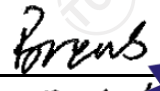




TEST REPORT

FCC ID..... :	2AHZ5T30	
Test Report No..... :	TCT220422E048	
Date of issue..... :	May 17, 2022	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Shenzhen Huafurui Technology Co., Ltd	
Address..... :	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street, Xili, Nan shan district, Shenzhen, China	
Manufacturer's name ... :	Shenzhen Huafurui Technology Co., Ltd	
Address..... :	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street, Xili, Nan shan district, Shenzhen, China	
Standard(s)	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	
Product Name..... :	Tablet	
Trade Mark	CUBOT	
Model/Type reference..... :	TAB 30	
Rating(s)..... :	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5.0V, 2.0A; DC 9.0V, 2.0A; DC 12.0V, 1.5A 18.0W Rechargeable Li-ion Battery DC 3.8V	
Date of receipt of test item	Apr. 22, 2022	
Date (s) of performance of test..... :	Apr. 22, 2022 - May 17, 2022	
Tested by (+signature) ... :	Brews XU	
Check by (+signature)..... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	



General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name.....:	Tablet
Model/Type reference.....:	TAB 30
Sample Number.....:	TCT220422E002-0101
Operation Frequency	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation.....:	5MHz
Number of Channel	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type.....:	PIFA Antenna
Antenna Gain.....:	1.5dBi
Rating(s).....:	Adapter Information: Model: HJ-FC001K7-US Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5.0V, 2.0A; DC 9.0V, 2.0A; DC 12.0V, 1.5A 18.0W Rechargeable Li-ion Battery DC 3.8V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

1.3. Operation Frequency

For 802.11b/g/n(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	--	--

For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
--	--	4	2427MHz	7	2442MHz	--	--
--	--	5	2432MHz	8	2447MHz	--	--
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	24.1 °C	24.3 °C
Humidity:	47 % RH	45 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	Engineer Mode	
Power Level:	Defaulted	
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery	
The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.		

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

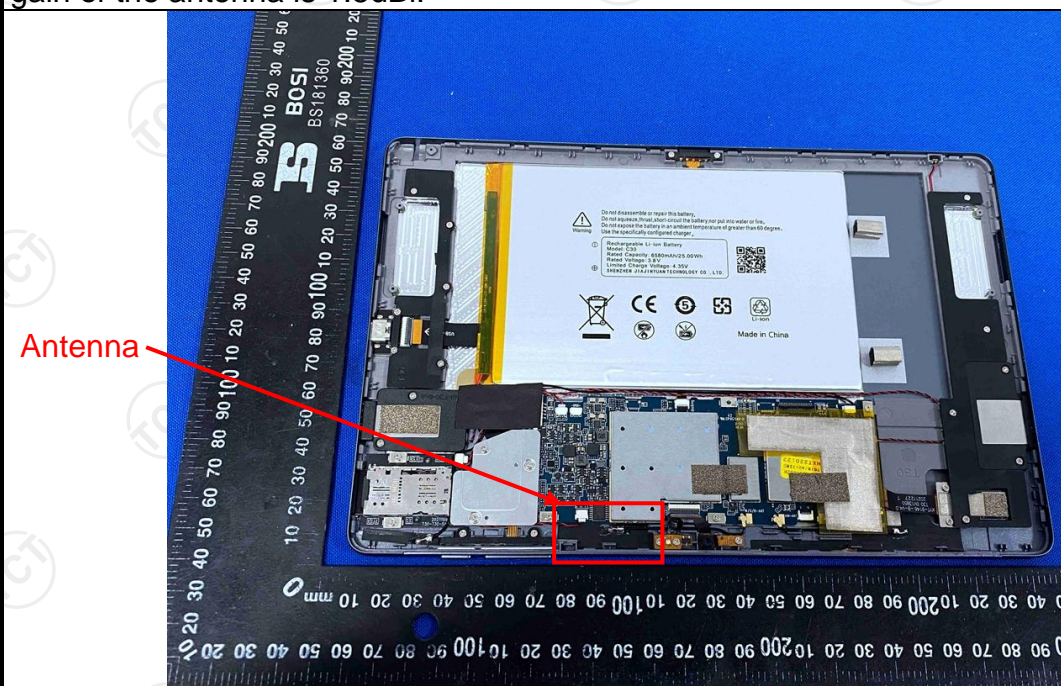
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

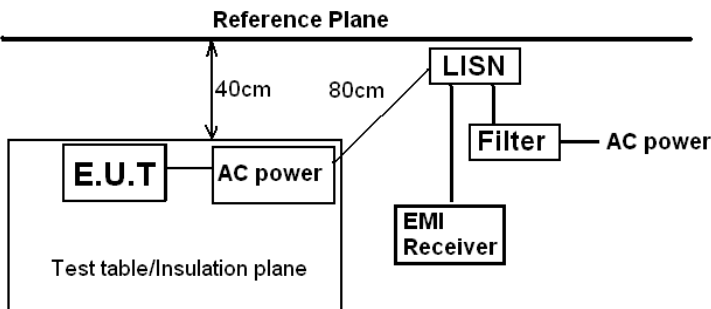
E.U.T Antenna:

The WIFI antenna is PIFA antenna which permanently attached, and the best case gain of the antenna is 1.5dBi.



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<div><p>Reference Plane</p><p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	<div><div>1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</div></div>														
Test Result:	PASS														

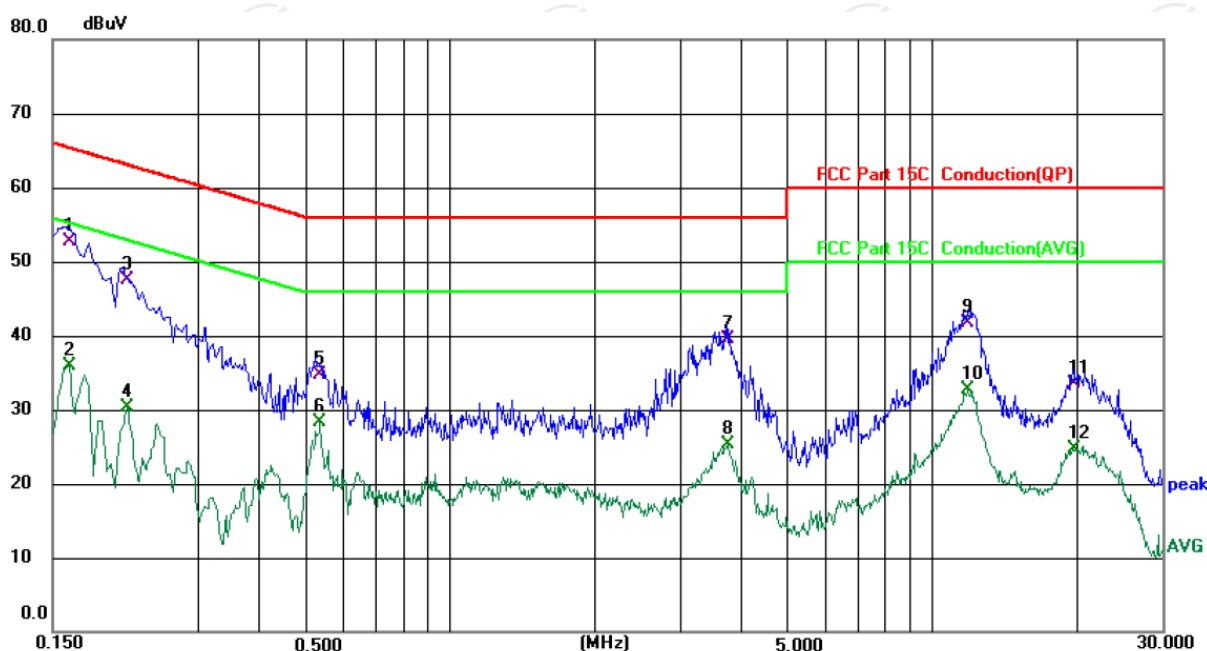
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	TCT	CE-05	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: L1

Temperature: 24.1 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1620	43.11	9.61	52.72	65.36	-12.64	QP	
2		0.1620	26.39	9.61	36.00	55.36	-19.36	AVG	
3		0.2139	37.90	9.55	47.45	63.05	-15.60	QP	
4		0.2139	20.82	9.55	30.37	53.05	-22.68	AVG	
5		0.5380	24.91	9.71	34.62	56.00	-21.38	QP	
6		0.5380	18.66	9.71	28.37	46.00	-17.63	AVG	
7		3.7780	29.59	9.89	39.48	56.00	-16.52	QP	
8		3.7780	15.41	9.89	25.30	46.00	-20.70	AVG	
9		11.8940	31.92	9.80	41.72	60.00	-18.28	QP	
10		11.8940	22.90	9.80	32.70	50.00	-17.30	AVG	
11		19.5539	23.78	9.70	33.48	60.00	-26.52	QP	
12		19.5539	15.00	9.70	24.70	50.00	-25.30	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

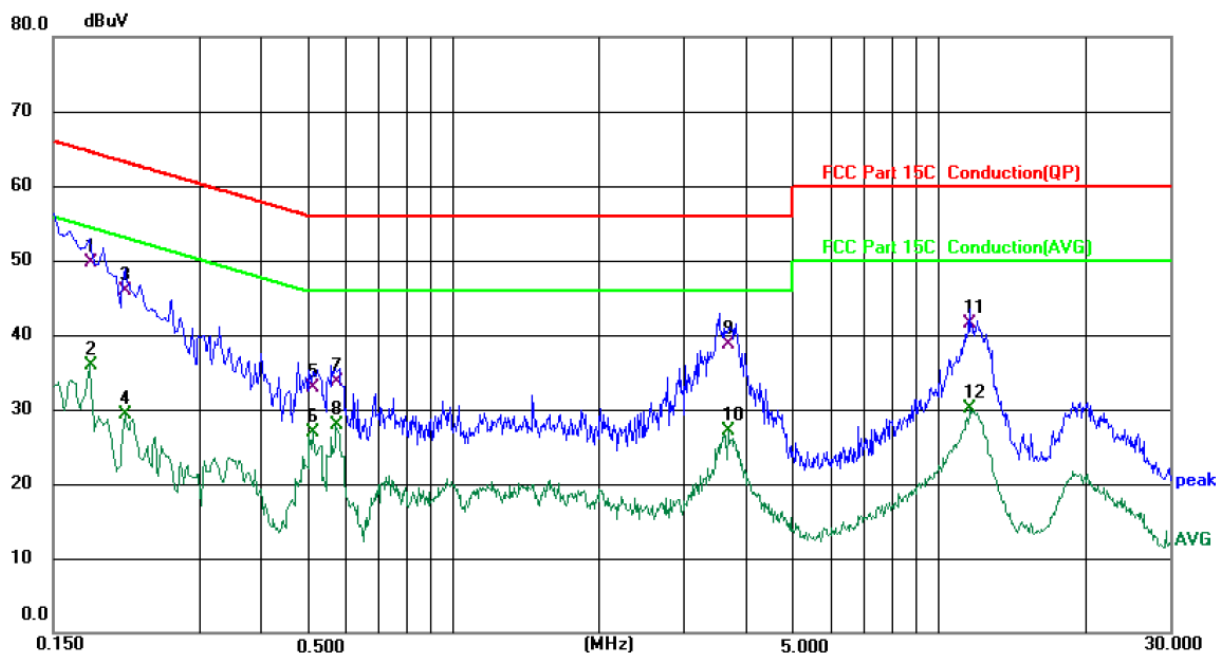
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: N

Temperature: 24.1 (°C)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1780	39.91	9.72	49.63	64.58	-14.95	QP	
2		0.1780	26.28	9.72	36.00	54.58	-18.58	AVG	
3		0.2100	36.32	9.55	45.87	63.21	-17.34	QP	
4		0.2100	19.66	9.55	29.21	53.21	-24.00	AVG	
5		0.5140	23.19	9.70	32.89	56.00	-23.11	QP	
6		0.5140	17.30	9.70	27.00	46.00	-19.00	AVG	
7		0.5740	23.94	9.73	33.67	56.00	-22.33	QP	
8		0.5740	18.15	9.73	27.88	46.00	-18.12	AVG	
9		3.6900	28.99	9.79	38.78	56.00	-17.22	QP	
10		3.6900	17.22	9.79	27.01	46.00	-18.99	AVG	
11		11.6300	31.81	9.71	41.52	60.00	-18.48	QP	
12		11.6300	20.31	9.71	30.02	50.00	-19.98	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

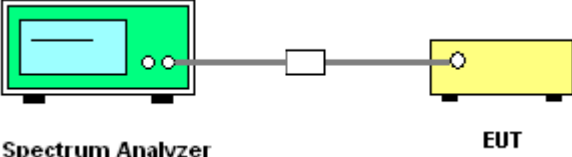
Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification

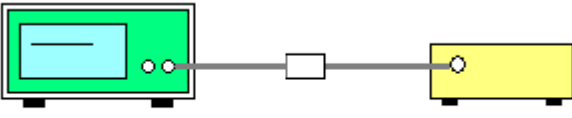
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	 <p>The diagram illustrates the test setup. On the left is a green Spectrum Analyzer. A cable connects it to a small white attenuator block. Another cable connects the attenuator to a yellow EUT (Equipment Under Test) on the right.</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

5.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022

5.4. Emission Bandwidth

5.4.1. Test Specification


Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. Set to the maximum power setting and enable the EUT transmit continuously. 2. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 3. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022

5.5. Power Spectral Density

5.5.1. Test Specification

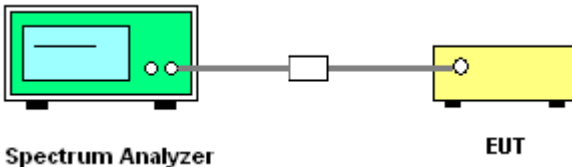
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 4. Detector = RMS, Sweep time = auto couple. 5. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 <p>The diagram illustrates the test setup. On the left is a green box representing the 'Spectrum Analyzer'. A cable connects it to a small white box representing an 'attenuator'. Another cable connects the attenuator to a yellow box representing the 'EUT' (Equipment Under Test).</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

5.6.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Jul. 18, 2022
Antenna Connector	TCT	RFC-01	N/A	Jul. 18, 2022

5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

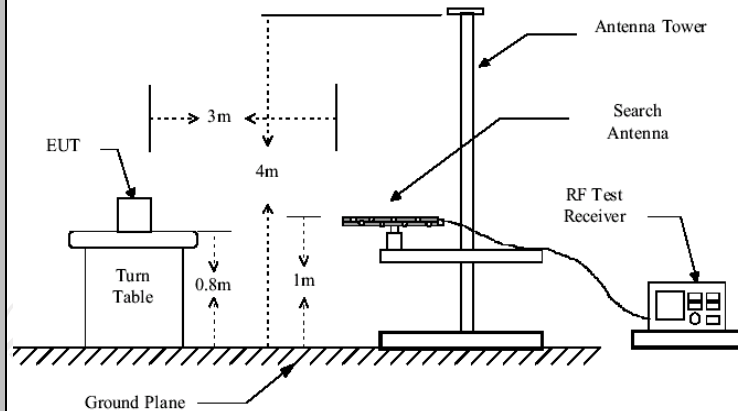
Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10:2013			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Transmitting mode with modulation			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	120KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:				Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	120KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Test setup:				Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	120KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

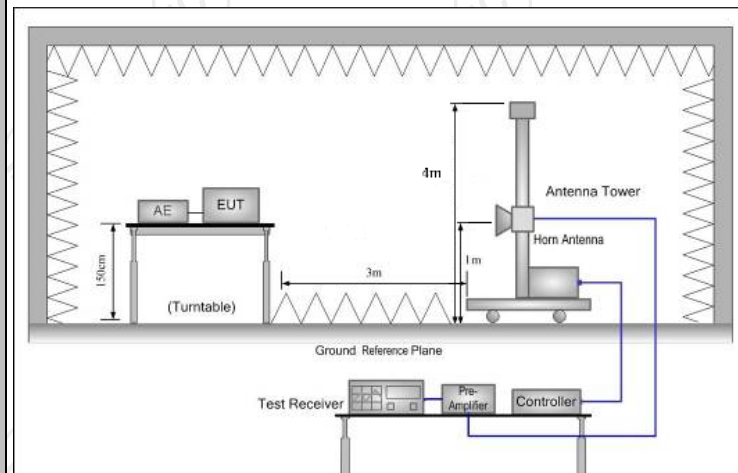
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Above 1GHz	500	3	Average
	5000	3	Peak

For radiated emissions below 30MHz

30MHz to 1GHz



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which

	<p>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=120 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement.</p> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test results:	PASS

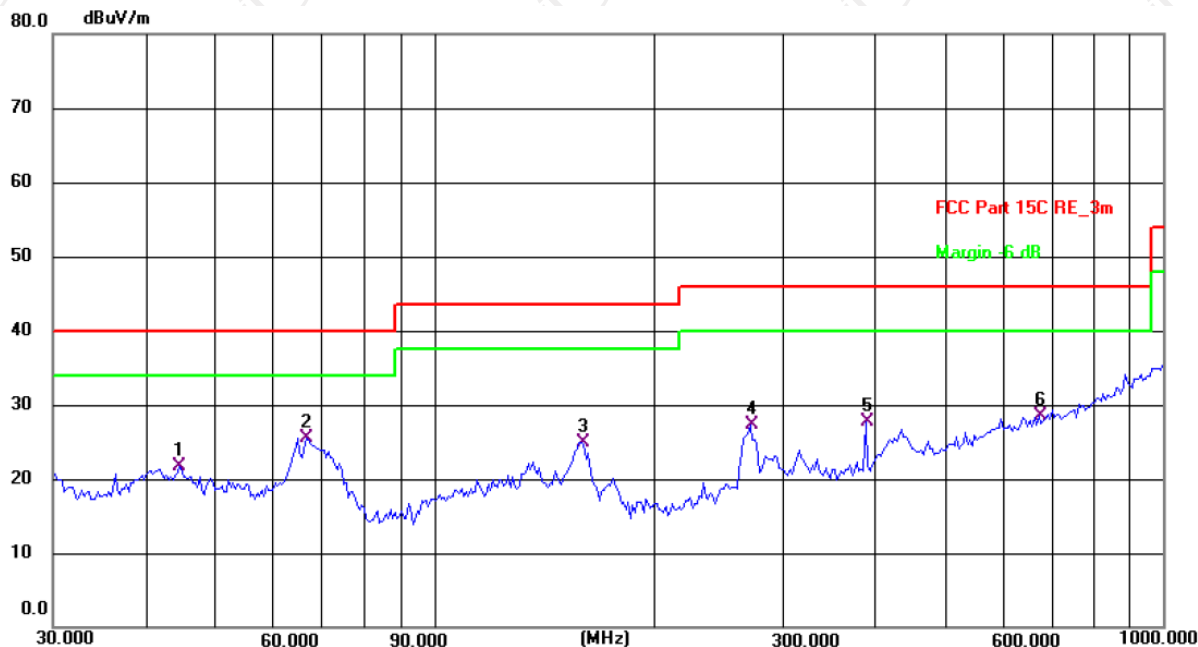
5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.7.3. Test Data

Please refer to following diagram for individual
Below 1GHz

Horizontal:



Site #1 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 24.3(C)

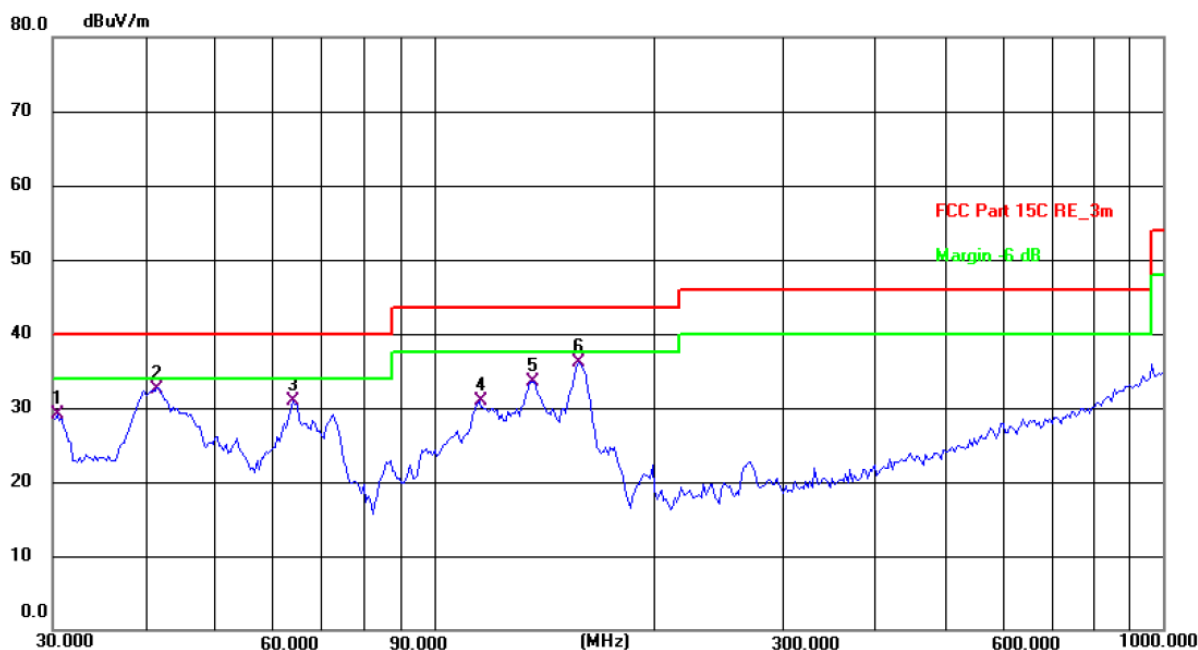
Humidity: 45 %

Limit: FCC Part 15C RE_3m

Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	44.7433	8.13	13.60	21.73	40.00	-18.27	QP	P	
2 *	66.7325	14.20	11.32	25.52	40.00	-14.48	QP	P	
3	159.2251	11.60	13.35	24.95	43.50	-18.55	QP	P	
4	271.3246	14.50	12.76	27.26	46.00	-18.74	QP	P	
5	390.7226	11.92	15.82	27.74	46.00	-18.26	QP	P	
6	675.2080	6.91	21.57	28.48	46.00	-17.52	QP	P	

Vertical:



Site #1 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 24.3(C) Humidity: 45 %

Limit: FCC Part 15C RE_3m

Power: DC 3.8 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.4237	16.57	12.47	29.04	40.00	-10.96	QP	P	
2	41.7129	18.92	13.68	32.60	40.00	-7.40	QP	P	
3	63.9827	19.22	11.67	30.89	40.00	-9.11	QP	P	
4	115.3205	19.68	11.20	30.88	43.50	-12.62	QP	P	
5	136.4598	21.13	12.46	33.59	43.50	-9.91	QP	P	
6 *	158.1123	22.80	13.31	36.11	43.50	-7.39	QP	P	

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

3. Freq. = Emission frequency in MHz

Measurement (dBuV/m) = Reading level (dBuV) + Corr. Factor (dB)

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Limit (dBuV/m) = Limit stated in standard

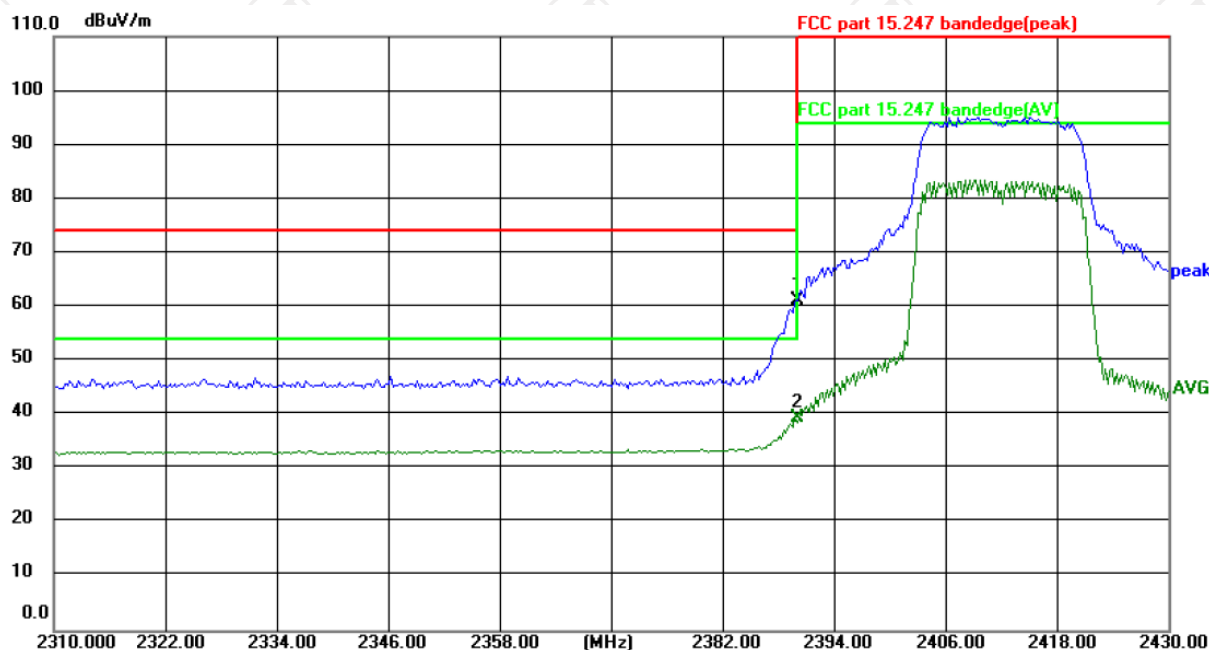
Margin (dB) = Measurement (dBuV/m) – Limits (dBuV/m)

* is meaning the worst frequency has been tested in the test frequency range.

Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:



Site

Polarization: **Horizontal**

Temperature: 24(°C)

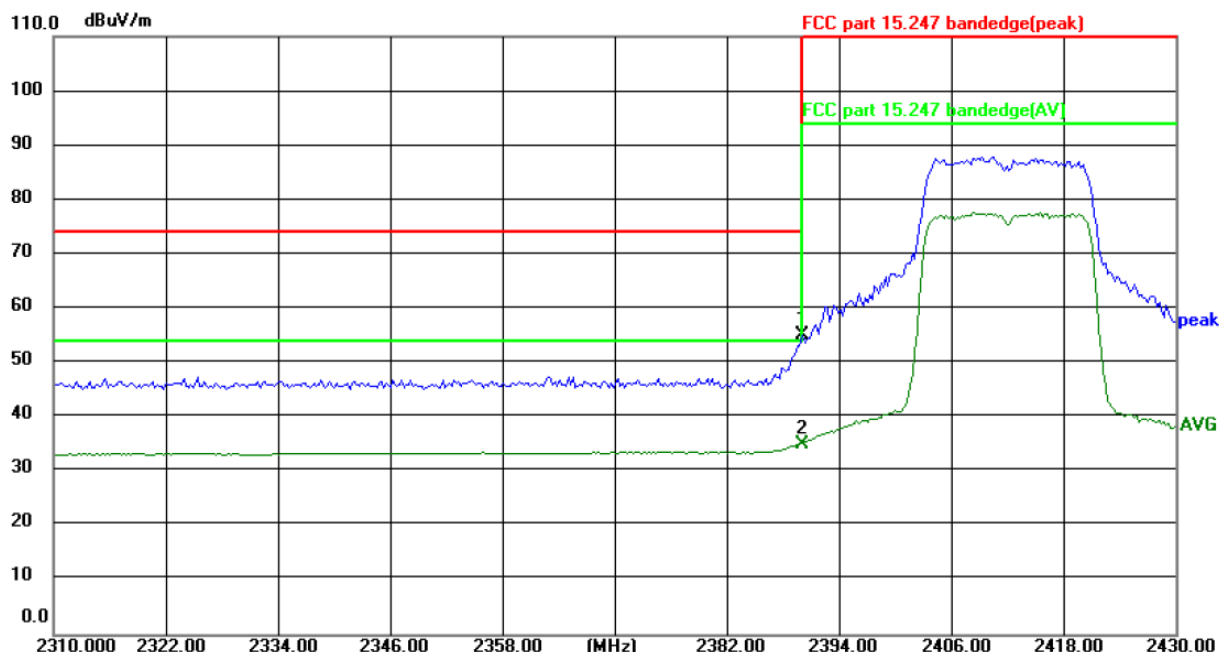
Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.8 V

Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2390.000	77.03	-15.76	61.27	74.00	-12.73	peak	P	
2	2390.000	55.10	-15.76	39.34	54.00	-14.66	AVG	P	

Vertical:



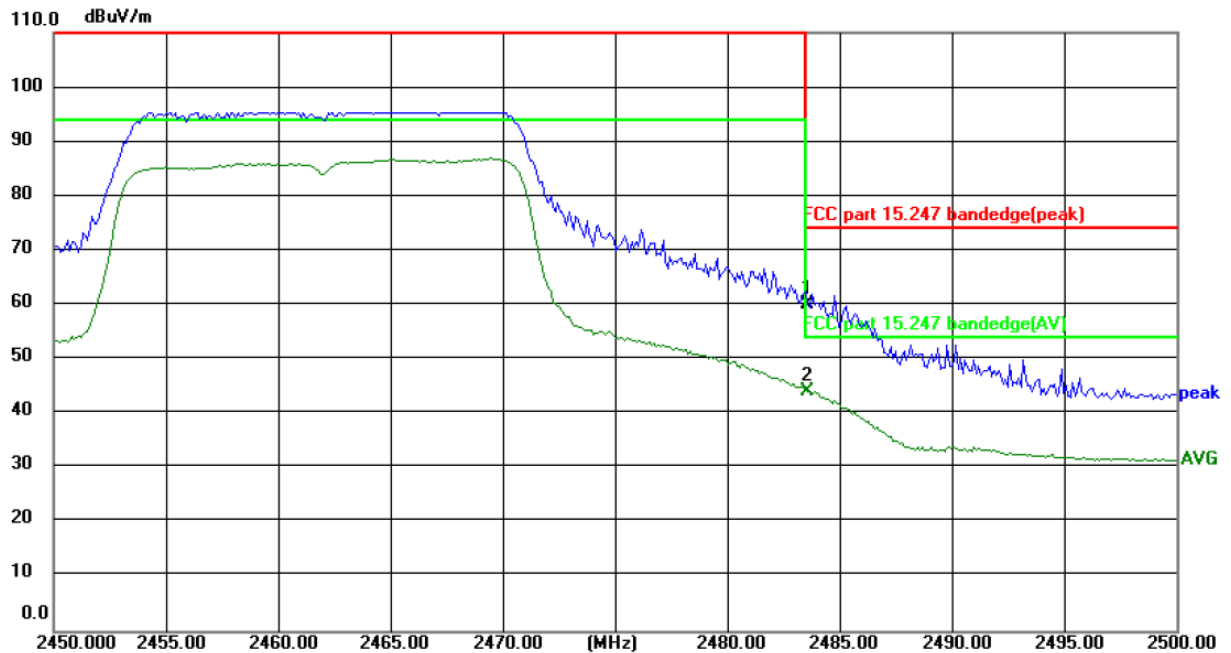
Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.247 bandedge(peak) Power: DC 3.8 V Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	70.89	-15.76	55.13	74.00	-18.87	peak	P	
2 *	2390.000	50.96	-15.76	35.20	54.00	-18.80	AVG	P	

Note: Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT20) was submitted only.

Highest channel 2462:

Horizontal:



Site

Polarization: **Horizontal**

Temperature: 24(°C)

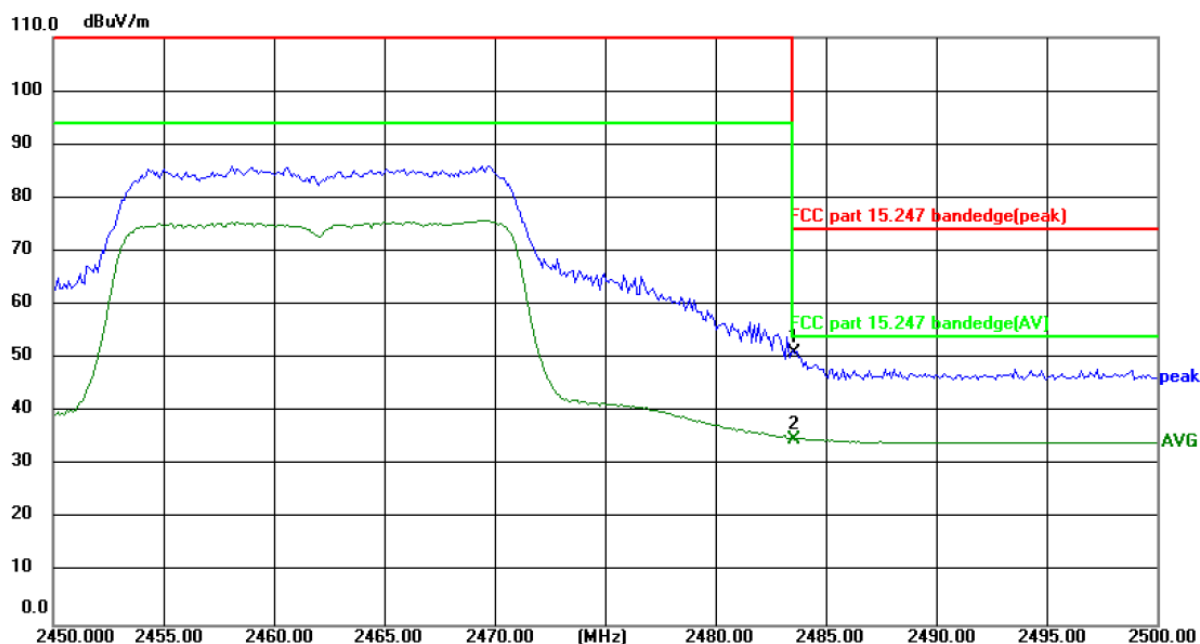
Limit: FCC part 15.247 bandedge(peak)

Power: DC 3.8 V

Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	75.57	-15.41	60.16	74.00	-13.84	peak	P	
2 *	2483.500	59.48	-15.41	44.07	54.00	-9.93	AVG	P	

Vertical:



Site: Polarization: **Vertical** Temperature: 24(°C)
 Limit: FCC part 15.247 bandedge(peak) Power: DC 3.8 V Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	66.47	-15.41	51.06	74.00	-22.94	peak	P	
2 *	2483.500	50.28	-15.41	34.87	54.00	-19.13	AVG	P	

Note:

1. Peak Final Emission Level=Peak Reading + Correction Factor;
2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT20) was submitted only.

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	47.54	---	0.75	48.29	---	74	54	-5.71
7236	H	36.63	---	9.87	46.50	---	74	54	-7.50
---	H	---	---	---	---	---	---	---	---
4824	V	46.98	---	0.75	47.73	---	74	54	-6.27
7236	V	36.25	---	9.87	46.12	---	74	54	-7.88
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	46.37	---	0.97	47.34	---	74	54	-6.66
7311	H	34.69	---	9.83	44.52	---	74	54	-9.48
---	H	---	---	---	---	---	---	---	---
4874	V	45.42	---	0.97	46.39	---	74	54	-7.61
7311	V	35.33	---	9.83	45.16	---	74	54	-8.84
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	46.57	---	1.18	47.75	---	74	54	-6.25
7386	H	37.24	---	10.07	47.31	---	74	54	-6.69
---	H	---	---	---	---	---	---	---	---
4924	V	46.26	---	1.18	47.44	---	74	54	-6.56
7386	V	36.95	---	10.07	47.02	---	74	54	-6.98
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	47.24	---	0.75	47.99	---	74	54	-6.01
7236	H	37.11	---	9.87	46.98	---	74	54	-7.02
---	H	---	---	---	---	---	---	---	---
4824	V	45.84	---	0.75	46.59	---	74	54	-7.41
7236	V	36.05	---	9.87	45.92	---	74	54	-8.08
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	45.29	---	0.97	46.26	---	74	54	-7.74
7311	H	35.95	---	9.83	45.78	---	74	54	-8.22
---	H	---	---	---	---	---	---	---	---
4874	V	44.73	---	0.97	45.70	---	74	54	-8.30
7311	V	35.25	---	9.83	45.08	---	74	54	-8.92
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	46.44	---	1.18	47.62	---	74	54	-6.38
7386	H	36.36	---	10.07	46.43	---	74	54	-7.57
---	H	---	---	---	---	---	---	---	---
4924	V	47.77	---	1.18	48.95	---	74	54	-5.05
7386	V	36.42	---	10.07	46.49	---	74	54	-7.51
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	45.17	---	0.75	45.92	---	74	54	-8.08
7236	H	34.35	---	9.87	44.22	---	74	54	-9.78
---	H	---	---	---	---	---	---	---	---
4824	V	45.92	---	0.75	46.67	---	74	54	-7.33
7236	V	35.54	---	9.87	45.41	---	74	54	-8.59
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	46.68	---	0.97	47.65	---	74	54	-6.35
7311	H	36.06	---	9.83	45.89	---	74	54	-8.11
---	H	---	---	---	---	---	---	---	---
4874	V	47.53	---	0.97	48.50	---	74	54	-5.50
7311	V	36.71	---	9.83	46.54	---	74	54	-7.46
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	44.69	---	1.18	45.87	---	74	54	-8.13
7386	H	34.95	---	10.07	45.02	---	74	54	-8.98
---	H	---	---	---	---	---	---	---	---
4924	V	46.74	---	1.18	47.92	---	74	54	-6.08
7386	V	36.86	---	10.07	46.93	---	74	54	-7.07
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11n (HT40)

Low channel: 2422 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4844	H	44.75	---	0.75	45.50	---	74	54	-8.50
7266	H	34.48	---	9.87	44.35	---	74	54	-9.65
---	H	---	---	---	---	---	---	---	---
4824	V	46.09	---	0.75	46.84	---	74	54	-7.16
7236	V	36.14	---	9.87	46.01	---	74	54	-7.99
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	47.43	---	0.97	48.40	---	74	54	-5.60
7311	H	37.11	---	9.83	46.94	---	74	54	-7.06
---	H	---	---	---	---	---	---	---	---
4874	V	48.05	---	0.97	49.02	---	74	54	-4.98
7311	V	38.97	---	9.83	48.80	---	74	54	-5.20
---	V	---	---	---	---	---	---	---	---

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4904	H	44.55	---	1.18	45.73	---	74	54	-8.27
7356	H	34.07	---	10.07	44.14	---	74	54	-9.86
---	H	---	---	---	---	---	---	---	---
4904	V	46.52	---	1.18	47.70	---	74	54	-6.30
7356	V	35.13	---	10.07	45.20	---	74	54	-8.80
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "—" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Appendix A: Test Result of Conducted Test

DTS Bandwidth

Test Result

Test Mode	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	8.640	2408.400	2417.040	0.5	PASS
	2437	8.120	2432.440	2440.560	0.5	PASS
	2462	8.160	2458.400	2466.560	0.5	PASS
11G	2412	14.760	2403.800	2418.560	0.5	PASS
	2437	16.480	2428.800	2445.280	0.5	PASS
	2462	13.240	2453.800	2467.040	0.5	PASS
11N20SISO	2412	16.680	2403.200	2419.880	0.5	PASS
	2437	16.360	2429.440	2445.800	0.5	PASS
	2462	14.280	2453.160	2467.440	0.5	PASS
11N40SISO	2422	35.840	2404.400	2440.240	0.5	PASS
	2437	27.120	2428.200	2455.320	0.5	PASS
	2452	36.480	2433.760	2470.240	0.5	PASS

Test Graphs

11B_2412



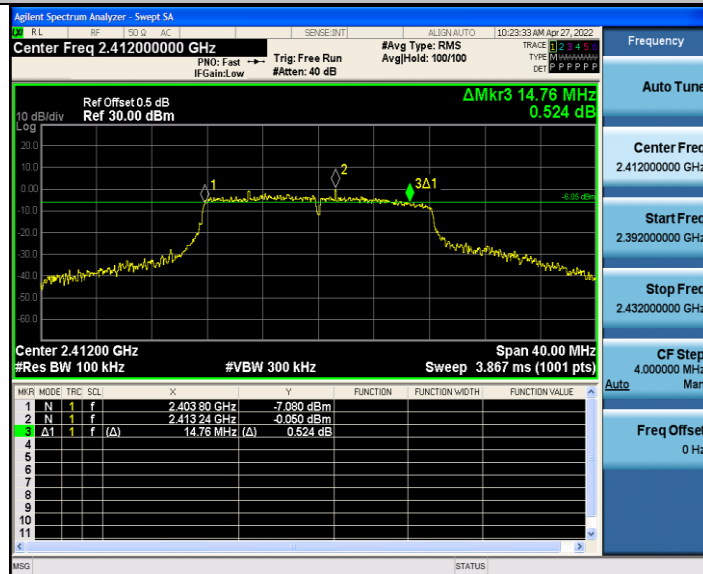
11B_2437



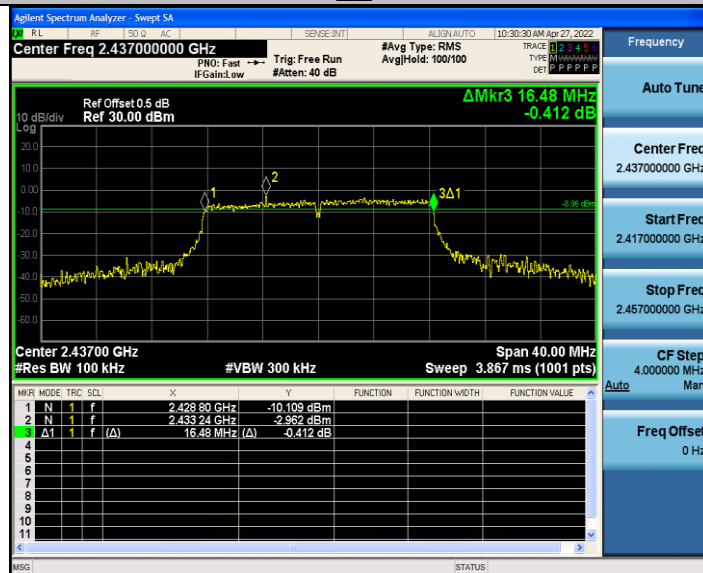
11B_2462



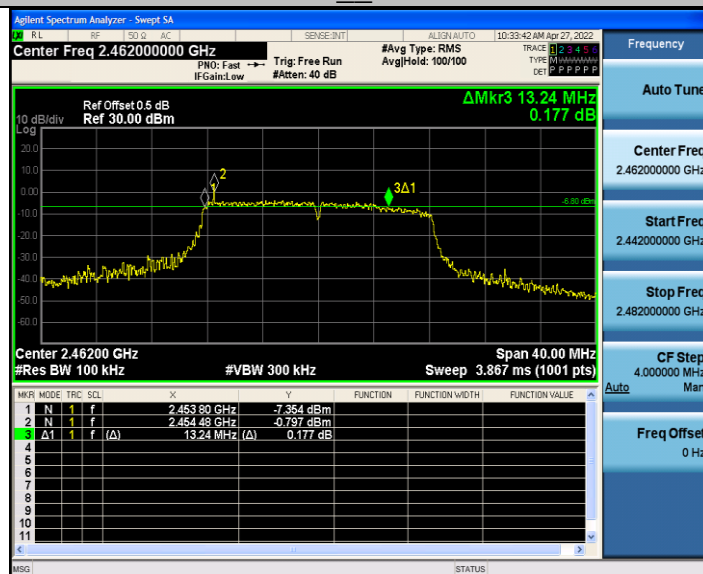
11G_2412



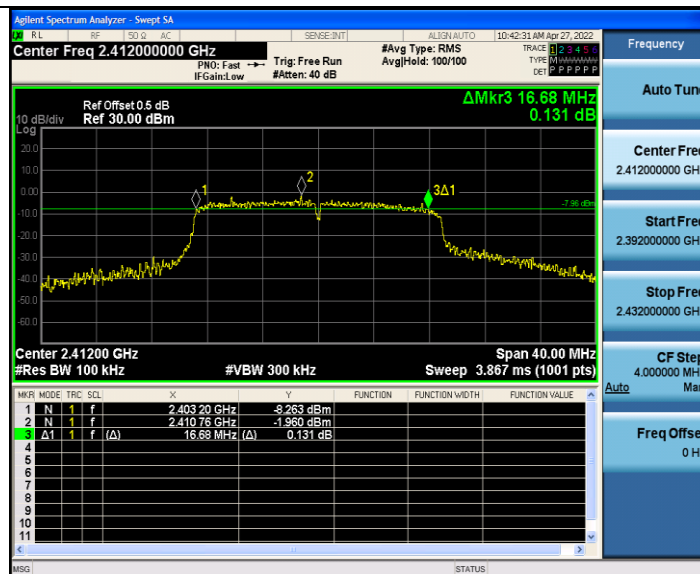
11G_2437



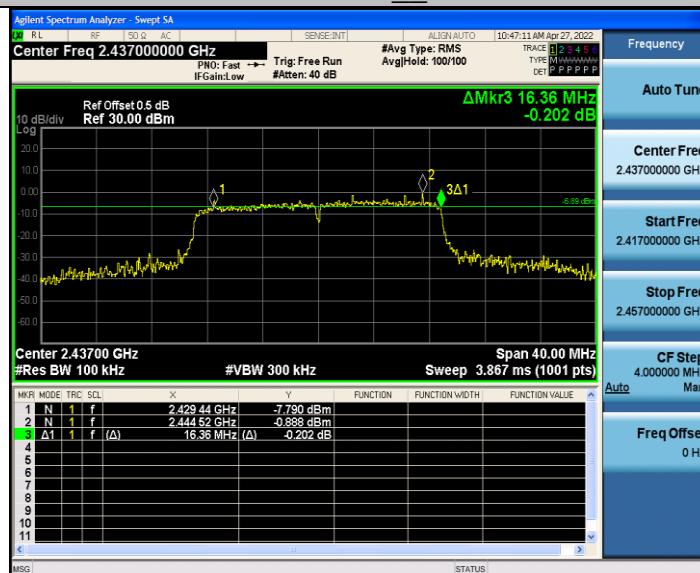
11G_2462



11N20SISO_2412



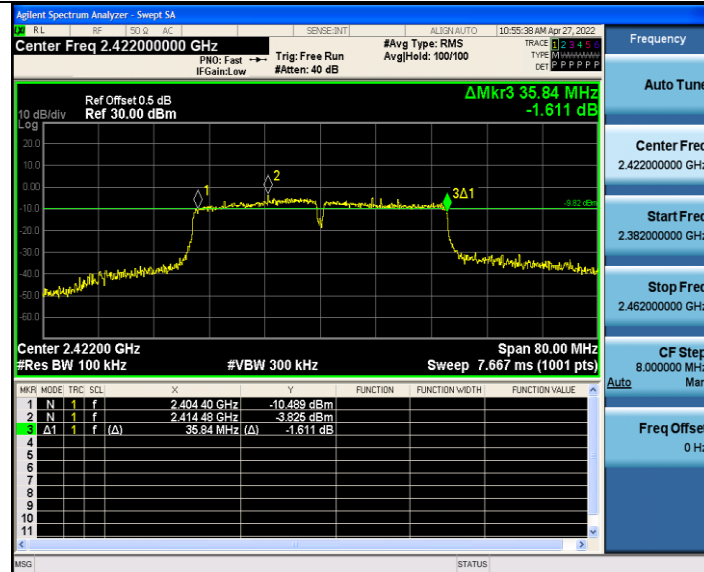
11N20SISO_2437



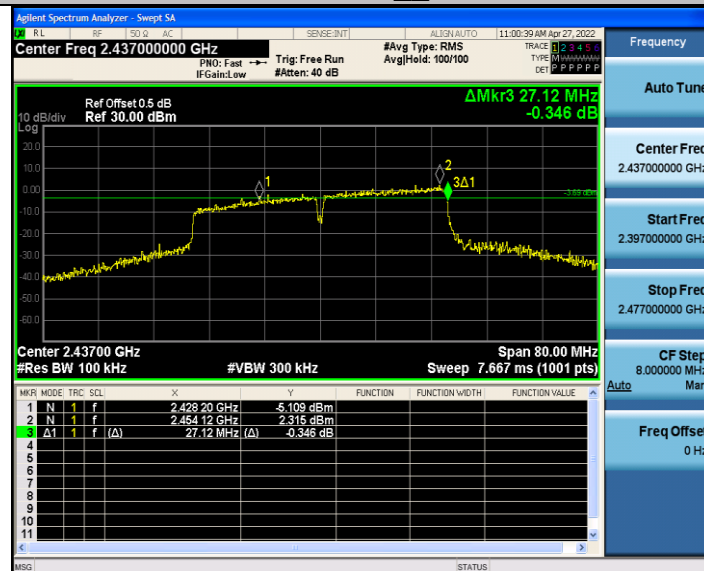
11N20SISO_2462



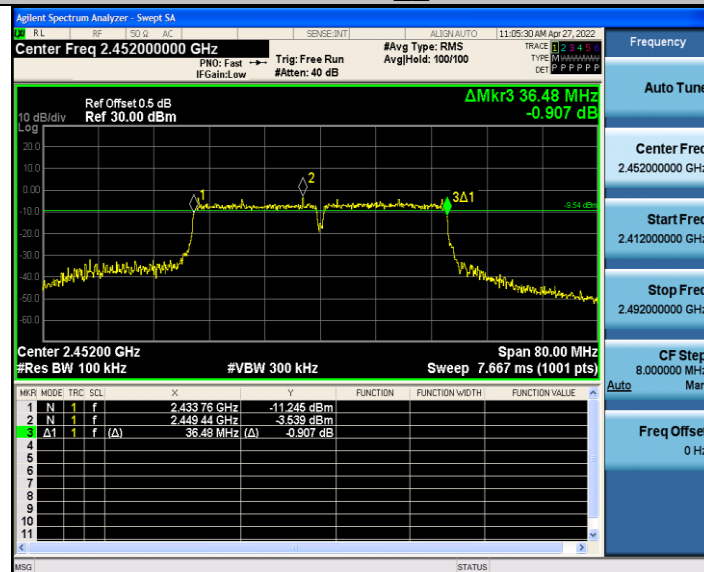
11N40SISO_2422



11N40SISO_2437



11N40SISO_2452



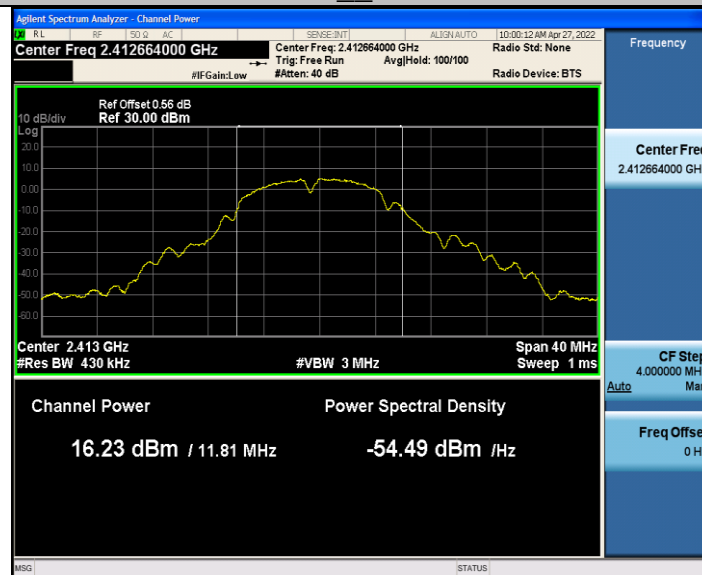
Maximum conducted output power

Test Result

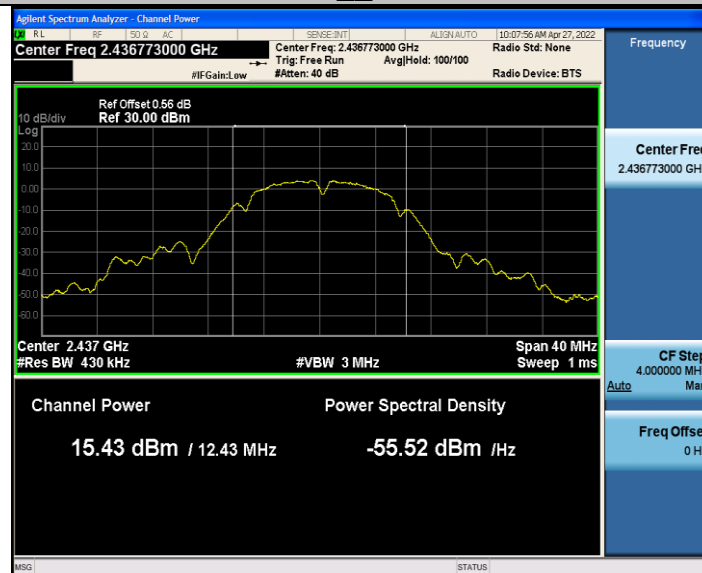
Test Mode	Channel	Result[dBm]	Duty Factor [dB]	Total Power [dBm]	Limit[dBm]	Verdict
11B	2412	16.23	0	16.23	<=30	PASS
	2437	15.43	0	15.43	<=30	PASS
	2462	16.55	0	16.55	<=30	PASS
11G	2412	10.83	0.41	11.24	<=30	PASS
	2437	9.52	0.41	9.93	<=30	PASS
	2462	12.79	0.41	13.20	<=30	PASS
11N20SISO	2412	10.07	0.44	10.51	<=30	PASS
	2437	9.93	0.44	10.37	<=30	PASS
	2462	9.95	0.44	10.39	<=30	PASS
11N40SISO	2422	11.02	0.86	11.88	<=30	PASS
	2437	11.93	0.86	12.79	<=30	PASS
	2452	11.38	0.86	12.24	<=30	PASS

Test Graphs

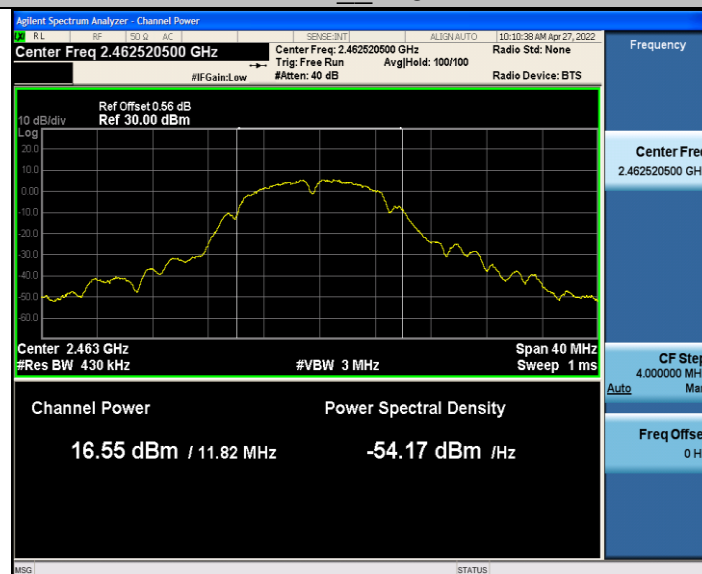
11B_2412



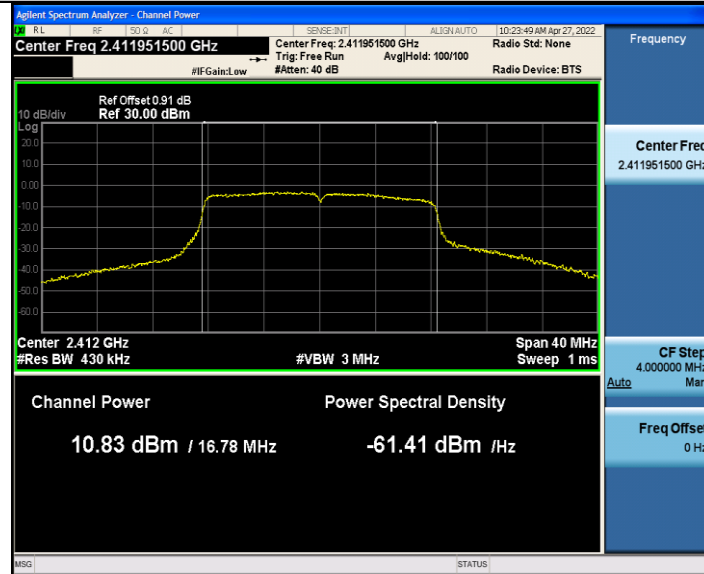
11B_2437



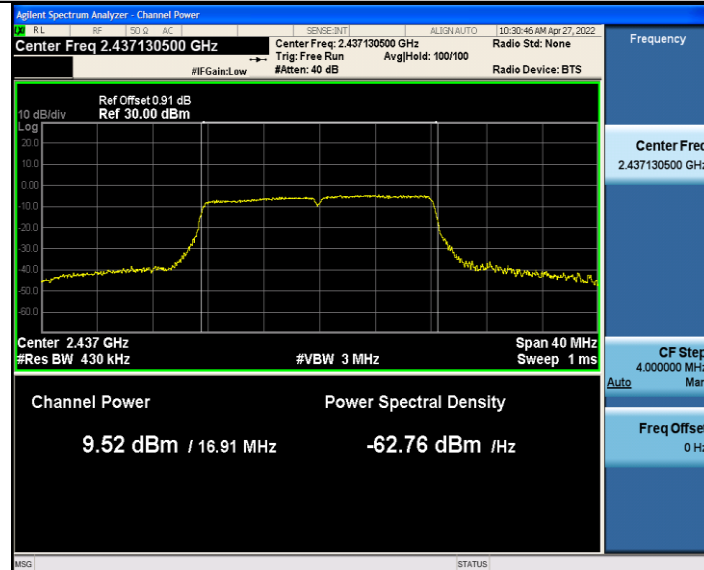
11B_2462



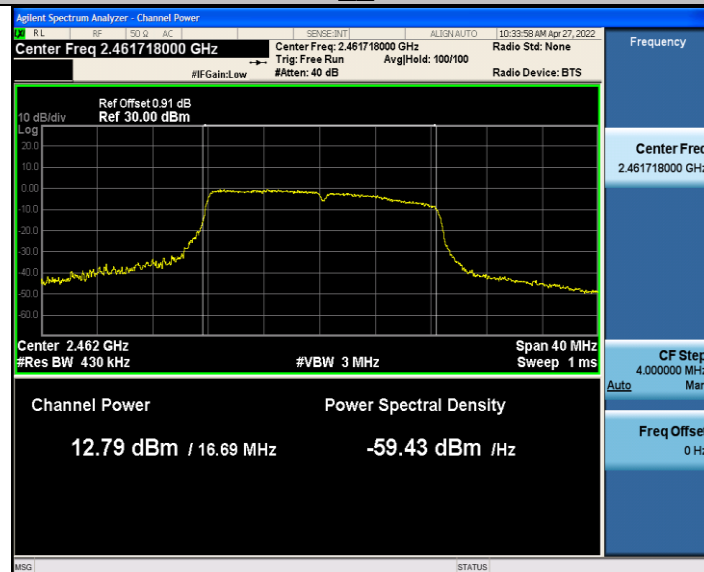
11G_2412



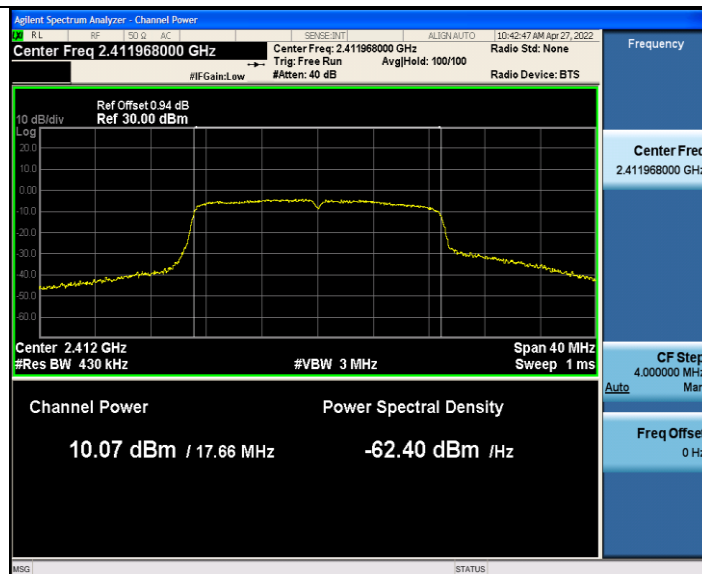
11G_2437



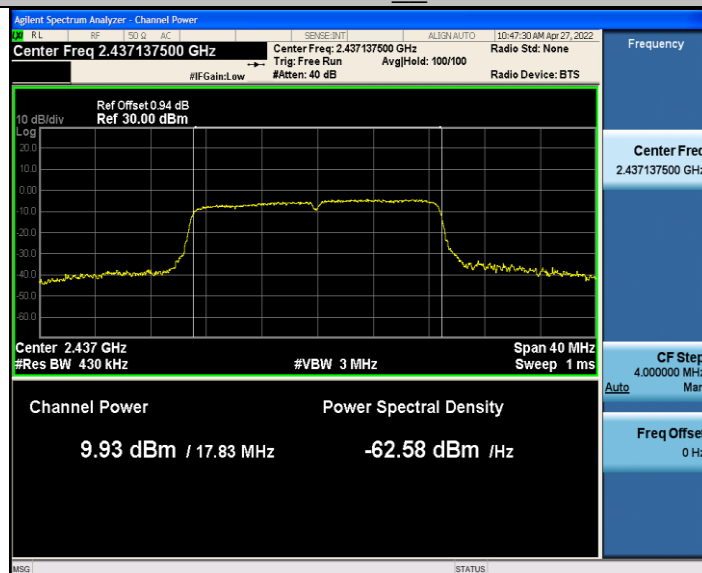
11G_2462



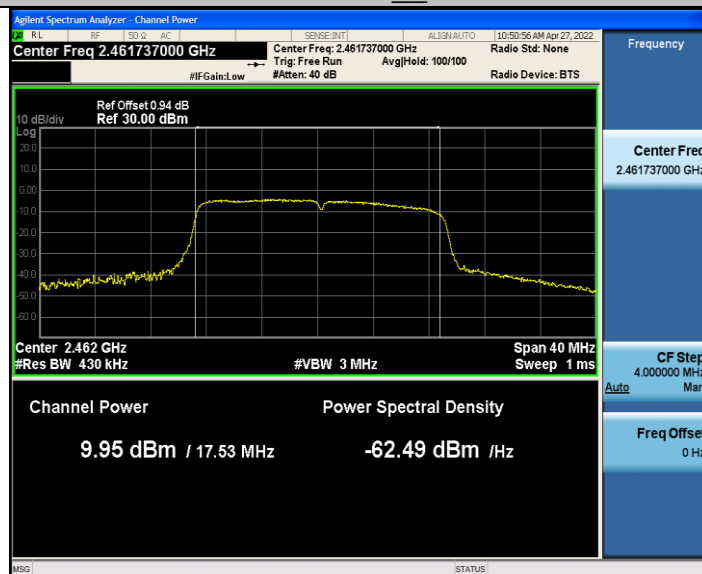
11N20SISO_2412



11N20SISO_2437



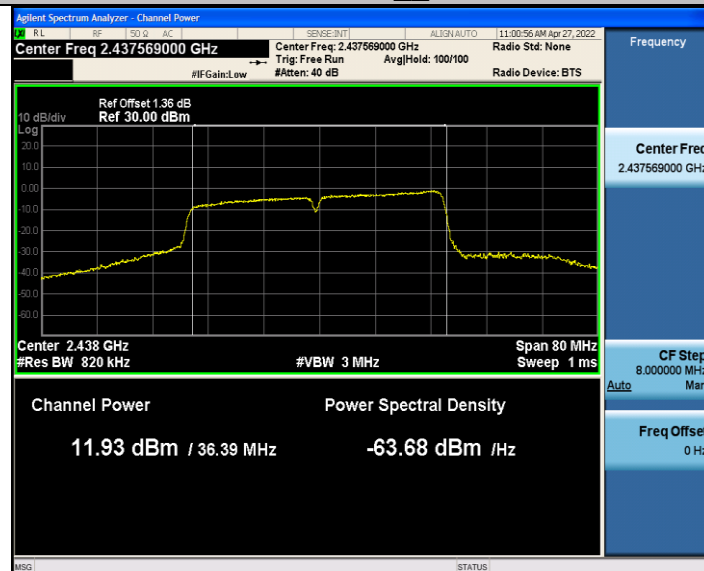
11N20SISO_2462



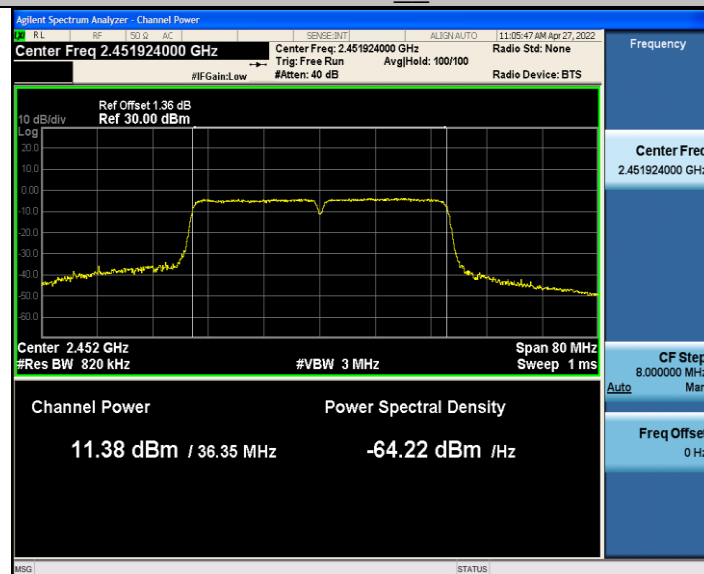
11N40SISO_2422



11N40SISO_2437



11N40SISO_2452



Maximum power spectral density

Test Result

Test Mode	Channel	Result [dBm/10kHz]	Duty Factor [dB]	Total Power [dBm]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	2412	-11.79	0	-11.79	-17.02	<=8	PASS
	2437	-11.47	0	-11.47	-16.70	<=8	PASS
	2462	-9.92	0	-9.92	-15.15	<=8	PASS
11G	2412	-17.68	0.41	-17.27	-22.50	<=8	PASS
	2437	-18.91	0.41	-18.5	-23.73	<=8	PASS
	2462	-17.65	0.41	-17.24	-22.47	<=8	PASS
11N20SISO	2412	-18.38	0.44	-17.94	-23.17	<=8	PASS
	2437	-18.20	0.44	-17.76	-22.99	<=8	PASS
	2462	-18.56	0.44	-18.12	-23.35	<=8	PASS
11N40SISO	2422	-19.72	0.86	-18.86	-24.09	<=8	PASS
	2437	-13.25	0.86	-12.39	-17.62	<=8	PASS
	2452	-20.61	0.86	-19.75	-24.98	<=8	PASS

Note: Result[dBm/3kHz] = Result[dBm/10kHz] +10log(3kHz/10kHz)

Test Graphs

11B_2412



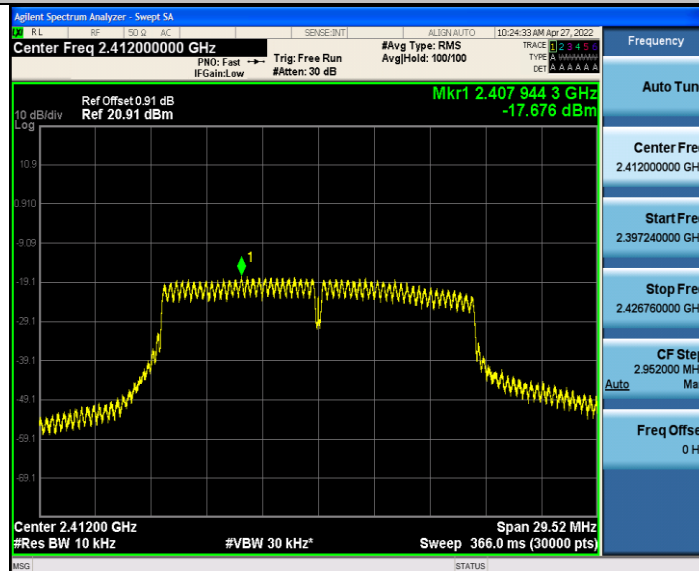
11B_2437



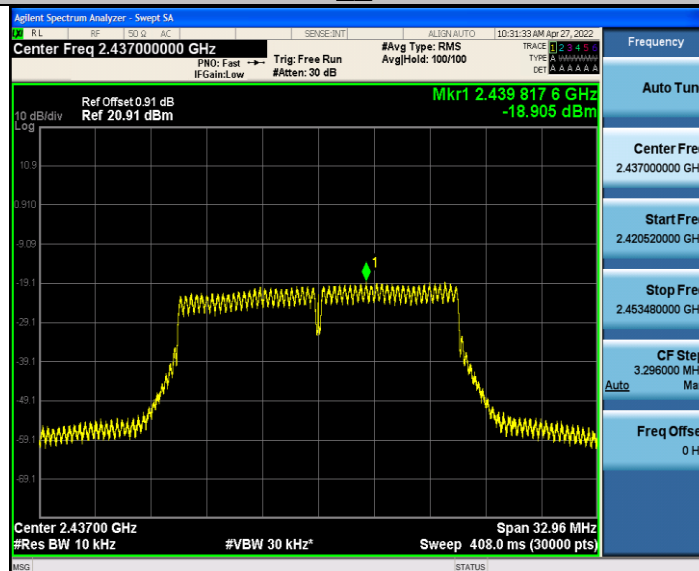
11B_2462



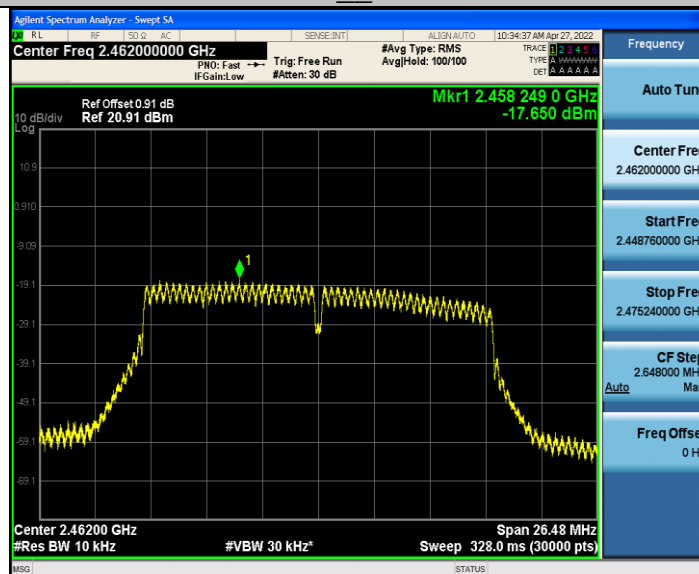
11G_2412



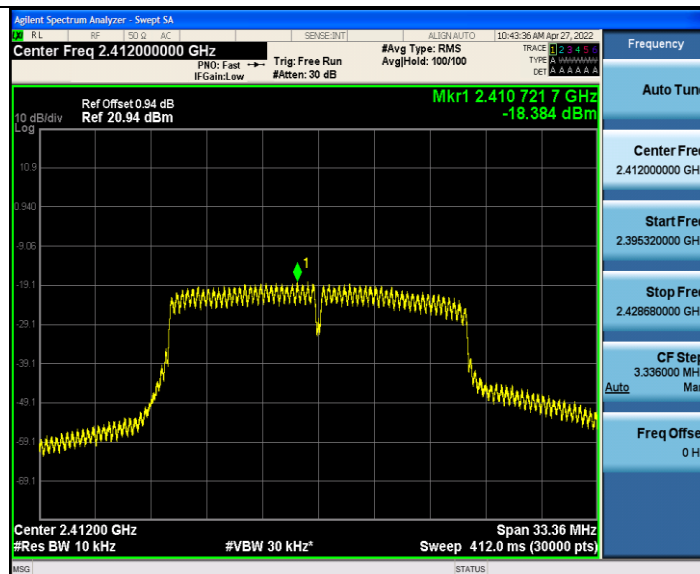
11G_2437



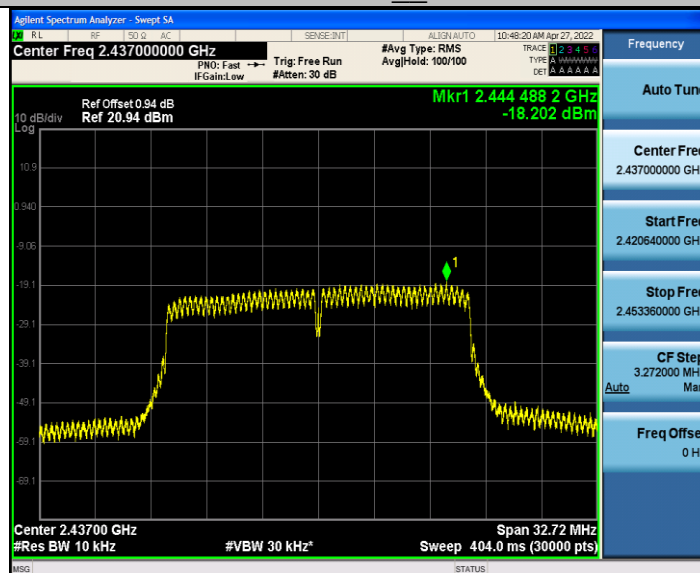
11G_2462



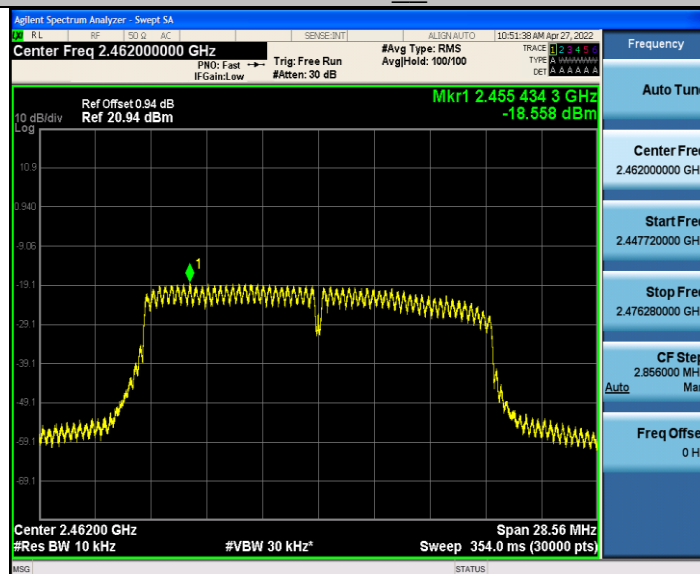
11N20SISO_2412



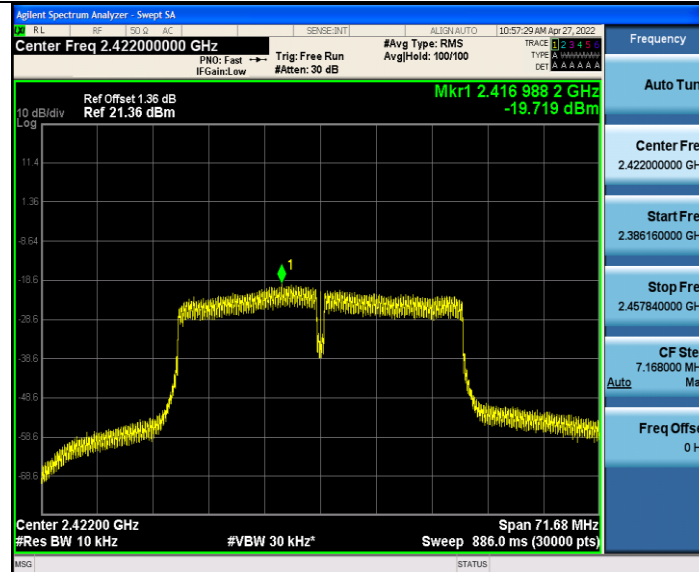
11N20SISO_2437



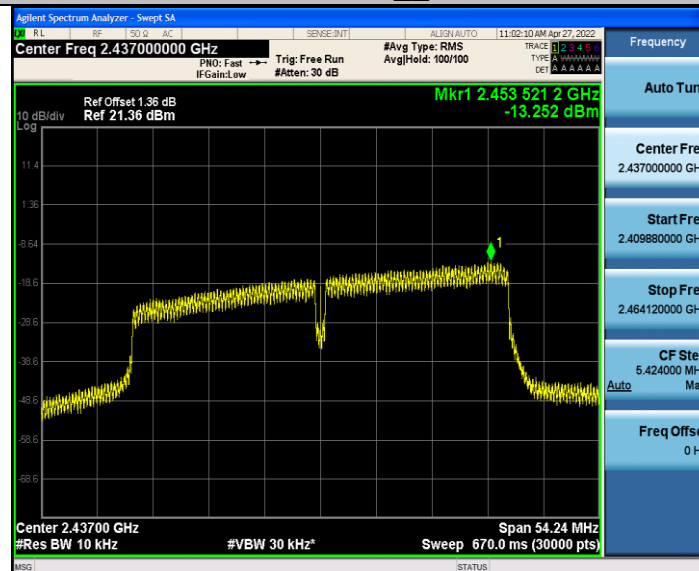
11N20SISO_2462



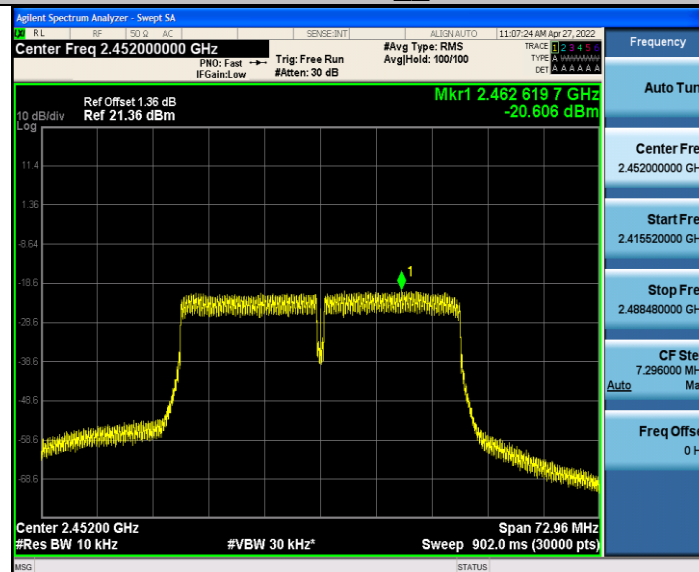
11N40SISO_2422



11N40SISO_2437



11N40SISO_2452



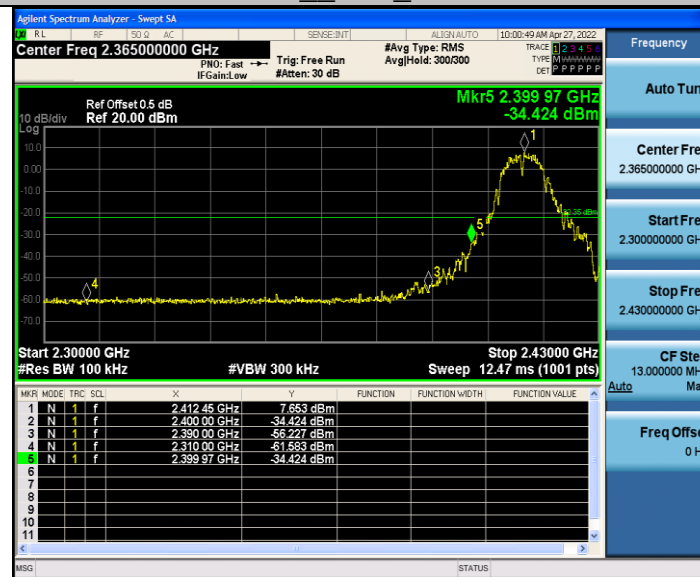
Band edge measurements

Test Result

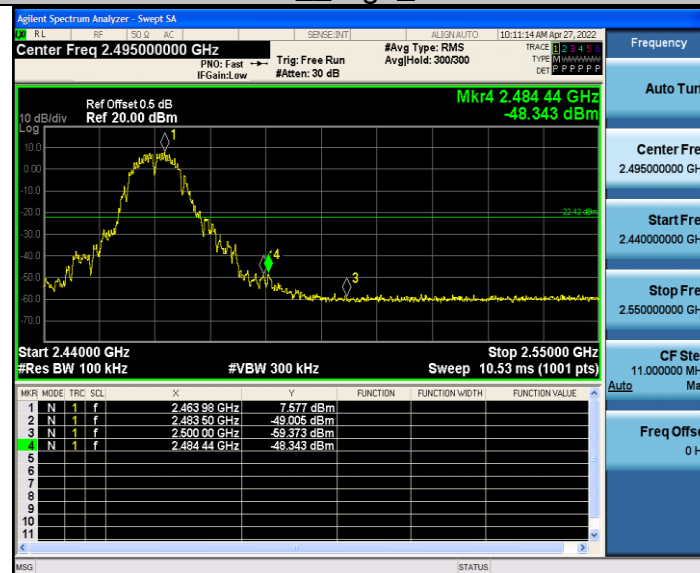
Test Mode	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	7.65	-34.42	<=-22.35	PASS
	High	2462	7.58	-48.34	<=-22.42	PASS
11G	Low	2412	0.09	-32.01	<=-29.91	PASS
	High	2462	-1.28	-49.81	<=-31.28	PASS
11N20SISO	Low	2412	-1.10	-31.71	<=-31.10	PASS
	High	2462	-1.84	-47.50	<=-31.84	PASS
11N40SISO	Low	2422	-2.74	-36.28	<=-32.74	PASS
	High	2452	-3.03	-44.54	<=-33.03	PASS

Test Graphs

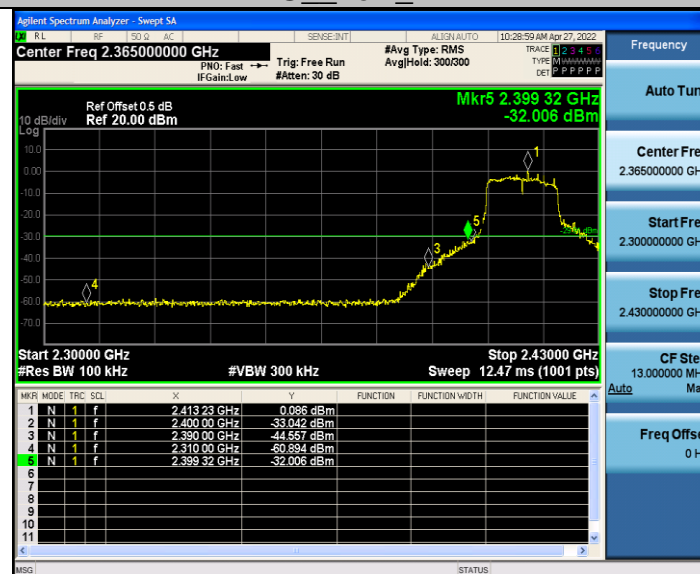
11B_Low_2412



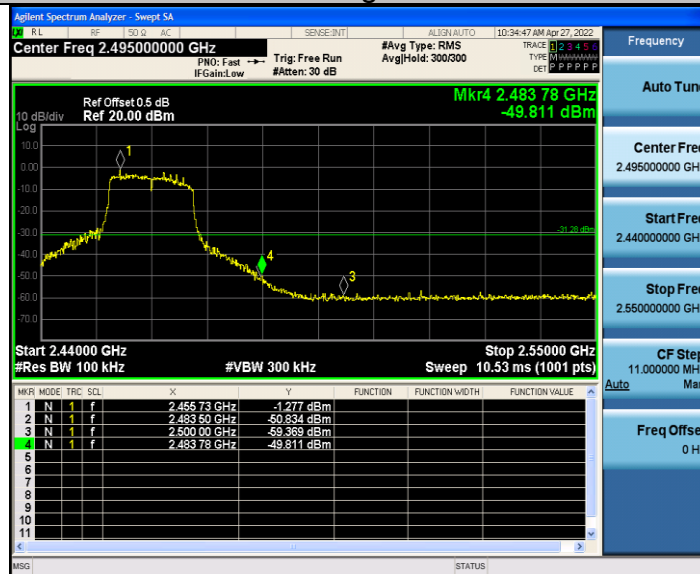
11B_High_2462



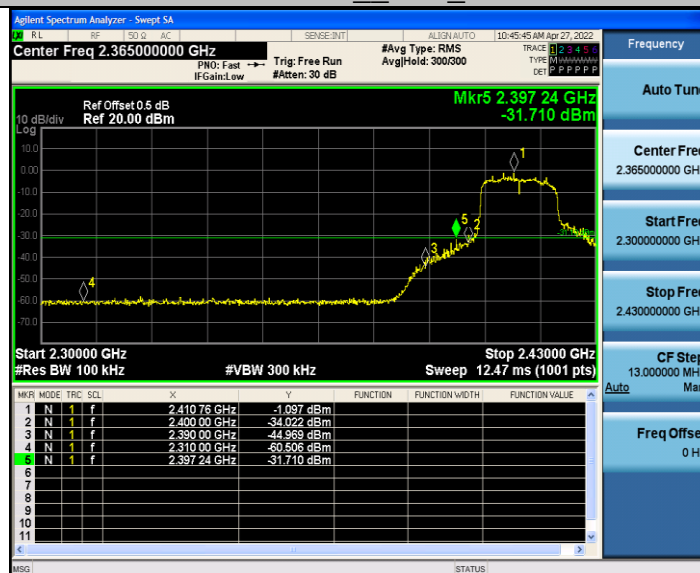
11G_Low_2412



11G_High_2462



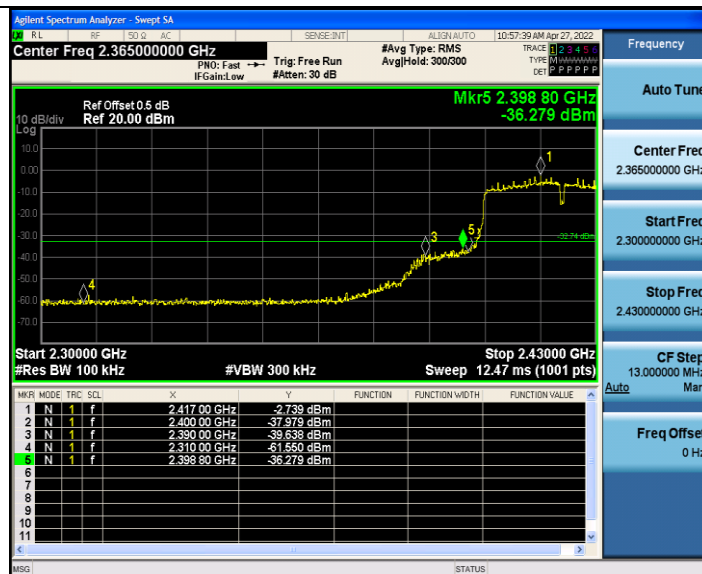
11N20SISO_Low_2412



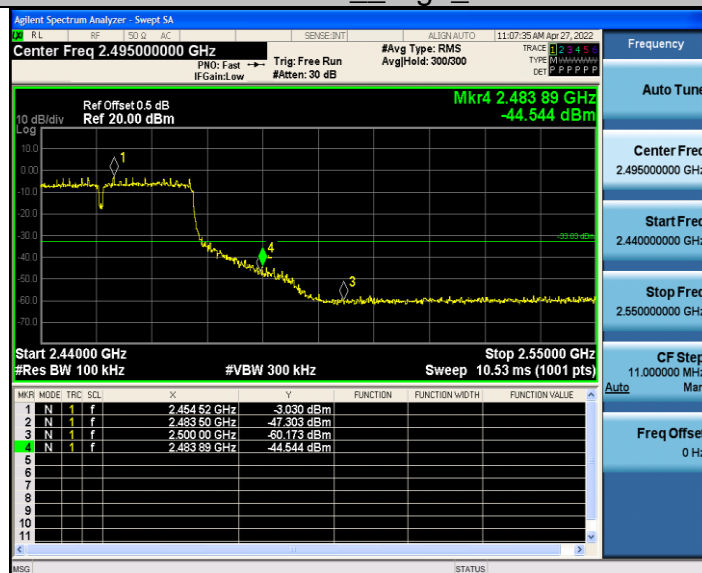
11N20SISO_High_2462



11N40SISO_Low_2422



11N40SISO High 2452



Conducted Spurious Emission

Test Result

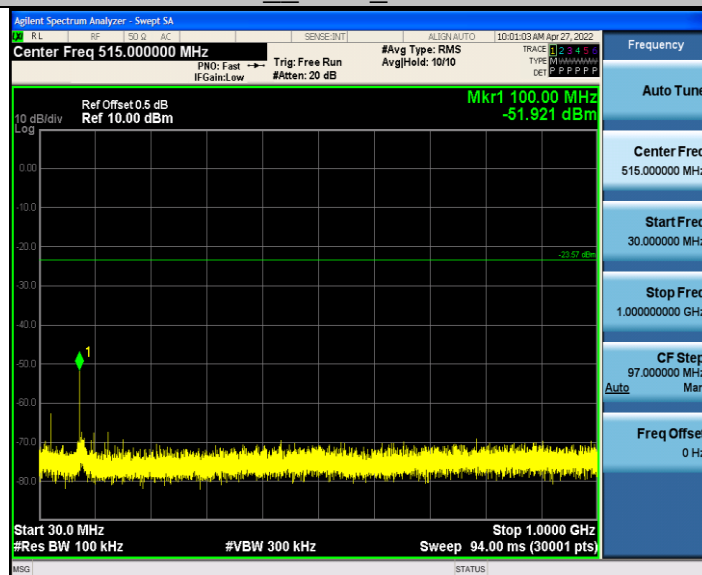
Test Mode	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	6.43	6.43	---	PASS
		30~1000	30~1000	-51.921	<=-23.568	PASS
		1000~26500	1000~26500	-35.603	<=-23.568	PASS
	2437	Reference	9.61	9.61	---	PASS
		30~1000	30~1000	-57.545	<=-20.395	PASS
		1000~26500	1000~26500	-36.442	<=-20.395	PASS
	2462	Reference	7.53	7.53	---	PASS
		30~1000	30~1000	-57.523	<=-22.47	PASS
		1000~26500	1000~26500	-36.347	<=-22.47	PASS
11G	2412	Reference	-1.76	-1.76	---	PASS
		30~1000	30~1000	-59.054	<=-31.758	PASS
		1000~26500	1000~26500	-43.542	<=-31.758	PASS
	2437	Reference	-1.29	-1.29	---	PASS
		30~1000	30~1000	-63.66	<=-31.288	PASS
		1000~26500	1000~26500	-42.804	<=-31.288	PASS
	2462	Reference	-1.56	-1.56	---	PASS
		30~1000	30~1000	-68.795	<=-31.557	PASS
		1000~26500	1000~26500	-43.325	<=-31.557	PASS
11N20SISO	2412	Reference	-2.08	-2.08	---	PASS
		30~1000	30~1000	-68.672	<=-32.075	PASS
		1000~26500	1000~26500	-43.241	<=-32.075	PASS
	2437	Reference	-2.10	-2.10	---	PASS
		30~1000	30~1000	-64.48	<=-32.103	PASS
		1000~26500	1000~26500	-42.353	<=-32.103	PASS
	2462	Reference	-1.21	-1.21	---	PASS
		30~1000	30~1000	-56.771	<=-31.212	PASS
		1000~26500	1000~26500	-43.176	<=-31.212	PASS
11N40SISO	2422	Reference	-2.86	-2.86	---	PASS
		30~1000	30~1000	-58.344	<=-32.859	PASS
		1000~26500	1000~26500	-43.237	<=-32.859	PASS
	2437	Reference	1.93	1.93	---	PASS
		30~1000	30~1000	-55.049	<=-28.072	PASS
		1000~26500	1000~26500	-42.956	<=-28.072	PASS
	2452	Reference	-2.88	-2.88	---	PASS
		30~1000	30~1000	-55.098	<=-32.88	PASS
		1000~26500	1000~26500	-42.653	<=-32.88	PASS

Test Graphs

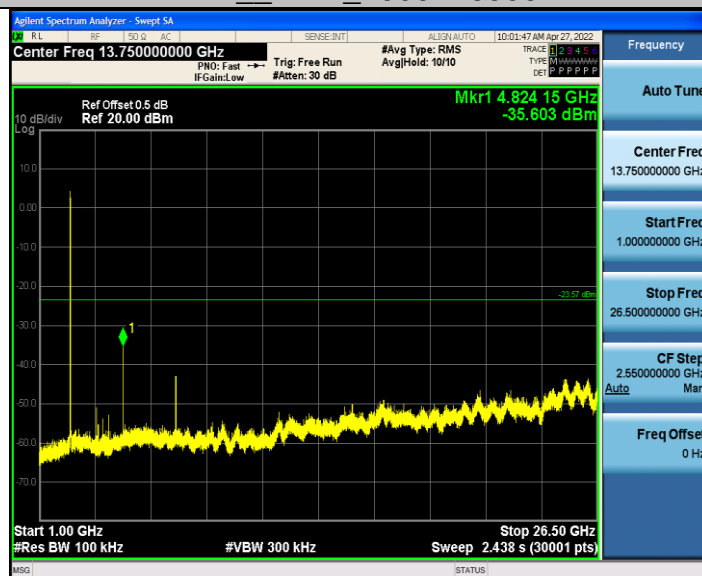
11B_2412_0~Reference



11B_2412_30~1000



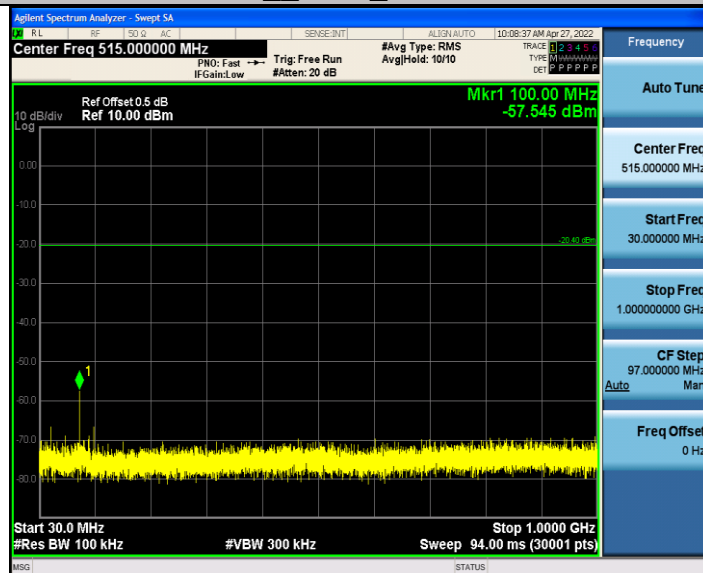
11B_2412_1000~26500



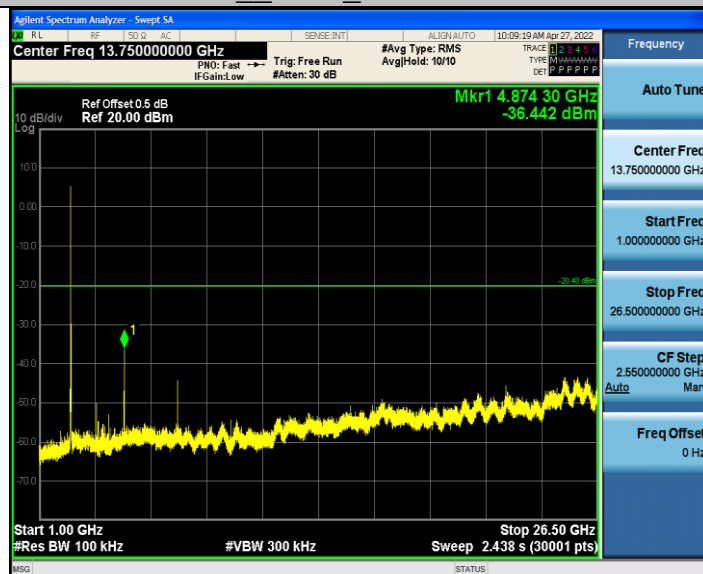
11B_2437_0~Reference



11B_2437_30~1000



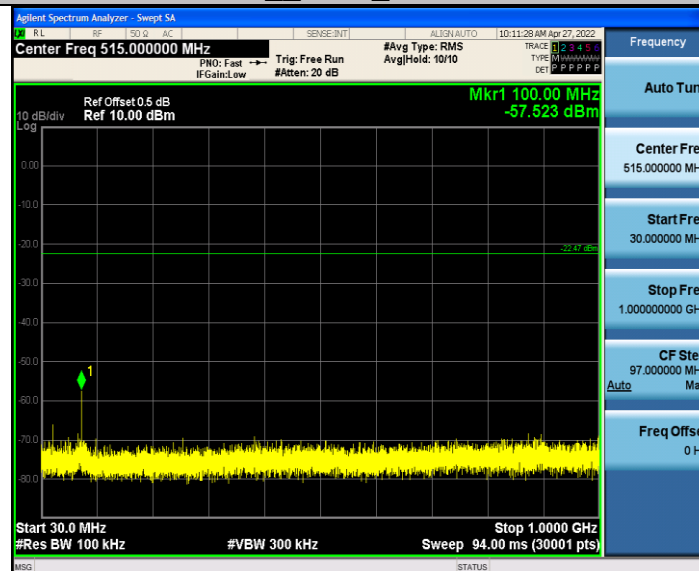
11B_2437_1000~26500



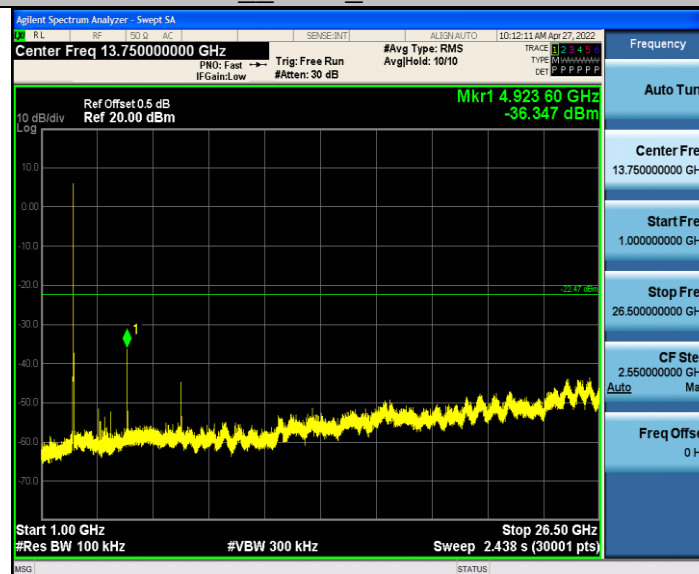
11B_2462_0~Reference



11B_2462_30~1000



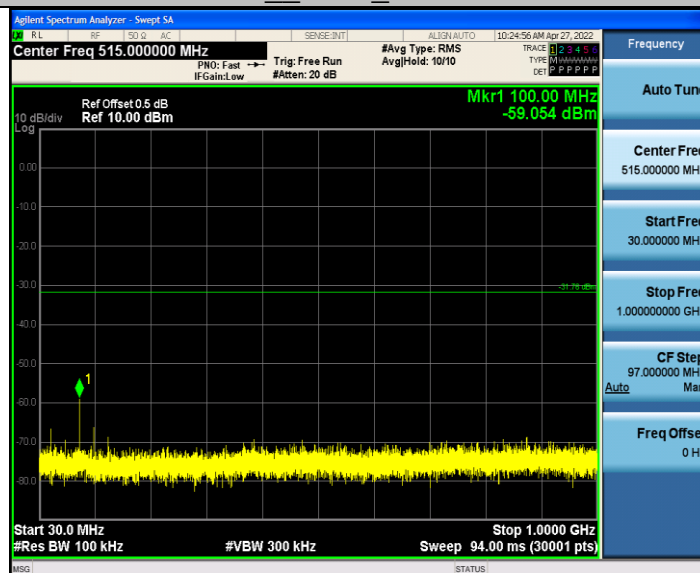
11B_2462_1000~26500



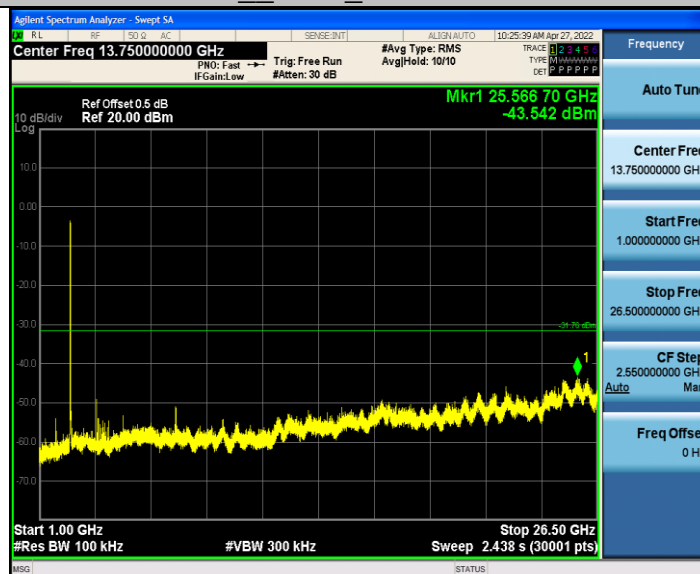
11G_2412_0~Reference



11G_2412_30~1000



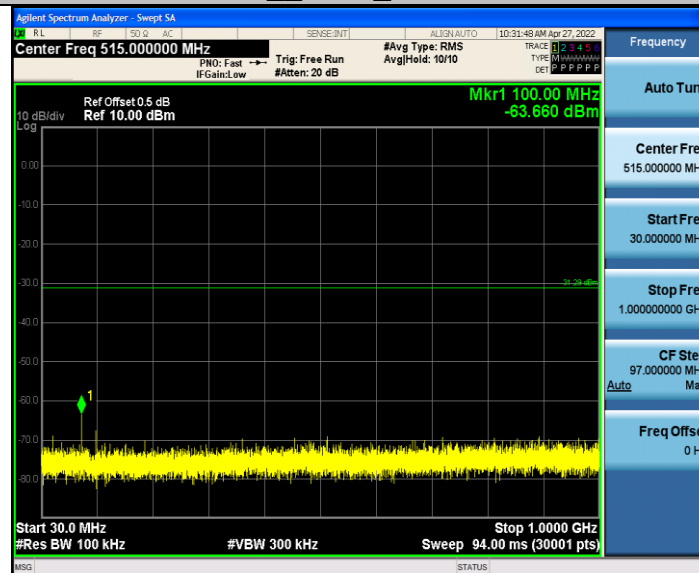
11G_2412_1000~26500



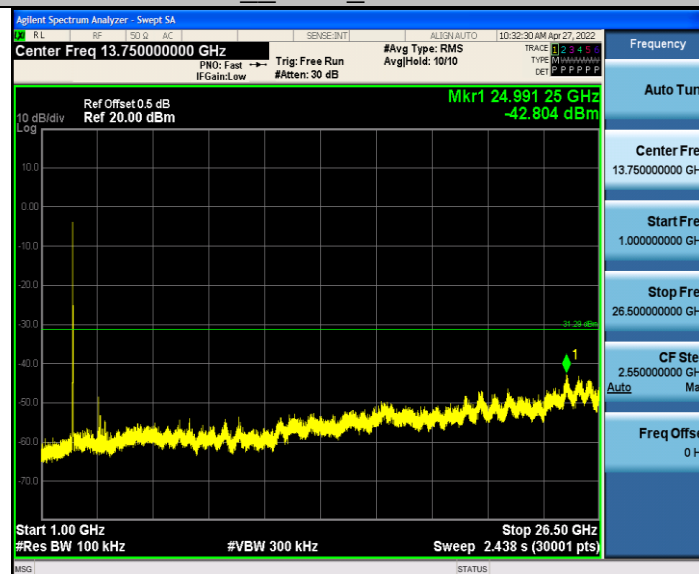
11G_2437_0~Reference



11G_2437_30~1000



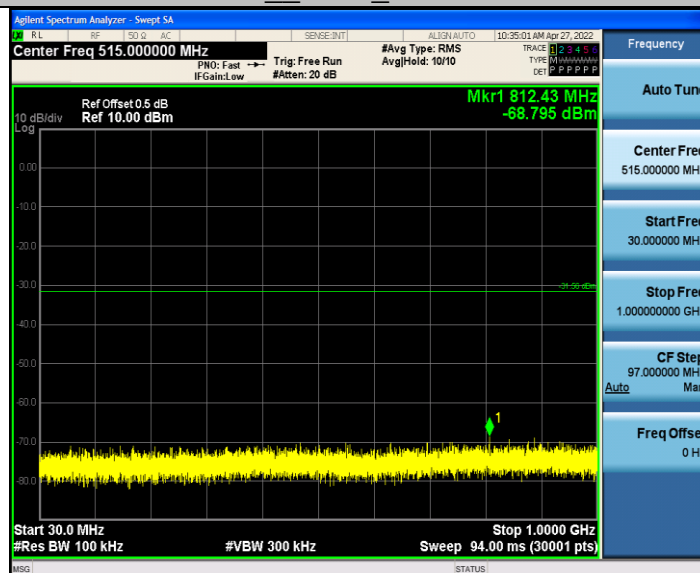
11G_2437_1000~26500



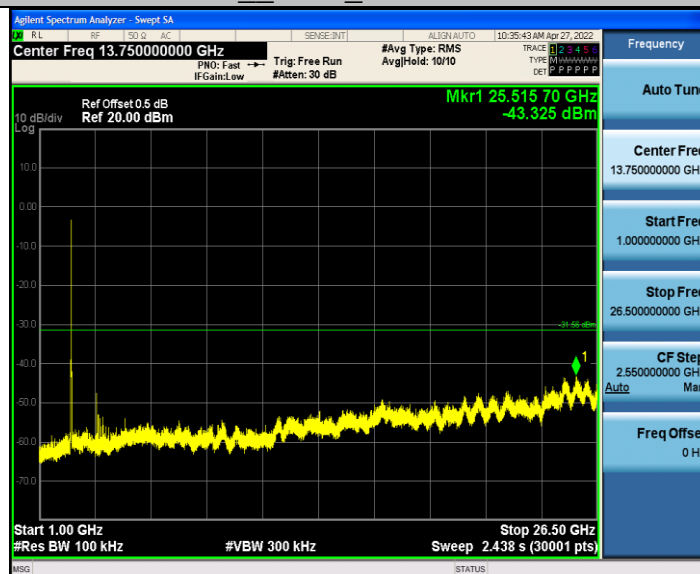
11G_2462_0~Reference



11G_2462_30~1000



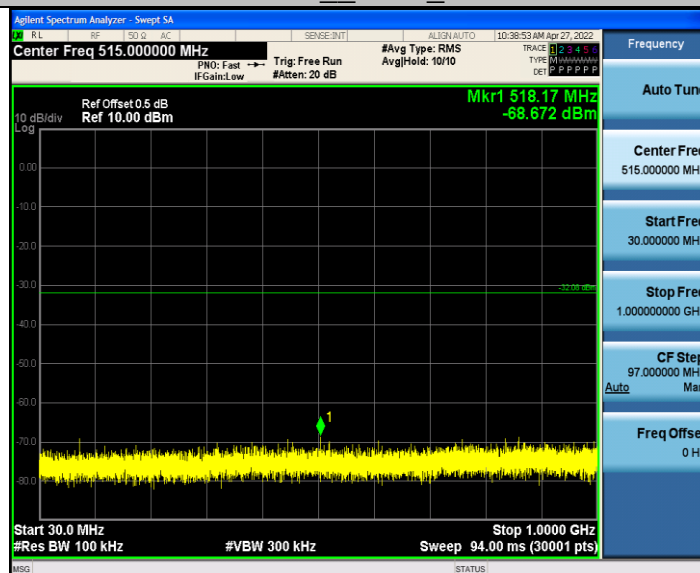
11G_2462_1000~26500



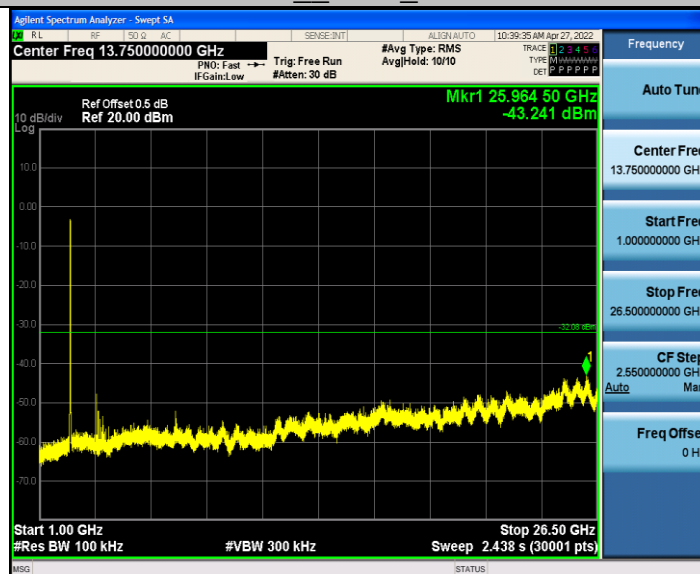
11N20SISO_2412_0~Reference



11N20SISO_2412_30~1000



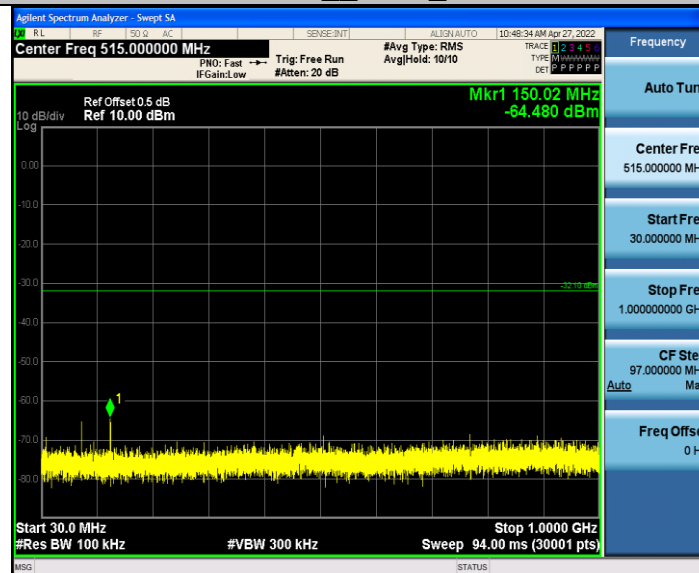
11N20SISO_2412_1000~26500



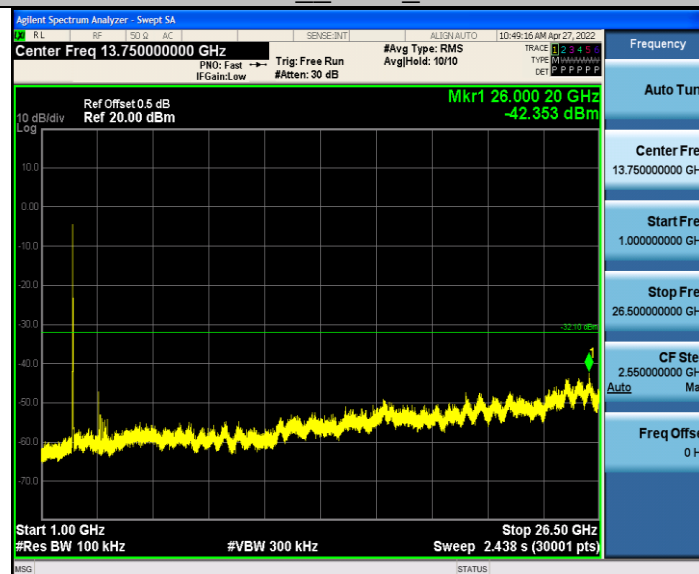
11N20SISO_2437_0~Reference



11N20SISO_2437_30~1000



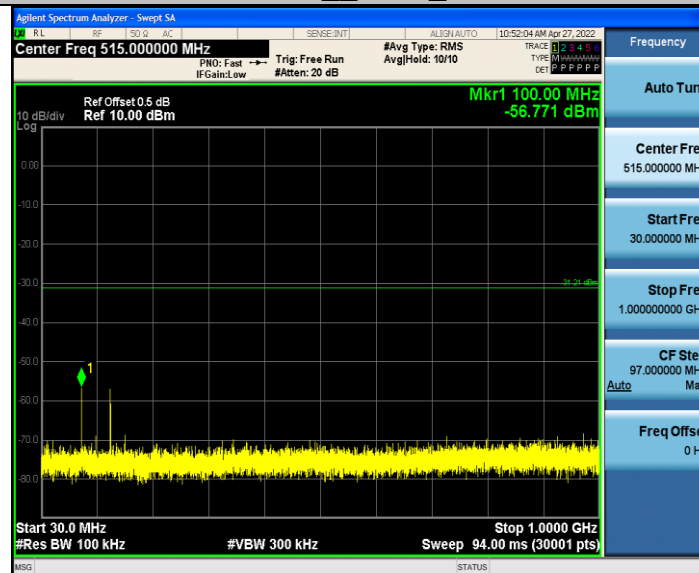
11N20SISO_2437_1000~26500



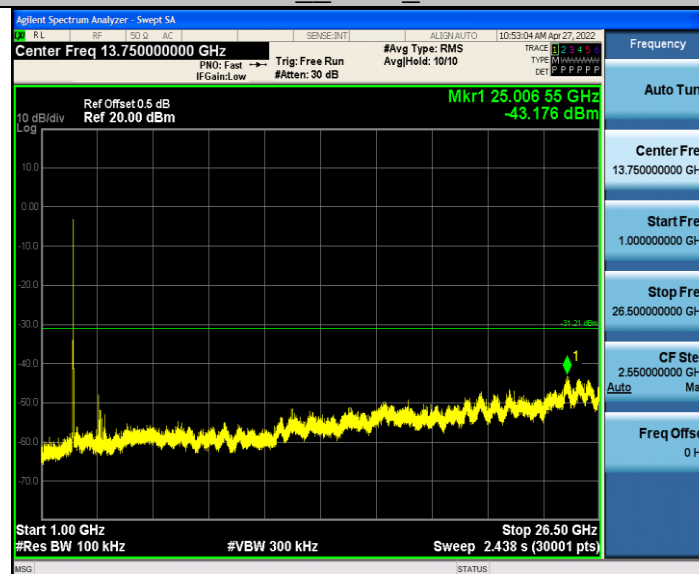
11N20SISO_2462_0~Reference



11N20SISO_2462_30~1000



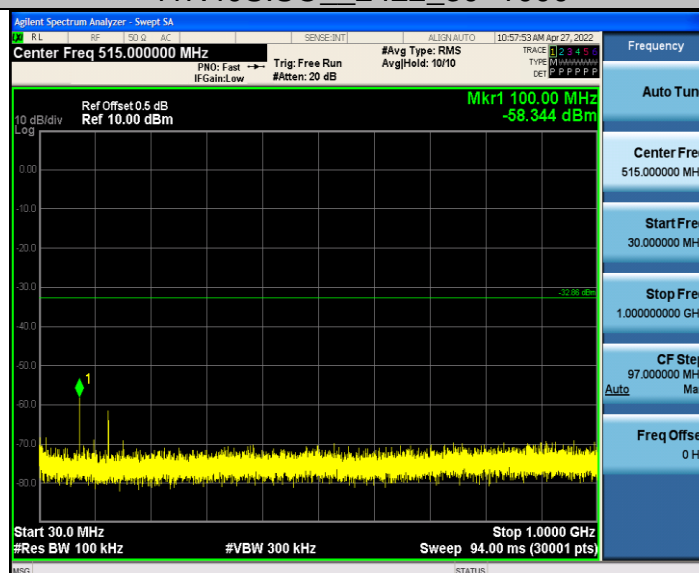
11N20SISO_2462_1000~26500



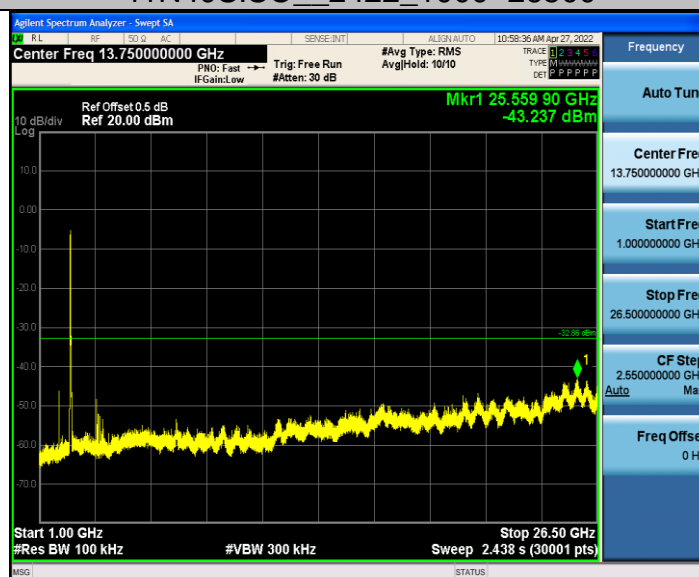
11N40SISO_2422_0~Reference



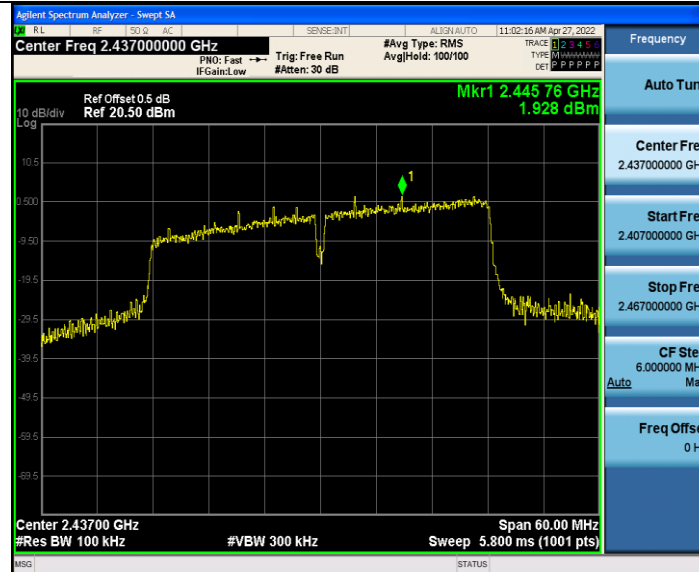
11N40SISO_2422_30~1000



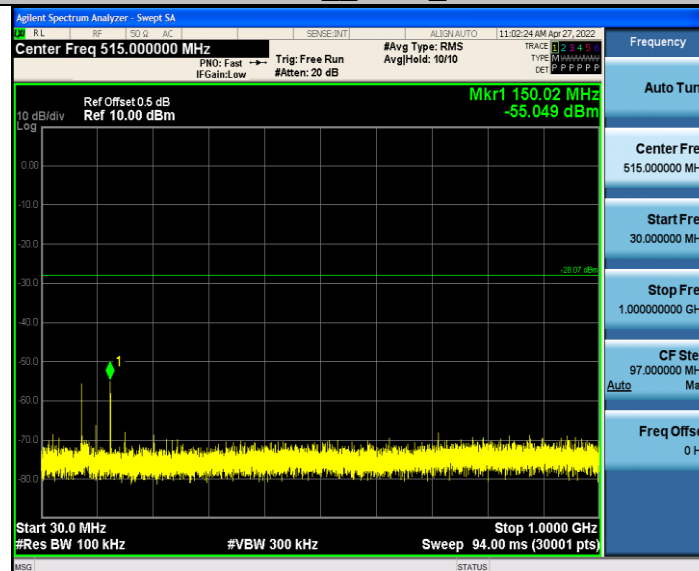
11N40SISO_2422_1000~26500



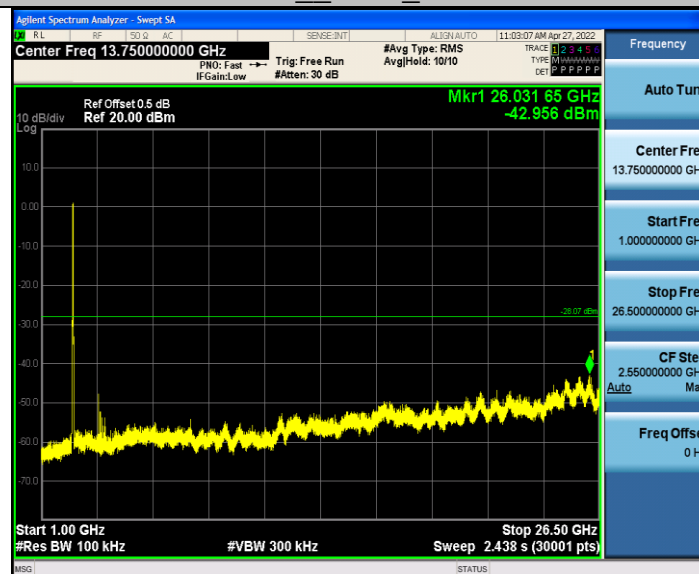
11N40SISO_2437_0~Reference



11N40SISO_2437_30~1000



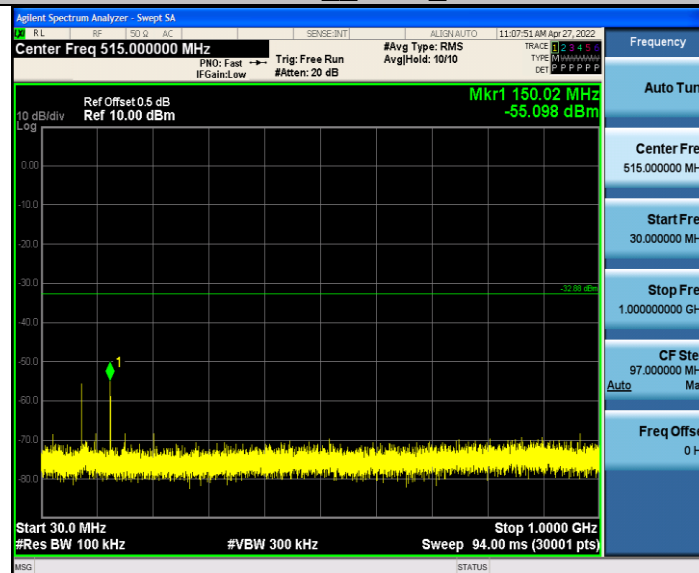
11N40SISO_2437_1000~26500



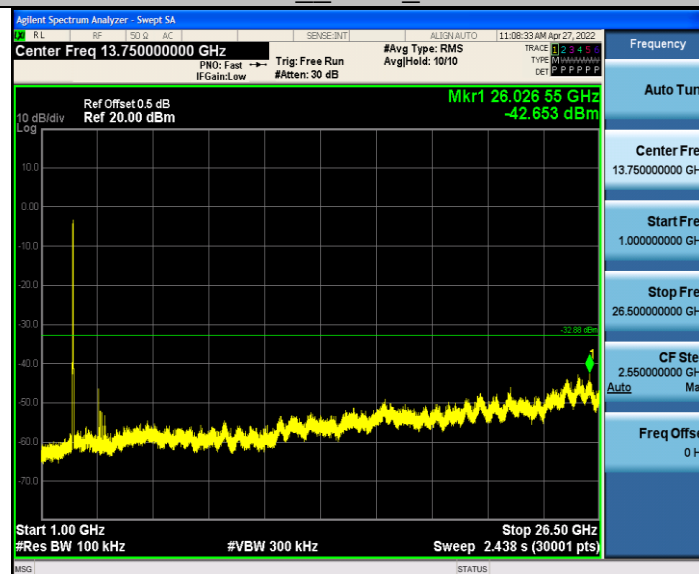
11N40SISO_2452_0~Reference



11N40SISO_2452_30~1000



11N40SISO_2452_1000~26500



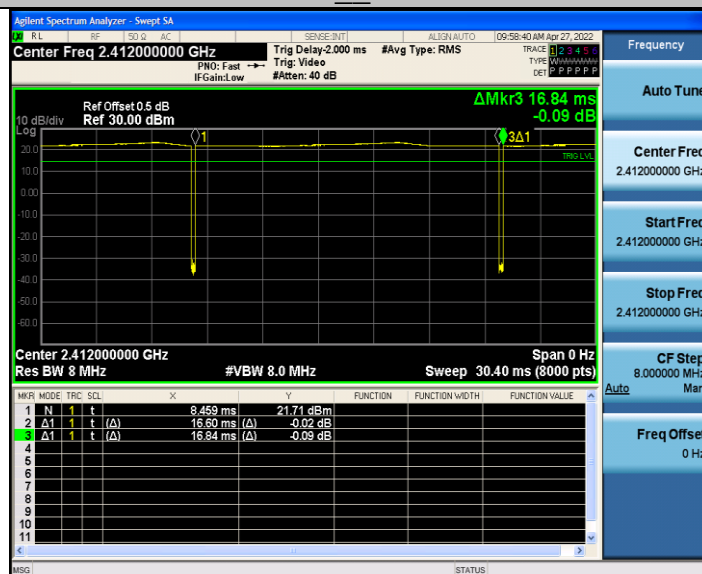
Duty Cycle

Test Result

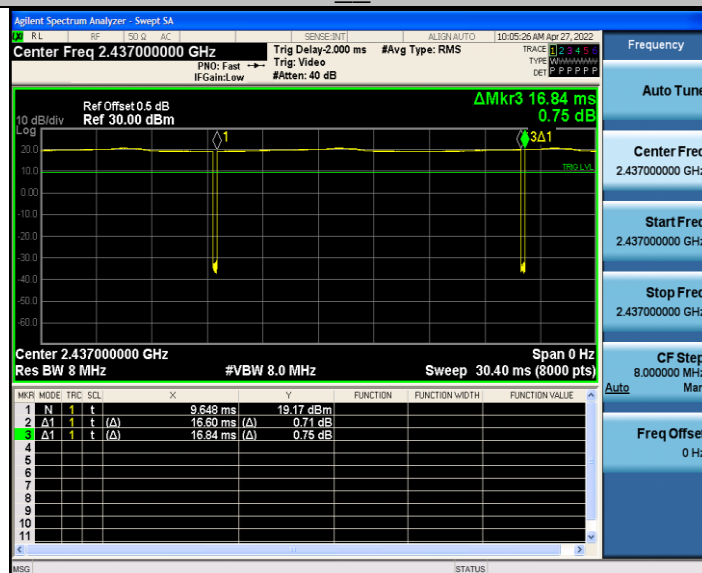
Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Correction Factor [dB]	Verdict
11B	2412	16.60	16.84	98.58	0	PASS
	2437	16.60	16.84	98.60	0	PASS
	2462	16.60	16.84	98.60	0	PASS
11G	2412	5.36	5.89	91.07	0.41	PASS
	2437	5.36	5.90	90.93	0.41	PASS
	2462	5.36	5.89	91.09	0.41	PASS
11N20SISO	2412	5.09	5.63	90.37	0.44	PASS
	2437	5.09	5.63	90.37	0.44	PASS
	2462	5.09	5.63	90.37	0.44	PASS
11N40SISO	2422	2.47	3.01	81.98	0.86	PASS
	2437	2.46	3.01	81.97	0.86	PASS
	2452	2.47	3.01	81.98	0.86	PASS

Test Graphs

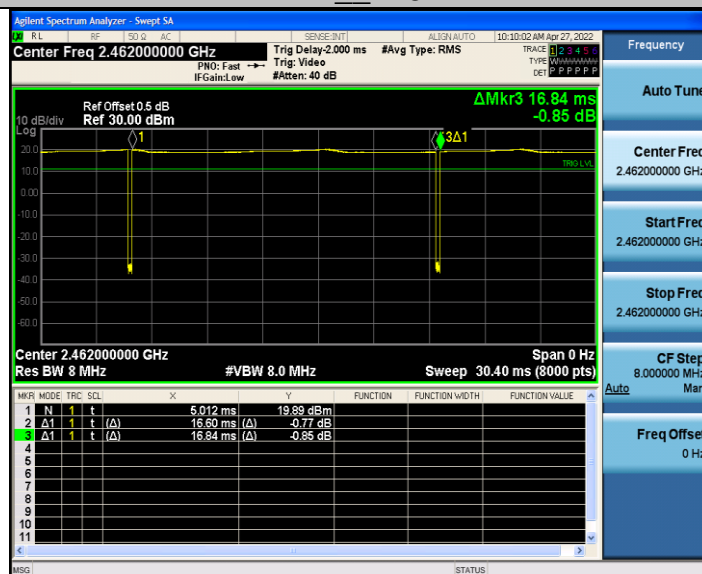
11B_2412



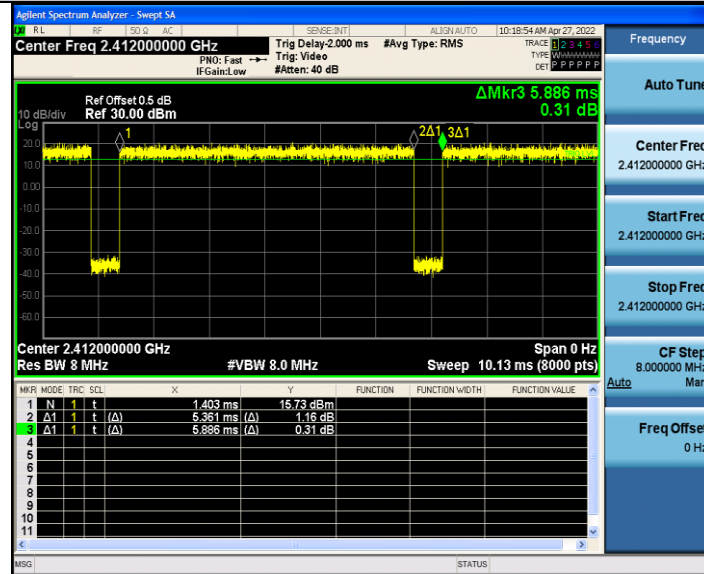
11B_2437



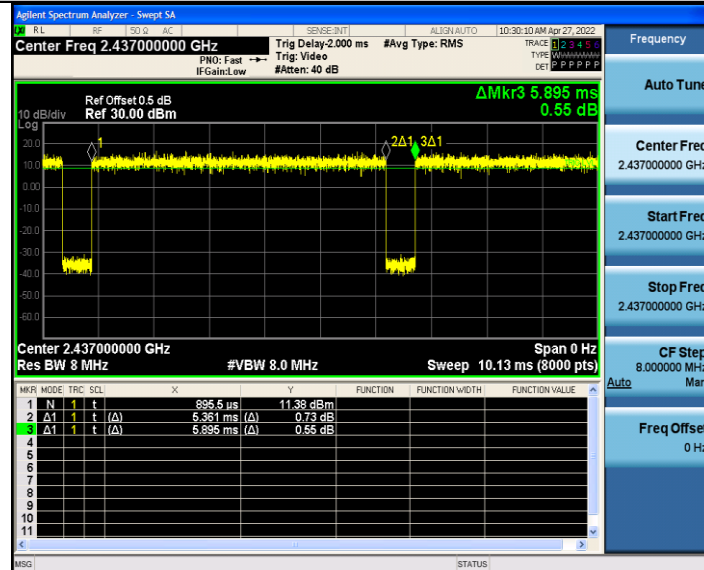
11B_2462



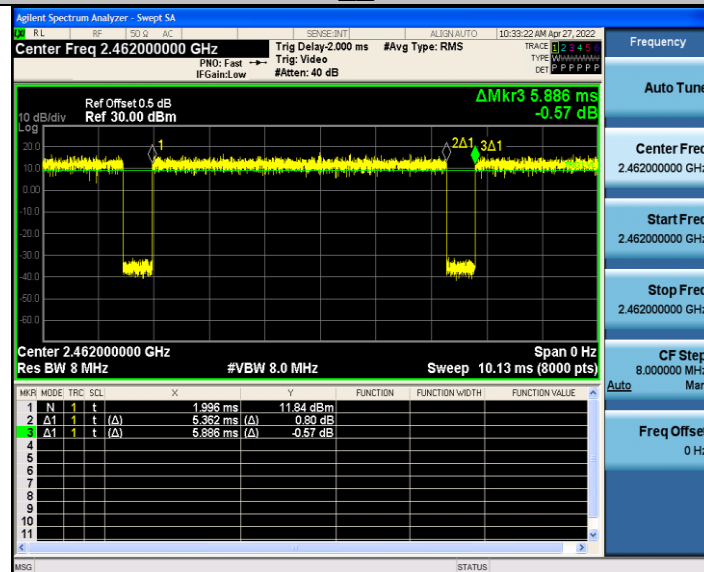
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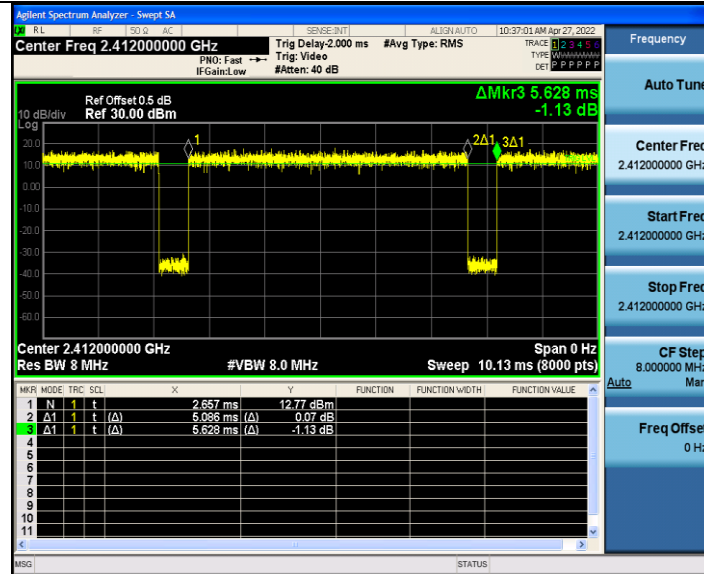
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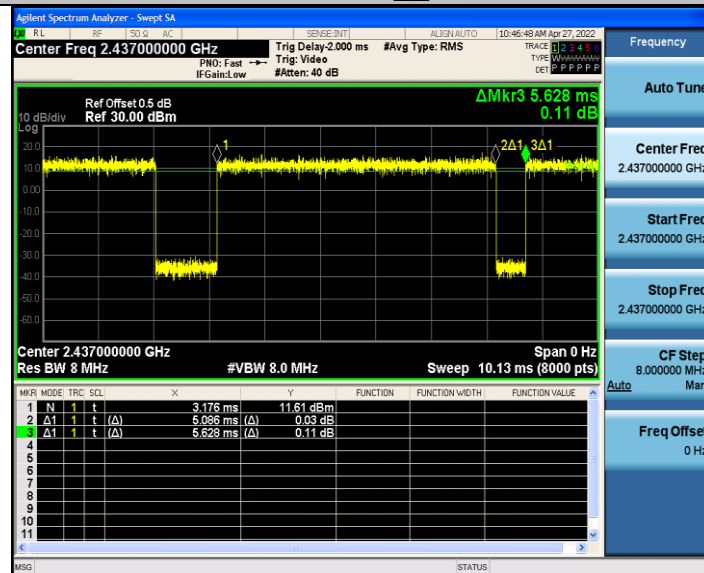
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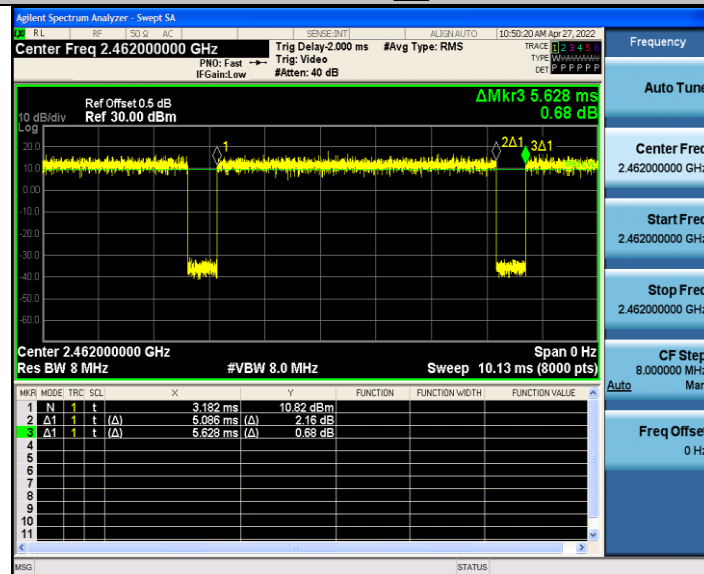
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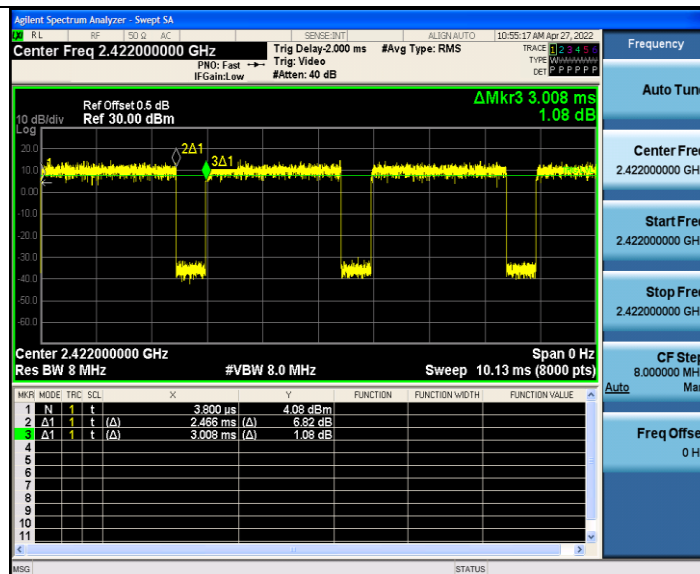
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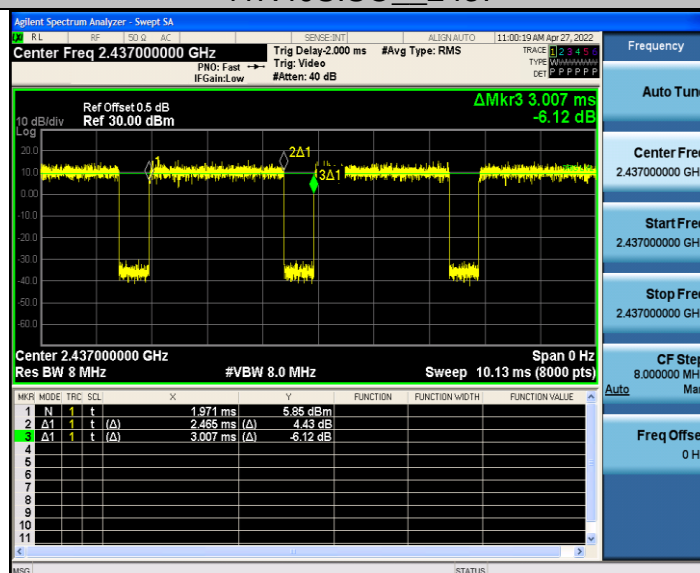
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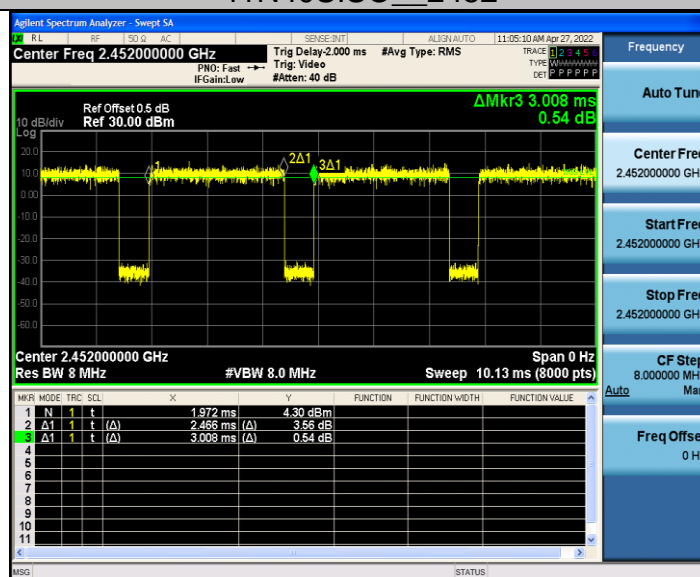
11N40SISO_2422



11N40SISO_2437



11N40SISO_2452



Appendix B: Photographs of Test Setup

Refer to the test report No. TCT220422E002

Appendix C: Photographs of EUT

Refer to the test report No. TCT220422E002

*******END OF REPORT*******