RADIO TEST REPORT
EN 301 893 V2.1.1 (2017-05)

Product：	Smartphone
Trade Mark：	CUBOT
Model Name：	KINGKONG MINI 2 PRO
Family Model：	N/A
Report No.：	S22032803205004

Prepared for

Shenzhen Huafurui Technology Co., Ltd

Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen,P.R. China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	Shenzhen Huafurui Technology Co., Ltd
Address	:	Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen,P.R. China
Manufacturer's Name	:	Shenzhen Huafurui Technology Co., Ltd
Address	:	Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen,P.R. China

Product description

Product name	:	Smartphone
Trademark	:	CUBOT
Model and/or type reference	:	KINGKONG MINI 2 PRO
Family Model	:	N/A
Standards	:	EN 301 893 V2.1.1 (2017-05)

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the of Radio Equipment Regulations (SI 2017/1206) requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Date of Test	:	
Date (s) of performance of tests	:	Mar 31. 2022 ~ Apr 18. 2022
Date of Issue	:	Apr 19. 2022
Test Result	:	**Pass**

Testing Engineer : (Allen Liu)

Authorized Signatory : (Alex Li)

Revision History

Report No.	Version	Description	Issued Date
S22032803205004	Rev.01	Initial issue of report	Apr 19. 2022

Table of Contents **Page**

Table of Contents **Page**

Table of Contents **Page**

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

ETSI EN 301 893 V2.1.1			
Clause	Test Item	Applicable	NOTE
4.2.1	Centre Frequencies	Compliance	
4.2.2	Nominal Channel Bandwidth and Occupied Channel Bandwidth	Compliance	
4.2.3	RF output power	Compliance	
4.2.3	Transmit Power Control (TPC)	Not Applicable	
4.2.3	Power Density	Compliance	
4.2.4.1	Transmitter unwanted emissions outside the 5 GHz RLAN bands	Compliance	
4.2.4.2	Transmitter unwanted emissions within the 5 GHz RLAN bands	Compliance	
4.2.5	Receiver spurious emissions	Compliance	
4.2.6	Dynamic Frequency Selection (DFS)	Not Applicable	
4.2.7	Adaptivity (Channel Access Mechanism)	Compliance	
4.2.8	Receiver Blocking	Compliance	
4.2.9	User Access Restrictions	Compliance*	
4.2.10	Geo-location capability	Compliance*	

Note:

1. Compliance*: Please refer to the product information declared by the manufacturer.
2. The antenna gain provided by customer is used to calculate the EIRP result. NTEK is not responsible for the accuracy of antenna gain parameter.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.
Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
FCC Registered No.: 238937 IC Registered No.:9270A-1
CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Smartphone</td></tr>
<tr><td>Trade Mark</td><td>CUBOT</td></tr>
<tr><td>Model Name.</td><td>KINGKONG MINI 2 PRO</td></tr>
<tr><td>Family Model</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a Smartphone
<table>
<tr><td>Operation Frequency:</td><td>802.11a/ n(20/40)/ac(20/40/80):
☒5180MHz~5240MHz(20MHz)
☒5190MHz~5230MHz(40MHz)
☒5210MHz(80MHz)</td></tr>
<tr><td>Modulation Type:</td><td>802.11a:
OFDM (BPSK / QPSK / 16QAM)
802.11n:
OFDM (QPSK/BPSK/16QAM/64QAM)
802.11ac:OFDM
(QPSK/BPSK/16QAM/64QAM/256QAM)</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11a: 6/9/12/18/24/36/48/54Mbps;
802.11n (20MHz): up to MCS0-7
802.11n (40MHz): up to MCS0-7
802.11ac (20MHz): up to MCS0-8
802.11ac (40MHz): up to MCS0-9
802.11ac (80MHz): up to MCS0-9</td></tr>
<tr><td>Number Of Channel</td><td>Please see Note 2.</td></tr>
<tr><td>Antenna Designation:</td><td>PIFA Antenna</td></tr>
<tr><td>Antenna Gain(Peak)</td><td>1.88dBi</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Refer to below</td></tr>
<tr><td>Adapter</td><td>Model: HJ-0501000B3-UK
Input: 100-240V~50/60Hz, 0.15A
Output: 5.0V⎓1.0A, 5.0W</td></tr>
<tr><td>Battery</td><td>DC 3.85V, 3000mAh</td></tr>
<tr><td>Rating</td><td>DC 3.85V from battery or DC 5V from Adapter.</td></tr>
<tr><td>Hardware Version</td><td>LD936_MB_V1.0</td></tr>
<tr><td>Software Version</td><td>CUBOT_KINGKONG MINI 2 Pro_C021C_V01</td></tr>
</table>

Note:	
1.	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2.	☒

802.11a/n/ac(20MHz) Carrier Frequency Channel

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

☒

802.11n/ac(40MHz) Carrier Frequency Channel

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

☒

802.11ac (80MHz) Carrier Frequency Channel

Channel	Frequency (MHz)
42	5210

2.2 TEST CONDITIONS AND CHANNEL

Test conditions:

	Normal Test Conditions	Extreme Test Conditions
Temperature	15°C - 35°C	40°C ~ -10°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.85V	/

Note:

(1) The HT 40°C and LT -10°C was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

Test channels:

Please refer to the table below:

Test	Clause	Test channels		
		Lower sub-band (5 150 MHz to 5 350 MHz)		Higher sub-band 5 470 MHz to 5 725 MHz
		5 150 MHz to 5 250 MHz	5 250 MHz to 5 350 MHz	
Centre frequencies	5.4.2	C7 (see note 1)		C8 (see note 1)
Occupied Channel Bandwidth	5.4.3	C7		C8
Power/ Power Density	5.4.4	C1	C2	C3, C4
Transmitter unwanted emissions outside the 5 GHz RLAN bands	5.4.5	C7 (see note 1)		C8 (see note 1)
Transmitter unwanted emissions within the 5 GHz RLAN bands	5.4.6	C1	C2	C3, C4
Receiver spurious emissions	5.4.7	C7 (see note 1)		C8 (see note 1)
Transmit Power Control (TPC)	5.4.4	n.a. (see note 2)	C2 (see note 1)	C3, C4 (see note 1)
Dynamic Frequency Selection (DFS)	5.4.8	n.a. (see note 2)	C5	C6 (see note 3)
Adaptivity	5.4.9	C9		
Receiver Blocking	5.4.10	C7		C8

C1, C3: The lowest declared channel for every declared Nominal Channel Bandwidth within this band. For the Power Density testing, it is sufficient to only perform this test using the lowest Nominal Channel Bandwidth.
C2, C4: The highest declared channel for every declared Nominal Channel Bandwidth within this band. For the Power Density testing, it is sufficient to only perform this test using the lowest Nominal Channel Bandwidth.
C5, C6: One channel out of the declared channels for this frequency range. If more than one Nominal Channel Bandwidth has been declared for this sub-band, testing shall be performed using the lowest and highest Nominal Channel Bandwidth.
C7, C8: One channel out of the declared channels for this sub-band. For Occupied Channel Bandwidth, testing shall be repeated for every declared Nominal Channel Bandwidth within this sub-band.
C9: One channel (in case of single-channel testing) or a group of channels (in case of multi-channel testing) out of the declared channels.

NOTE 1: In case of more than one channel plan has been declared, testing of these specific requirements need only be performed using one of the declared channel plans.
NOTE 2: Testing is not required for Nominal Channel Bandwidths that fall completely within the frequency range 5 150 MHz to 5 250 MHz.
NOTE 3: Where the declared channel plan includes channels whose Nominal Channel Bandwidth falls completely or partly within the 5 600 MHz to 5 650 MHz band, the tests for the Channel Availability Check (and where implemented, for the Off-Channel CAC) shall be performed on one of these channels in addition to a channel within the band 5 470 MHz to 5 600 MHz or within the band 5 650 MHz to 5 725 MHz.
NOTE 4: For Receiver Blocking, just test the channel of smallest channel bandwidth and the lowest data rate.

2.3 DESCRIPTION OF TEST CONDITIONS

2.4 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.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Smartphone	KINGKONG MINI 2 PRO	N/A	EUT

Item	Type	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
EMI Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
Turn Table	EM	SC100_1	60531	N/A	N/A	N/A
Antnna Mast	EM	SC100	N/A	N/A	N/A	N/A
Horn Antenna	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2021.07.01	2022.06.30	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
Attenuator	Weinschel	33-10-33	AR4010	2020.04.07	2023.04.06	3 year
Attenuator	Weinschel	24-20-34	BP4485	2020.04.07	2023.04.06	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2021.04.27	2022.04.26	1 year
PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2021.07.01	2022.06.30	1 year
Power Splitter	Mini-Circuits/USA	ZN2PD-63-S+	SF025101428	2020.04.07	2023.04.06	3 year
Coupler	Mini-Circuits	ZADC-10-63-S+	SF794101410	2020.04.07	2023.04.06	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2020.07.17	2023.07.16	3 year
Attenuator	Agilent	8495B	MY42147029	2020.04.13	2023.04.12	3 year
Power Meter	DARE	RPR3006W	15I00041SNO84	2021.07.01	2022.06.30	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2021.04.27	2022.04.26	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2021.07.01	2022.06.30	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
Temperature & Humitidy Chamber	GIANT FORCE	GTH-056P	GF-94454-1	2021.04.27	2022.04.26	1 year

3. CENTRE FREQUENCIES

3.1 APPLIED PROCEDURES / LIMIT

3.1.1 LIMIT

The actual centre frequency for any given channel declared by the manufacturer shall be maintained within the range fc ± 20 ppm

3.1.2 TEST PROCEDURES

Test conditions

These measurements shall be performed under both normal and extreme test conditions (see clause 5.1.1).

The channels on which the conformance requirements in clause 4.2 shall be verified are defined in clause 5.1.3.

The UUT shall be configured to operate at a normal RF Output Power level. In addition, the UUT shall be configured to operate on a single channel.

For a UUT with antenna connector(s) and using dedicated external antenna(s), or for a UUT with integral antenna(s) but with a temporary antenna connector(s) provided, conducted measurements shall be used.

In case of conducted measurements on smart antenna systems (devices with multiple transmit chains) the measurements shall be performed on only one of the active transmit chains.

For a UUT with integral antenna(s) and without a temporary antenna connector(s), radiated measurements shall be used.

3.1.3 TEST MOTHOD

Conducted measurement：

1. Equipment operating without modulation

This test method requires that the UUT can be operated in an unmodulated test mode.

The UUT shall be connected to a frequency counter and operated in an unmodulated mode. The result shallbe recorded.

2. Equipment operating with modulation

This method is an alternative to the above method in case the UUT cannot be operated in an un-modulated mode.

The UUT shall be connected to spectrum analyser.

The settings of the spectrum analyser shall be adjusted to optimize the instruments frequency accuracy.

Max Hold shall be selected and the centre frequency adjusted to that of the UUT.

The peak value of the power envelope shall be measured and noted. The span shall be reduced and the marker moved in a positive frequency increment until the upper, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f1.

The marker shall then be moved in a negative frequency increment until the lower, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f2.

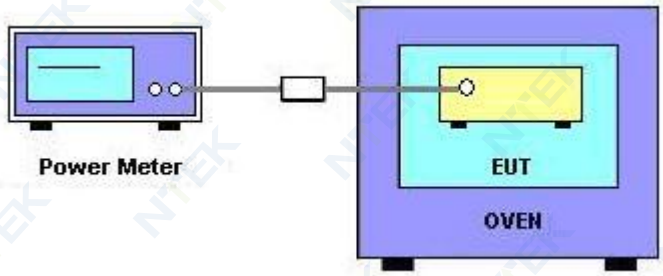
The centre frequency is calculated as (f1 + f2) / 2.

Radiated measurement：

The test set up as described in annex B (ETSI EN 301 893 V2.1.1) shall be used with a spectrum analyser of sufficient accuracy attached to the test antenna.

The test procedure is as described under conducted measurement.

3.1.4 TEST SETUP LAYOUT



3.1.5 TEST RESULTS

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	20 ℃	Relative Humidity	54%
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	Tx Mode-802.11(a/n20/n40/ac20/ac40/ac80)		

802.11a

TEST CONDITIONS				Reference Frequency：5180MHz			
				fL	fH	(fL+fH)/2	Frequency Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85V	5171.63	5188.38	5180.005	0.965
T min (°C)	-10	V nom (V)		5171.66	5188.39	5180.025	4.826
T max (°C)	40	V nom (V)		5171.62	5188.41	5180.015	2.896
Limits				± 20 ppm			
Result				**Complies**			

802.11n20

TEST CONDITIONS				Reference Frequency：5180MHz			
				fL	fH	(fL+fH)/2	Frequency Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85V	5171.00	5188.92	5179.960	-7.722
T min (°C)	-10	V nom (V)		5171.09	5188.89	5179.990	-1.931
T max (°C)	40	V nom (V)		5170.92	5188.97	5179.945	-10.618
Limits				± 20 ppm			
Result				**Complies**			

802.11n40

TEST CONDITIONS				Reference Frequency：5190MHz			
				fL	fH	(fL+fH)/2	Frequency Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85V	5171.56	5208.32	5189.940	-11.561
T min (°C)	-10	V nom (V)		5171.51	5208.31	5189.910	-17.341
T max (°C)	40	V nom (V)		5171.49	5208.36	5189.925	-14.451
Limits				± 20 ppm			
Result				**Complies**			

802.11ac20

TEST CONDITIONS				Reference Frequency：5180MHz			
				fL	fH	(fL+fH)/2	Frequency Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85V	5171.00	5188.96	5179.980	-3.861
T min (°C)	-10	V nom (V)		5171.02	5188.91	5179.965	-6.757
T max (°C)	40	V nom (V)		5171.04	5188.95	5179.995	-0.965
Limits				± 20 ppm			
Result				**Complies**			

802.11ac40

TEST CONDITIONS				Reference Frequency：5190MHz			
				fL	fH	(fL+fH)/2	Frequency Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85V	5171.56	5208.32	5189.940	-11.561
T min (°C)	-10	V nom (V)		5171.66	5208.31	5189.985	-2.890
T max (°C)	40	V nom (V)		5171.55	5208.29	5189.920	-15.414
Limits				± 20 ppm			
Result				**Complies**			

802.11ac80

TEST CONDITIONS				Reference Frequency：5210MHz			
				fL	fH	(fL+fH)/2	Frequency Deviation (ppm)
T nom (°C)	20	V nom (V)	3.85V	5171.56	5248.32	5209.940	-11.516
T min (°C)	-10	V nom (V)		5171.52	5248.36	5209.940	-11.516
T max (°C)	40	V nom (V)		5171.49	5248.39	5209.940	-11.516
Limits				± 20 ppm			
Result				**Complies**			

4. NOMINAL CHANNEL BANDWIDTH AND OCCUPIED CHANNEL BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

4.1.1 LIMIT

The Nominal Channel Bandwidth shall be at least 5 MHz at all times.

The Occupied Channel Bandwidth shall be between 80 % and 100 % of the declared Nominal Channel Bandwidth. In case of smart antenna systems (devices with multiple transmit chains) each of the transmit chains shall meet this requirement.

NOTE: During an established communication, a device is allowed to operate temporarily in a mode where its Occupied Channel Bandwidth may be reduced to as low as 40 % of its Nominal Channel Bandwidth with a minimum of 4 MHz.

4.1.2 TEST PROCEDURES

Test conditions

The conformance requirements shall be verified only under normal operating conditions, and on those channels and channel bandwidths defined in clause 5.1.3(ETSI EN 301 893 V2.1.1).

The measurements shall be performed using normal operation of the equipment with the test signal applied.

The UUT shall be configured to operate at a typical RF power output level.

When equipment has simultaneous transmissions in adjacent channels, these transmissions may be considered as one signal with an actual Nominal Channel Bandwidth of 'n' times the individual Nominal Channel Bandwidth where 'n' is the number of adjacent channels. When equipment has simultaneous transmissions in non-adjacent channels, each power envelope shall be considered separately.

For a UUT with antenna connector(s) and using dedicated external antenna(s), or for a UUT with integral antenna(s) but with a temporary antenna connector(s) provided, conducted measurements shall be used.

In case of conducted measurements on smart antenna systems (devices with multiple transmit chains)measurements need only to be performed on one of the active transmit chains (antenna outputs).

For a UUT with integral antenna(s) and without a temporary antenna connector(s), radiated measurements shall be used.

4.1.3 TEST METHOD

Conducted measurement

The measurement procedure shall be as follows:

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test
- Resolution BW: 100 kHz
- Video BW: 300 kHz
- Frequency Span: 2 x Nominal Bandwidth (e.g. 40 MHz for a 20 MHz channel)
- > 1 s; for larger Nominal Bandwidths, the sweep time may be increased until a value where the sweep time has no impact on the RMS value of the signal
- Detector Mode: RMS
- Trace Mode: Max Hold

Step 2:

Wait for the trace to stabilize.

Step 3:

•Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

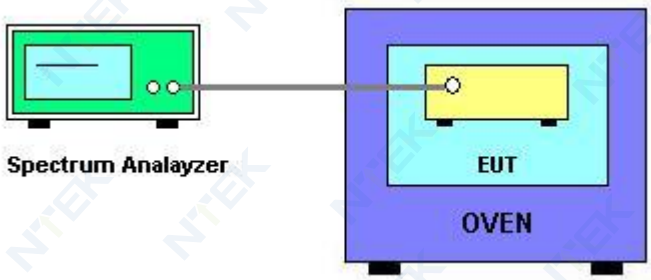
•Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

The measurement described in step 1 to step 3 above shall be repeated in case of simultaneous transmissions in non-adjacent channels.

Radiated measurement

The test set up as described in annex B (ETSI EN 301 893 V2.1.1) and the applicable measurement procedures described in annex C (ETSI EN 301 893 V2.1.1) shall be used. The test procedure is as described under conducted measurement.

4.1.4 TEST SETUP LAYOUT



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4.1.5 TEST RESULTS

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	54 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	TX Mode-802.11(a/n20/n40/ac20/ac40/ac80)		

Test data reference attachment

5. RF OUTPUT POWER, TRANSMIT POWER CONTROL (TPC) AND POWER DENSITY

5.1 APPLIED PROCEDURES / LIMIT

TPC is not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.

For devices with TPC, the RF output power and the power density when configured to operate at the highest stated power level of the TPC range shall not exceed the levels given in table 2.

Devices are allowed to operate without TPC. See table 2 for the applicable limits in this case.

Table 2: Mean e.i.r.p. limits for RF output power and power density at the highest power level

Frequency range [MHz]	Mean e.i.r.p. limit [dBm]		Mean e.i.r.p. density limit [dBm/MHz]	
	with TPC	without TPC	with TPC	without TPC
5 150 to 5 350	23	20/23 (see note 1)	10	7/10 (see note 2)
5 470 to 5 725	30 (see note 3)	27 (see note 3)	17 (see note 3)	14 (see note 3)
NOTE 1: The applicable limit is 20 dBm, except for transmissions whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz, in which case the applicable limit is 23 dBm.				
NOTE 2: The applicable limit is 7 dBm/MHz, except for transmissions whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz, in which case the applicable limit is 10 dBm/MHz.				
NOTE 3: Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5 250 MHz to 5 350 MHz.				

For devices using TPC, the RF output power during a transmission burst when configured to operate at the lowest stated power level of the TPC range shall not exceed the levels given in table 3. For devices without TPC, the limits in table 3 do not apply.

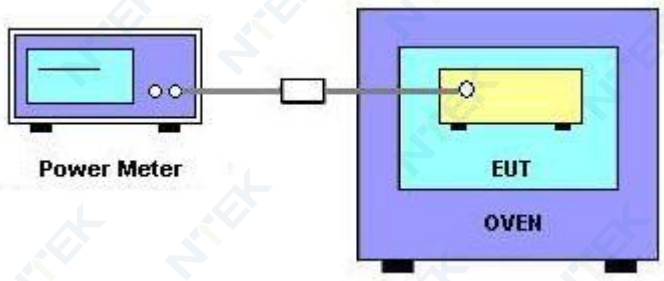
Table 3: Mean e.i.r.p. limits for RF output power at the lowest power level of the TPC range

Frequency range	Mean e.i.r.p. [dBm]
5 250 MHz to 5 350 MHz	17
5 470 MHz to 5 725 MHz	24 (see note)
NOTE: Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5 250 MHz to 5 350 MHz.	

5.2 TEST PROCEDURES

According to EN 301 893 V2.1.1 (2017-05) §5.4.4

5.3 TEST SETUP LAYOUT



5.4 TEST RESULTS

RF Output Power

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	54 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	Tx Mode-802.11(a/n20/n40/ac20/ac40/ac80)		

Test data reference attachment

Power density

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	54 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	Tx Mode-802.11(a/n20/n40/ac20/ac40/ac80)		

Test data reference attachment

6. TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 5 GHZ RLAN BANDS

6.1 APPLIED PROCEDURES / LIMIT

The level of transmitter unwanted emissions outside the 5 GHz RLAN bands shall not exceed the limits given in table 4.

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted) and to the emissions radiated by the cabinet. In case of integral antenna equipment (without temporary antenna connectors), these limits apply to emissions radiated by the equipment

Table 4: Transmitter unwanted emission limits outside the 5 GHz RLAN bands

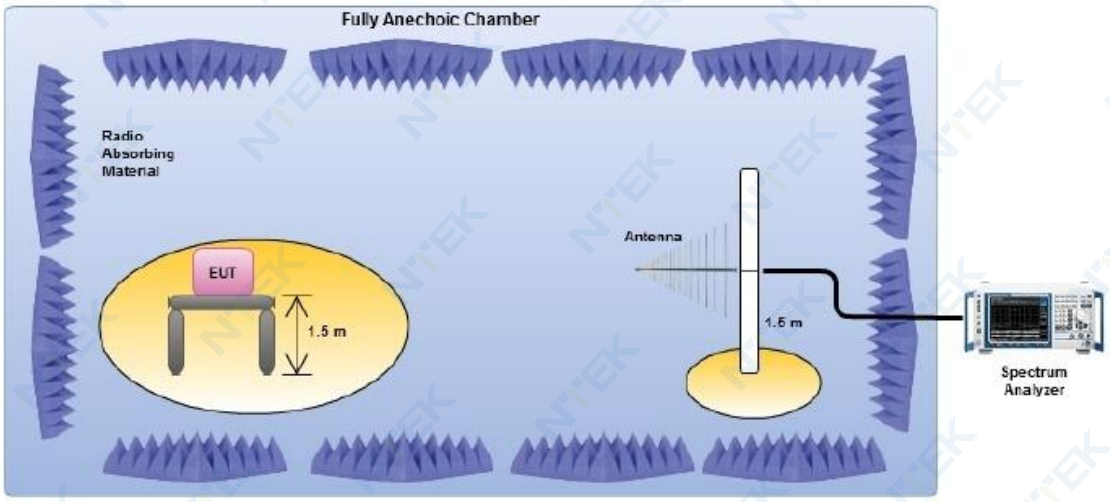
Frequency range	Maximum power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 5,15 GHz	-30 dBm	1 MHz
5,35 GHz to 5,47 GHz	-30 dBm	1 MHz
5,725 GHz to 26 GHz	-30 dBm	1 MHz

6.1.1 CONFORMANCE

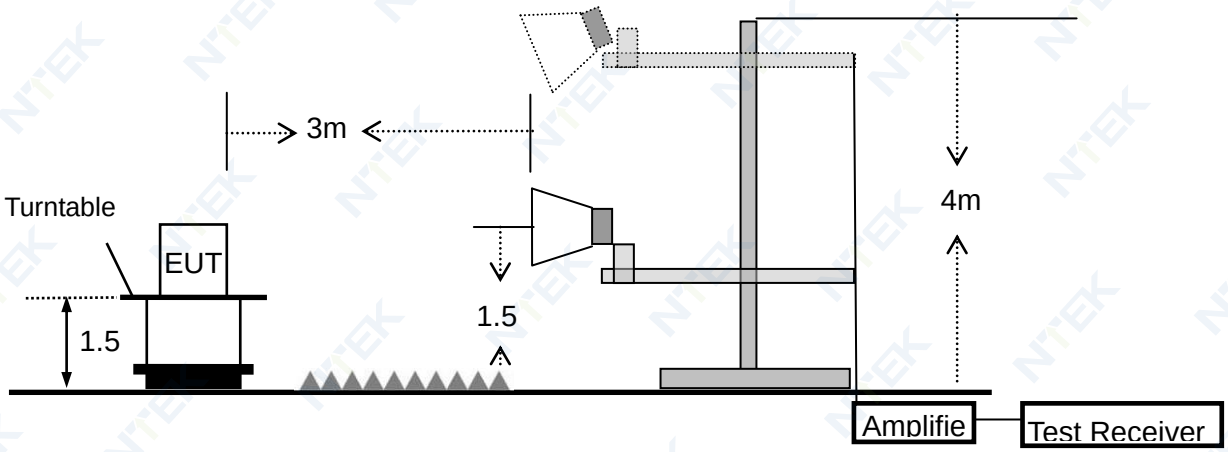
Conformance tests as defined in clause 5.4.5 shall be carried out.

6.1.2 TEST SETUP LAYOUT

(a) For radiated emissions below 1000MHz



(b) For radiated emissions above 1000MHz



6.1.3 TEST RESULTS (30MHz ~ 1000MHz)

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24 ℃	Relative Humidity：	57%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	TX-802.11a		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	44.501	-74.96	12.19	-62.77	-54	-8.77	peak
V	102.479	-76.17	14.95	-61.22	-36	-25.22	peak
V	194.59	-74.01	18.42	-55.59	-36	-19.59	peak
V	299.279	-86.51	24.77	-61.74	-54	-7.74	peak
V	562.112	-74.35	28.62	-45.73	-36	-9.73	peak
V	639.603	-75.65	29.96	-45.69	-36	-9.69	peak
H	46.902	-75.45	11.92	-63.53	-54	-9.53	peak
H	101.757	-77.53	12.58	-64.95	-36	-28.95	peak
H	211.503	-77.95	10.91	-67.04	-54	-13.04	peak
H	243.747	-87.92	22.16	-65.76	-54	-11.76	peak
H	552.917	-86.3	24.77	-61.53	-54	-7.53	peak
H	824.515	-76.01	28.62	-47.39	-36	-11.39	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit

Note: “802.11a” is the worst mode, the test report records only the worst-case test values.

6.1.4 TEST RESULTS (1.0GHz ~26GHz)

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	TX-802.11a (CH36/CH40/CH48)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
operation frequency:5180							
V	10360	-61.35	13.82	-47.53	-30	-17.53	peak
V	15540	-56.26	14.91	-41.35	-30	-11.35	peak
H	10360	-59.63	13.82	-45.81	-30	-15.81	peak
H	15540	-59.29	14.91	-44.38	-30	-14.38	peak
operation frequency:5200							
V	10400	-58.92	13	-45.92	-30	-15.92	peak
V	15600	-60.25	14.95	-45.3	-30	-15.3	peak
H	10400	-61.51	13	-48.51	-30	-18.51	peak
H	15600	-59.82	14.95	-44.87	-30	-14.87	peak
operation frequency:5240							
V	10480	-61.6	13.81	-47.79	-30	-17.79	peak
V	15720	-56.31	15.29	-41.02	-30	-11.02	peak
H	10480	-56.26	13.81	-42.45	-30	-12.45	peak
H	15720	-61.44	15.29	-46.15	-30	-16.15	peak

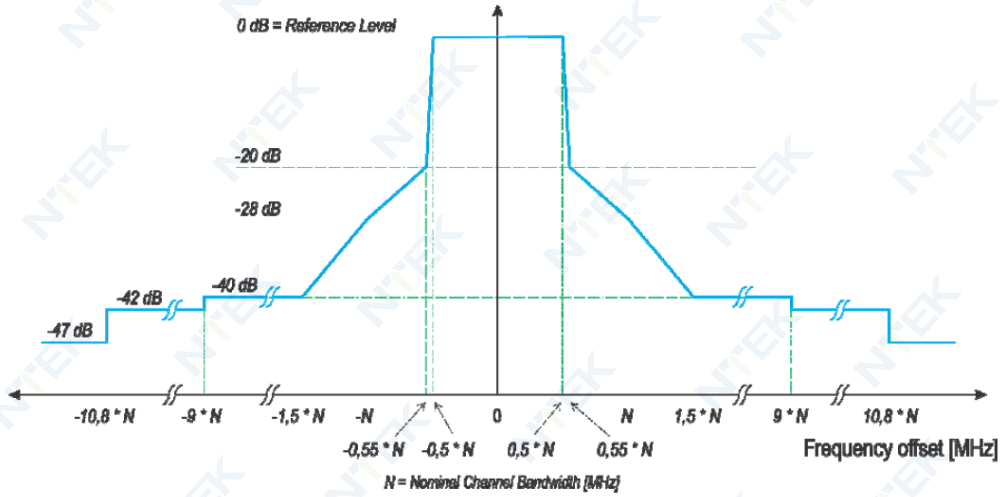
Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit

Note: “802.11a” is the worst mode, the test report records only the worst-case test values.

7. TRANSMITTER UNWANTED EMISSIONS WITHIN THE 5 GHZ RLAN BANDS

7.1 APPLIED PROCEDURES / LIMIT



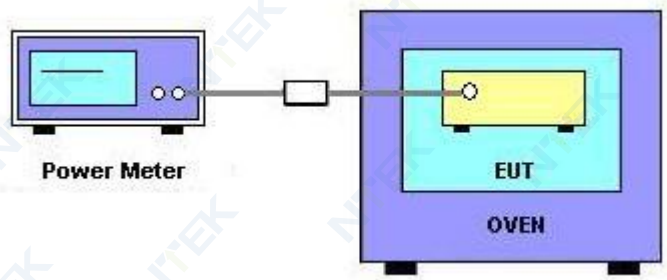
NOTE: dBc is the spectral density relative to the maximum spectral power density of the transmitted signal.

Figure 1: Transmit spectral power mask

7.1.1 TEST PROCEDURES

According to EN 301 893 V2.1.1 (2017-05) §5.4.6

7.1.2 TEST SETUP LAYOUT



7.1.3 TEST RESULTS

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	54 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V(NORMAL)
Test Mode ：	Tx Mode-802.11(a/n20/n40/ac20/ac40/ac80)		

Test data reference attachment

8. RECEIVER SPURIOUS EMISSIONS

8.1 APPLIED PROCEDURES / LIMIT

The spurious emissions of the receiver shall not exceed the limits given in table 5.
In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted) and to the emissions radiated by the cabinet. In case of integral antenna equipment (without temporary antenna connectors), these limits apply to emissions radiated by the equipment.

Table 5: Spurious radiated emission limits

Frequency range	Maximum power	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 26 GHz	-47 dBm	1 MHz

8.1.1 TEST PROCEDURES

According to EN 301 893 V2.1.1 (2017-05) §5.4.7

8.1.2 TEST SETUP LAYOUT

This test setup layout is the same as that shown in section 6.1.4

8.1.3 TEST RESULTS

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	57 %
Pressure：	1012 hPa	Test Power ：	DC 3.85V
Test Mode ：	RX-802.11a		

BELOW 1G

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	43.683	-72.19	6.48	-65.71	-57	-8.71	peak
V	109.024	-81.65	12.17	-69.48	-57	-12.48	peak
V	217.144	-78.41	15.64	-62.77	-57	-5.77	peak
V	281.912	-94.37	19.95	-74.42	-57	-17.42	peak
V	521.737	-83.67	20.6	-63.07	-57	-6.07	peak
H	46.559	-79.09	12.35	-66.74	-57	-9.74	peak
H	114.82	-80.34	10.84	-69.5	-57	-12.5	peak
H	177.506	-77.9	11.1	-66.8	-57	-9.8	peak
H	242.932	-82.38	17.87	-64.51	-57	-7.51	peak
H	616.011	-89.78	20.6	-69.18	-57	-12.18	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit

ABOVE 1G

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	2259.014	-64.13	7.58	-56.55	-47	-9.55	peak
V	3995.779	-62.73	8.36	-54.37	-47	-7.37	peak
V	2565.539	-64.57	8.96	-55.61	-47	-8.61	peak
V	4601.423	-63.31	5.16	-58.15	-47	-11.15	peak
H	2836.739	-64.58	7.73	-56.85	-47	-9.85	peak
H	5342.072	-63.89	8.2	-55.69	-47	-8.69	peak
H	2122.911	-63.48	8.27	-55.21	-47	-8.21	peak
H	5450.837	-64.46	5.18	-59.28	-47	-12.28	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit

Note: “802.11a” is the worst mode, the test report records only the worst-case test values.

9. ADAPTIVITY (CHANNEL ACCESS MECHANISM)

9.1 APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LILIT

This requirement applies to equipment, testing shall be performed using the highest nominal channel Bandwidth. The manufacturer shall state whether the UUT is capable of operating as a Frame Based Equipment or Load Based Equipment. See tables for the applicability of adaptive requirements and limit for each of the operational modes.

Applicability of adaptive requirements and limit

Requirement	Operational Mode		
	Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced)
Minimum Clear Channel Assessment (CCA) Time	20 us (see note 1)	(see note 2)	20 us (see note 1)
Maximum Channel Occupancy (COT) Time	1ms to 10 ms	(see note 2)	(13/32)*q ms (see note 3)
Minimum Idle Period	5% of COT	(see note 2)	NA
Extended CCA check	NA	(see note 2)	N*CCA (see note 4)
Short Control Signalling Transmissions	Maximum duty cycle of 5% within an observation period of 50 ms (see note 5)		
Note 1: The CCA time used by the equipment shall be declared by the manufacturer. Note 2: LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using 'energy detect', as described in IEEE 802.11™-2007[9], clauses 15 and 17, in IEEE 802.11n™ -2009[10], clauses 20. Note 3: q is selected by the manufacturer in the range [4…32] Note 4: The value of N shall be randomly selected in the range [1…q] Note 5: Adaptive equipment may or may not have Short Control Signaling Transmissions.			

Interference threshold level

Maximum transmit power (P_H) EIRP dBm	Threshold Level (TL) (see note 1 and 2)
9.81	-73 dBm / MHz
Note 1: TL = -73 dBm / MHz + (23 –PH)/ (1 MHz) (assuming a 0 dBi receive antenna and PH specified in dBm e.i.r.p) Note 2: Transmitter the CCA threshold level (TL) shall be equal or lower than -73 dBm / MHz at the input to the receiver (assuming a 0 dBi receive antenna).	

TEST PROCEDURE

Reference to EN 301 893 V2.1.1 (2017-05) clause 5.4.9

9.2 TEST SETUP CONFIGURATION

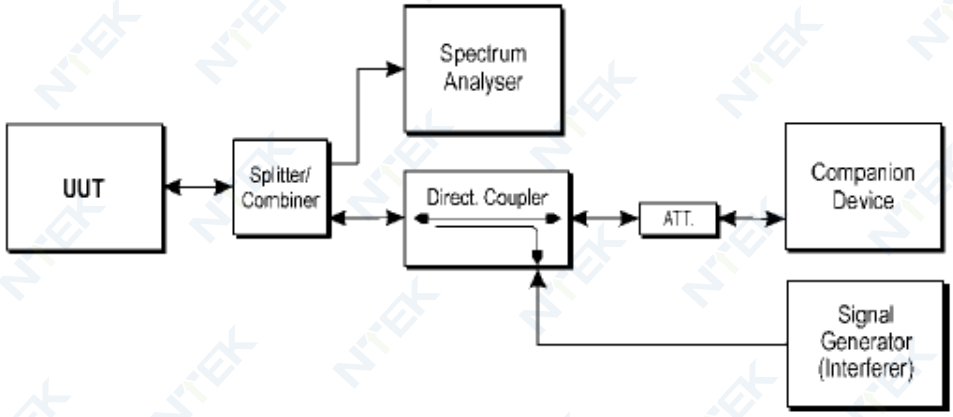


Figure 13: Example Test Set-up for verifying the adaptivity of an equipment

9.3 LIST OF MEASUREMENTS

UUT operational Mode		
Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced)
	V	

Clause	Test Parameter	Remarks	PASS/FAIL
4.9.2.1	Adaptive (Frame Based Equipment)	Not Applicable	N/A
4.9.2.2	Adaptive (Load Based Equipment)	Applicable	PASS
4.9.2.3	Short Control Signaling Transmissions	Applicable	PASS

9.4 TEST RESULTS

EUT：	Smartphone	Model Name ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	54 %
Pressure：	1012 hPa	Test Power ：	DC 3.85V
TEST RESULTS	Pass		

Test data reference attachment

10. RECEIVER BLOCKING

10.1 LIMITS OF RECEIVER BLOCKING

Performance Criteria

The minimum performance criterion shall be a PER of less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1, item s)).

While maintaining the minimum performance criteria as defined in clause 4.2.8.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined in table 7.

☒**Table 9: Receiver Blocking parameters**

Wanted signal mean power from companion device (dBm)	**Blocking signal Frequency (MHz)**	**Blocking signal power (dBm) (see note 2)**	**Type of blocking signal**
P_{min} + 6 dB	5 100	-59	CW
P_{min} + 6 dB	4 900 5 000 5 975	-53	CW
NOTE 1: Pmin is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.2.8.3 in the absence of any blocking signal. NOTE 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the same levels should be used at the antenna connector irrespective of antenna gain.			

10.2 TEST PROCEDURE

Refer to chapter 5.4.10 of EN 301 893 V2.1.1 (2017-05)

Measurement	
☒Conducted measurement	☐Radiated measurement

10.3 DEVIATION FROM TEST STANDARD

No deviation

10.4 TEST SETUP

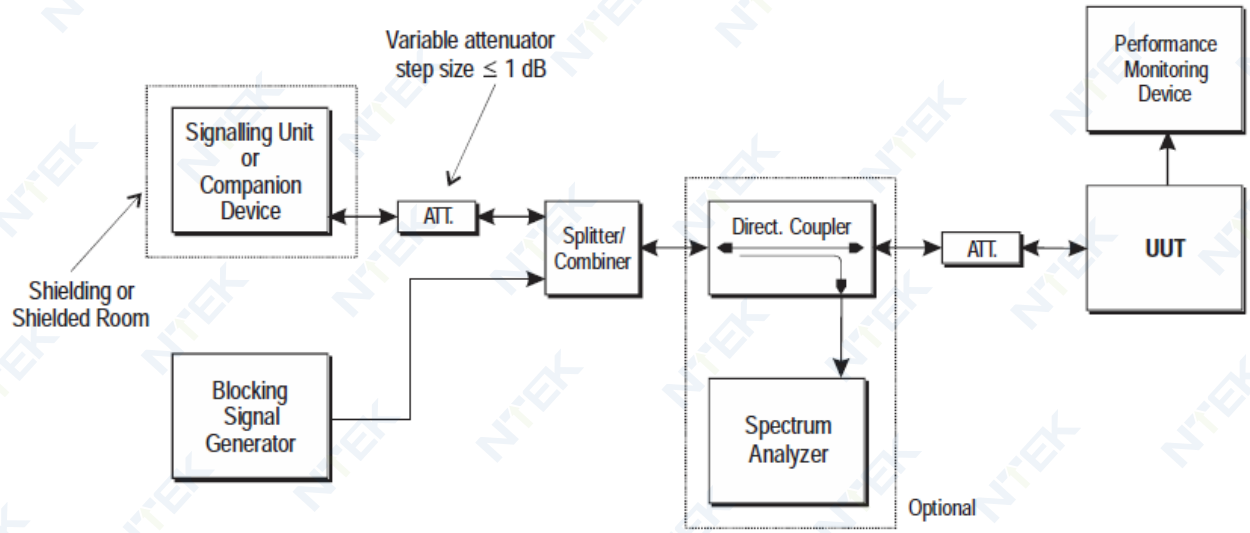


Figure 14: Test Set-up for receiver blocking

10.5 TEST RESULTS

EUT：	Smartphone	Model Number ：	KINGKONG MINI 2 PRO
Temperature：	24°C	Relative Humidity：	54 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	RX 802.11a		

CH 36-5180MHz

Wanted signal mean power from companion device (dBm) Note(1)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER % Note(1)	PER Limit %
-72 + 6 dB	5100	-59	0.35	≤10%
-72 + 6 dB	4900	-53	0.17	≤10%
	5000		0.25	
	5975		0.55	

CH 100-5500MHz

Wanted signal mean power from companion device (dBm) Note(1)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER % Note(1)	PER Limit %
-72 + 6 dB	5100	-59	0.43	≤10%
-72 + 6 dB	4900	-53	0.25	≤10%
	5000		0.52	
	5975		0.14	

Note: (1) The above results were obtained from laboratory tests.

11. USER ACCESS RESTRICTIONS

11.1 APPLIED PROCEDURES / LIMIT

The equipment shall be so constructed that settings (hardware and/or software) related to DFS shall not be accessible to the user if changing those settings result in the equipment no longer being compliant with the DFS requirements inclause 4.2.6.

The above requirement includes the prevention of indirect access to any setting that impacts DFS. The following is a non-exhaustive list of examples of such indirect access.

11.2 TEST RESULTS

The EUT is accord with User Access Restrictions

12. GEO-LOCATION CAPABILITY

12.1 APPLIED PROCEDURES / LIMIT

The geographic location determined by the equipment as defined in clause 4.2.10.2 shall not be accessible to the user.

If the equipment cannot determine the geographic location, it shall operate in a mode compliant with the requirements applicable in any of the geographic locations where the equipment is intended to operate.

12.2 TEST RESULTS

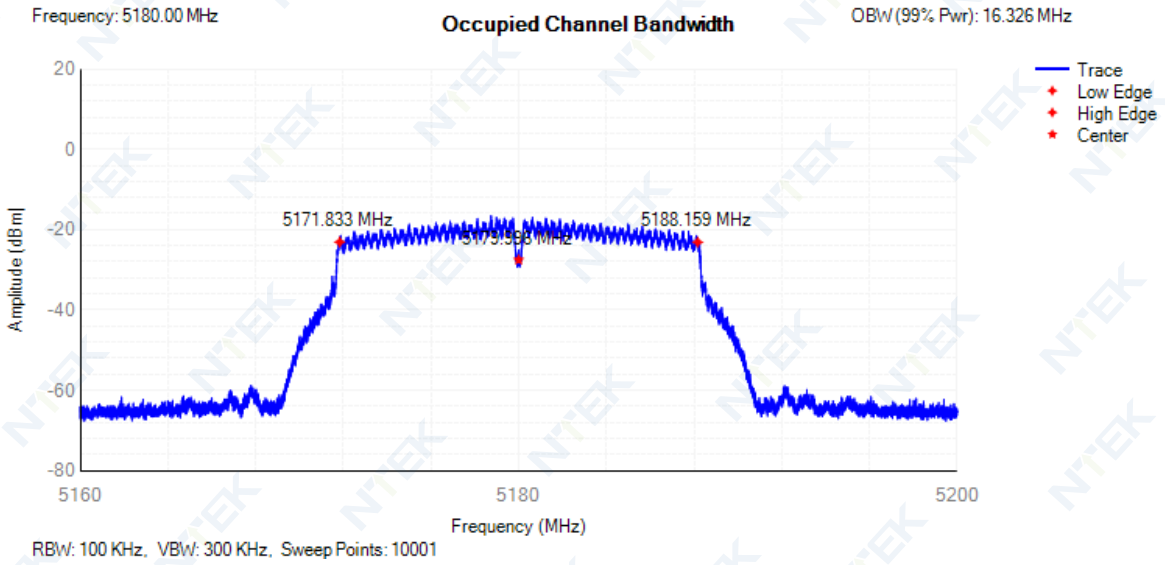
The EUT is accord with Geo-location capability

13 TEST RESULTS

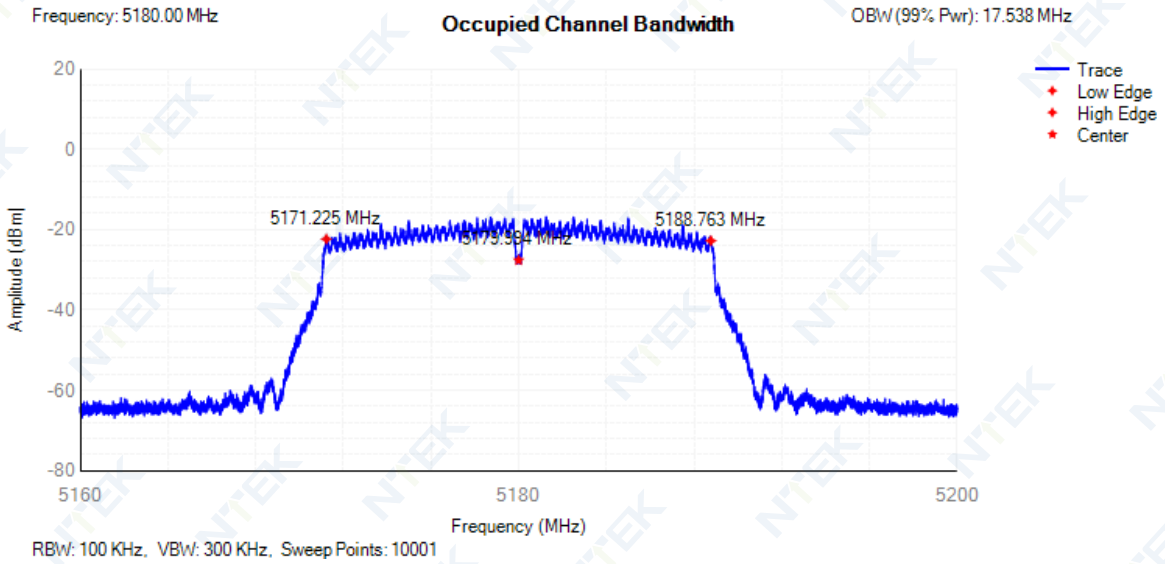
13.1 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Limit (MHz)	Upper Limit(MHz)	Verdict
NVNT	802.11a	5180	5179.996	16.326	16	20	Pass
NVNT	802.11ac20	5180	5179.994	17.538	16	20	Pass
NVNT	802.11ac40	5190	5190.028	35.908	32	40	Pass
NVNT	802.11ac80	5210	5210.008	75.08	64	80	Pass
NVNT	802.11n(HT20)	5180	5179.996	17.534	16	20	Pass
NVNT	802.11n(HT40)	5190	5190.028	35.892	32	40	Pass

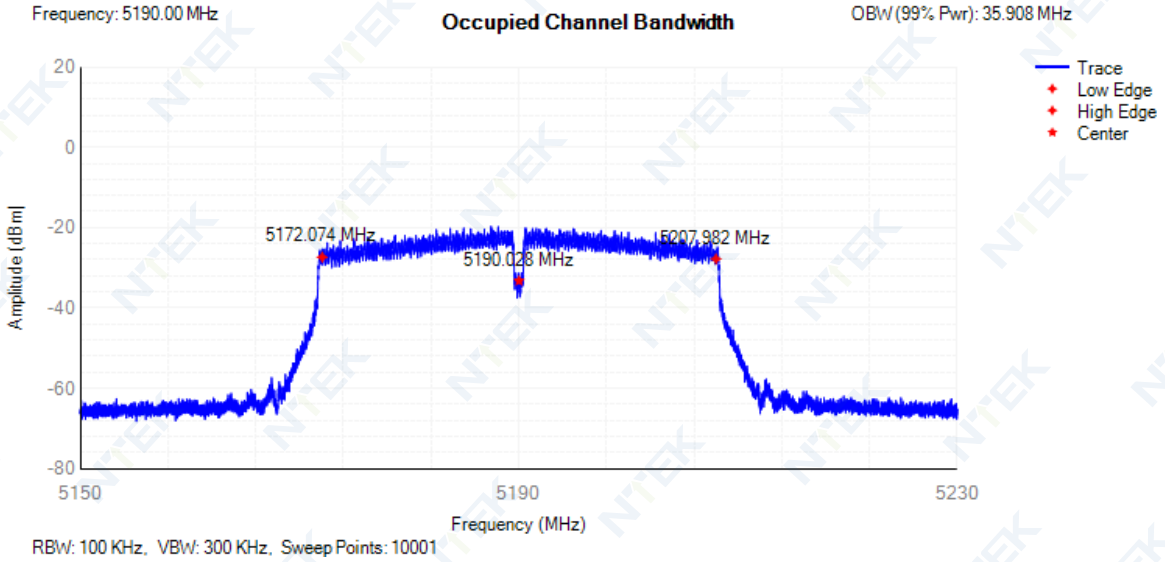
OBW NVNT 802.11a 5180MHz



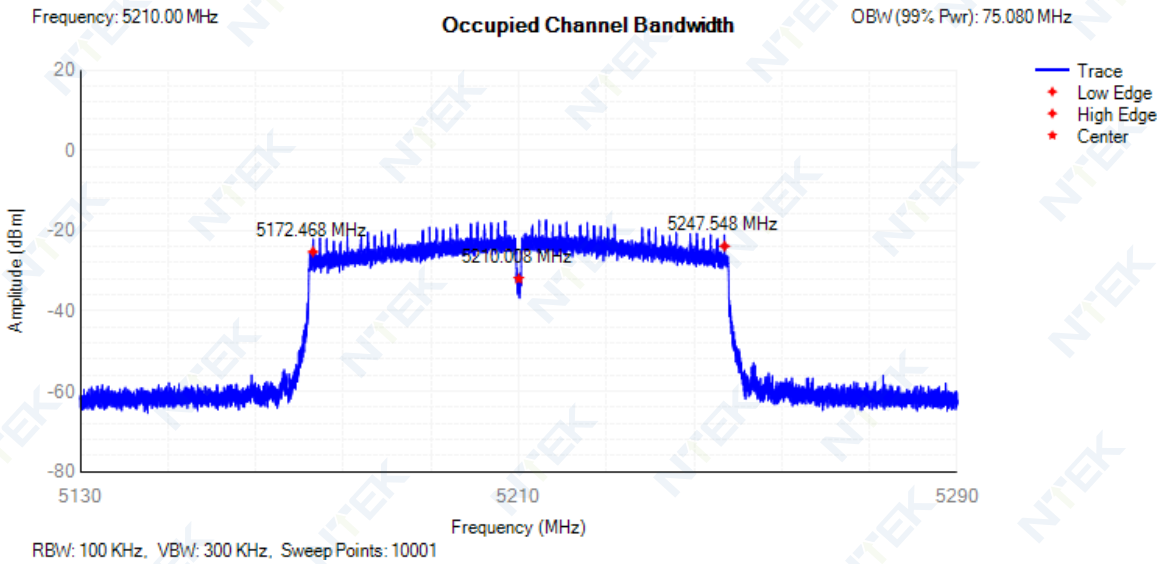
OBW NVNT 802.11ac20 5180MHz



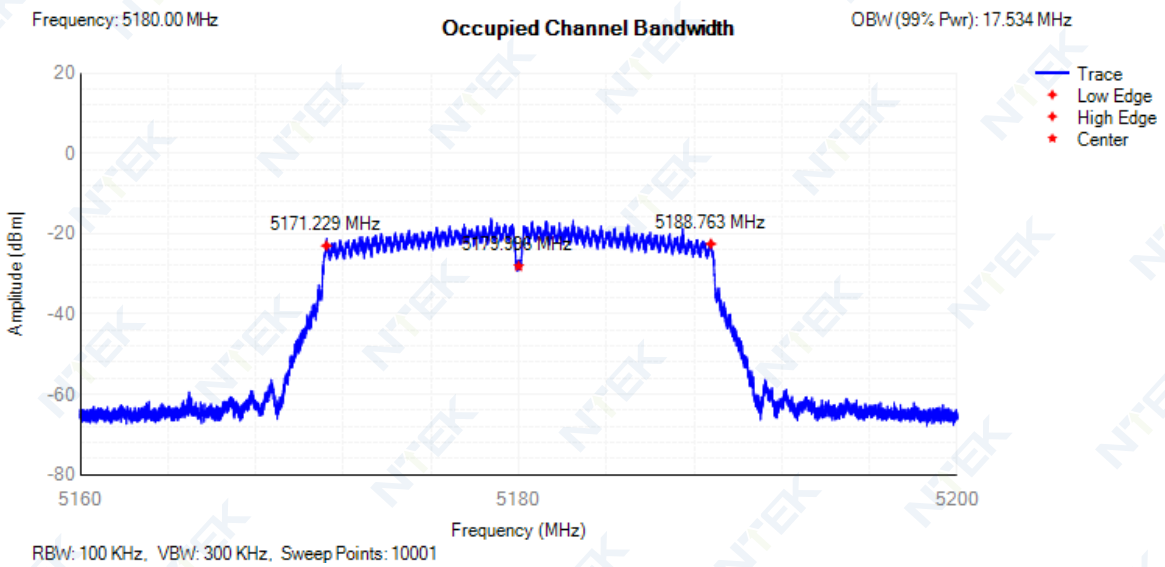
OBW NVNT 802.11ac40 5190MHz



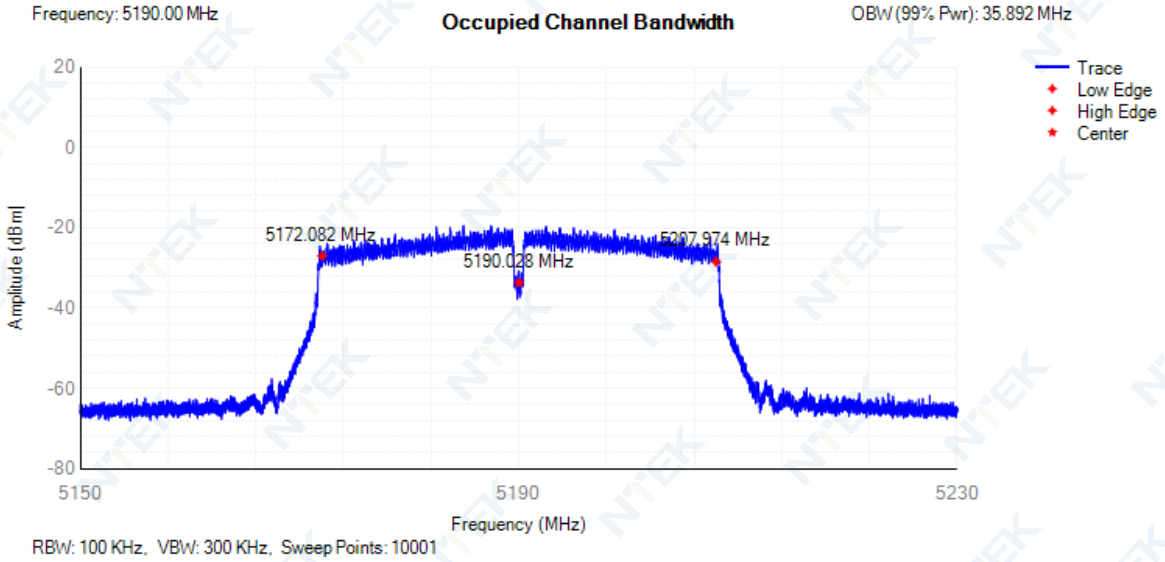
OBW NVNT 802.11ac80 5210MHz



OBW NVNT 802.11n(HT20) 5180MHz



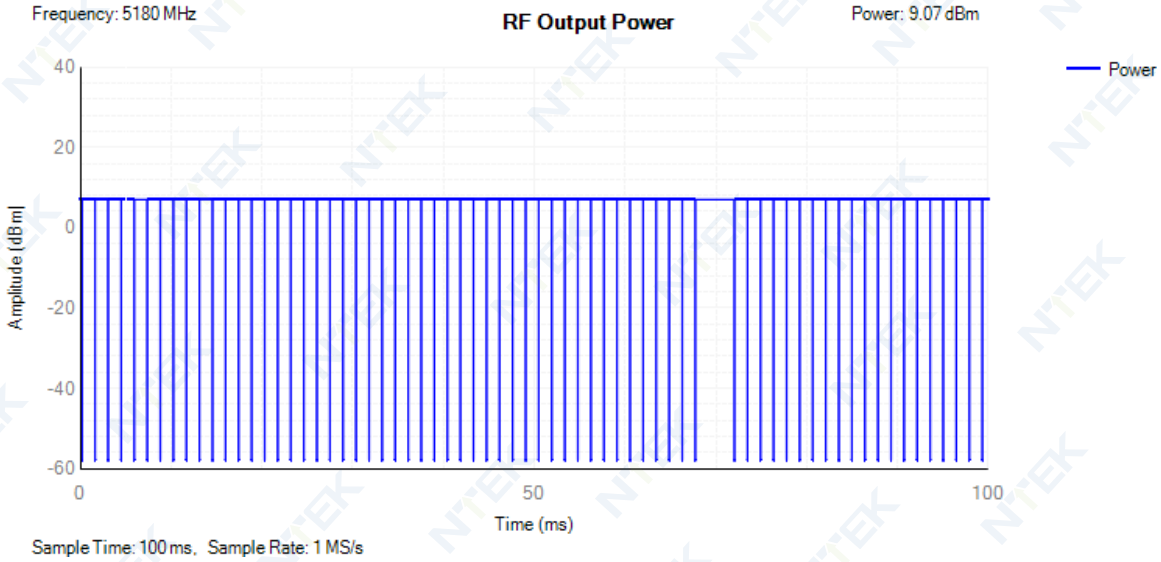
OBW NVNT 802.11n(HT40) 5190MHz



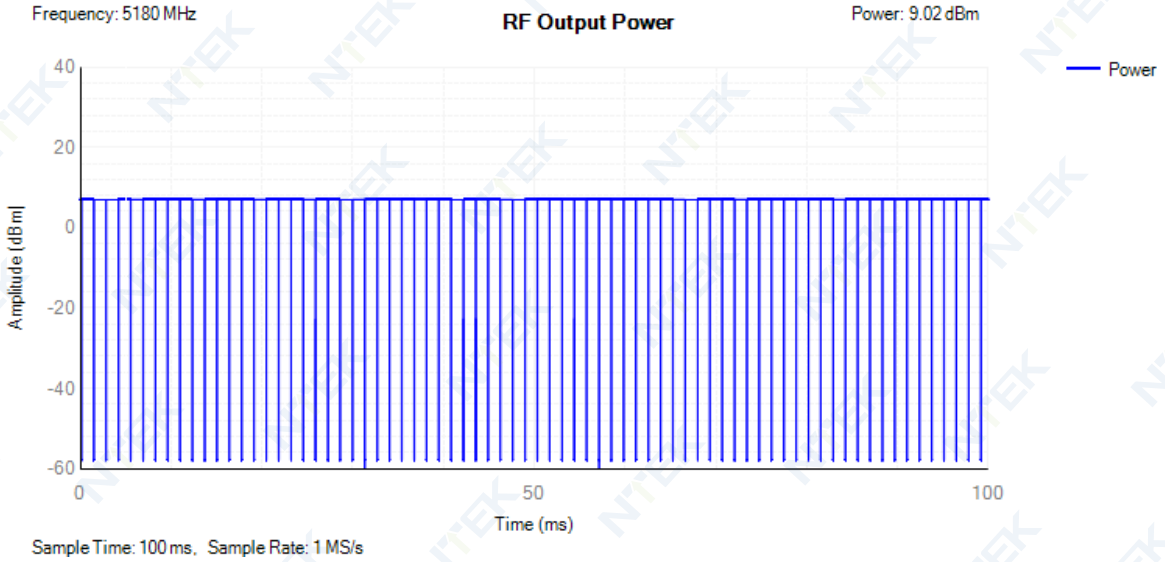
13.2 RF OUTPUT POWER

Condition	Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	7.19	69	9.07	23	Pass
NVNT	802.11ac20	5180	7.14	75	9.02	23	Pass
NVNT	802.11ac40	5190	7.24	143	9.12	23	Pass
NVNT	802.11ac80	5210	6.95	267	8.83	23	Pass
NVNT	802.11n(HT20)	5180	7.14	75	9.02	23	Pass
NVNT	802.11n(HT40)	5190	7.01	144	8.89	23	Pass
LTNV	802.11a	5180	7.07	104	8.95	23	Pass
LTNV	802.11ac20	5180	6.82	104	8.7	23	Pass
LTNV	802.11ac40	5190	6.76	104	8.64	23	Pass
LTNV	802.11ac80	5210	6.8	217	8.68	23	Pass
LTNV	802.11n(HT20)	5180	6.59	217	8.47	23	Pass
LTNV	802.11n(HT40)	5190	6.61	217	8.49	23	Pass
HTNV	802.11a	5180	6.98	52	8.86	23	Pass
HTNV	802.11ac20	5180	6.65	52	8.53	23	Pass
HTNV	802.11ac40	5190	6.57	52	8.45	23	Pass
HTNV	802.11ac80	5210	6.58	105	8.46	23	Pass
HTNV	802.11n(HT20)	5180	6.13	105	8.01	23	Pass
HTNV	802.11n(HT40)	5190	6.3	105	8.18	23	Pass

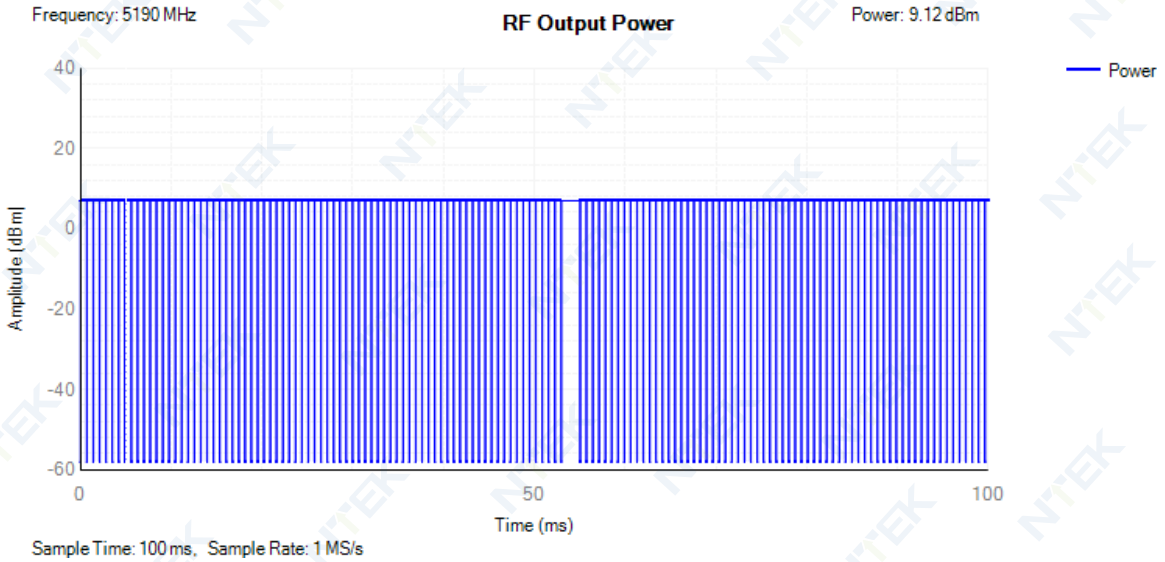
Power NVNT 802.11a 5180MHz



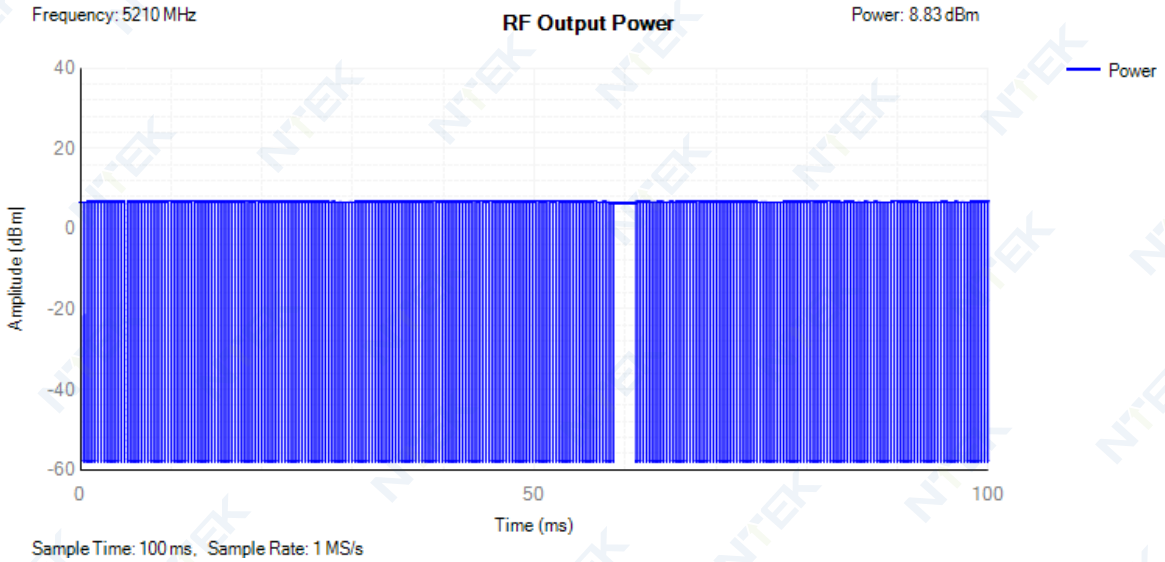
Power NVNT 802.11ac20 5180MHz



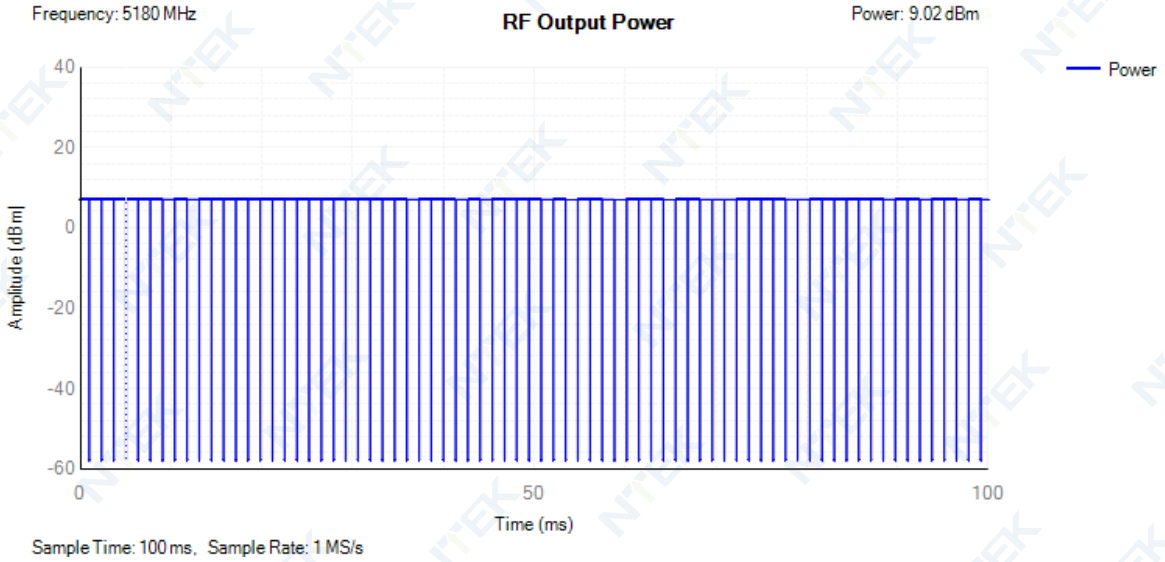
Power NVNT 802.11ac40 5190MHz



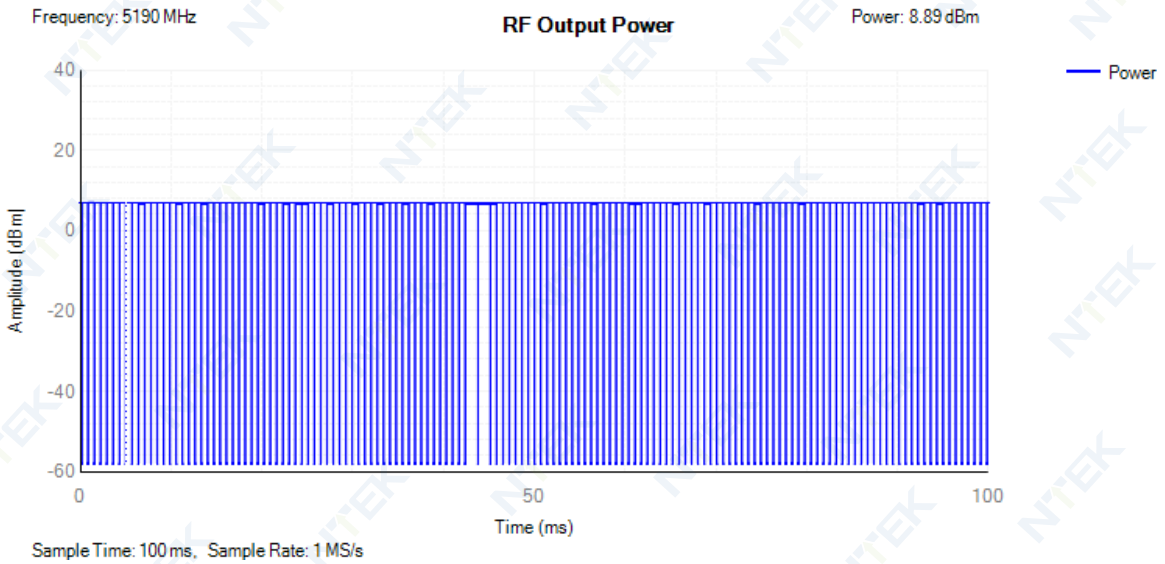
Power NVNT 802.11ac80 5210MHz



Power NVNT 802.11n(HT20) 5180MHz



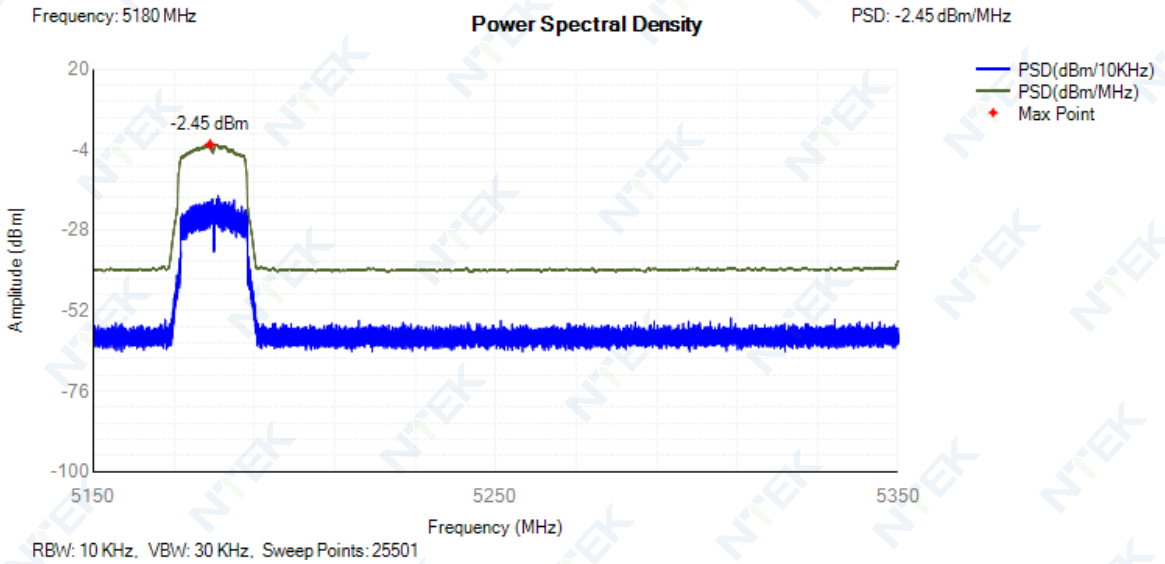
Power NVNT 802.11n(HT40) 5190MHz



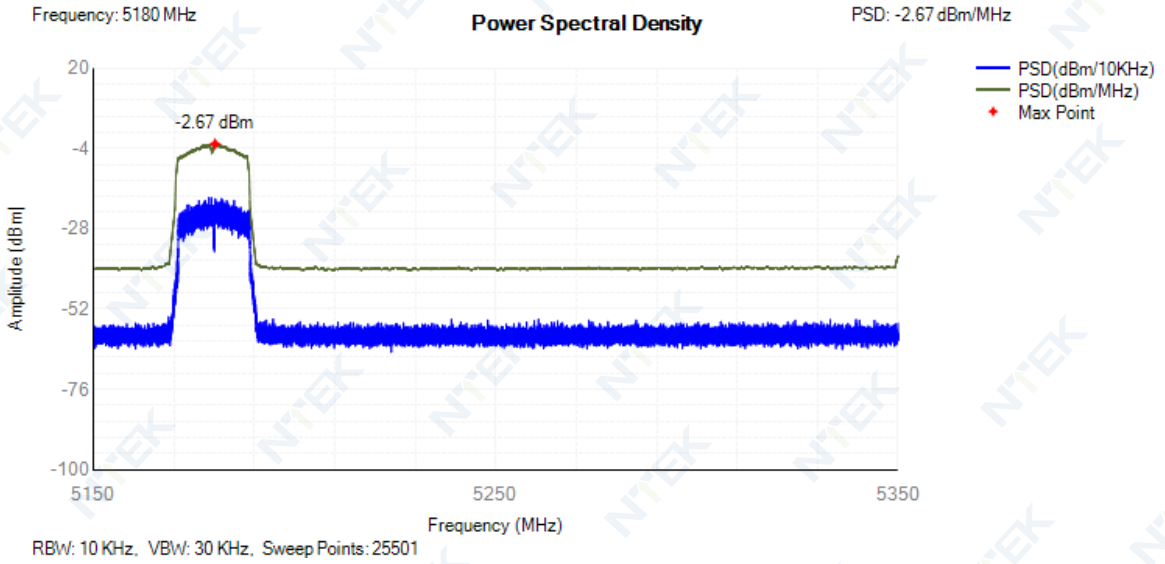
13.3 POWER SPECTRAL DENSITY

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	802.11a	5180	-2.45	10	Pass
NVNT	802.11ac20	5180	-2.67	10	Pass
NVNT	802.11ac40	5190	-5.48	10	Pass
NVNT	802.11ac80	5210	-8.69	10	Pass
NVNT	802.11n(HT20)	5180	-2.38	10	Pass
NVNT	802.11n(HT40)	5190	-5.49	10	Pass

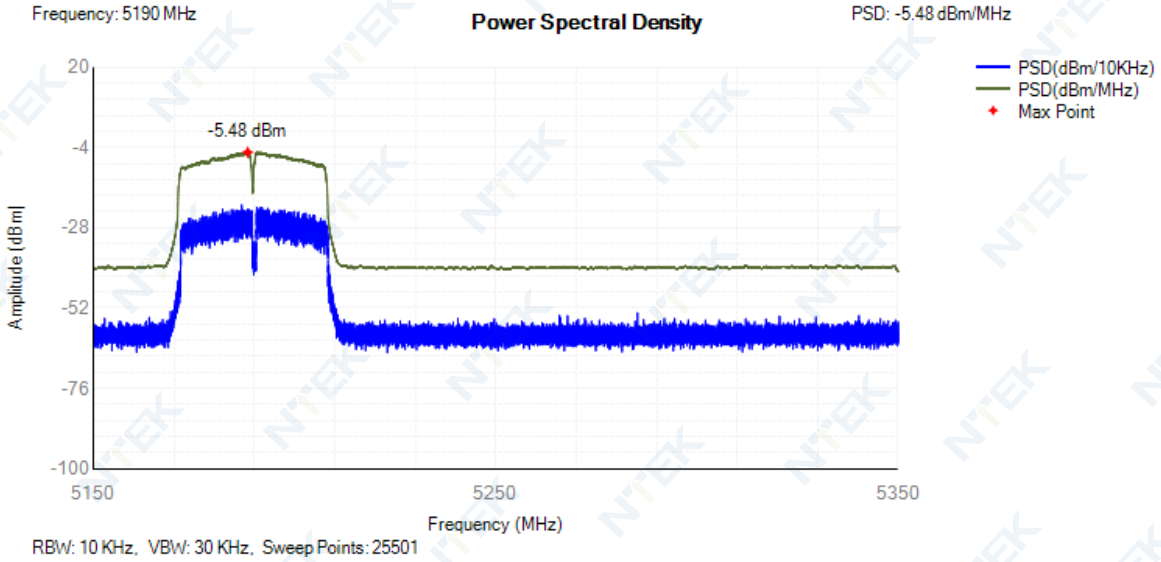
PSD NVNT 802.11a 5180MHz



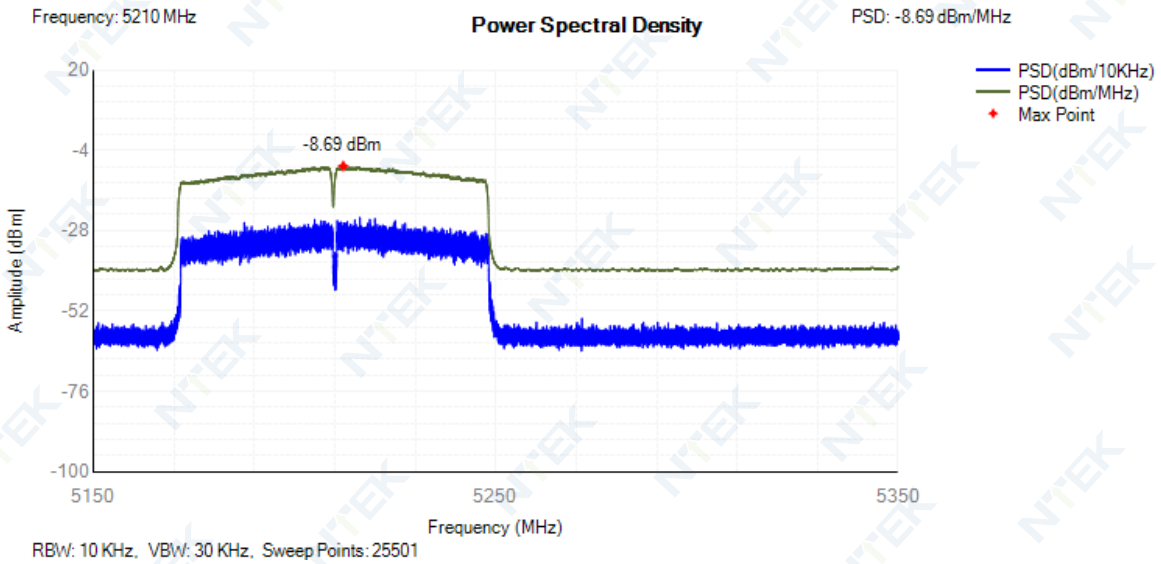
PSD NVNT 802.11ac20 5180MHz



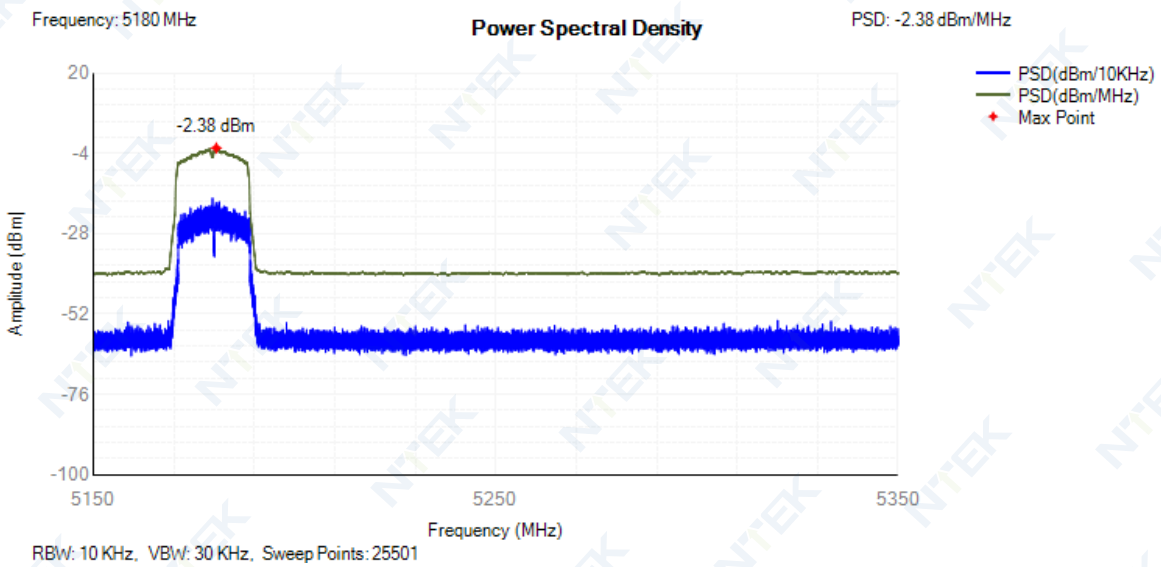
PSD NVNT 802.11ac40 5190MHz



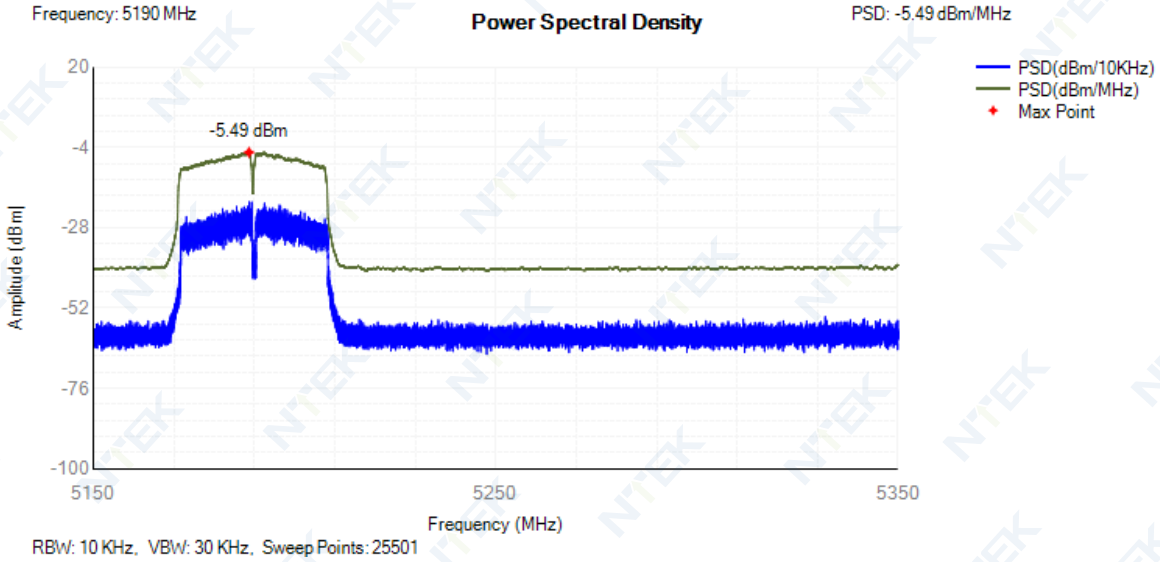
PSD NVNT 802.11ac80 5210MHz



PSD NVNT 802.11n(HT20) 5180MHz



PSD NVNT 802.11n(HT40) 5190MHz

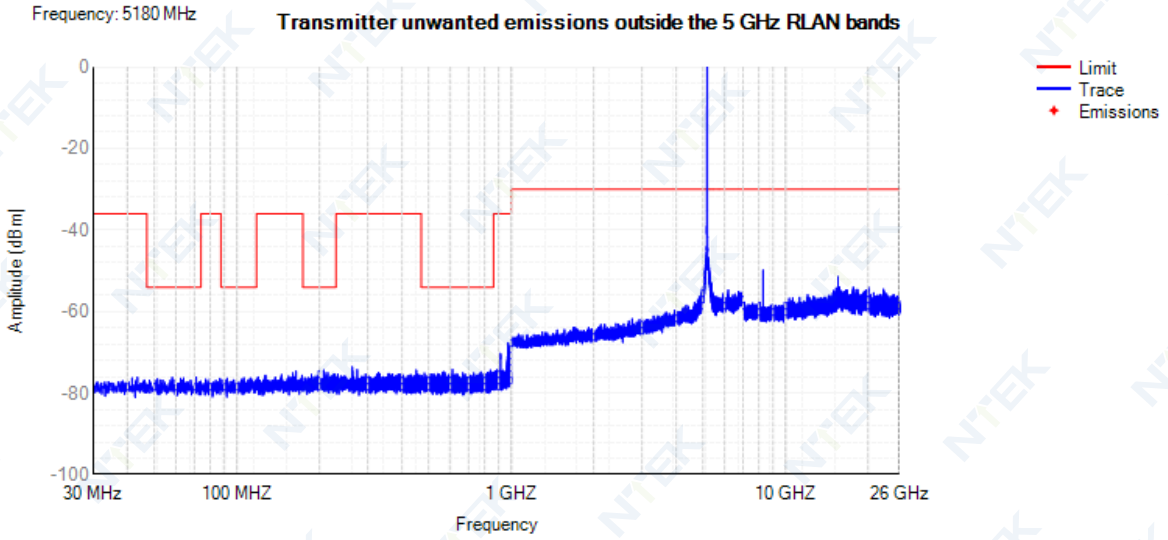


RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 25501

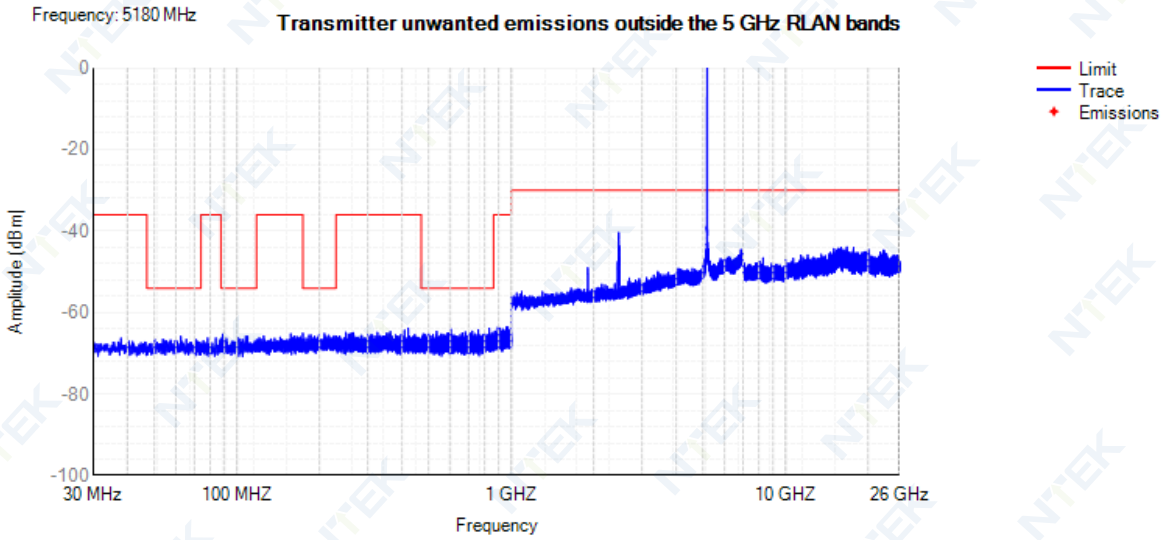
13.4 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	30 MHz -47 MHz	43.4	-76.08	NA	-36	Pass
NVNT	802.11a	5180	47 MHz -74 MHz	71.1	-76.04	NA	-54	Pass
NVNT	802.11a	5180	74 MHz -87.5 MHz	86.7	-76.39	NA	-36	Pass
NVNT	802.11a	5180	87.5 MHz -118 MHz	106.1	-76.23	NA	-54	Pass
NVNT	802.11a	5180	118 MHz -174 MHz	164.4	-74.57	NA	-36	Pass
NVNT	802.11a	5180	174 MHz -230 MHz	207.4	-74.34	NA	-54	Pass
NVNT	802.11a	5180	230 MHz -470 MHz	263.4	-73.52	NA	-36	Pass
NVNT	802.11a	5180	470 MHz -862 MHz	611.2	-74.18	NA	-54	Pass
NVNT	802.11a	5180	862 MHz -1000 MHz	974.9	-67.62	NA	-36	Pass
NVNT	802.11a	5180	1000 MHz -5150 MHz	5135	-47.12	NA	-30	Pass
NVNT	802.11a	5180	5350 MHz -5470 MHz	5394	-53	NA	-30	Pass
NVNT	802.11a	5180	5725 MHz -26000 MHz	8288	-49.78	NA	-30	Pass
NVNT	802.11ac20	5180	30 MHz -47 MHz	37.8	-66.26	NA	-36	Pass
NVNT	802.11ac20	5180	47 MHz -74 MHz	62.5	-65.79	NA	-54	Pass
NVNT	802.11ac20	5180	74 MHz -87.5 MHz	78.2	-66.2	NA	-36	Pass
NVNT	802.11ac20	5180	87.5 MHz -118 MHz	88.7	-65.27	NA	-54	Pass
NVNT	802.11ac20	5180	118 MHz -174 MHz	157.2	-65.17	NA	-36	Pass
NVNT	802.11ac20	5180	174 MHz -230 MHz	208.6	-65.11	NA	-54	Pass
NVNT	802.11ac20	5180	230 MHz -470 MHz	421.6	-63.79	NA	-36	Pass
NVNT	802.11ac20	5180	470 MHz -862 MHz	831.7	-63.81	NA	-54	Pass
NVNT	802.11ac20	5180	862 MHz -1000 MHz	973.6	-63.49	NA	-36	Pass
NVNT	802.11ac20	5180	1000 MHz -5150 MHz	2468	-40.37	NA	-30	Pass
NVNT	802.11ac20	5180	5350 MHz -5470 MHz	5385	-48.49	NA	-30	Pass
NVNT	802.11ac20	5180	5725 MHz -26000 MHz	16745	-43.86	NA	-30	Pass
NVNT	802.11ac40	5190	30 MHz -47 MHz	40.7	-66.35	NA	-36	Pass
NVNT	802.11ac40	5190	47 MHz -74 MHz	48.5	-66.56	NA	-54	Pass
NVNT	802.11ac40	5190	74 MHz -87.5 MHz	74.8	-65.65	NA	-36	Pass
NVNT	802.11ac40	5190	87.5 MHz -118 MHz	89.9	-64.78	NA	-54	Pass
NVNT	802.11ac40	5190	118 MHz -174 MHz	148.5	-65.01	NA	-36	Pass
NVNT	802.11ac40	5190	174 MHz -230 MHz	188.9	-64.28	NA	-54	Pass
NVNT	802.11ac40	5190	230 MHz -470 MHz	241.5	-64.1	NA	-36	Pass
NVNT	802.11ac40	5190	470 MHz -862 MHz	622.8	-64.25	NA	-54	Pass
NVNT	802.11ac40	5190	862 MHz -1000 MHz	931.4	-62.51	NA	-36	Pass
NVNT	802.11ac40	5190	1000 MHz -5150 MHz	5141	-45.22	NA	-30	Pass
NVNT	802.11ac40	5190	5350 MHz -5470 MHz	5389	-47.74	NA	-30	Pass
NVNT	802.11ac40	5190	5725 MHz -26000 MHz	16718	-42.97	NA	-30	Pass
NVNT	802.11ac80	5210	30 MHz -47 MHz	43.9	-65.75	NA	-36	Pass
NVNT	802.11ac80	5210	47 MHz -74 MHz	63.1	-65.89	NA	-54	Pass
NVNT	802.11ac80	5210	74 MHz -87.5 MHz	86.1	-66	NA	-36	Pass
NVNT	802.11ac80	5210	87.5 MHz -118 MHz	88.5	-66.07	NA	-54	Pass
NVNT	802.11ac80	5210	118 MHz -174 MHz	156.2	-65.02	NA	-36	Pass
NVNT	802.11ac80	5210	174 MHz -230 MHz	210.3	-64.83	NA	-54	Pass
NVNT	802.11ac80	5210	230 MHz -470 MHz	410	-64.29	NA	-36	Pass
NVNT	802.11ac80	5210	470 MHz -862 MHz	492.2	-64.18	NA	-54	Pass
NVNT	802.11ac80	5210	862 MHz -1000 MHz	924.3	-63.68	NA	-36	Pass
NVNT	802.11ac80	5210	1000 MHz -5150 MHz	3453	-35.86	-58.8	-30	Pass
NVNT	802.11ac80	5210	5350 MHz -5470 MHz	5417	-48.23	NA	-30	Pass
NVNT	802.11ac80	5210	5725 MHz -26000 MHz	16716	-43.85	NA	-30	Pass
NVNT	802.11n(HT20)	5180	30 MHz -47 MHz	42.4	-66.35	NA	-36	Pass
NVNT	802.11n(HT20)	5180	47 MHz -74 MHz	69	-66.06	NA	-54	Pass
NVNT	802.11n(HT20)	5180	74 MHz -87.5 MHz	78.5	-66.47	NA	-36	Pass
NVNT	802.11n(HT20)	5180	87.5 MHz -118 MHz	105.9	-65.61	NA	-54	Pass
NVNT	802.11n(HT20)	5180	118 MHz -174 MHz	139.5	-65.46	NA	-36	Pass
NVNT	802.11n(HT20)	5180	174 MHz -230 MHz	224.6	-64.71	NA	-54	Pass
NVNT	802.11n(HT20)	5180	230 MHz -470 MHz	416.2	-64.17	NA	-36	Pass
NVNT	802.11n(HT20)	5180	470 MHz -862 MHz	572.1	-63.86	NA	-54	Pass
NVNT	802.11n(HT20)	5180	862 MHz -1000 MHz	889.7	-62.38	NA	-36	Pass
NVNT	802.11n(HT20)	5180	1000 MHz -5150 MHz	2473	-42.61	NA	-30	Pass
NVNT	802.11n(HT20)	5180	5350 MHz -5470 MHz	5403	-48.24	NA	-30	Pass
NVNT	802.11n(HT20)	5180	5725 MHz -26000 MHz	16682	-43.78	NA	-30	Pass
NVNT	802.11n(HT40)	5190	30 MHz -47 MHz	41.4	-66.52	NA	-36	Pass
NVNT	802.11n(HT40)	5190	47 MHz -74 MHz	65.1	-65.55	NA	-54	Pass
NVNT	802.11n(HT40)	5190	74 MHz -87.5 MHz	79.1	-65.36	NA	-36	Pass
NVNT	802.11n(HT40)	5190	87.5 MHz -118 MHz	111	-65.39	NA	-54	Pass
NVNT	802.11n(HT40)	5190	118 MHz -174 MHz	164	-64.95	NA	-36	Pass
NVNT	802.11n(HT40)	5190	174 MHz -230 MHz	206.8	-64.37	NA	-54	Pass
NVNT	802.11n(HT40)	5190	230 MHz -470 MHz	254.3	-64.71	NA	-36	Pass
NVNT	802.11n(HT40)	5190	470 MHz -862 MHz	798.8	-64.37	NA	-54	Pass
NVNT	802.11n(HT40)	5190	862 MHz -1000 MHz	991.3	-63.33	NA	-36	Pass
NVNT	802.11n(HT40)	5190	1000 MHz -5150 MHz	2474	-43.51	NA	-30	Pass
NVNT	802.11n(HT40)	5190	5350 MHz -5470 MHz	5398	-48.35	NA	-30	Pass
NVNT	802.11n(HT40)	5190	5725 MHz -26000 MHz	16739	-43.56	NA	-30	Pass

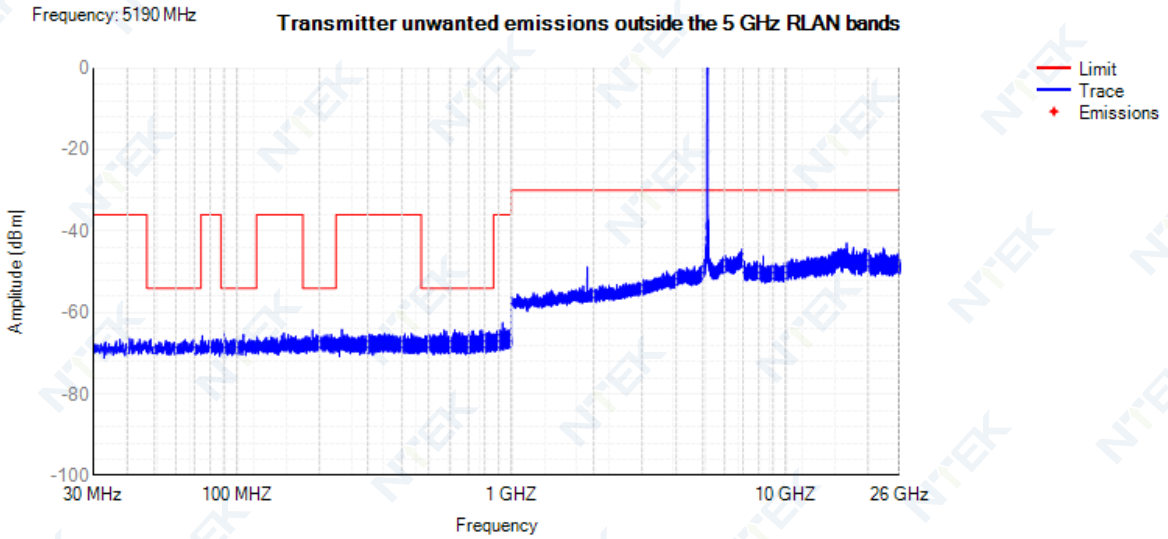
Tx. Spurious NVNT 802.11a 5180MHz



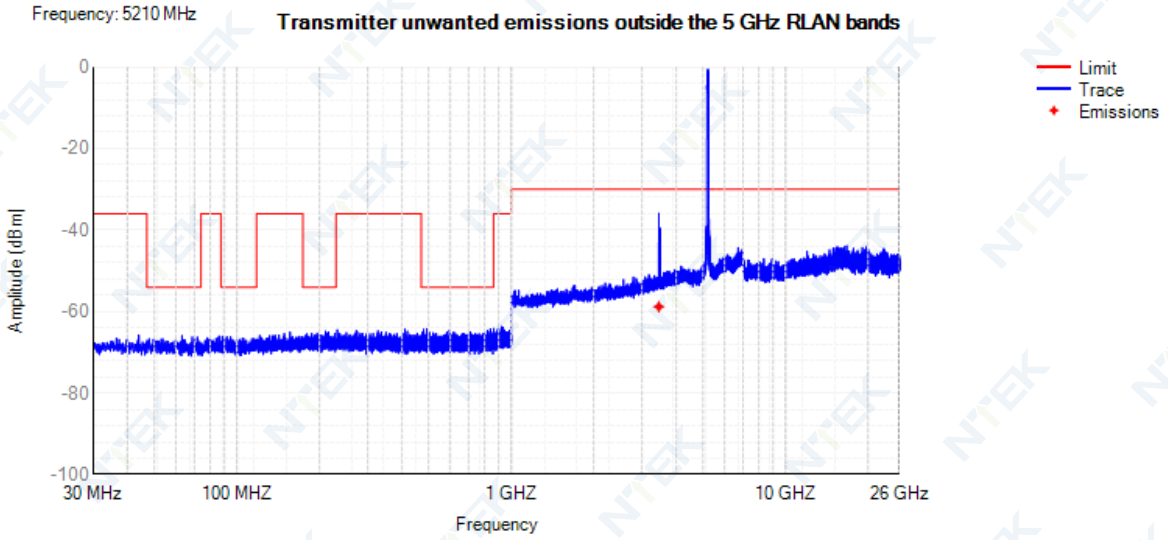
Tx. Spurious NVNT 802.11ac20 5180MHz



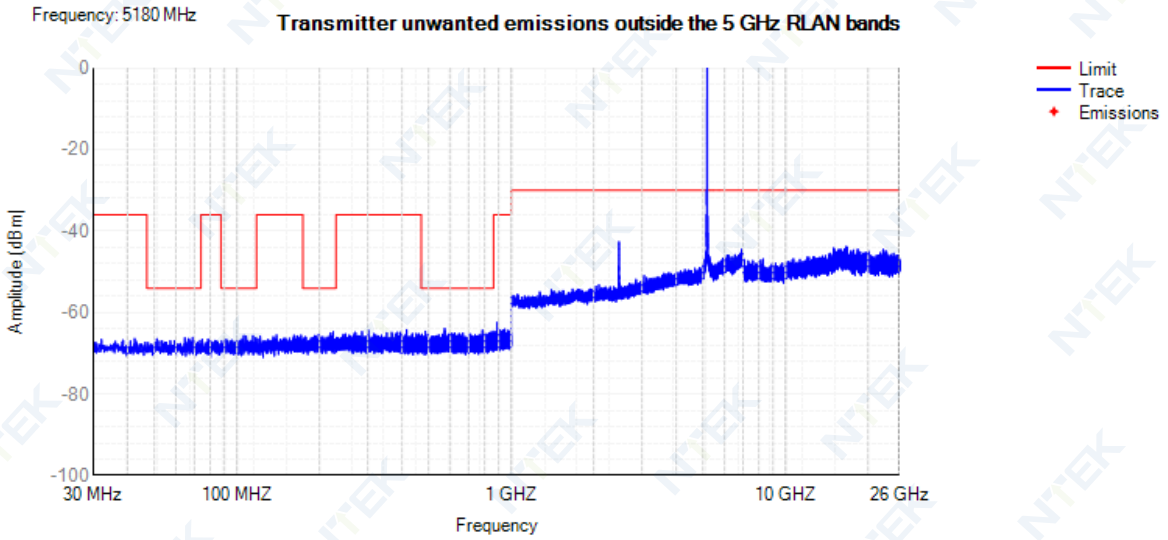
Tx. Spurious NVNT 802.11ac40 5190MHz



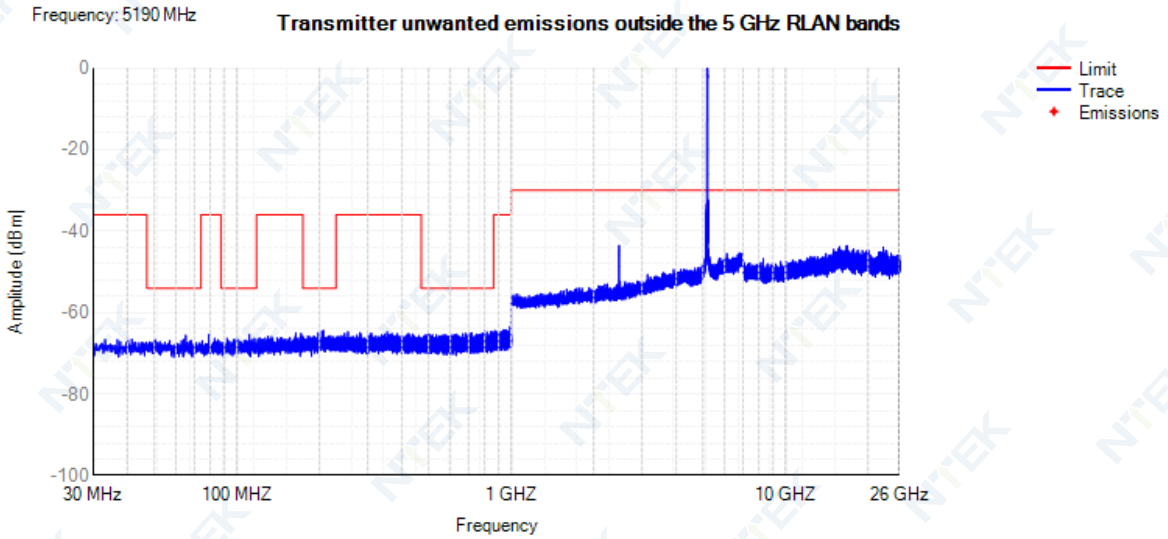
Tx. Spurious NVNT 802.11ac80 5210MHz



Tx. Spurious NVNT 802.11n(HT20) 5180MHz



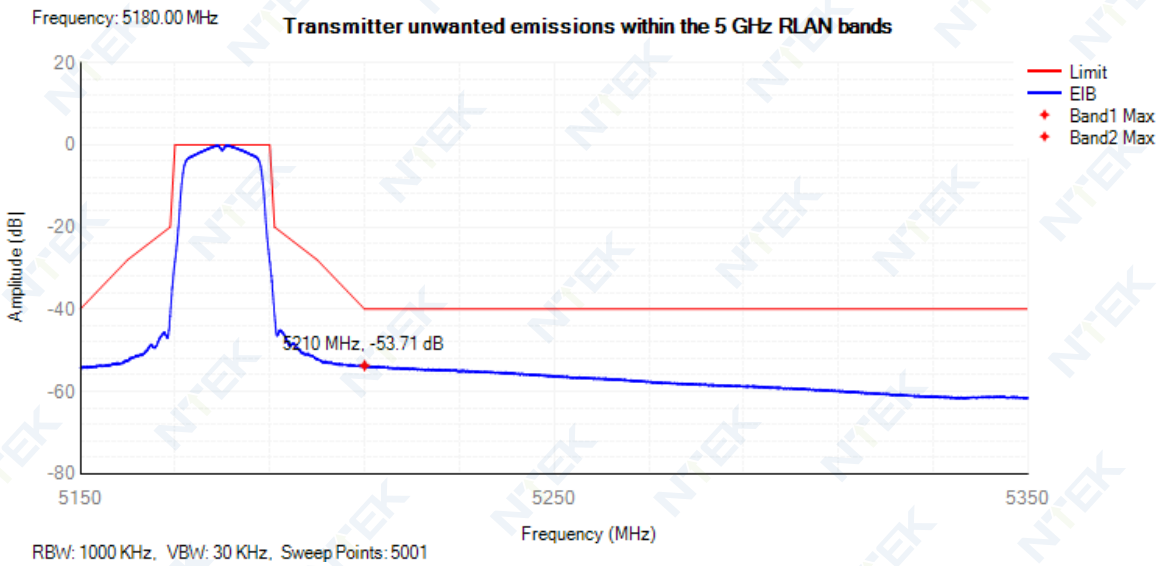
Tx. Spurious NVNT 802.11n(HT40) 5190MHz



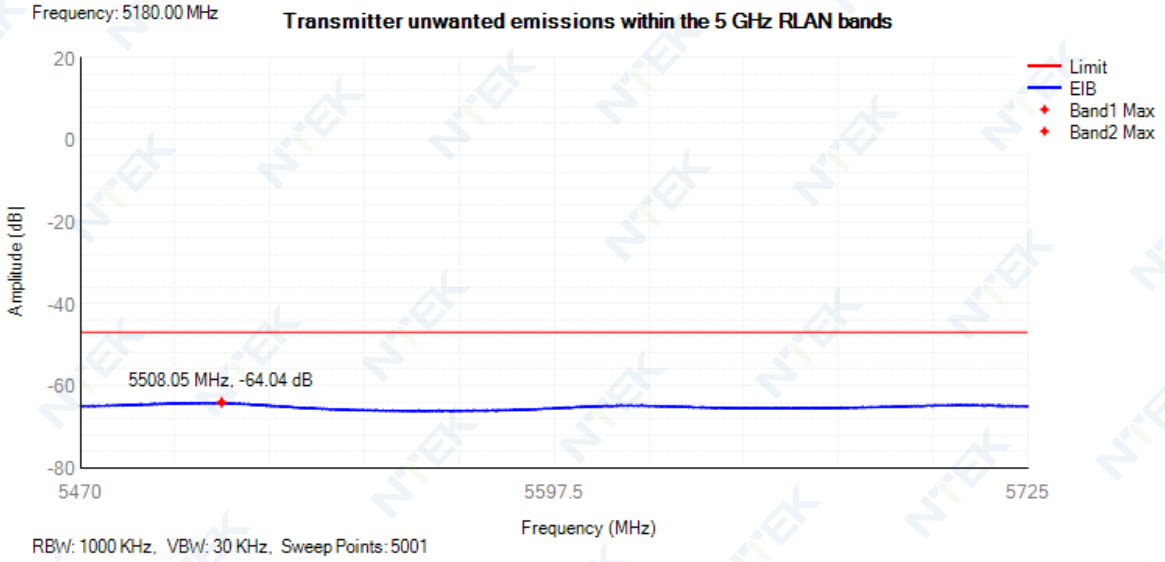
13.5 TRANSMITTER UNWANTED EMISSIONS WITHIN THE 5 GHZ RLAN BANDS

Condition	Mode	Frequency (MHz)	Sub Band	Worst EIB Frequency (MHz)	Level (dB)	Limit (dB)	Verdict
NVNT	802.11a	5180	Band1	5210	-53.71	-40	Pass
NVNT	802.11a	5180	Band2	5508.05	-64.04	-47	Pass
NVNT	802.11ac20	5180	Band1	5210	-53.37	-40	Pass
NVNT	802.11ac20	5180	Band2	5506.41	-63.58	-47	Pass
NVNT	802.11ac40	5190	Band1	5250.4	-52.41	-40	Pass
NVNT	802.11ac40	5190	Band2	5712.1	-61.47	-47	Pass
NVNT	802.11ac80	5210	Band1	5330.08	-54.95	-40	Pass
NVNT	802.11ac80	5210	Band2	5716.38	-58.66	-40	Pass
NVNT	802.11n(HT20)	5180	Band1	5211.8	-53.33	-40	Pass
NVNT	802.11n(HT20)	5180	Band2	5501.11	-63.47	-47	Pass
NVNT	802.11n(HT40)	5190	Band1	5250.4	-52.45	-40	Pass
NVNT	802.11n(HT40)	5190	Band2	5700.83	-61.52	-47	Pass

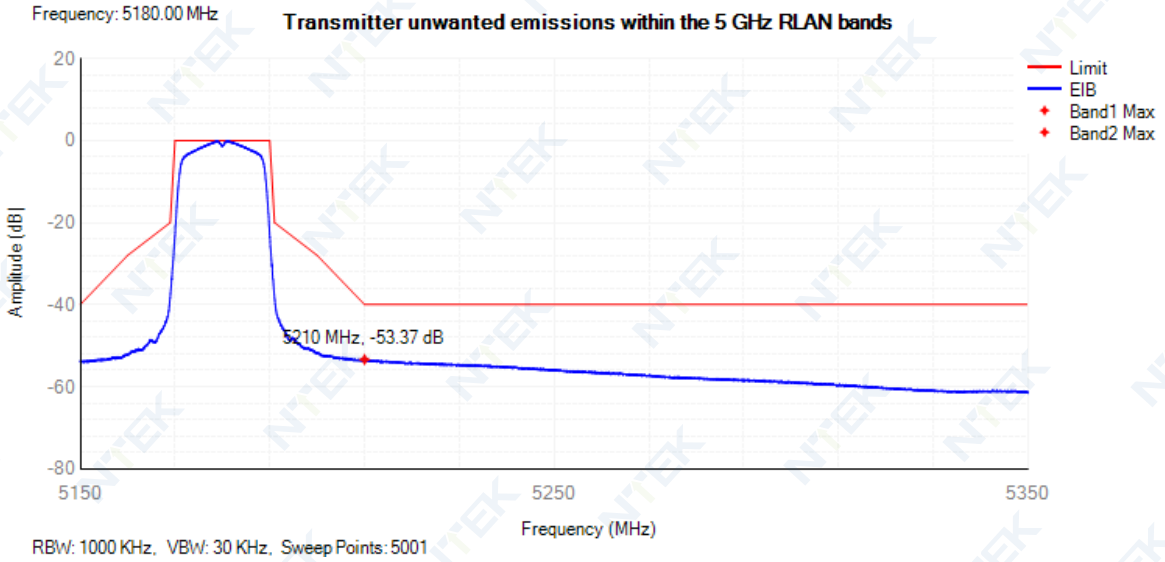
Tx. Emissions EIB NVNT 802.11a 5180MHz Sub Band1



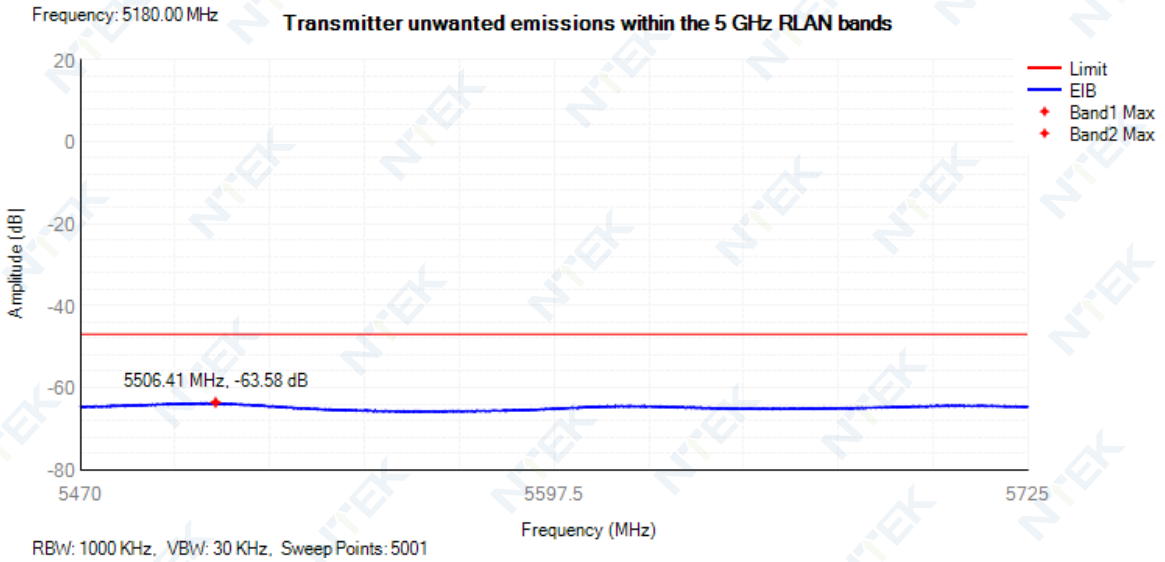
Tx. Emissions EIB NVNT 802.11a 5180MHz Sub Band2



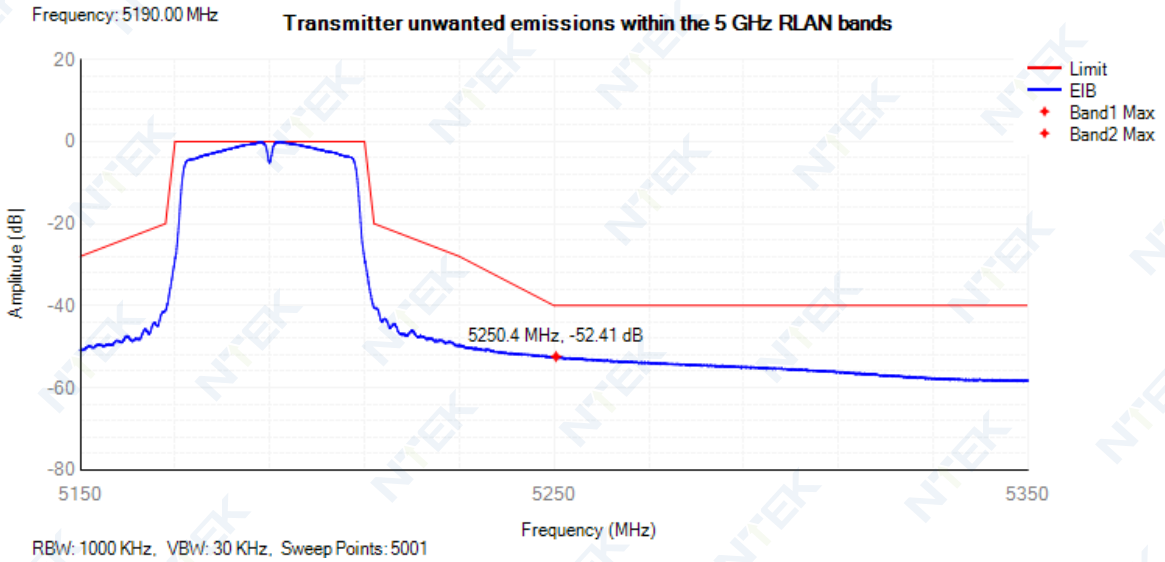
Tx. Emissions EIB NVNT 802.11ac20 5180MHz Sub Band1



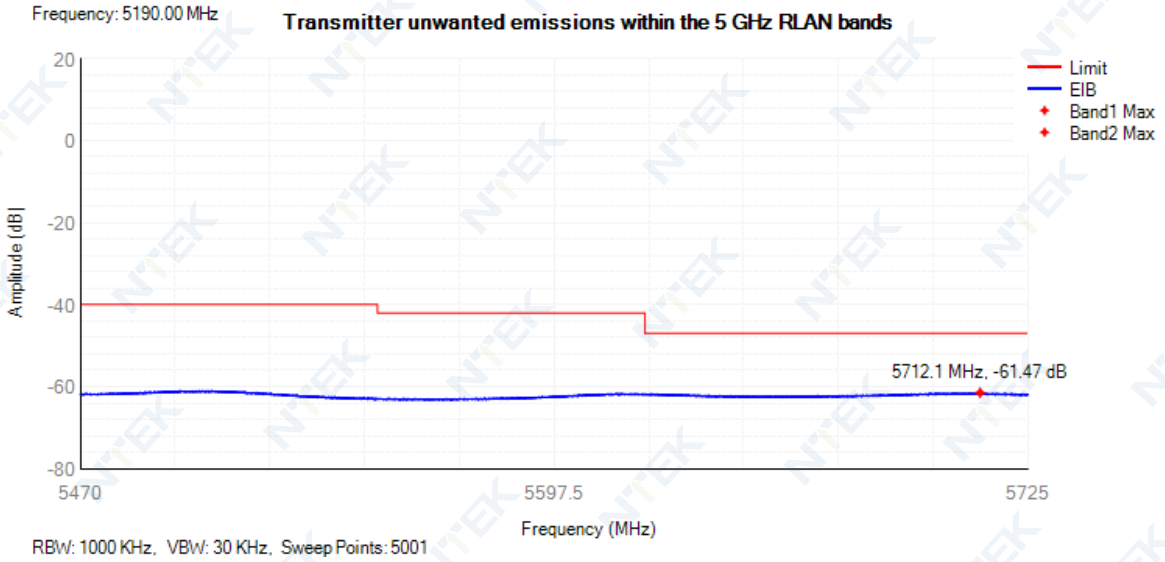
Tx. Emissions EIB NVNT 802.11ac20 5180MHz Sub Band2



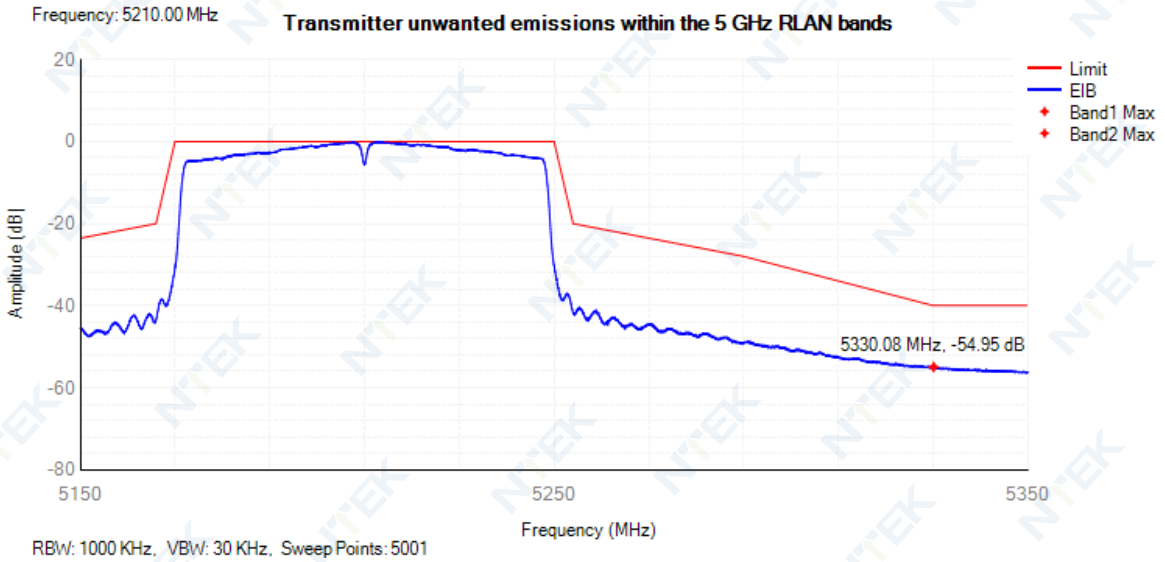
Tx. Emissions EIB NVNT 802.11ac40 5190MHz Sub Band1



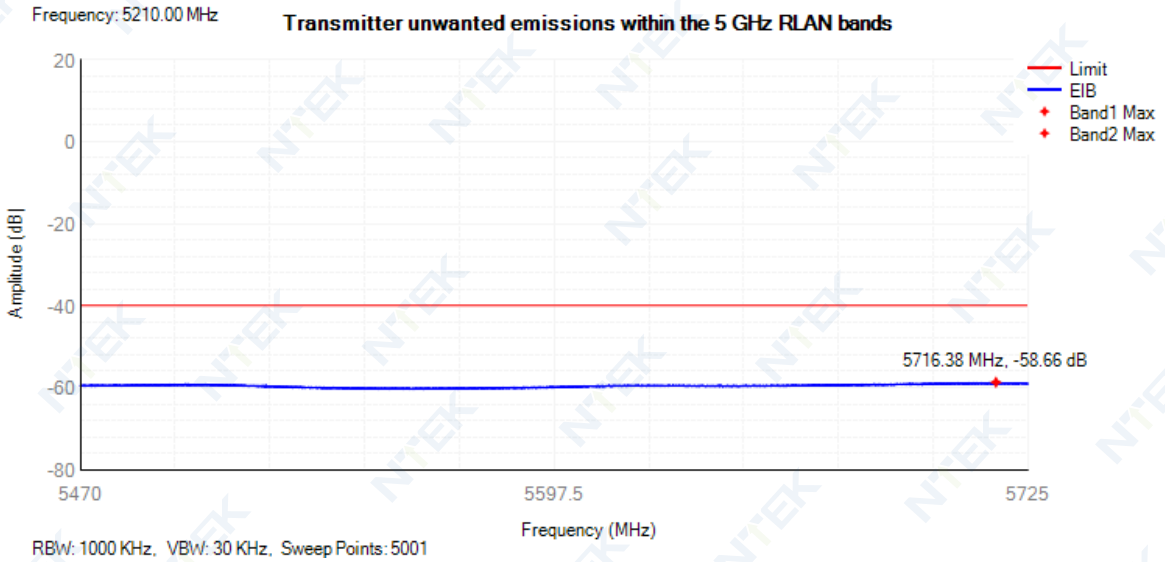
Tx. Emissions EIB NVNT 802.11ac40 5190MHz Sub Band2



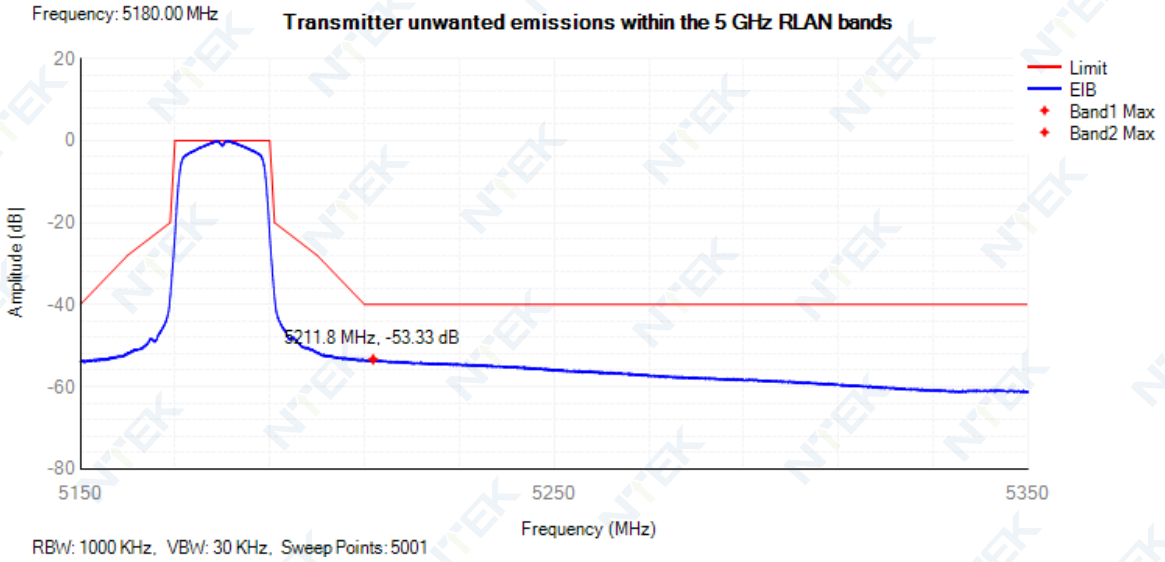
Tx. Emissions EIB NVNT 802.11ac80 5210MHz Sub Band1



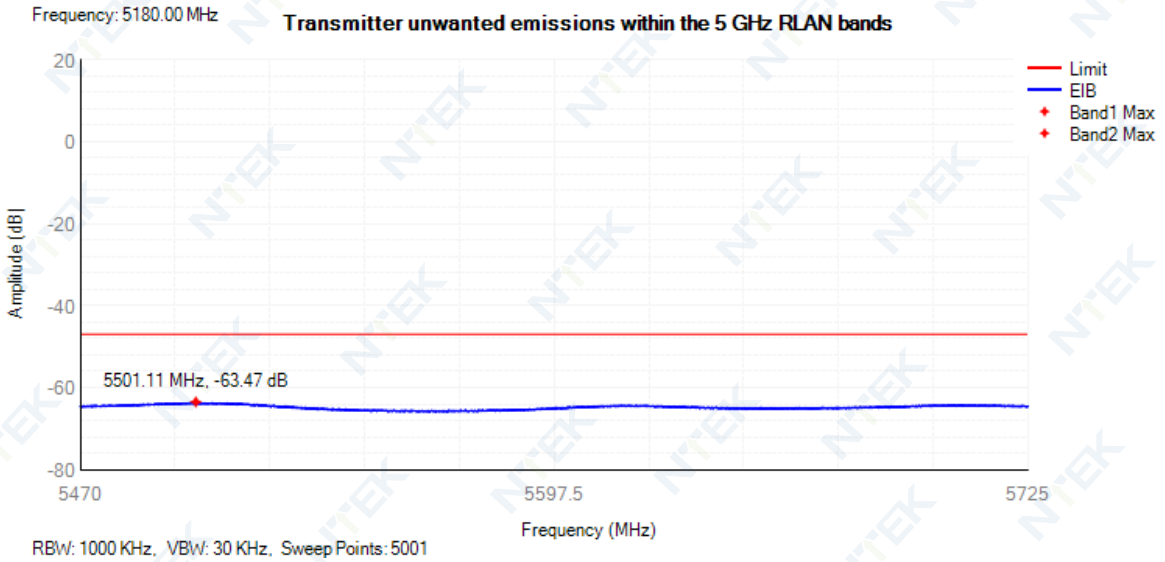
Tx. Emissions EIB NVNT 802.11ac80 5210MHz Sub Band2



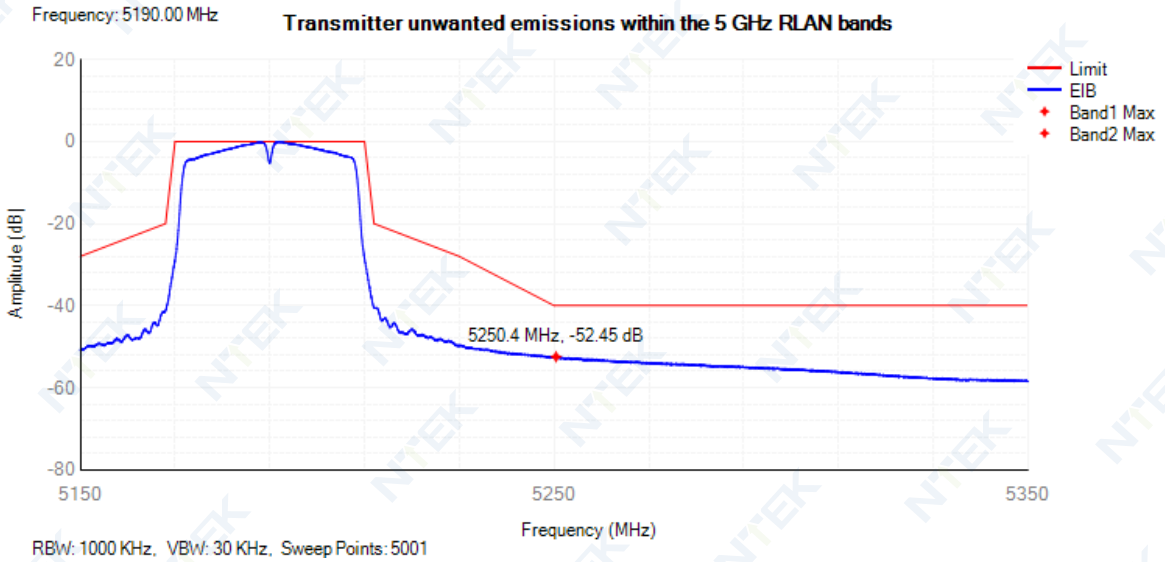
Tx. Emissions EIB NVNT 802.11n(HT20) 5180MHz Sub Band1



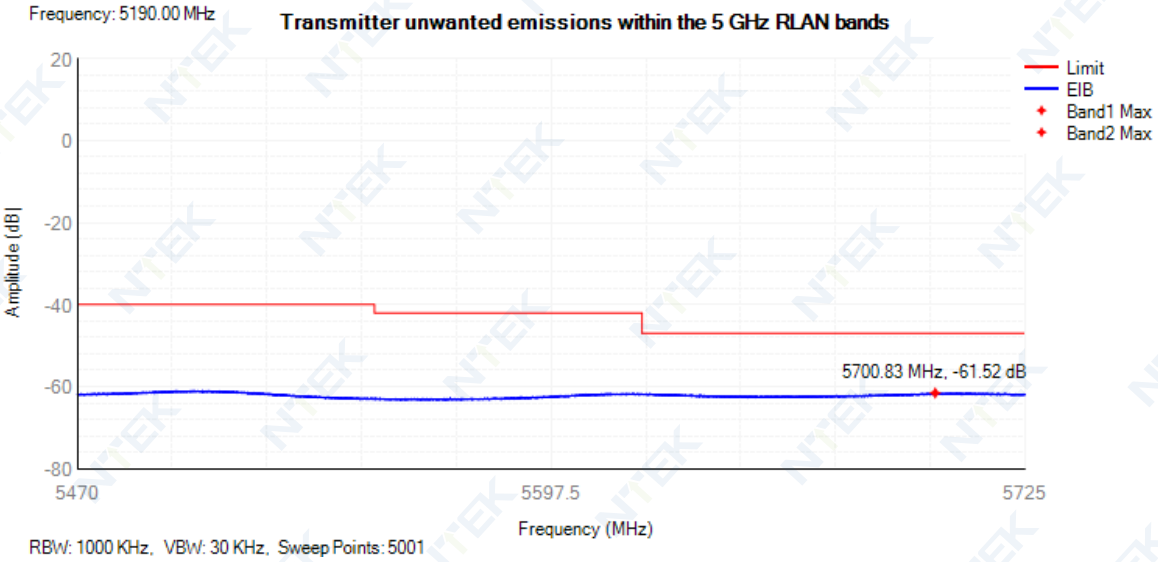
Tx. Emissions EIB NVNT 802.11n(HT20) 5180MHz Sub Band2



Tx. Emissions EIB NVNT 802.11n(HT40) 5190MHz Sub Band1



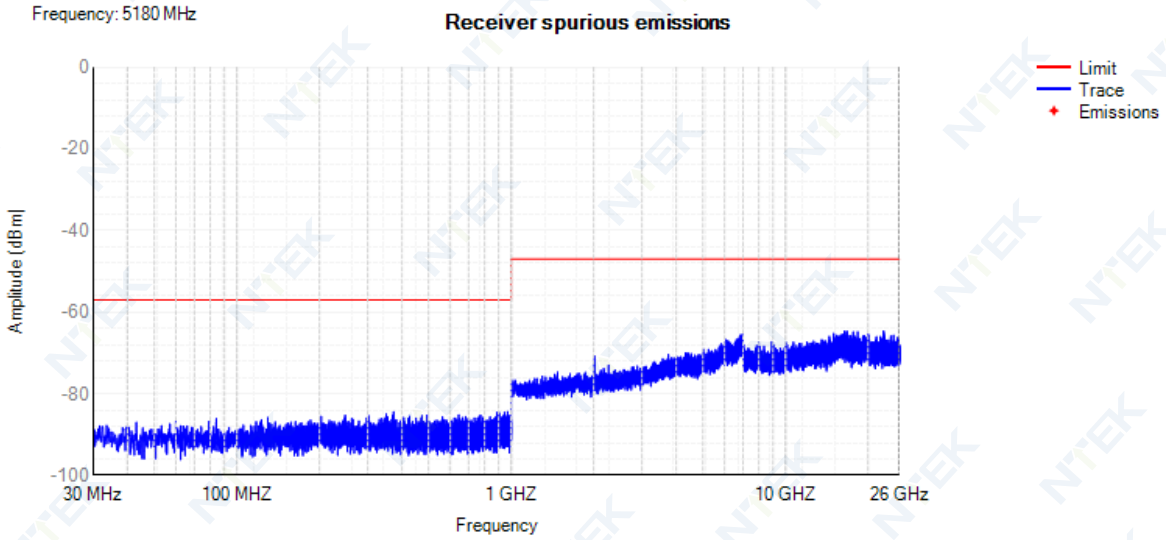
Tx. Emissions EIB NVNT 802.11n(HT40) 5190MHz Sub Band2



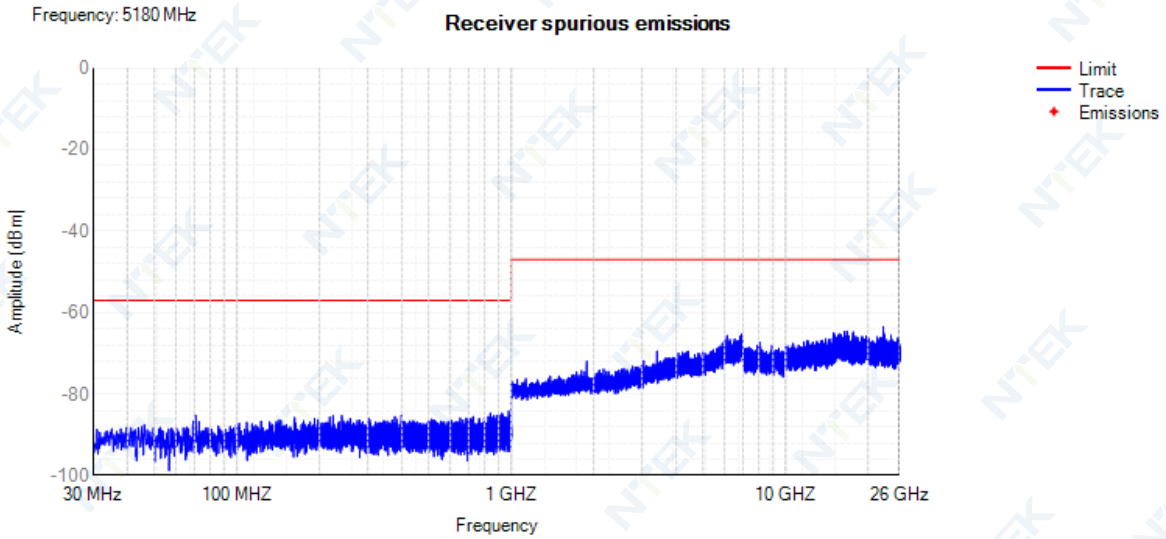
13.6 RECEIVER SPURIOUS EMISSIONS

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	30 MHz -1000 MHz	971	-84.33	NA	-57	Pass
NVNT	802.11a	5180	1000 MHz -26000 MHz	22785	-64.59	NA	-47	Pass
NVNT	802.11ac20	5180	30 MHz -1000 MHz	979.6	-84.15	NA	-57	Pass
NVNT	802.11ac20	5180	1000 MHz -26000 MHz	22704	-63.45	NA	-47	Pass
NVNT	802.11ac40	5190	30 MHz -1000 MHz	482.8	-83.84	NA	-57	Pass
NVNT	802.11ac40	5190	1000 MHz -26000 MHz	17674	-64.05	NA	-47	Pass
NVNT	802.11ac80	5210	30 MHz -1000 MHz	939.1	-83.52	NA	-57	Pass
NVNT	802.11ac80	5210	1000 MHz -26000 MHz	5182	-60.86	NA	-47	Pass
NVNT	802.11n(HT20)	5180	30 MHz -1000 MHz	889.7	-74.88	NA	-57	Pass
NVNT	802.11n(HT20)	5180	1000 MHz -26000 MHz	2467	-61.65	NA	-47	Pass
NVNT	802.11n(HT40)	5190	30 MHz -1000 MHz	850.6	-84.17	NA	-57	Pass
NVNT	802.11n(HT40)	5190	1000 MHz -26000 MHz	22787	-64.04	NA	-47	Pass

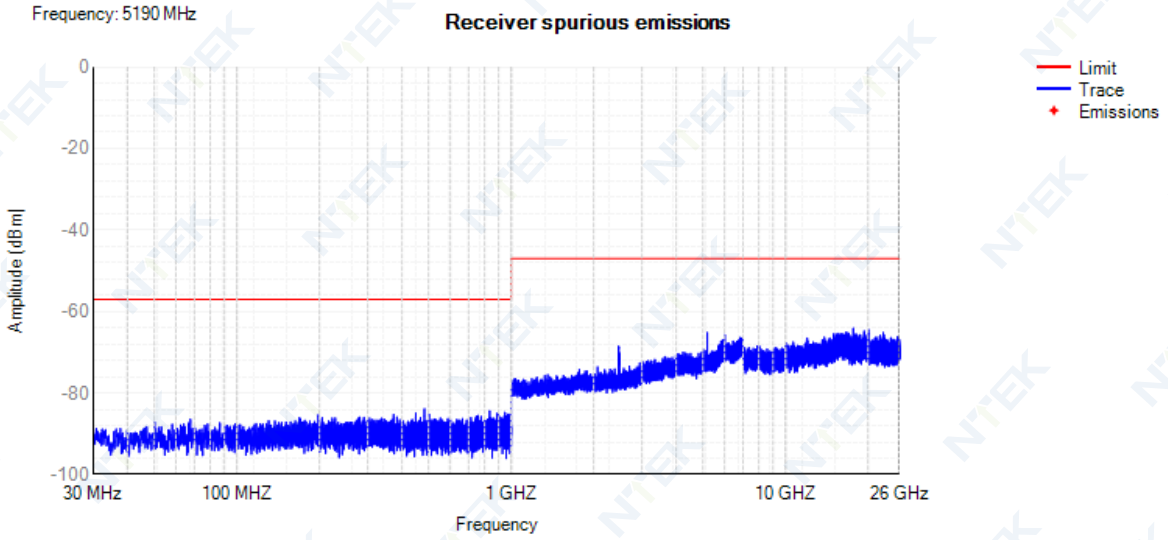
Rx. Spurious NVNT 802.11a 5180MHz



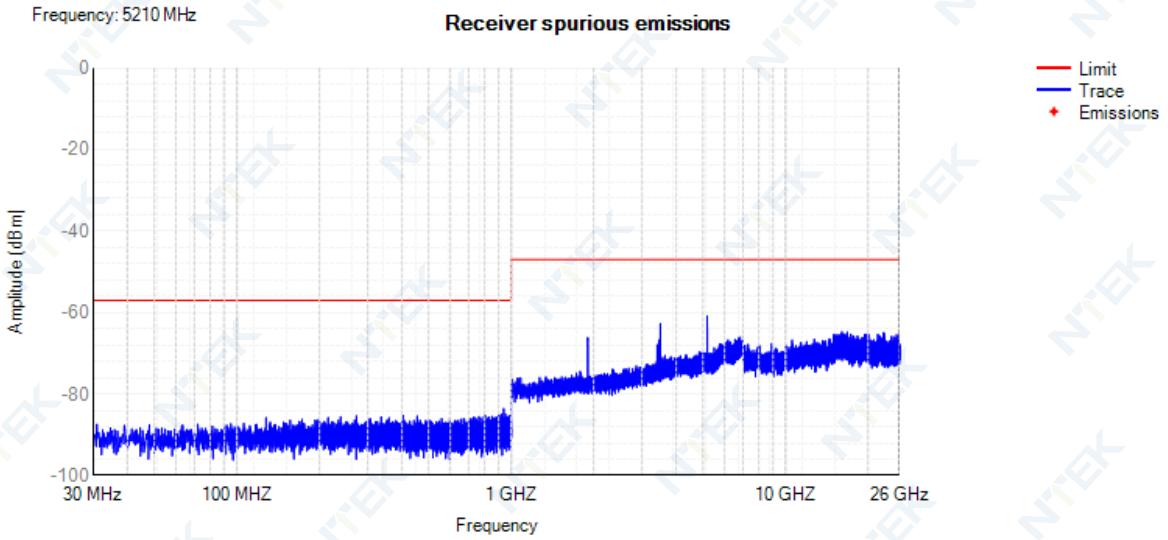
Rx. Spurious NVNT 802.11ac20 5180MHz



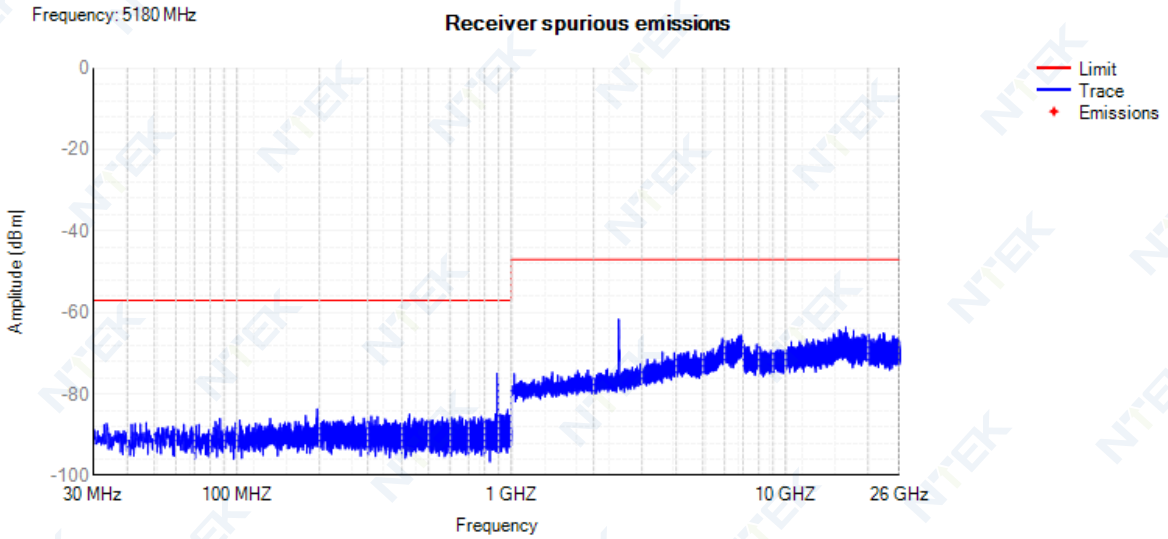
Rx. Spurious NVNT 802.11ac40 5190MHz



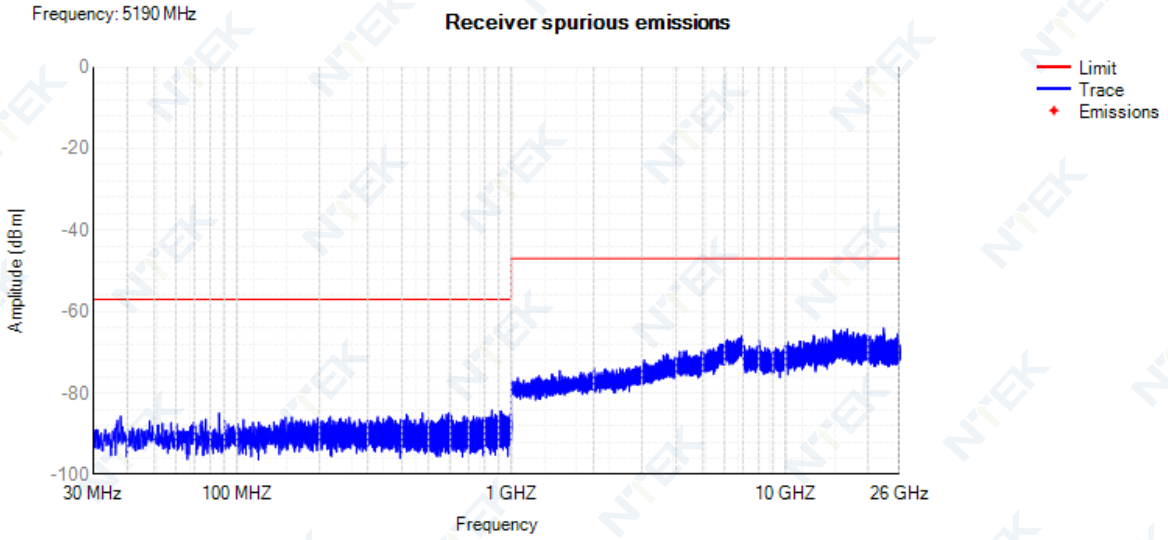
Rx. Spurious NVNT 802.11ac80 5210MHz



Rx. Spurious NVNT 802.11n(HT20) 5180MHz



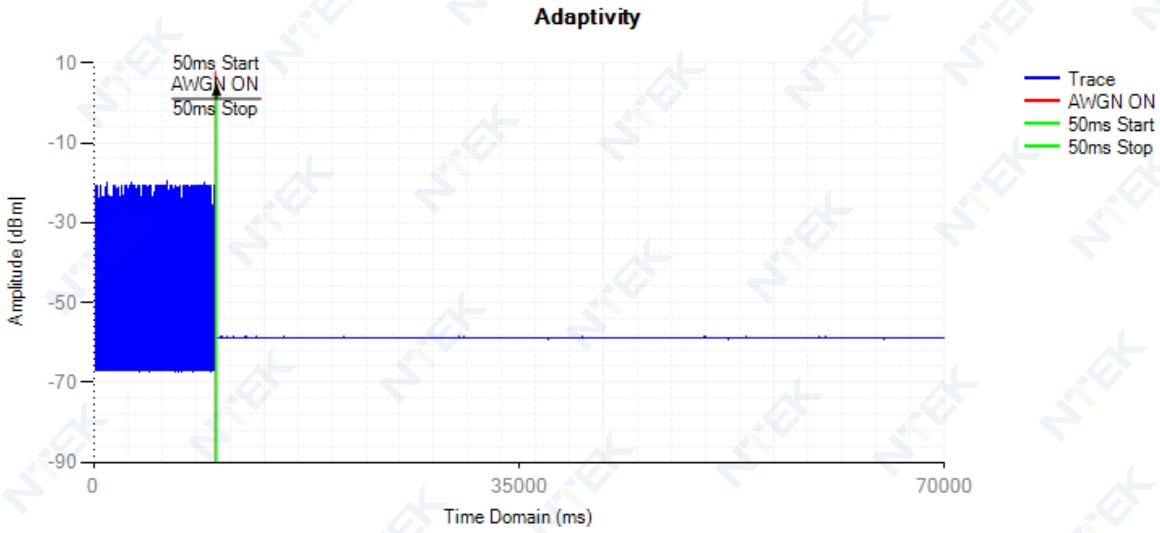
Rx. Spurious NVNT 802.11n(HT40) 5190MHz



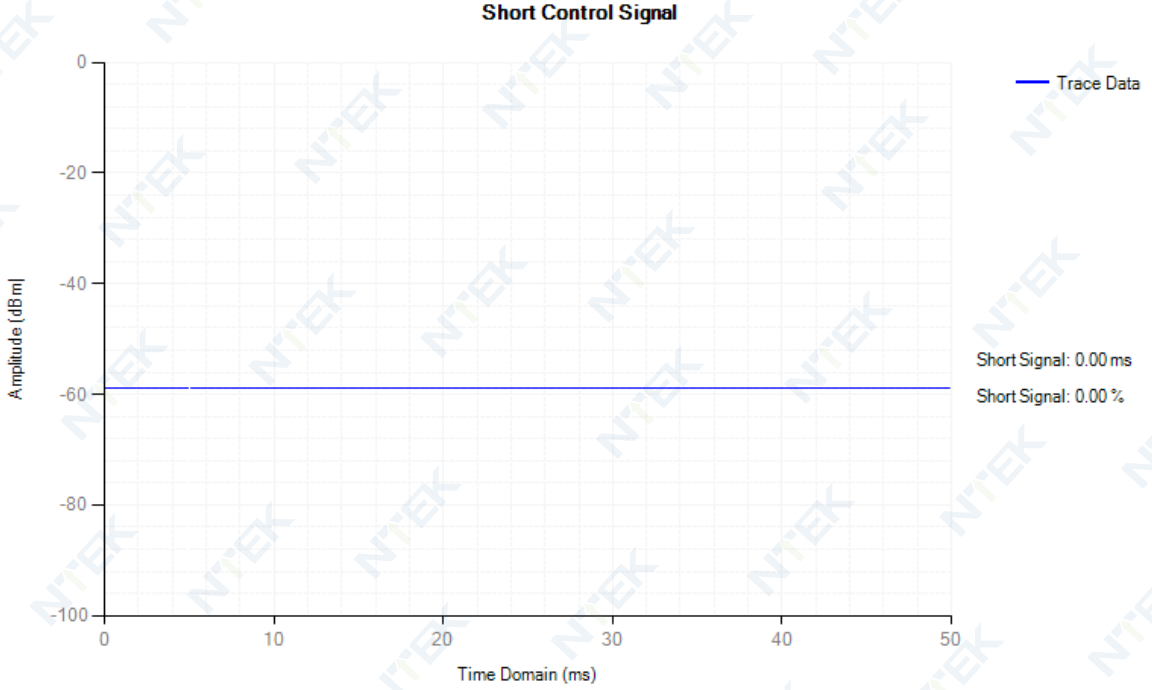
13.7 ADAPTIVITY

Condition	Mode	Frequency (MHz)	Interfer Type	Interfer Level (dBm/MHz)	Short Control (ms)	Limit (ms)	Short Control (n)	Limit (n)	Verdict
NVNT	802.11a	5180	AWGN	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11a	5180	LTE	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11a	5180	OFDM	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5210	AWGN	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5210	LTE	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5210	OFDM	-75	0.47	<=2.5	1	<=50	Pass
NVNT	802.11ac80	5290	AWGN	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5290	LTE	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5290	OFDM	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5530	AWGN	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5530	LTE	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11ac80	5530	OFDM	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11n(HT40)	5190	AWGN	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11n(HT40)	5190	LTE	-75	0	<=2.5	0	<=50	Pass
NVNT	802.11n(HT40)	5190	OFDM	-75	0	<=2.5	0	<=50	Pass

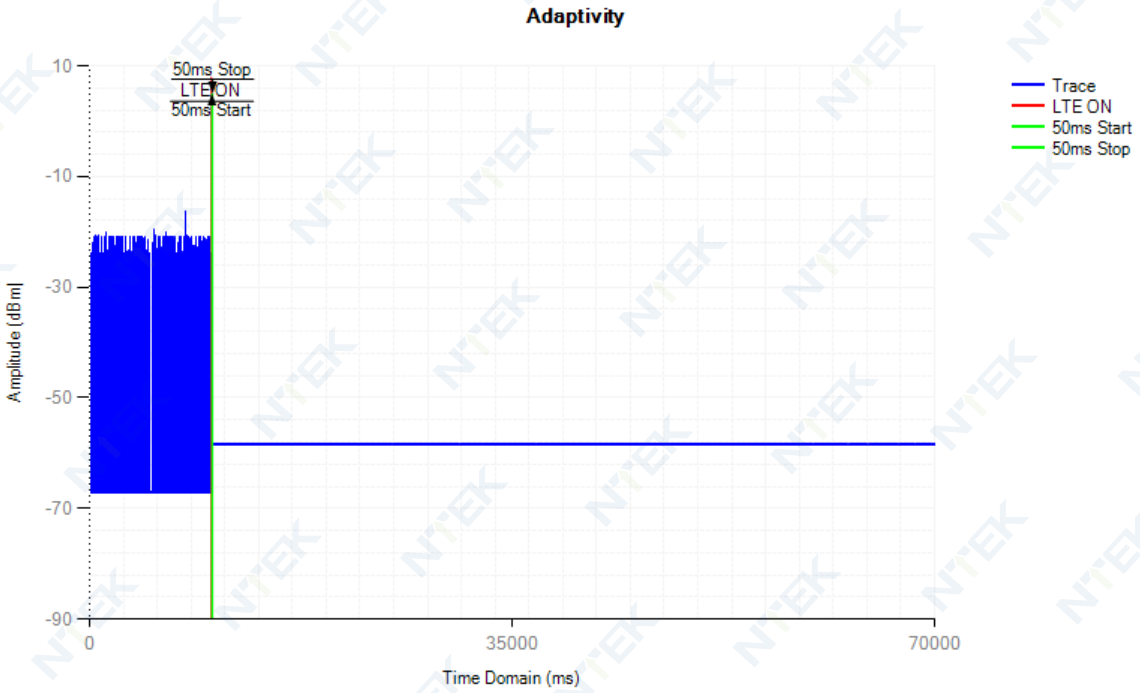
Adaptivity NVNT 802.11a 5180MHz AWGN



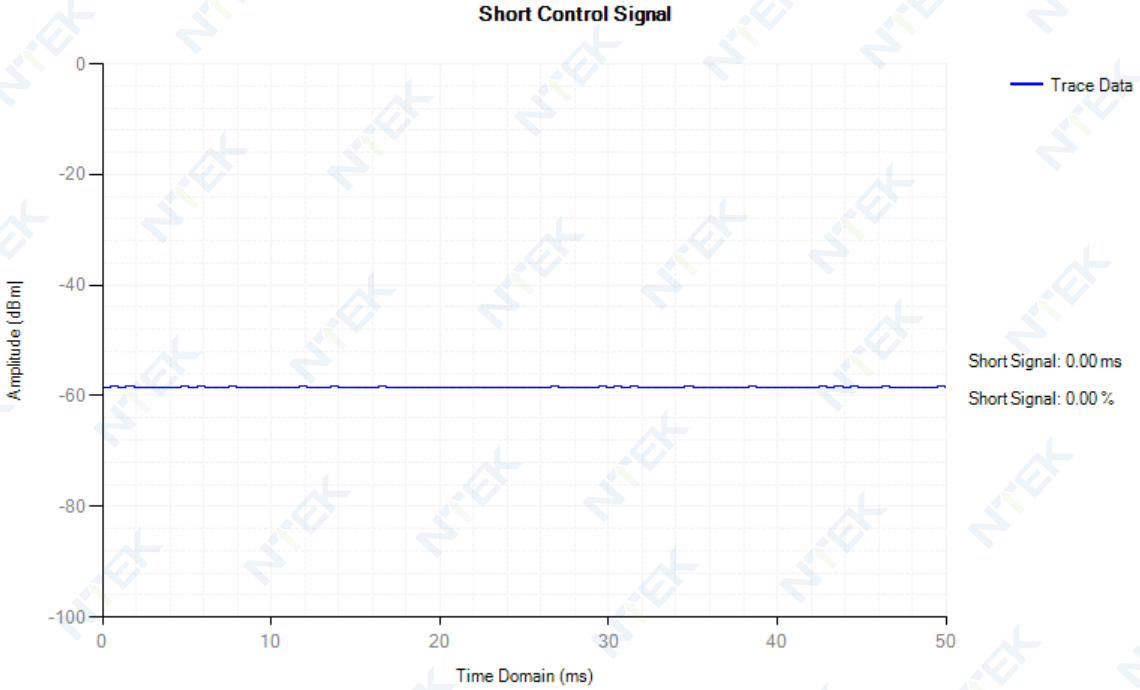
Control Signal NVNT 802.11a 5180MHz AWGN



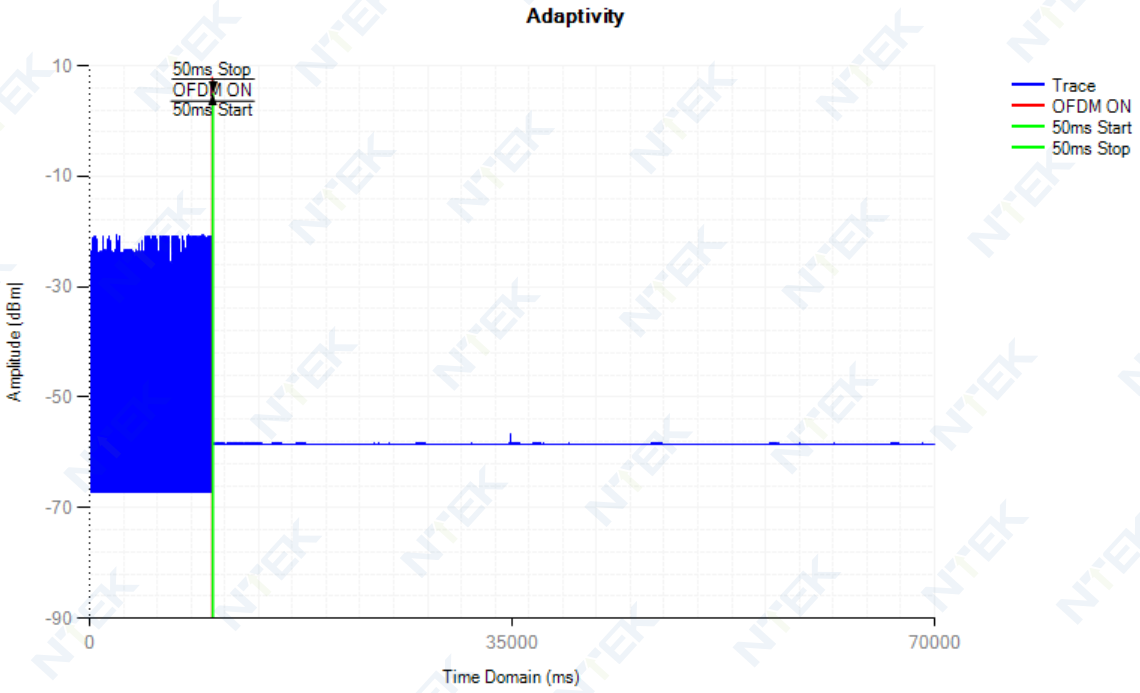
Adaptivity NVNT 802.11a 5180MHz LTE



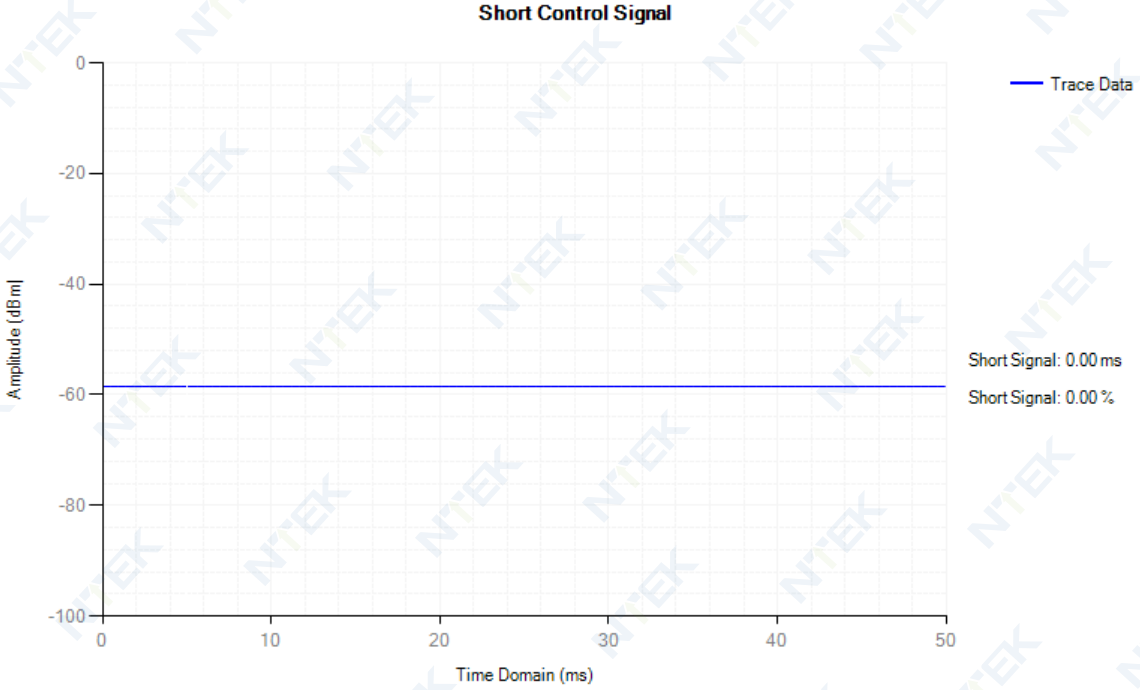
Control Signal NVNT 802.11a 5180MHz LTE



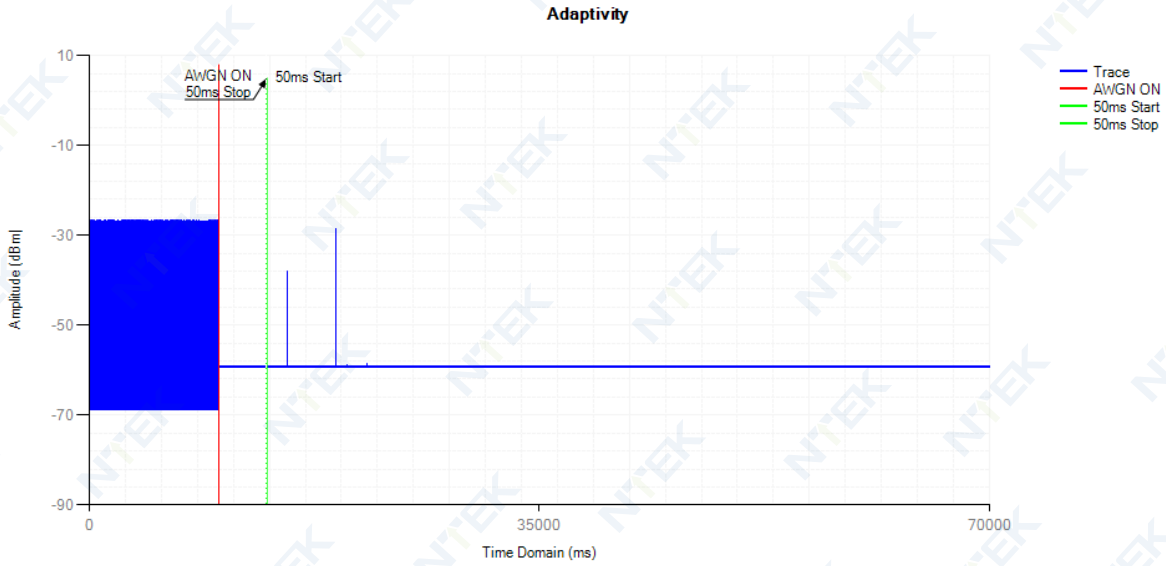
Adaptivity NVNT 802.11a 5180MHz OFDM



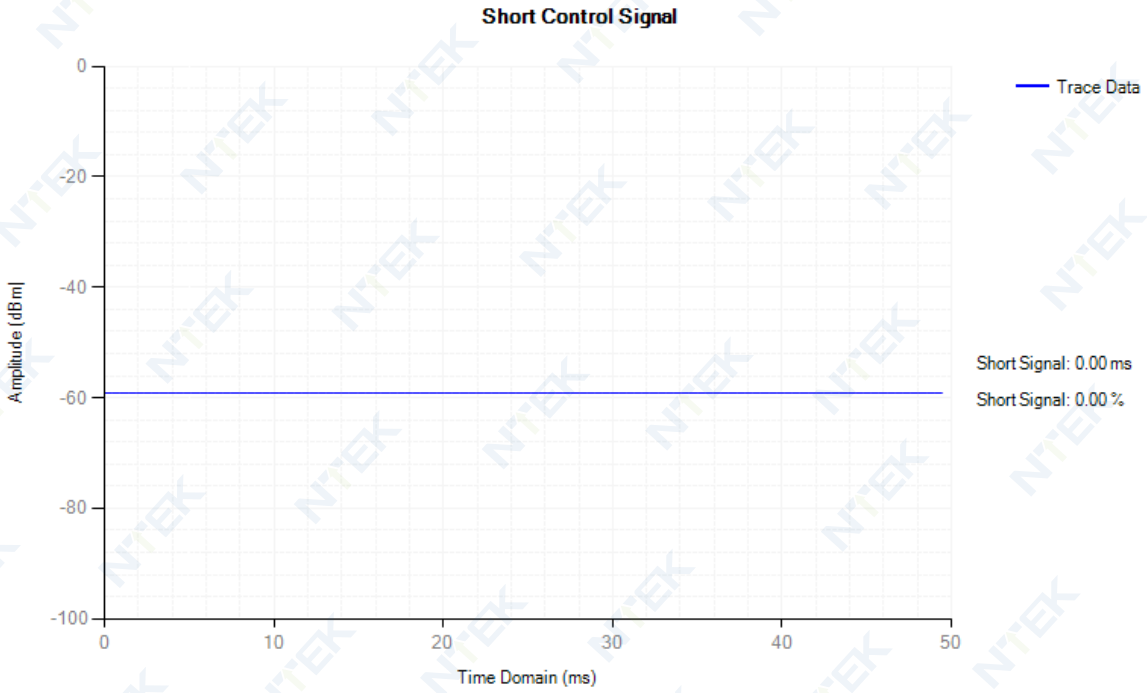
Control Signal NVNT 802.11a 5180MHz OFDM



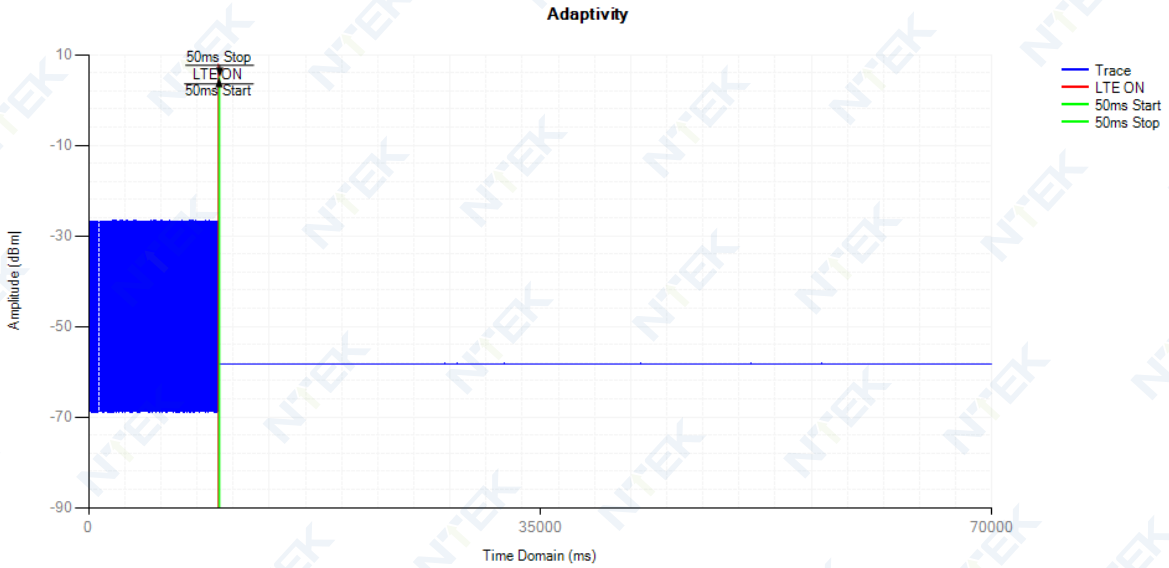
Adaptivity NVNT 802.11ac80 5210MHz AWGN



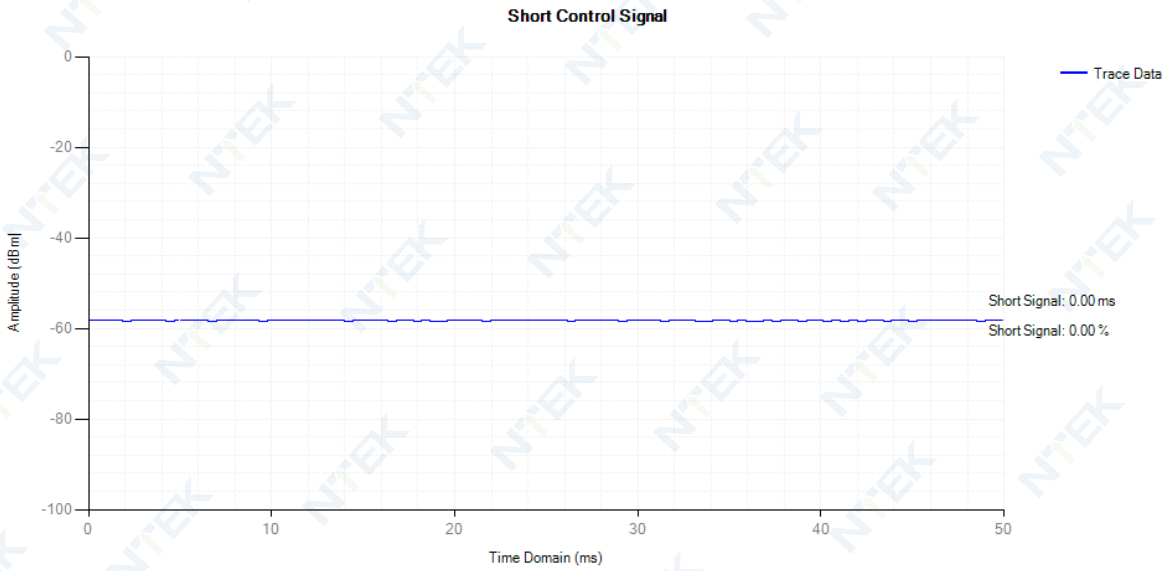
Control Signal NVNT 802.11ac80 5210MHz AWGN



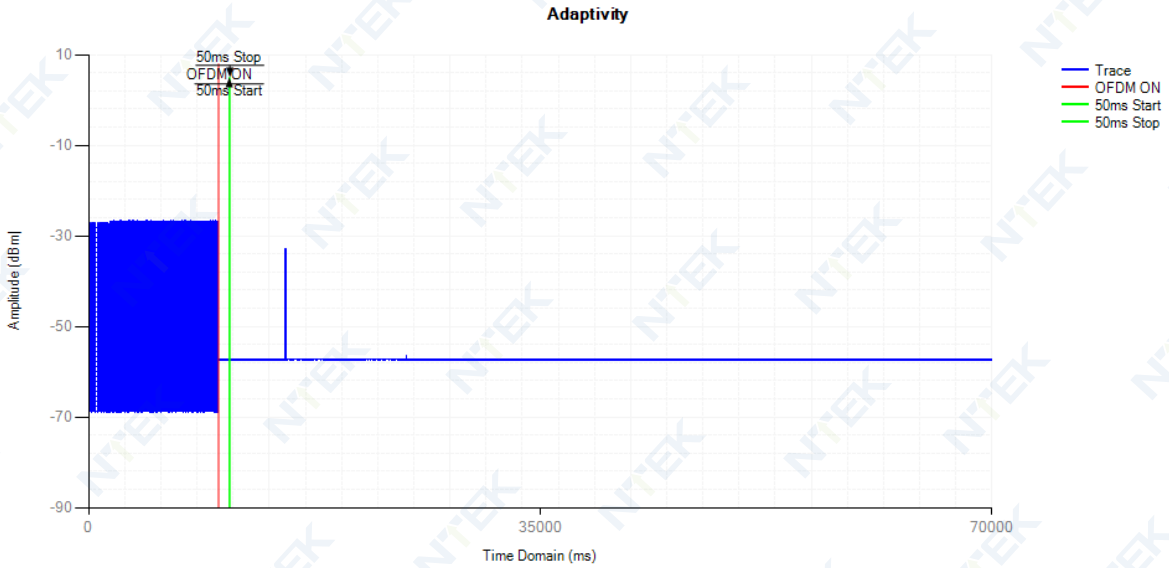
Adaptivity NVNT 802.11ac80 5210MHz LTE



Control Signal NVNT 802.11ac80 5210MHz LTE

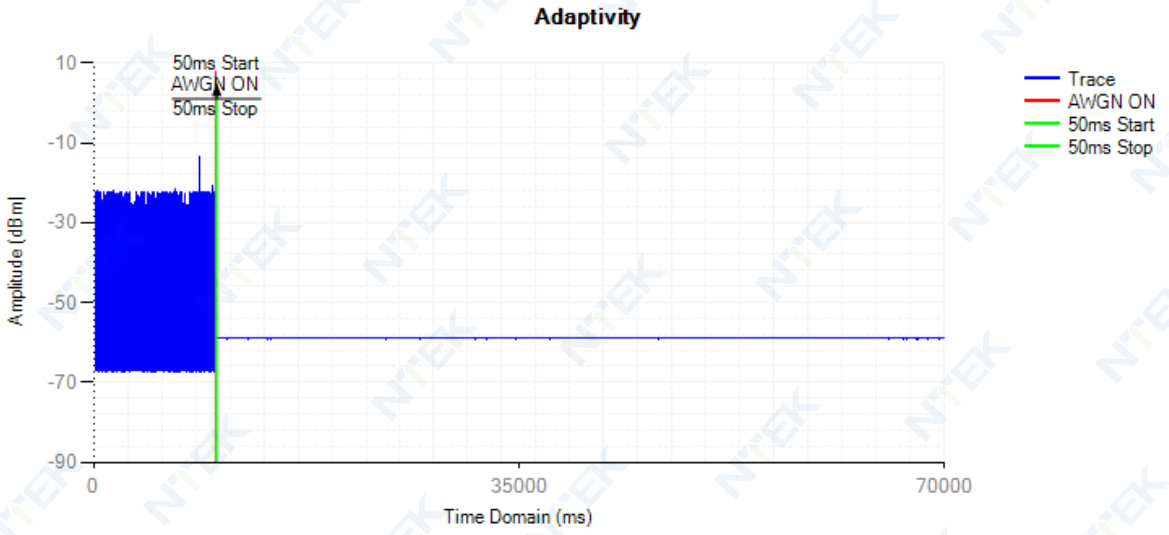


Adaptivity NVNT 802.11ac80 5210MHz OFDM

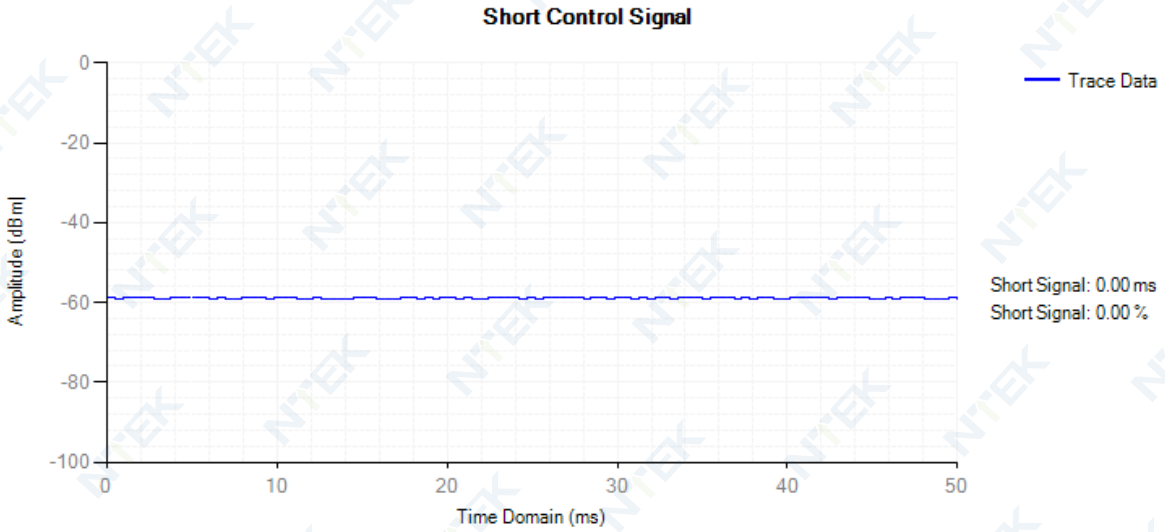


Control Signal NVNT 802.11ac80 5210MHz OFDM

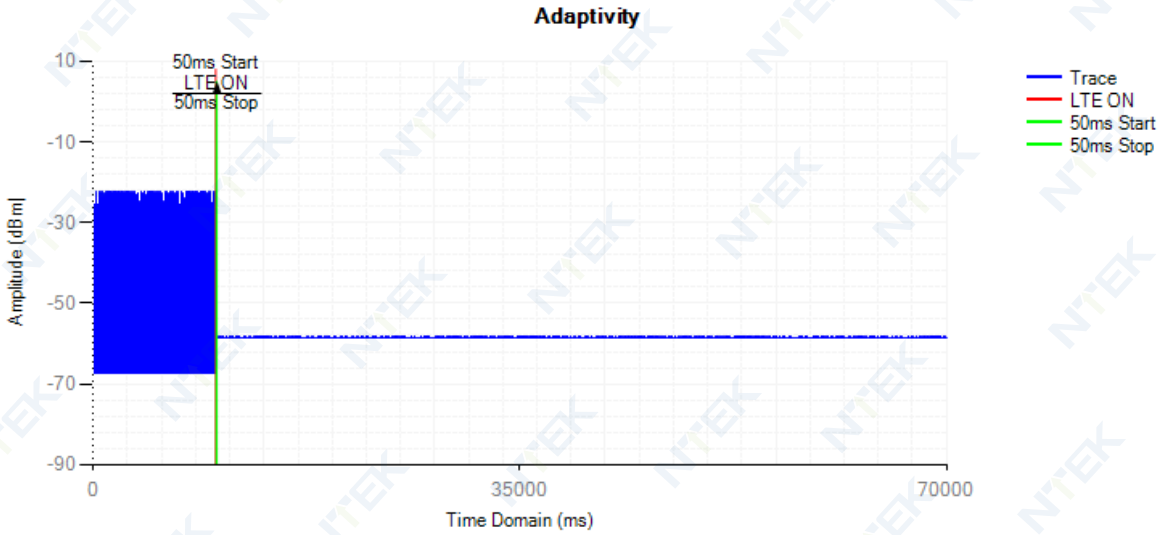
Adaptivity NVNT 802.11ac80 5290MHz AWGN



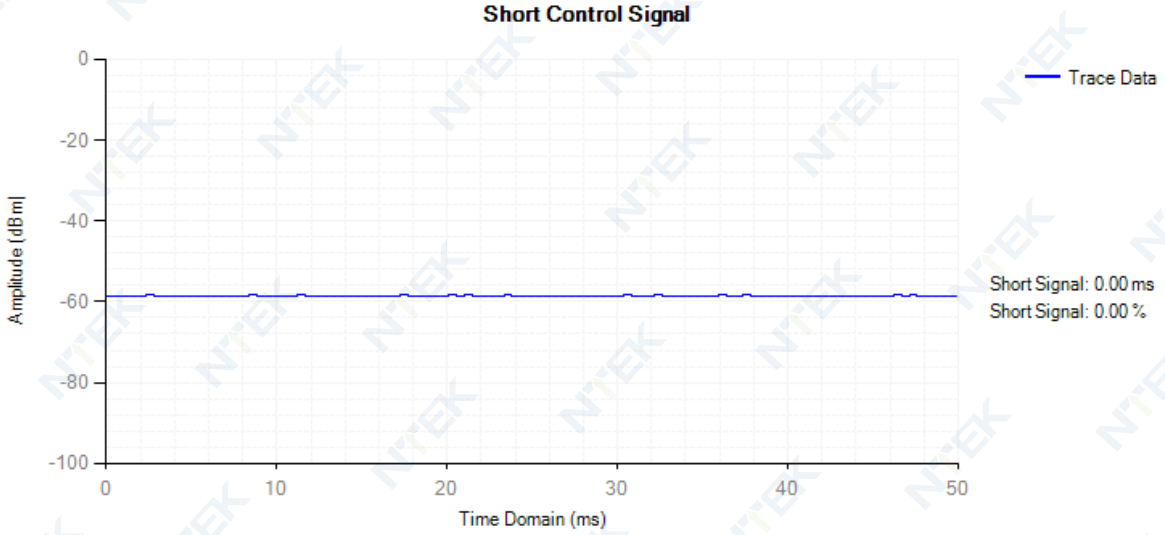
Control Signal NVNT 802.11ac80 5290MHz AWGN



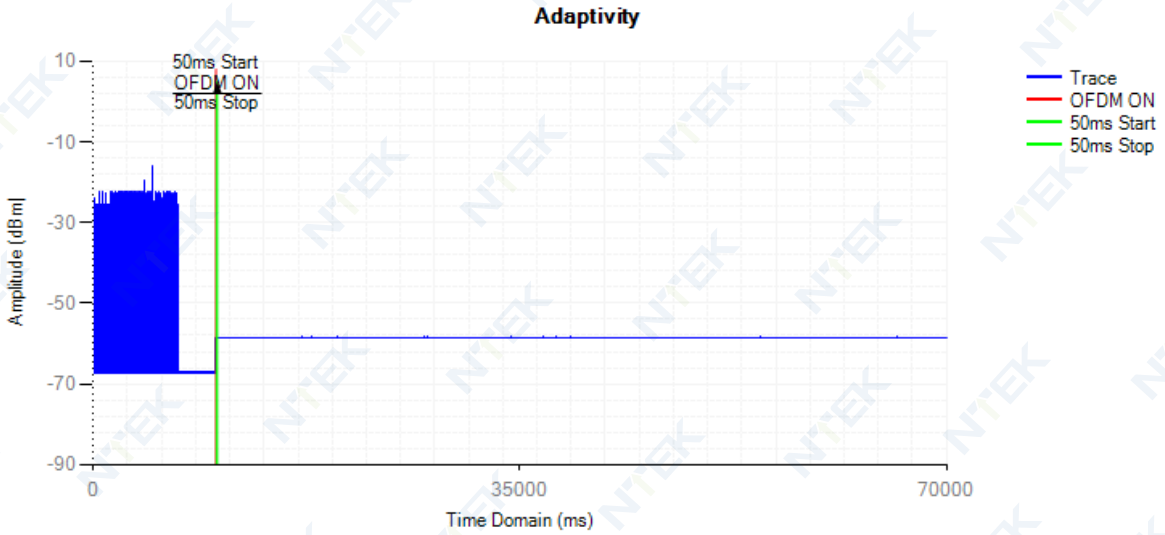
Adaptivity NVNT 802.11ac80 5290MHz LTE



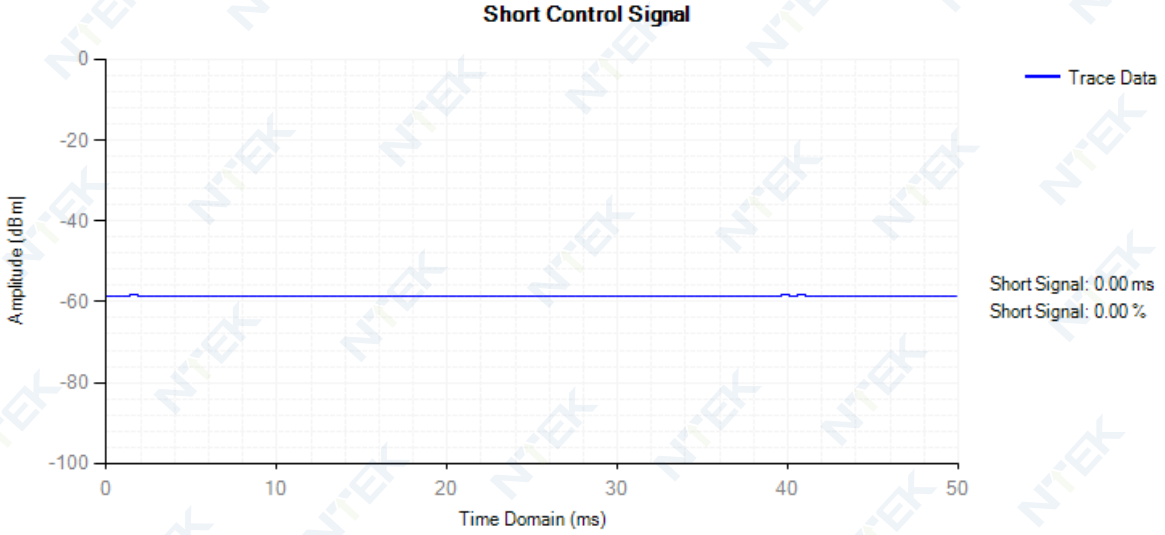
Control Signal NVNT 802.11ac80 5290MHz LTE



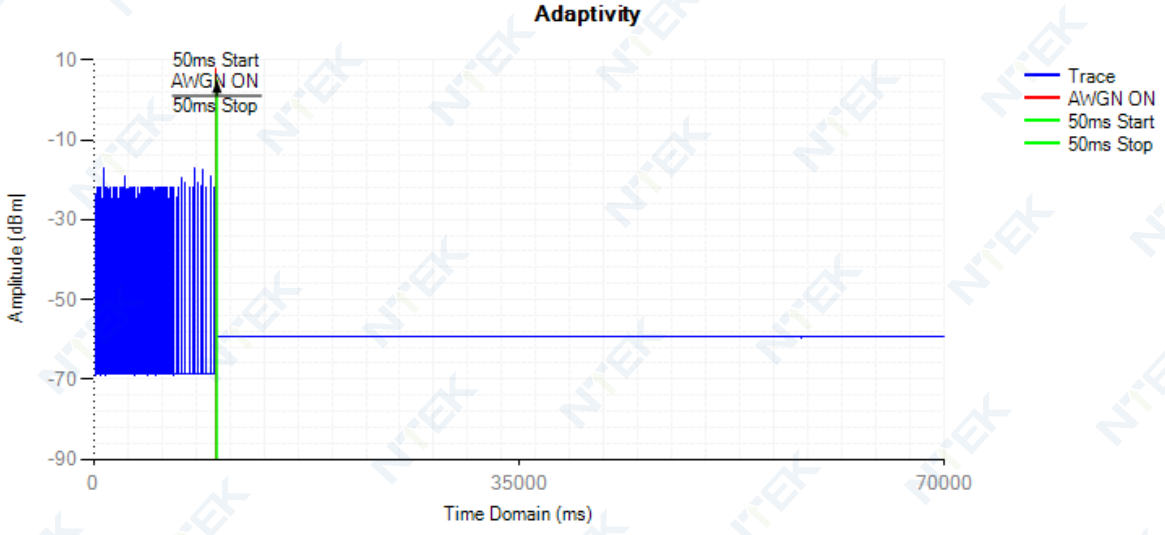
Adaptivity NVNT 802.11ac80 5290MHz OFDM



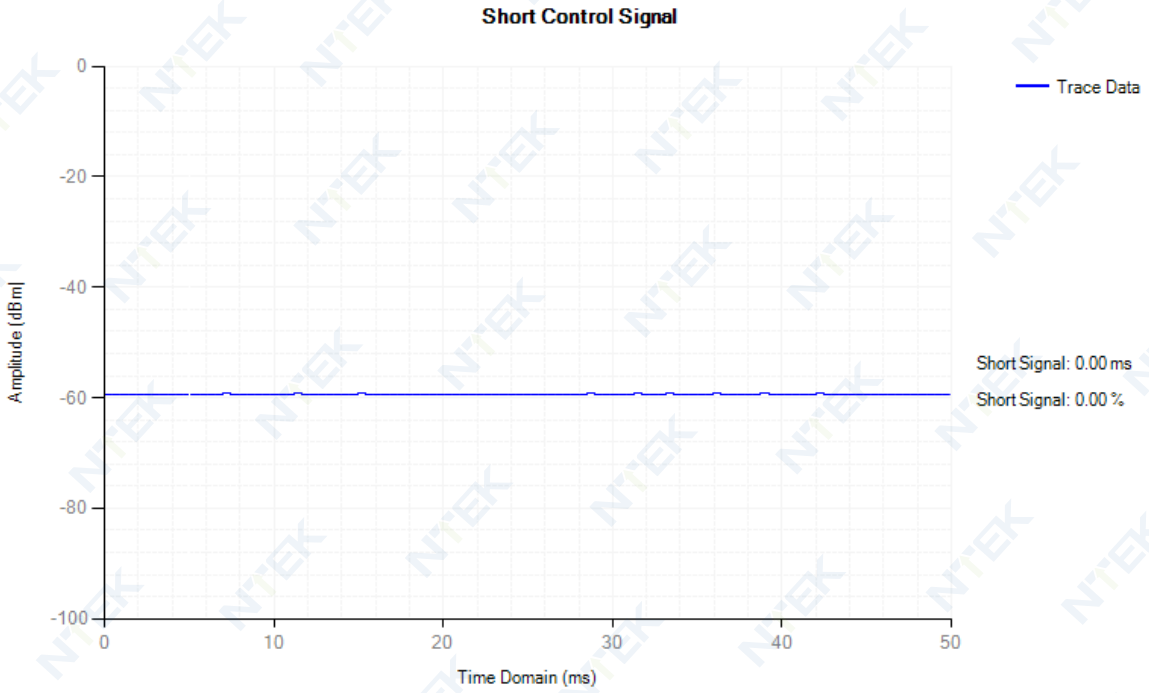
Control Signal NVNT 802.11ac80 5290MHz OFDM



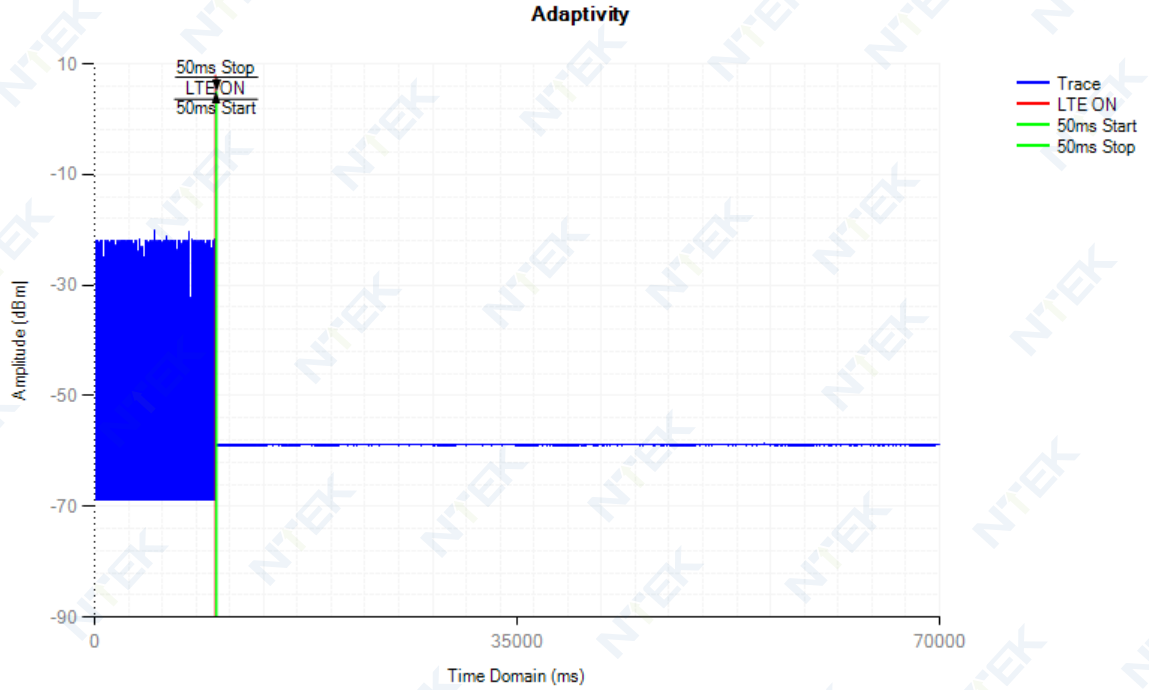
Adaptivity NVNT 802.11ac80 5530MHz AWGN



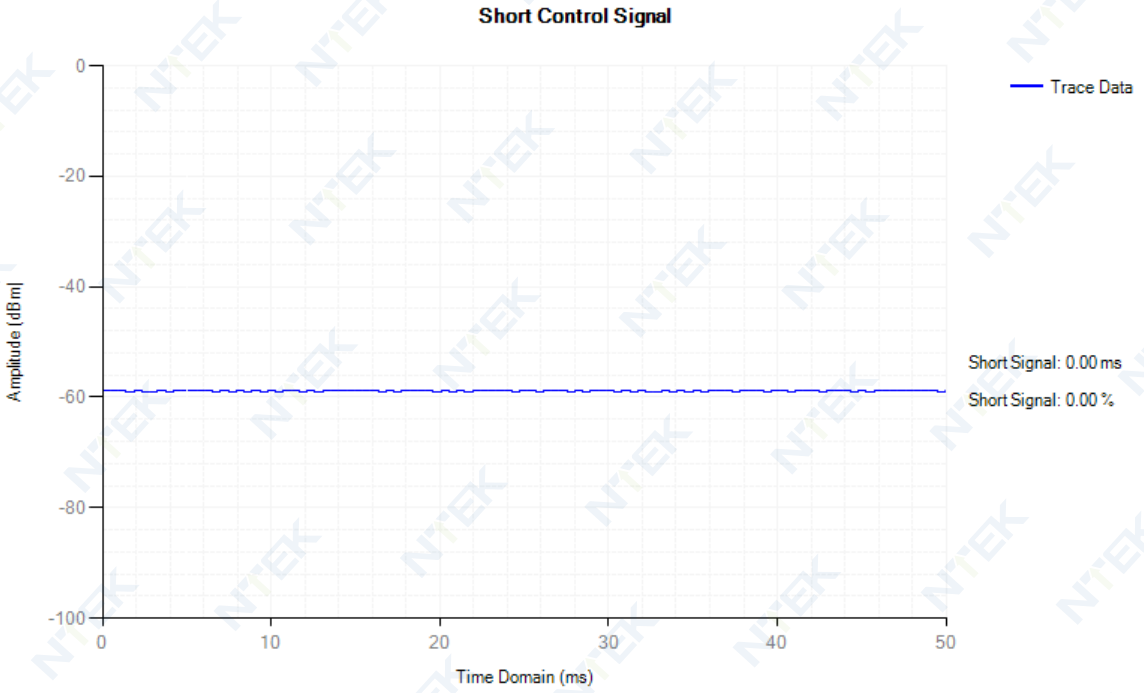
Control Signal NVNT 802.11ac80 5530MHz AWGN



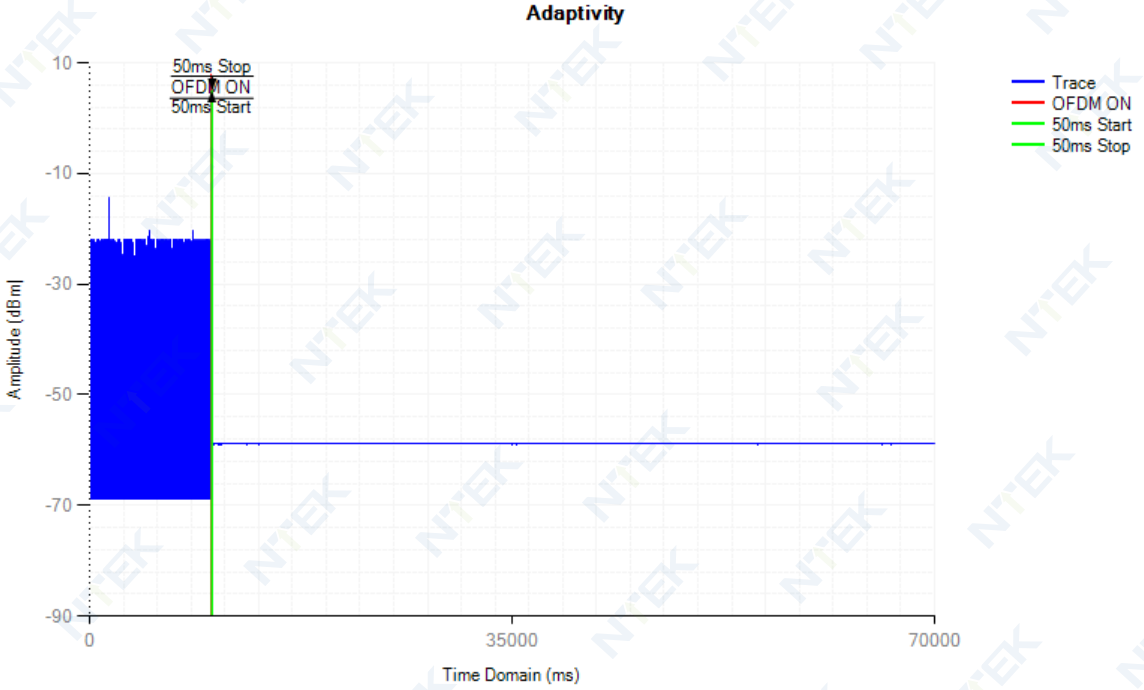
Adaptivity NVNT 802.11ac80 5530MHz LTE



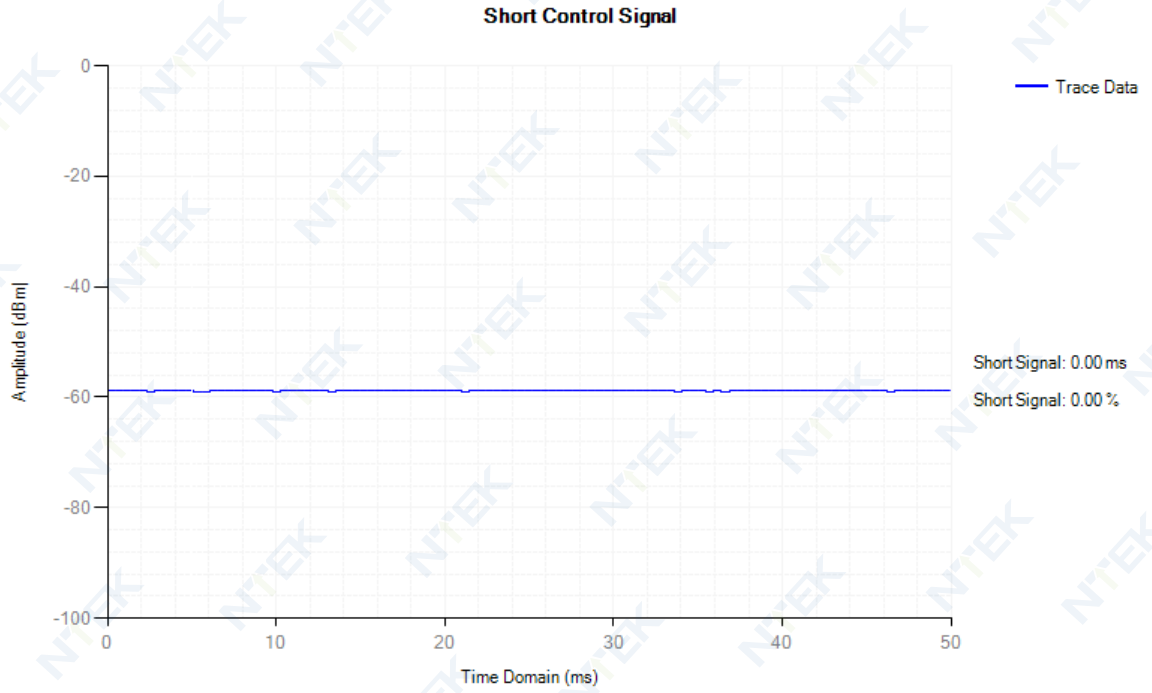
Control Signal NVNT 802.11ac80 5530MHz LTE



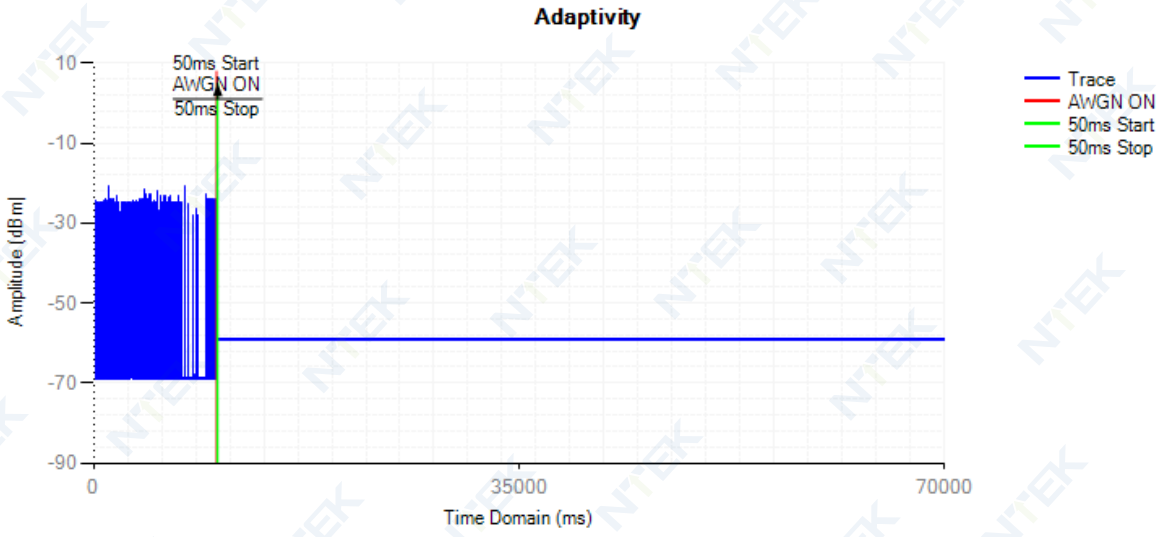
Adaptivity NVNT 802.11ac80 5530MHz OFDM



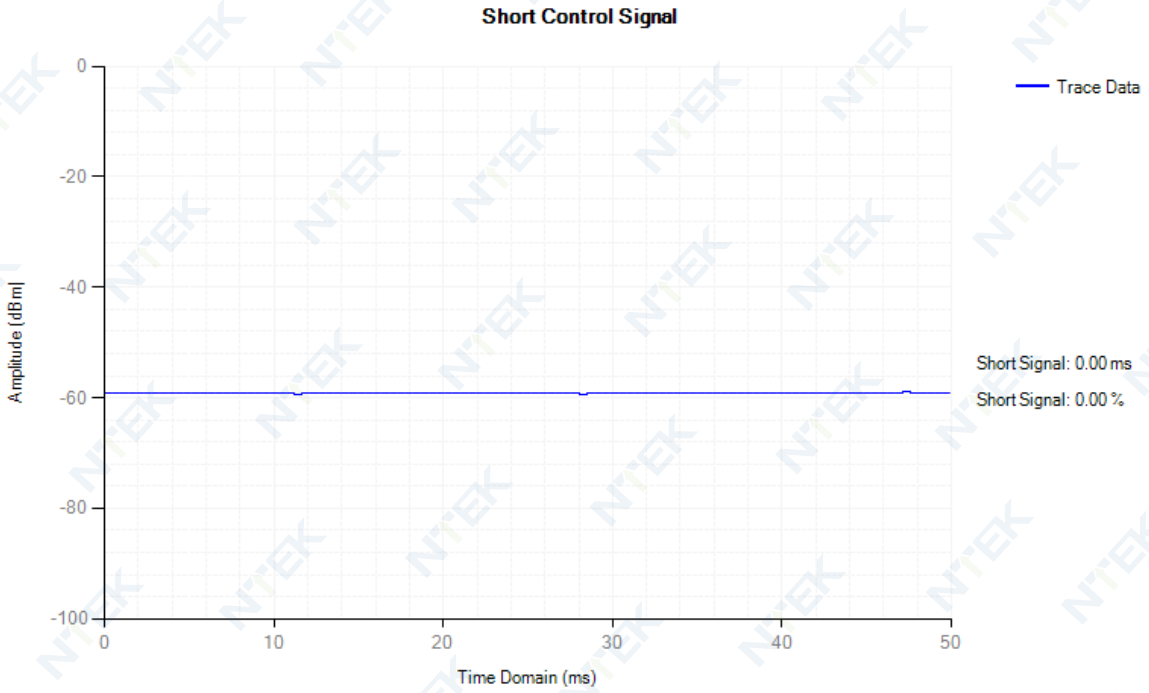
Control Signal NVNT 802.11ac80 5530MHz OFDM



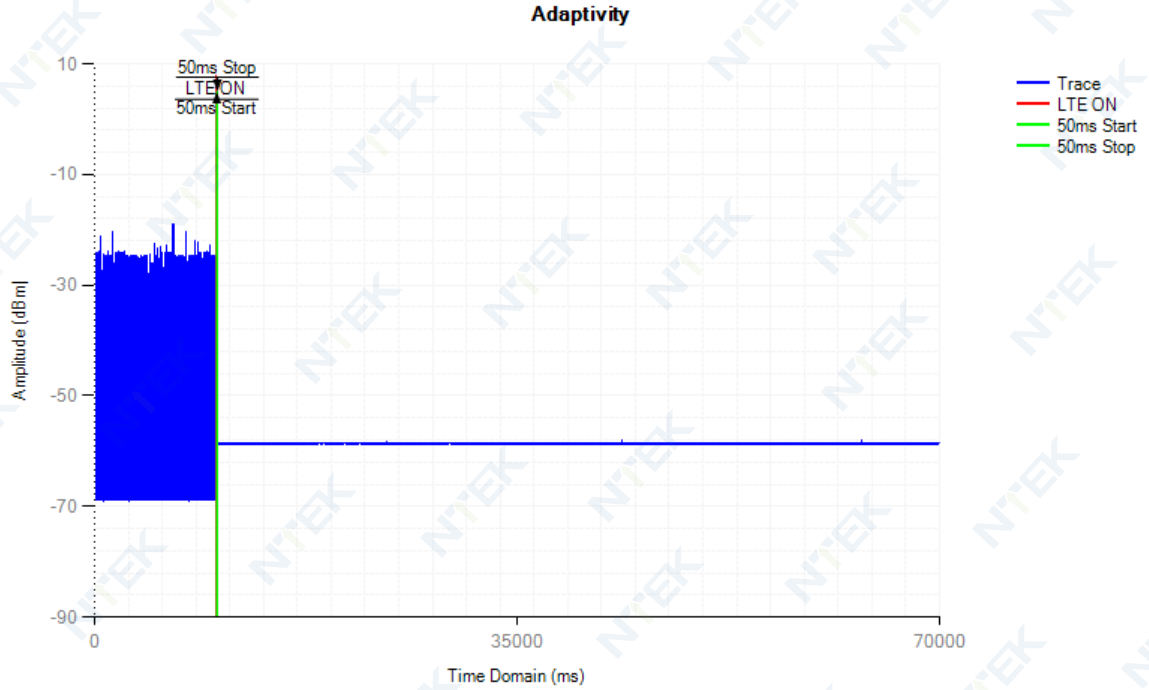
Adaptivity NVNT 802.11n(HT40) 5190MHz AWGN



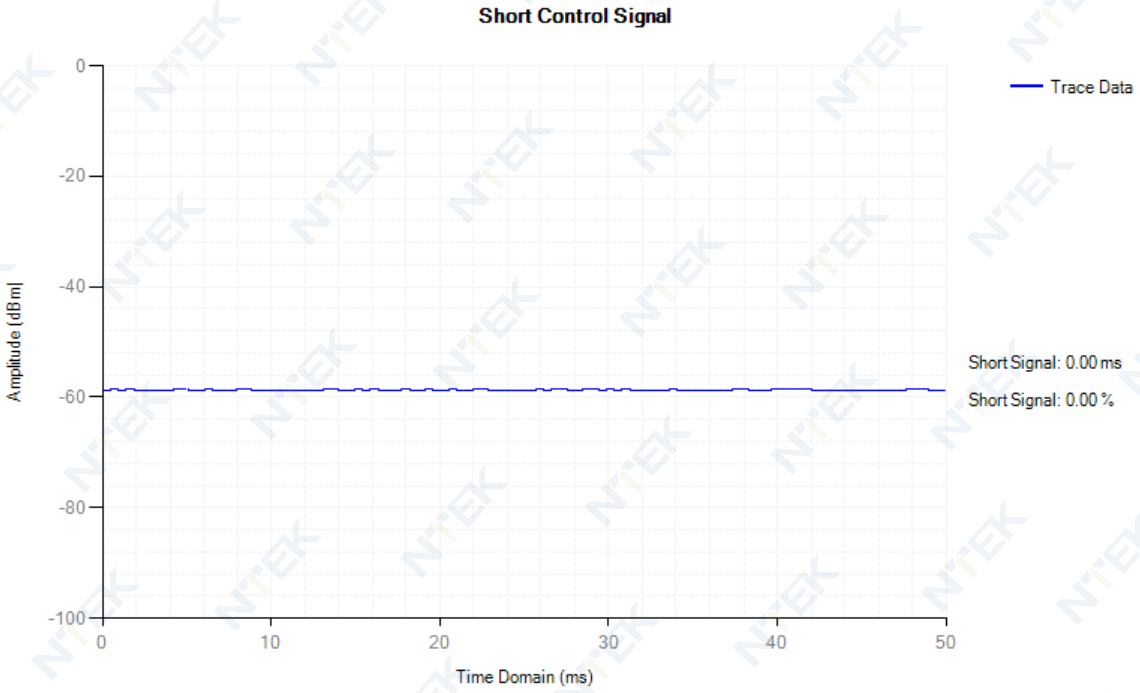
Control Signal NVNT 802.11n(HT40) 5190MHz AWGN



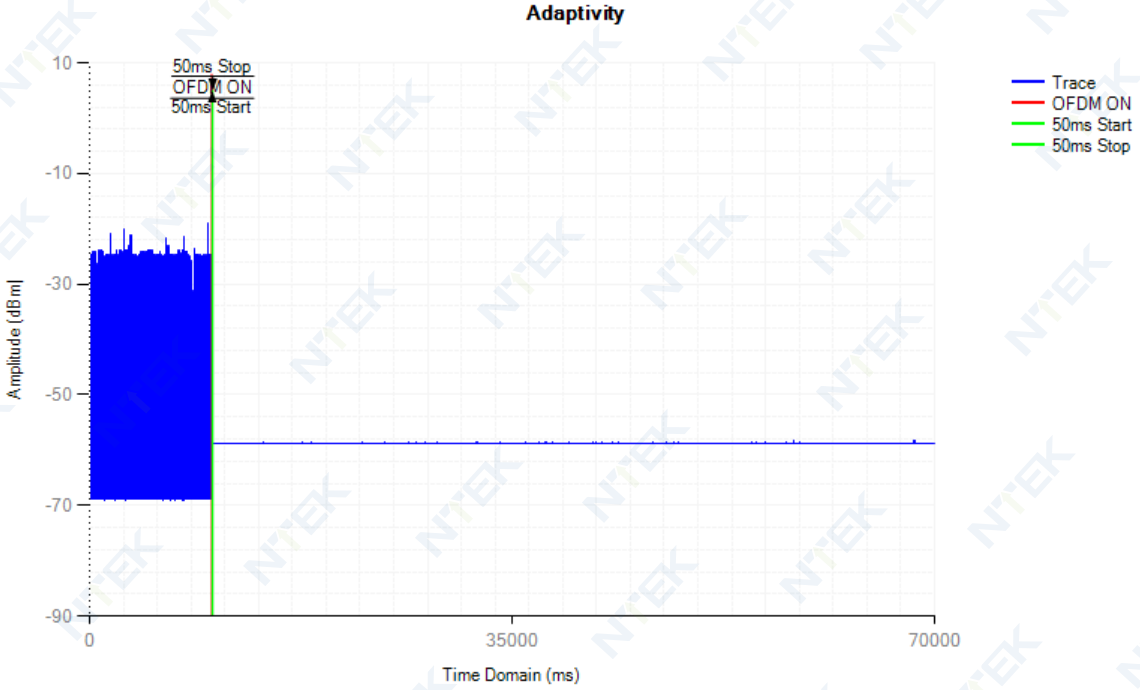
Adaptivity NVNT 802.11n(HT40) 5190MHz LTE



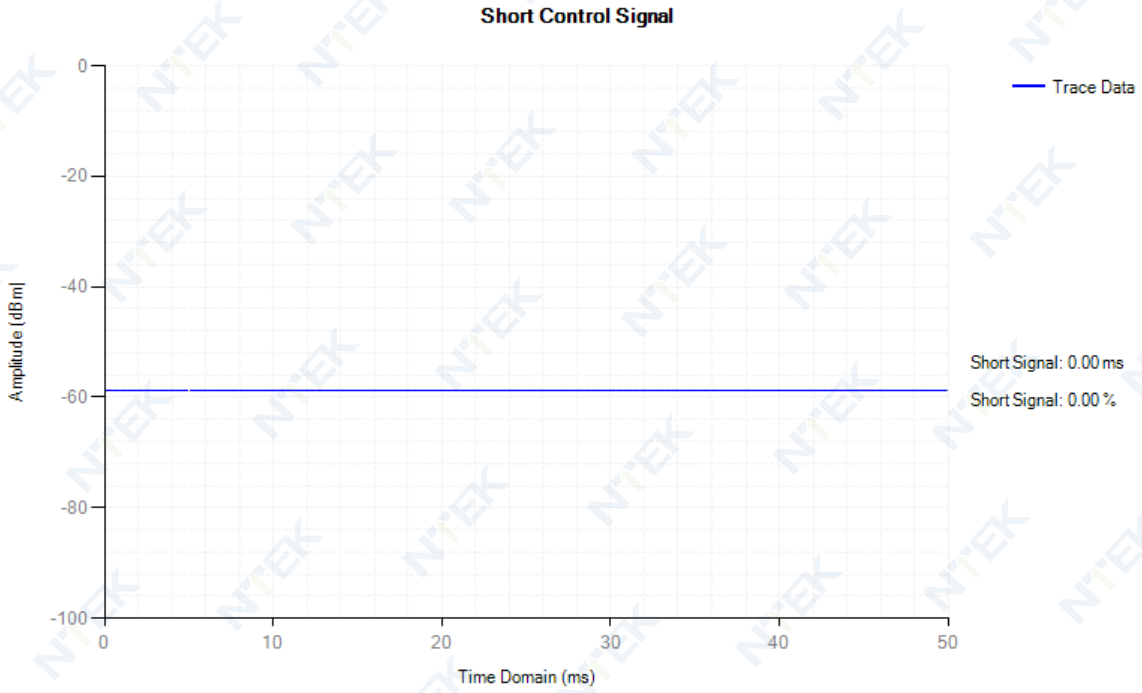
Control Signal NVNT 802.11n(HT40) 5190MHz LTE



Adaptivity NVNT 802.11n(HT40) 5190MHz OFDM



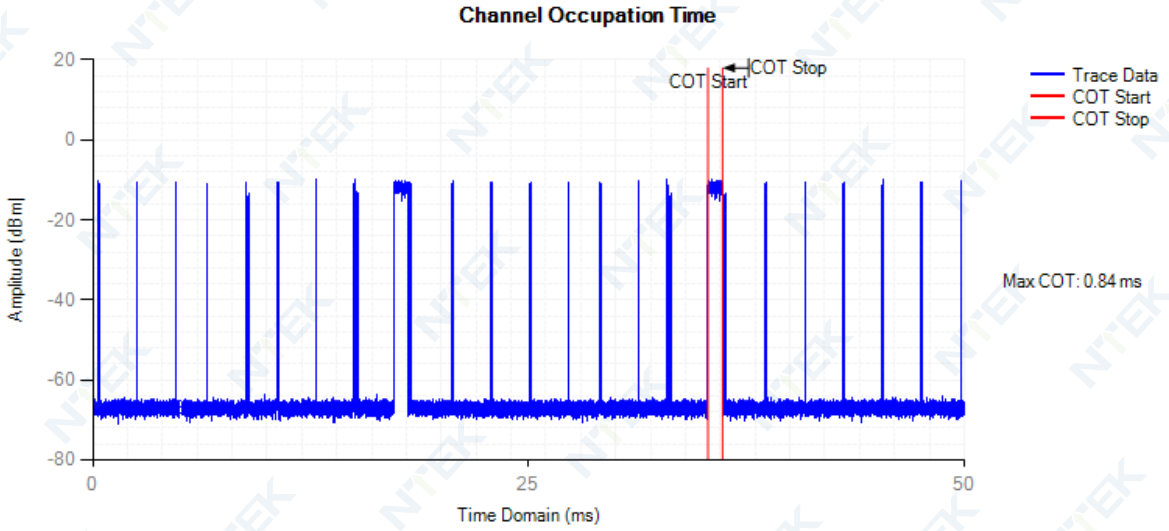
Control Signal NVNT 802.11n(HT40) 5190MHz OFDM



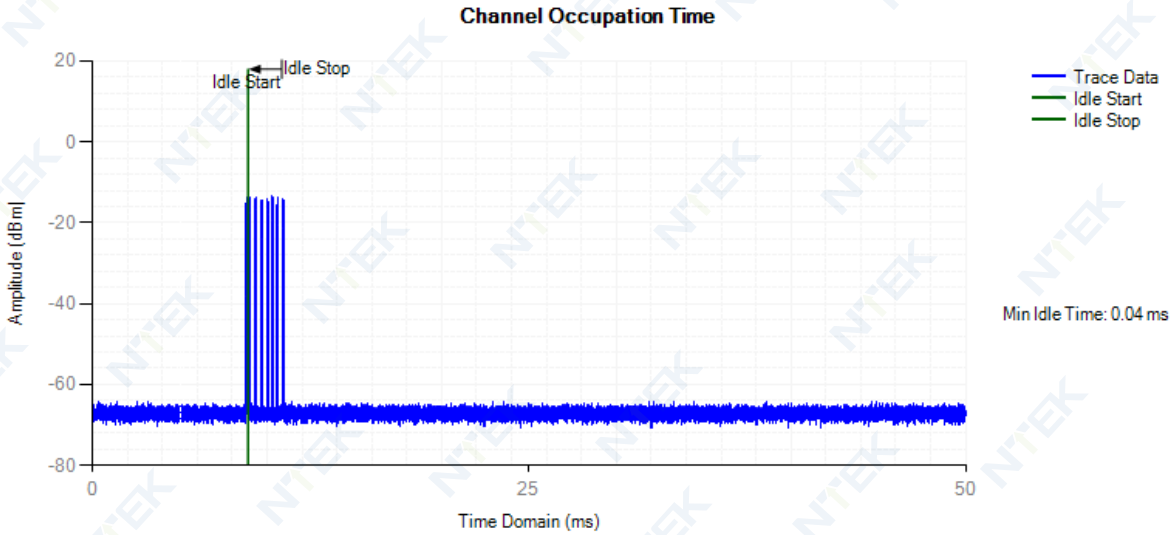
13.8 ADAPTIVITY COT CHANNEL OCCUPANCY TIME

Condition	Mode	Frequency (MHz)	Priority Class	Max COT (ms)	Limit COT (ms)	Min Idle Time (ms)	Limit Idle Time (ms)	Verdict
NVNT	802.11a	5180	1	0.838	<=6	0.035	>0.027	Pass
NVNT	802.11ac80	5210	1	2.89	<=6	0.082	>0.027	Pass
NVNT	802.11ac80	5290	1	0.172	<=6	0.037	>0.027	Pass
NVNT	802.11ac80	5530	1	0.112	<=6	0.035	>0.027	Pass
NVNT	802.11n(HT40)	5190	1	0.223	<=6	0.035	>0.027	Pass

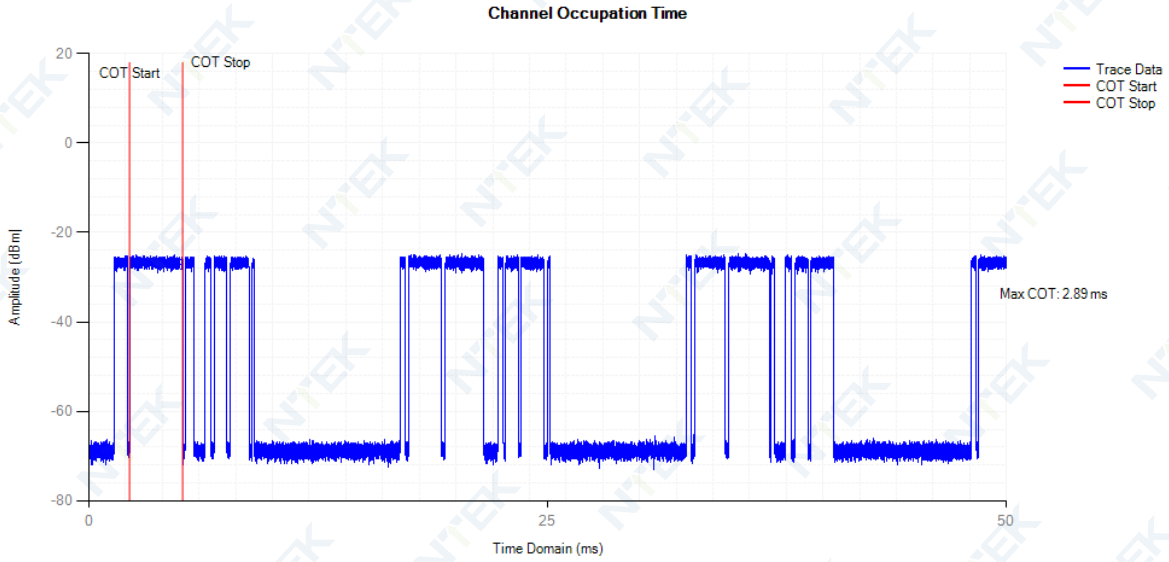
COT NVNT 802.11a 5180MHz



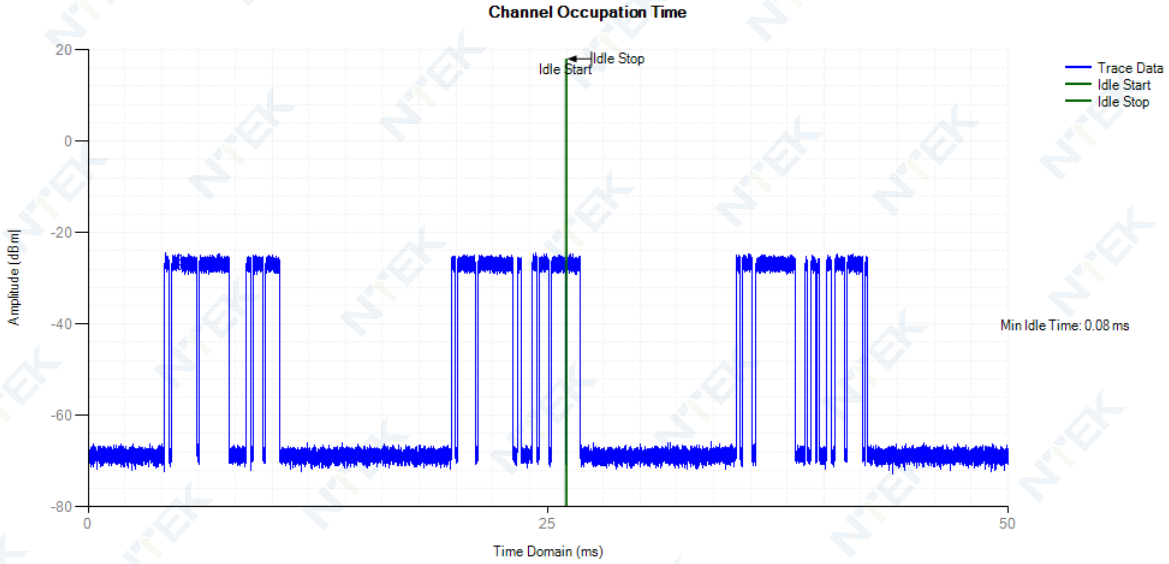
Idle NVNT 802.11a 5180MHz



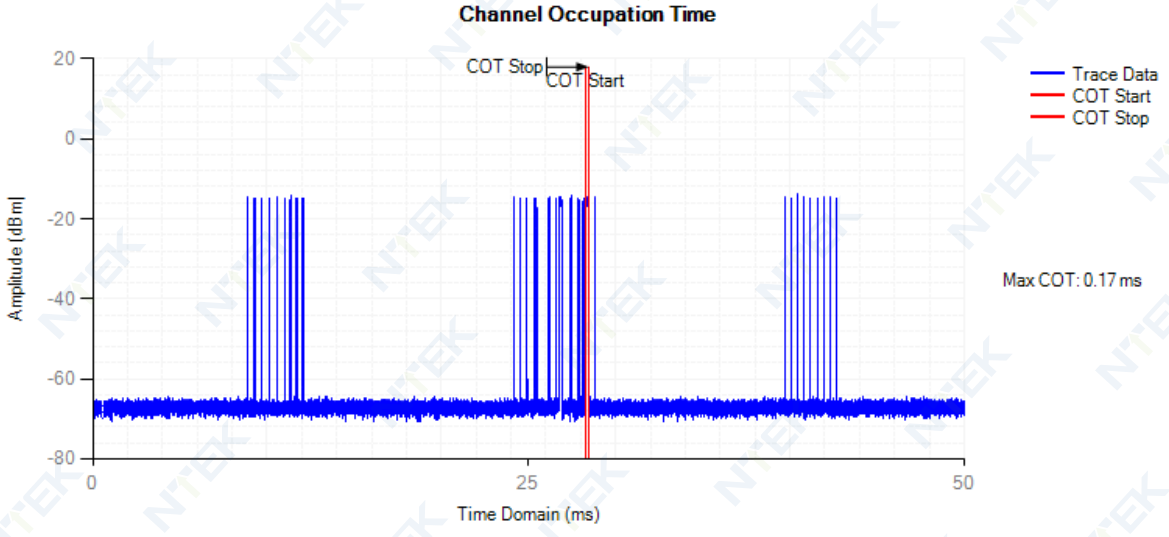
COT NVNT 802.11ac80 5210MHz



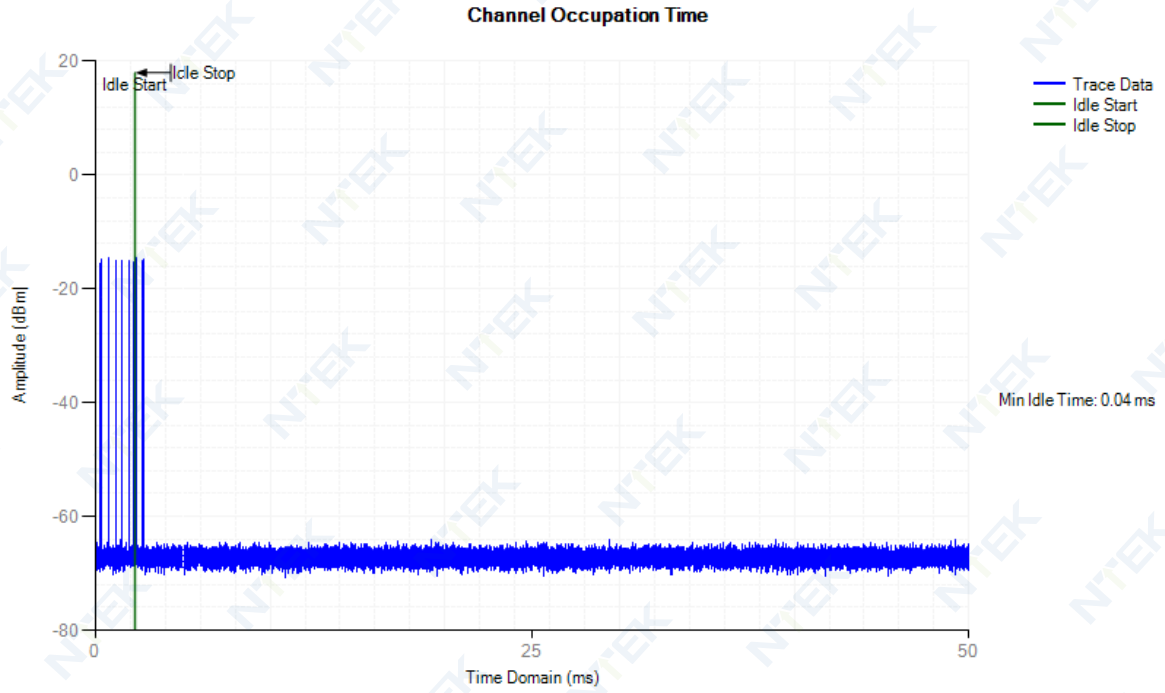
Idle NVNT 802.11ac80 5210MHz



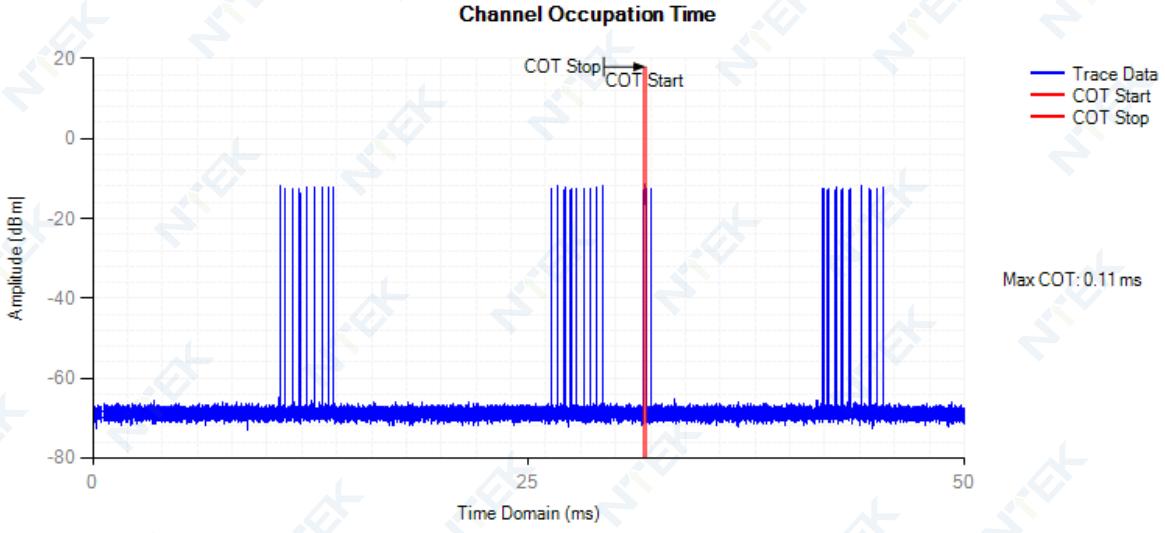
COT NVNT 802.11ac80 5290MHz



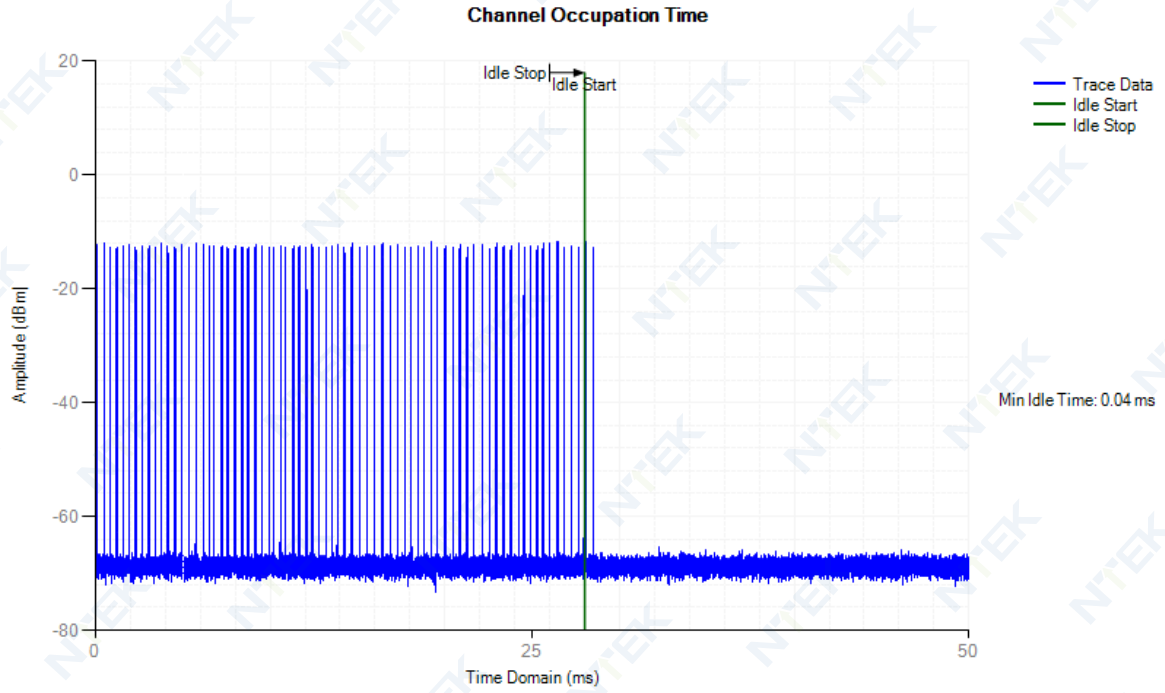
Idle NVNT 802.11ac80 5290MHz



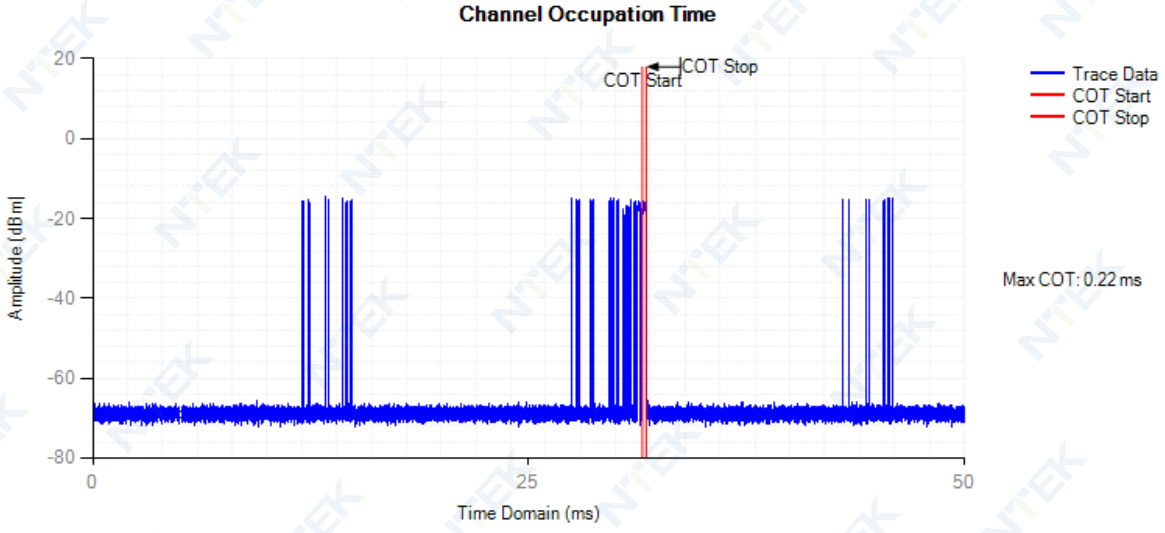
COT NVNT 802.11ac80 5530MHz



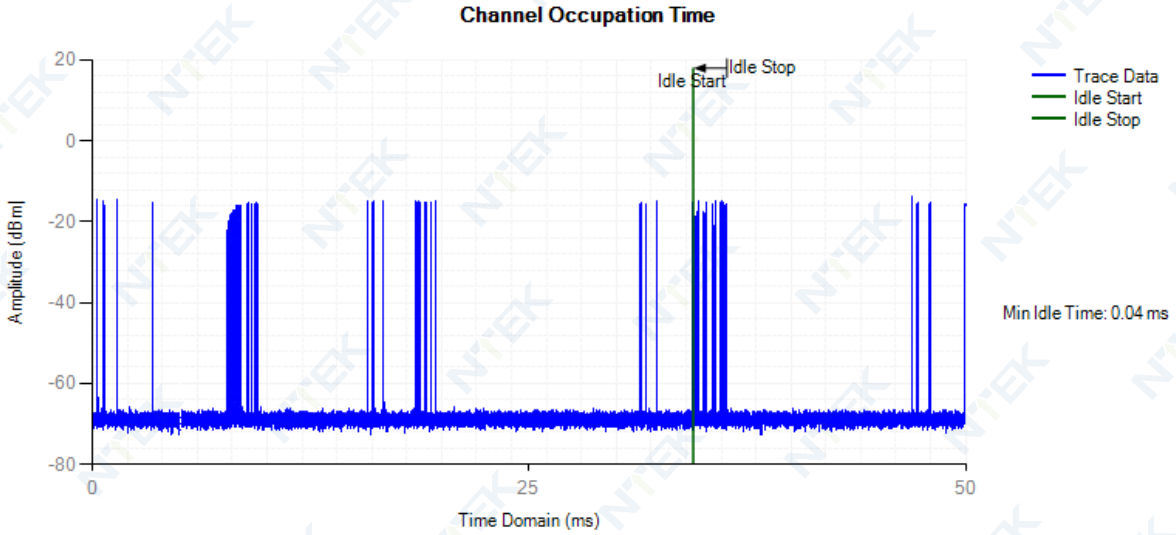
Idle NVNT 802.11ac80 5530MHz



COT NVNT 802.11n(HT40) 5190MHz



Idle NVNT 802.11n(HT40) 5190MHz

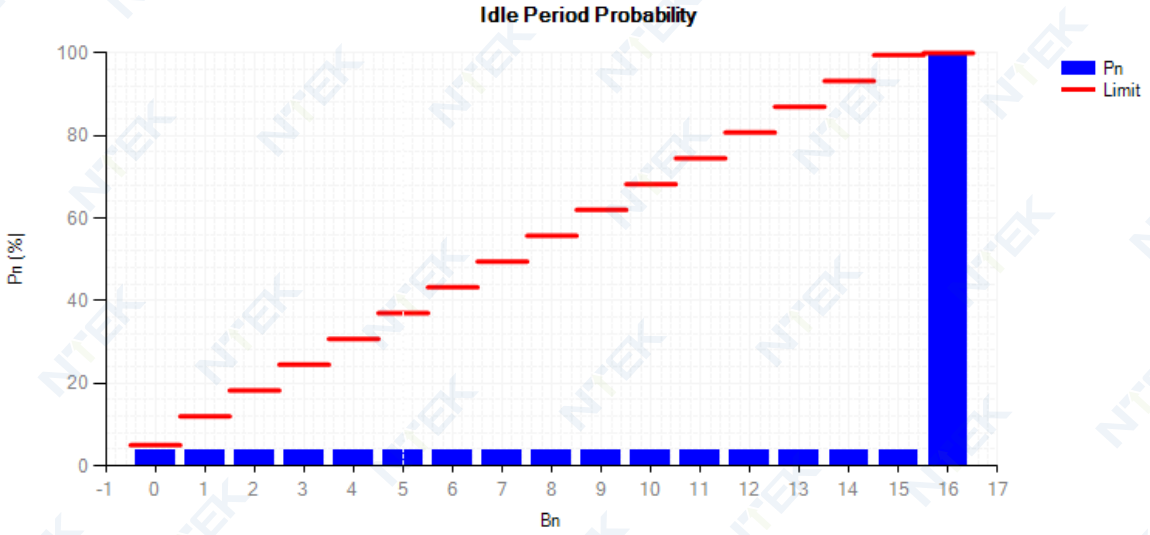


13.9 ADAPTIVITY COT IDLE PERIOD PROBABILITY

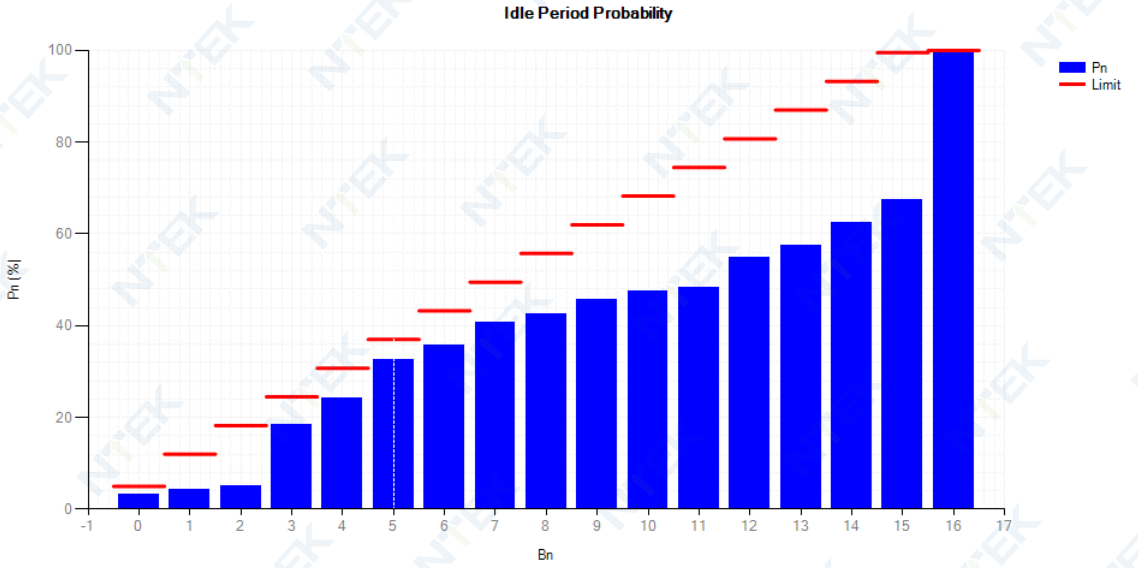
Condition	Mode	Frequency (MHz)	Priority Class	Bn	H(Bn)	Pn (%)	Limit (%)	Verdict
NVNT	802.11a	5180	1	0	375	3.74	5	Pass
NVNT	802.11a	5180	1	1	5	3.79	12	Pass
NVNT	802.11a	5180	1	2	1	3.8	18.25	Pass
NVNT	802.11a	5180	1	3	3	3.83	24.5	Pass
NVNT	802.11a	5180	1	4	1	3.84	30.75	Pass
NVNT	802.11a	5180	1	5	2	3.86	37	Pass
NVNT	802.11a	5180	1	6	2	3.88	43.25	Pass
NVNT	802.11a	5180	1	7	0	3.88	49.5	Pass
NVNT	802.11a	5180	1	8	1	3.89	55.75	Pass
NVNT	802.11a	5180	1	9	2	3.91	62	Pass
NVNT	802.11a	5180	1	10	1	3.92	68.25	Pass
NVNT	802.11a	5180	1	11	1	3.93	74.5	Pass
NVNT	802.11a	5180	1	12	1	3.94	80.75	Pass
NVNT	802.11a	5180	1	13	0	3.94	87	Pass
NVNT	802.11a	5180	1	14	2	3.96	93.25	Pass
NVNT	802.11a	5180	1	15	0	3.96	99.5	Pass
NVNT	802.11a	5180	1	16	9622	100	100	Pass
NVNT	802.11ac80	5210	1	0	4	3.33	5	Pass
NVNT	802.11ac80	5210	1	1	1	4.17	12	Pass
NVNT	802.11ac80	5210	1	2	1	5	18.25	Pass
NVNT	802.11ac80	5210	1	3	16	18.33	24.5	Pass
NVNT	802.11ac80	5210	1	4	7	24.17	30.75	Pass
NVNT	802.11ac80	5210	1	5	10	32.5	37	Pass
NVNT	802.11ac80	5210	1	6	4	35.83	43.25	Pass
NVNT	802.11ac80	5210	1	7	6	40.83	49.5	Pass
NVNT	802.11ac80	5210	1	8	2	42.5	55.75	Pass
NVNT	802.11ac80	5210	1	9	4	45.83	62	Pass
NVNT	802.11ac80	5210	1	10	2	47.5	68.25	Pass
NVNT	802.11ac80	5210	1	11	1	48.33	74.5	Pass
NVNT	802.11ac80	5210	1	12	8	55	80.75	Pass
NVNT	802.11ac80	5210	1	13	3	57.5	87	Pass
NVNT	802.11ac80	5210	1	14	6	62.5	93.25	Pass
NVNT	802.11ac80	5210	1	15	6	67.5	99.5	Pass
NVNT	802.11ac80	5210	1	16	39	100	100	Pass
NVNT	802.11ac80	5290	1	0	352	3.51	5	Pass
NVNT	802.11ac80	5290	1	1	1	3.52	12	Pass
NVNT	802.11ac80	5290	1	2	2	3.54	18.25	Pass
NVNT	802.11ac80	5290	1	3	2	3.56	24.5	Pass
NVNT	802.11ac80	5290	1	4	2	3.58	30.75	Pass
NVNT	802.11ac80	5290	1	5	1	3.59	37	Pass
NVNT	802.11ac80	5290	1	6	1	3.6	43.25	Pass
NVNT	802.11ac80	5290	1	7	1	3.61	49.5	Pass
NVNT	802.11ac80	5290	1	8	3	3.64	55.75	Pass
NVNT	802.11ac80	5290	1	9	0	3.64	62	Pass
NVNT	802.11ac80	5290	1	10	0	3.64	68.25	Pass
NVNT	802.11ac80	5290	1	11	0	3.64	74.5	Pass
NVNT	802.11ac80	5290	1	12	1	3.65	80.75	Pass
NVNT	802.11ac80	5290	1	13	1	3.66	87	Pass
NVNT	802.11ac80	5290	1	14	3	3.69	93.25	Pass
NVNT	802.11ac80	5290	1	15	0	3.69	99.5	Pass
NVNT	802.11ac80	5290	1	16	9652	100	100	Pass

NVNT	802.11ac80	5530	1	0	349	3.47	5	Pass
NVNT	802.11ac80	5530	1	1	1	3.48	12	Pass
NVNT	802.11ac80	5530	1	2	1	3.49	18.25	Pass
NVNT	802.11ac80	5530	1	3	0	3.49	24.5	Pass
NVNT	802.11ac80	5530	1	4	3	3.52	30.75	Pass
NVNT	802.11ac80	5530	1	5	1	3.53	37	Pass
NVNT	802.11ac80	5530	1	6	2	3.55	43.25	Pass
NVNT	802.11ac80	5530	1	7	0	3.55	49.5	Pass
NVNT	802.11ac80	5530	1	8	0	3.55	55.75	Pass
NVNT	802.11ac80	5530	1	9	0	3.55	62	Pass
NVNT	802.11ac80	5530	1	10	0	3.55	68.25	Pass
NVNT	802.11ac80	5530	1	11	0	3.55	74.5	Pass
NVNT	802.11ac80	5530	1	12	0	3.55	80.75	Pass
NVNT	802.11ac80	5530	1	13	0	3.55	87	Pass
NVNT	802.11ac80	5530	1	14	0	3.55	93.25	Pass
NVNT	802.11ac80	5530	1	15	0	3.55	99.5	Pass
NVNT	802.11ac80	5530	1	16	9696	100	100	Pass
NVNT	802.11n(HT40)	5190	1	0	504	4.04	5	Pass
NVNT	802.11n(HT40)	5190	1	1	6	5.1	12	Pass
NVNT	802.11n(HT40)	5190	1	2	186	6.96	18.25	Pass
NVNT	802.11n(HT40)	5190	1	3	203	8.98	24.5	Pass
NVNT	802.11n(HT40)	5190	1	4	167	10.65	30.75	Pass
NVNT	802.11n(HT40)	5190	1	5	190	12.55	37	Pass
NVNT	802.11n(HT40)	5190	1	6	159	14.14	43.25	Pass
NVNT	802.11n(HT40)	5190	1	7	163	15.77	49.5	Pass
NVNT	802.11n(HT40)	5190	1	8	163	17.4	55.75	Pass
NVNT	802.11n(HT40)	5190	1	9	155	18.95	62	Pass
NVNT	802.11n(HT40)	5190	1	10	181	20.76	68.25	Pass
NVNT	802.11n(HT40)	5190	1	11	158	22.34	74.5	Pass
NVNT	802.11n(HT40)	5190	1	12	184	24.18	80.75	Pass
NVNT	802.11n(HT40)	5190	1	13	165	25.82	87	Pass
NVNT	802.11n(HT40)	5190	1	14	149	27.31	93.25	Pass
NVNT	802.11n(HT40)	5190	1	15	179	29.1	99.5	Pass
NVNT	802.11n(HT40)	5190	1	16	7094	100	100	Pass

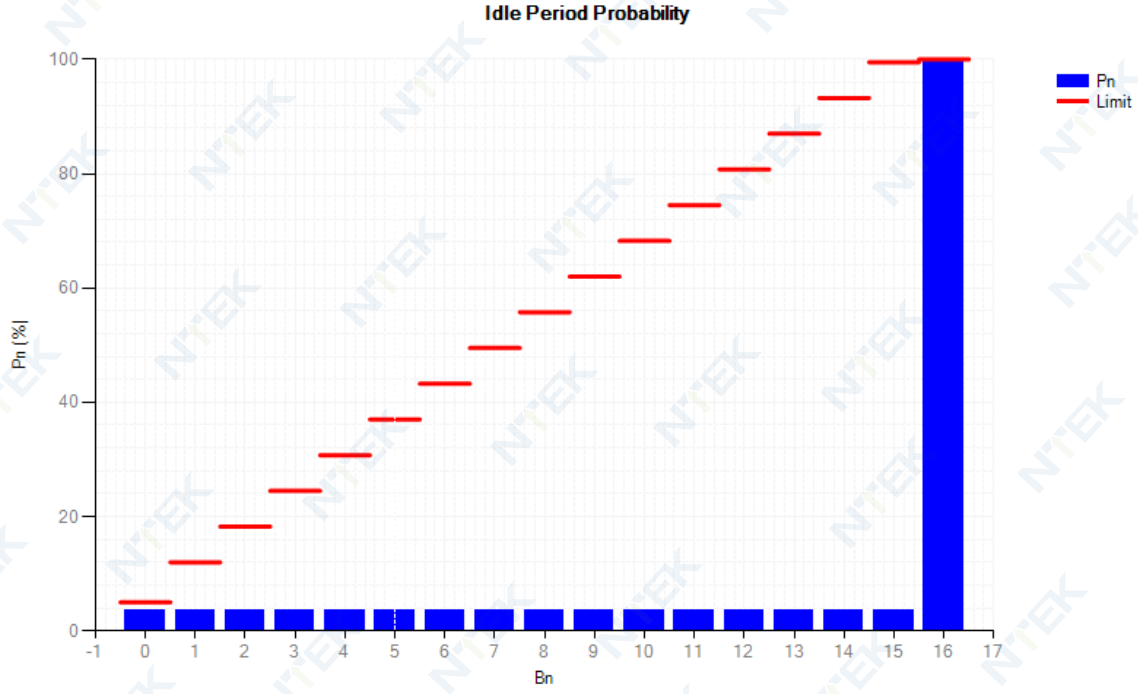
Idle Period Probability NVNT 802.11a 5180MHz



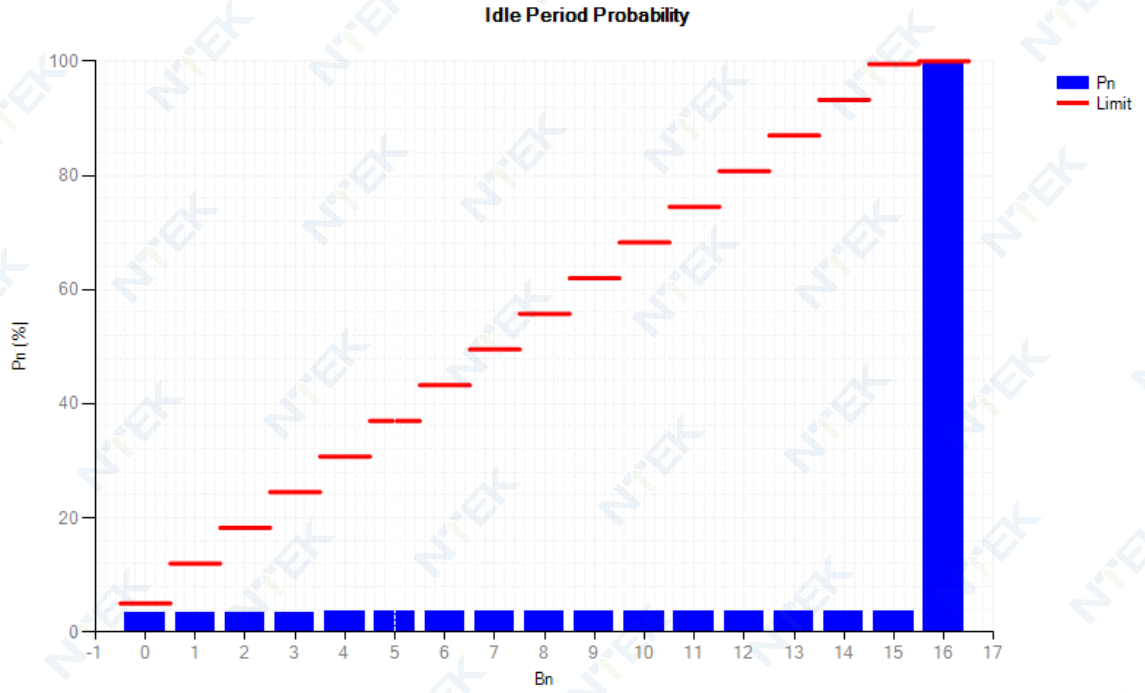
Idle Period Probability NVNT 802.11ac80 5210MHz



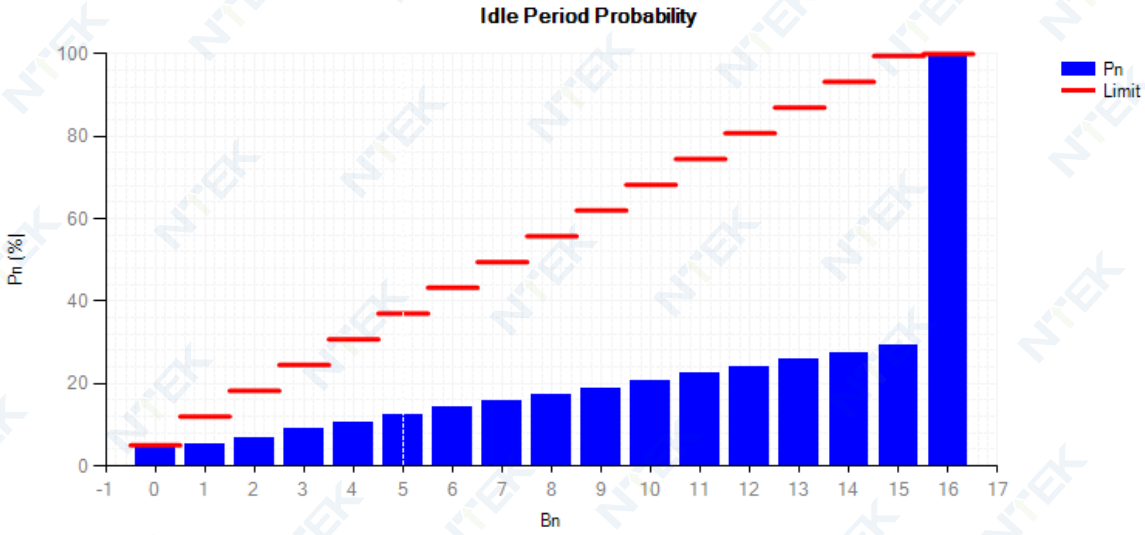
Idle Period Probability NVNT 802.11ac80 5290MHz



Idle Period Probability NVNT 802.11ac80 5530MHz

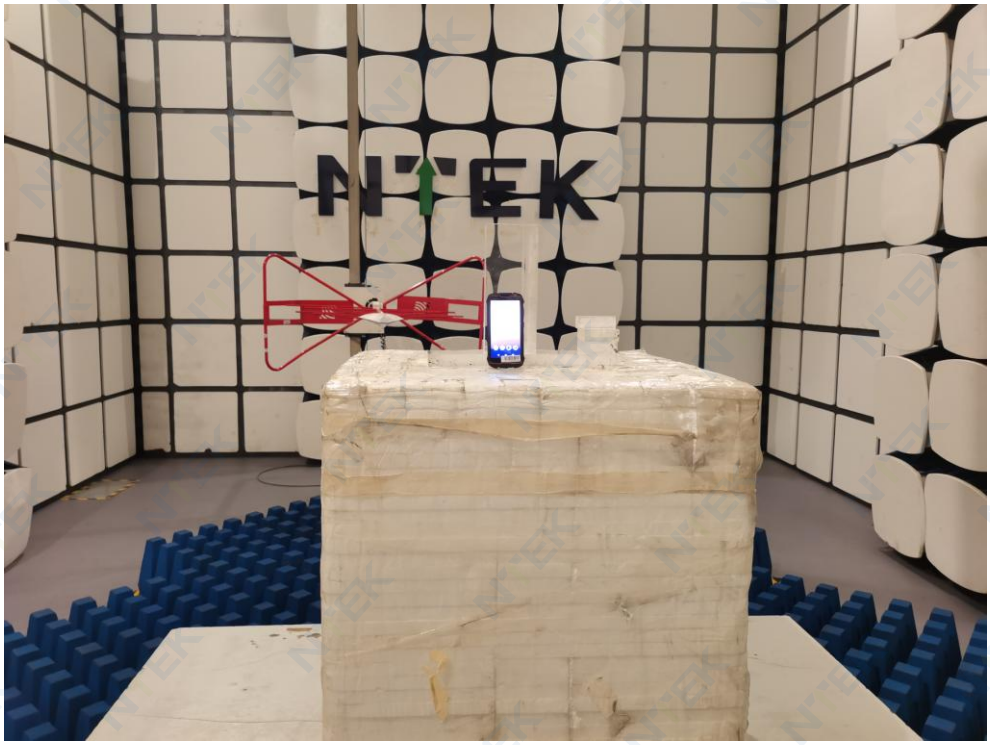


Idle Period Probability NVNT 802.11n(HT40) 5190MHz



14. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS



END OF REPORT