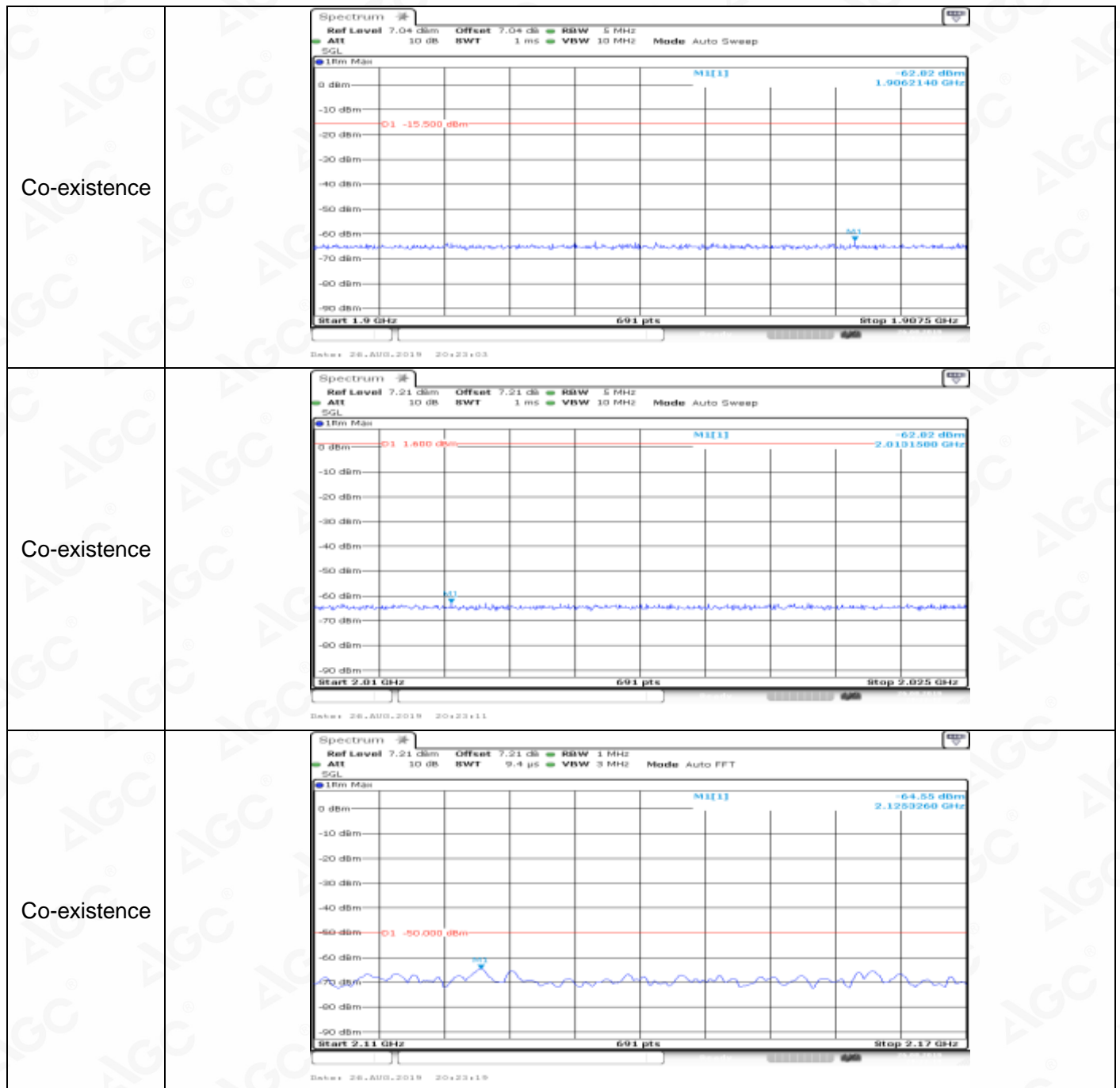
Tel: +86-755 2523 4088



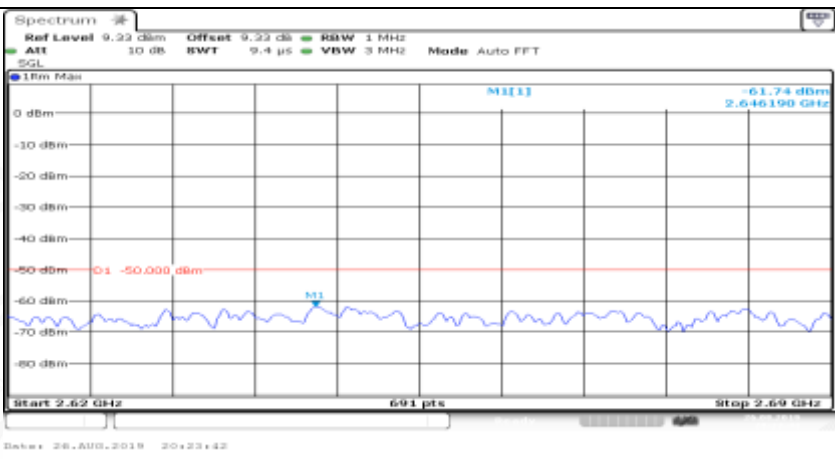
E-mail: agc@agc-cert.com

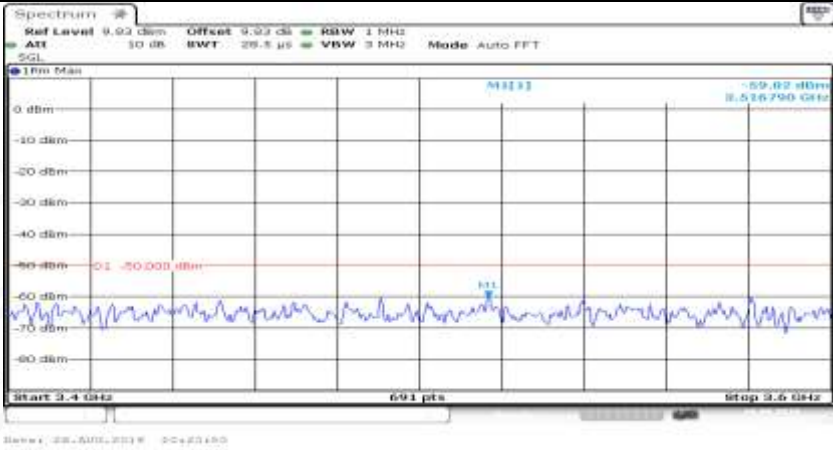
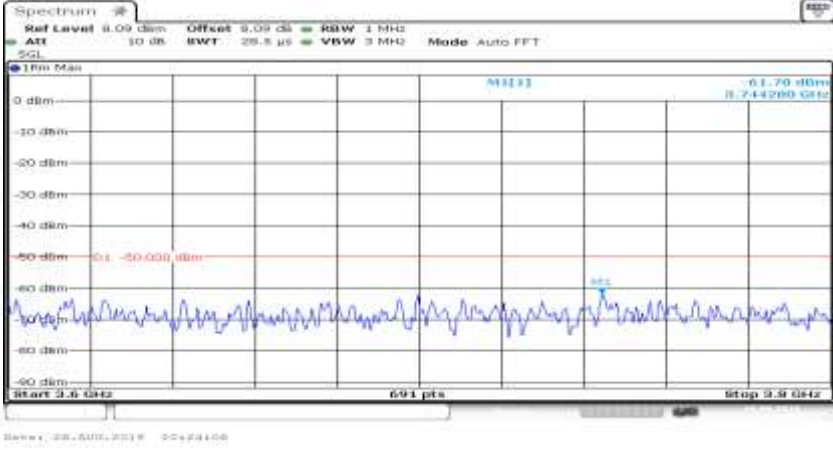
Service Hotline: 400 089 2118

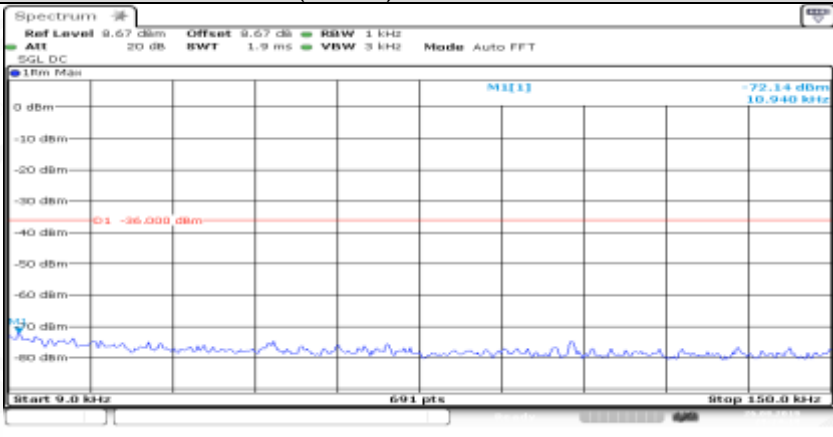
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General	
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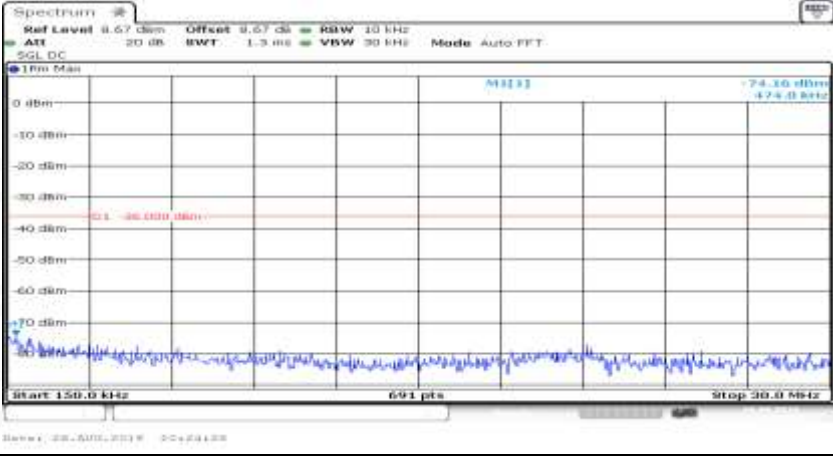
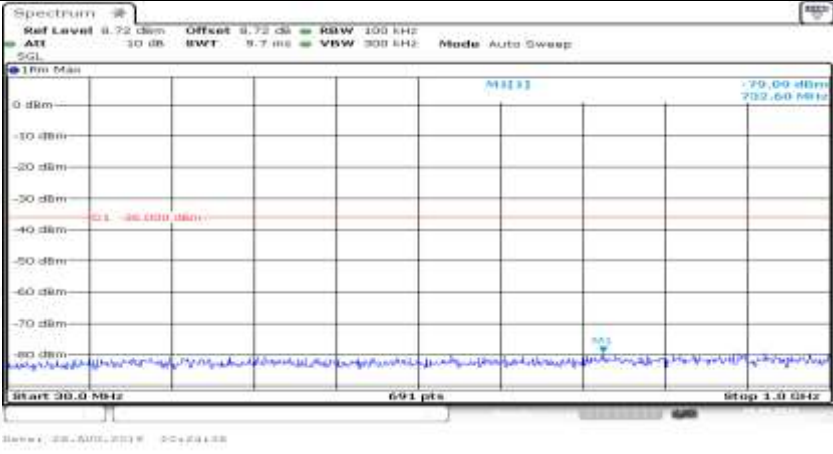
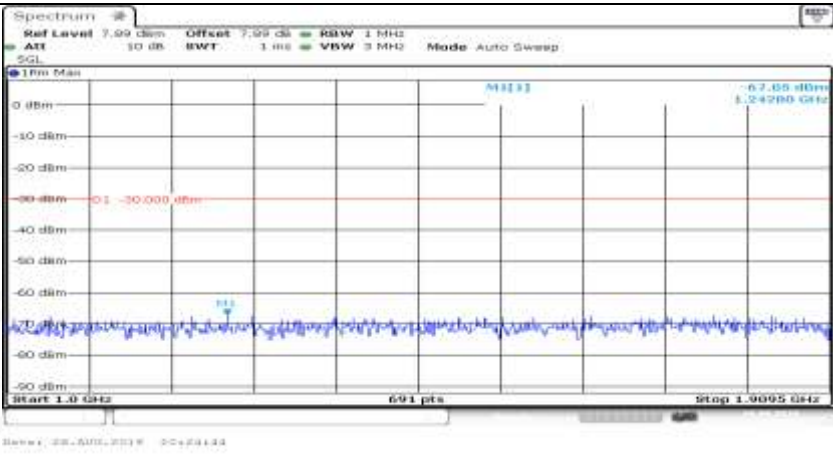




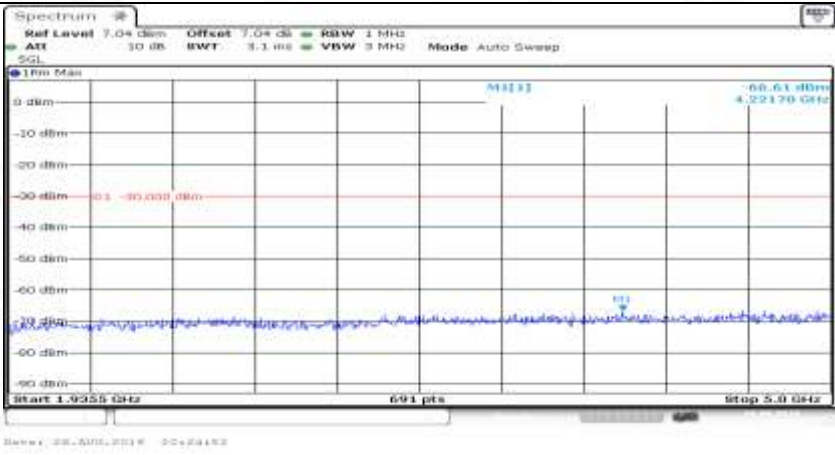
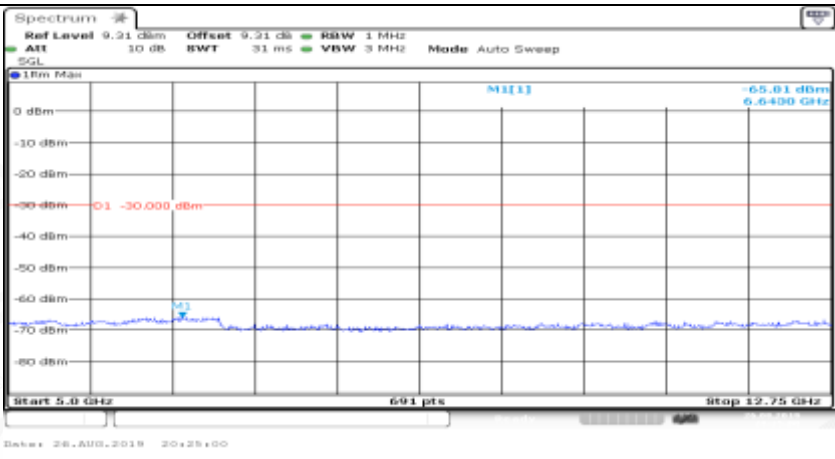
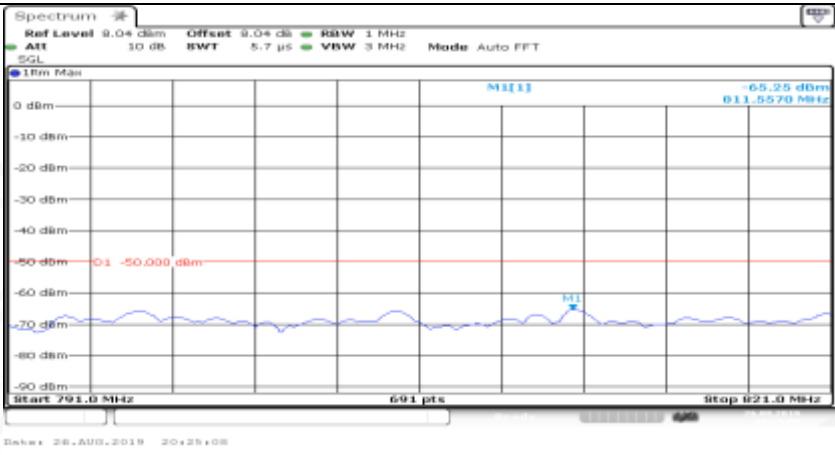
Co-existence	
Co-existence	
Co-existence	

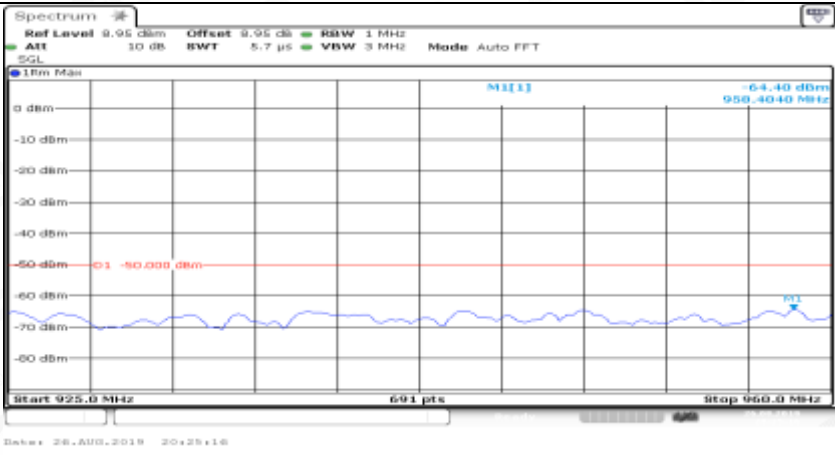

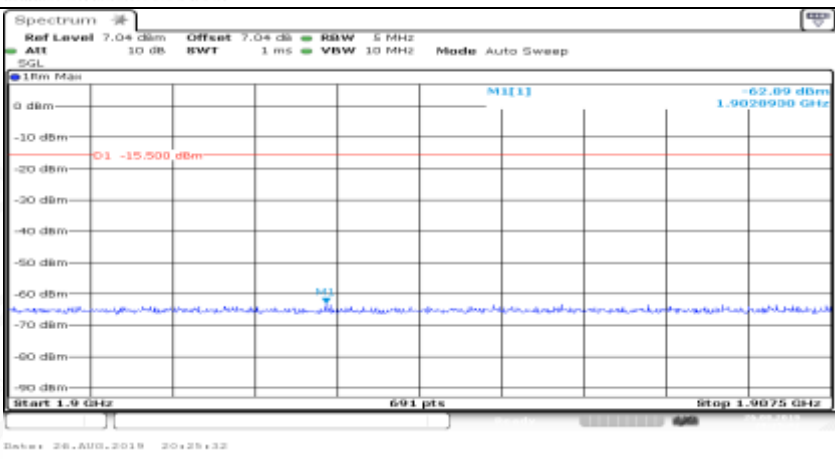
Co-existence	
Co-existence	
Additional	NA

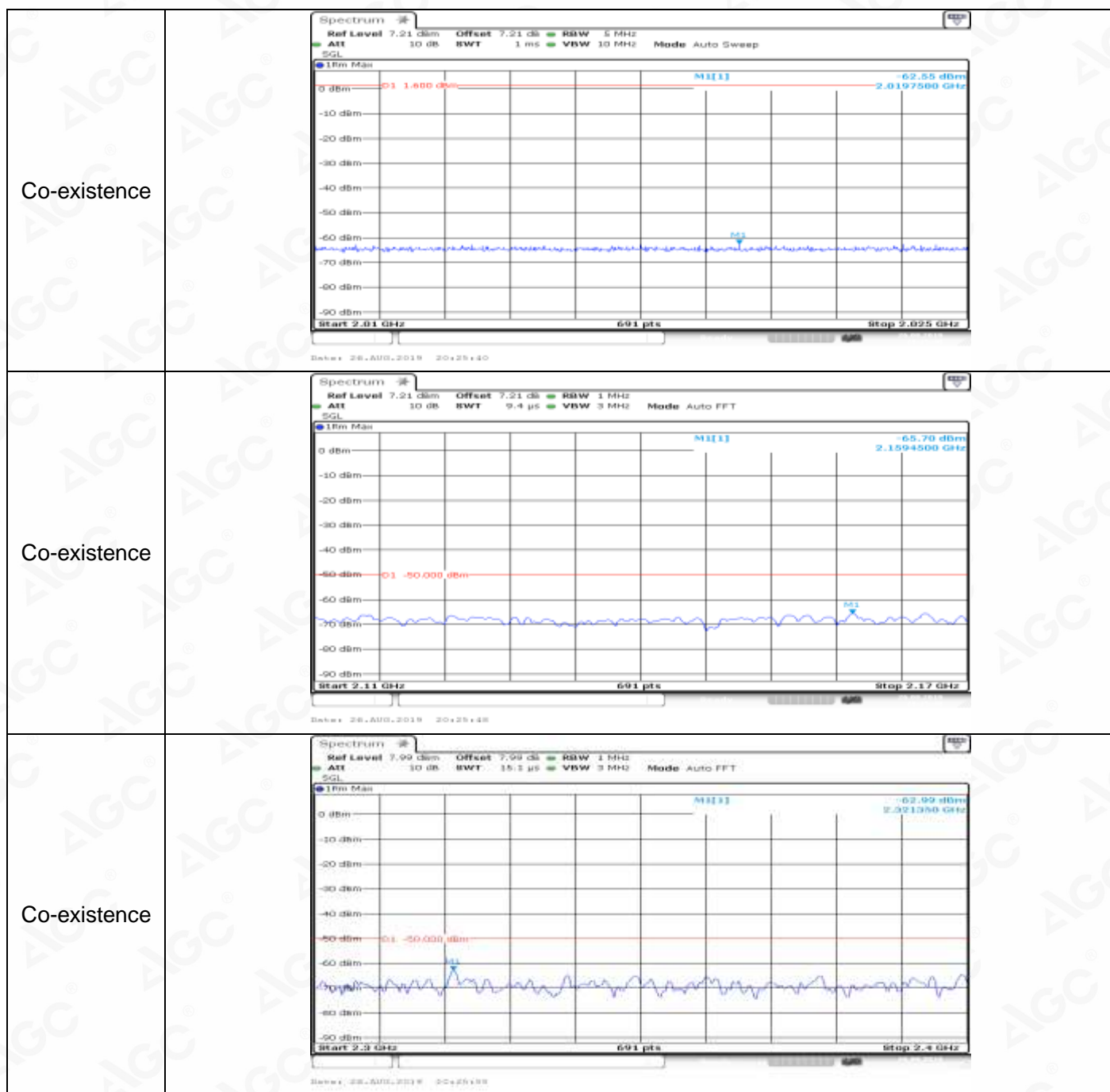
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General	

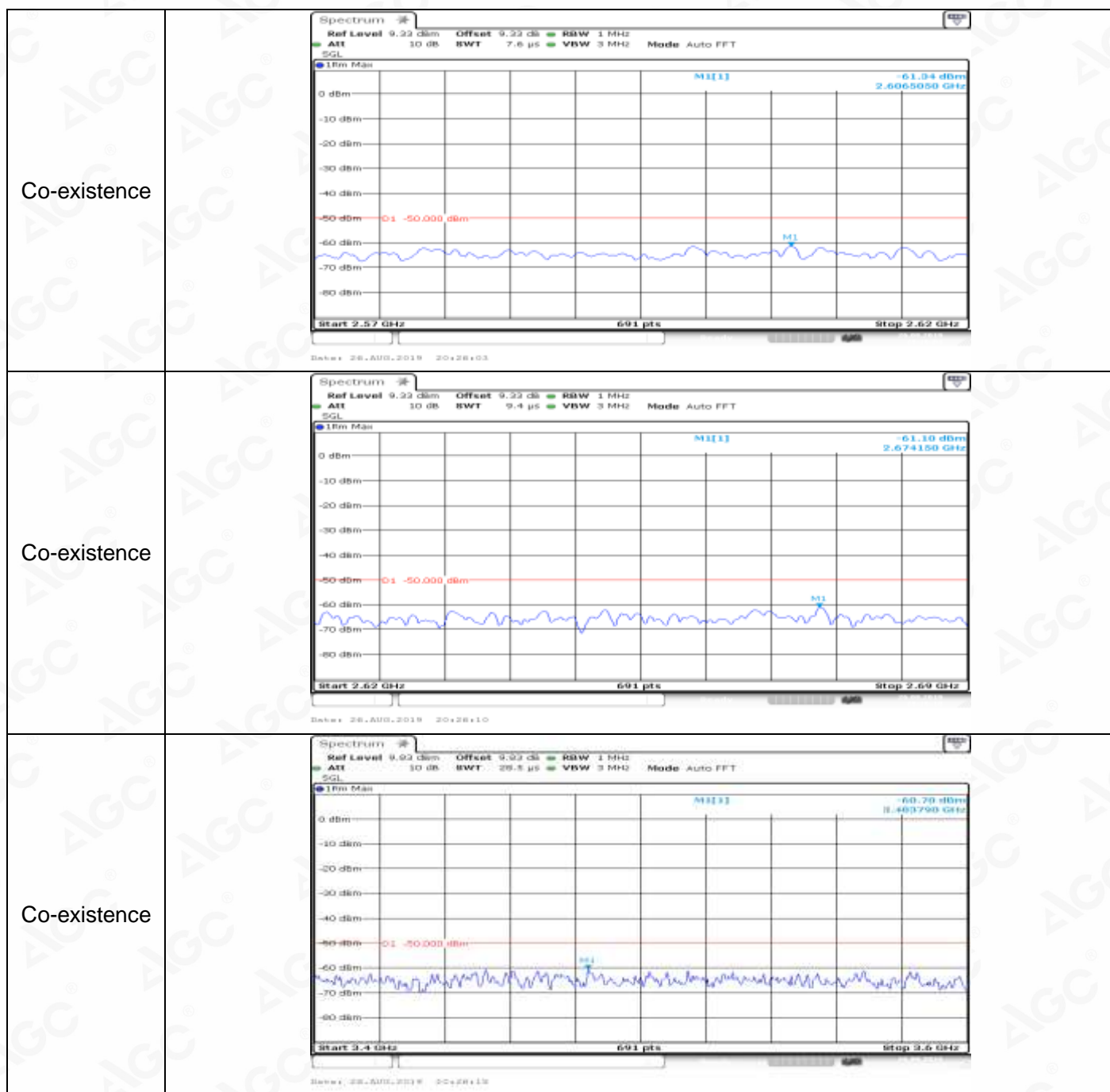
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General	
General	

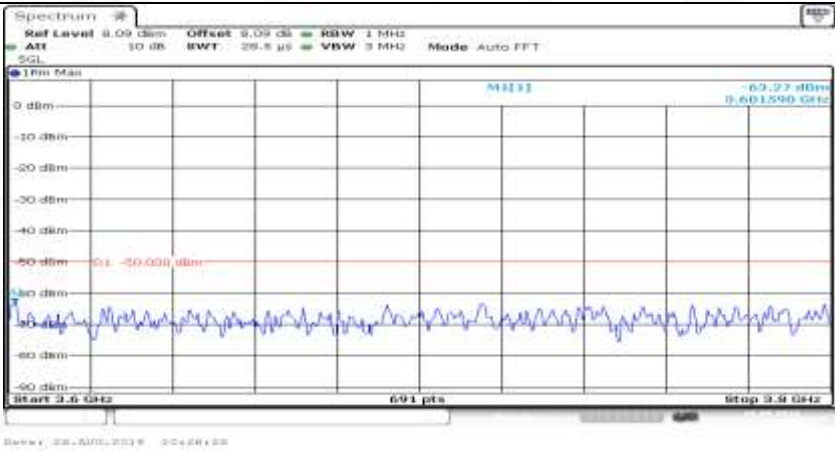


General	
General	
Co-existence	

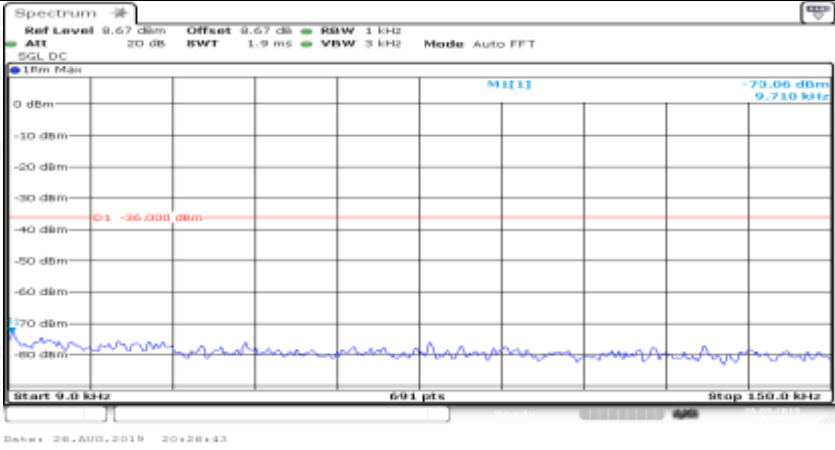
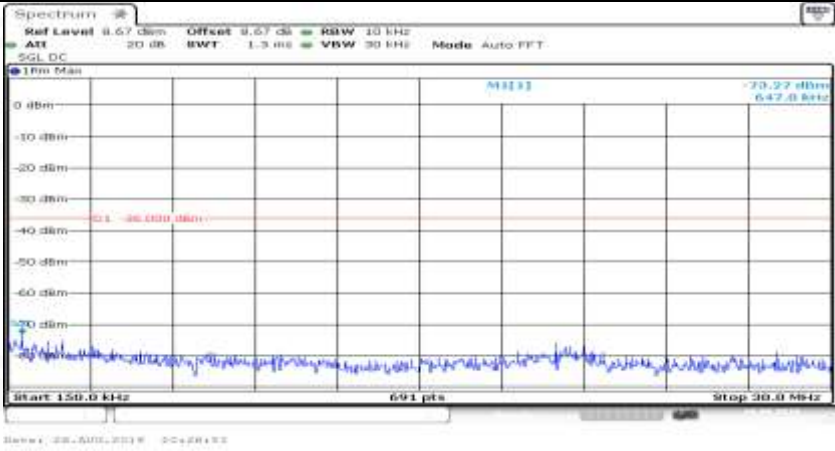
Co-existence	
Co-existence	
Co-existence	

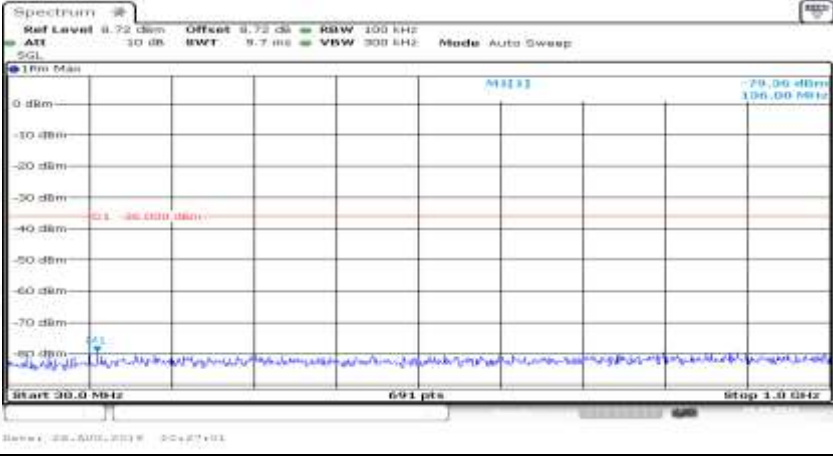
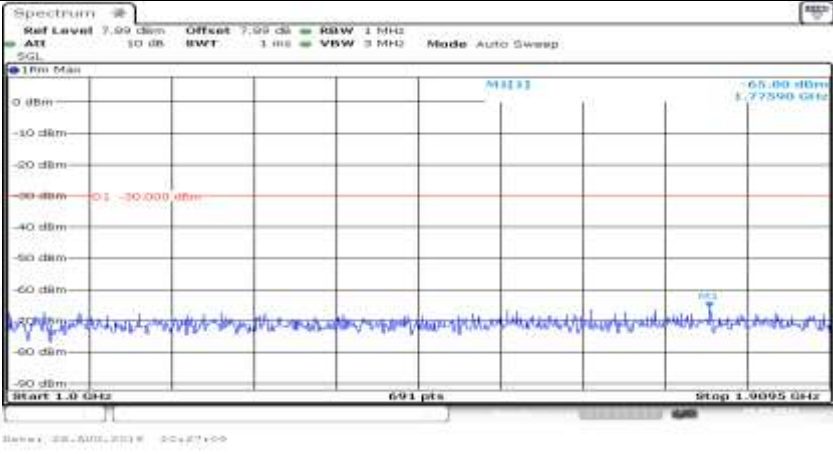
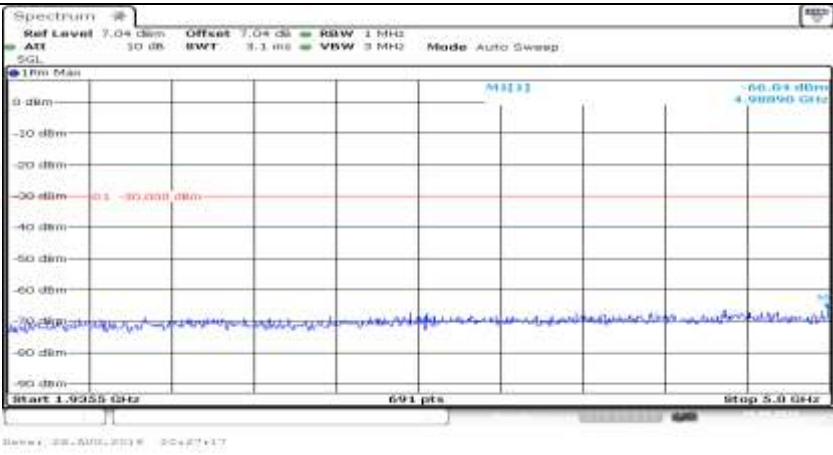




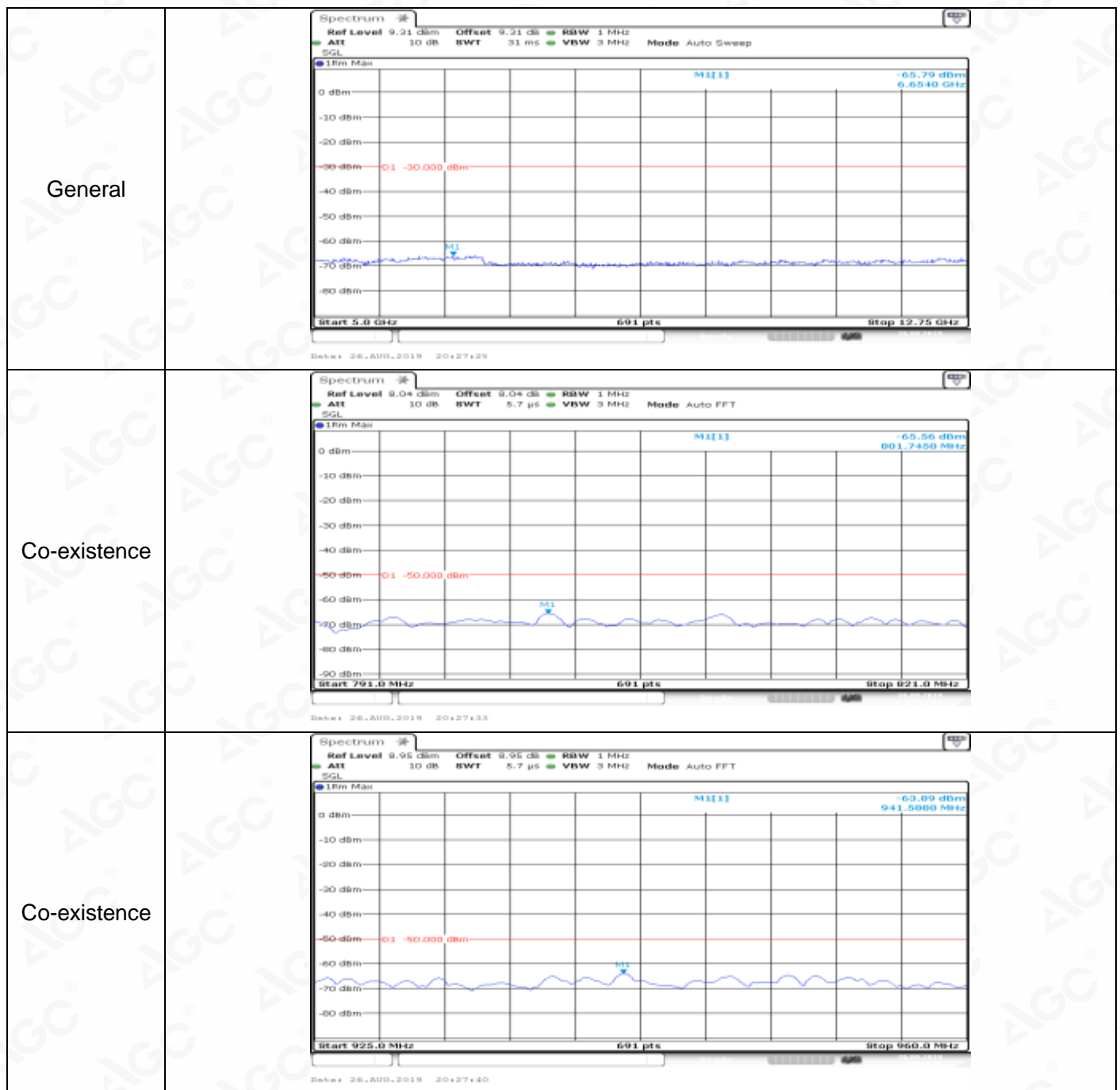
Co-existence	
Additional	NA


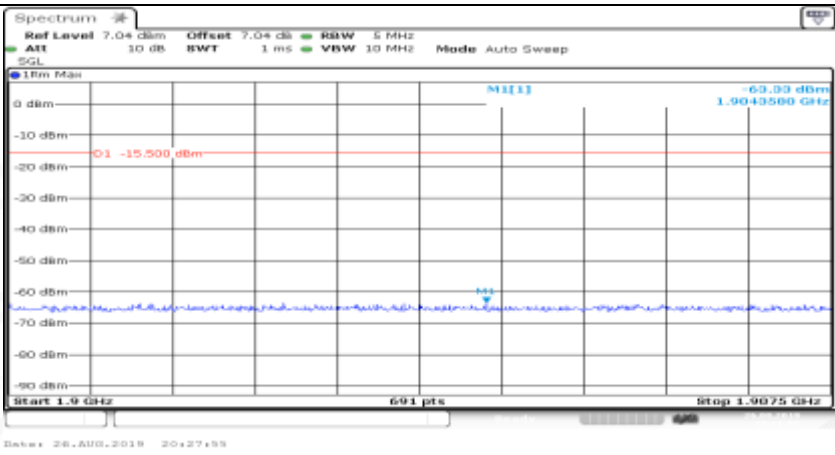

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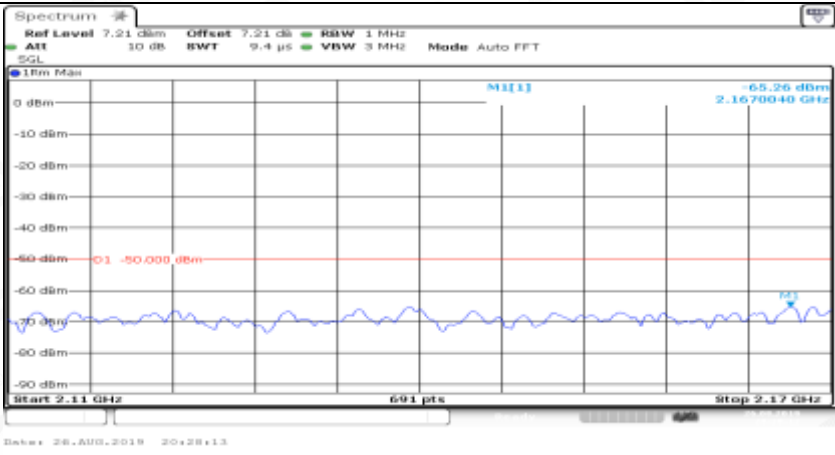

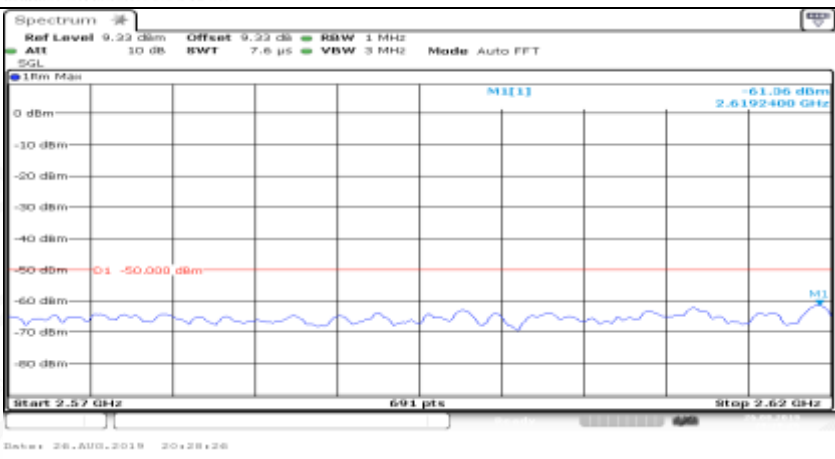
General	
General	

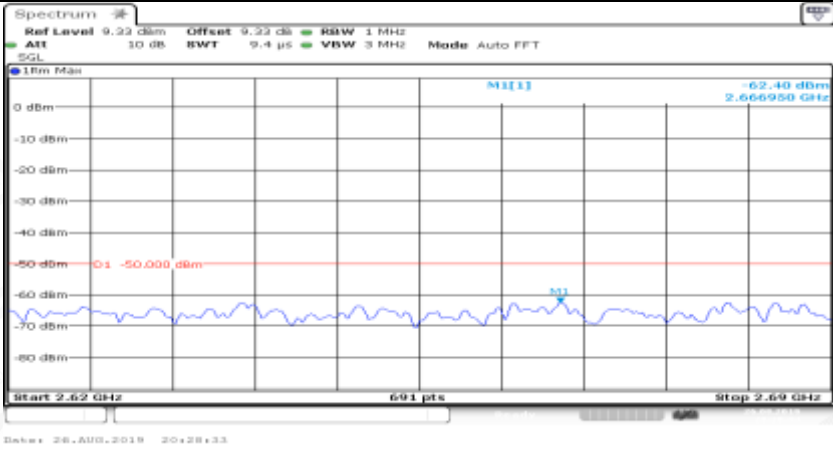

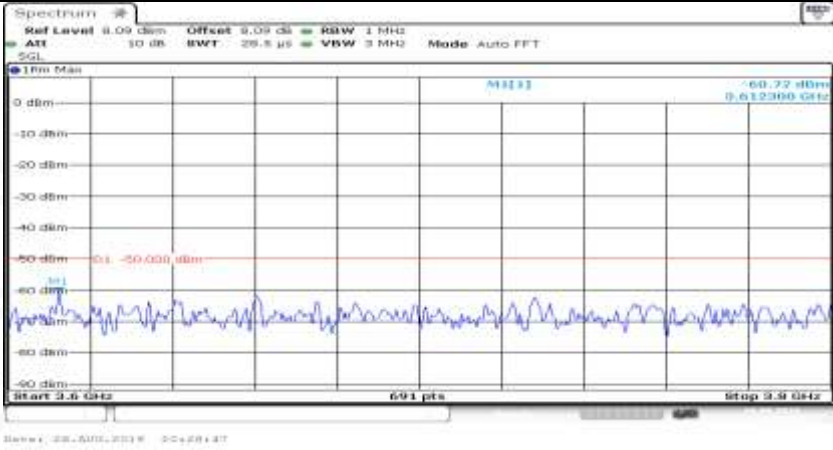
General	
General	
General	



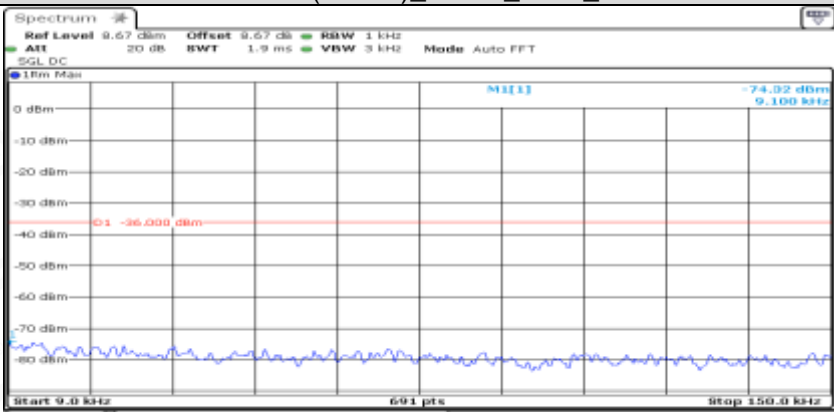
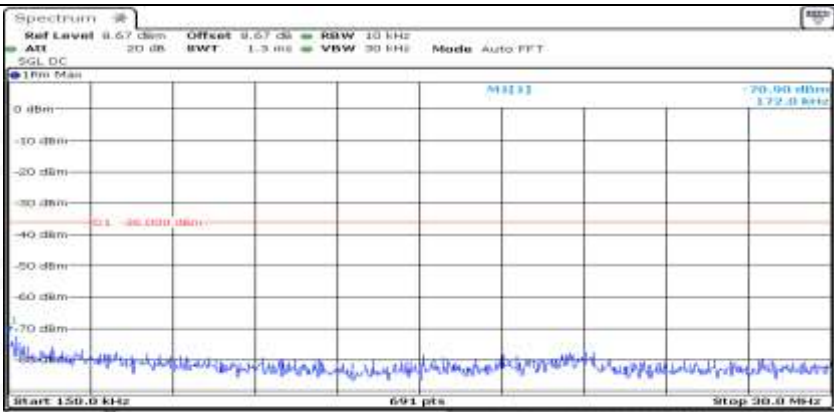
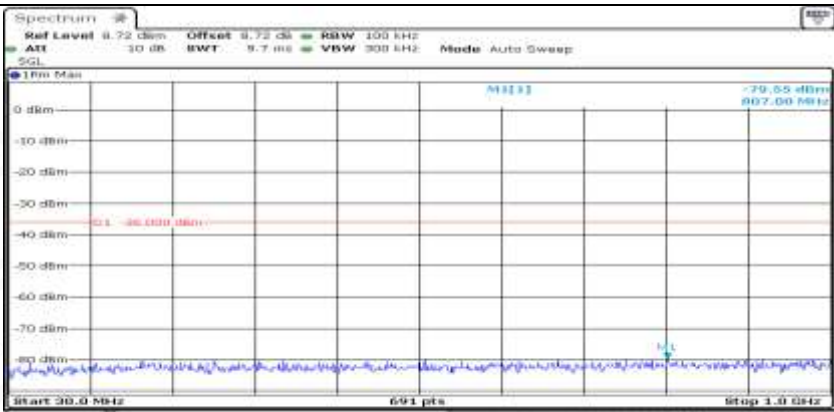


Co-existence	
Co-existence	
Co-existence	

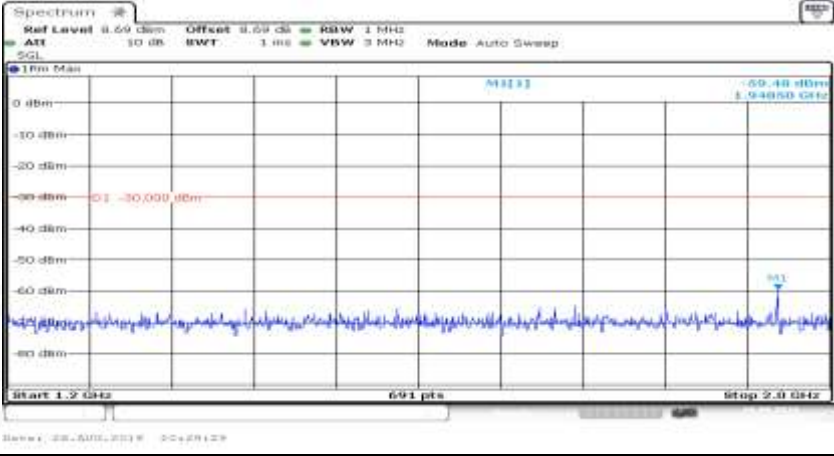
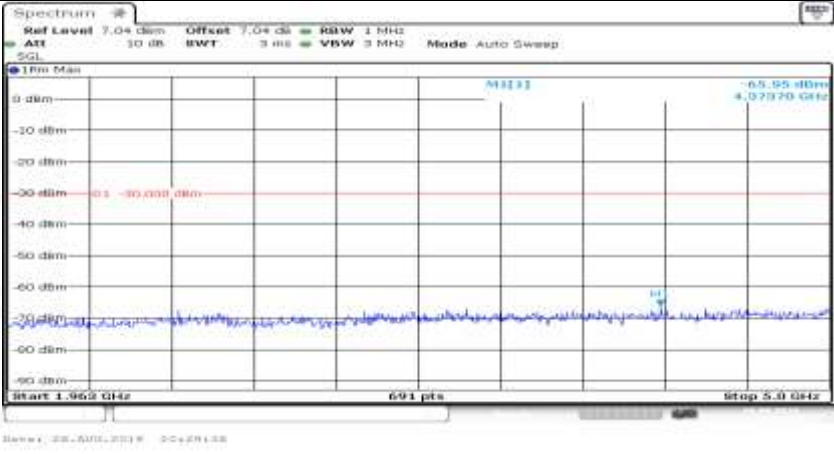
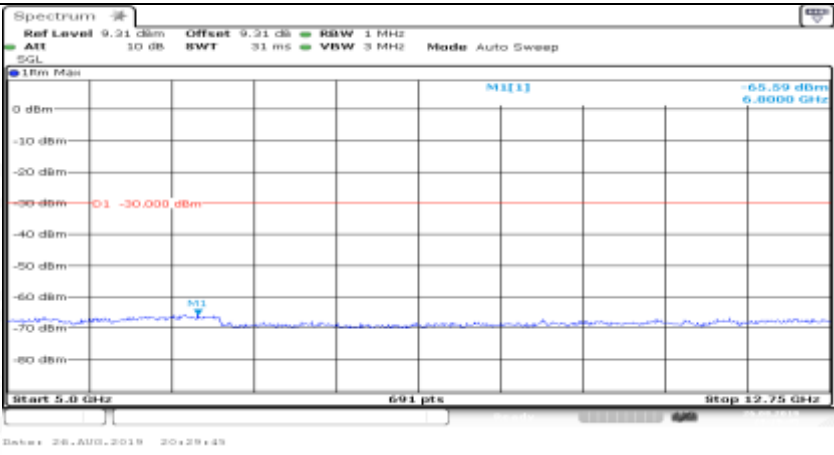
Co-existence	
Co-existence	
Co-existence	

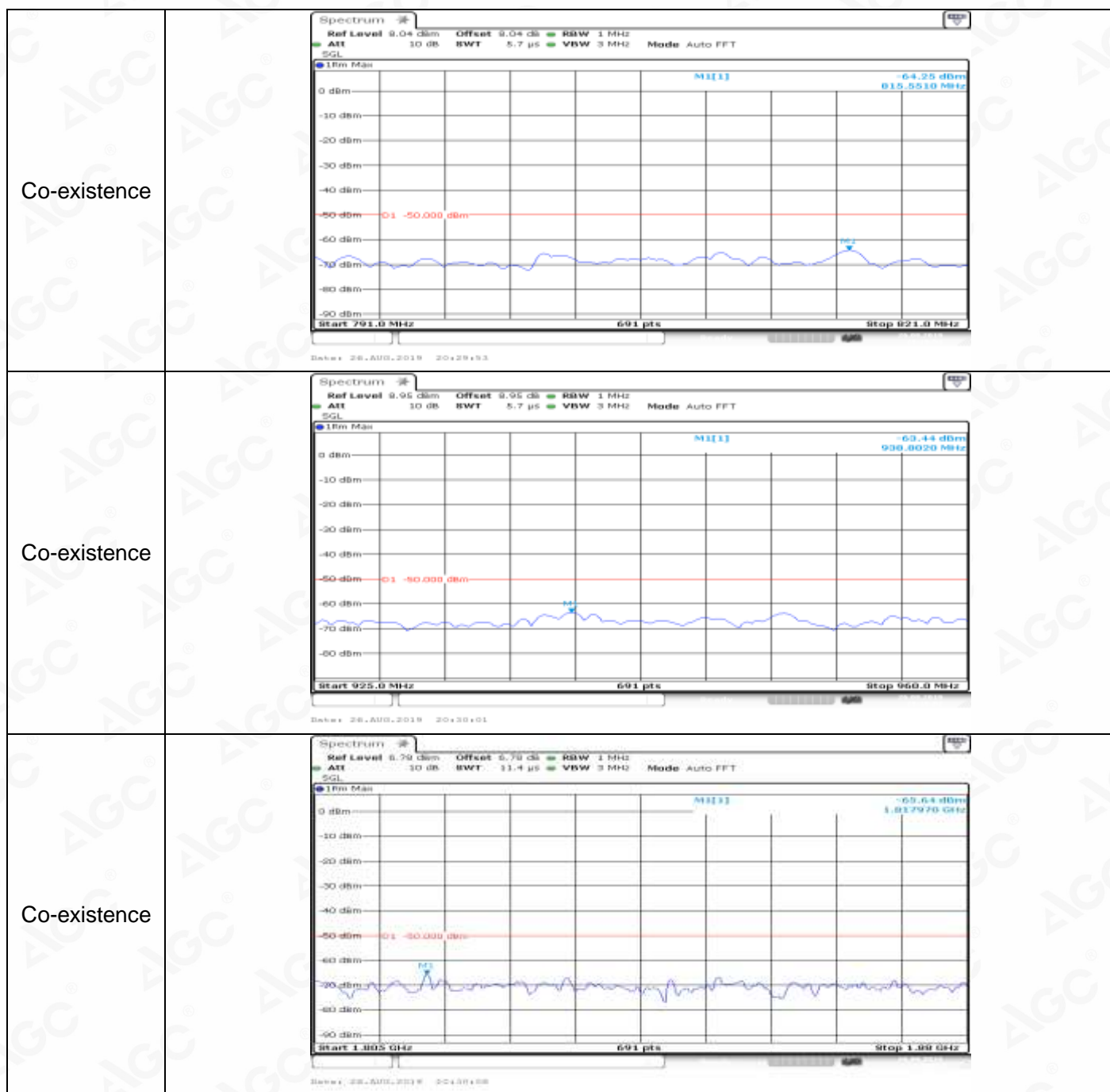
Co-existence	
Co-existence	
Co-existence	
Additional	NA

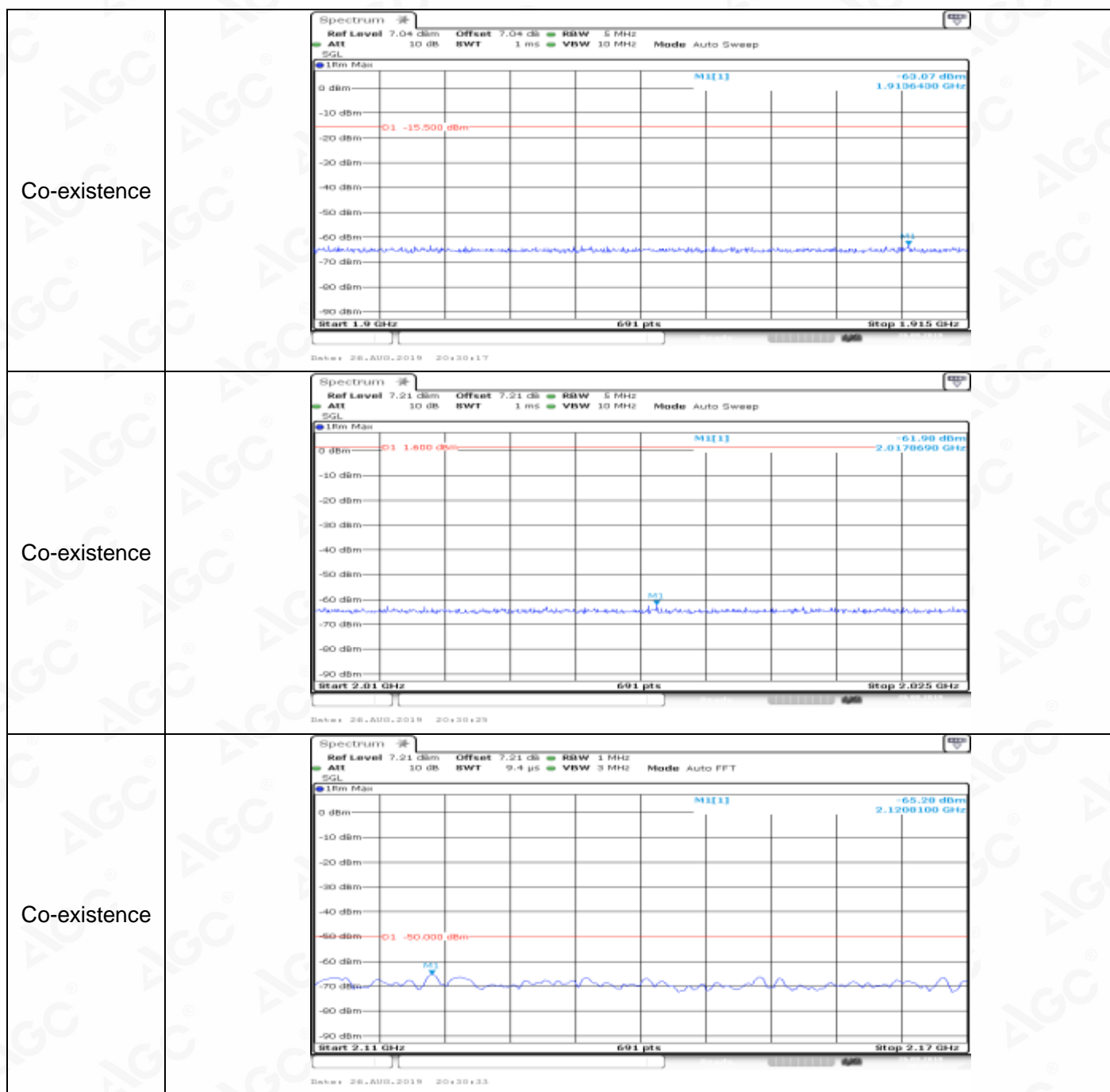
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0

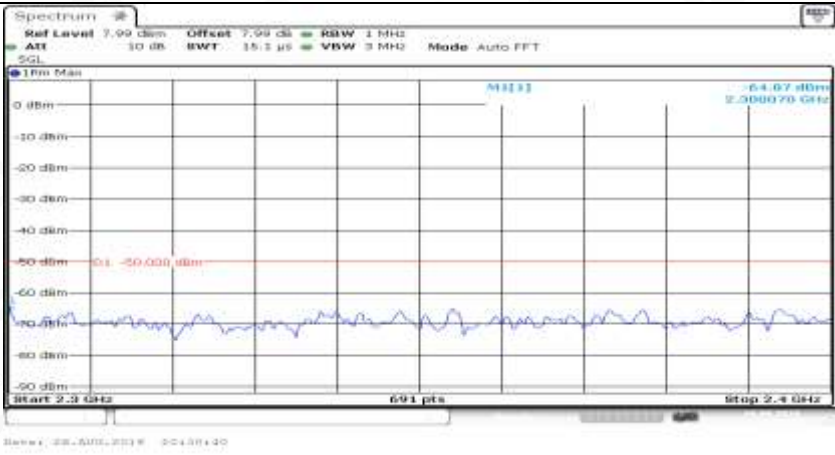
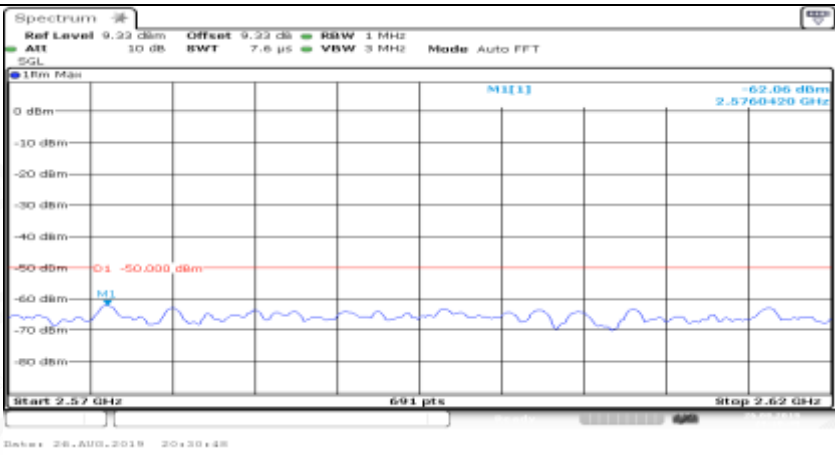
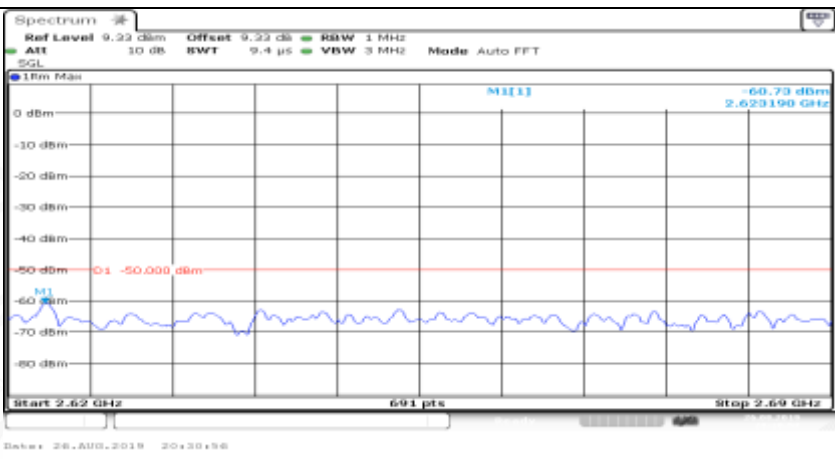
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB RBW 1 kHz Att 20 dB BW 1.9 ms VBW 3 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 9.0 kHz 691 pts Stop 150.0 kHz</p> <p>Ref: 28.AUG.2019 20:29:02</p>
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB RBW 10 kHz Att 20 dB BW 1.3 ms VBW 30 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 150.0 kHz 691 pts Stop 300.0 MHz</p> <p>Ref: 28.AUG.2019 20:29:12</p>
General	 <p>Ref Level 9.72 dBm Offset 9.72 dB RBW 100 kHz Att 30 dB BW 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>SGL</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 300.0 MHz 691 pts Stop 1.0 GHz</p> <p>Ref: 28.AUG.2019 20:29:21</p>


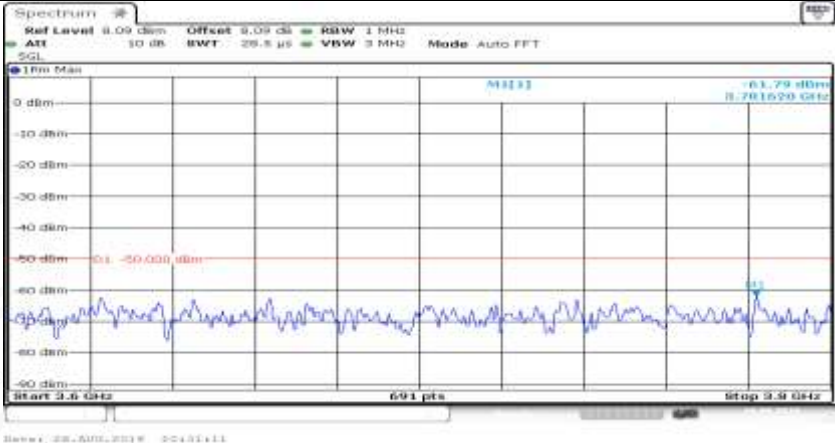


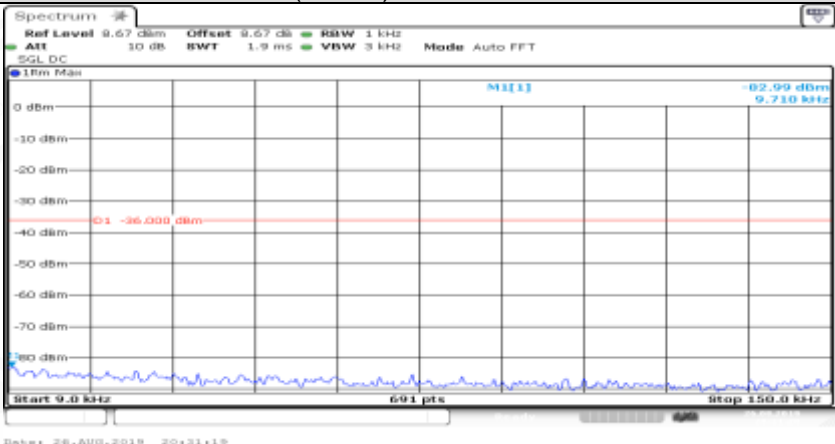
General	
General	
General	

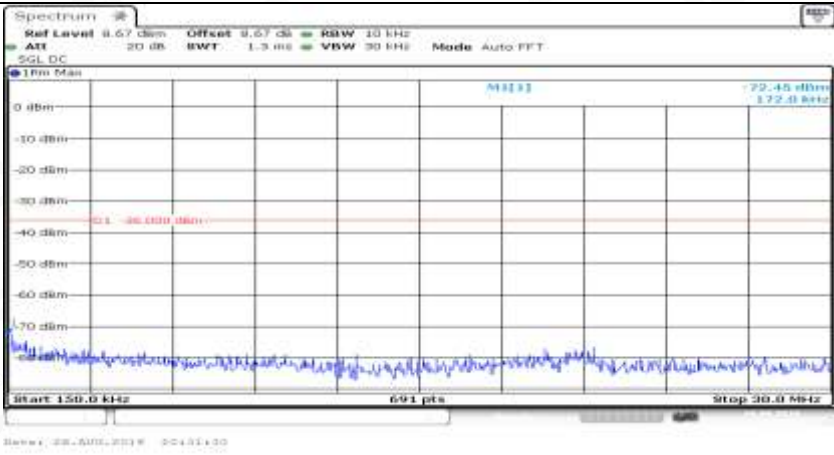
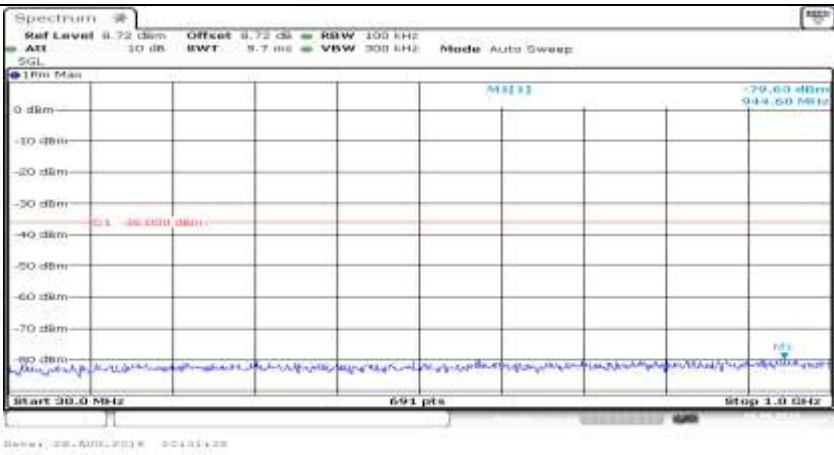
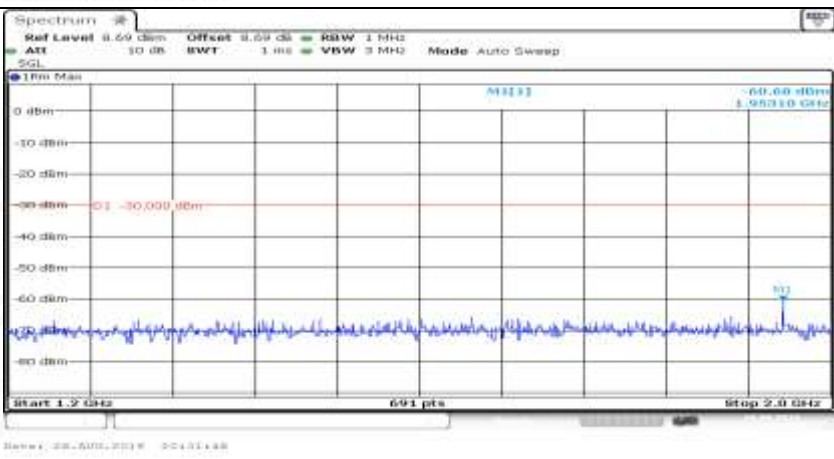




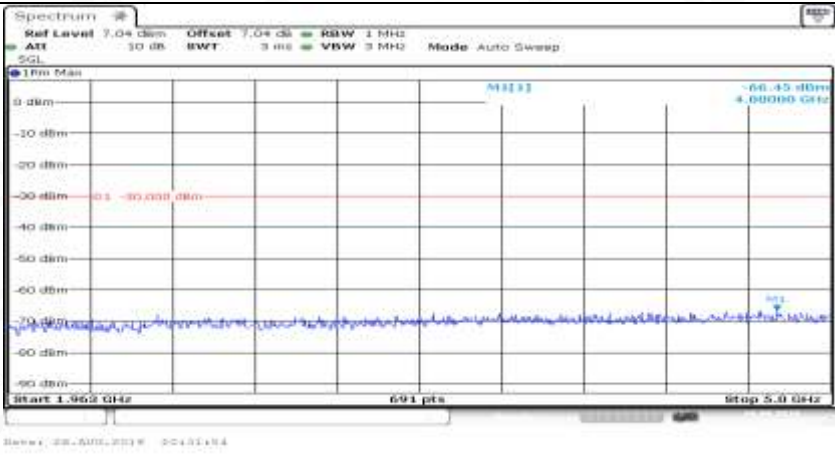
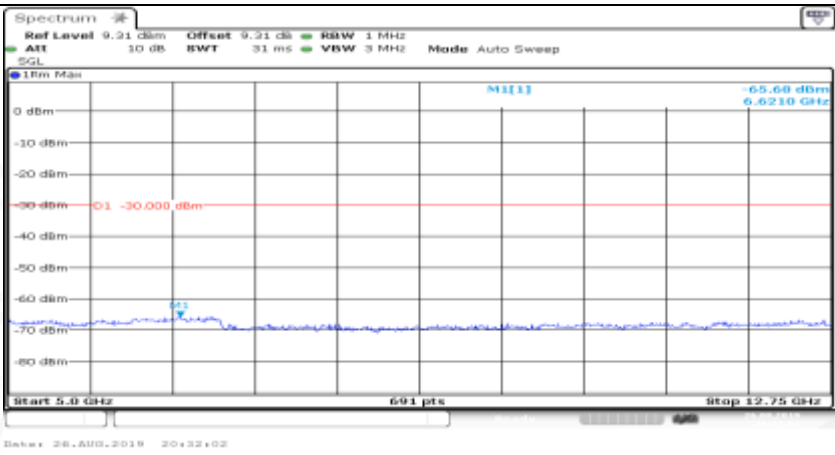
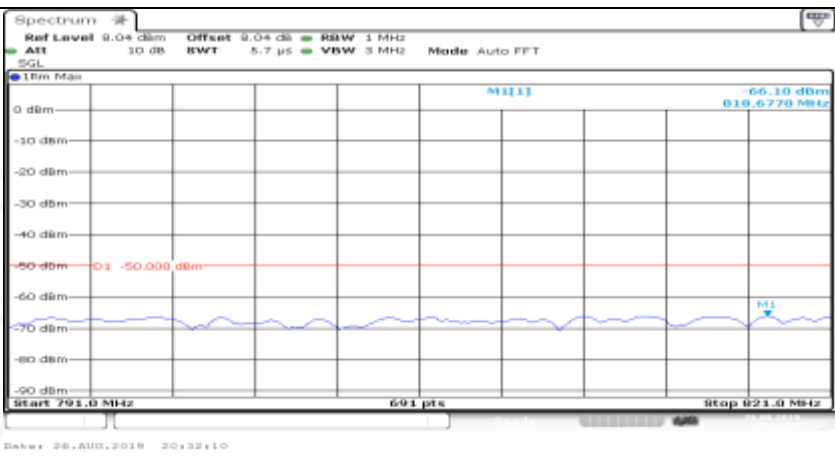
Co-existence	
Co-existence	
Co-existence	

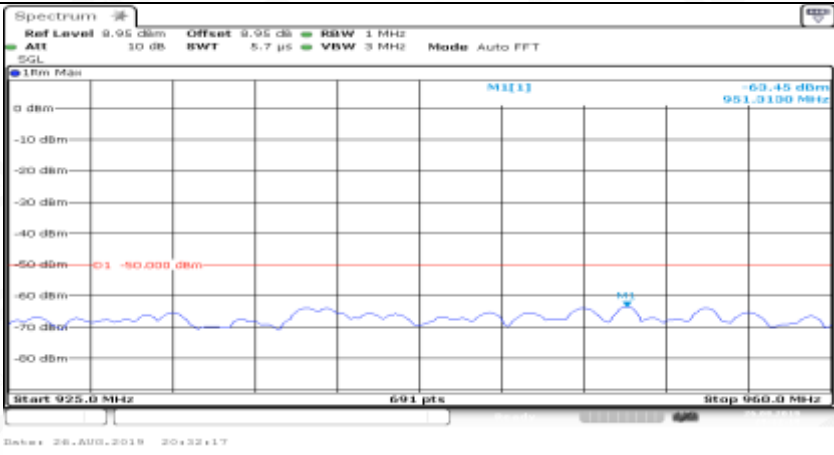

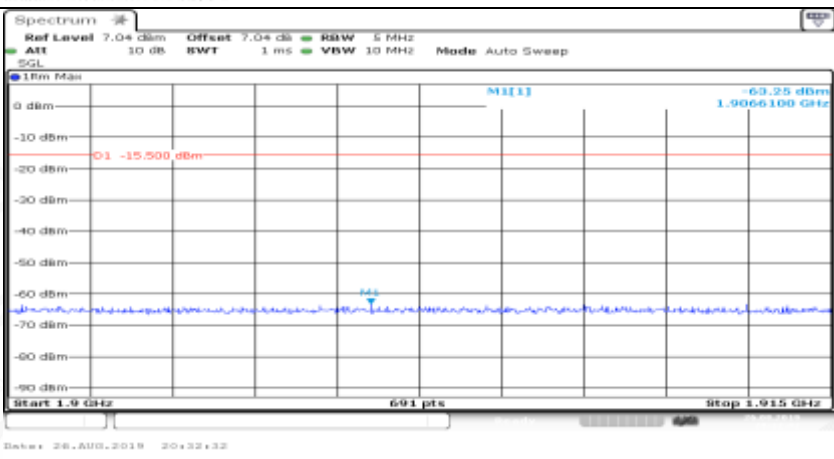
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

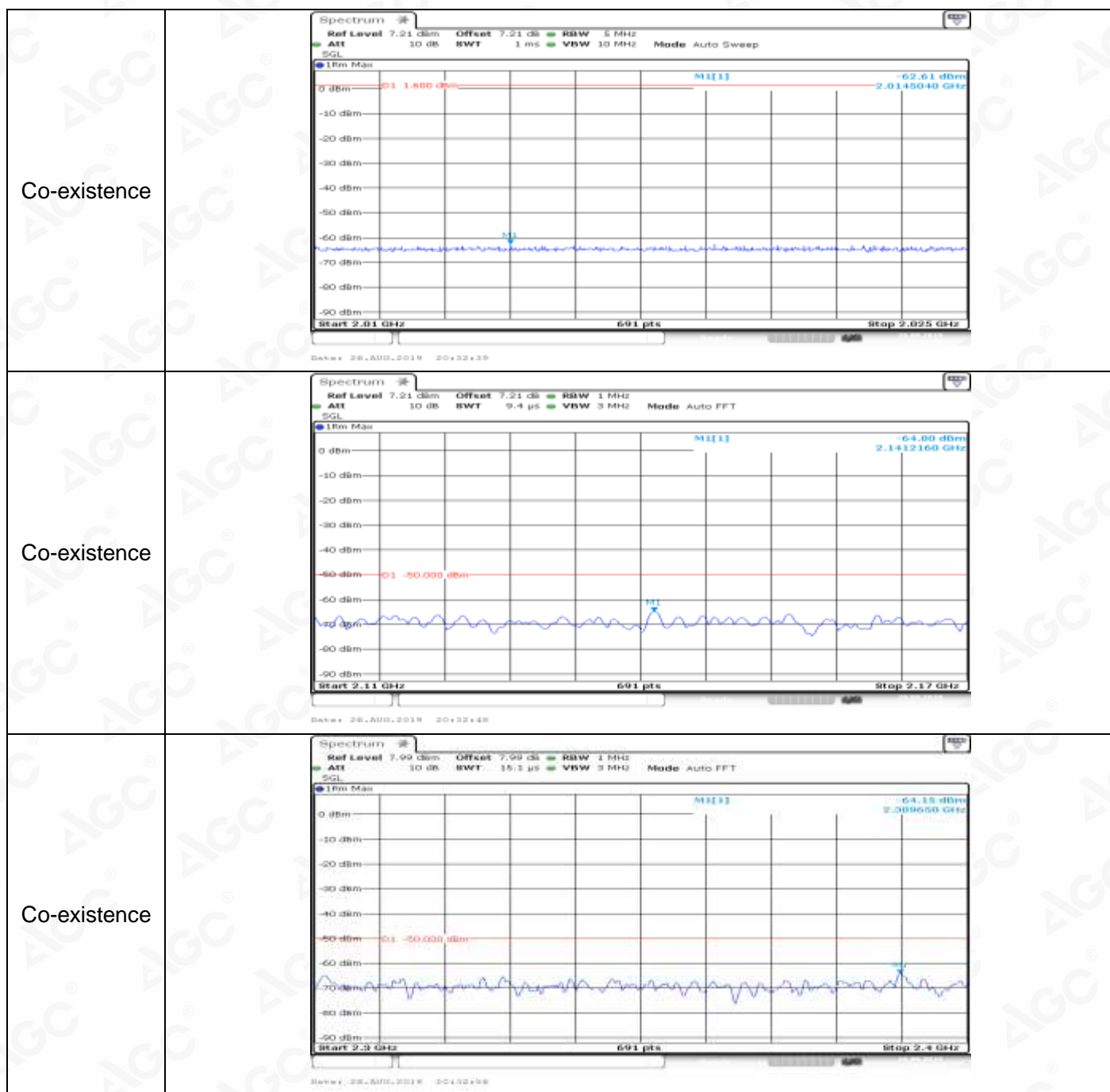
General	
General	
General	

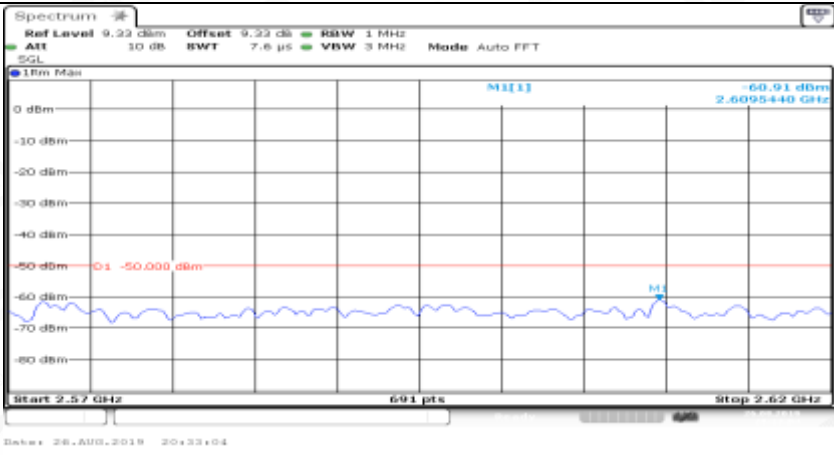
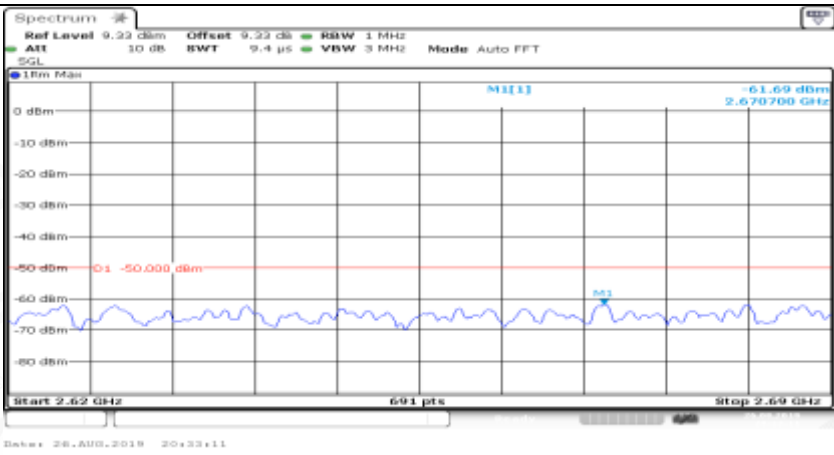



General	
General	
Co-existence	

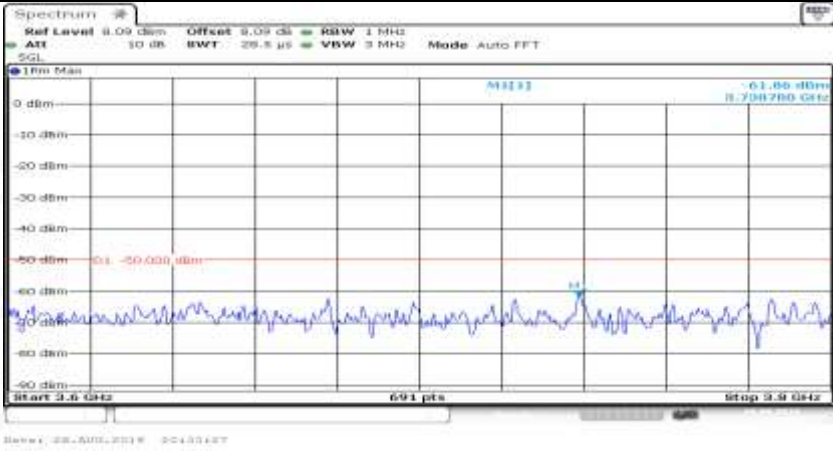
Co-existence	
Co-existence	
Co-existence	

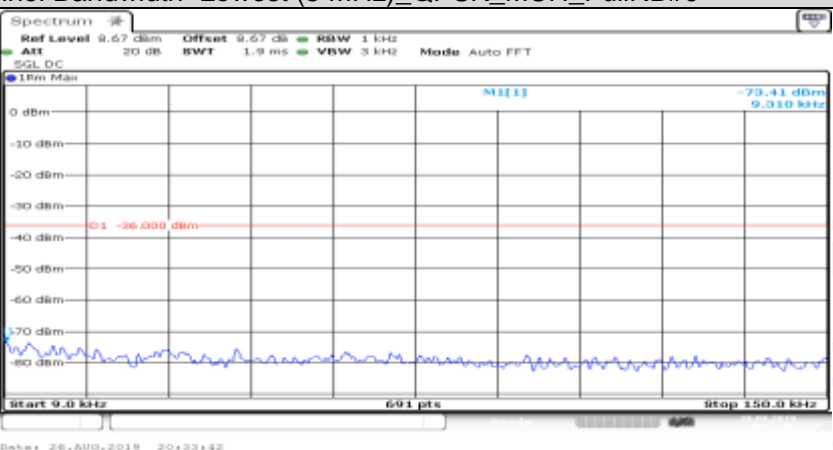
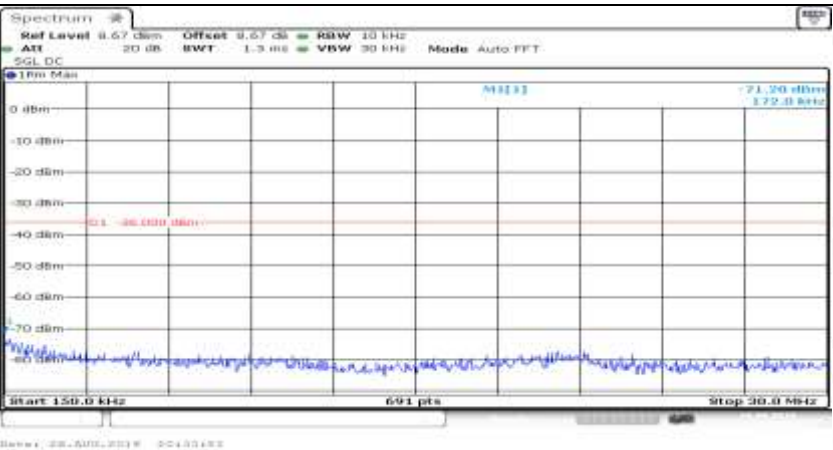


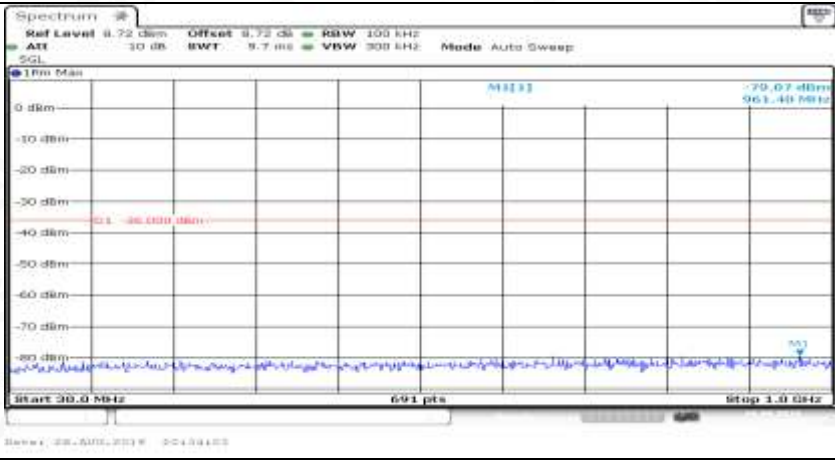
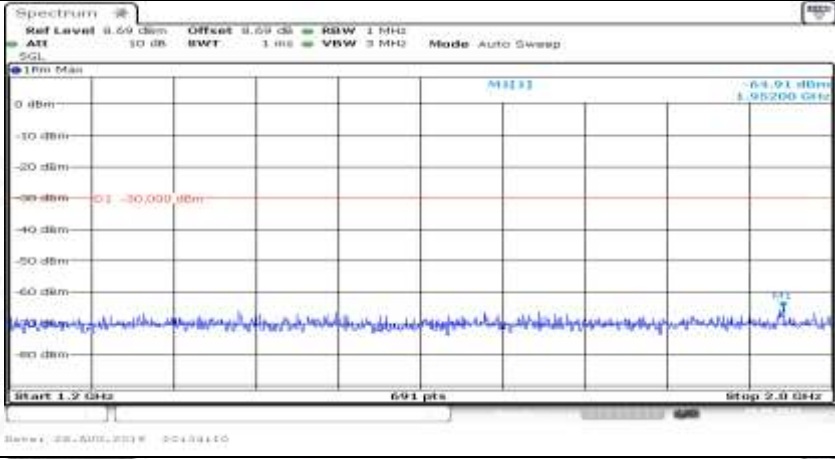
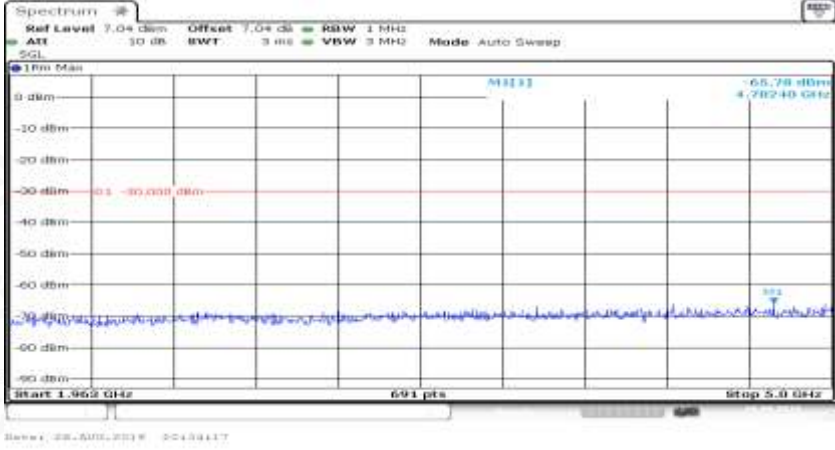


Co-existence	
Co-existence	
Co-existence	

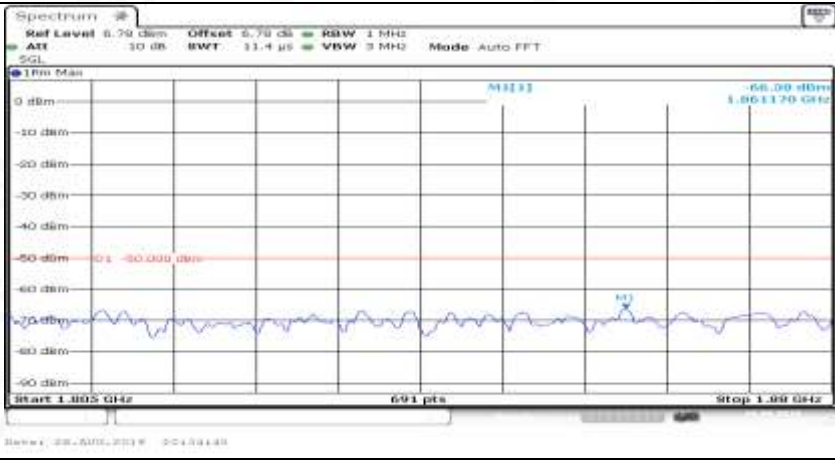
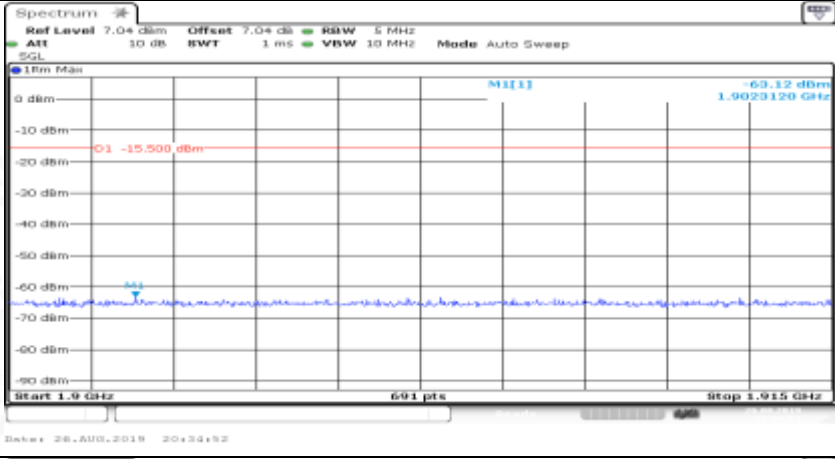
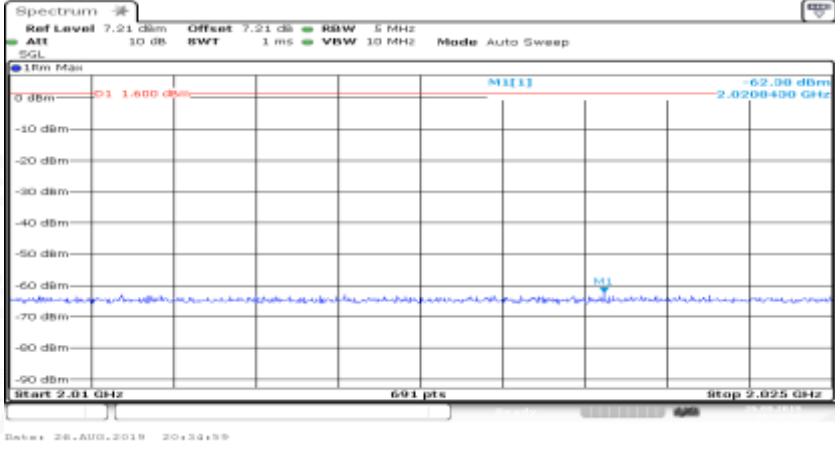


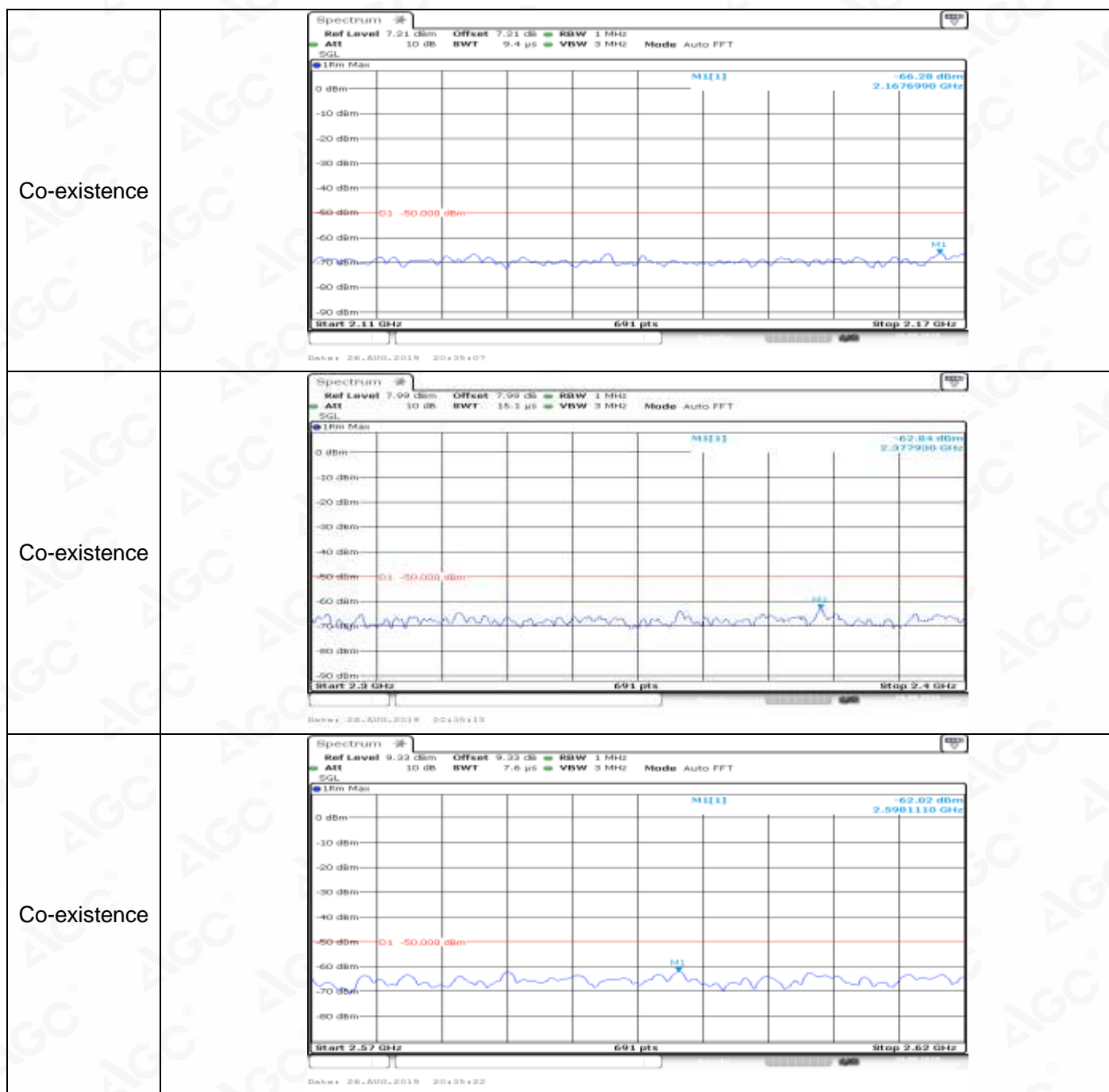
Co-existence	
Additional	NA

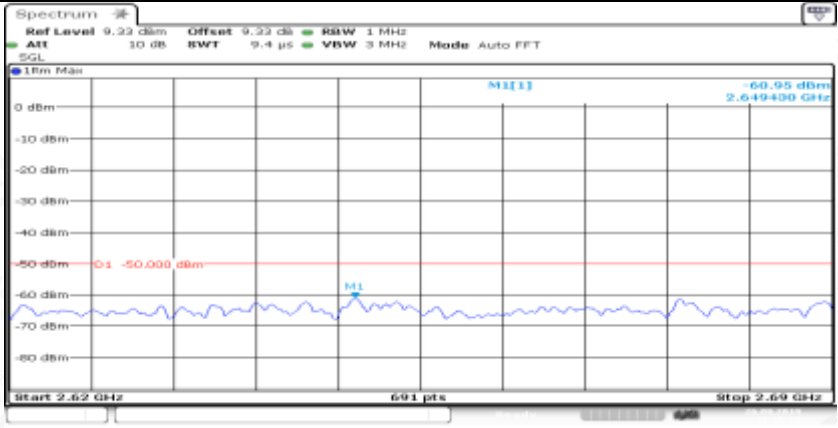
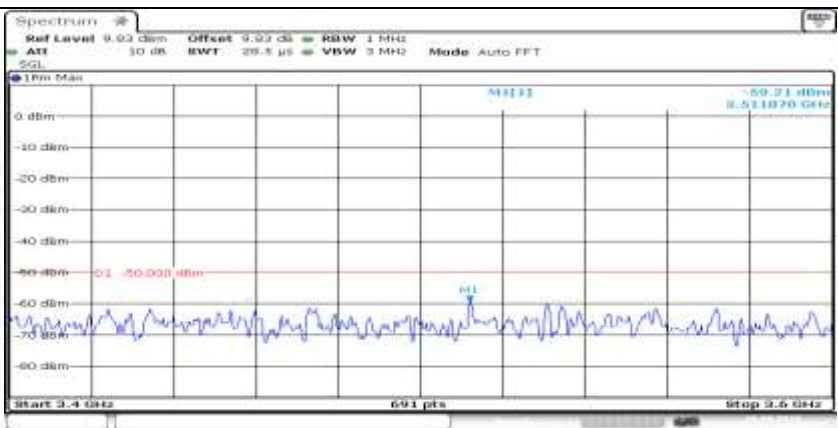
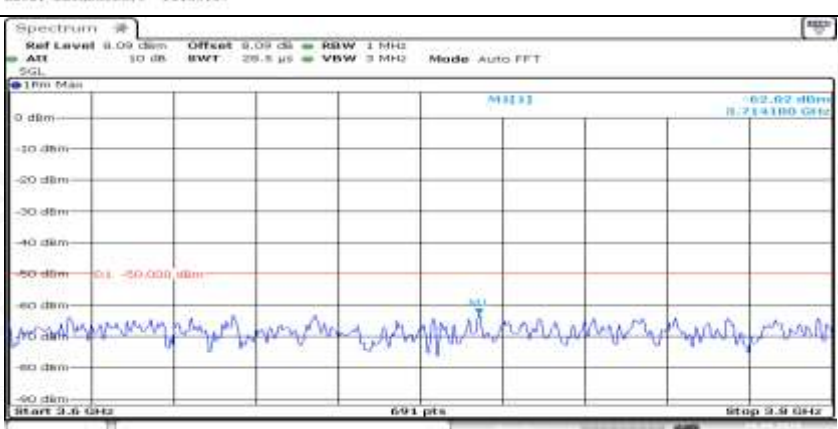
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	
General	

General	
General	
General	

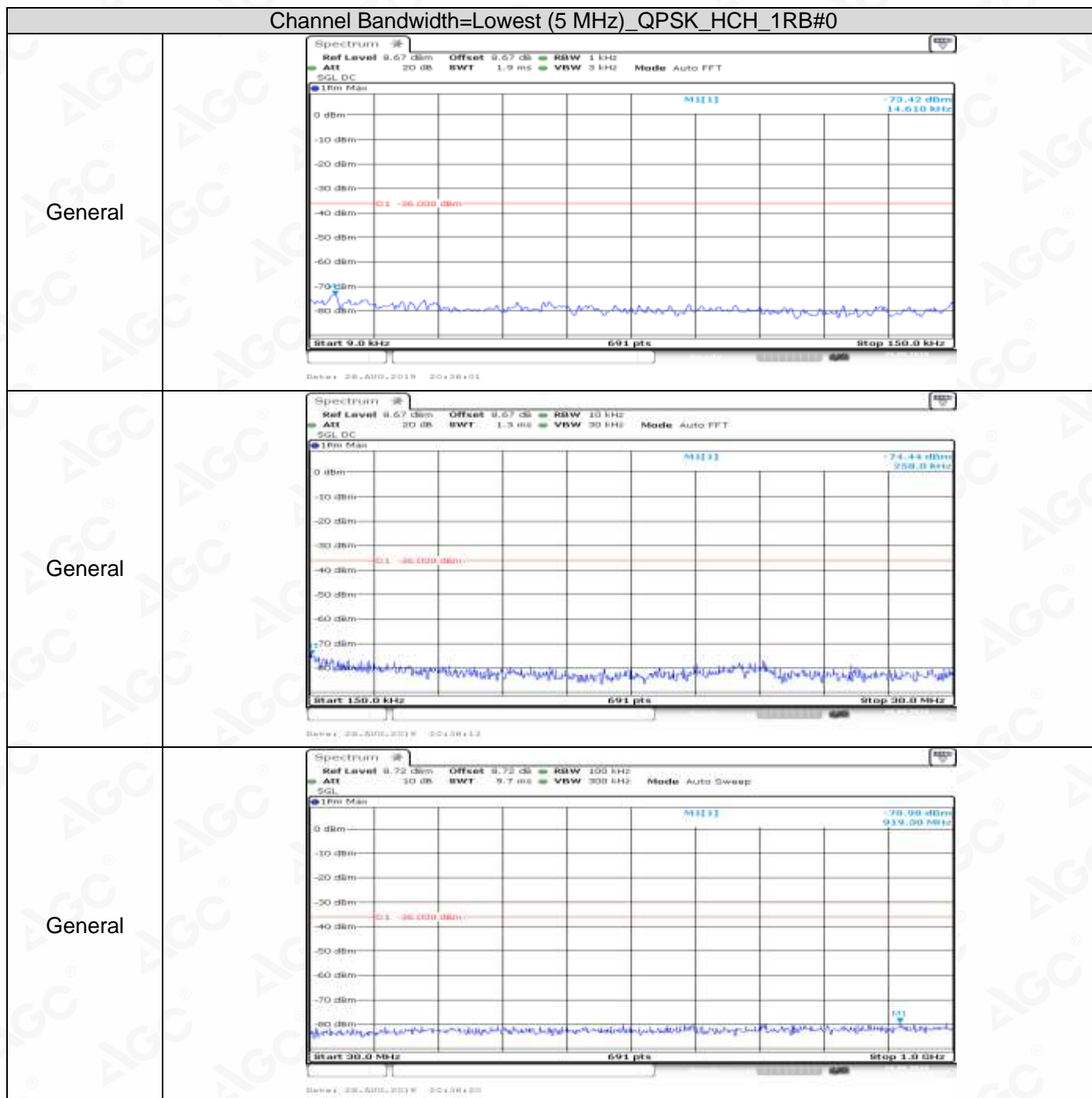
Attestation of Global Compliance

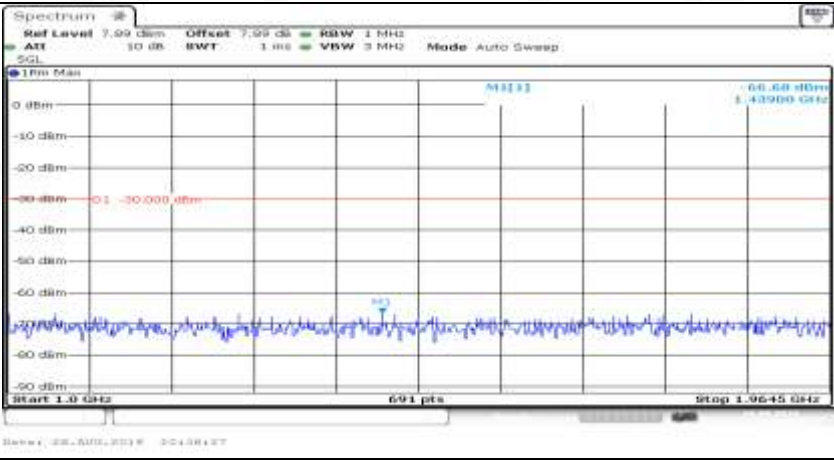
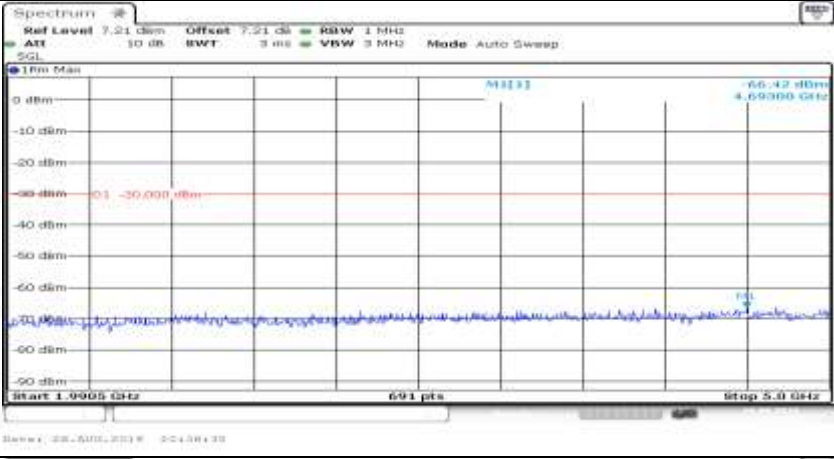
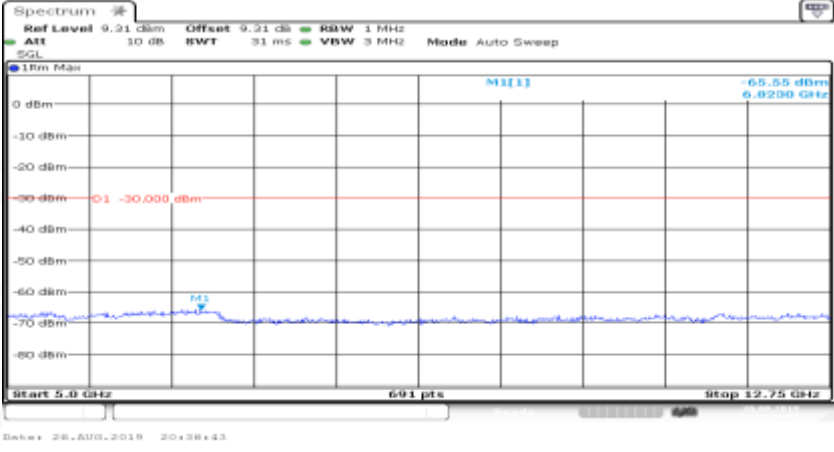
Co-existence	
Co-existence	
Co-existence	

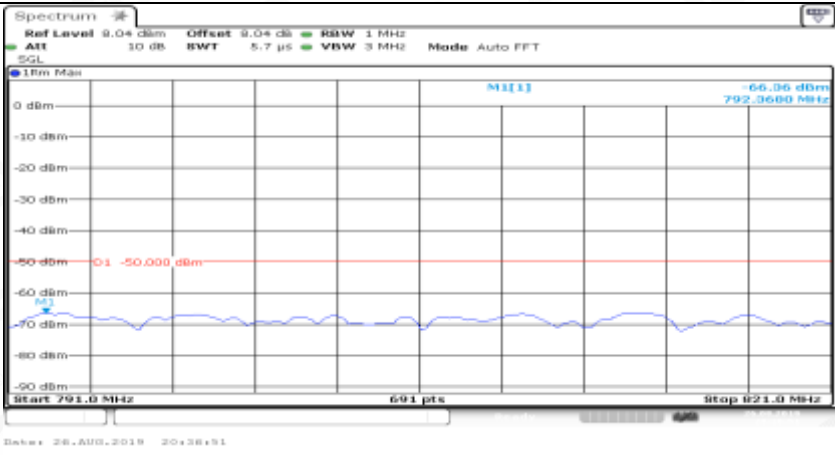
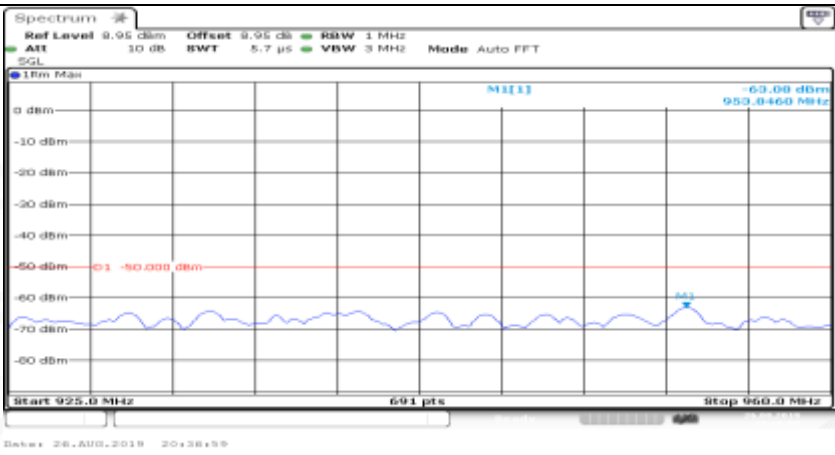



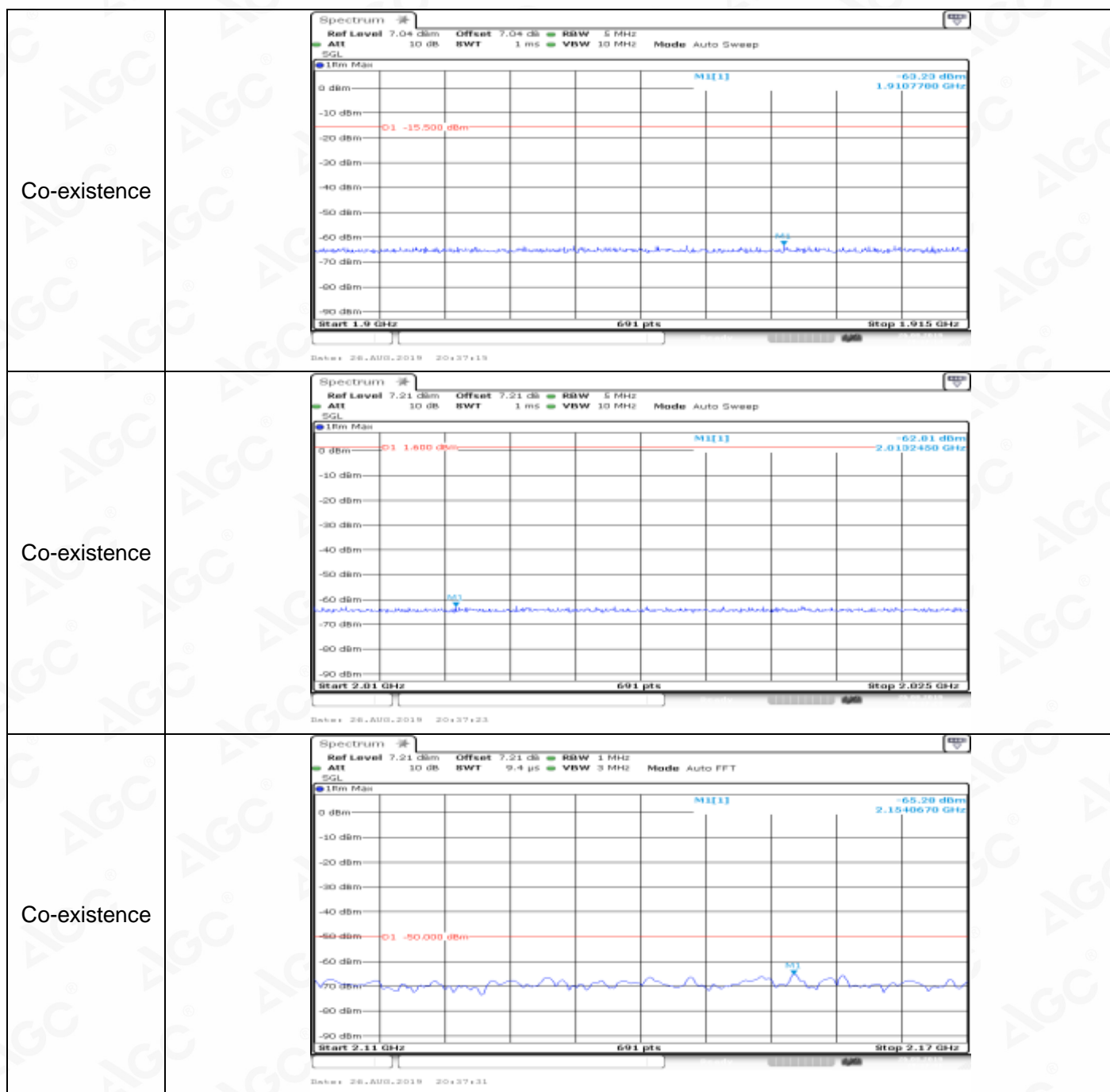
Co-existence	
Co-existence	
Co-existence	
Additional	NA


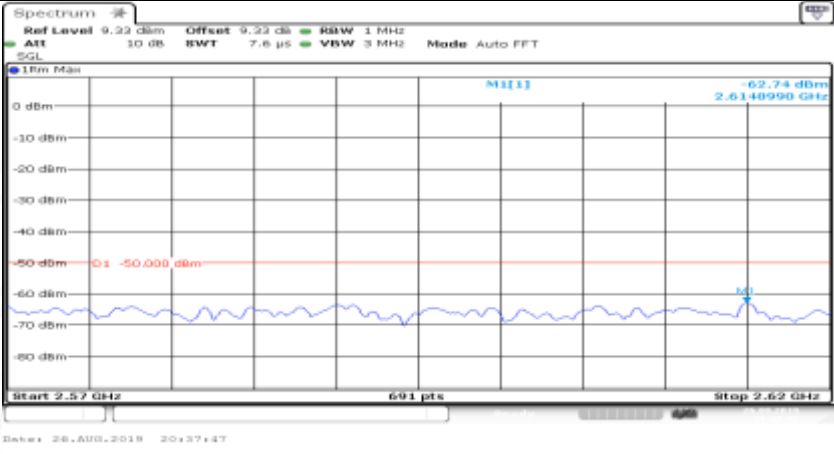
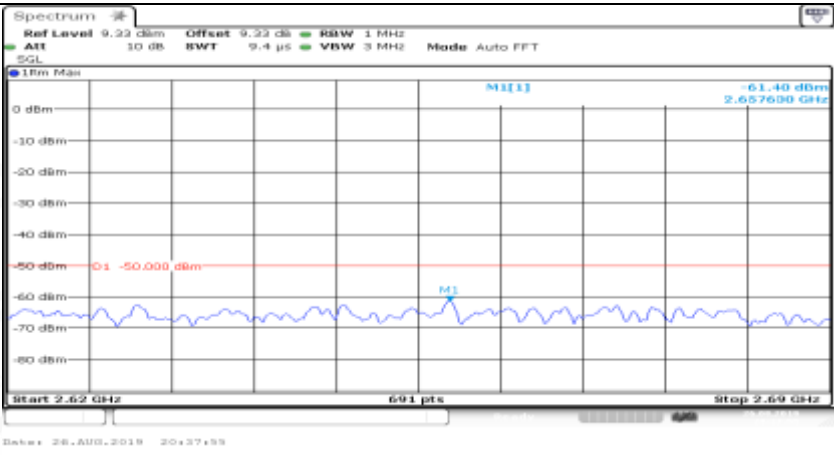
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0

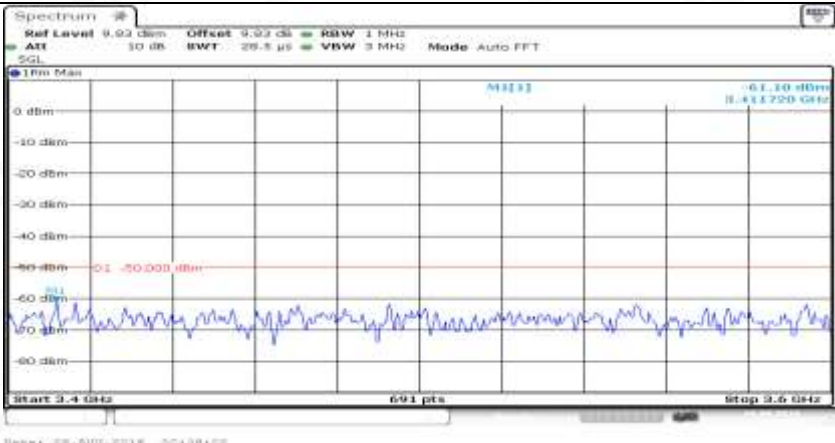
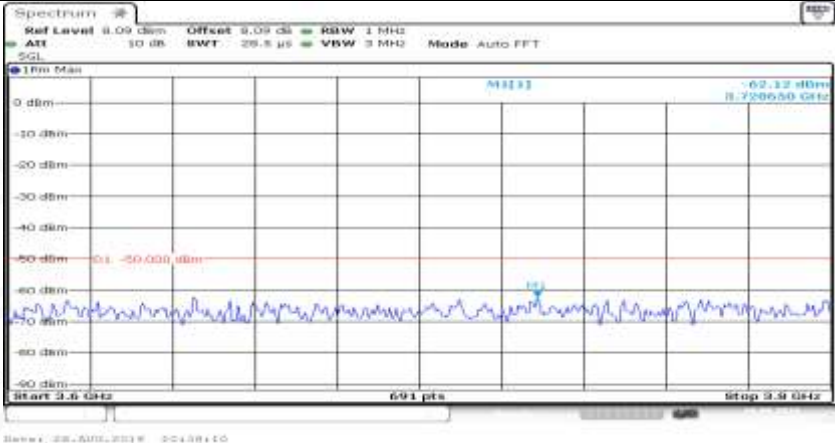


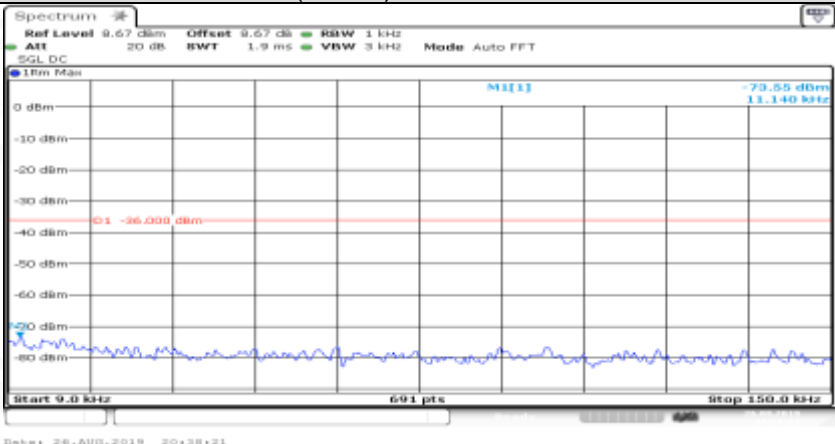
General	
General	
General	

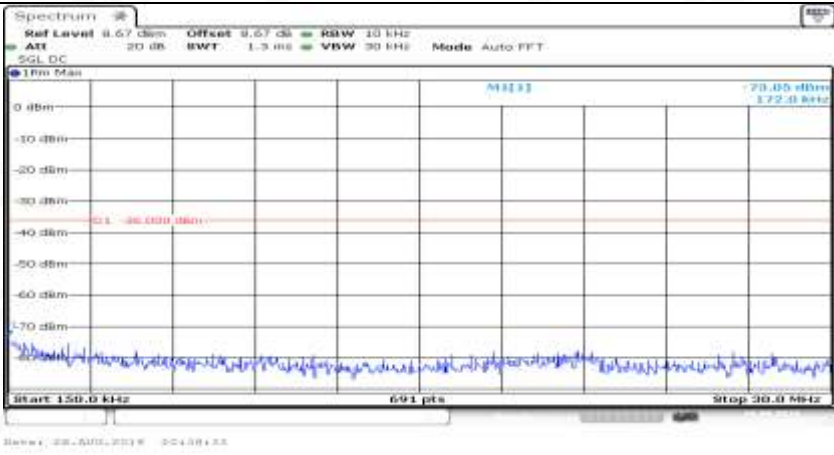
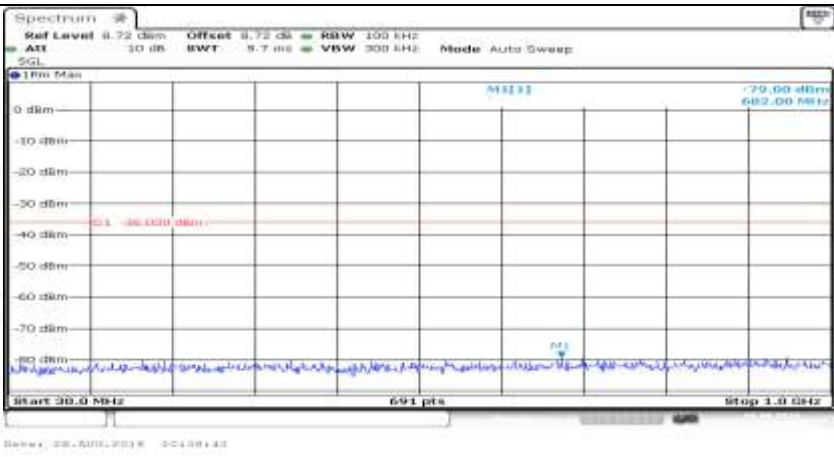
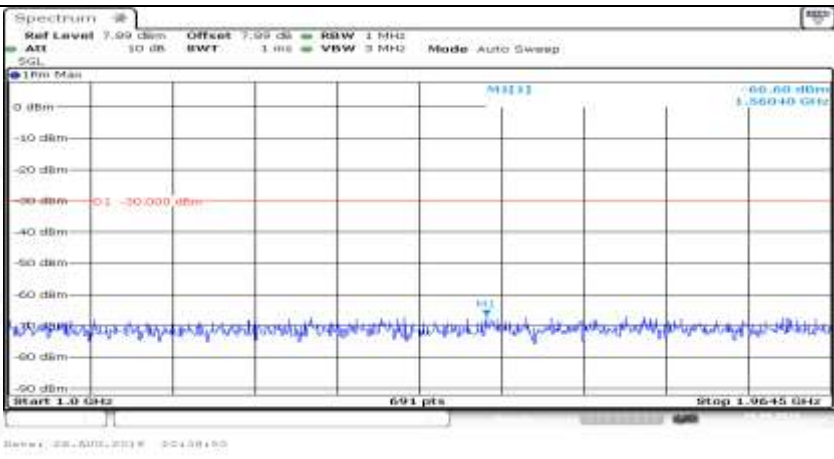
Co-existence	
Co-existence	
Co-existence	



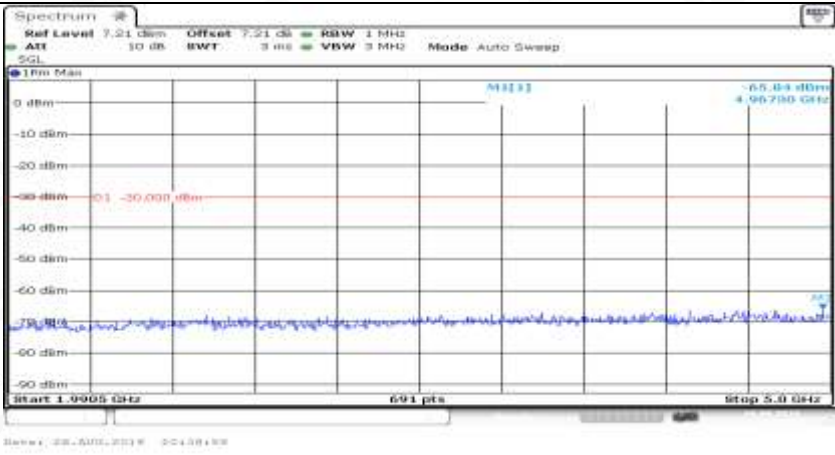
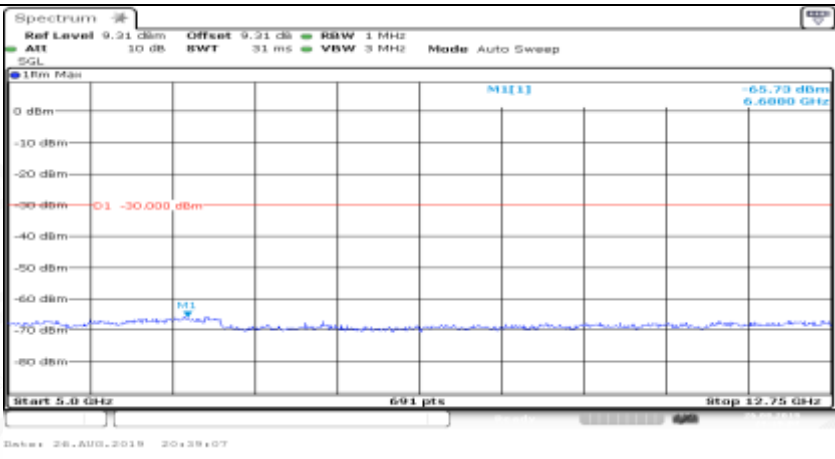
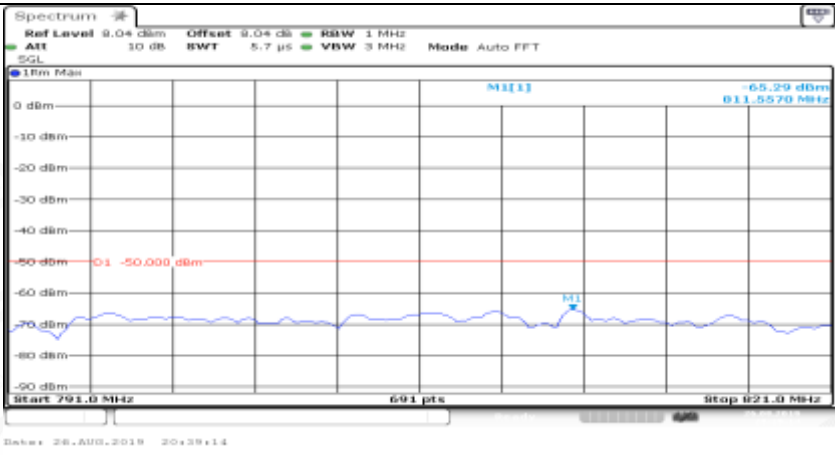
Co-existence	
Co-existence	
Co-existence	

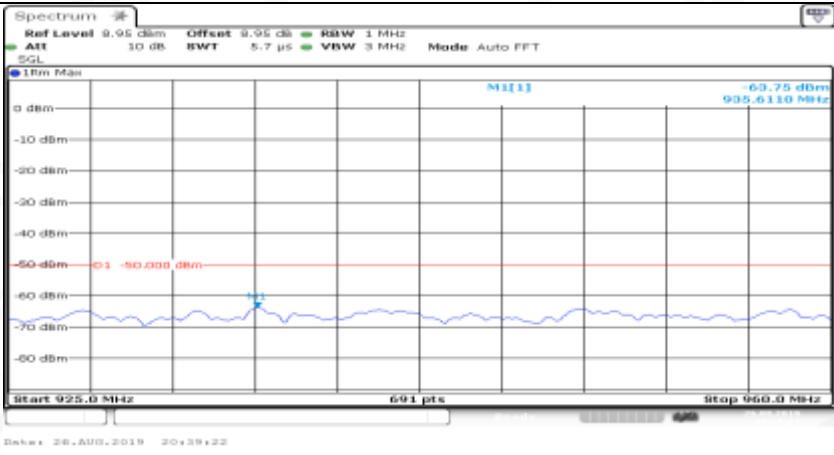

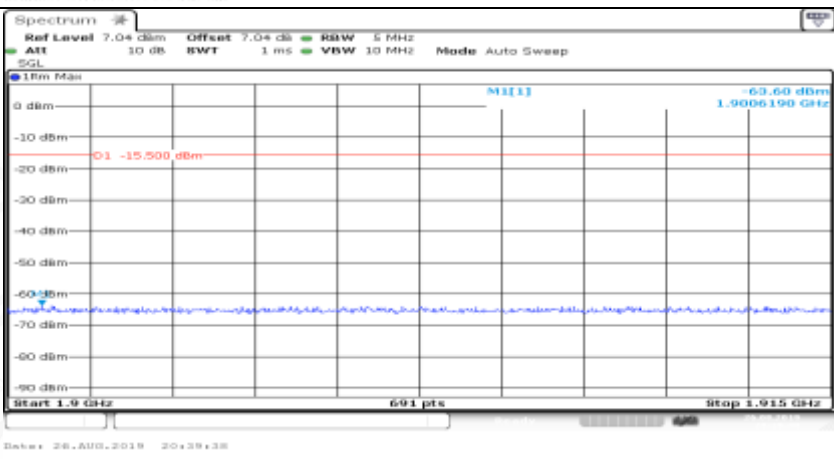
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	

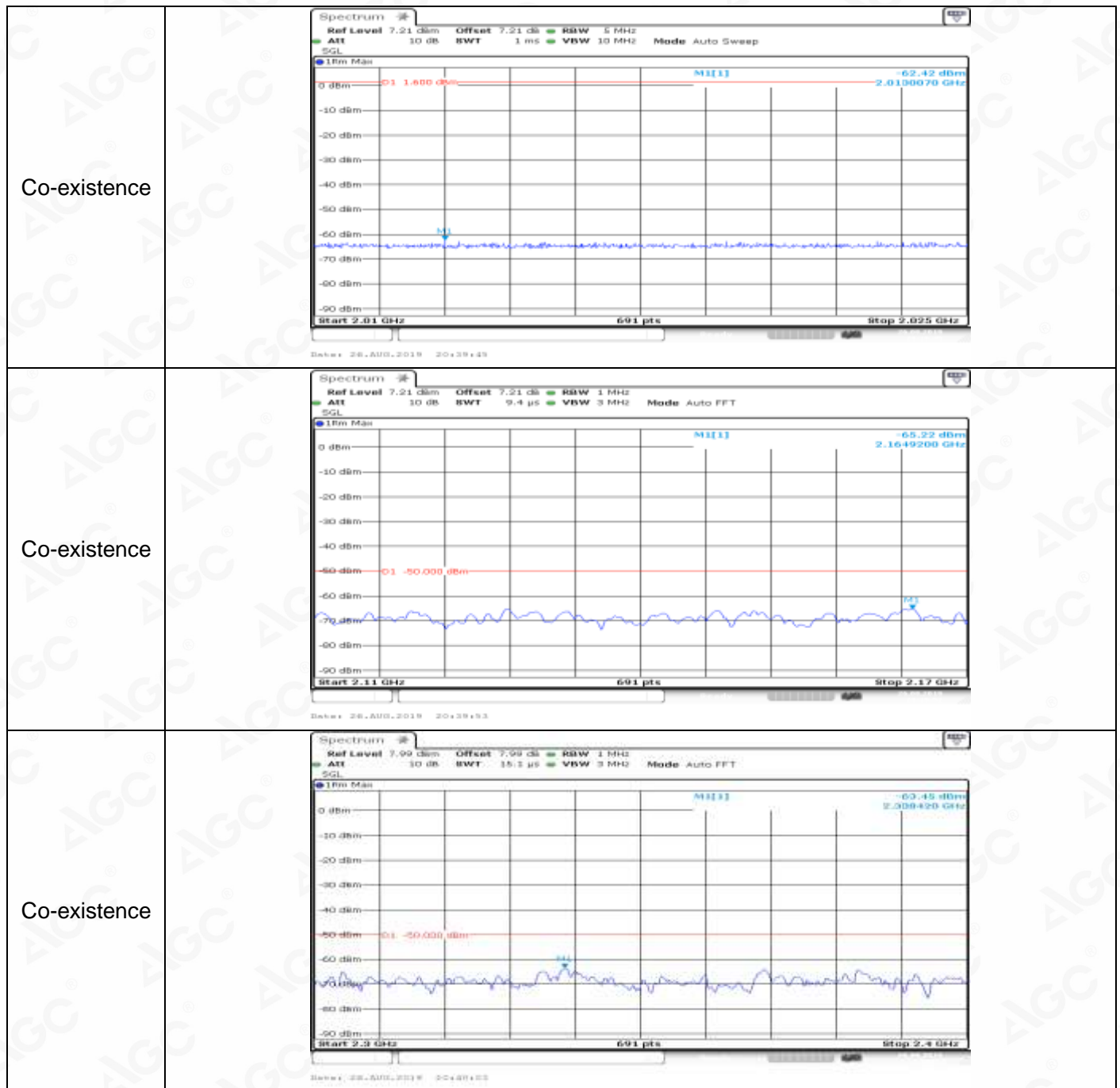
General	
General	
General	

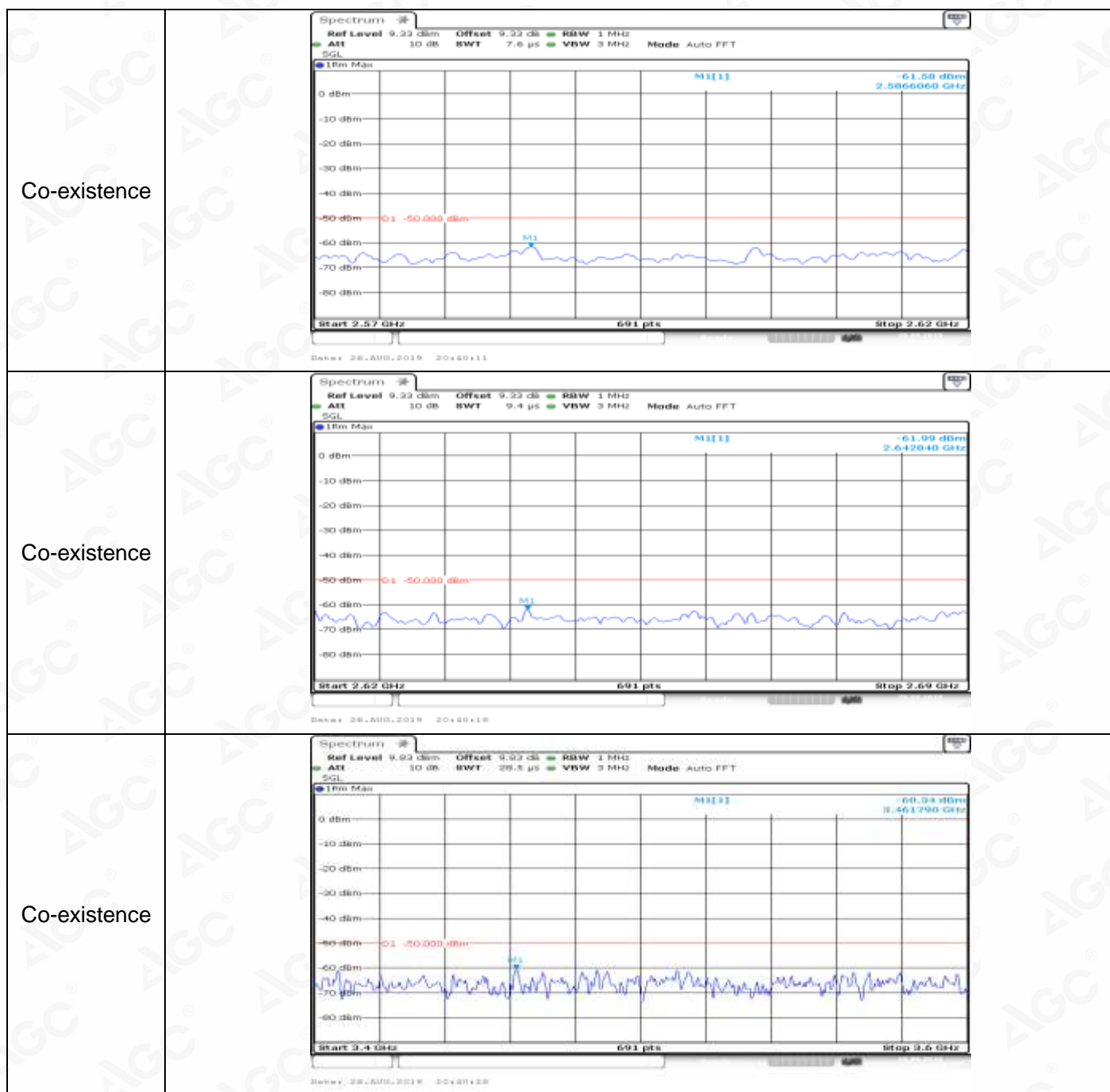


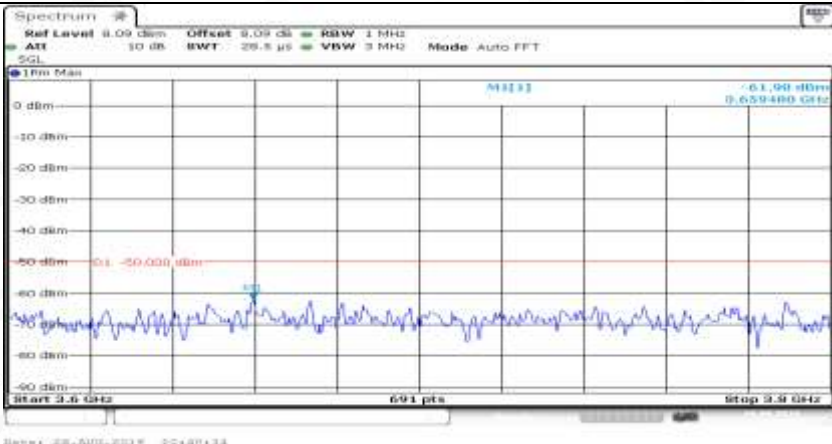
General	
General	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

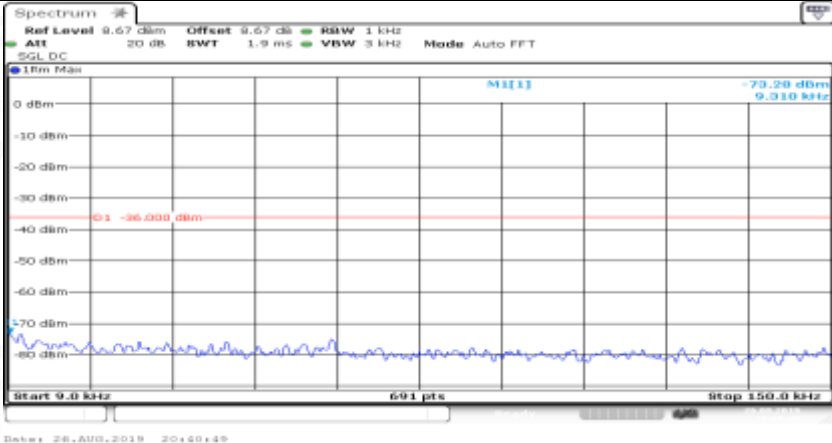


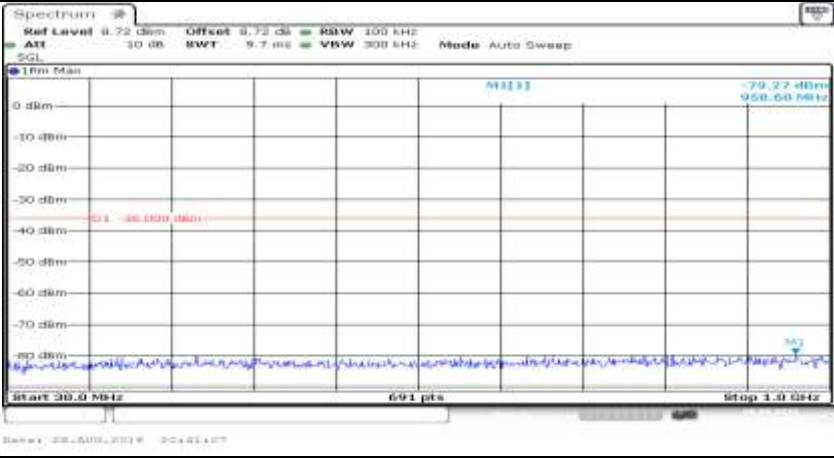
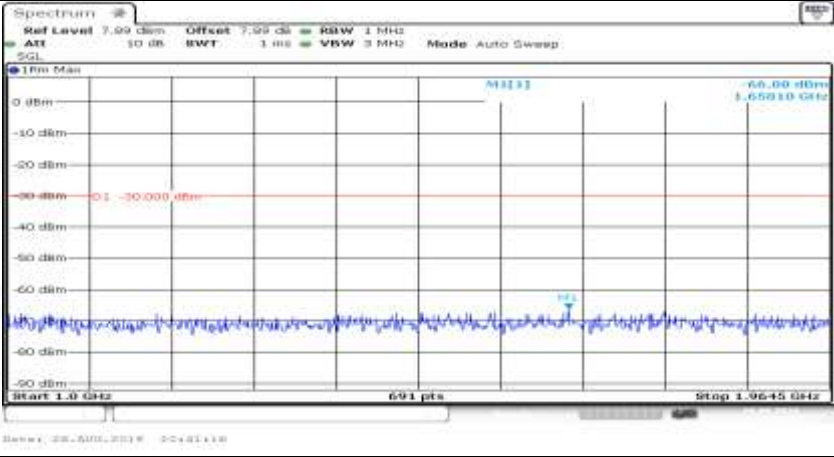
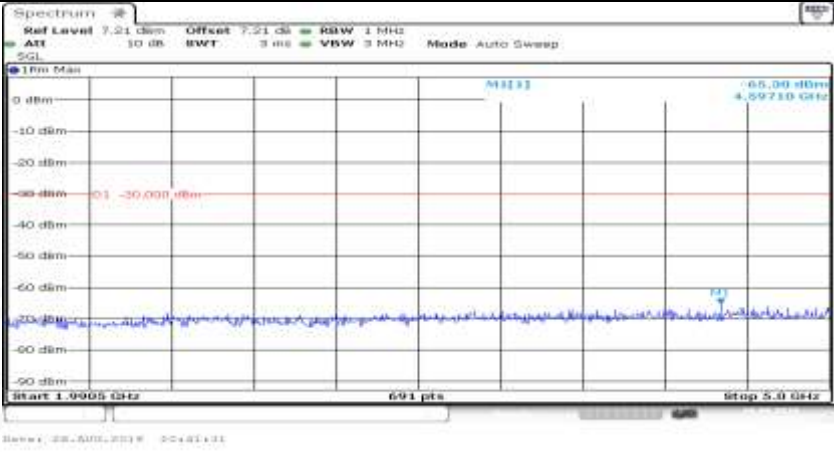


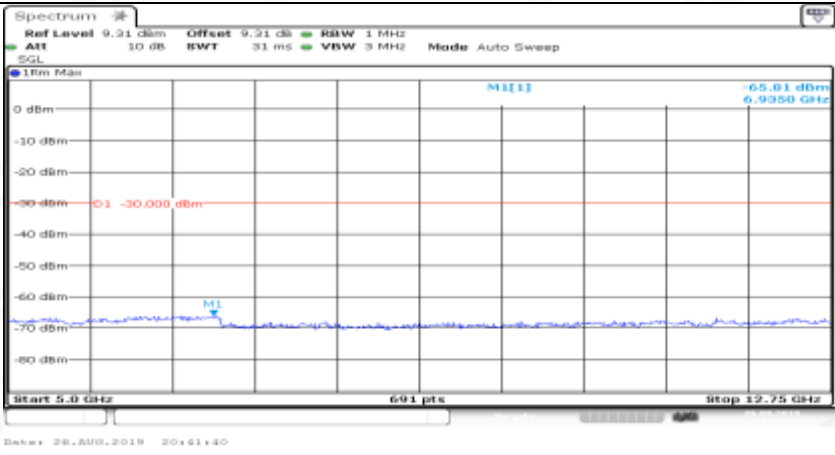
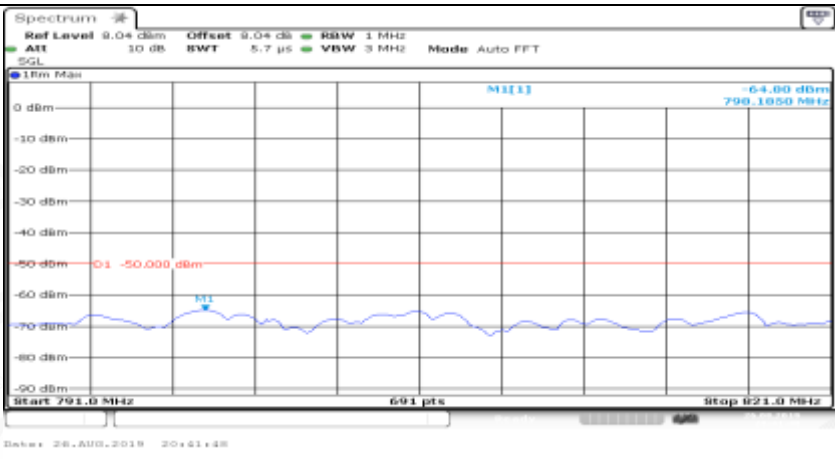




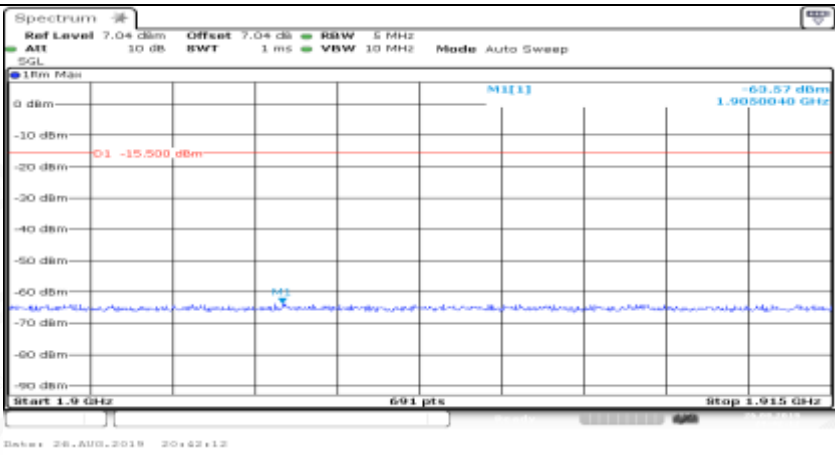
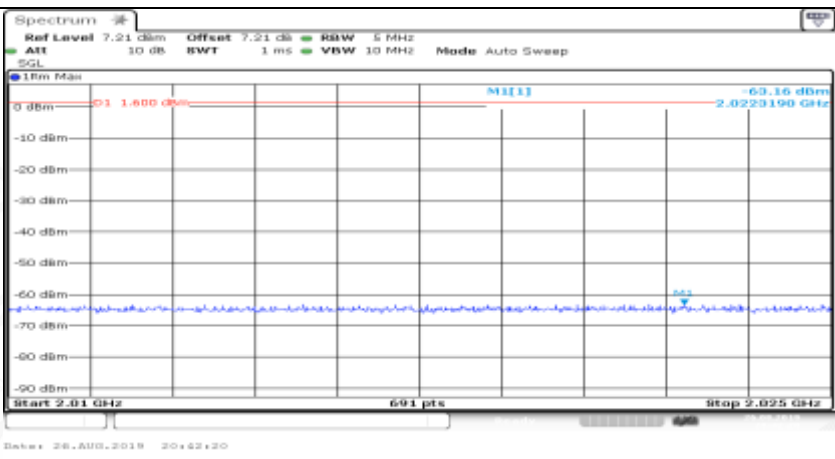
Co-existence	
Additional	NA

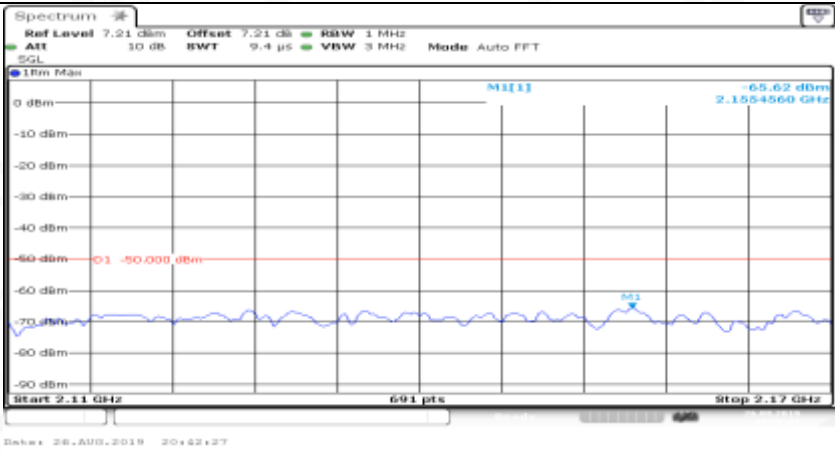

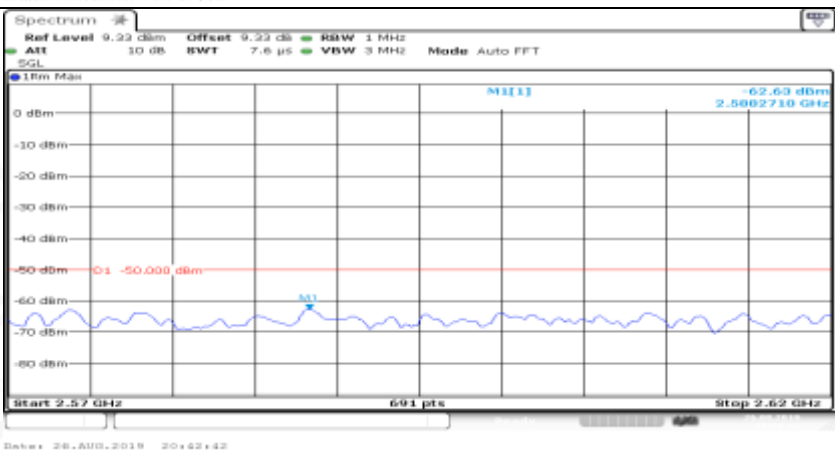
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0

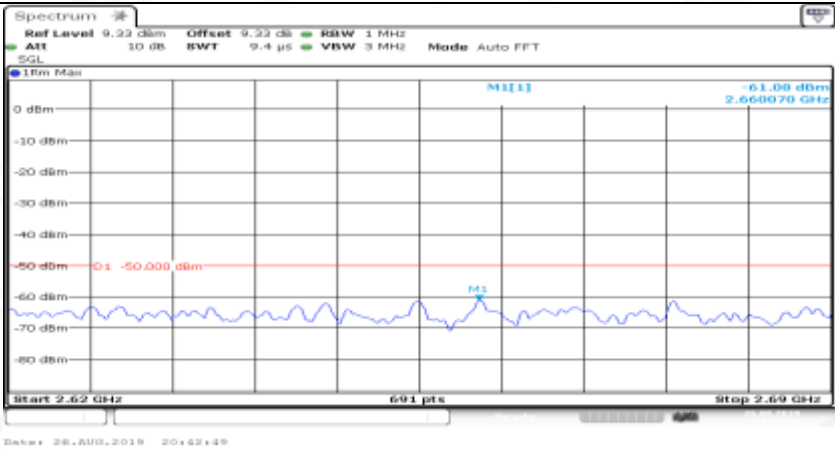
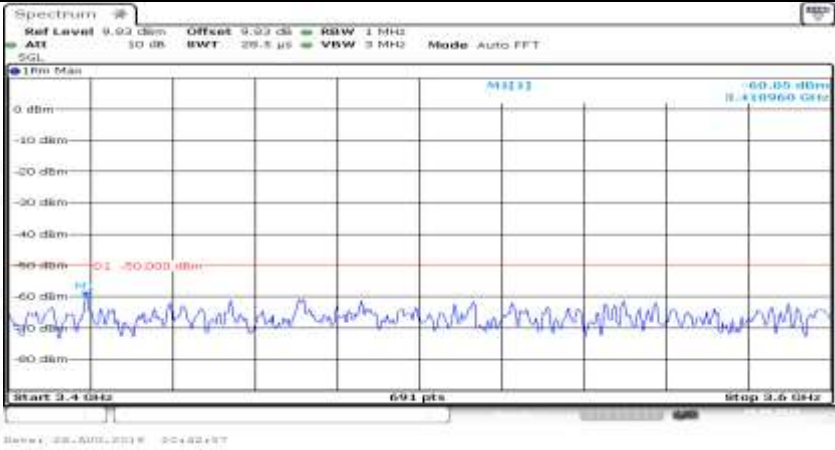
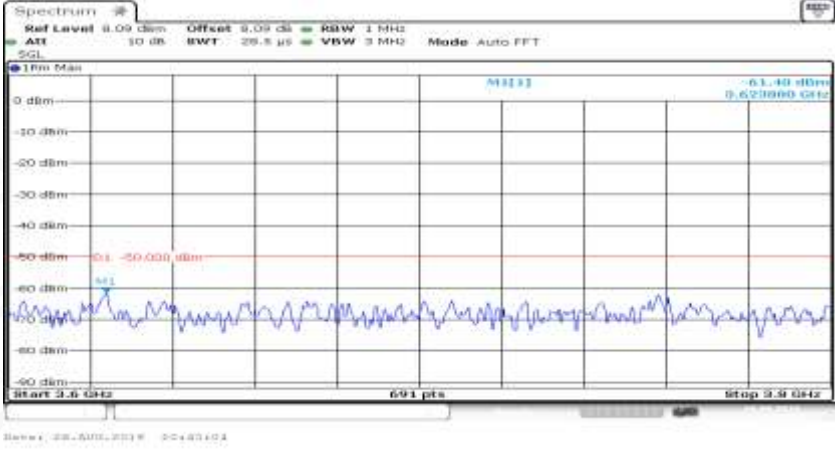
General	
General	

General	
General	
General	

General	
Co-existence	
Co-existence	

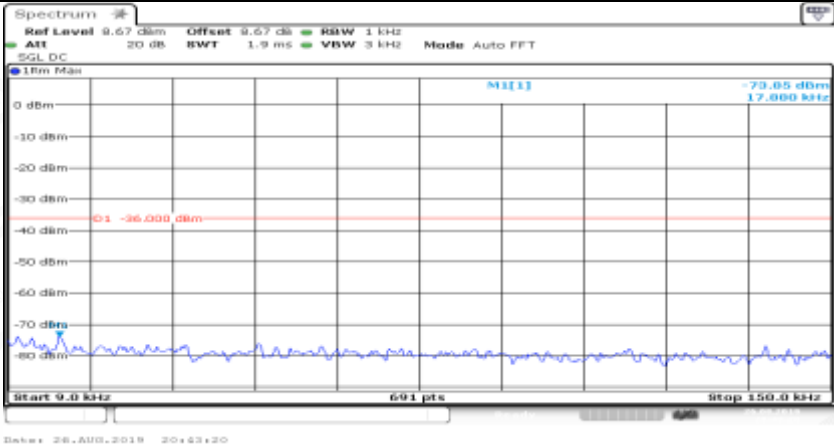
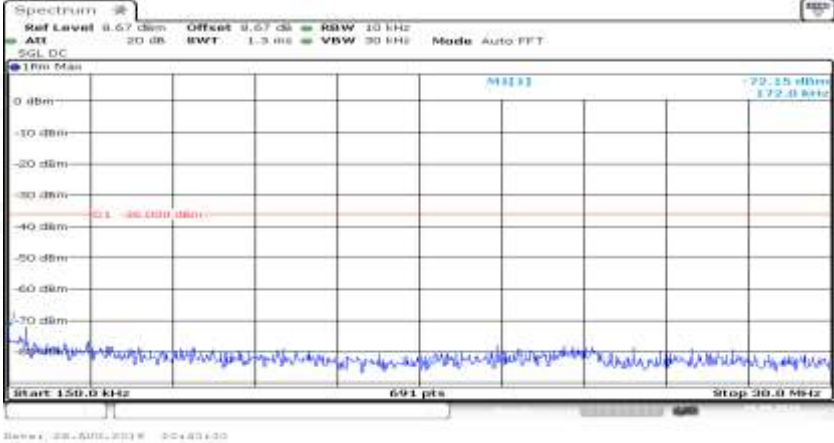
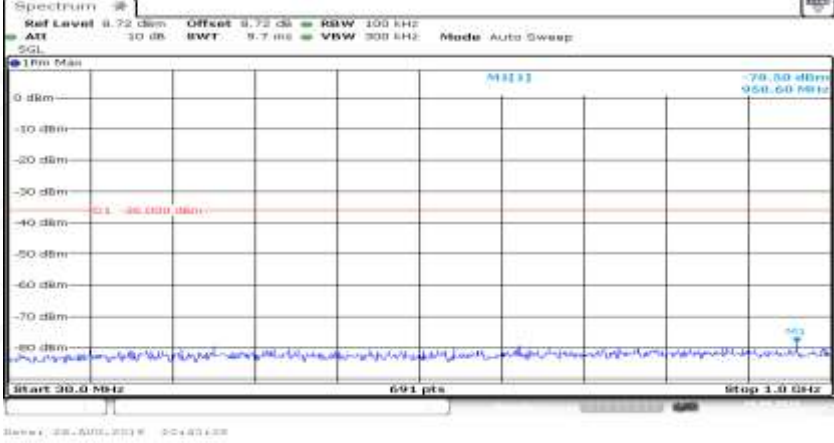
Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (20 MHz)

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

General	 <p>Spectrum</p> <p>Ref Level 9.67 dBm Offset 9.67 dB BW 1 kHz</p> <p>Att 20 dB SWT 1.9 ms VBW 3 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 9.0 kHz</p> <p>691 pts</p> <p>Stop 150.0 kHz</p> <p>73.05 dBm</p> <p>17.000 kHz</p> <p>28-AUG-2019 20:43:20</p>
General	 <p>Spectrum</p> <p>Ref Level 9.67 dBm Offset 9.67 dB BW 10 kHz</p> <p>Att 20 dB SWT 1.3 ms VBW 30 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 150.0 kHz</p> <p>691 pts</p> <p>Stop 300.0 MHz</p> <p>72.15 dBm</p> <p>172.0 kHz</p> <p>28-AUG-2019 20:43:20</p>
General	 <p>Spectrum</p> <p>Ref Level 9.72 dBm Offset 9.72 dB BW 100 kHz</p> <p>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>SGL</p> <p>10m Max</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 300.0 MHz</p> <p>691 pts</p> <p>Stop 1.0 GHz</p> <p>70.50 dBm</p> <p>950.60 MHz</p> <p>28-AUG-2019 20:43:20</p>



Attestation of Global Compliance

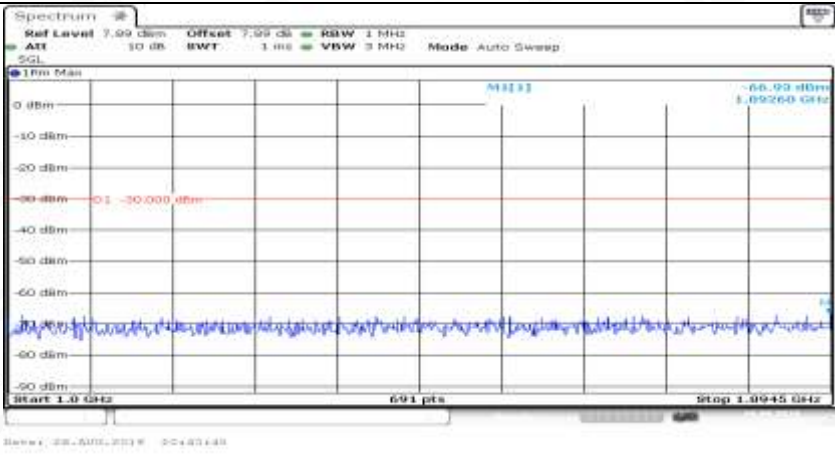
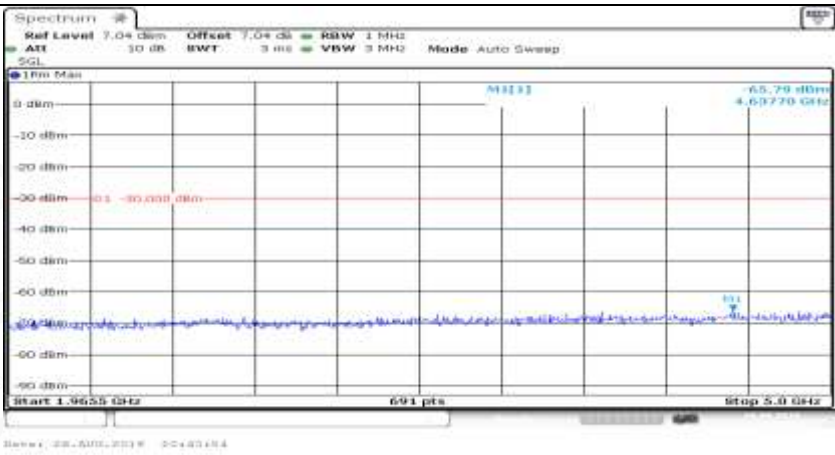
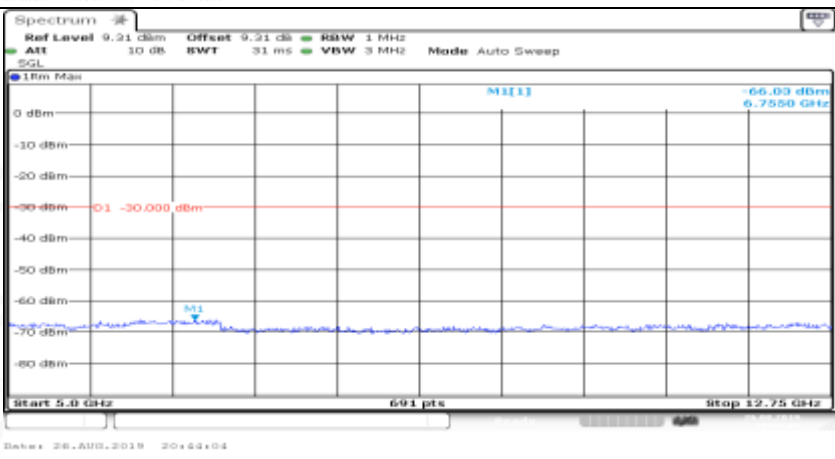
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

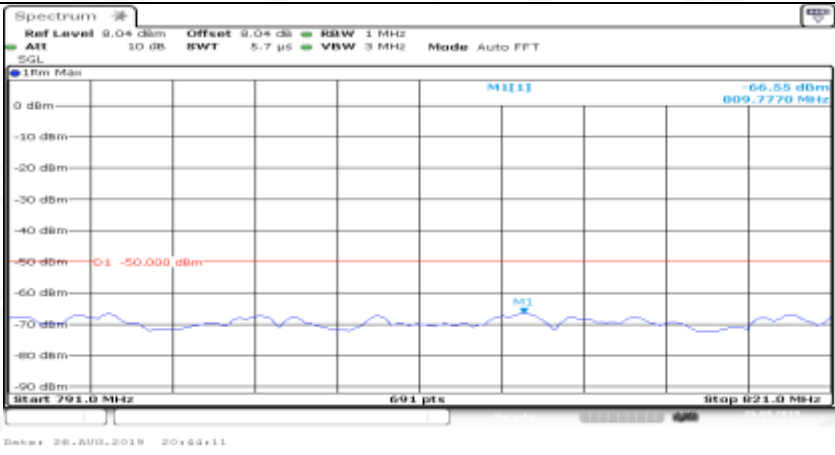
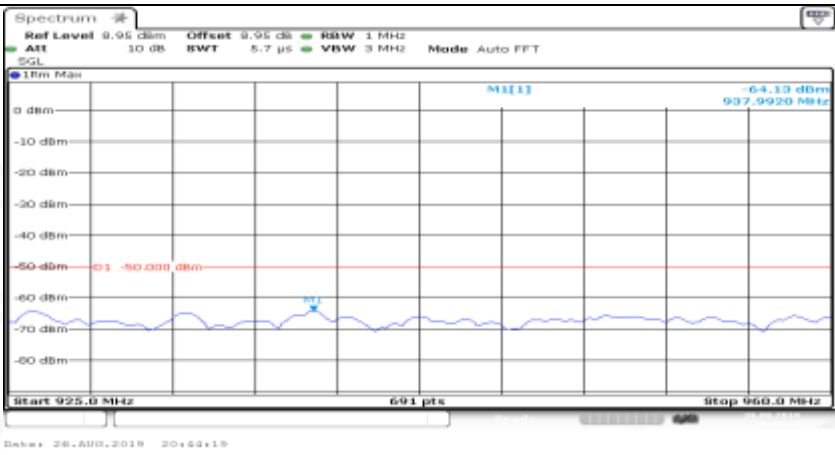

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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

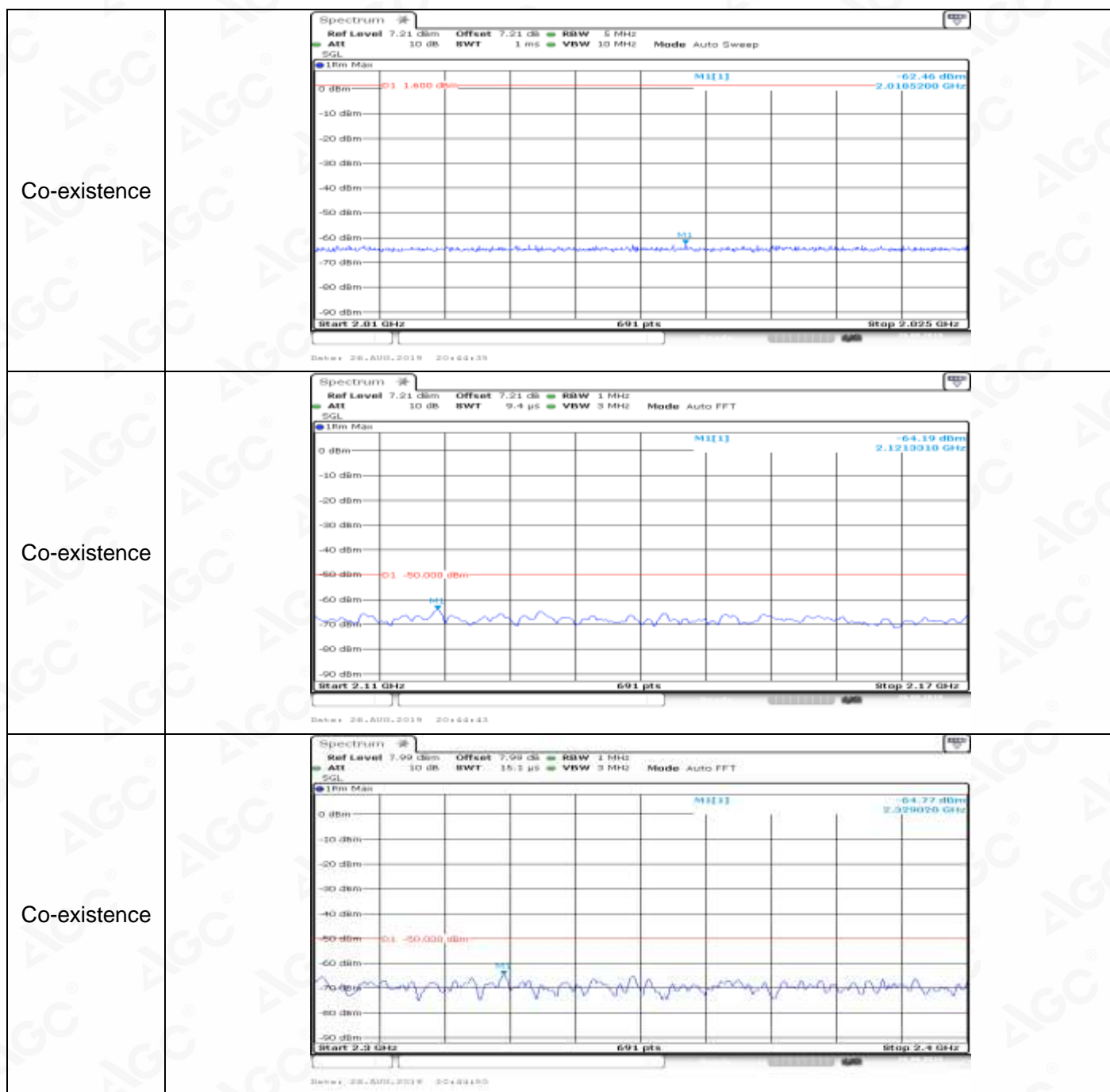
Tel: +86-755 2523 4088

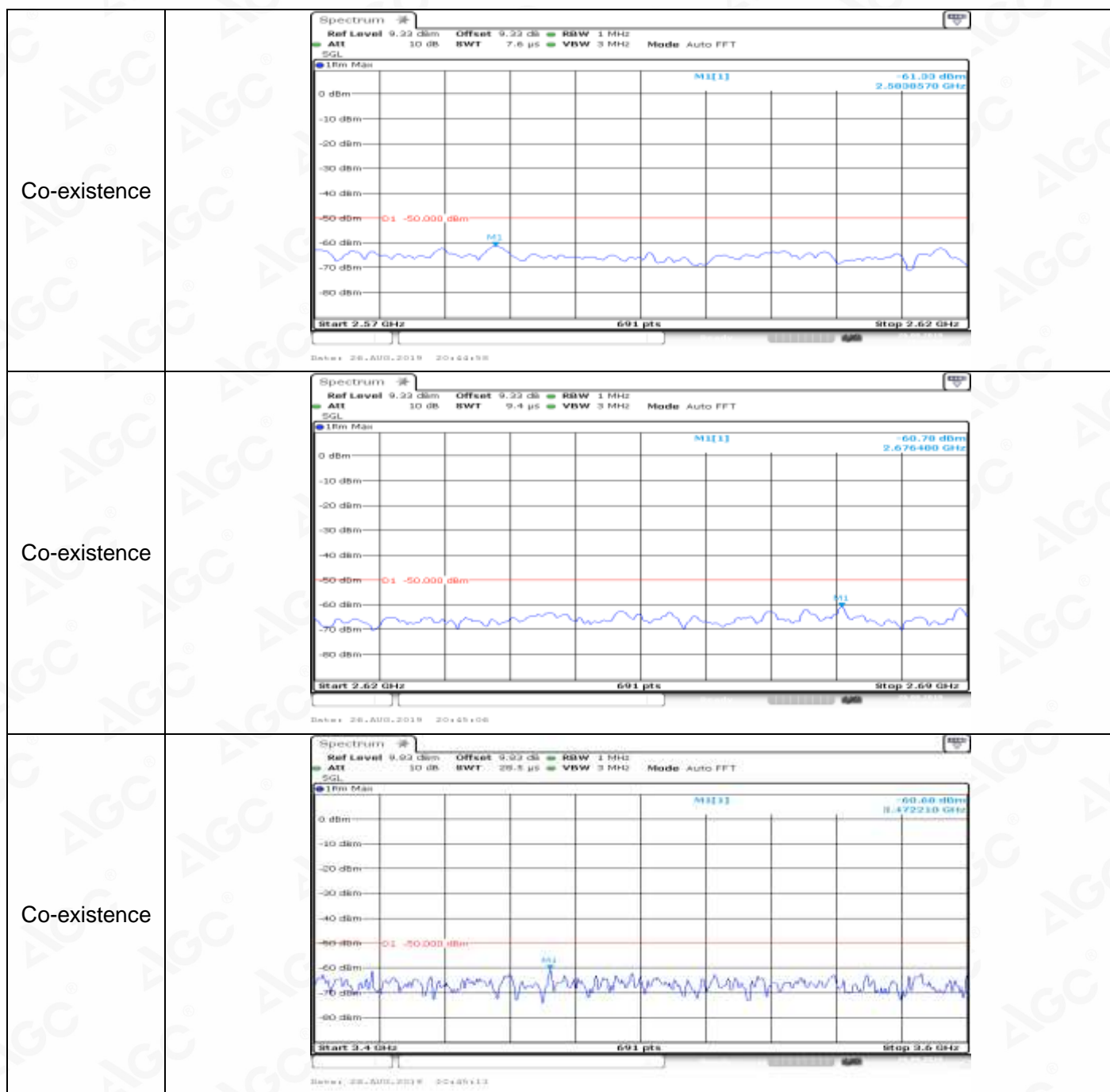
E-mail: agc@agc-cert.com

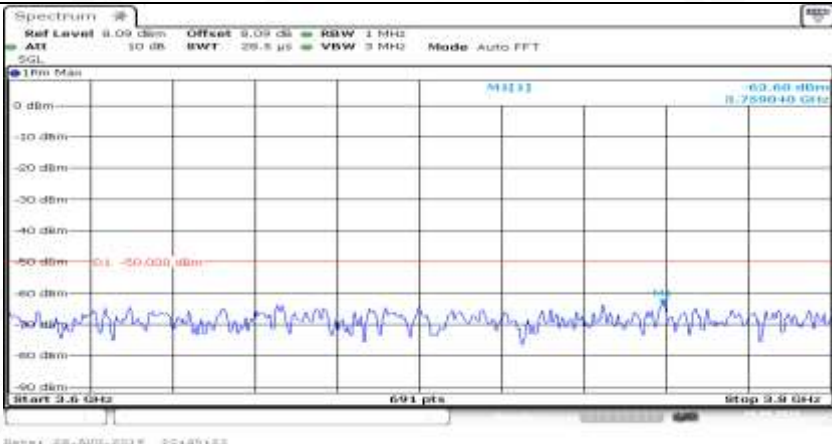
Service Hotline: 400 089 2118

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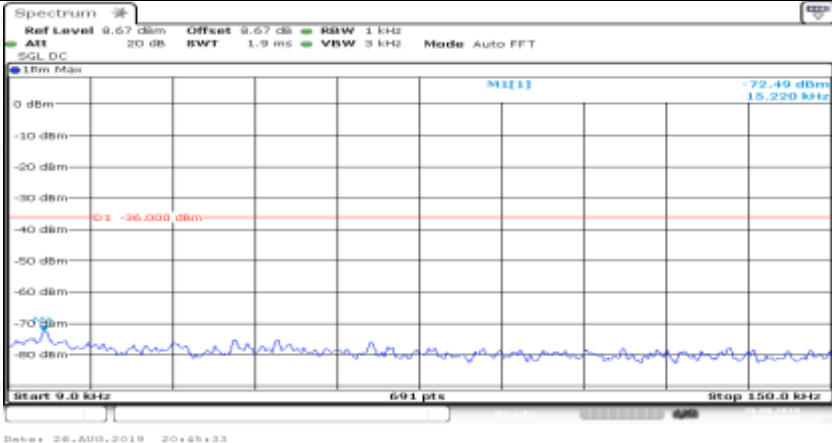
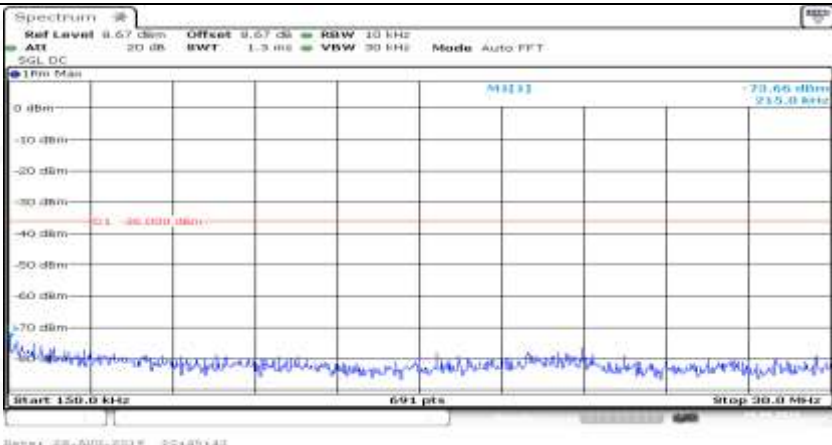
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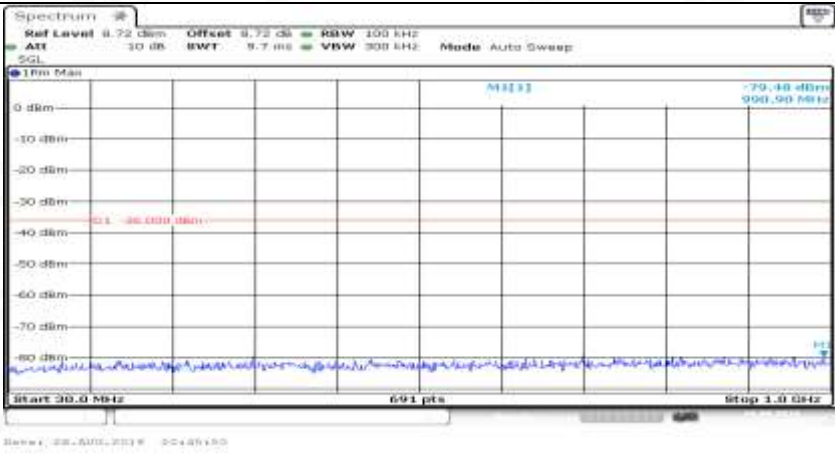
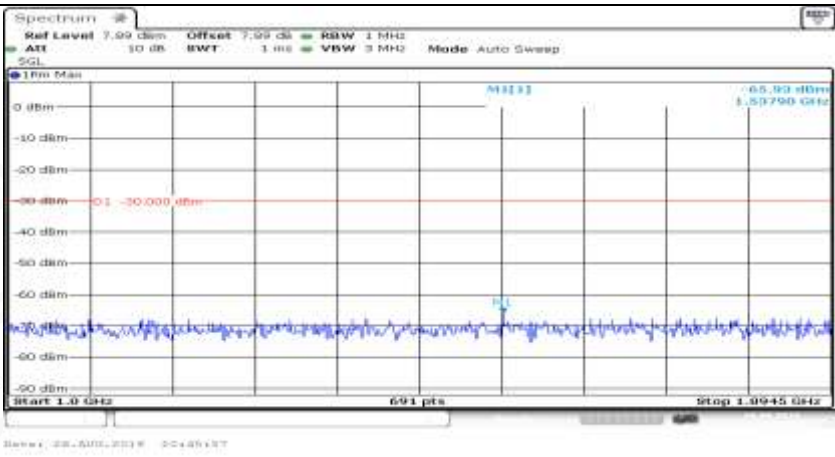
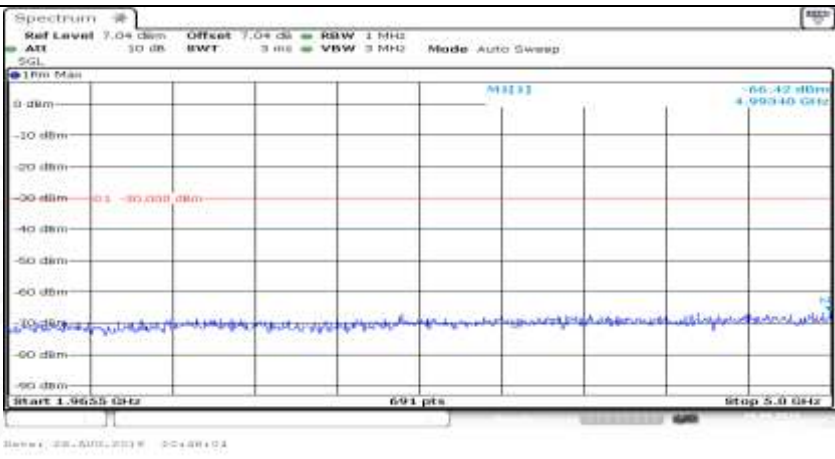


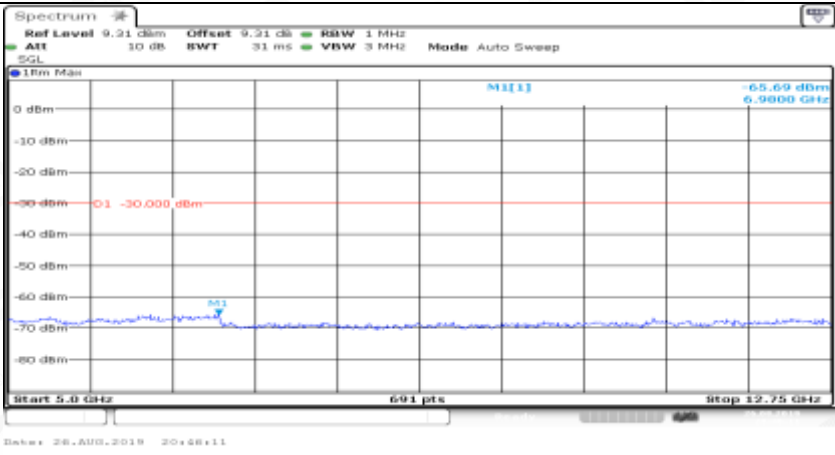
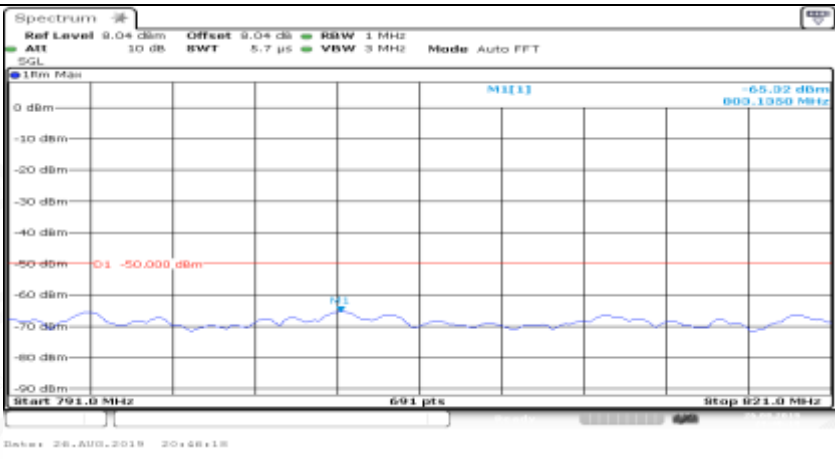
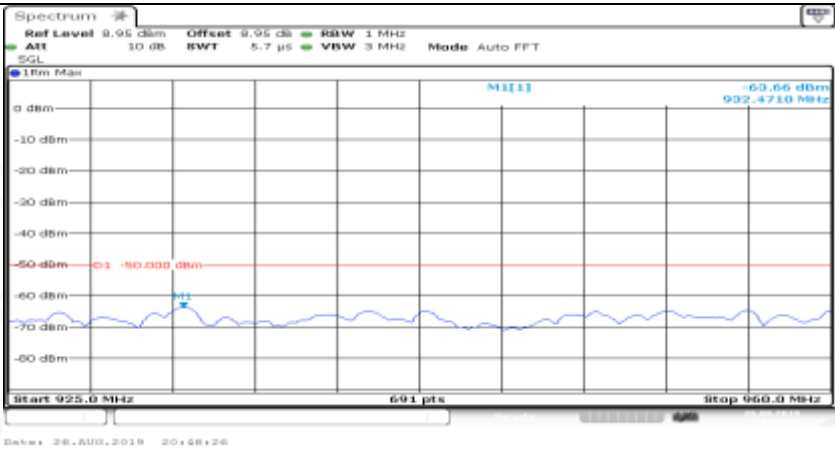



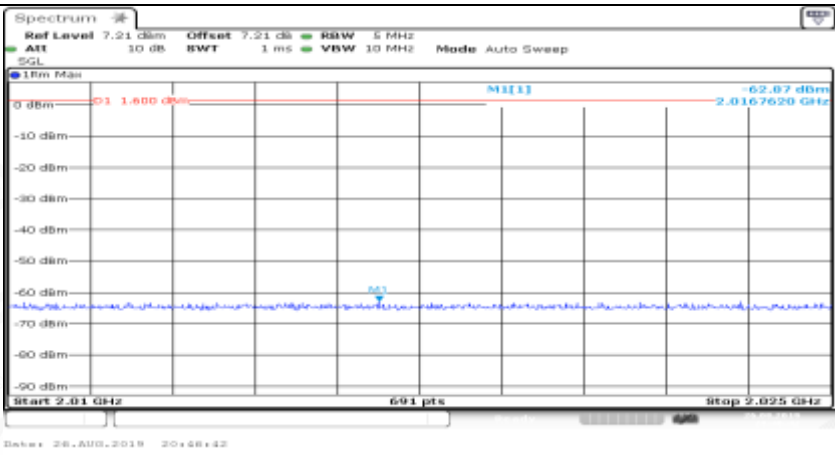

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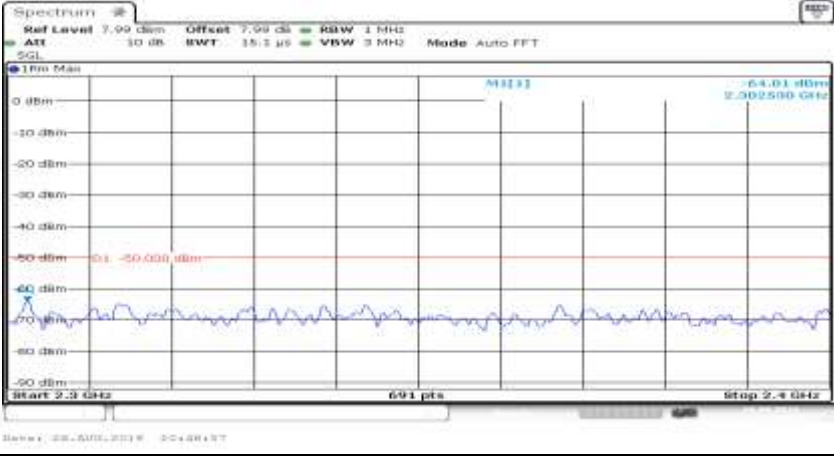
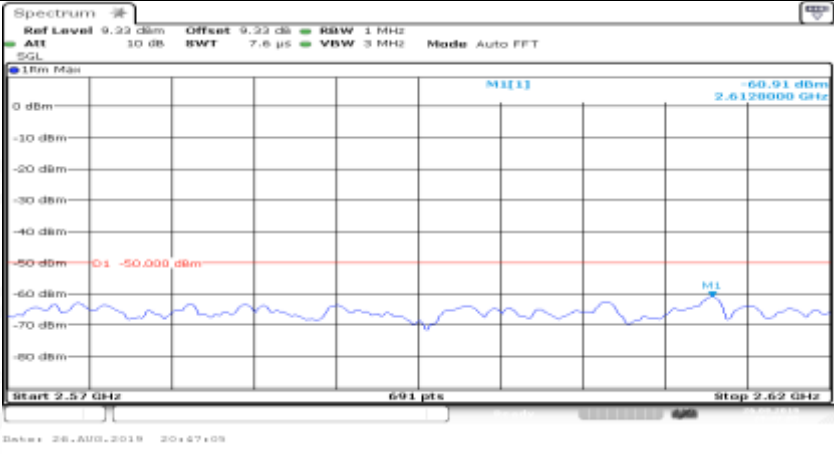
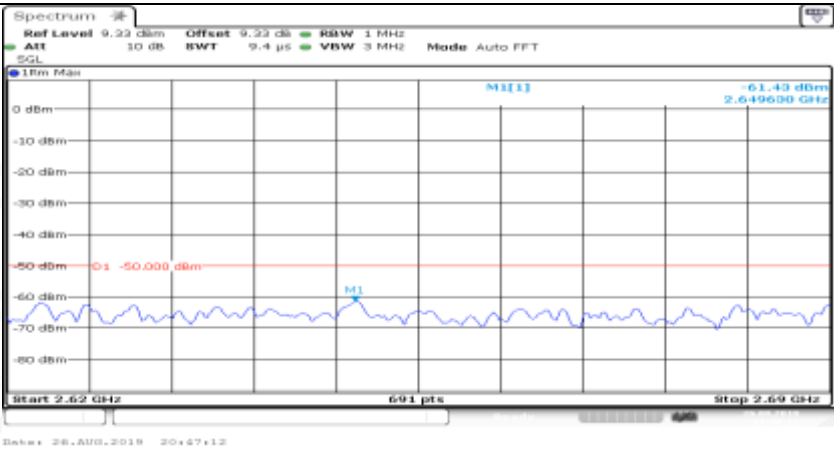
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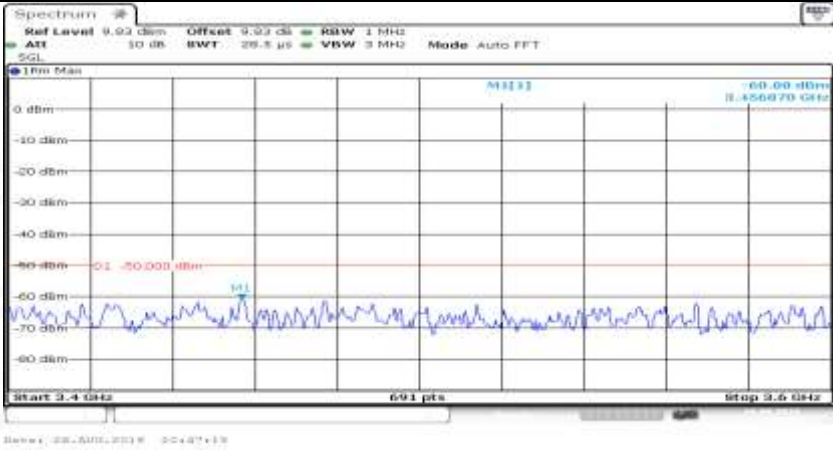
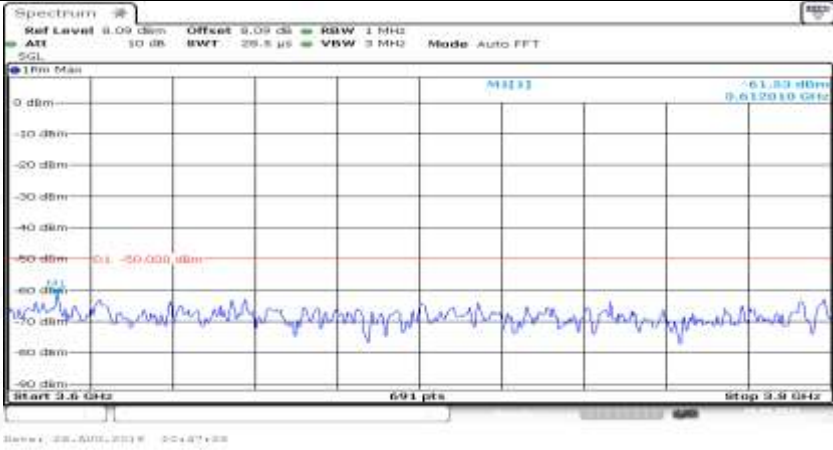
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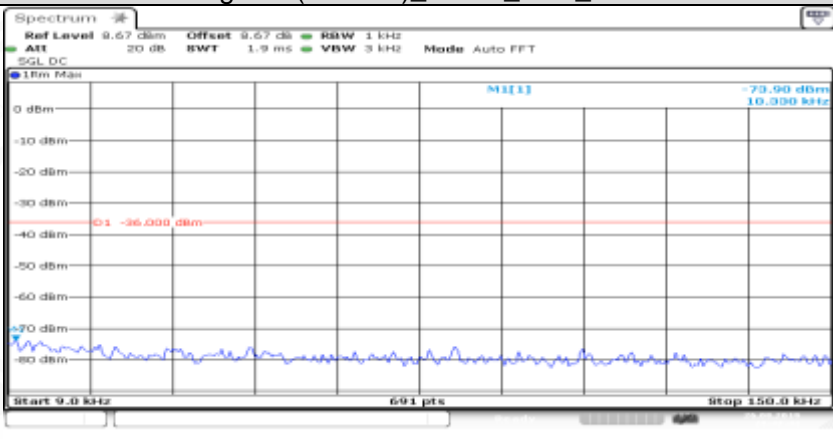
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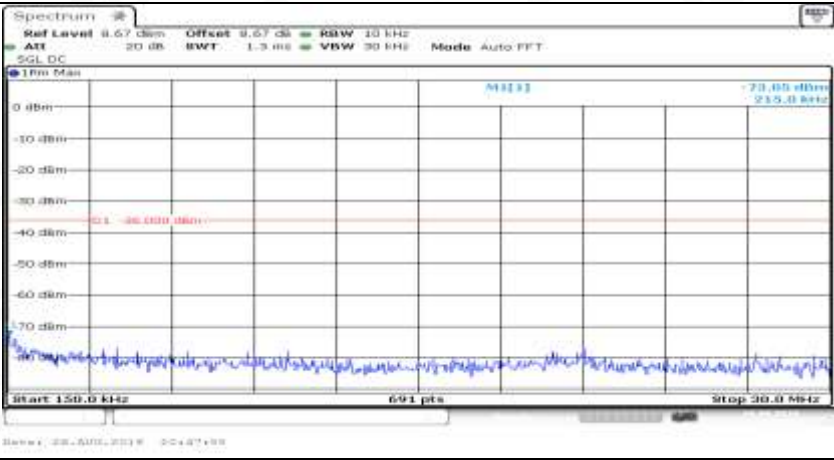
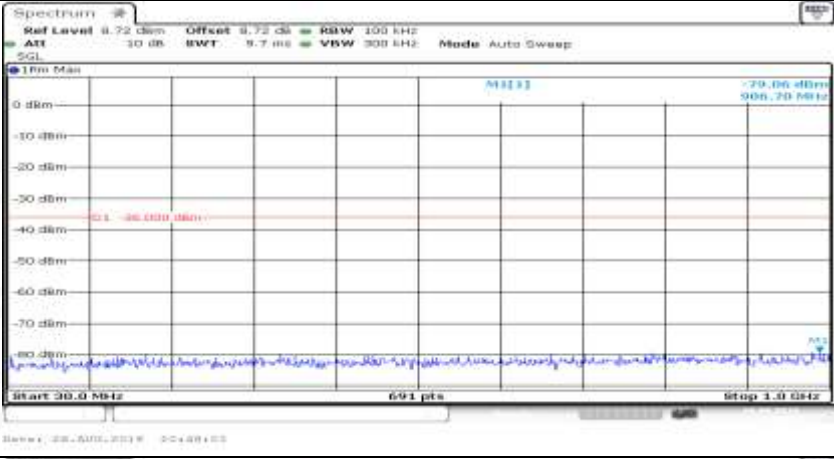
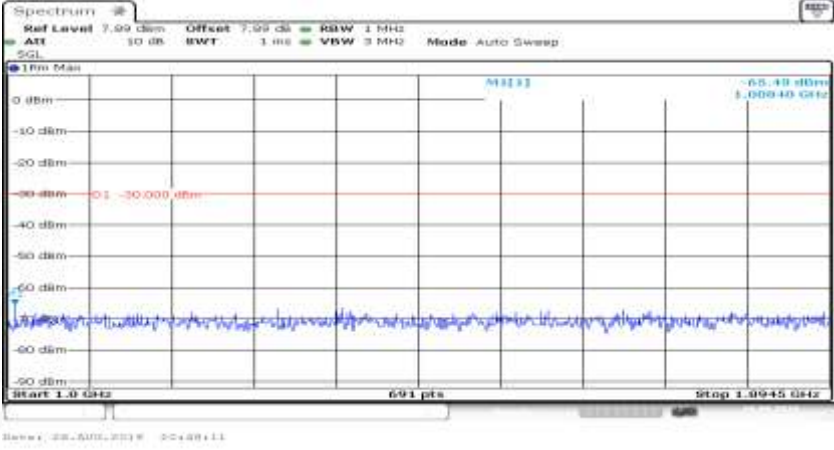
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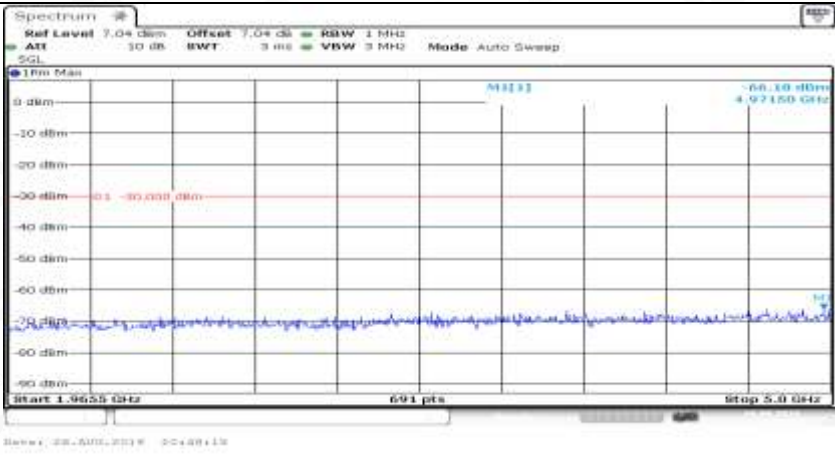
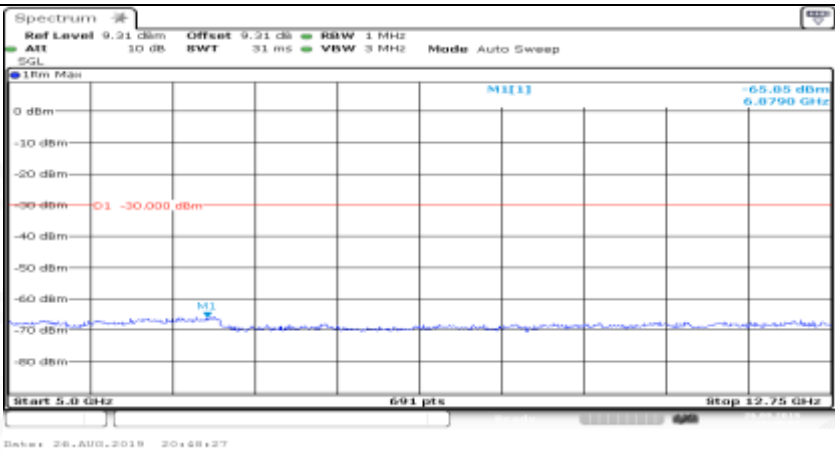
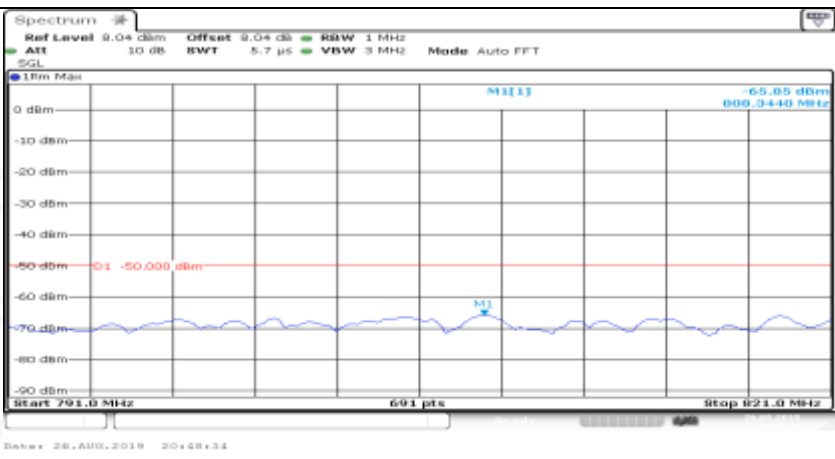
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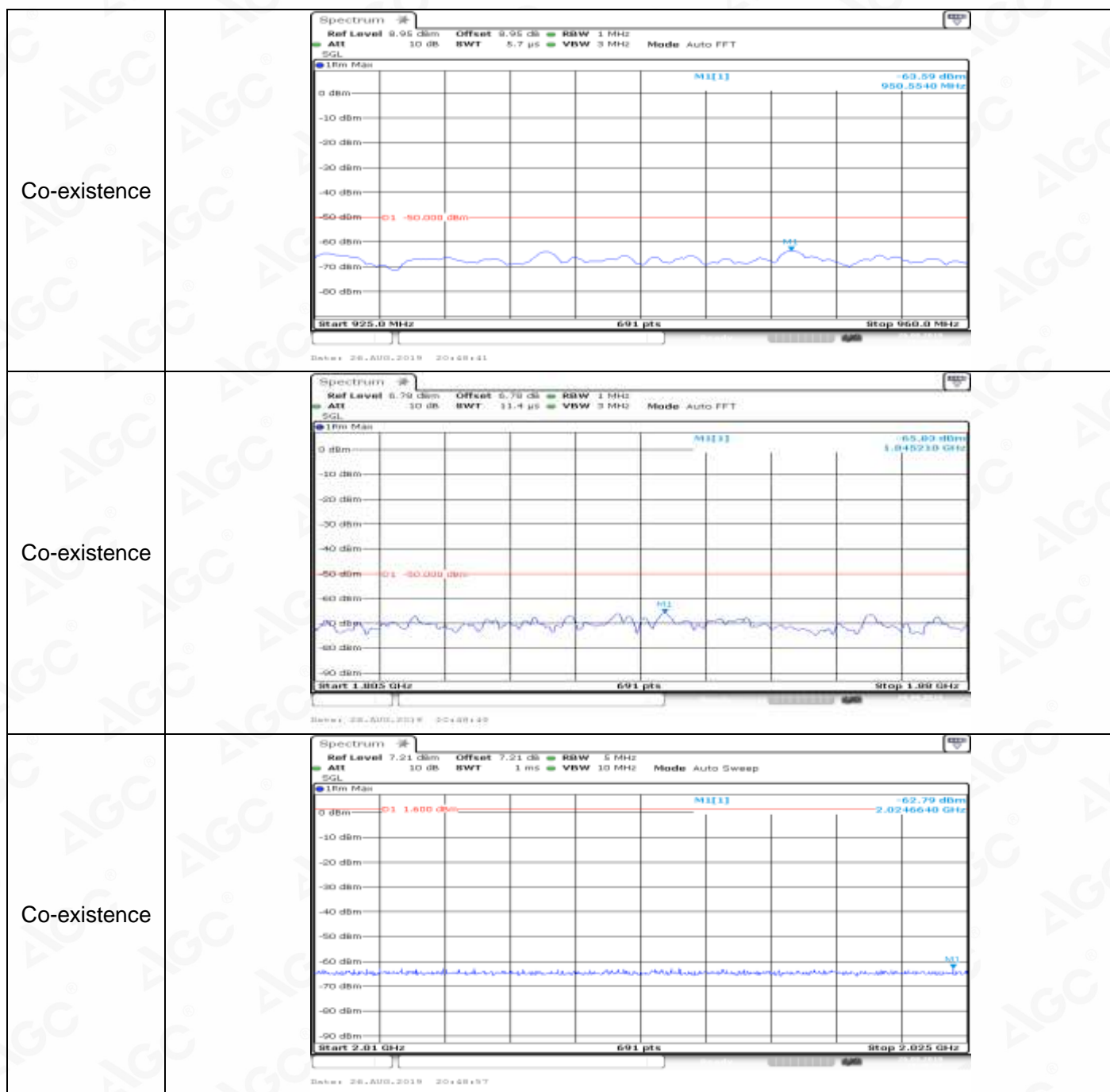
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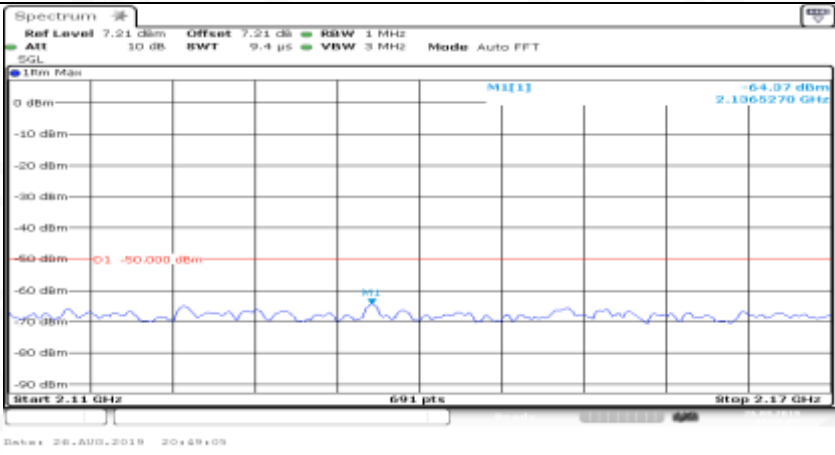
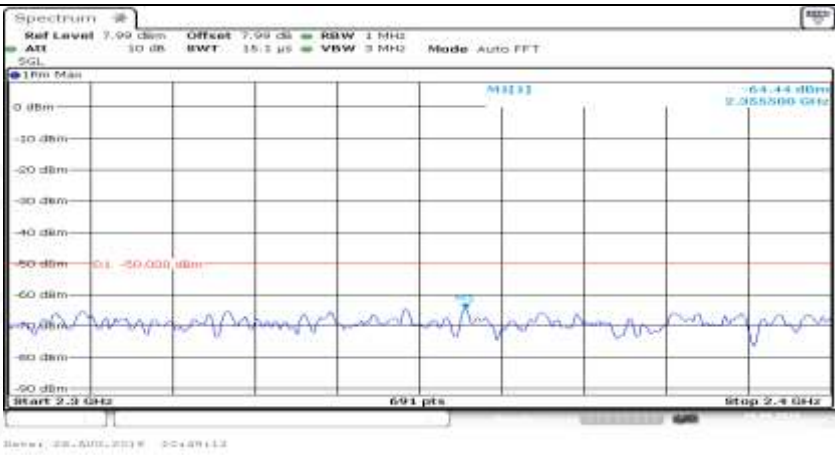
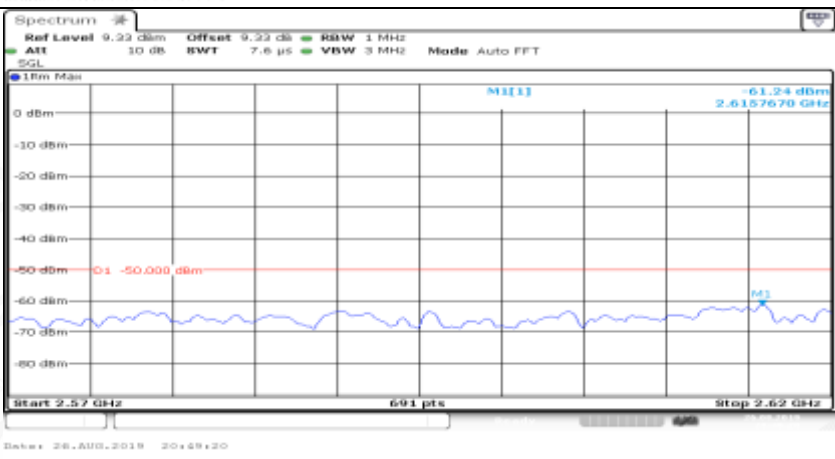
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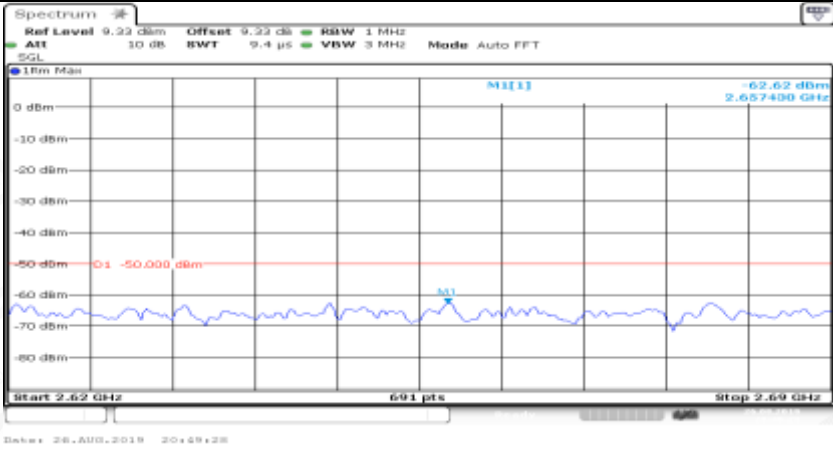
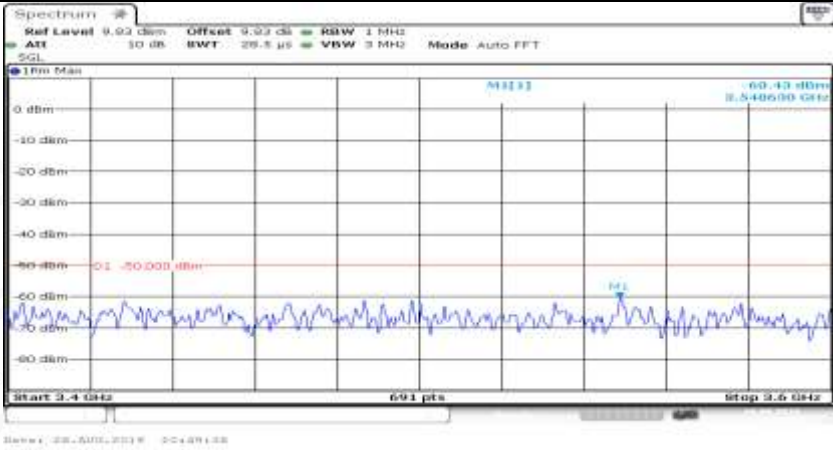
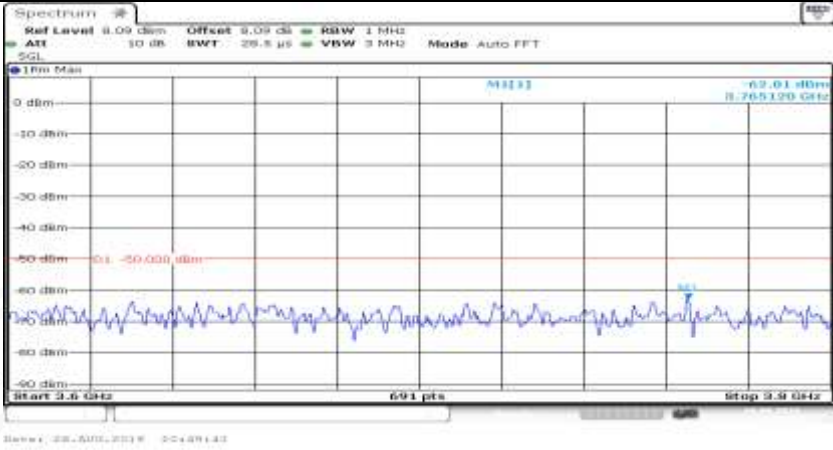
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullIRB#0	
General	

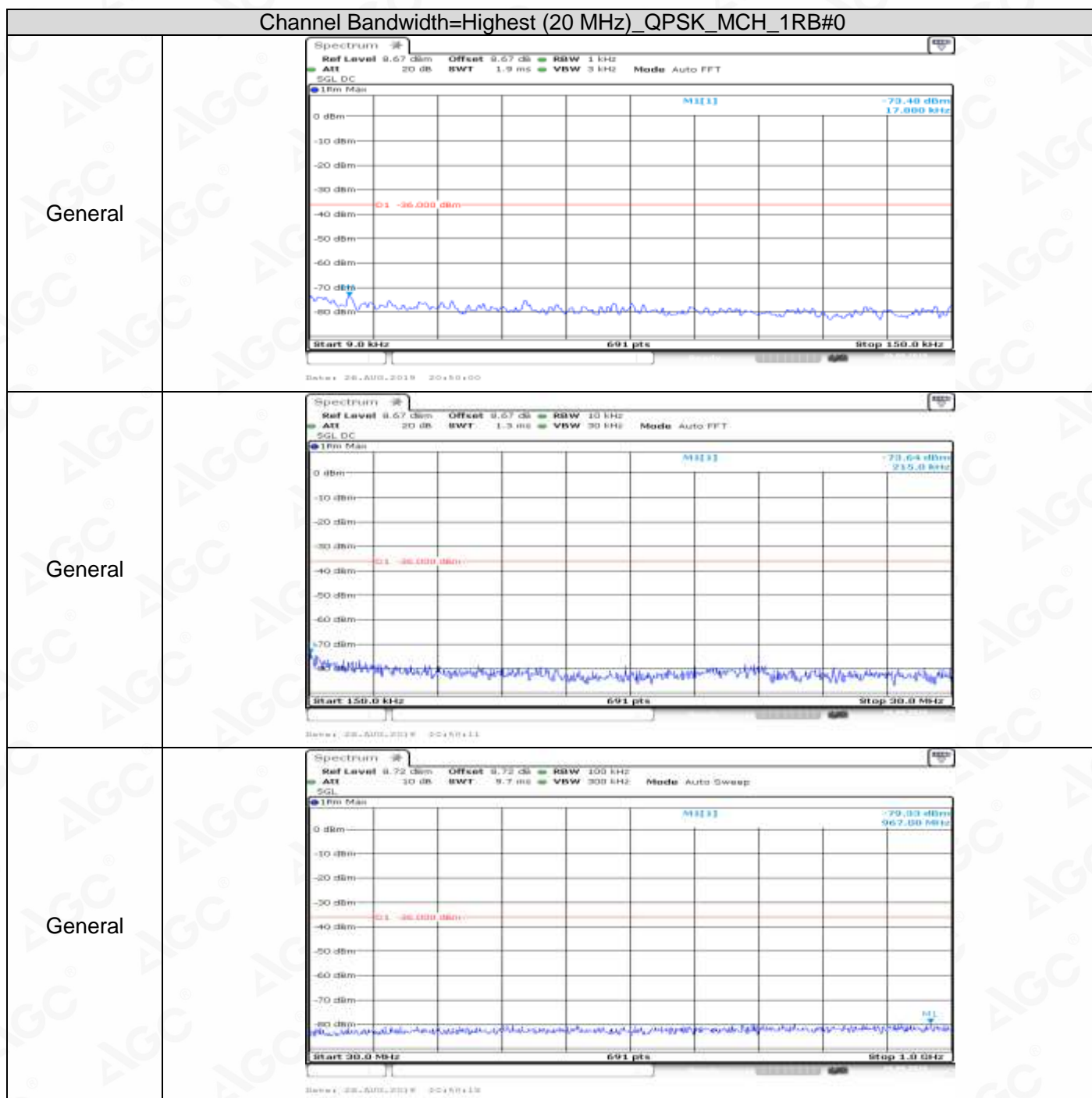
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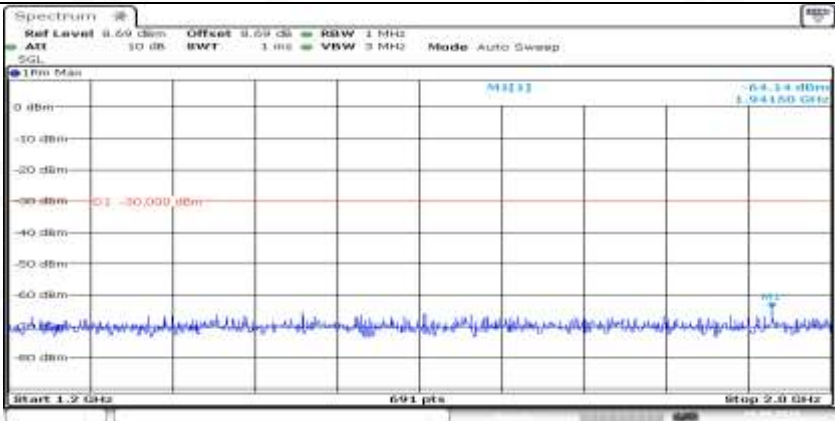
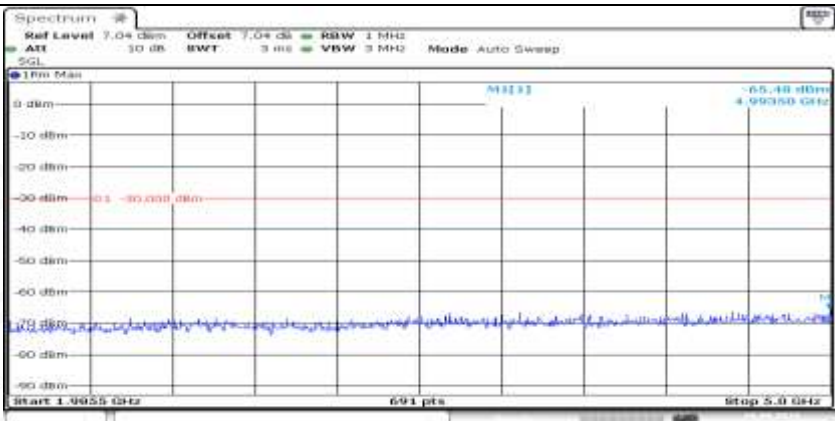
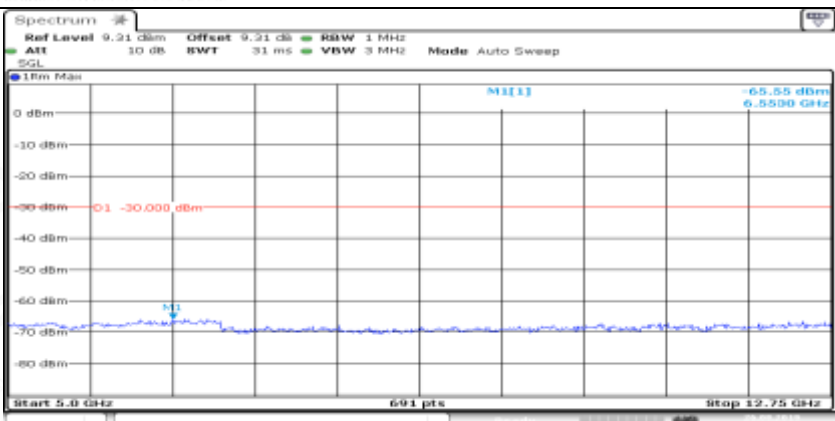
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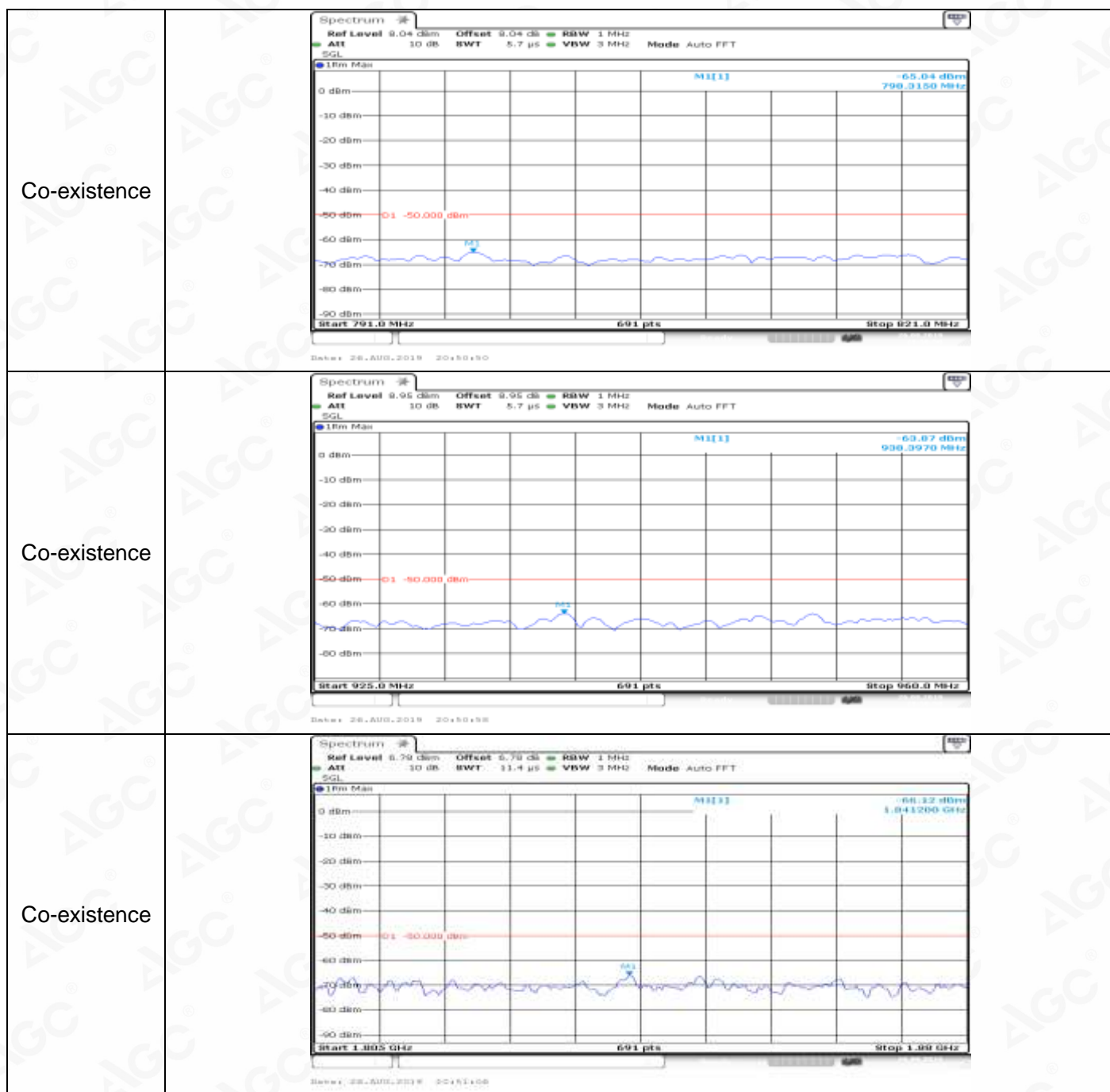


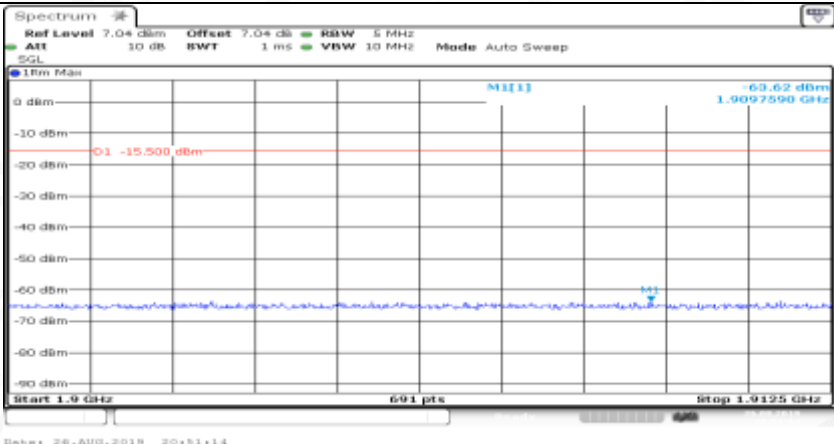
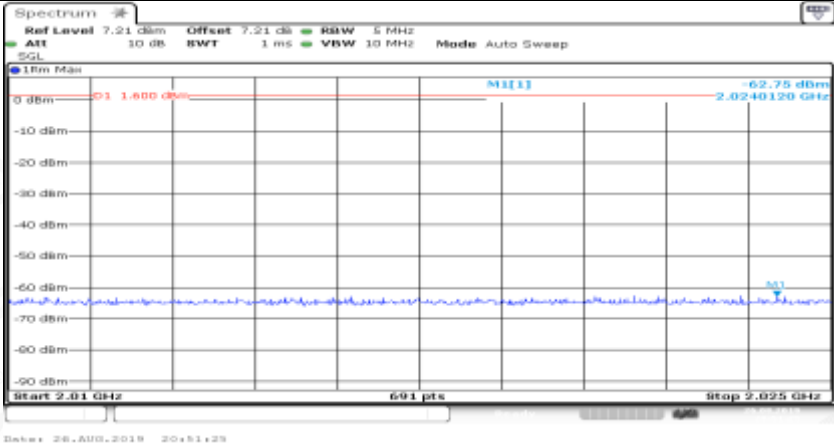
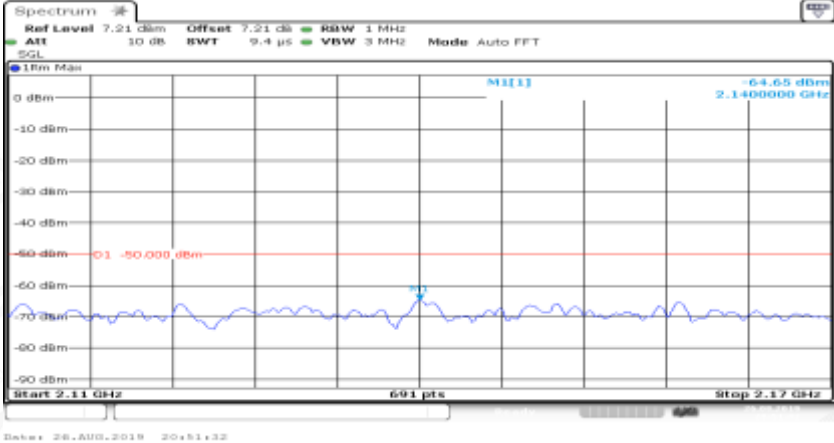
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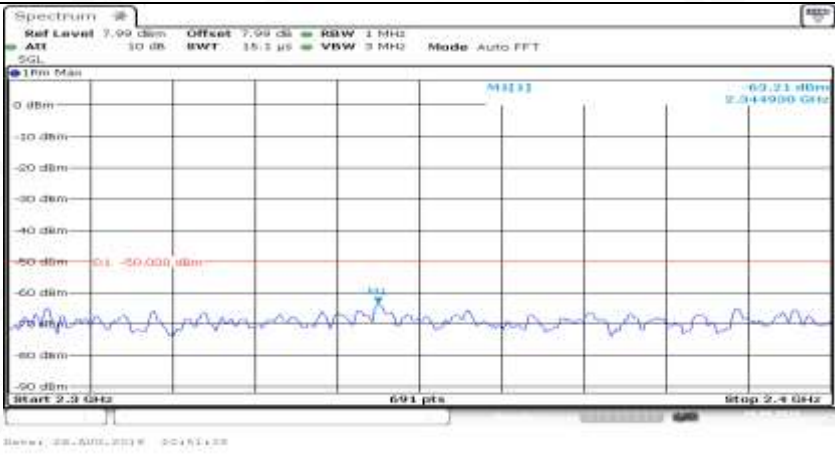
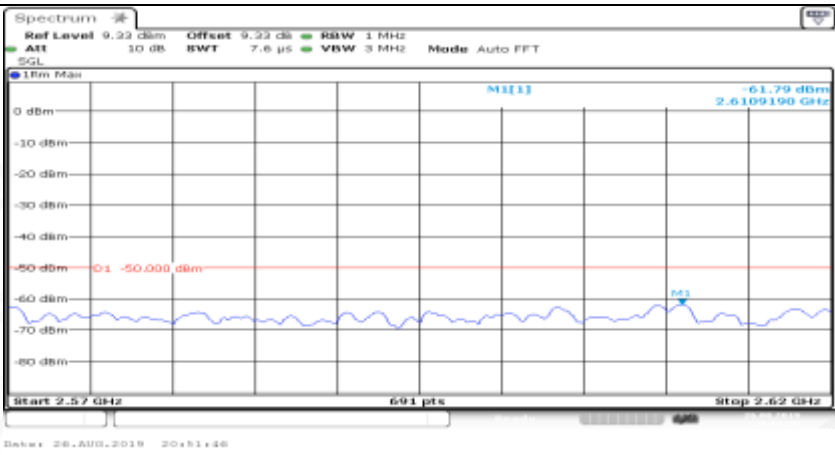
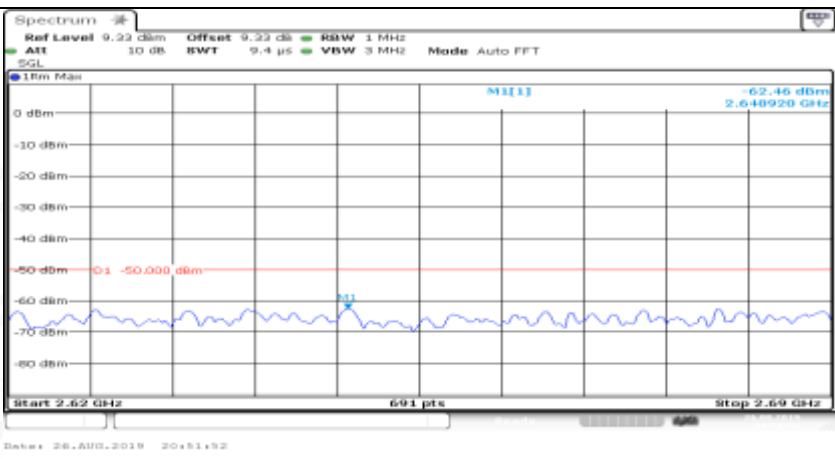


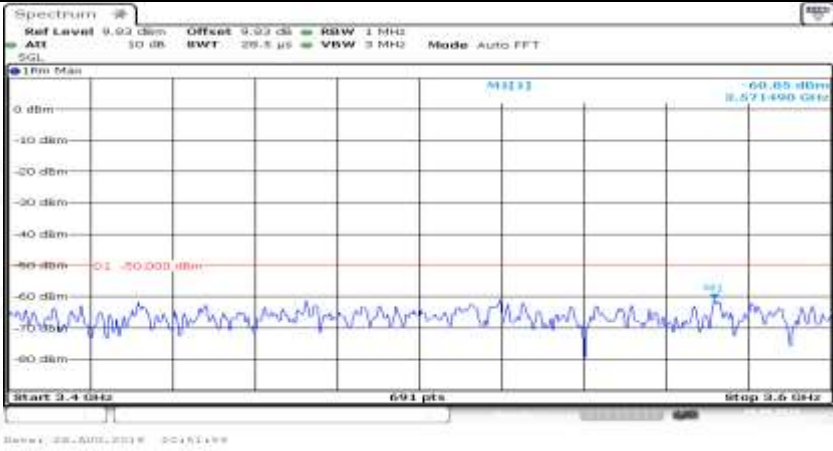
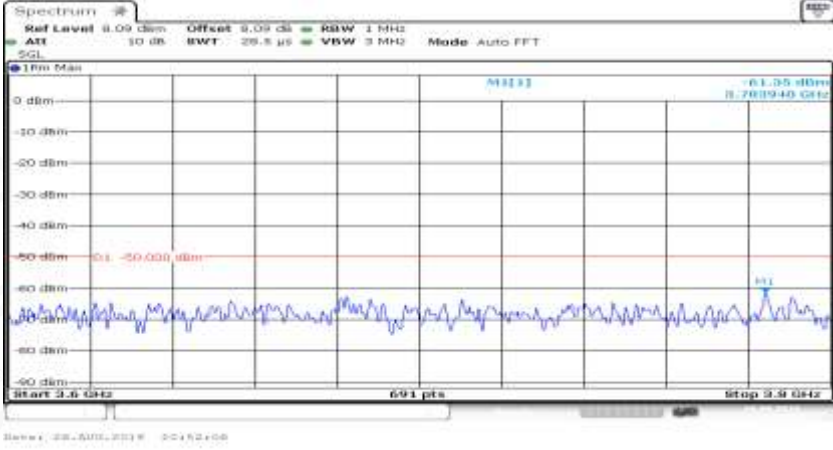
General	 <p>Spectrum plot showing a flat noise floor at approximately -65 dBm across the frequency range 1.2 GHz to 2.0 GHz. The plot includes a red line at -30.000 dBm and a blue line at -65.14 dBm. The x-axis is labeled 'Start 1.2 GHz' and 'Stop 2.0 GHz'. The y-axis is labeled 'dBm' with a scale from 0 to -80.</p>
General	 <p>Spectrum plot showing a flat noise floor at approximately -65 dBm across the frequency range 1.0055 GHz to 5.0 GHz. The plot includes a red line at -30.000 dBm and a blue line at -65.48 dBm. The x-axis is labeled 'Start 1.0055 GHz' and 'Stop 5.0 GHz'. The y-axis is labeled 'dBm' with a scale from 0 to -80.</p>
General	 <p>Spectrum plot showing a flat noise floor at approximately -65 dBm across the frequency range 5.0 GHz to 12.75 GHz. The plot includes a red line at -30.000 dBm and a blue line at -65.55 dBm. The x-axis is labeled 'Start 5.0 GHz' and 'Stop 12.75 GHz'. The y-axis is labeled 'dBm' with a scale from 0 to -80.</p>



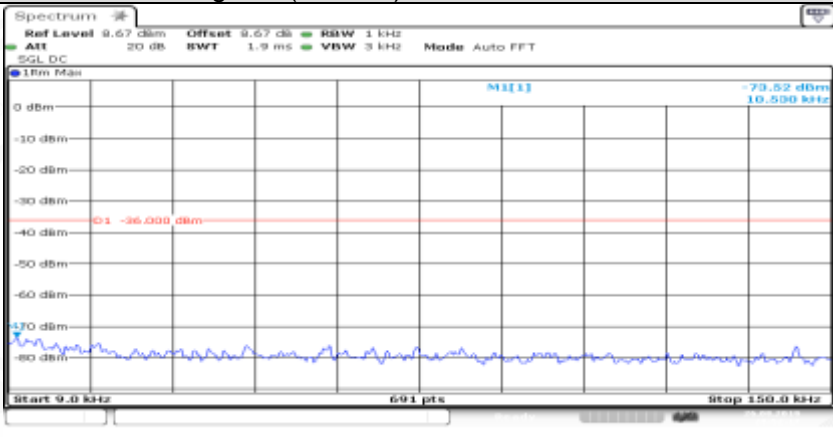
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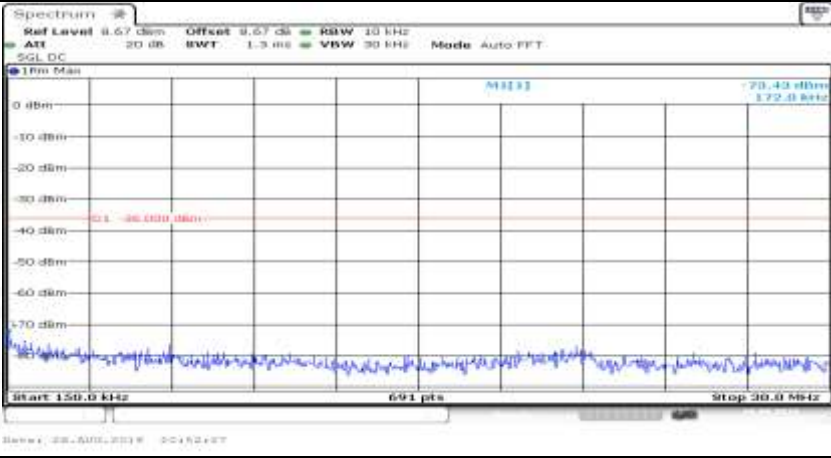

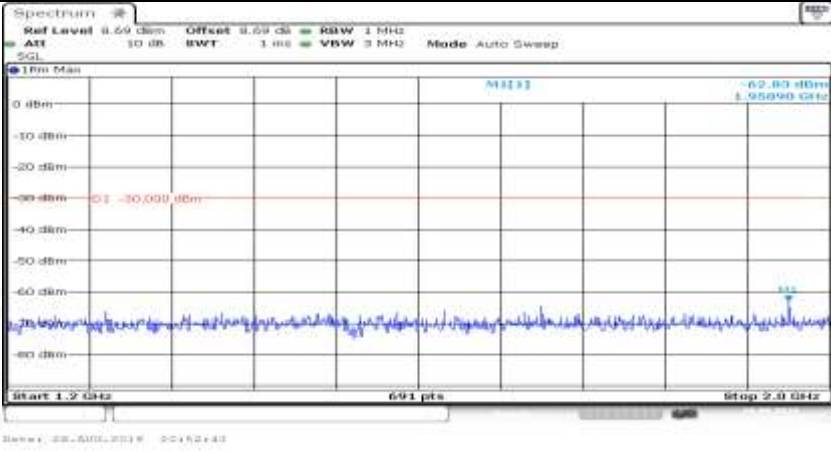


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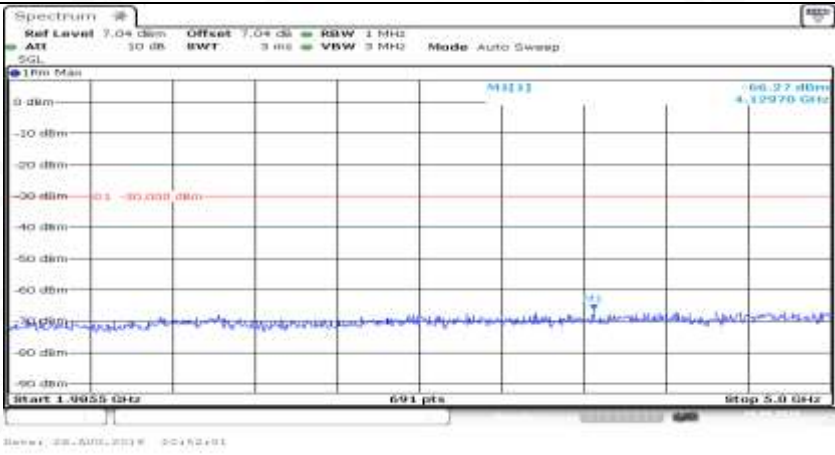
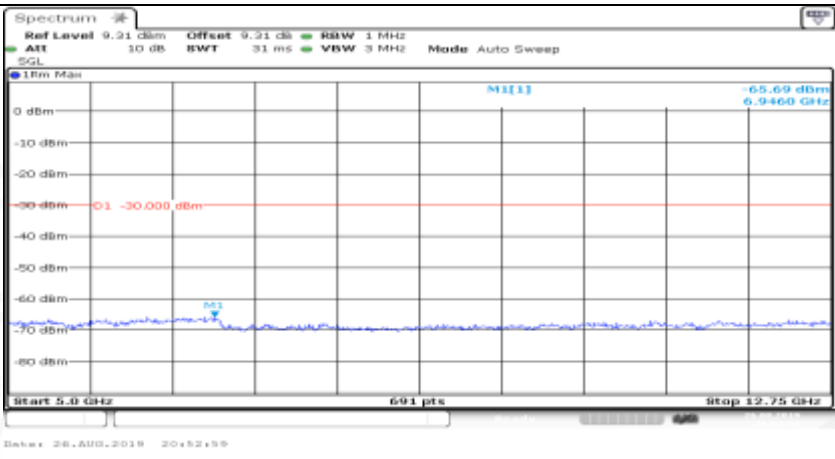
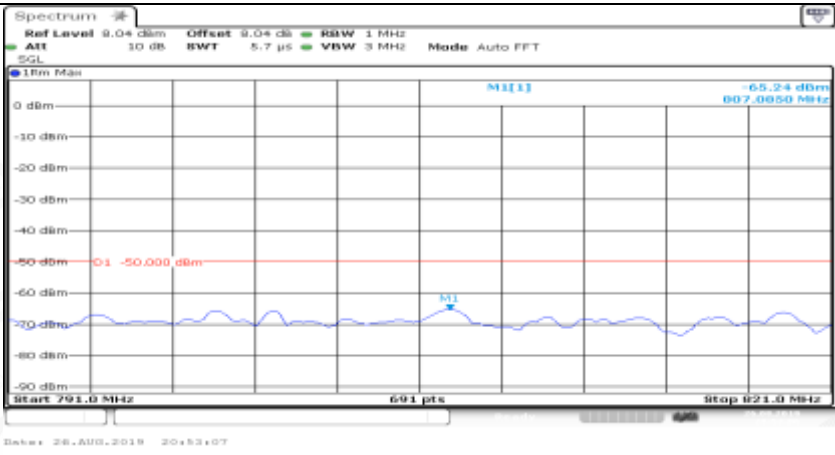
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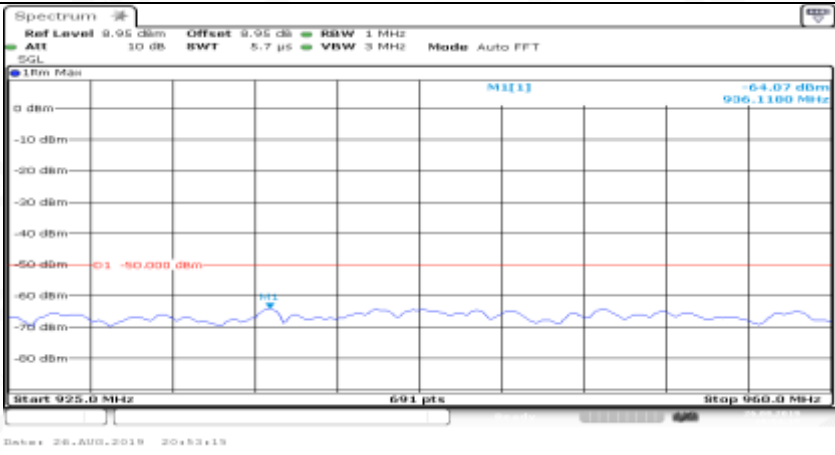

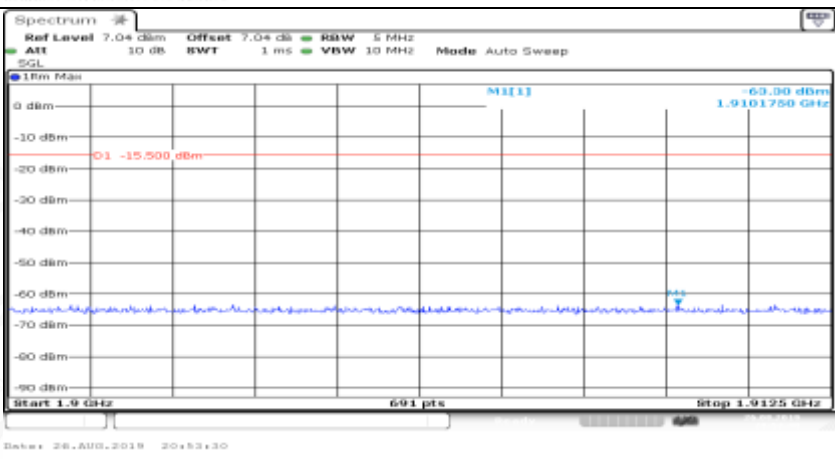
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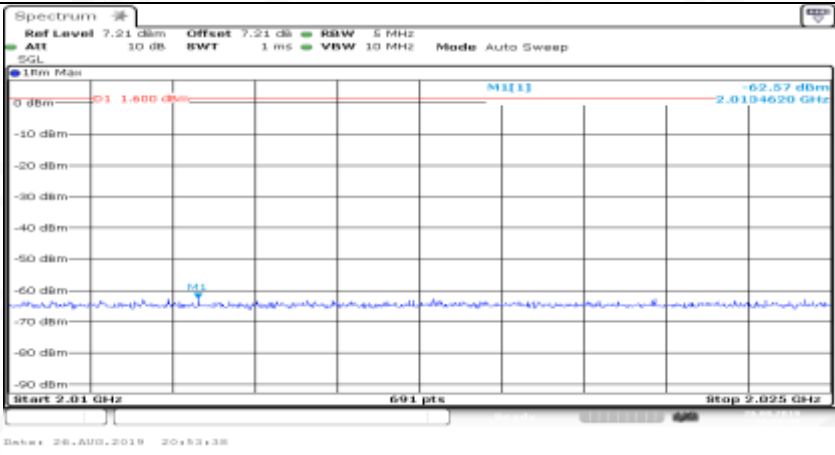
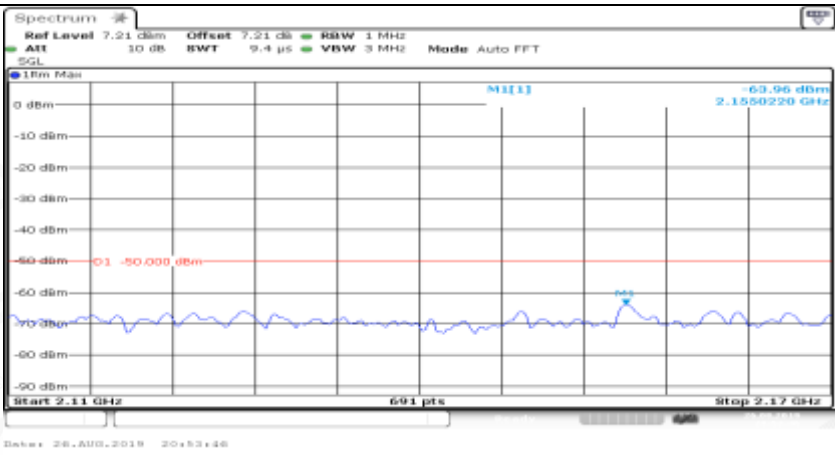
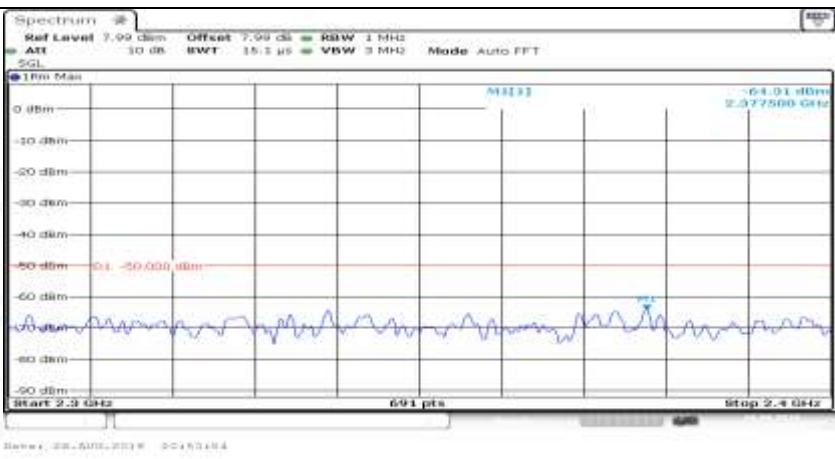
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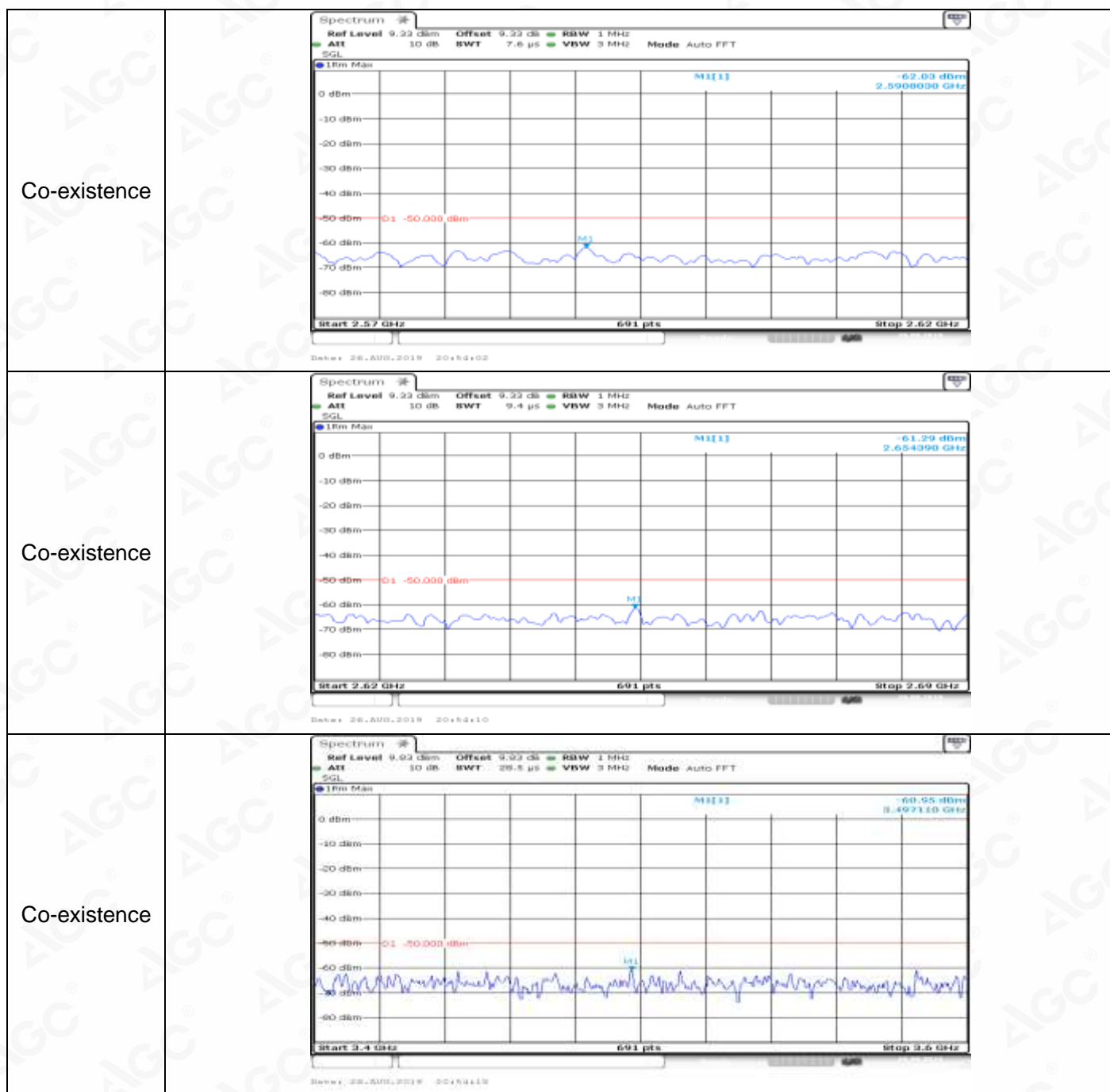
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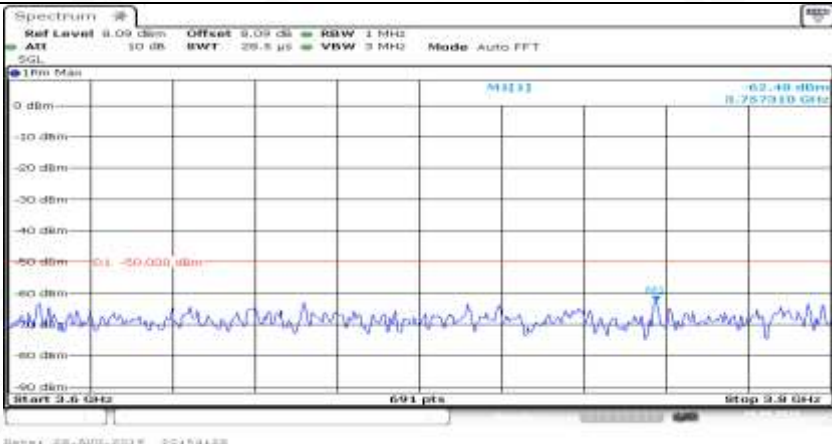


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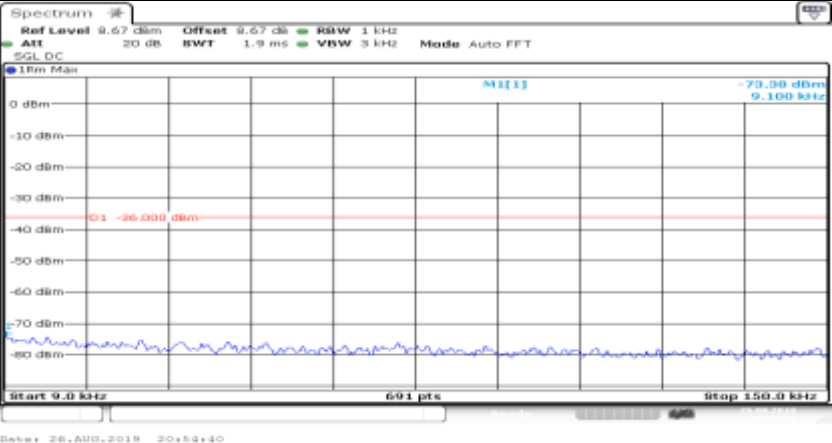
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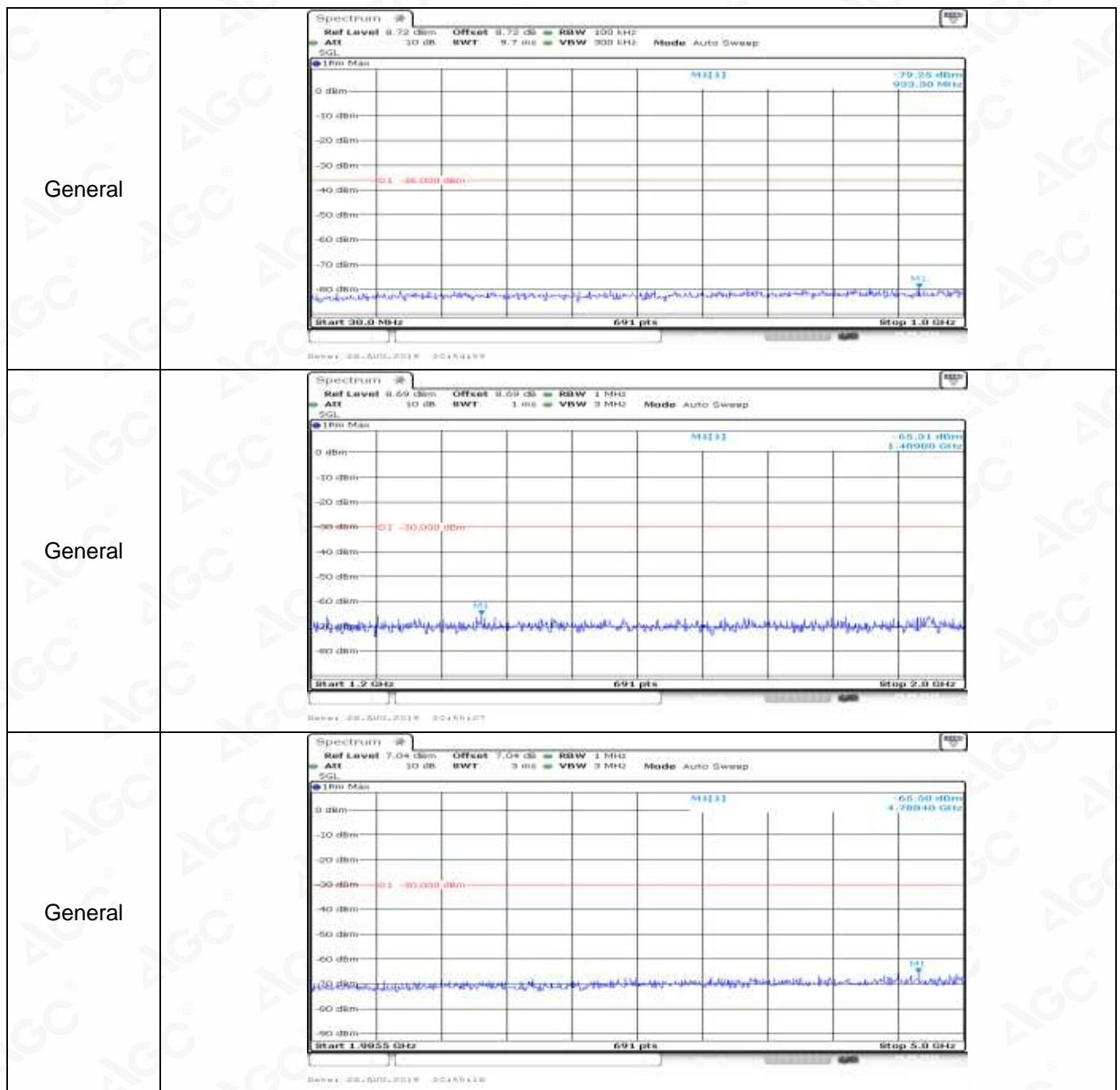
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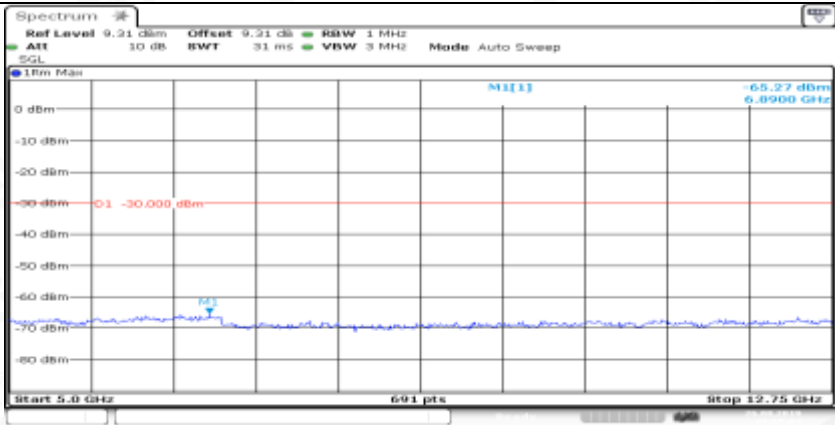

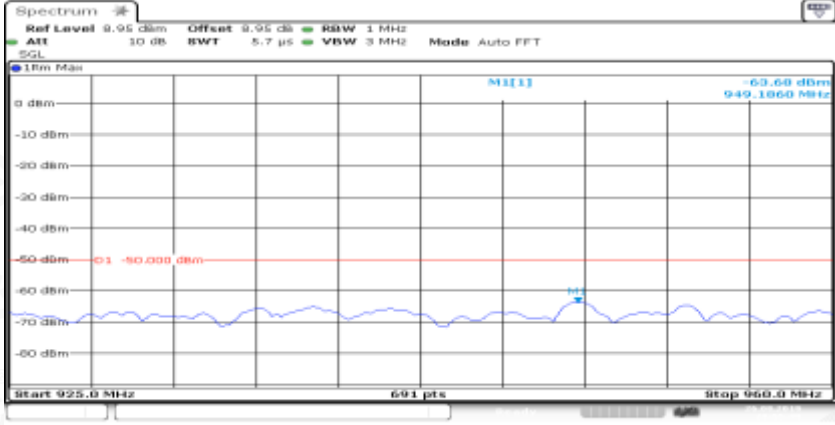



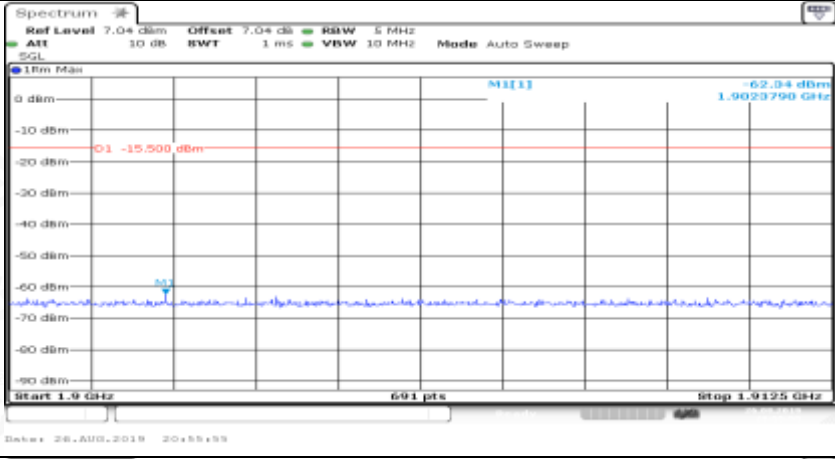
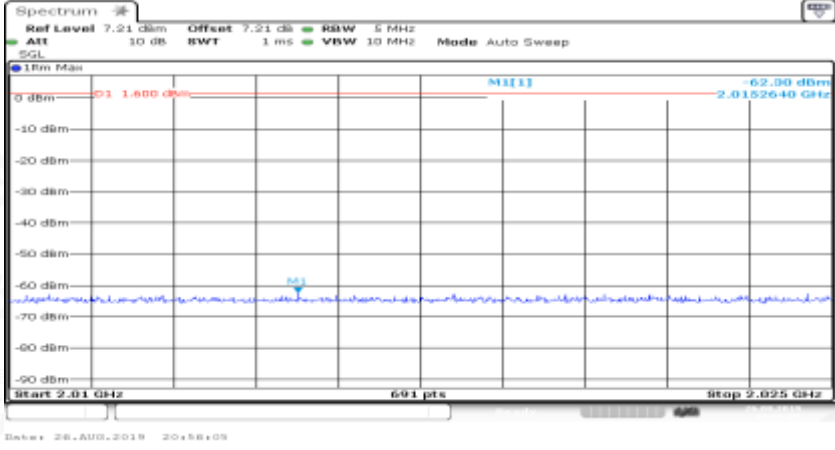
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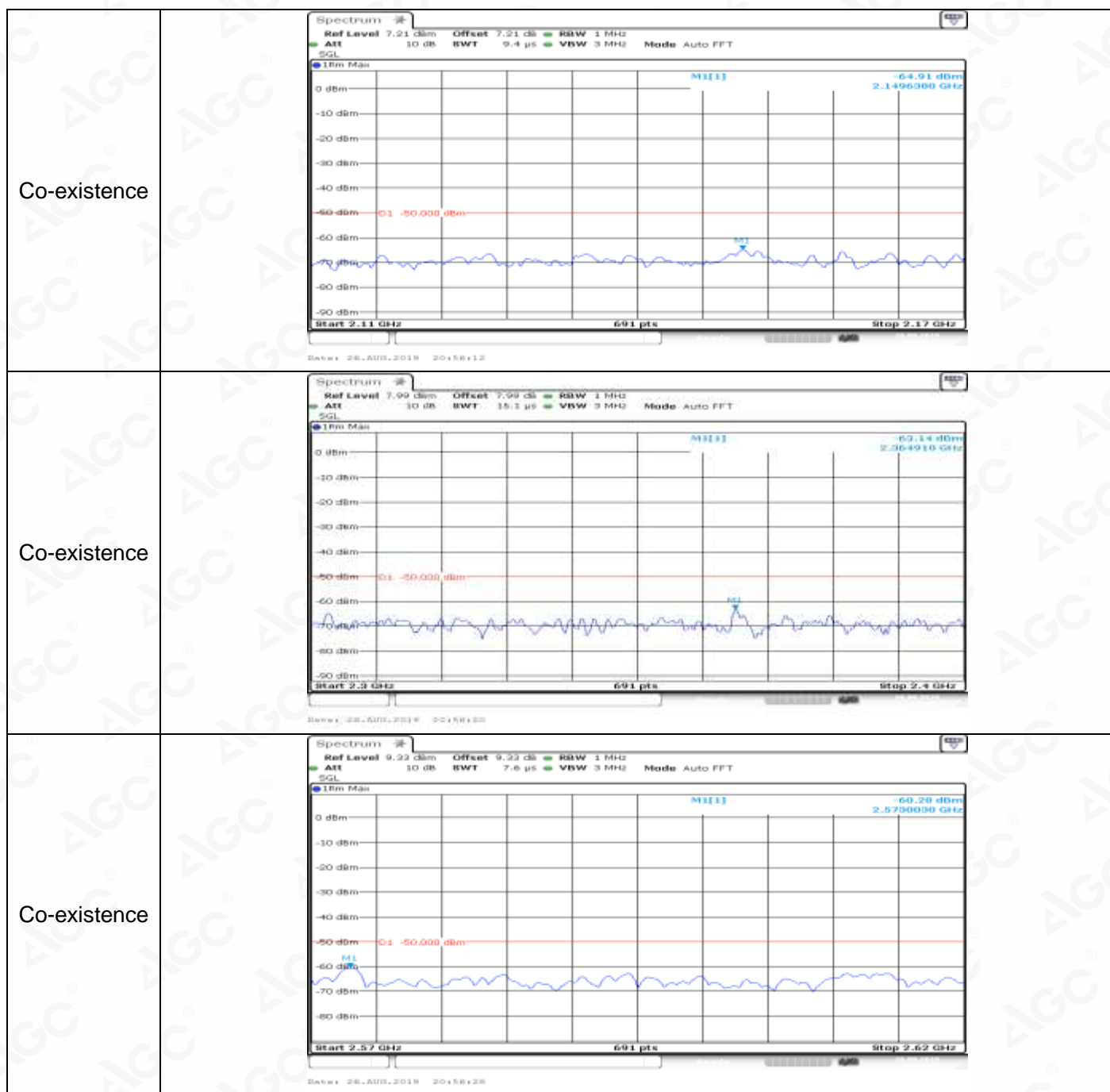
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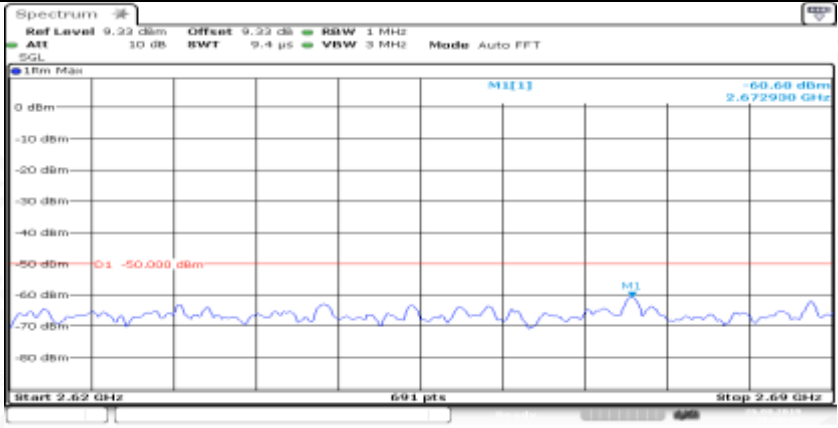
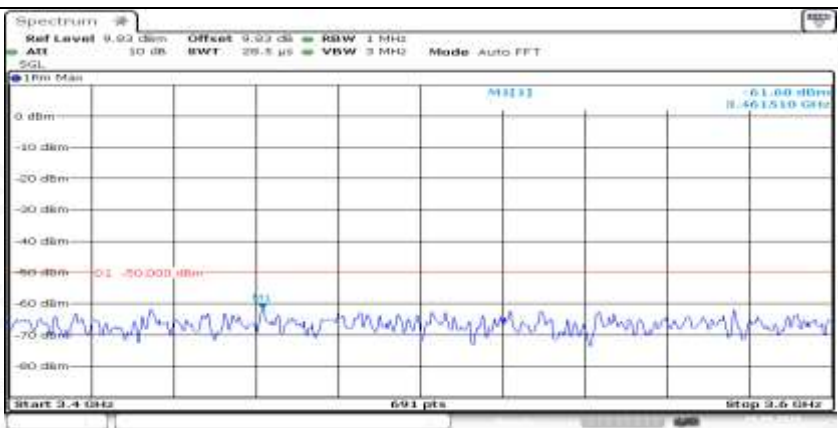
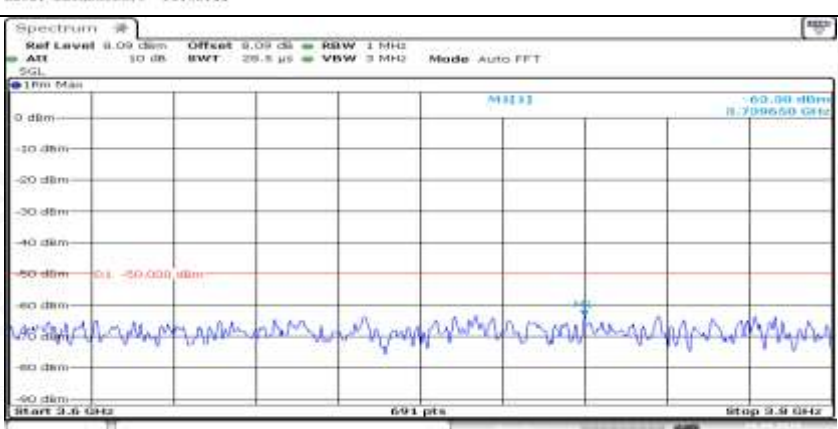
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General	



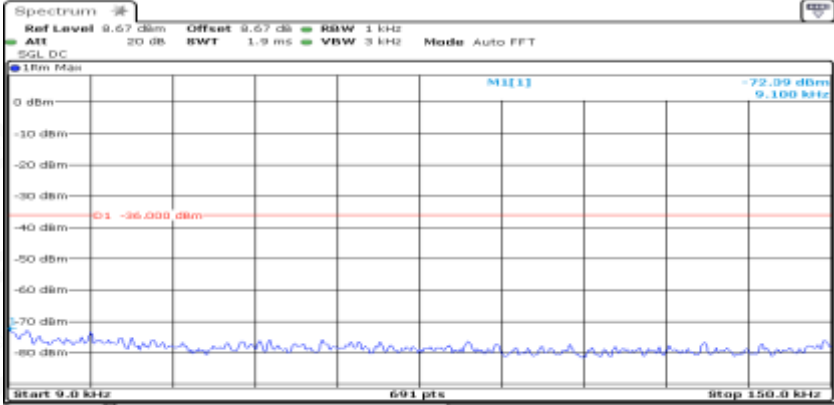
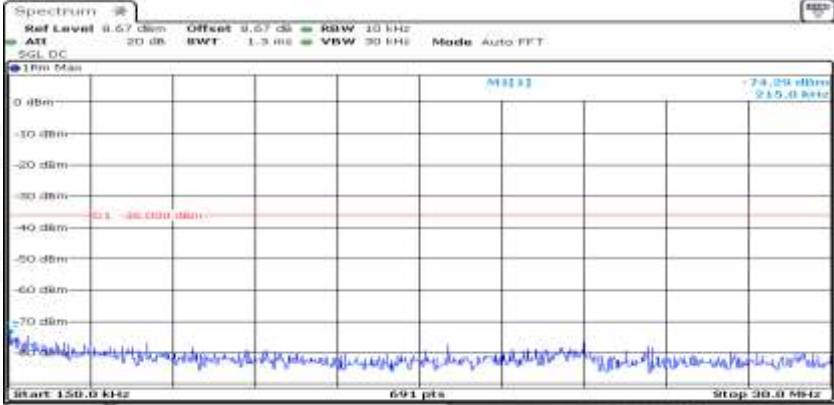
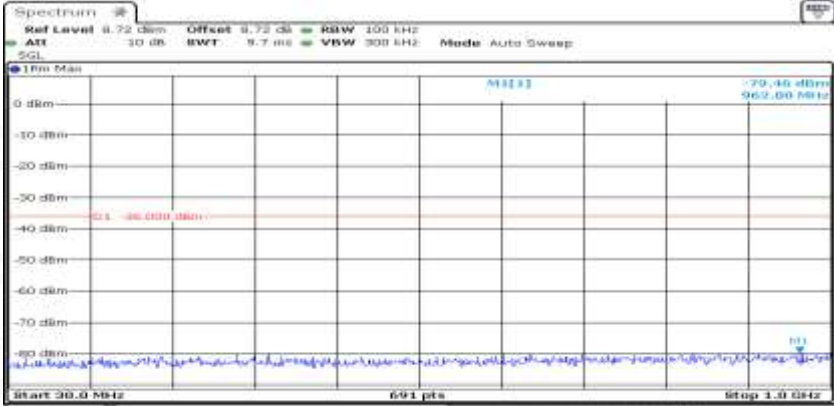
General	 <p>Spectrum</p> <p>Ref Level 9.21 dBm Offset 9.21 dB BW 1 MHz</p> <p>Att 10 dB BW 31 ms VBW 3 MHz Mode Auto Sweep</p> <p>10m Max</p> <p>M1[1] -65.27 dBm 6.8900 GHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 5.0 GHz 691 pts Stop 12.75 GHz</p> <p>Date: 26.AUG.2019 20:55:23</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.04 dBm Offset 9.04 dB BW 1 MHz</p> <p>Att 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -65.52 dBm 815.7250 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 791.0 MHz 691 pts Stop 821.0 MHz</p> <p>Date: 26.AUG.2019 20:55:31</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.95 dBm Offset 9.95 dB BW 1 MHz</p> <p>Att 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -63.68 dBm 949.1860 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 925.0 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 26.AUG.2019 20:55:39</p>

Co-existence	
Co-existence	
Co-existence	

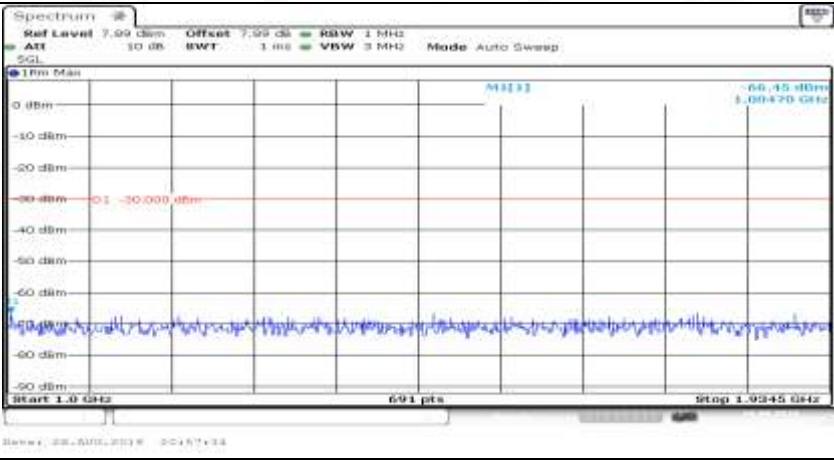
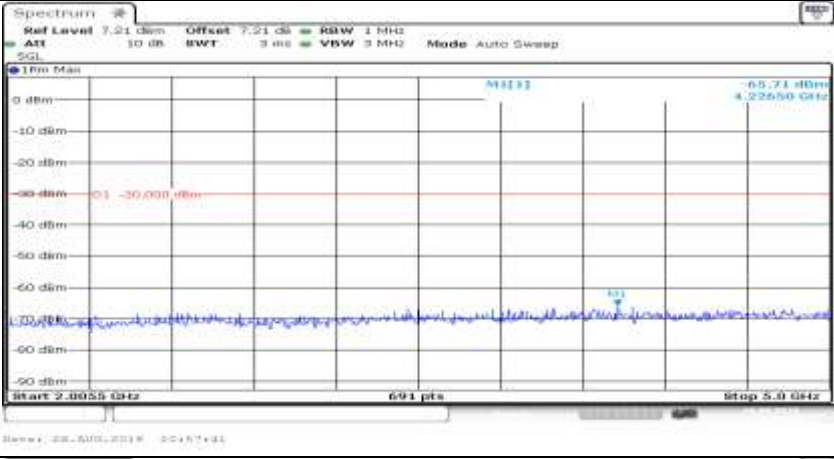
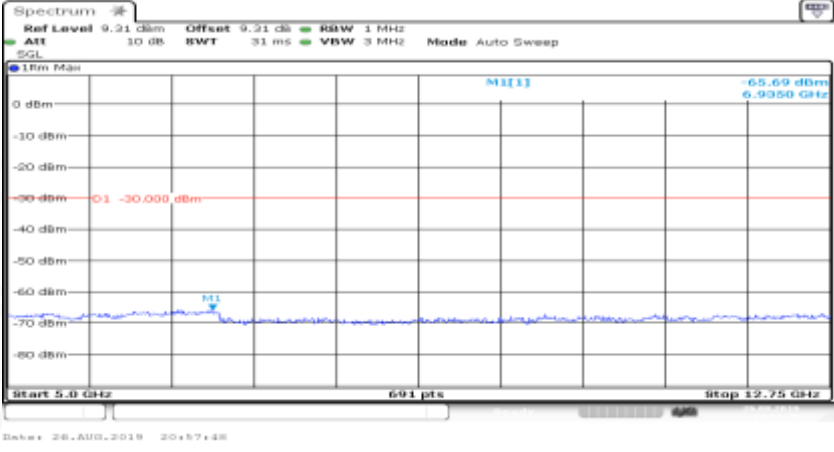


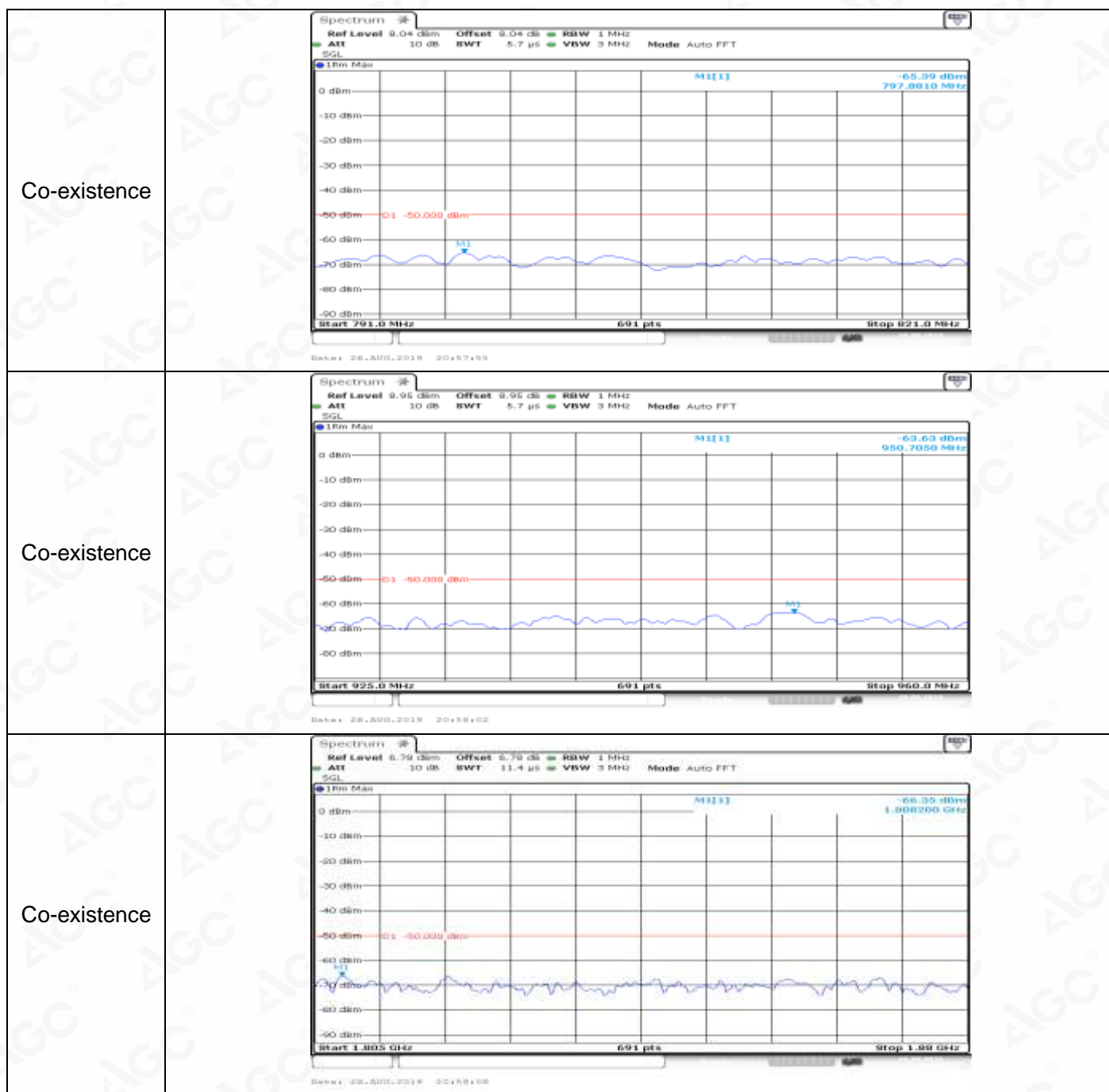
Co-existence	
Co-existence	
Co-existence	
Additional	NA

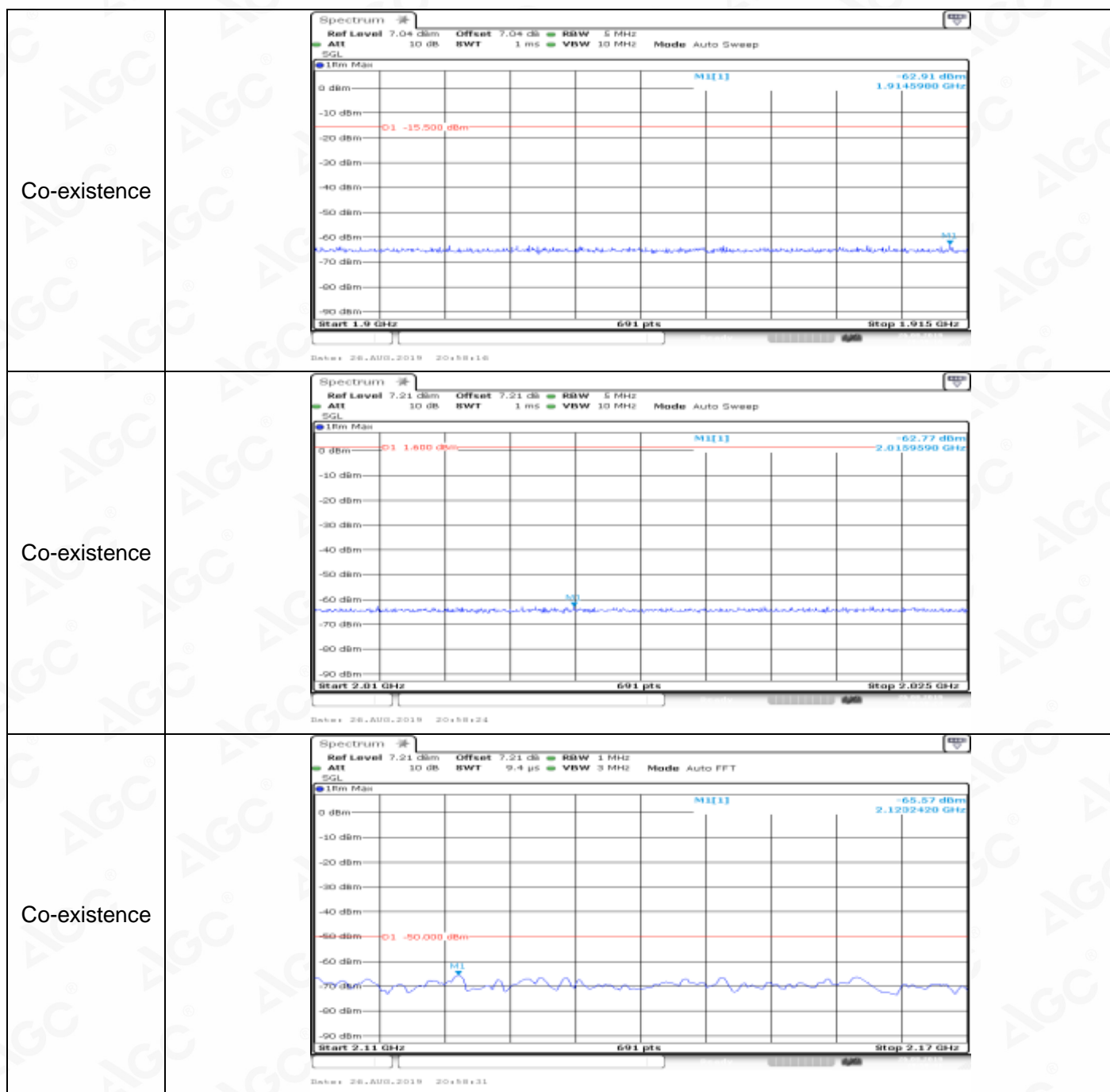
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

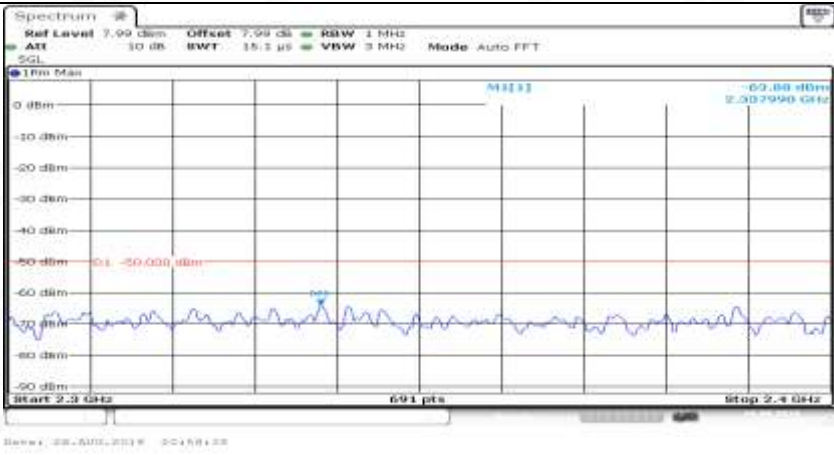
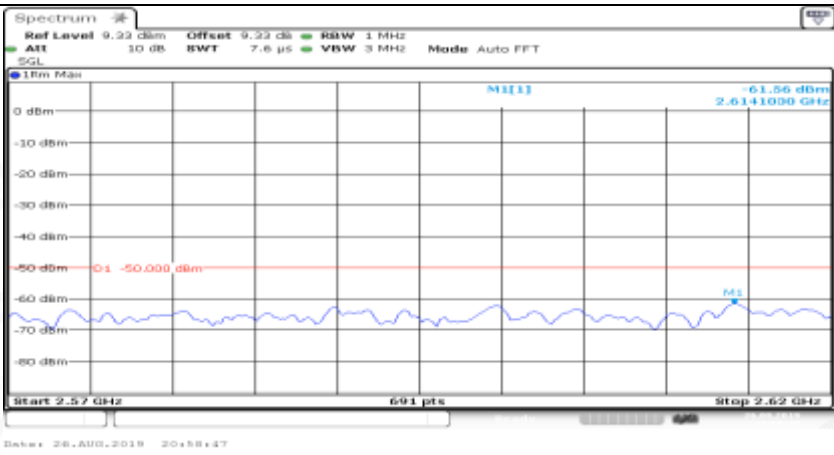
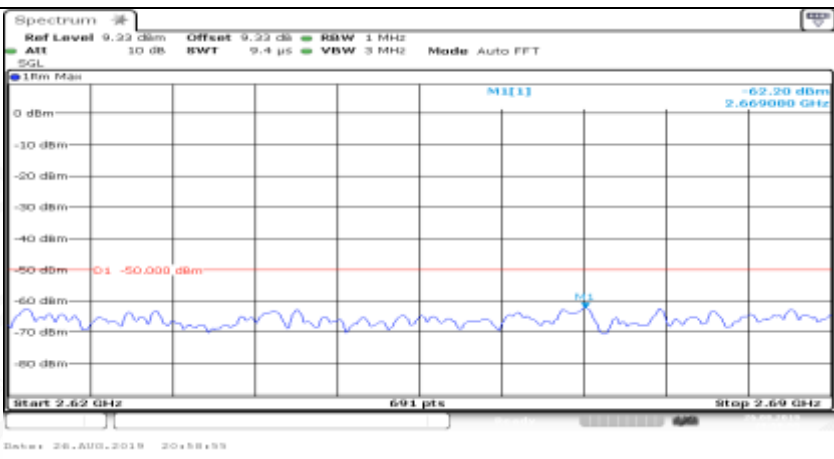
General	
General	
General	




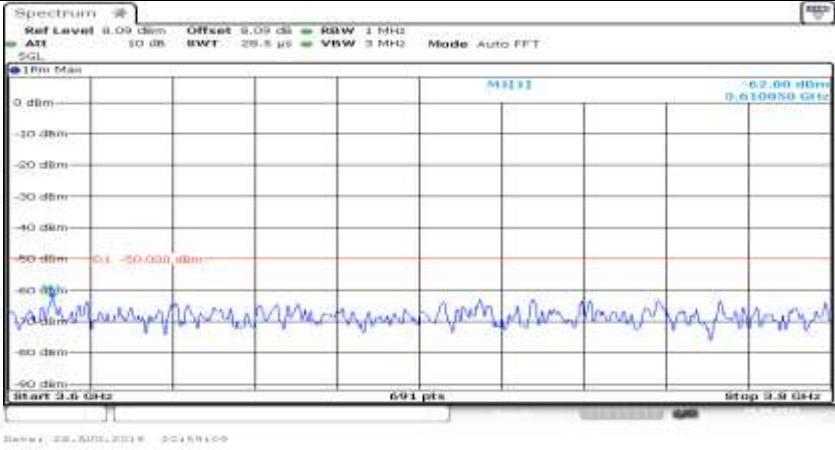
General	 <p>Spectrum plot showing a signal at 1.00470 GHz with a level of -66.45 dBm. The plot shows a noisy baseline with a single peak at the specified frequency.</p>
General	 <p>Spectrum plot showing a signal at 4.22550 GHz with a level of -65.71 dBm. The plot shows a noisy baseline with a single peak at the specified frequency.</p>
General	 <p>Spectrum plot showing a signal at 6.9350 GHz with a level of -65.69 dBm. The plot shows a noisy baseline with a single peak at the specified frequency.</p>



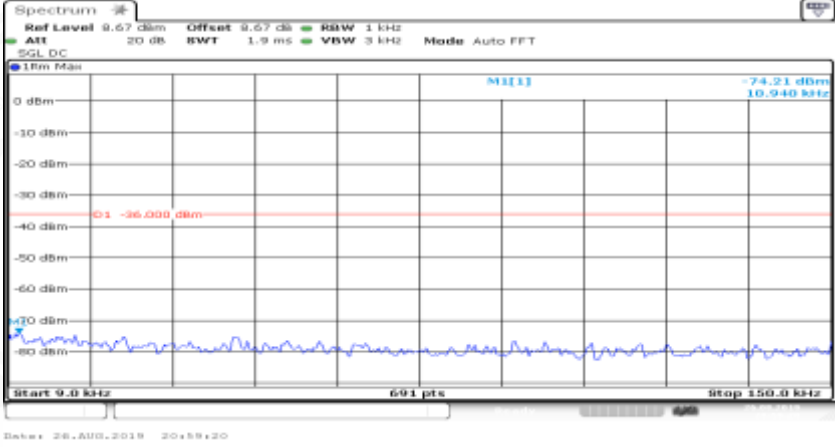


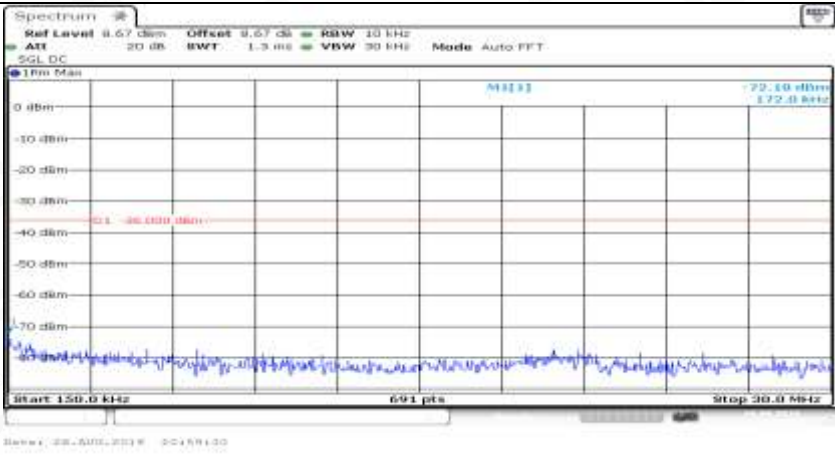

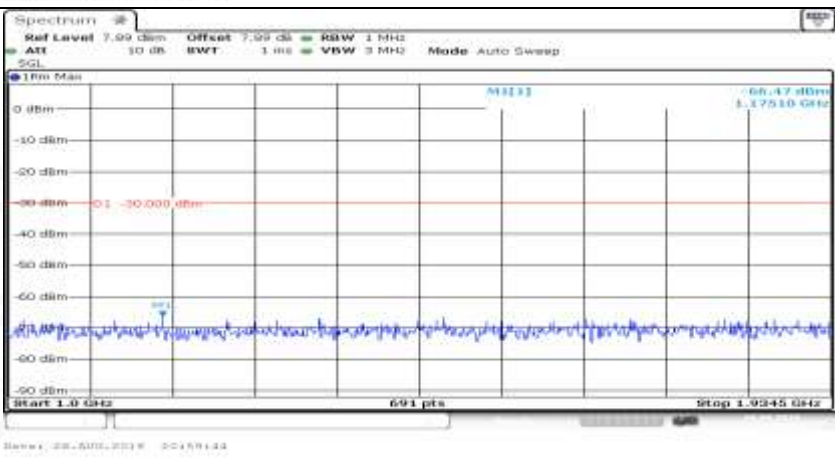
Co-existence	
Co-existence	
Co-existence	

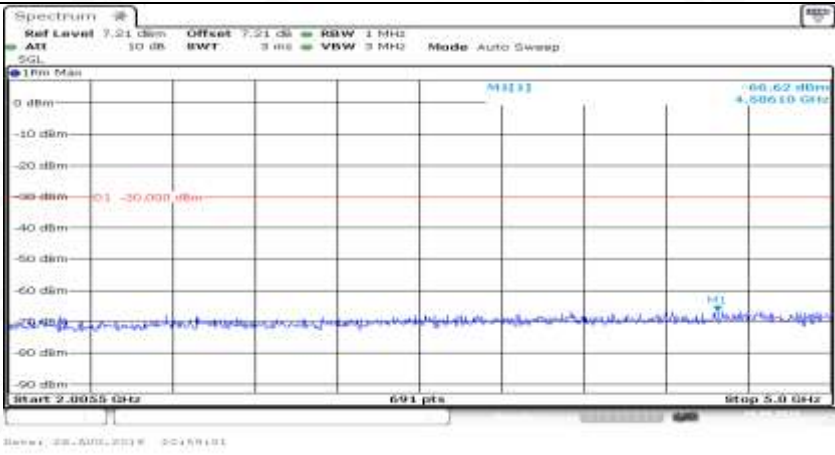
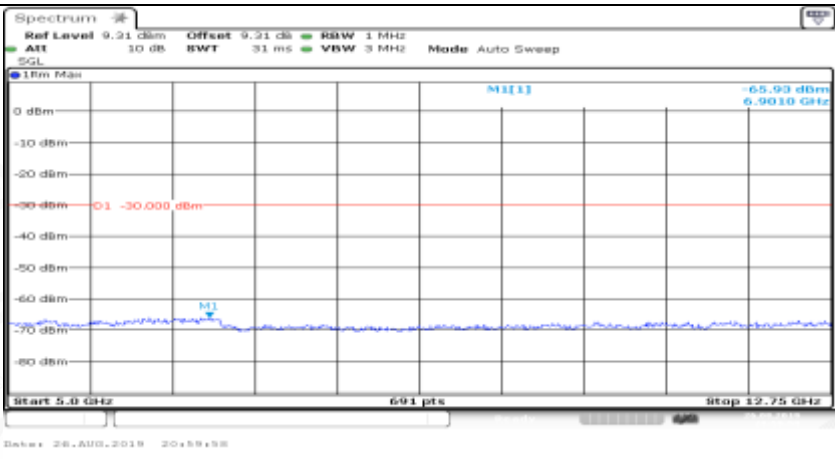
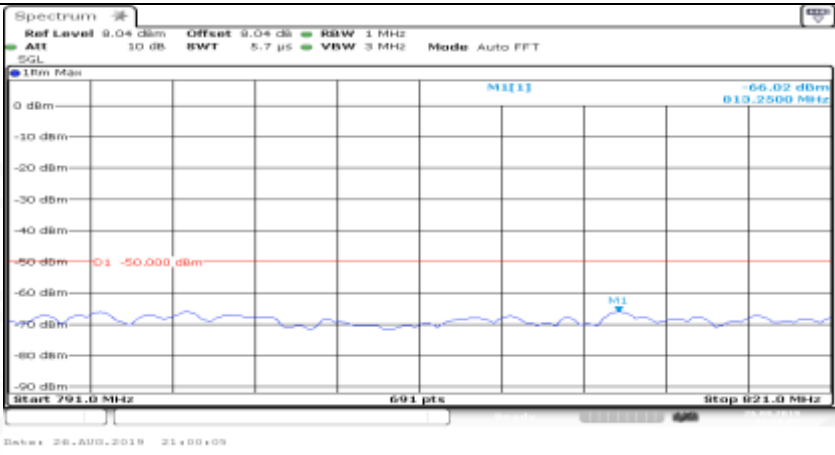


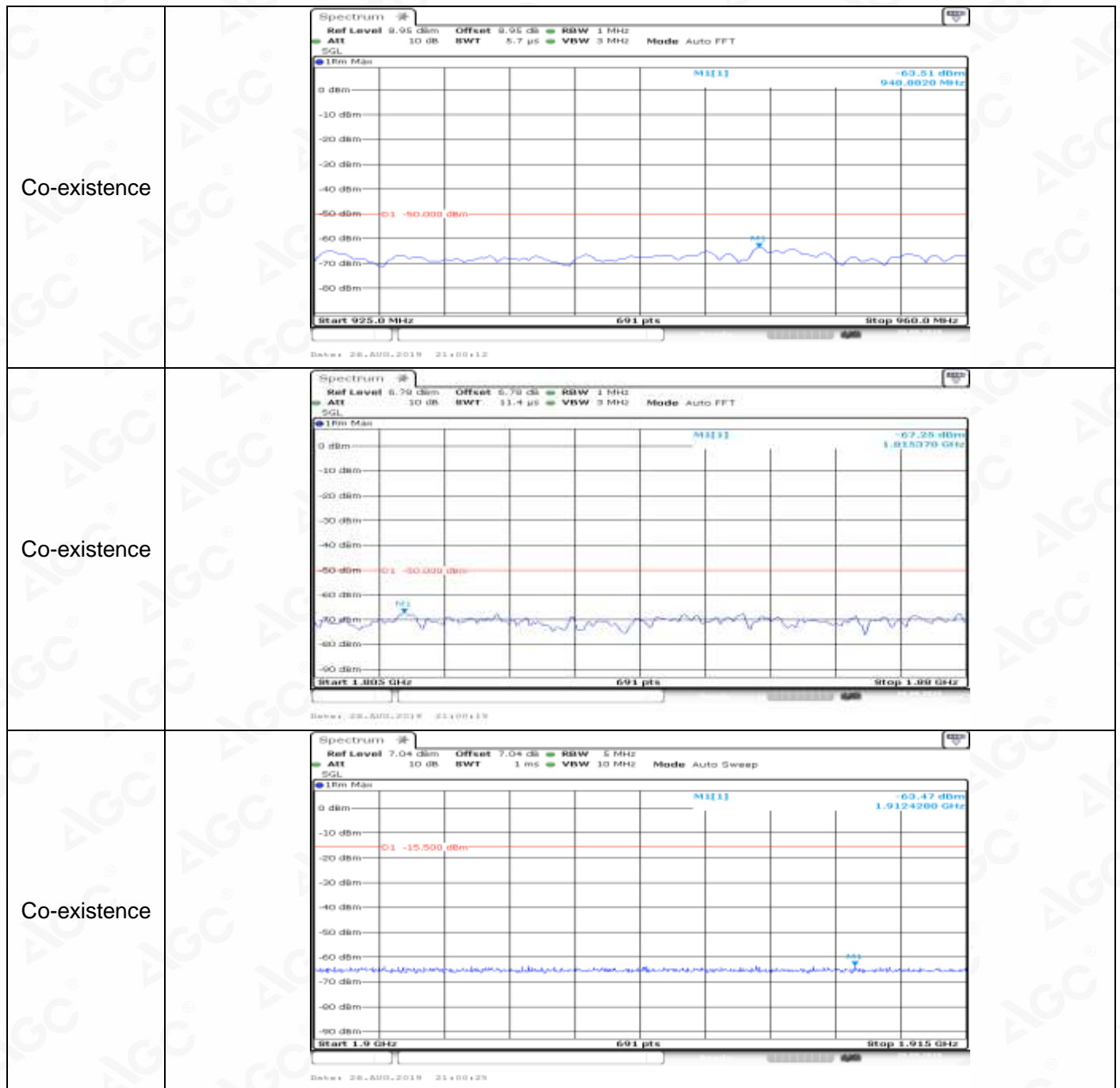
Co-existence	
Co-existence	
Additional	NA

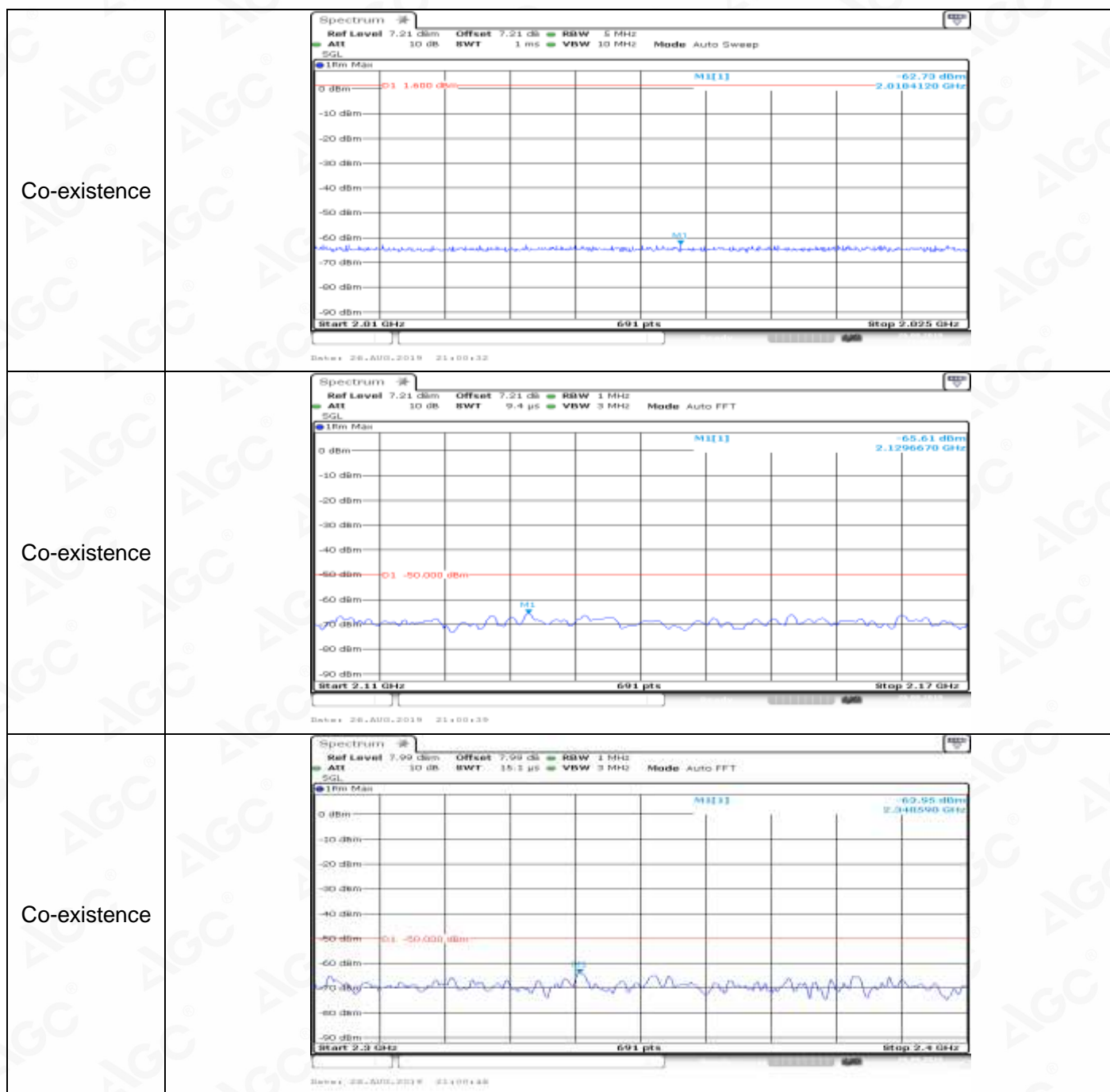
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max

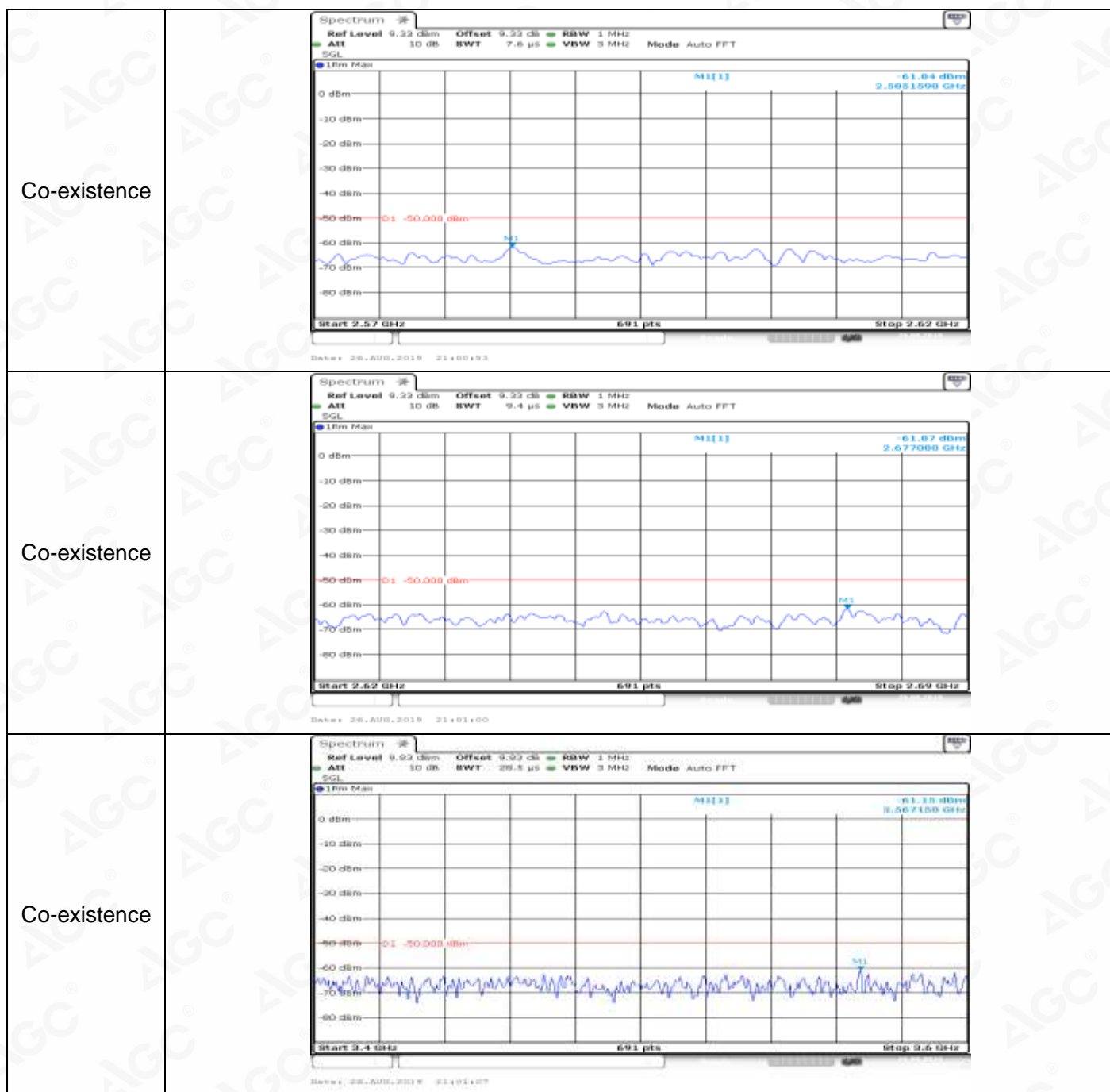
General	
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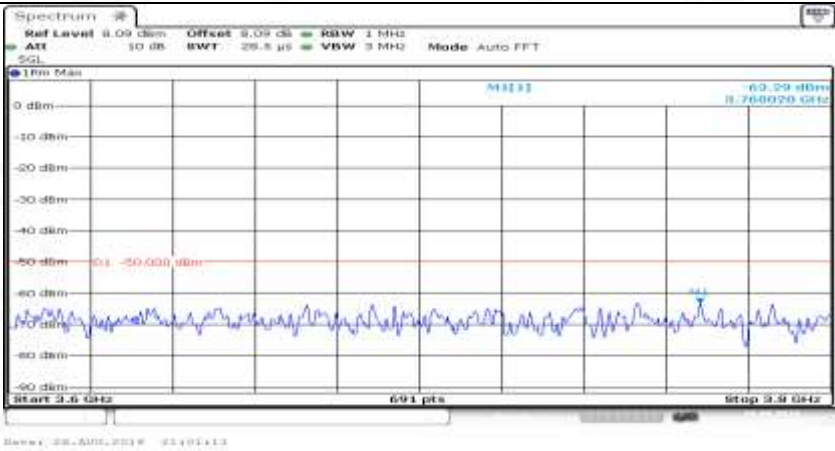
General	
General	
General	

General	
General	
Co-existence	

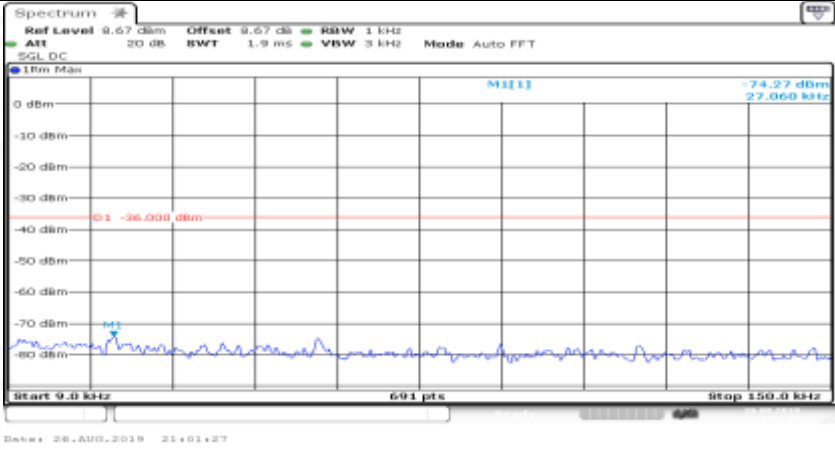
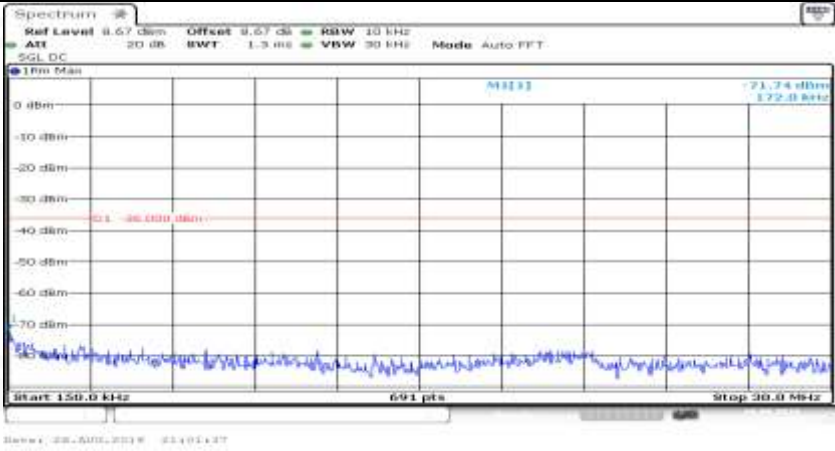


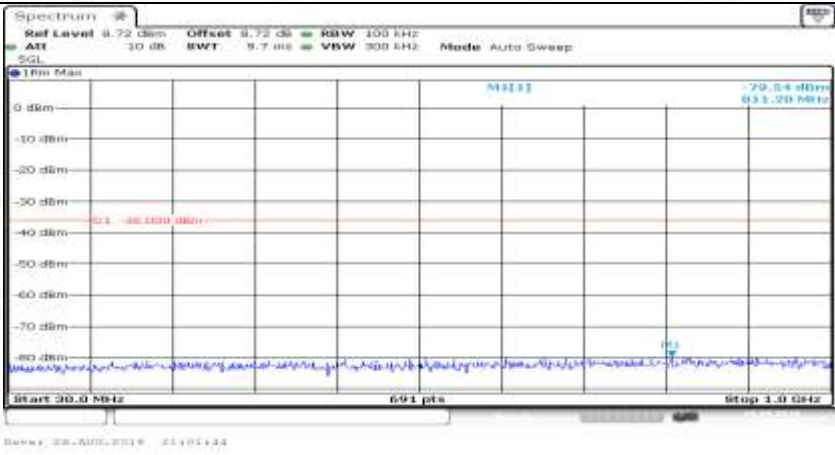
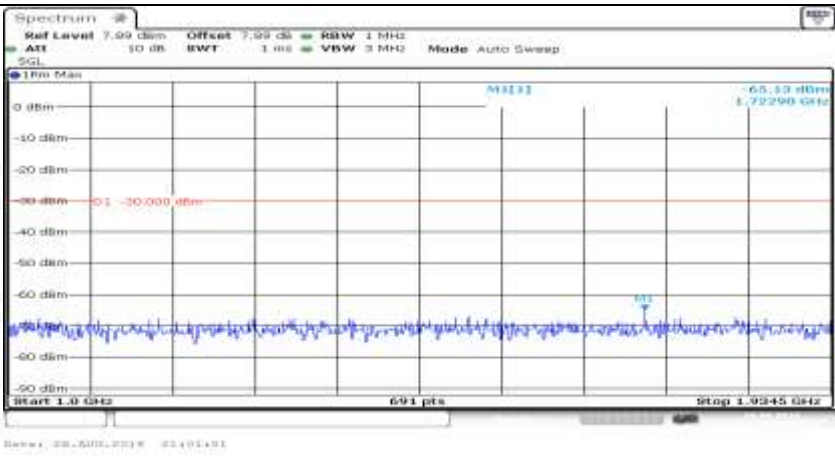
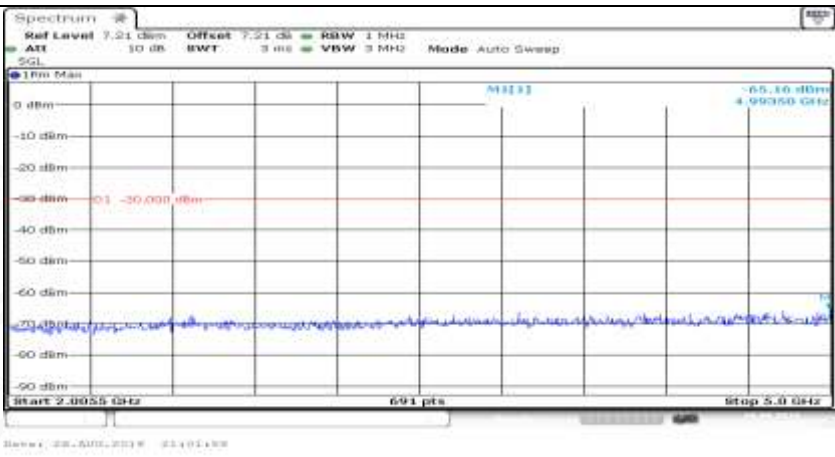


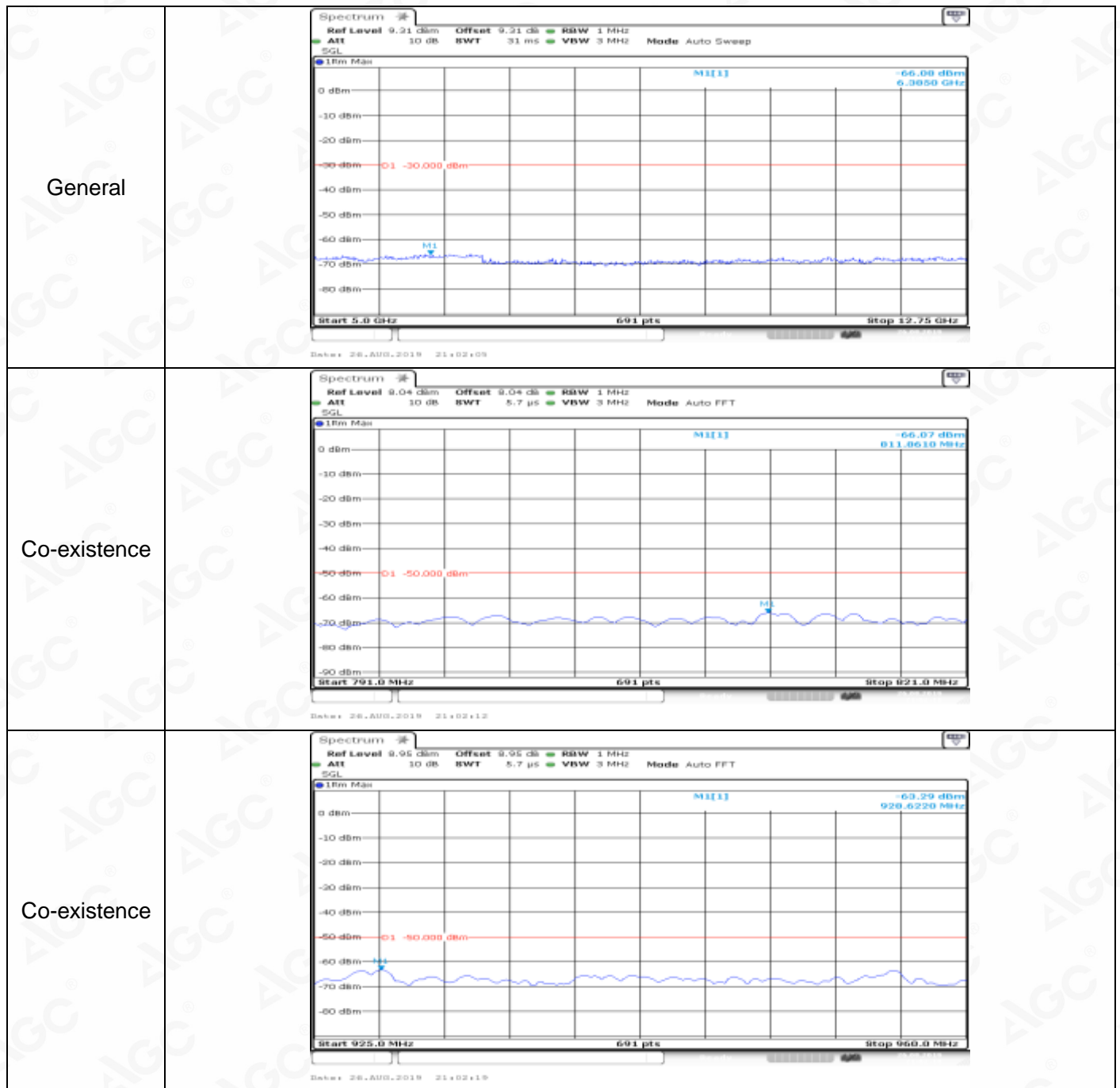


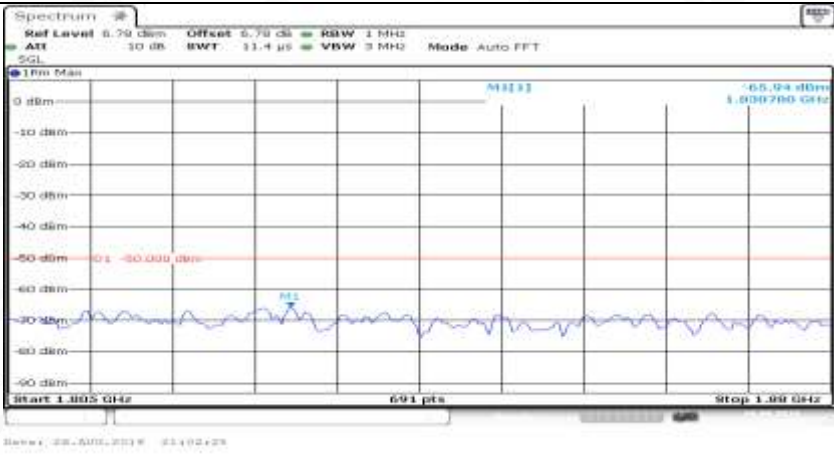
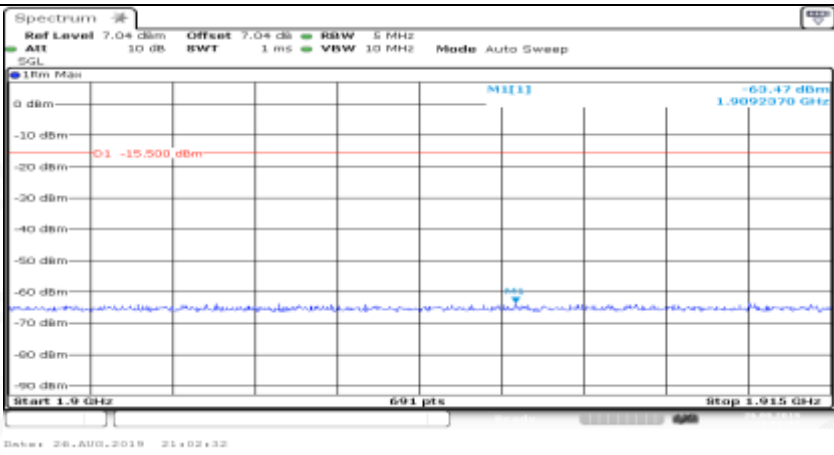
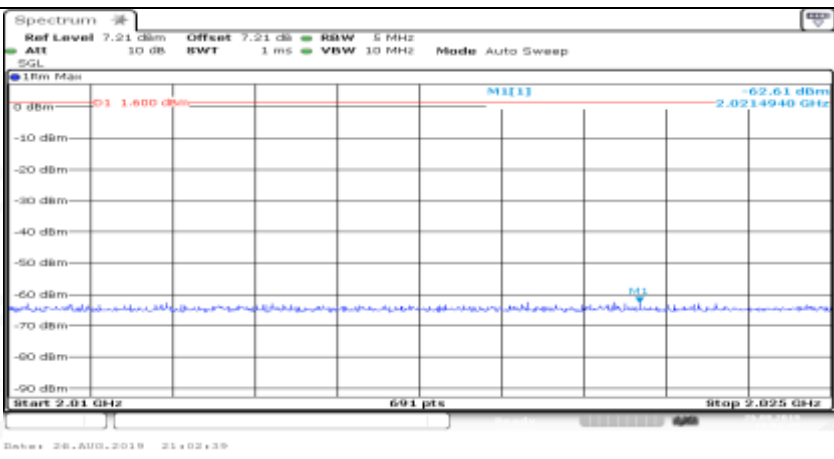
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullRB#0

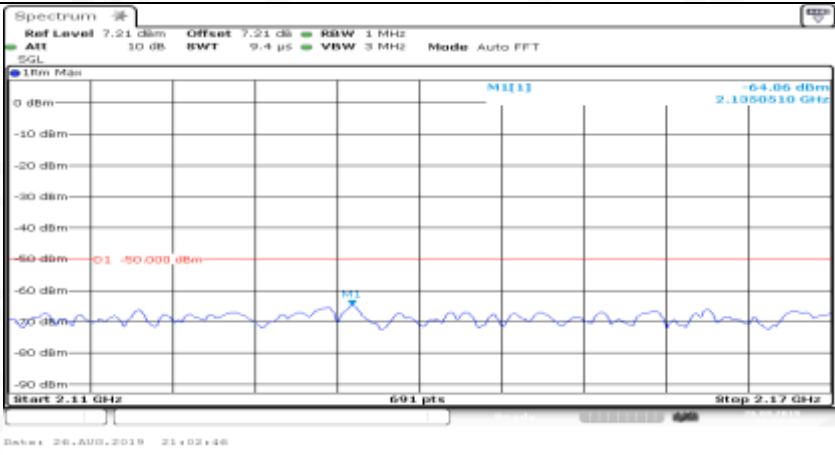
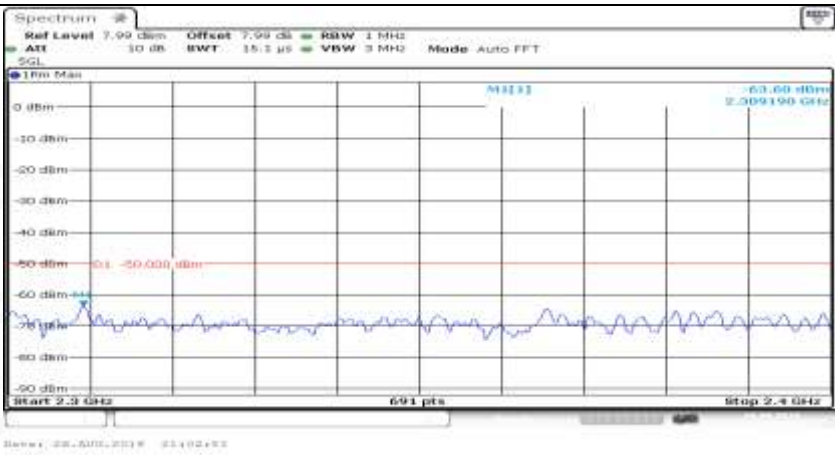
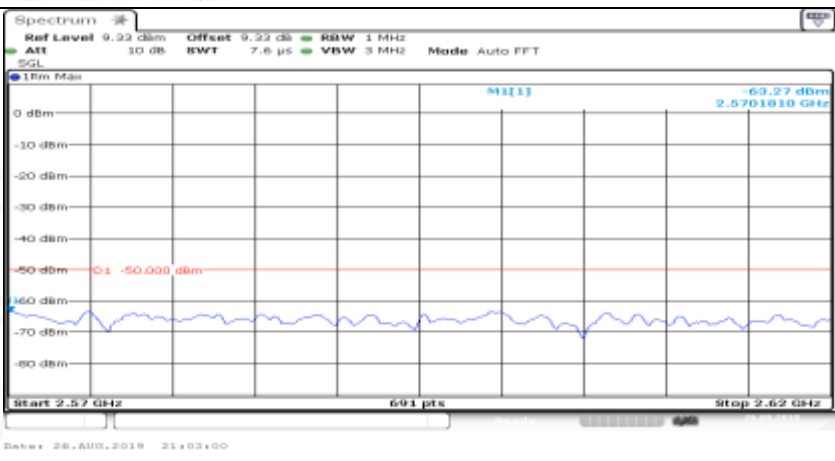
General	
General	

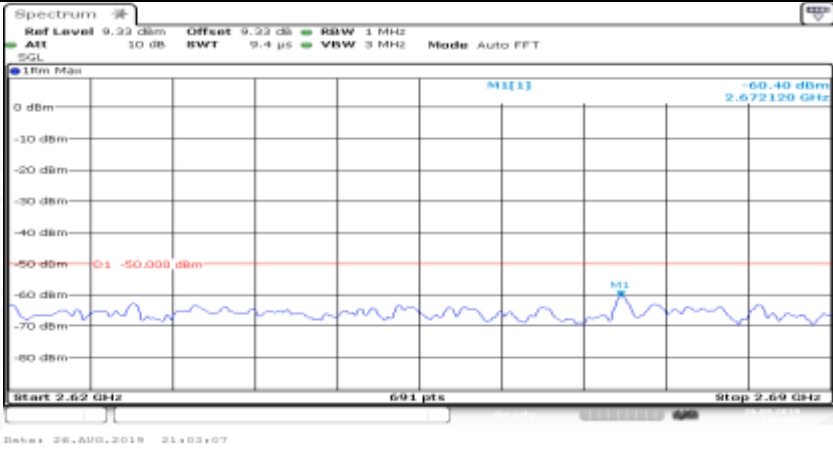
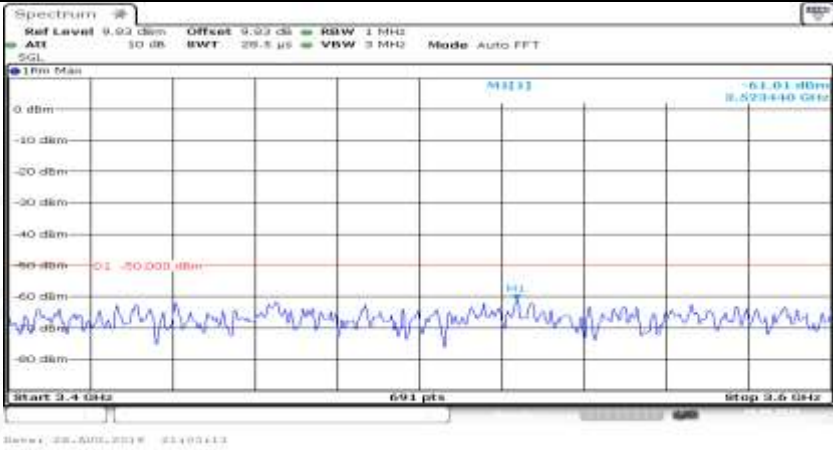
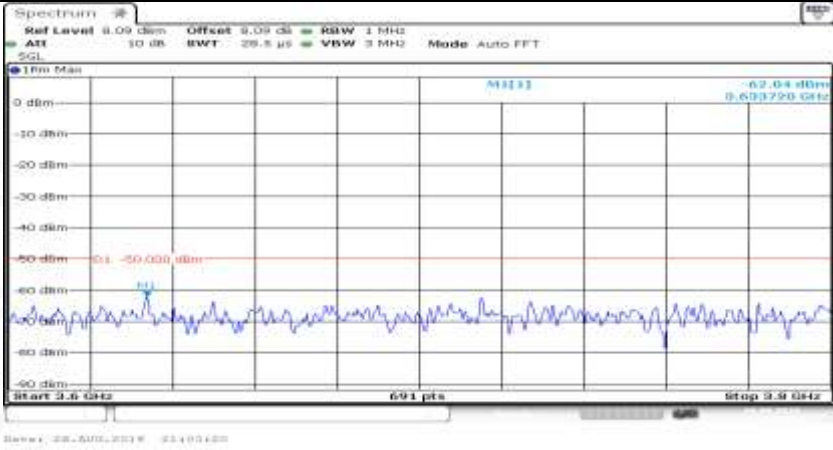
General	
General	
General	



Co-existence	
Co-existence	
Co-existence	



Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	
Additional	NA

6. Receiver Spurious Emissions

Test Result

NTNV

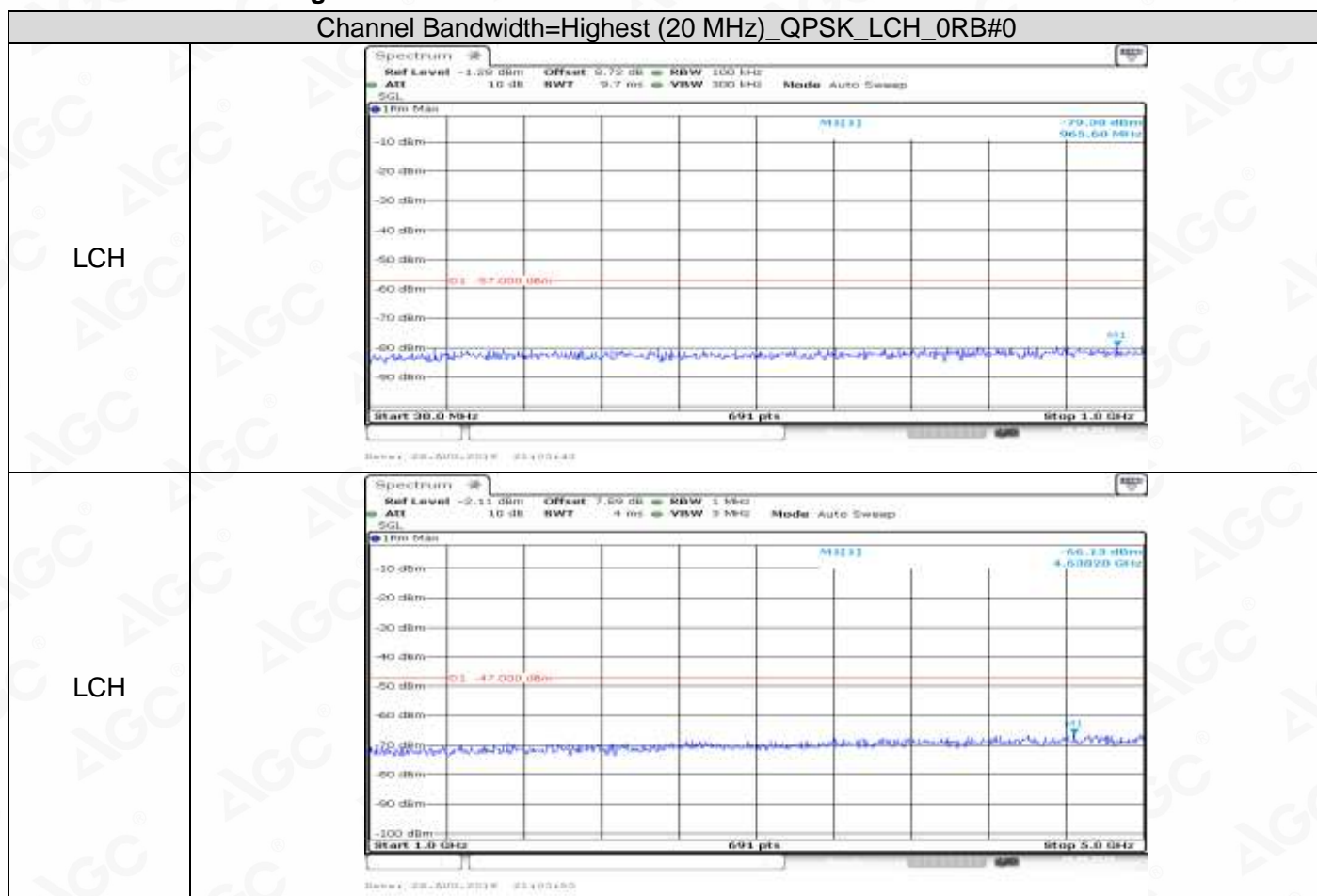
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest



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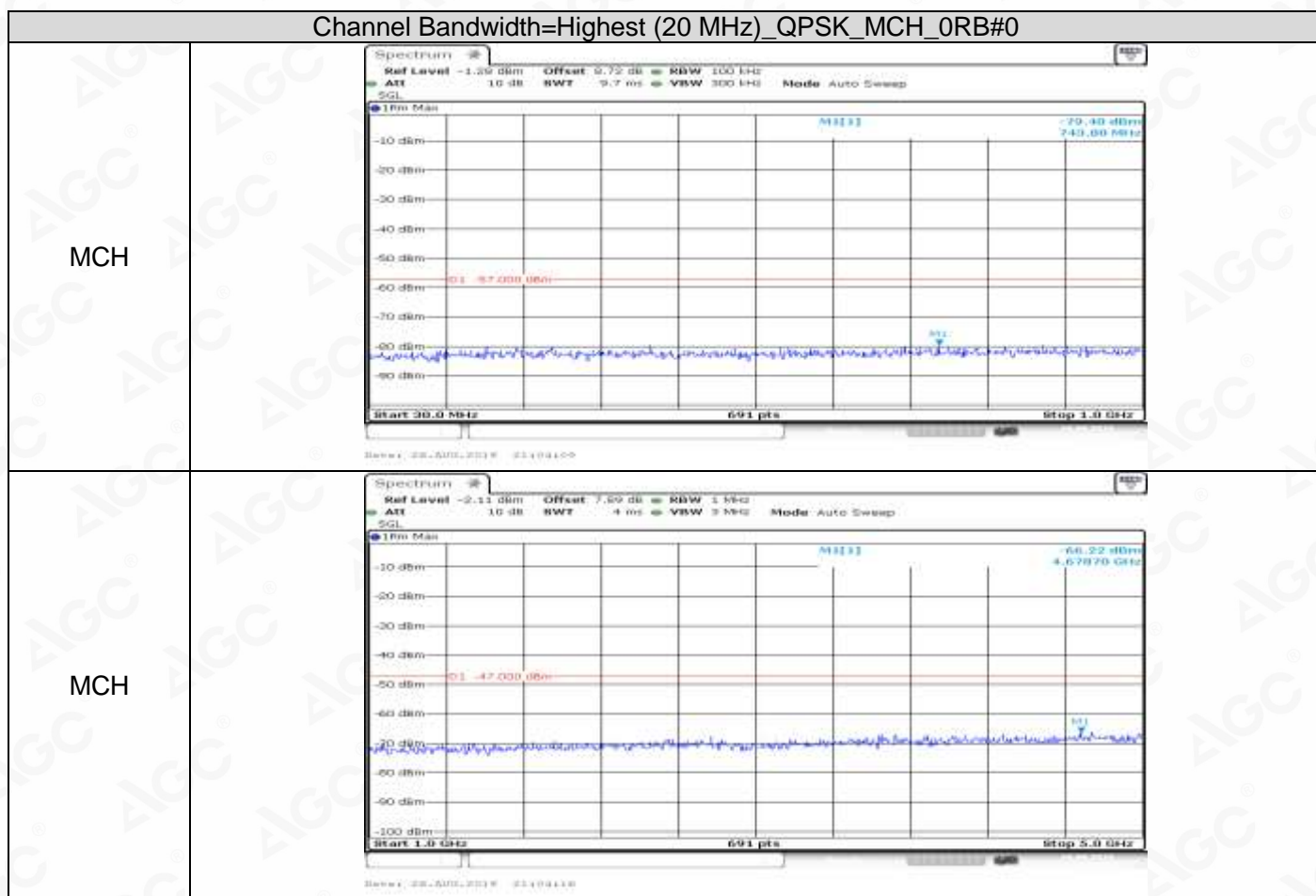
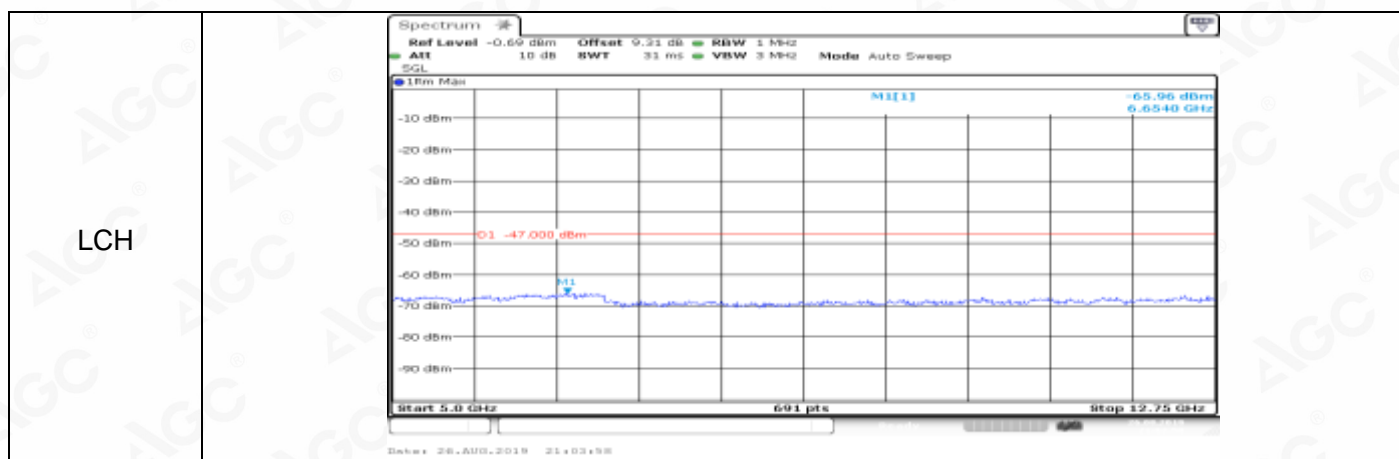
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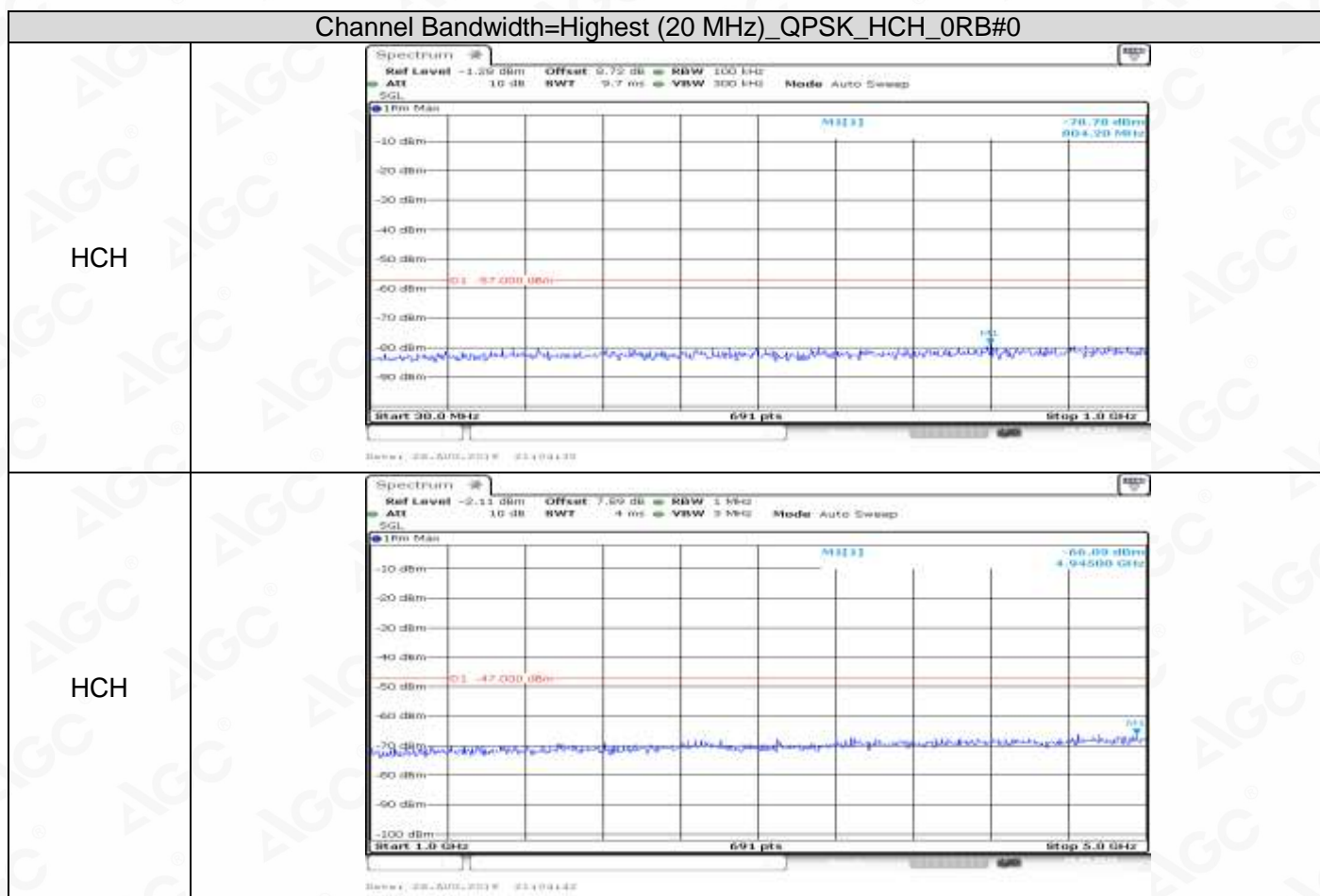
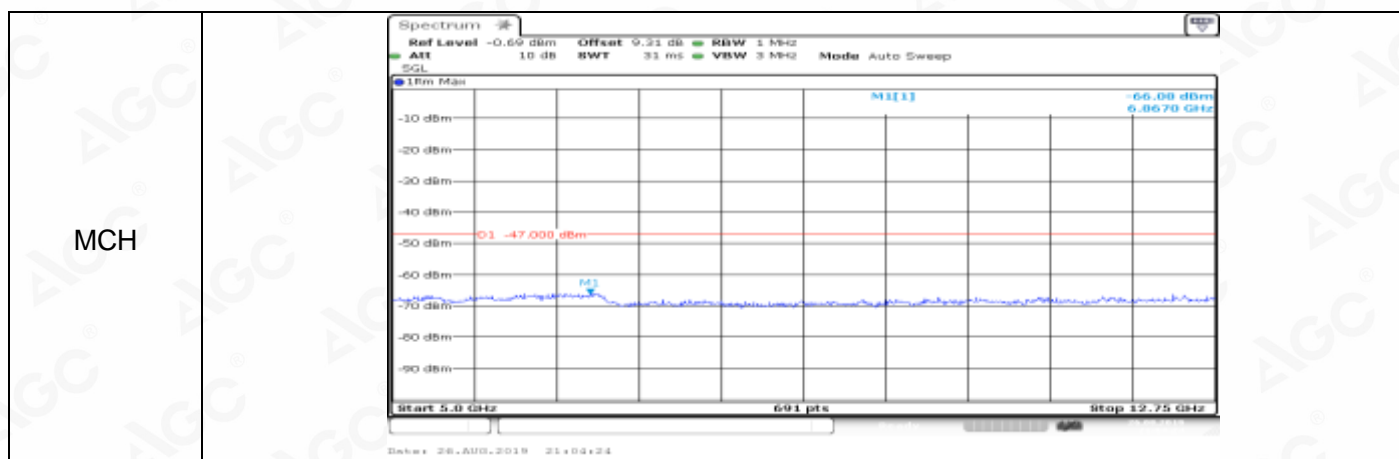
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

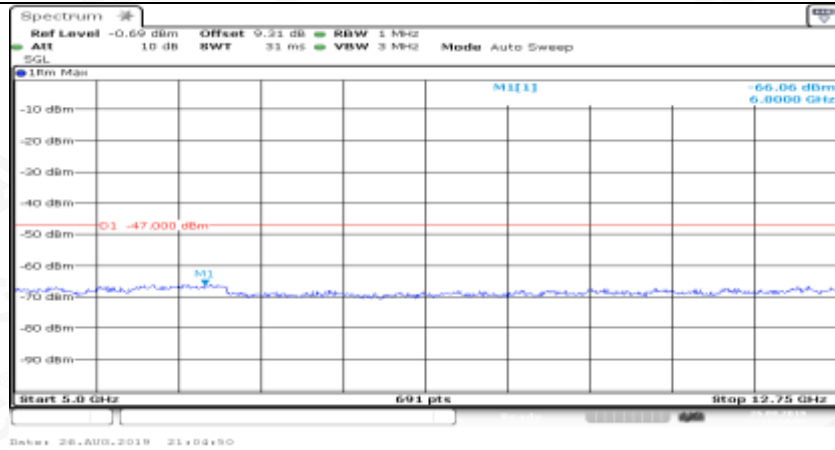
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118





HCH



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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 1			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					



11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

	Test Band			Band 1			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TN,VN	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					



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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-69.56	-69.85	-70.23
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-66.78	-67.14	-67.59
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-66.92	-67.43	-67.96



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Appendix B for Band 3

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	24.94	Pass
					max	24.93	Pass
				Partial	0	25.21	Pass
					max	25.23	Pass
			Mid range	1	0	23.89	Pass
					max	23.93	Pass
				Partial	0	24.05	Pass
					max	24.09	Pass
			High range	1	0	23.67	Pass
					max	23.73	Pass
				Partial	0	23.82	Pass
					max	23.85	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	1	0	24.88	Pass
					max	24.80	Pass
				Partial	0	25.03	Pass
					max	25.04	Pass
			Mid range	1	0	23.93	Pass
					max	23.89	Pass
				Partial	0	24.01	Pass
					max	23.98	Pass
			High range	1	0	23.62	Pass
					max	23.70	Pass
				Partial	0	23.67	Pass
					max	23.71	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	24.85	Pass
					max	24.32	Pass
				Partial	0	24.71	Pass
					max	24.30	Pass
			Mid range	1	0	23.97	Pass
					max	23.79	Pass
				Partial	0	23.95	Pass
					max	23.77	Pass
			High range	1	0	23.51	Pass
					max	23.49	Pass
				Partial	0	23.68	Pass
					max	23.59	Pass



2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Full	0	-47.56	Pass
			Mid range	Full	0	-49.93	Pass
			High range	Full	0	-49.11	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	Full	0	-49.16	Pass
			Mid range	Full	0	-49.92	Pass
			High range	Full	0	-49.30	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-48.70	Pass
			Mid range	Full	0	-49.65	Pass
			High range	Full	0	-49.63	Pass



3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass

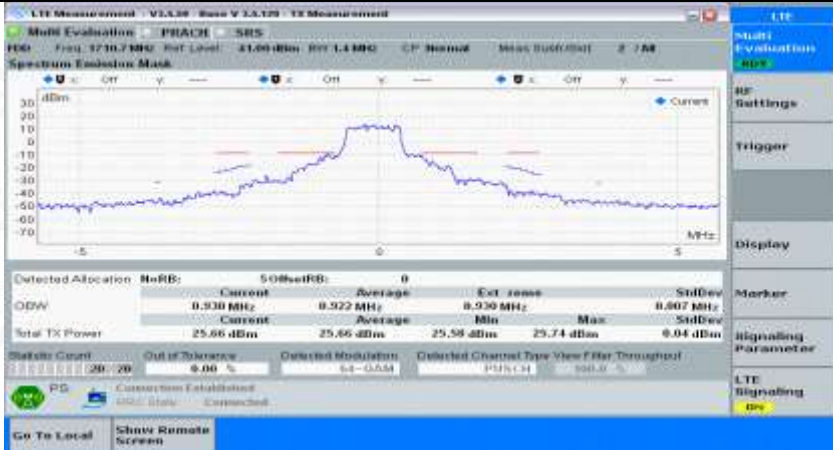
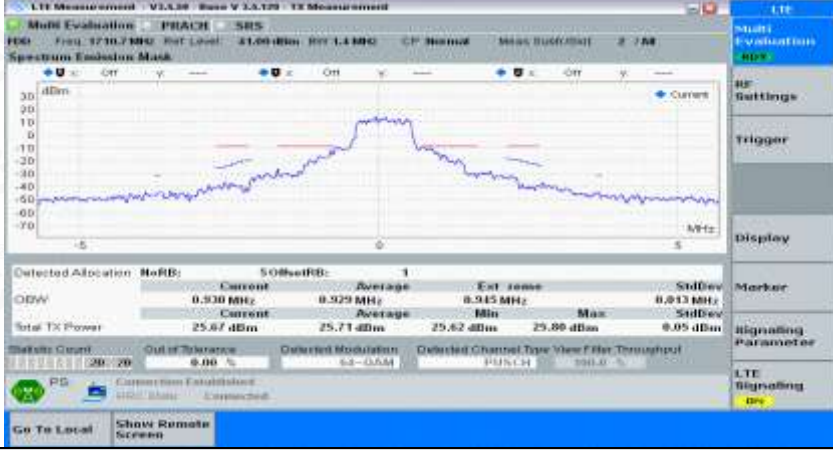


					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
					0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass

Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0	



Attestation of Global Compliance


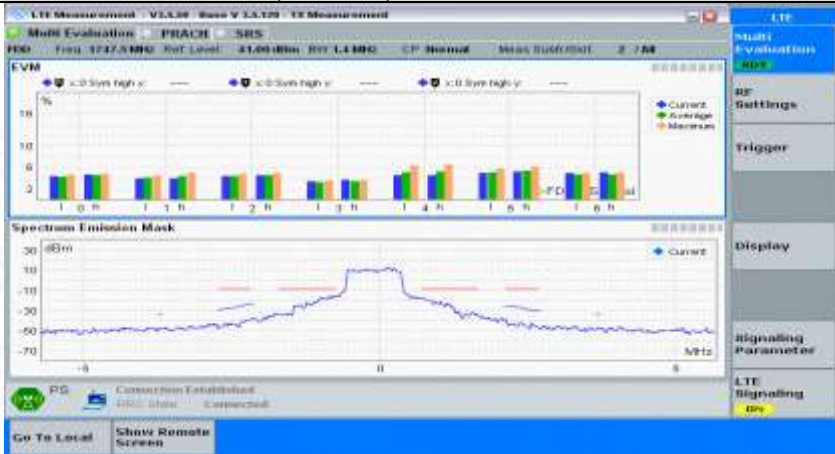
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

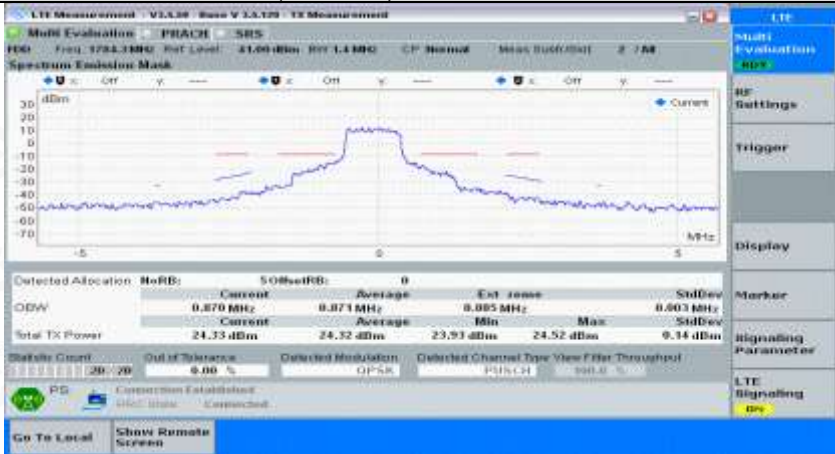
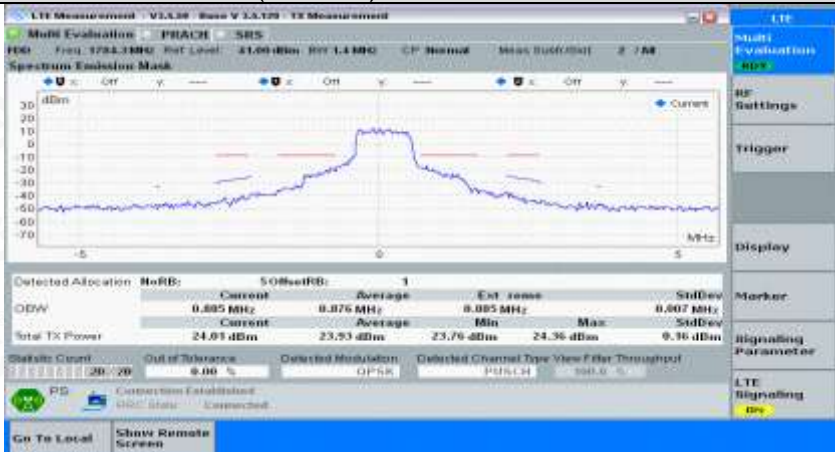
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

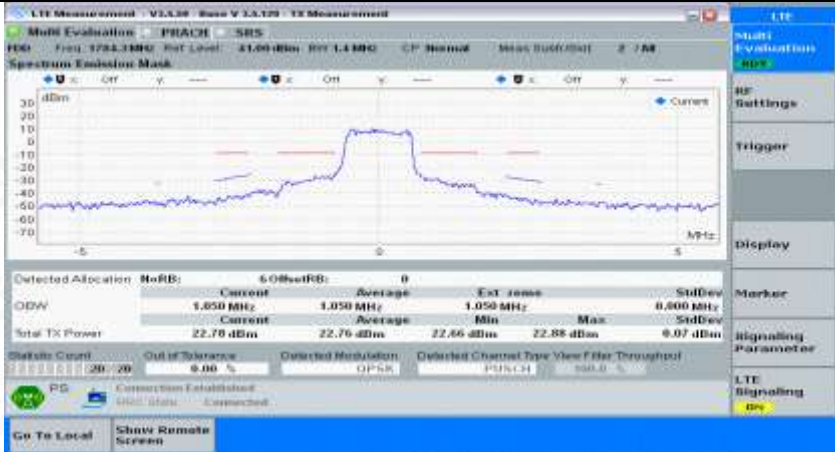
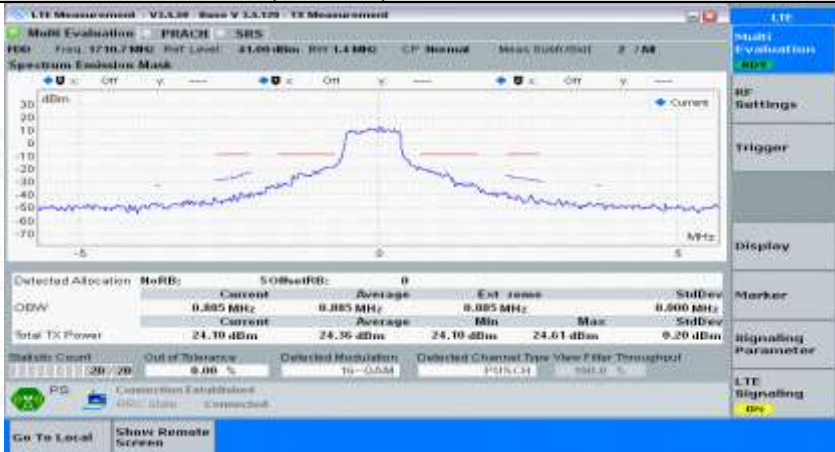
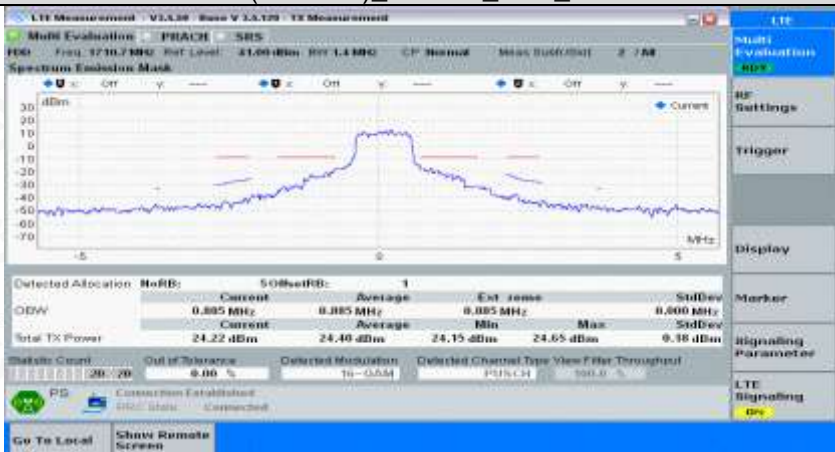
Tel: +86-755 2523 4088


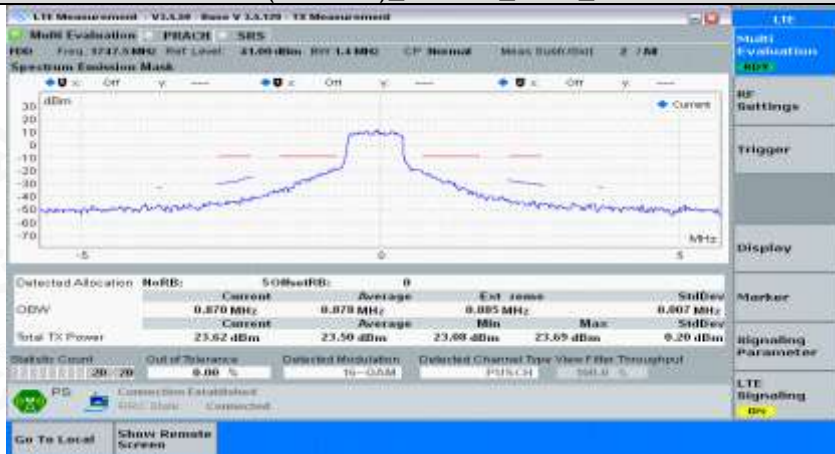
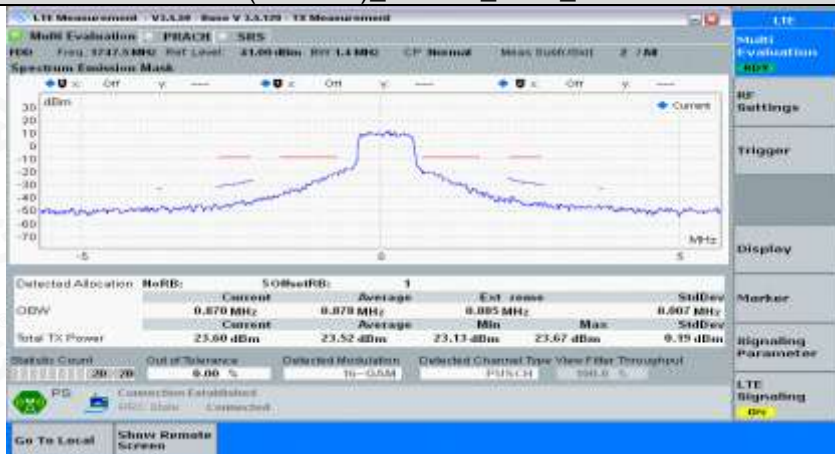
E-mail: agc@agc-cert.com

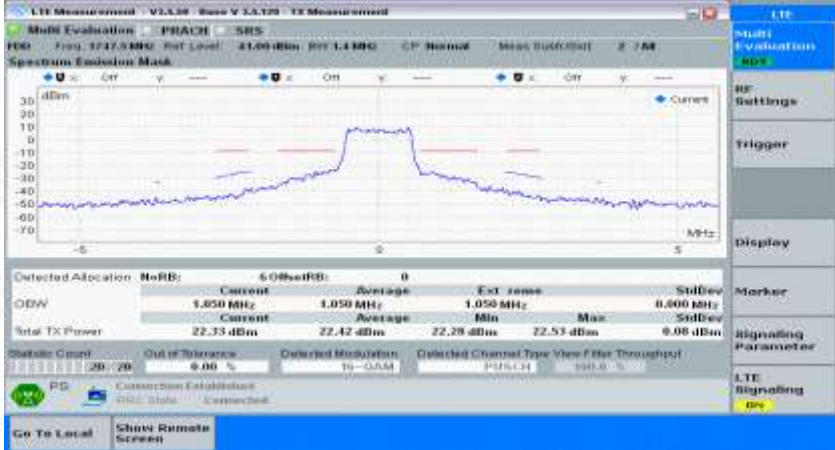
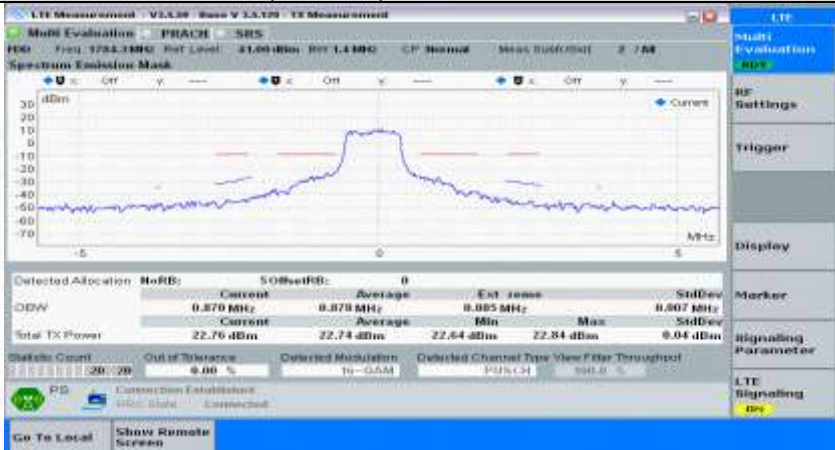
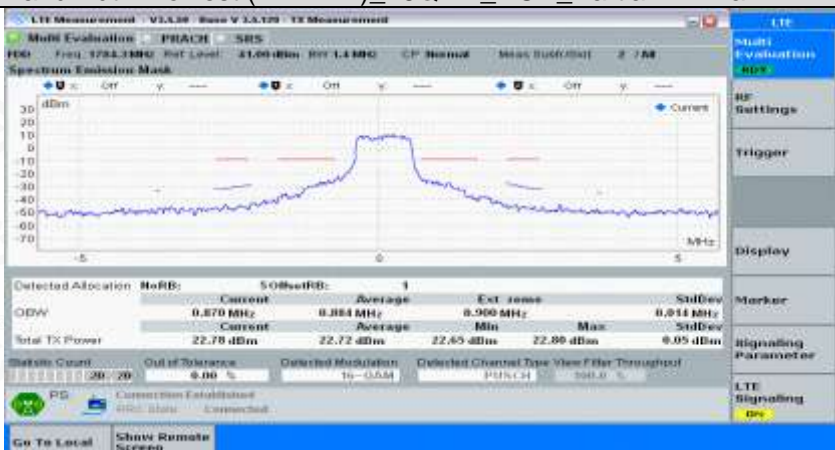
Service Hotline: 400 089 2118

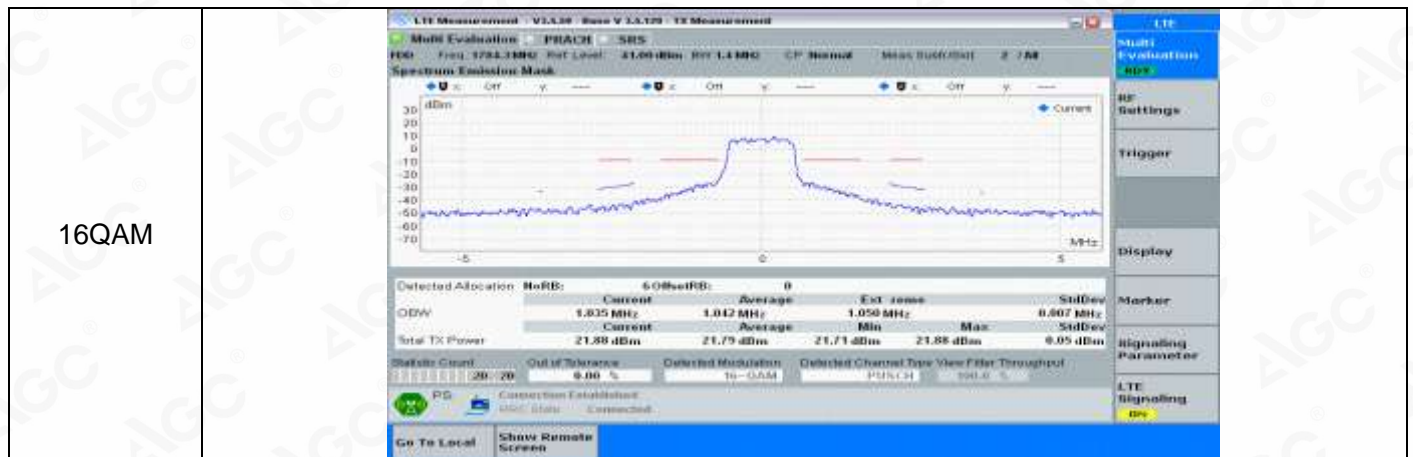
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QPSK	
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0	

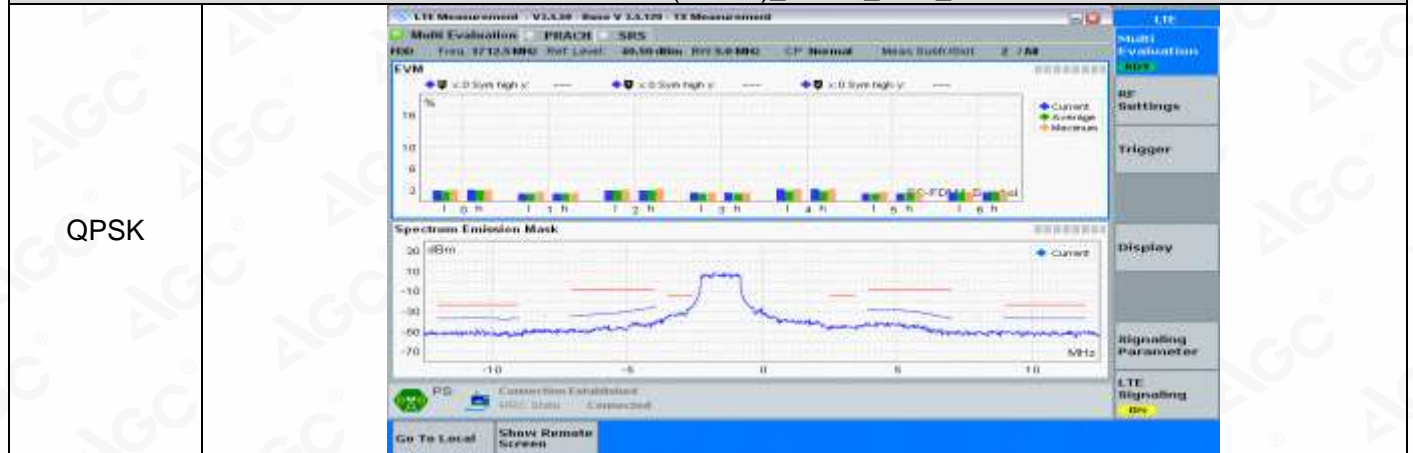
16QAM																																																	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0																																																	
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRBs</th><th colspan="2">50RBs</th><th colspan="2">RBs</th><th colspan="2">Ext. Jones</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th></tr><tr><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td></tr><tr><td>23.52 dBm</td><td>23.50 dBm</td><td>23.52 dBm</td><td>23.50 dBm</td><td>23.52 dBm</td><td>23.50 dBm</td><td>23.52 dBm</td><td>23.50 dBm</td><td>23.52 dBm</td><td>23.50 dBm</td><td>23.52 dBm</td><td>23.50 dBm</td></tr></table>	Detected Allocation		NoRBs		50RBs		RBs		Ext. Jones		SubDev		Current	Average	Current	Average	Current	Average	Current	Average	Current	Average	Current	Average	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm
Detected Allocation		NoRBs		50RBs		RBs		Ext. Jones		SubDev																																							
Current	Average	Current	Average	Current	Average	Current	Average	Current	Average	Current	Average																																						
0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz																																						
23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm	23.52 dBm	23.50 dBm																																						
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max																																																	
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRBs</th><th colspan="2">50RBs</th><th colspan="2">RBs</th><th colspan="2">Ext. Jones</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Current</th><th>Average</th></tr><tr><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td><td>0.870 MHz</td><td>0.878 MHz</td></tr><tr><td>23.60 dBm</td><td>23.52 dBm</td><td>23.60 dBm</td><td>23.52 dBm</td><td>23.60 dBm</td><td>23.52 dBm</td><td>23.60 dBm</td><td>23.52 dBm</td><td>23.60 dBm</td><td>23.52 dBm</td><td>23.60 dBm</td><td>23.52 dBm</td></tr></table>	Detected Allocation		NoRBs		50RBs		RBs		Ext. Jones		SubDev		Current	Average	Current	Average	Current	Average	Current	Average	Current	Average	Current	Average	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm
Detected Allocation		NoRBs		50RBs		RBs		Ext. Jones		SubDev																																							
Current	Average	Current	Average	Current	Average	Current	Average	Current	Average	Current	Average																																						
0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz	0.870 MHz	0.878 MHz																																						
23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm	23.60 dBm	23.52 dBm																																						
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0																																																	

16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0	



Channel Bandwidth= (5 MHz)


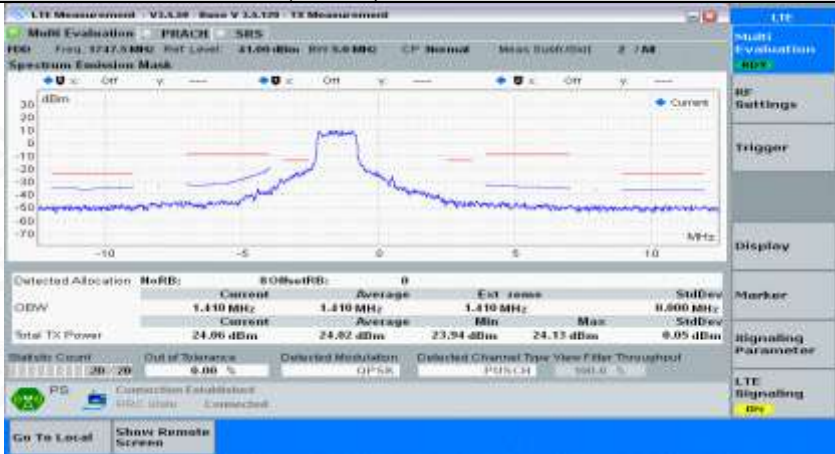
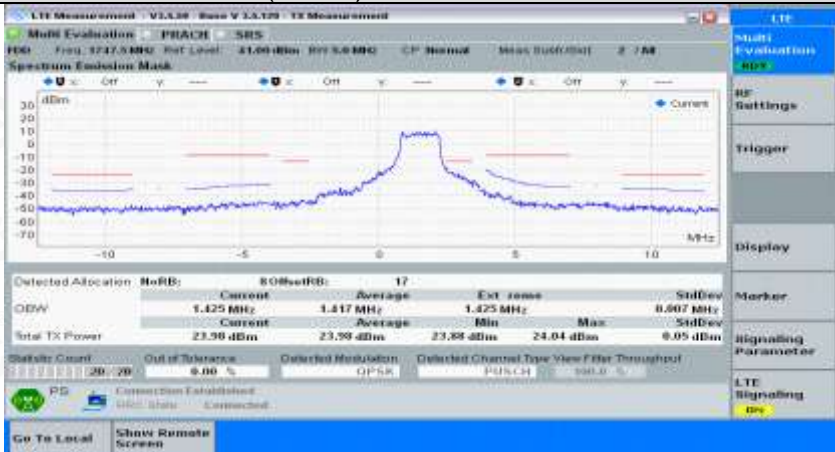
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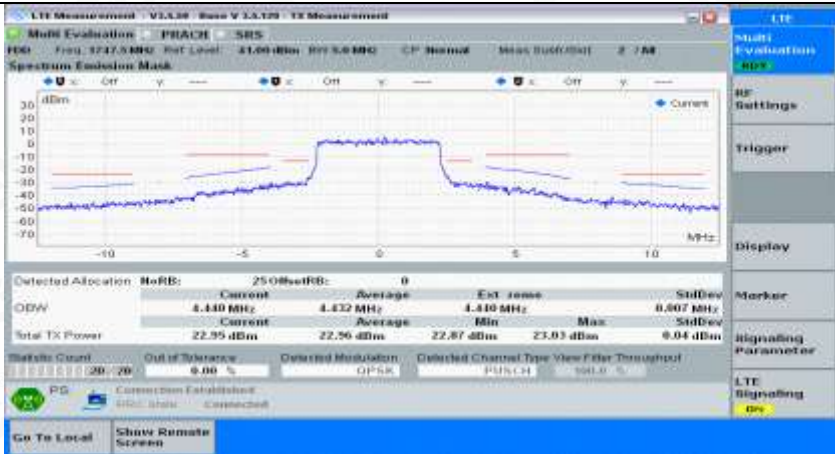
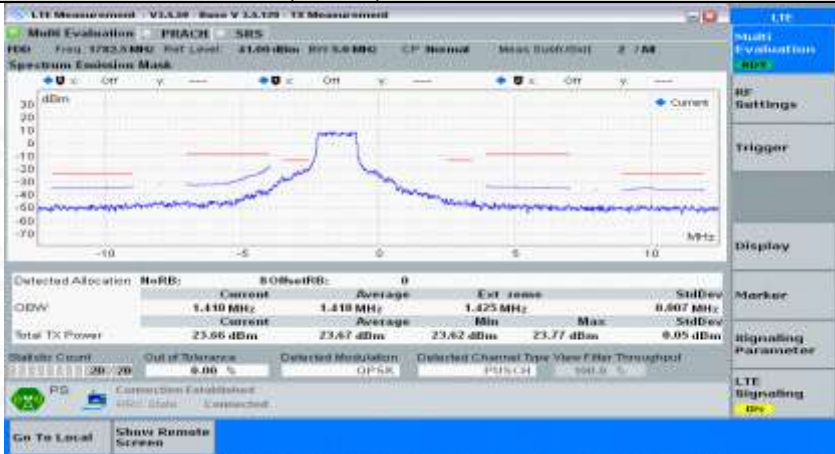
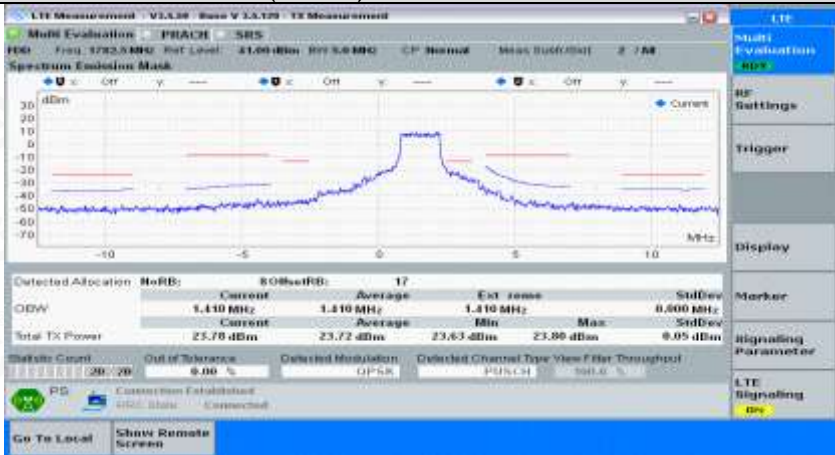


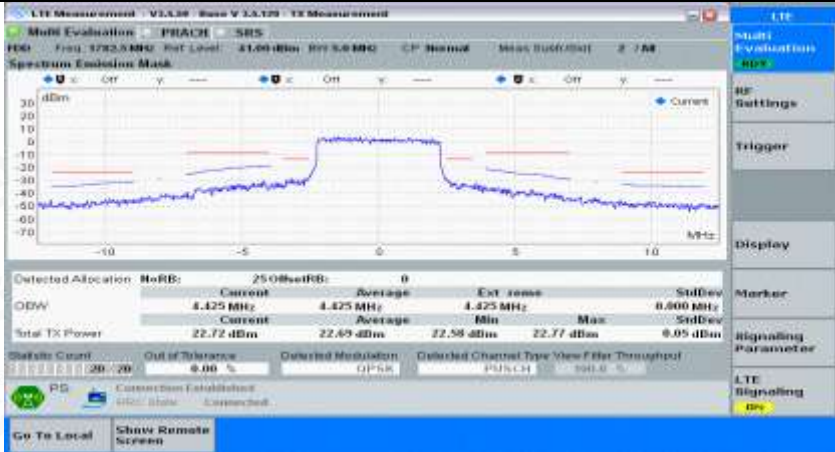
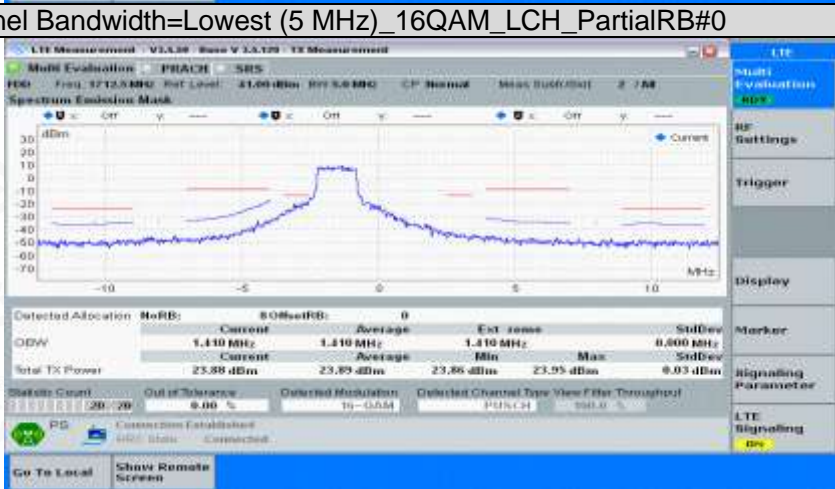
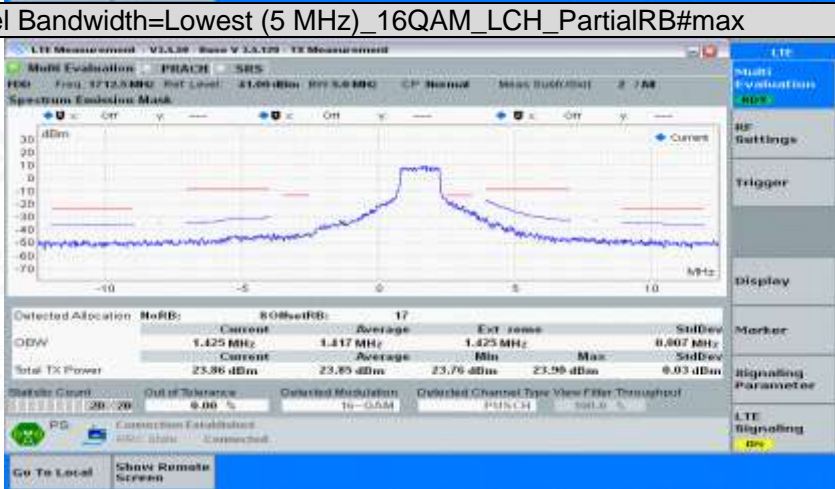
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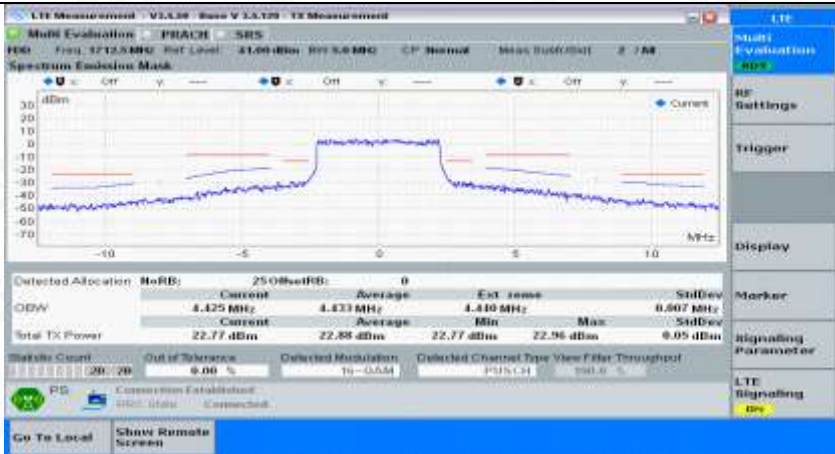
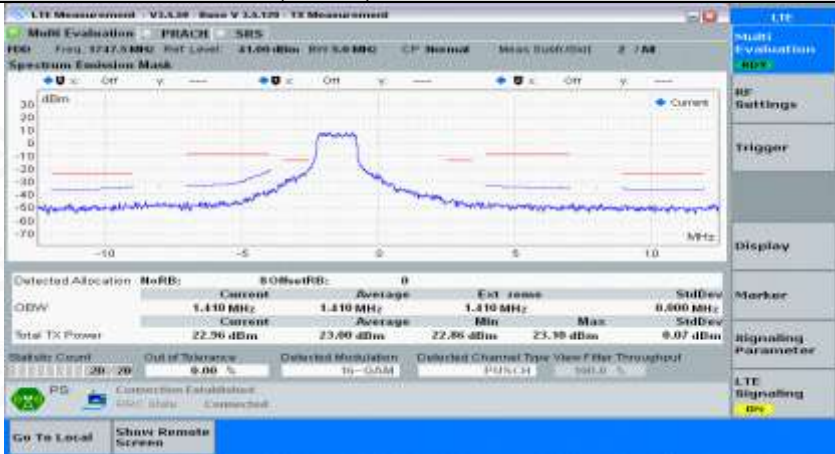
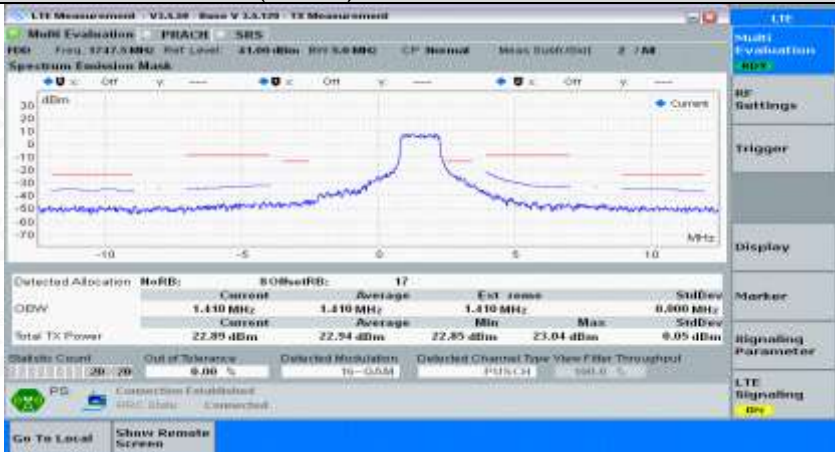


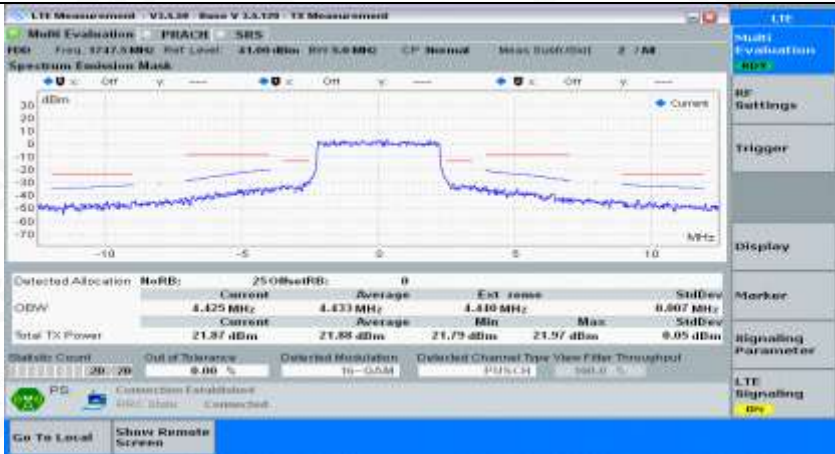
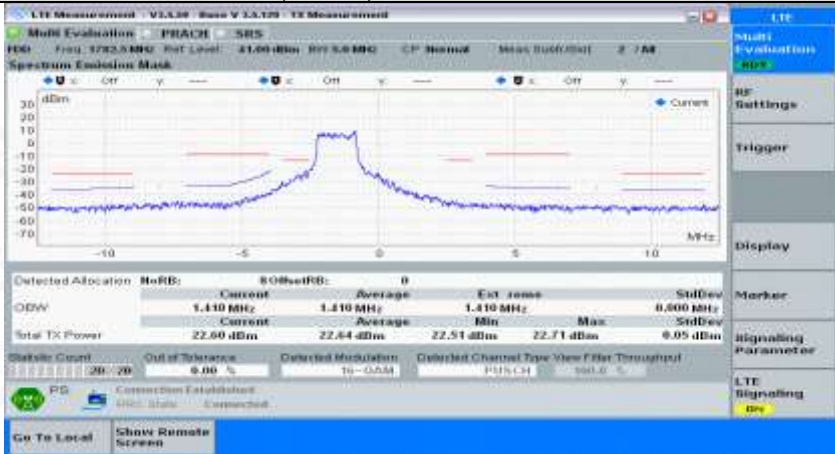
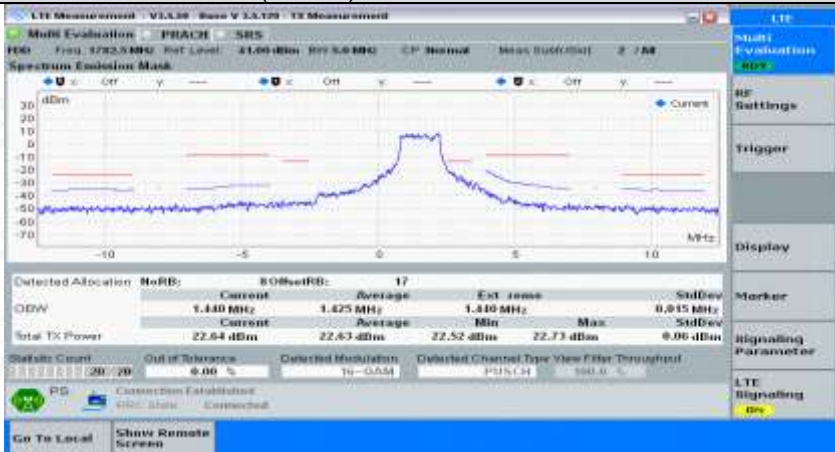
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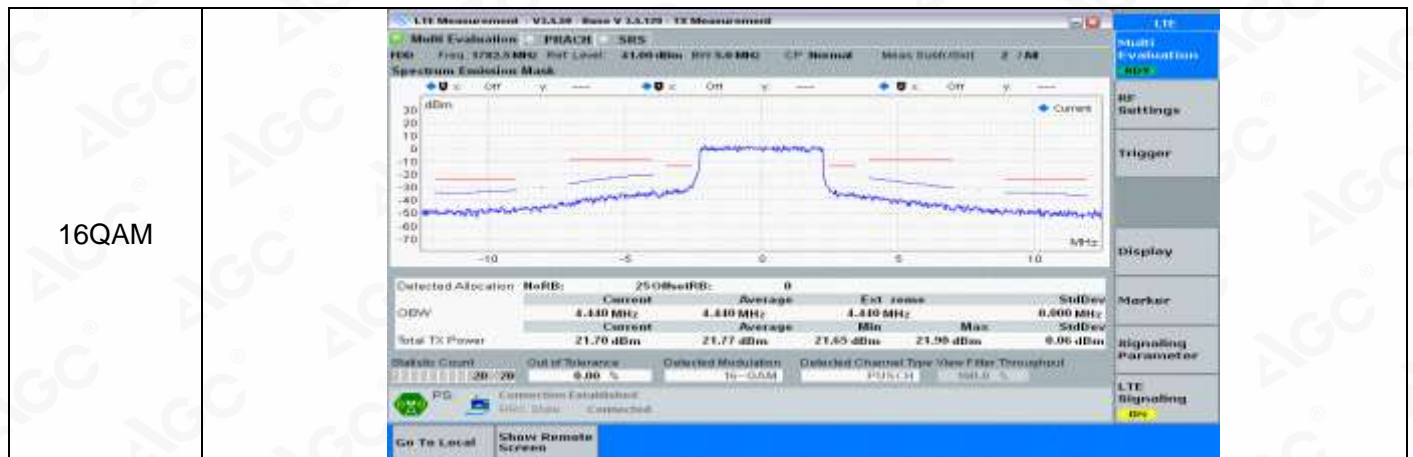
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	

QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0</p>

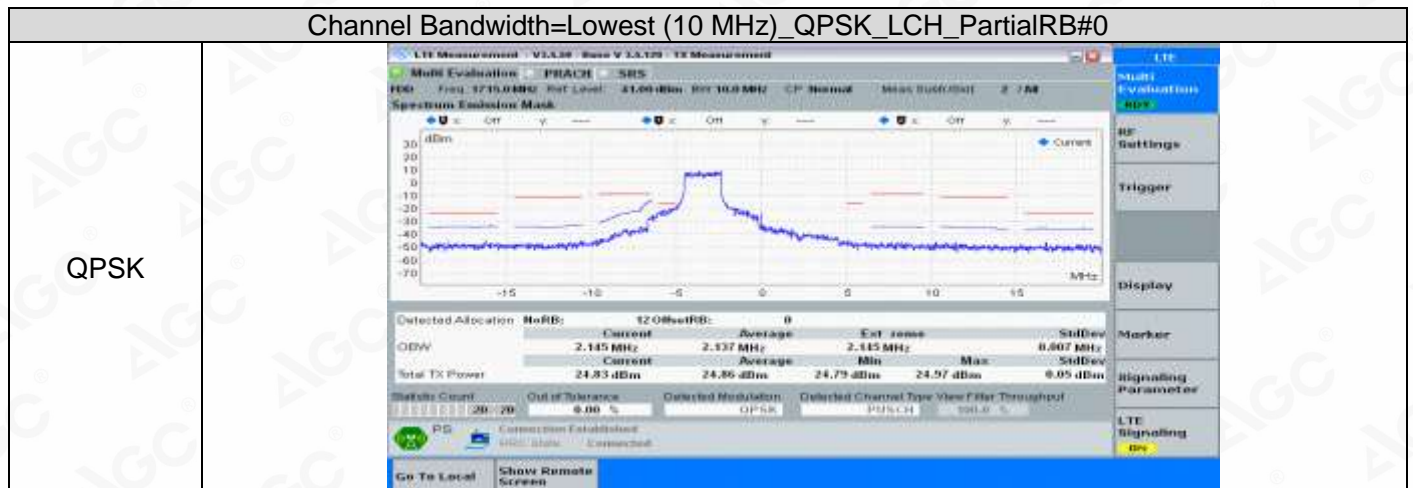
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Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	

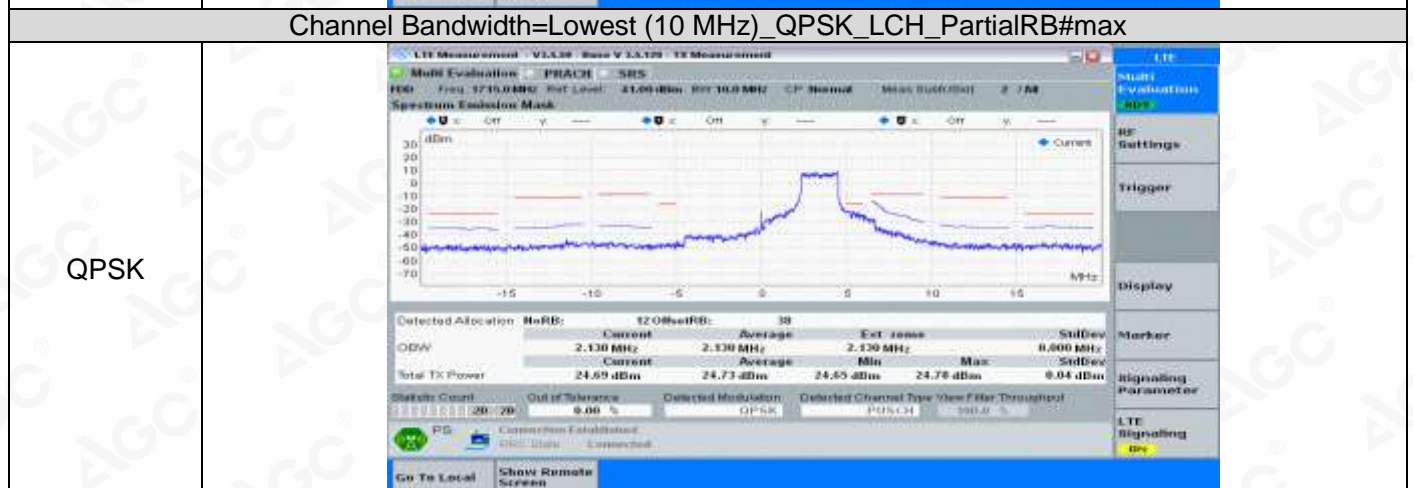


Channel Bandwidth= (10 MHz)


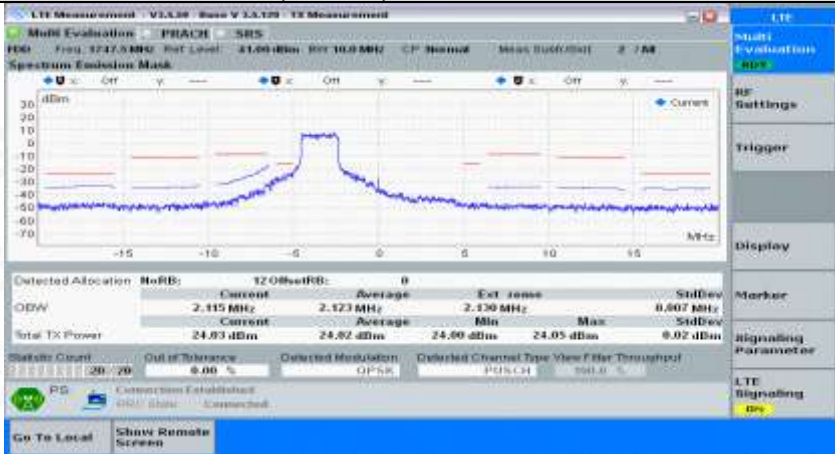
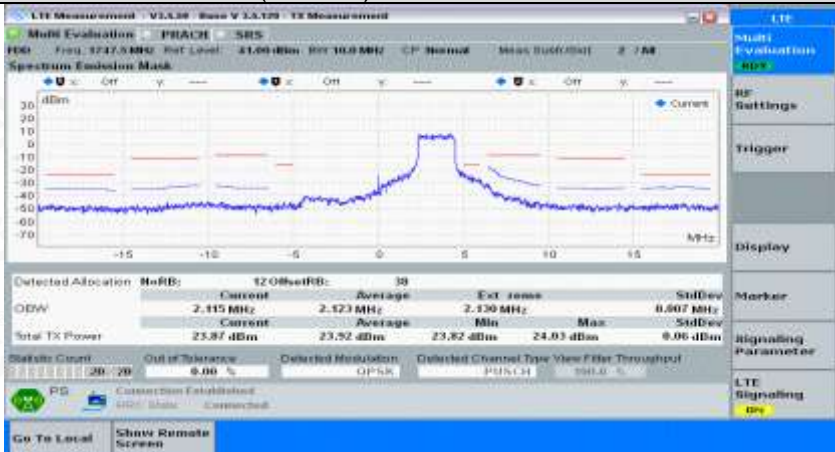
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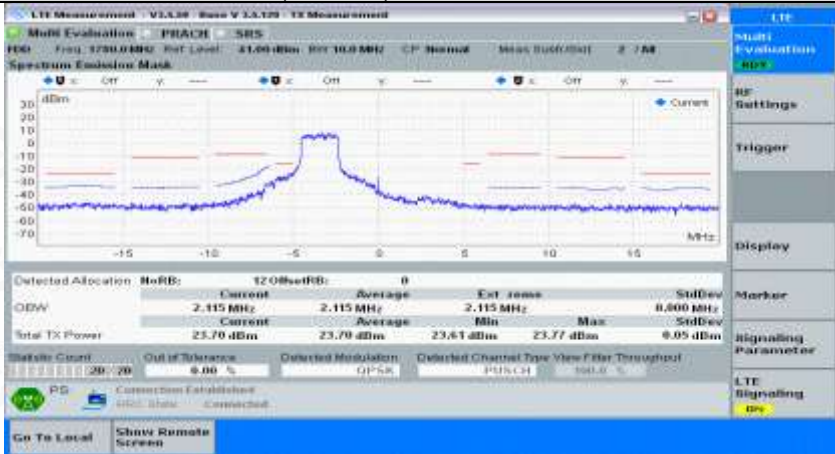
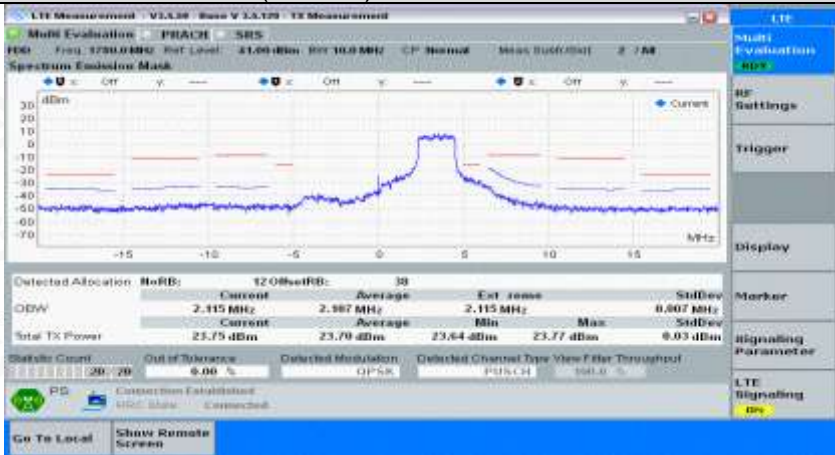




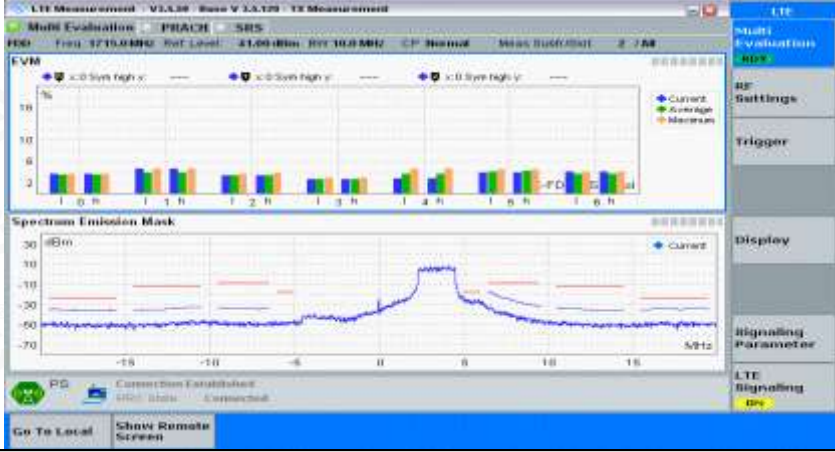
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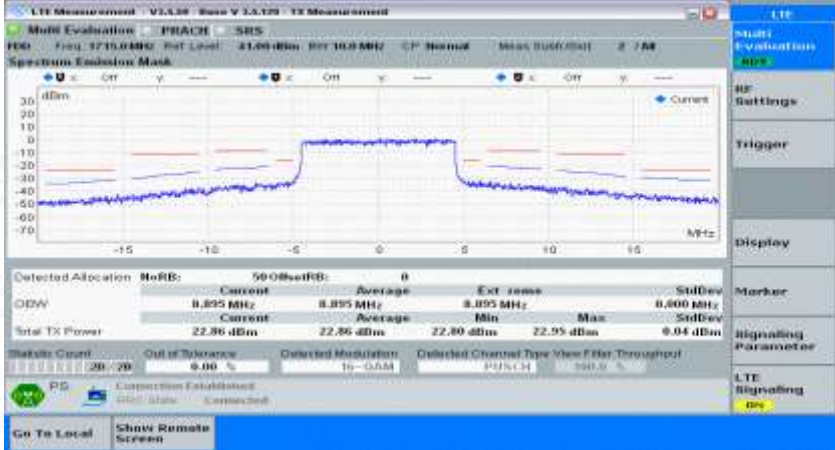
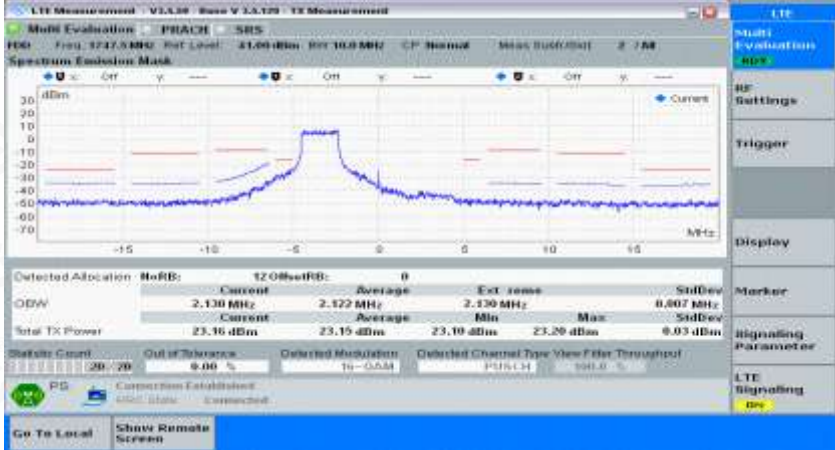
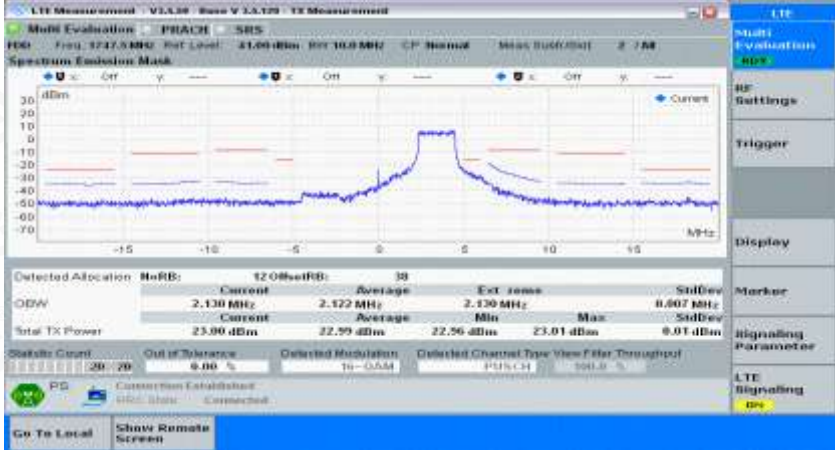


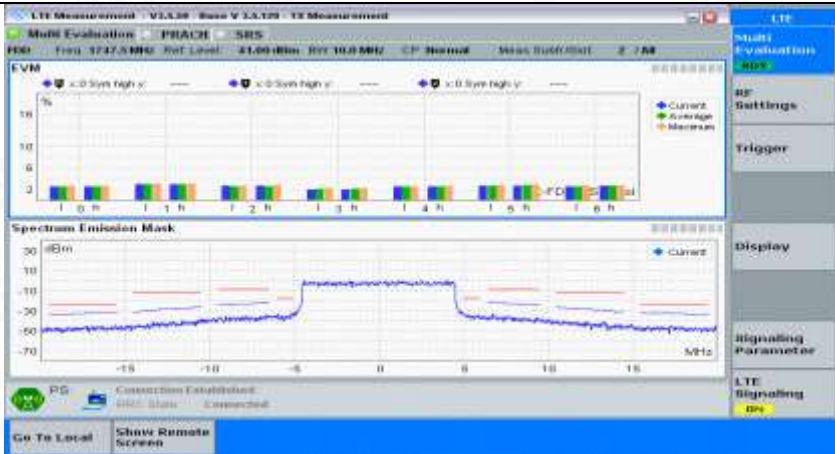
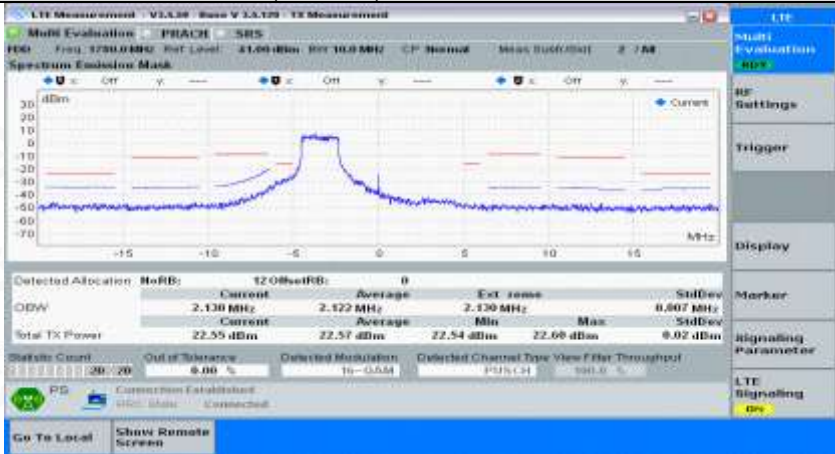
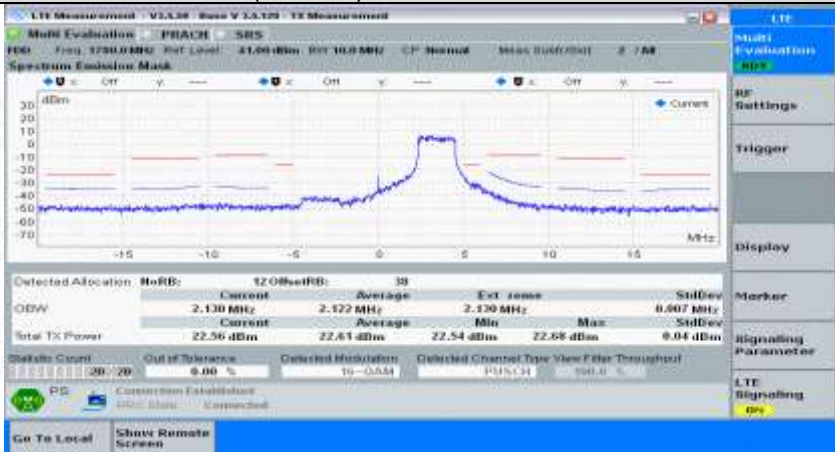
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Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	

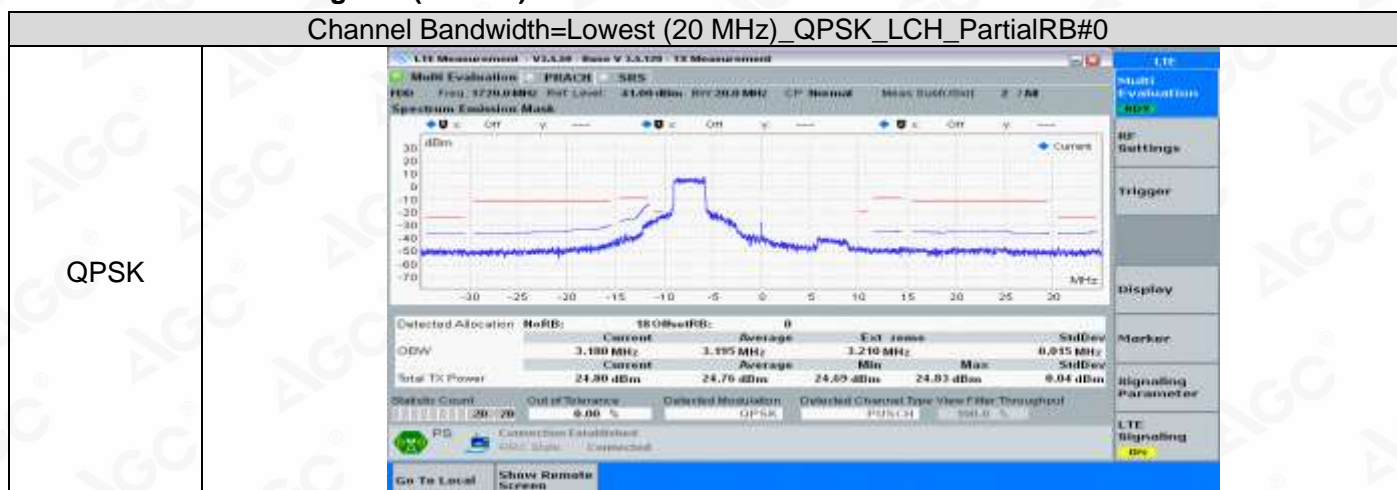
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	

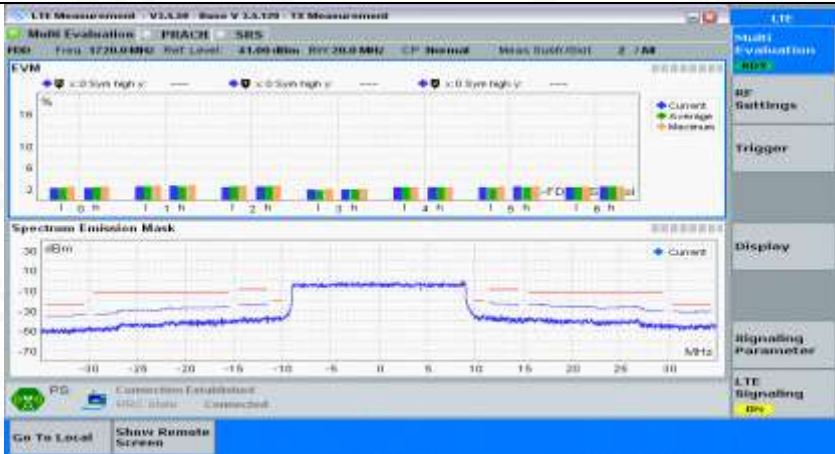
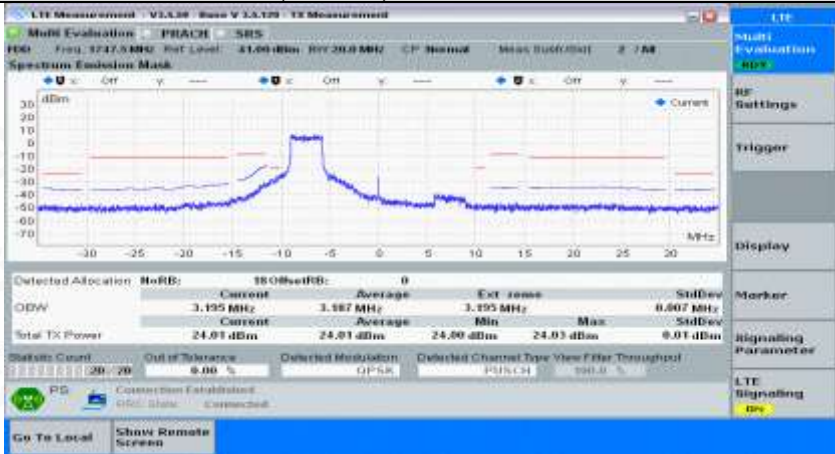
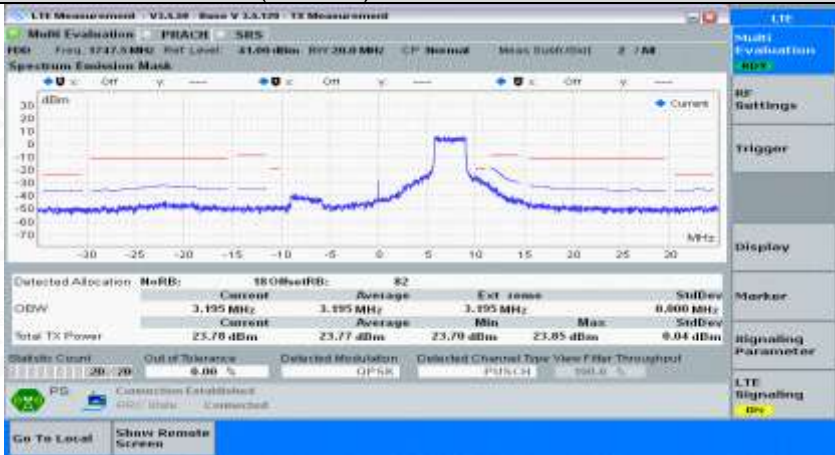
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	

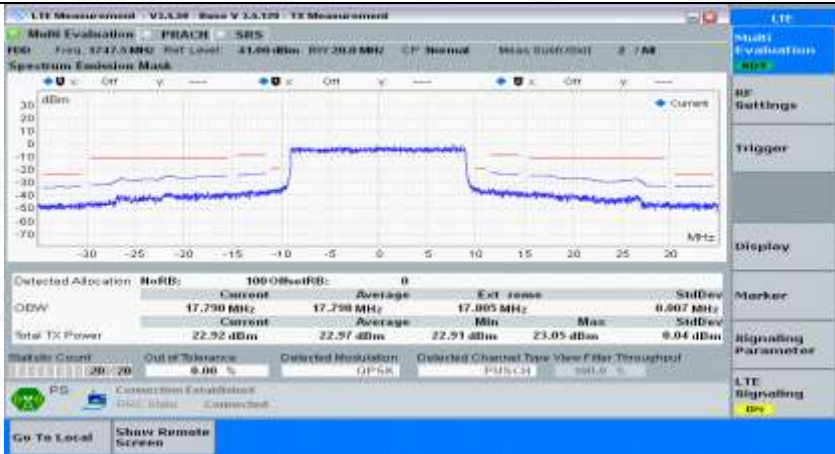
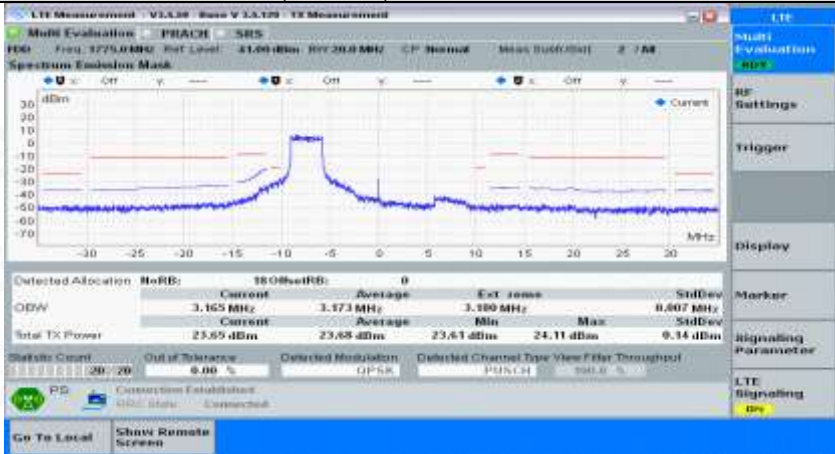
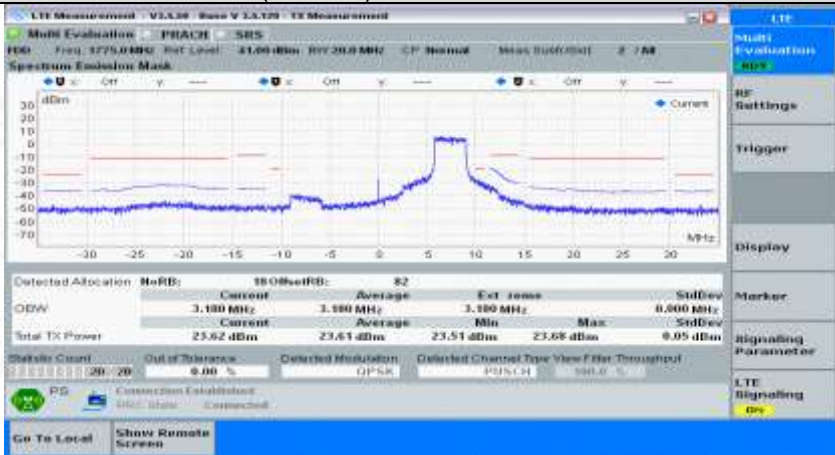


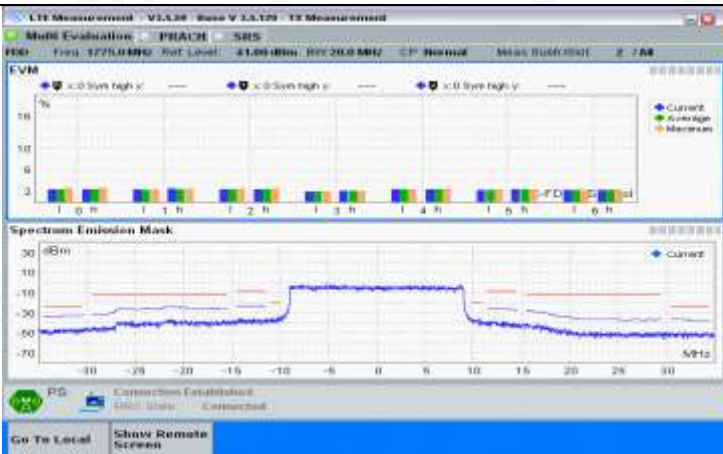
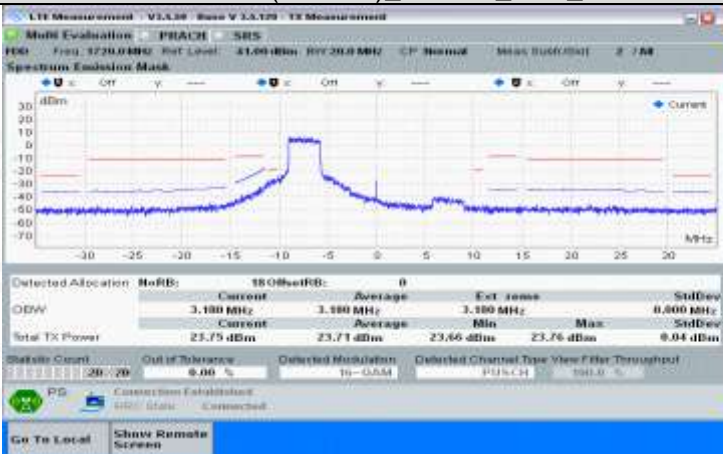
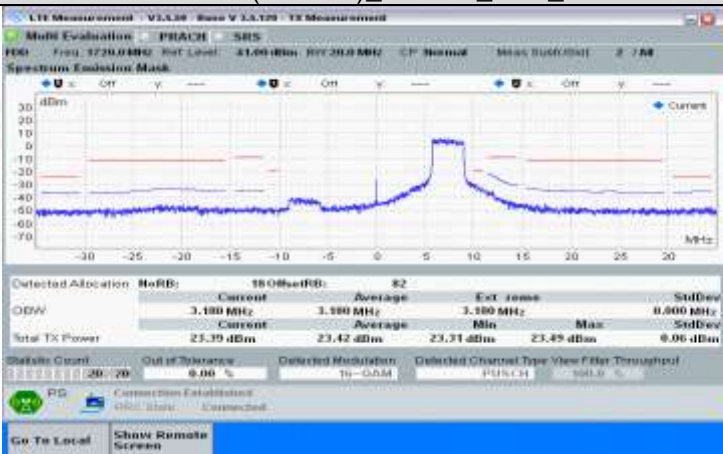
Channel Bandwidth=Highest (20 MHz)


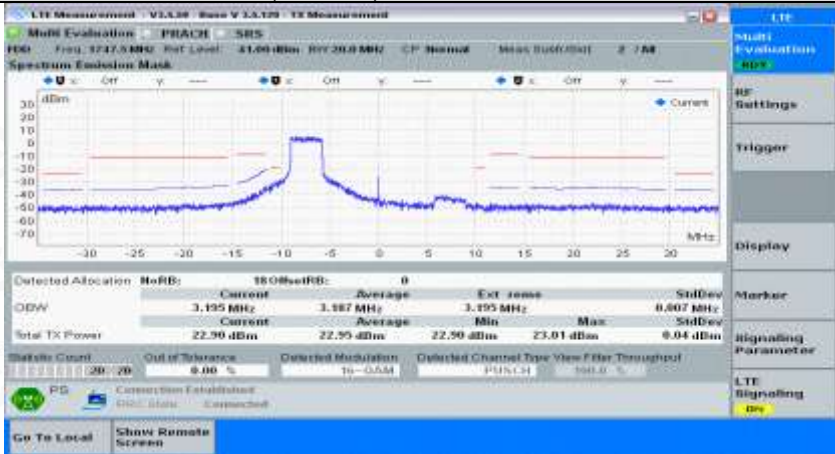
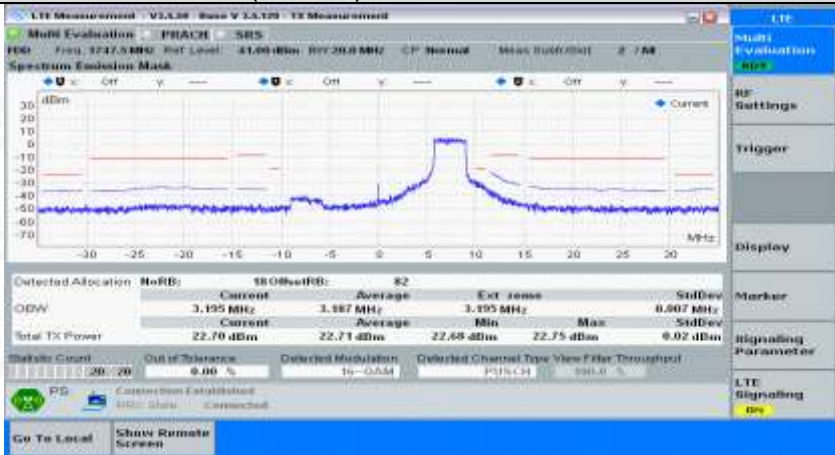


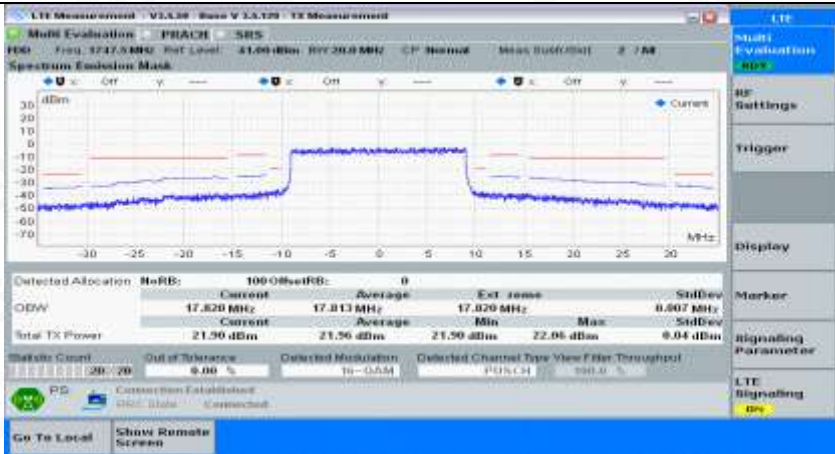
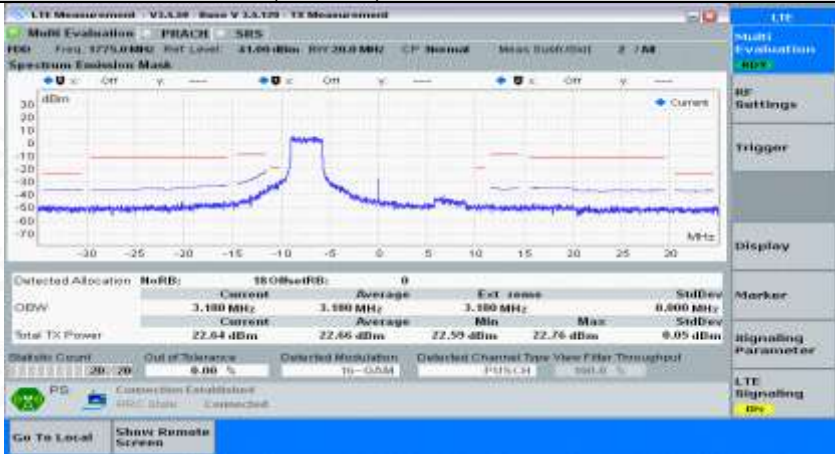
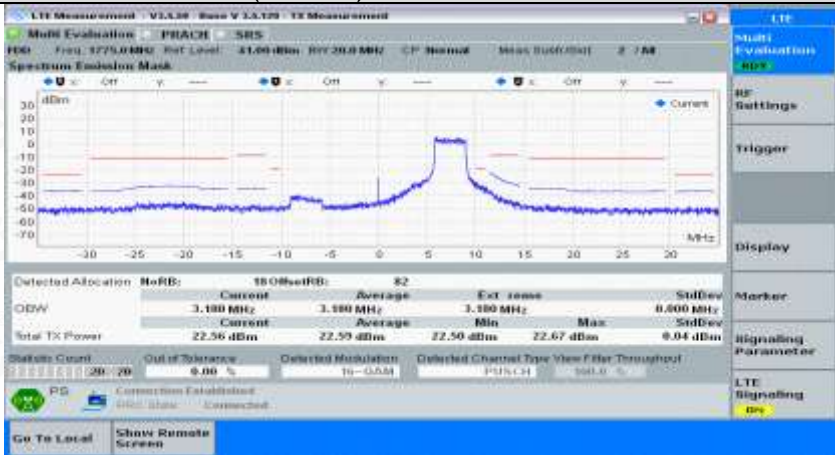
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0

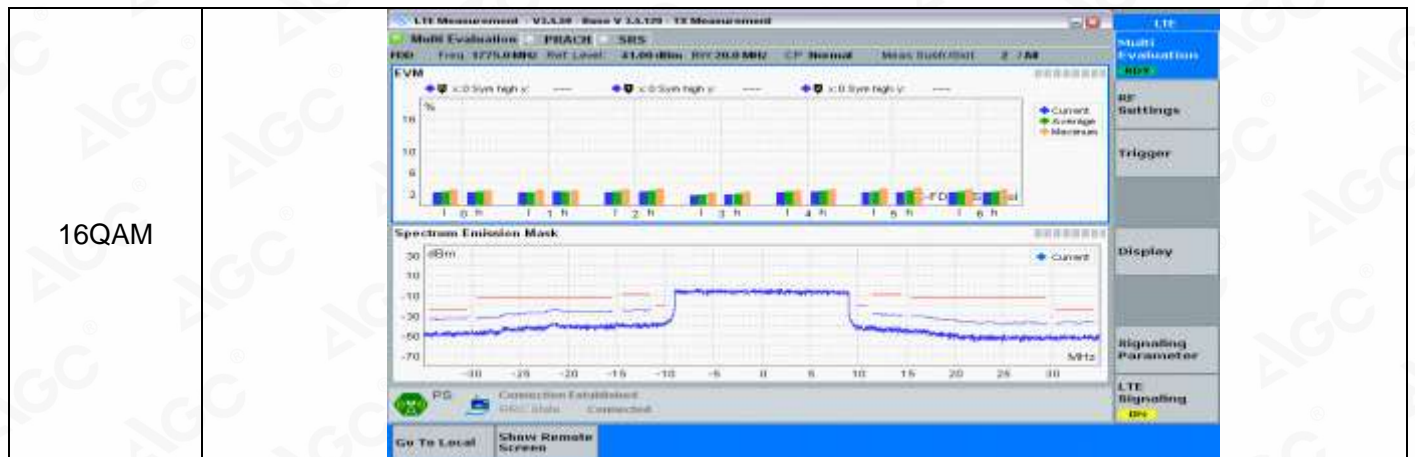
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	

QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>																																								
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0																																										
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB: 16QAM</th><th colspan="2">RB#0</th><th colspan="2">Ext. Index</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th></tr><tr><td>3.180 MHz</td><td>3.180 MHz</td><td>3.180 MHz</td><td>3.180 MHz</td><td>23.66 dBm</td><td>23.76 dBm</td><td>23.66 dBm</td><td>23.76 dBm</td><td>0.00 dBm</td><td>0.04 dBm</td></tr><tr><td colspan="2">Total TX Power</td><td colspan="2">23.75 dBm</td><td colspan="2">23.71 dBm</td><td colspan="2">23.66 dBm</td><td colspan="2">23.76 dBm</td></tr></table>	Detected Allocation		NoRB: 16QAM		RB#0		Ext. Index		SubDev		Current	Average	Current	Average	Min	Max	Min	Max	Min	Max	3.180 MHz	3.180 MHz	3.180 MHz	3.180 MHz	23.66 dBm	23.76 dBm	23.66 dBm	23.76 dBm	0.00 dBm	0.04 dBm	Total TX Power		23.75 dBm		23.71 dBm		23.66 dBm		23.76 dBm		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Detected Allocation		NoRB: 16QAM		RB#0		Ext. Index		SubDev																																		
Current	Average	Current	Average	Min	Max	Min	Max	Min	Max																																	
3.180 MHz	3.180 MHz	3.180 MHz	3.180 MHz	23.66 dBm	23.76 dBm	23.66 dBm	23.76 dBm	0.00 dBm	0.04 dBm																																	
Total TX Power		23.75 dBm		23.71 dBm		23.66 dBm		23.76 dBm																																		
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max																																										
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB: 16QAM</th><th colspan="2">RB#82</th><th colspan="2">Ext. Index</th><th colspan="2">SubDev</th></tr><tr><th>Current</th><th>Average</th><th>Current</th><th>Average</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th><th>Max</th></tr><tr><td>3.180 MHz</td><td>3.180 MHz</td><td>3.180 MHz</td><td>3.180 MHz</td><td>23.42 dBm</td><td>23.71 dBm</td><td>23.42 dBm</td><td>23.71 dBm</td><td>0.00 dBm</td><td>0.06 dBm</td></tr><tr><td colspan="2">Total TX Power</td><td colspan="2">23.39 dBm</td><td colspan="2">23.42 dBm</td><td colspan="2">23.71 dBm</td><td colspan="2">23.42 dBm</td></tr></table>	Detected Allocation		NoRB: 16QAM		RB#82		Ext. Index		SubDev		Current	Average	Current	Average	Min	Max	Min	Max	Min	Max	3.180 MHz	3.180 MHz	3.180 MHz	3.180 MHz	23.42 dBm	23.71 dBm	23.42 dBm	23.71 dBm	0.00 dBm	0.06 dBm	Total TX Power		23.39 dBm		23.42 dBm		23.71 dBm		23.42 dBm		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Detected Allocation		NoRB: 16QAM		RB#82		Ext. Index		SubDev																																		
Current	Average	Current	Average	Min	Max	Min	Max	Min	Max																																	
3.180 MHz	3.180 MHz	3.180 MHz	3.180 MHz	23.42 dBm	23.71 dBm	23.42 dBm	23.71 dBm	0.00 dBm	0.06 dBm																																	
Total TX Power		23.39 dBm		23.42 dBm		23.71 dBm		23.42 dBm																																		
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0																																										

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full			0	PUMAX	Pass	
	16QAM		Low range	Partial	0	PUMAX	Pass
max		PUMAX			Pass		



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				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass








	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass




Test Graphs




NTNV

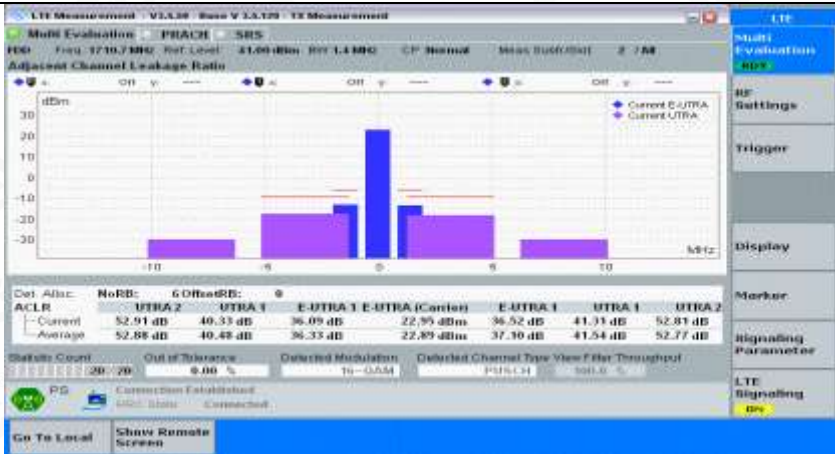
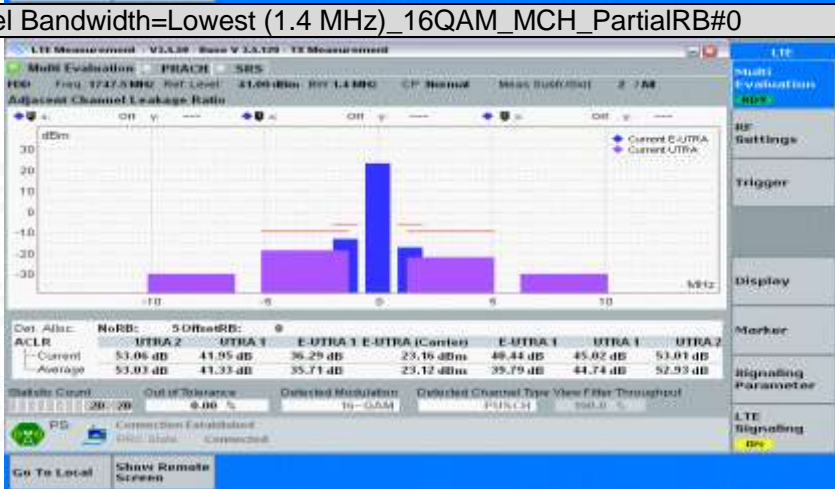
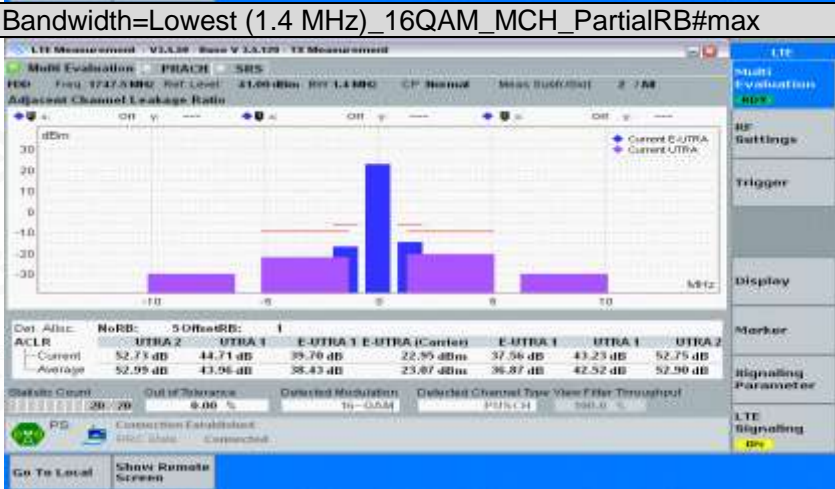
Channel Bandwidth=Lowest (1.4 MHz)




Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0	

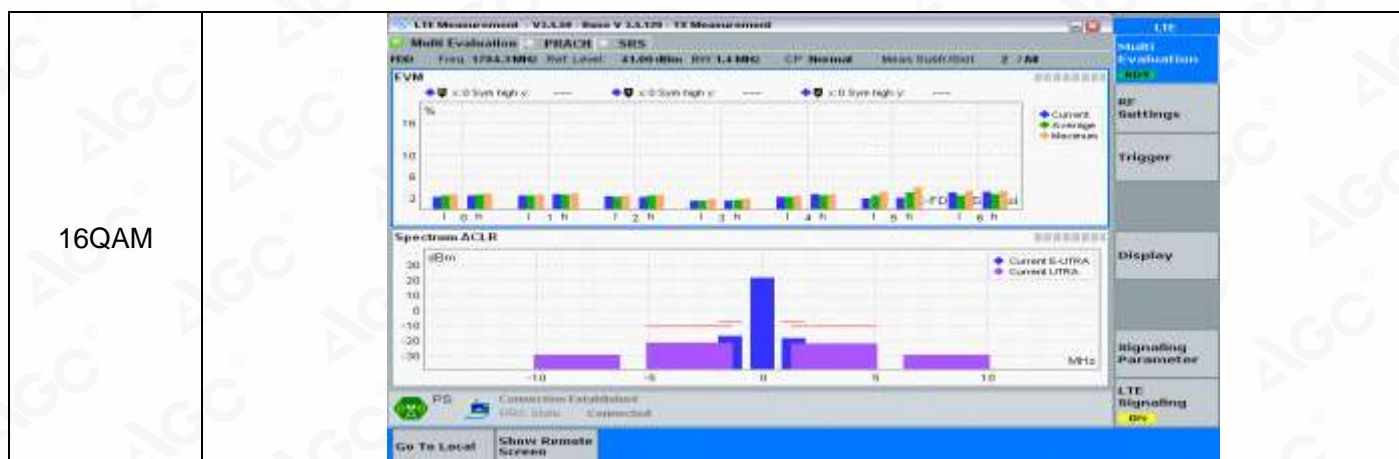
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0	

QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0	



16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0</p>

16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0	






Channel Bandwidth=(5 MHz)



QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	

QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0</p>

QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	

16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0</p>



Channel Bandwidth= (10 MHz)


Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0


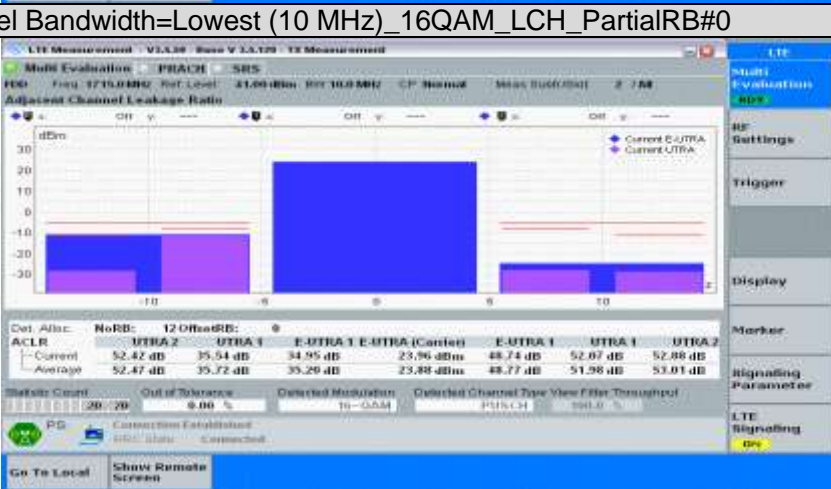
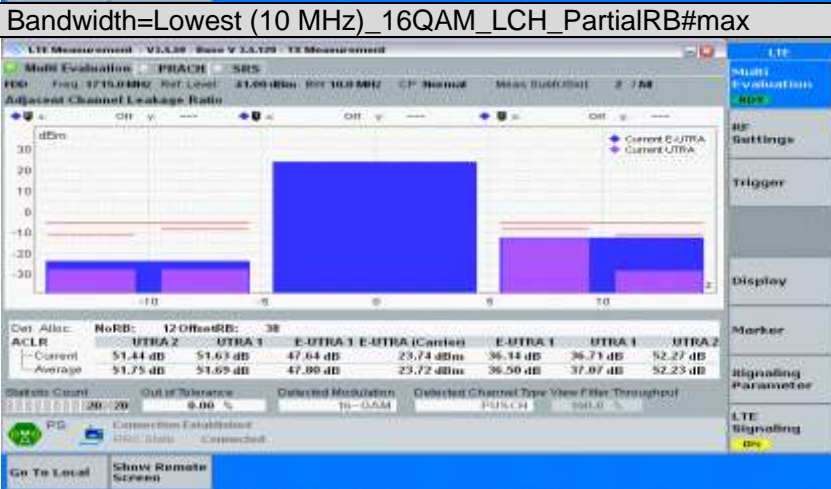


Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max






Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0

QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0</p>	<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>																																	
QPSK	 <table><tr><th>Det. Albr.</th><th>NoRB</th><th>12 OffRB</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>52.44 dB</td><td>37.23 dB</td><td>36.59 dB</td><td>24.86 dBm</td><td>48.89 dB</td><td>52.10 dB</td><td>53.07 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>52.44 dB</td><td>37.46 dB</td><td>36.89 dB</td><td>24.83 dBm</td><td>48.85 dB</td><td>52.11 dB</td><td>53.00 dB</td><td></td><td></td><td></td></tr></table> <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>	Det. Albr.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	52.44 dB	37.23 dB	36.59 dB	24.86 dBm	48.89 dB	52.10 dB	53.07 dB				Average	52.44 dB	37.46 dB	36.89 dB	24.83 dBm	48.85 dB	52.11 dB	53.00 dB				<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Det. Albr.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																									
Current	52.44 dB	37.23 dB	36.59 dB	24.86 dBm	48.89 dB	52.10 dB	53.07 dB																												
Average	52.44 dB	37.46 dB	36.89 dB	24.83 dBm	48.85 dB	52.11 dB	53.00 dB																												
QPSK	 <table><tr><th>Det. Albr.</th><th>NoRB</th><th>12 OffRB</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.94 dB</td><td>51.77 dB</td><td>47.89 dB</td><td>23.86 dBm</td><td>37.03 dB</td><td>37.67 dB</td><td>52.62 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>51.86 dB</td><td>51.70 dB</td><td>47.84 dB</td><td>23.91 dBm</td><td>37.20 dB</td><td>37.78 dB</td><td>52.46 dB</td><td></td><td></td><td></td></tr></table> <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0</p>	Det. Albr.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.94 dB	51.77 dB	47.89 dB	23.86 dBm	37.03 dB	37.67 dB	52.62 dB				Average	51.86 dB	51.70 dB	47.84 dB	23.91 dBm	37.20 dB	37.78 dB	52.46 dB				<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Det. Albr.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																									
Current	51.94 dB	51.77 dB	47.89 dB	23.86 dBm	37.03 dB	37.67 dB	52.62 dB																												
Average	51.86 dB	51.70 dB	47.84 dB	23.91 dBm	37.20 dB	37.78 dB	52.46 dB																												

QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>	<p>Multi Evaluation RF Settings Trigger Display Marker Signaling Parameter LTE Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>	<p>Multi Evaluation RF Settings Trigger Display Marker Signaling Parameter LTE Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>	<p>Multi Evaluation RF Settings Trigger Display Marker Signaling Parameter LTE Signaling</p>



16QAM		<div>LTE</div> <div>Multi-Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>																																	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0																																			
16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>12 OffRB</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA 1 (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.72 dB</td><td>37.69 dB</td><td>37.19 dB</td><td>23.12 dBm</td><td>48.17 dB</td><td>51.54 dB</td><td>52.29 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>51.78 dB</td><td>38.03 dB</td><td>37.47 dB</td><td>23.12 dBm</td><td>48.09 dB</td><td>51.45 dB</td><td>52.18 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.72 dB	37.69 dB	37.19 dB	23.12 dBm	48.17 dB	51.54 dB	52.29 dB				Average	51.78 dB	38.03 dB	37.47 dB	23.12 dBm	48.09 dB	51.45 dB	52.18 dB				<div>LTE</div> <div>Multi-Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																									
Current	51.72 dB	37.69 dB	37.19 dB	23.12 dBm	48.17 dB	51.54 dB	52.29 dB																												
Average	51.78 dB	38.03 dB	37.47 dB	23.12 dBm	48.09 dB	51.45 dB	52.18 dB																												
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max																																			
16QAM	 <table><tr><th>Det. Alloc.</th><th>NoRB</th><th>12 OffRB</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA 1 (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>51.16 dB</td><td>51.26 dB</td><td>47.37 dB</td><td>22.86 dBm</td><td>37.25 dB</td><td>37.87 dB</td><td>51.71 dB</td><td></td><td></td><td></td></tr><tr><td>Average</td><td>51.38 dB</td><td>51.25 dB</td><td>47.45 dB</td><td>22.55 dBm</td><td>37.87 dB</td><td>38.31 dB</td><td>51.82 dB</td><td></td><td></td><td></td></tr></table>	Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	51.16 dB	51.26 dB	47.37 dB	22.86 dBm	37.25 dB	37.87 dB	51.71 dB				Average	51.38 dB	51.25 dB	47.45 dB	22.55 dBm	37.87 dB	38.31 dB	51.82 dB				<div>LTE</div> <div>Multi-Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Det. Alloc.	NoRB	12 OffRB	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA 1 (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																									
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Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0																																			



Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

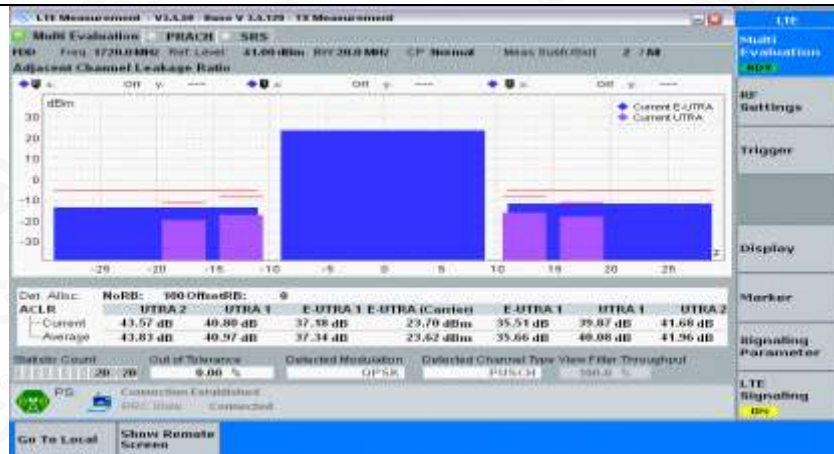


Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max



Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0



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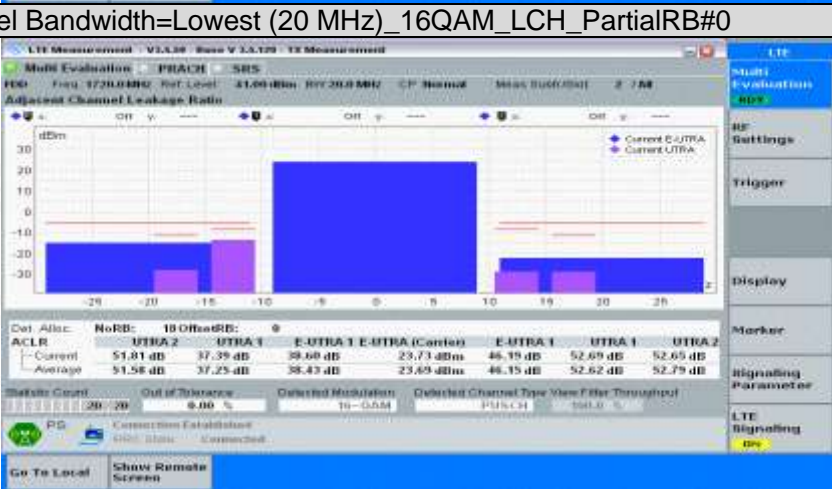
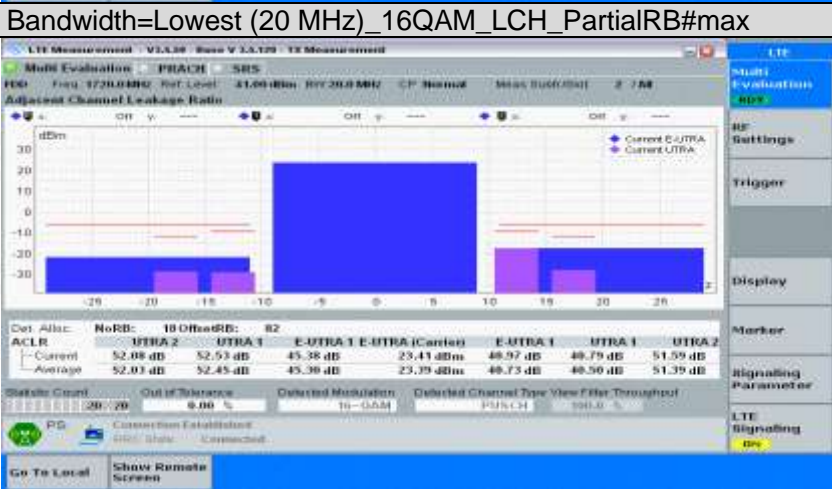
Tel: +86-755 2523 4088




E-mail: agc@agc-cert.com

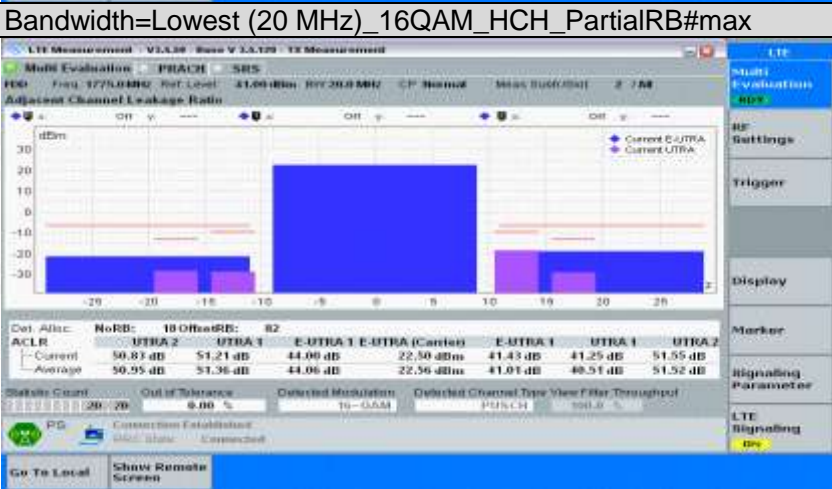
Service Hotline: 400 089 2118

QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>



QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>	<p>Multi-Evaluation: Pass</p> <p>RF-Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling-Parameter</p> <p>LTE-Signaling: On</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>	<p>Multi-Evaluation: Pass</p> <p>RF-Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling-Parameter</p> <p>LTE-Signaling: On</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>	<p>Multi-Evaluation: Pass</p> <p>RF-Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling-Parameter</p> <p>LTE-Signaling: On</p>

16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>

16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>



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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



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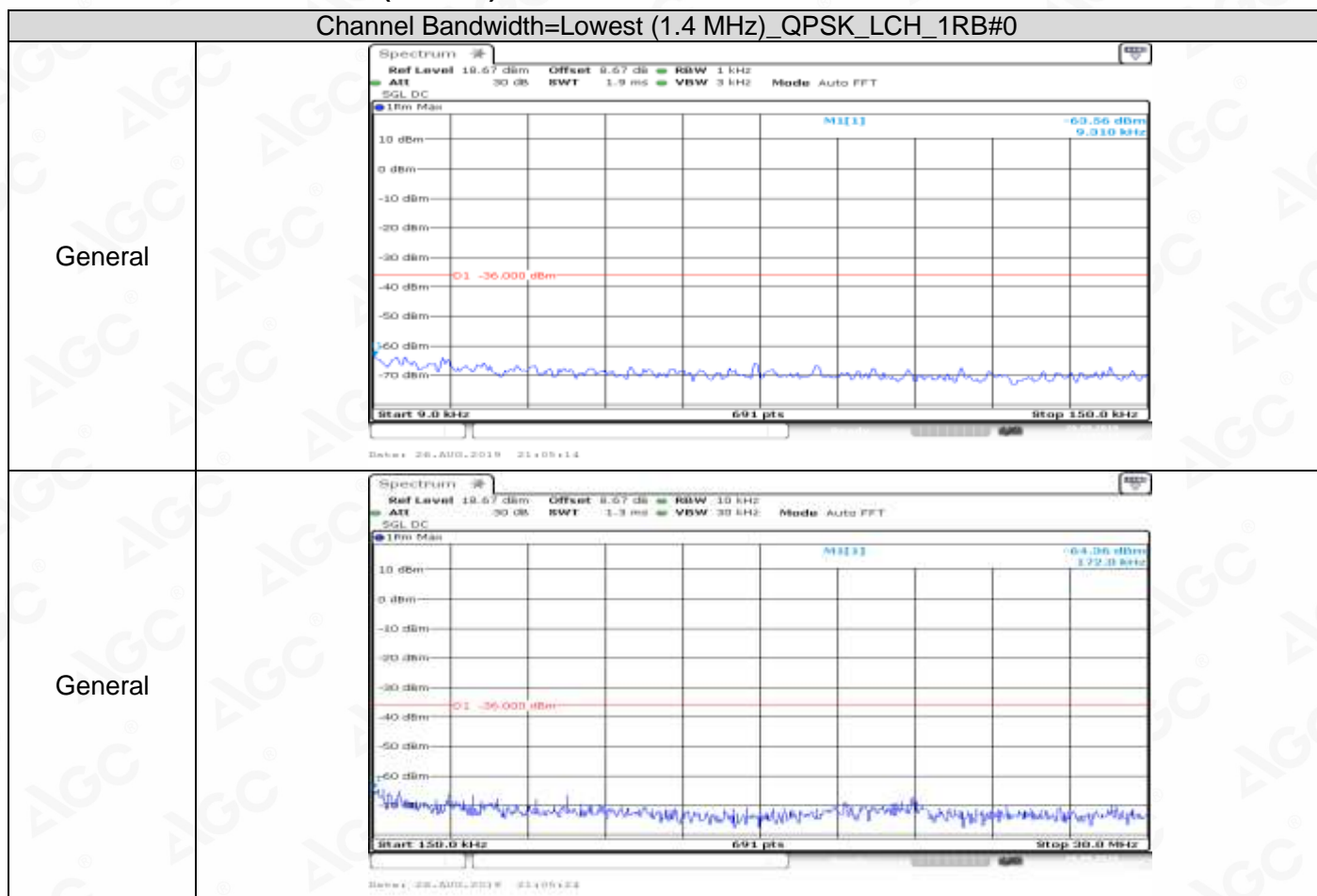
Service Hotline: 400 089 2118

			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)



Attestation of Global Compliance

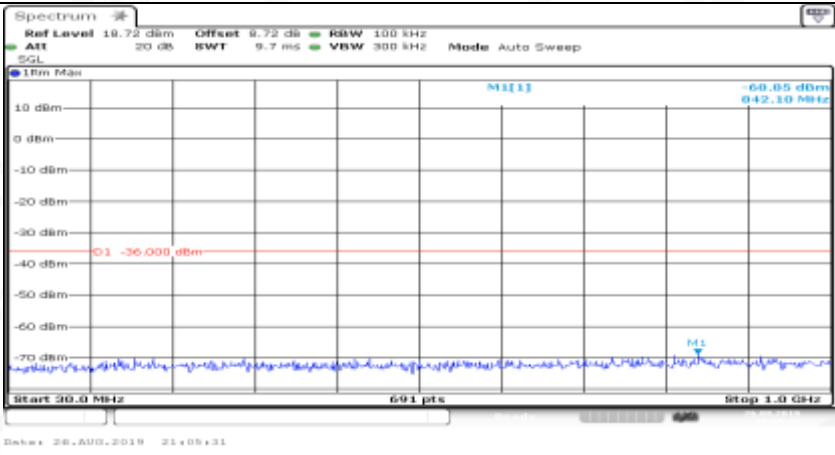
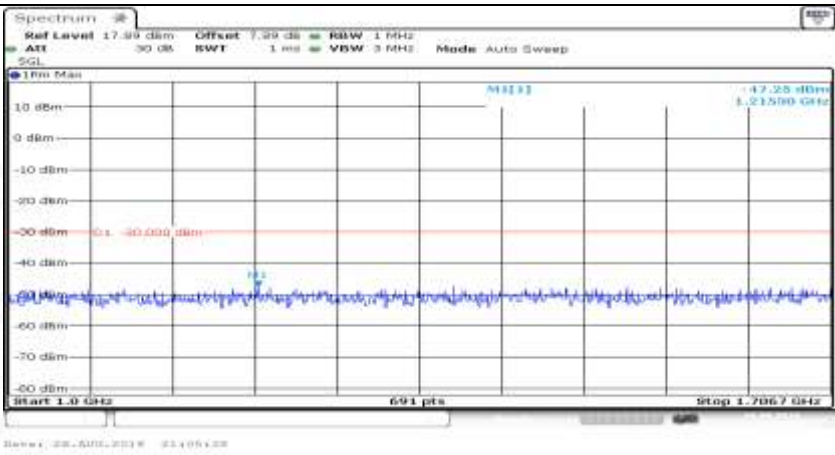
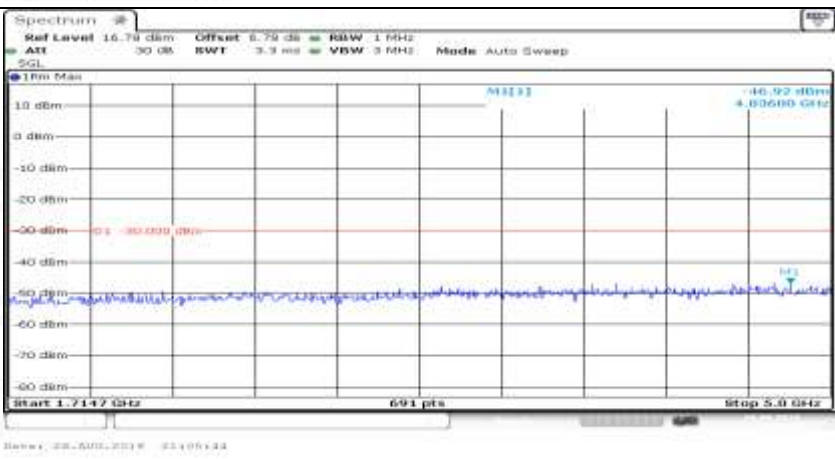
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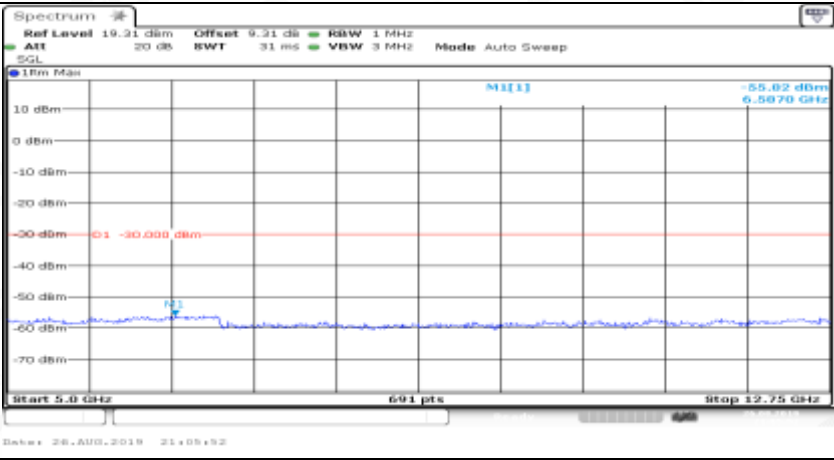
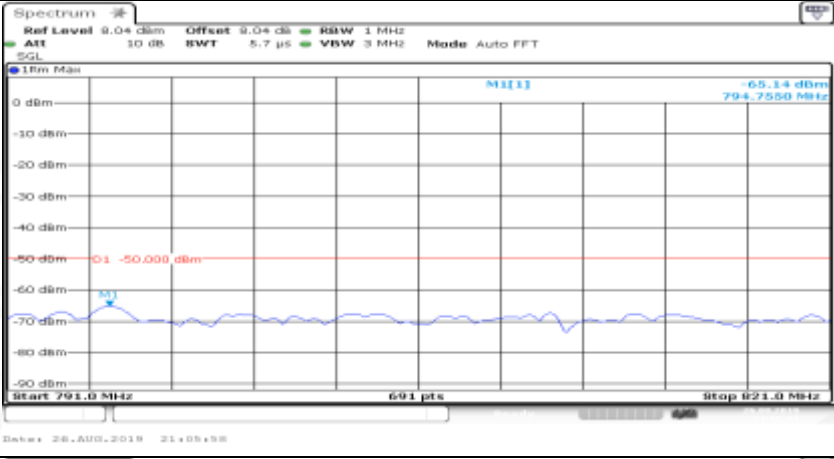
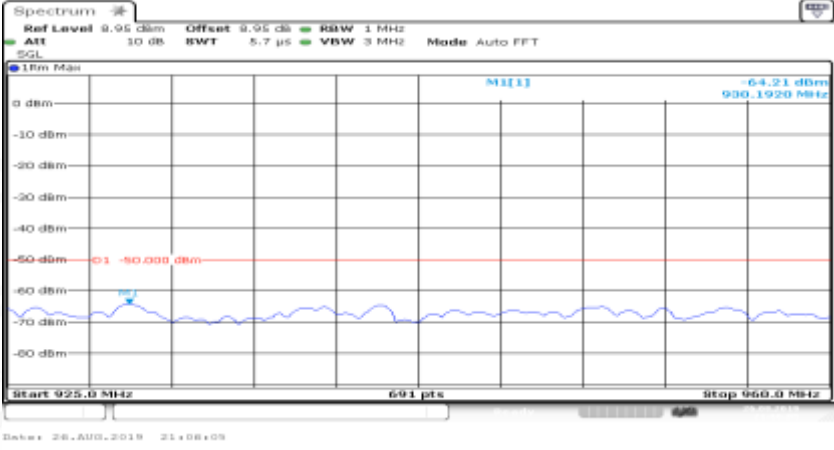
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
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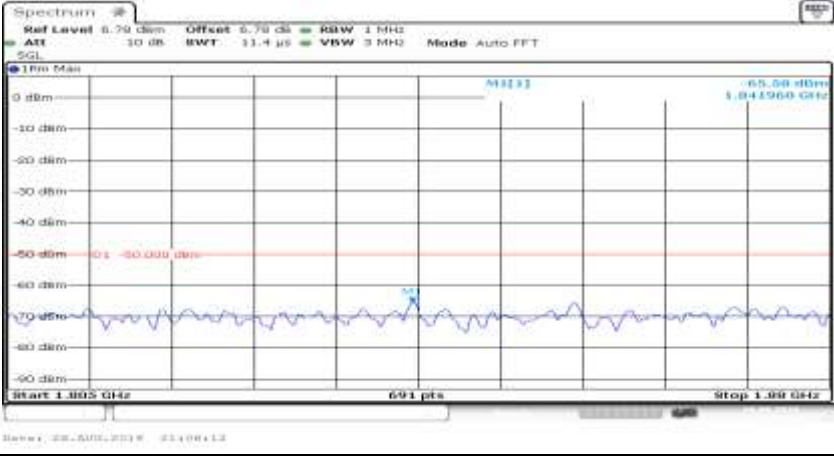
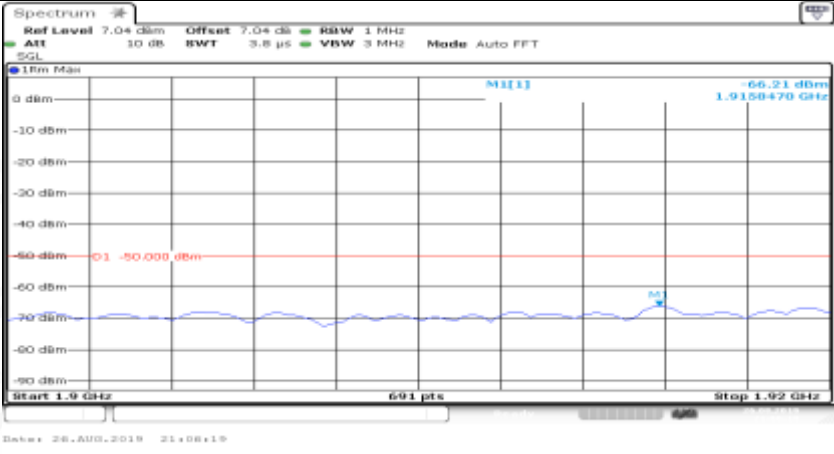
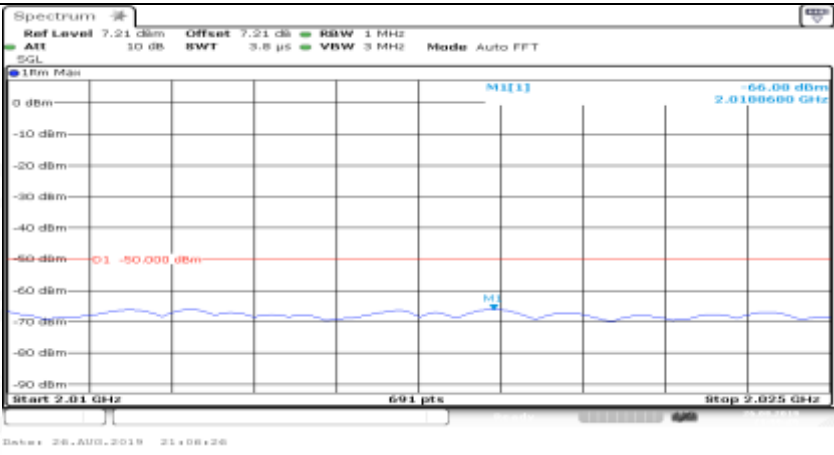
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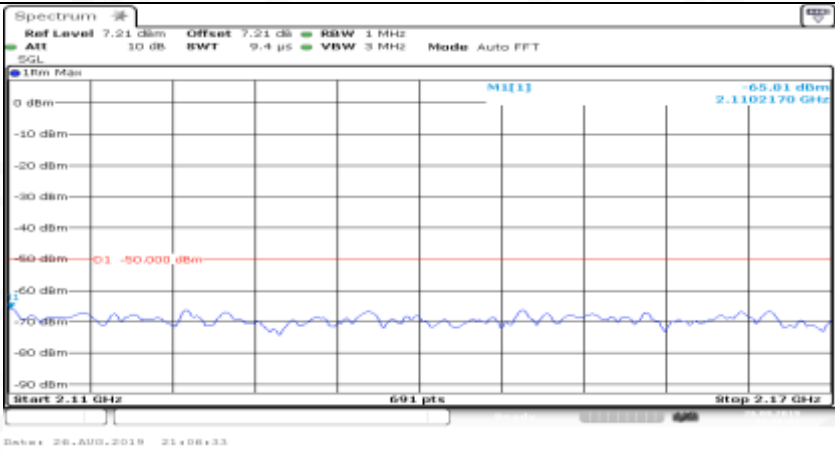
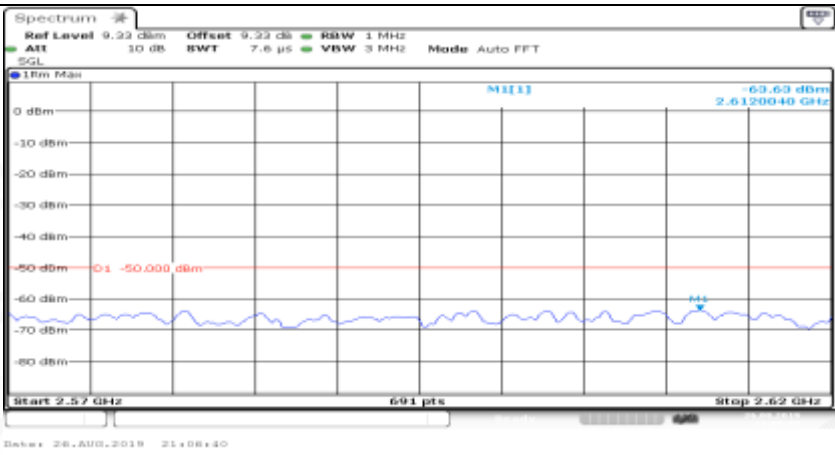
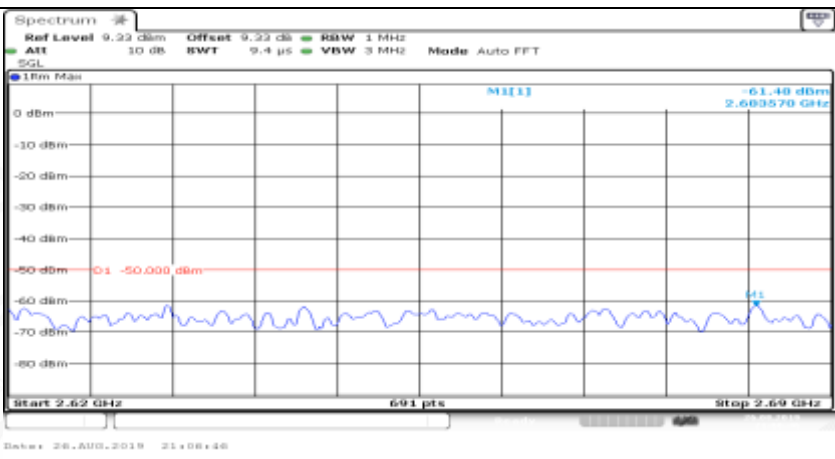
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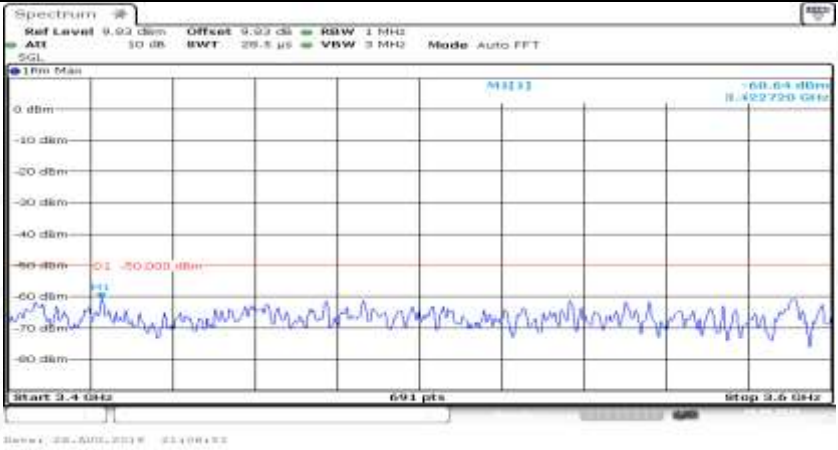
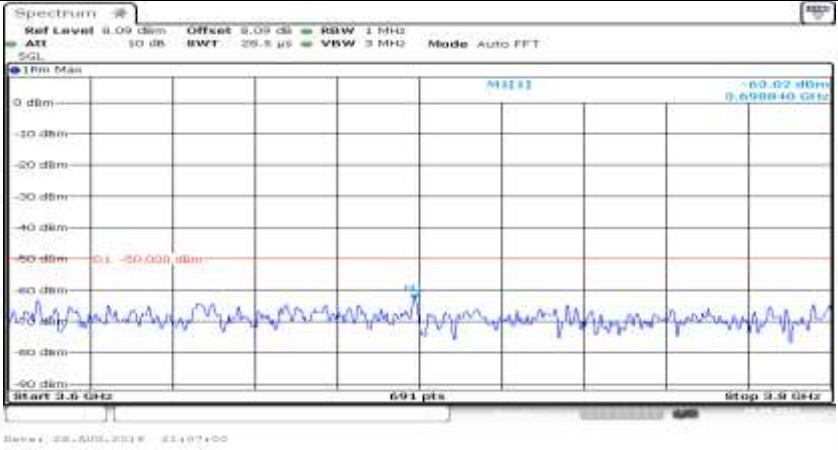
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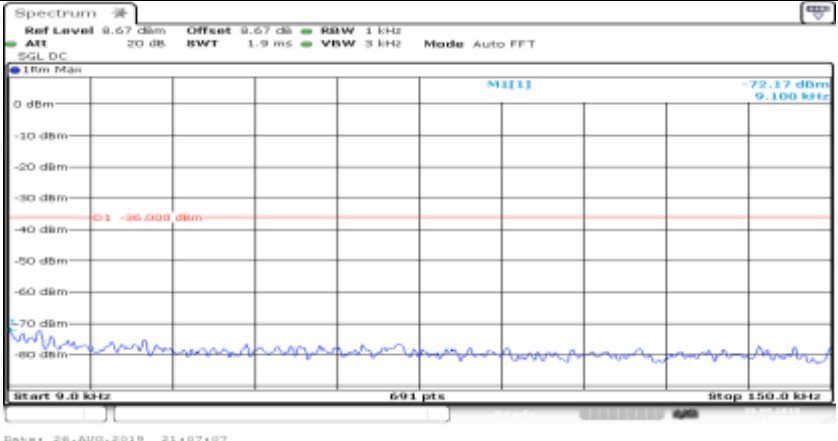
General	 <p>Spectrum</p> <p>Ref Level 19.72 dBm Offset 8.72 dB BW 100 kHz</p> <p>ATT 20 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>10 dBm</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 80.0 MHz</p> <p>691 pts</p> <p>Stop 1.0 GHz</p> <p>842.10 MHz</p> <p>-60.05 dBm</p> <p>842.10 MHz</p> <p>26.AUG.2019 21:05:31</p>
General	 <p>Spectrum</p> <p>Ref Level 17.89 dBm Offset 7.89 dB BW 1 MHz</p> <p>ATT 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep</p> <p>10 dBm</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 1.0 GHz</p> <p>691 pts</p> <p>Stop 1.7067 GHz</p> <p>1.21500 GHz</p> <p>-47.25 dBm</p> <p>1.21500 GHz</p> <p>26.AUG.2019 21:05:32</p>
General	 <p>Spectrum</p> <p>Ref Level 16.74 dBm Offset 6.74 dB BW 1 MHz</p> <p>ATT 30 dB SWT 3.3 ms VBW 3 MHz Mode Auto Sweep</p> <p>10 dBm</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 1.7147 GHz</p> <p>691 pts</p> <p>Stop 5.0 GHz</p> <p>4.00600 GHz</p> <p>-46.92 dBm</p> <p>4.00600 GHz</p> <p>26.AUG.2019 21:05:33</p>

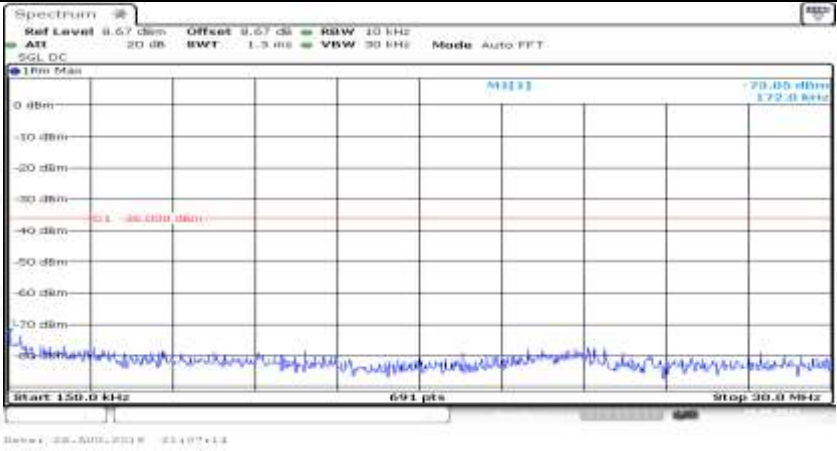
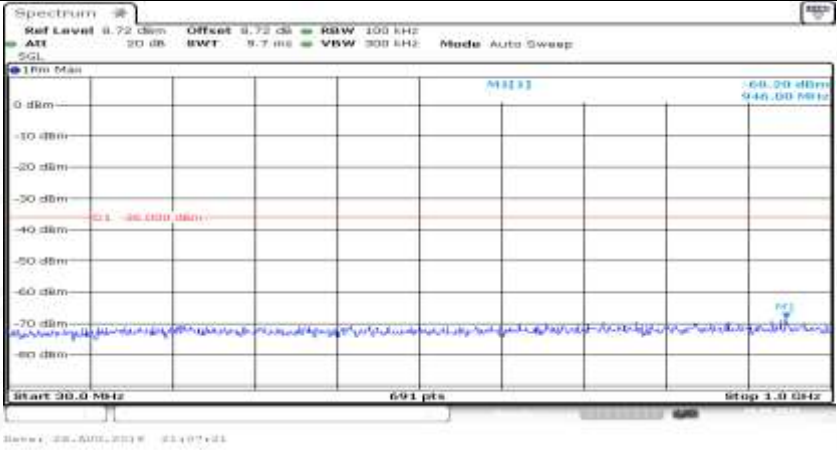
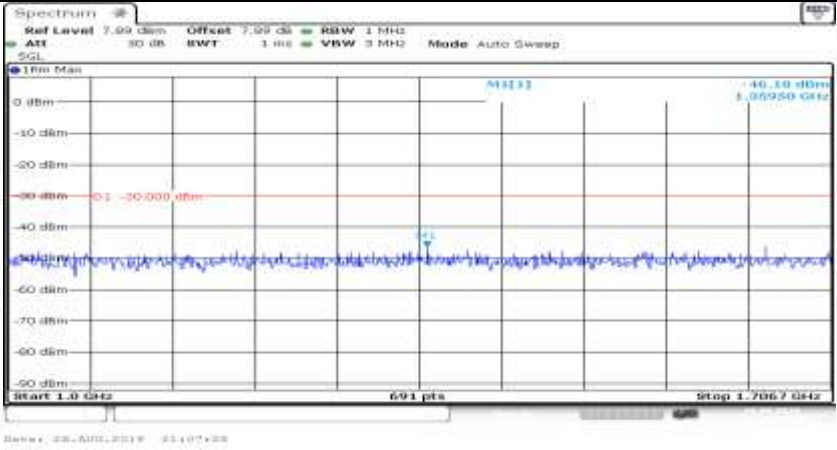
General	
Co-existence	
Co-existence	

Co-existence	 <p>Spectrum</p> <p>Ref Level 8.70 dBm Offset 8.70 dB BW 1 MHz</p> <p>Att 30 dB SWT 31.4 μs VBW 3 MHz Mode Auto FFT</p> <p>SGL</p> <p>18m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>-50.000 dBm</p> <p>-65.50 dBm</p> <p>1.841960 GHz</p> <p>Start 1.800 GHz 691 pts Stop 1.900 GHz</p> <p>Date: 28.AUG.2019 21:08:12</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz</p> <p>Att 30 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>SGL</p> <p>18m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>-50.000 dBm</p> <p>-66.21 dBm</p> <p>1.9150470 GHz</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 28.AUG.2019 21:08:19</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz</p> <p>Att 30 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>SGL</p> <p>18m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>-50.000 dBm</p> <p>-66.00 dBm</p> <p>2.0100600 GHz</p> <p>Start 2.01 GHz 691 pts Stop 2.025 GHz</p> <p>Date: 28.AUG.2019 21:08:26</p>

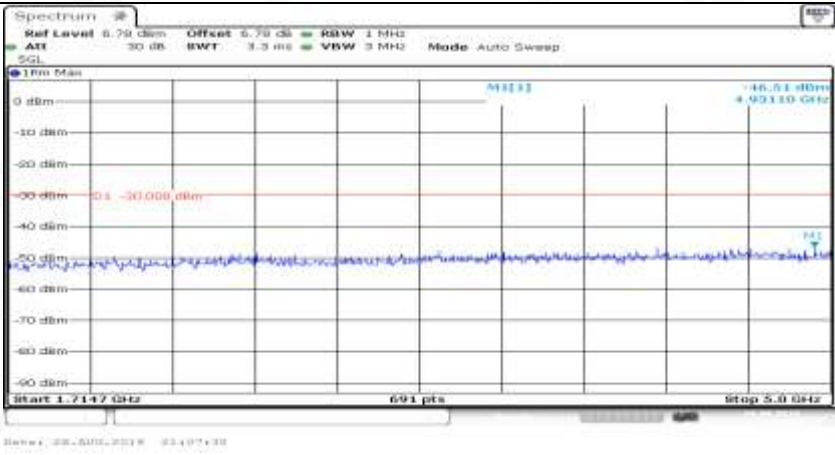
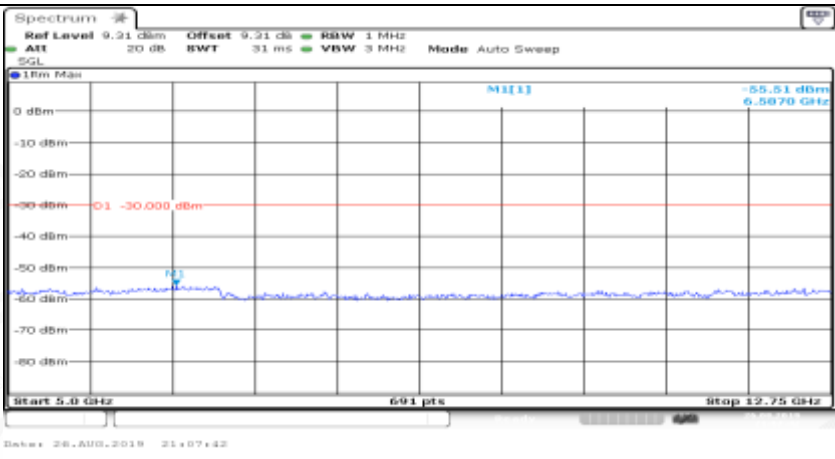
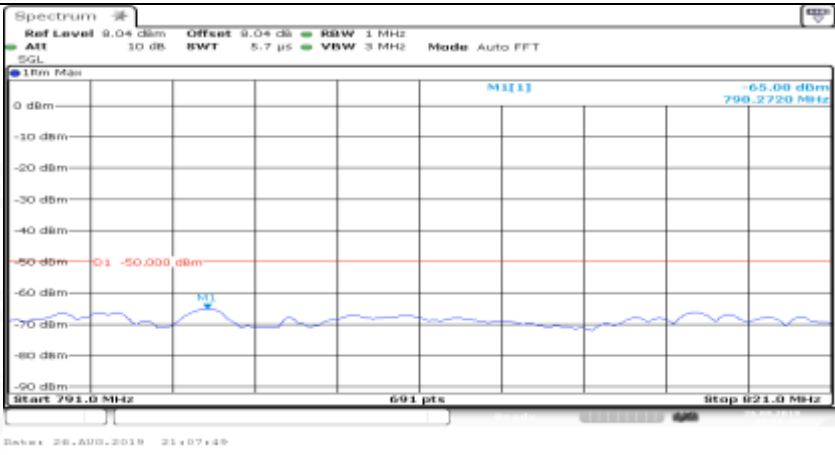
Co-existence	
Co-existence	
Co-existence	

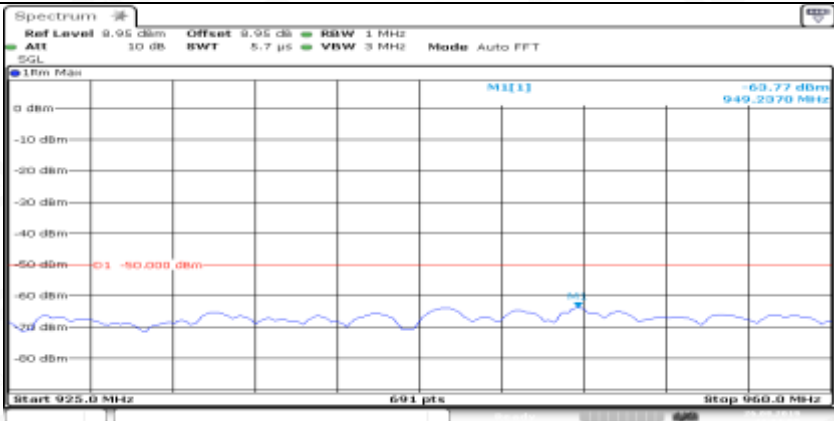

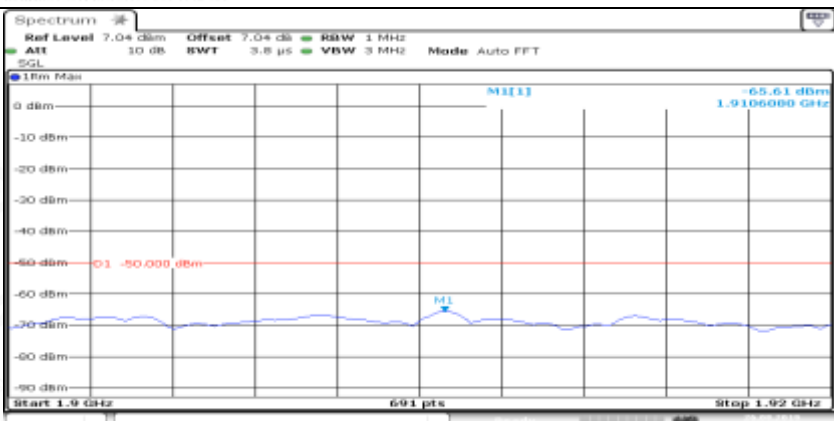
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max	
General	

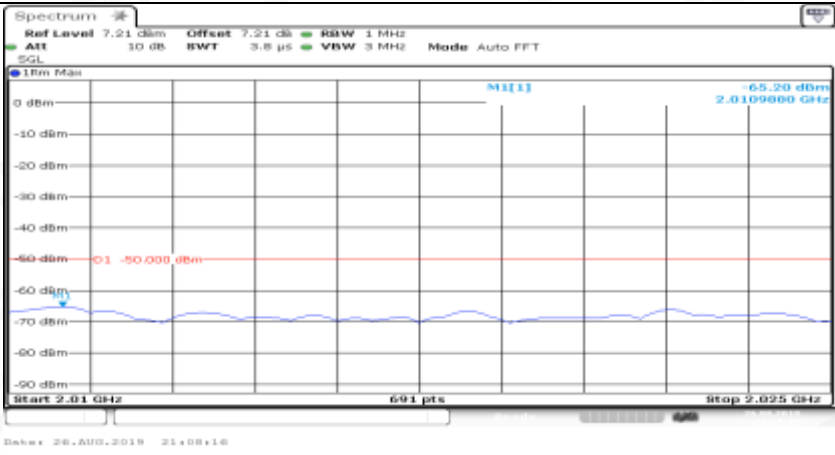
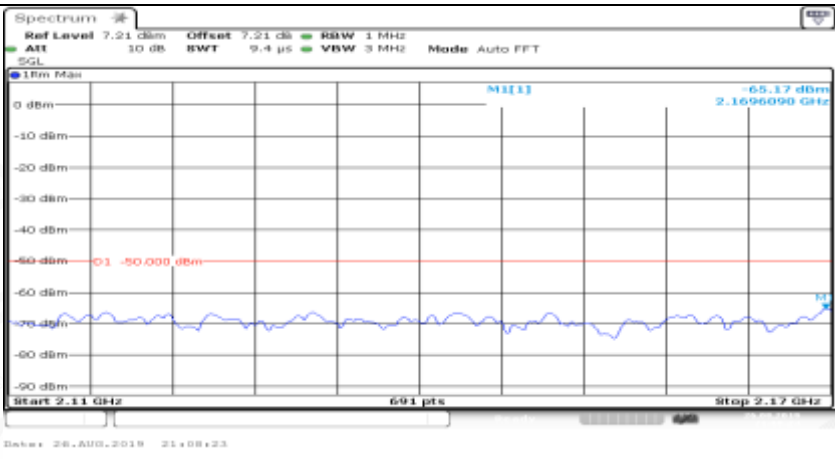
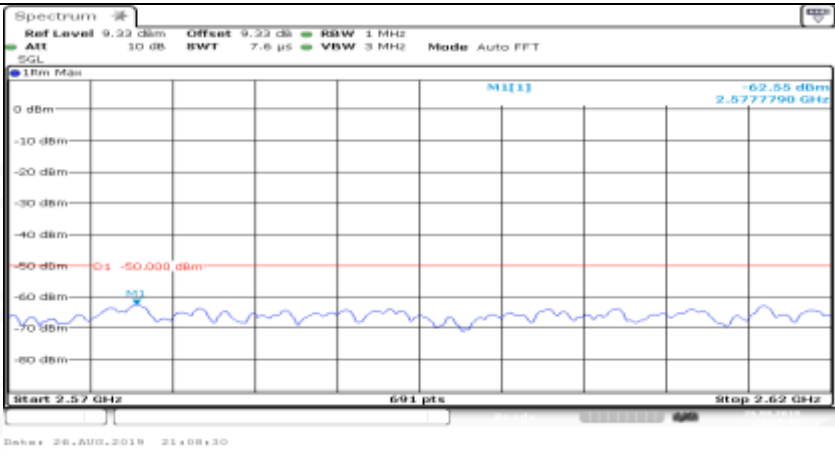
General	
General	
General	

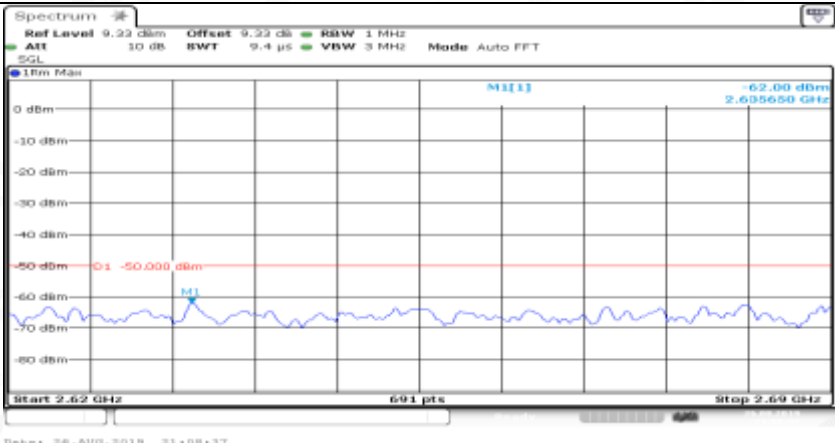
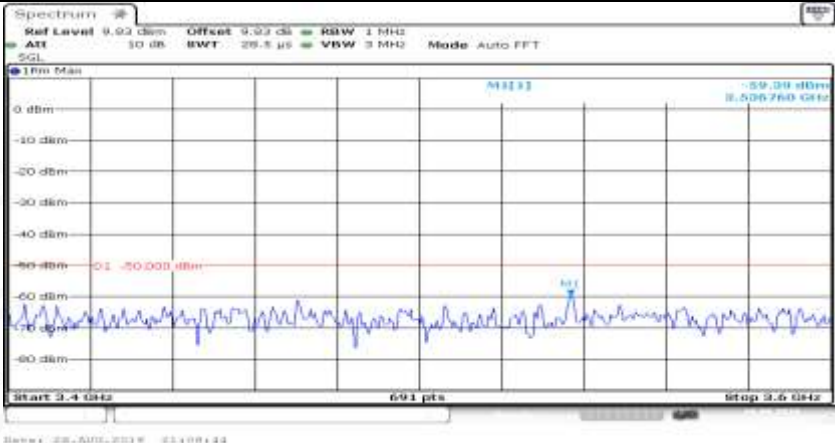
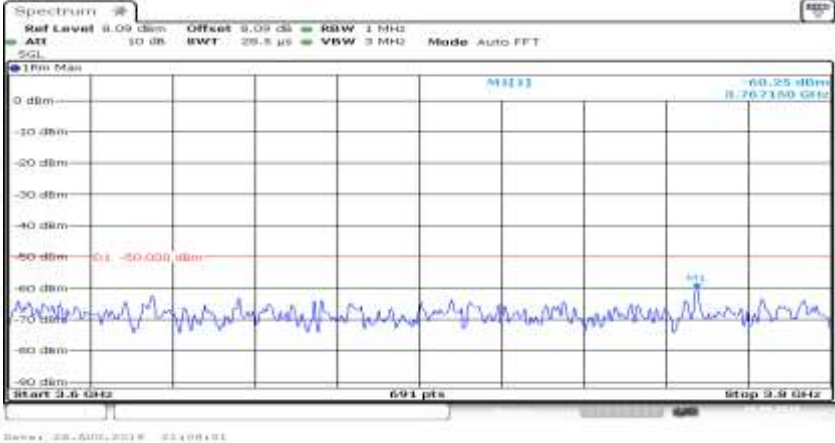


General	
General	
Co-existence	

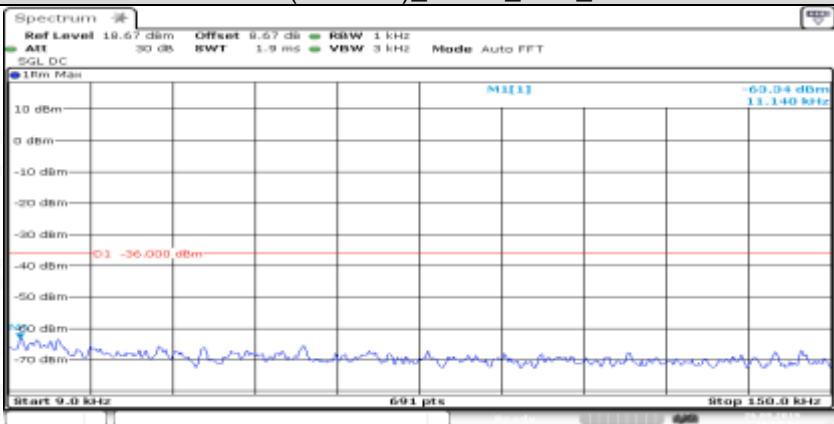
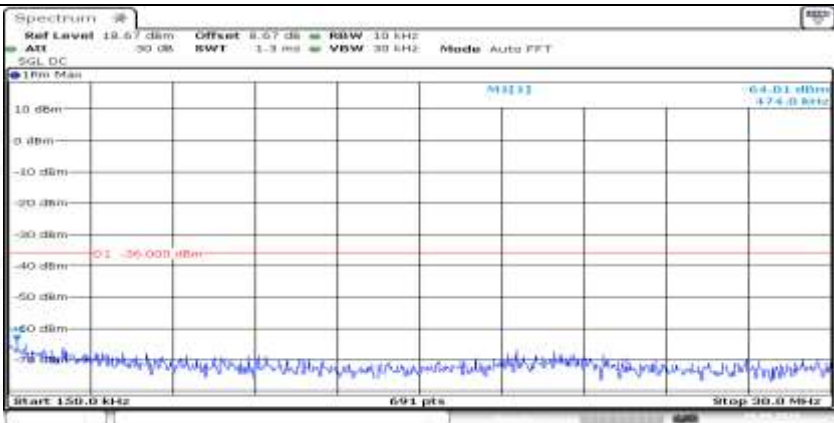
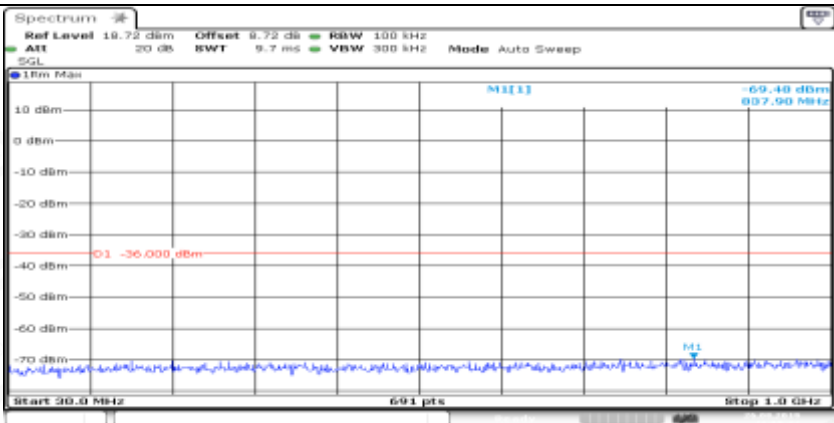
Co-existence	 <p>Start 925.0 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 26.AUG.2019 21:07:56</p>
Co-existence	 <p>Start 1.805 GHz 691 pts Stop 1.85 GHz</p> <p>Date: 26.AUG.2019 21:08:03</p>
Co-existence	 <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 26.AUG.2019 21:08:10</p>



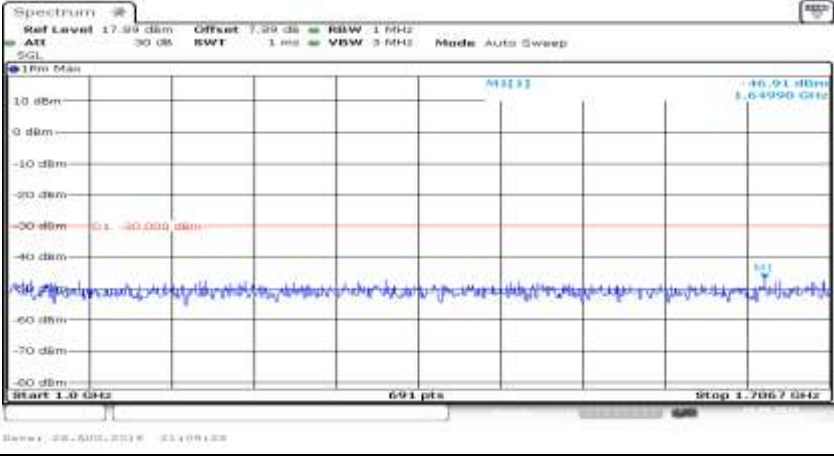
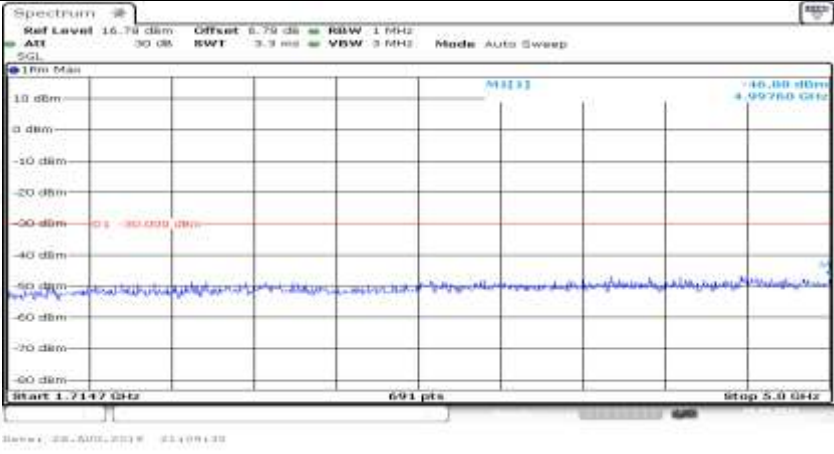
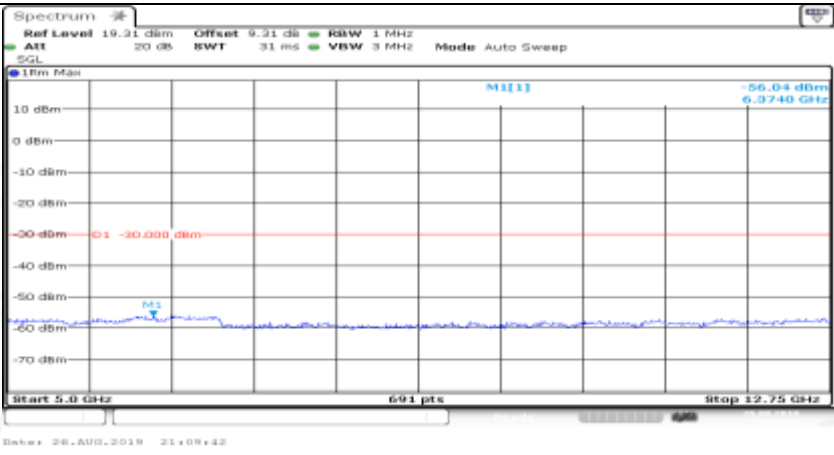
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Co-existence	
Co-existence	

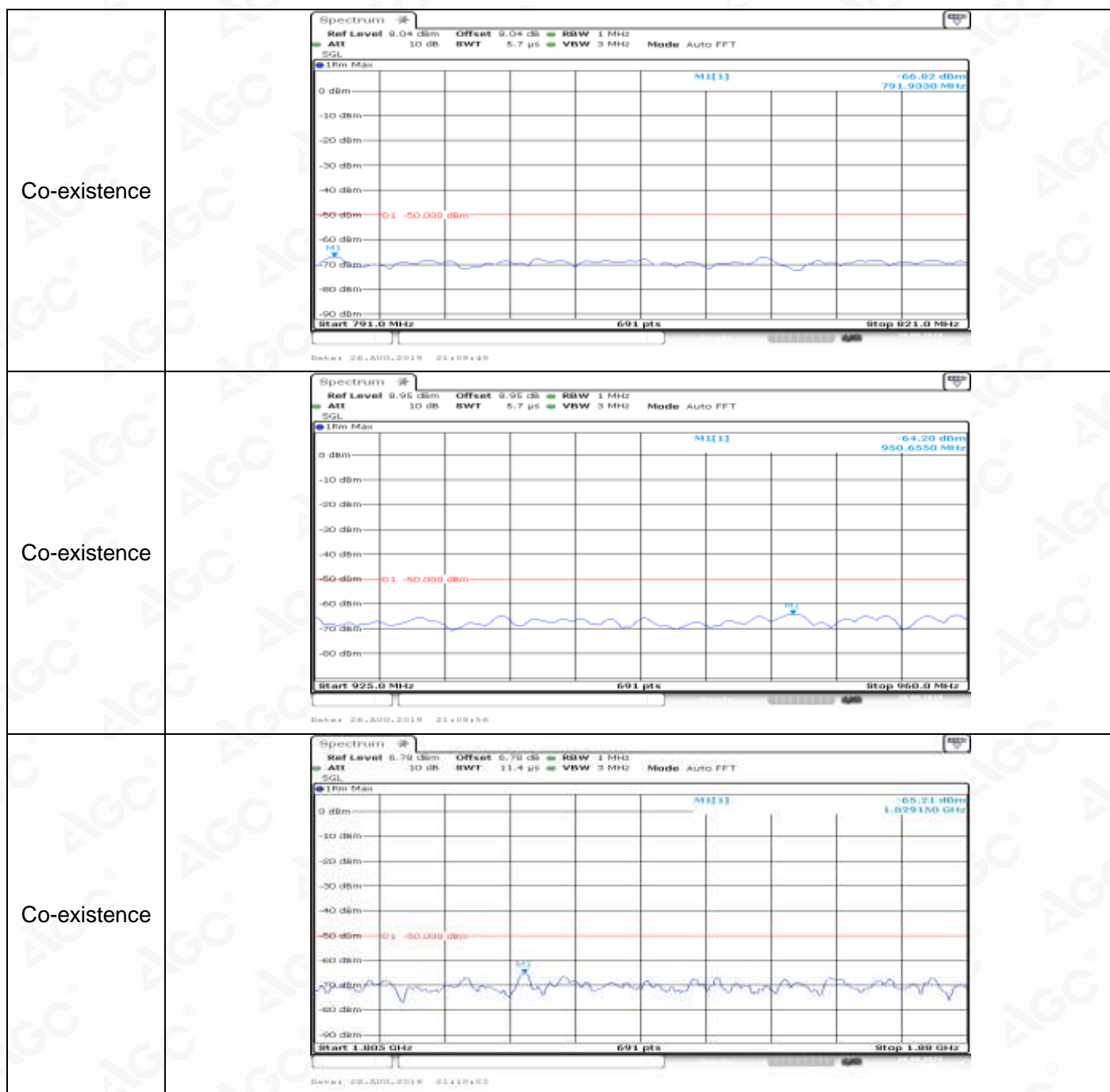
Co-existence	
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Co-existence	
Additional	NA

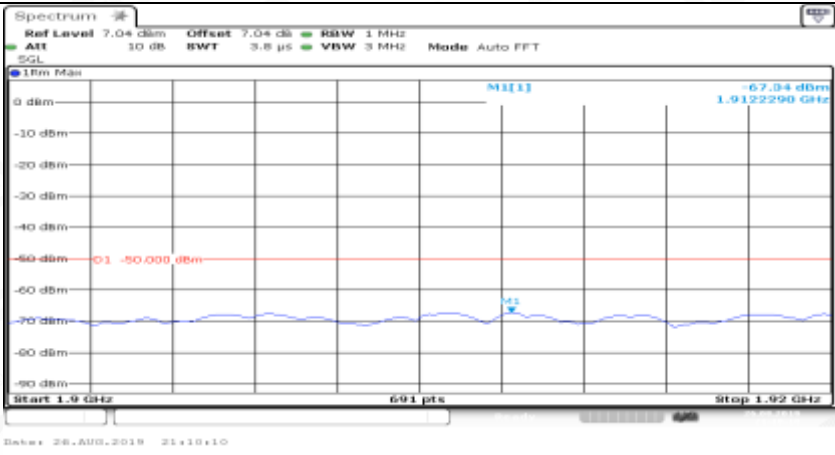
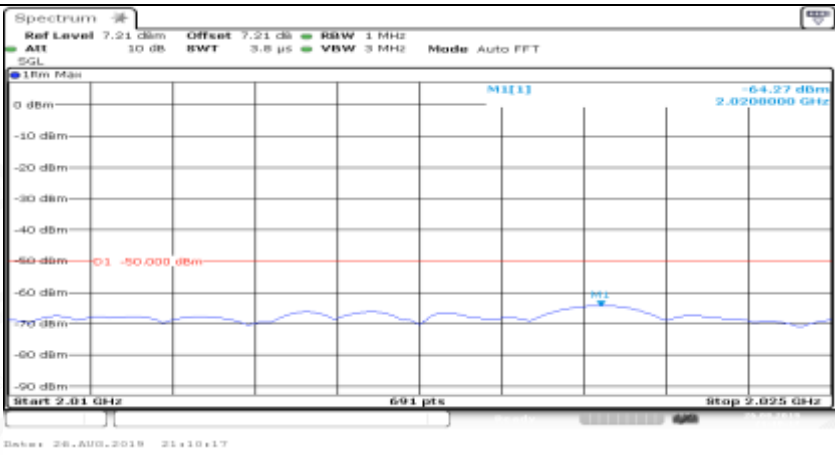
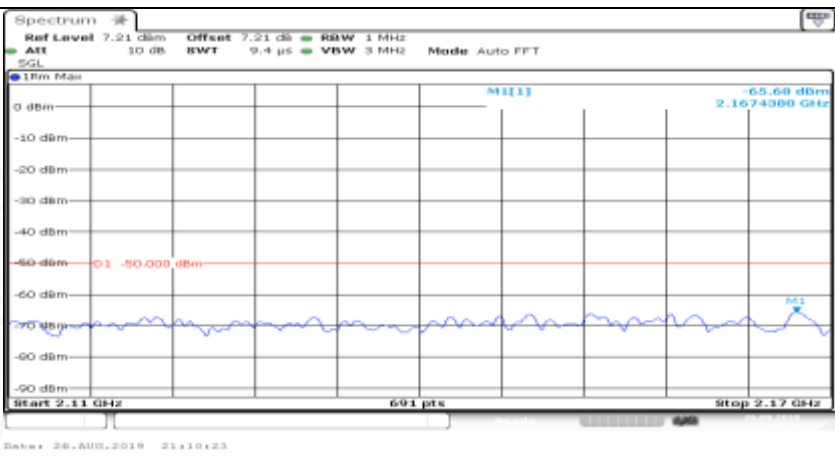
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0

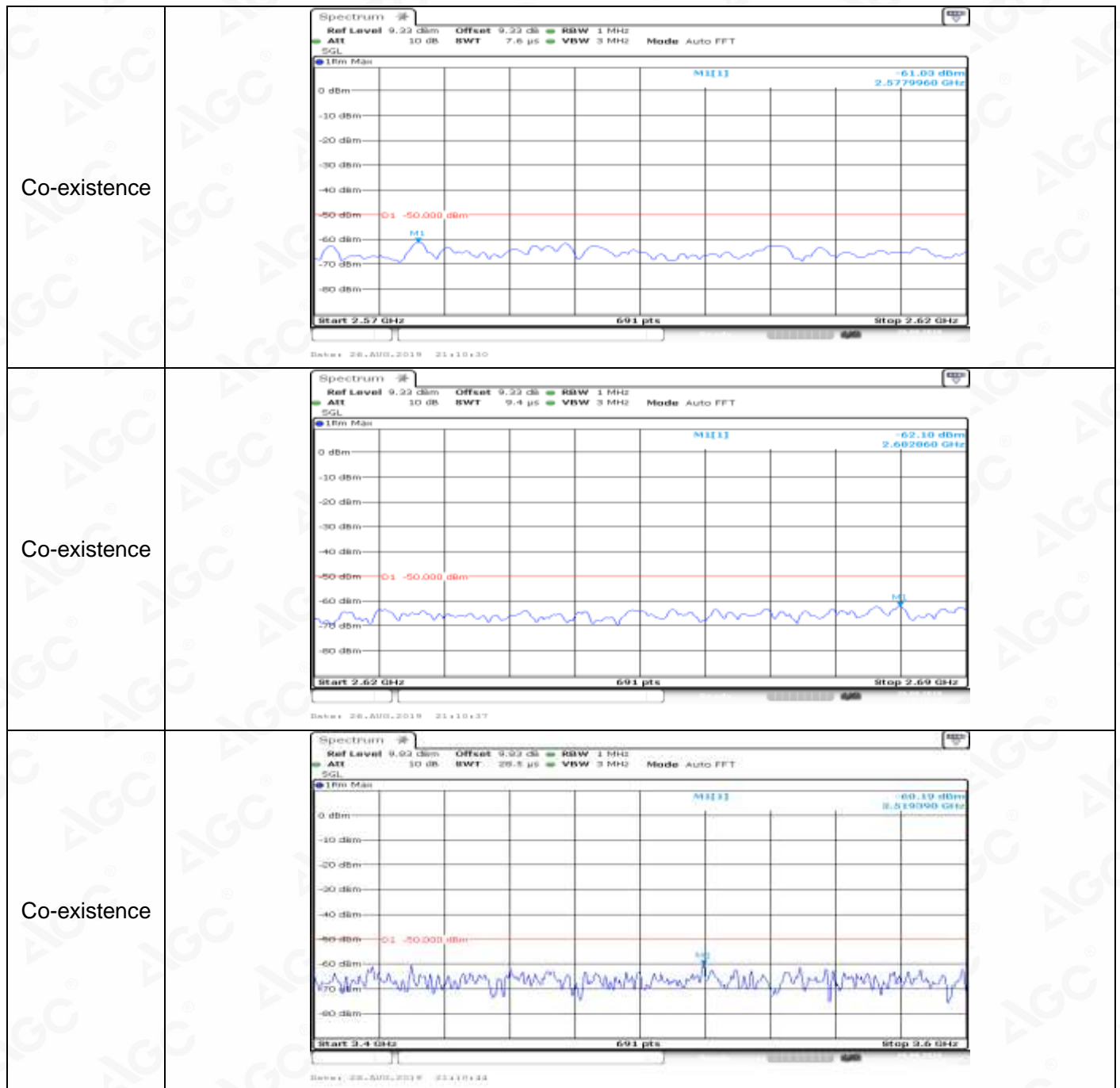
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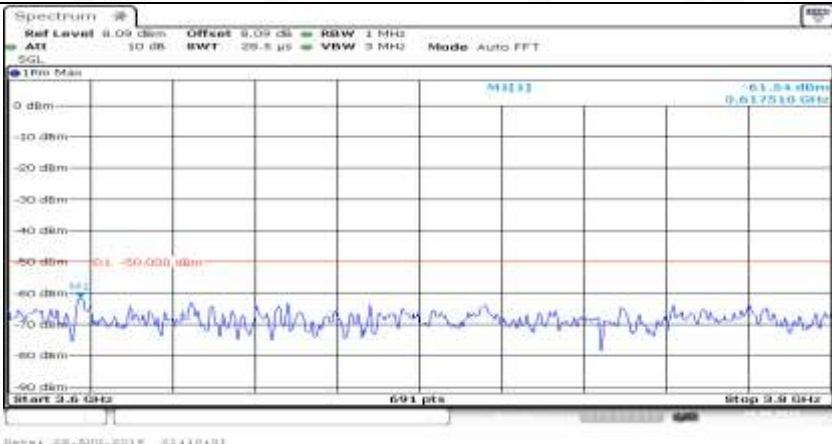


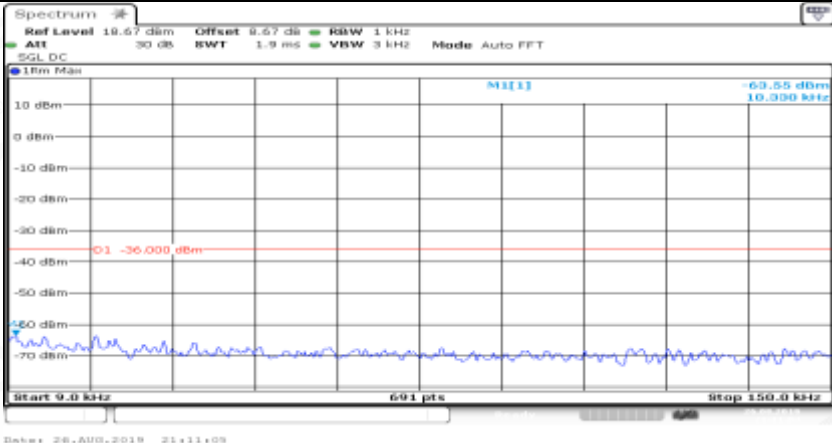
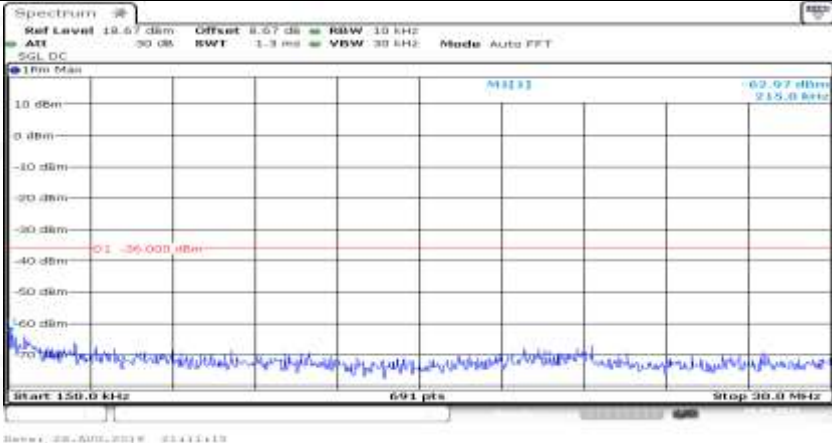
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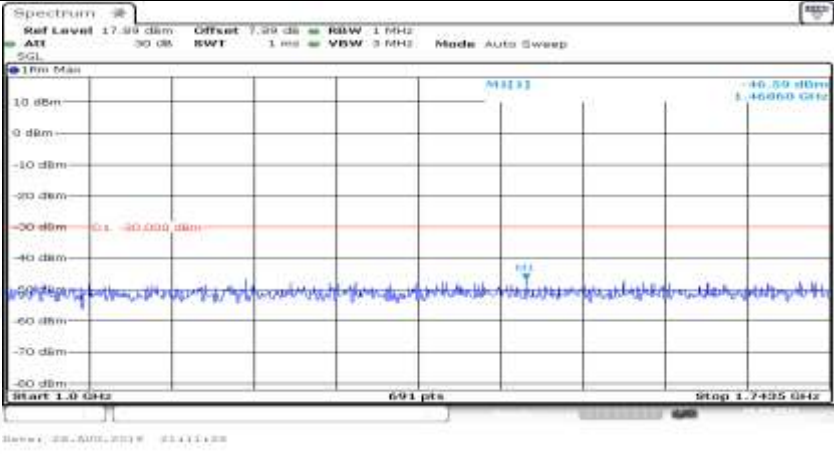
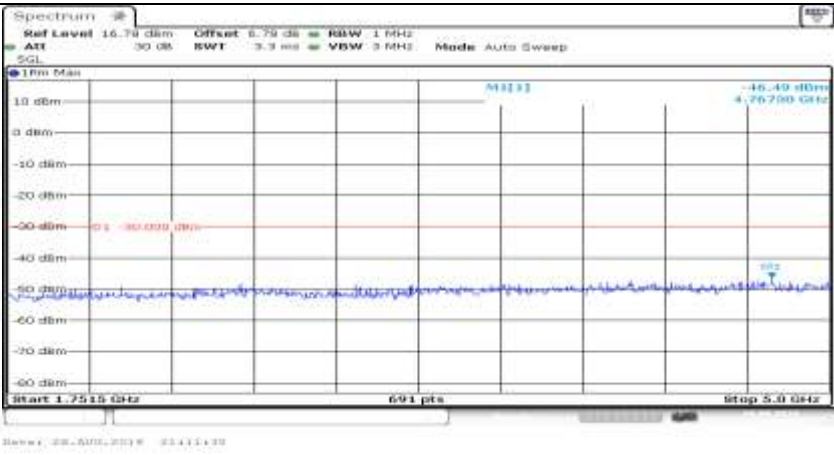


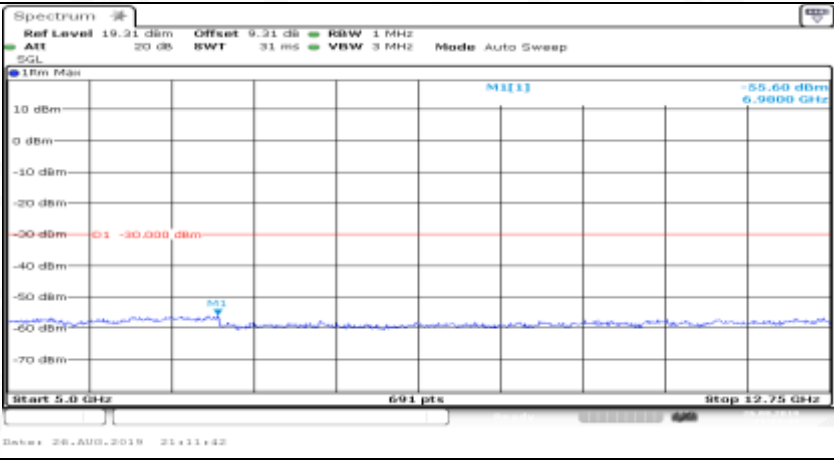
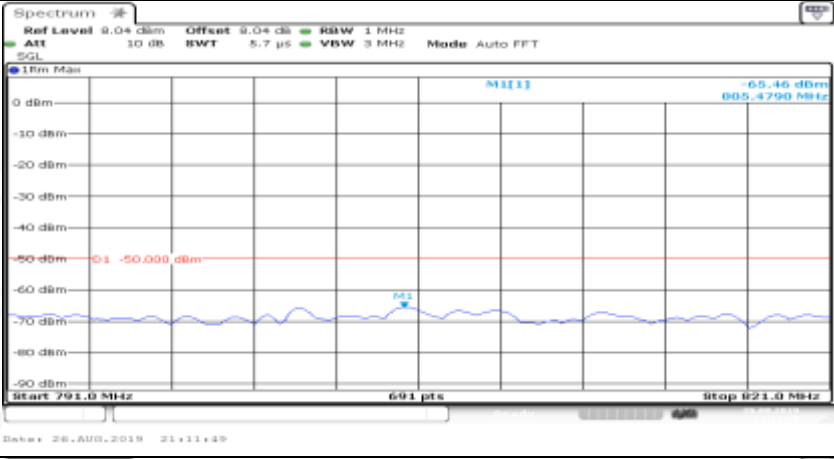
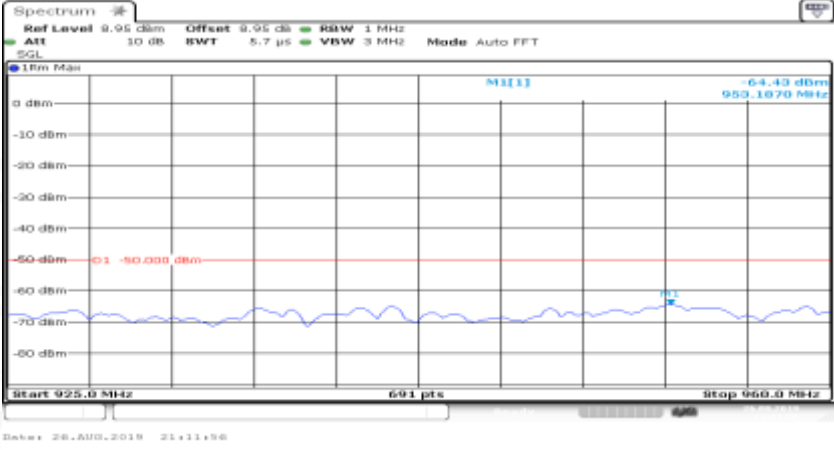
Co-existence	 <p>Spectrum plot showing Co-existence. The plot displays a signal level (blue line) fluctuating around -70 dBm, with a red horizontal line indicating a limit at -50.000 dBm. The frequency range is from 1.9 GHz to 1.92 GHz. The peak level is -67.34 dBm at 1.9122290 GHz.</p>
Co-existence	 <p>Spectrum plot showing Co-existence. The plot displays a signal level (blue line) fluctuating around -70 dBm, with a red horizontal line indicating a limit at -50.000 dBm. The frequency range is from 2.0 GHz to 2.025 GHz. The peak level is -64.27 dBm at 2.0200000 GHz.</p>
Co-existence	 <p>Spectrum plot showing Co-existence. The plot displays a signal level (blue line) fluctuating around -70 dBm, with a red horizontal line indicating a limit at -50.000 dBm. The frequency range is from 2.1 GHz to 2.17 GHz. The peak level is -65.60 dBm at 2.1674380 GHz.</p>

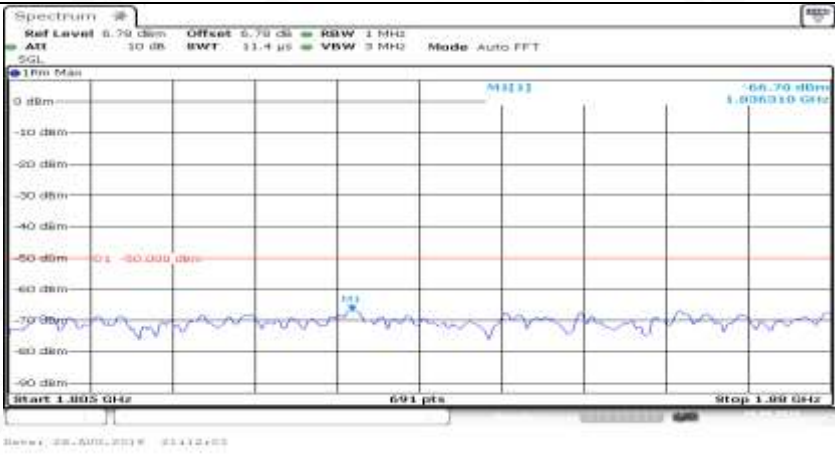
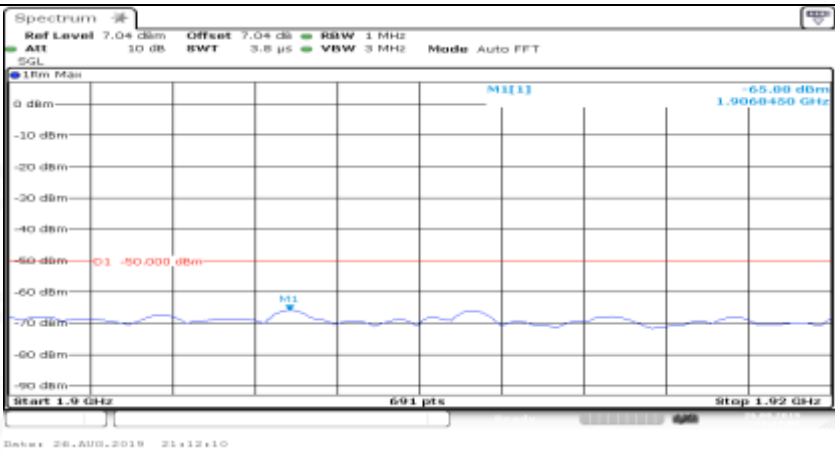
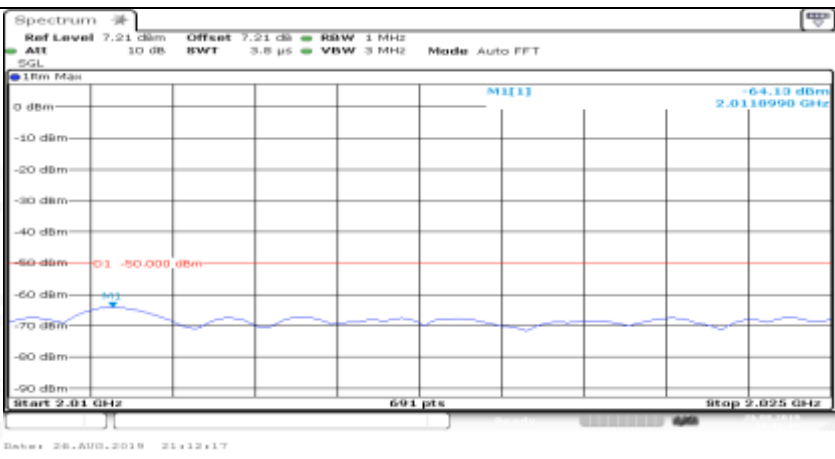


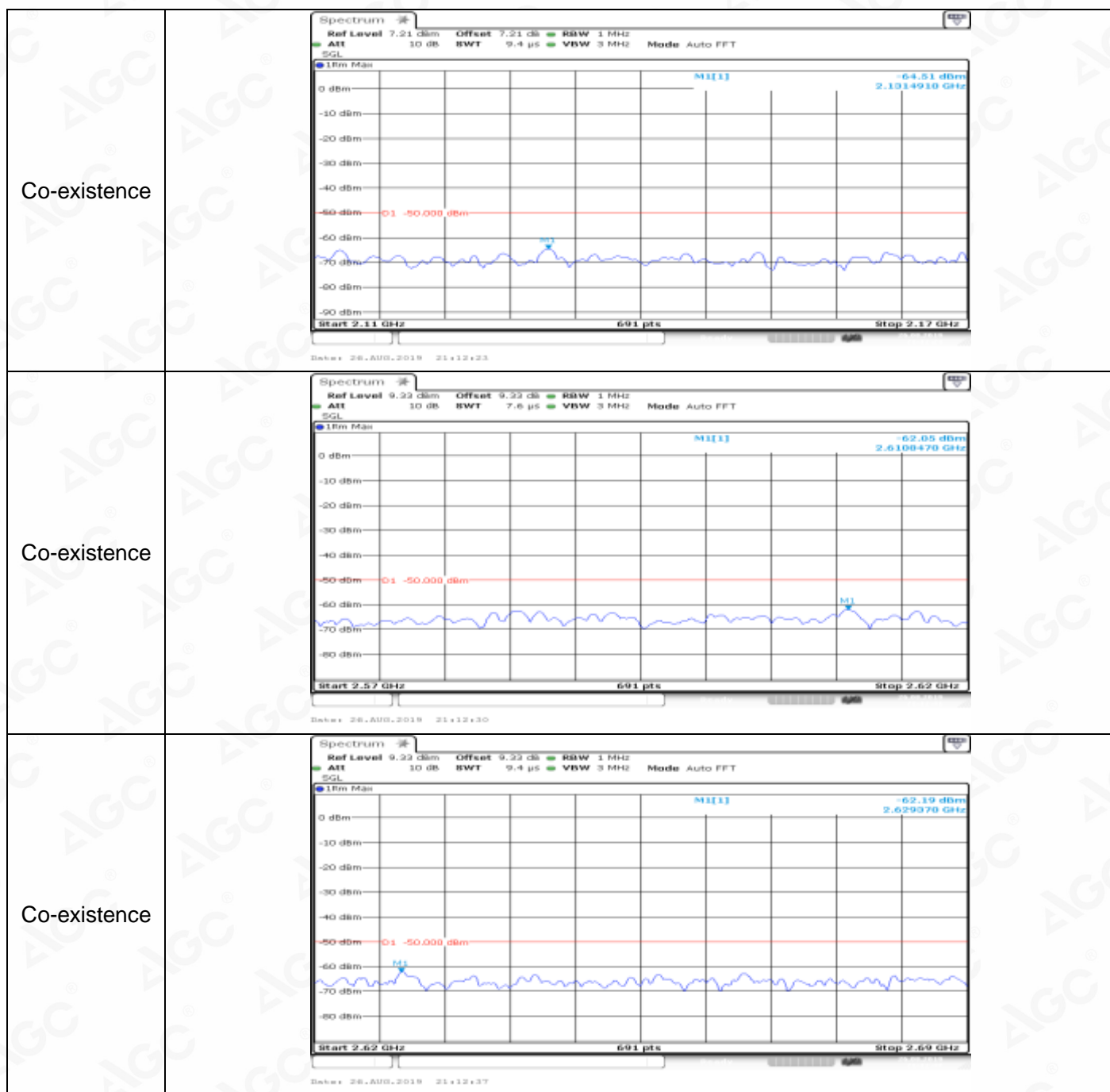
Co-existence	
Additional	NA

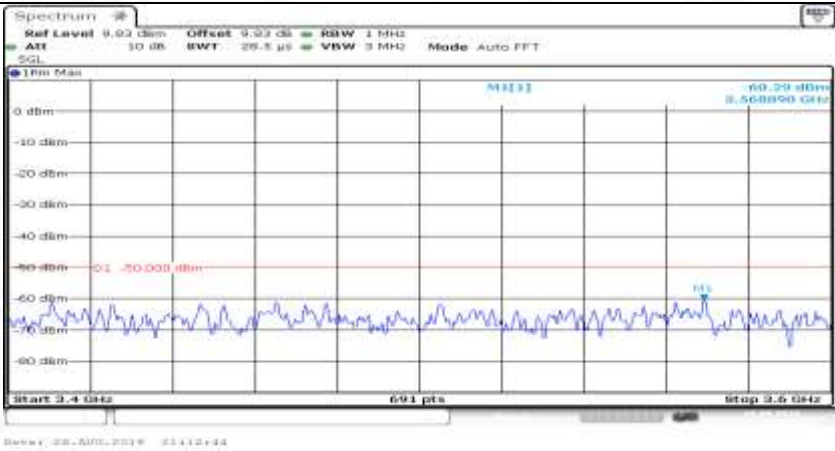
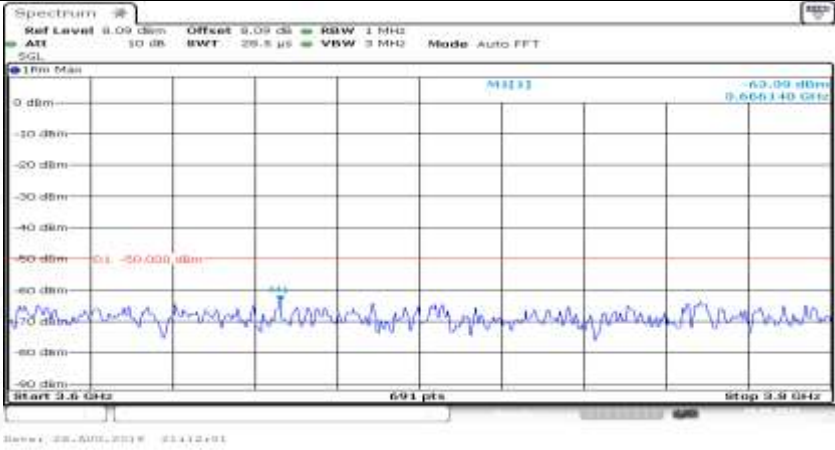
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General	

General	
General	
General	

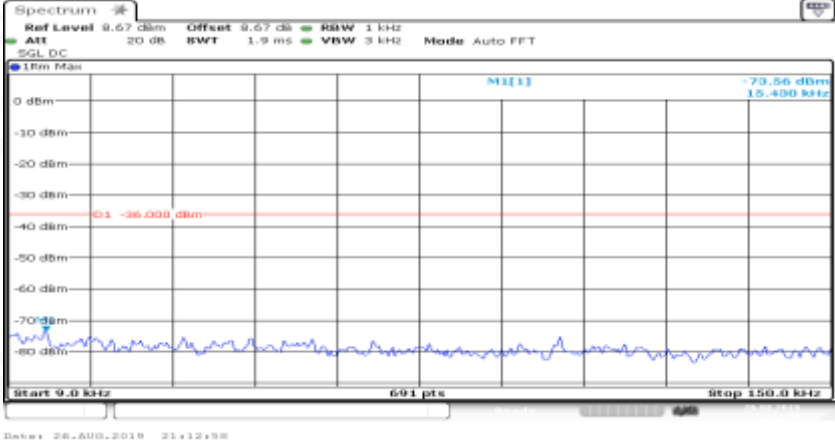
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Co-existence	
Co-existence	

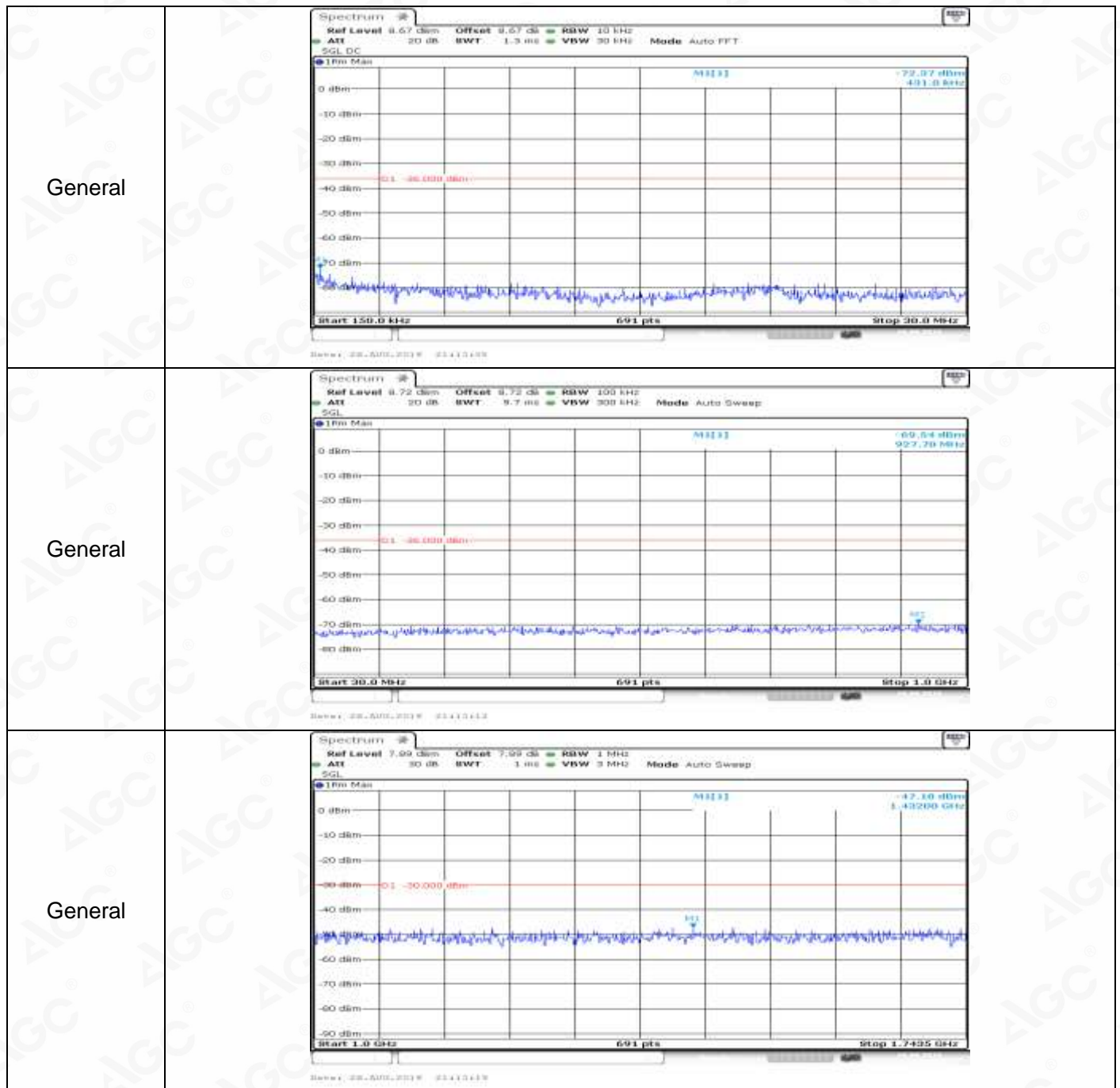
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Co-existence	
Co-existence	

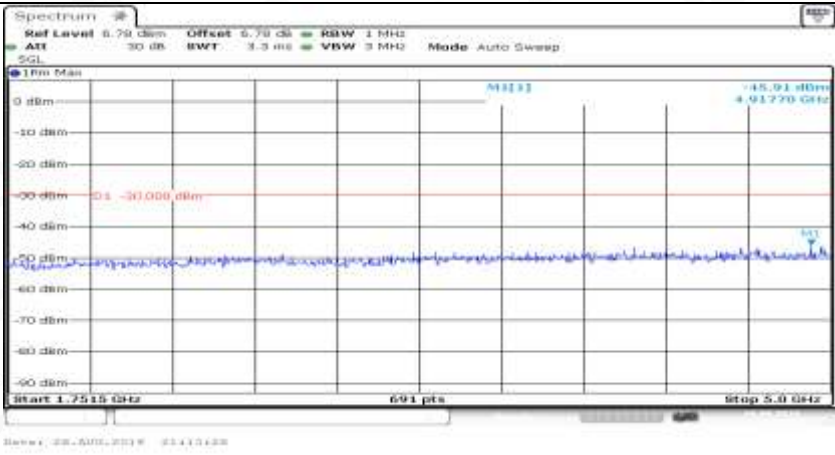
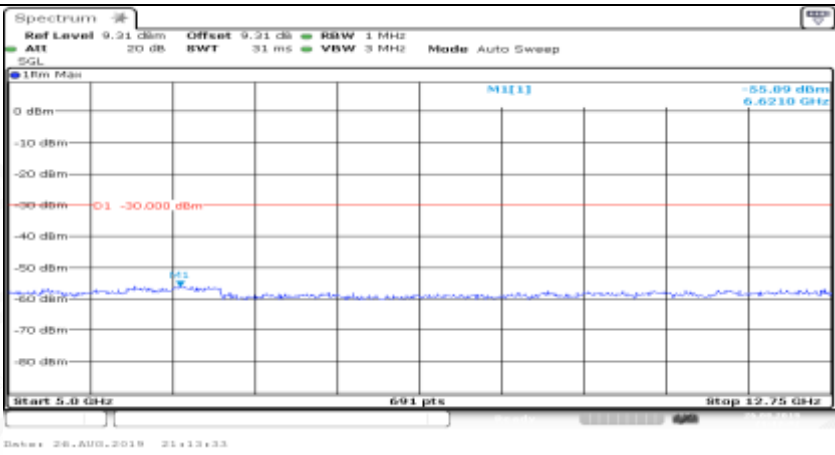
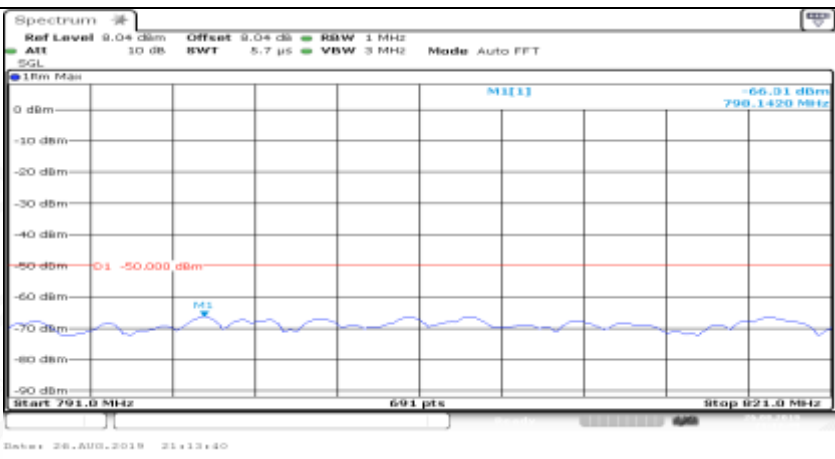


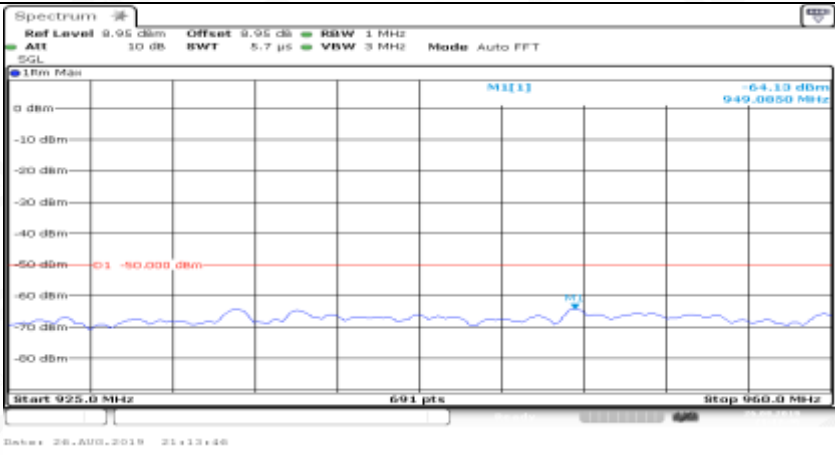

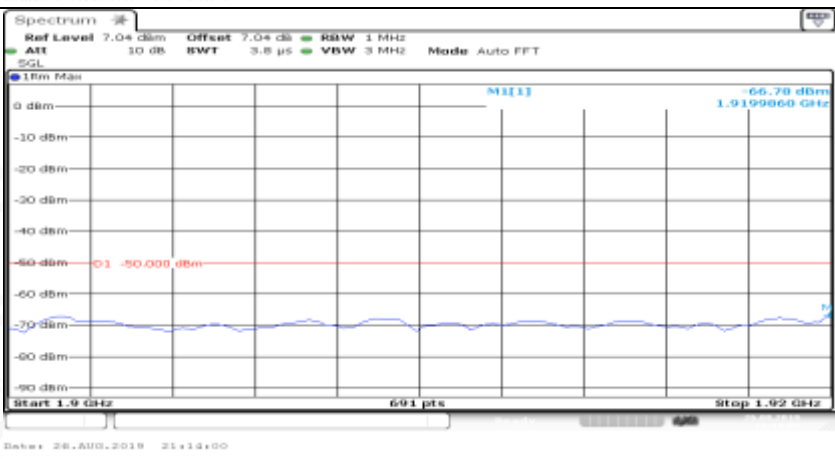
Co-existence	
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Additional	NA

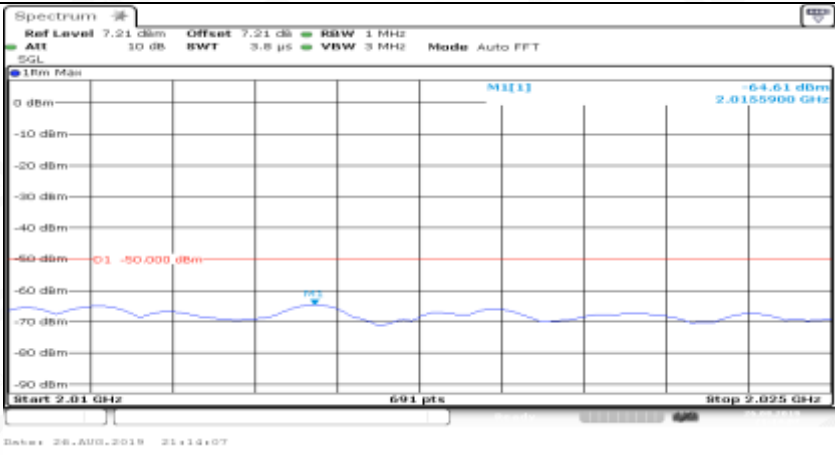

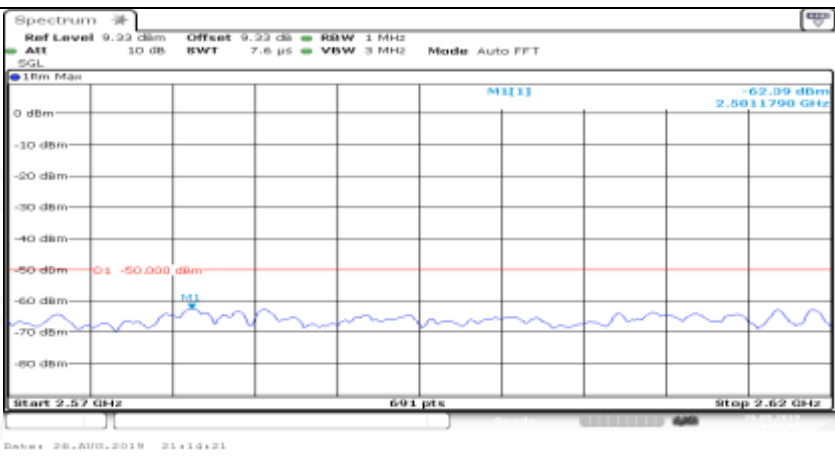
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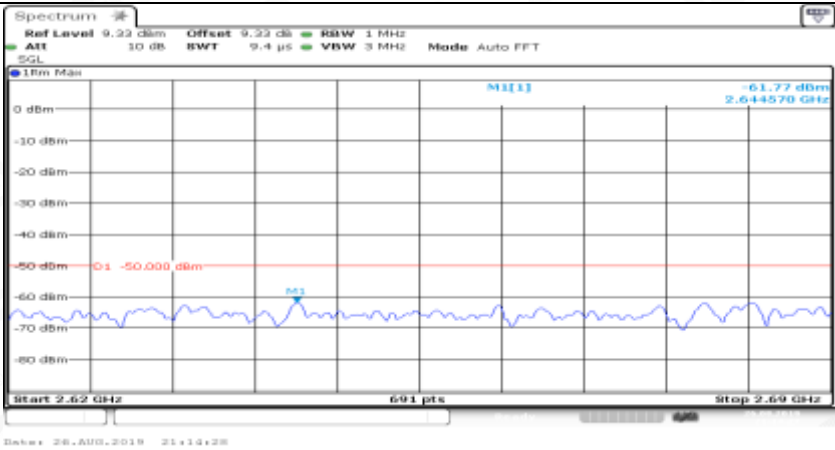
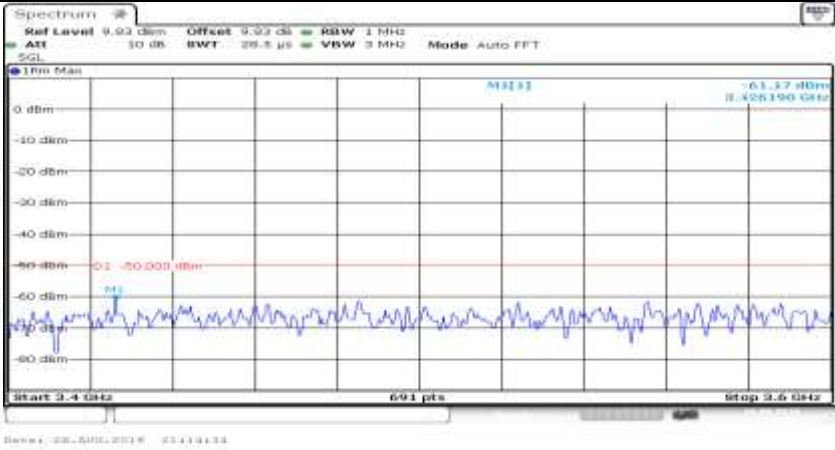
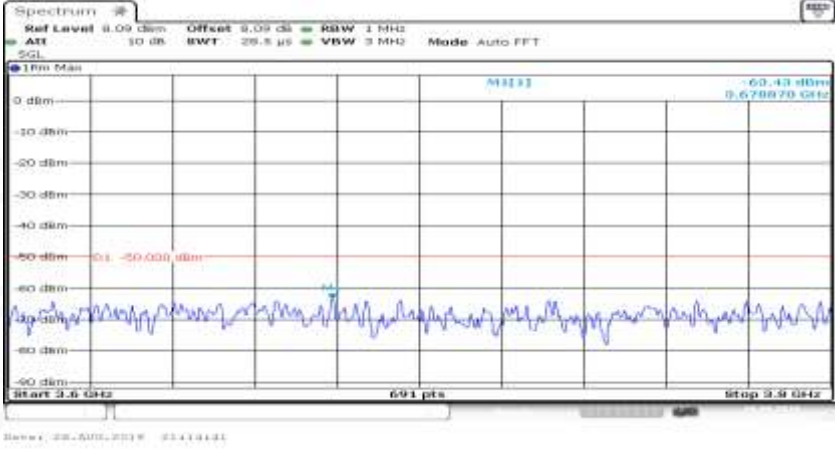
General	
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General	
General	
Co-existence	

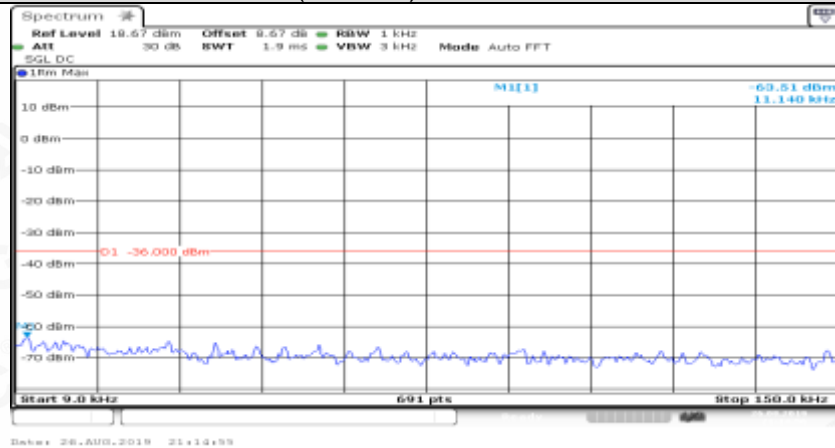
Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

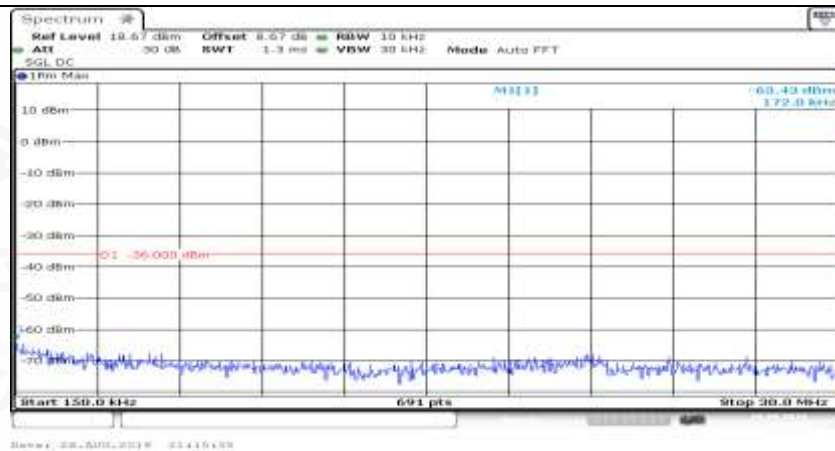
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Additional	NA

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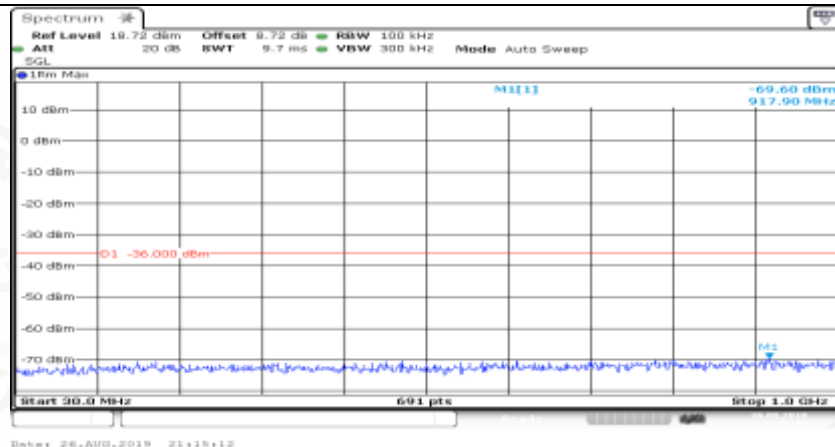
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General



General



Attestation of Global Compliance

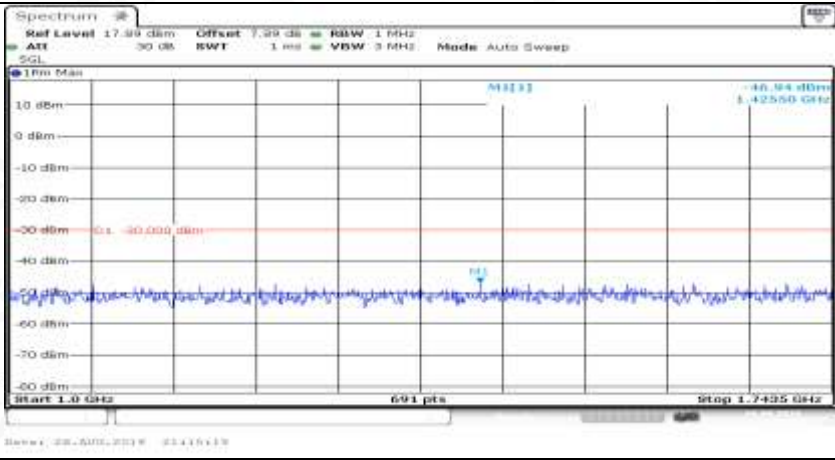
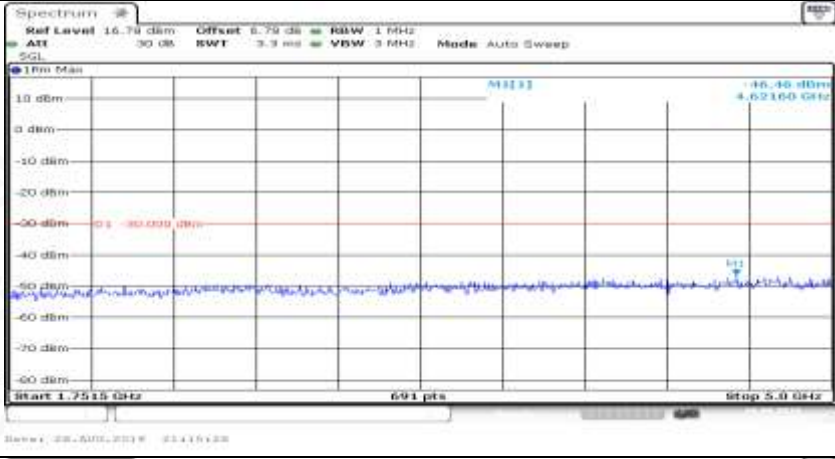
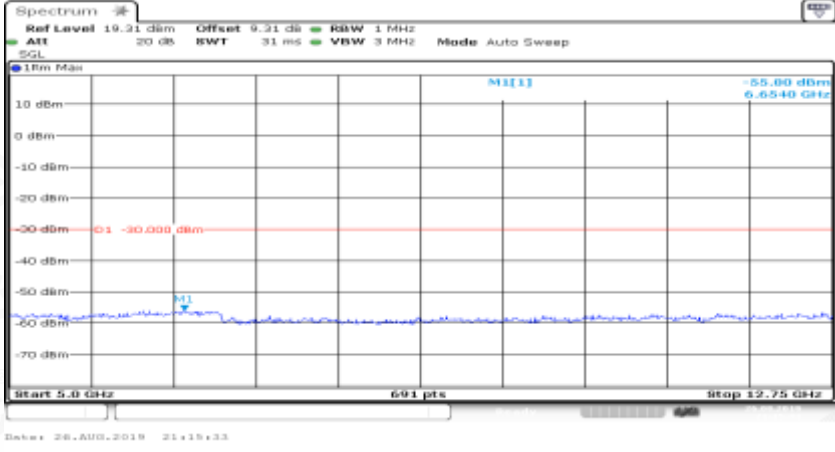
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

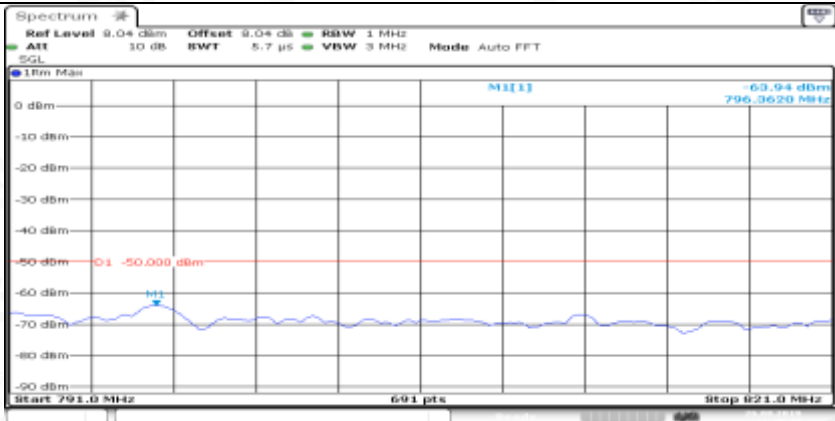
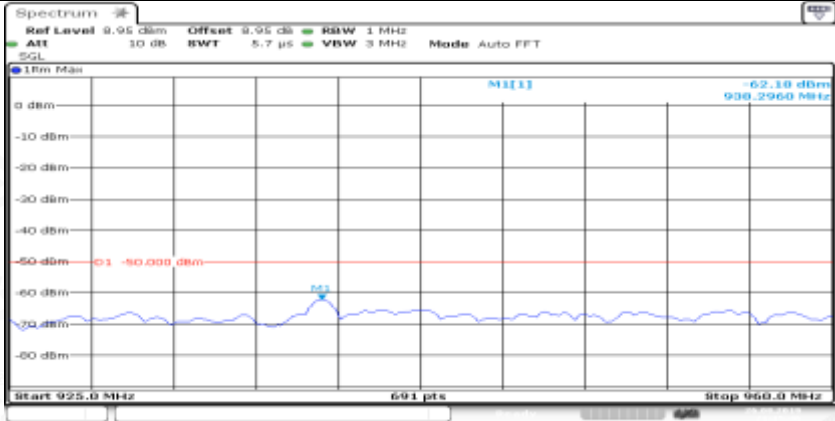
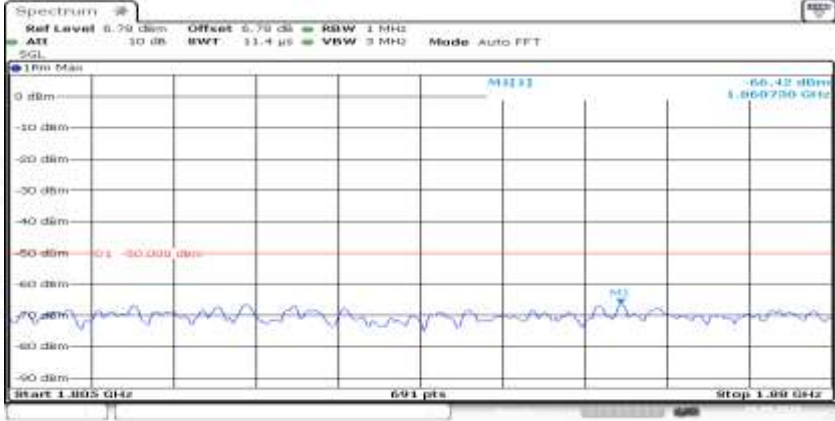
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

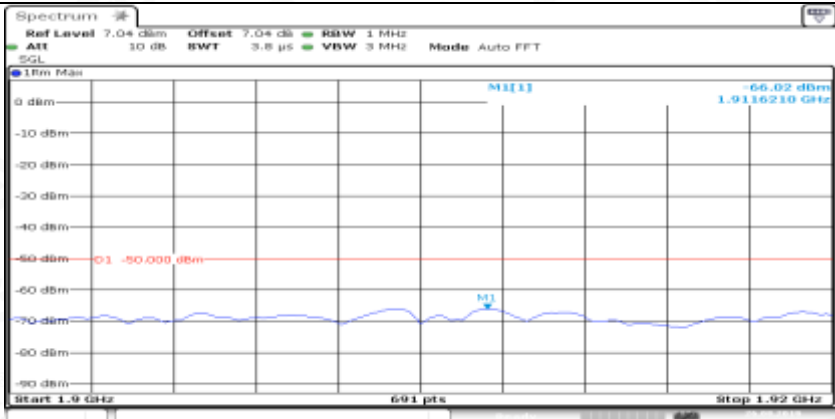
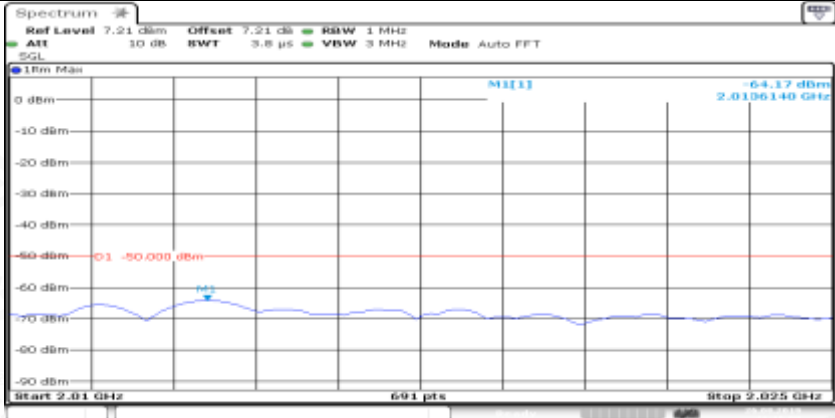
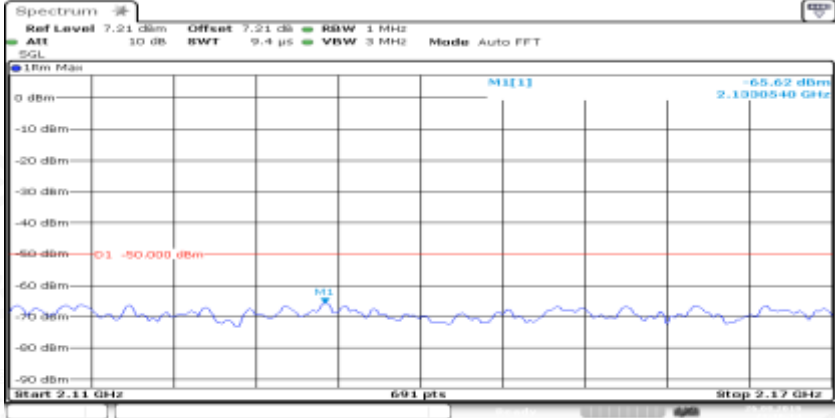
Tel: +86-755 2523 4088

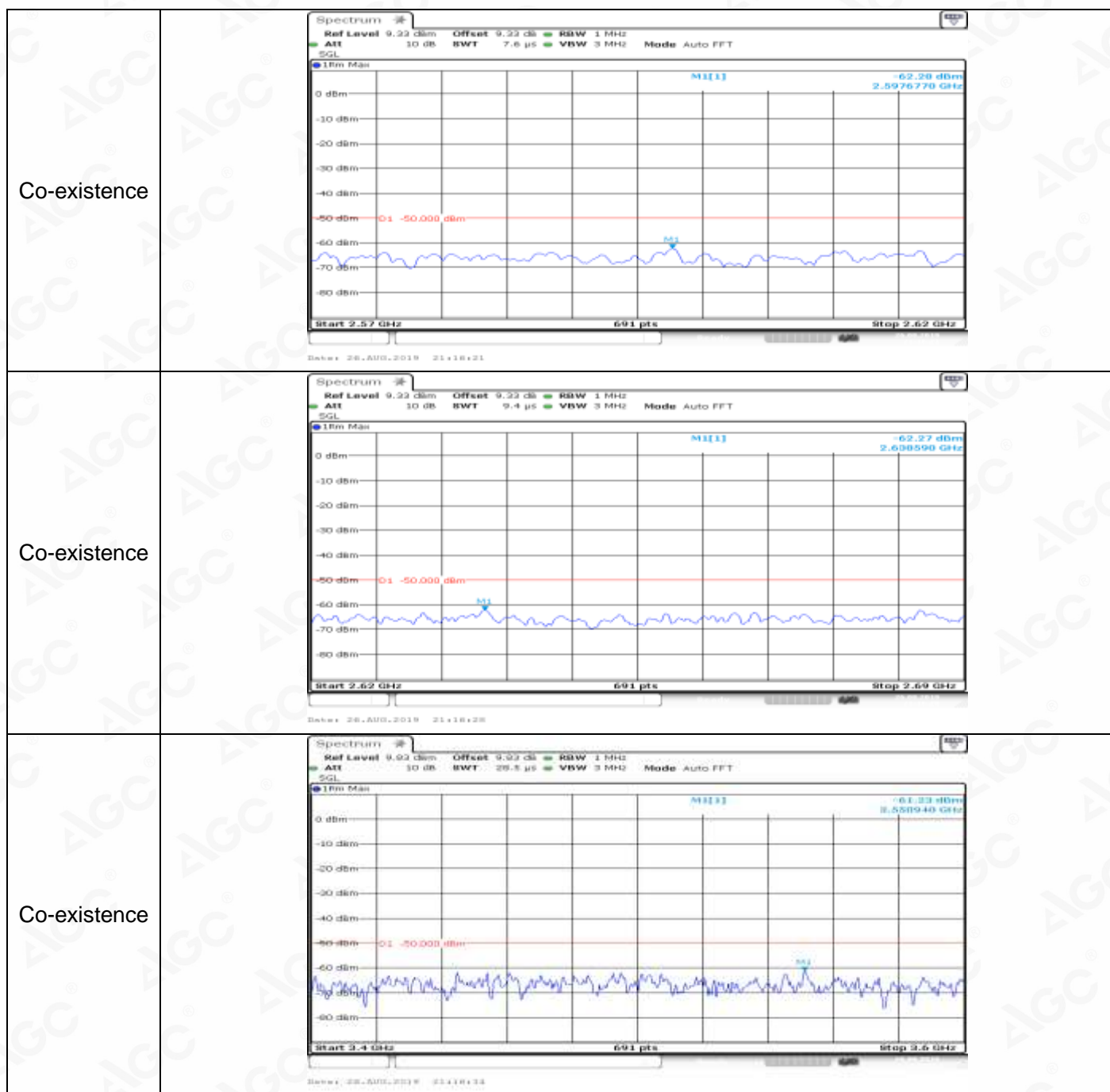
E-mail: agc@agc-cert.com

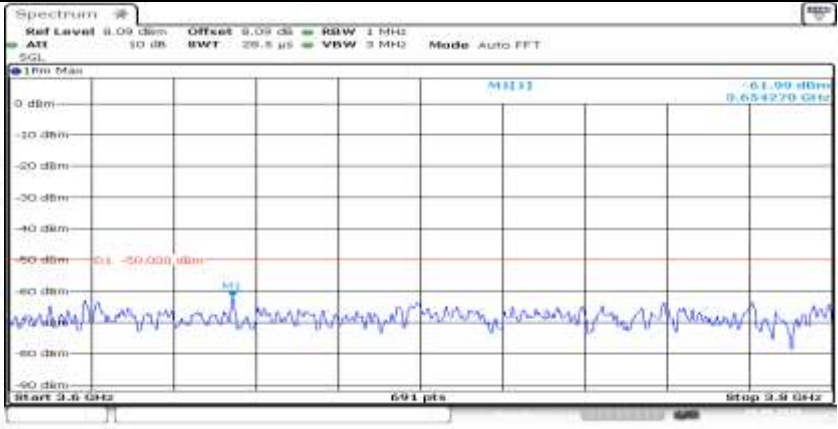
Service Hotline: 400 089 2118

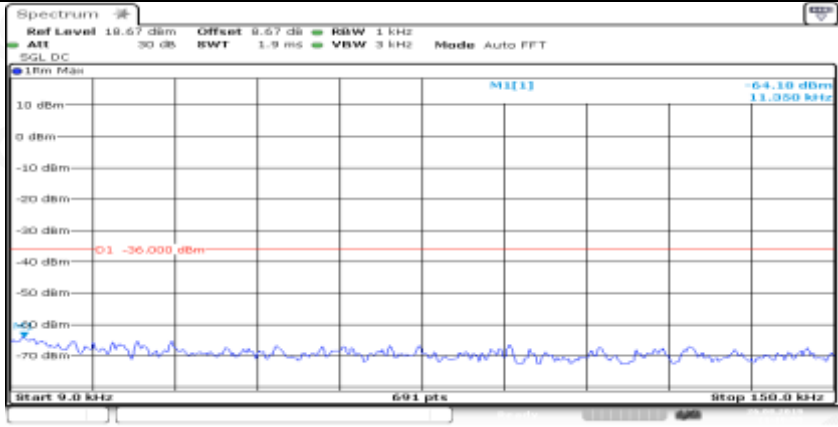
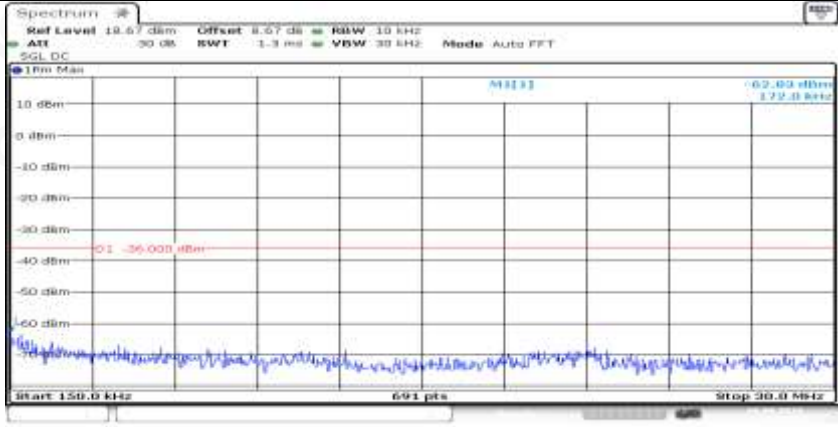
General	
General	
General	

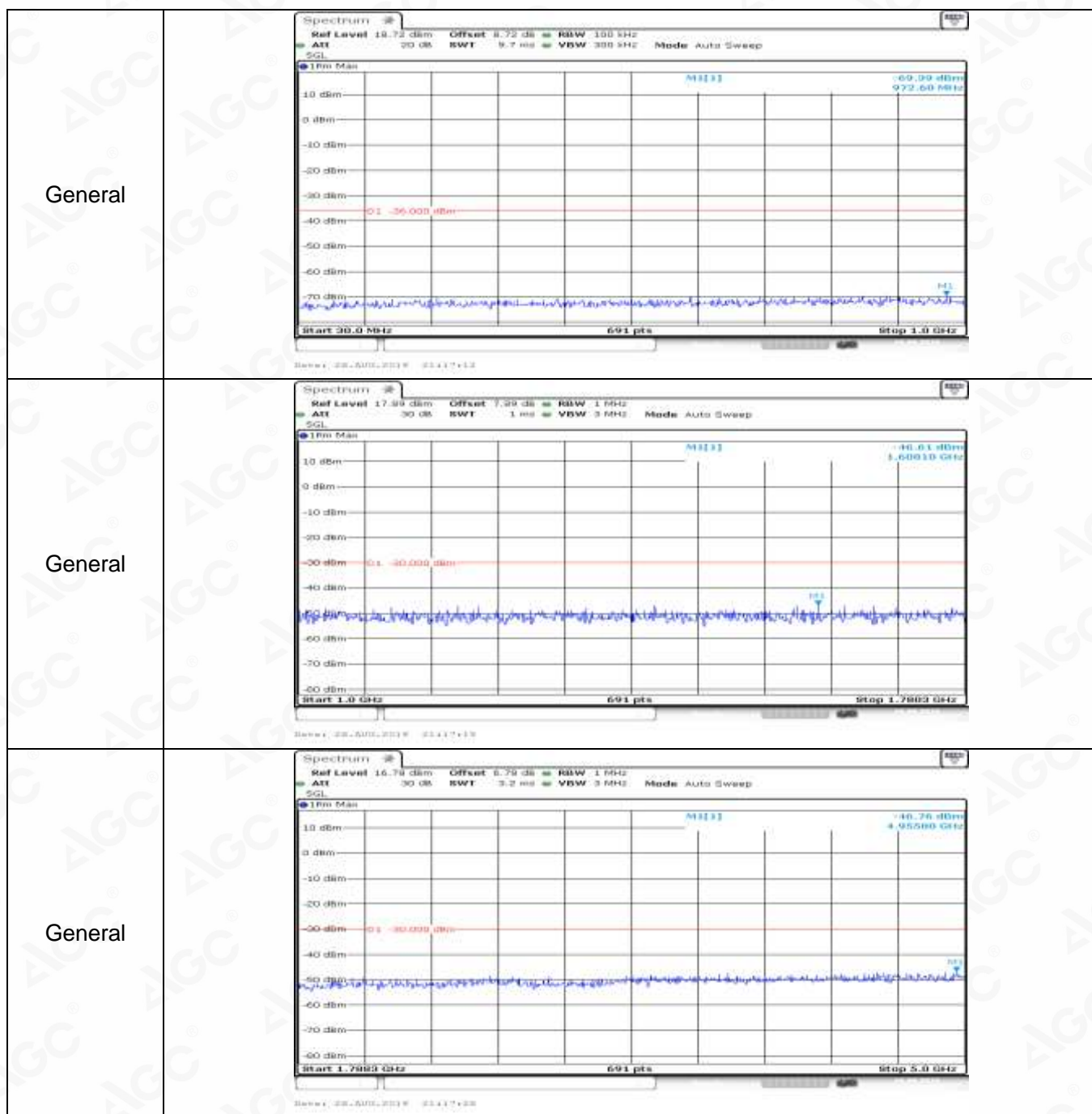
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.04 dBm Offset 9.04 dB BW 1 MHz</p> <p>ATT 10 dB BW 5.7 µs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -63.94 dBm 796.3620 MHz</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm -50.000 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>-90 dBm</p> <p>Start 791.0 MHz 691 pts Stop 821.0 MHz</p> <p>Date: 28.AUG.2019 21:15:40</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.95 dBm Offset 9.95 dB BW 1 MHz</p> <p>ATT 10 dB BW 5.7 µs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -62.10 dBm 938.2960 MHz</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm -50.000 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>-90 dBm</p> <p>Start 925.0 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 28.AUG.2019 21:15:40</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 8.79 dBm Offset 8.79 dB BW 1 MHz</p> <p>ATT 10 dB BW 11.4 µs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -66.42 dBm 1.361730 GHz</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm -50.000 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>-90 dBm</p> <p>Start 1.305 GHz 691 pts Stop 1.361 GHz</p> <p>Date: 28.AUG.2019 21:15:42</p>

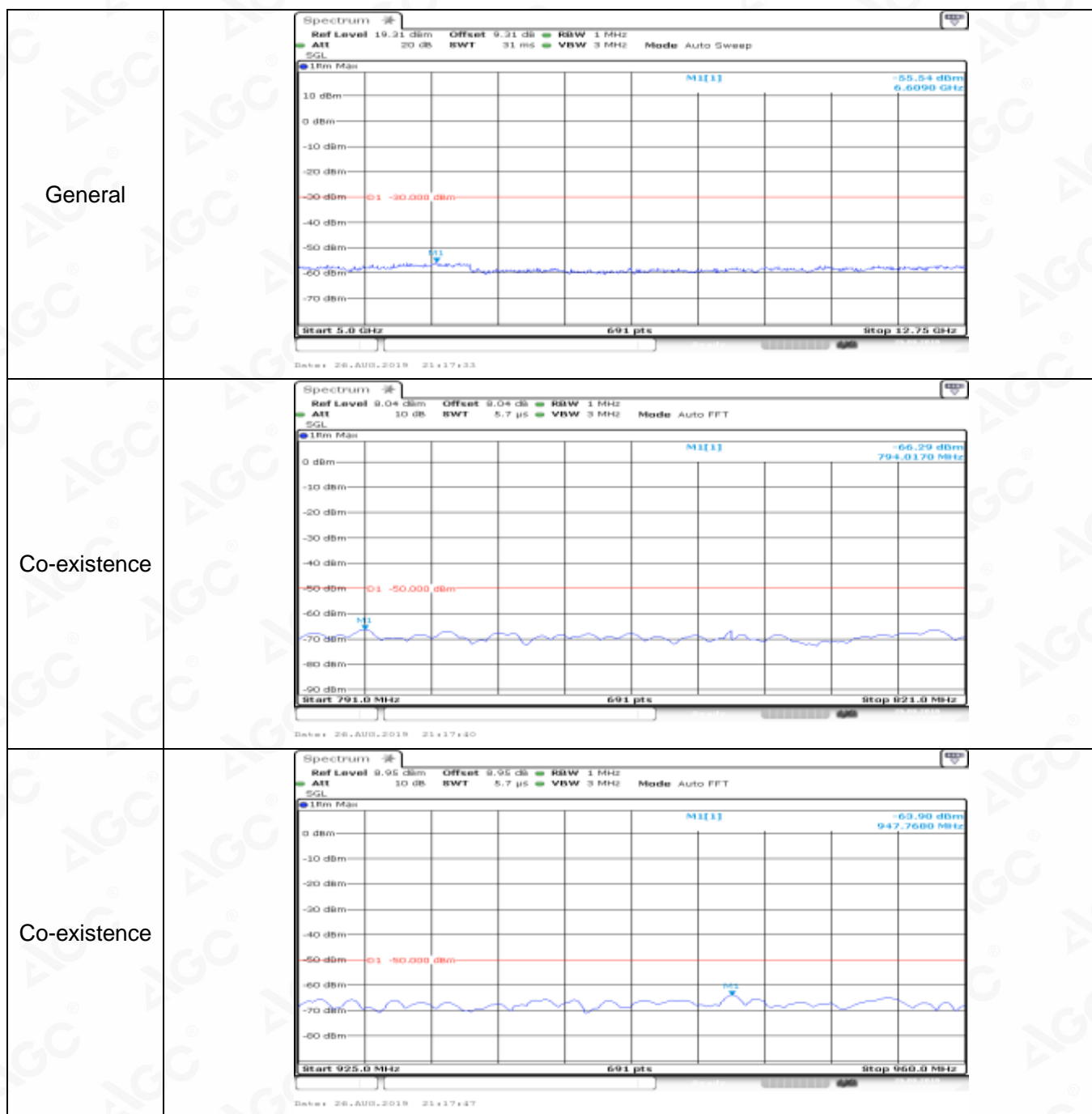
Co-existence	 <p>Spectrum Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz Att 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max M1[1] -66.02 dBm 1.9116210 GHz Start 1.9 GHz 691 pts Stop 1.92 GHz Date: 26.AUG.2019 21:18:00</p>
Co-existence	 <p>Spectrum Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz Att 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max M1[1] -64.17 dBm 2.0106140 GHz Start 2.0 GHz 691 pts Stop 2.025 GHz Date: 26.AUG.2019 21:18:07</p>
Co-existence	 <p>Spectrum Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz Att 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max M1[1] -65.62 dBm 2.1330540 GHz Start 2.1 GHz 691 pts Stop 2.17 GHz Date: 26.AUG.2019 21:18:14</p>


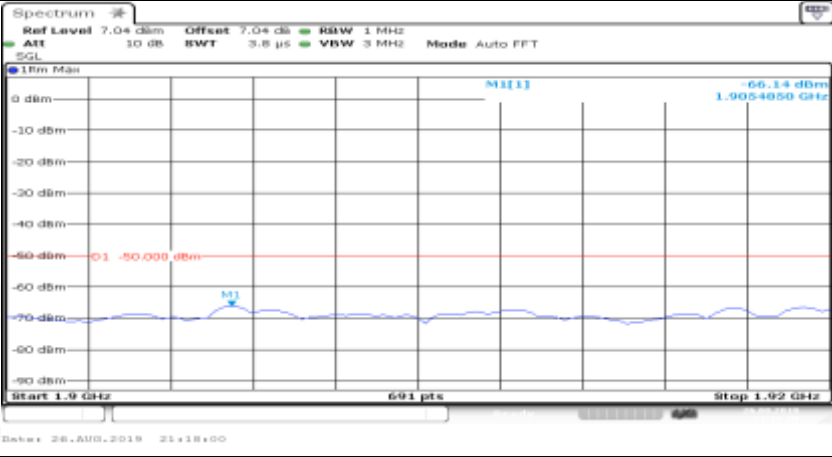
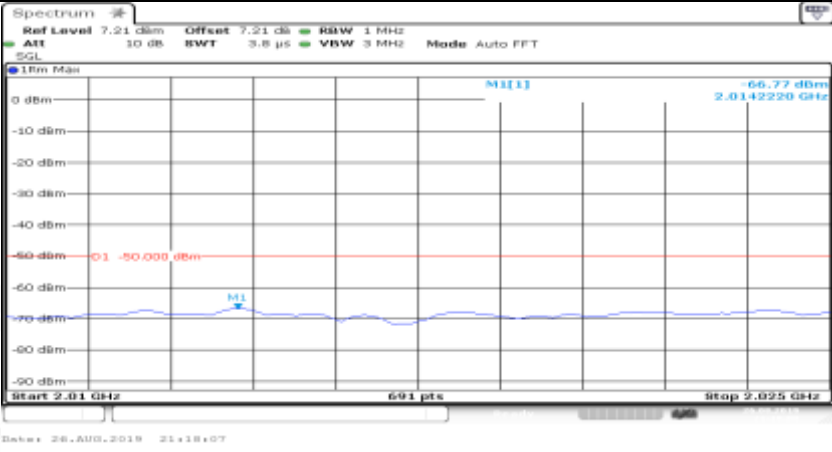


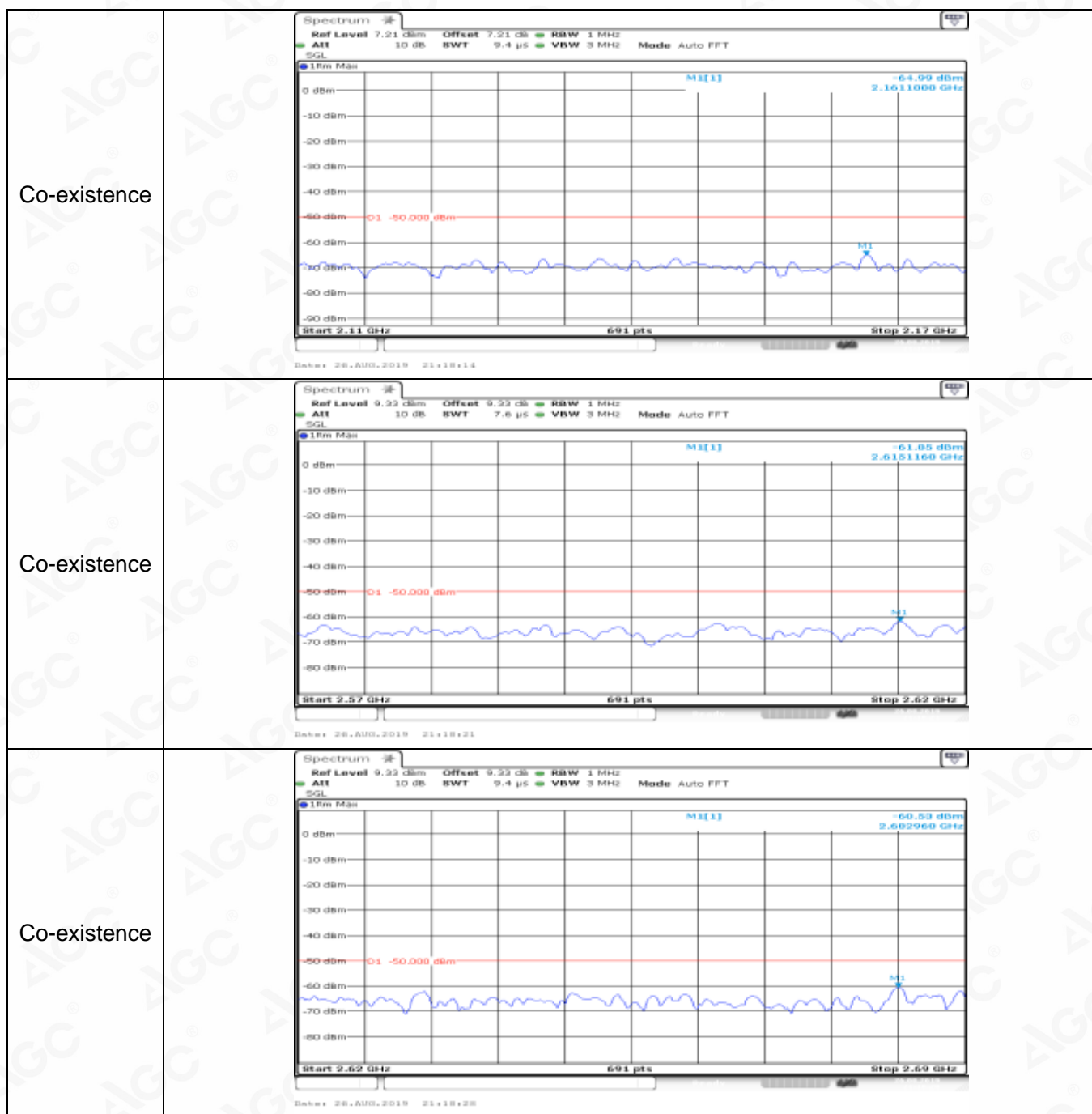
Co-existence	
Additional	NA

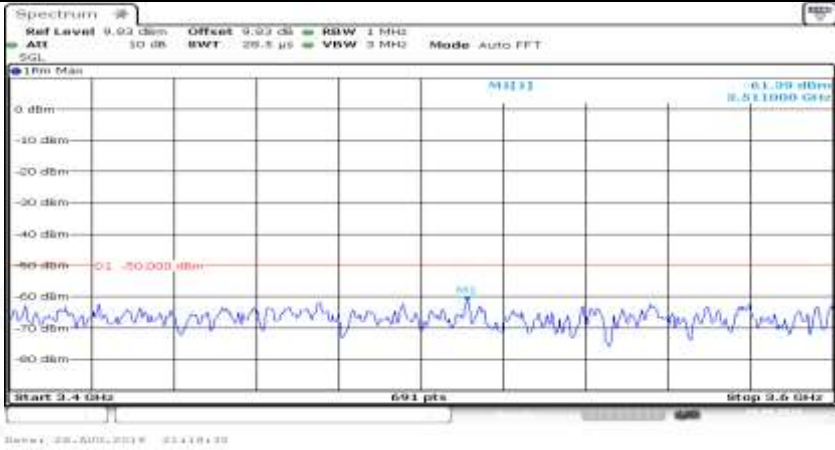
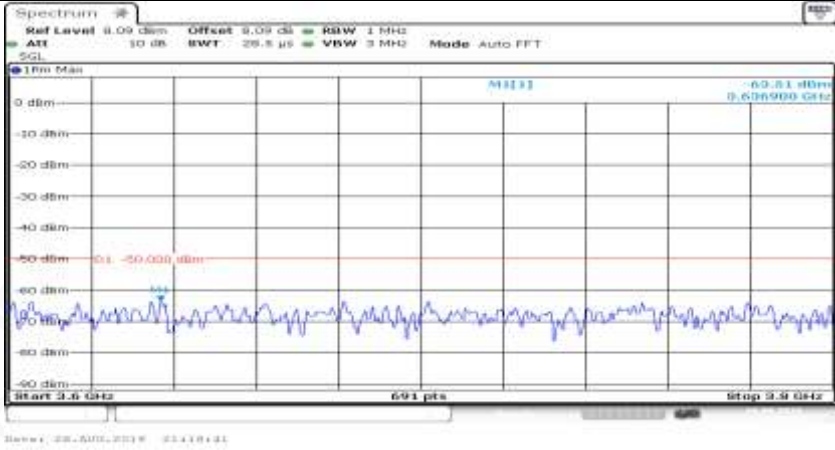
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0	
General	
General	

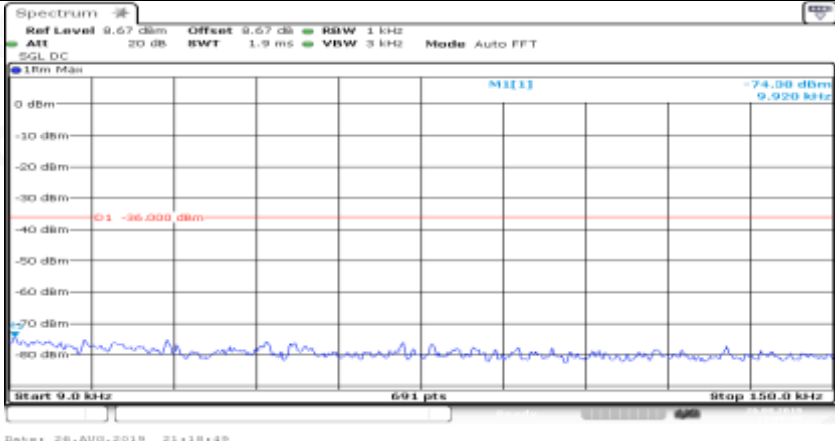


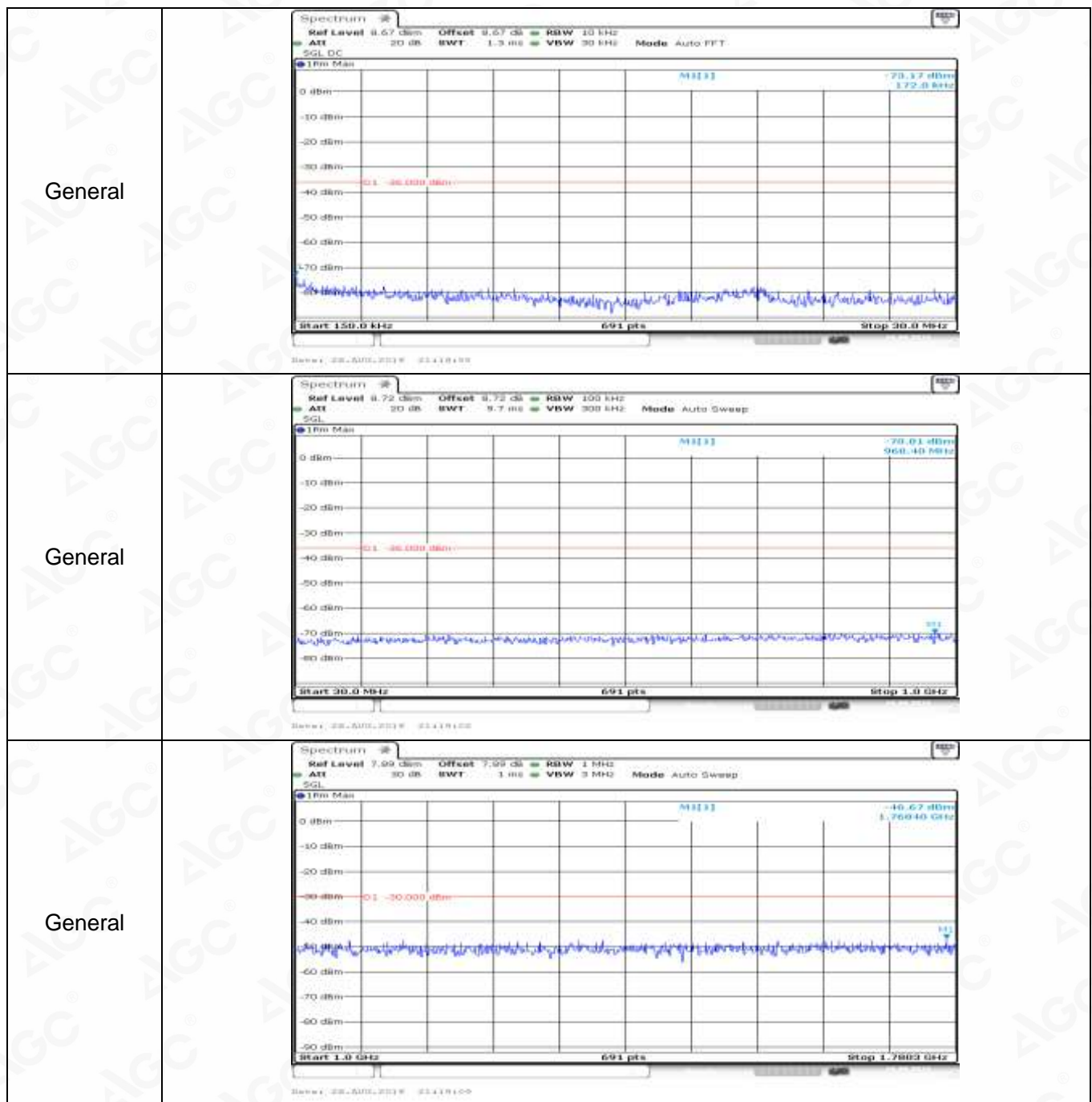


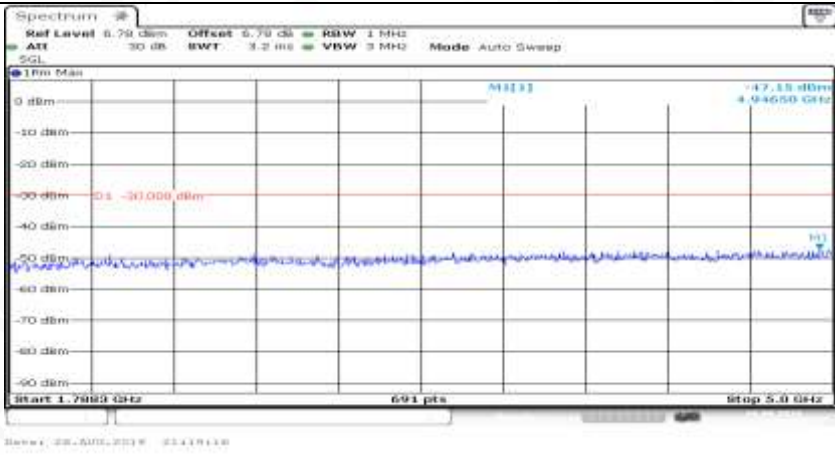
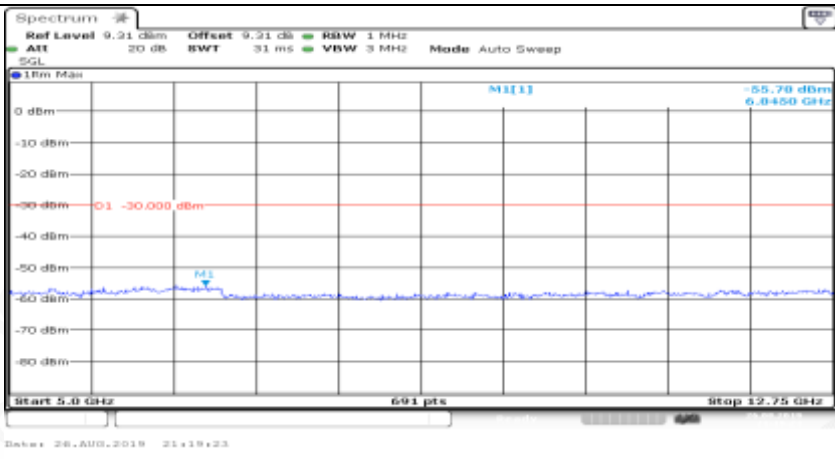
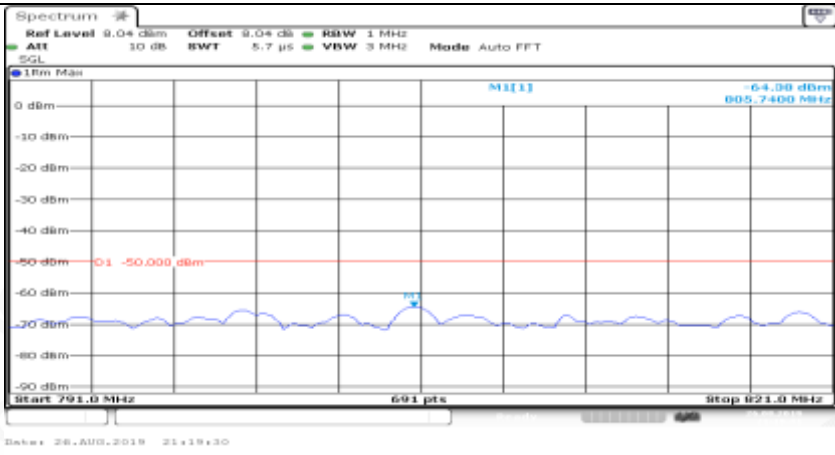
Co-existence	
Co-existence	
Co-existence	

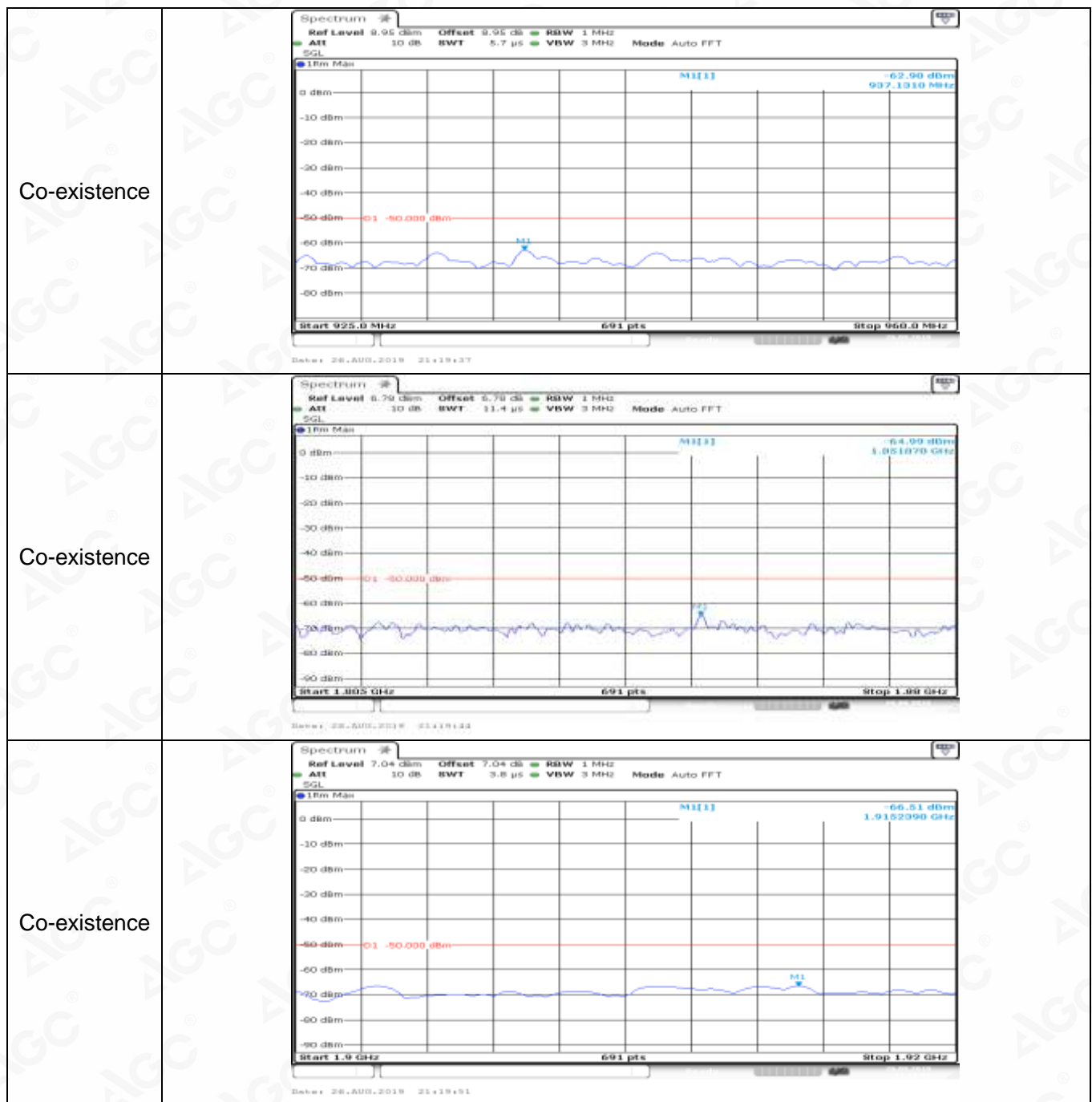


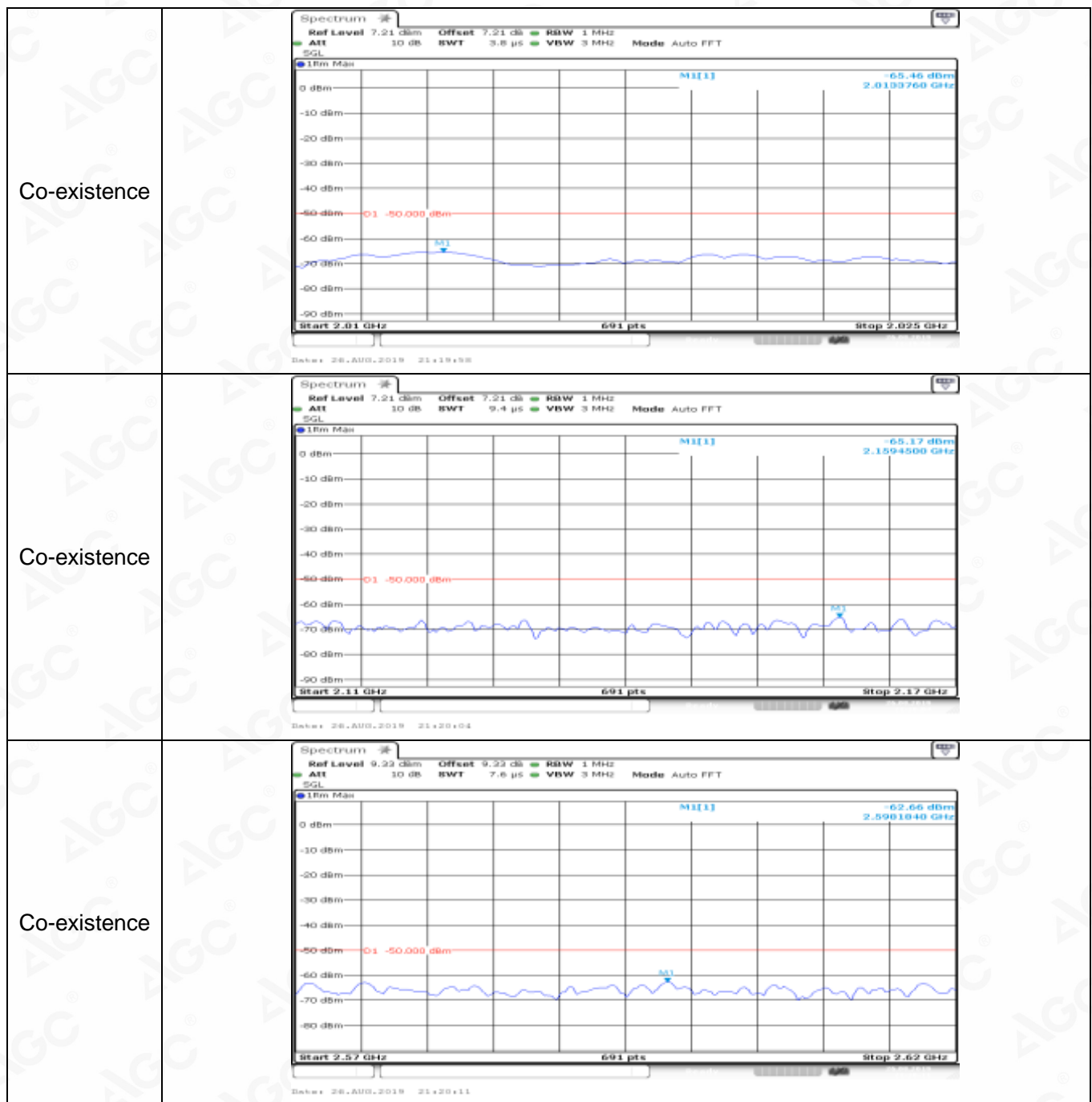
Co-existence	
Co-existence	
Additional	NA

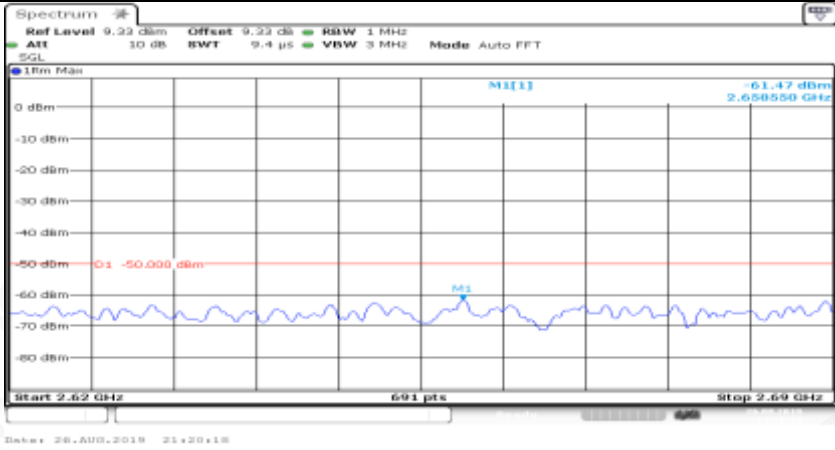


Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max	
General	



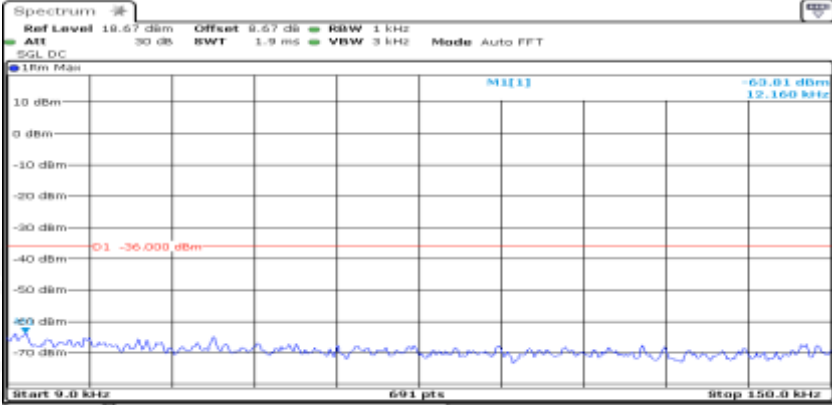
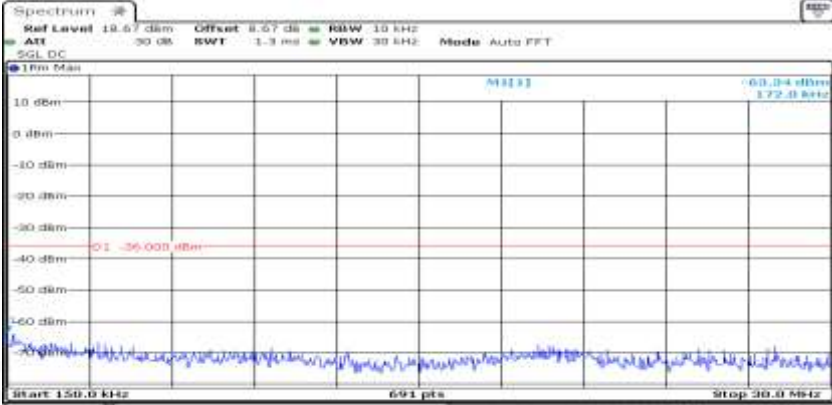
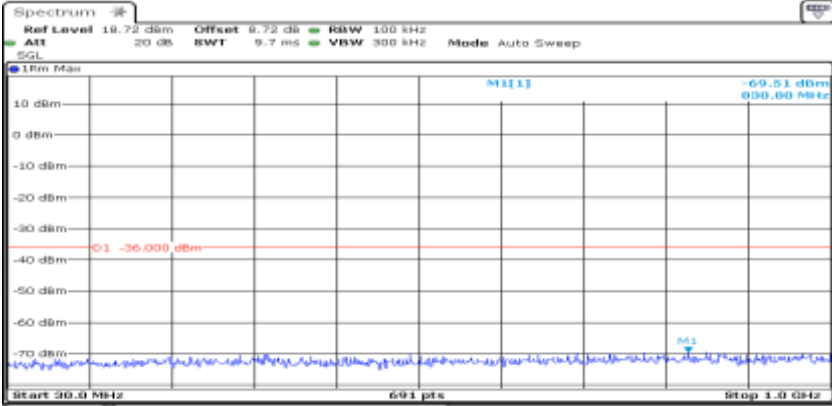
General	
General	
Co-existence	



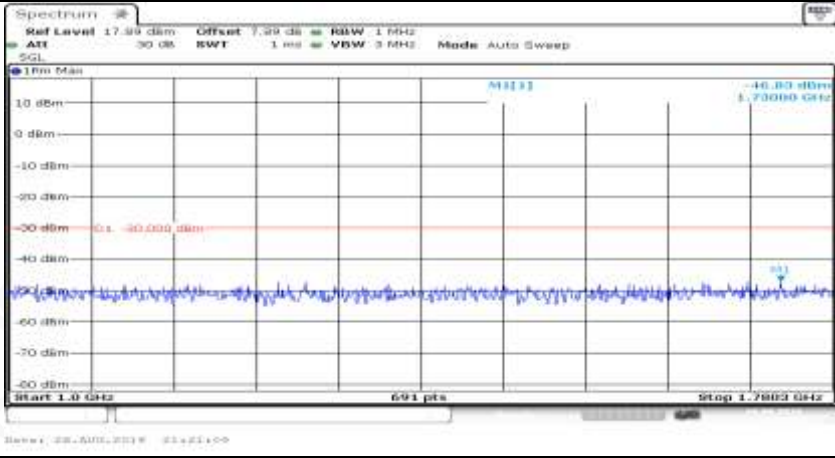
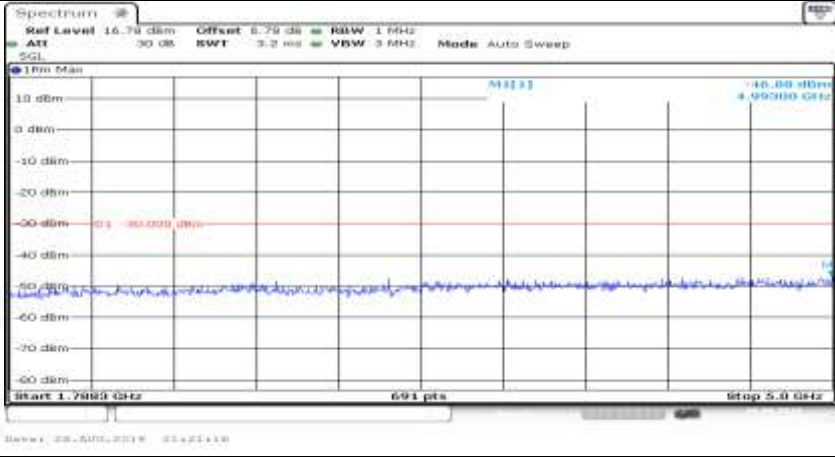
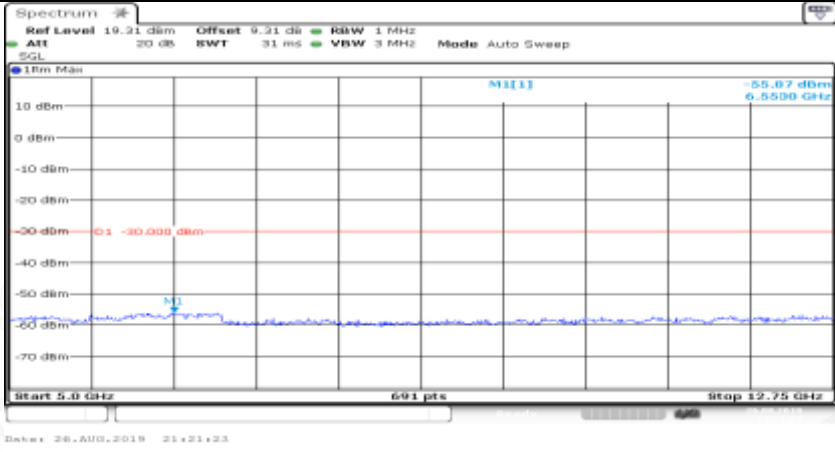


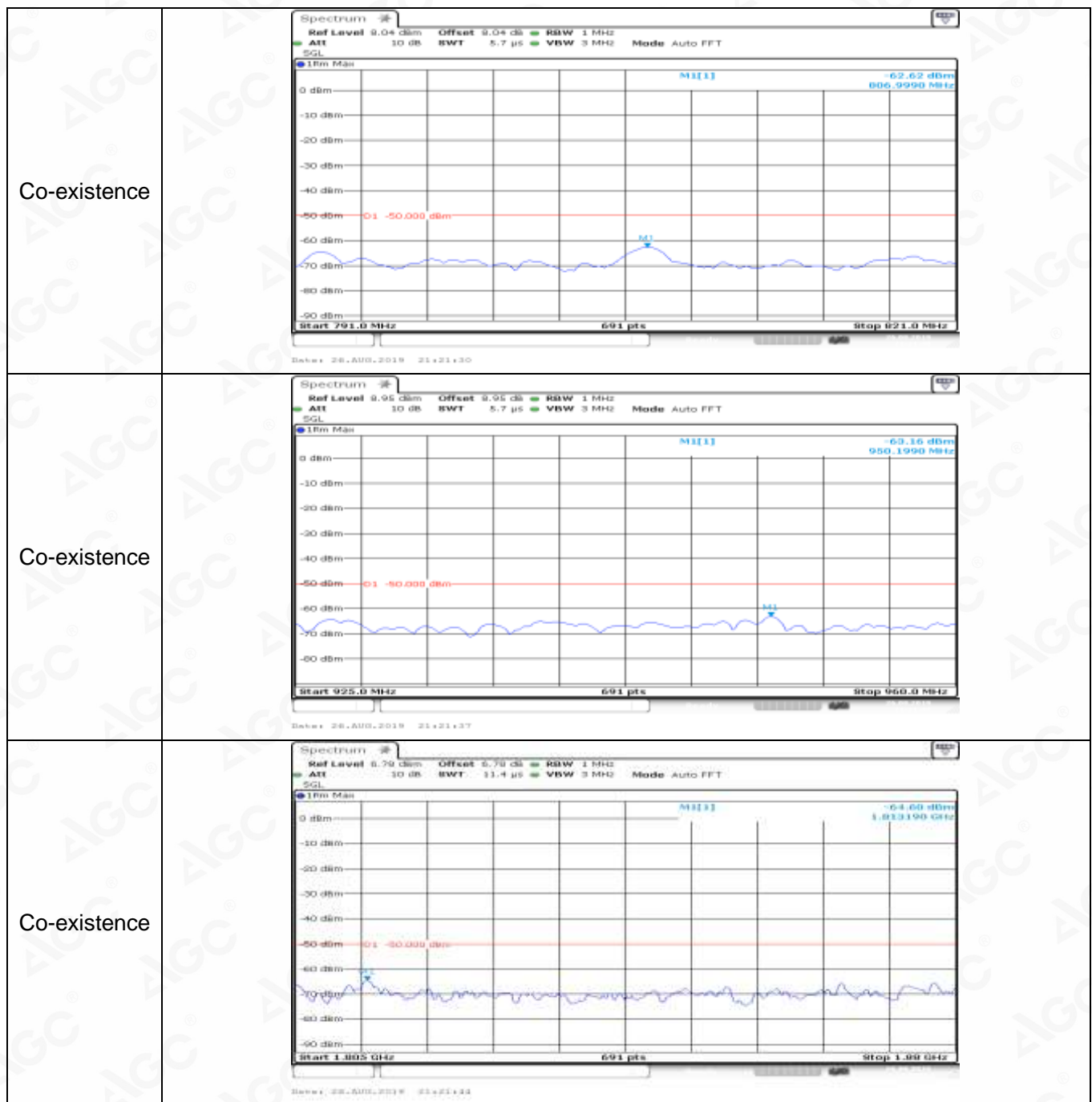
Co-existence	
Co-existence	
Co-existence	
Additional	NA

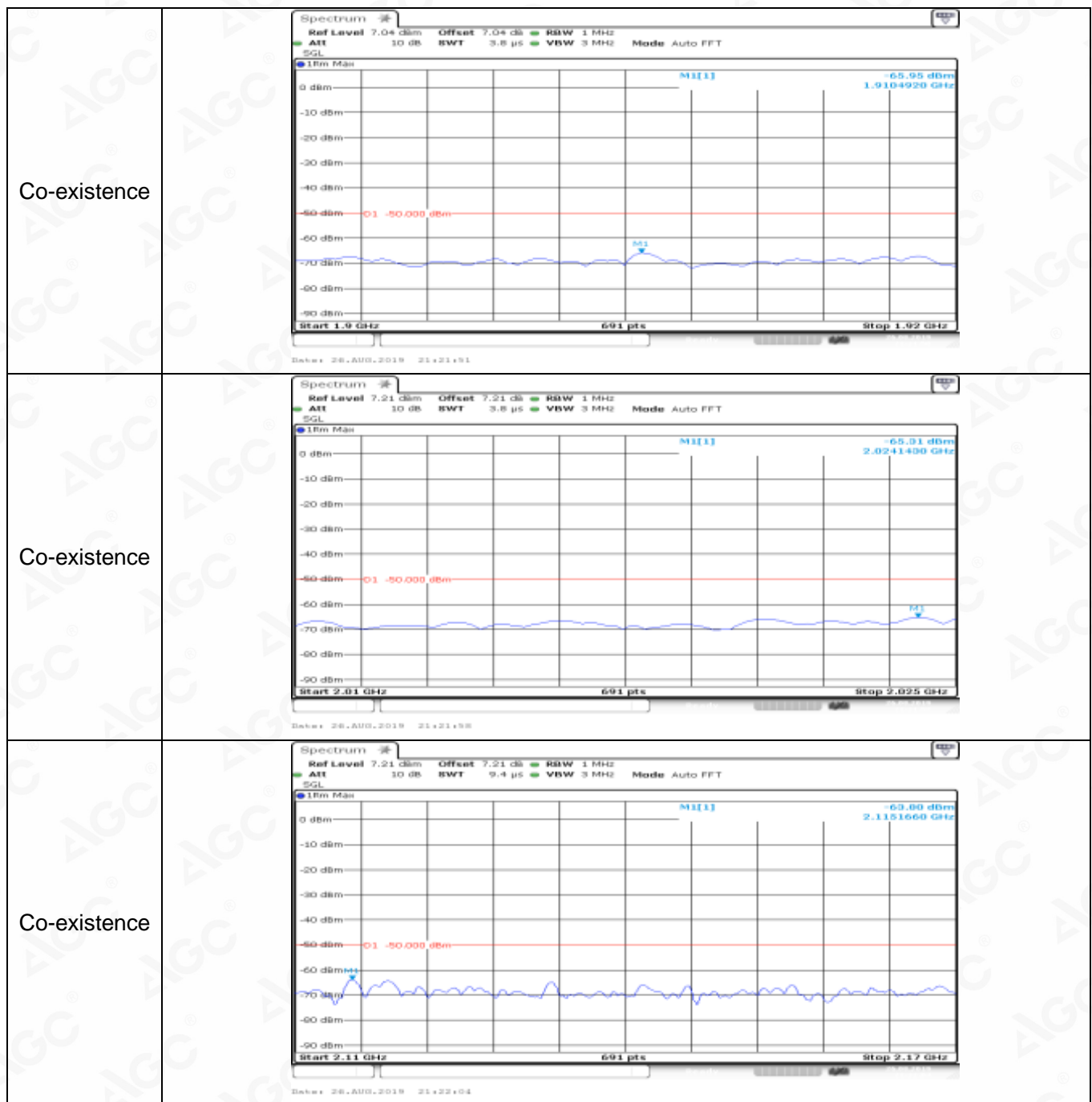
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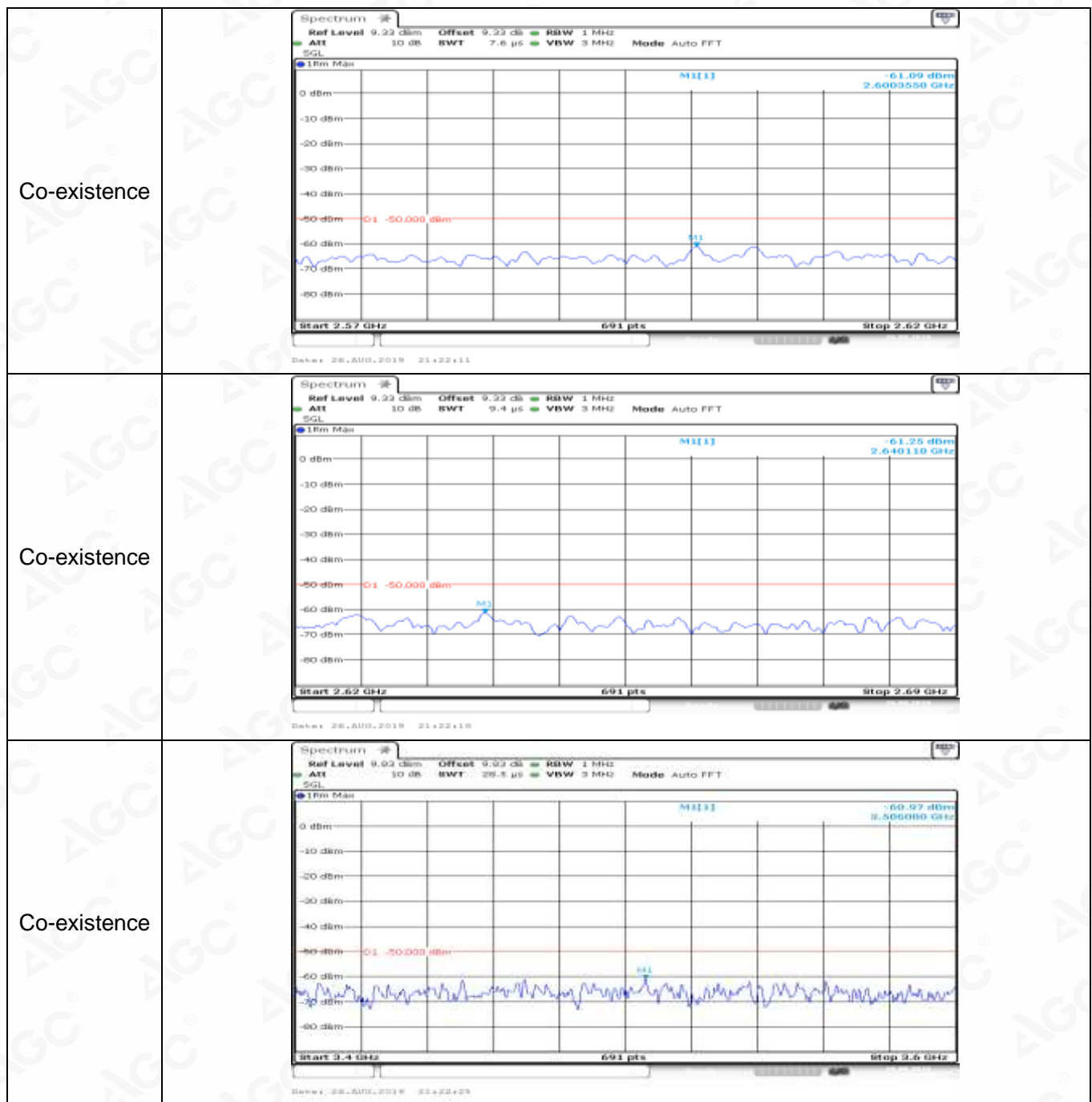
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General	

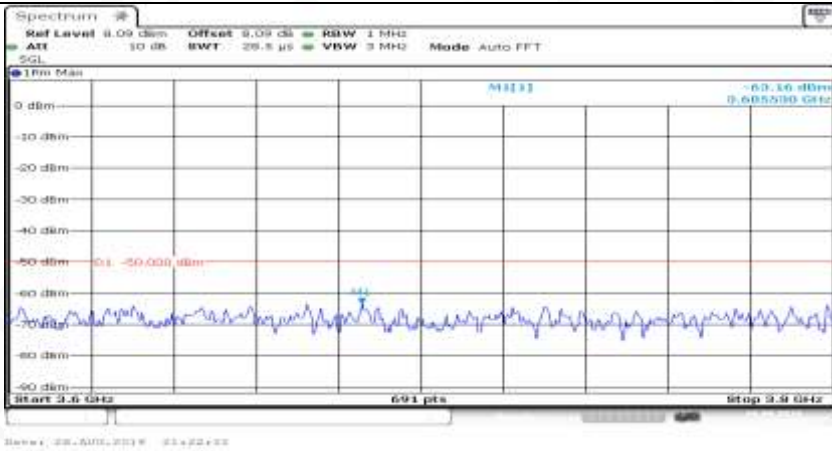


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General	

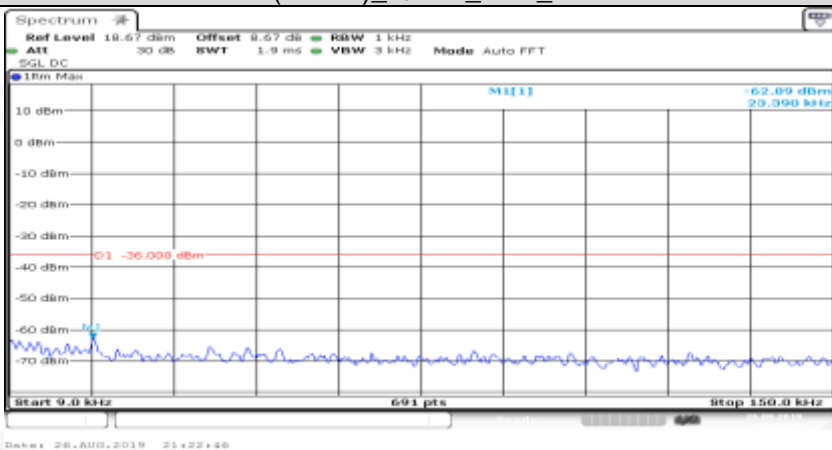
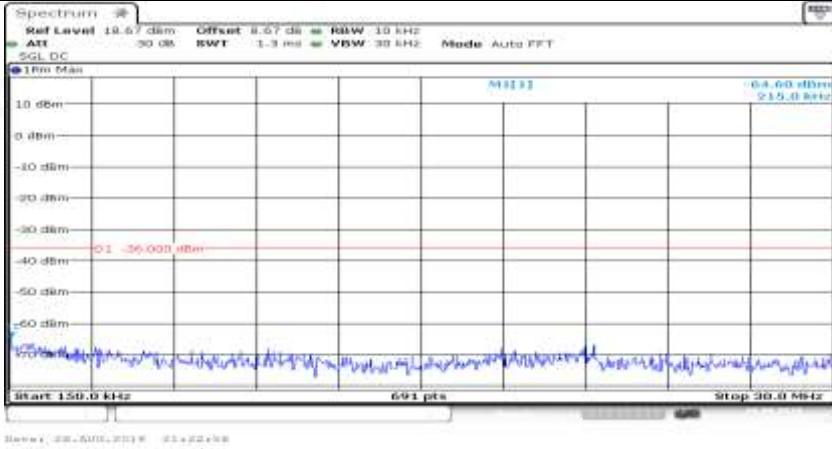


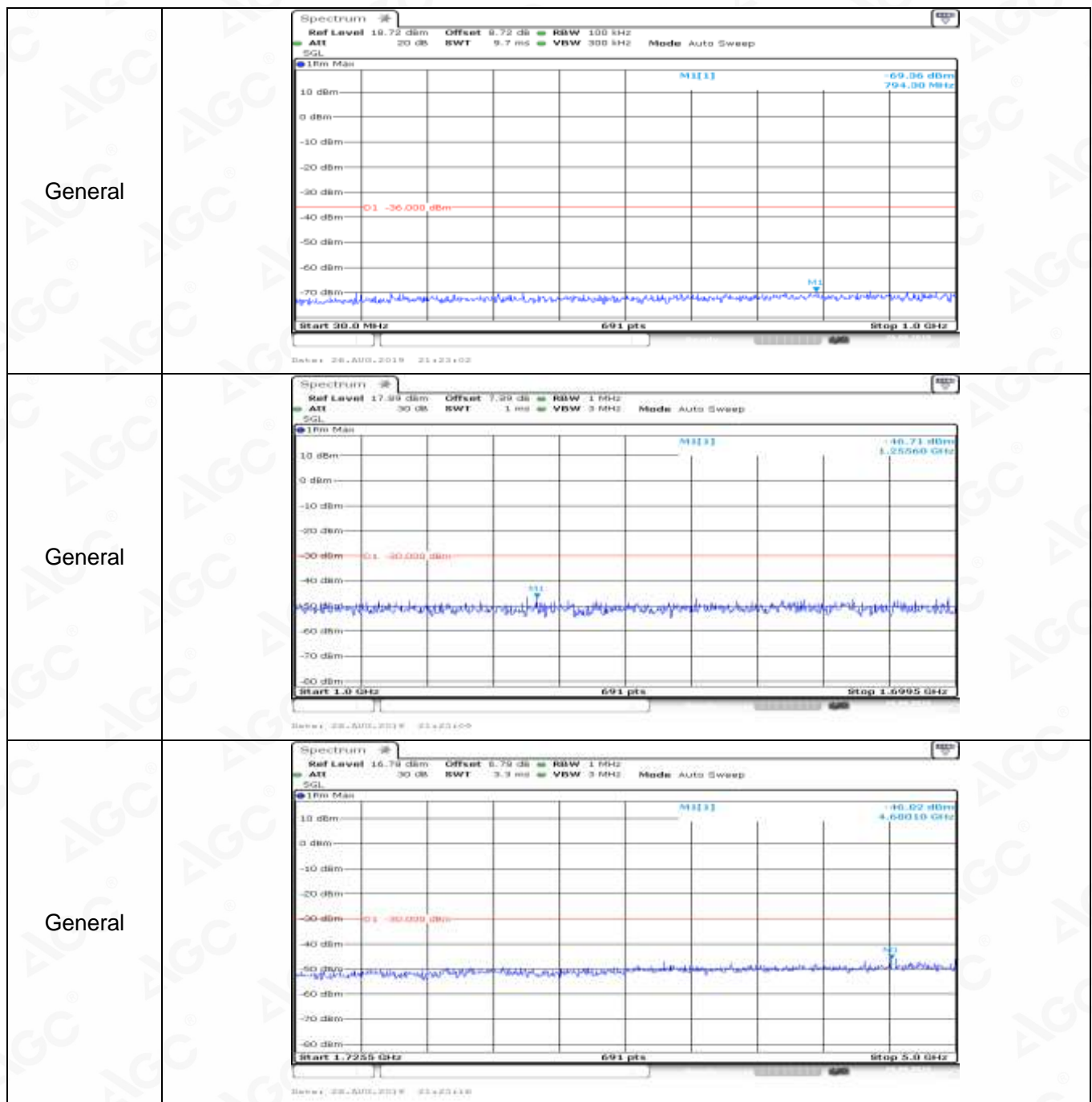


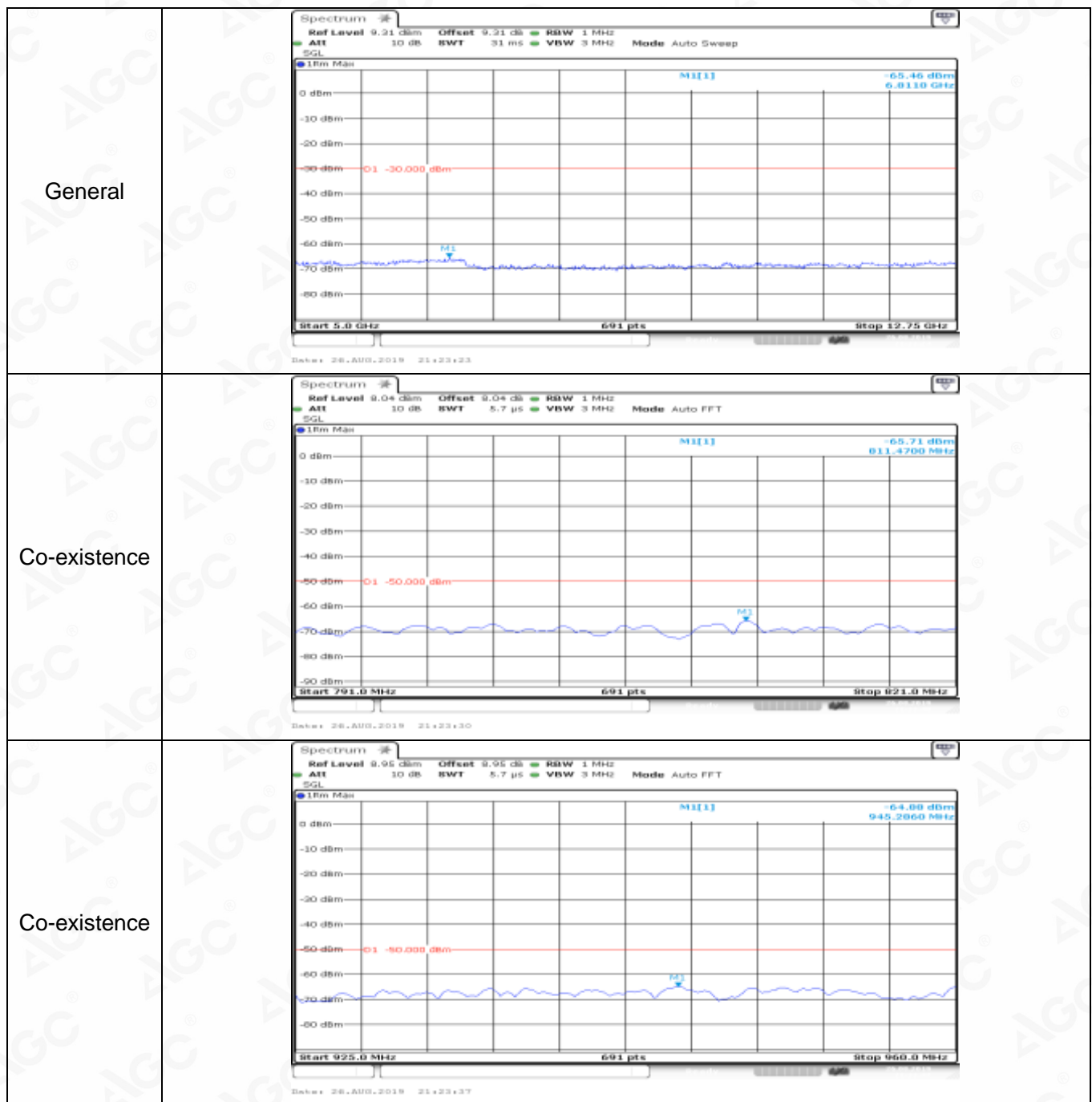



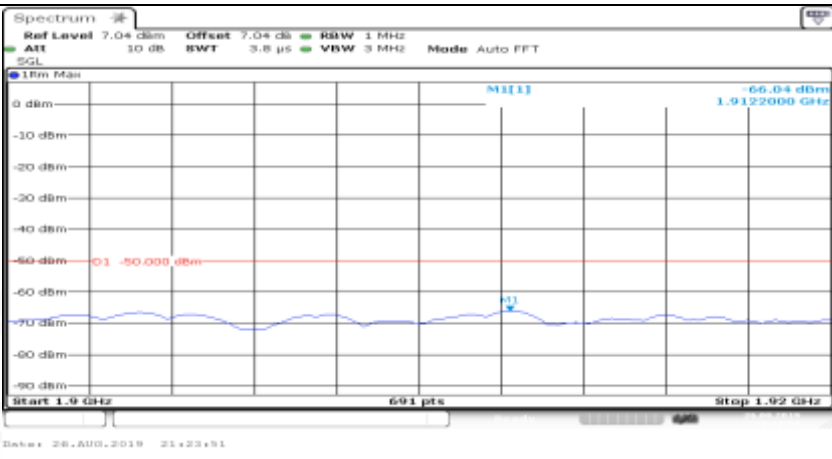
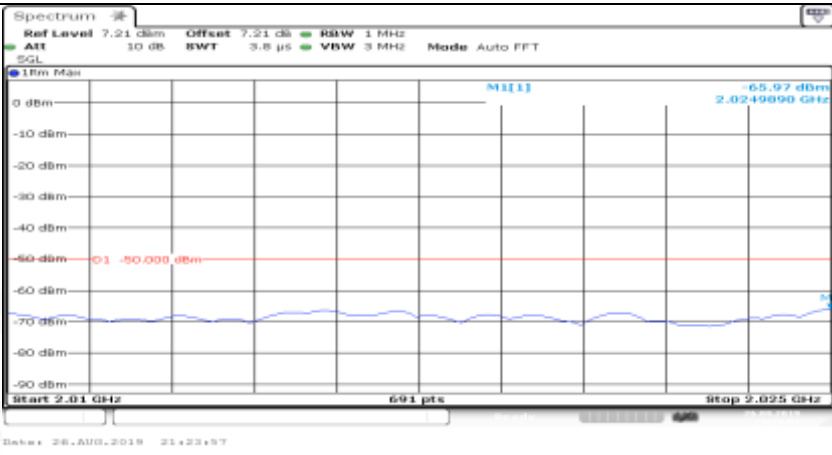
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)

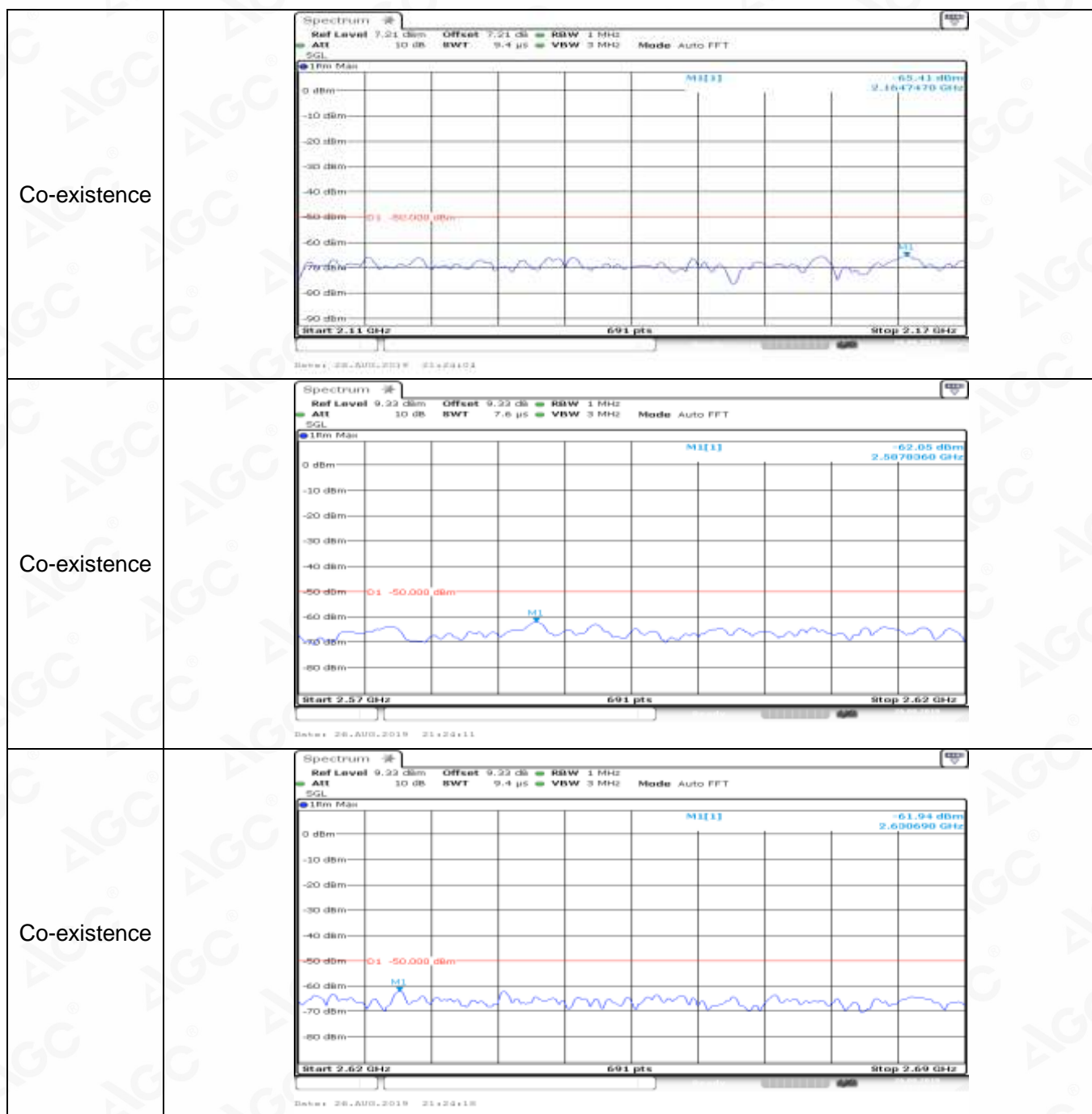
Channel Bandwidth=(5 MHz)_QPSK_LCH_1RB#0	
General	
General	

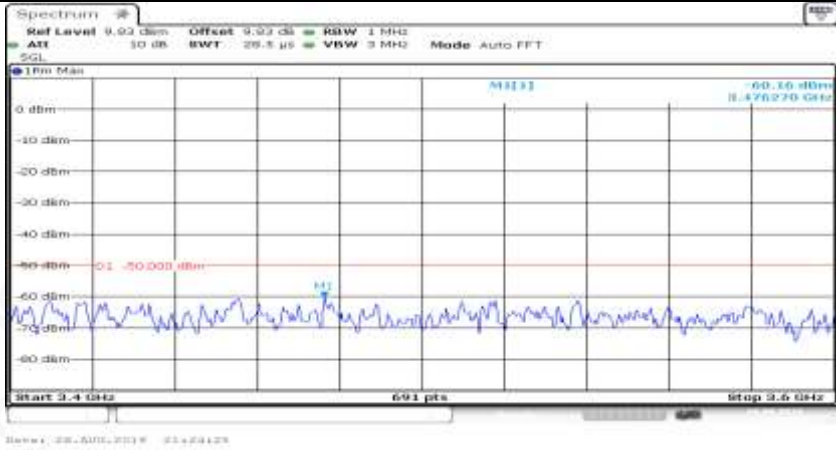
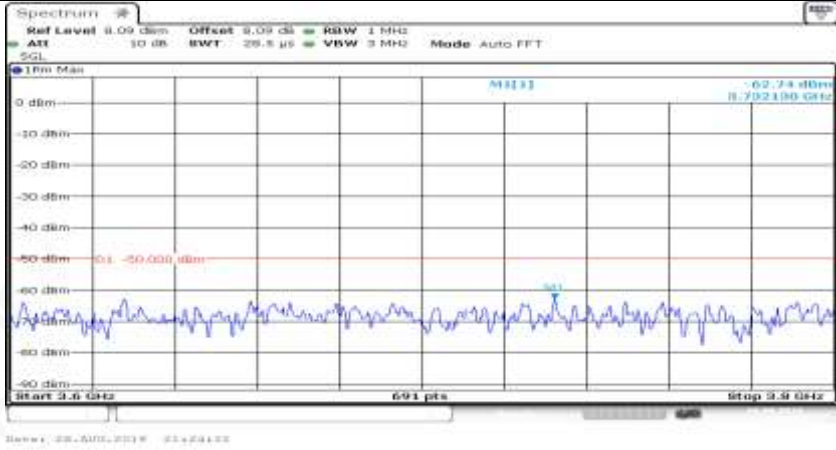


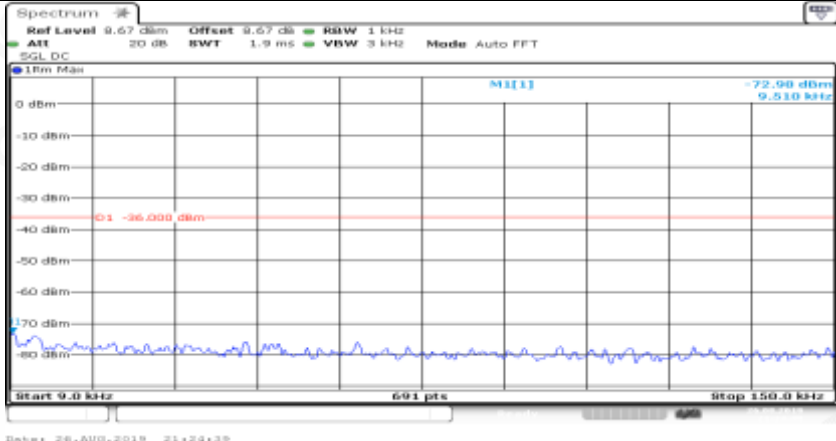


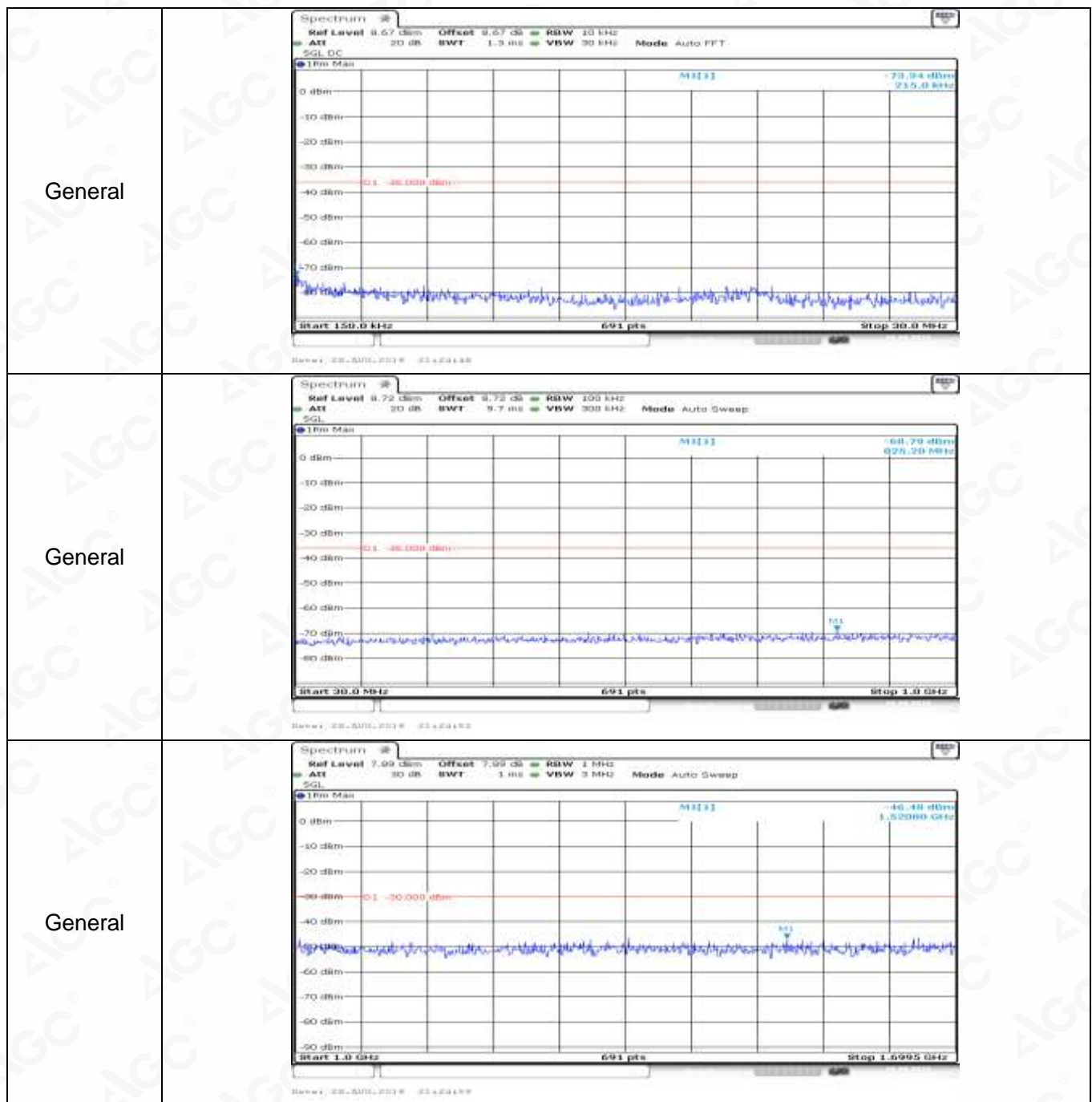
Co-existence	
Co-existence	
Co-existence	

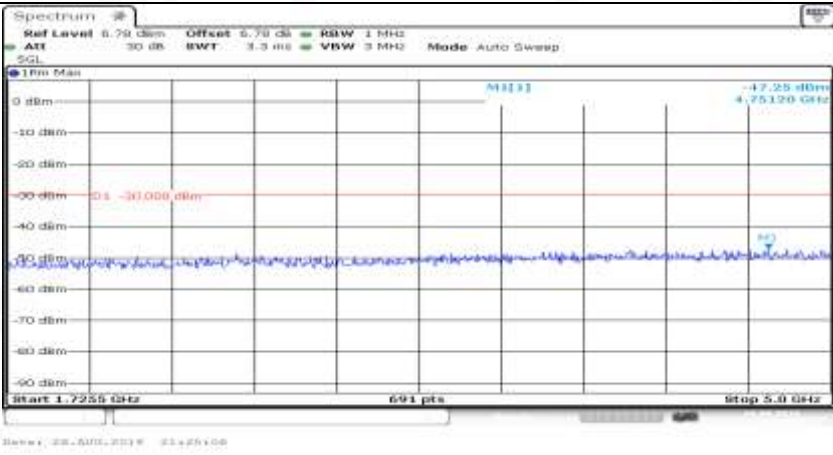
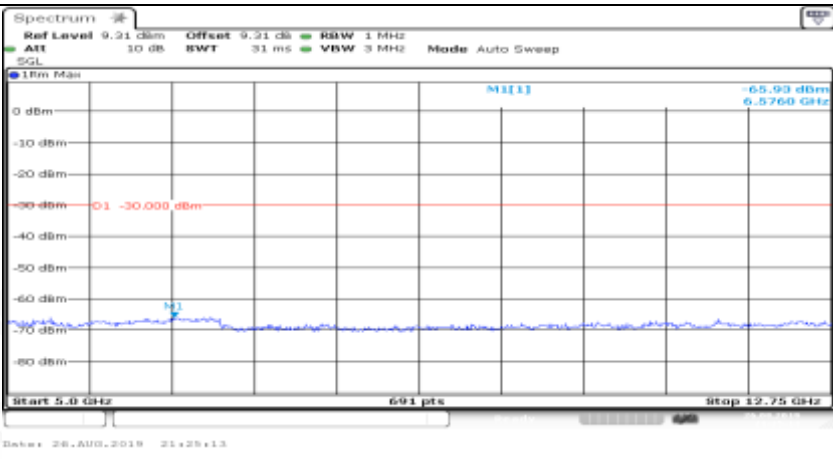
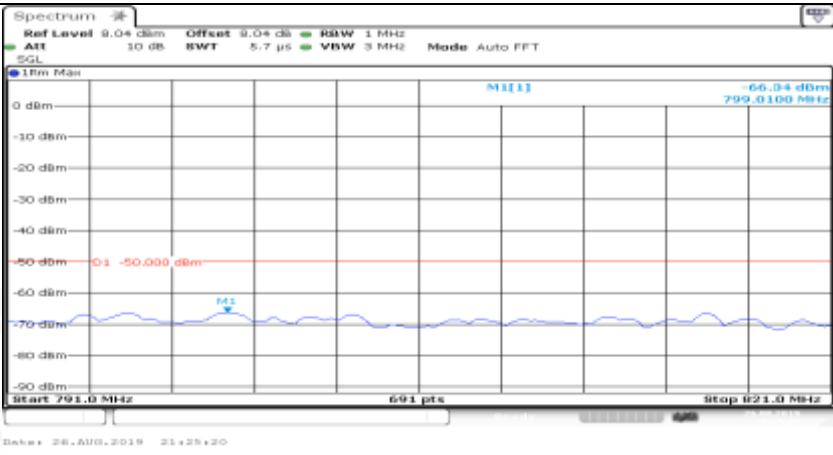


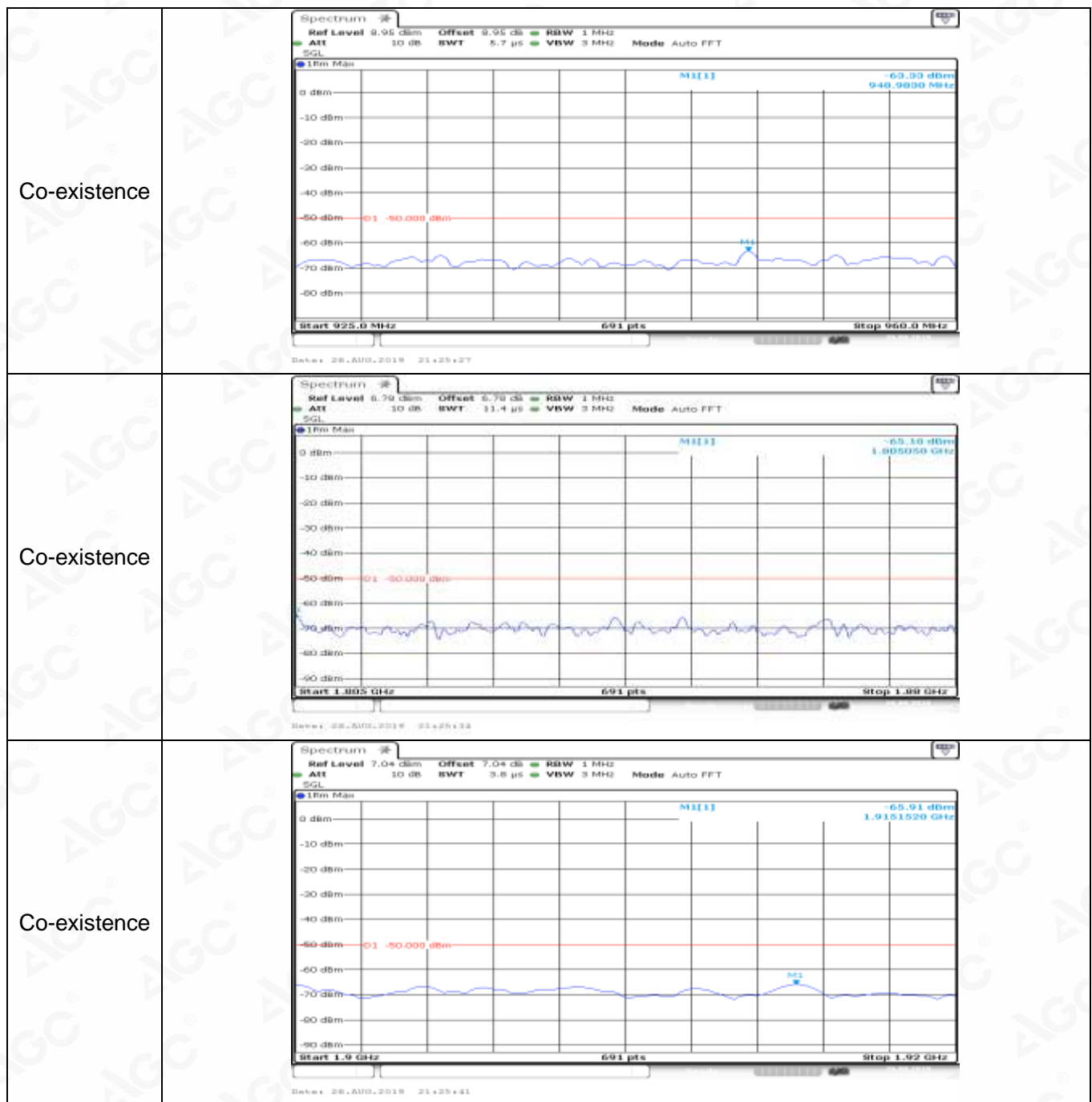


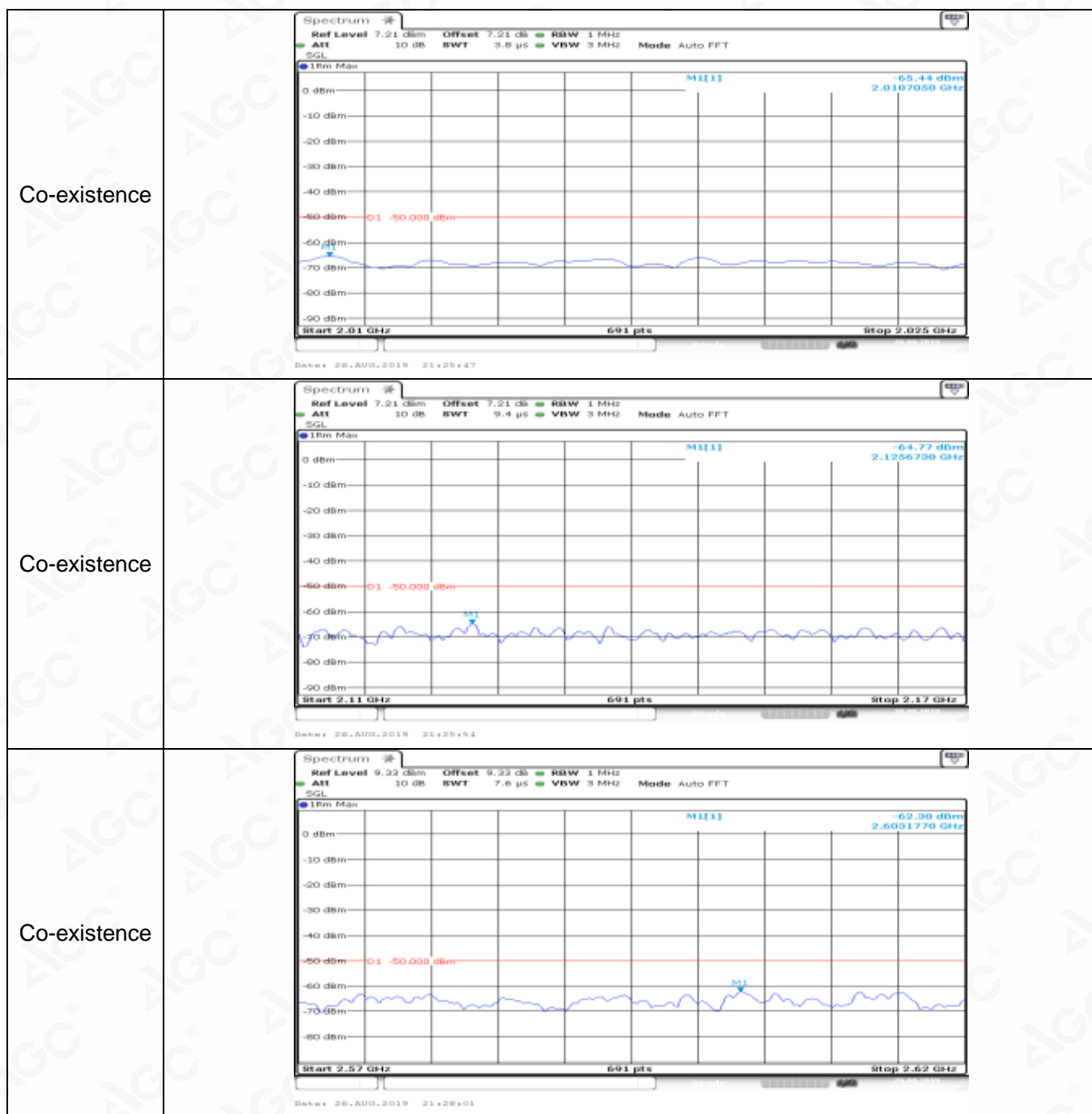
Co-existence	
Co-existence	
Additional	NA

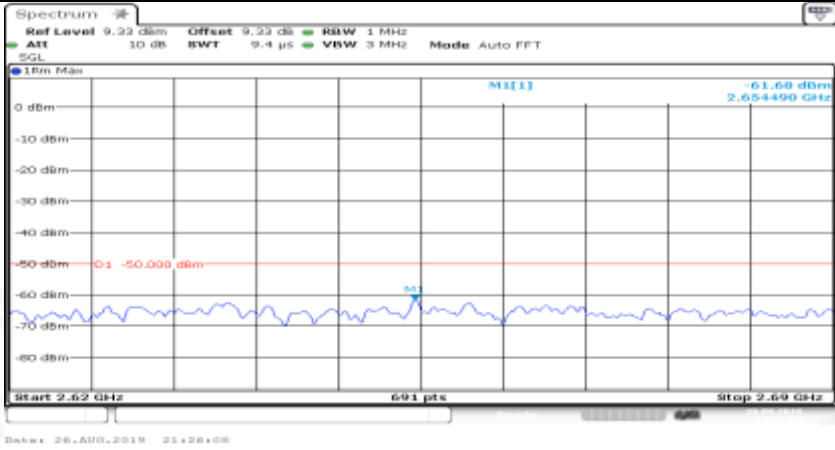
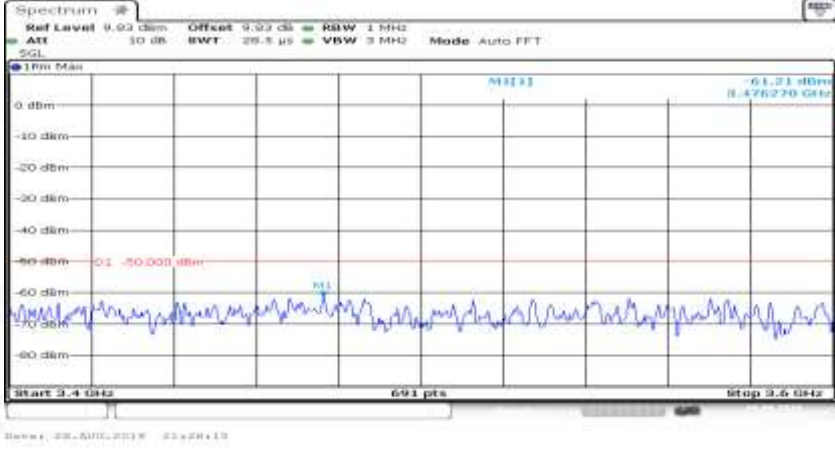

Channel Bandwidth= (5 MHz)_QPSK_LCH_1RB#max	
General	

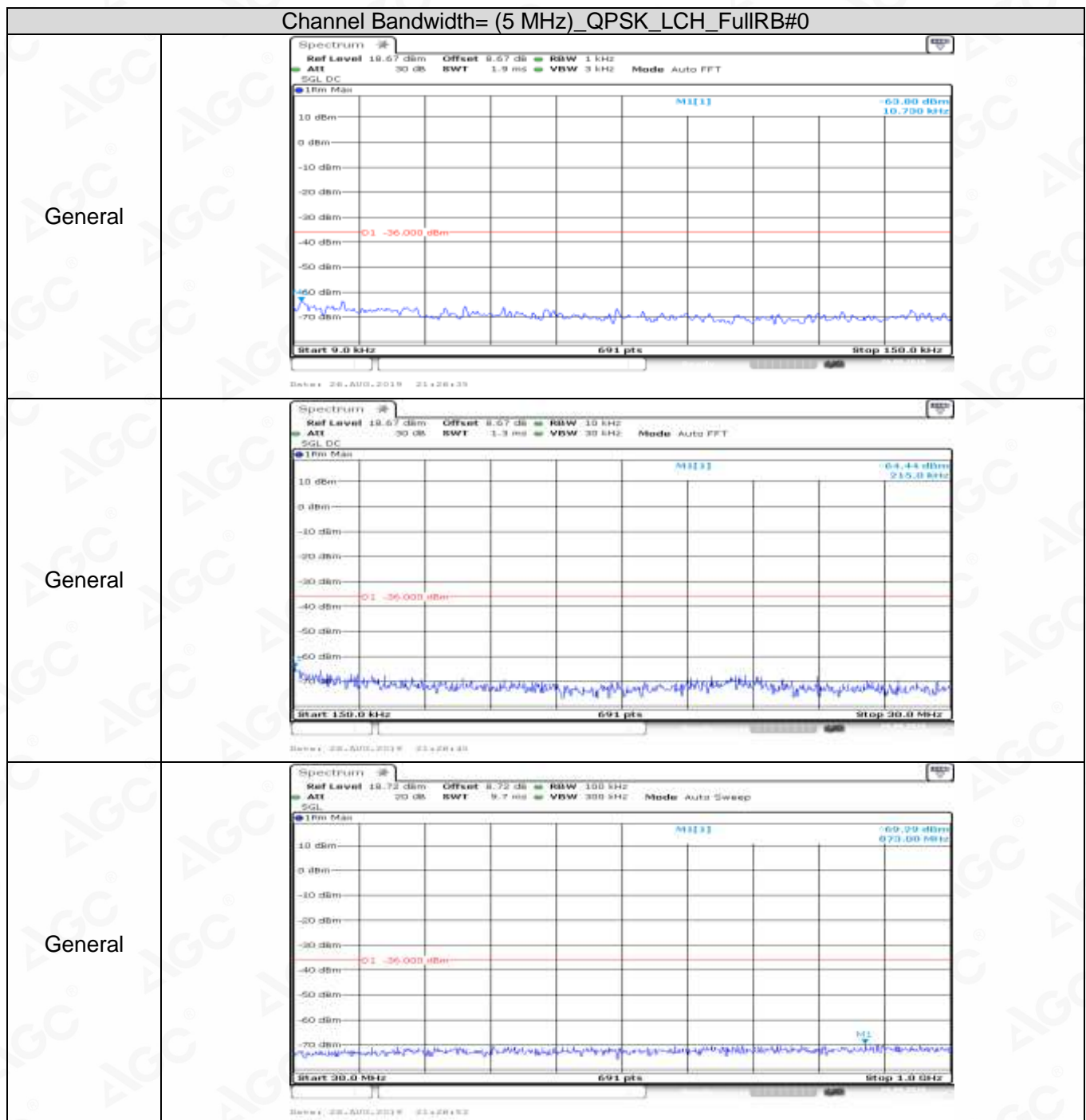


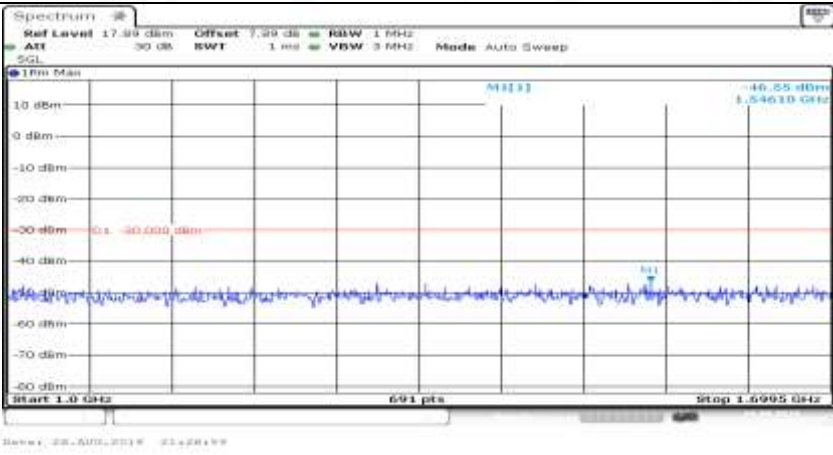
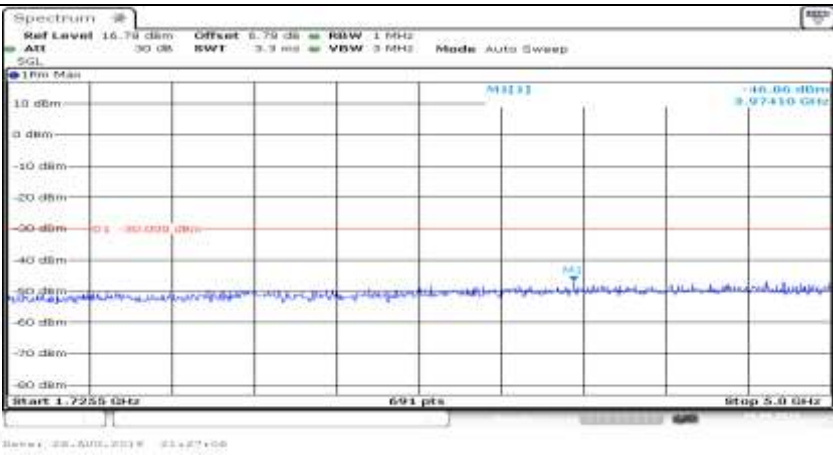
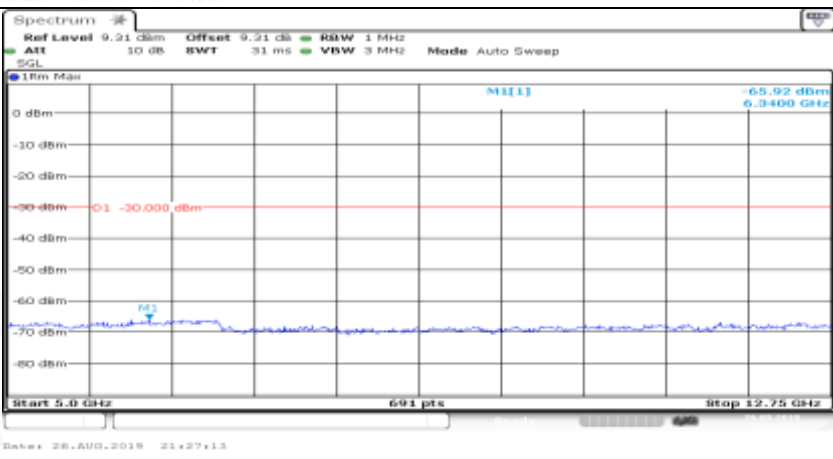
General	
General	
Co-existence	

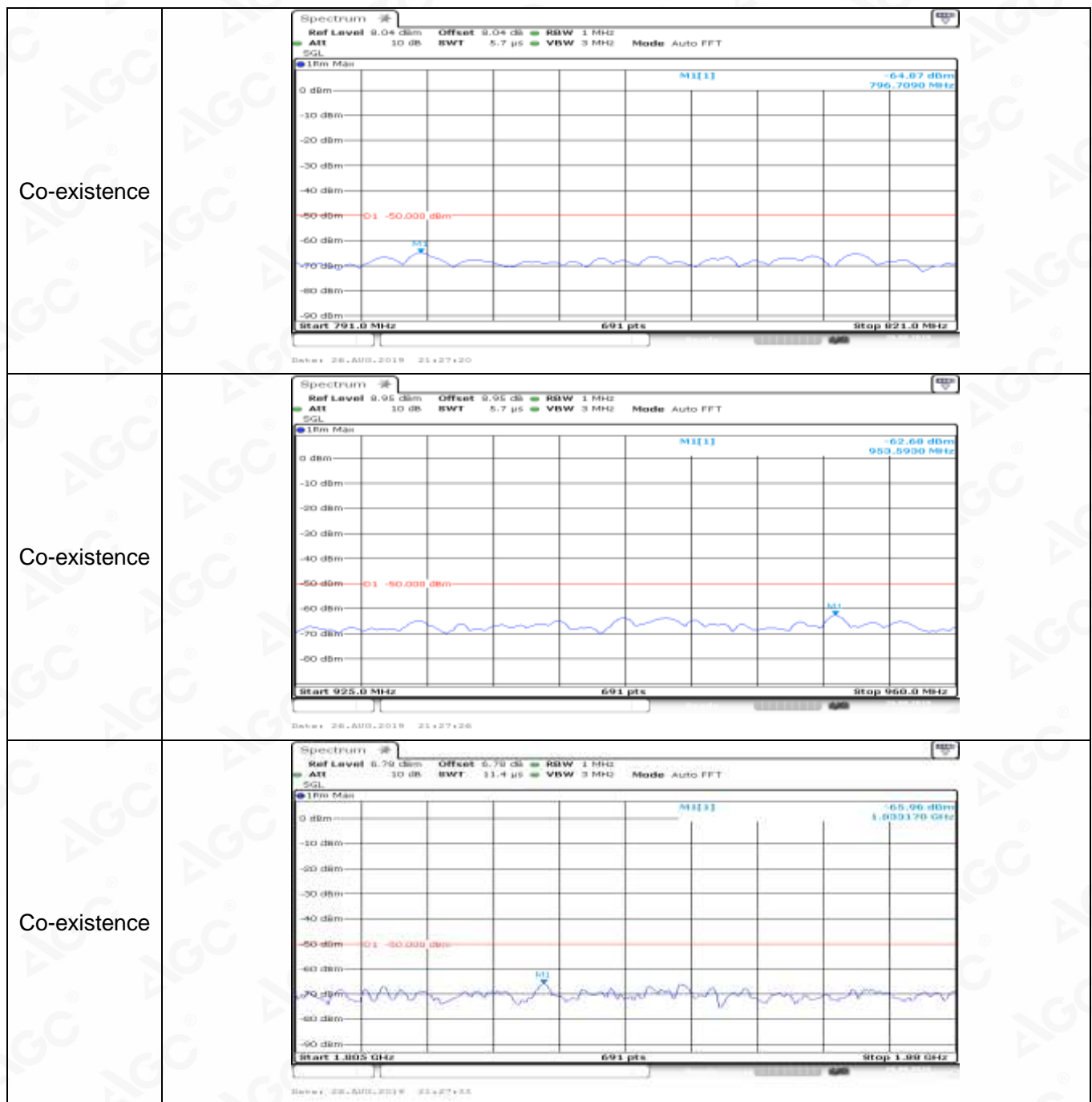


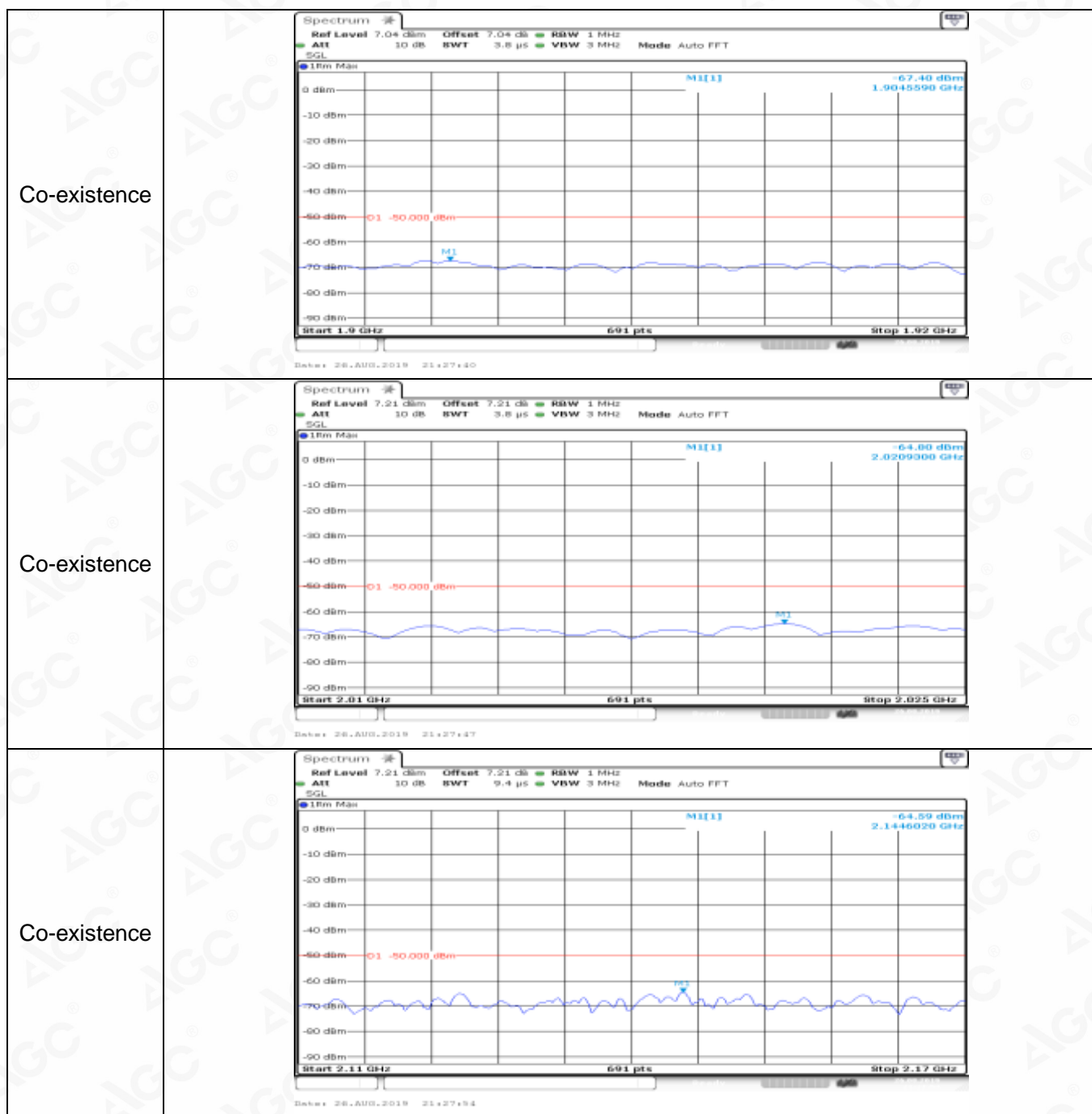


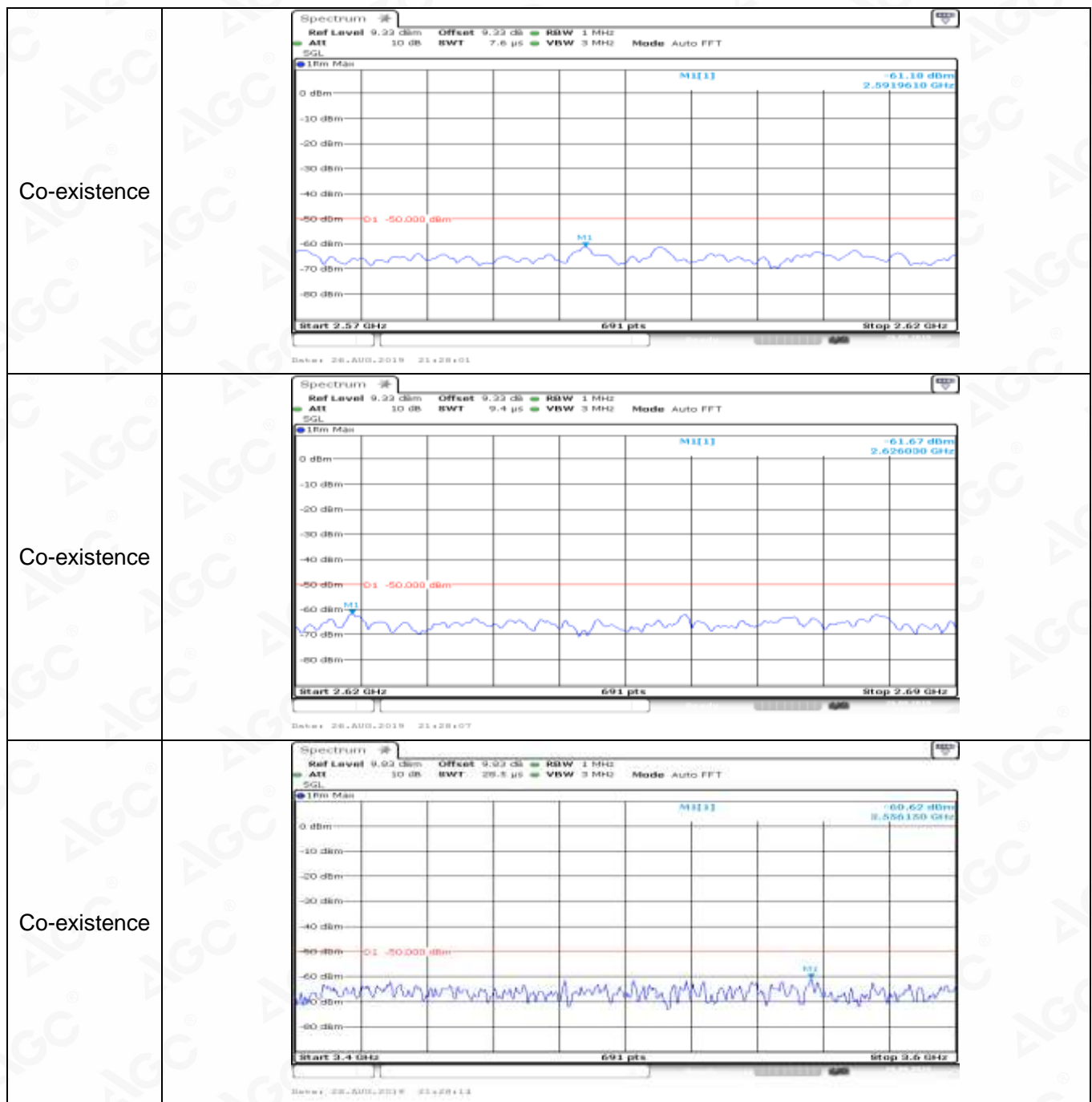
Co-existence	
Co-existence	
Co-existence	
Additional	NA

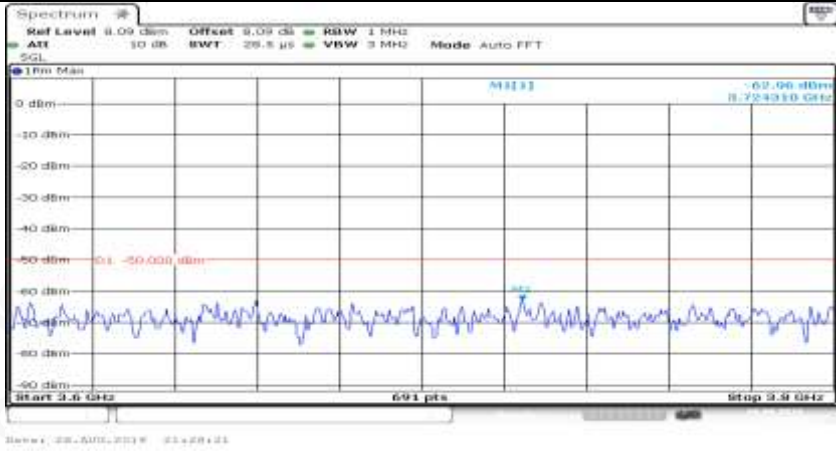


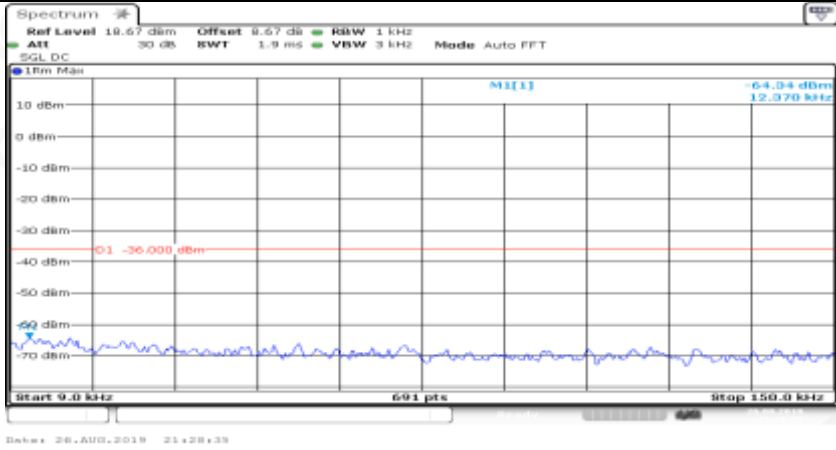
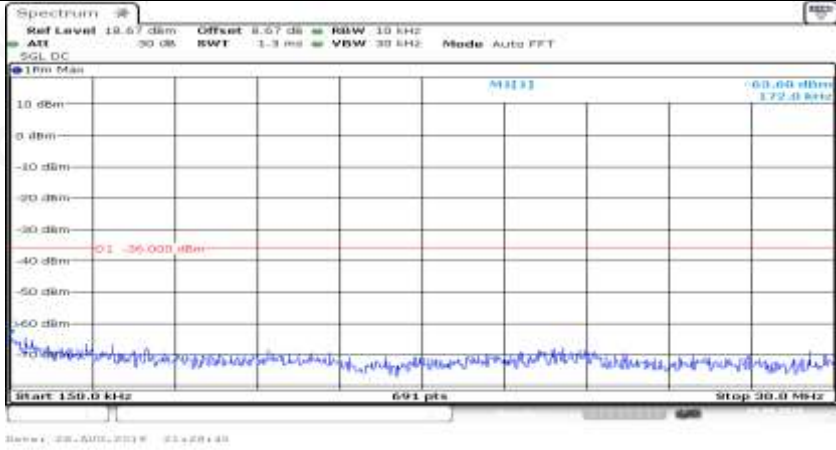
General	
General	
General	

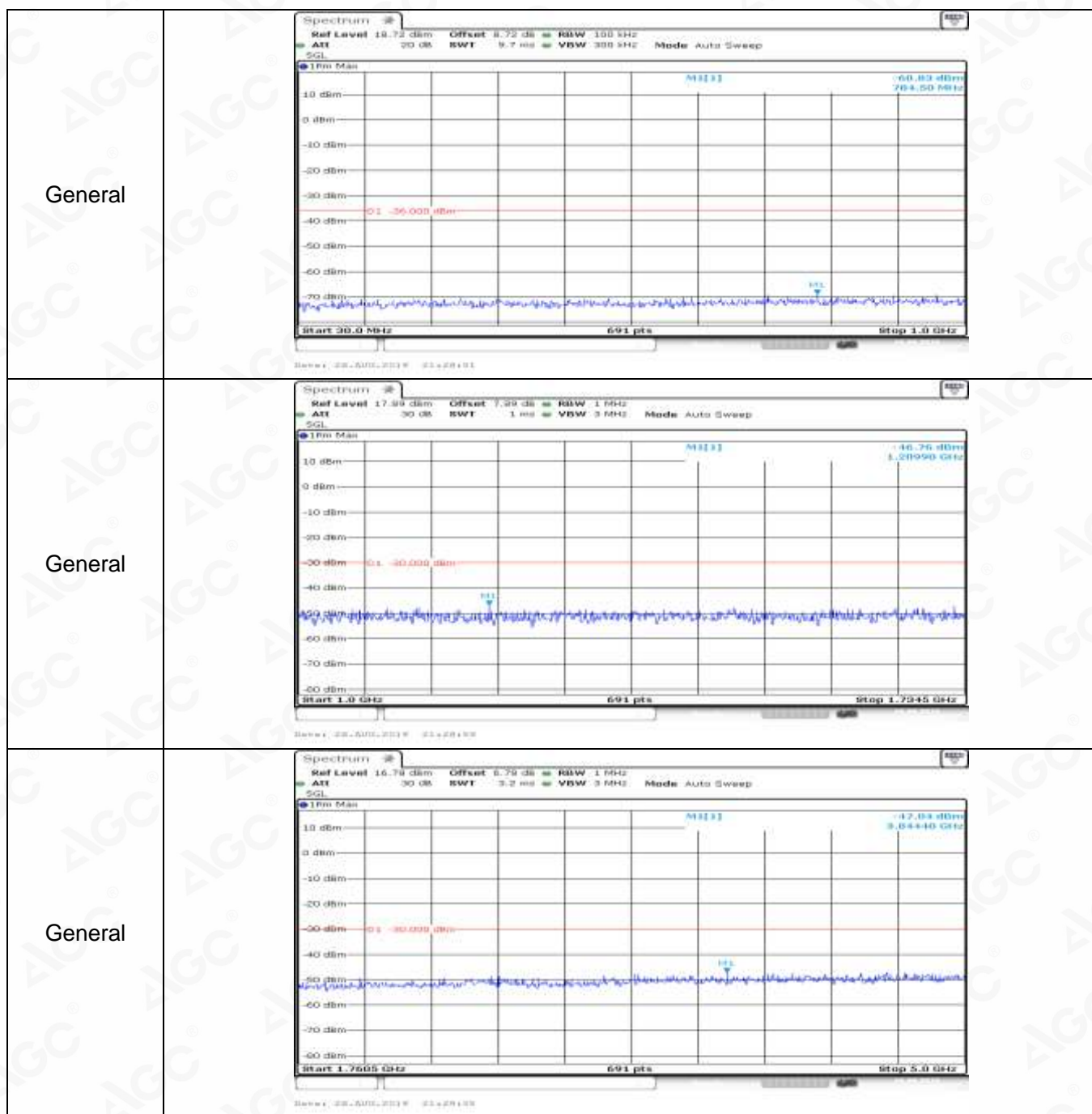


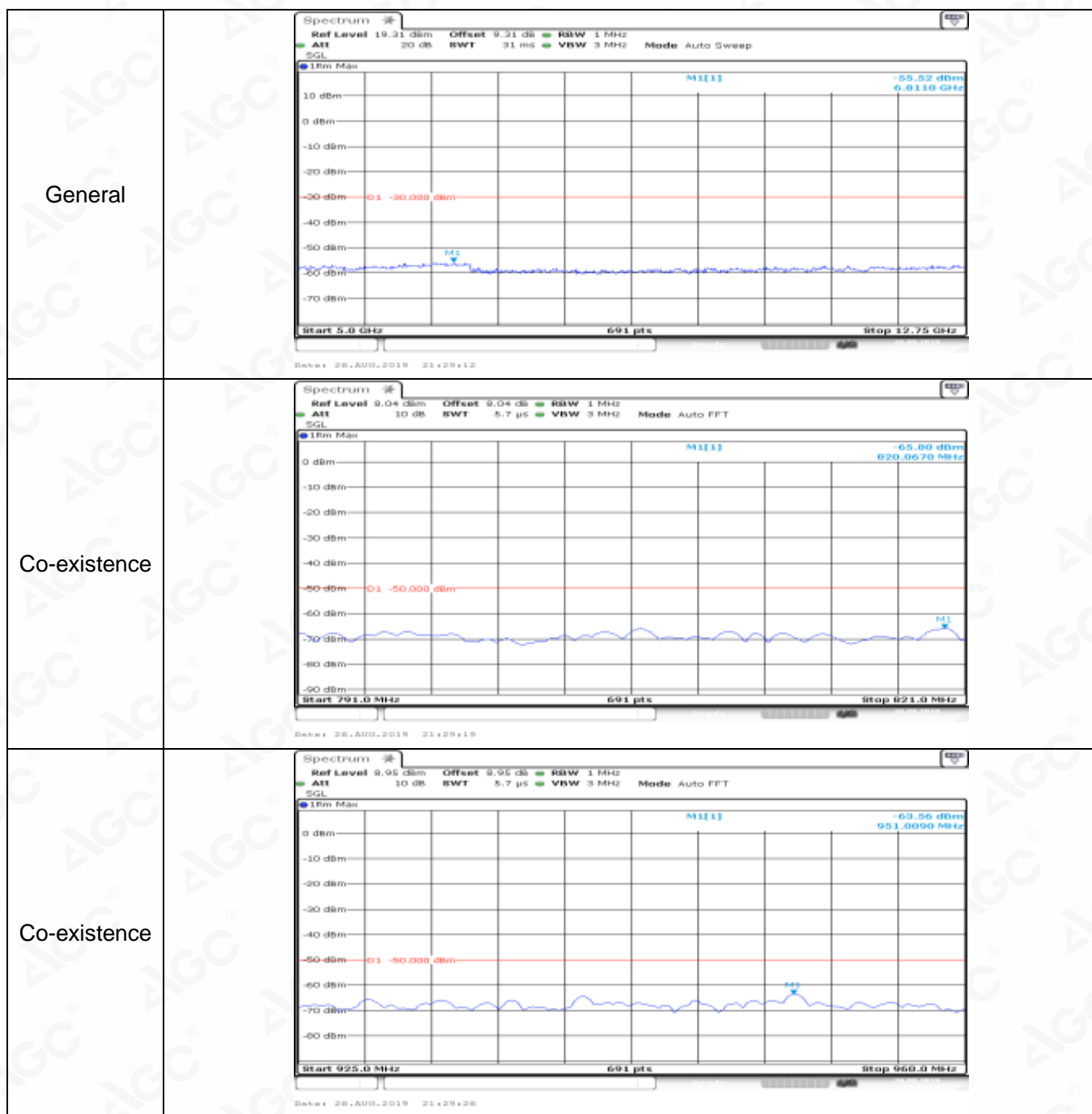


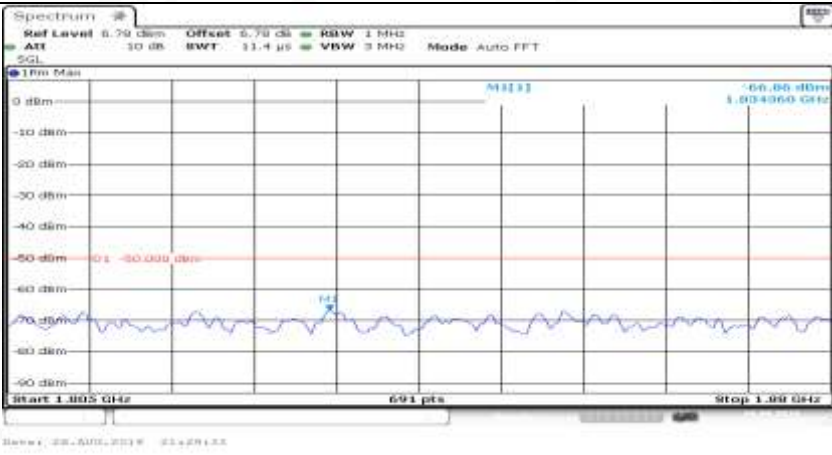
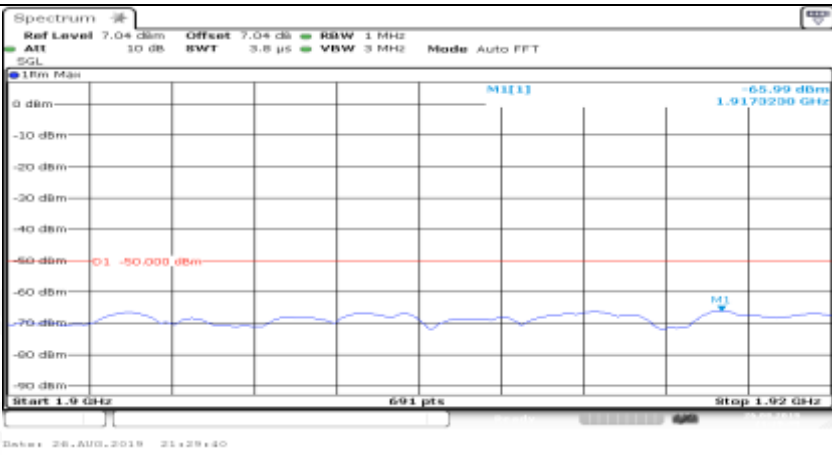
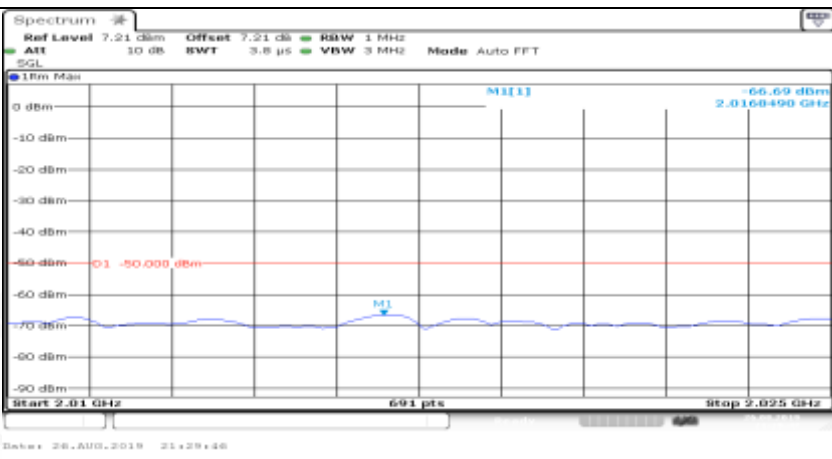


Co-existence	
Additional	NA

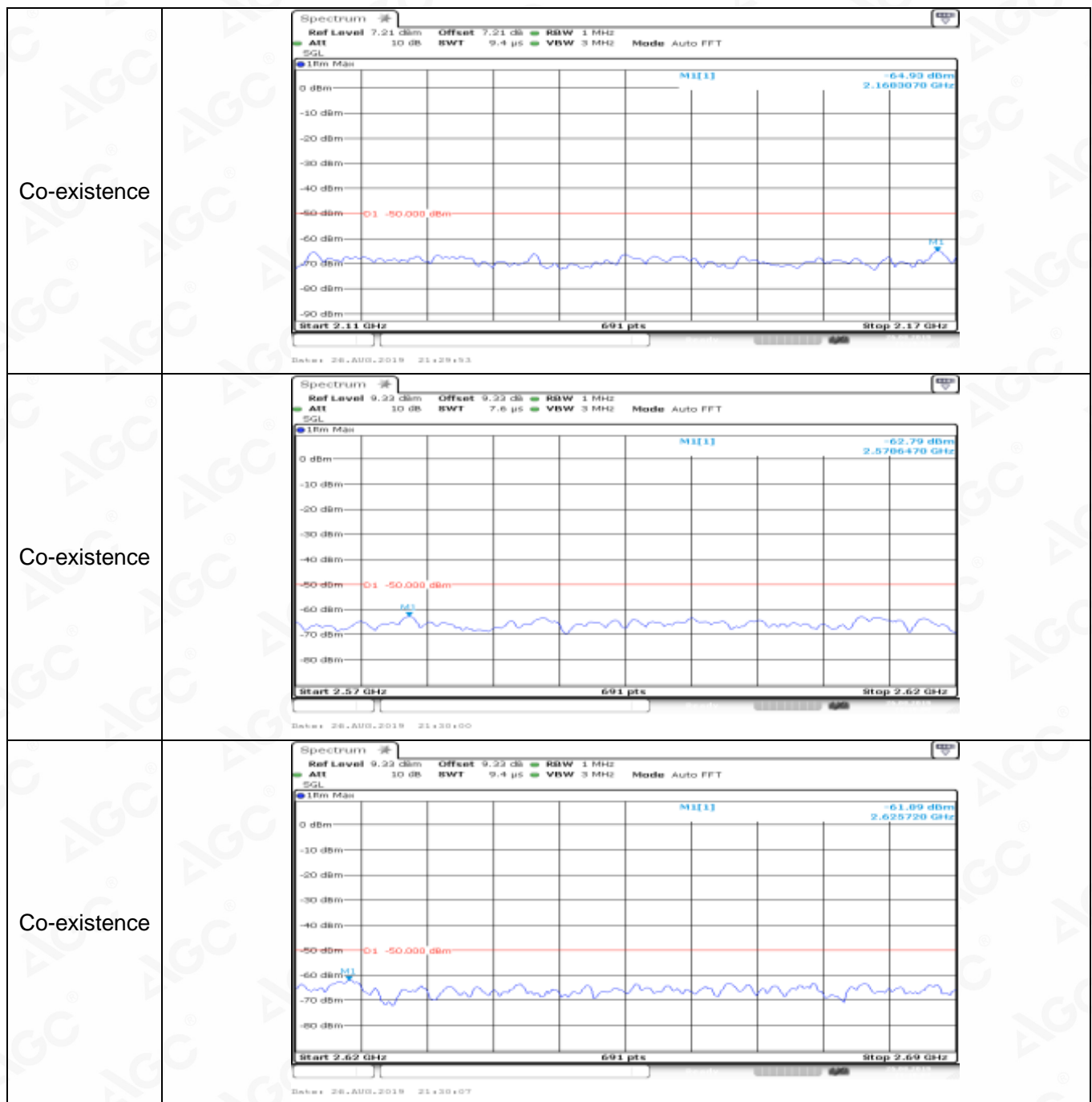
Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	
General	

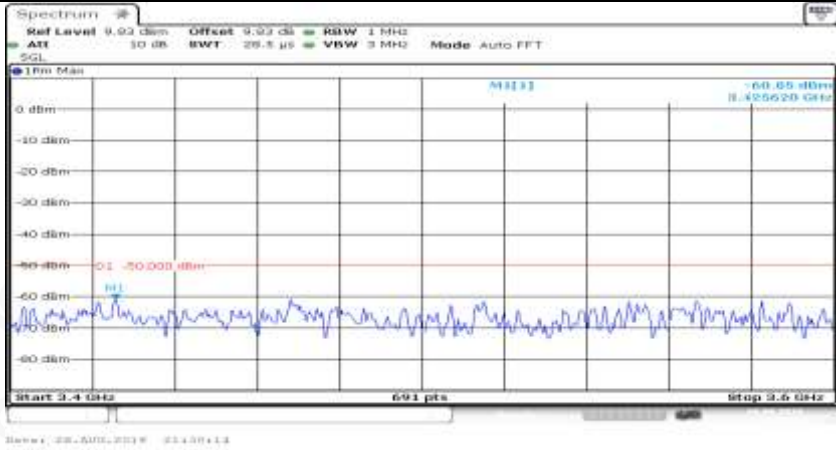
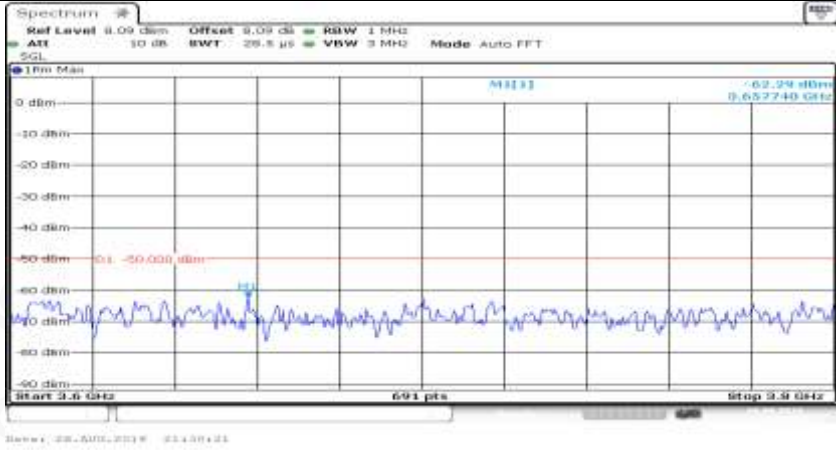


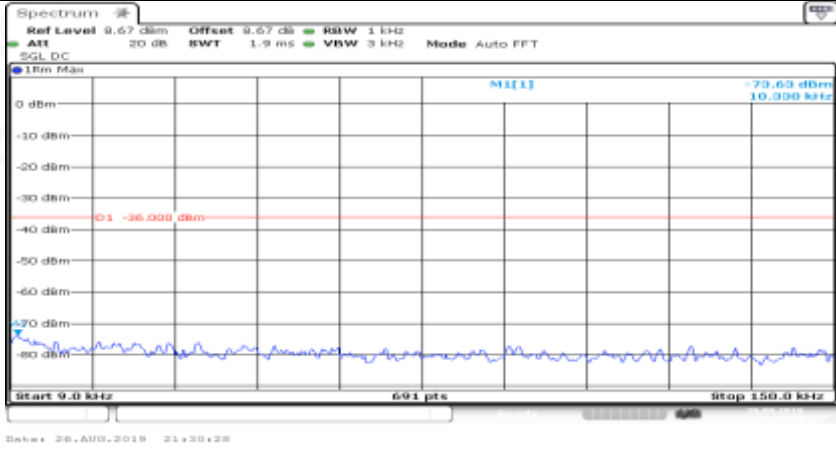


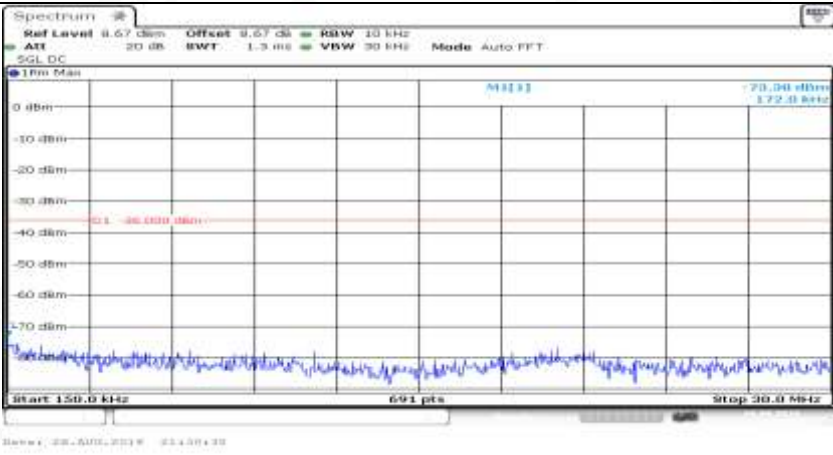
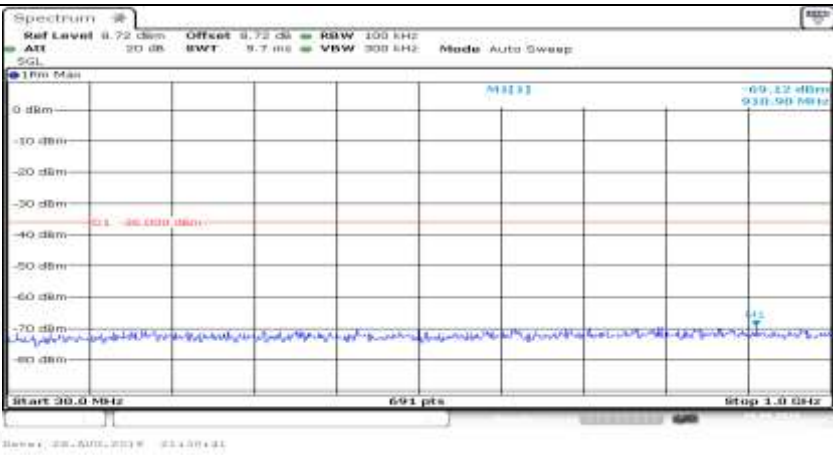
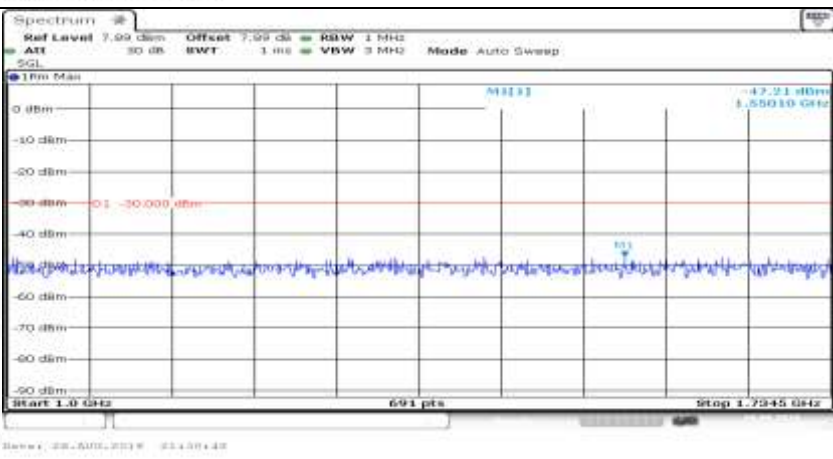
Co-existence	
Co-existence	
Co-existence	

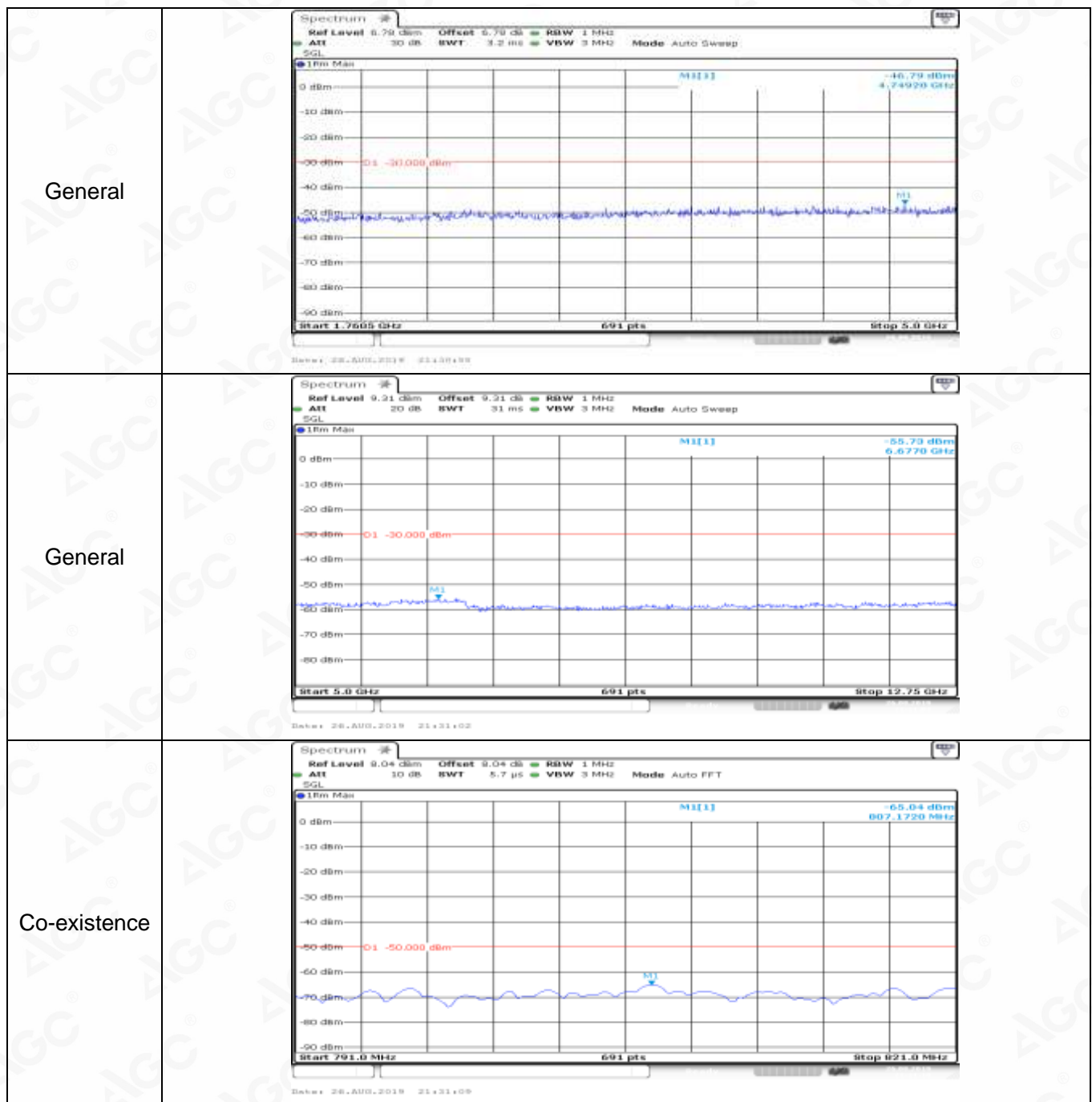


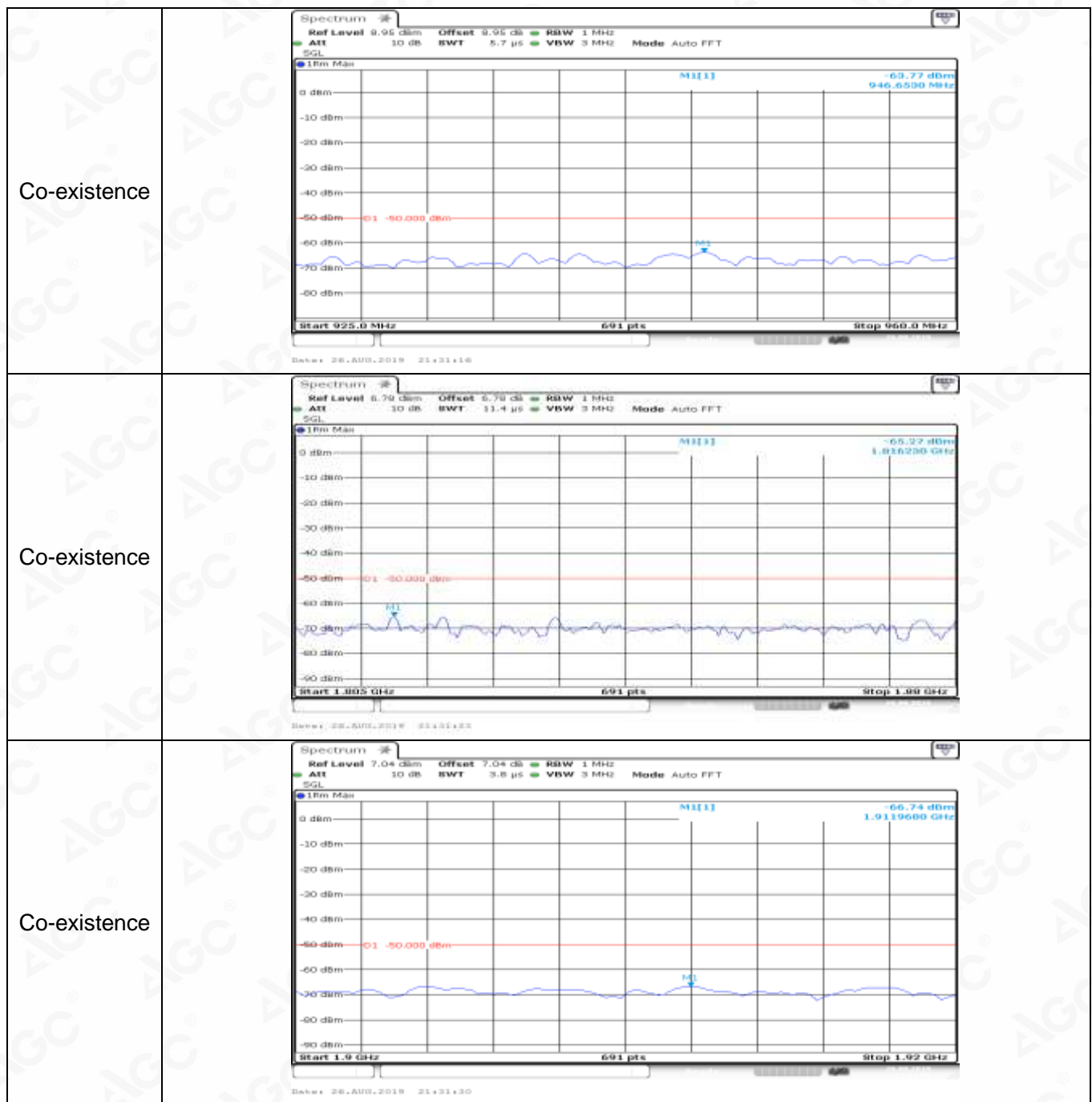


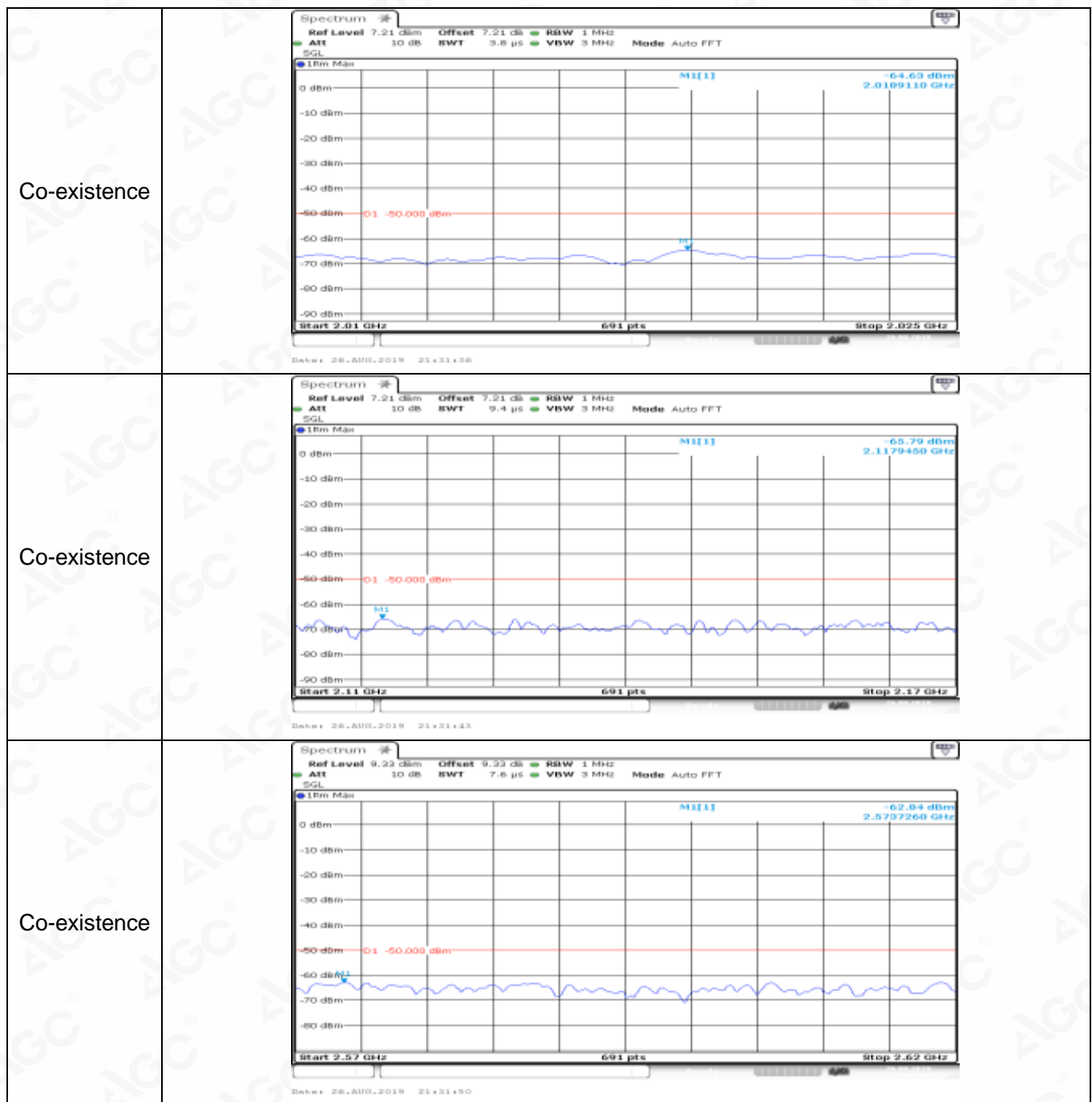
Co-existence	
Co-existence	
Additional	NA

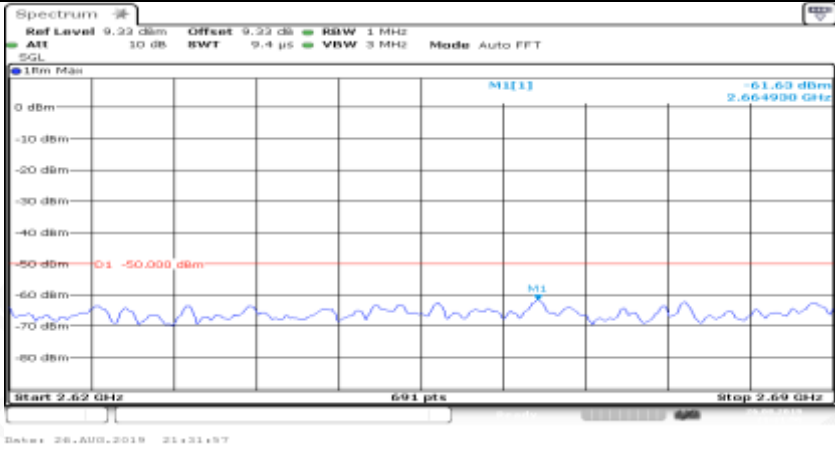
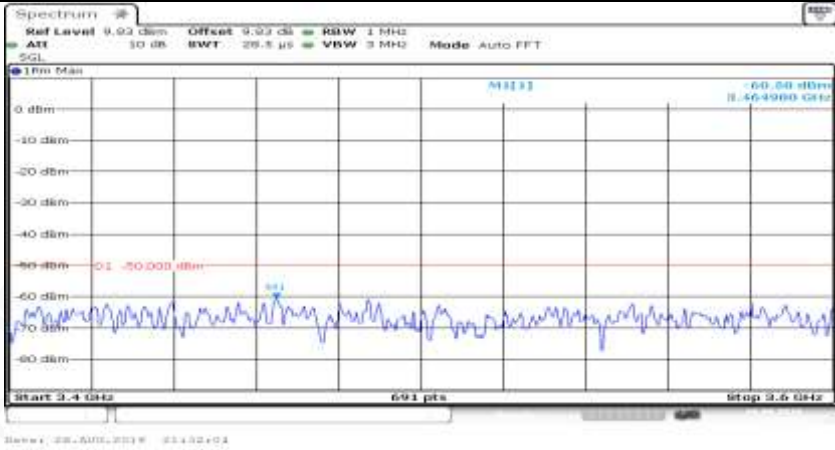
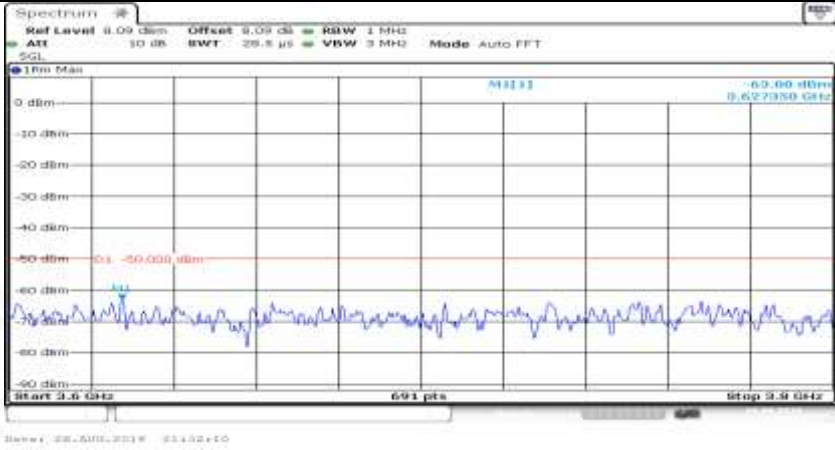
Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#max	
General	

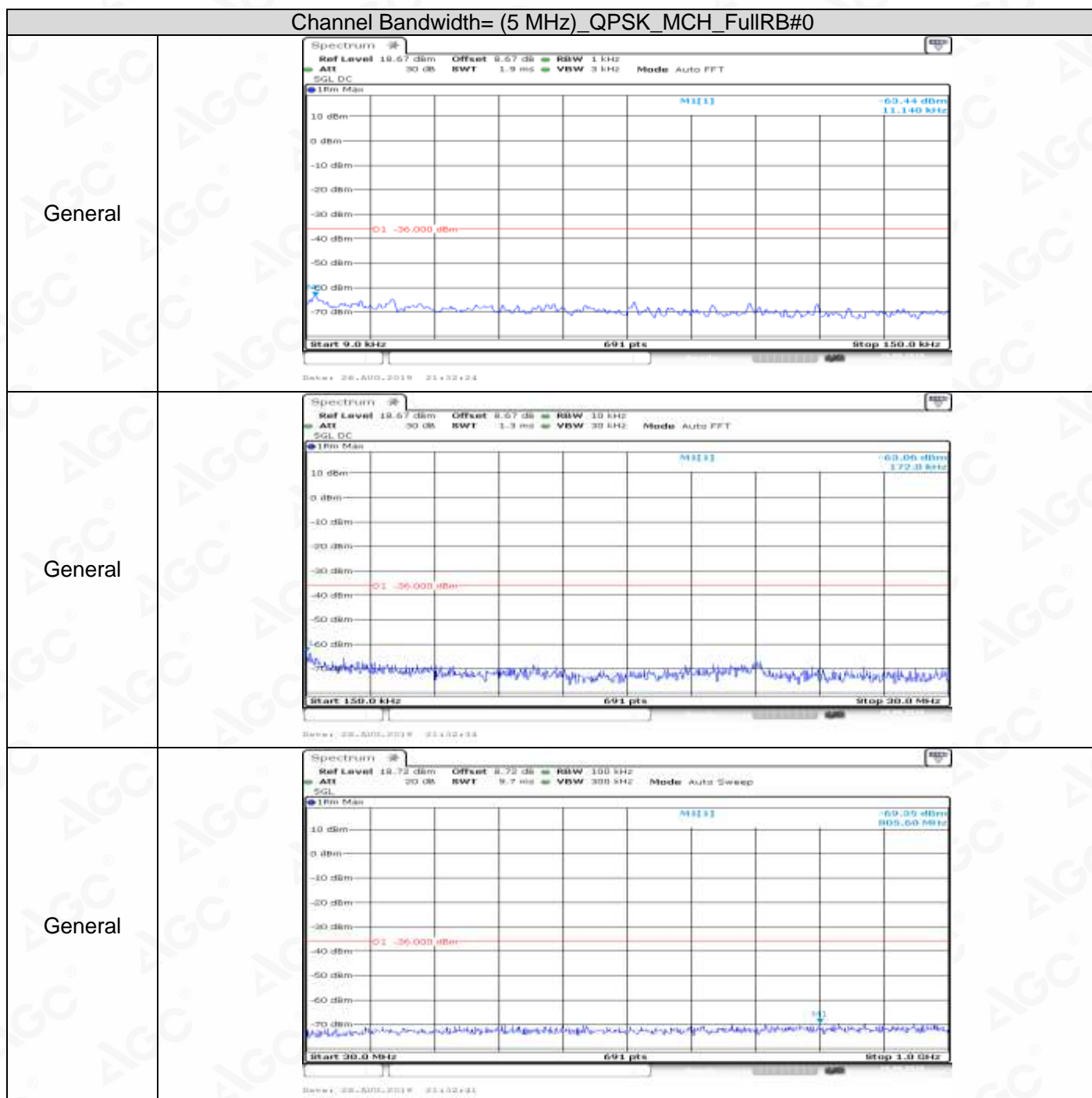
General	
General	
General	

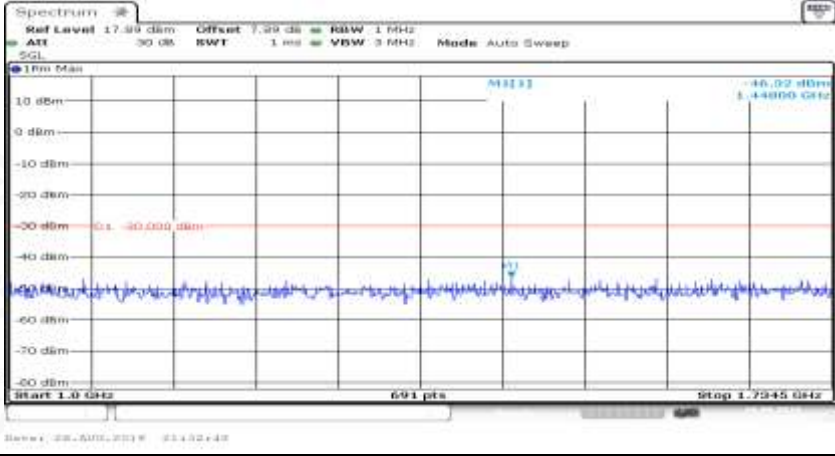
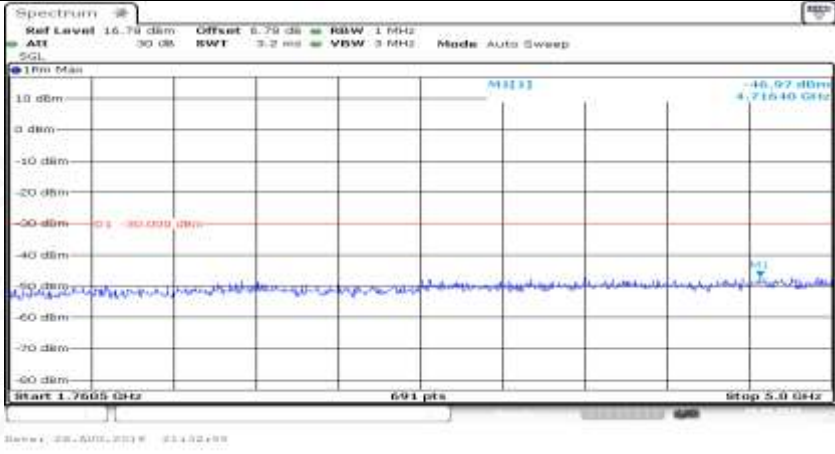
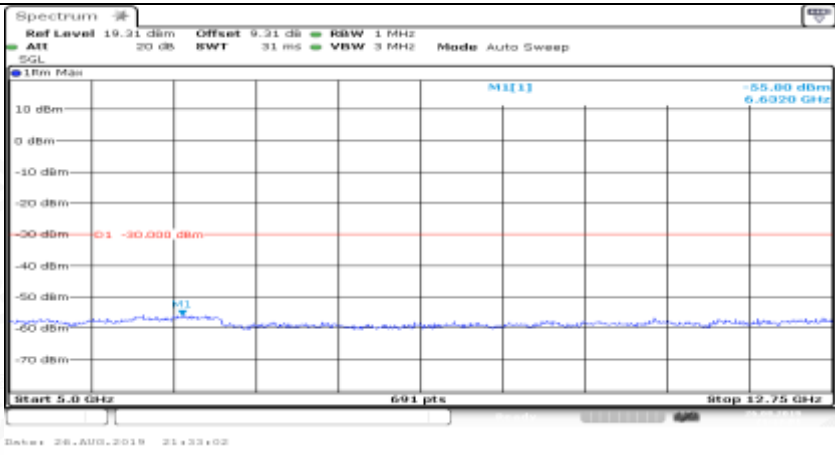



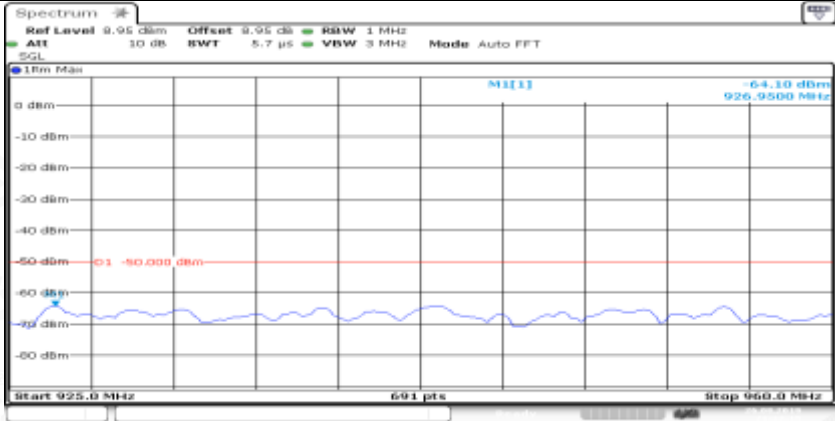
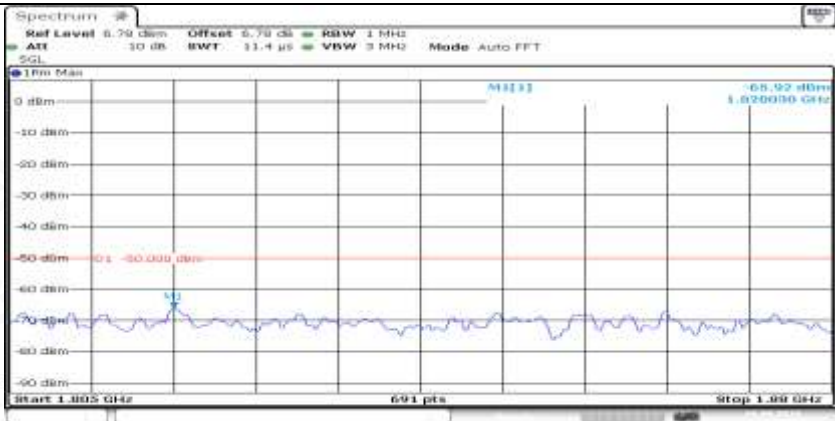


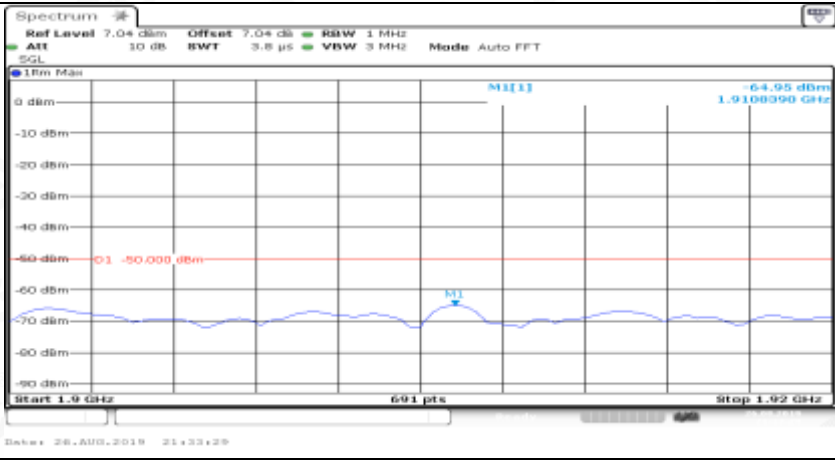
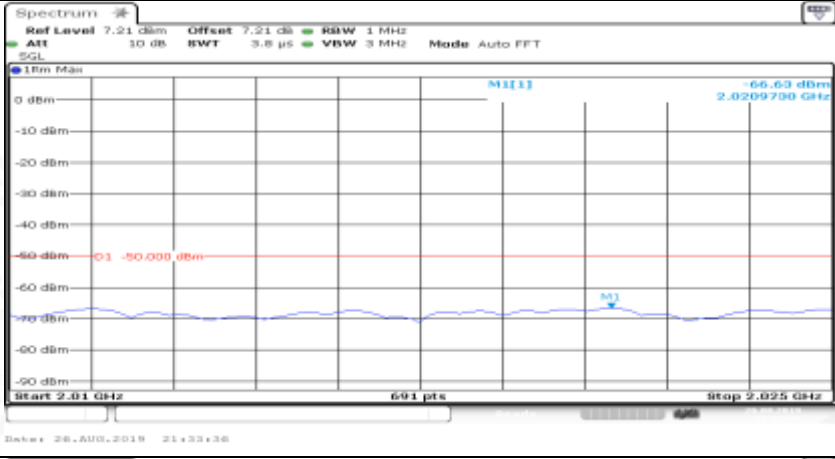
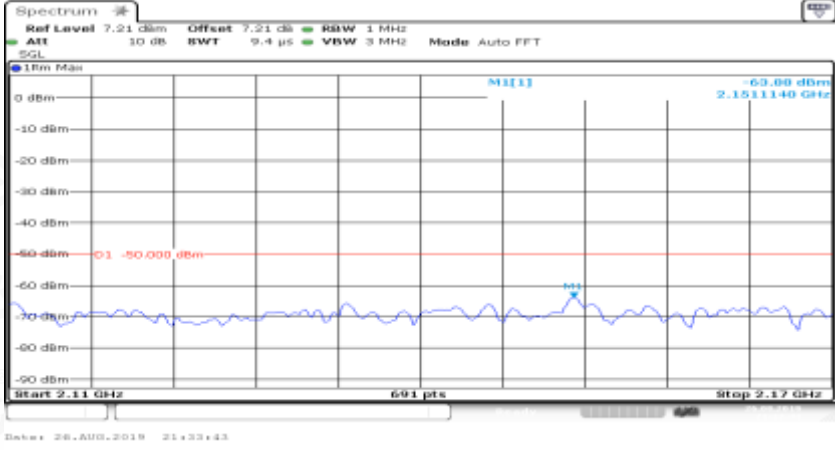


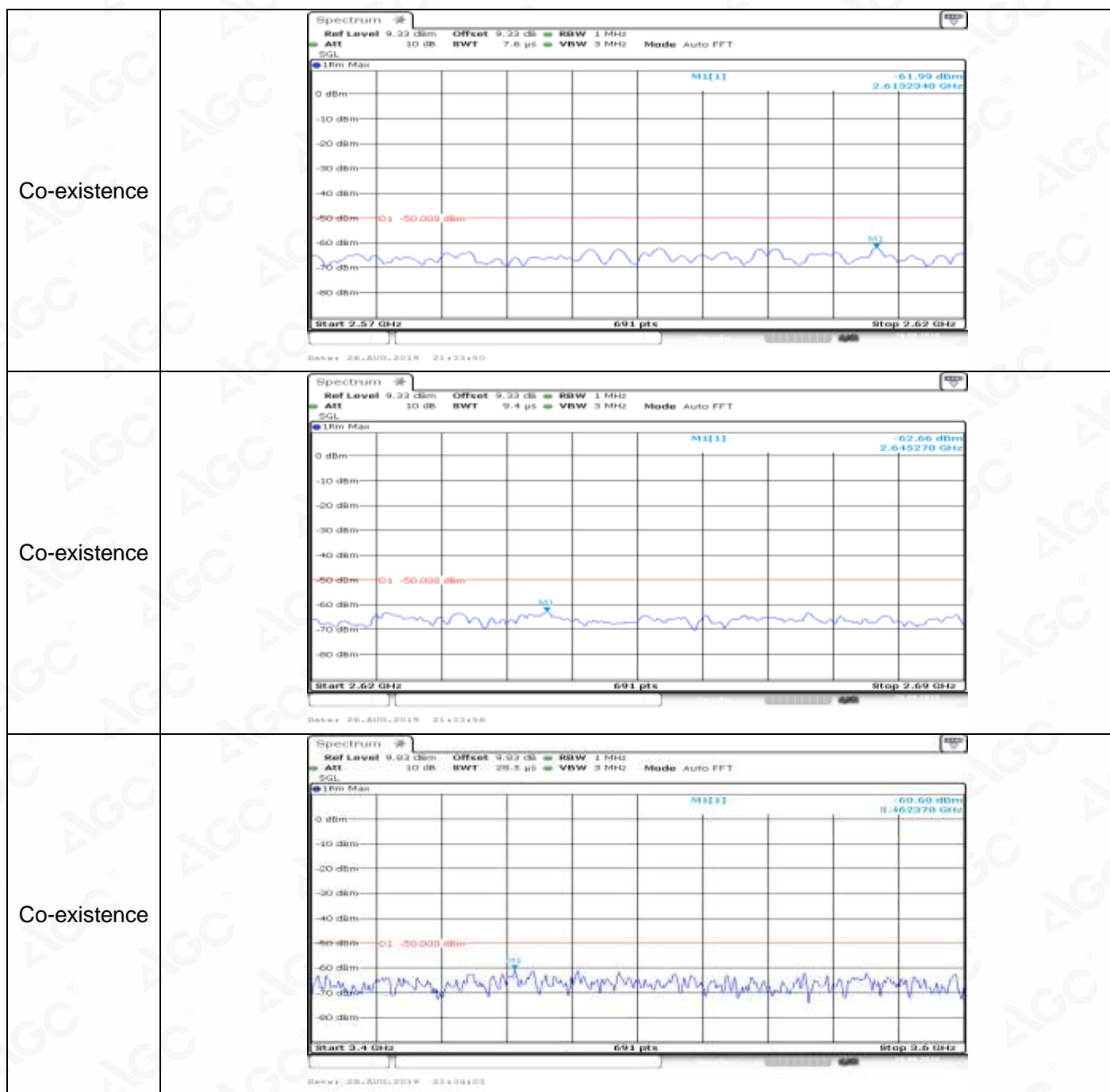
Co-existence	
Co-existence	
Co-existence	
Additional	NA

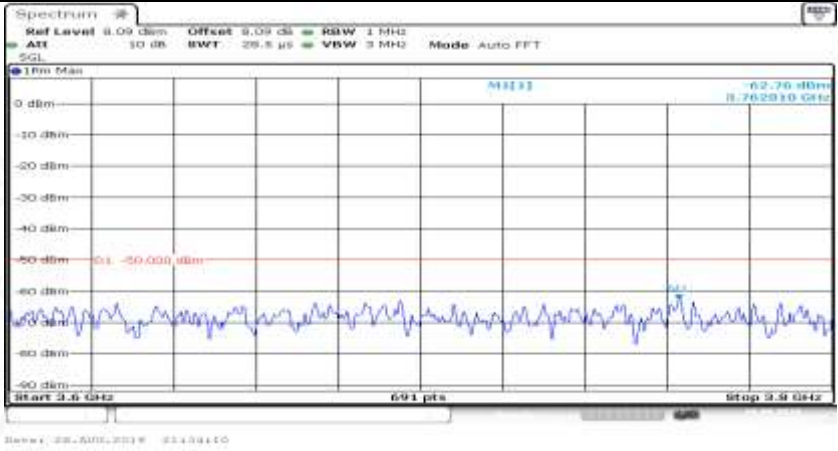


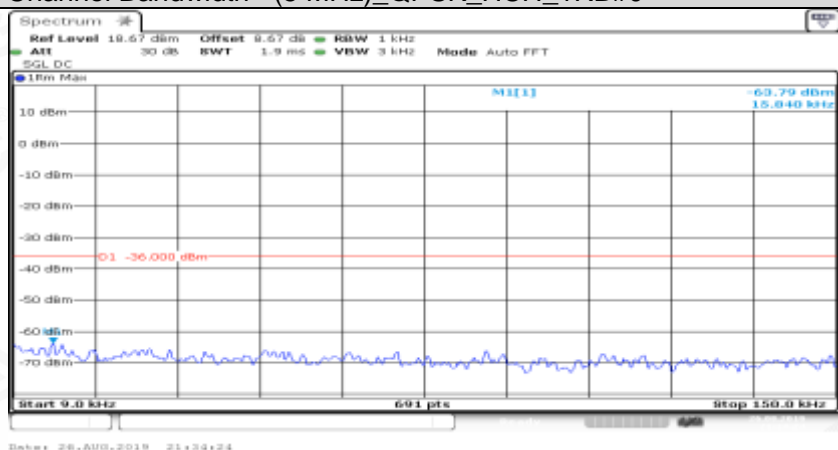
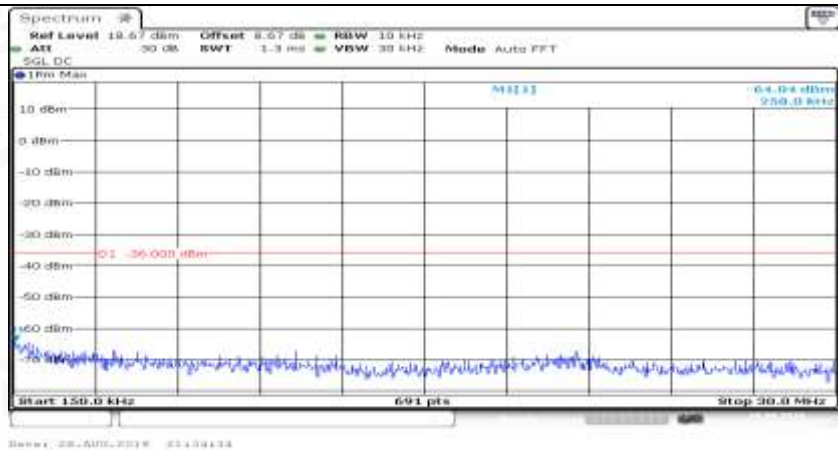
General	
General	
General	

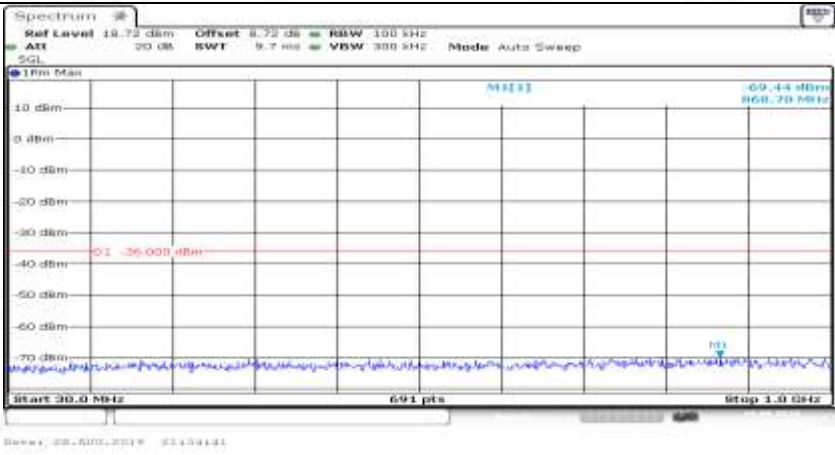
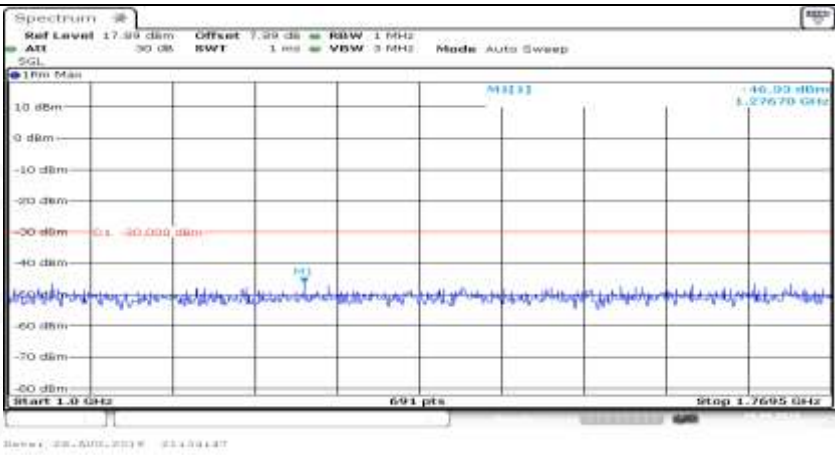
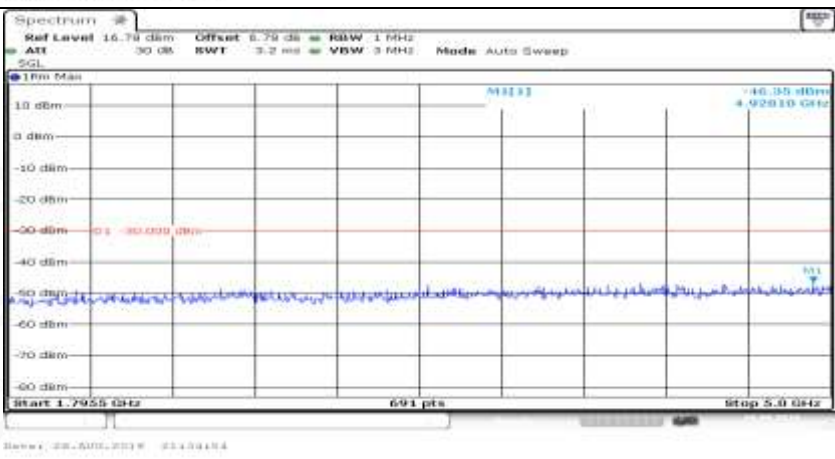
Co-existence	 <p>Ref Level 9.04 dBm Offset 9.04 dB RBW 1 MHz ATT 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -64.19 dBm 807.9100 MHz</p> <p>Start 791.0 MHz 691 pts Stop 821.0 MHz</p> <p>Date: 28.AUG.2019 21:33:09</p>
Co-existence	 <p>Ref Level 9.95 dBm Offset 9.95 dB RBW 1 MHz ATT 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -64.30 dBm 926.9500 MHz</p> <p>Start 925.0 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 28.AUG.2019 21:33:19</p>
Co-existence	 <p>Ref Level 6.79 dBm Offset 6.79 dB RBW 1 MHz ATT 10 dB BW 11.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -65.92 dBm 1.820000 GHz</p> <p>Start 1.805 GHz 691 pts Stop 1.835 GHz</p> <p>Date: 28.AUG.2019 21:33:22</p>

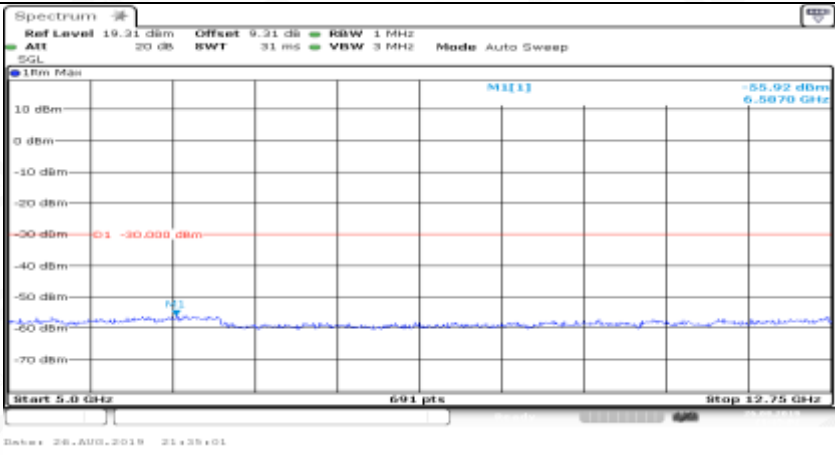
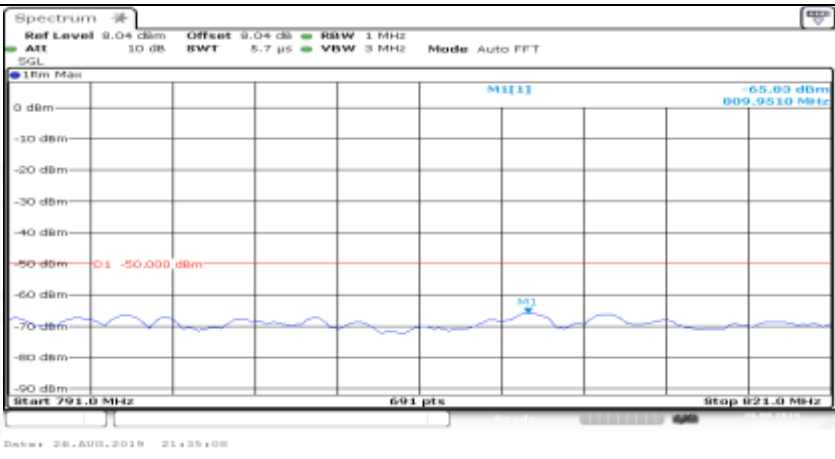
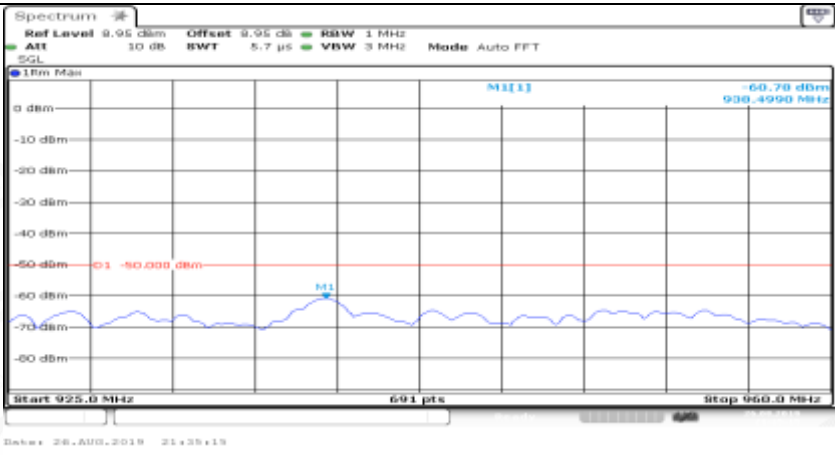
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz</p> <p>Att 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>1Rm Max</p> <p>M1[1] -64.95 dBm 1.9108390 GHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 28.AUG.2019 21:33:29</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz</p> <p>Att 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>1Rm Max</p> <p>M1[1] -66.63 dBm 2.0209790 GHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 2.0 GHz 691 pts Stop 2.025 GHz</p> <p>Date: 28.AUG.2019 21:33:30</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz</p> <p>Att 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>1Rm Max</p> <p>M1[1] -63.60 dBm 2.1511140 GHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 2.1 GHz 691 pts Stop 2.17 GHz</p> <p>Date: 28.AUG.2019 21:33:43</p>


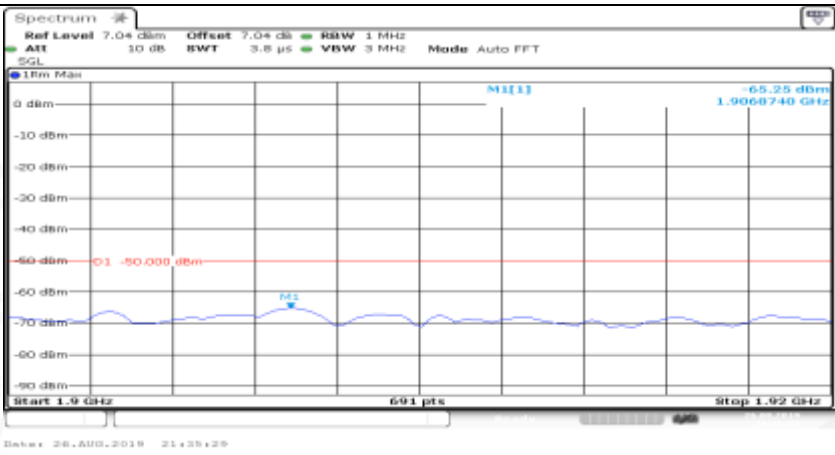
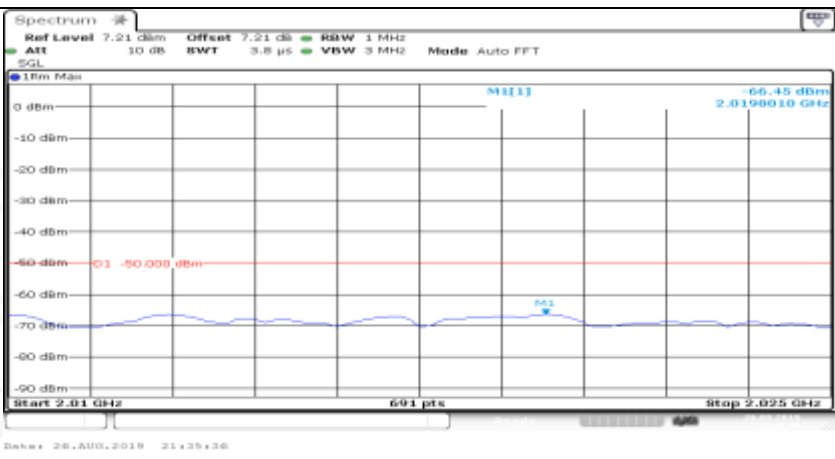


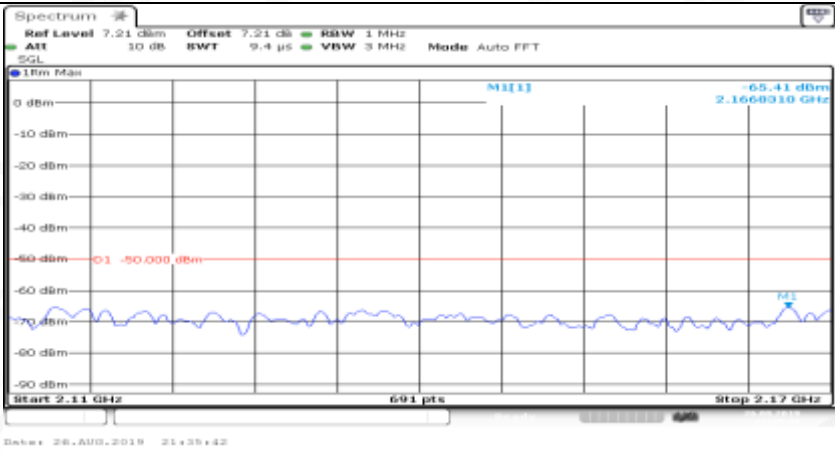
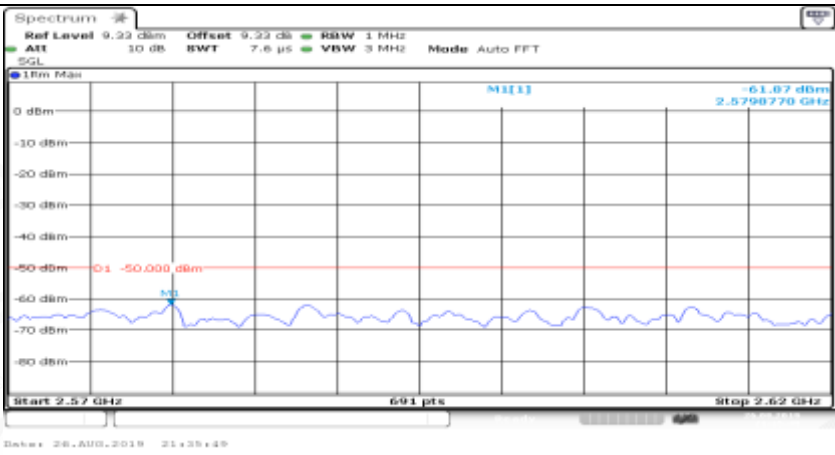
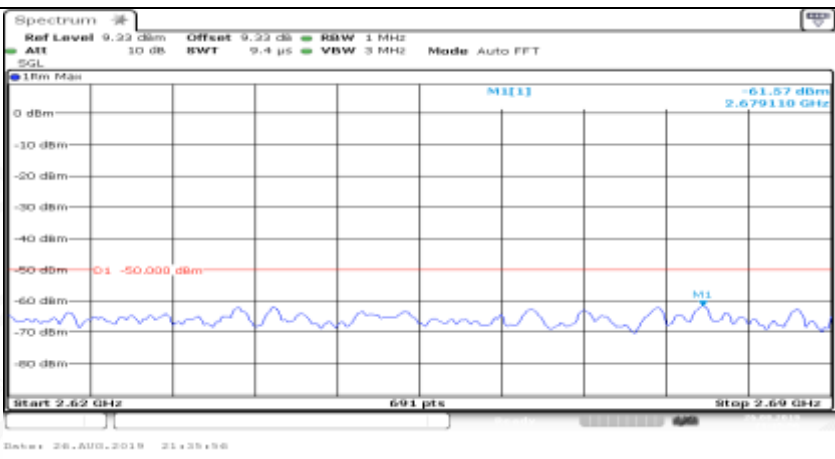
Co-existence	
Additional	NA


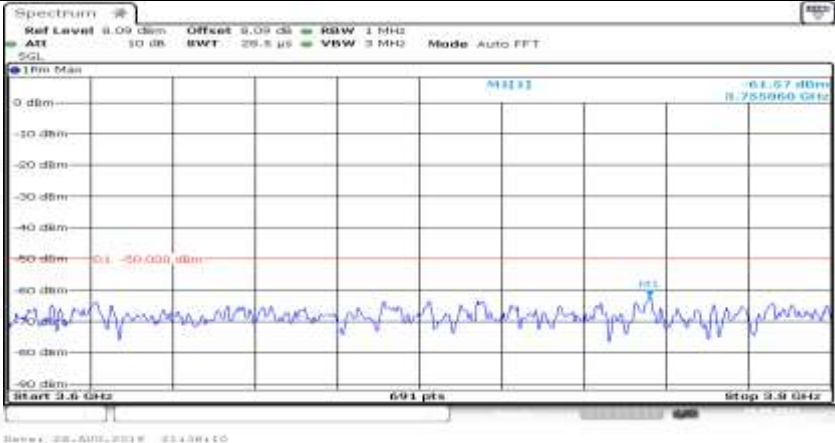
Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0	
General	
General	

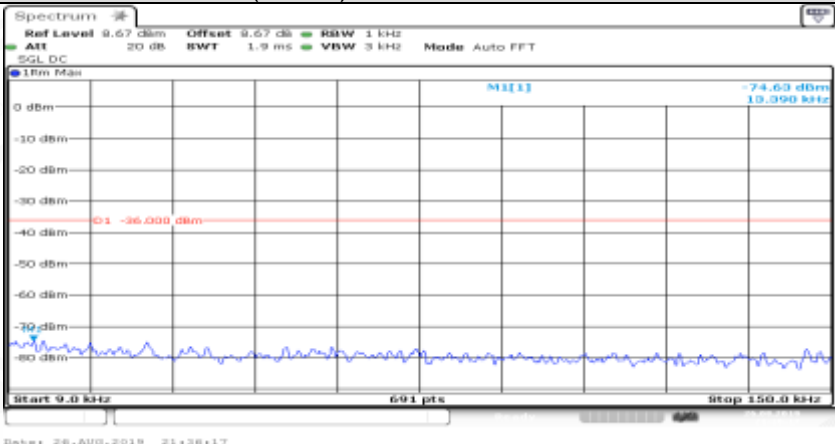
General	
General	
General	

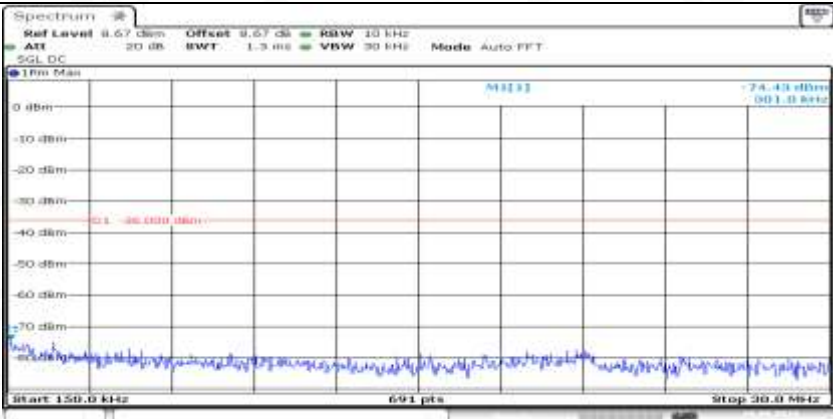
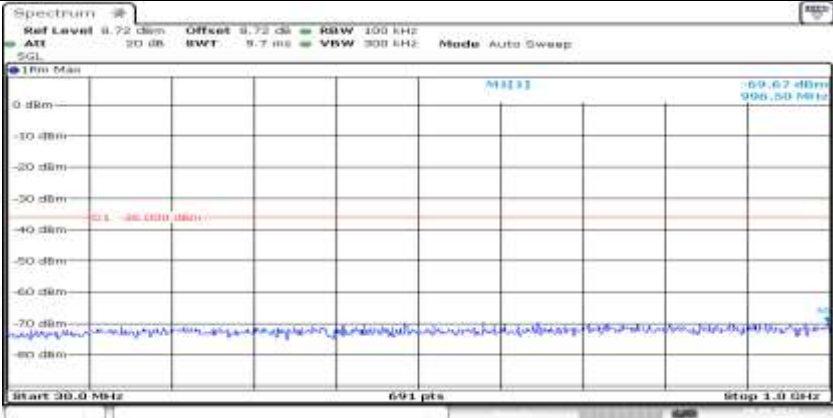
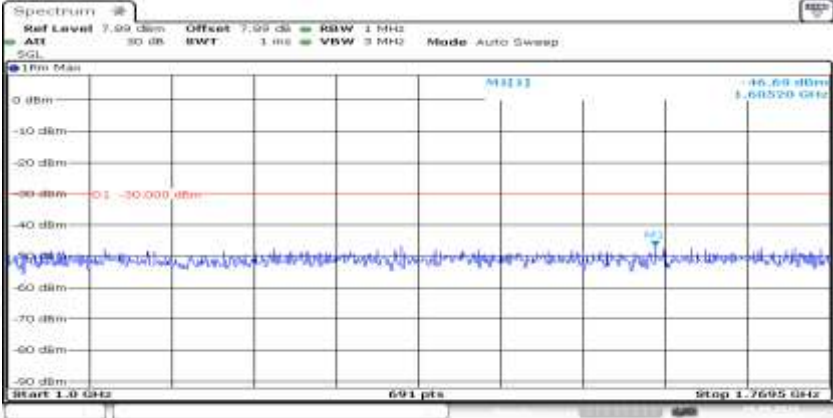
General	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

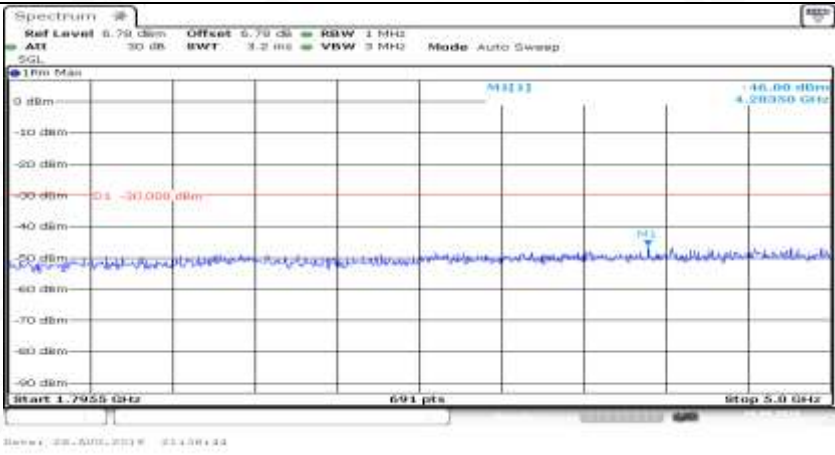
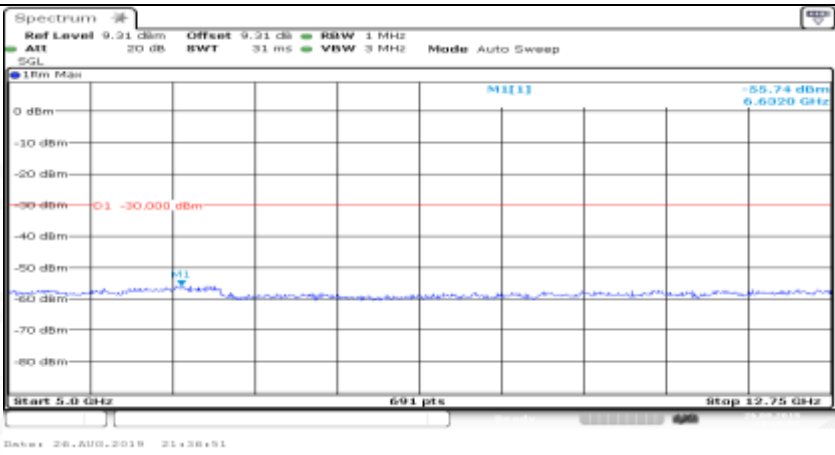
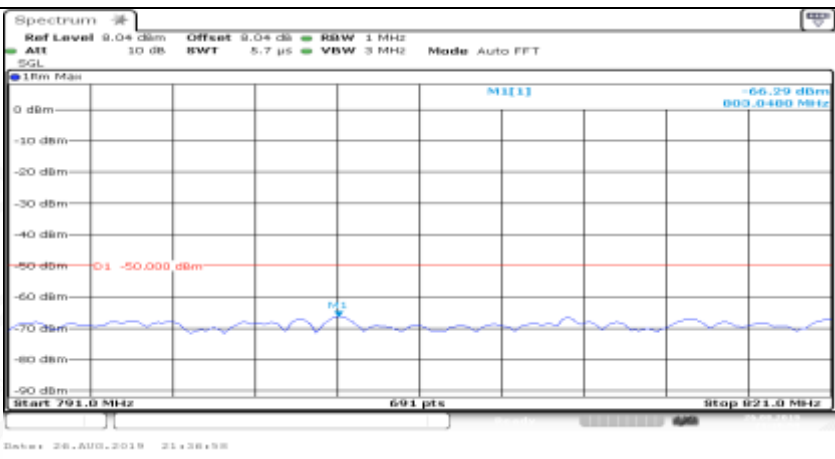
Co-existence	
Co-existence	
Co-existence	

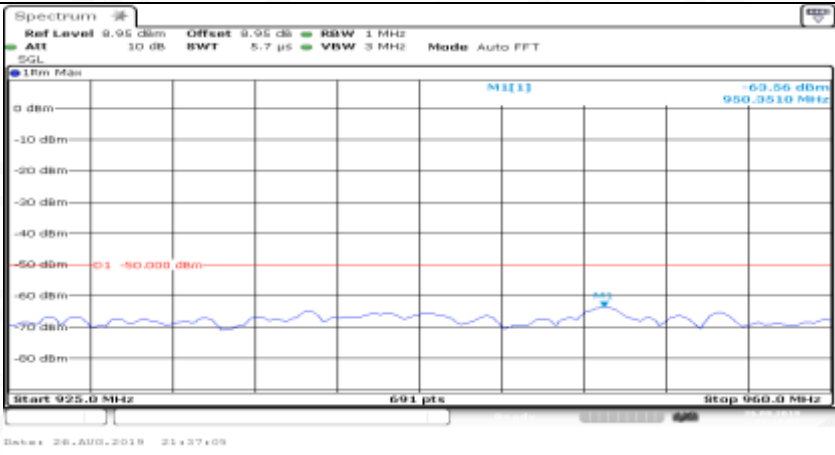

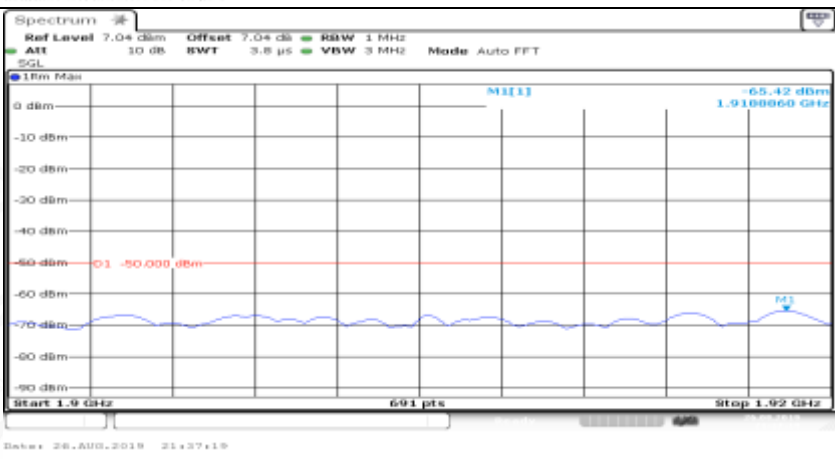
Co-existence	
Co-existence	
Additional	NA

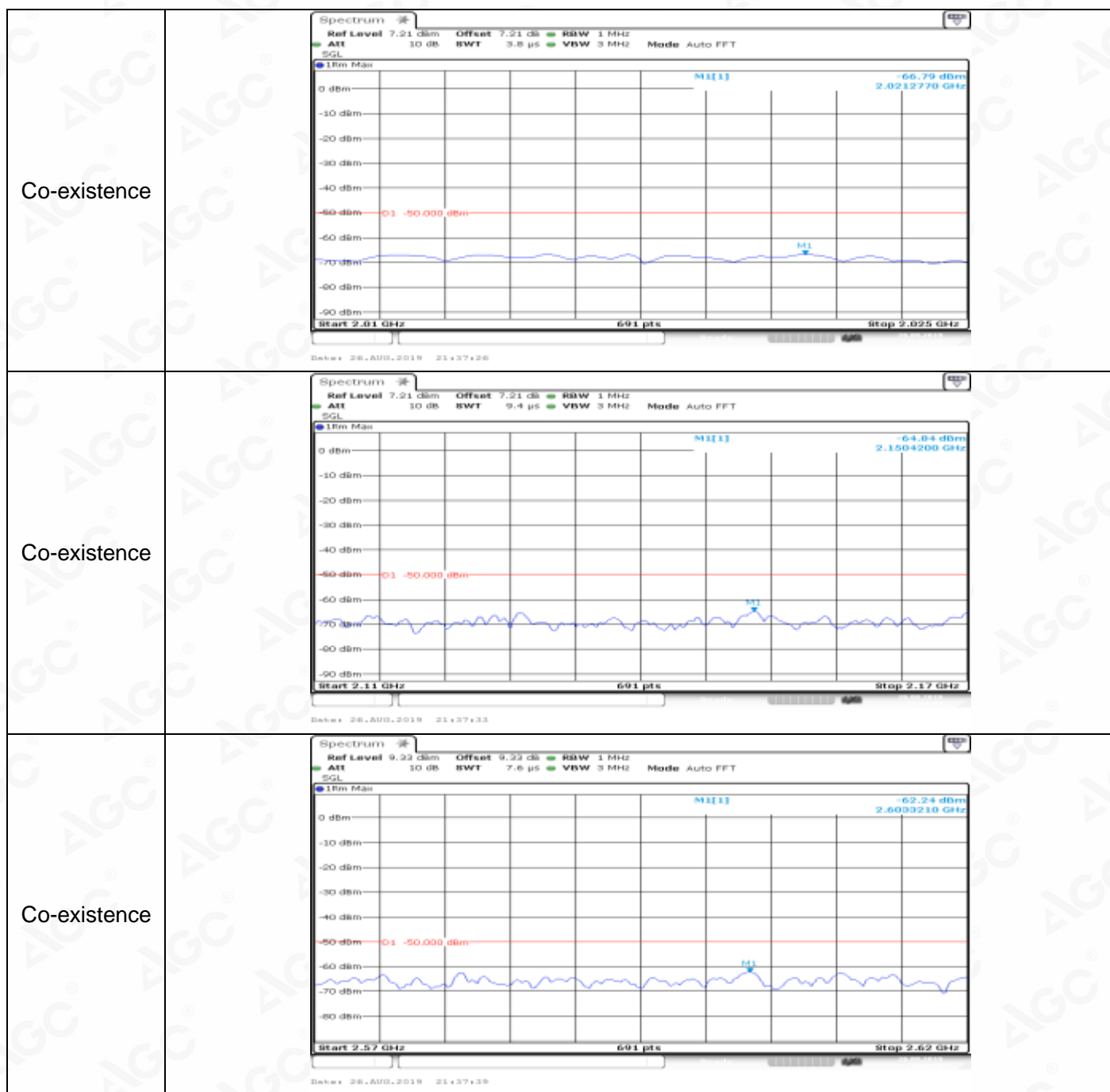
Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#max	
General	

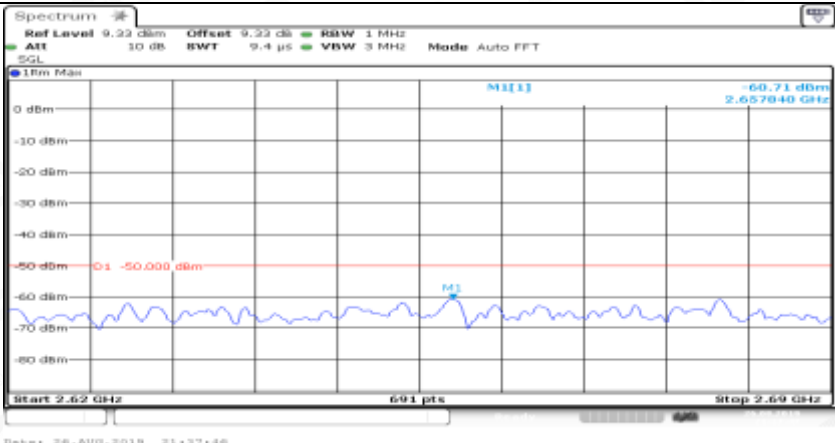

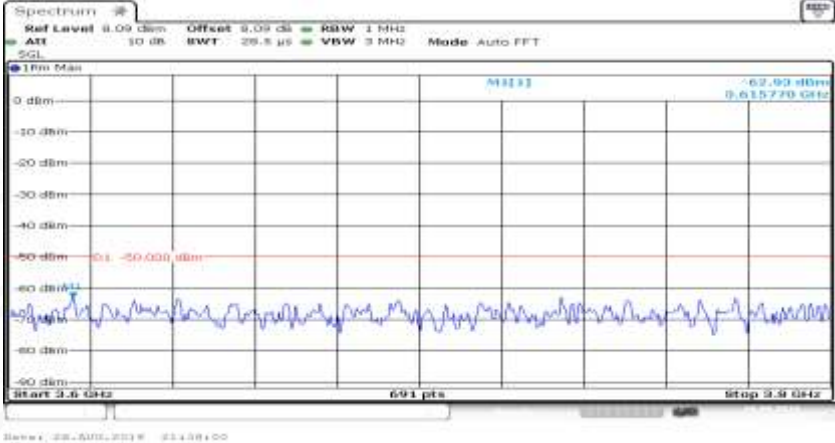
General	 <p>Spectrum plot showing a signal at -74.40 dBm. The plot has a frequency range from 150.0 kHz to 30.0 MHz. The y-axis represents power in dBm from 0 to -80. The x-axis represents frequency in kHz. The signal is labeled 'M113'.</p>
General	 <p>Spectrum plot showing a signal at -69.67 dBm. The plot has a frequency range from 30.0 MHz to 1.0 GHz. The y-axis represents power in dBm from 0 to -80. The x-axis represents frequency in MHz. The signal is labeled 'M113'.</p>
General	 <p>Spectrum plot showing a signal at -46.60 dBm. The plot has a frequency range from 1.0 GHz to 1.7695 GHz. The y-axis represents power in dBm from 0 to -80. The x-axis represents frequency in GHz. The signal is labeled 'M113'.</p>

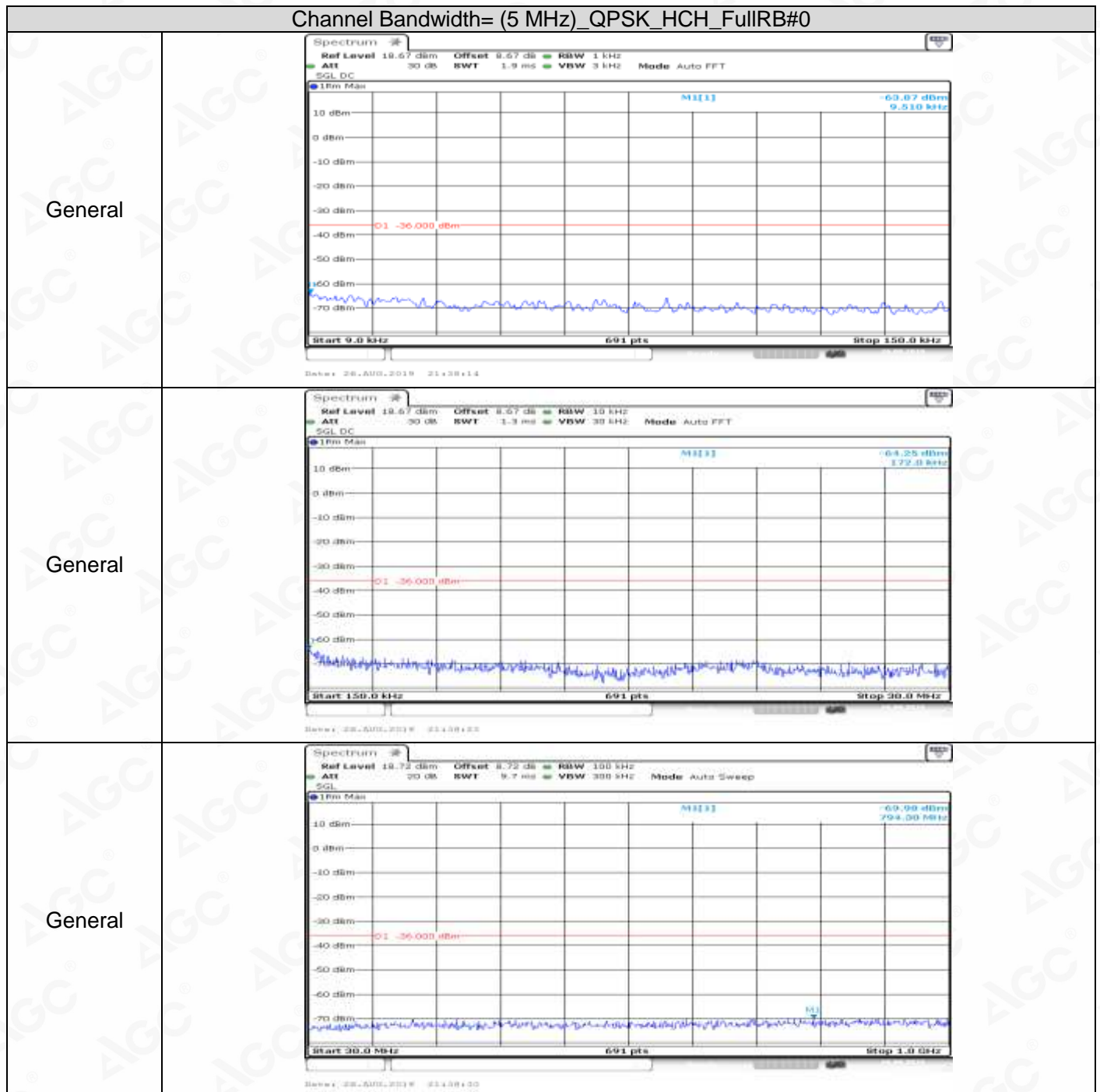


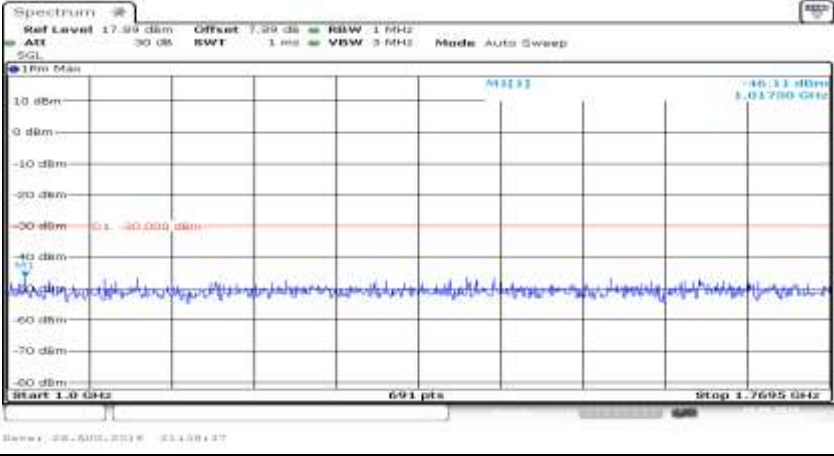
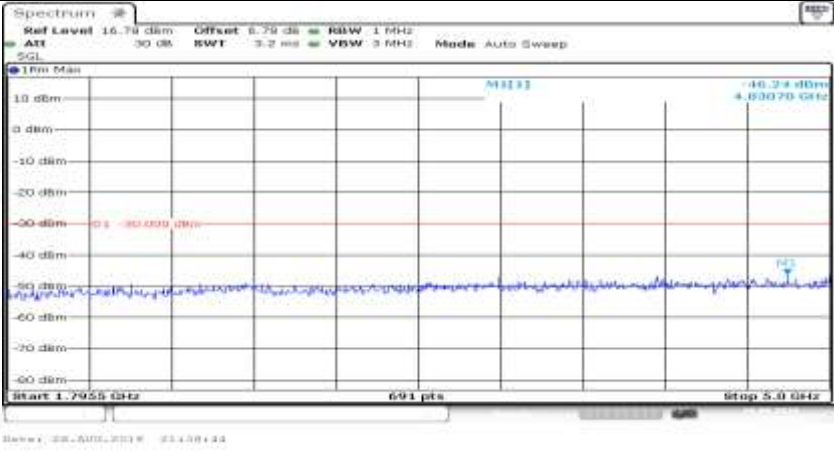
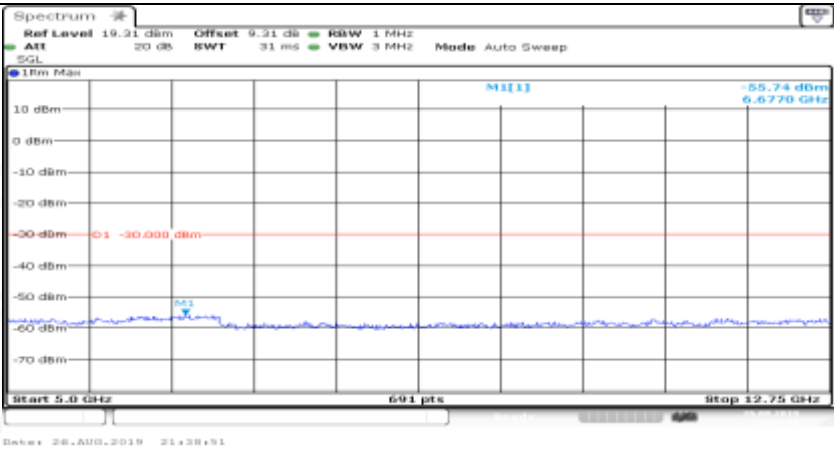
General	
General	
Co-existence	

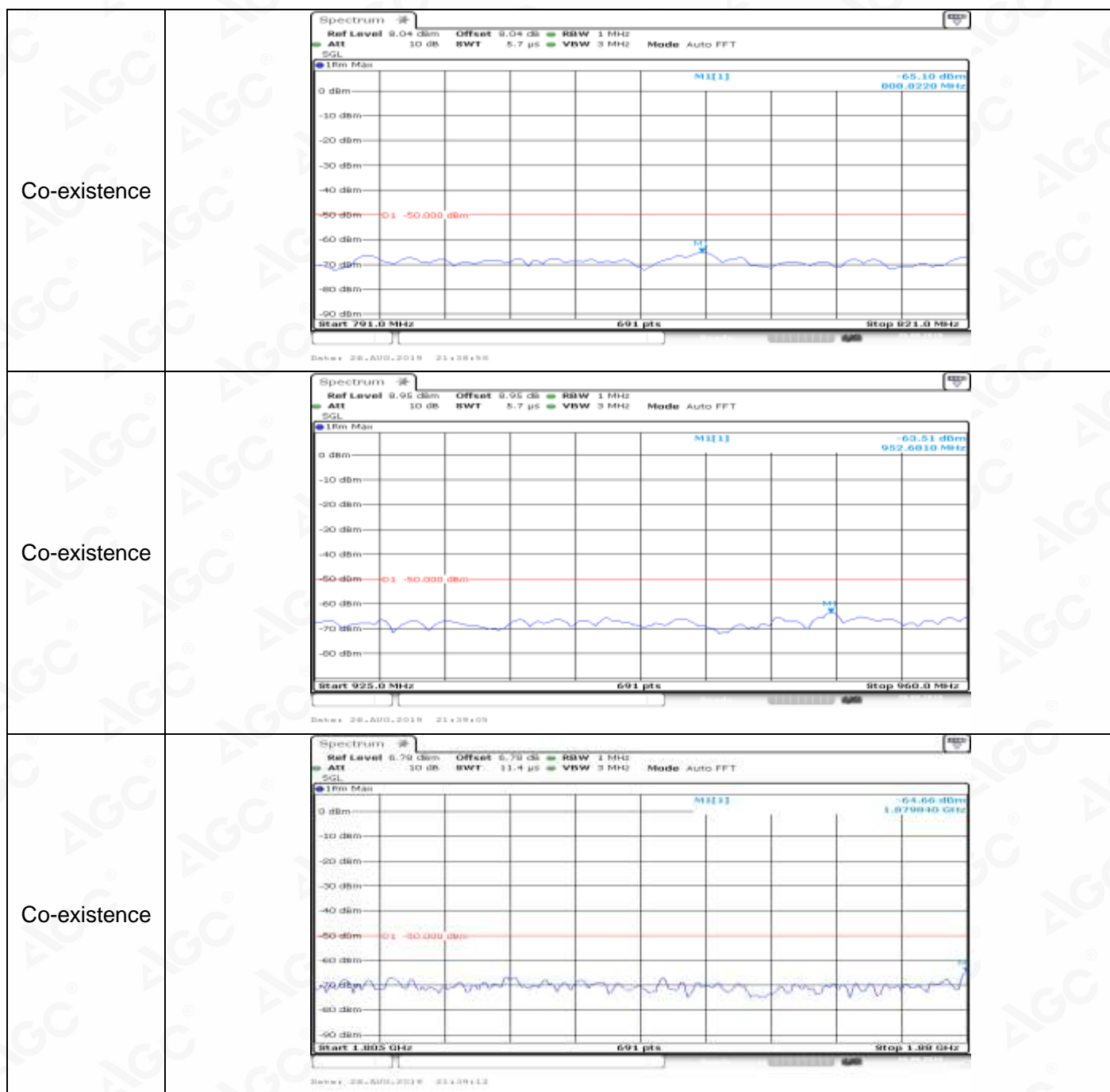
Co-existence	
Co-existence	
Co-existence	

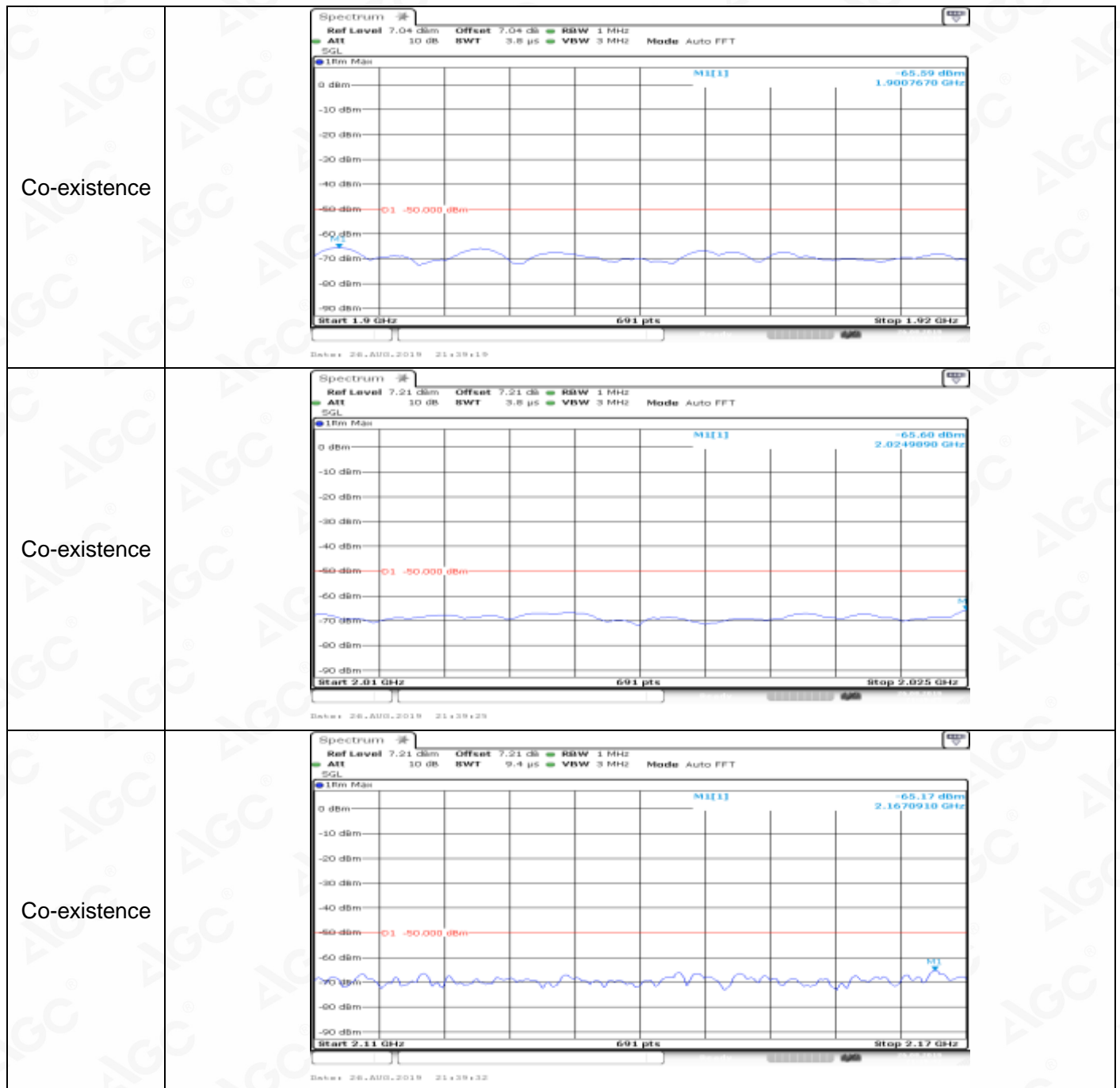


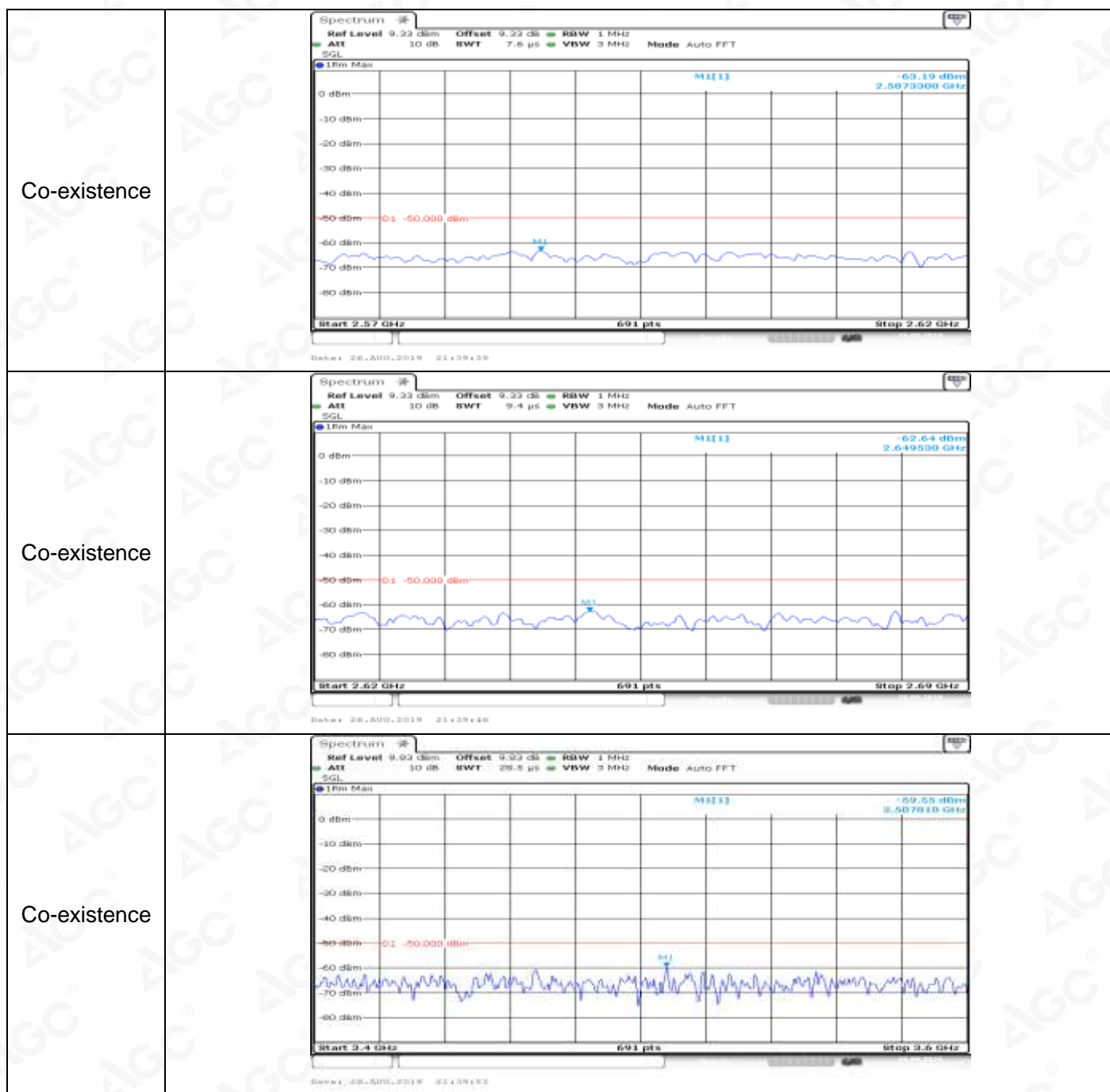
Co-existence	
Co-existence	
Co-existence	
Additional	NA

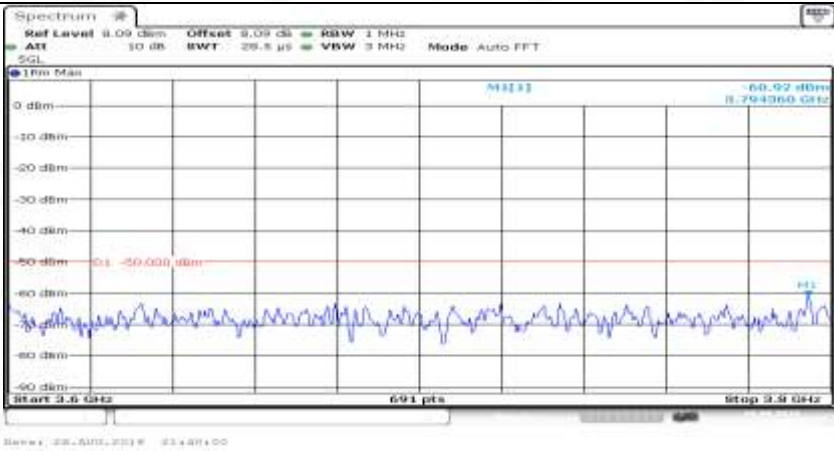


General	
General	
General	



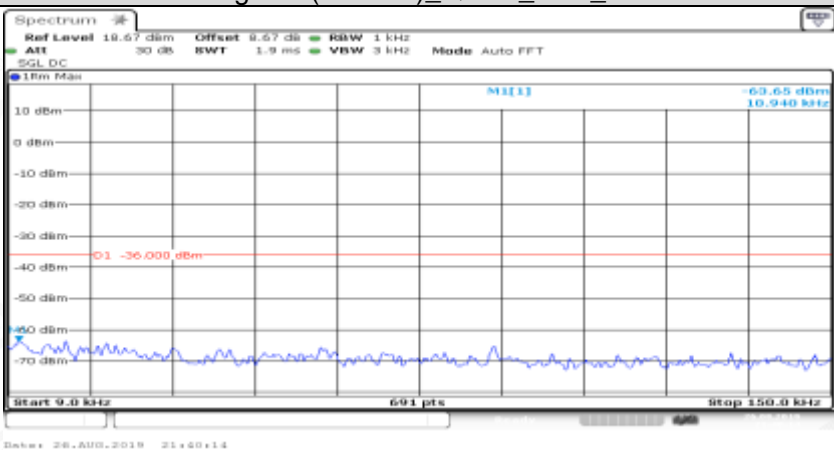
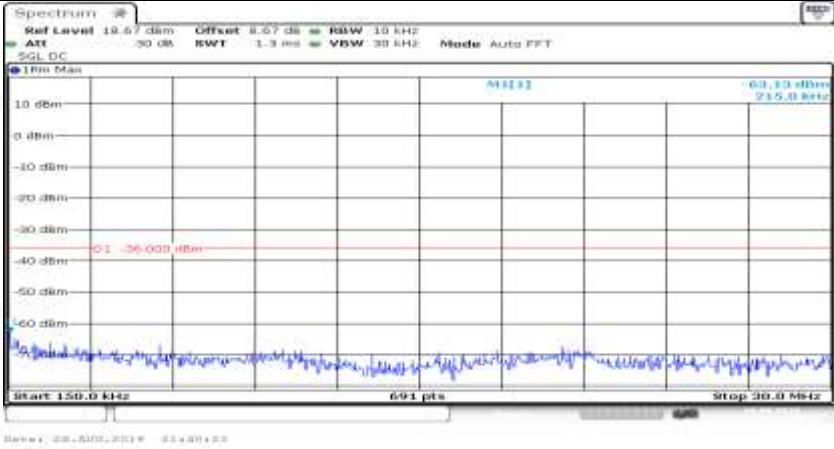





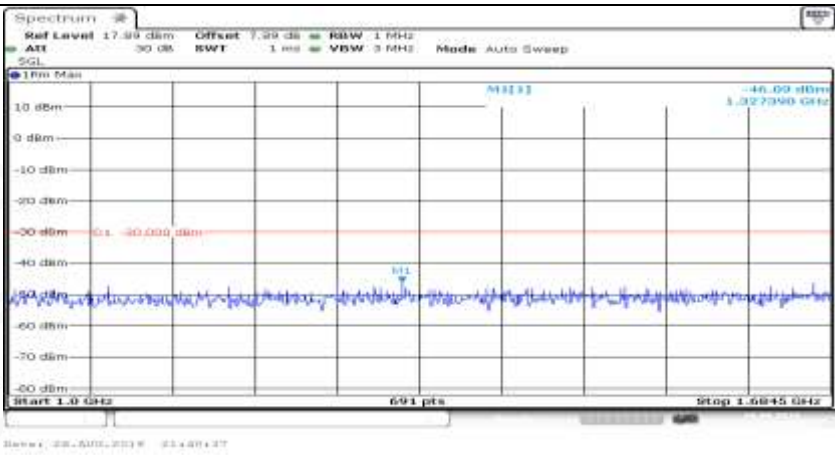
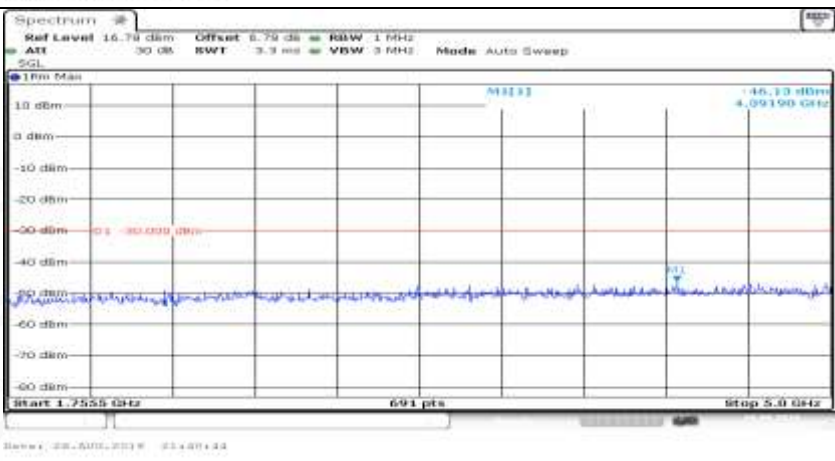
Co-existence	
Additional	NA

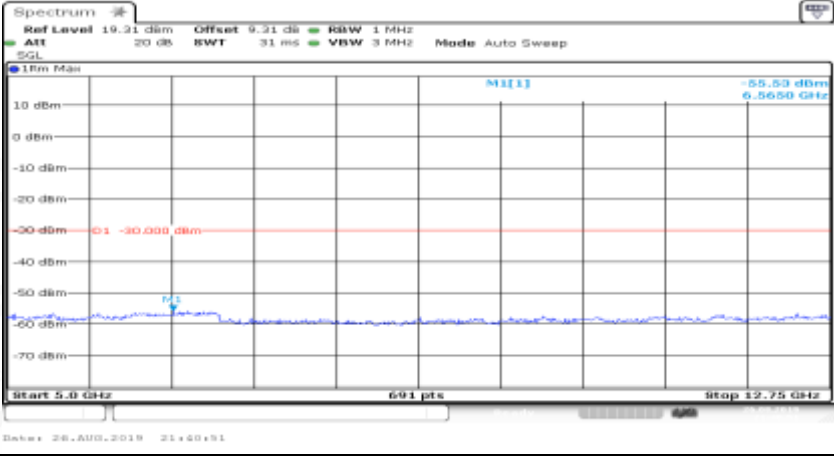
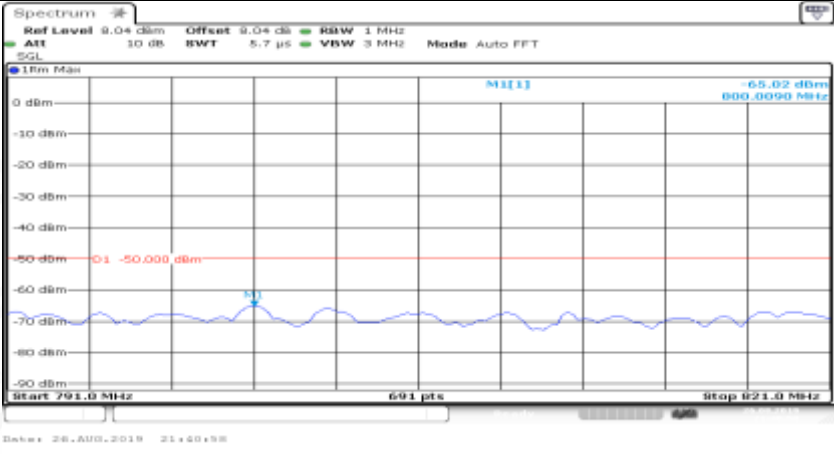
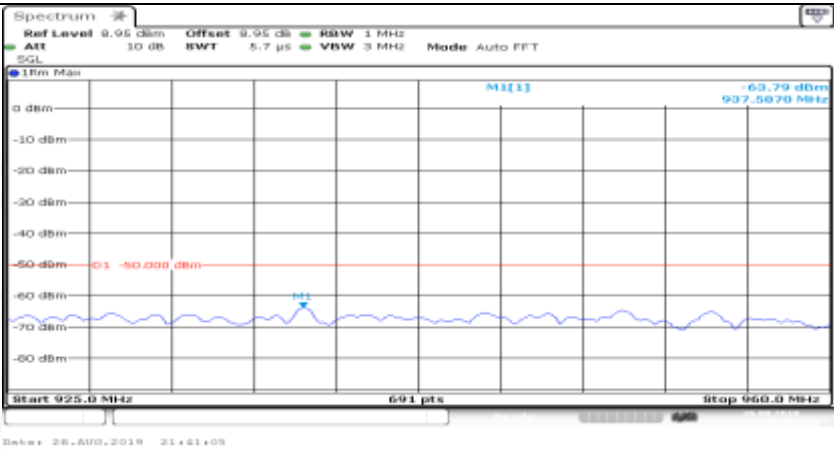
Channel Bandwidth= (20 MHz)


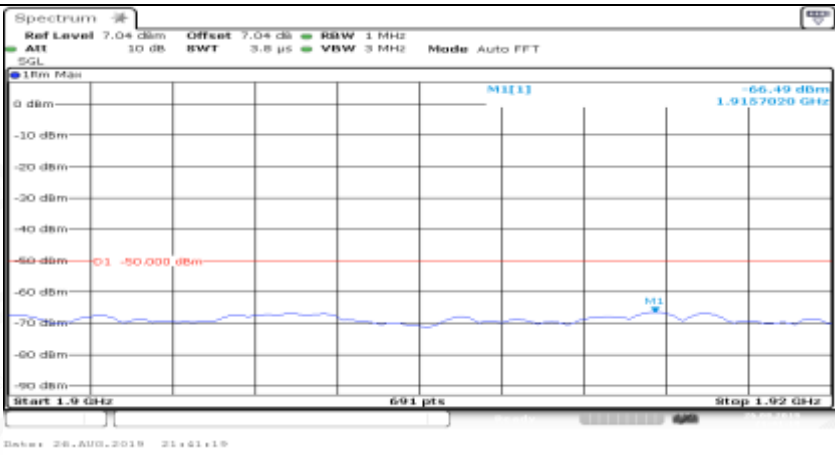
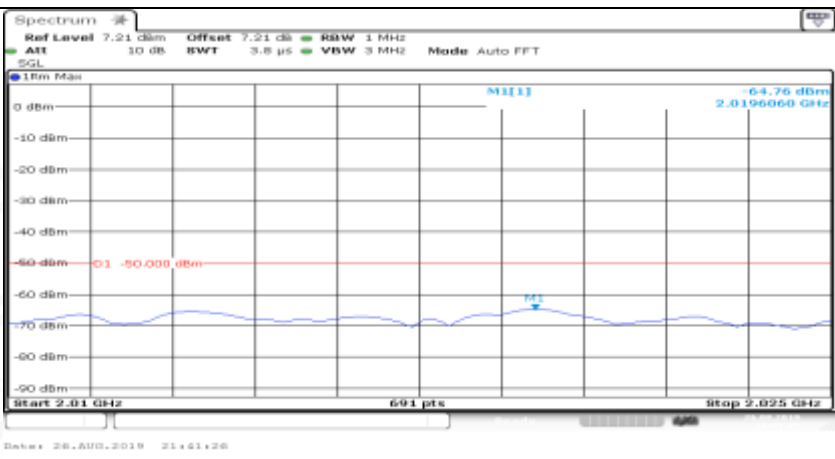
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

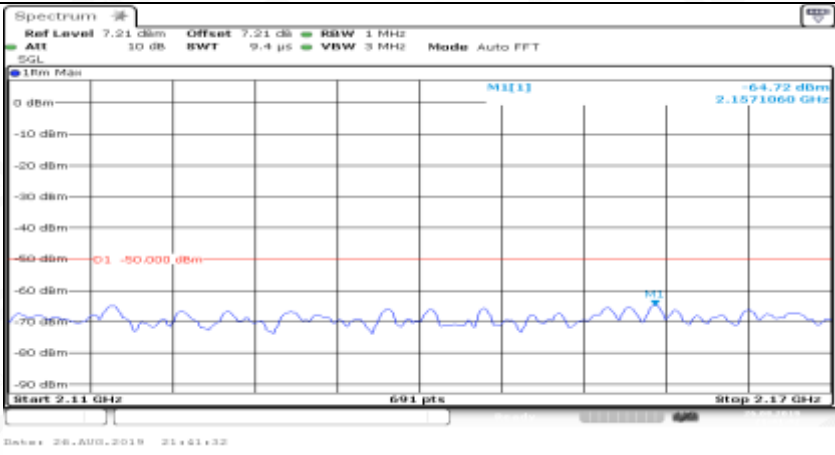
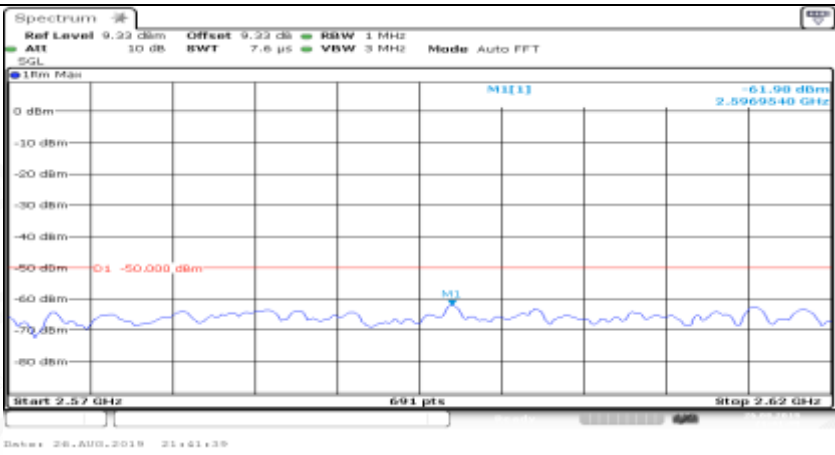
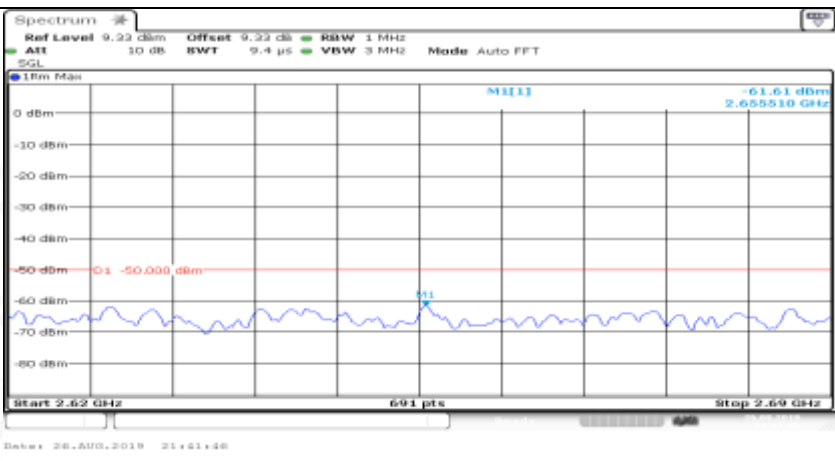
General	
General	

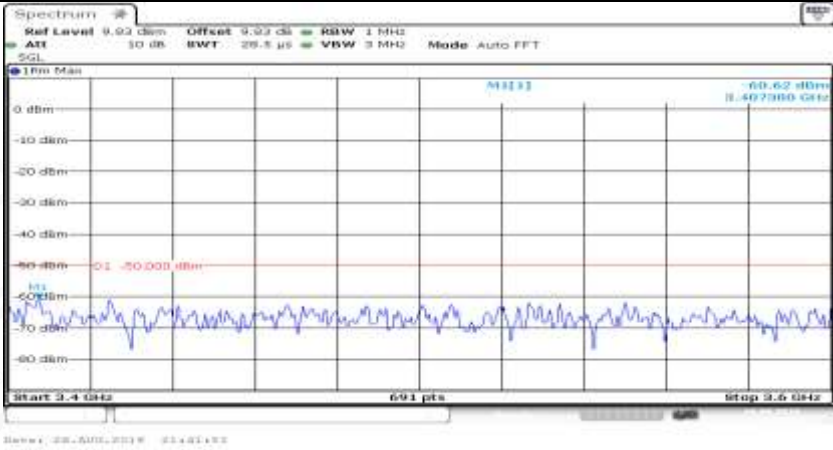
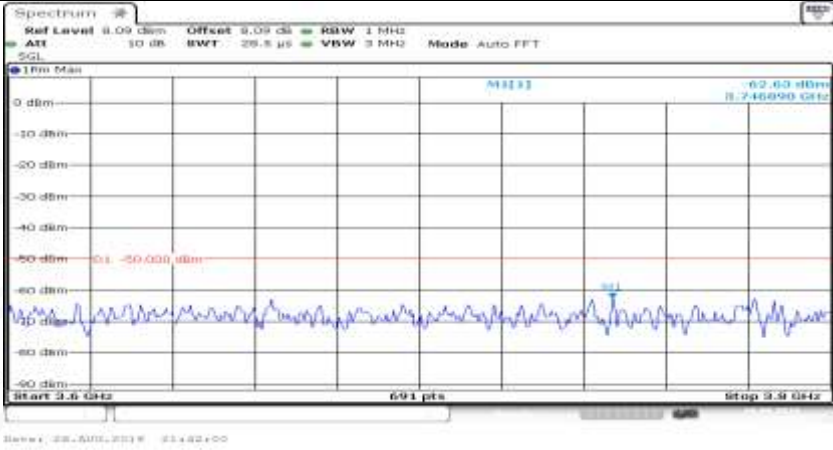


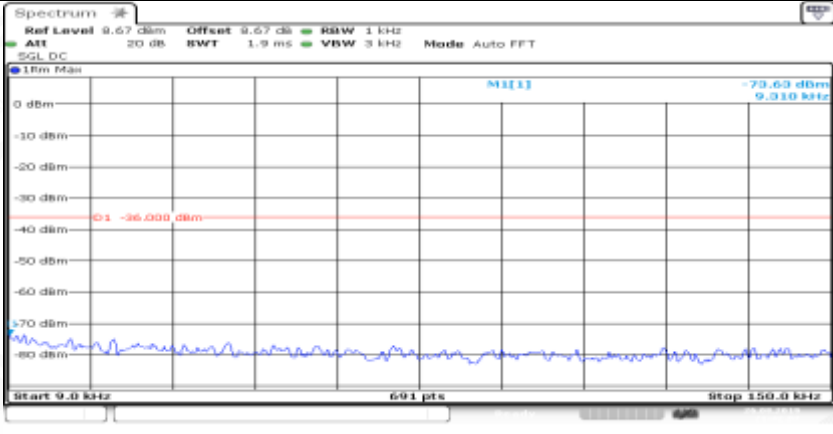
General	 <p>Spectrum</p> <p>Ref Level 18.72 dBm Offset 8.72 dB BW 100 kHz</p> <p>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>10 dBm</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 30.0 MHz</p> <p>691 pts</p> <p>Stop 1.0 GHz</p> <p>60.92 dBm</p> <p>828.00 MHz</p> <p>M113</p> <p>M11</p>
General	 <p>Spectrum</p> <p>Ref Level 17.89 dBm Offset 7.89 dB BW 1 MHz</p> <p>Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep</p> <p>10 dBm</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 1.0 GHz</p> <p>691 pts</p> <p>Stop 1.9945 GHz</p> <p>-46.00 dBm</p> <p>1.927390 GHz</p> <p>M113</p> <p>M11</p>
General	 <p>Spectrum</p> <p>Ref Level 16.74 dBm Offset 6.74 dB BW 1 MHz</p> <p>Att 30 dB SWT 3.3 ms VBW 3 MHz Mode Auto Sweep</p> <p>10 dBm</p> <p>0 dBm</p> <p>-10 dBm</p> <p>-20 dBm</p> <p>-30 dBm</p> <p>-40 dBm</p> <p>-50 dBm</p> <p>-60 dBm</p> <p>-70 dBm</p> <p>-80 dBm</p> <p>Start 1.7555 GHz</p> <p>691 pts</p> <p>Stop 5.0 GHz</p> <p>-46.10 dBm</p> <p>4.09190 GHz</p> <p>M113</p> <p>M11</p>

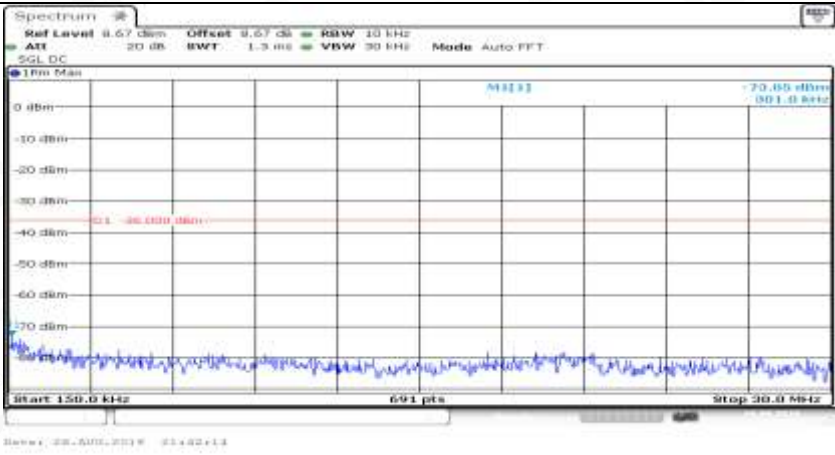
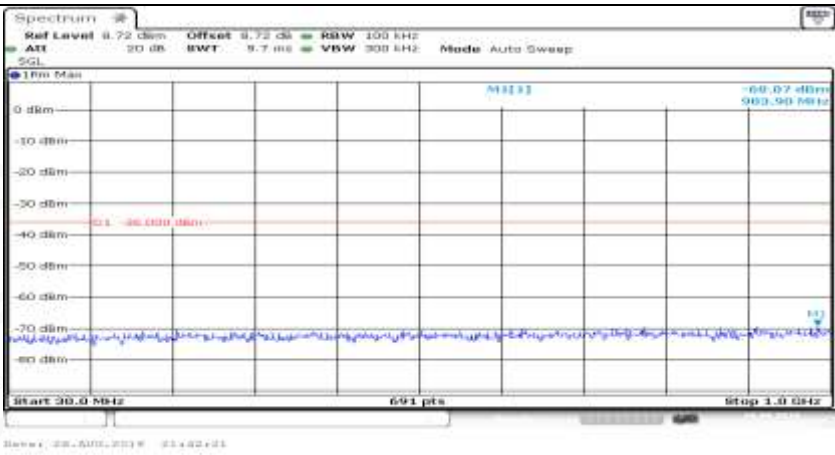
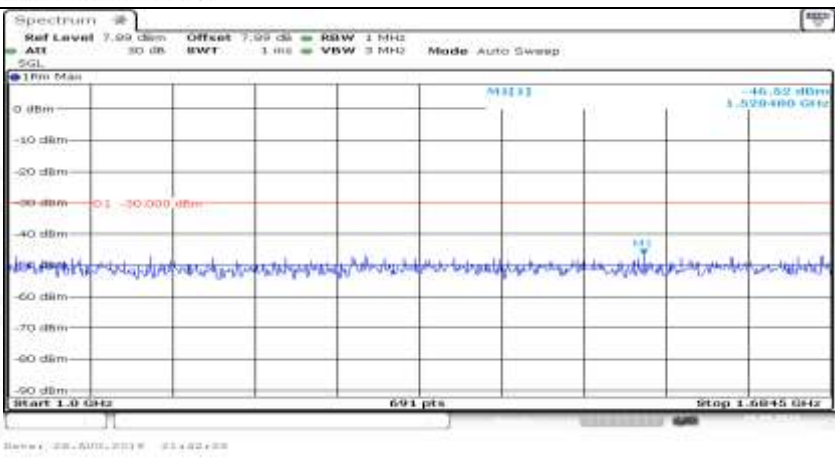
General	
Co-existence	
Co-existence	

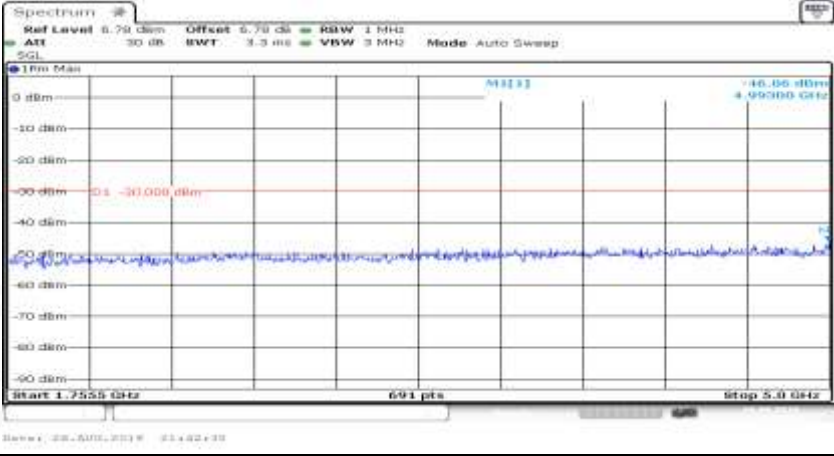
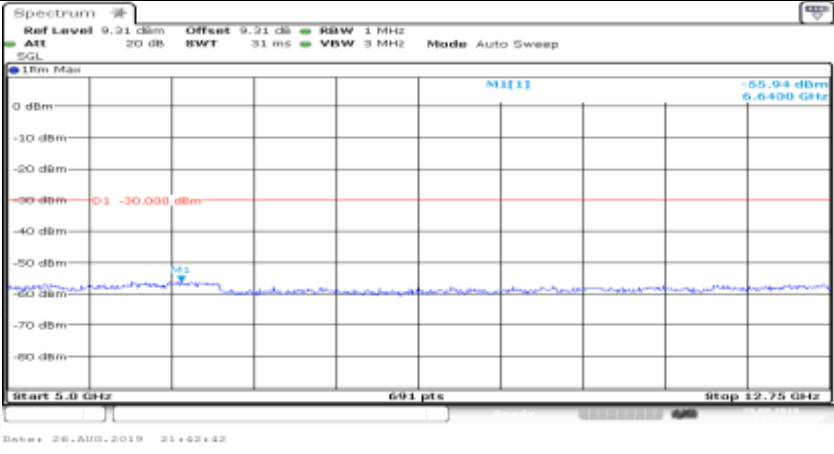
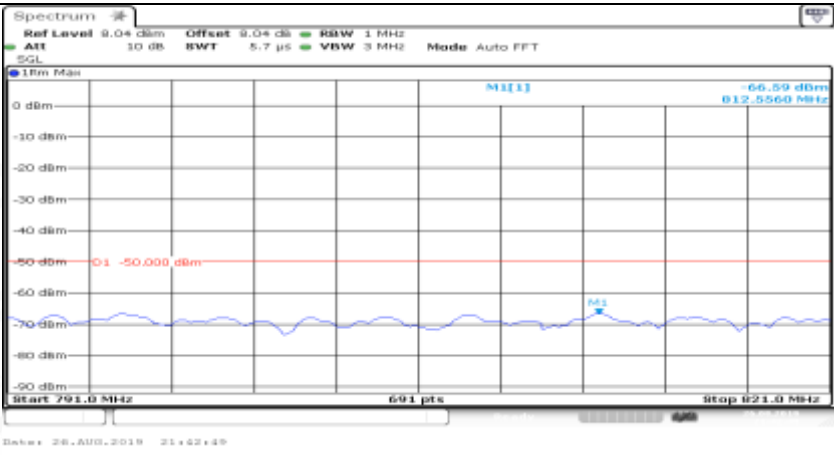
Co-existence	
Co-existence	
Co-existence	

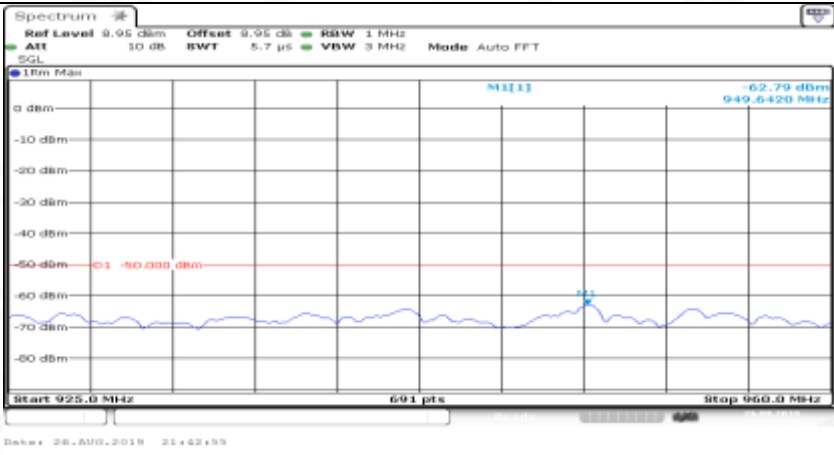

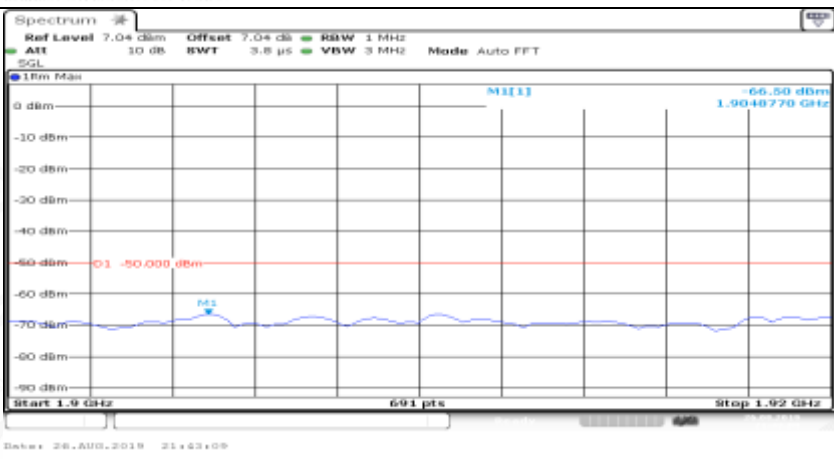
Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Additional	NA

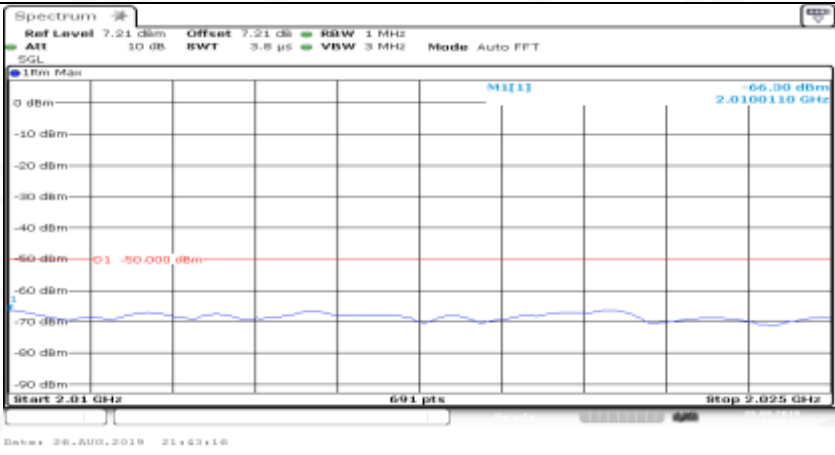
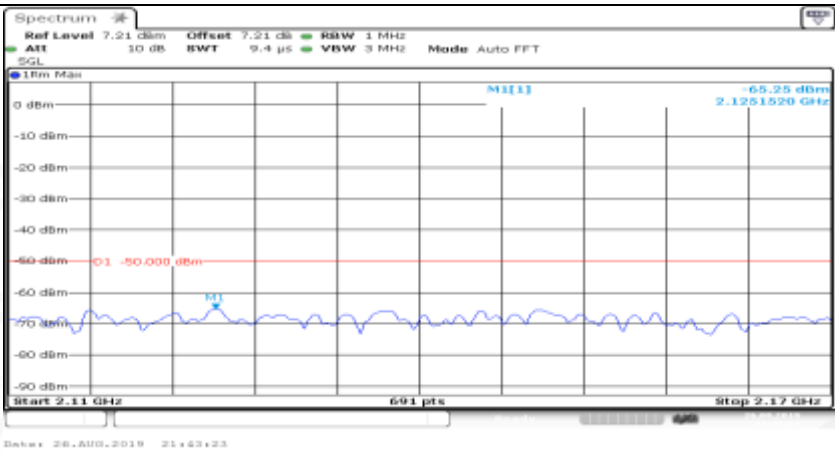
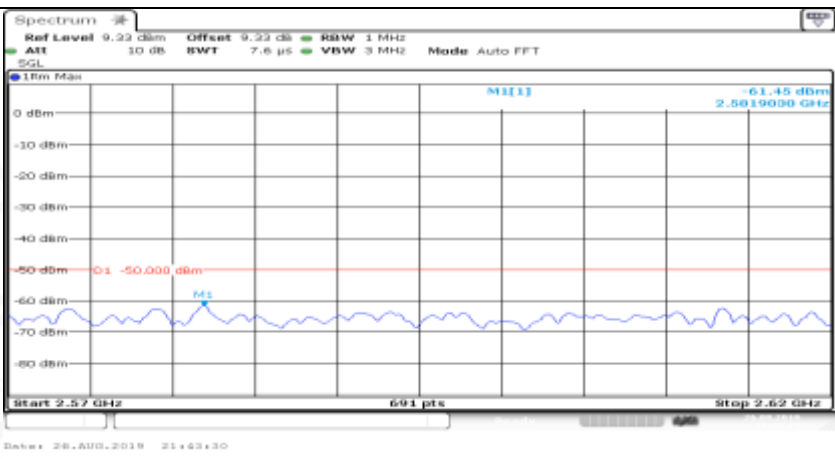
Channel Bandwidth=Highest (#BWH MHz)_QPSK_LCH_1RB#max	
General	

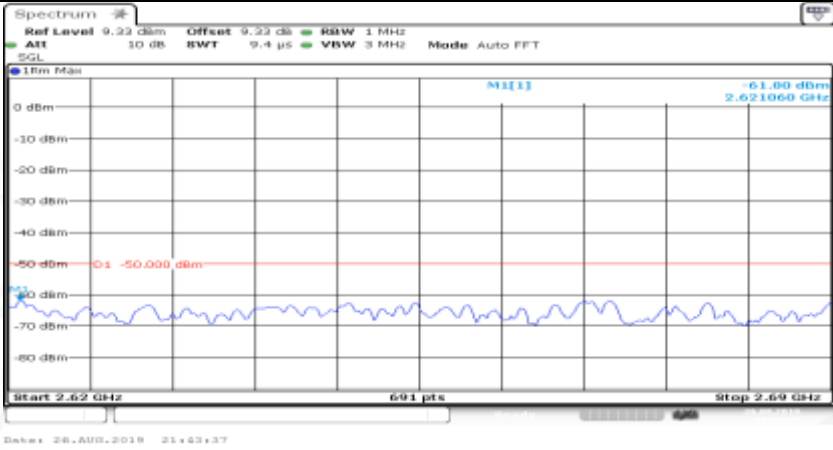
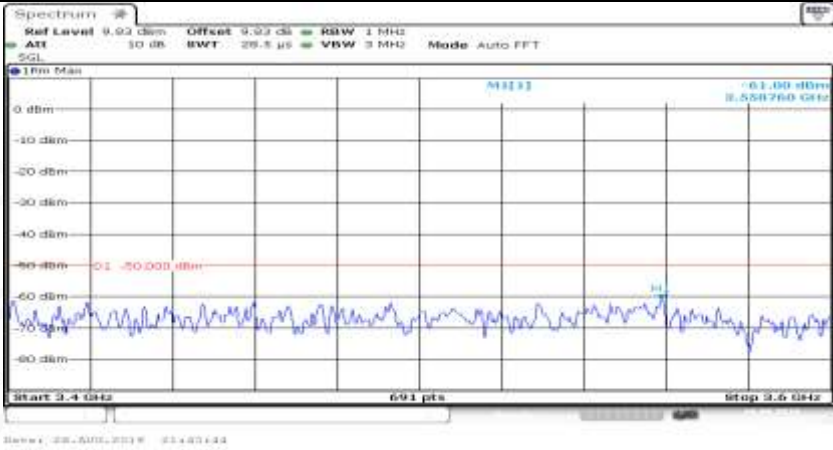
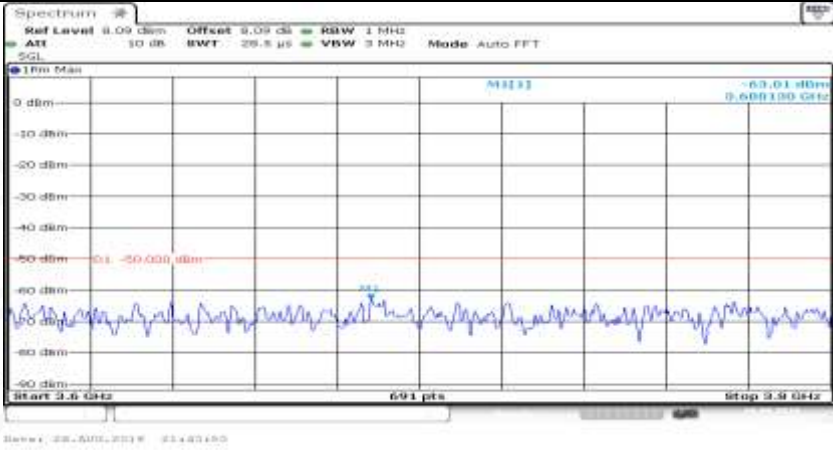
General	
General	
General	

General	
General	
Co-existence	

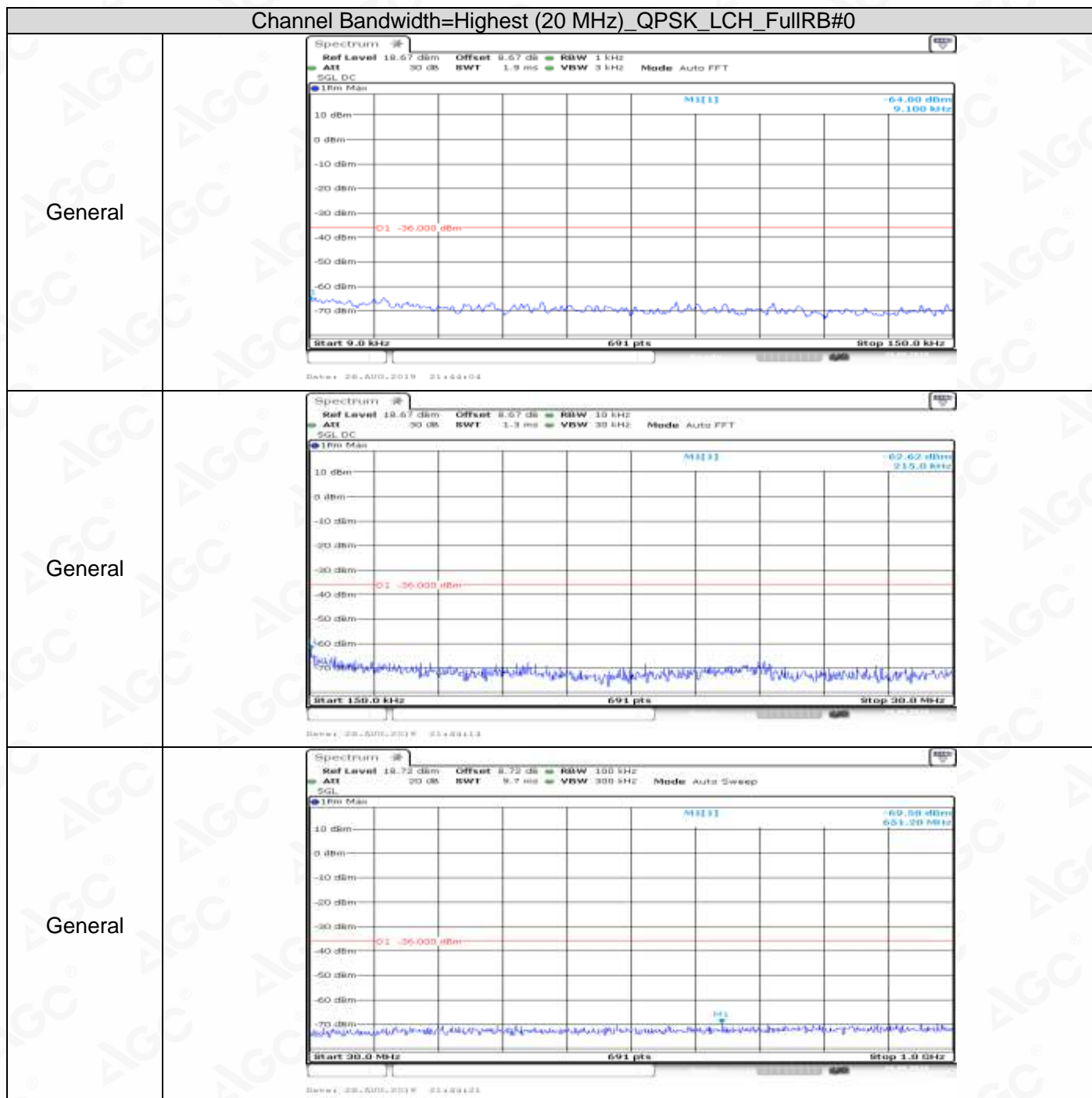
Co-existence	
Co-existence	
Co-existence	

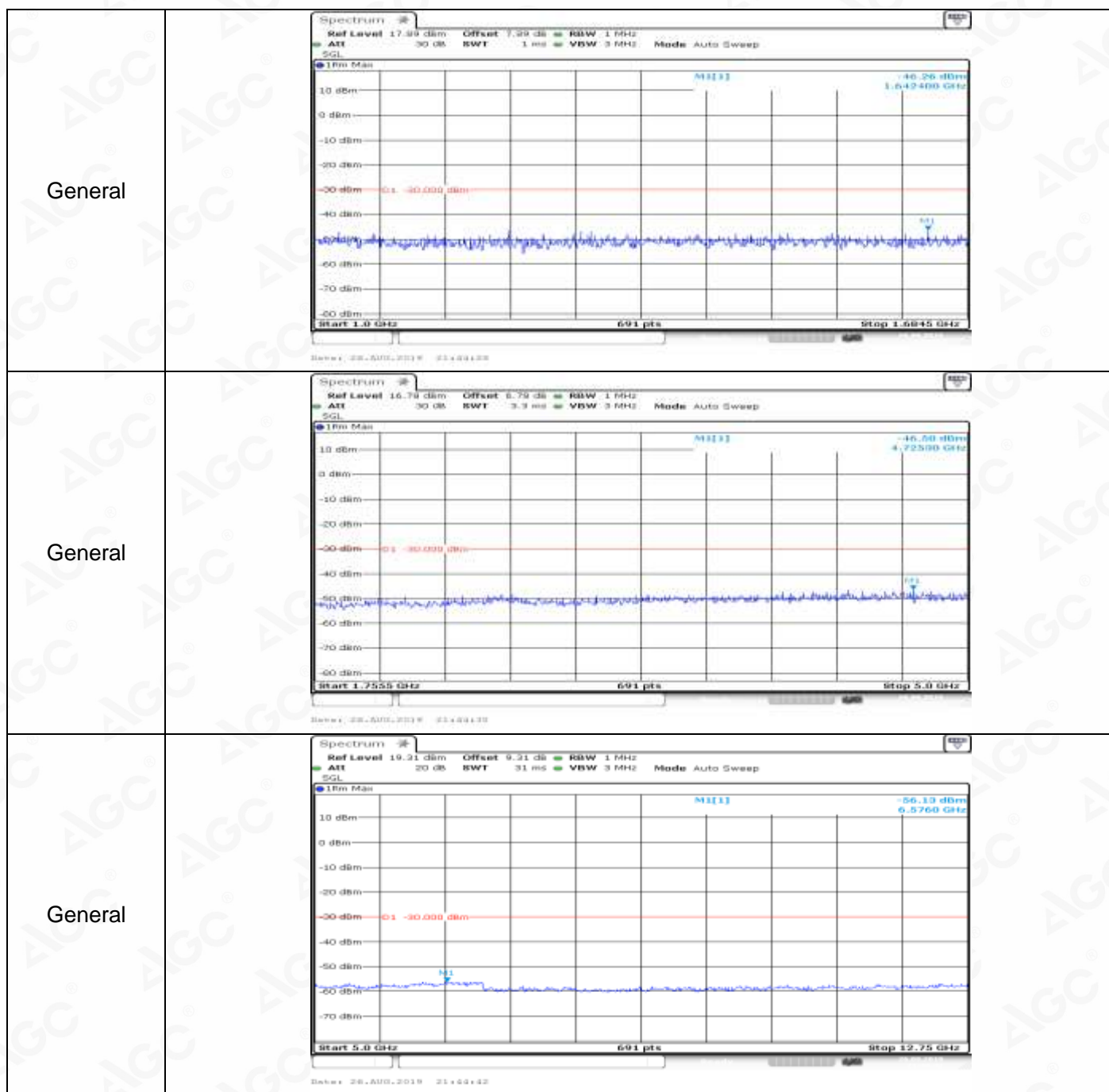


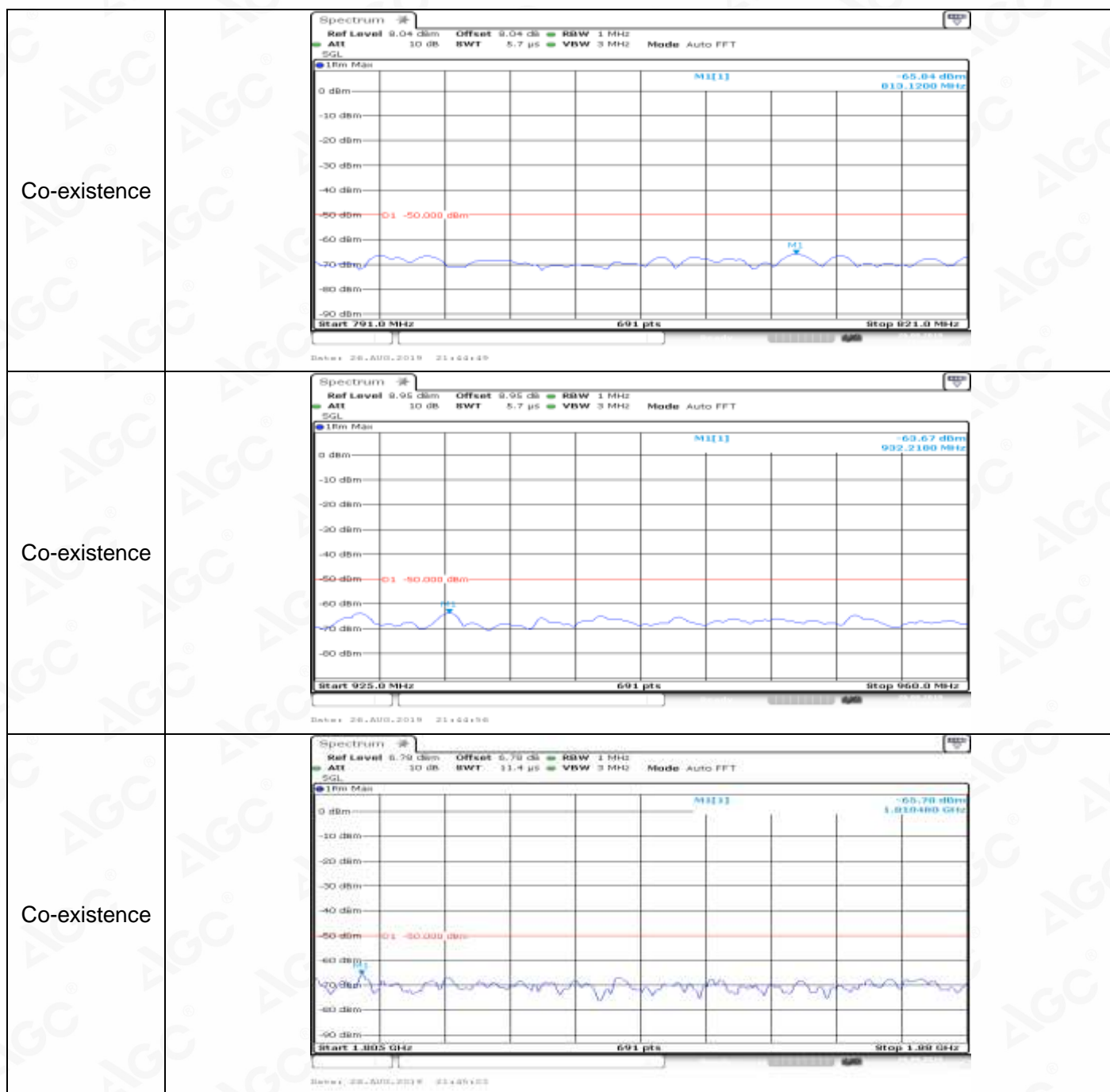
Co-existence	
Co-existence	
Co-existence	

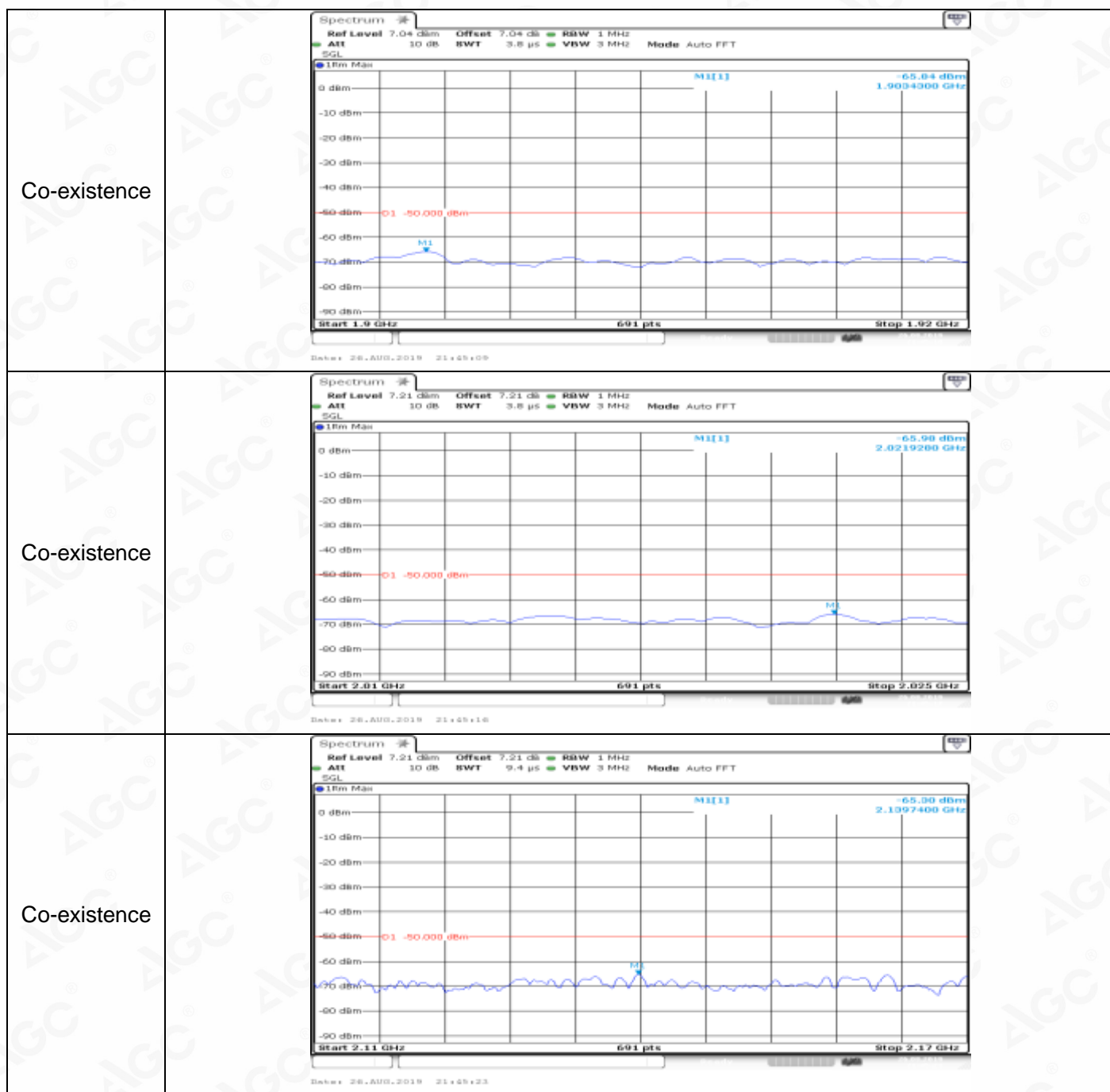
Co-existence	
Co-existence	
Co-existence	
Additional	NA

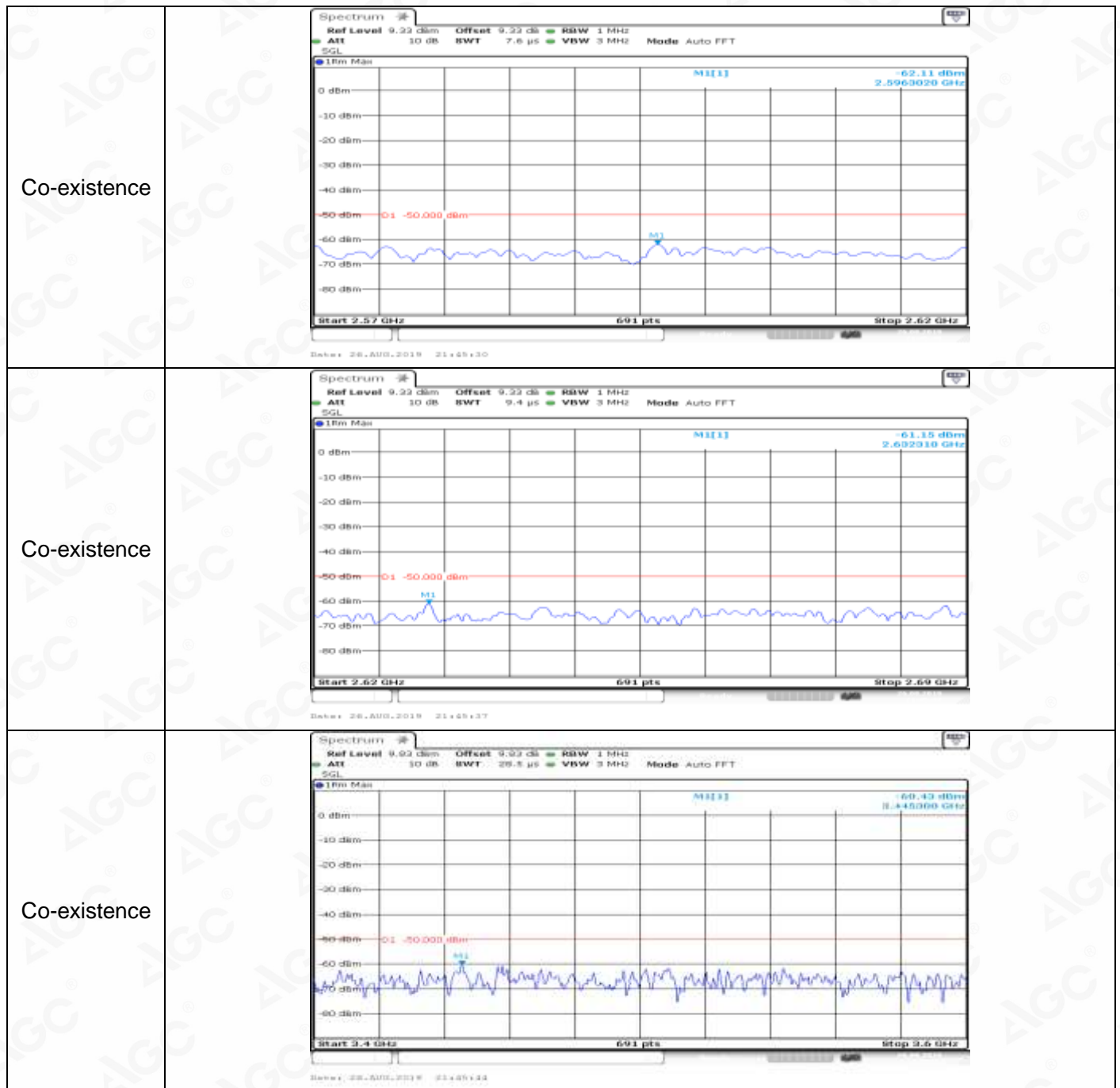
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0

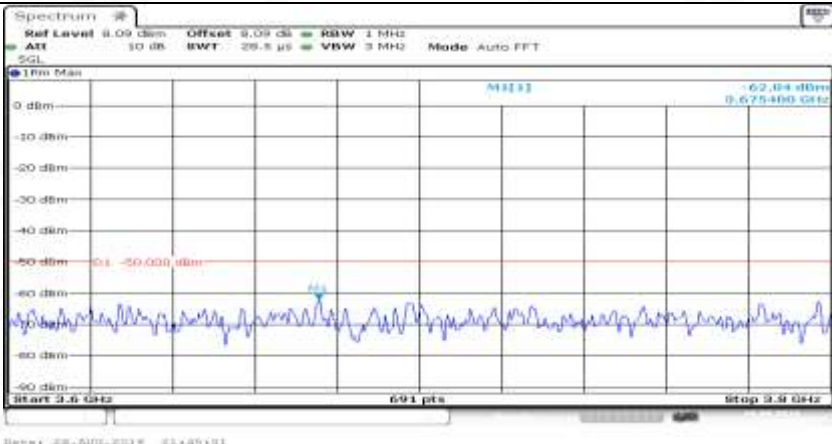




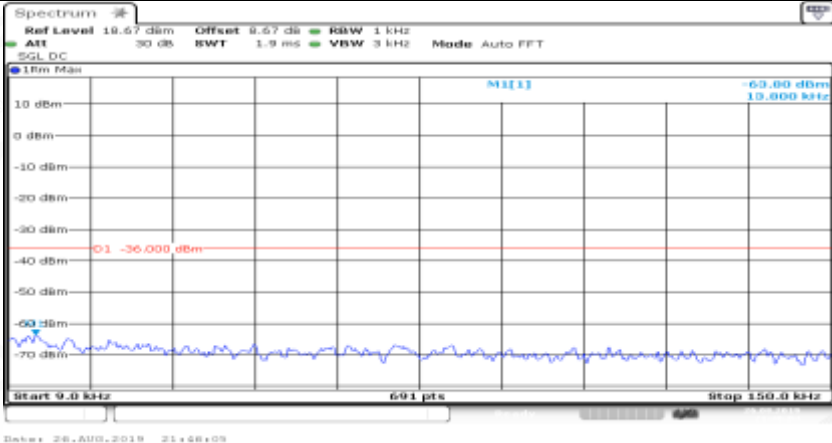
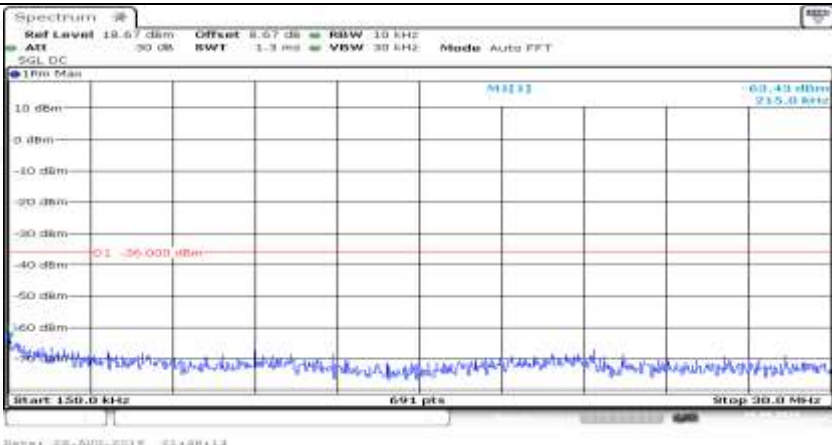


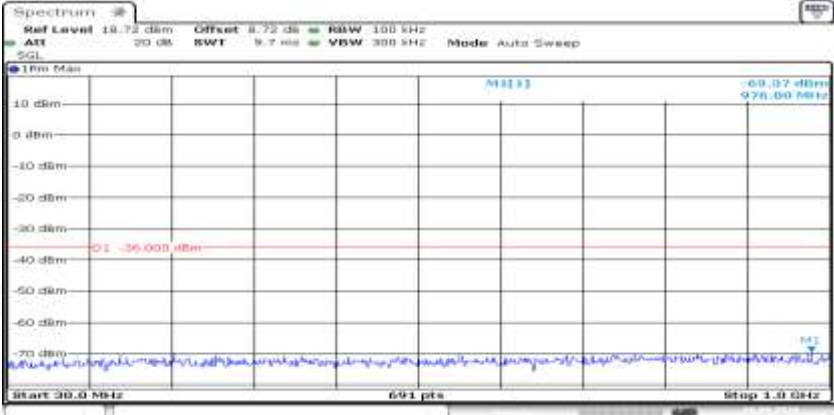
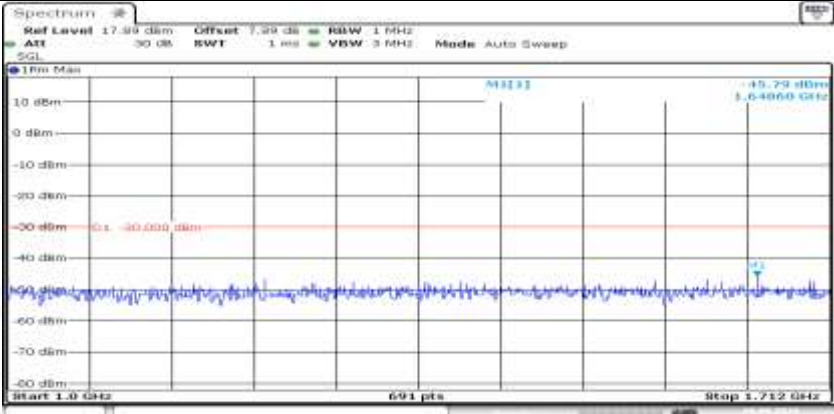
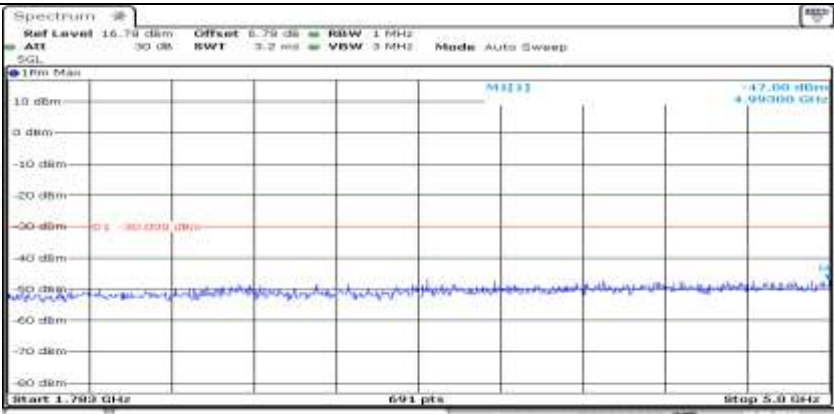


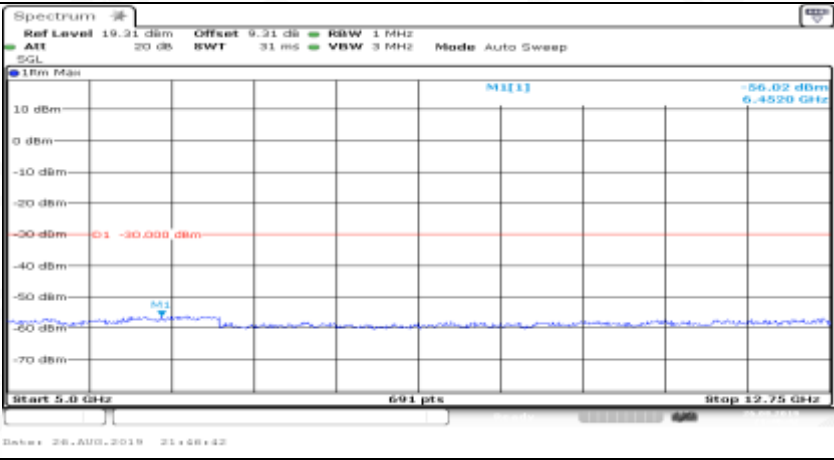
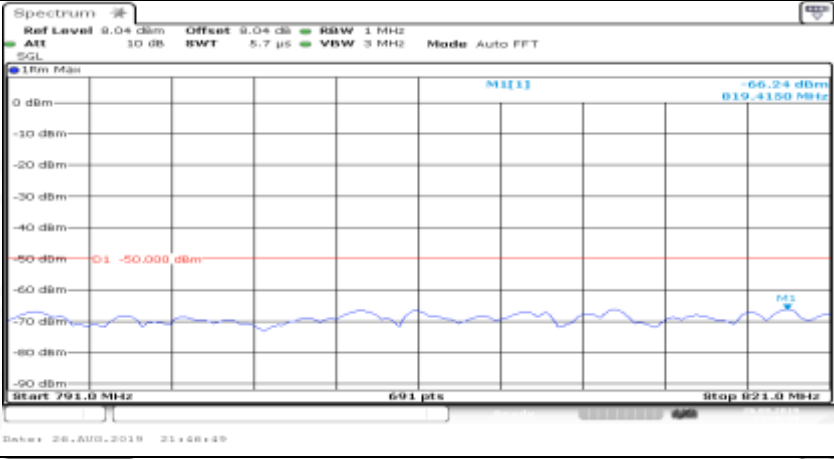
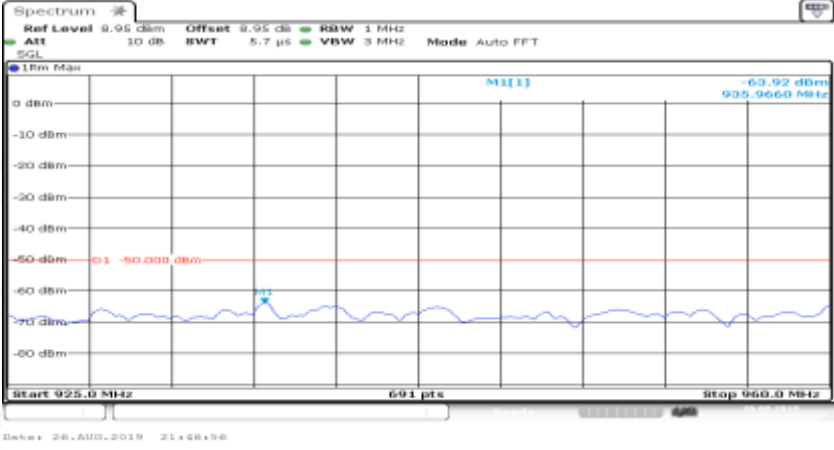


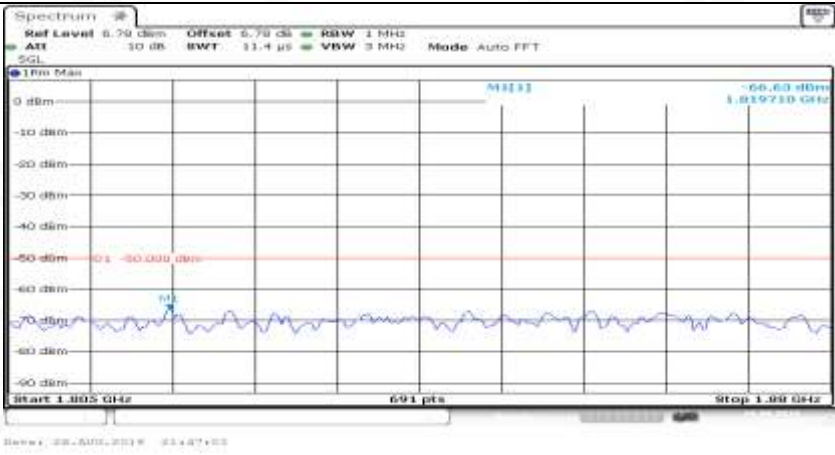
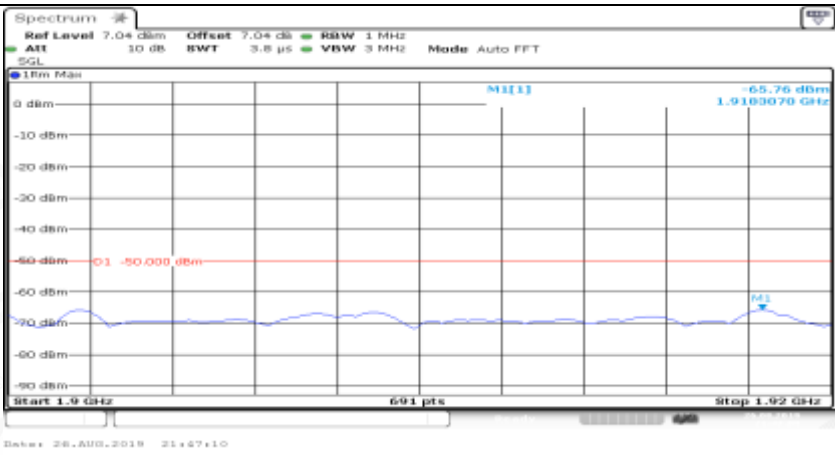
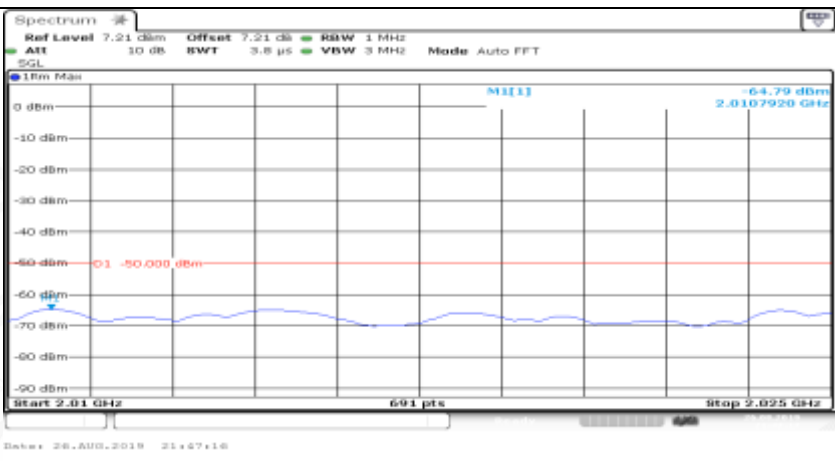
Co-existence	
Additional	NA

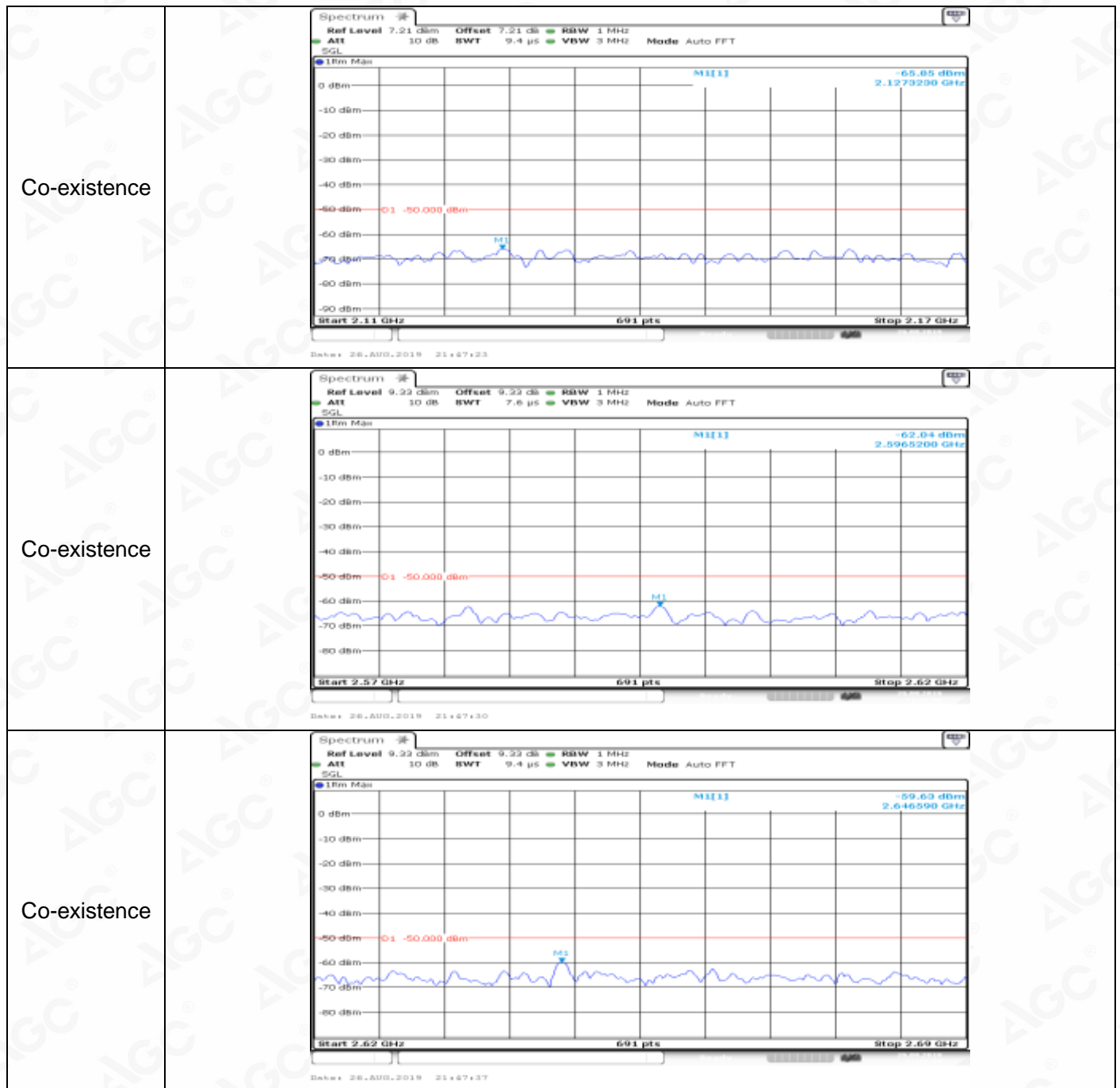
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

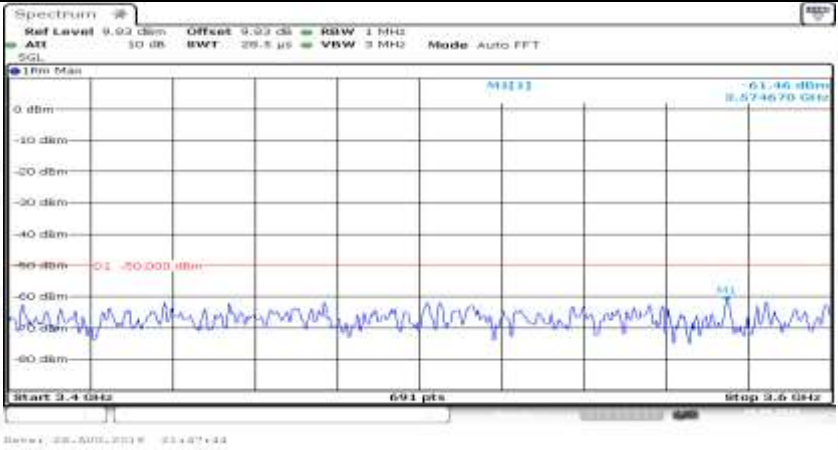
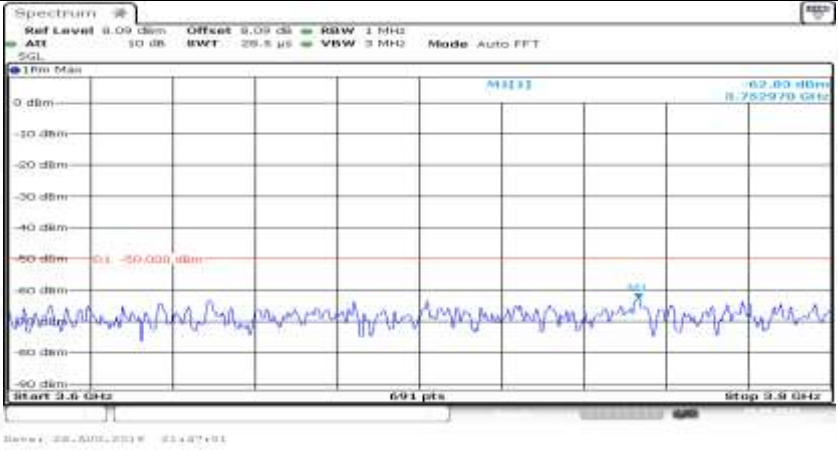
General	
General	

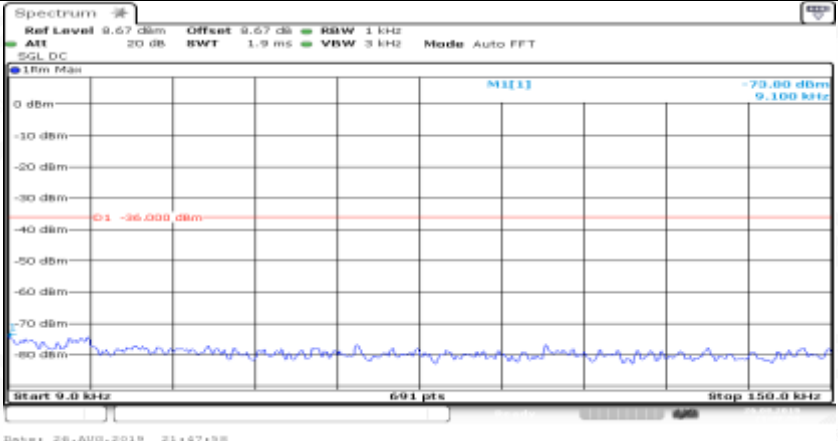
General	 <p>Spectrum</p> <p>Ref Level 18.72 dBm Offset 8.72 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 30.0 MHz Stop 3.0 GHz</p> <p>691 pts</p> <p>Ref: 22-AUG-2019 21:48:21</p>
General	 <p>Spectrum</p> <p>Ref Level 17.89 dBm Offset 7.89 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 1.0 GHz Stop 1.712 GHz</p> <p>691 pts</p> <p>Ref: 22-AUG-2019 21:48:22</p>
General	 <p>Spectrum</p> <p>Ref Level 16.74 dBm Offset 6.74 dB RBW 1 MHz Att 30 dB SWT 3.2 ms VBW 3 MHz Mode Auto Sweep</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 1.700 GHz Stop 5.0 GHz</p> <p>691 pts</p> <p>Ref: 22-AUG-2019 21:48:23</p>

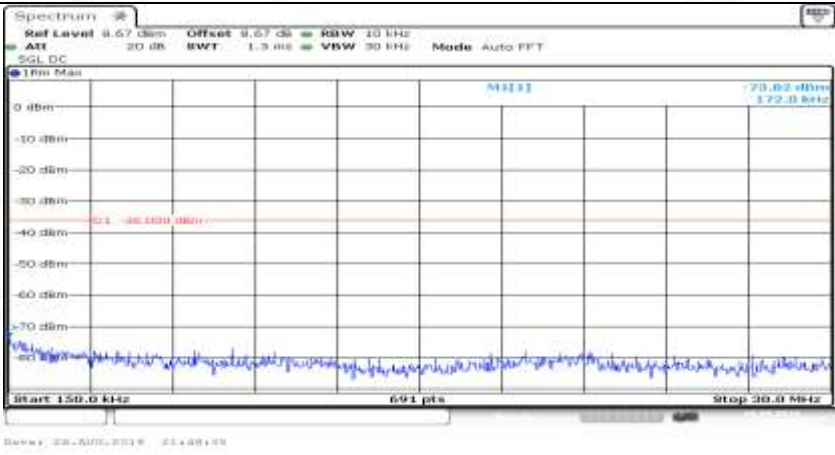
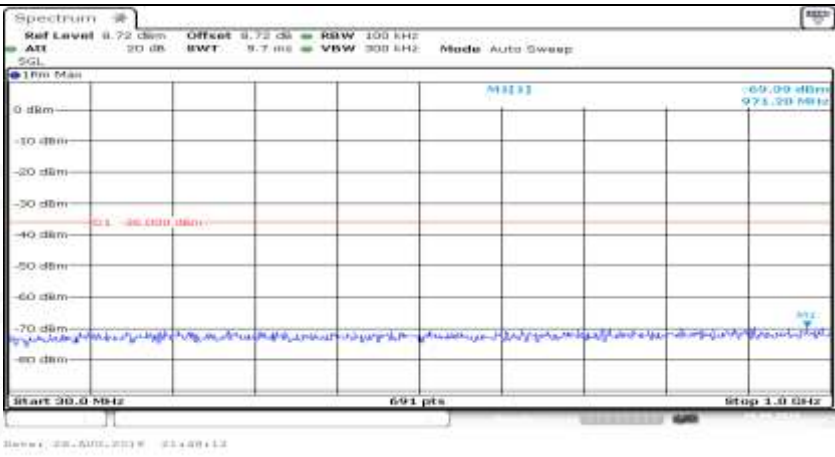
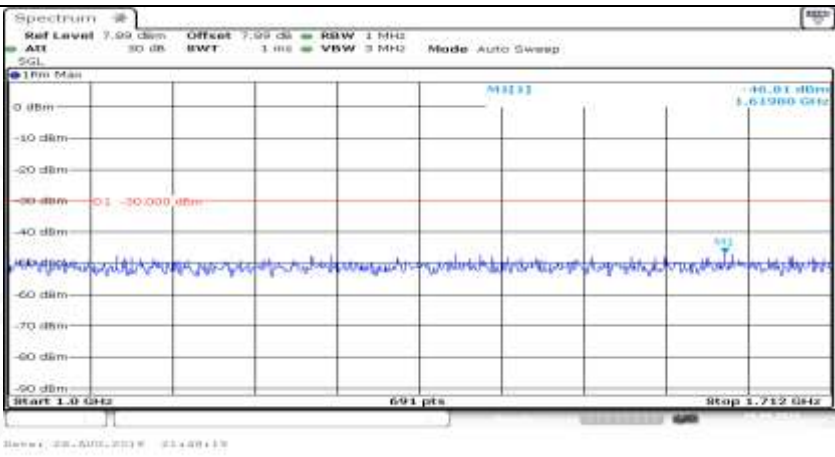
General	
Co-existence	
Co-existence	

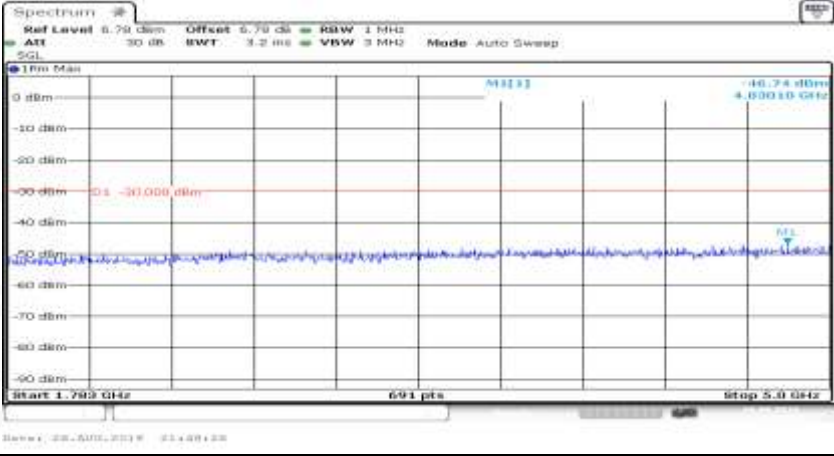
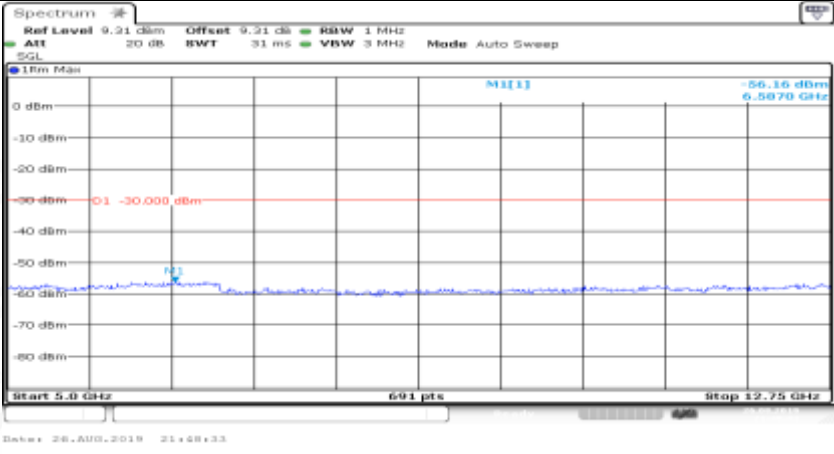
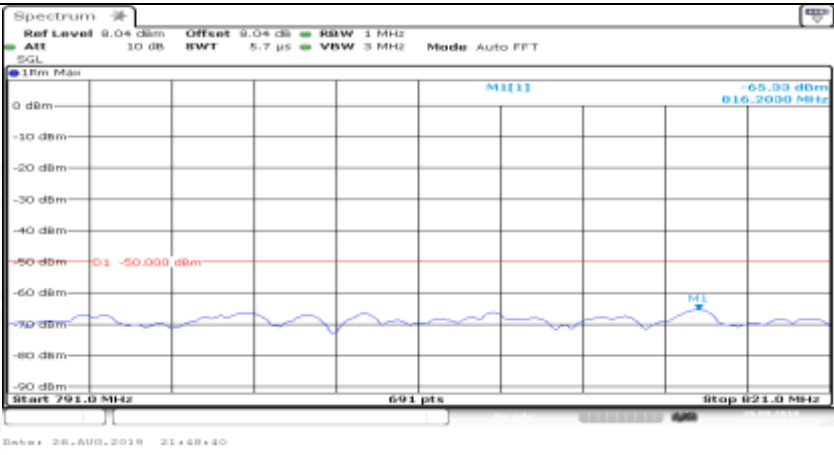
Co-existence	
Co-existence	
Co-existence	

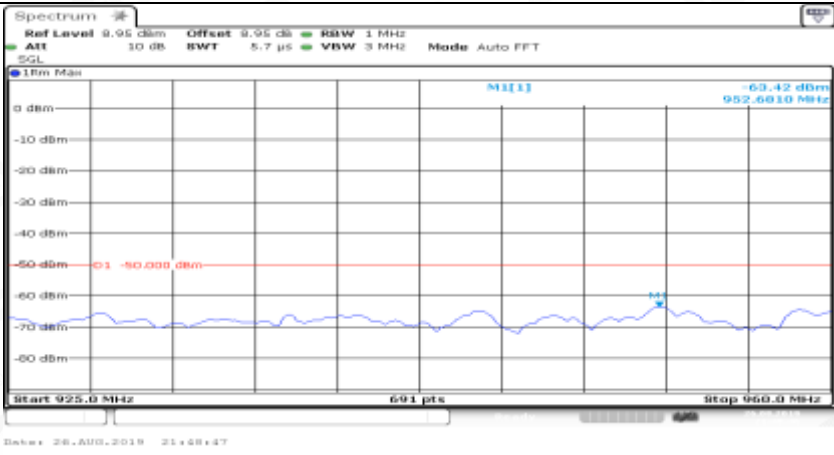

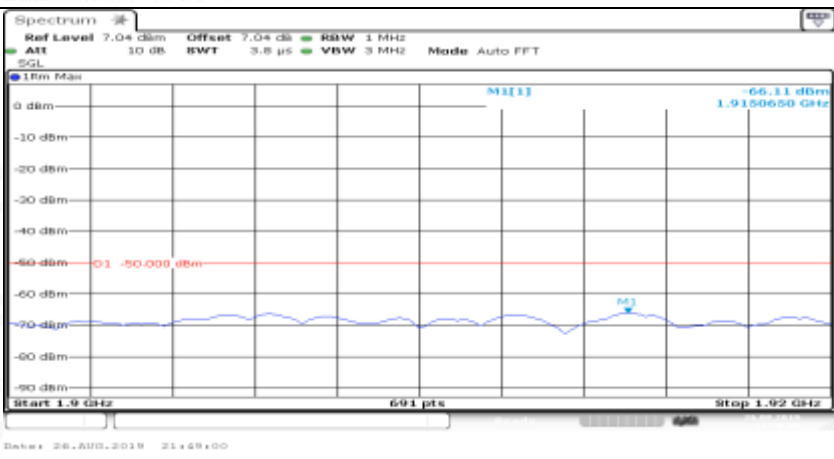


Co-existence	
Co-existence	
Additional	NA

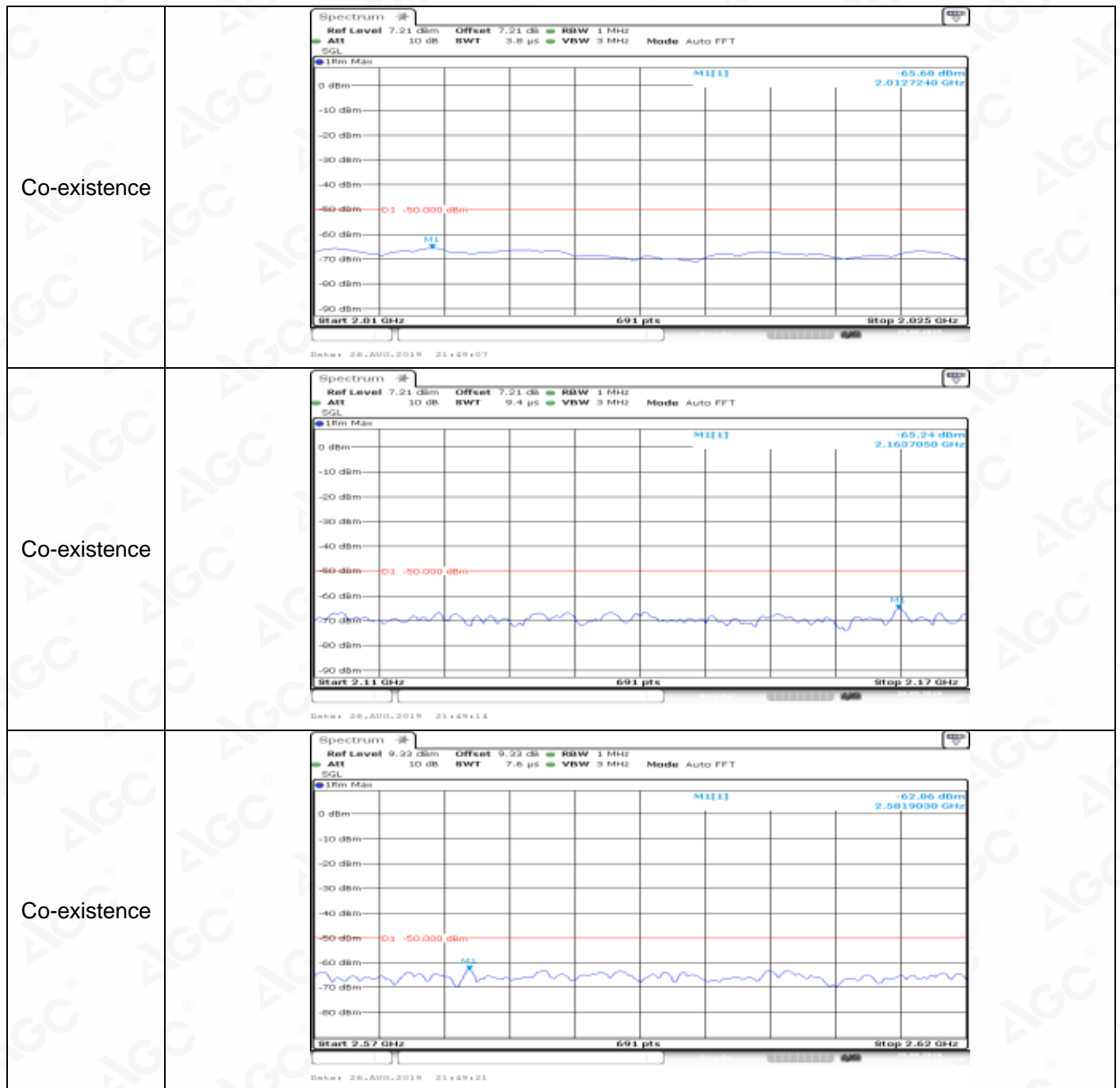
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	

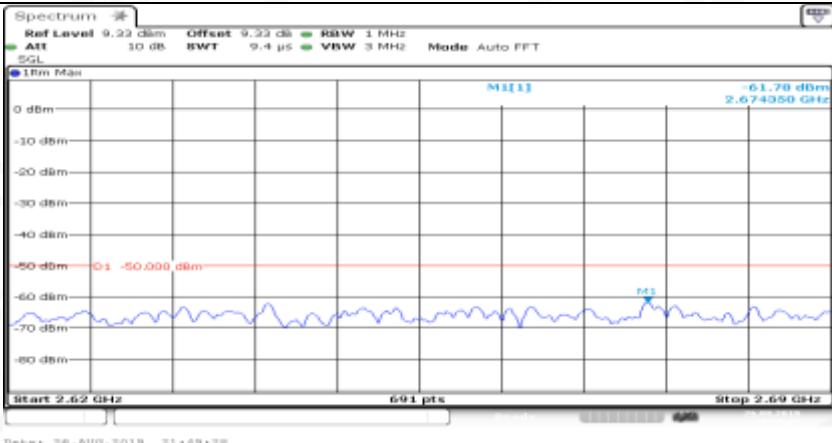
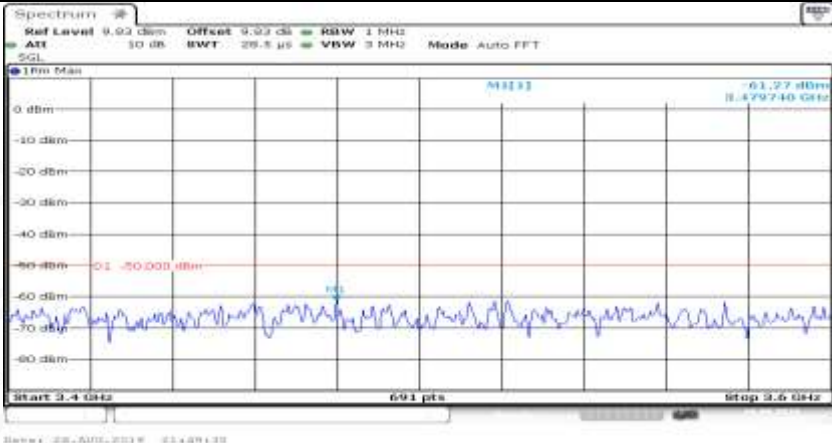
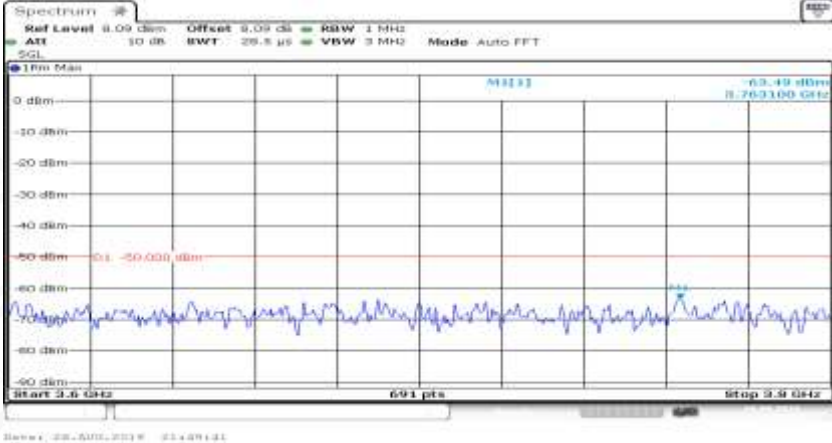
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General	
General	

General	
General	
Co-existence	

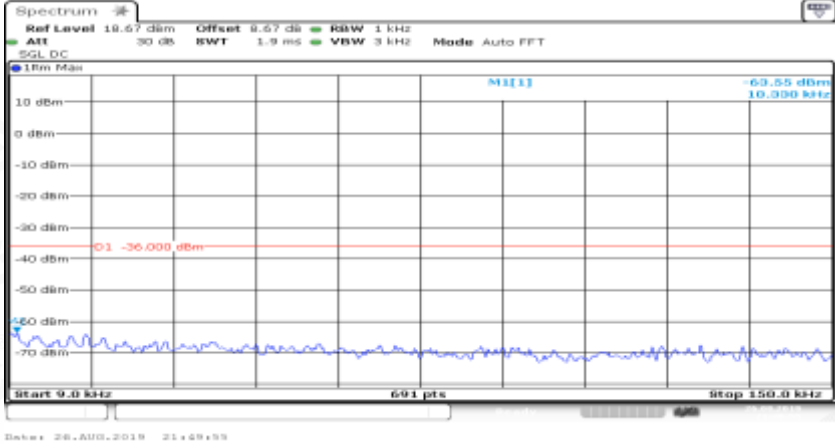
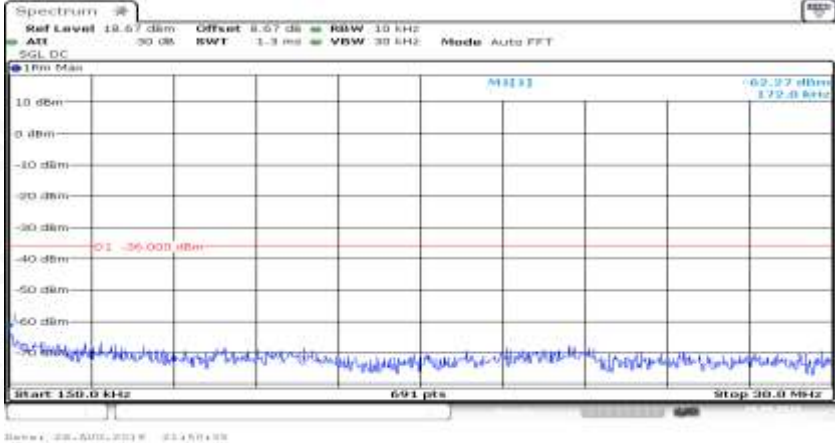
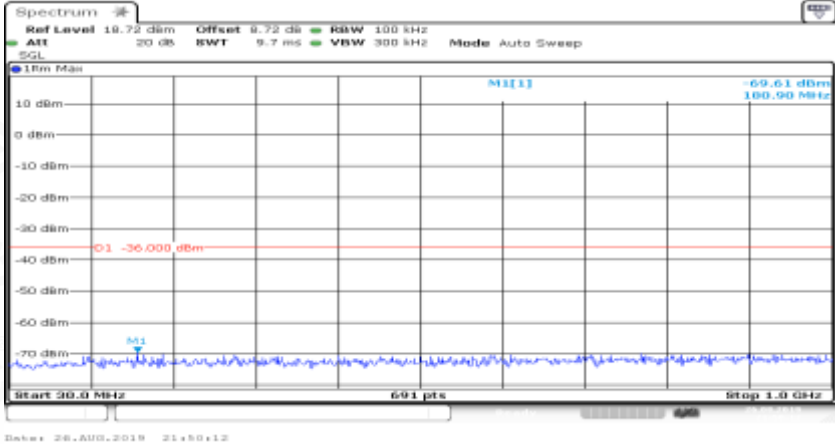
Co-existence	
Co-existence	
Co-existence	



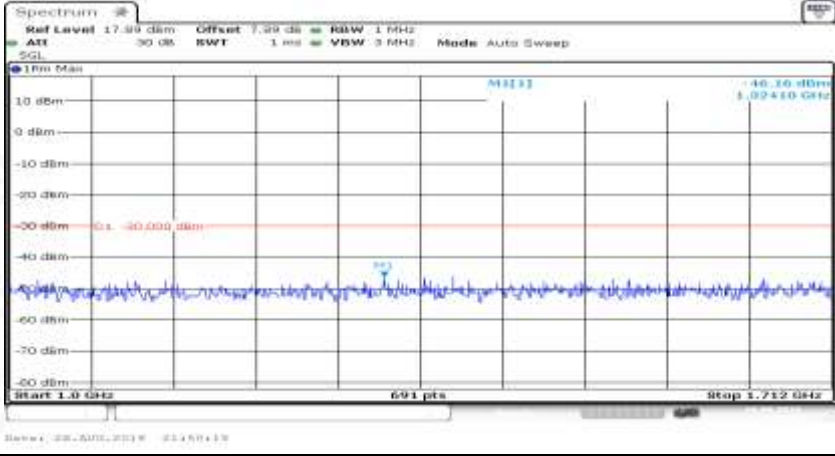
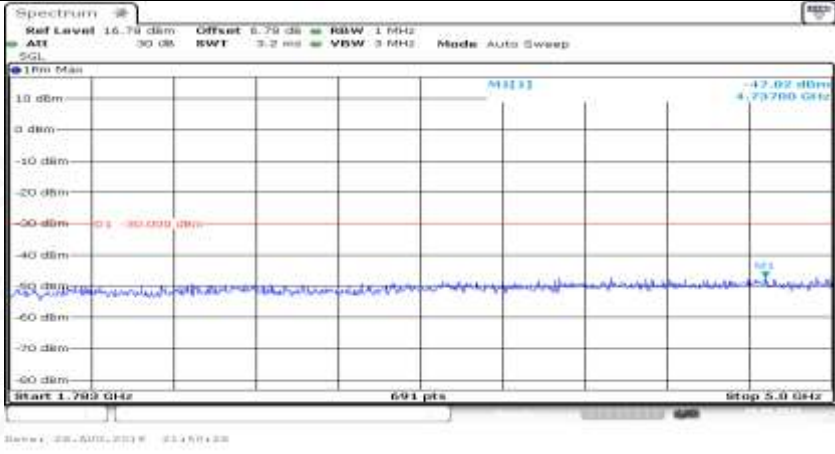
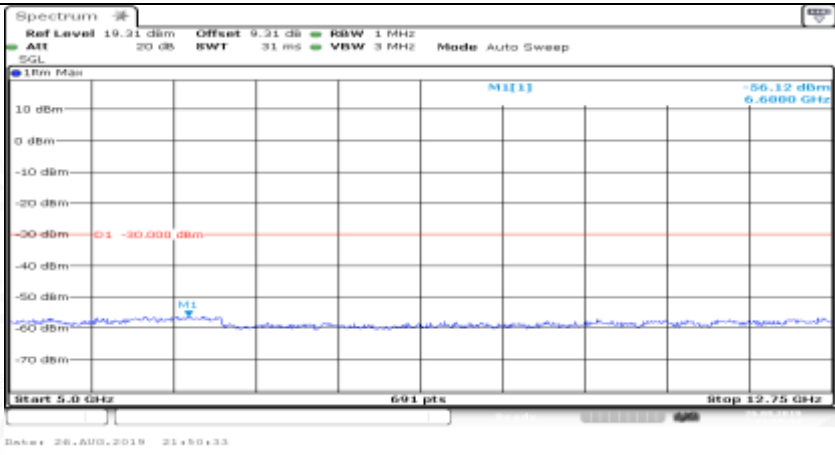


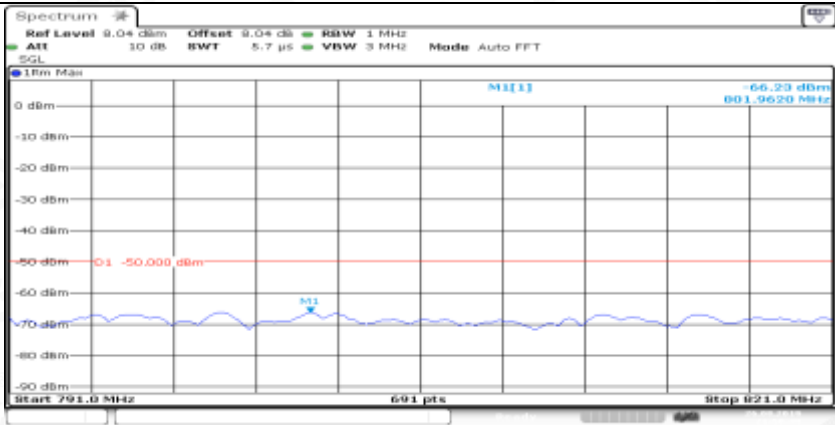
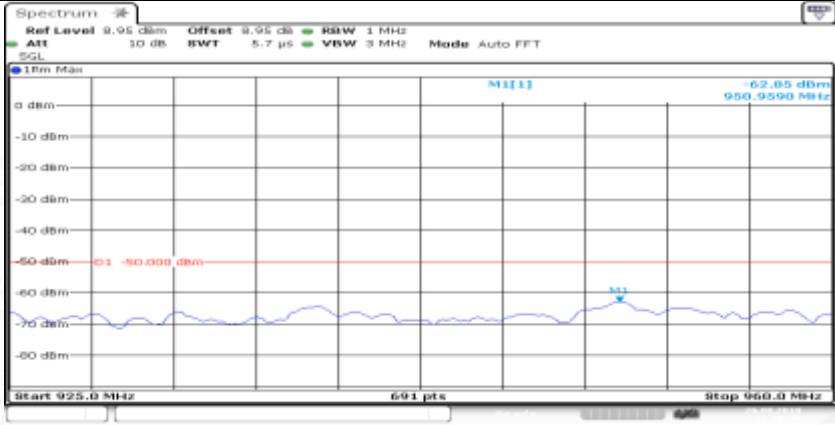

Co-existence	
Co-existence	
Co-existence	
Additional	NA

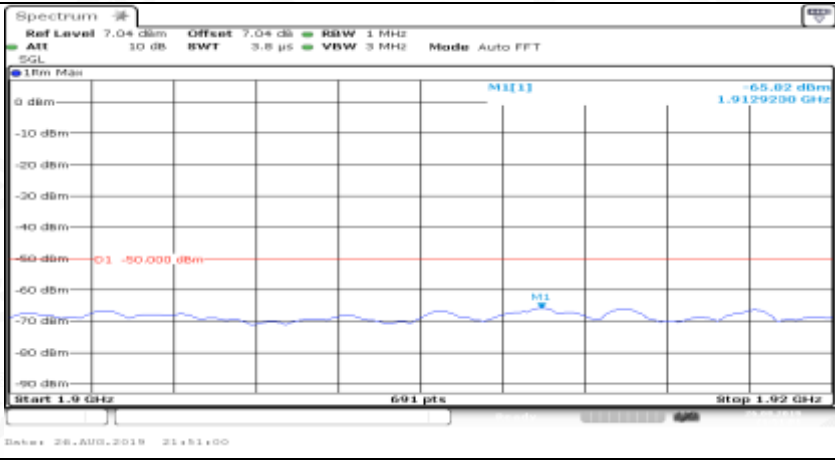
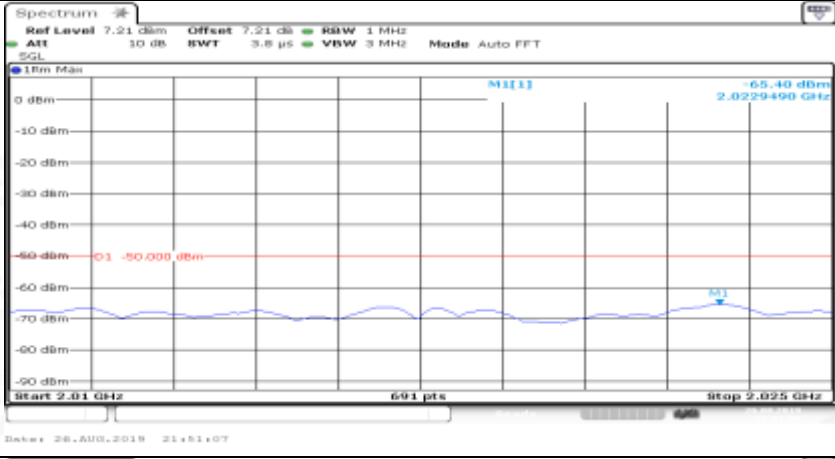
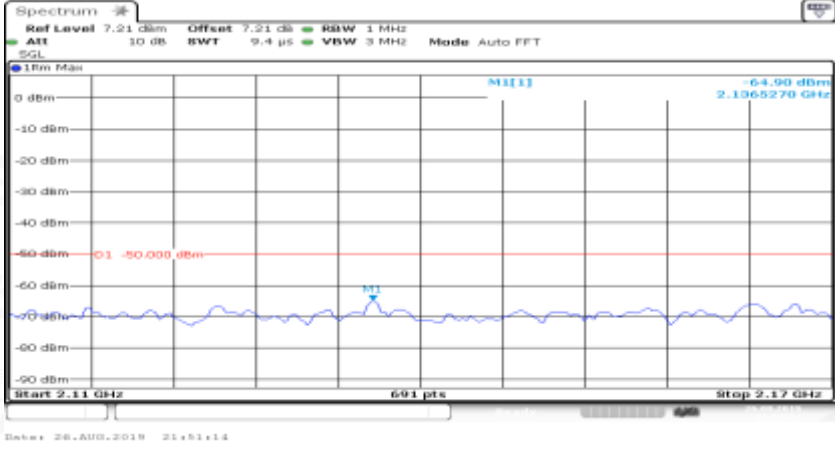
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0

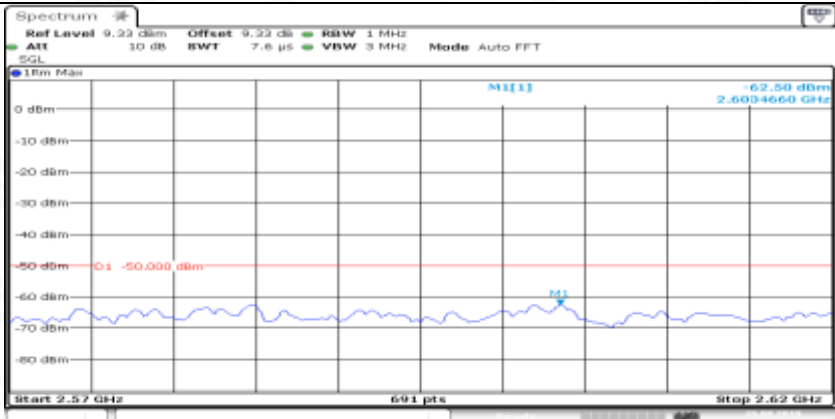
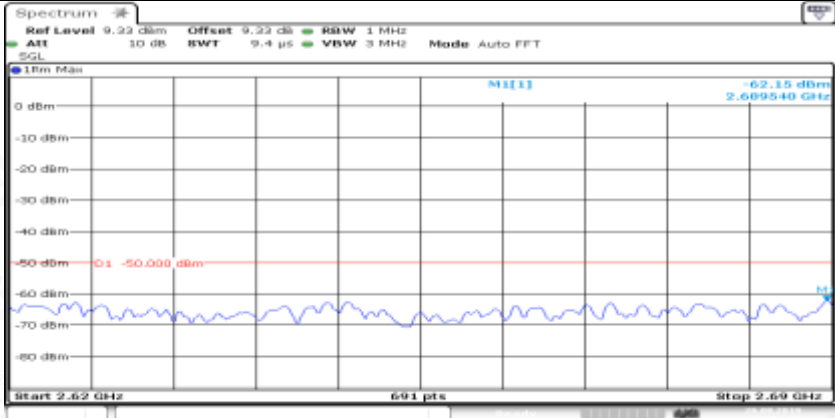
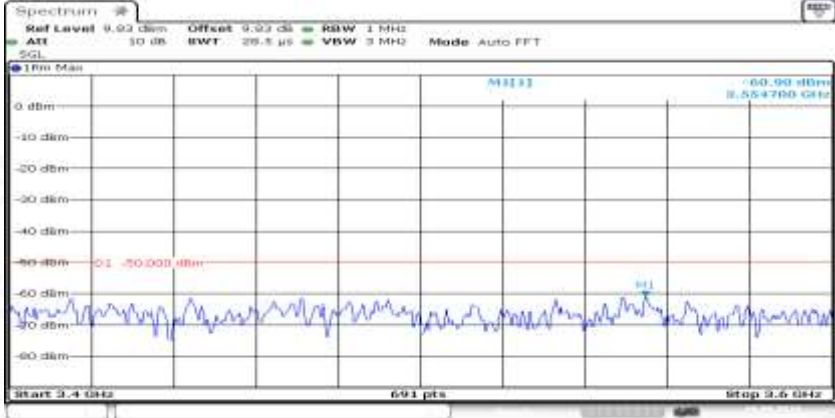
General	
General	
General	

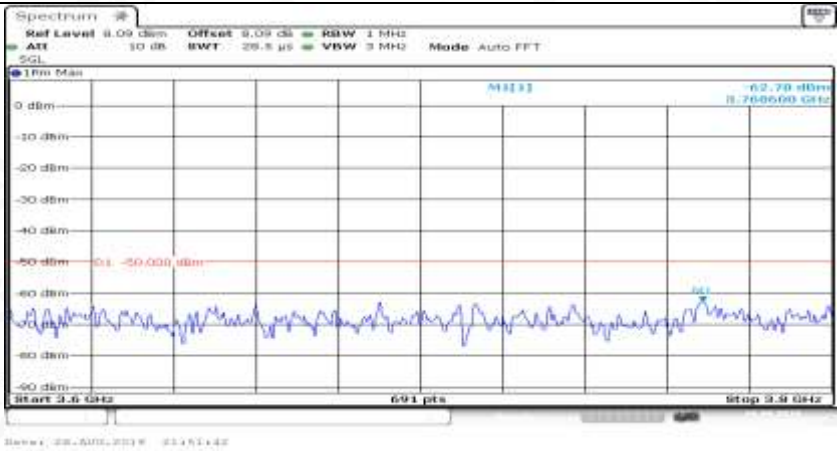


General	
General	
General	

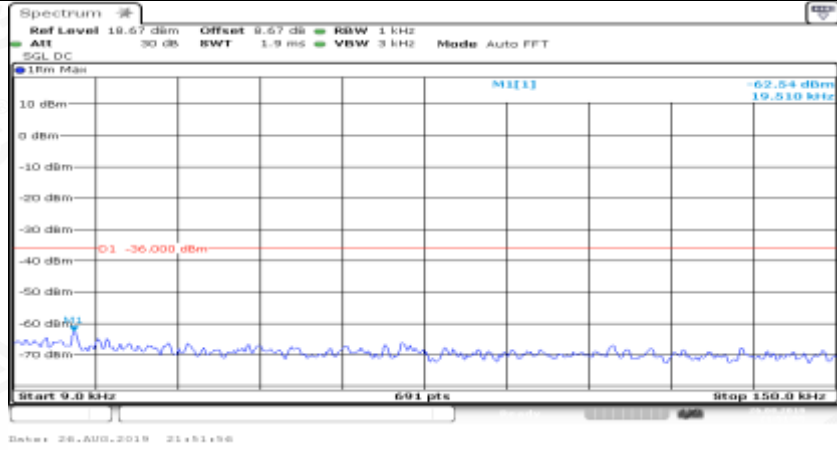
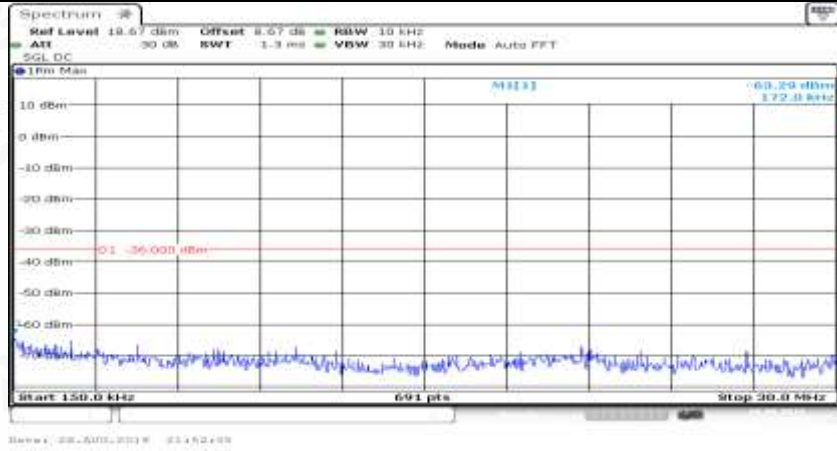
Co-existence	 <p>Ref Level 9.04 dBm Offset 9.04 dB RBW 1 MHz ATT 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -66.23 dBm 801.9620 MHz</p> <p>Start 791.0 MHz 691 pts Stop 821.0 MHz</p> <p>Date: 28.AUG.2019 21:50:40</p>
Co-existence	 <p>Ref Level 9.95 dBm Offset 9.95 dB RBW 1 MHz ATT 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -62.65 dBm 950.9590 MHz</p> <p>Start 925.0 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 28.AUG.2019 21:50:47</p>
Co-existence	 <p>Ref Level 6.79 dBm Offset 6.79 dB RBW 1 MHz ATT 10 dB BW 11.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -66.74 dBm 1.313190 GHz</p> <p>Start 1.305 GHz 691 pts Stop 1.315 GHz</p> <p>Date: 28.AUG.2019 22:15:14</p>

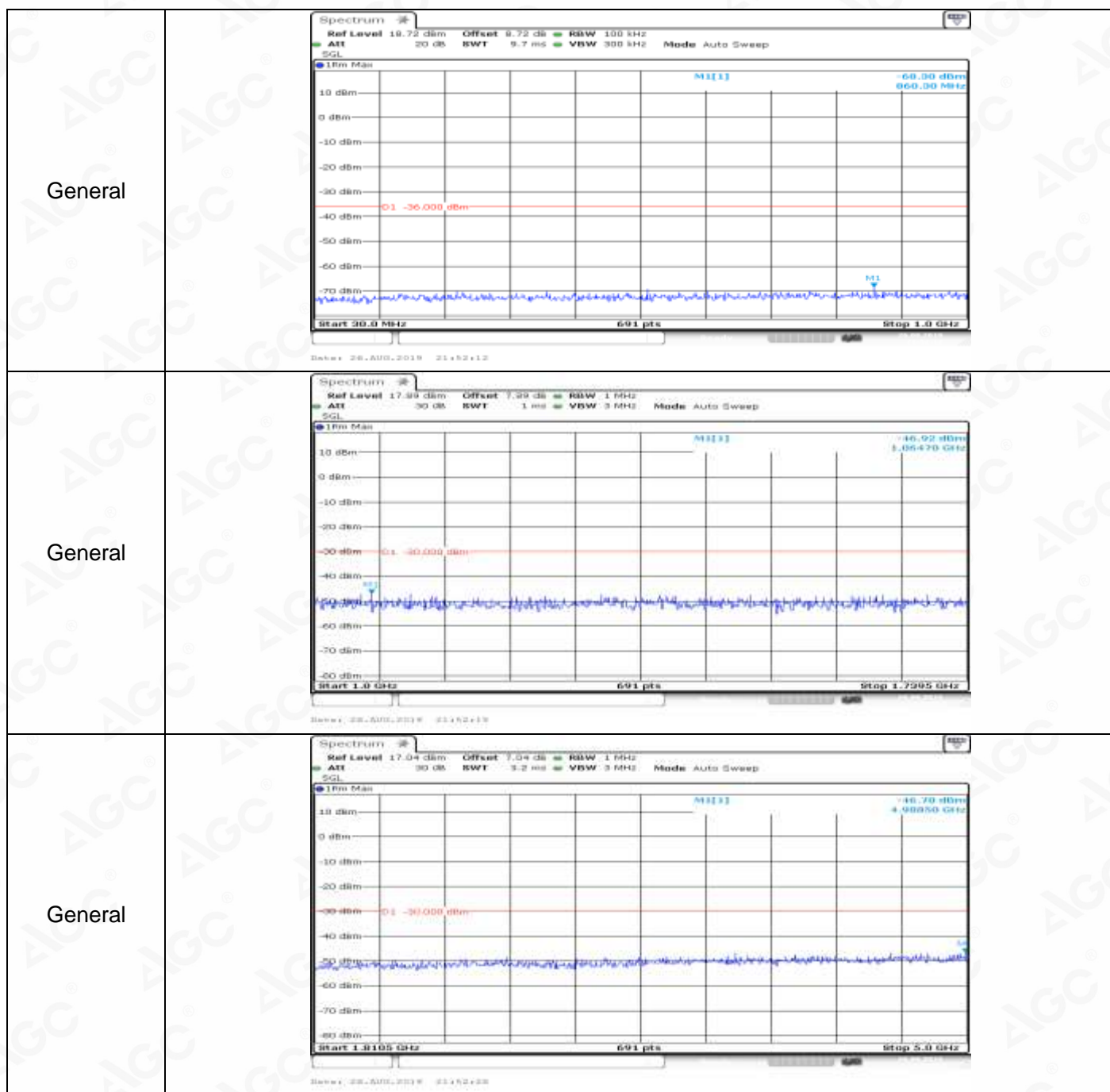
Co-existence	
Co-existence	
Co-existence	

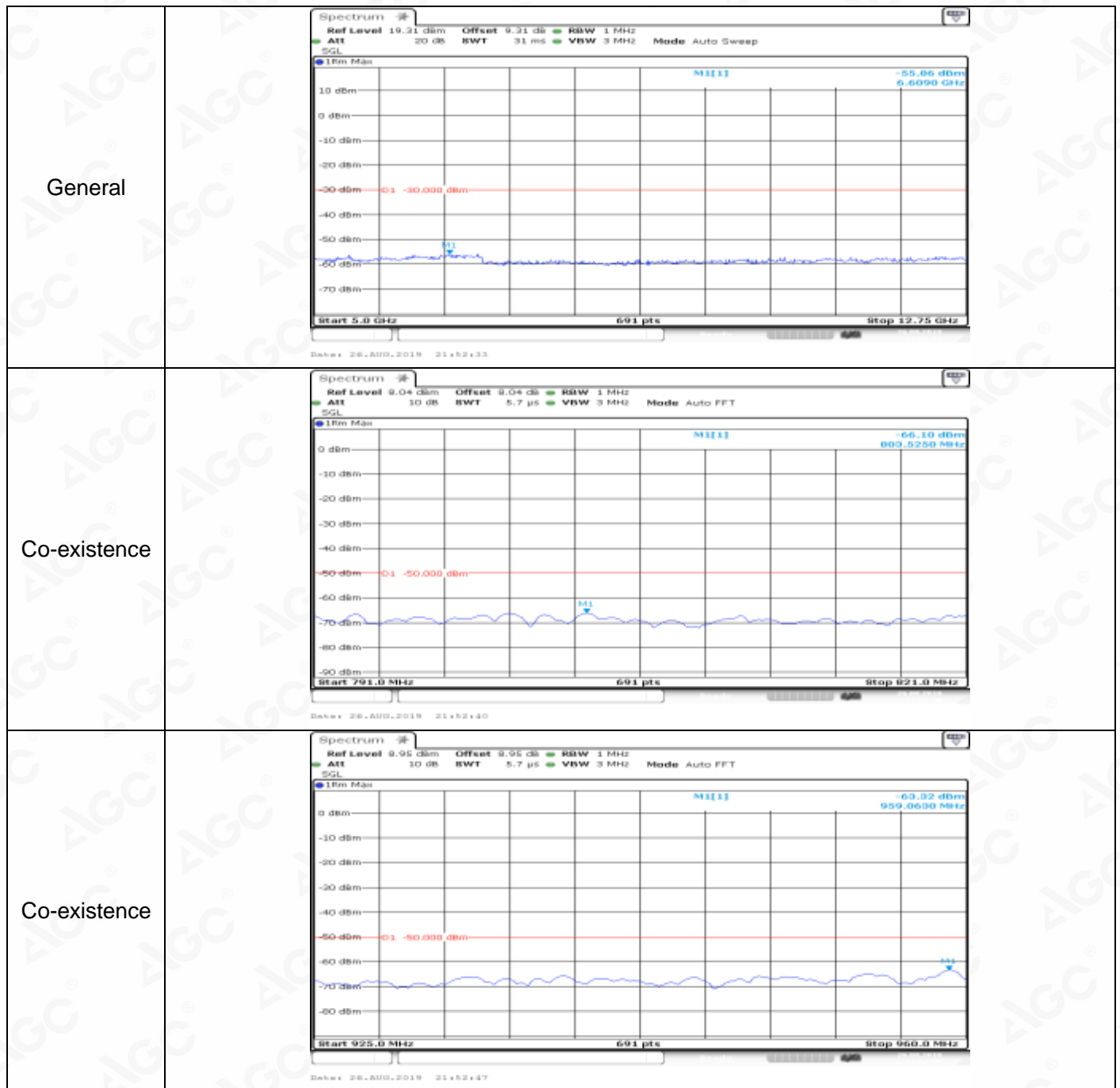
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz ATT 10 dB BW 7.6 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 2.57 GHz 691 pts Stop 2.62 GHz</p> <p>Peak 1: -62.50 dBm 2.6034660 GHz</p> <p>Marker: -50.000 dBm</p> <p>Date: 28.AUG.2019 21:51:21</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 2.62 GHz 691 pts Stop 2.69 GHz</p> <p>Peak 1: -62.15 dBm 2.689540 GHz</p> <p>Marker: -50.000 dBm</p> <p>Date: 28.AUG.2019 21:51:28</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz ATT 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 3.4 GHz 691 pts Stop 3.6 GHz</p> <p>Peak 1: -60.90 dBm 3.534750 GHz</p> <p>Marker: -50.000 dBm</p> <p>Date: 28.AUG.2019 21:51:30</p>


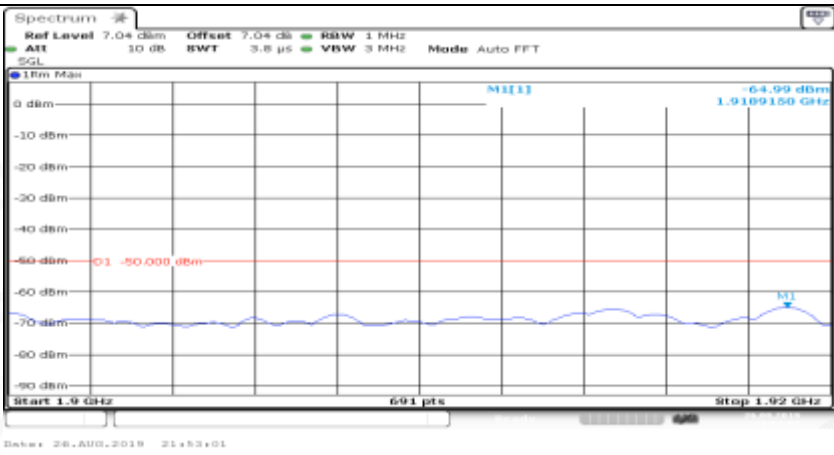
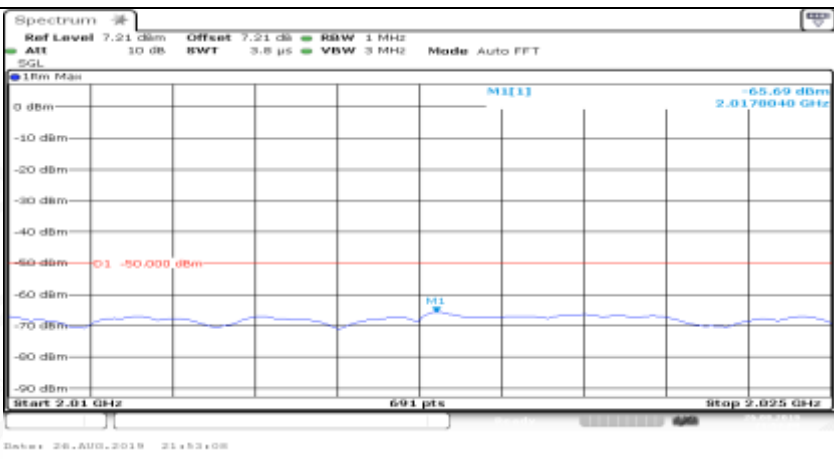
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

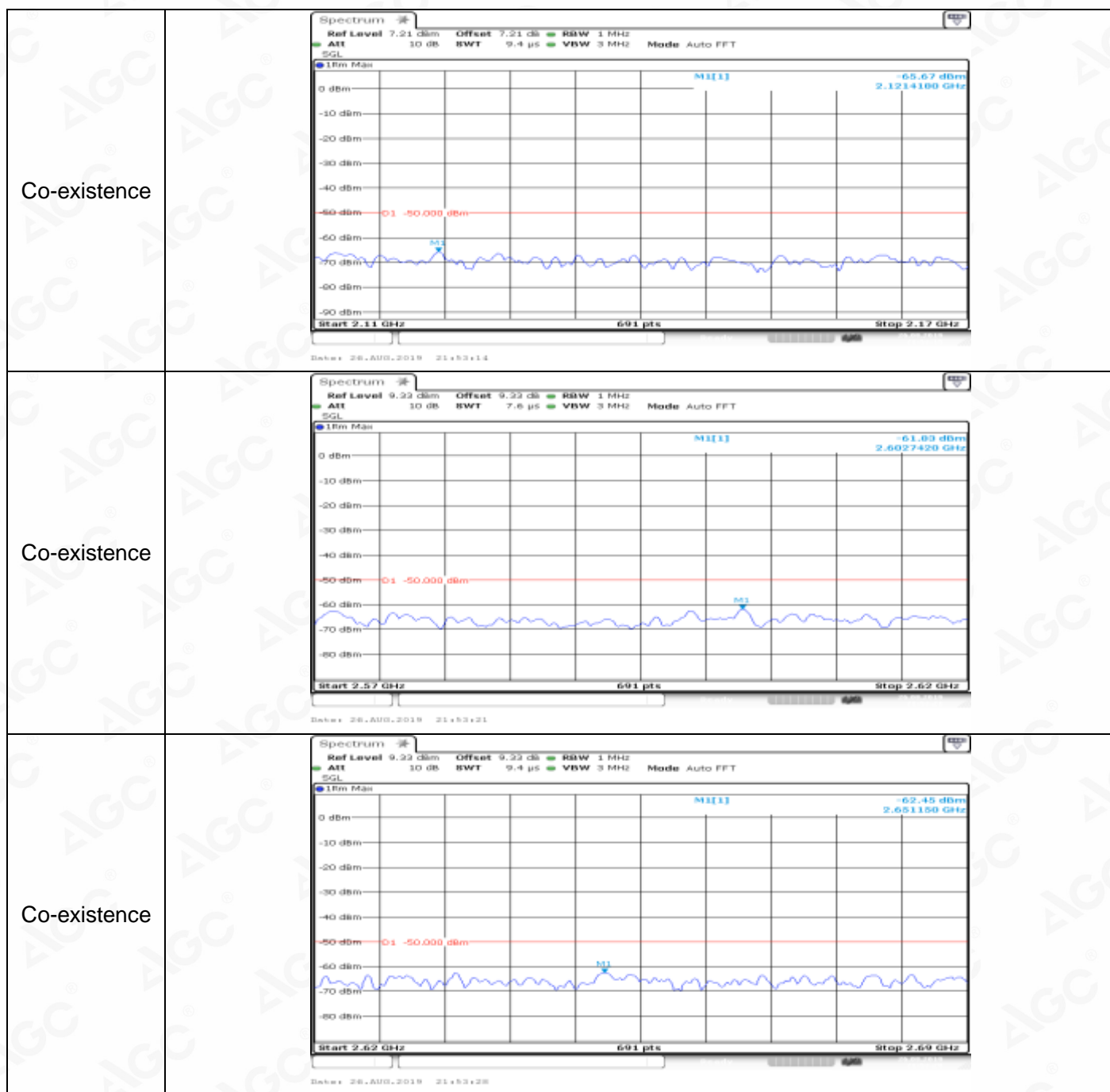
General	
General	

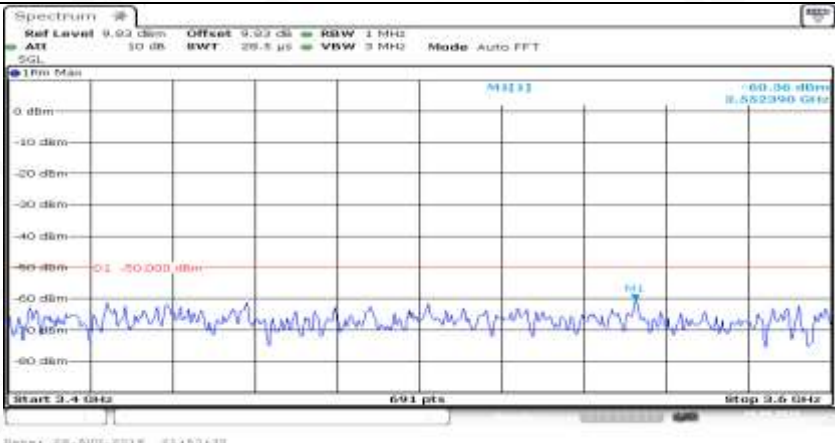
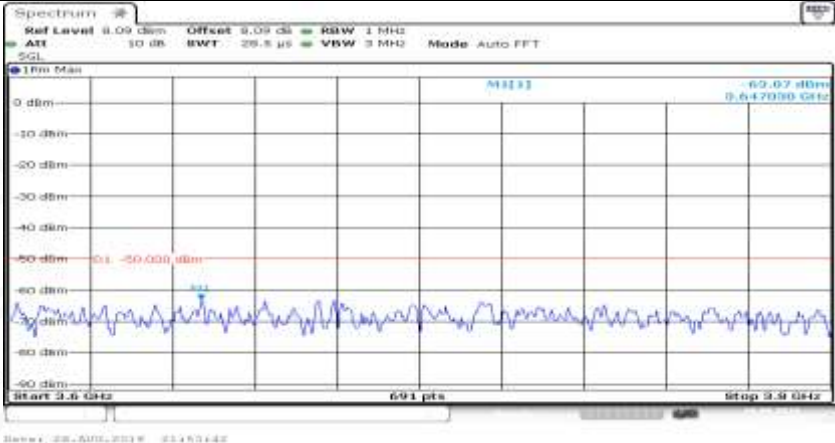


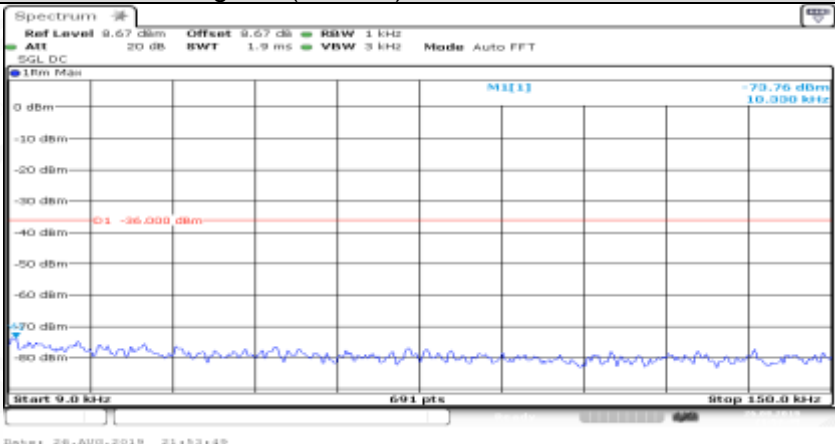


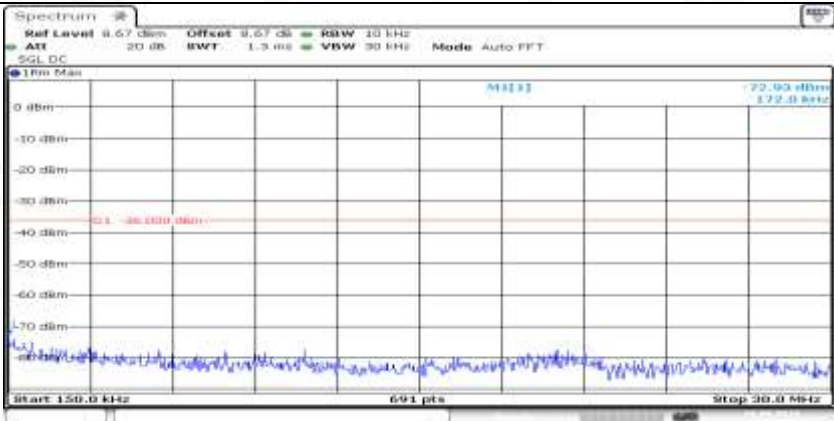
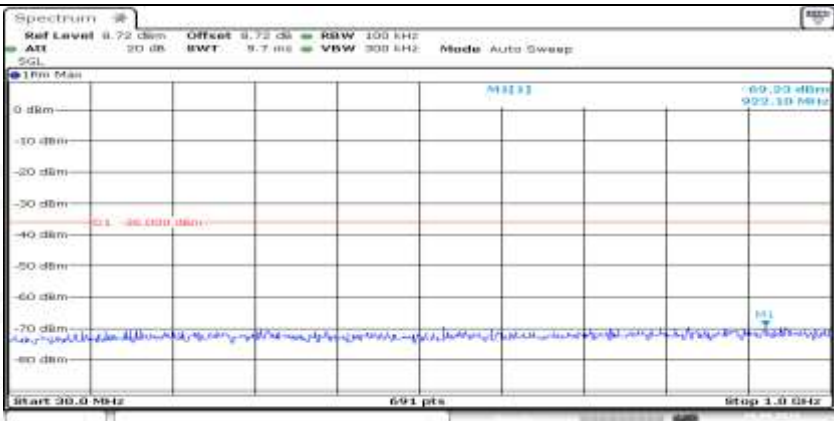
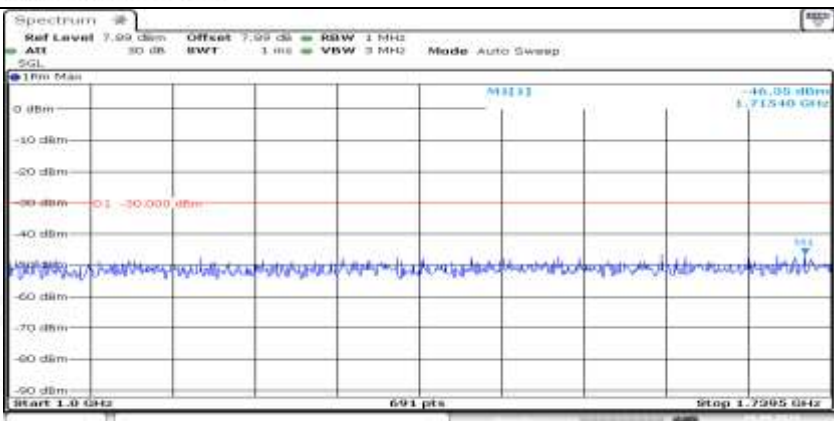
Co-existence	
Co-existence	
Co-existence	



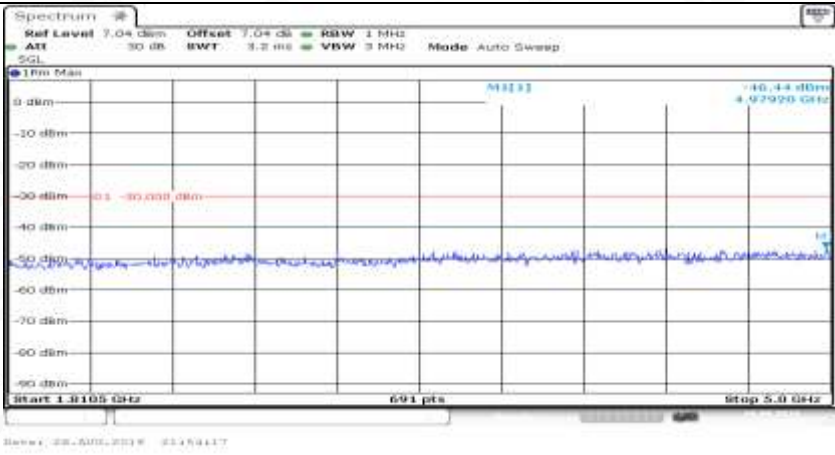
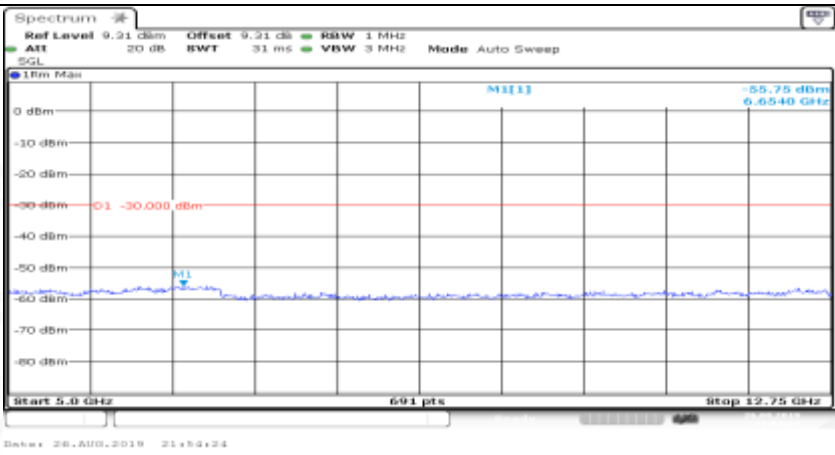
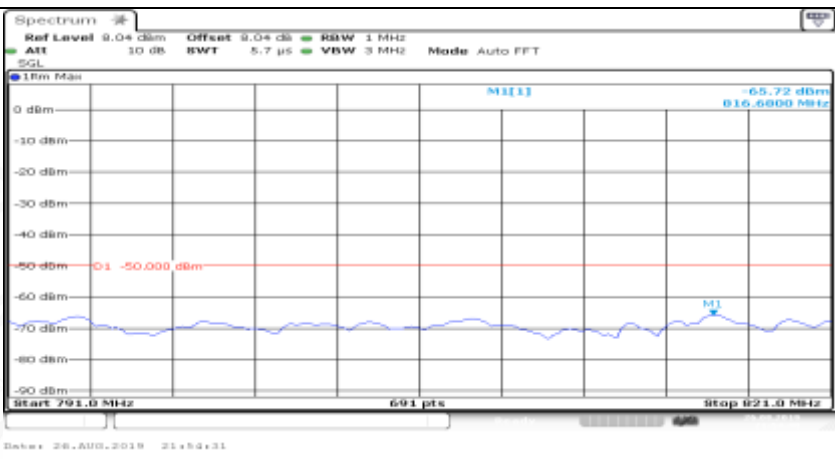


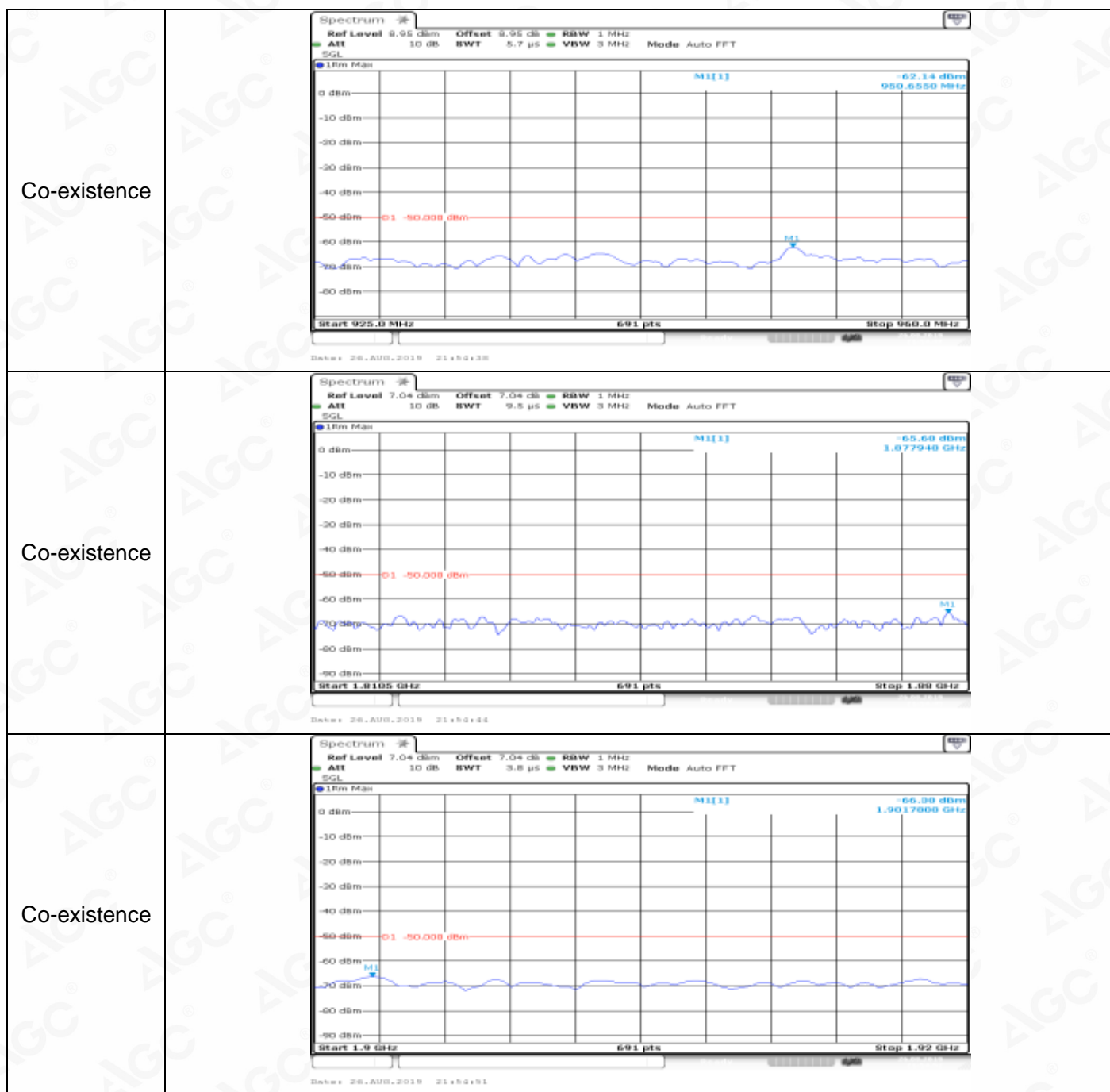
Co-existence	
Co-existence	
Additional	NA

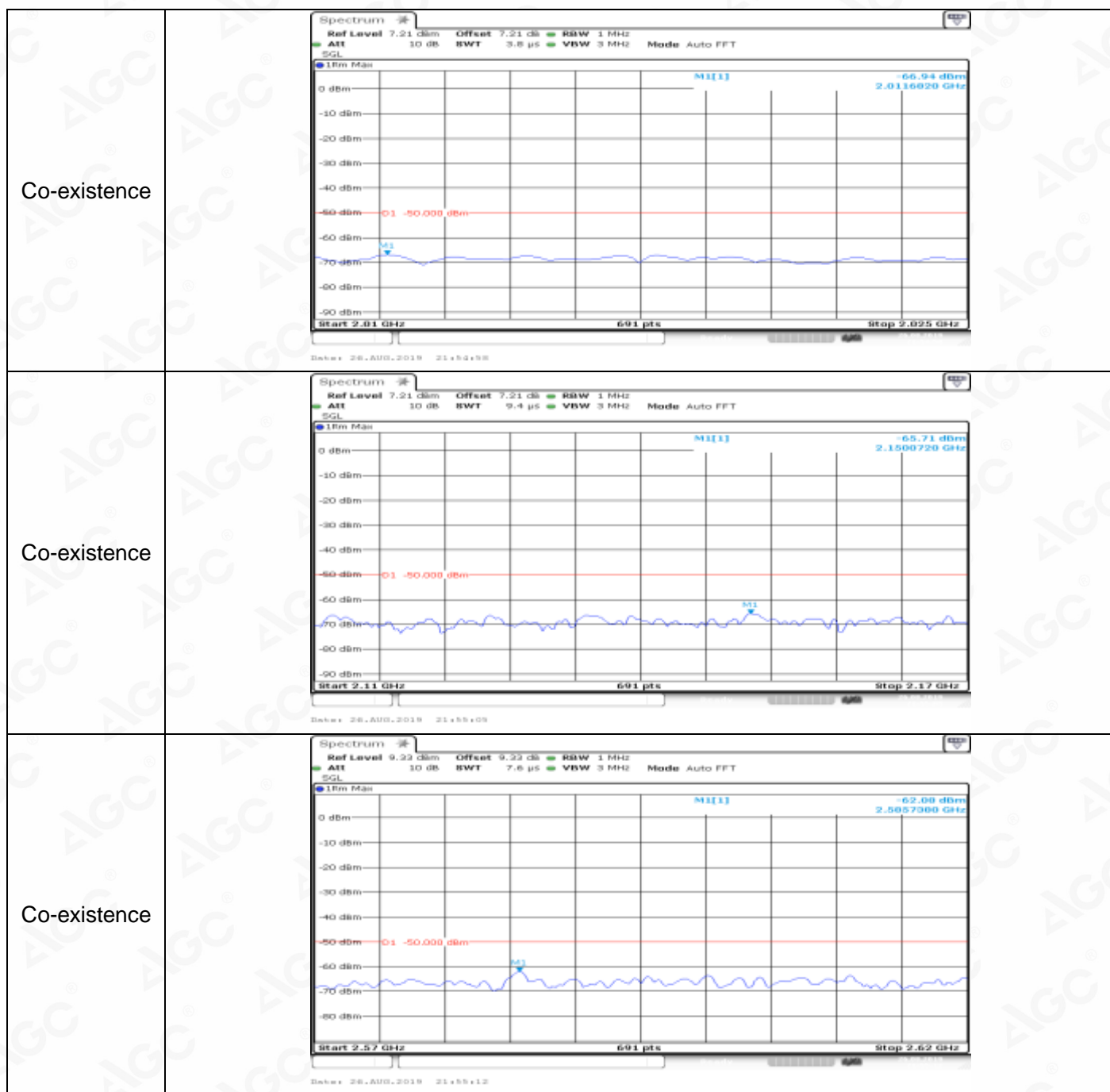
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	

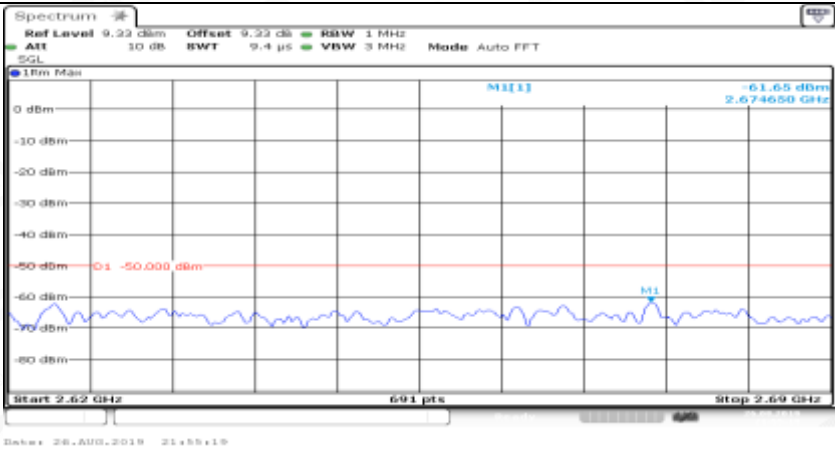
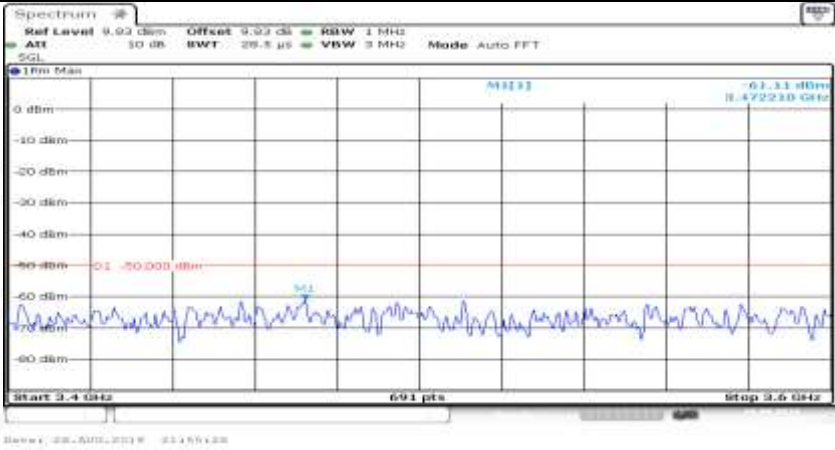
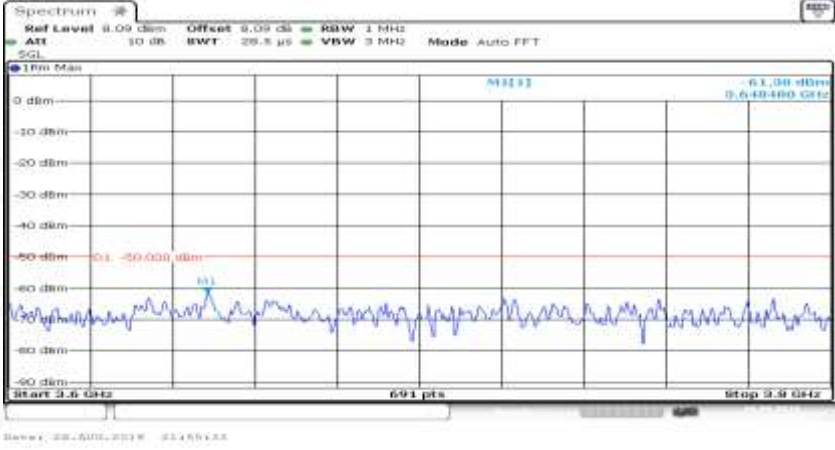
General	 <p>Spectrum plot showing a signal at -72.90 dBm. The plot includes parameters: Ref Level 8.67 dBm, Offset 8.67 dB, RBW 10 kHz, ATT 20 dB, BW 1.3 MHz, VBW 30 kHz, Mode Auto FFT. The x-axis ranges from 150.0 kHz to 30.0 MHz, and the y-axis ranges from 0 dBm to -80 dBm. The signal is labeled M1133.</p>
General	 <p>Spectrum plot showing a signal at -69.90 dBm. The plot includes parameters: Ref Level 8.72 dBm, Offset 8.72 dB, RBW 100 kHz, ATT 20 dB, BW 9.7 MHz, VBW 300 kHz, Mode Auto Sweep. The x-axis ranges from 30.0 MHz to 1.0 GHz, and the y-axis ranges from 0 dBm to -80 dBm. The signal is labeled M1133.</p>
General	 <p>Spectrum plot showing a signal at -46.00 dBm. The plot includes parameters: Ref Level 7.09 dBm, Offset 7.09 dB, RBW 1 MHz, ATT 30 dB, BW 1 MHz, VBW 3 MHz, Mode Auto Sweep. The x-axis ranges from 1.0 GHz to 1.7505 GHz, and the y-axis ranges from 0 dBm to -80 dBm. The signal is labeled M1133.</p>



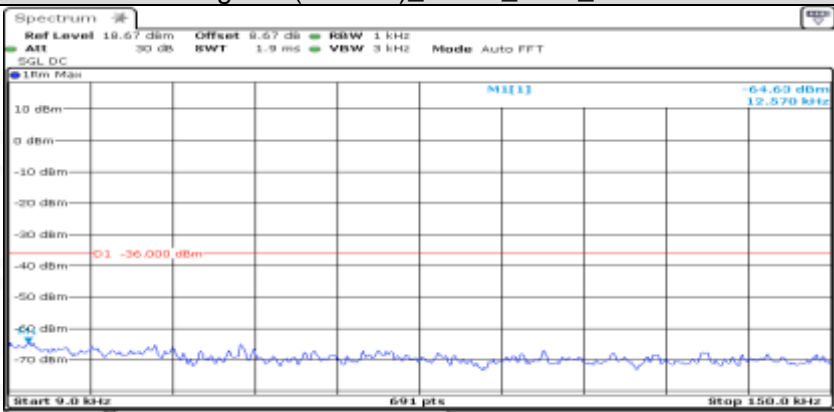
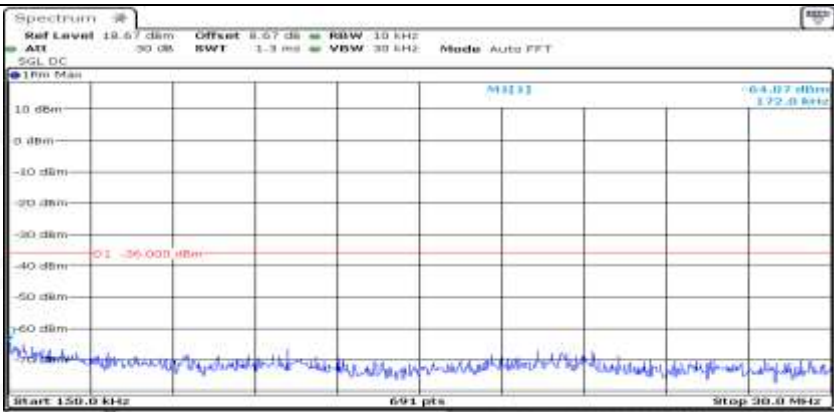
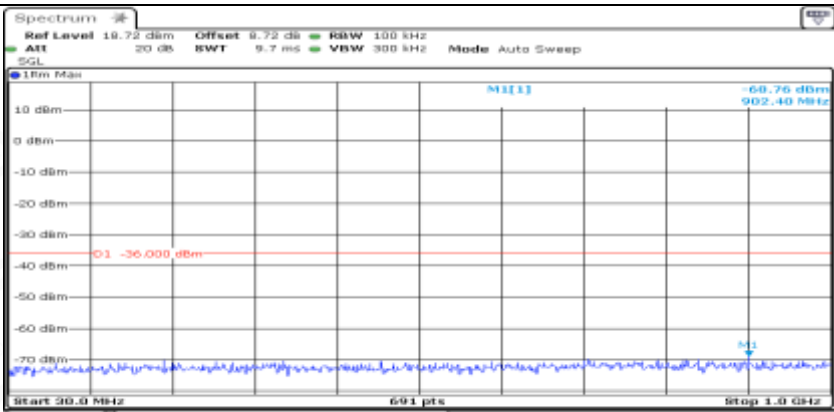
General	
General	
Co-existence	



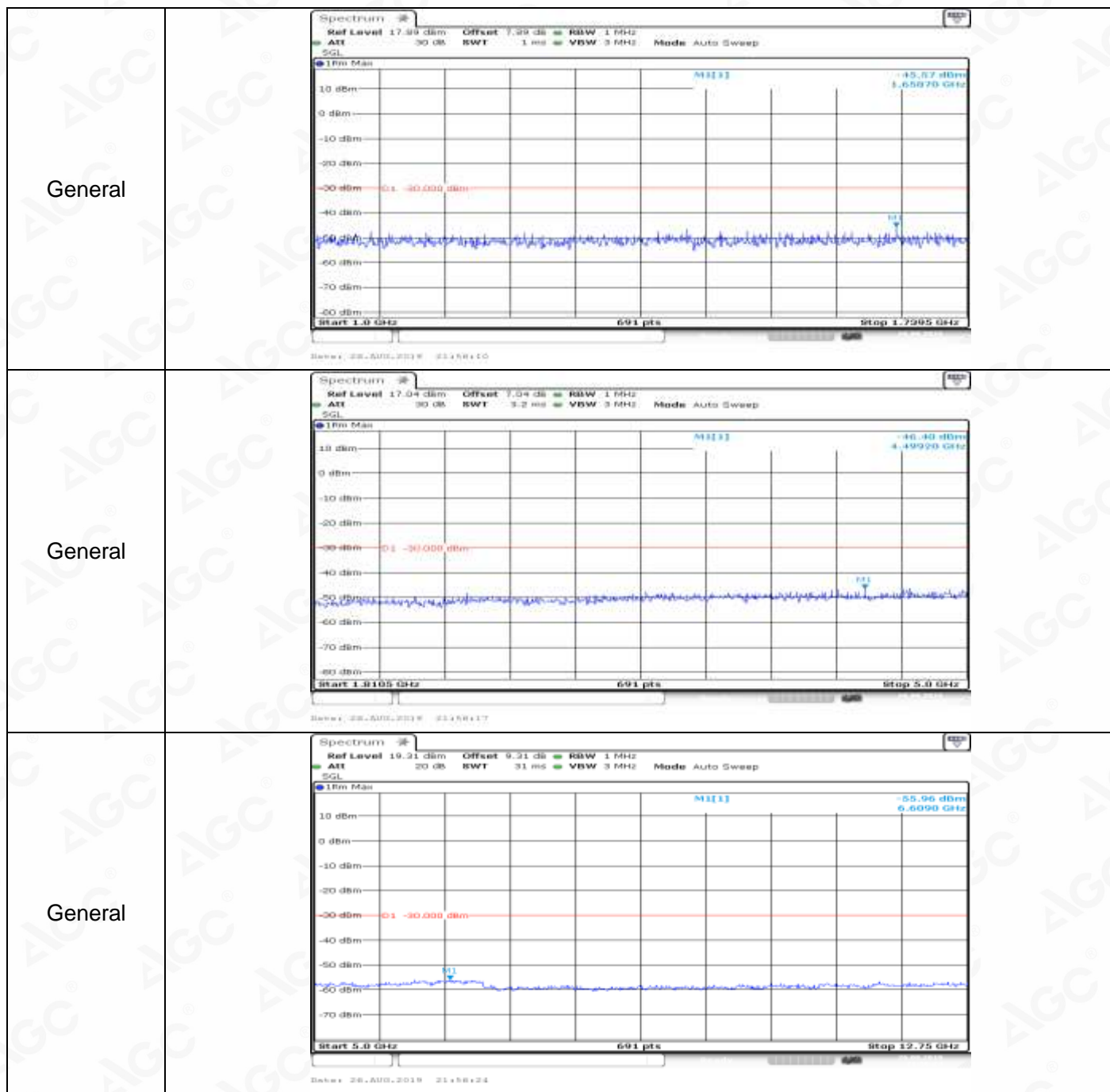


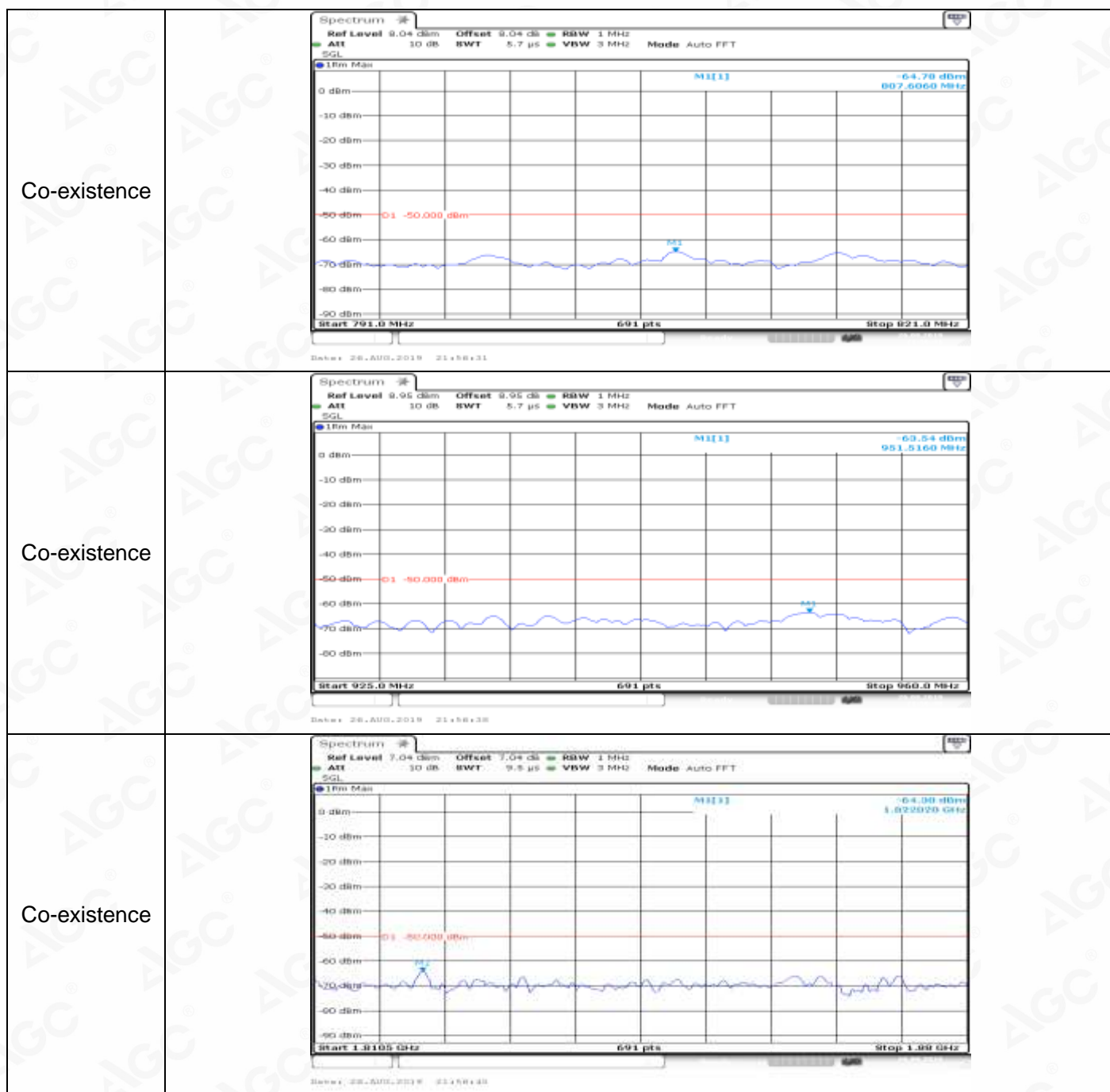
Co-existence	
Co-existence	
Co-existence	
Additional	NA

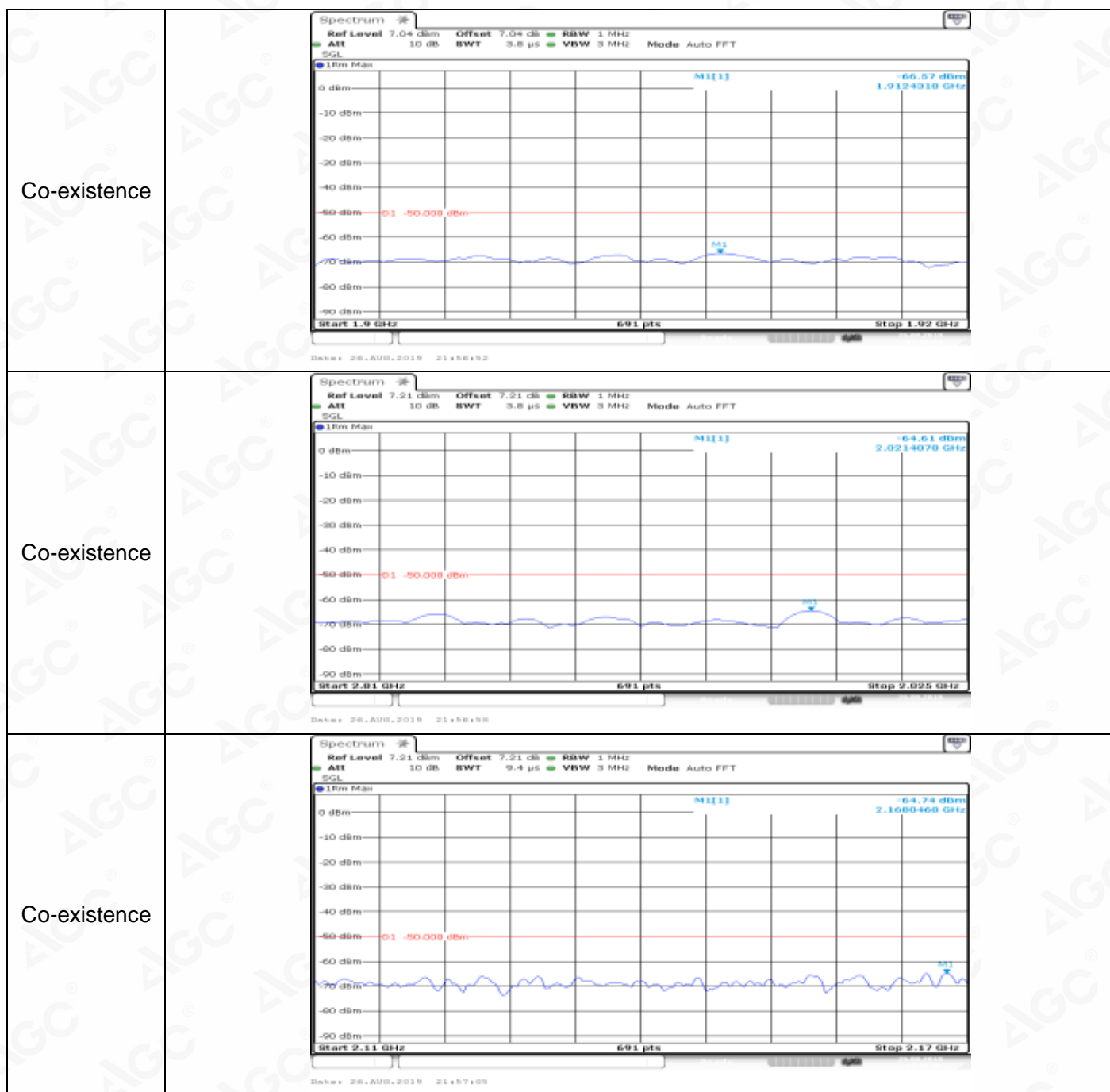
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullRB#0

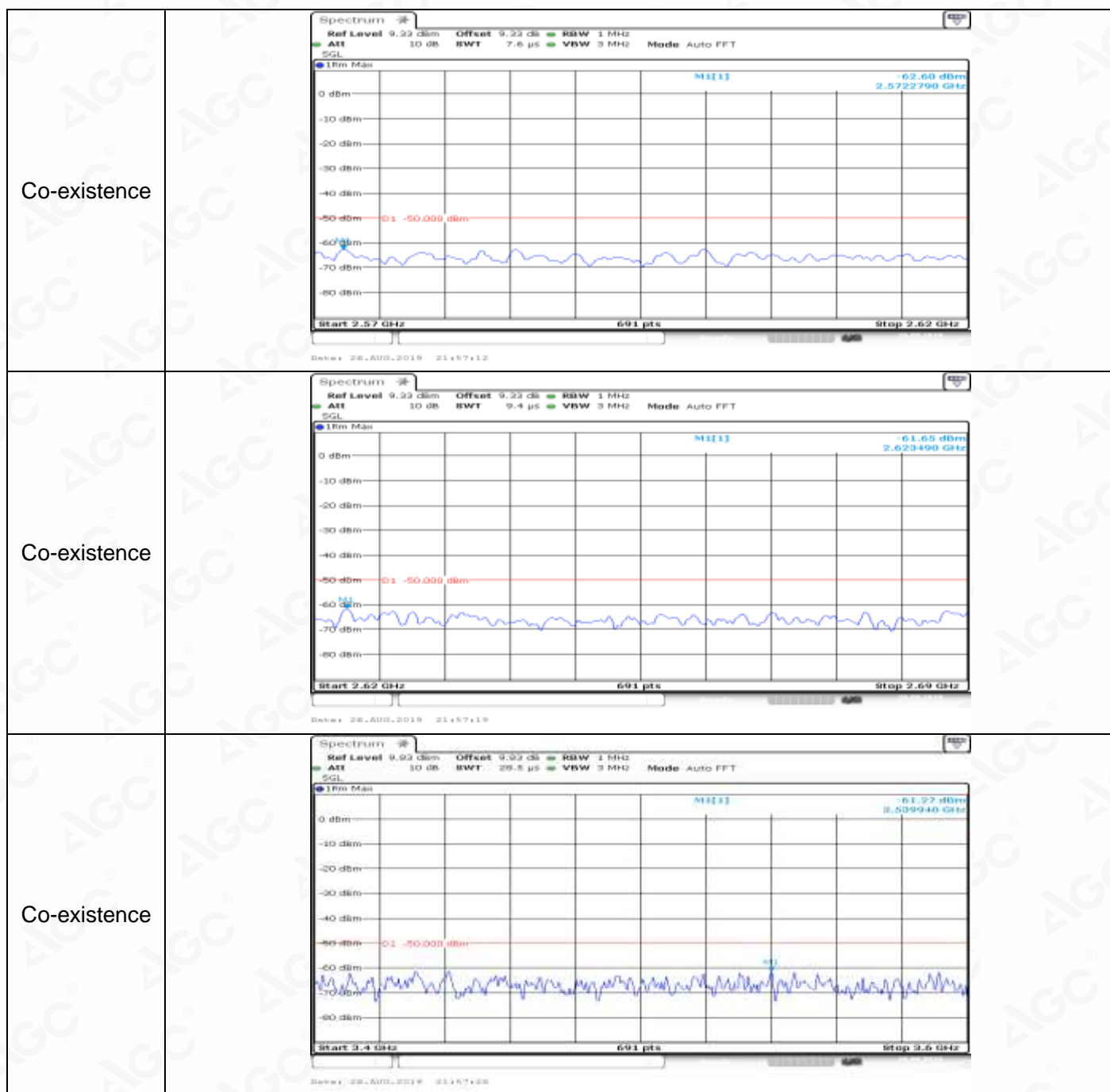
General	
General	
General	

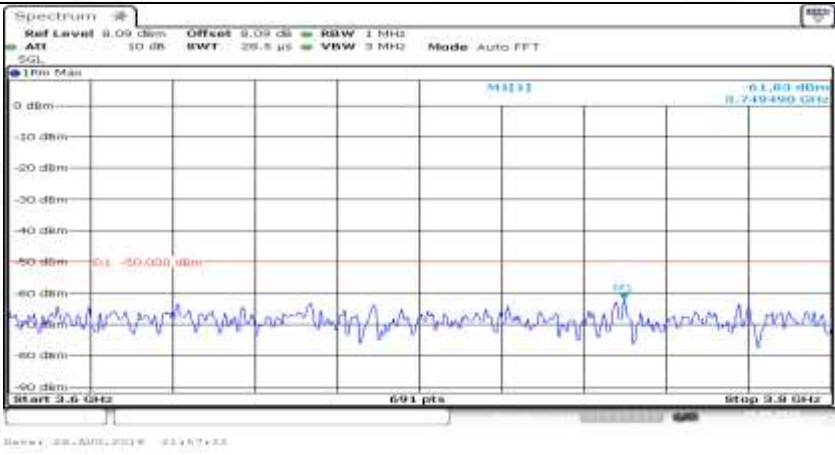










Co-existence	
Additional	NA

6. Receiver Spurious Emissions

Test Result

NTNV

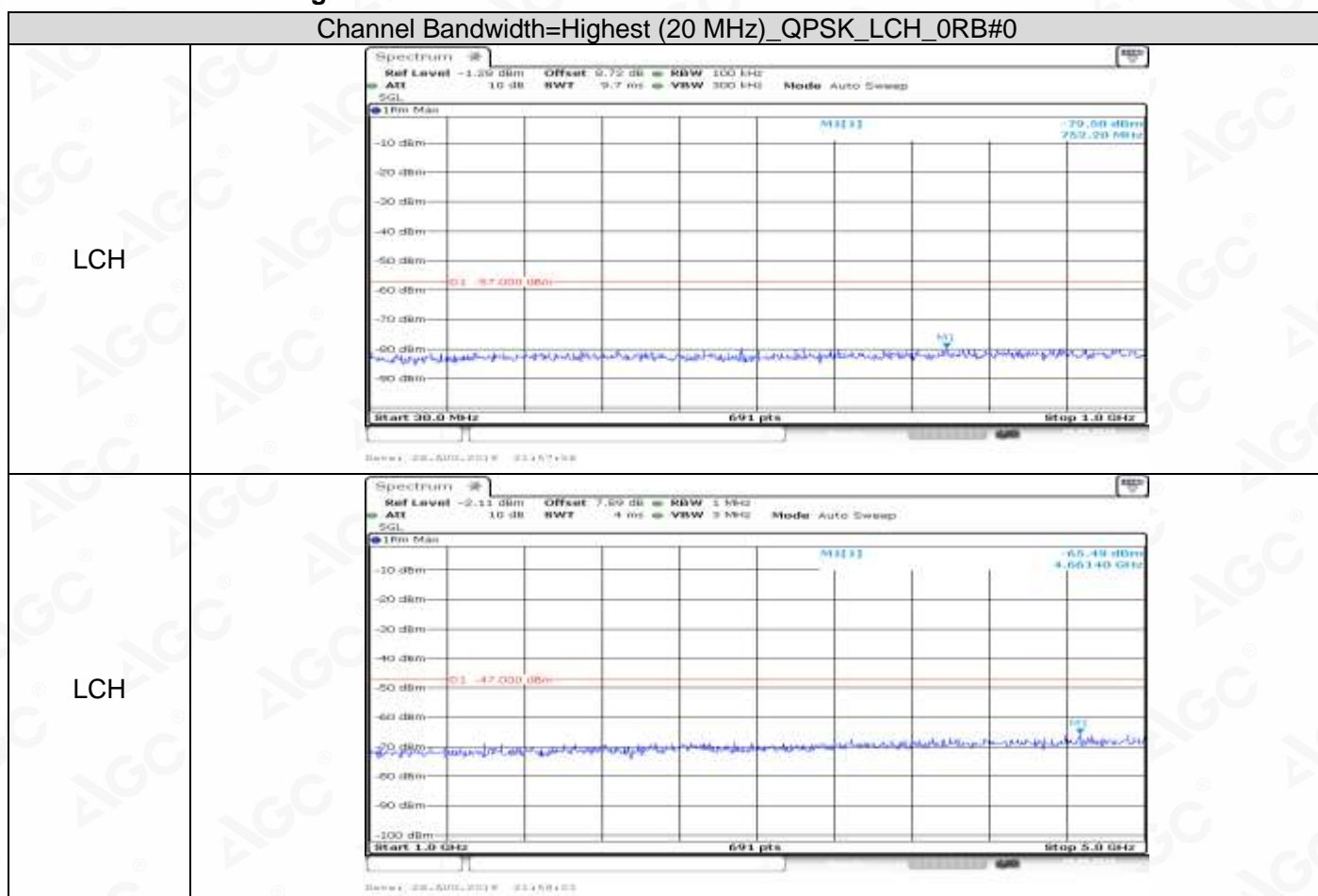
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest



Attestation of Global Compliance

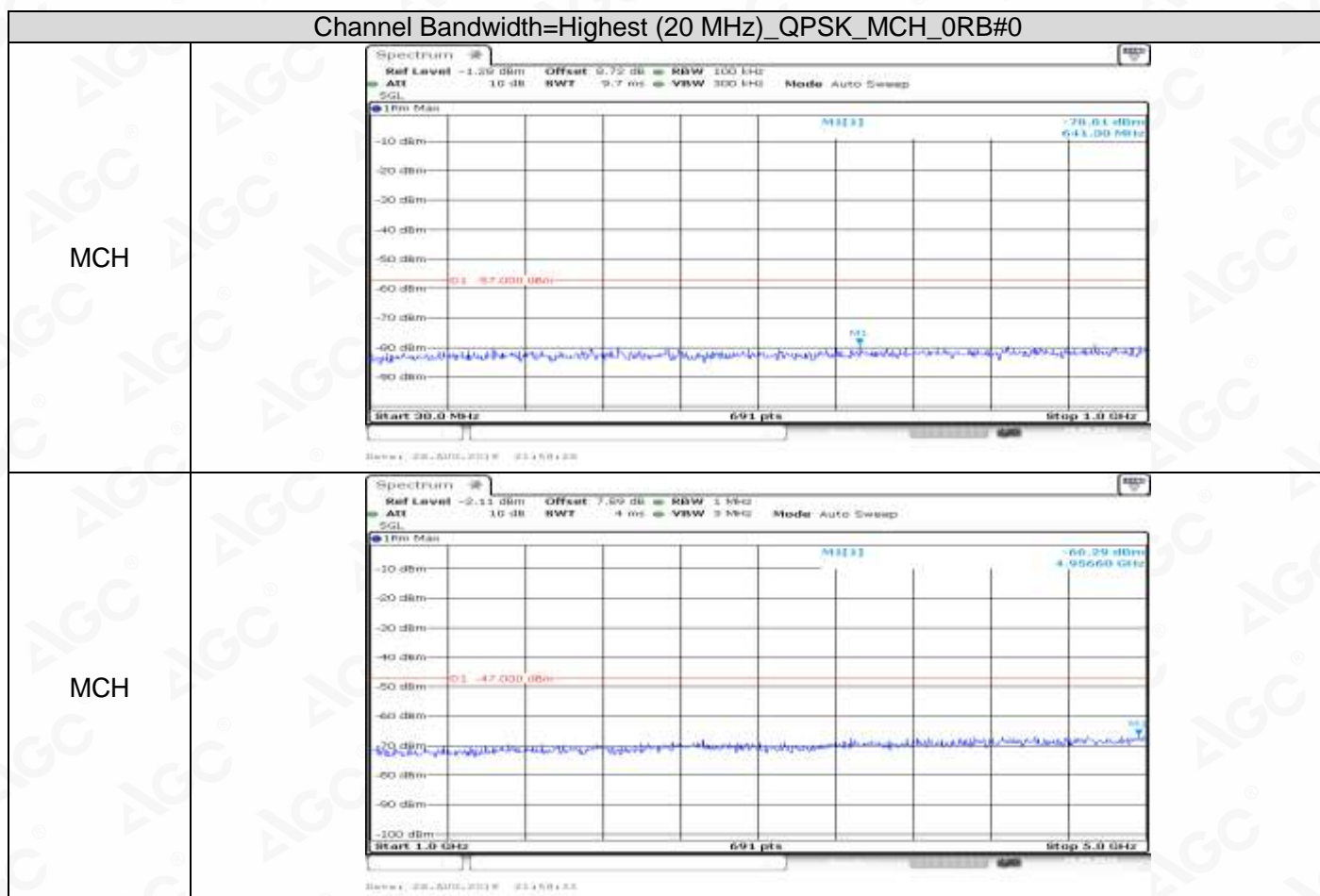
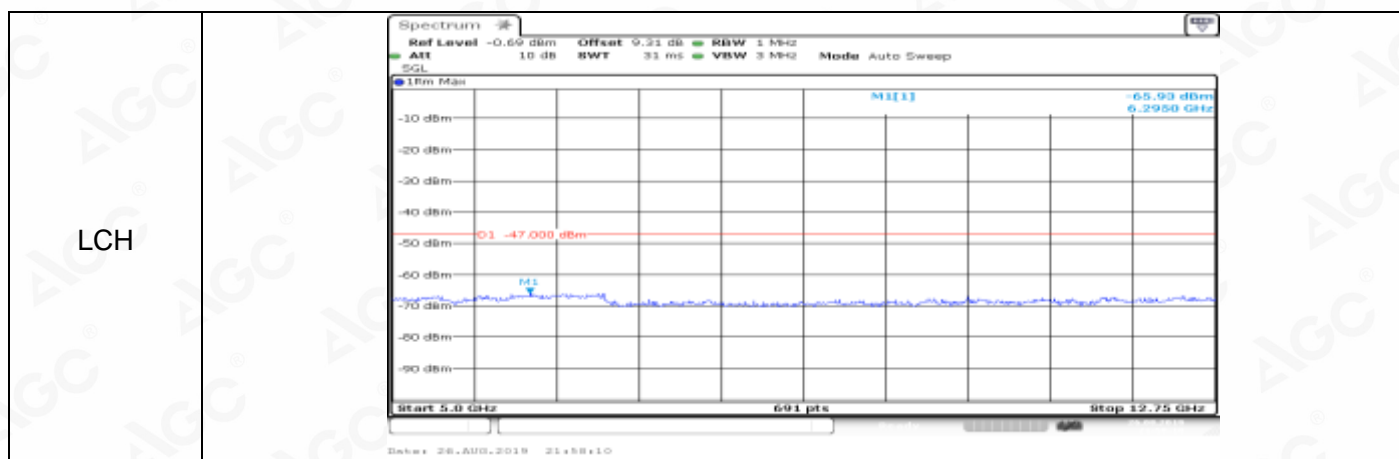
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

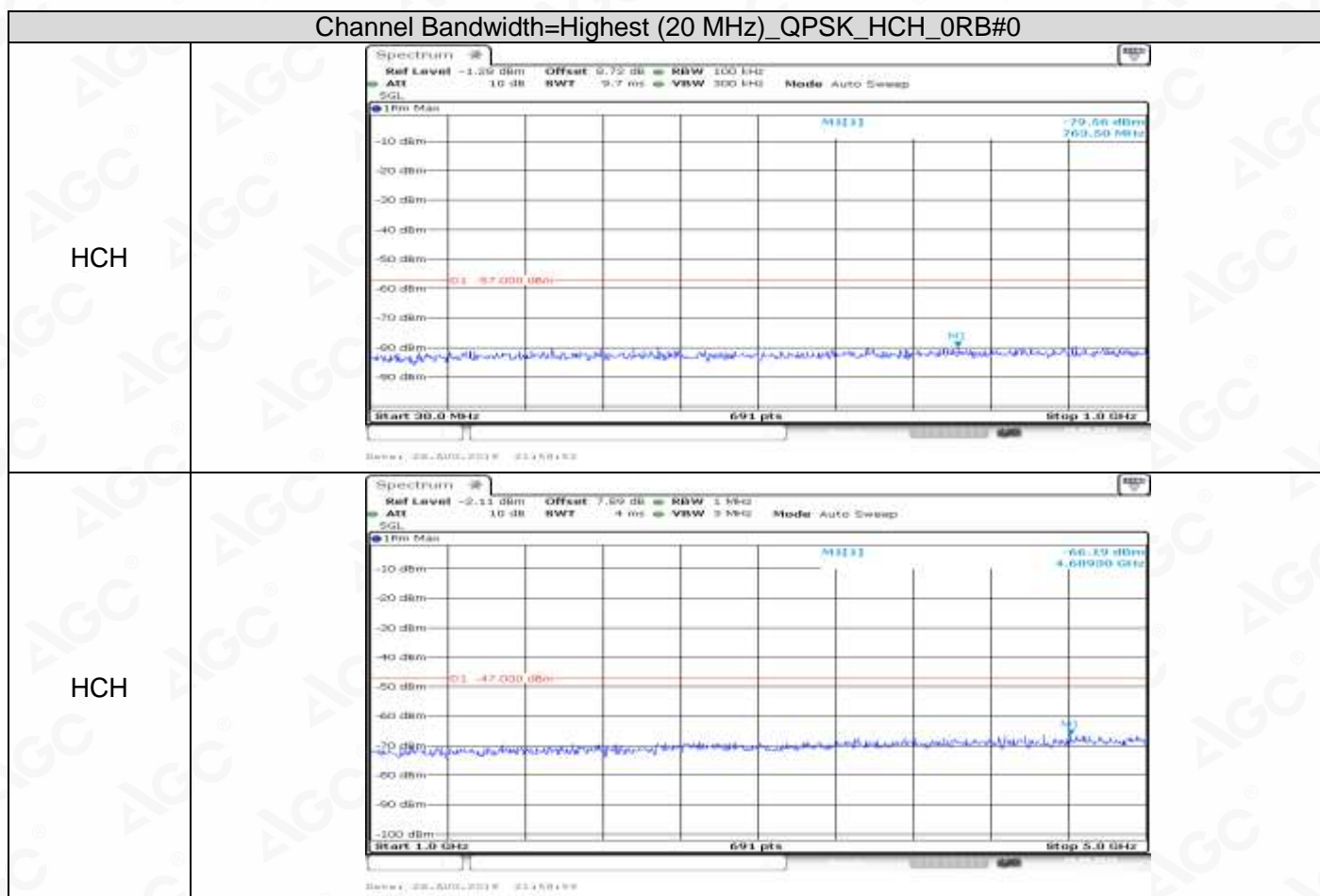
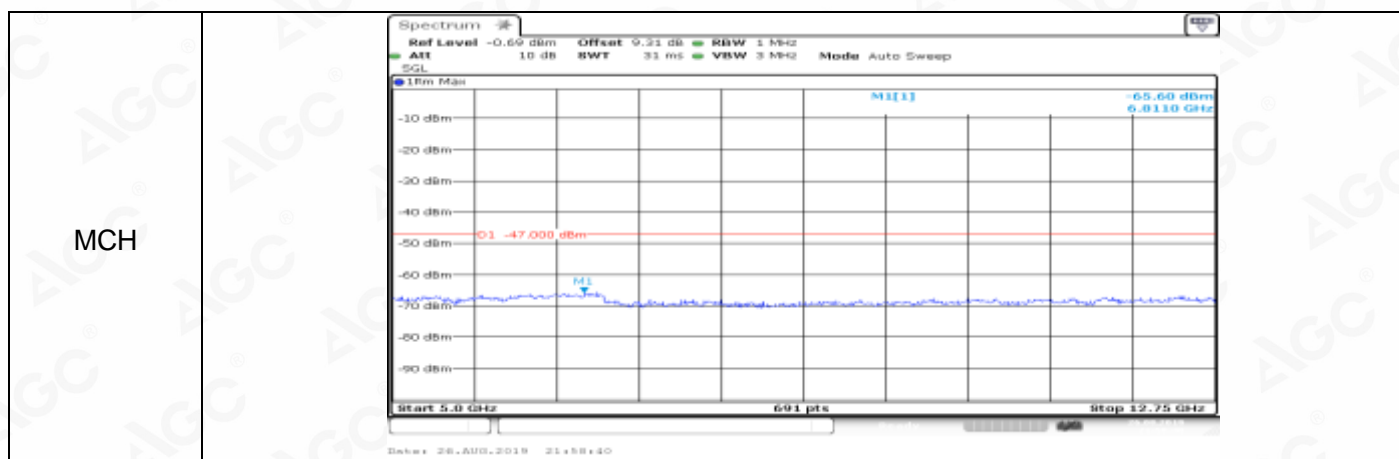
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

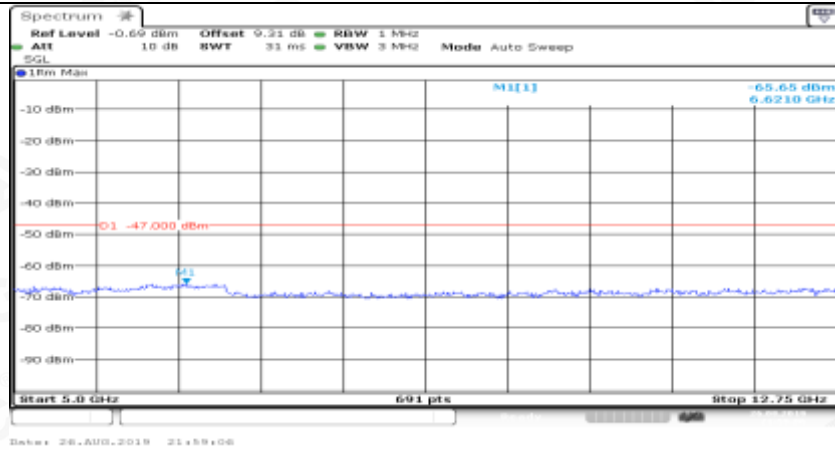
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118





HCH



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				



8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	$\geq 95 \%$
5MHz	QPSK	Full	QPSK	15,20,25	$\geq 95 \%$
20MHz	QPSK	Full	QPSK	50	$\geq 95 \%$
Verdict	Pass				

Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC			
Test Frequencies		Mid range			
Test Channel Bandwidths		Lowest, 1.4MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration				Downlink Configuration
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK
5MHz	QPSK	10MHz	QPSK	5MHz	QPSK
20MHz	QPSK	20MHz	QPSK	20MHz	QPSK
Verdict	Pass				



9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				



10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band		Band 3				
Test Environment		NC				
Test Frequencies		Mid range				
Test Channel Bandwidths		Lowest, 1.4MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths						
	Downlink Configuration				Downlink Configuration	
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n	Ch BW
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz
5MHz	QPSK	5MHz	QPSK	5MHz	QPSK	10MHz
20MHz	QPSK	20MHz	QPSK	20MHz	QPSK	20MHz
Verdict	Pass					



11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

	Test Band			Band 3			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 20MHz			
Test Parameters for Channel Bandwidths							
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	Pass	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	Pass	≥ 95 %
	Verdict	Pass					



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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-69.75	-70.04	-70.42
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-66.89	-67.25	-67.70
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-67.21	-67.72	-68.25



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Appendix for C Band 7

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	22.81	Pass
					max	22.79	Pass
				Partial	0	22.85	Pass
					max	22.86	Pass
			Mid range	1	0	22.89	Pass
					max	22.90	Pass
				Partial	0	22.92	Pass
					max	23.01	Pass
			High range	1	0	23.17	Pass
					max	23.24	Pass
				Partial	0	23.26	Pass
					max	23.35	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	1	0	Void	Pass
					max	Void	Pass
				Partial	0	Void	Pass
					max	Void	Pass
			Mid range	1	0	Void	Pass
					max	Void	Pass
				Partial	0	Void	Pass
					max	Void	Pass
			High range	1	0	Void	Pass
					max	Void	Pass
				Partial	0	Void	Pass
					max	Void	Pass



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Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	22.79	Pass
					max	22.84	Pass
				Partial	0	22.76	Pass
					max	22.83	Pass
			Mid range	1	0	22.88	Pass
					max	22.97	Pass
				Partial	0	22.75	Pass
					max	22.60	Pass
			High range	1	0	22.46	Pass
					max	22.61	Pass
				Partial	0	22.63	Pass
					max	22.71	Pass



2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-48.66	Pass
			Mid range	Full	0	-51.16	Pass
			High range	Full	0	-50.61	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20MHz	Low range	Full	0	-50.36	Pass
			Mid range	Full	0	-50.44	Pass
			High range	Full	0	-49.98	Pass



3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full			0	PUMAX	Pass	
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



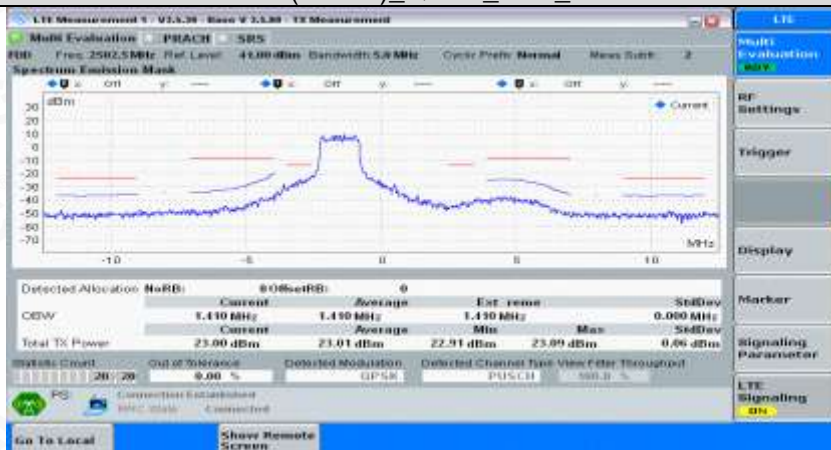
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

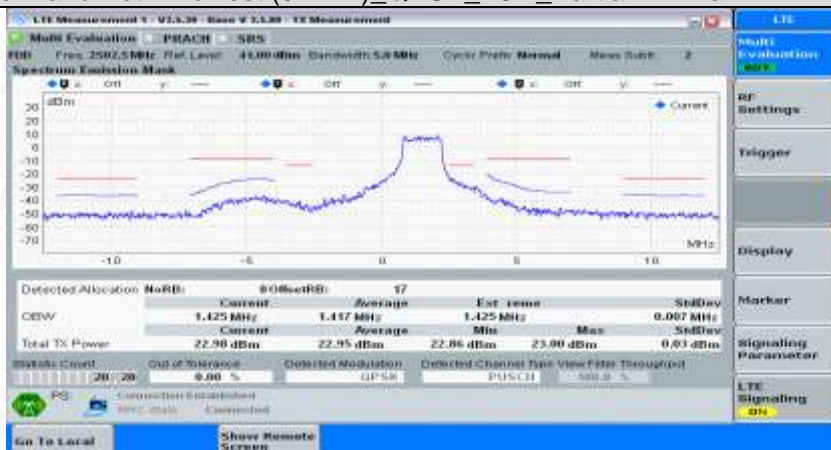
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QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

QPSK

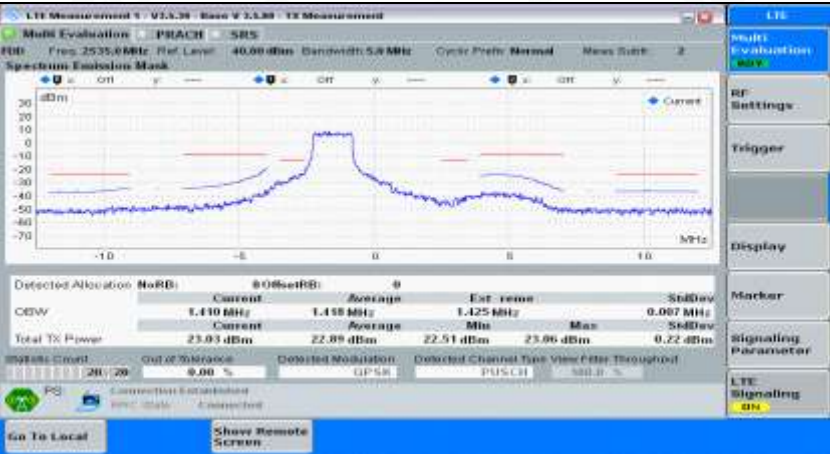
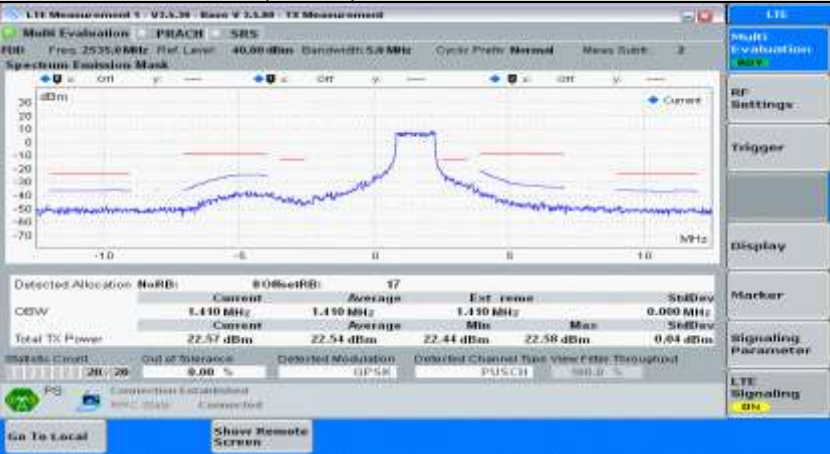
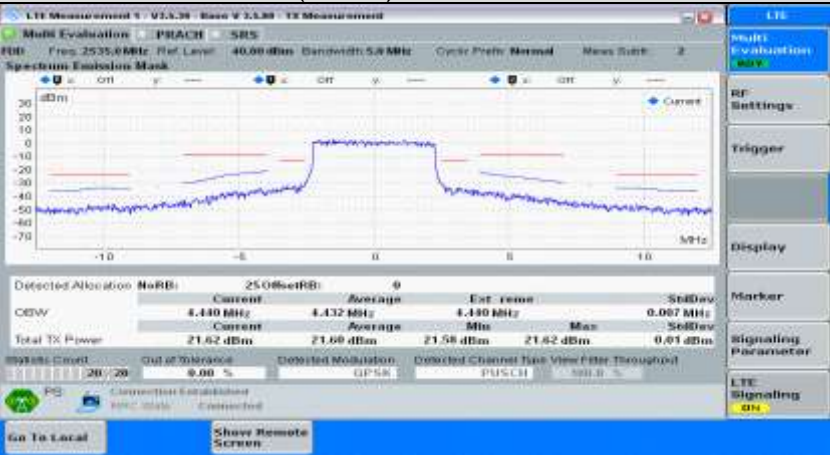


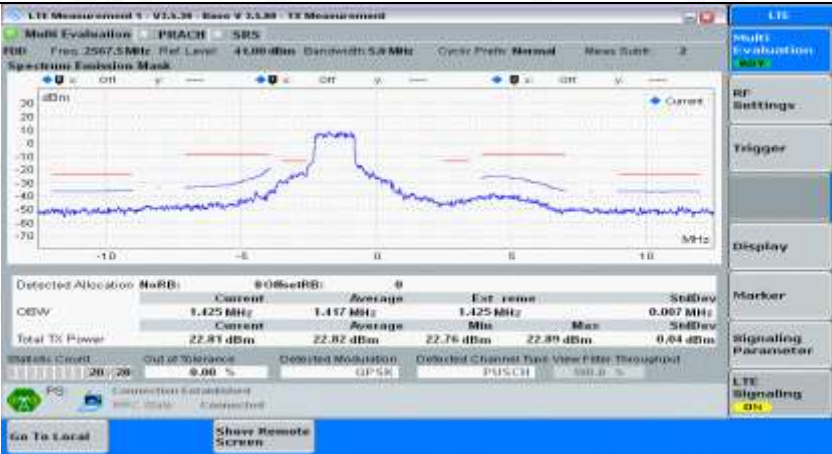
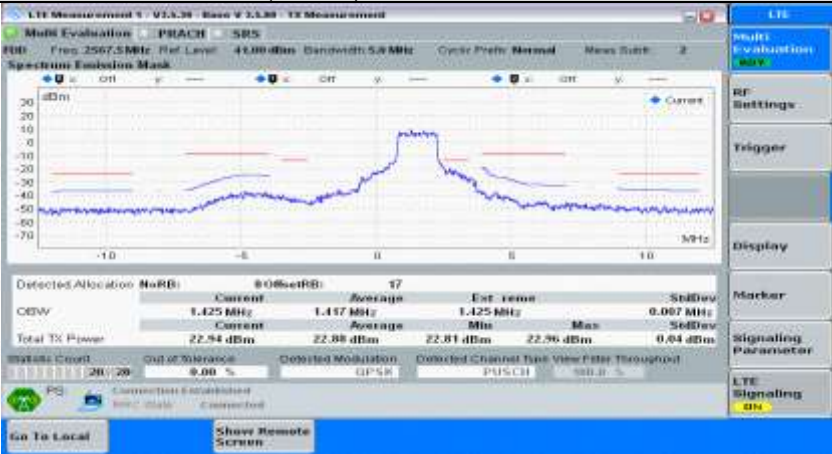
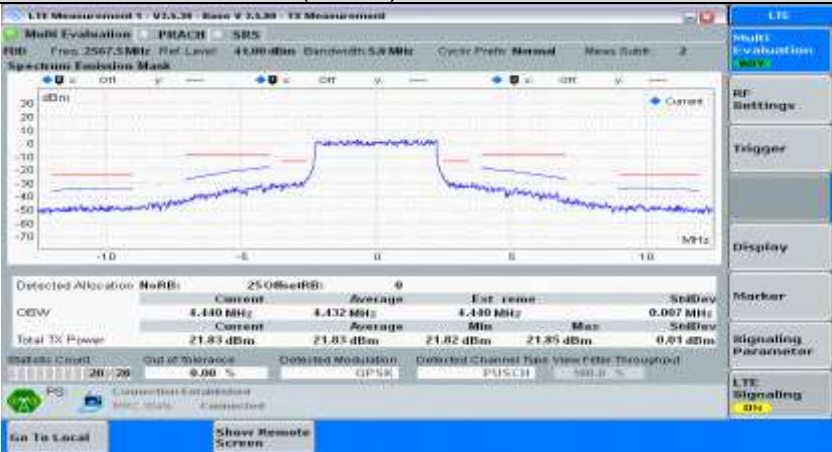
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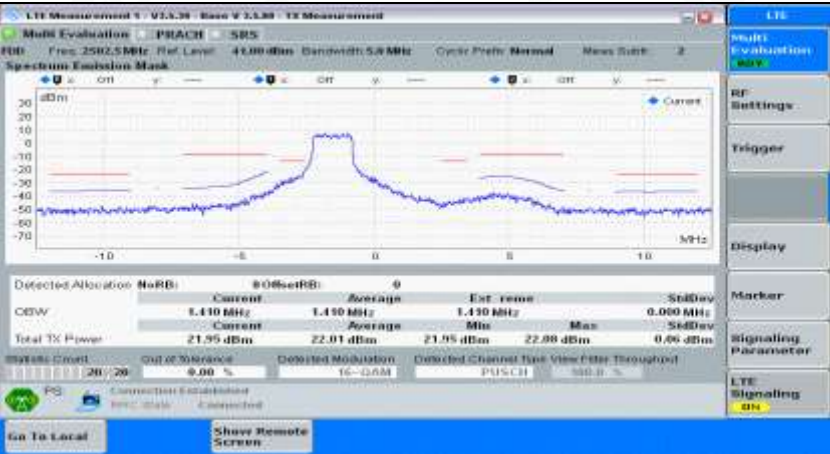
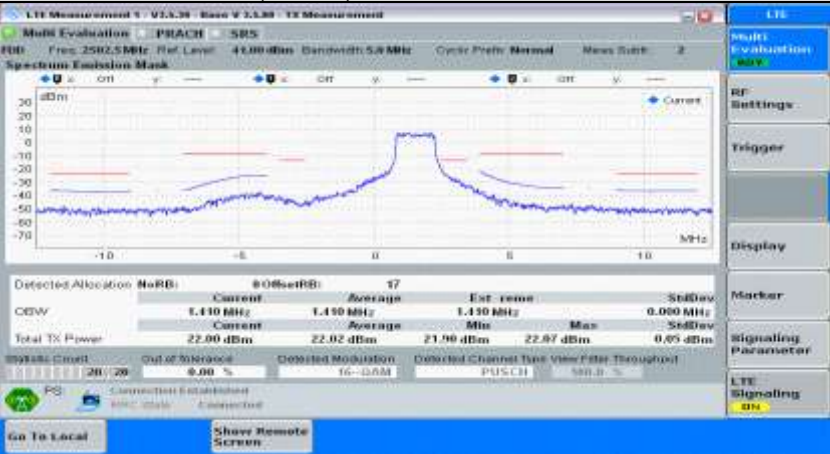
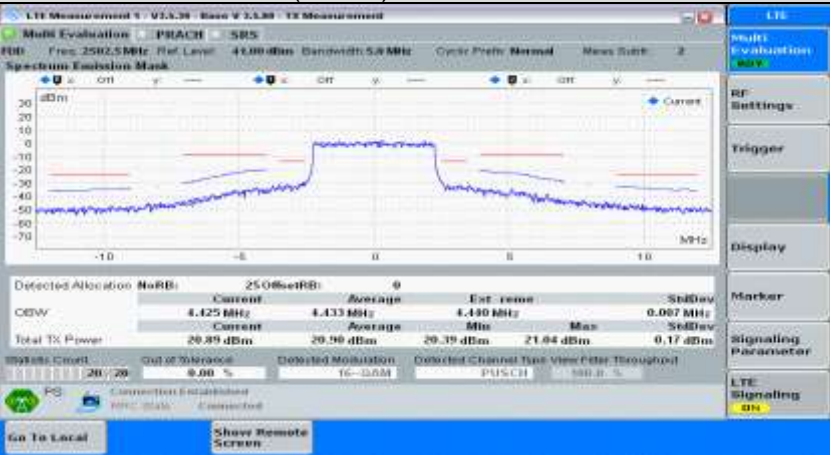
QPSK

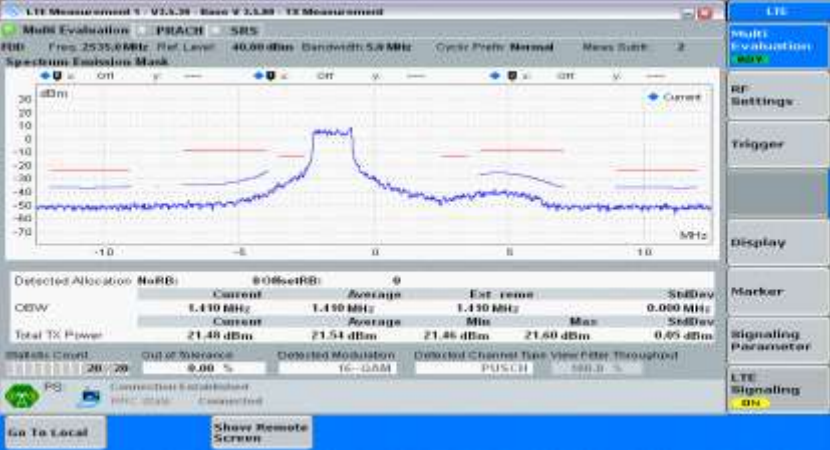
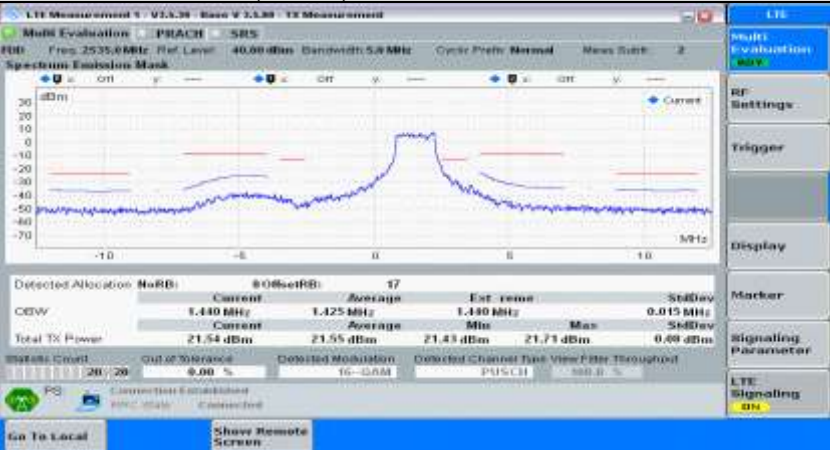
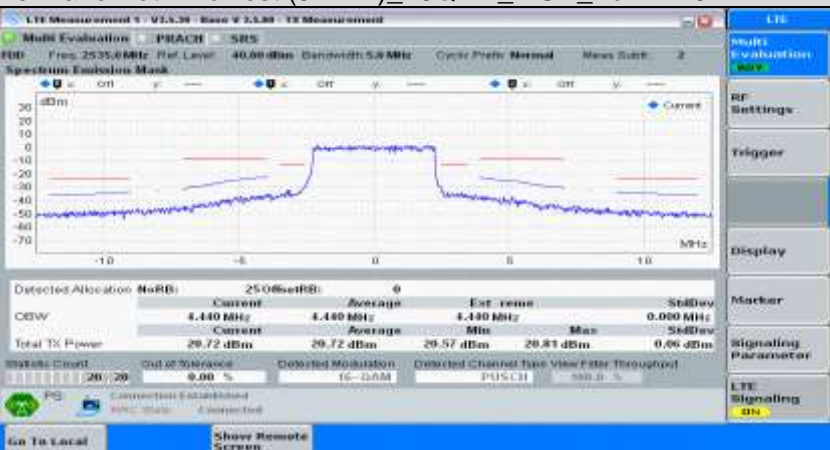


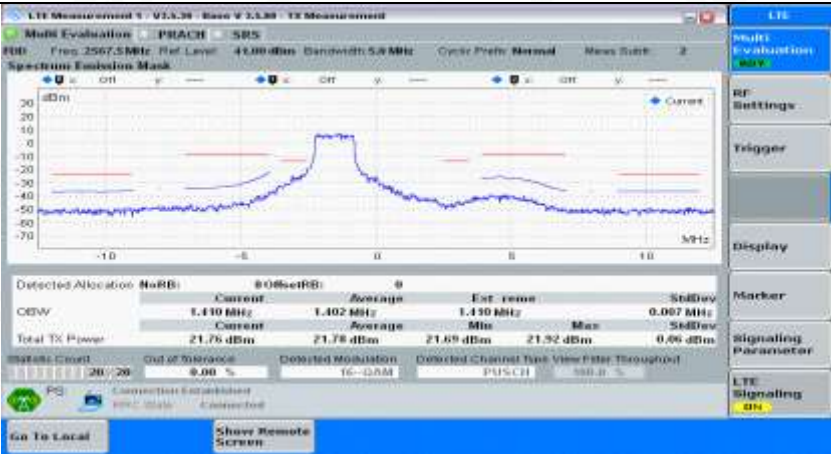
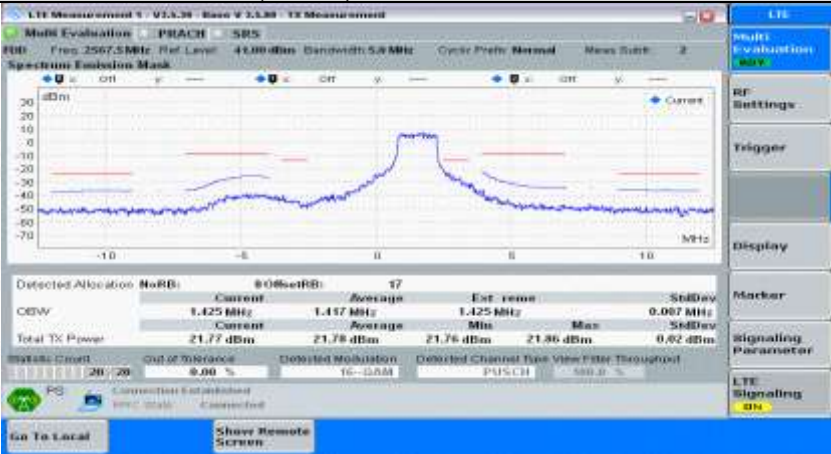
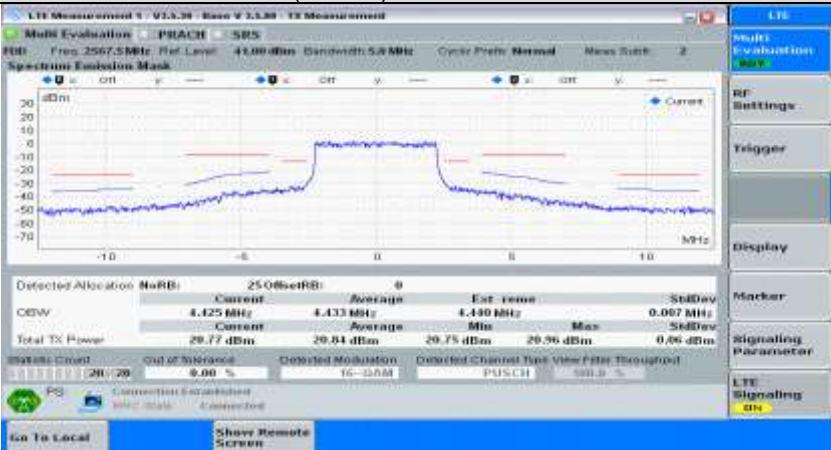
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

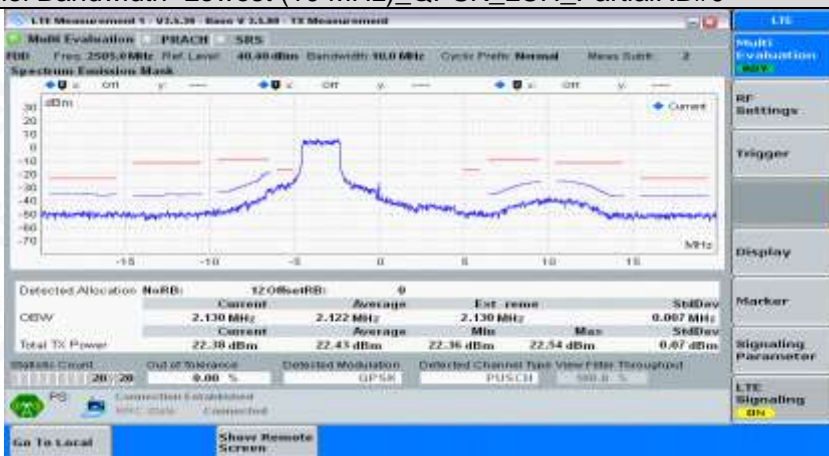
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	



Channel Bandwidth= (10 MHz)

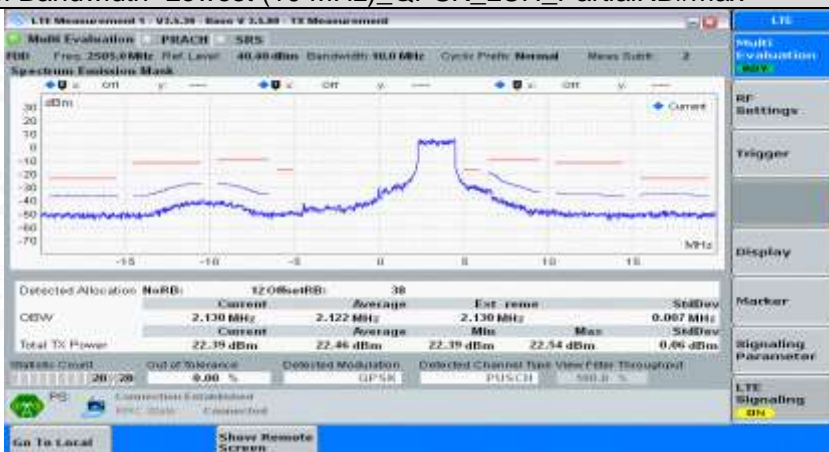
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QPSK



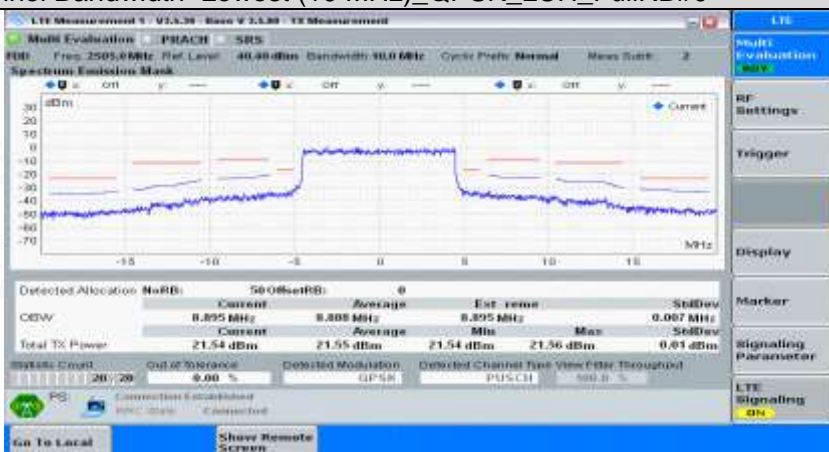
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QPSK

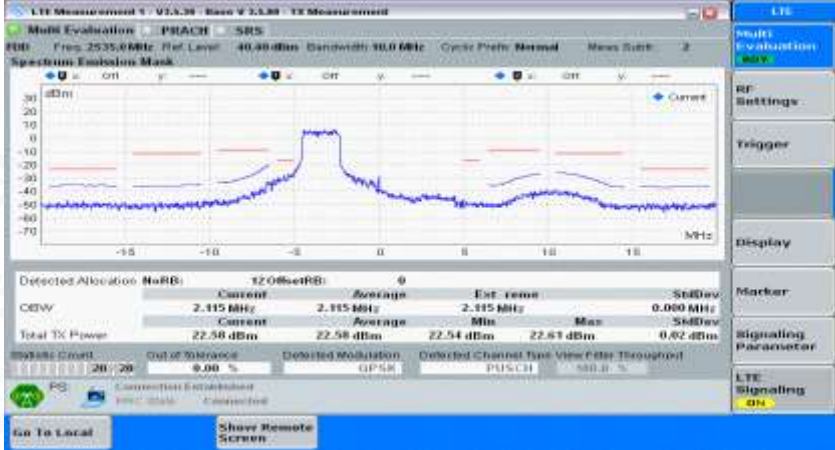
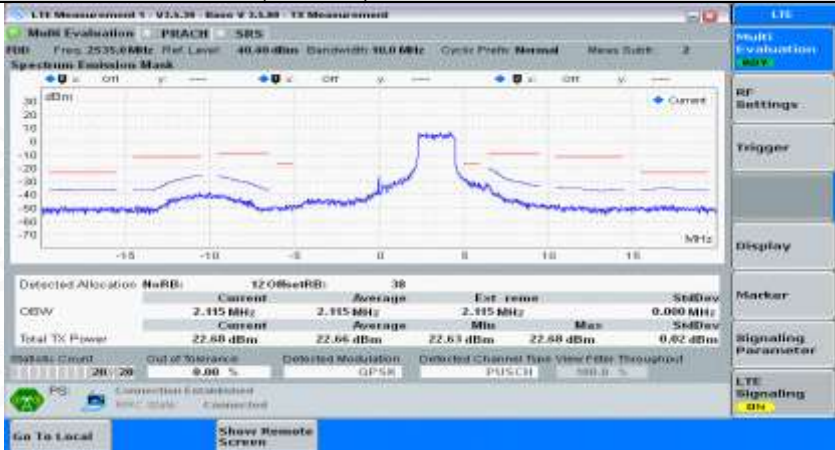
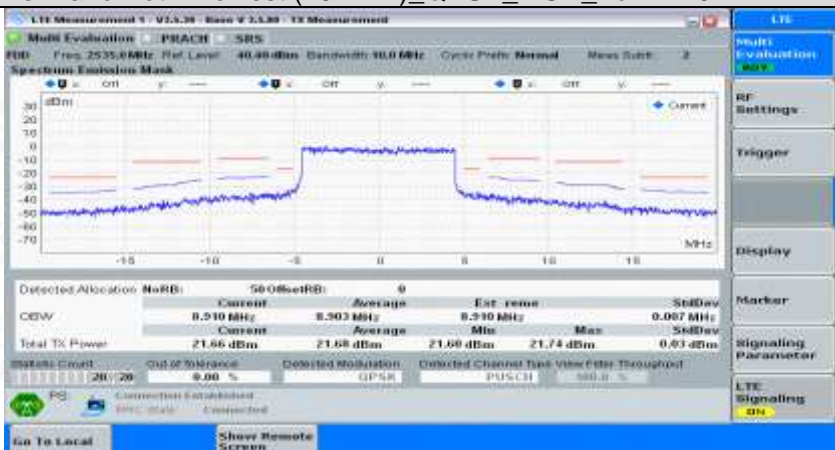


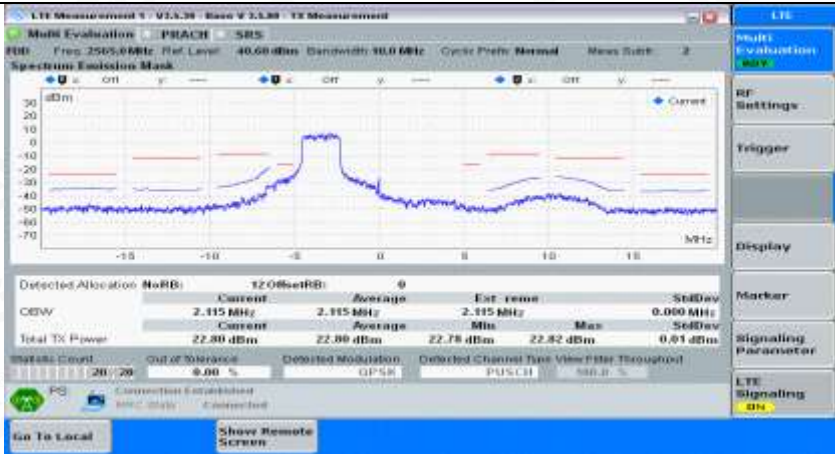
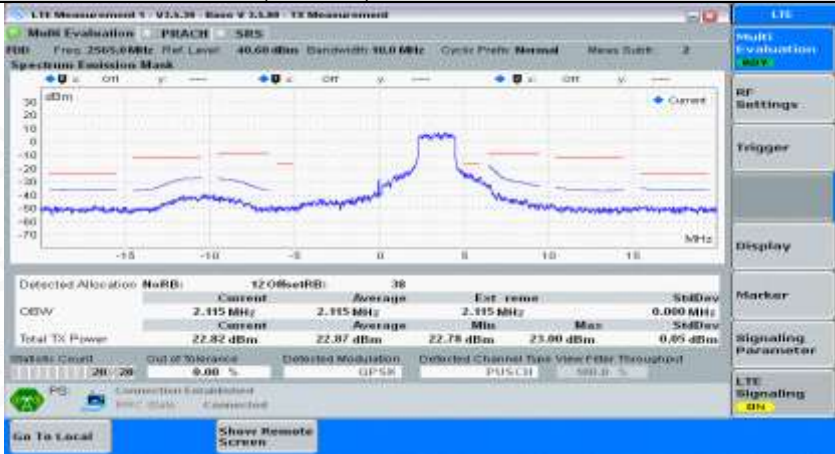
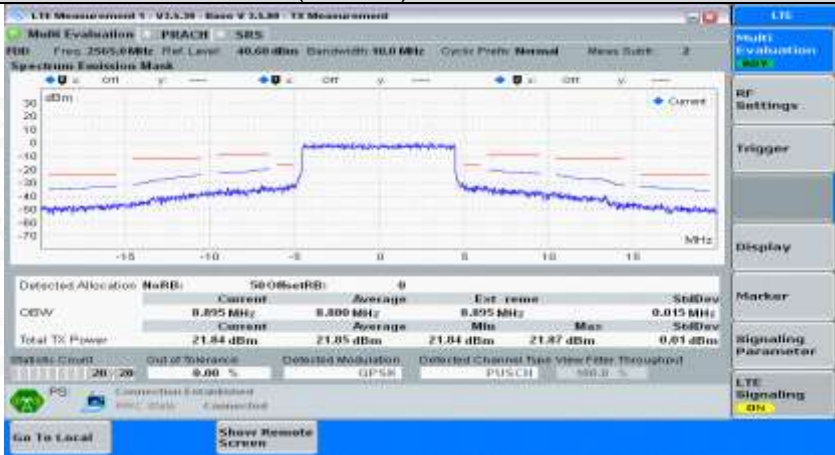
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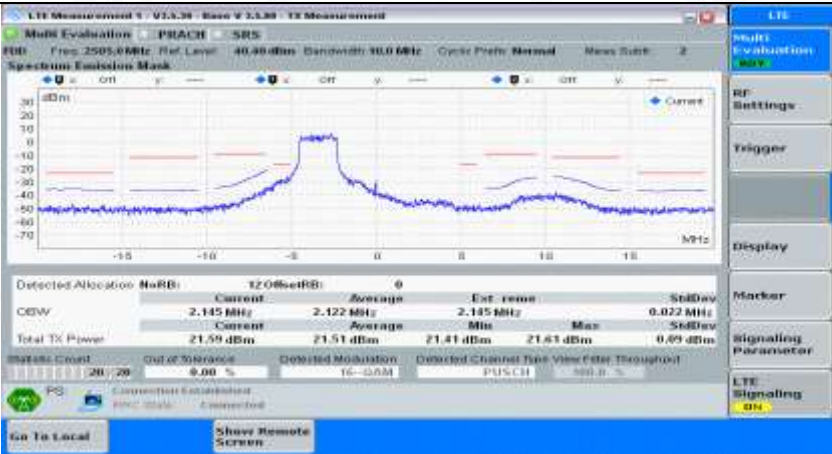
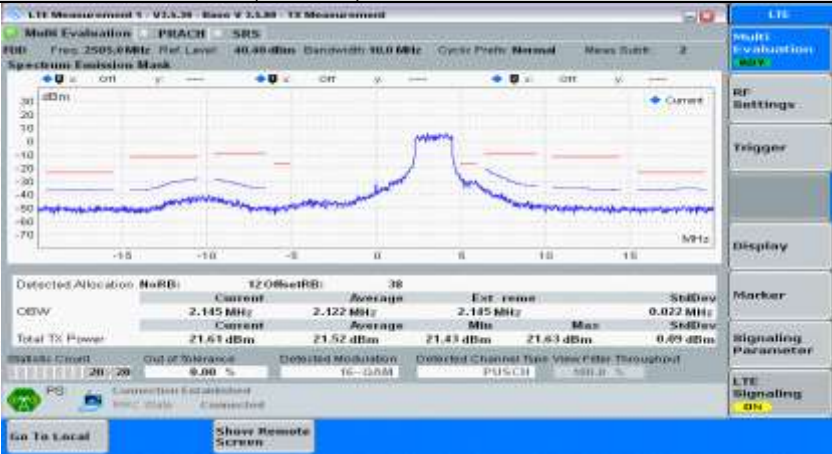
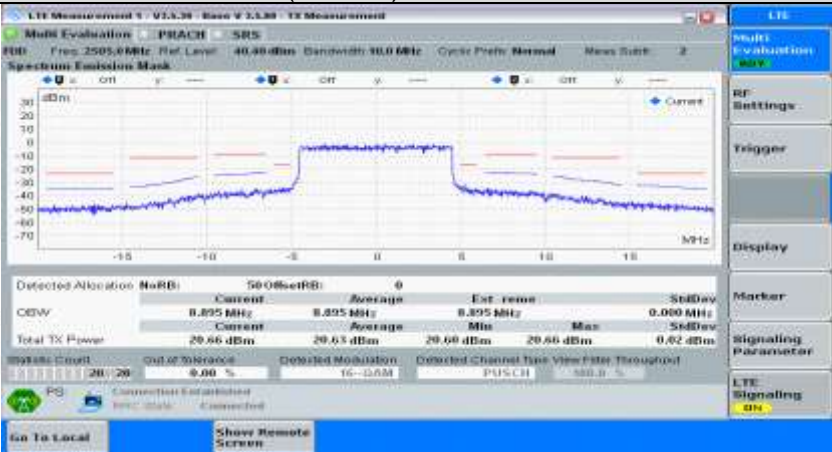
QPSK

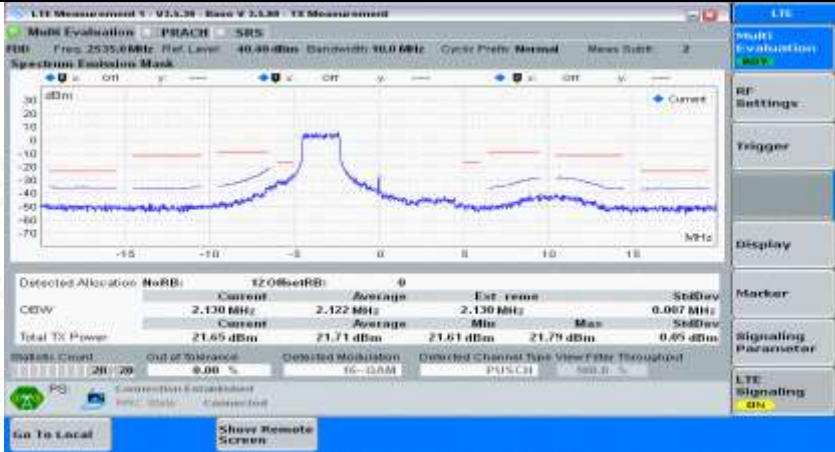
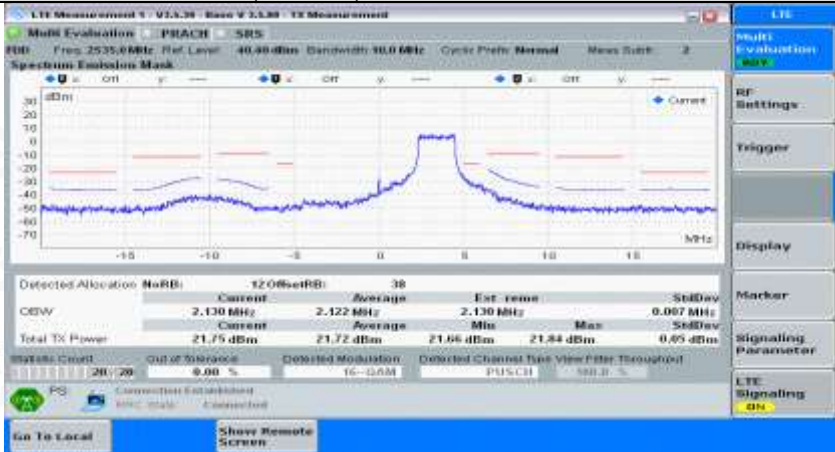
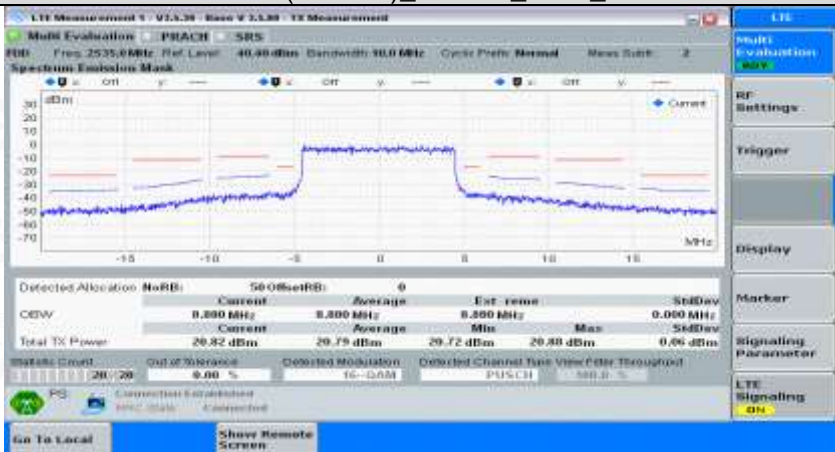


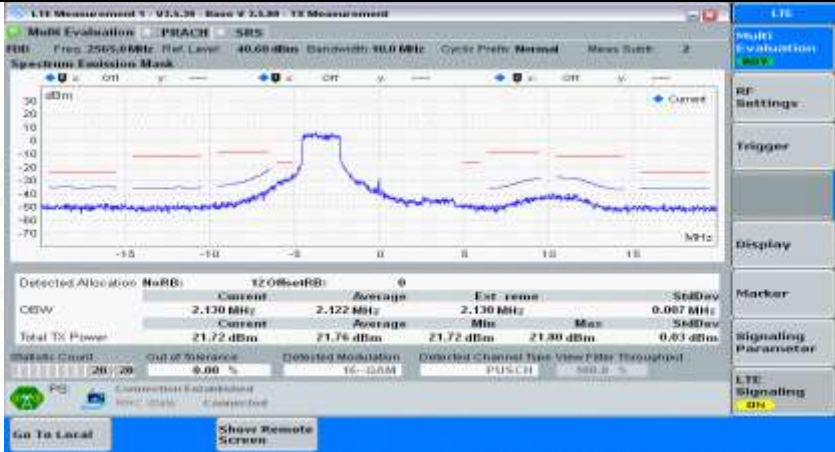
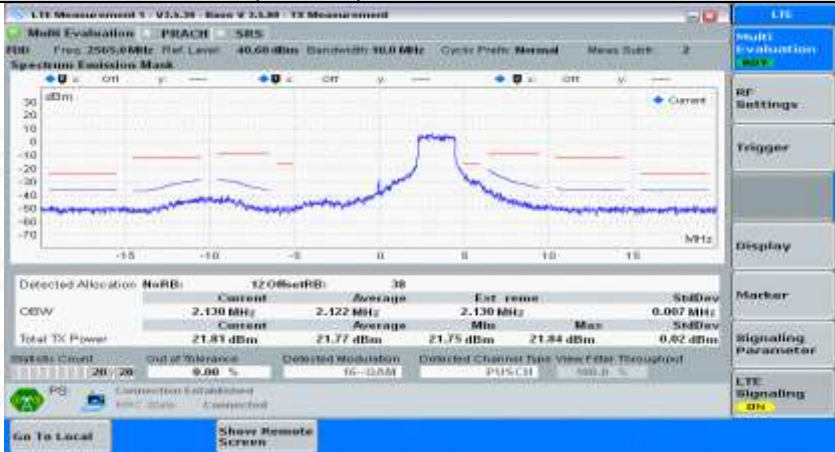
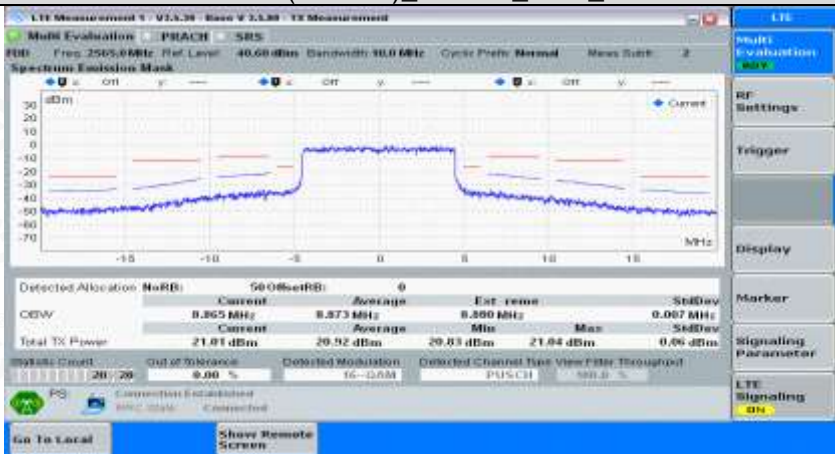
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max		
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0		
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0		

QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

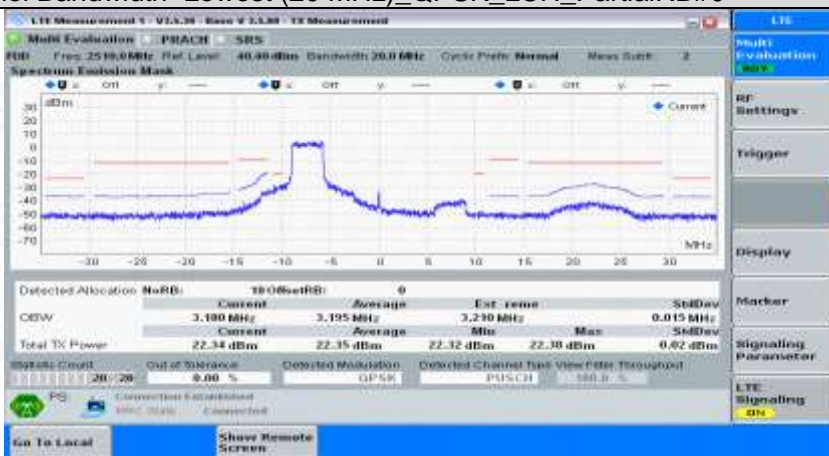
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

Channel Bandwidth=Highest (20 MHz)

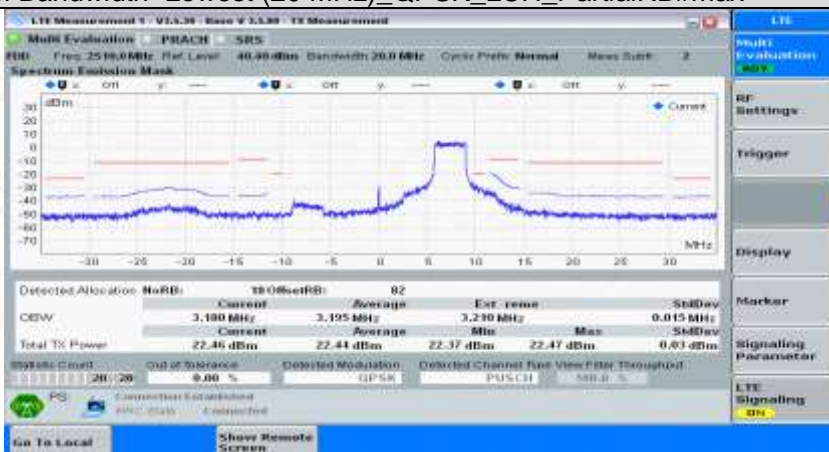
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

QPSK



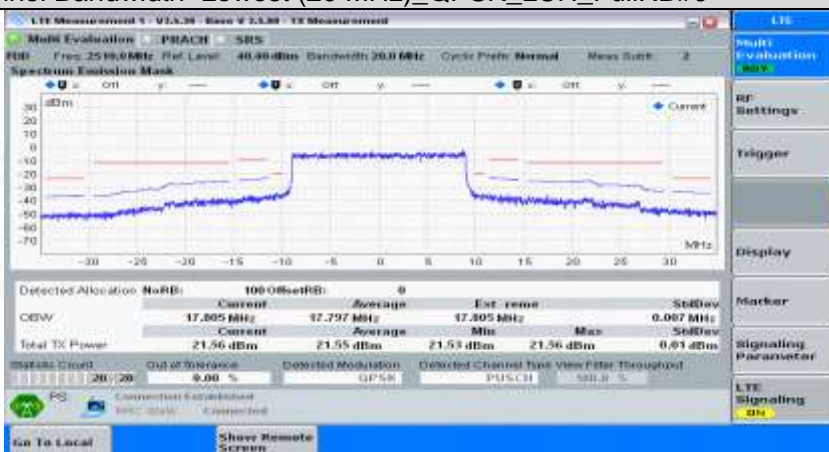
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

QPSK



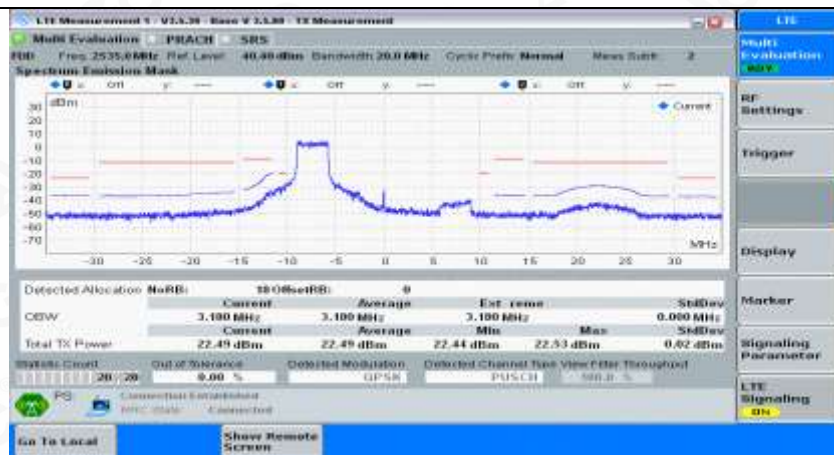
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0

QPSK



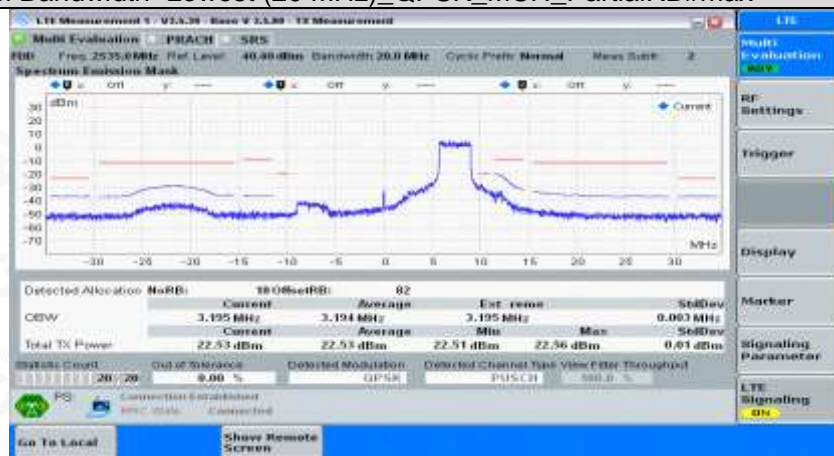
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QPSK



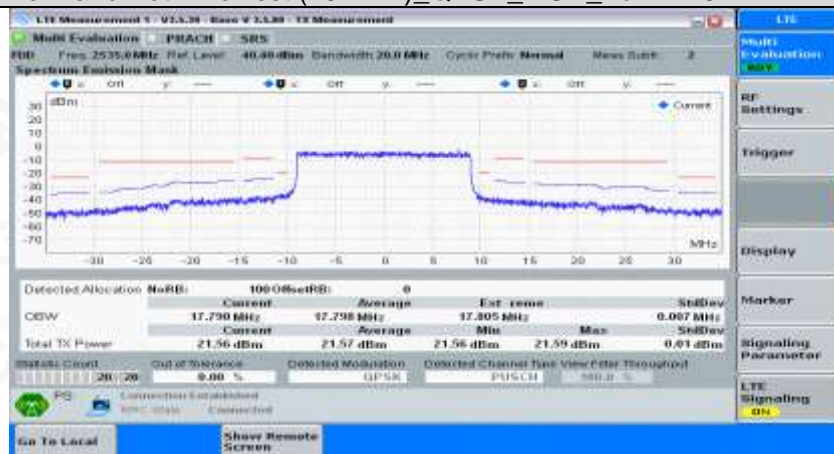
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0



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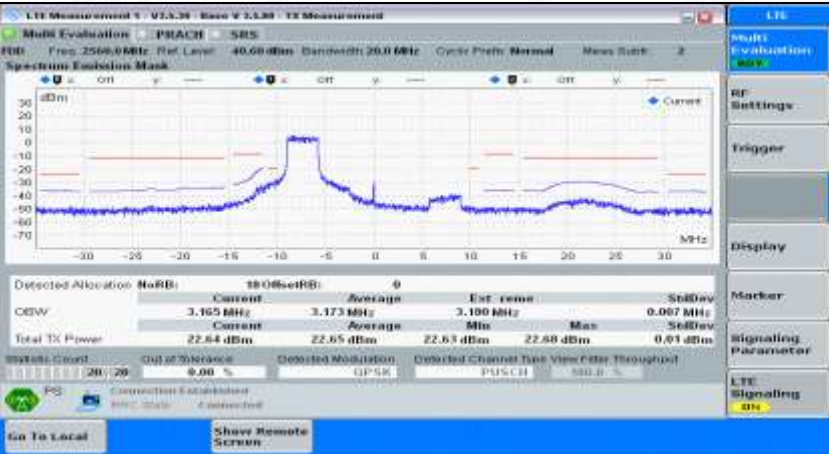
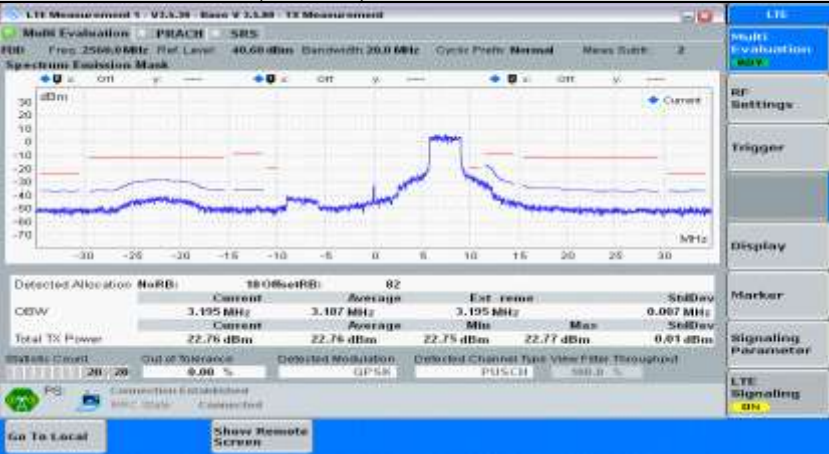
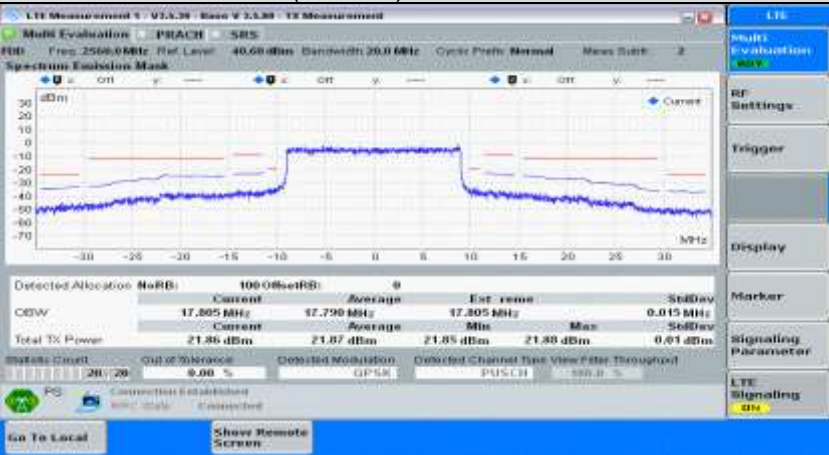
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

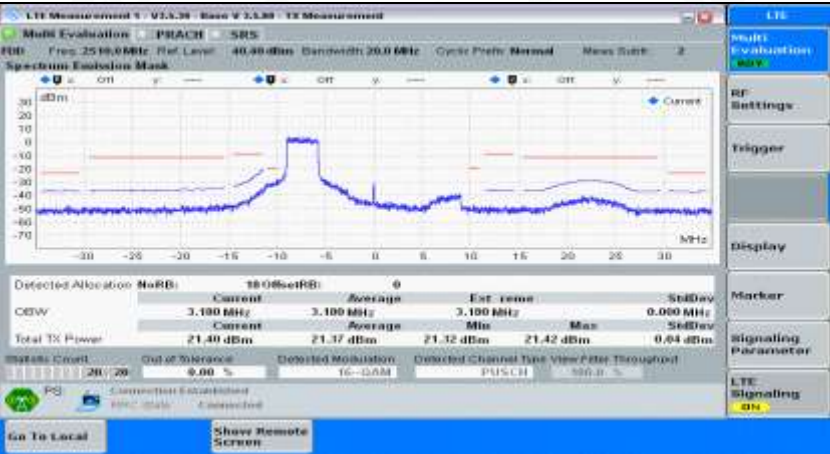
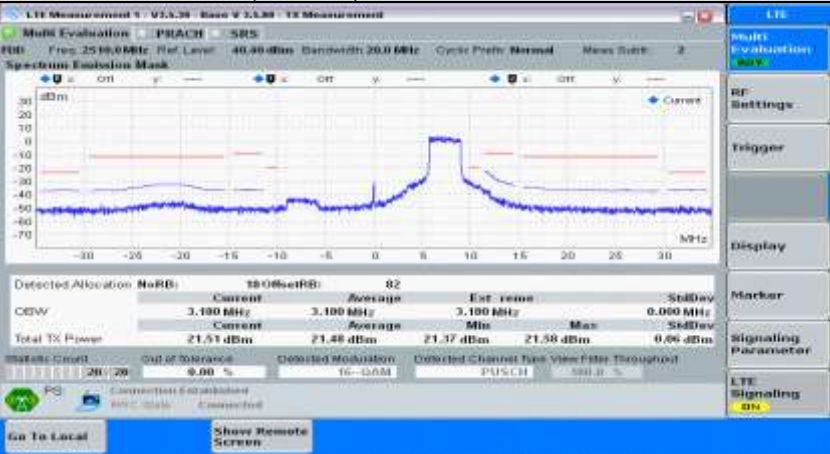
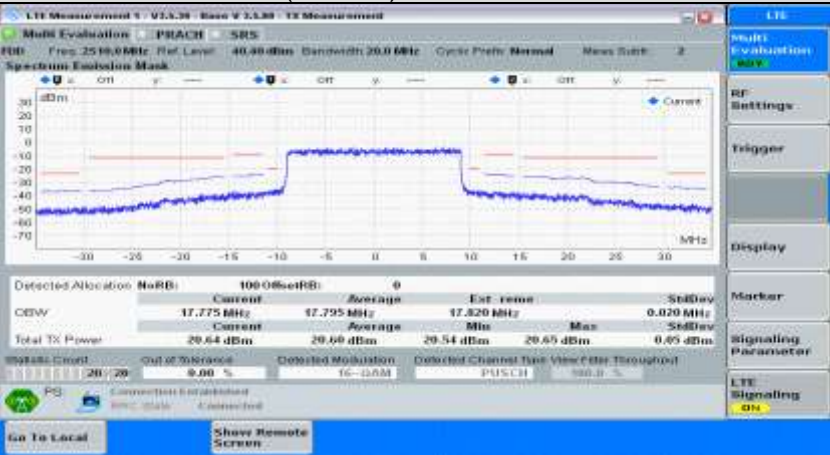
Tel: +86-755 2523 4088

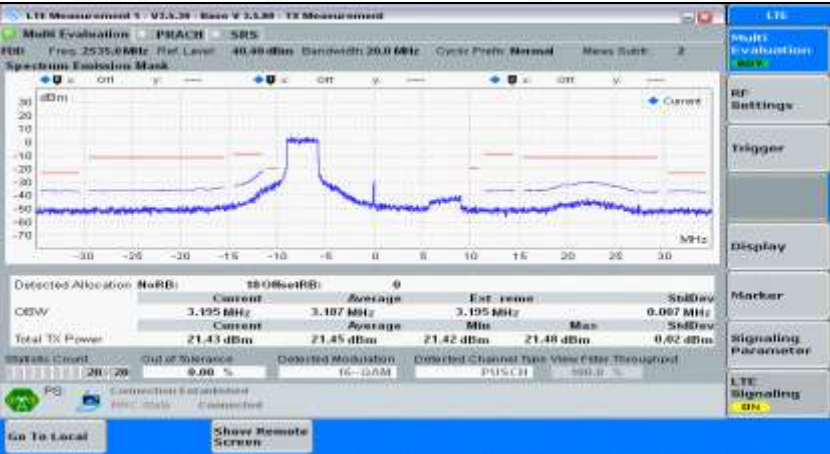
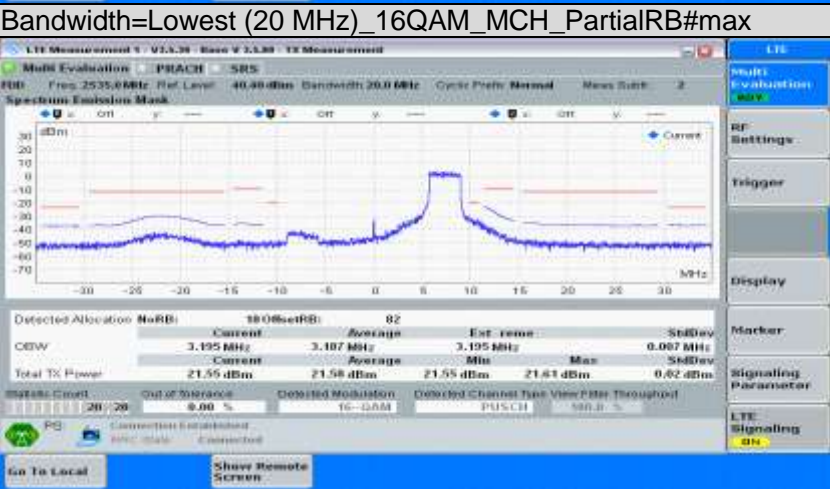
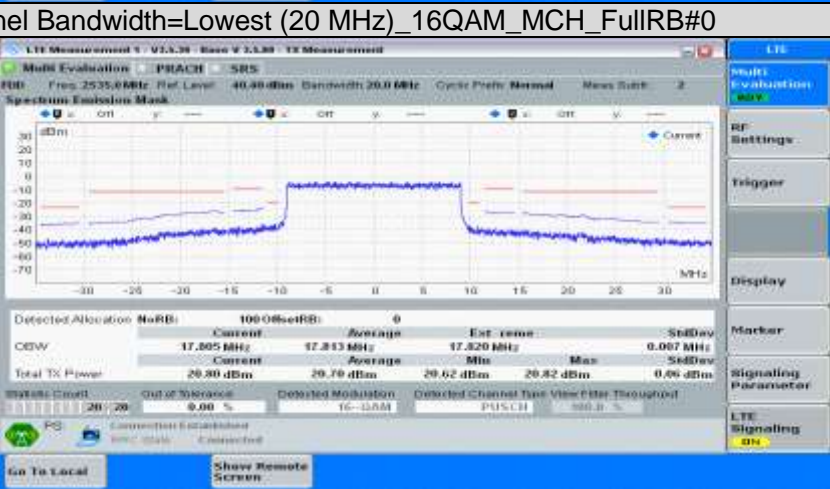
E-mail: agc@agc-cert.com

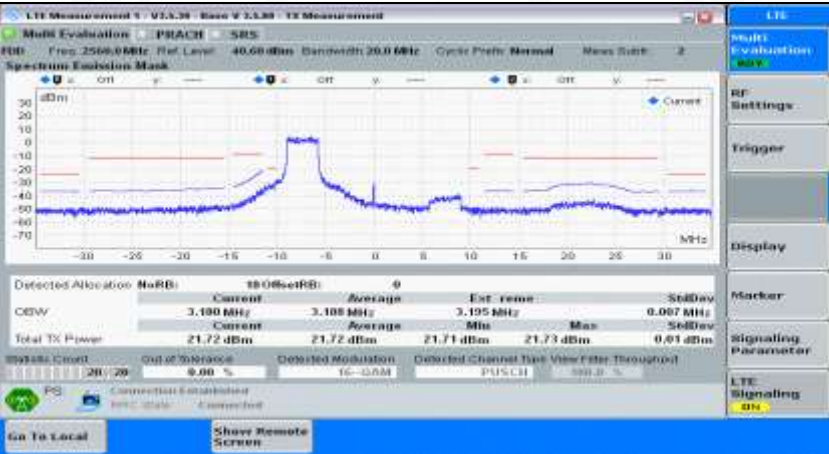
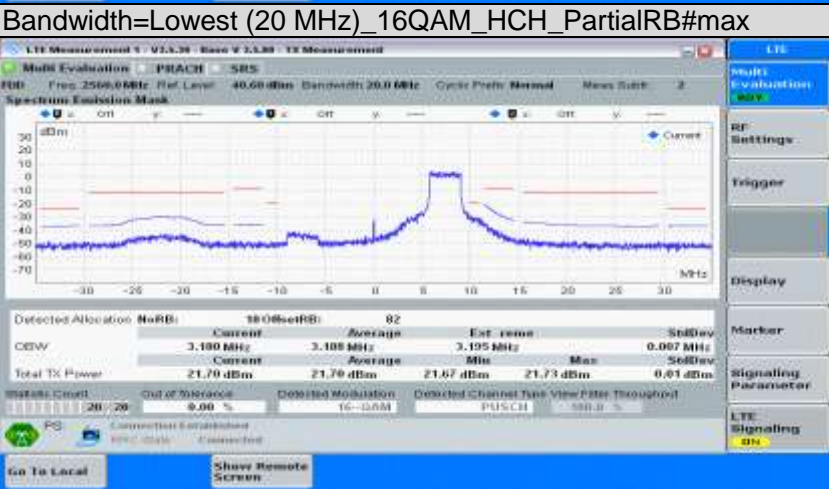
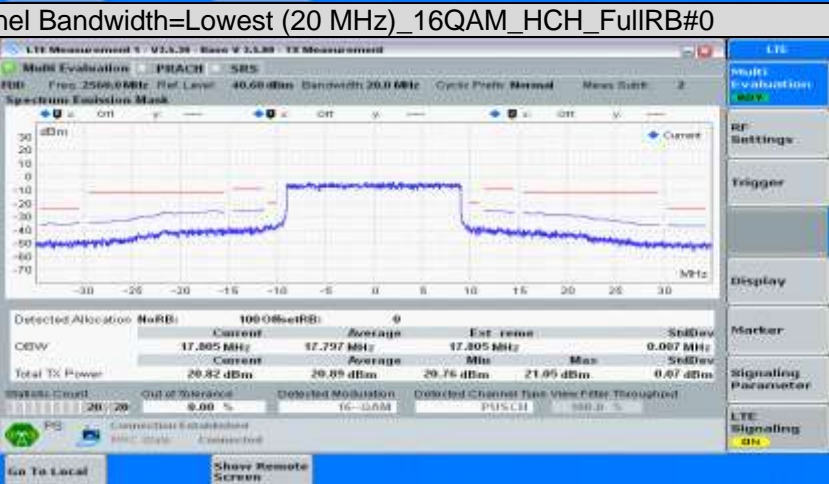
Service Hotline: 400 089 2118

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	



16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	



4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full			0	PUMAX	Pass	
	16QAM		Low range	Partial	0	PUMAX	Pass
max		PUMAX			Pass		



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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118


				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
					Full	0	PUMAX
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
					Full	0	PUMAX

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>

QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max		
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0		
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0		

16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>	<p>LTE</p> <p>Multi-Evaluation</p> <p>RF-Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling-Parameter</p> <p>LTE-Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>	<p>LTE</p> <p>Multi-Evaluation</p> <p>RF-Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling-Parameter</p> <p>LTE-Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>	<p>LTE</p> <p>Multi-Evaluation</p> <p>RF-Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling-Parameter</p> <p>LTE-Signaling</p>

16QAM		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max		
16QAM		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0		
16QAM		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0		

16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

Channel Bandwidth= (10 MHz)

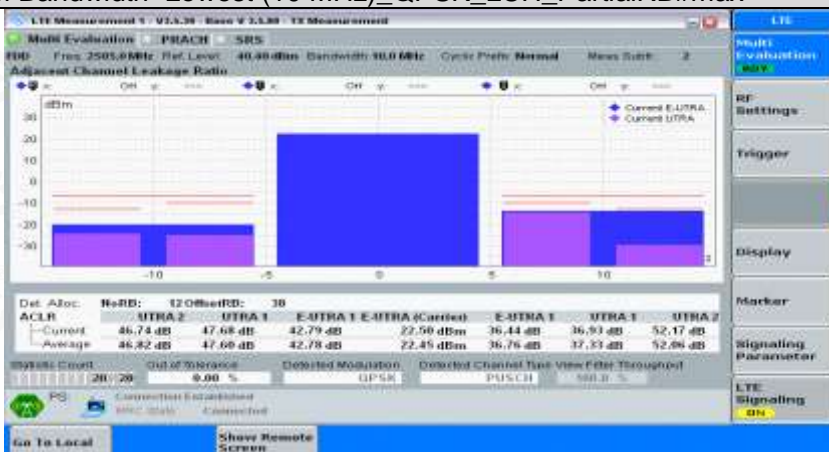
Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK







Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0




Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max

Channel Bandwidth=Lowest (10 MHz) QPSK MCH FullRB#0

Channel Bandwidth=Lowest (10 MHz) QPSK HCH_PartialRB#0

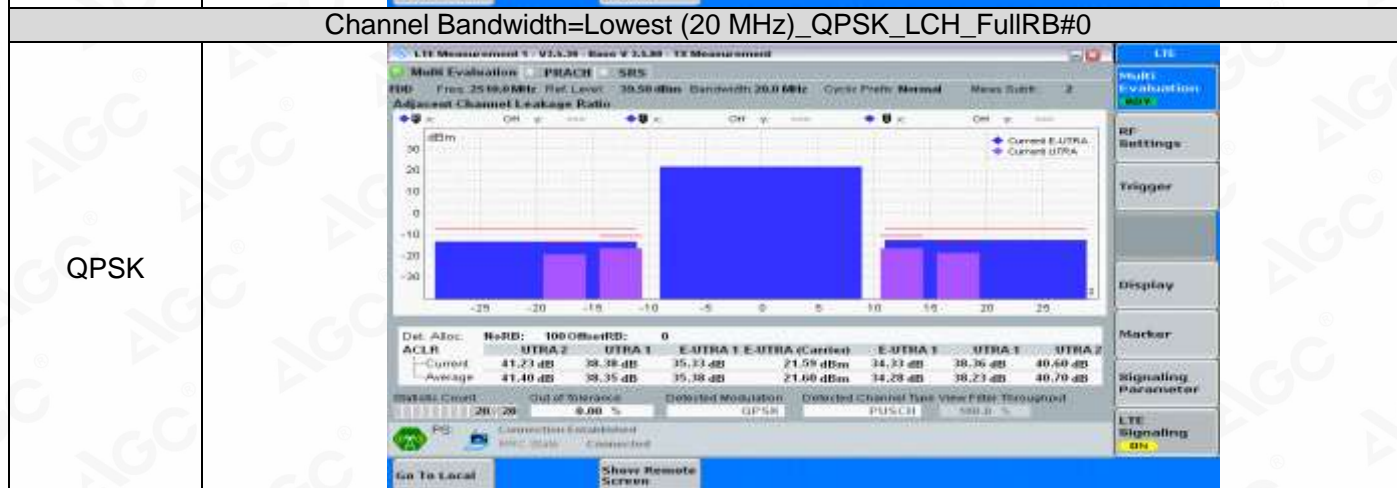
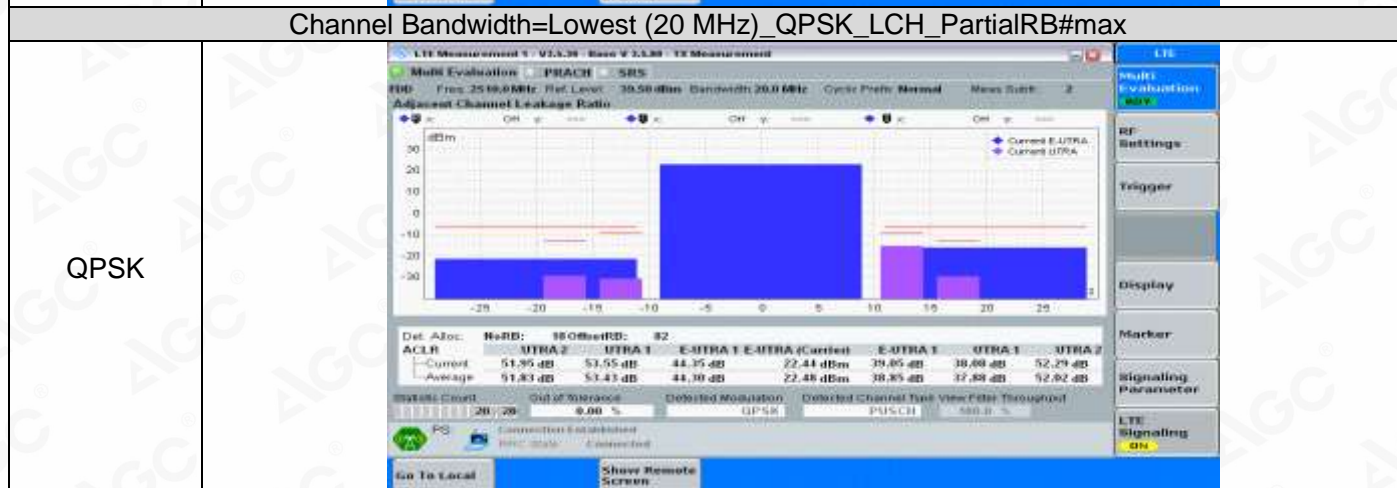
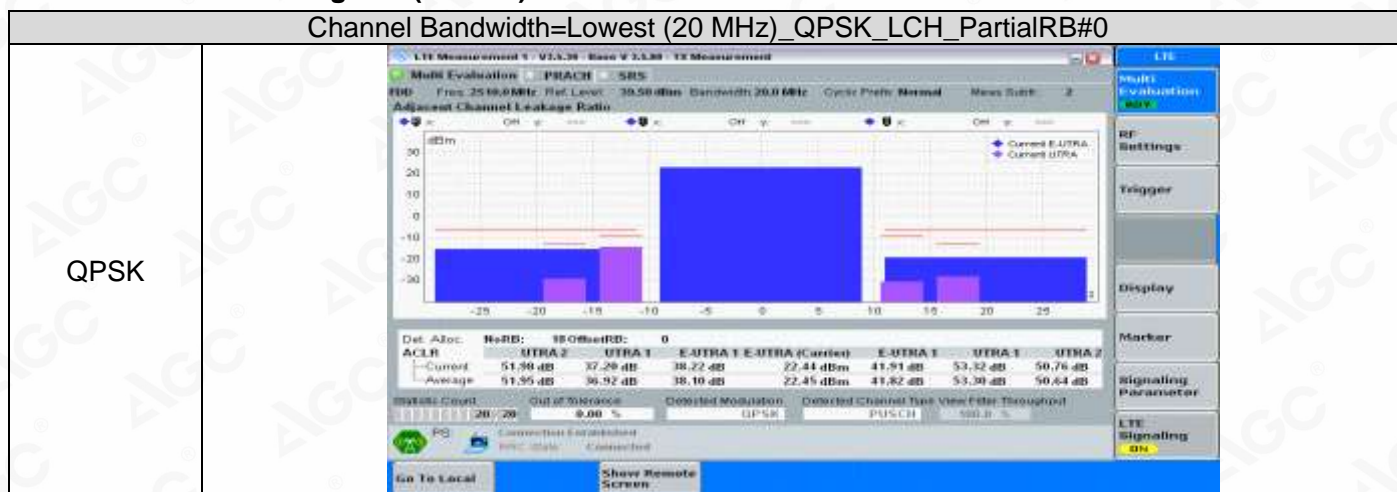
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max		
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0		
QPSK		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0		

16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullIRB#0		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0		



16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0		

16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

Channel Bandwidth=Highest (20 MHz)




Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0


QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0		

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	



16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



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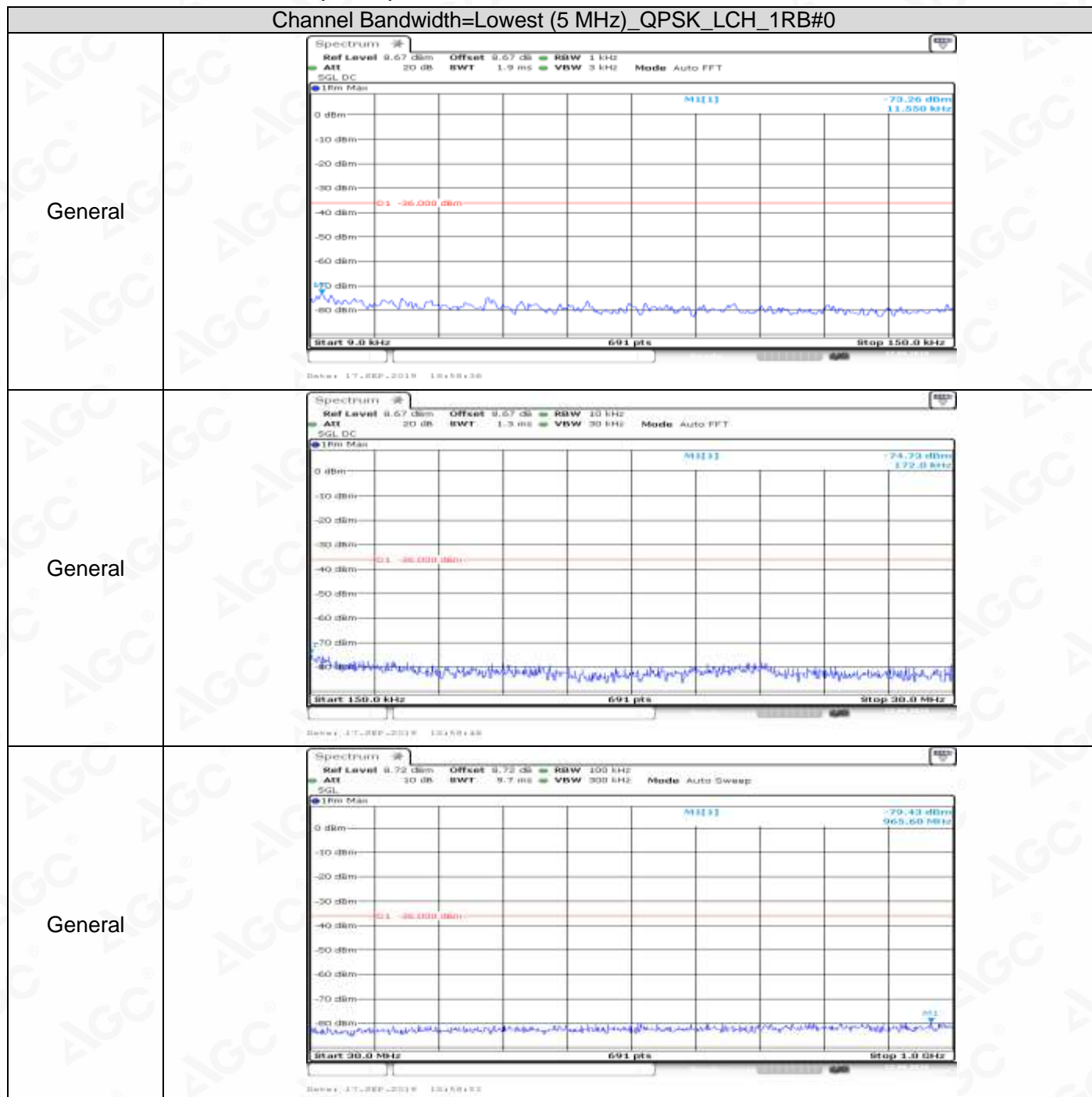
E-mail: agc@agc-cert.com

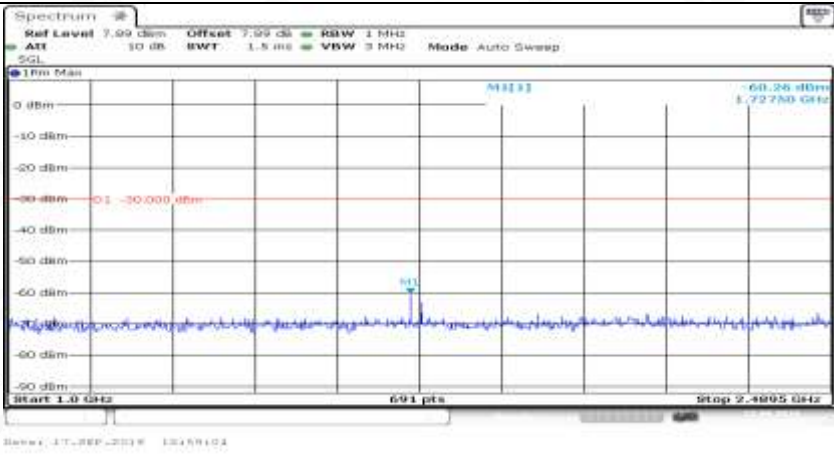
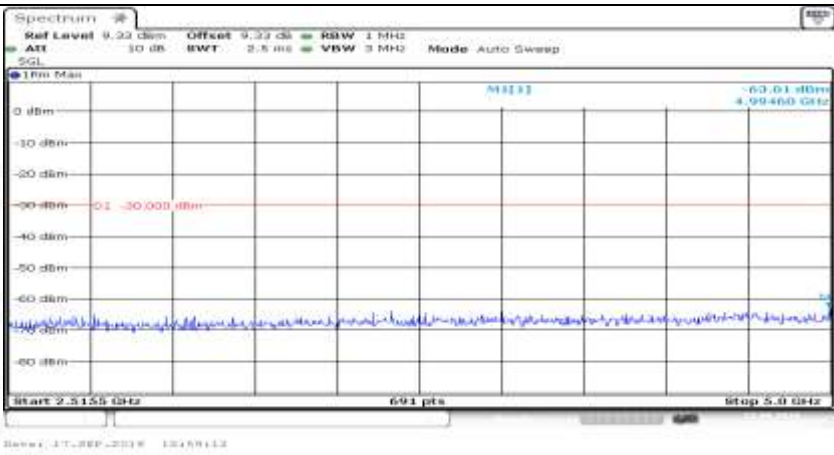
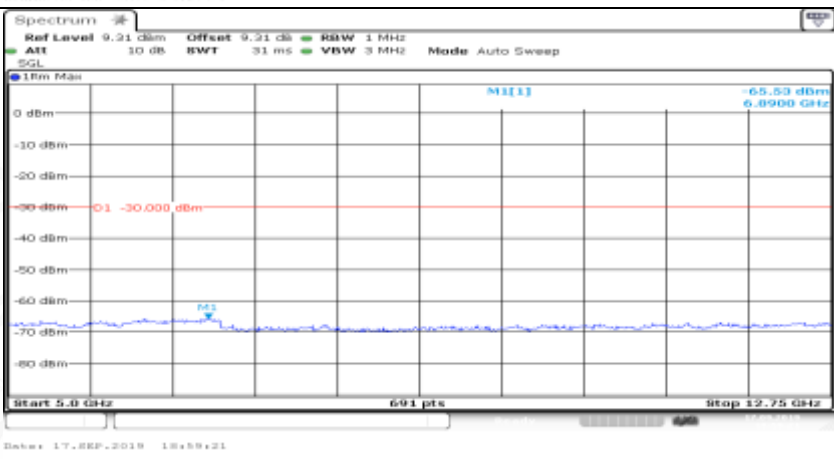
Service Hotline: 400 089 2118

Test Graphs

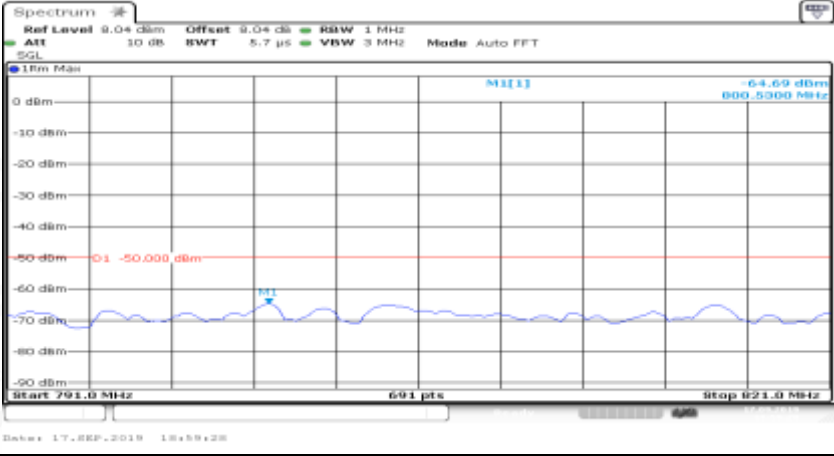
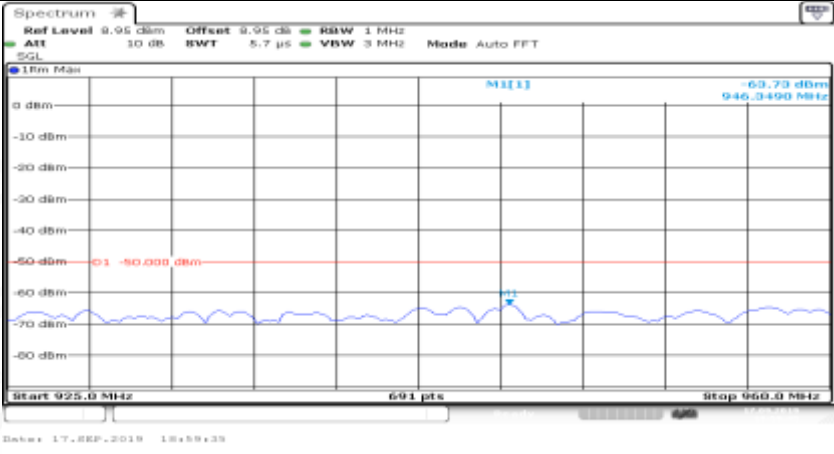

NTNV

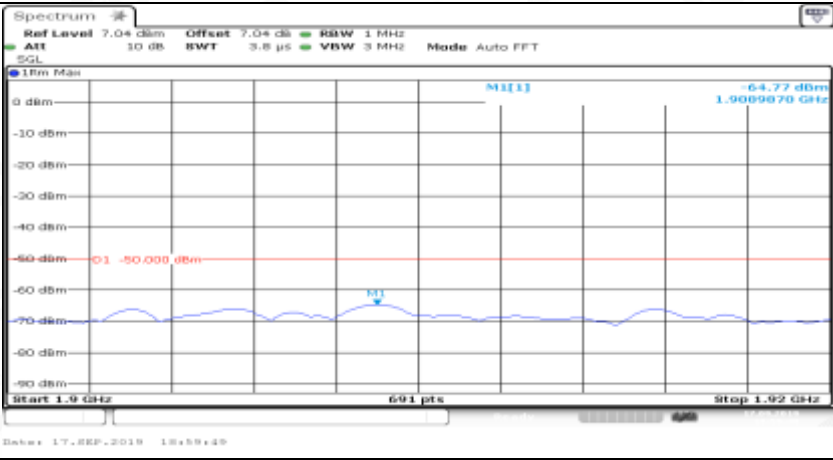
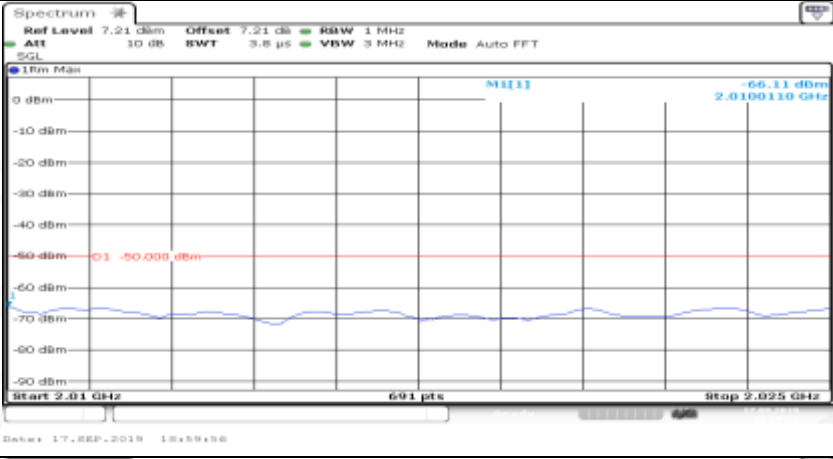
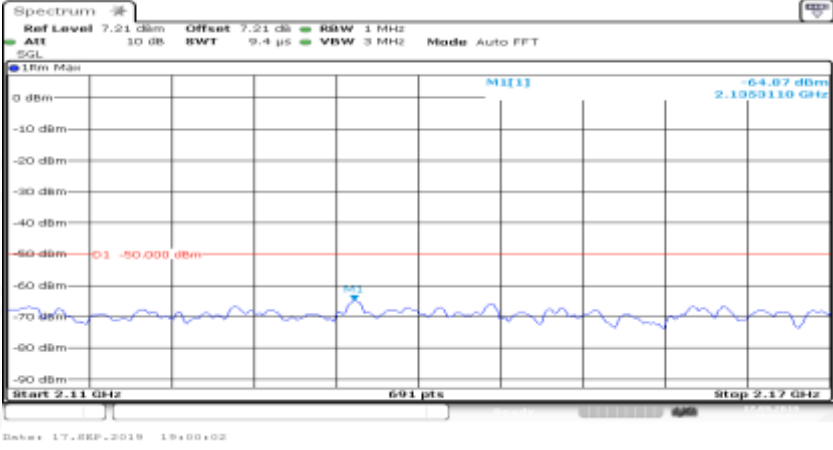
Channel Bandwidth=Lowest (5 MHz)



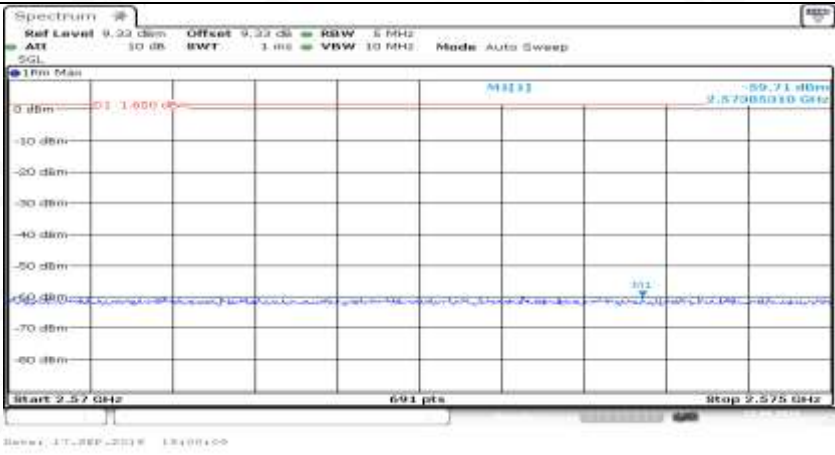
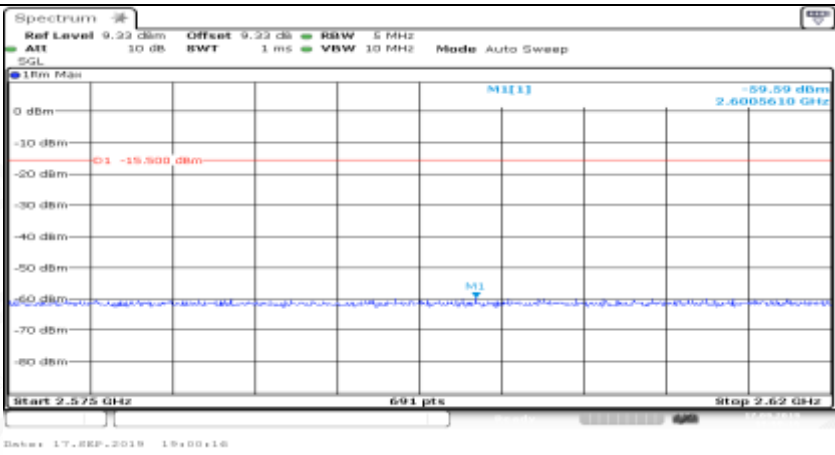
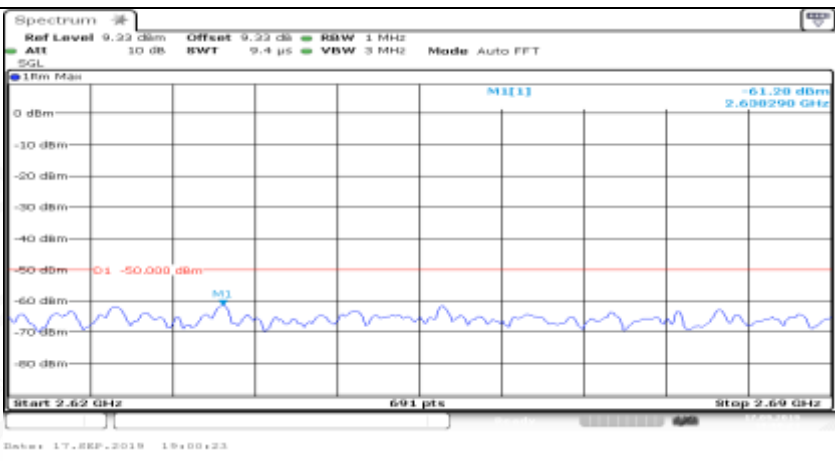
General	
General	
General	


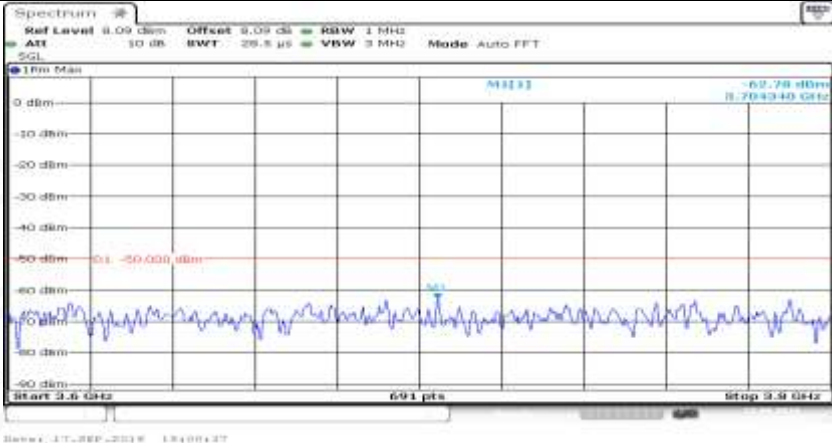


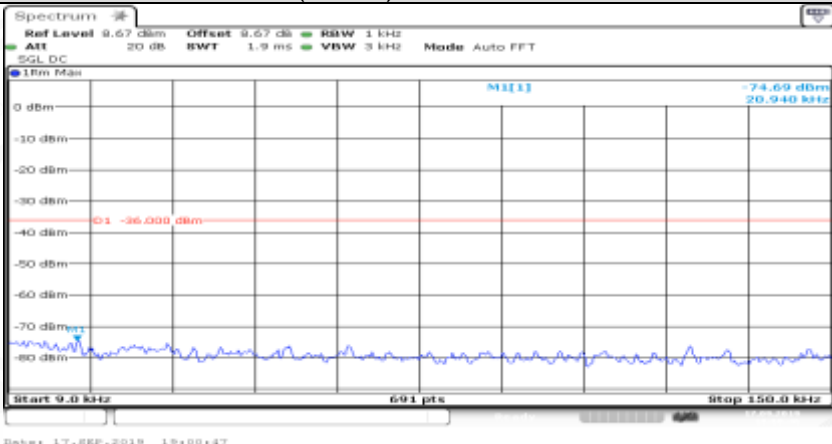
Co-existence	
Co-existence	
Co-existence	

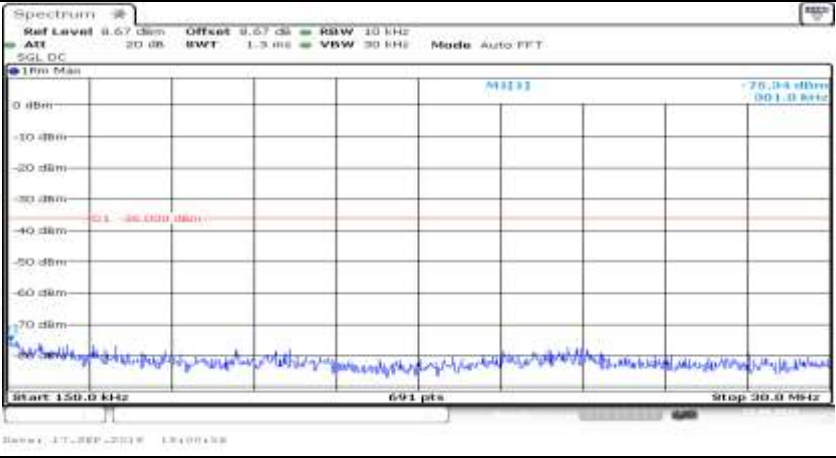
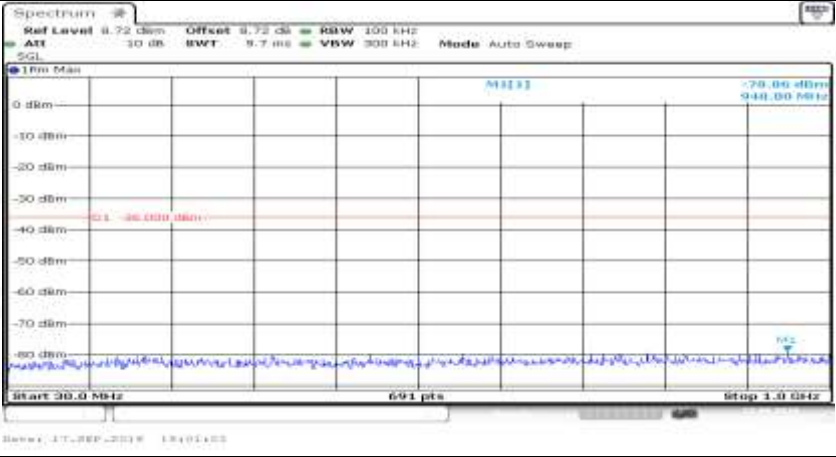
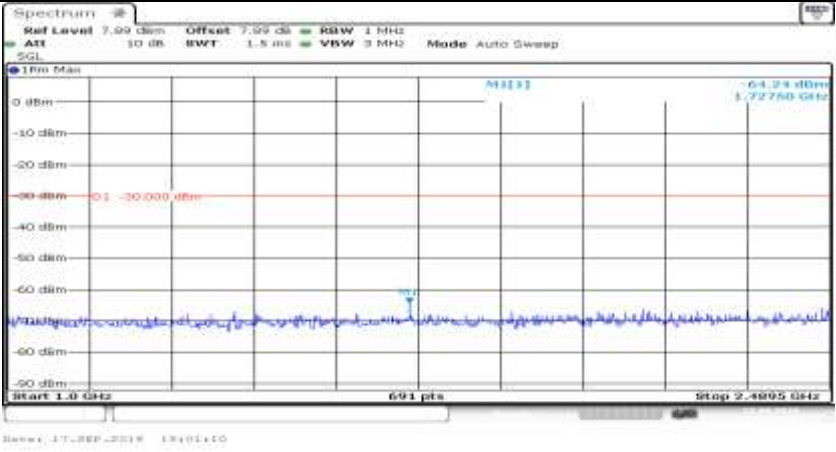
Co-existence	
Co-existence	
Co-existence	



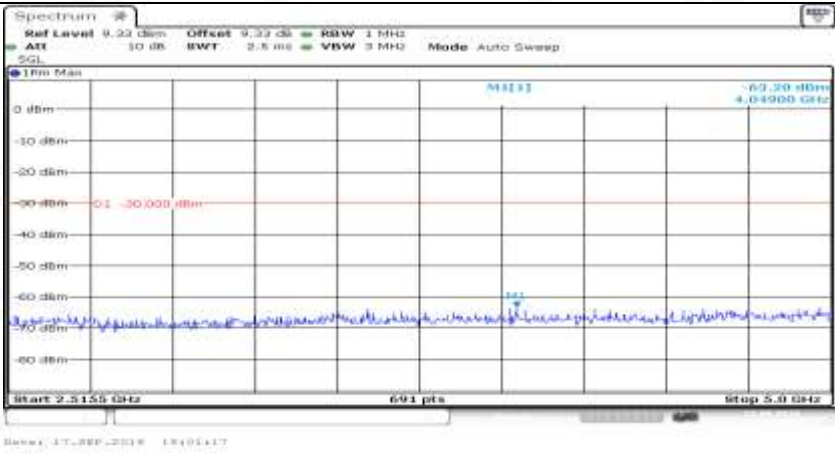
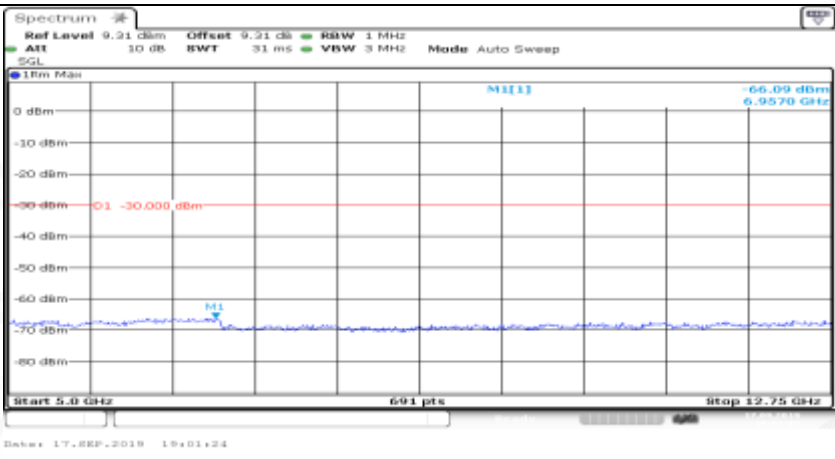
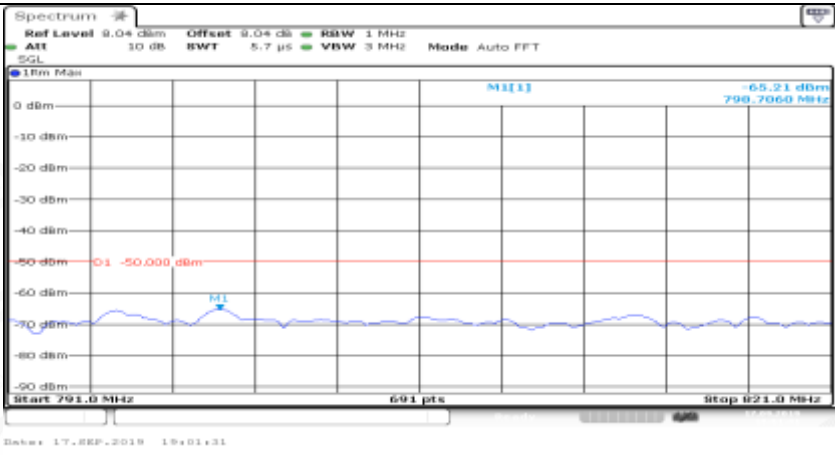
Co-existence	
Co-existence	
Co-existence	

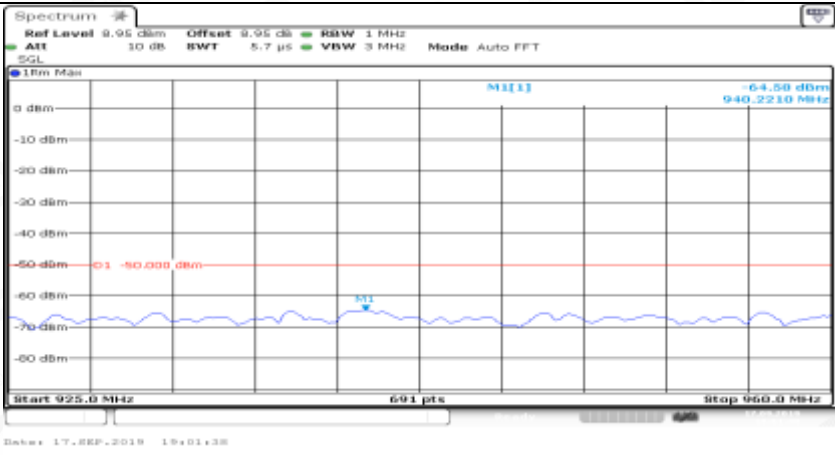

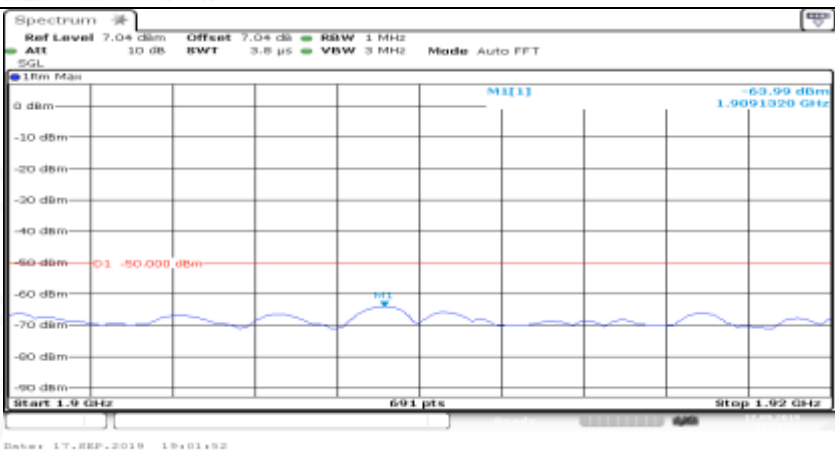
Co-existence	
Co-existence	
Additional	NA

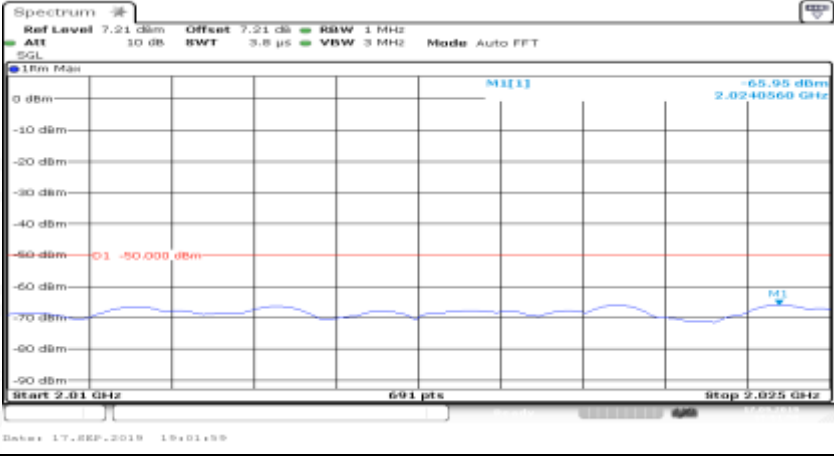

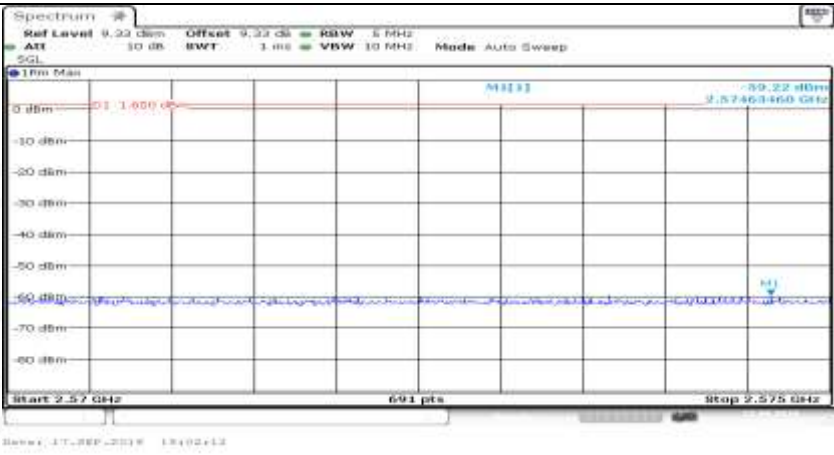
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

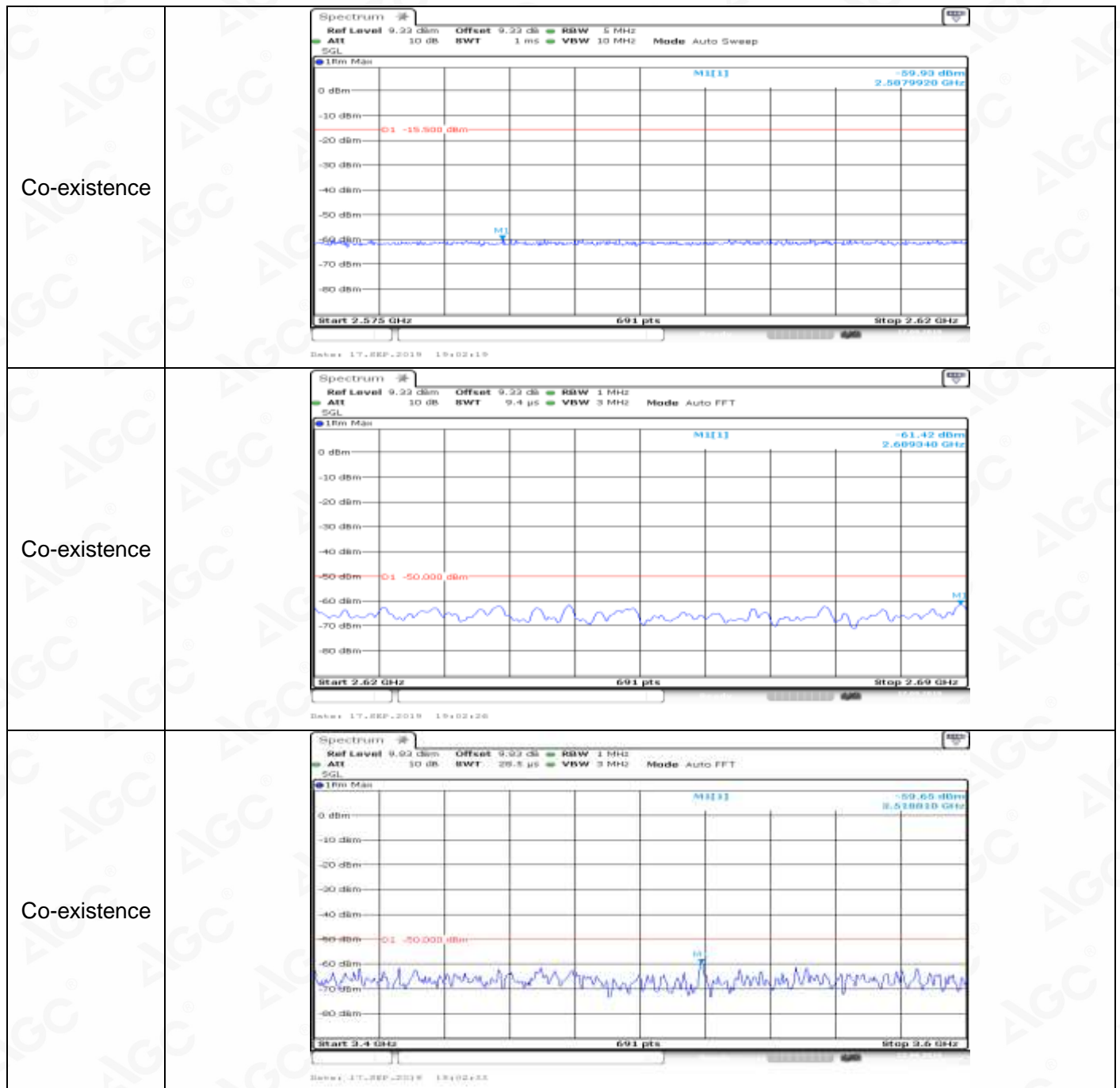
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General	

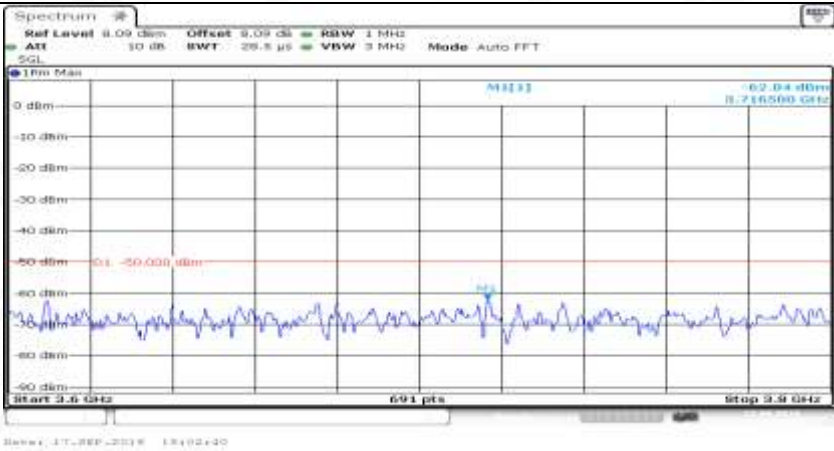


General	 <p>Spectrum plot showing a noise floor around -65 dBm. A red line indicates a limit at -30.000 dBm. The x-axis ranges from 2.5155 GHz to 5.0 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
General	 <p>Spectrum plot showing a noise floor around -65 dBm. A red line indicates a limit at -30.000 dBm. The x-axis ranges from 5.0 GHz to 12.75 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
Co-existence	 <p>Spectrum plot showing a noise floor around -65 dBm. A red line indicates a limit at -50.000 dBm. The x-axis ranges from 791.0 MHz to 823.0 MHz. The y-axis ranges from 0 dBm to -80 dBm.</p>

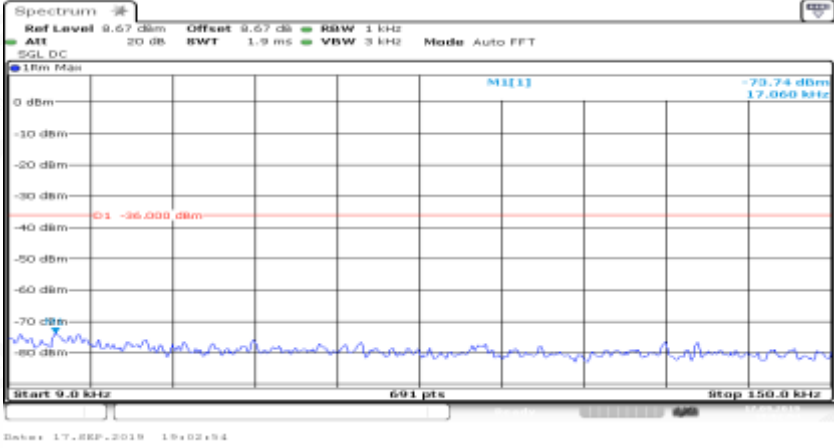
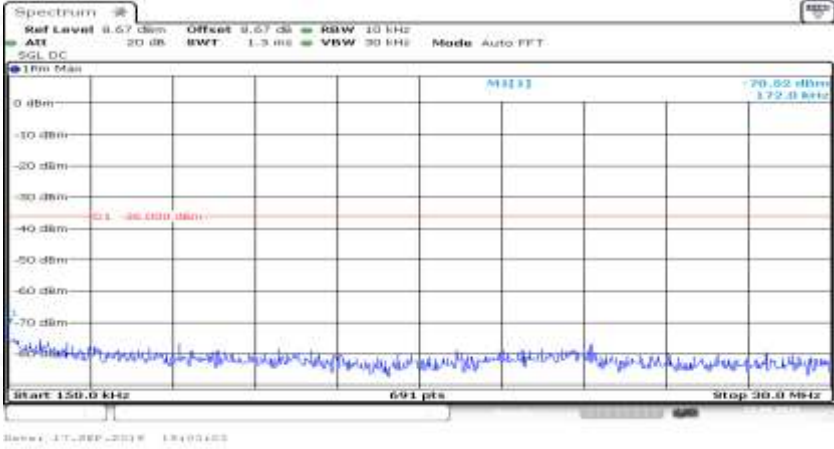
Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

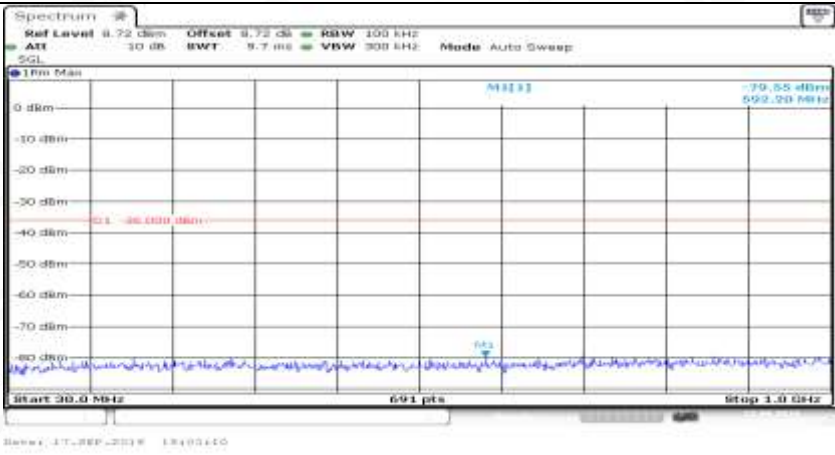
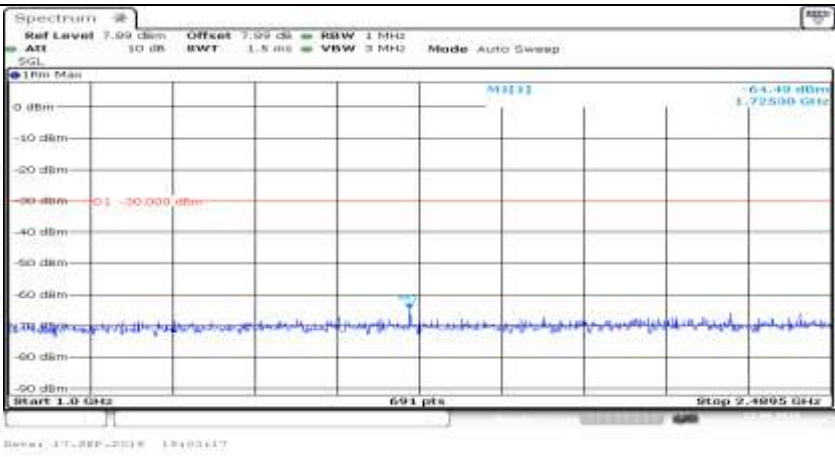


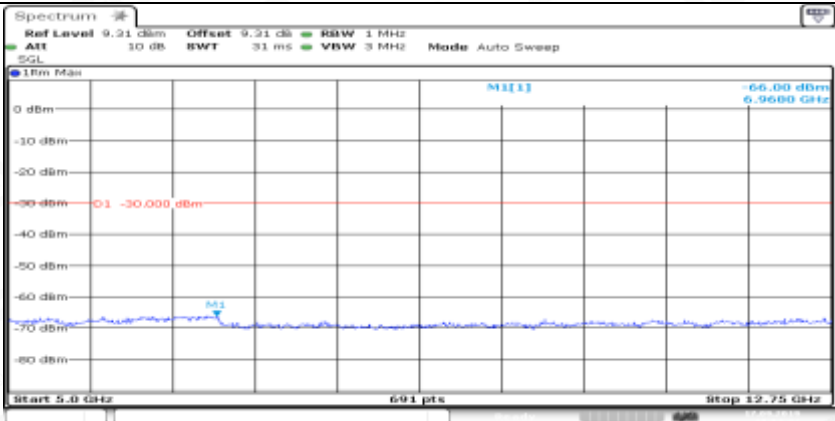
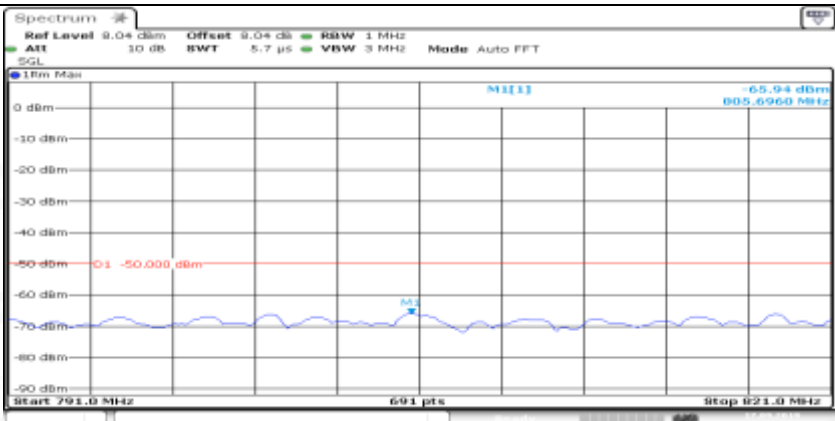
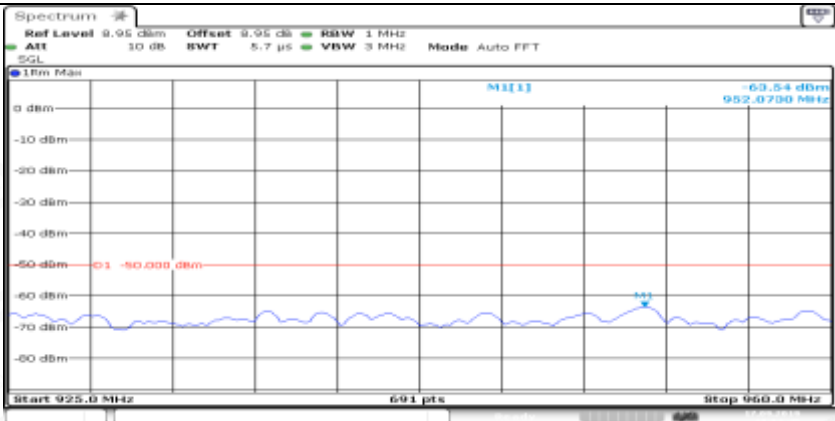
Co-existence	
Additional	NA


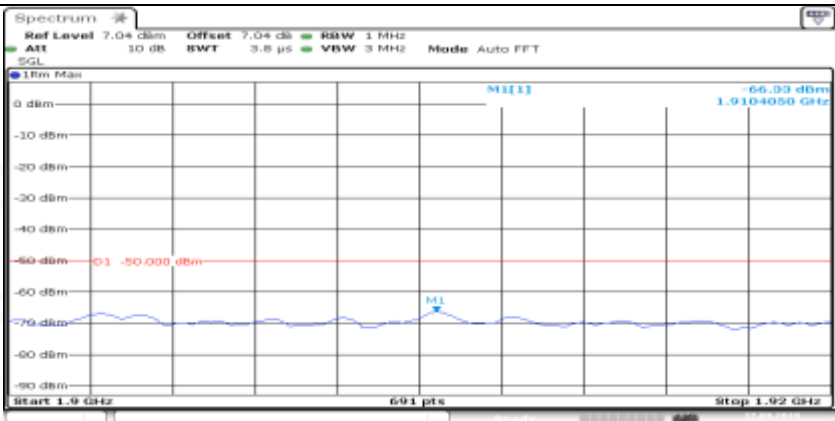
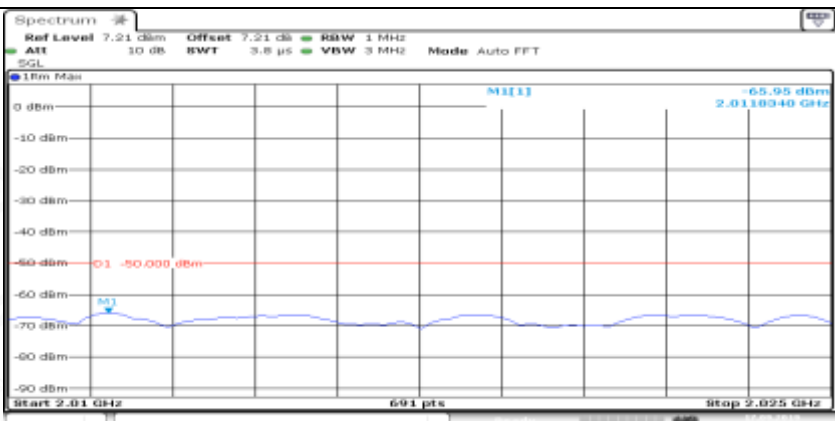
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0

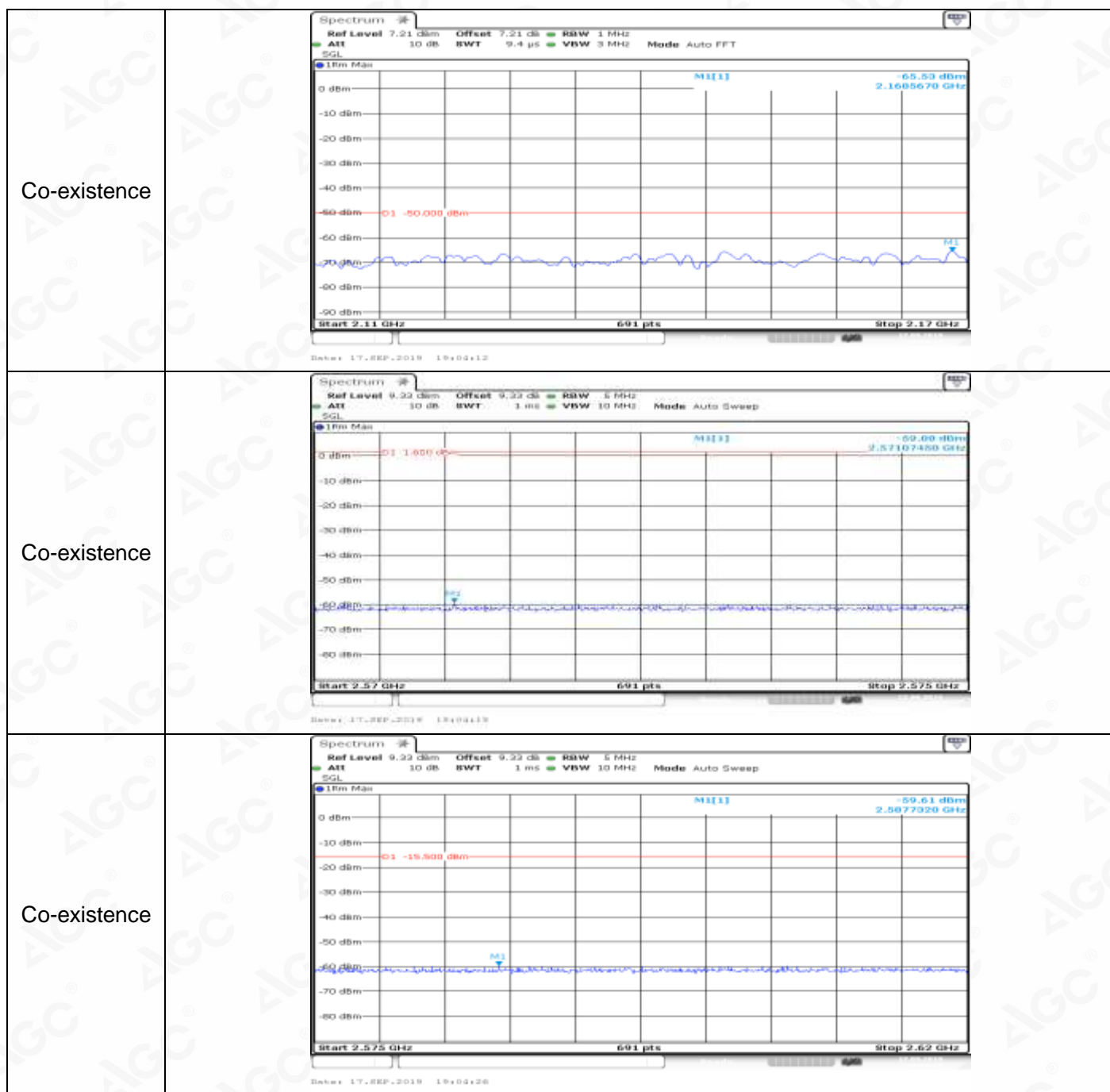
General	
General	

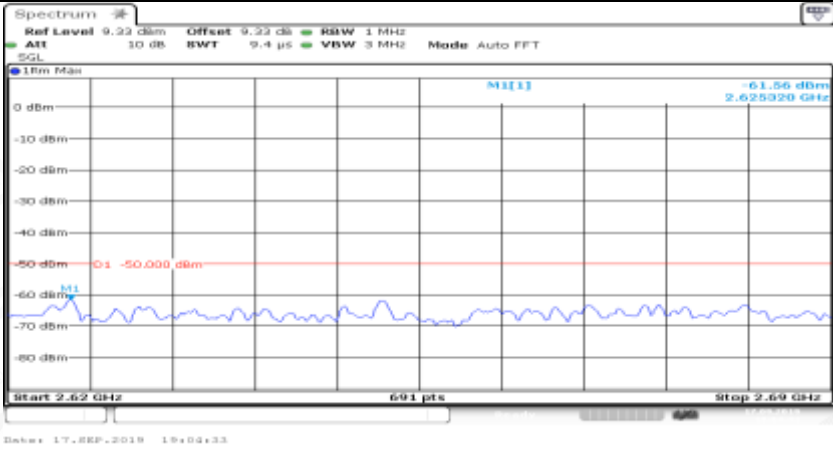
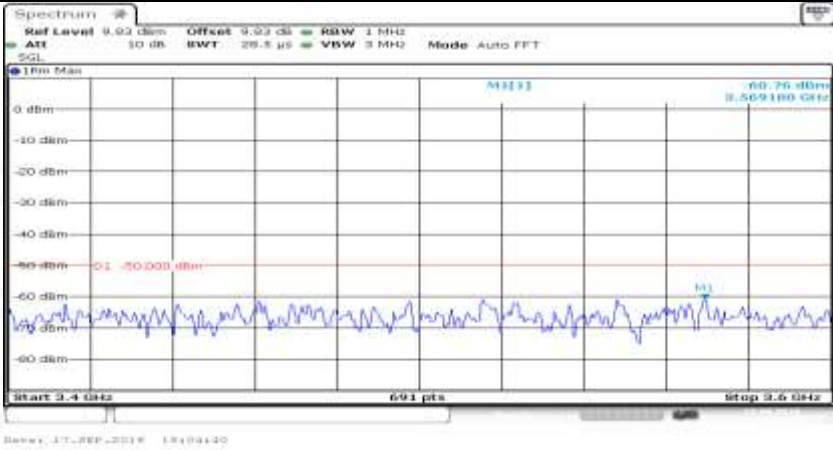
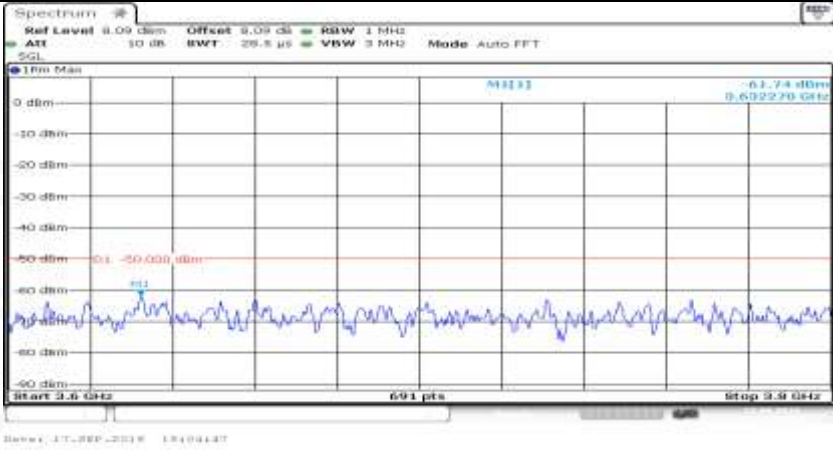


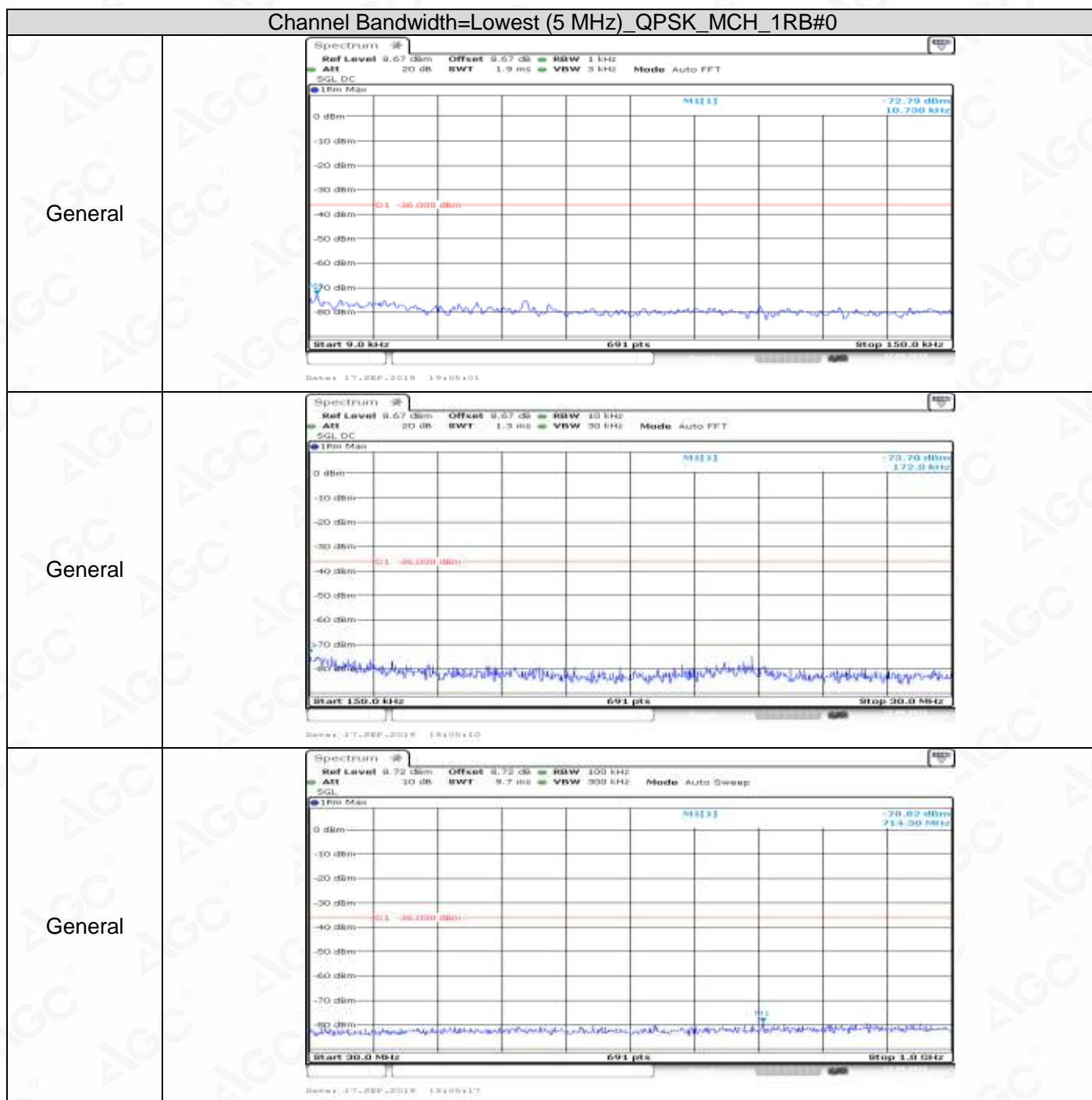
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General	

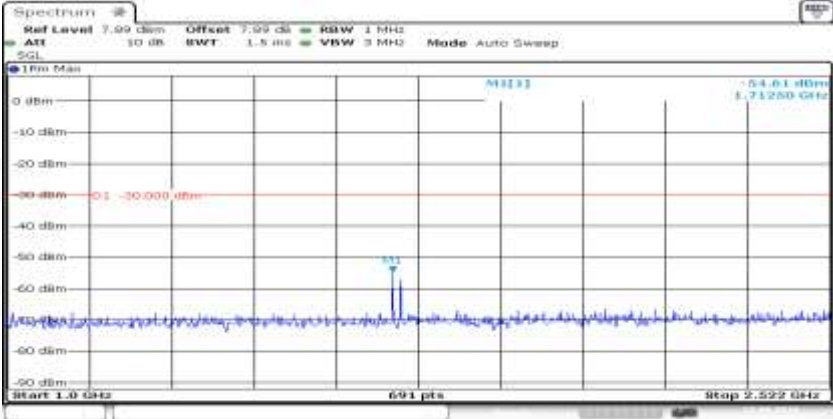
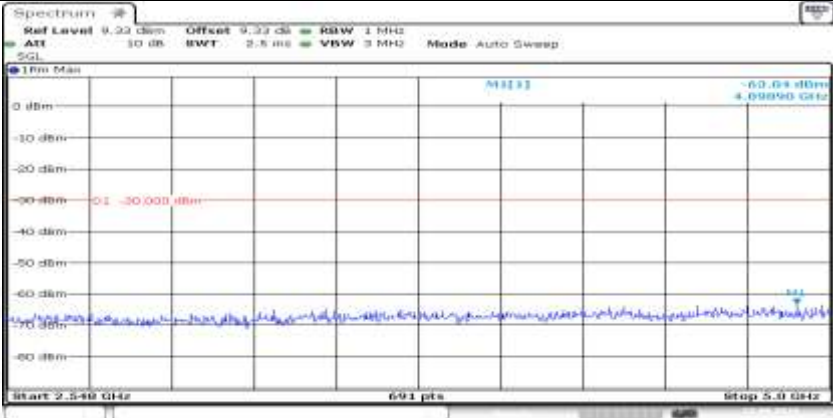
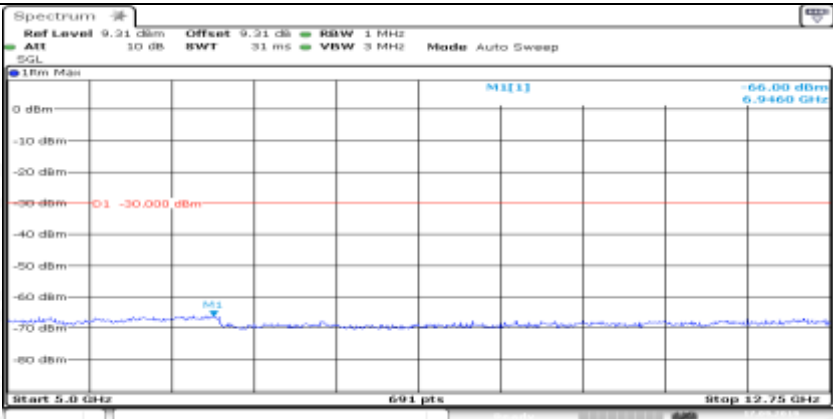
General	 <p>Ref Level 9.21 dBm Offset 9.21 dB RBW 1 MHz Att 10 dB BW 31 MHz VBW 3 MHz Mode Auto Sweep</p> <p>M1[1] -66.00 dBm 6.9680 GHz</p> <p>Start 5.0 GHz 691 pts Stop 12.75 GHz</p> <p>Date: 17-SEP-2019 19:03:31</p>
Co-existence	 <p>Ref Level 9.04 dBm Offset 9.04 dB RBW 1 MHz Att 10 dB BW 5.7 MHz VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -65.94 dBm 805.6960 MHz</p> <p>Start 791.0 MHz 691 pts Stop 821.0 MHz</p> <p>Date: 17-SEP-2019 19:03:38</p>
Co-existence	 <p>Ref Level 9.95 dBm Offset 9.95 dB RBW 1 MHz Att 10 dB BW 5.7 MHz VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -63.54 dBm 952.0700 MHz</p> <p>Start 925.0 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 17-SEP-2019 19:03:45</p>

Co-existence	 <p>Ref Level 6.79 dBm Offset 6.79 dB RBW 1 MHz Att 30 dB BW 31.4 μs VBW 3 MHz Mode Auto FFT</p> <p>O1 -50.000 dBm</p> <p>M1[1] -66.06 dBm 1.002200 GHz</p> <p>Start 1.000 GHz 691 pts Stop 1.004 GHz</p> <p>Date: 17-SEP-2019 19:03:42</p>
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB RBW 1 MHz Att 30 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>O1 -50.000 dBm</p> <p>M1[1] -66.93 dBm 1.9104050 GHz</p> <p>Start 1.908 GHz 691 pts Stop 1.912 GHz</p> <p>Date: 17-SEP-2019 19:03:59</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz Att 30 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>O1 -50.000 dBm</p> <p>M1[1] -65.95 dBm 2.0110340 GHz</p> <p>Start 2.009 GHz 691 pts Stop 2.013 GHz</p> <p>Date: 17-SEP-2019 19:04:05</p>

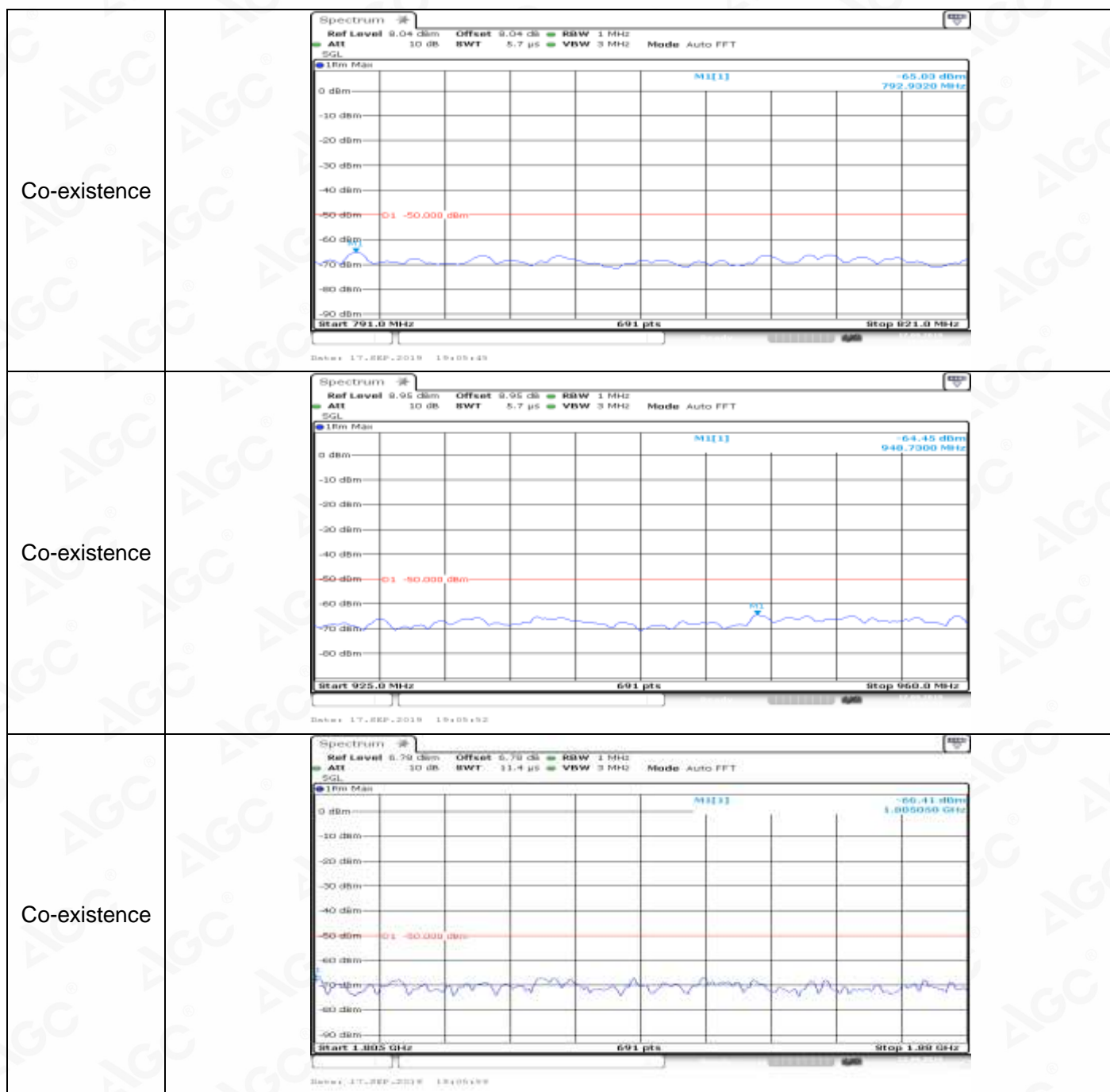


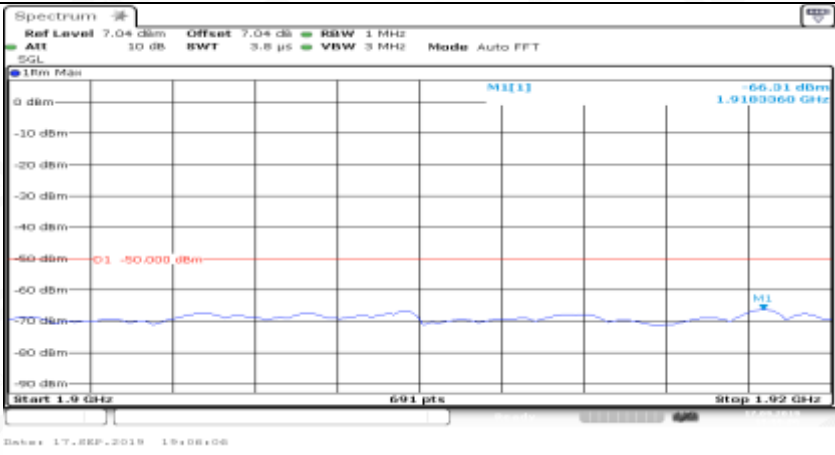
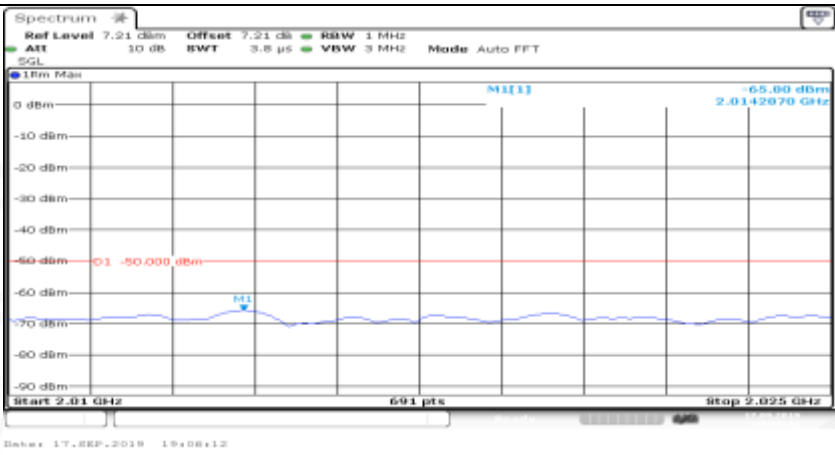

Co-existence	 <p>Spectrum plot showing signal levels (dBm) versus frequency (GHz). The plot displays a blue signal line fluctuating around -60 dBm, with a red line at -50.000 dBm. The x-axis ranges from 2.62 GHz to 2.69 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
Co-existence	 <p>Spectrum plot showing signal levels (dBm) versus frequency (GHz). The plot displays a blue signal line fluctuating around -60 dBm, with a red line at -50.000 dBm. The x-axis ranges from 2.54 GHz to 2.6 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
Co-existence	 <p>Spectrum plot showing signal levels (dBm) versus frequency (GHz). The plot displays a blue signal line fluctuating around -60 dBm, with a red line at -50.000 dBm. The x-axis ranges from 2.54 GHz to 2.6 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
Additional	NA

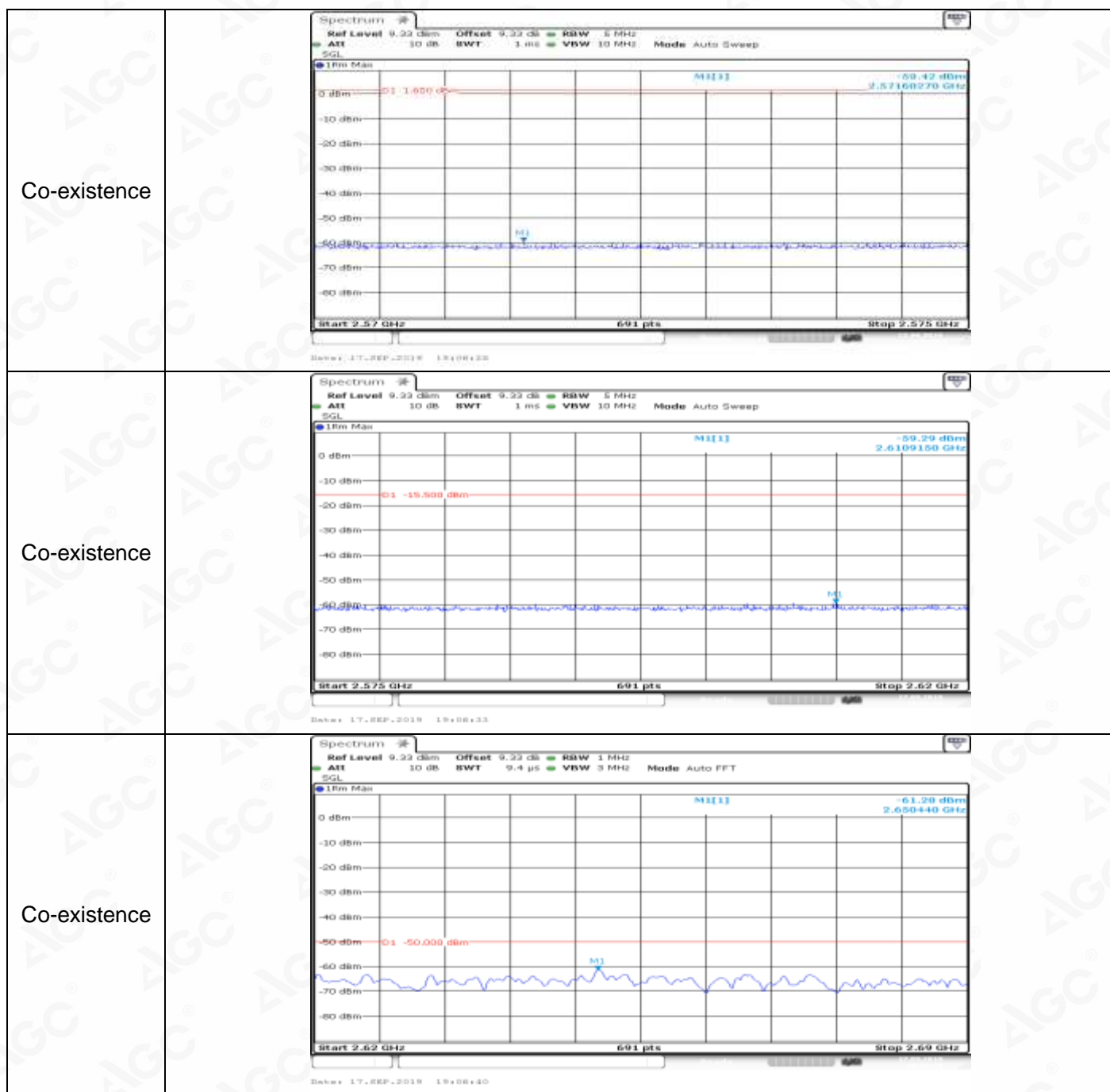


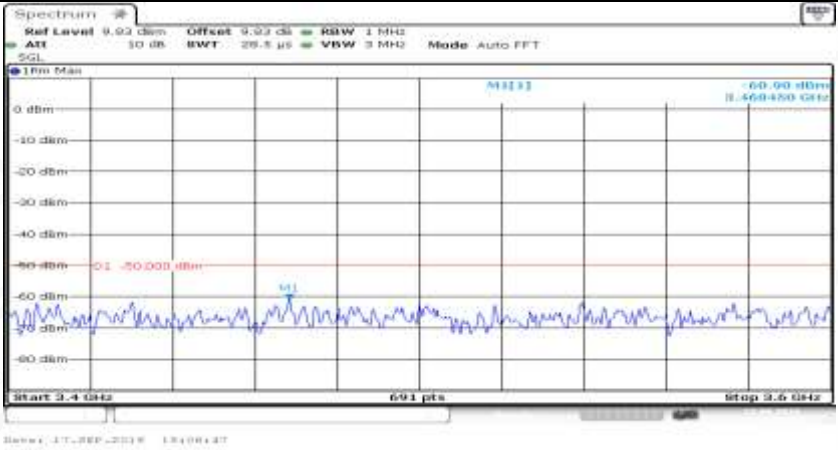
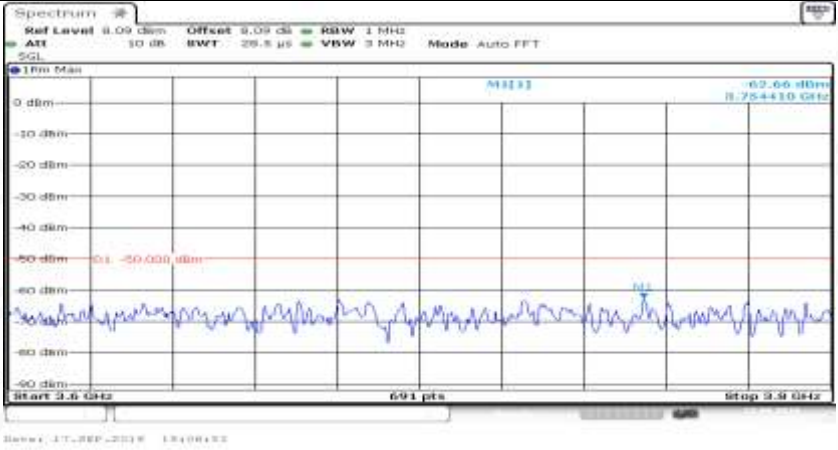
General	 <p>Spectrum plot showing a signal at approximately 1.71250 GHz. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in GHz, ranging from 1.0 to 2.522. The plot shows a sharp peak at the specified frequency, with a power level of approximately -54.61 dBm. The background noise floor is around -60 dBm.</p>
General	 <p>Spectrum plot showing a signal at approximately 4.09890 GHz. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in GHz, ranging from 2.540 to 5.0. The plot shows a sharp peak at the specified frequency, with a power level of approximately -60.68 dBm. The background noise floor is around -60 dBm.</p>
General	 <p>Spectrum plot showing a signal at approximately 6.9460 GHz. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in GHz, ranging from 5.0 to 12.75. The plot shows a sharp peak at the specified frequency, with a power level of approximately -66.00 dBm. The background noise floor is around -60 dBm.</p>

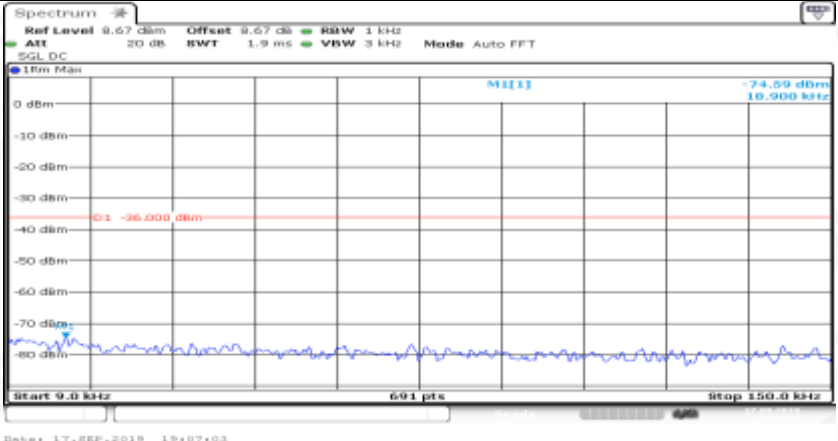


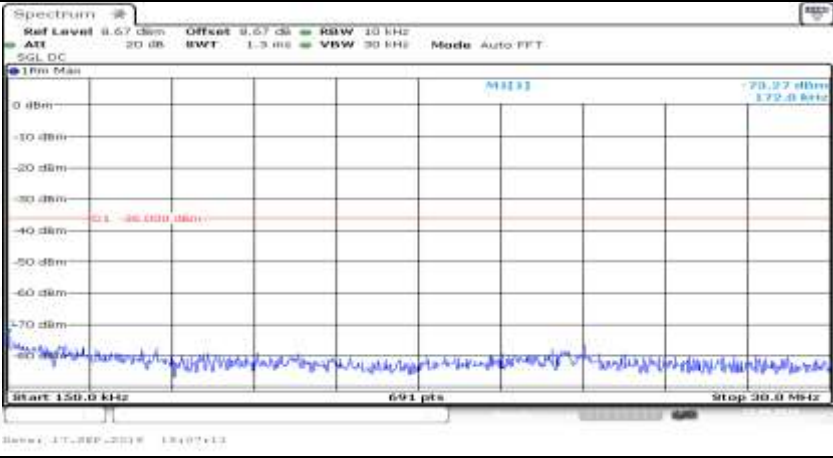
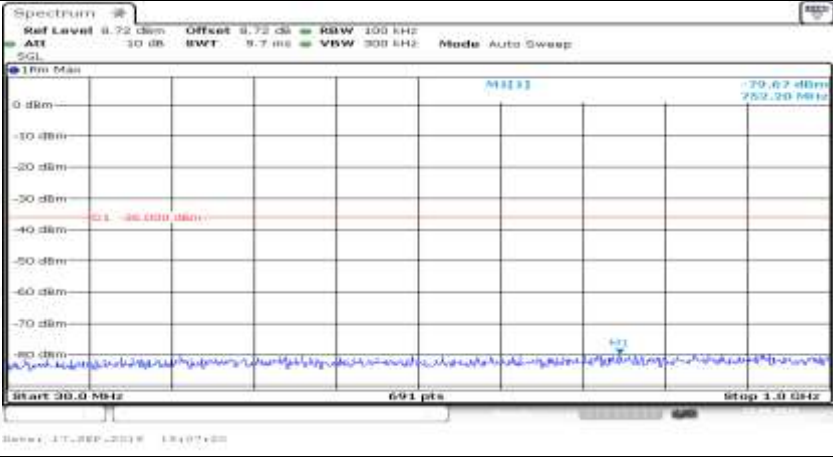
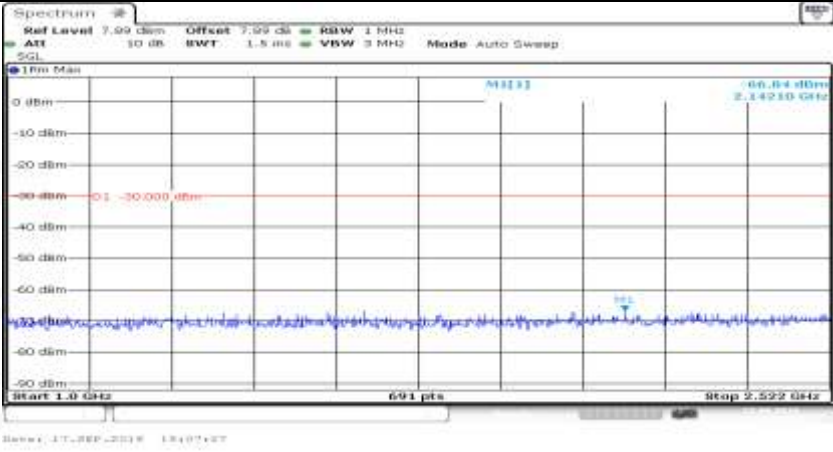


Co-existence	
Co-existence	
Co-existence	

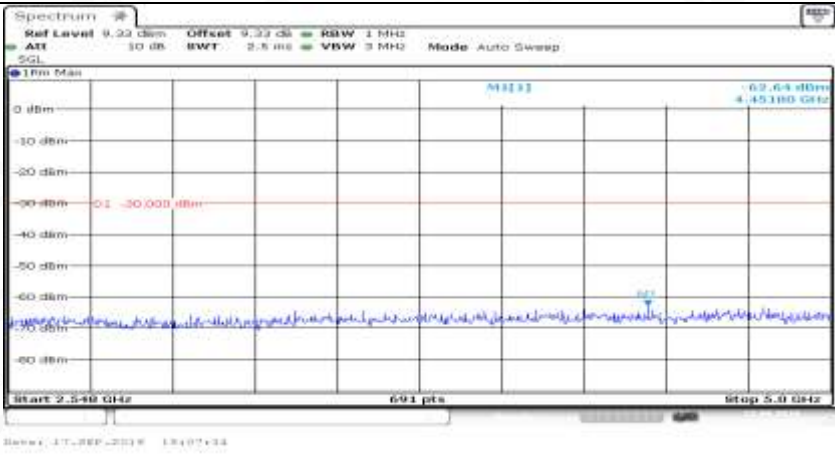
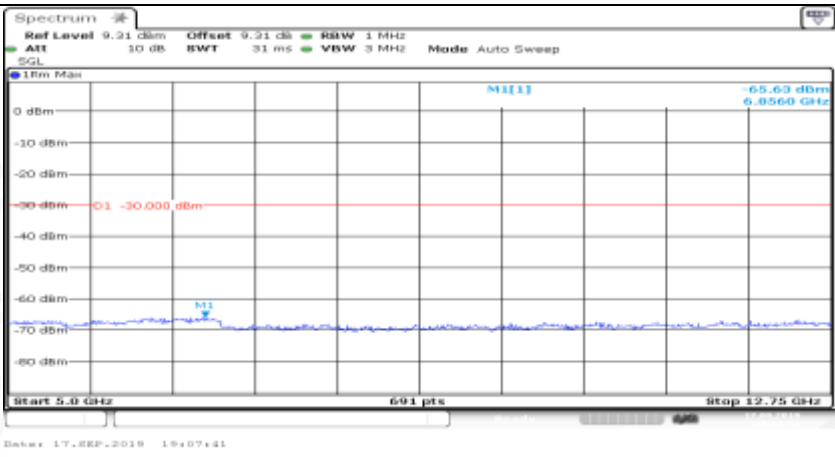
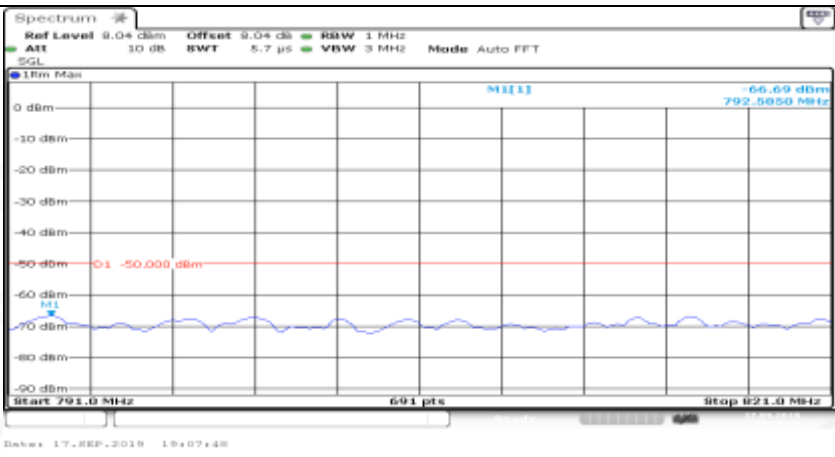


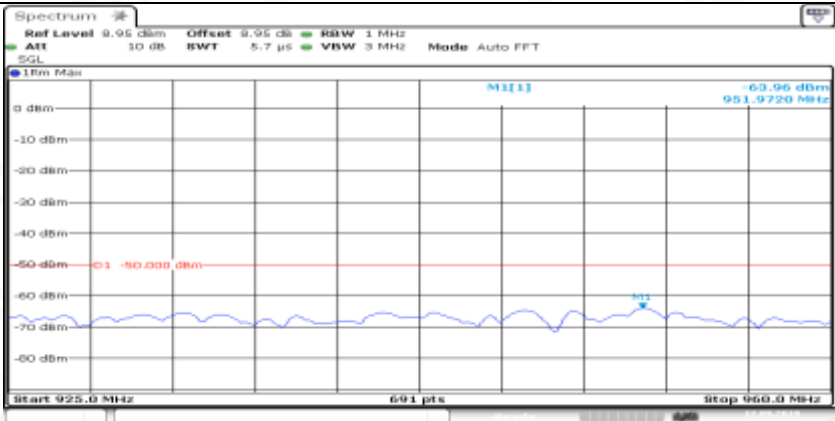

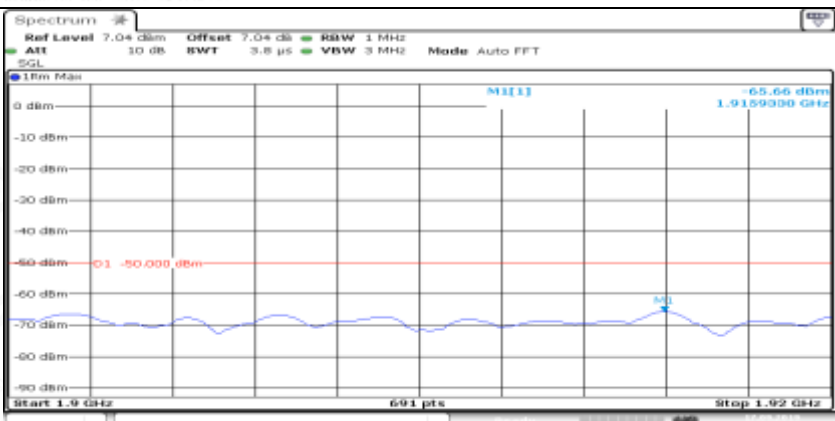
Co-existence	
Co-existence	
Additional	NA

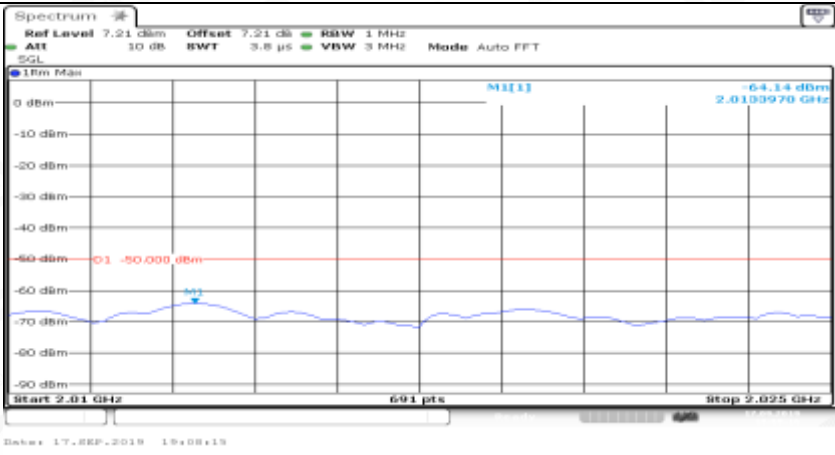

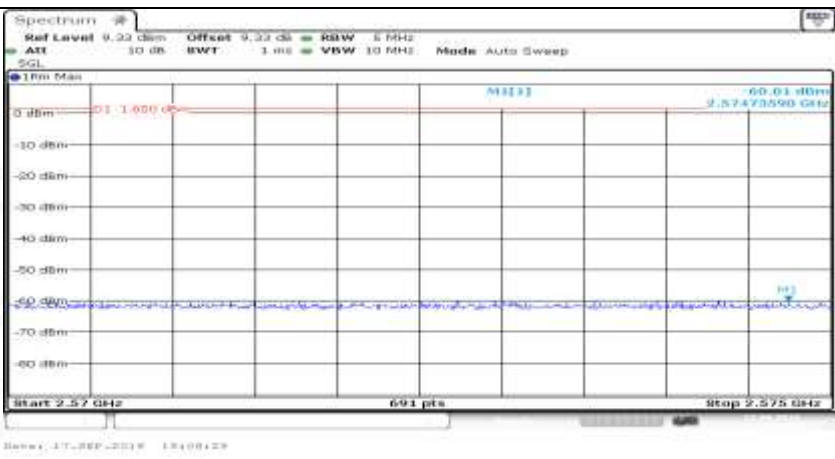
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

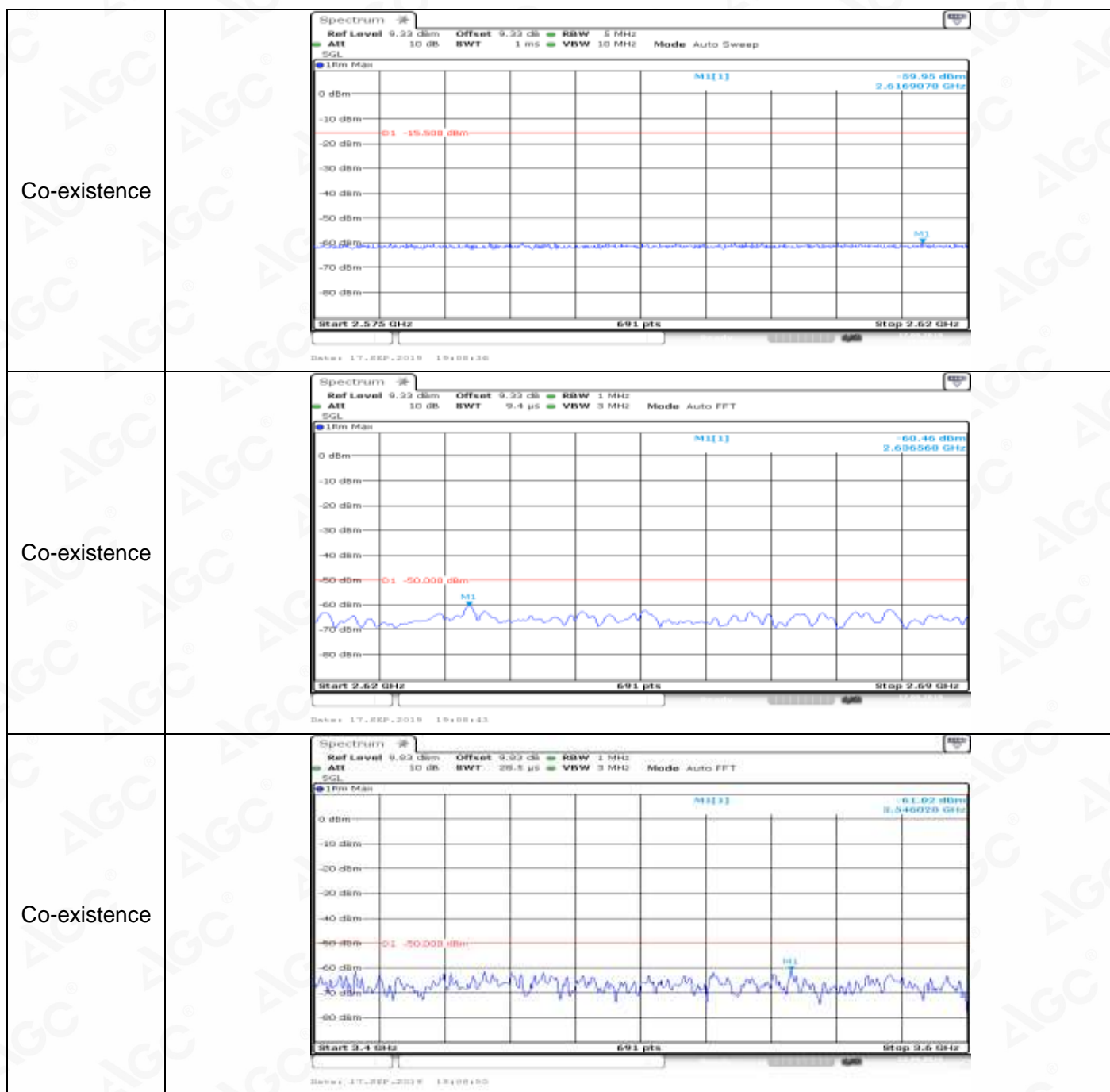
General	
General	
General	

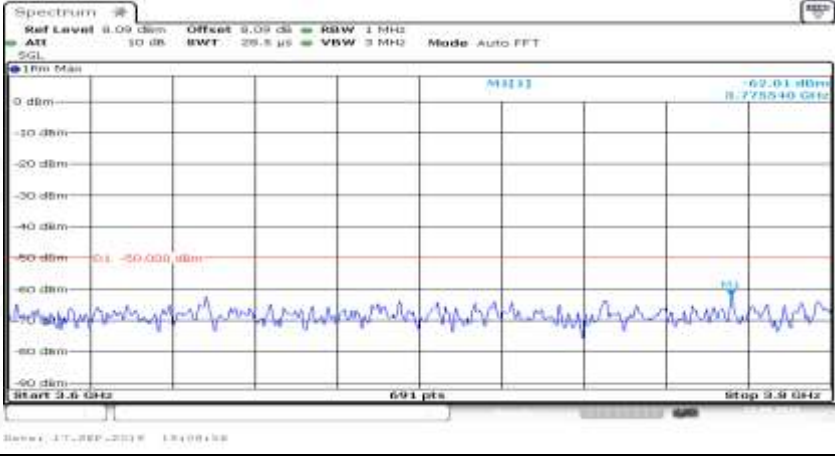


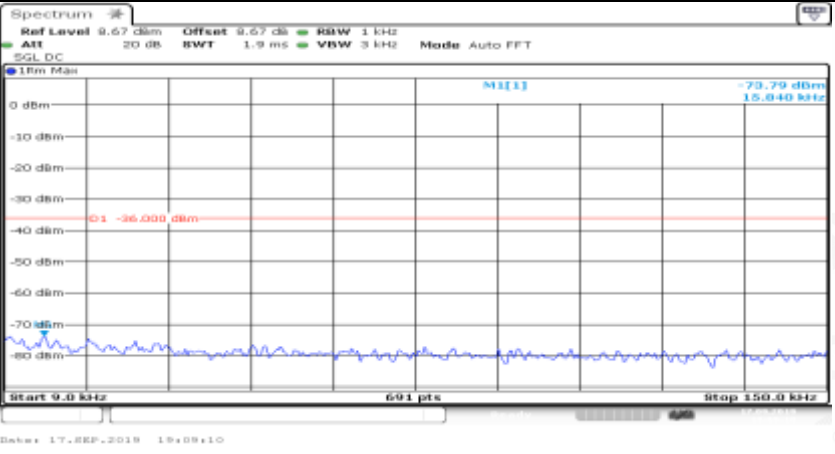
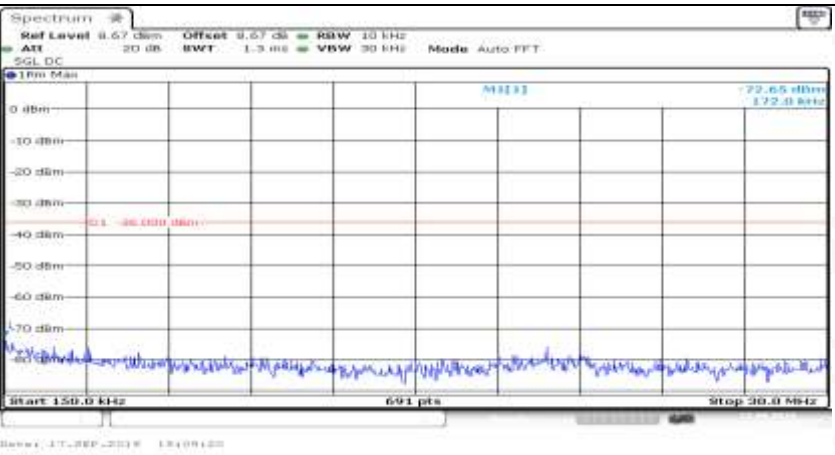
General	
General	
Co-existence	

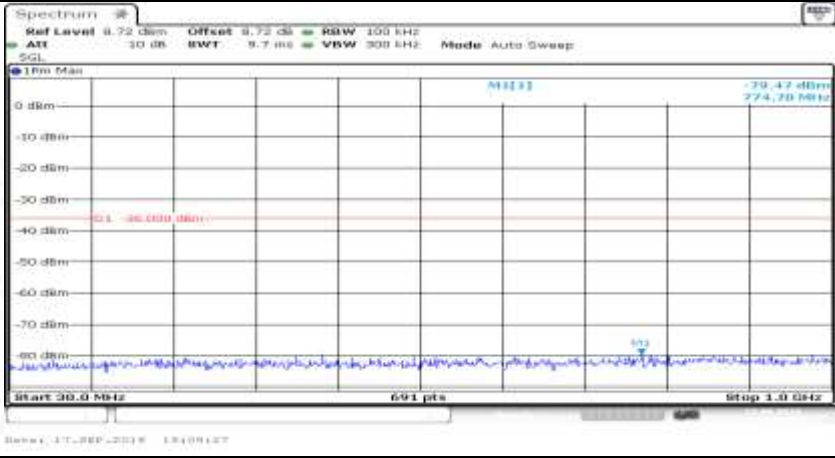
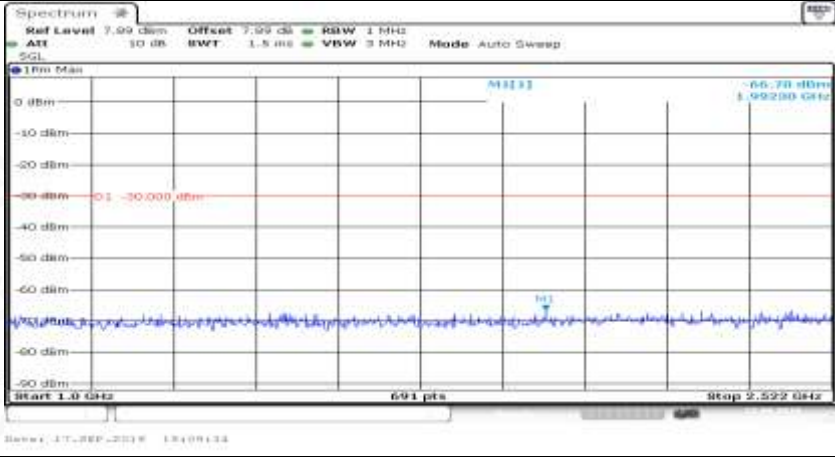
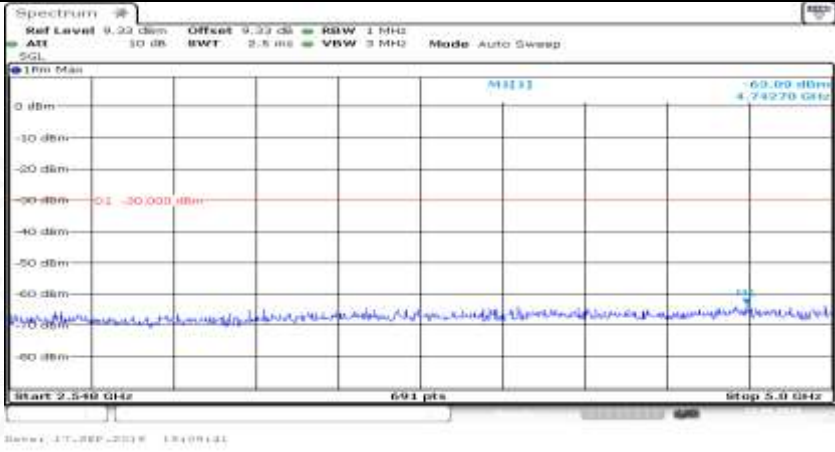
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.95 dBm Offset 9.95 dB RBW 1 MHz ATT 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 925.0 MHz 691 pts Stop 950.0 MHz</p> <p>951.9720 MHz -63.96 dBm</p> <p>Date: 17-SEP-2019 19:07:55</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 6.79 dBm Offset 6.79 dB RBW 1 MHz ATT 10 dB BW 11.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 1.805 GHz 691 pts Stop 1.89 GHz</p> <p>1.878500 GHz -66.78 dBm</p> <p>Date: 17-SEP-2019 19:08:02</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.04 dBm Offset 7.04 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>1.9159330 GHz -65.66 dBm</p> <p>Date: 17-SEP-2019 19:08:08</p>

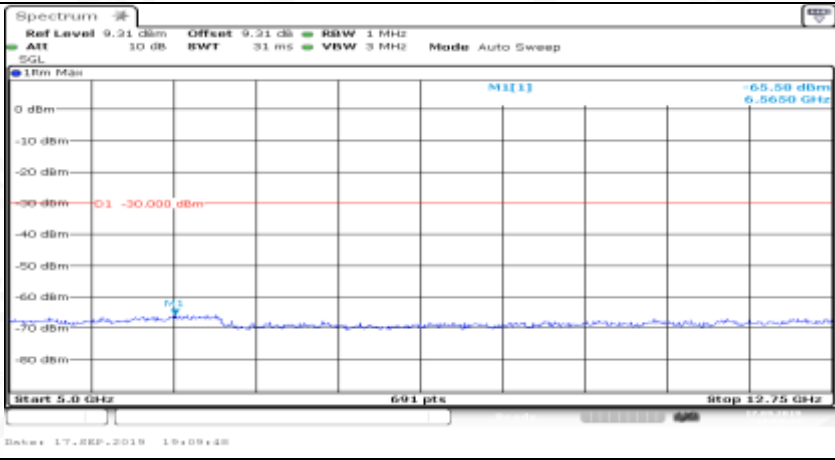
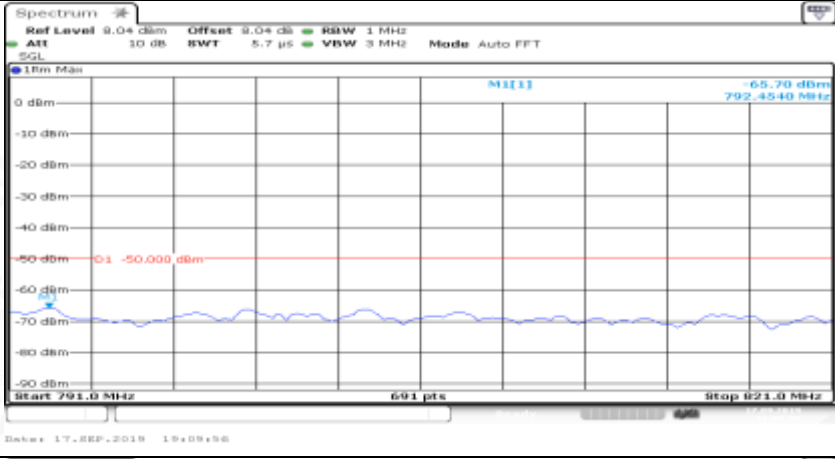
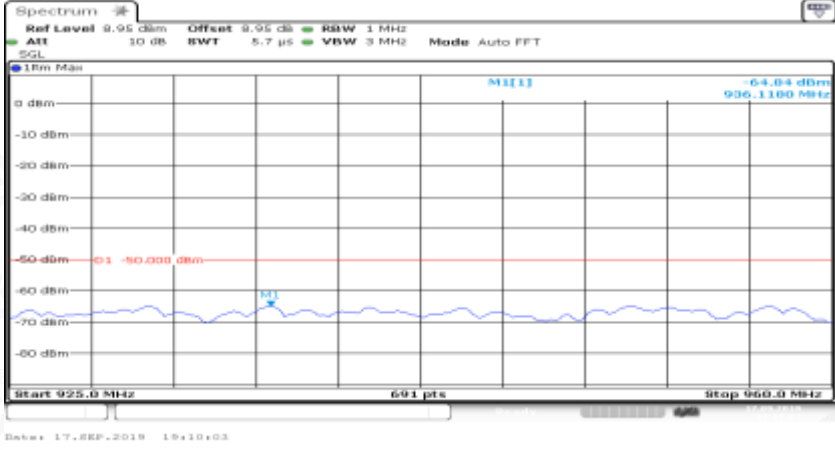
Co-existence	
Co-existence	
Co-existence	


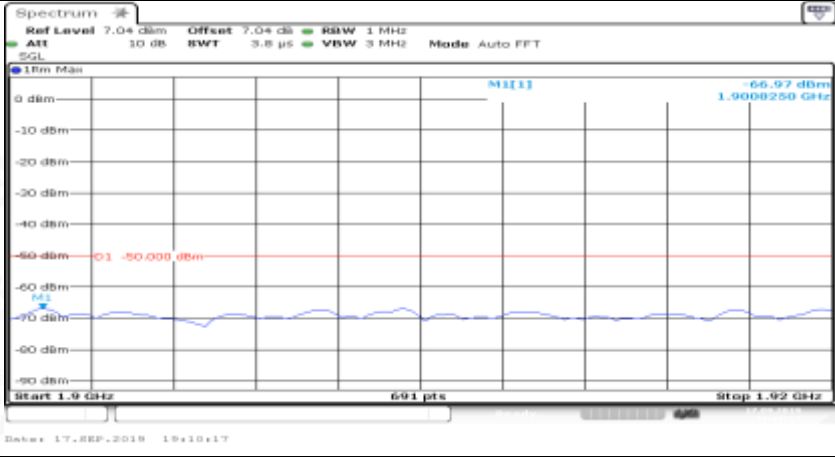
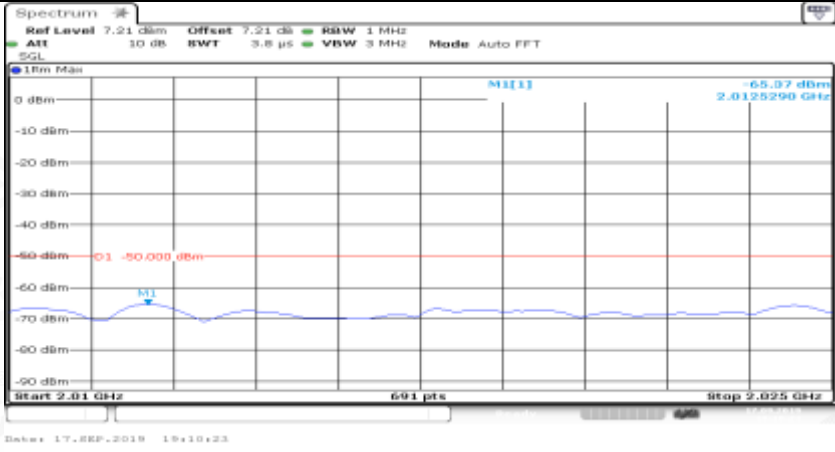


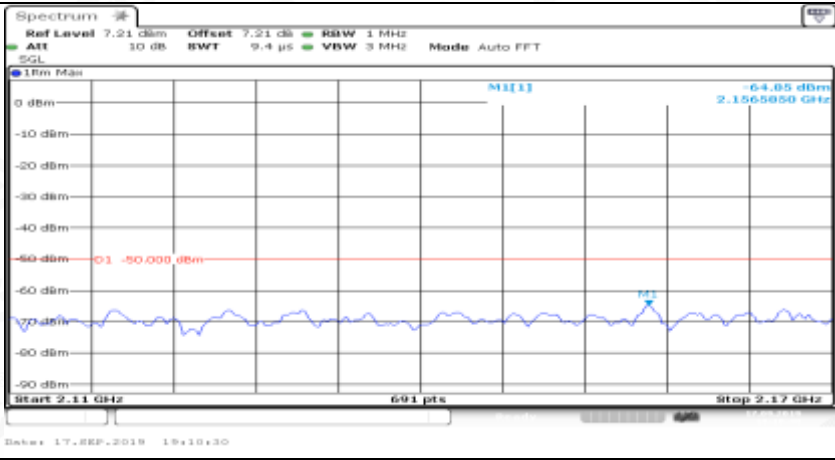
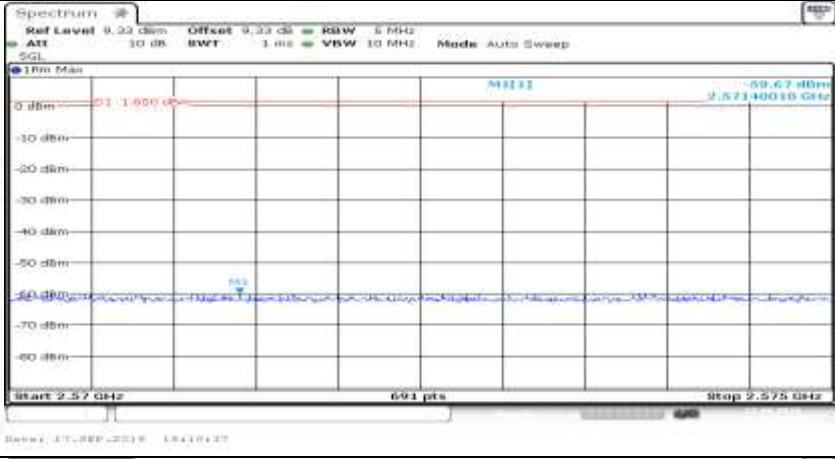
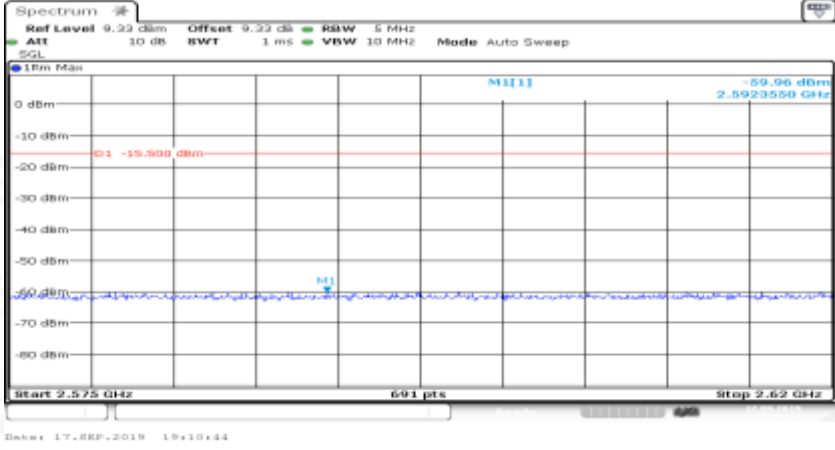
Co-existence	
Additional	NA

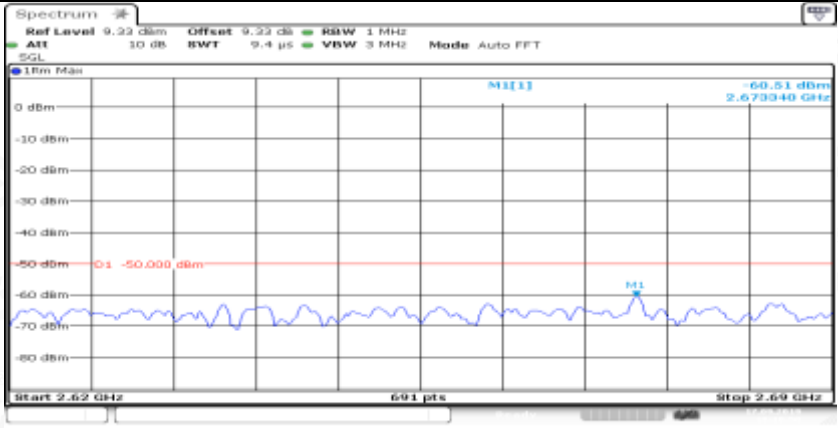
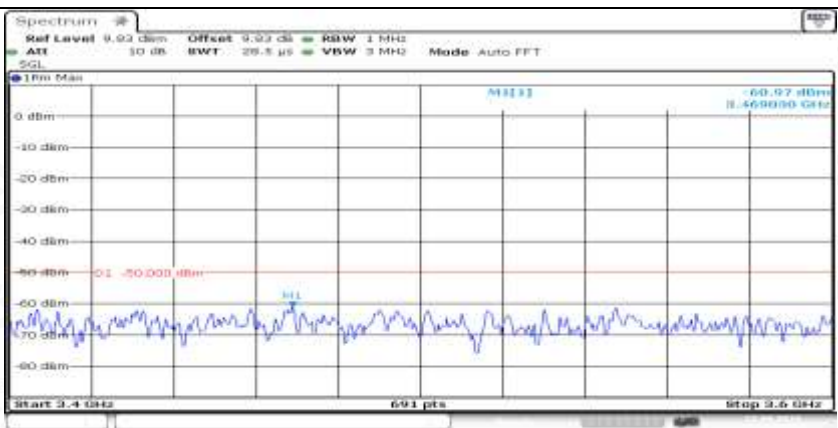
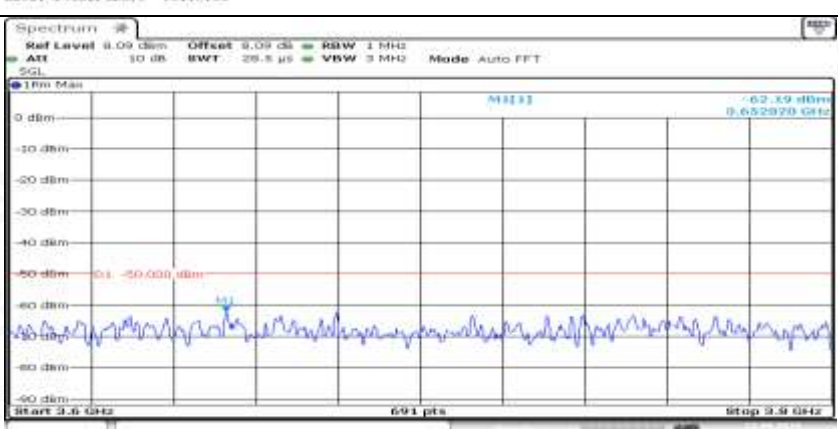
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	
General	

General	
General	
General	

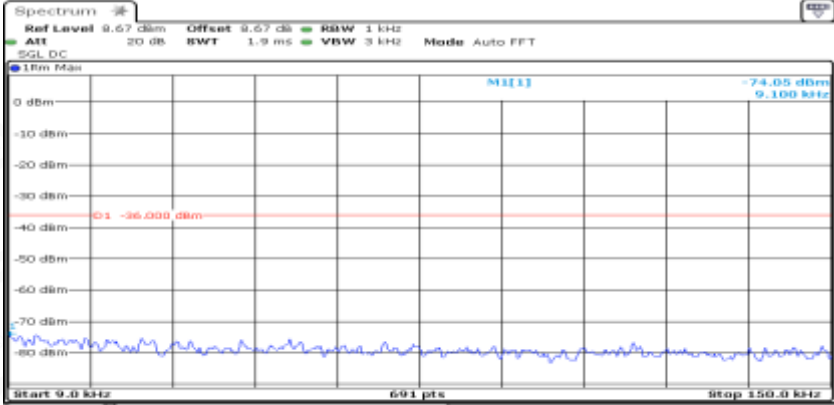
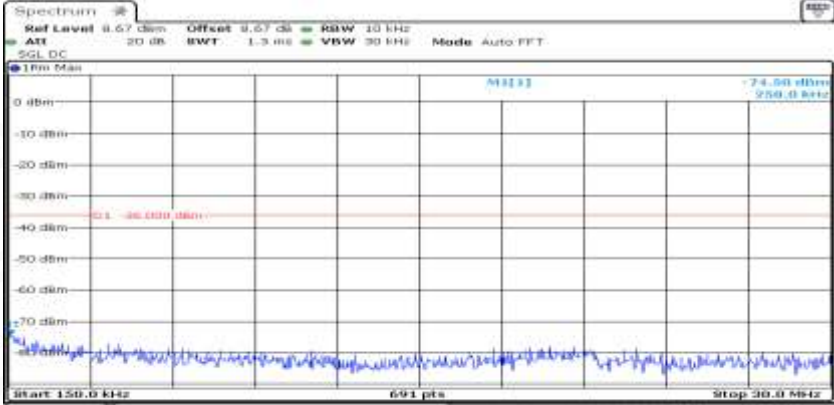
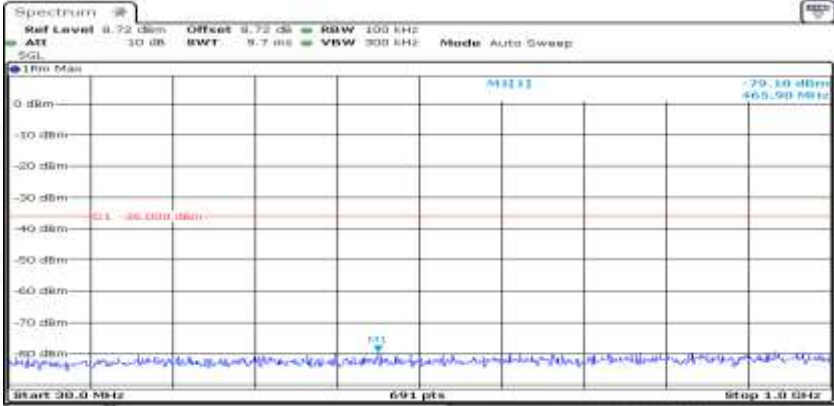
General	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

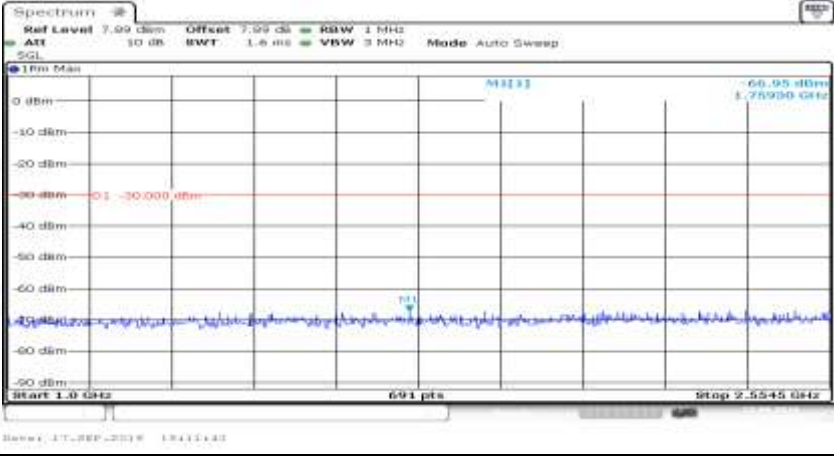
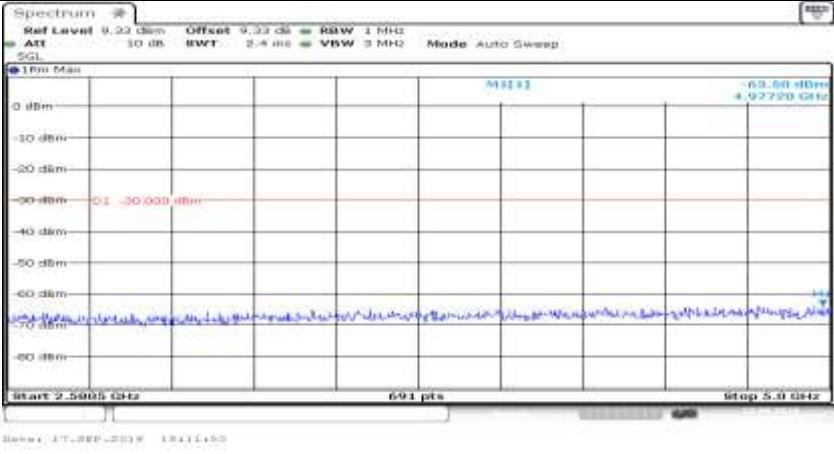
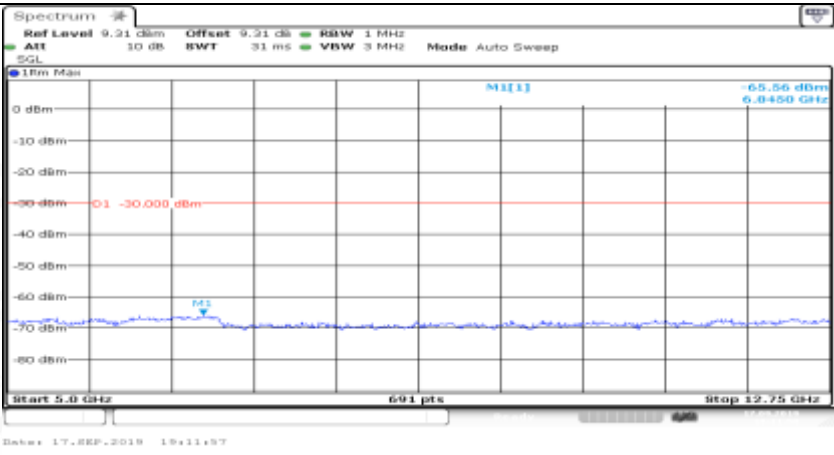
Co-existence	
Co-existence	
Co-existence	

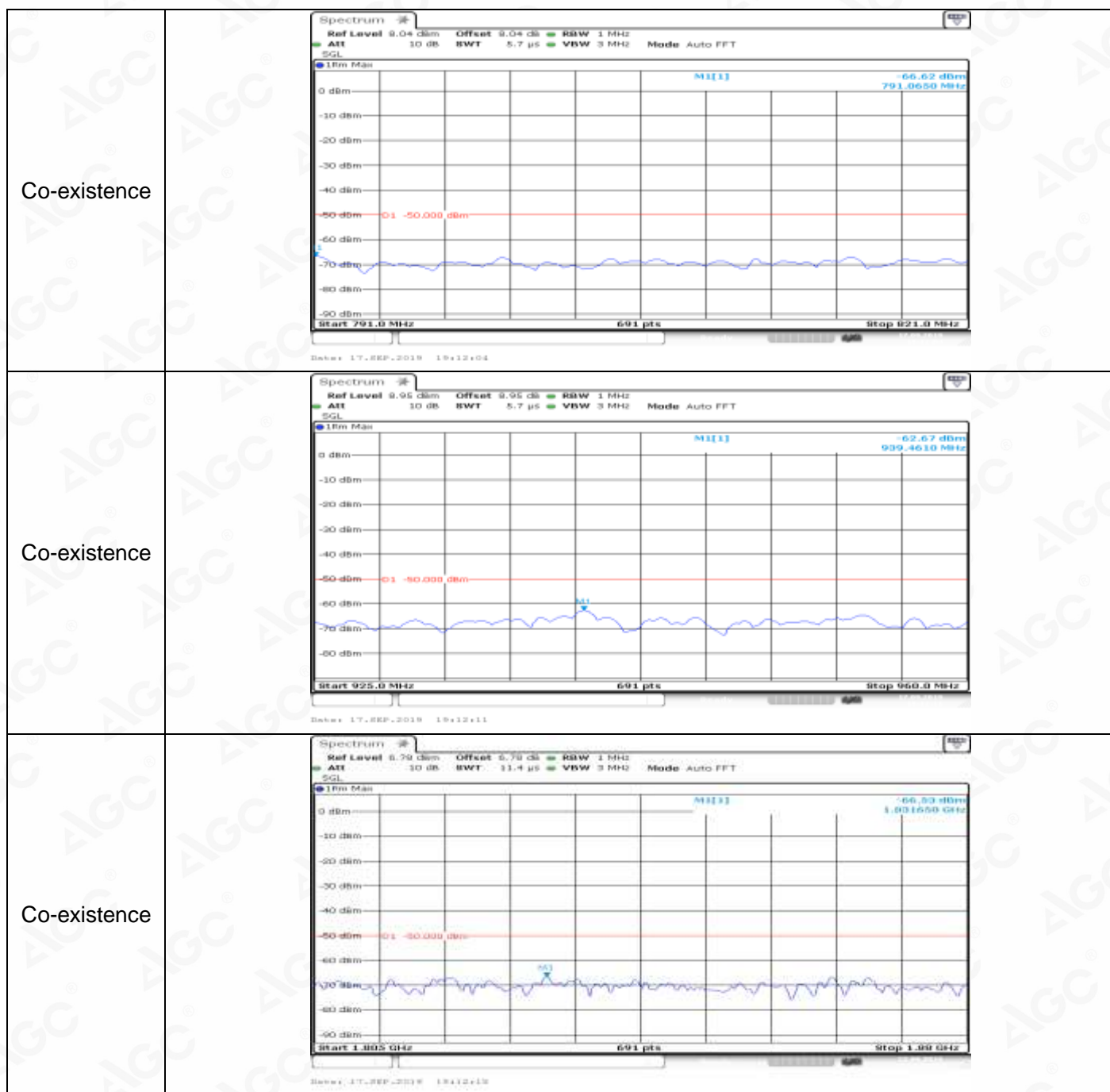
Co-existence	
Co-existence	
Co-existence	
Additional	NA

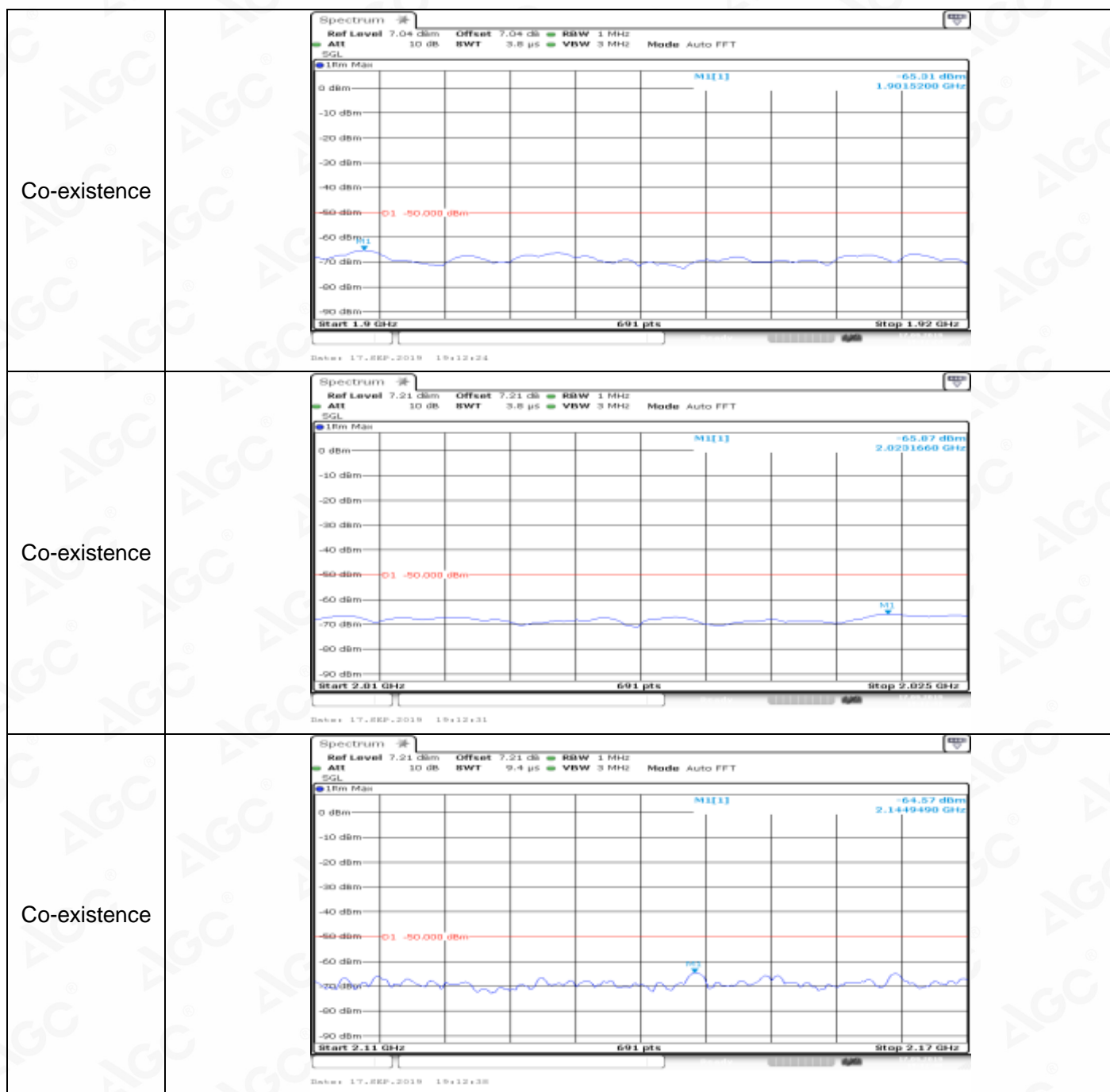
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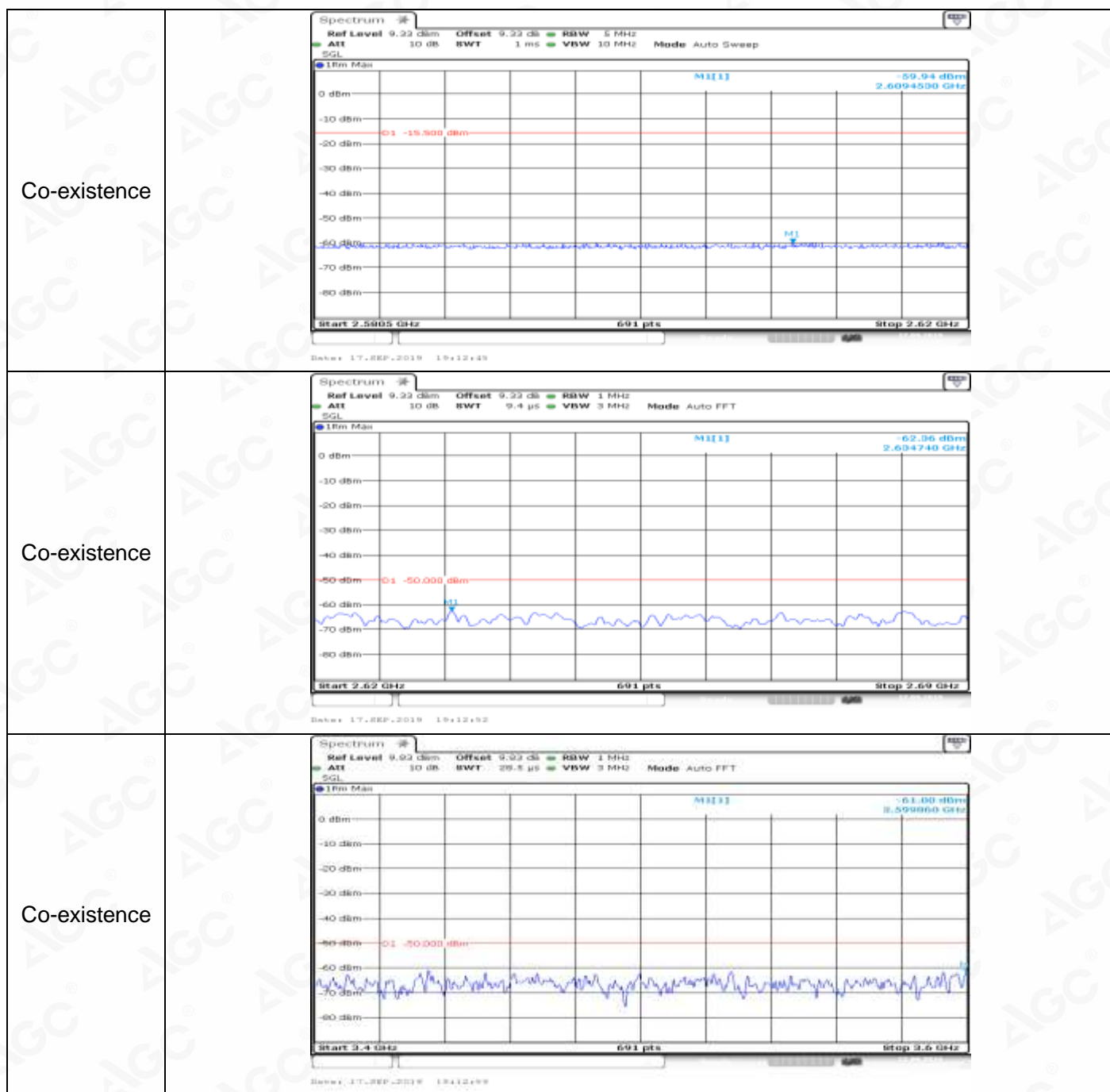
General	
General	
General	

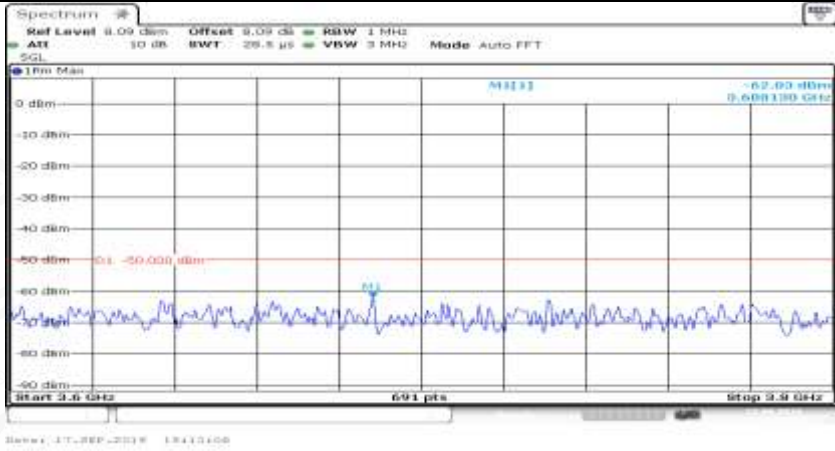


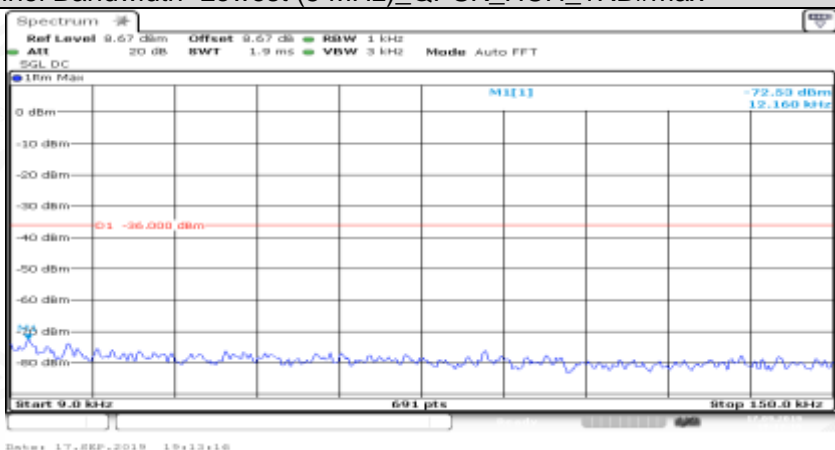
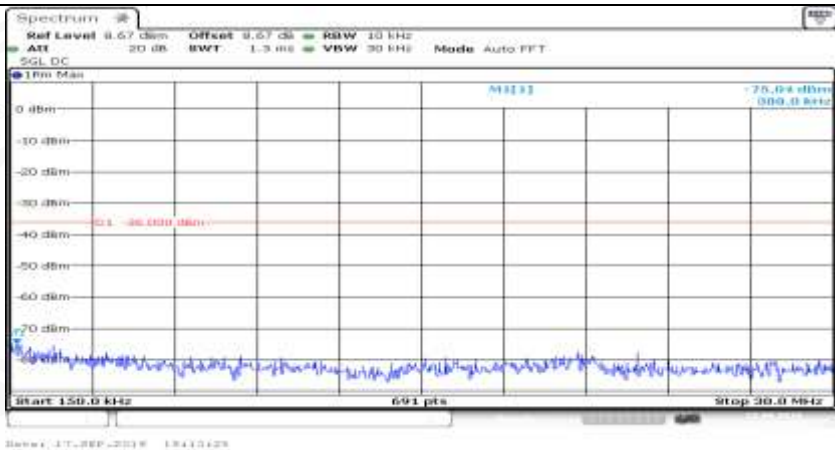
General	
General	
General	

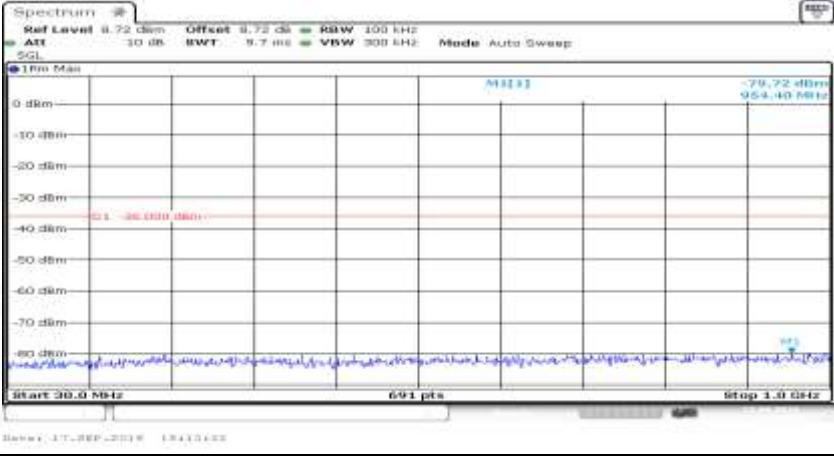
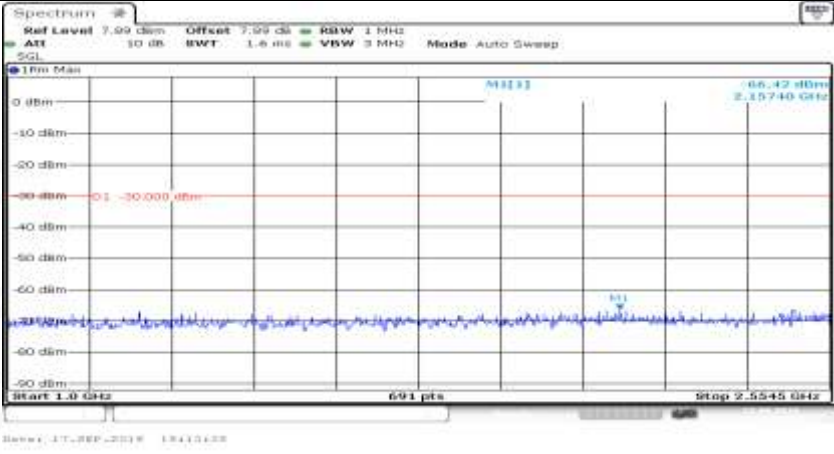
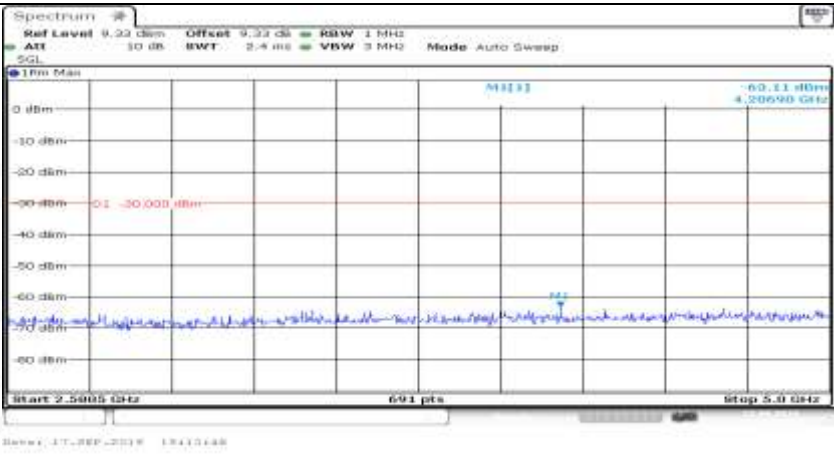


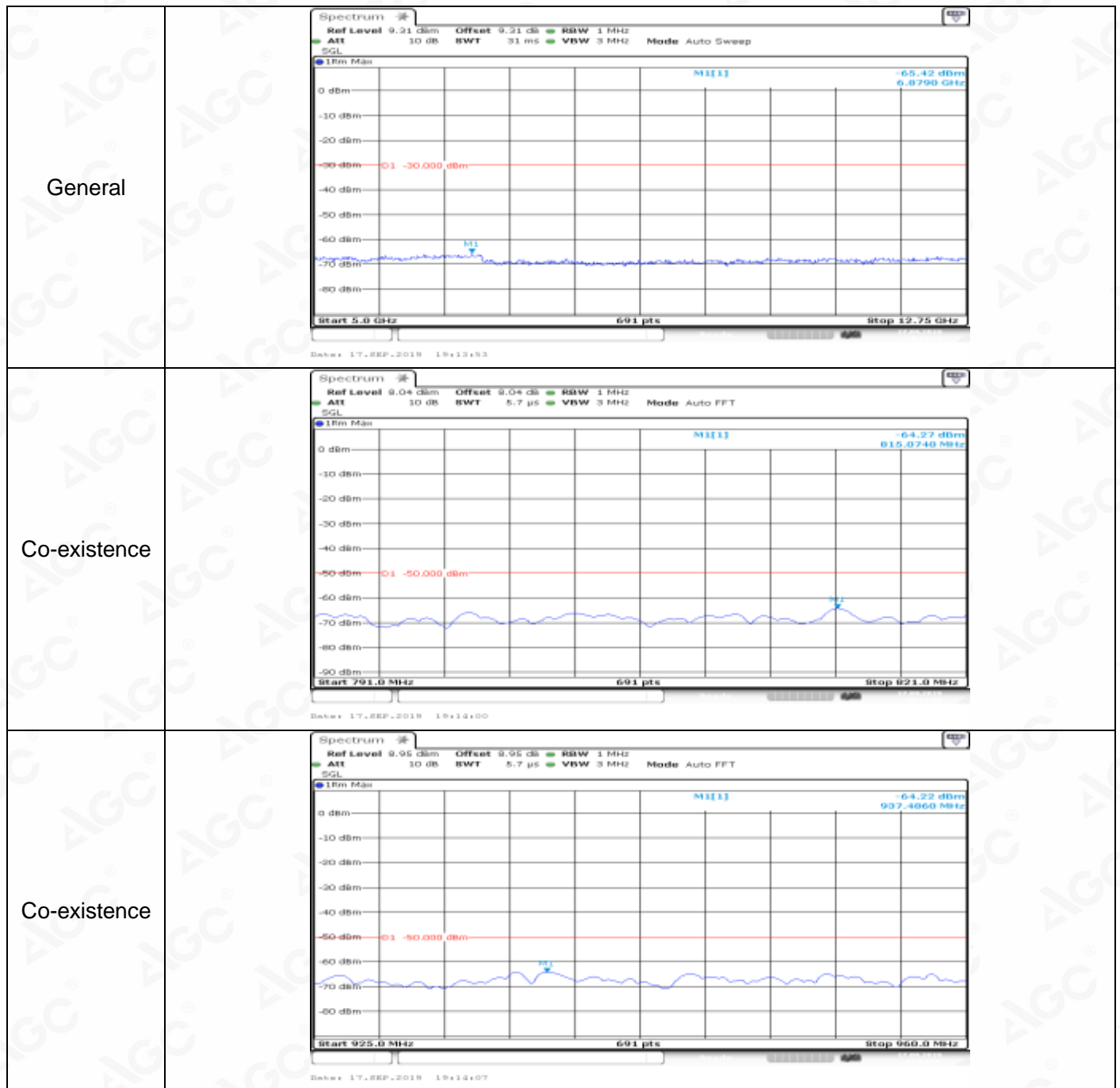


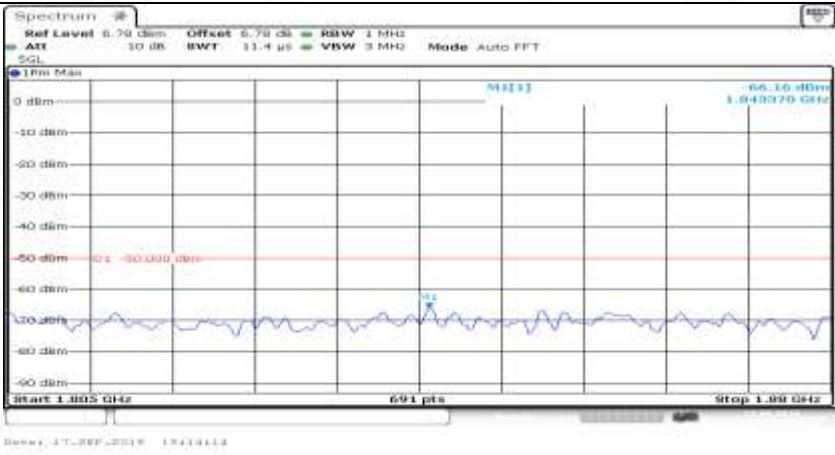
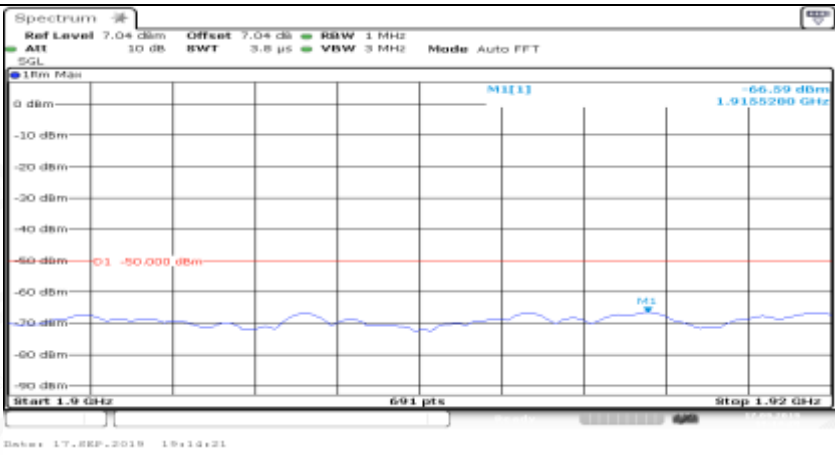
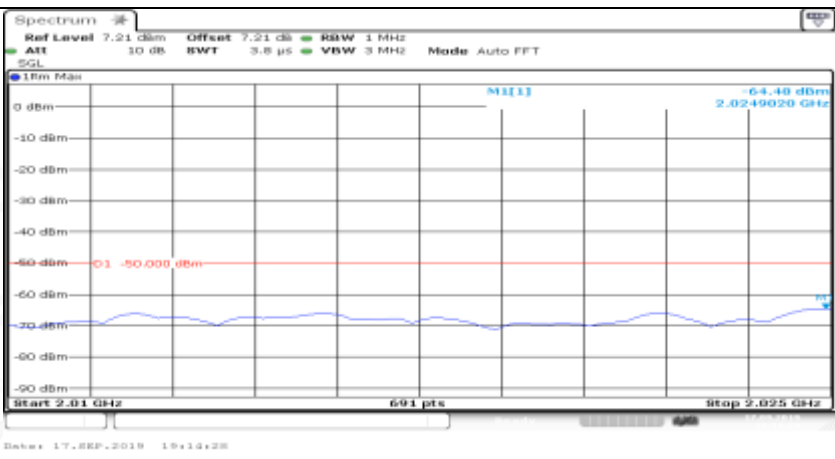


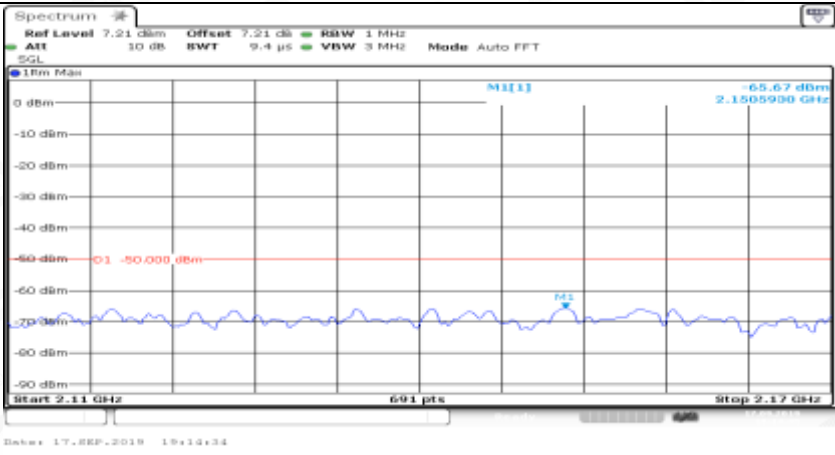
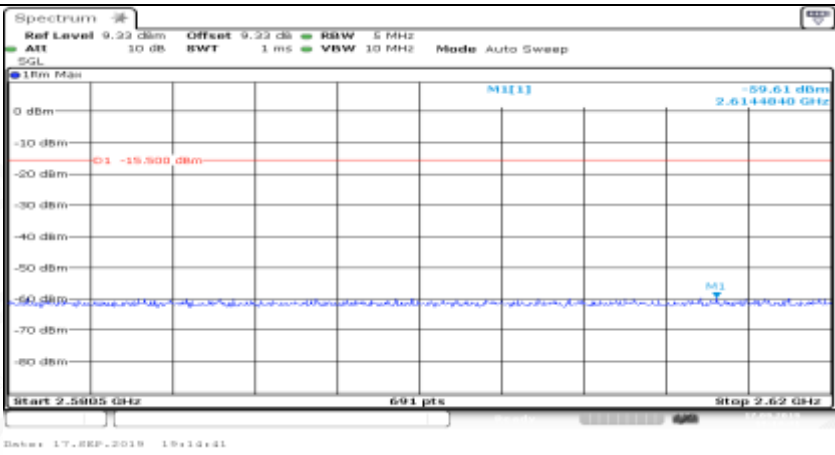
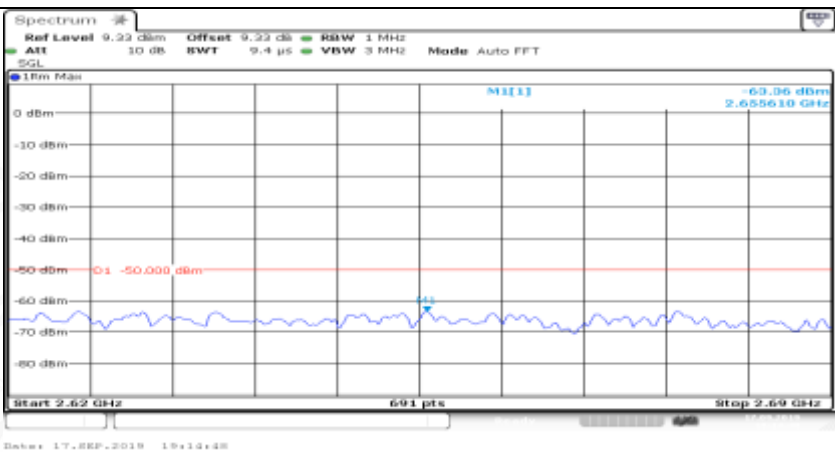
Co-existence	
Additional	NA

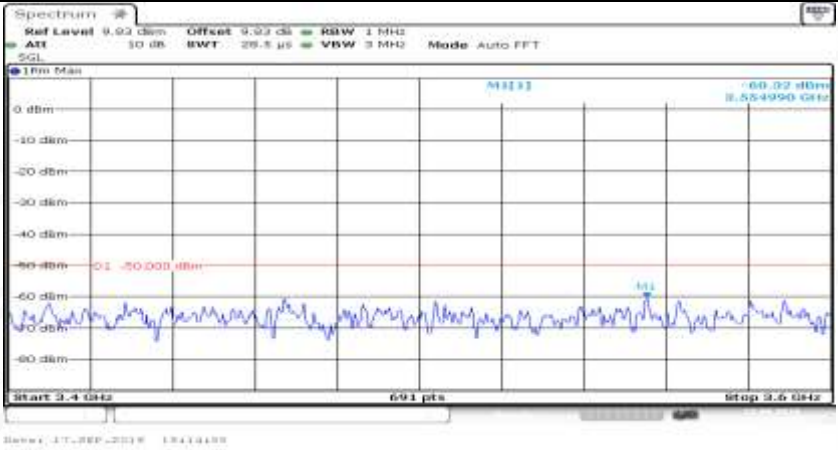
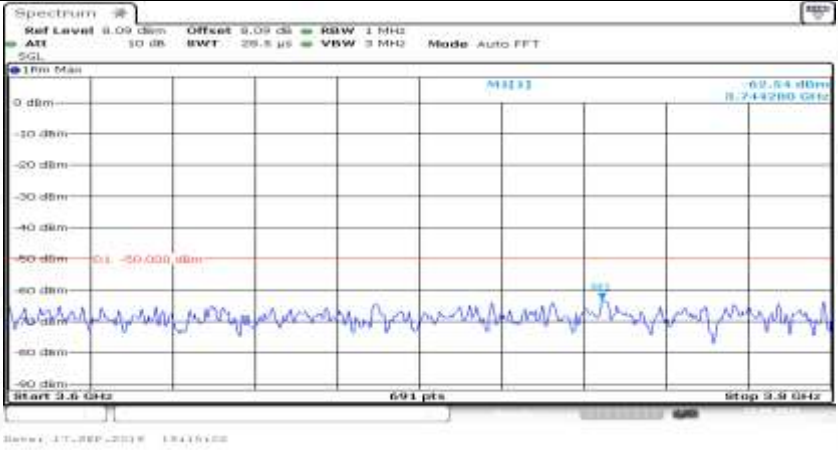
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

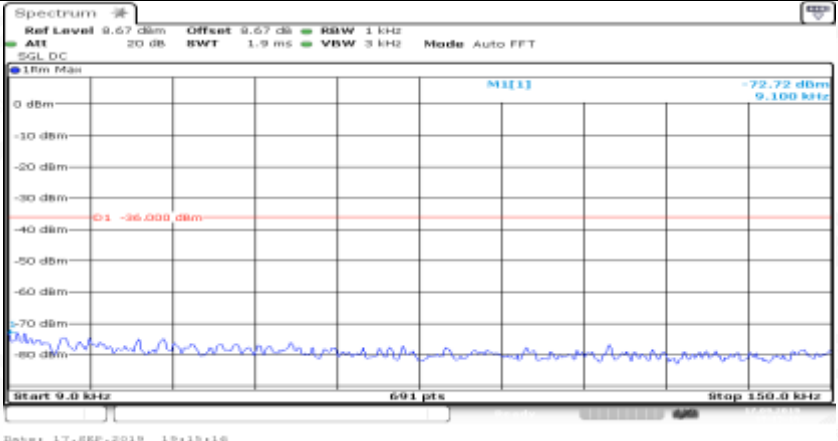
General	
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General	

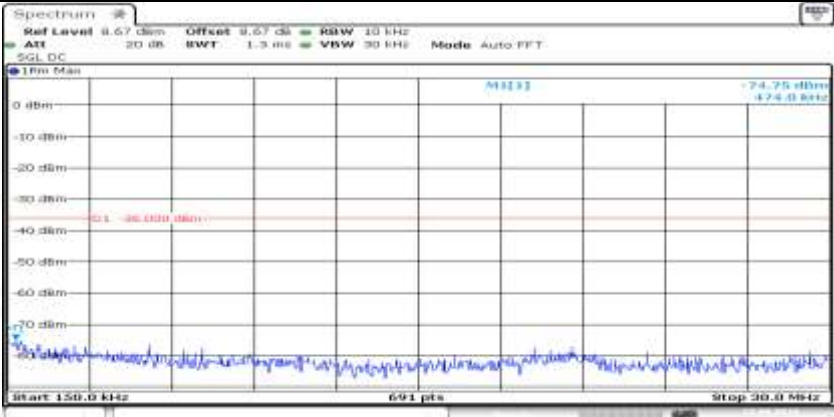
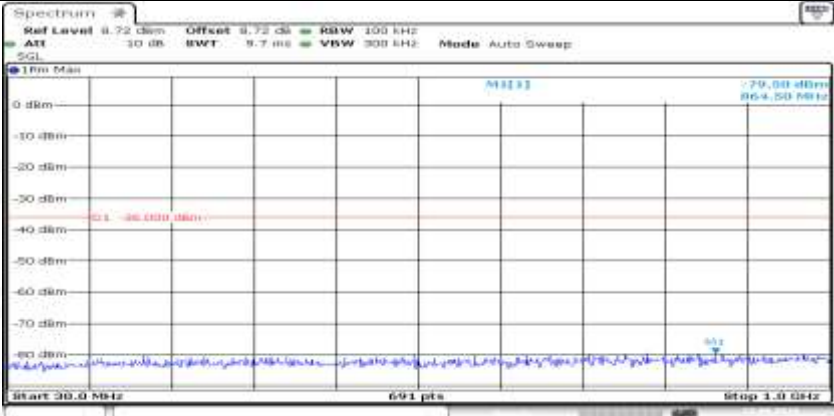
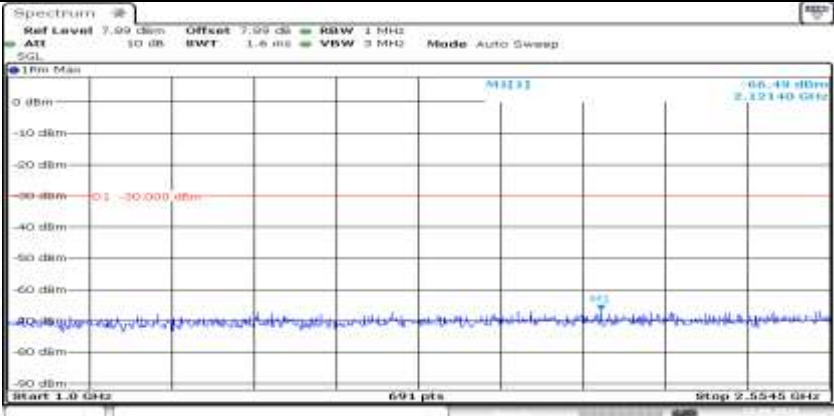


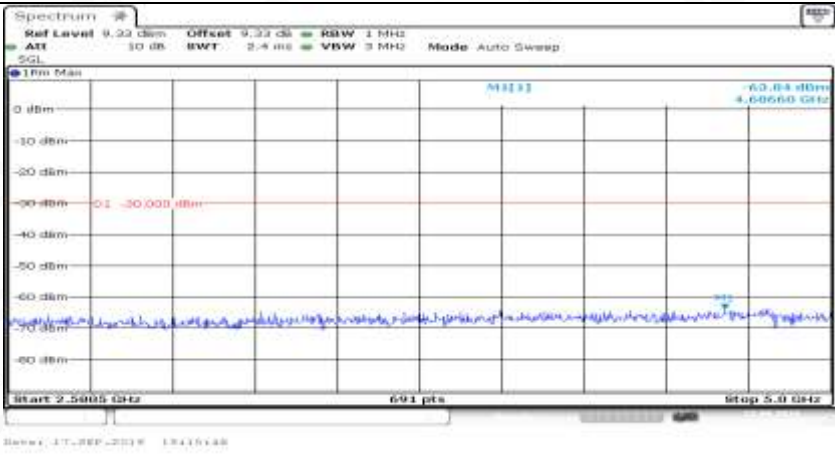
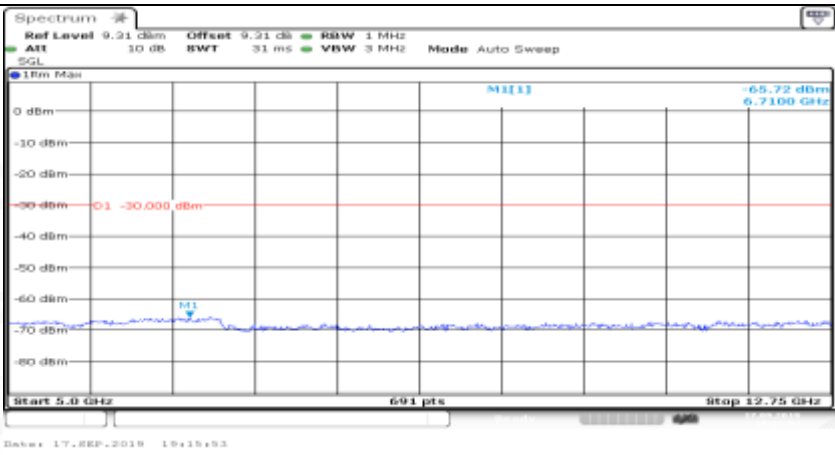
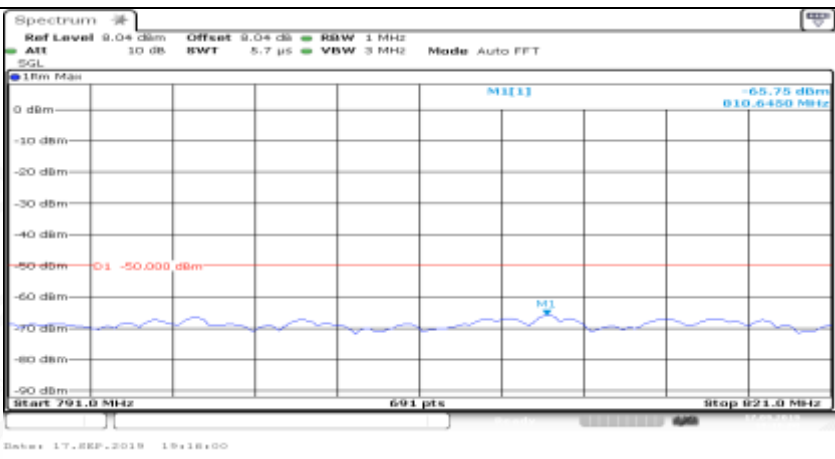
Co-existence	
Co-existence	
Co-existence	

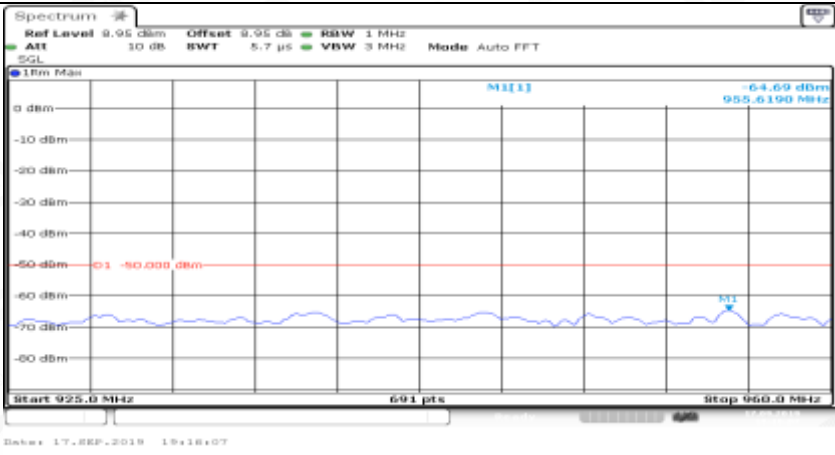

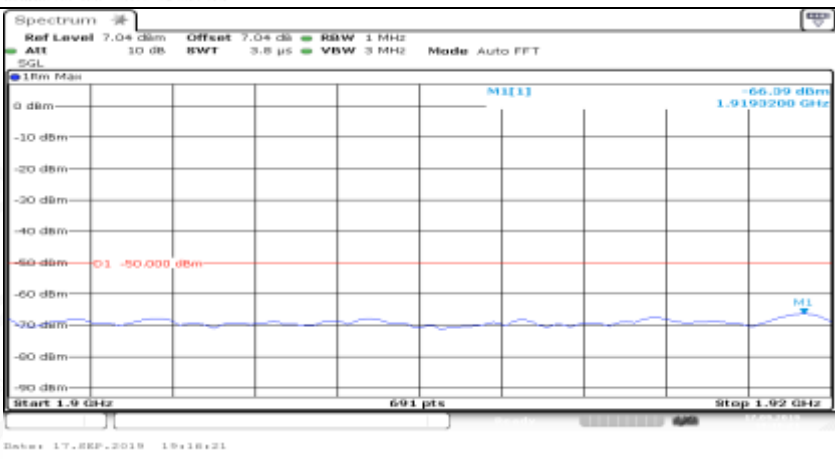
Co-existence	
Co-existence	
Co-existence	

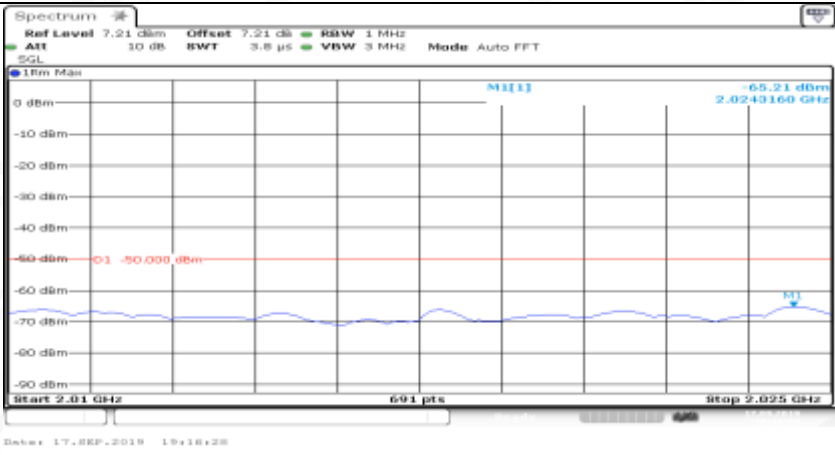
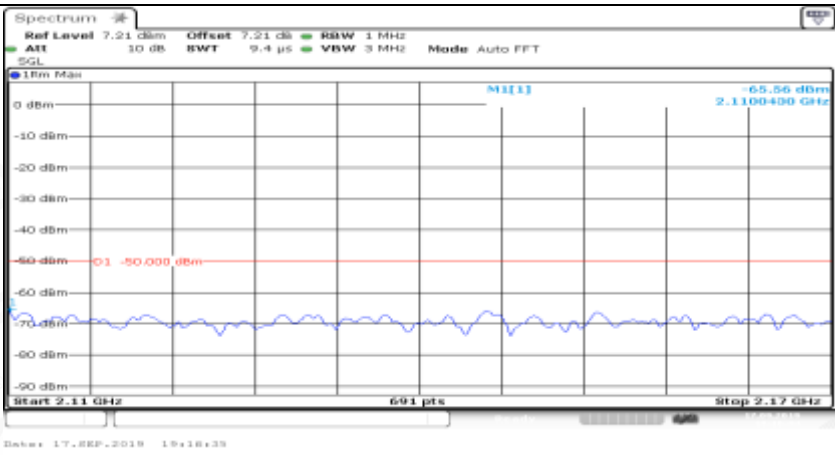
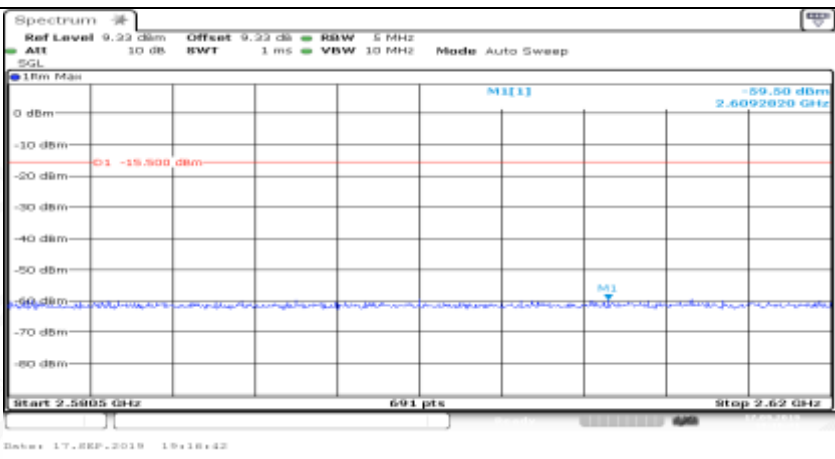
Co-existence	
Co-existence	
Additional	NA

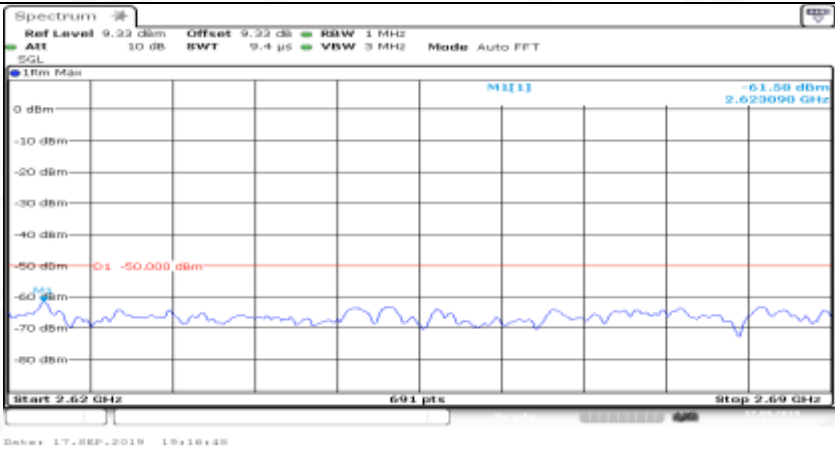
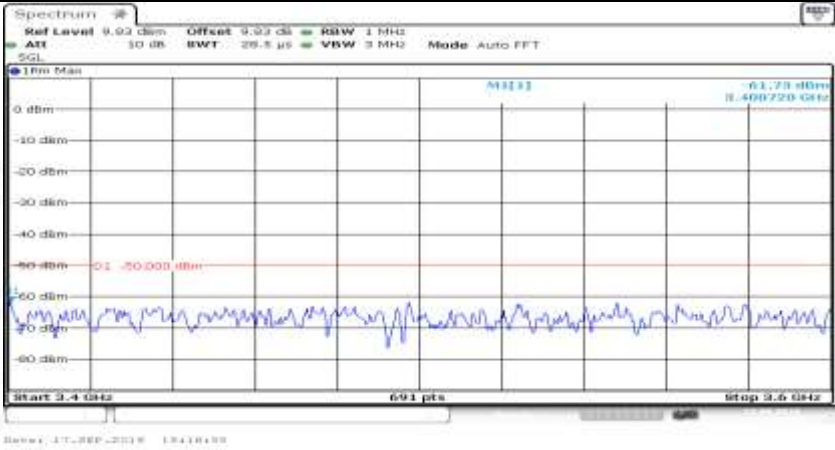
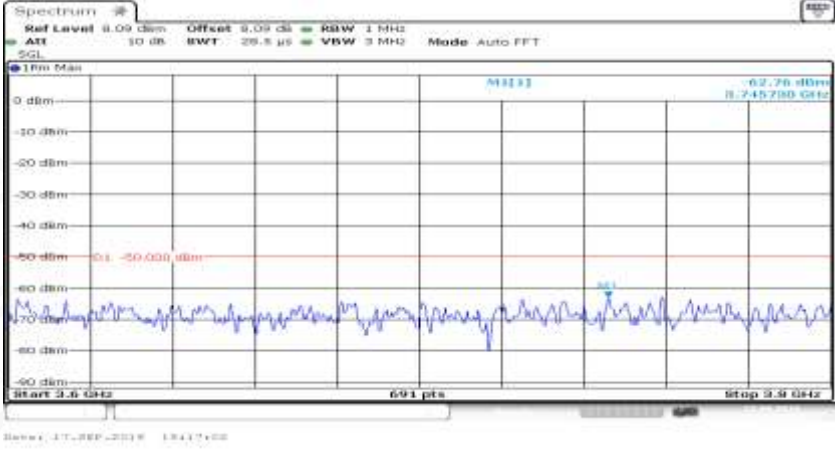
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	

General	 <p>Spectrum plot showing a signal at -74.75 dBm. The plot has a frequency range from 150.0 kHz to 30.0 MHz. The y-axis represents power in dBm from 0 to -70. The x-axis represents frequency in kHz. The signal is a narrow band around 150.0 kHz.</p>
General	 <p>Spectrum plot showing a signal at -79.00 dBm. The plot has a frequency range from 30.0 MHz to 1.0 GHz. The y-axis represents power in dBm from 0 to -70. The x-axis represents frequency in MHz. The signal is a narrow band around 30.0 MHz.</p>
General	 <p>Spectrum plot showing a signal at -66.49 dBm. The plot has a frequency range from 1.0 GHz to 2.5545 GHz. The y-axis represents power in dBm from 0 to -70. The x-axis represents frequency in GHz. The signal is a narrow band around 1.0 GHz.</p>

General	
General	
Co-existence	

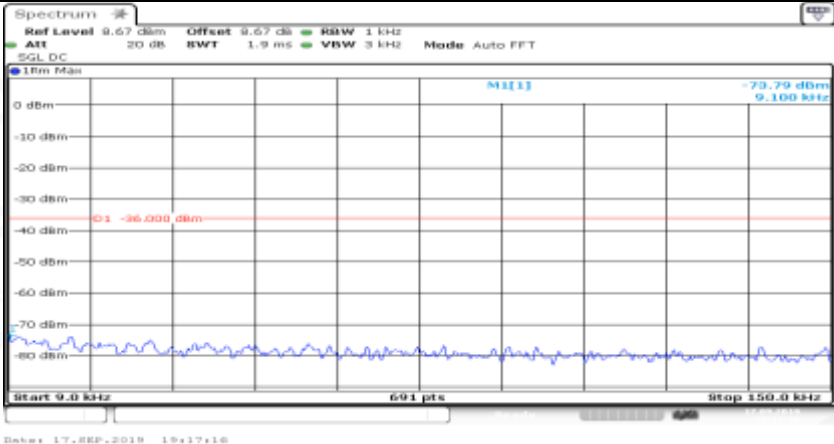
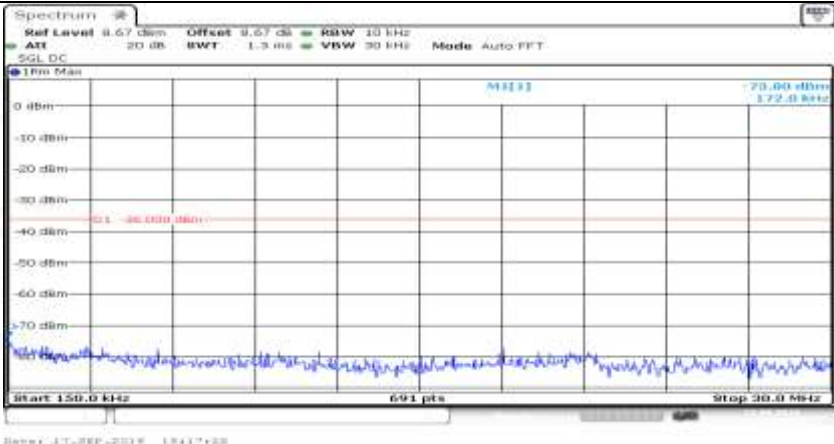
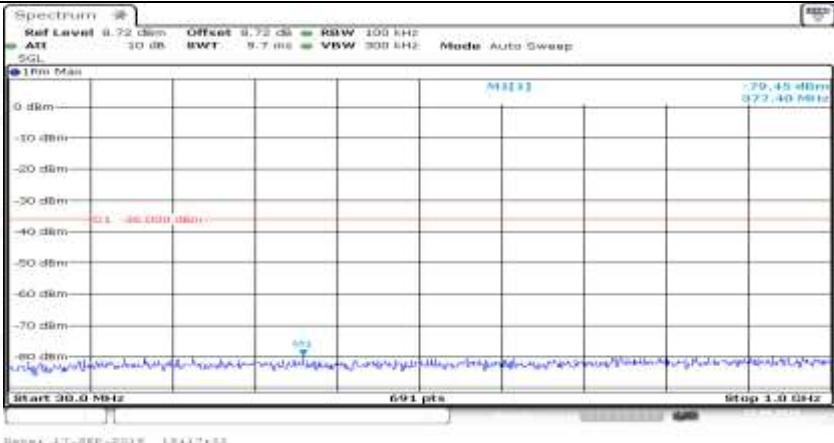
Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (20 MHz)

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

General	
General	
General	



Attestation of Global Compliance

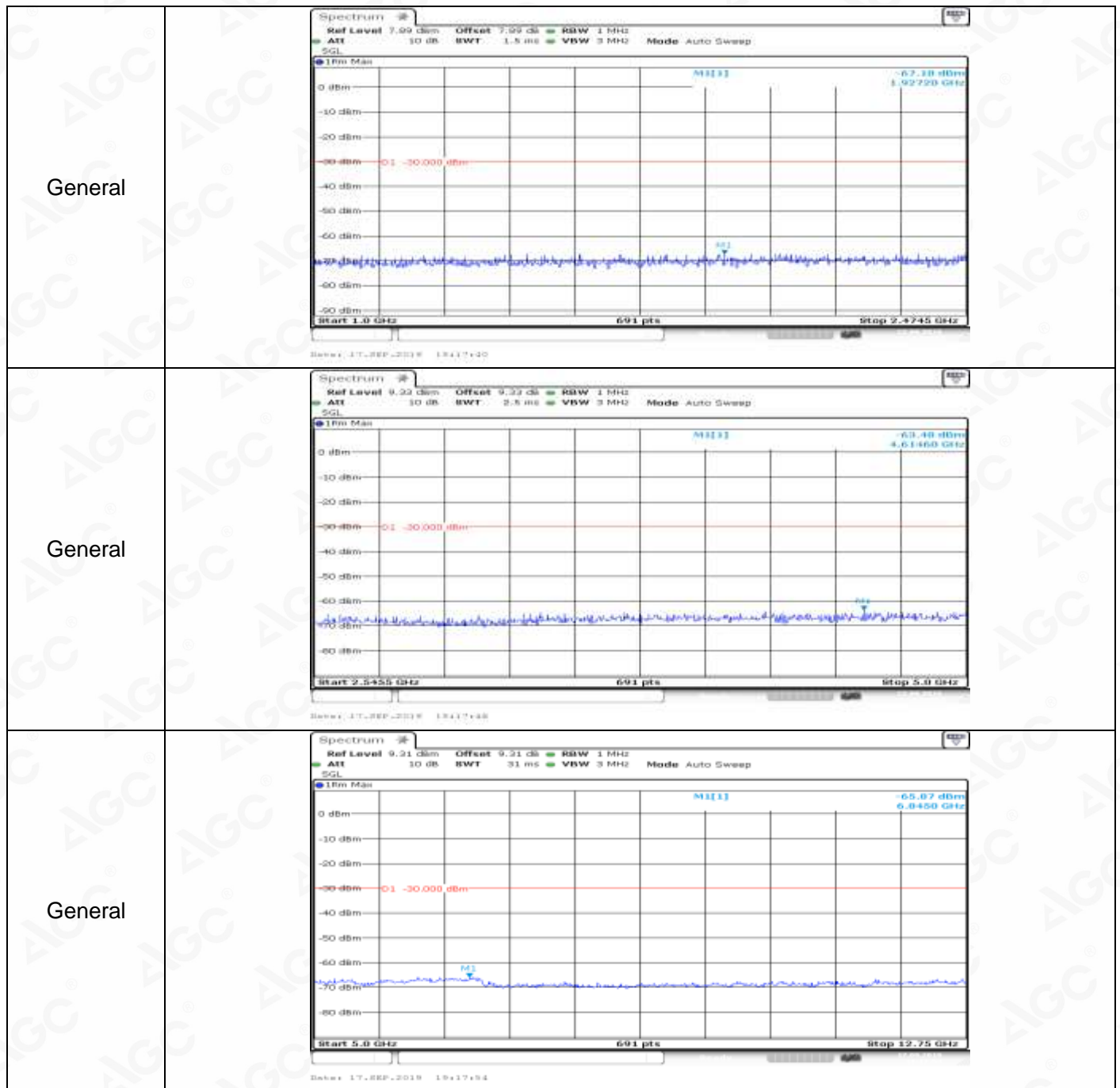
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

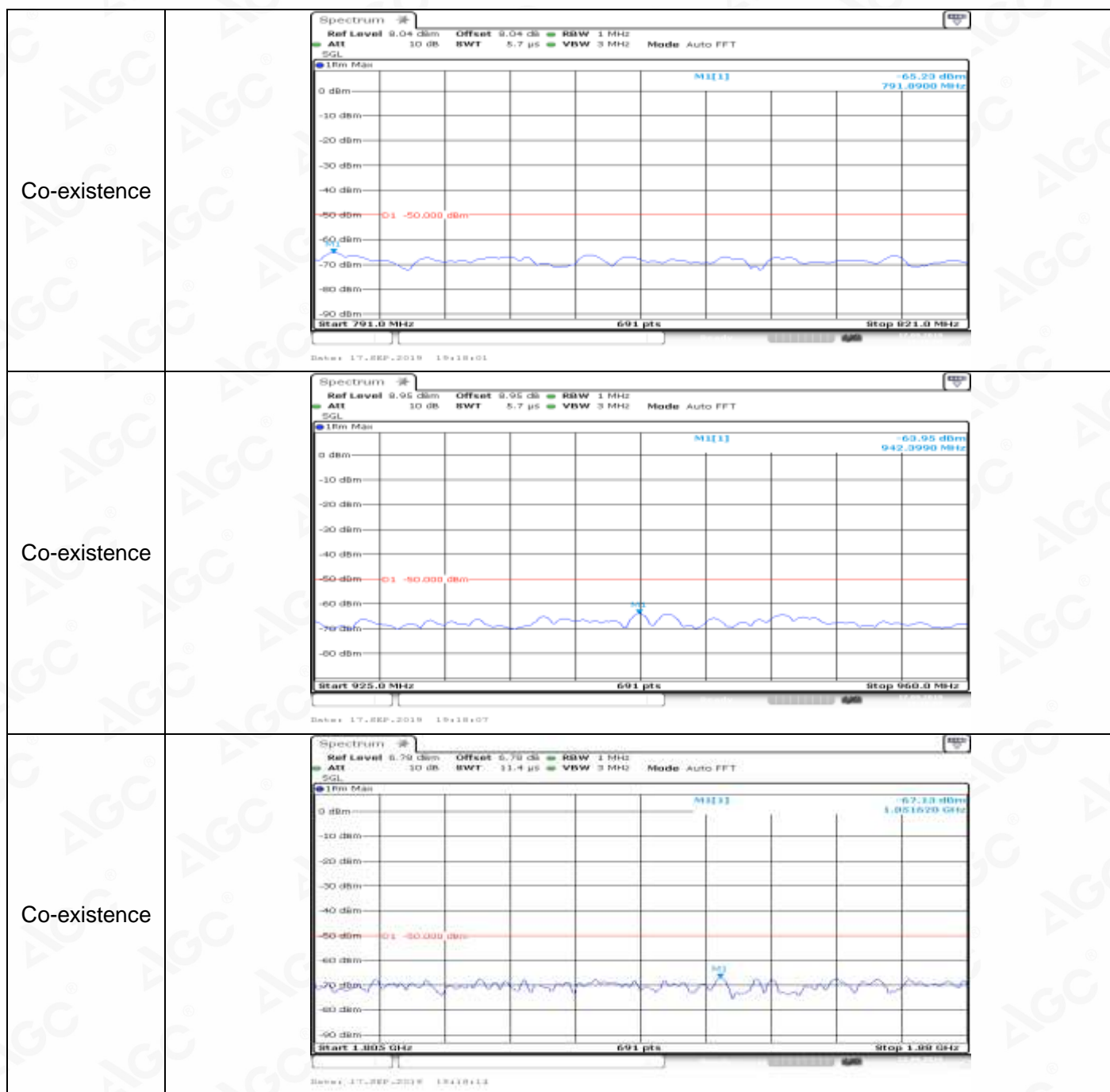
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

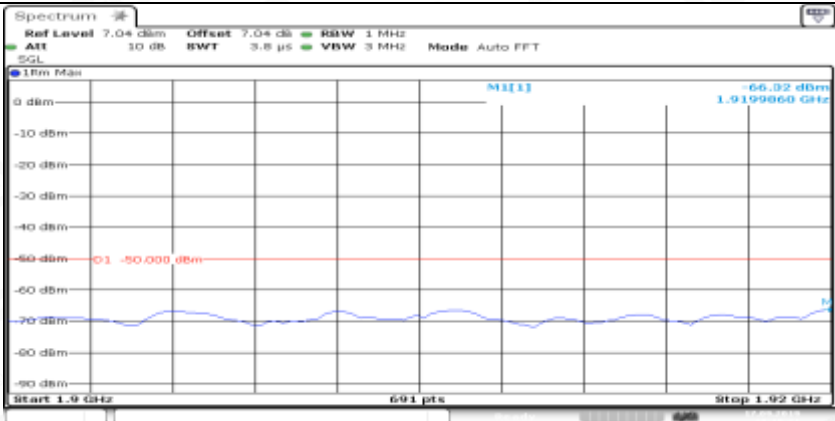
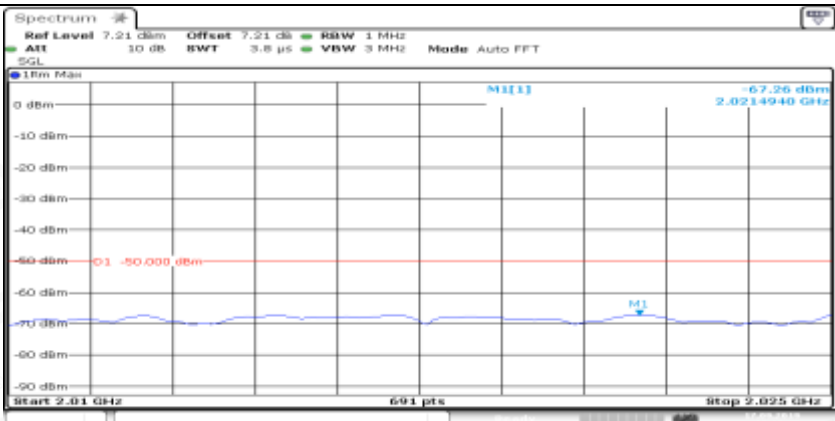
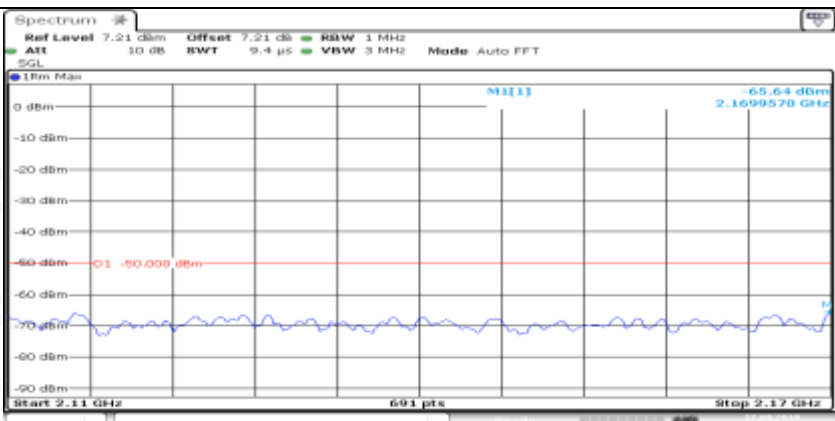
Tel: +86-755 2523 4088

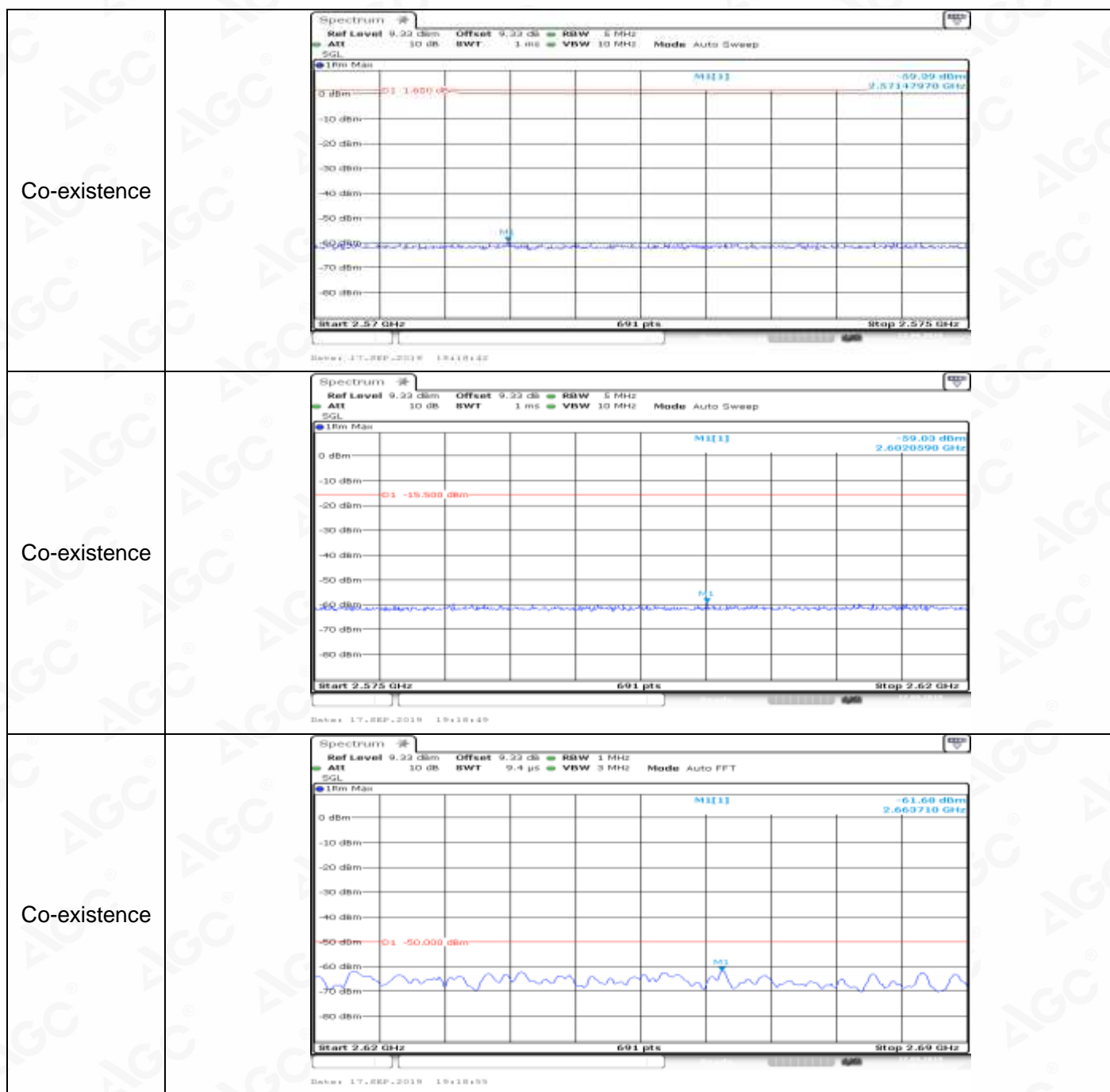
E-mail: agc@agc-cert.com

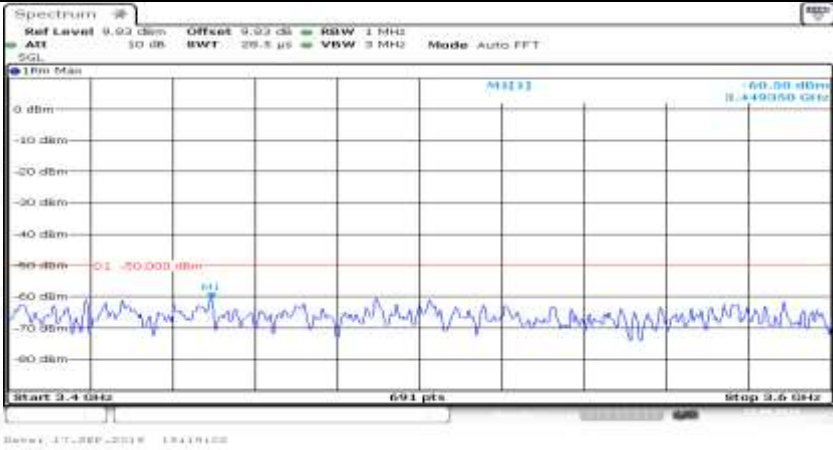
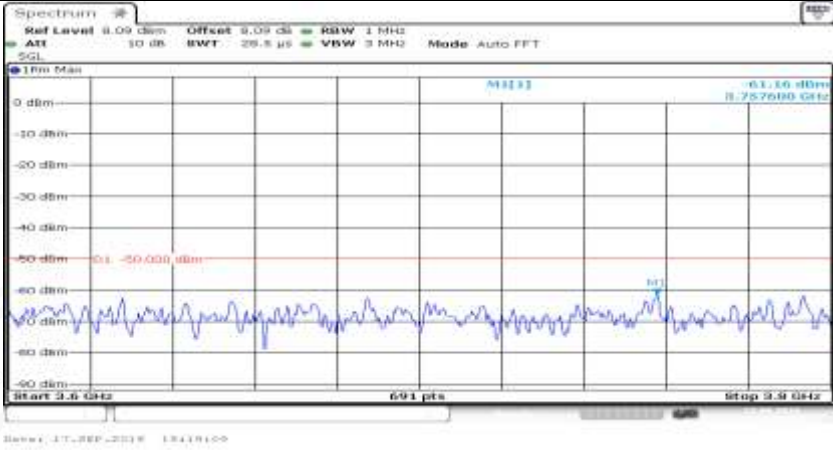
Service Hotline: 400 089 2118

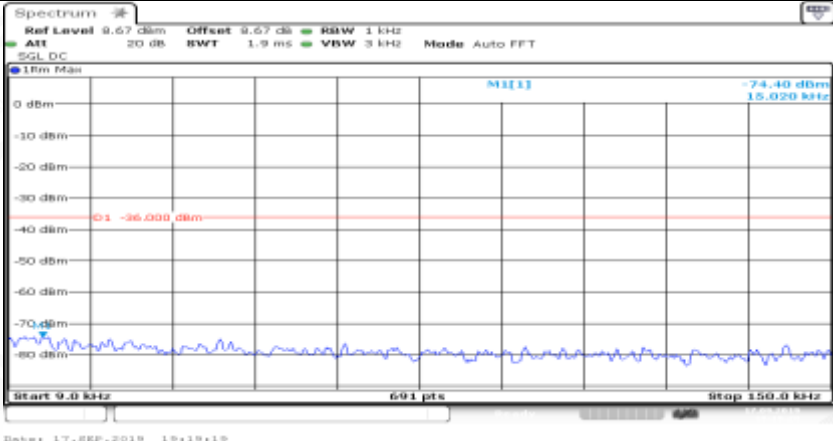


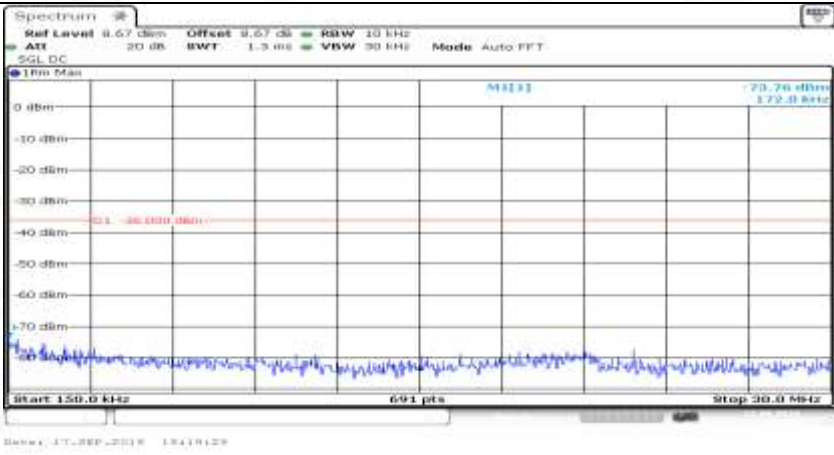
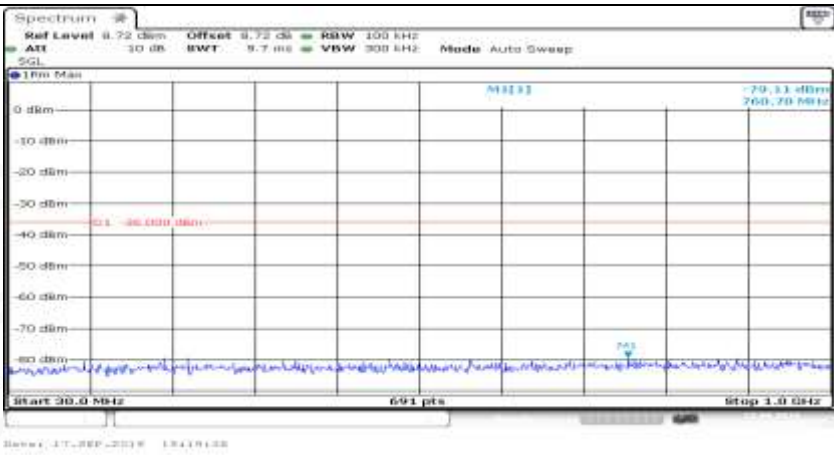
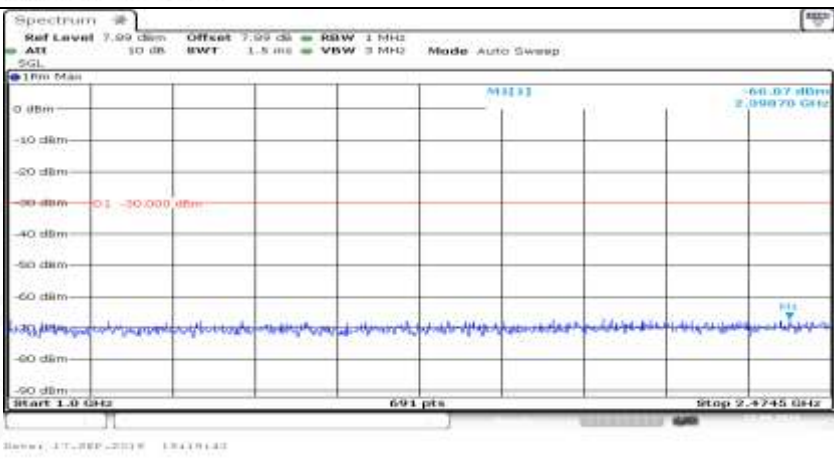


Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz ATT 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -66.92 dBm 1.9199860 GHz</p> <p>Start 1.9 GHz Stop 1.92 GHz</p> <p>691 pts</p> <p>Date: 17-SEP-2019 19:18:21</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz ATT 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -67.26 dBm 2.0214940 GHz</p> <p>Start 2.01 GHz Stop 2.025 GHz</p> <p>691 pts</p> <p>Date: 17-SEP-2019 19:18:28</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz ATT 10 dB SWT 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -65.64 dBm 2.1699570 GHz</p> <p>Start 2.11 GHz Stop 2.17 GHz</p> <p>691 pts</p> <p>Date: 17-SEP-2019 19:18:35</p>

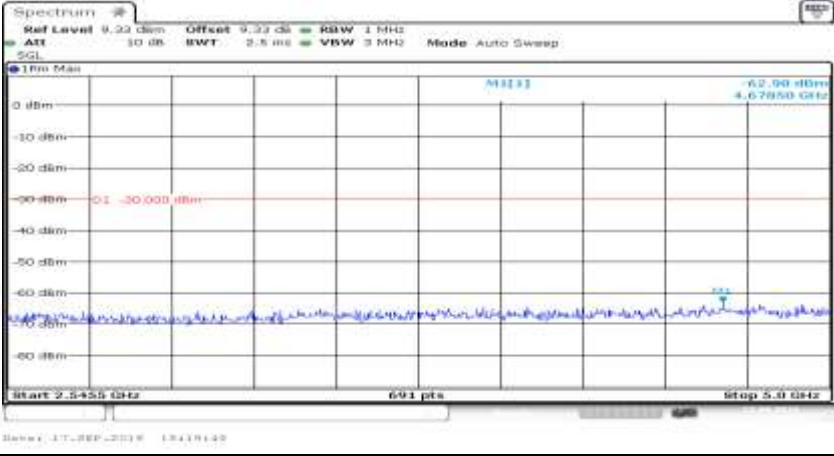
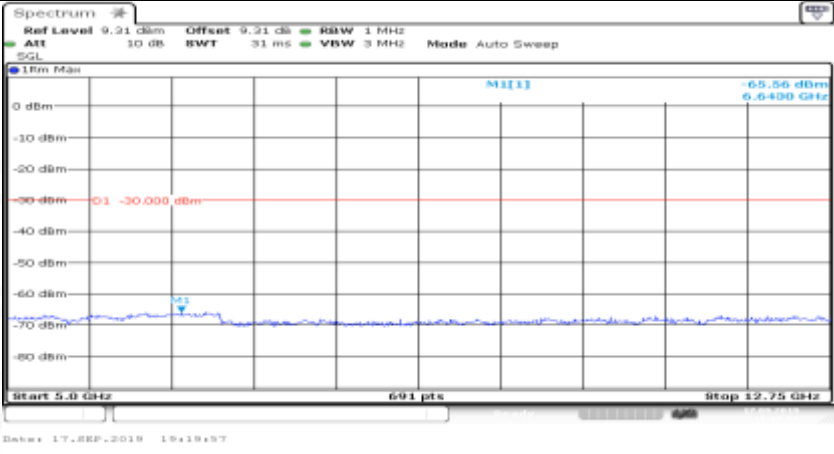
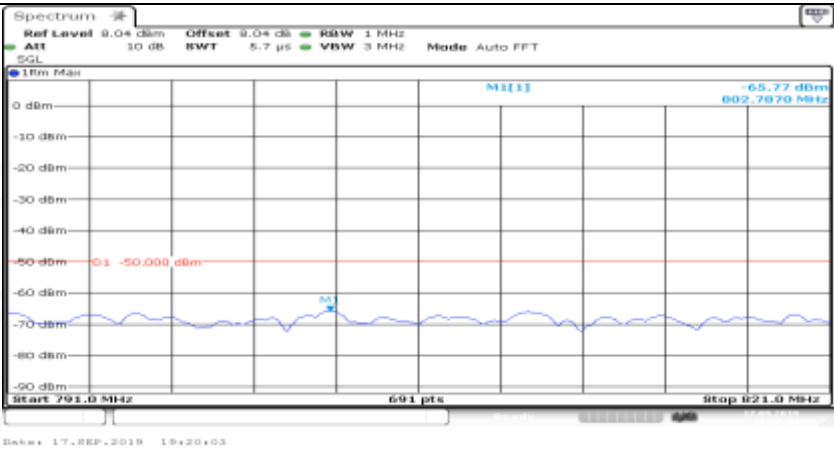


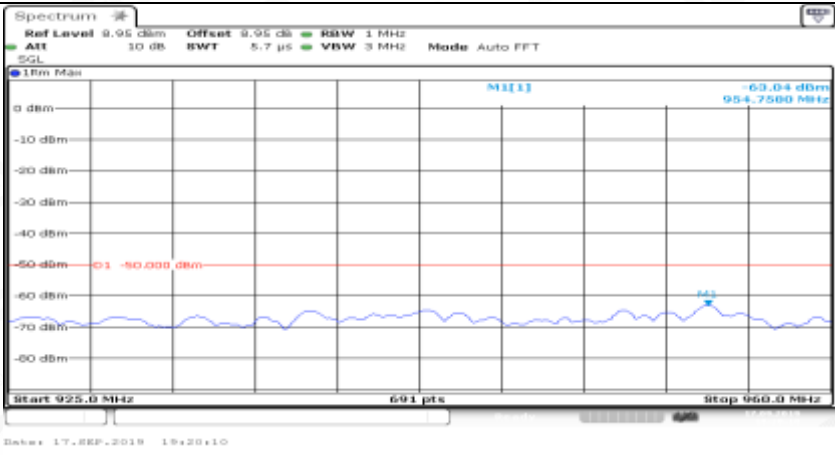

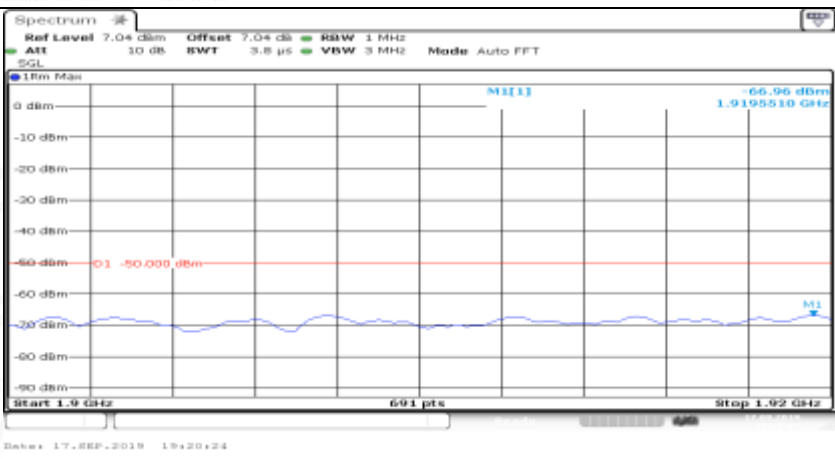
Co-existence	
Co-existence	
Additional	NA

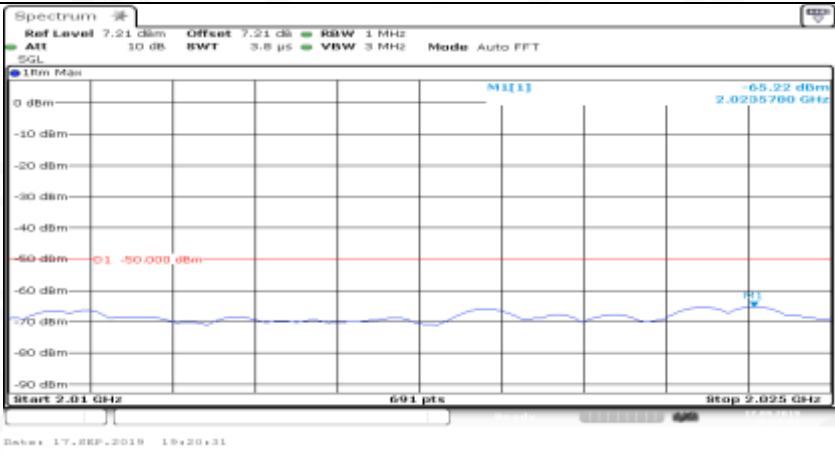

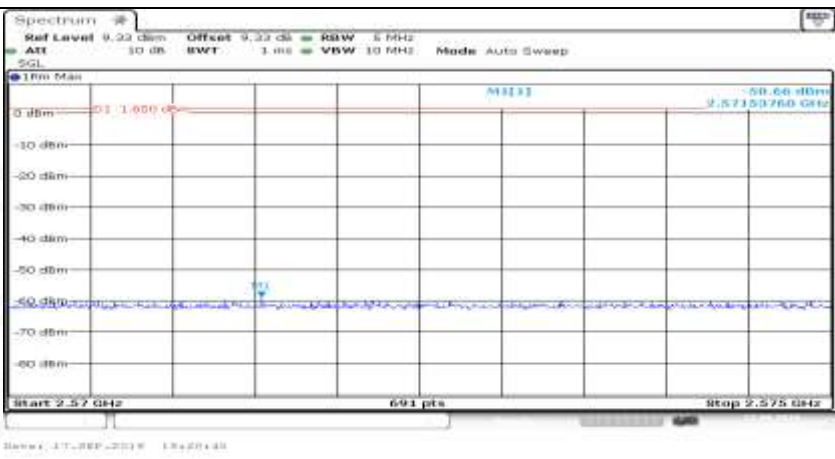
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	

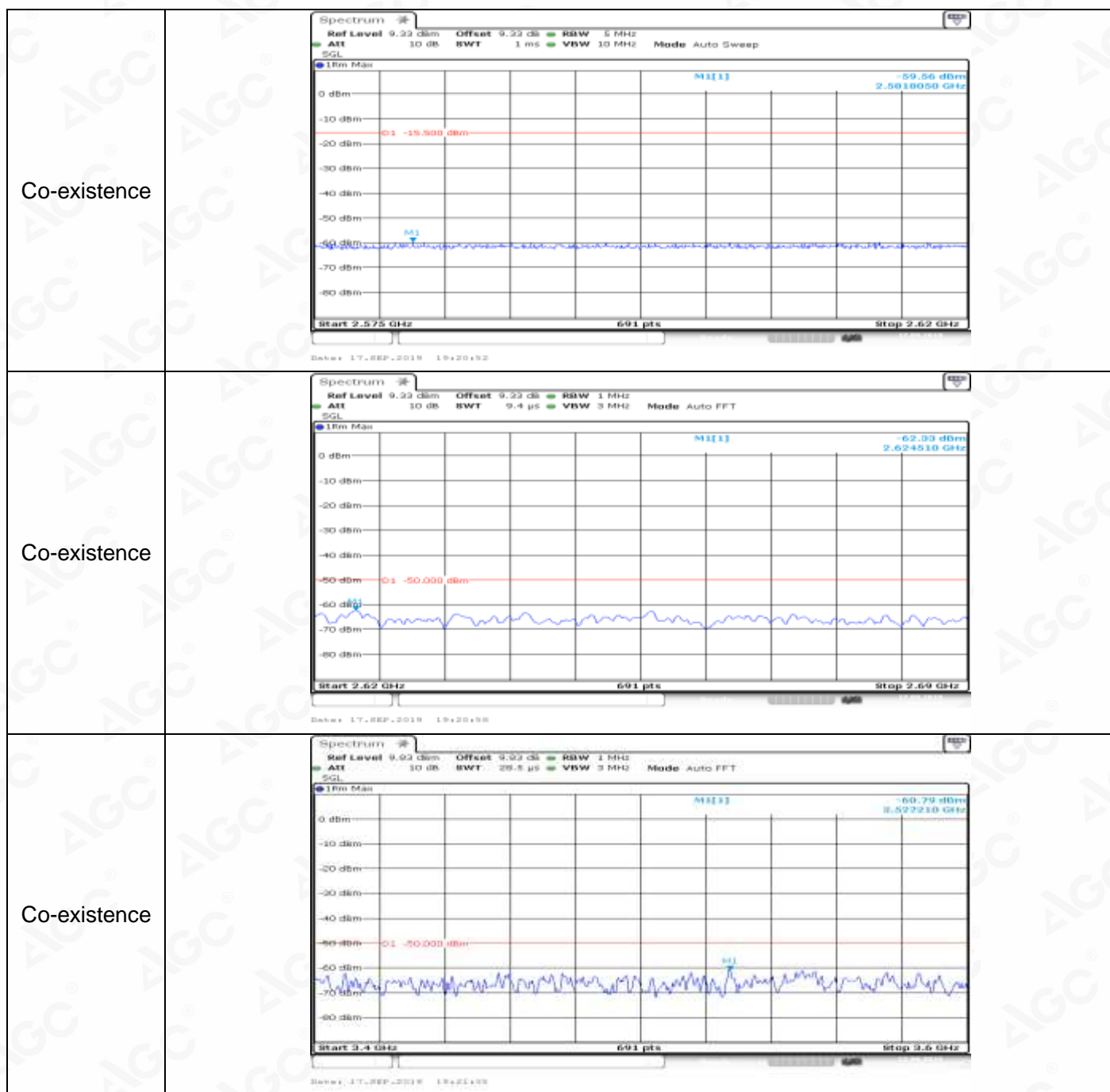
General	
General	
General	

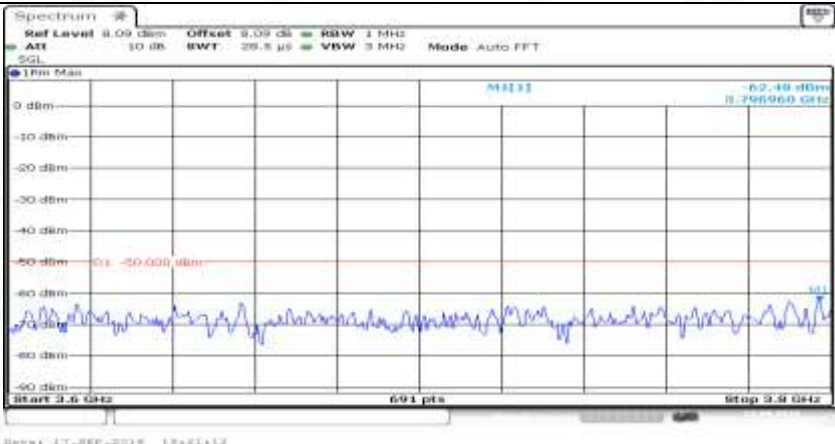


General	 <p>Spectrum plot showing a noise floor around -65 dBm. A red line indicates a limit at -30.000 dBm. The x-axis ranges from 2.5455 GHz to 5.0 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
General	 <p>Spectrum plot showing a noise floor around -65.56 dBm. A red line indicates a limit at -30.000 dBm. The x-axis ranges from 5.0 GHz to 12.75 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
Co-existence	 <p>Spectrum plot showing a noise floor around -65.77 dBm. A red line indicates a limit at -50.000 dBm. The x-axis ranges from 791.0 MHz to 823.0 MHz. The y-axis ranges from 0 dBm to -80 dBm.</p>

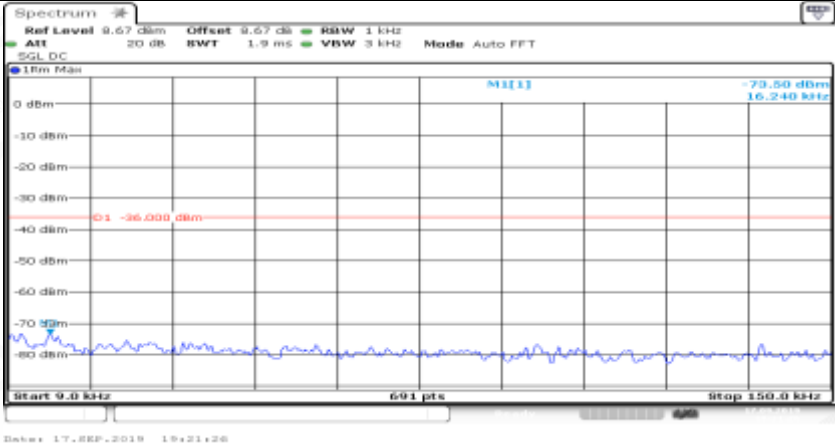
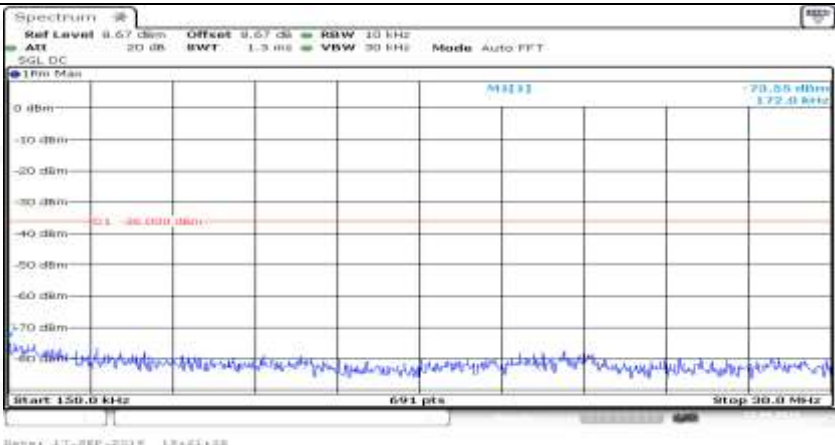
Co-existence	
Co-existence	
Co-existence	

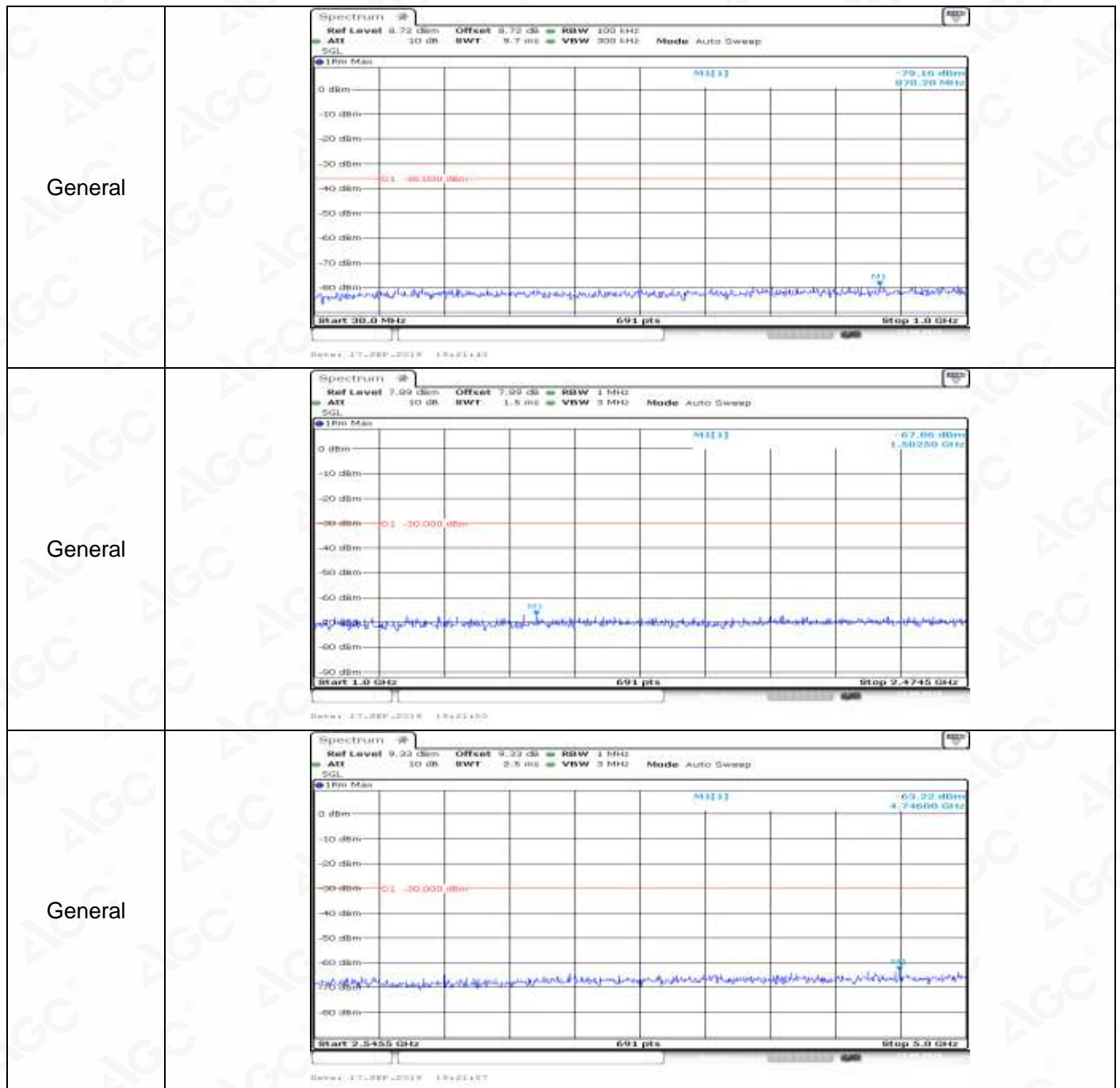
Co-existence	
Co-existence	
Co-existence	

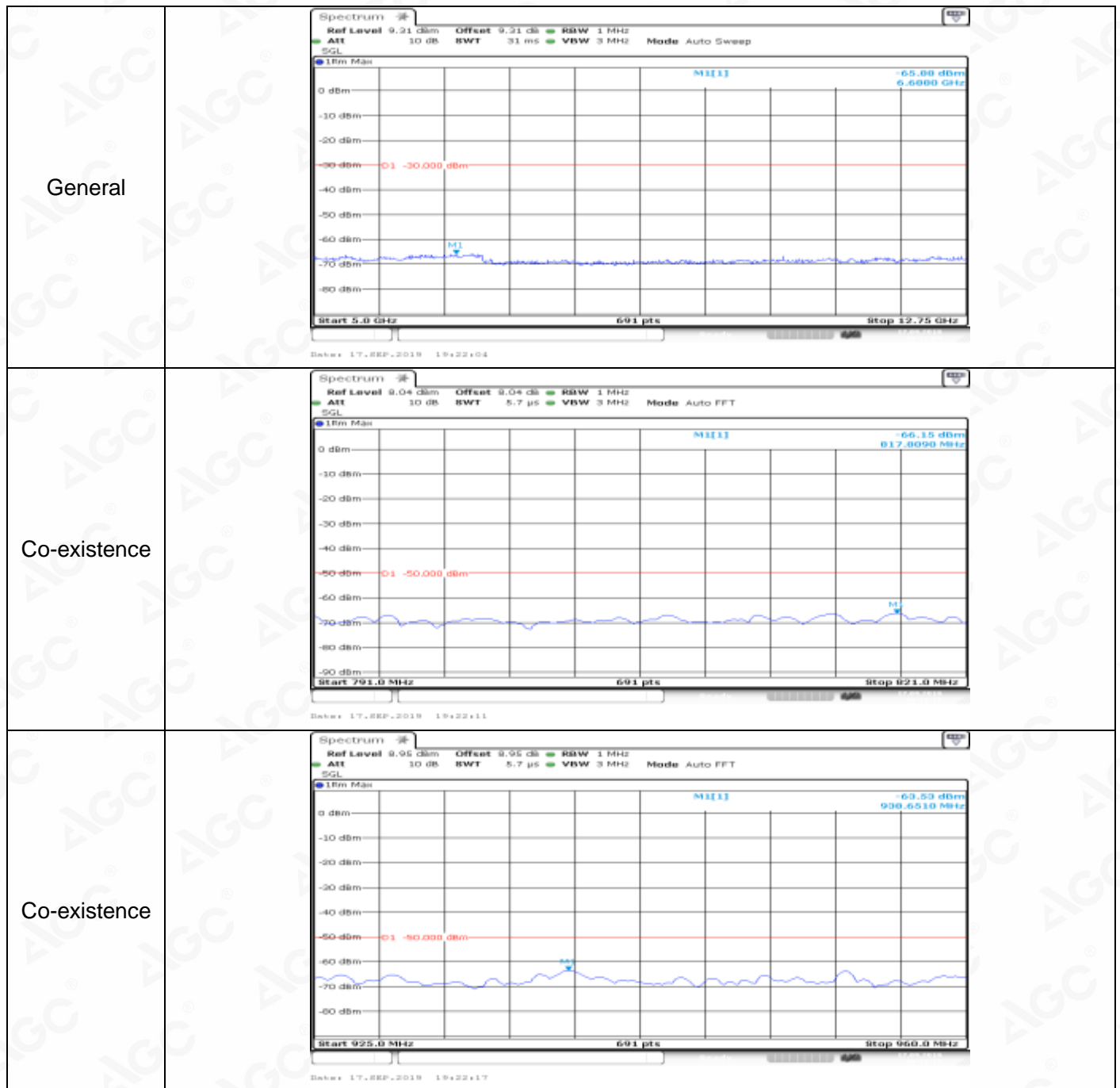



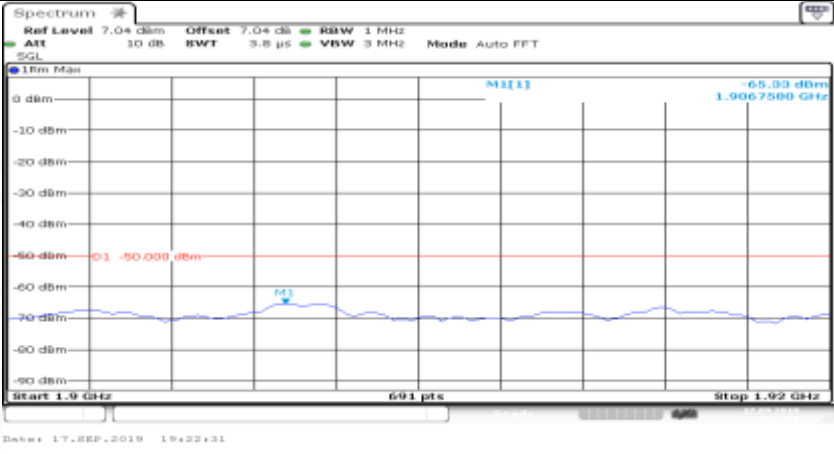
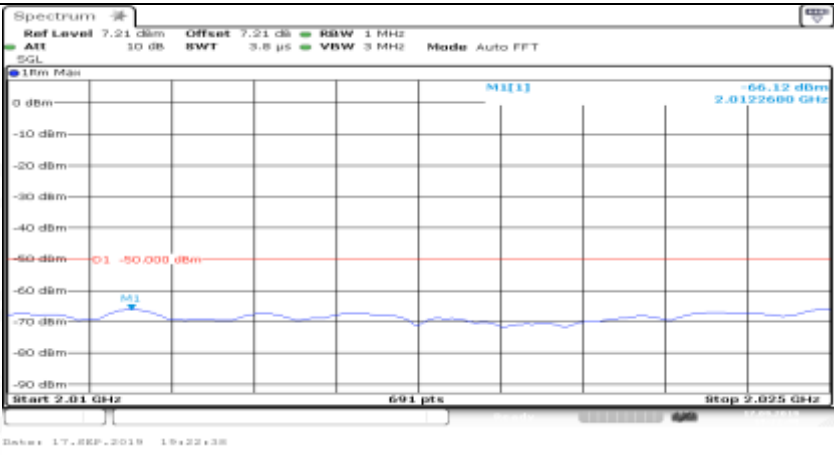
Co-existence	
Additional	NA

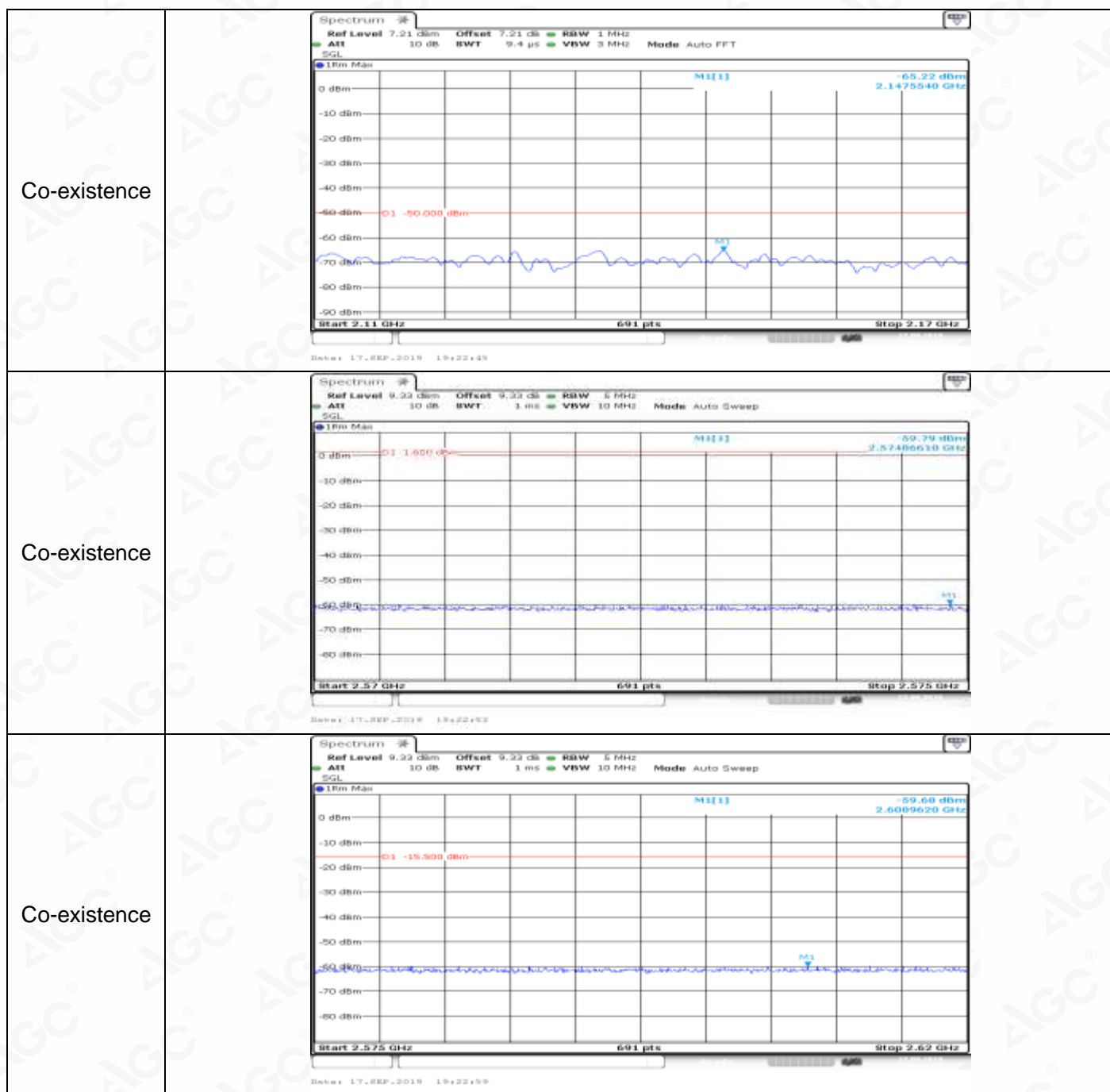
Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullIRB#0

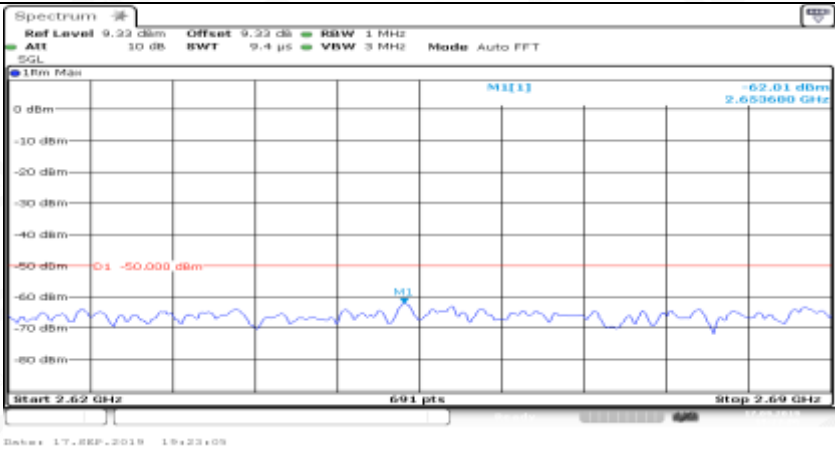
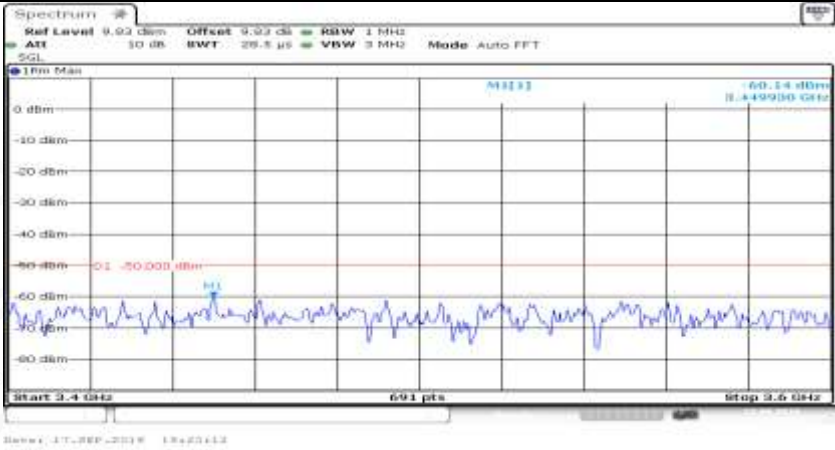
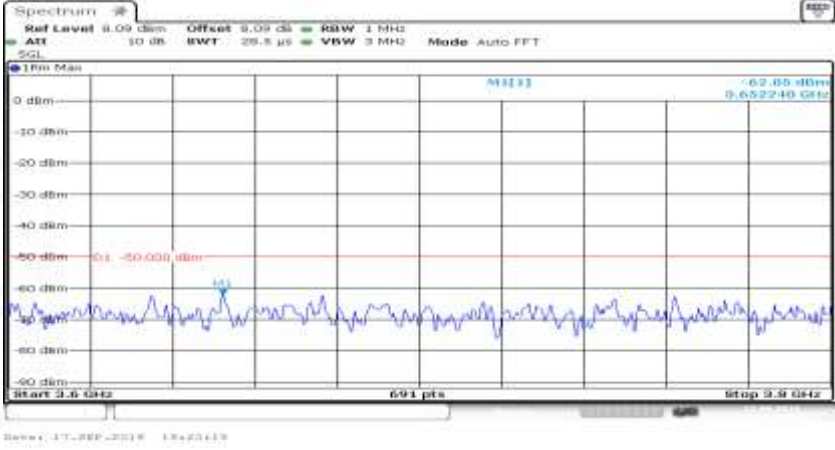
General	
General	

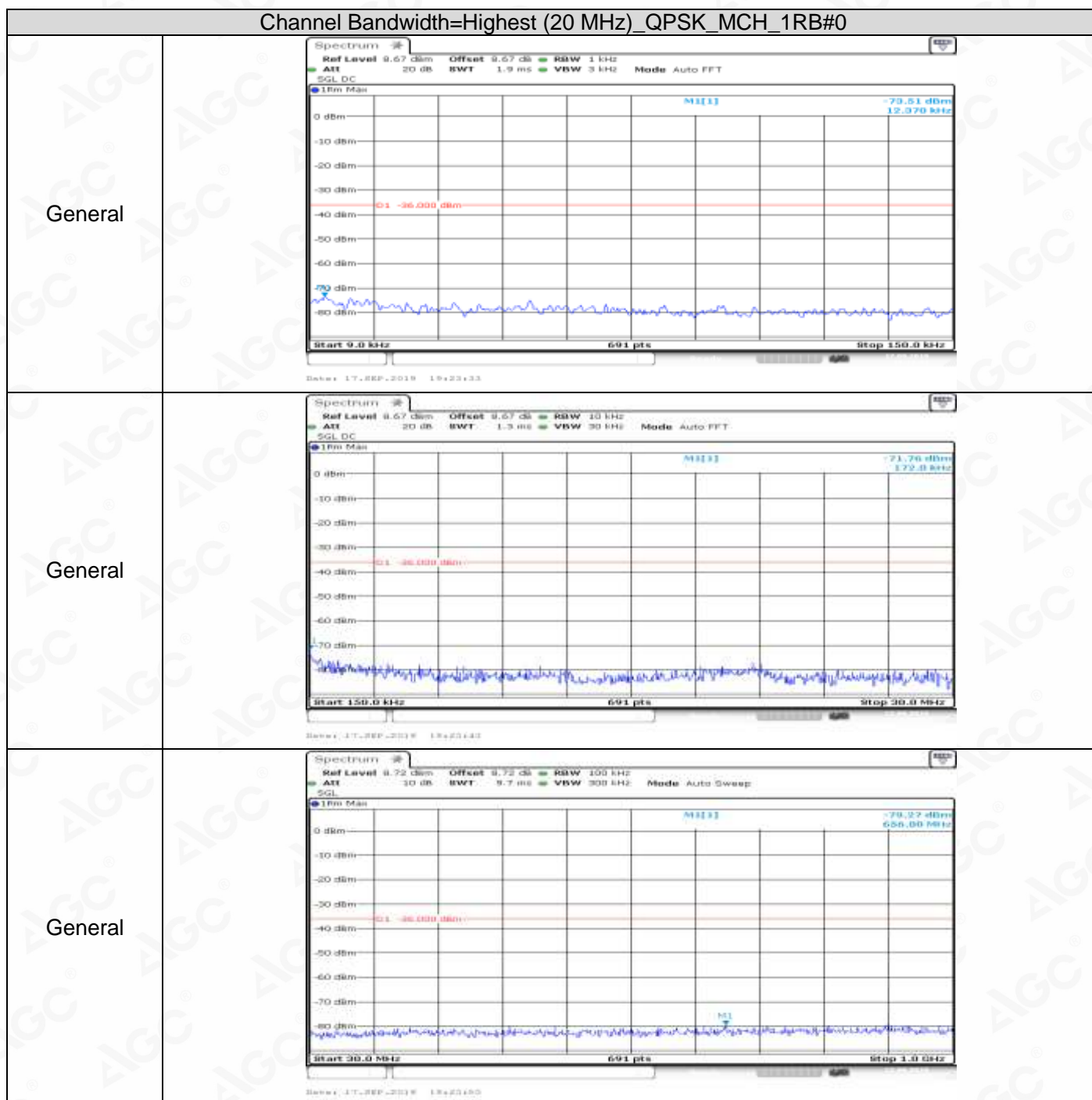


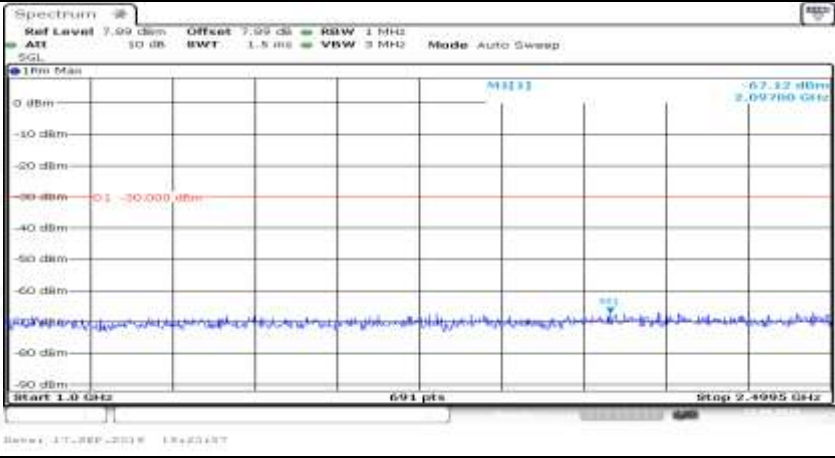
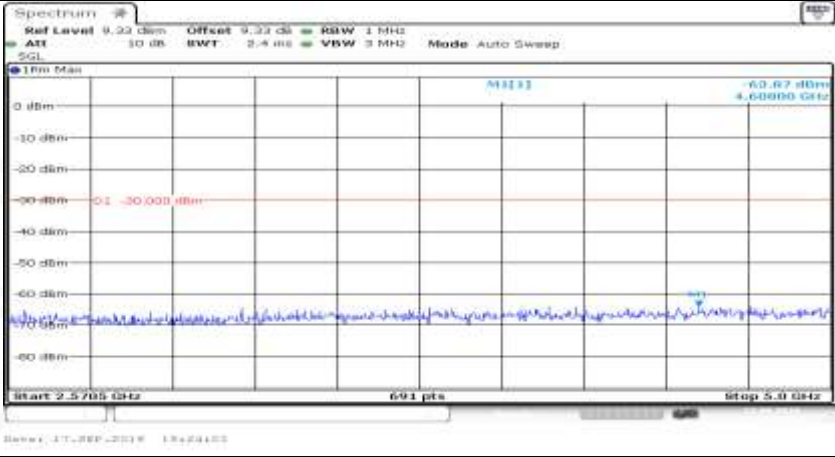
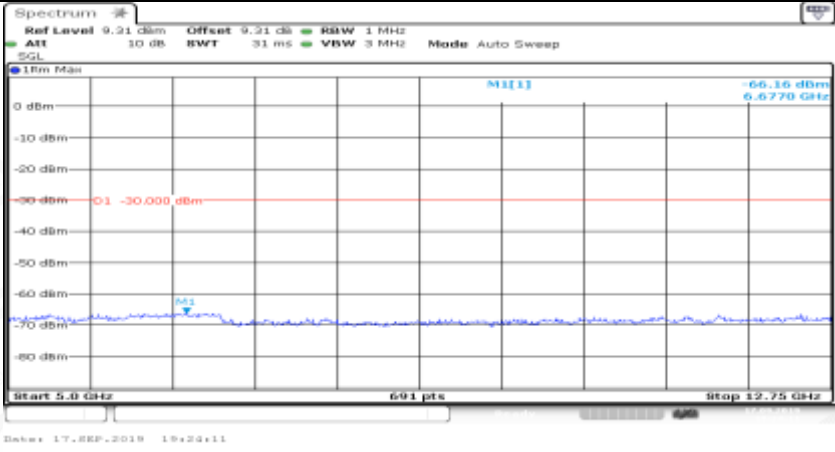


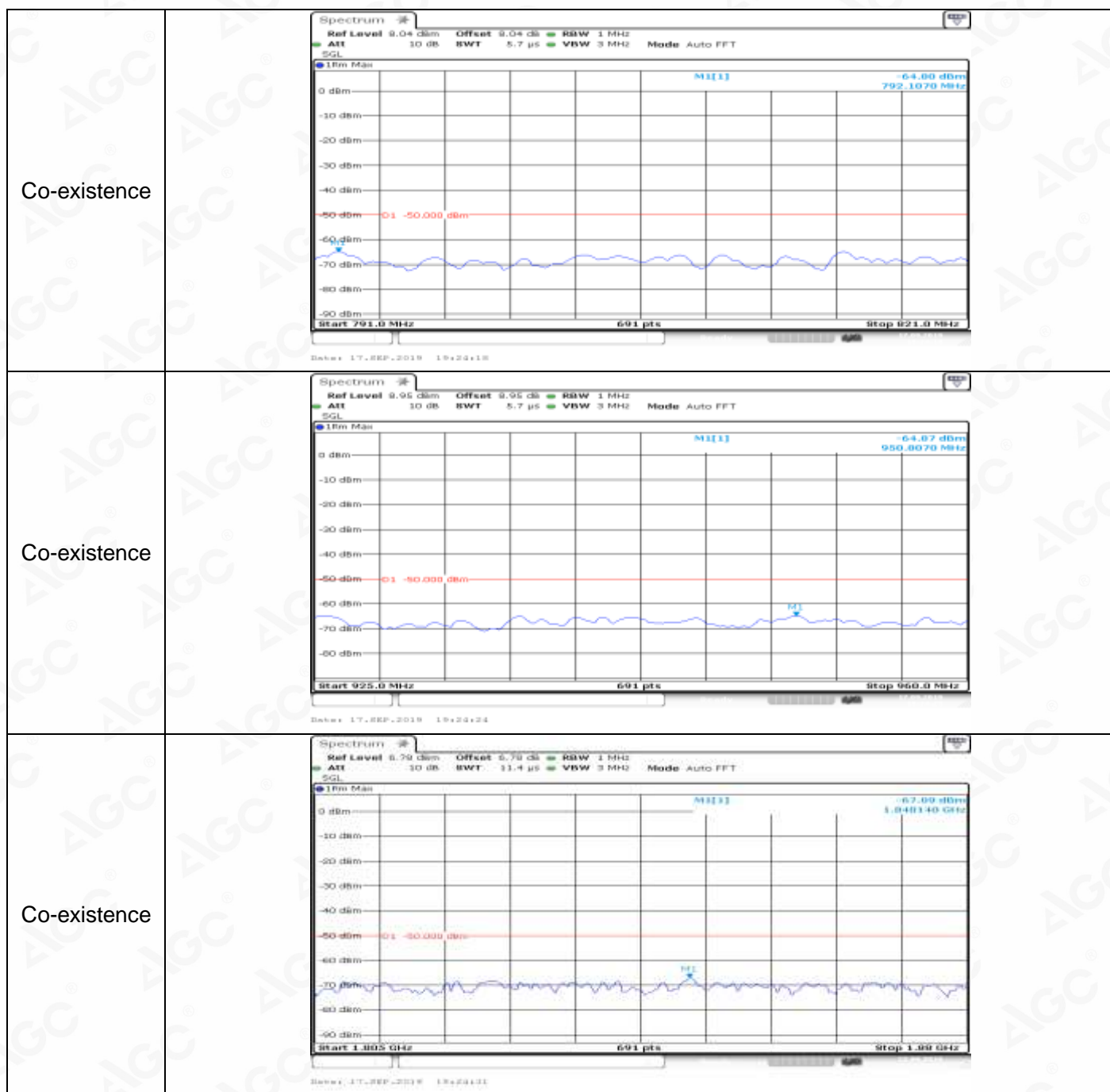
Co-existence	
Co-existence	
Co-existence	


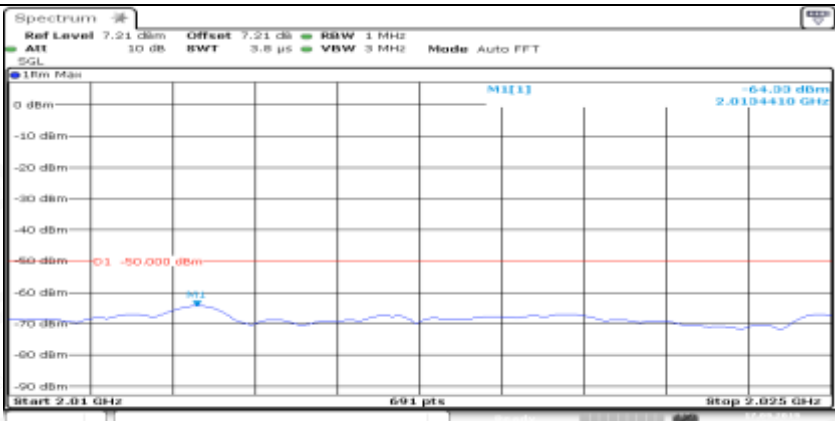
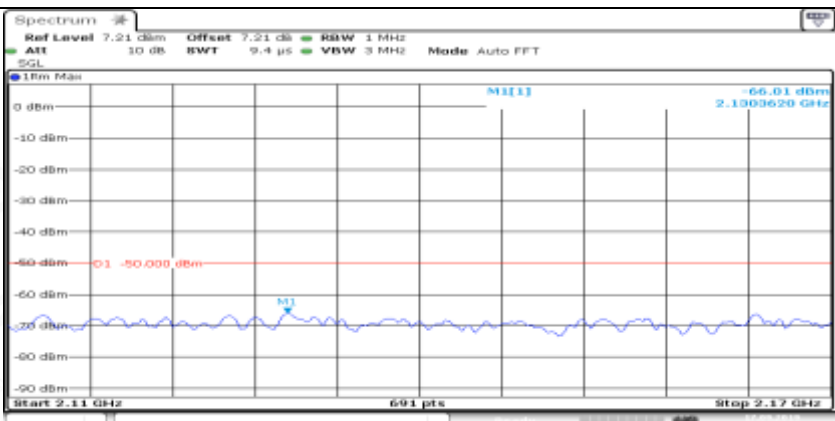


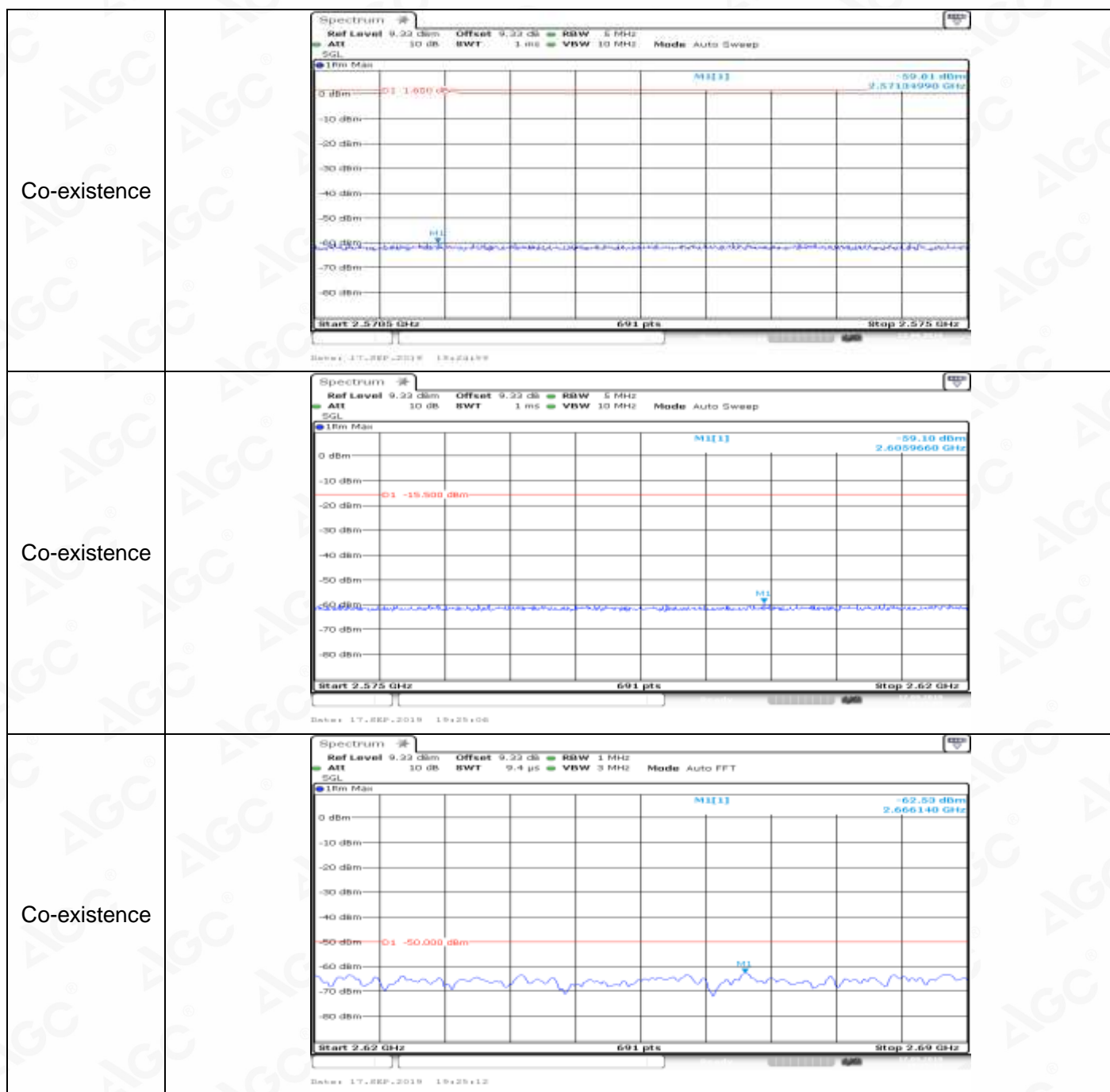
Co-existence	
Co-existence	
Co-existence	
Additional	NA

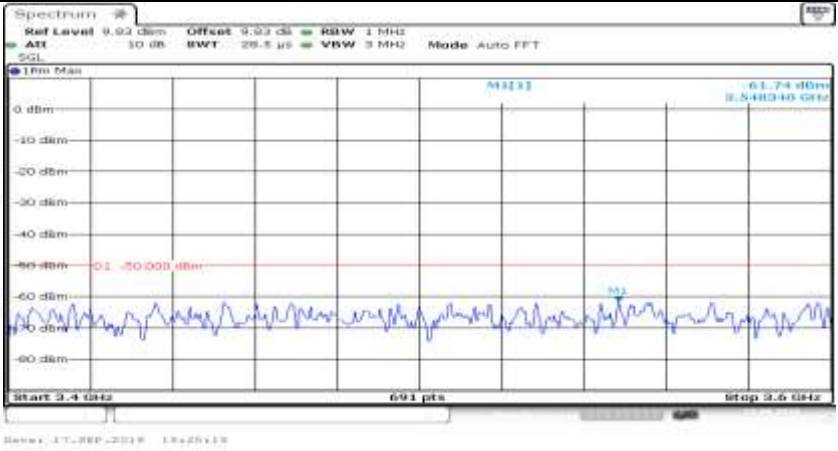
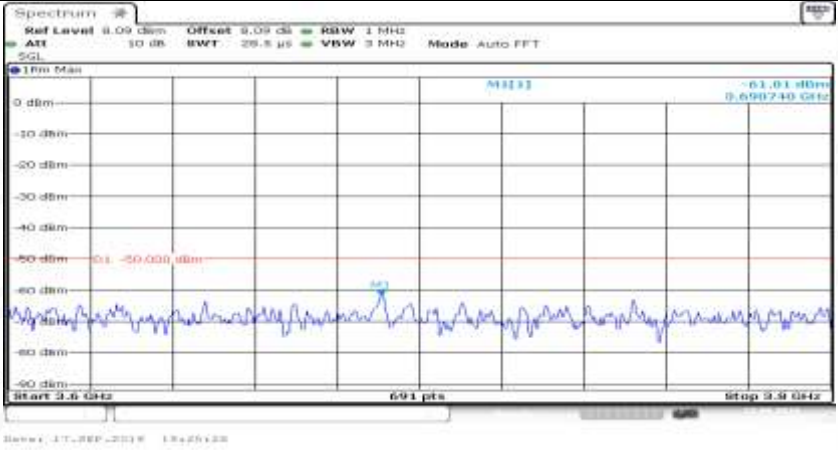


General	
General	
General	

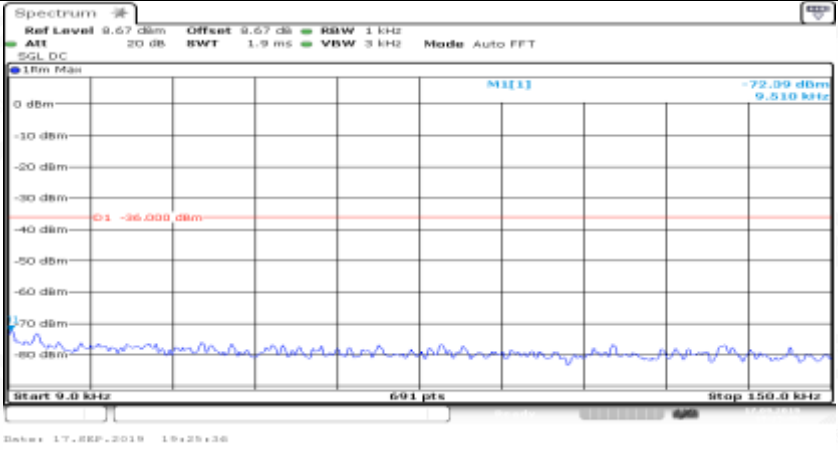


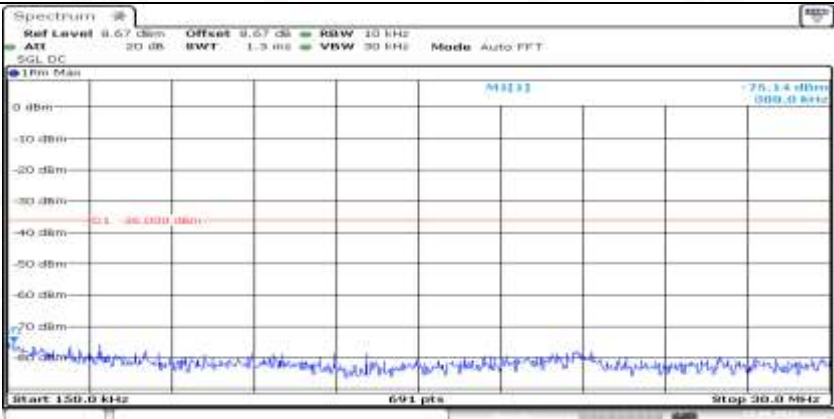
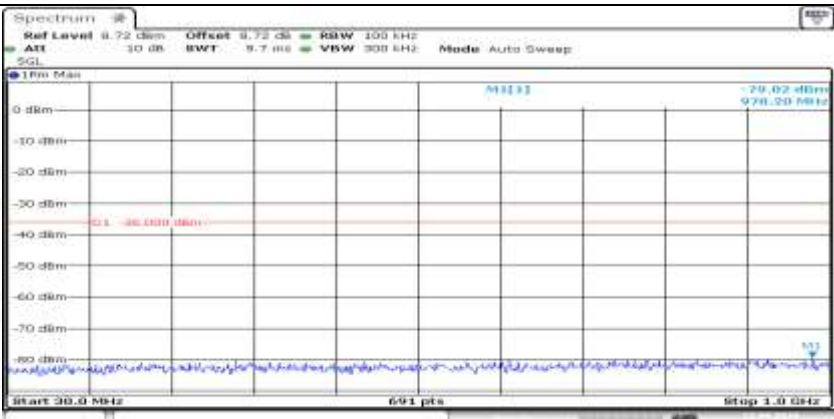
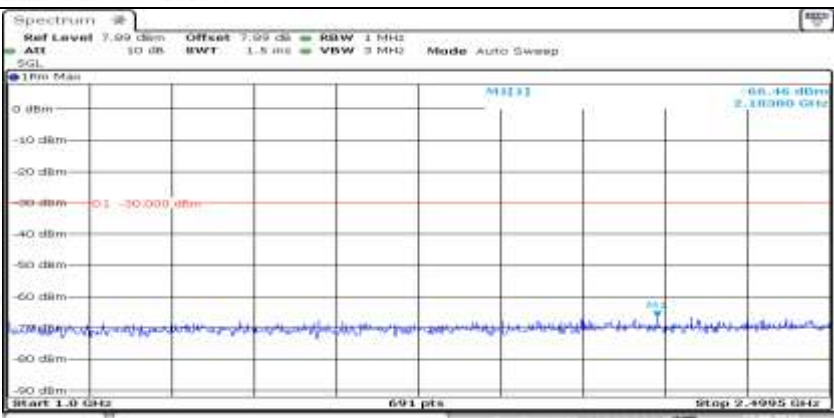
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>15m Max</p> <p>M1[1] -66.05 dBm 1.9153840 GHz</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 17 SEP 2019 19:24:38</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>15m Max</p> <p>M1[1] -64.93 dBm 2.0194410 GHz</p> <p>Start 2.0 GHz 691 pts Stop 2.025 GHz</p> <p>Date: 17 SEP 2019 19:24:39</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>15m Max</p> <p>M1[1] -66.01 dBm 2.1003620 GHz</p> <p>Start 2.1 GHz 691 pts Stop 2.17 GHz</p> <p>Date: 17 SEP 2019 19:24:52</p>

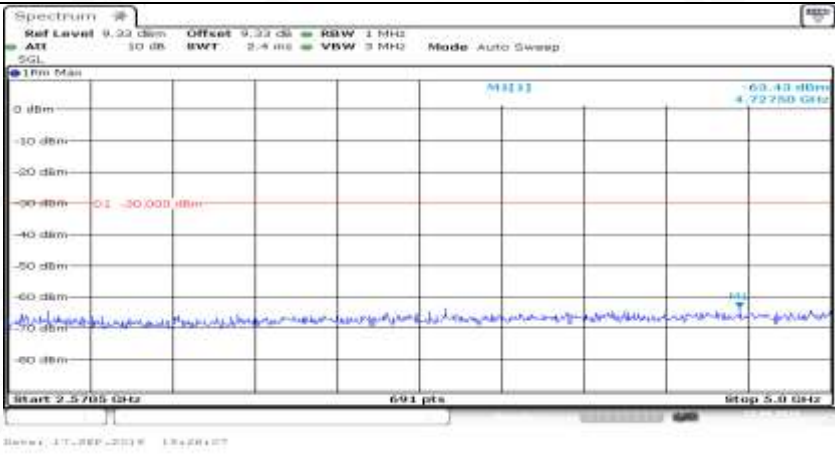
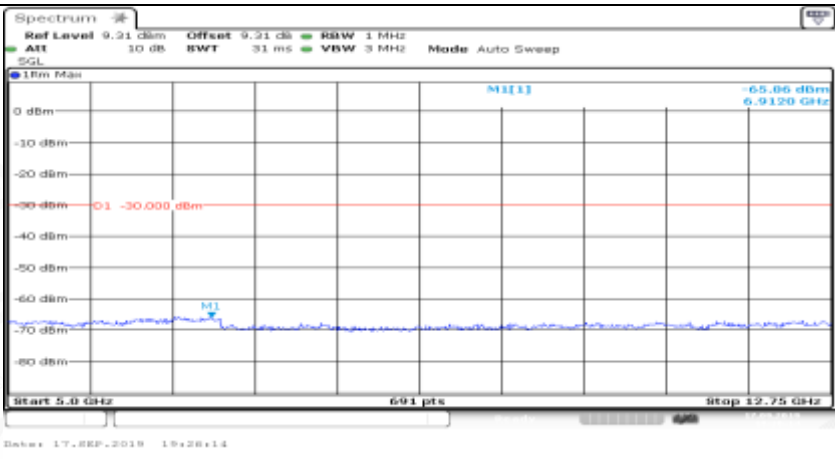
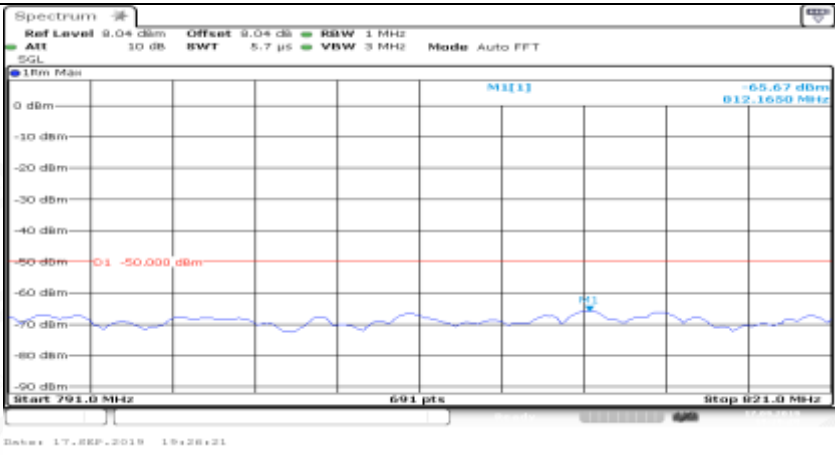


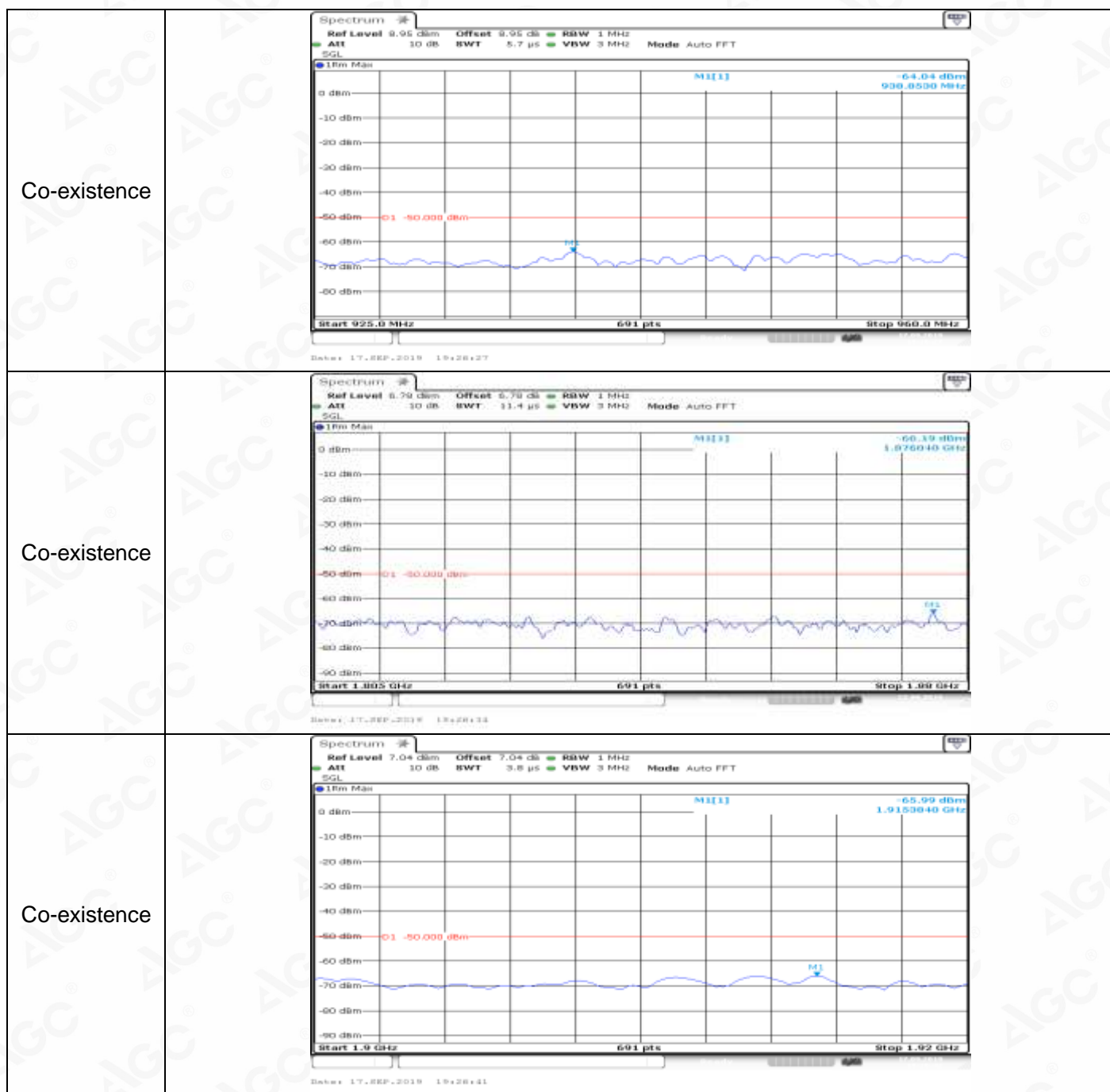
Co-existence	
Co-existence	
Additional	NA

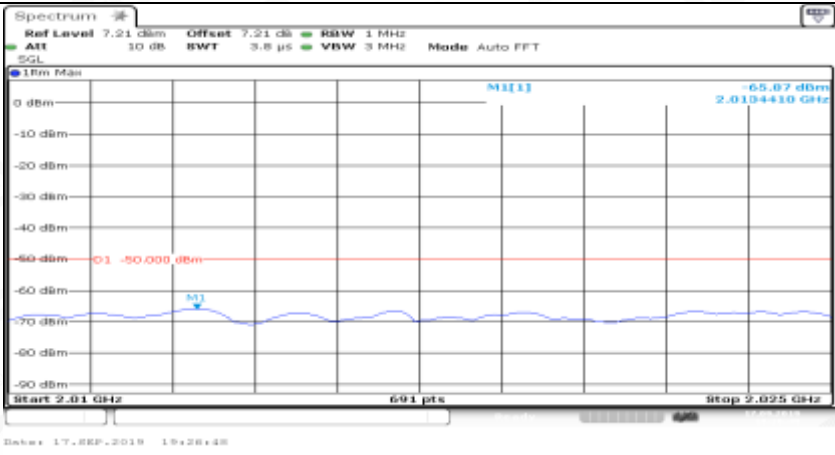

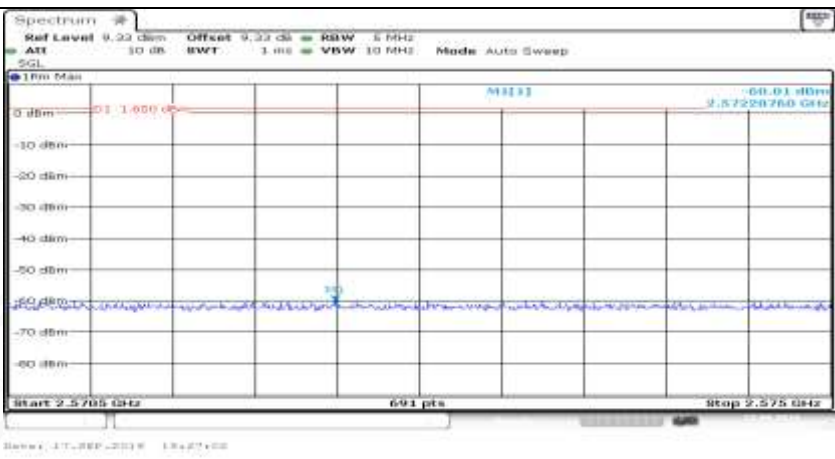
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max

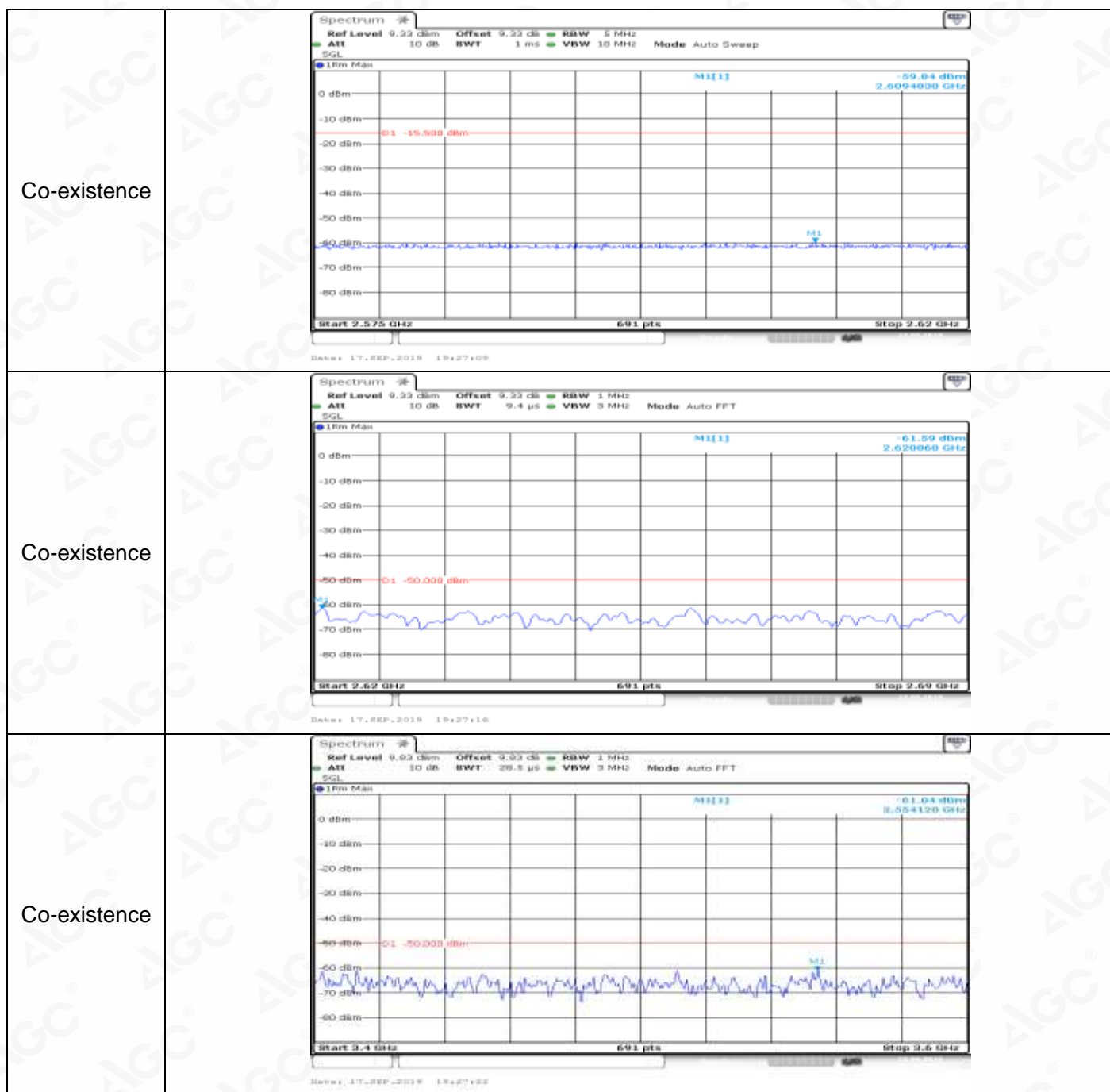
General	
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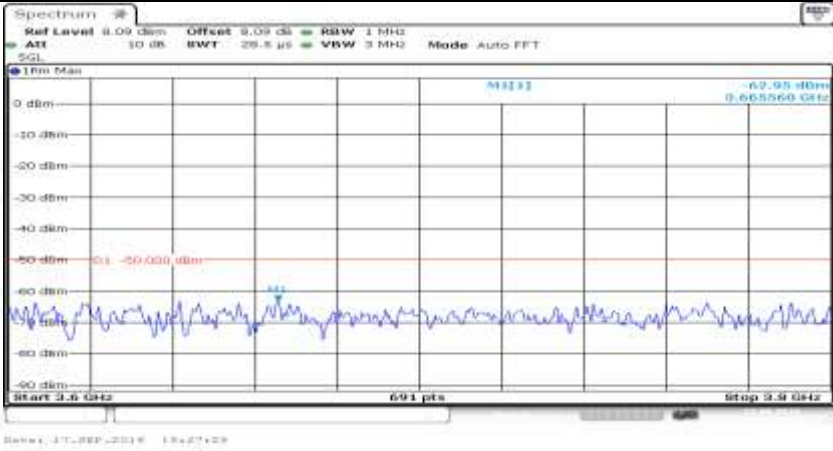
General	 <p>Spectrum plot showing a signal at -75.14 dBm. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 150.0 kHz to 30.0 MHz. The signal is a narrow band at approximately 150.0 kHz.</p>
General	 <p>Spectrum plot showing a signal at -79.02 dBm. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 30.0 MHz to 1.0 GHz. The signal is a narrow band at approximately 30.0 MHz.</p>
General	 <p>Spectrum plot showing a signal at -68.46 dBm. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 1.0 GHz to 2.4995 GHz. The signal is a narrow band at approximately 1.0 GHz.</p>

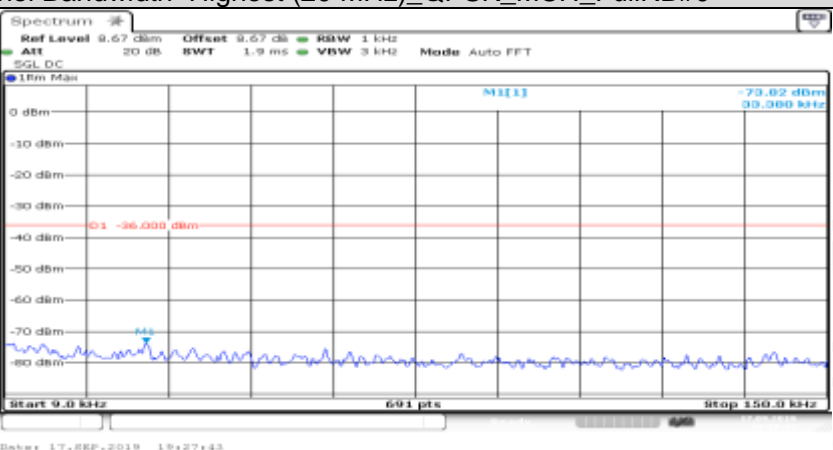
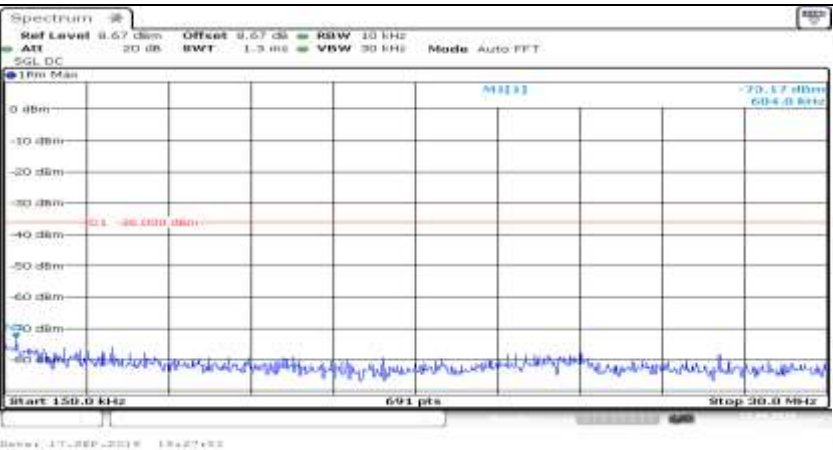
General	
General	
Co-existence	

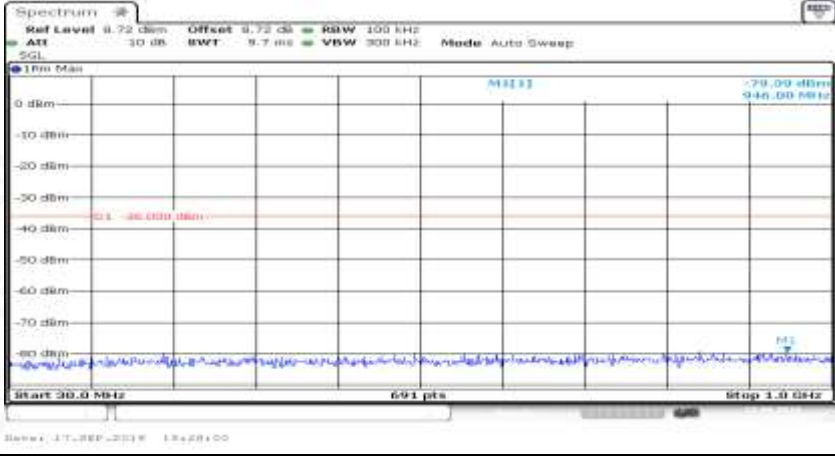
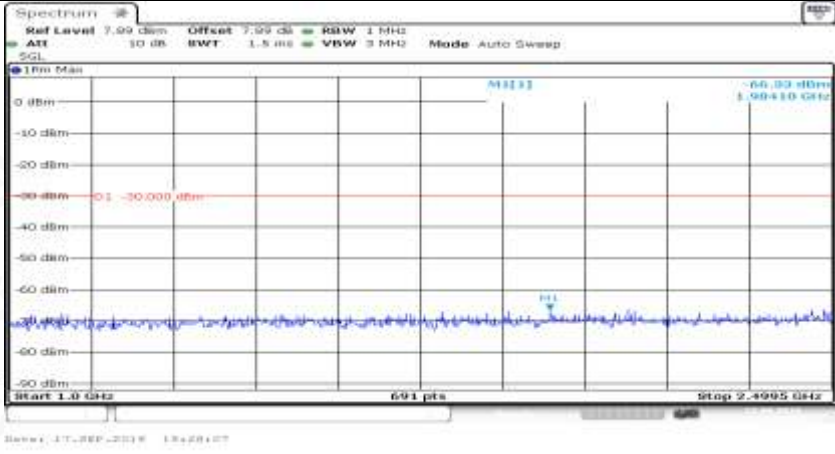
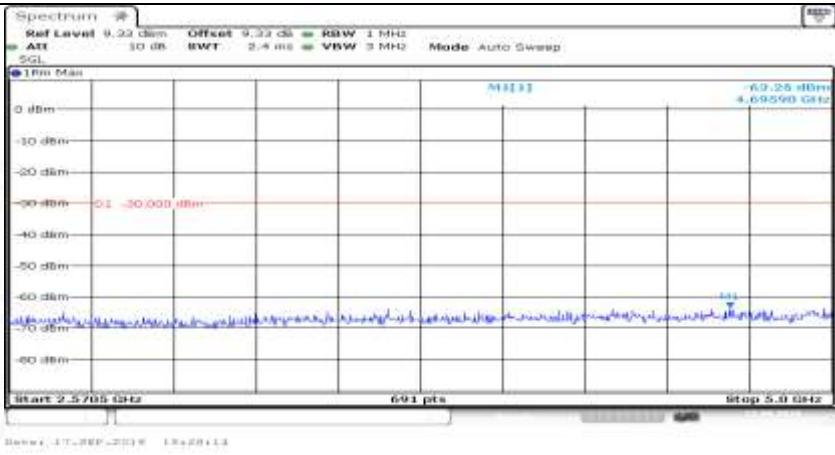


Co-existence	
Co-existence	
Co-existence	

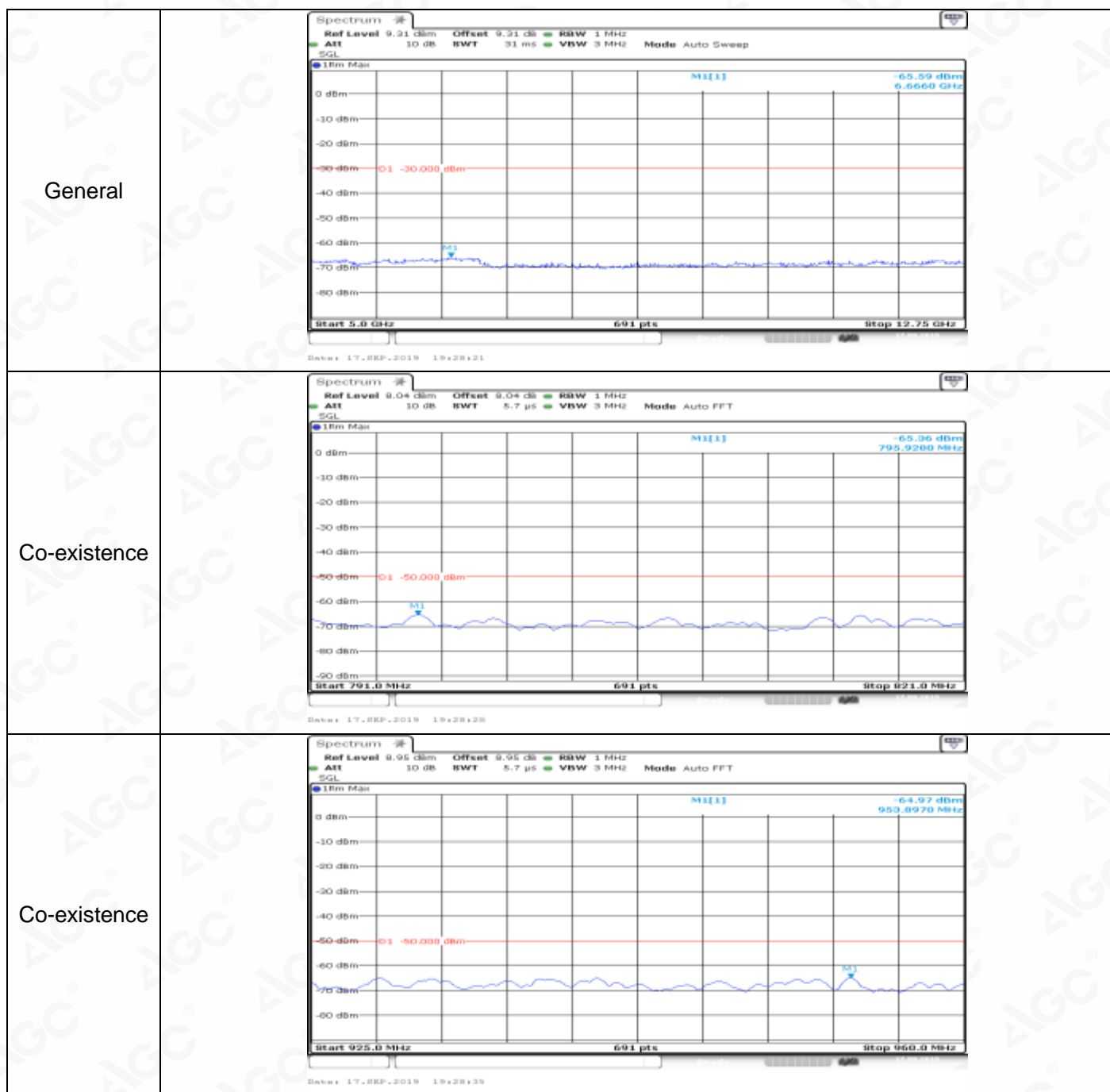


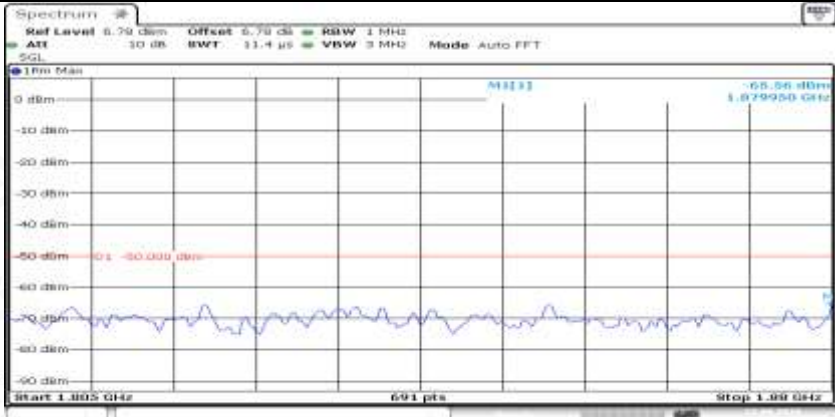
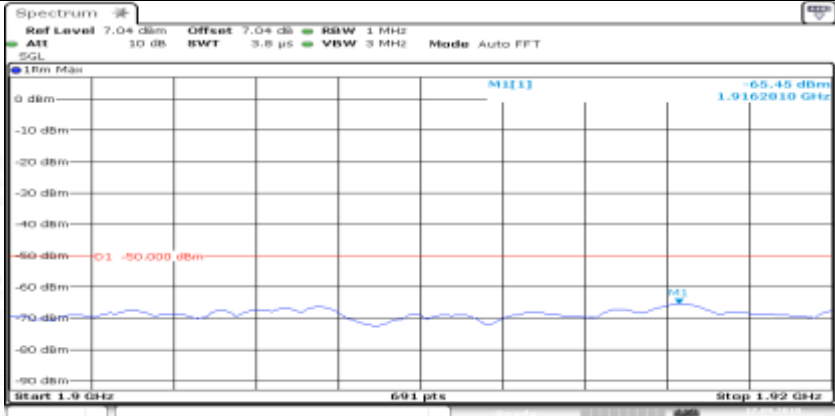
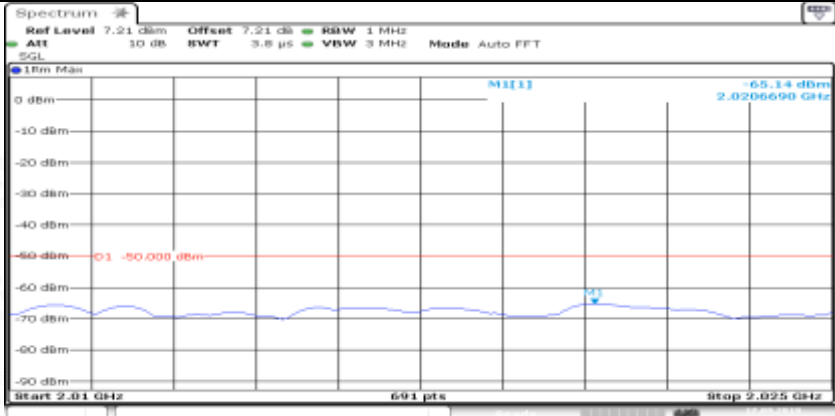
Co-existence	
Additional	NA

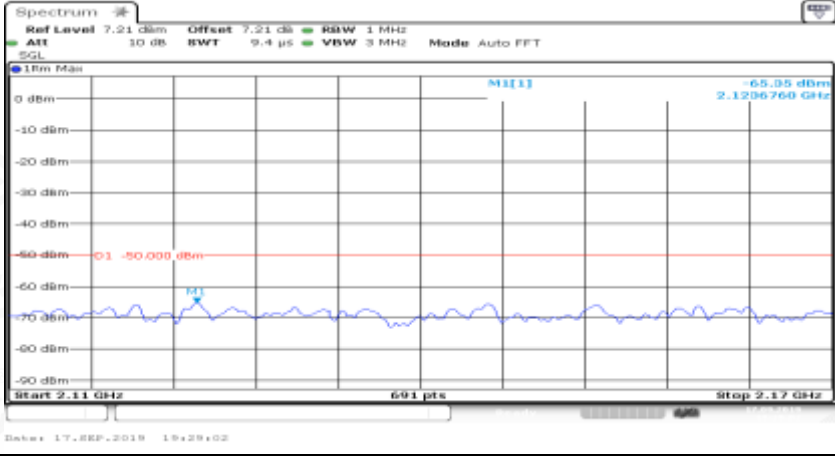
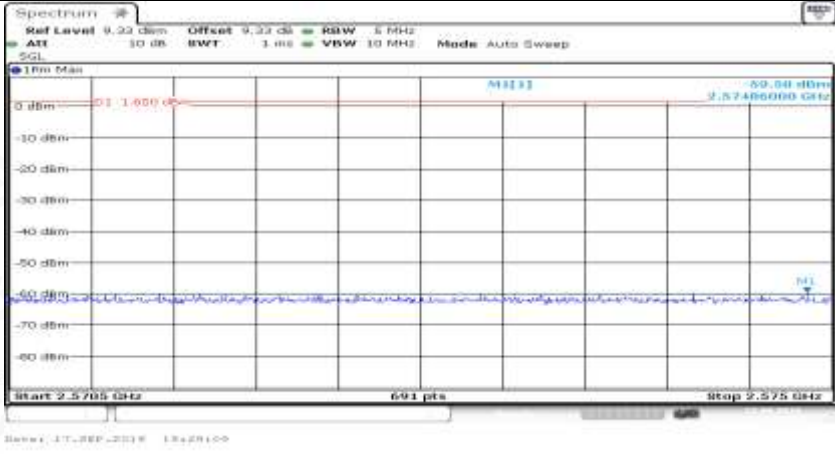
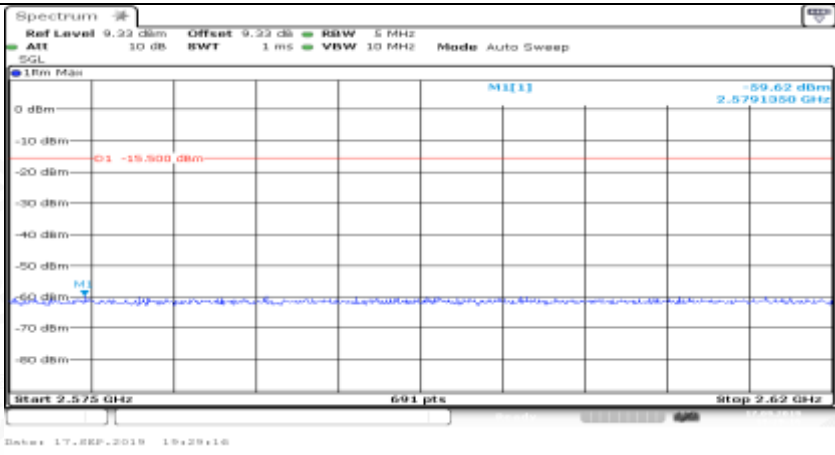
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0	
General	
General	

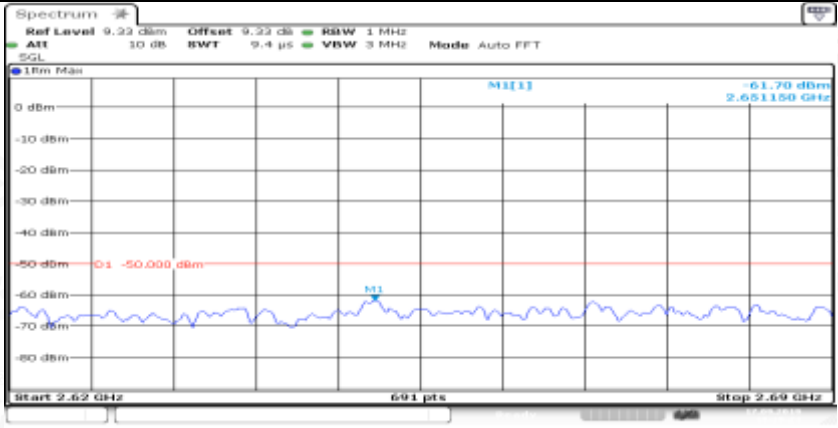
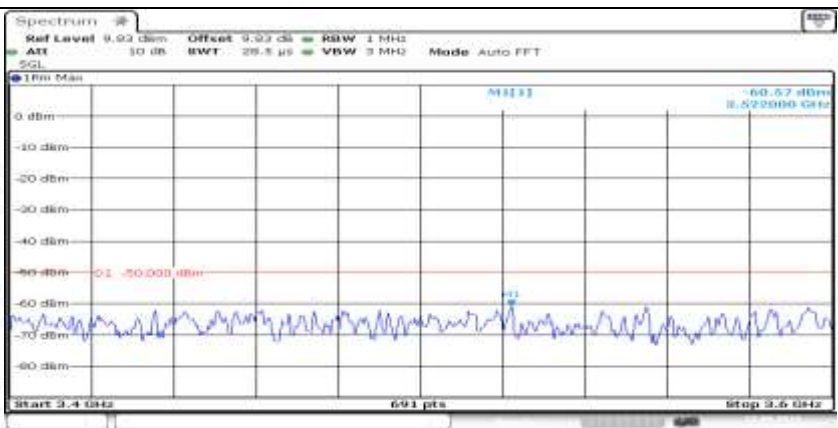
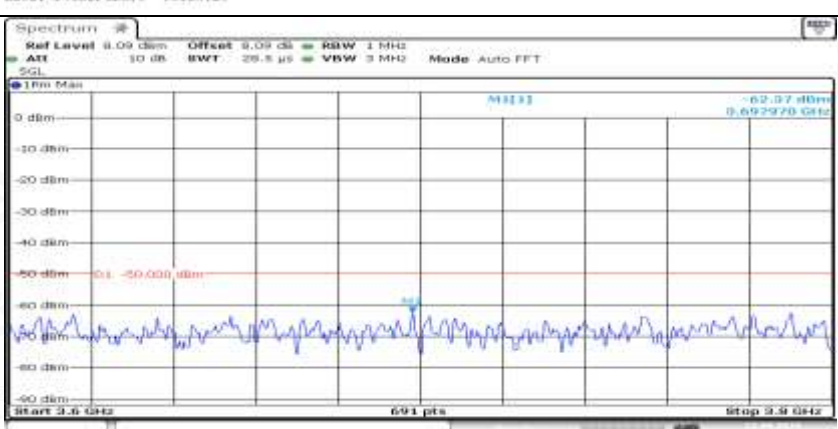
General	
General	
General	



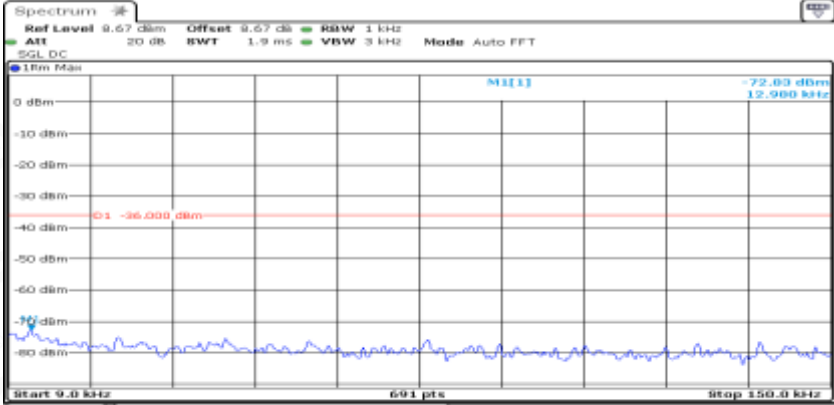
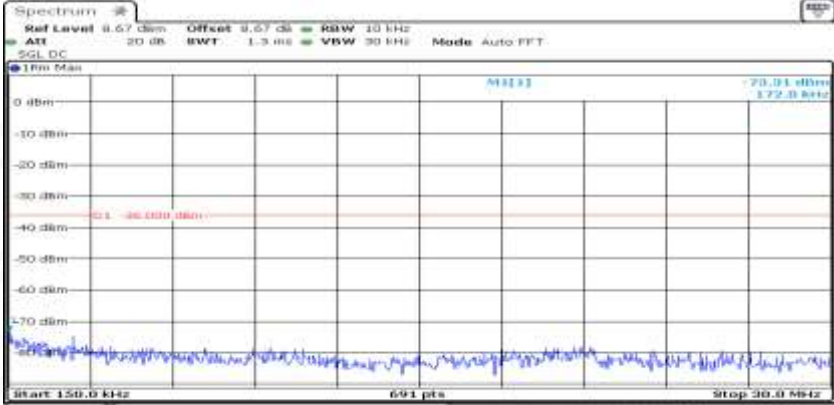
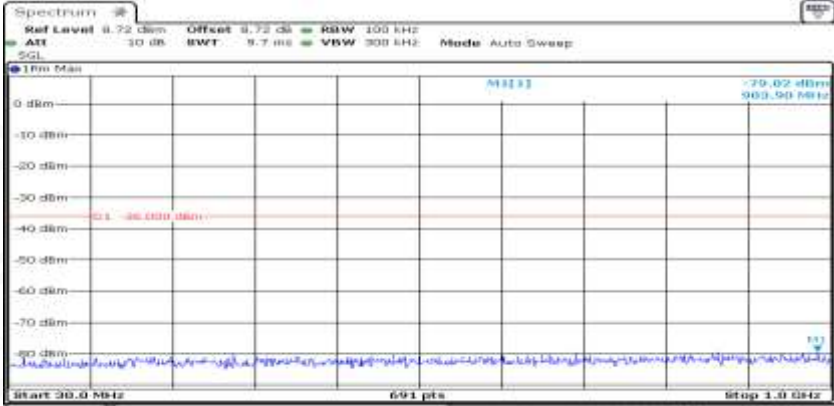


Co-existence	 <p>Spectrum plot showing a signal at -65.56 dBm. The plot includes parameters: Ref Level 8.79 dBm, Offset 6.78 dB, RBW 1 MHz, ATT 10 dB, BW 3.14 MHz, VBW 3 MHz, Mode Auto FFT. The x-axis is labeled Start 1.805 GHz and Stop 1.808 GHz. The y-axis is labeled 0 dBm to -90 dBm.</p>
Co-existence	 <p>Spectrum plot showing a signal at -65.45 dBm. The plot includes parameters: Ref Level 7.04 dBm, Offset 7.04 dB, RBW 1 MHz, ATT 10 dB, BW 3.8 MHz, VBW 3 MHz, Mode Auto FFT. The x-axis is labeled Start 1.9 GHz and Stop 1.92 GHz. The y-axis is labeled 0 dBm to -90 dBm.</p>
Co-existence	 <p>Spectrum plot showing a signal at -65.14 dBm. The plot includes parameters: Ref Level 7.21 dBm, Offset 7.21 dB, RBW 1 MHz, ATT 10 dB, BW 3.8 MHz, VBW 3 MHz, Mode Auto FFT. The x-axis is labeled Start 2.01 GHz and Stop 2.025 GHz. The y-axis is labeled 0 dBm to -90 dBm.</p>

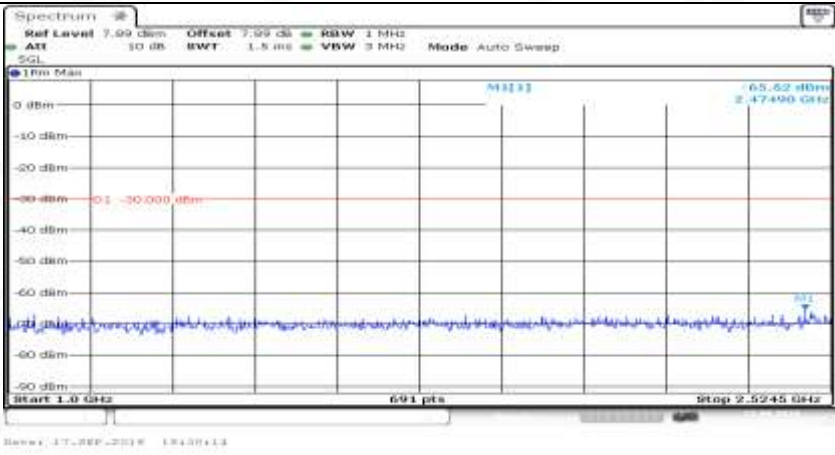
Co-existence	
Co-existence	
Co-existence	

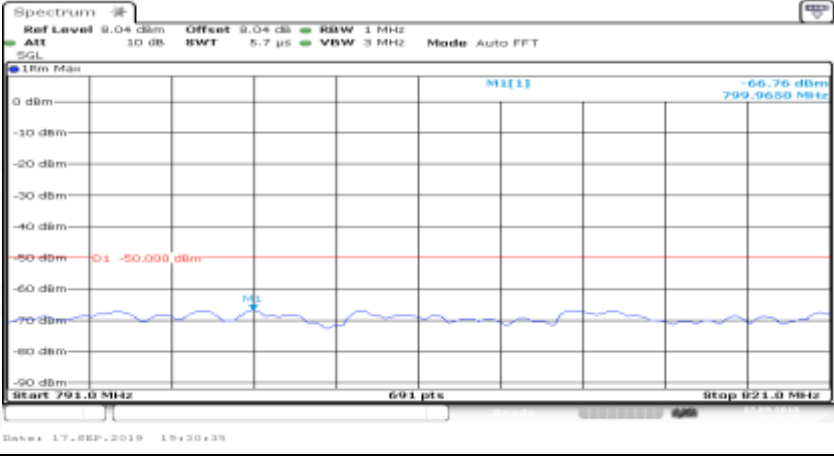
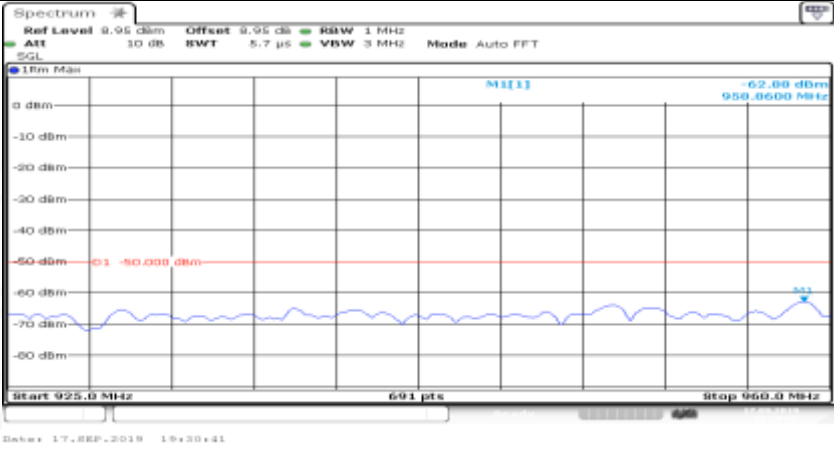

Co-existence	 <p>Spectrum</p> <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 2.62 GHz 691 pts Stop 2.69 GHz</p> <p>Peak 1: -61.70 dBm 2.651150 GHz</p> <p>Baseline: -50.000 dBm</p> <p>Date: 17-SEP-2019 19:29:23</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.02 dBm Offset 9.02 dB RBW 1 MHz ATT 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 3.4 GHz 691 pts Stop 3.6 GHz</p> <p>Peak 1: -60.67 dBm 3.522000 GHz</p> <p>Baseline: -50.000 dBm</p> <p>Date: 17-SEP-2019 19:29:29</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 8.09 dBm Offset 8.09 dB RBW 1 MHz ATT 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 3.6 GHz 691 pts Stop 3.8 GHz</p> <p>Peak 1: -62.07 dBm 3.692970 GHz</p> <p>Baseline: -50.000 dBm</p> <p>Date: 17-SEP-2019 19:29:35</p>
Additional	NA

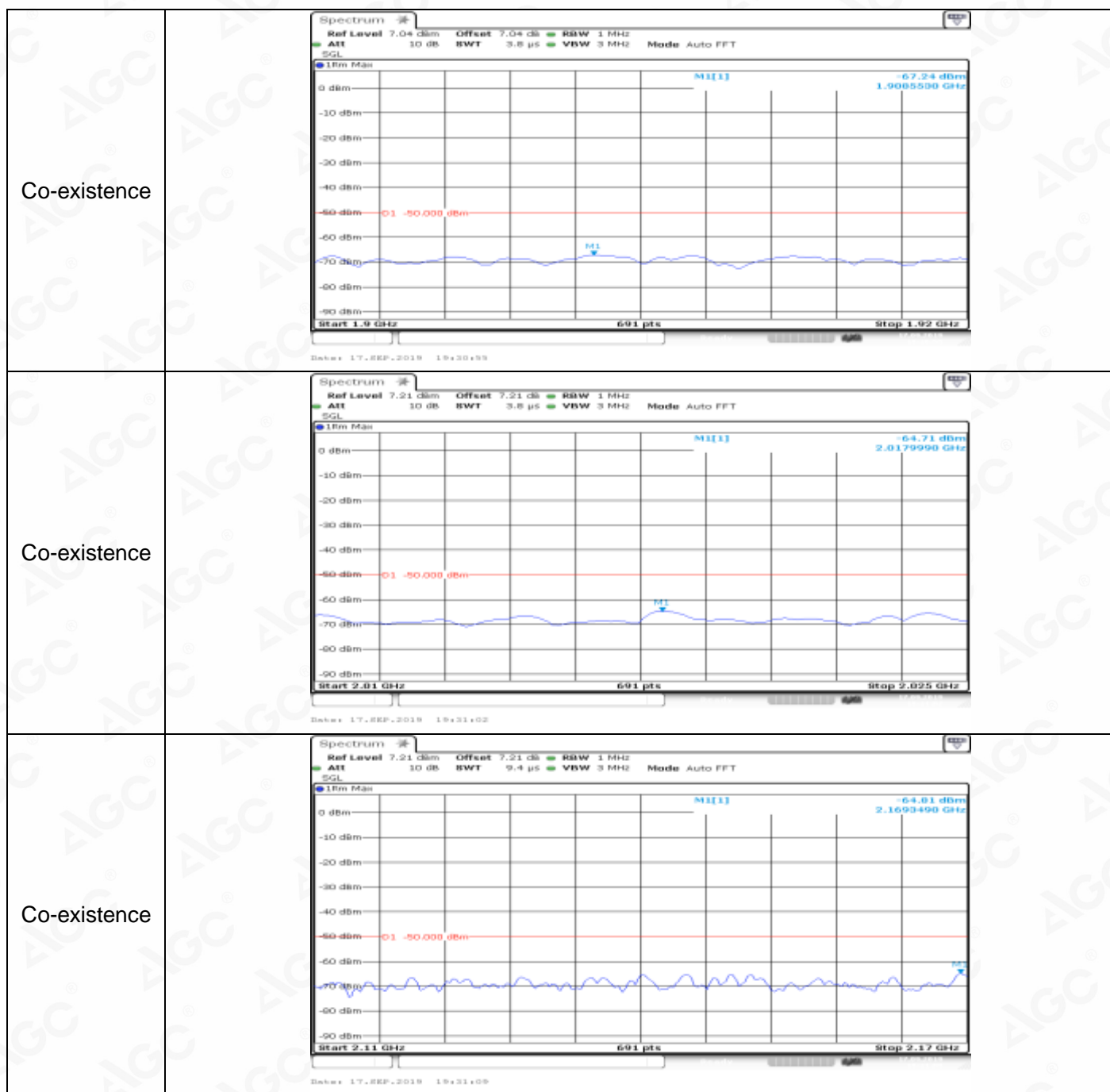
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

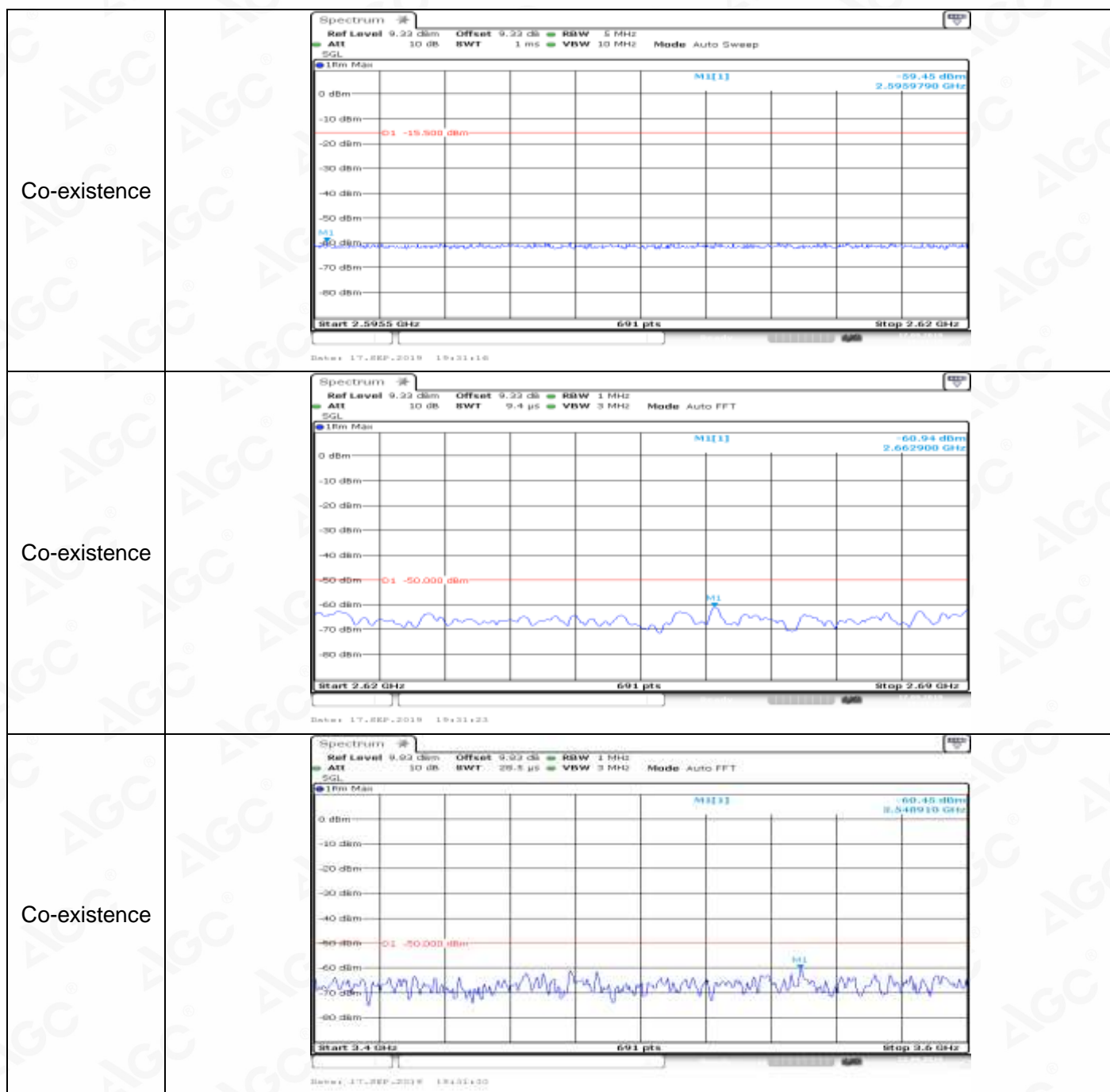
General	
General	
General	

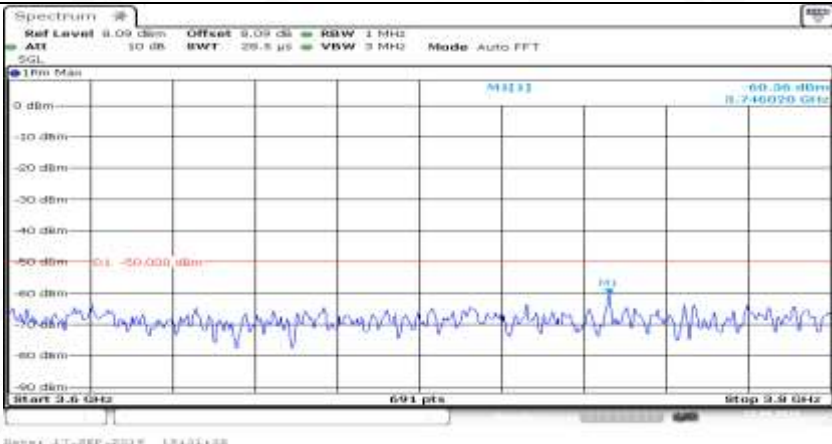


General	
General	
General	

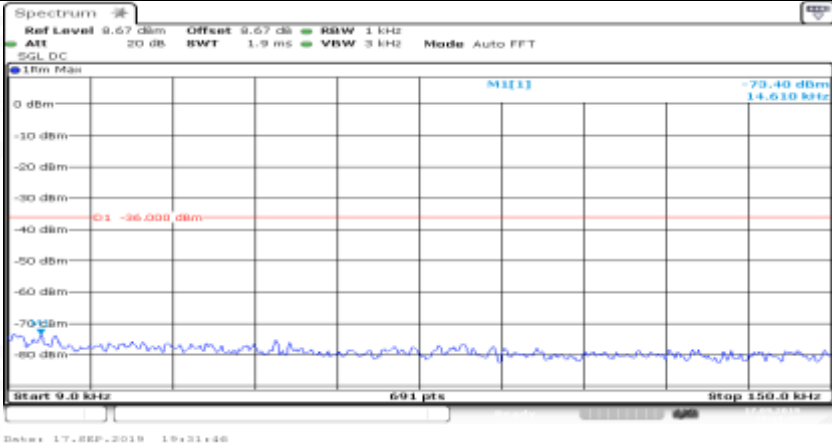
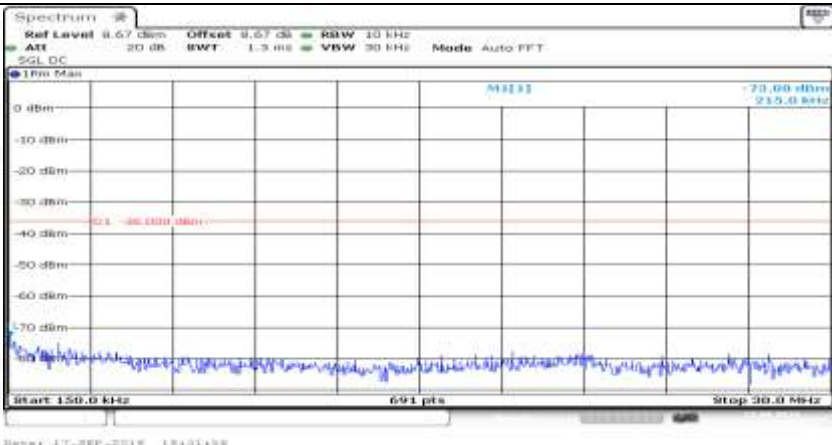
Co-existence	
Co-existence	
Co-existence	

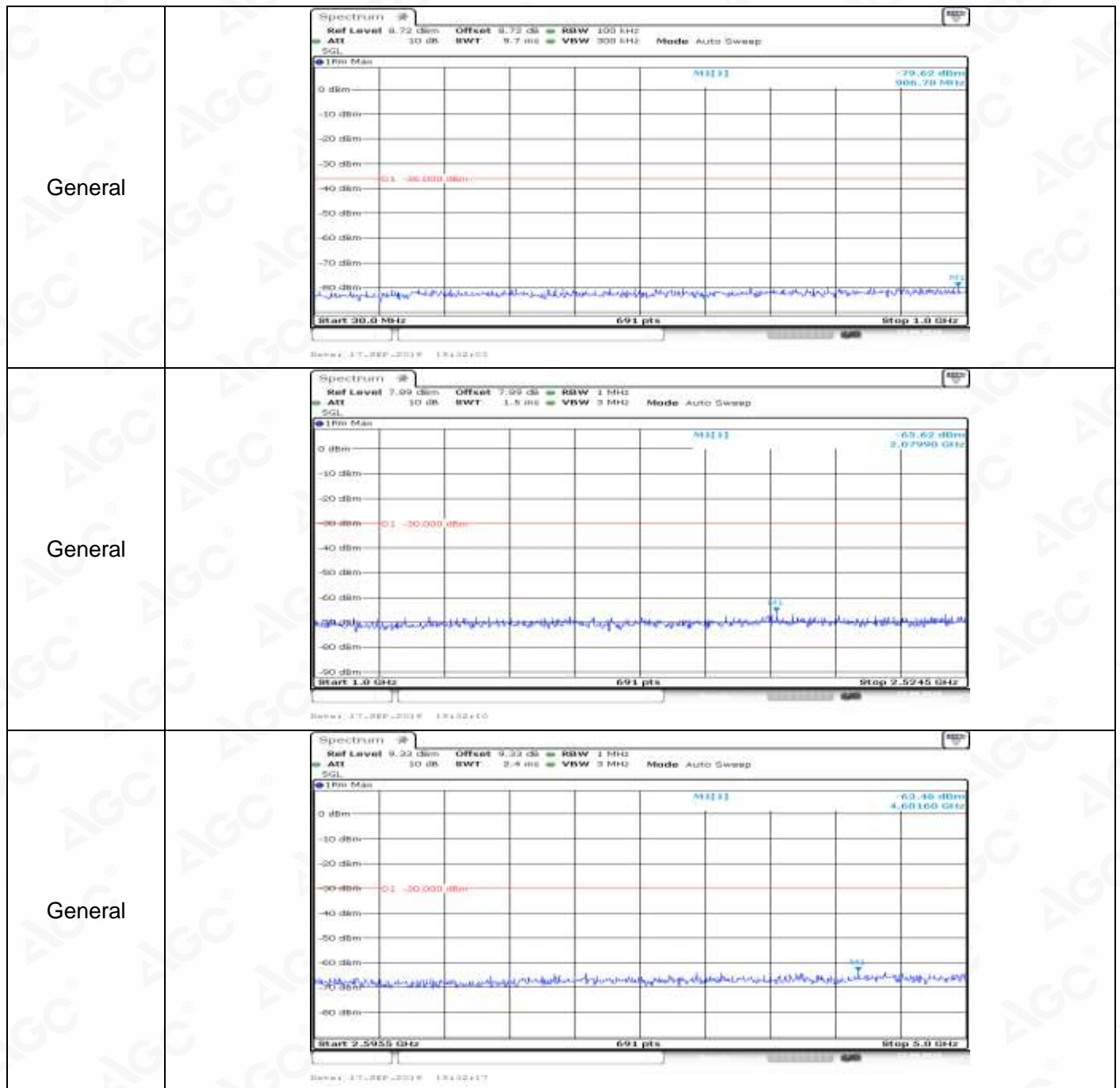


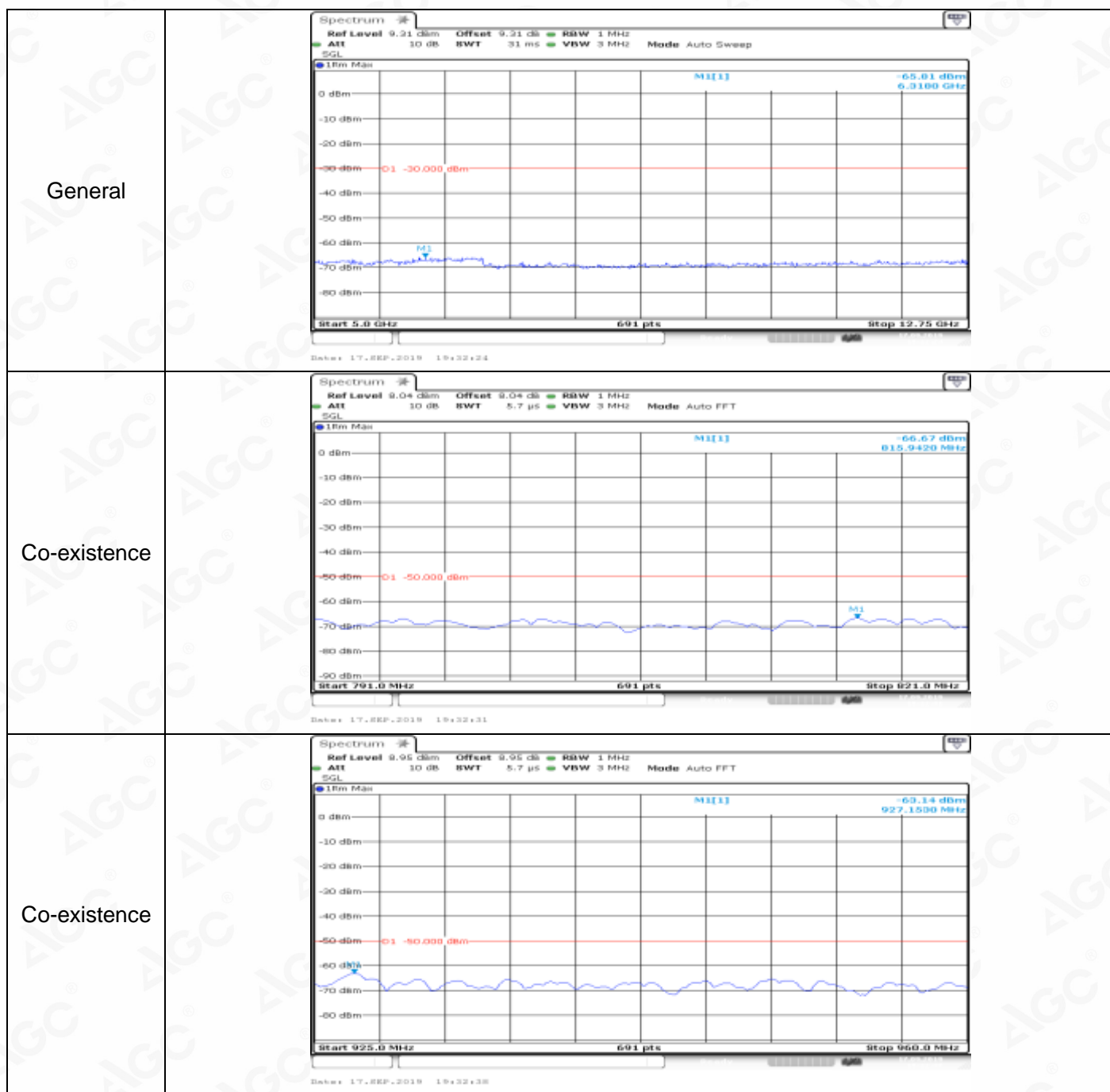



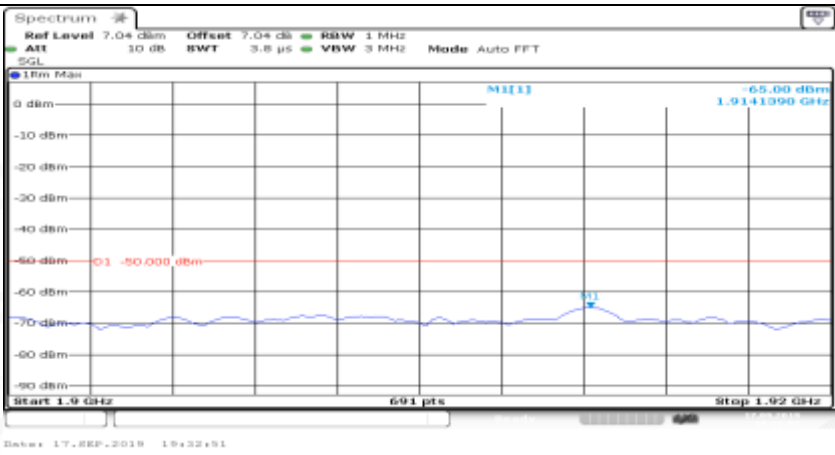
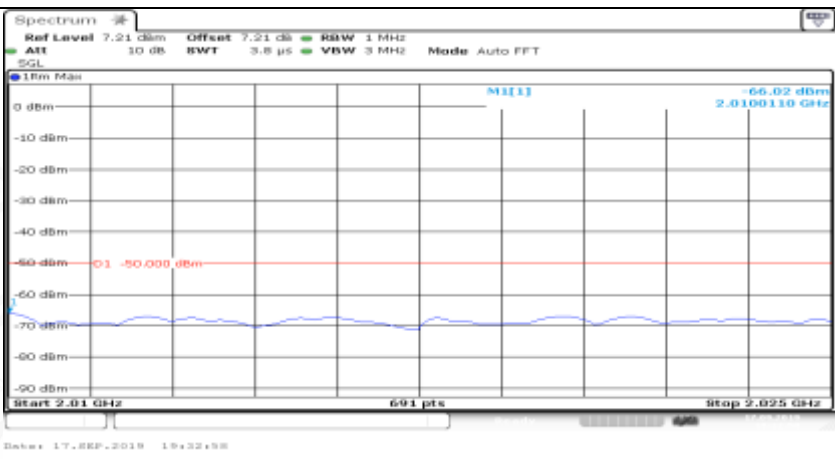
Co-existence	
Additional	NA

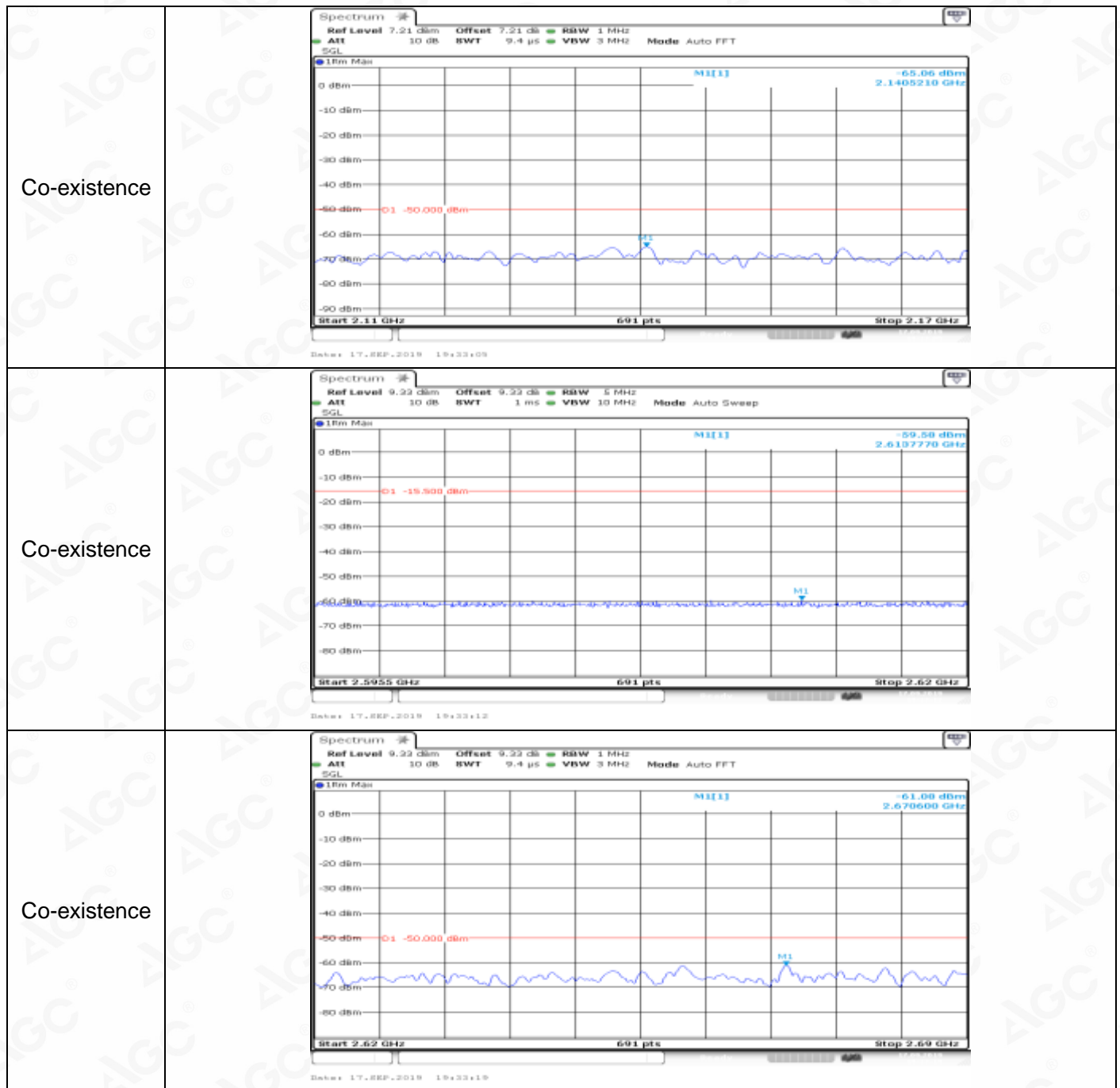
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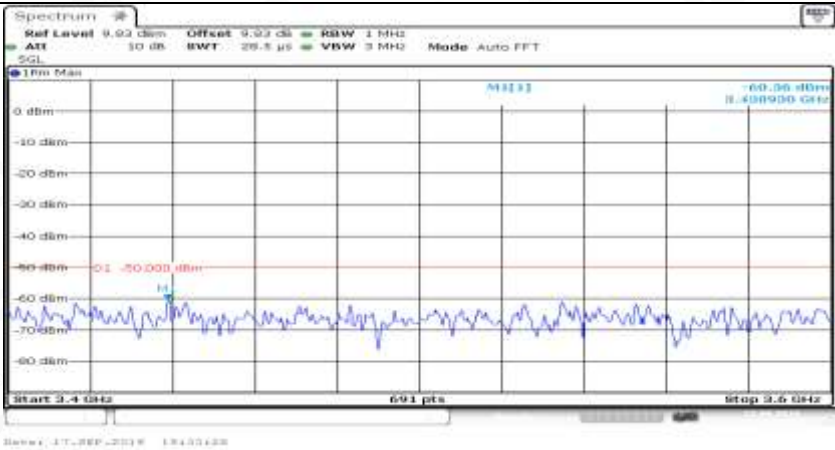
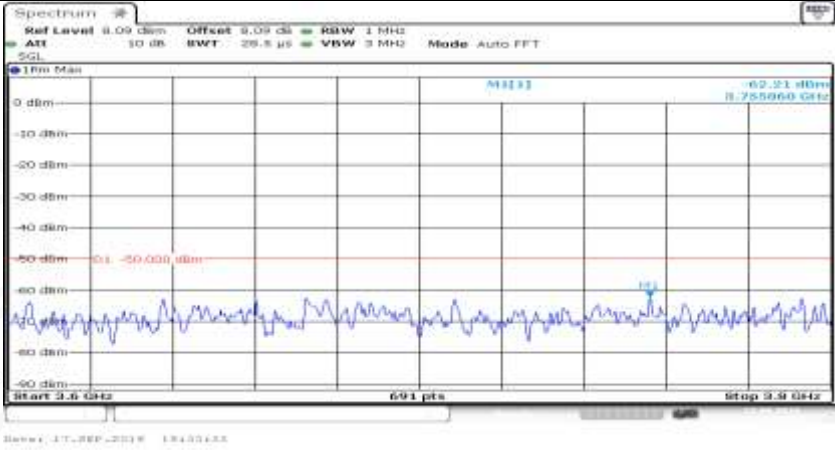
General	
General	

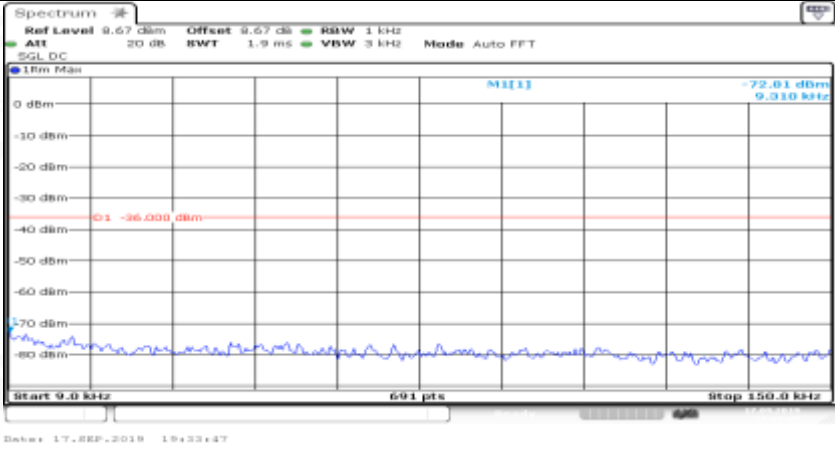


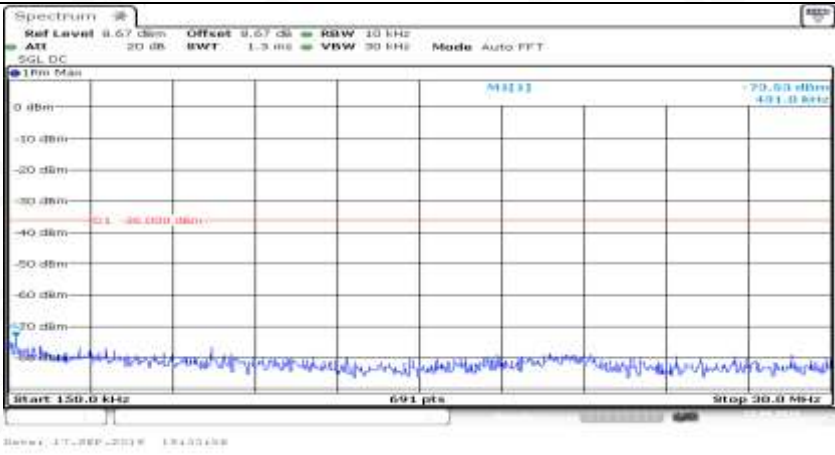

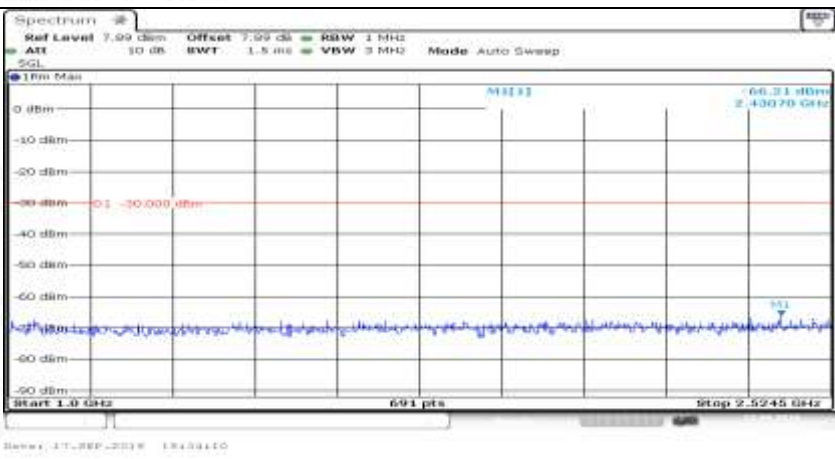


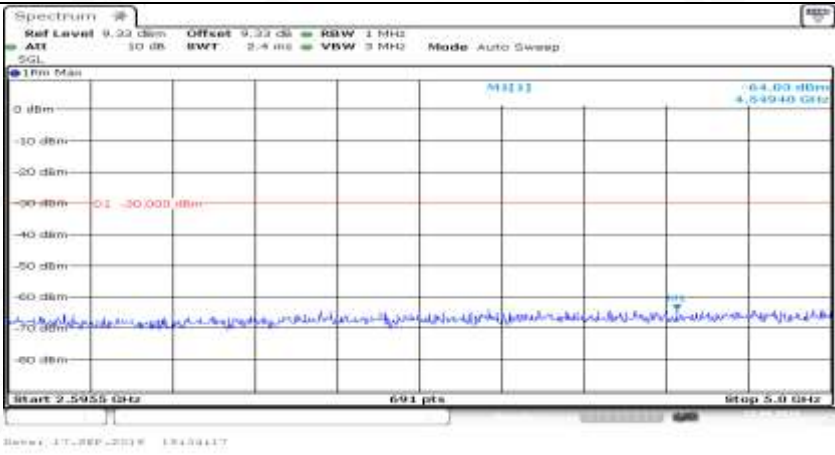
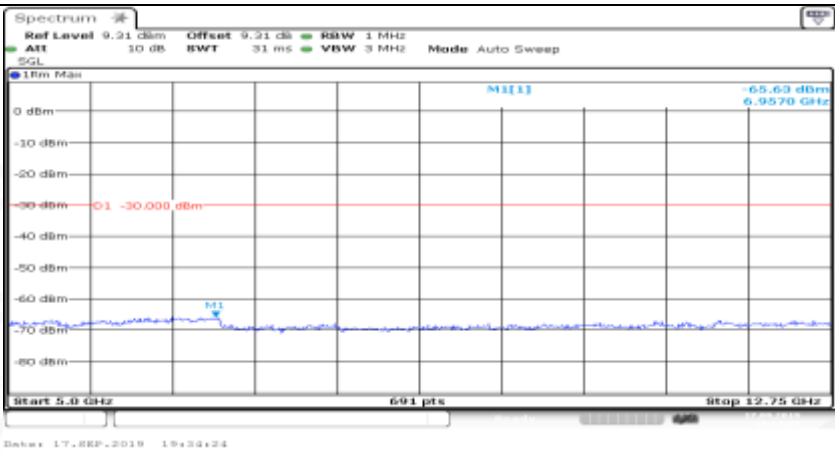
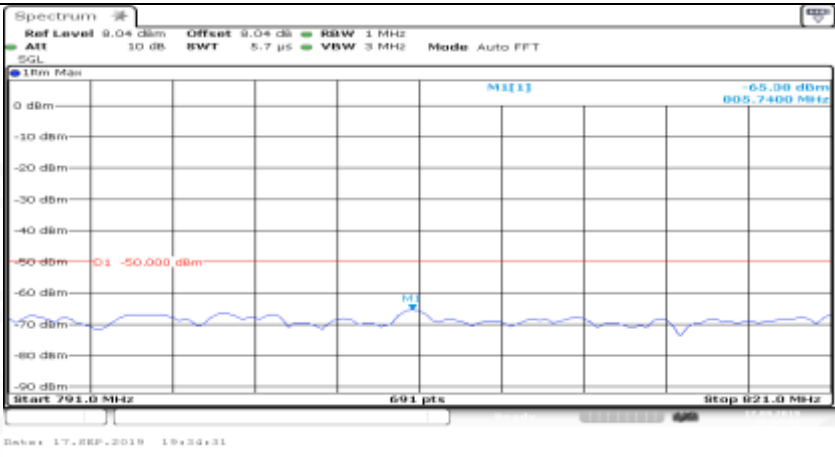
Co-existence	
Co-existence	
Co-existence	

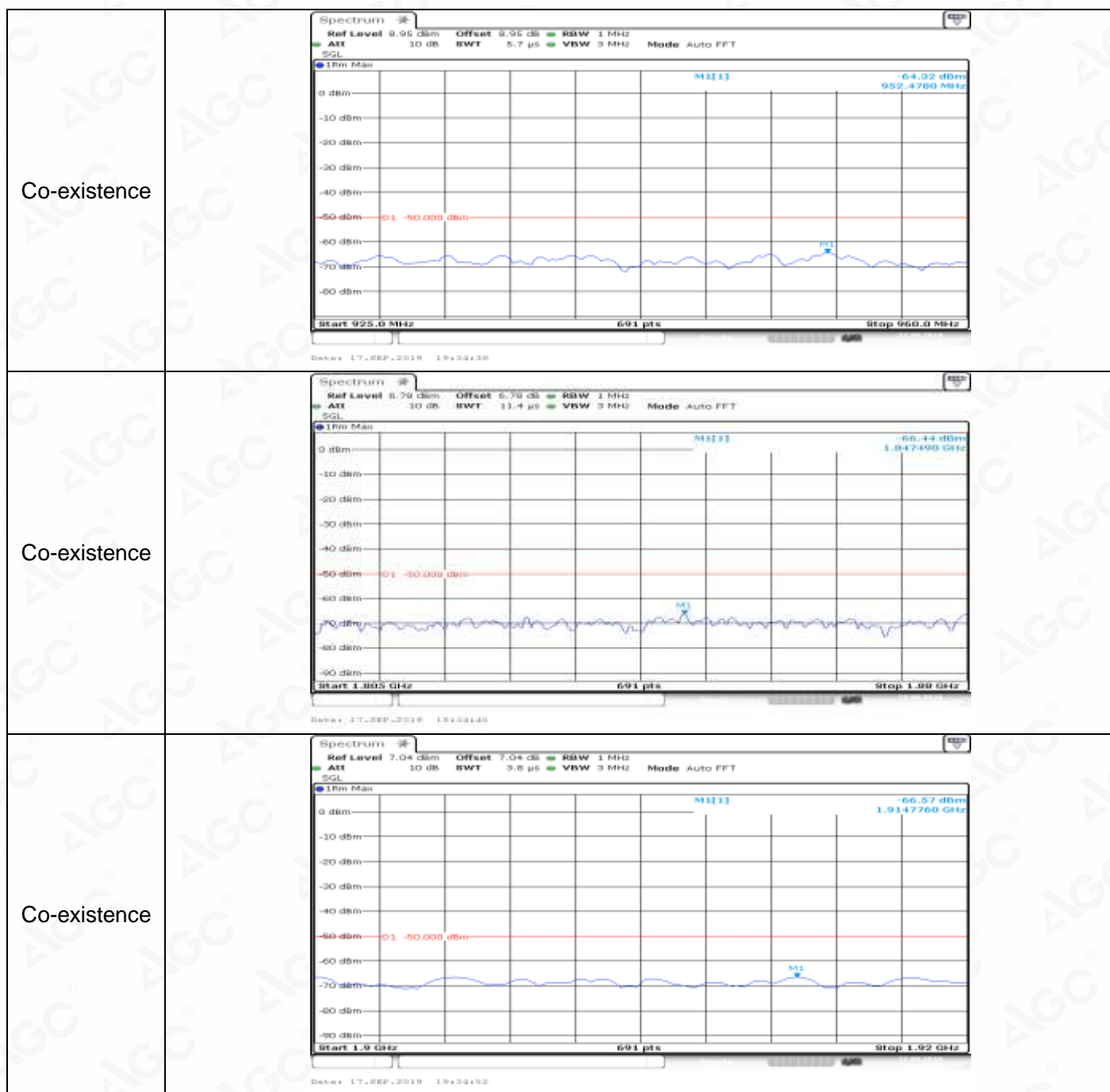


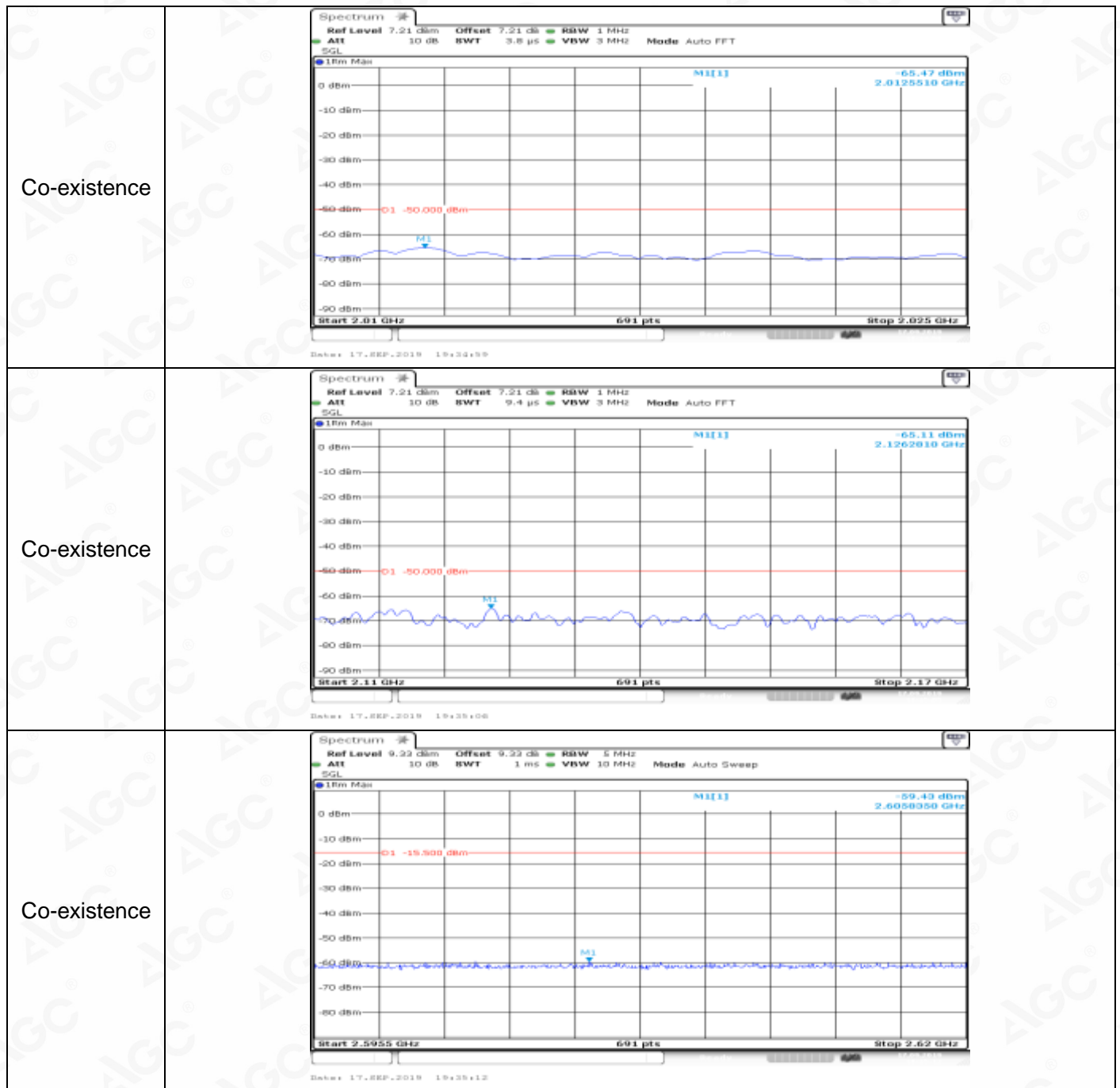
Co-existence	
Co-existence	
Additional	NA

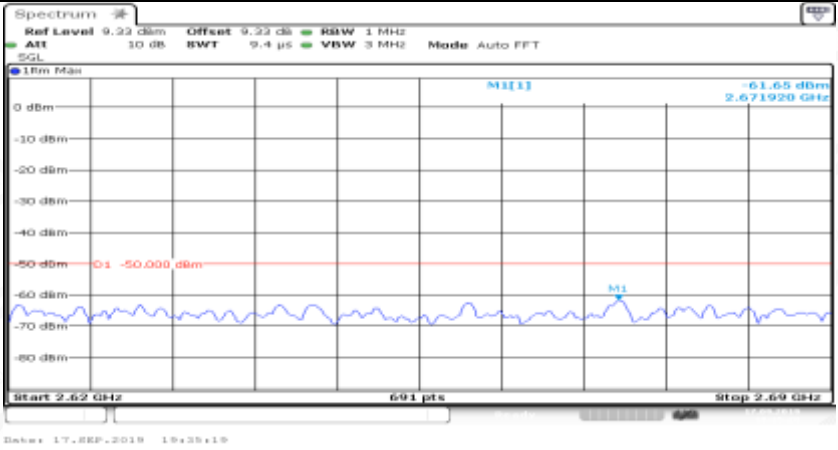
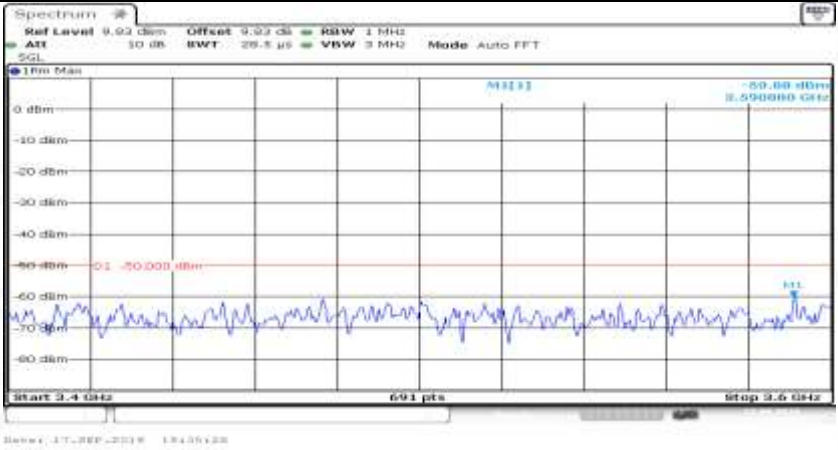
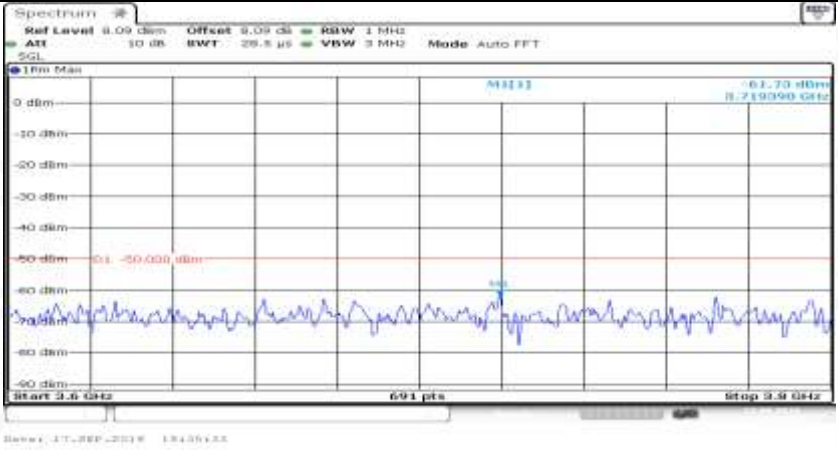
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullRB#0	
General	

General	
General	
General	

General	 <p>Spectrum plot showing a noise floor around -65 dBm. A red line indicates a limit at -30.000 dBm. The x-axis ranges from 2.5055 GHz to 5.0 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
General	 <p>Spectrum plot showing a noise floor around -65.63 dBm. A red line indicates a limit at -30.000 dBm. The x-axis ranges from 5.0 GHz to 12.75 GHz. The y-axis ranges from 0 dBm to -80 dBm.</p>
Co-existence	 <p>Spectrum plot showing a noise floor around -65.58 dBm. A red line indicates a limit at -50.000 dBm. The x-axis ranges from 791.0 MHz to 823.0 MHz. The y-axis ranges from 0 dBm to -80 dBm.</p>





Co-existence	
Co-existence	
Co-existence	
Additional	NA

6. Receiver Spurious Emissions

Test Result

NTNV

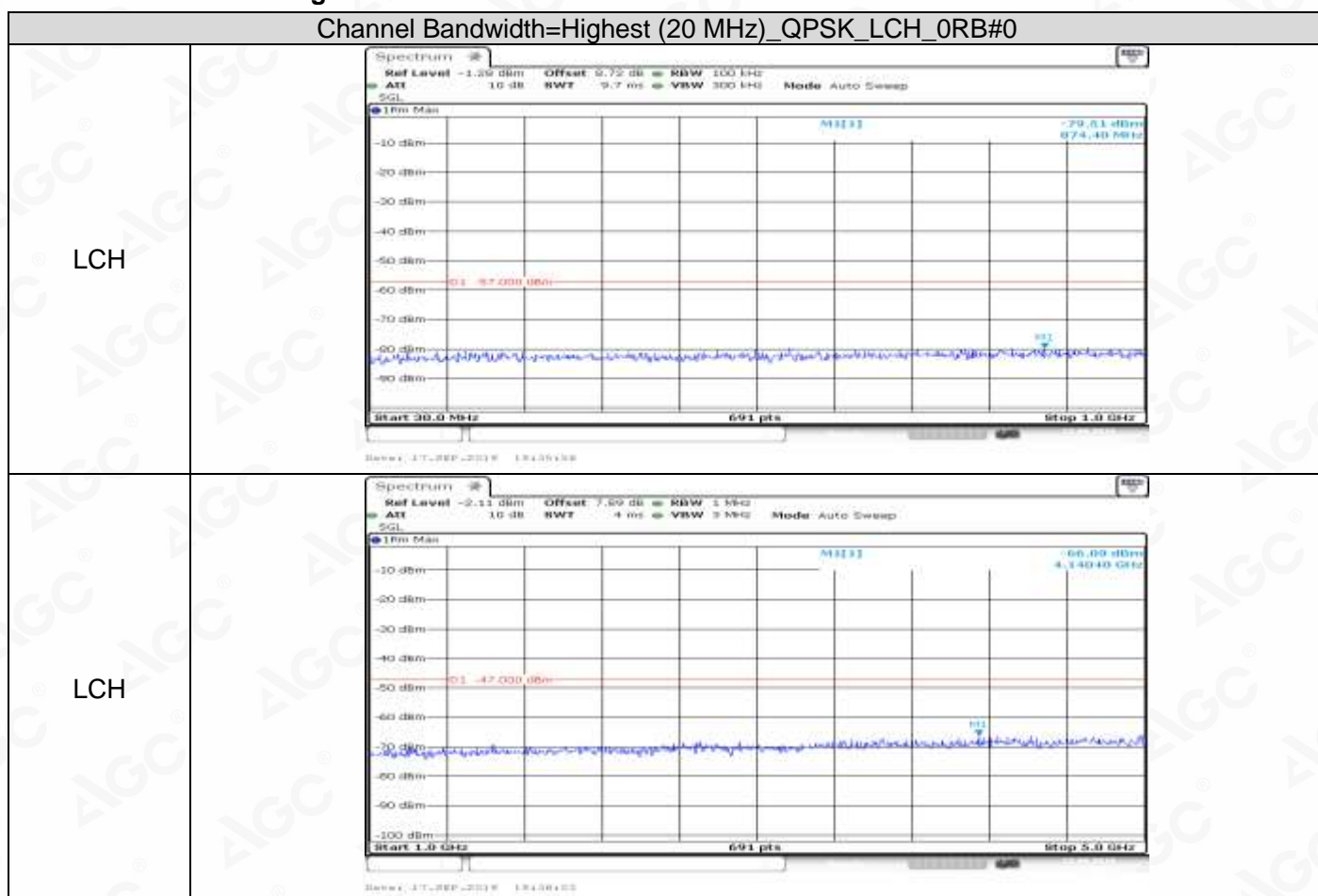
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest



Attestation of Global Compliance

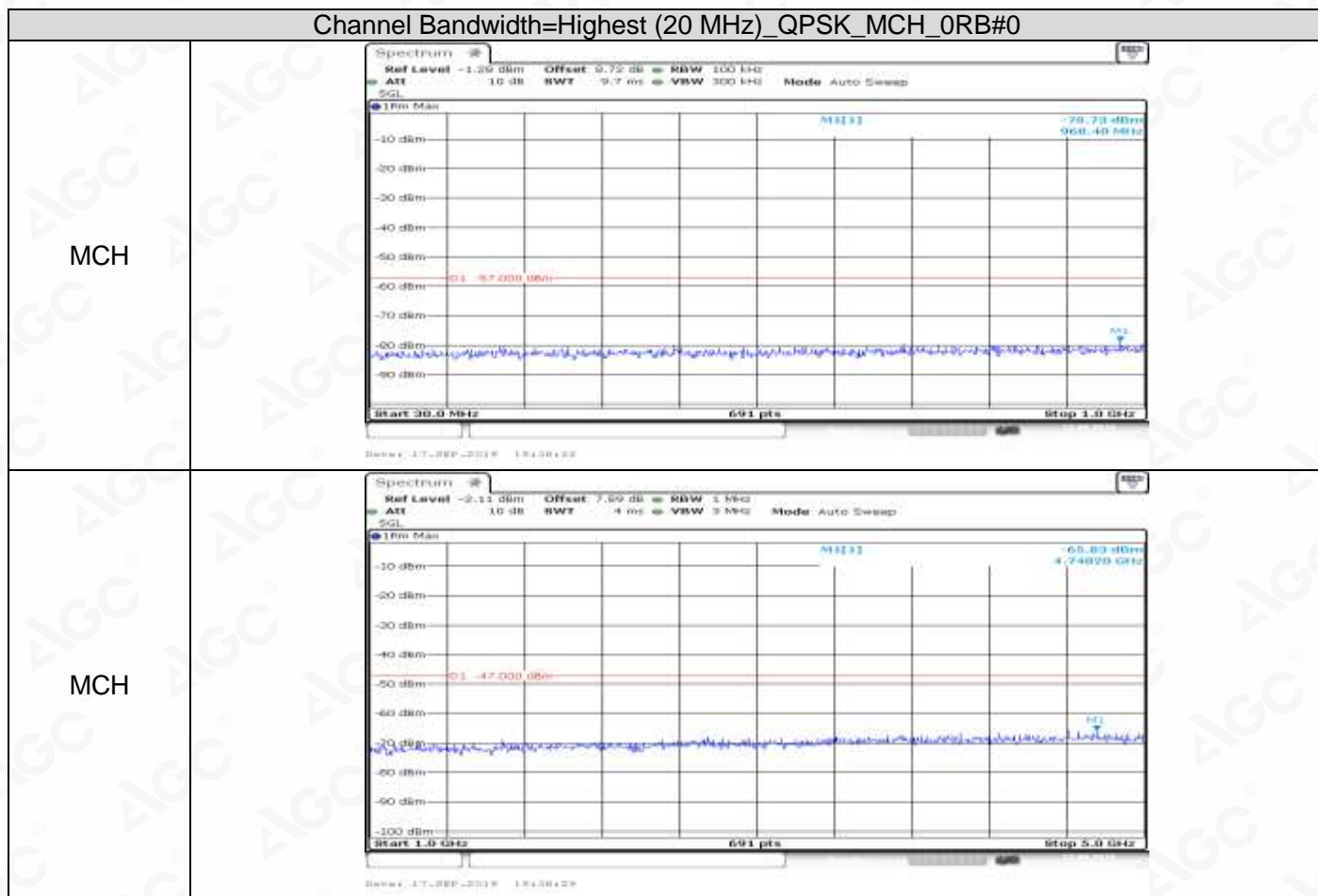
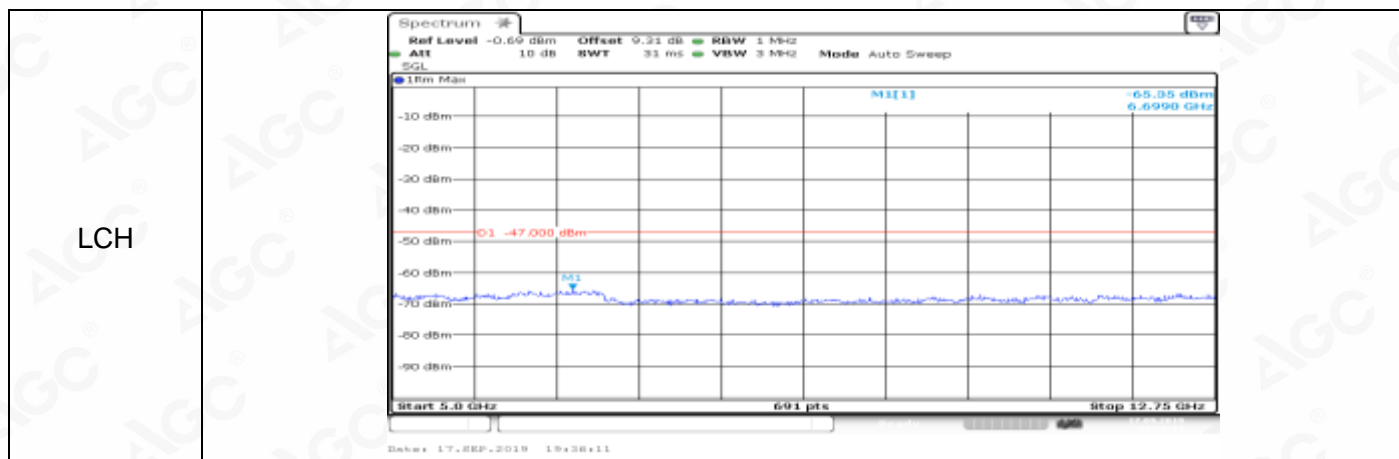
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

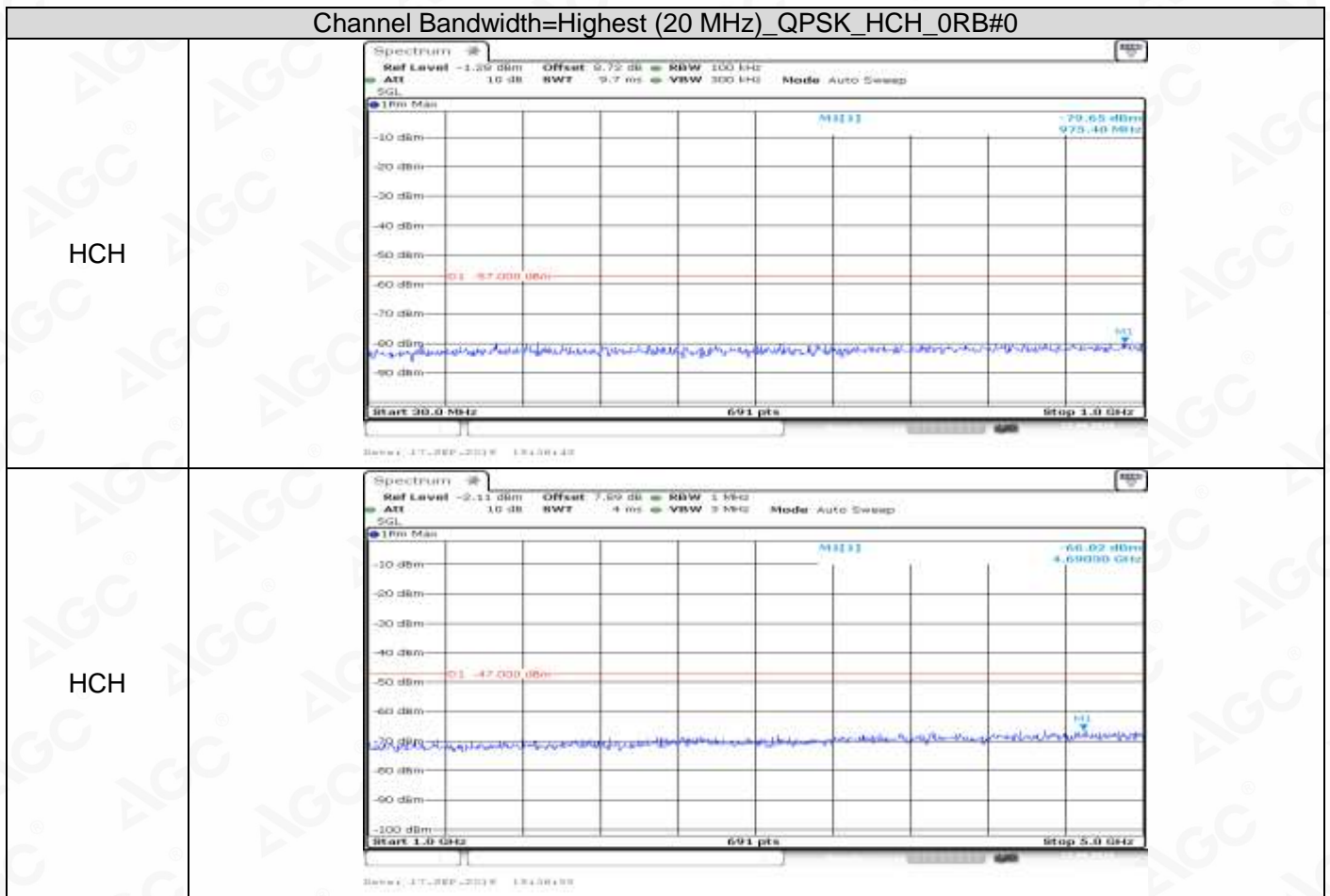
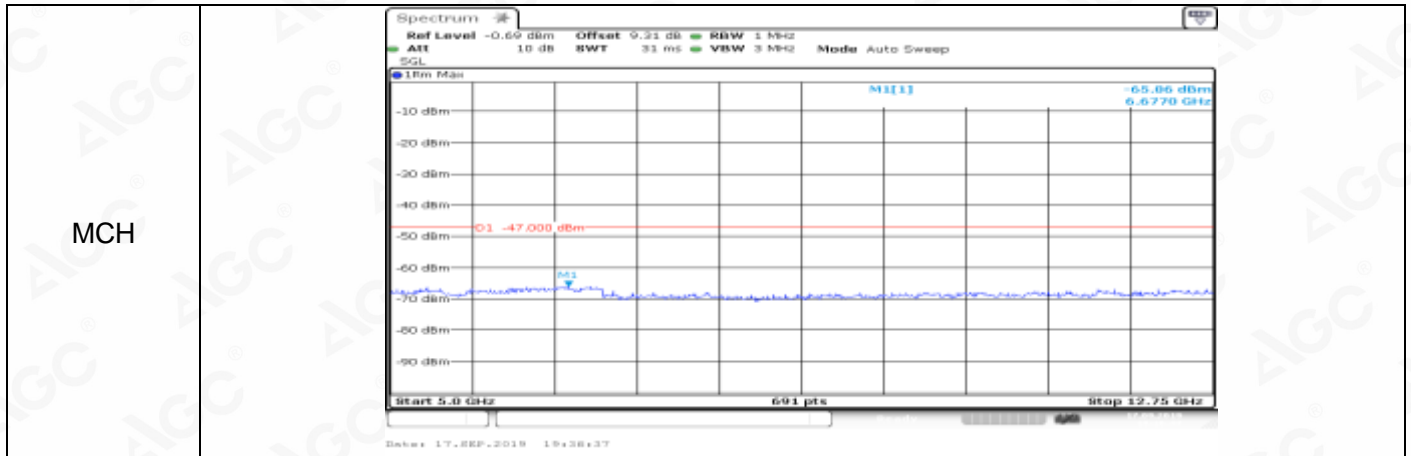
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

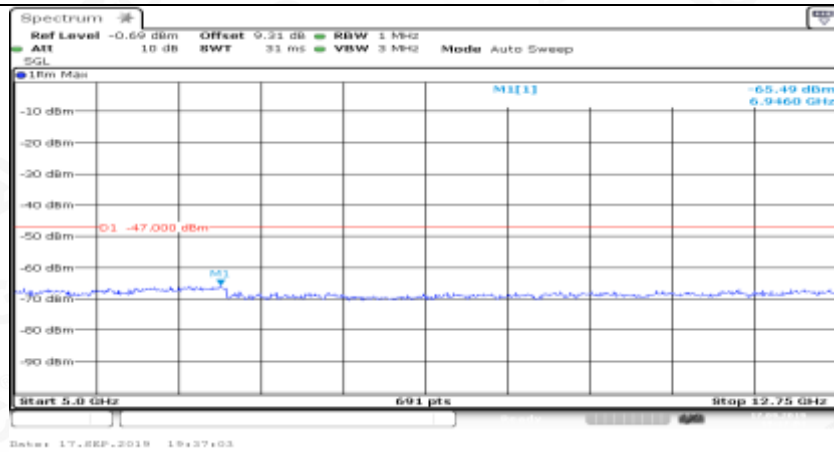
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118





HCH



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 7			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					



11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

	Test Band			Band 7			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TN,VN	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					



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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-69.81	-70.10	-70.48
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-66.96	-67.32	-67.77
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-67.18	-67.69	-68.22



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Appendix D for Band 8

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	23.59	Pass
					max	23.56	Pass
				Partial	0	23.67	Pass
					max	23.63	Pass
			Mid range	1	0	23.63	Pass
					max	23.63	Pass
				Partial	0	23.62	Pass
					max	23.67	Pass
			High range	1	0	23.92	Pass
					max	24.01	Pass
				Partial	0	24.20	Pass
					max	23.48	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	1	0	23.67	Pass
					max	23.72	Pass
				Partial	0	23.62	Pass
					max	23.74	Pass
			Mid range	1	0	23.68	Pass
					max	23.79	Pass
				Partial	0	23.70	Pass
					max	23.75	Pass
			High range	1	0	23.99	Pass
					max	23.95	Pass
				Partial	0	24.05	Pass
					max	23.95	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	1	0	23.64	Pass
					max	23.60	Pass
				Partial	0	23.71	Pass
					max	23.73	Pass
			Mid range	1	0	23.67	Pass
					max	23.76	Pass
				Partial	0	23.71	Pass
					max	23.81	Pass
			High range	1	0	23.93	Pass
					max	23.94	Pass
				Partial	0	24.00	Pass
					max	23.91	Pass


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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Full	0	-49.13	Pass
			Mid range	Full	0	-50.84	Pass
			High range	Full	0	-50.16	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5MHz	Low range	Full	0	-50.57	Pass
			Mid range	Full	0	-50.74	Pass
			High range	Full	0	-50.34	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	10MHz	Low range	Full	0	-50.08	Pass
			Mid range	Full	0	-50.28	Pass
			High range	Full	0	-49.82	Pass



3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass



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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



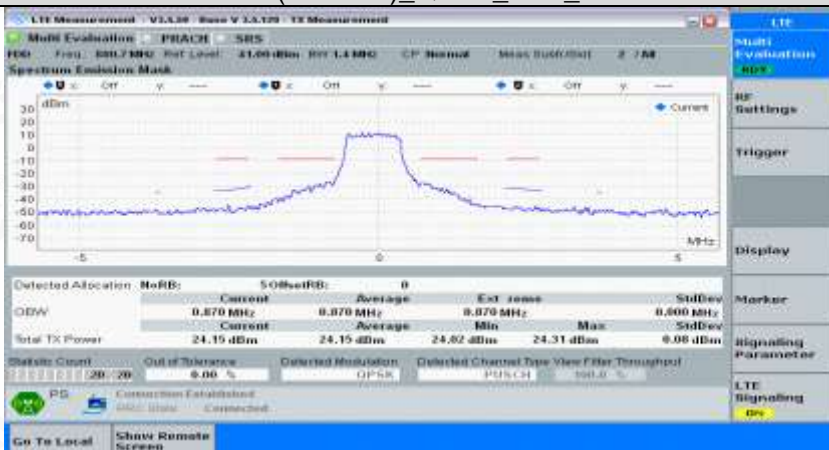
Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

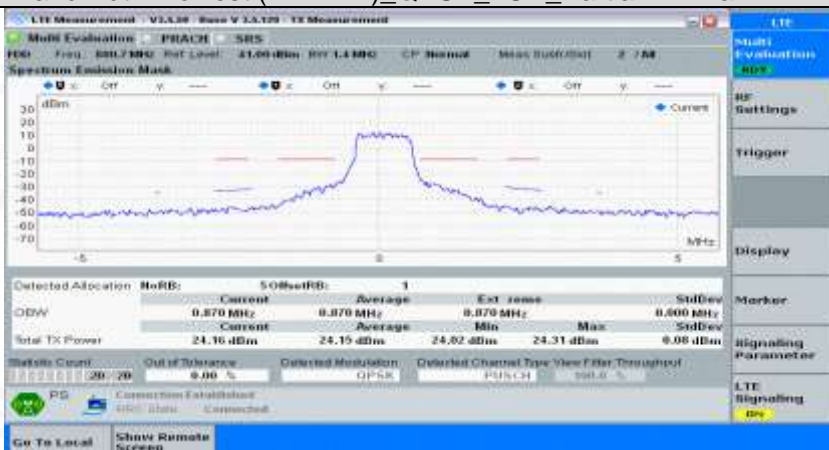
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QPSK



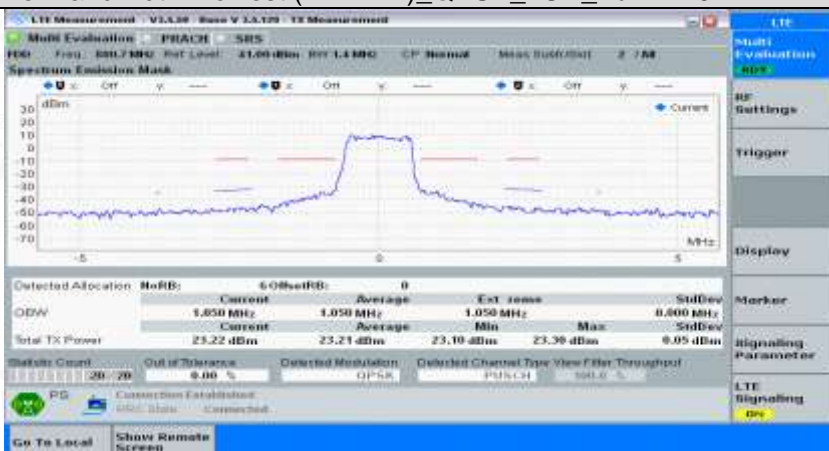
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QPSK

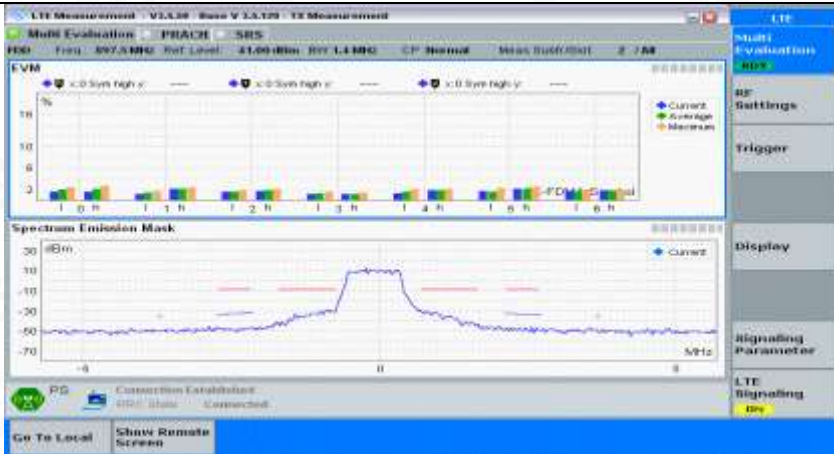
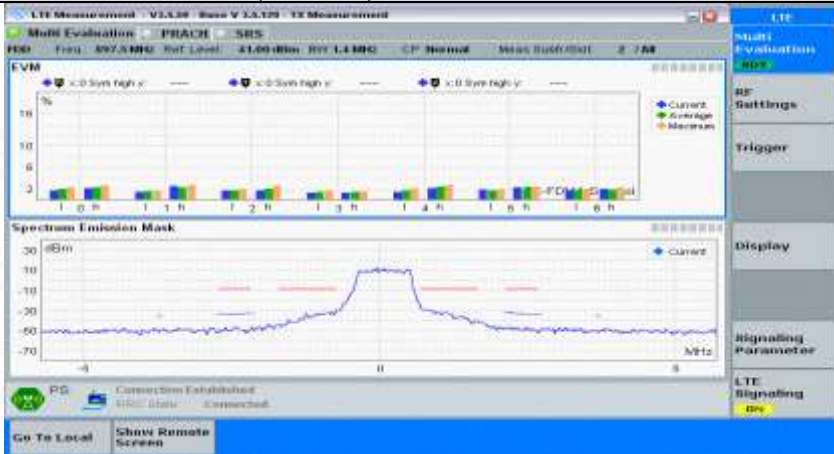
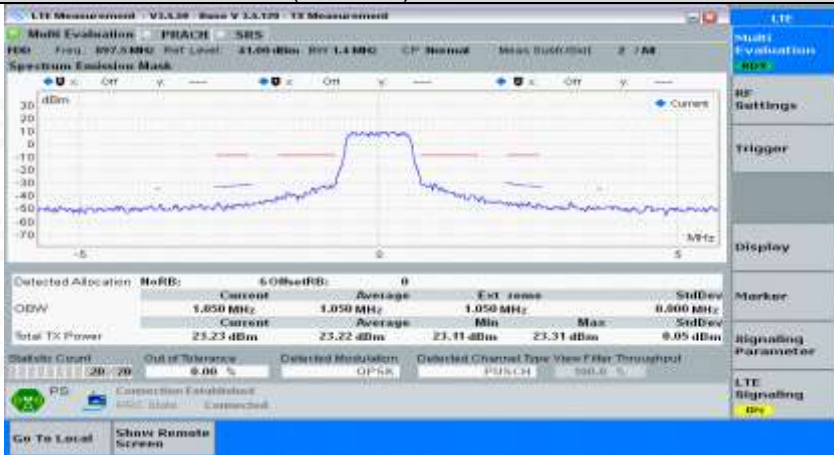


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QPSK

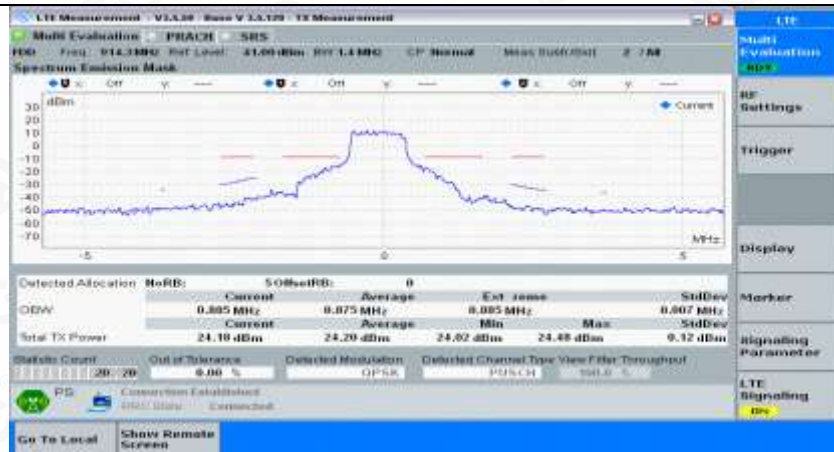


Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0

QPSK	
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	

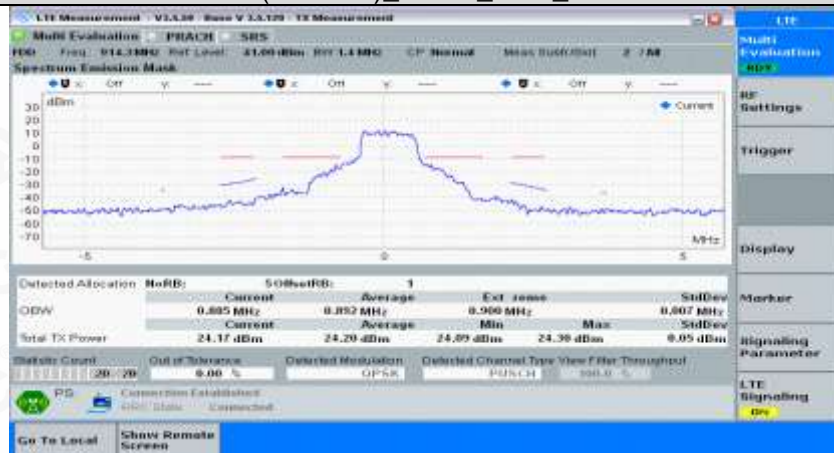


QPSK



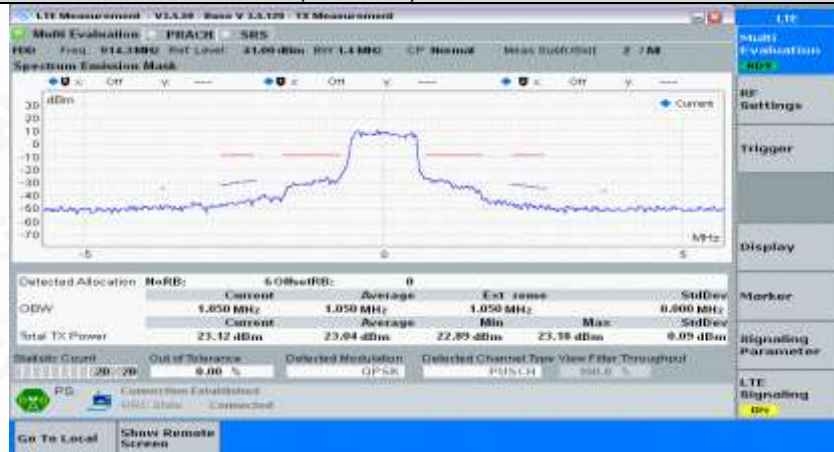
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QPSK

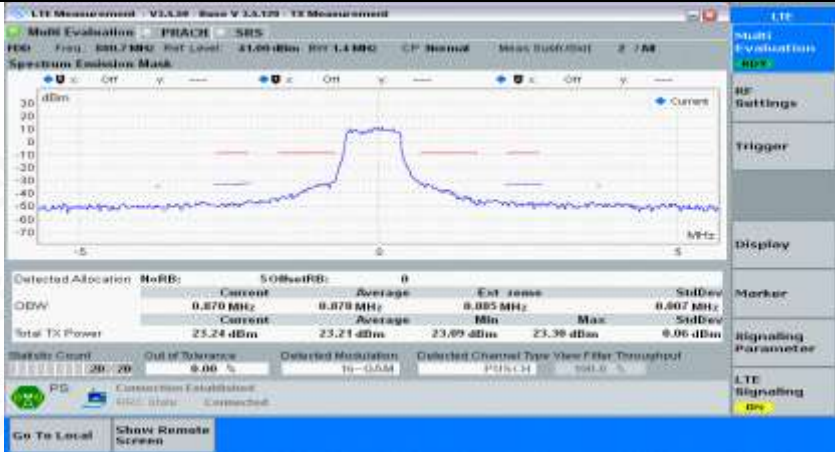
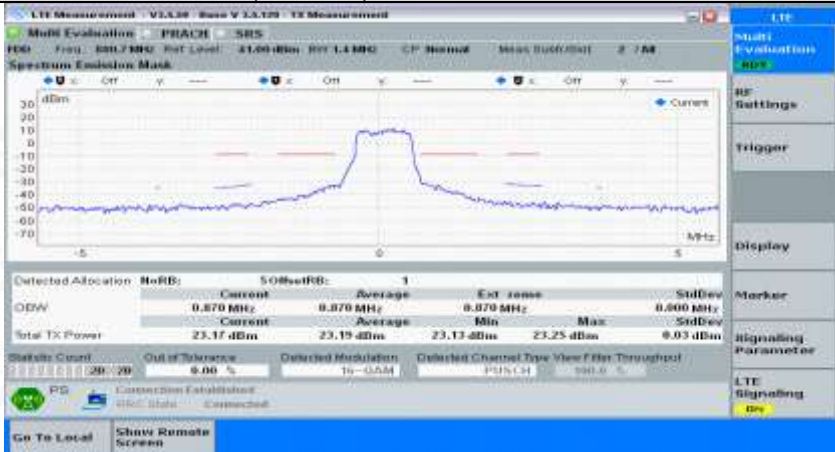
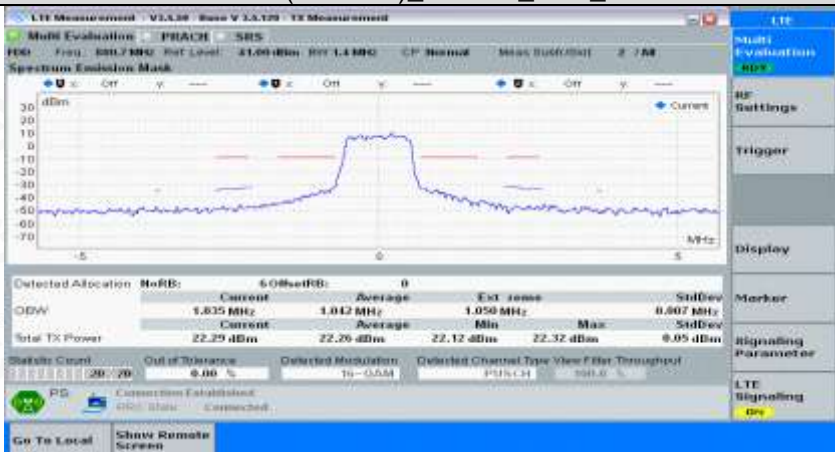


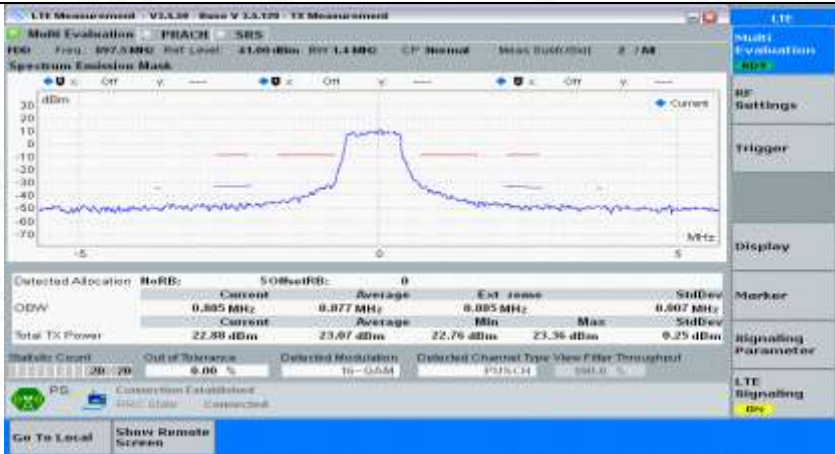
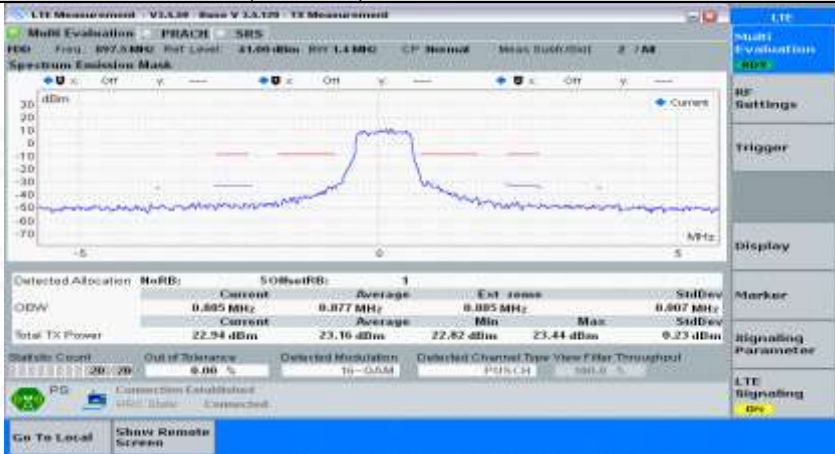
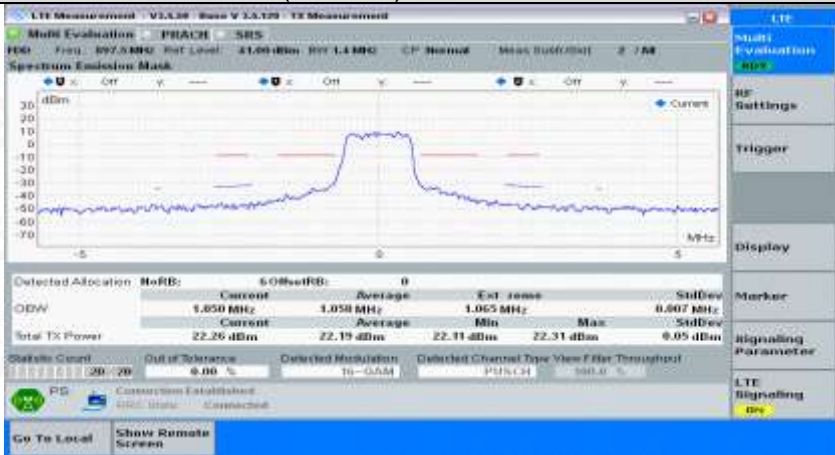
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QPSK



Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0

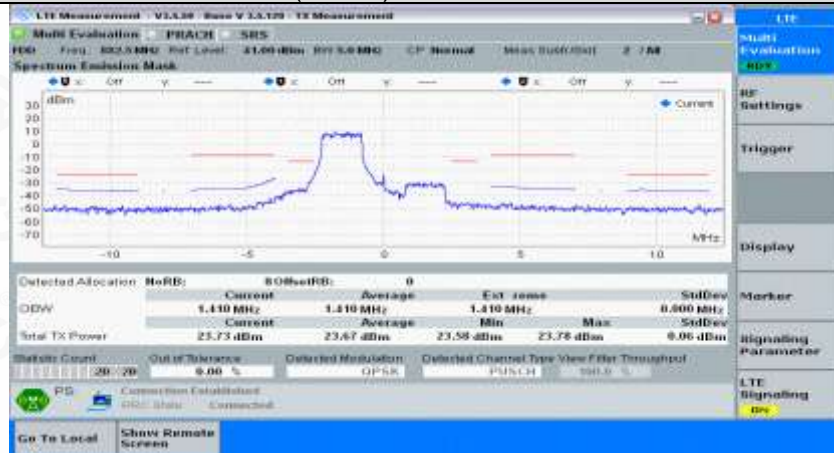
16QAM	
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	

Channel Bandwidth= (5 MHz)

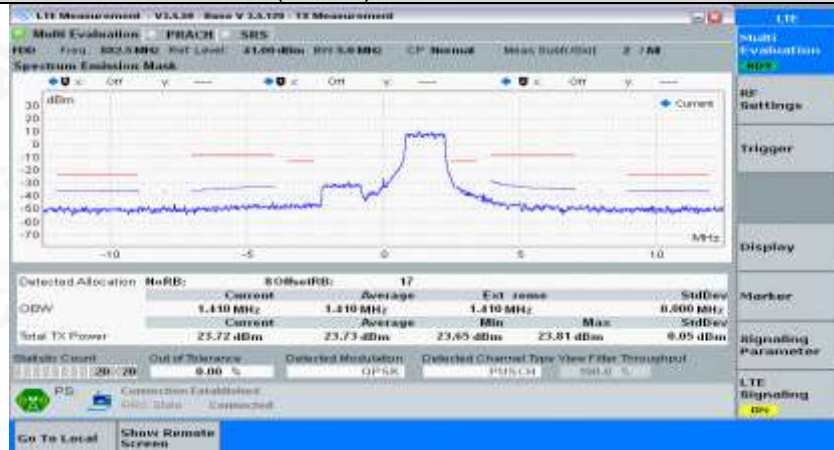
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QPSK



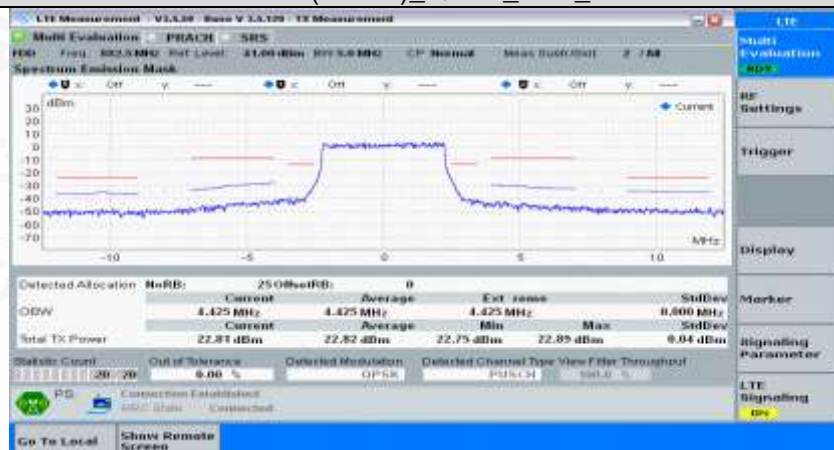
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QPSK



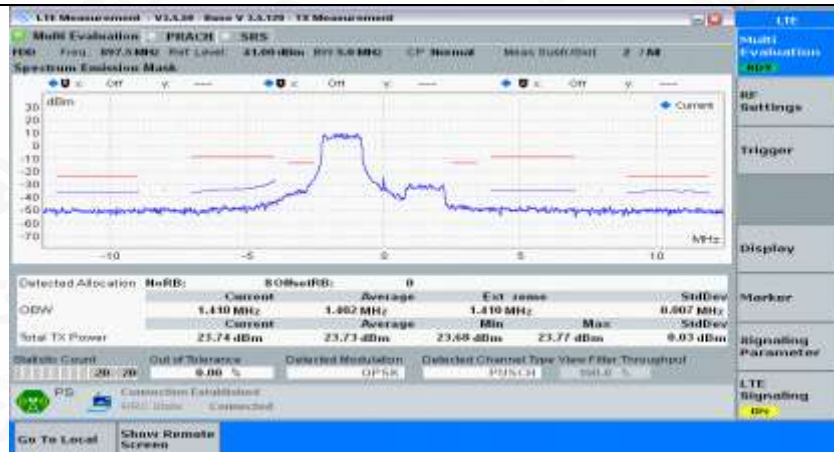
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QPSK



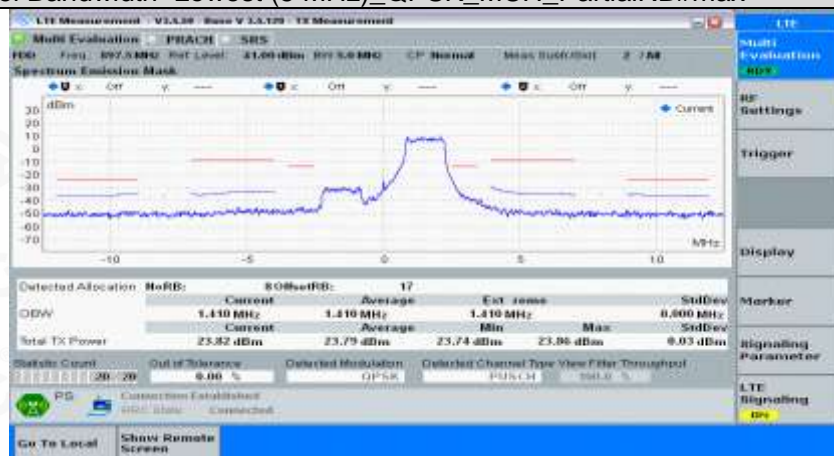
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QPSK



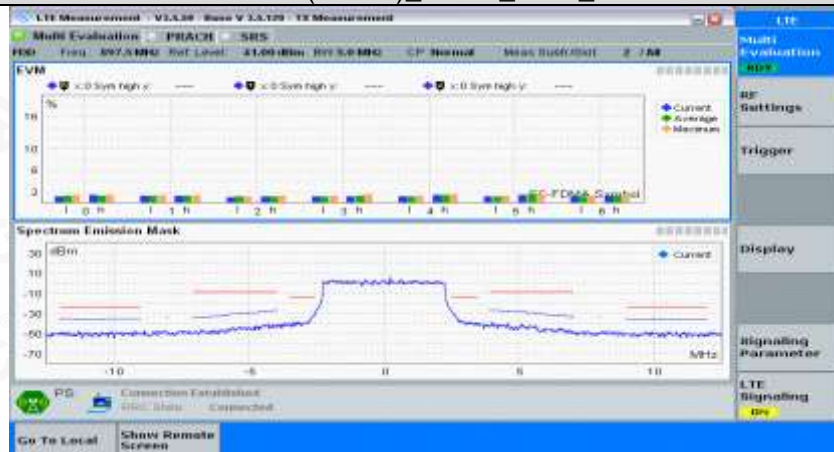
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QPSK

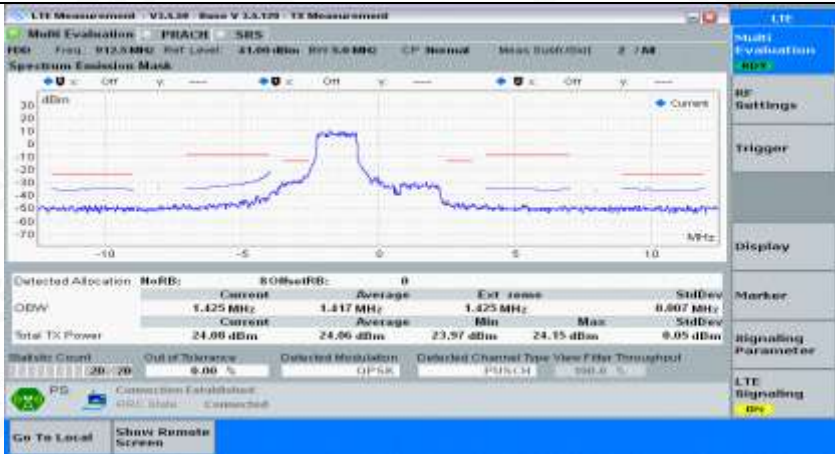
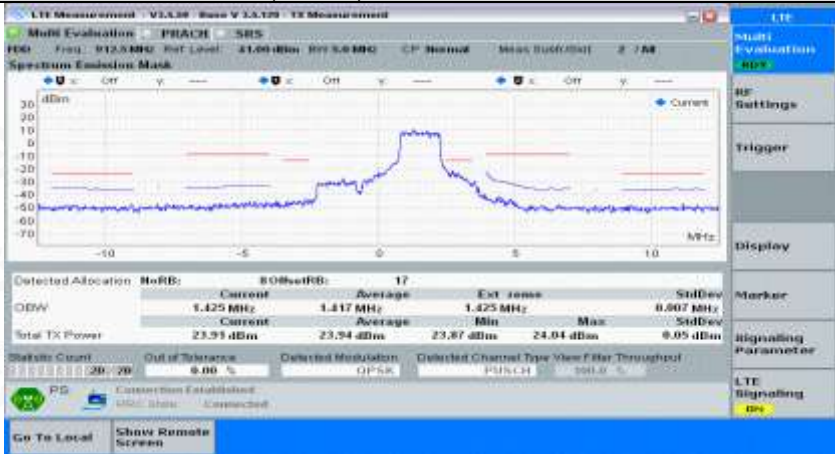
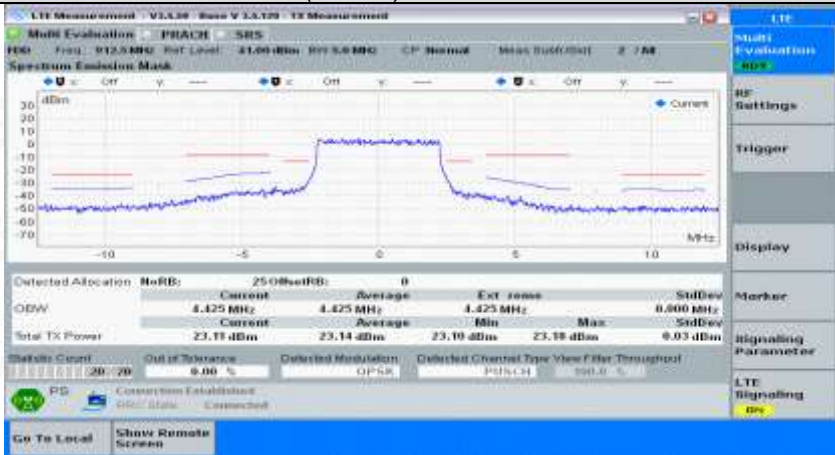


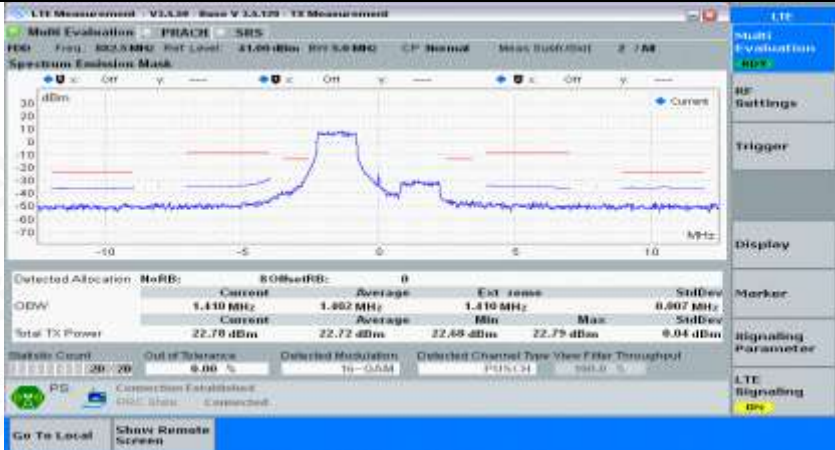
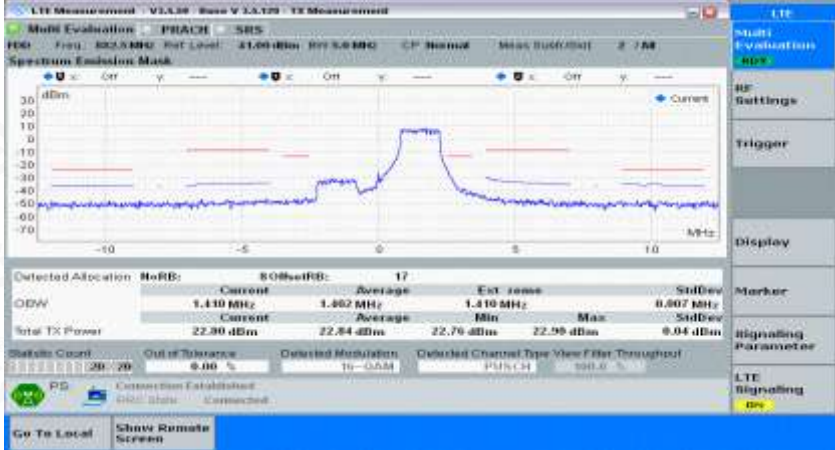
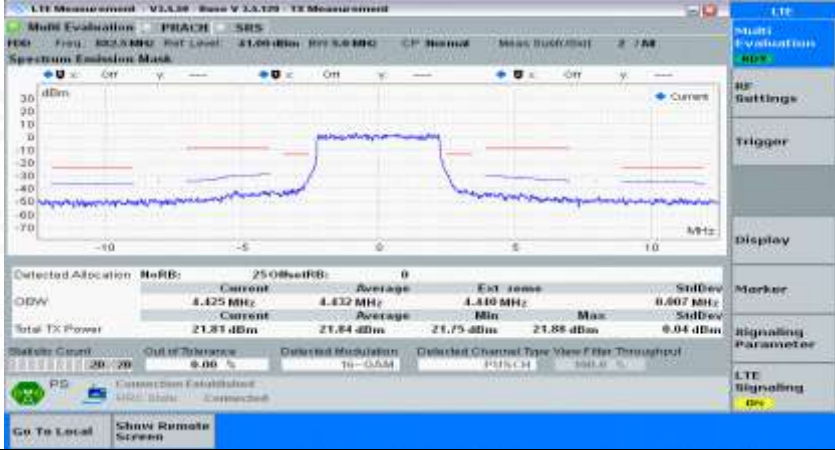
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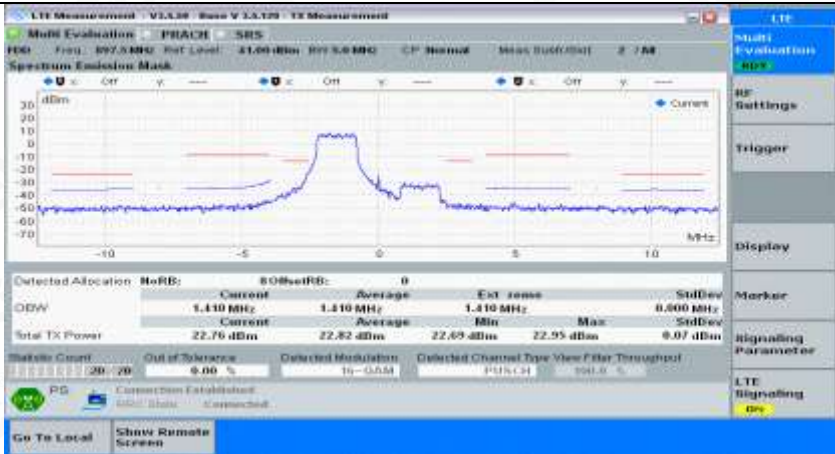
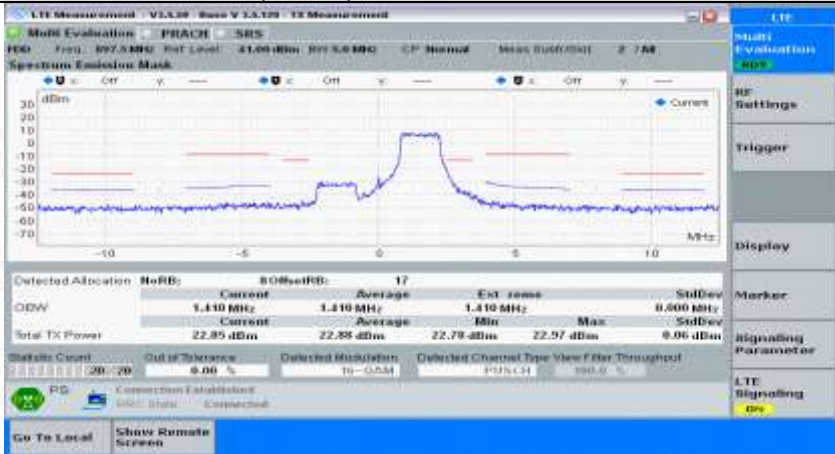
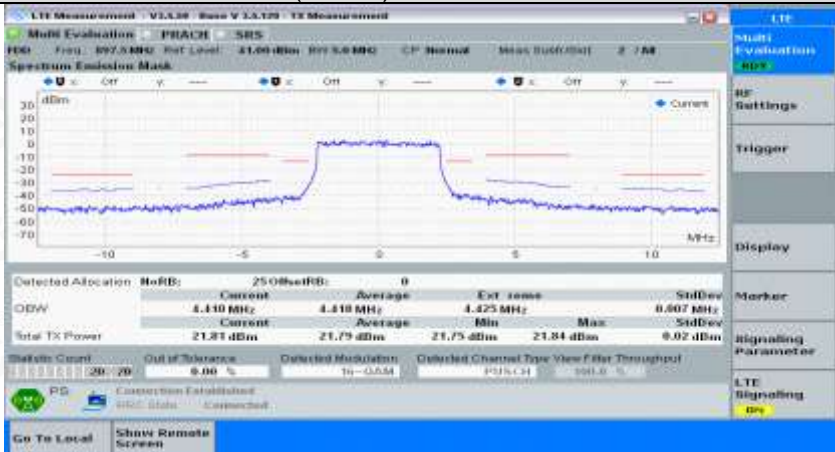
QPSK

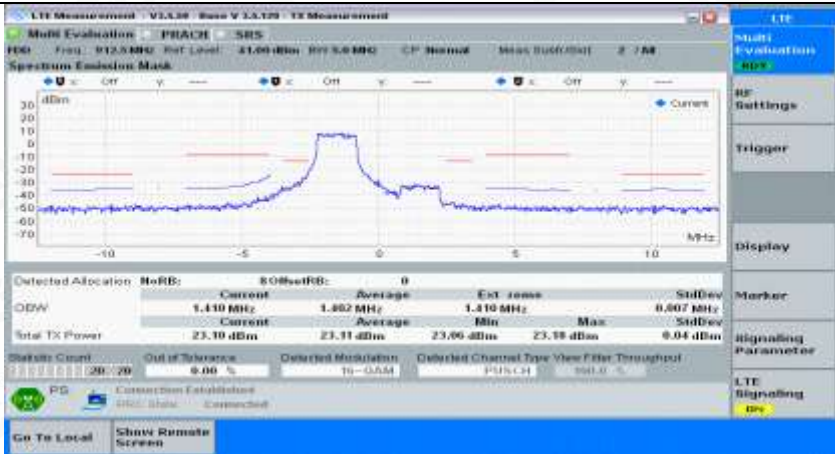
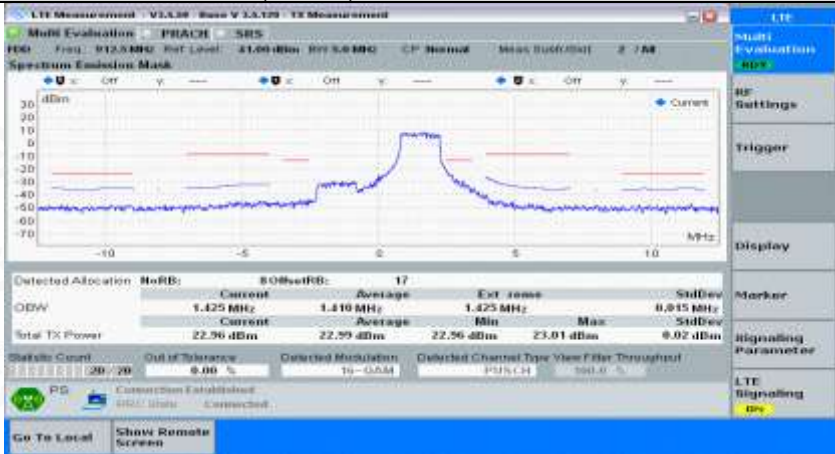
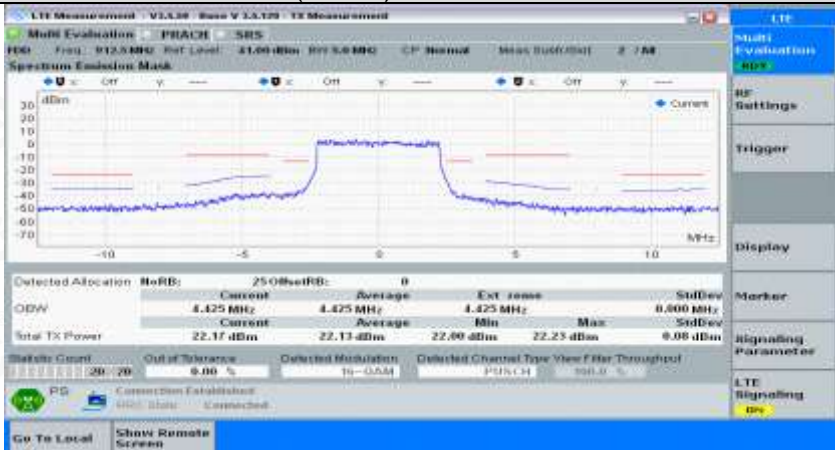


Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0

QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

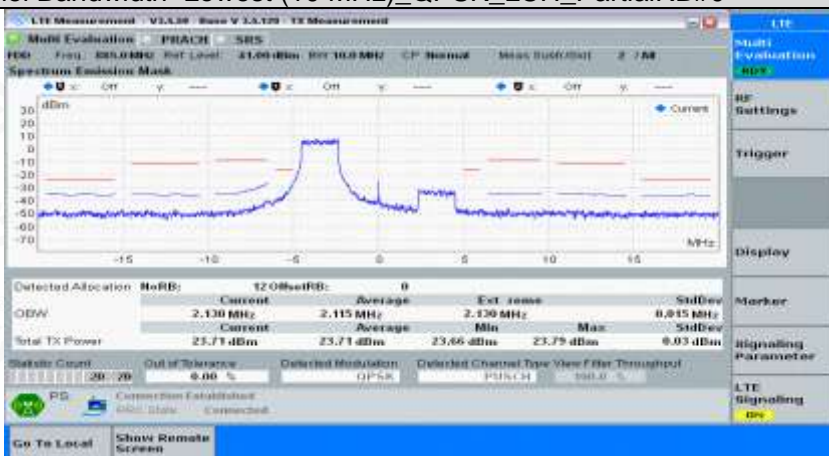
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
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Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

Channel Bandwidth=Highest (10 MHz)

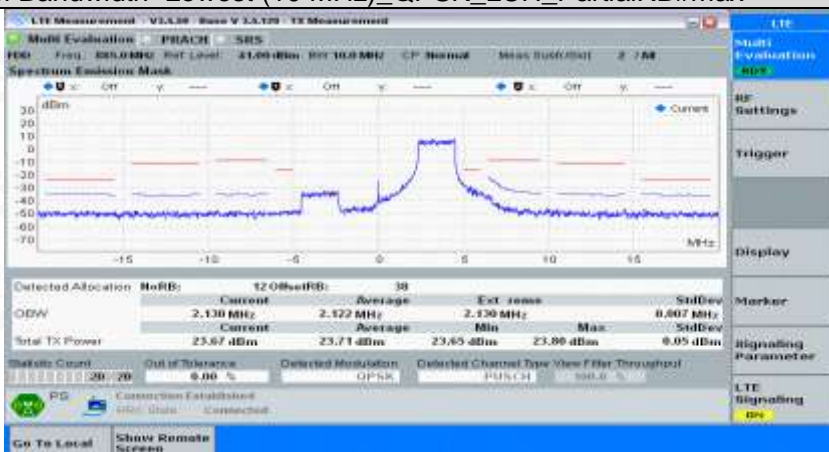
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QPSK



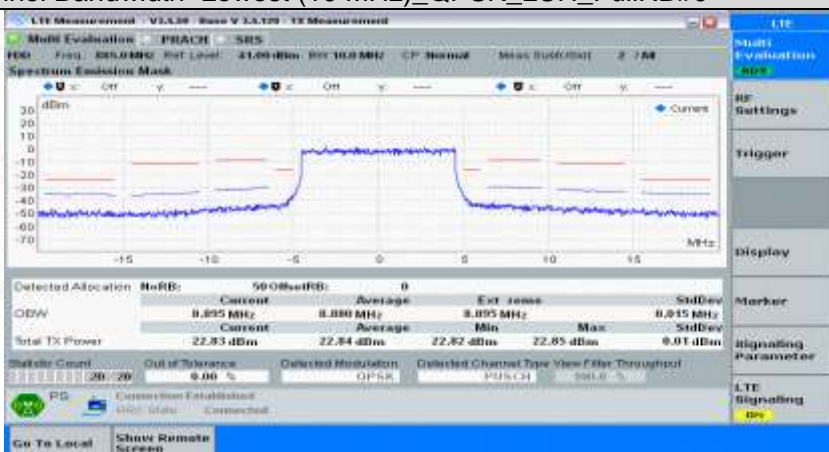
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QPSK

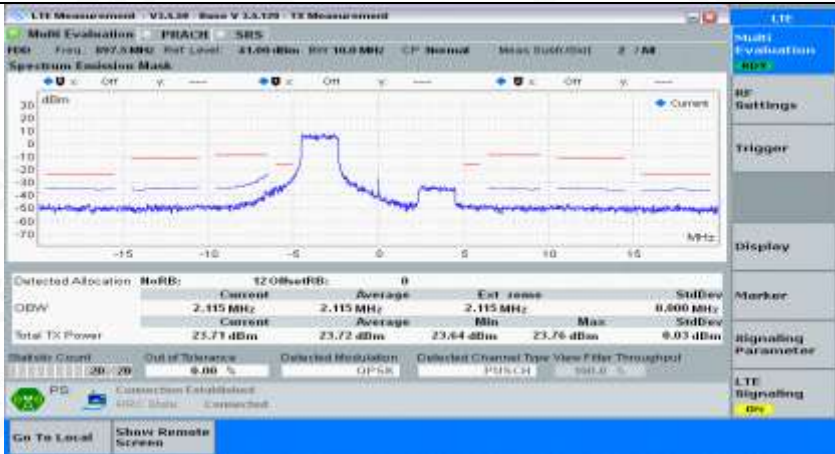
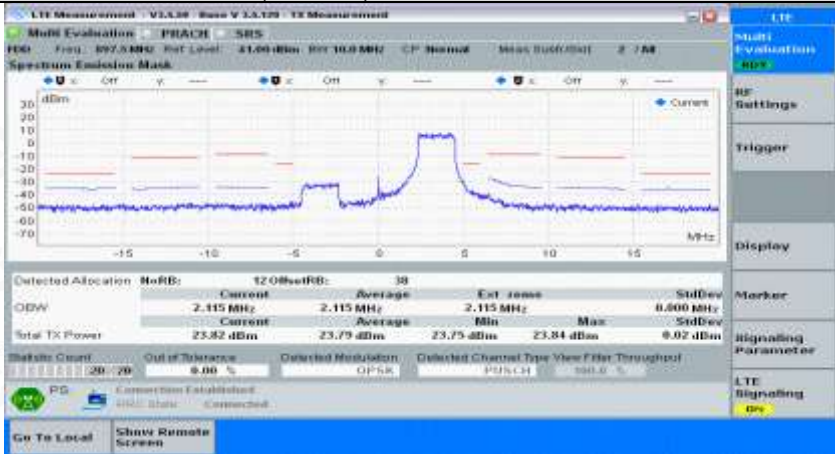



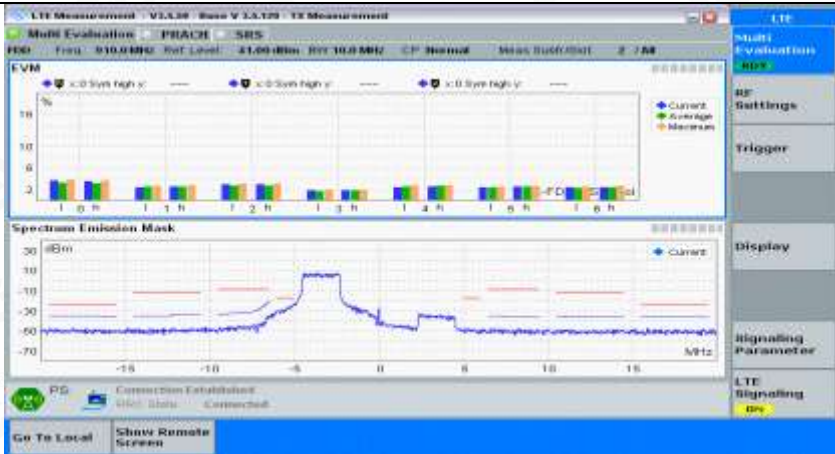
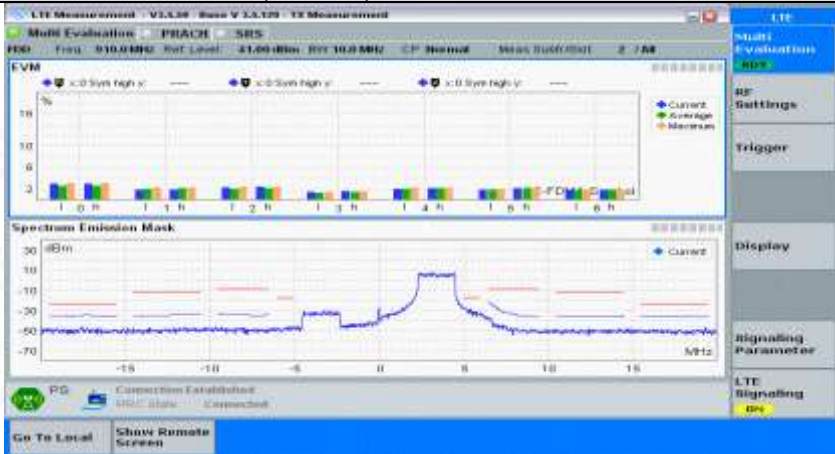

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

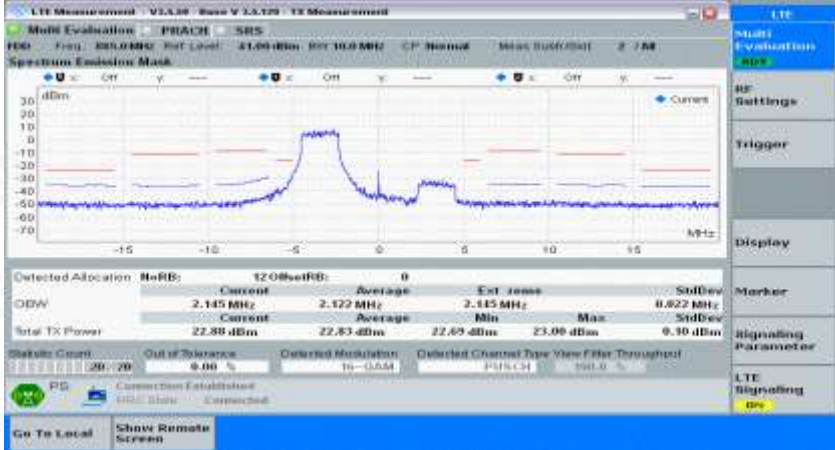
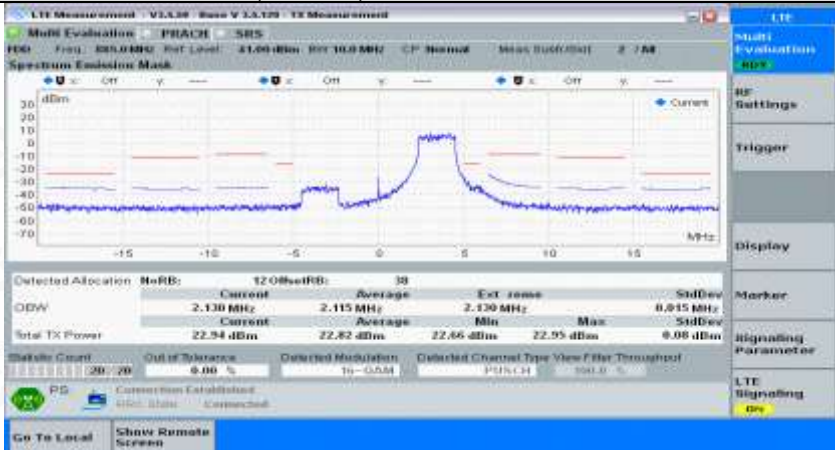
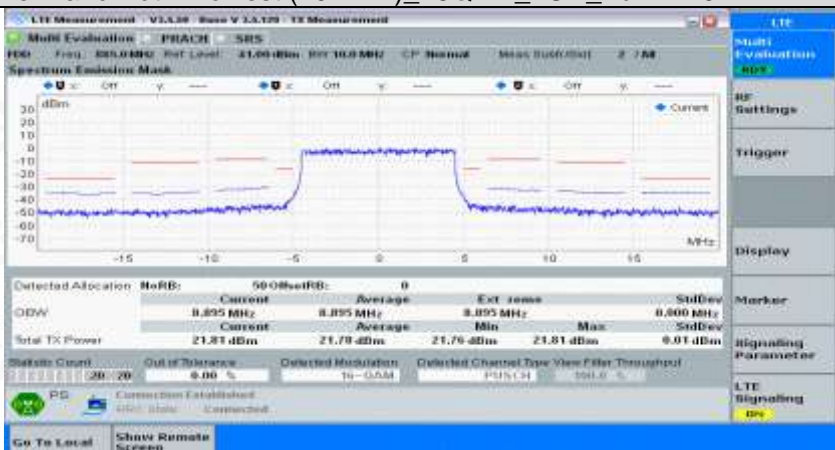
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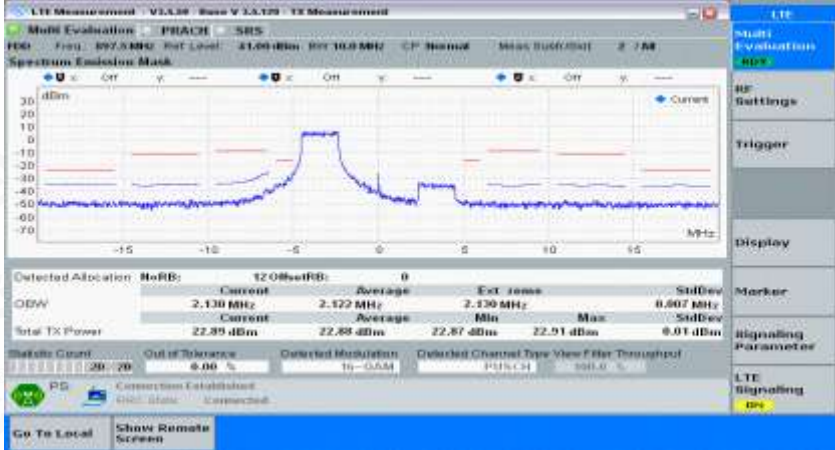
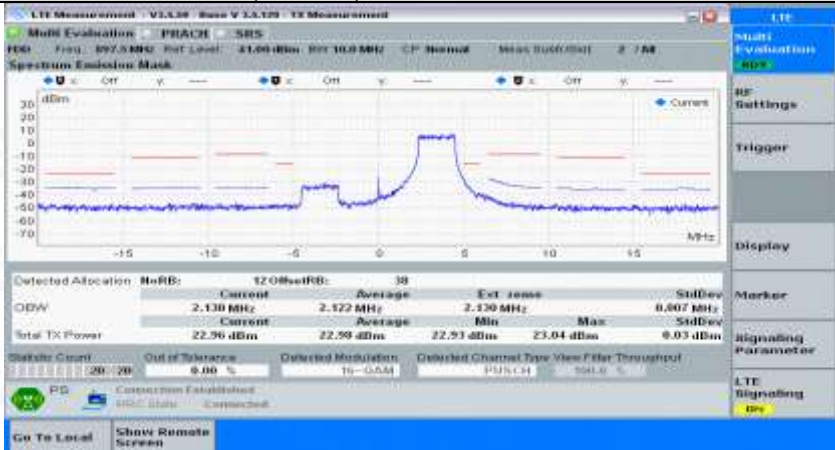
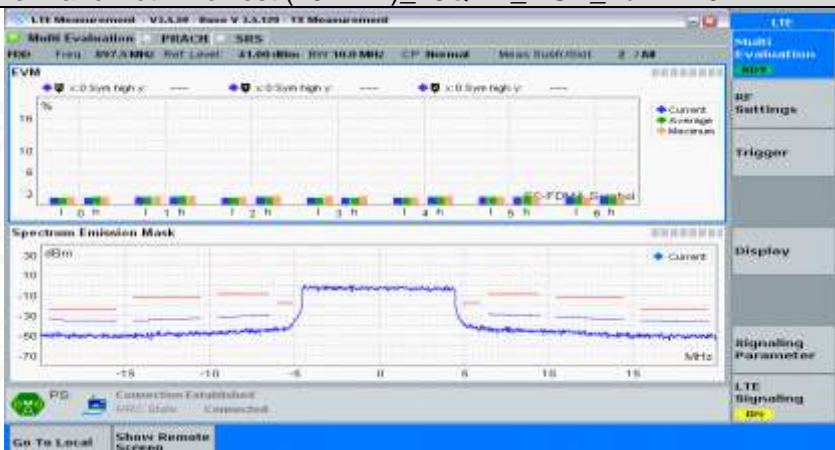


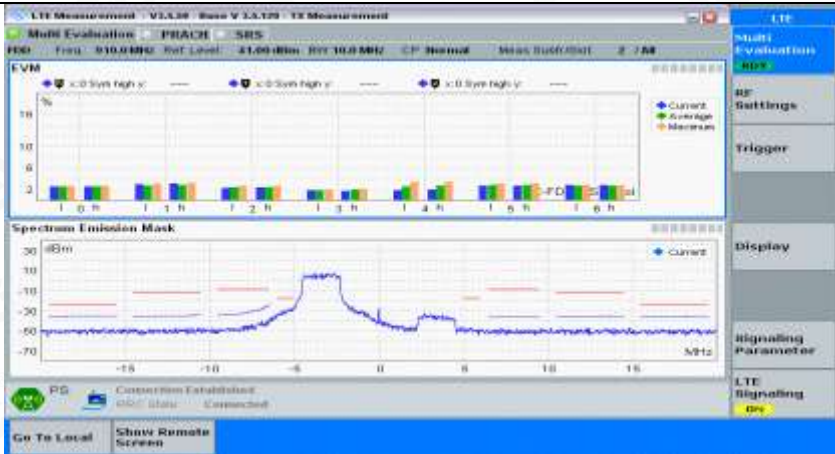
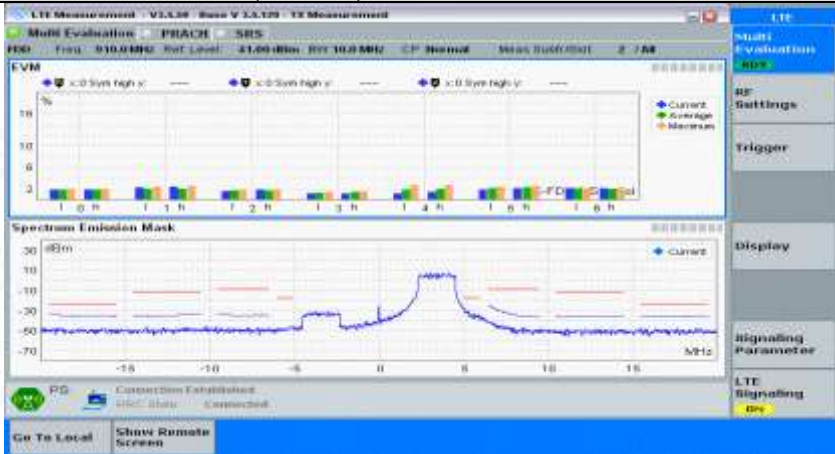
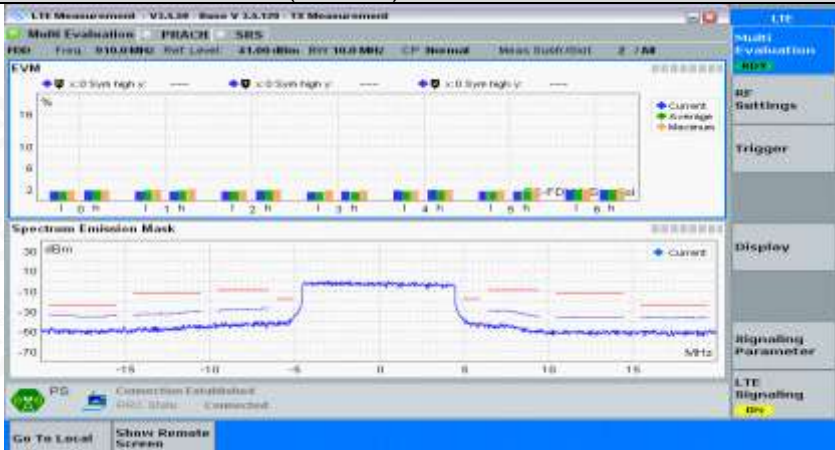
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QPSK	
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass



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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
					Full	0	PUMAX
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
					Full	0	PUMAX

Channel Bandwidth=Highest (10 MHz)




Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#0	



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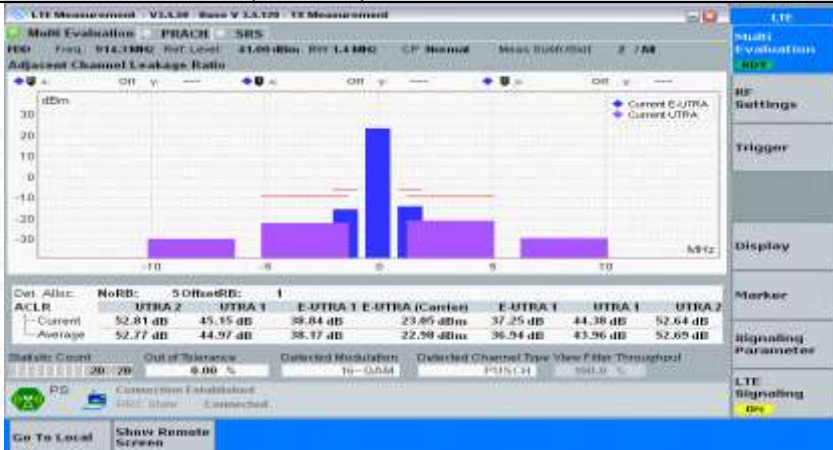

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QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max		
QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0		
QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0		

16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	

16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0</p>

16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

Channel Bandwidth= (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max

QPSK






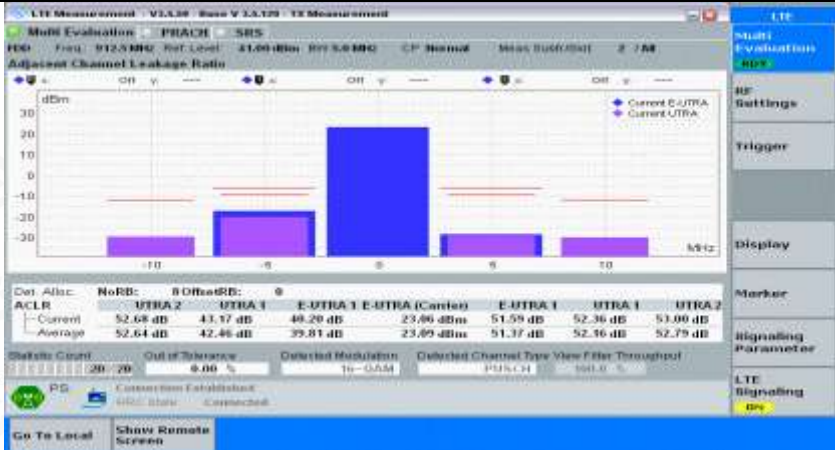
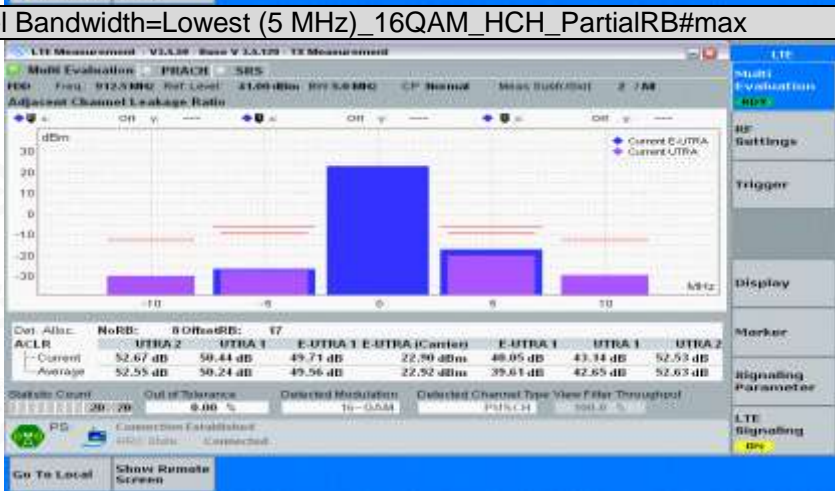
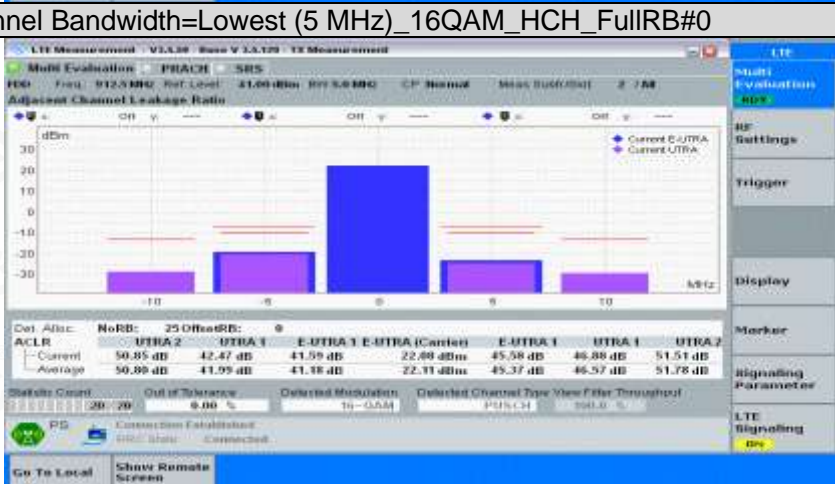
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0

QPSK

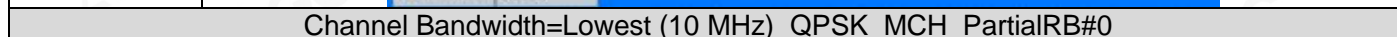
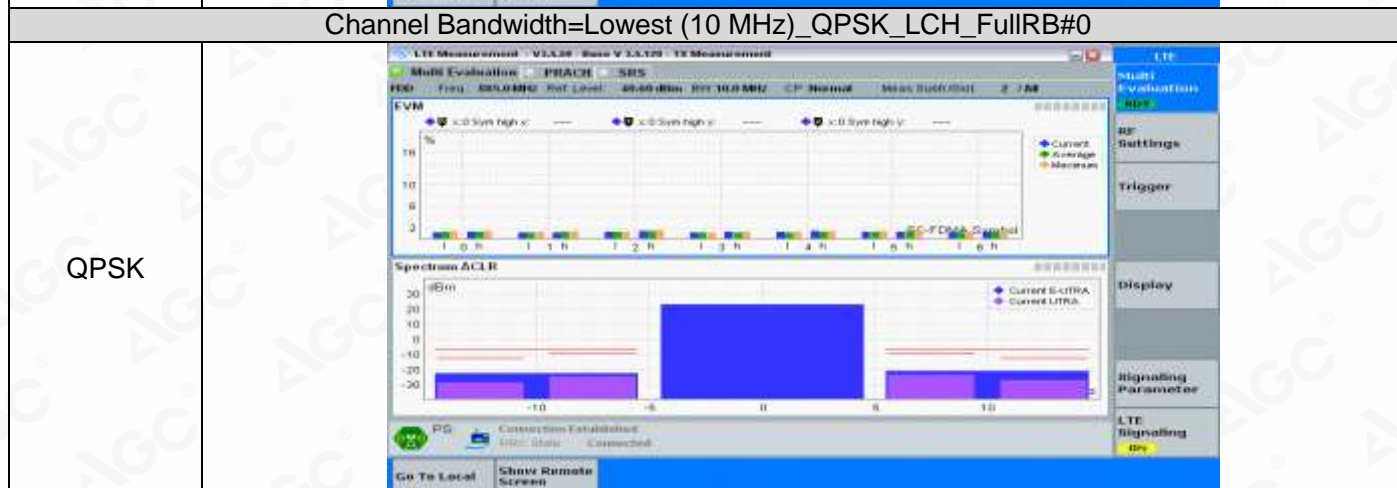
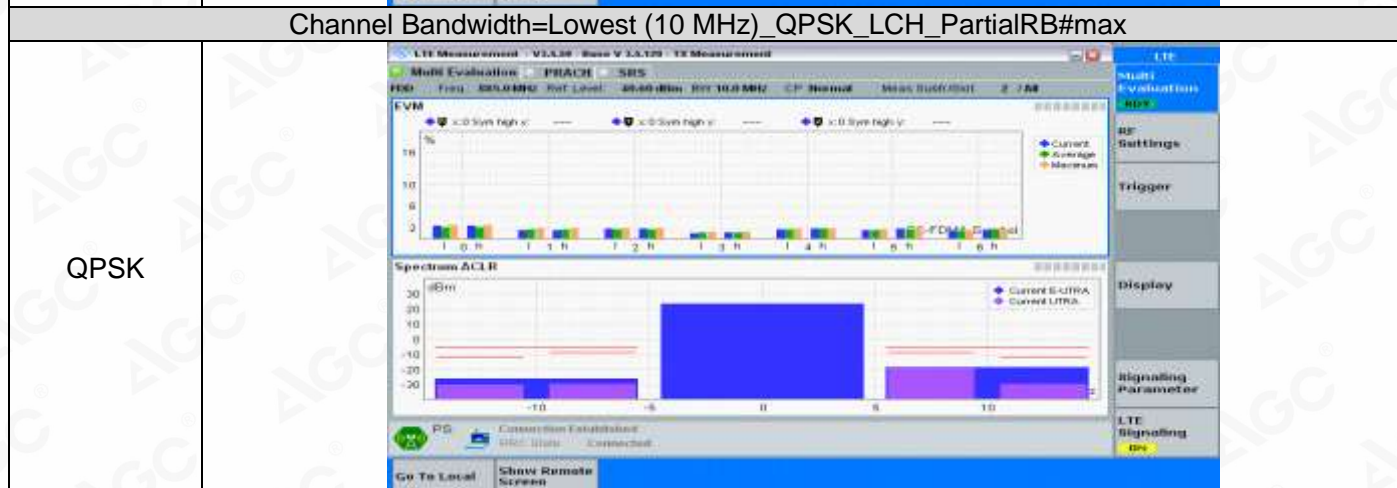
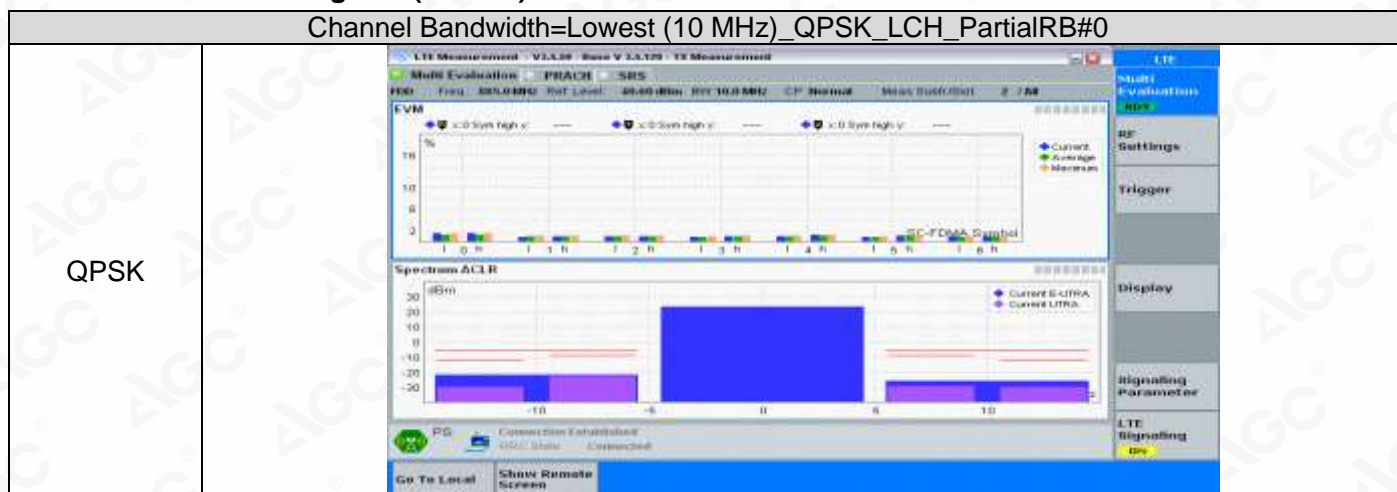





Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0

16QAM		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max		
16QAM		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0		
16QAM		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0		




16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

Channel Bandwidth=Highest (10 MHz)




QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0		
16QAM		<div>LTE</div> <div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0		

16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



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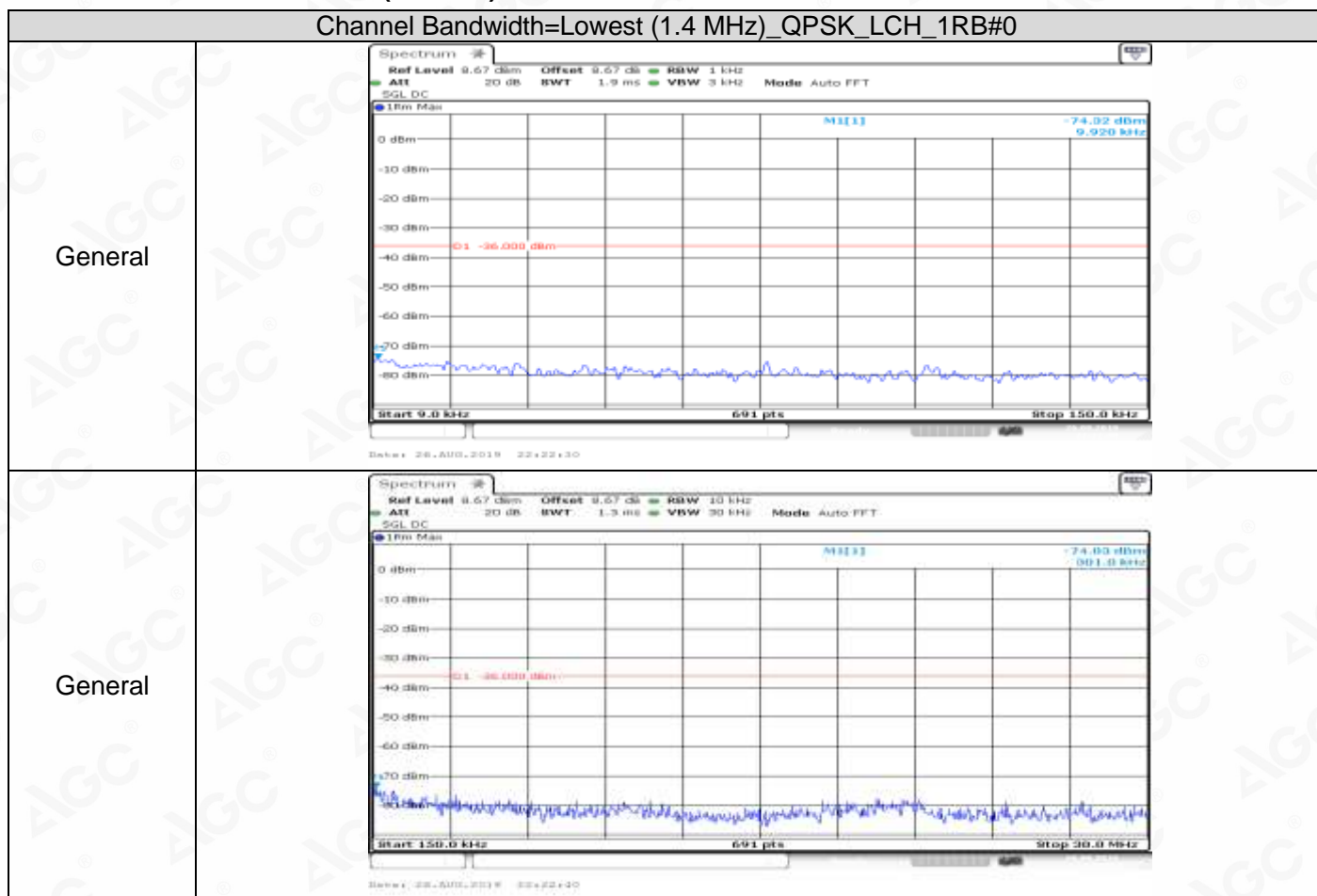
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			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Test Graphs

NTNV

Channel Bandwidth=Lowest (1.4 MHz)



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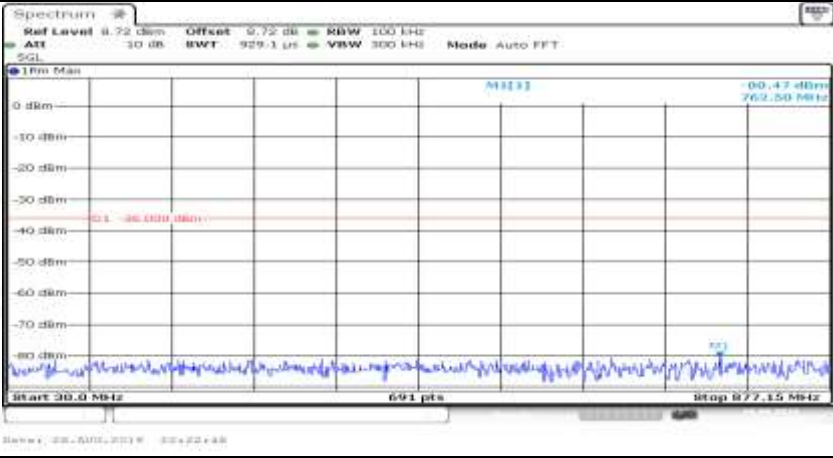
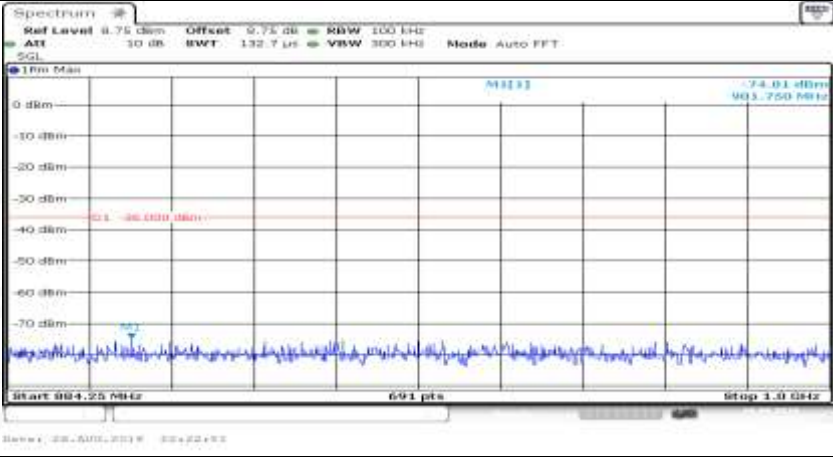
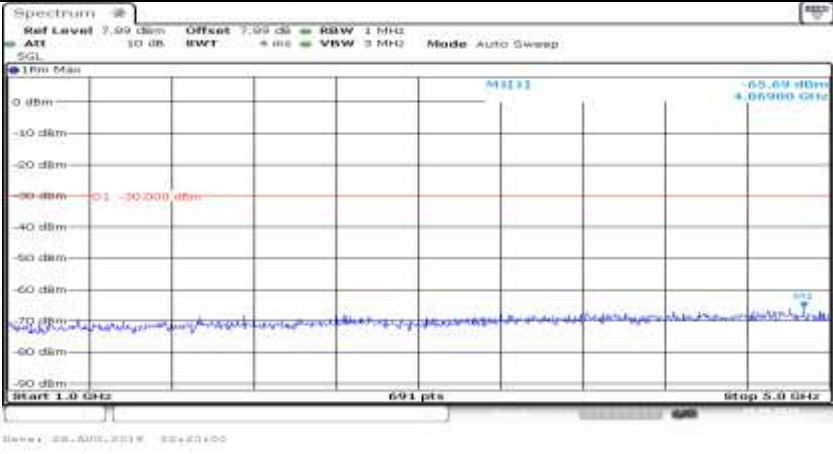
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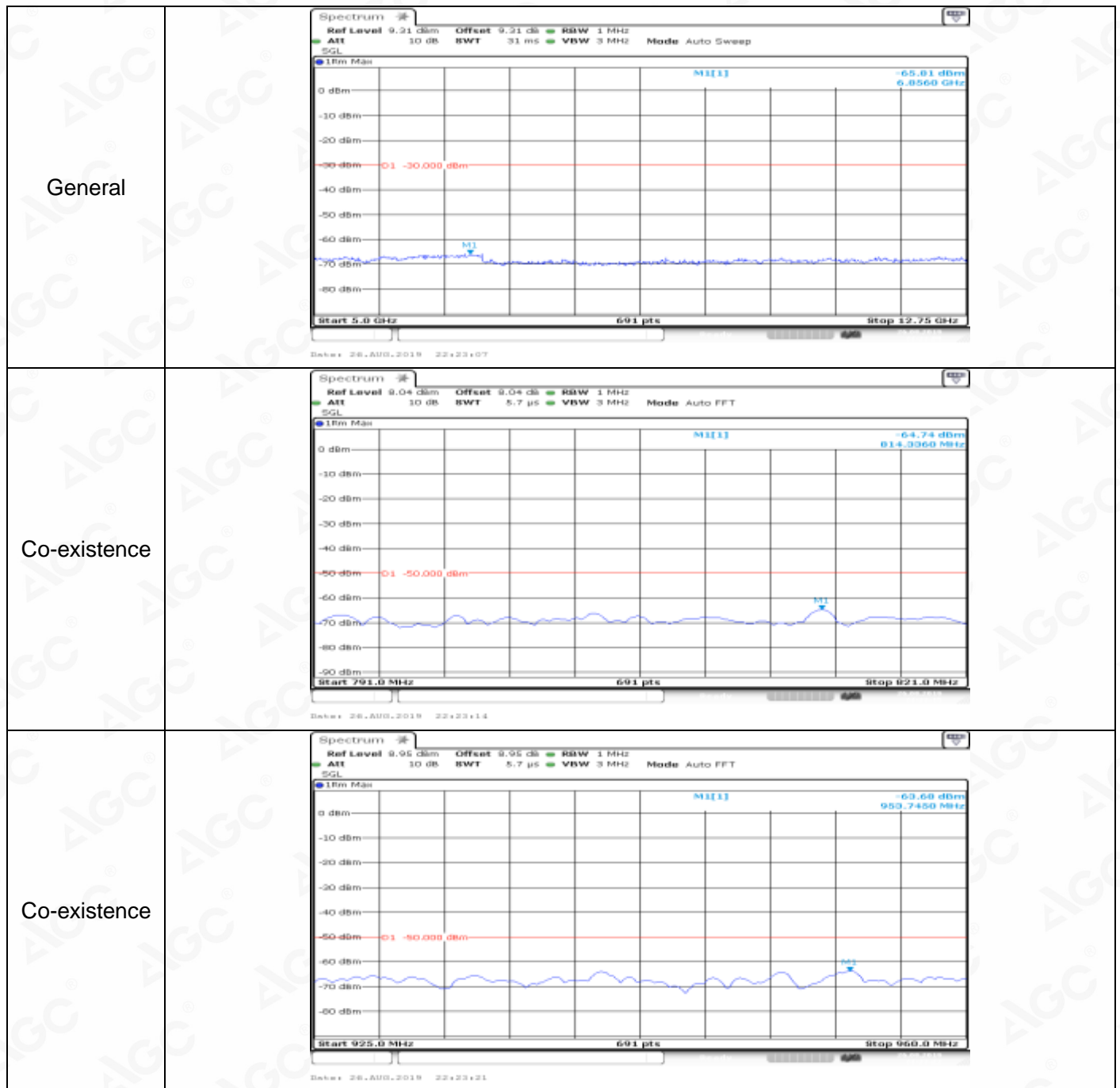
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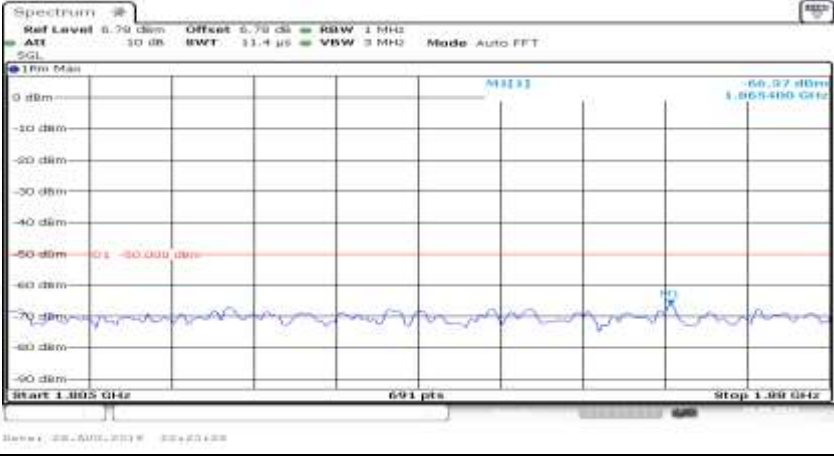
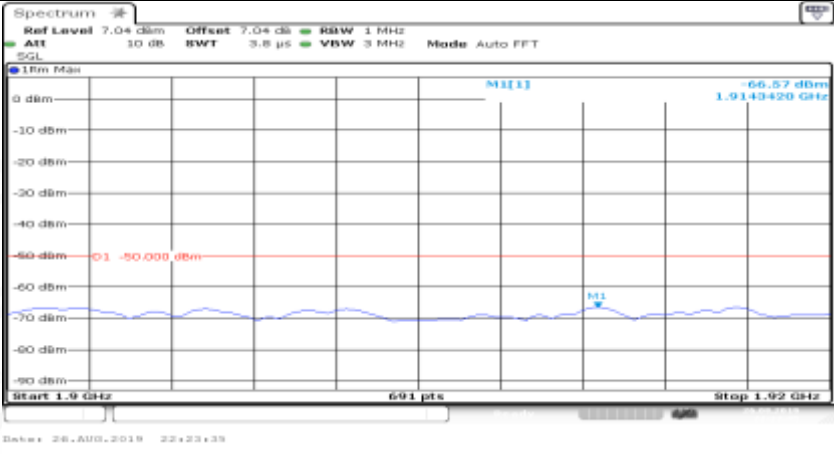
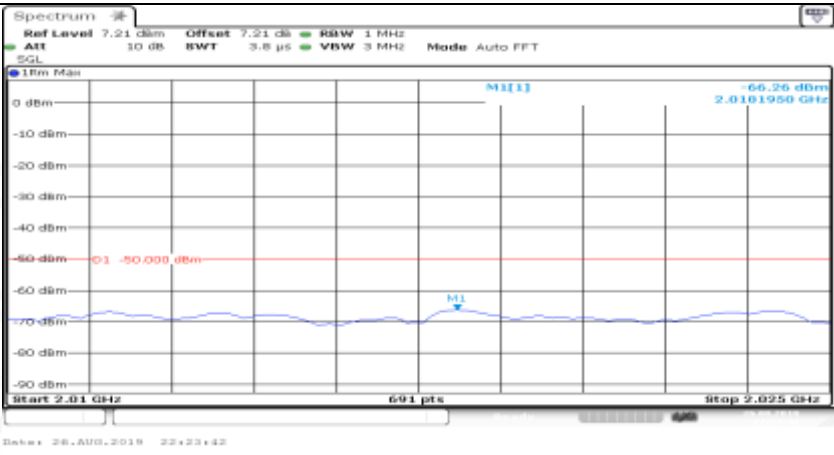
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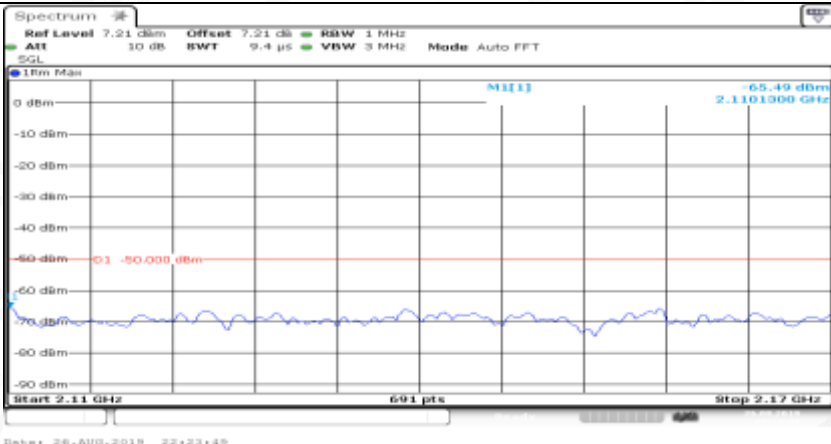
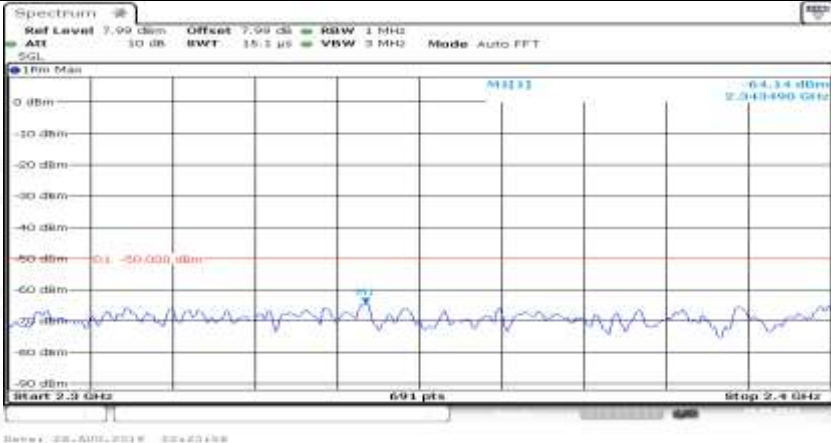
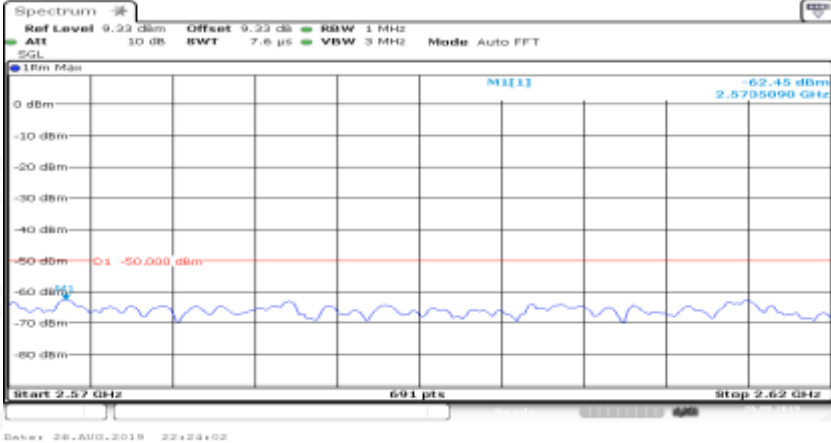
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General	
General	
General	

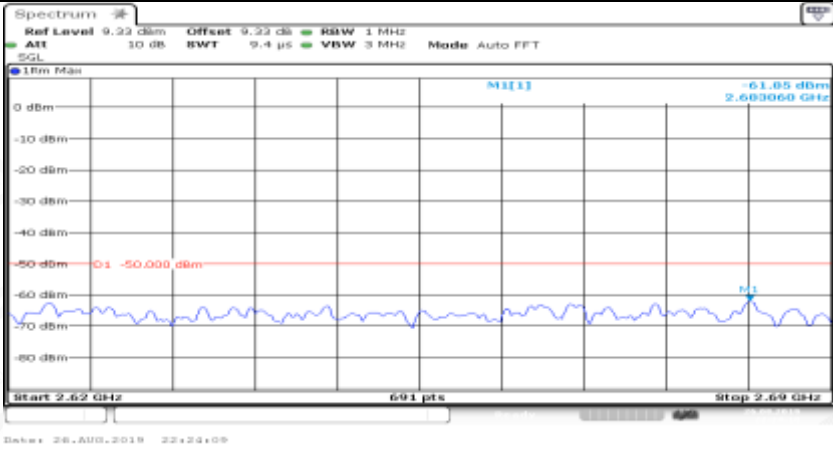
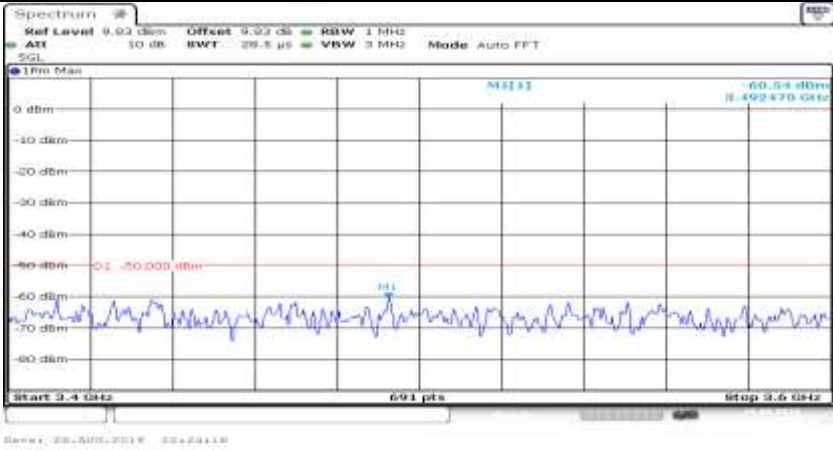
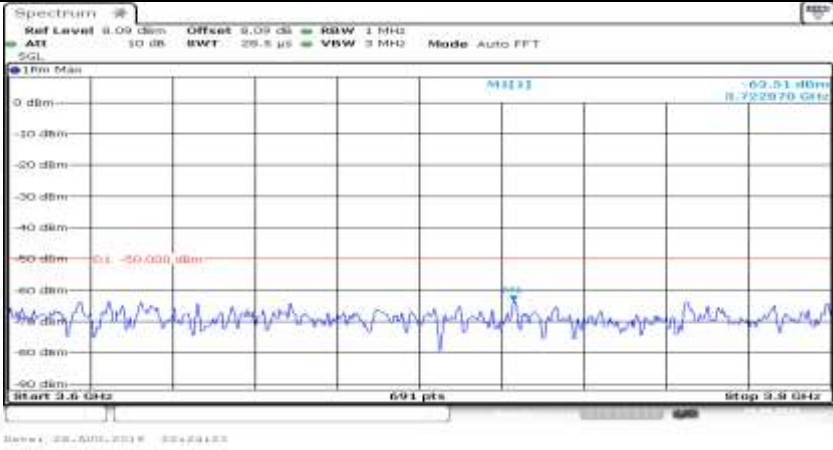




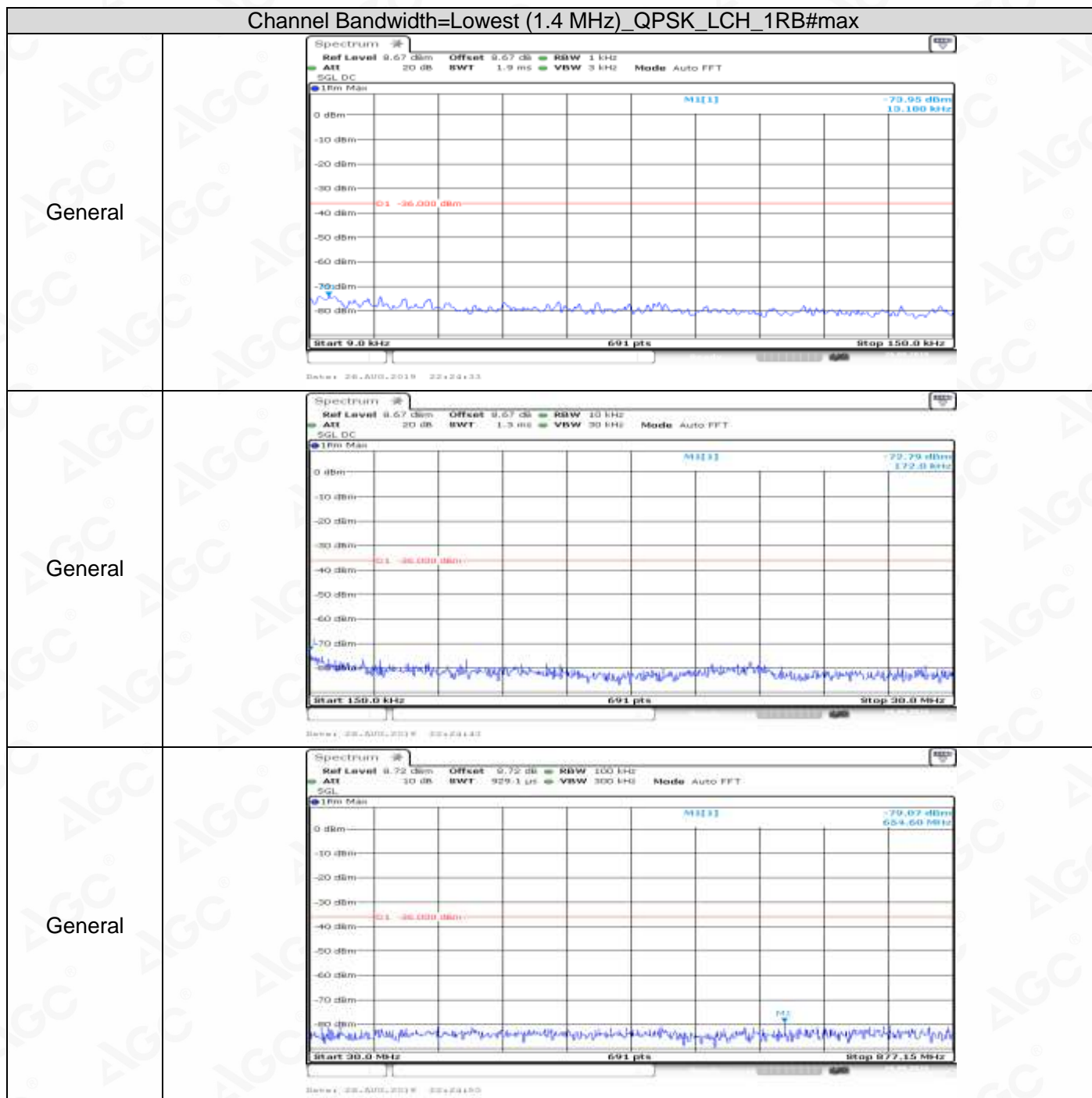
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Co-existence	
Co-existence	

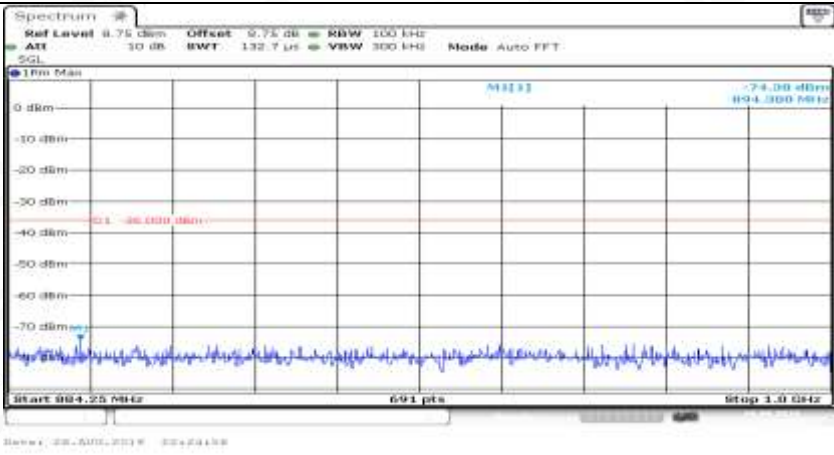
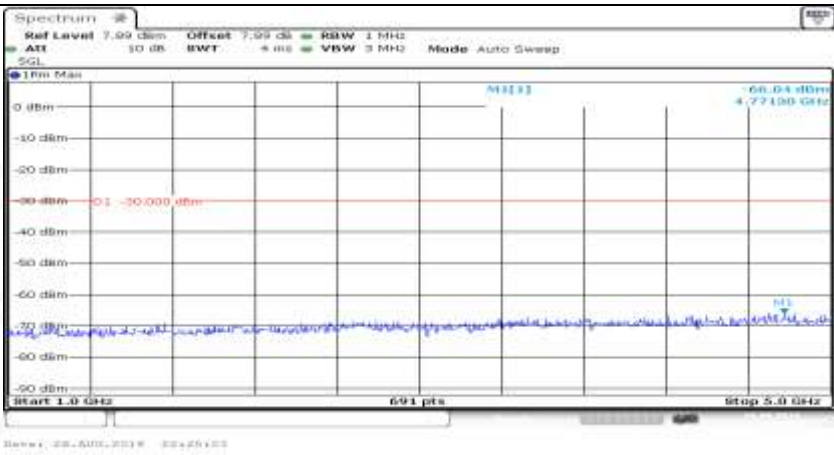
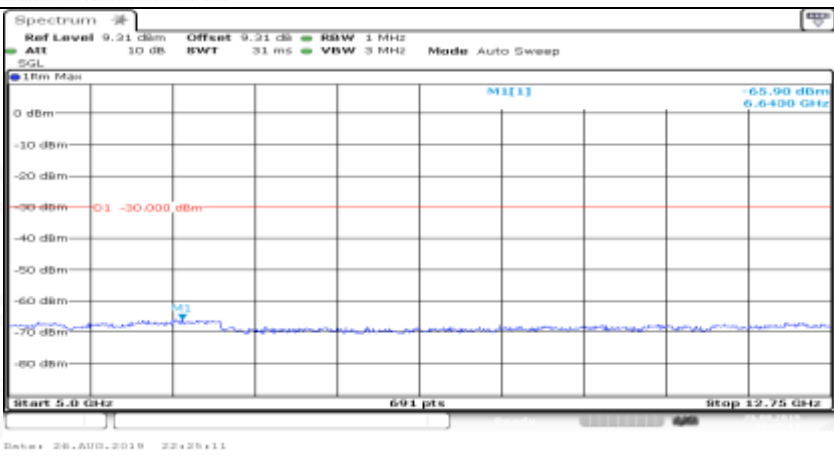
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Co-existence	
Co-existence	



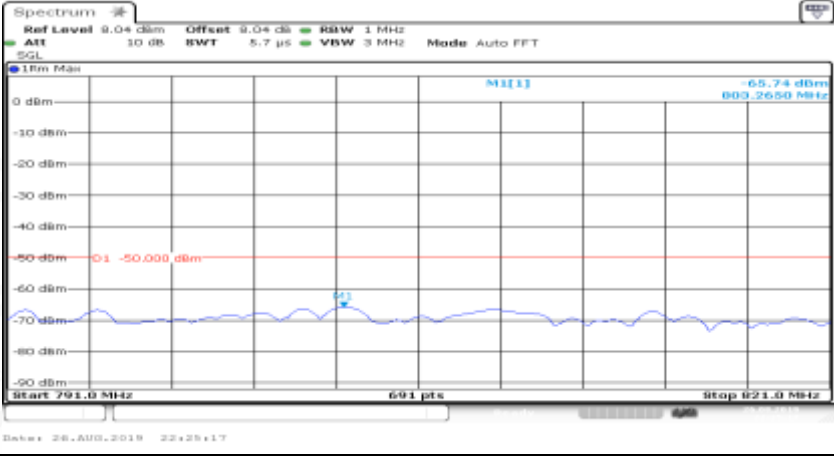
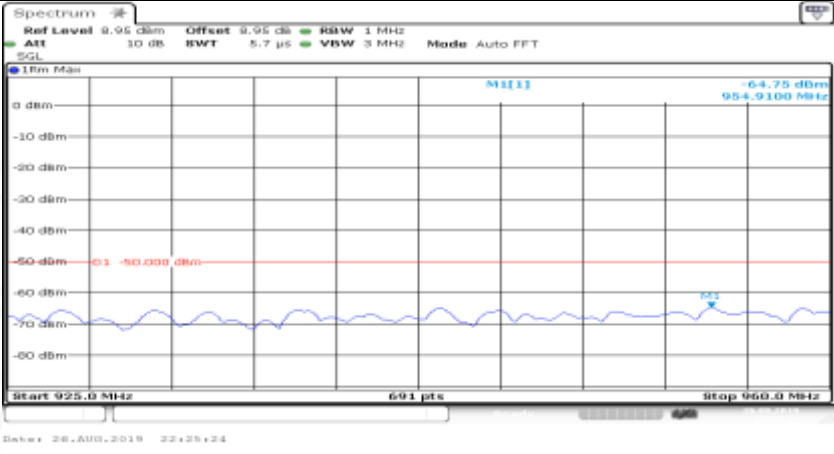

Co-existence	
Co-existence	
Co-existence	
Additional	NA

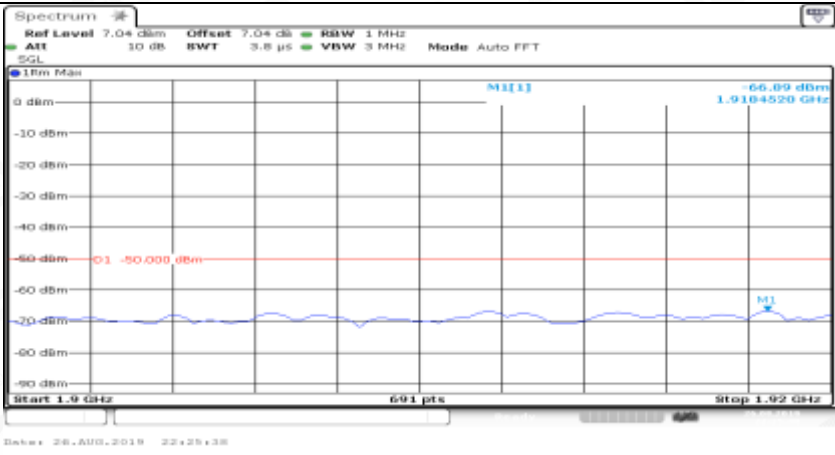
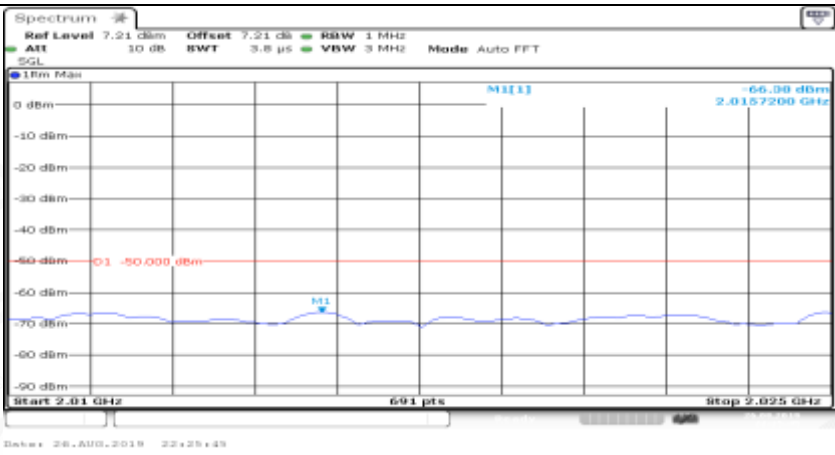
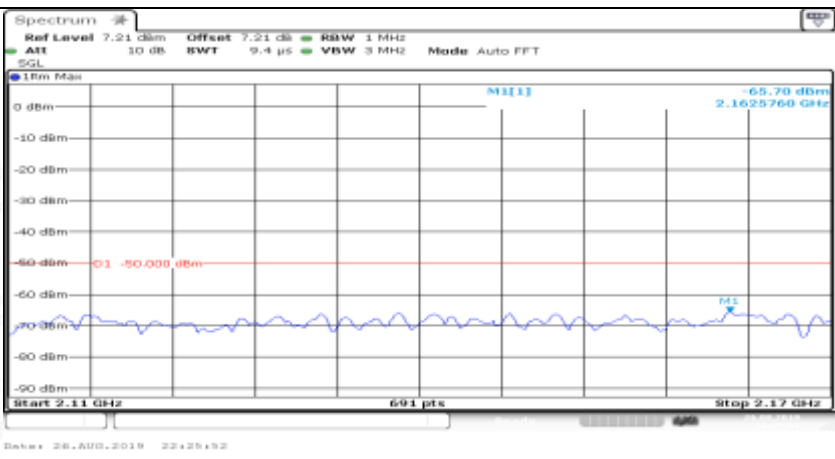
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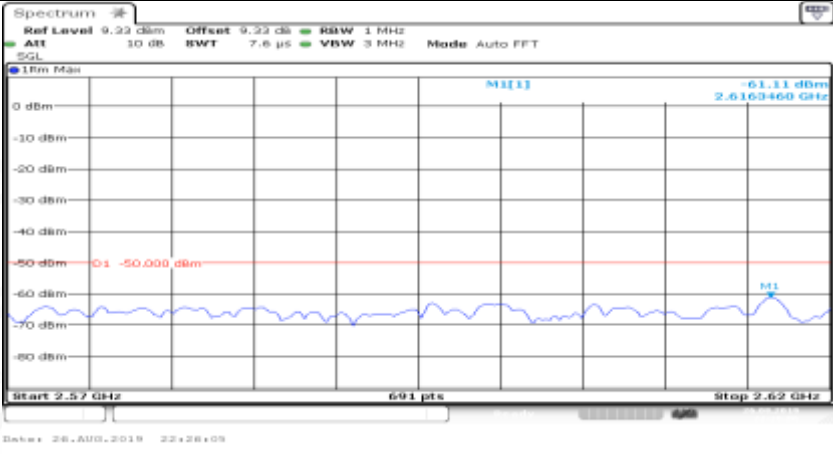
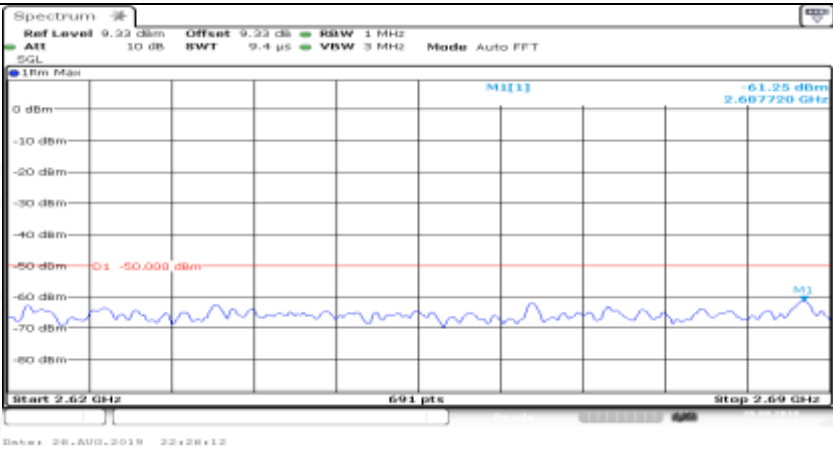


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General	

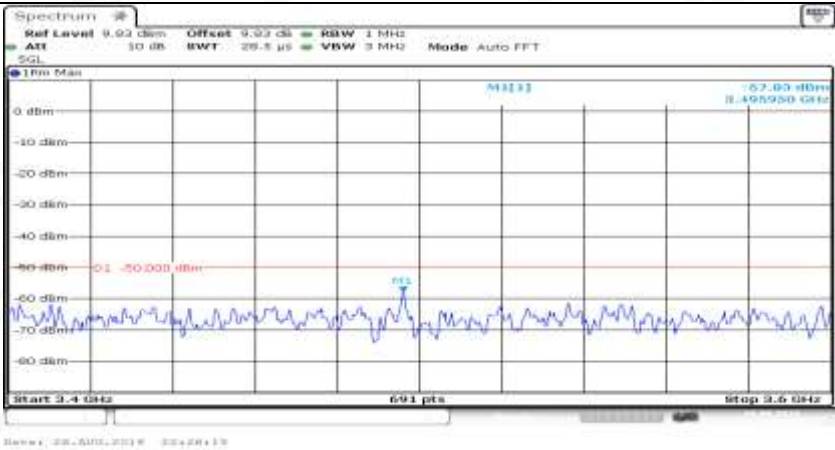
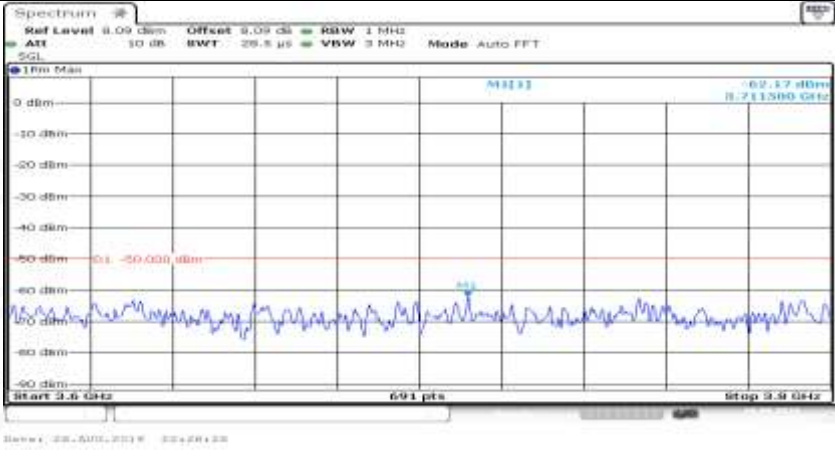


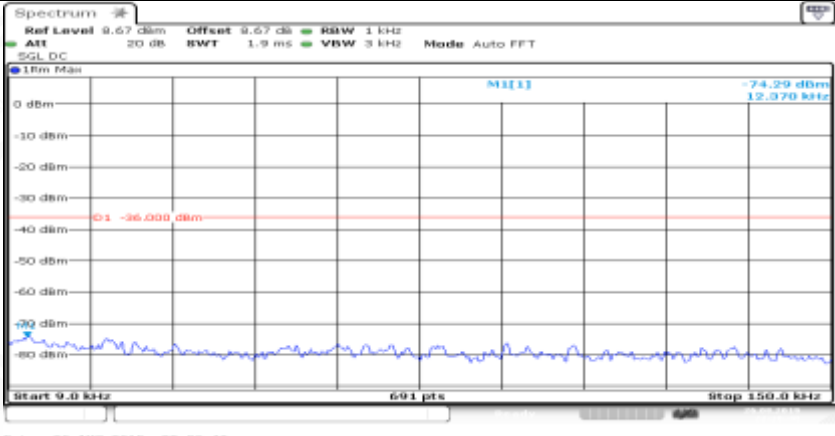
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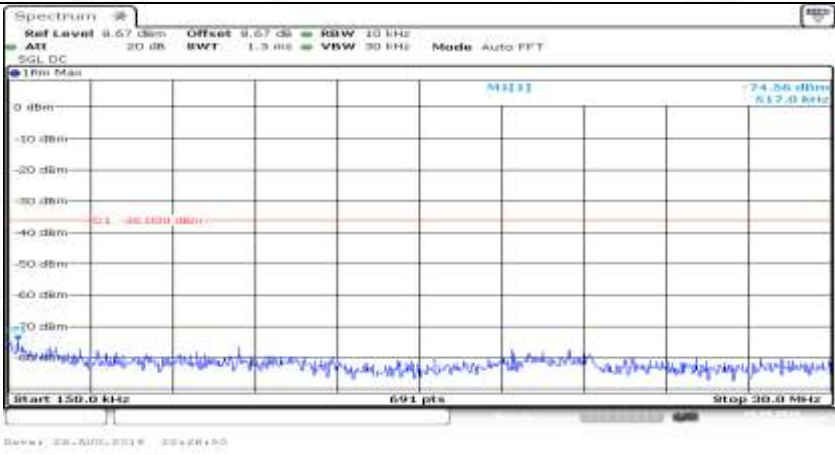

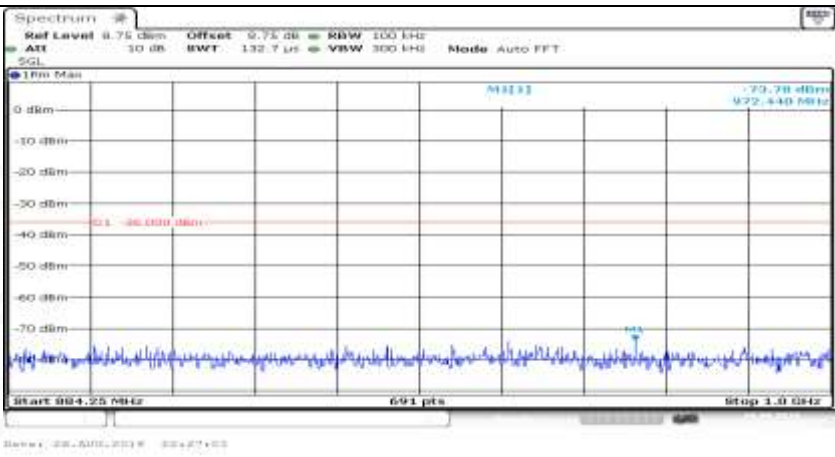
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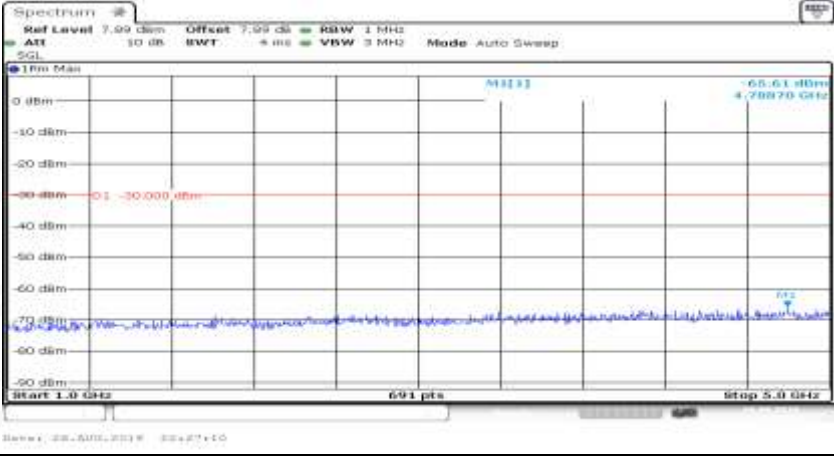
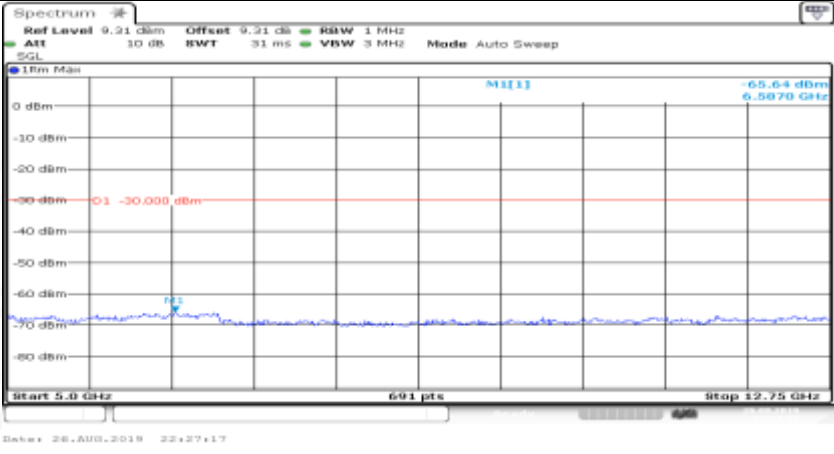
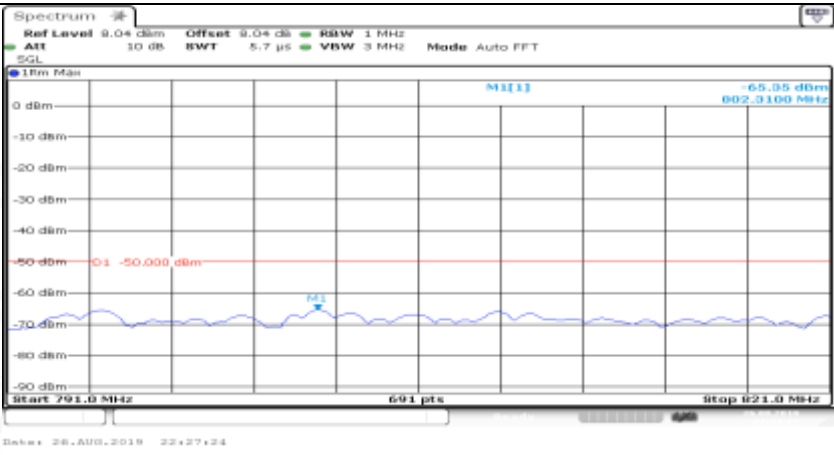
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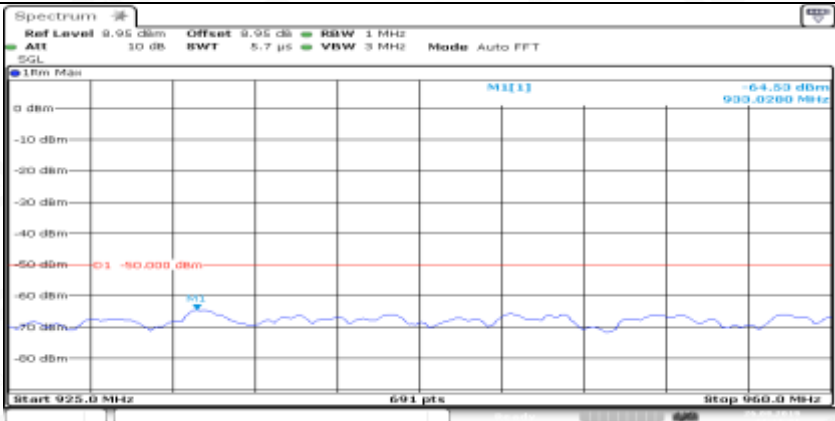

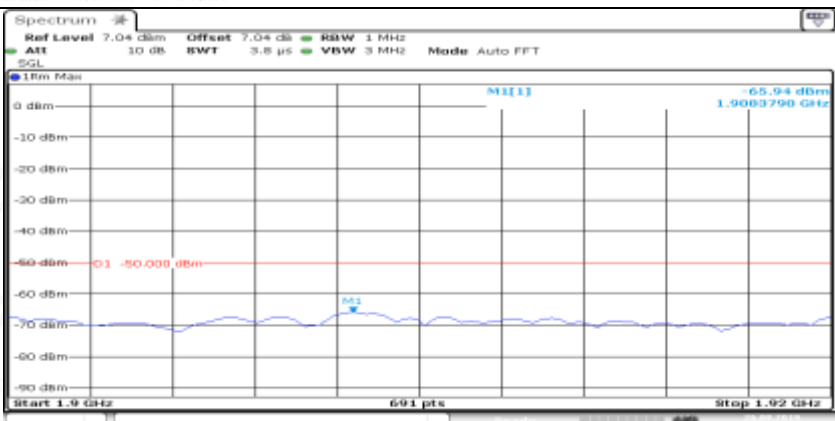


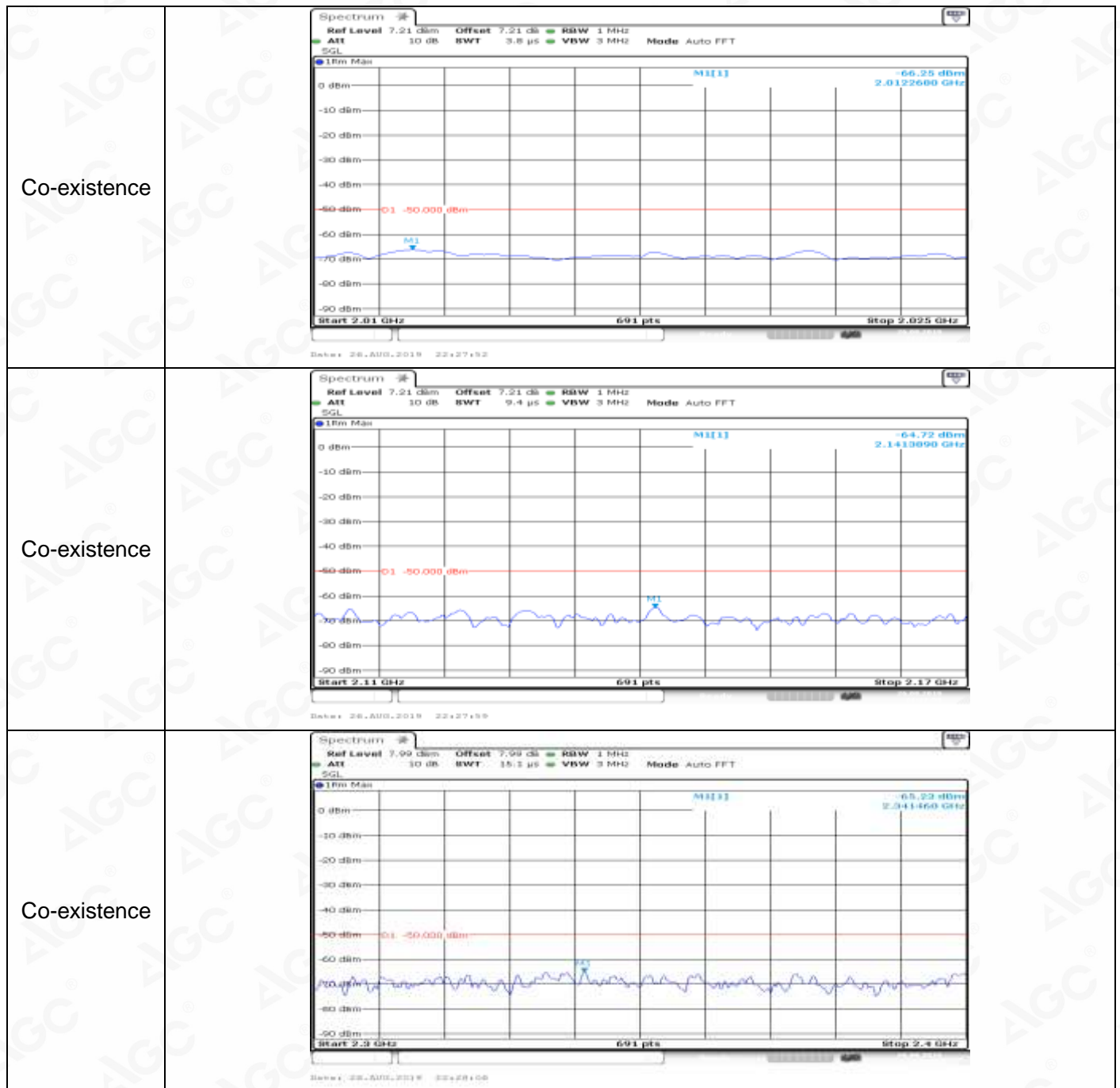
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Additional	NA

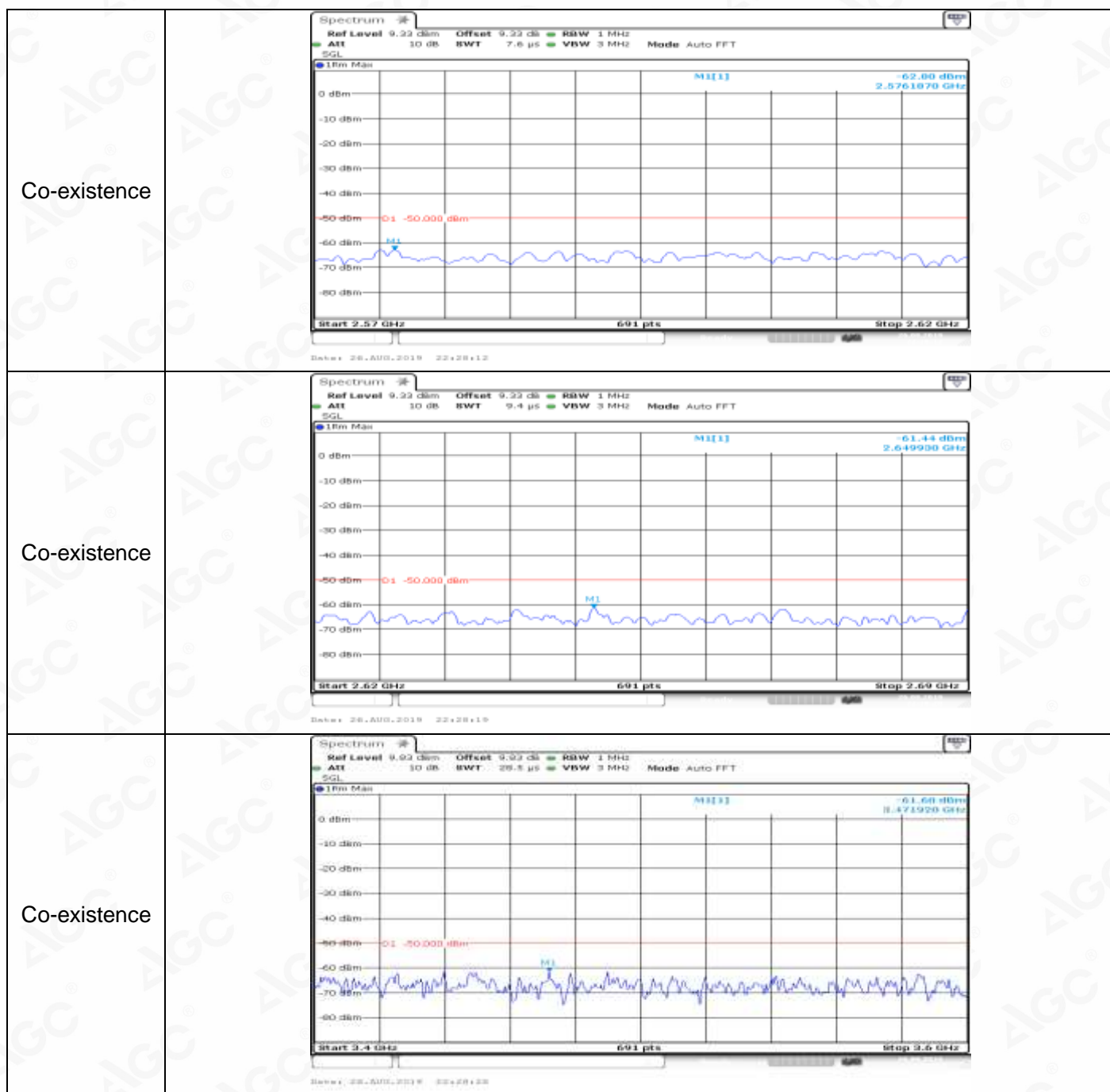
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullRB#0	
General	

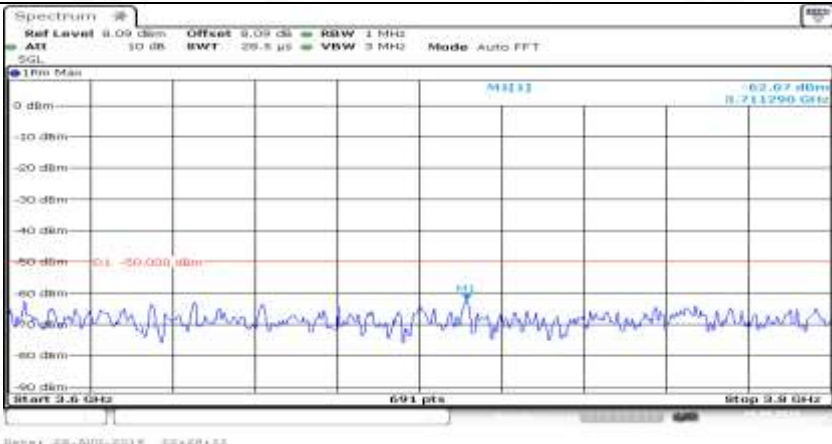
General	
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General	
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Co-existence	

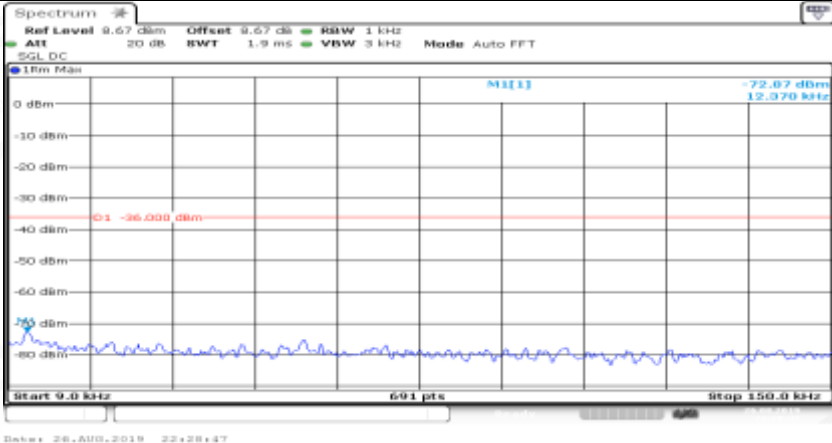
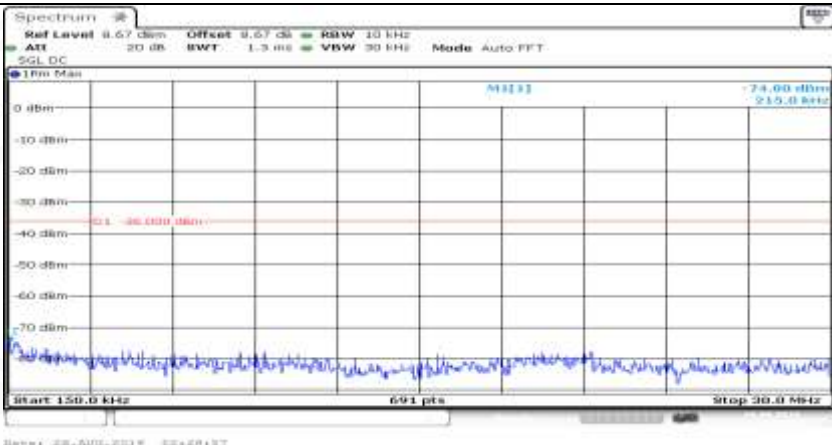
Co-existence	 <p>Start 925.0 MHz 691 pts Stop 950.0 MHz</p> <p>Date: 26.AUG.2019 22:27:31</p>
Co-existence	 <p>Start 1.005 GHz 691 pts Stop 1.010 GHz</p> <p>Date: 26.AUG.2019 22:27:32</p>
Co-existence	 <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 26.AUG.2019 22:27:45</p>

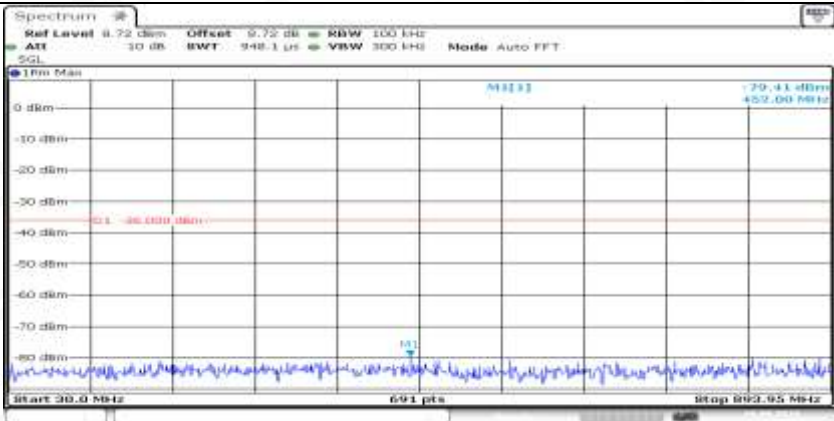
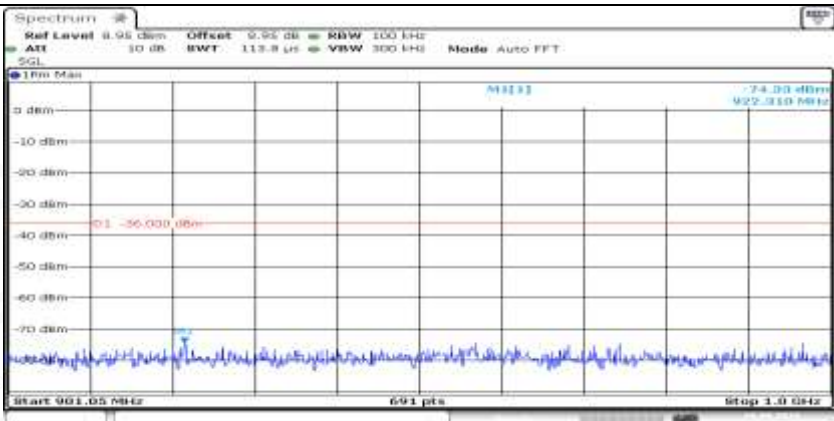
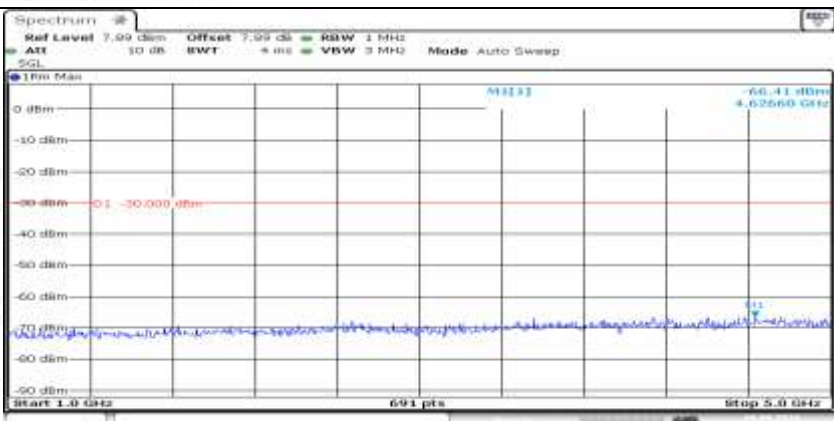




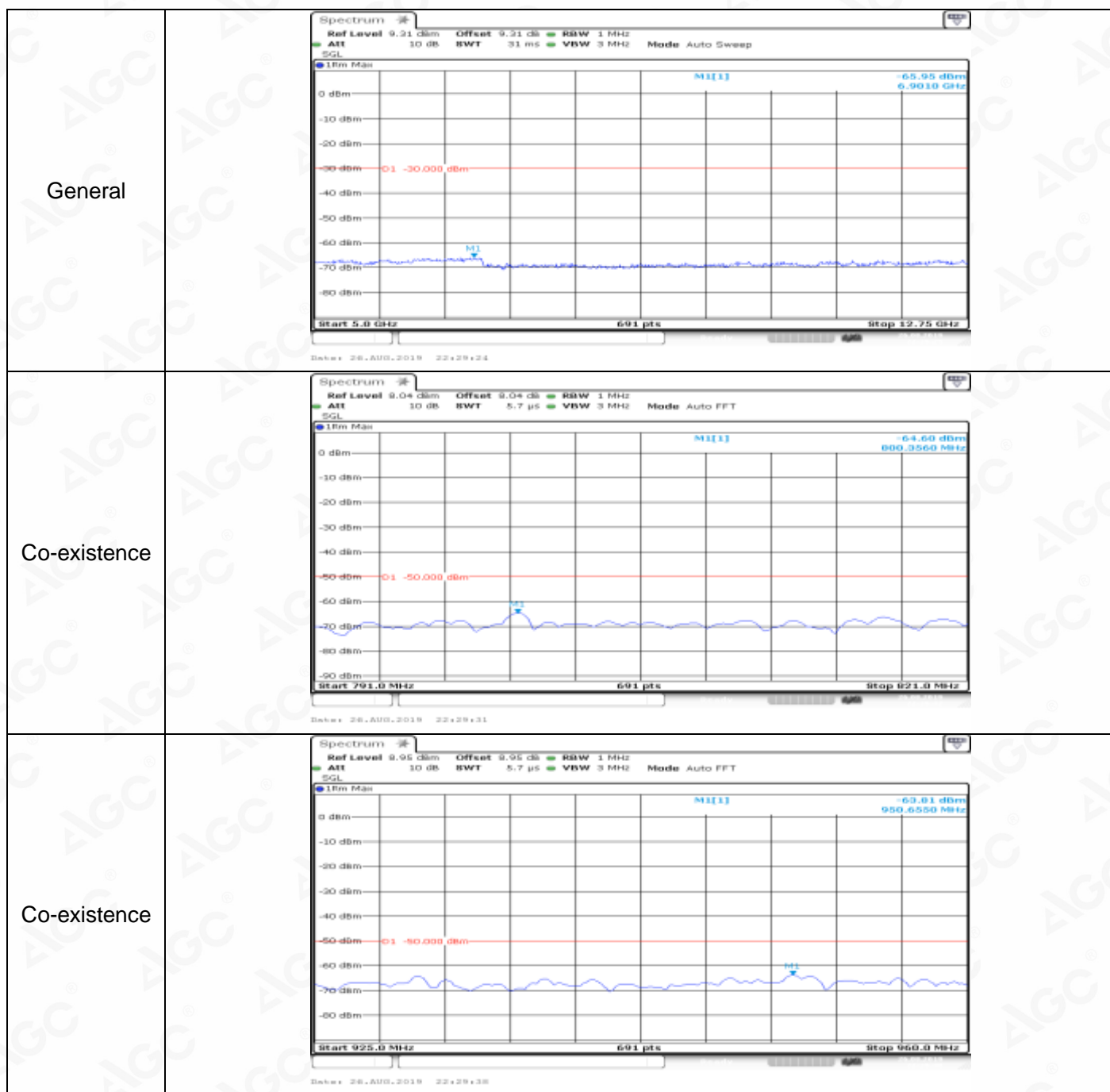
Co-existence	
Additional	NA

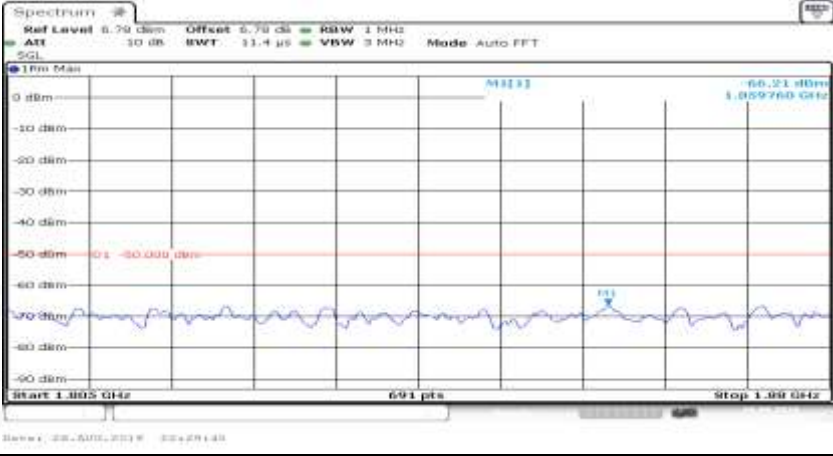
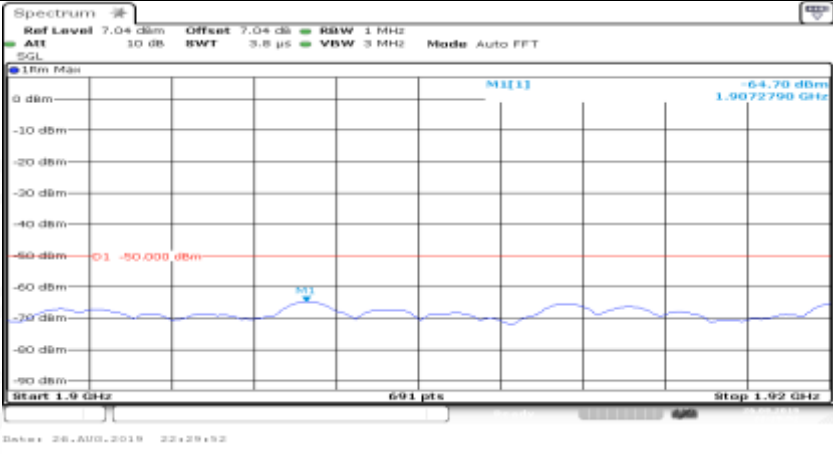
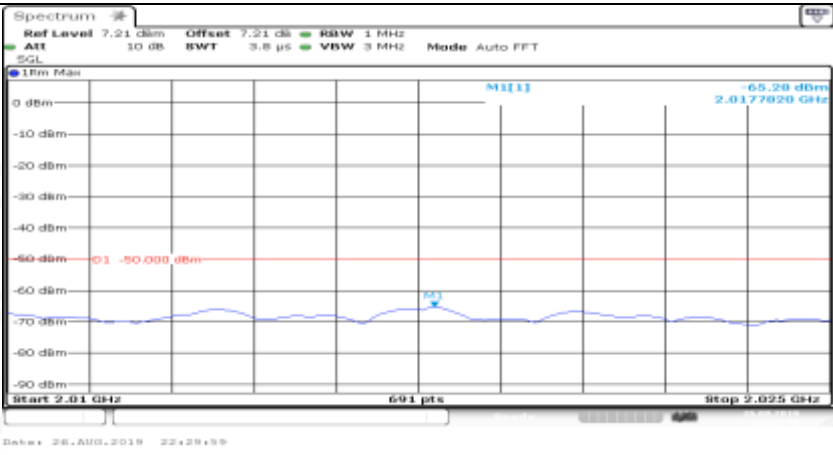
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0

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General	

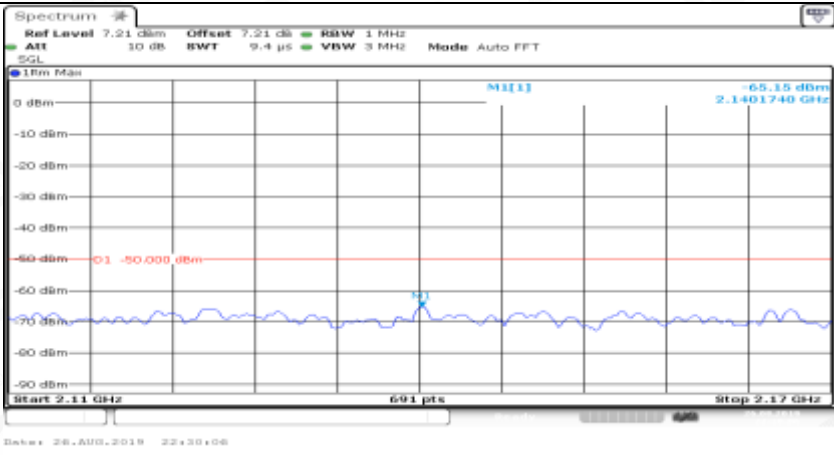
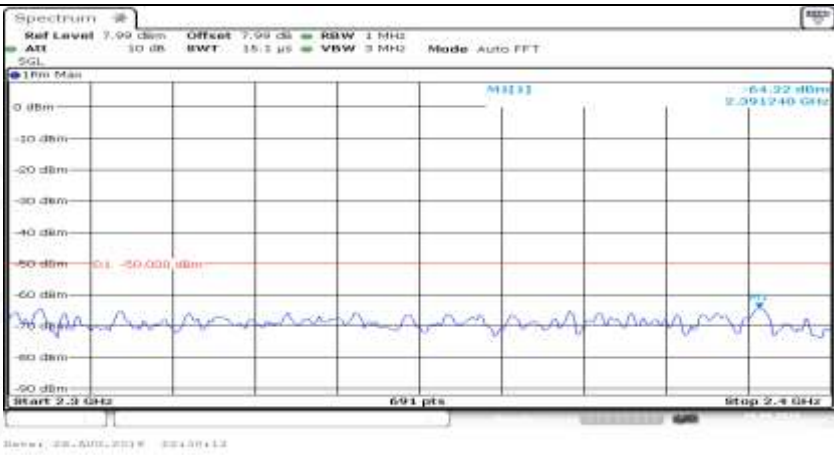
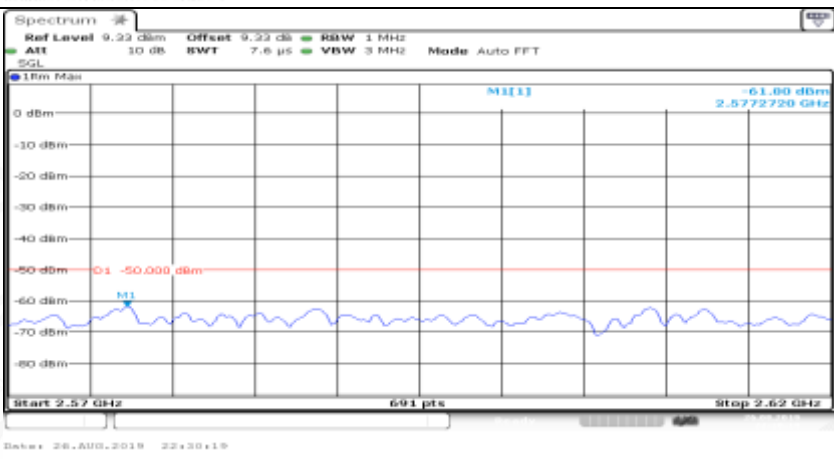
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General	



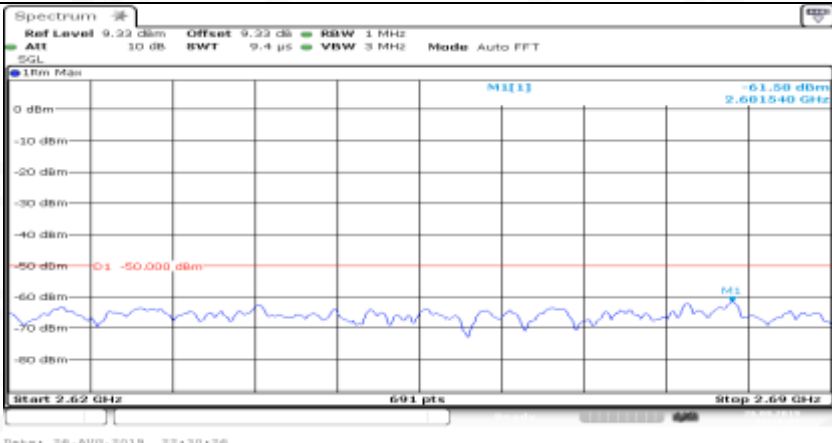
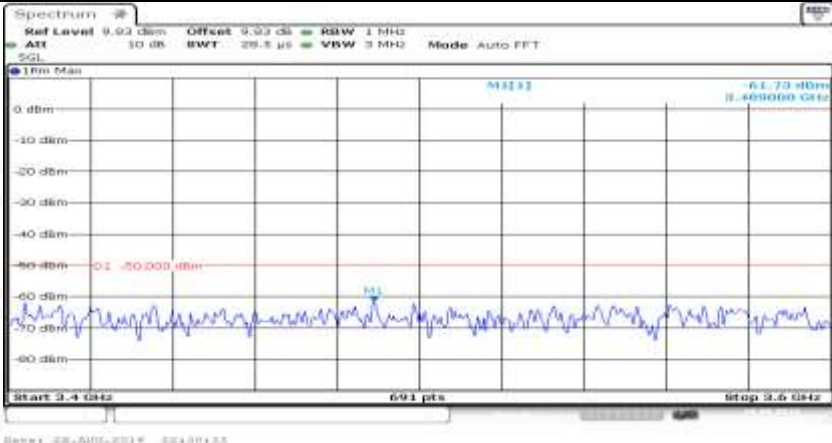
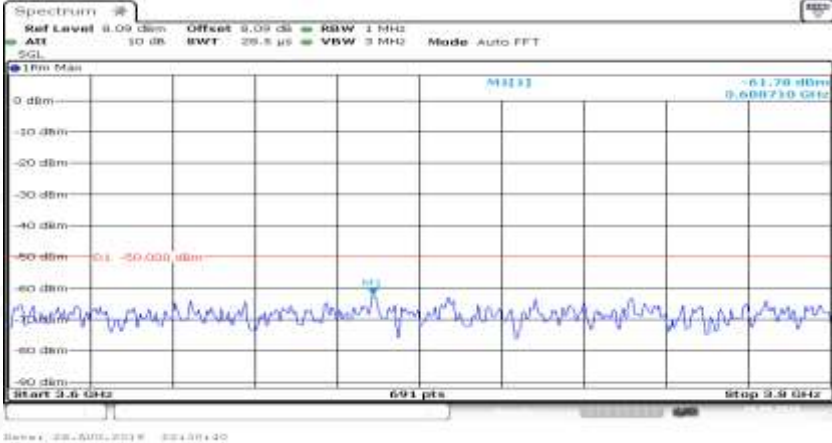


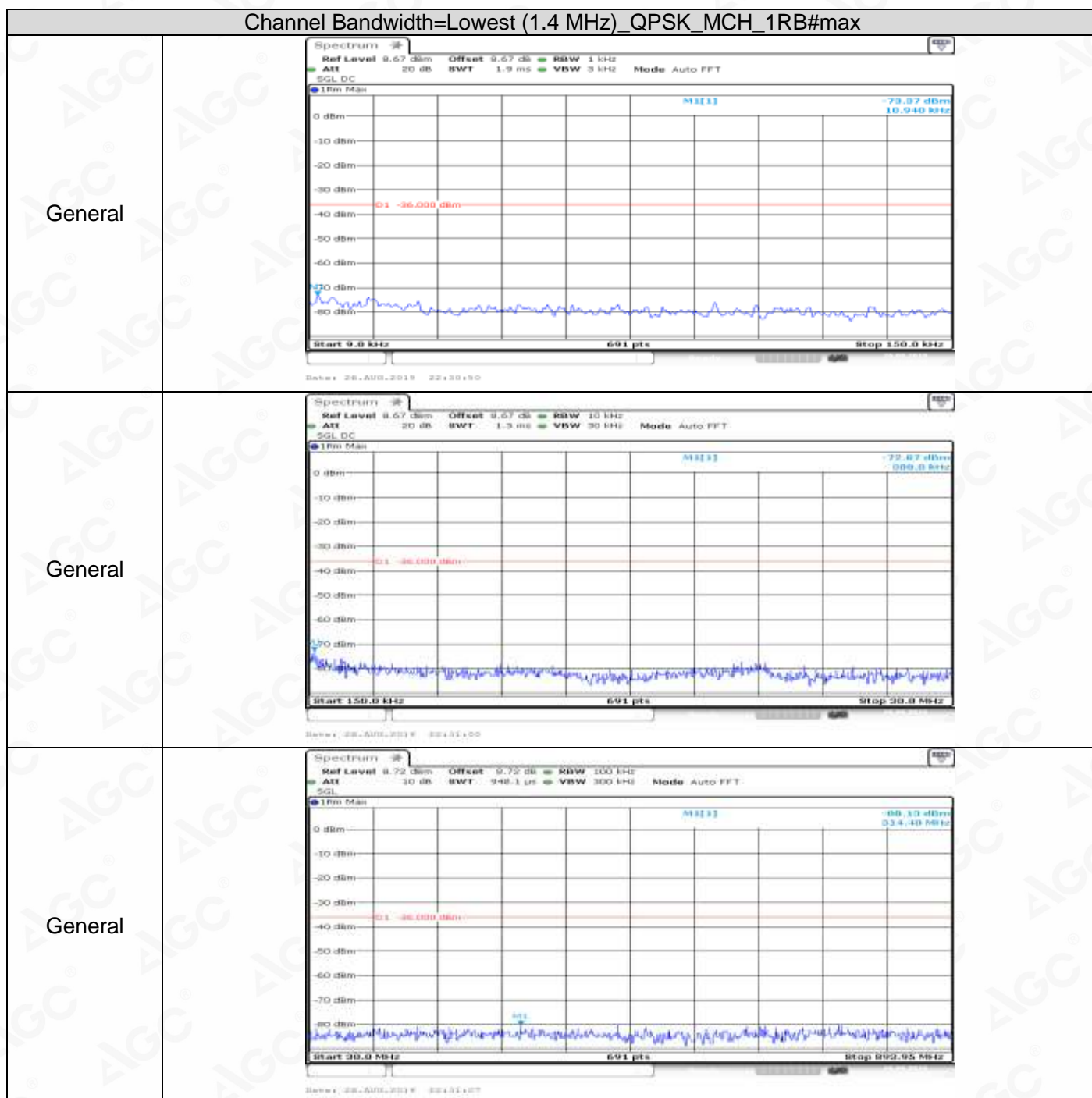
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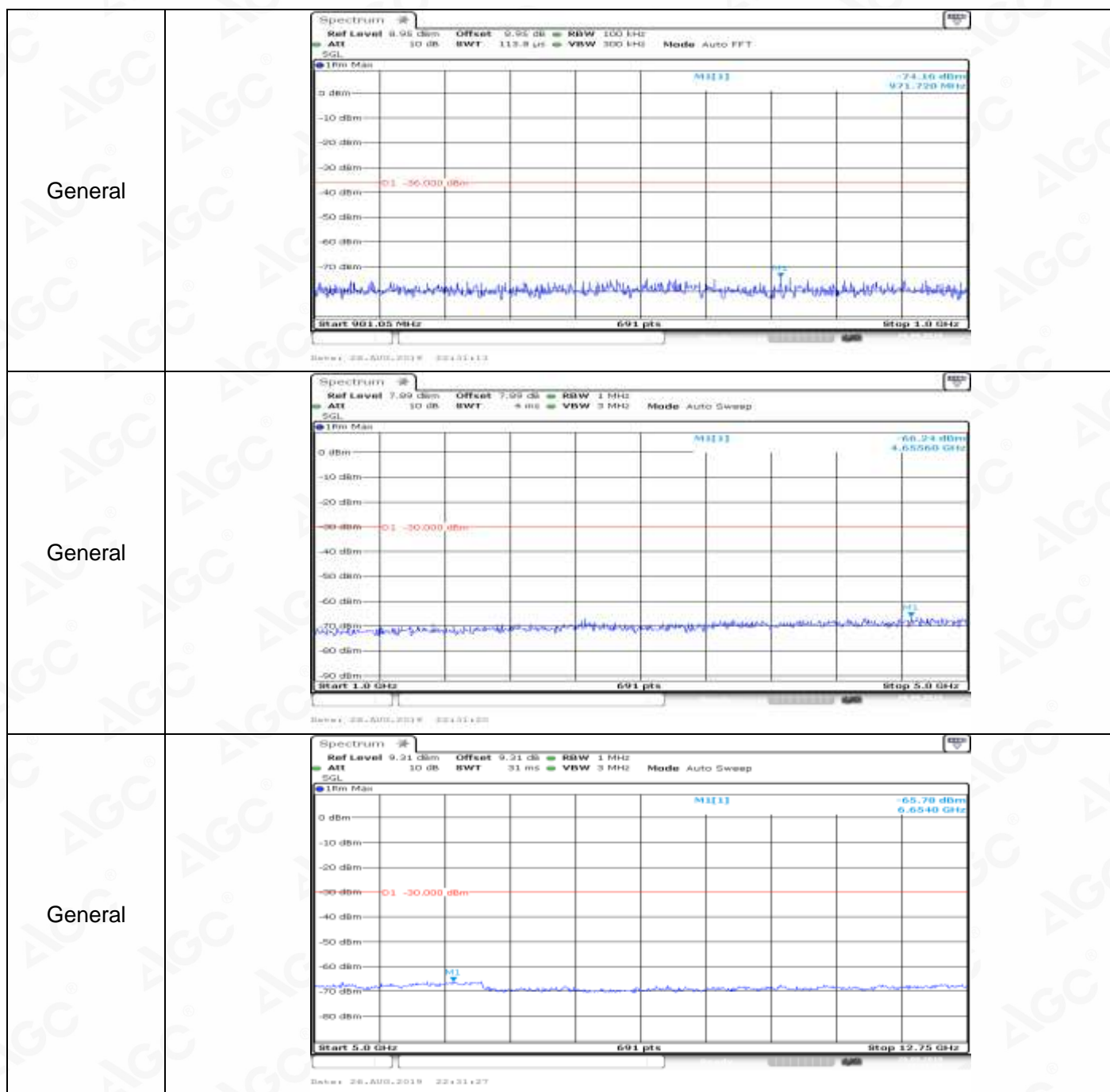


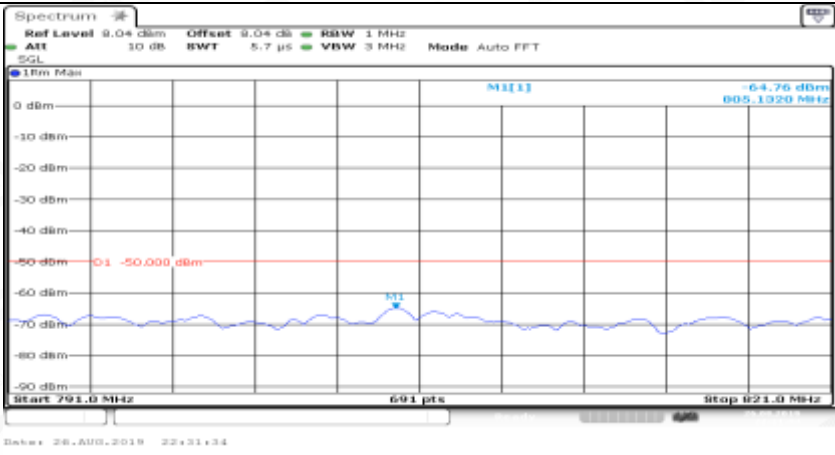
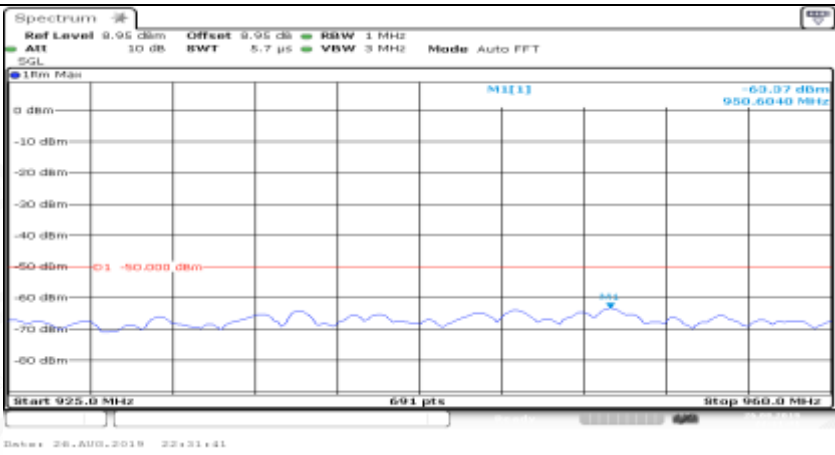
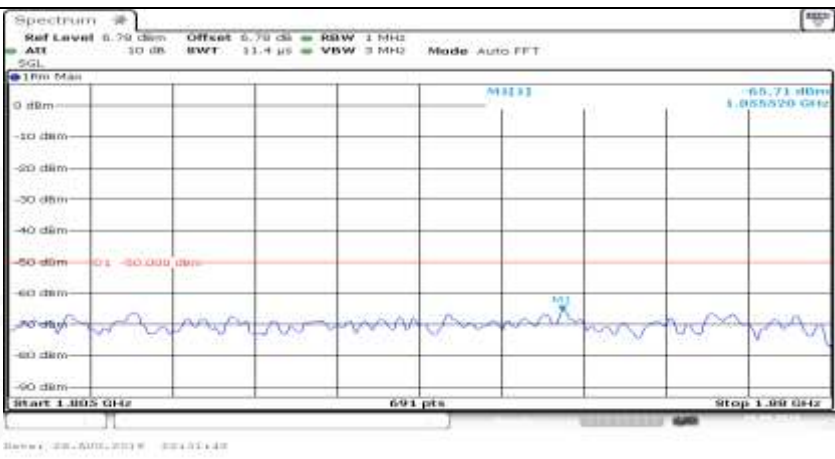
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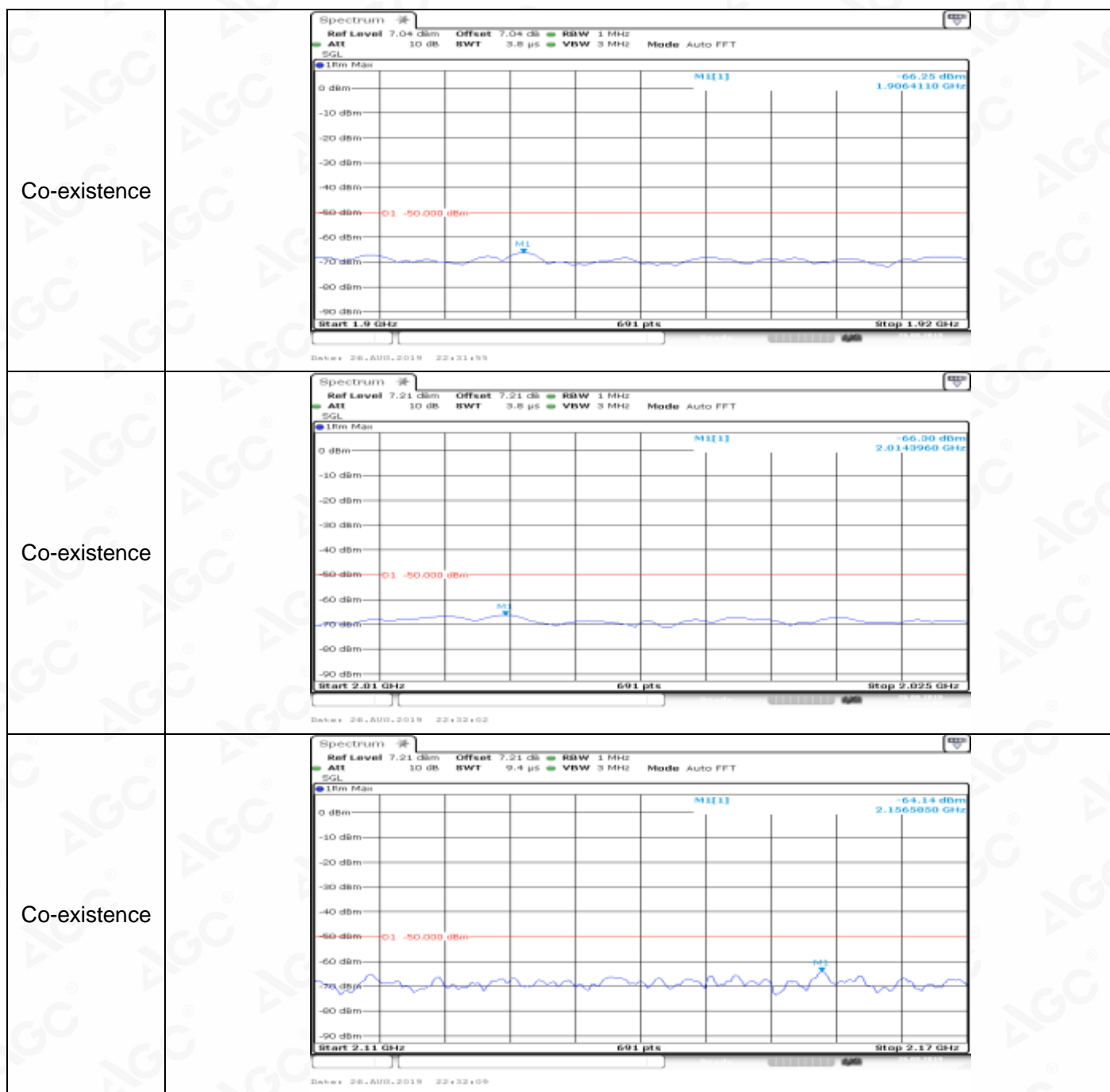



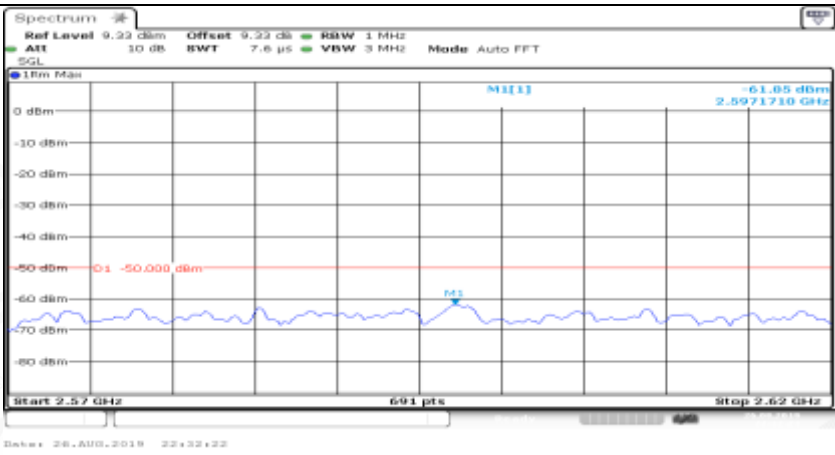
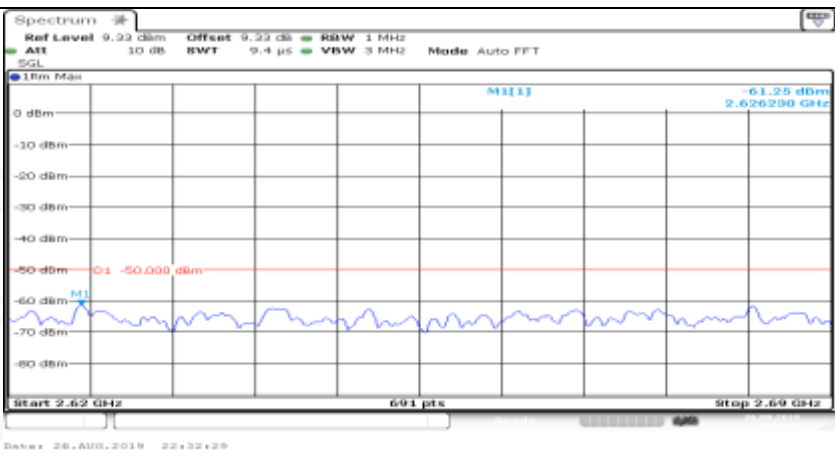
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Co-existence	
Additional	NA

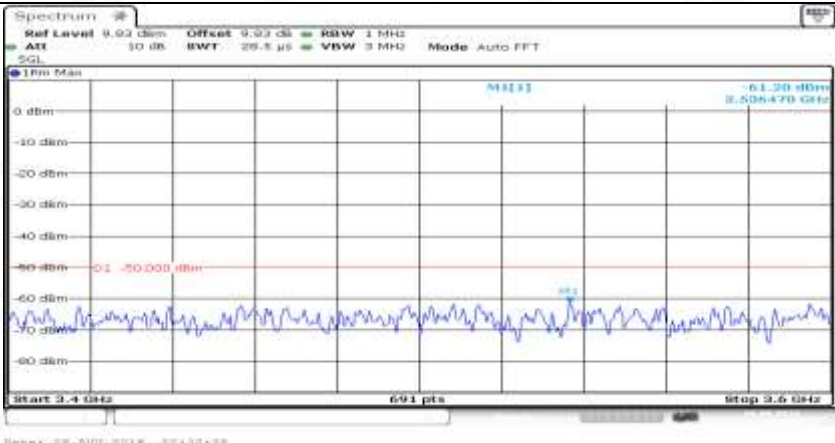
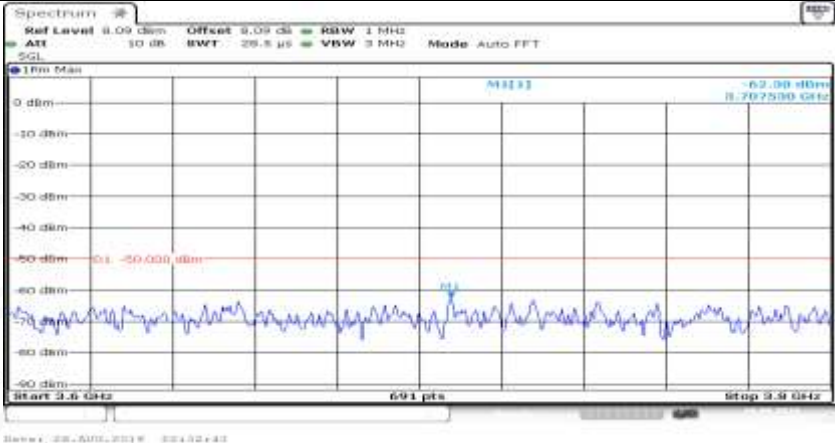


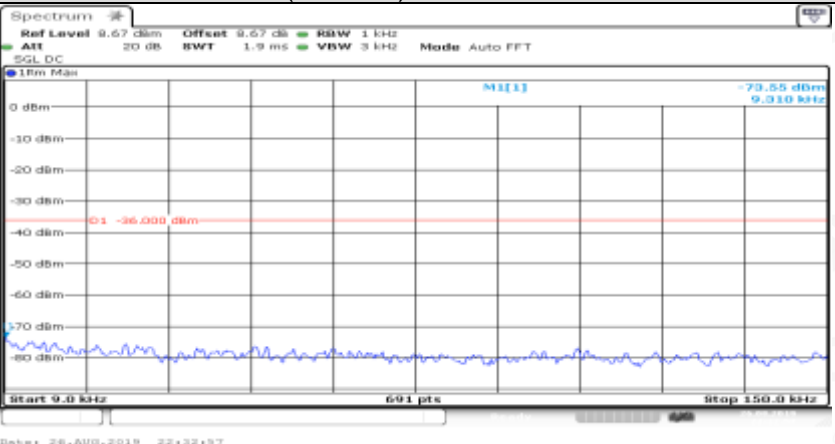


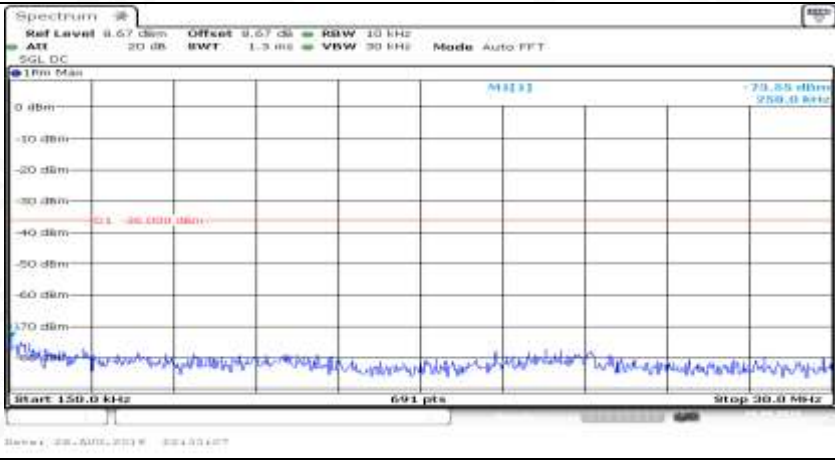
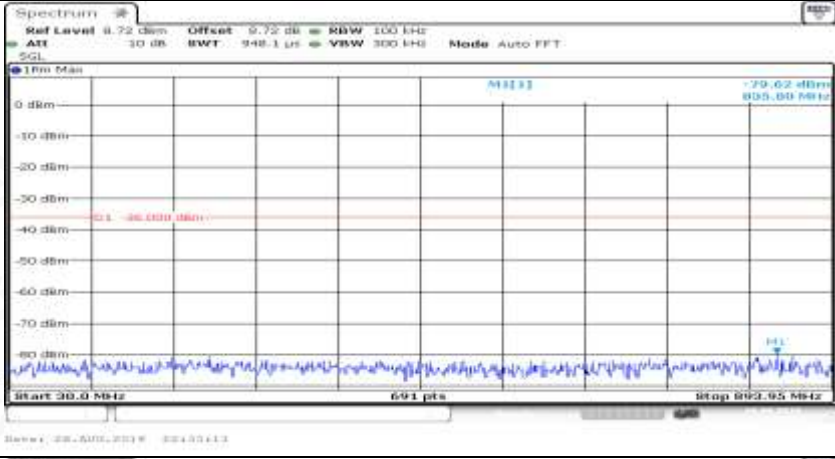
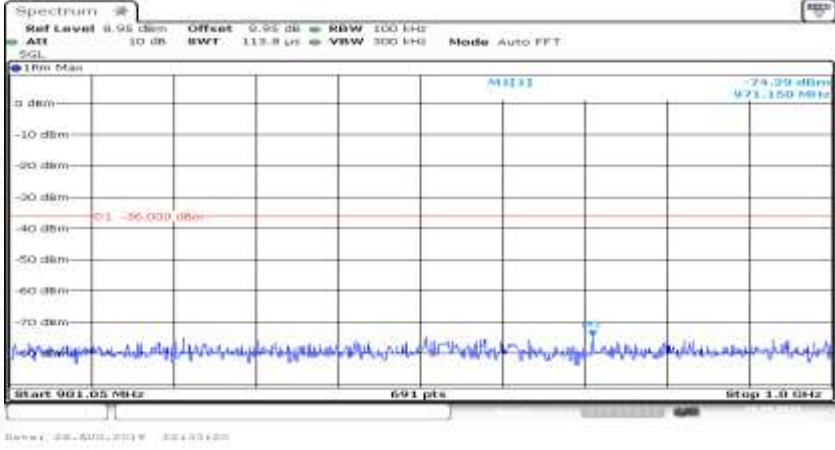
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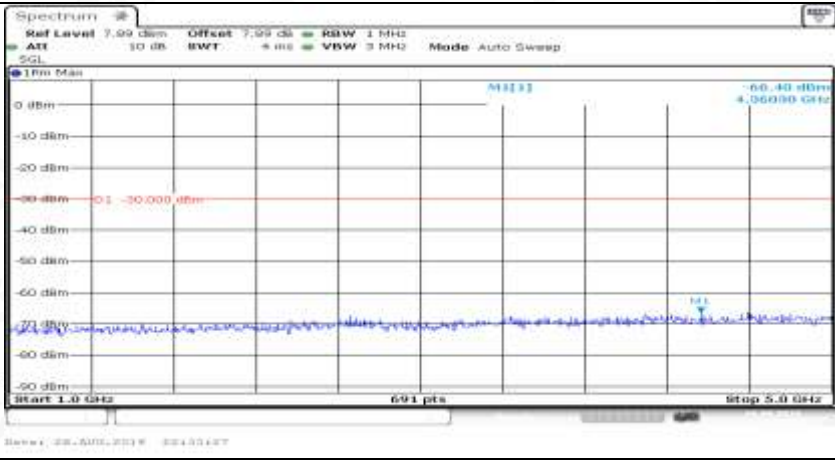
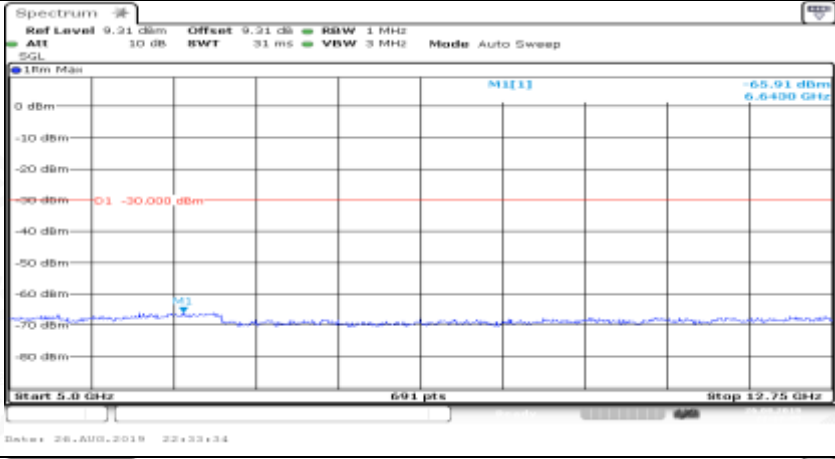
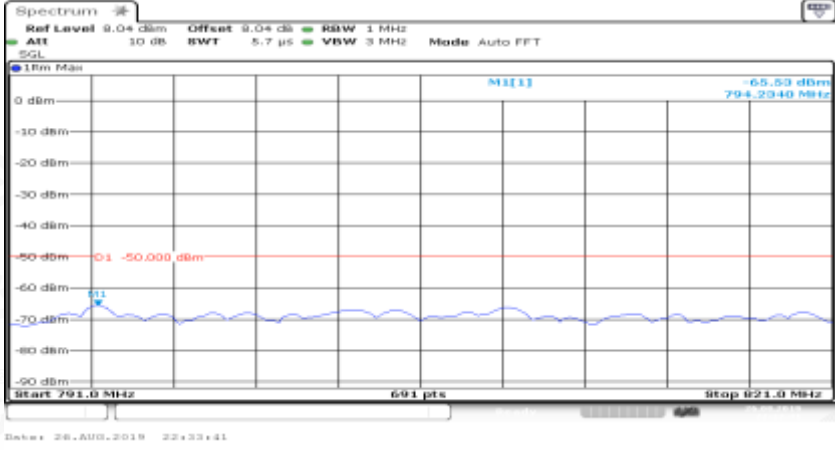


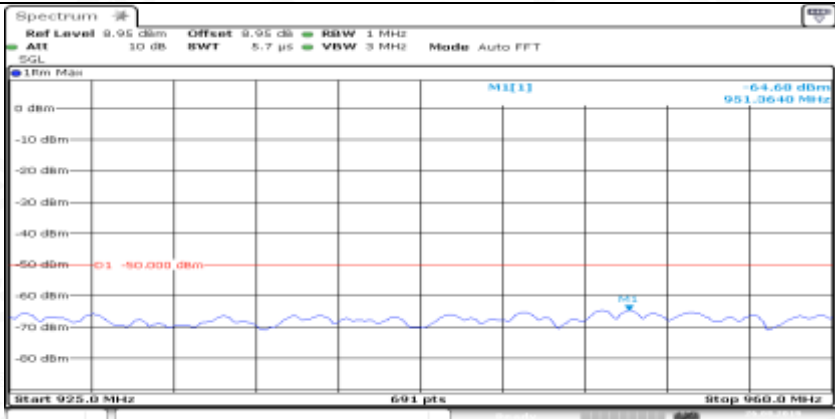
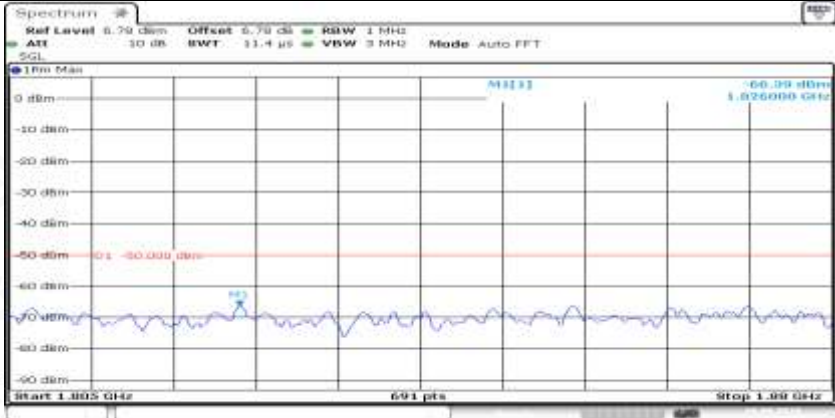
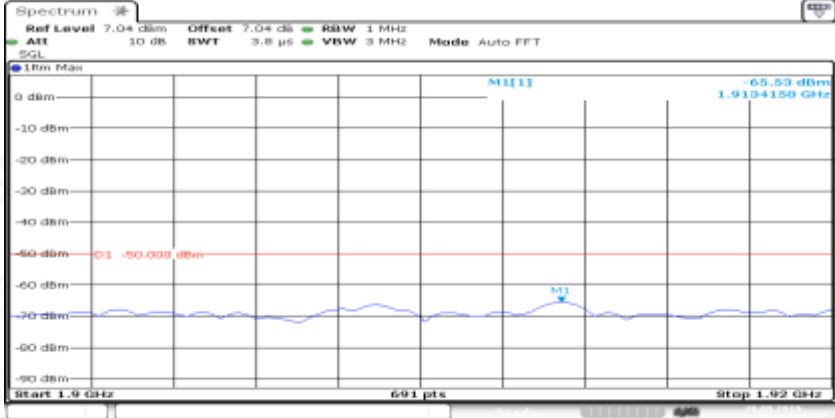
Co-existence	
Co-existence	
Co-existence	

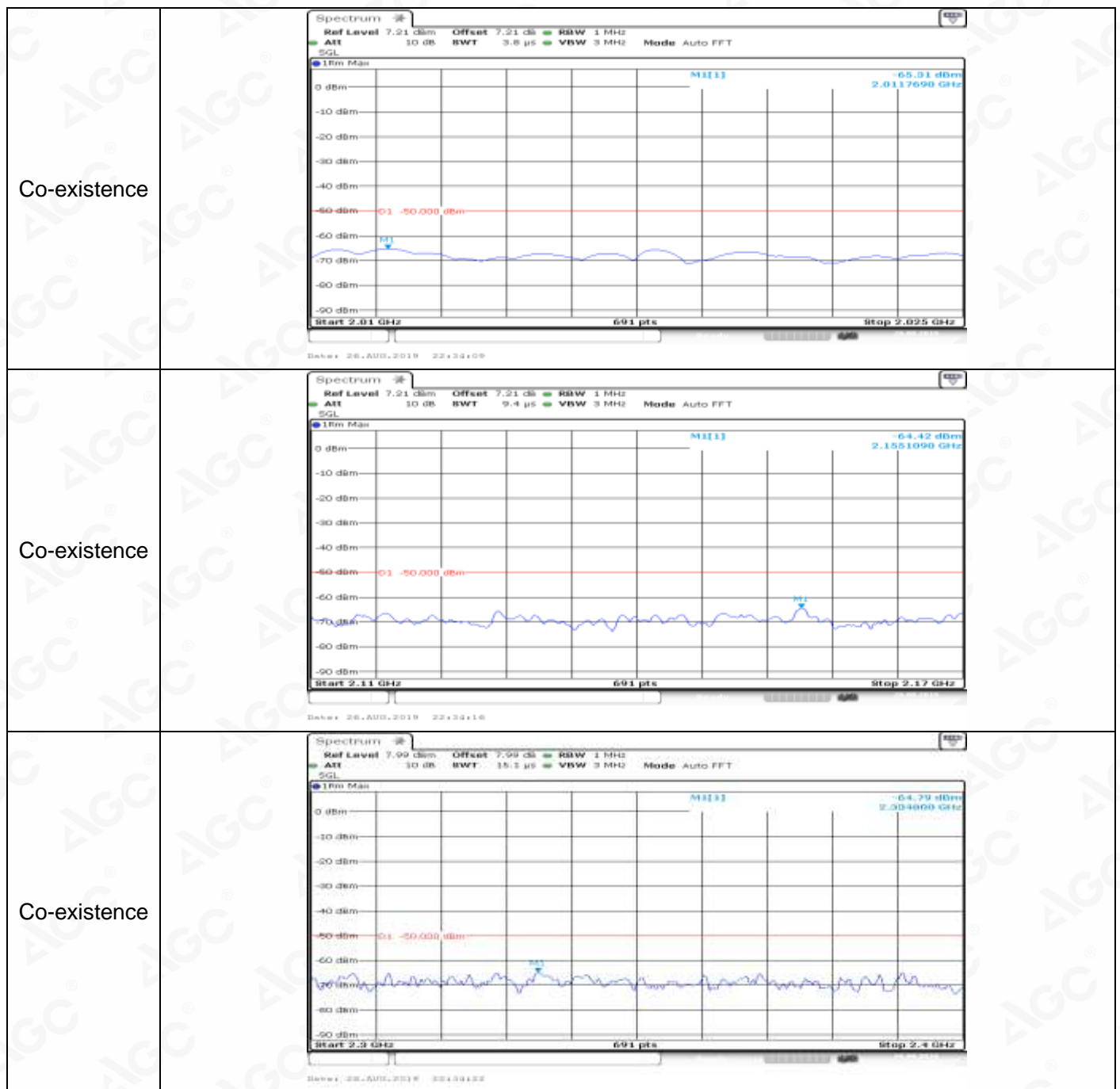
Co-existence	
Co-existence	
Additional	NA

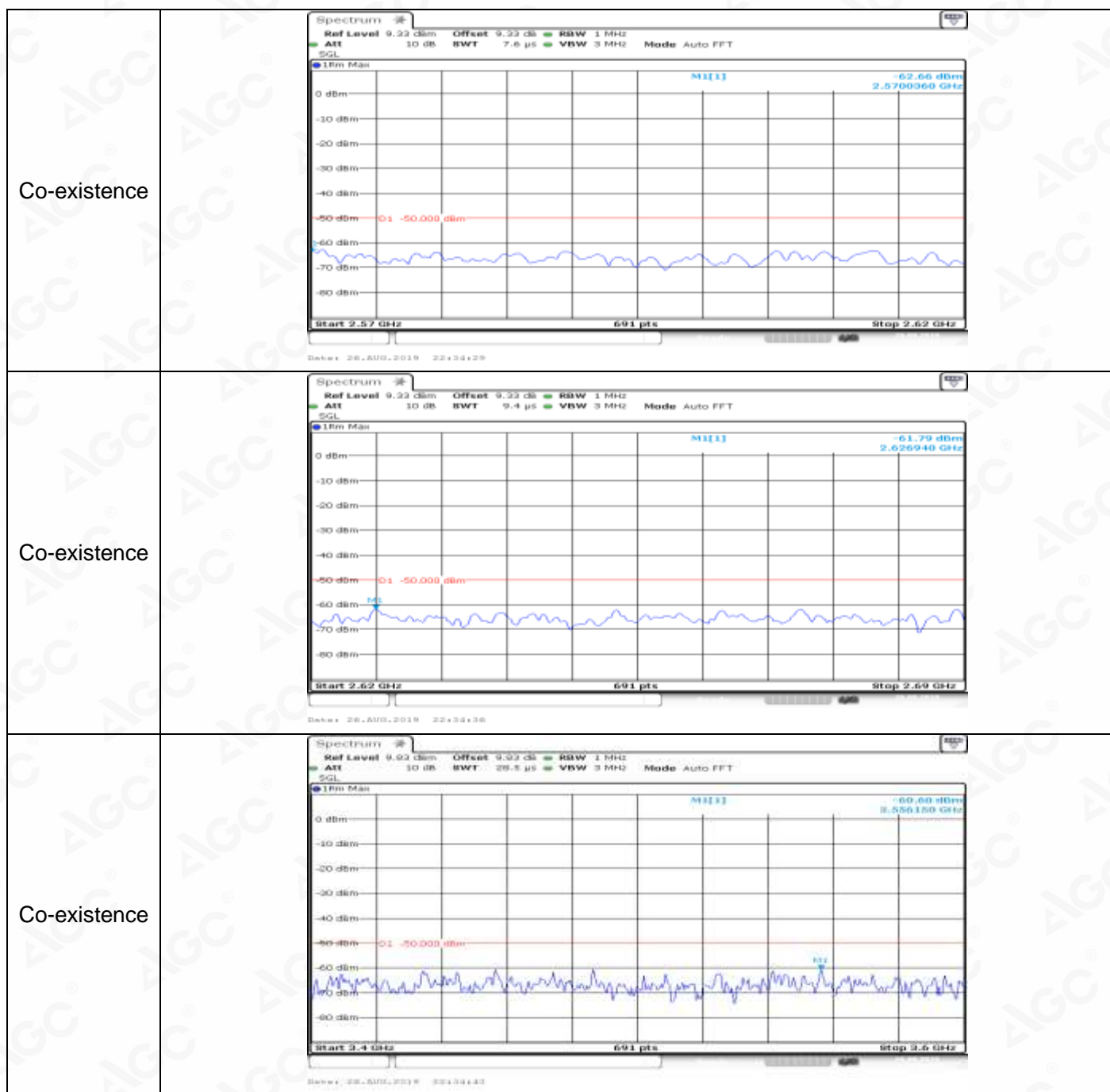
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	
General	

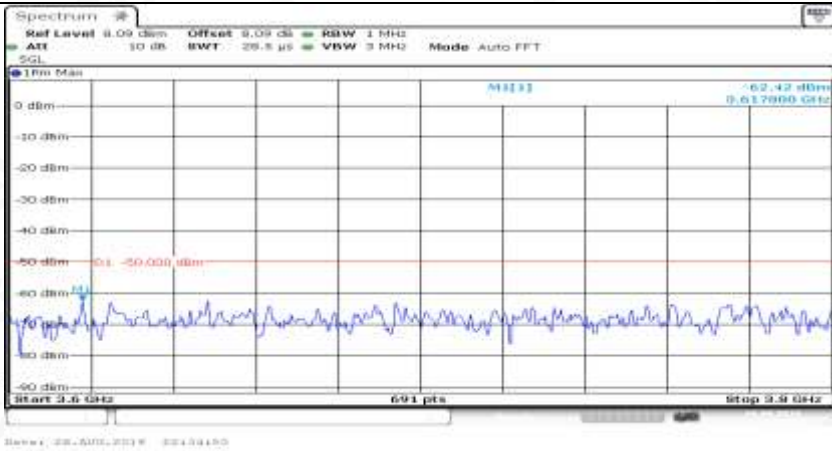
General	
General	
General	

General	
General	
Co-existence	

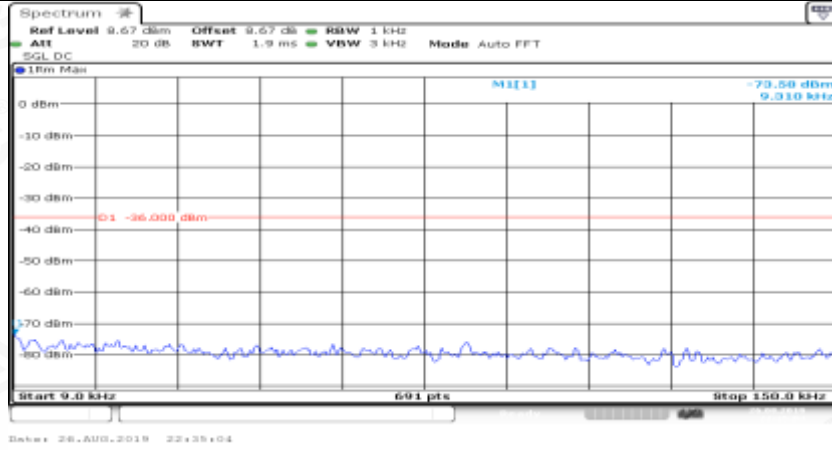
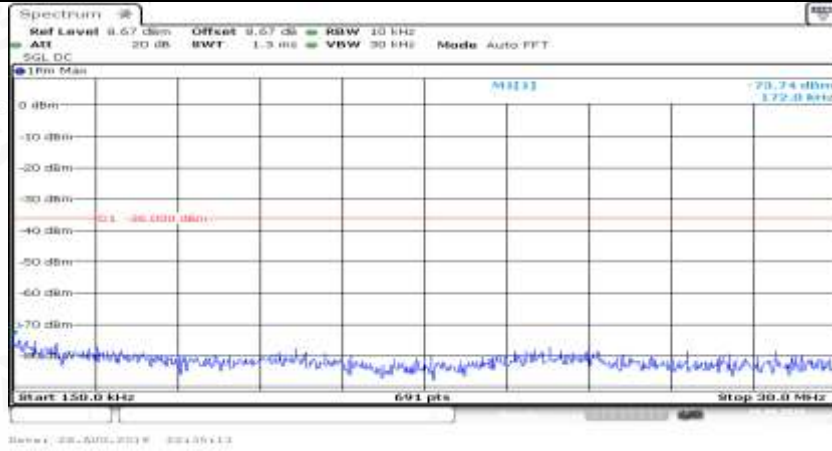
Co-existence	 <p>Ref Level 9.95 dBm Offset 9.95 dB RBW 1 MHz ATT 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT</p> <p>1Rm Max M1[1] -64.68 dBm 951.3640 MHz</p> <p>Start 925.0 MHz 691 pts Stop 950.0 MHz</p> <p>Date: 28.AUG.2019 22:33:48</p>
Co-existence	 <p>Ref Level 6.79 dBm Offset 6.79 dB RBW 1 MHz ATT 10 dB BW 11.4 μs VBW 3 MHz Mode Auto FFT</p> <p>1Rm Max M1[1] -66.59 dBm 1.826000 GHz</p> <p>Start 1.805 GHz 691 pts Stop 1.9 GHz</p> <p>Date: 28.AUG.2019 22:33:59</p>
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>1Rm Max M1 -65.53 dBm 1.9134150 GHz</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 28.AUG.2019 22:34:02</p>


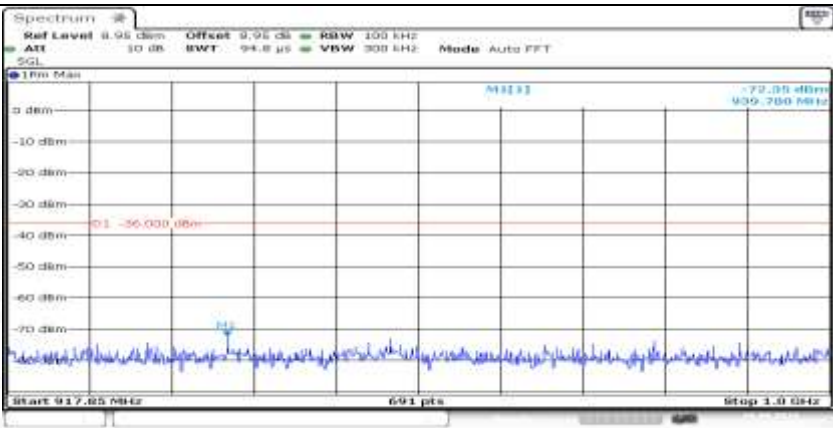
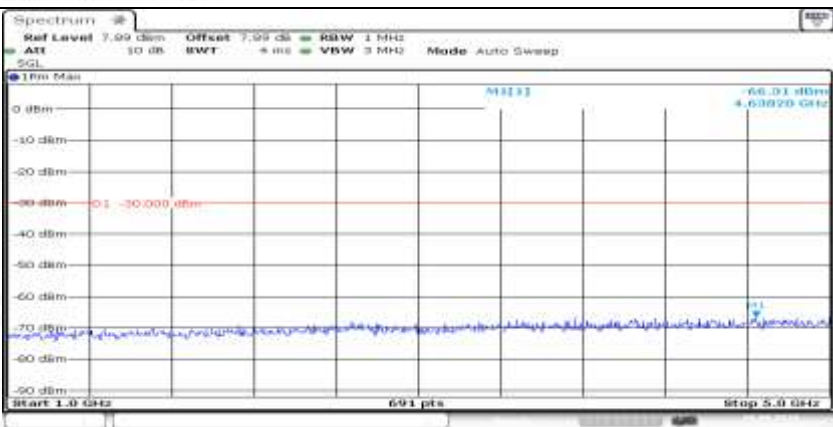




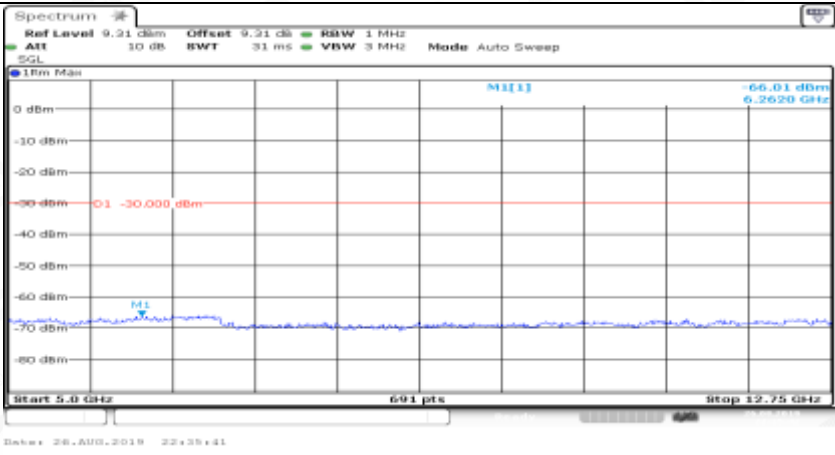
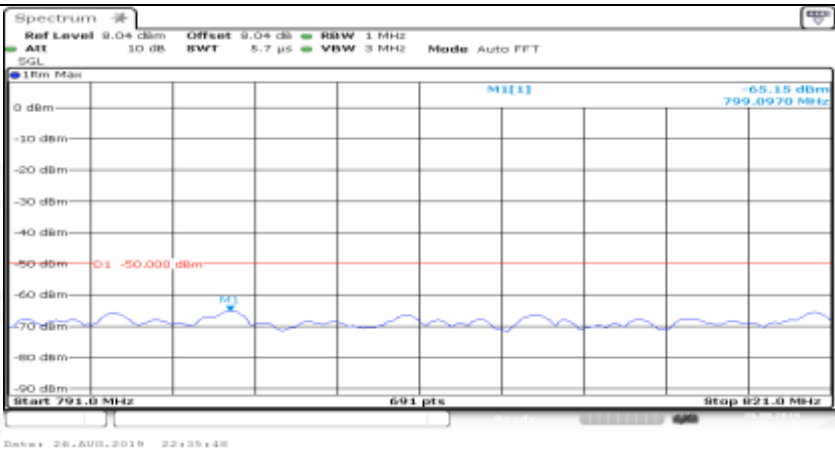
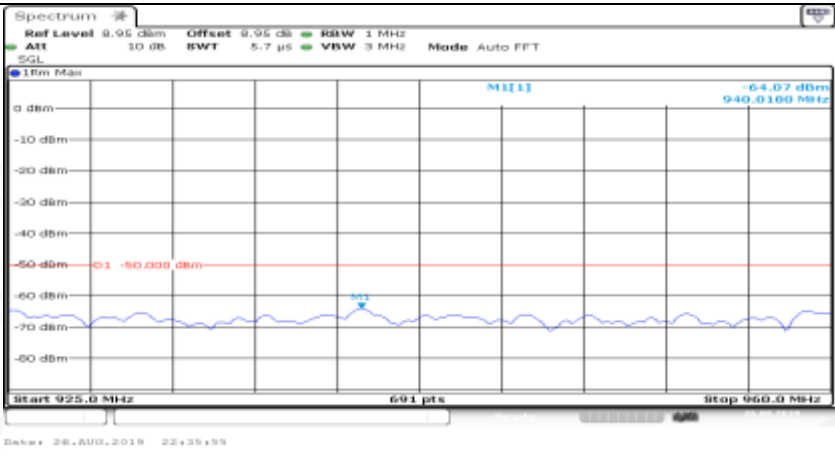
Co-existence	
Additional	NA


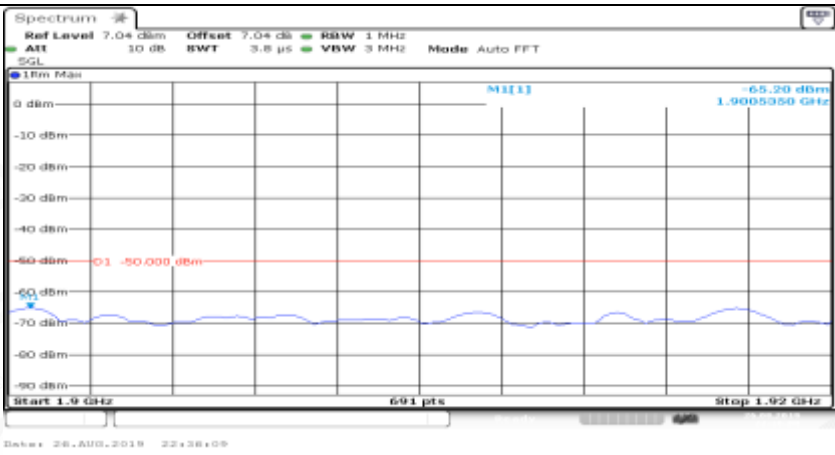
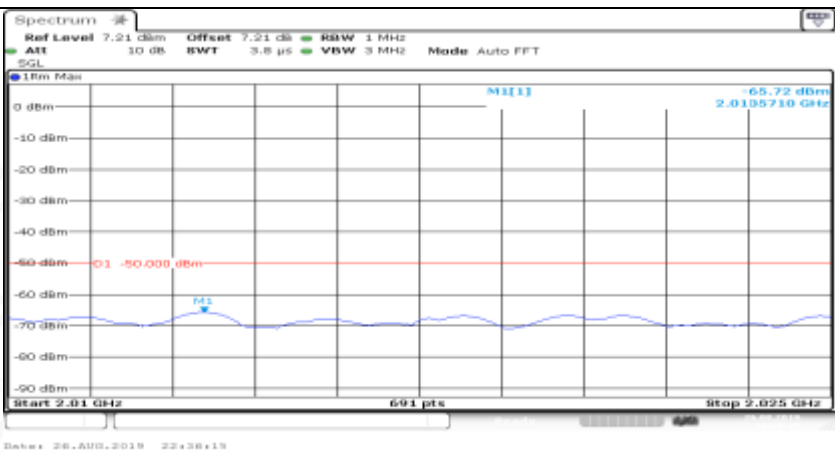
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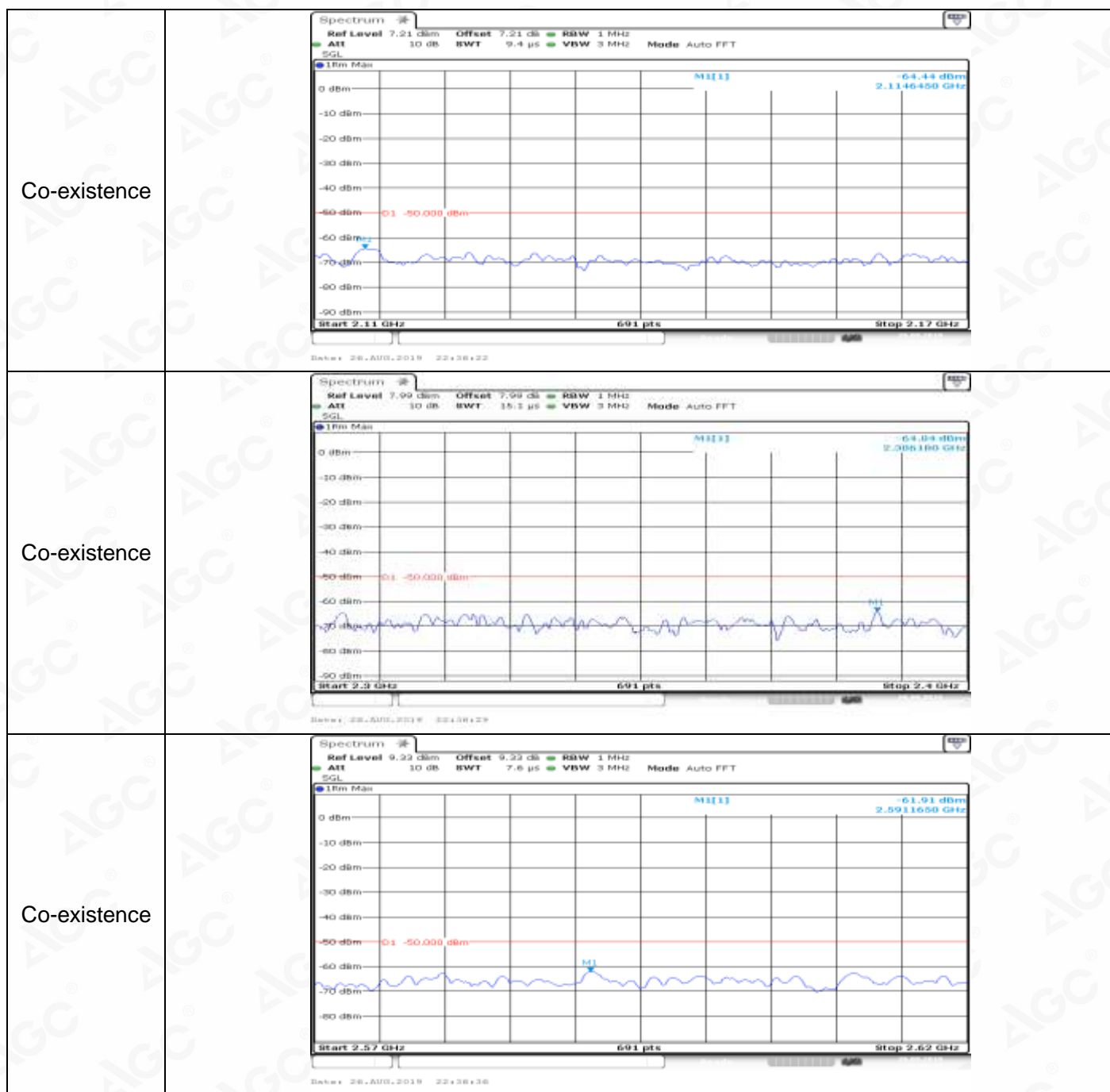
General	
General	

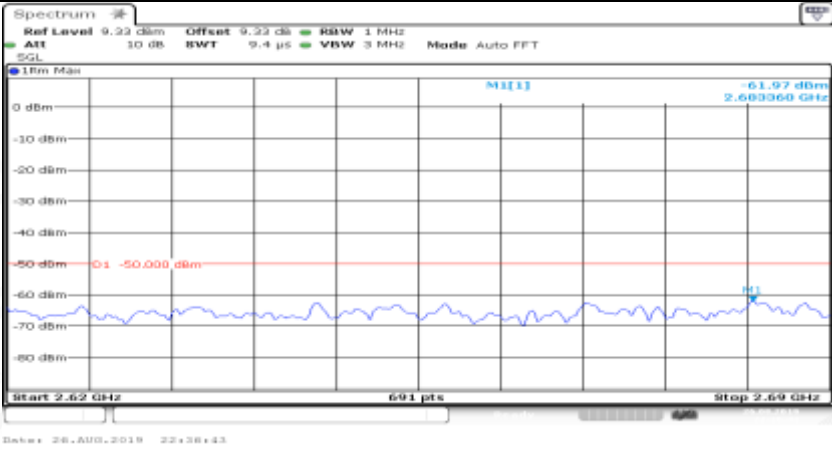
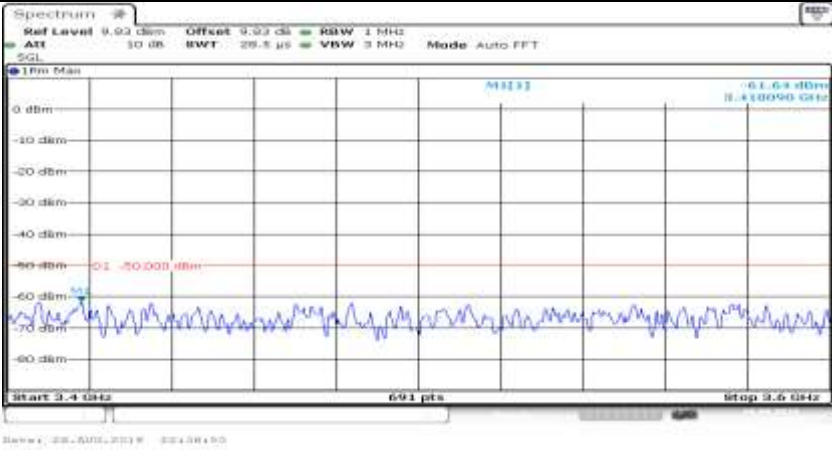
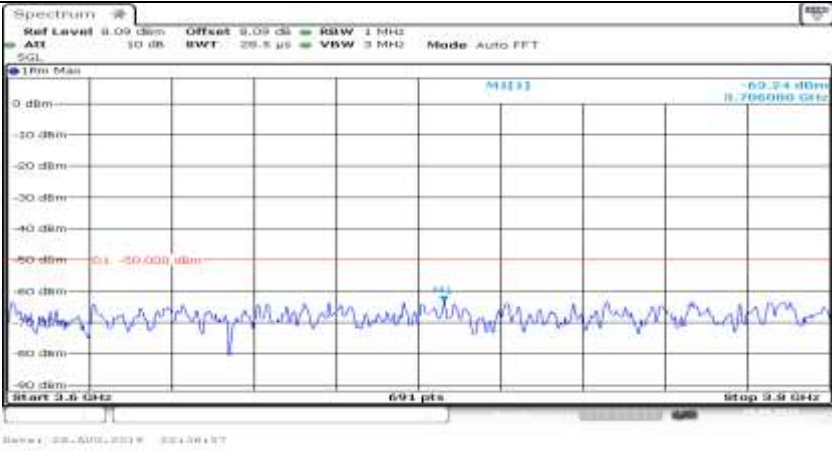
General	 <p>Spectrum plot showing a signal at 90.67 dBm. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 30.0 MHz to 910.75 MHz. A red line indicates a level of -36.000 dBm. The signal is labeled M1133.</p>
General	 <p>Spectrum plot showing a signal at 72.95 dBm. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 917.05 MHz to 1.0 GHz. A red line indicates a level of -36.000 dBm. The signal is labeled M1133.</p>
General	 <p>Spectrum plot showing a signal at 66.01 dBm. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 1.0 GHz to 5.0 GHz. A red line indicates a level of -30.000 dBm. The signal is labeled M1133.</p>



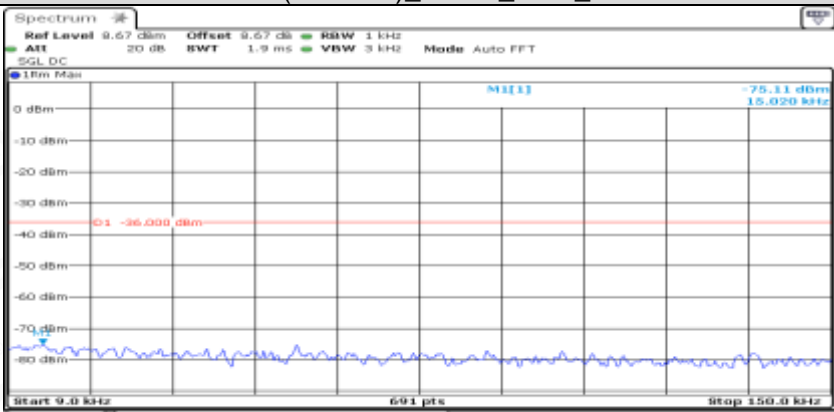
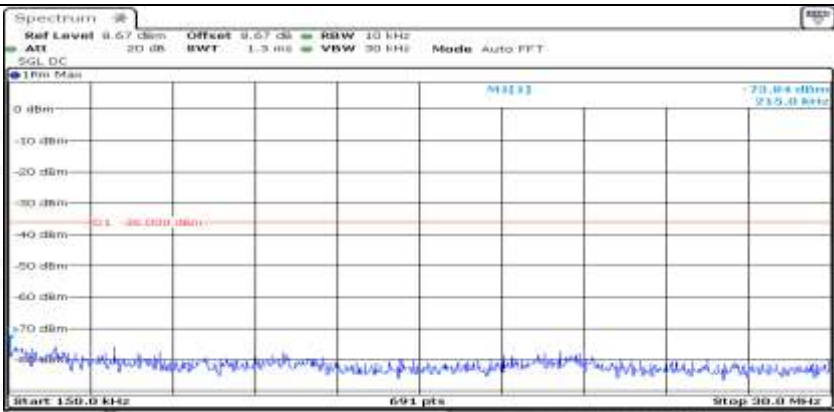
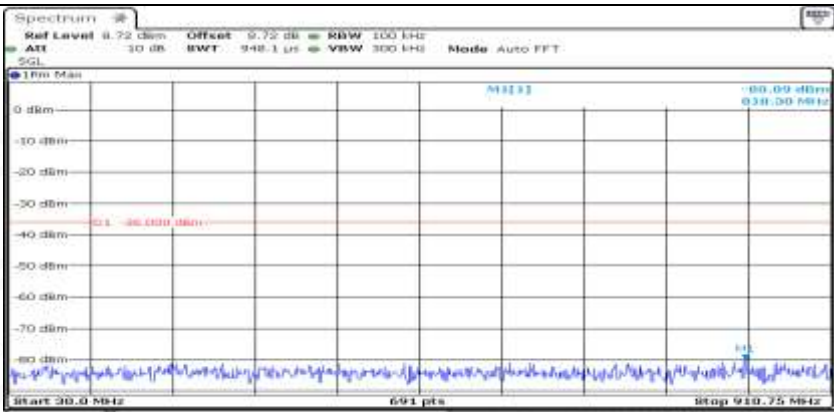
General	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	



Co-existence	
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max

General	 <p>Spectrum</p> <p>Ref Level 9.67 dBm Offset 9.67 dB BW 1 kHz</p> <p>Att 20 dB SWT 1.9 ms VBW 3 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>M1[1] -75.11 dBm 15.020 kHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 9.0 kHz 691 pts Stop 150.0 kHz</p> <p>Date: 28.AUG.2019 22:37:07</p>
General	 <p>Spectrum</p> <p>Ref Level 9.67 dBm Offset 9.67 dB BW 1 kHz</p> <p>Att 20 dB SWT 1.3 ms VBW 30 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>M1[1] -73.84 dBm 235.0 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 150.0 kHz 691 pts Stop 300.0 MHz</p> <p>Date: 28.AUG.2019 22:37:18</p>
General	 <p>Spectrum</p> <p>Ref Level 9.72 dBm Offset 9.72 dB BW 100 kHz</p> <p>Att 30 dB SWT 948.1 us VBW 300 kHz Mode Auto FFT</p> <p>SGL</p> <p>10m Max</p> <p>M1[1] -60.00 dBm 838.00 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 300.0 MHz 691 pts Stop 910.75 MHz</p> <p>Date: 28.AUG.2019 22:37:33</p>



Attestation of Global Compliance

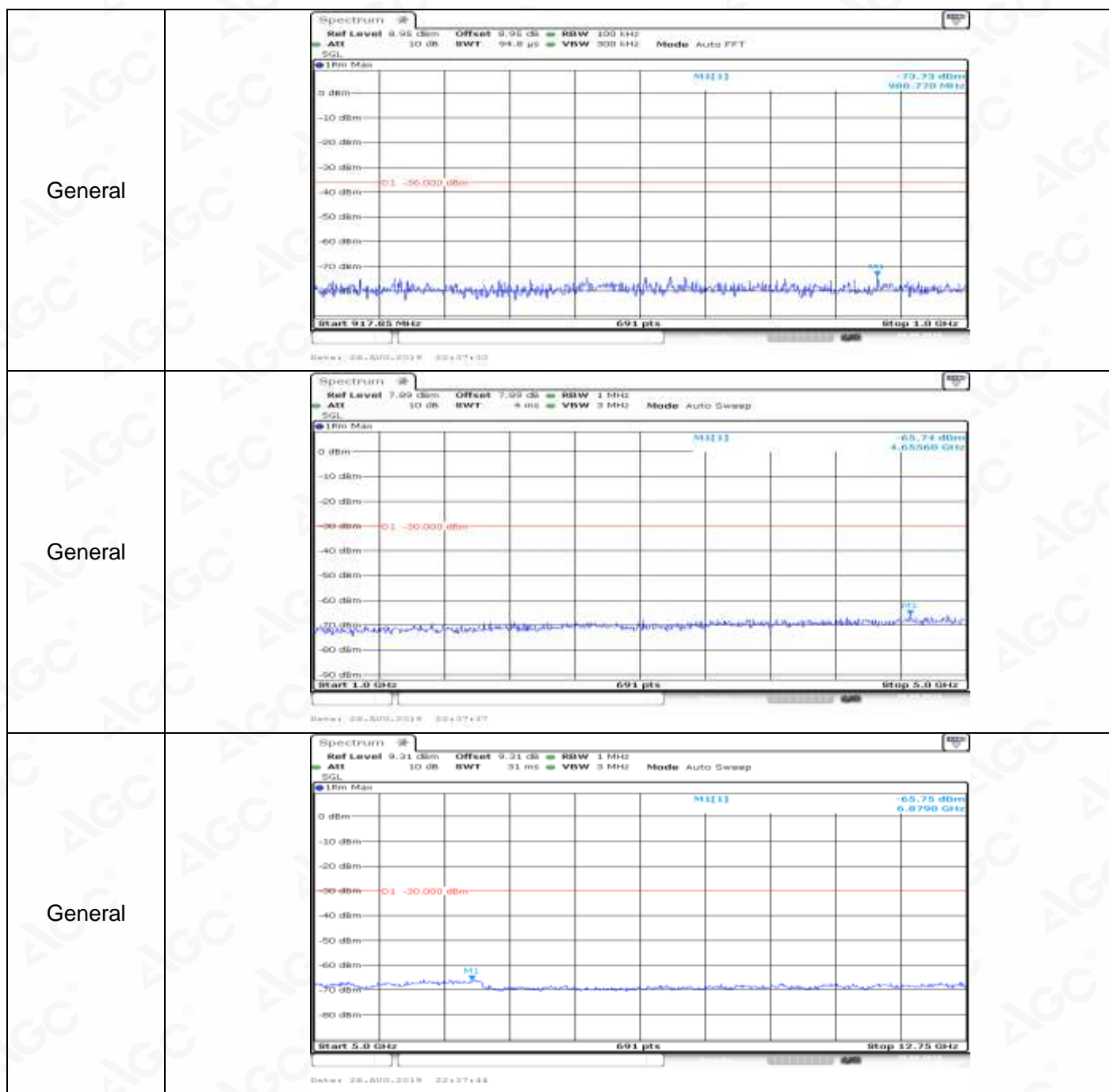
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

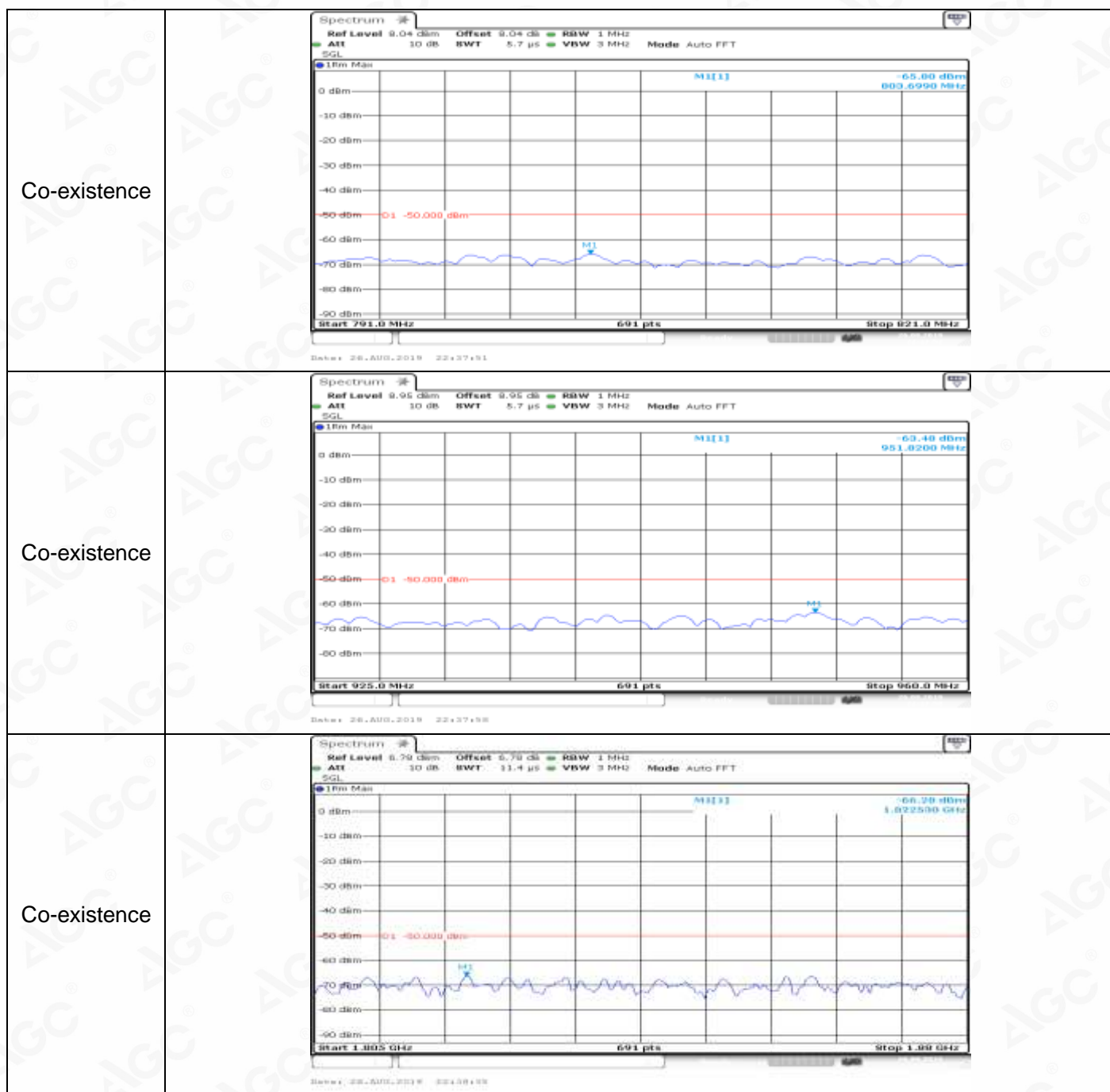
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

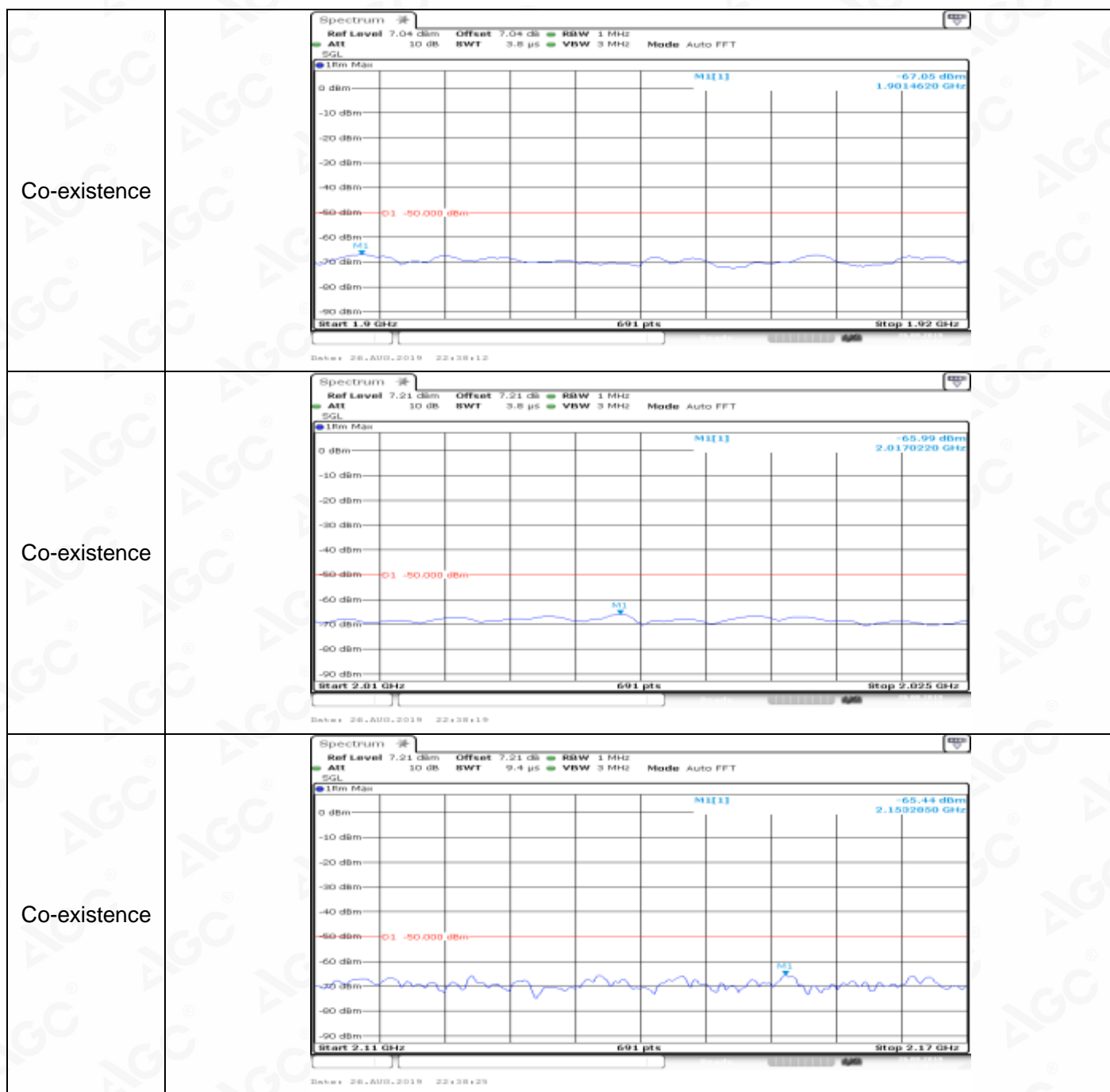
Tel: +86-755 2523 4088

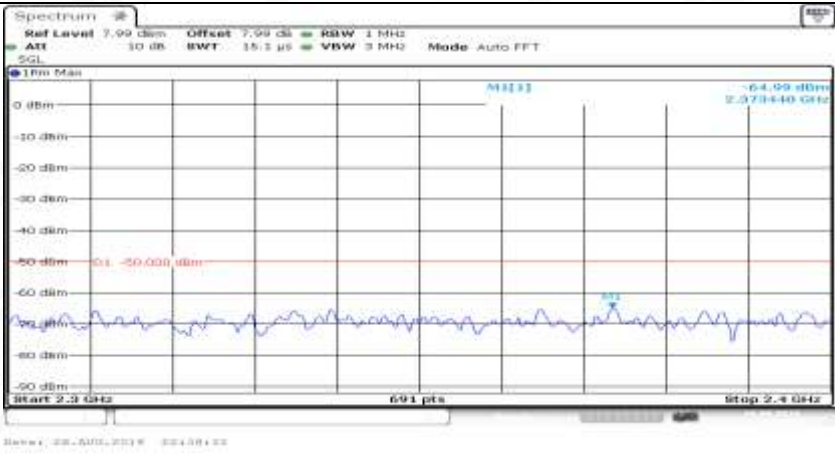
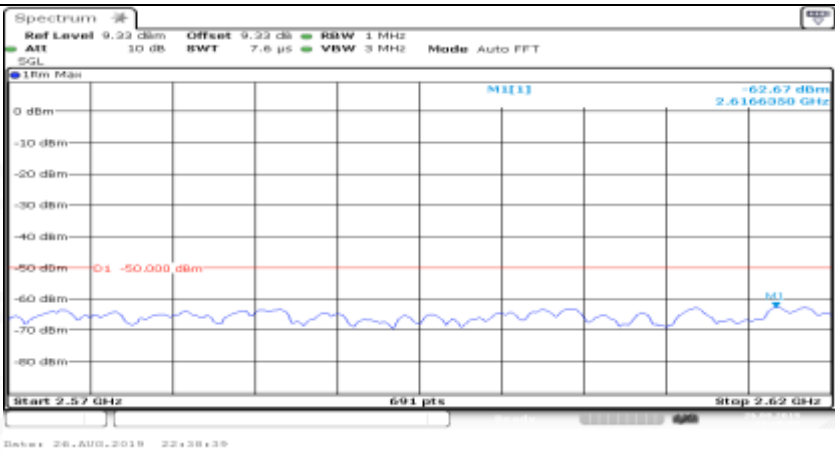
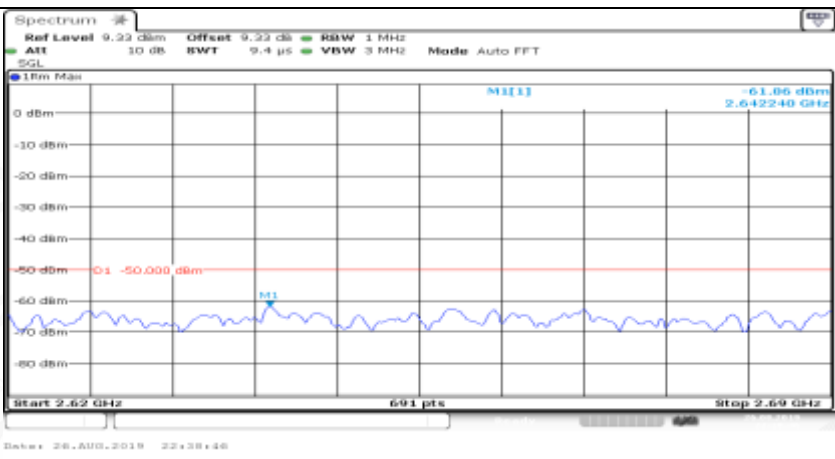
E-mail: agc@agc-cert.com

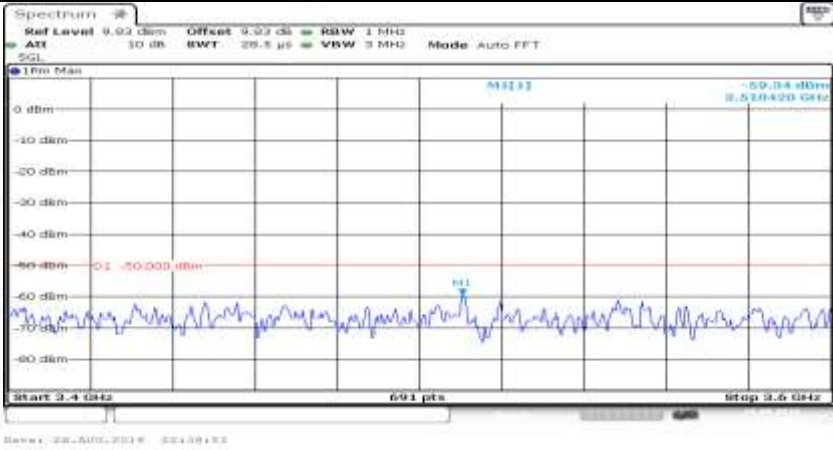
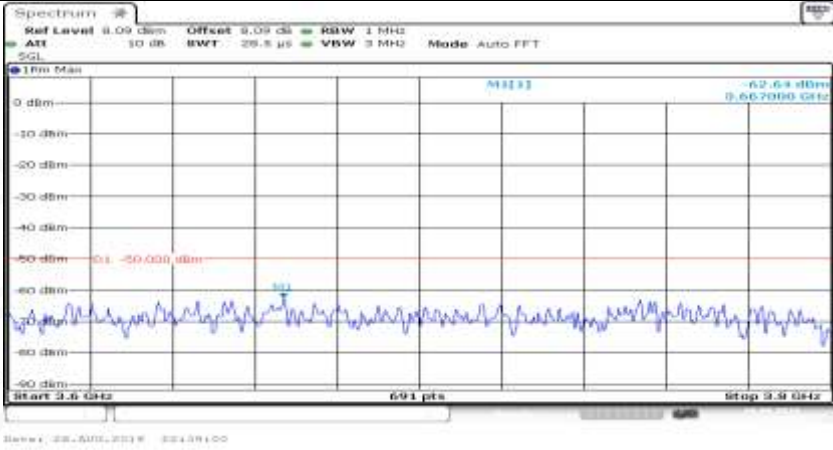
Service Hotline: 400 089 2118



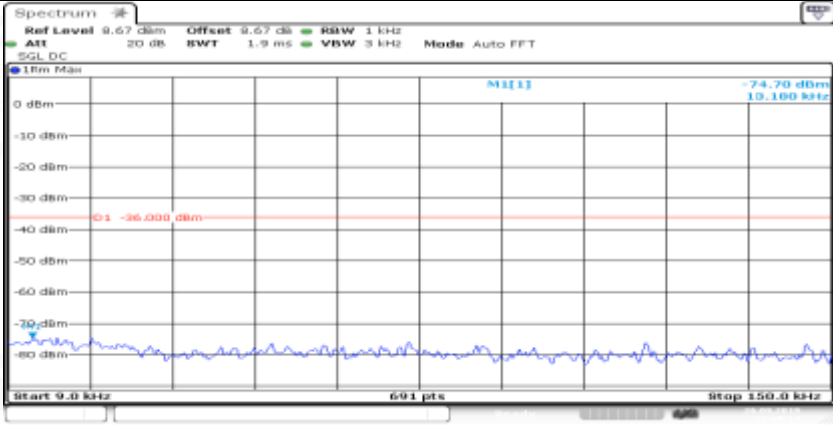


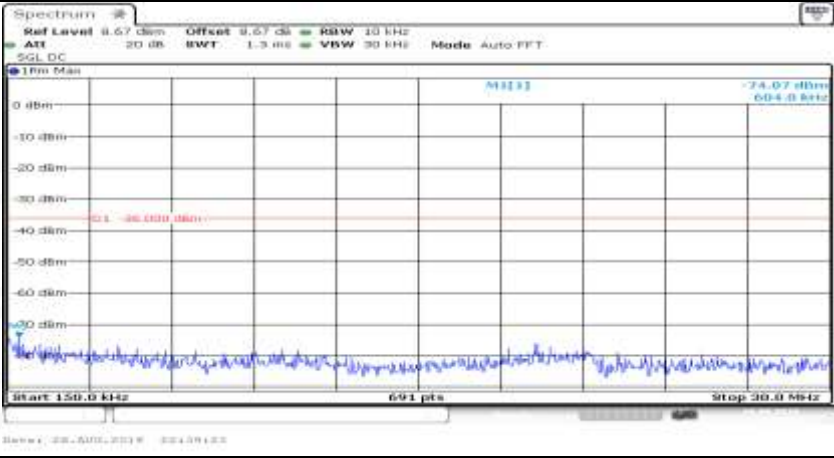
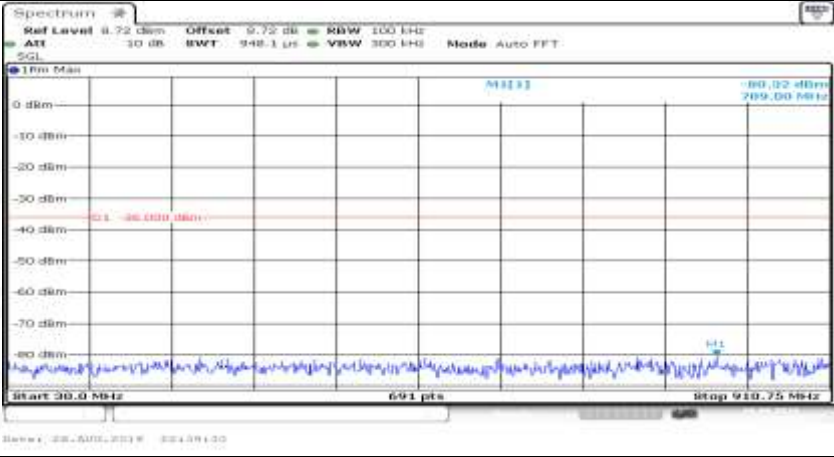
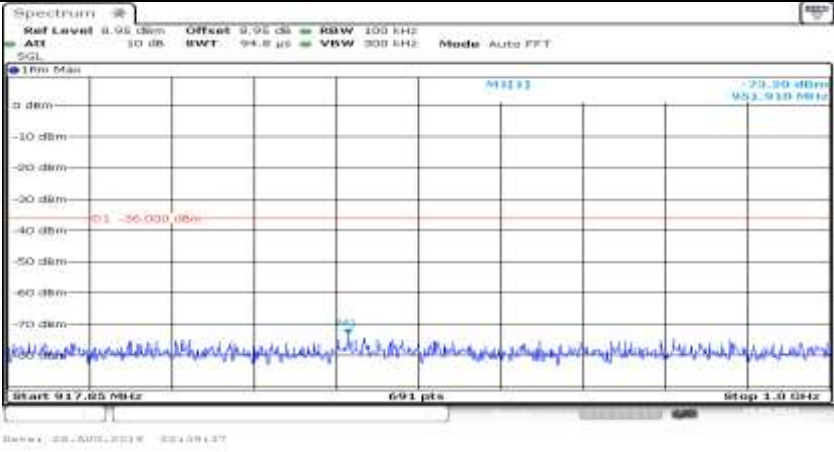


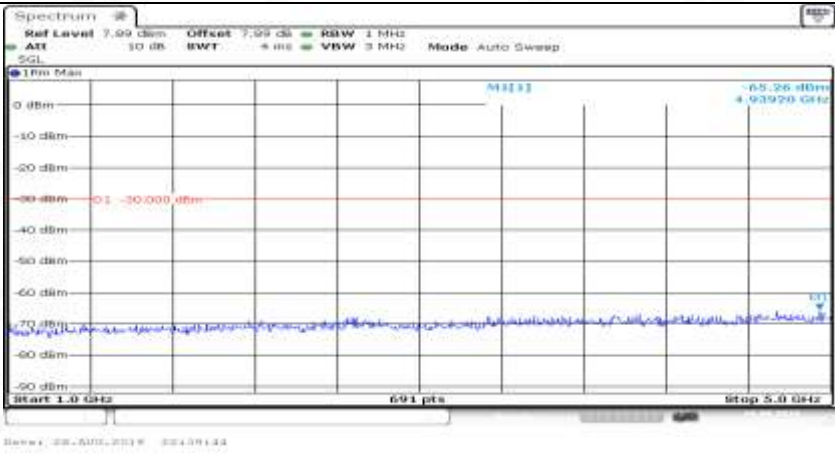
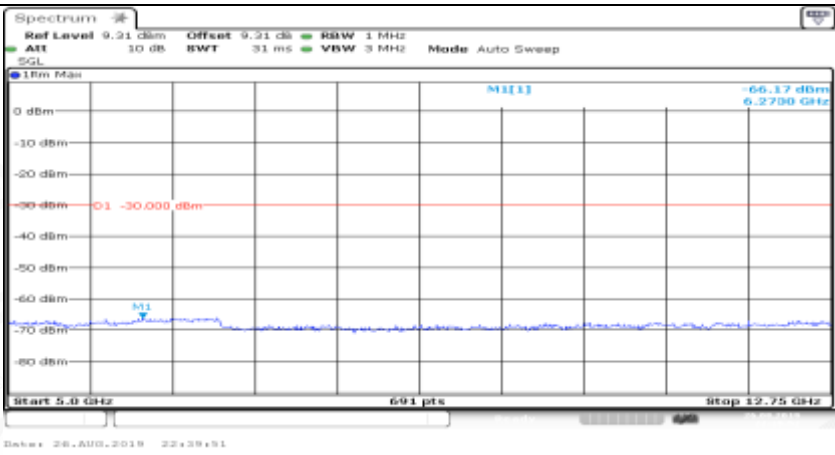
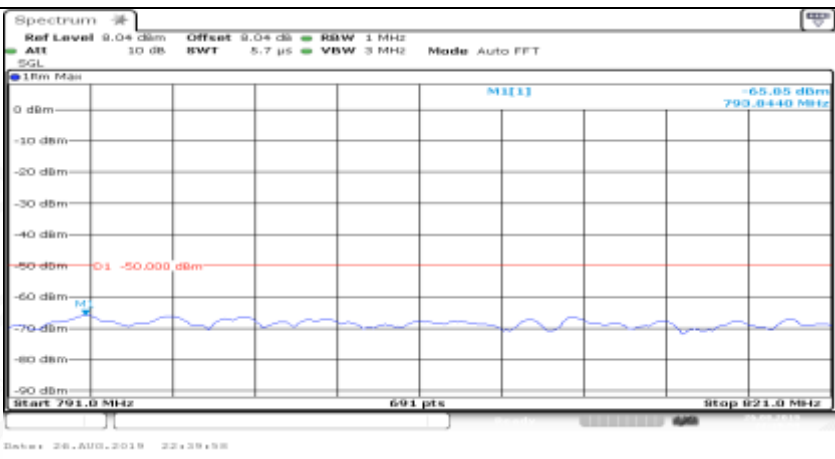
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Co-existence	

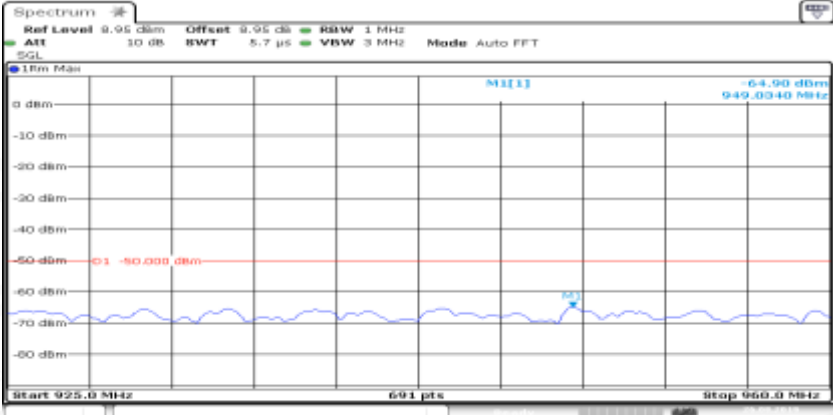
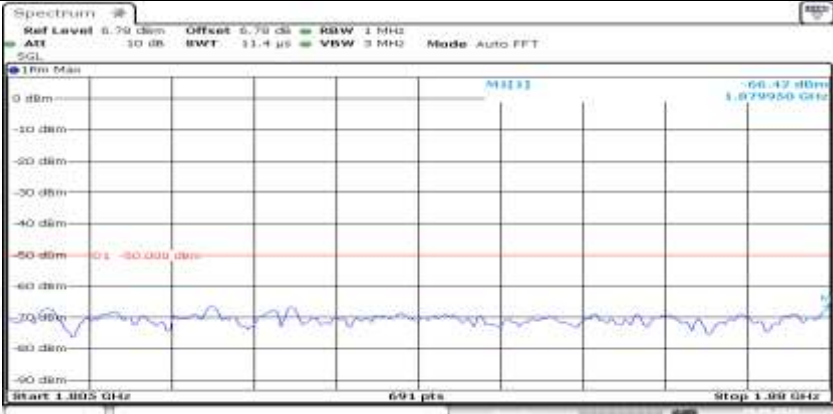
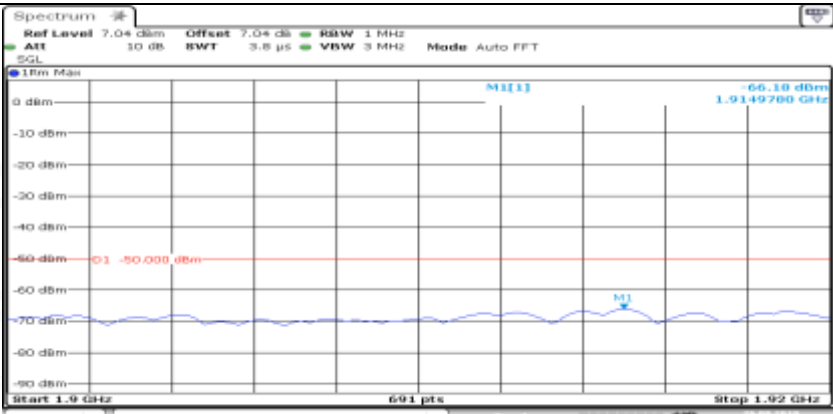
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Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0

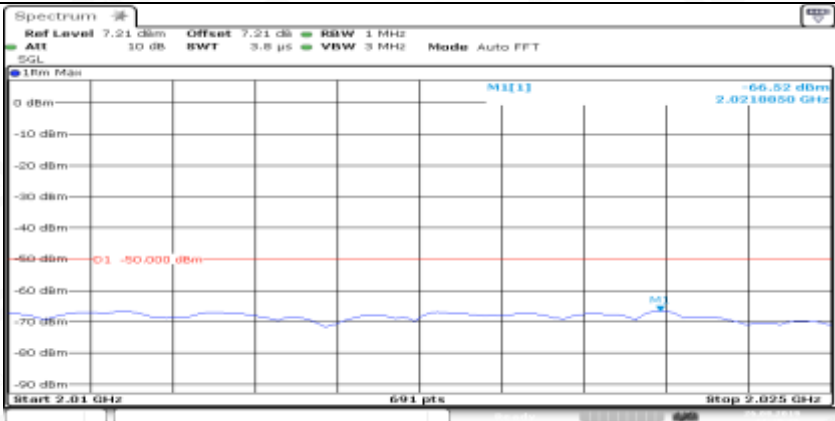
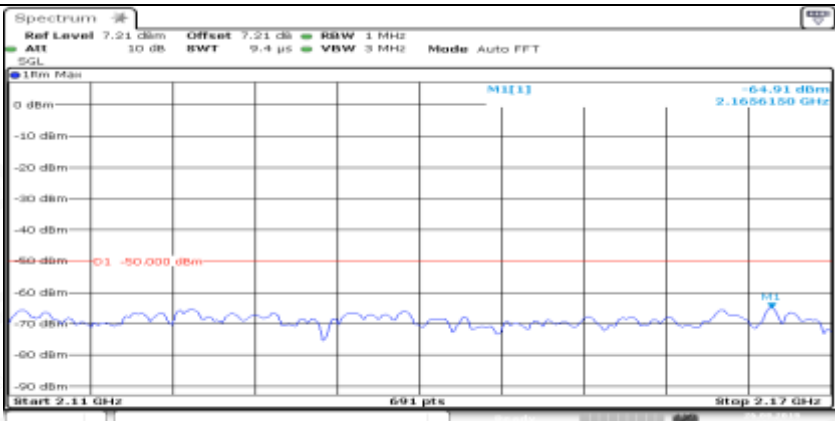

General	
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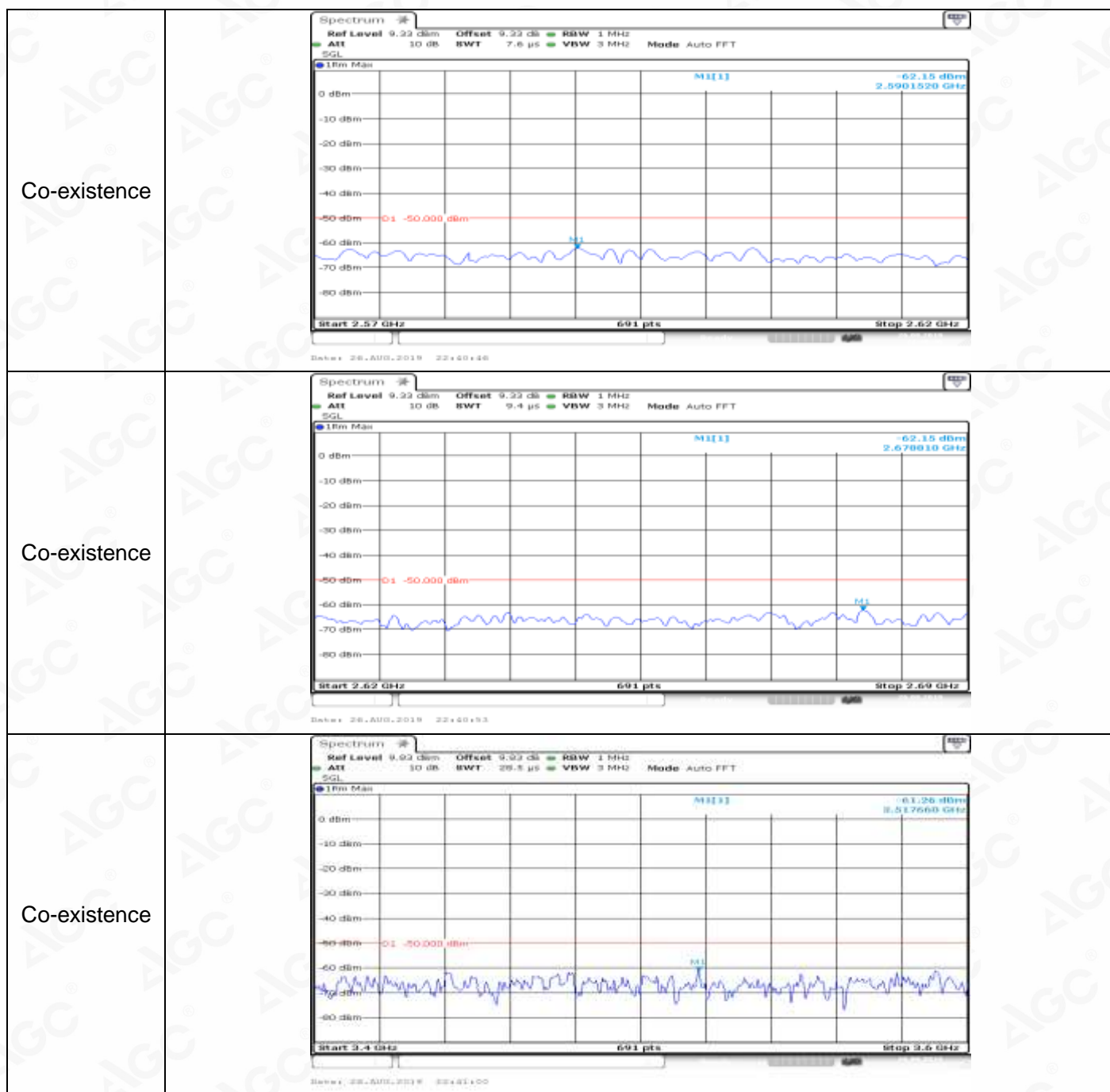
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General	
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Co-existence	

Co-existence	
Co-existence	
Co-existence	

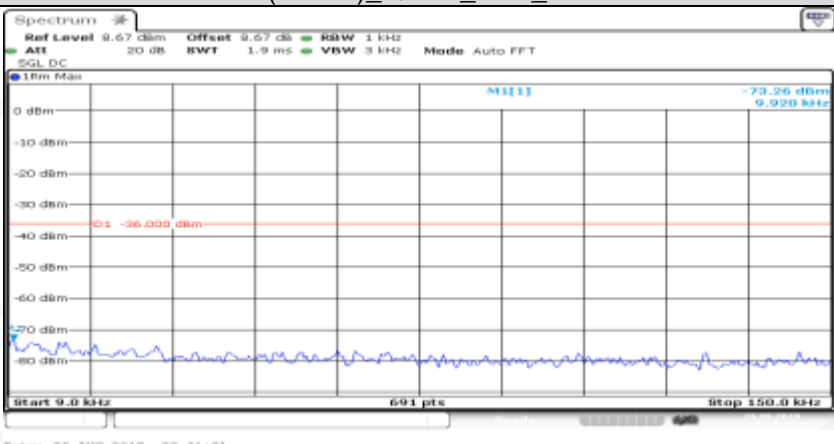
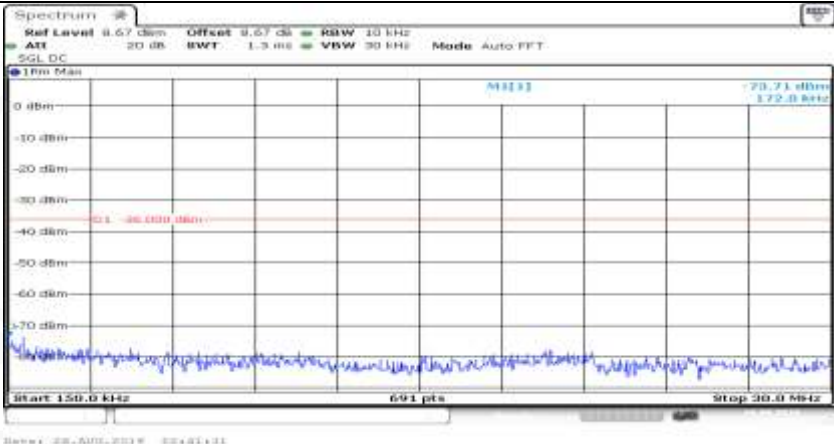


Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz Att 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT SGL 15m Max M1[1] -66.52 dBm 2.0210850 GHz Start 2.01 GHz 691 pts Stop 2.025 GHz Date: 26.AUG.2019 22:50:26</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz Att 10 dB SWT 9.4 μs VBW 3 MHz Mode Auto FFT SGL 15m Max M1[1] -64.91 dBm 2.1656150 GHz Start 2.11 GHz 691 pts Stop 2.17 GHz Date: 26.AUG.2019 22:50:33</p>
Co-existence	 <p>Ref Level 7.99 dBm Offset 7.99 dB BW 1 MHz Att 10 dB SWT 15.3 μs VBW 3 MHz Mode Auto FFT SGL 15m Max M1[1] -64.67 dBm 2.404330 GHz Start 2.3 GHz 691 pts Stop 2.4 GHz Date: 26.AUG.2019 22:50:38</p>

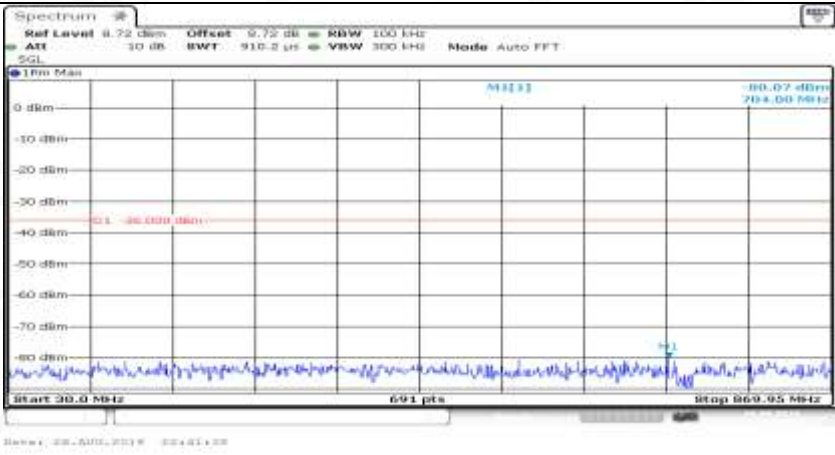
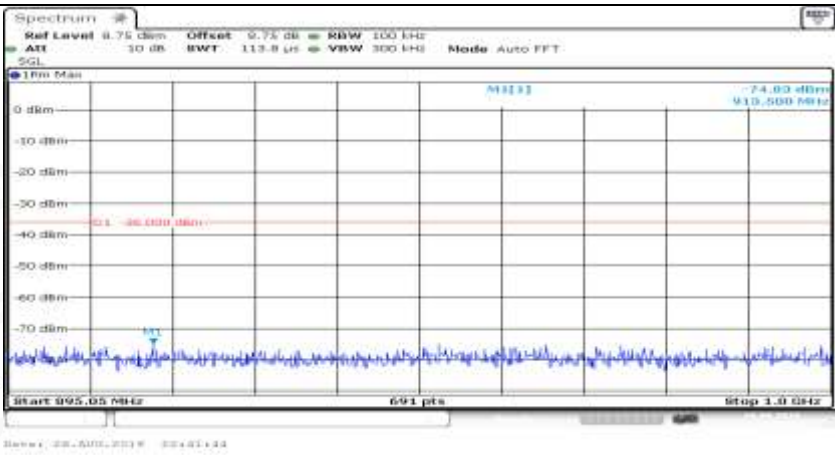
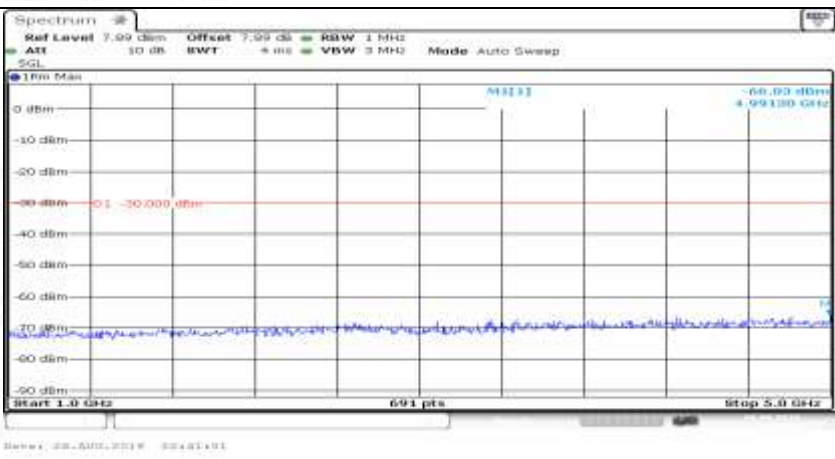


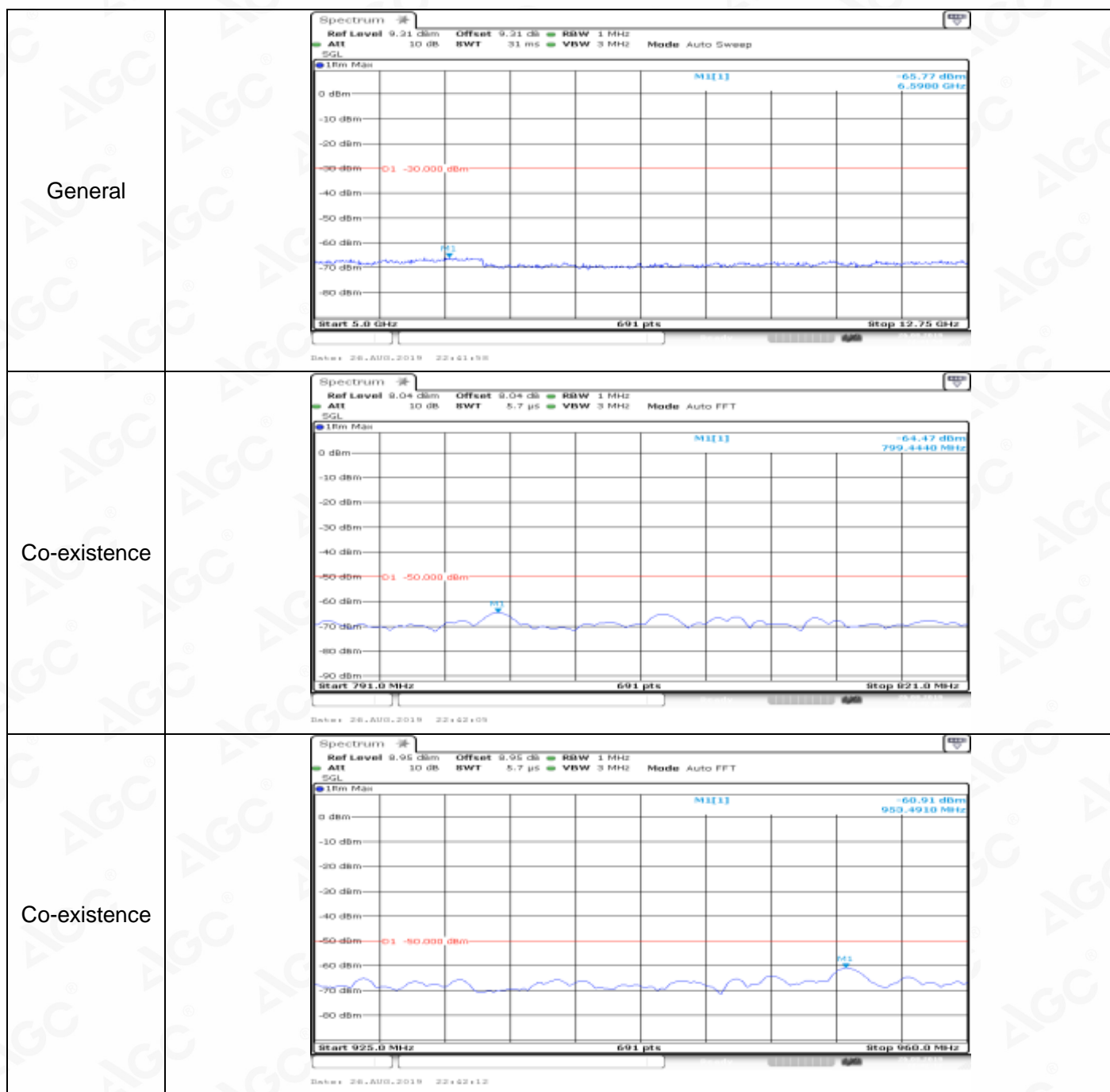
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)

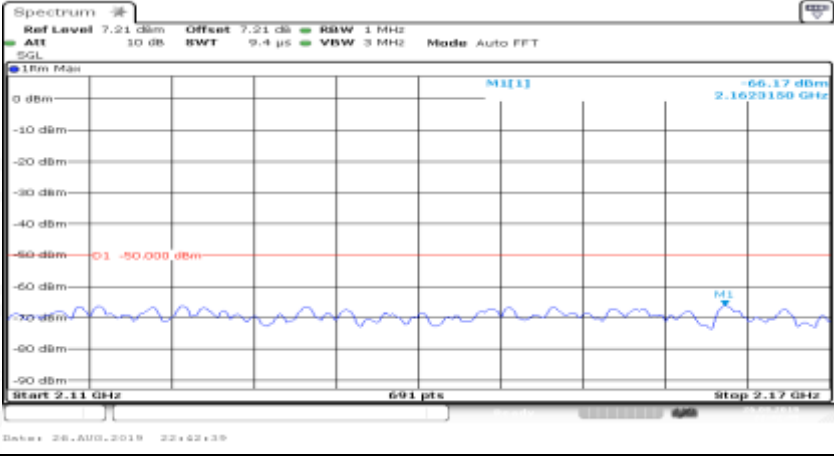
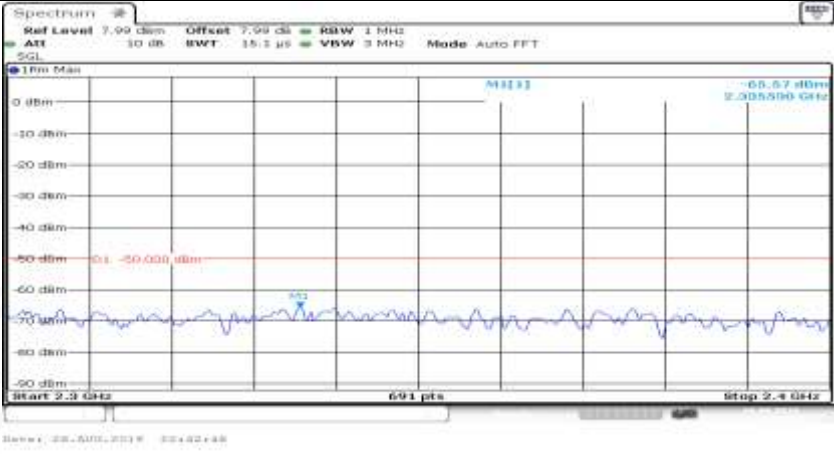
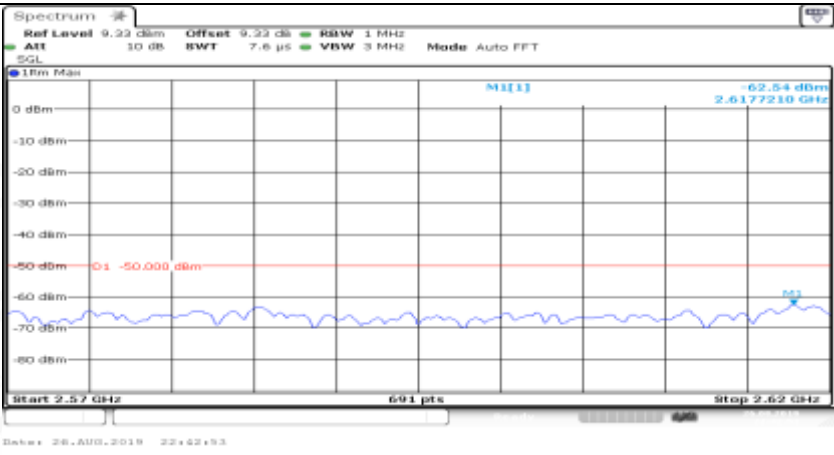
Channel Bandwidth=(5 MHz)_QPSK_LCH_1RB#0	
General	
General	

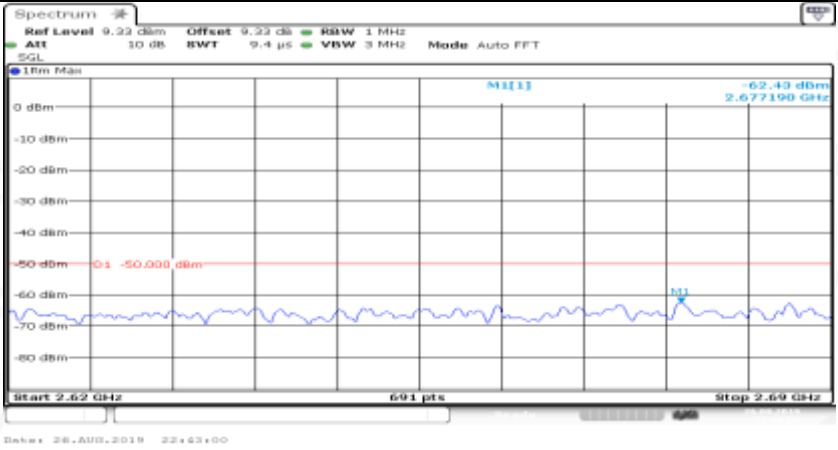
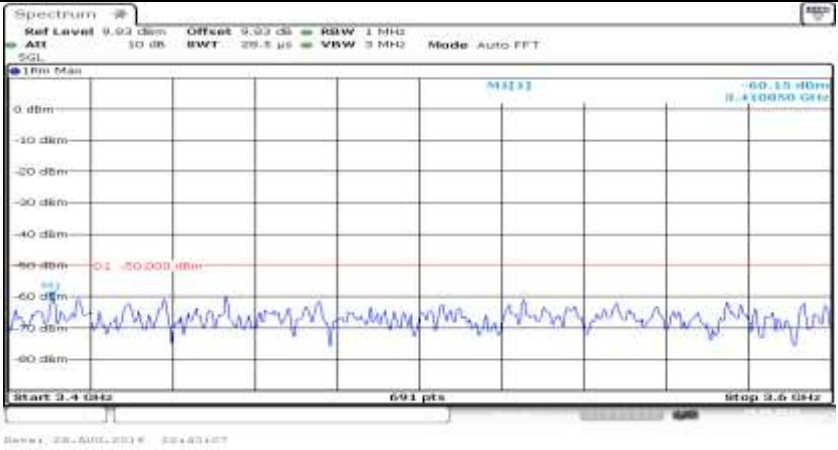
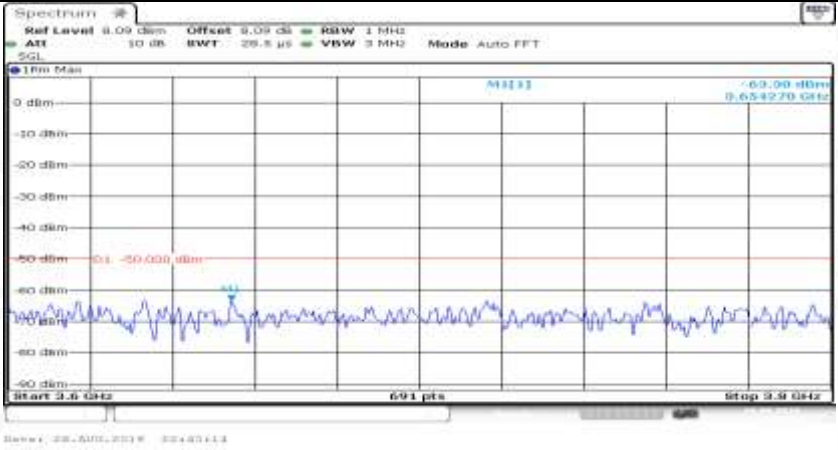


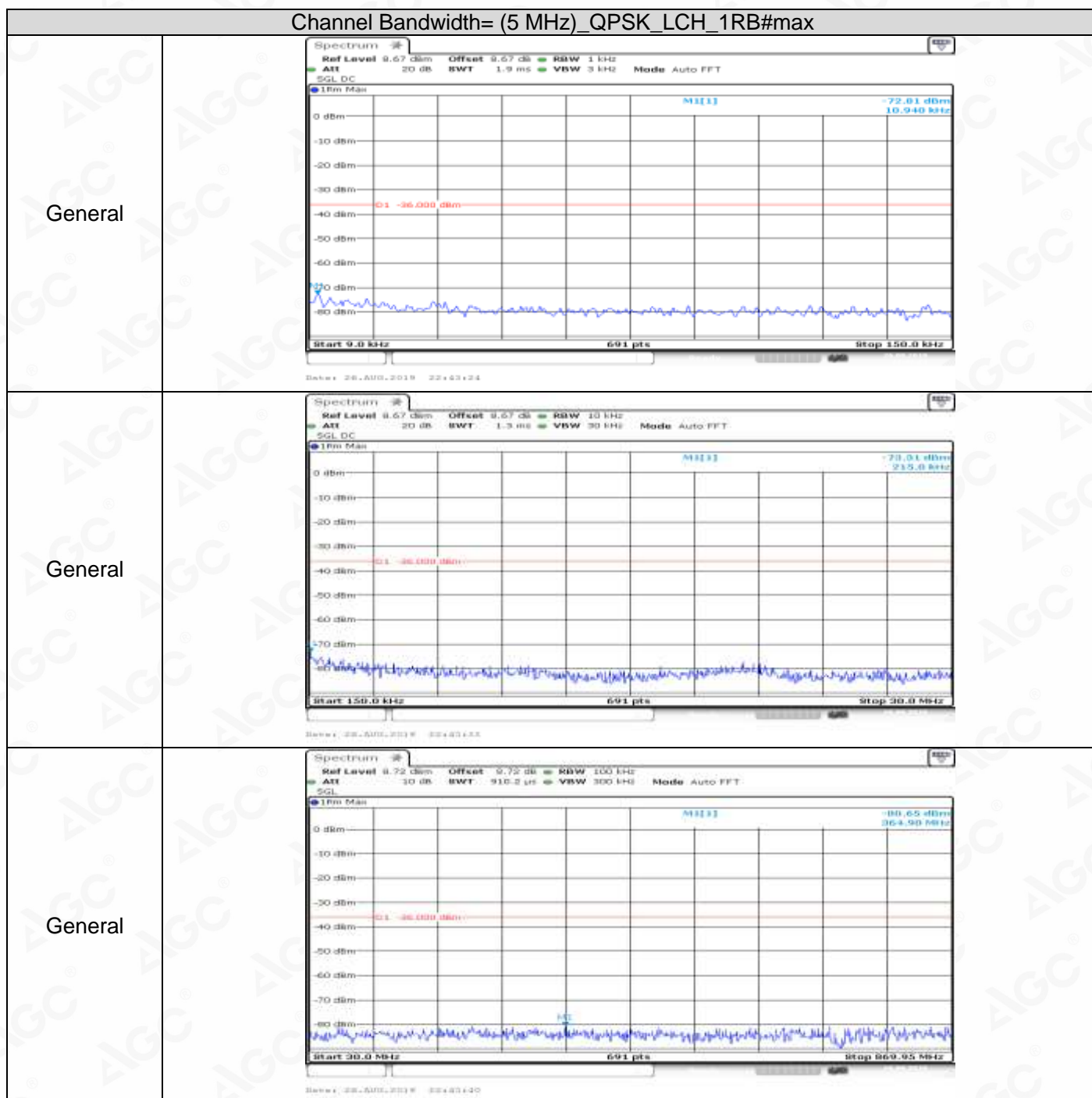
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General	

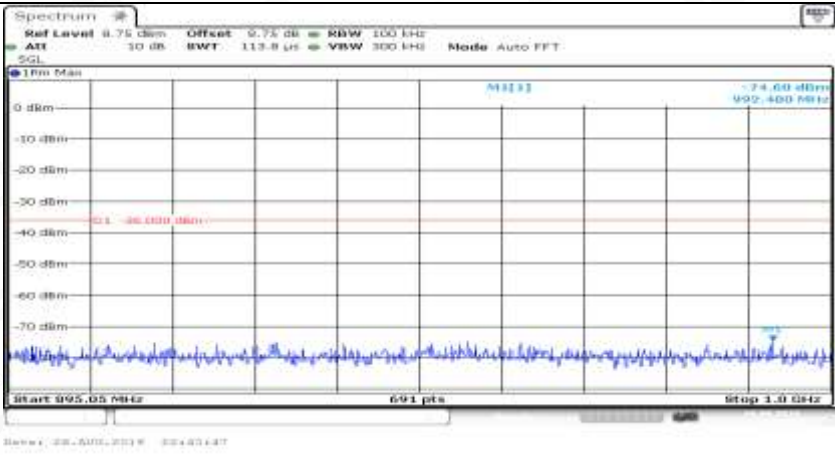
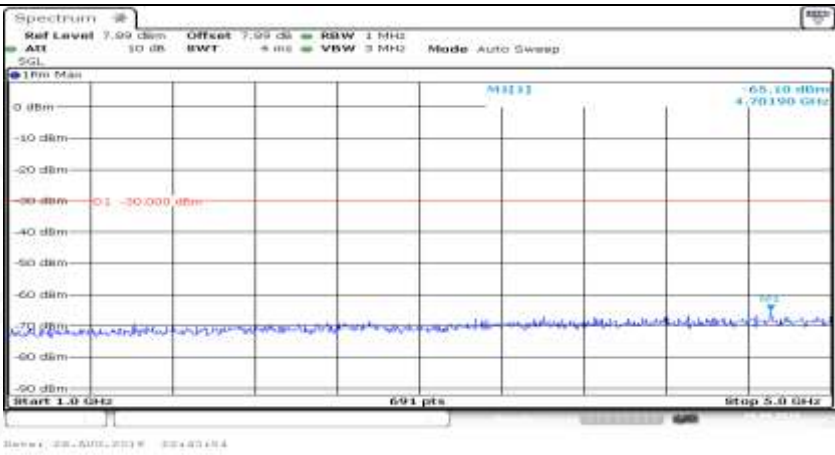
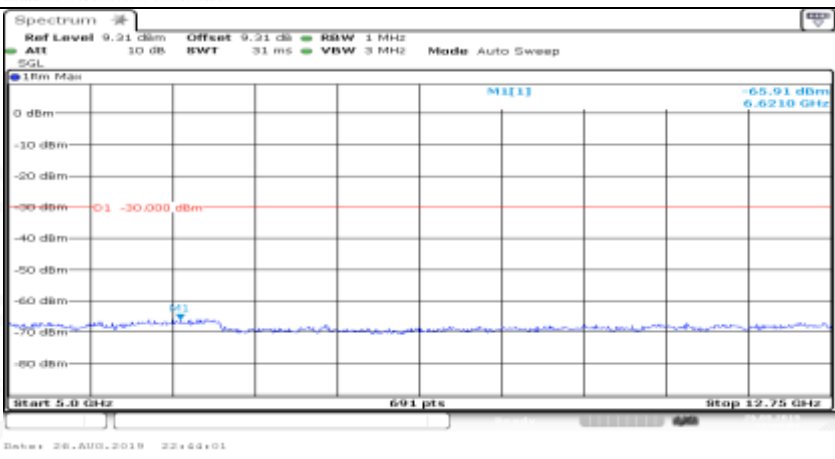


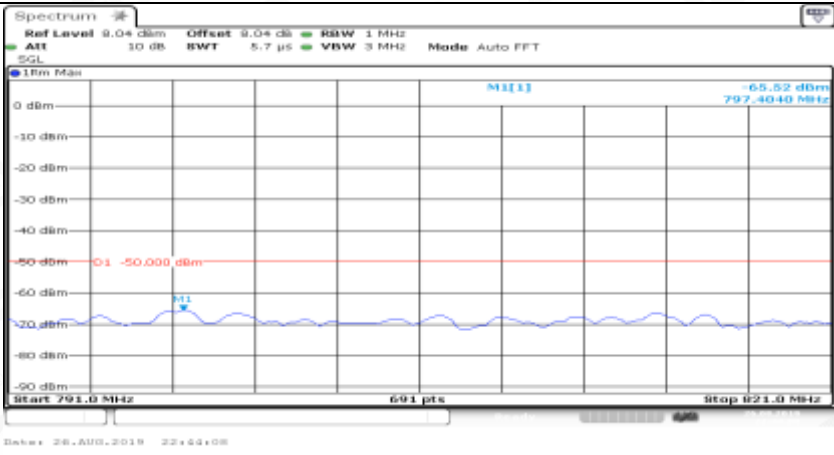
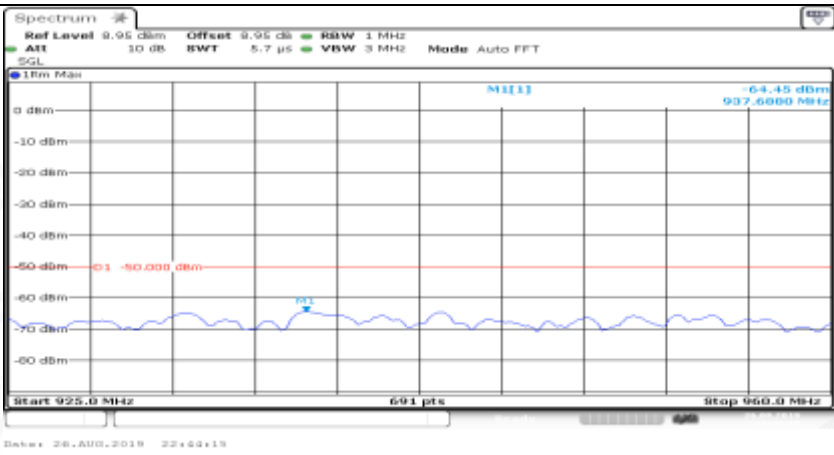

Attestation of Global Compliance

Co-existence	
Co-existence	
Co-existence	

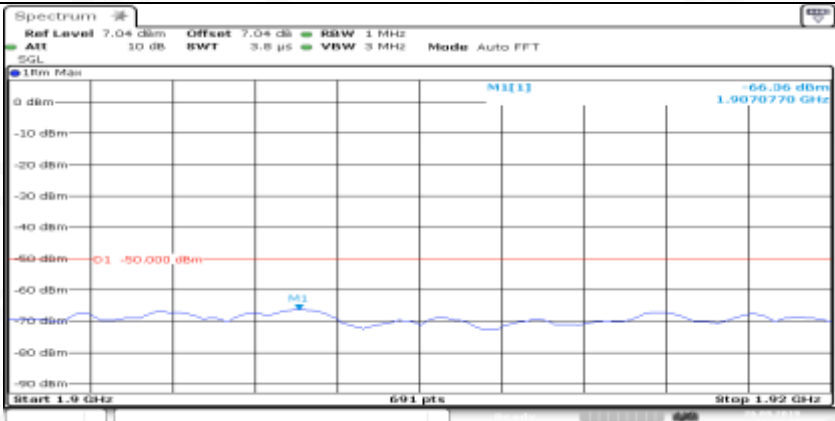
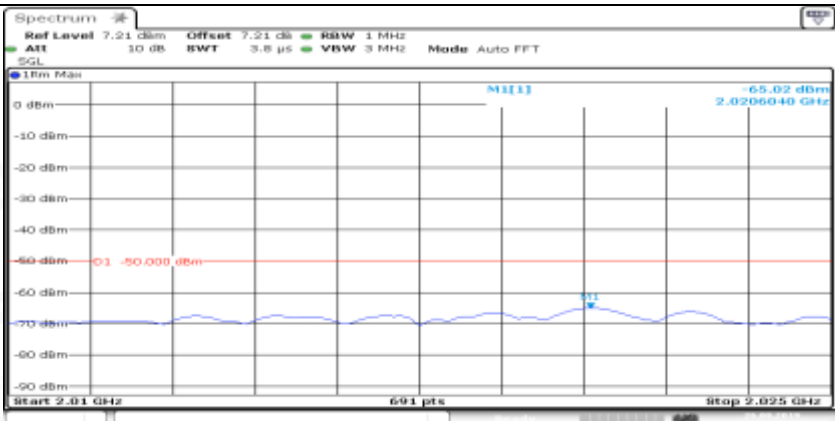
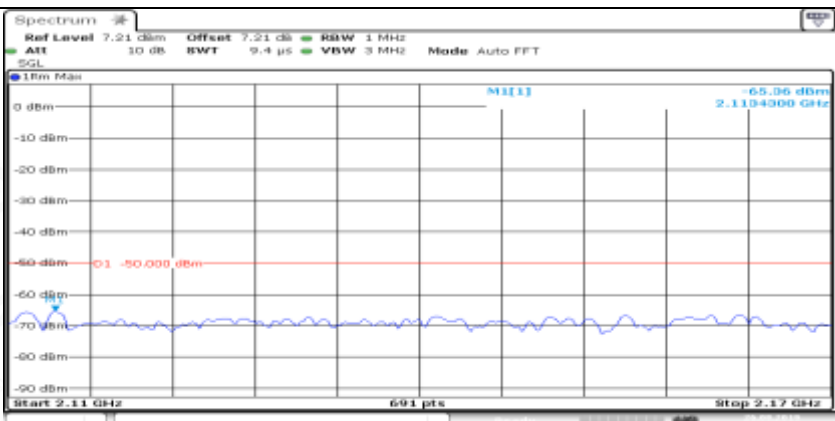
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Co-existence	
Additional	NA


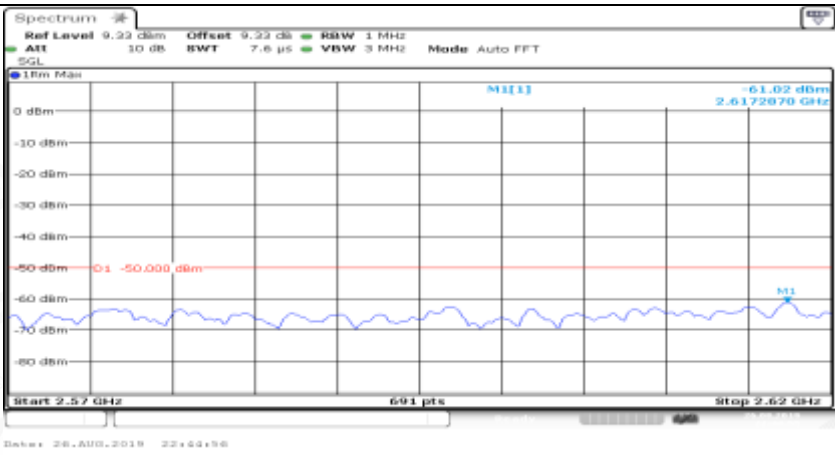
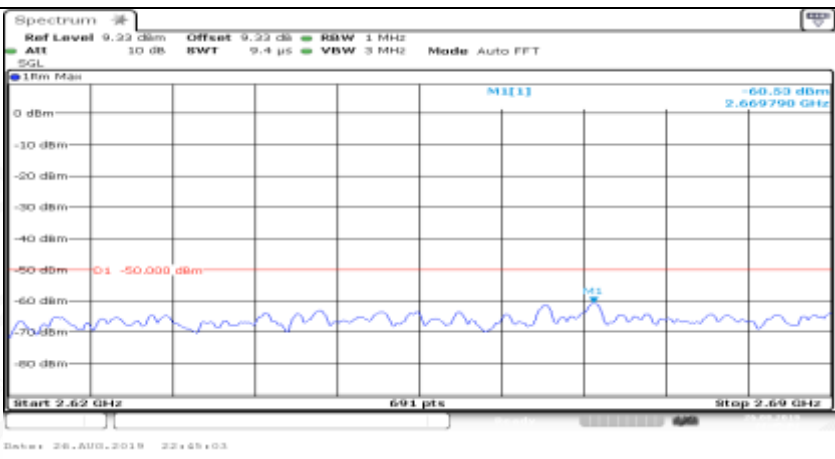


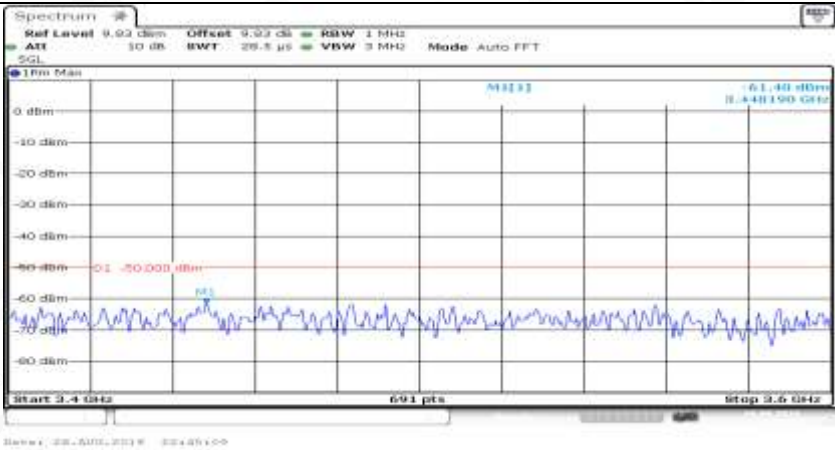
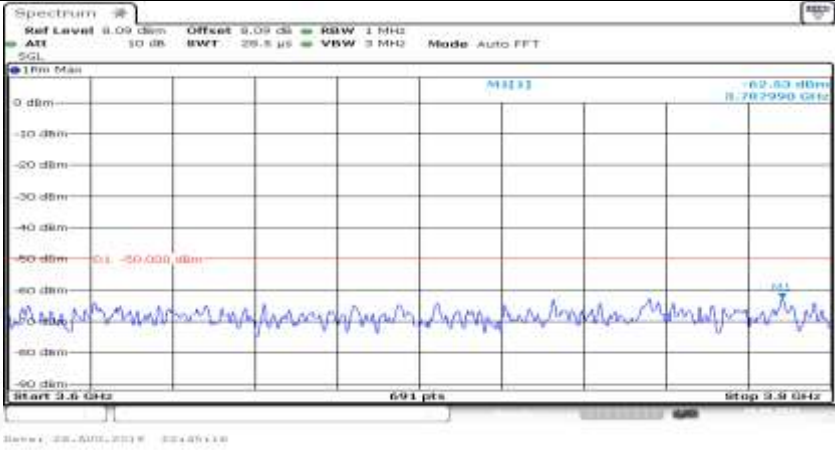
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General	

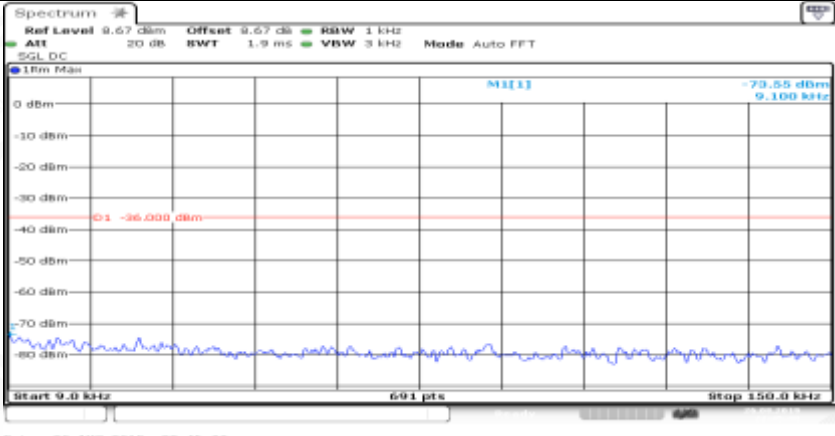
Co-existence	
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Co-existence	

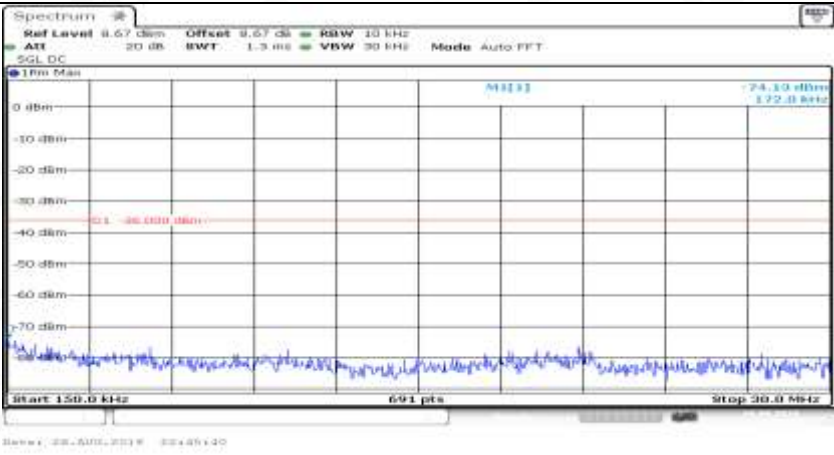
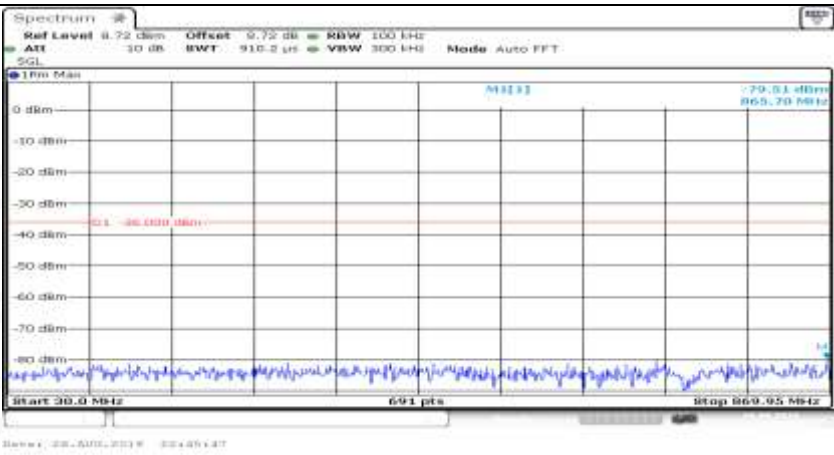
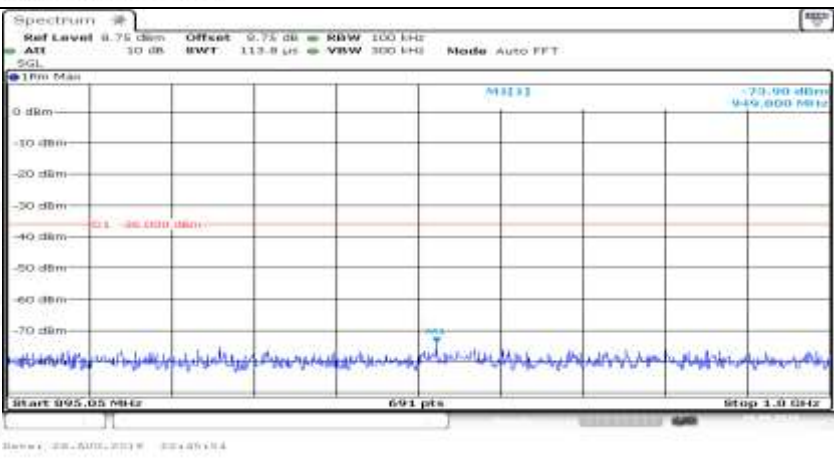


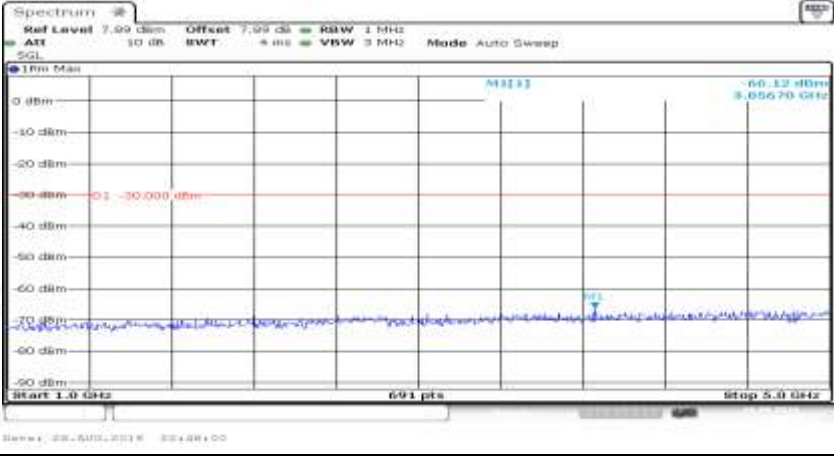
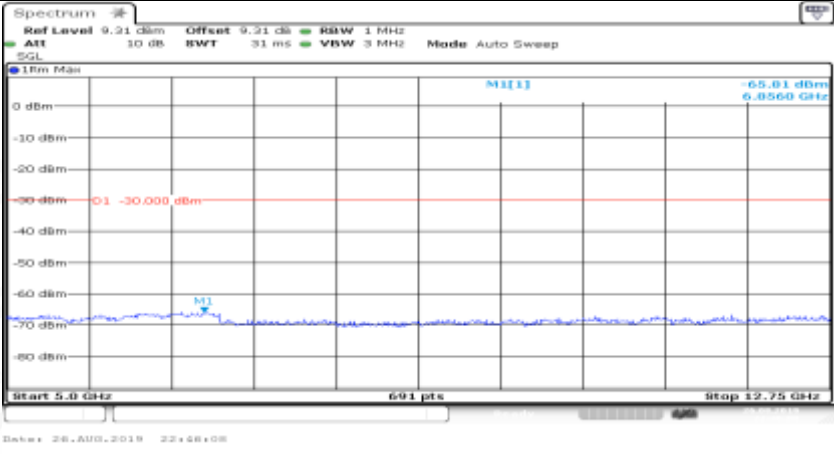
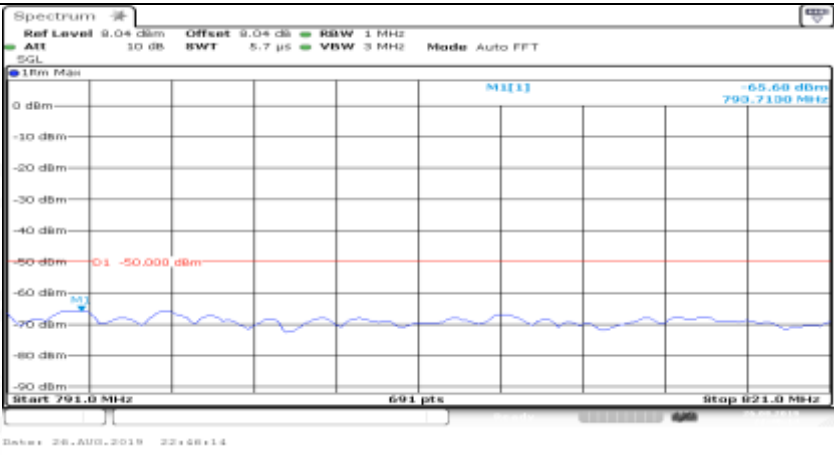
Co-existence	 <p>Spectrum plot showing signal level (dBm) vs frequency (GHz). The plot displays a blue signal line fluctuating around -70 dBm, with a red reference line at -50.000 dBm. The frequency range is from 1.9 GHz to 1.92 GHz. The y-axis ranges from 0 dBm to -90 dBm.</p>
Co-existence	 <p>Spectrum plot showing signal level (dBm) vs frequency (GHz). The plot displays a blue signal line fluctuating around -70 dBm, with a red reference line at -50.000 dBm. The frequency range is from 2.01 GHz to 2.025 GHz. The y-axis ranges from 0 dBm to -90 dBm.</p>
Co-existence	 <p>Spectrum plot showing signal level (dBm) vs frequency (GHz). The plot displays a blue signal line fluctuating around -70 dBm, with a red reference line at -50.000 dBm. The frequency range is from 2.11 GHz to 2.17 GHz. The y-axis ranges from 0 dBm to -90 dBm.</p>

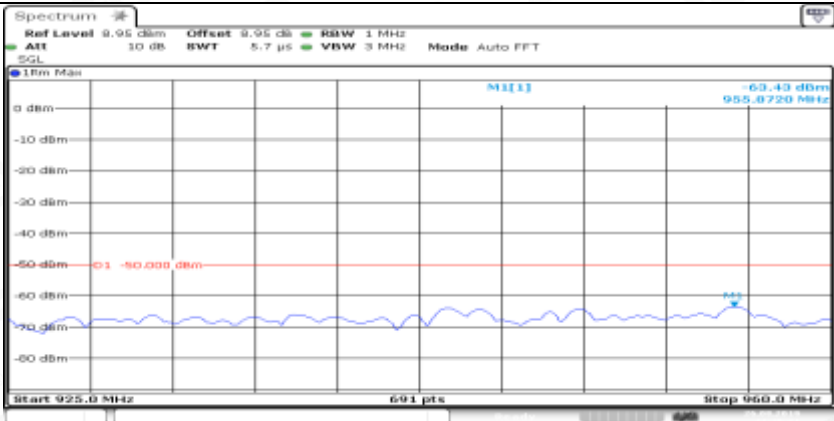

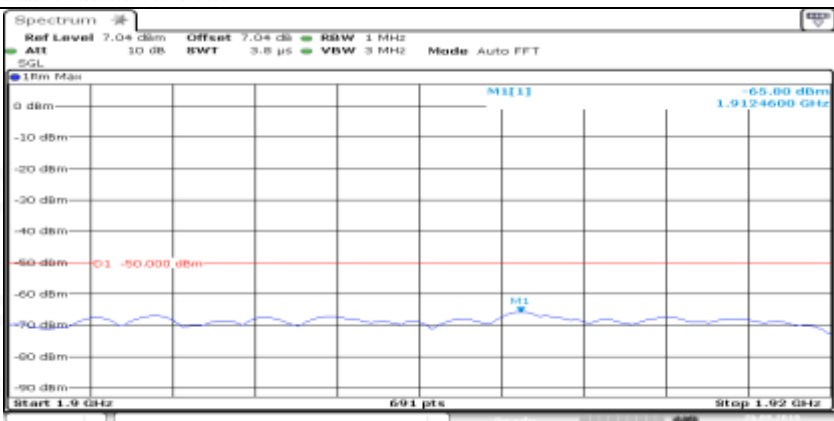
Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Additional	NA

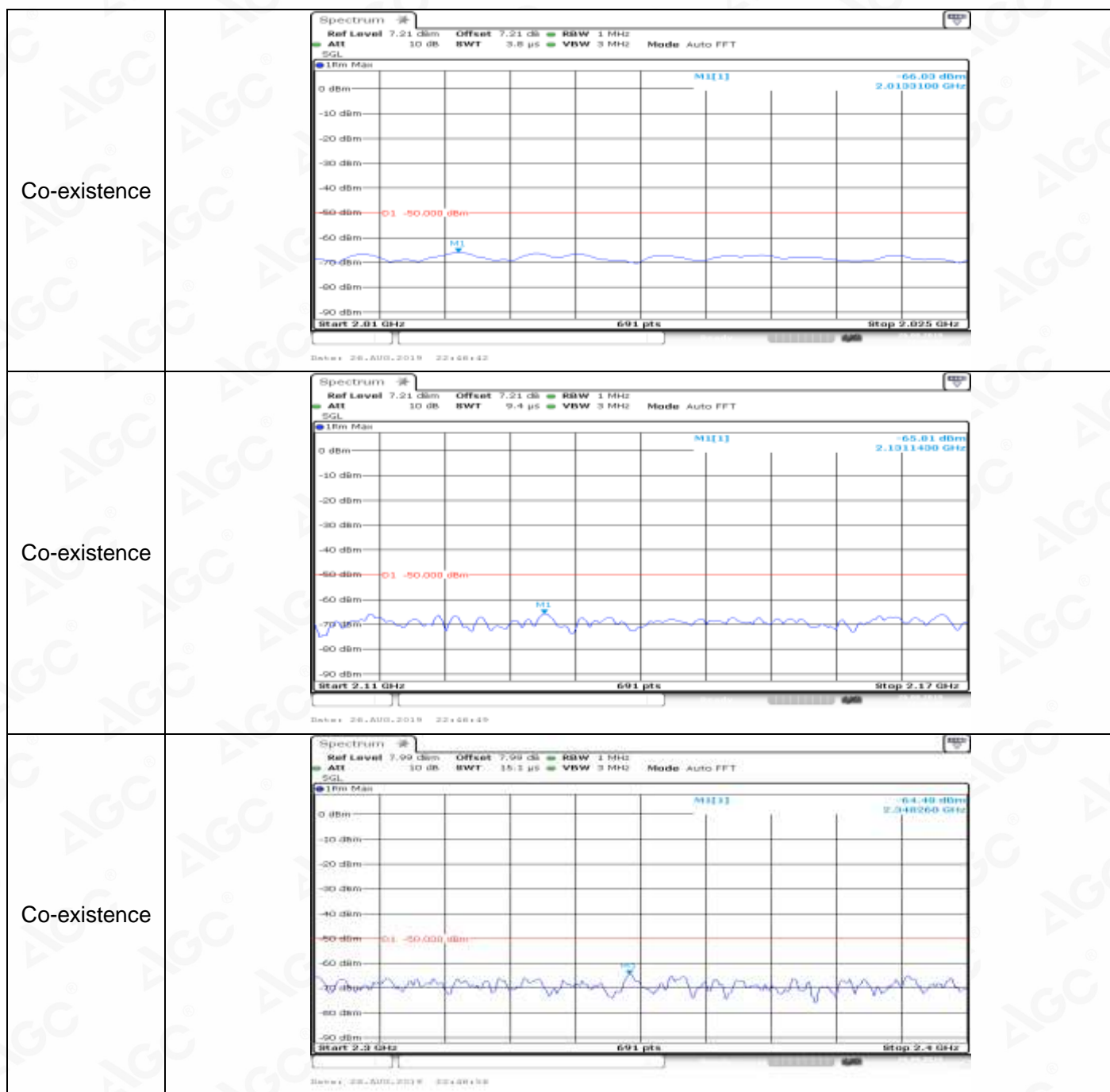
Channel Bandwidth= (5 MHz)_QPSK_LCH_FullRB#0	
General	

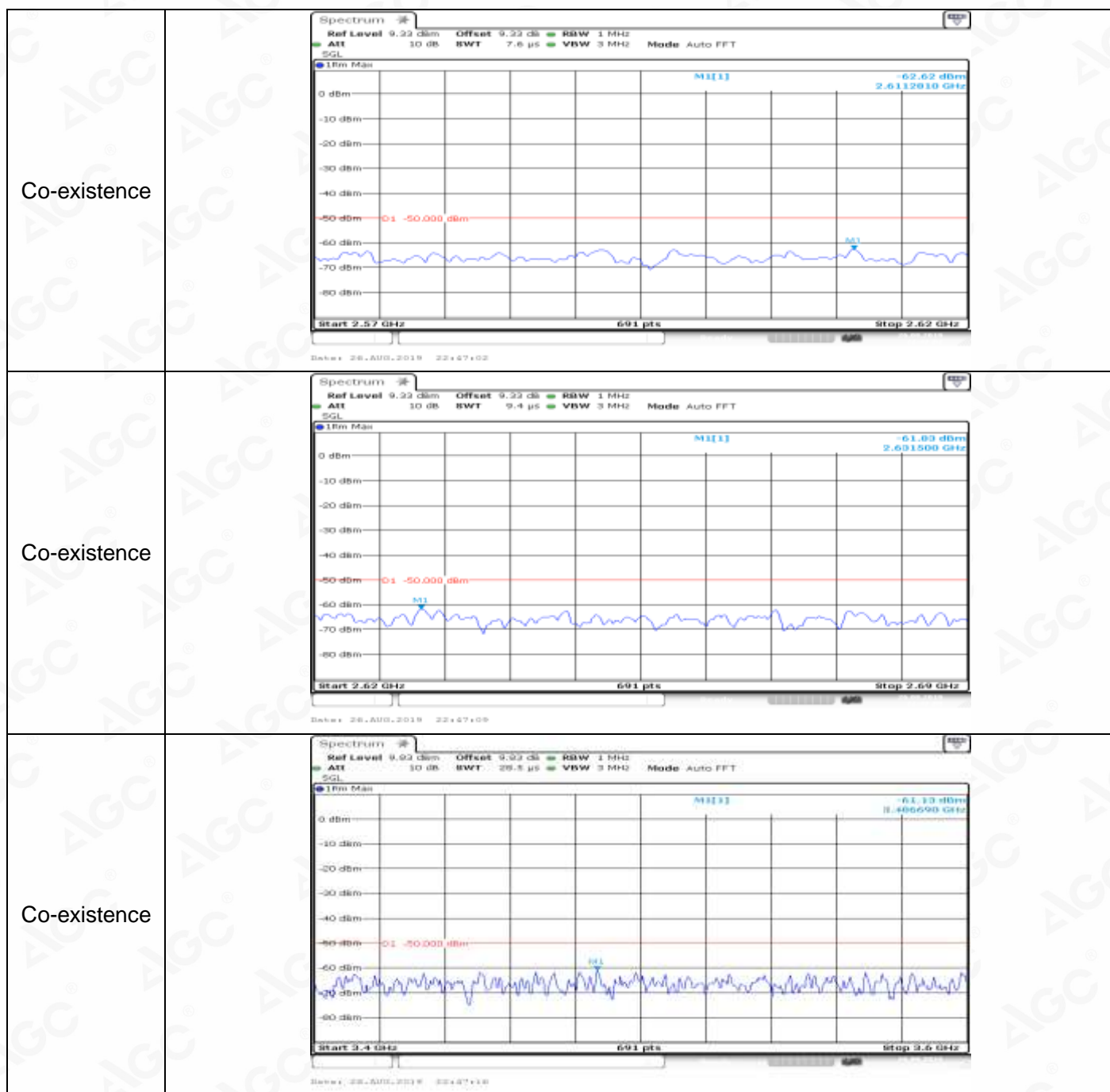
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General	

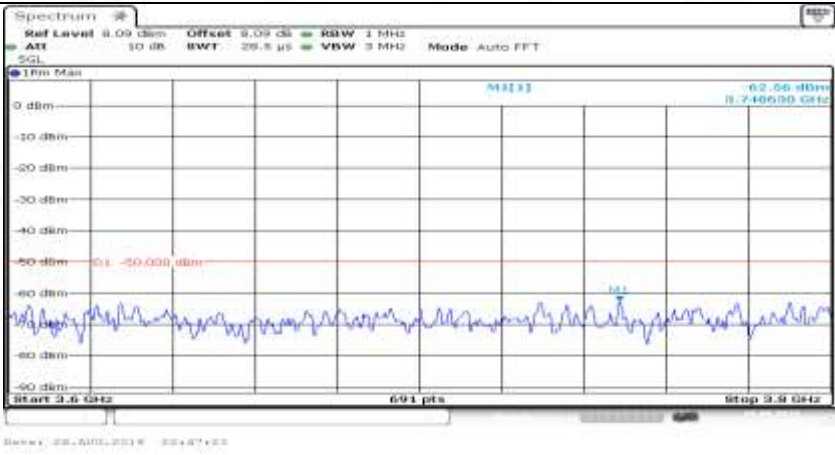
General	
General	
Co-existence	

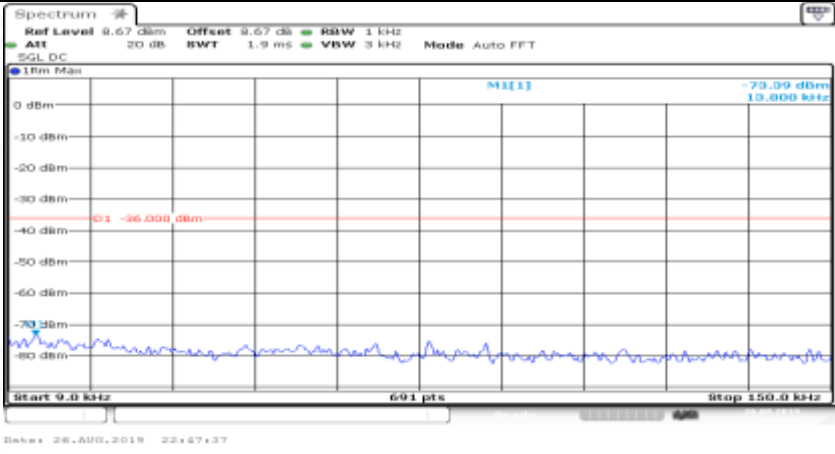
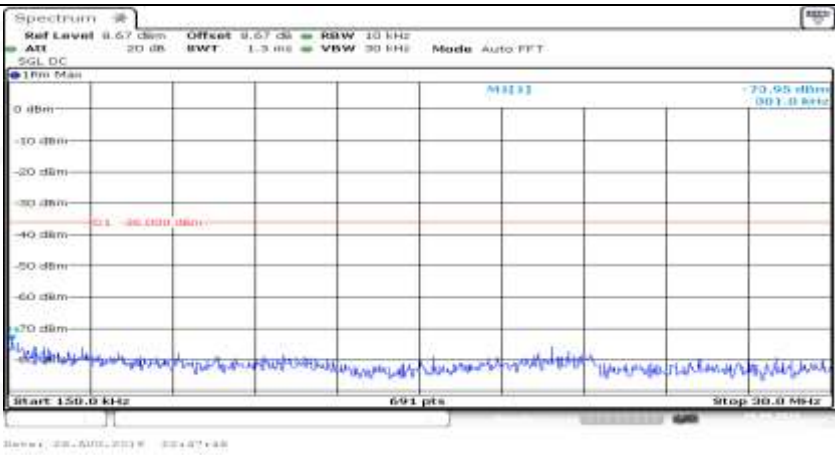
Co-existence	
Co-existence	
Co-existence	

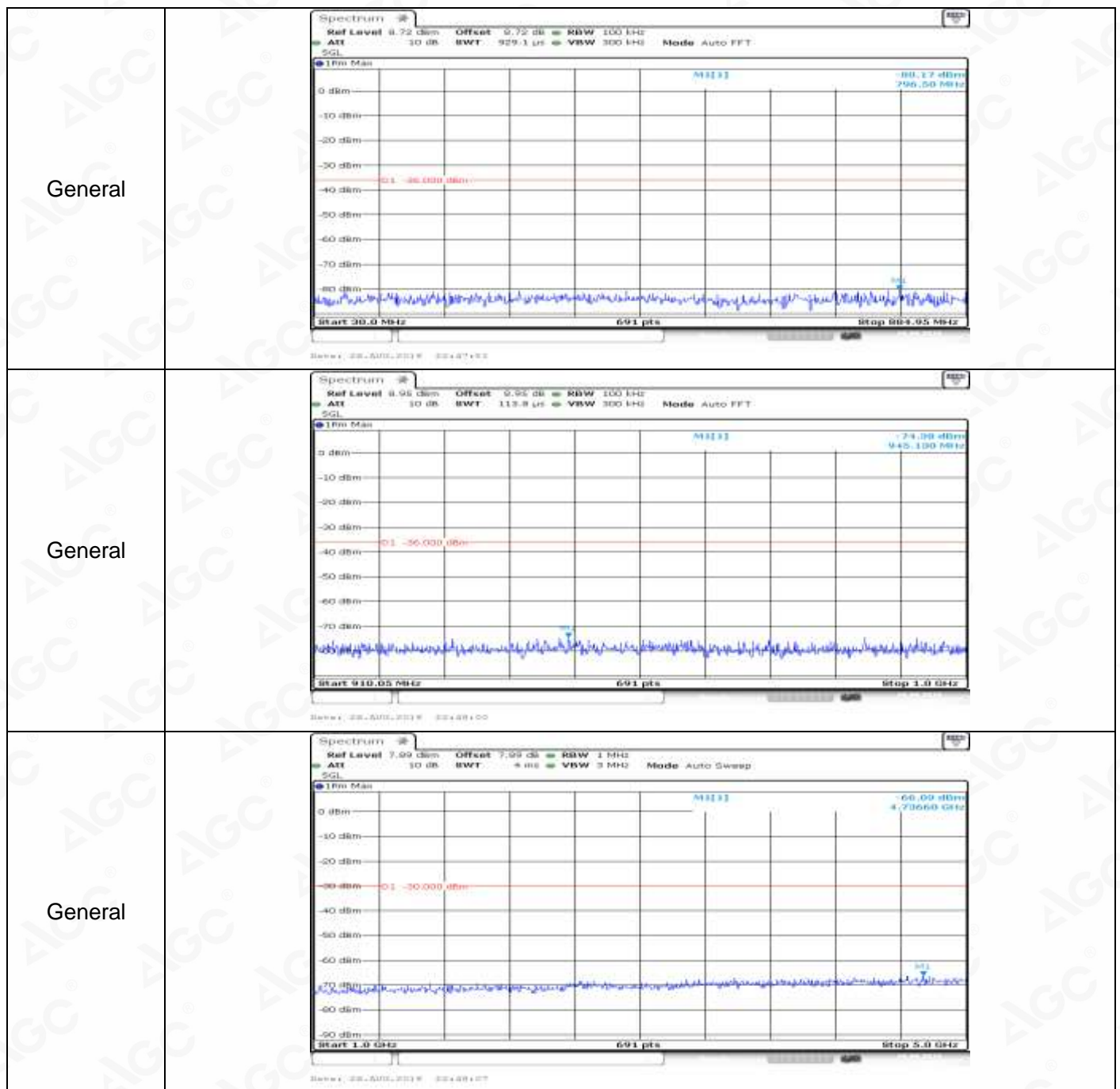


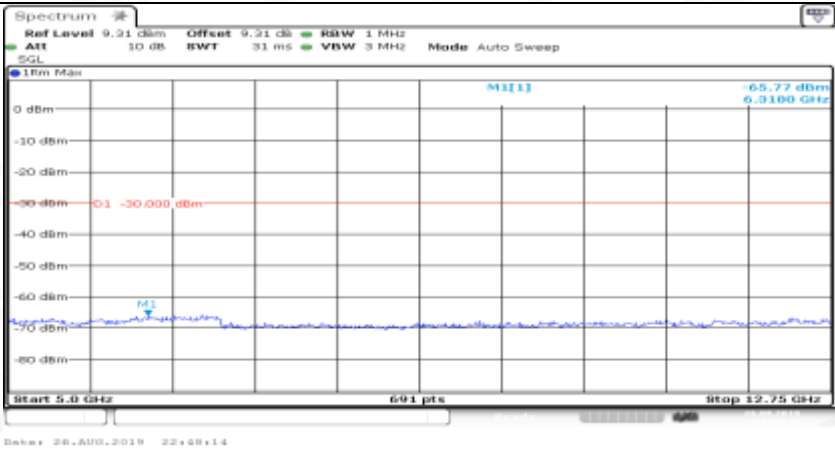
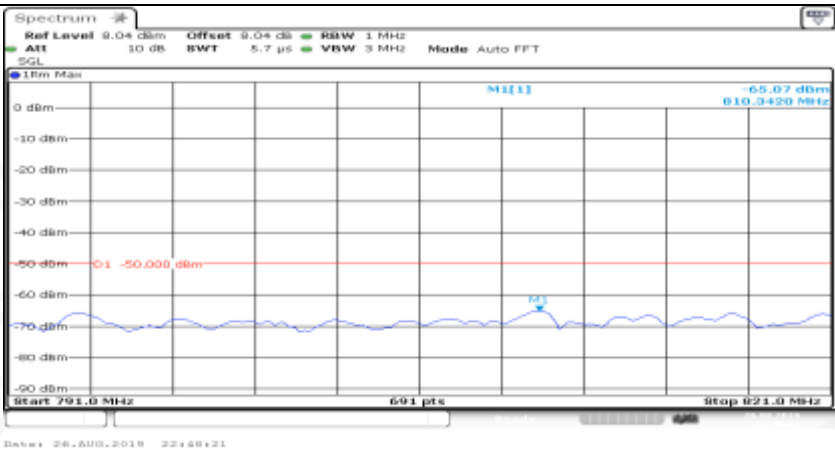
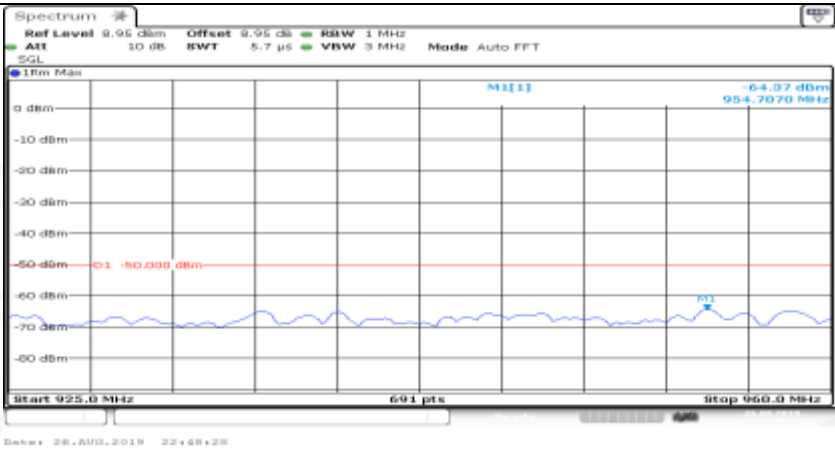



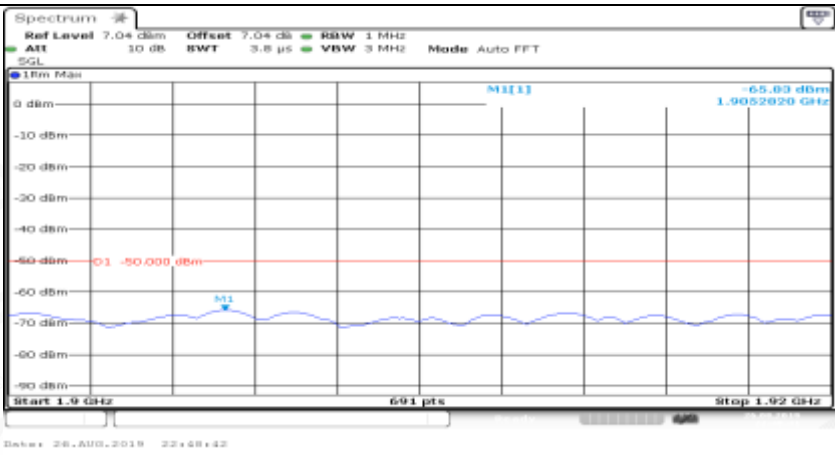
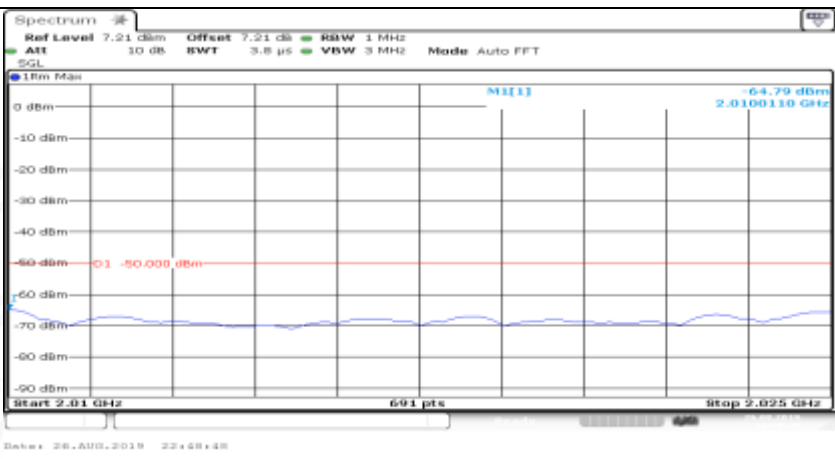


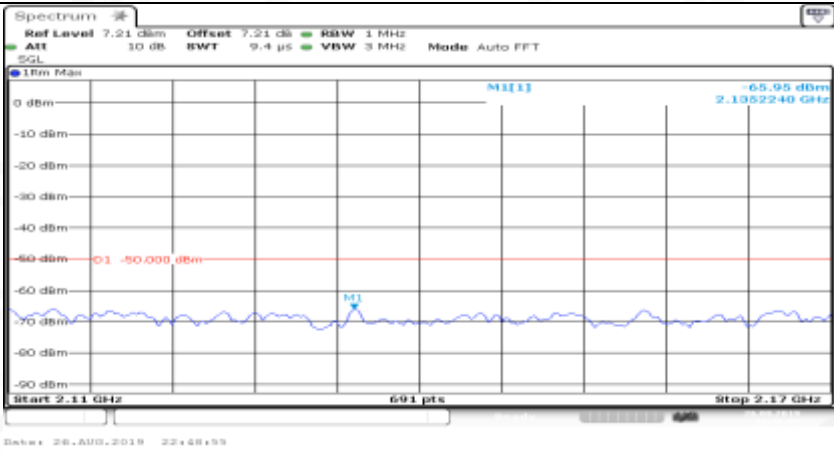

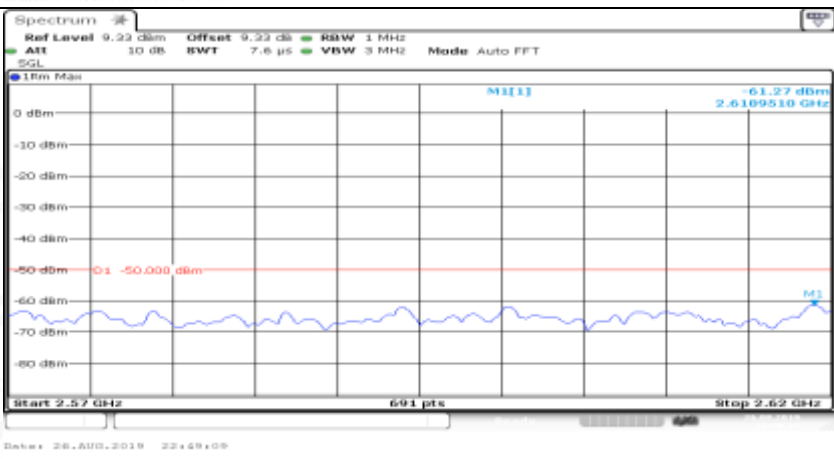
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	
General	

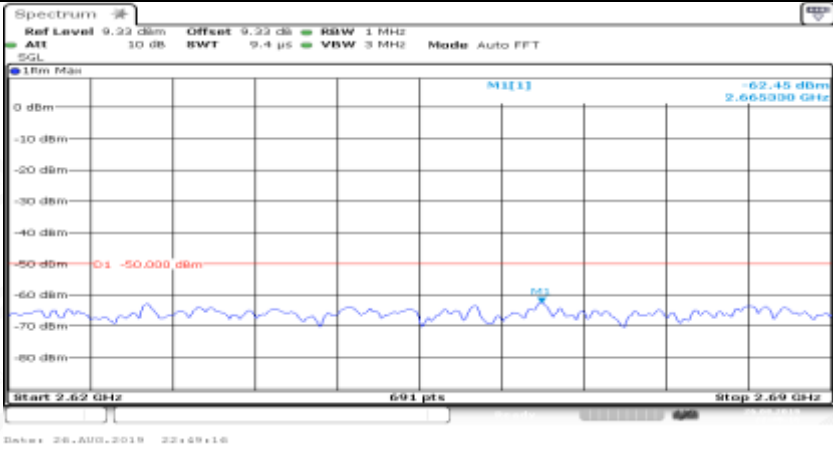
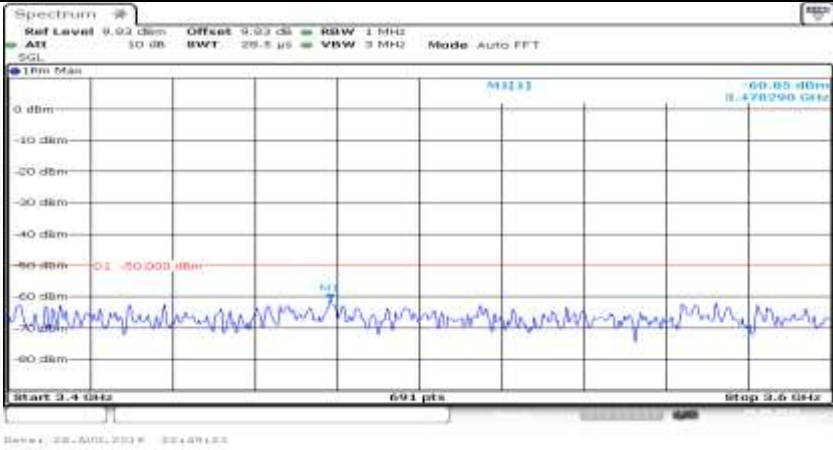
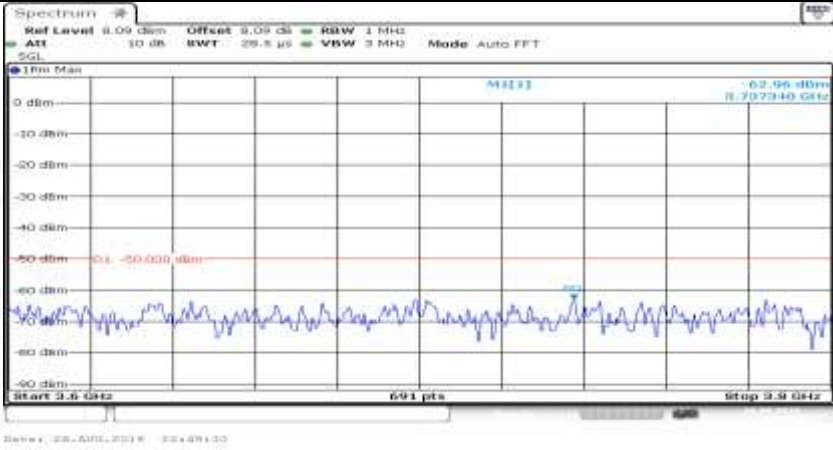


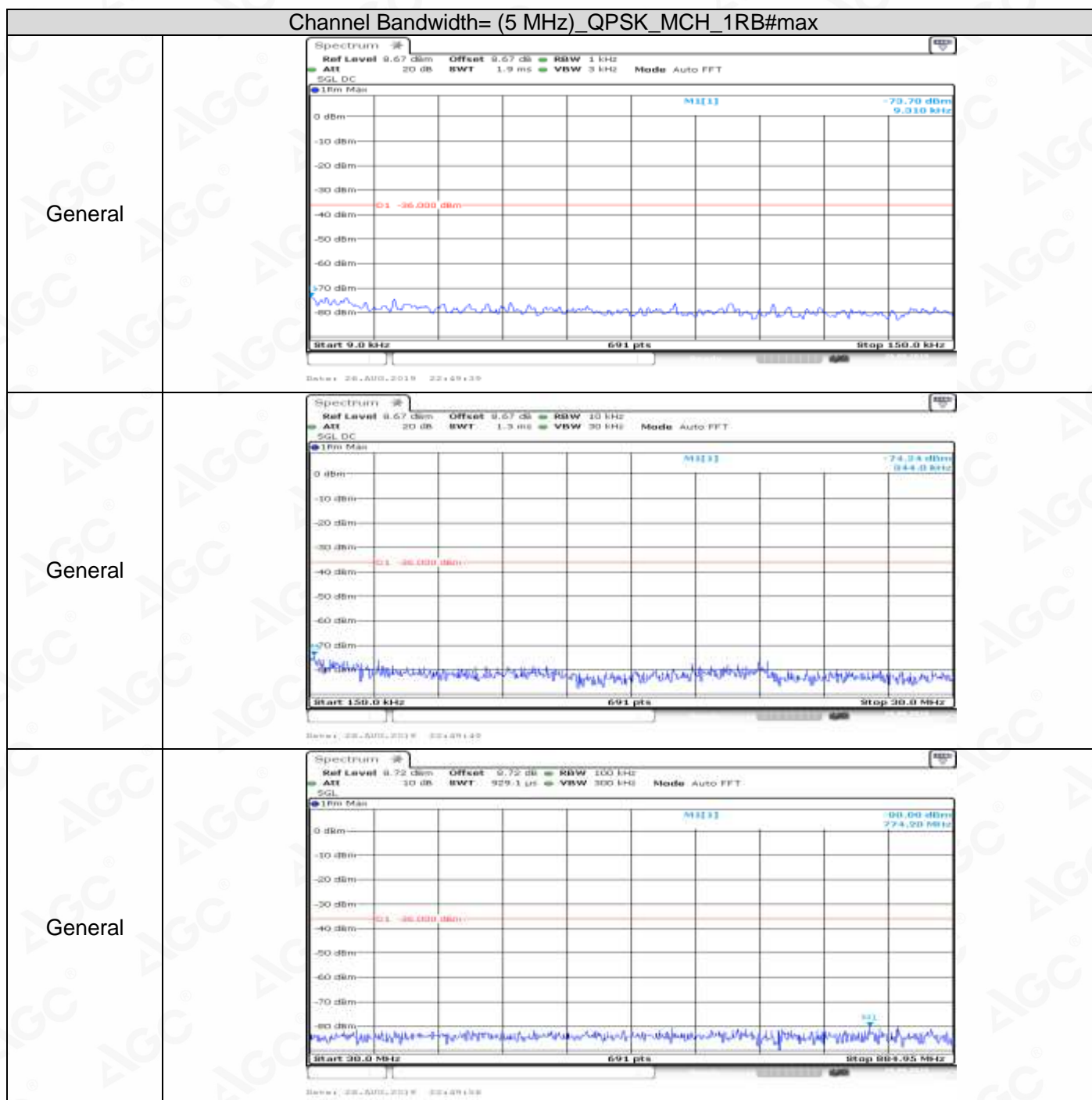
General	
Co-existence	
Co-existence	

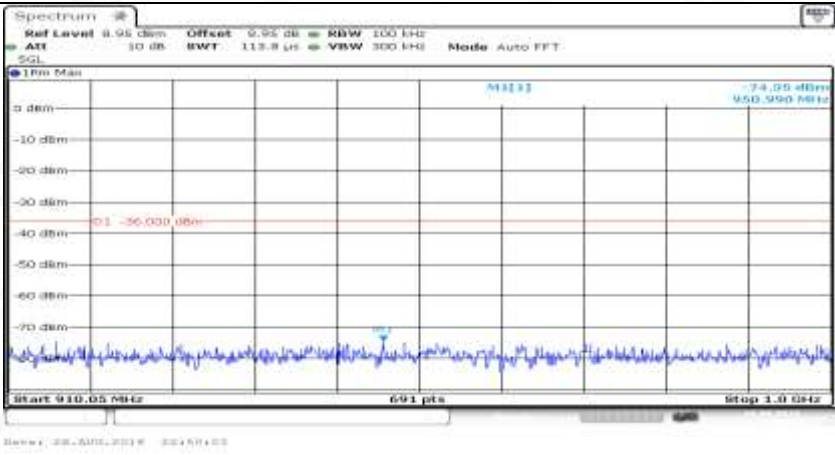
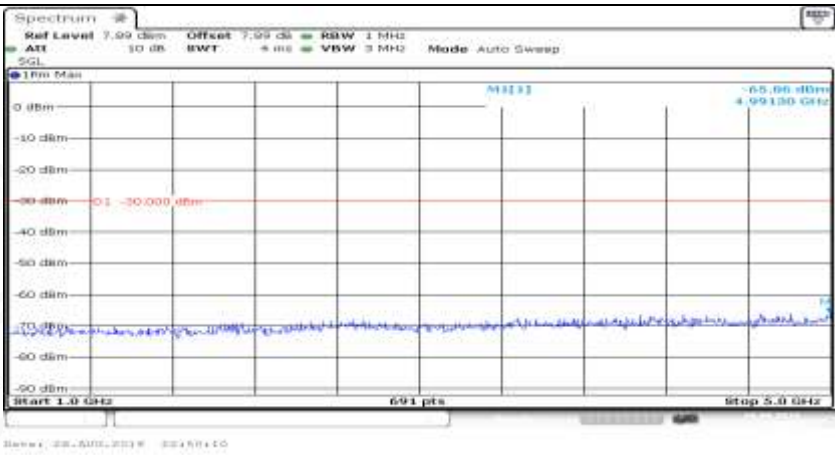
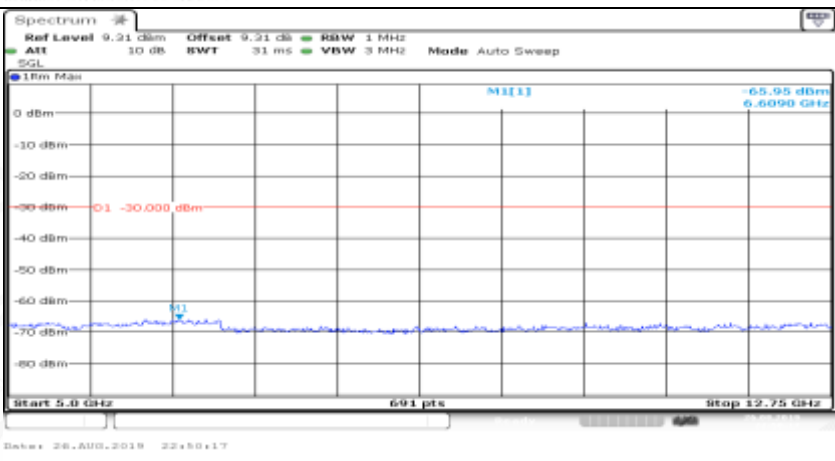
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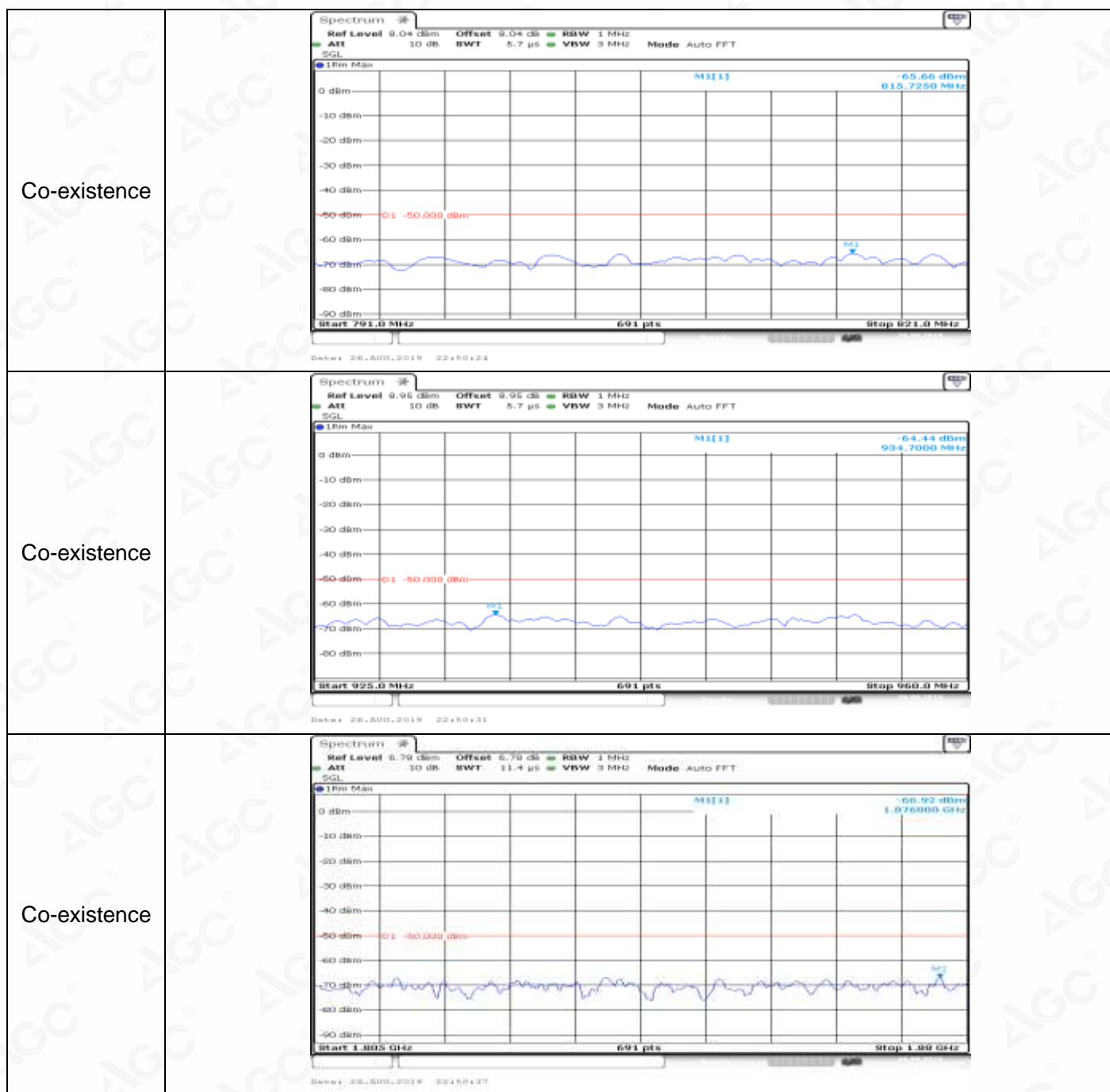
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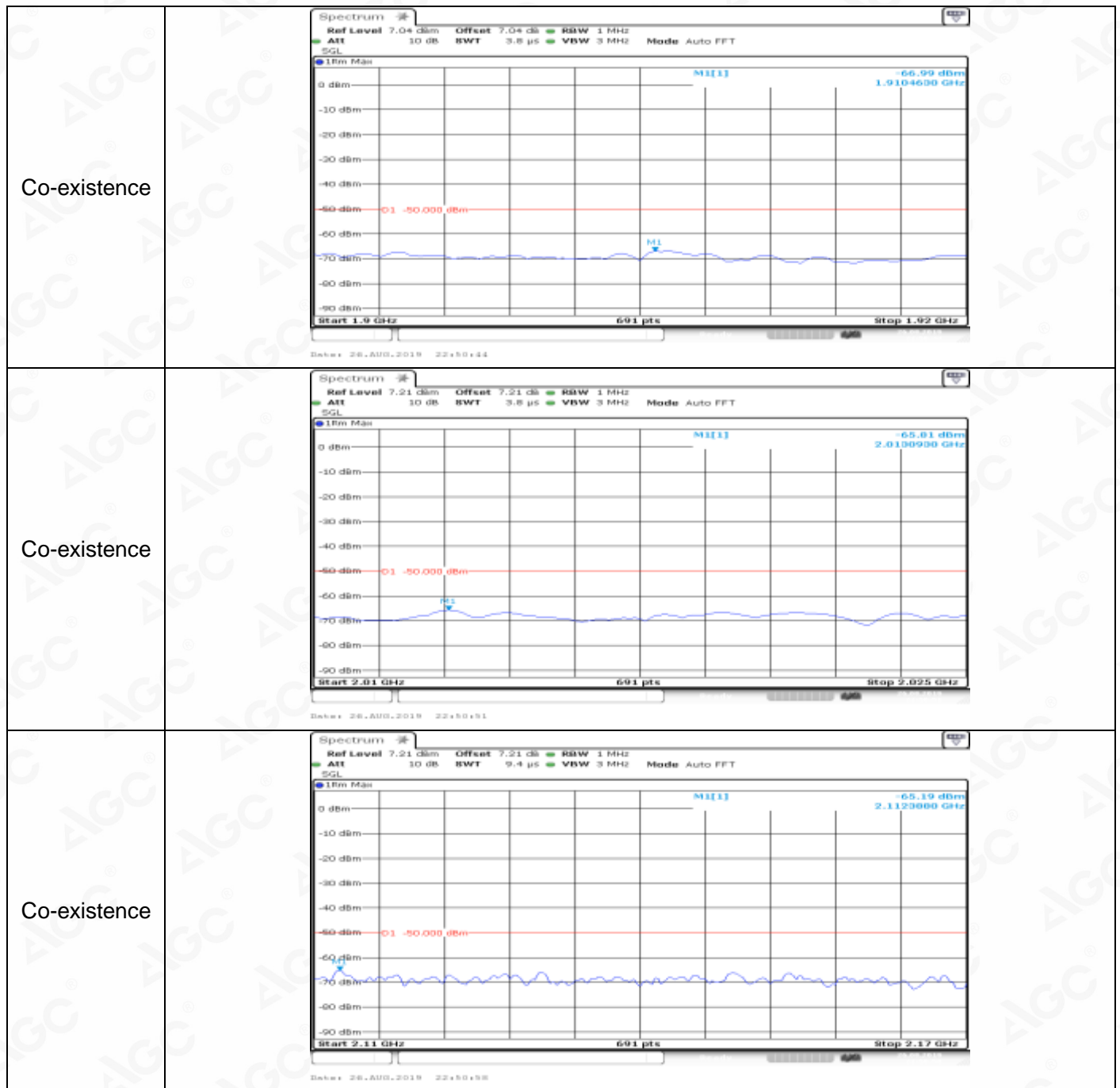



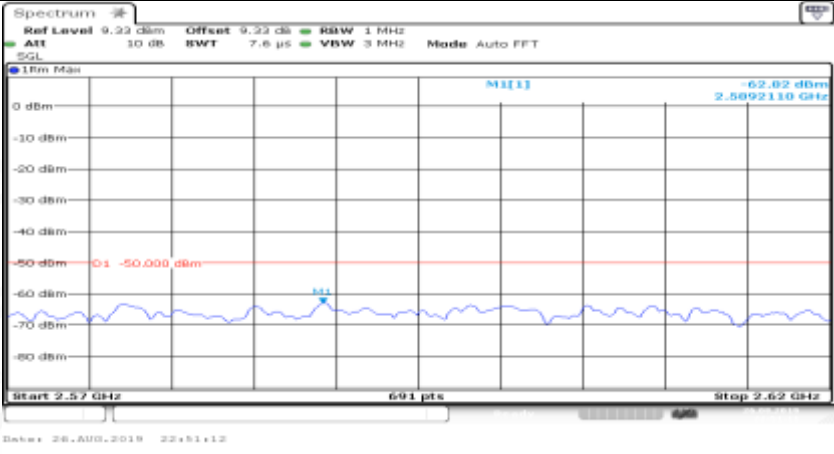
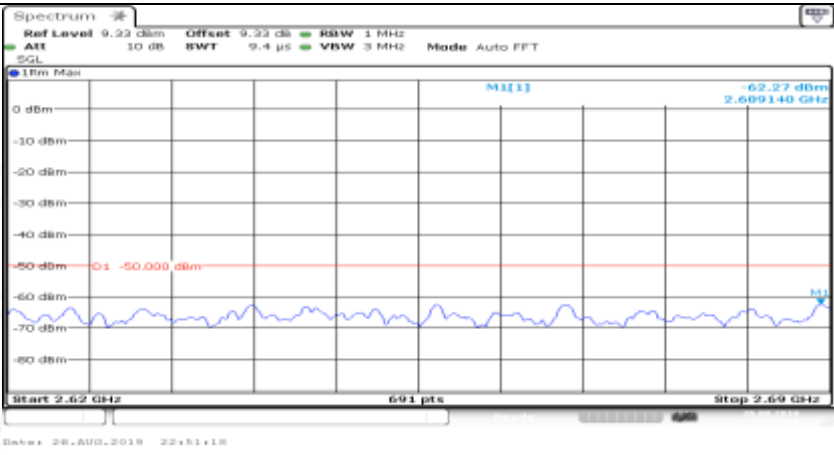
Co-existence	
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Additional	NA


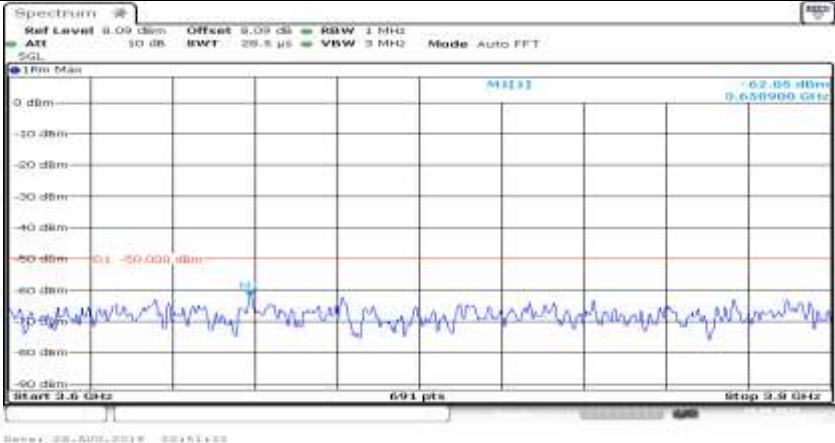


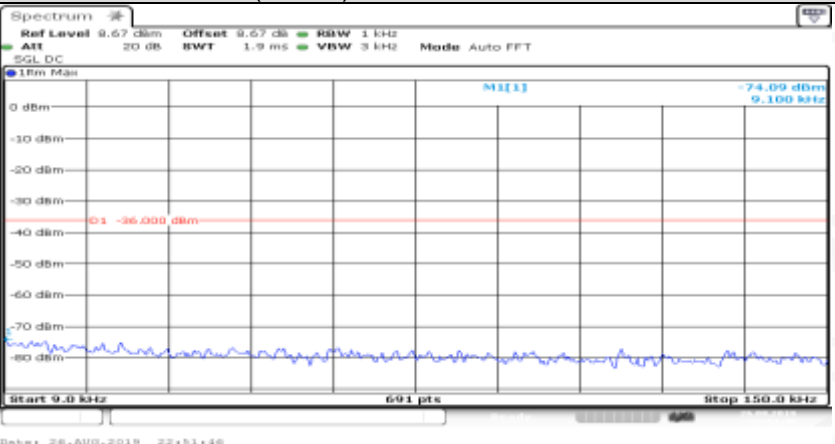
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General	

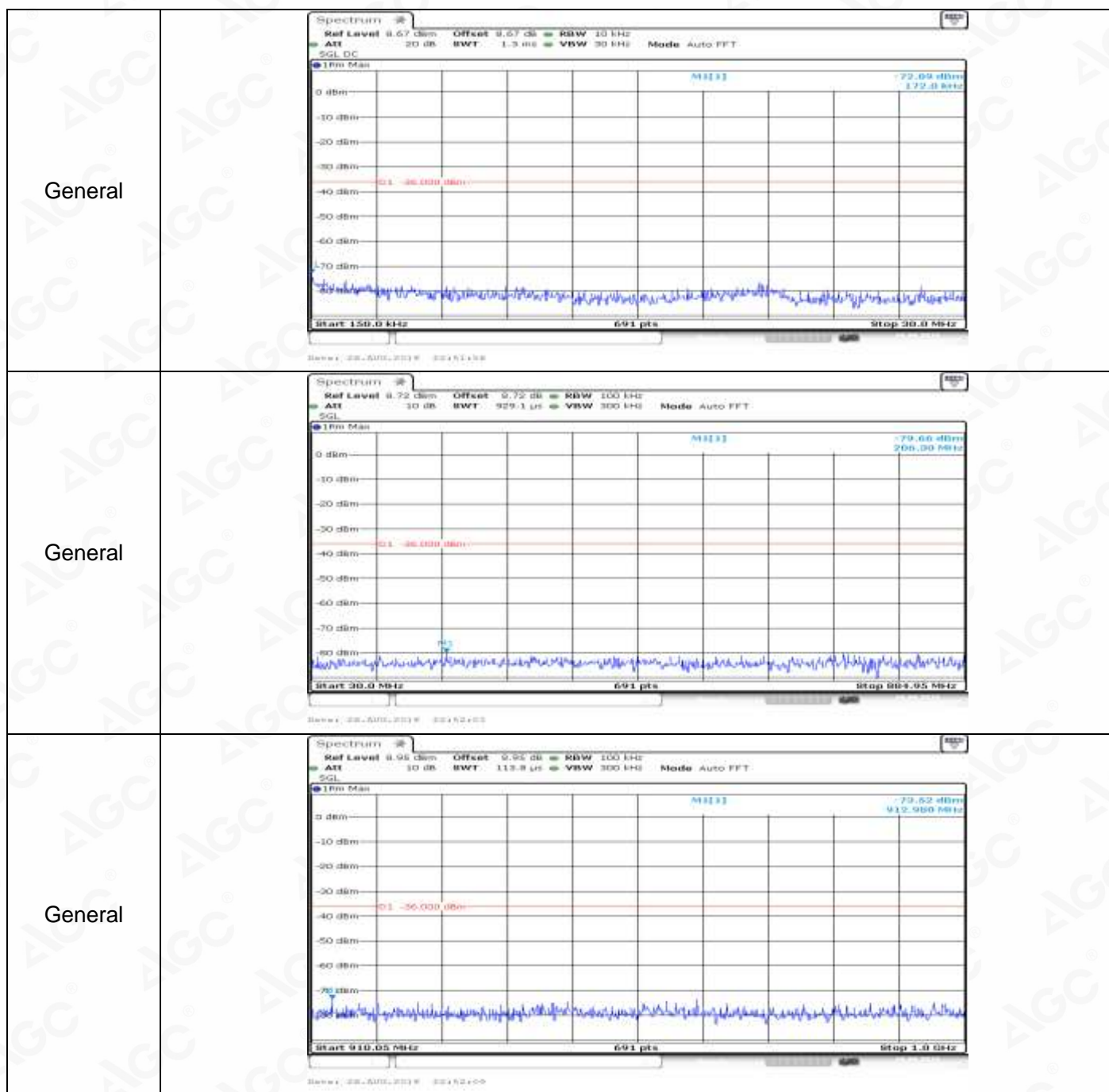


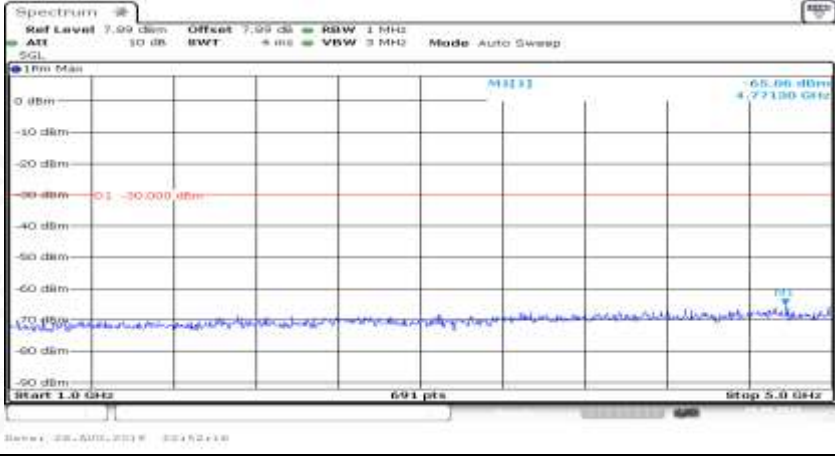
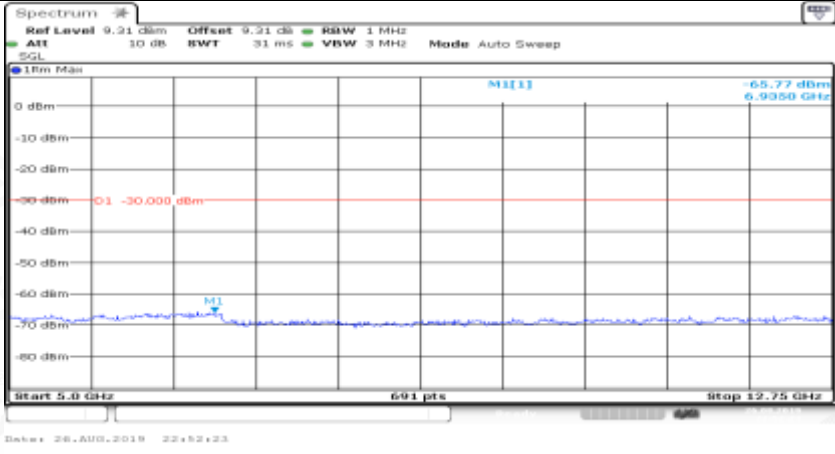
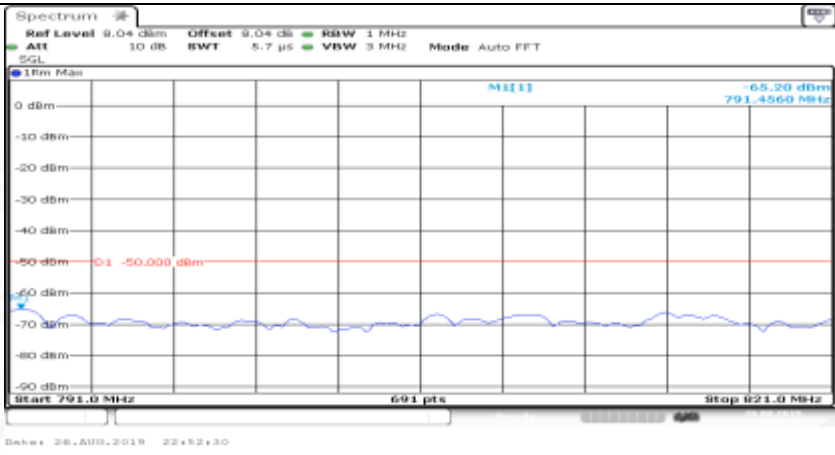


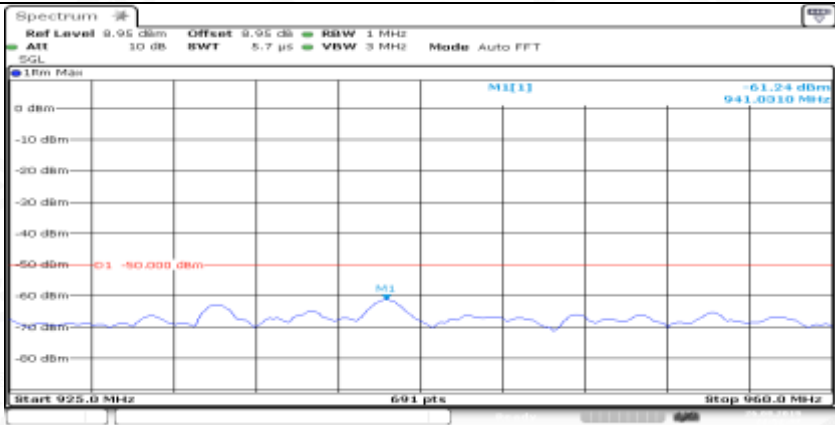
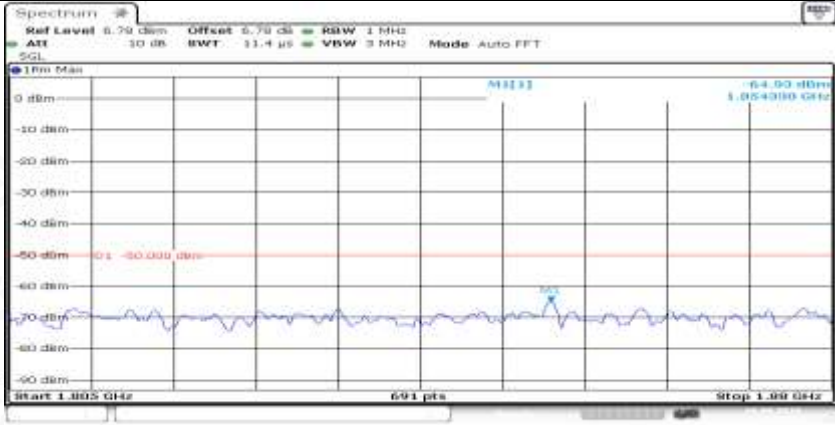
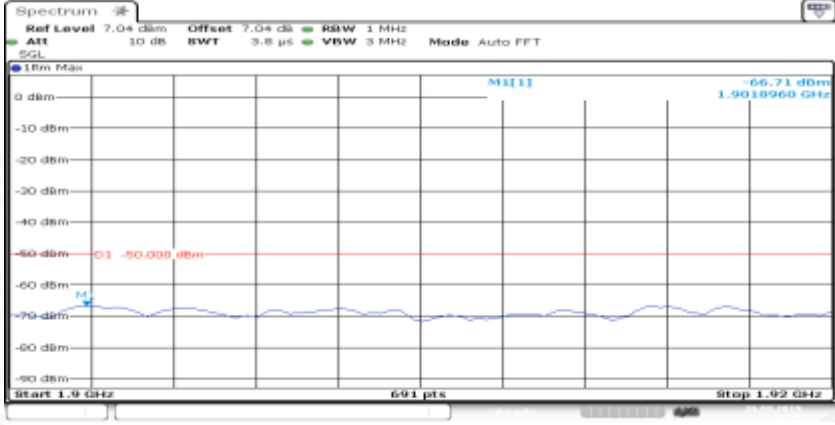
Co-existence	
Co-existence	
Co-existence	

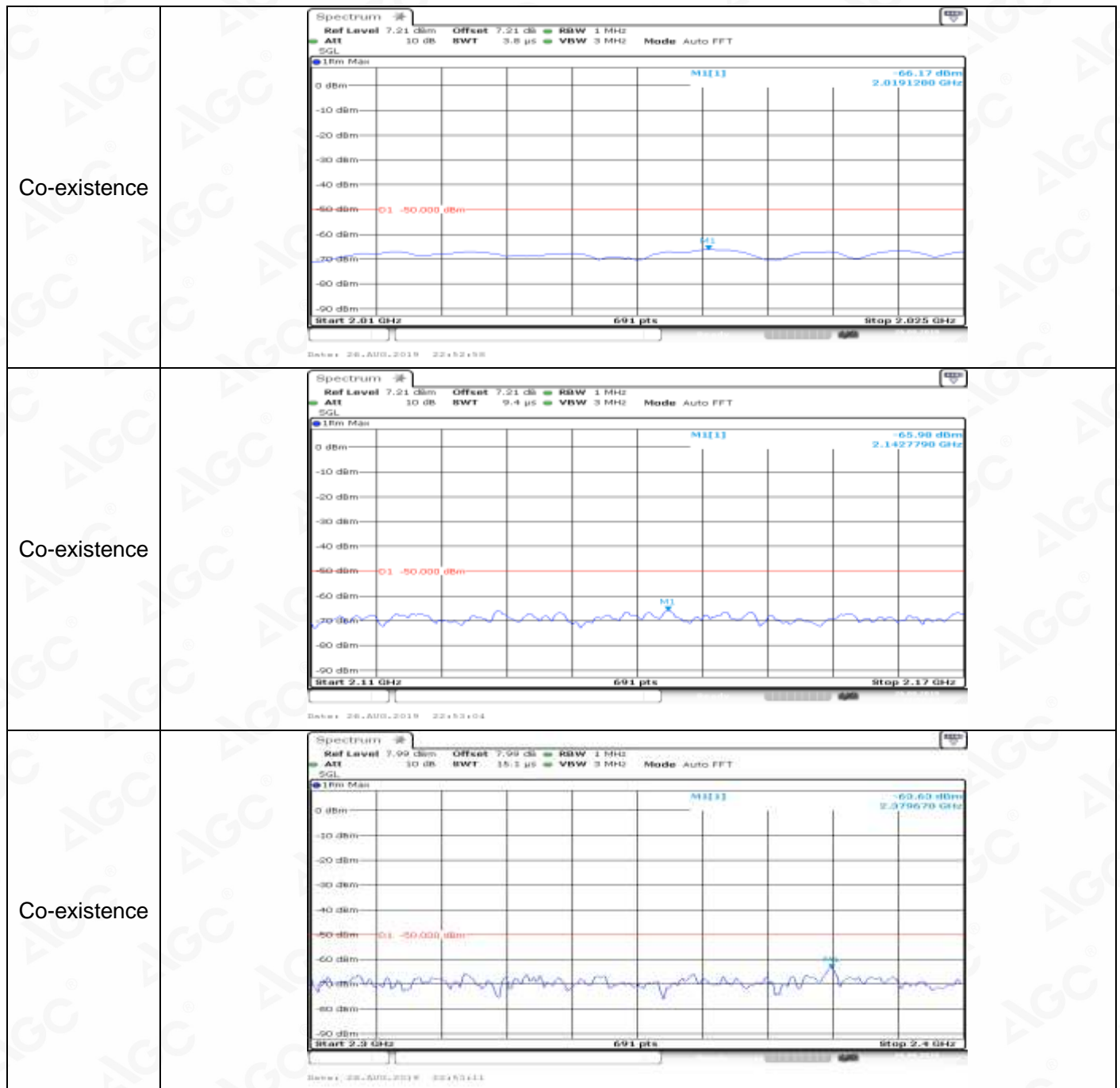
Co-existence	
Co-existence	
Additional	NA

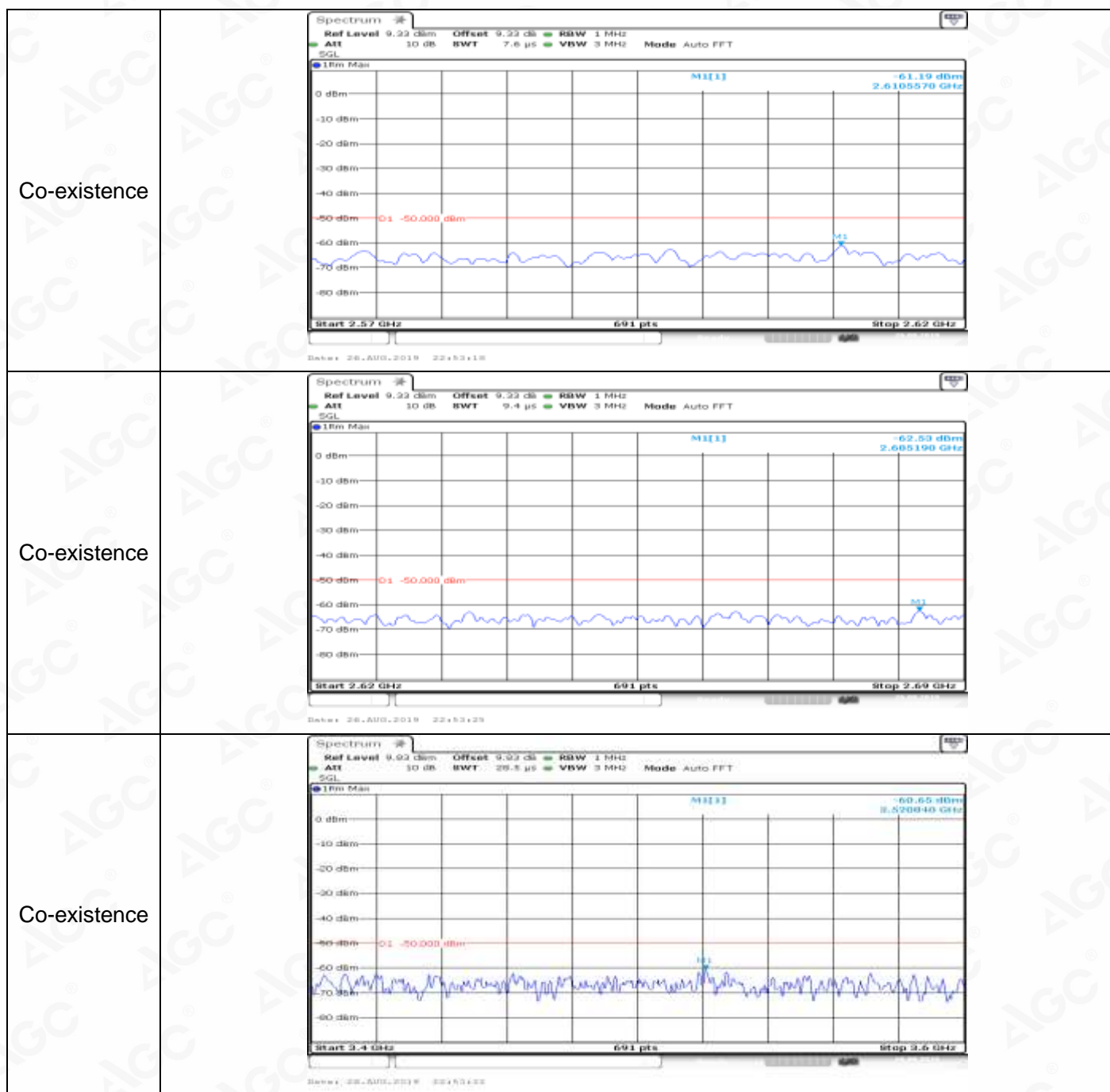
Channel Bandwidth= (5 MHz)_QPSK_MCH_FullIRB#0	
General	

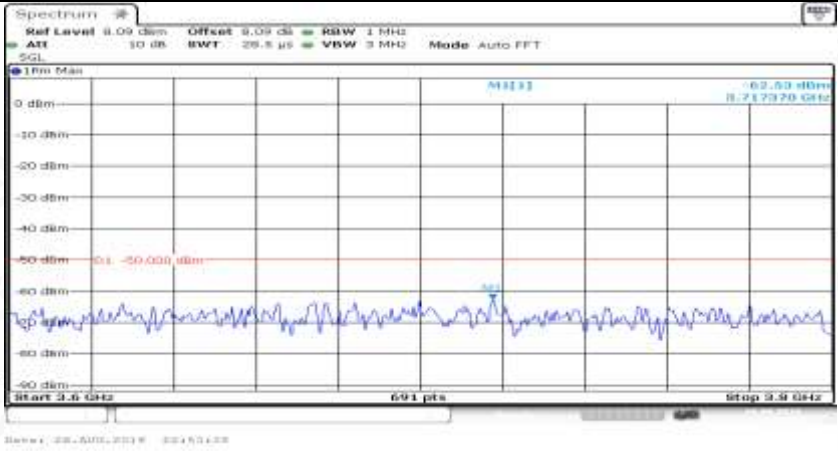


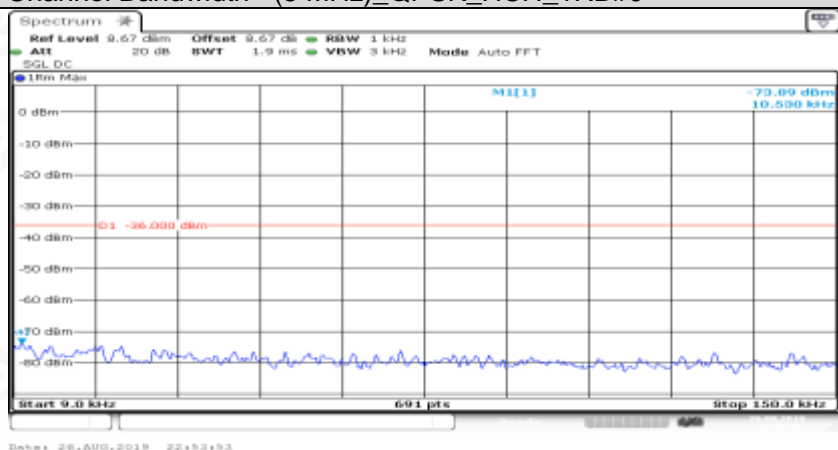
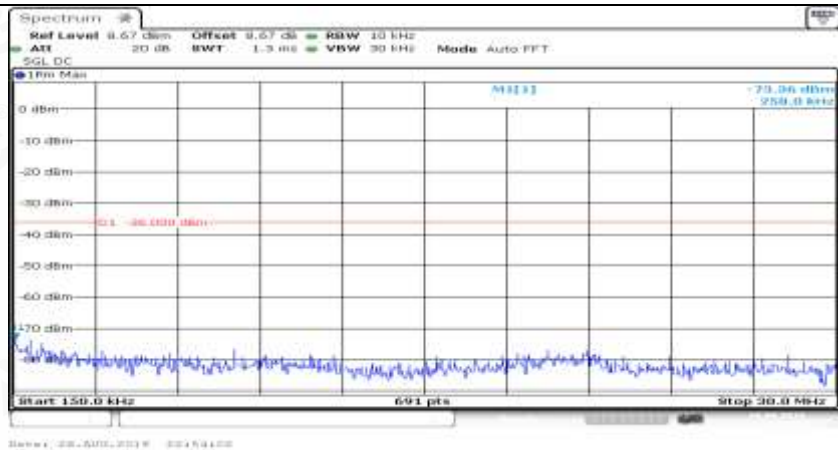
General	
General	
Co-existence	

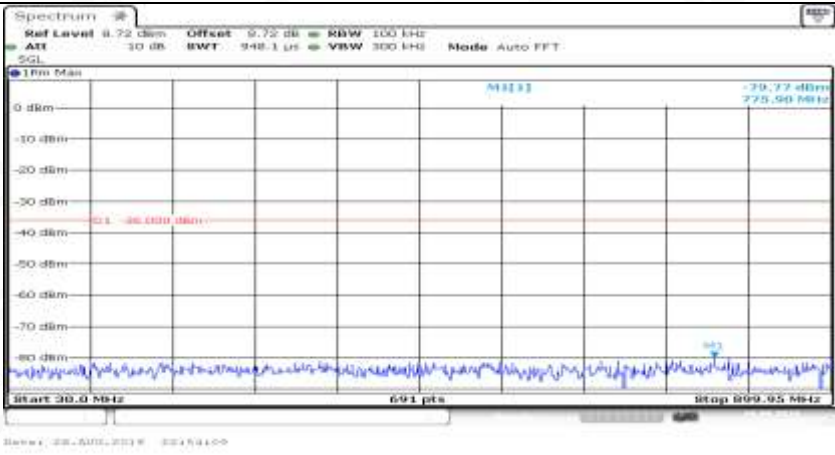
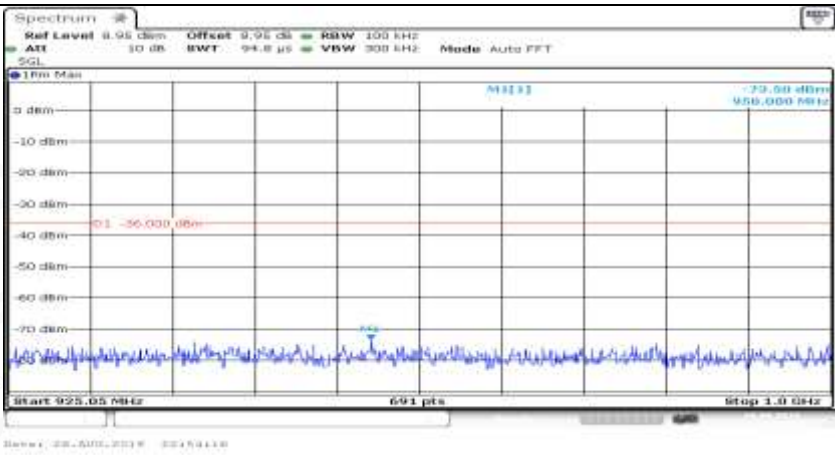
Co-existence	 <p>Spectrum Ref Level 9.95 dBm Offset 9.95 dB BW 1 MHz Att 10 dB BW 5.7 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max M1[1] -61.24 dBm 941.0310 MHz Start 925.0 MHz 691 pts Stop 960.0 MHz Date: 28.AUG.2019 22:52:37</p>
Co-existence	 <p>Spectrum Ref Level 6.79 dBm Offset 6.79 dB BW 1 MHz Att 10 dB BW 11.4 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max M1[1] -64.90 dBm 1.005000 GHz Start 1.005 GHz 691 pts Stop 1.01 GHz Date: 28.AUG.2019 22:52:38</p>
Co-existence	 <p>Spectrum Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz Att 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max M1[1] -66.71 dBm 1.9018960 GHz Start 1.9 GHz 691 pts Stop 1.92 GHz Date: 28.AUG.2019 22:52:51</p>

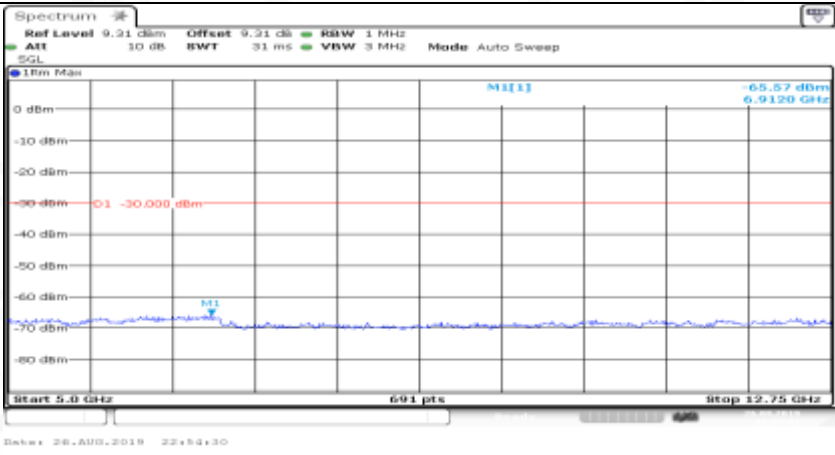
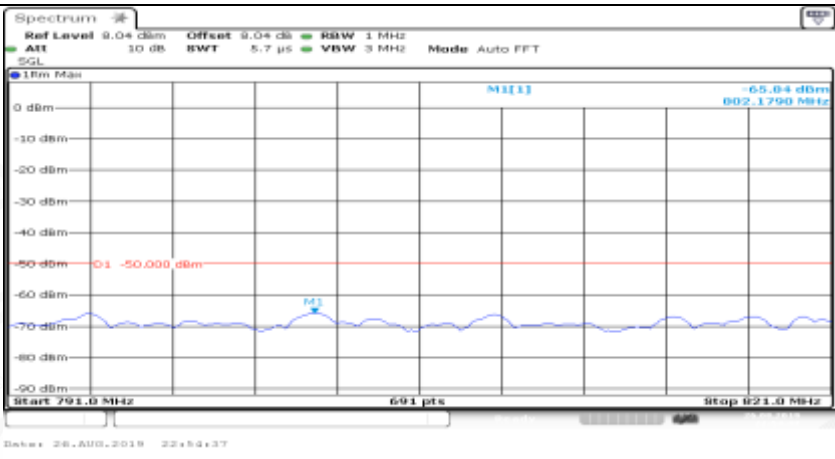
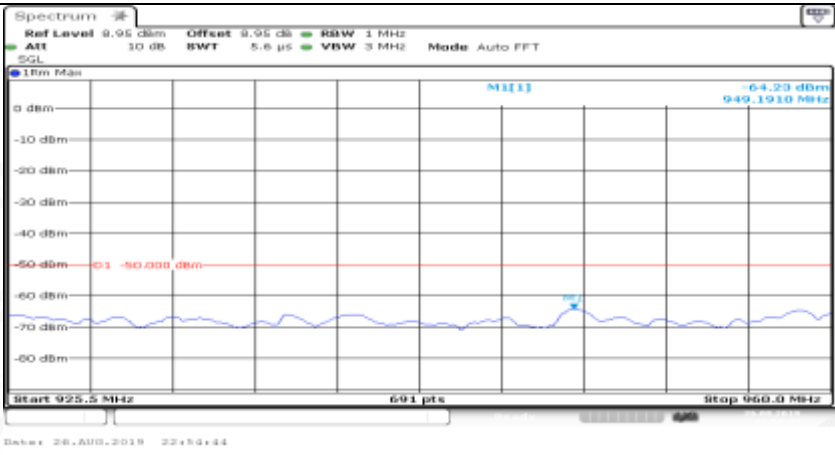


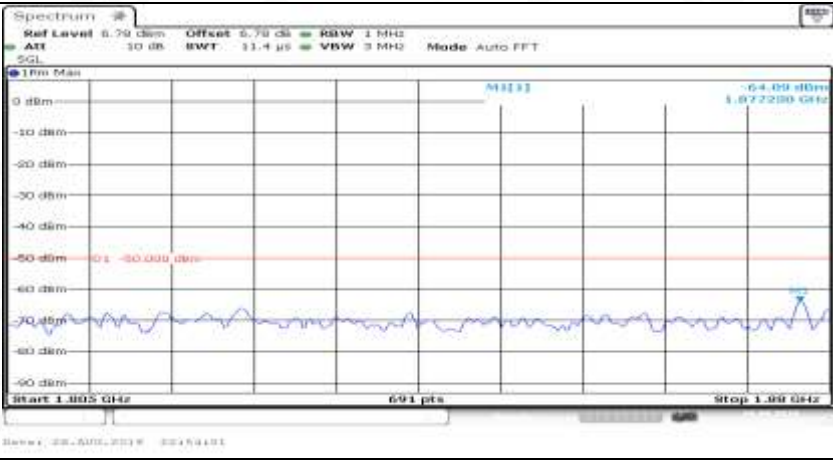
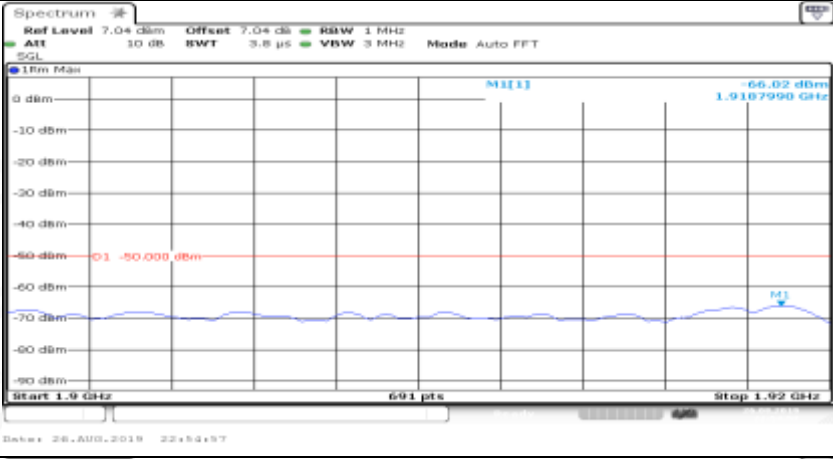
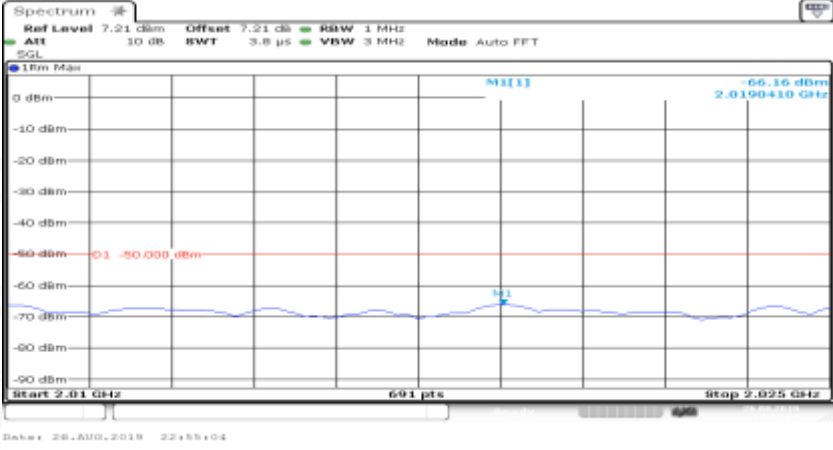


Co-existence	
Additional	NA

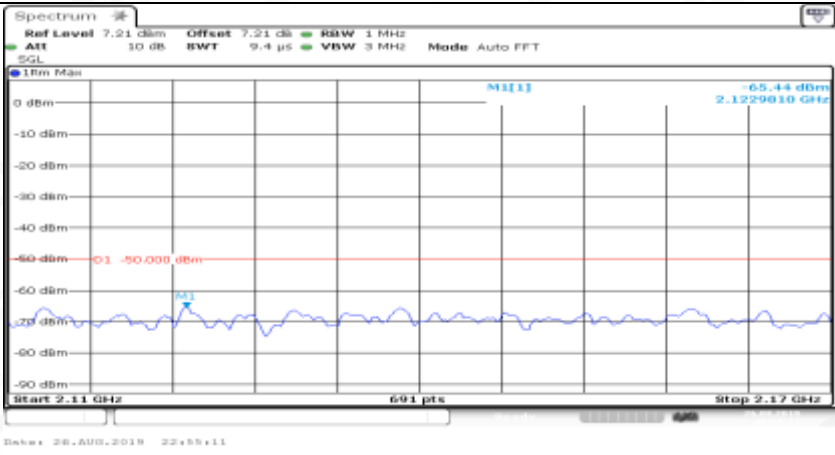

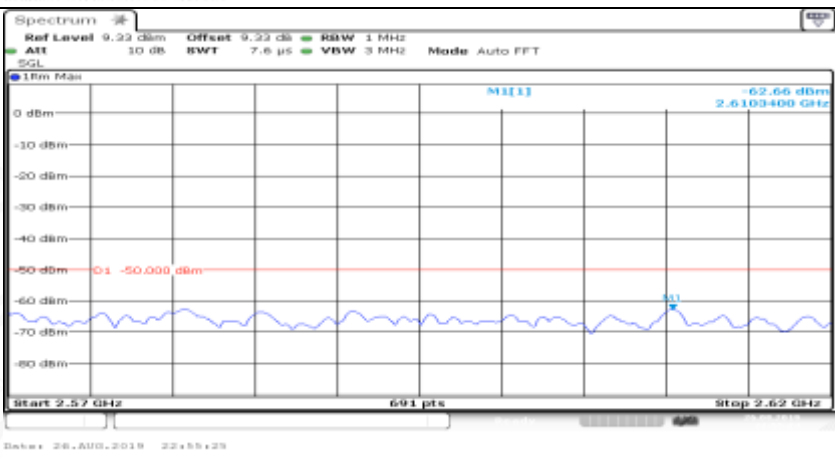
Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0	
General	
General	

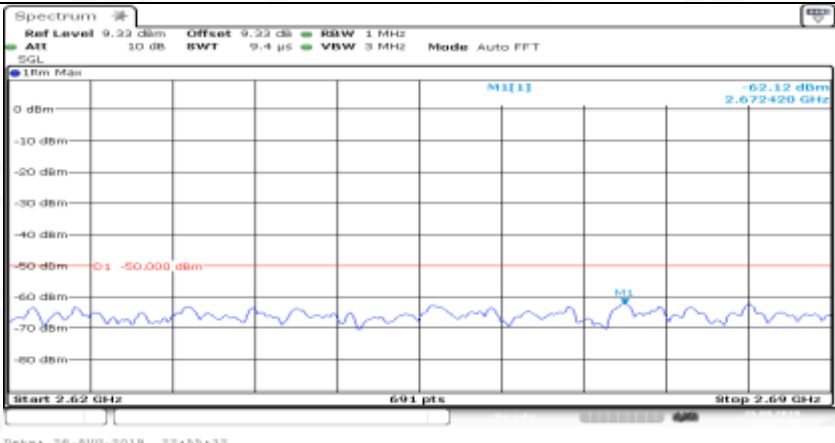
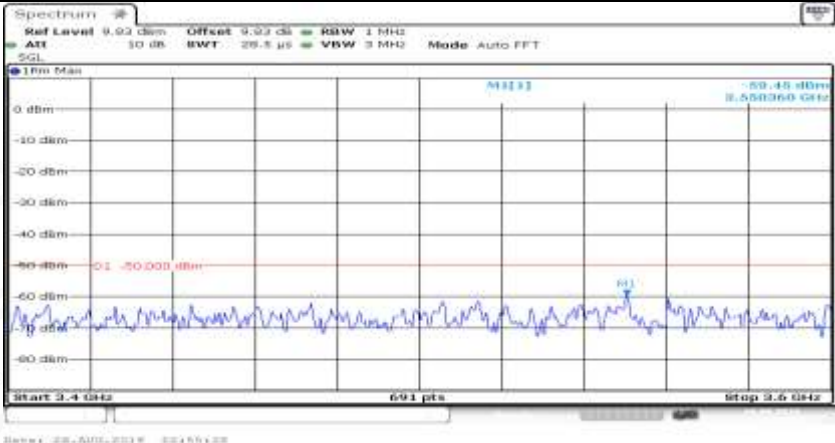
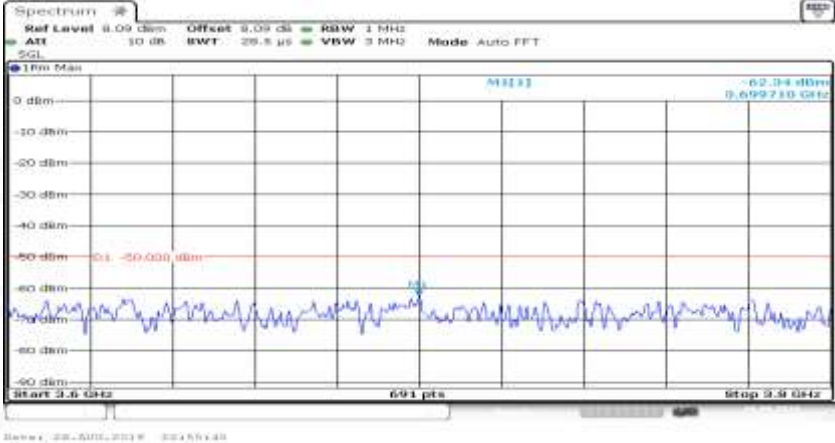
General	
General	
General	

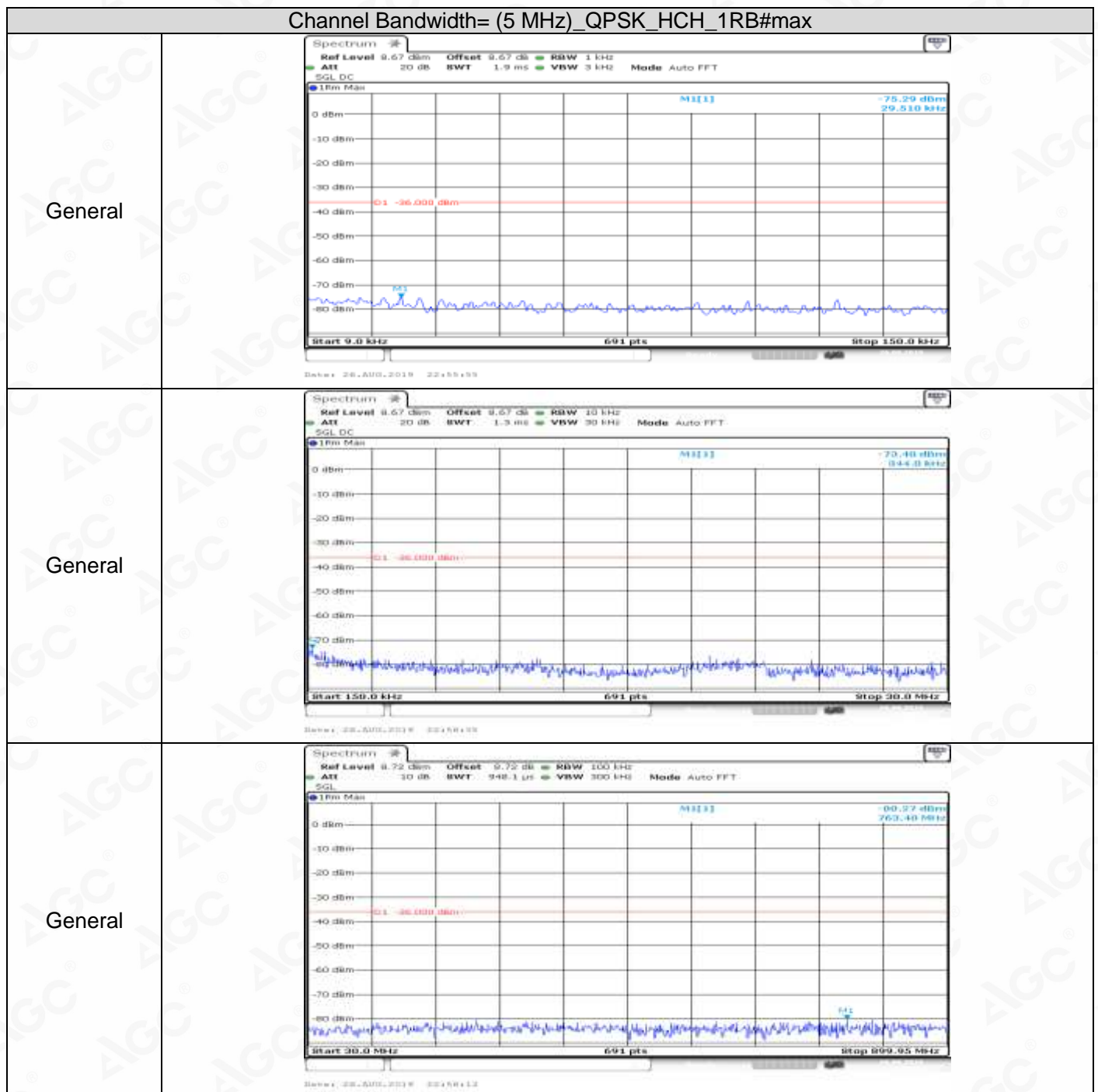
General	
Co-existence	
Co-existence	

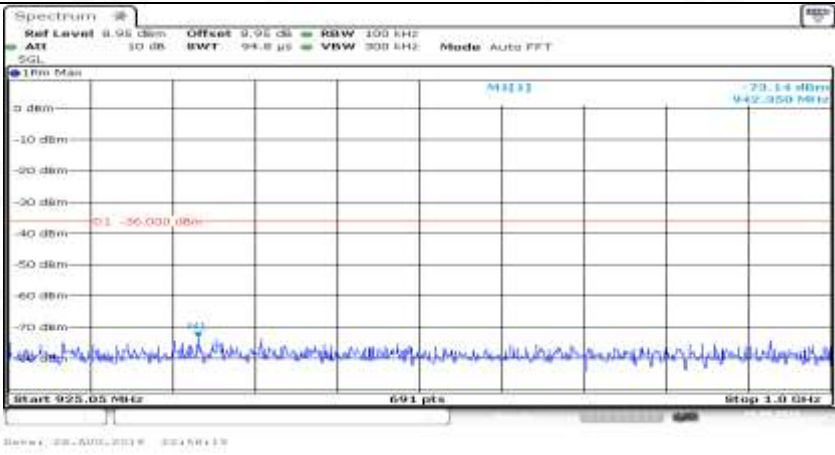
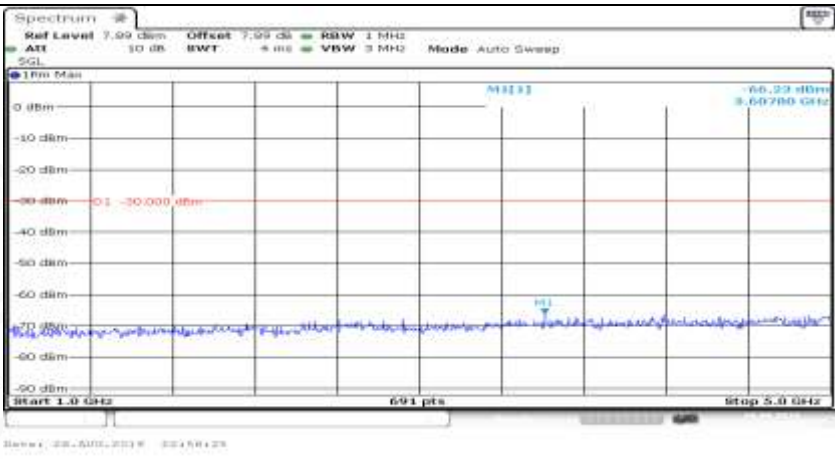
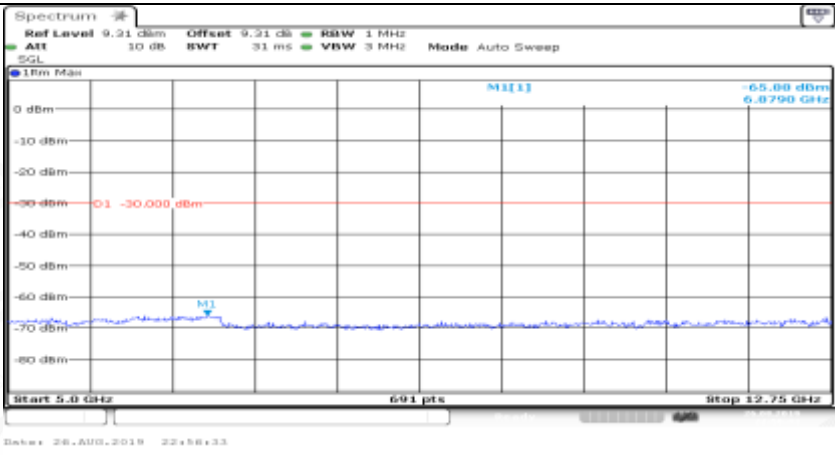
Co-existence	
Co-existence	
Co-existence	

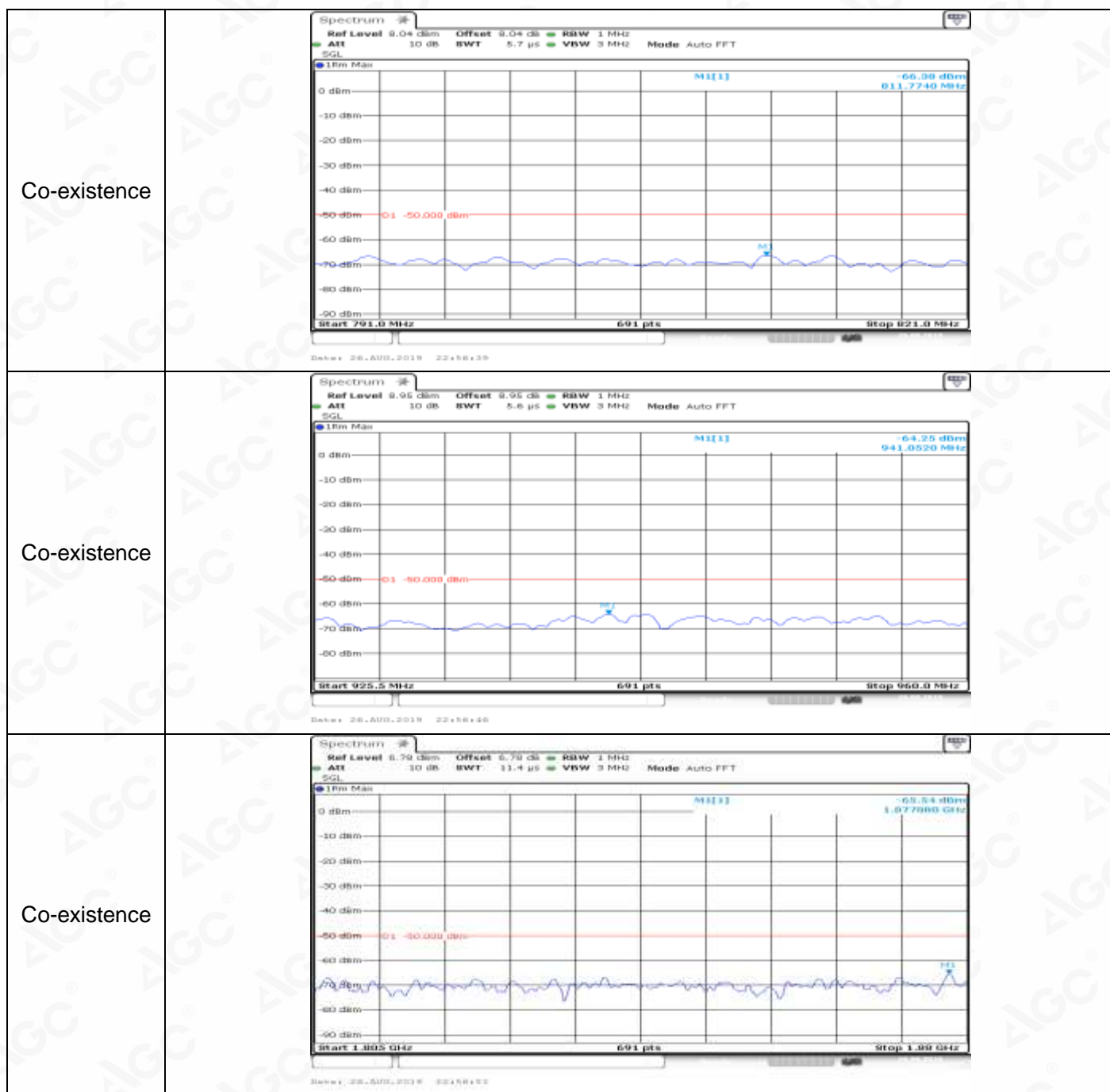


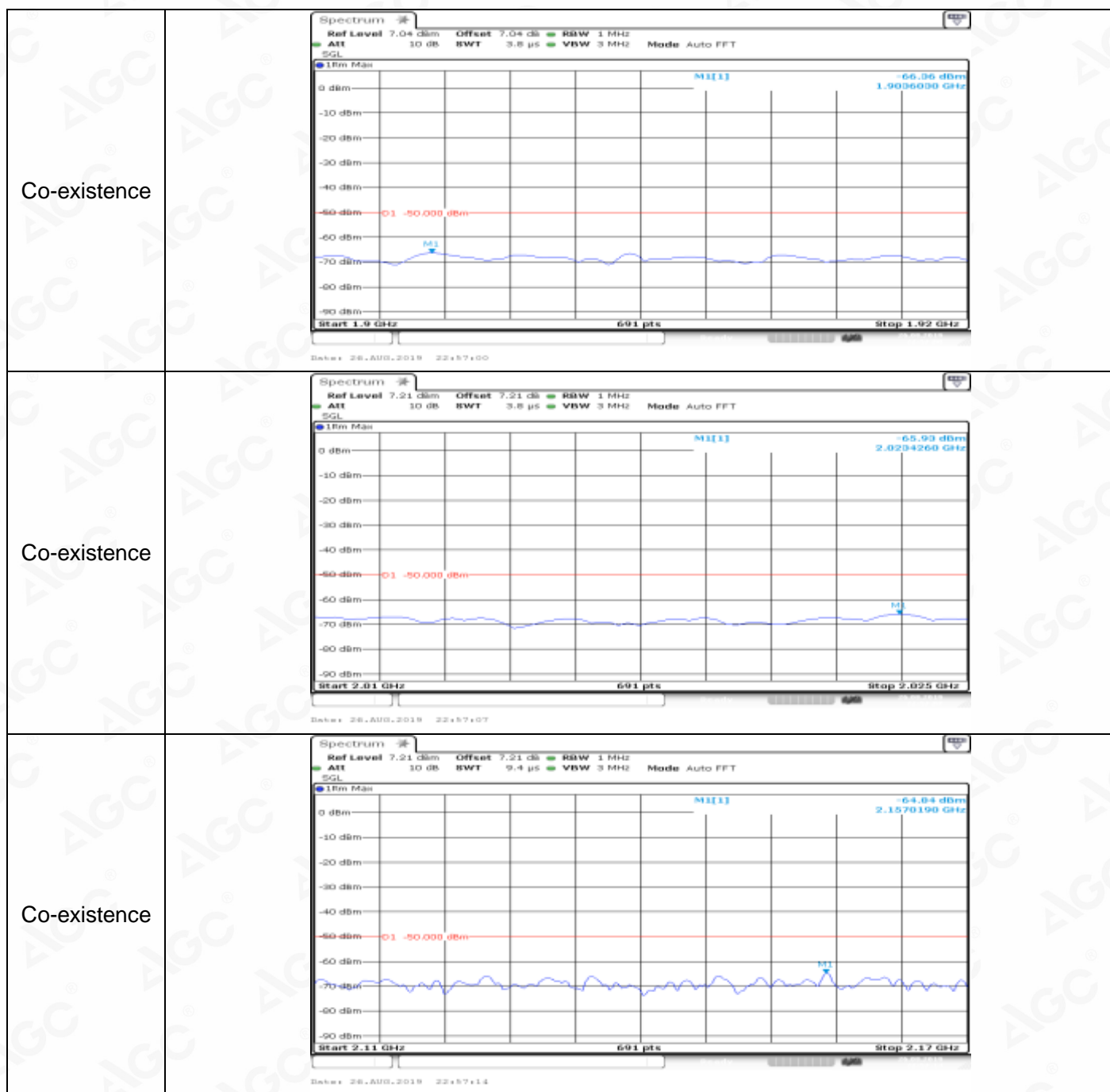
Co-existence	
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Co-existence	

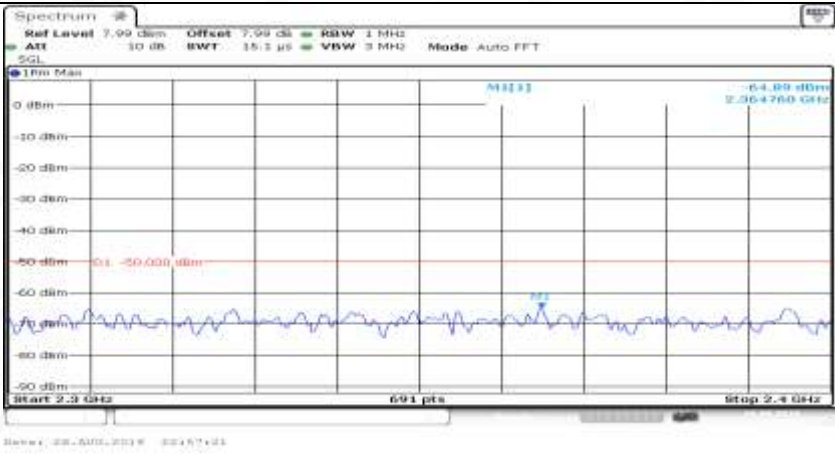
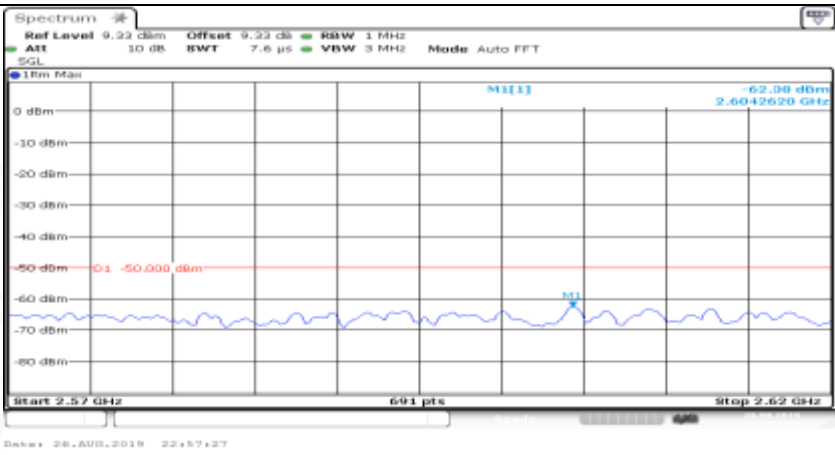
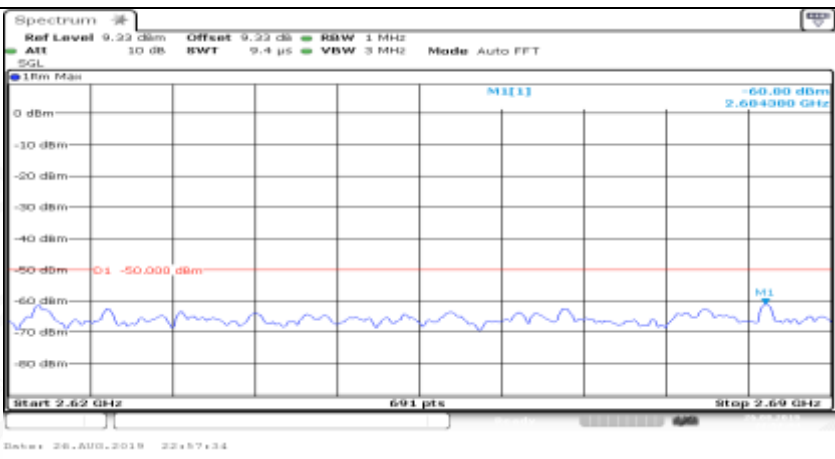
Co-existence	
Co-existence	
Co-existence	
Additional	NA

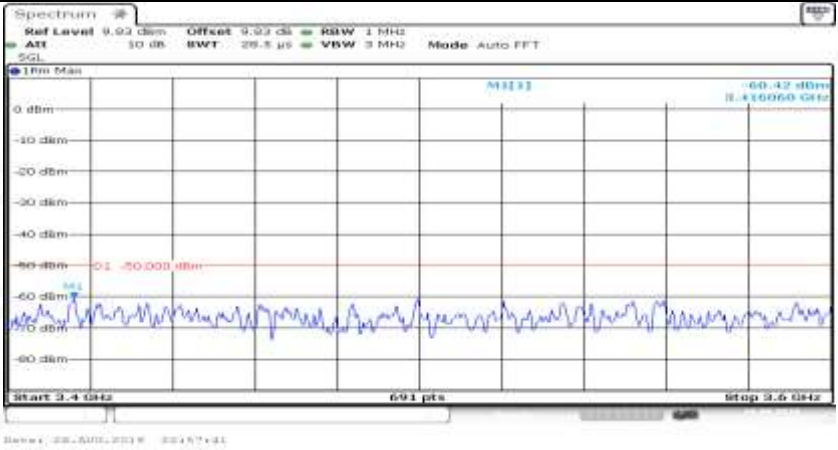
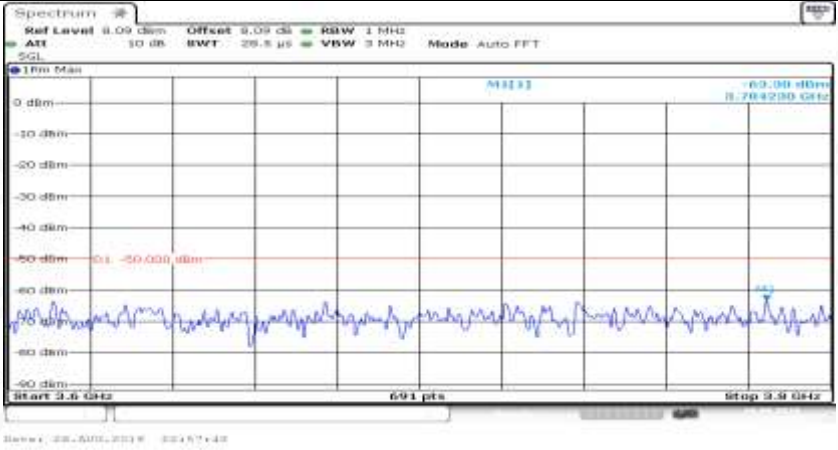


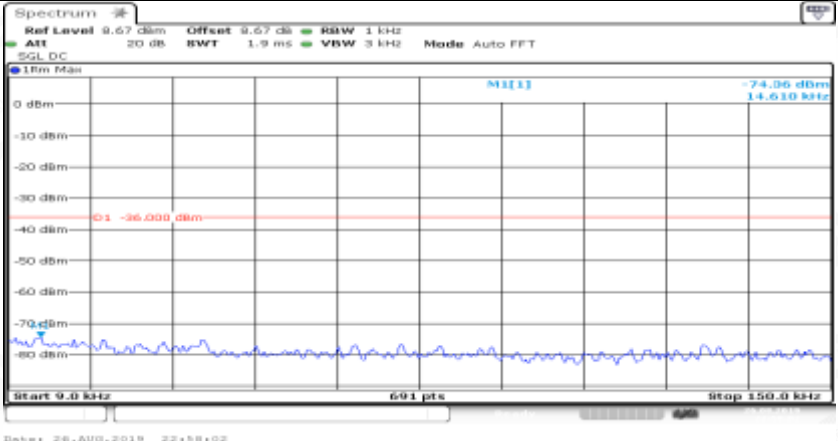
General	
General	
General	

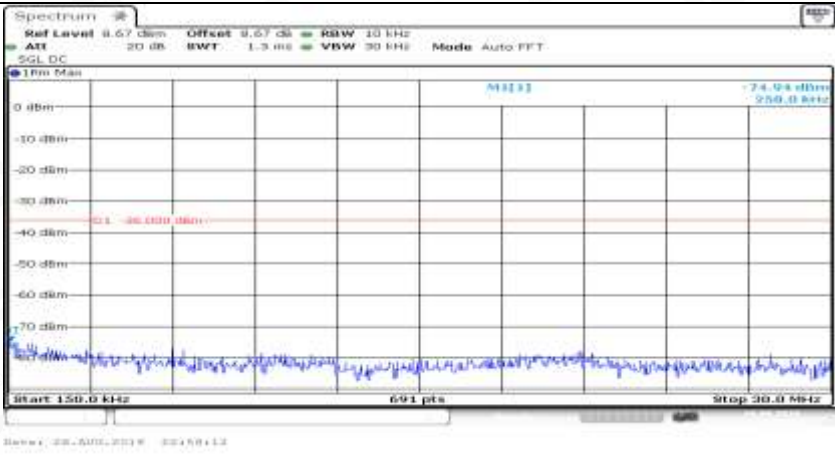
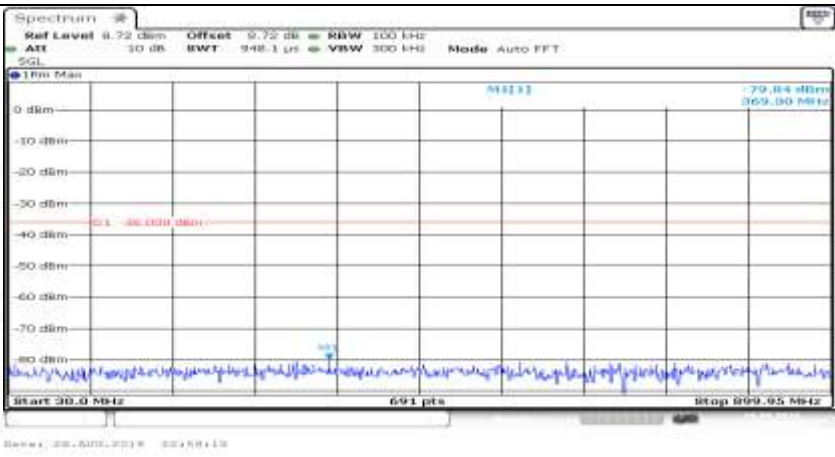
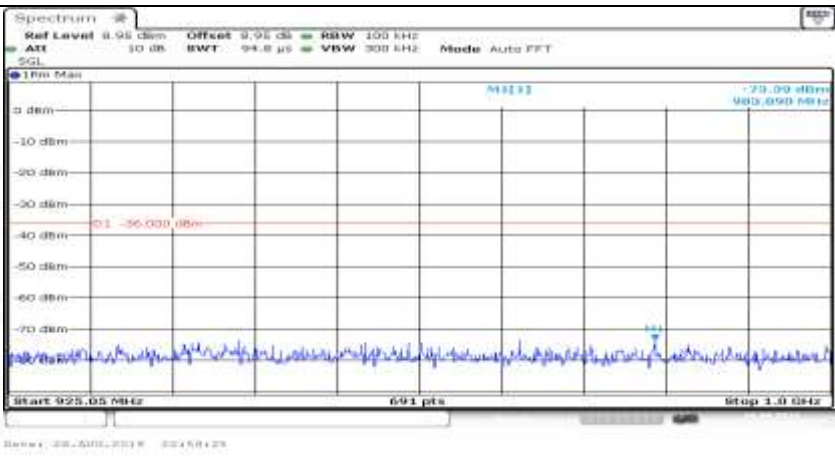


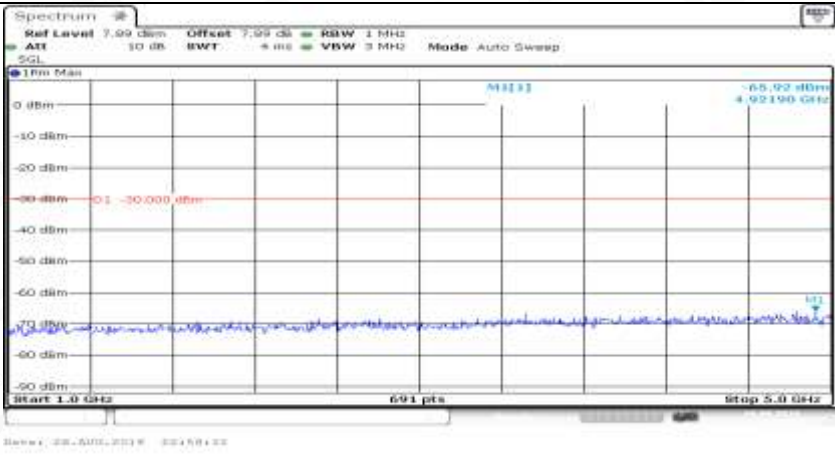
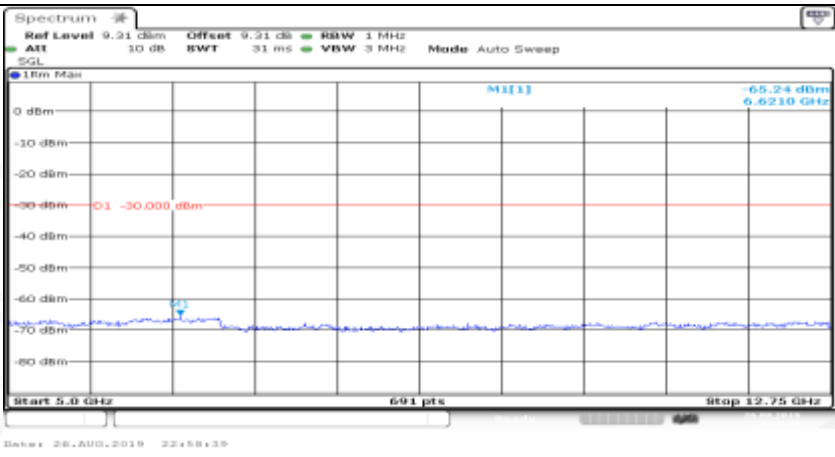
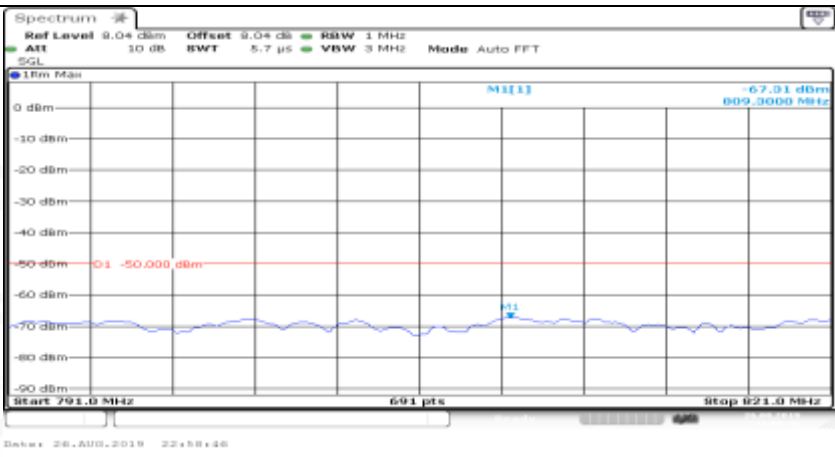


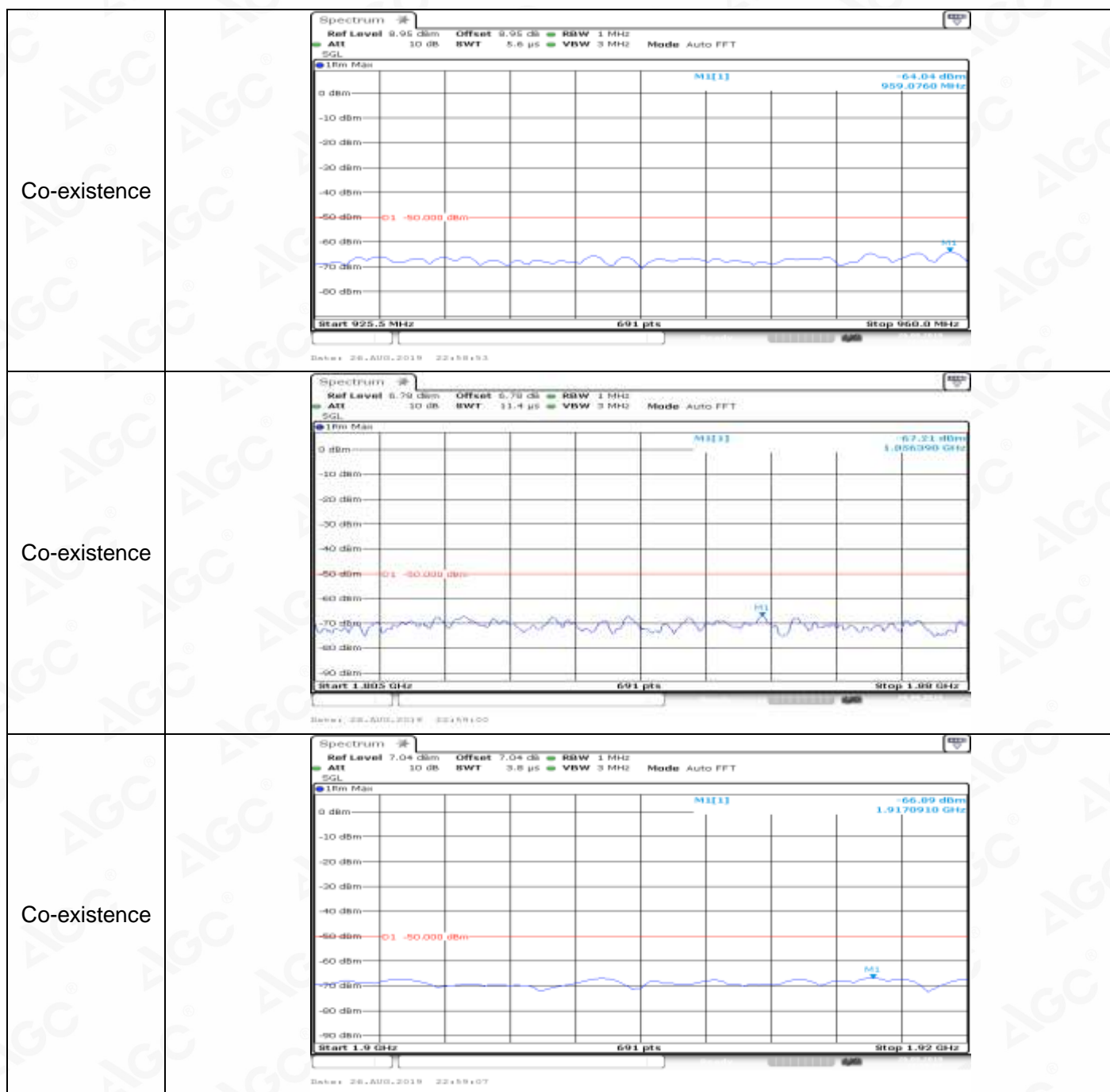
Co-existence	
Co-existence	
Co-existence	

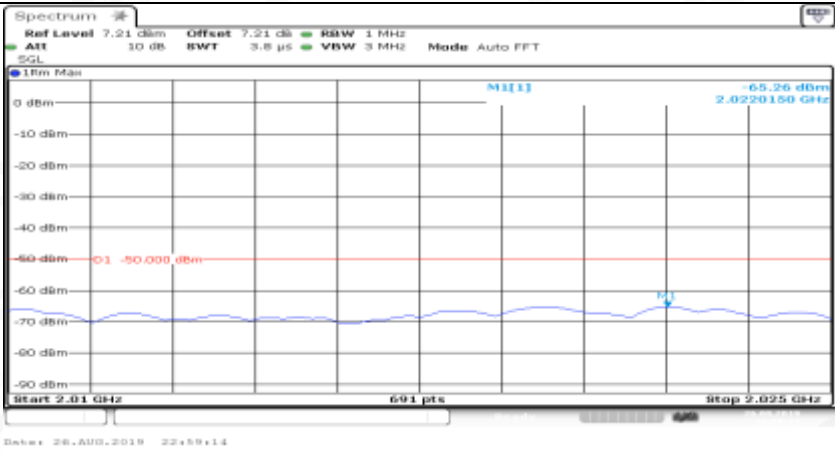
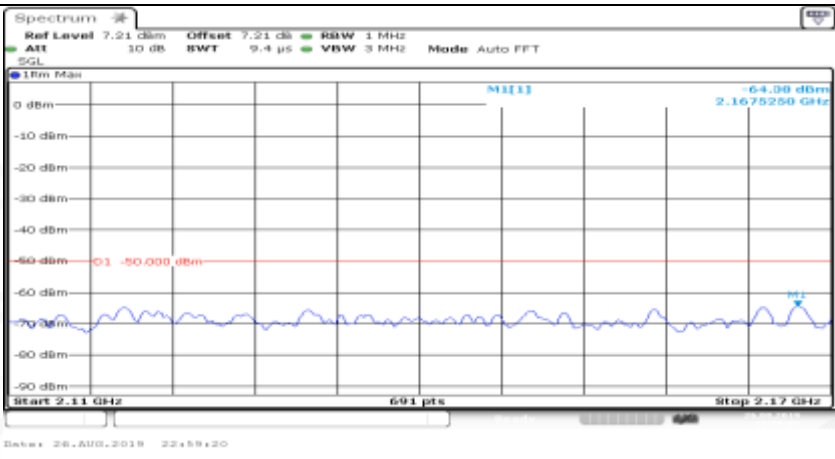
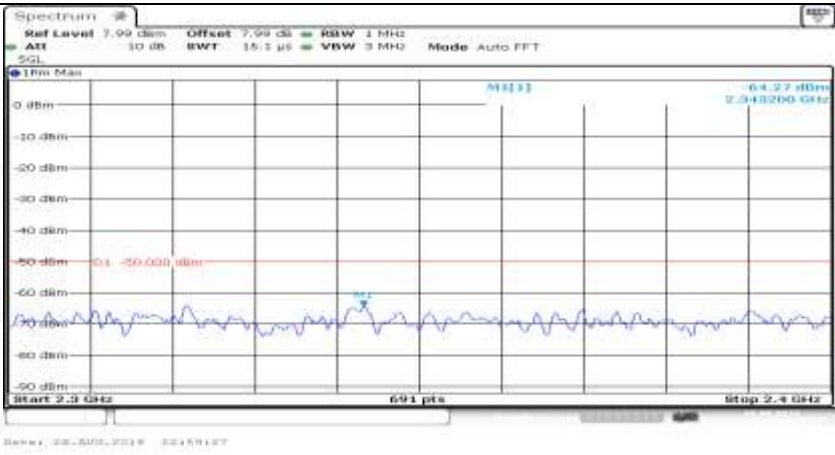
Co-existence	
Co-existence	
Additional	NA

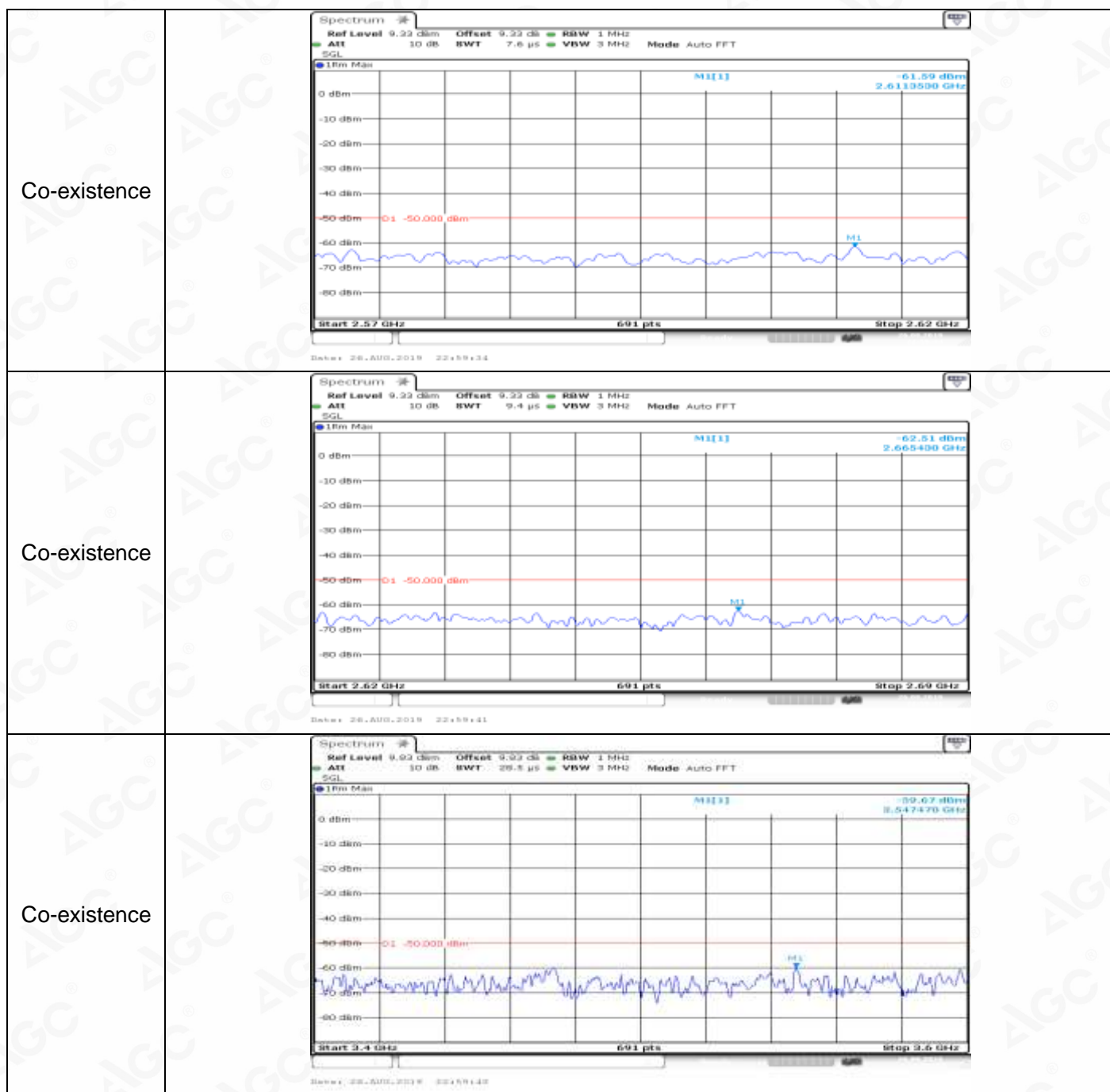
Channel Bandwidth= (5 MHz)_QPSK_HCH_FullIRB#0	
General	

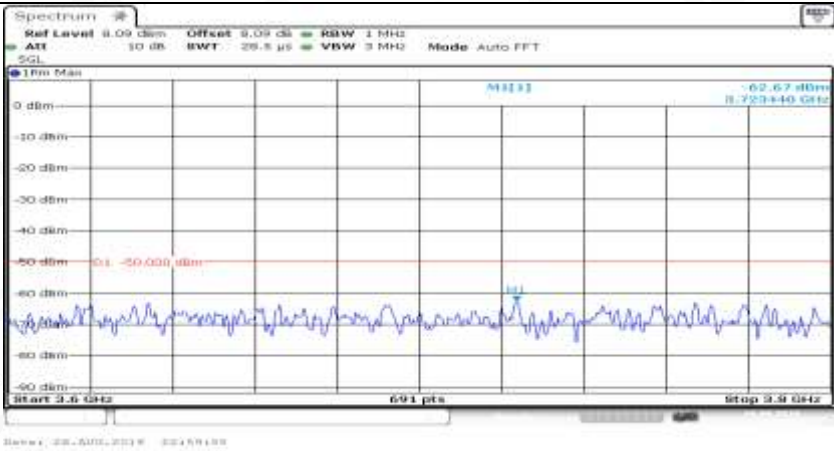
General	
General	
General	

General	
General	
Co-existence	



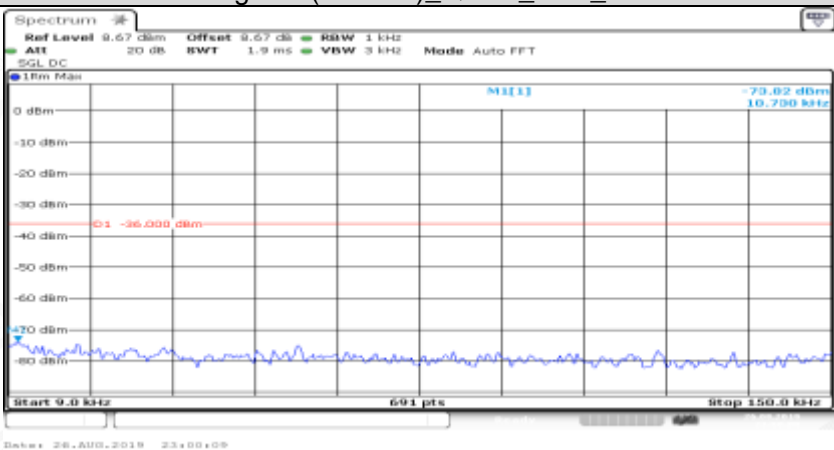
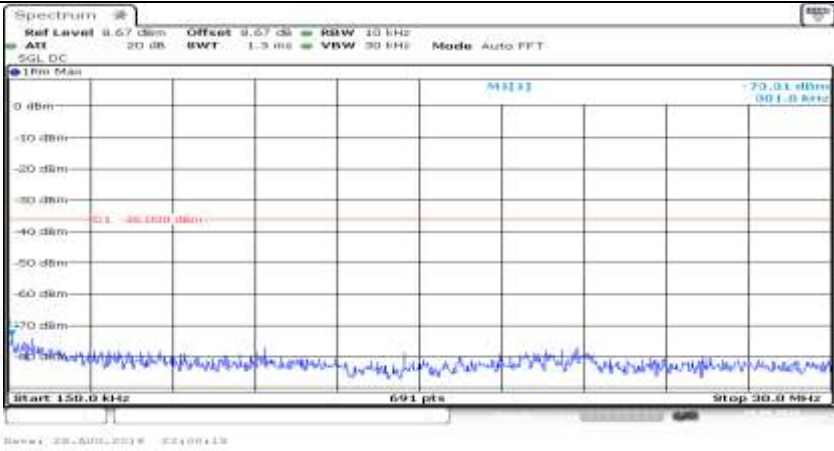
Co-existence	
Co-existence	
Co-existence	



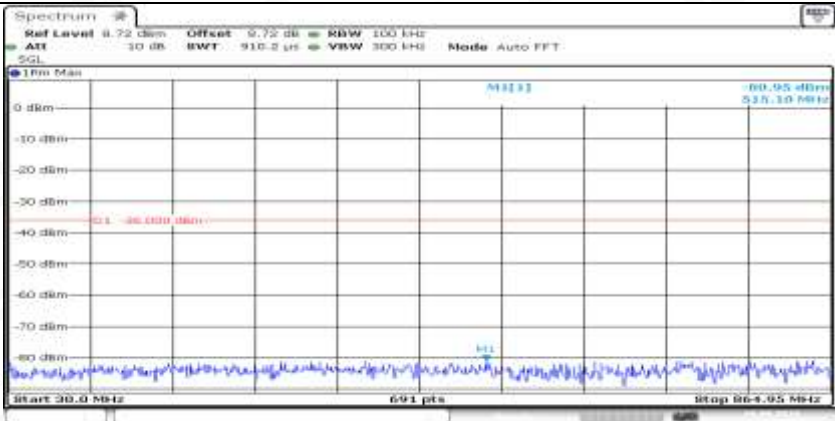
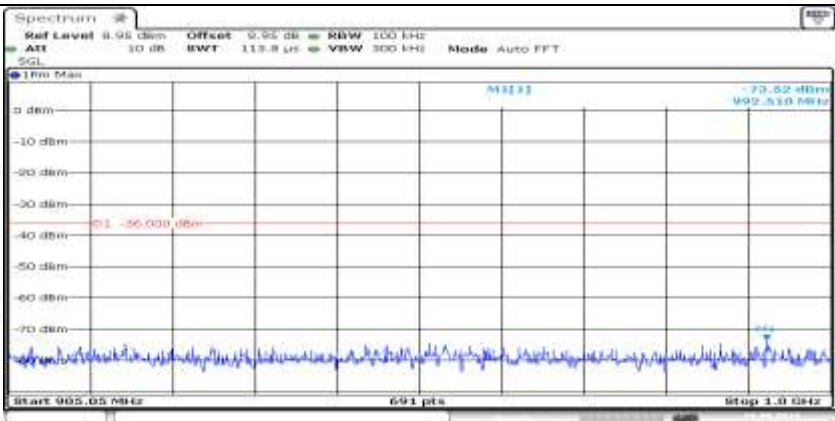
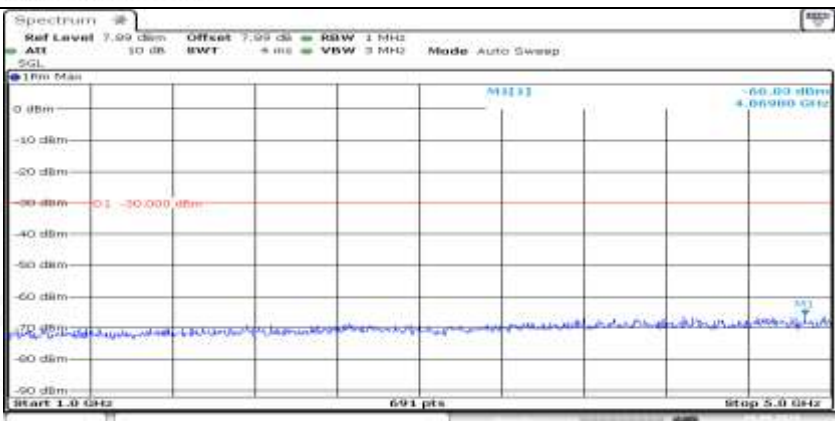
Co-existence	
Additional	NA

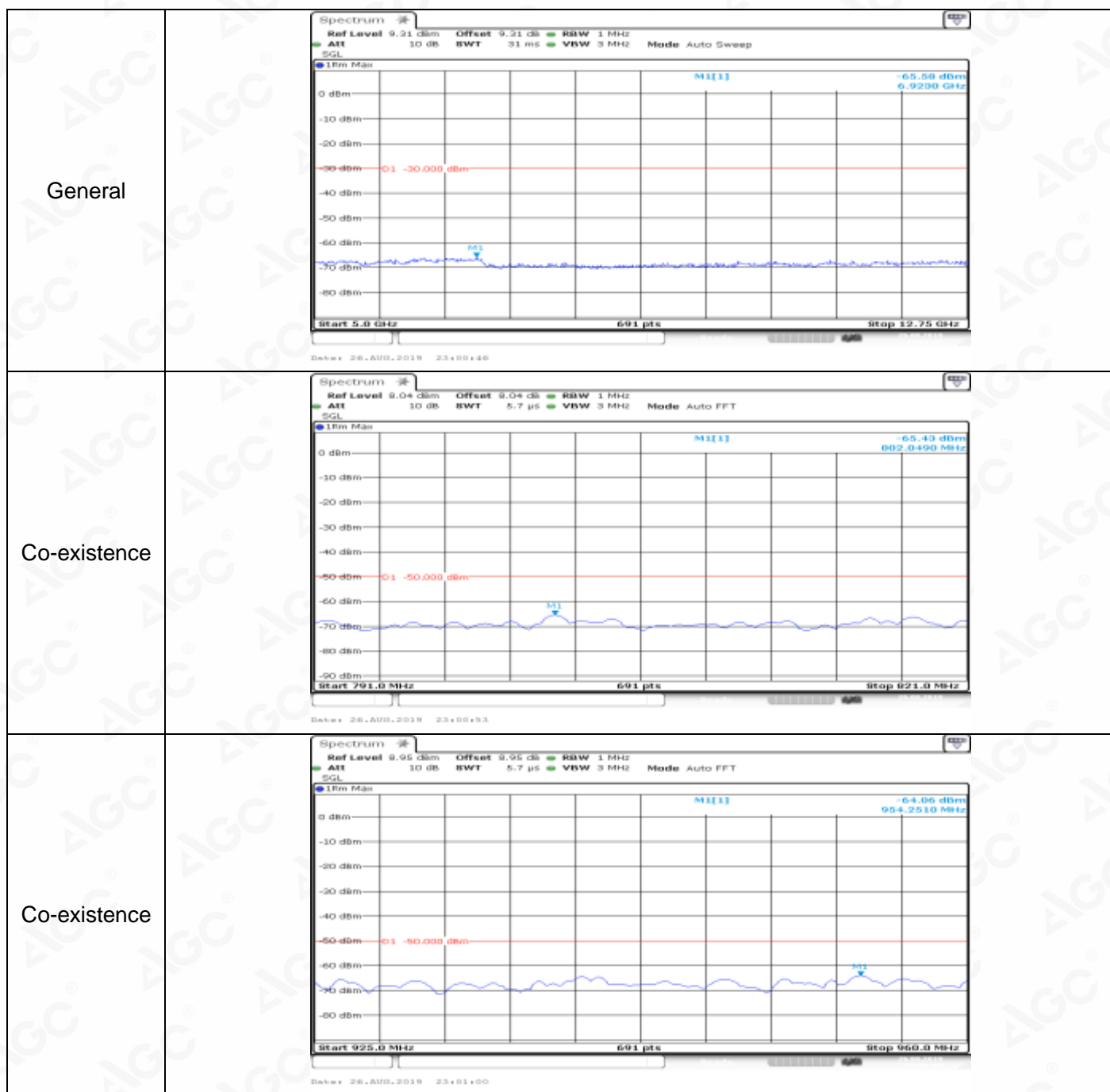
Channel Bandwidth= (10 MHz)


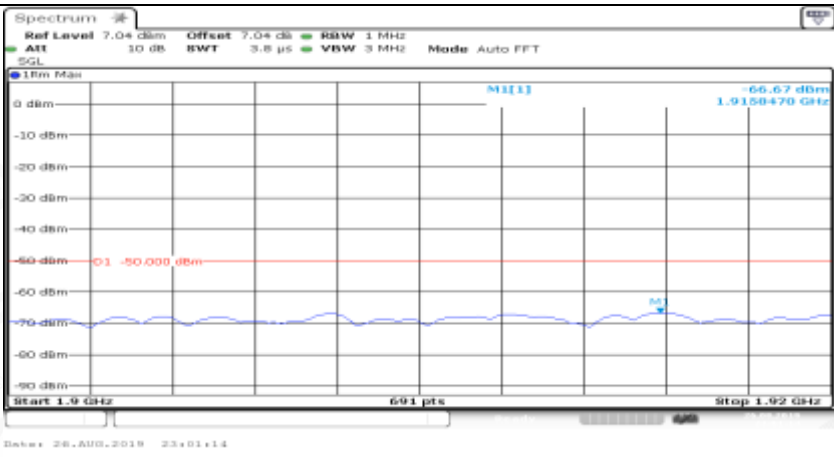
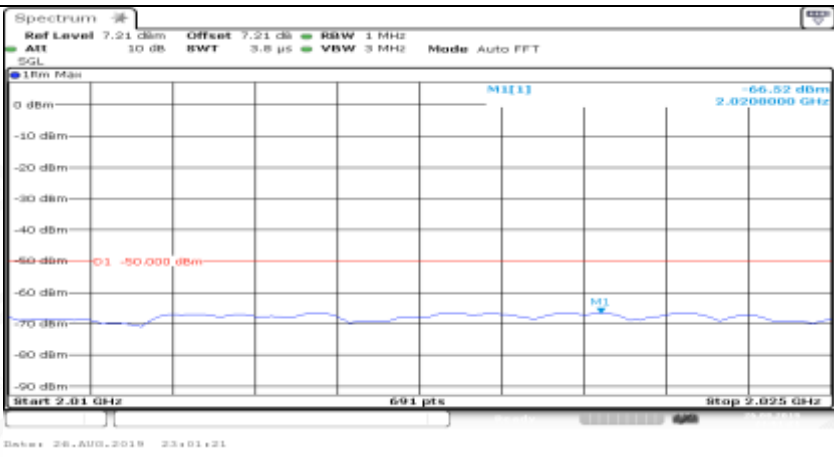
Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_1RB#0

General	
General	

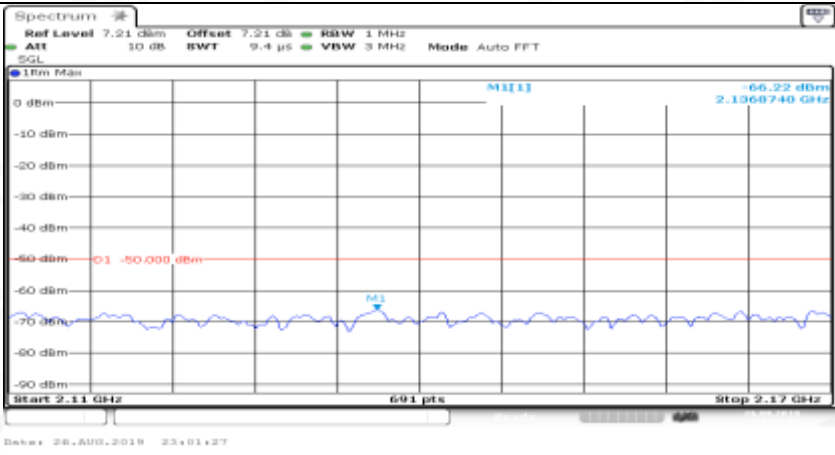

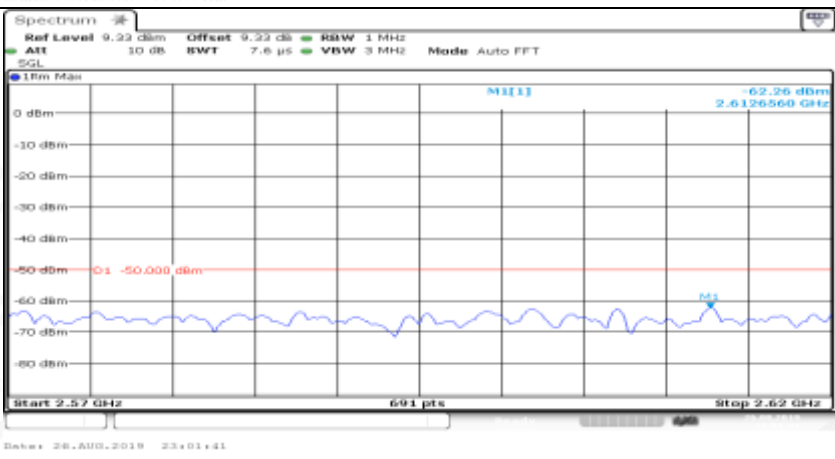


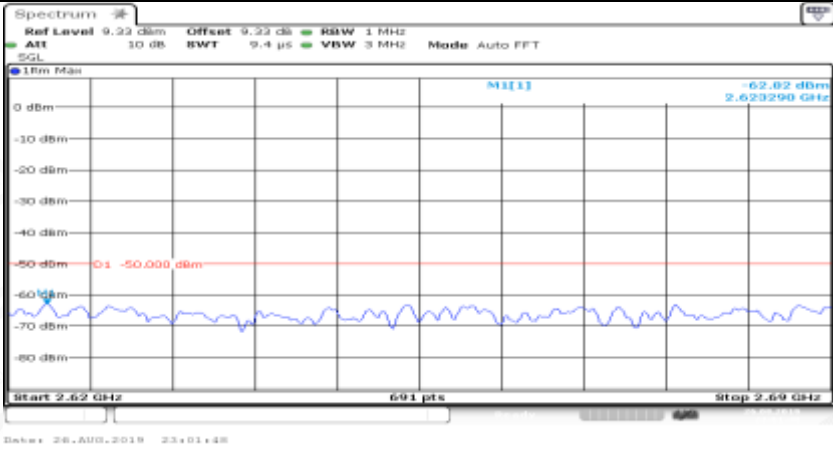
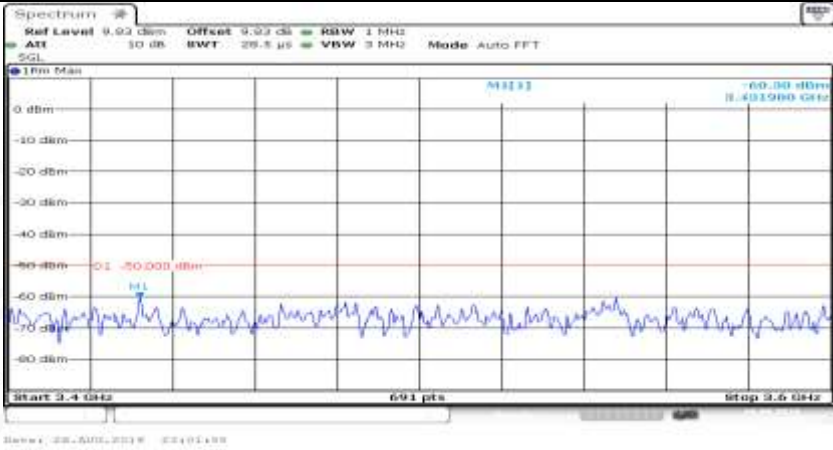
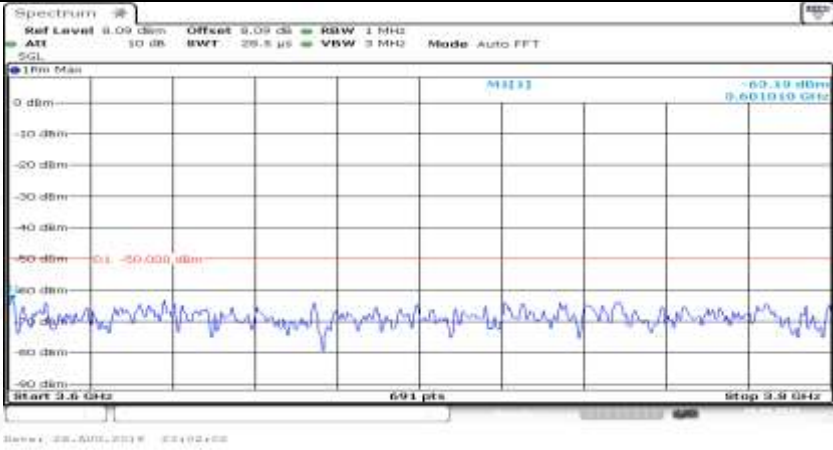
General	
General	
General	



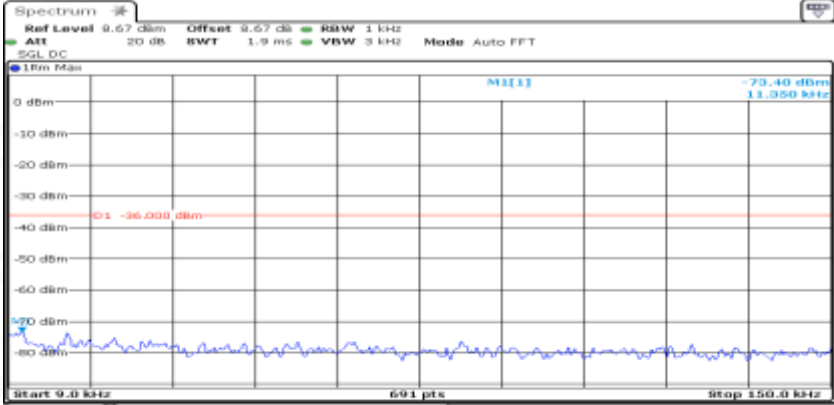
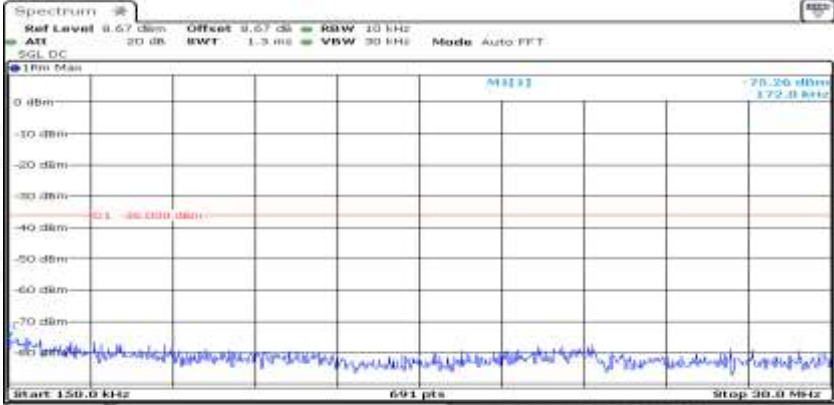
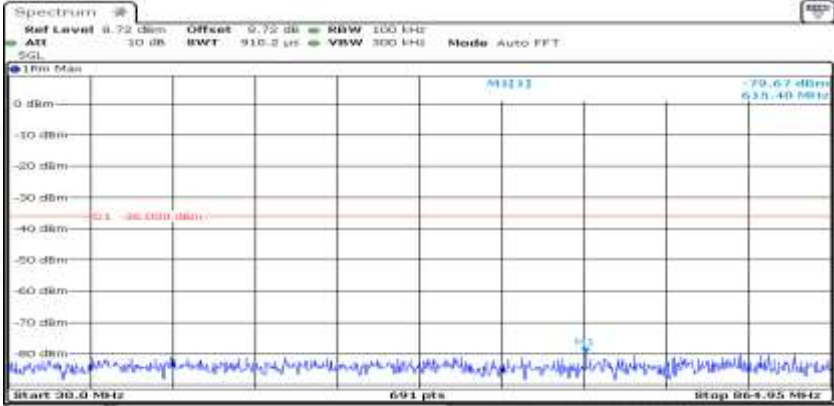
Co-existence	
Co-existence	
Co-existence	



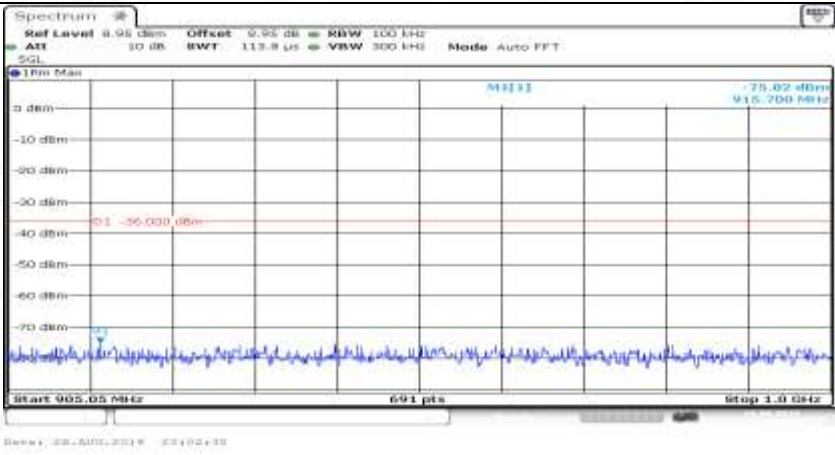
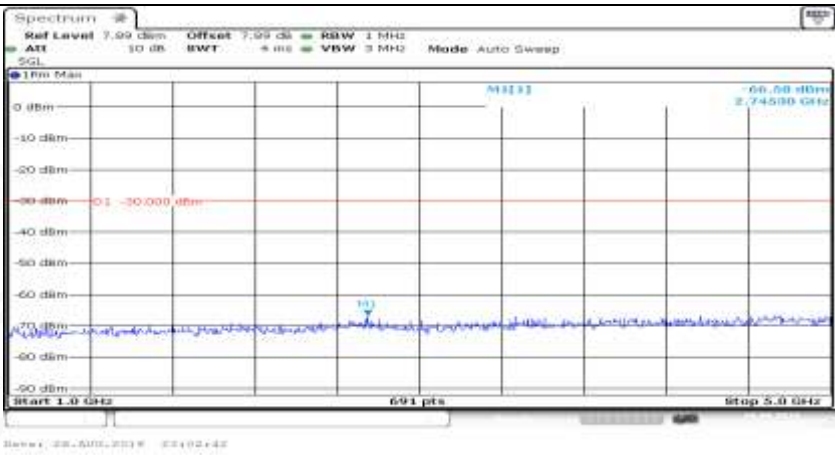
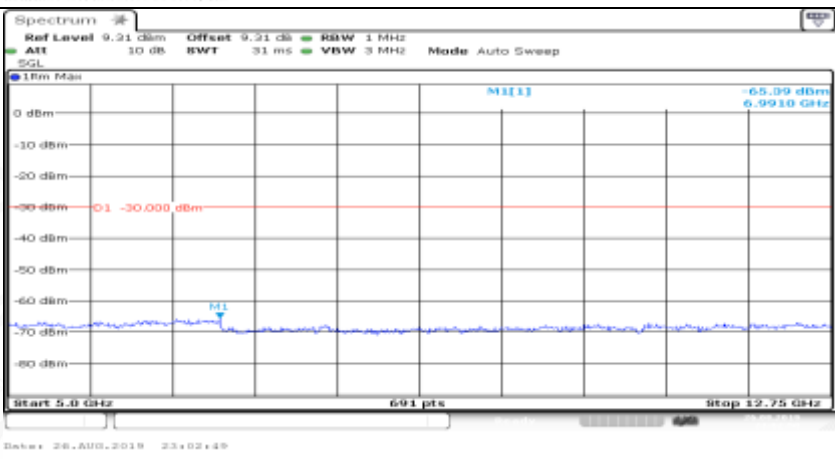
Co-existence	
Co-existence	
Co-existence	

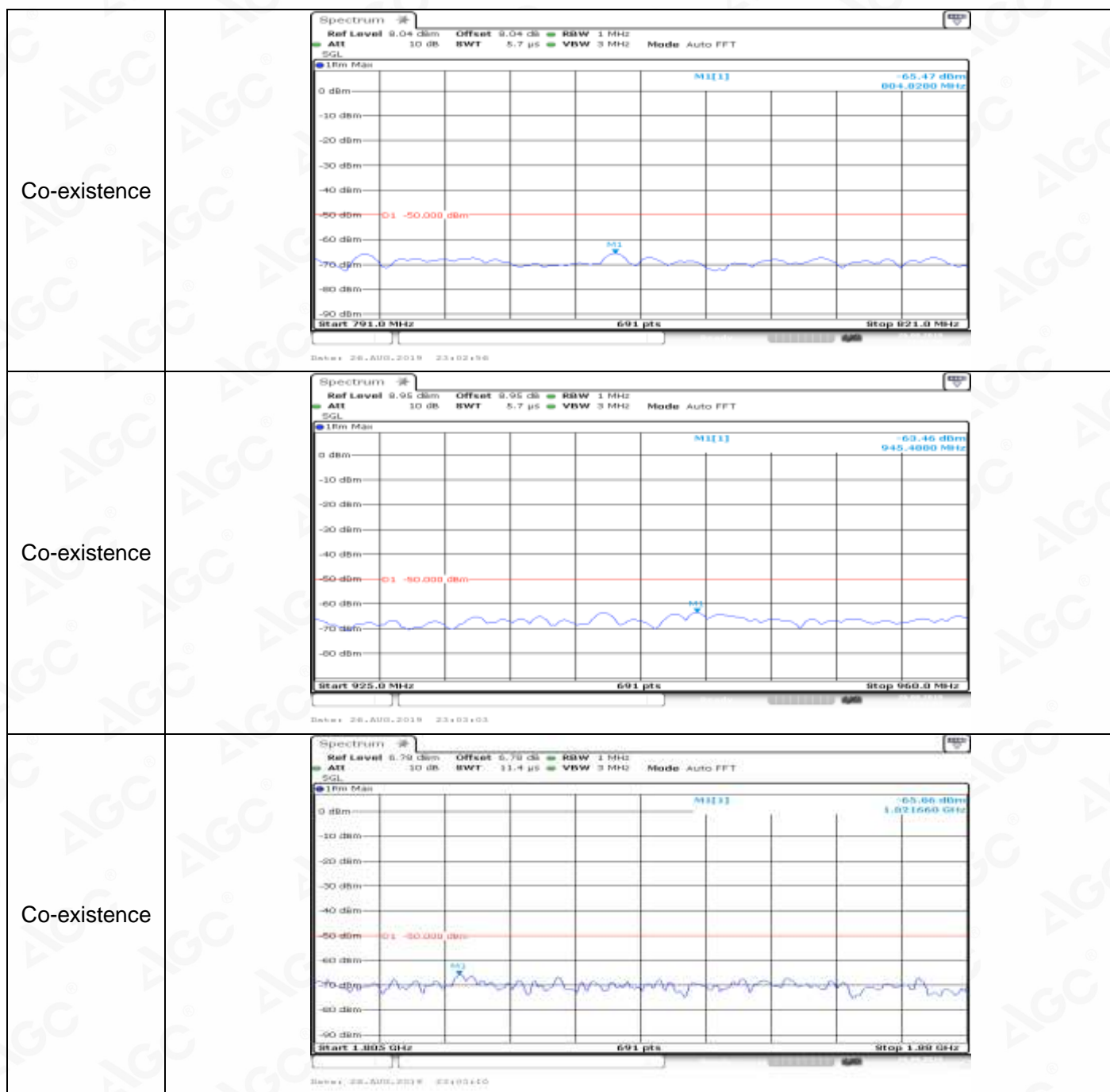
Co-existence	
Co-existence	
Co-existence	
Additional	NA

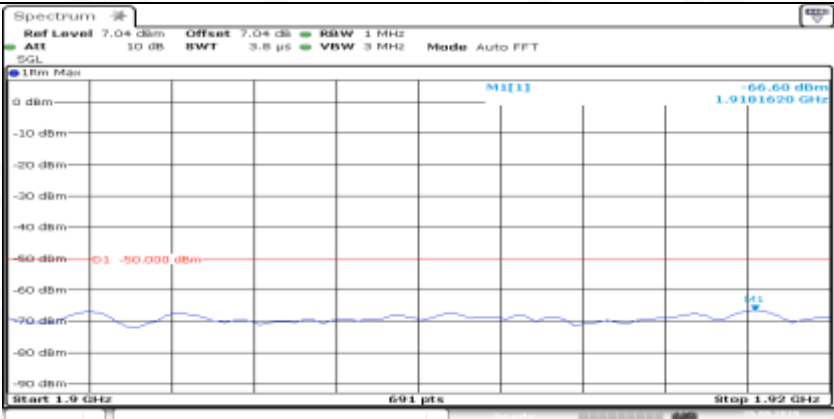
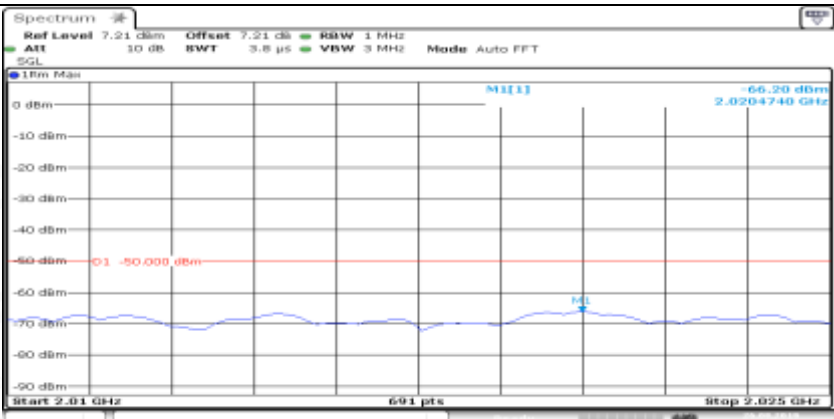
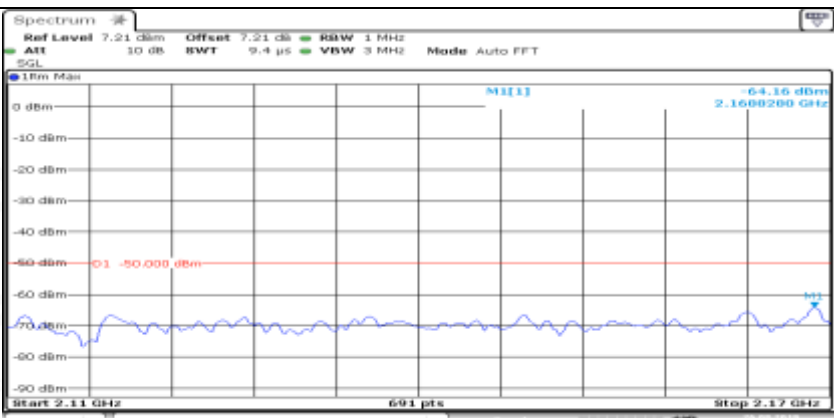
Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_1RB#max


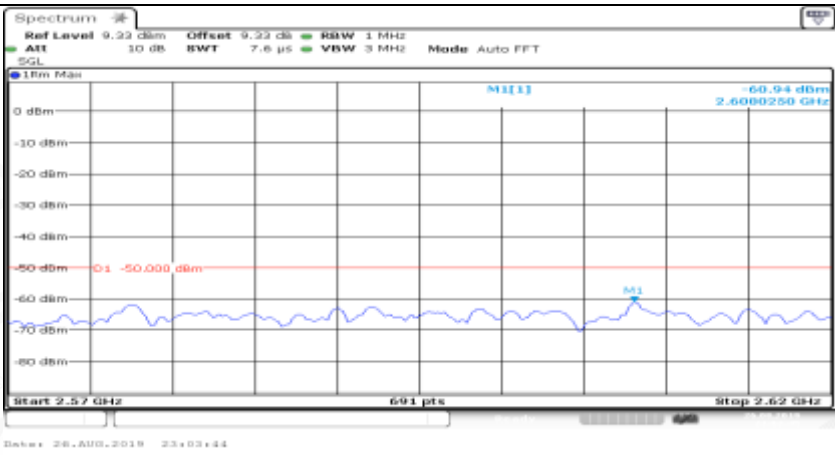
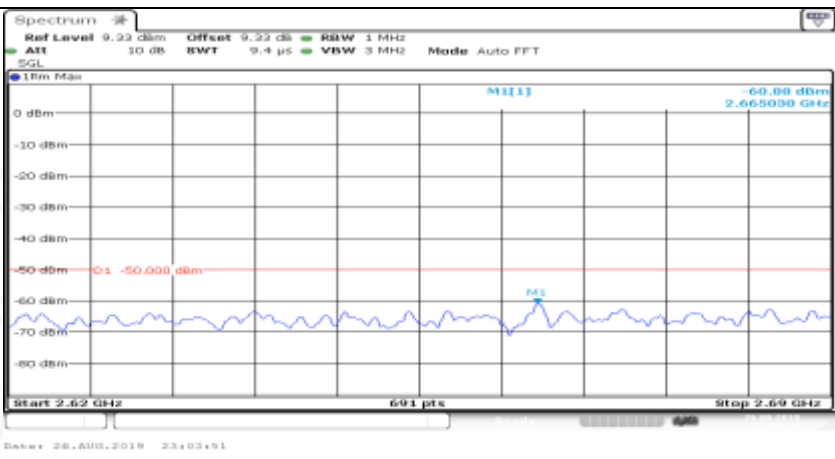
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB BW 1 kHz Att 20 dB SWT 1.9 ms VBW 3 kHz Mode Auto FFT SGL DC 10m Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 9.0 kHz 691 pts Stop 150.0 kHz Date: 28.AUG.2019 23:02:12</p>
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB BW 10 kHz Att 20 dB SWT 1.3 ms VBW 30 kHz Mode Auto FFT SGL DC 10m Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 150.0 kHz 691 pts Stop 30.0 MHz Date: 28.AUG.2019 23:02:22</p>
General	 <p>Ref Level 9.72 dBm Offset 9.72 dB BW 100 kHz Att 30 dB SWT 910.2 pts VBW 300 kHz Mode Auto FFT SGL 10m Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 30.0 MHz 691 pts Stop 66.905 MHz Date: 28.AUG.2019 23:02:33</p>

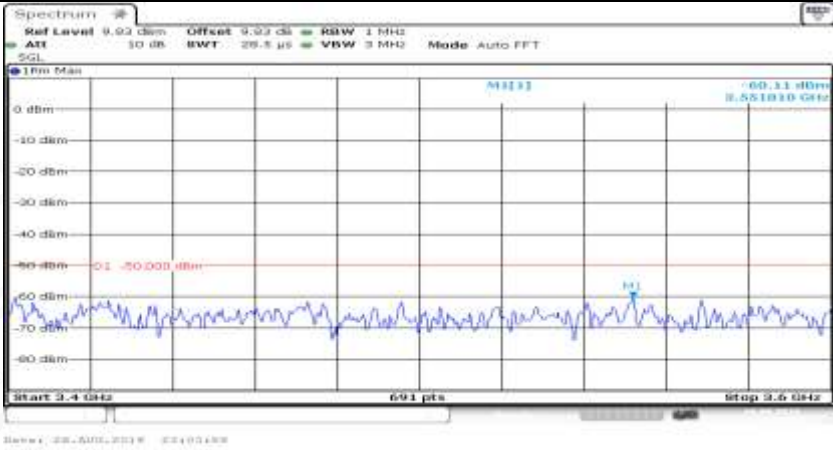
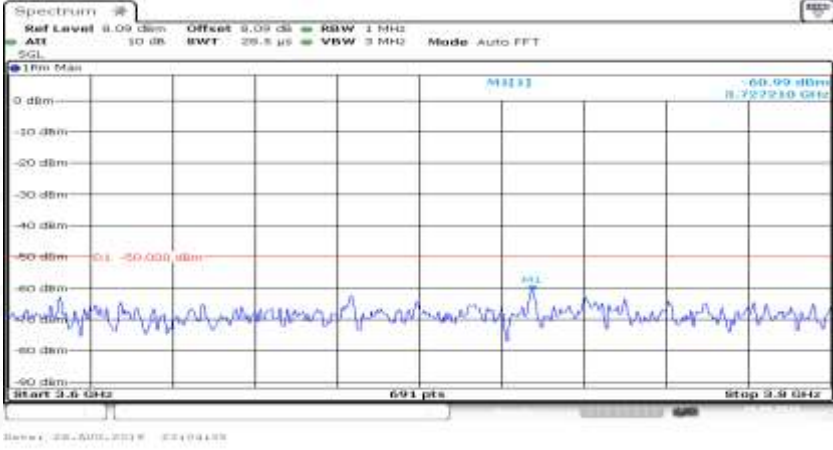


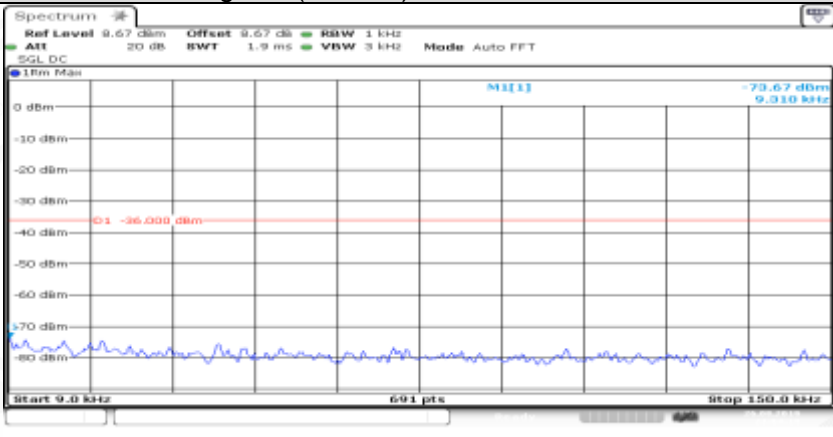
General	
General	
General	

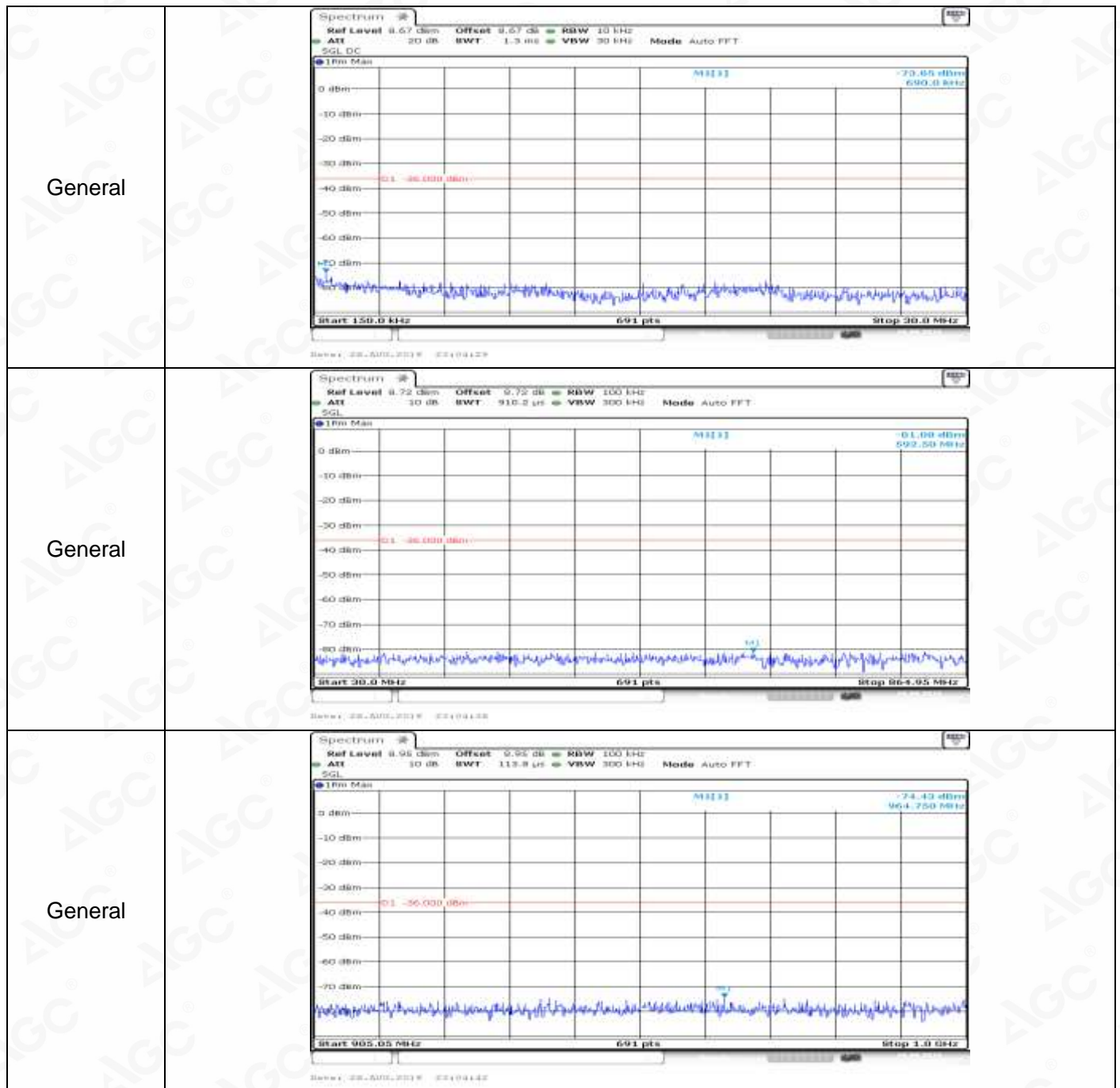


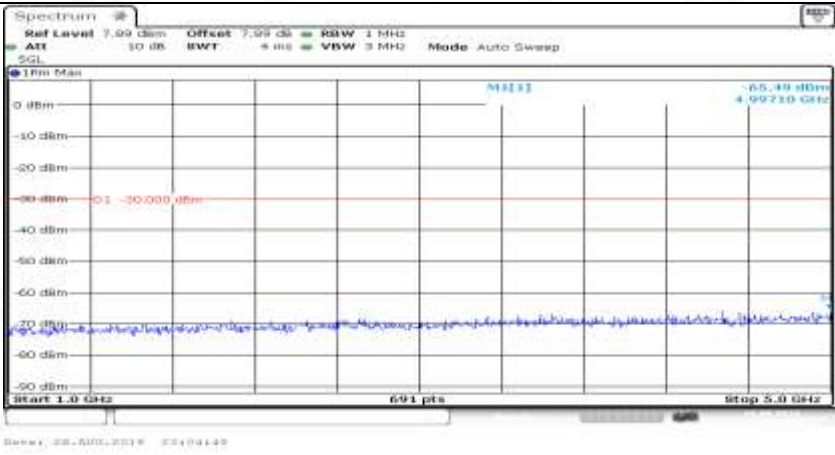
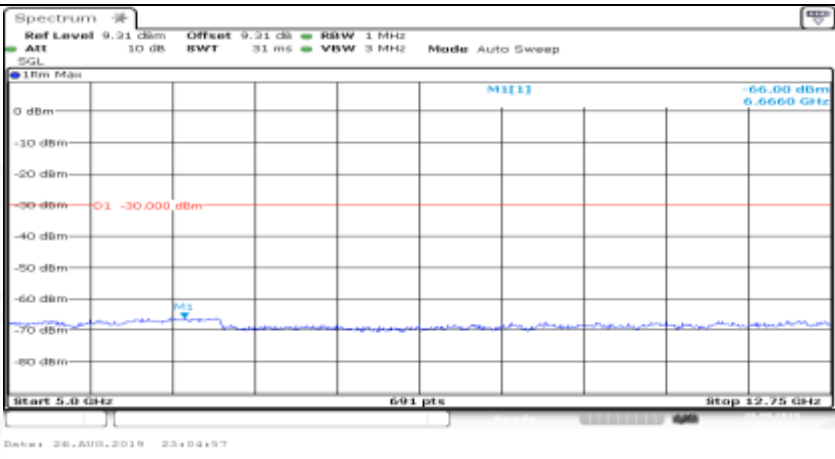
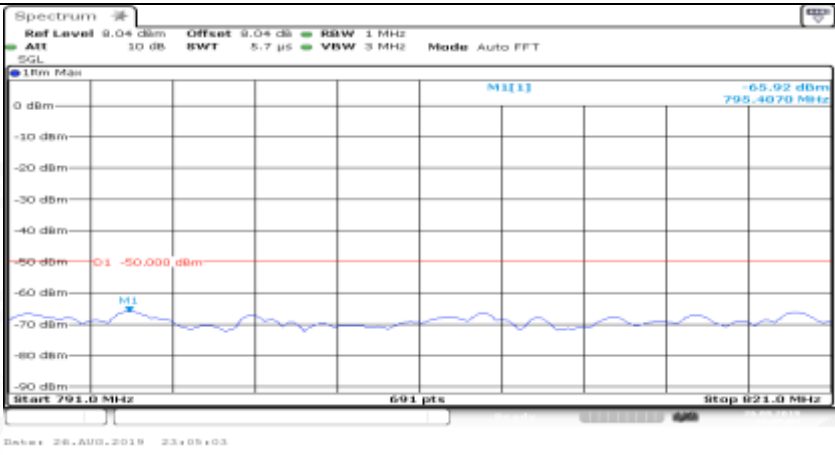
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz ATT 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -66.60 dBm 1.9101620 GHz</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 26.AUG.2019 23:03:17</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz ATT 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -66.20 dBm 2.0204740 GHz</p> <p>Start 2.0 GHz 691 pts Stop 2.025 GHz</p> <p>Date: 26.AUG.2019 23:03:24</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz ATT 10 dB SWT 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>M1[1] -64.16 dBm 2.1600200 GHz</p> <p>Start 2.1 GHz 691 pts Stop 2.17 GHz</p> <p>Date: 26.AUG.2019 23:03:31</p>

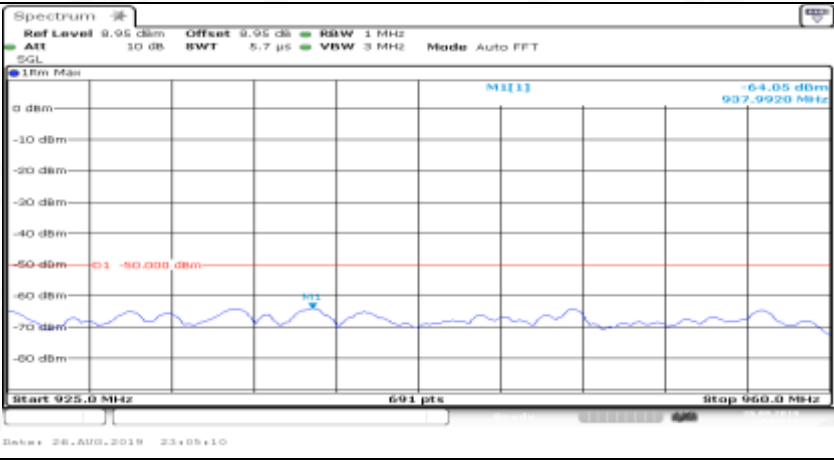

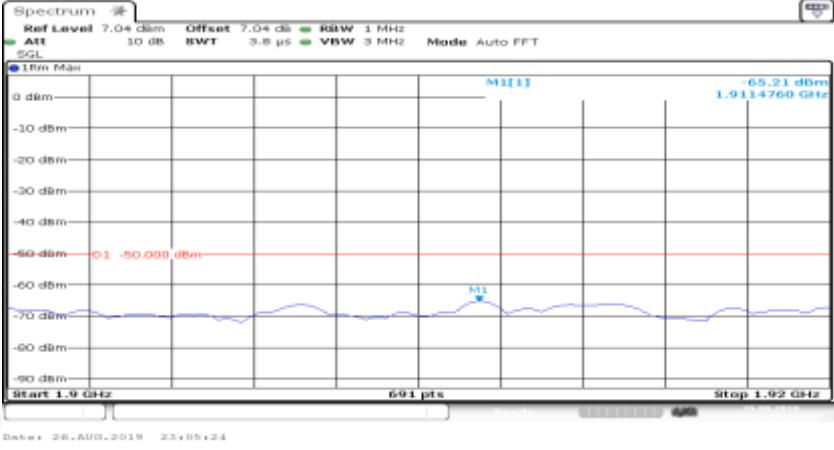
Co-existence	
Co-existence	
Co-existence	

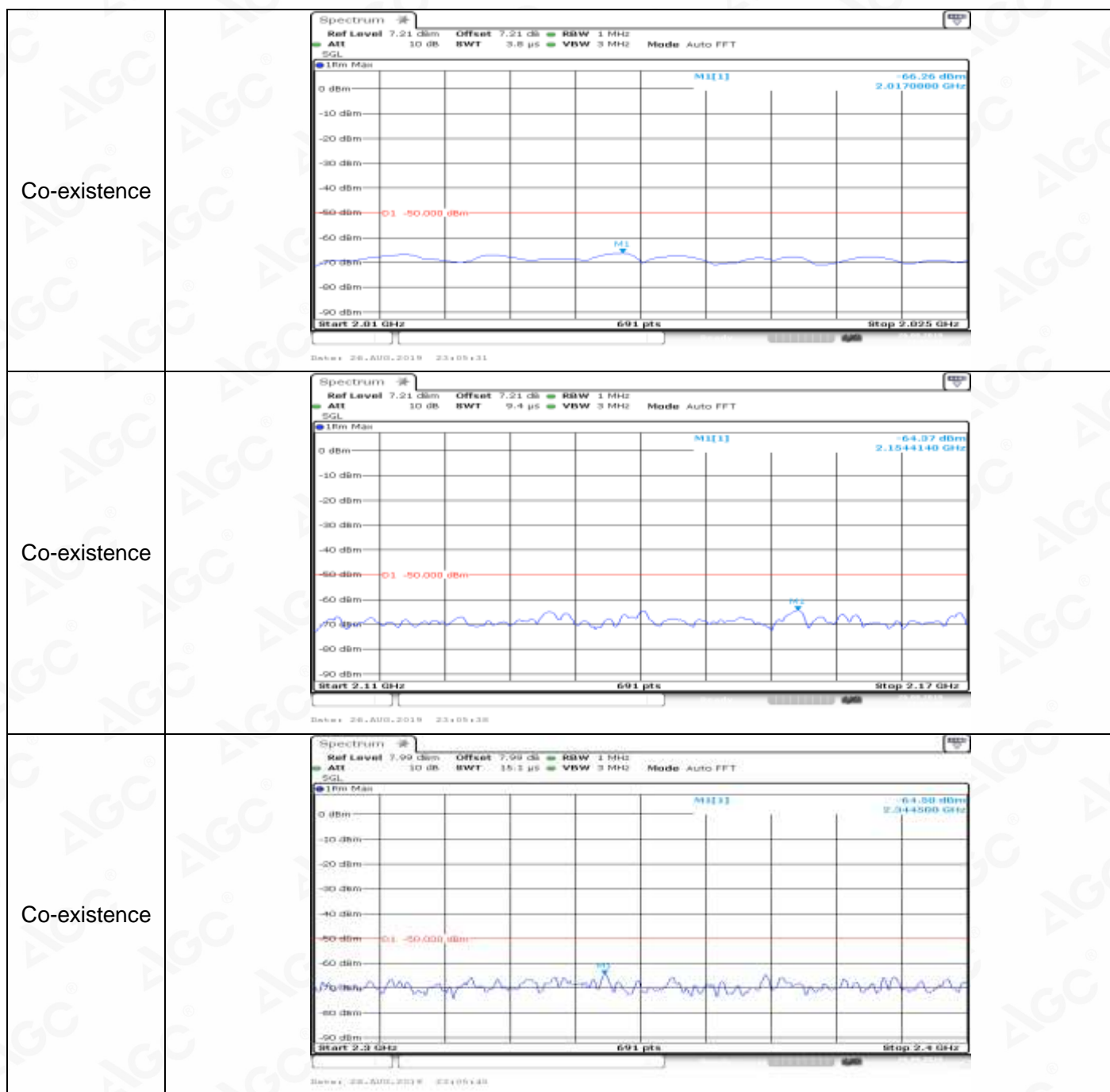
Co-existence	
Co-existence	
Additional	NA

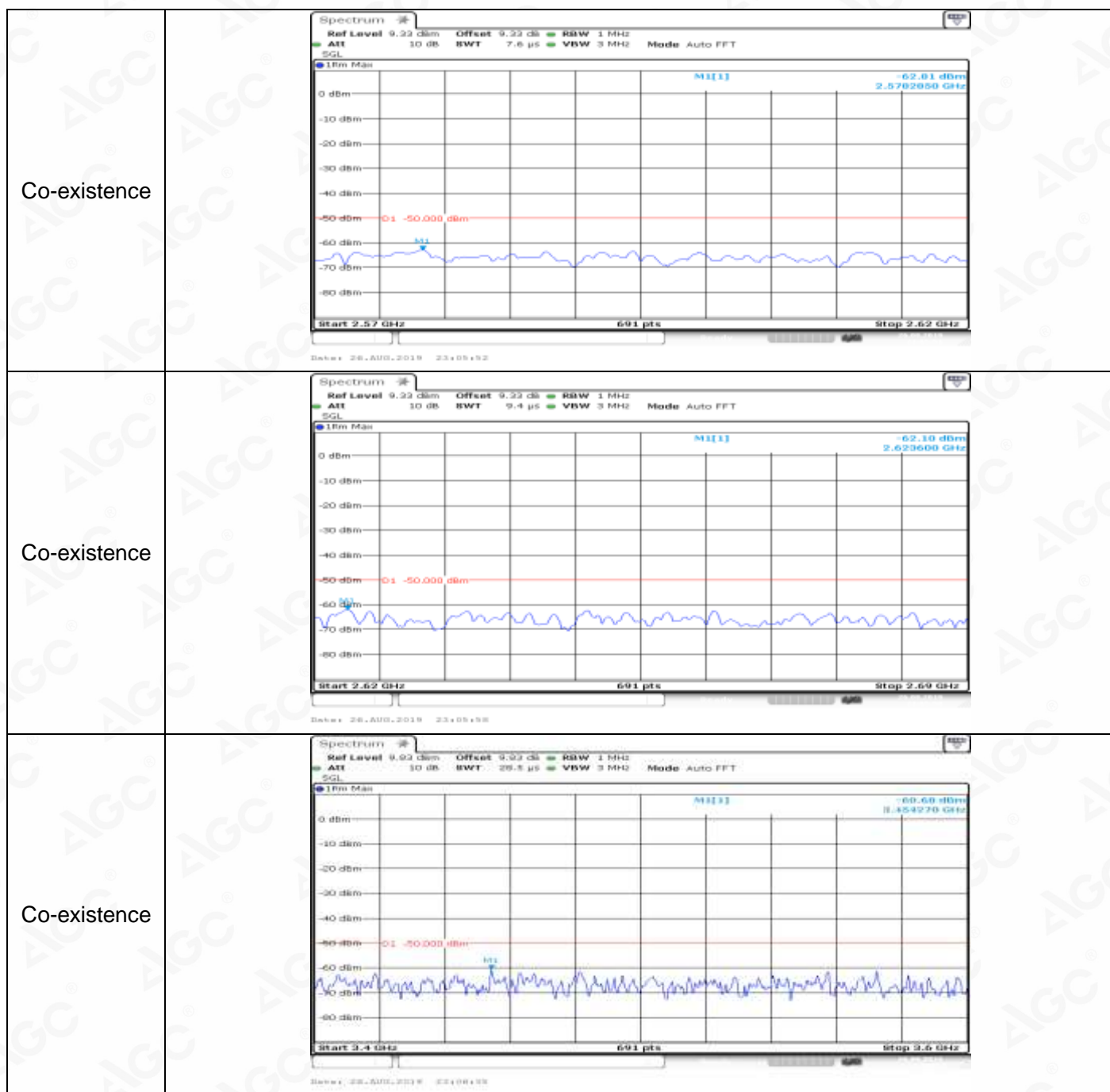
Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_FullIRB#0	
General	



General	
General	
Co-existence	

Co-existence	
Co-existence	
Co-existence	

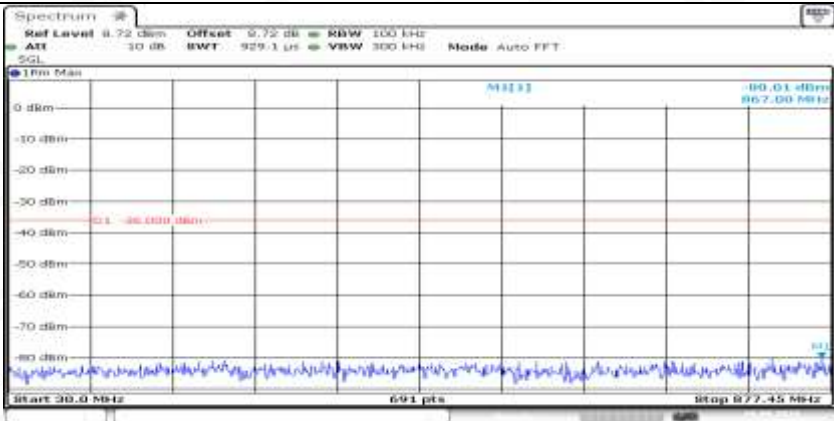
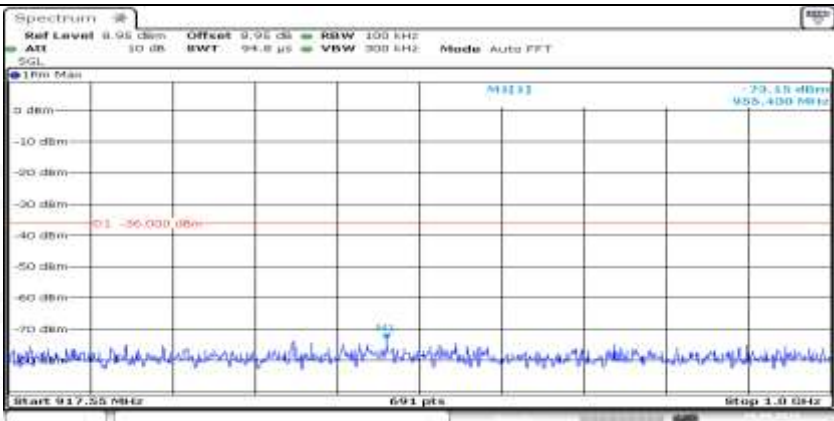
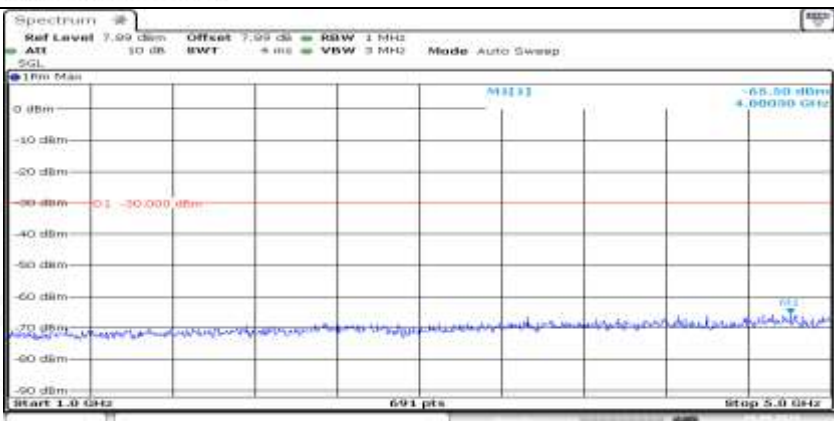




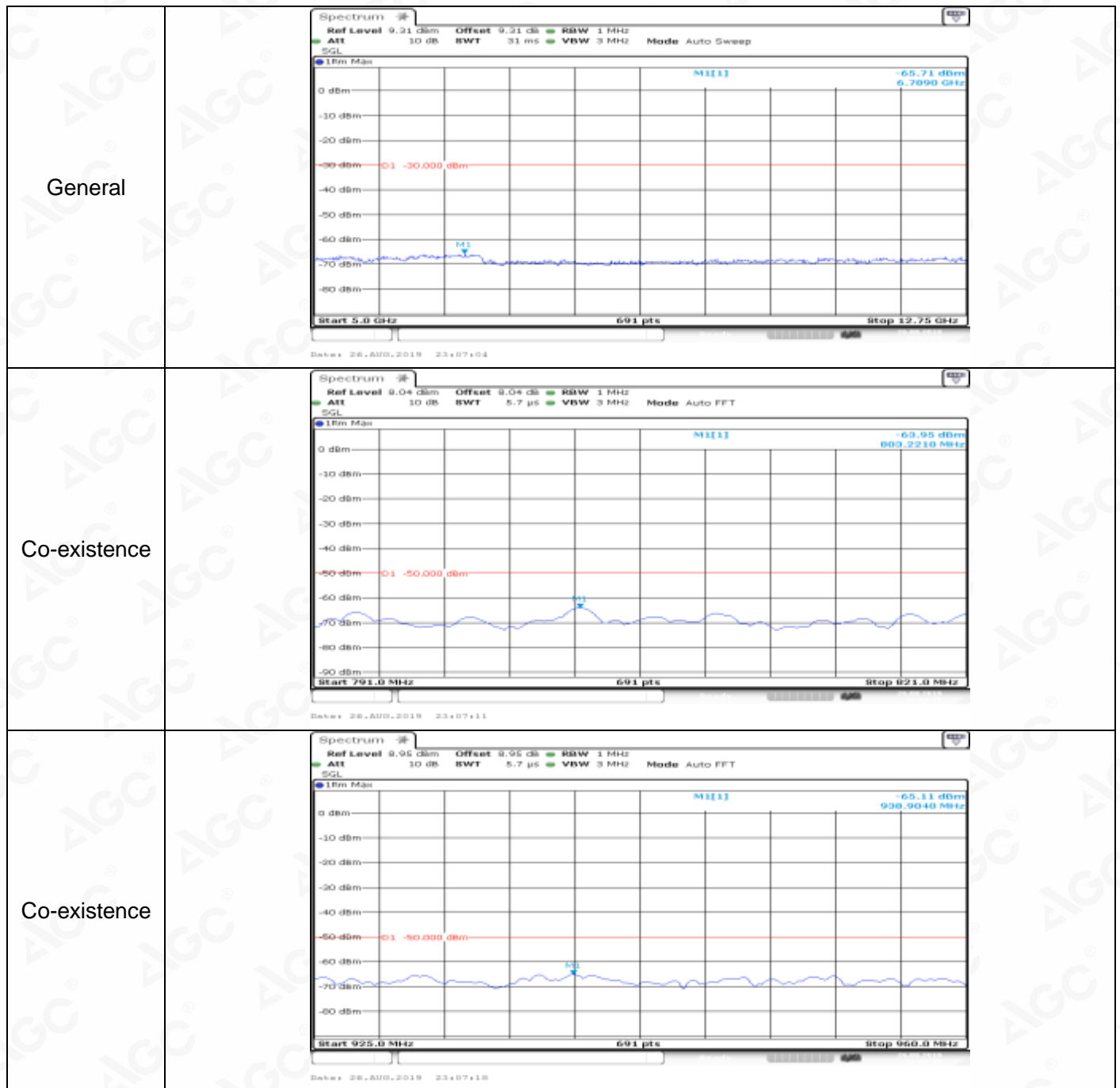
Co-existence	
Additional	NA

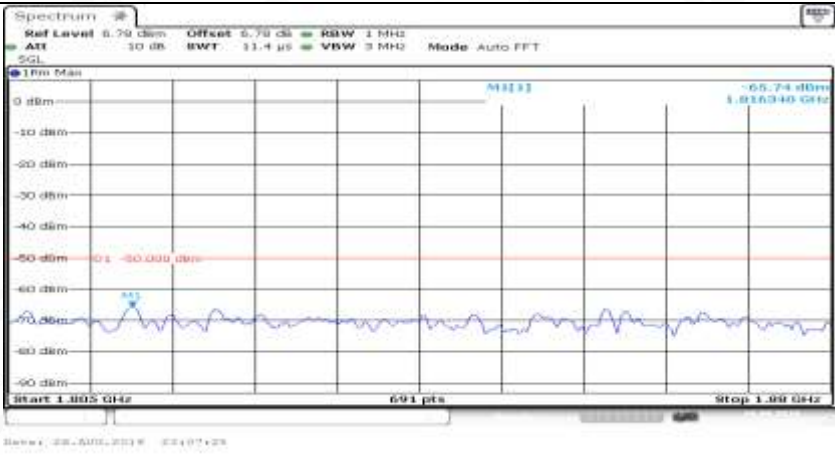
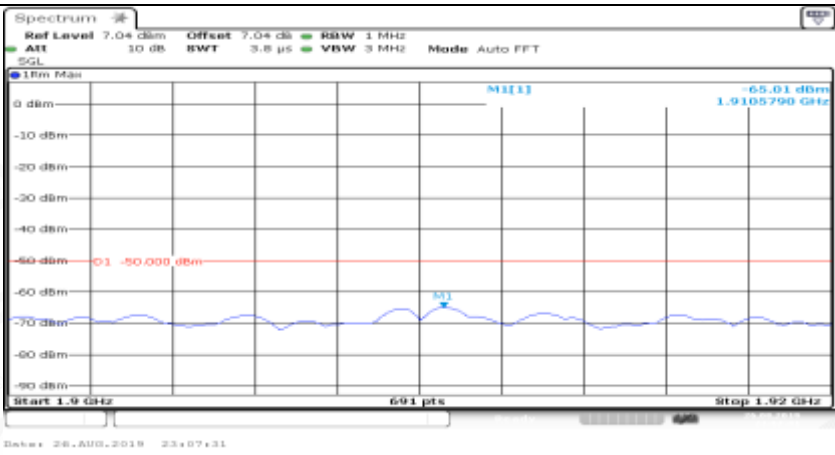
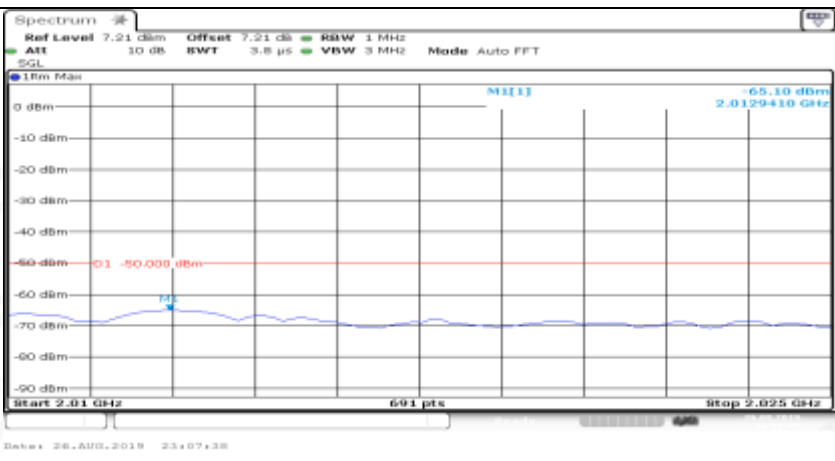
Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#0

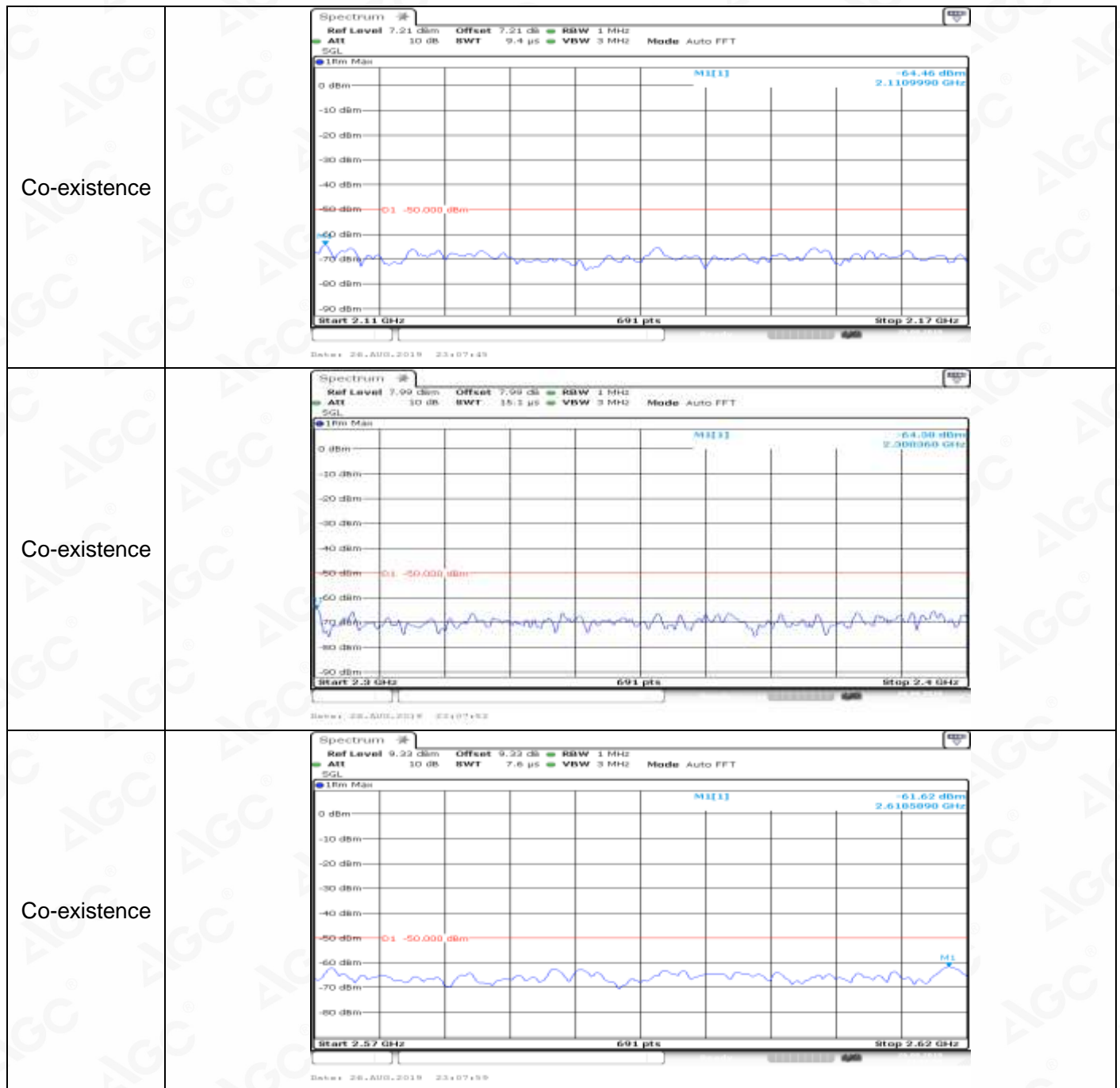
General	
General	

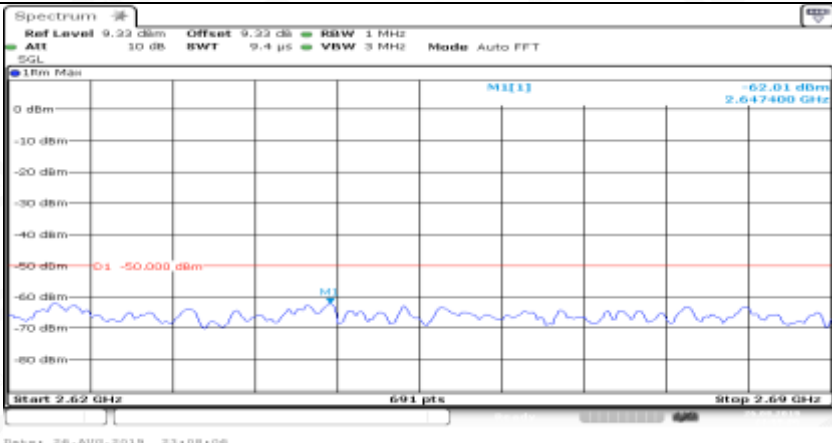
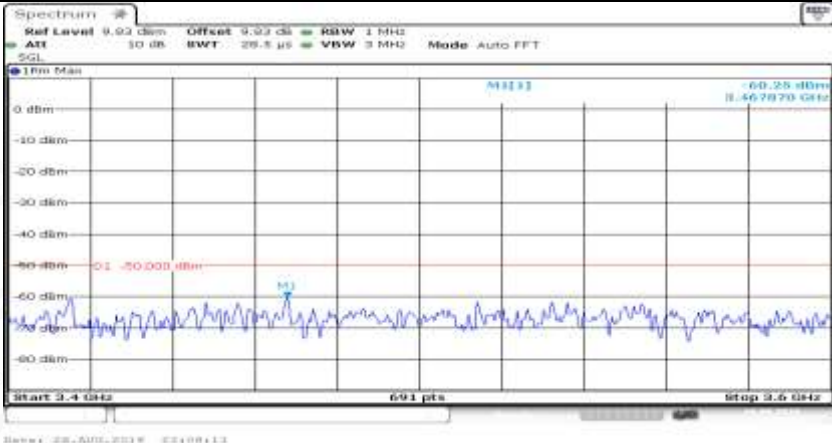
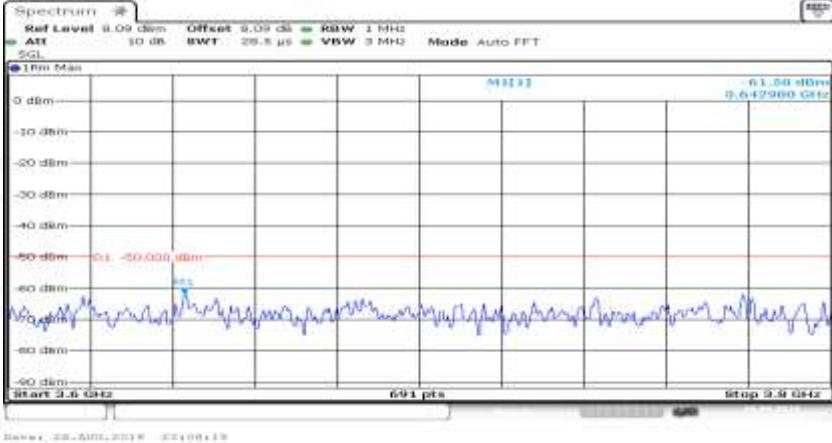
General	 <p>Spectrum plot showing a flat line at -30 dBm across the frequency range from 30.0 MHz to 877.45 MHz. The plot includes a grid and various measurement parameters at the top.</p>
General	 <p>Spectrum plot showing a flat line at -30 dBm across the frequency range from 917.55 MHz to 1.0 GHz. The plot includes a grid and various measurement parameters at the top.</p>
General	 <p>Spectrum plot showing a flat line at -30 dBm across the frequency range from 1.0 GHz to 5.0 GHz. The plot includes a grid and various measurement parameters at the top.</p>



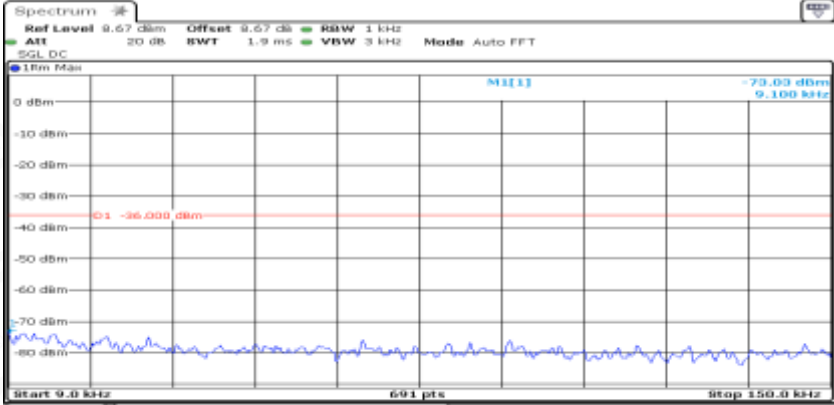
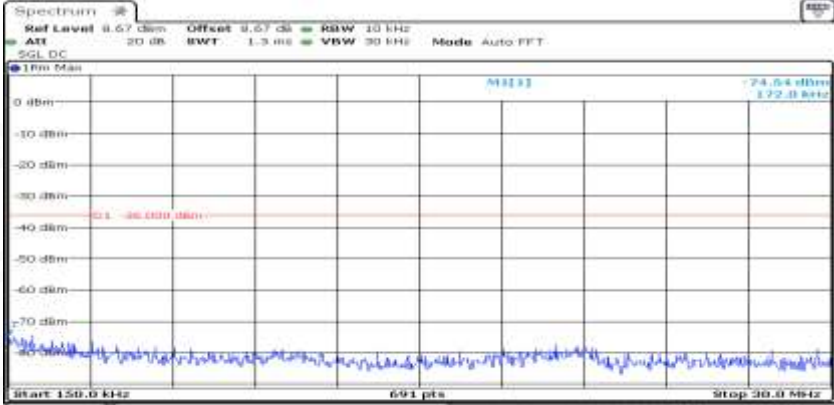
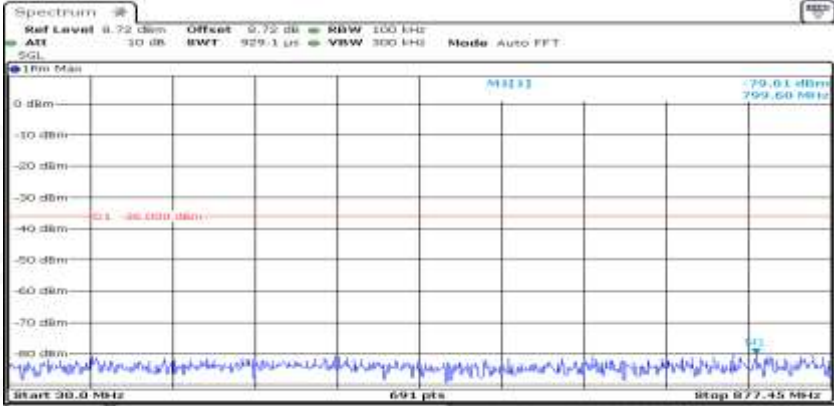


Co-existence	
Co-existence	
Co-existence	

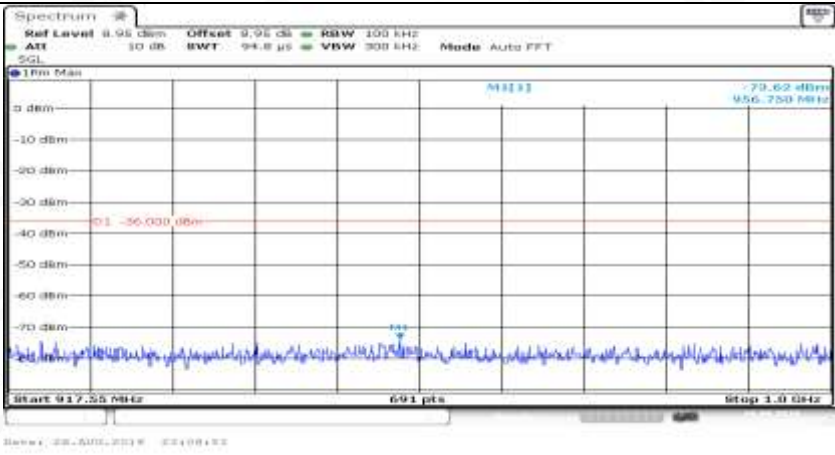
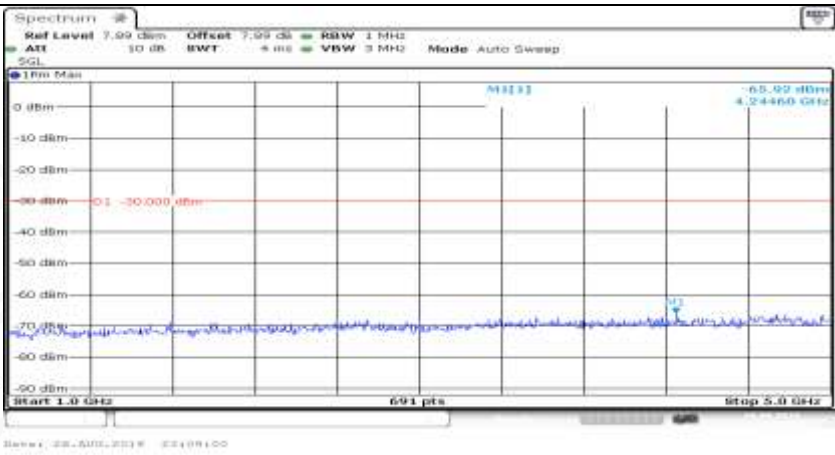
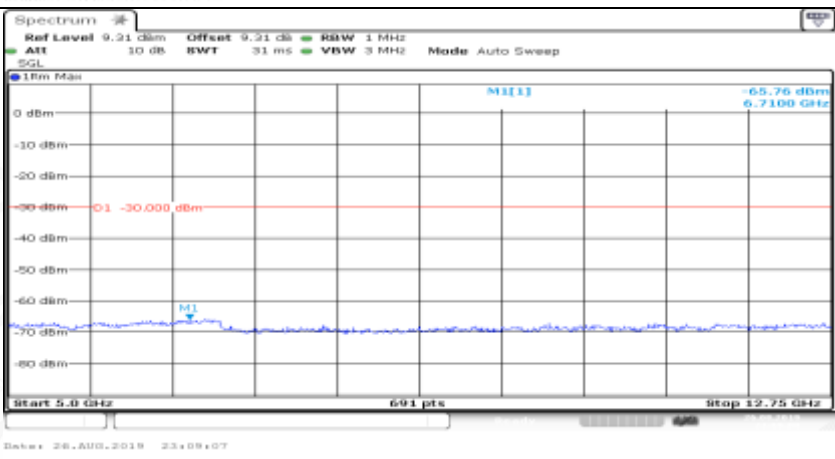


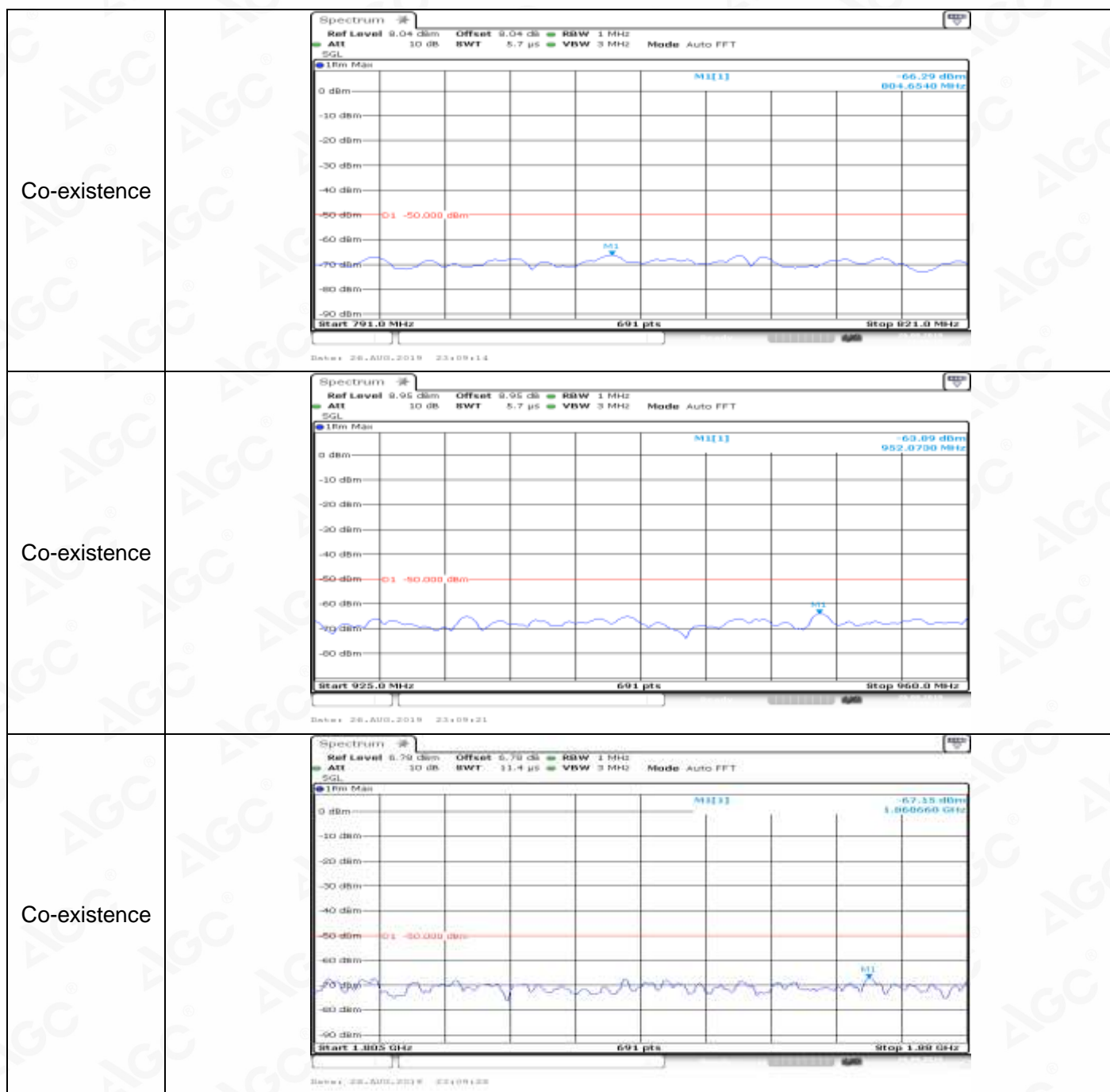
Co-existence	
Co-existence	
Co-existence	
Additional	NA

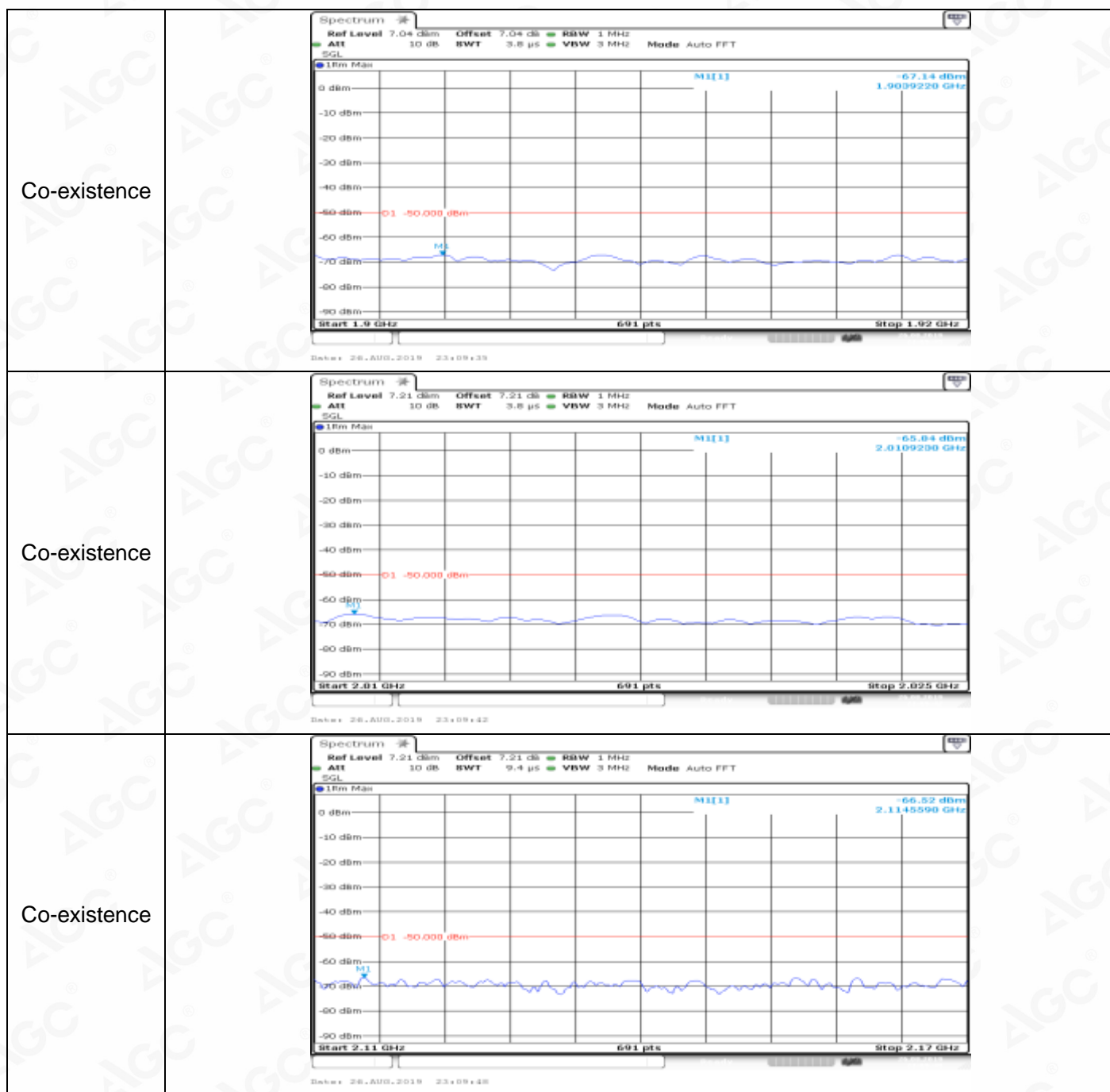
Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#max

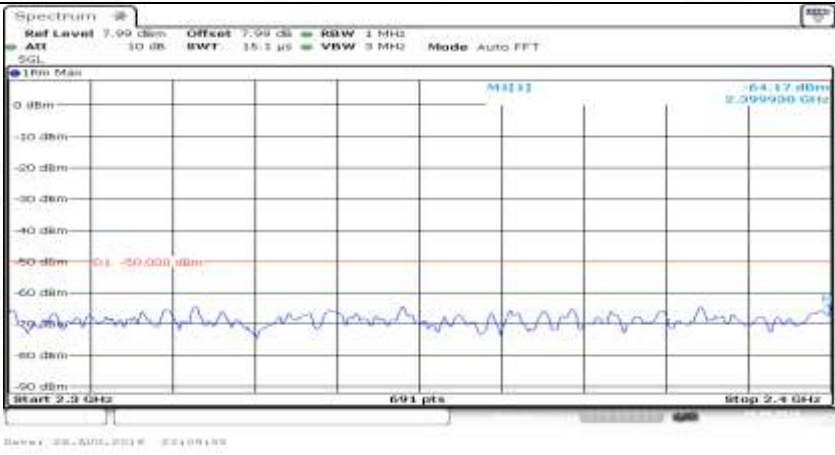
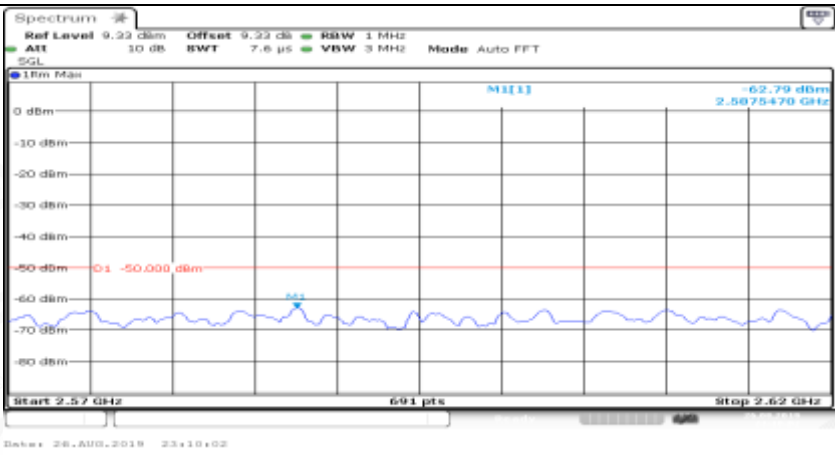
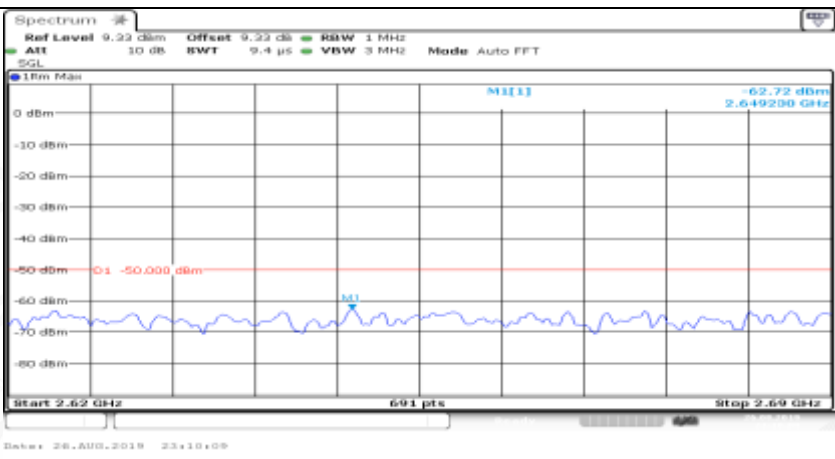
General	
General	
General	

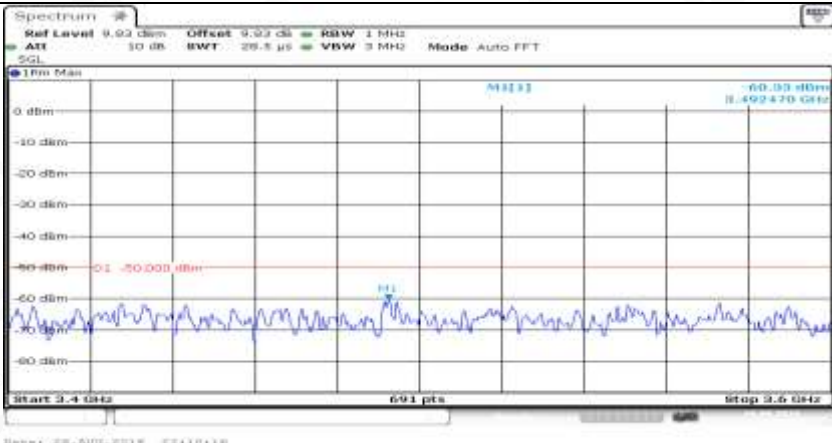
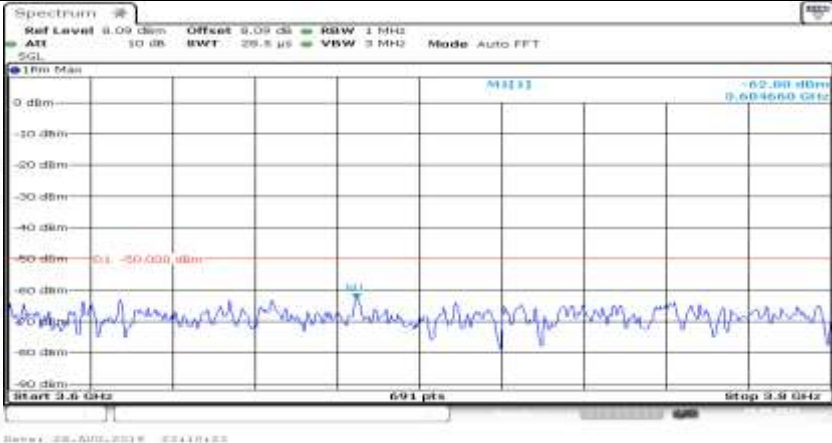


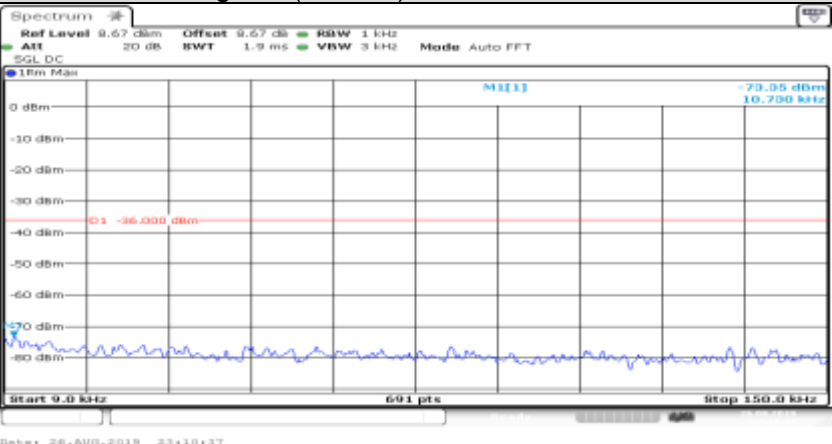
General	
General	
General	

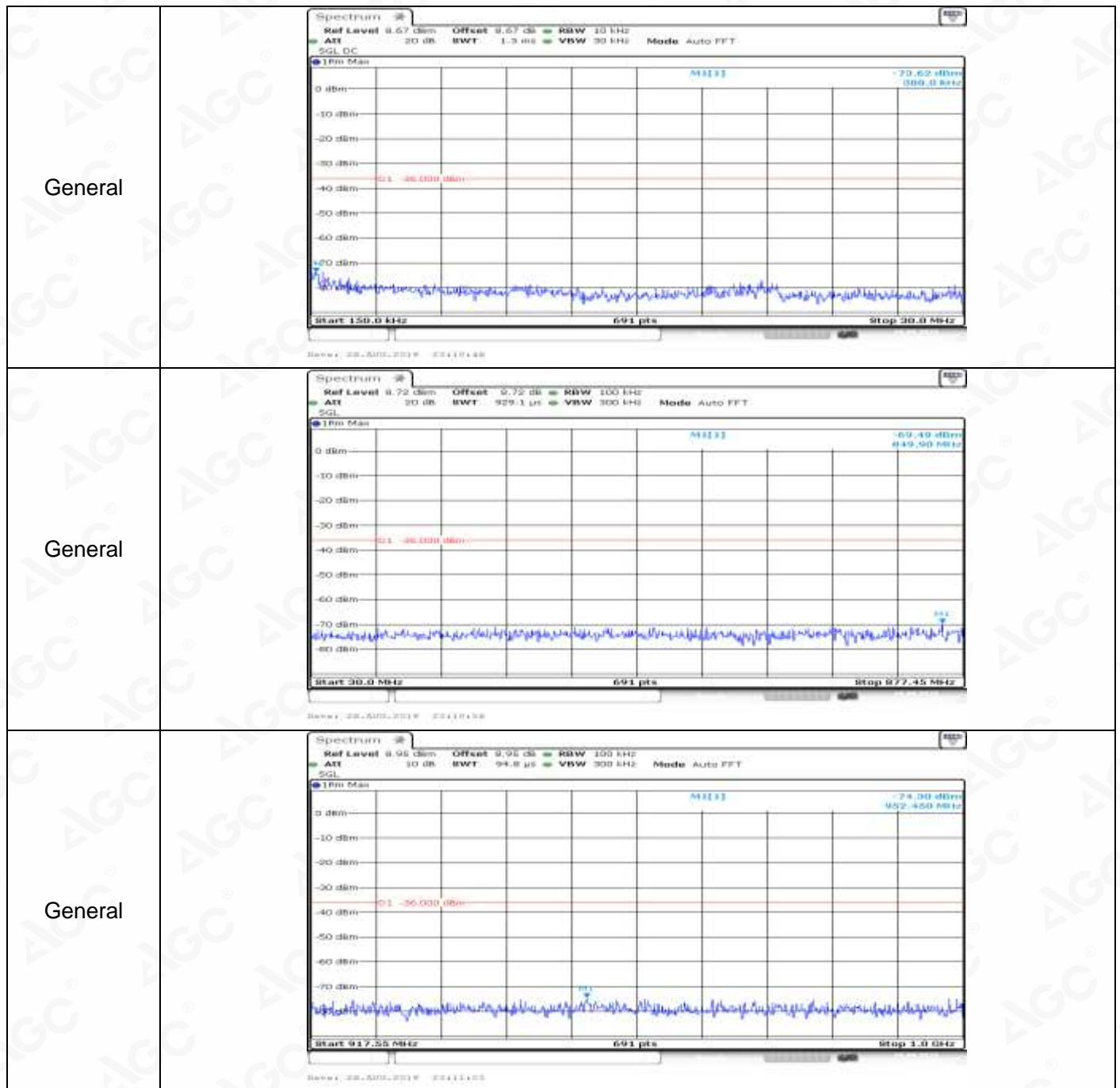


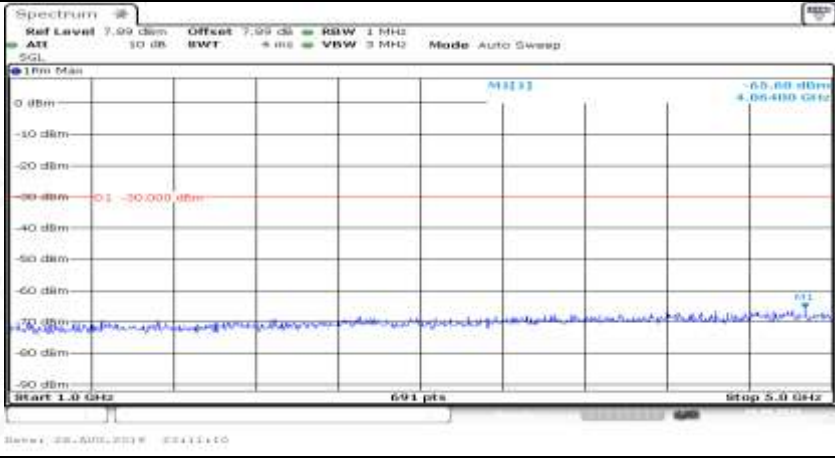
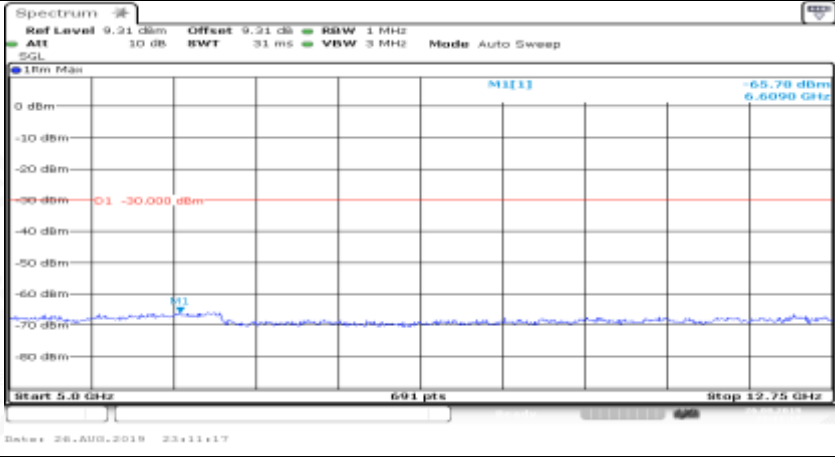
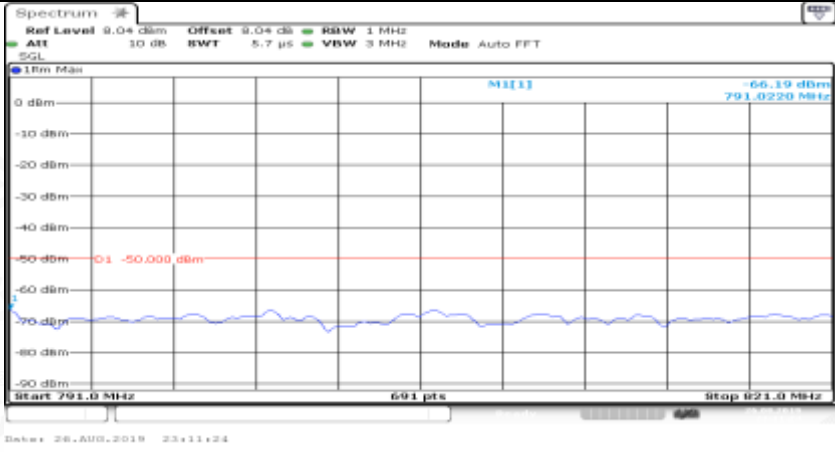


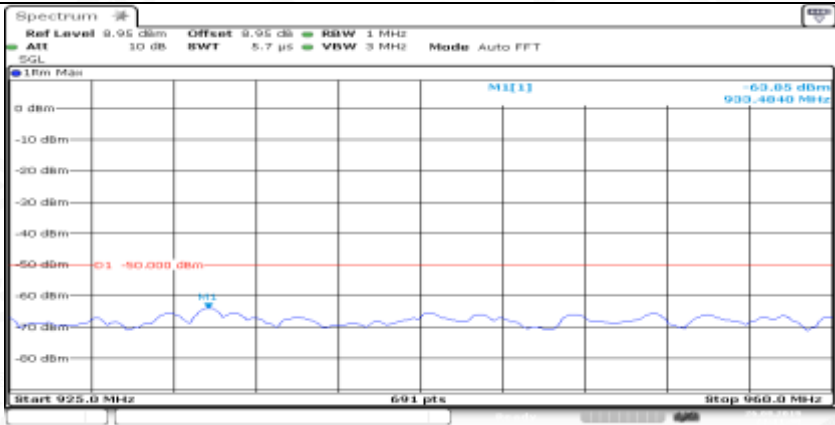
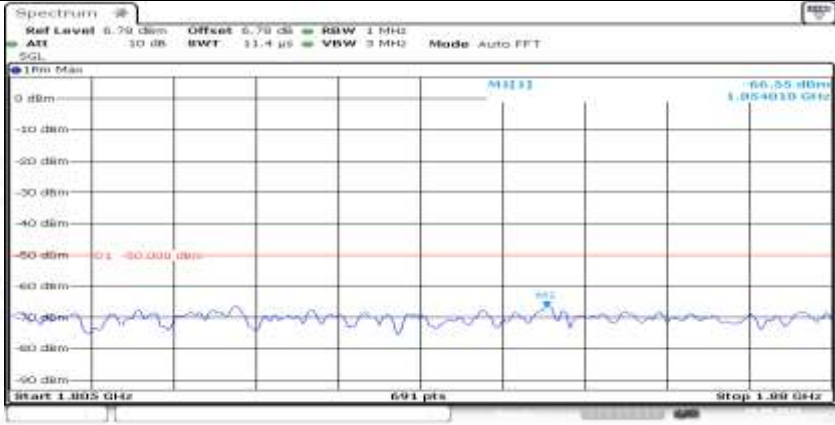
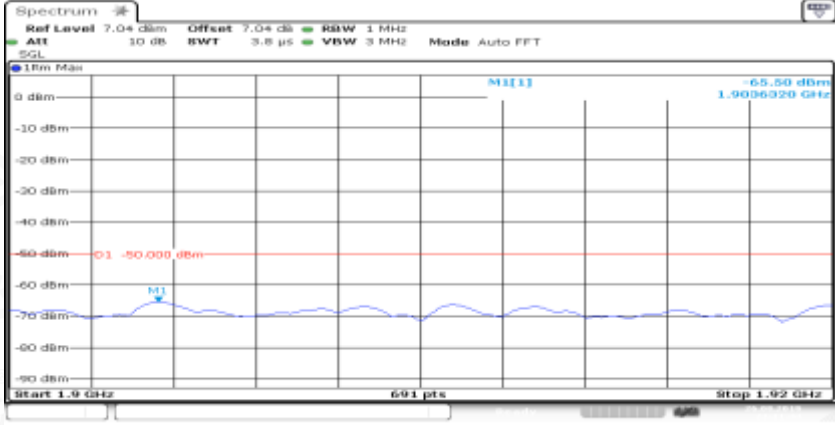
Co-existence	
Co-existence	
Co-existence	

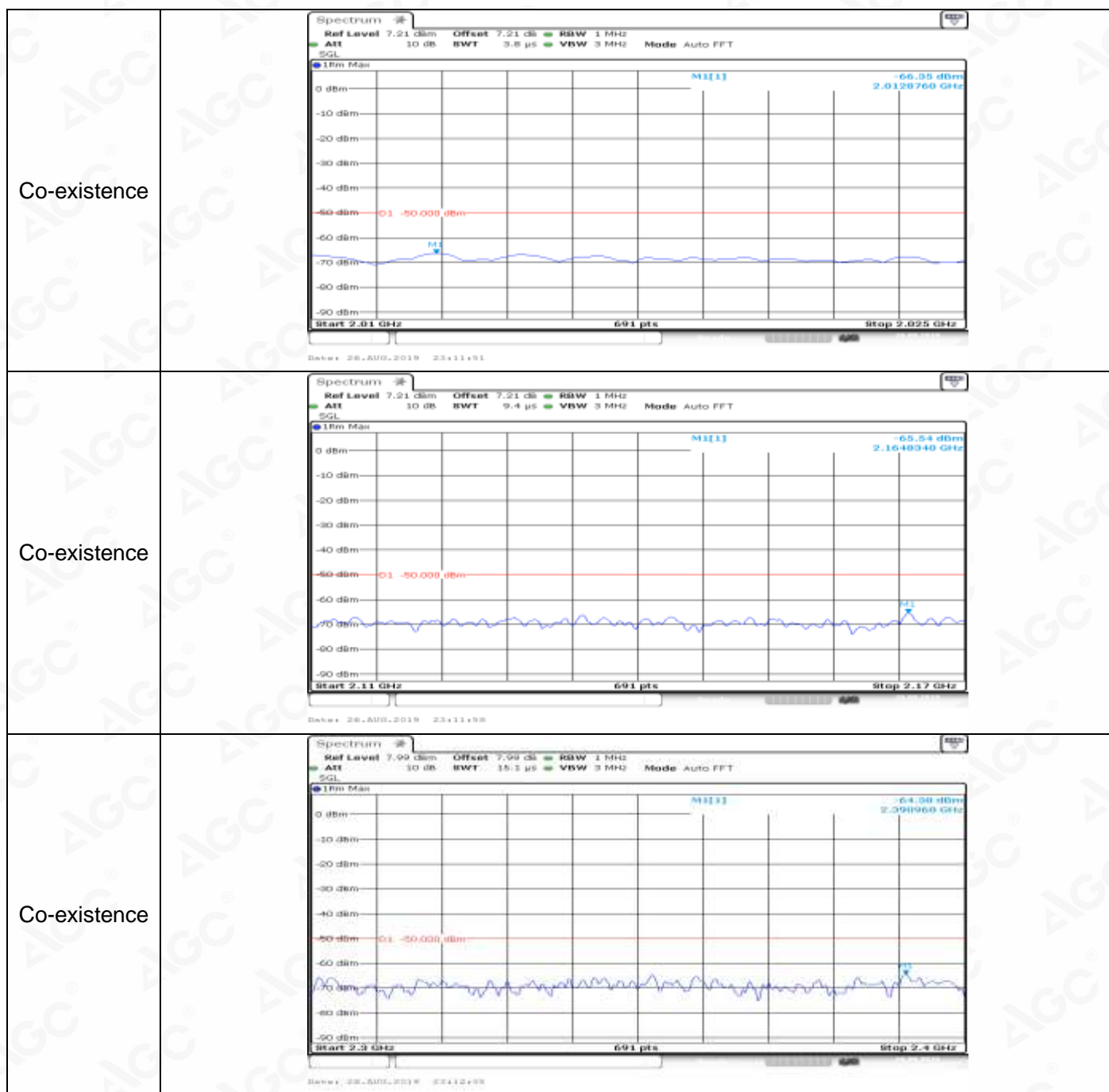
Co-existence	
Co-existence	
Additional	NA

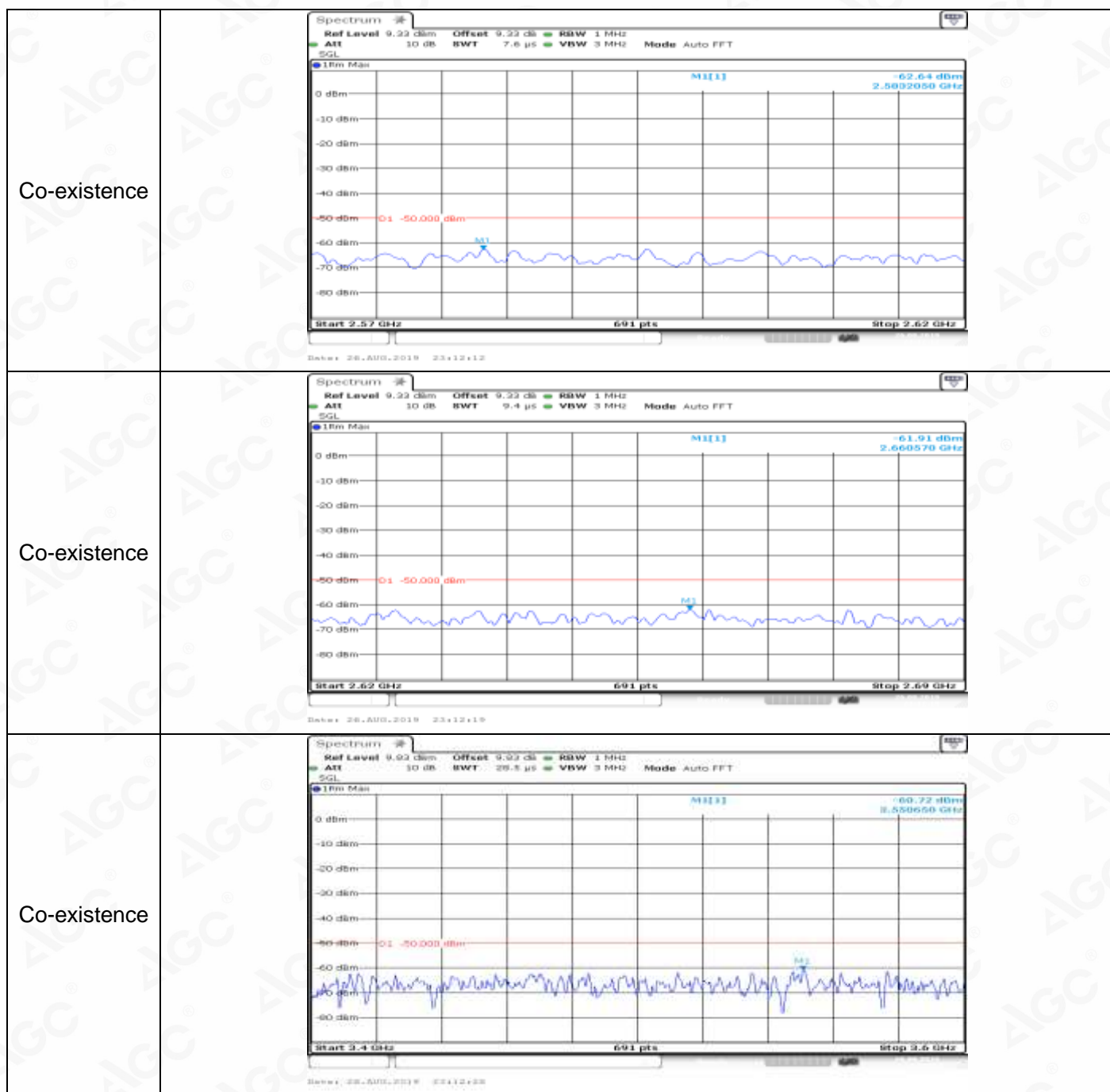
Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_FullRB#0	
General	

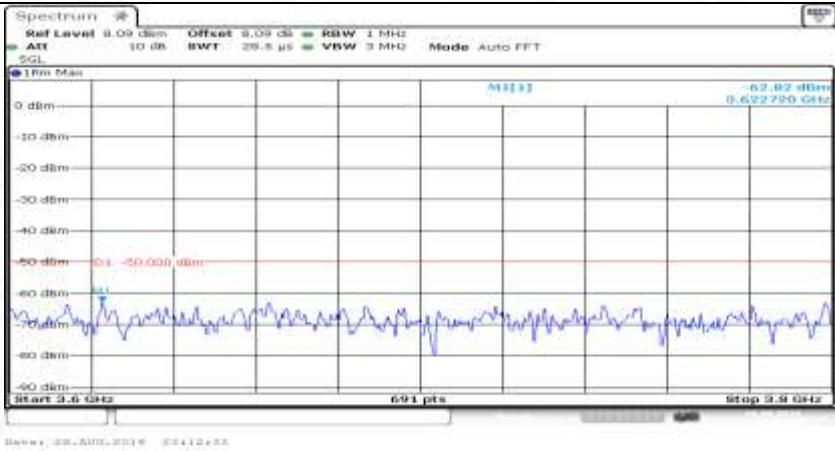


General	
General	
Co-existence	

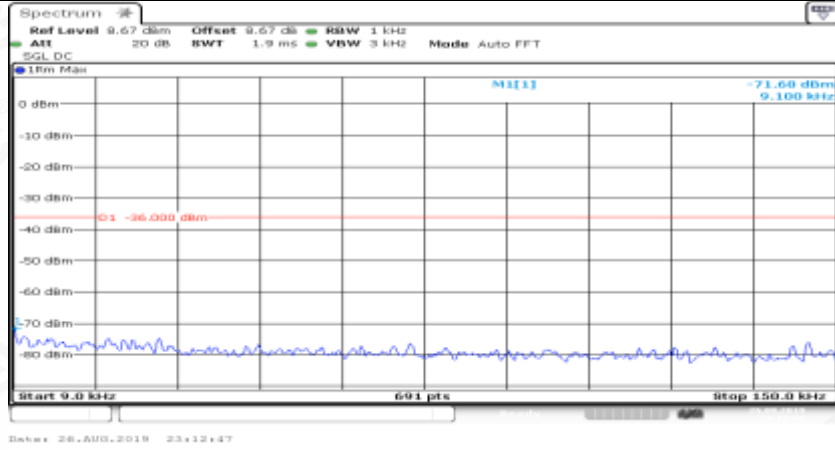
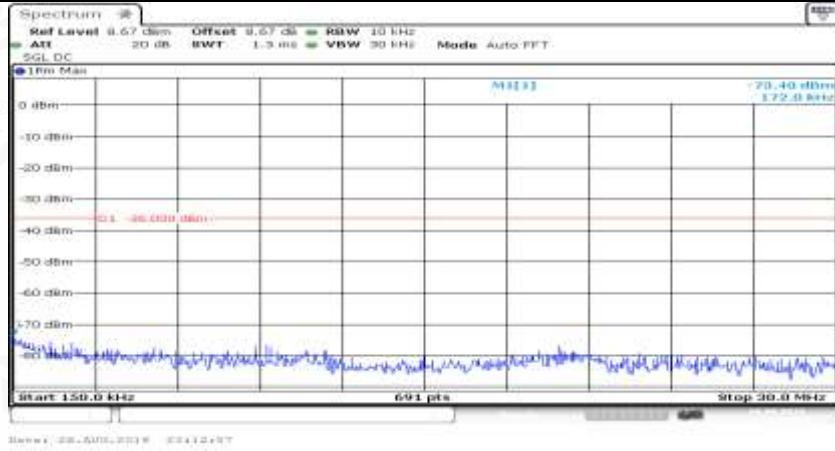
Co-existence	 <p>Start 925.0 MHz Stop 960.0 MHz</p> <p>Date: 28.AUG.2019 23:11:31</p>
Co-existence	 <p>Start 1.005 GHz Stop 1.01 GHz</p> <p>Date: 28.AUG.2019 23:11:32</p>
Co-existence	 <p>Start 1.9 GHz Stop 1.92 GHz</p> <p>Date: 28.AUG.2019 23:11:35</p>

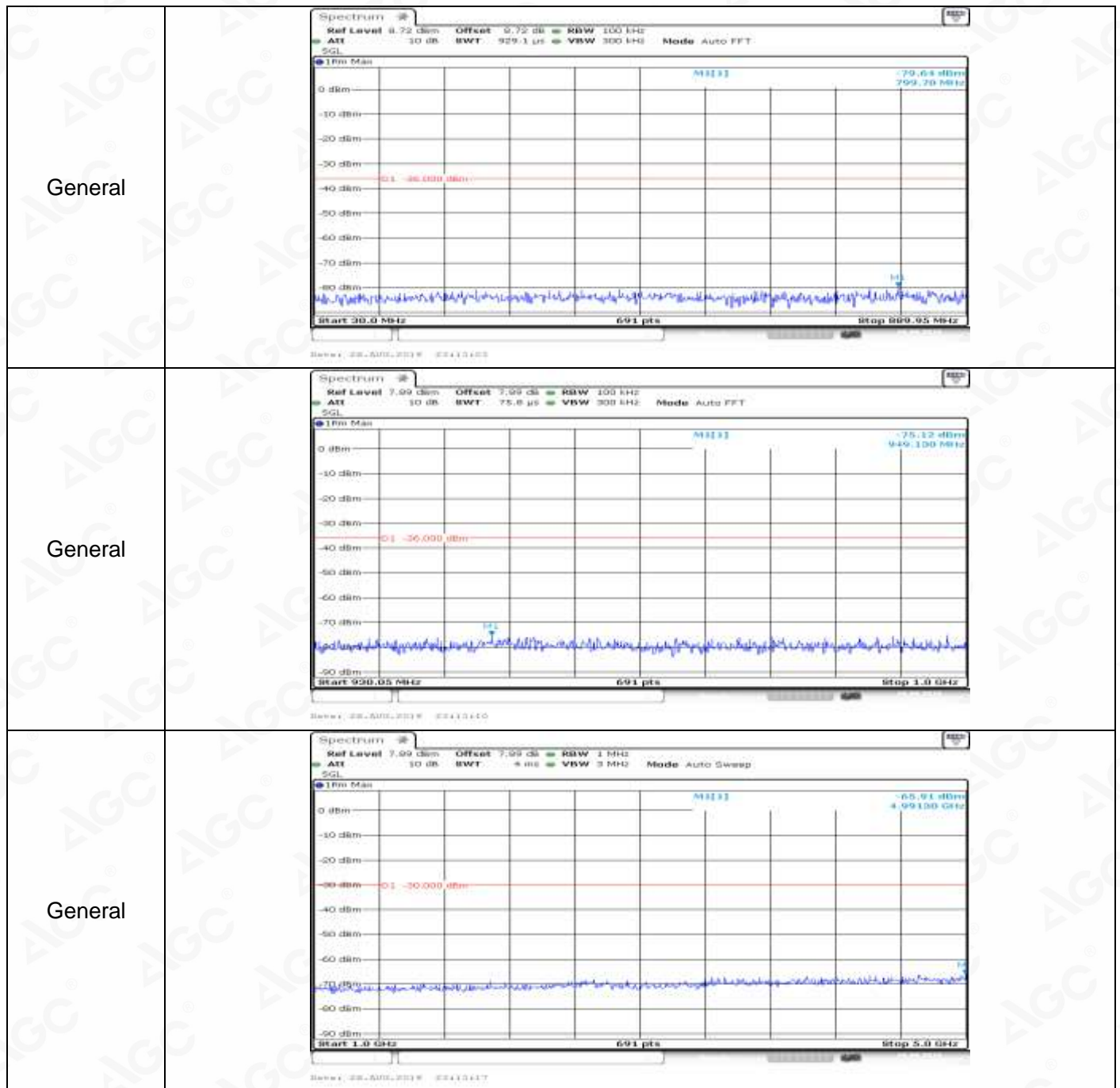


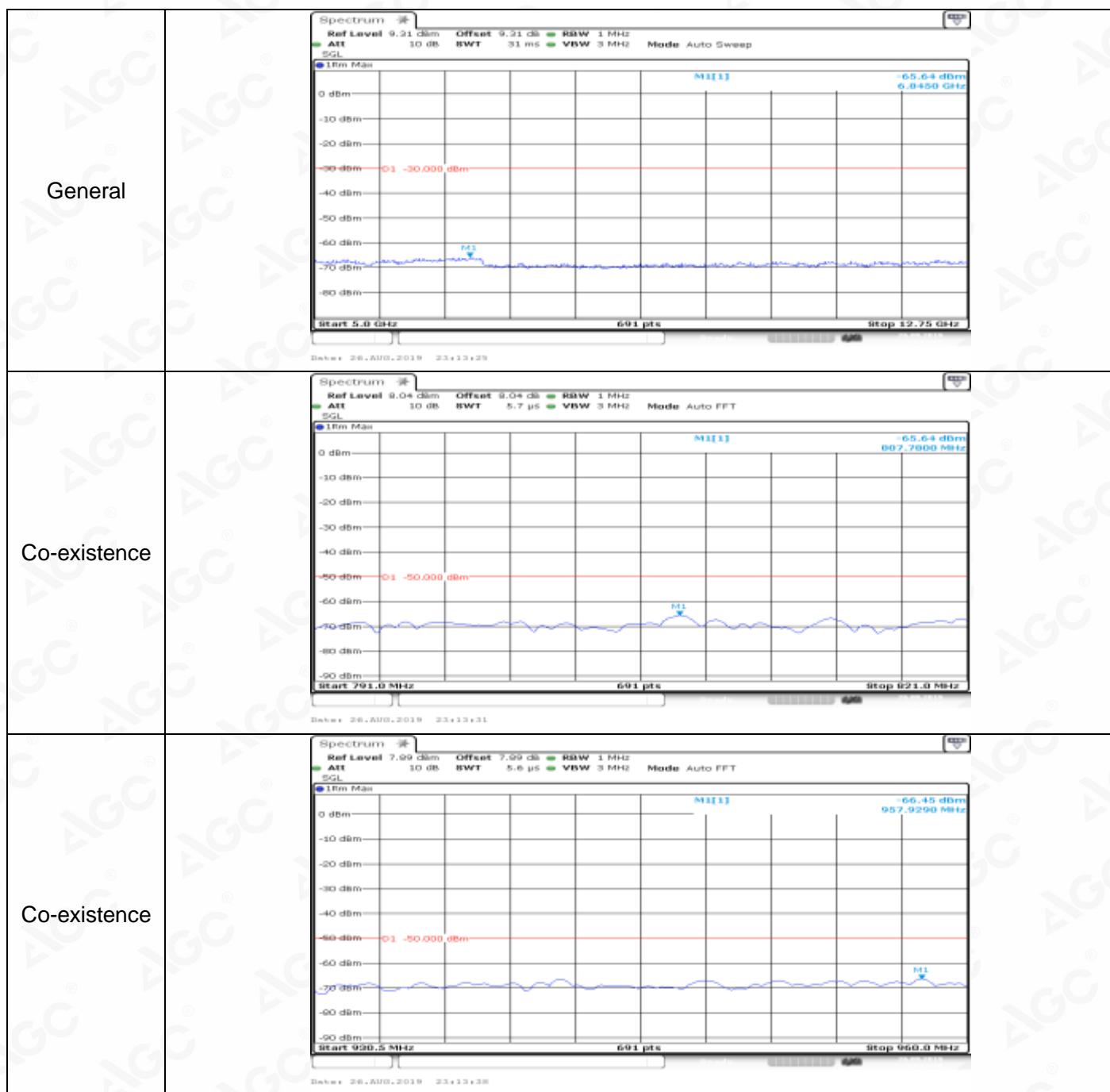



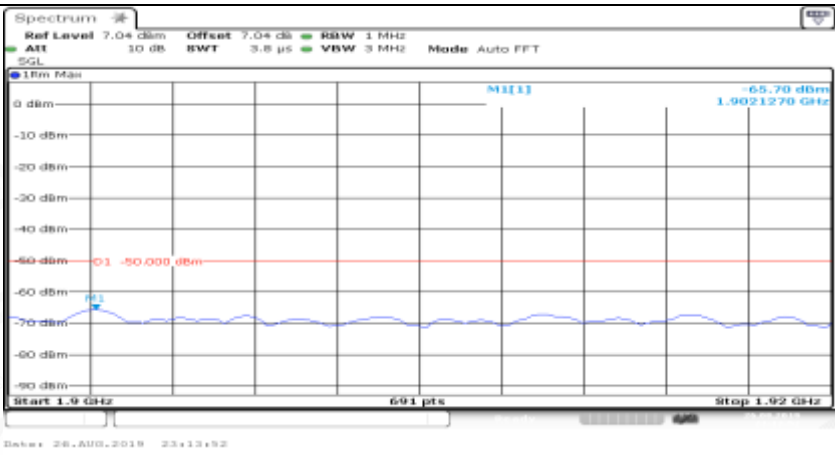
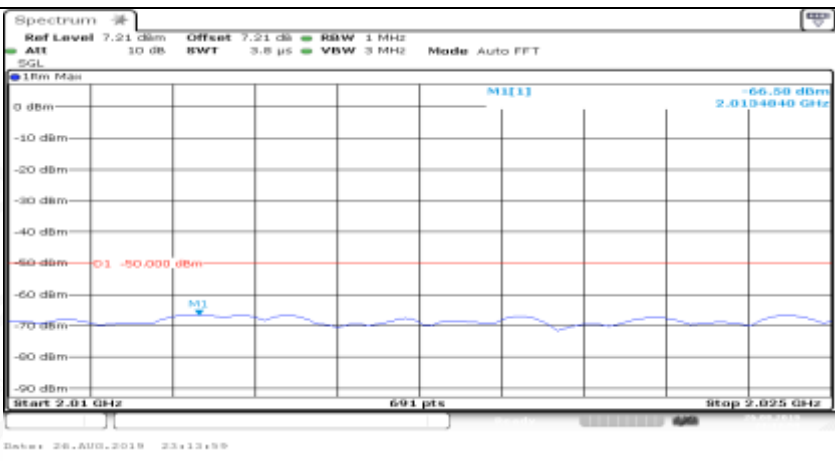
Co-existence	
Additional	NA

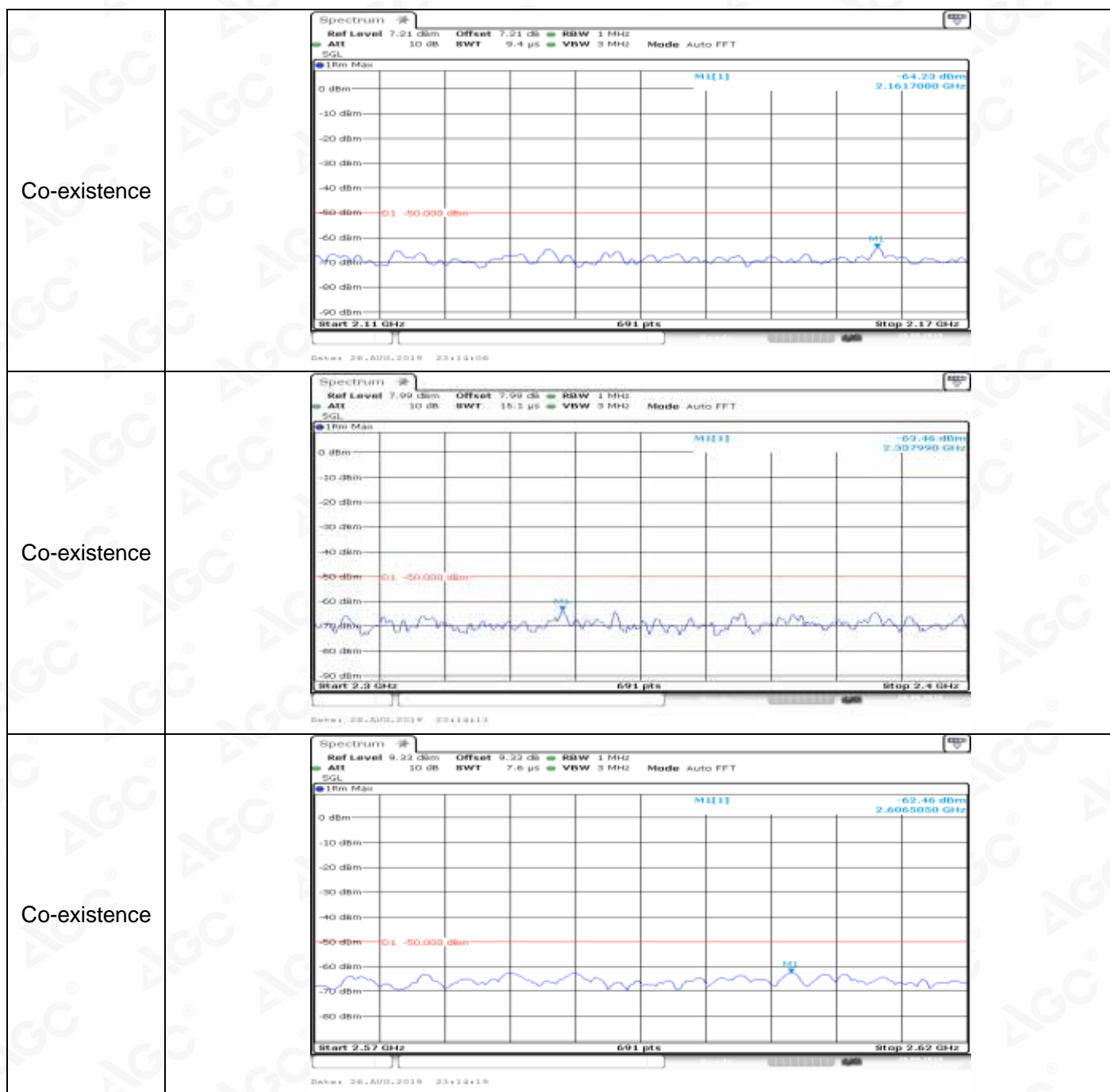
Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#0

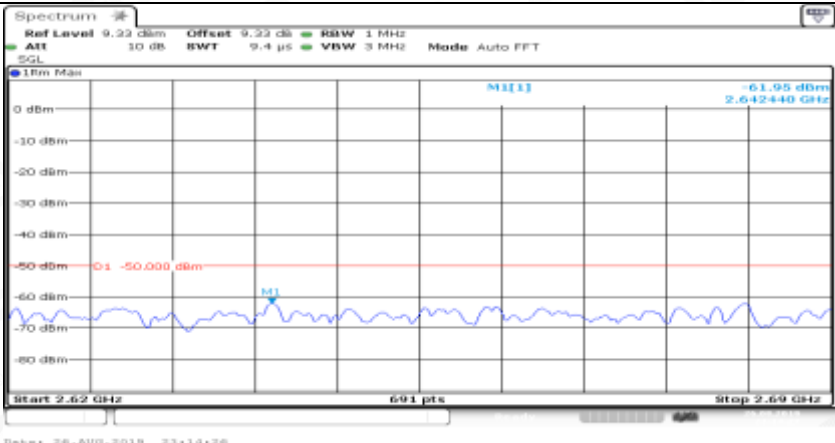
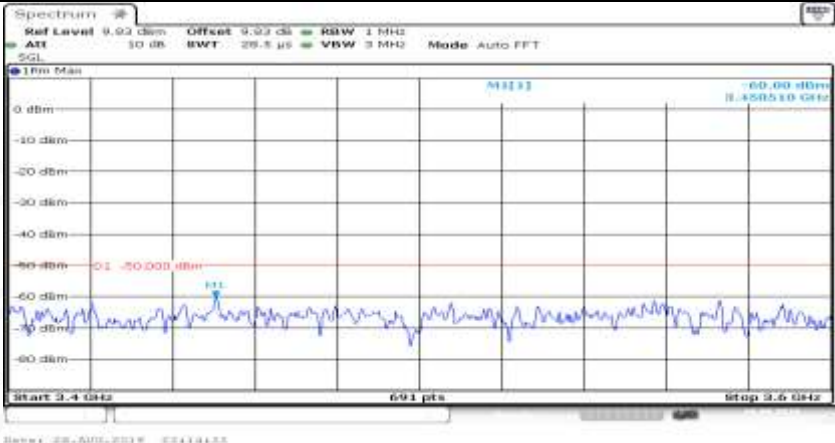
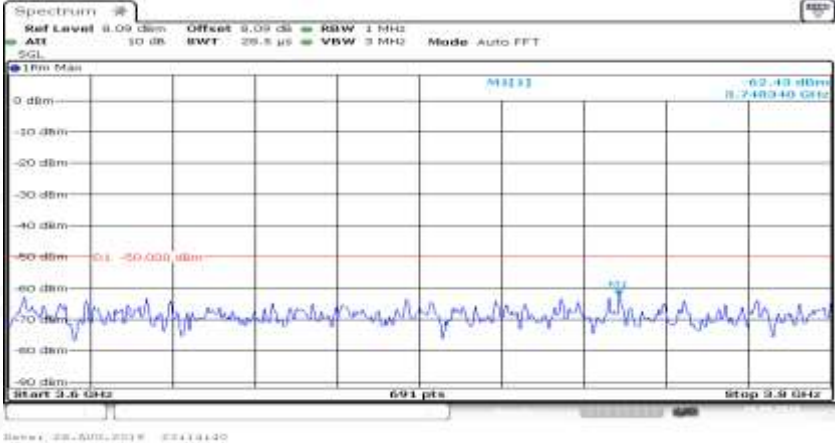
General	
General	



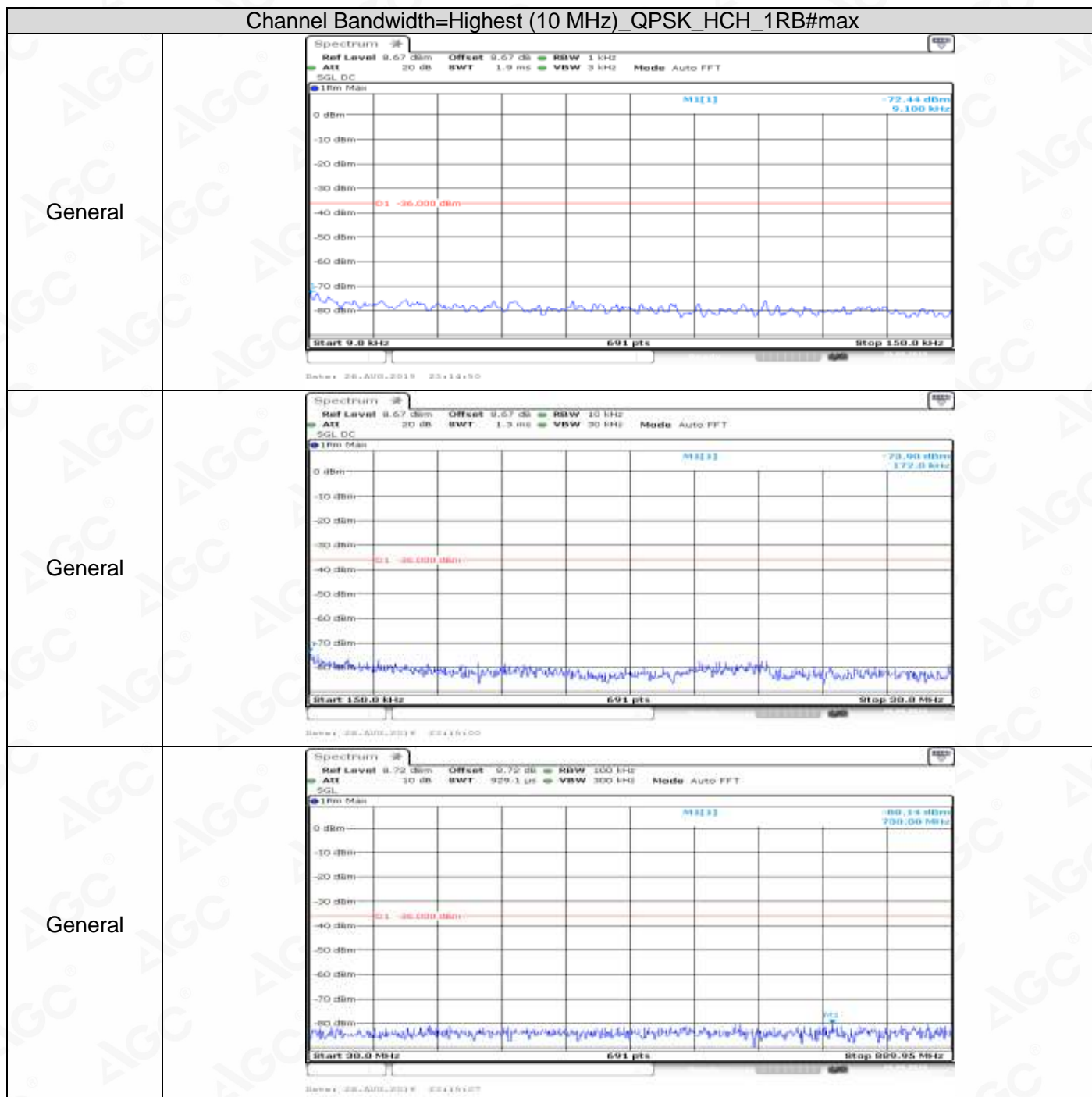


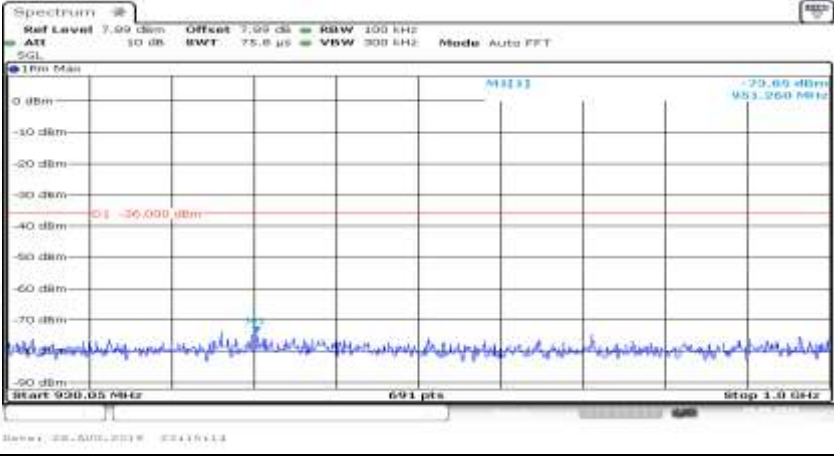
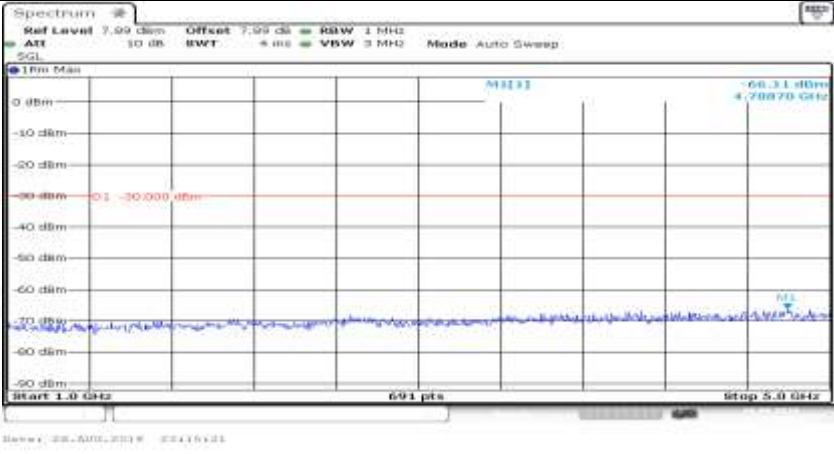
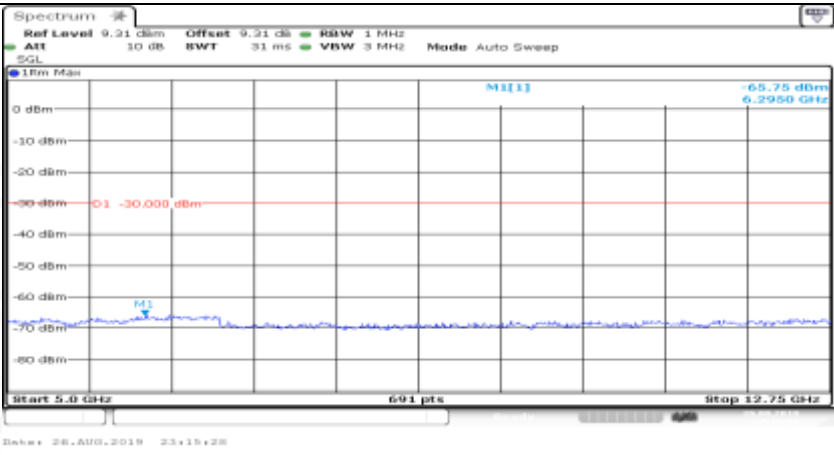
Co-existence	
Co-existence	
Co-existence	

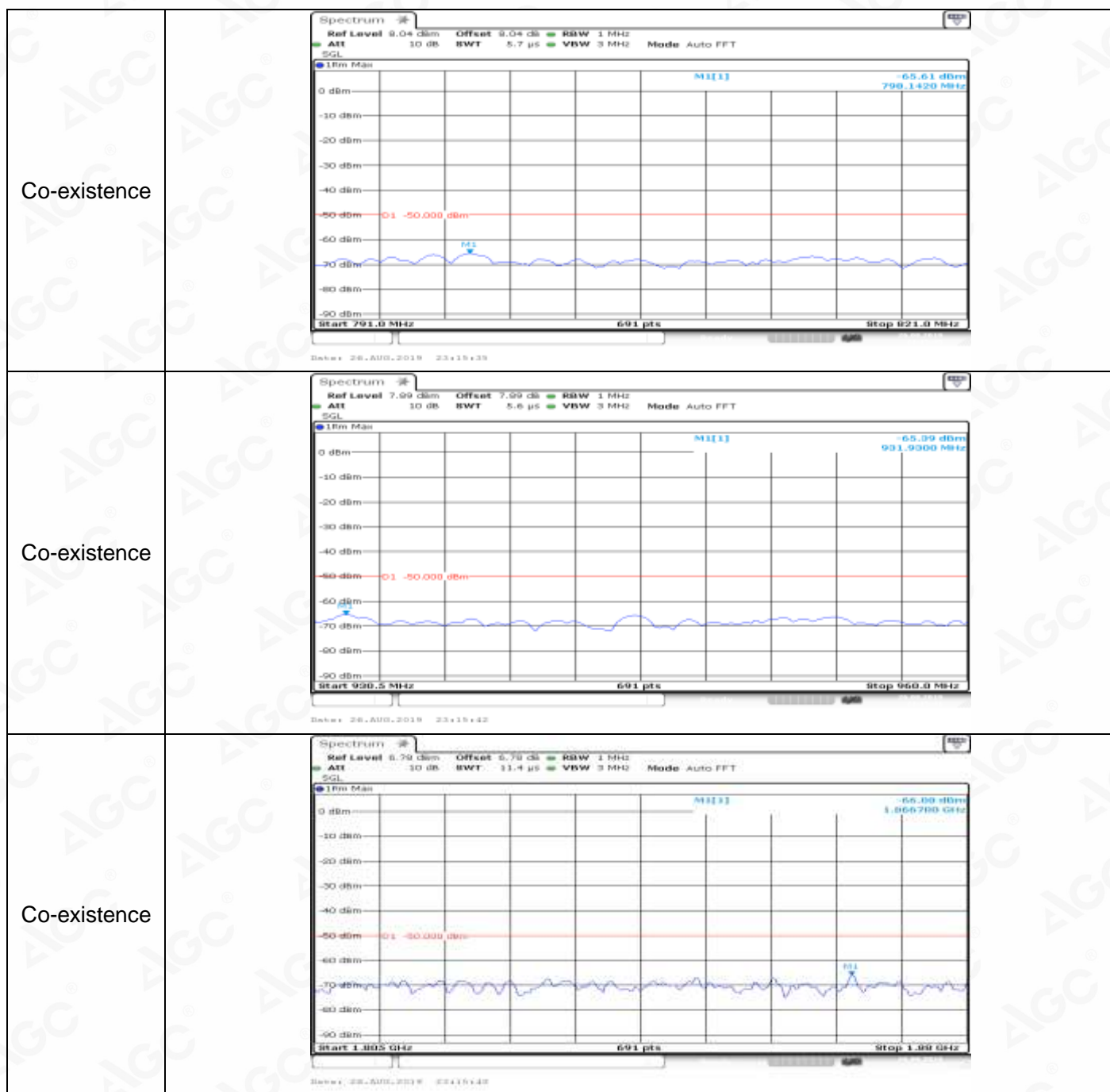


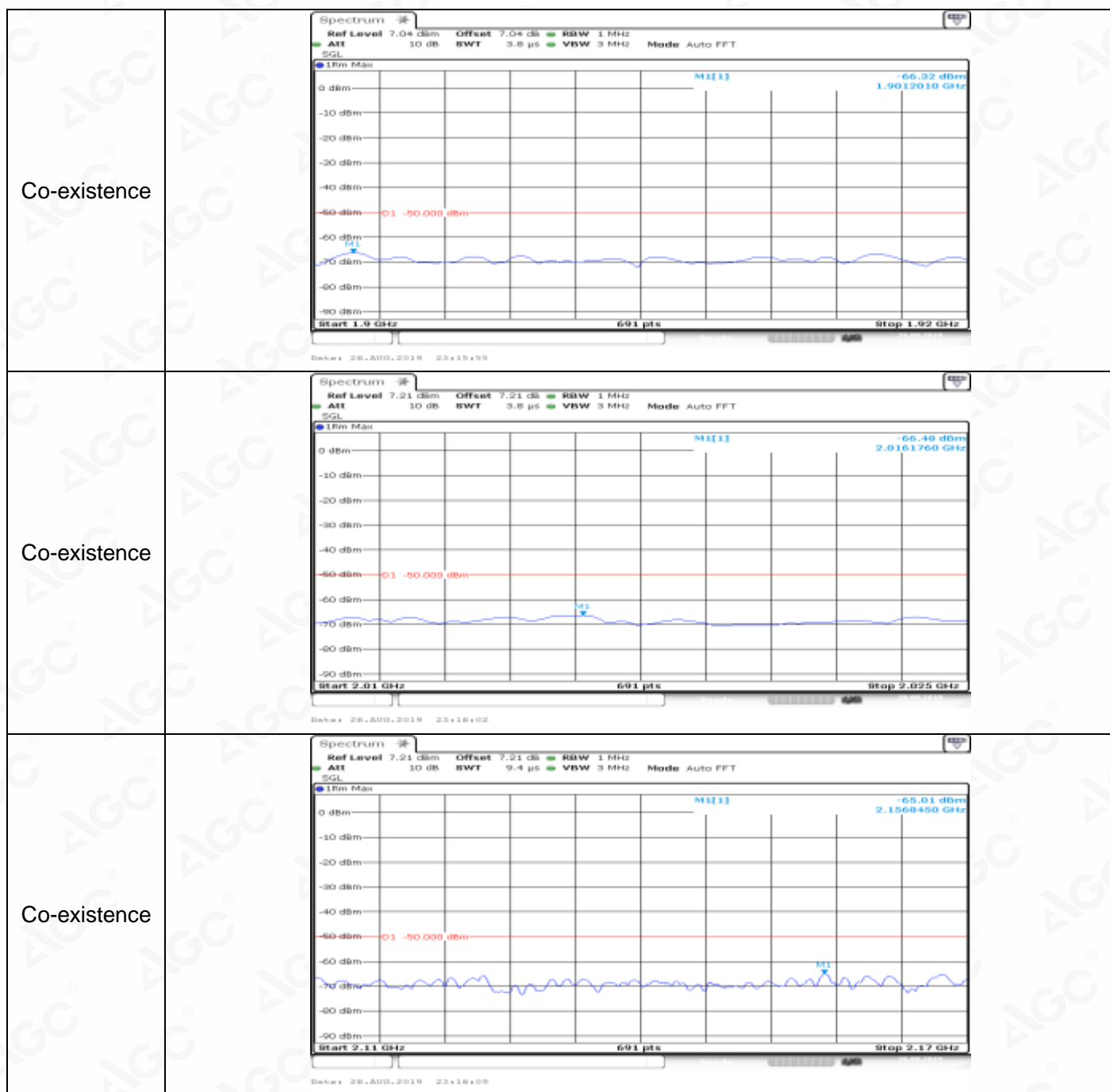
Co-existence	
Co-existence	
Co-existence	
Additional	NA

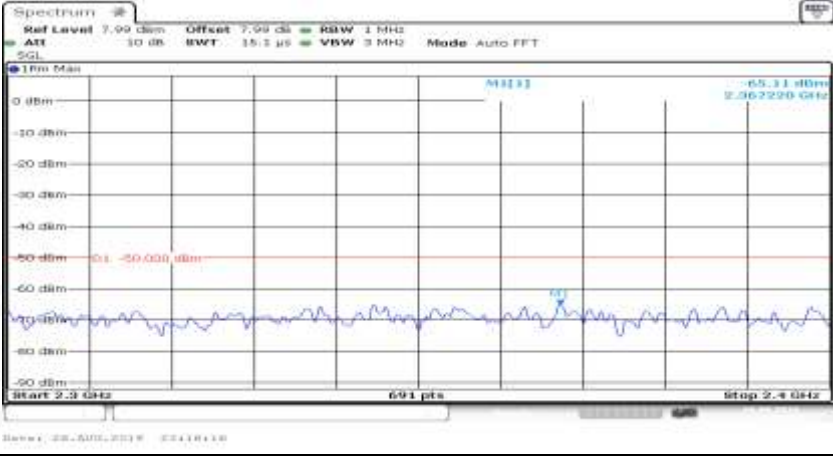
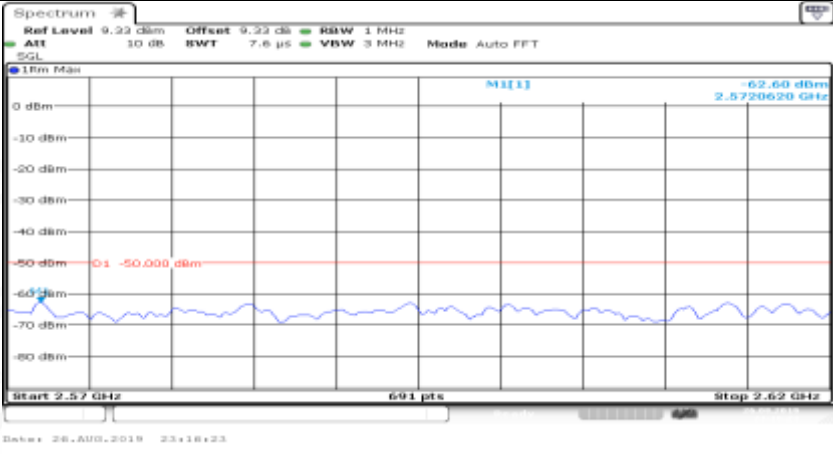
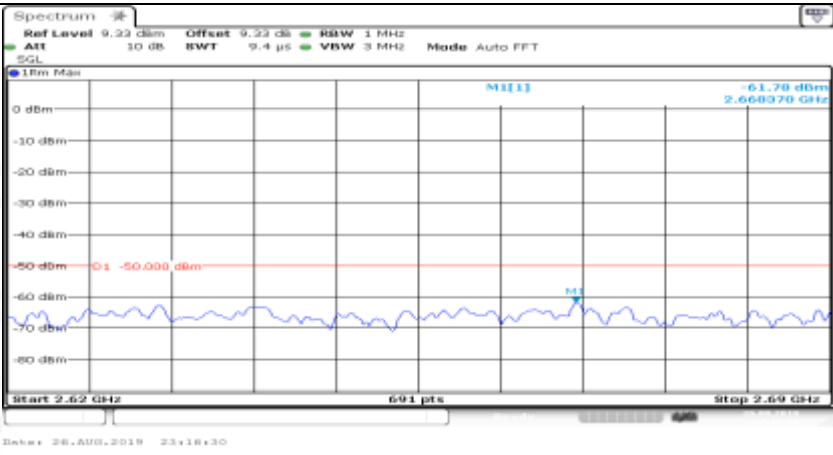
Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#max



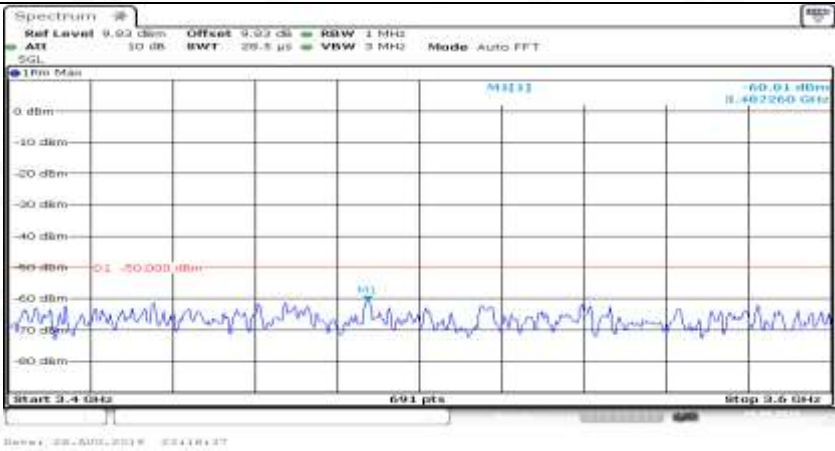
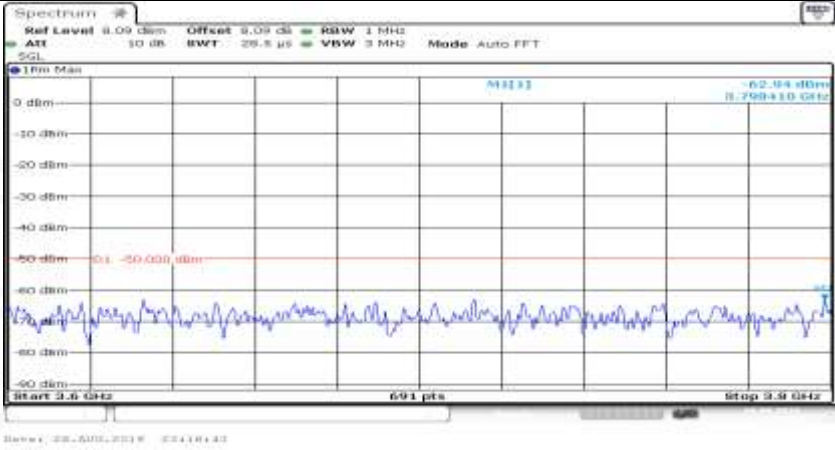
General	
General	
General	



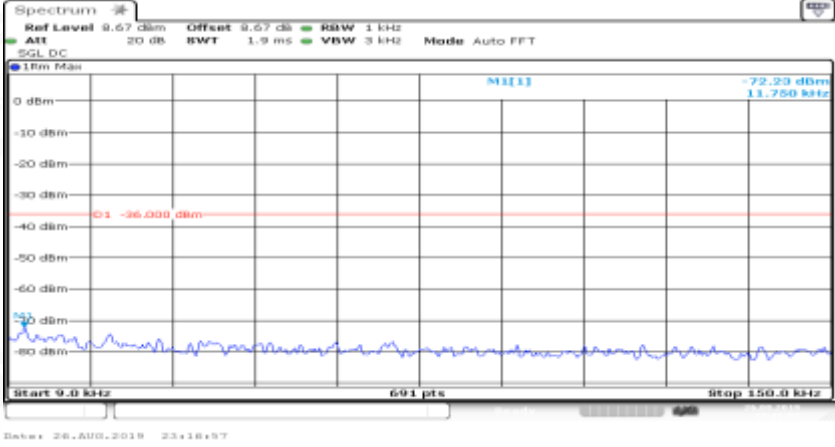


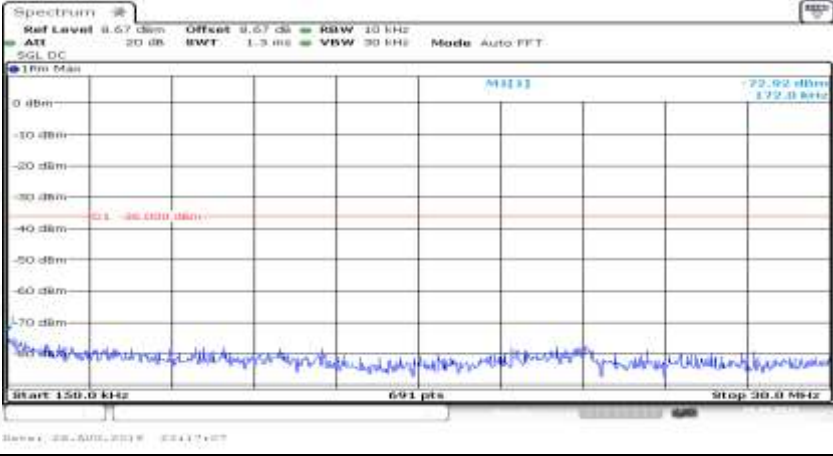
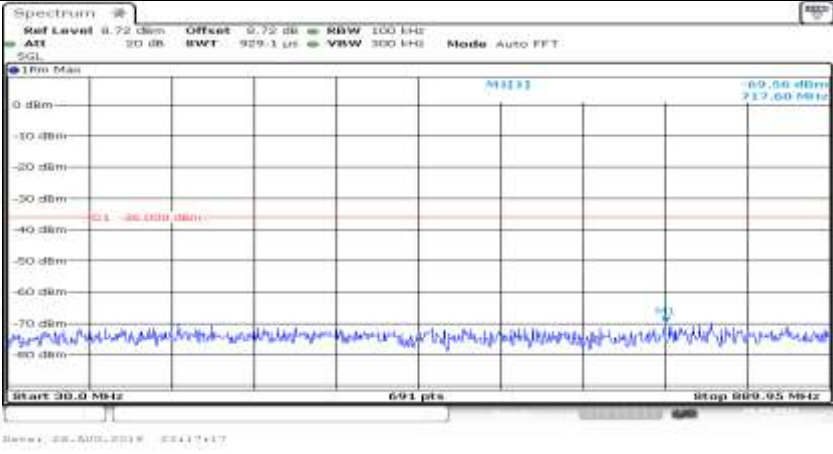
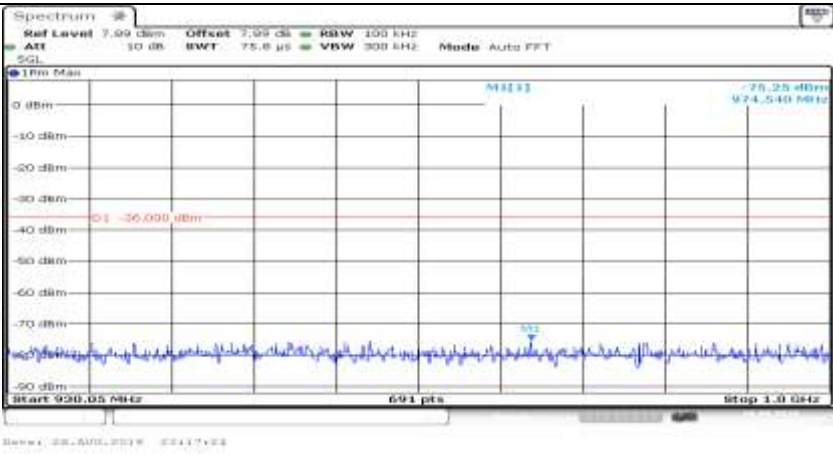
Co-existence	
Co-existence	
Co-existence	



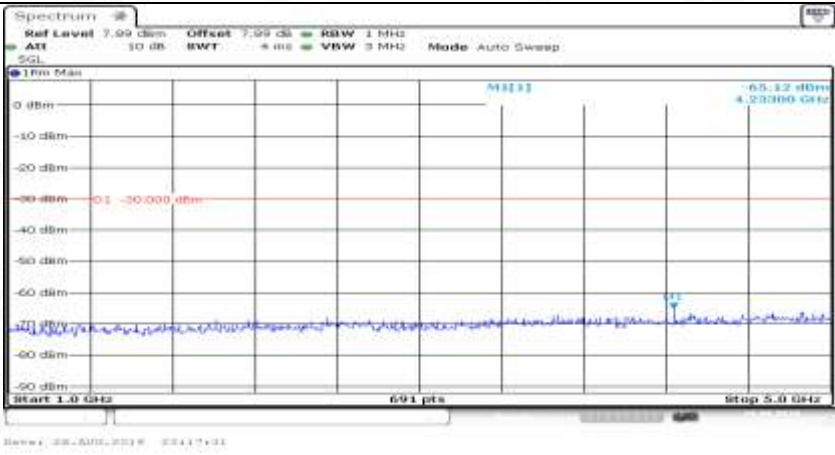
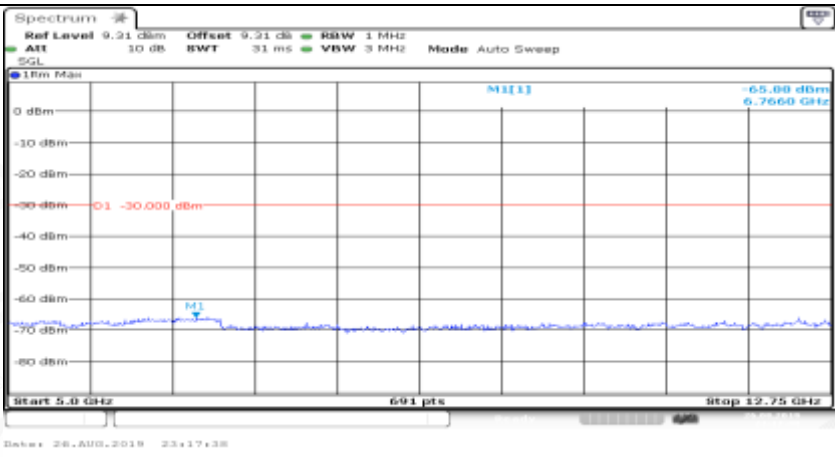
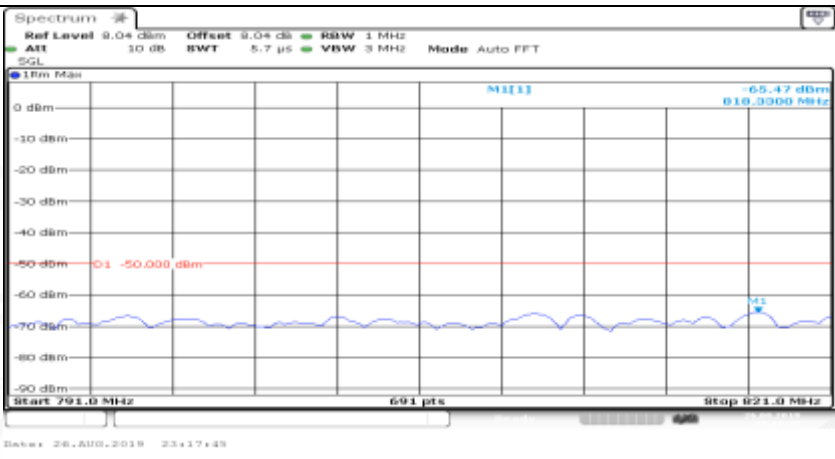
Co-existence	
Co-existence	
Additional	NA

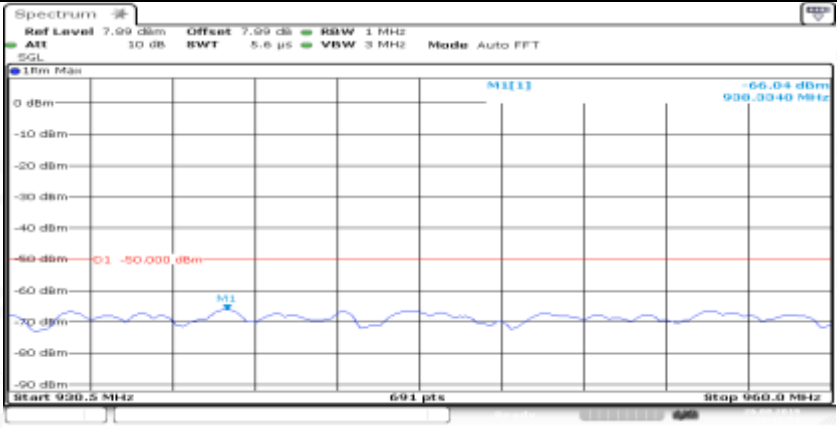
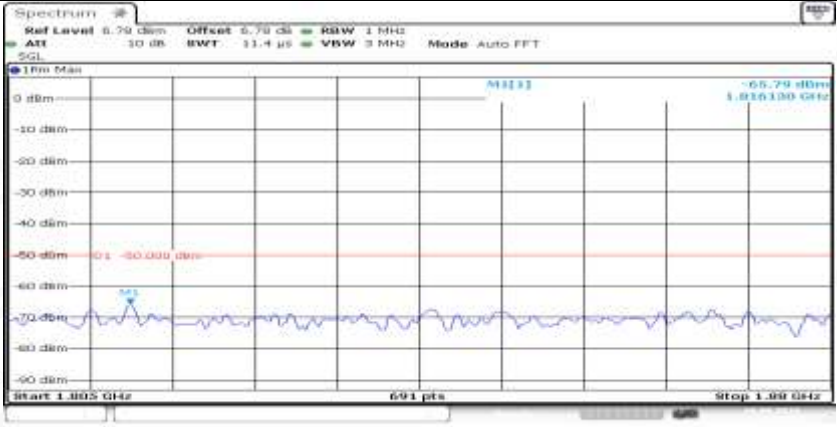
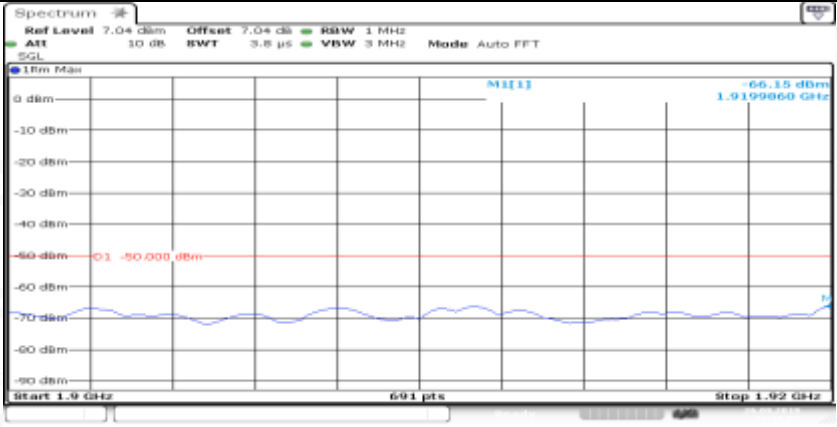
Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_FullIRB#0

General	
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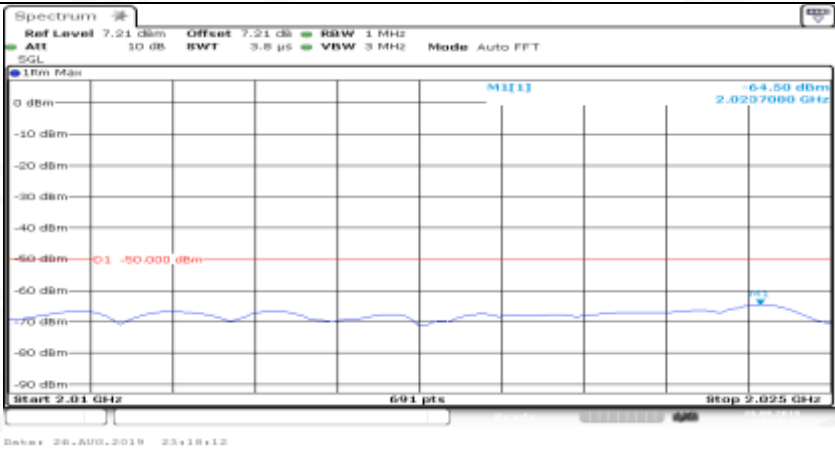


General	
General	
General	

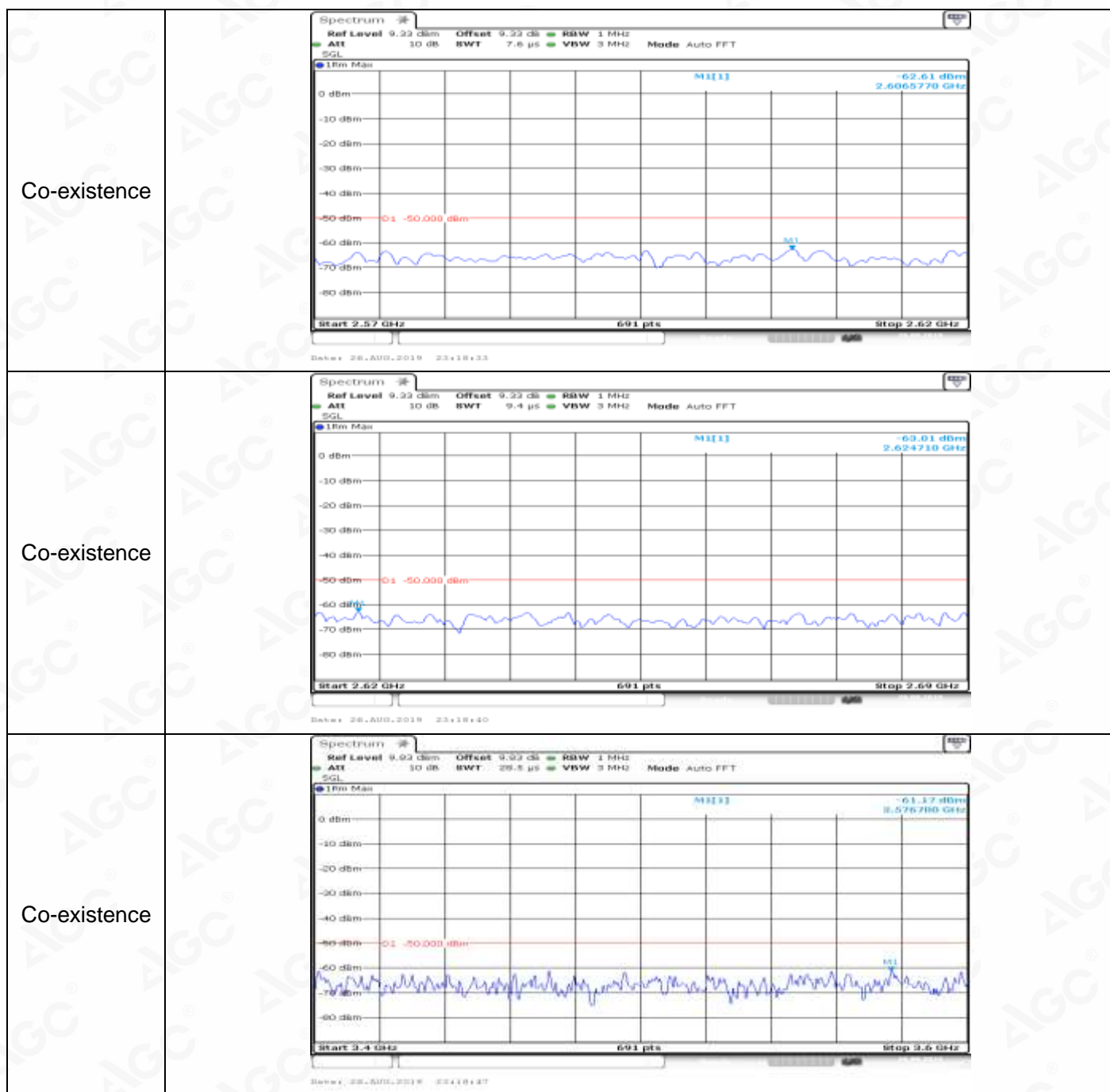


General	
General	
Co-existence	

Co-existence	 <p>Ref Level 7.99 dBm Offset 7.99 dB RBW 1 MHz ATT 10 dB BW 5.6 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -66.04 dBm 938.3340 MHz</p> <p>Start 938.5 MHz 691 pts Stop 960.0 MHz</p> <p>Date: 26.AUG.2019 23:17:52</p>
Co-existence	 <p>Ref Level 6.79 dBm Offset 6.79 dB RBW 1 MHz ATT 10 dB BW 11.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -66.79 dBm 1.816130 GHz</p> <p>Start 1.805 GHz 691 pts Stop 1.830 GHz</p> <p>Date: 26.AUG.2019 23:17:52</p>
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -66.15 dBm 1.9199860 GHz</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 26.AUG.2019 23:18:05</p>



Co-existence	
Co-existence	
Co-existence	



Co-existence	
Additional	NA

6. Receiver Spurious Emissions

Test Result

NTNV

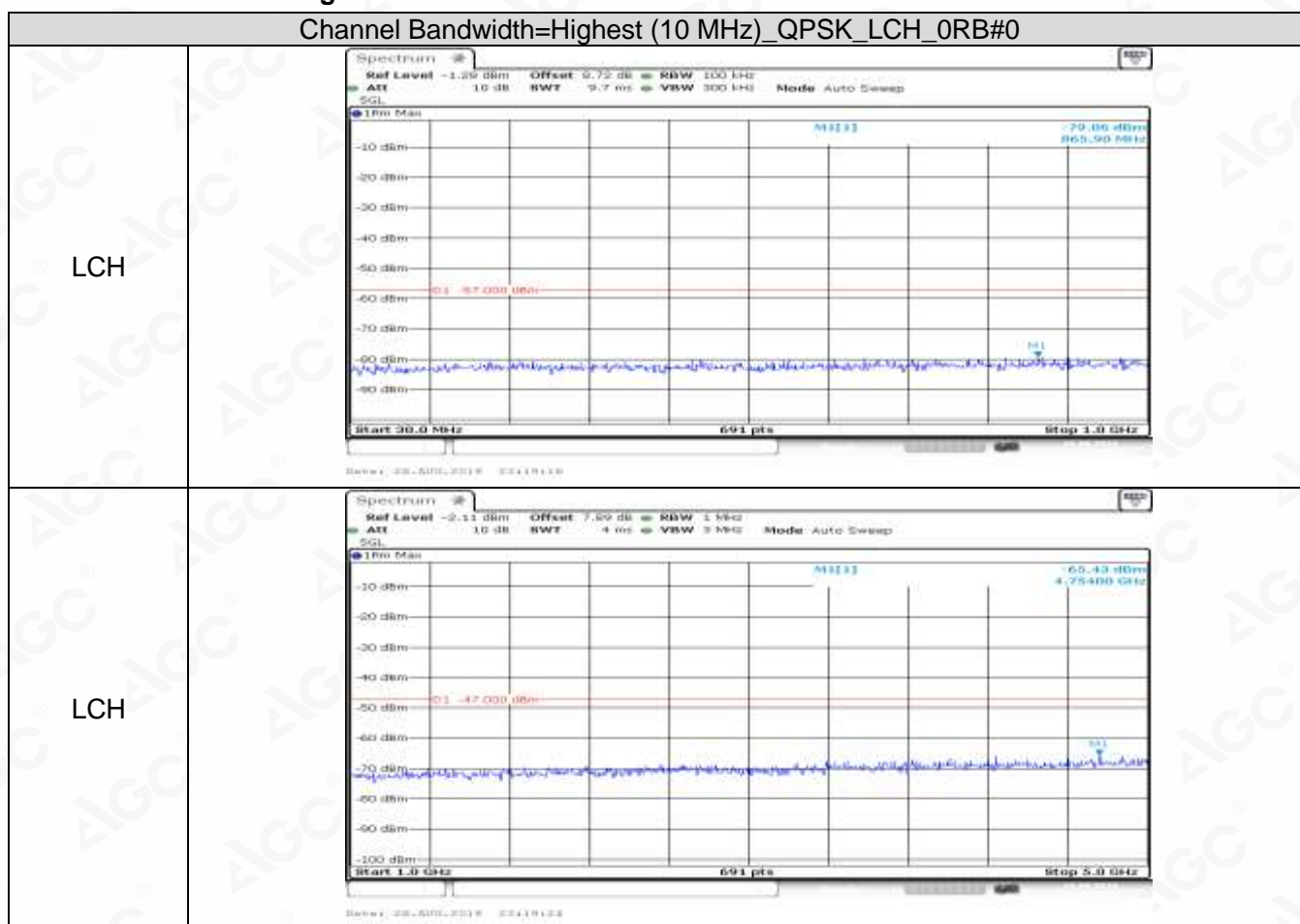
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	10 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest



Attestation of Global Compliance

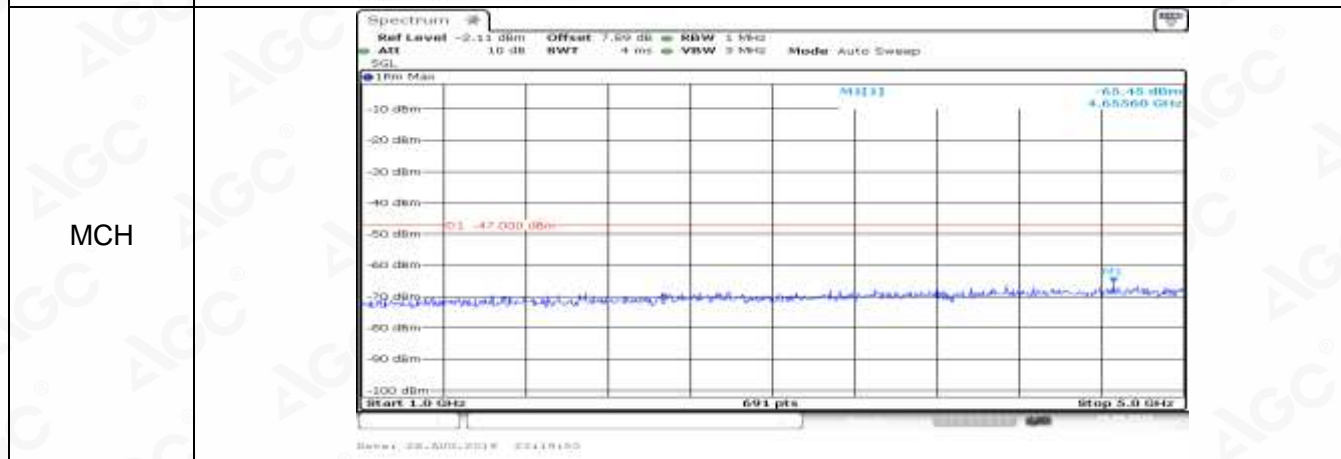
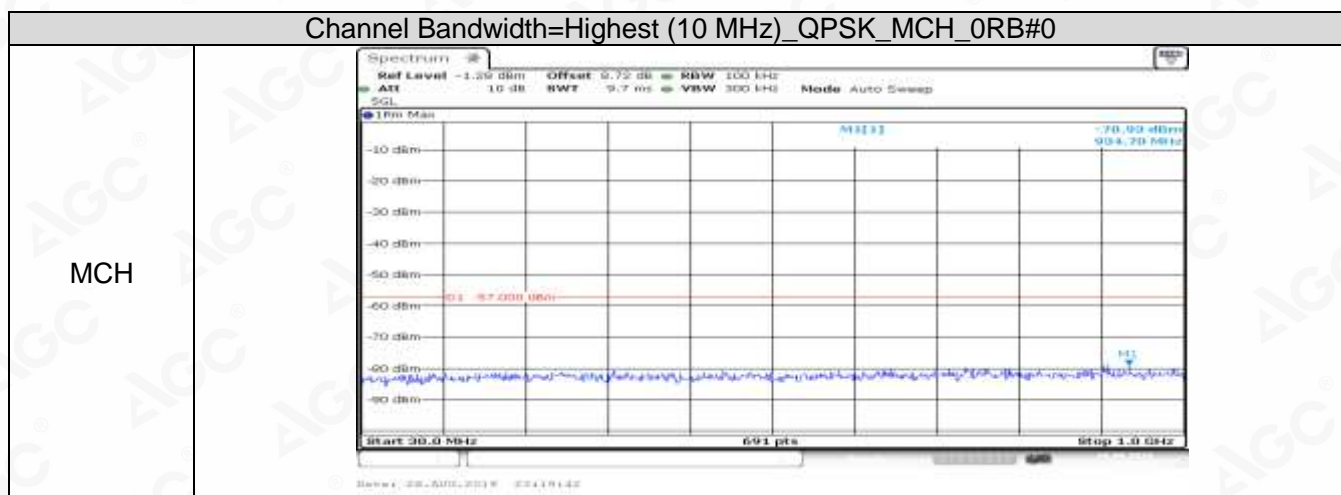
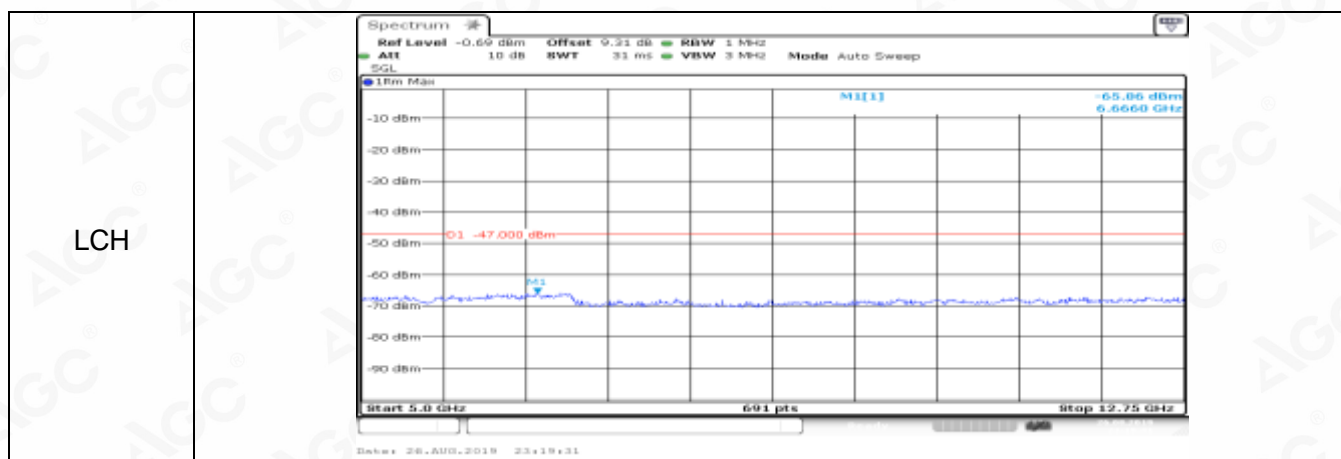
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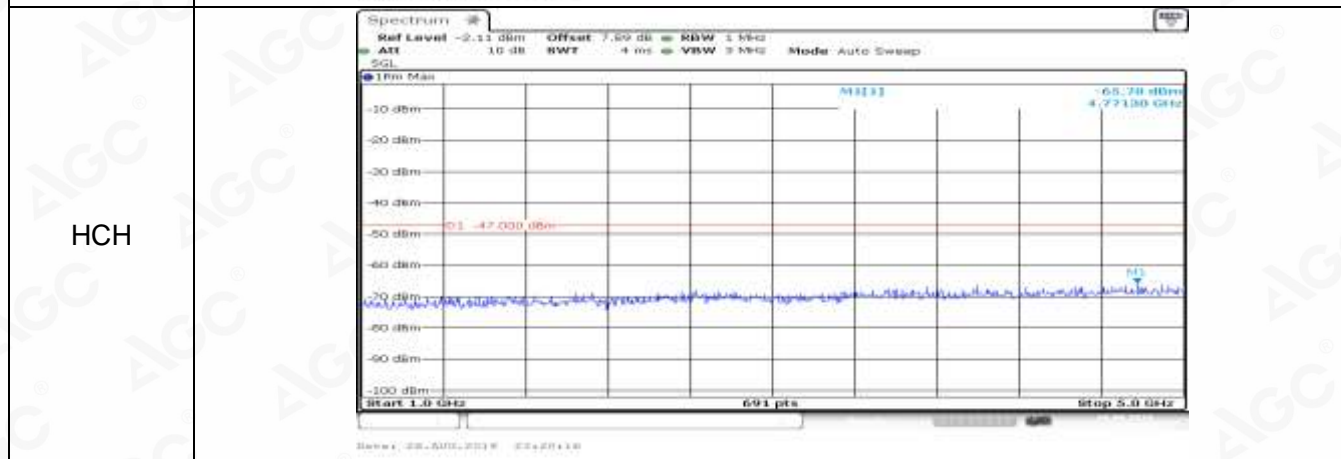
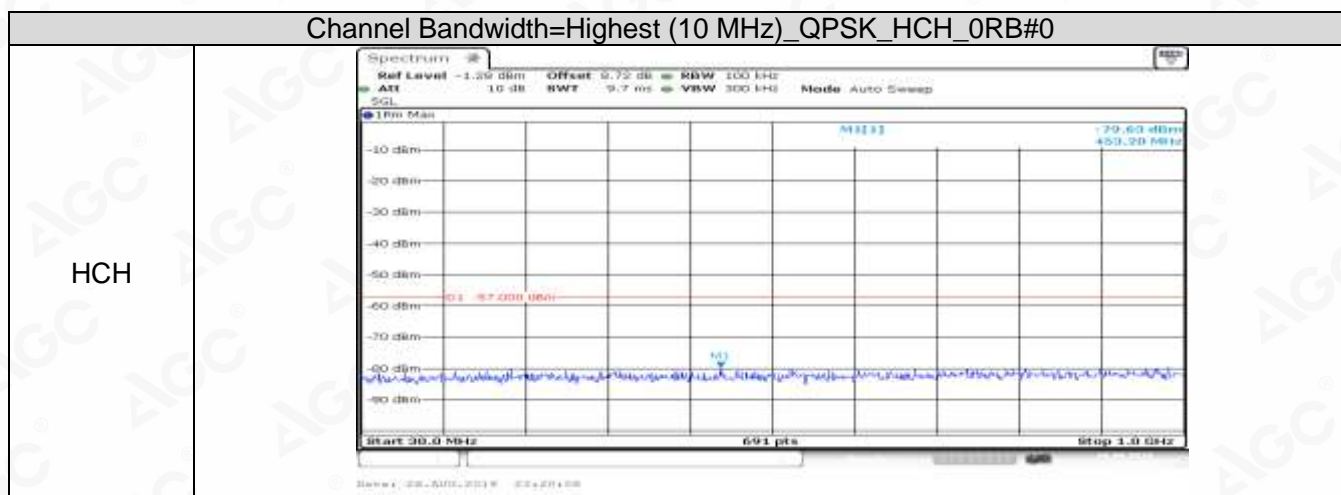
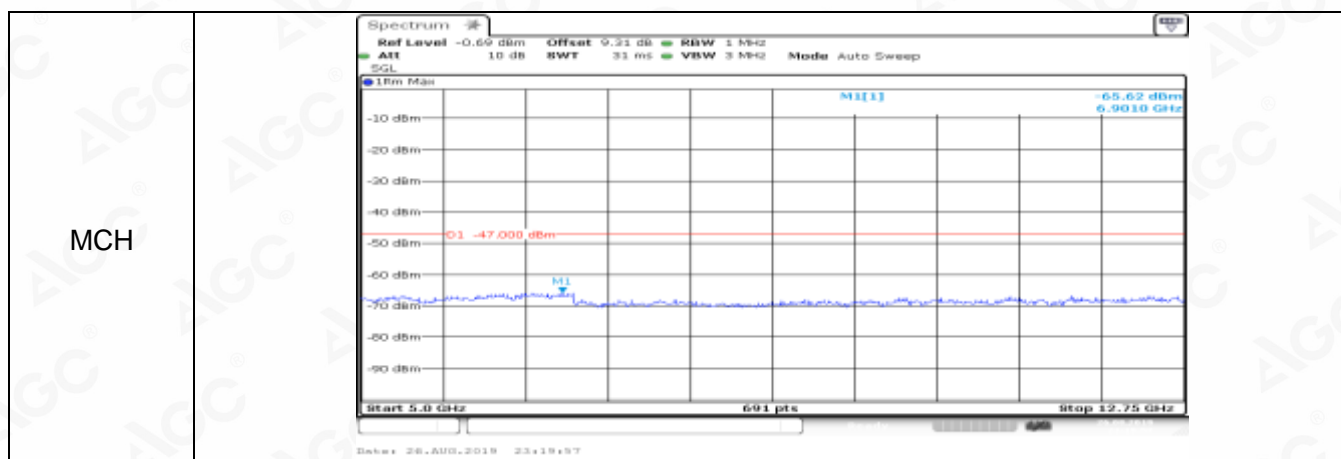
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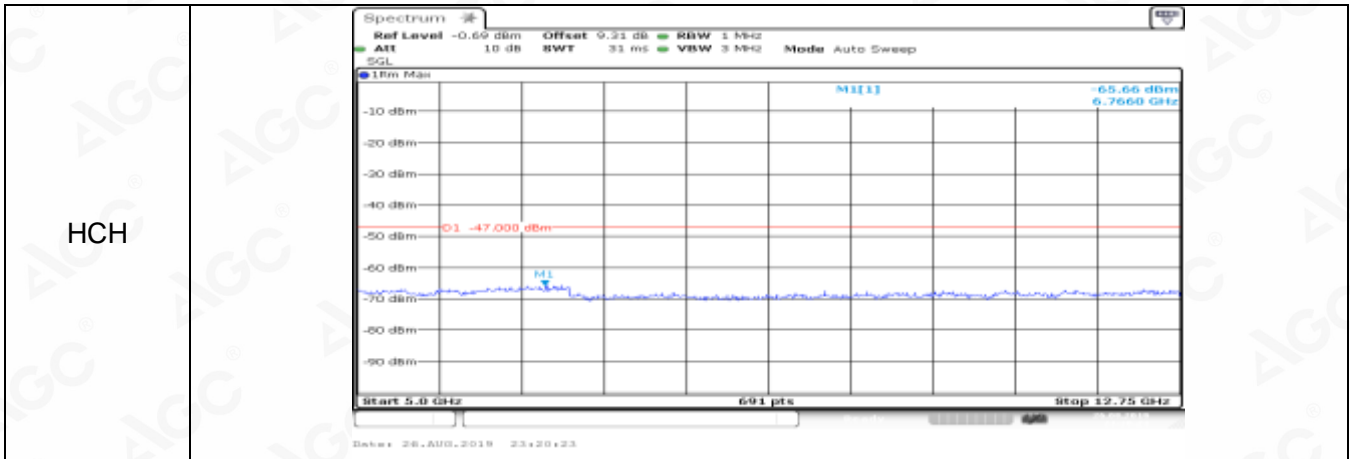
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7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				



8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				



Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 10MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC			
Test Frequencies		Mid range			
Test Channel Bandwidths		Lowest, 1.4MHz, Highest 10MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration				Downlink Configuration
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK
5MHz	QPSK	5MHz	QPSK	10MHz	QPSK
10MHz	QPSK	10MHz	QPSK	20MHz	QPSK
Verdict	Pass				



9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				



10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band	Band 8					
Test Environment	NC					
Test Frequencies	Mid range					
Test Channel Bandwidths	Lowest, 1.4MHz, Highest 10MHz					
Test Parameters for Channel Bandwidths						
	Downlink Configuration				Downlink Configuration	
Ch BW	Mod' n	Ch BW	Mod' n	Ch BW	Mod' n	Ch BW
1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz	QPSK	1.4MHz
5MHz	QPSK	5MHz	QPSK	5MHz	QPSK	5MHz
10MHz	QPSK	10MHz	QPSK	10MHz	QPSK	10MHz
Verdict	Pass					



11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

	Test Band			Band 8			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	Pass	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	Pass	≥ 95 %
	Verdict	Pass					



12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-69.88	-70.17	-70.55
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-67.05	-67.41	-67.86
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-67.25	-67.76	-68.29



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Appendix E for Band 20

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	23.84	Pass
					max	23.78	Pass
				Partial	0	23.82	Pass
					max	23.89	Pass
			Mid range	1	0	23.72	Pass
					max	23.68	Pass
				Partial	0	23.80	Pass
					max	23.81	Pass
			High range	1	0	23.65	Pass
					max	23.62	Pass
				Partial	0	23.67	Pass
					max	23.64	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	23.79	Pass
					max	23.67	Pass
				Partial	0	23.61	Pass
					max	23.62	Pass
			Mid range	1	0	23.75	Pass
					max	23.64	Pass
				Partial	0	23.71	Pass
					max	23.57	Pass
			High range	1	0	23.57	Pass
					max	23.45	Pass
				Partial	0	23.68	Pass
					max	23.61	Pass

2. Transmitter Minimum Output Power

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Full	0	-48.91	Pass
			Mid range	Full	0	-50.90	Pass
			High range	Full	0	-50.75	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Full	0	-50.34	Pass
			Mid range	Full	0	-50.28	Pass
			High range	Full	0	-50.30	Pass



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3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass



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			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



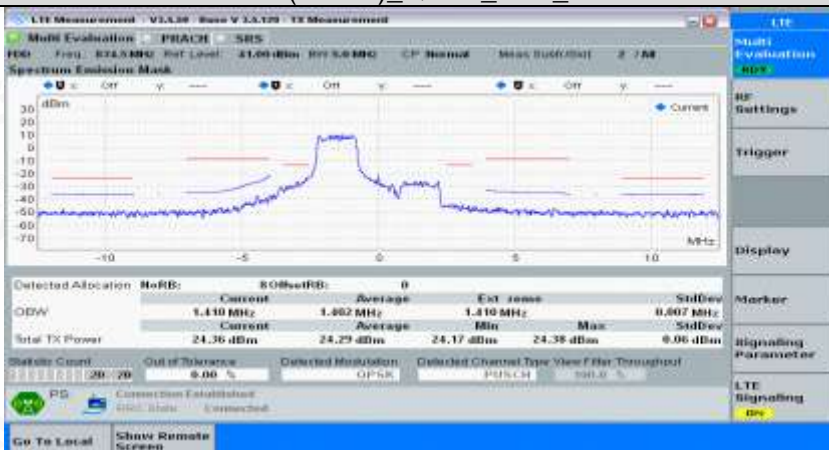
Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

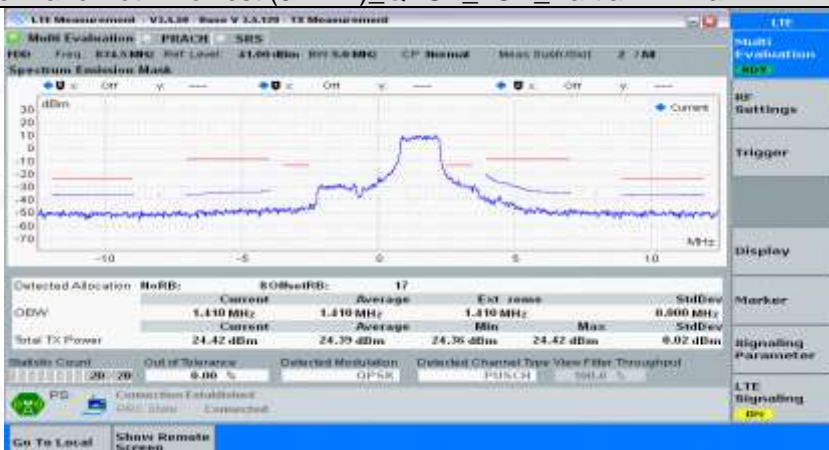
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QPSK



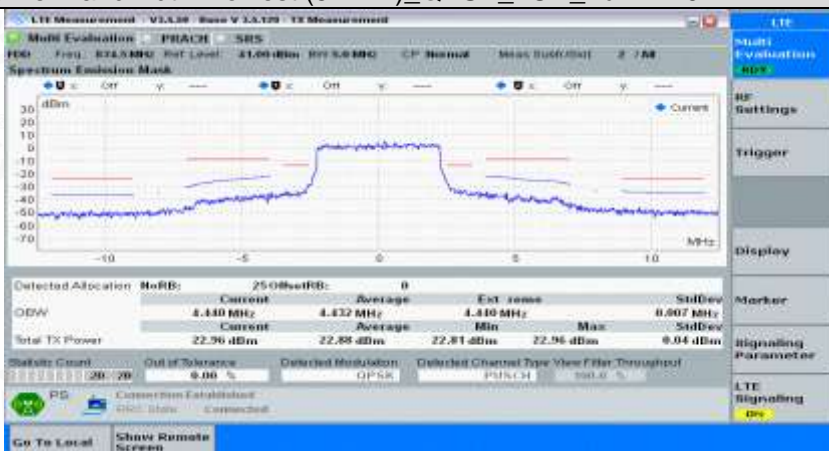
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QPSK

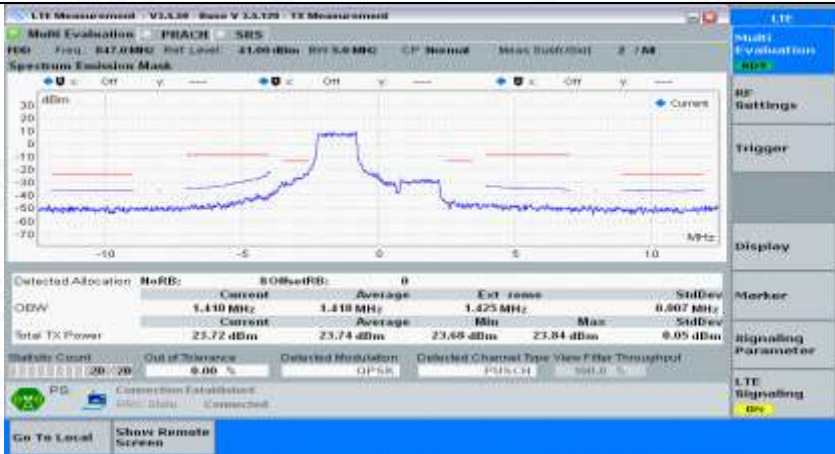
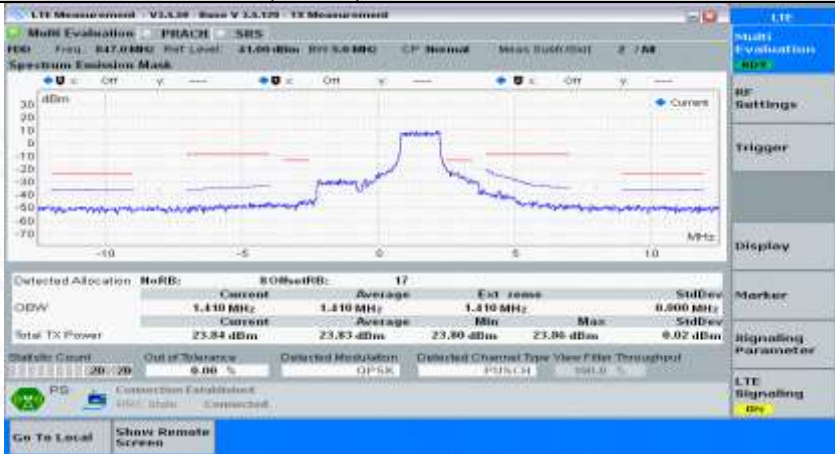
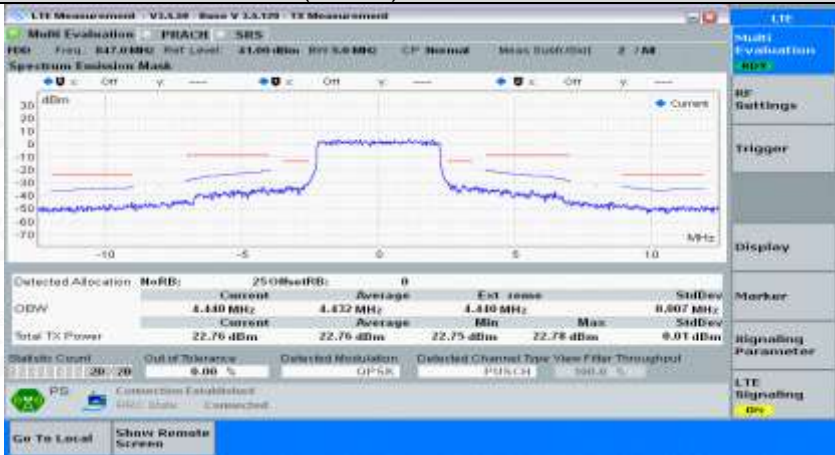


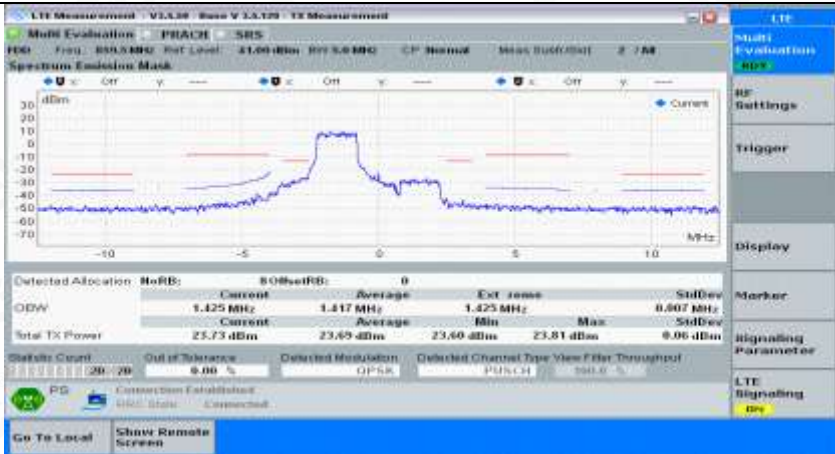
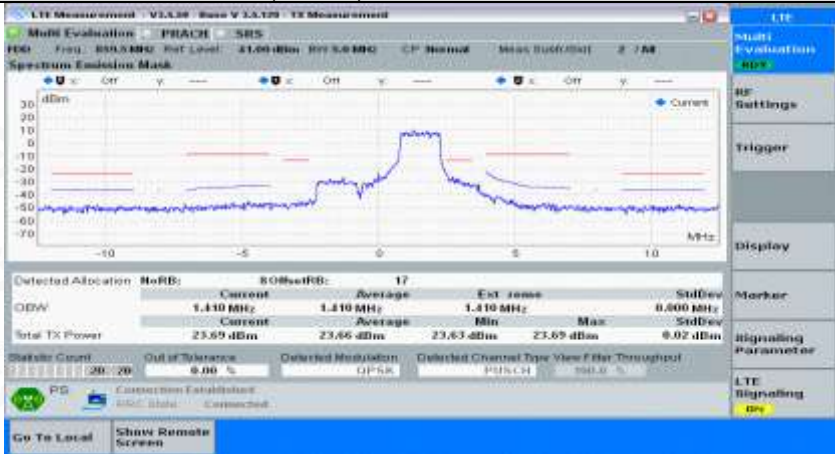
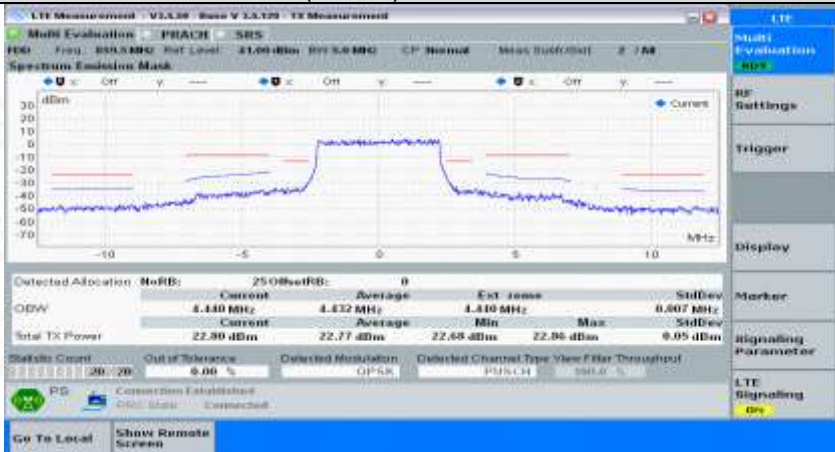
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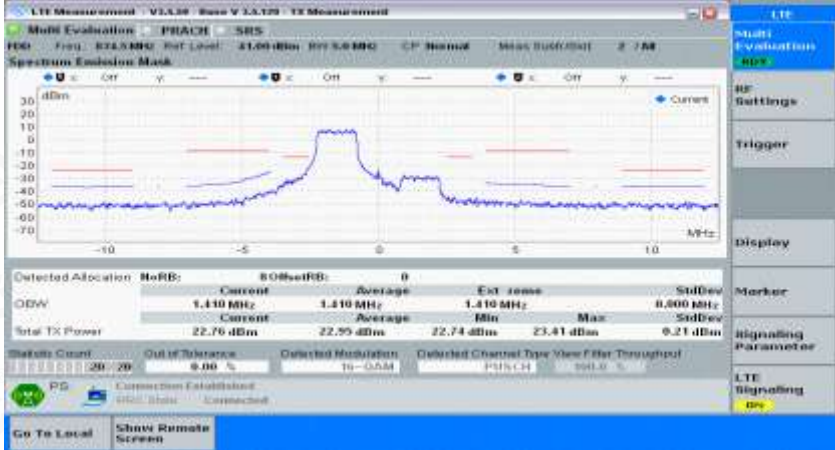
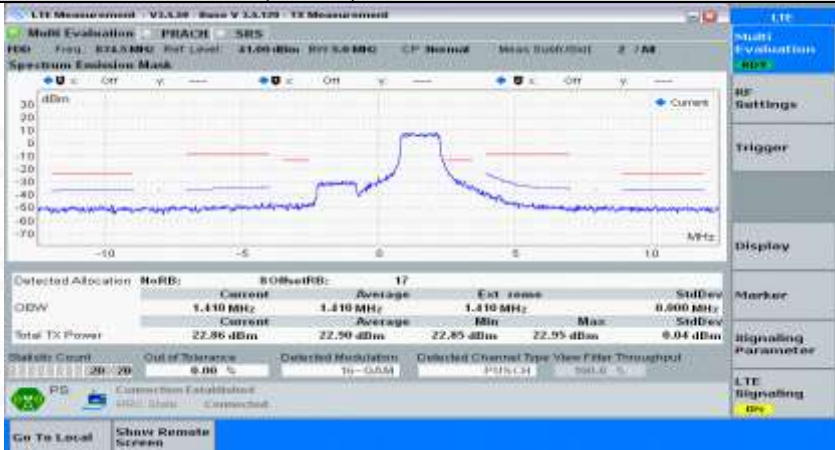
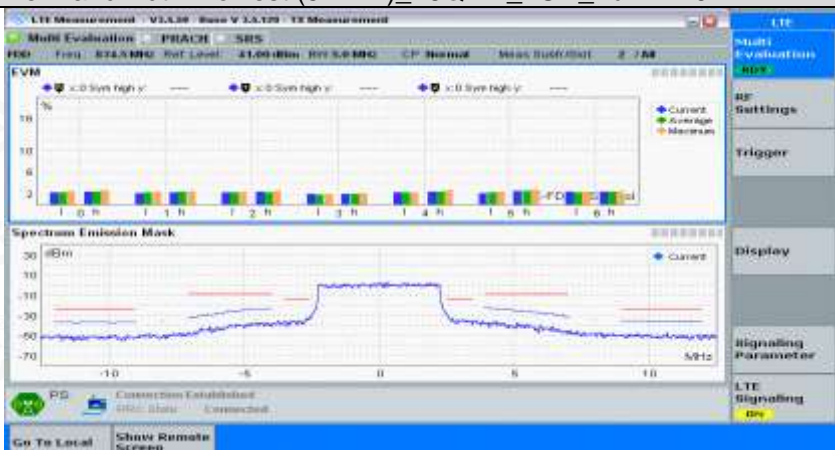
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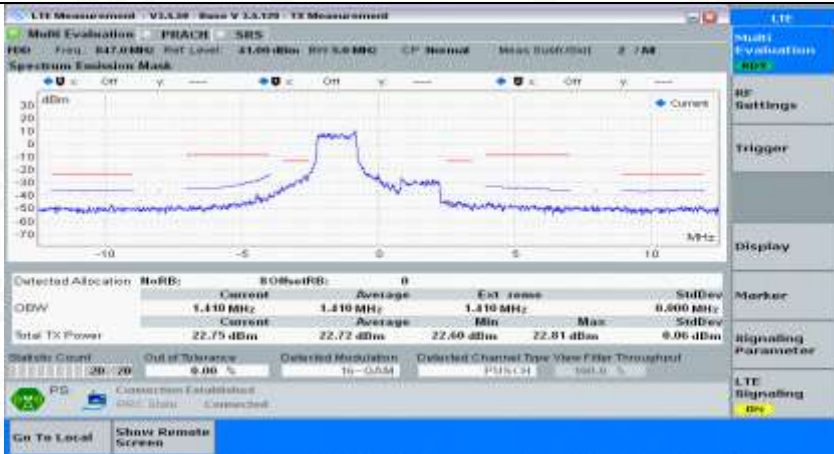
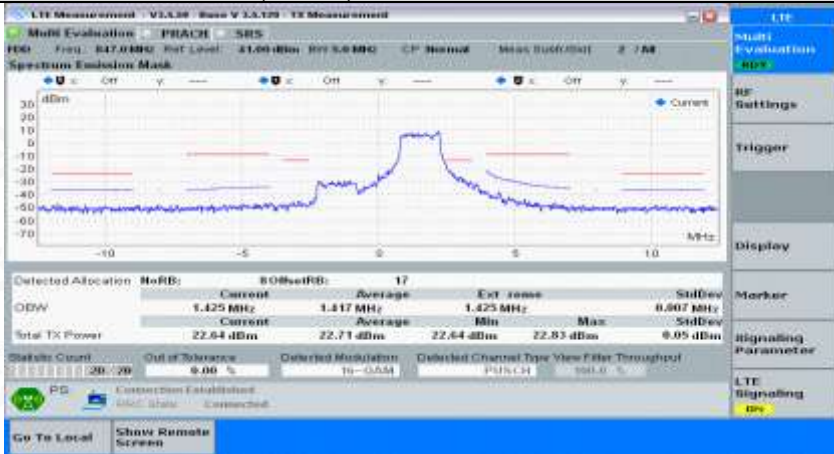
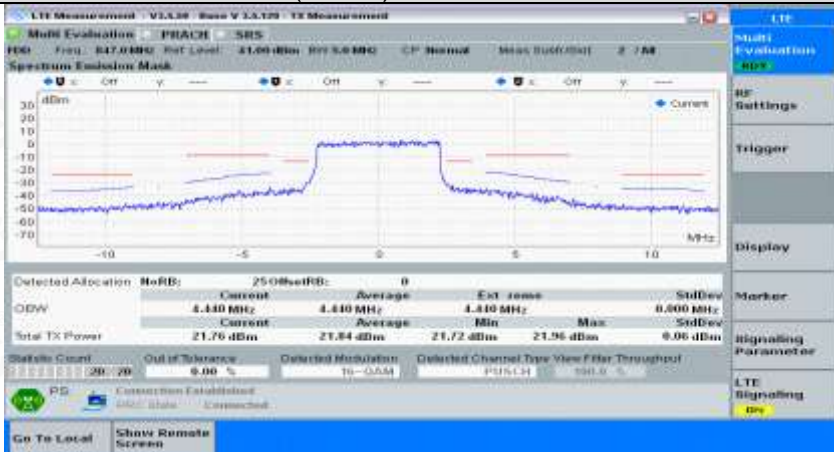


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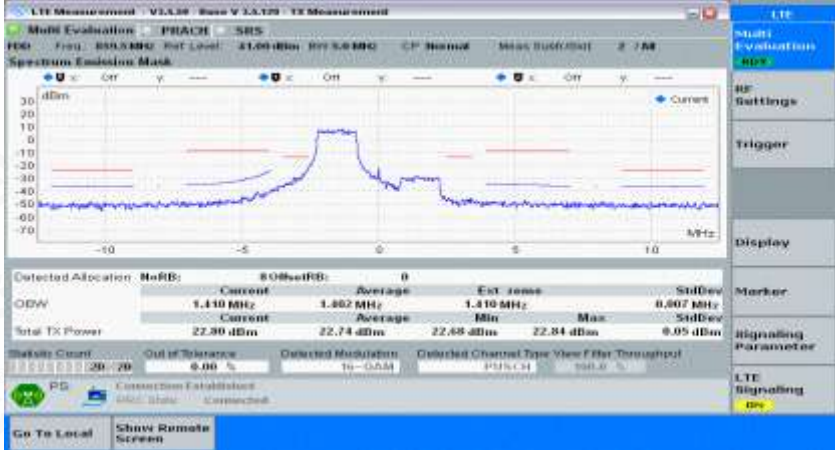
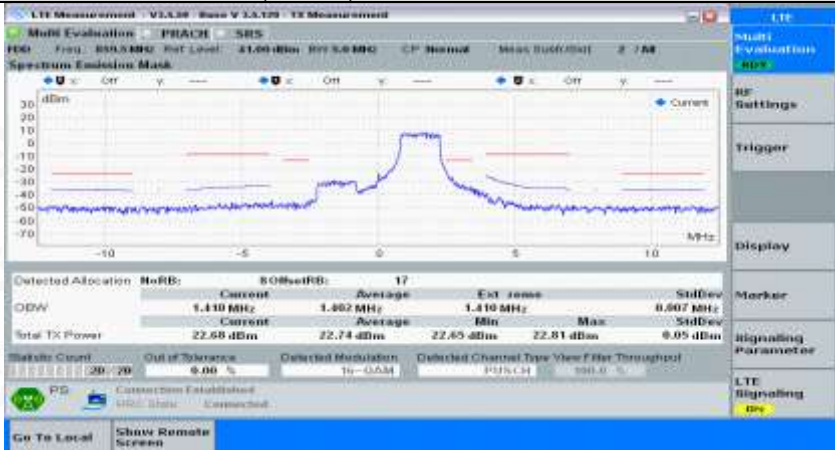
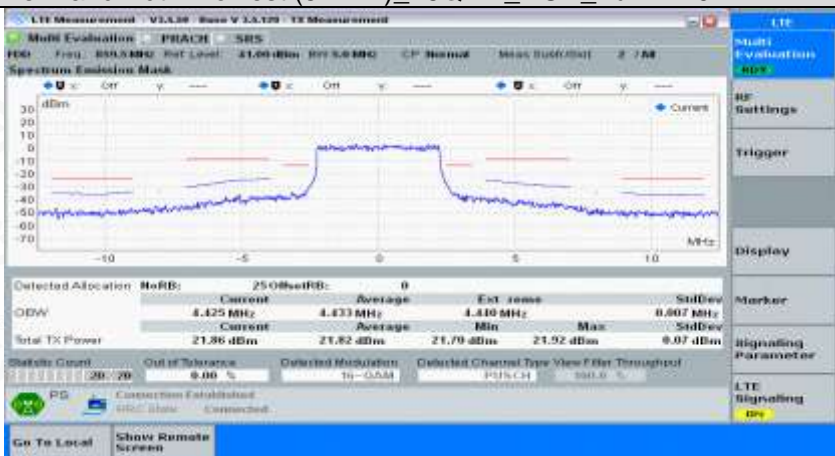
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QPSK	
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
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16QAM	
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	



16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

Channel Bandwidth= (10 MHz)

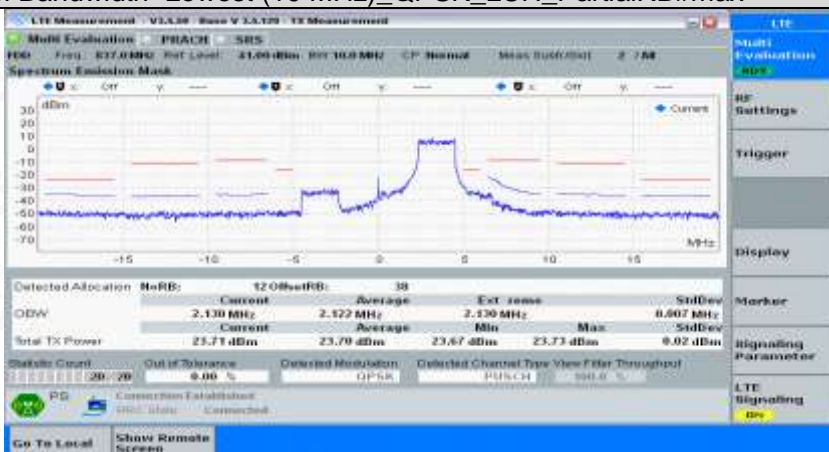
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QPSK



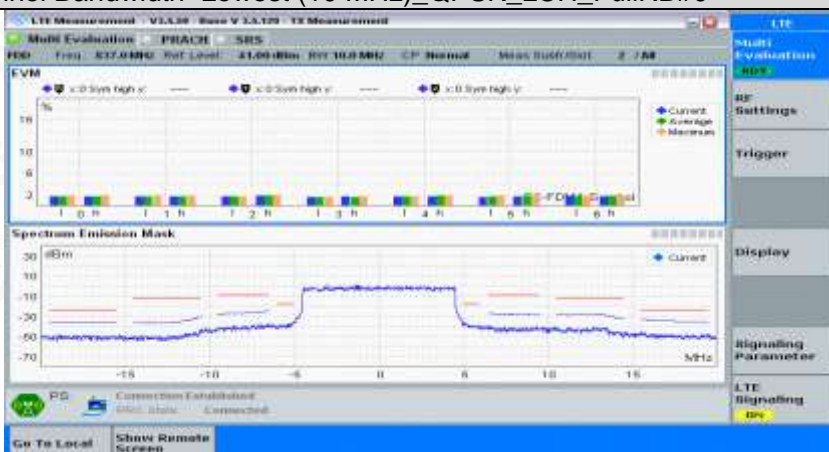
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QPSK

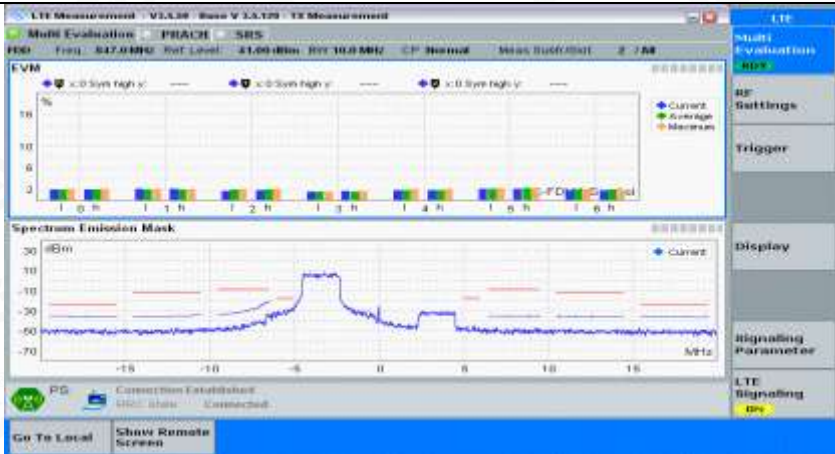

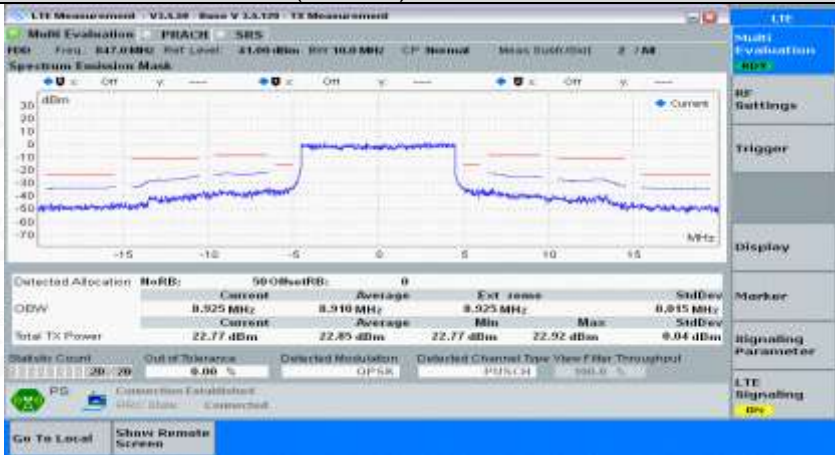





Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0



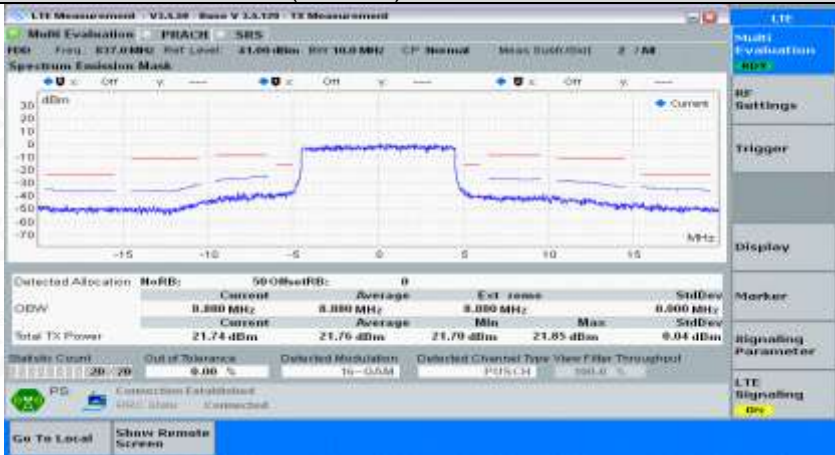
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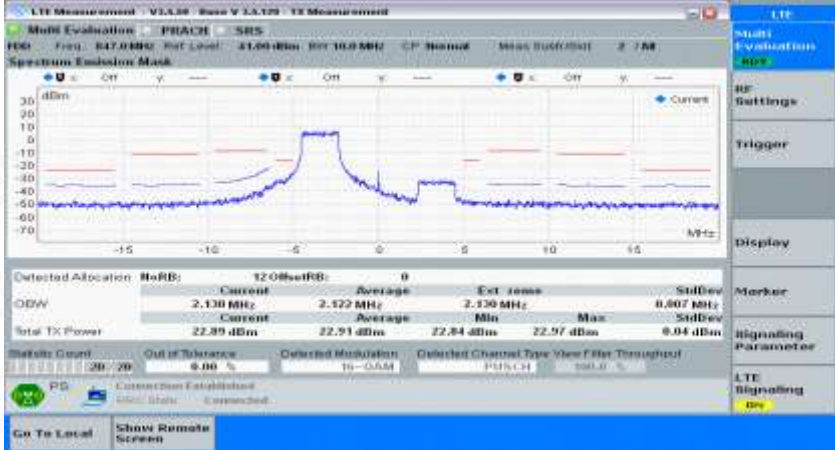
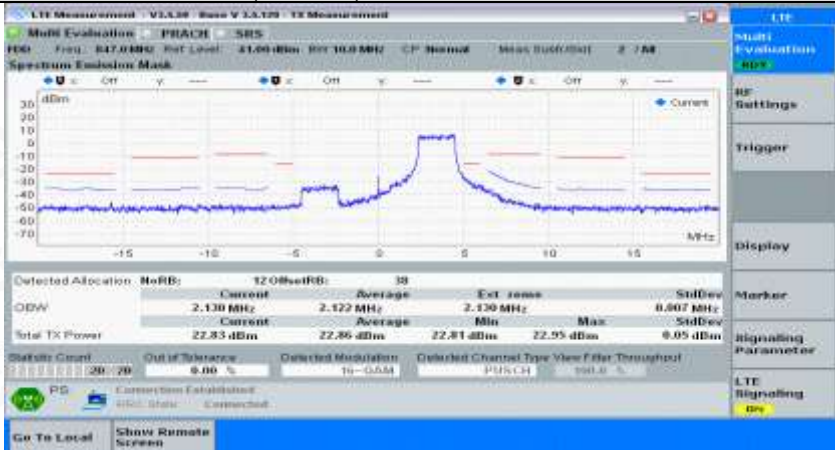
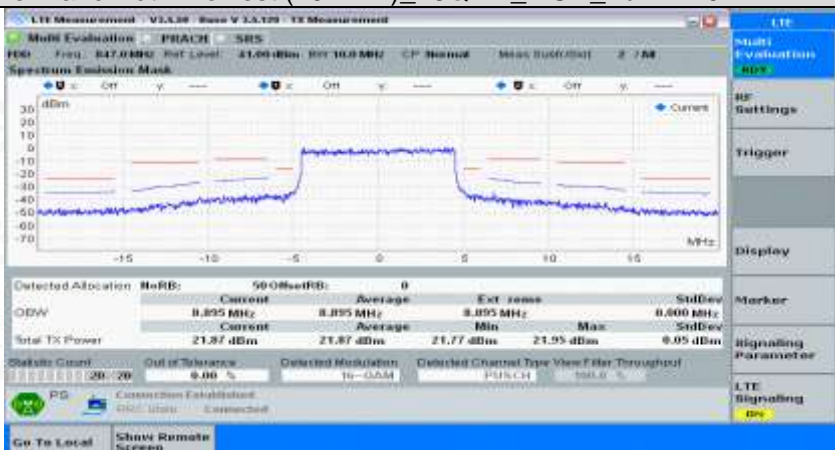


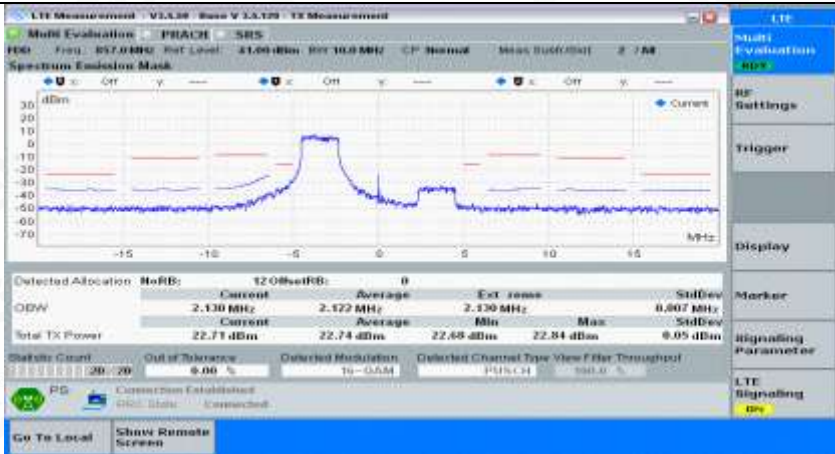
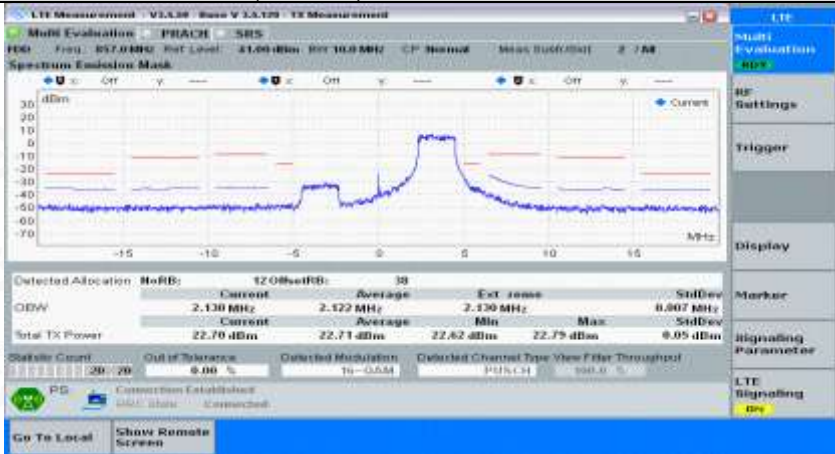
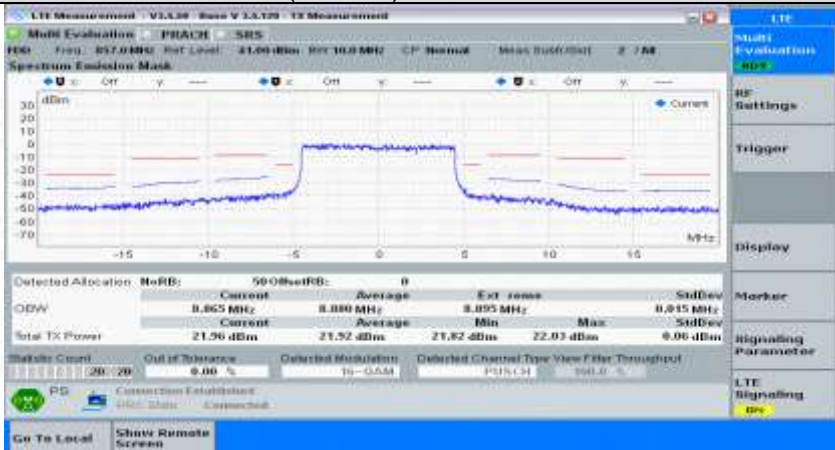
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QPSK	
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

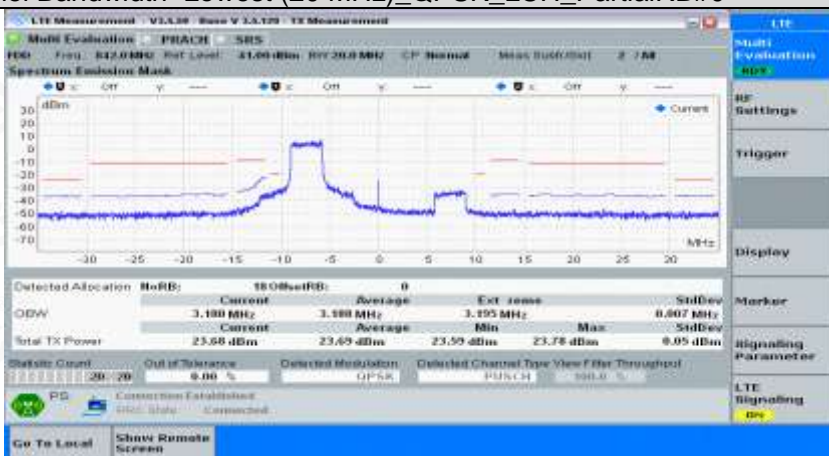
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

Channel Bandwidth=Highest (20 MHz)

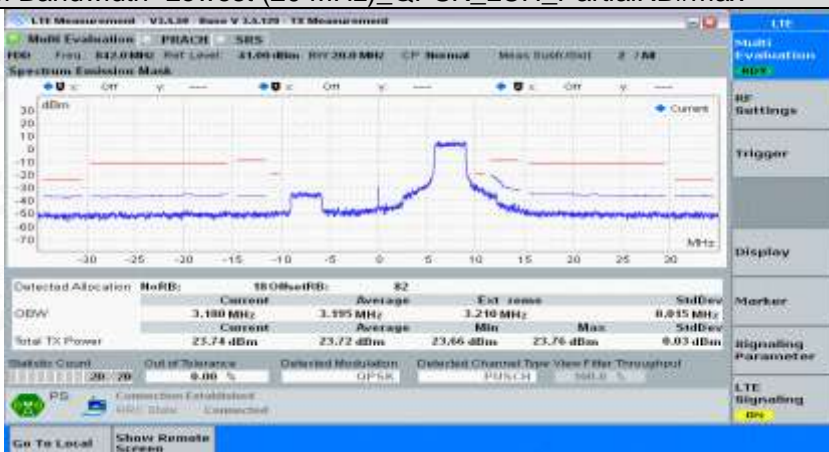
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0

QPSK



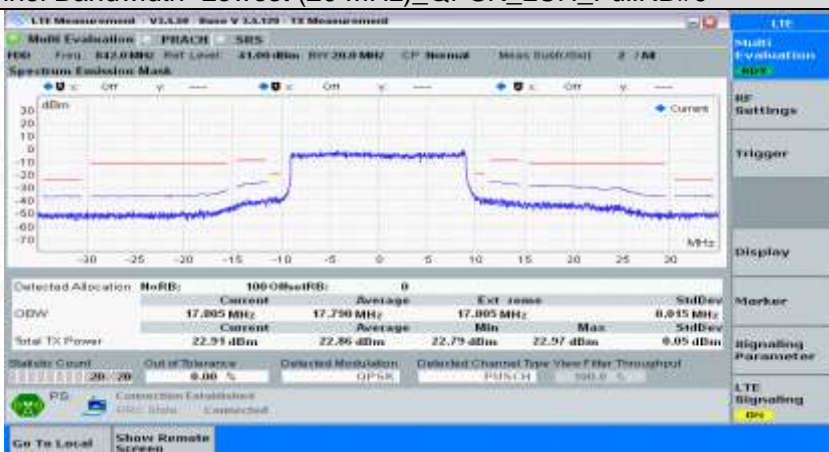
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max

QPSK

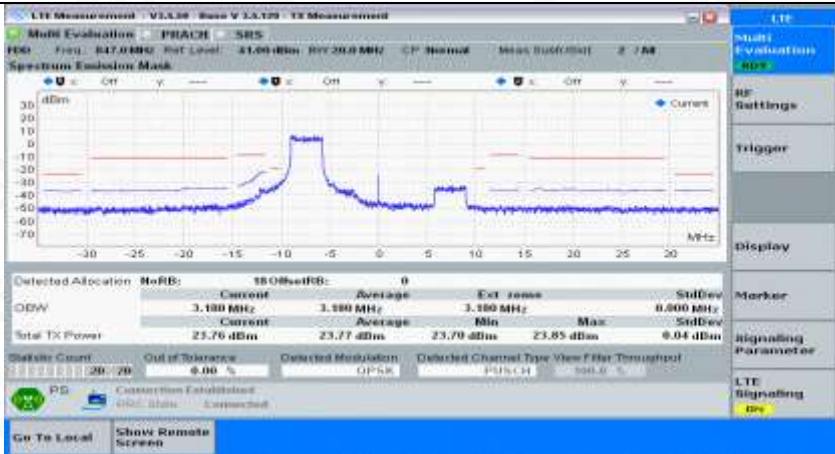
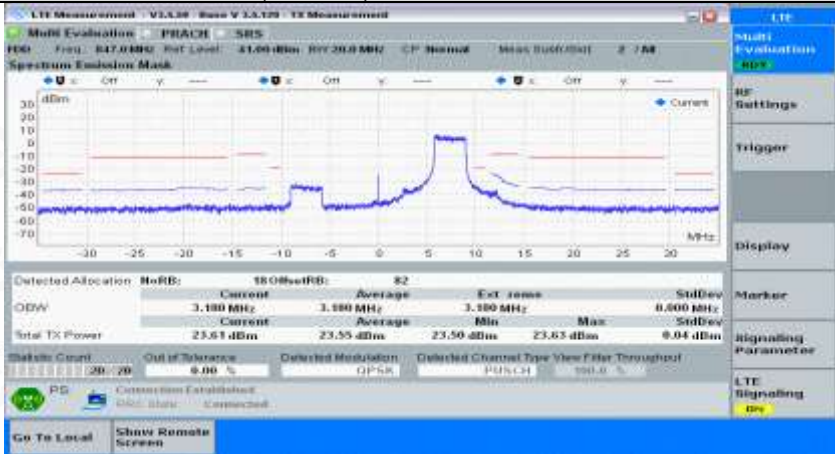
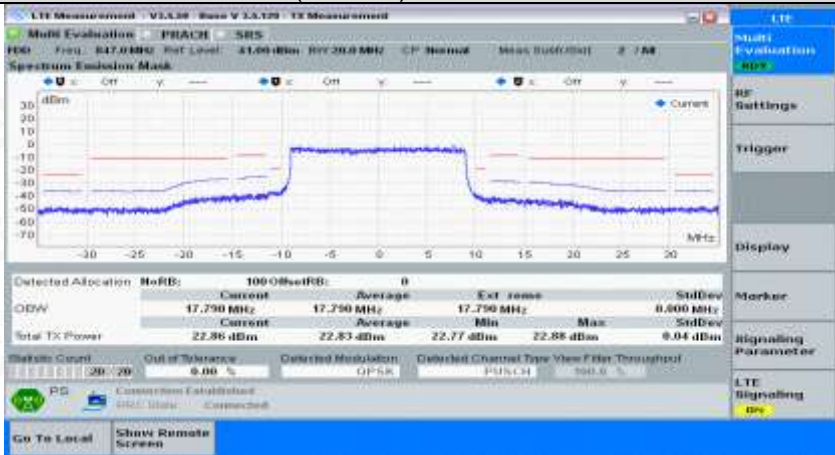


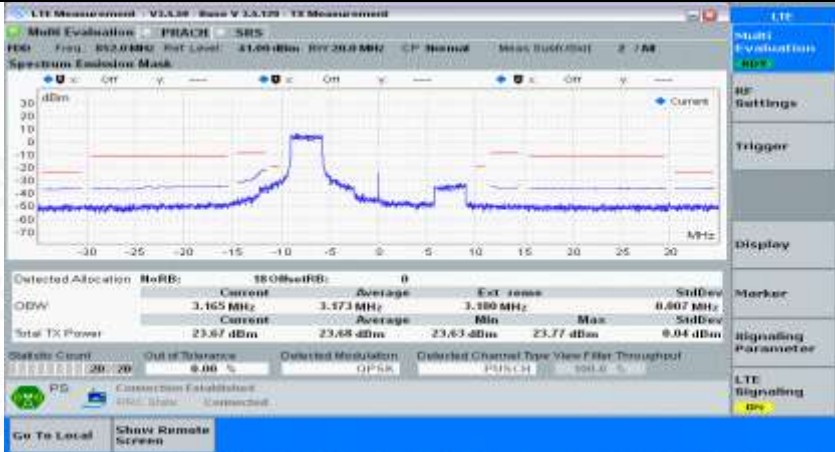
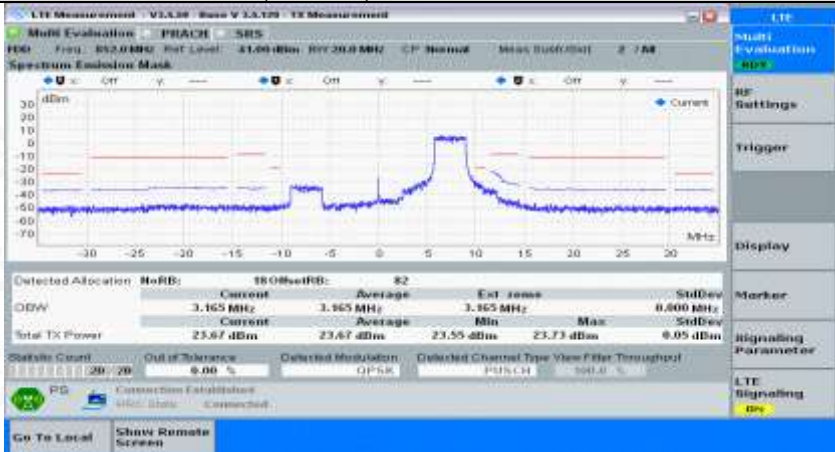
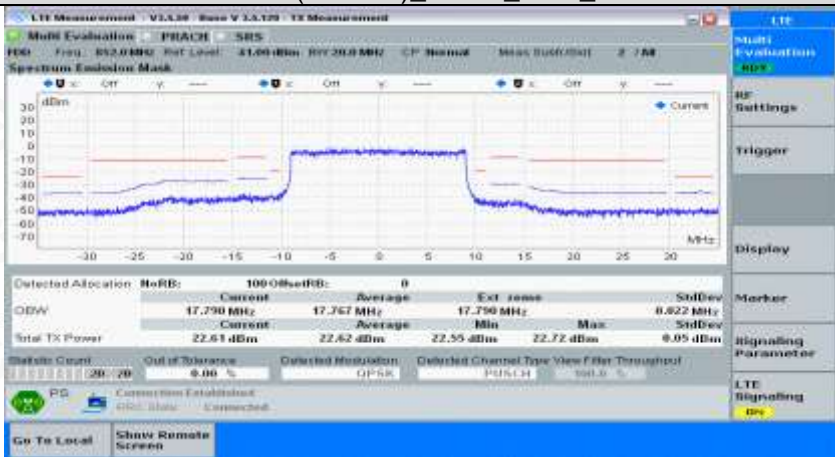
Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullIRB#0

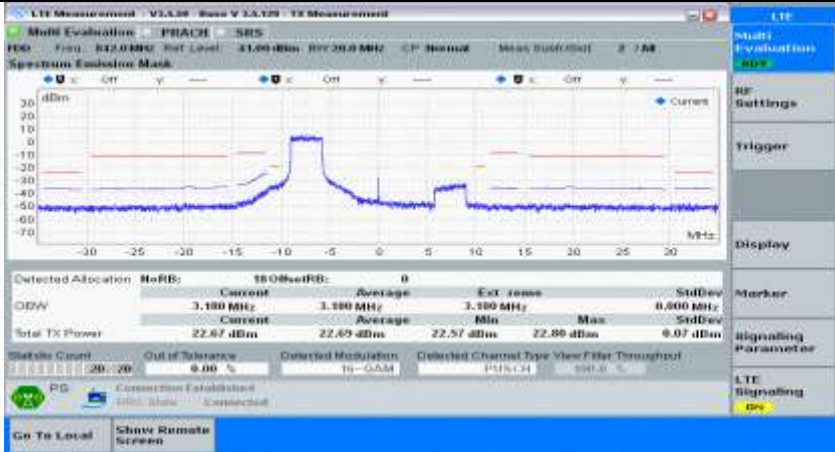
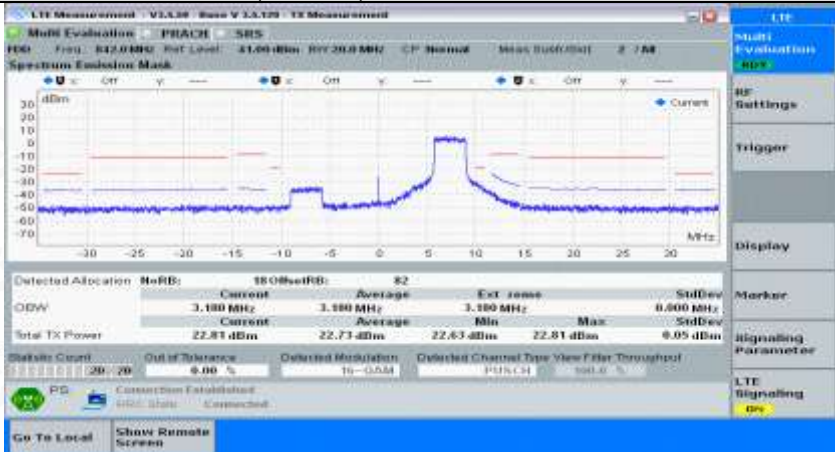
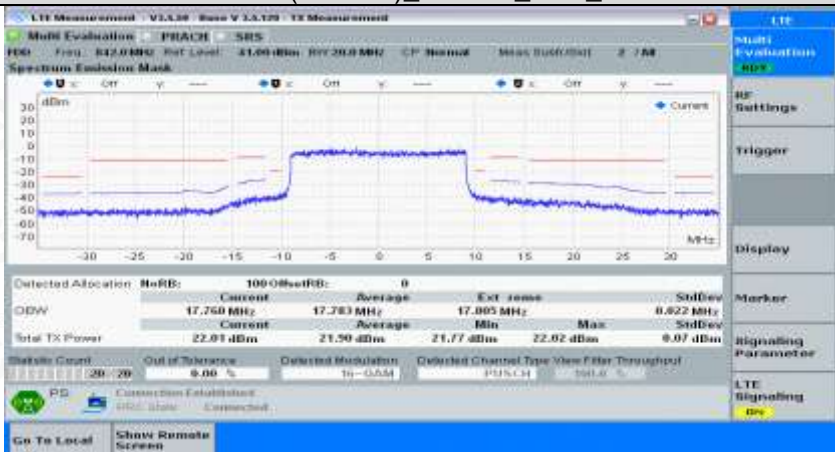
QPSK



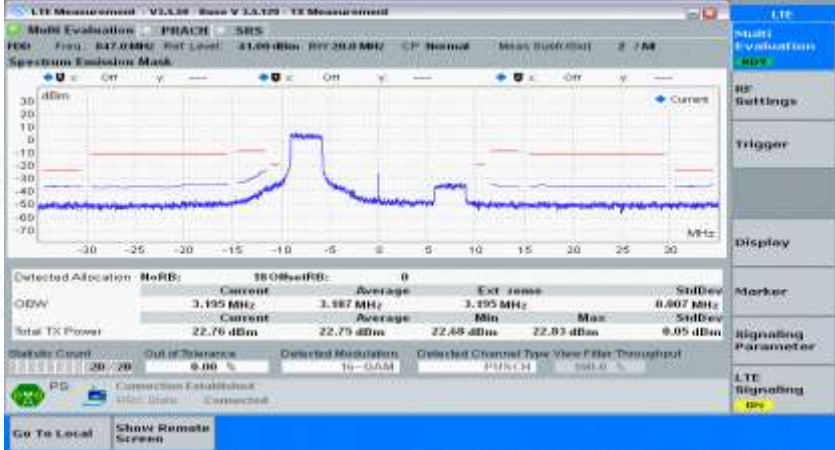
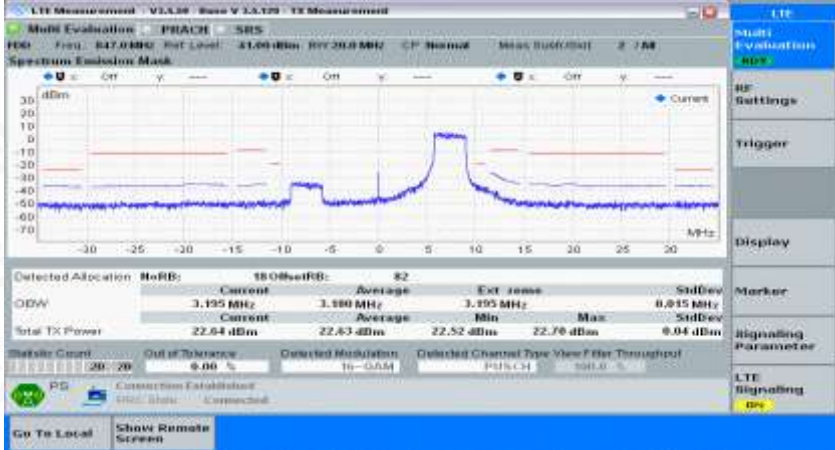
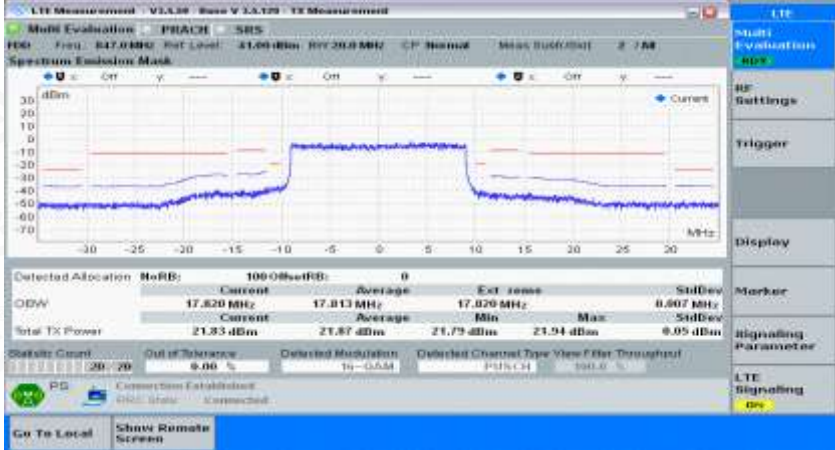
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

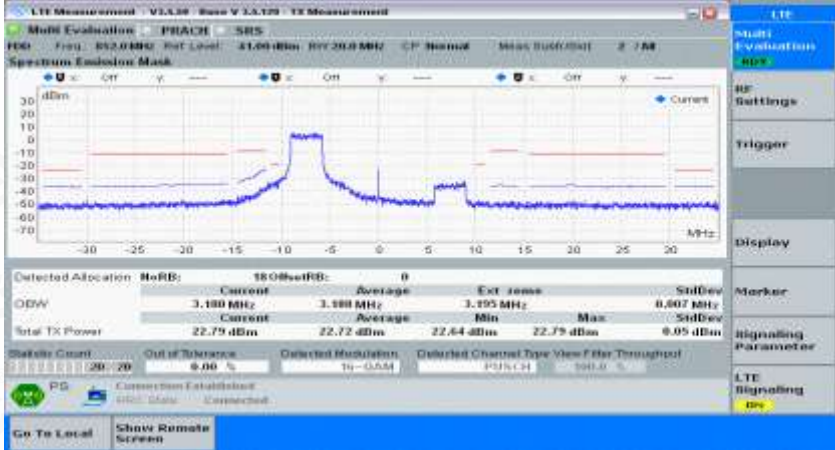
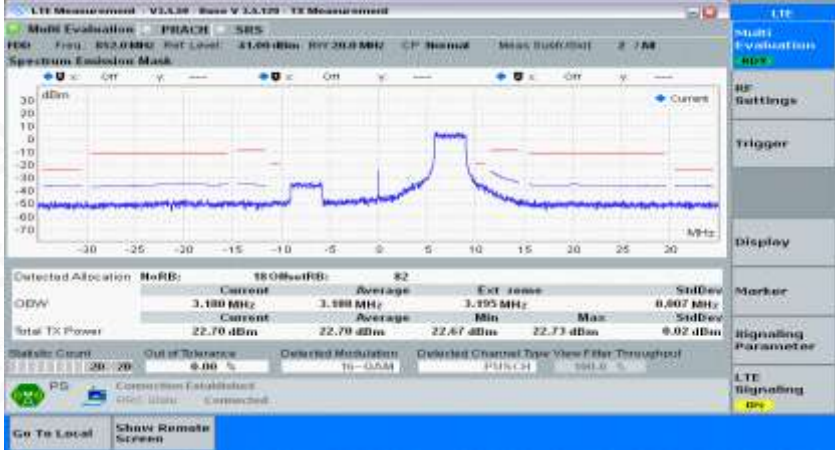
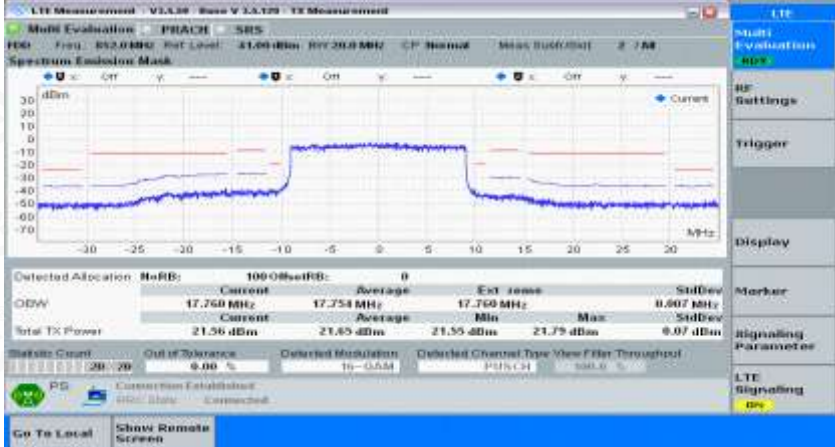
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	



16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	



4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full			0	PUMAX	Pass	
	16QAM		Low range	Partial	0	PUMAX	Pass
max		PUMAX			Pass		



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			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)




Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	



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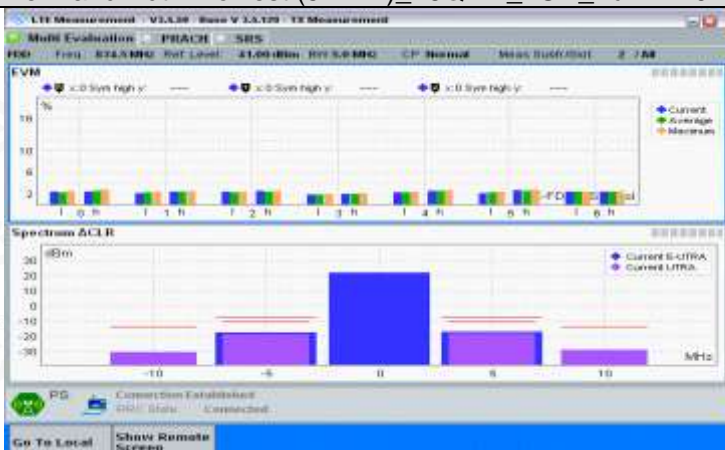
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com




Service Hotline: 400 089 2118

QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>

QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>

16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>	<p>Multi Evaluation</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>LTE Signaling</p>

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	

Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK





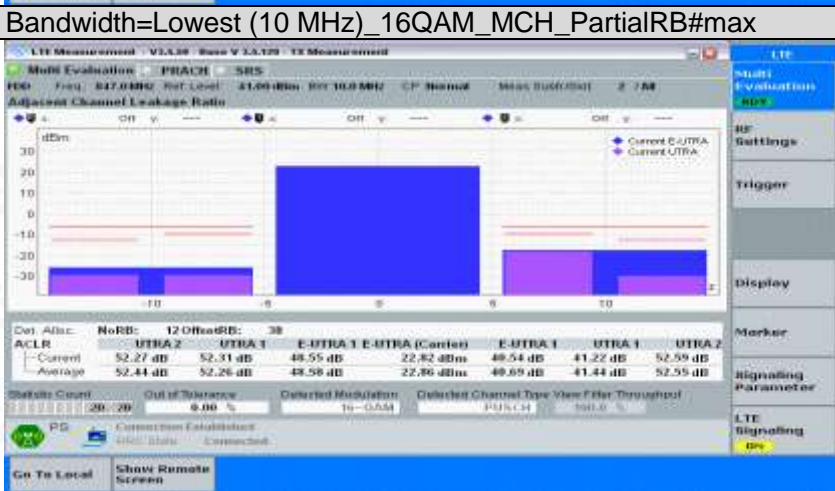
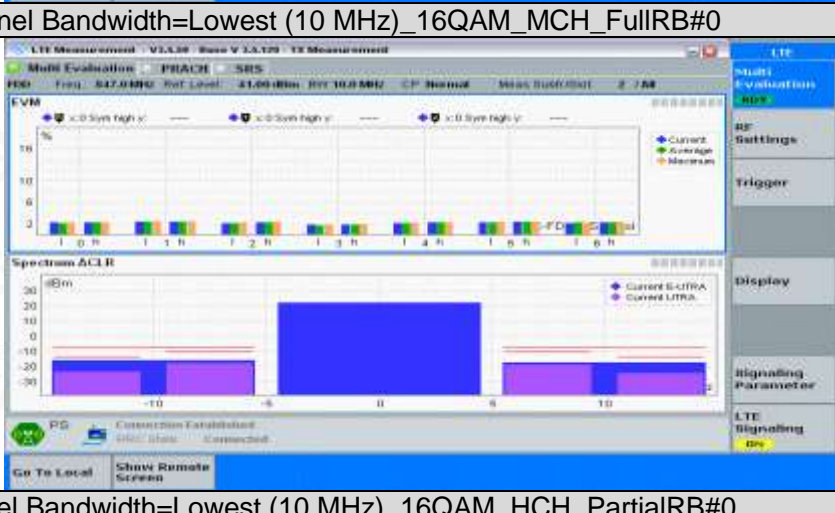
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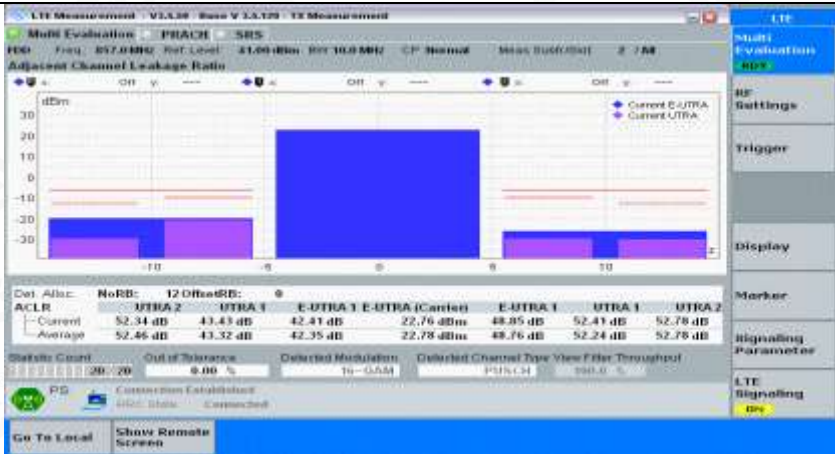


QPSK



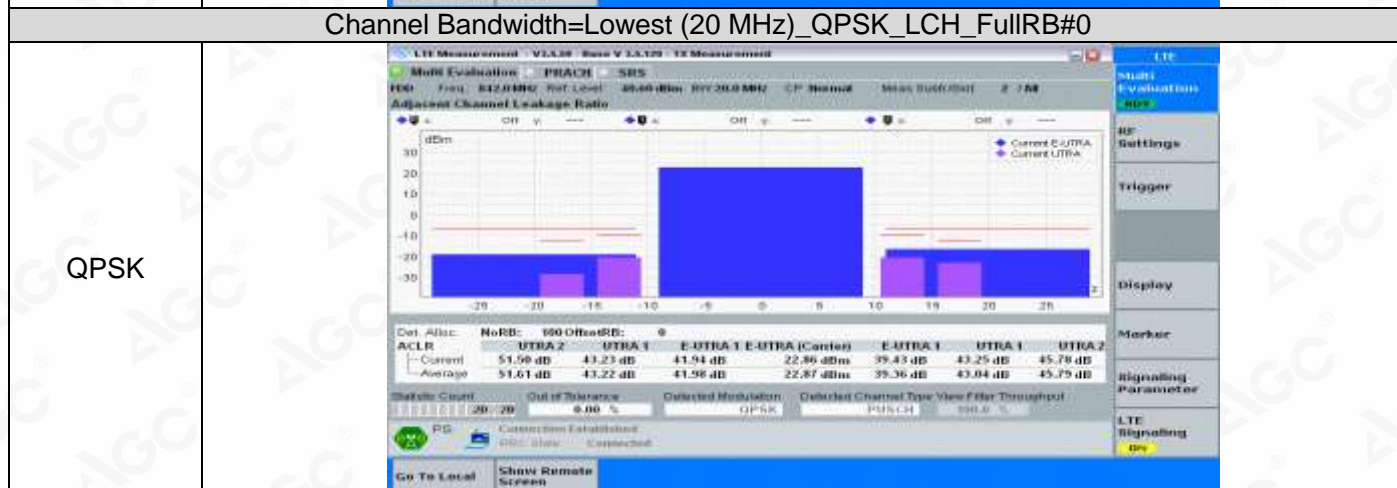
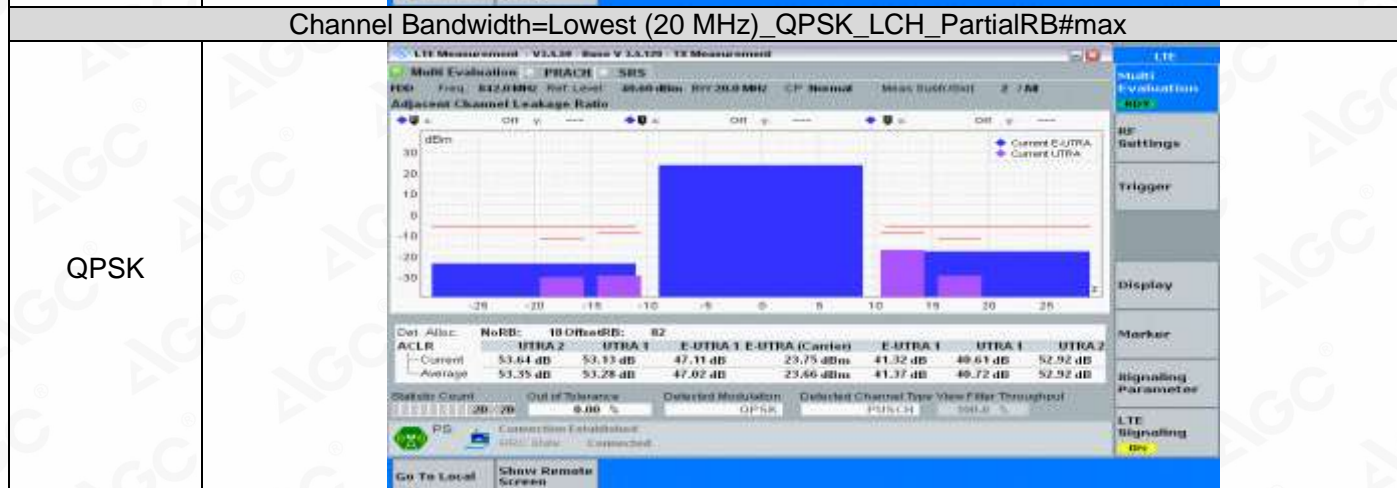
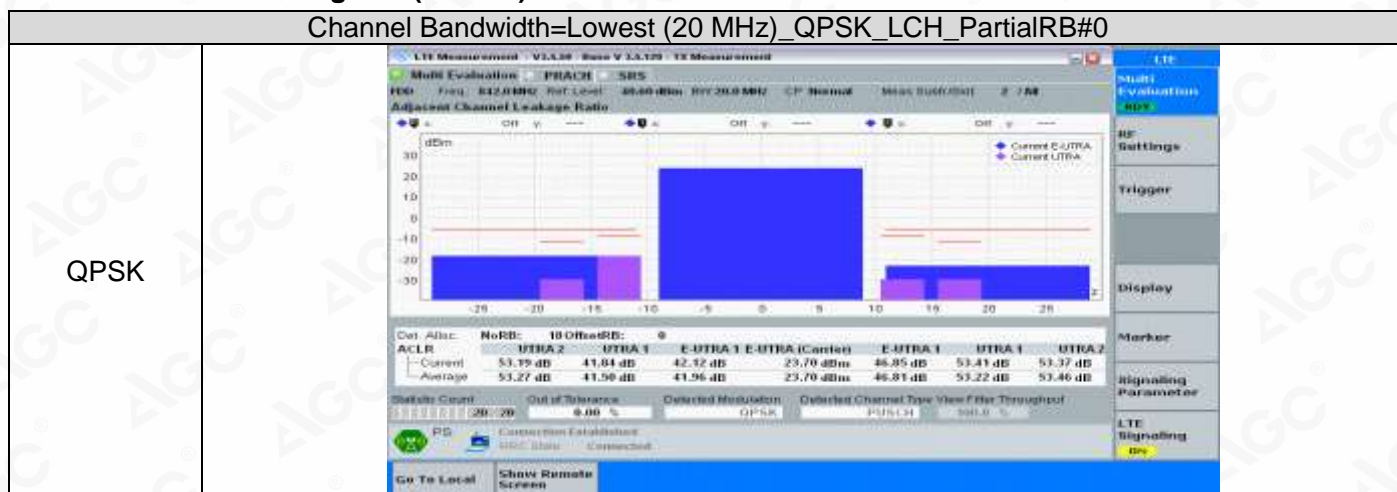
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	




16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>




16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	



Channel Bandwidth=Highest (20 MHz)






Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max		
QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0		
QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signaling Parameter</div> <div>LTE Signaling</div>
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0		

QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signalling Parameter</div> <div>LTE Signalling</div>
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max		
QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signalling Parameter</div> <div>LTE Signalling</div>
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0		
QPSK		<div>Multi Evaluation</div> <div>RF Settings</div> <div>Trigger</div> <div>Display</div> <div>Marker</div> <div>Signalling Parameter</div> <div>LTE Signalling</div>
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0		

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass



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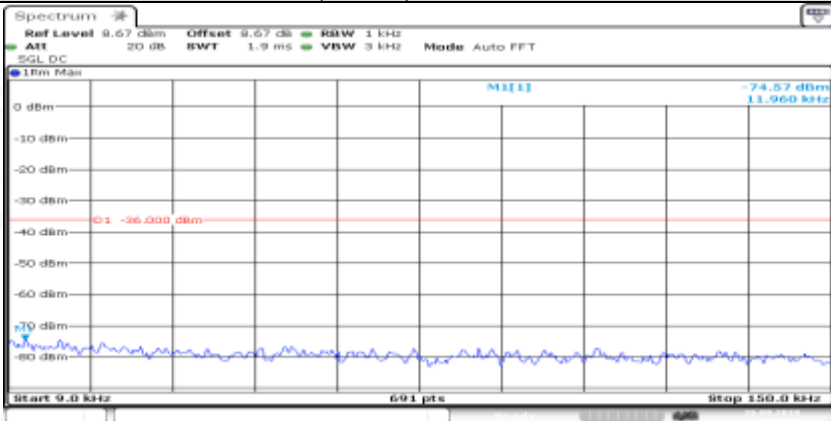
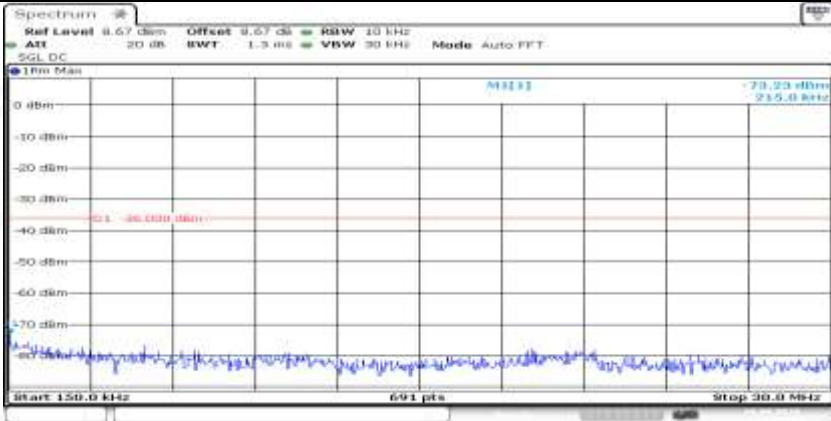

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Test Graphs

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#0	
General	
General	
General	



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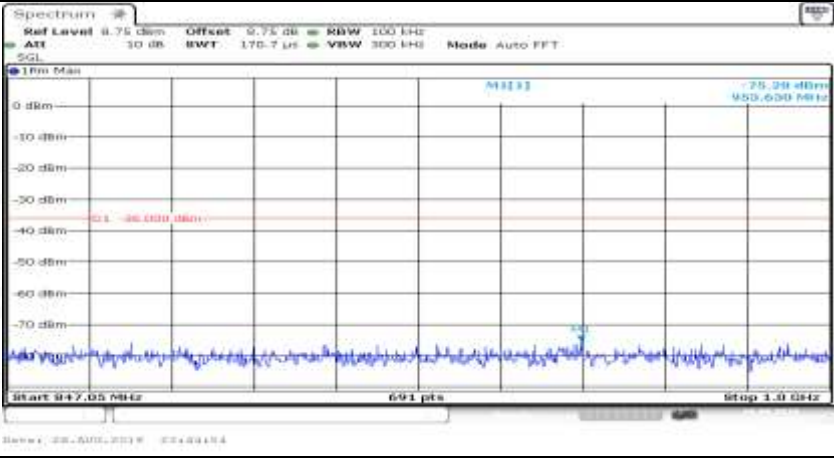
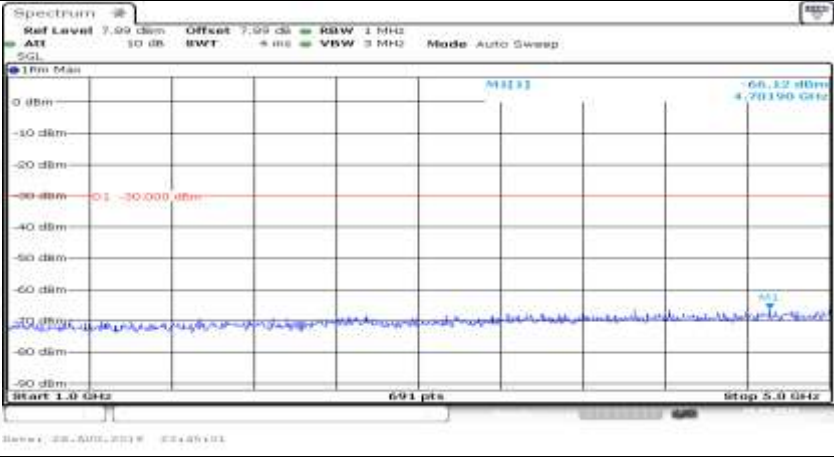
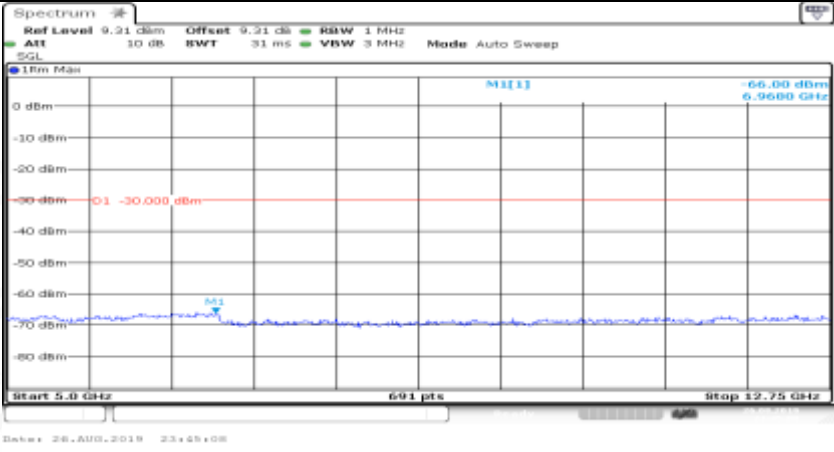
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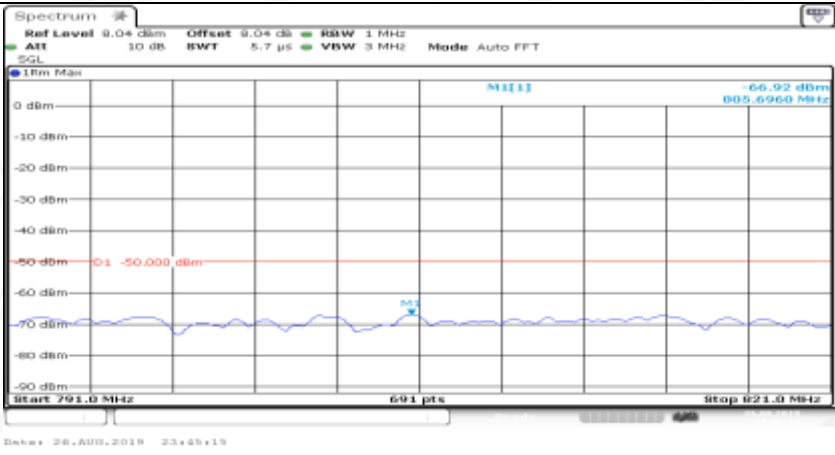
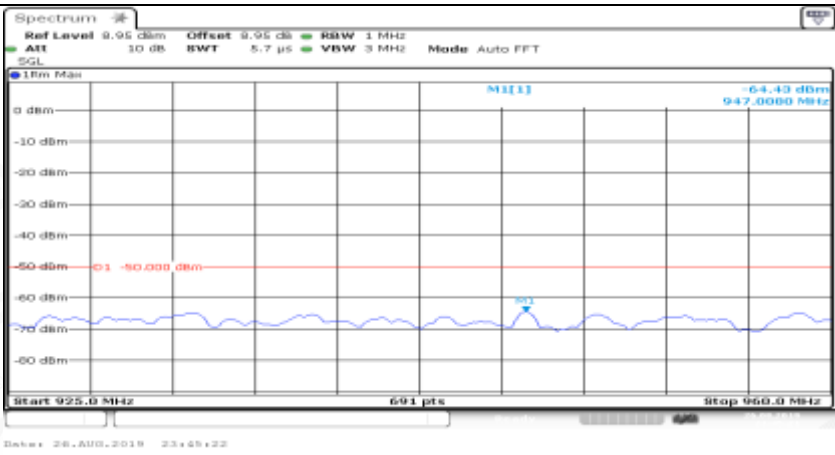

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

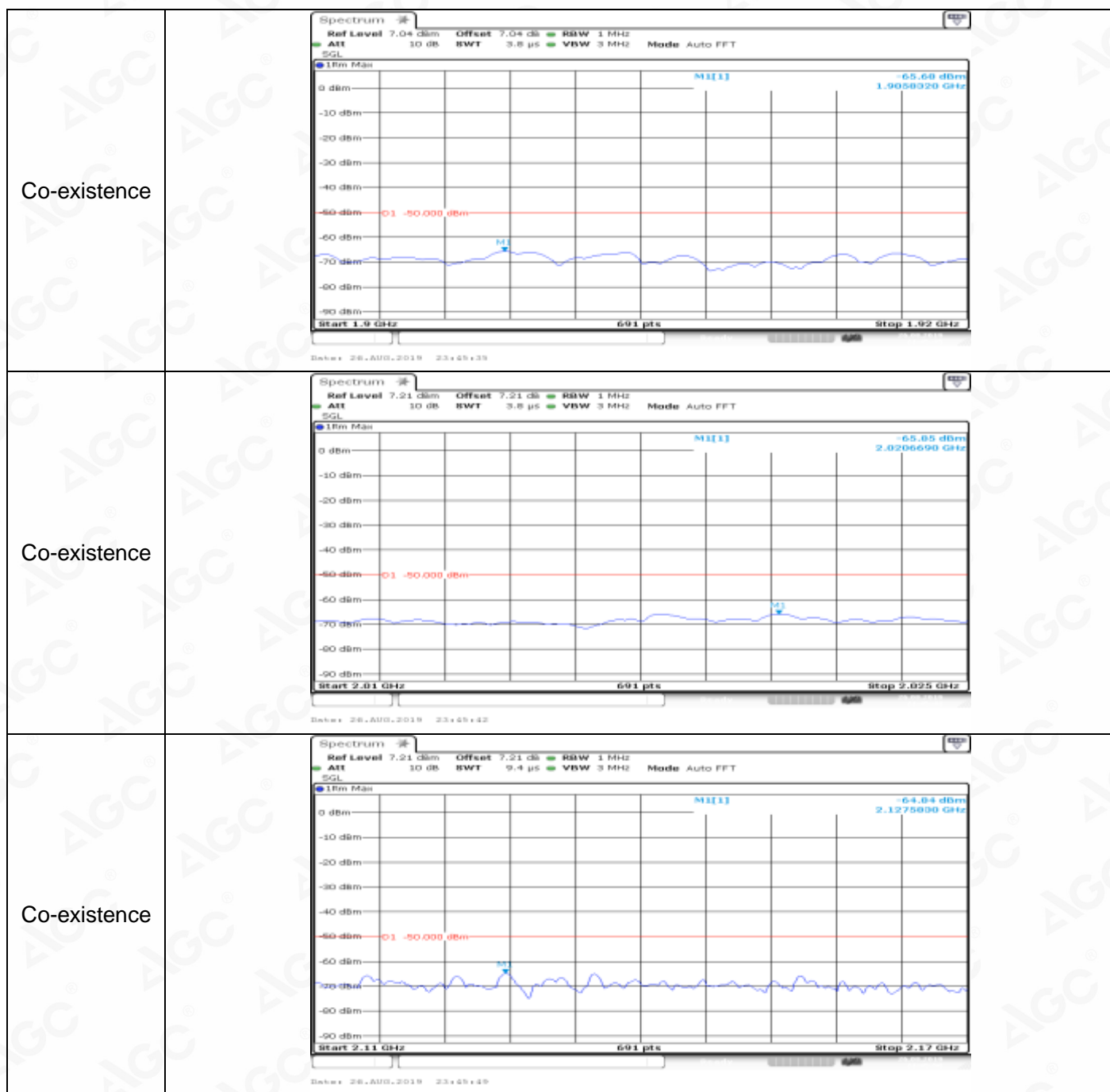
Tel: +86-755 2523 4088

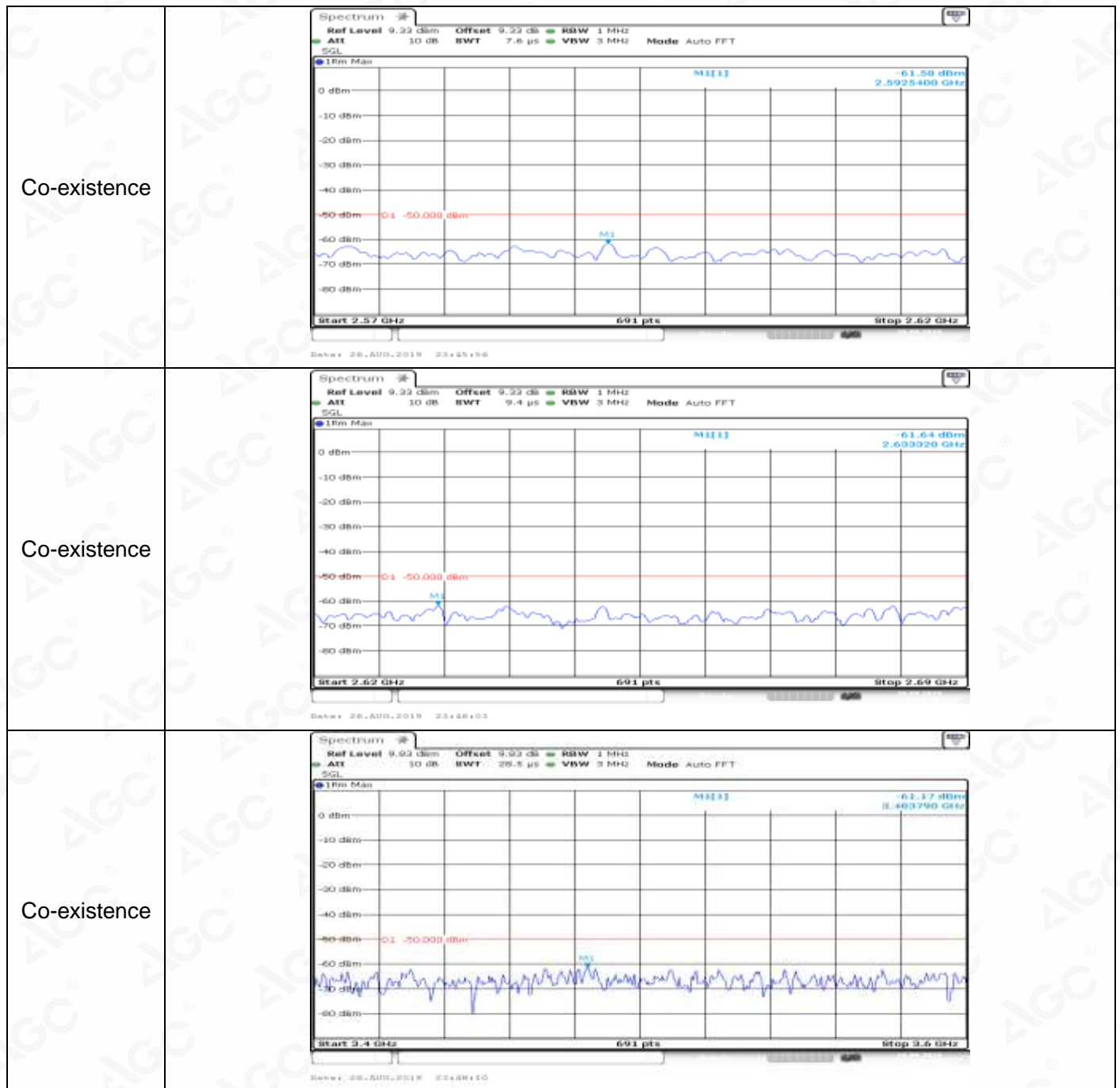
E-mail: agc@agc-cert.com

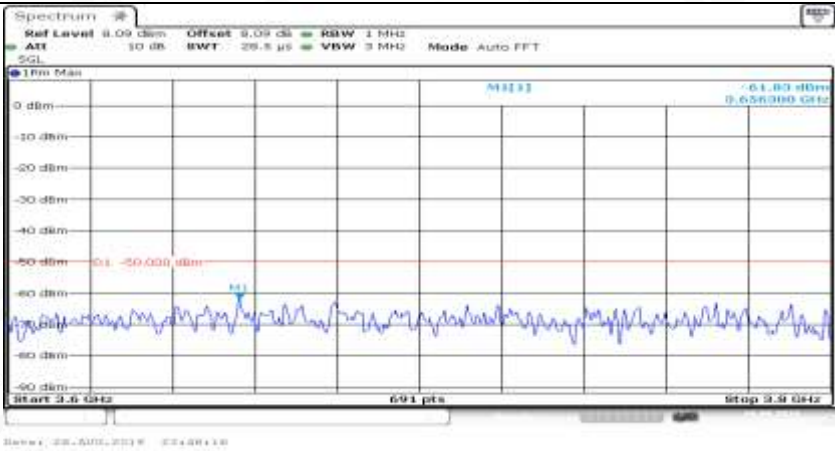
Service Hotline: 400 089 2118

General	
General	
General	

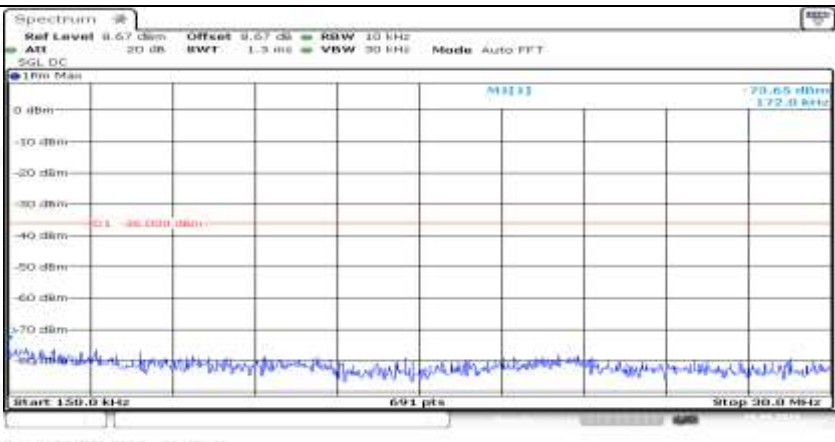
Co-existence	
Co-existence	
Co-existence	

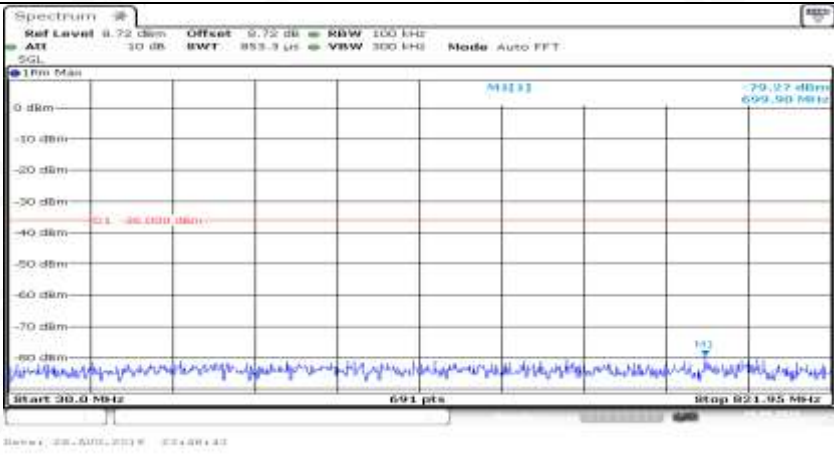
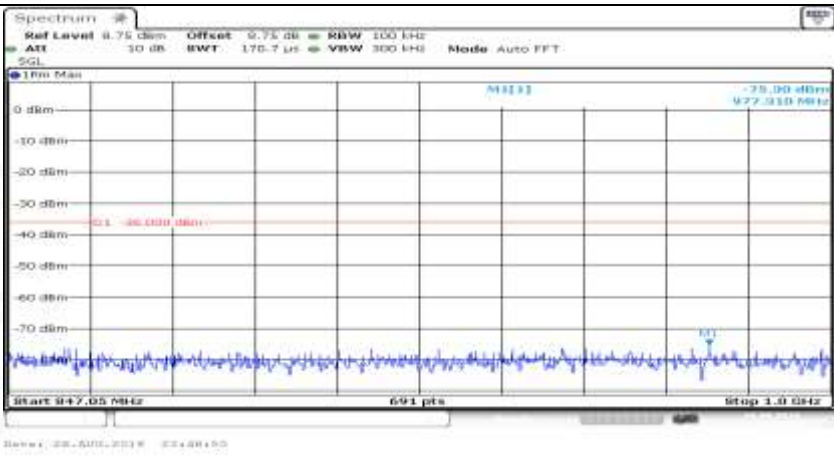
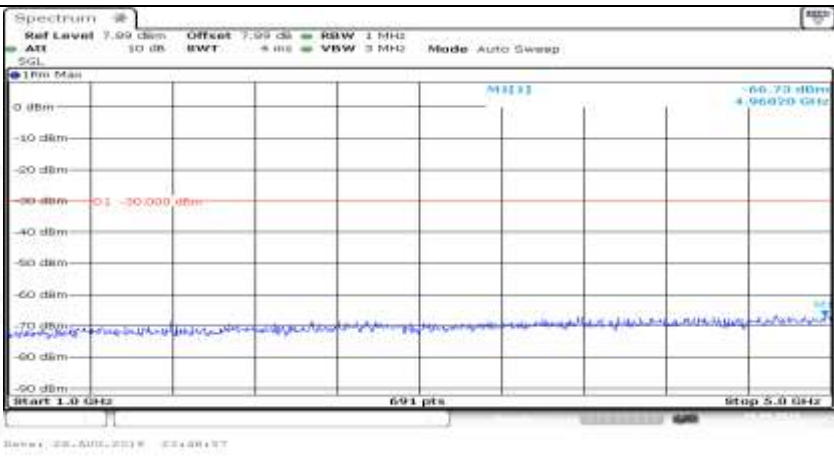




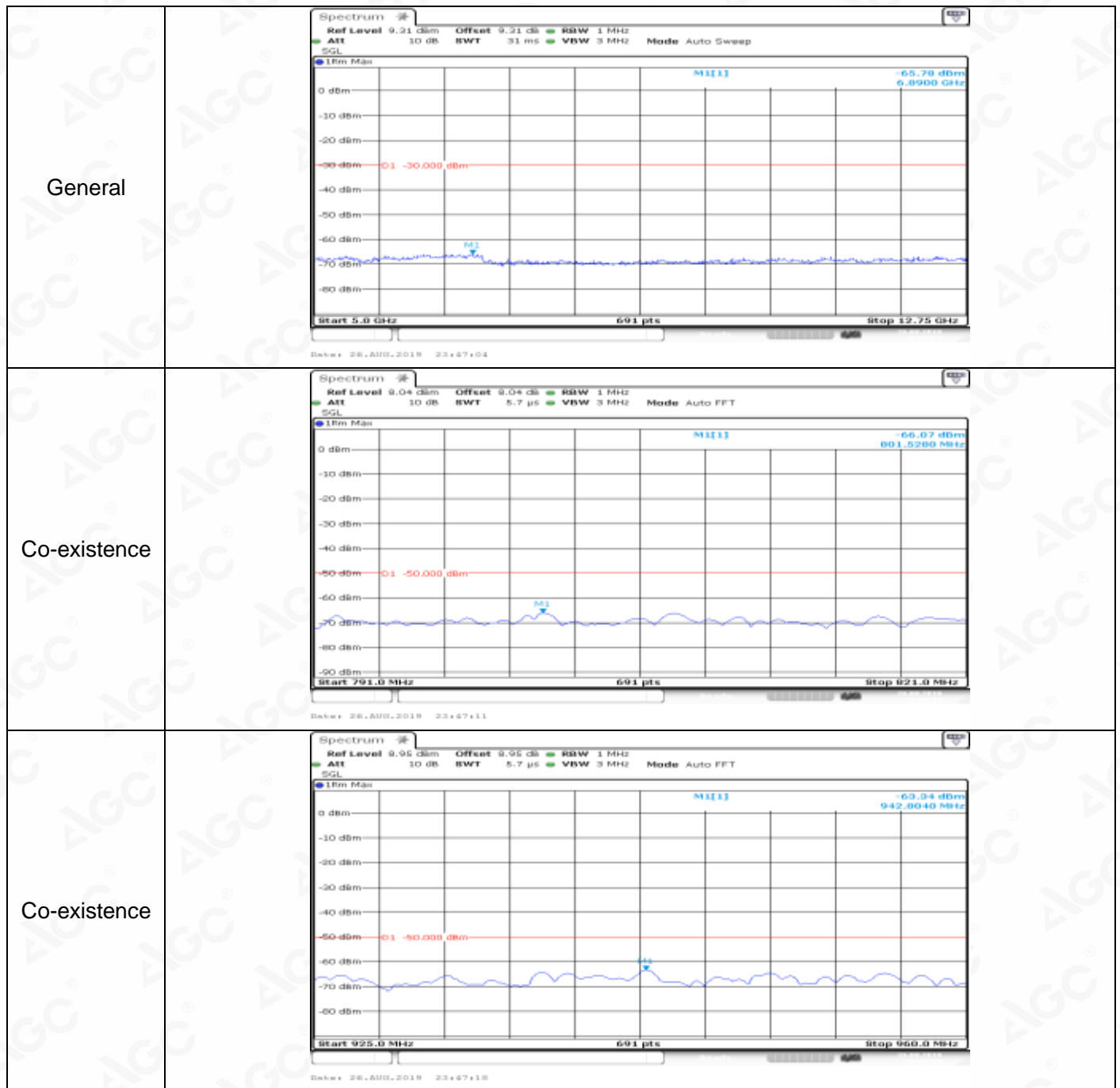
Co-existence	
Additional	NA


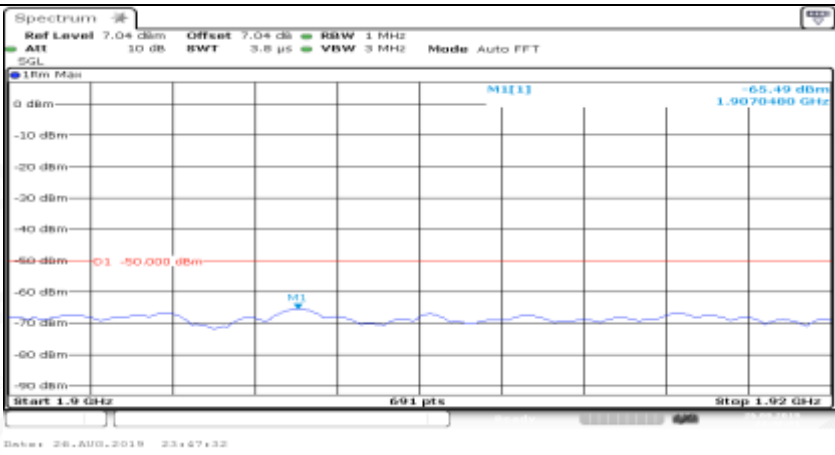
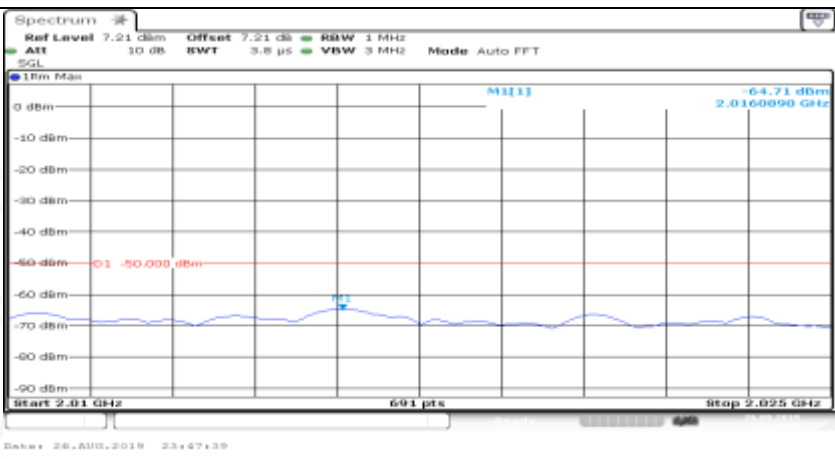
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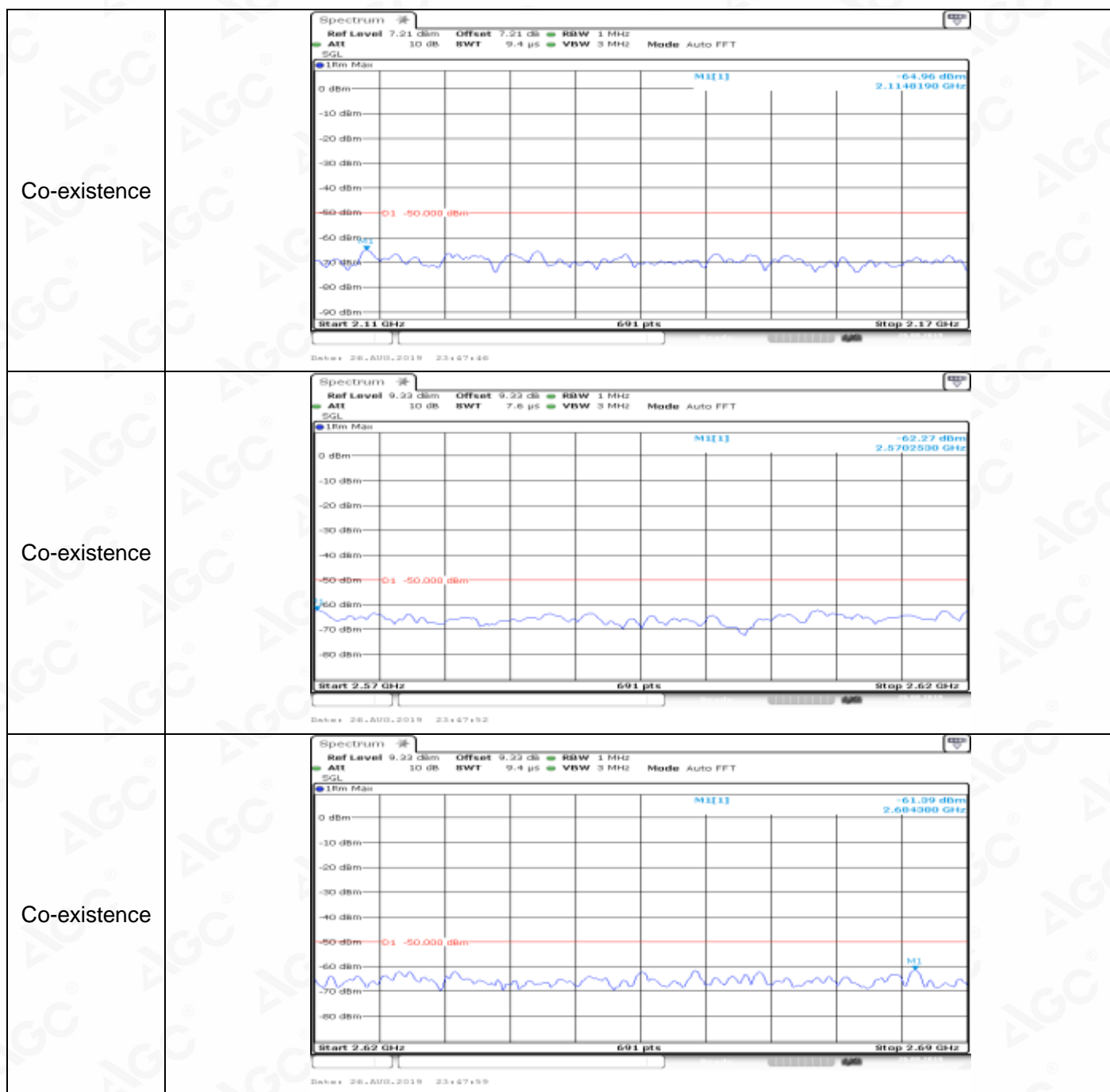
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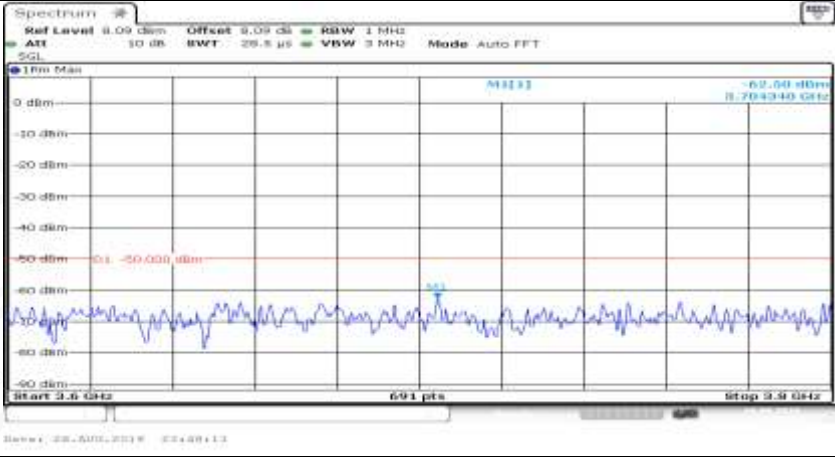
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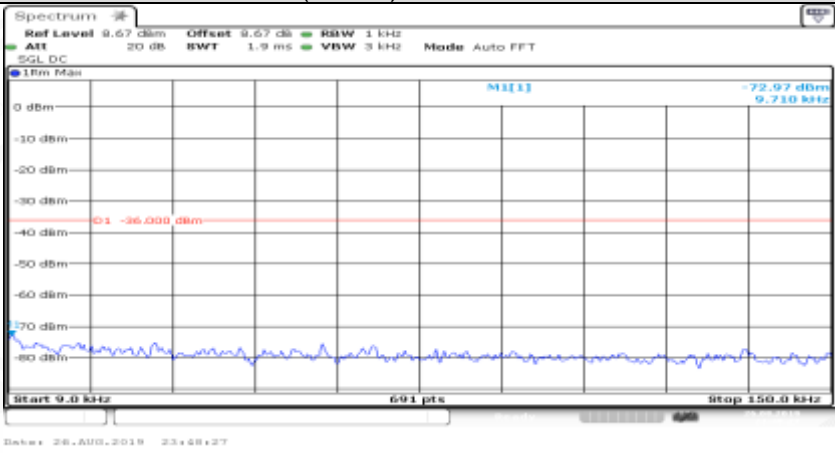


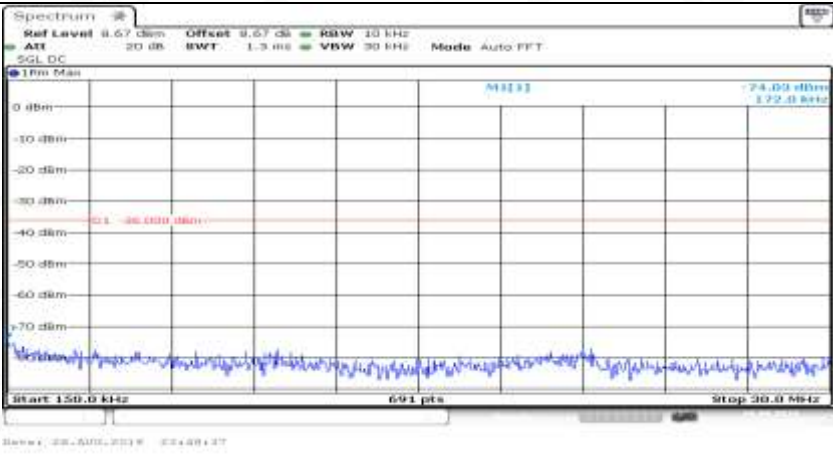
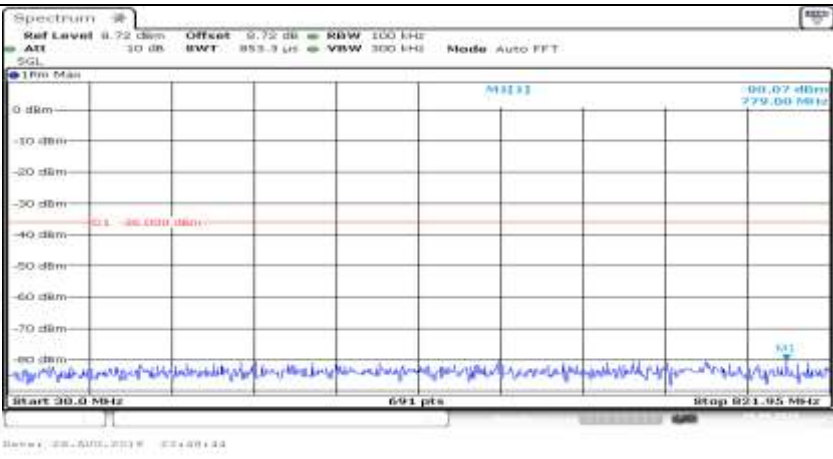
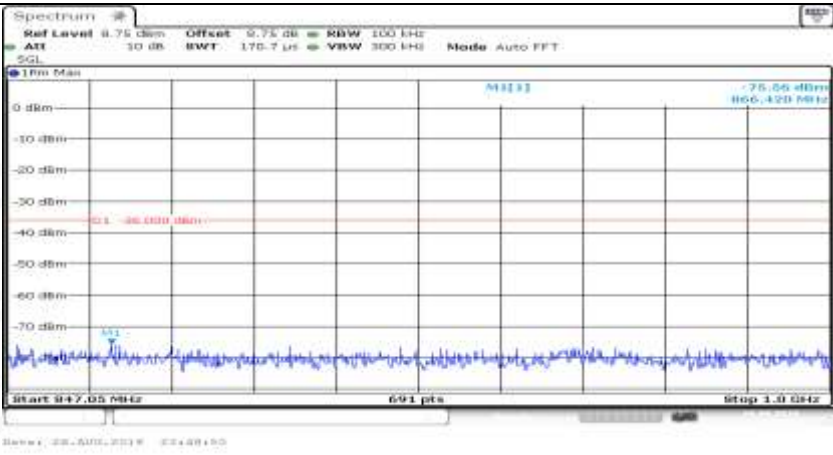


Co-existence	
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Co-existence	

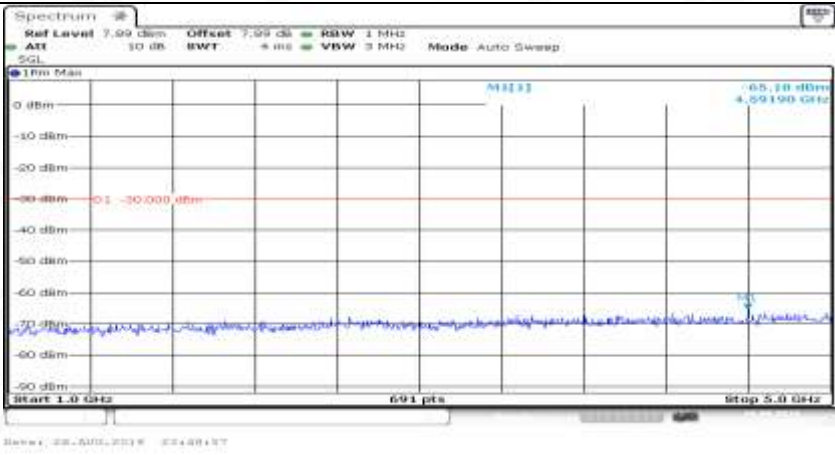
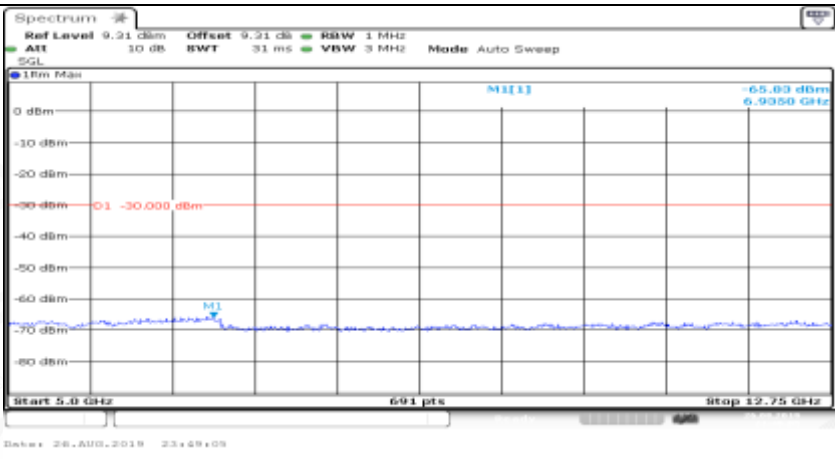
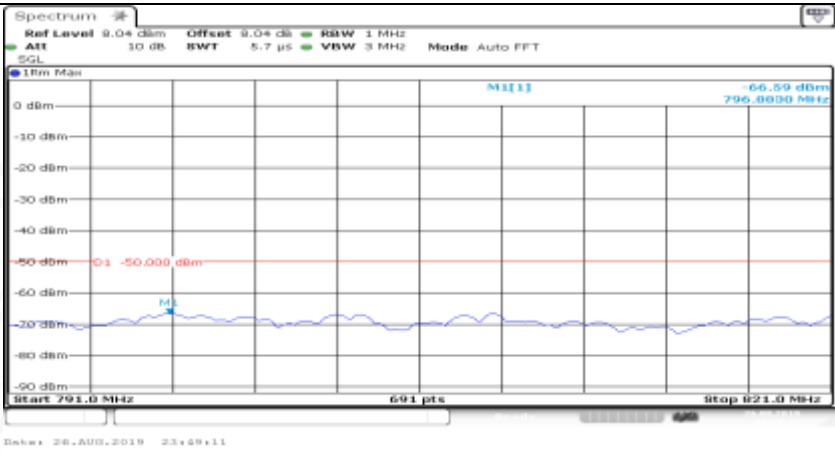


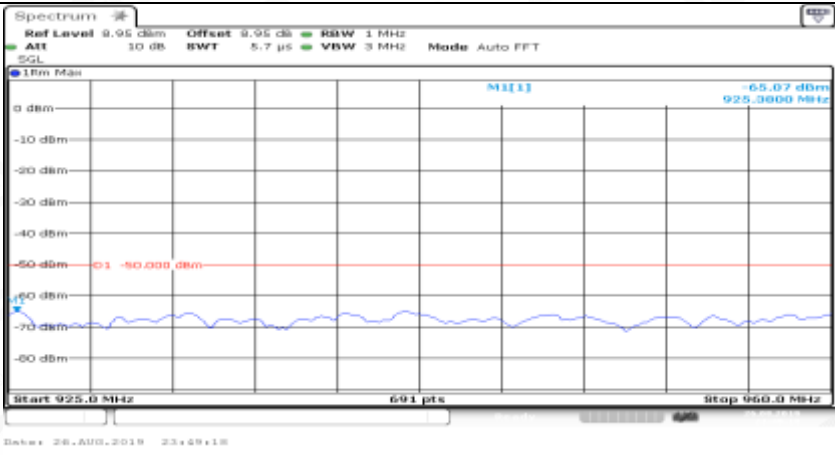

Co-existence	
Co-existence	
Additional	NA

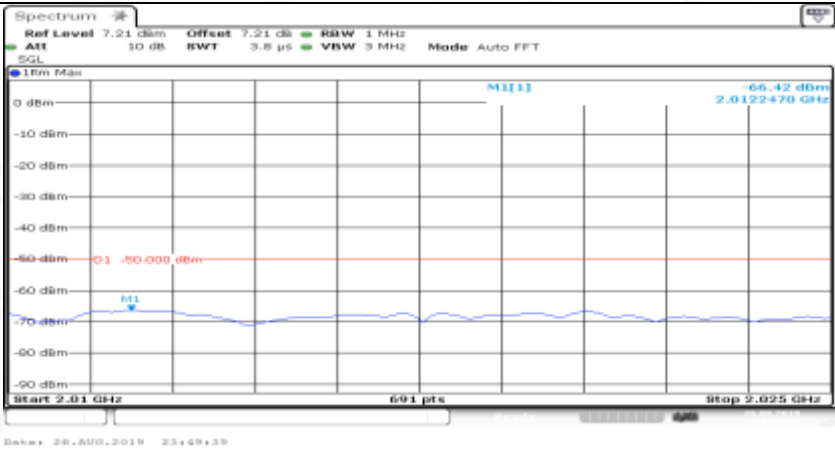
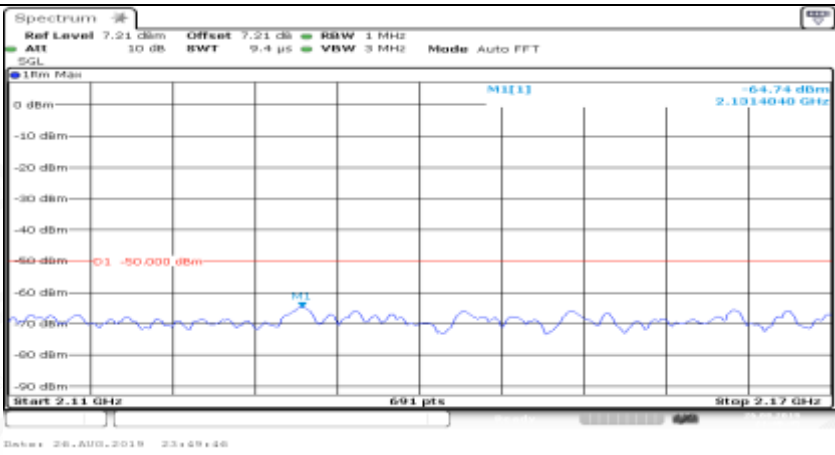
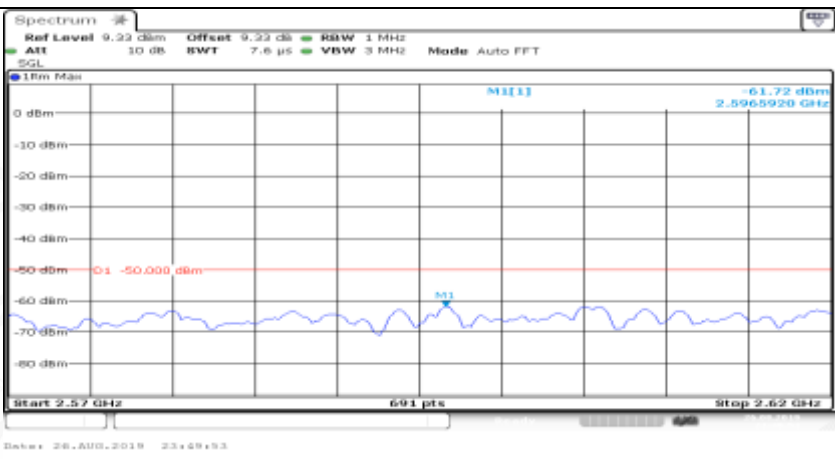
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General	

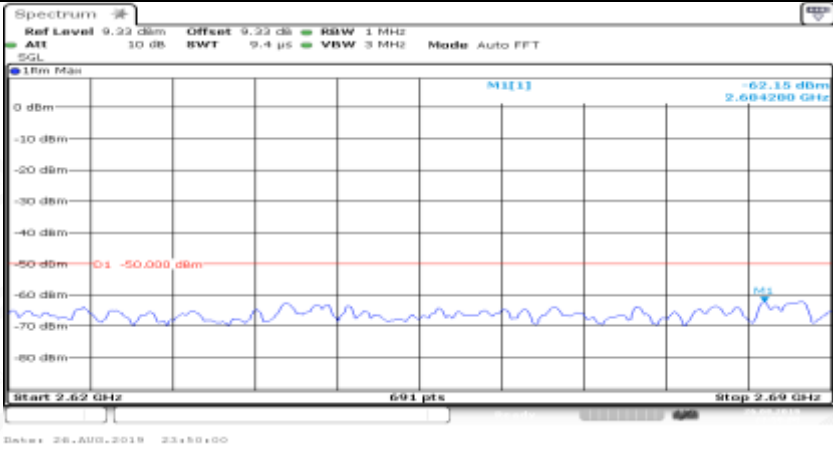
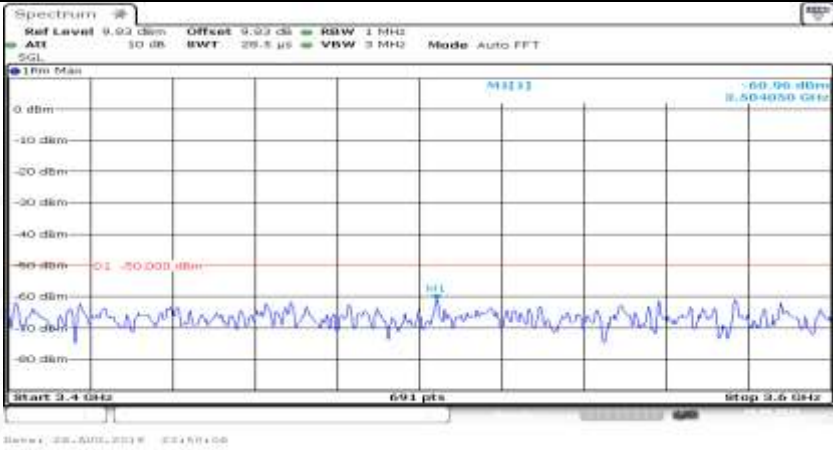
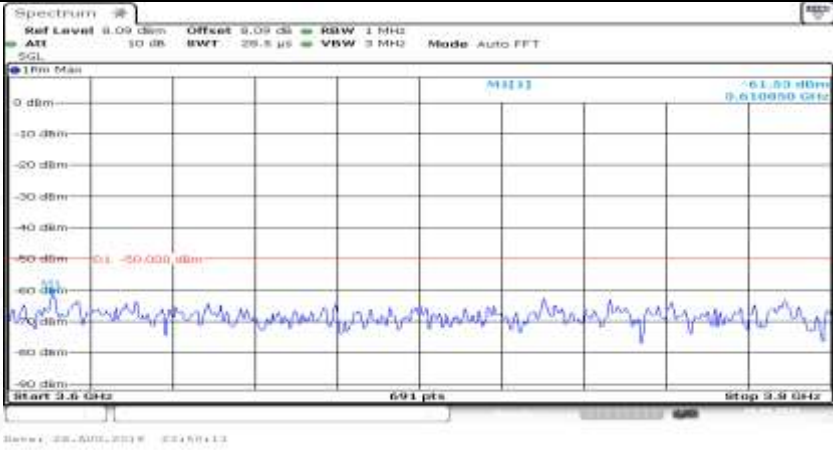
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General	



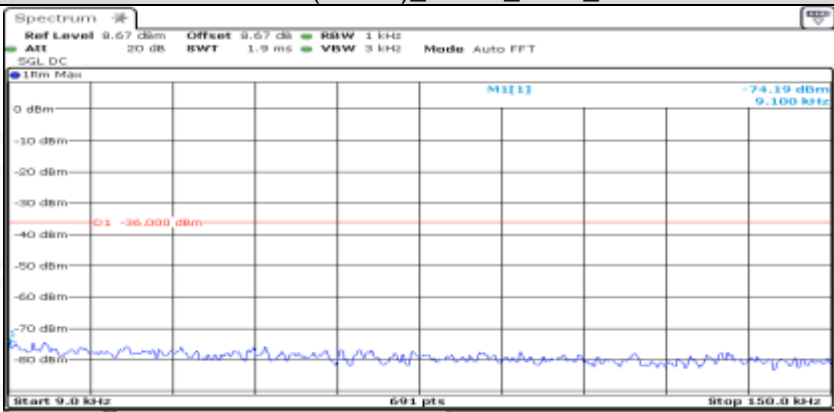
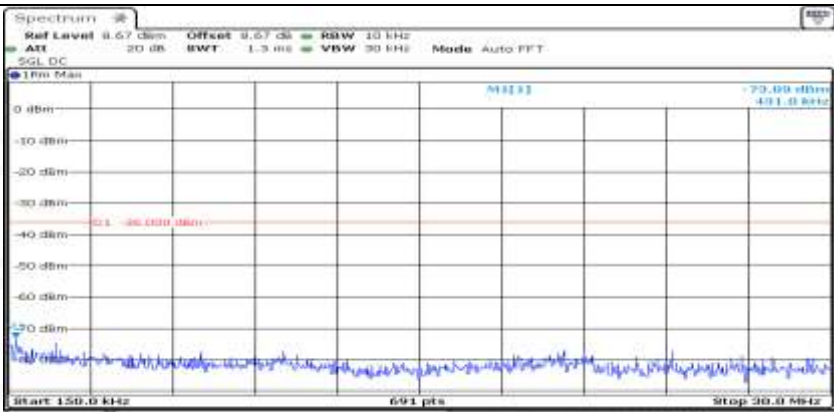
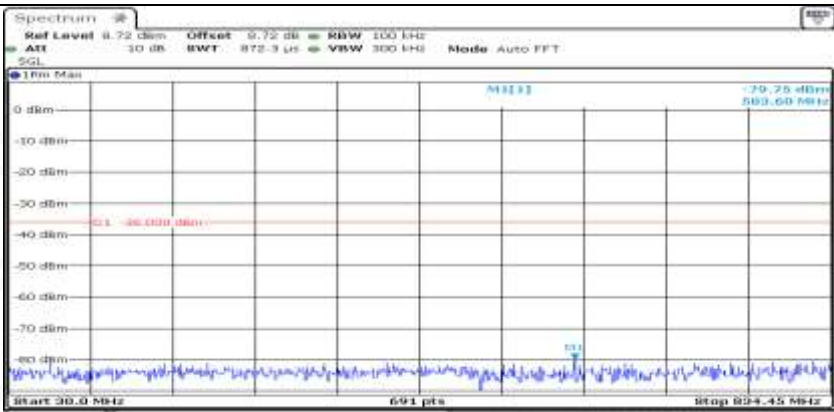
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Co-existence	

Co-existence	
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Co-existence	

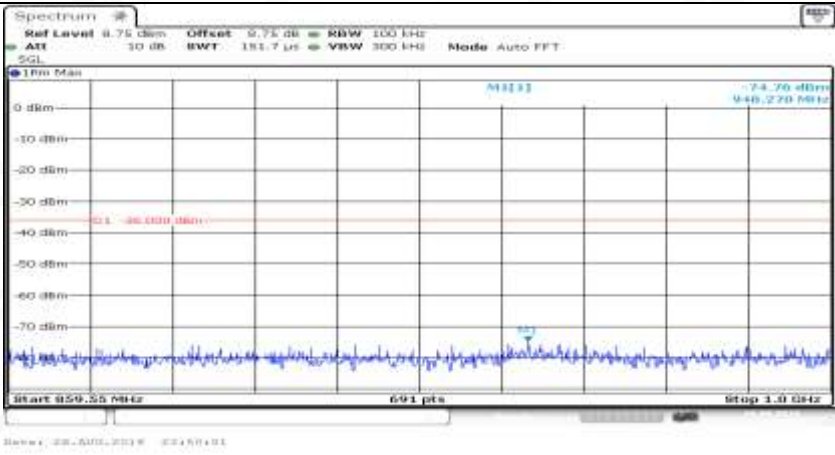
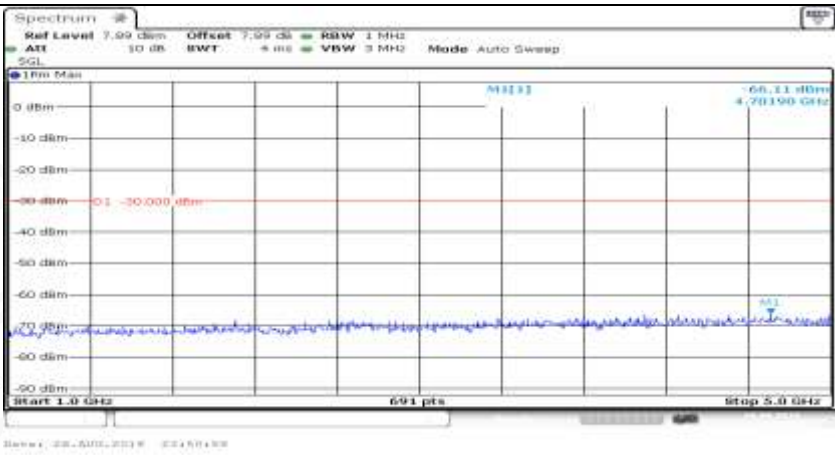
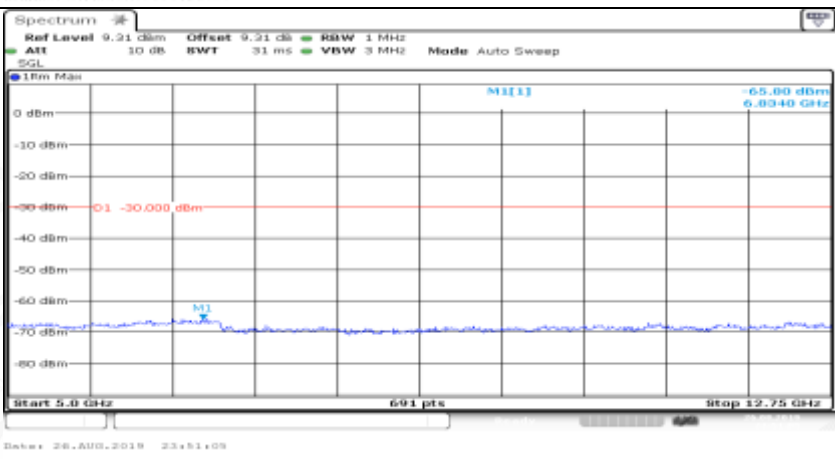
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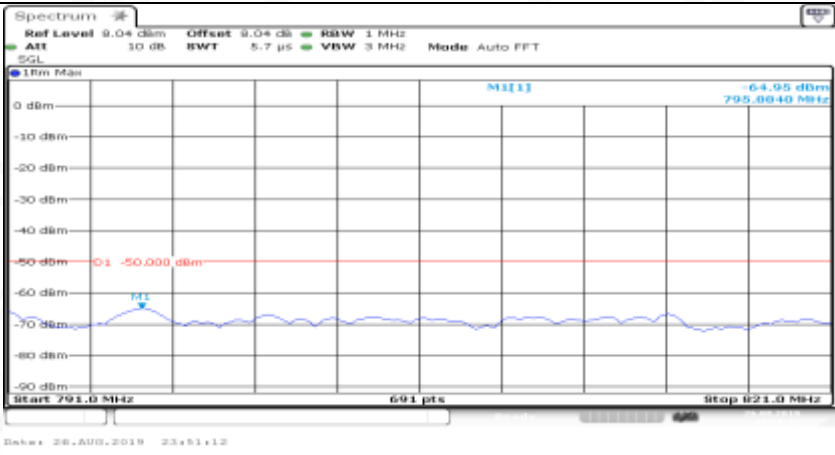
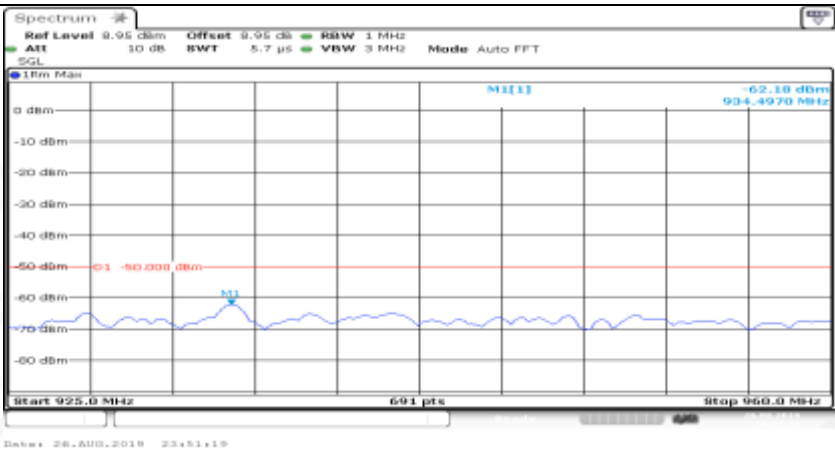

Co-existence	
Co-existence	
Co-existence	
Additional	NA


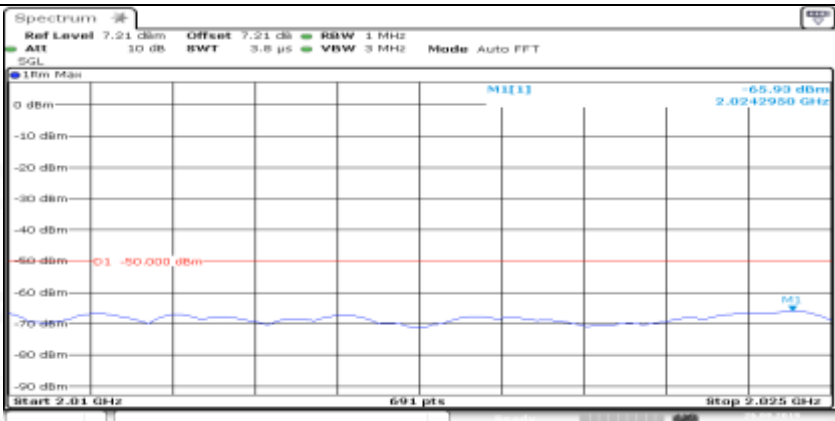
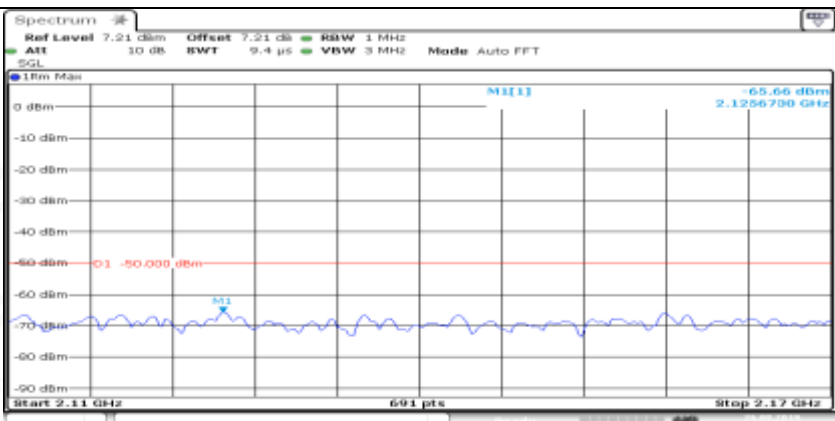
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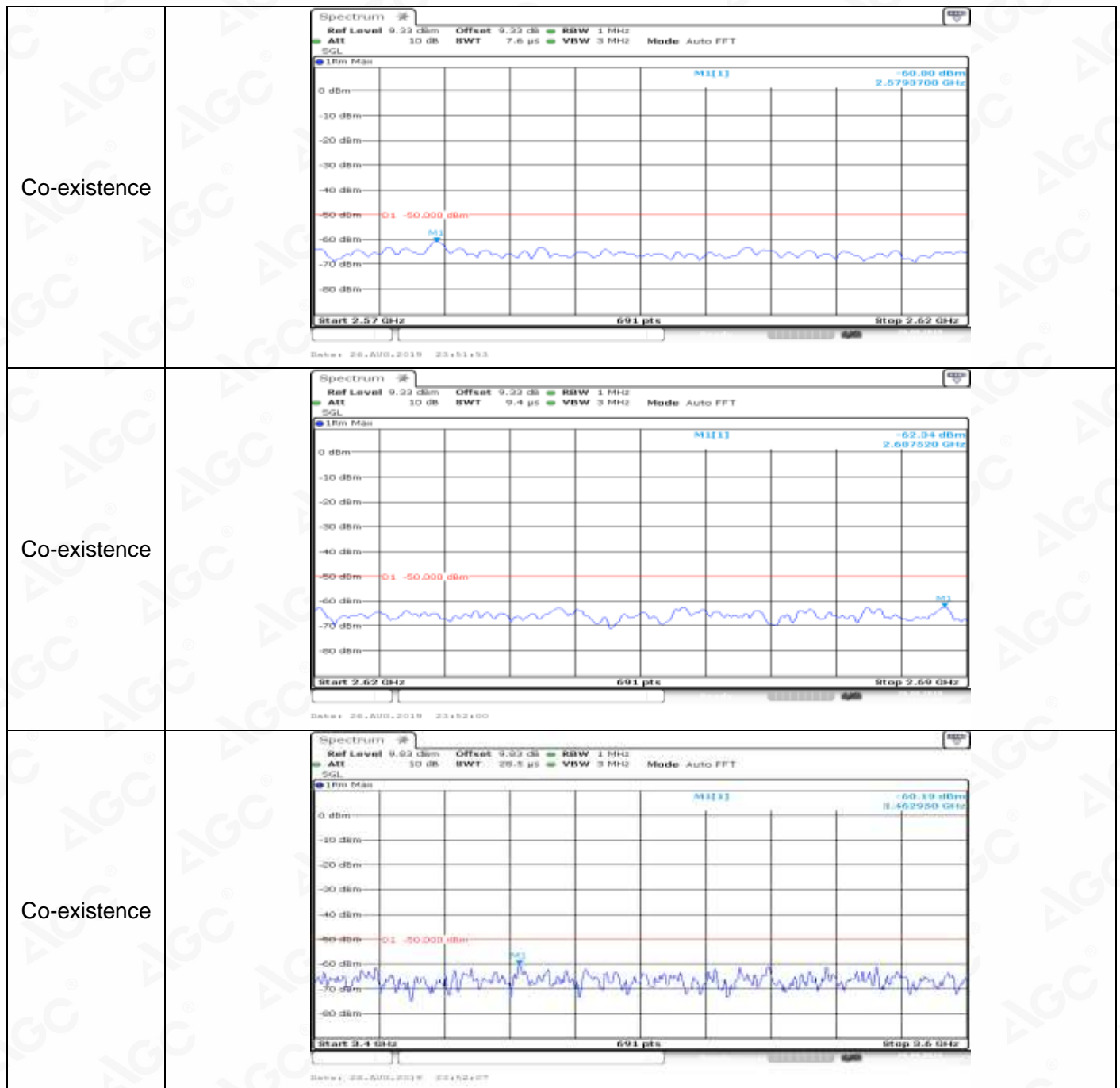
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB RBW 1 kHz ATT 20 dB BW 1.9 ms VBW 3 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 9.0 kHz 691 pts Stop 150.0 kHz</p> <p>Ref: 28.AUG.2019 23:50:27</p>
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB RBW 10 kHz ATT 20 dB BW 1.3 ms VBW 30 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 150.0 kHz 691 pts Stop 300.0 MHz</p> <p>Ref: 28.AUG.2019 23:50:27</p>
General	 <p>Ref Level 9.72 dBm Offset 9.72 dB RBW 100 kHz ATT 30 dB BW 872.3 us VBW 300 kHz Mode Auto FFT</p> <p>SGL</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 300.0 MHz 691 pts Stop 804.45 MHz</p> <p>Ref: 28.AUG.2019 23:50:28</p>

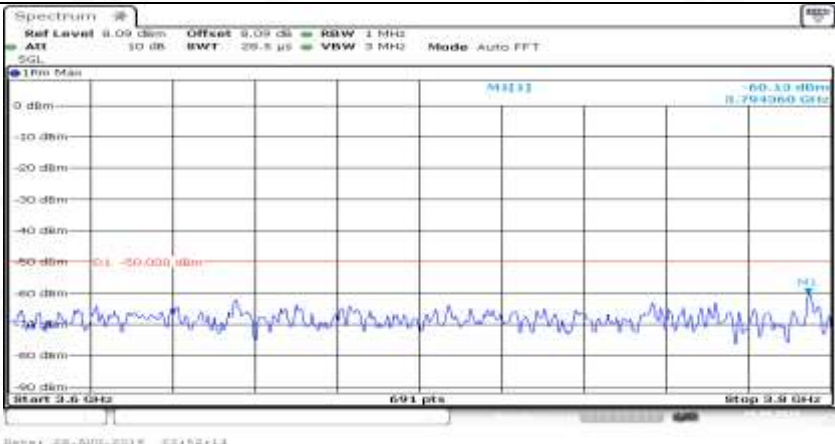


General	
General	
General	

Co-existence	
Co-existence	
Co-existence	

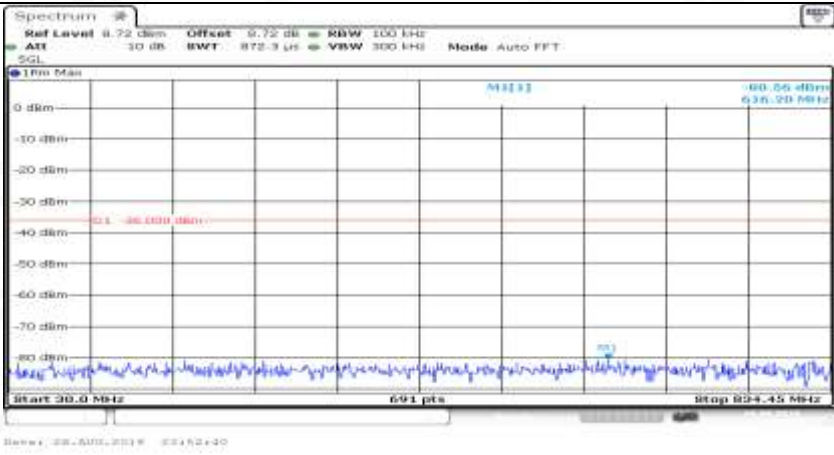
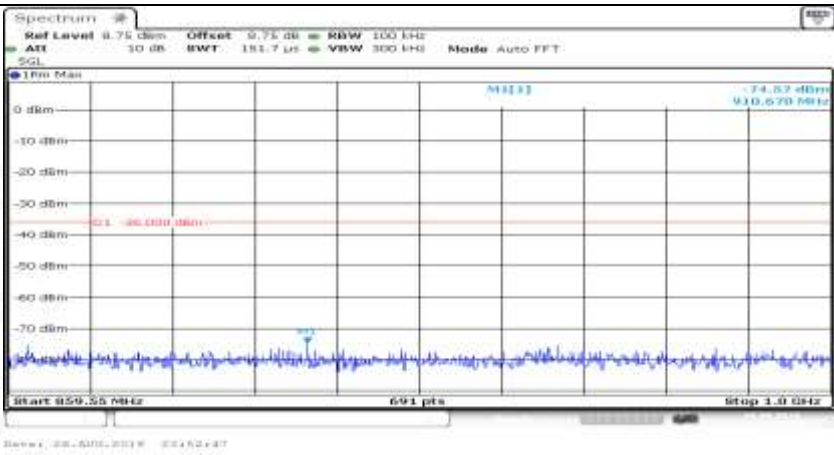
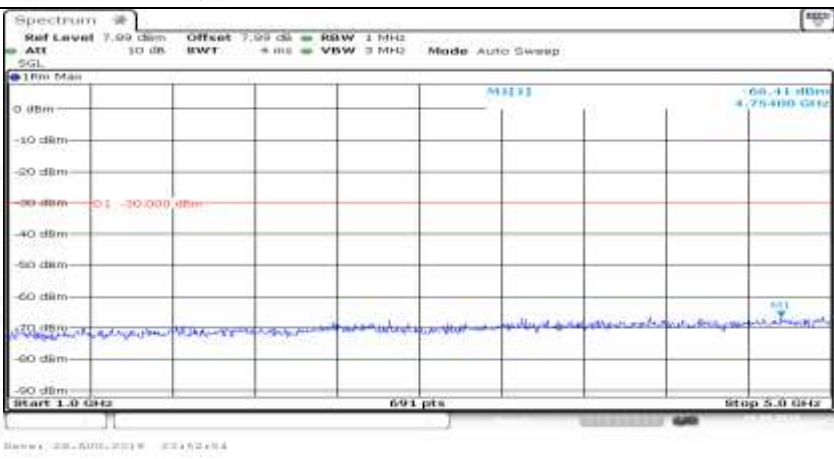
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>15m Max</p> <p>M1[1] -66.02 dBm 1.9024170 GHz</p> <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 26.AUG.2019 23:51:32</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz ATT 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT</p> <p>15m Max</p> <p>M1[1] -65.93 dBm 2.0242950 GHz</p> <p>Start 2.01 GHz 691 pts Stop 2.025 GHz</p> <p>Date: 26.AUG.2019 23:51:39</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>15m Max</p> <p>M1[1] -65.66 dBm 2.1256790 GHz</p> <p>Start 2.11 GHz 691 pts Stop 2.17 GHz</p> <p>Date: 26.AUG.2019 23:51:46</p>



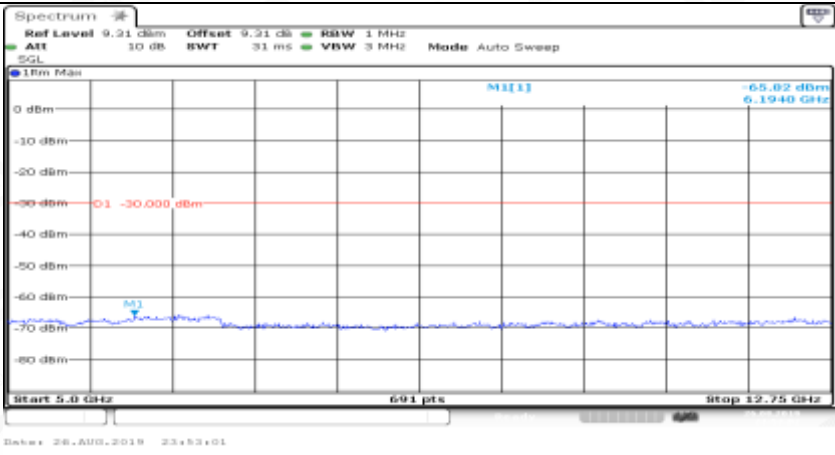
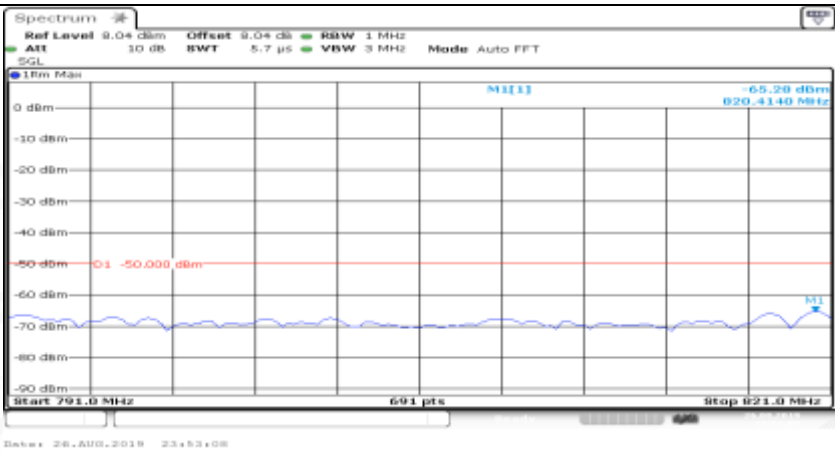
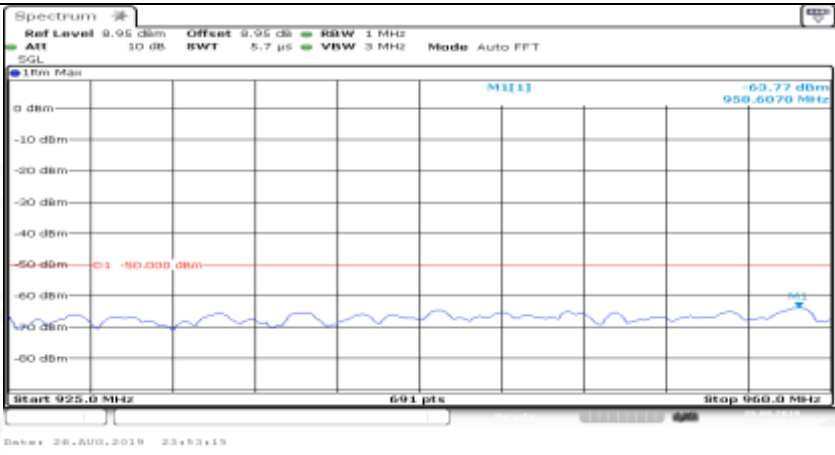
Co-existence	
Additional	NA


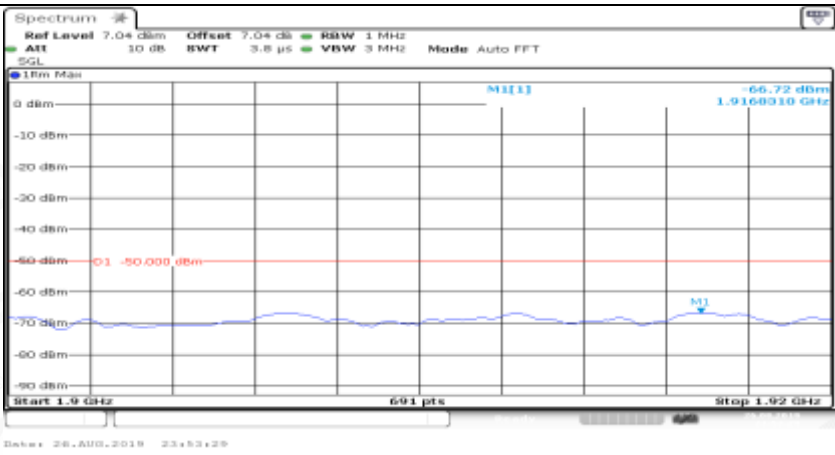
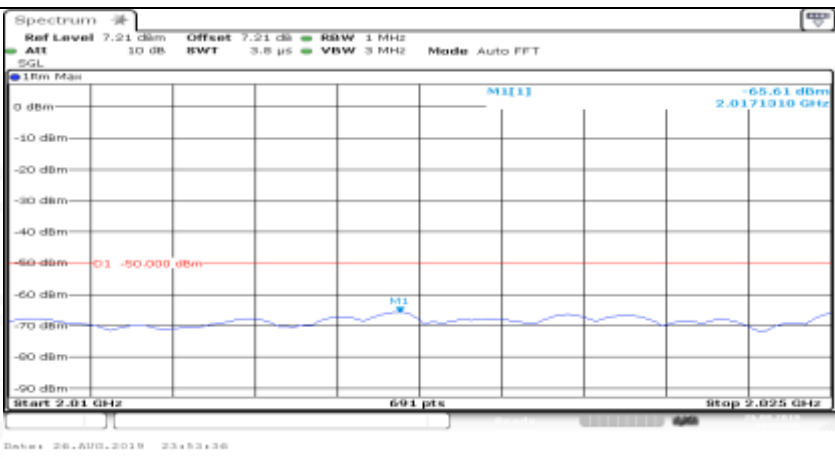
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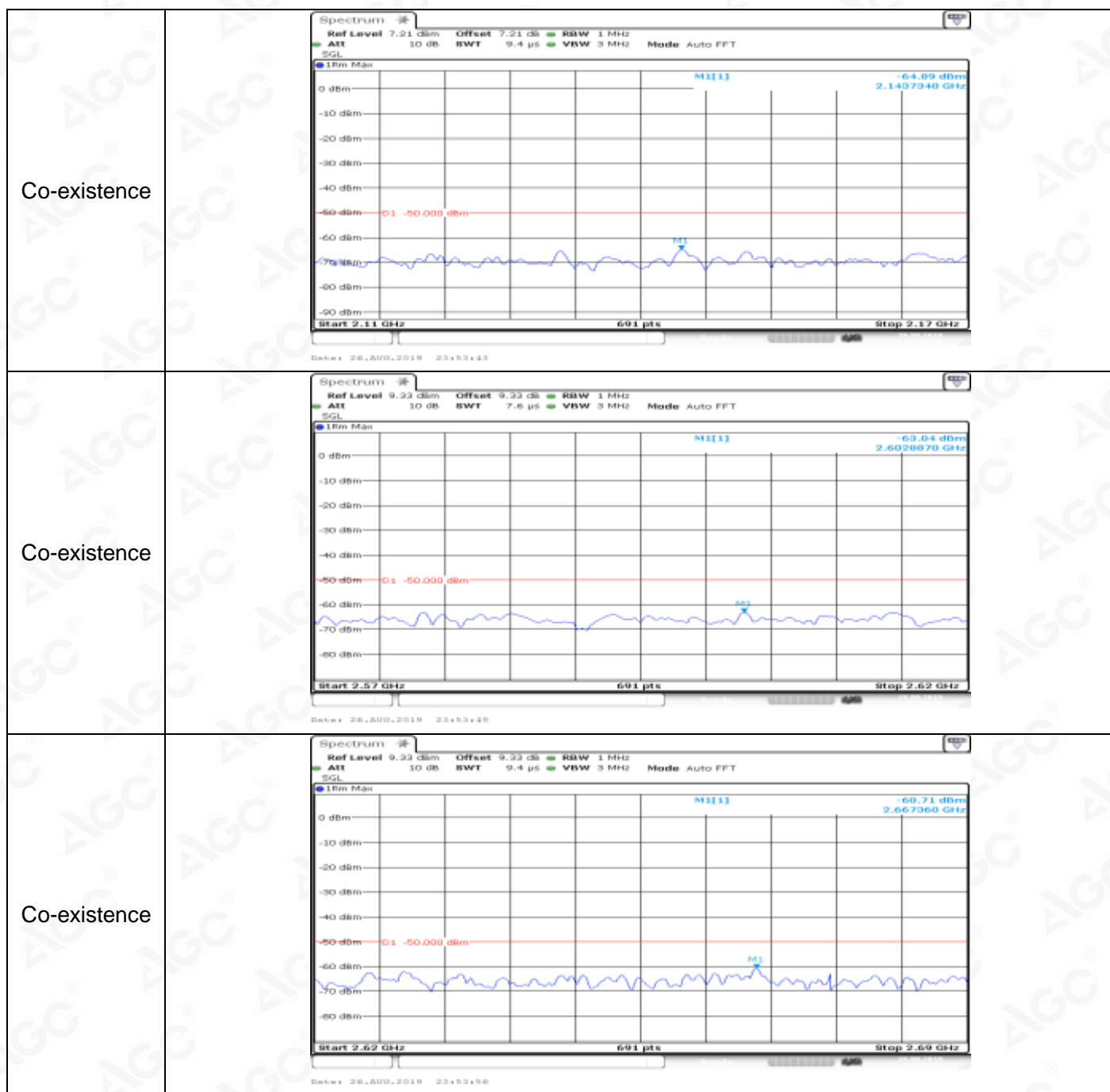
General	
General	

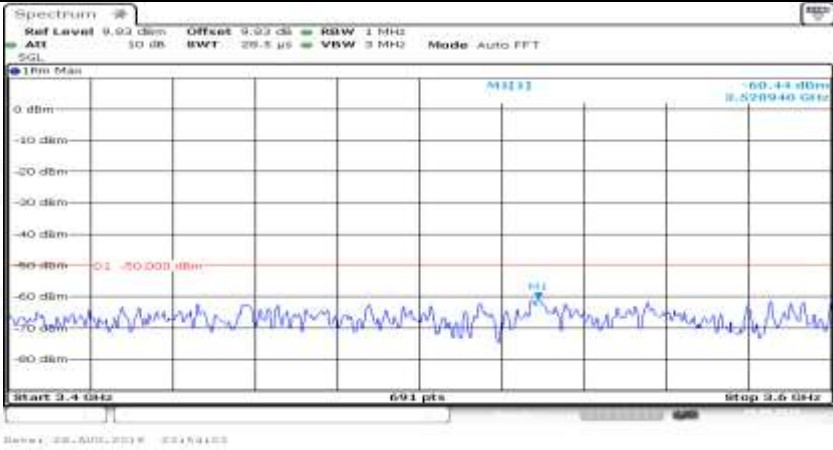
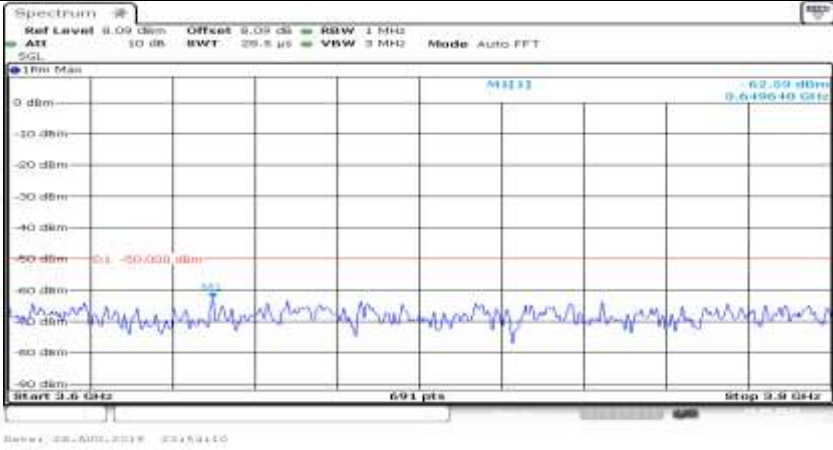
General	 <p>Spectrum plot showing a signal at 636.20 MHz. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 30.0 MHz to 824.45 MHz. The signal is labeled 'M113' and has a level of -60.56 dBm.</p>
General	 <p>Spectrum plot showing a signal at 910.570 MHz. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 859.55 MHz to 1.0 GHz. The signal is labeled 'M113' and has a level of -74.57 dBm.</p>
General	 <p>Spectrum plot showing a signal at 4.75480 GHz. The plot has a y-axis from 0 dBm to -80 dBm and an x-axis from 1.0 GHz to 5.0 GHz. The signal is labeled 'M113' and has a level of -65.41 dBm.</p>

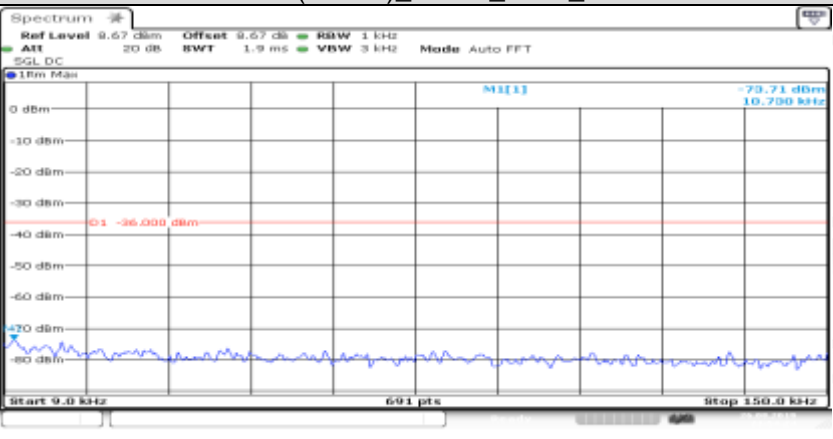


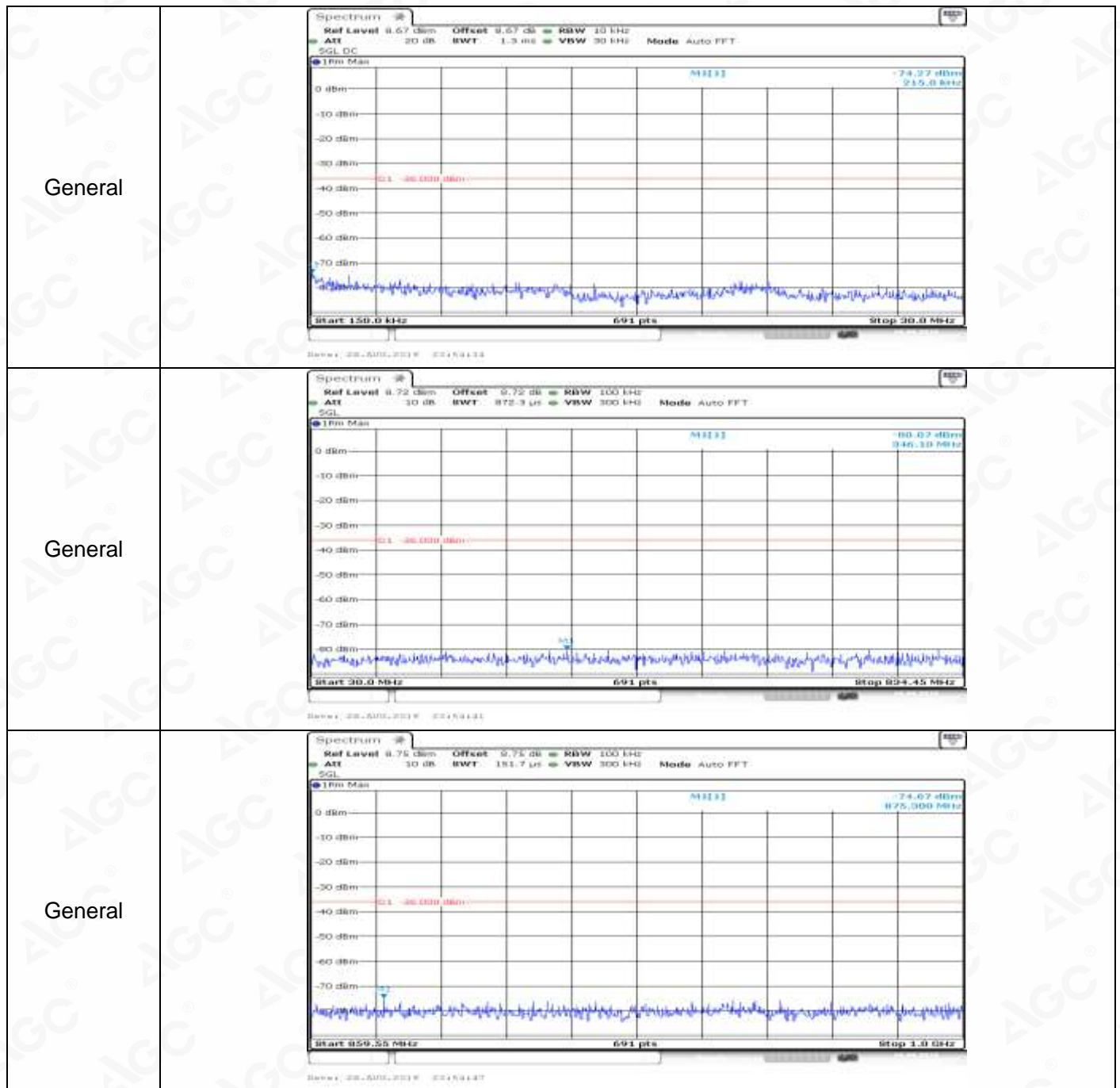
General	
Co-existence	
Co-existence	

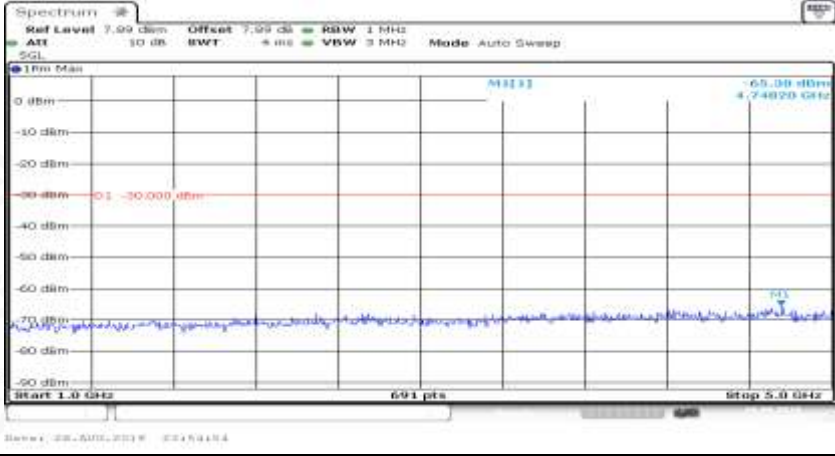
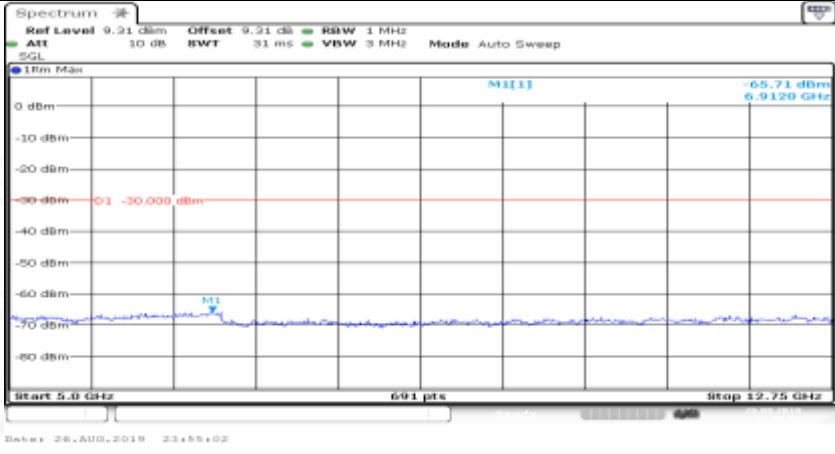
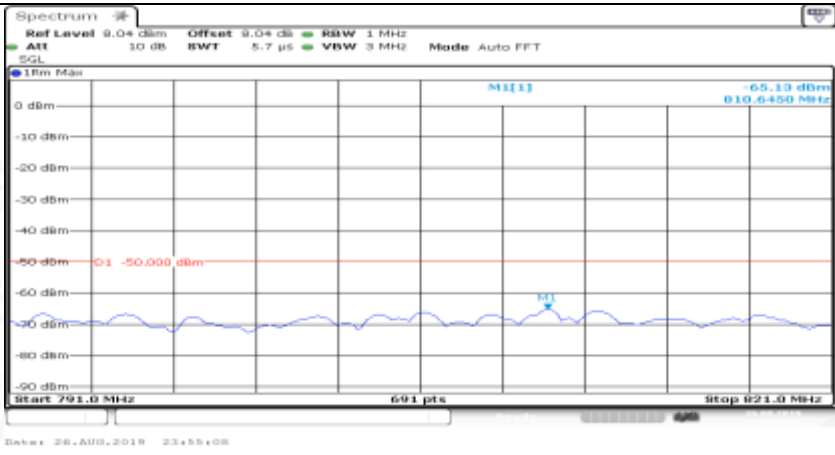
Co-existence	 <p>Spectrum plot showing power spectral density (dBm) versus frequency (GHz). The plot displays a noise floor around -70 dBm. A red line indicates a limit at -50.000 dBm. A peak is labeled M1[1] at -66.79 dBm, 1.820060 GHz.</p>
Co-existence	 <p>Spectrum plot showing power spectral density (dBm) versus frequency (GHz). The plot displays a noise floor around -70 dBm. A red line indicates a limit at -50.000 dBm. A peak is labeled M1[1] at -66.72 dBm, 1.9160310 GHz.</p>
Co-existence	 <p>Spectrum plot showing power spectral density (dBm) versus frequency (GHz). The plot displays a noise floor around -70 dBm. A red line indicates a limit at -50.000 dBm. A peak is labeled M1[1] at -65.61 dBm, 2.0171910 GHz.</p>

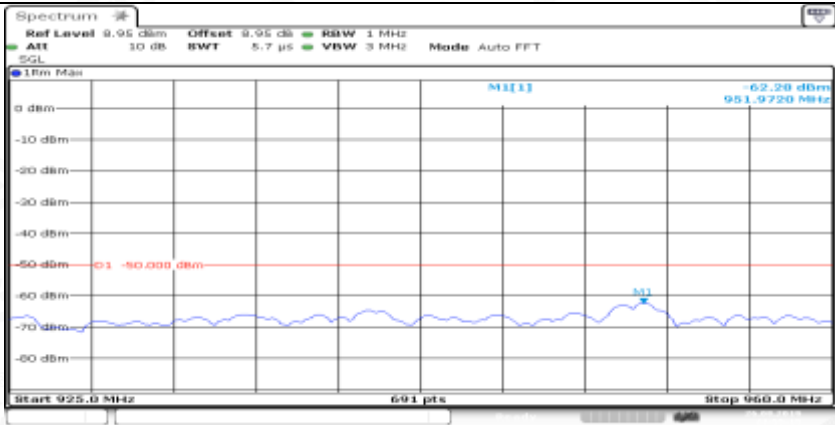
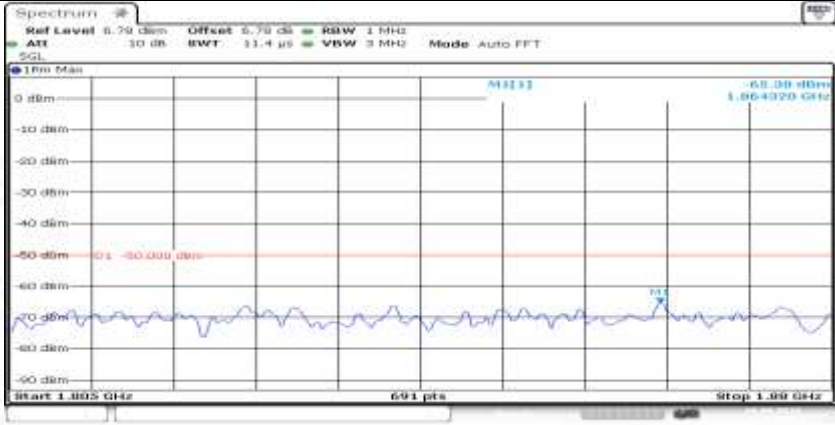
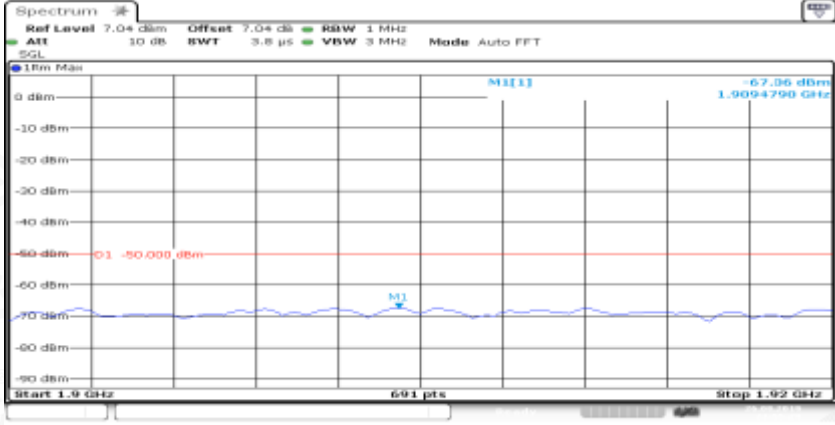


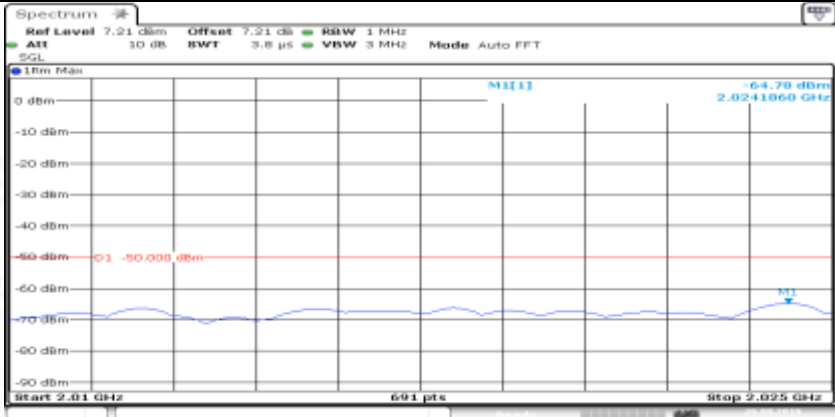
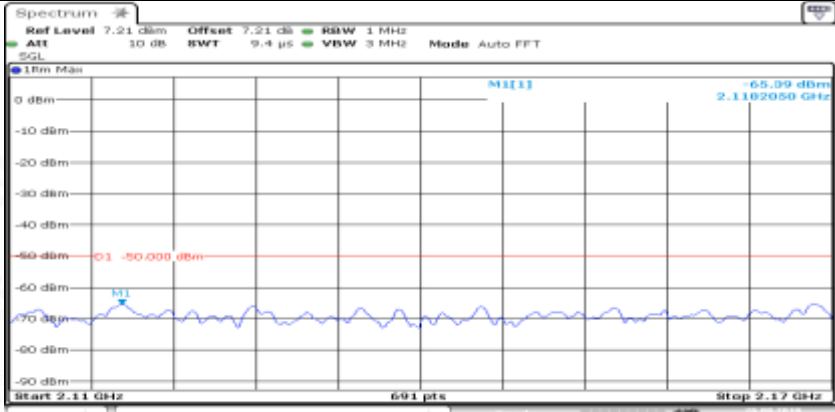
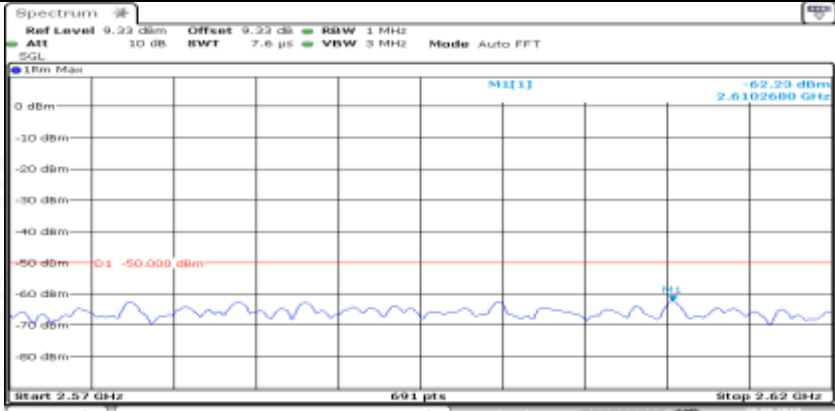
Co-existence	
Co-existence	
Additional	NA

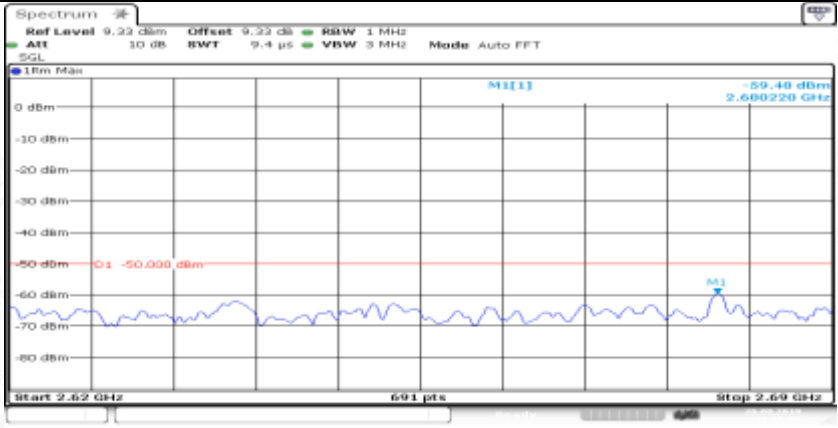
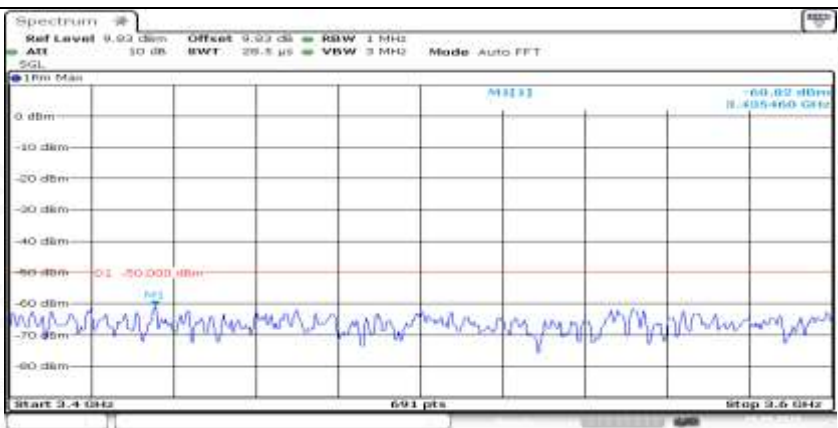
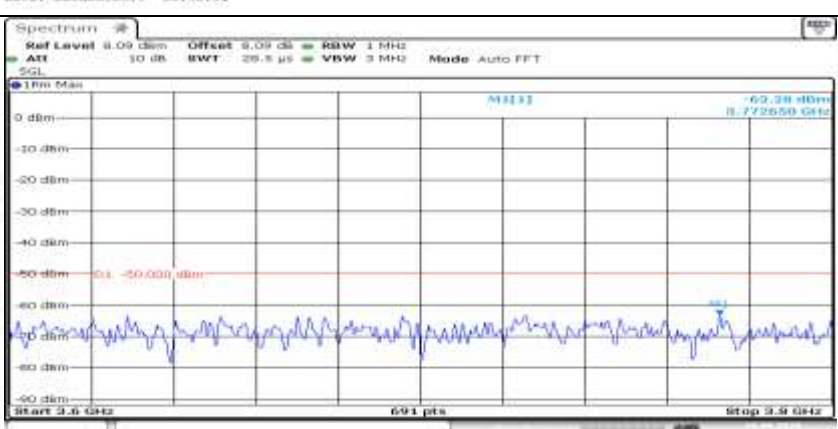
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	



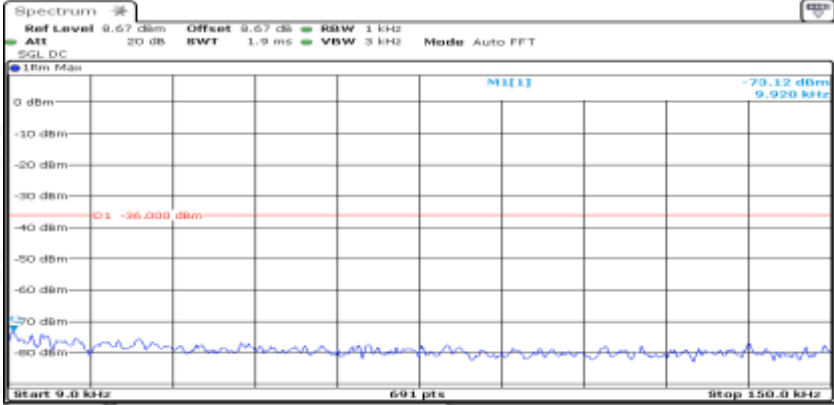
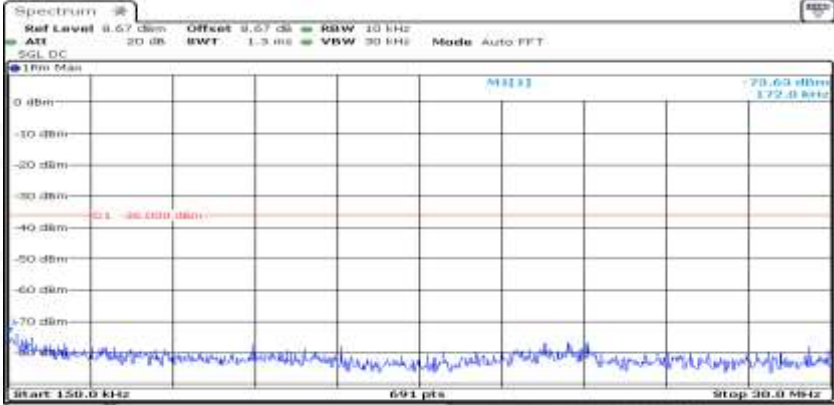
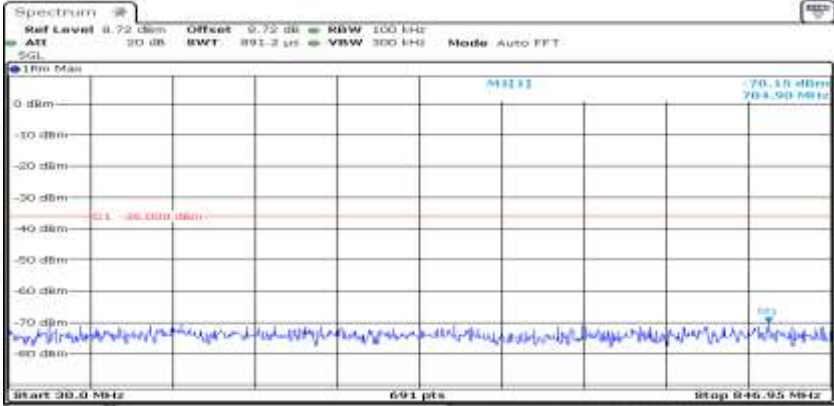
General	
General	
Co-existence	

Co-existence	 <p>Start 925.0 MHz 691 pts Stop 950.0 MHz</p> <p>Date: 28.AUG.2019 23:55:19</p>
Co-existence	 <p>Start 1.005 GHz 691 pts Stop 1.01 GHz</p> <p>Date: 28.AUG.2019 23:55:22</p>
Co-existence	 <p>Start 1.9 GHz 691 pts Stop 1.92 GHz</p> <p>Date: 28.AUG.2019 23:55:29</p>

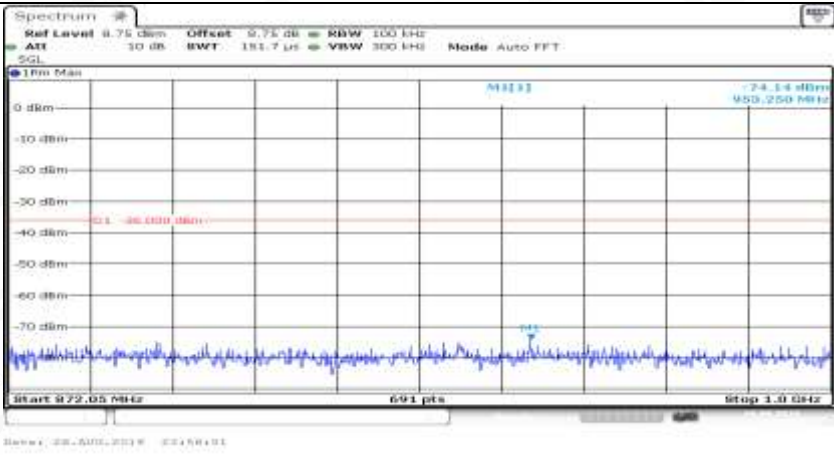
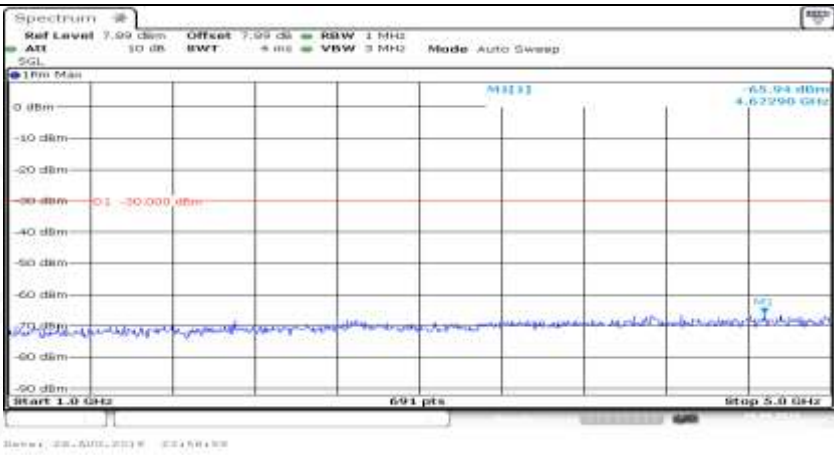
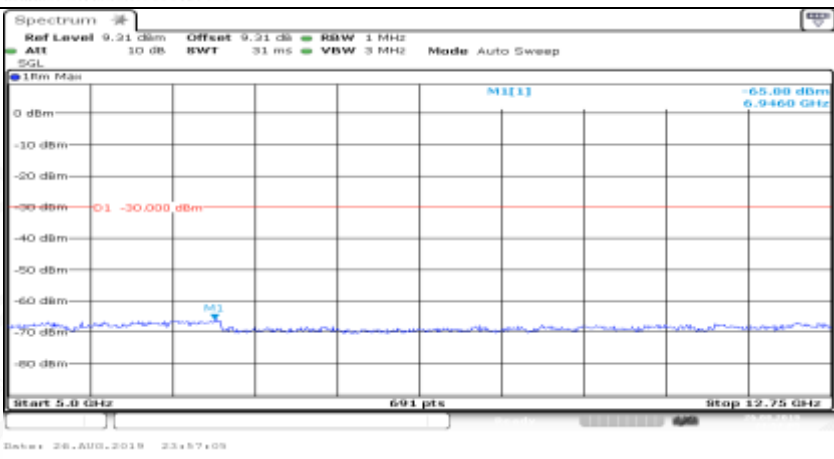
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz Att 10 dB BW 3.8 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 2.01 GHz 691 pts Stop 2.025 GHz Date: 26.AUG.2019 23:55:36</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz Att 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 2.11 GHz 691 pts Stop 2.17 GHz Date: 26.AUG.2019 23:55:43</p>
Co-existence	 <p>Ref Level 9.22 dBm Offset 9.22 dB RBW 1 MHz Att 10 dB BW 7.6 μs VBW 3 MHz Mode Auto FFT SGL 1Rm Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 2.57 GHz 691 pts Stop 2.62 GHz Date: 26.AUG.2019 23:55:50</p>

Co-existence	 <p>Spectrum</p> <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -59.48 dBm 2.680220 GHz</p> <p>Start 2.62 GHz 691 pts Stop 2.69 GHz</p> <p>Date: 28.AUG.2019 23:55:57</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz ATT 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -60.82 dBm 3.435460 GHz</p> <p>Start 3.4 GHz 691 pts Stop 3.6 GHz</p> <p>Date: 28.AUG.2019 23:56:02</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 8.09 dBm Offset 8.09 dB RBW 1 MHz ATT 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>M1[1] -60.38 dBm 3.722650 GHz</p> <p>Start 3.6 GHz 691 pts Stop 3.8 GHz</p> <p>Date: 28.AUG.2019 23:56:10</p>
Additional	NA

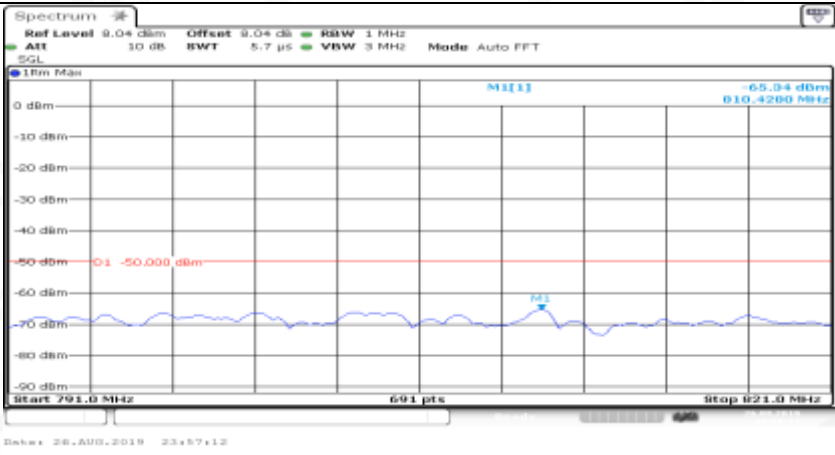
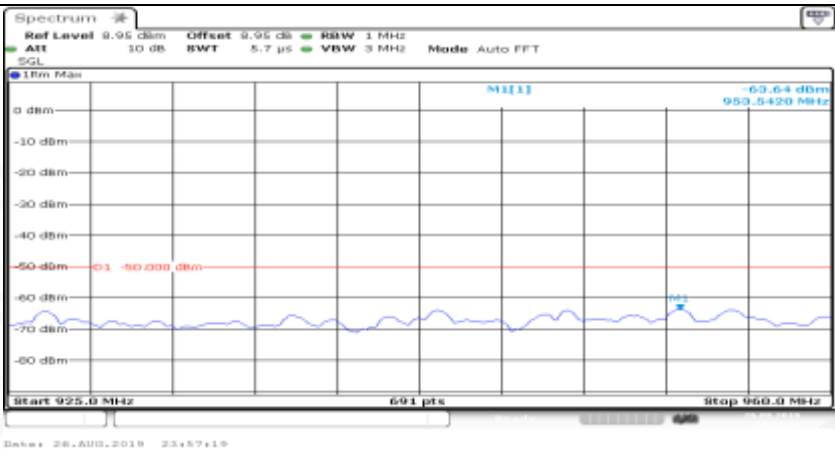
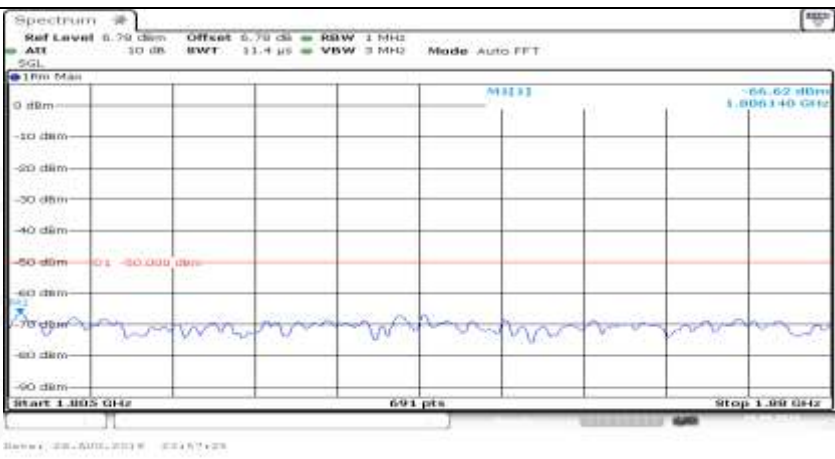
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0

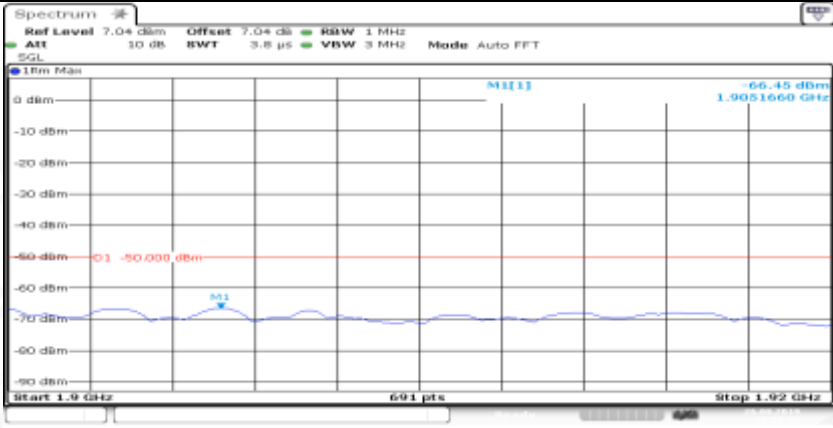
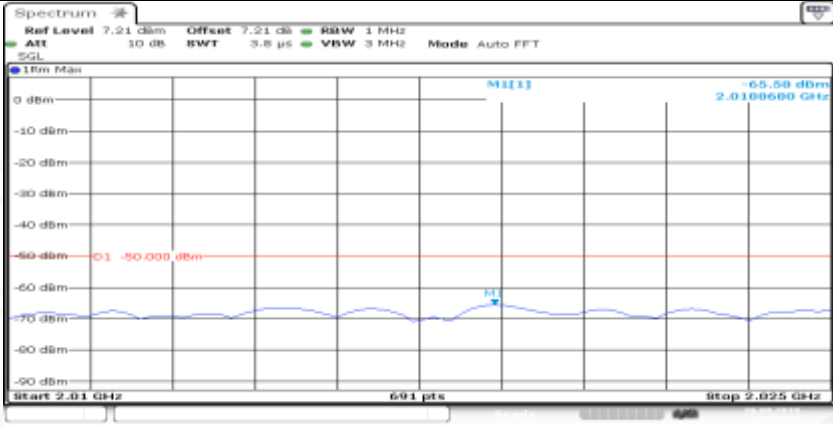
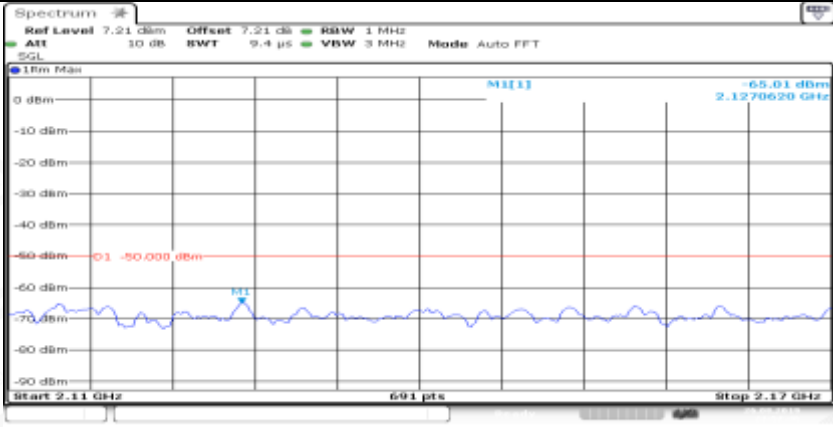
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB RBW 1 kHz ATT 20 dB BW 1.9 ms VBW 3 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm -73.12 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 9.0 kHz 691 pts Stop 150.0 kHz</p> <p>Date: 28.AUG.2019 23:58:24</p>
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB RBW 10 kHz ATT 20 dB BW 1.3 ms VBW 30 kHz Mode Auto FFT</p> <p>SGL DC</p> <p>10m Max</p> <p>0 dBm -73.63 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 150.0 kHz 691 pts Stop 300.0 MHz</p> <p>Date: 28.AUG.2019 23:58:24</p>
General	 <p>Ref Level 9.72 dBm Offset 9.72 dB RBW 100 kHz ATT 20 dB BW 891.2 kHz VBW 300 kHz Mode Auto FFT</p> <p>SGL</p> <p>10m Max</p> <p>0 dBm -70.15 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 300.0 MHz 691 pts Stop 846.95 MHz</p> <p>Date: 28.AUG.2019 23:58:24</p>

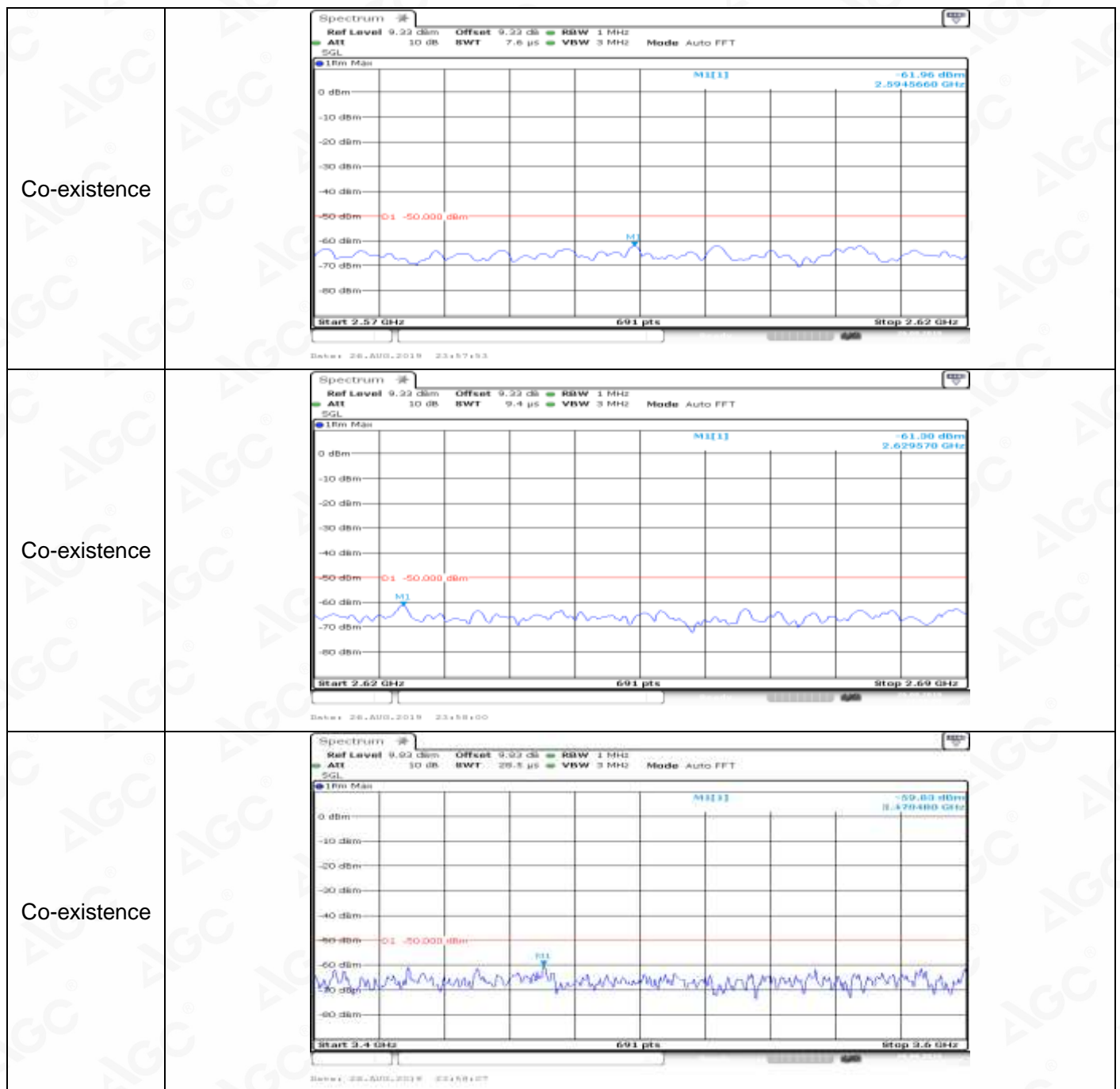


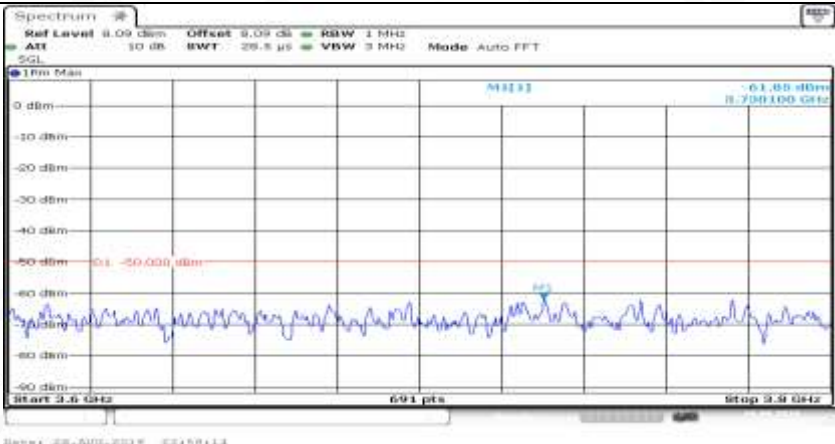
General	
General	
General	



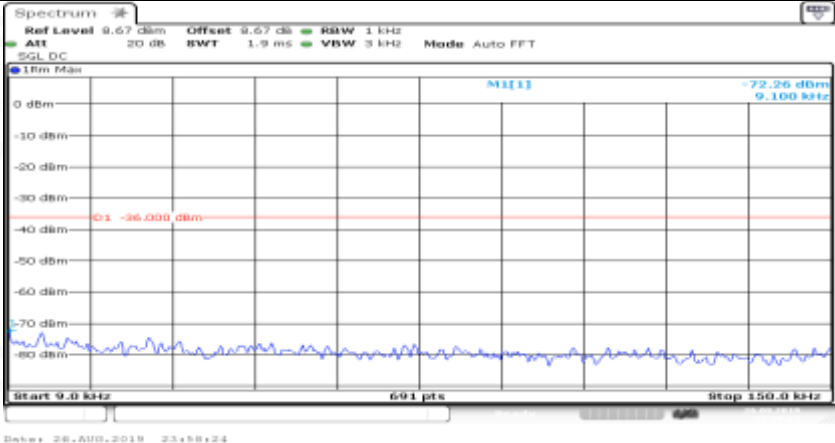
Co-existence	
Co-existence	
Co-existence	

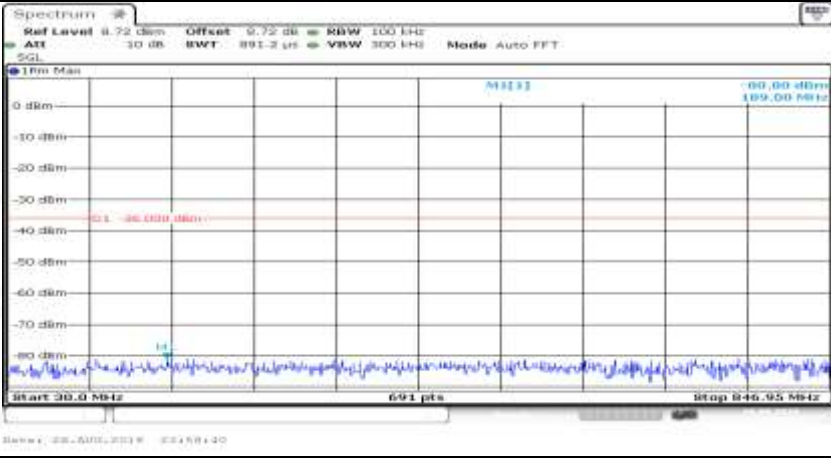
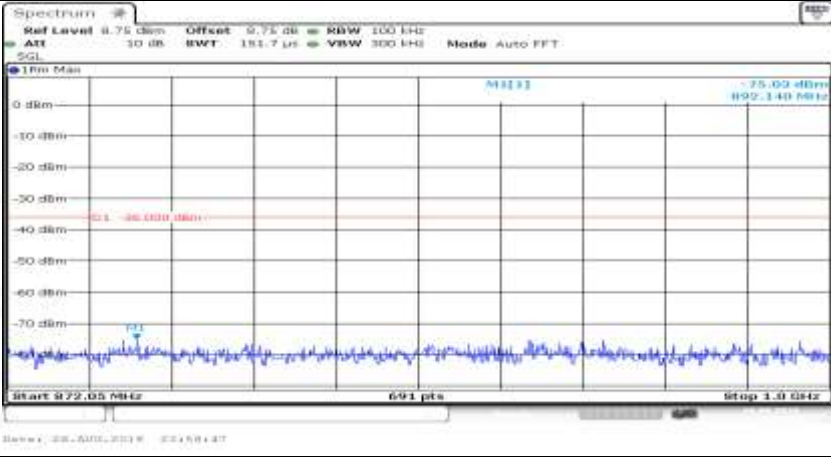
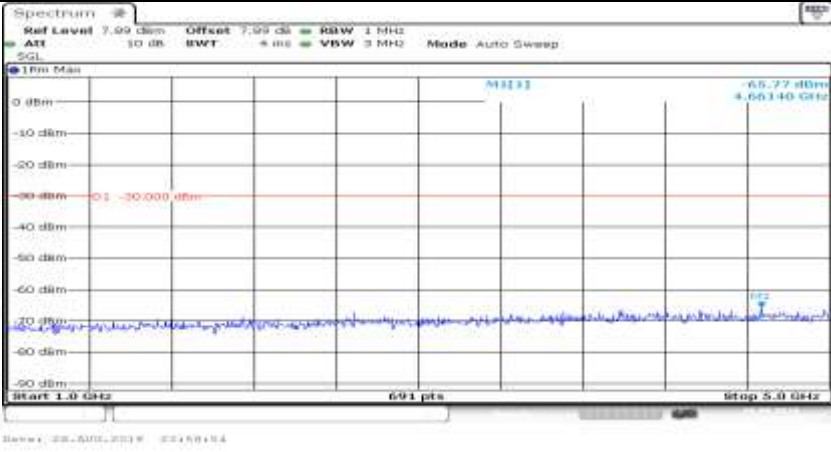
Co-existence	 <p>Spectrum plot showing Co-existence at 1.9 GHz. The plot displays a blue signal line fluctuating around -70 dBm, with a red limit line at -50.000 dBm. The frequency range is from 1.9 GHz to 1.92 GHz. The peak level is -66.45 dBm at 1.9051660 GHz.</p>
Co-existence	 <p>Spectrum plot showing Co-existence at 2.0 GHz. The plot displays a blue signal line fluctuating around -70 dBm, with a red limit line at -50.000 dBm. The frequency range is from 2.0 GHz to 2.025 GHz. The peak level is -65.58 dBm at 2.0100600 GHz.</p>
Co-existence	 <p>Spectrum plot showing Co-existence at 2.1 GHz. The plot displays a blue signal line fluctuating around -70 dBm, with a red limit line at -50.000 dBm. The frequency range is from 2.1 GHz to 2.17 GHz. The peak level is -65.01 dBm at 2.1270620 GHz.</p>



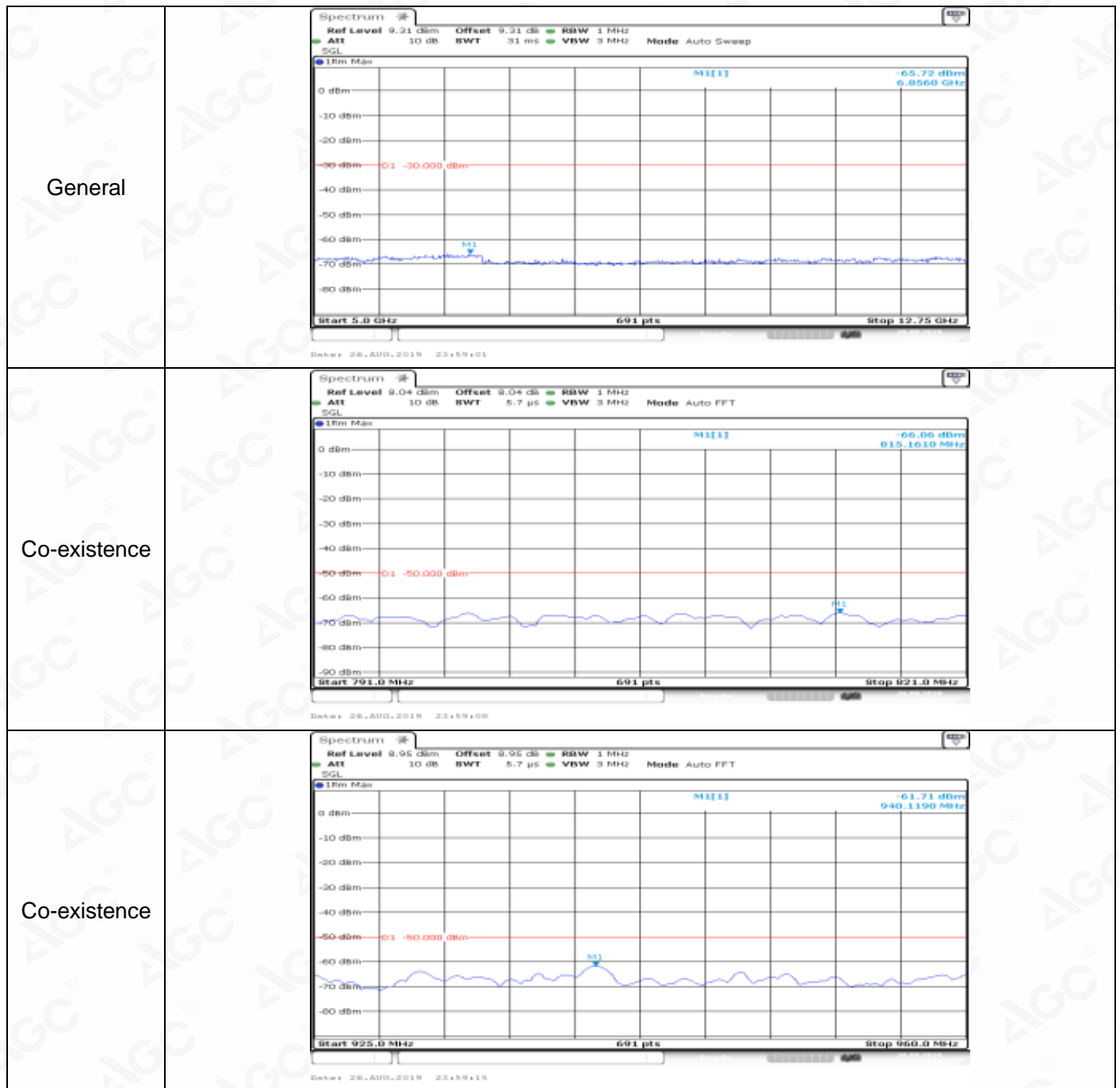
Co-existence	
Additional	NA


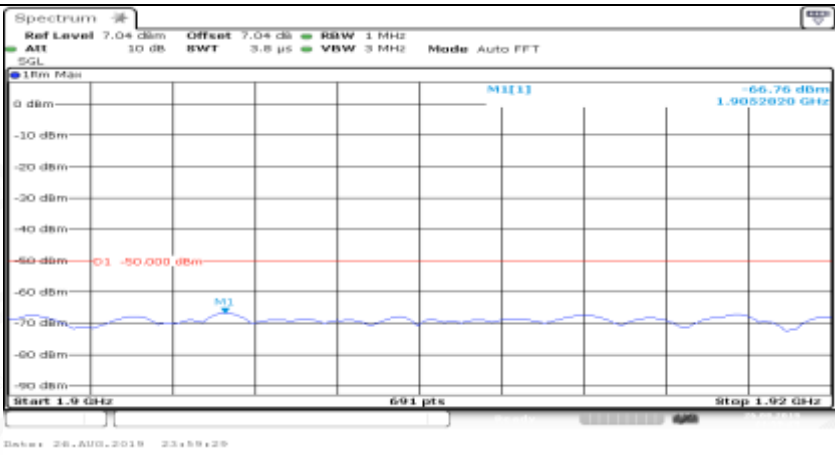
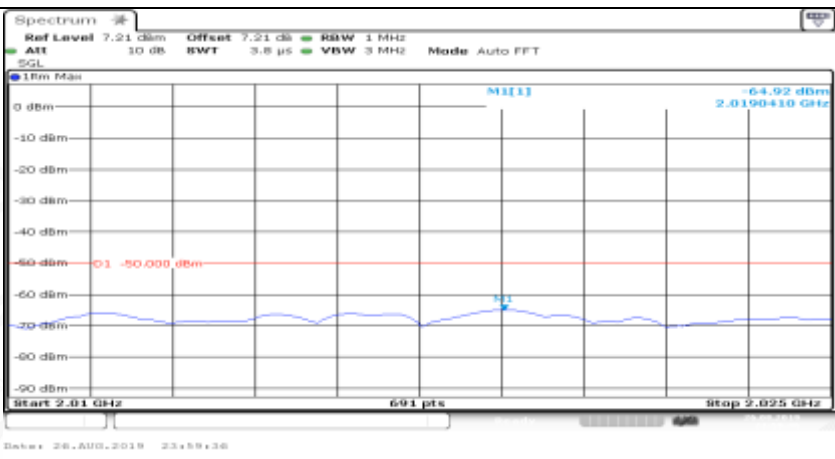
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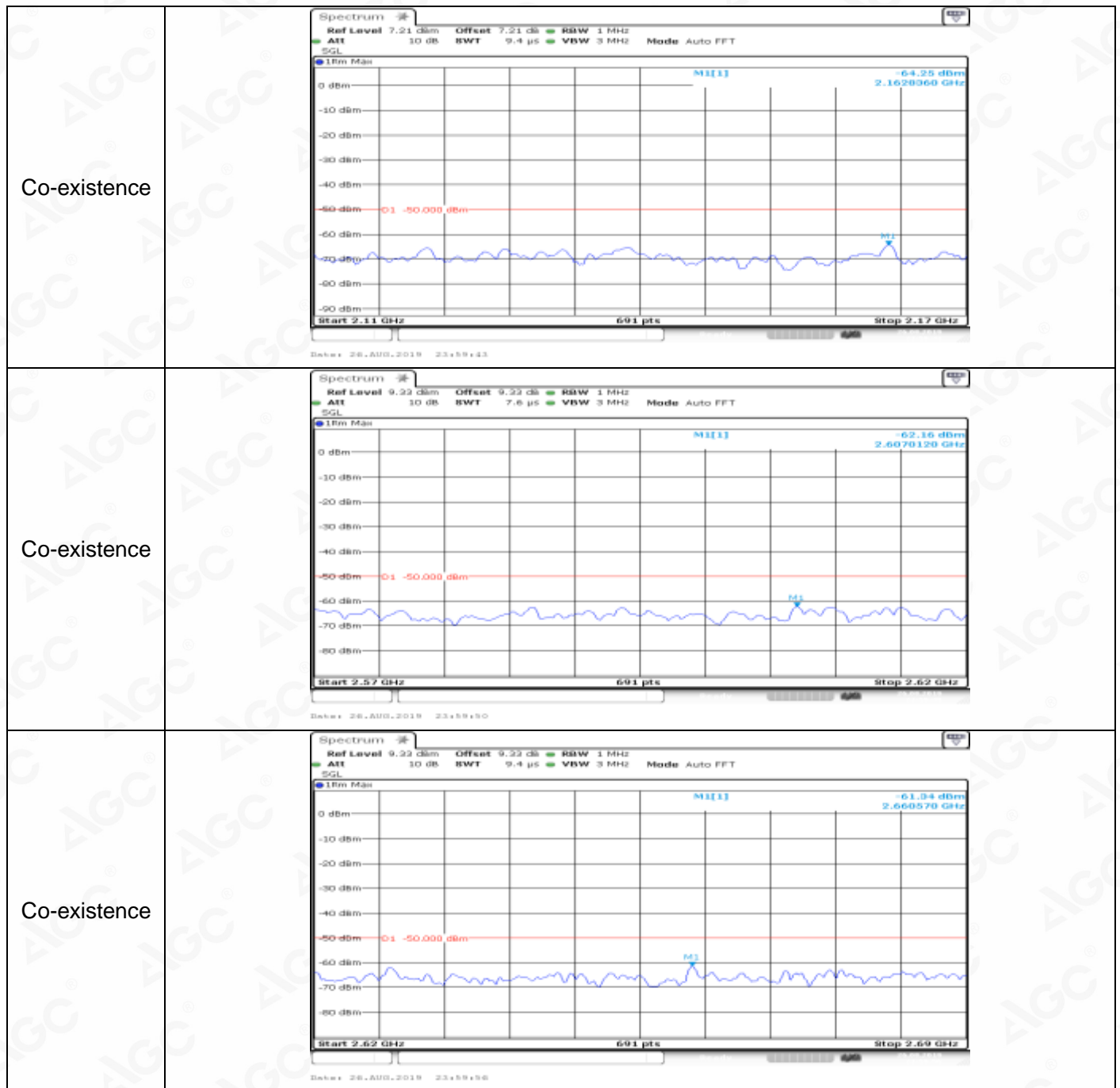
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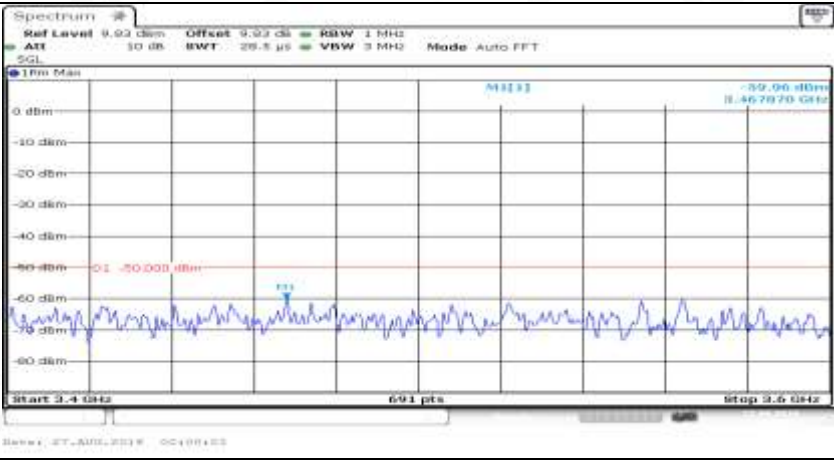

General	
General	
General	

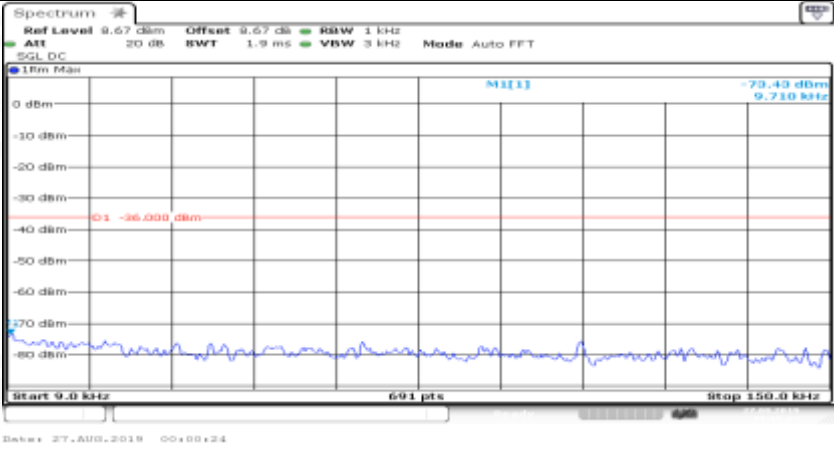


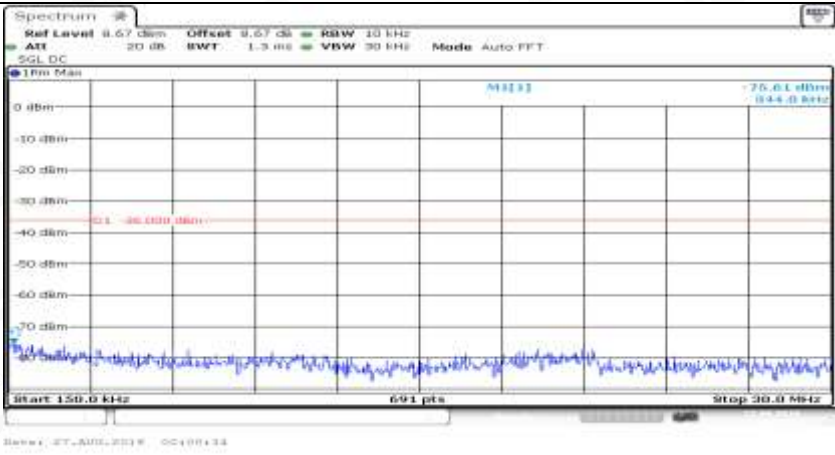
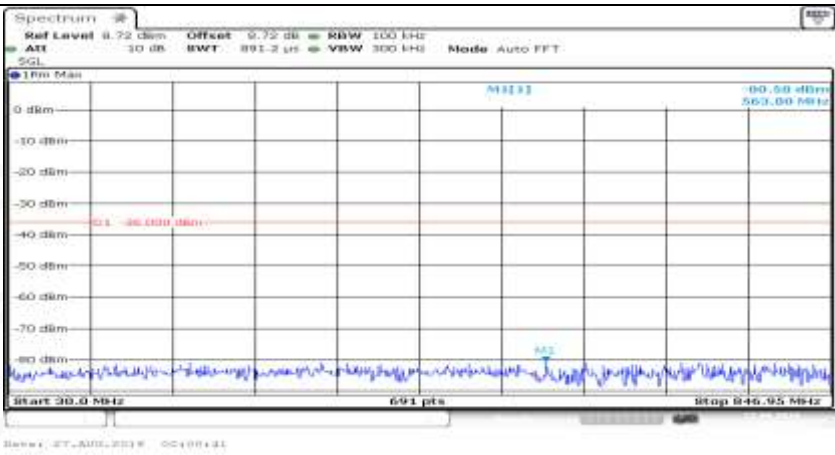
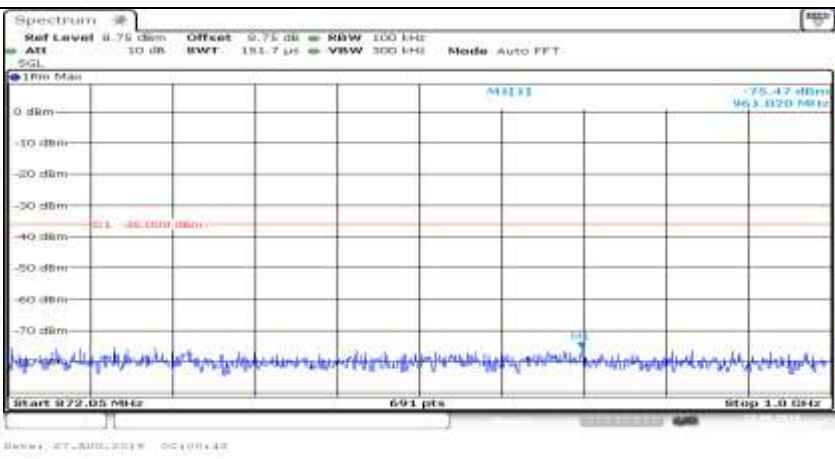


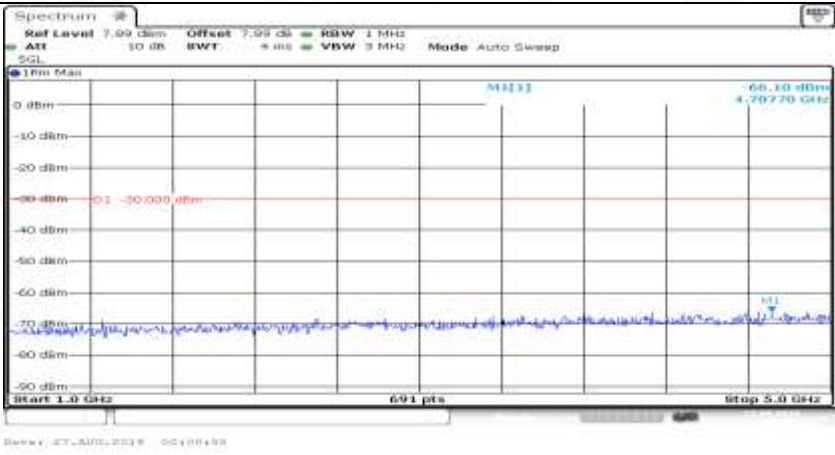
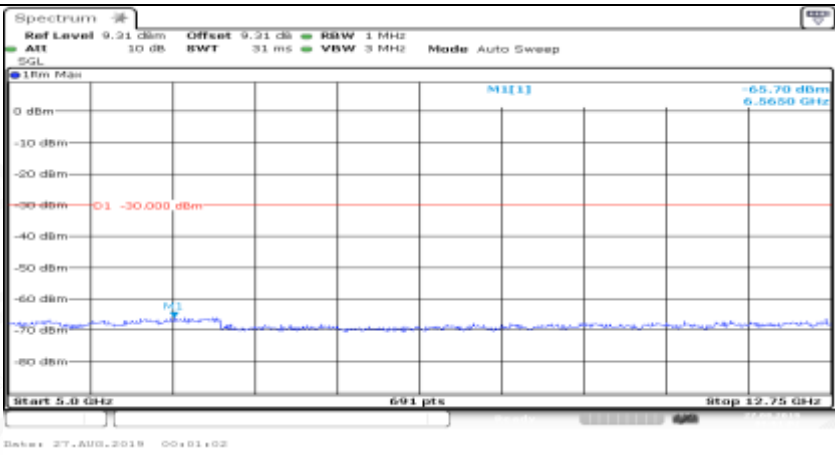
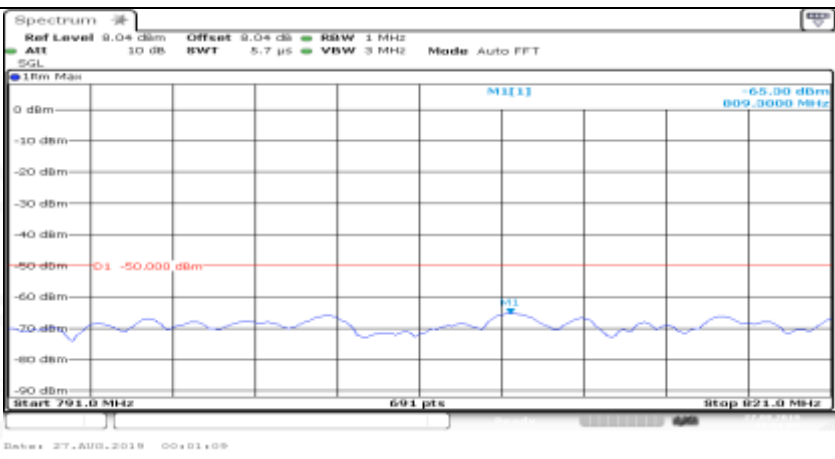
Co-existence	
Co-existence	
Co-existence	

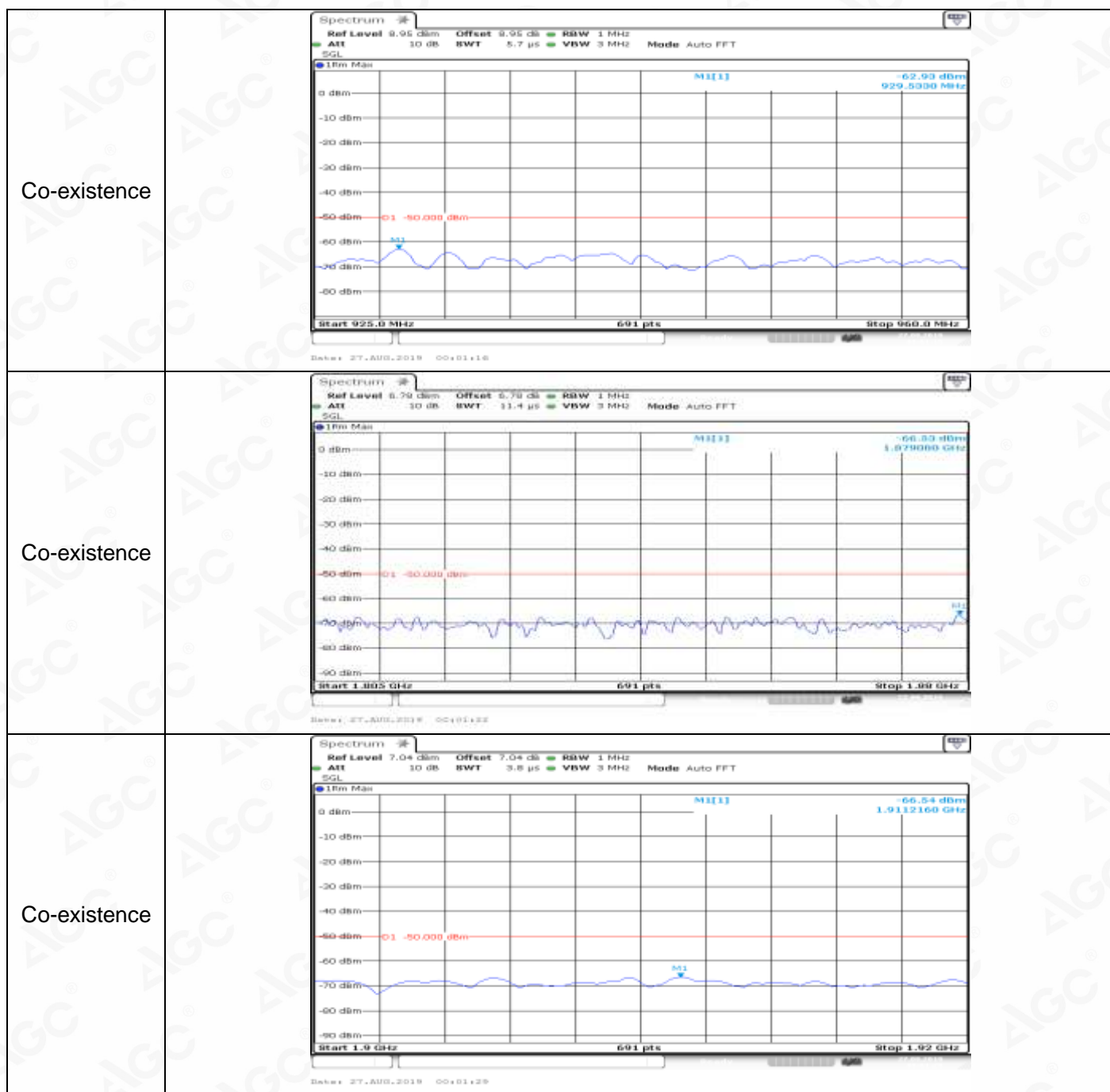


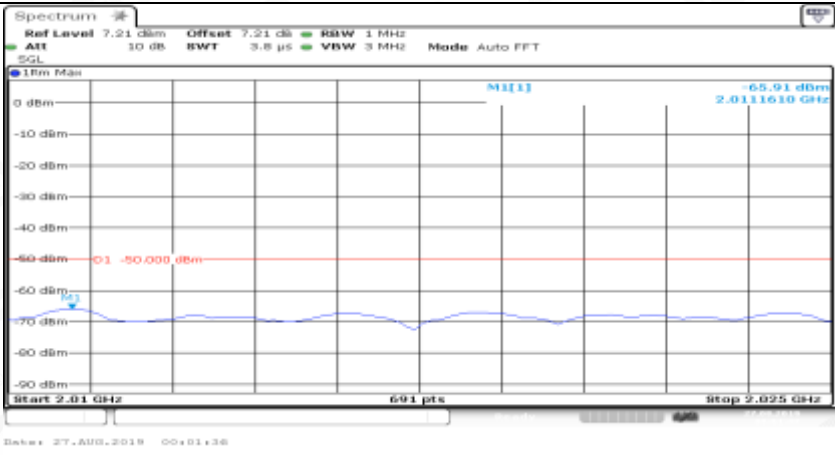
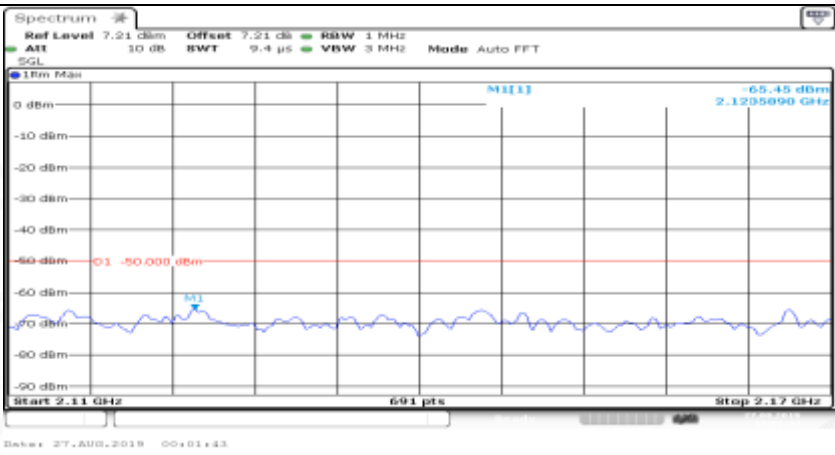
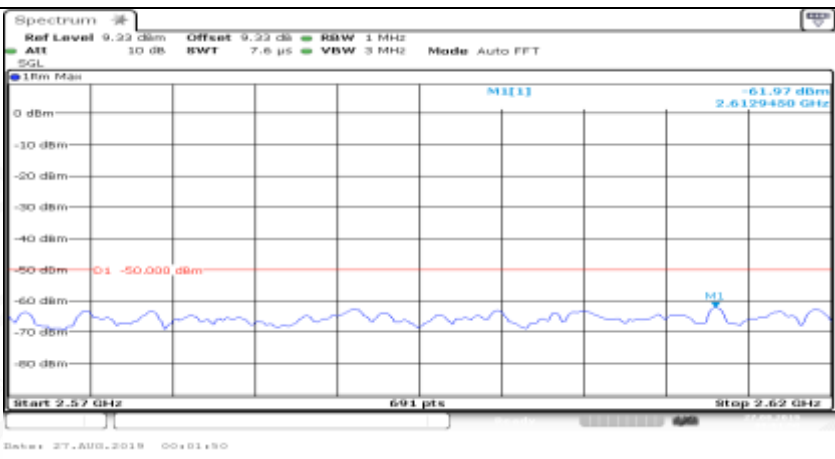
Co-existence	
Co-existence	
Additional	NA

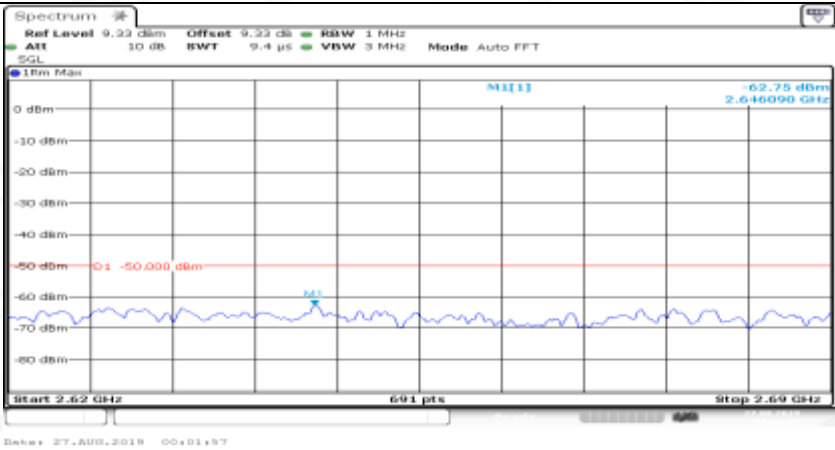
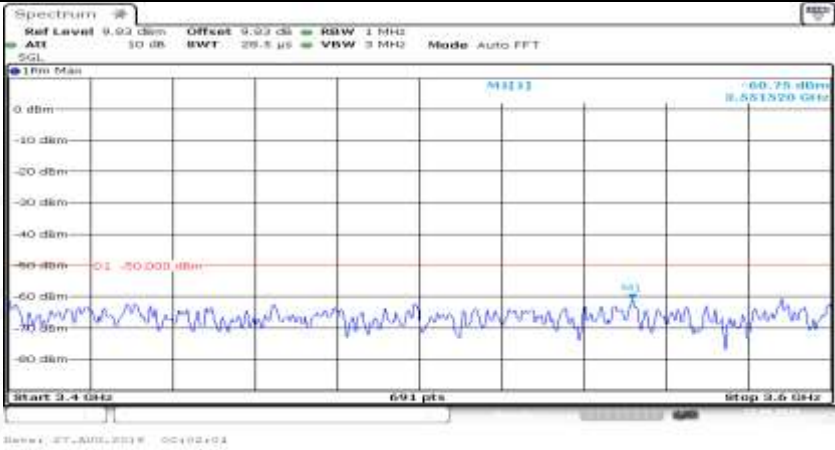
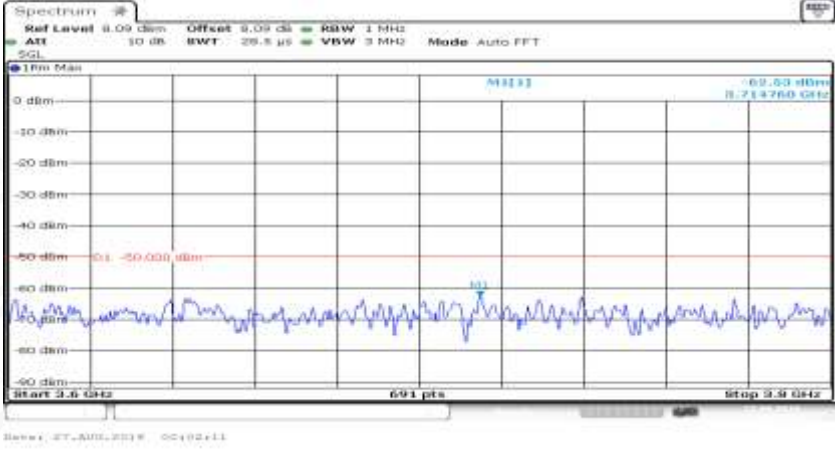
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	

General	
General	
General	

General	
General	
Co-existence	

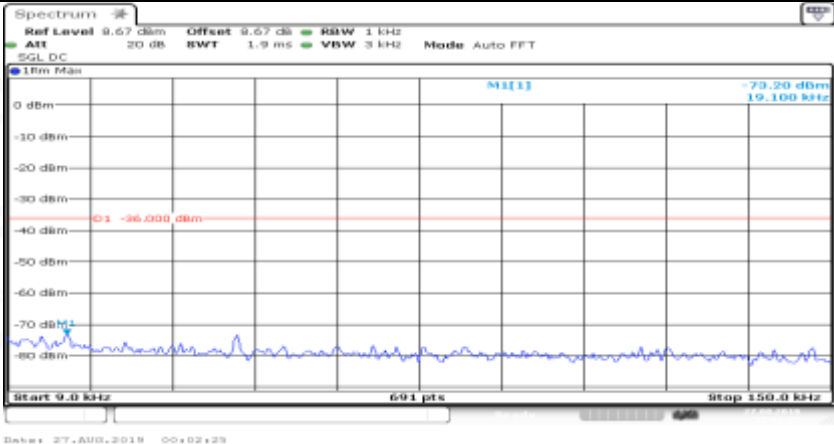
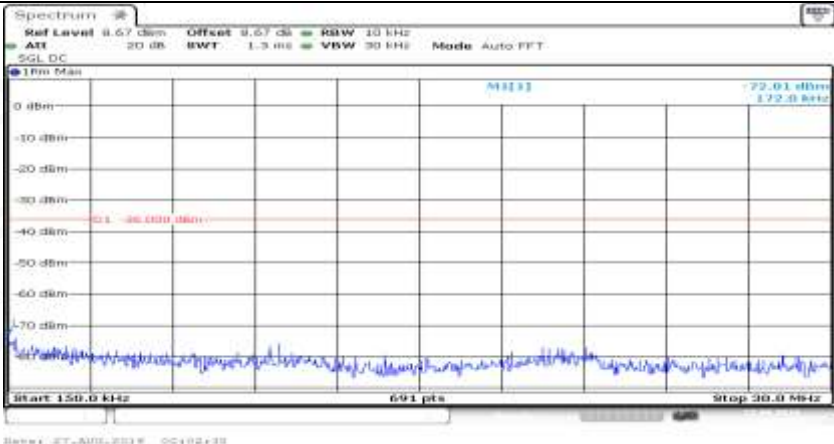
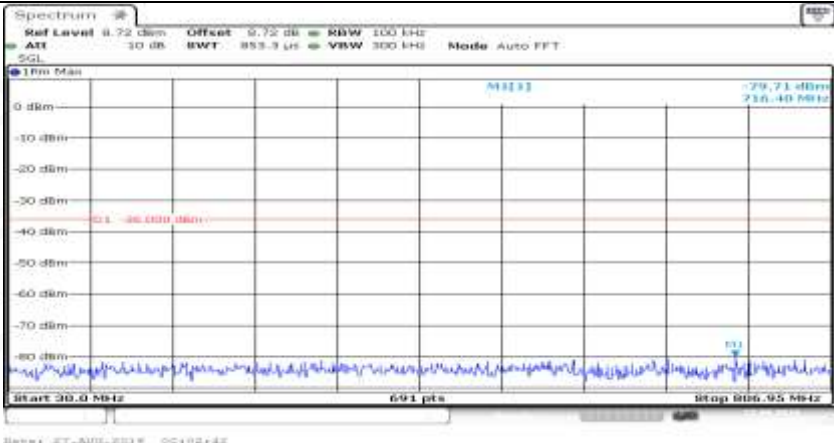


Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (20 MHz)

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0

General	
General	
General	



Attestation of Global Compliance

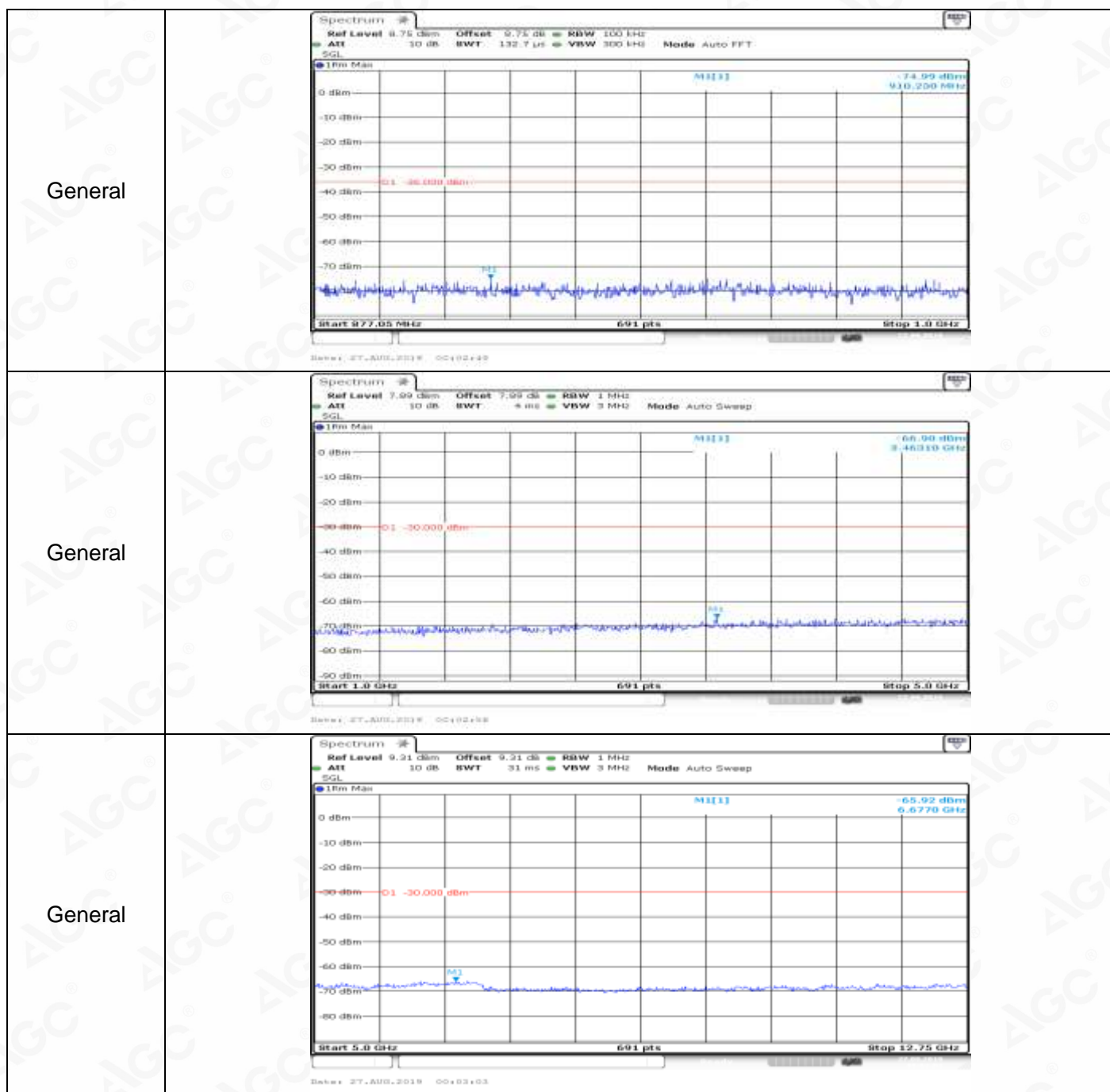
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

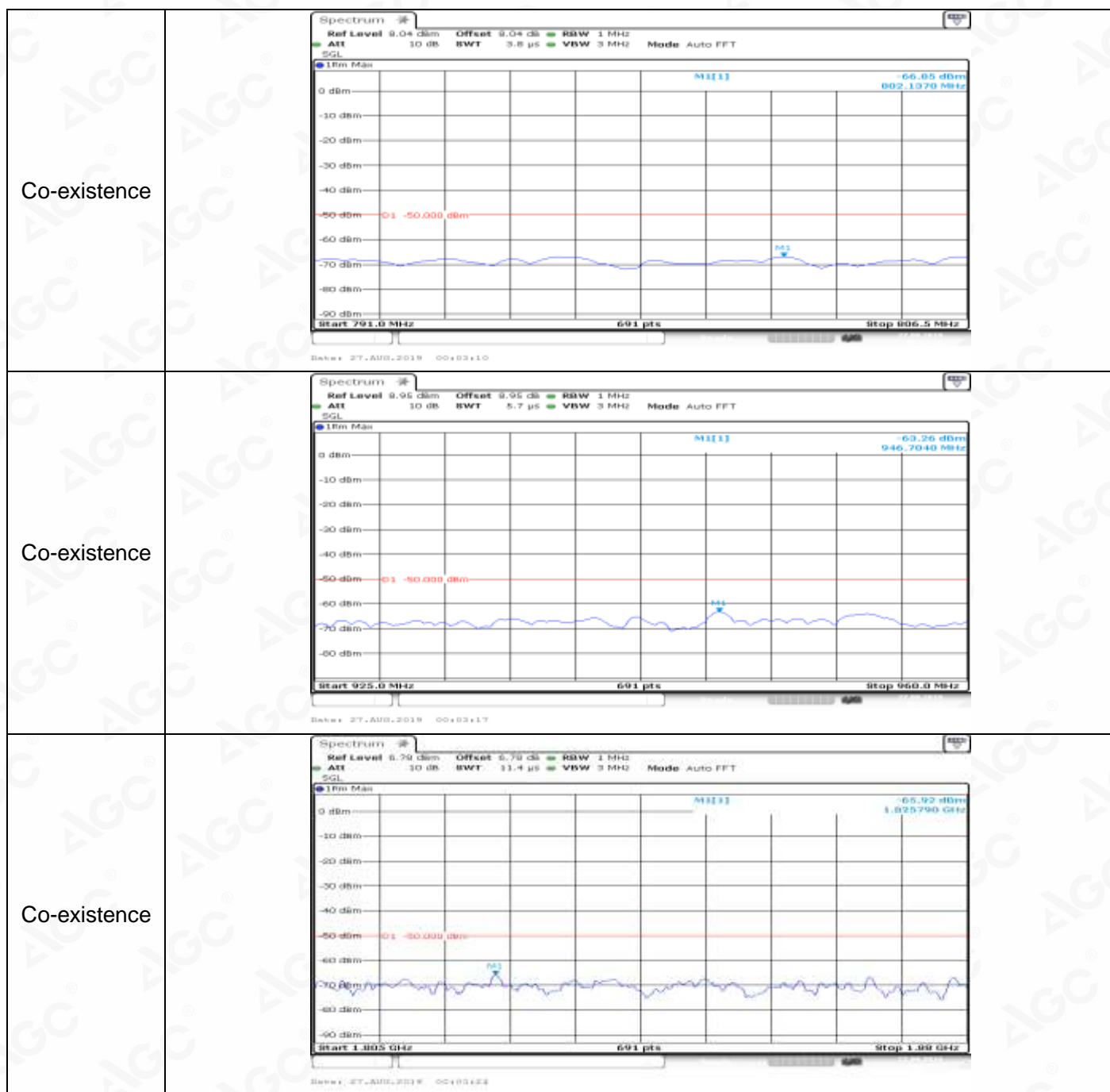
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

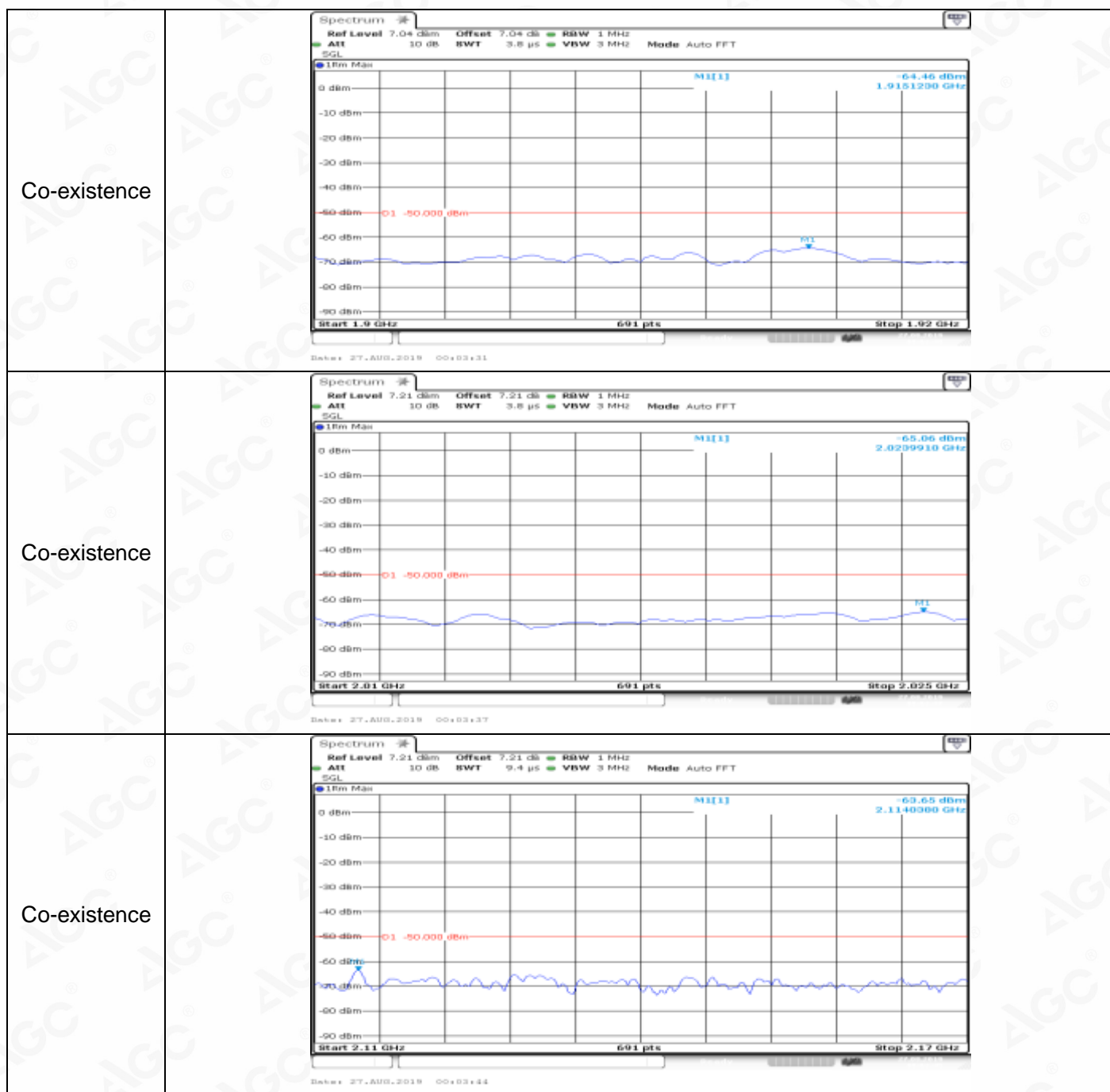
Tel: +86-755 2523 4088

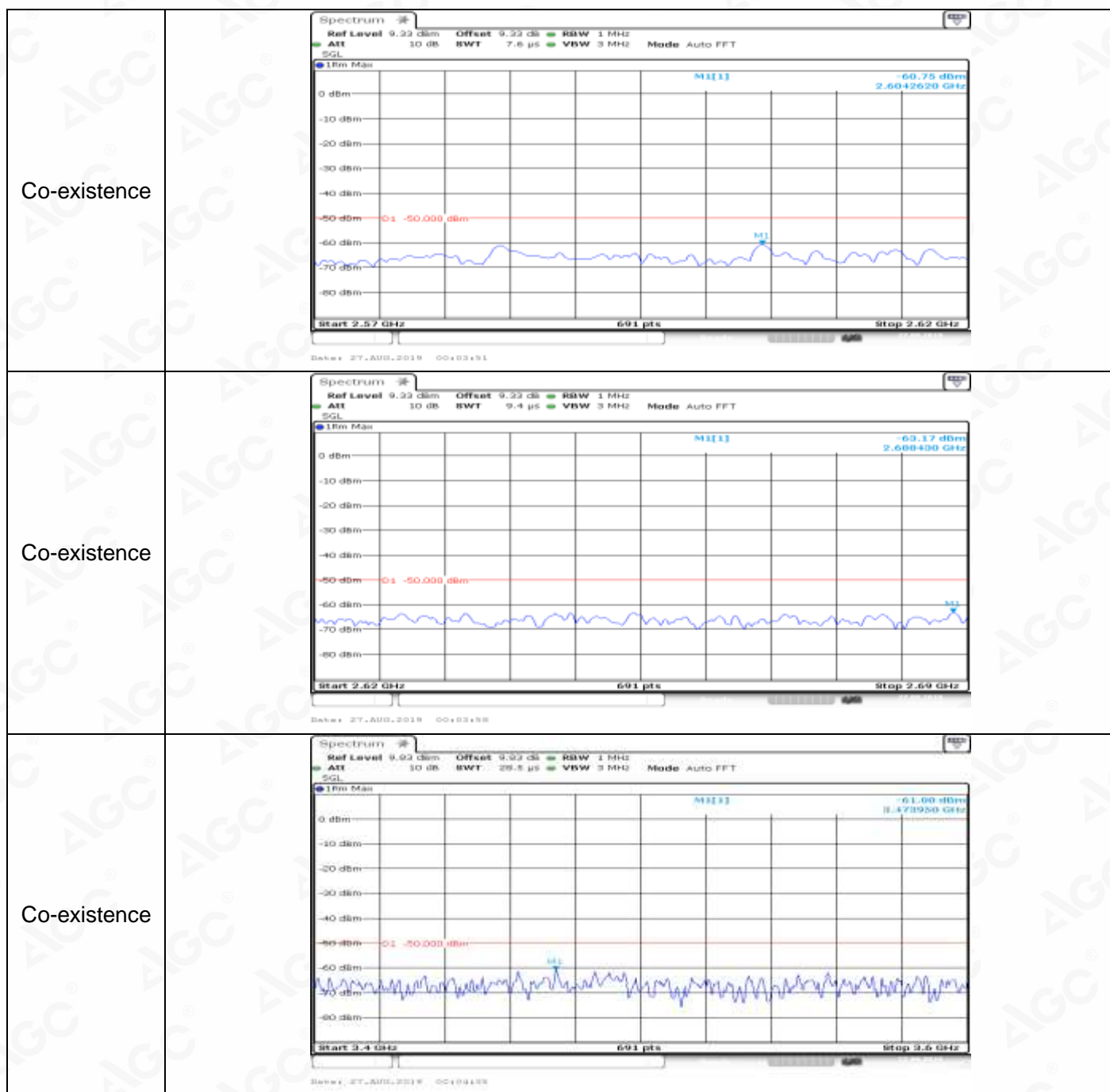
E-mail: agc@agc-cert.com

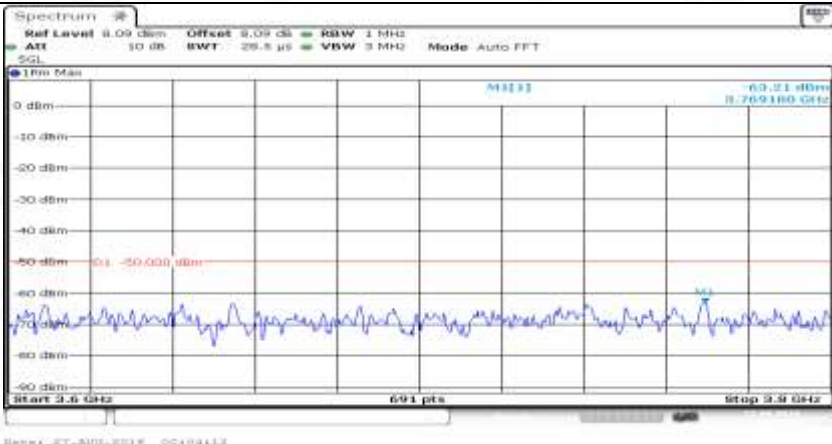
Service Hotline: 400 089 2118



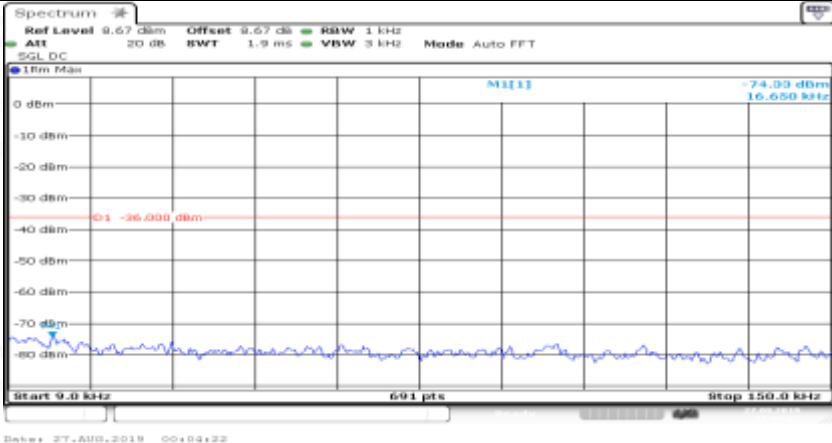
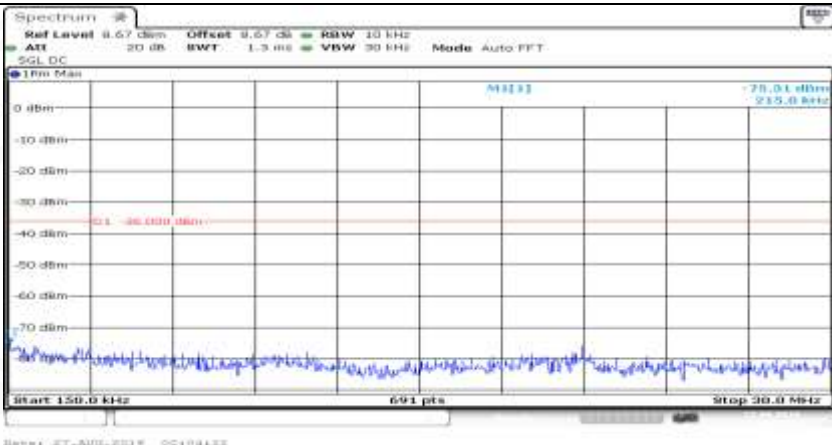


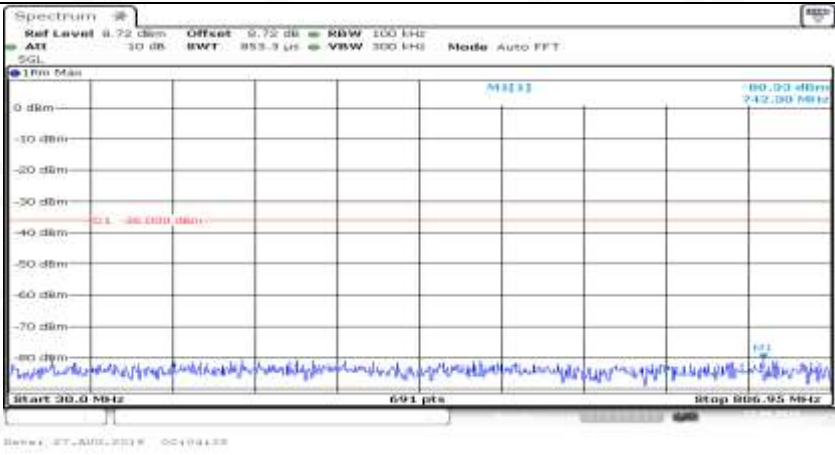
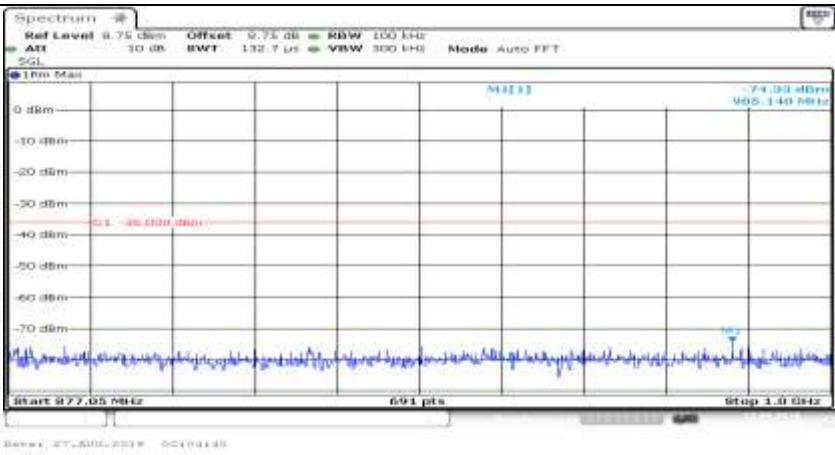
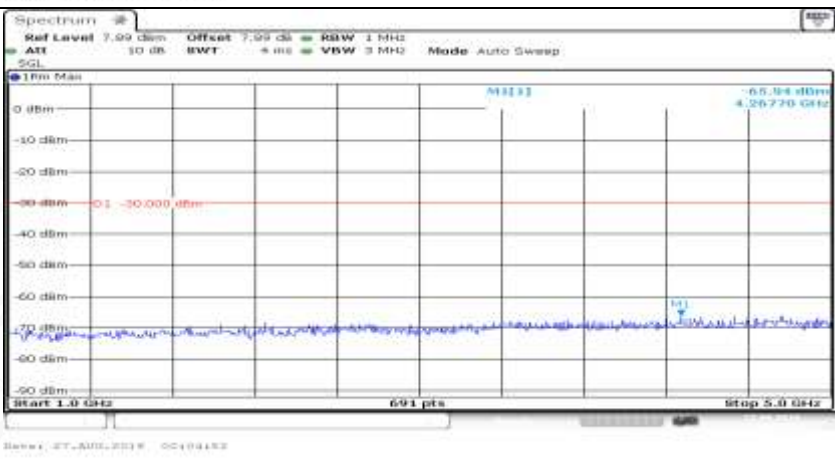


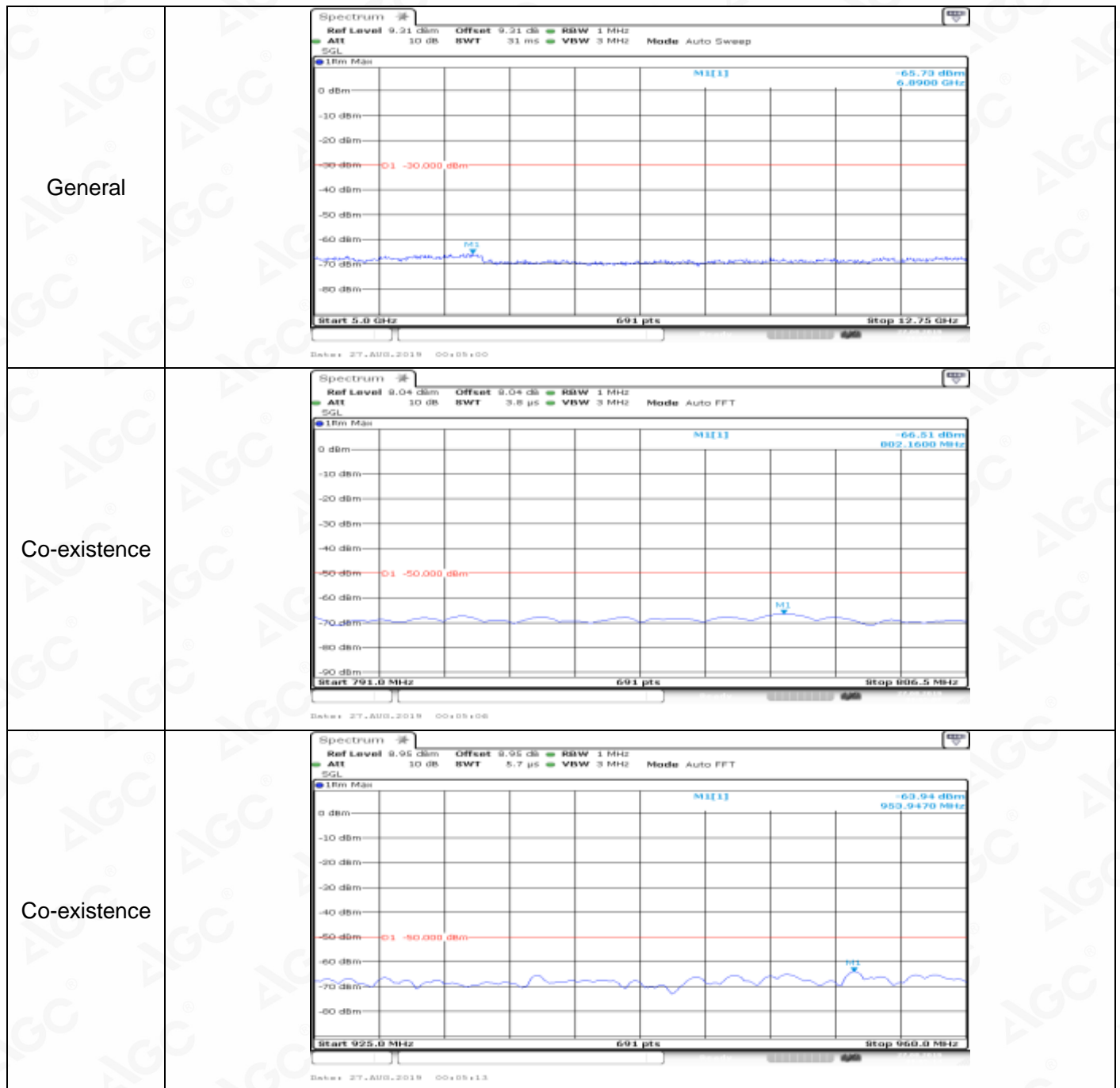


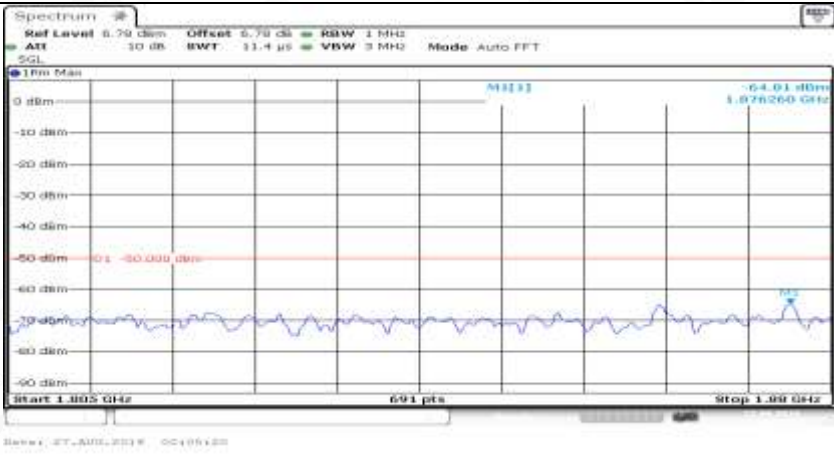
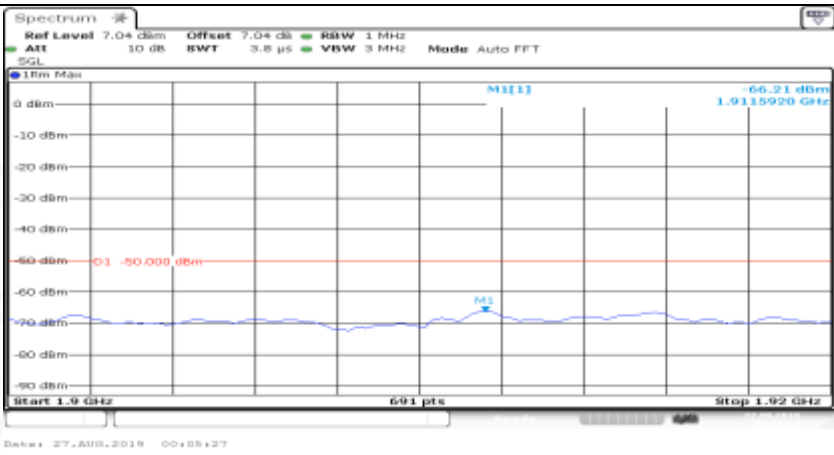
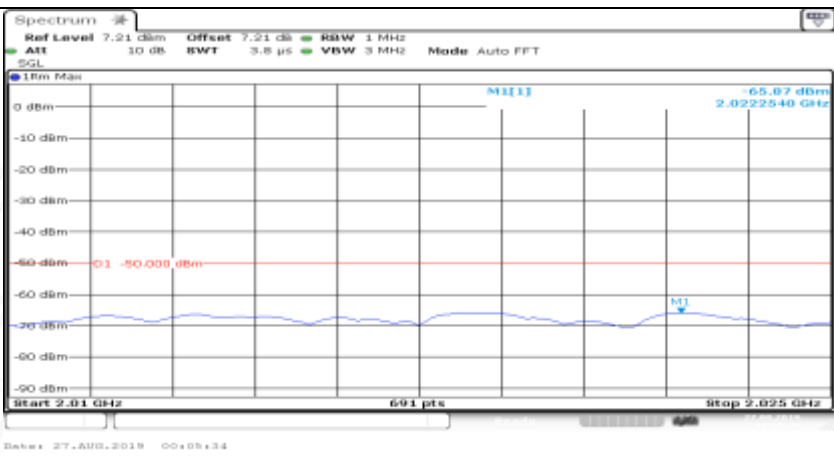
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max

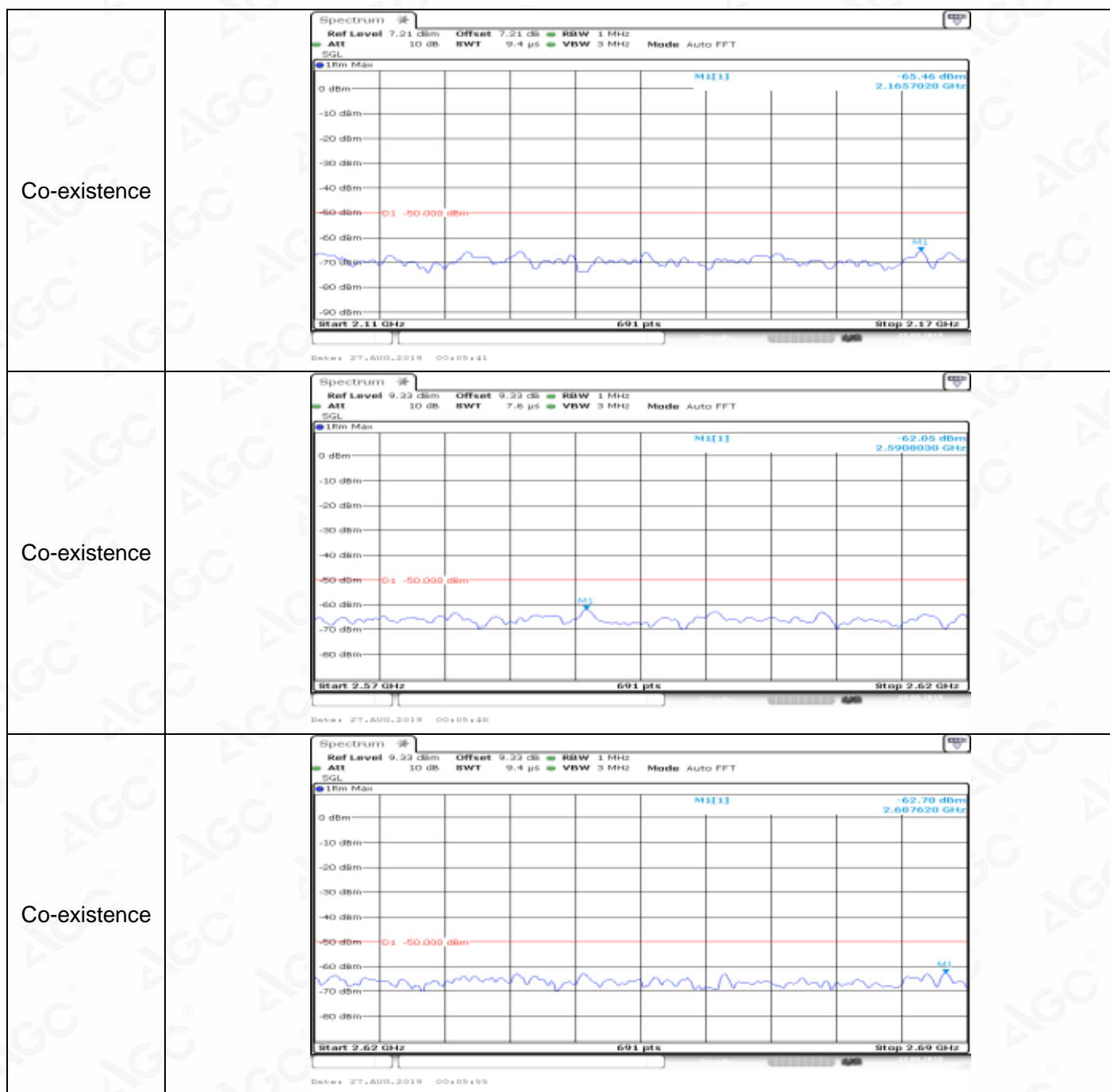
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General	

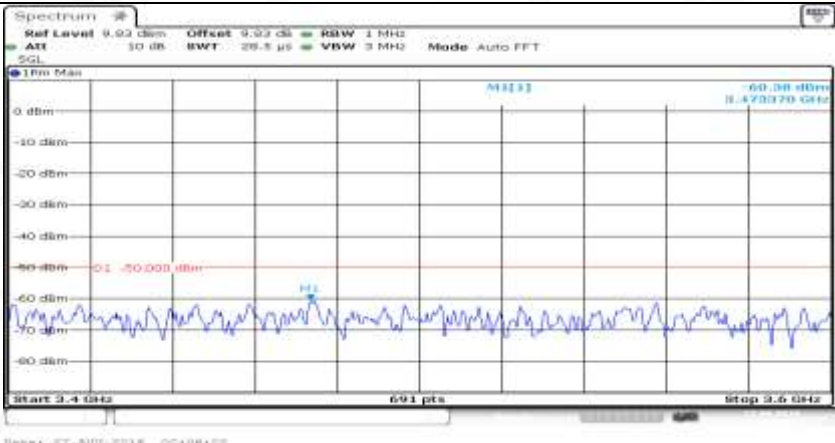
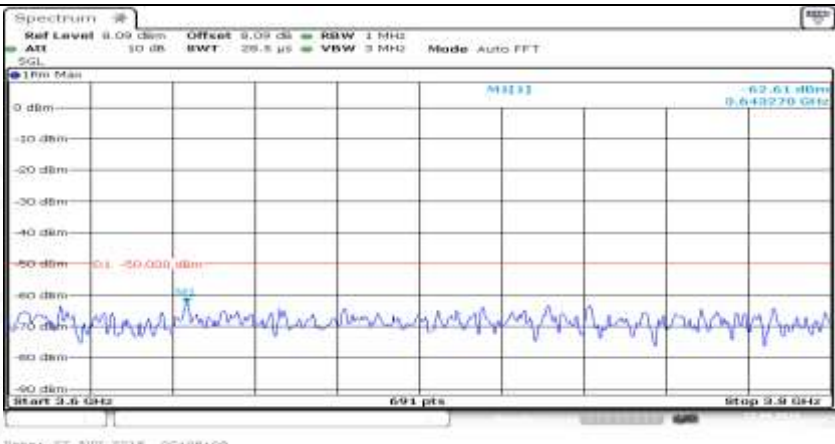
General	
General	
General	

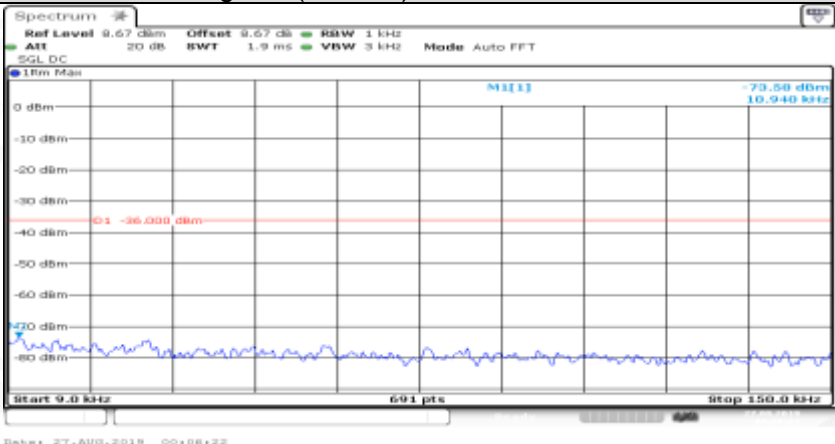


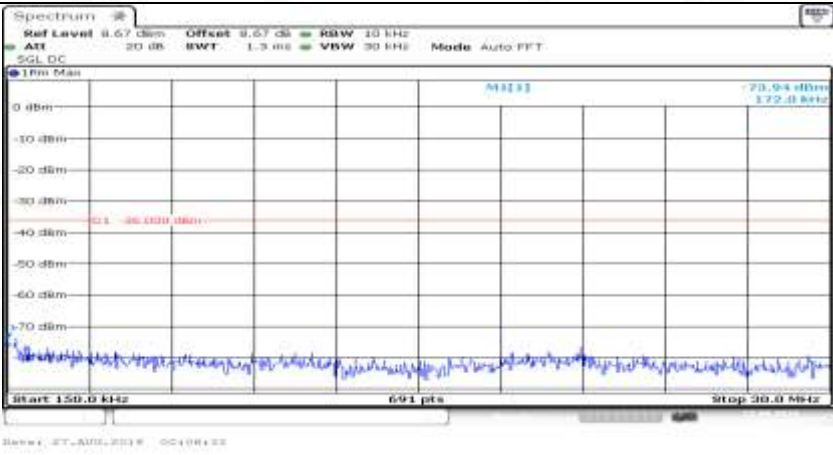
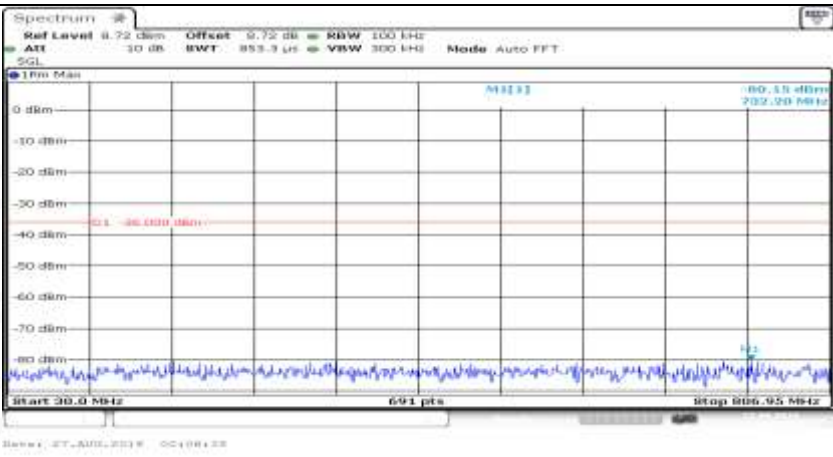
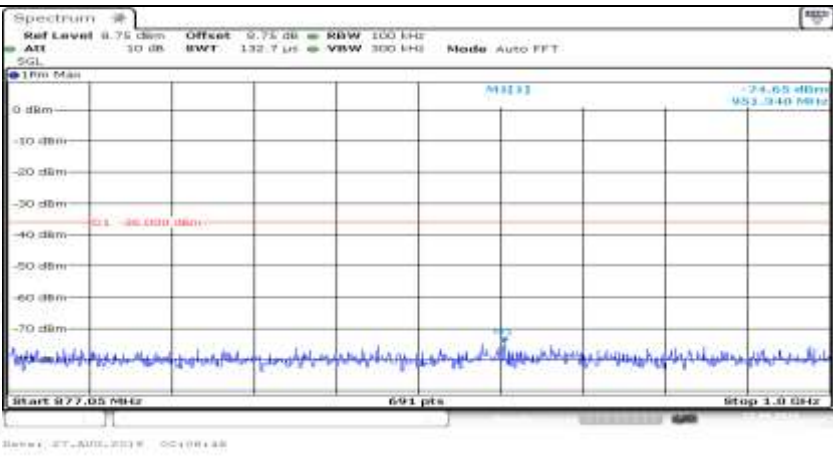
Co-existence	
Co-existence	
Co-existence	



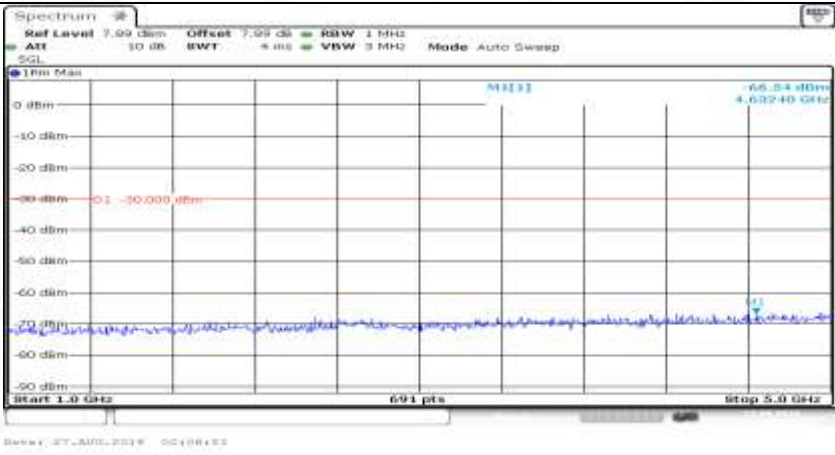
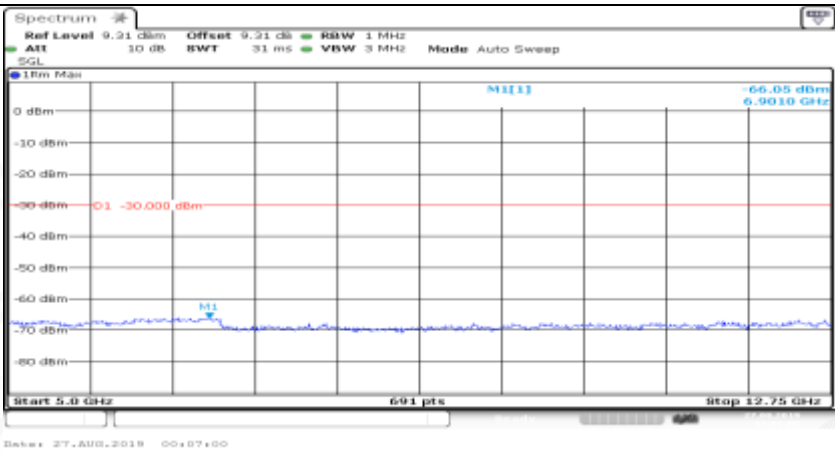
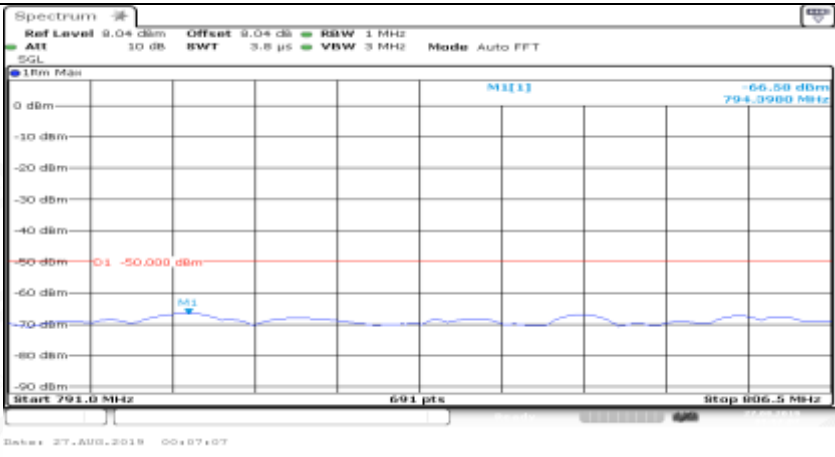


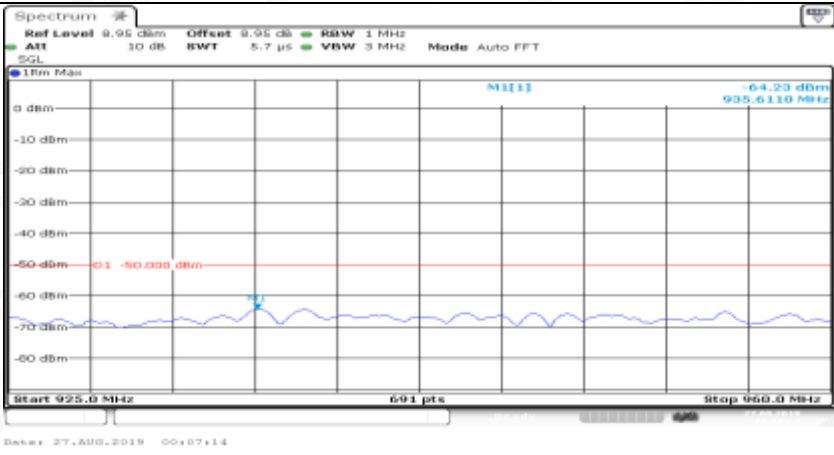

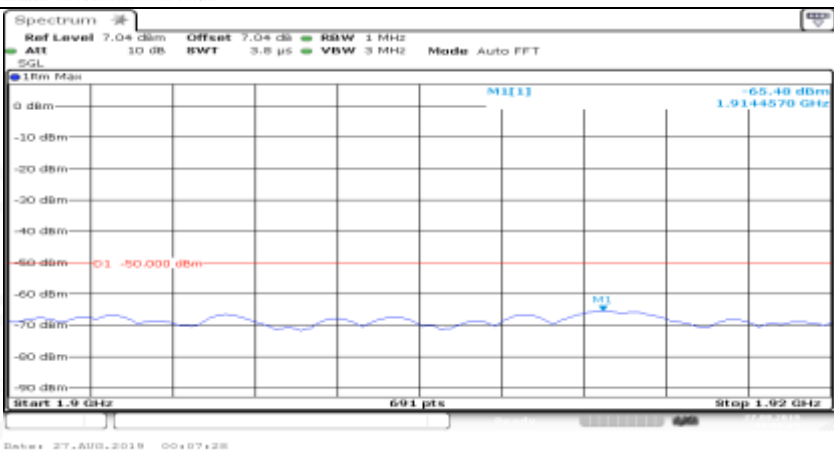
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

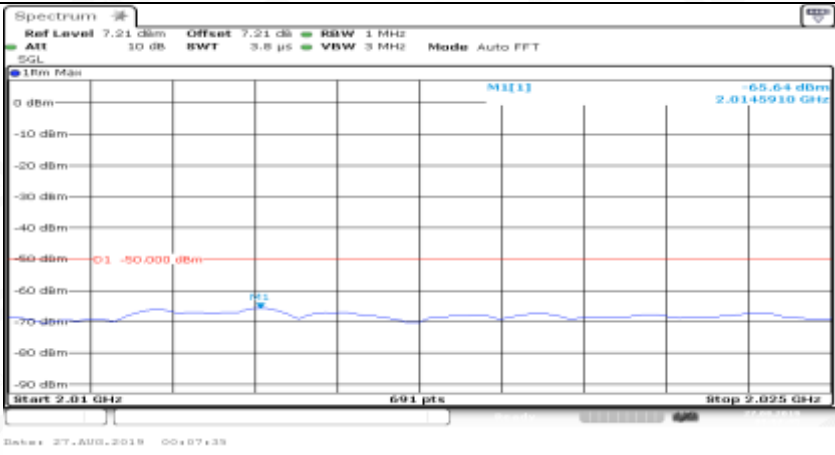

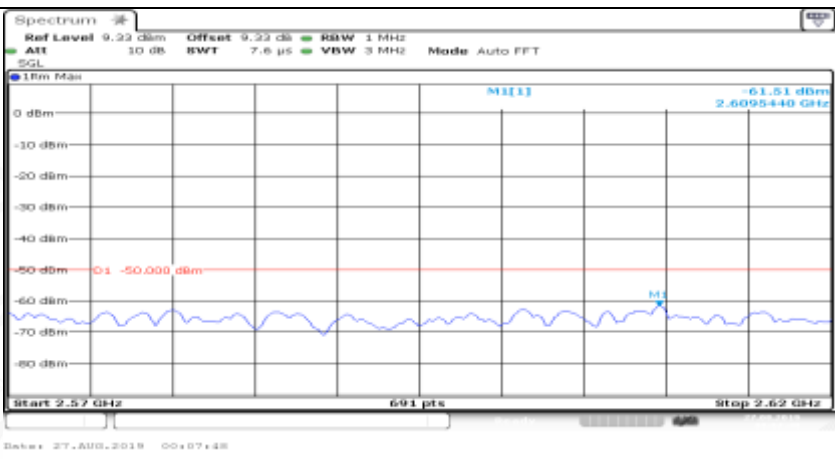
General	
General	
General	

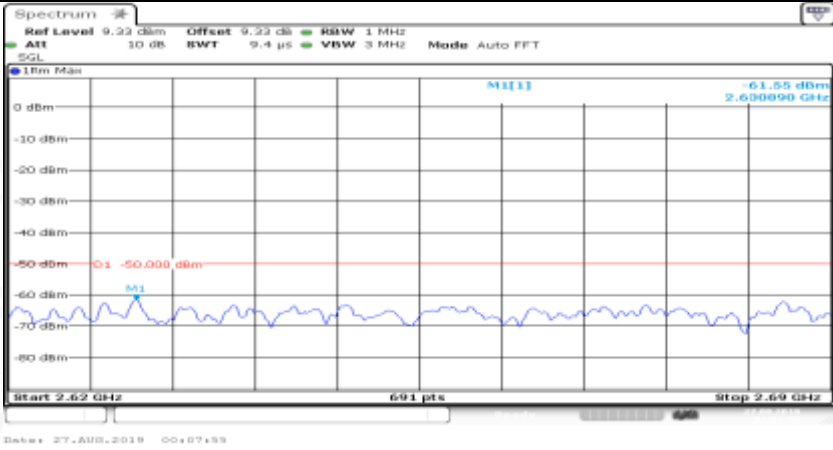
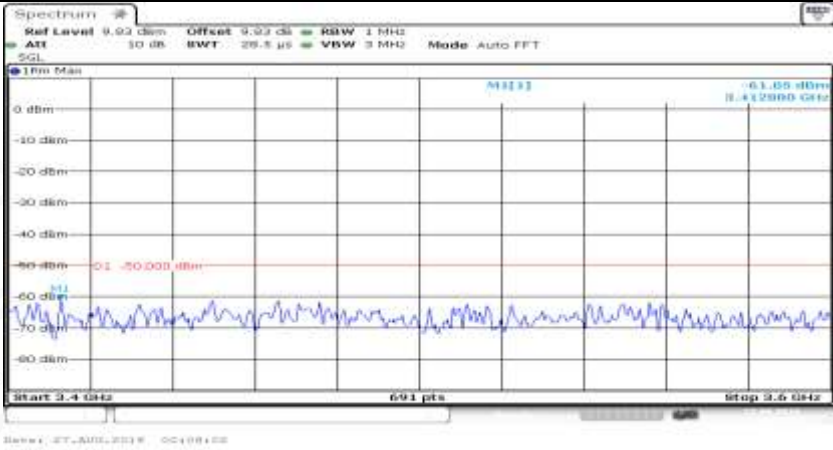
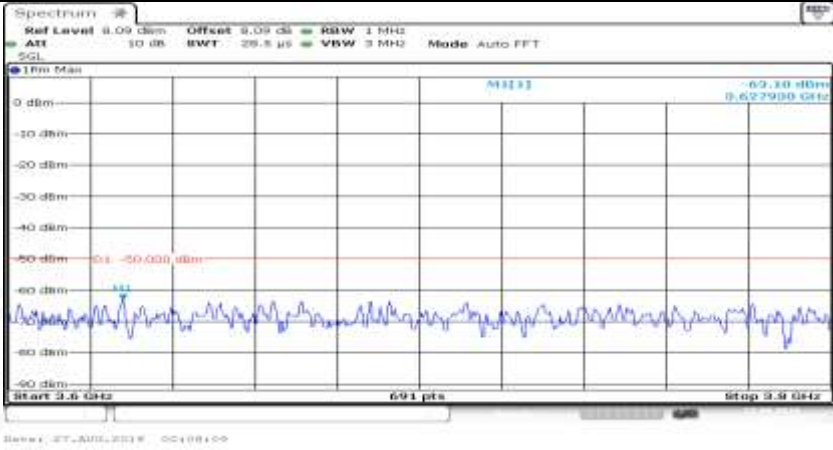


General	
General	
Co-existence	

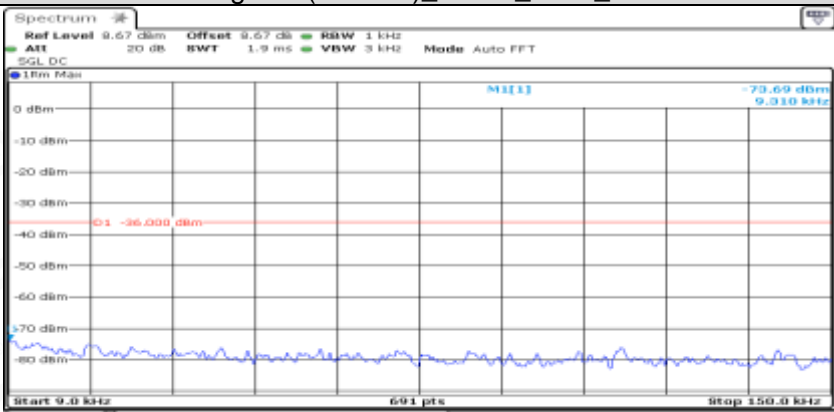
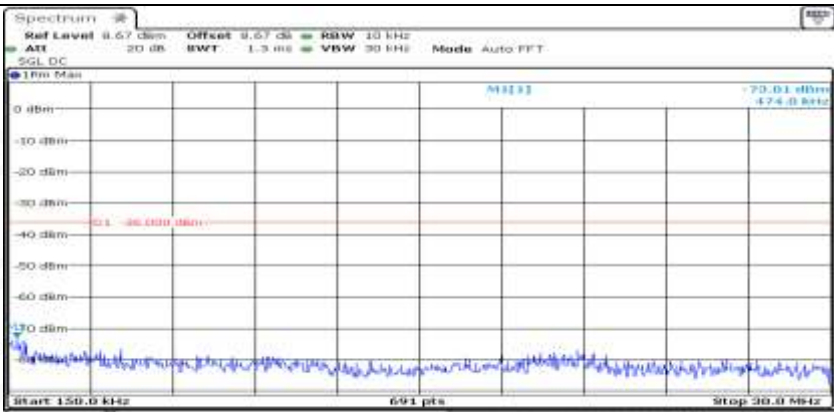
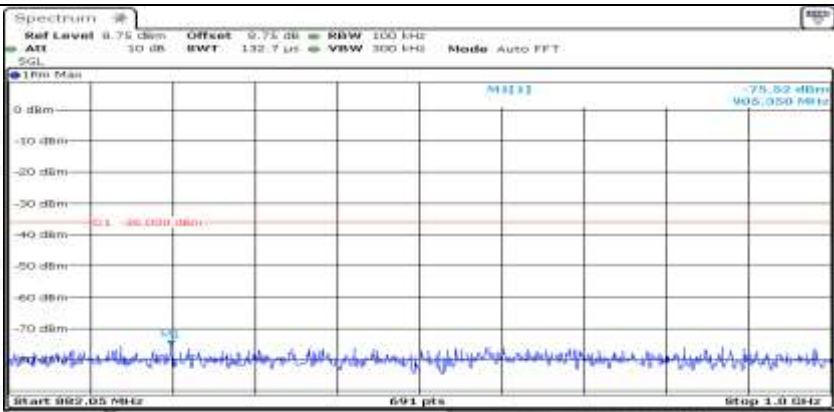
Co-existence	
Co-existence	
Co-existence	



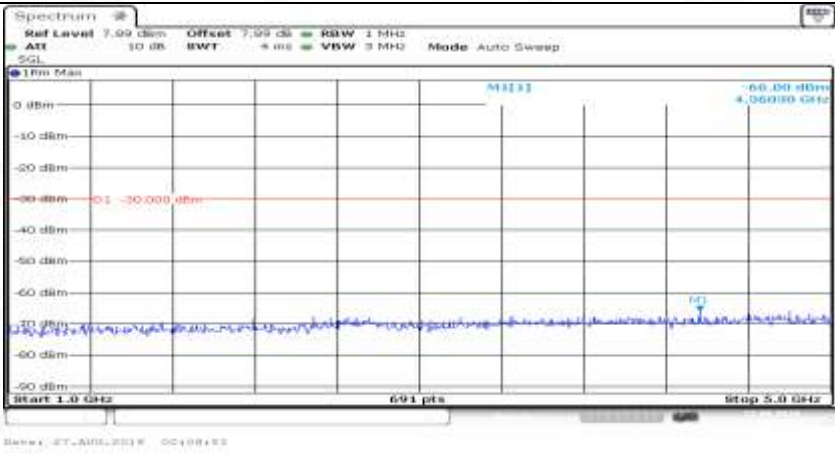
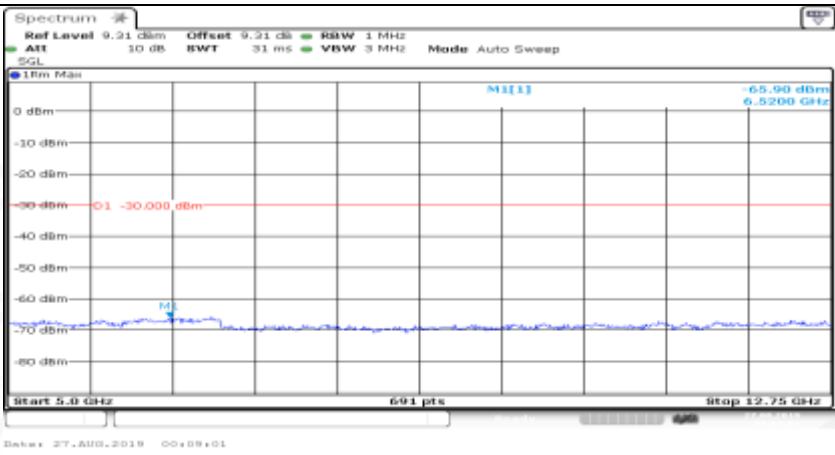
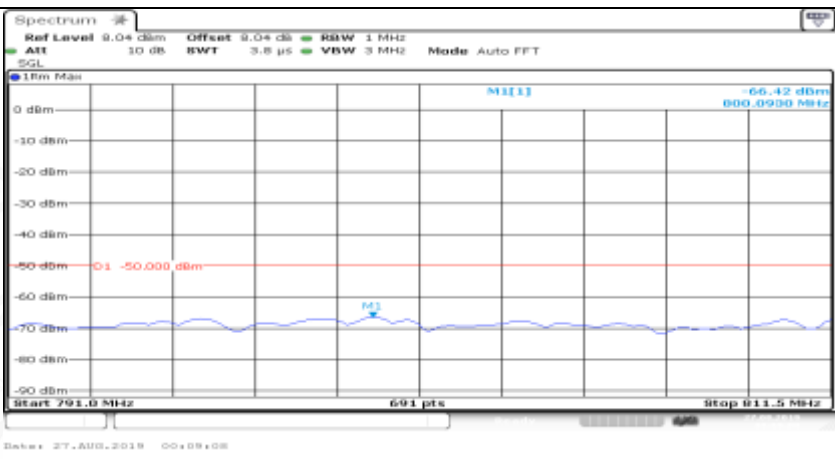
Co-existence	
Co-existence	
Co-existence	

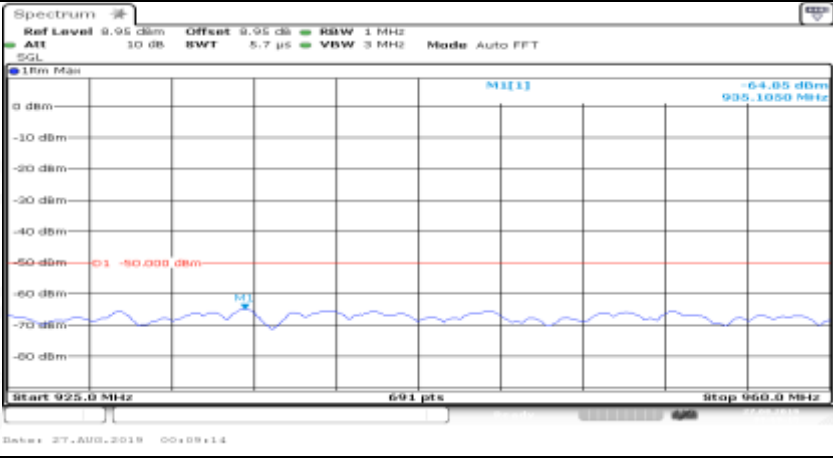

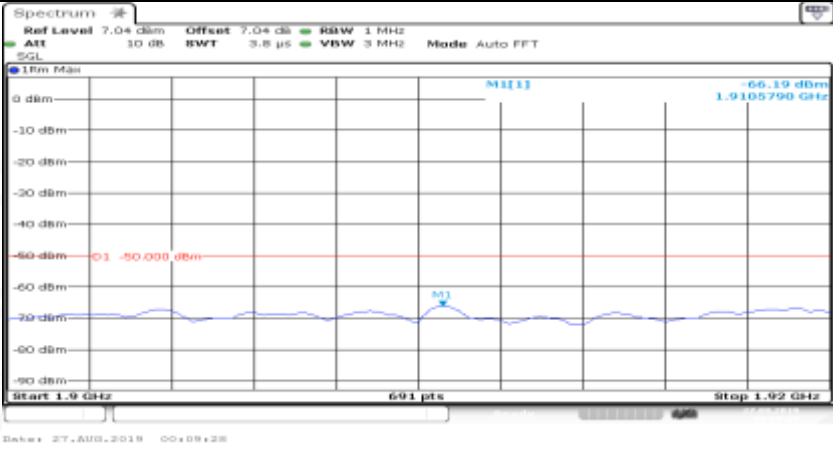
Co-existence	
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

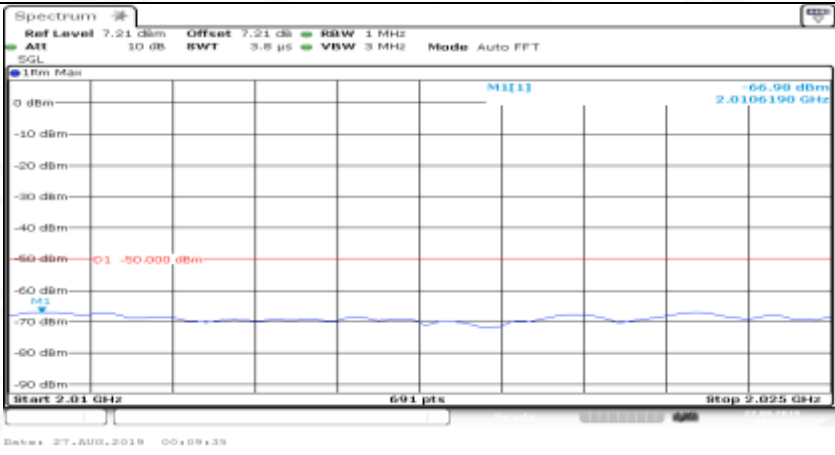

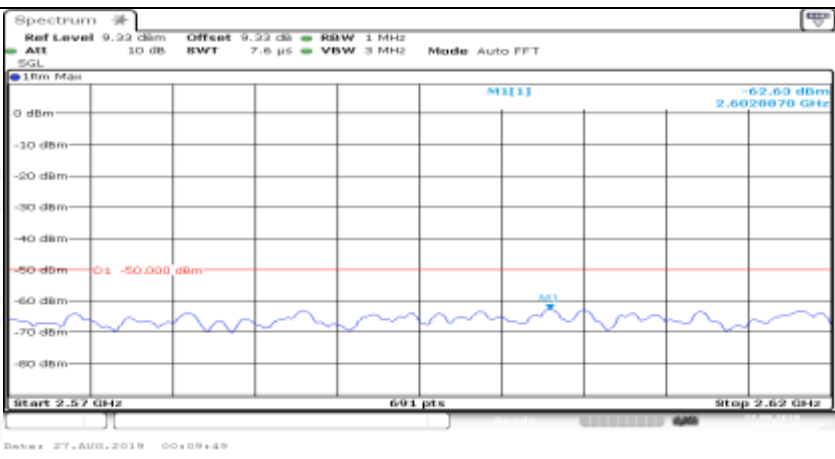
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB BW 1 kHz Att 20 dB SWT 1.9 ms VBW 3 kHz Mode Auto FFT SGL DC 10m Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 9.0 kHz 691 pts Stop 150.0 kHz Date: 27-AUG-2019 00:08:23</p>
General	 <p>Ref Level 9.67 dBm Offset 9.67 dB BW 10 kHz Att 20 dB SWT 1.3 ms VBW 30 kHz Mode Auto FFT SGL DC 10m Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 150.0 kHz 691 pts Stop 300.0 MHz Date: 27-AUG-2019 00:08:23</p>
General	 <p>Ref Level 9.75 dBm Offset 9.75 dB BW 100 kHz Att 30 dB SWT 132.7 us VBW 300 kHz Mode Auto FFT SGL 10m Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 905.950 MHz 691 pts Stop 1.0 GHz Date: 27-AUG-2019 00:08:27</p>

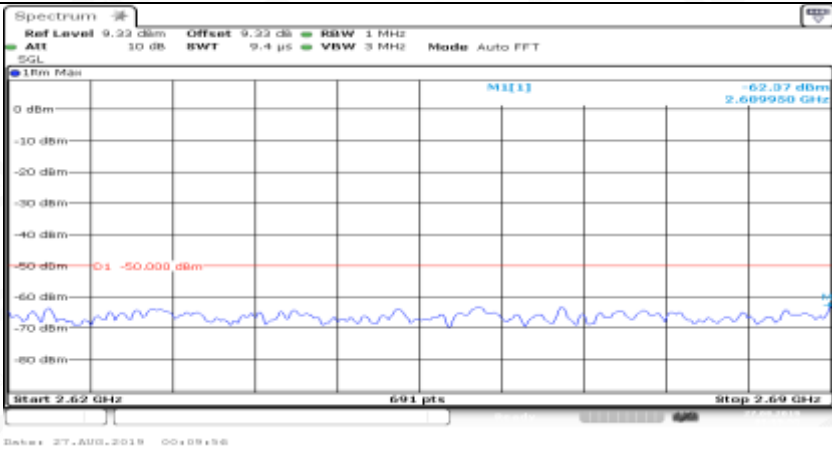
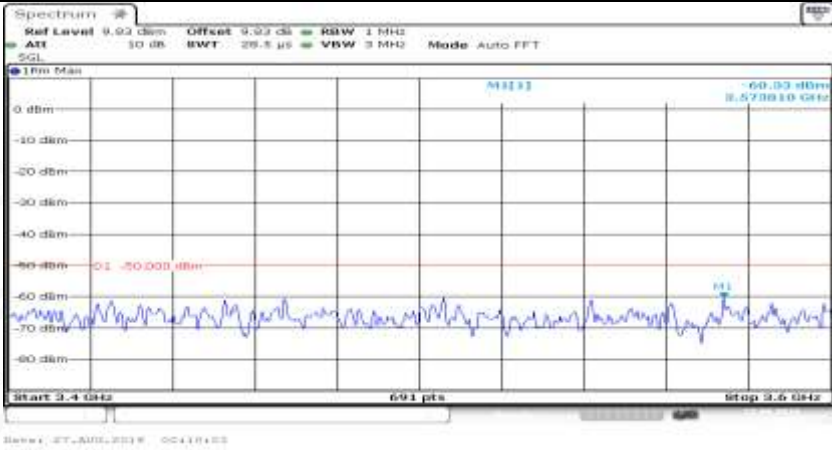
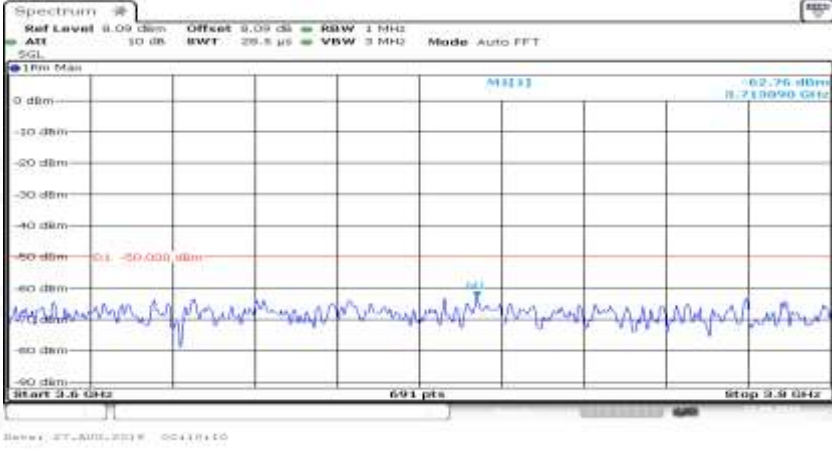


General	
General	
Co-existence	

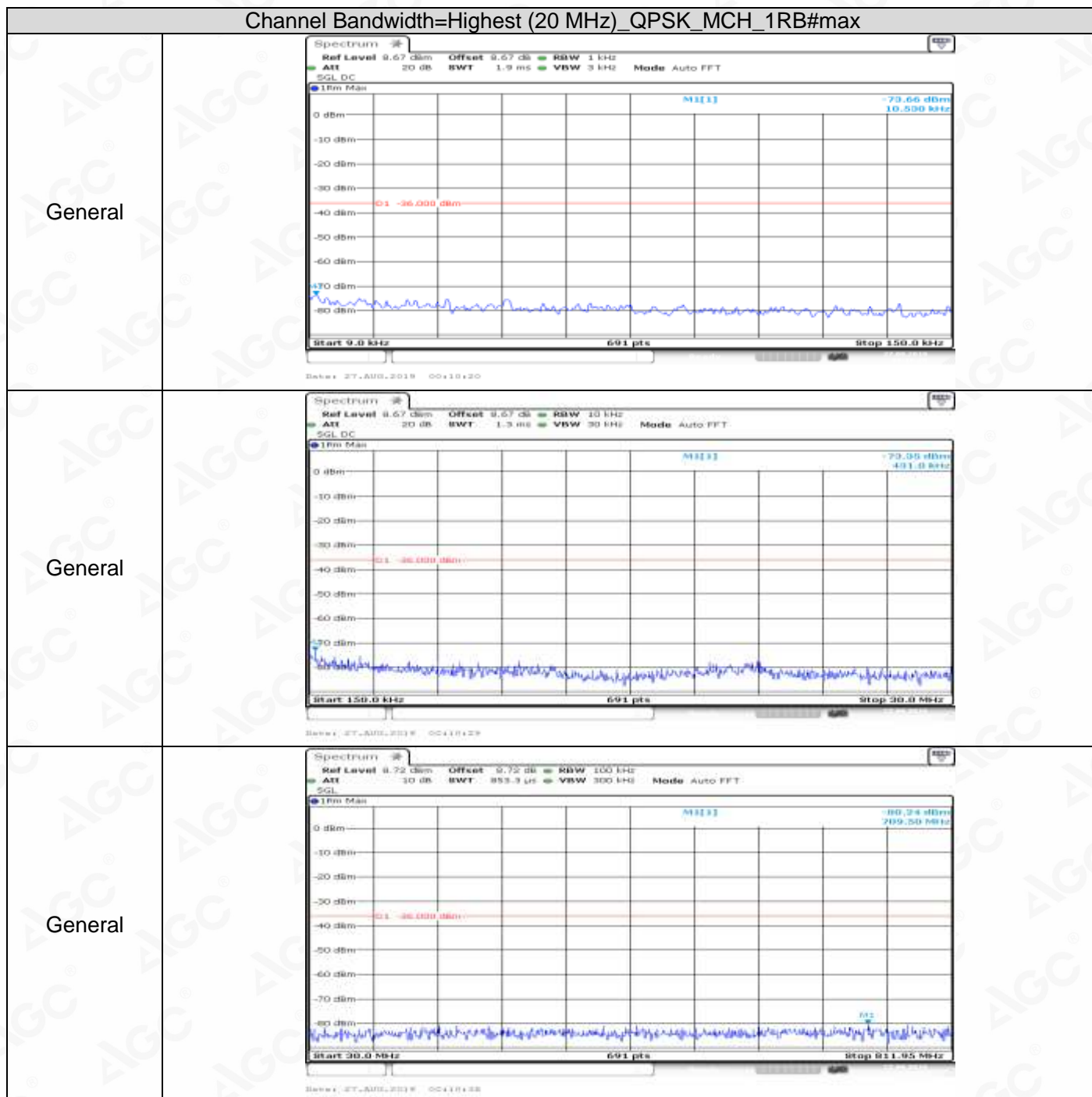
Co-existence	
Co-existence	
Co-existence	

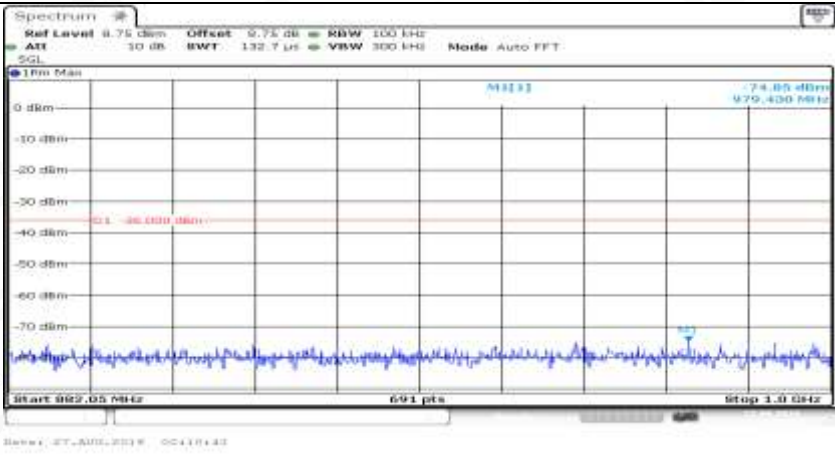
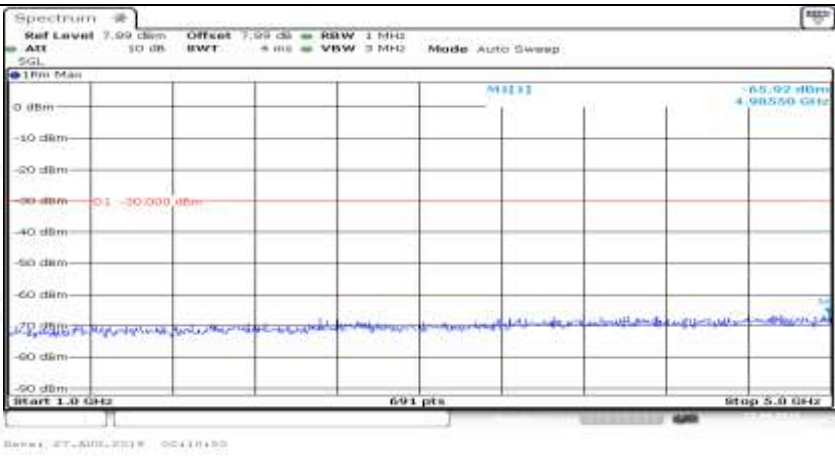
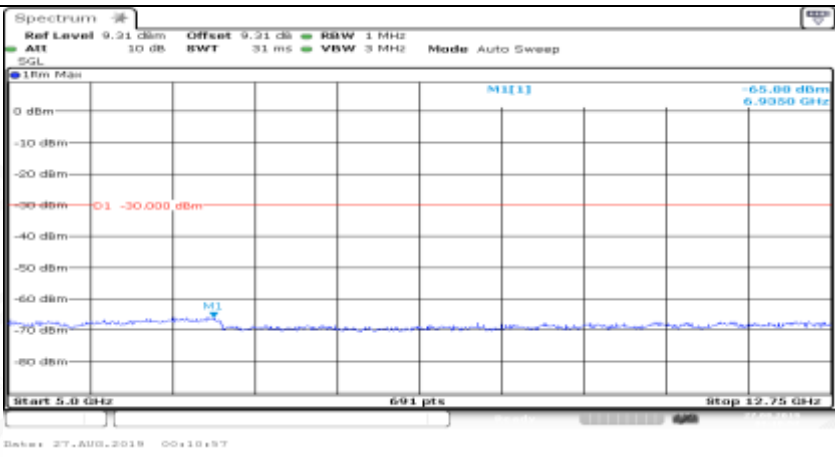


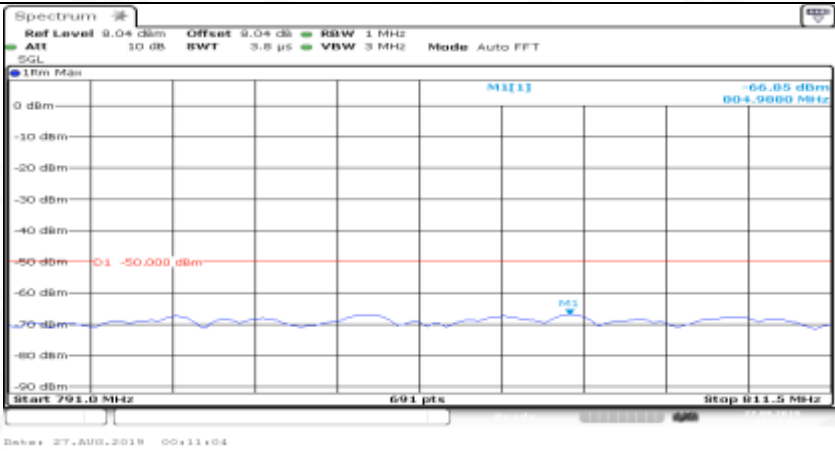
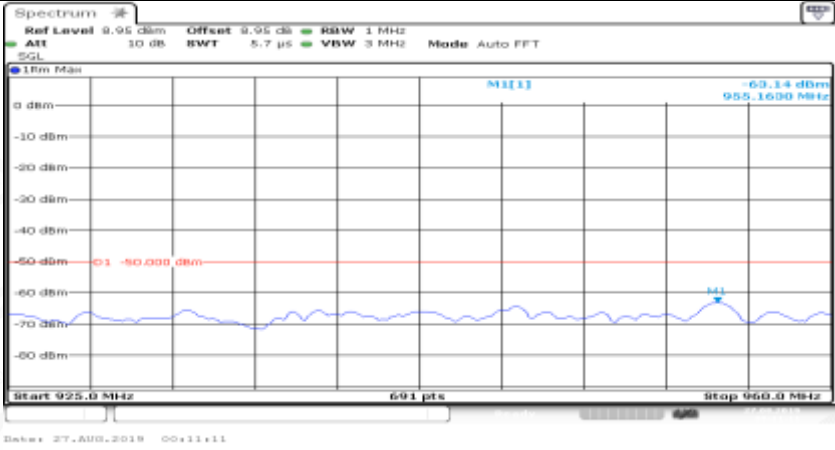
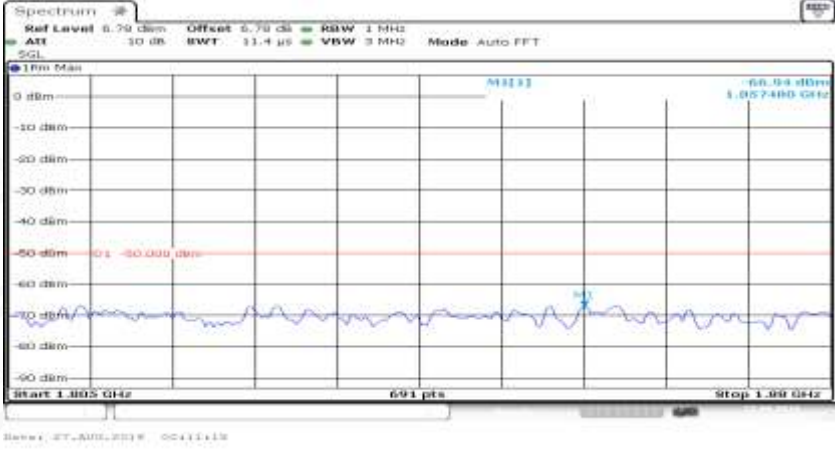
Co-existence	
Co-existence	
Co-existence	

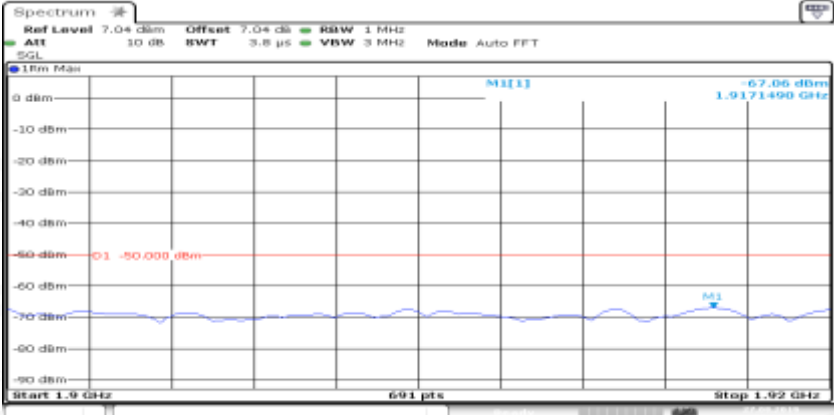
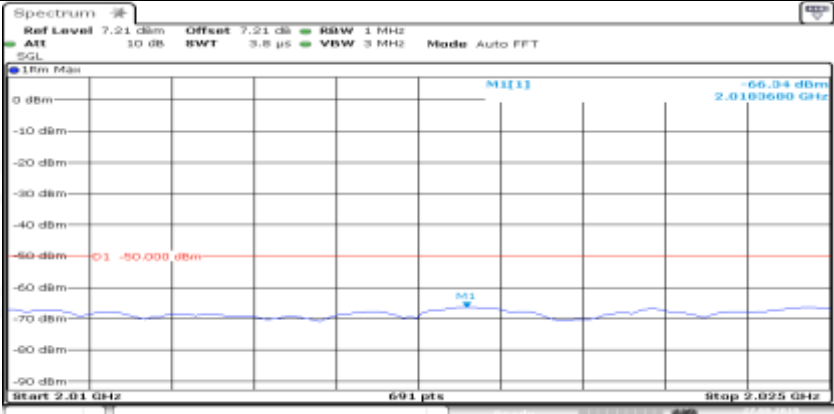

Co-existence	 <p>Ref Level 9.23 dBm Offset 9.23 dB RBW 1 MHz Att 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT SGL 10m Max M1[1] -62.97 dBm 2.609950 GHz Start 2.62 GHz 691 pts Stop 2.69 GHz Date: 27-AUG-2019 00:09:56</p>
Co-existence	 <p>Ref Level 9.03 dBm Offset 9.03 dB RBW 1 MHz Att 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT SGL 10m Max M1[1] -60.93 dBm 2.570010 GHz Start 2.4 GHz 691 pts Stop 2.6 GHz Date: 27-AUG-2019 00:11:43</p>
Co-existence	 <p>Ref Level 8.09 dBm Offset 8.09 dB RBW 1 MHz Att 10 dB BW 29.5 μs VBW 3 MHz Mode Auto FFT SGL 10m Max M1[1] -62.76 dBm 2.710090 GHz Start 2.6 GHz 691 pts Stop 2.8 GHz Date: 27-AUG-2019 00:11:40</p>
Additional	NA

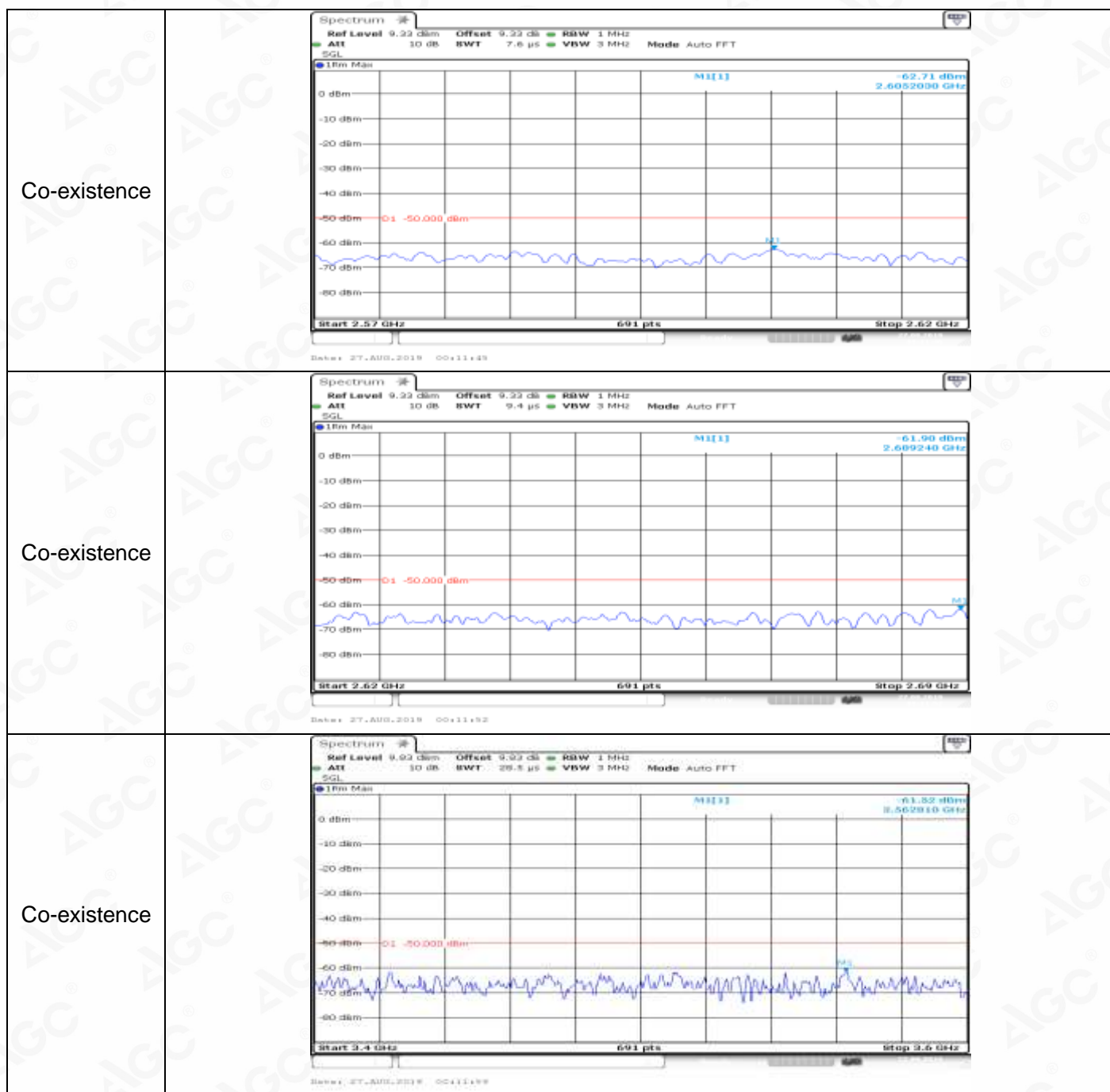
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max



General	
General	
General	

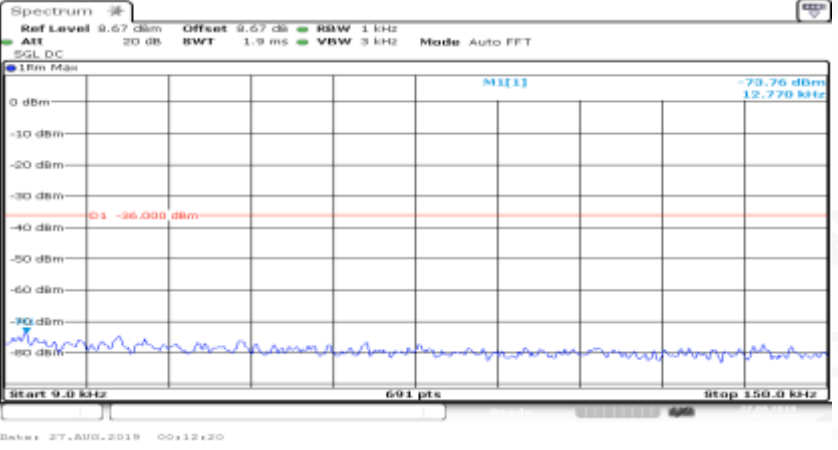
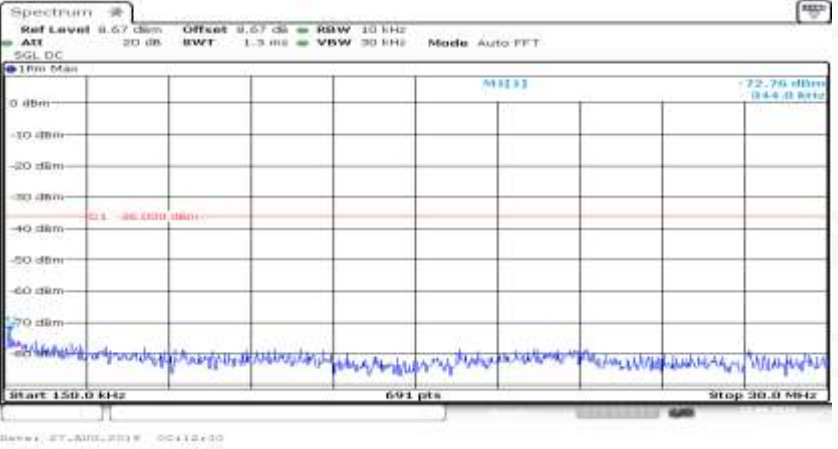
Co-existence	
Co-existence	
Co-existence	

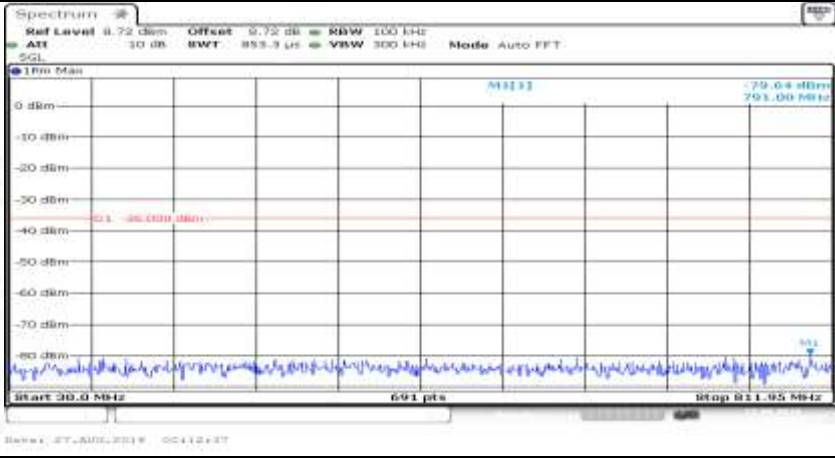
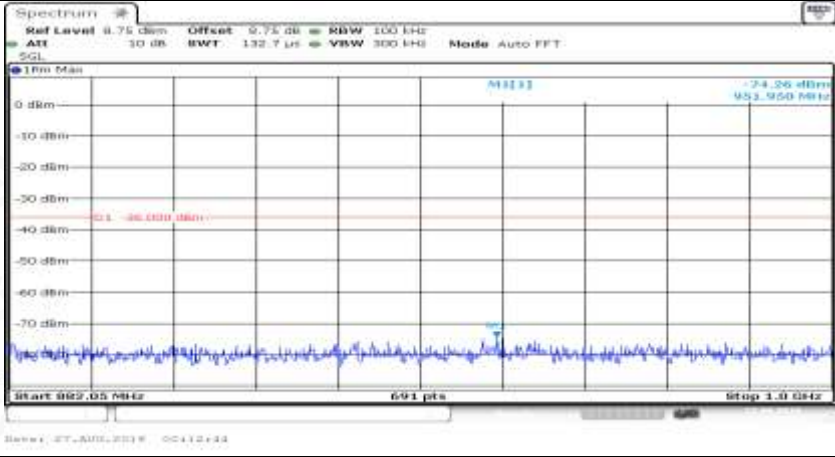
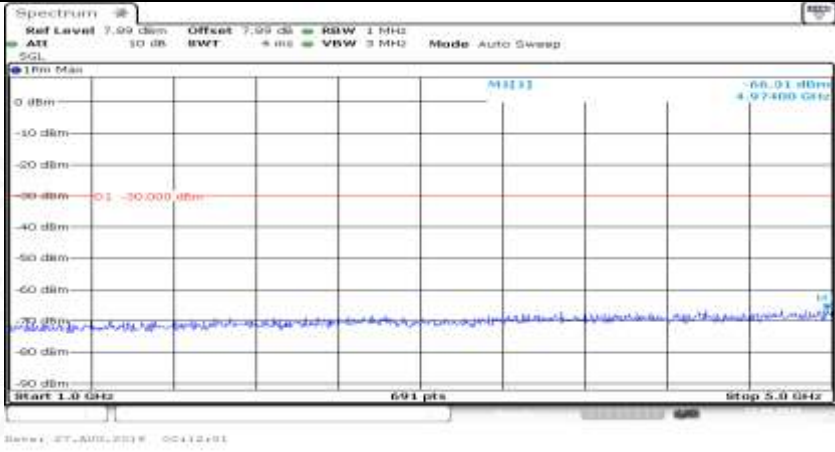
Co-existence	 <p>Ref Level 7.04 dBm Offset 7.04 dB BW 1 MHz Att 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT SGL 15m Max M1[1] -67.06 dBm 1.9171490 GHz Start 1.9 GHz 691 pts Stop 1.92 GHz Date: 27.AUG.2019 00:11:29</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz Att 10 dB SWT 3.8 μs VBW 3 MHz Mode Auto FFT SGL 15m Max M1[1] -66.94 dBm 2.0103600 GHz Start 2.01 GHz 691 pts Stop 2.025 GHz Date: 27.AUG.2019 00:11:32</p>
Co-existence	 <p>Ref Level 7.21 dBm Offset 7.21 dB BW 1 MHz Att 10 dB SWT 9.4 μs VBW 3 MHz Mode Auto FFT SGL 15m Max M1[1] -65.73 dBm 2.1595370 GHz Start 2.11 GHz 691 pts Stop 2.17 GHz Date: 27.AUG.2019 00:11:39</p>

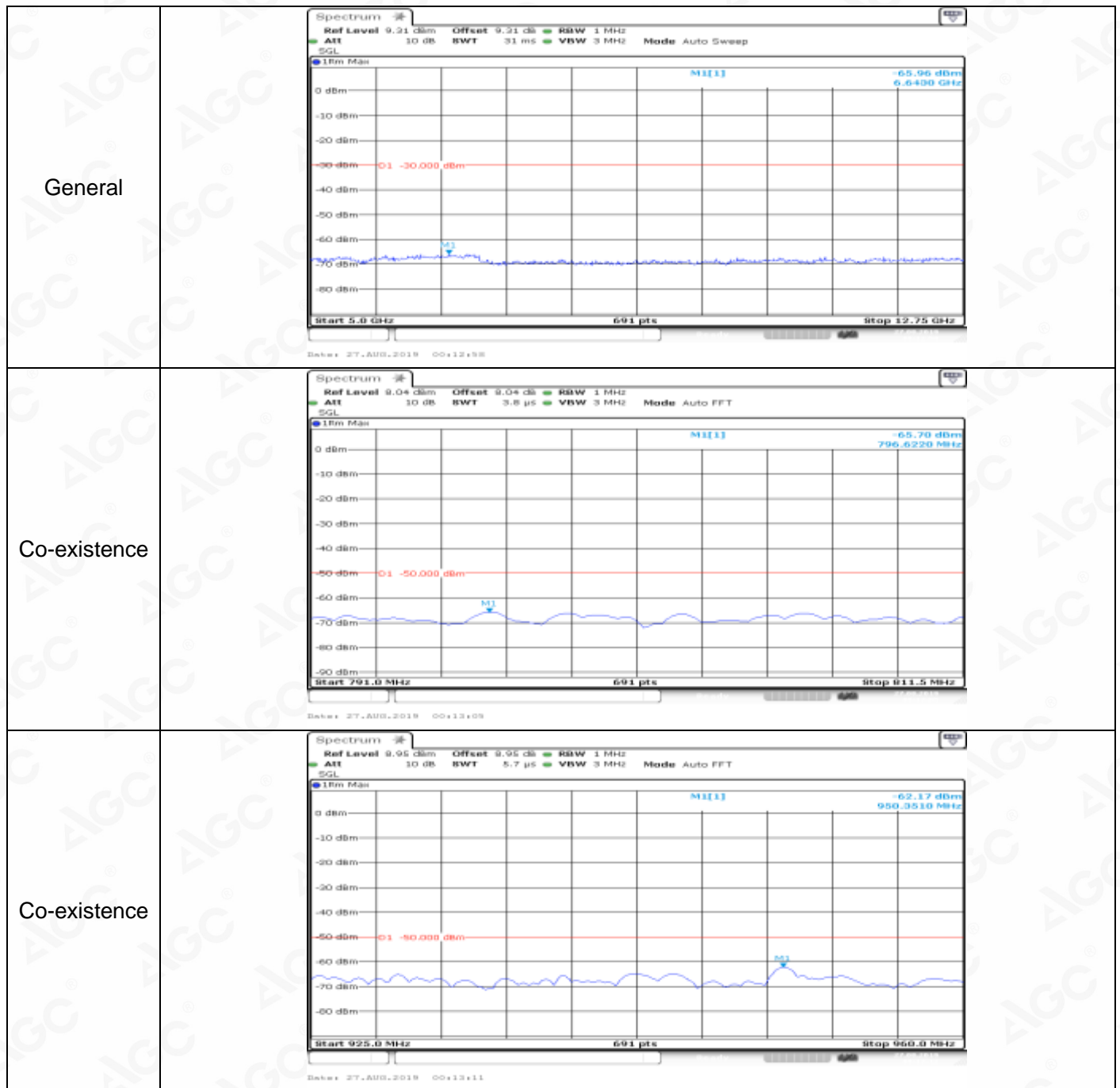



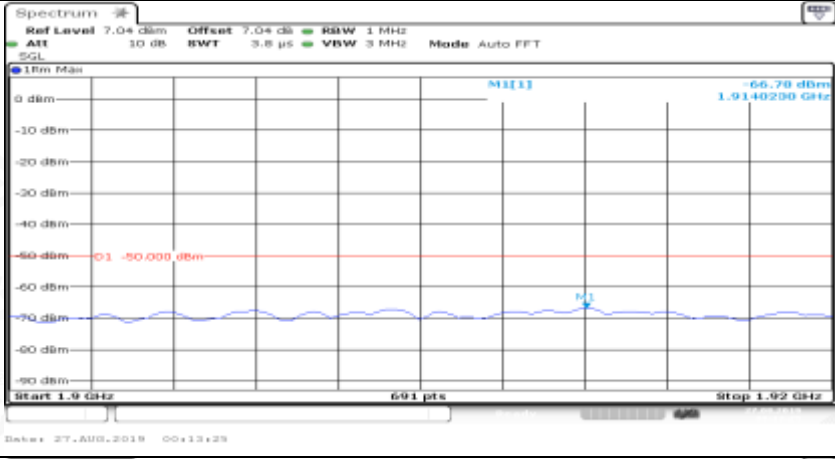
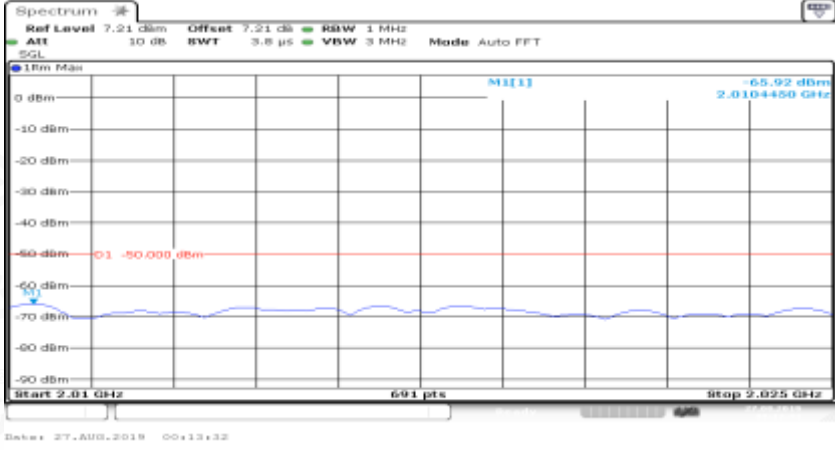
Co-existence	
Additional	NA

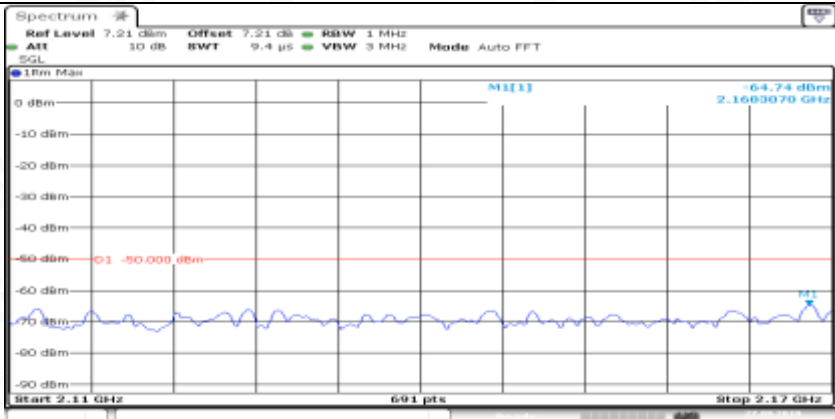
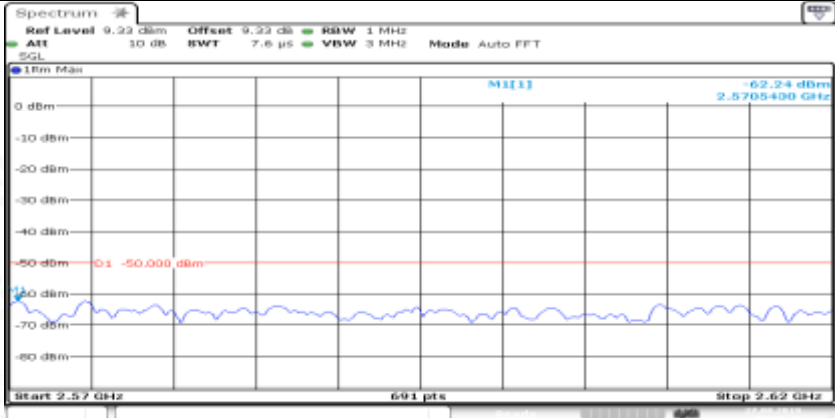
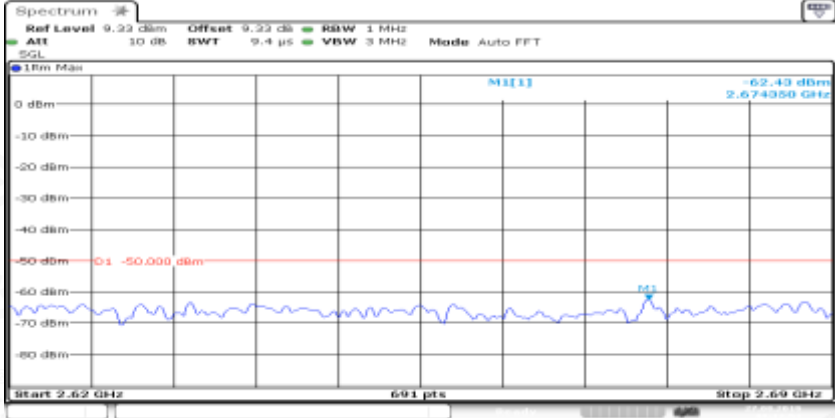
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0

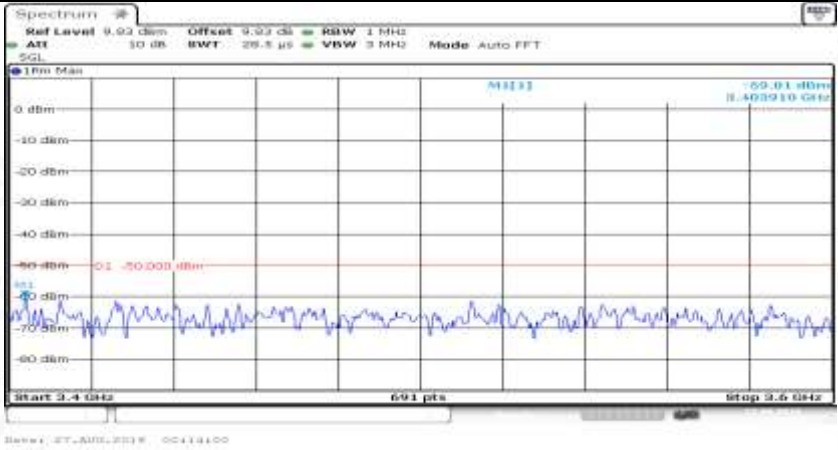
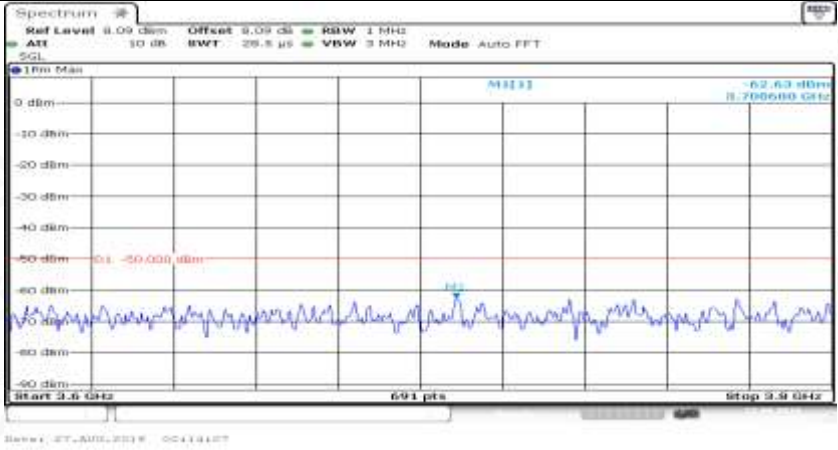
General	
General	

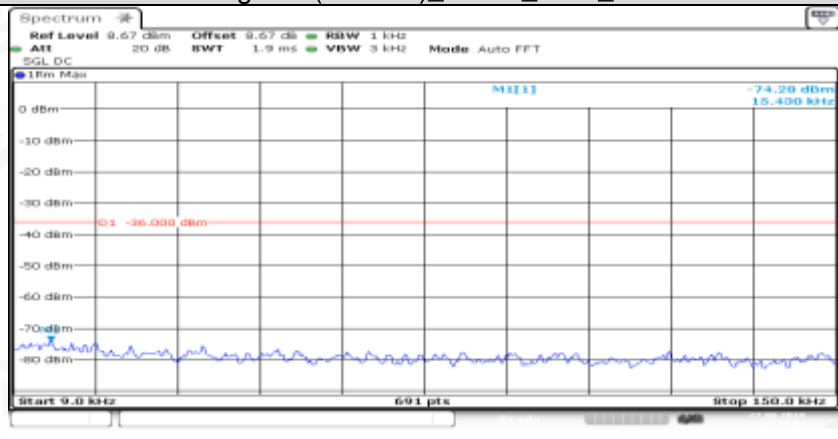
General	
General	
General	

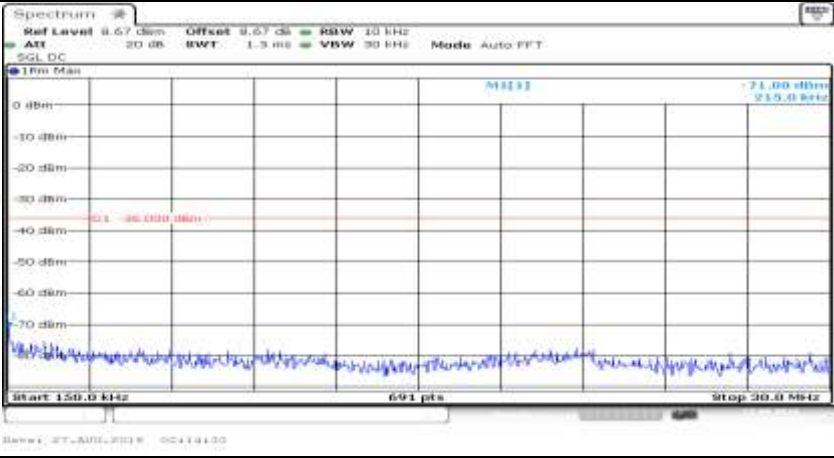
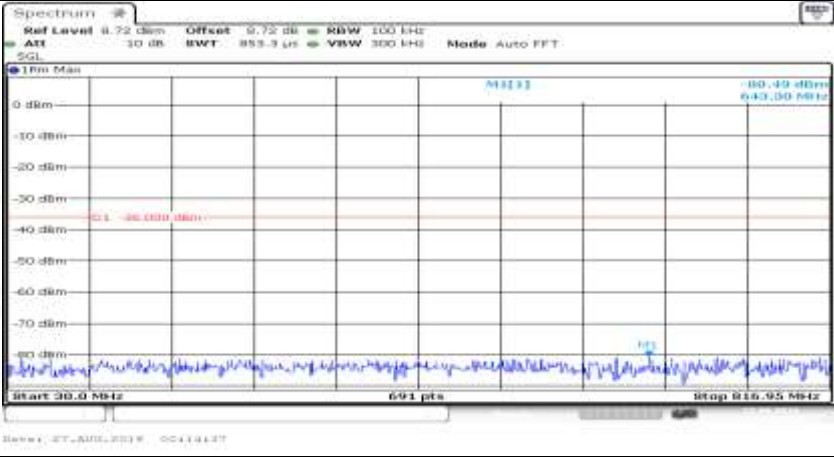
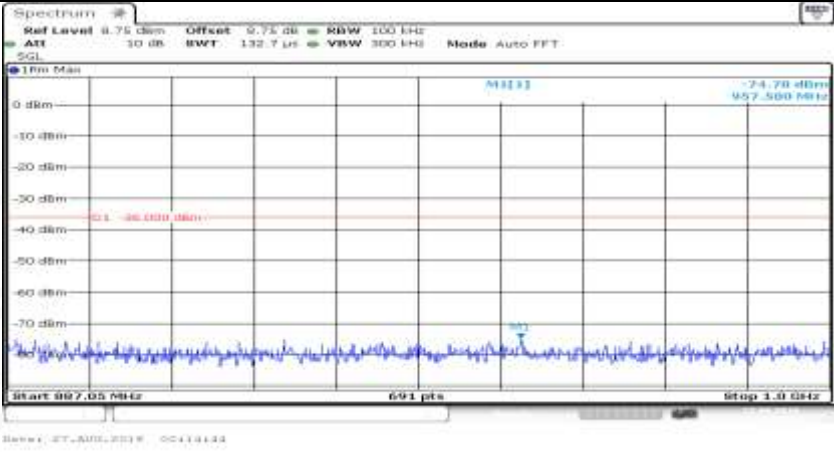


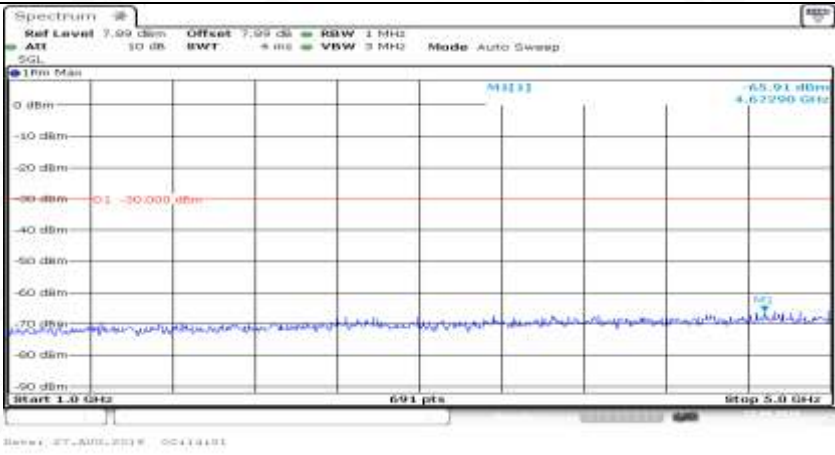
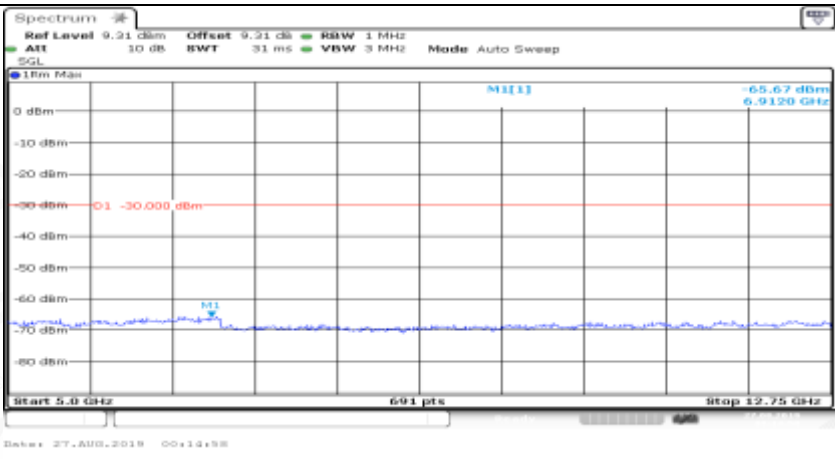
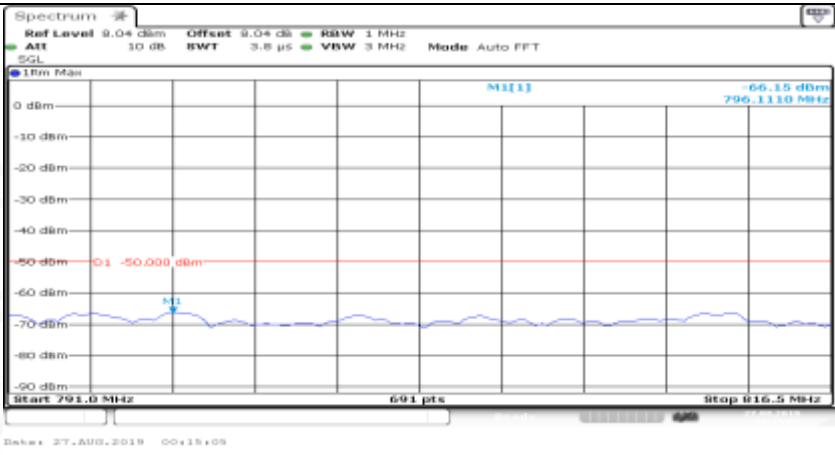
Co-existence	
Co-existence	
Co-existence	

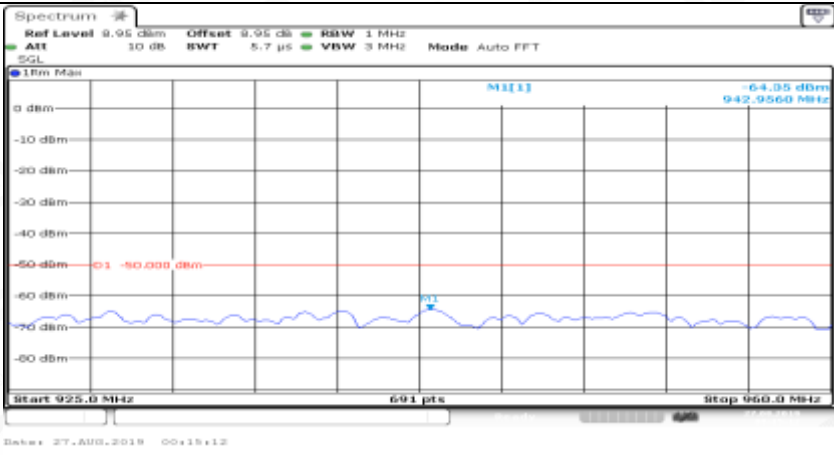

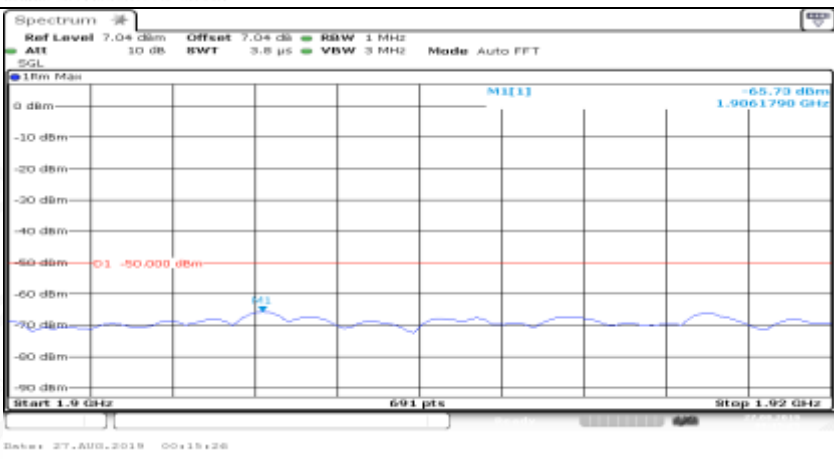
Co-existence	 <p>Spectrum</p> <p>Ref Level 7.21 dBm Offset 7.21 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 2.11 GHz 691 pts Stop 2.17 GHz</p> <p>2.1693070 GHz -64.74 dBm</p> <p>2019.08.27 00:13:39</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.22 dBm Offset 9.22 dB RBW 1 MHz ATT 10 dB BW 7.6 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 2.57 GHz 691 pts Stop 2.62 GHz</p> <p>2.5705490 GHz -62.24 dBm</p> <p>2019.08.27 00:13:40</p>
Co-existence	 <p>Spectrum</p> <p>Ref Level 9.22 dBm Offset 9.22 dB RBW 1 MHz ATT 10 dB BW 9.4 μs VBW 3 MHz Mode Auto FFT</p> <p>10m Max</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm</p> <p>Start 2.62 GHz 691 pts Stop 2.69 GHz</p> <p>2.674350 GHz -62.43 dBm</p> <p>2019.08.27 00:13:53</p>

Co-existence	
Co-existence	
Additional	NA

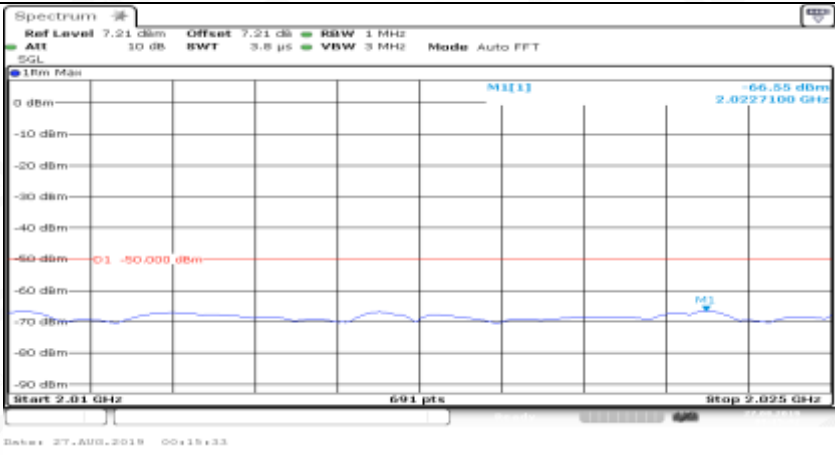

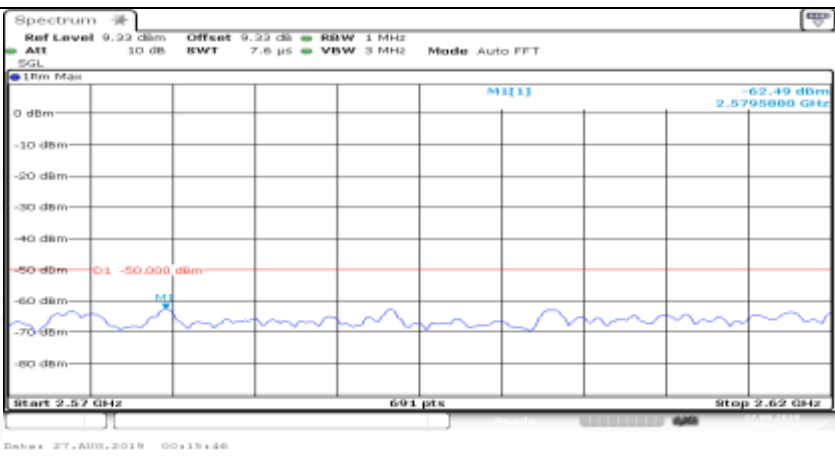
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0	
General	

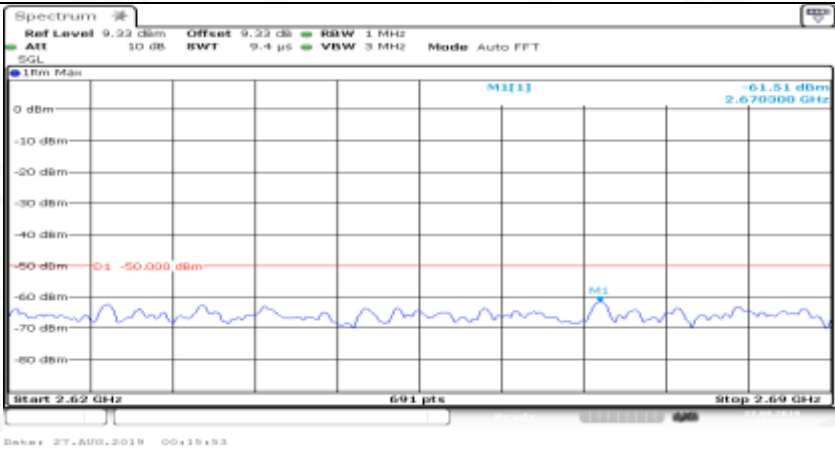
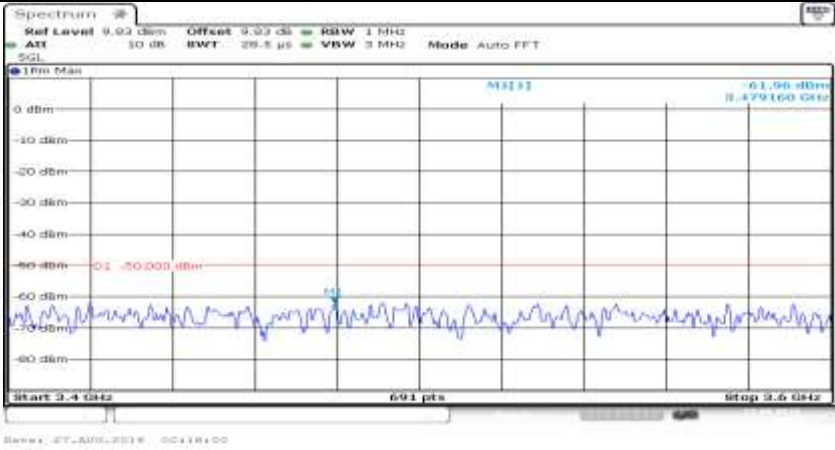
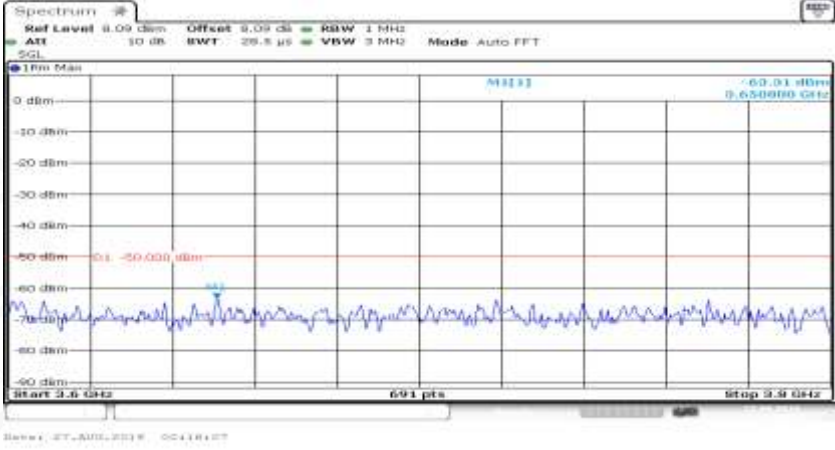
General	
General	
General	

General	
General	
Co-existence	

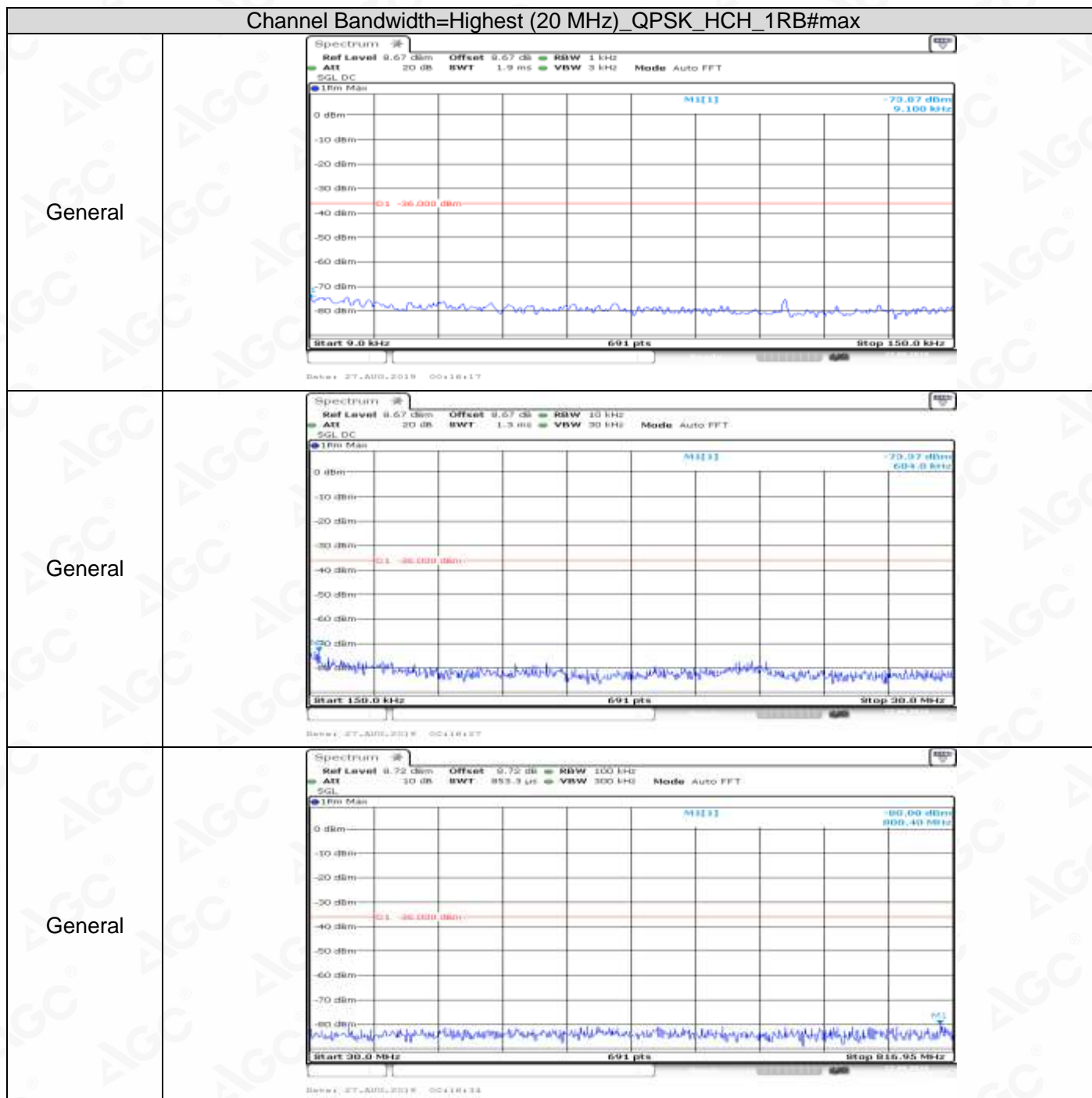
Co-existence	
Co-existence	
Co-existence	

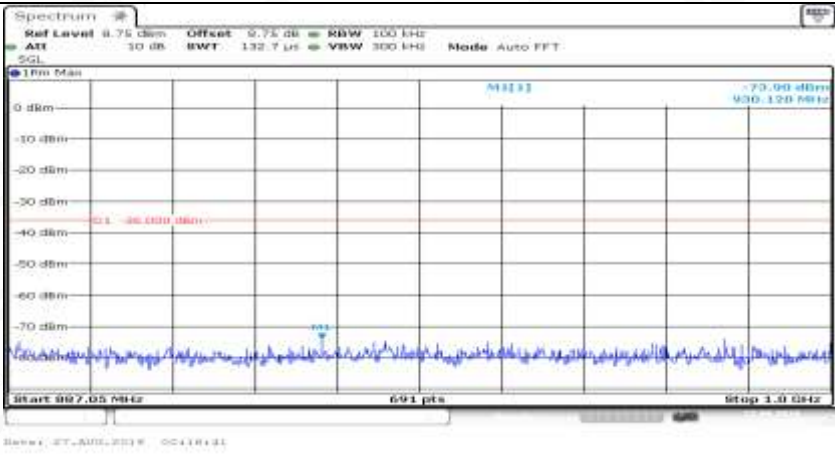
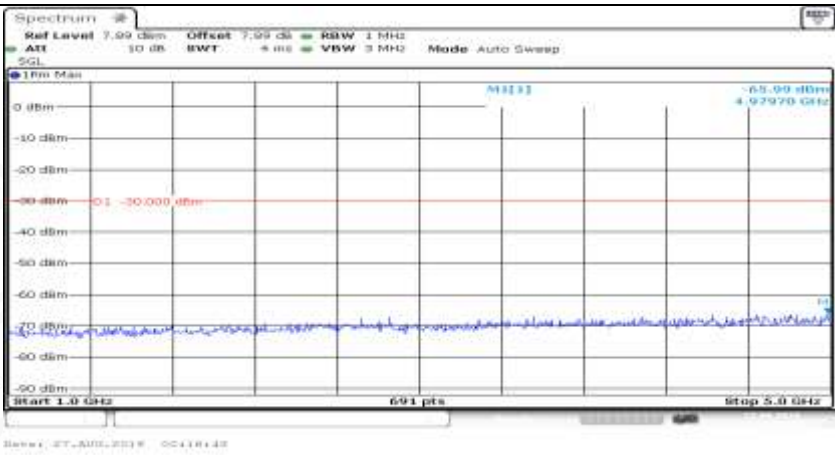
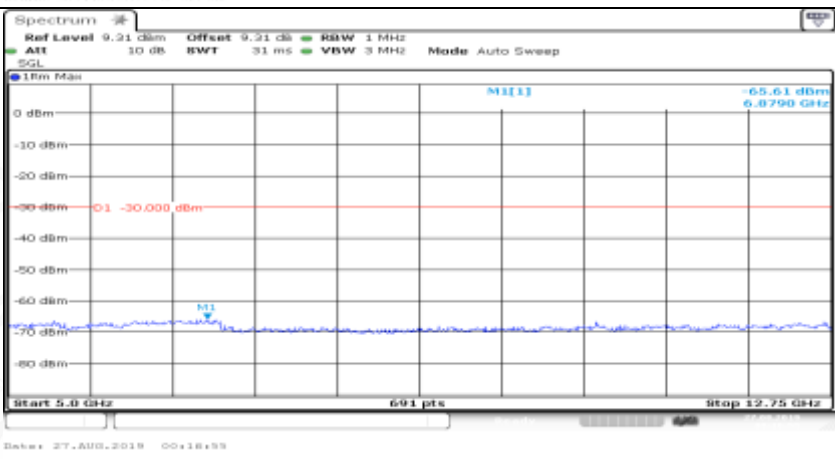


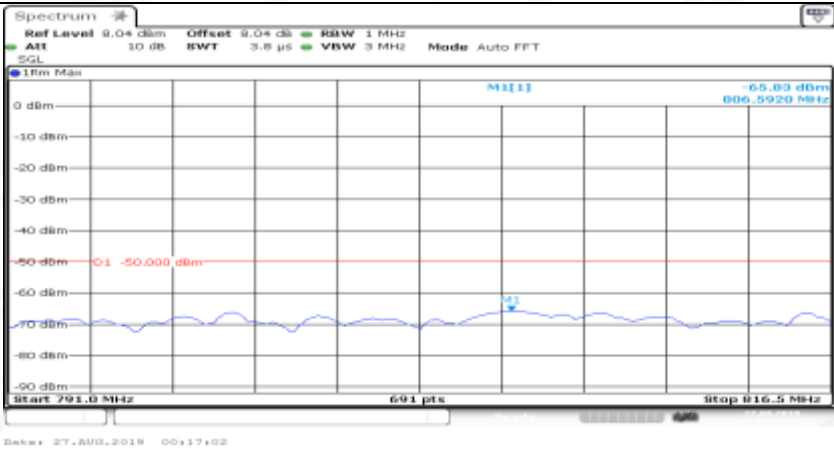
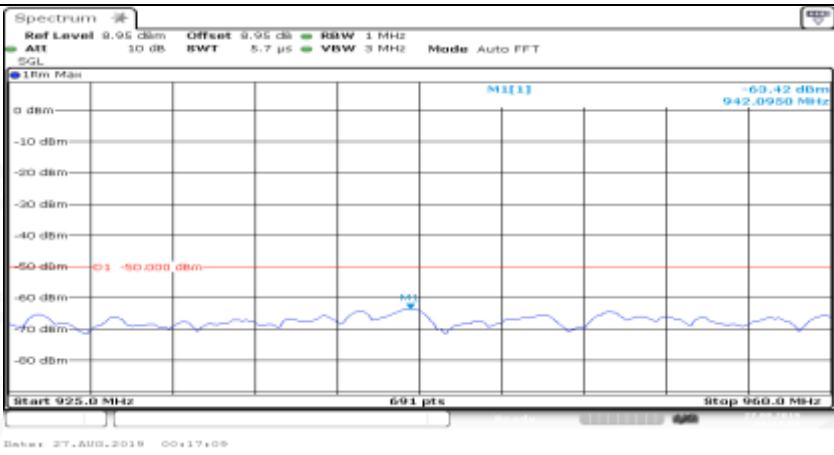

Co-existence	 <p>Spectrum plot showing Co-existence test results. The plot displays a signal level of -66.55 dBm at 2.0227108 GHz. The x-axis ranges from 2.01 GHz to 2.025 GHz. The y-axis ranges from 0 dBm to -90 dBm. The plot includes a red line at -50.000 dBm and a blue line representing the signal level. The plot is labeled 'M1[1]' and 'M2'.</p>
Co-existence	 <p>Spectrum plot showing Co-existence test results. The plot displays a signal level of -64.00 dBm at 2.1202890 GHz. The x-axis ranges from 2.11 GHz to 2.17 GHz. The y-axis ranges from 0 dBm to -90 dBm. The plot includes a red line at -50.000 dBm and a blue line representing the signal level. The plot is labeled 'M1[1]' and 'M2'.</p>
Co-existence	 <p>Spectrum plot showing Co-existence test results. The plot displays a signal level of -62.49 dBm at 2.5795880 GHz. The x-axis ranges from 2.57 GHz to 2.62 GHz. The y-axis ranges from 0 dBm to -90 dBm. The plot includes a red line at -50.000 dBm and a blue line representing the signal level. The plot is labeled 'M1[1]' and 'M2'.</p>

Co-existence	
Co-existence	
Co-existence	
Additional	NA

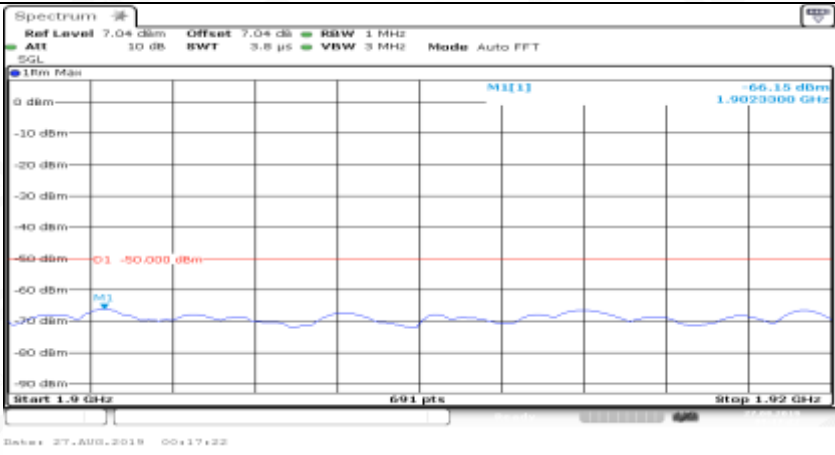
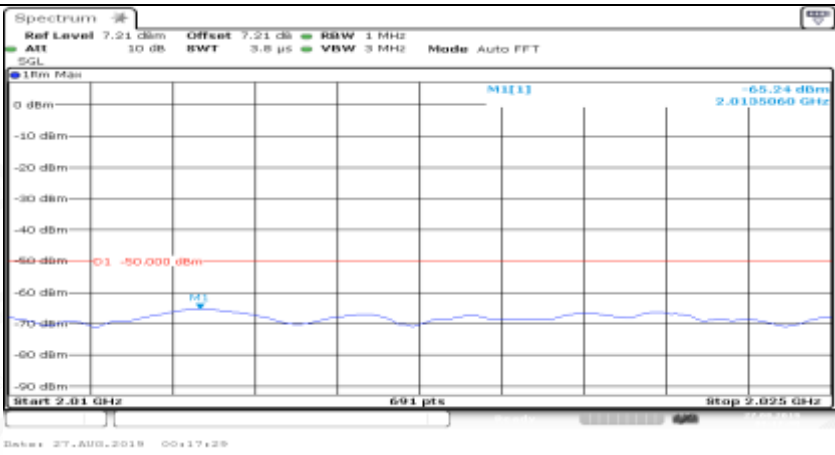

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max

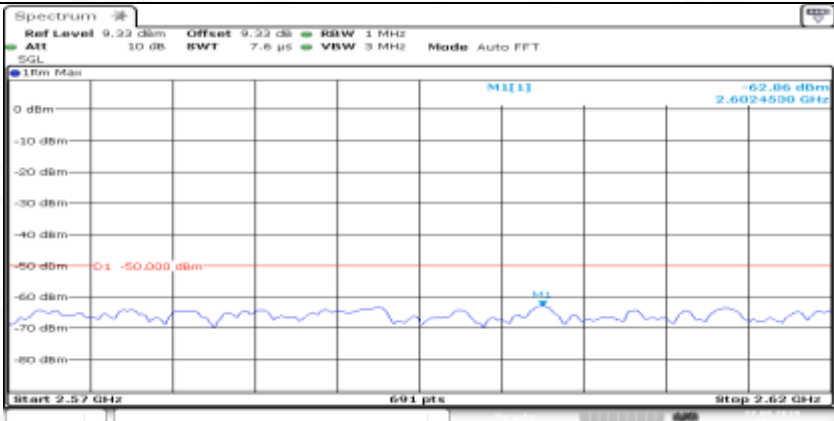
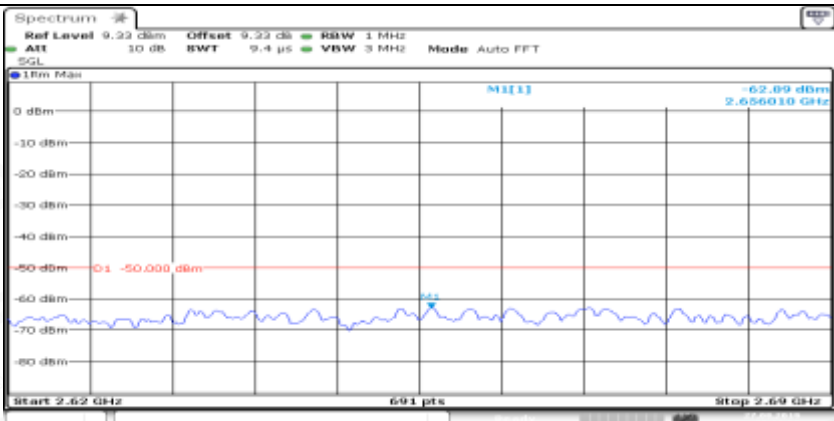
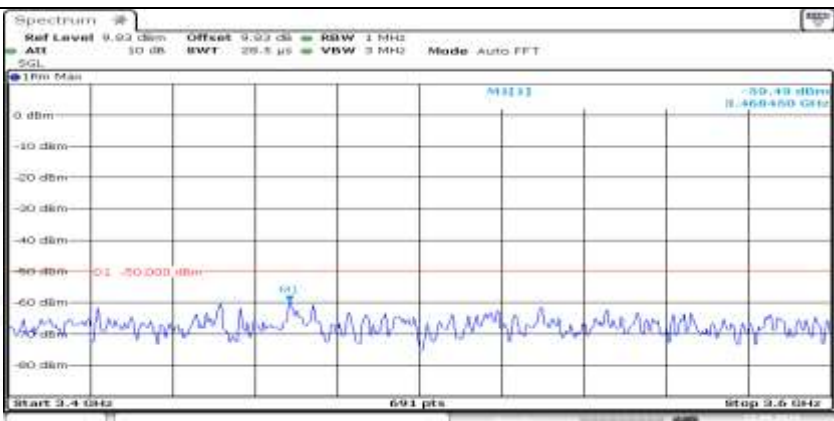


General	
General	
General	

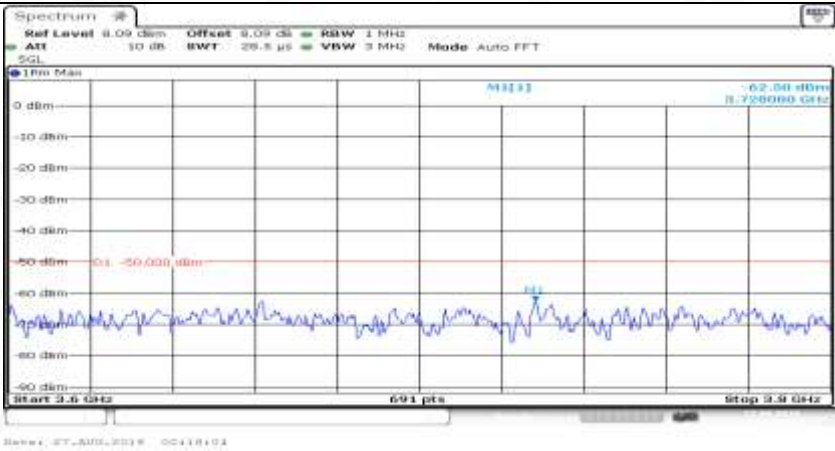
Co-existence	
Co-existence	
Co-existence	



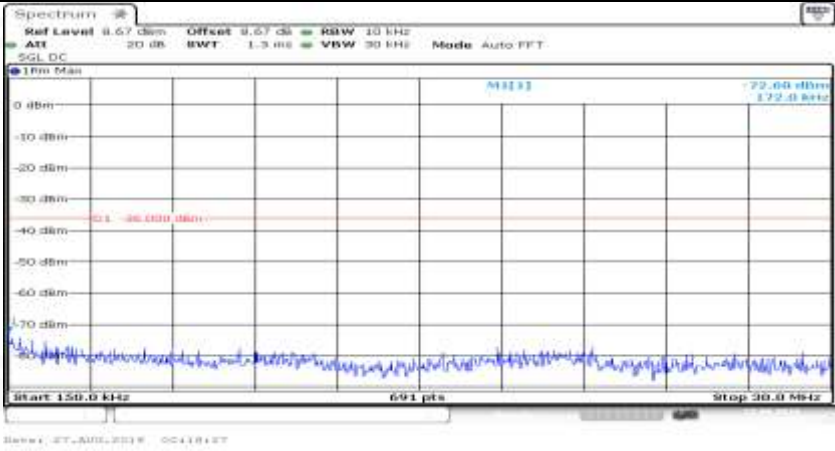
Co-existence	
Co-existence	
Co-existence	

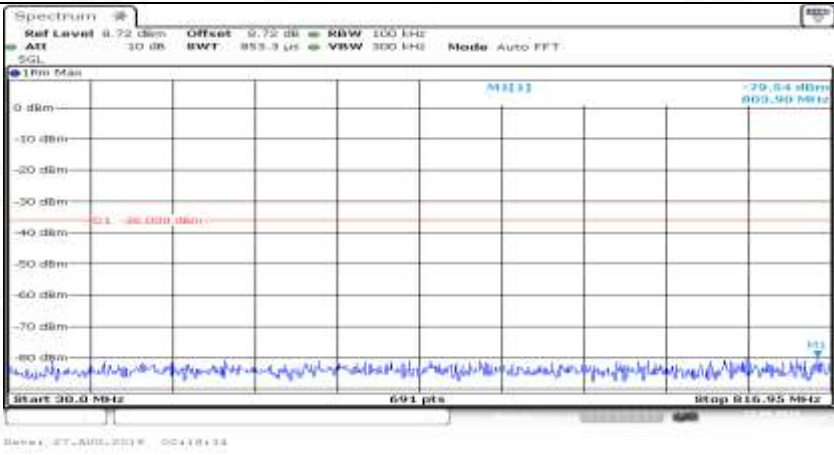
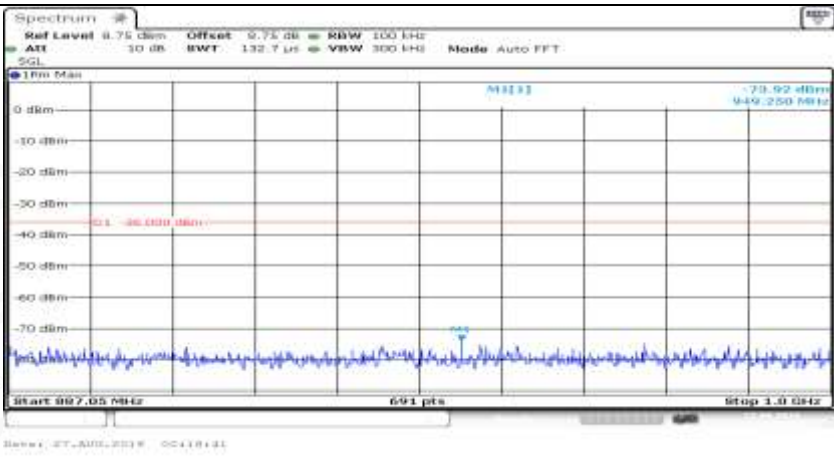
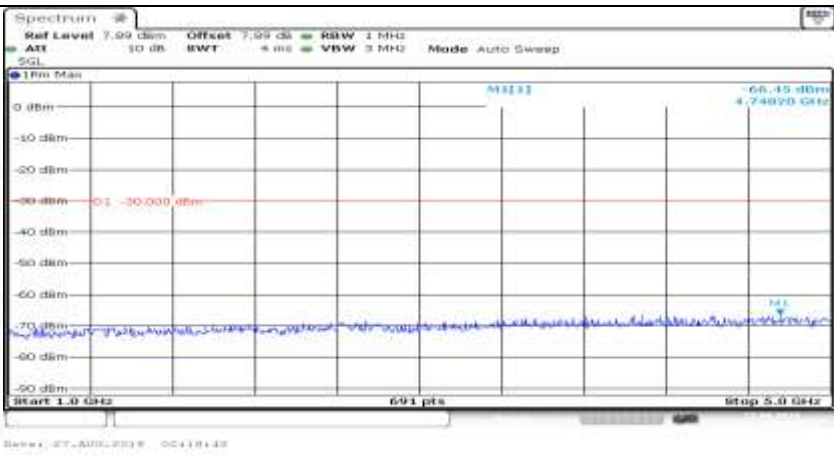
Co-existence	
Co-existence	
Co-existence	



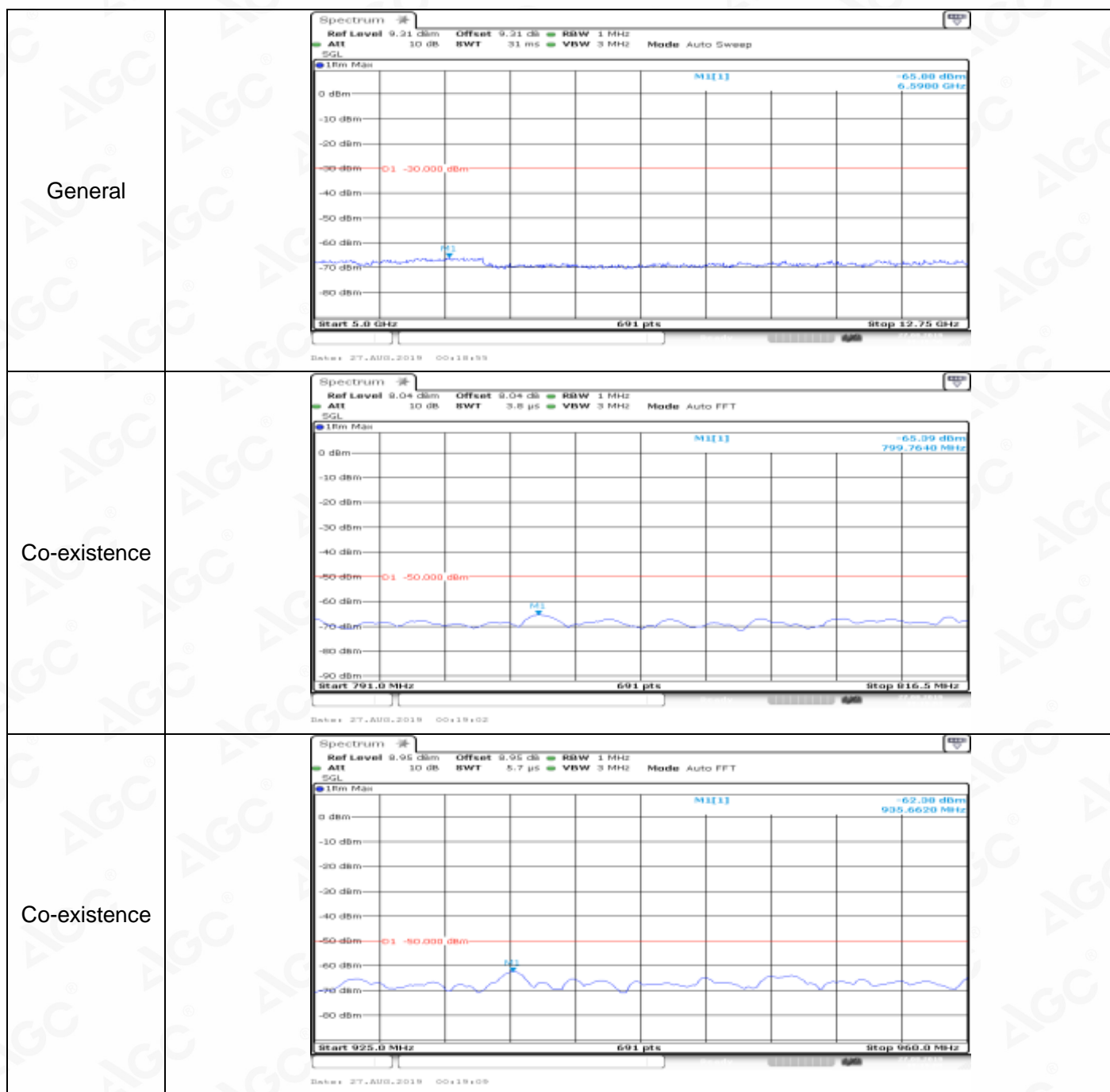
Co-existence	
Additional	NA

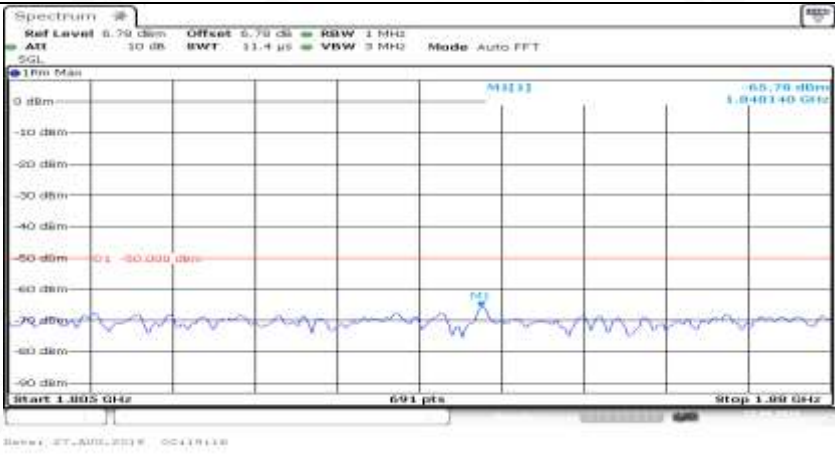
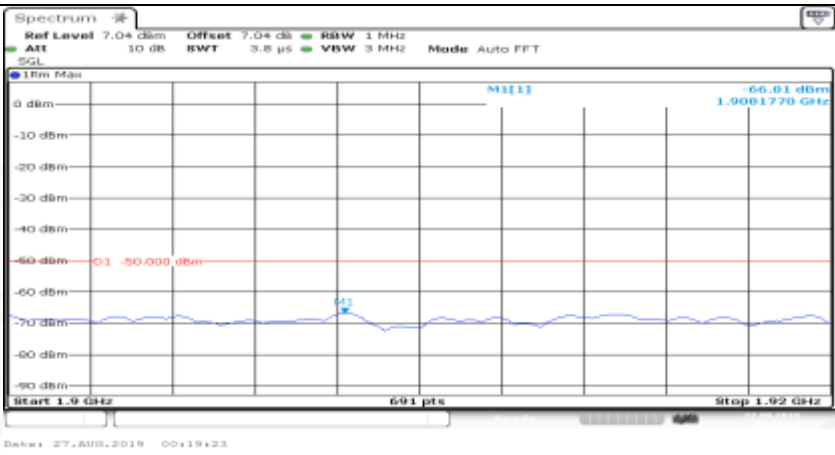
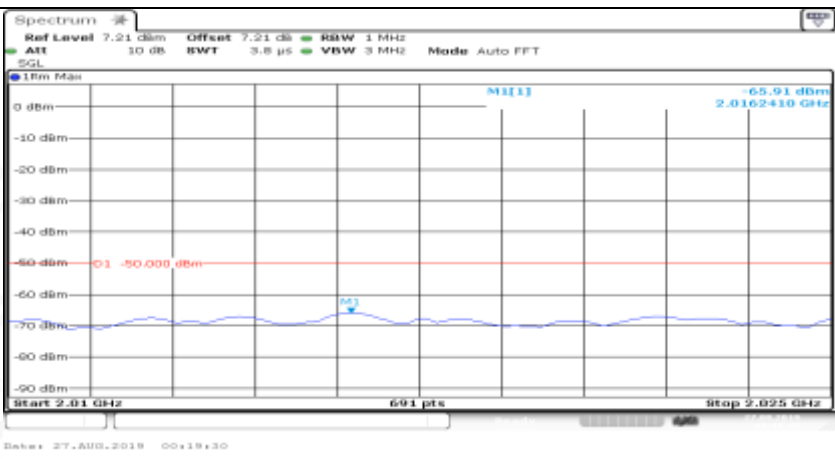
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullRB#0

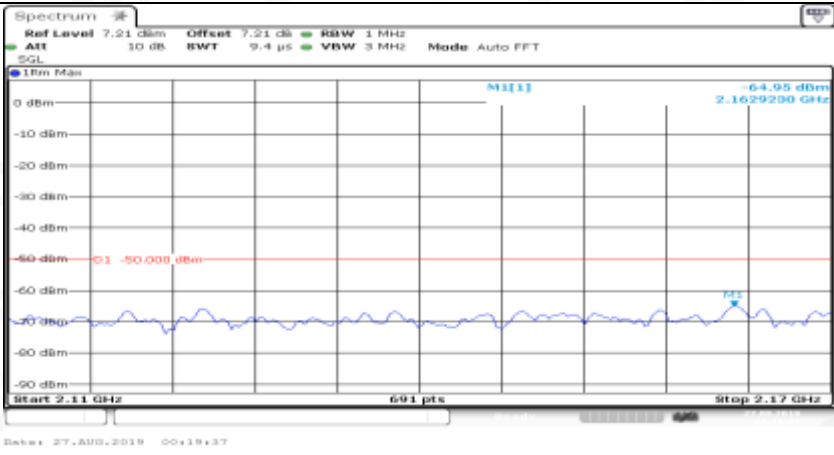
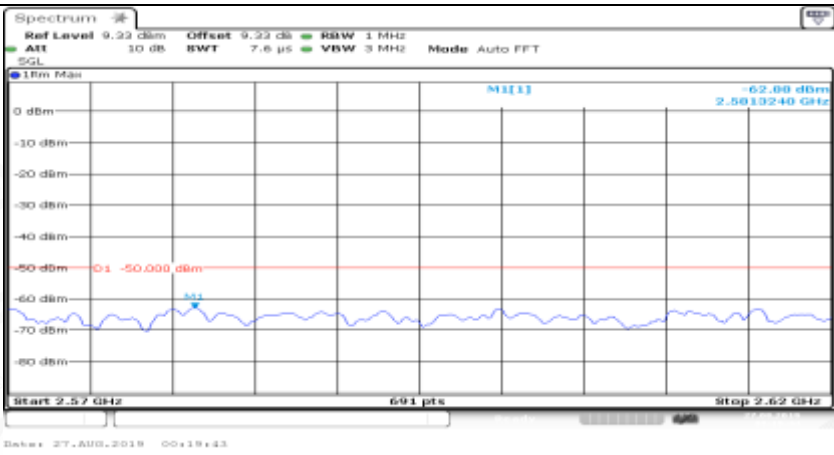
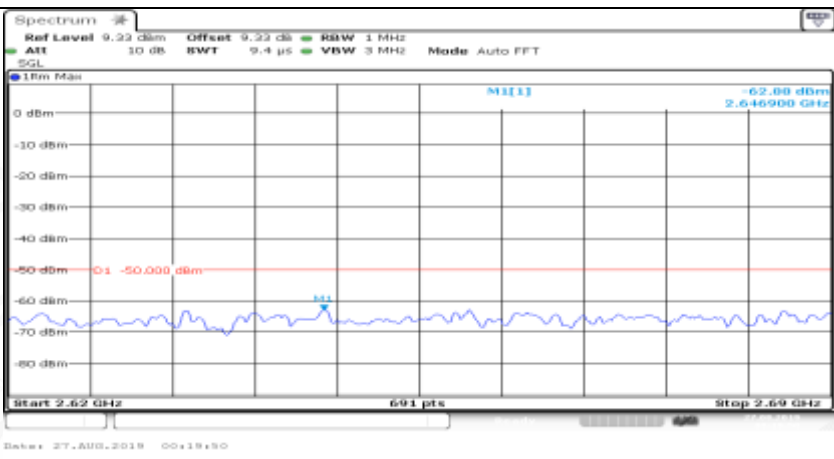
General	
General	

General	
General	
General	

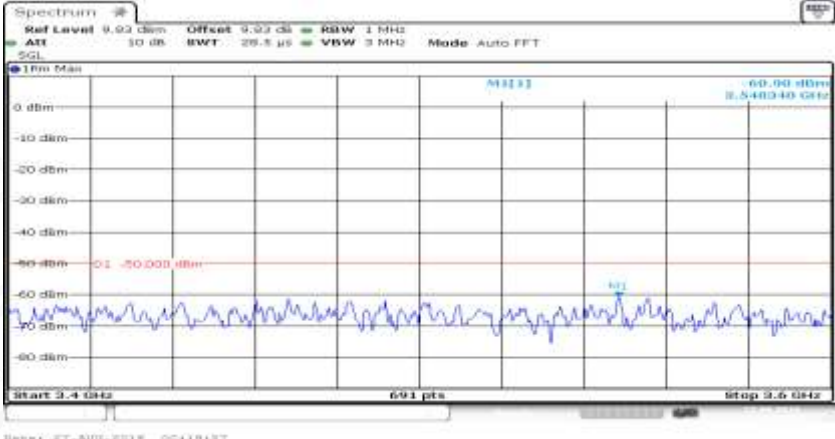
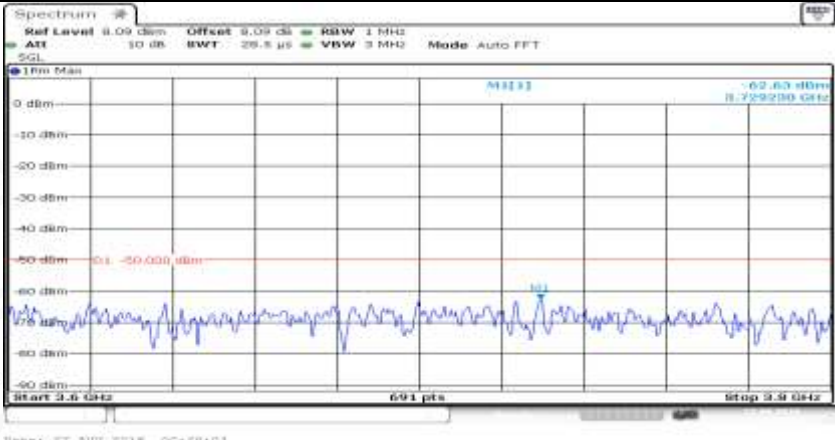




Co-existence	
Co-existence	
Co-existence	

Co-existence	
Co-existence	
Co-existence	



Co-existence	
Co-existence	
Additional	NA

6. Receiver Spurious Emissions

Test Result

NTNV

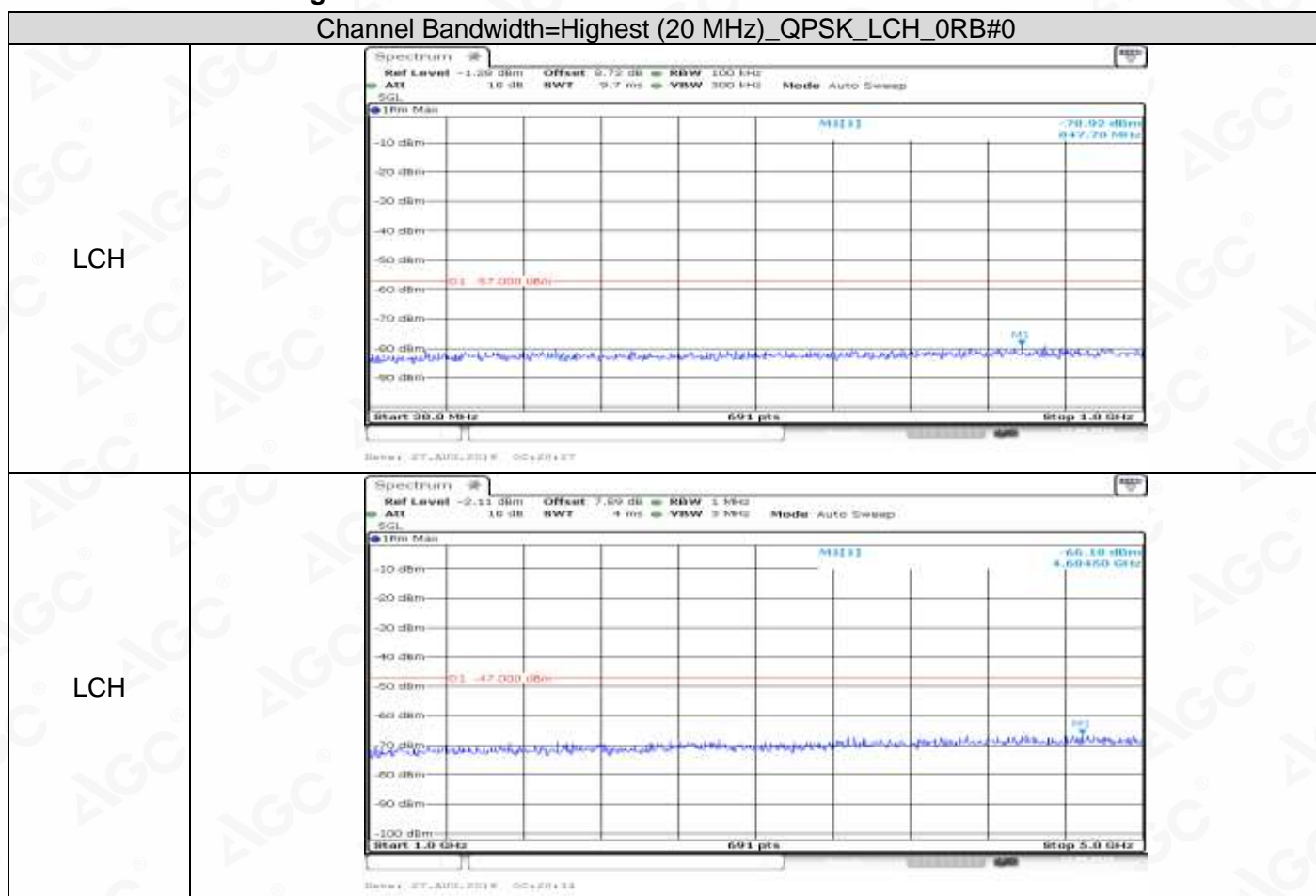
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

Test Graphs

NTNV

Channel Bandwidth=Highest



Attestation of Global Compliance

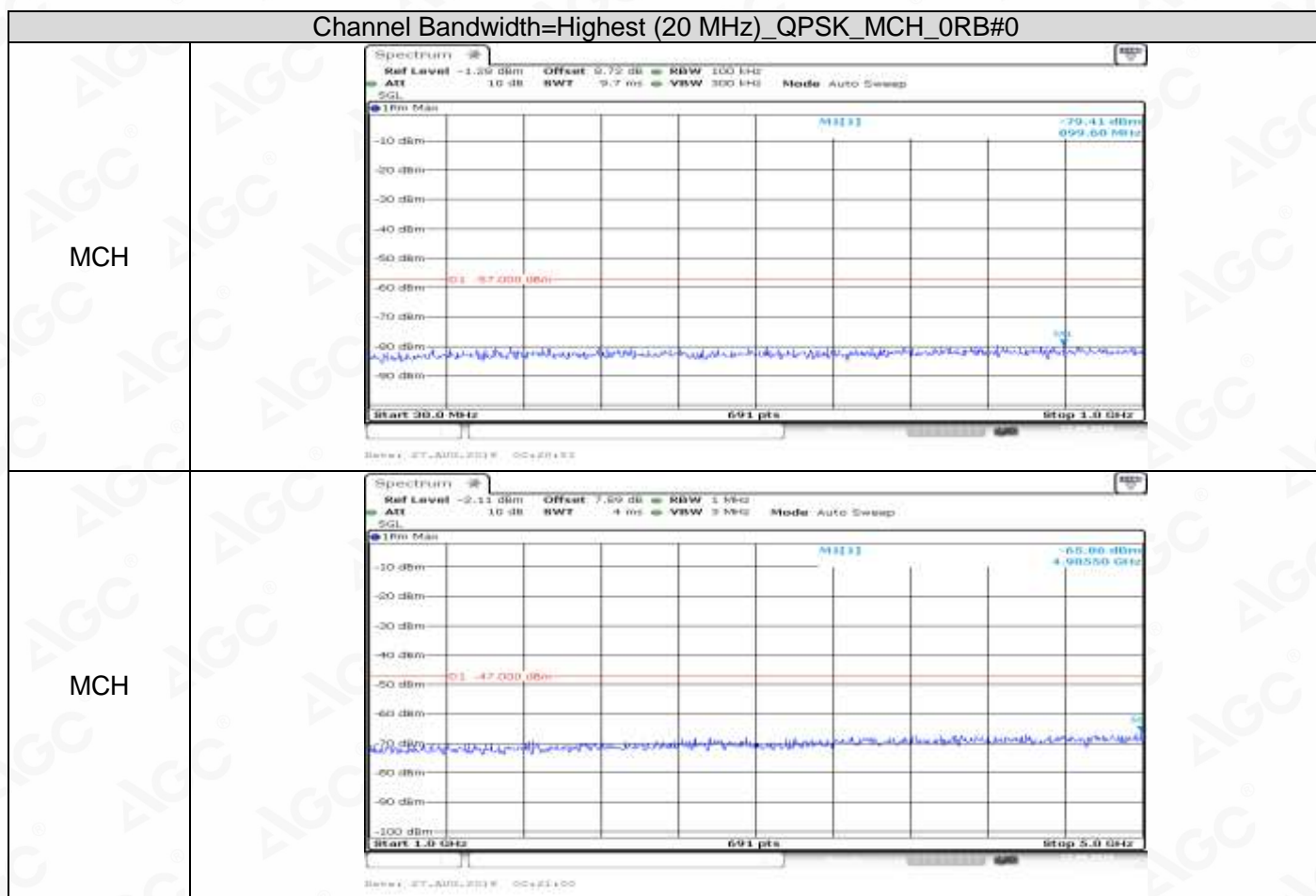
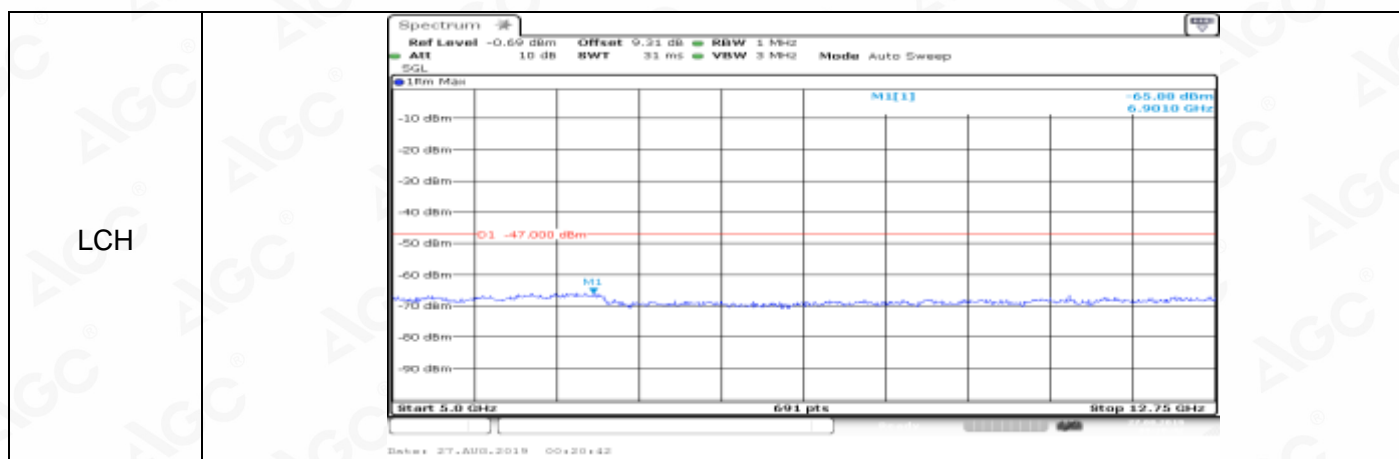
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

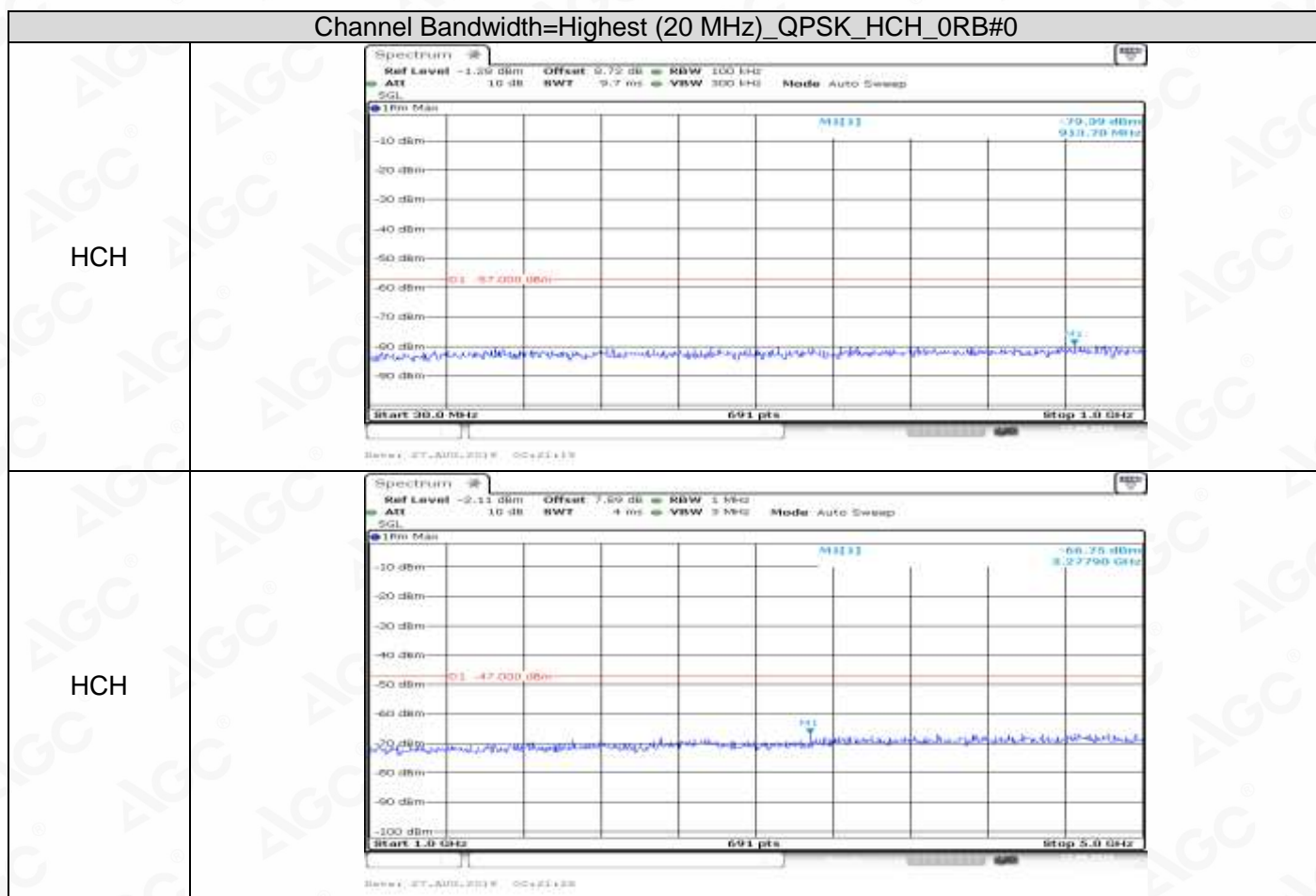
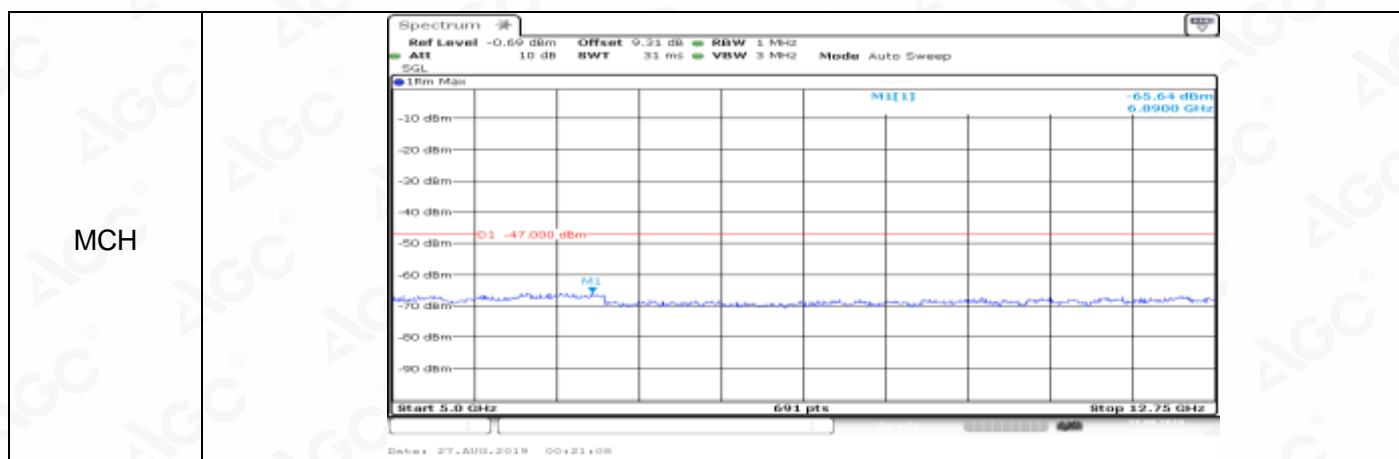
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

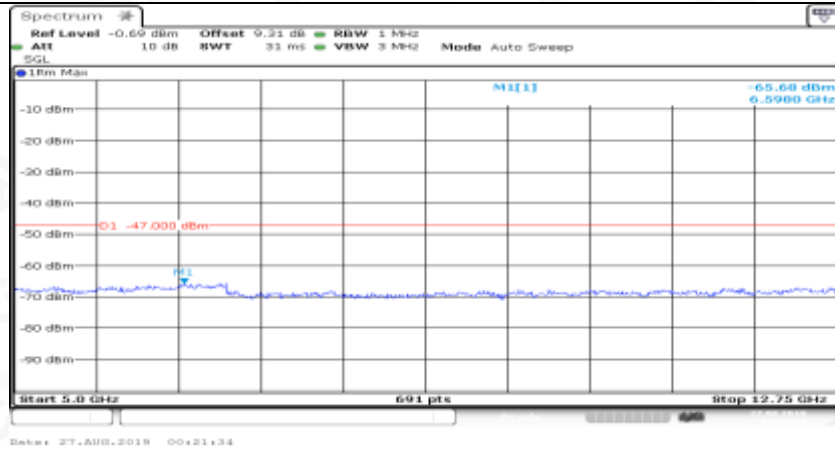
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118





HCH



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

7. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



8. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 5MHz, Highest 20MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



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9. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				



10. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 20			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					



11. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

NTNV

	Test Band			Band 20			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TN,VN	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					



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12. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-69.94	-70.23	-70.61
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-67.11	-67.47	-67.92
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-67.37	-67.88	-68.41



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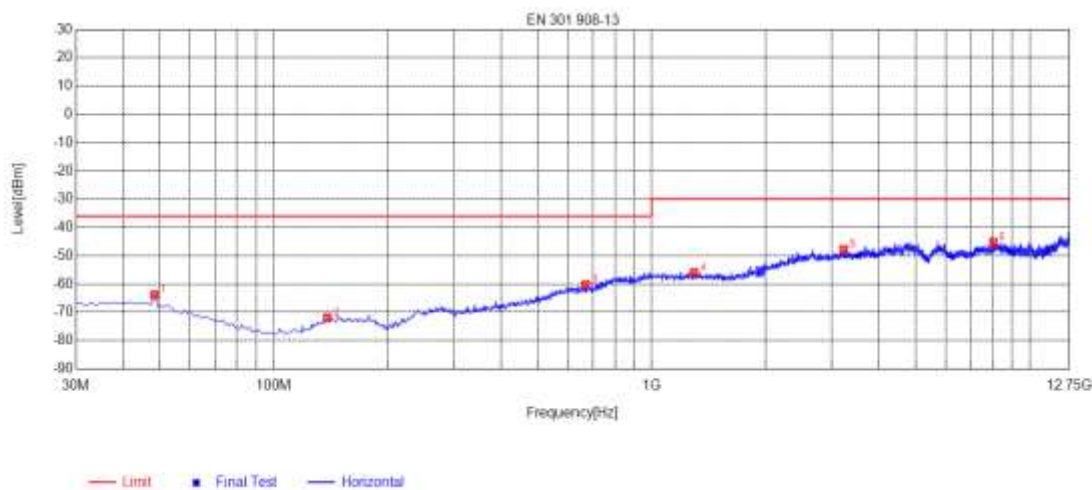
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APPENDIX F. RADIATED SPURIOUS EMISSIONS

Radiated spurious emissions LTE band 1– Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-97.73	-63.86	-36.00	27.86	33.87	205	Horizontal
2	138.6400	-101.10	-71.98	-36.00	35.98	29.12	180	Horizontal
3	669.2300	-100.30	-60.26	-36.00	24.26	40.04	360	Horizontal
4	1296.1592	-52.34	-55.98	-30.00	25.98	-3.64	323	Horizontal
5	3225.8952	-53.48	-47.79	-30.00	17.79	5.69	163	Horizontal
6	8018.5037	-58.13	-45.30	-30.00	15.30	12.83	289	Horizontal



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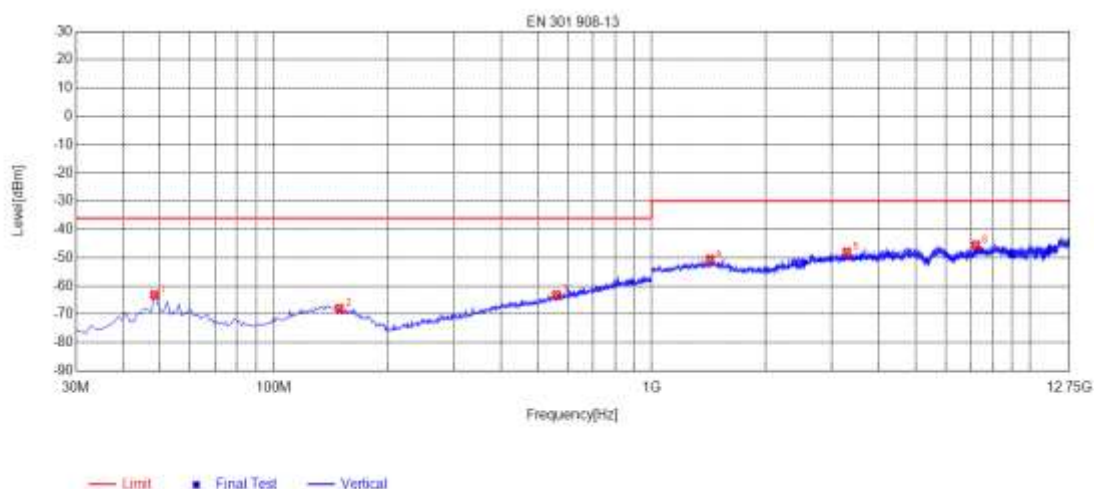
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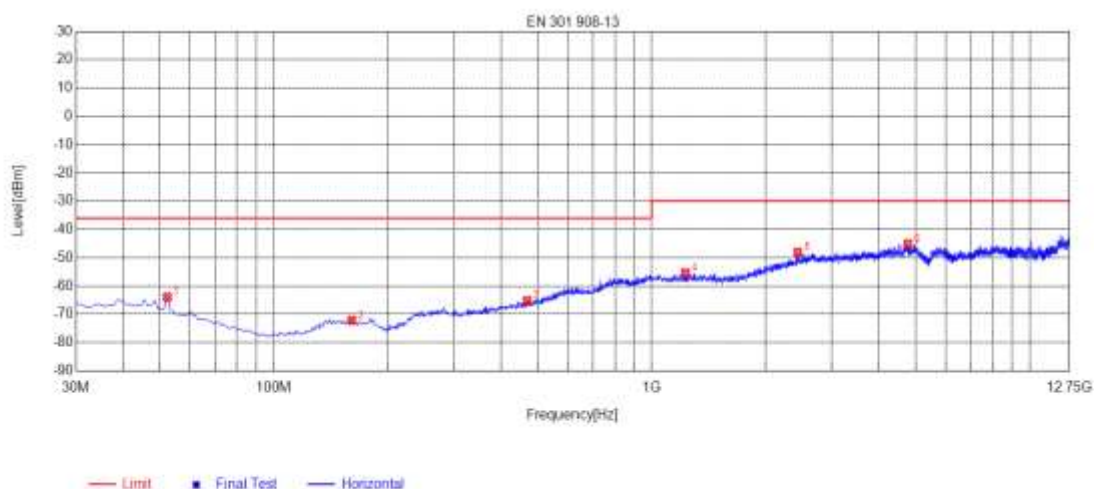
Radiated spurious emissions LTE band 1– Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-92.67	-63.12	-36.00	27.12	29.55	0	Vertical
2	149.3100	-101.73	-67.98	-36.00	31.98	33.75	116	Vertical
3	559.6200	-100.96	-63.19	-36.00	27.19	37.77	158	Vertical
4	1427.7856	-52.27	-50.59	-30.00	20.59	1.68	0	Vertical
5	3282.3065	-53.74	-48.05	-30.00	18.05	5.69	91	Vertical
6	7202.8906	-58.36	-45.51	-30.00	15.51	12.85	0	Vertical



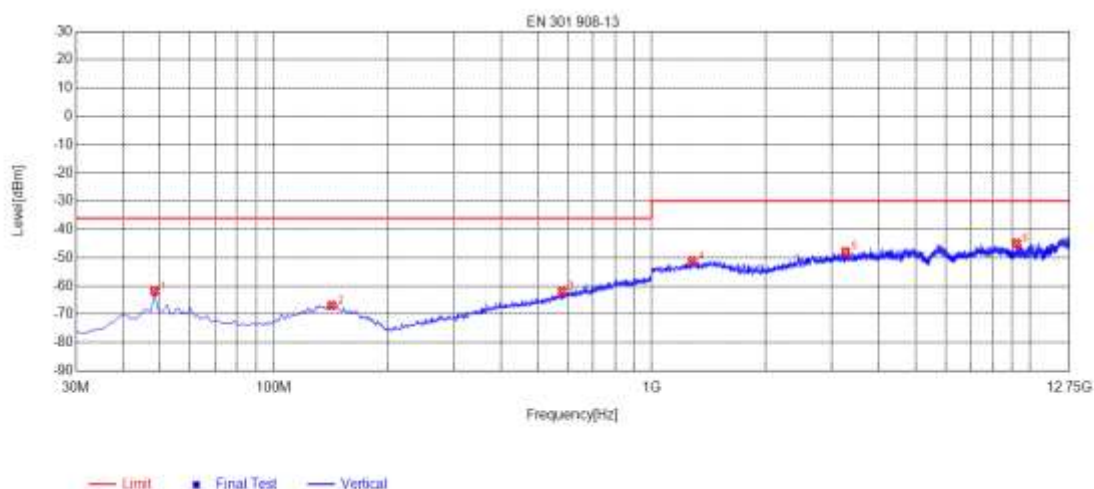
Radiated spurious emissions LTE band 3– Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.3100	-96.90	-63.91	-36.00	27.91	32.99	196	Horizontal
2	160.9500	-101.50	-72.18	-36.00	36.18	29.32	348	Horizontal
3	468.4400	-100.92	-65.19	-36.00	29.19	35.73	1	Horizontal
4	1227.9956	-51.60	-55.38	-30.00	25.38	-3.78	145	Horizontal
5	2438.4877	-52.01	-48.05	-30.00	18.05	3.96	247	Horizontal
6	4767.8036	-54.75	-45.13	-30.00	15.13	9.62	360	Horizontal



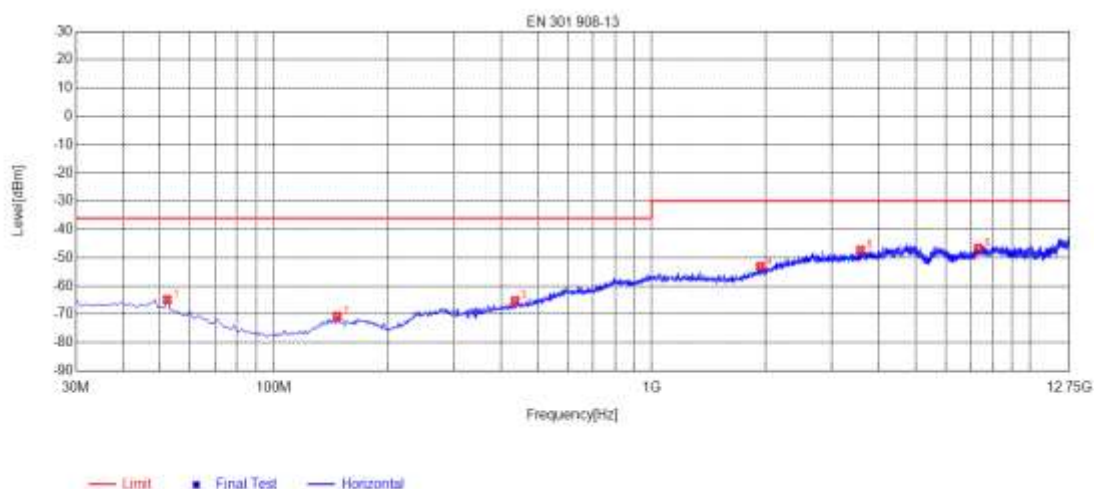
Radiated spurious emissions LTE band 3– Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-91.31	-61.76	-36.00	25.76	29.55	0	Vertical
2	142.5200	-101.10	-66.88	-36.00	30.88	34.22	80	Vertical
3	579.9900	-100.27	-62.02	-36.00	26.02	38.25	147	Vertical
4	1279.7059	-51.79	-51.09	-30.00	21.09	0.70	257	Vertical
5	3261.1522	-53.54	-47.89	-30.00	17.89	5.65	240	Vertical
6	9238.3977	-58.85	-44.92	-30.00	14.92	13.93	0	Vertical



Radiated spurious emissions LTE band 7– Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.3100	-97.85	-64.86	-36.00	28.86	32.99	10	Horizontal
2	147.3700	-100.06	-70.71	-36.00	34.71	29.35	271	Horizontal
3	435.4600	-100.30	-65.20	-36.00	29.20	35.10	36	Horizontal
4	1937.8376	-53.17	-53.10	-30.00	23.10	0.07	212	Horizontal
5	3569.0638	-53.75	-47.35	-30.00	17.35	6.40	297	Horizontal
6	7313.3627	-59.54	-46.62	-30.00	16.62	12.92	280	Horizontal



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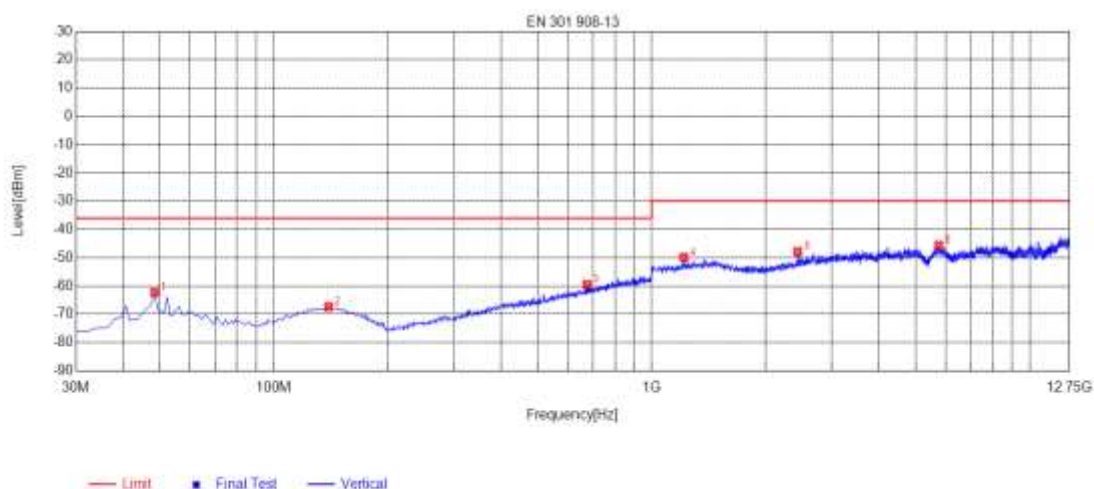
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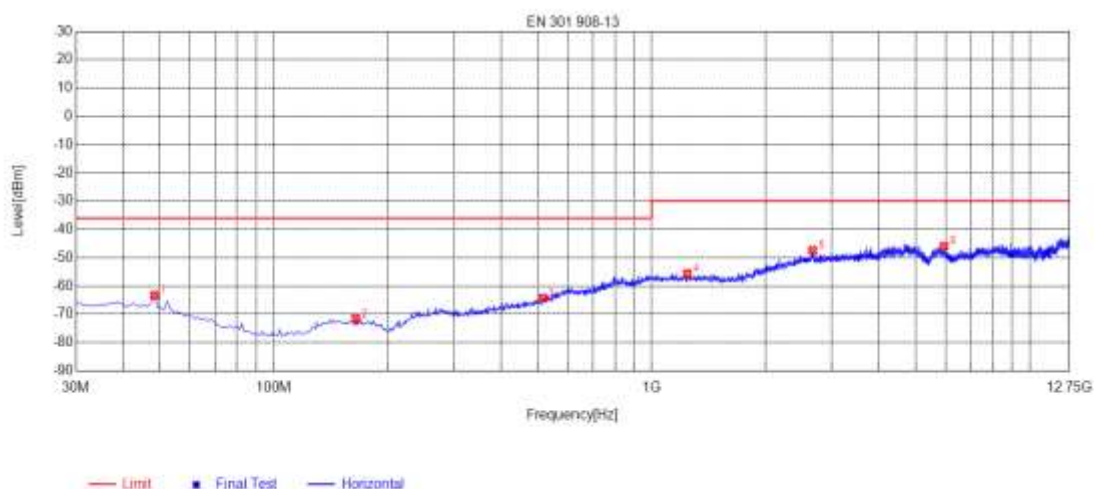
Radiated spurious emissions LTE band 7– Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-91.83	-62.28	-36.00	26.28	29.55	307	Vertical
2	139.6100	-101.73	-67.37	-36.00	31.37	34.36	231	Vertical
3	674.0800	-99.54	-59.53	-36.00	23.53	40.01	273	Vertical
4	1216.2432	-50.14	-49.86	-30.00	19.86	0.28	189	Vertical
5	2436.1372	-51.00	-47.83	-30.00	17.83	3.17	231	Vertical
6	5747.9496	-56.13	-45.63	-30.00	15.63	10.50	231	Vertical



Radiated spurious emissions LTE band 8– Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-97.15	-63.28	-36.00	27.28	33.87	301	Horizontal
2	164.8300	-100.91	-71.54	-36.00	35.54	29.37	102	Horizontal
3	515.0000	-101.15	-64.29	-36.00	28.29	36.86	35	Horizontal
4	1242.0984	-51.89	-55.64	-30.00	25.64	-3.75	9	Horizontal
5	2666.4833	-52.19	-47.47	-30.00	17.47	4.72	137	Horizontal
6	5933.6367	-56.67	-45.99	-30.00	15.99	10.68	232	Horizontal



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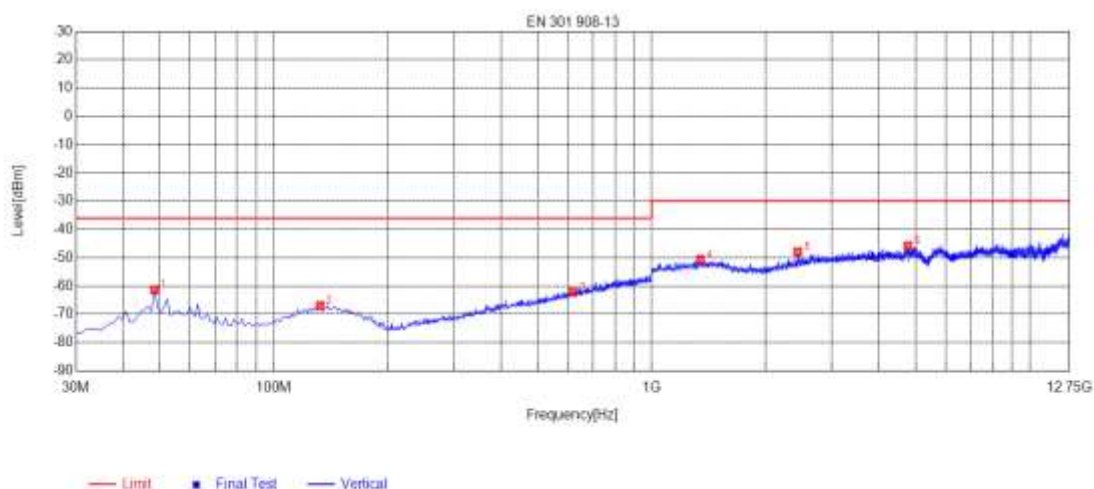
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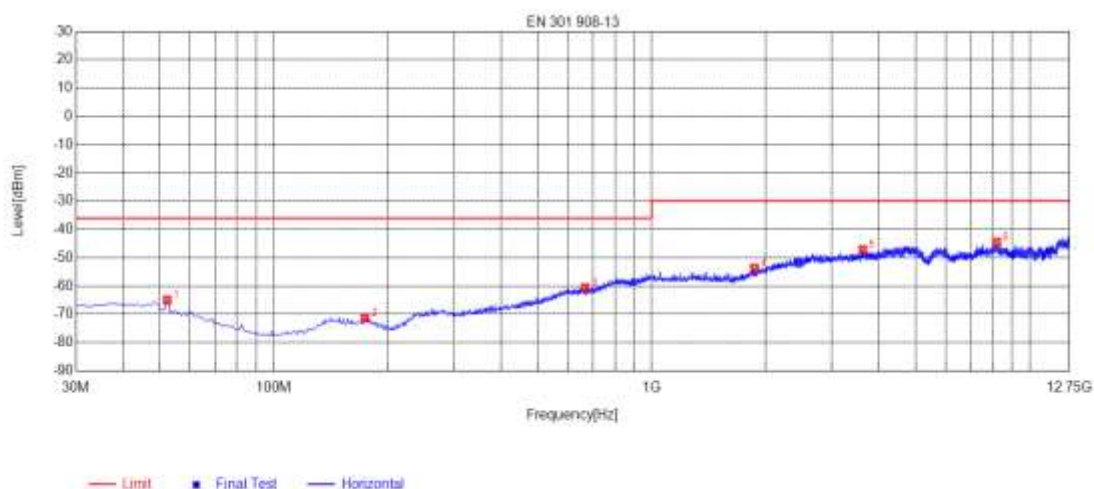
Radiated spurious emissions LTE band 8– Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-90.87	-61.32	-36.00	25.32	29.55	341	Vertical
2	132.8200	-100.82	-66.91	-36.00	30.91	33.91	156	Vertical
3	618.7900	-101.20	-62.16	-36.00	26.16	39.04	71	Vertical
4	1345.5191	-51.78	-50.65	-30.00	20.65	1.13	122	Vertical
5	2438.4877	-51.10	-47.92	-30.00	17.92	3.18	71	Vertical
6	4767.8036	-54.34	-45.83	-30.00	15.83	8.51	46	Vertical



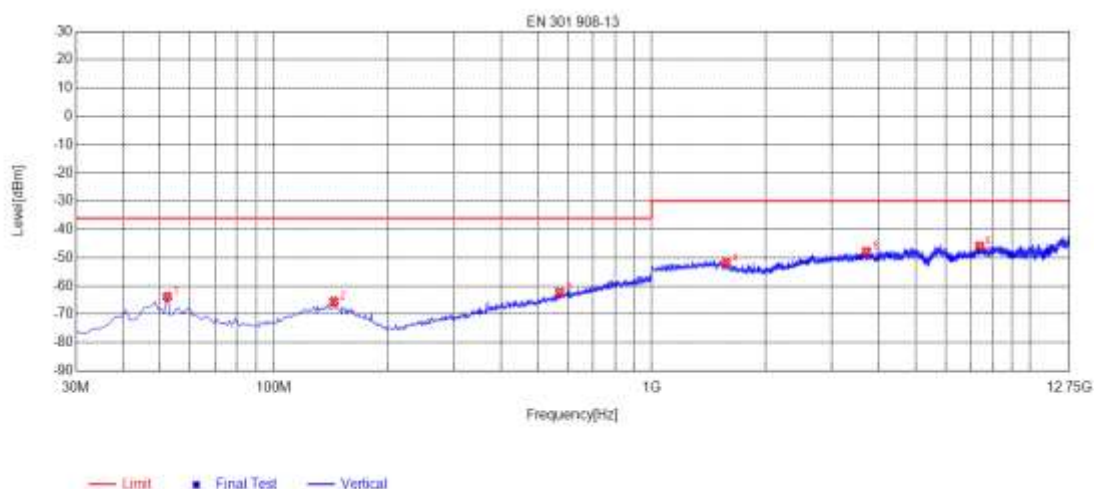
Radiated spurious emissions LTE band 20– Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.3100	-97.98	-64.99	-36.00	28.99	32.99	190	Horizontal
2	174.5300	-100.79	-71.31	-36.00	35.31	29.48	325	Horizontal
3	666.3200	-100.62	-60.59	-36.00	24.59	40.03	114	Horizontal
4	1869.6739	-53.26	-53.70	-30.00	23.70	-0.44	62	Horizontal
5	3618.4237	-53.72	-47.17	-30.00	17.17	6.55	9	Horizontal
6	8187.7375	-57.38	-44.51	-30.00	14.51	12.87	182	Horizontal



Radiated spurious emissions LTE band 20– Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.3100	-93.95	-63.78	-36.00	27.78	30.17	21	Vertical
2	144.4600	-99.51	-65.43	-36.00	29.43	34.08	307	Vertical
3	571.2600	-100.35	-62.31	-36.00	26.31	38.04	307	Vertical
4	1575.8652	-53.73	-51.84	-30.00	21.84	1.89	359	Vertical
5	3703.0406	-54.39	-47.83	-30.00	17.83	6.56	350	Vertical
6	7374.4749	-59.33	-45.90	-30.00	15.90	13.43	63	Vertical



APPENDIX G: PHOTOGRAPHS OF TEST SETUP
RADIATED SPURIOUS EMISSION TEST



RADIATED SPURIOUS EMISSION-ABOVE 1G TEST



----END OF REPORT----