RADIO TEST REPORT

For

Shenzhen Wesion Technology Co., Ltd.

Edge-V

Test Model: Edge-V Max

Additional Model No.: please refer to page 7

Prepared for	:	Shenzhen Wesion Technology Co., Ltd.
Address	:	A#511, Mingyou Purchasing Center, Baoyuan Rd., Xixiang St., Bao’an Dis., Shenzhen, China.
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	101, 601, Xingyuan Industrial Park, Gushu Community, Xixiang Street, Bao’an District, Shenzhen, Guangdong, China
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Date of receipt of test sample	:	June 20, 2019
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	June 22, 2019 ~ September11, 2019
Date of Report	:	September 19, 2019

RADIO TEST REPORT
ETSI EN 300 328 V2.1.1 (2016-11)
Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Report Reference No.	**: LCS190618053AED**
Date of Issue	: September 19, 2019
Testing Laboratory Name	**: Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address	: 101, 601, Xingyuan Industrial Park, Gushu Community, Xixiang Street, Bao' an District, Shenzhen, Guangdong, China
Testing Location/ Procedure	: Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	**: Shenzhen Wesion Technology Co., Ltd.**
Address	: A#511, Mingyou Purchasing Center, Baoyuan Rd., Xixiang St., Bao' an Dis., Shenzhen, China.
Test Specification	
Standard	: ETSI EN 300 328 V2.1.1 (2016-11)
Test Report Form No.	: LCSEMC-1.0
TRF Originator.....	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2017-06

Test Item Description.	**: Edge-V**
Trade Mark.....	: Khadas
Test Model	: Edge-V Max
Ratings	: Input:100-240V, 0.7A Output:5V-3A, 9V-2.67A, 12V-2A
Result	**: Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Jayden Zhuo	Aking Jin	Gavin Liang
Jayden Zhuo / Administrators	Aking Jin/ Technique principal	Gavin Liang/ Manager

RADIO -- TEST REPORT

Test Report No. : LCS190618053AED	September 19, 2019 Date of issue

Test Model.....	: Edge-V Max
EUT.....	: Edge-V
Applicant.....	**: Shenzhen Wesion Technology Co., Ltd.**
Address.....	: A#511, Mingyou Purchasing Center, Baoyuan Rd., Xixiang St., Bao'an Dis., Shenzhen, China.
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Shenzhen Wesion Technology Co., Ltd.**
Address.....	: A#511, Mingyou Purchasing Center, Baoyuan Rd., Xixiang St., Bao'an Dis., Shenzhen, China.
Telephone.....	: /
Fax.....	: /
Factory.....	**: Shenzhen Wesion Technology Co., Ltd.**
Address.....	: A#511, Mingyou Purchasing Center, Baoyuan Rd., Xixiang St., Bao'an Dis., Shenzhen, China.
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	September 19, 2019	Initial Issue	Gavin Liang

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Test Report Description Page

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	:	Edge-V
Test Model	:	Edge-V Max
List Model No.		Edge-V Pro, Edge-V Basic
Model Declaration		PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	:	Input:100-240V, 0.7A Output:5V-3A, 9V-2.67A, 12V-2A
Hardware Version	:	V13
Software Version	:	Android 7.1
Bluetooth	:	
Frequency Range	:	2402MHz ~ 2480MHz
Channel Number	:	79 channels for Bluetooth 5.0 (DSS) 40 channels for Bluetooth 5.0 (DTS) 40 channels for Bluetooth 5.0 (DTS)
Channel Spacing	:	1MHz for Bluetooth 5.0 (DSS) 2MHz for Bluetooth 5.0 (DTS) 2MHz for Bluetooth 5.0 (DTS)
Modulation Type	:	GFSK, π/4-DQPSK, 8-DPSK for Bluetooth 5.0 (DSS) GFSK for Bluetooth 5.0 (DTS) GFSK for Bluetooth 5.0 (DTS)
Bluetooth Version	:	V5.0
Antenna Description	:	PCB Antenna, 3.7dB (Max.)
WIFI(2.4G Band)		
Frequency Range	:	2.412-2.472GHz
Channel Number	:	13 Channels for WIFI 20MHz Bandwidth(802.11b/g/n-HT20)
Channel Spacing	:	5MHz
Modulation Type	:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK)
Antenna Description	:	PCB Antenna, 3.7dB (Max.)
WIFI(5.2G Band)	:	
Frequency Range	:	5180MHz-5240MHz
Channel Number	:	4 Channels for 20MHz bandwidth(5180-5240MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	:	802.11a/n/ac: OFDM
Antenna Description	:	PCB Antenna, 3.38dBi (Max.)
SRD(5.8G Band)	:	
Frequency Range	:	5745MHz-5825MHz
Channel Number	:	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	:	802.11a/n/ac: OFDM
Antenna Description	:	PCB Antenna, 3.38dBi (Max.)

1.2. Objective

This Type approval report is prepared on behalf of **Shenzhen Wesion Technology Co., Ltd.**in accordance with ETSI EN 300 328 V2.1.1 (2016-11), Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU.

The objective is to determine compliance with ETSI EN 300 328 V2.1.1 (2016-11).

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Test Methodology

All measurements contained in this report were conducted with ETSI EN 300 328 V2.1.1 (2016-11).

1.5. Description of Test Facility

FCC Registration Number is 254912.
Industry Canada Registration Number is 9642A-1.
EMSD Registration Number is ARCB0108.
UL Registration Number is 100571-492.
TUV SUD Registration Number is SCN1081.
TUV RH Registration Number is UA 50296516-001.
NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier: CN0071

1.6. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
DELL	Notebook	Vostro 15-7570	--	CE

1.7. External I/O

I/O Port Description	Quantity	Cable
DC IN Port	1	N/A
LAN Port	1	N/A
HDMI Port	1	N/A
Micro USB Port	1	N/A
USB Port	2	N/A

1.8. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Occupied Channel Bandwidth	5 %
RF output power, conducted	1,5 dB
Power Spectral Density, conducted	3 dB
Unwanted Emissions, conducted	3 dB
All emissions, radiated	6 dB
Temperature	1 °C
Humidity	5 %
DC and low frequency voltages	3 %
Time	5 %
Duty Cycle	5 %

1.9. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	24.8
Humidity (%RH)	25-75	54.3
Barometric pressure (mbar)	860-1060	950-1000

1.10. Description Of Test Modes

LCS has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Receive by 802.11b
Mode 5: Receive by 802.11g
Mode 6: Receive by 802.11n(20MHz)

Note:

(1) For portable device, radiated spurious emission was verified over X, Y, Z Axis, and shown the worst case on this report.

(2) Regard to the frequency band operation for systems using Wide Band modulation: the lowest, middle, highest frequency channel for conducted test, and the lowest, highest frequency channel for radiation spurious test.

(3) The extreme test condition for voltage and temperature were declared by the manufacturer.

2. SYSTEM TEST CONFIGURATION

2.1. Justification

The system was configured for testing in engineering mode.

2.2. EUT Exercise Software

N/A.

2.3. Special Accessories

N/A.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Configuration of Test Setup

Please refer to the test setup photo.

3. SUMMARY OF TEST RESULT

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Technical requirements for the equipment using wide band modulations other than FHSS:

Performed Test Item	Normative References	Test Performed	Deviation
RF Output Power & Receiver Category	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Power Spectral Density	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Duty cycle, Tx-Sequence, Tx-gap	ETSI EN 300 328 V2.1.1 (2016-11)	N/A	N/A
Medium Utilisation (MU) factor	ETSI EN 300 328 V2.1.1 (2016-11)	N/A	N/A
Adaptivity	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Occupied Channel Bandwidth	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Transmitter unwanted emissions in the out-of-band domain	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Transmitter unwanted emissions in the spurious domain	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Receiver Spurious Emissions	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No
Receiver Blocking	ETSI EN 300 328 V2.1.1 (2016-11)	Yes	No

Note:
1. The EUT can operate in an adaptive mode, and can't operate in a non-adaptive mode which is stated by the supplier.
2. The EUT is equipment which using wide band modulations other than FHSS. It is an adaptive equipment which can't operate in non-adaptive mode.

4. RF OUTPUT POWER

4.1. Limit

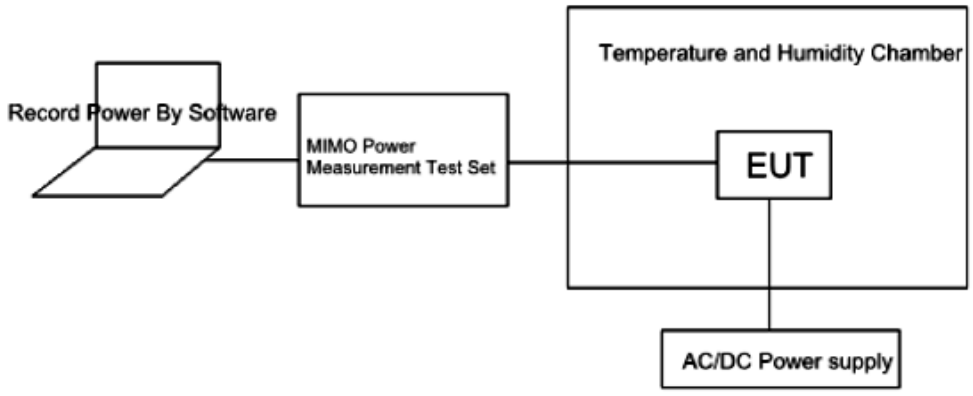
For adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm.

The maximum RF output power for non-adaptive equipment shall be declared by the supplier and shall not exceed 20 dBm. For non-adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be equal to or less than the value declared by the supplier.

This limit shall apply for any combination of power level and intended antenna assembly.

4.2. Test Setup

For Conducted Measurement



4.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.2

Step 1:

• The fast power sensor use the following setting: Sample speed 1 MS/s.

Step 2:

• Connect the power sensor to the transmit port, sample the transmit signal and store the raw data.Use these stored samples in all following steps.

Step 3:

• Find the start and stop times of each burst in the stored measurement samples.

Step 4:

• Between the start and stop times of each individual burst calculate the RMS power over the burst. Save these Pburst values, as well as the start and stop times for each burst.

Step 5:

• The highest of all Pburst values (value "A" in dBm) will be used for maximum e.i.r.p. calculations.

Step 6:

• Add the (stated) antenna assembly gain "G" in dBi of the individual antenna.

• If applicable, add the additional beamforming gain "Y" in dB.

The RF Output Power (P) shall be calculated using the formula below:
P = A + G + Y

4.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

4.5. Receiver Category

Receiver Category 1: Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p. shall be considered as receiver category 1 equipment.

Receiver Category 2:Non-adaptive equipment with a Medium Utilization (MU) factor greater than 1 % and less than or equal to 10 % or adaptive equipment with a maximum RF output power of 10 dBm e.i.r.p. shall be considered as receiver category 2 equipment.

Receiver Category 3: Non-adaptive equipment with a maximum Medium Utilization (MU) factor of 1 % or adaptive equipment with a maximum RF output power of 0 dBm e.i.r.p. shall be considered as receiver category 3 equipment.

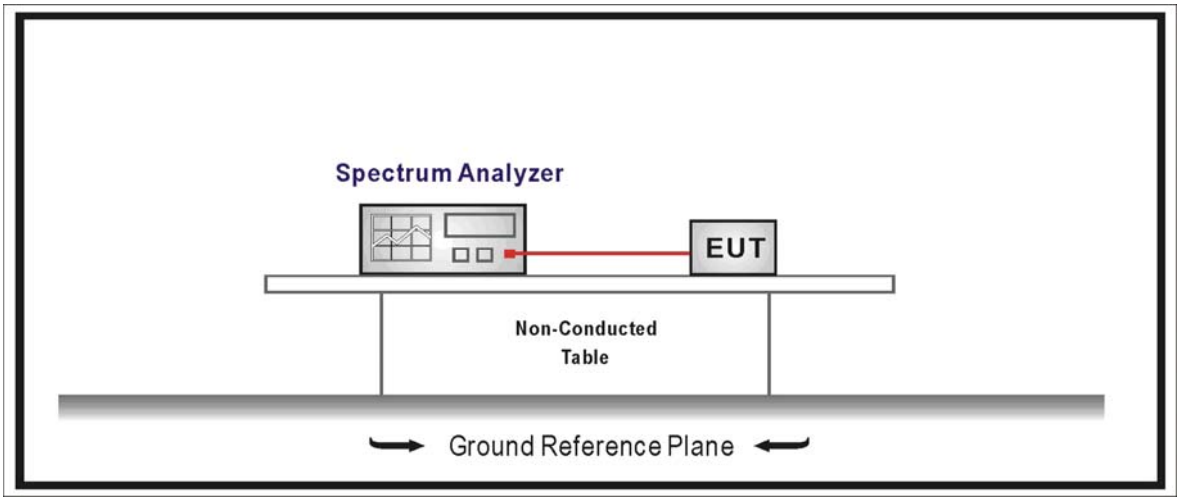
As this an adaptivity device with a maximum power of 16.93dBm, **it belongs to recevier category 1**.

5. POWER SPECTRAL DENSITY

5.1. Limit

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10dBm per MHz.

5.2. Test Setup



5.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.3

Step 1:

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

- Start Frequency: 2 400 MHz
- Stop Frequency: 2 483,5 MHz
- Resolution BW: 10 kHz
- Video BW: 30 kHz
- Sweep Points: > 8 350
- Detector: RMS
- Trace Mode: Max Hold
- Sweep time: Auto

For non-continuous signals, wait for the trace to be completed. Save the (trace) data set to a file.

Step 2:

For each frequency point, add up the amplitude (power) values for the different transmit chains and use this as the new data set.

Step 3:

Add up the values for amplitude (power) for all the samples in the file.

Step 4:

Normalize the individual values for amplitude so that the sum is equal to the RF Output Power (e.i.r.p.).

Step 5:

Starting from the first sample in the file (lowest frequency), add up the power of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

Step 6:

Shift the start point of the samples added up in step 5 by 1 sample and repeat the procedure in step 5 (i.e. sample #2 to #101).

Step 7:

Repeat step 6 until the end of the data set and record the radiated Power Spectral Density values for each of the 1 MHz segments. From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT.

5.4. Test Result

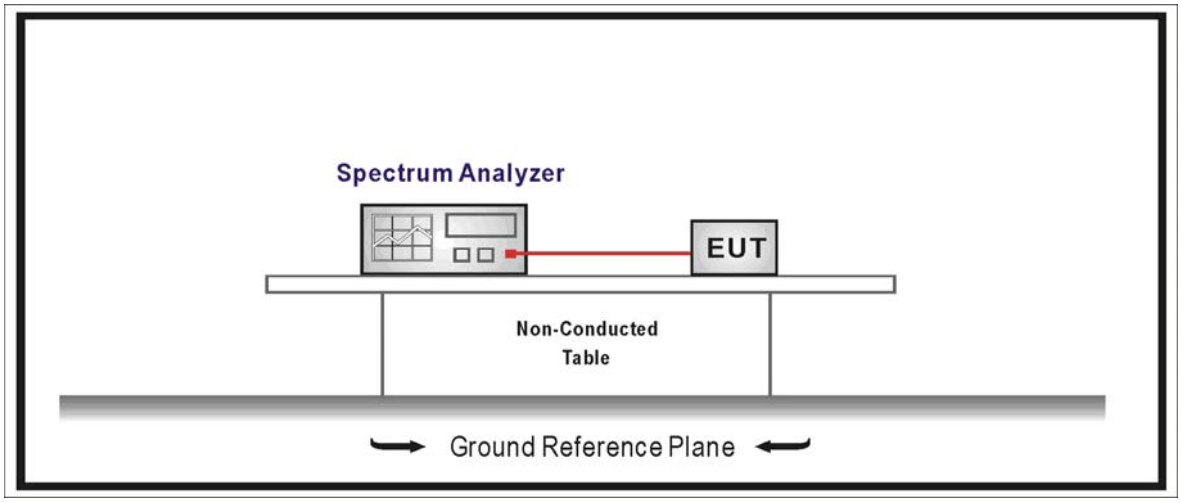
Please refer to the Appendix for 2.4G WIFI RF Test Data

6. DUTY CYCLE, TX-SEQUENCE, TX-GAP

6.1. Limit

The Duty Cycle shall be equal to or less than the maximum value declared by the supplier.
The maximum Tx-sequence Time and the minimum Tx-gap Time shall be according to the formula below: Maximum Tx-Sequence Time = Minimum Tx-gap Time = M
where M is in the range of 3,5 ms to 10 ms.

6.2. Test Setup



6.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.2

6.4. Test Result

These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode.
These requirements do not apply for equipment with a maximum declared RF Output power of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.
No applicable.

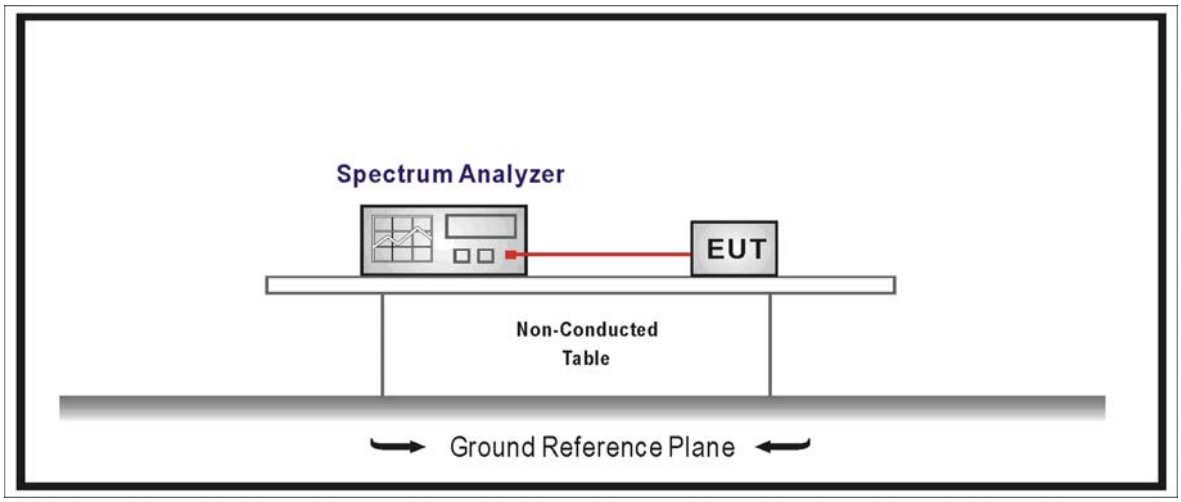
7. MEDIUM UTILISATION (MU) FACTOR

7.1. Limit

For non-adaptive equipment

The maximum Medium Utilisation factor for non-adaptive Frequency Hopping equipment shall be 10 %.

7.2. Test Setup



7.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.2

7.4. Test Result

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.
In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.
No applicable.

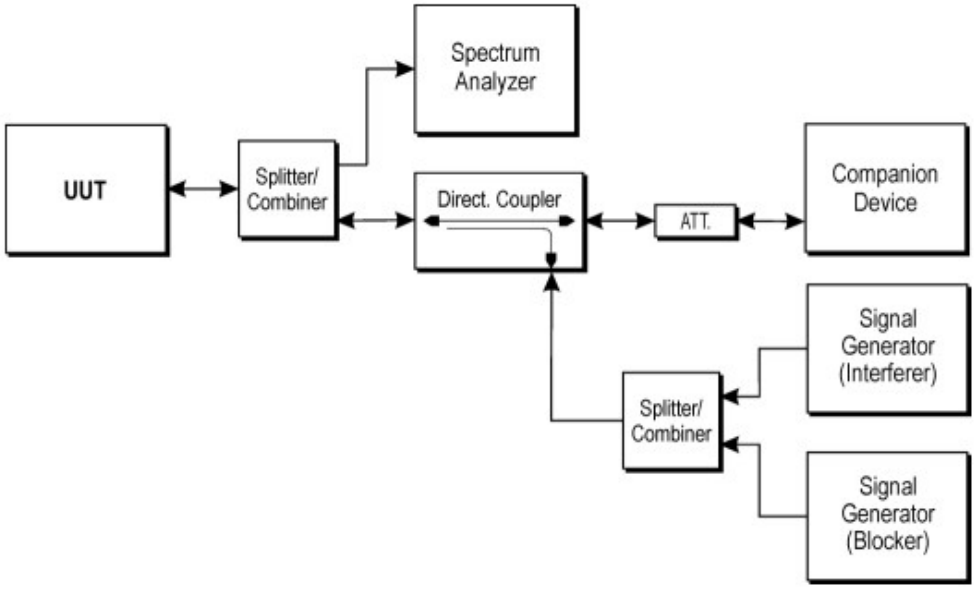
8. ADAPTIVITY AND RECEIVER BLOCKING

8.1. Limit

Adaptivity Limit
☐ Non-LBT based Detect and Avoid --- The channel shall remain unavailable for a minimum time equal to 1 s after which the channel may be considered again as an 'available' channel; --- COT ≤ 40 ms; --- COT ≤ 60 ms; --- Idle Period shall be minimum 5% of COT with a minimum of 100us; --- Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☐ LBT based Detect and Avoid(Frame Based Equipment) --- The CCA observation time shall be not less than 20 us; --- The CCA time used by the equipment shall be declared by the supplier; --- COT = 1-10 ms; --- Idle Period = 5% of COT; --- Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☒ LBT based Detect and Avoid(Load Based Equipment) --- The CCA observation time shall be not less than 20 us; --- The CCA time used by the equipment shall be declared by the supplier; --- COT ≤ (13 / 32) * q ms; q = [4~32]; 1.625ms~13ms; --- R = number of clear idle slots are randomly [1~q]. Every time an Extended CCA is required and the 'R' value stored in a counter. --- Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☐ Short Control Signalling Transmissions: --- Short Control Signalling Transmissions shall have a maximum duty cycle of 10% within an observation period of 50ms.

8.2. Test Setup

Conducted measurements



8.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.7

1) The EUT connect to a companion device during the test. Adjust the received signal level at the EUT to the value defined in table 6 of ETSI EN 300 328 V2.1.1 Clause 4.3.2.10.2
2) the analyzer shall be set as below: RBW=8MHz and VBW=28MHz.
3) Configure the EUT for normal transmission with a sufficiently high payload to allow demonstration of compliance of the adaptive mechanism on the channel being tested.
4) Adding the interference signal and blocking signal.
5) Record the data.

8.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

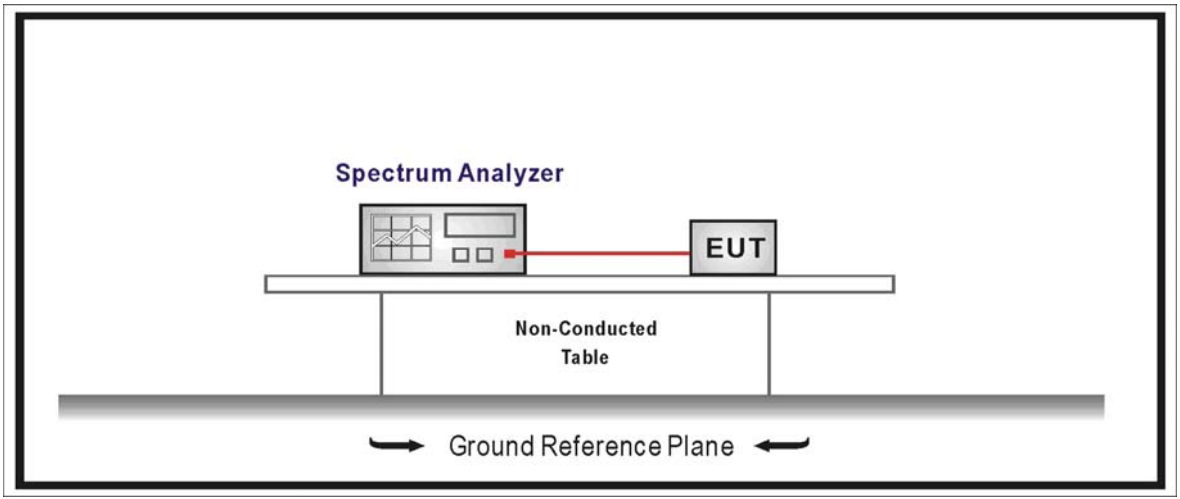
9. OCCUPIED CHANNEL BANDWIDTH

9.1. Limit

The Occupied Channel Bandwidth shall fall completely within the band given in 2.4GHz to 2.4835GHz.

In addition, for non-adaptive systems using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

9.2. Test Setup



9.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.8

Step 1:

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

• Centre Frequency: The centre frequency of the channel under test

• Resolution BW: ~ 1 % of the span without going below 1 %

(we set RBW=400KHz for 802.11b/g/n20 and 820KHz for 802.11n40)

• Video BW: 3 × RBW (we set VBW=1.2MHz for 802.11b/g/n20 and 2.4MHz for 802.11n40)

• Frequency Span: 2 × Occupied Channel Bandwidth

(we set Span=40MHz(for 802.11b/g/n20) & 80MHz(for 802.11n40))

• Detector Mode: RMS

• Trace Mode: Max Hold

Step 2:

Wait until the trace is completed. Find the peak value of the trace and place the analyzer marker on this peak.

Step 3:

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

9.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

10. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

10.1. Limit

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure 3.

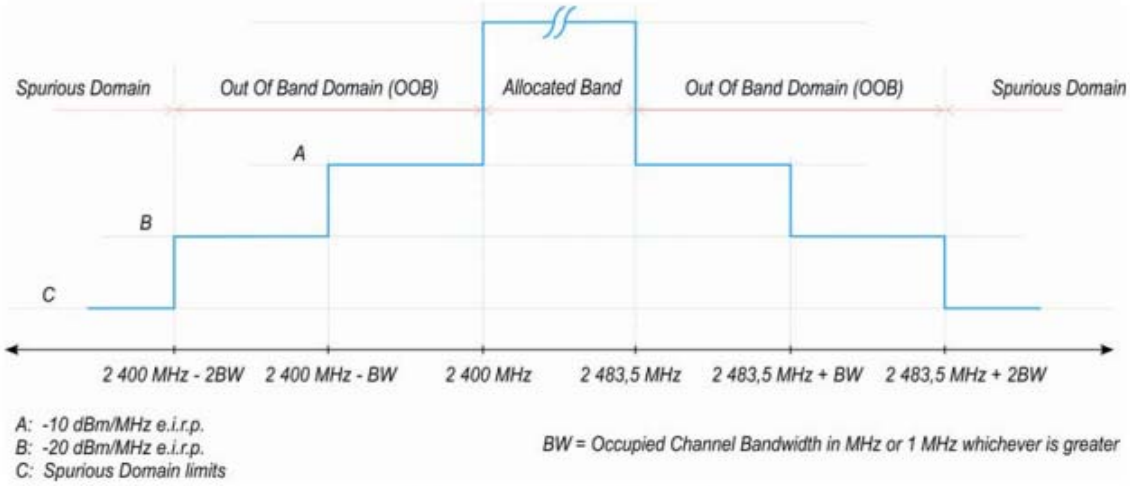
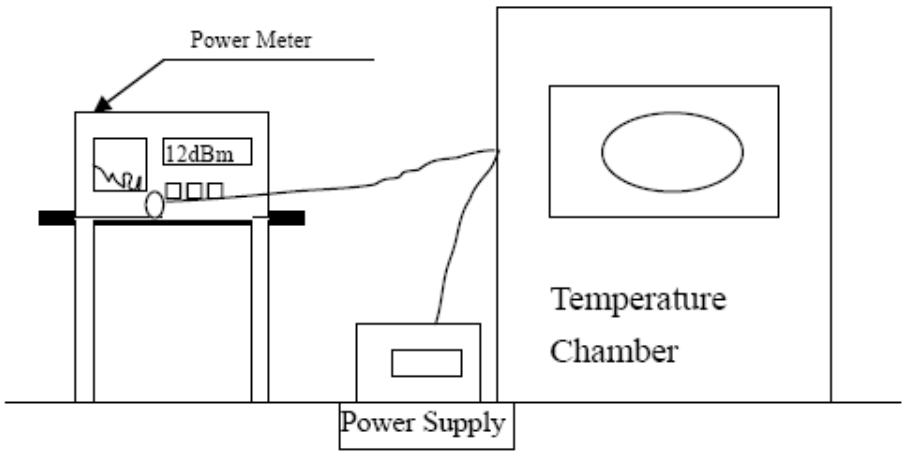


Figure 3: Transmit mask

10.2. Test Setup

For Conducted Measurement



10.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.9

Step 1:

• Connect the UUT to the spectrum analyzer and use the following settings:
- Centre Frequency: 2 484 MHz
- Span: 0 Hz
- Resolution BW: 1 MHz
- Filter mode: Channel filter
- Video BW: 3 MHz
- Detector Mode: RMS
- Trace Mode: Clear / Write
- Sweep Mode: Continuous
- Sweep Points: 5 000
- Trigger Mode: Video trigger

NOTE 1: In case video triggering is not possible, an external trigger source may be used.

- Sweep Time: Suitable to capture one transmission burst

Step 2: (segment 2 483,5 MHz to 2 483,5 MHz + BW)

• Adjust the trigger level to select the transmissions with the highest power level.

• For frequency hopping equipment operating in a normal hopping mode, the different hops will result in signal bursts with different power levels. In this case the burst with the highest power level shall be selected.

• Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function.

• Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483,5 MHz to 2 484,5 MHz). Compare this value with the applicable limit provided by the mask.

• Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1 MHz segment within the range 2 483,5 MHz to 2 483,5 MHz + BW. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 3: (segment 2 483,5 MHz + BW to 2 483,5 MHz + 2BW)

• Change the centre frequency of the analyzer to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483,5 MHz + BW to 2 483,5 MHz + 2BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + 2 BW - 0,5 MHz.

Step 4: (segment 2 400 MHz - BW to 2 400 MHz)

• Change the centre frequency of the analyzer to 2 399,5 MHz and perform the measurement for the first 1 MHz segment within range 2 400 MHz - BW to 2 400 MHz Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz.

Step 5: (segment 2 400 MHz - 2BW to 2 400 MHz - BW)

• Change the centre frequency of the analyzer to 2 399,5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz.

Step 6:

• In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain "G" in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits provided by the mask given in figures 1 or 3. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.

• In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the measurements need to be repeated for each of the active transmit chains. The declared antenna assembly gain "G" in dBi for a single antenna shall be added to these results. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered. Comparison with the applicable limits shall be done using any of the options given below:

- Option 1: the results for each of the transmit chains for the corresponding 1 MHz segments shall be added. The additional beamforming gain "Y" in dB shall be added as well and the resulting values compared with the limits provided by the mask given in figures 1 or 3.
- Option 2: the limits provided by the mask given in figures 1 or 3 shall be reduced by 10 x log10(Ach) and the additional beamforming gain "Y" in dB. The results for each of the transmit chains shall be individually compared with these reduced limits.

NOTE 2: Ach refers to the number of active transmit chains.

It shall be recorded whether the equipment complies with the mask provided in figures 1 or 3.

10.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

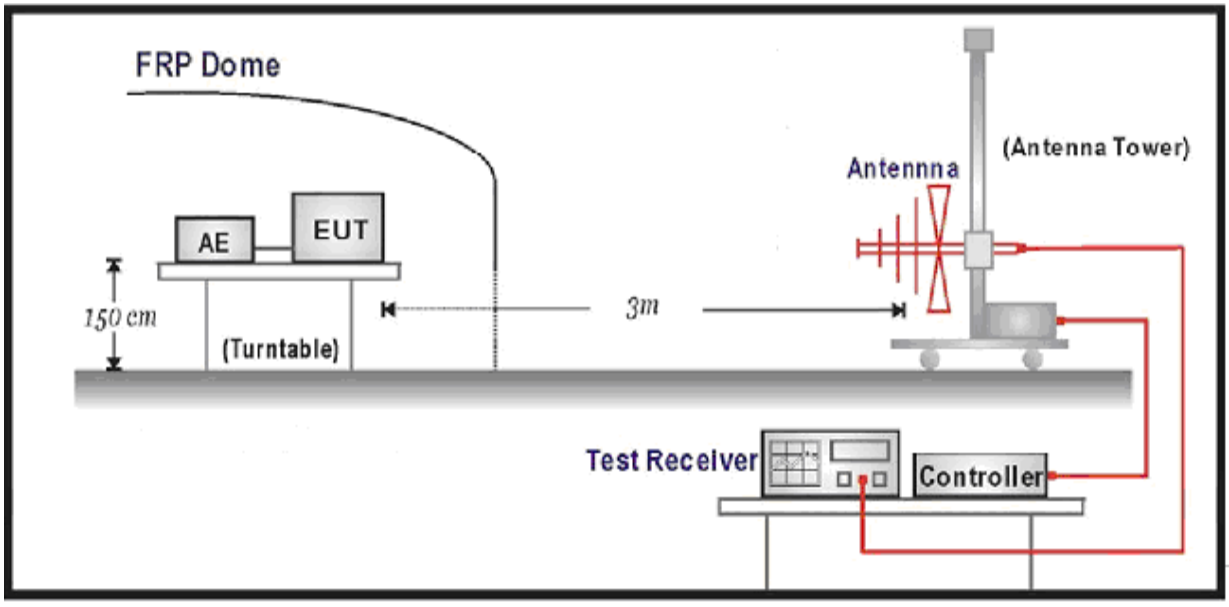
11. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

11.1. Limit

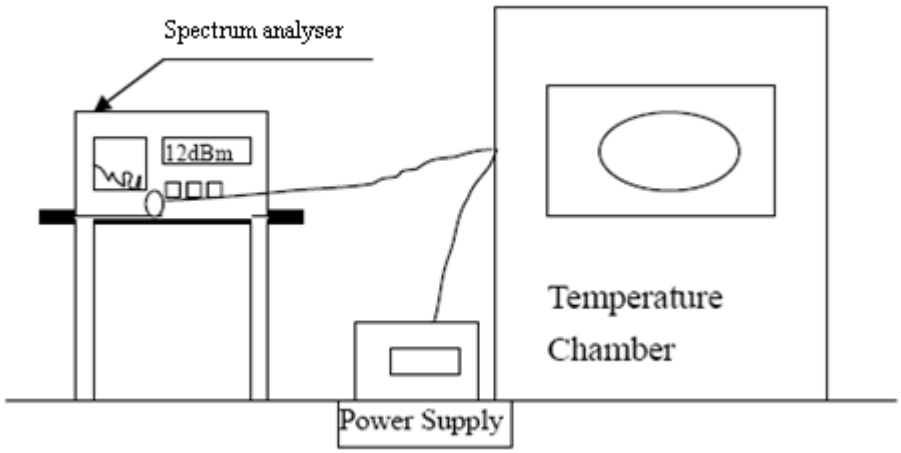
Transmitter Limits for Spurious Emissions		
Frequency Range	Maximum power E.R.P. (≤ 1GHz) E.I.R.P. (> 1GHz)	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 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 12,75 GHz	-30 dBm	1 MHz

11.2. Test Setup

For Radiated Measurement



For Conducted Measurement



11.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.10

Step 1:

The sensitivity of the spectrum analyzer should be such that the noise floor is at least 12 dB below the limits given in tables 1 or 4.

Step 2:

The emissions over the range 30 MHz to 1 000 MHz shall be identified.

Spectrum analyzer settings:

• Resolution bandwidth: 100 kHz

• Video bandwidth: 300 kHz

• Detector mode: Peak

• Trace Mode: Max Hold

• Sweep Points: ≥ 9 970

NOTE 1: For spectrum analyzers not supporting this high number of sweep points, the frequency band may need to be segmented.

• Sweep time: For non continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long, such that for each 100 kHz frequency step, the measurement time is greater than two transmissions of the UUT. For Frequency Hopping equipment operating in a normal operating (hopping not disabled) mode, the sweep time shall be further increased to capture multiple transmissions on the same hopping frequency in different hopping sequences. Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.3.10.2.1.2 and compared to the limits given in tables 1 or 4.

Step 3:

The emissions over the range 1 GHz to 12,75 GHz shall be identified.

Spectrum analyzer settings:

• Resolution bandwidth: 1 MHz

• Video bandwidth: 3 MHz

• Detector mode: Peak

• Trace Mode: Max Hold

• Sweep Points: ≥ 11 750

NOTE 2: For spectrum analyzers not supporting this high number of sweep points, the frequency band may need to be segmented.

• Sweep time: For non continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long, such that for each 1 MHz frequency step, the measurement time is greater than two transmissions of the UUT.

11.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

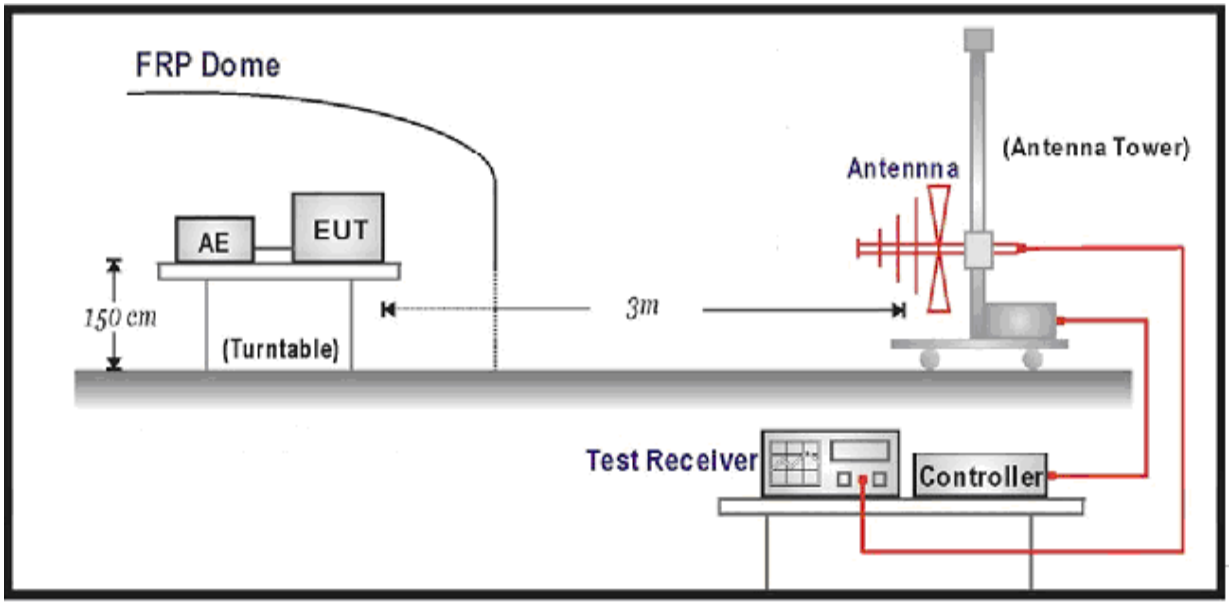
12. RECEIVER SPURIOUS EMISSIONS

12.1. Limit

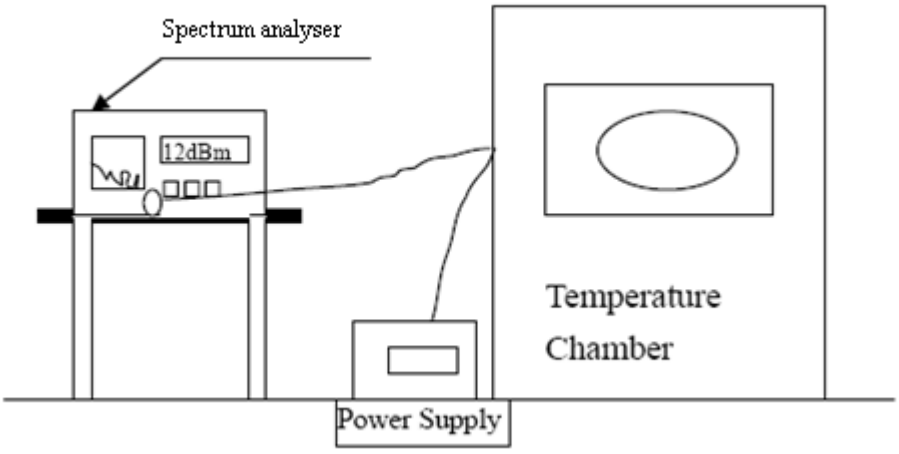
Spurious emissions limits for receivers		
Frequency Range	Maximum power E.R.P. (≤ 1GHz) E.I.R.P. (> 1GHz)	Measurement bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

12.2. Test Setup

For Radiated Measurement



For Conducted Measurement



12.3. Test Procedure

Refer to ETSI EN 300 328 V2.1.1 (2016-11) Clause 5.4.11

Step 1:

The sensitivity of the spectrum analyzer should be such that the noise floor is at least 12 dB below the limits given in tables 2 or 5.

Step 2:

The emissions over the range 30 MHz to 1 000 MHz shall be identified.

Spectrum analyzer settings:

• Resolution bandwidth: 100 kHz
• Video bandwidth: 300 kHz
• Detector mode: Peak
• Trace Mode: Max Hold
• Sweep Points: ≥ 9 970
• Sweep time: Auto

Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.3.11.2.1.2 and compared to the limits given in tables 2 or 5.

Step 3:

The emissions over the range 1 GHz to 12,75 GHz shall be identified.

Spectrum analyzer settings:

• Resolution bandwidth: 1 MHz
• Video bandwidth: 3 MHz
• Detector mode: Peak
• Trace Mode: Max Hold
• Sweep Points: ≥ 11 750
• Sweep time: Auto

Allow the trace to stabilize. Any emissions identified during the sweeps above that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.3.11.2.1.2 and compared to the limits given in tables 2 or 5. Frequency Hopping equipment may generate a block (or several blocks) of spurious emissions anywhere within the spurious domain. If this is the case, only the highest peak of each block of emissions shall be measured using the procedure in clause 5.3.11.2.1.2.

Step 4:

• In case of conducted measurements on smart antenna systems (equipment with multiple receive chains), the steps 2 and 3 need to be repeated for each of the active receive chains (Ach).The limits used to identify emissions during this pre-scan need to be reduced with 10 × log10 (Ach) (number of active receive chains)

12.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

13. RECEIVER BLOCKING

13.1. Limit

Adaptive Frequency Hopping equipment shall comply with the requirements defined in clause 4.3.1.12.4

Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

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	2 380 2 503,5	-53	CW
P_{min} + 6 dB	2 300 2 330 2 360	-47	CW
P_{min} + 6 dB	2 523,5 2 553,5 2 583,5 2 613,5 2 643,5 2 673,5	-47	CW
NOTE 1: P_{min} is the minimum level of wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 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 levels have to be corrected by the actual antenna assembly gain.			

Table 7: Receiver Blocking parameters receiver category 2 equipment

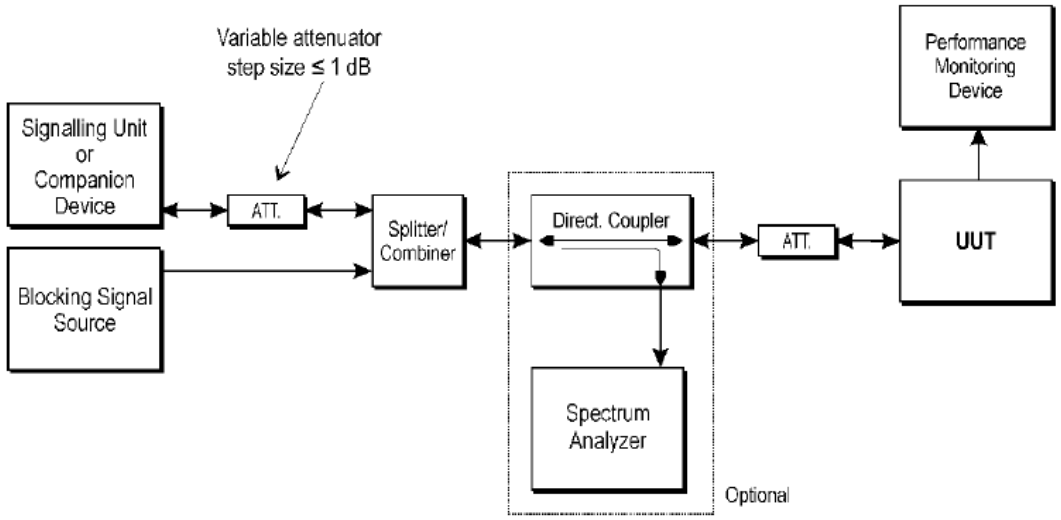
Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal
P_{min} + 6 dB	2 380 2 503,5	-57	CW
P_{min} + 6 dB	2 300 2 583,5	-47	CW
NOTE 1: P_{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 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 levels have to be corrected by the actual antenna assembly gain.			

Table 8: Receiver Blocking parameters receiver category 3 equipment

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} + 12 dB	2 380 2 503,5	-57	CW
P_{min} + 12 dB	2 300 2 583,5	-47	CW
NOTE 1: P_{min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 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 levels have to be corrected by the actual antenna assembly gain.			

13.2. Test Setup

Conducted measurements



13.3. Test Procedure

Step 1:

• For non-frequency hopping equipment, the UUT shall be set to the lowest operating channel.

Step 2:

• The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.

Step 3:

• With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6. The attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still met. The resulting level for the wanted signal at the input of the UUT is Pmin.

• This signal level (Pmin) is increased by the value provided in the table corresponding to the receiver category and type of equipment.

Step 4:

• The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment. It shall be verified and recorded in the test report that the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is met.

Step 5:

• Repeat step 4 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment.

Step 6:

• For non-frequency hopping equipment, repeat step 2 to step 5 with the UUT operating at the highest operating channel.

13.4. Test Result

Please refer to the Appendix for 2.4G WIFI RF Test Data

14. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	X-series USB Peak and Average Power Sensor Agilent	Agilent	U2021XA	MY54080022	2018-10-25	2019-10-24
2	4 CH. Simultaneous Sampling 14 Bits 2MS/s	Agilent	U2531A	MY54080016	2018-10-25	2019-10-24
3	Test Software	Ascentest	AT890-SW	20160630	N/A	N/A
4	RF Control Unit	Ascentest	AT890-RFB	N/A	2019-06-11	2020-06-10
5	MXA Signal Analyzer	Agilent	N9020A	MY49061051	2019-06-11	2020-06-10
6	DC Power Supply	Agilent	E3642A	N/A	2018-11-15	2019-11-14
7	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2019-06-11	2020-06-10
8	ESG Vector Signal Generator	Agilent	E4438C	MY49072627	2019-06-11	2020-06-10
9	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2019-06-11	2020-06-10
10	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2018-10-10	2019-10-09
11	EMI Test Software	AUDIX	E3	/	N/A	N/A
12	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2019-06-12	2020-06-11
13	Positioning Controller	MF	MF-7082	/	2019-06-12	2020-06-11
14	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2019-07-25	2020-07-24
15	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2019-07-25	2020-07-24
16	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2019-07-01	2020-06-30
17	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2018-09-20	2019-09-19
18	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2018-09-20	2019-09-19
19	EMI Test Receiver	R&S	ESR 7	101181	2019-06-12	2020-06-11
20	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2018-11-15	2019-11-14
21	AMPLIFIER	QuieTek	QTK	CHM/0809065	2018-11-15	2019-11-14
22	RF Cable-R03m	Jye Bao	RG142	CB021	2019-06-12	2020-06-11
23	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2019-06-12	2020-06-11
24	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2019-06-11	2020-06-10
25	6dB Attenuator	/	100W/6dB	1172040	2019-06-11	2020-06-10
26	3dB Attenuator	/	2N-3dB	/	2019-06-11	2020-06-10
Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.						

15. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix A for Photographs of Test Setup.

16. EUT EXTERIOR AND INTERIOR PHOTOGRAPHS

Please refer to separated files Appendix B for Photographs of The EUT.

----------THE END OF REPORT----------

Test Report

Product Name: Edge-V

Test Model: Edge-V Max

Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang Chuang

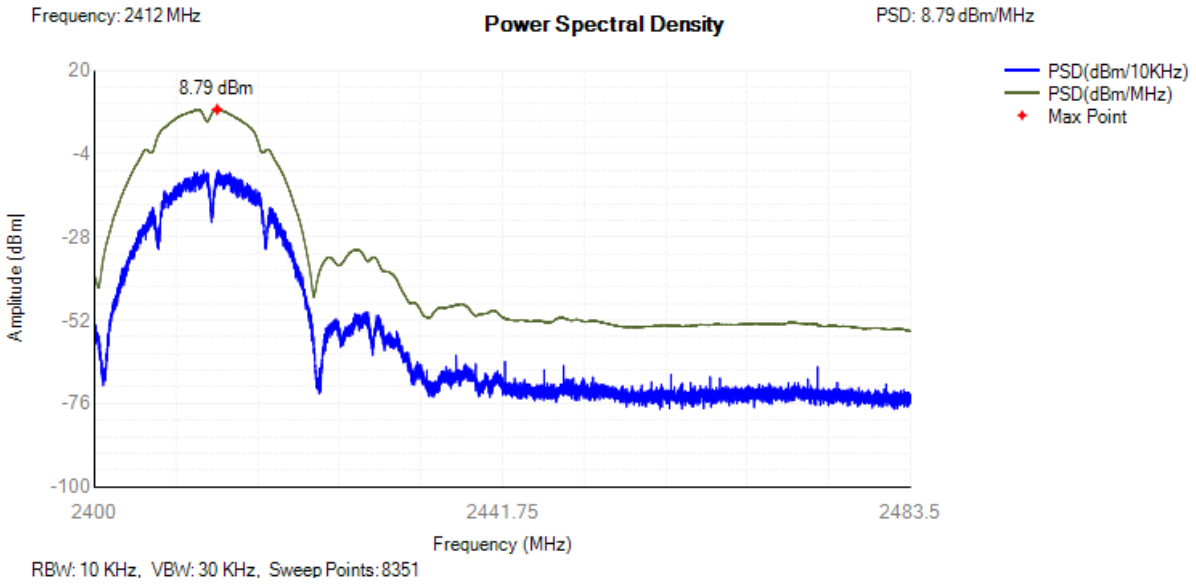
1. RF Output Power

Condition	Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	16.93	13	16.93	20	Pass
NVNT	b	2442	16.64	12	16.64	20	Pass
NVNT	b	2472	16.86	13	16.86	20	Pass
NVNT	g	2412	15.21	15	15.21	20	Pass
NVNT	g	2442	14.83	15	14.83	20	Pass
NVNT	g	2472	14.89	15	14.89	20	Pass
NVNT	n20	2412	15.30	16	15.3	20	Pass
NVNT	n20	2442	14.87	16	14.87	20	Pass
NVNT	n20	2472	14.87	16	14.87	20	Pass
NVNT	n40	2422	15.02	15	15.02	20	Pass
NVNT	n40	2442	14.89	15	14.89	20	Pass
NVNT	n40	2462	15.25	16	15.25	20	Pass

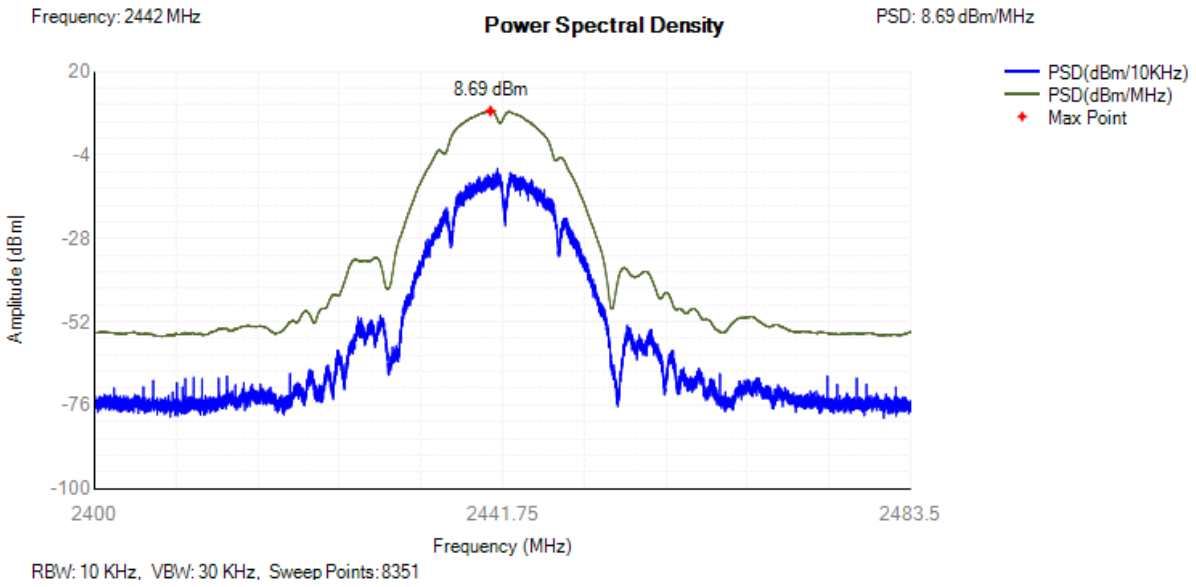
2. Power Spectral Density

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	b	2412	8.79	10	Pass
NVNT	b	2442	8.69	10	Pass
NVNT	b	2472	9.09	10	Pass
NVNT	g	2412	4.06	10	Pass
NVNT	g	2442	4.25	10	Pass
NVNT	g	2472	4.72	10	Pass
NVNT	n20	2412	3.92	10	Pass
NVNT	n20	2442	4.34	10	Pass
NVNT	n20	2472	4.63	10	Pass
NVNT	n40	2422	2.24	10	Pass
NVNT	n40	2442	1.8	10	Pass
NVNT	n40	2462	1.58	10	Pass

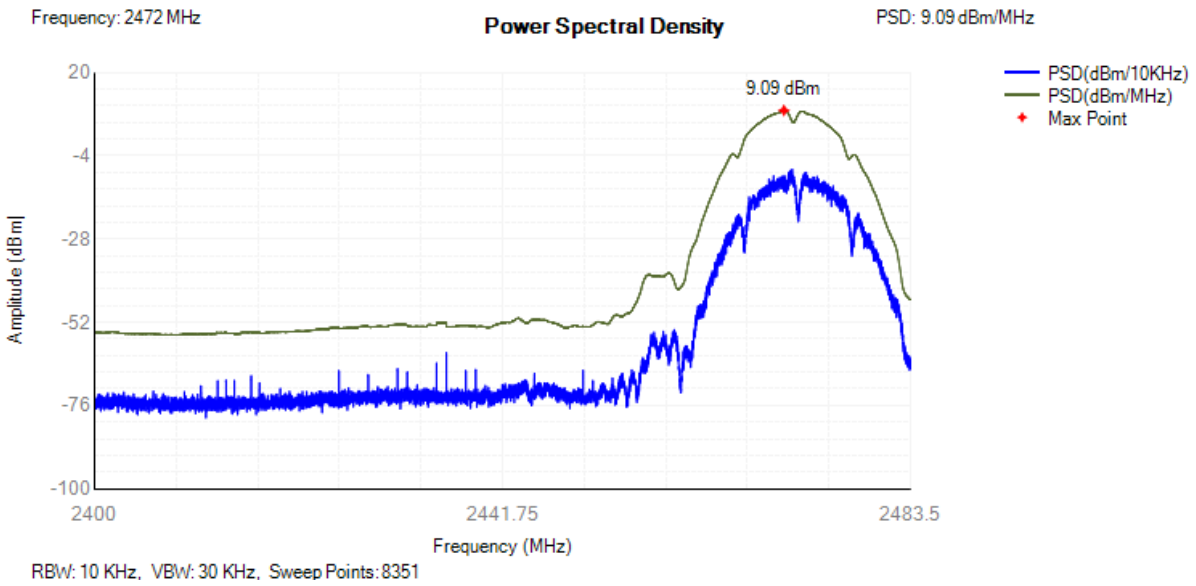
PSD NVNT b 2412MHz



PSD NVNT b 2442MHz



PSD NVNT b 2472MHz



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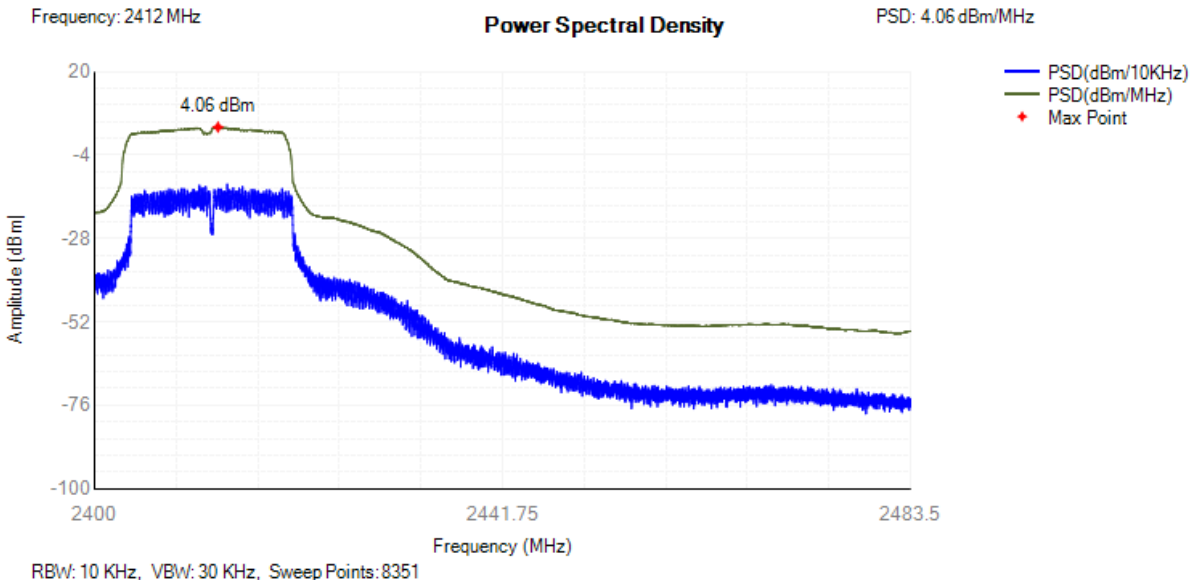

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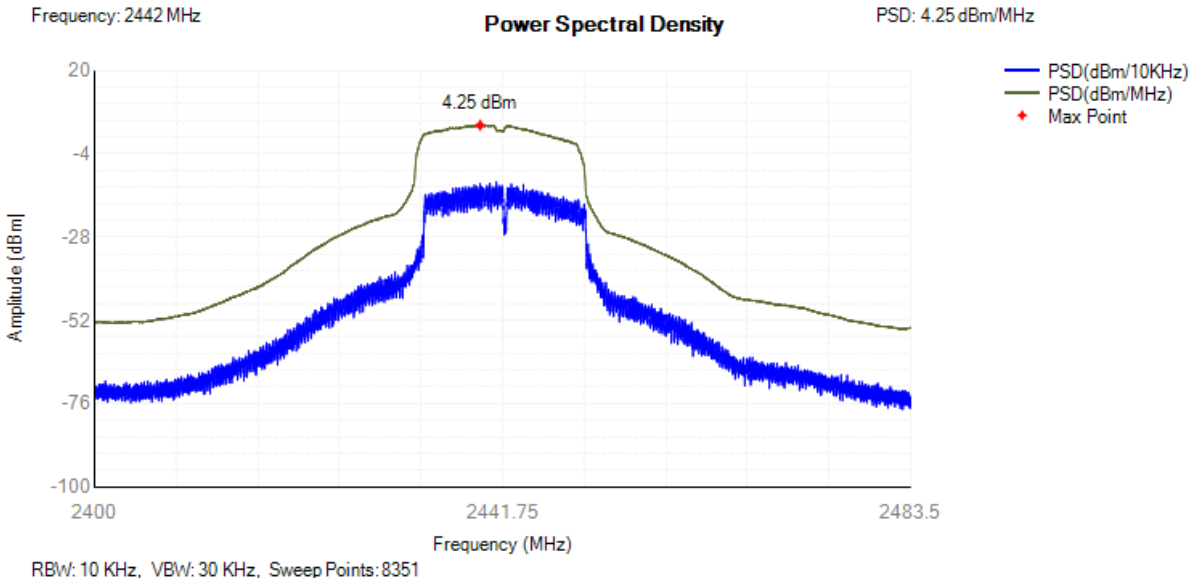

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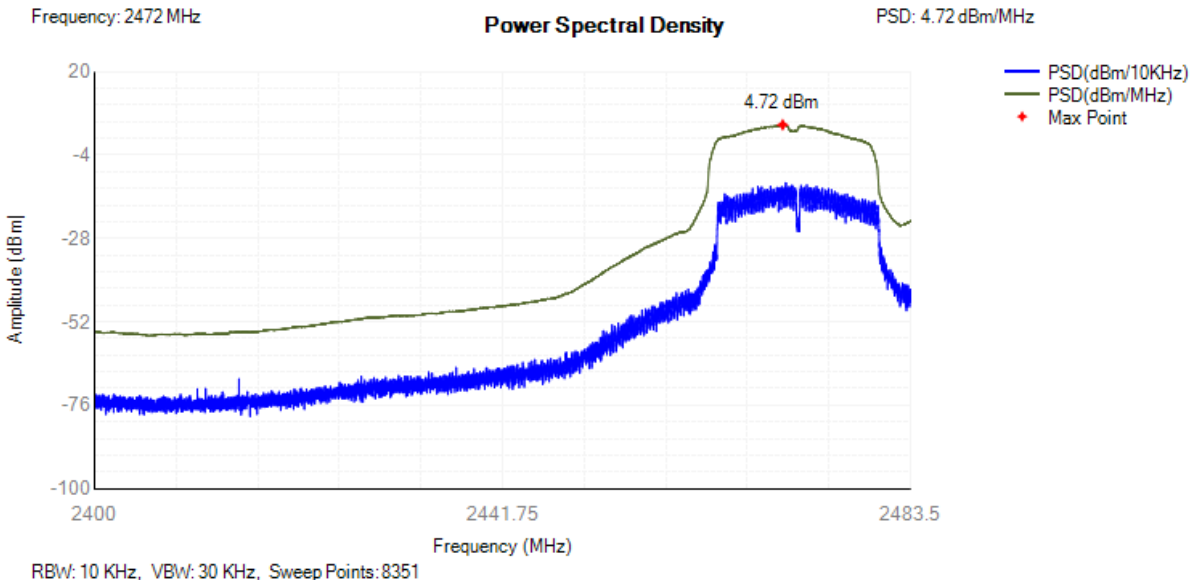
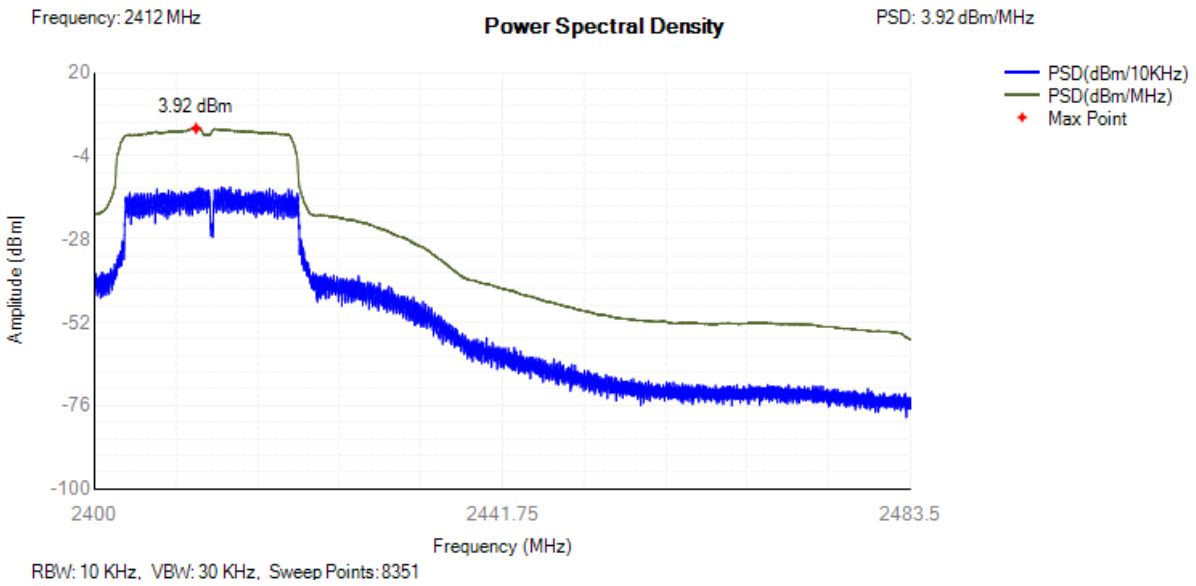


PSD NVNT n20 2412MHz



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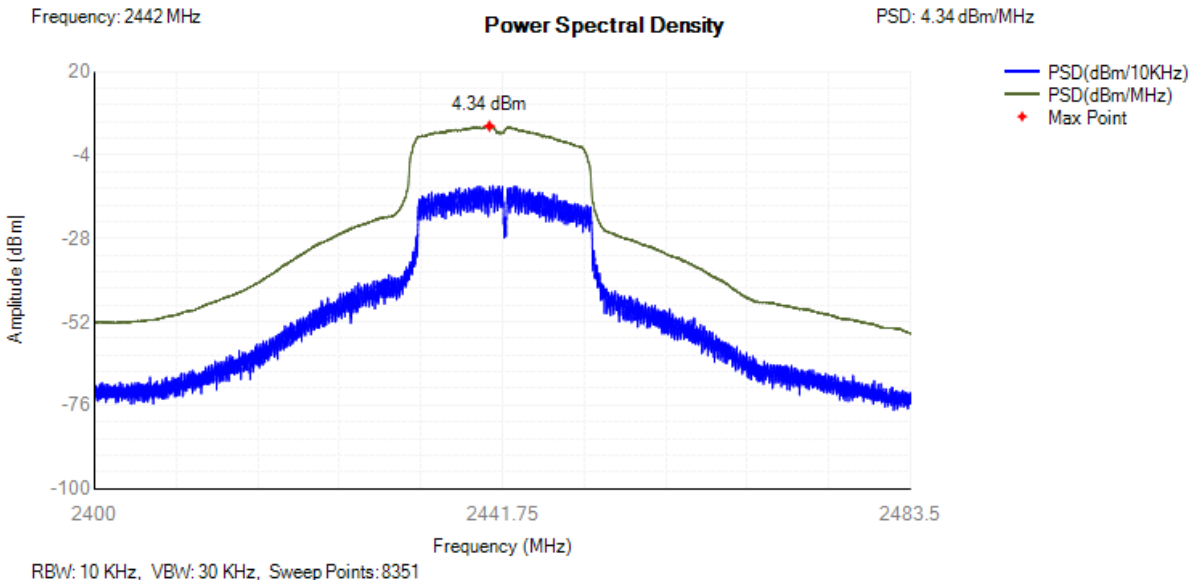

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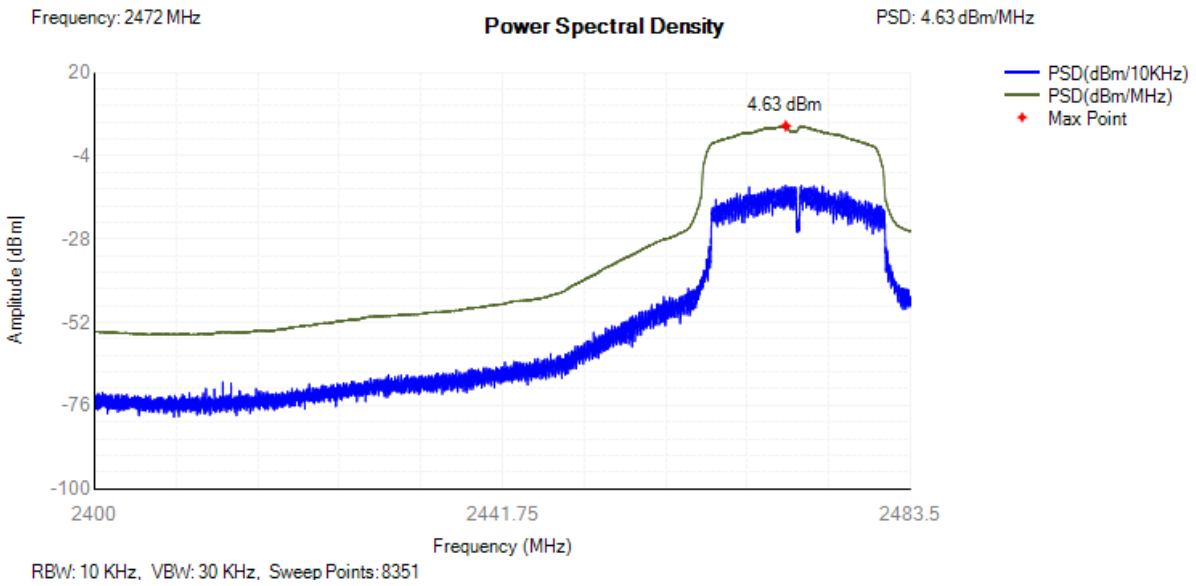
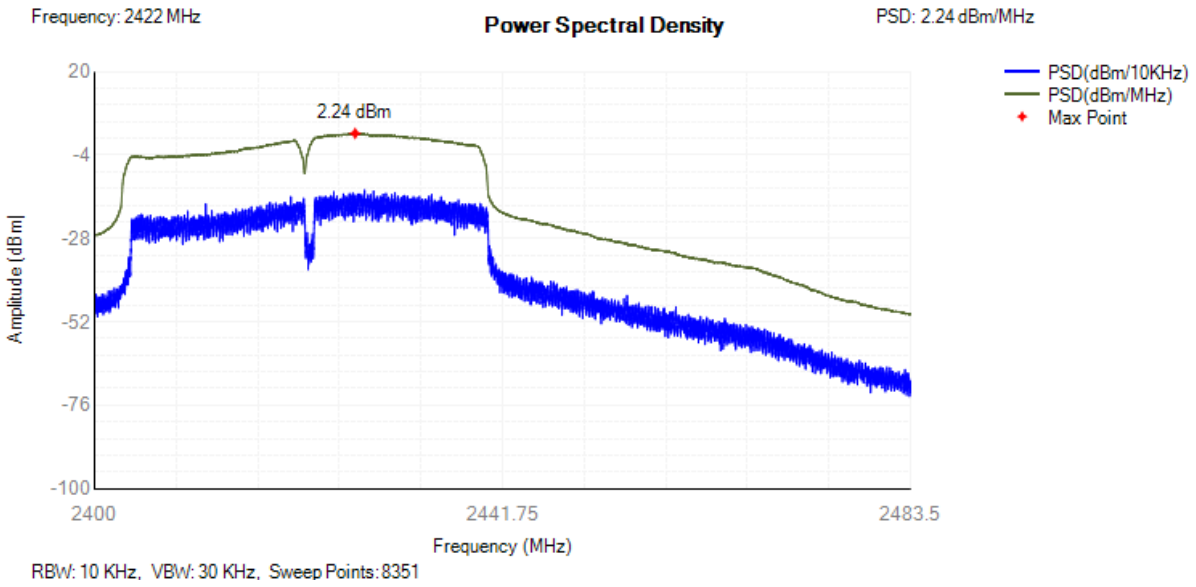
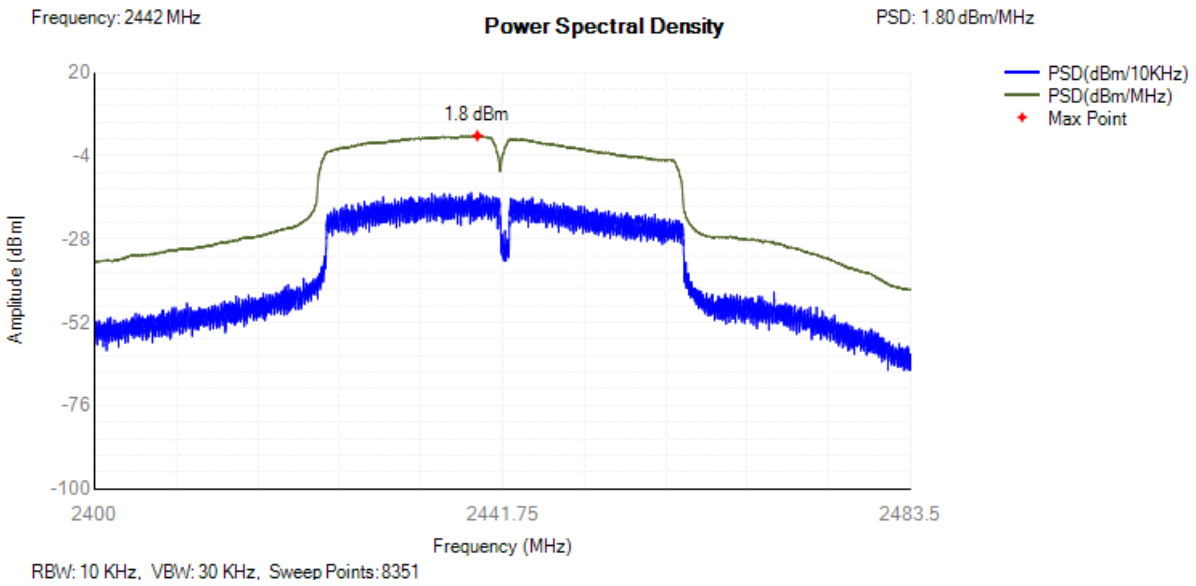


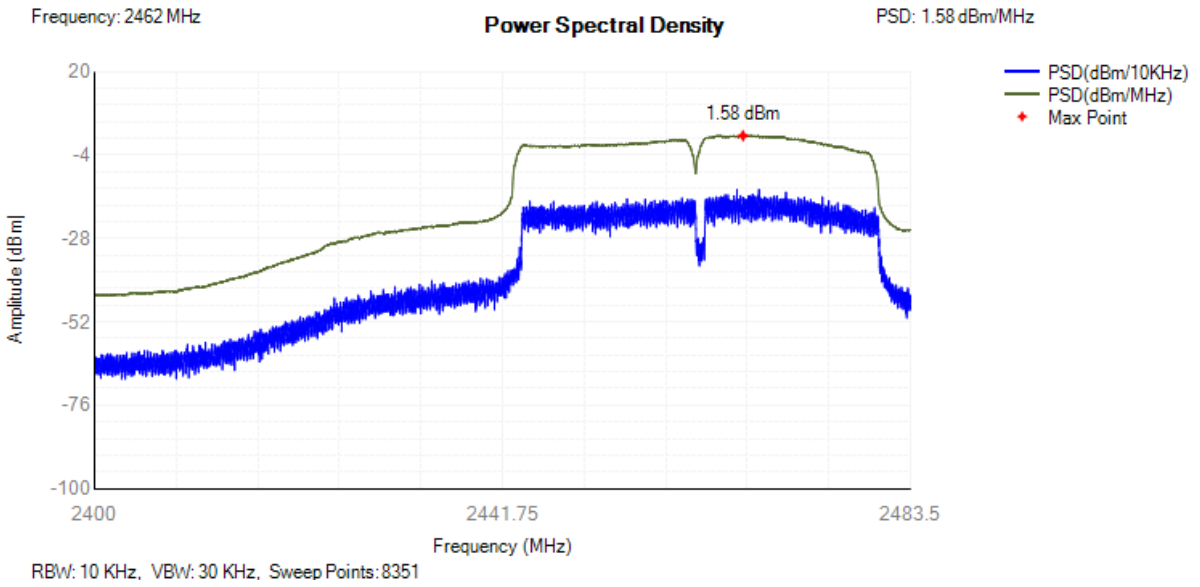
PSD NVNT n40 2422MHz



PSD NVNT n40 2442MHz



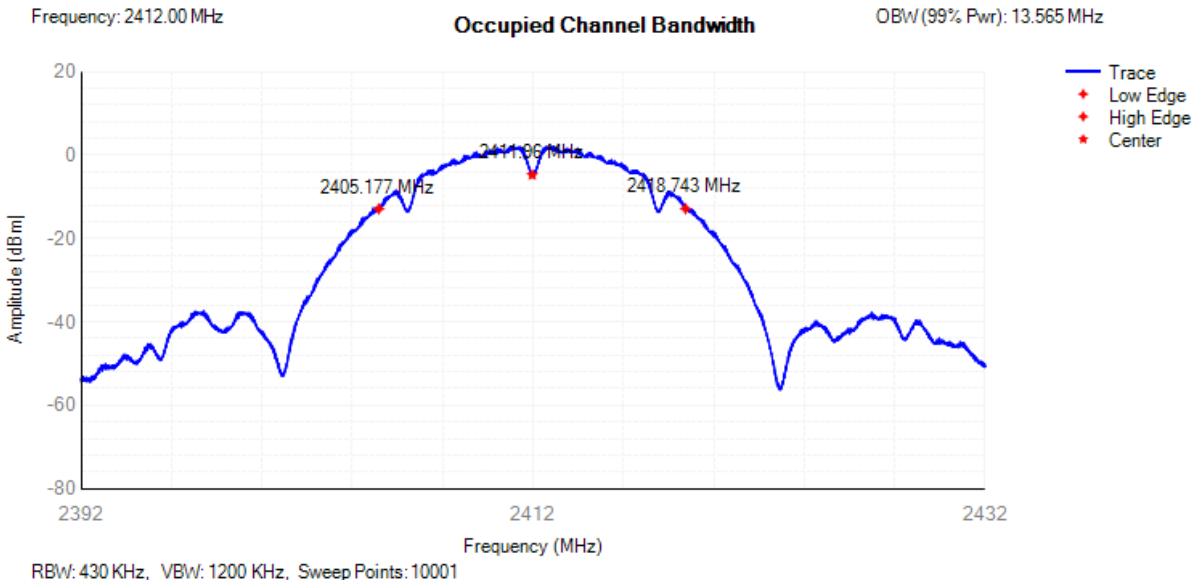
PSD NVNT n40 2462MHz



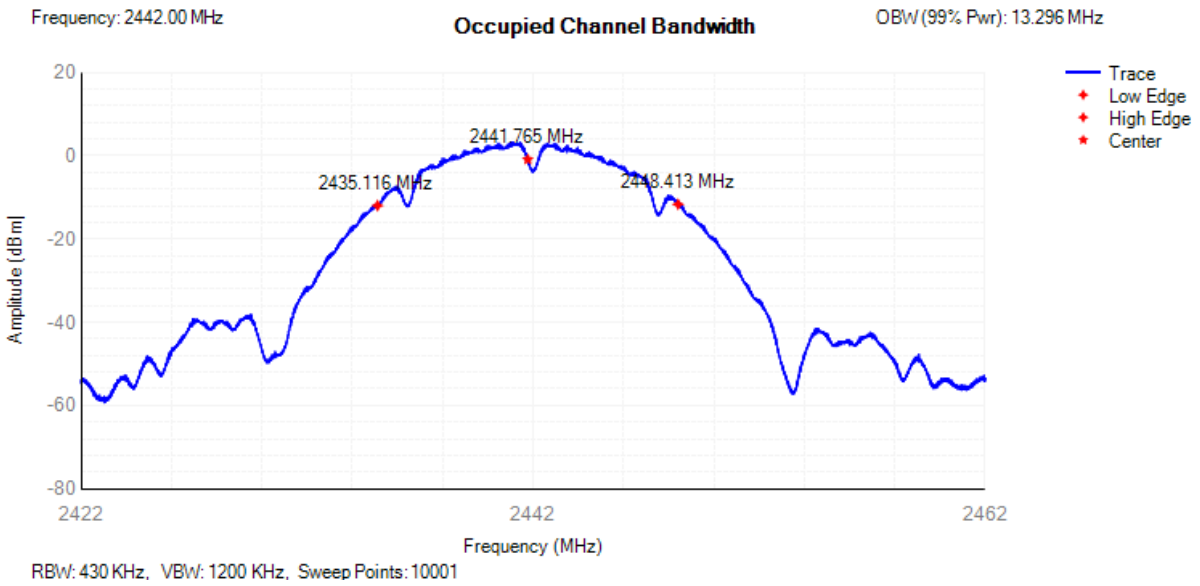
3. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	b	2412	2411.96	13.565	2405.177	2418.743	2400 - 2483.5MHz	Pass
NVNT	b	2442	2441.765	13.296	2435.116	2448.413	2400 - 2483.5MHz	Pass
NVNT	b	2472	2471.997	13.052	2465.47	2478.523	2400 - 2483.5MHz	Pass
NVNT	g	2412	2411.986	16.799	2403.586	2420.386	2400 - 2483.5MHz	Pass
NVNT	g	2442	2441.883	16.516	2433.625	2450.142	2400 - 2483.5MHz	Pass
NVNT	g	2472	2471.972	16.404	2463.769	2480.174	2400 - 2483.5MHz	Pass
NVNT	n20	2412	2411.991	17.977	2403.003	2420.98	2400 - 2483.5MHz	Pass
NVNT	n20	2442	2441.885	17.676	2433.047	2450.723	2400 - 2483.5MHz	Pass
NVNT	n20	2472	2471.967	17.564	2463.185	2480.749	2400 - 2483.5MHz	Pass
NVNT	n40	2422	2422.18	36.234	2404.063	2440.297	2400 - 2483.5MHz	Pass
NVNT	n40	2442	2441.848	35.991	2423.853	2459.844	2400 - 2483.5MHz	Pass
NVNT	n40	2462	2461.821	36.303	2443.67	2479.973	2400 - 2483.5MHz	Pass

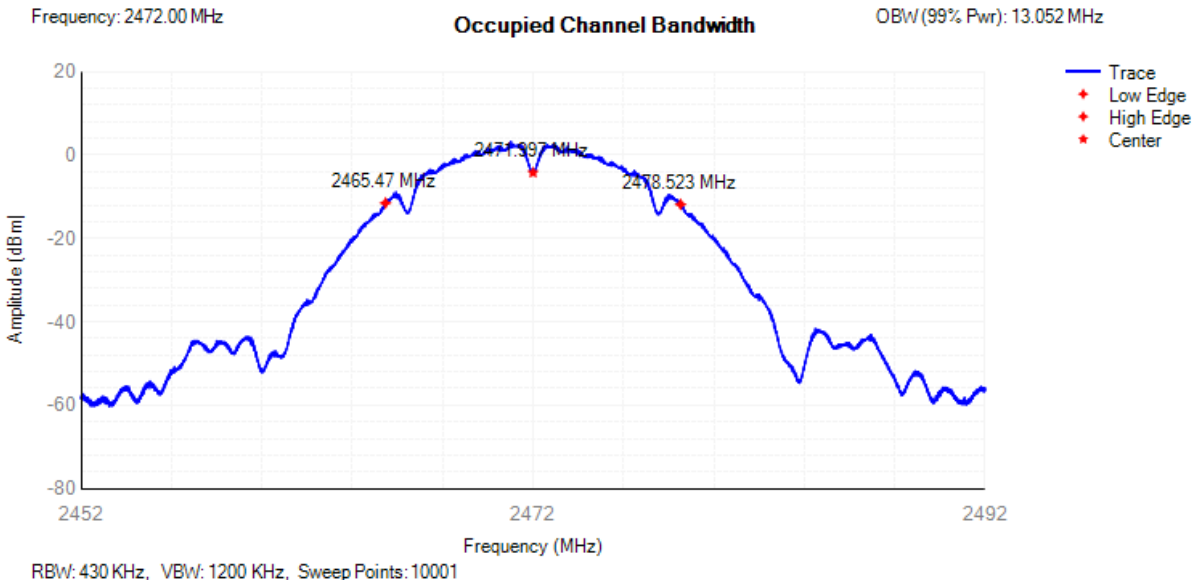
OBW NVNT b 2412MHz



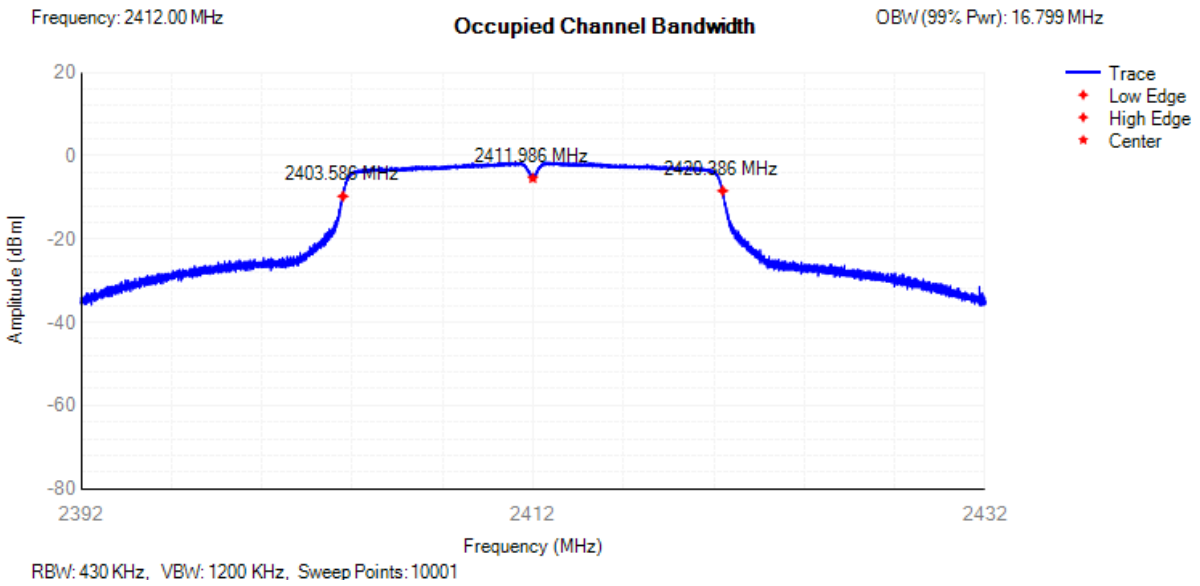
OBW NVNT b 2442MHz



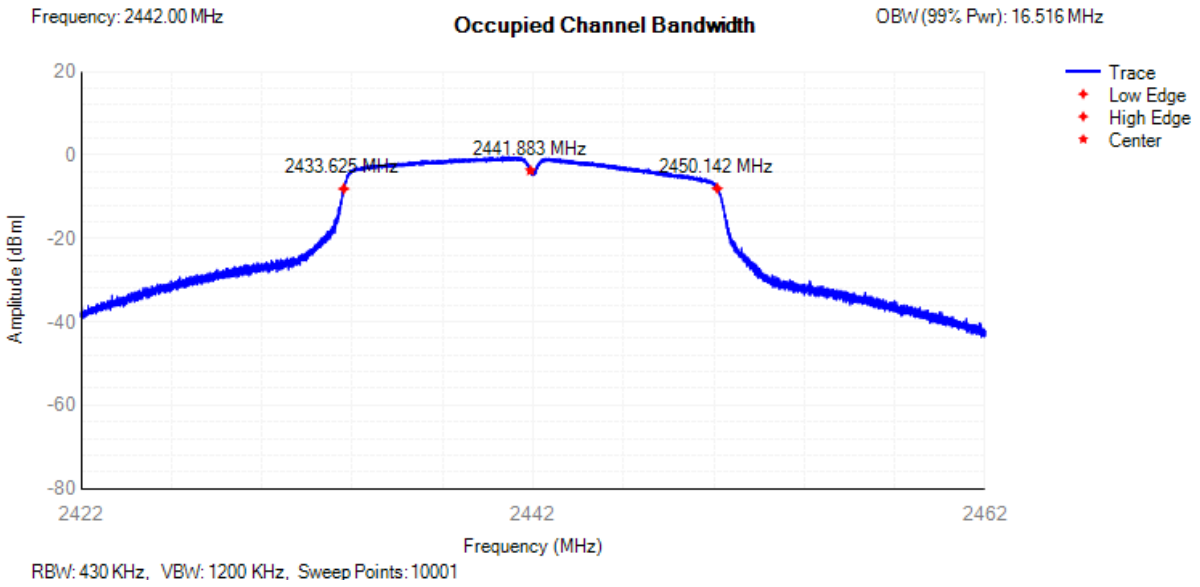
OBW NVNT b 2472MHz



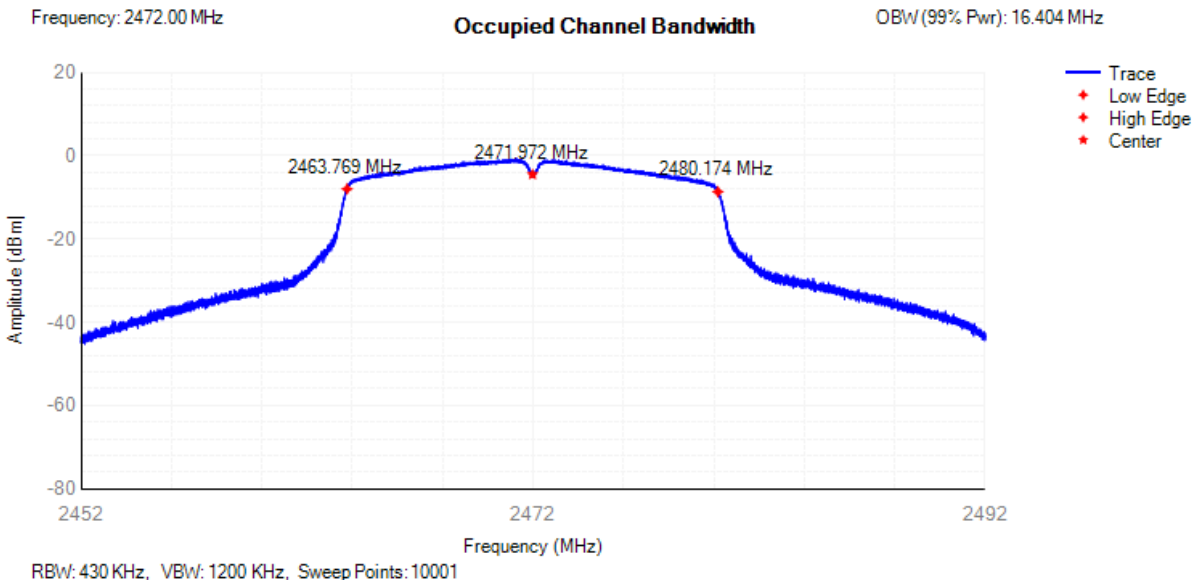
OBW NVNT g 2412MHz



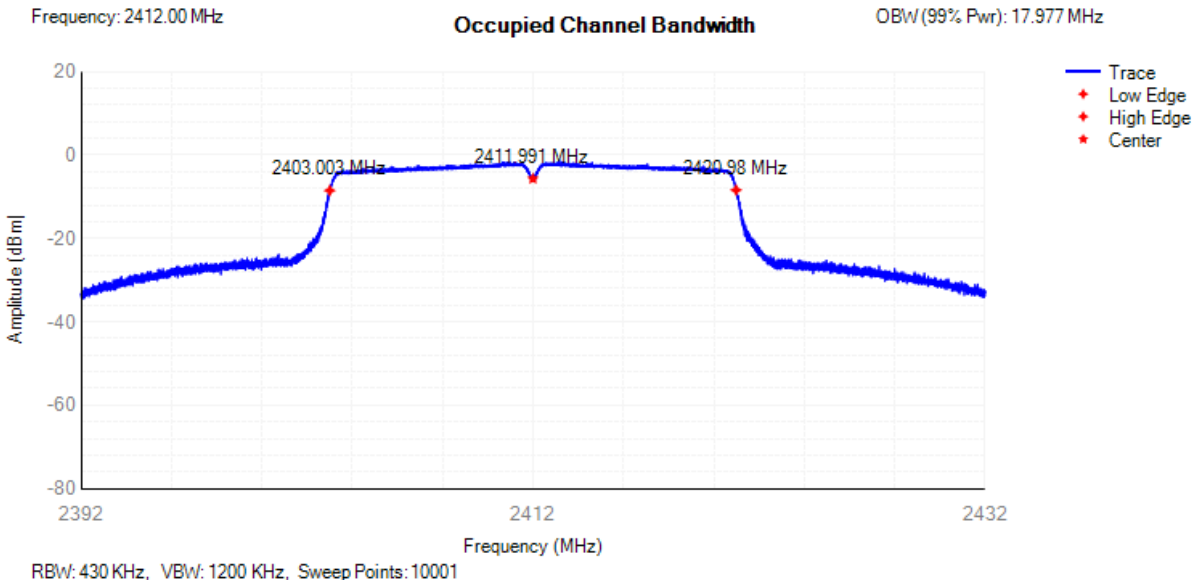
OBW NVNT g 2442MHz



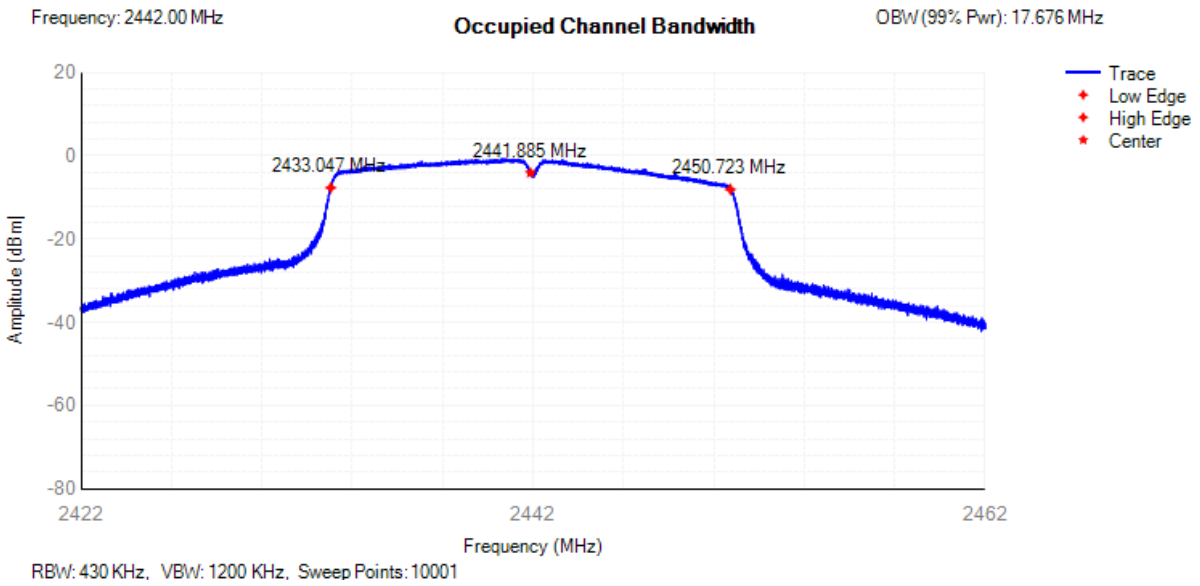
OBW NVNT g 2472MHz



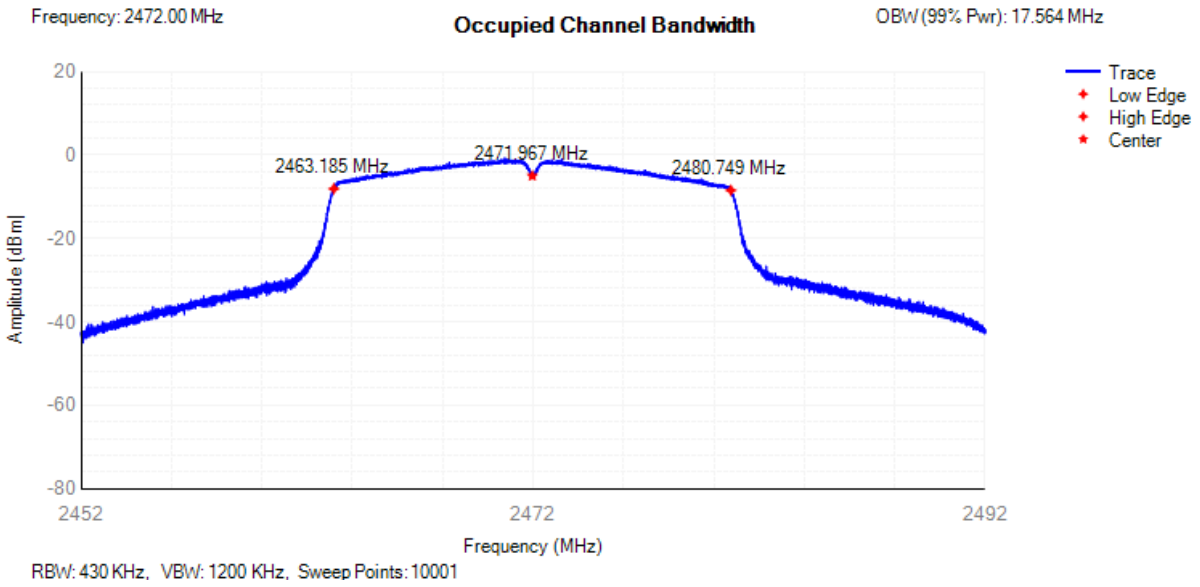
OBW NVNT n20 2412MHz



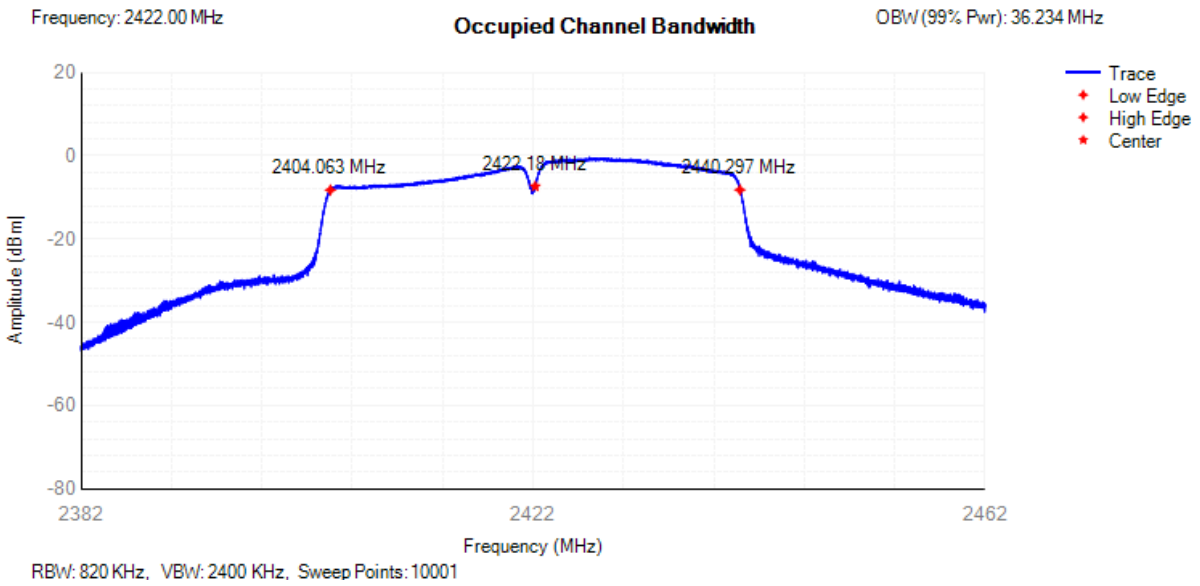
OBW NVNT n20 2442MHz



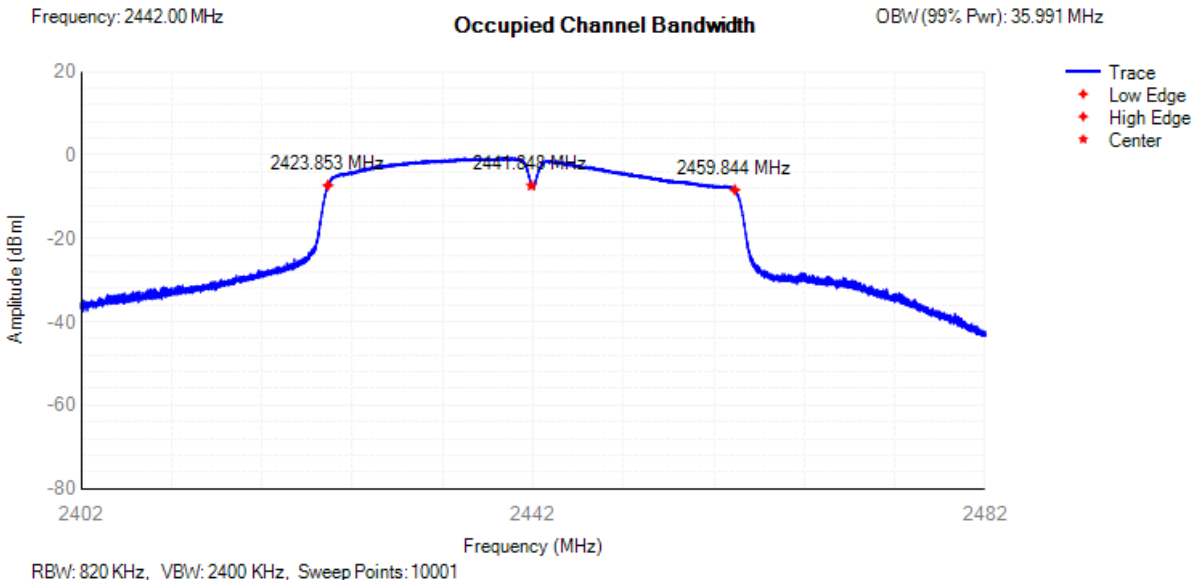
OBW NVNT n20 2472MHz



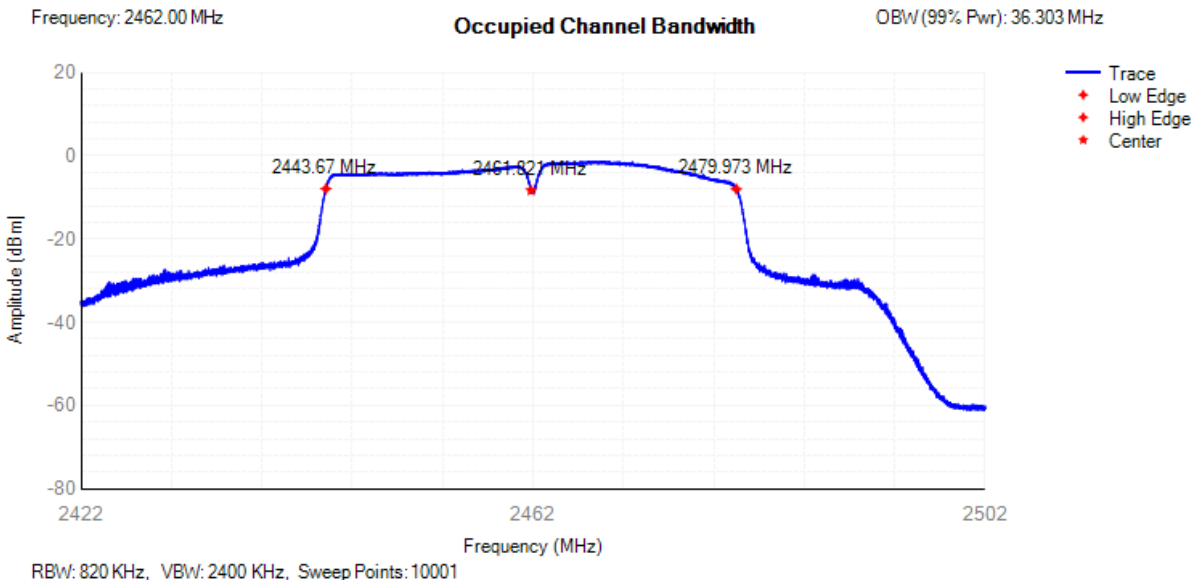
OBW NVNT n40 2422MHz



OBW NVNT n40 2442MHz



OBW NVNT n40 2462MHz



4. Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	b	2412	2399.5	-33.04	-10	Pass
NVNT	b	2412	2398.5	-34.27	-10	Pass
NVNT	b	2412	2397.5	-32.92	-10	Pass
NVNT	b	2412	2396.5	-34.64	-10	Pass
NVNT	b	2412	2395.5	-39.42	-10	Pass
NVNT	b	2412	2394.5	-42.35	-10	Pass
NVNT	b	2412	2393.5	-42.88	-10	Pass
NVNT	b	2412	2392.5	-45.99	-10	Pass
NVNT	b	2412	2391.5	-50.25	-10	Pass
NVNT	b	2412	2390.5	-55.22	-10	Pass
NVNT	b	2412	2389.5	-56.45	-10	Pass
NVNT	b	2412	2388.5	-54.1	-10	Pass
NVNT	b	2412	2387.5	-53.12	-10	Pass
NVNT	b	2412	2386.935	-52.98	-10	Pass
NVNT	b	2412	2385.935	-52.85	-20	Pass
NVNT	b	2412	2384.935	-54.74	-20	Pass
NVNT	b	2412	2383.935	-56.16	-20	Pass
NVNT	b	2412	2382.935	-56.79	-20	Pass
NVNT	b	2412	2381.935	-59.47	-20	Pass
NVNT	b	2412	2380.935	-62.31	-20	Pass
NVNT	b	2412	2379.935	-62.84	-20	Pass
NVNT	b	2412	2378.935	-63.84	-20	Pass
NVNT	b	2412	2377.935	-64.13	-20	Pass
NVNT	b	2412	2376.935	-65.01	-20	Pass
NVNT	b	2412	2375.935	-66.04	-20	Pass
NVNT	b	2412	2374.935	-68.73	-20	Pass
NVNT	b	2412	2373.935	-71.43	-20	Pass
NVNT	b	2412	2373.37	-72.16	-20	Pass
NVNT	b	2472	2484	-40.8	-10	Pass
NVNT	b	2472	2485	-38.15	-10	Pass
NVNT	b	2472	2486	-40.29	-10	Pass
NVNT	b	2472	2487	-38.75	-10	Pass
NVNT	b	2472	2488	-46.25	-10	Pass
NVNT	b	2472	2489	-47.05	-10	Pass
NVNT	b	2472	2490	-50.81	-10	Pass
NVNT	b	2472	2491	-53.28	-10	Pass
NVNT	b	2472	2492	-51.25	-10	Pass

NVNT	b	2472	2493	-55.26	-10	Pass
NVNT	b	2472	2494	-61.17	-10	Pass
NVNT	b	2472	2495	-66.16	-10	Pass
NVNT	b	2472	2496	-67.93	-10	Pass
NVNT	b	2472	2496.052	-68.31	-10	Pass
NVNT	b	2472	2497.052	-69.82	-20	Pass
NVNT	b	2472	2498.052	-71.38	-20	Pass
NVNT	b	2472	2499.052	-72.04	-20	Pass
NVNT	b	2472	2500.052	-72.34	-20	Pass
NVNT	b	2472	2501.052	-72.52	-20	Pass
NVNT	b	2472	2502.052	-72.65	-20	Pass
NVNT	b	2472	2503.052	-72.68	-20	Pass
NVNT	b	2472	2504.052	-72.44	-20	Pass
NVNT	b	2472	2505.052	-72.41	-20	Pass
NVNT	b	2472	2506.052	-72.71	-20	Pass
NVNT	b	2472	2507.052	-72.57	-20	Pass
NVNT	b	2472	2508.052	-72.48	-20	Pass
NVNT	b	2472	2509.052	-72.51	-20	Pass
NVNT	b	2472	2509.104	-72.56	-20	Pass
NVNT	g	2412	2399.5	-21.48	-10	Pass
NVNT	g	2412	2398.5	-21.25	-10	Pass
NVNT	g	2412	2397.5	-21.9	-10	Pass
NVNT	g	2412	2396.5	-22.81	-10	Pass
NVNT	g	2412	2395.5	-23.68	-10	Pass
NVNT	g	2412	2394.5	-24.96	-10	Pass
NVNT	g	2412	2393.5	-26.65	-10	Pass
NVNT	g	2412	2392.5	-28.2	-10	Pass
NVNT	g	2412	2391.5	-30.04	-10	Pass
NVNT	g	2412	2390.5	-32.02	-10	Pass
NVNT	g	2412	2389.5	-34.24	-10	Pass
NVNT	g	2412	2388.5	-36.67	-10	Pass
NVNT	g	2412	2387.5	-38.52	-10	Pass
NVNT	g	2412	2386.5	-40.58	-10	Pass
NVNT	g	2412	2385.5	-41.77	-10	Pass
NVNT	g	2412	2384.5	-43.6	-10	Pass
NVNT	g	2412	2383.701	-44.72	-10	Pass
NVNT	g	2412	2382.701	-46.49	-20	Pass
NVNT	g	2412	2381.701	-47.44	-20	Pass
NVNT	g	2412	2380.701	-48.23	-20	Pass
NVNT	g	2412	2379.701	-49.61	-20	Pass
NVNT	g	2412	2378.701	-51.15	-20	Pass

NVNT	g	2412	2377.701	-52.65	-20	Pass
NVNT	g	2412	2376.701	-54.43	-20	Pass
NVNT	g	2412	2375.701	-58.39	-20	Pass
NVNT	g	2412	2374.701	-62.44	-20	Pass
NVNT	g	2412	2373.701	-66.89	-20	Pass
NVNT	g	2412	2372.701	-70.8	-20	Pass
NVNT	g	2412	2371.701	-72.7	-20	Pass
NVNT	g	2412	2370.701	-73.23	-20	Pass
NVNT	g	2412	2369.701	-73.15	-20	Pass
NVNT	g	2412	2368.701	-73.17	-20	Pass
NVNT	g	2412	2367.701	-73.13	-20	Pass
NVNT	g	2412	2366.902	-73.12	-20	Pass
NVNT	g	2472	2484	-25.18	-10	Pass
NVNT	g	2472	2485	-26.28	-10	Pass
NVNT	g	2472	2486	-27.73	-10	Pass
NVNT	g	2472	2487	-28.69	-10	Pass
NVNT	g	2472	2488	-29.77	-10	Pass
NVNT	g	2472	2489	-31.16	-10	Pass
NVNT	g	2472	2490	-32.81	-10	Pass
NVNT	g	2472	2491	-34.09	-10	Pass
NVNT	g	2472	2492	-37.36	-10	Pass
NVNT	g	2472	2493	-41.67	-10	Pass
NVNT	g	2472	2494	-47.4	-10	Pass
NVNT	g	2472	2495	-54.01	-10	Pass
NVNT	g	2472	2496	-60.26	-10	Pass
NVNT	g	2472	2497	-65.15	-10	Pass
NVNT	g	2472	2498	-68.7	-10	Pass
NVNT	g	2472	2499	-71.05	-10	Pass
NVNT	g	2472	2499.404	-71.27	-10	Pass
NVNT	g	2472	2500.404	-71.92	-20	Pass
NVNT	g	2472	2501.404	-71.92	-20	Pass
NVNT	g	2472	2502.404	-72.06	-20	Pass
NVNT	g	2472	2503.404	-71.96	-20	Pass
NVNT	g	2472	2504.404	-72.09	-20	Pass
NVNT	g	2472	2505.404	-72.21	-20	Pass
NVNT	g	2472	2506.404	-72.51	-20	Pass
NVNT	g	2472	2507.404	-72.63	-20	Pass
NVNT	g	2472	2508.404	-72.7	-20	Pass
NVNT	g	2472	2509.404	-72.87	-20	Pass
NVNT	g	2472	2510.404	-72.9	-20	Pass
NVNT	g	2472	2511.404	-73.1	-20	Pass

NVNT	g	2472	2512.404	-73.26	-20	Pass
NVNT	g	2472	2513.404	-73.26	-20	Pass
NVNT	g	2472	2514.404	-73.36	-20	Pass
NVNT	g	2472	2515.404	-73.28	-20	Pass
NVNT	g	2472	2515.808	-73.47	-20	Pass
NVNT	n20	2412	2399.5	-21.72	-10	Pass
NVNT	n20	2412	2398.5	-21.41	-10	Pass
NVNT	n20	2412	2397.5	-21.36	-10	Pass
NVNT	n20	2412	2396.5	-22.56	-10	Pass
NVNT	n20	2412	2395.5	-23.53	-10	Pass
NVNT	n20	2412	2394.5	-24.33	-10	Pass
NVNT	n20	2412	2393.5	-25.6	-10	Pass
NVNT	n20	2412	2392.5	-27.25	-10	Pass
NVNT	n20	2412	2391.5	-28.87	-10	Pass
NVNT	n20	2412	2390.5	-30.98	-10	Pass
NVNT	n20	2412	2389.5	-32.53	-10	Pass
NVNT	n20	2412	2388.5	-34.68	-10	Pass
NVNT	n20	2412	2387.5	-37.25	-10	Pass
NVNT	n20	2412	2386.5	-39.62	-10	Pass
NVNT	n20	2412	2385.5	-41.91	-10	Pass
NVNT	n20	2412	2384.5	-42.62	-10	Pass
NVNT	n20	2412	2383.5	-44.6	-10	Pass
NVNT	n20	2412	2382.523	-45.71	-10	Pass
NVNT	n20	2412	2381.523	-46.65	-20	Pass
NVNT	n20	2412	2380.523	-47.73	-20	Pass
NVNT	n20	2412	2379.523	-48.9	-20	Pass
NVNT	n20	2412	2378.523	-49.87	-20	Pass
NVNT	n20	2412	2377.523	-51.51	-20	Pass
NVNT	n20	2412	2376.523	-53.65	-20	Pass
NVNT	n20	2412	2375.523	-57.98	-20	Pass
NVNT	n20	2412	2374.523	-62.42	-20	Pass
NVNT	n20	2412	2373.523	-67.13	-20	Pass
NVNT	n20	2412	2372.523	-71.08	-20	Pass
NVNT	n20	2412	2371.523	-72.79	-20	Pass
NVNT	n20	2412	2370.523	-73.34	-20	Pass
NVNT	n20	2412	2369.523	-73.49	-20	Pass
NVNT	n20	2412	2368.523	-73.38	-20	Pass
NVNT	n20	2412	2367.523	-73.35	-20	Pass
NVNT	n20	2412	2366.523	-73.3	-20	Pass
NVNT	n20	2412	2365.523	-73.36	-20	Pass
NVNT	n20	2412	2364.546	-73.46	-20	Pass

NVNT	n20	2472	2484	-25.79	-10	Pass
NVNT	n20	2472	2485	-26.38	-10	Pass
NVNT	n20	2472	2486	-27.53	-10	Pass
NVNT	n20	2472	2487	-28.68	-10	Pass
NVNT	n20	2472	2488	-29.69	-10	Pass
NVNT	n20	2472	2489	-30.75	-10	Pass
NVNT	n20	2472	2490	-31.98	-10	Pass
NVNT	n20	2472	2491	-33.39	-10	Pass
NVNT	n20	2472	2492	-35.99	-10	Pass
NVNT	n20	2472	2493	-40.42	-10	Pass
NVNT	n20	2472	2494	-45.94	-10	Pass
NVNT	n20	2472	2495	-51.69	-10	Pass
NVNT	n20	2472	2496	-58.38	-10	Pass
NVNT	n20	2472	2497	-63.97	-10	Pass
NVNT	n20	2472	2498	-68.37	-10	Pass
NVNT	n20	2472	2499	-71.19	-10	Pass
NVNT	n20	2472	2500	-71.64	-10	Pass
NVNT	n20	2472	2500.564	-71.95	-10	Pass
NVNT	n20	2472	2501.564	-71.85	-20	Pass
NVNT	n20	2472	2502.564	-72.11	-20	Pass
NVNT	n20	2472	2503.564	-72.13	-20	Pass
NVNT	n20	2472	2504.564	-72.36	-20	Pass
NVNT	n20	2472	2505.564	-72.56	-20	Pass
NVNT	n20	2472	2506.564	-72.58	-20	Pass
NVNT	n20	2472	2507.564	-72.73	-20	Pass
NVNT	n20	2472	2508.564	-73.11	-20	Pass
NVNT	n20	2472	2509.564	-73.15	-20	Pass
NVNT	n20	2472	2510.564	-73.24	-20	Pass
NVNT	n20	2472	2511.564	-73.19	-20	Pass
NVNT	n20	2472	2512.564	-73.35	-20	Pass
NVNT	n20	2472	2513.564	-73.45	-20	Pass
NVNT	n20	2472	2514.564	-73.43	-20	Pass
NVNT	n20	2472	2515.564	-73.45	-20	Pass
NVNT	n20	2472	2516.564	-73.59	-20	Pass
NVNT	n20	2472	2517.564	-73.6	-20	Pass
NVNT	n20	2472	2518.128	-73.52	-20	Pass
NVNT	n40	2422	2399.5	-26.55	-10	Pass
NVNT	n40	2422	2398.5	-26.69	-10	Pass
NVNT	n40	2422	2397.5	-27.44	-10	Pass
NVNT	n40	2422	2396.5	-27.69	-10	Pass
NVNT	n40	2422	2395.5	-27.97	-10	Pass

NVNT	n40	2422	2394.5	-28.47	-10	Pass
NVNT	n40	2422	2393.5	-29.22	-10	Pass
NVNT	n40	2422	2392.5	-30	-10	Pass
NVNT	n40	2422	2391.5	-30.91	-10	Pass
NVNT	n40	2422	2390.5	-31.97	-10	Pass
NVNT	n40	2422	2389.5	-33.01	-10	Pass
NVNT	n40	2422	2388.5	-34.26	-10	Pass
NVNT	n40	2422	2387.5	-35.8	-10	Pass
NVNT	n40	2422	2386.5	-36.57	-10	Pass
NVNT	n40	2422	2385.5	-37.97	-10	Pass
NVNT	n40	2422	2384.5	-39.43	-10	Pass
NVNT	n40	2422	2383.5	-40.85	-10	Pass
NVNT	n40	2422	2382.5	-42.37	-10	Pass
NVNT	n40	2422	2381.5	-42.89	-10	Pass
NVNT	n40	2422	2380.5	-43.43	-10	Pass
NVNT	n40	2422	2379.5	-44.43	-10	Pass
NVNT	n40	2422	2378.5	-45.56	-10	Pass
NVNT	n40	2422	2377.5	-46.37	-10	Pass
NVNT	n40	2422	2376.5	-48.45	-10	Pass
NVNT	n40	2422	2375.5	-51.8	-10	Pass
NVNT	n40	2422	2374.5	-55.82	-10	Pass
NVNT	n40	2422	2373.5	-60.18	-10	Pass
NVNT	n40	2422	2372.5	-64.75	-10	Pass
NVNT	n40	2422	2371.5	-68.26	-10	Pass
NVNT	n40	2422	2370.5	-69.96	-10	Pass
NVNT	n40	2422	2369.5	-70.8	-10	Pass
NVNT	n40	2422	2368.5	-70.83	-10	Pass
NVNT	n40	2422	2367.5	-71.12	-10	Pass
NVNT	n40	2422	2366.5	-71.29	-10	Pass
NVNT	n40	2422	2365.5	-71.59	-10	Pass
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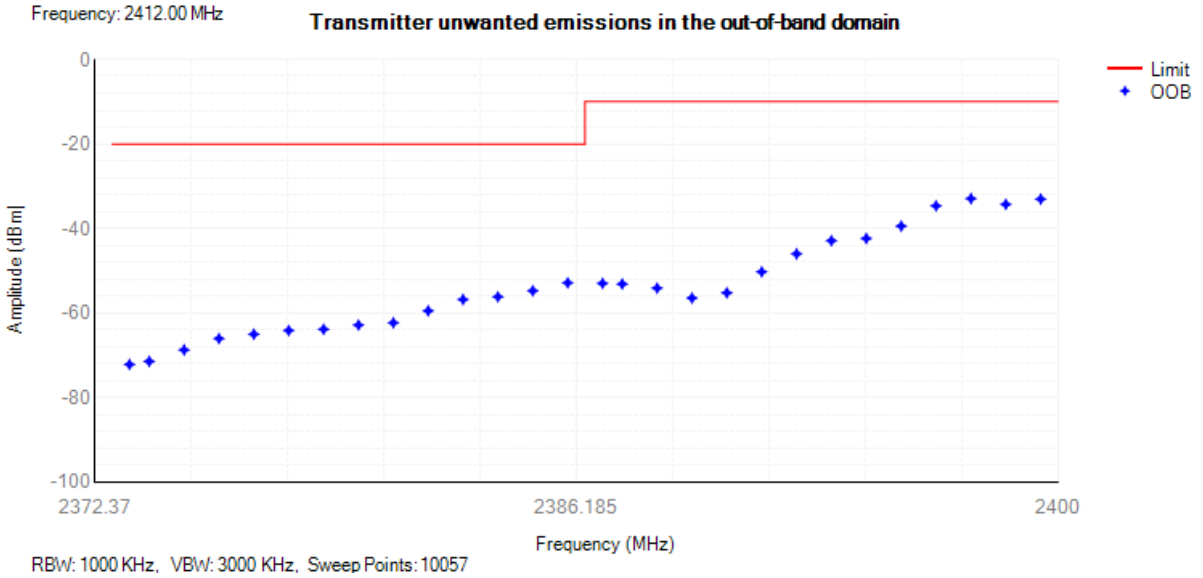
NVNT	n40	2422	2364.266	-71.68	-10	Pass
NVNT	n40	2422	2363.266	-72.19	-20	Pass
NVNT	n40	2422	2362.266	-72.49	-20	Pass
NVNT	n40	2422	2361.266	-72.52	-20	Pass
NVNT	n40	2422	2360.266	-72.74	-20	Pass
NVNT	n40	2422	2359.266	-72.93	-20	Pass
NVNT	n40	2422	2358.266	-73.17	-20	Pass
NVNT	n40	2422	2357.266	-73.08	-20	Pass
NVNT	n40	2422	2356.266	-73.01	-20	Pass
NVNT	n40	2422	2355.266	-73.22	-20	Pass

NVNT	n40	2422	2354.266	-73.38	-20	Pass
NVNT	n40	2422	2353.266	-73.32	-20	Pass
NVNT	n40	2422	2352.266	-73.39	-20	Pass
NVNT	n40	2422	2351.266	-73.53	-20	Pass
NVNT	n40	2422	2350.266	-73.54	-20	Pass
NVNT	n40	2422	2349.266	-73.63	-20	Pass
NVNT	n40	2422	2348.266	-73.56	-20	Pass
NVNT	n40	2422	2347.266	-73.67	-20	Pass
NVNT	n40	2422	2346.266	-73.5	-20	Pass
NVNT	n40	2422	2345.266	-73.41	-20	Pass
NVNT	n40	2422	2344.266	-73.68	-20	Pass
NVNT	n40	2422	2343.266	-73.69	-20	Pass
NVNT	n40	2422	2342.266	-73.61	-20	Pass
NVNT	n40	2422	2341.266	-73.8	-20	Pass
NVNT	n40	2422	2340.266	-73.64	-20	Pass
NVNT	n40	2422	2339.266	-73.58	-20	Pass
NVNT	n40	2422	2338.266	-73.71	-20	Pass
NVNT	n40	2422	2337.266	-73.87	-20	Pass
NVNT	n40	2422	2336.266	-73.54	-20	Pass
NVNT	n40	2422	2335.266	-73.68	-20	Pass
NVNT	n40	2422	2334.266	-73.91	-20	Pass
NVNT	n40	2422	2333.266	-73.61	-20	Pass
NVNT	n40	2422	2332.266	-73.89	-20	Pass
NVNT	n40	2422	2331.266	-73.88	-20	Pass
NVNT	n40	2422	2330.266	-73.93	-20	Pass
NVNT	n40	2422	2329.266	-74.03	-20	Pass
NVNT	n40	2422	2328.266	-73.84	-20	Pass
NVNT	n40	2422	2328.032	-74.07	-20	Pass
NVNT	n40	2462	2484	-26	-10	Pass
NVNT	n40	2462	2485	-26.35	-10	Pass
NVNT	n40	2462	2486	-26.92	-10	Pass
NVNT	n40	2462	2487	-26.83	-10	Pass
NVNT	n40	2462	2488	-27.85	-10	Pass
NVNT	n40	2462	2489	-27.82	-10	Pass
NVNT	n40	2462	2490	-27.65	-10	Pass
NVNT	n40	2462	2491	-28.09	-10	Pass
NVNT	n40	2462	2492	-30.11	-10	Pass
NVNT	n40	2462	2493	-32.63	-10	Pass
NVNT	n40	2462	2494	-36.88	-10	Pass
NVNT	n40	2462	2495	-40.35	-10	Pass
NVNT	n40	2462	2496	-44.46	-10	Pass

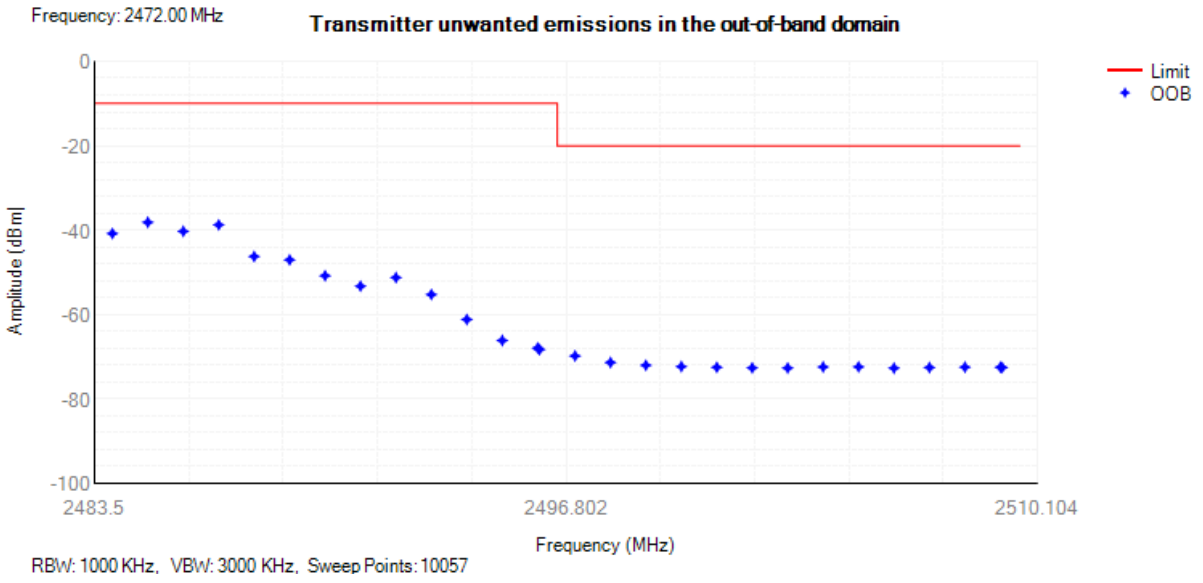
NVNT	n40	2462	2497	-49.13	-10	Pass
NVNT	n40	2462	2498	-52.4	-10	Pass
NVNT	n40	2462	2499	-55.59	-10	Pass
NVNT	n40	2462	2500	-58.94	-10	Pass
NVNT	n40	2462	2501	-60.96	-10	Pass
NVNT	n40	2462	2502	-62.78	-10	Pass
NVNT	n40	2462	2503	-63.51	-10	Pass
NVNT	n40	2462	2504	-64.66	-10	Pass
NVNT	n40	2462	2505	-64.74	-10	Pass
NVNT	n40	2462	2506	-65.26	-10	Pass
NVNT	n40	2462	2507	-65.35	-10	Pass
NVNT	n40	2462	2508	-65.9	-10	Pass
NVNT	n40	2462	2509	-66.13	-10	Pass
NVNT	n40	2462	2510	-66.62	-10	Pass
NVNT	n40	2462	2511	-67.06	-10	Pass
NVNT	n40	2462	2512	-68.14	-10	Pass
NVNT	n40	2462	2513	-68.81	-10	Pass
NVNT	n40	2462	2514	-69.44	-10	Pass
NVNT	n40	2462	2515	-70.19	-10	Pass
NVNT	n40	2462	2516	-70.63	-10	Pass
NVNT	n40	2462	2517	-71.17	-10	Pass
NVNT	n40	2462	2518	-71.42	-10	Pass
NVNT	n40	2462	2519	-71.59	-10	Pass
NVNT	n40	2462	2519.303	-71.81	-10	Pass
NVNT	n40	2462	2520.303	-72.15	-20	Pass
NVNT	n40	2462	2521.303	-72.39	-20	Pass
NVNT	n40	2462	2522.303	-72.48	-20	Pass
NVNT	n40	2462	2523.303	-72.58	-20	Pass
NVNT	n40	2462	2524.303	-72.45	-20	Pass
NVNT	n40	2462	2525.303	-72.61	-20	Pass
NVNT	n40	2462	2526.303	-72.82	-20	Pass
NVNT	n40	2462	2527.303	-72.9	-20	Pass
NVNT	n40	2462	2528.303	-72.75	-20	Pass
NVNT	n40	2462	2529.303	-72.79	-20	Pass
NVNT	n40	2462	2530.303	-72.93	-20	Pass
NVNT	n40	2462	2531.303	-72.89	-20	Pass
NVNT	n40	2462	2532.303	-73.18	-20	Pass
NVNT	n40	2462	2533.303	-72.85	-20	Pass
NVNT	n40	2462	2534.303	-73.08	-20	Pass
NVNT	n40	2462	2535.303	-72.9	-20	Pass
NVNT	n40	2462	2536.303	-72.76	-20	Pass

NVNT	n40	2462	2537.303	-72.7	-20	Pass
NVNT	n40	2462	2538.303	-73.18	-20	Pass
NVNT	n40	2462	2539.303	-72.84	-20	Pass
NVNT	n40	2462	2540.303	-72.79	-20	Pass
NVNT	n40	2462	2541.303	-73.06	-20	Pass
NVNT	n40	2462	2542.303	-72.9	-20	Pass
NVNT	n40	2462	2543.303	-72.92	-20	Pass
NVNT	n40	2462	2544.303	-72.96	-20	Pass
NVNT	n40	2462	2545.303	-72.88	-20	Pass
NVNT	n40	2462	2546.303	-73.29	-20	Pass
NVNT	n40	2462	2547.303	-73.33	-20	Pass
NVNT	n40	2462	2548.303	-72.84	-20	Pass
NVNT	n40	2462	2549.303	-73.01	-20	Pass
NVNT	n40	2462	2550.303	-72.83	-20	Pass
NVNT	n40	2462	2551.303	-73.15	-20	Pass
NVNT	n40	2462	2552.303	-72.94	-20	Pass
NVNT	n40	2462	2553.303	-73.2	-20	Pass
NVNT	n40	2462	2554.303	-73.21	-20	Pass
NVNT	n40	2462	2555.303	-73.24	-20	Pass
NVNT	n40	2462	2555.606	-72.91	-20	Pass

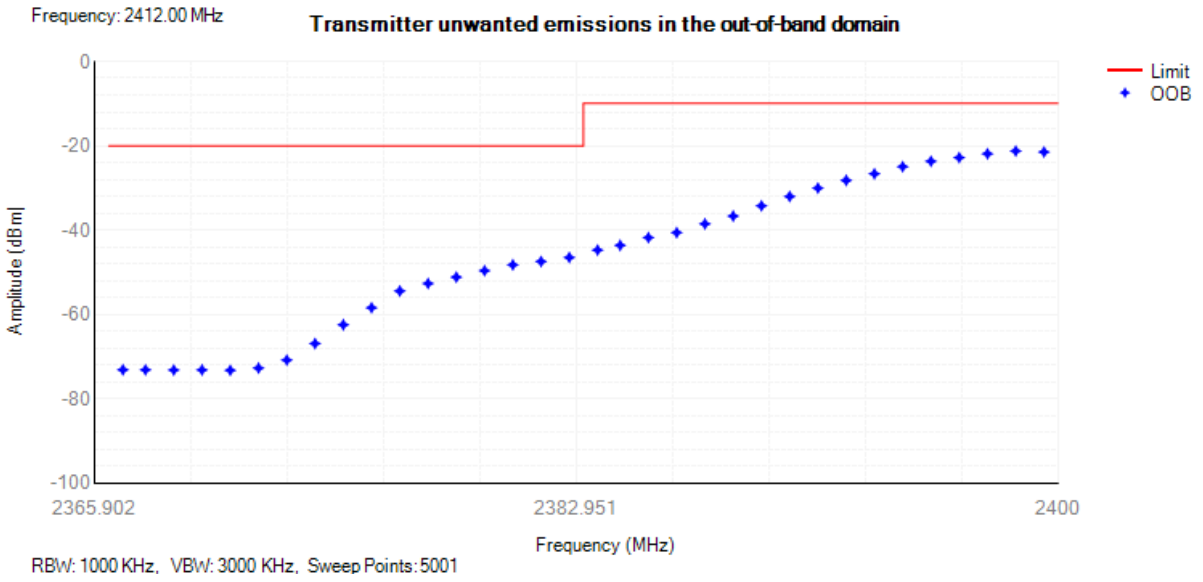
Tx. Emissions OOB NVNT b 2412MHz



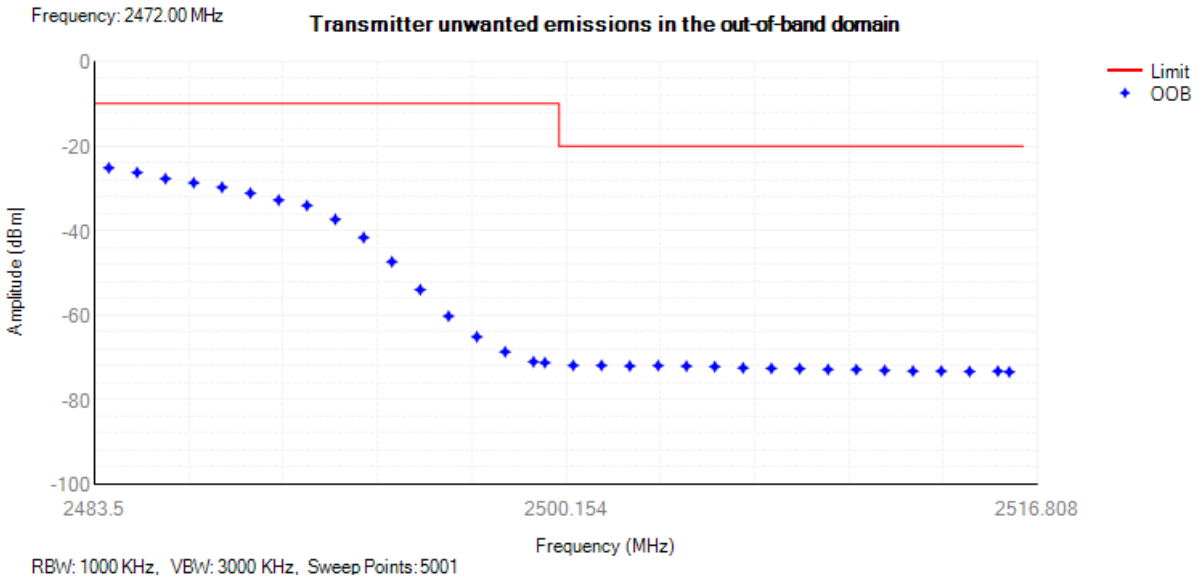
Tx. Emissions OOB NVNT b 2472MHz



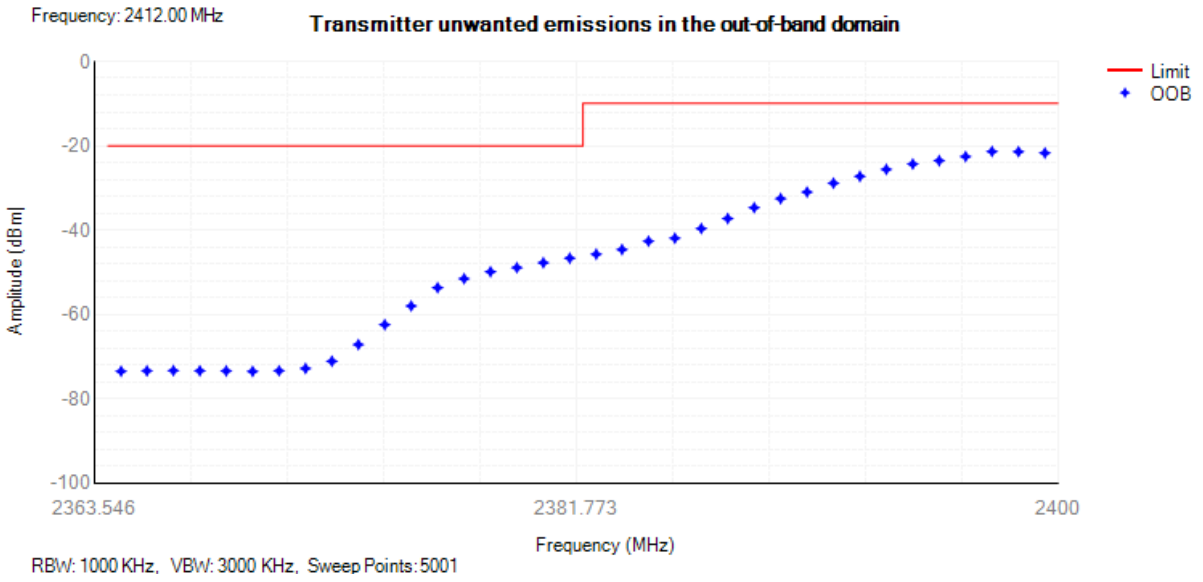
Tx. Emissions OOB NVNT g 2412MHz



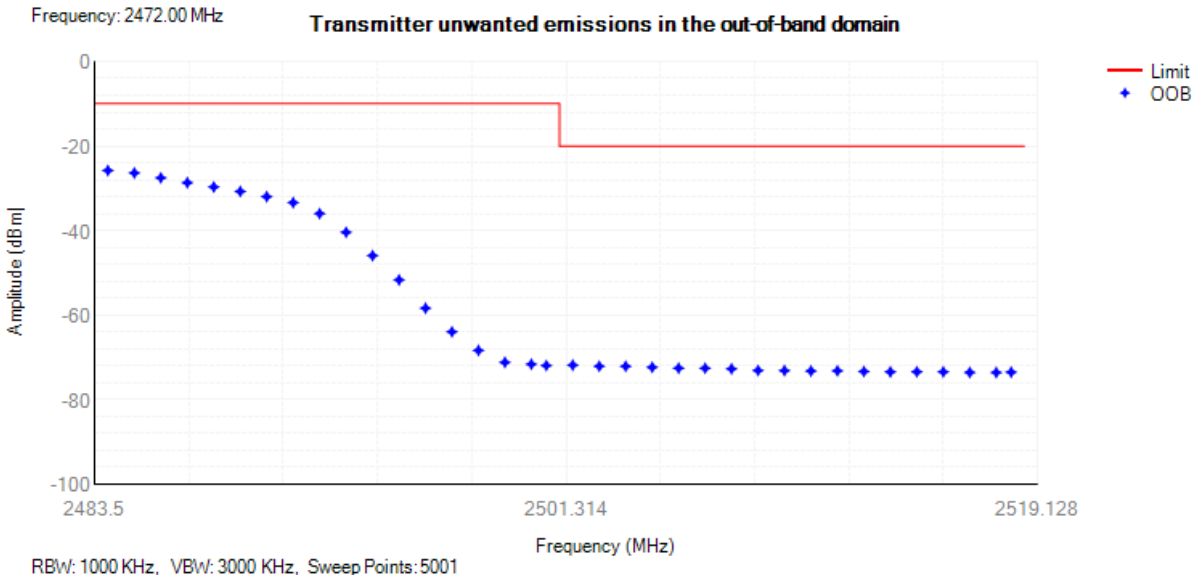
Tx. Emissions OOB NVNT g 2472MHz



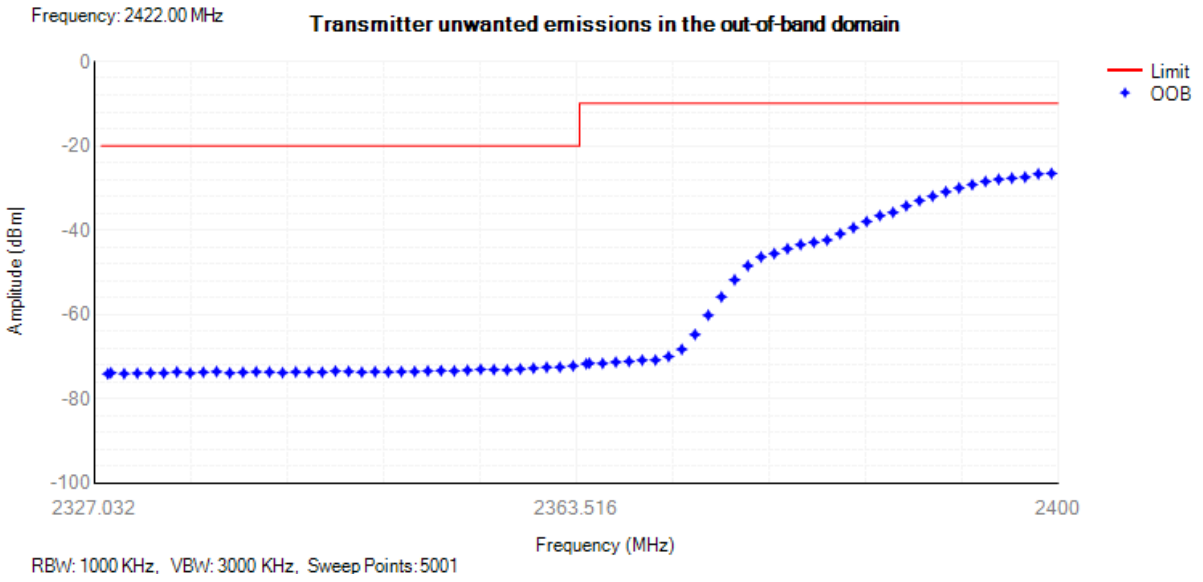
Tx. Emissions OOB NVNT n20 2412MHz



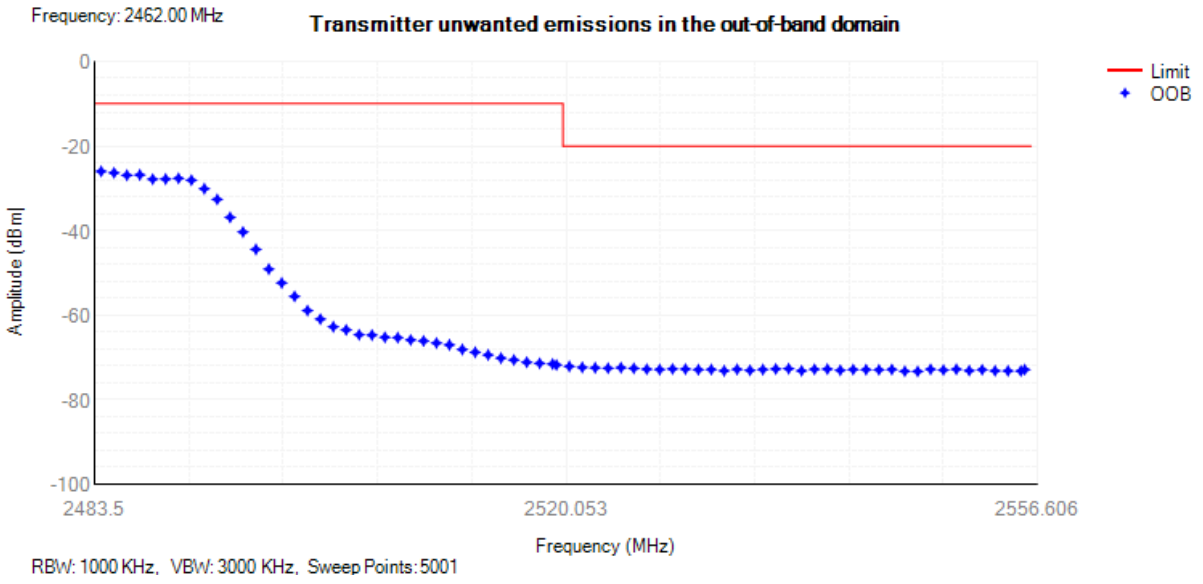
Tx. Emissions OOB NVNT n20 2472MHz



Tx. Emissions OOB NVNT n40 2422MHz



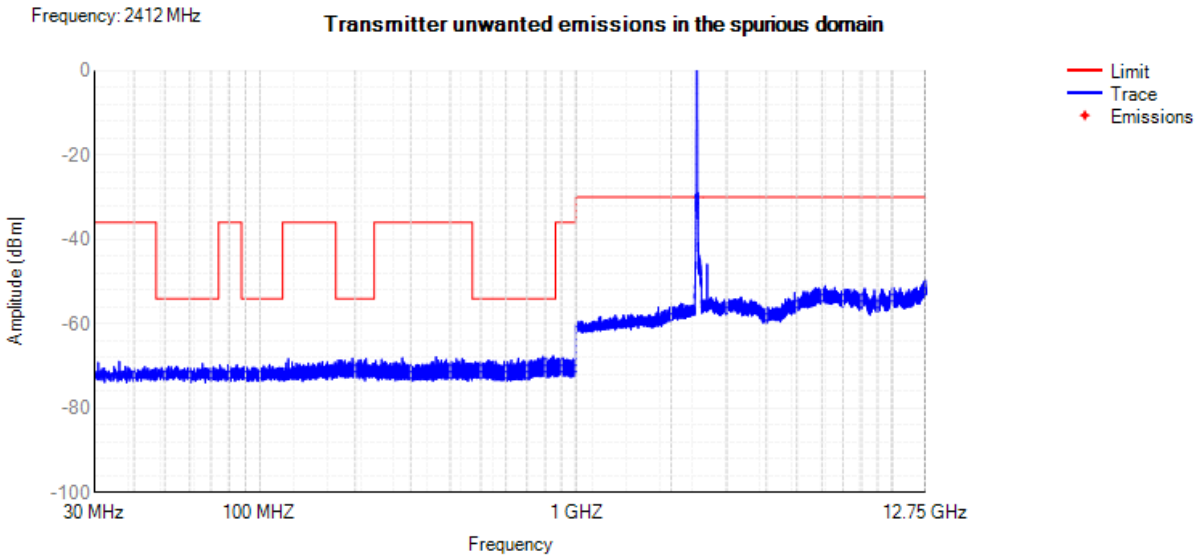
Tx. Emissions OOB NVNT n40 2462MHz



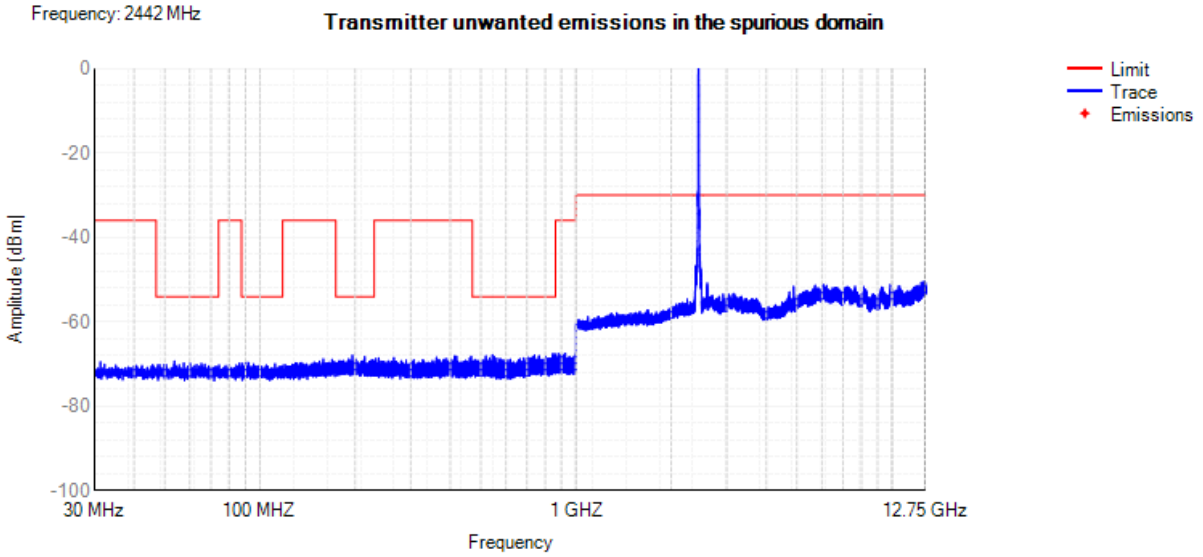
5. Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict

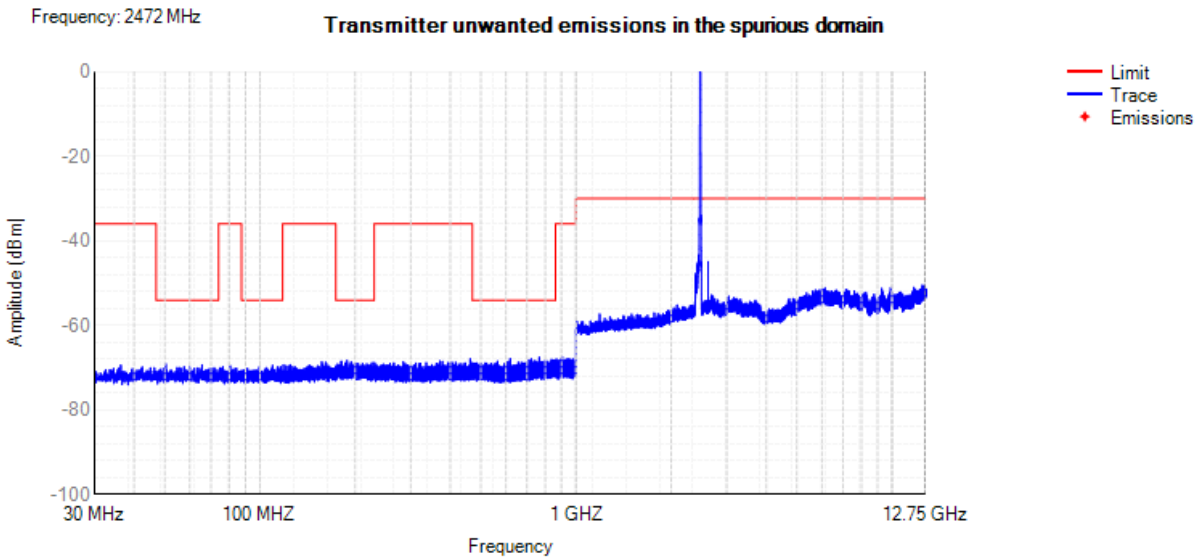
Tx. Spurious NVNT b 2412MHz



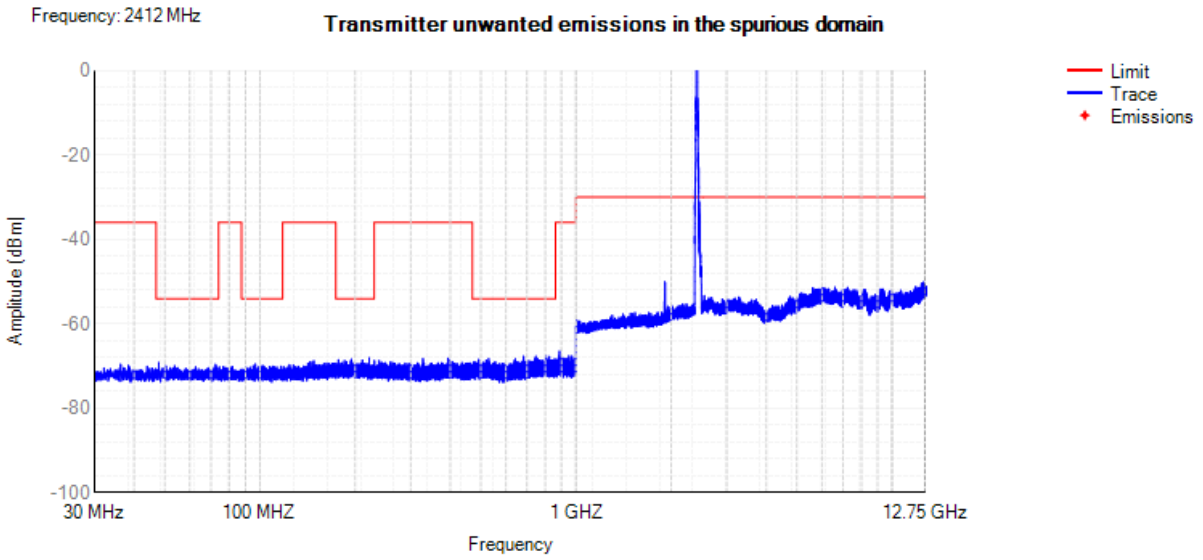
Tx. Spurious NVNT b 2442MHz



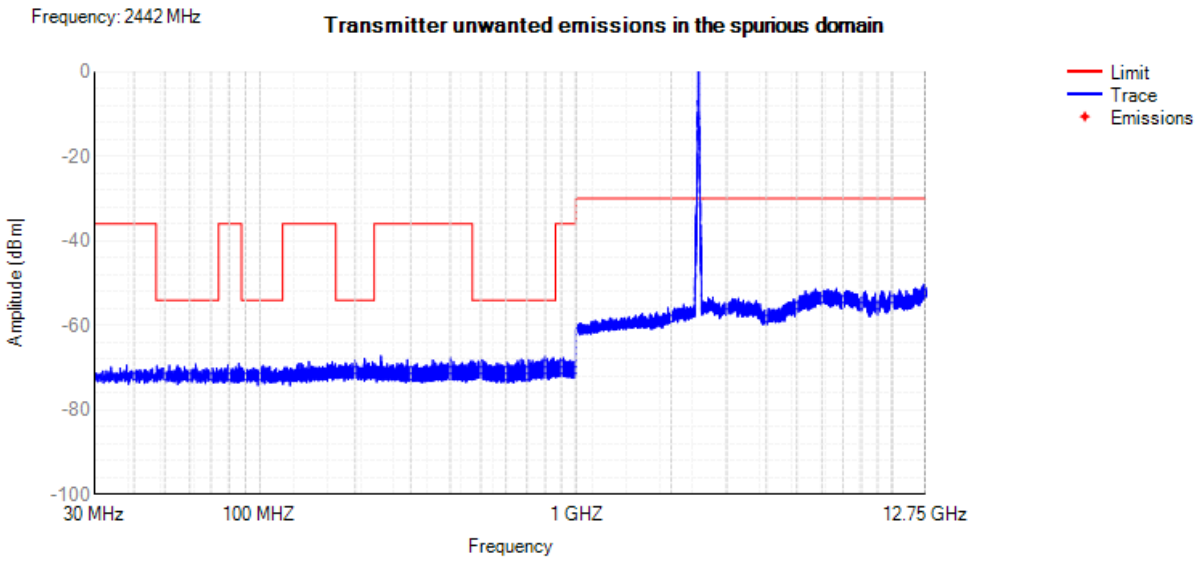
Tx. Spurious NVNT b 2472MHz



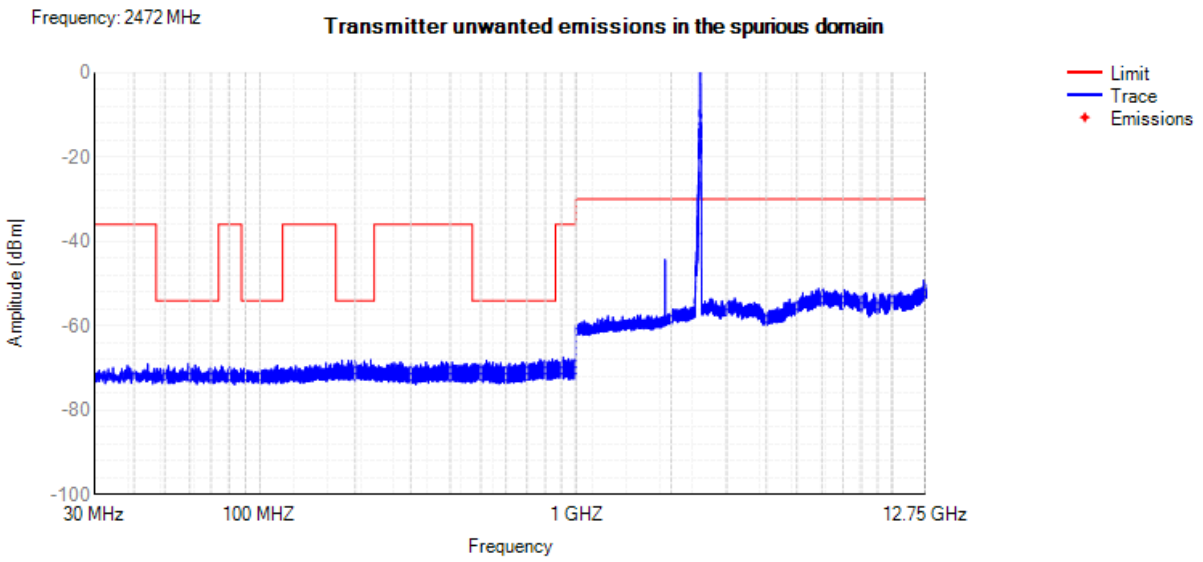
Tx. Spurious NVNT g 2412MHz



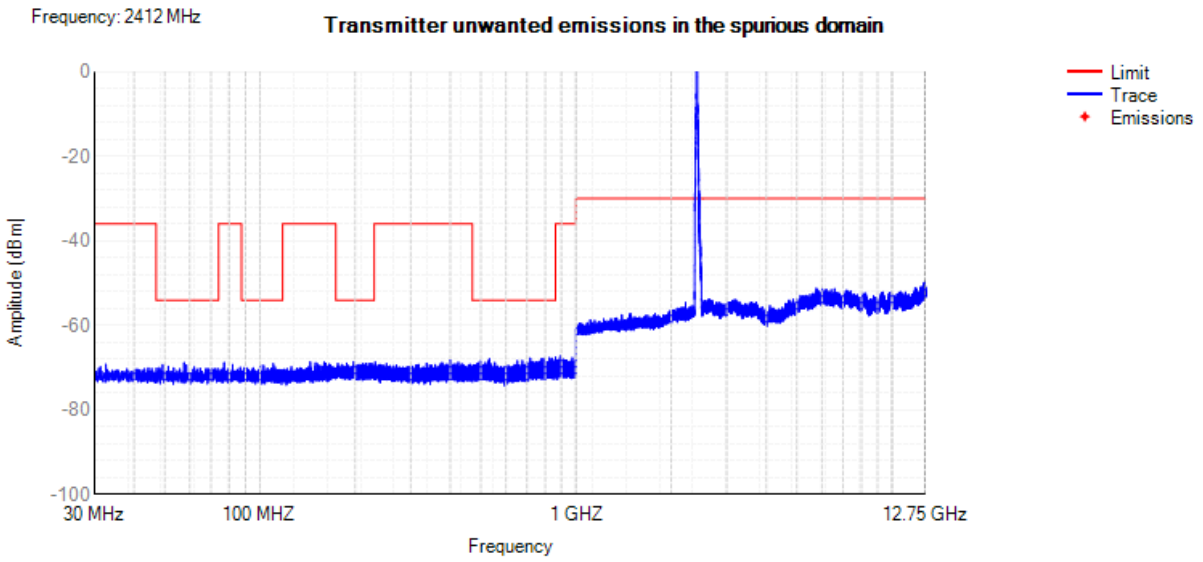
Tx. Spurious NVNT g 2442MHz



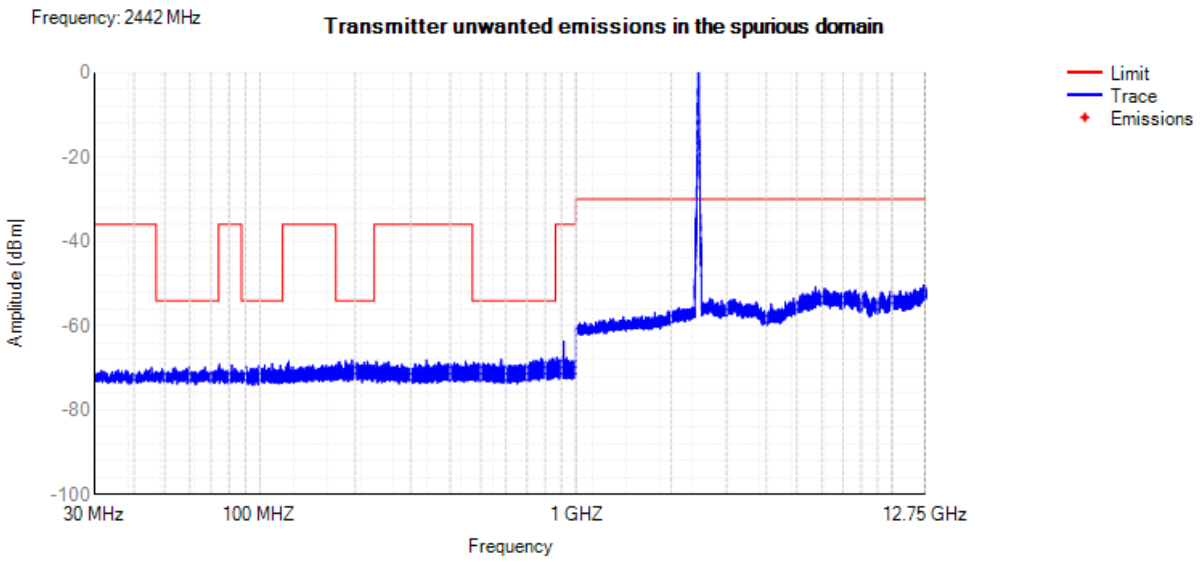
Tx. Spurious NVNT g 2472MHz



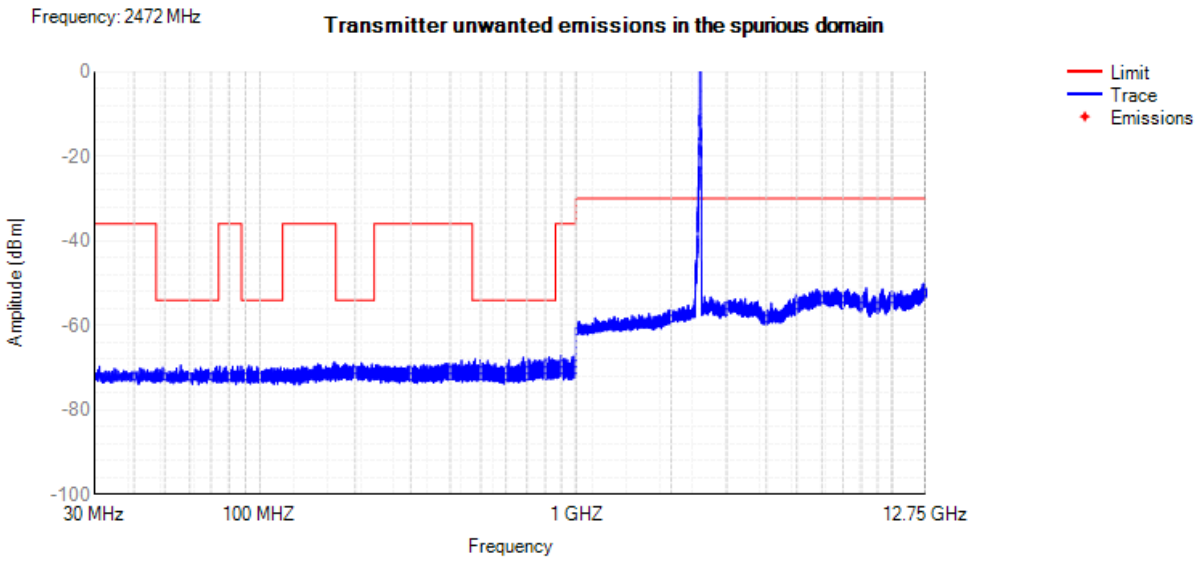
Tx. Spurious NVNT n20 2412MHz



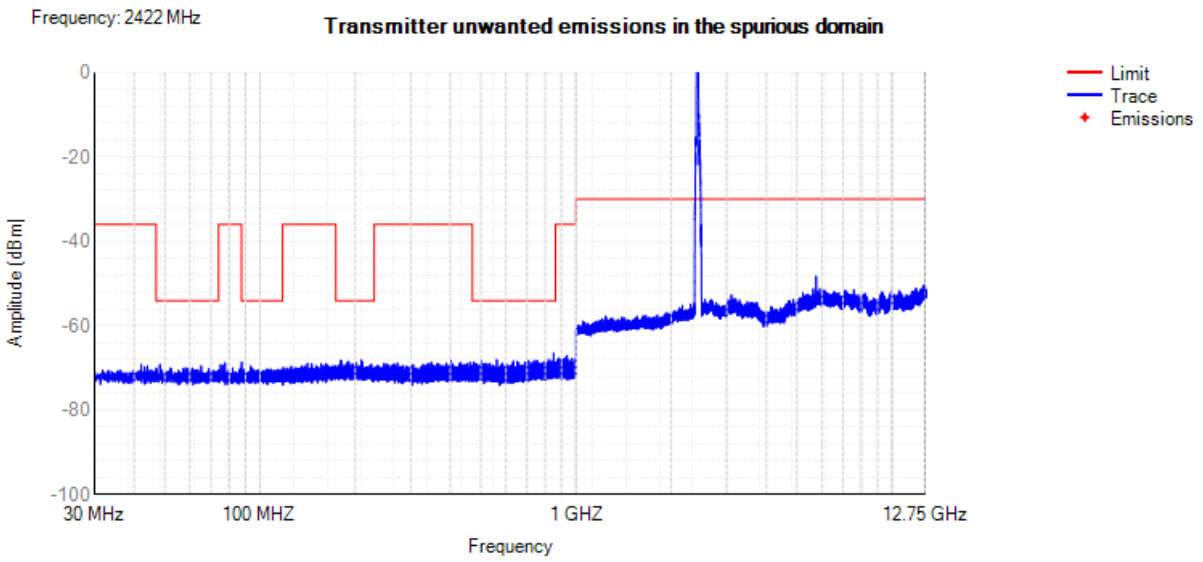
Tx. Spurious NVNT n20 2442MHz



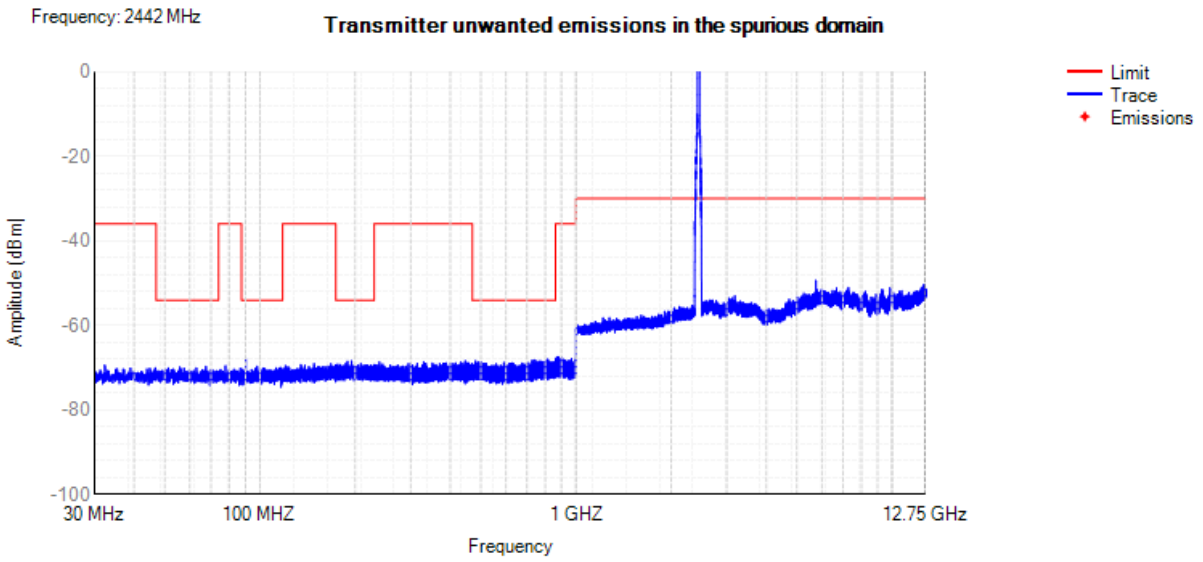
Tx. Spurious NVNT n20 2472MHz



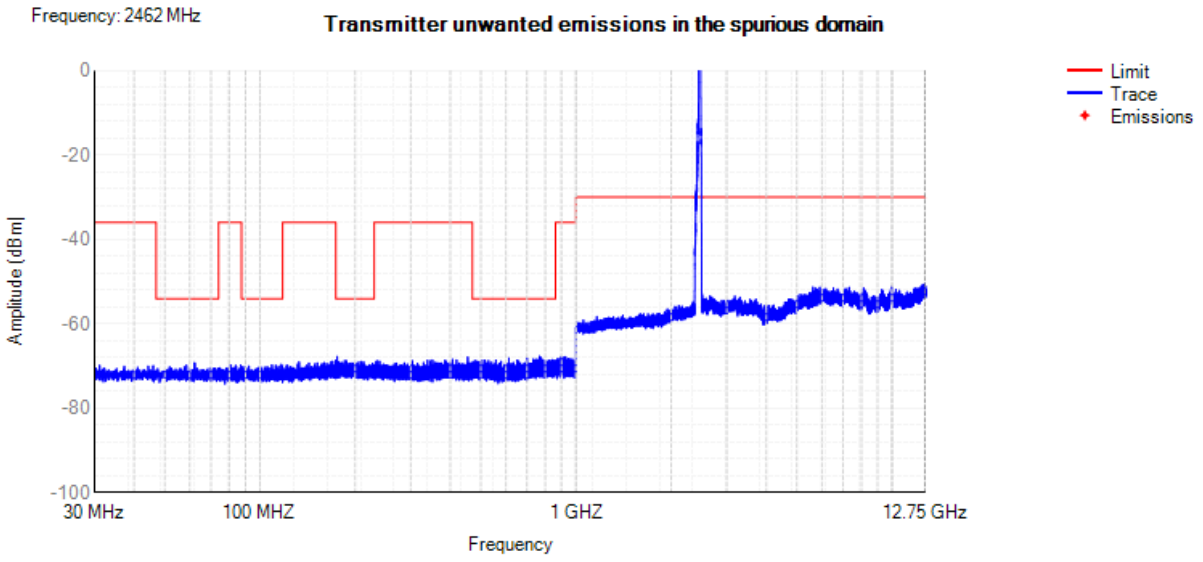
Tx. Spurious NVNT n40 2422MHz



Tx. Spurious NVNT n40 2442MHz



Tx. Spurious NVNT n40 2462MHz



Tx. Spurious NVNT b

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
235.73	H	-47.84	-36.00	-11.84	PK
183.41	V	-67.51	-54.00	-13.51	PK
968.24	H	-46.43	-36.00	-10.43	PK
883.84	V	-48.27	-36.00	-12.27	PK
4824.00	H	-41.41	-30.00	-11.41	PK
4823.97	V	-40.01	-30.00	-10.01	PK
7235.97	H	-43.08	-30.00	-13.08	PK
7236.04	V	-41.23	-30.00	-11.23	PK
Channel 13 (2472MHz)					
165.96	H	-46.75	-36.00	-10.75	PK
243.22	V	-46.26	-36.00	-10.26	PK
903.98	H	-48.48	-36.00	-12.48	PK
998.19	V	-48.67	-36.00	-12.67	PK
4944.00	H	-40.26	-30.00	-10.26	PK
4943.98	V	-40.35	-30.00	-10.35	PK
7416.03	H	-40.61	-30.00	-10.61	PK
7416.00	V	-44.09	-30.00	-14.09	PK

Tx. Spurious NVNT g

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
271.07	H	-49.95	-36.00	-13.95	PK
162.61	V	-50.75	-36.00	-14.75	PK
964.45	H	-47.11	-36.00	-11.11	PK
870.16	V	-48.45	-36.00	-12.45	PK
4824.03	H	-41.73	-30.00	-11.73	PK
4823.97	V	-40.01	-30.00	-10.01	PK
7236.02	H	-41.95	-30.00	-11.95	PK
7236.03	V	-44.64	-30.00	-14.64	PK
Channel 13 (2472MHz)					
158.89	H	-48.38	-36.00	-12.38	PK
180.72	V	-67.28	-54.00	-13.28	PK
921.64	H	-48.25	-36.00	-12.25	PK
876.72	V	-47.07	-36.00	-11.07	PK
4943.99	H	-43.30	-30.00	-13.30	PK
4943.99	V	-40.99	-30.00	-10.99	PK
7416.02	H	-40.03	-30.00	-10.03	PK
7416.03	V	-44.50	-30.00	-14.50	PK

Tx. Spurious NVNT n20

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
121.57	H	-46.51	-36.00	-10.51	PK
146.07	V	-48.23	-36.00	-12.23	PK
969.20	H	-48.64	-36.00	-12.64	PK
842.87	V	-68.80	-54.00	-14.80	PK
4823.97	H	-42.01	-30.00	-12.01	PK
4823.98	V	-44.37	-30.00	-14.37	PK
7236.04	H	-42.59	-30.00	-12.59	PK
7235.96	V	-42.91	-30.00	-12.91	PK
Channel 13 (2472MHz)					
138.46	H	-49.45	-36.00	-13.45	PK
216.94	V	-65.77	-54.00	-11.77	PK
939.23	H	-50.07	-36.00	-14.07	PK
839.06	V	-64.57	-54.00	-10.57	PK
4943.98	H	-43.14	-30.00	-13.14	PK
4943.99	V	-42.35	-30.00	-12.35	PK
7415.99	H	-42.91	-30.00	-12.91	PK
7416.00	V	-40.34	-30.00	-10.34	PK

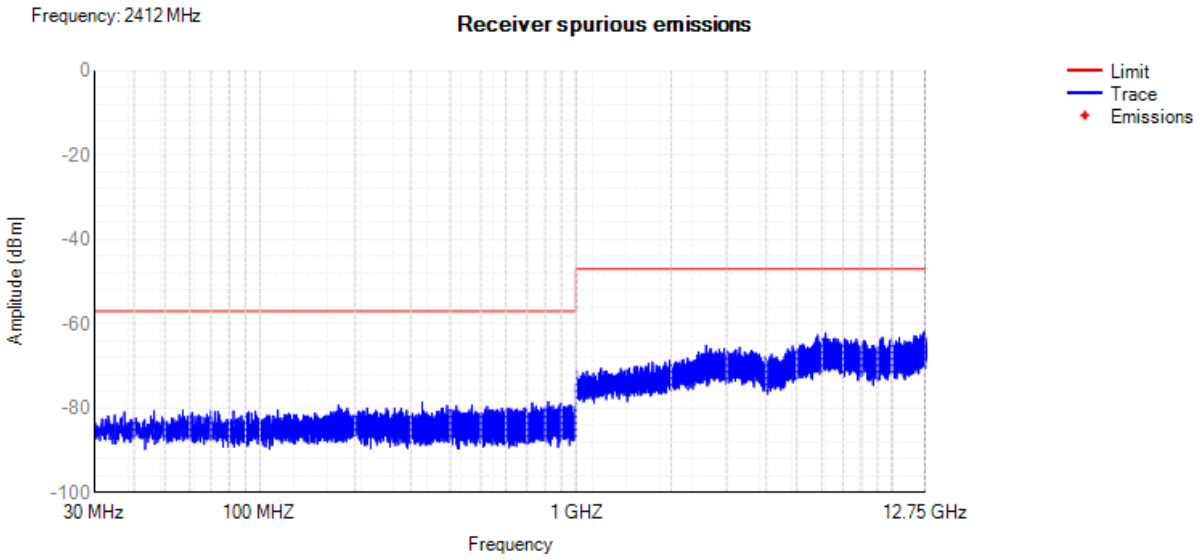
Tx. Spurious NVNT n40

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
214.75	H	-65.44	-54.00	-11.44	PK
252.36	V	-48.66	-36.00	-12.66	PK
958.65	H	-48.53	-36.00	-12.53	PK
882.88	V	-47.94	-36.00	-11.94	PK
4843.97	H	-42.84	-30.00	-12.84	PK
4844.00	V	-41.77	-30.00	-11.77	PK
7266.04	H	-44.76	-30.00	-14.76	PK
7266.02	V	-40.81	-30.00	-10.81	PK
Channel 13 (2472MHz)					
116.04	H	-66.05	-54.00	-12.05	PK
272.37	V	-47.42	-36.00	-11.42	PK
836.54	H	-67.58	-54.00	-13.58	PK
870.54	V	-50.95	-36.00	-14.95	PK
4924.00	H	-41.42	-30.00	-11.42	PK
4923.97	V	-41.50	-30.00	-11.50	PK
7386.03	H	-43.92	-30.00	-13.92	PK
7386.04	V	-42.63	-30.00	-12.63	PK

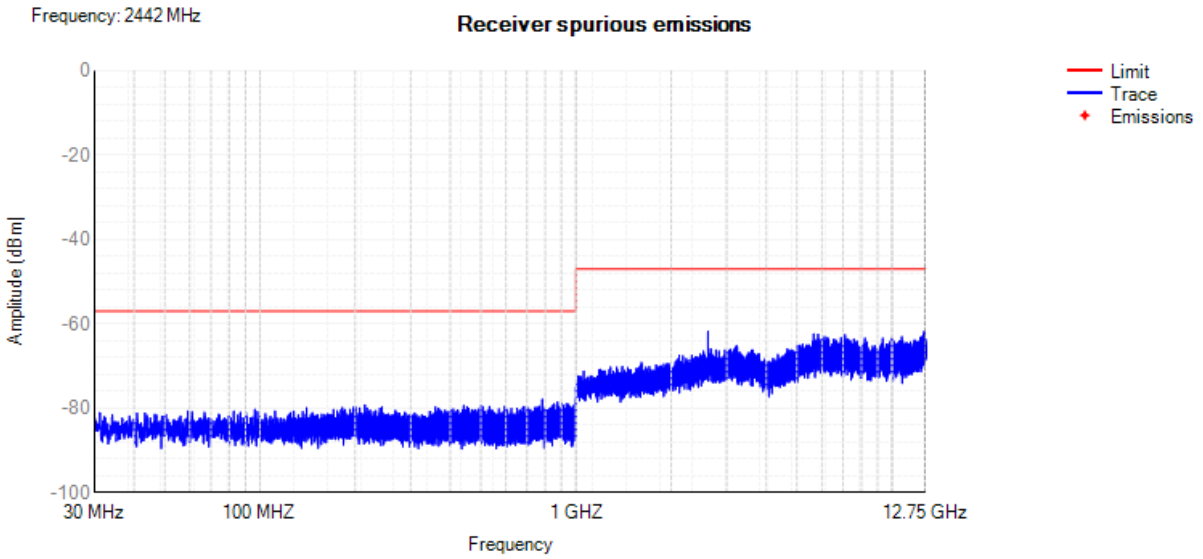
6. Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict

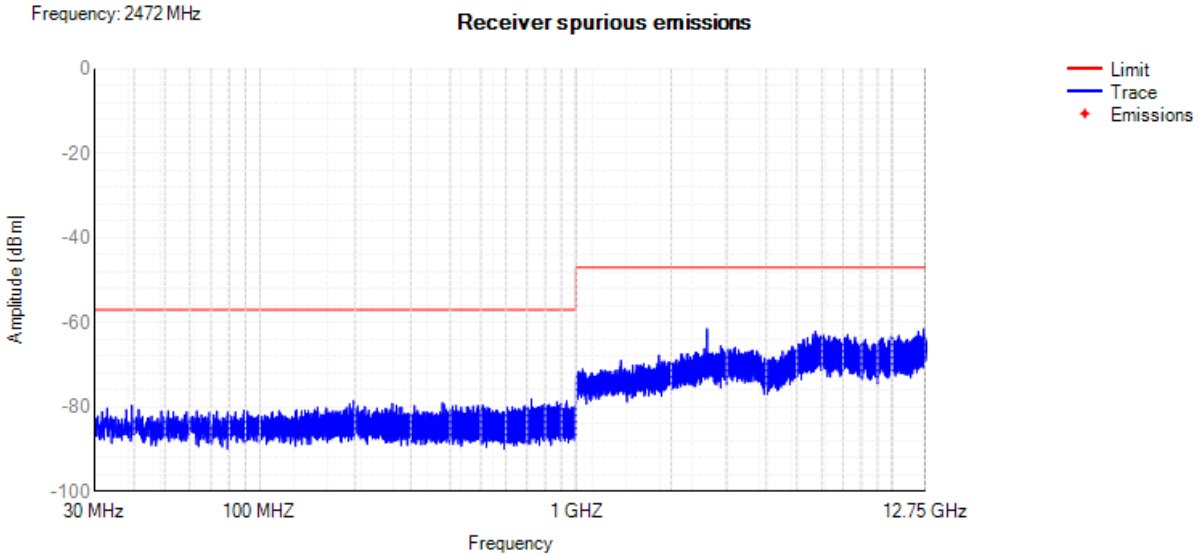
Rx. Spurious NVNT b 2412MHz



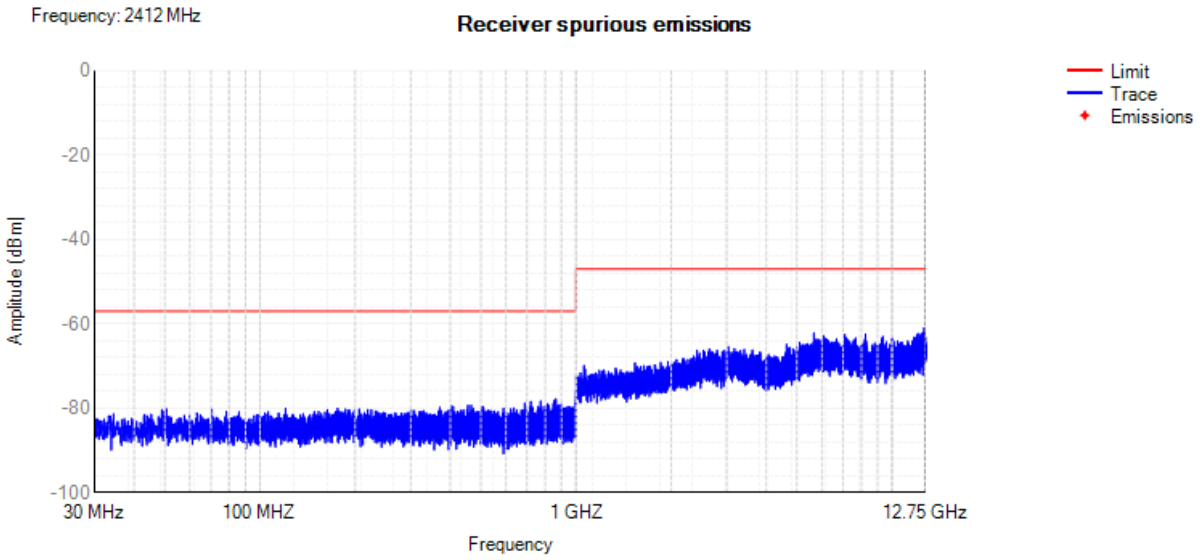
Rx. Spurious NVNT b 2442MHz



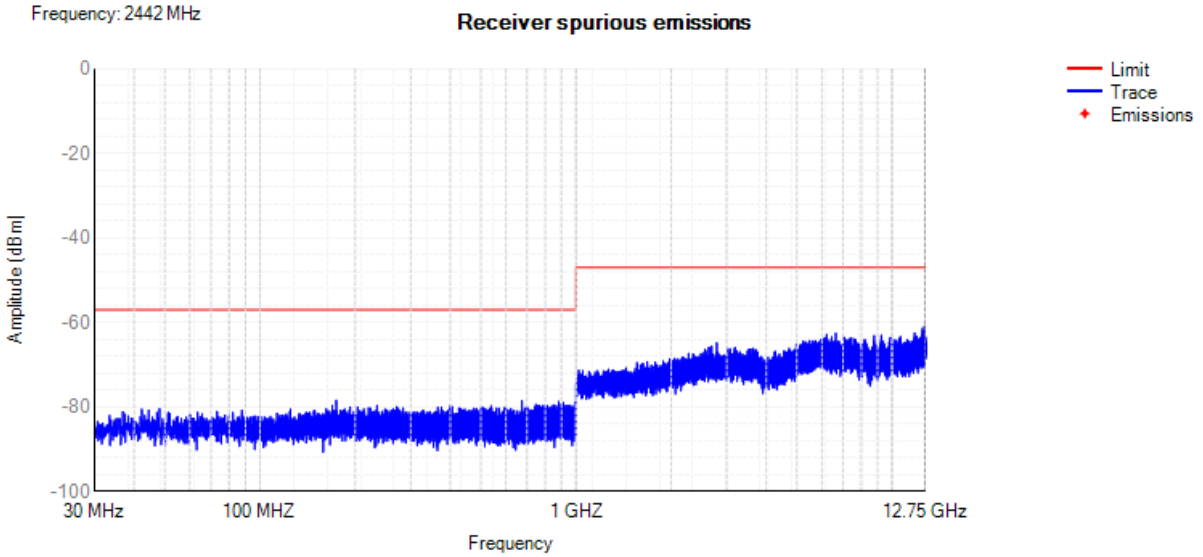
Rx. Spurious NVNT b 2472MHz



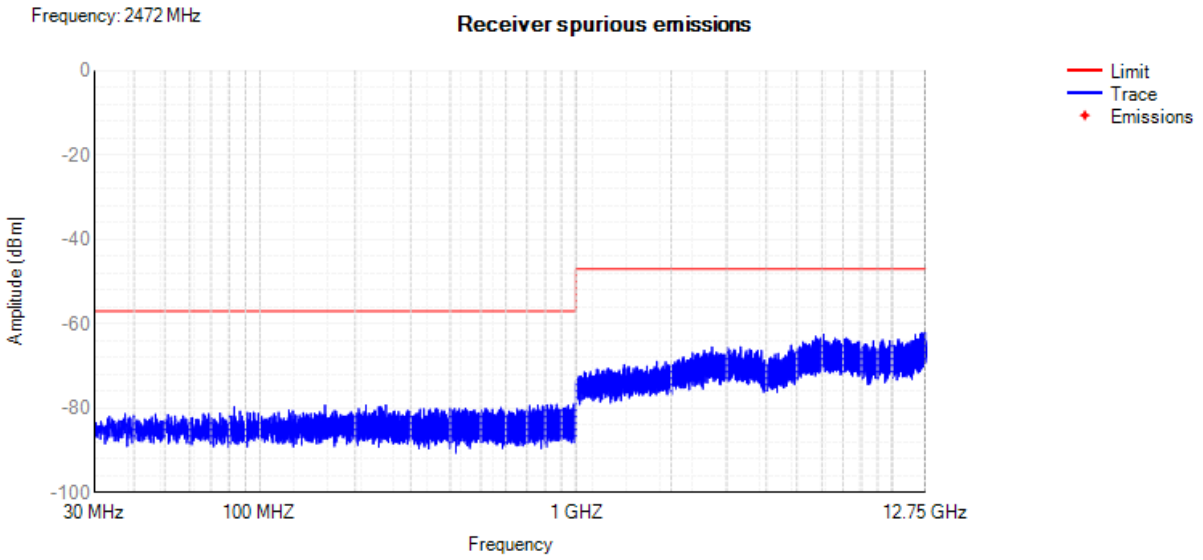
Rx. Spurious NVNT g 2412MHz



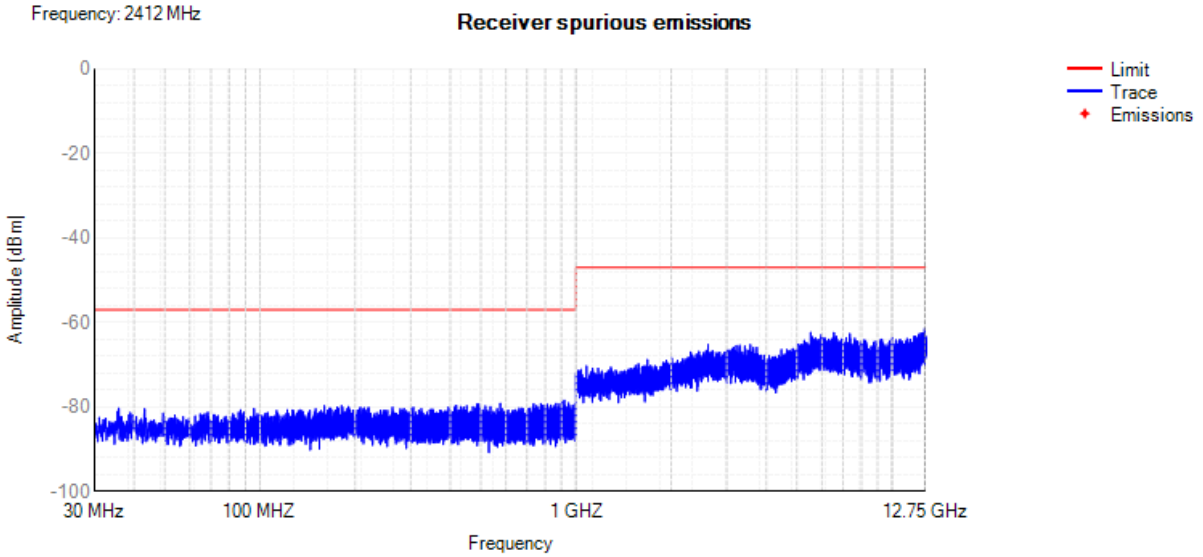
Rx. Spurious NVNT g 2442MHz



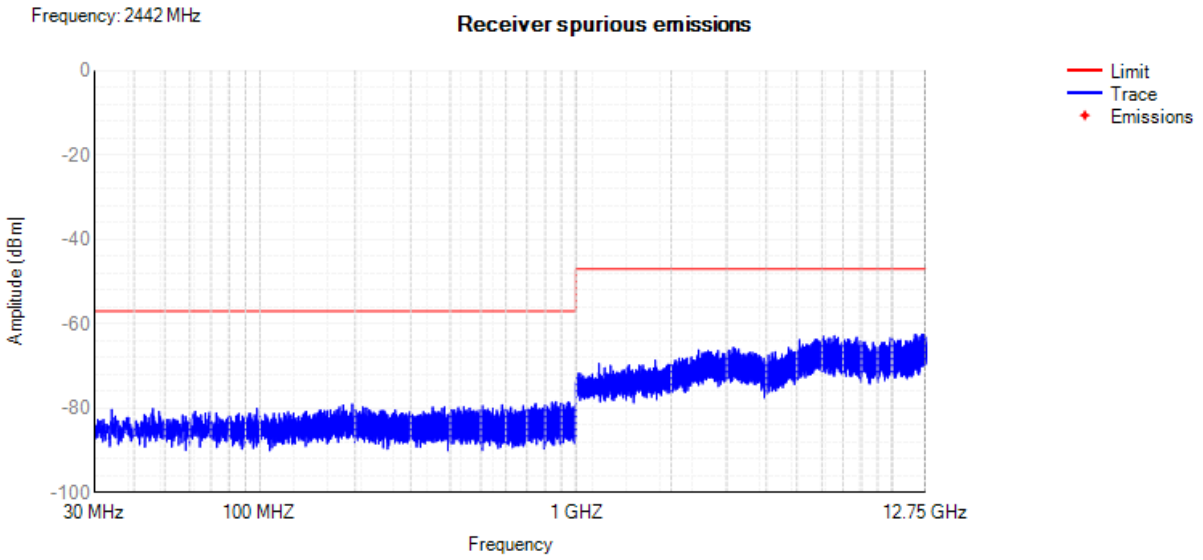
Rx. Spurious NVNT g 2472MHz



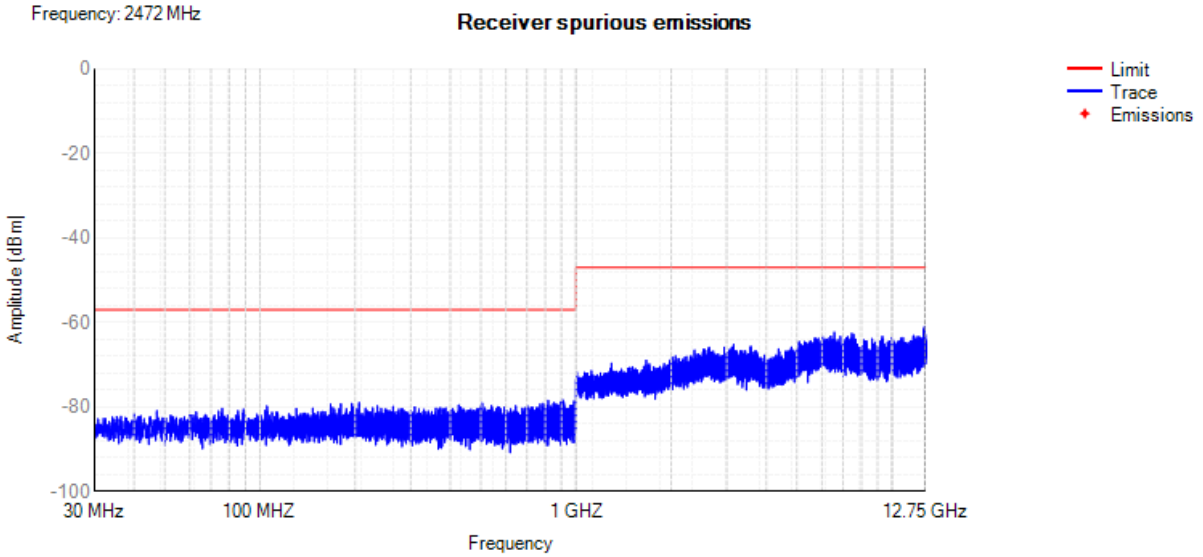
Rx. Spurious NVNT n20 2412MHz



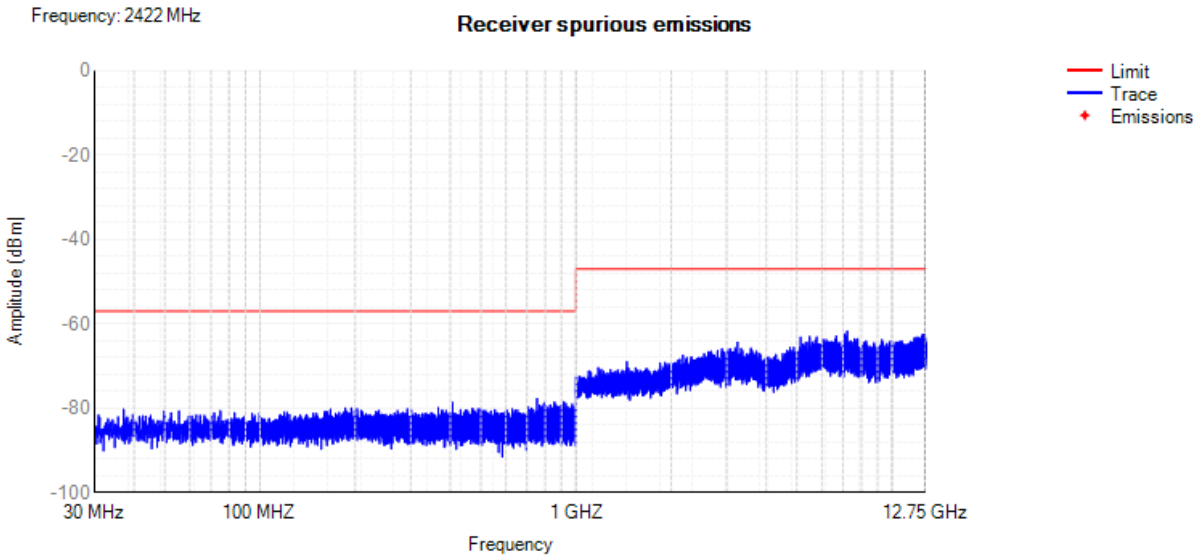
Rx. Spurious NVNT n20 2442MHz



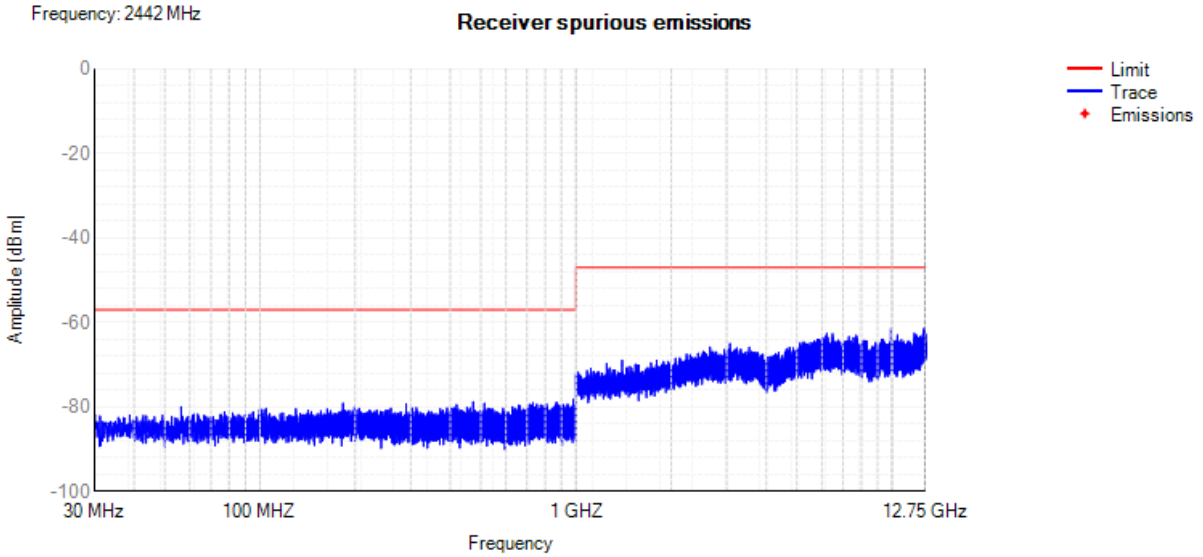
Rx. Spurious NVNT n20 2472MHz



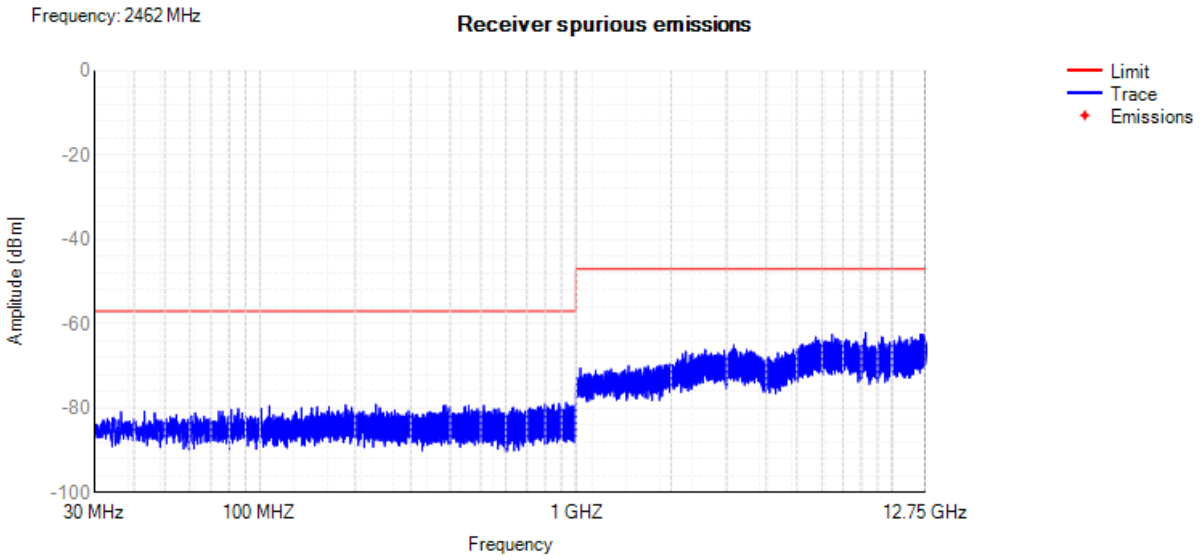
Rx. Spurious NVNT n40 2422MHz



Rx. Spurious NVNT n40 2442MHz



Rx. Spurious NVNT n40 2462MHz



Rx. Spurious NVNT b

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
172.99	H	-69.88	-57.00	-12.88	PK
210.86	V	-69.82	-57.00	-12.82	PK
891.36	H	-70.11	-57.00	-13.11	PK
834.09	V	-69.38	-57.00	-12.38	PK
1460.73	H	-58.03	-47.00	-11.03	PK
1585.79	V	-61.74	-47.00	-14.74	PK
4173.01	H	-61.81	-47.00	-14.81	PK
3855.64	V	-58.98	-47.00	-11.98	PK
Channel 13 (2472MHz)					
245.26	H	-68.05	-57.00	-11.05	PK
133.90	V	-71.25	-57.00	-14.25	PK
844.36	H	-67.84	-57.00	-10.84	PK
880.87	V	-68.27	-57.00	-11.27	PK
1637.21	H	-59.54	-47.00	-12.54	PK
1672.55	V	-61.74	-47.00	-14.74	PK
4299.08	H	-61.40	-47.00	-14.40	PK
3991.62	V	-59.05	-47.00	-12.05	PK

Rx. Spurious NVNT g

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
132.65	H	-67.62	-57.00	-10.62	PK
269.57	V	-71.15	-57.00	-14.15	PK
844.35	H	-69.72	-57.00	-12.72	PK
995.26	V	-67.83	-57.00	-10.83	PK
1364.26	H	-60.64	-47.00	-13.64	PK
1453.38	V	-61.30	-47.00	-14.30	PK
4251.82	H	-61.55	-47.00	-14.55	PK
3965.38	V	-57.49	-47.00	-10.49	PK
Channel 13 (2472MHz)					
112.70	H	-71.17	-57.00	-14.17	PK
199.26	V	-71.29	-57.00	-14.29	PK
841.88	H	-69.89	-57.00	-12.89	PK
973.50	V	-69.25	-57.00	-12.25	PK
1776.60	H	-59.77	-47.00	-12.77	PK
1600.87	V	-57.58	-47.00	-10.58	PK
4210.76	H	-59.94	-47.00	-12.94	PK
4272.92	V	-61.09	-47.00	-14.09	PK

Rx. Spurious NVNT n20

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
182.92	H	-71.73	-57.00	-14.73	PK
134.48	V	-69.65	-57.00	-12.65	PK
920.09	H	-69.60	-57.00	-12.60	PK
931.17	V	-70.11	-57.00	-13.11	PK
1547.38	H	-60.82	-47.00	-13.82	PK
1374.47	V	-59.71	-47.00	-12.71	PK
3795.10	H	-57.25	-47.00	-10.25	PK
4236.34	V	-60.21	-47.00	-13.21	PK
Channel 13 (2472MHz)					
138.21	H	-71.32	-57.00	-14.32	PK
102.55	V	-70.70	-57.00	-13.70	PK
916.43	H	-70.61	-57.00	-13.61	PK
878.56	V	-70.92	-57.00	-13.92	PK
1818.61	H	-61.42	-47.00	-14.42	PK
1369.44	V	-61.09	-47.00	-14.09	PK
3997.12	H	-59.17	-47.00	-12.17	PK
4299.24	V	-58.64	-47.00	-11.64	PK

Rx. Spurious NVNT n40

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 01 (2412MHz)					
135.30	H	-69.52	-57.00	-12.52	PK
255.06	V	-67.10	-57.00	-10.10	PK
806.19	H	-70.43	-57.00	-13.43	PK
995.58	V	-71.55	-57.00	-14.55	PK
1626.33	H	-61.89	-47.00	-14.89	PK
1793.97	V	-59.69	-47.00	-12.69	PK
4151.07	H	-61.28	-47.00	-14.28	PK
4262.16	V	-57.42	-47.00	-10.42	PK
Channel 13 (2472MHz)					
283.81	H	-69.82	-57.00	-12.82	PK
128.84	V	-70.71	-57.00	-13.71	PK
842.12	H	-71.20	-57.00	-14.20	PK
871.24	V	-67.33	-57.00	-10.33	PK
1788.18	H	-57.72	-47.00	-10.72	PK
1439.12	V	-58.15	-47.00	-11.15	PK
4129.73	H	-57.34	-47.00	-10.34	PK
3732.89	V	-61.82	-47.00	-14.82	PK

7. Receiver Blocking

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Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11b	2412	2380	-85	-35	≥-53	CW	4.65	10	Pass
			2503.5	-86	-33	≥-53	CW	6.60	10	Pass
			2300	-82	-23	≥-47	CW	5.76	10	Pass
			2330	-85	-18	≥-47	CW	4.22	10	Pass
			2360	-84	-19	≥-47	CW	5.24	10	Pass
			2523.5	-88	-26	≥-47	CW	6.26	10	Pass
			2553.5	-83	-25	≥-47	CW	6.64	10	Pass
			2583.5	-85	-21	≥-47	CW	4.50	10	Pass
			2613.5	-92	-15	≥-47	CW	3.06	10	Pass
			2643.5	-84	-14	≥-47	CW	4.03	10	Pass
			2673.5	-86	-19	≥-47	CW	5.23	10	Pass
		2472	2380	-82	-28	≥-53	CW	5.86	10	Pass
			2503.5	-85	-28	≥-53	CW	6.43	10	Pass
			2300	-93	-19	≥-47	CW	3.57	10	Pass
			2330	-95	-25	≥-47	CW	3.09	10	Pass
			2360	-88	-14	≥-47	CW	5.47	10	Pass
			2523.5	-86	-29	≥-47	CW	6.48	10	Pass
			2553.5	-95	-26	≥-47	CW	6.45	10	Pass
			2583.5	-92	-25	≥-47	CW	5.71	10	Pass
			2613.5	-83	-17	≥-47	CW	6.94	10	Pass
			2643.5	-96	-20	≥-47	CW	6.49	10	Pass
			2673.5	-85	-18	≥-47	CW	4.82	10	Pass

Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11g	2412	2380	-84	-29	≥-53	CW	4.44	10	Pass
			2503.5	-85	-27	≥-53	CW	5.45	10	Pass
			2300	-86	-23	≥-47	CW	6.94	10	Pass
			2330	-85	-24	≥-47	CW	6.28	10	Pass
			2360	-84	-21	≥-47	CW	6.52	10	Pass
			2523.5	-82	-25	≥-47	CW	3.41	10	Pass
			2553.5	-83	-26	≥-47	CW	5.78	10	Pass
			2583.5	-85	-17	≥-47	CW	5.92	10	Pass
			2613.5	-94	-18	≥-47	CW	5.74	10	Pass
			2643.5	-86	-15	≥-47	CW	5.10	10	Pass
			2673.5	-88	-16	≥-47	CW	4.81	10	Pass
		2472	2380	-85	-29	≥-53	CW	6.94	10	Pass
			2503.5	-87	-25	≥-53	CW	3.99	10	Pass
			2300	-86	-20	≥-47	CW	3.30	10	Pass
			2330	-95	-20	≥-47	CW	6.78	10	Pass
			2360	-81	-24	≥-47	CW	3.91	10	Pass
			2523.5	-85	-24	≥-47	CW	5.04	10	Pass
			2553.5	-86	-19	≥-47	CW	5.47	10	Pass
			2583.5	-88	-18	≥-47	CW	5.63	10	Pass
			2613.5	-85	-20	≥-47	CW	3.91	10	Pass
			2643.5	-87	-17	≥-47	CW	5.80	10	Pass
			2673.5	-85	-17	≥-47	CW	3.03	10	Pass

Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11n20	2412	2380	-82	-27	≥-53	CW	5.25	10	Pass
			2503.5	-83	-24	≥-53	CW	6.90	10	Pass
			2300	-90	-24	≥-47	CW	4.40	10	Pass
			2330	-87	-20	≥-47	CW	5.02	10	Pass
			2360	-86	-18	≥-47	CW	6.19	10	Pass
			2523.5	-84	-20	≥-47	CW	6.52	10	Pass
			2553.5	-85	-23	≥-47	CW	3.90	10	Pass
			2583.5	-83	-20	≥-47	CW	3.28	10	Pass
			2613.5	-87	-22	≥-47	CW	3.32	10	Pass
			2643.5	-86	-13	≥-47	CW	3.67	10	Pass
			2673.5	-88	-15	≥-47	CW	3.52	10	Pass
		2472	2380	-90	-29	≥-53	CW	4.22	10	Pass
			2503.5	-87	-31	≥-53	CW	6.26	10	Pass
			2300	-90	-20	≥-47	CW	6.95	10	Pass
			2330	-82	-17	≥-47	CW	3.07	10	Pass
			2360	-85	-23	≥-47	CW	3.61	10	Pass
			2523.5	-88	-29	≥-47	CW	4.38	10	Pass
			2553.5	-86	-20	≥-47	CW	6.79	10	Pass
			2583.5	-83	-19	≥-47	CW	4.89	10	Pass
			2613.5	-84	-16	≥-47	CW	3.71	10	Pass
			2643.5	-85	-15	≥-47	CW	4.47	10	Pass
			2673.5	-88	-15	≥-47	CW	4.96	10	Pass

Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11n40	2412	2380	-84	-32	≥-53	CW	6.69	10	Pass
			2503.5	-85	-32	≥-53	CW	5.41	10	Pass
			2300	-86	-21	≥-47	CW	3.81	10	Pass
			2330	-85	-18	≥-47	CW	4.84	10	Pass
			2360	-84	-17	≥-47	CW	6.47	10	Pass
			2523.5	-82	-21	≥-47	CW	6.04	10	Pass
			2553.5	-83	-26	≥-47	CW	5.78	10	Pass
			2583.5	-85	-25	≥-47	CW	5.84	10	Pass
			2613.5	-94	-24	≥-47	CW	4.75	10	Pass
			2643.5	-86	-19	≥-47	CW	4.86	10	Pass
			2673.5	-88	-11	≥-47	CW	3.72	10	Pass
		2472	2380	-85	-26	≥-53	CW	4.25	10	Pass
			2503.5	-87	-24	≥-53	CW	3.24	10	Pass
			2300	-86	-23	≥-47	CW	5.31	10	Pass
			2330	-95	-24	≥-47	CW	3.10	10	Pass
			2360	-81	-19	≥-47	CW	4.45	10	Pass
			2523.5	-85	-29	≥-47	CW	3.76	10	Pass
			2553.5	-86	-22	≥-47	CW	4.26	10	Pass
			2583.5	-88	-23	≥-47	CW	5.35	10	Pass
			2613.5	-85	-22	≥-47	CW	4.47	10	Pass
			2643.5	-87	-14	≥-47	CW	4.35	10	Pass
			2673.5	-85	-20	≥-47	CW	6.33	10	Pass

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Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11b	2412	2380	-85	-30	≥-57	CW	6.51	10	Pass
			2503.5	-86	-26	≥-57	CW	5.39	10	Pass
			2300	-82	-20	≥-47	CW	6.06	10	Pass
			2583.5	-85	-19	≥-47	CW	6.16	10	Pass
		2472	2380	-85	-33	≥-57	CW	6.48	10	Pass
			2503.5	-86	-26	≥-57	CW	6.41	10	Pass
			2300	-82	-20	≥-47	CW	5.34	10	Pass
			2583.5	-85	-17	≥-47	CW	6.17	10	Pass

Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11g	2412	2380	-85	-30	≥-57	CW	6.19	10	Pass
			2503.5	-86	-24	≥-57	CW	6.56	10	Pass
			2300	-82	-19	≥-47	CW	6.68	10	Pass
			2583.5	-85	-20	≥-47	CW	6.20	10	Pass
		2472	2380	-85	-31	≥-57	CW	6.03	10	Pass
			2503.5	-86	-32	≥-57	CW	5.95	10	Pass
			2300	-82	-21	≥-47	CW	6.19	10	Pass
			2583.5	-85	-17	≥-47	CW	5.79	10	Pass

Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11n20	2412	2380	-85	-27	≥-57	CW	6.06	10	Pass
			2503.5	-86	-29	≥-57	CW	5.18	10	Pass
			2300	-82	-27	≥-47	CW	6.01	10	Pass
			2583.5	-85	-21	≥-47	CW	5.59	10	Pass
		2472	2380	-85	-34	≥-57	CW	6.32	10	Pass
			2503.5	-86	-31	≥-57	CW	5.01	10	Pass
			2300	-82	-25	≥-47	CW	5.84	10	Pass
			2583.5	-85	-19	≥-47	CW	5.38	10	Pass

Wanted Signal Mean Power from Companion Device (dBm)	Test Mode	Test Channel (MHz)	Blocking Signal Frequency (MHz)	Pmin	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%		Test Result
					Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	802.11n40	2412	2380	-85	-31	≥-57	CW	6.90	10	Pass
			2503.5	-86	-23	≥-57	CW	5.02	10	Pass
			2300	-82	-24	≥-47	CW	5.05	10	Pass
			2583.5	-85	-24	≥-47	CW	6.10	10	Pass
		2472	2380	-85	-29	≥-57	CW	5.35	10	Pass
			2503.5	-86	-26	≥-57	CW	6.74	10	Pass
			2300	-82	-21	≥-47	CW	5.35	10	Pass
			2583.5	-85	-20	≥-47	CW	5.94	10	Pass