RADIO TEST REPORT
ETSI EN 300 328 V2.2.2 (2019-07)

Product： Smart phone

Trade Mark： Blackview

Model Name： A52

Family Model： N/A

Report No.： STR220826001001E

Prepared for

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK, CHINA

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	DOKE COMMUNICATION (HK) LIMITED
Address	:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK, CHINA
Manufacturer's Name	:	Shenzhen DOKE Electronic Co.,Ltd
Address	:	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China

Product description

Product name	:	Smart phone
Trademark	:	Blackview
Model Name	:	A52
Family Model	:	N/A
Standards	:	ETSI EN 300 328 V2.2.2 (2019-07)

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 article 3.2 of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.
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Test Sample Number T220826001R003

Date of Test .....

Date (s) of performance of tests ..... Aug 26, 2022 ~ Sep 14, 2022

Date of Issue ..... Sep 14, 2022

Test Result ..... **Pass**

Testing Engineer : Mukzi Lee
(Mukzi Lee)

Authorized Signatory : Alex Li
(Alex Li)

NTEK Testing Technology Co., Ltd. Shenzhen NTEK Report Seal

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Revision History

Report No.	Version	Description	Issued Date
STR220826001001E	Rev.01	Initial issue of report	Sep 14, 2022

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart phone
Trade Mark	Blackview
Model Name.	A52
Family Model	N/A
Model Difference	N/A
Product Description	The EUT is Smart phone Operation Frequency: 2402~2480 MHz Modulatin Type: GFSK,π/4-DQPSK,8-DPSK Modulation Technology: FHSS Adaptive/non-adaptive: Adaptive equipment Receiver categories: 2 Number Of Channel: 79CH Antenna Designation: PIFA Antenna Antenna Gain(Peak): 1.04 dBi 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.
Channel List	Refer to below Table
Adapter	Model: QZ-01000EA00 Input: 100-240V~50/60Hz 0.15A Output: 5.0V⎓2.0A (10.0W)
Battery	DC 3.85V, 5180mAh, 19.943Wh
Rating	DC 3.85V from battery or DC 5V from Adapter.
I/O Ports	Refer to users manual
Hardware Version	L617_V1
Software Version	S6317A_Duokoo_A52_EEA_V1.01

Note:

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

2.

79 channels are provided to (GFSK, π/4-DQPSK, 8-DPSK)

Channel	Frequency (MHz
00	2402
01	2403
……	……
……	……
……	…
……	……
77	2479
78	2480

1.2 INFORMATION ABOUT THE EUT

a) The type of modulation used by the equipment:

☒ FHSS

☐ other forms of modulation

b) In case of FHSS modulation:

- In case of non-Adaptive Frequency Hopping equipment:

  The number of Hopping Frequencies: ……..

- In case of Adaptive Frequency Hopping Equipment:

  The maximum number of Hopping Frequencies: 79

  The minimum number of Hopping Frequencies: 79

- The (average) Dwell Time: 335.088s Maximum

c) Adaptive / non-adaptive equipment:

☐ non-adaptive Equipment

☒ adaptive Equipment without the possibility to switch to a non-adaptive mode

☐ adaptive Equipment which can also operate in a non-adaptive mode

d) In case of adaptive equipment:

The maximum Channel Occupancy Time implemented by the equipment: ..../..... ms

☒ The equipment has implemented an LBT based DAA mechanism

- In case of equipment using modulation different from FHSS:

☐ The equipment is Frame Based equipment

☐ The equipment is Load Based equipment

☐ The equipment can switch dynamically between Frame Based and Load Based equipment

The CCA time implemented by the equipment: ...../.. μs

☐ The equipment has implemented a non-LBT based DAA mechanism

☐ The equipment can operate in more than one adaptive mode

e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.):

The maximum (corresponding) Duty Cycle:

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

f) The worst case operational mode for each of the following tests:

- RF Output Power

  GFSK
- Power Spectral Density

  N/A
- Duty cycle, Tx-Sequence, Tx-gap

  N/A
- Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment)

  π/4-DQPSK
- Hopping Frequency Separation (only for FHSS equipment)

  π/4-DQPSK
- Medium Utilization

  N/A
- Adaptivity

  N/A
- Receiver Blocking

  GFSK
- Nominal Channel Bandwidth

  8-DPSK
- Transmitter unwanted emissions in the OOB domain

  8-DPSK
- Transmitter unwanted emissions in the spurious domain

  GFSK
- Receiver spurious emissions

  GFSK

g) The different transmit operating modes (tick all that apply):

☒ Operating mode 1: Single Antenna Equipment

☒ Equipment with only one antenna

☐ Equipment with two diversity antennas but only one antenna active at any moment in time

☐ Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only one antenna is used (e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)

☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming

☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2

NOTE 1: Add more lines if more channel bandwidths are supported.

☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming

☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2

NOTE 2: Add more lines if more channel bandwidths are supported.

h) In case of Smart Antenna Systems:

- The number of Receive chains: .....
- The number of Transmit chains: .....

☐ symmetrical power distribution

☐ asymmetrical power distribution

In case of beam forming, the maximum (additional) beam forming gain: ..... dB

NOTE: The additional beam forming gain does not include the basic gain of a single antenna.

i) Operating Frequency Range(s) of the equipment:

- Operating Frequency Range 1: 2402 MHz to 2480 MHz
- Operating Frequency Range 2: ..... MHz to ..... MHz

NOTE: Add more lines if more Frequency Ranges are supported.

j) Nominal Channel Bandwidth(s):

- Nominal Channel Bandwidth 1: 1.203MHz
- Nominal Channel Bandwidth 2: ...../..... MHz

NOTE: Add more lines if more channel bandwidths are supported.

k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):

☒ Stand-alone

☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)

☐ Plug-in radio device (Equipment intended for a variety of host systems)

☐ Other

l) The normal and the extreme operating conditions that apply to the equipment:

Normal operating conditions (if applicable):

Operating temperature: 15℃~35℃

Other (please specify if applicable): ……

Extreme operating conditions:

Operating temperature range: Minimum: -10℃ Maximum 40℃

Other (please specify if applicable): …… Minimum: …… Maximum ……

Details provided are for the:

☒ stand-alone equipment

☐ combined (or host) equipment

☐ test jig

m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p. levels:

● Antenna Type: PIFA Antenna

☒ Integral Antenna (information to be provided in case of conducted measurements)

Antenna Gain: 1.04 dBi

If applicable, additional beamforming gain (excluding basic antenna gain): ...../..... dB

☐ Temporary RF connector provided

☐ No temporary RF connector provided

☐ Dedicated Antennas (equipment with antenna connector)

☐ Single power level with corresponding antenna(s)

☐ Multiple power settings and corresponding antenna(s)

Number of different Power Levels: .....

Power Level 1: ..... dBm

Power Level 2: ..... dBm

Power Level 3: ..... dBm

NOTE 1: Add more lines in case the equipment has more power levels.

NOTE 2: These power levels are conducted power levels (at antenna connector).

●For each of the Power Levels, provide the intended antenna assemblies, their corresponding gains (G) and the resulting e.i.r.p. levels also taking into account the beamforming gain (Y) if applicable

Power Level 1: ..... dBm

Number of antenna assemblies provided for this power level: .....

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1	1.04	7.86	
2			
3			

NOTE 3: Add more rows in case more antenna assemblies are supported for this power level.

Power Level 2: ..... dBm

Number of antenna assemblies provided for this power level: .....

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1			
2			
3			

NOTE 4: Add more rows in case more antenna assemblies are supported for this power level.

Power Level 3: ..... dBm

Number of antenna assemblies provided for this power level: .....

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1			
2			
3			

NOTE 5: Add more rows in case more antenna assemblies are supported for this power level.

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:

Details provided are for the:

☒ stand-alone equipment

☐ combined (or host) equipment

☐ test jig

Supply Voltage ☐ AC mains State AC voltage …….. V

☒ DC State DC voltage: DC 3.85V

In case of DC, indicate the type of power source

☐ Internal Power Supply

☒ External Power Supply or AC/DC adapter: DC 5V

☒ Battery: DC 3.85V

☐ Other: .....

o) Describe the test modes available which can facilitate testing:

See clause 1.4

p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):

Bluetooth®

q) If applicable, the statistical analysis referred to in clause 5.4.1 q)

(to be provided as separate attachment)

r) If applicable, the statistical analysis referred to in clause 5.4.1 r)

(to be provided as separate attachment)

s) Geo-location capability supported by the equipment:

☐ Yes

☐ The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user

☒ No

t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3):

GFSK(CH78) =0.57%

1.3 TEST CONDITIONS

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

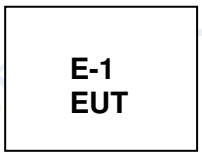
Note:
(1) The HT 40℃ and LT -10℃ was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.
(2) The measurements are performed at the highest, middle, lowest available channels.

1.4 TEST CONFIGURATION OF EUT

Modulation Used For Conformance Testing		
Bluetooth mode	Data rate	Modulation type
BR	1Mbps	GFSK
EDR	2Mbps	π/4-DQPSK
EDR	3Mbps	8-DPSK

Test Channel Frequencies Configuration		
Test Channel	EUT Channel	Test Frequency (MHz)
Lowest	CH00	2402
Middle	CH39	2441
Highest	CH78	2480

1.5 DESCRIPTION OF TEST CONDITIONS



1.6 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	Smart phone	A52	N/A	EUT

Item	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.

1.7 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	2022.04.06	2023.04.05	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	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	2022.03.31	2023.03.30	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.04.01	2023.03.31	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2022.06.17	2023.06.16	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2022.04.01	2023.03.31	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	2022.06.17	2023.06.16	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2022.04.01	2023.03.31	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	15I00041SNO 84	2022.06.17	2023.06.16	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2022.06.16	2023.06.15	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2022.06.16	2023.06.15	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

ETSI EN 300 328 V2.2.2 (2019-07)		
Clause	Test Item	Results
TRANSMITTER PARAMETERS		
4.3.1.2	RF Output Power	Pass
4.3.1.3	Duty cycle, Tx-Sequence, Tx-gap	Not Applicable (See Note 1/2)
4.3.1.4	Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	Pass
4.3.1.5	Hopping Frequency Separation	Pass
4.3.1.6	Medium Utilization (MU) factor	Not Applicable (See Note 1/2)
4.3.1.7	Adaptivity	Not Applicable (See Note 1)
4.3.1.8	Occupied Channel Bandwidth	Pass
4.3.1.9	Transmitter unwanted emission in the OOB domain	Pass
4.3.1.10	Transmitter unwanted emissions in the spurious domain	Pass
RECEIVER PARAMETERS		
4.3.1.11	Receiver Spurious Emissions	Pass
4.3.1.12	Receiver Blocking	Pass

Note:
1. These requirements do not apply for equipment with a maximum declared RF output power of less than 10 dBm EIRP or for equipment when operating in a mode where the RF output power is less than 10 dBm EIRP.
2. These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode
3. The antenna gain provided by customer is used to calculate the EIRP result. NTEK is not responsible for the accuracy of antenna gain parameter.

2.1 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.: 463705 IC Registered No.:9270A-1
CNAS Registration No.:L5516

2.2 MAXIMUM MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1[4] and shall correspond to an expansion factor(coverage factor) k=1.96 or k=2 (which provide confidence levels of respectively **95** % and **95.45** % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Maximum measurement uncertainty

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	± 5%
2	RF output Power,conducted	±1.5dB
3	Power Spectral Density, conducted	± 3dB
4	Unwanted emissions, conducted	± 3dB
5	All emissions,radiated	± 6dB
6	Temperature	± 3°C
7	Humidity	± 3%
9	Time	± 5%

TRANSMITTER PARAMETERS

3. RF OUTPUT POWER

3.1 LIMITS OF RF OUTPUT POWER

Refer to chapter 4.3.1.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RF OUTPUT POWER	
Condition	Limit
☐ Non-adaptive frequency hopping systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.
☒ Adaptive frequency hopping systems	equal to or less than 20 dBm.

3.2 TEST PROCEDURE

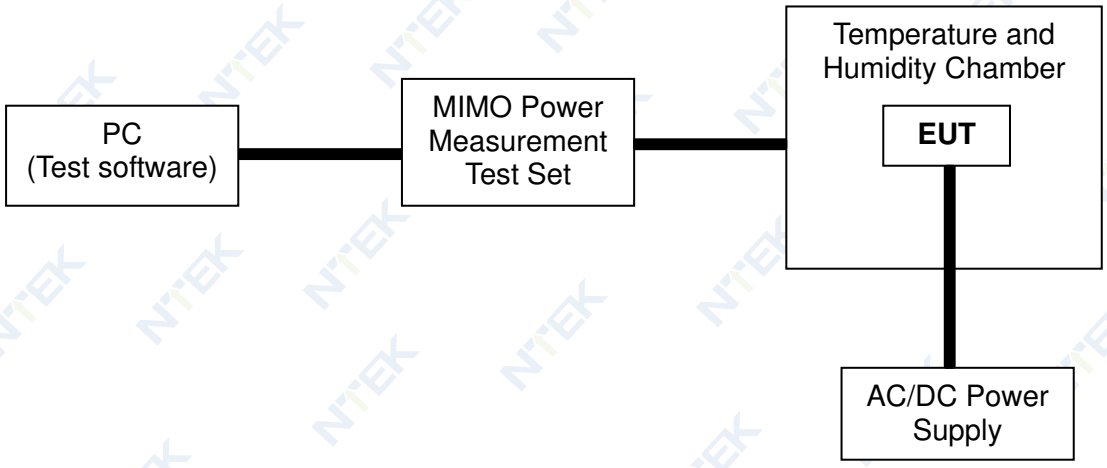
Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☐Radiated measurement

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 TEST RESULTS

EUT：	Smart phone	Model Name ：	A52
Temperature：	20°C	Relative Humidity：	55 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	BT-GFSK/π/4-DQPSK /8-DPSK		

Test data reference attachment

4. ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE

4.1 LIMITS OF ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE

Refer to chapter 4.3.1.4.3 of ETSI EN 300 328 V2.2.2 (2019-07)

Accumulated Transmit Time	
Condition	Limit
☐ Non-adaptive frequency hopping systems	≤ 15 ms[15 ms * the minimum number of hopping frequencies (N)]
☒ Adaptive frequency hopping systems	≤ 400 ms in [400 ms * the minimum number of hopping frequencies (N)]
MINIMUM FREQUENCY OCCUPATION TIME	
Condition	Limit
☐ Non-adaptive frequency hopping systems	Each hopping frequency of the hopping sequence shall be occupied at least once within a period not exceeding four times the product of the dwell time and the number of hopping frequencies in use.
☒ Adaptive frequency hopping systems	
HOPPING SEQUENCE (S)	
Condition	Limit
☐ Non-adaptive frequency hopping systems	≥15 hopping frequencies or 15/minimum
☒ Adaptive frequency hopping systems	Operating over a minimum of 70% of the Operating in the band 2.4 GHz to 2.4835 GHz
	≥15 hopping frequencies or 15/minimum

4.2 TEST PROCEDURE

Refer to chapter 5.4.4 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☐Radiated measurement

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP

The measurements only were performed at normal test conditions. The equipment was configured to operate at its maximun Dwell time and maximum Duty Cycle. The measurement was performed on a minimum of 2 hopping frequencies chosen arbitrary from the actual hopping sequence. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

4.5 TEST RESULTS

EUT：	Smart phone	Model Name ：	A52
Temperature：	26°C	Relative Humidity	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	BT-GFSK/π/4-DQPSK /8-DPSK-Hopping Mode		

Test data reference attachment

5. OCCUPIED CHANNEL BANDWIDTH

5.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH

Refer to chapter 4.3.1.8.3 of ETSI EN 300 328 V2.2.2 (2019-07)

OCCUPIED CHANNEL BANDWIDTH		
Condition		Limit
All types of equipment		Shall fall completely within the band 2400 to 2483.5 MHz
Additional requirement	For non-adaptive using wide band modulations other than FHSS system and EIRP >10 dBm	Less than 20 MHz
	For non-adaptive frequency hopping system and EIRP >10 dBm	Less than 5 MHz

5.2 TEST PROCEDURE

Refer to chapter 5.4.7.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☐Radiated measurement

The setting of the Spectrum Analyzer

Center Frequency	The centre frequency of the channel under test
Frequency Span	2 × Nominal Channel Bandwidth
Detector	RMS
RBW	~ 1 % of the span without going below 1 %
VBW	3 × RBW
Trace	Max hold
Sweep time	1s

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

These measurements only were performed at normal test conditions. The measurement shall be performed only on the lowest and the highest frequency within the ststed frequency range. Using software to force the EUT to hop or transmit on a single Hopping frequency. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

5.5 TEST RESULTS

EUT：	Smart phone	Model Name ：	A52
Temperature：	26°C	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	BT-GFSK/π/4-DQPSK /8-DPSK-(CH00/CH78)		

Test data reference attachment

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

6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Refer to chapter 4.3.1.9.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN	
Condition	Limit
Under all test conditions	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 below figure.

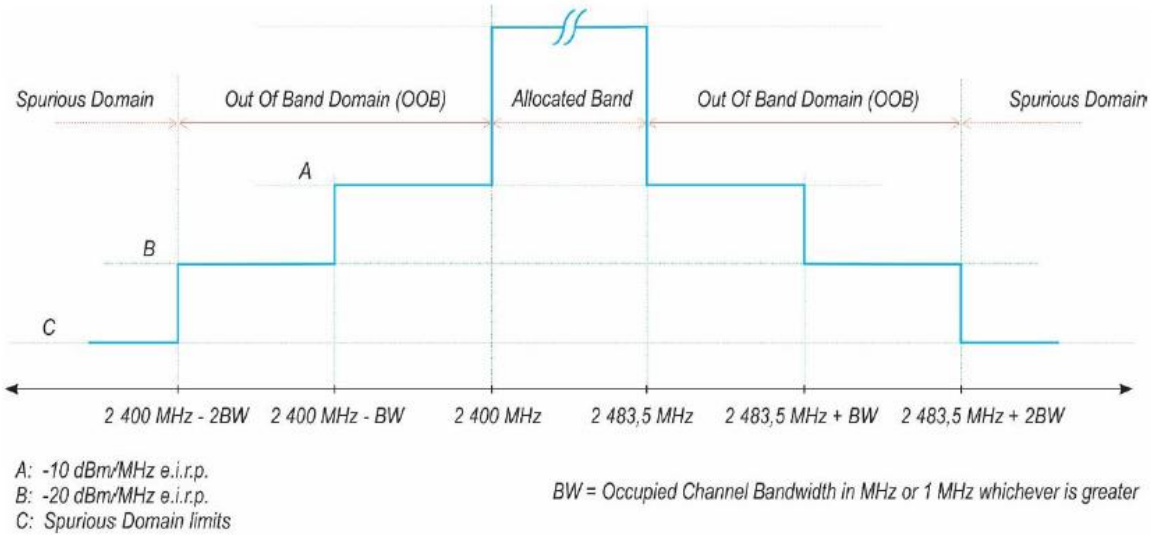


Figure 1: Transmit mask

6.2 TEST PROCEDURE

Refer to chapter 5.4.8.2of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☐Radiated measurement

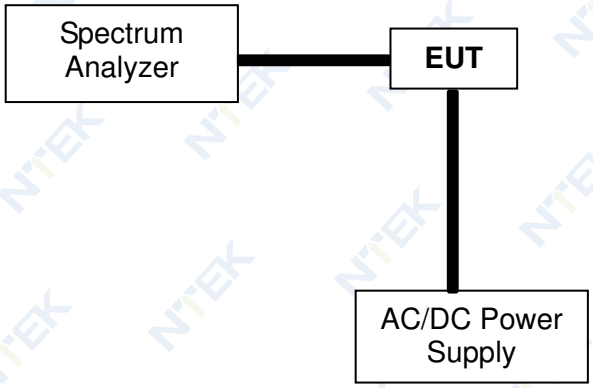
The setting of the Spectrum Analyzer

Span	0Hz
Filter Mode	Channel Filter
Trace Mode	Clear/Write
Trigger Mode	Video Trigger
Detector	RMS
Sweep Point / Sweep Mode	5000 / Continuous
RBW / VBW	1MHz / 3MHz

6.3 DEVIATION FROM TEST STANDARD

No deviation

6.4 TEST SETUP



According to the EN 300328 V2.2.2 clause 5.4.8.1: These measurements shall only be performed at normal test conditions. For equipment using FHSS modulation, the measurements shall be performed during normal operation (hopping).

For equipment using wide band modulations other than FHSS, the measurement shall be performed at the lowest and the highest channel on which the equipment can operate. These operating channels shall be recorded.

The equipment shall be configured to operate under its worst case situation with respect to output power.

If the equipment can operate with different Nominal Channel Bandwidths (e.g. 20 MHz and 40 MHz), then each channel bandwidth shall be tested separately.

6.5 TEST RESULTS

EUT：	Smart phone	Model Name ：	A52
Temperature：	26°C	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	BT-GFSK/π/4-DQPSK /8-DPSK-(CH78)		

Test data reference attachment

7. HOPPING FREQUENCY SEPARATION

7.1 LIMITS OF HOPPING FREQUENCY SEPARATION

Refer to chapter 4.3.1.5.3 of ETSI EN 300 328 V2.2.2 (2019-07)

HOPPING FREQUENCY SEPARATION	
Condition	Limit
☐ Non-adaptive frequency hopping systems	The minimum Hopping Frequency Separation shall be equal to or greater than occupide channel bandwidth of a single hop, with a minimum separation of 100 kHz.
☒ Adaptive frequency hopping systems	The minimum Hopping Frequency Separation shall be 100 kHz.

7.2 TEST PROCEDURE

Refer to chapter 5.4.5.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☐Radiated measurement

The setting of the Spectrum Analyzer

Center Frequency	Centre of the two adjacent hopping frequencies
Frequency Span	Sufficient to see the complete power envelope of both hopping frequencies
Detector	Max Peak
RBW	~ 1 % of the span
VBW	3 × RBW
Trace	Max hold
Sweep Time	Auto

7.3 DEVIATION FROM TEST STANDARD

No deviation

7.4 TEST SETUP

The measurements were performed at normal test conditions. The measurement was performed on 2 adjacent hopping frequencies. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

7.5 TEST RESULTS

EUT：	Smart phone	Model Name ：	A52
Temperature：	26°C	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	BT-GFSK/π/4-DQPSK /8-DPSK-(CH00/CH39/CH78)		

Test data reference attachment

Note: 1.The limitation is from OCB of a single hop and this value must greater and equal to 100kHz.
2.The device will never “hop” to its neighbour channel, therefore the “effective” channel separation becomes 2x the “normal” channel separation.

8. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

8.1 LIMITS OF TRANSMITTER TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Refer to chapter 4.3.1.10.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN		
Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Bandwidth
30 MHz to 47 MHz	-36dBm	100 kHz
47 MHz to 74 MHz	-54dBm	100 kHz
74 MHz to 87.5 MHz	-36dBm	100 kHz
87.5 MHz to 118 MHz	-54dBm	100 kHz
118 MHz to 174 MHz	-36dBm	100 kHz
174 MHz to 230 MHz	-54dBm	100 kHz
230 MHz to 470 MHz	-36dBm	100 kHz
470 MHz to 694 MHz	-54dBm	100 kHz
694 MHz to 1 GHz	-36dBm	100 kHz
1 GHz ~ 12.75 GHz	-30dBm	1 MHz

8.2 TEST PROCEDURE

Refer to chapter 5.4.9.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☒Radiated measurement

The setting of the Spectrum Analyzer

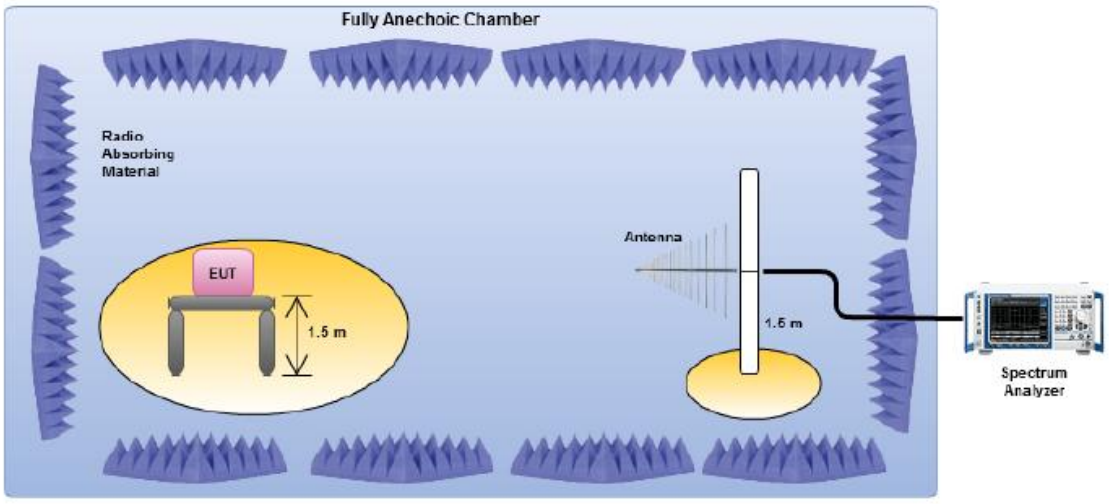
RBW	100K(＜1GHz) / 1M(＞1GHz)
VBW	300K(＜1GHz) / 3M(＞1GHz)

8.3 DEVIATION FROM TEST STANDARD

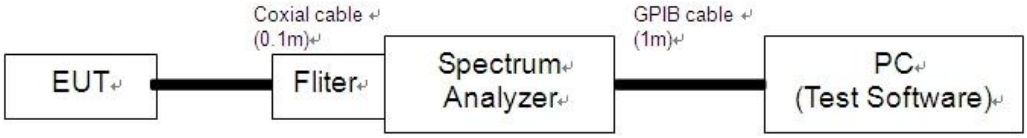
No deviation

8.4 TEST SETUP

Radiated measurement:



Conducted measurement:



1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).

2. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.

3. The equipment was configured to operate under its worst case situation with respect to output power.

4. The test setup has been constructed as the normal use condition. Controlling software (Button Function) has been activated to set the EUT on specific status.

8.5 TEST RESULTS (Radiated measurement)

BELOW 1 GHz WORST- CASE DATA (30 MHz ~ 1GHz)

EUT：	Smart phone	Model Name ：	A52
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	BT-GFSK (CH00)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	38.77	-76.71	10.77	-65.94	-36	-29.94	peak
V	112.783	-75.32	11.27	-64.05	-54	-10.05	peak
V	194.143	-71.76	11.28	-60.48	-54	-6.48	peak
V	313.457	-75.06	11.24	-63.82	-36	-27.82	peak
V	618.987	-67.64	9.65	-57.99	-54	-3.99	peak
H	39.563	-74.23	10.56	-63.67	-36	-27.67	peak
H	109.863	-75.22	10.26	-64.96	-54	-10.96	peak
H	206.536	-70.37	10.89	-59.48	-54	-5.48	peak
H	319.516	-72.75	11.14	-61.61	-36	-25.61	peak
H	644.211	-73.61	11.15	-62.46	-54	-8.46	peak

Remark:
1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

EUT：	Smart phone	Model Name ：	A52
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	GFSK (CH00/CH39/CH78)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
operation frequency:2402							
V	2366.29	-74.07	10.31	-63.76	-30	-33.76	peak
V	5671.949	-77.7	9.81	-67.89	-30	-37.89	peak
V	2248.125	-77.31	11.00	-66.31	-30	-36.31	peak
V	5679.21	-76.43	9.93	-66.50	-30	-36.50	peak
H	2137.752	-69.79	10.58	-59.21	-30	-29.21	peak
H	4414.072	-75.53	11.28	-64.25	-30	-34.25	peak
H	2919.64	-72.49	10.24	-62.25	-30	-32.25	peak
H	4830.787	-67.95	10.38	-57.57	-30	-27.57	peak
operation frequency:2441							
V	2519.505	-70.39	10.27	-60.12	-30	-30.12	peak
V	5407.488	-68.84	10.30	-58.54	-30	-28.54	peak
V	2207.979	-73.33	10.47	-62.86	-30	-32.86	peak
V	4164.96	-67.86	10.91	-56.95	-30	-26.95	peak
H	2090.488	-75.23	9.92	-65.31	-30	-35.31	peak
H	4267.342	-70.49	9.65	-60.84	-30	-30.84	peak
H	2252.024	-73.11	9.67	-63.44	-30	-33.44	peak
H	5481.177	-73.16	11.42	-61.74	-30	-31.74	peak
operation frequency:2480							
V	2953.453	-75.32	10.15	-65.17	-30	-35.17	peak
V	4423.611	-74.5	9.79	-64.71	-30	-34.71	peak
V	2715.937	-68.27	10.81	-57.46	-30	-27.46	peak
V	5848.68	-67.94	10.91	-57.03	-30	-27.03	peak
H	2703.961	-75.23	11.47	-63.76	-30	-33.76	peak
H	5745.383	-70.1	10.40	-59.70	-30	-29.70	peak
H	2495.103	-70.82	10.65	-60.17	-30	-30.17	peak
H	3037.302	-68.93	10.58	-58.35	-30	-28.35	peak

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

8.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

9. RECEIVER SPURIOUS EMISSIONS

9.1 LIMITS OF RECEIVER SPURIOUS RADIATION

Refer to chapter 4.3.1.11.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RECEIVER SPURIOUS EMISSIONS		
Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Measurement Bandwidth
30 MHz ~ 1 GHz	-57dBm	100KHz
1 GHz ~ 12.75 GHz	-47dBm	1MHz

9.2 TEST PROCEDURE

Refer to chapter 5.4.10.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☒Radiated measurement

The setting of the Spectrum Analyzer

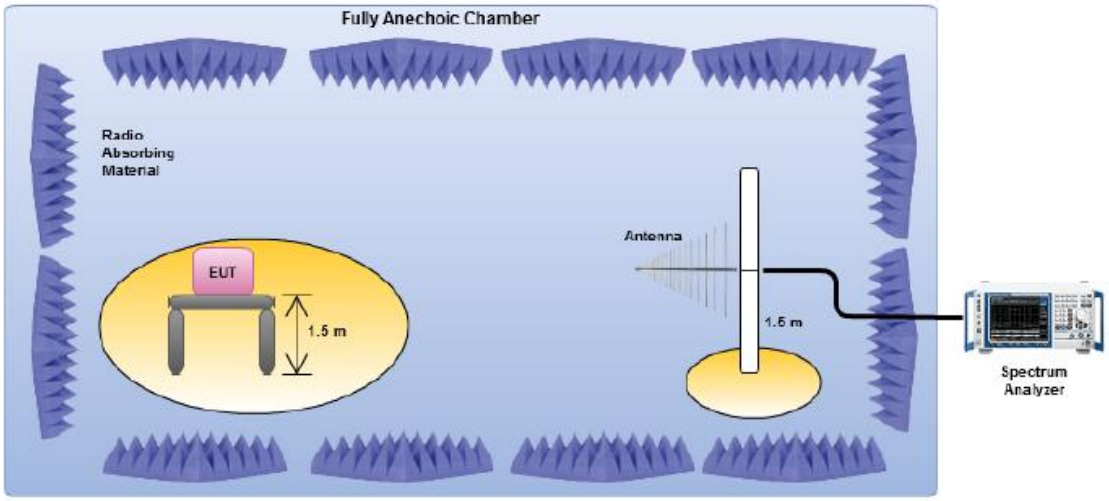
RBW	100K(＜1GHz) / 1M(＞1GHz)
VBW	300K(＜1GHz) / 3M(＞1GHz)

9.3 DEVIATION FROM TEST STANDARD

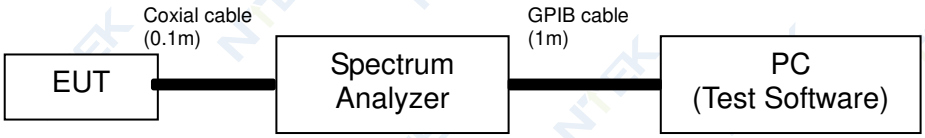
No deviation

9.4 TEST SETUP

Radiated measurement:



Conducted measurement:



1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
2. Testing was performed when the equipment was in a receive-only mode.
3. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
4. The test setup has been constructed as the normal use condition. Controlling software (Button Function) has been activated to set the EUT on specific status.

9.5 TEST RESULTS (Radiated measurement)

RX BELOW 1 GHz WORST- CASE DATA (30 MHz ~ 1GHz)

EUT：	Smart phone	Model Name ：	A52
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	GFSK(CH00)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	39.953	-83.33	12.28	-71.05	-57	-14.05	peak
V	108.681	-79.58	16.14	-63.44	-57	-6.44	peak
V	191.324	-84.04	14.06	-69.98	-57	-12.98	peak
V	375.436	-80.31	17.05	-63.26	-57	-6.26	peak
V	567.544	-83.9	15.59	-68.31	-57	-11.31	peak
H	37.462	-78.2	14.67	-63.53	-57	-6.53	peak
H	107.966	-80.82	17.96	-62.86	-57	-5.86	peak
H	194.515	-81.35	16.74	-64.61	-57	-7.61	peak
H	425.219	-84.63	15.83	-68.80	-57	-11.80	peak
H	560.091	-79.65	17.58	-62.07	-57	-5.07	peak

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

RX ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

EUT：	Smart phone	Model Name ：	A52
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	GFSK (CH00)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	2398.541	-79.99	10.51	-69.48	-47	-22.48	peak
V	3203.647	-81.03	10.32	-70.71	-47	-23.71	peak
V	2910.758	-77.45	10.64	-66.81	-47	-19.81	peak
V	5858.151	-78.7	16.99	-61.71	-47	-14.71	peak
H	2880.4	-83.11	10.36	-72.75	-47	-25.75	peak
H	5289.725	-77.53	11.41	-66.12	-47	-19.12	peak
H	2010.091	-80.47	6.80	-73.67	-47	-26.67	peak
H	4347.301	-78.4	15.14	-63.26	-47	-16.26	peak

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

9.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

10. RECEIVER BLOCKING

10.1 PERFORMANCE CRITERIA

The minimum performance criterion shall be a PER 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.t)).

10.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.1.12.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 6, table 7 or table 8.

☐Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	**Blocking signal Frequency (MHz)**	**Blocking signal power (dBm) (see note 4)**	**Type of blocking signal**
(-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2524 2584 2674		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

☒**Table 7: Receiver Blocking parameters receiver category 2 equipment**

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	**Blocking signal Frequency (MHz)**	**Blocking signal power (dBm) (see note 3)**	**Type of blocking signal**
(-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements,this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

☐**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**
(-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

10.3 TEST PROCEDURE

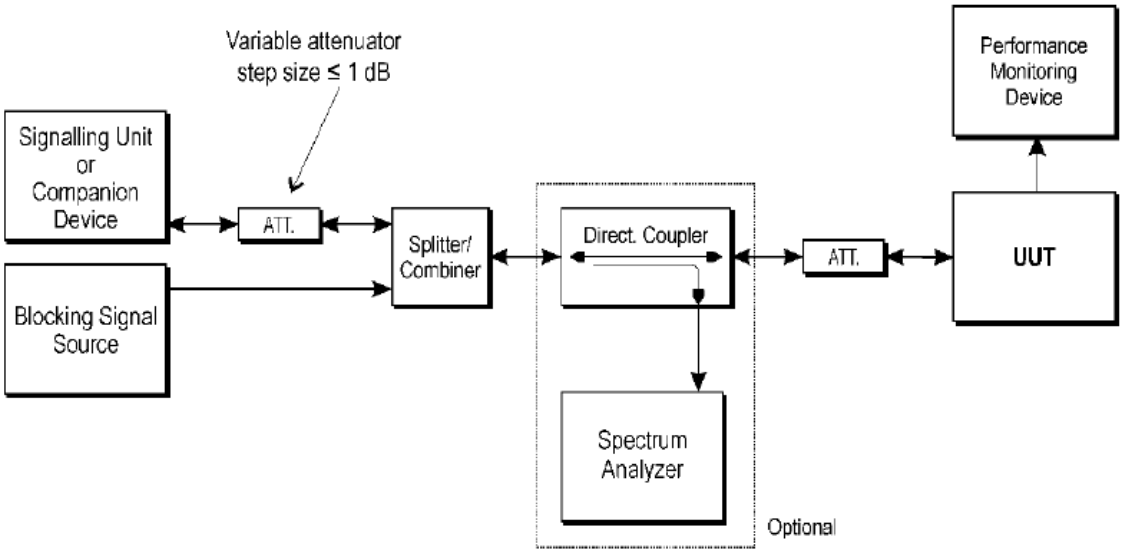
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☒Conducted measurement	☐Radiated measurement

10.4 DEVIATION FROM TEST STANDARD

No deviation

10.5 TEST SETUP



10.6 TEST RESULTS

EUT：	Smart phone	Model Name ：	A52
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.85V
Test Mode ：	GFSK Hopping mode (RX)		

CH00

receiver category 2

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal Frequency (MHz)	Blocking signal power(dBm) (see note 3)	PER %	PER Limit %
-69.58	2 380	-34	0.34%	≤10
	2 504		0.52%	
	2 300		0.17%	≤10
	2 584		0.43%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal Frequency (MHz)	Blocking signal power(dBm) (see note 3)	PER %	PER Limit %
-69.58	2 380	-34	0.27%	≤10
	2 504		0.44%	
	2 300		0.57%	≤10
	2 584		0.41%	

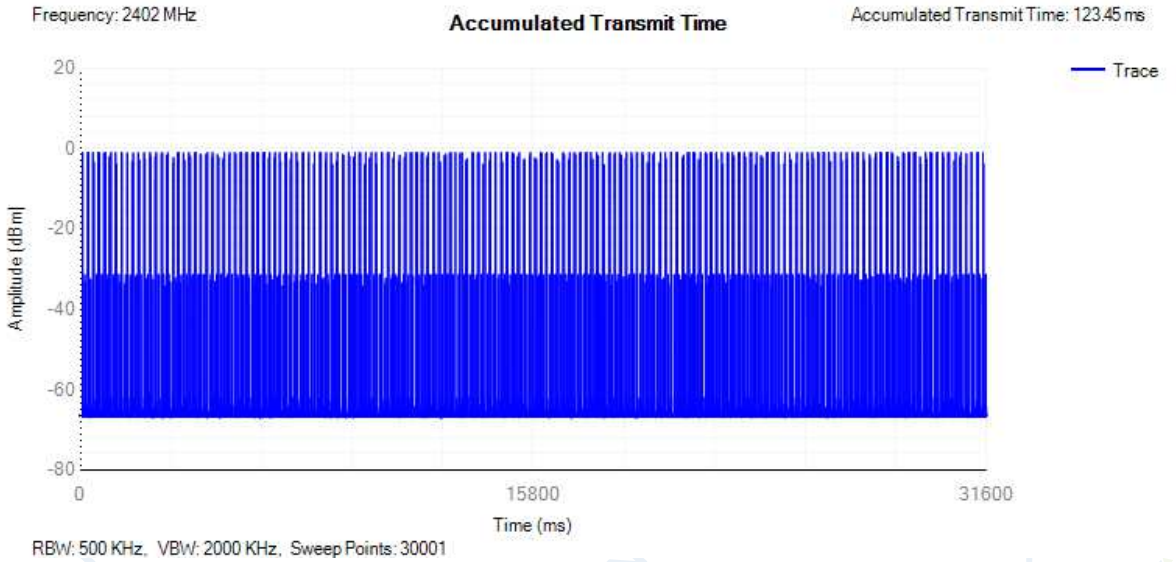
Note: (1) The above results were obtained from laboratory tests.

11. TEST RESULTS

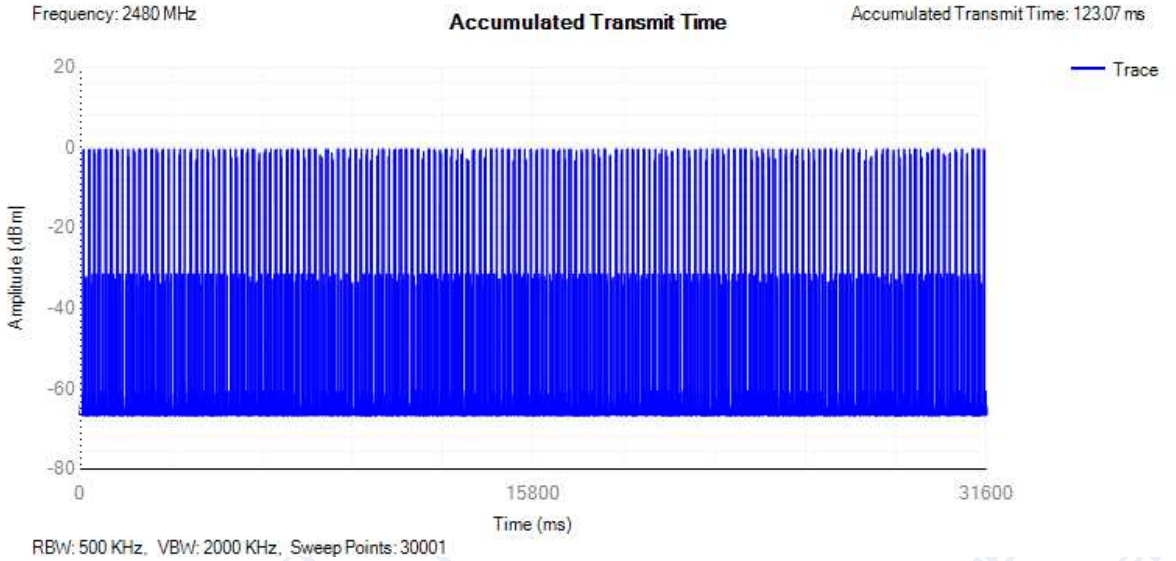
11.1 Accumulated Transmit Time

Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH1	2402	123.453	400	31600	319	Pass
NVNT	1-DH1	2480	123.066	400	31600	318	Pass
NVNT	1-DH3	2402	261.396	400	31600	159	Pass
NVNT	1-DH3	2480	276.192	400	31600	168	Pass
NVNT	1-DH5	2402	303.24	400	31600	105	Pass
NVNT	1-DH5	2480	280.912	400	31600	97	Pass
NVNT	2-DH1	2402	235.422	400	31600	638	Pass
NVNT	2-DH1	2480	121.92	400	31600	320	Pass
NVNT	2-DH3	2402	252.96	400	31600	155	Pass
NVNT	2-DH3	2480	262.752	400	31600	161	Pass
NVNT	2-DH5	2402	335.088	400	31600	117	Pass
NVNT	2-DH5	2480	273.6	400	31600	95	Pass
NVNT	3-DH1	2402	241.92	400	31600	640	Pass
NVNT	3-DH1	2480	238.452	400	31600	641	Pass
NVNT	3-DH3	2402	276.93	400	31600	170	Pass
NVNT	3-DH3	2480	266.172	400	31600	164	Pass
NVNT	3-DH5	2402	276.48	400	31600	96	Pass
NVNT	3-DH5	2480	313.048	400	31600	109	Pass

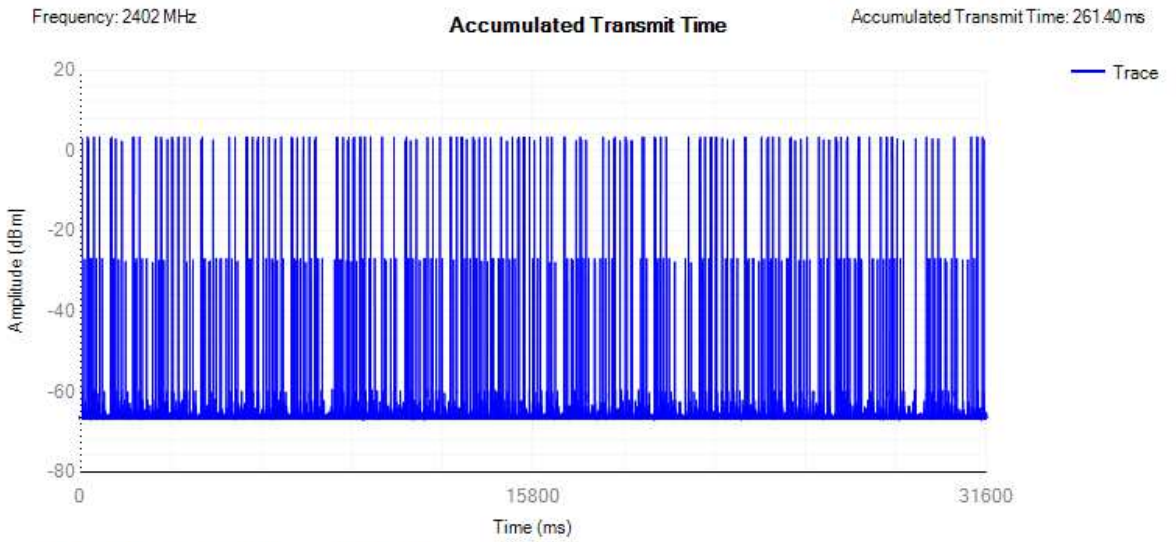
Dwell NVNT 1-DH1 2402MHz



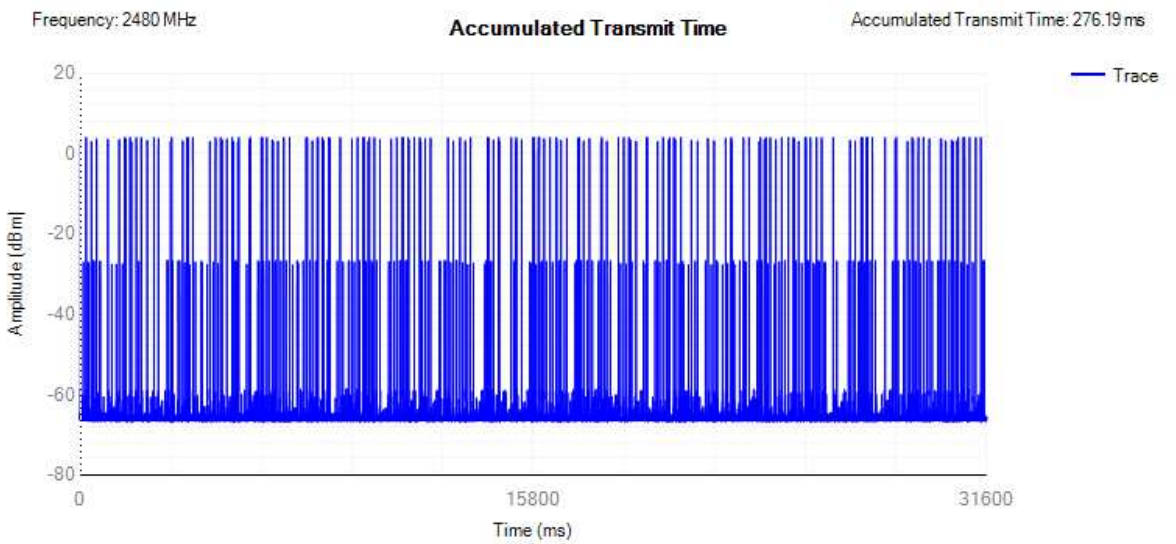
Dwell NVNT 1-DH1 2480MHz



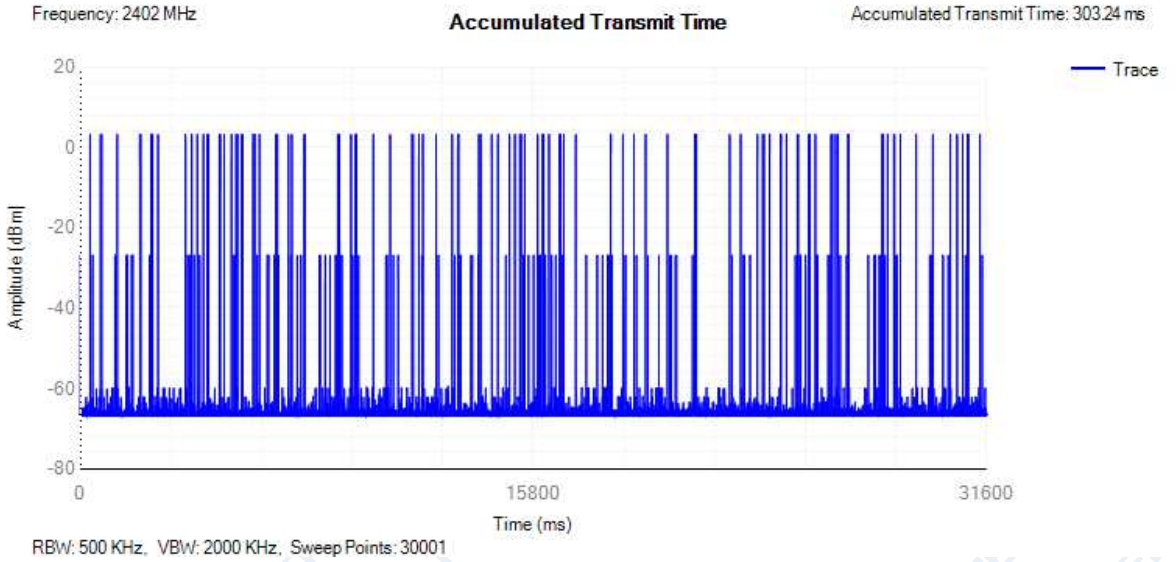
Dwell NVNT 1-DH3 2402MHz



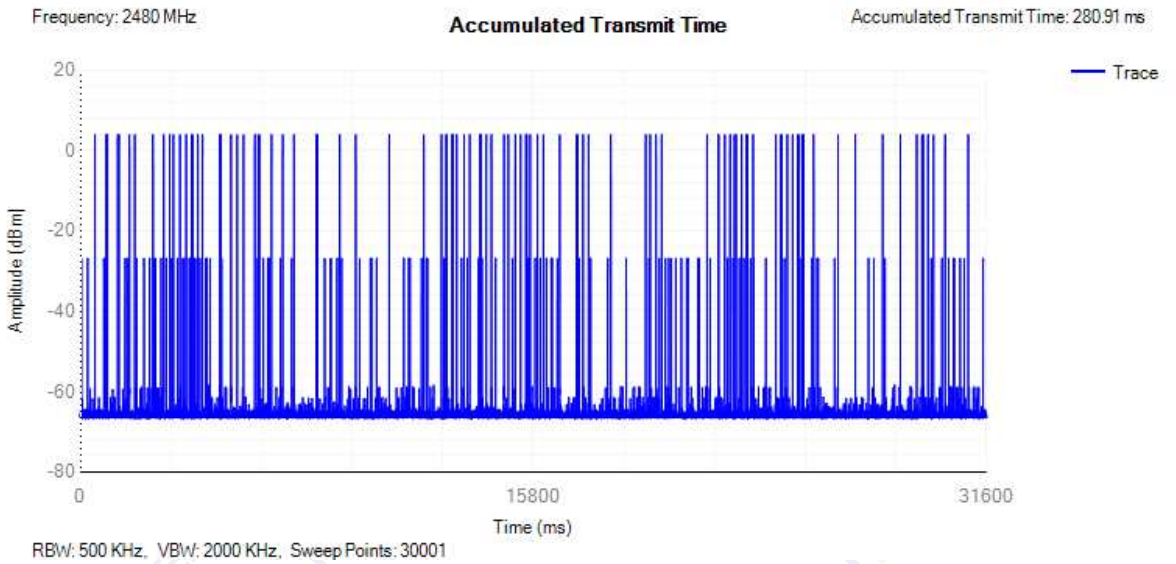
Dwell NVNT 1-DH3 2480MHz



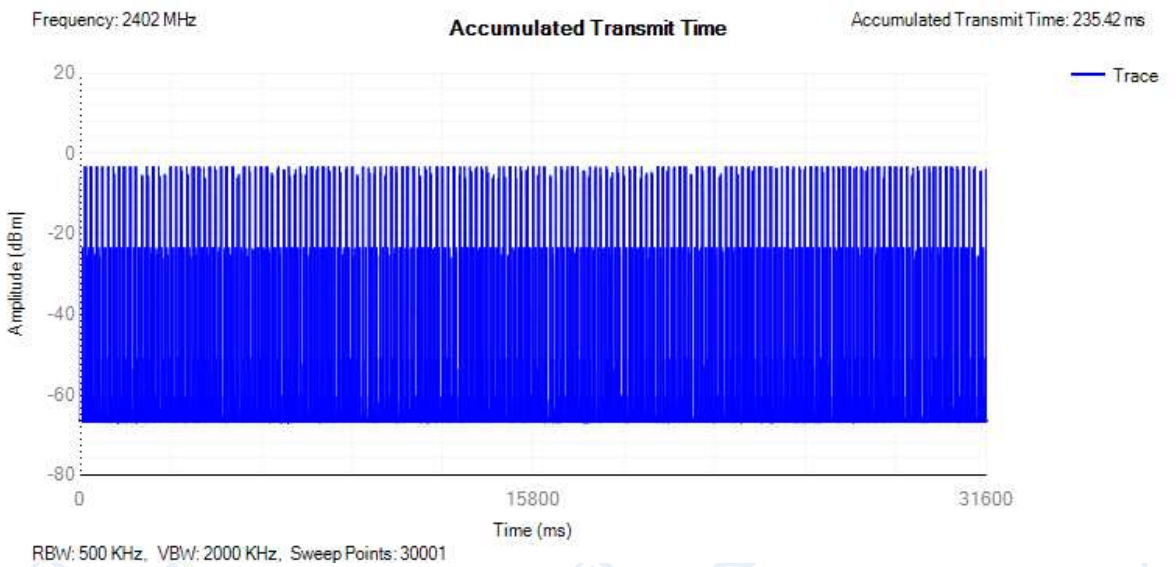
Dwell NVNT 1-DH5 2402MHz



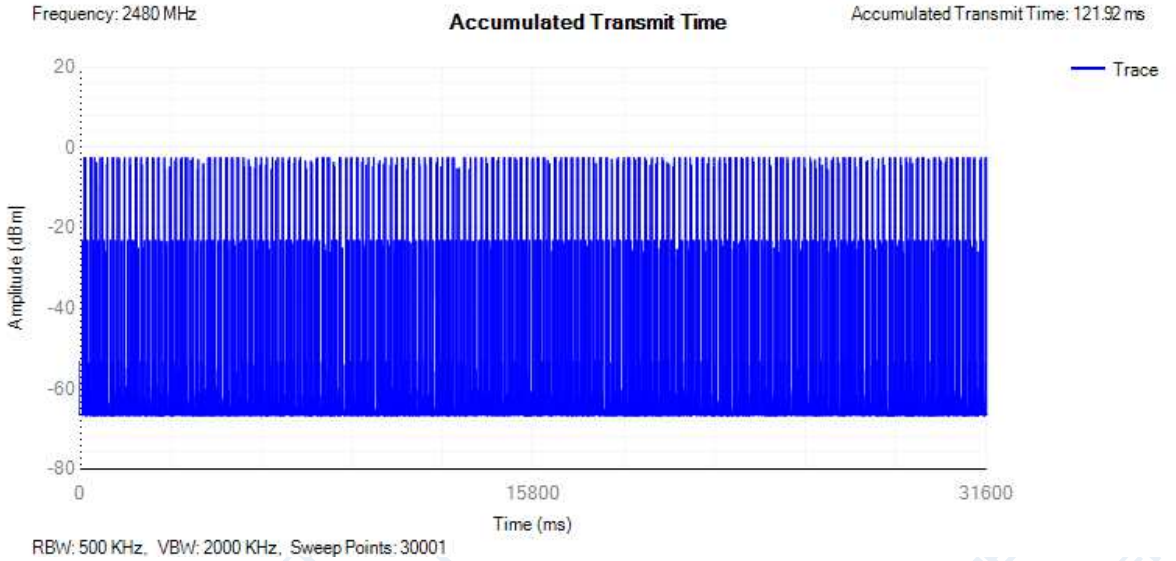
Dwell NVNT 1-DH5 2480MHz



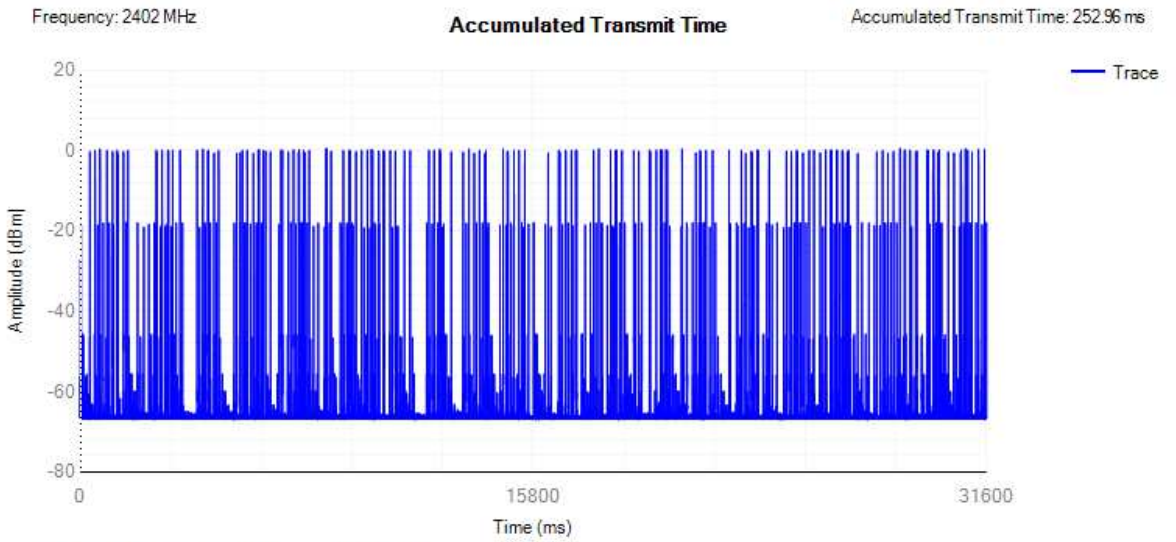
Dwell NVNT 2-DH1 2402MHz



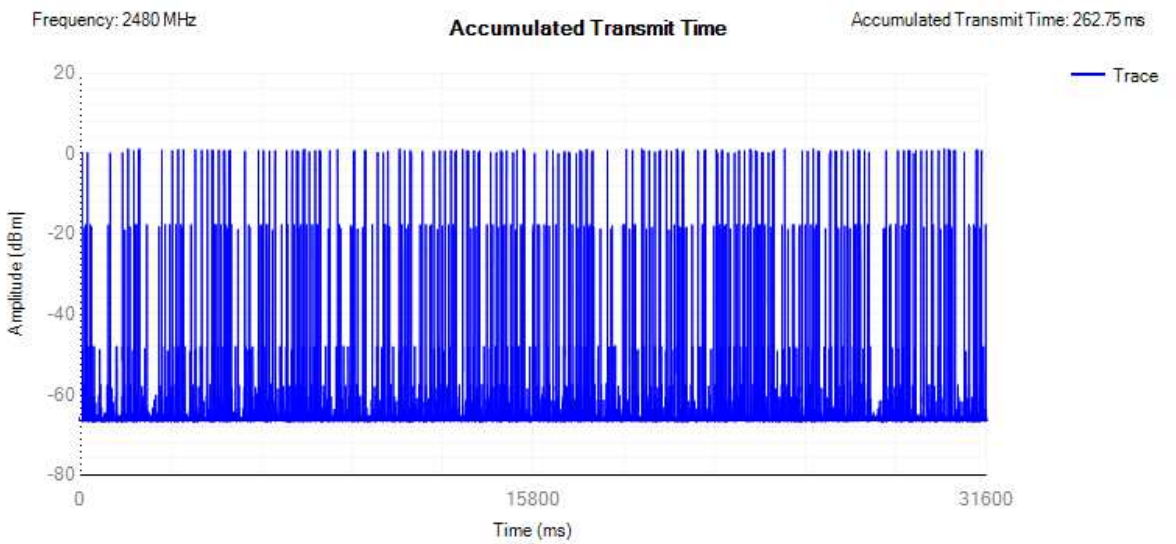
Dwell NVNT 2-DH1 2480MHz



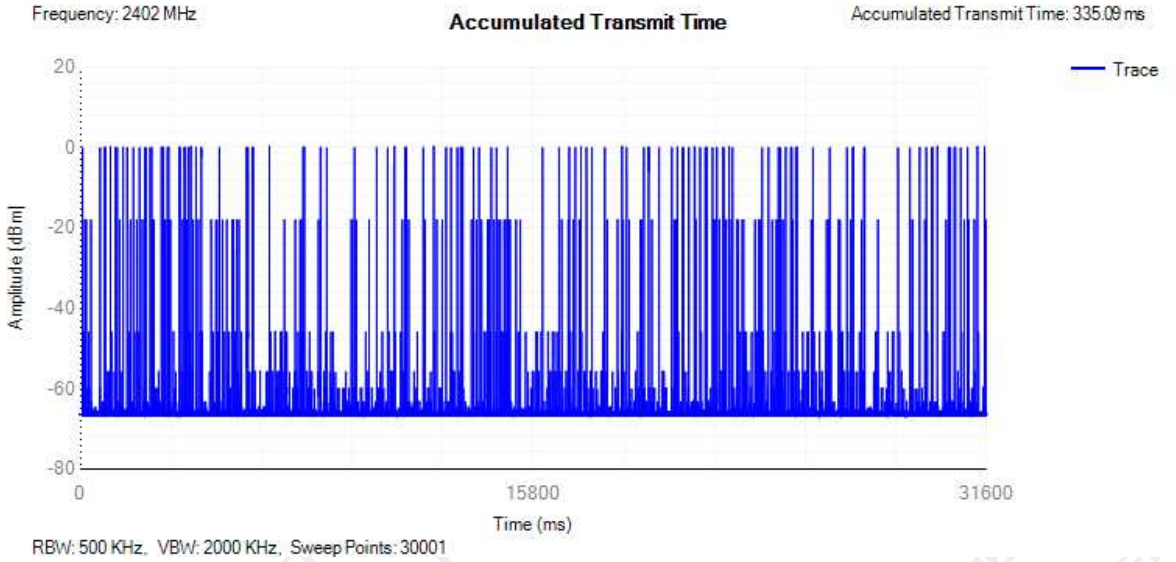
Dwell NVNT 2-DH3 2402MHz



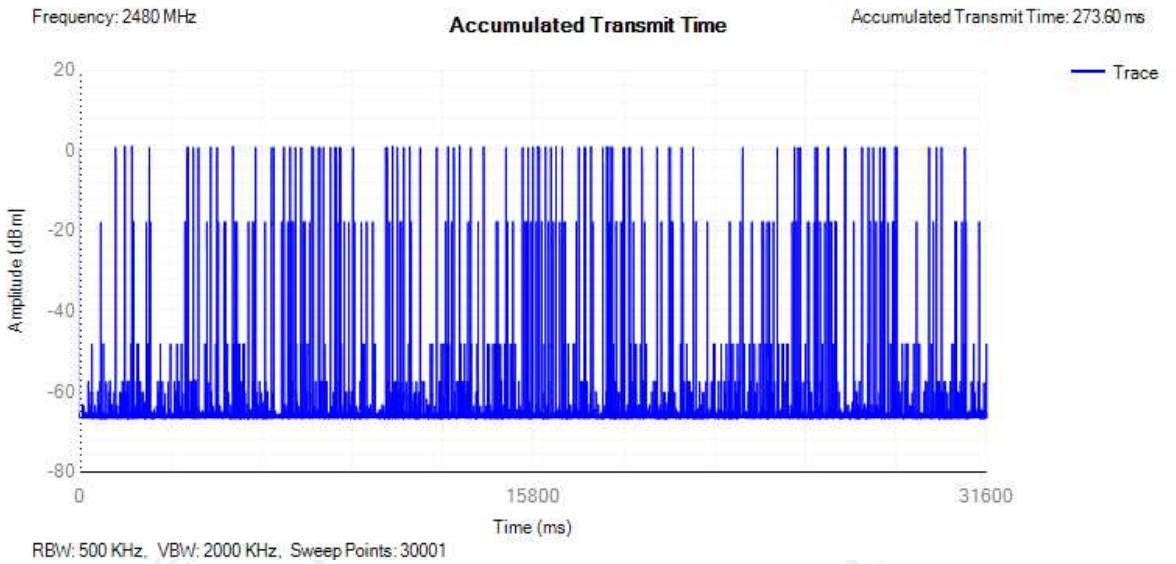
Dwell NVNT 2-DH3 2480MHz



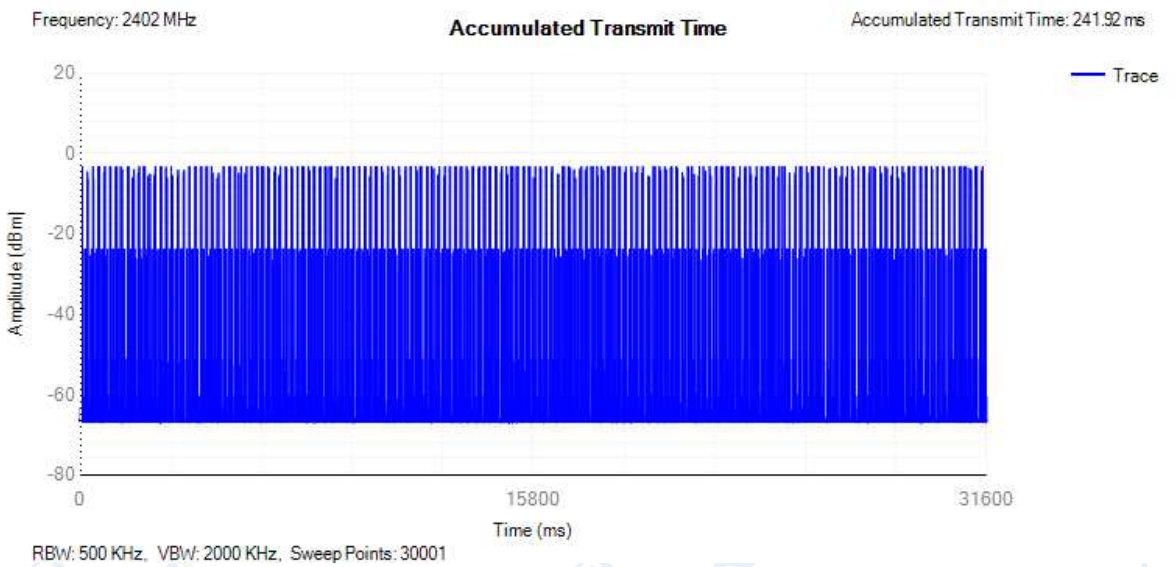
Dwell NVNT 2-DH5 2402MHz



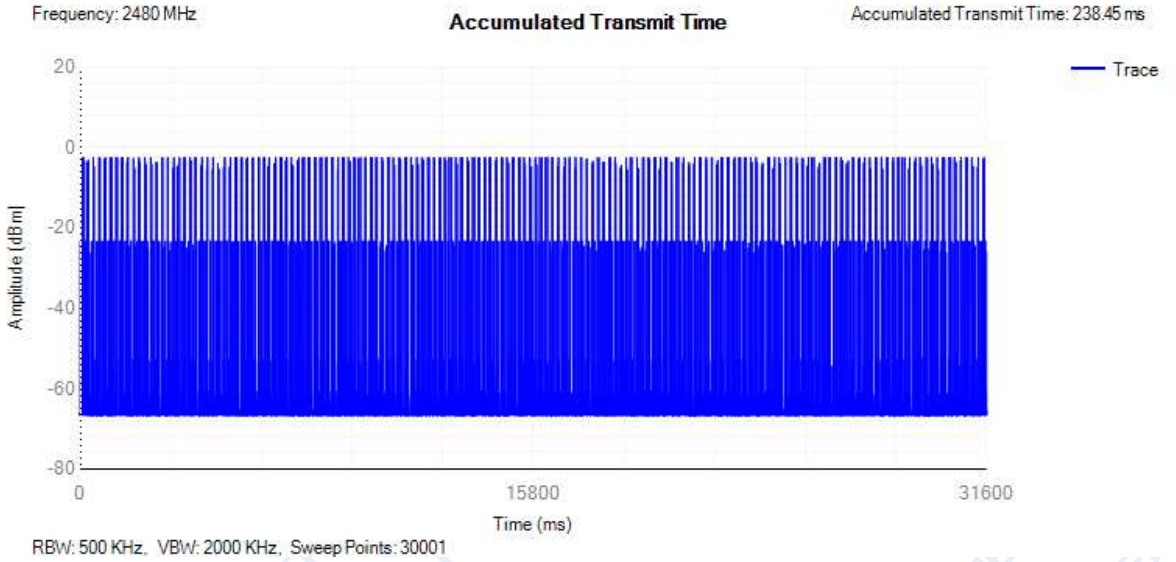
Dwell NVNT 2-DH5 2480MHz



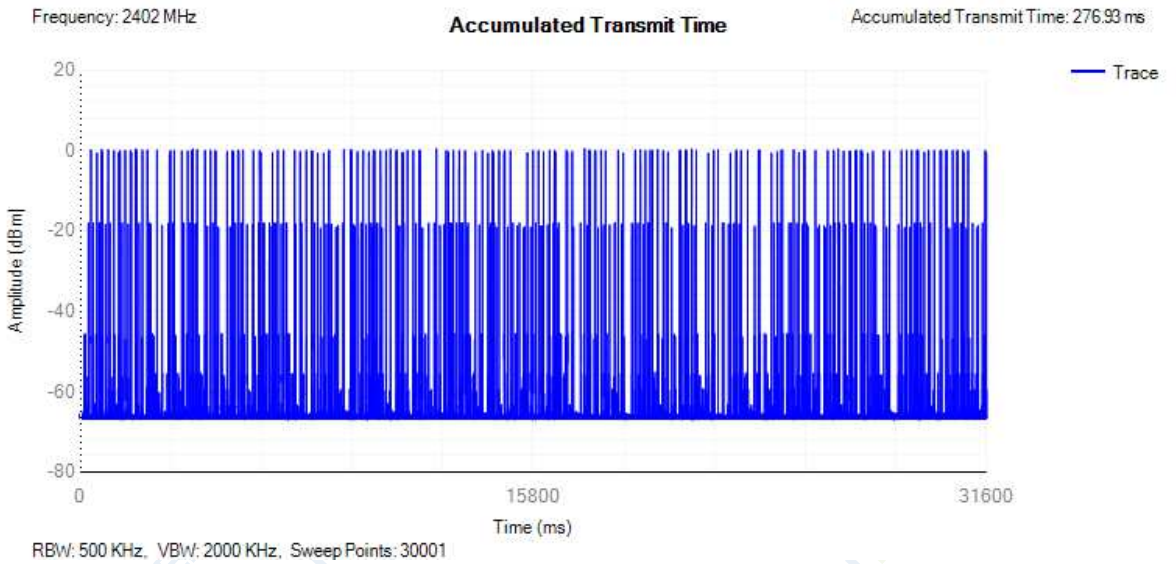
Dwell NVNT 3-DH1 2402MHz



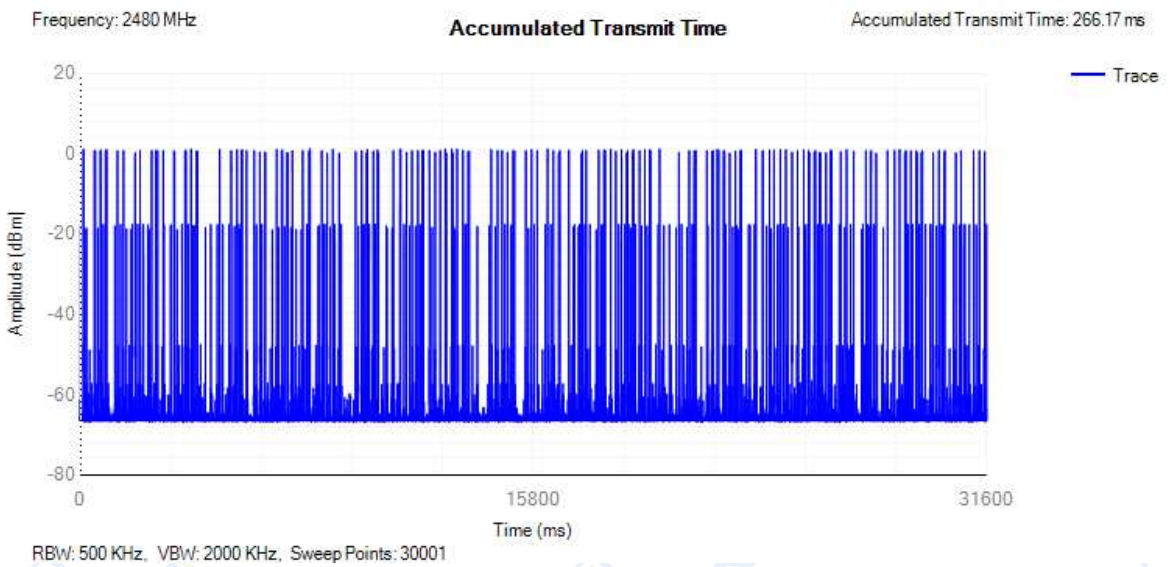
Dwell NVNT 3-DH1 2480MHz



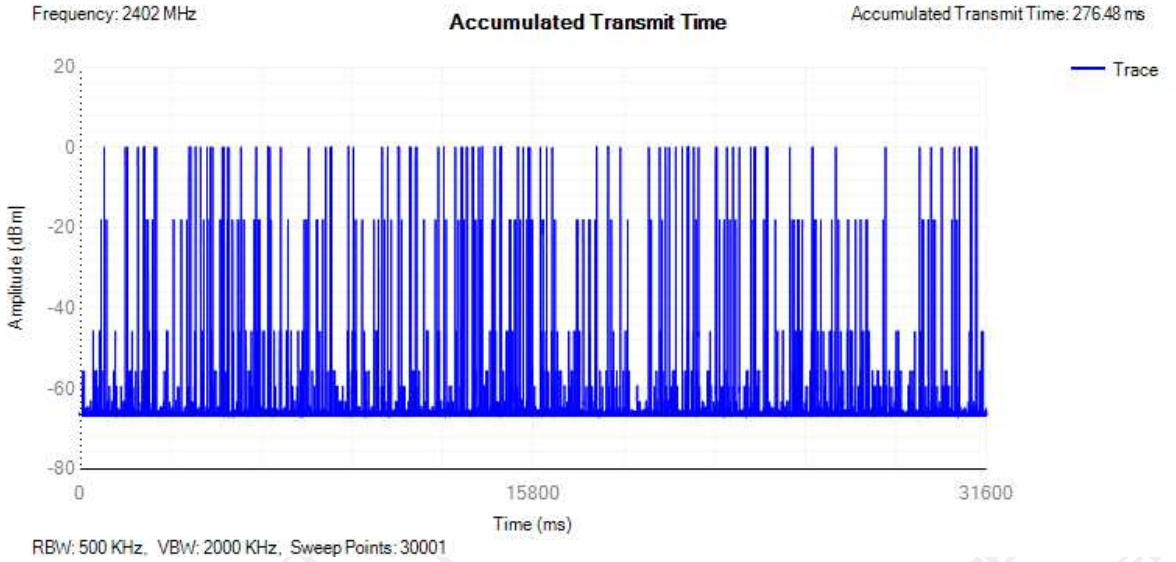
Dwell NVNT 3-DH3 2402MHz



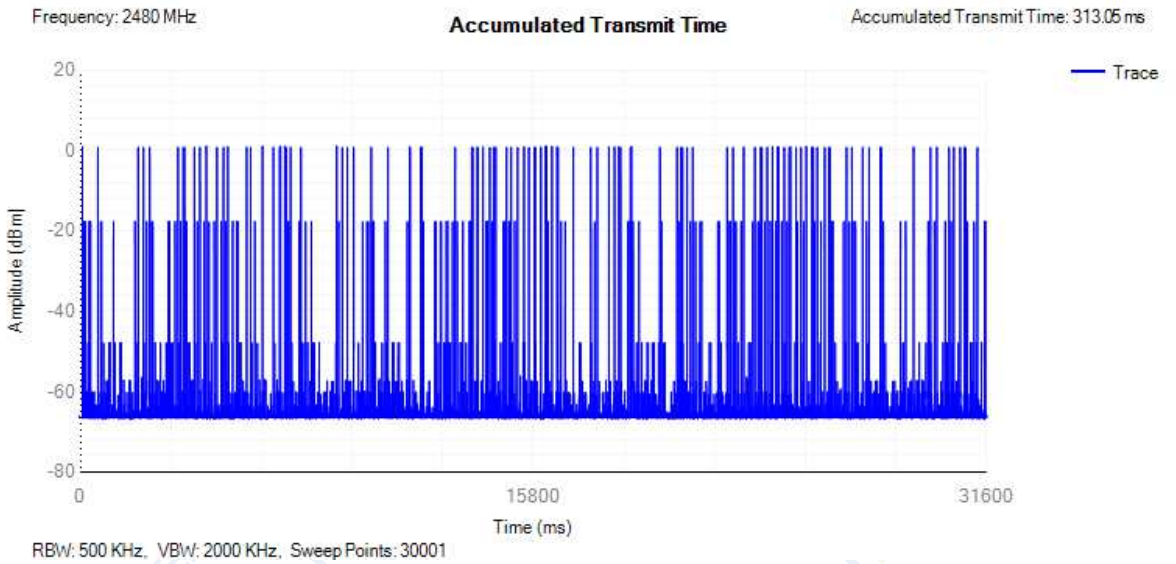
Dwell NVNT 3-DH3 2480MHz



Dwell NVNT 3-DH5 2402MHz



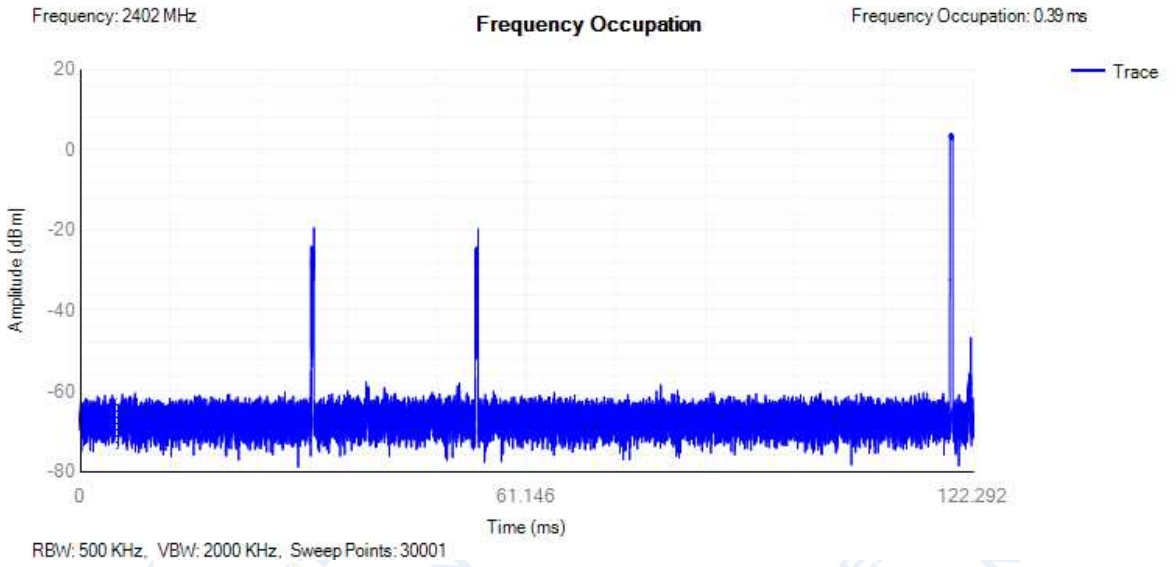
Dwell NVNT 3-DH5 2480MHz



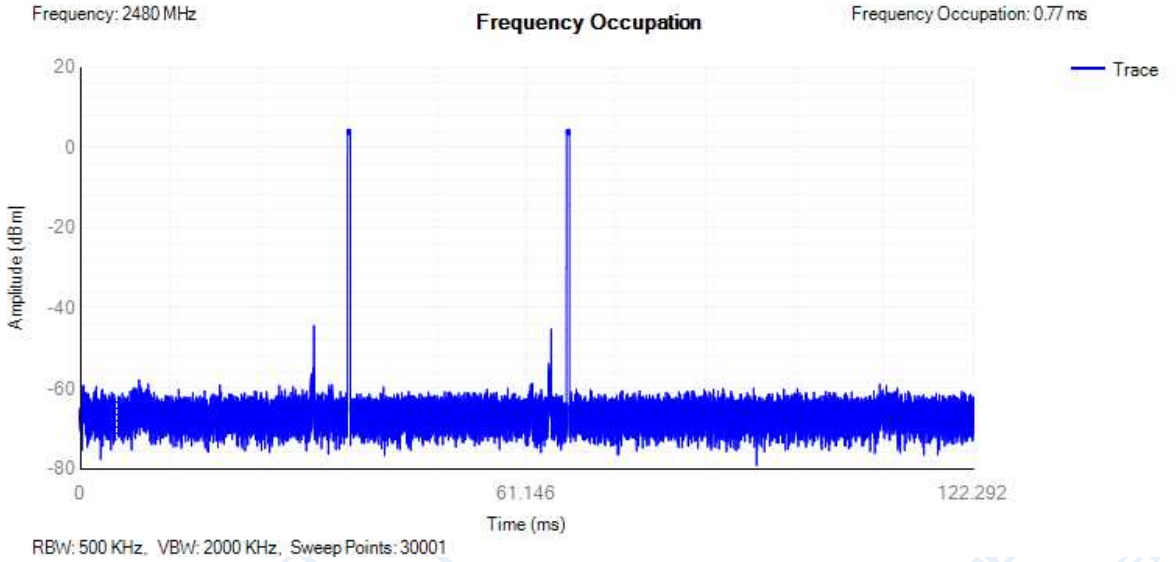
11.2 Frequency Occupation

Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH1	2402	0.387	0	122.292	1	Pass
NVNT	1-DH1	2480	0.774	0	122.292	2	Pass
NVNT	1-DH3	2402	4.932	0	519.504	3	Pass
NVNT	1-DH3	2480	8.22	0	519.504	5	Pass
NVNT	1-DH5	2402	14.44	0	912.608	5	Pass
NVNT	1-DH5	2480	14.48	0	915.136	5	Pass
NVNT	2-DH1	2402	0.738	0	116.604	2	Pass
NVNT	2-DH1	2480	0.381	0	120.396	1	Pass
NVNT	2-DH3	2402	3.264	0	515.712	2	Pass
NVNT	2-DH3	2480	6.528	0	515.712	4	Pass
NVNT	2-DH5	2402	2.864	0	905.024	1	Pass
NVNT	2-DH5	2480	8.64	0	910.08	3	Pass
NVNT	3-DH1	2402	0.378	0	119.448	1	Pass
NVNT	3-DH1	2480	0.372	0	117.552	1	Pass
NVNT	3-DH3	2402	3.258	0	514.764	2	Pass
NVNT	3-DH3	2480	4.869	0	512.868	3	Pass
NVNT	3-DH5	2402	5.744	0	907.552	2	Pass
NVNT	3-DH5	2480	2.872	0	907.552	1	Pass

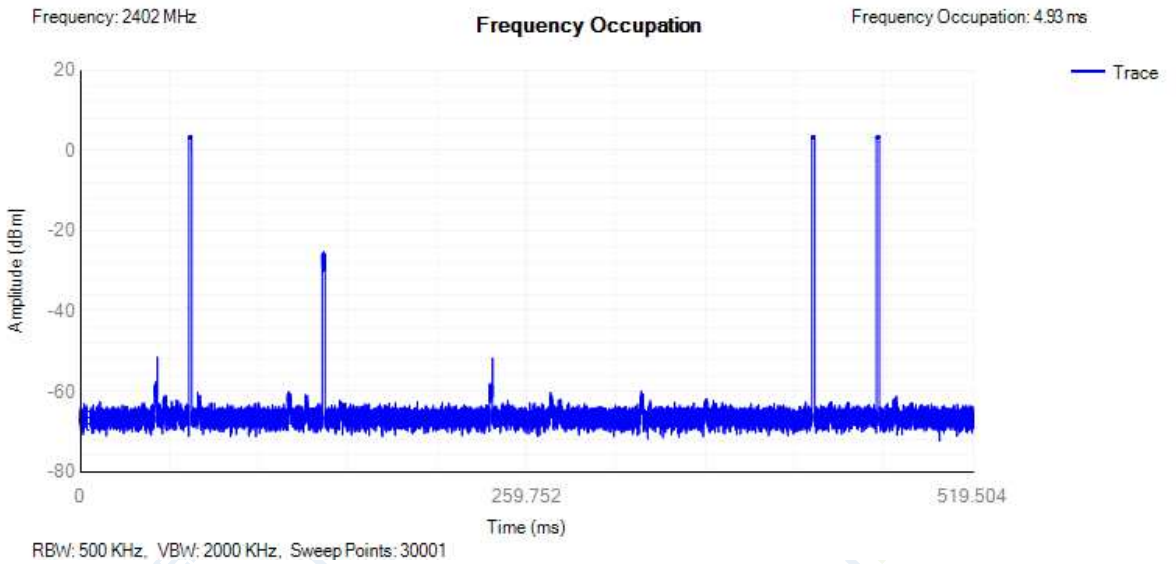
Freq. Occup. NVNT 1-DH1 2402MHz



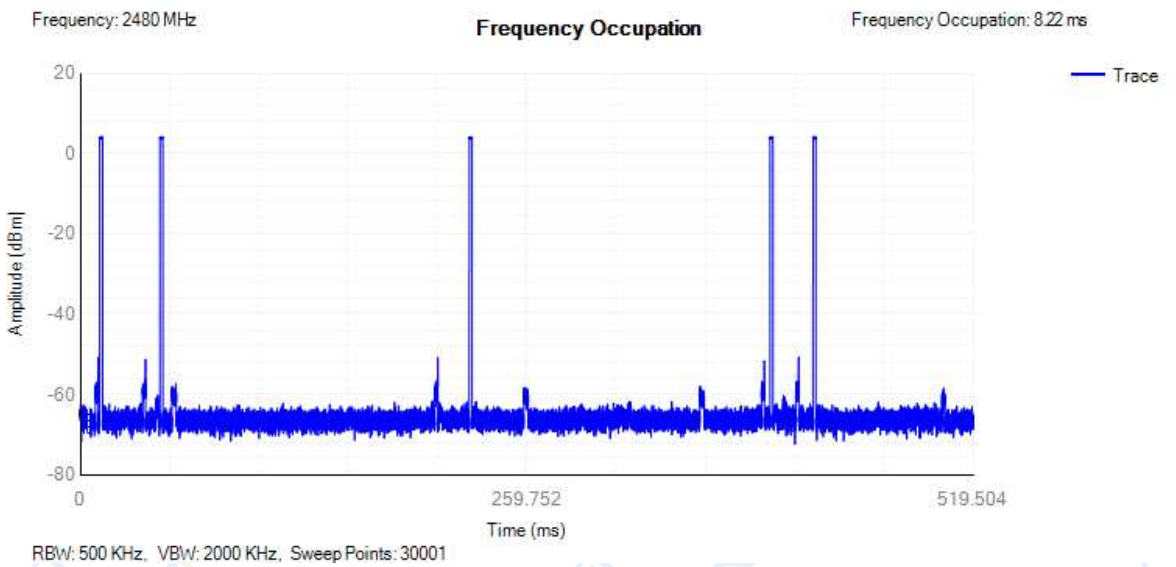
Freq. Occup. NVNT 1-DH1 2480MHz



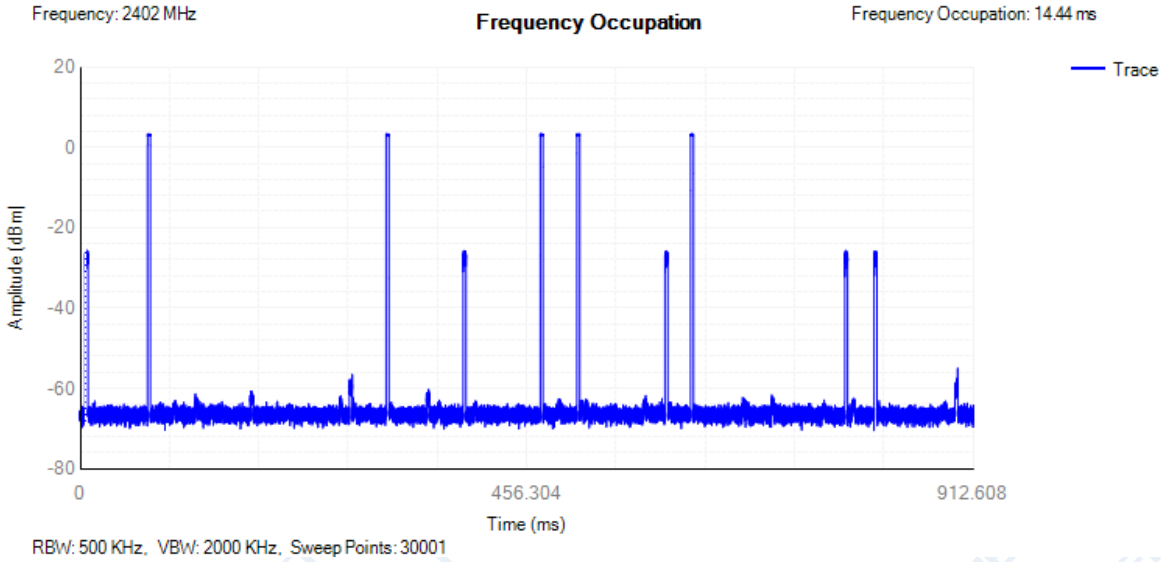
Freq. Occup. NVNT 1-DH3 2402MHz



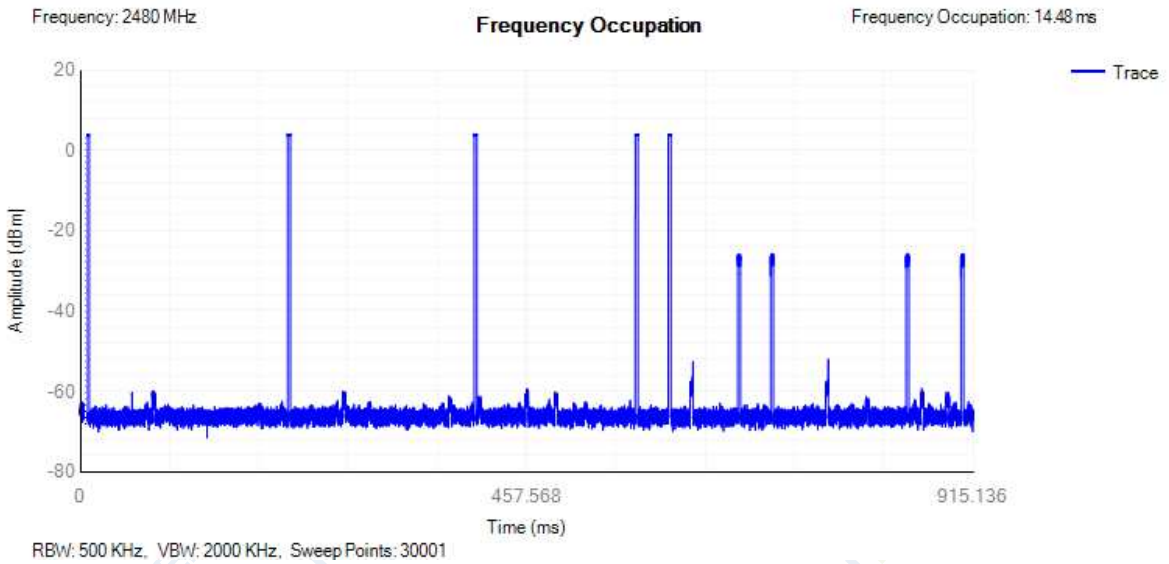
Freq. Occup. NVNT 1-DH3 2480MHz



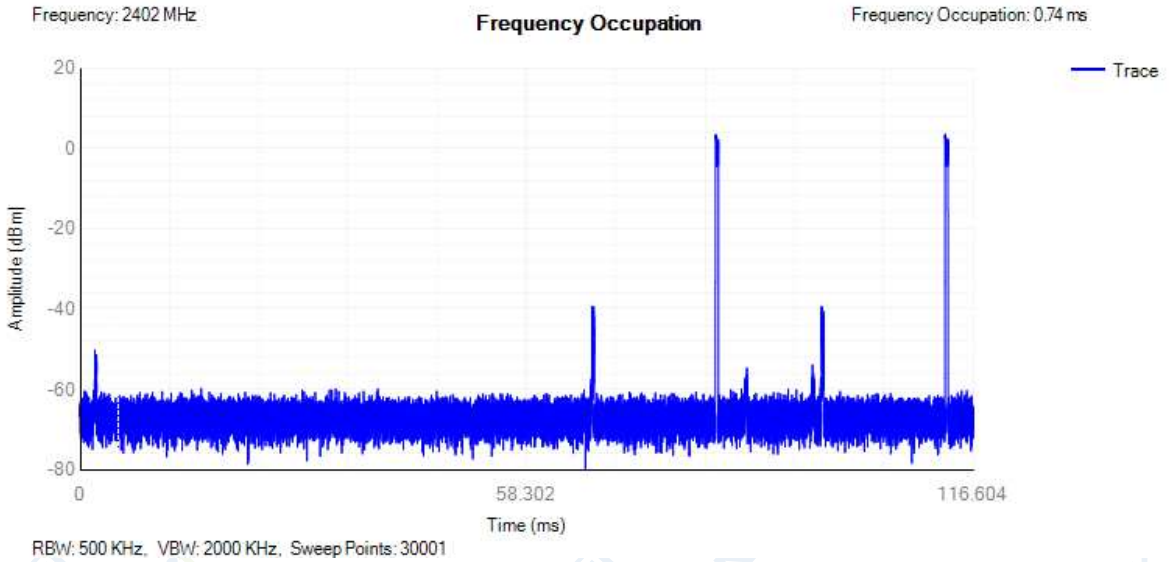
Freq. Occup. NVNT 1-DH5 2402MHz



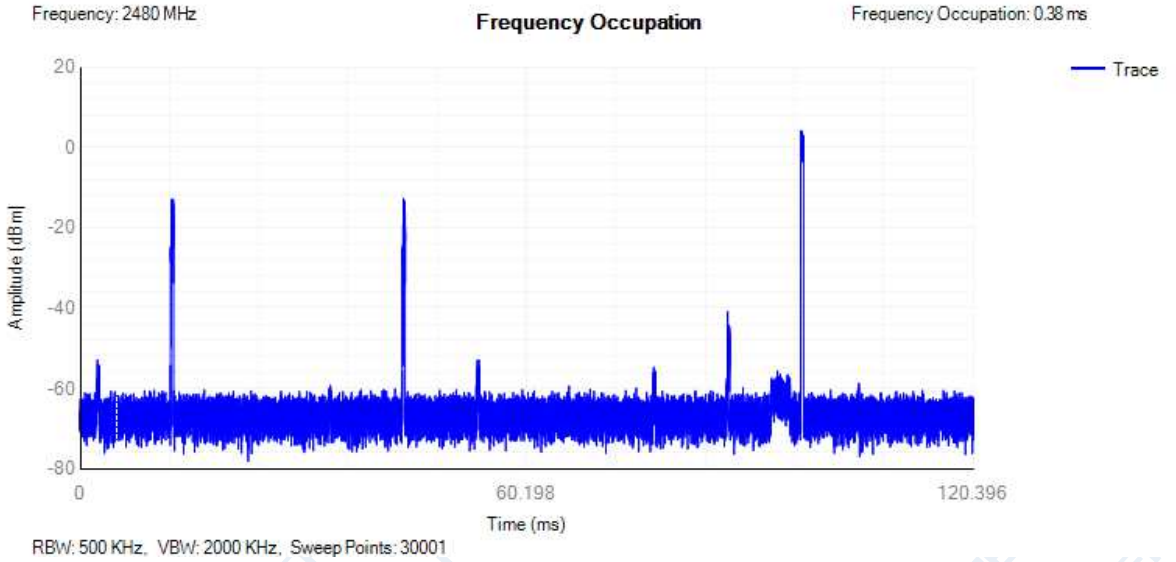
Freq. Occup. NVNT 1-DH5 2480MHz



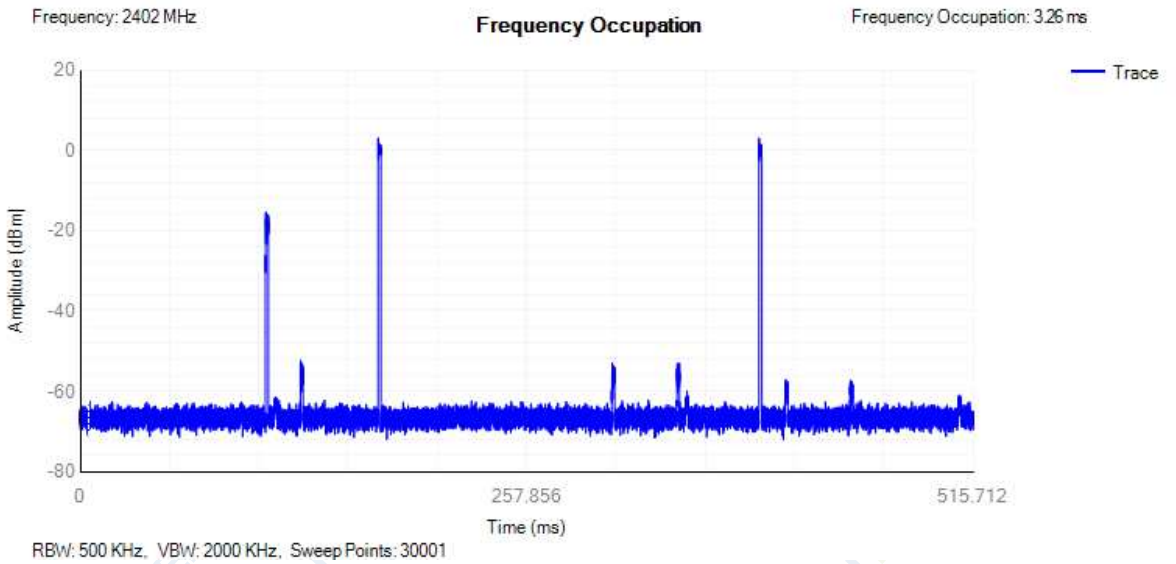
Freq. Occup. NVNT 2-DH1 2402MHz



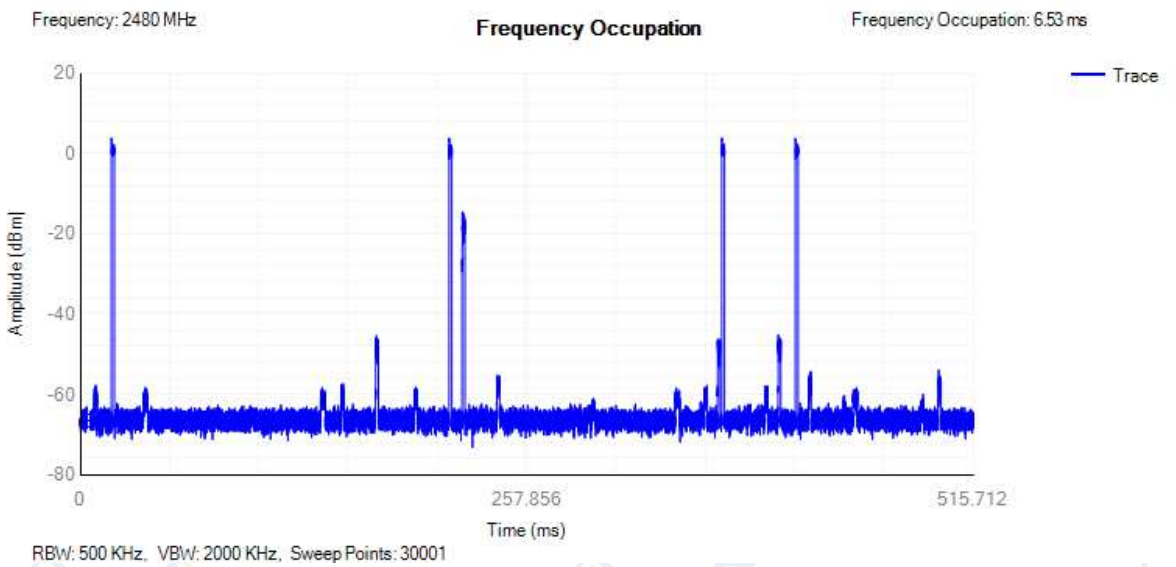
Freq. Occup. NVNT 2-DH1 2480MHz



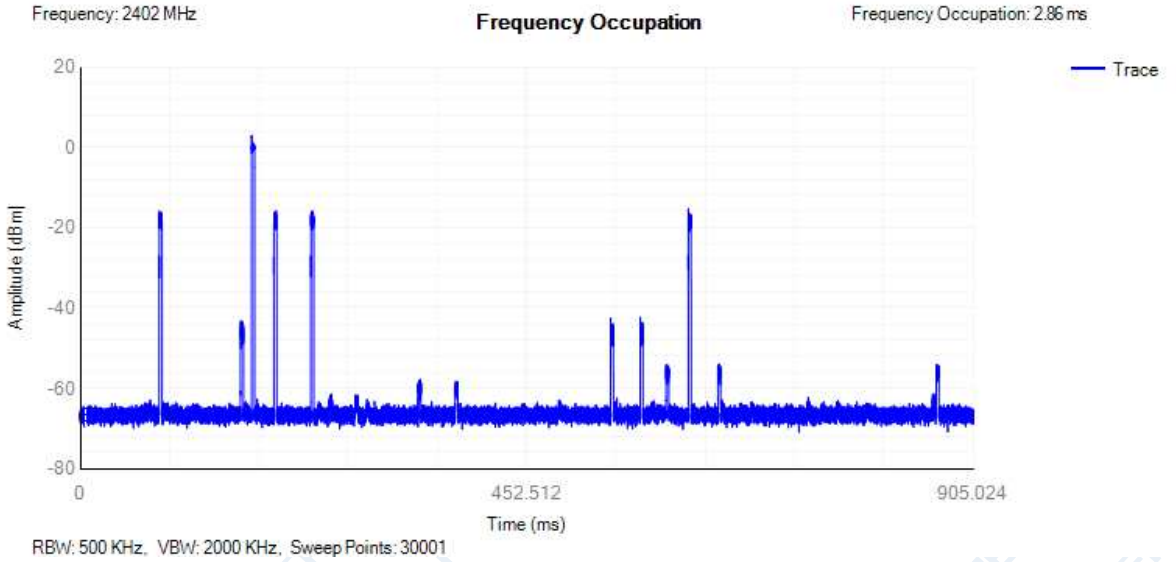
Freq. Occup. NVNT 2-DH3 2402MHz



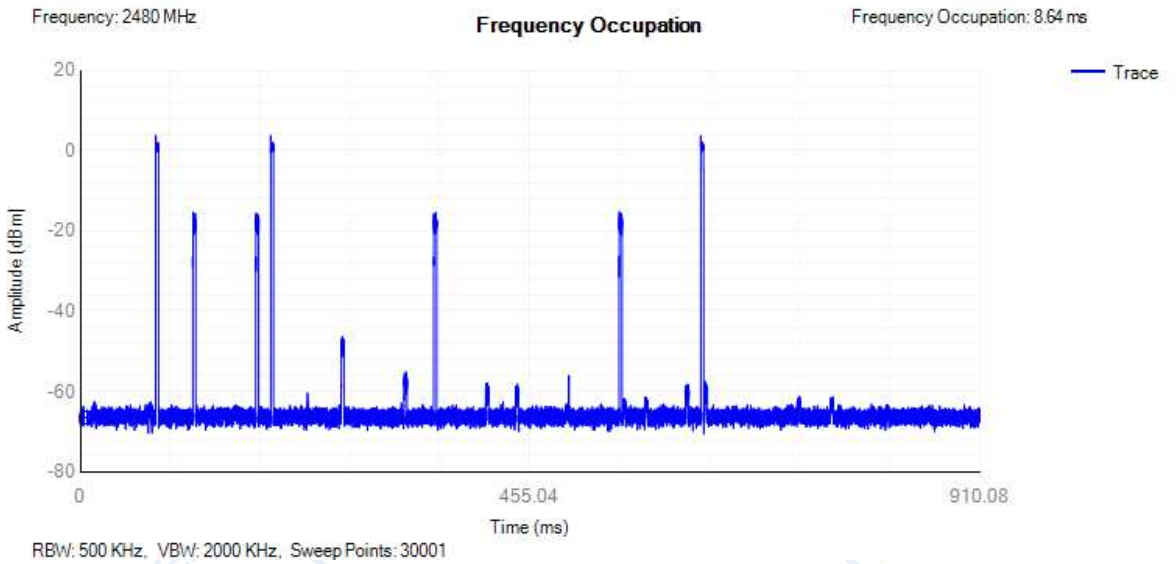
Freq. Occup. NVNT 2-DH3 2480MHz



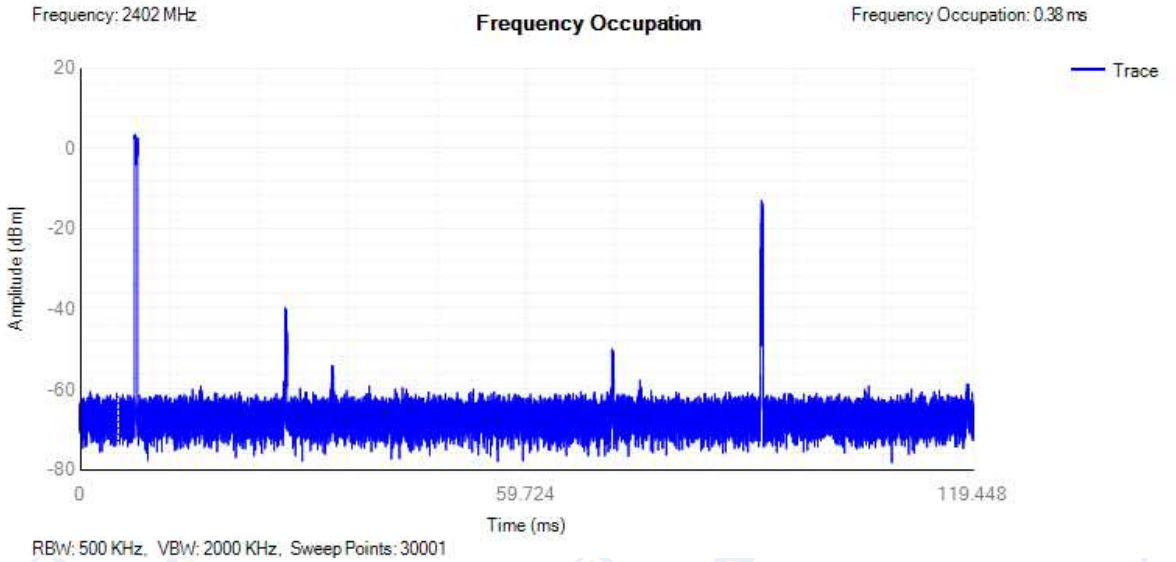
Freq. Occup. NVNT 2-DH5 2402MHz



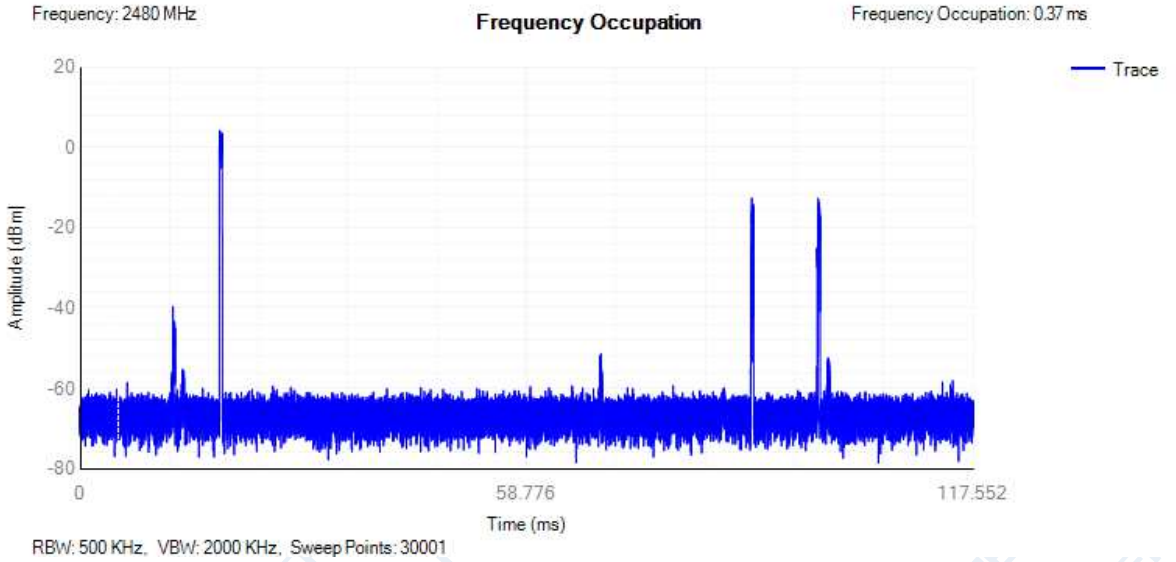
Freq. Occup. NVNT 2-DH5 2480MHz



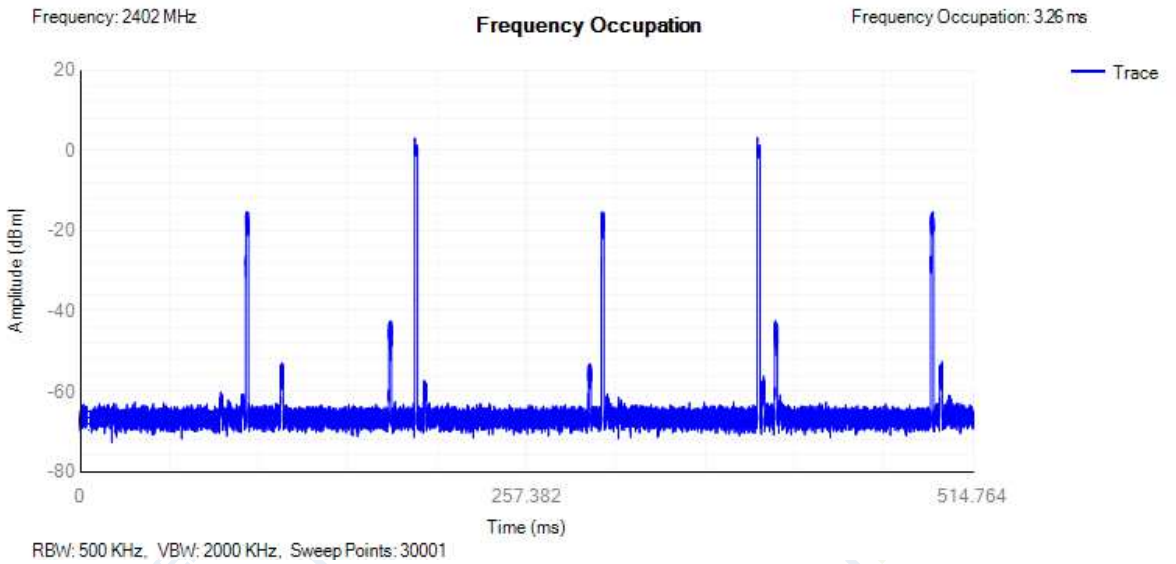
Freq. Occup. NVNT 3-DH1 2402MHz



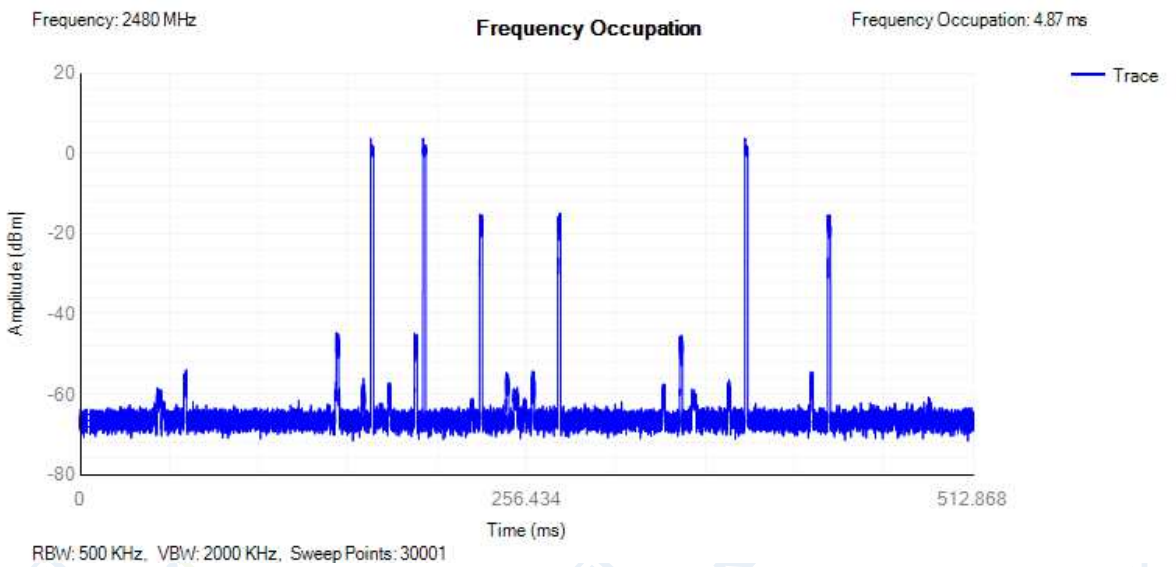
Freq. Occup. NVNT 3-DH1 2480MHz



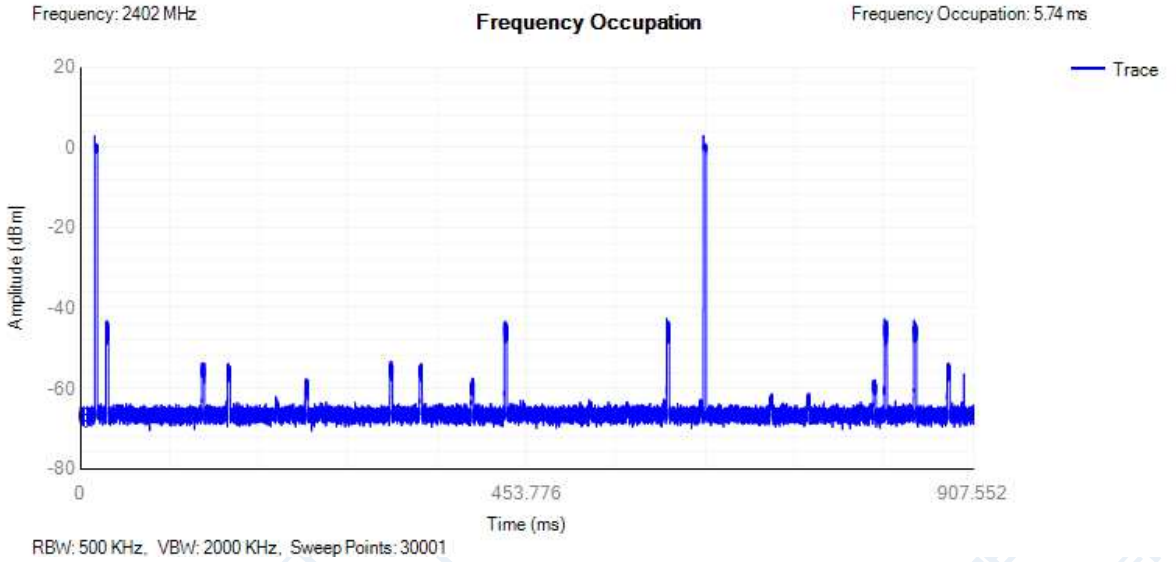
Freq. Occup. NVNT 3-DH3 2402MHz



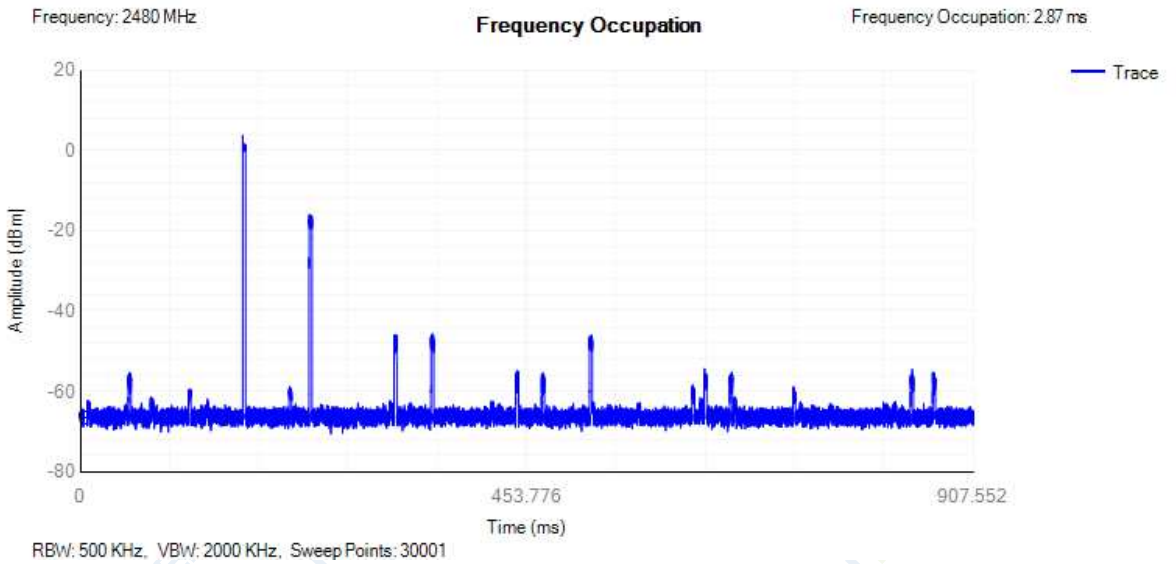
Freq. Occup. NVNT 3-DH3 2480MHz



Freq. Occup. NVNT 3-DH5 2402MHz



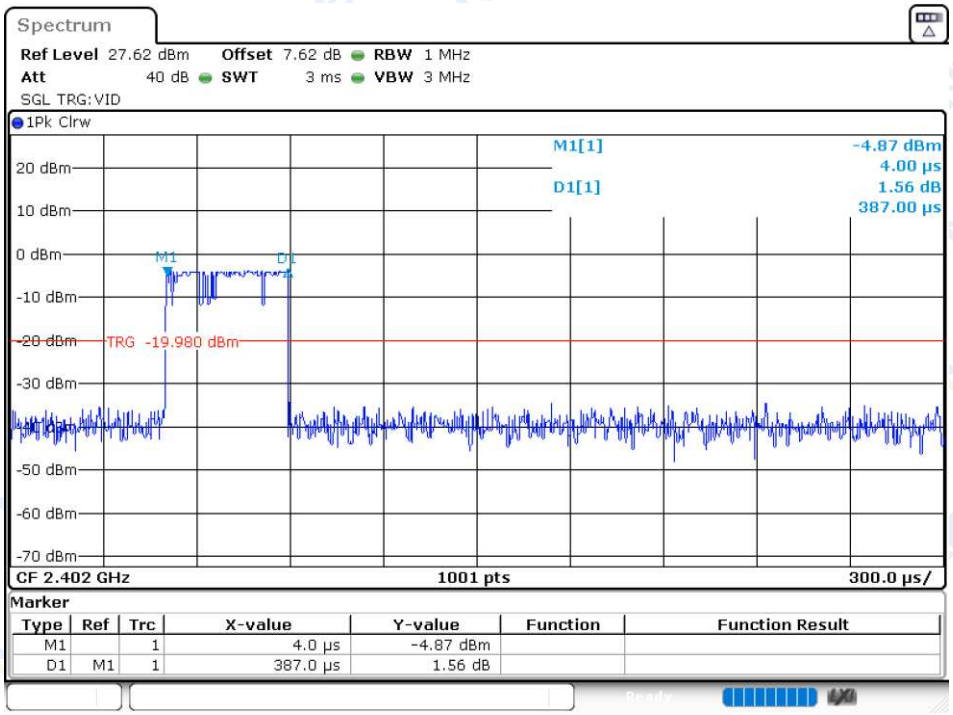
Freq. Occup. NVNT 3-DH5 2480MHz



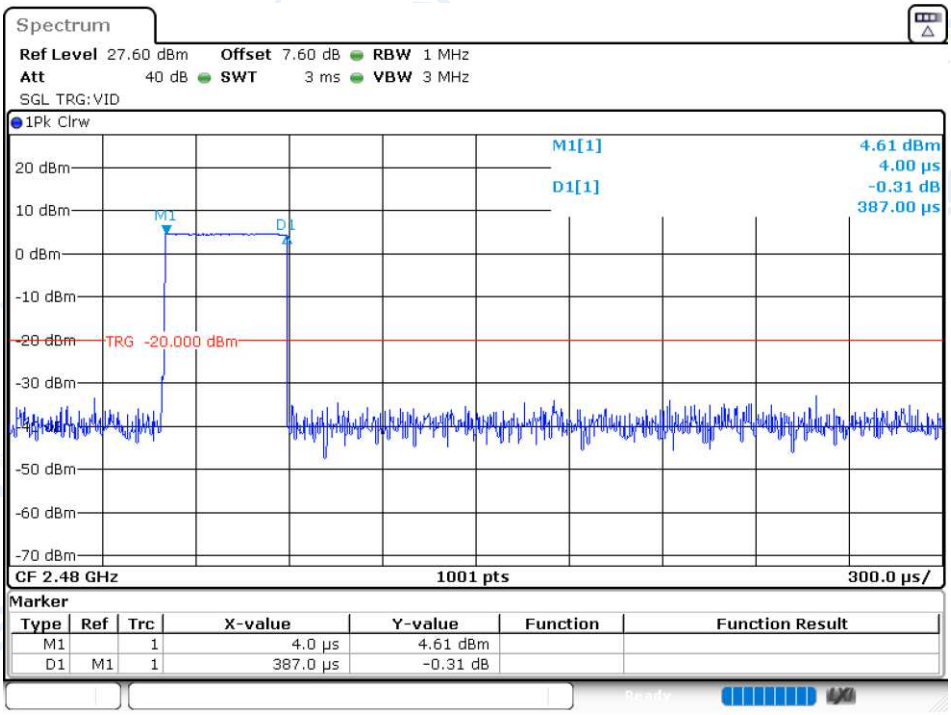
11.3 One Pulse Dwell Time

Condition	Mode	Frequency (MHz)	Pulse Time (ms)
NVNT	1-DH1	2402	0.387
NVNT	1-DH1	2480	0.387
NVNT	1-DH3	2402	1.644
NVNT	1-DH3	2480	1.644
NVNT	1-DH5	2402	2.888
NVNT	1-DH5	2480	2.896
NVNT	2-DH1	2402	0.369
NVNT	2-DH1	2480	0.381
NVNT	2-DH3	2402	1.632
NVNT	2-DH3	2480	1.632
NVNT	2-DH5	2402	2.864
NVNT	2-DH5	2480	2.88
NVNT	3-DH1	2402	0.378
NVNT	3-DH1	2480	0.372
NVNT	3-DH3	2402	1.629
NVNT	3-DH3	2480	1.623
NVNT	3-DH5	2402	2.88
NVNT	3-DH5	2480	2.872

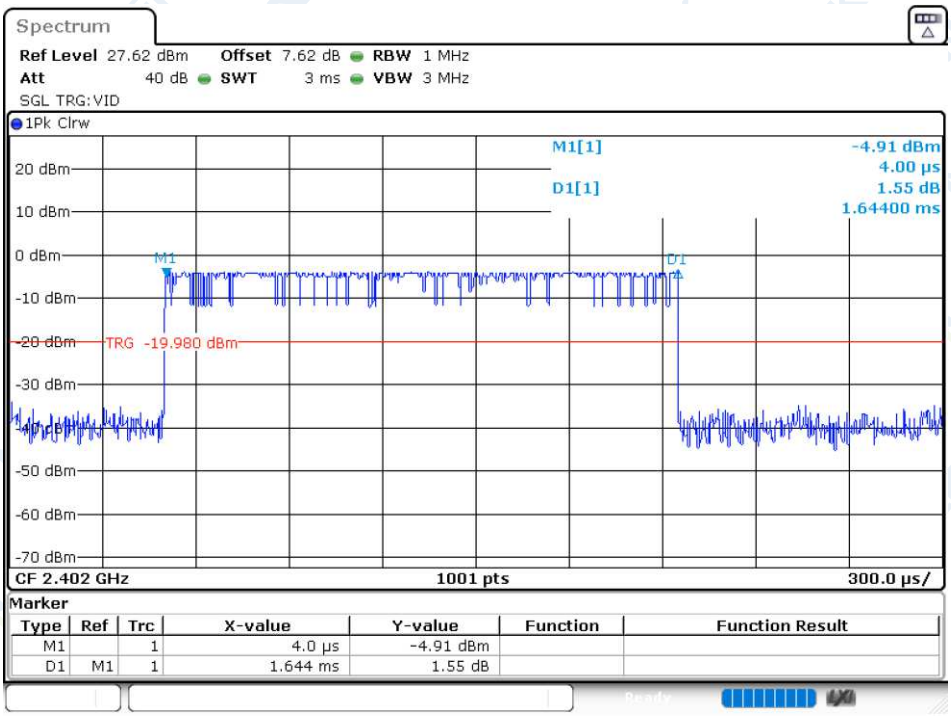
One Pulse NVNT 1-DH1 2402MHz



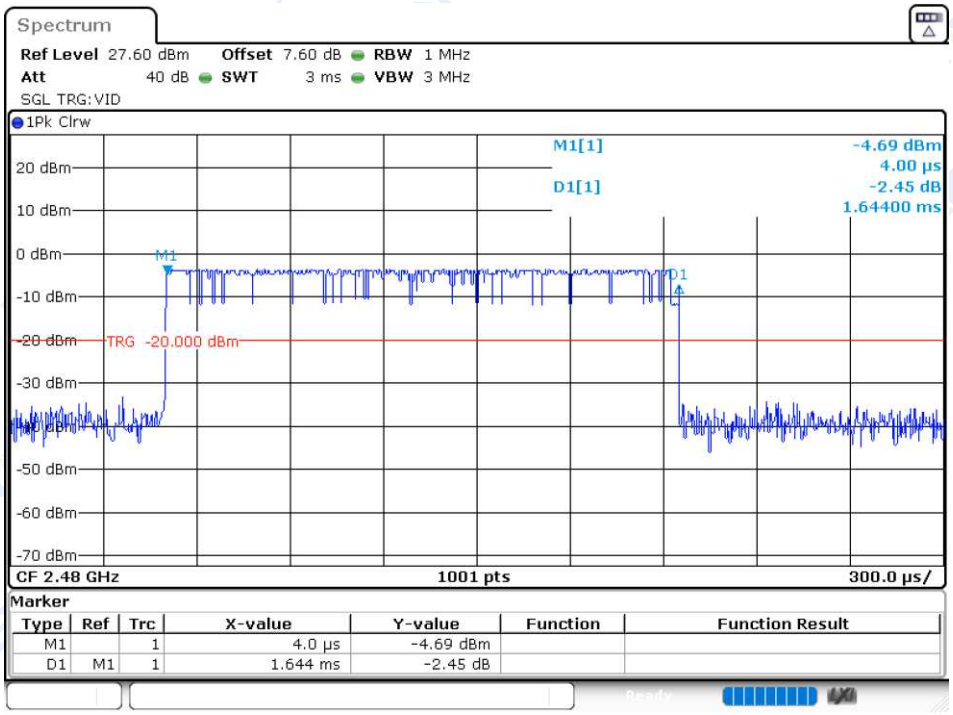
One Pulse NVNT 1-DH1 2480MHz



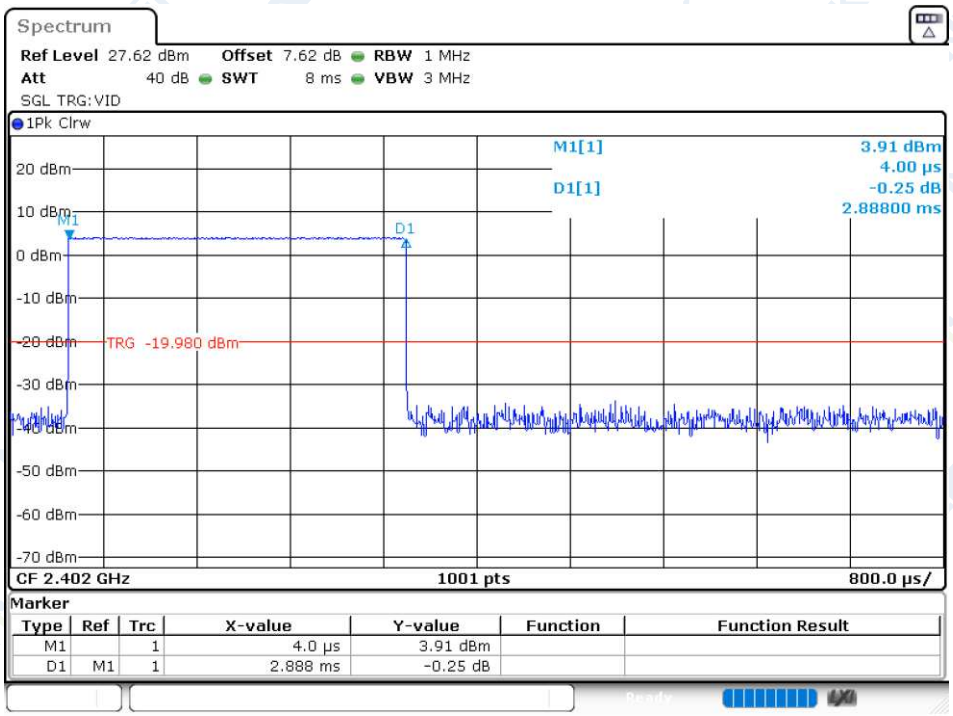
One Pulse NVNT 1-DH3 2402MHz



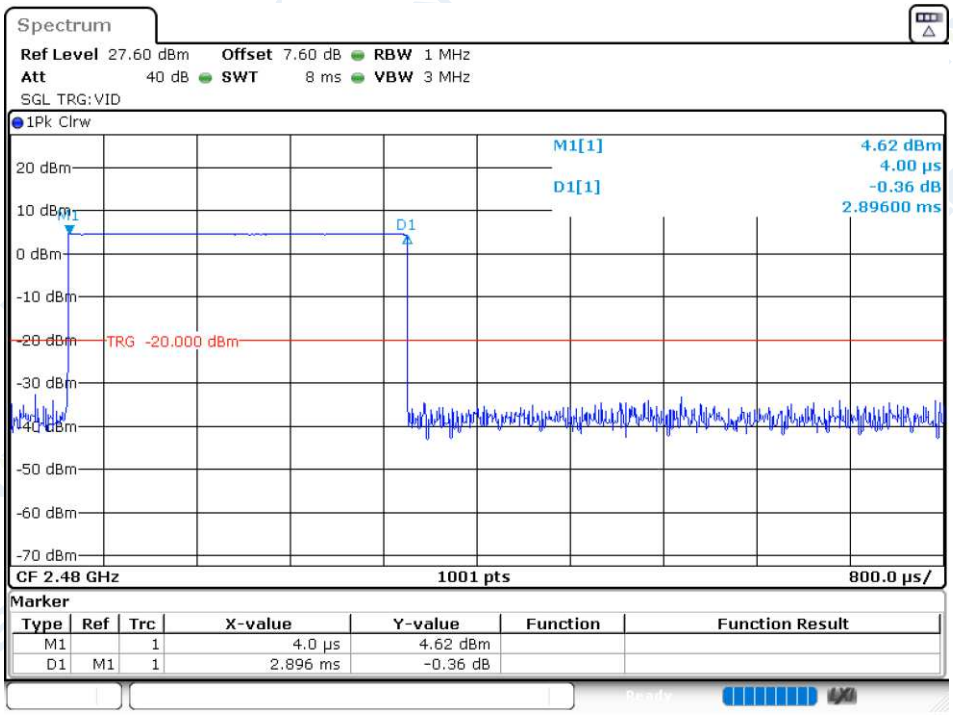
One Pulse NVNT 1-DH3 2480MHz



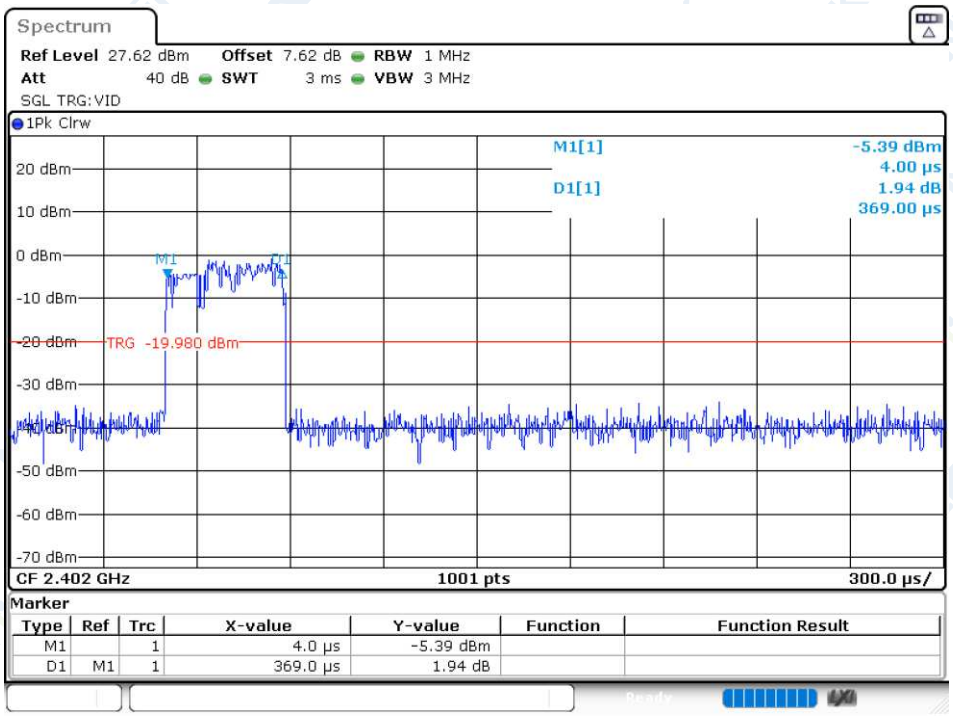
One Pulse NVNT 1-DH5 2402MHz



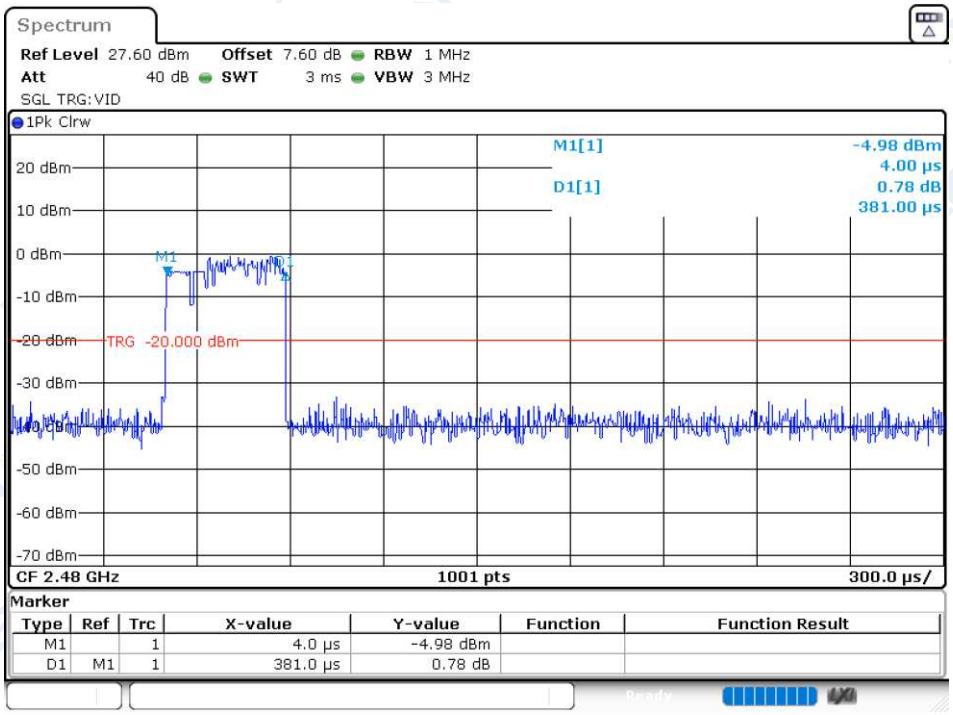
One Pulse NVNT 1-DH5 2480MHz



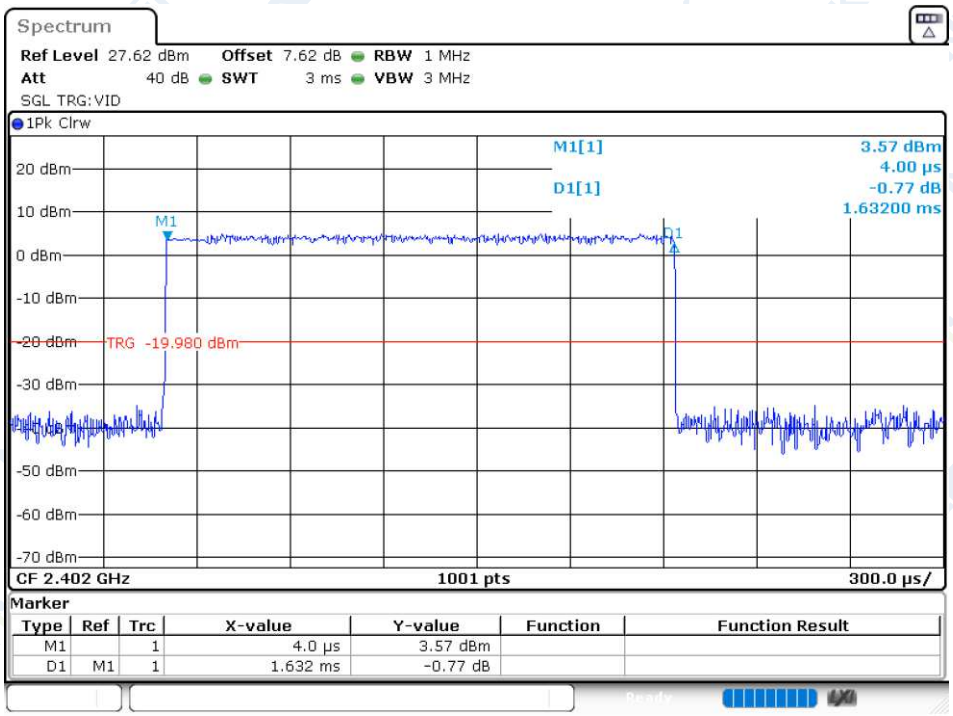
One Pulse NVNT 2-DH1 2402MHz



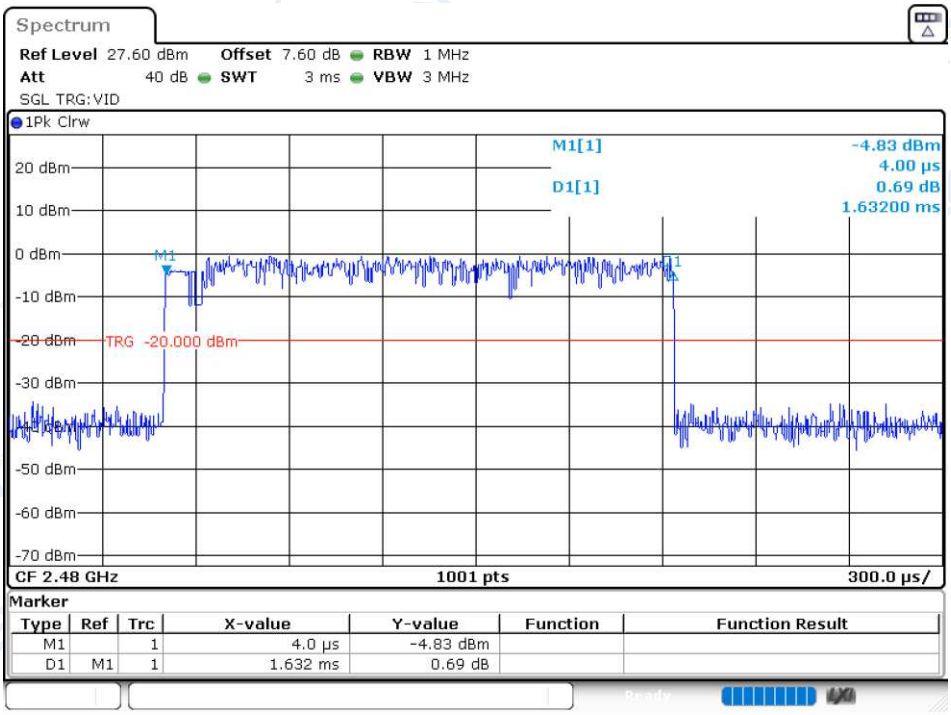
One Pulse NVNT 2-DH1 2480MHz



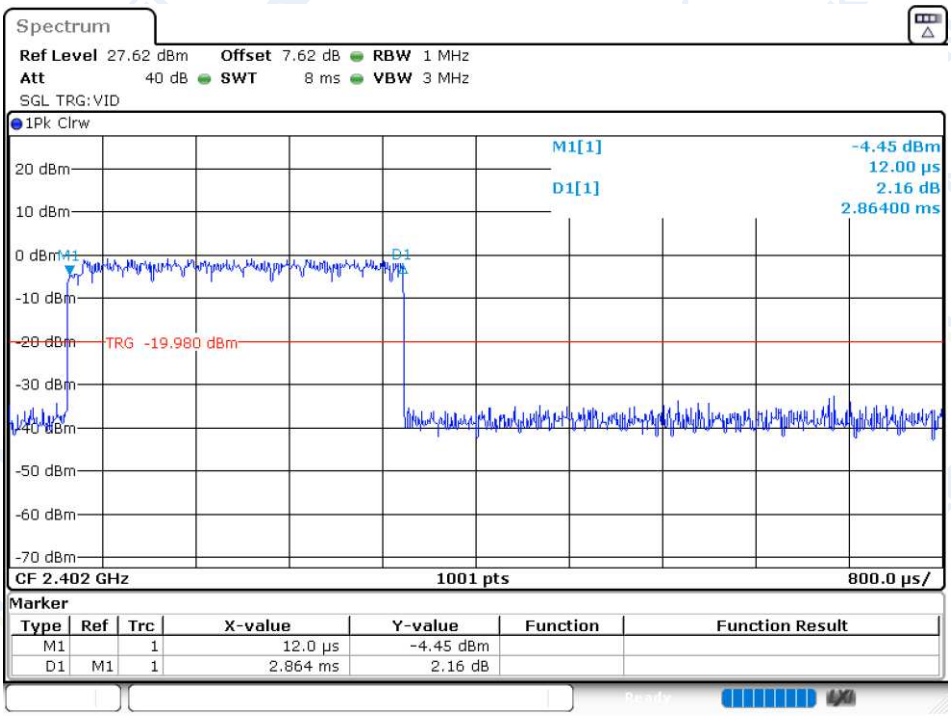
One Pulse NVNT 2-DH3 2402MHz



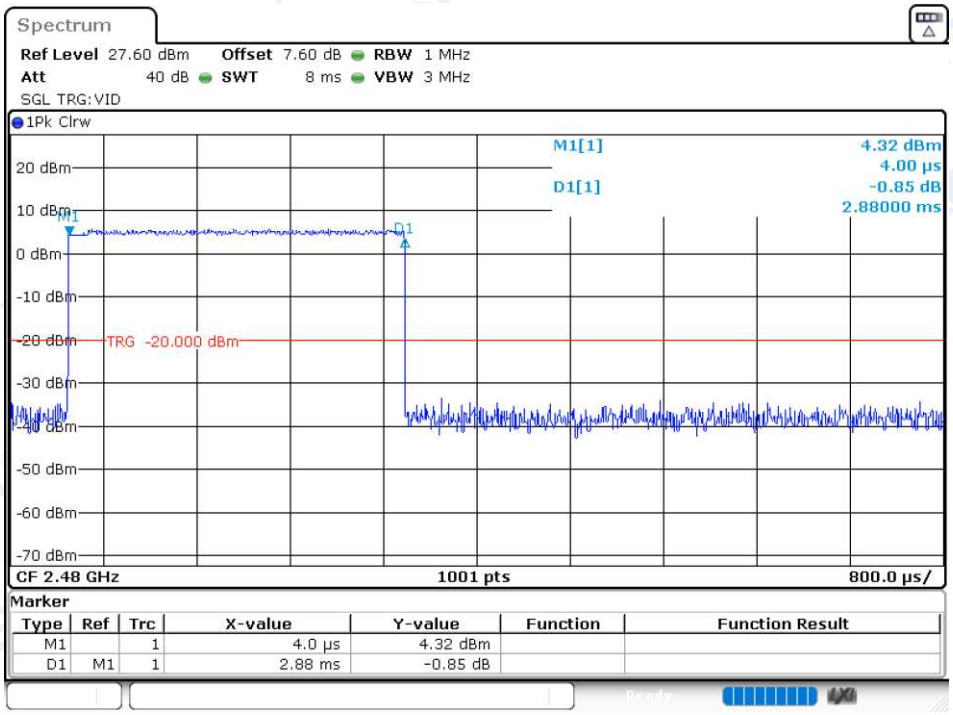
One Pulse NVNT 2-DH3 2480MHz



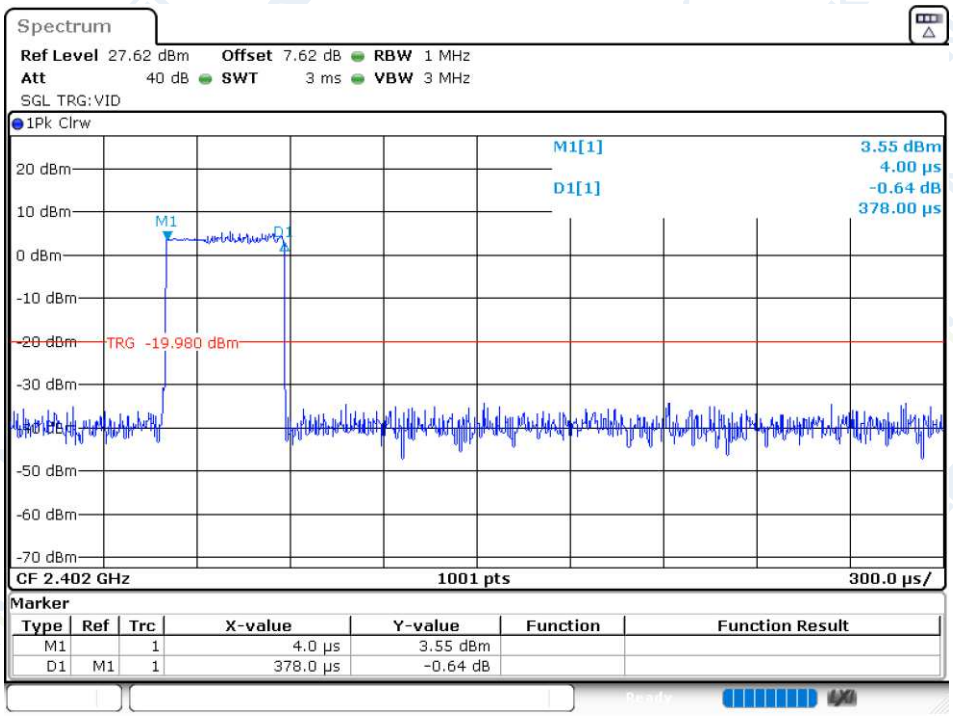
One Pulse NVNT 2-DH5 2402MHz



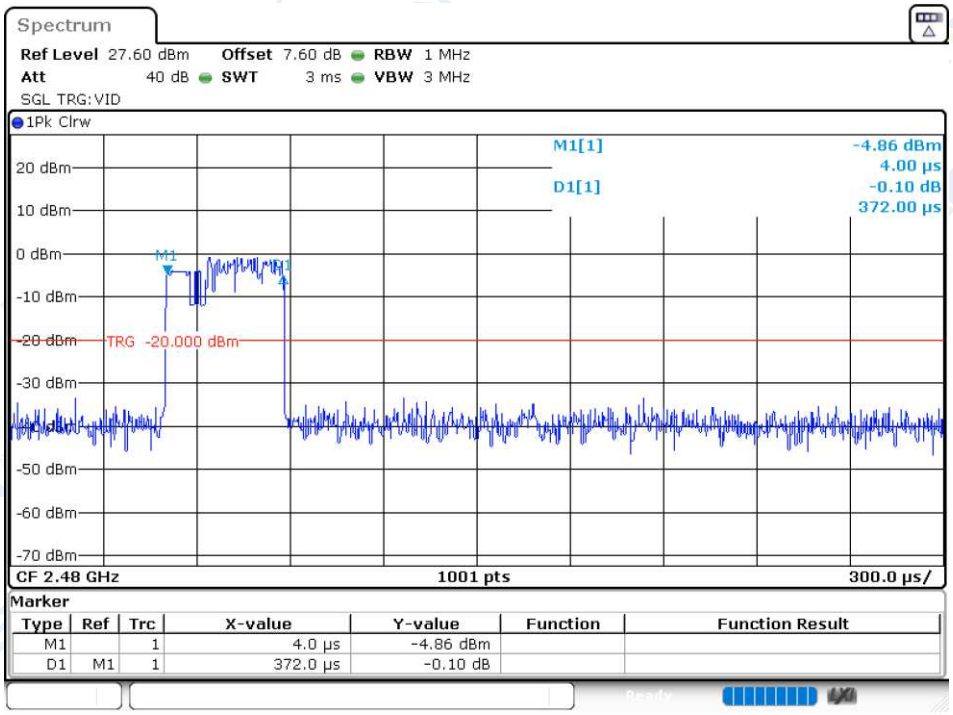
One Pulse NVNT 2-DH5 2480MHz



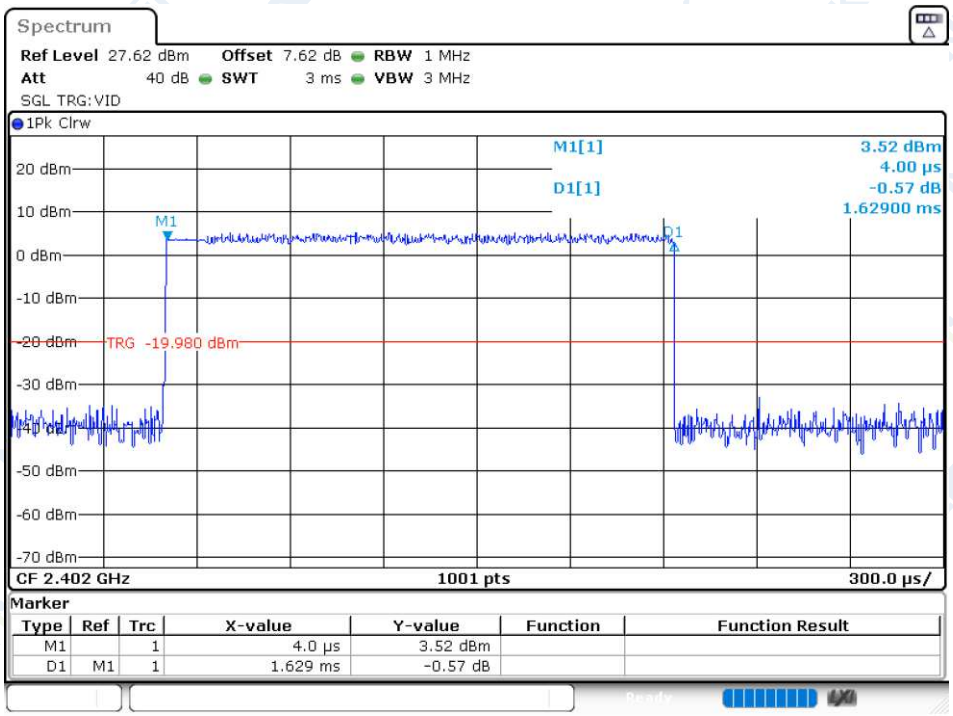
One Pulse NVNT 3-DH1 2402MHz



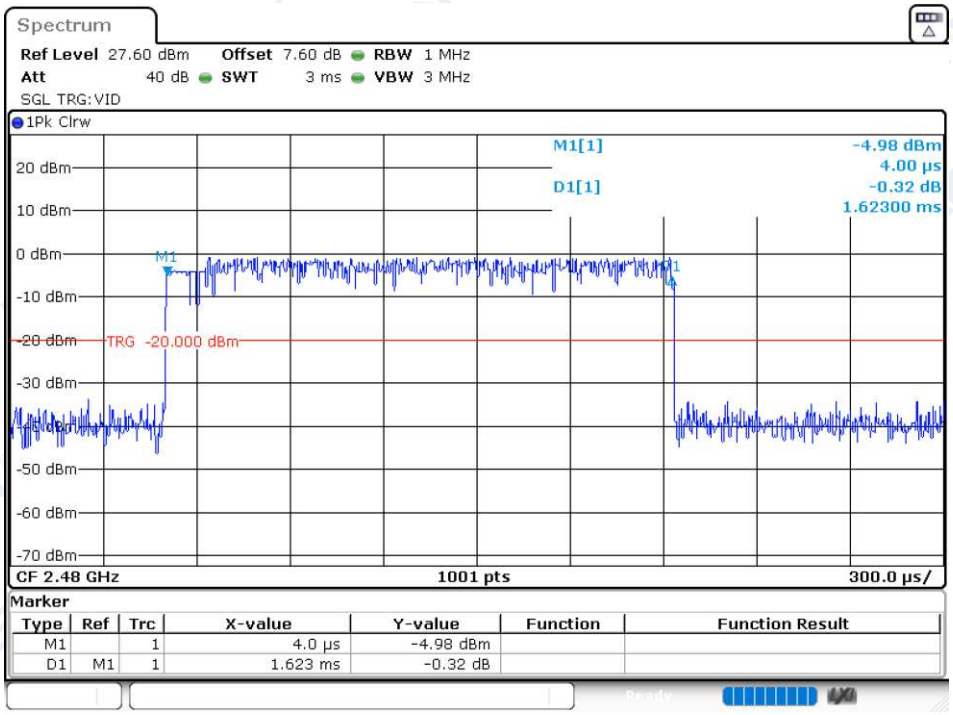
One Pulse NVNT 3-DH1 2480MHz



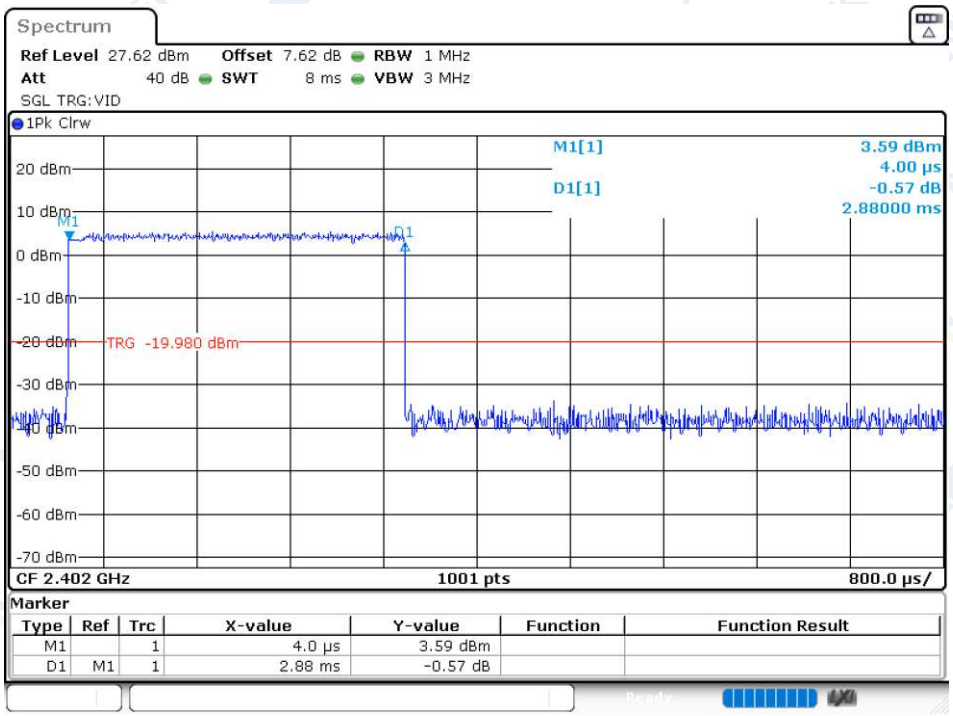
One Pulse NVNT 3-DH3 2402MHz



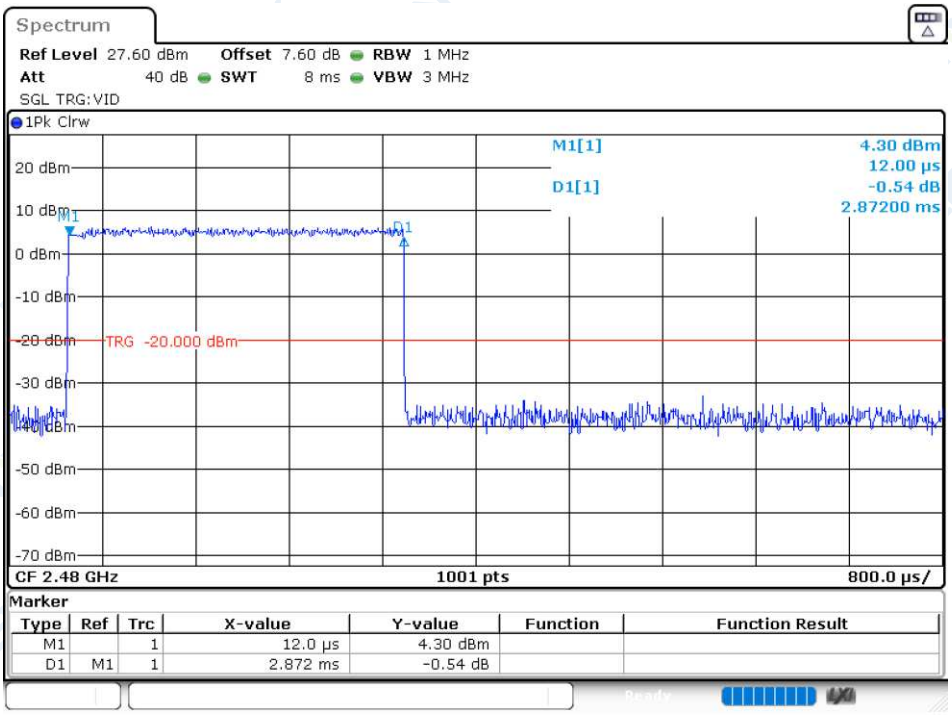
One Pulse NVNT 3-DH3 2480MHz



One Pulse NVNT 3-DH5 2402MHz



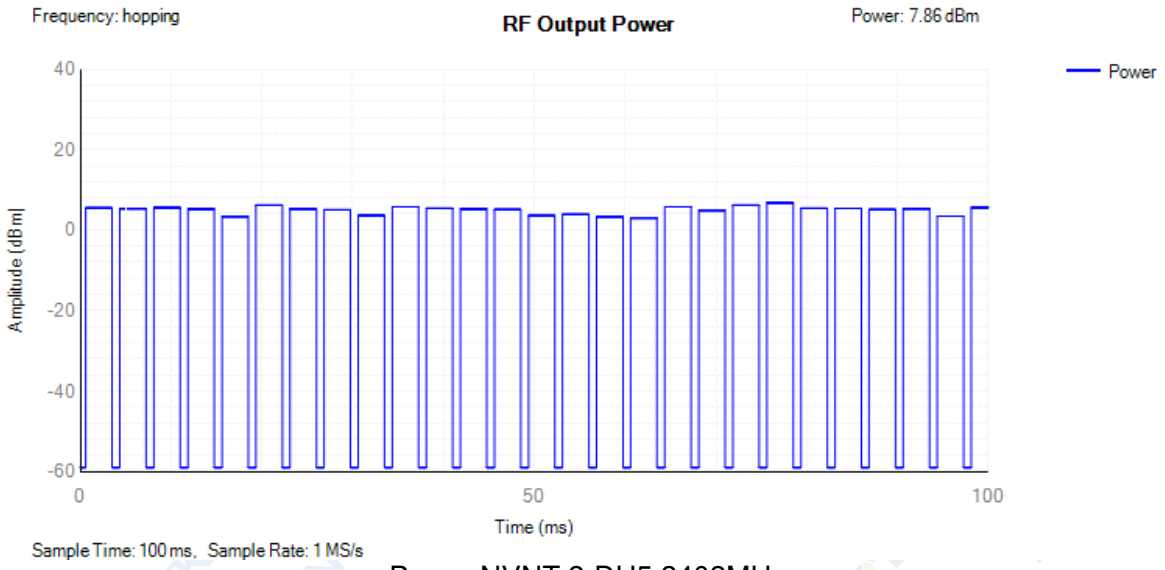
One Pulse NVNT 3-DH5 2480MHz



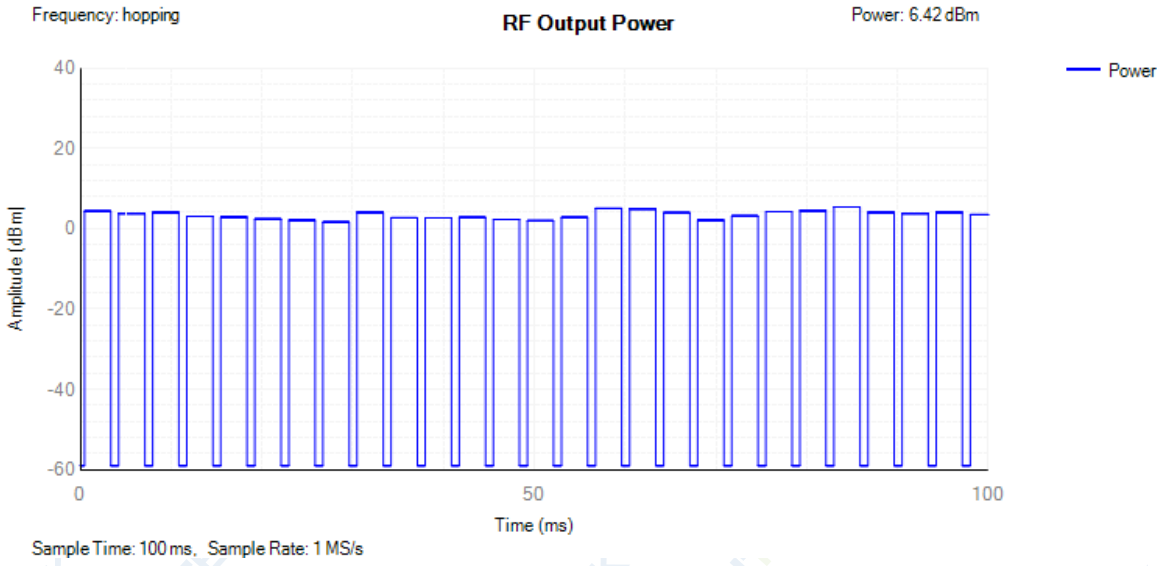
11.4 RF Output Power

Condition	Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	hopping	6.82	27	7.86	20	Pass
NVNT	2-DH5	hopping	5.38	27	6.42	20	Pass
NVNT	3-DH5	hopping	5.41	27	6.45	20	Pass
NVLT	1-DH5	hopping	6.56	27	7.6	20	Pass
NVLT	2-DH5	hopping	5.14	27	6.18	20	Pass
NVLT	3-DH5	hopping	5.4	27	6.44	20	Pass
NVHT	1-DH5	hopping	6.26	27	7.3	20	Pass
NVHT	2-DH5	hopping	5.03	27	6.07	20	Pass
NVHT	3-DH5	hopping	5.14	27	6.18	20	Pass

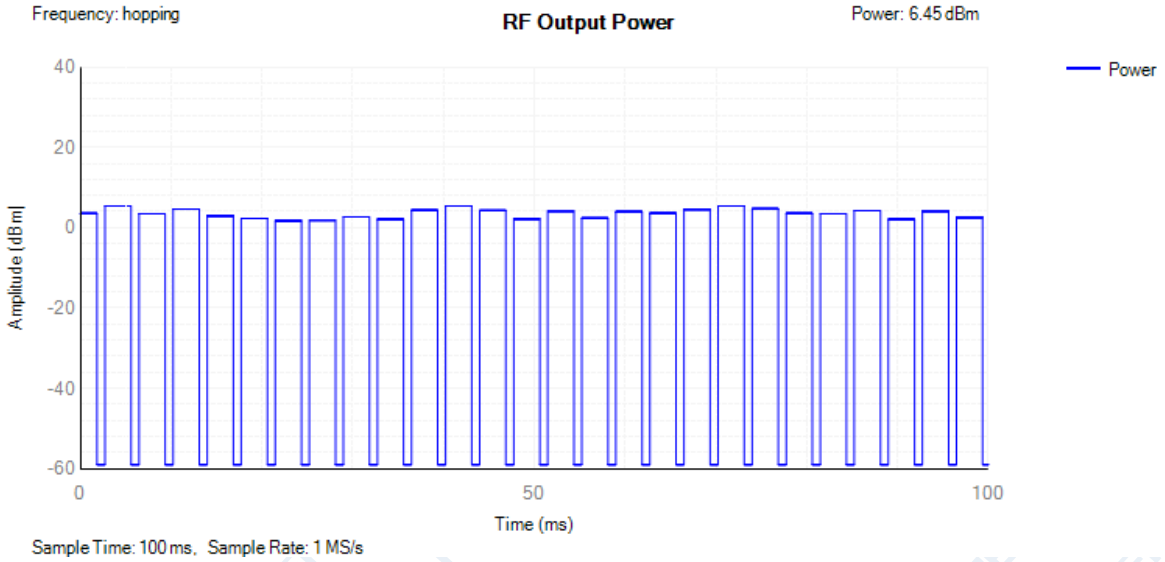
Power NVNT 1-DH5 2402MHz



Power NVNT 2-DH5 2402MHz



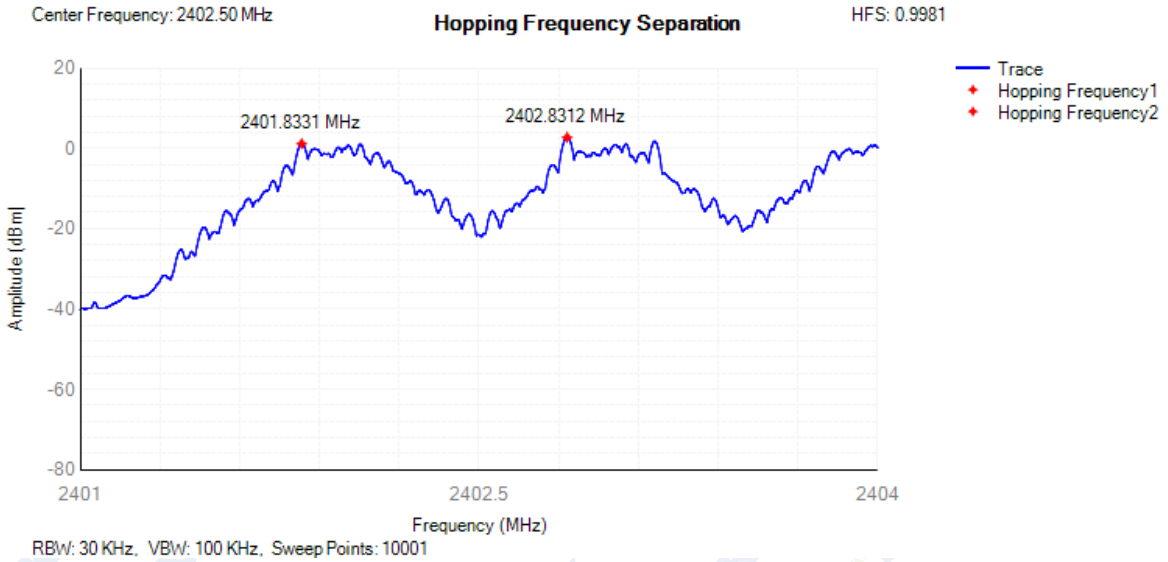
Power NVNT 3-DH5 2402MHz



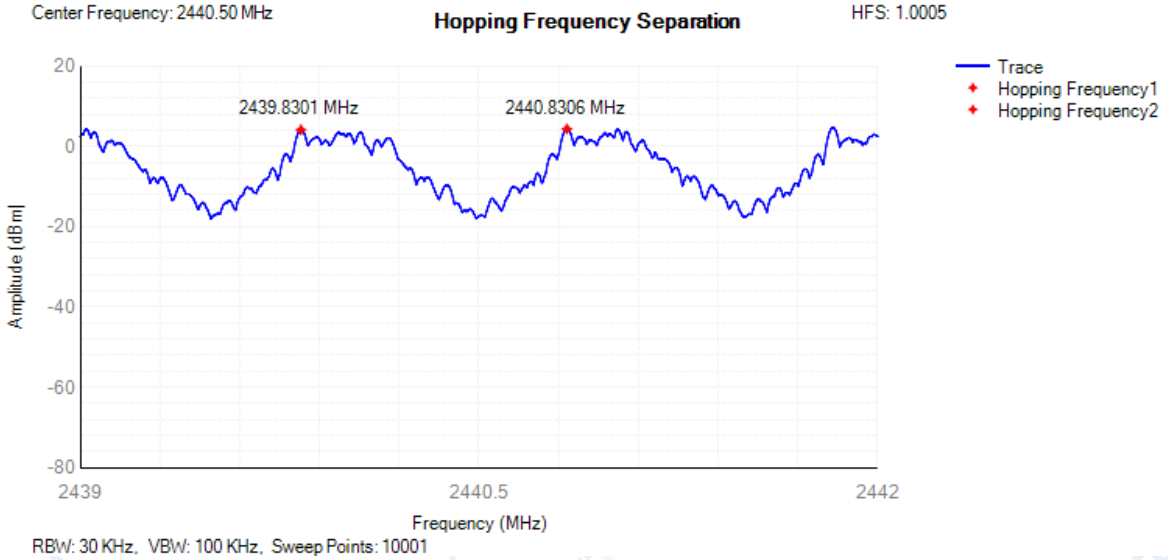
11.5 Hopping Frequency Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.8331	2402.8312	0.9981	0.1	Pass
NVNT	1-DH5	2439.8301	2440.8306	1.0005	0.1	Pass
NVNT	1-DH5	2479.053	2480.0523	0.9993	0.1	Pass
NVNT	2-DH5	2402.023	2403.0238	1.0008	0.1	Pass
NVNT	2-DH5	2441.0224	2442.0241	1.0017	0.1	Pass
NVNT	2-DH5	2479.0239	2480.0241	1.0002	0.1	Pass
NVNT	3-DH5	2402.0245	2403.0094	0.9849	0.1	Pass
NVNT	3-DH5	2441.0245	2442.0247	1.0002	0.1	Pass
NVNT	3-DH5	2479.0236	2480.0235	0.9999	0.1	Pass

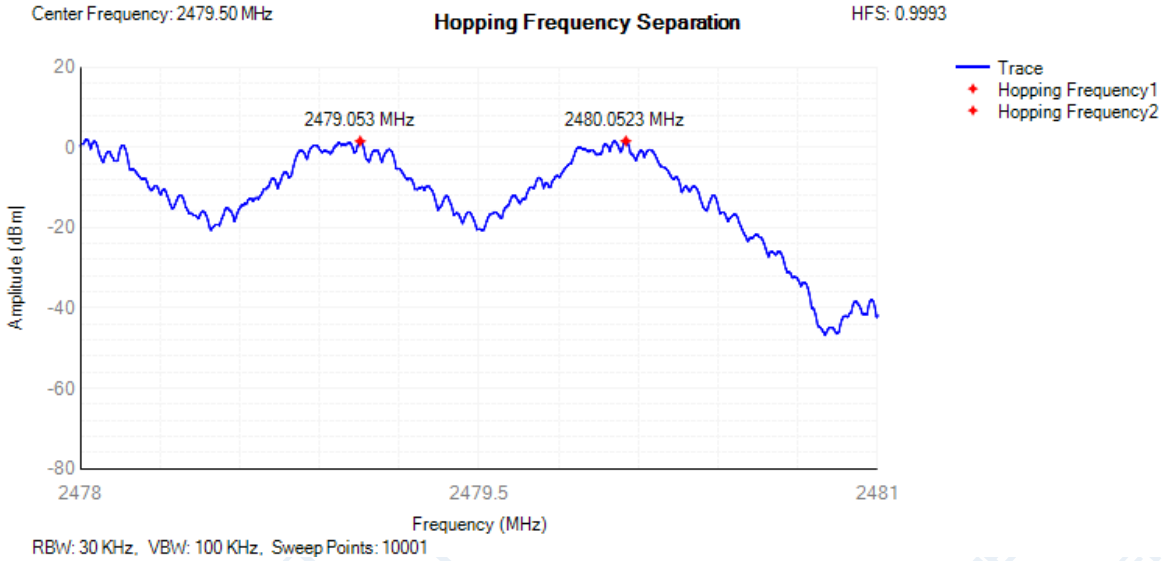
HFS NVNT 1-DH5 2402MHz



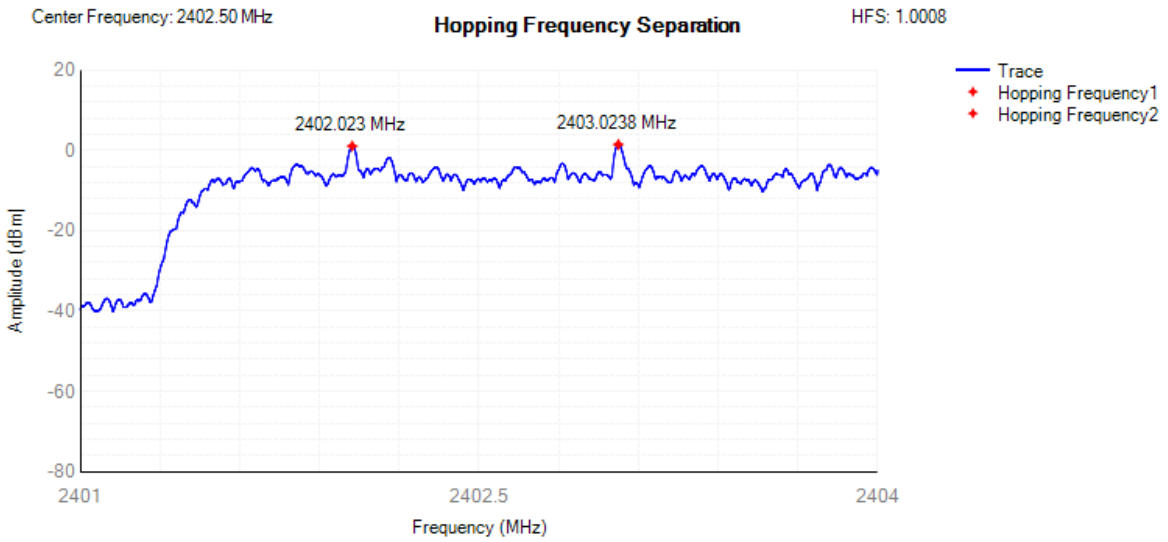
HFS NVNT 1-DH5 2441MHz



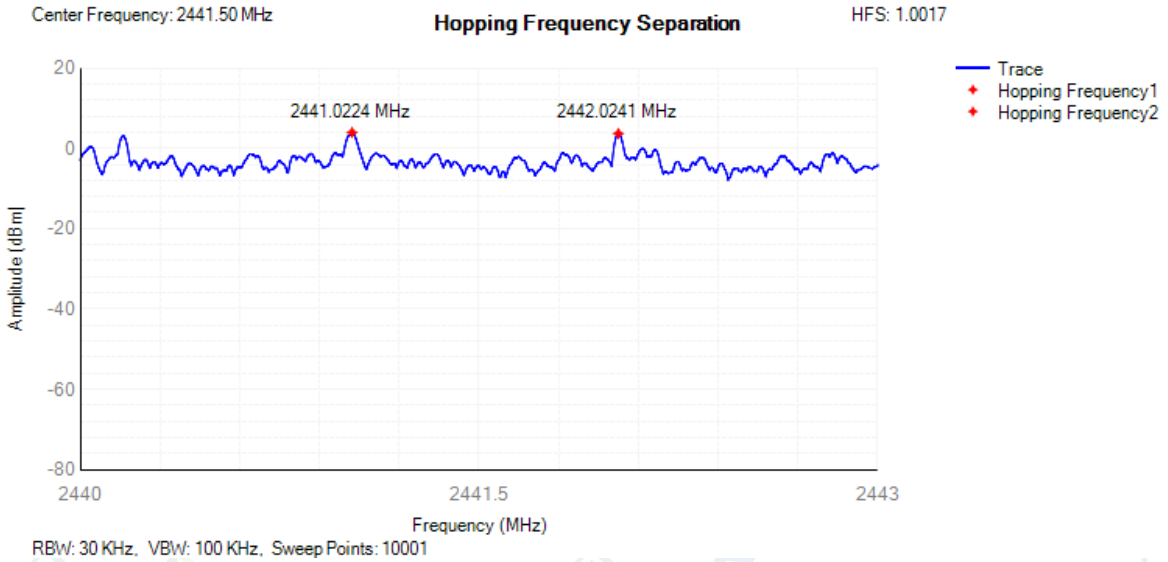
HFS NVNT 1-DH5 2480MHz



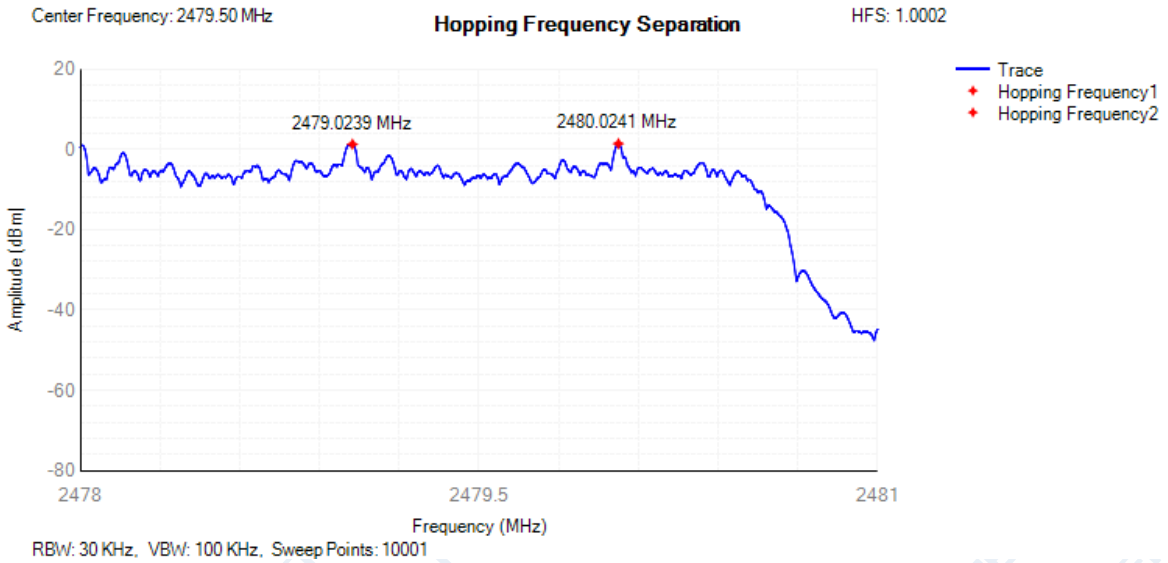
HFS NVNT 2-DH5 2402MHz



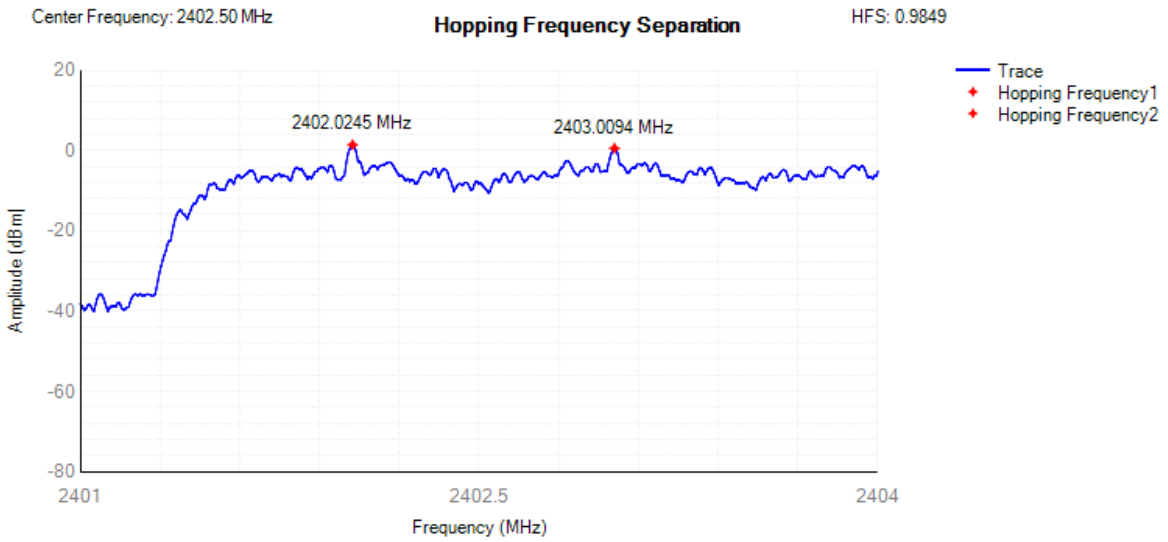
HFS NVNT 2-DH5 2441MHz



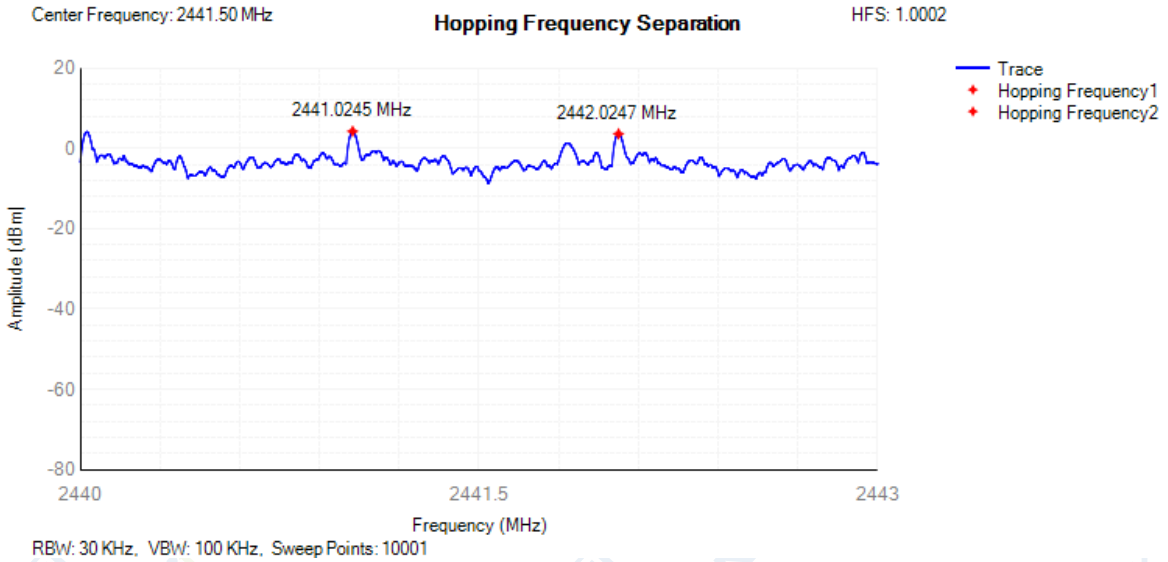
HFS NVNT 2-DH5 2480MHz



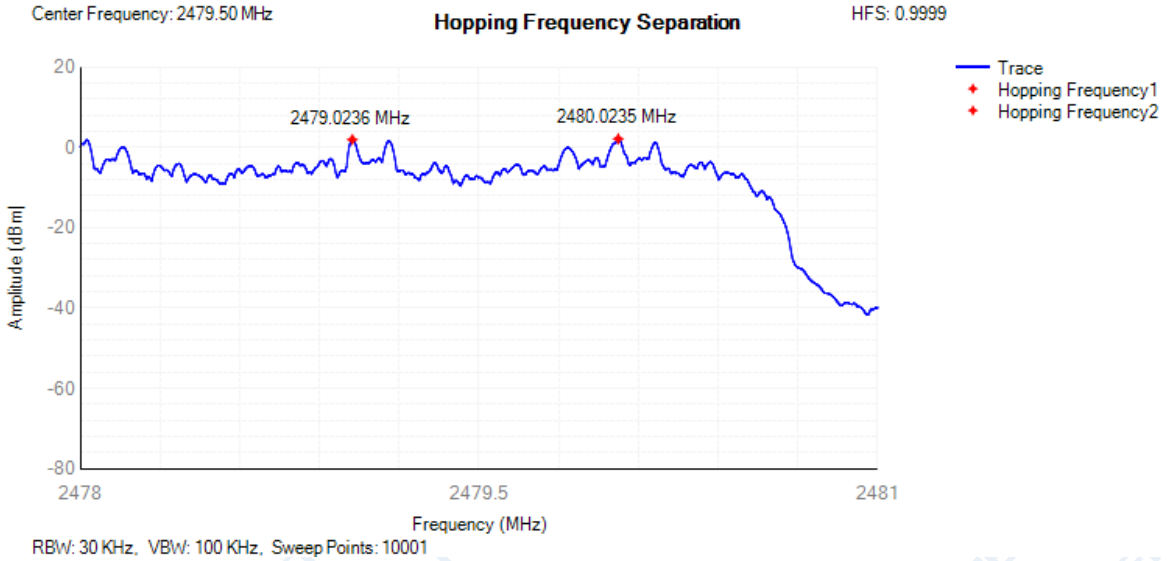
HFS NVNT 3-DH5 2402MHz



HFS NVNT 3-DH5 2441MHz



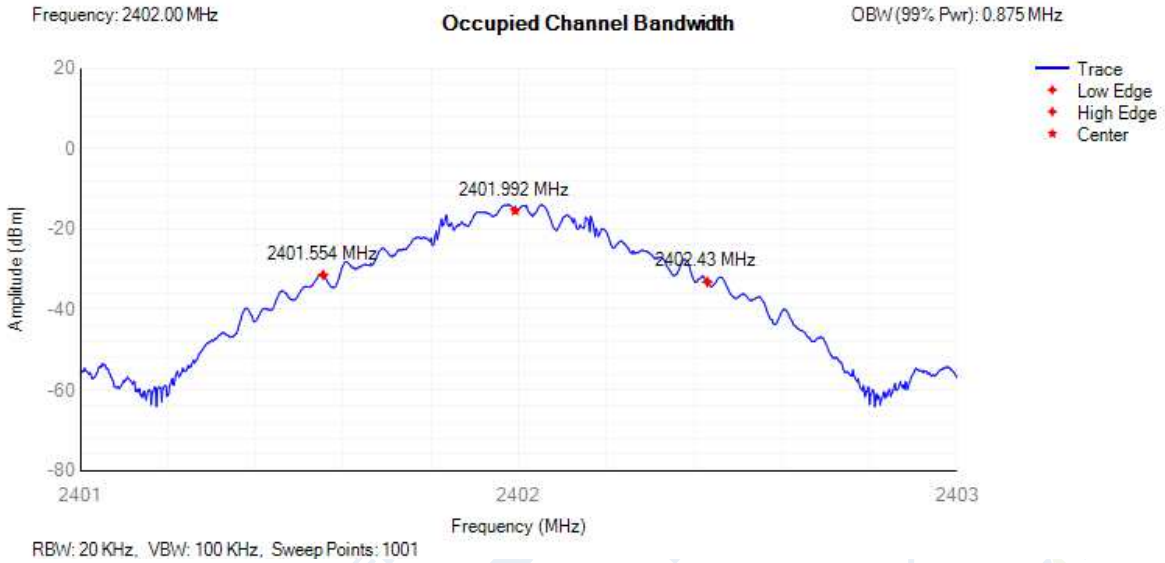
HFS NVNT 3-DH5 2480MHz



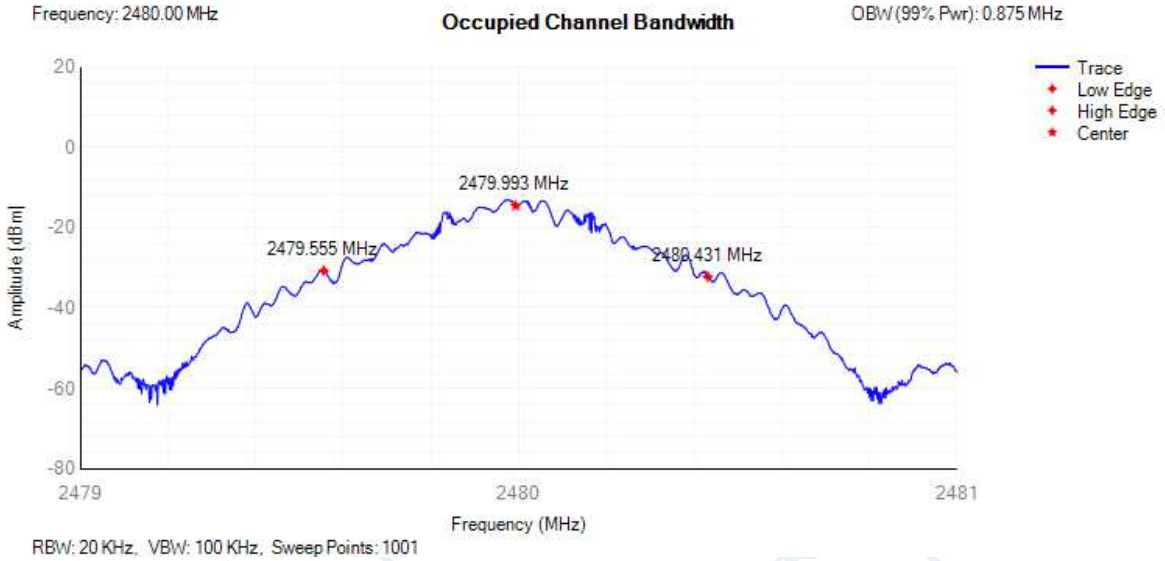
11.6 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2401.992	0.875	2401.554	2402.43	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.993	0.875	2479.555	2480.431	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2401.999	1.197	2401.401	2402.597	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2479.996	1.183	2479.405	2480.587	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2401.996	1.203	2401.395	2402.597	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.996	1.199	2479.397	2480.595	2400 - 2483.5MHz	Pass

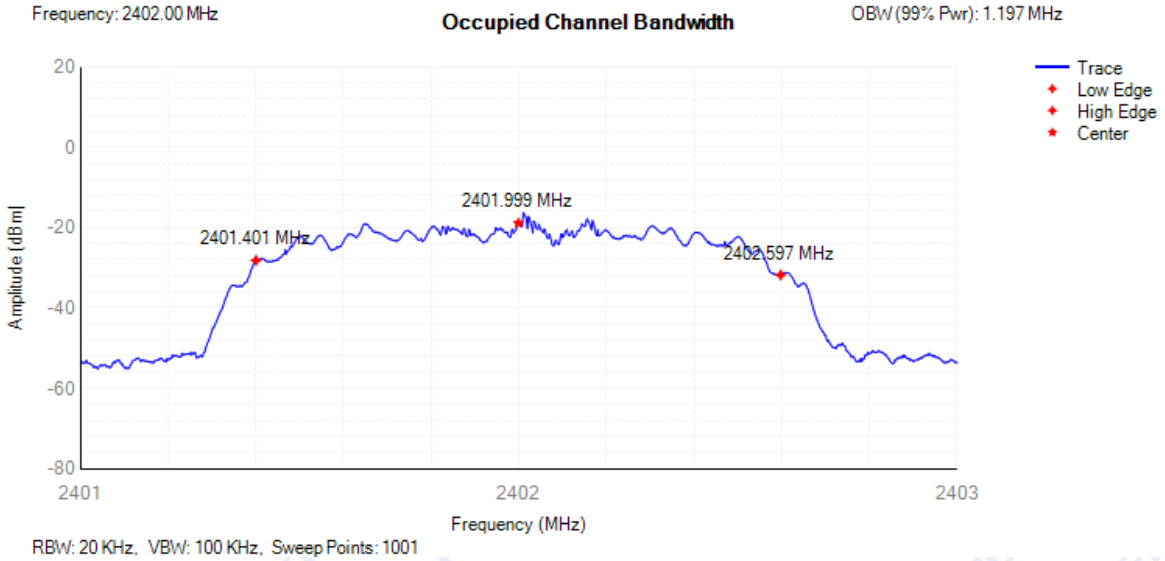
OBW NVNT 1-DH5 2402MHz



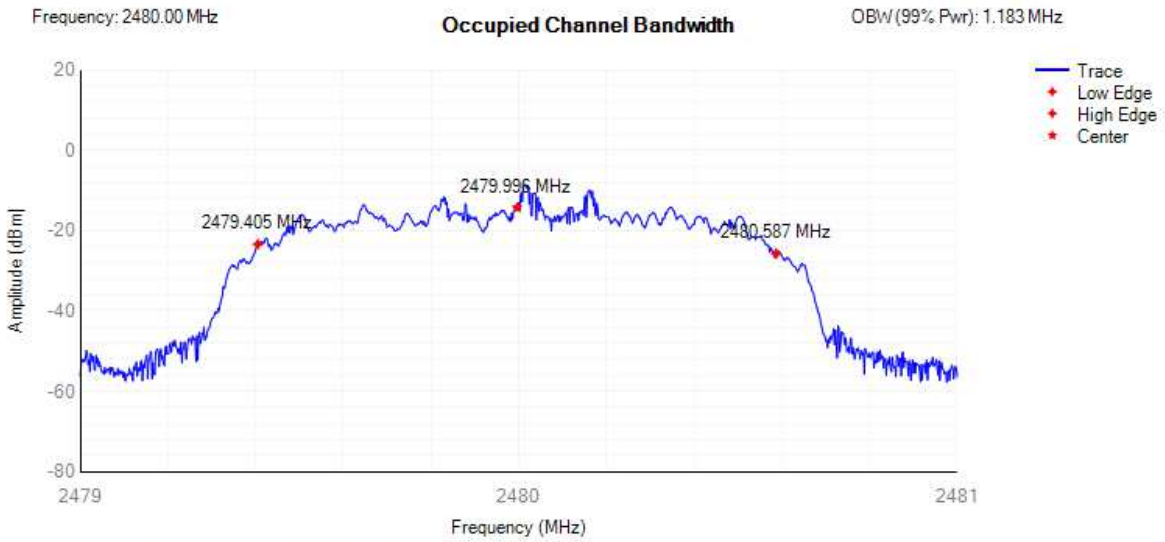
OBW NVNT 1-DH5 2480MHz



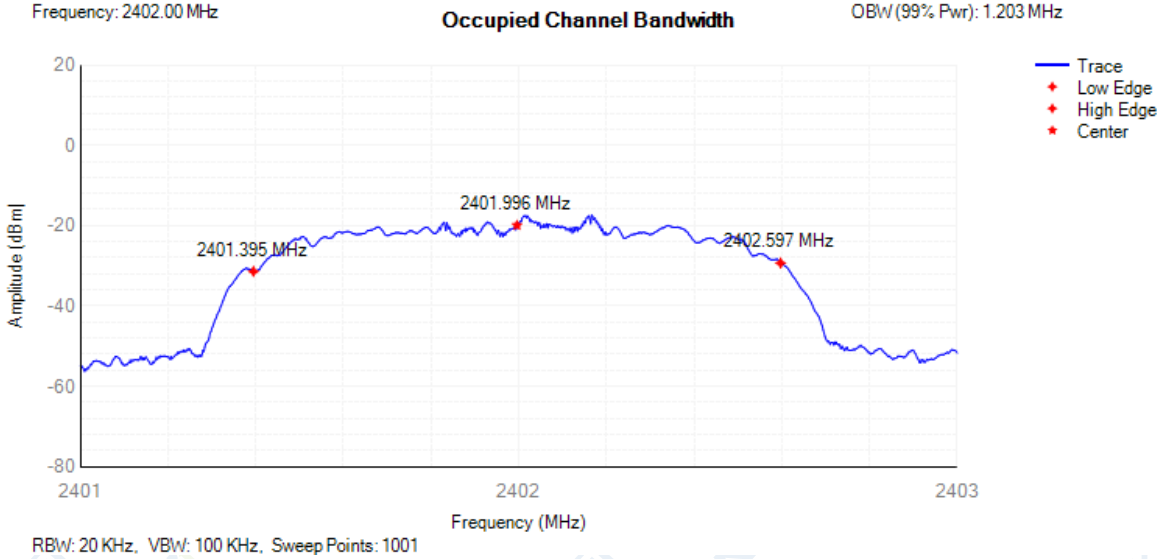
OBW NVNT 2-DH5 2402MHz



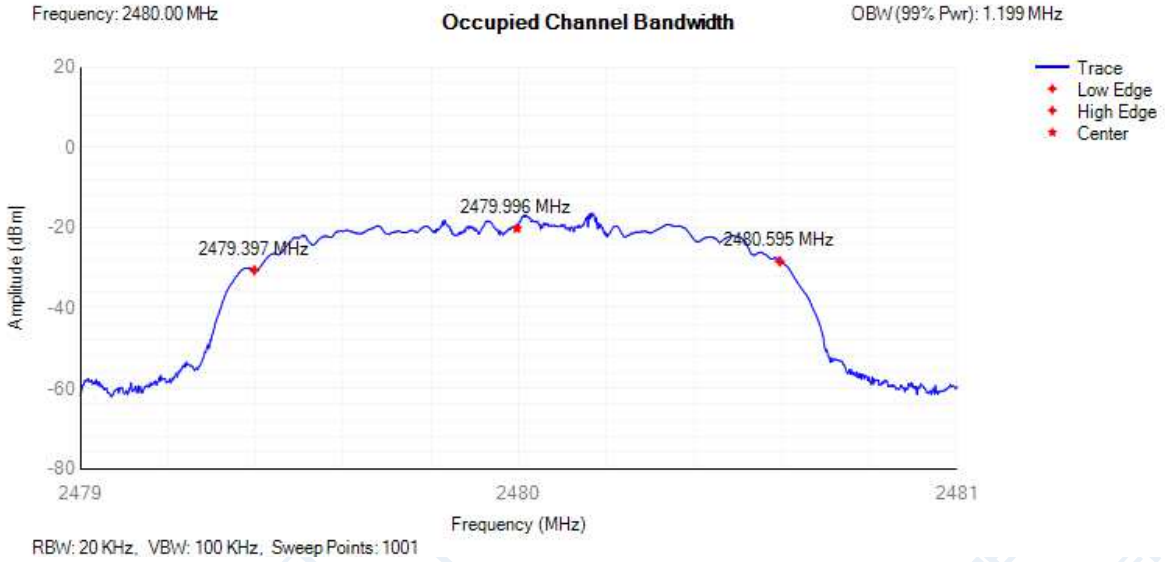
OBW NVNT 2-DH5 2480MHz



OBW NVNT 3-DH5 2402MHz



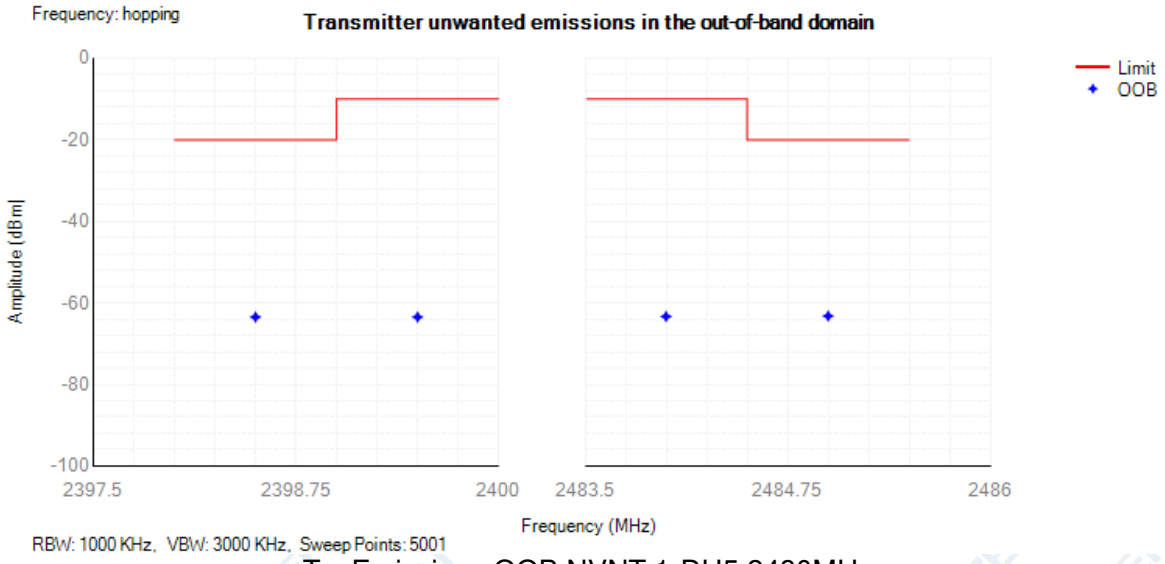
OBW NVNT 3-DH5 2480MHz



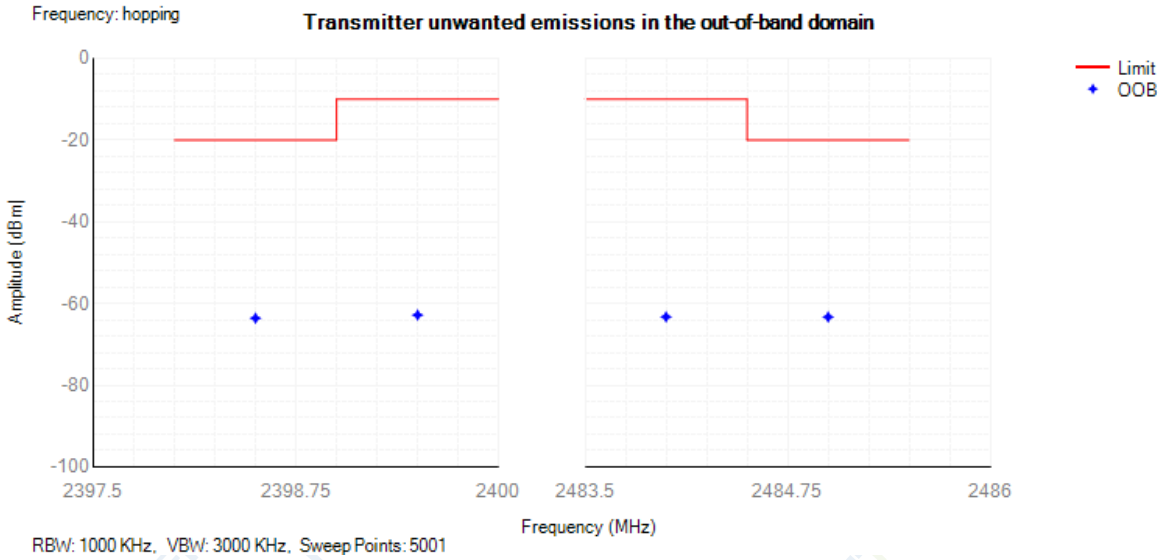
11.7Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	hopping	2399.5	-63.46	-10	Pass
NVNT	1-DH5	hopping	2398.5	-63.46	-20	Pass
NVNT	1-DH5	hopping	2484	-63.32	-10	Pass
NVNT	1-DH5	hopping	2485	-63.2	-20	Pass
NVNT	1-DH5	hopping	2399.5	-62.82	-10	Pass
NVNT	1-DH5	hopping	2398.5	-63.59	-20	Pass
NVNT	1-DH5	hopping	2484	-63.28	-10	Pass
NVNT	1-DH5	hopping	2485	-63.3	-20	Pass
NVNT	2-DH5	hopping	2399.5	-62.28	-10	Pass
NVNT	2-DH5	hopping	2399.303	-63.47	-10	Pass
NVNT	2-DH5	hopping	2398.303	-63.45	-20	Pass
NVNT	2-DH5	hopping	2398.106	-63.29	-20	Pass
NVNT	2-DH5	hopping	2484	-62.91	-10	Pass
NVNT	2-DH5	hopping	2485	-63.25	-20	Pass
NVNT	2-DH5	hopping	2399.5	-63.5	-10	Pass
NVNT	2-DH5	hopping	2399.303	-63.46	-10	Pass
NVNT	2-DH5	hopping	2398.303	-63.52	-20	Pass
NVNT	2-DH5	hopping	2398.106	-63.64	-20	Pass
NVNT	2-DH5	hopping	2484	-62.93	-10	Pass
NVNT	2-DH5	hopping	2484.183	-63.25	-10	Pass
NVNT	2-DH5	hopping	2485.183	-63.01	-20	Pass
NVNT	2-DH5	hopping	2485.366	-63.19	-20	Pass
NVNT	3-DH5	hopping	2399.5	-37.54	-10	Pass
NVNT	3-DH5	hopping	2399.297	-37.87	-10	Pass
NVNT	3-DH5	hopping	2398.297	-37.8	-20	Pass
NVNT	3-DH5	hopping	2398.094	-37.78	-20	Pass
NVNT	3-DH5	hopping	2484	-37.44	-10	Pass
NVNT	3-DH5	hopping	2484.183	-37.53	-10	Pass
NVNT	3-DH5	hopping	2485.183	-37.63	-20	Pass
NVNT	3-DH5	hopping	2485.366	-37.53	-20	Pass
NVNT	3-DH5	hopping	2399.5	-63.3	-10	Pass
NVNT	3-DH5	hopping	2399.297	-63.51	-10	Pass
NVNT	3-DH5	hopping	2398.297	-63.45	-20	Pass
NVNT	3-DH5	hopping	2398.094	-63.56	-20	Pass
NVNT	3-DH5	hopping	2484	-63.14	-10	Pass
NVNT	3-DH5	hopping	2484.199	-63.26	-10	Pass
NVNT	3-DH5	hopping	2485.199	-62.58	-20	Pass
NVNT	3-DH5	hopping	2485.398	-63.32	-20	Pass

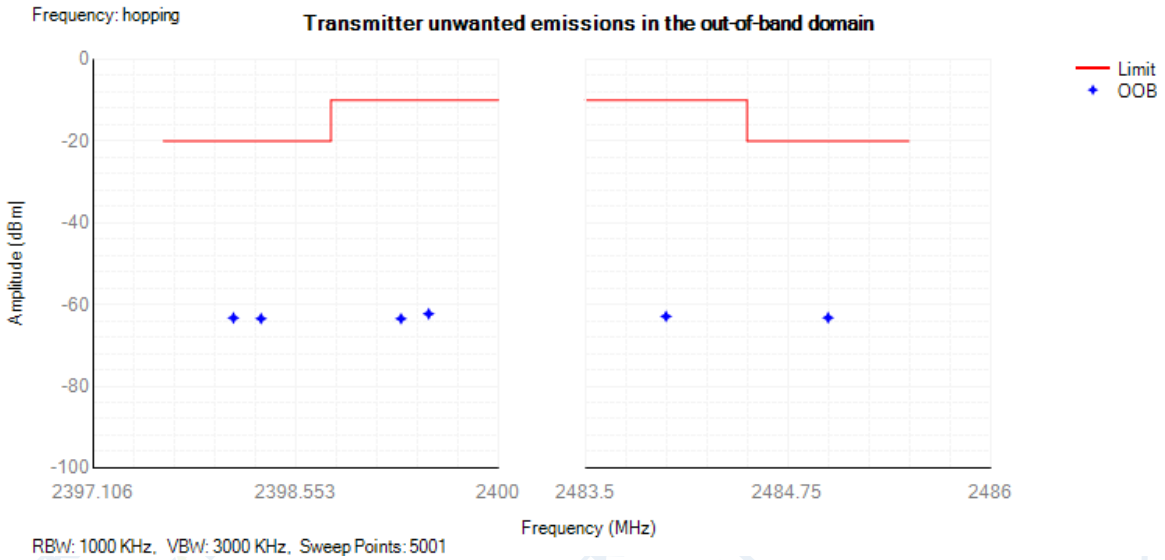
Tx. Emissions OOB NVNT 1-DH5 2402MHz



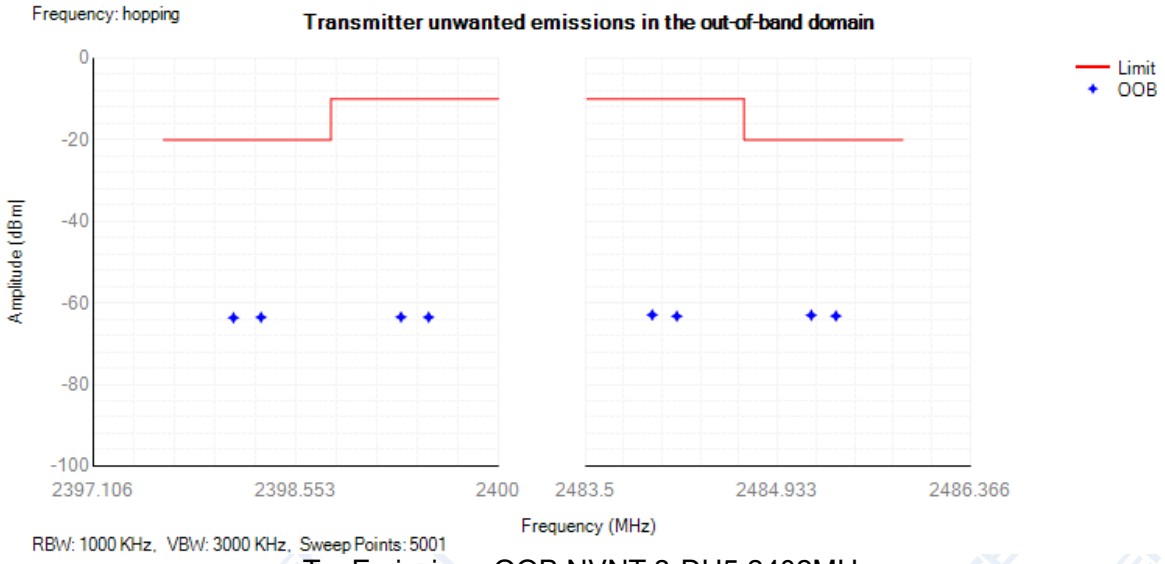
Tx. Emissions OOB NVNT 1-DH5 2480MHz



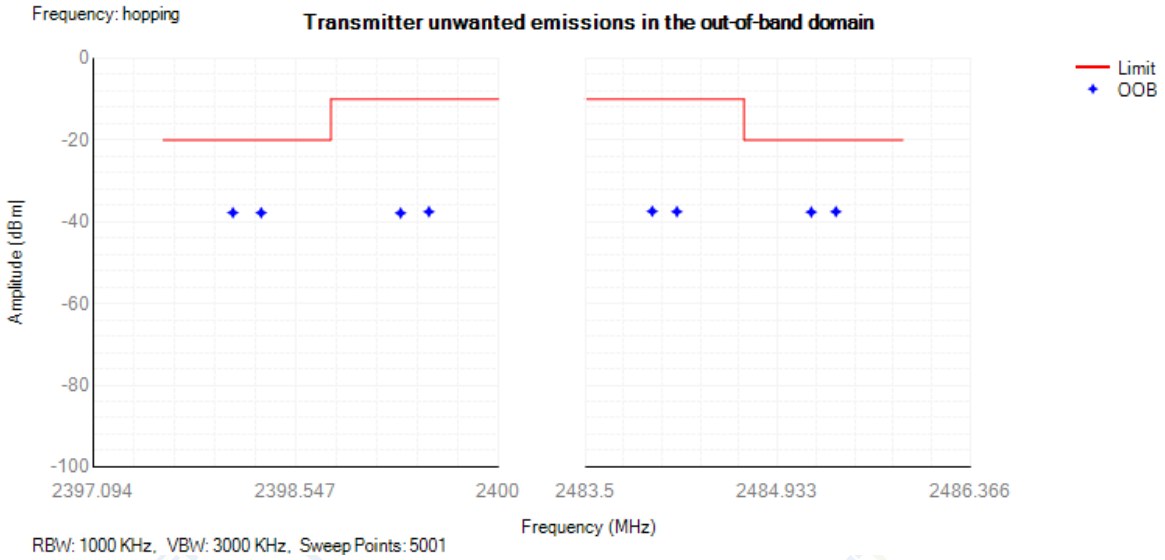
Tx. Emissions OOB NVNT 2-DH5 2402MHz



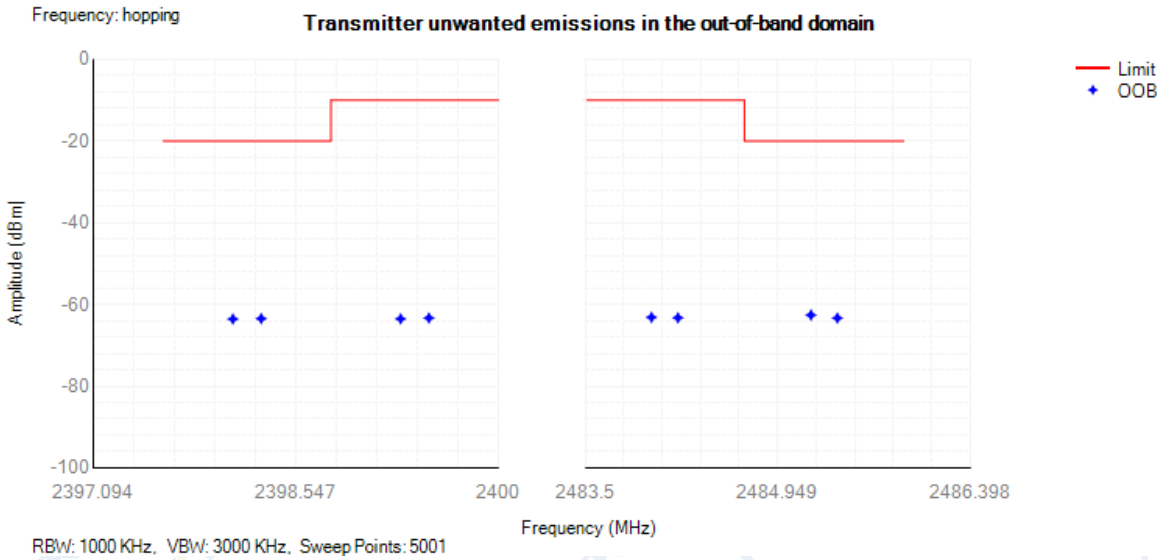
Tx. Emissions OOB NVNT 2-DH5 2480MHz



Tx. Emissions OOB NVNT 3-DH5 2402MHz



Tx. Emissions OOB NVNT 3-DH5 2480MHz



11.8 Transmitter unwanted emissions in the spurious domain

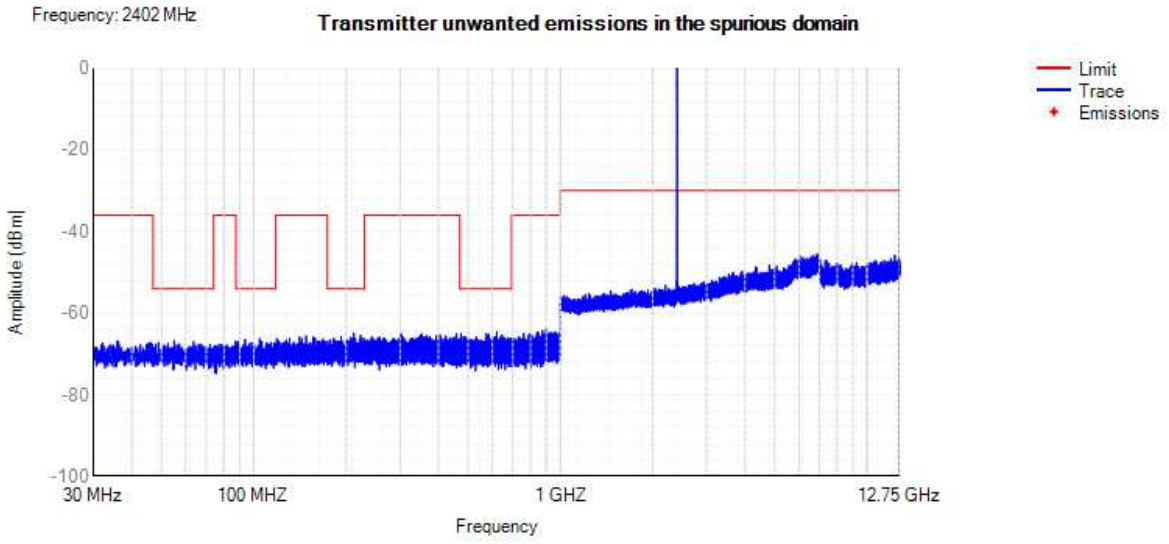
Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	30 MHz -47 MHz	35.9	-66.78	NA	-36	Pass
NVNT	1-DH5	2402	47 MHz -74 MHz	55	-66.73	NA	-54	Pass
NVNT	1-DH5	2402	74 MHz -87.5 MHz	87.25	-66.77	NA	-36	Pass
NVNT	1-DH5	2402	87.5 MHz -118 MHz	104.6	-66.26	NA	-54	Pass
NVNT	1-DH5	2402	118 MHz -174 MHz	148.25	-65.56	NA	-36	Pass
NVNT	1-DH5	2402	174 MHz -230 MHz	212	-64.88	NA	-54	Pass
NVNT	1-DH5	2402	230 MHz -470 MHz	458.5	-64.98	NA	-36	Pass
NVNT	1-DH5	2402	470 MHz -694 MHz	620.35	-64.52	NA	-54	Pass
NVNT	1-DH5	2402	694 MHz -1000 MHz	898.95	-63.99	NA	-36	Pass
NVNT	1-DH5	2402	1000 MHz -2398 MHz	2204	-53.13	NA	-30	Pass
NVNT	1-DH5	2402	2485.5 MHz -12750 MHz	6881	-45.45	NA	-30	Pass
NVNT	1-DH5	2441	30 MHz -47 MHz	37.2	-66.4	NA	-36	Pass
NVNT	1-DH5	2441	47 MHz -74 MHz	55.1	-66.49	NA	-54	Pass
NVNT	1-DH5	2441	74 MHz -87.5 MHz	86.95	-66.17	NA	-36	Pass
NVNT	1-DH5	2441	87.5 MHz -118 MHz	108.95	-64.97	NA	-54	Pass
NVNT	1-DH5	2441	118 MHz -174 MHz	129.2	-65.61	NA	-36	Pass
NVNT	1-DH5	2441	174 MHz -230 MHz	179.1	-65.19	NA	-54	Pass
NVNT	1-DH5	2441	230 MHz -470 MHz	235.4	-64.74	NA	-36	Pass
NVNT	1-DH5	2441	470 MHz -694 MHz	543.3	-64.59	NA	-54	Pass
NVNT	1-DH5	2441	694 MHz -1000 MHz	946.8	-62.95	NA	-36	Pass
NVNT	1-DH5	2441	1000 MHz -2398 MHz	2175.5	-53.3	NA	-30	Pass
NVNT	1-DH5	2441	2485.5 MHz -12750 MHz	6946.5	-45.07	NA	-30	Pass
NVNT	1-DH5	2480	30 MHz -47 MHz	32.4395209580838	-66.09	NA	-36	Pass
NVNT	1-DH5	2480	47 MHz -74 MHz	62.4107784431138	-65.53	NA	-54	Pass
NVNT	1-DH5	2480	74 MHz -87.5 MHz	84.0179640718563	-67.39	NA	-36	Pass
NVNT	1-DH5	2480	87.5 MHz -118 MHz	104.463473053892	-67.02	NA	-54	Pass
NVNT	1-DH5	2480	118 MHz -174 MHz	168.936526946108	-64.63	NA	-36	Pass
NVNT	1-DH5	2480	174 MHz -230 MHz	176.37125748503	-65.18	NA	-54	Pass

NVNT	1-DH5	2480	230 MHz -470 MHz	453.19880239521	-64.28	NA	-36	Pass
NVNT	1-DH5	2480	470 MHz -694 MHz	492.11497005988	-65.09	NA	-54	Pass
NVNT	1-DH5	2480	694 MHz -1000 MHz	948.189221556886	-63.74	NA	-36	Pass
NVNT	1-DH5	2480	1000 MHz -2398 MHz	1920.2994011976	-52.29	NA	-30	Pass
NVNT	1-DH5	2480	2485.5 MHz -12750 MHz	6890.47904191617	-45.4	NA	-30	Pass
NVNT	2-DH5	2402	30 MHz -47 MHz	35.45	-66.3	NA	-36	Pass
NVNT	2-DH5	2402	47 MHz -74 MHz	68.8	-66.72	NA	-54	Pass
NVNT	2-DH5	2402	74 MHz -87.5 MHz	87	-67.62	NA	-36	Pass
NVNT	2-DH5	2402	87.5 MHz -118 MHz	91.65	-65.98	NA	-54	Pass
NVNT	2-DH5	2402	118 MHz -174 MHz	171.25	-65.59	NA	-36	Pass
NVNT	2-DH5	2402	174 MHz -230 MHz	195.65	-65.53	NA	-54	Pass
NVNT	2-DH5	2402	230 MHz -470 MHz	333.15	-65.34	NA	-36	Pass
NVNT	2-DH5	2402	470 MHz -694 MHz	686.6	-65.53	NA	-54	Pass
NVNT	2-DH5	2402	694 MHz -1000 MHz	900	-63.86	NA	-36	Pass
NVNT	2-DH5	2402	1000 MHz -2398 MHz	2397.5	-48.02	NA	-30	Pass
NVNT	2-DH5	2402	2485.5 MHz -12750 MHz	6993	-43.98	NA	-30	Pass
NVNT	2-DH5	2441	30 MHz -47 MHz	45.1	-66.31	NA	-36	Pass
NVNT	2-DH5	2441	47 MHz -74 MHz	47.7	-66.51	NA	-54	Pass
NVNT	2-DH5	2441	74 MHz -87.5 MHz	74.1	-66.65	NA	-36	Pass
NVNT	2-DH5	2441	87.5 MHz -118 MHz	115.65	-66.44	NA	-54	Pass
NVNT	2-DH5	2441	118 MHz -174 MHz	131.05	-65.19	NA	-36	Pass
NVNT	2-DH5	2441	174 MHz -230 MHz	187.05	-64.8	NA	-54	Pass
NVNT	2-DH5	2441	230 MHz -470 MHz	365.35	-64.63	NA	-36	Pass
NVNT	2-DH5	2441	470 MHz -694 MHz	669.1	-64.78	NA	-54	Pass
NVNT	2-DH5	2441	694 MHz -1000 MHz	976.45	-63.82	NA	-36	Pass
NVNT	2-DH5	2441	1000 MHz -2398 MHz	2082.5	-53.36	NA	-30	Pass
NVNT	2-DH5	2441	2485.5 MHz -12750 MHz	6924.5	-45.03	NA	-30	Pass

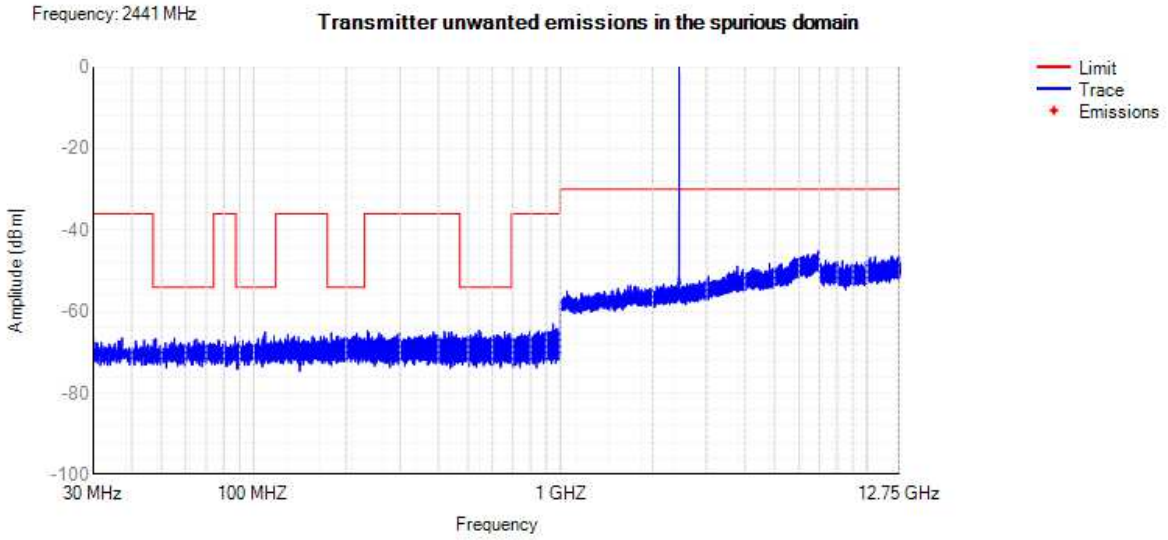
NVNT	2-DH5	2480	30 MHz -47 MHz	34.762874251497	-66.71	NA	-36	Pass
NVNT	2-DH5	2480	47 MHz -74 MHz	47.4251497005988	-66.18	NA	-54	Pass
NVNT	2-DH5	2480	74 MHz -87.5 MHz	84.3664670658683	-66.45	NA	-36	Pass
NVNT	2-DH5	2480	87.5 MHz -118 MHz	113.524550898204	-66.32	NA	-54	Pass
NVNT	2-DH5	2480	118 MHz -174 MHz	172.88622754491	-65.7	NA	-36	Pass
NVNT	2-DH5	2480	174 MHz -230 MHz	200.99880239521	-65.2	NA	-54	Pass
NVNT	2-DH5	2480	230 MHz -470 MHz	273.138922155689	-64.72	NA	-36	Pass
NVNT	2-DH5	2480	470 MHz -694 MHz	593.064670658683	-64.87	NA	-54	Pass
NVNT	2-DH5	2480	694 MHz -1000 MHz	870.821556886227	-63.93	NA	-36	Pass
NVNT	2-DH5	2480	1000 MHz -2398 MHz	1671.22754491018	-53.86	NA	-30	Pass
NVNT	2-DH5	2480	2485.5 MHz -12750 MHz	6925.65868263473	-44.65	NA	-30	Pass
NVNT	3-DH5	2402	30 MHz -47 MHz	35.85	-66.46	NA	-36	Pass
NVNT	3-DH5	2402	47 MHz -74 MHz	65.8	-65.89	NA	-54	Pass
NVNT	3-DH5	2402	74 MHz -87.5 MHz	87	-66.73	NA	-36	Pass
NVNT	3-DH5	2402	87.5 MHz -118 MHz	96.65	-66.77	NA	-54	Pass
NVNT	3-DH5	2402	118 MHz -174 MHz	123.25	-65.99	NA	-36	Pass
NVNT	3-DH5	2402	174 MHz -230 MHz	215.8	-64.95	NA	-54	Pass
NVNT	3-DH5	2402	230 MHz -470 MHz	376.85	-64.83	NA	-36	Pass
NVNT	3-DH5	2402	470 MHz -694 MHz	541.05	-65.48	NA	-54	Pass
NVNT	3-DH5	2402	694 MHz -1000 MHz	990.45	-63.4	NA	-36	Pass
NVNT	3-DH5	2402	1000 MHz -2398 MHz	2397.5	-47	NA	-30	Pass
NVNT	3-DH5	2402	2485.5 MHz -12750 MHz	6942	-44.5	NA	-30	Pass
NVNT	3-DH5	2441	30 MHz -47 MHz	33.4	-67.16	NA	-36	Pass
NVNT	3-DH5	2441	47 MHz -74 MHz	73.05	-66.29	NA	-54	Pass
NVNT	3-DH5	2441	74 MHz -87.5 MHz	81.65	-66.89	NA	-36	Pass
NVNT	3-DH5	2441	87.5 MHz -118 MHz	117	-65.94	NA	-54	Pass
NVNT	3-DH5	2441	118 MHz -174 MHz	159.9	-65.35	NA	-36	Pass
NVNT	3-DH5	2441	174 MHz -230 MHz	194.15	-65.53	NA	-54	Pass
NVNT	3-DH5	2441	230 MHz -470 MHz	330.75	-65.27	NA	-36	Pass

NVNT	3-DH5	2441	470 MHz -694 MHz	662.35	-65.53	NA	-54	Pass
NVNT	3-DH5	2441	694 MHz -1000 MHz	884.1	-64.4	NA	-36	Pass
NVNT	3-DH5	2441	1000 MHz -2398 MHz	1711	-51.5	NA	-30	Pass
NVNT	3-DH5	2441	2485.5 MHz -12750 MHz	6958.5	-44.51	NA	-30	Pass
NVNT	3-DH5	2480	30 MHz -47 MHz	32.3	-67.11	NA	-36	Pass
NVNT	3-DH5	2480	47 MHz -74 MHz	67.95	-66.16	NA	-54	Pass
NVNT	3-DH5	2480	74 MHz -87.5 MHz	81.8	-66.93	NA	-36	Pass
NVNT	3-DH5	2480	87.5 MHz -118 MHz	114.1	-66.09	NA	-54	Pass
NVNT	3-DH5	2480	118 MHz -174 MHz	153.35	-65.47	NA	-36	Pass
NVNT	3-DH5	2480	174 MHz -230 MHz	177.4	-64.93	NA	-54	Pass
NVNT	3-DH5	2480	230 MHz -470 MHz	343.3	-64.76	NA	-36	Pass
NVNT	3-DH5	2480	470 MHz -694 MHz	643.2	-64.75	NA	-54	Pass
NVNT	3-DH5	2480	694 MHz -1000 MHz	984.15	-63.59	NA	-36	Pass
NVNT	3-DH5	2480	1000 MHz -2398 MHz	1956.5	-43.06	NA	-30	Pass
NVNT	3-DH5	2480	2485.5 MHz -12750 MHz	6869	-44.51	NA	-30	Pass

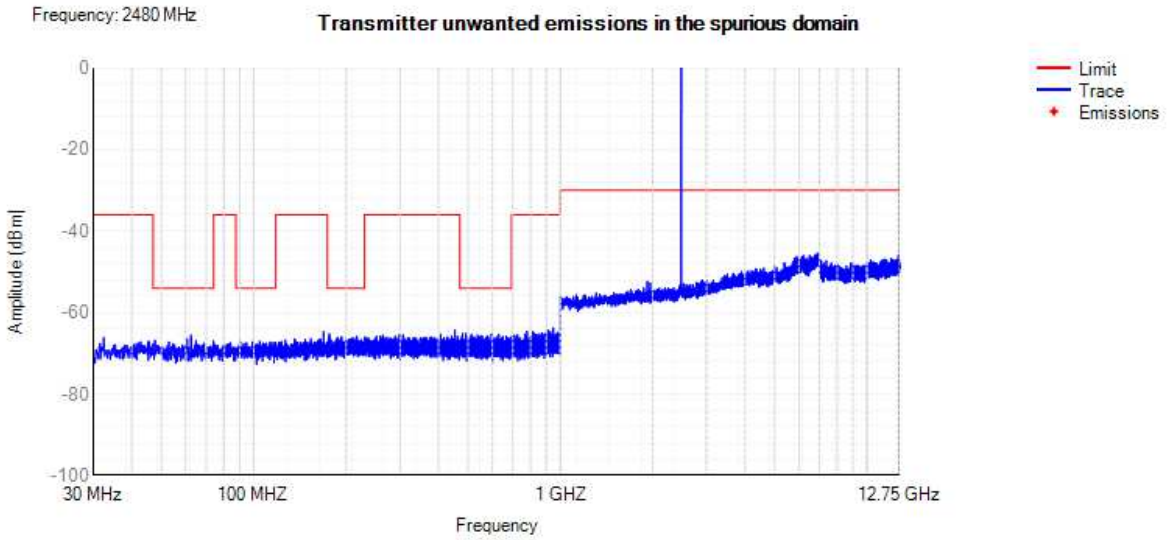
Tx. Spurious NVNT 1-DH5 2402MHz



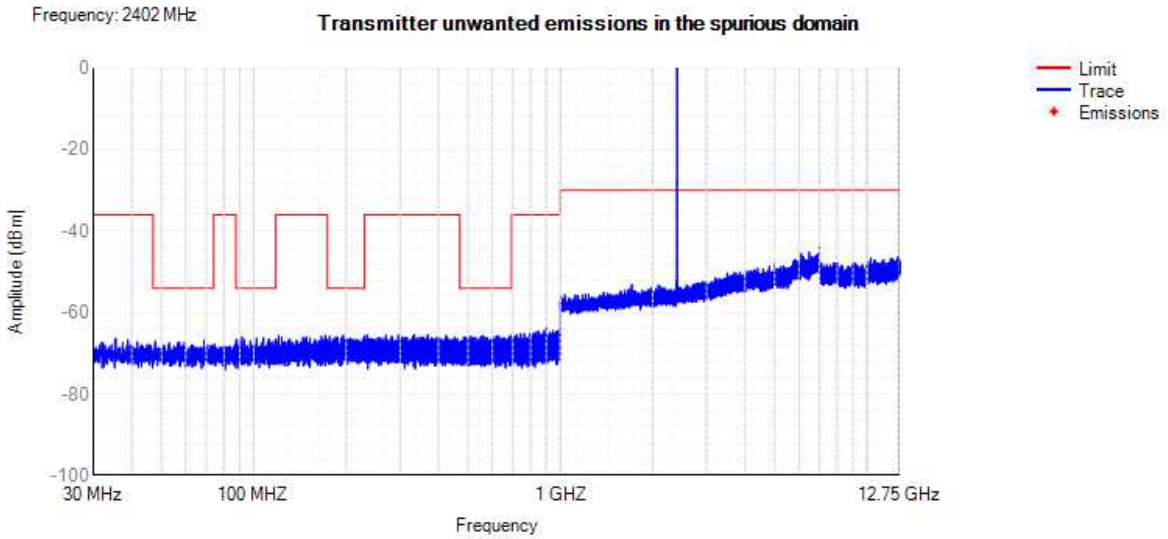
Tx. Spurious NVNT 1-DH5 2441MHz



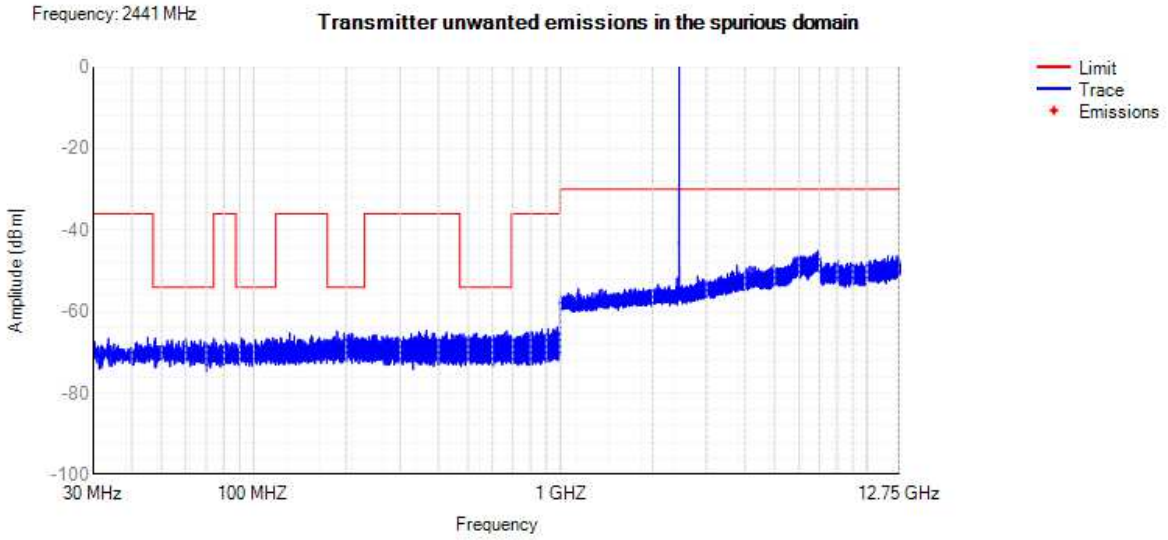
Tx. Spurious NVNT 1-DH5 2480MHz



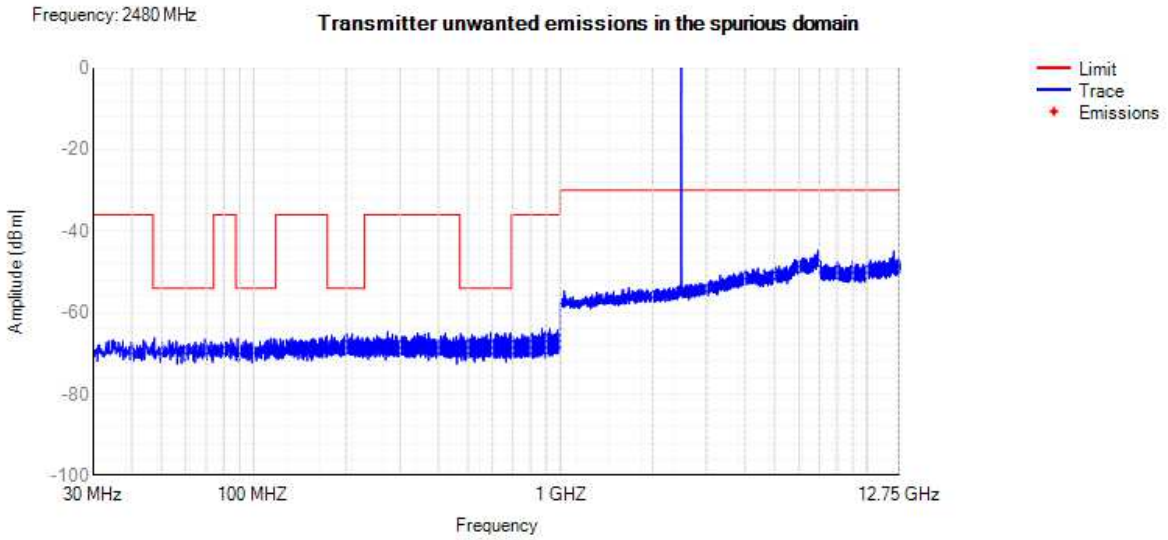
Tx. Spurious NVNT 2-DH5 2402MHz



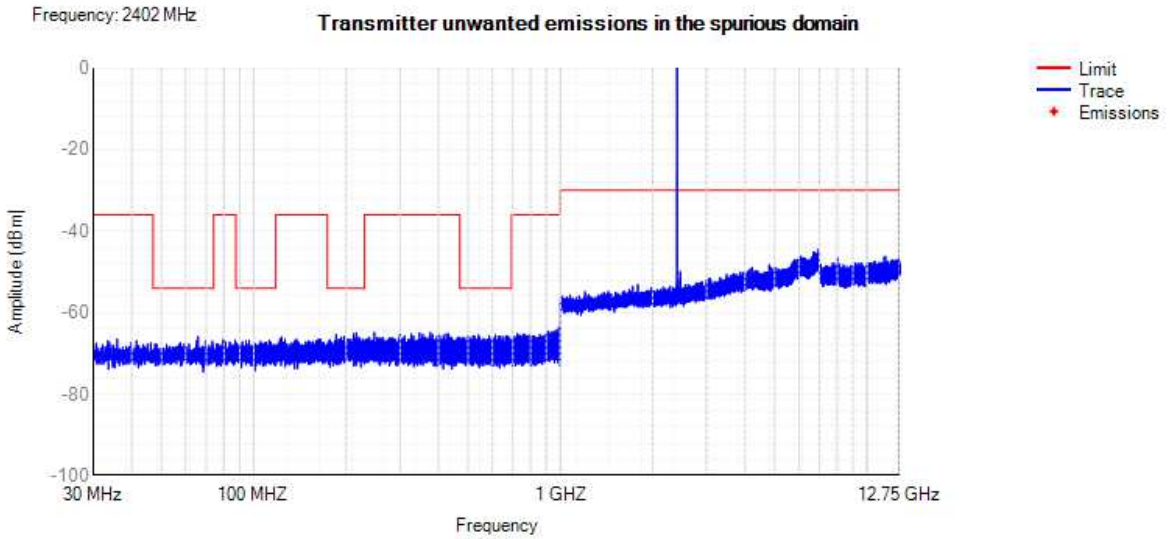
Tx. Spurious NVNT 2-DH5 2441MHz



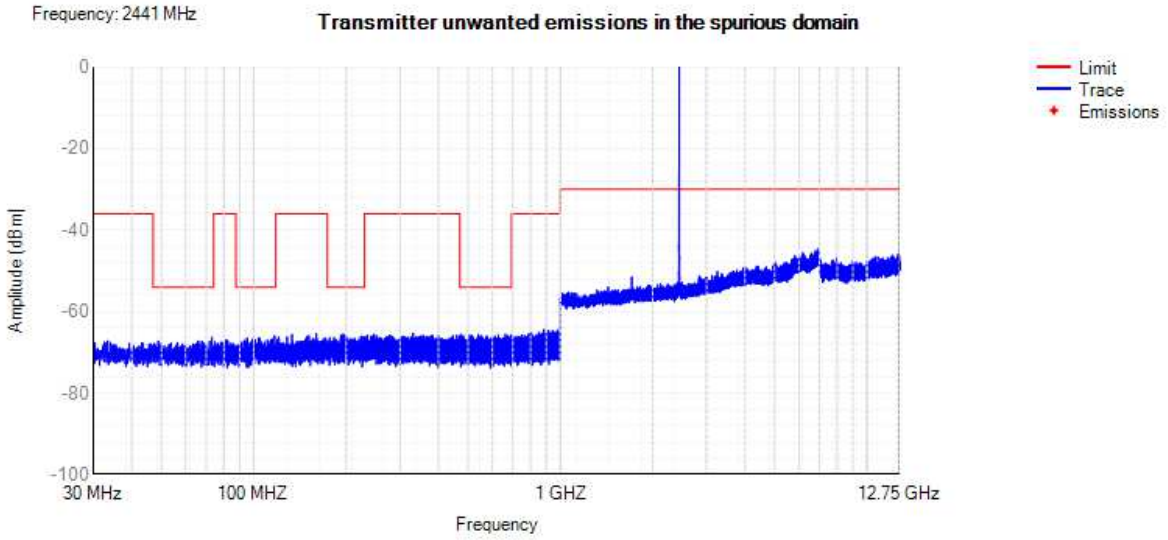
Tx. Spurious NVNT 2-DH5 2480MHz



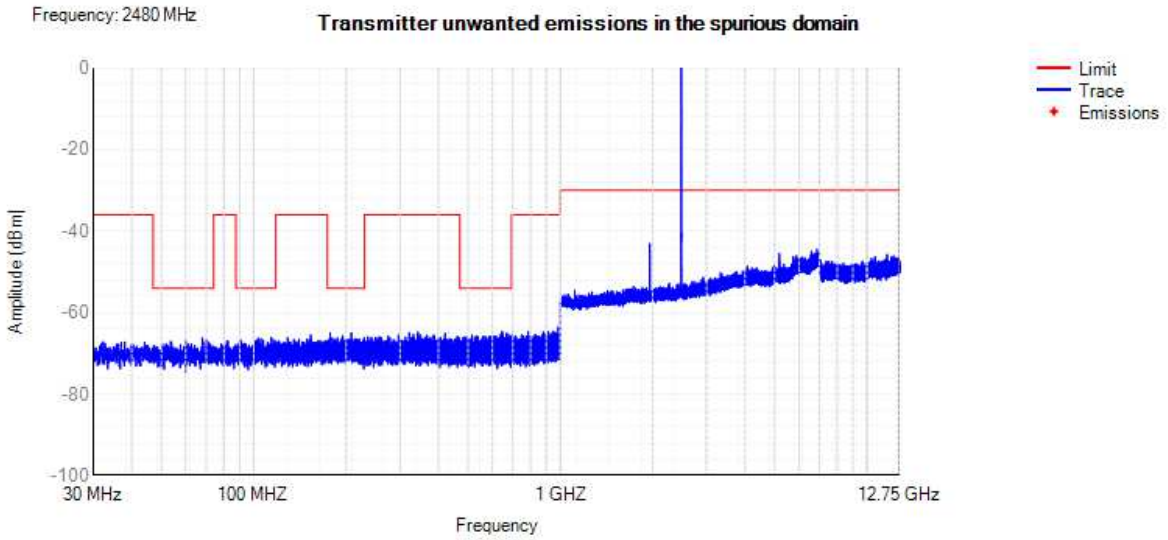
Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2441MHz



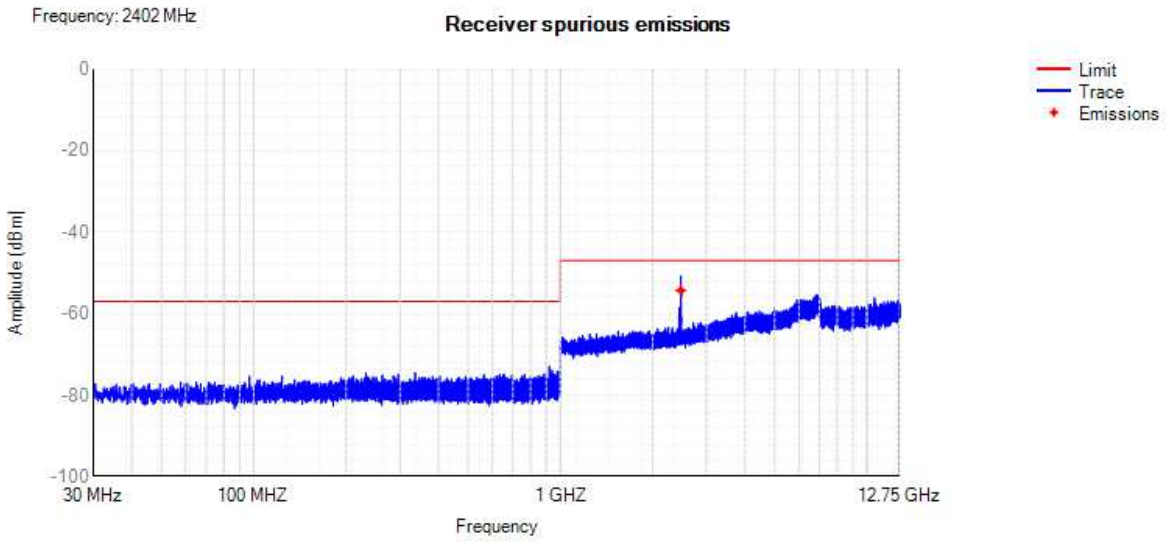
Tx. Spurious NVNT 3-DH5 2480MHz



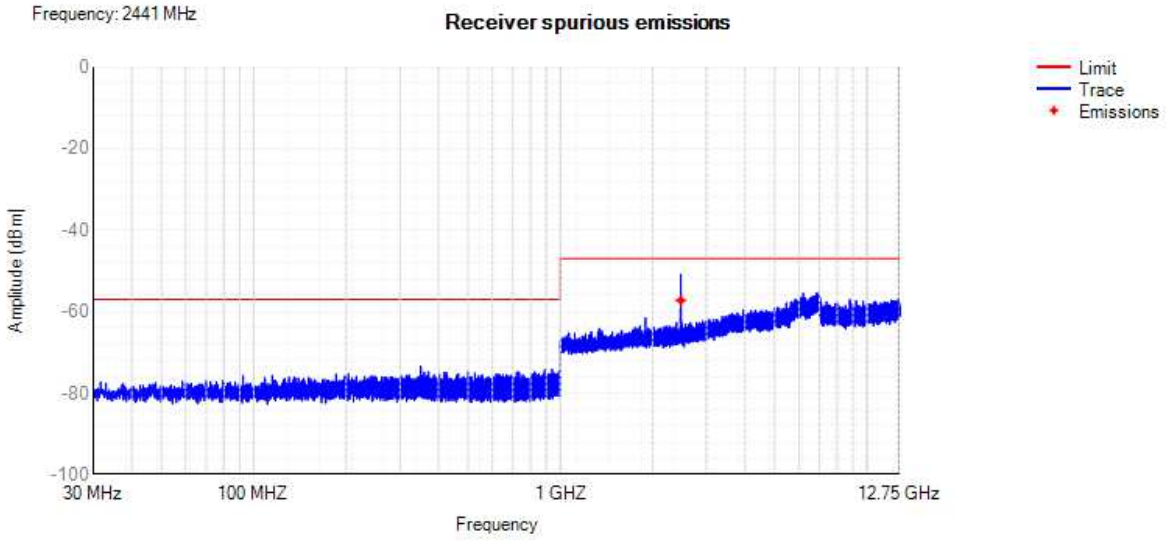
11.9 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	30 MHz -1000 MHz	921.2	-72.9	NA	-57	Pass
NVNT	1-DH5	2402	1000 MHz -12750 MHz	2470.31230055738	-50.8	-54.32	-47	Pass
NVNT	1-DH5	2441	30 MHz -1000 MHz	350.65	-73.41	NA	-57	Pass
NVNT	1-DH5	2441	1000 MHz -12750 MHz	2470.5	-50.84	-57.25	-47	Pass
NVNT	1-DH5	2480	30 MHz -1000 MHz	695.9	-73.32	NA	-57	Pass
NVNT	1-DH5	2480	1000 MHz -12750 MHz	2470.5	-50.89	-54.19	-47	Pass
NVNT	2-DH5	2402	30 MHz -1000 MHz	986.2	-73.04	NA	-57	Pass
NVNT	2-DH5	2402	1000 MHz -12750 MHz	2468.5	-53.39	NA	-47	Pass
NVNT	2-DH5	2441	30 MHz -1000 MHz	780.25	-74.08	NA	-57	Pass
NVNT	2-DH5	2441	1000 MHz -12750 MHz	6664.5	-55.18	NA	-47	Pass
NVNT	2-DH5	2483	30 MHz -1000 MHz	258.2	-73.55	NA	-57	Pass
NVNT	2-DH5	2483	1000 MHz -12750 MHz	2468.5	-53.24	NA	-47	Pass
NVNT	3-DH5	2402	30 MHz -1000 MHz	588.7	-73.77	NA	-57	Pass
NVNT	3-DH5	2402	1000 MHz -12750 MHz	2470.5	-51.54	-53.68	-47	Pass
NVNT	3-DH5	2441	30 MHz -1000 MHz	884.85	-74.09	NA	-57	Pass
NVNT	3-DH5	2441	1000 MHz -12750 MHz	2471	-51.62	-55.67	-47	Pass
NVNT	3-DH5	2480	30 MHz -1000 MHz	769.05	-74.35	NA	-57	Pass
NVNT	3-DH5	2480	1000 MHz -12750 MHz	2468.5	-52.65	-55.84	-47	Pass

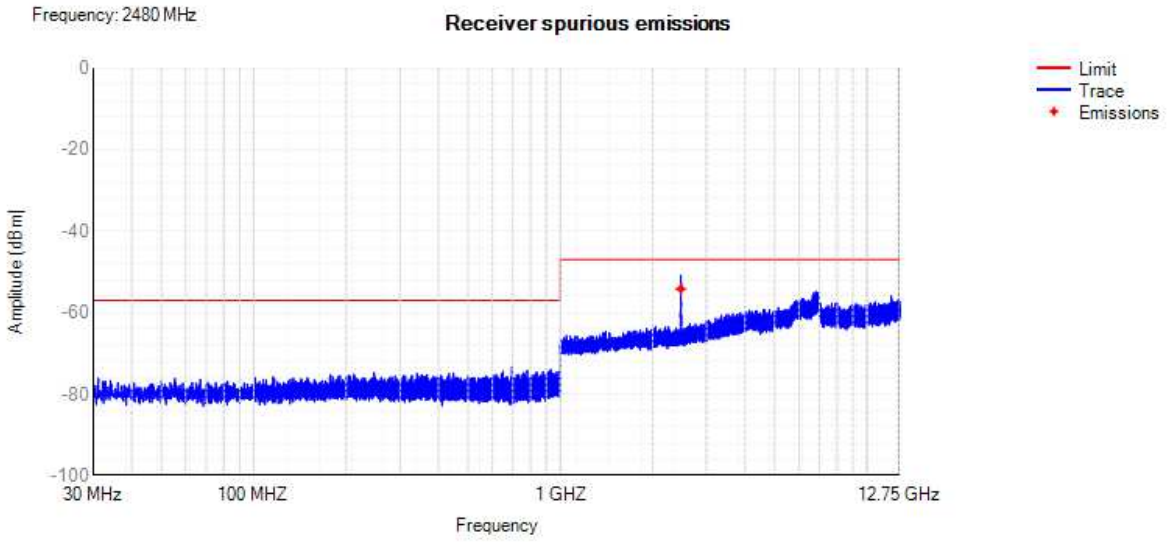
Rx. Spurious NVNT 1-DH5 2402MHz



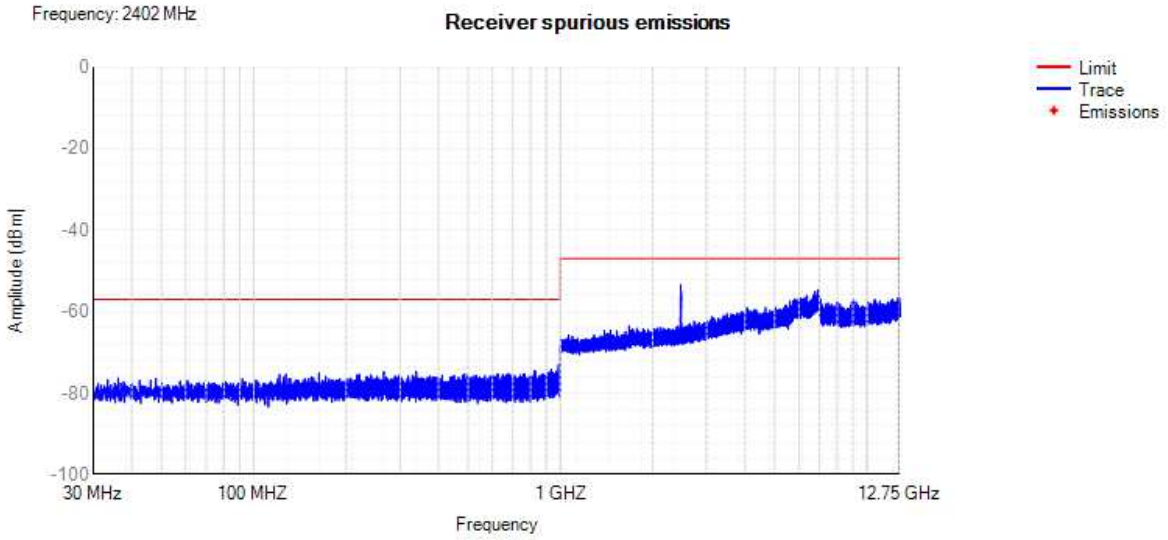
Rx. Spurious NVNT 1-DH5 2441MHz



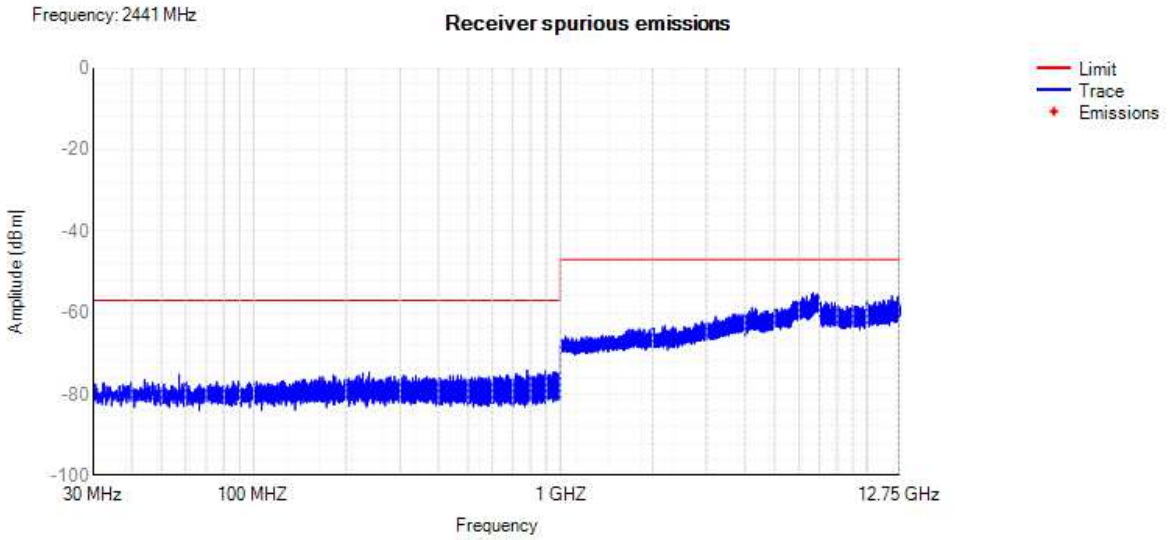
Rx. Spurious NVNT 1-DH5 2480MHz



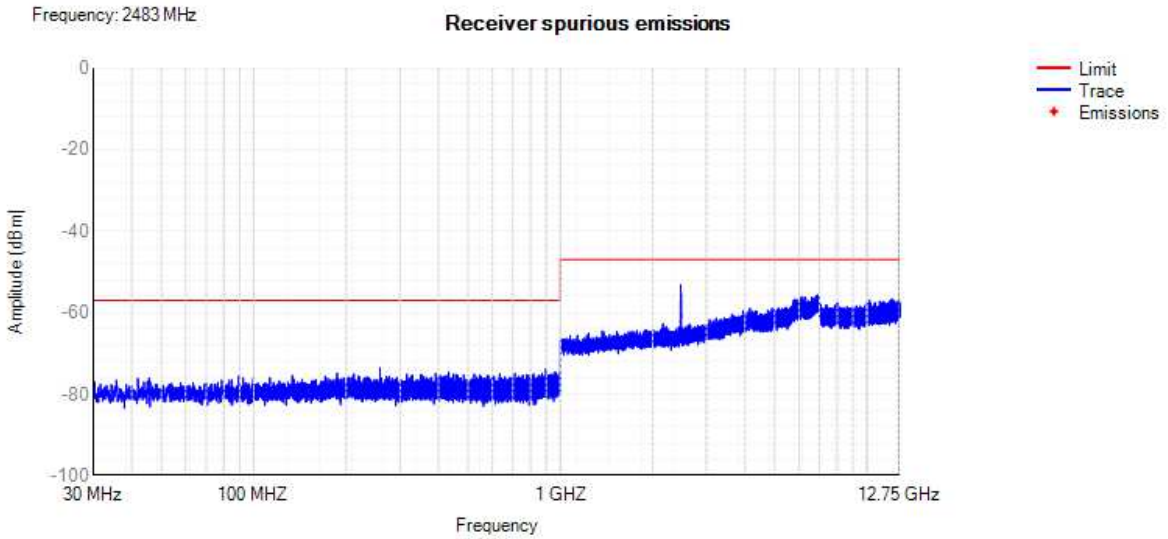
Rx. Spurious NVNT 2-DH5 2402MHz



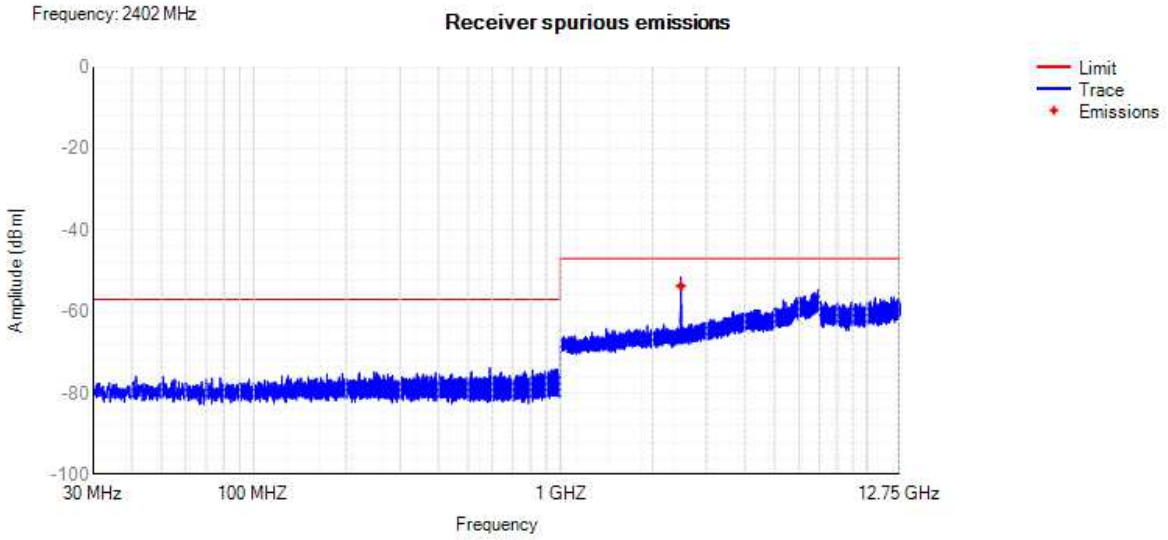
Rx. Spurious NVNT 2-DH5 2441MHz



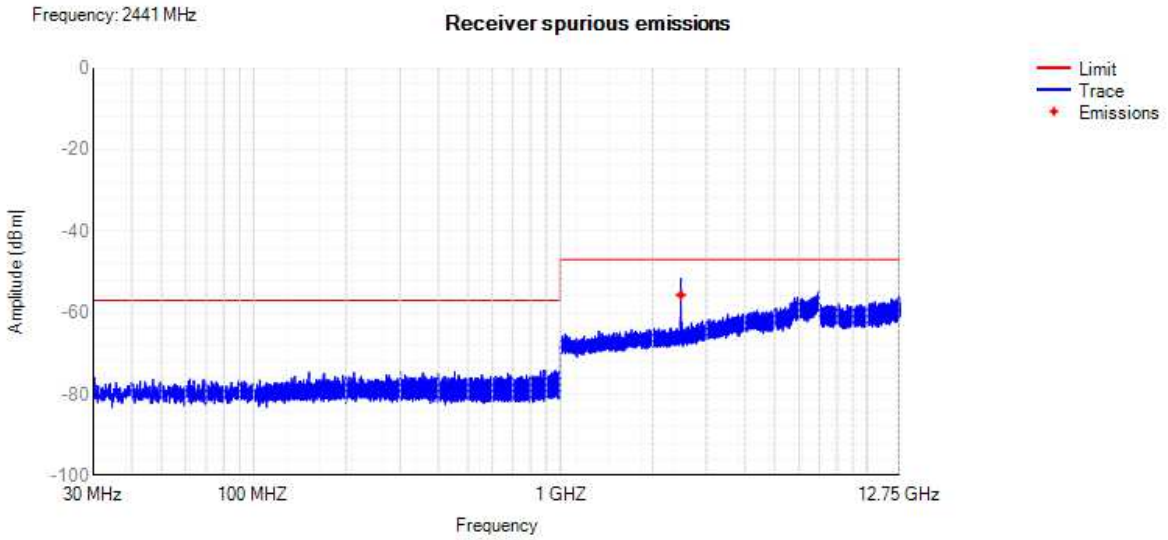
Rx. Spurious NVNT 2-DH5 2483MHz



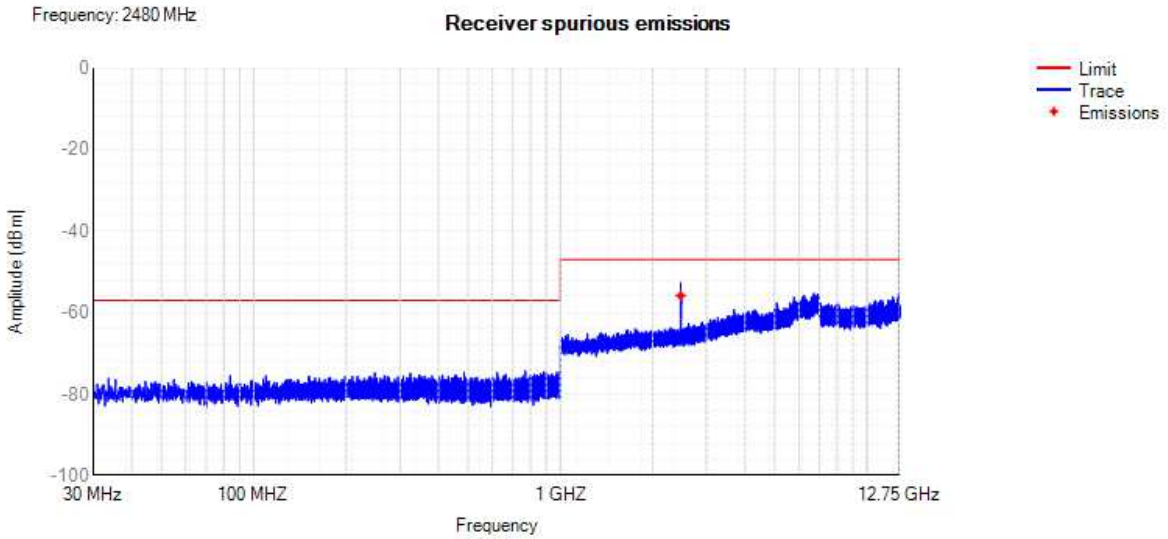
Rx. Spurious NVNT 3-DH5 2402MHz



Rx. Spurious NVNT 3-DH5 2441MHz



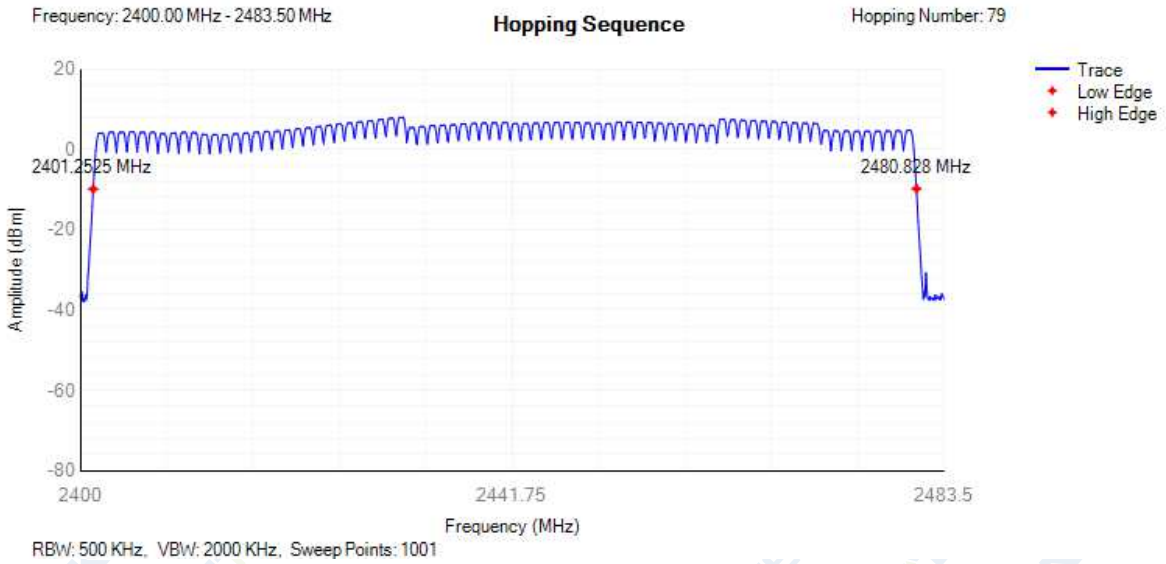
Rx. Spurious NVNT 3-DH5 2480MHz



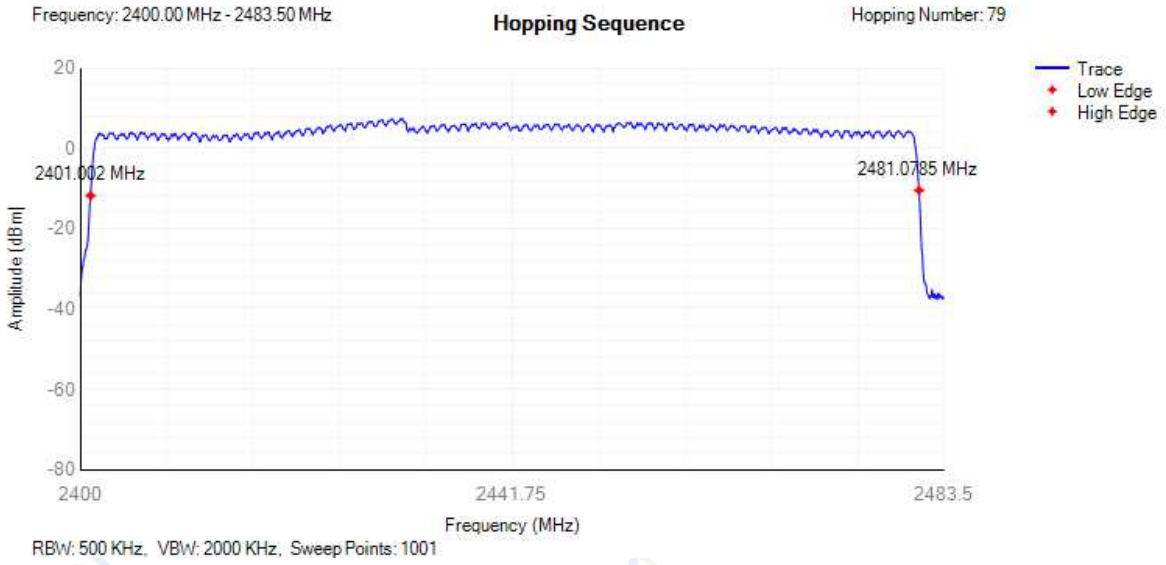
11.10 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.3	70	Pass
NVNT	2-DH5	79	15	95.9	70	Pass
NVNT	3-DH5	79	15	95.9	70	Pass

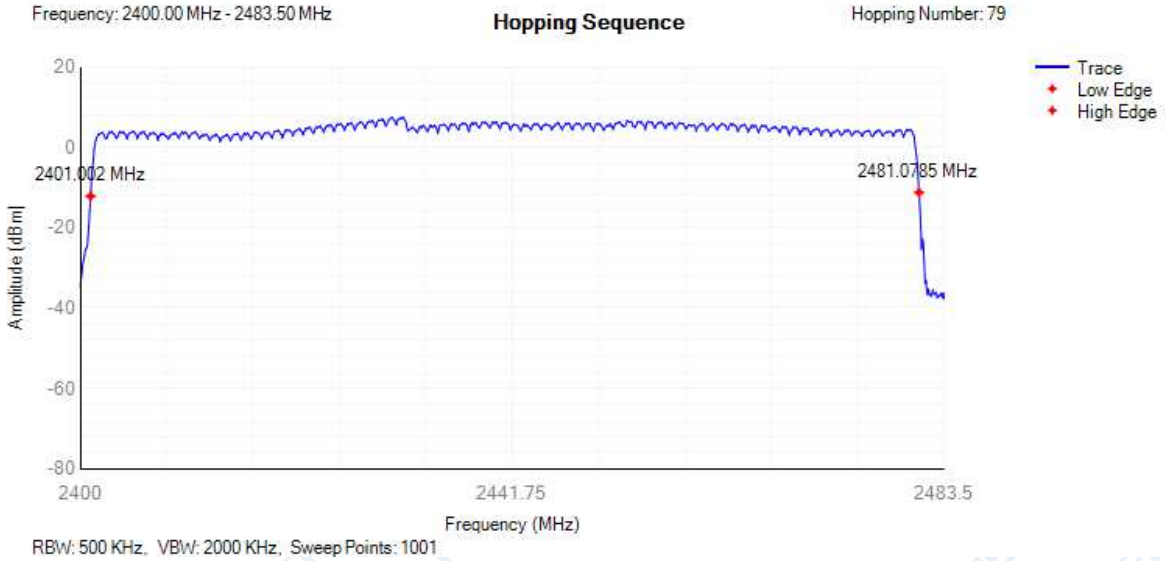
Hopping Seq. NVNT 1-DH5 2441MHz



Hopping Seq. NVNT 2-DH5 2441MHz

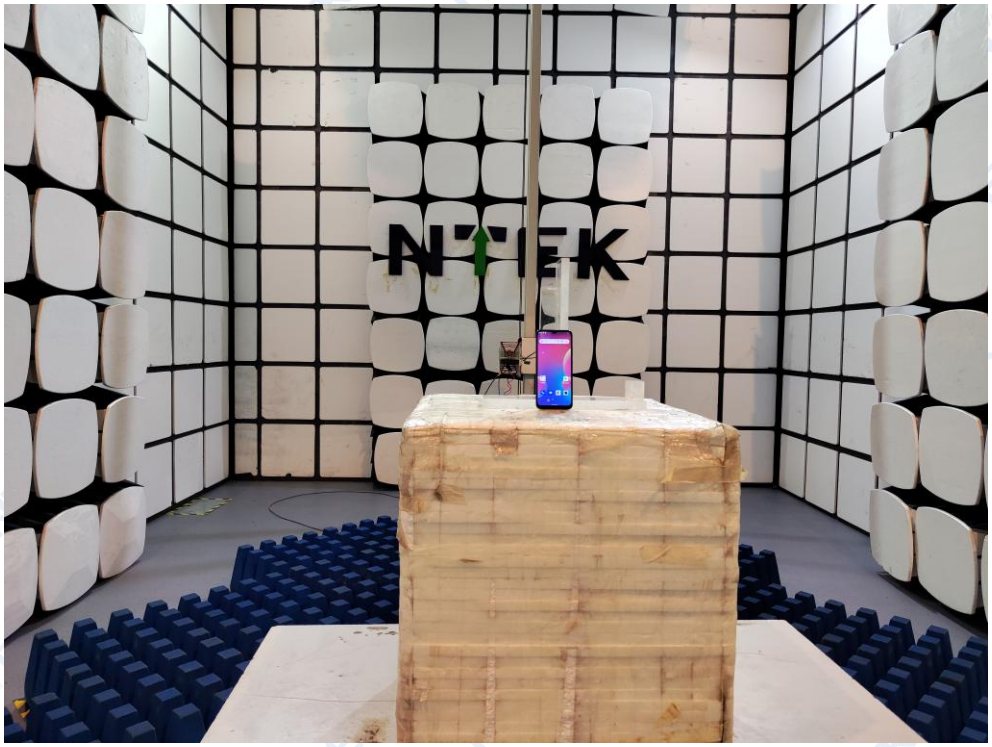


Hopping Seq. NVNT 3-DH5 2441MHz



12. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS



END OF REPORT