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

Product :	Smart Phone
Trade Mark :	OUKITEL
Model Name :	WP55
Family Model :	WP55 Pro, WP55 S, WP55 Plus, WP55 Ultra, WP55 TITAN, WP55 GT, WP55 E
Report No. :	S25022002901001

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address	:	202, Building A2, Silicon Valley Power Intelligent Terminal Industrial Park, No. 20, Dafu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen China
Manufacturer's Name	:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address	:	202, Building A2, Silicon Valley Power Intelligent Terminal Industrial Park, No. 20, Dafu Industrial Zone, Kukeng Community, Guanlan Street, Longhua District, Shenzhen China

Product description

Product name	:	Smart Phone
Trademark	:	OUKITEL
Model Name	:	WP55
Family Model	:	WP55 Pro, WP55 S, WP55 Plus, WP55 Ultra, WP55 TITAN, WP55 GT, WP55 E
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 S250220029002

Date of Test.....

Date (s) of performance of tests..... Feb. 20, 2025 ~ Mar. 28, 2025

Date of Issue..... Mar. 28, 2025

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

Prepared By	:	Joe Yan (Project Engineer)
Reviewed By	:	Aaron Cheng (Supervisor)
Approved By		Alex Li (Manager)

Table of Contents **Page**

Table of Contents **Page**

Table of Contents **Page**

Revision History

Report No.	Version	Description	Issued Date
S25022002901001	Rev.01	Initial issue of report	Mar. 28, 2025

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone
Trade Mark	OUKITEL
Model Name	WP55
Family Model	WP55 Pro, WP55 S, WP55 Plus, WP55 Ultra, WP55 TITAN, WP55 GT, WP55 E
Model Difference	All models are the same circuit and RF module, except for model names.
Product Description	The EUT is Smart Phone Operation Frequency: 2402~2480 MHz Modulation Type: GFSK, π/4-DQPSK, 8-DPSK Modulation Technology: FHSS Adaptive/non-adaptive: Adaptive equipment Receiver categories: 2 Number Of Channel: 79CH Antenna Designation: FPC antenna Antenna Gain(Peak): -0.13 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: HJ-PD33W-EU Input: 100-240V~50/60Hz 0.8A Output: 5.0V⎓3.0A OR 9.0V⎓3.0A OR 12.0V⎓2.75A 33.0W MAX
Battery	DC 3.87V, 11000mAh, 42.57Wh
Rating	DC 3.87V from battery or DC 5V/9V/12V from adapter
I/O Ports	Refer to users manual
Hardware Version	G3355V-MQ
Firmware Version	N/A
Software Version	OUKITEL_WP55_EEA_V06

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: 319.347ms 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)

  GFSK

- Hopping Frequency Separation (only for FHSS equipment)

  π/4-DQPSK

- Medium Utilization

  N/A

- Adaptivity

  N/A

- Receiver Blocking

  π/4-DQPSK

- Nominal Channel Bandwidth

  π/4-DQPSK

- Transmitter unwanted emissions in the OOB domain

  8-DPSK

- Transmitter unwanted emissions in the spurious domain

  GFSK

- Receiver spurious emissions

  π/4-DQPSK

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: 1.169MHz
- 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: -20℃ Maximum 55℃

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: FPC Antenna

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

Antenna Gain: -0.13 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	-0.13	8.71	
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 3.87V

In case of DC, indicate the type of power source

☐ Internal Power Supply

☒ External Power Supply or AC/DC adapter: DC 5V/9V/12V

☒ Battery: DC 3.87V

☐ 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):

π/4-DQPSK (CH78) =0.96%

1.3 TEST CONDITIONS

	Normal Test Conditions	Extreme Test Conditions
Temperature	15℃ - 35℃	-20℃ ~ 55℃ Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.87V	/

Note:

(1) The HT 55℃ and LT -20℃ was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

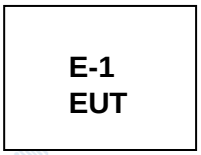
(2) The measurements are performed at the highest, middle, lowest available channels.

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	WP55	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	2024.04.26	2025.04.25	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	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	2024.05.12	2027.05.11	3 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 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	2024.04.26	2027.04.25	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2024.04.25	2025.04.24	1 year
Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
Attenuator	Weinschel	33-10-33	AR4010	2024.04.25	2027.04.24	3 year
Attenuator	Weinschel	24-20-34	BP4485	2024.04.25	2027.04.24	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2024.04.26	2025.04.25	1 year
Power Splitter	Mini-Circuits/ USA	ZN2PD-63-S+	SF025101428	2024.04.26	2027.04.25	3 year
Coupler	Mini-Circuits	ZADC-10-63-S +	SF794101410	2024.04.26	2027.04.25	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2024.04.26	2027.04.25	3 year
Attenuator	Agilent	8495B	MY42147029	2024.04.26	2027.04.25	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2024.04.25	2025.04.24	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2024.04.25	2025.04.24	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2024.05.30	2025.05.29	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

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. : No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China
FCC Registered No.: 463705 IC Registered No.:9270A
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

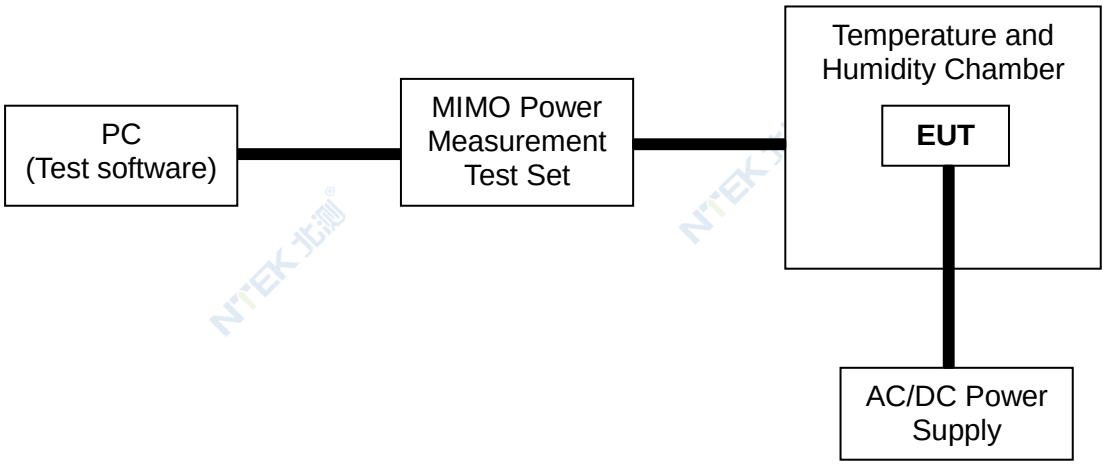
Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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 ：	WP55
Temperature：	20°C	Relative Humidity：	55 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.87V
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 ：	WP55
Temperature：	26°C	Relative Humidity	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.87V
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 ：	WP55
Temperature：	26°C	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.87V
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.

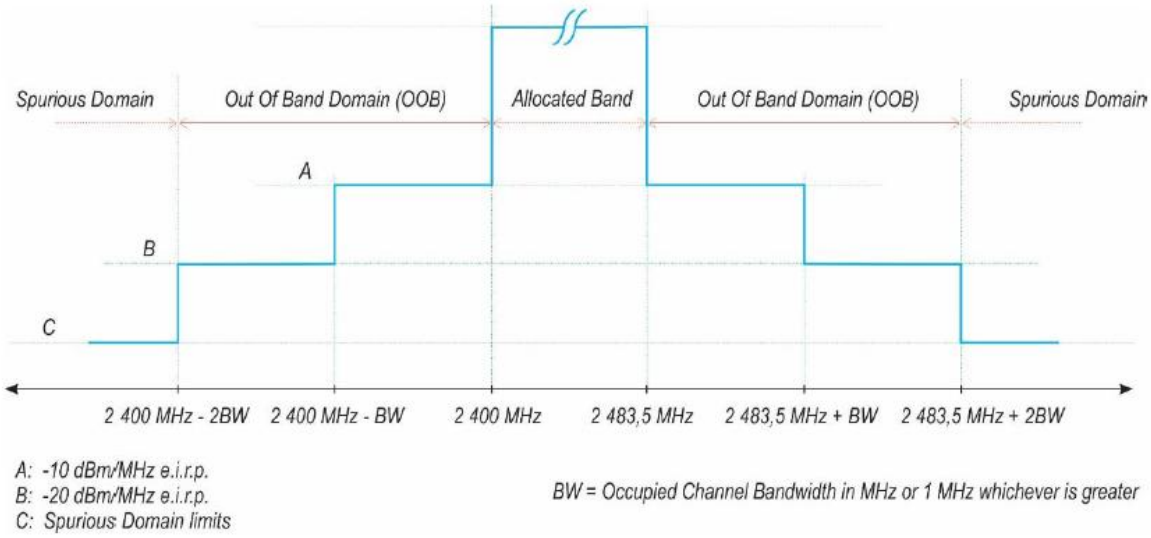


Figure 1: Transmit mask

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

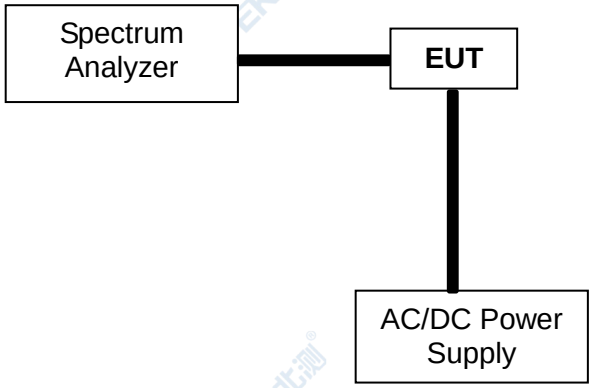
The setting of the Spectrum Analyzer

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 ETSI 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 ：	WP55
Temperature：	26°C	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.87V
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 ：	WP55
Temperature：	26°C	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	DC 3.87V
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

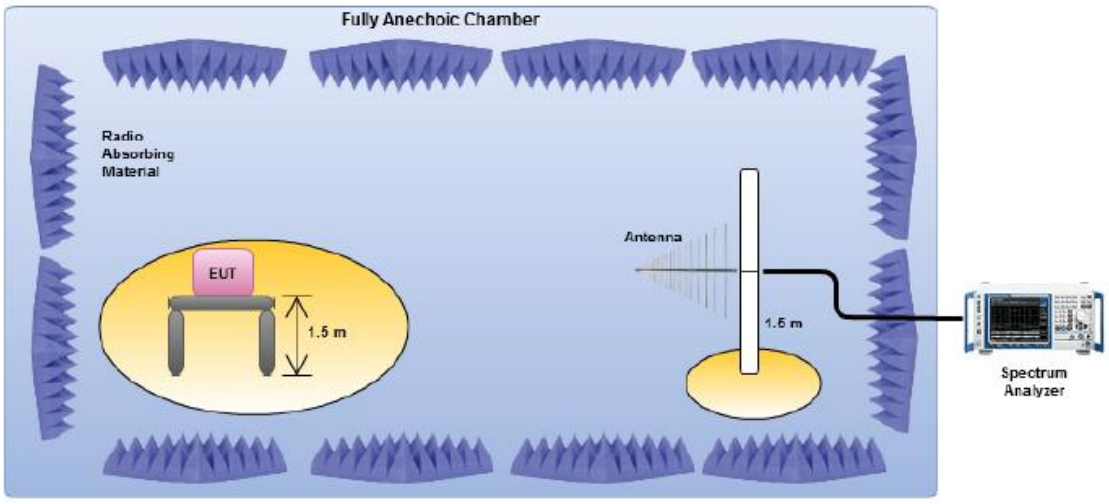
RBW	100K(＜1GHz) / 1M(＞1GHz)
VBW	300K(＜1GHz) / 3M(＞1GHz)

8.3 DEVIATION FROM TEST STANDARD

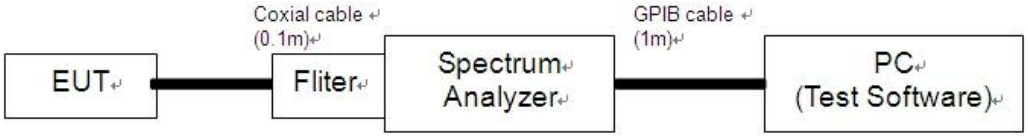
No deviation

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 :	WP55
Temperature :	24 ℃	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	BT-GFSK (CH00)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	38.747	-69.99	10.83	-59.17	-36	-23.17	peak
V	92.761	-70.21	11.30	-58.92	-54	-4.92	peak
V	219.360	-71.63	11.25	-60.37	-54	-6.37	peak
V	333.037	-70.35	11.23	-59.12	-36	-23.12	peak
V	606.771	-72.06	9.61	-62.44	-54	-8.44	peak
H	46.037	-71.90	10.54	-61.36	-36	-25.36	peak
H	114.378	-67.33	10.29	-57.04	-54	-3.04	peak
H	180.959	-68.95	10.83	-58.11	-54	-4.11	peak
H	308.968	-66.11	11.12	-54.99	-36	-18.99	peak
H	595.953	-70.86	11.03	-59.83	-54	-5.83	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 ：	WP55
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.87V
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	2015.374	-69.45	10.27	-59.18	-30	-29.18	peak
V	4675.484	-69.05	9.74	-59.30	-30	-29.30	peak
V	2558.760	-65.20	10.99	-54.21	-30	-24.21	peak
V	5839.617	-69.25	9.90	-59.35	-30	-29.35	peak
H	2179.294	-64.58	10.58	-54.00	-30	-24.00	peak
H	3578.486	-67.49	11.27	-56.21	-30	-26.21	peak
H	2256.033	-65.96	10.16	-55.81	-30	-25.81	peak
H	4139.266	-73.12	10.49	-62.63	-30	-32.63	peak
operation frequency:2441							
V	2932.098	-74.72	10.20	-64.52	-30	-34.52	peak
V	3049.358	-65.05	10.25	-54.80	-30	-24.80	peak
V	2640.371	-71.53	10.47	-61.05	-30	-31.05	peak
V	5816.081	-68.16	10.80	-57.36	-30	-27.36	peak
H	2690.530	-71.85	9.89	-61.96	-30	-31.96	peak
H	5767.252	-72.21	9.58	-62.64	-30	-32.64	peak
H	2898.074	-68.70	9.69	-59.00	-30	-29.00	peak
H	3211.701	-69.09	11.45	-57.64	-30	-27.64	peak
operation frequency:2480							
V	2150.583	-68.35	10.19	-58.16	-30	-28.16	peak
V	3224.813	-66.77	9.72	-57.05	-30	-27.05	peak
V	2172.979	-73.97	10.80	-63.17	-30	-33.17	peak
V	5992.559	-72.02	10.88	-61.14	-30	-31.14	peak
H	2847.402	-64.13	11.43	-52.70	-30	-22.70	peak
H	3680.690	-73.86	10.43	-63.43	-30	-33.43	peak
H	2412.405	-59.61	10.72	-48.89	-30	-18.89	peak
H	4720.695	-70.78	10.57	-60.21	-30	-30.21	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

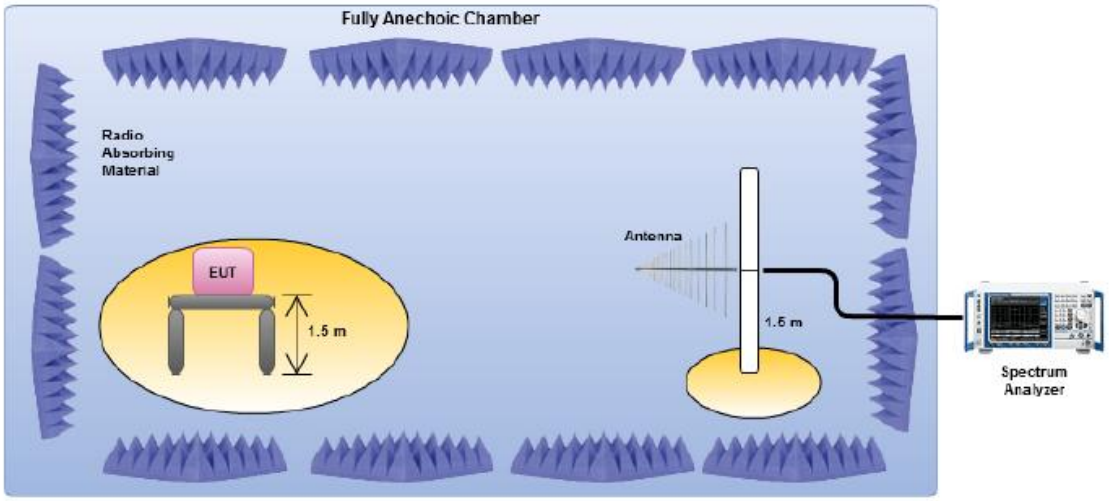
RBW	100K(＜1GHz) / 1M(＞1GHz)
VBW	300K(＜1GHz) / 3M(＞1GHz)

9.3 DEVIATION FROM TEST STANDARD

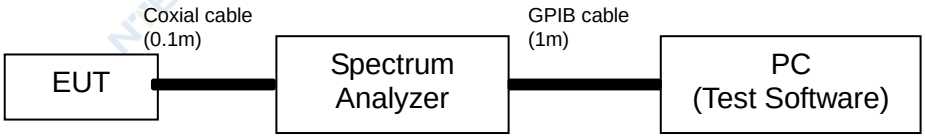
No deviation

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 ：	WP55
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.87V
Test Mode ：	GFSK(CH00)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	41.277	-81.02	12.26	-68.75	-57	-11.75	peak
V	109.511	-77.69	16.16	-61.53	-57	-4.53	peak
V	198.585	-75.00	14.16	-60.84	-57	-3.84	peak
V	289.762	-76.69	17.02	-59.67	-57	-2.67	peak
V	538.296	-81.59	15.54	-66.05	-57	-9.05	peak
H	38.595	-80.64	14.64	-66.00	-57	-9.00	peak
H	111.969	-81.35	17.97	-63.38	-57	-6.38	peak
H	119.384	-79.66	16.80	-62.86	-57	-5.86	peak
H	469.264	-75.88	15.88	-60.00	-57	-3.00	peak
H	586.561	-77.10	17.60	-59.51	-57	-2.51	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 ：	WP55
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.87V
Test Mode ：	GFSK (CH00)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
V	2825.495	-80.39	10.53	-69.86	-47	-22.86	peak
V	4975.869	-76.71	10.30	-66.41	-47	-19.41	peak
V	2125.803	-75.49	10.63	-64.86	-47	-17.86	peak
V	4767.581	-73.36	16.93	-56.43	-47	-9.43	peak
H	2500.047	-76.81	10.36	-66.45	-47	-19.45	peak
H	5090.407	-79.16	11.37	-67.79	-47	-20.79	peak
H	2176.201	-74.19	6.88	-67.31	-47	-20.31	peak
H	5053.143	-75.39	15.08	-60.32	-47	-13.32	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

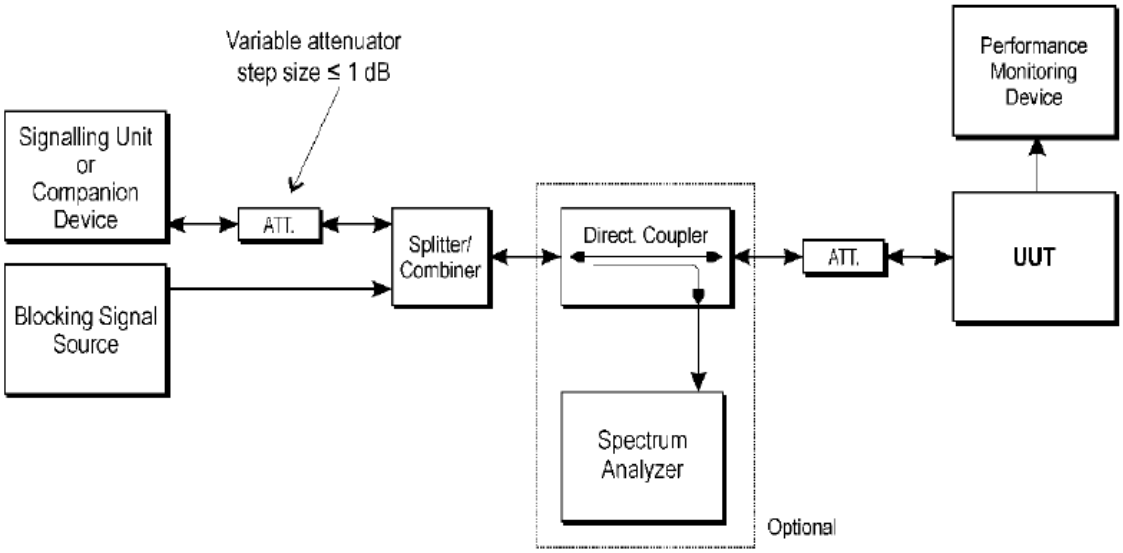
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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 ：	WP55
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.87V
Test Mode ：	GFSK Hopping mode (RX)		

CH00

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-70.17	2 380	-34	0.34%	≤10%
	2 504		0.76%	
	2 300		0.13%	≤10%
	2 584		0.66%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-70.17	2 380	-34	0.89%	≤10%
	2 504		0.15%	
	2 300		0.74%	≤10%
	2 584		0.36%	

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

EUT：	Smart Phone	Model Name ：	WP55
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.87V
Test Mode ：	π/4-DQPSK Hopping mode (RX)		

CH00

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68.32	2 380	-34	0.68%	≤10%
	2 504		0.04%	
	2 300		0.24%	≤10%
	2 584		0.50%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68.33	2 380	-34	0.96%	≤10%
	2 504		0.69%	
	2 300		0.25%	≤10%
	2 584		0.30%	

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

EUT：	Smart Phone	Model Name ：	WP55
Temperature：	24 ℃	Relative Humidity	54%
Pressure：	1010 hPa	Test Power ：	DC 3.87V
Test Mode ：	8-DPSK Hopping mode (RX)		

CH00

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68.32	2 380	-34	0.59%	≤10%
	2 504		0.39%	
	2 300		0.26%	≤10%
	2 584		0.21%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68.33	2 380	-34	0.23%	≤10%
	2 504		0.19%	
	2 300		0.35%	≤10%
	2 584		0.64%	

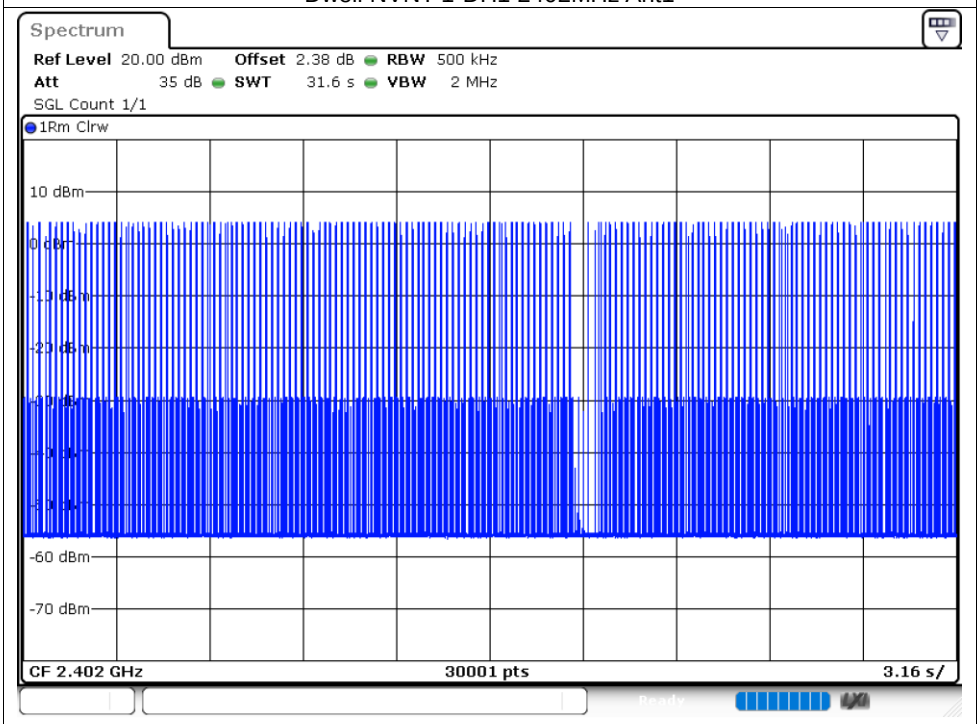
Note: (1) The above results were obtained from laboratory tests.

11. TEST RESULTS

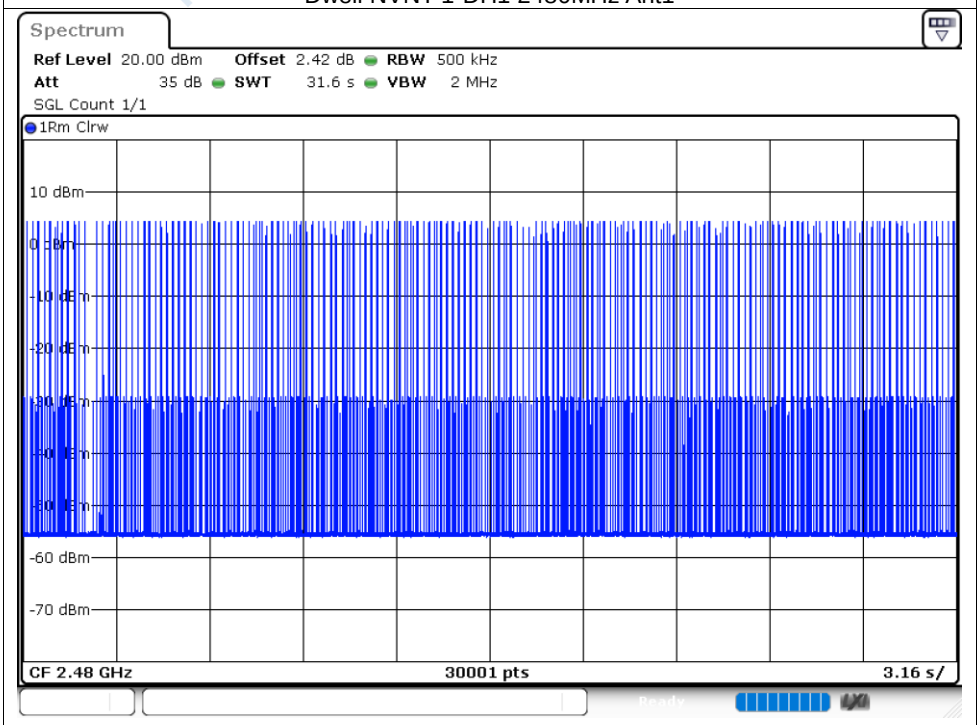
11.1 Accumulated Transmit Time

Condition	Mode	Frequency (MHz)	Antenna	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH1	2402	Ant1	116.625	400	31600	311	Pass
NVNT	1-DH1	2480	Ant1	117.75	400	31600	314	Pass
NVNT	1-DH3	2402	Ant1	262.591	400	31600	161	Pass
NVNT	1-DH3	2480	Ant1	270.746	400	31600	166	Pass
NVNT	1-DH5	2402	Ant1	308.053	400	31600	107	Pass
NVNT	1-DH5	2480	Ant1	319.347	400	31600	111	Pass
NVNT	2-DH1	2402	Ant1	119.496	400	31600	312	Pass
NVNT	2-DH1	2480	Ant1	120.262	400	31600	314	Pass
NVNT	2-DH3	2402	Ant1	235.008	400	31600	144	Pass
NVNT	2-DH3	2480	Ant1	253.27	400	31600	155	Pass
NVNT	2-DH5	2402	Ant1	316.91	400	31600	110	Pass
NVNT	2-DH5	2480	Ant1	305.492	400	31600	106	Pass
NVNT	3-DH1	2402	Ant1	117.656	400	31600	308	Pass
NVNT	3-DH1	2480	Ant1	120.33	400	31600	315	Pass
NVNT	3-DH3	2402	Ant1	267.976	400	31600	164	Pass
NVNT	3-DH3	2480	Ant1	271.078	400	31600	166	Pass
NVNT	3-DH5	2402	Ant1	265.42	400	31600	92	Pass
NVNT	3-DH5	2480	Ant1	262.535	400	31600	91	Pass

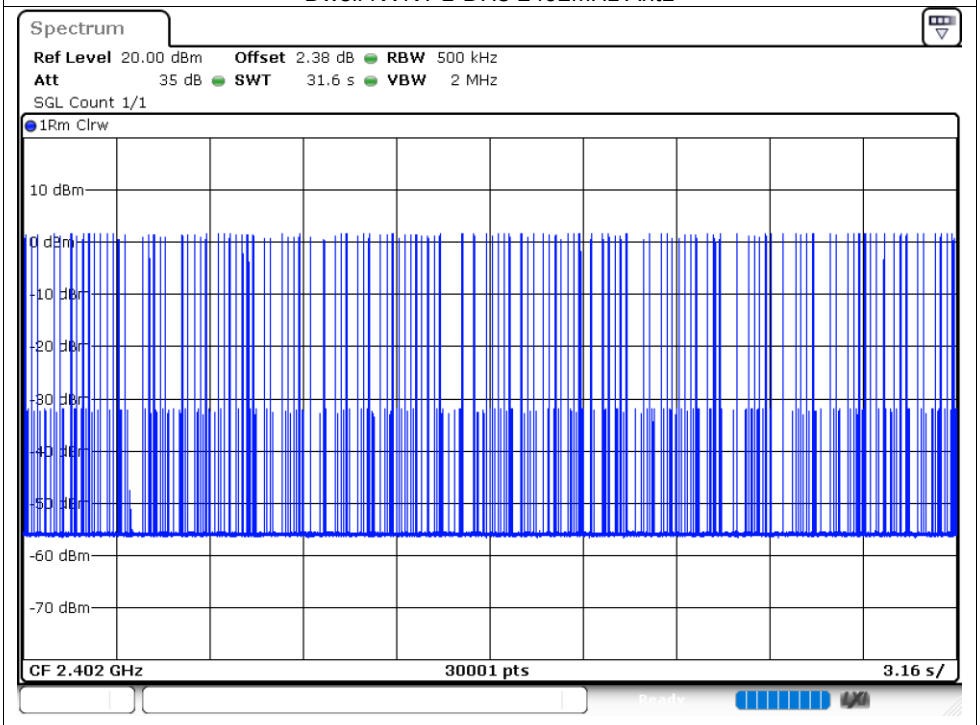
Test Graphs
Dwell NVNT 1-DH1 2402MHz Ant1



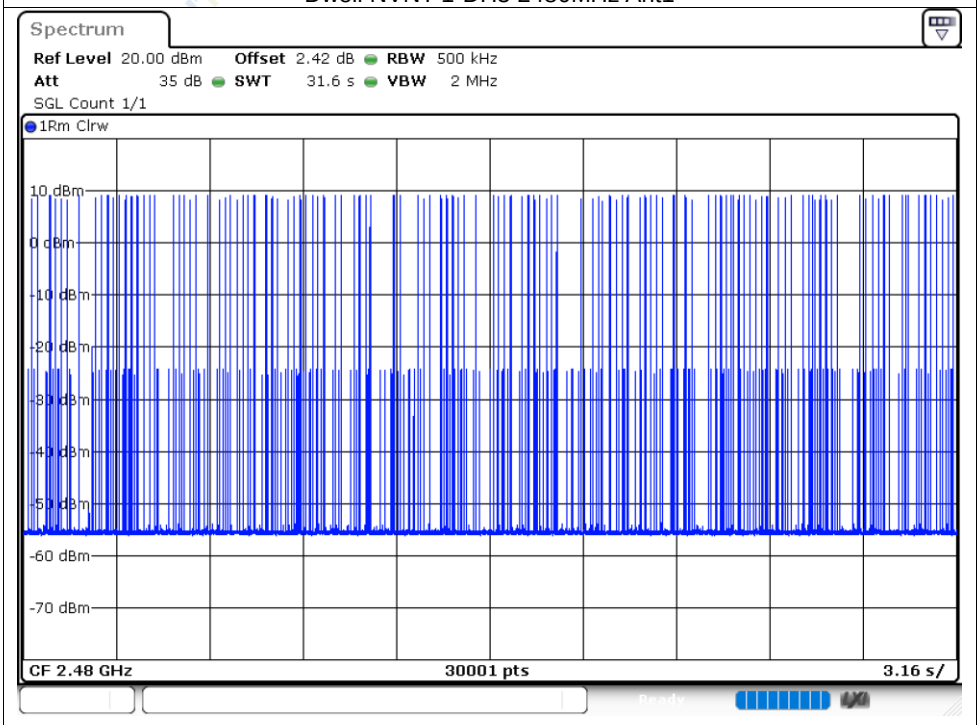
Dwell NVNT 1-DH1 2480MHz Ant1



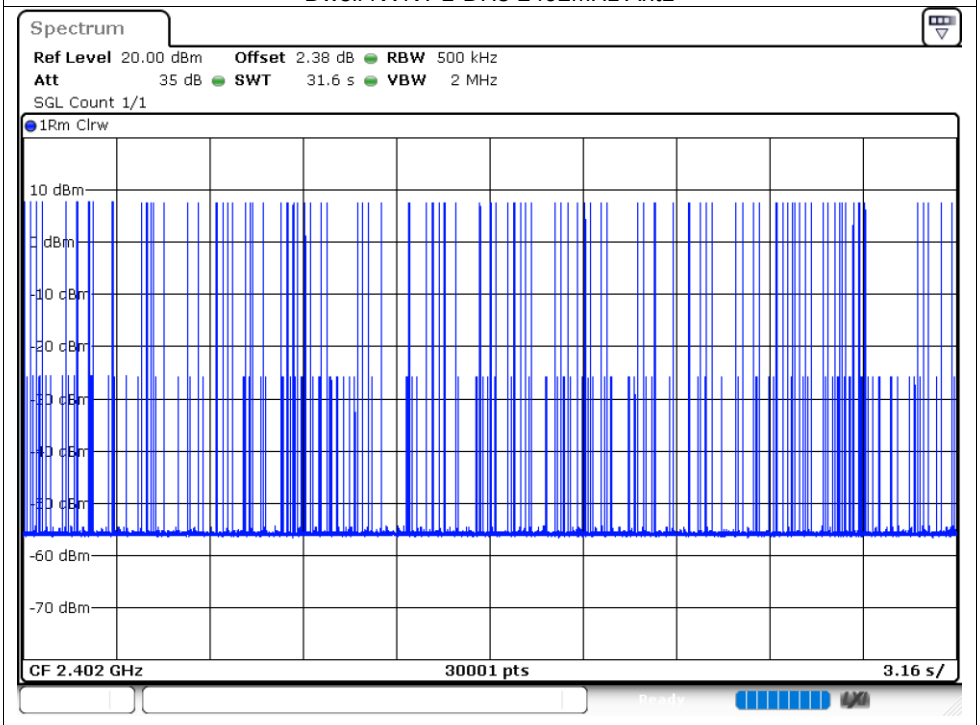
Dwell NVNT 1-DH3 2402MHz Ant1



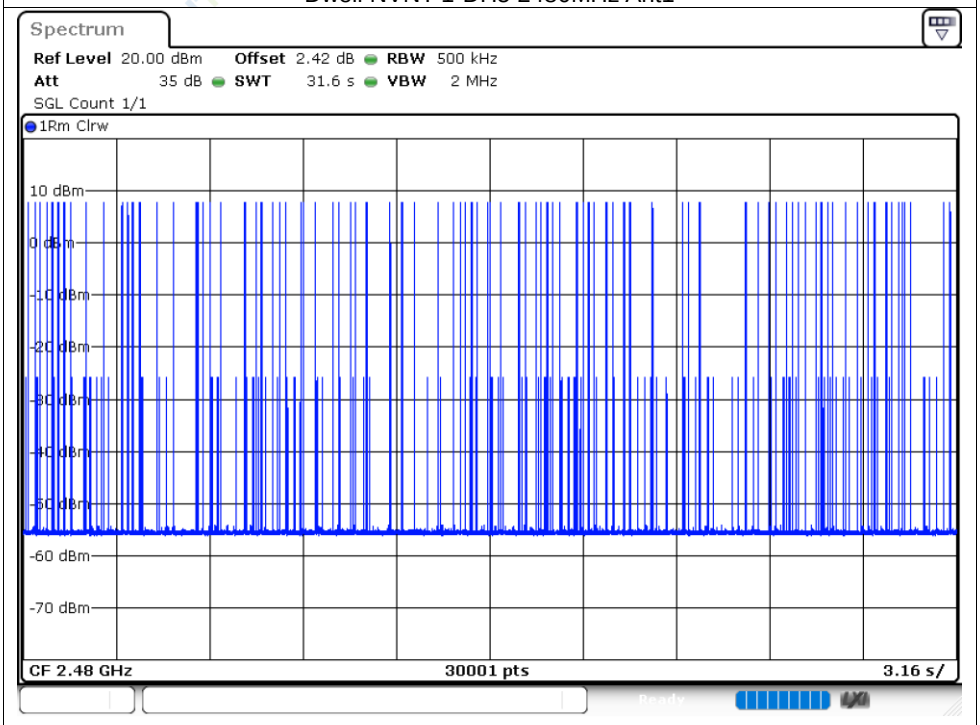
Dwell NVNT 1-DH3 2480MHz Ant1



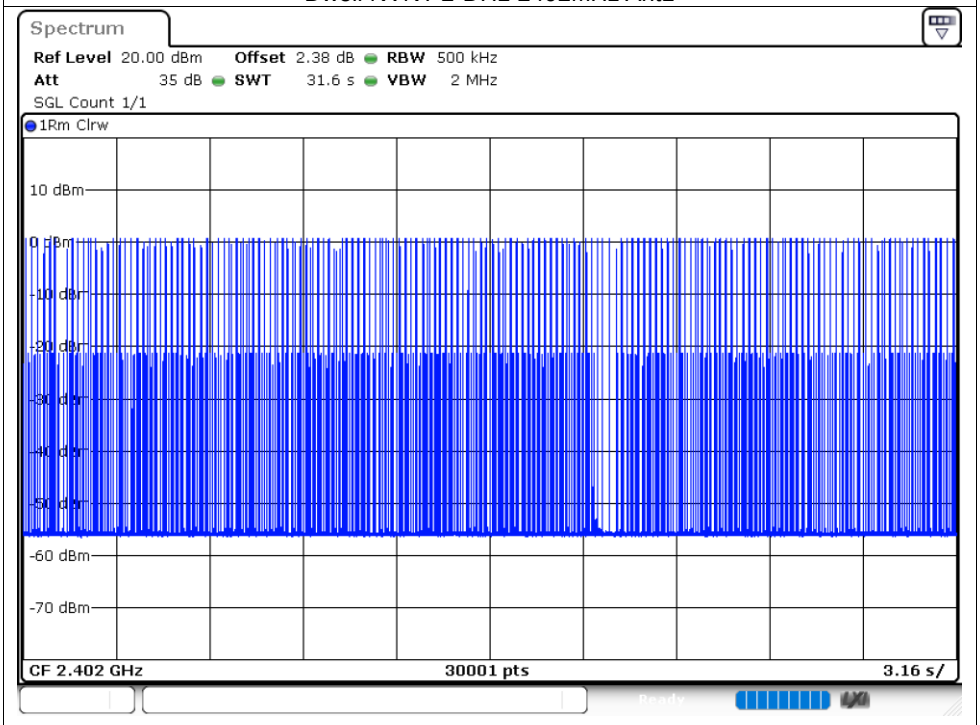
Dwell NVNT 1-DH5 2402MHz Ant1



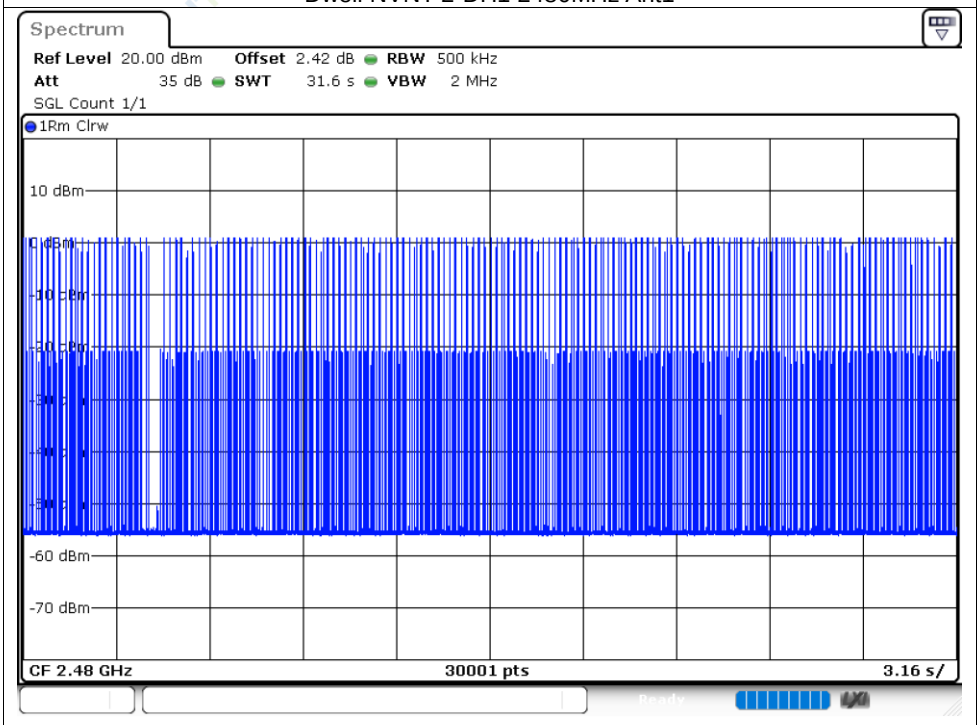
Dwell NVNT 1-DH5 2480MHz Ant1



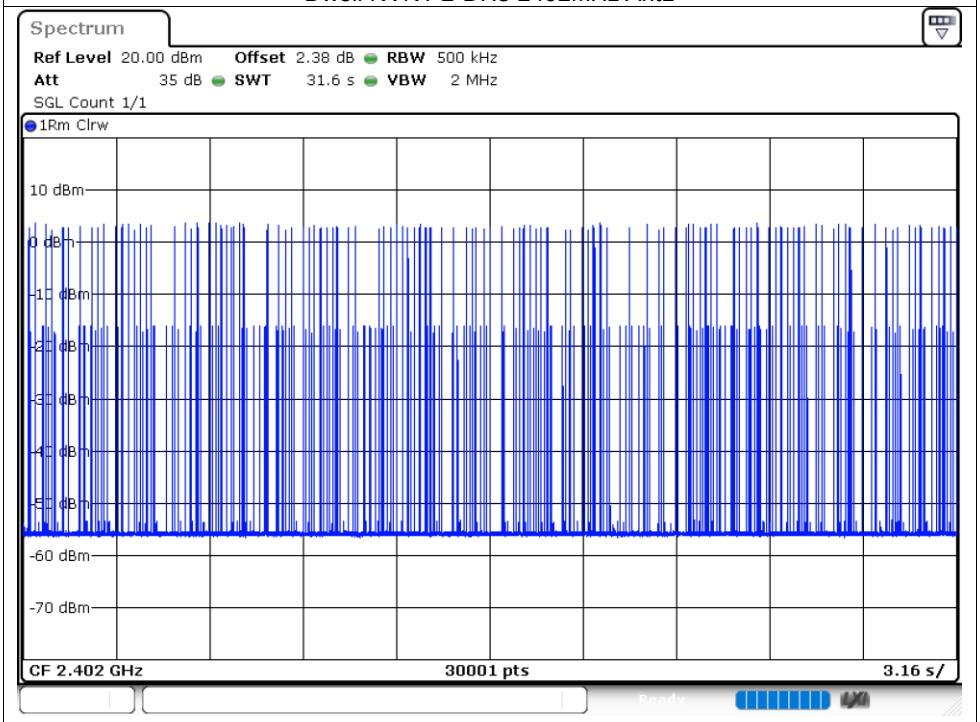
Dwell NVNT 2-DH1 2402MHz Ant1



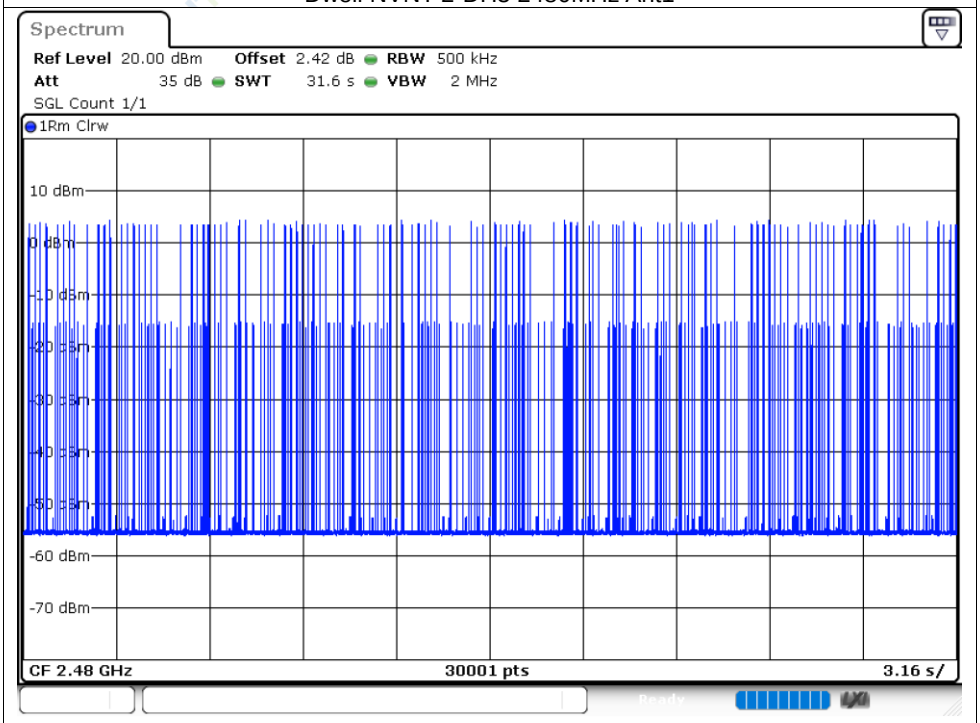
Dwell NVNT 2-DH1 2480MHz Ant1



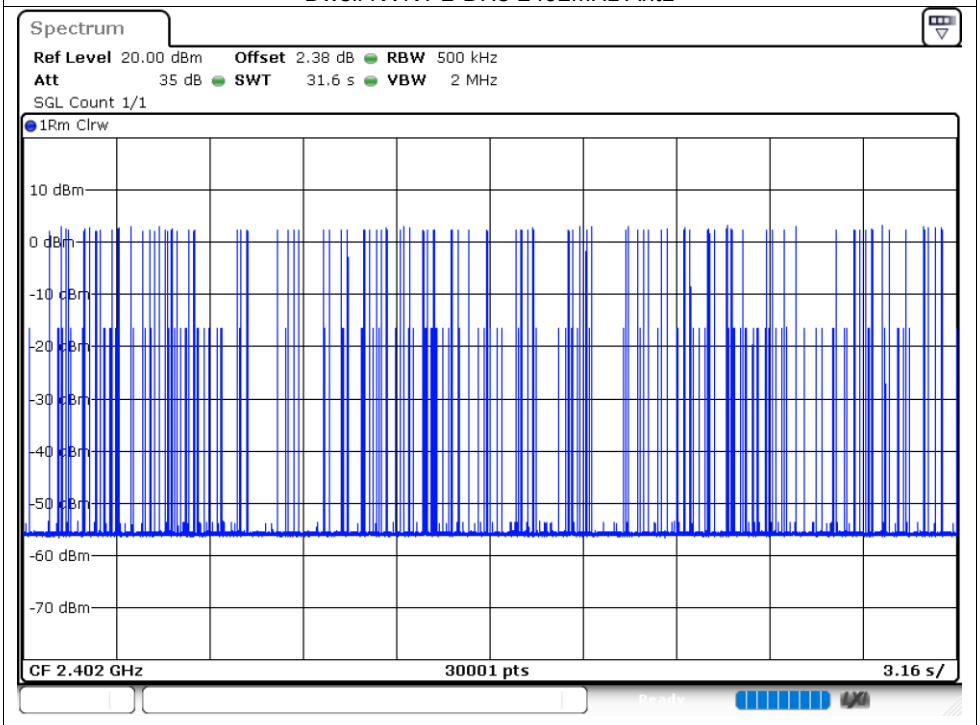
Dwell NVNT 2-DH3 2402MHz Ant1



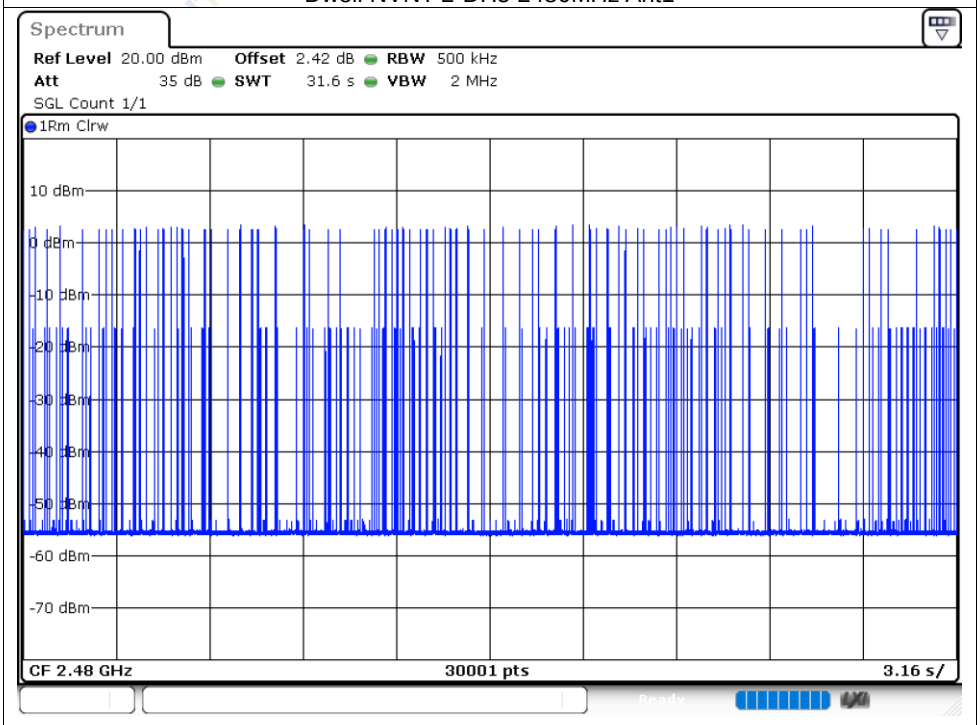
Dwell NVNT 2-DH3 2480MHz Ant1



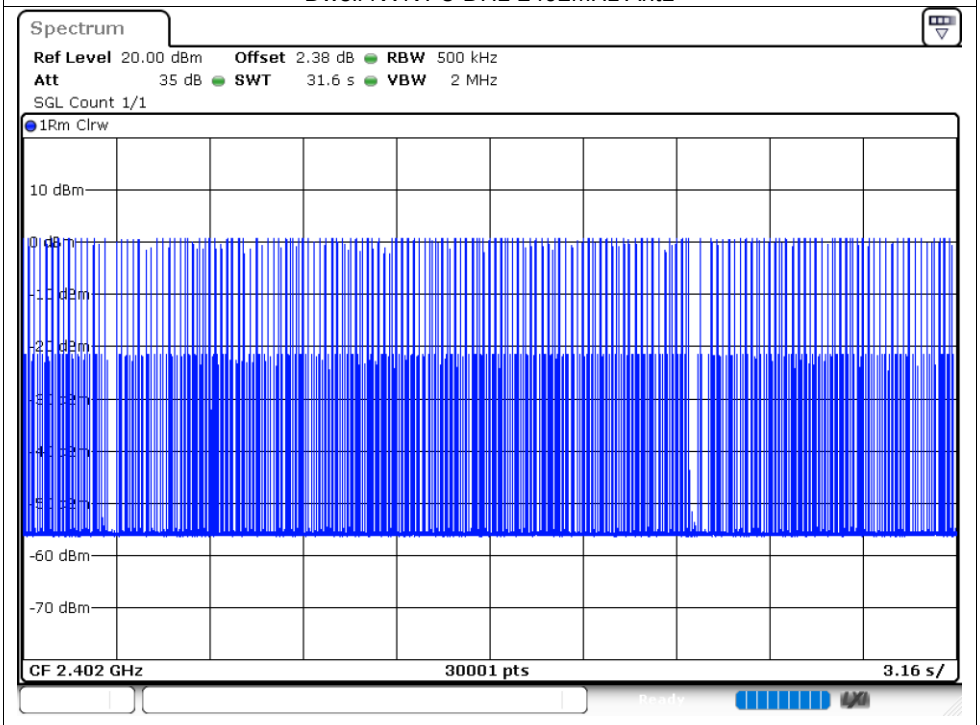
Dwell NVNT 2-DH5 2402MHz Ant1



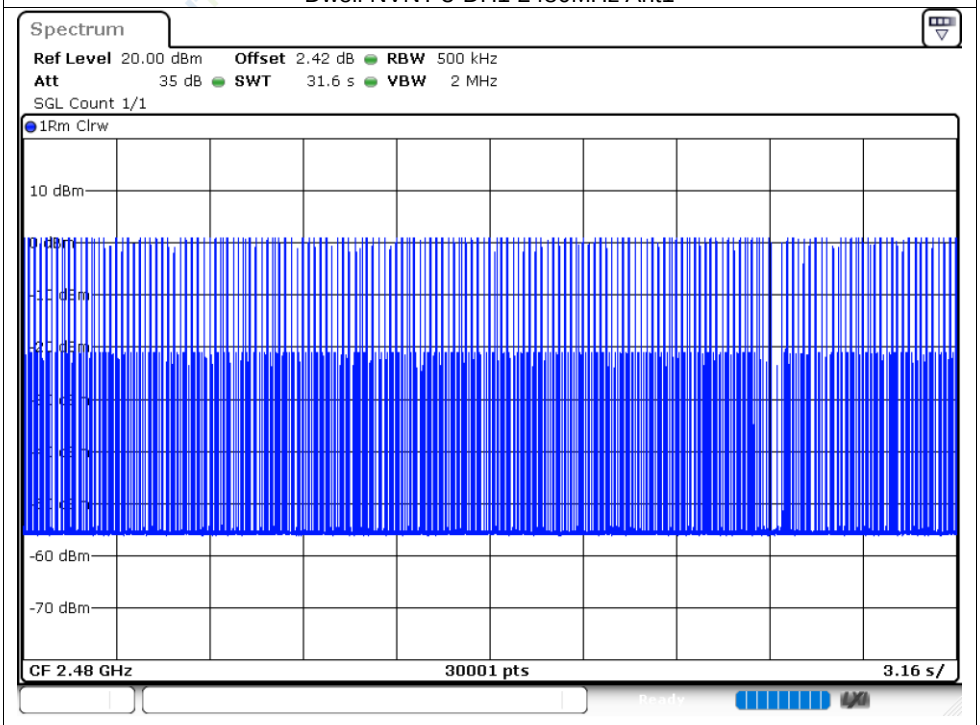
Dwell NVNT 2-DH5 2480MHz Ant1



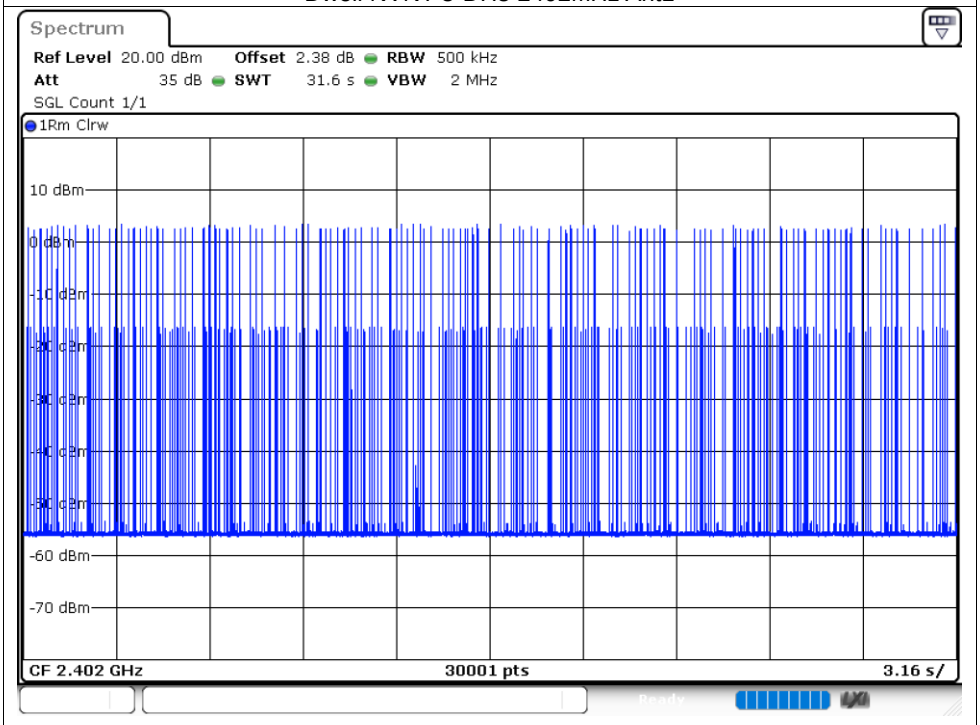
Dwell NVNT 3-DH1 2402MHz Ant1



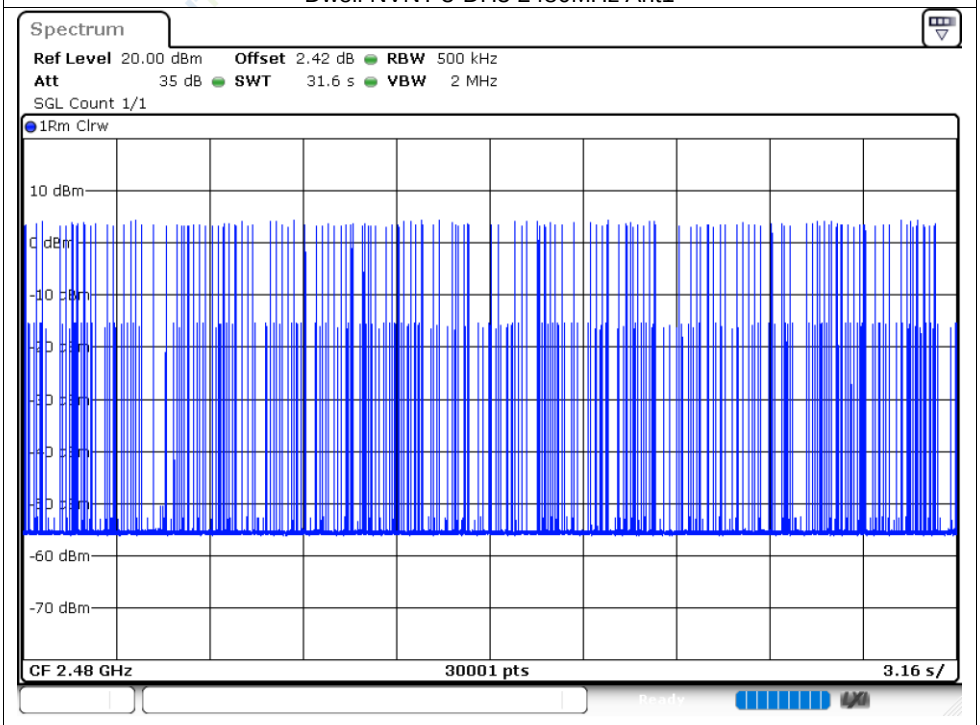
Dwell NVNT 3-DH1 2480MHz Ant1



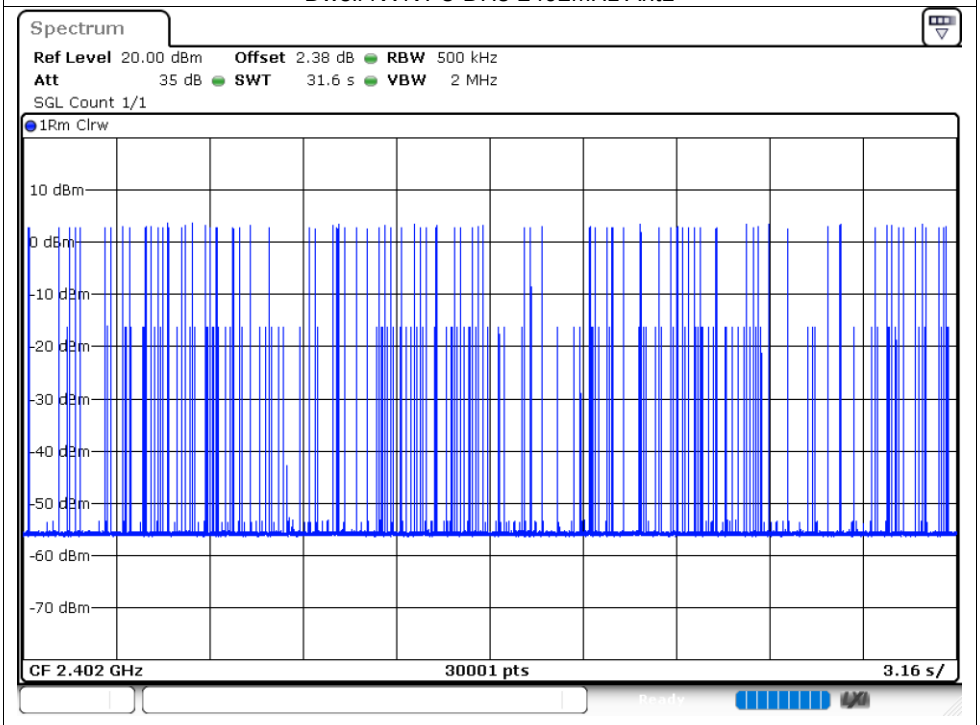
Dwell NVNT 3-DH3 2402MHz Ant1



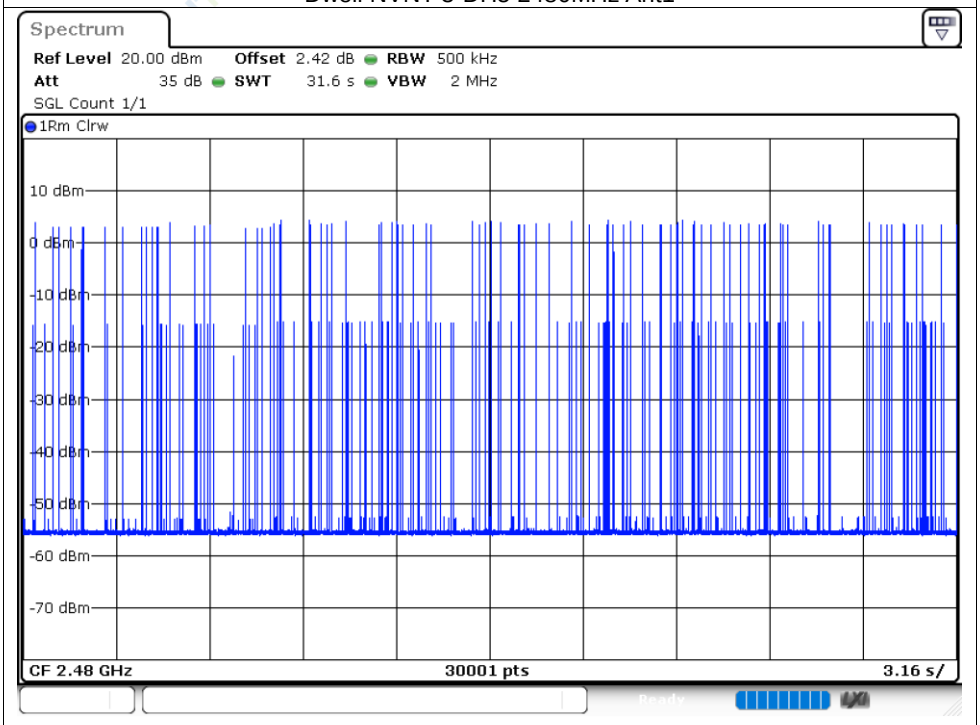
Dwell NVNT 3-DH3 2480MHz Ant1



Dwell NVNT 3-DH5 2402MHz Ant1



Dwell NVNT 3-DH5 2480MHz Ant1

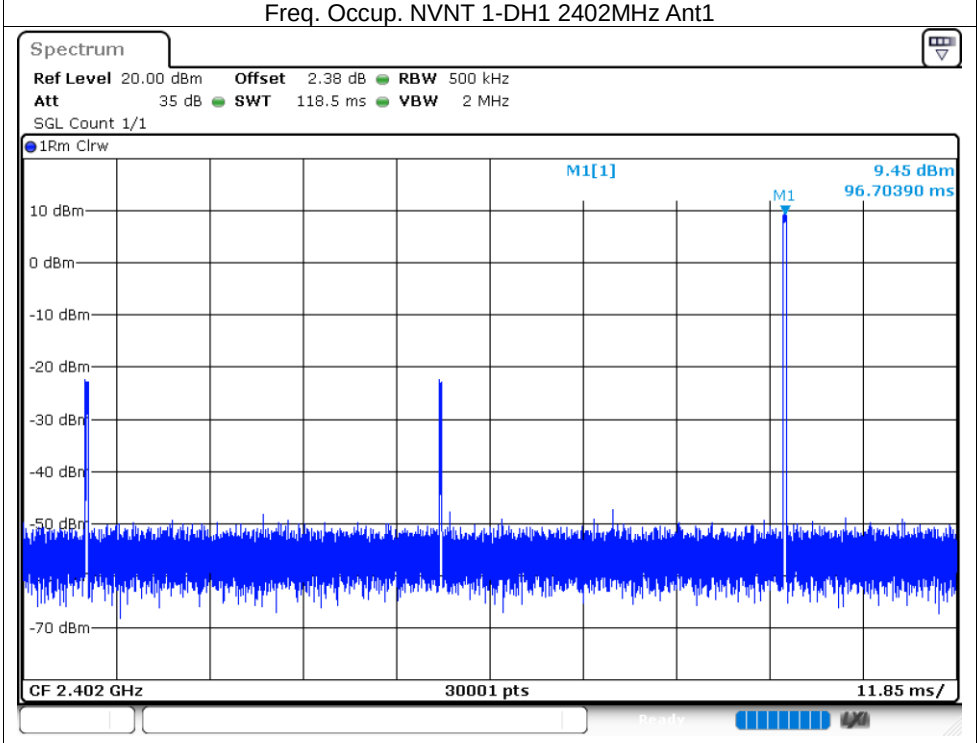


11.2 Frequency Occupation

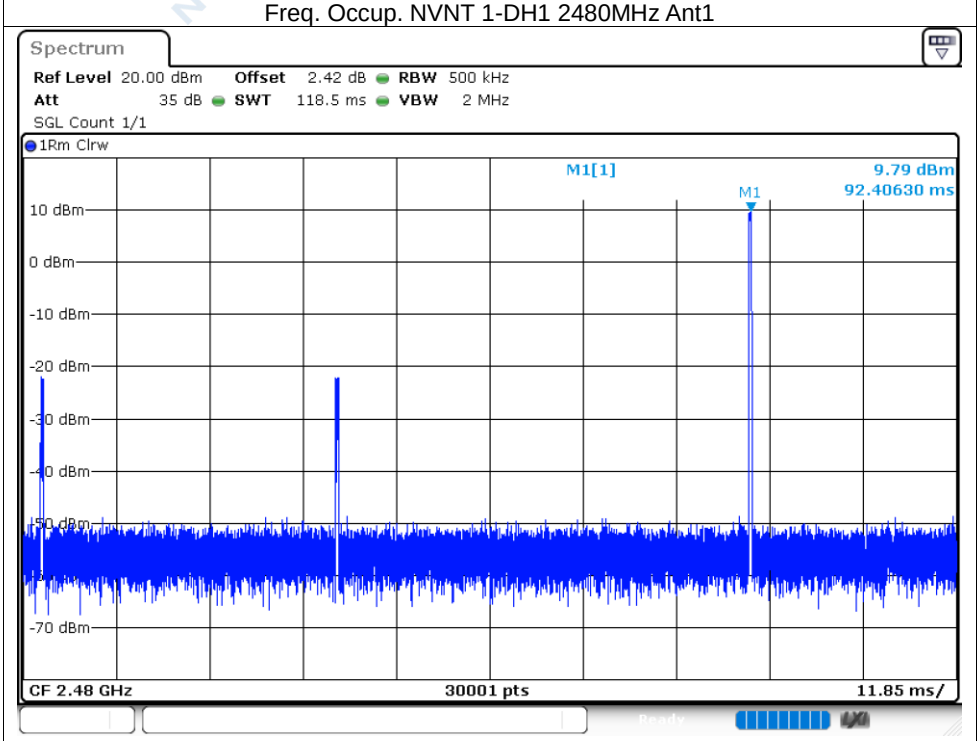
Condition	Mode	Frequency (MHz)	Antenna	Burst Number	Limit	Sweep Time (ms)	Verdict
NVNT	1-DH1	2402	Ant1	1	1	118.5	Pass
NVNT	1-DH1	2480	Ant1	1	1	118.5	Pass
NVNT	1-DH3	2402	Ant1	5	1	515.396	Pass
NVNT	1-DH3	2480	Ant1	4	1	515.396	Pass
NVNT	1-DH5	2402	Ant1	4	1	909.764	Pass
NVNT	1-DH5	2480	Ant1	4	1	909.132	Pass
NVNT	2-DH1	2402	Ant1	2	1	121.028	Pass
NVNT	2-DH1	2480	Ant1	2	1	121.028	Pass
NVNT	2-DH3	2402	Ant1	2	1	515.712	Pass
NVNT	2-DH3	2480	Ant1	3	1	516.344	Pass
NVNT	2-DH5	2402	Ant1	1	1	910.396	Pass
NVNT	2-DH5	2480	Ant1	5	1	910.712	Pass
NVNT	3-DH1	2402	Ant1	2	1	120.712	Pass
NVNT	3-DH1	2480	Ant1	2	1	120.712	Pass
NVNT	3-DH3	2402	Ant1	2	1	516.344	Pass
NVNT	3-DH3	2480	Ant1	1	1	516.028	Pass
NVNT	3-DH5	2402	Ant1	2	1	911.66	Pass
NVNT	3-DH5	2480	Ant1	4	1	911.66	Pass

Test Graphs

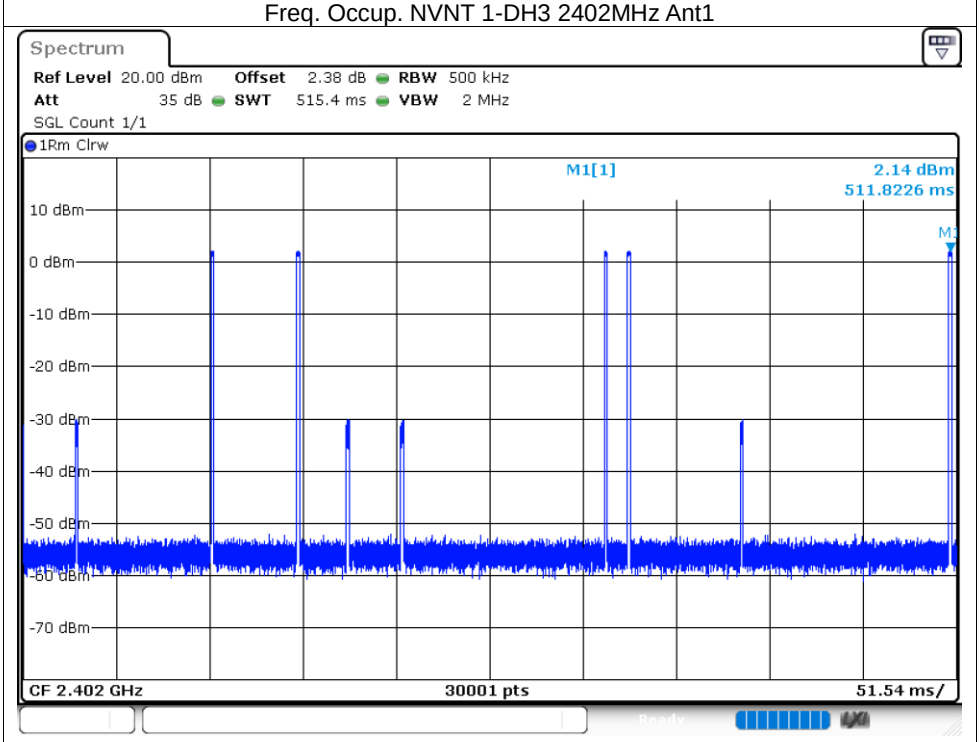
Freq. Occup. NVNT 1-DH1 2402MHz Ant1



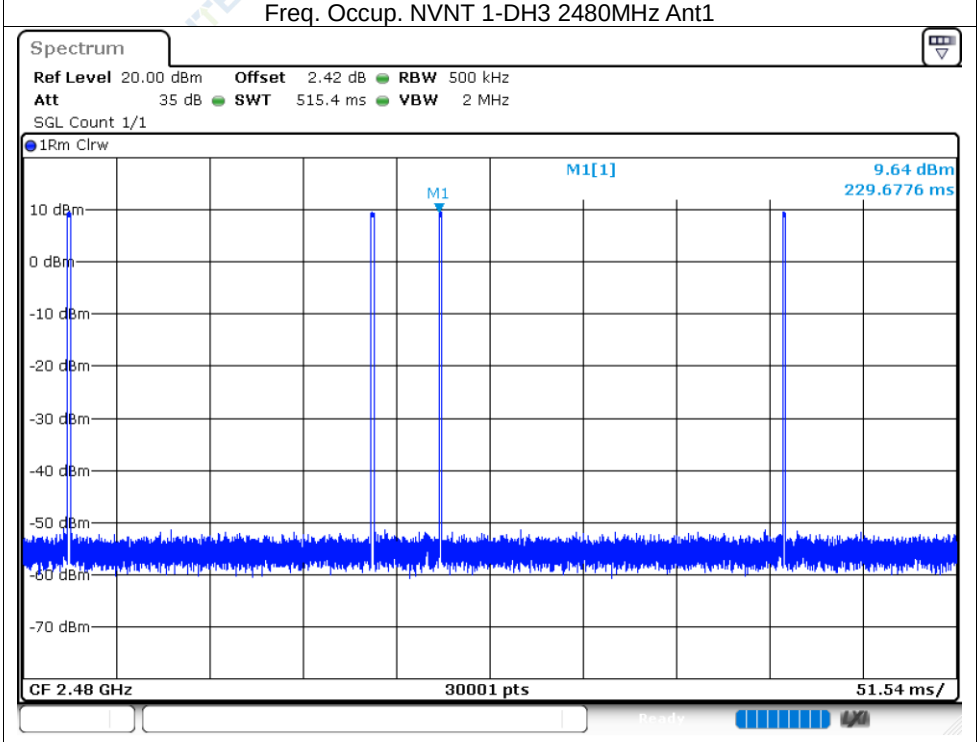
Freq. Occup. NVNT 1-DH1 2480MHz Ant1



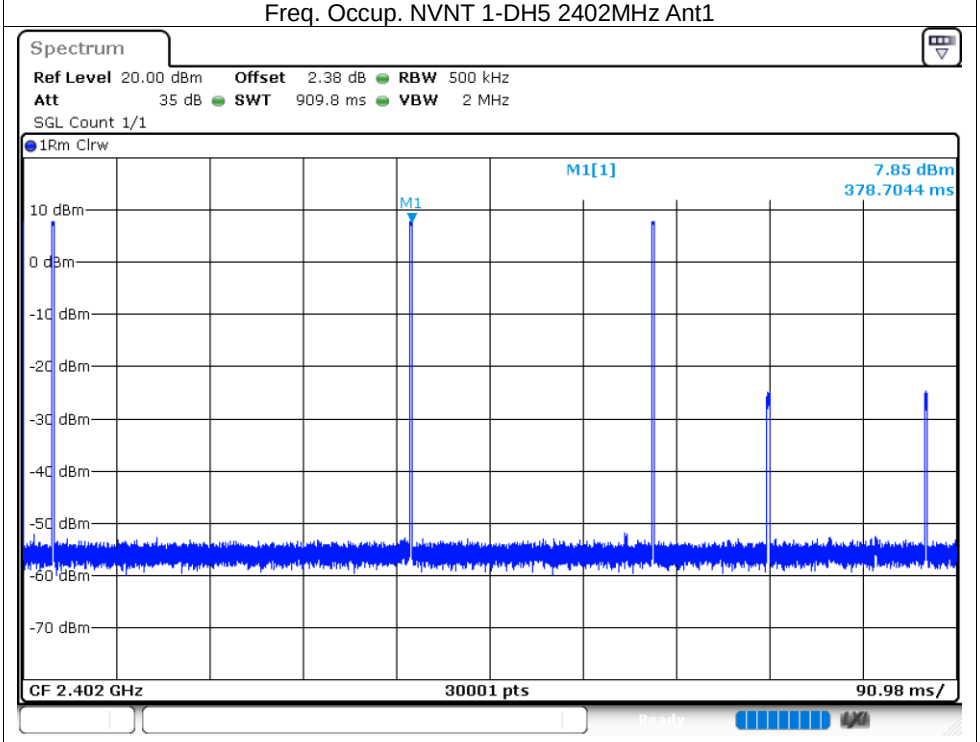
Freq. Occup. NVNT 1-DH3 2402MHz Ant1



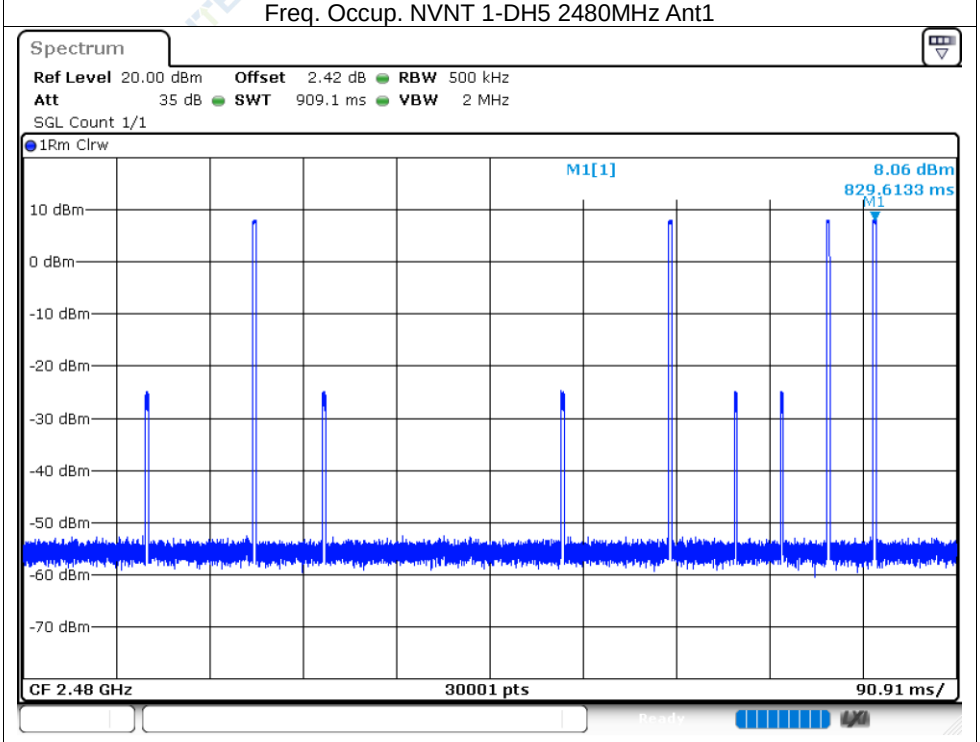
Freq. Occup. NVNT 1-DH3 2480MHz Ant1



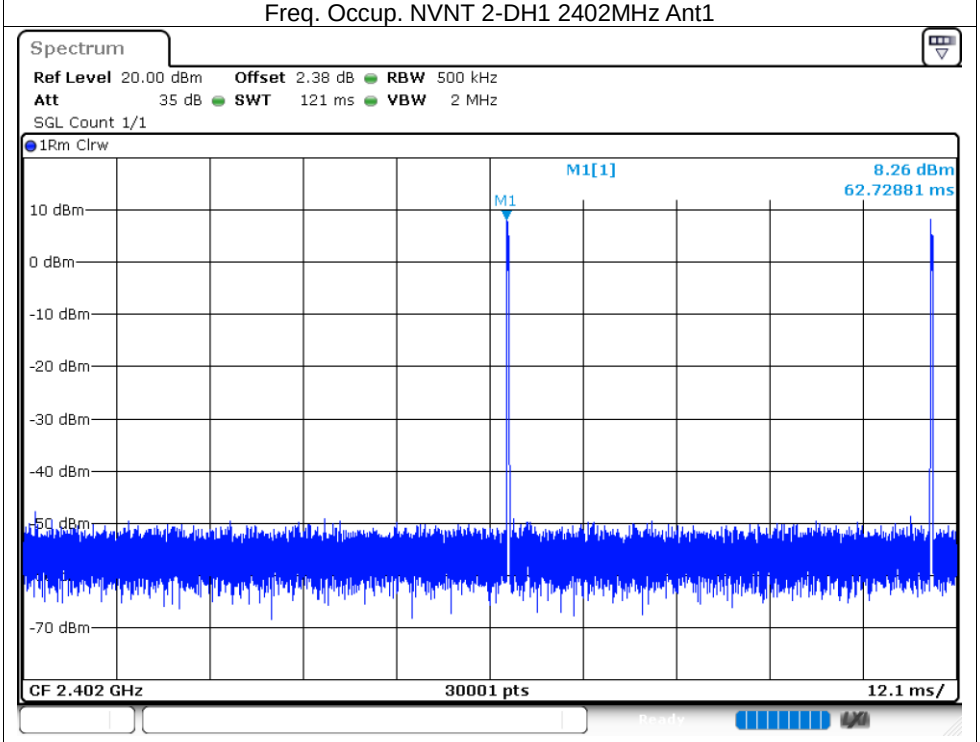
Freq. Occup. NVNT 1-DH5 2402MHz Ant1



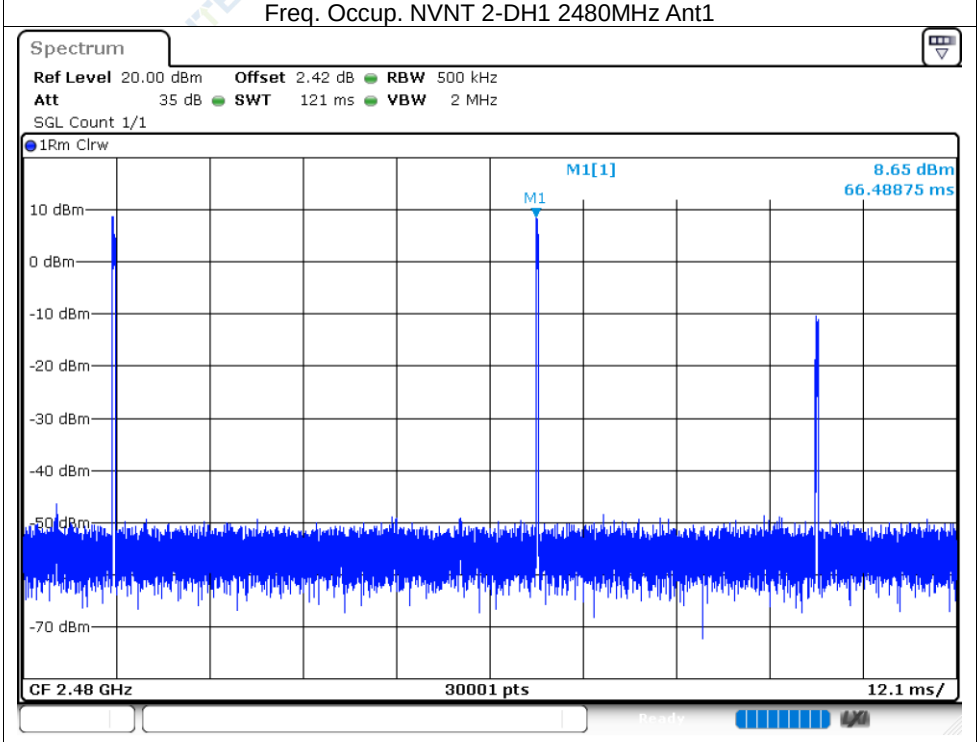
Freq. Occup. NVNT 1-DH5 2480MHz Ant1



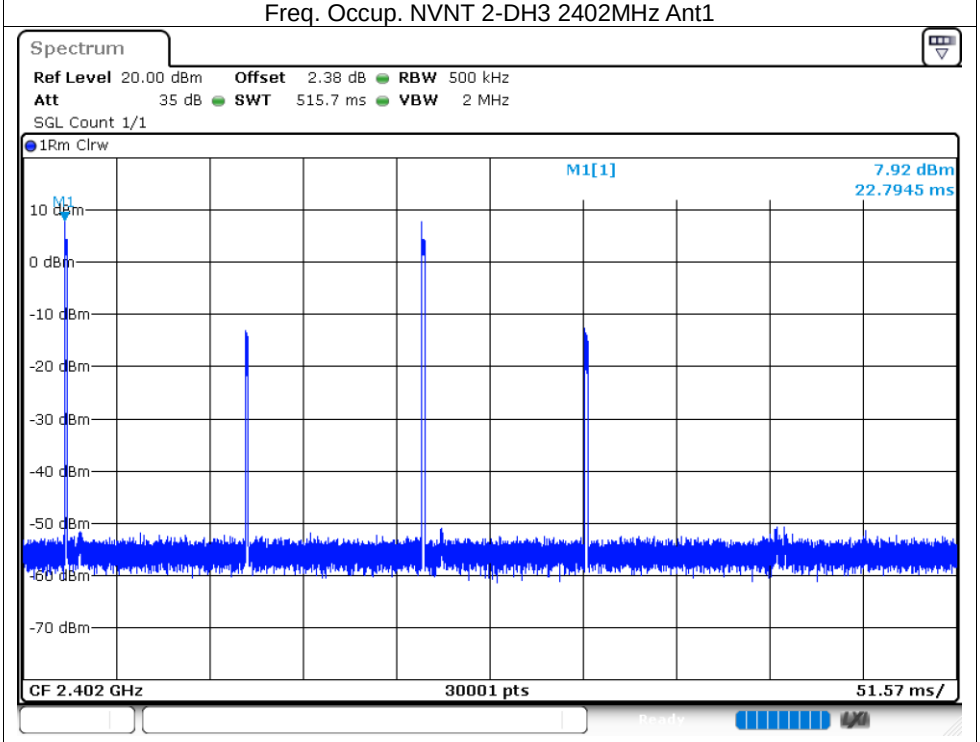
Freq. Occup. NVNT 2-DH1 2402MHz Ant1



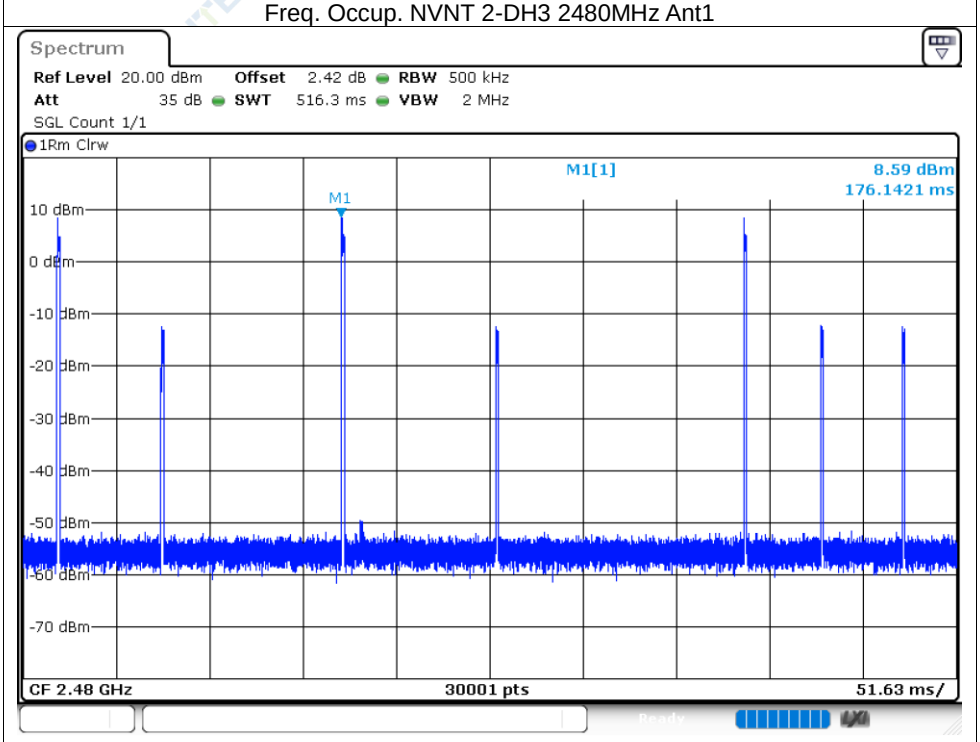
Freq. Occup. NVNT 2-DH1 2480MHz Ant1



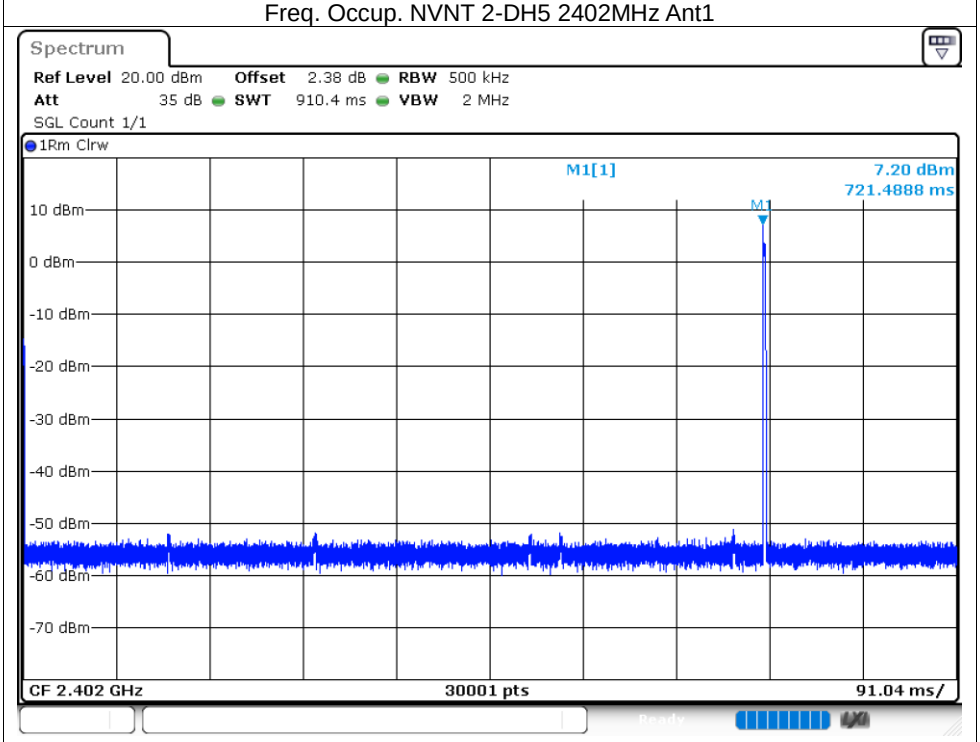
Freq. Occup. NVNT 2-DH3 2402MHz Ant1



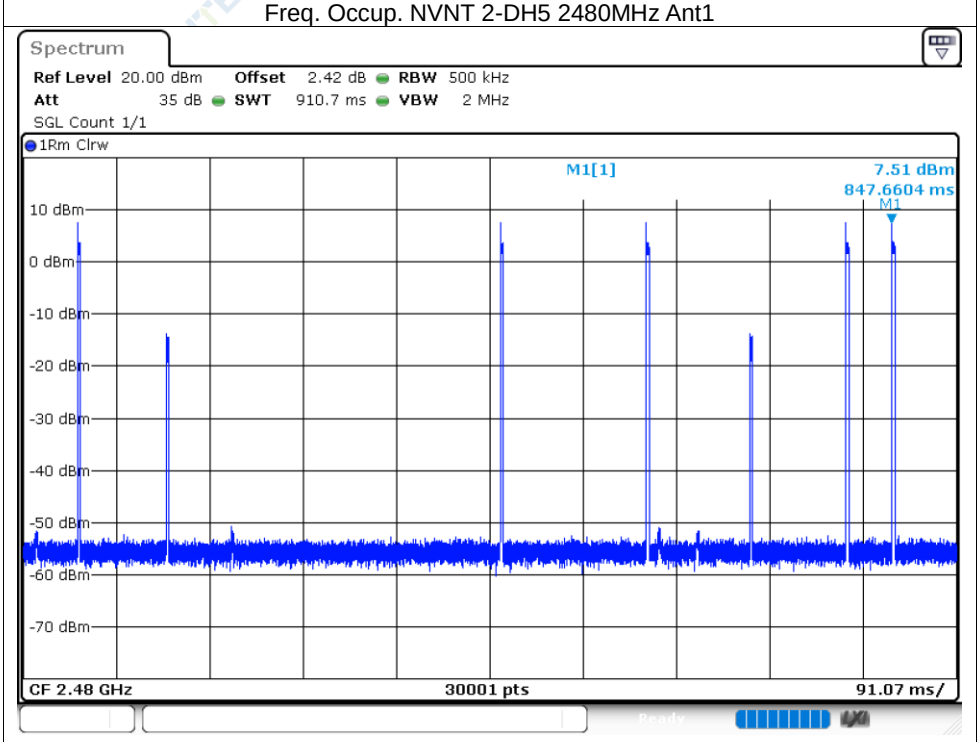
Freq. Occup. NVNT 2-DH3 2480MHz Ant1



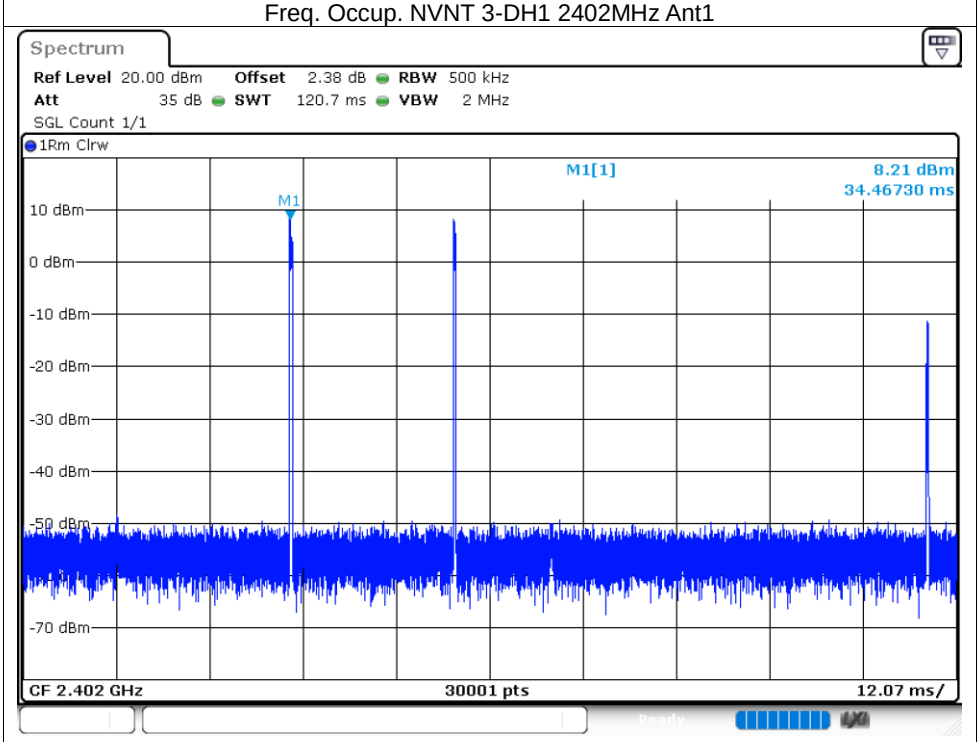
Freq. Occup. NVNT 2-DH5 2402MHz Ant1



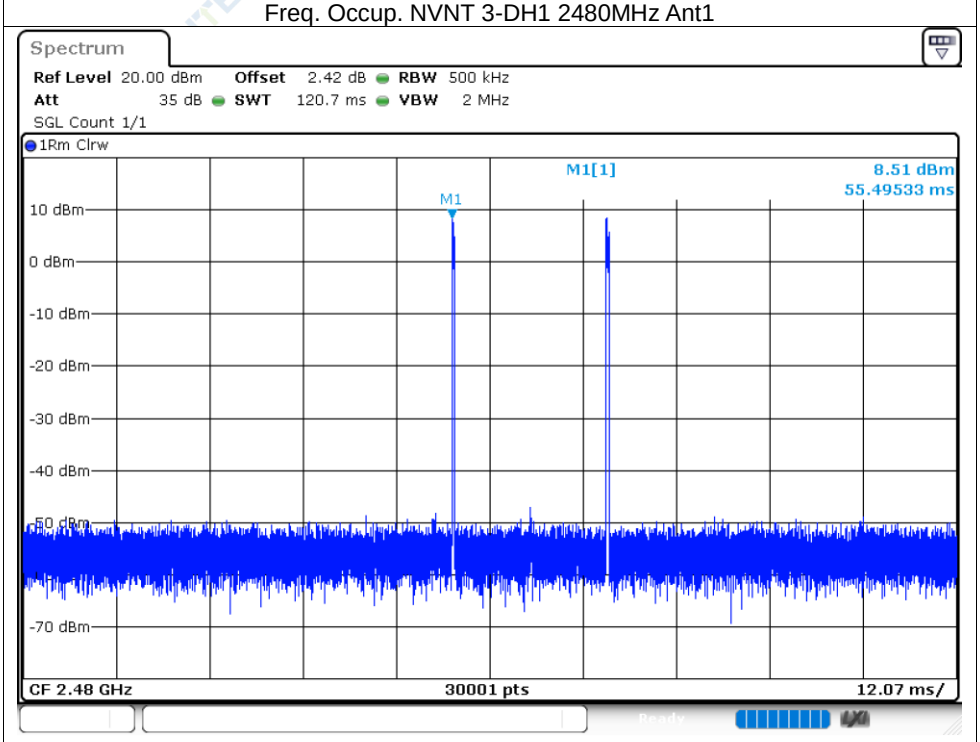
Freq. Occup. NVNT 2-DH5 2480MHz Ant1



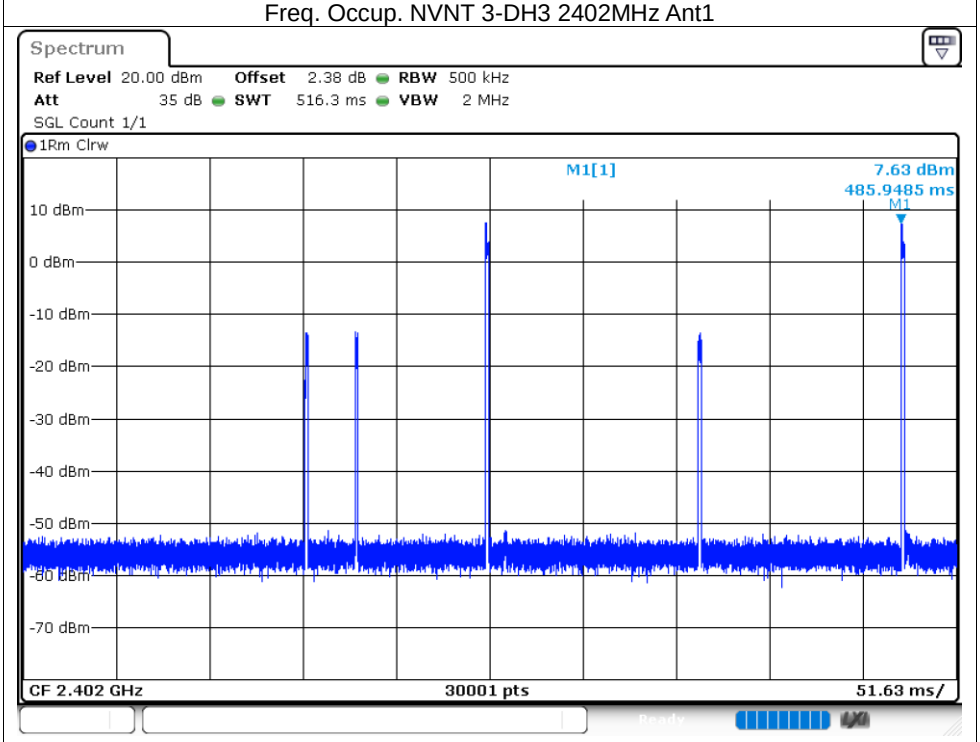
Freq. Occup. NVNT 3-DH1 2402MHz Ant1



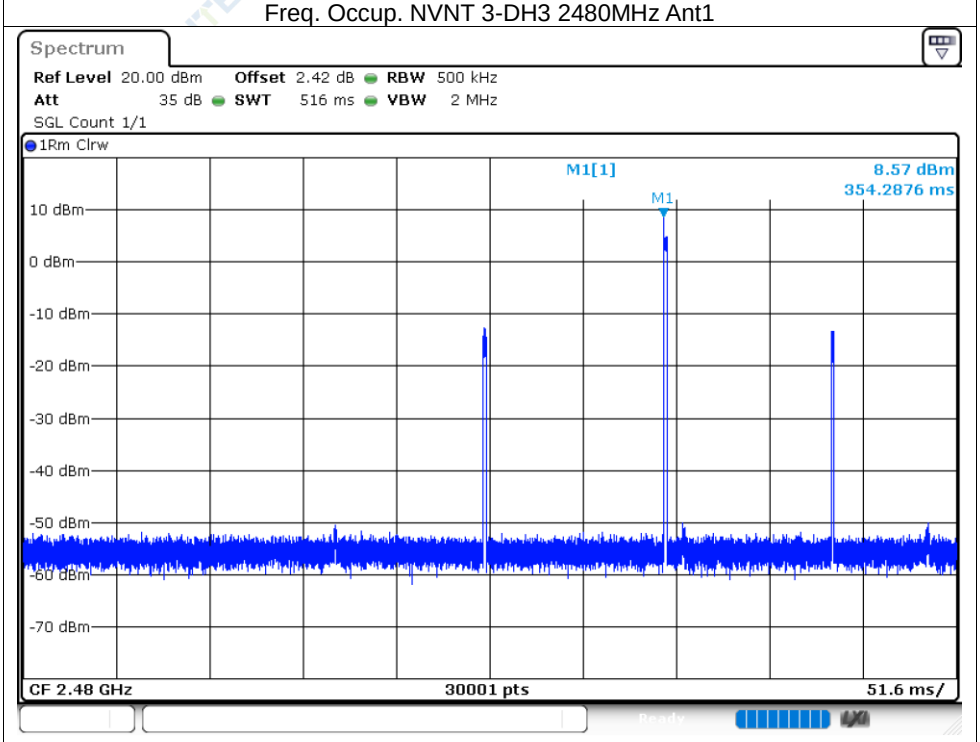
Freq. Occup. NVNT 3-DH1 2480MHz Ant1



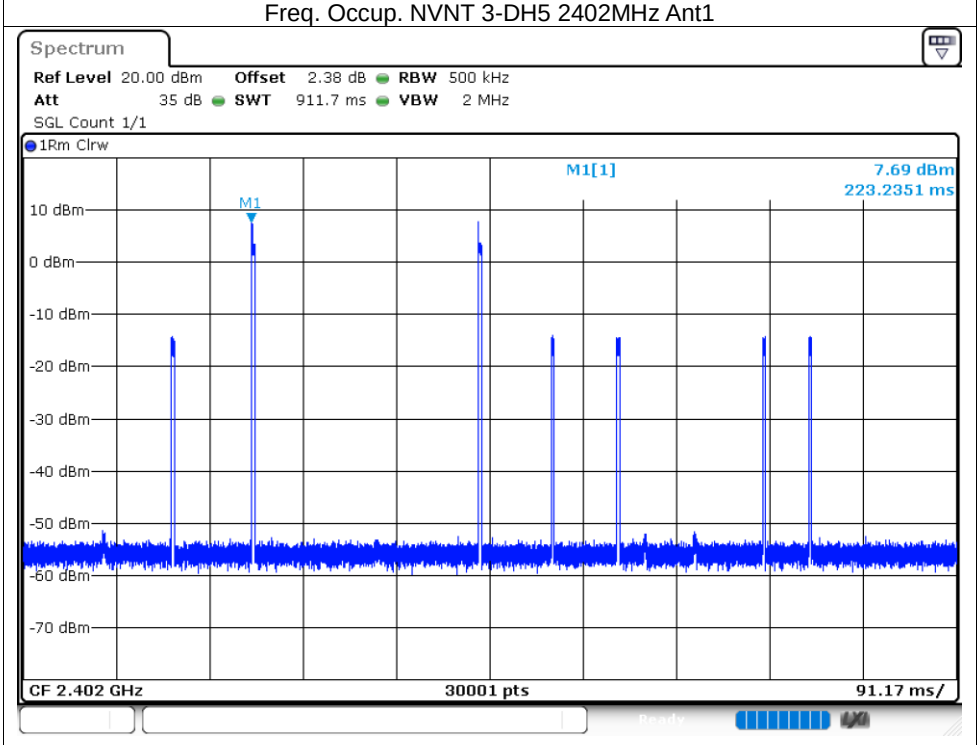
Freq. Occup. NVNT 3-DH3 2402MHz Ant1



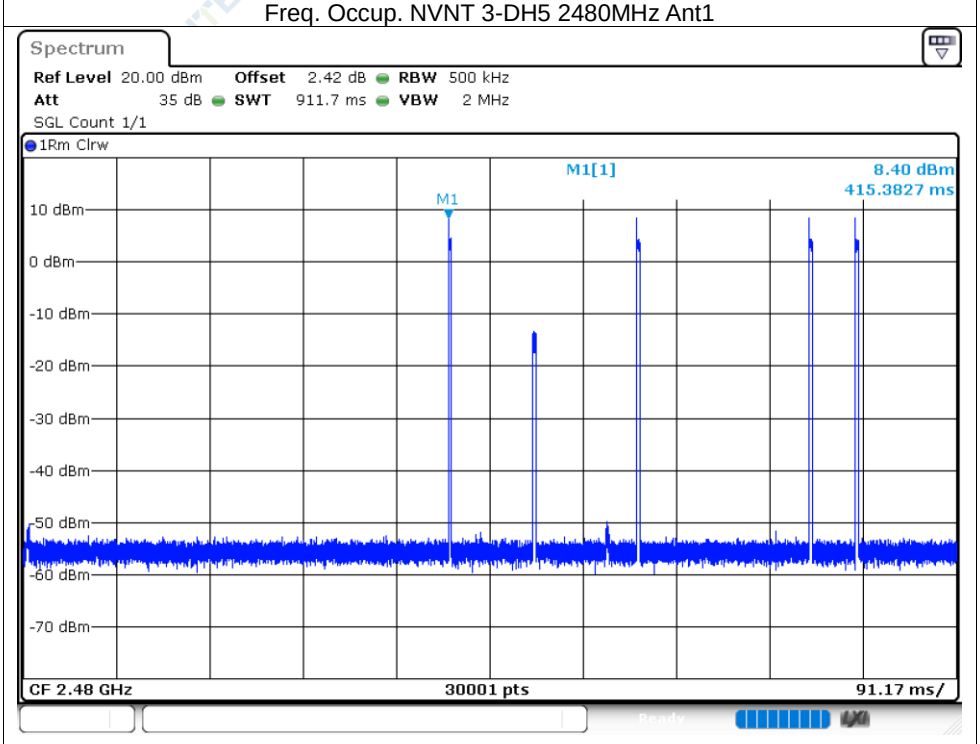
Freq. Occup. NVNT 3-DH3 2480MHz Ant1



Freq. Occup. NVNT 3-DH5 2402MHz Ant1



Freq. Occup. NVNT 3-DH5 2480MHz Ant1

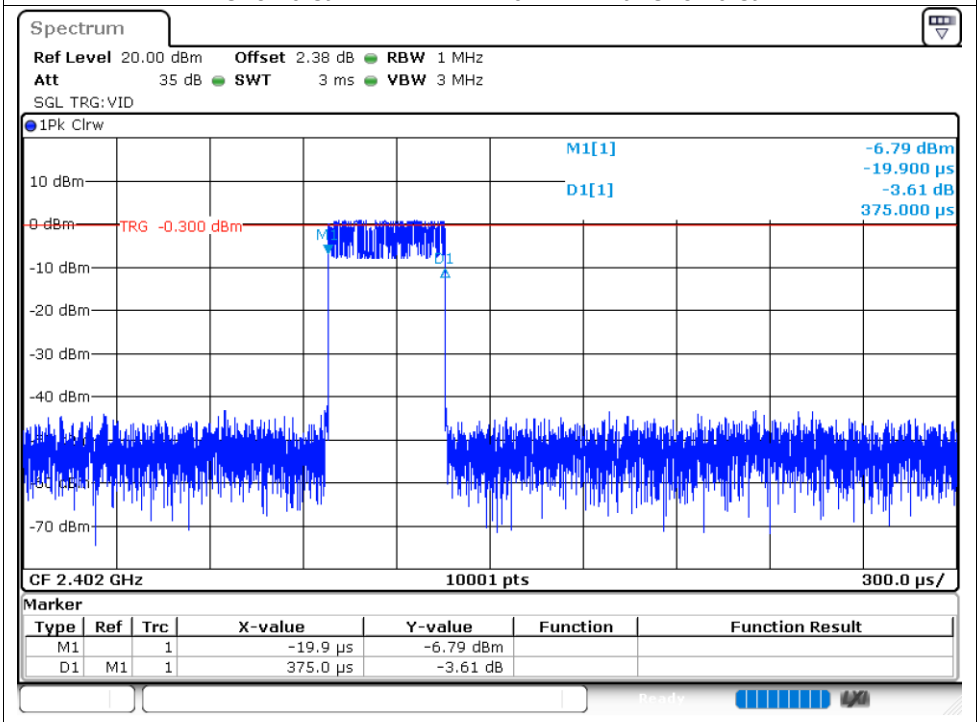


11.3 Dwell Time One Burst

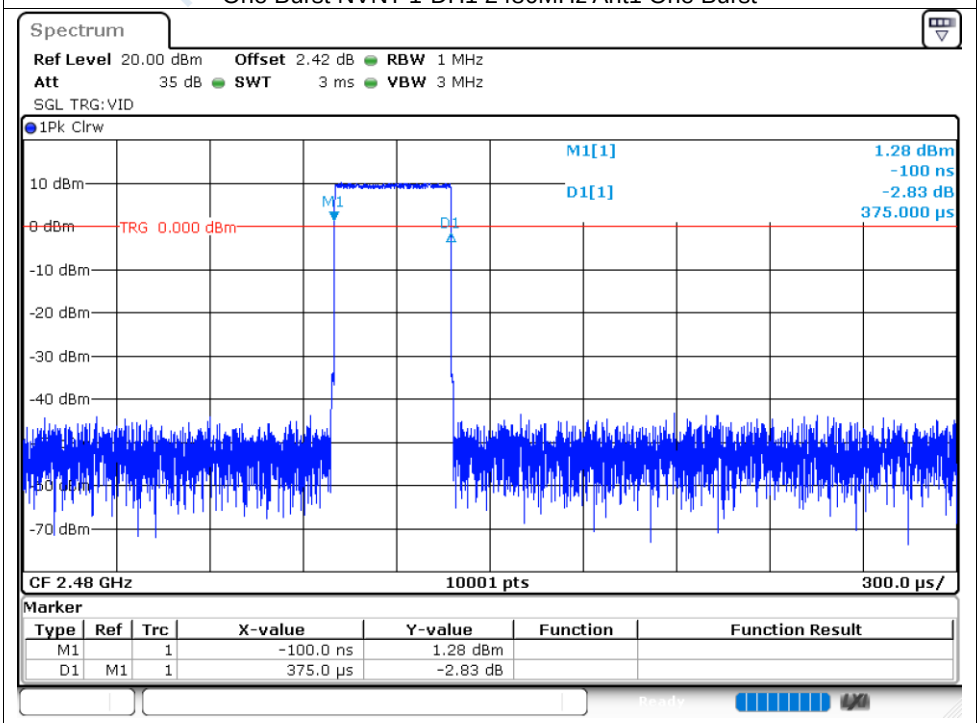
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)
NVNT	1-DH1	2402	Ant1	0.375
NVNT	1-DH1	2480	Ant1	0.375
NVNT	1-DH3	2402	Ant1	1.631
NVNT	1-DH3	2480	Ant1	1.631
NVNT	1-DH5	2402	Ant1	2.879
NVNT	1-DH5	2480	Ant1	2.877
NVNT	2-DH1	2402	Ant1	0.383
NVNT	2-DH1	2480	Ant1	0.383
NVNT	2-DH3	2402	Ant1	1.632
NVNT	2-DH3	2480	Ant1	1.634
NVNT	2-DH5	2402	Ant1	2.881
NVNT	2-DH5	2480	Ant1	2.882
NVNT	3-DH1	2402	Ant1	0.382
NVNT	3-DH1	2480	Ant1	0.382
NVNT	3-DH3	2402	Ant1	1.634
NVNT	3-DH3	2480	Ant1	1.633
NVNT	3-DH5	2402	Ant1	2.885
NVNT	3-DH5	2480	Ant1	2.885

Test Graphs

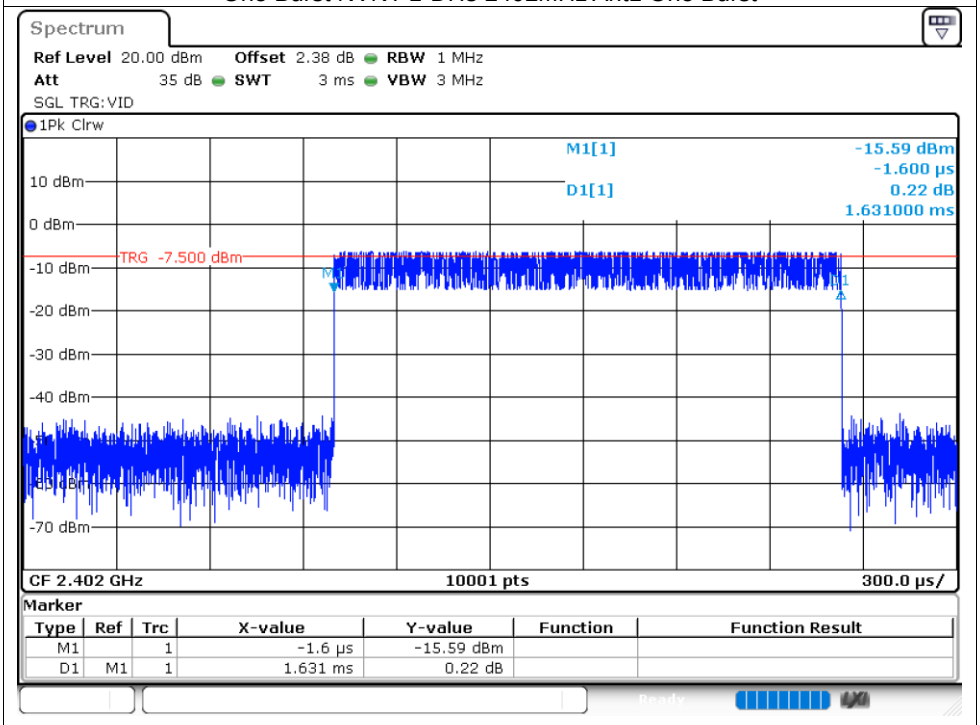
One Burst NVNT 1-DH1 2402MHz Ant1 One Burst



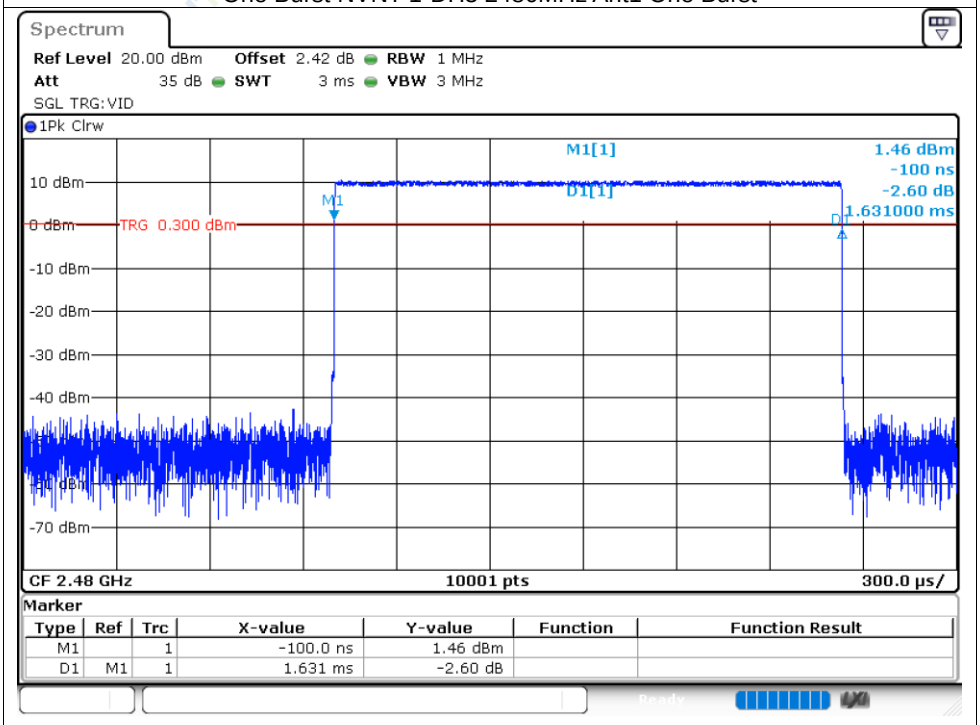
One Burst NVNT 1-DH1 2480MHz Ant1 One Burst



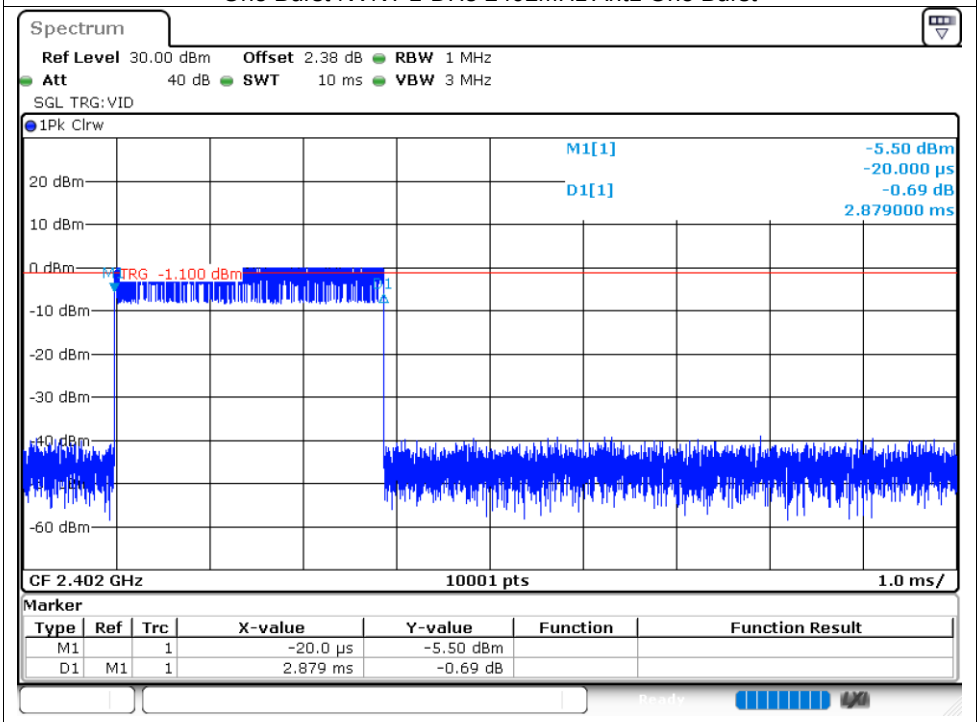
One Burst NVNT 1-DH3 2402MHz Ant1 One Burst



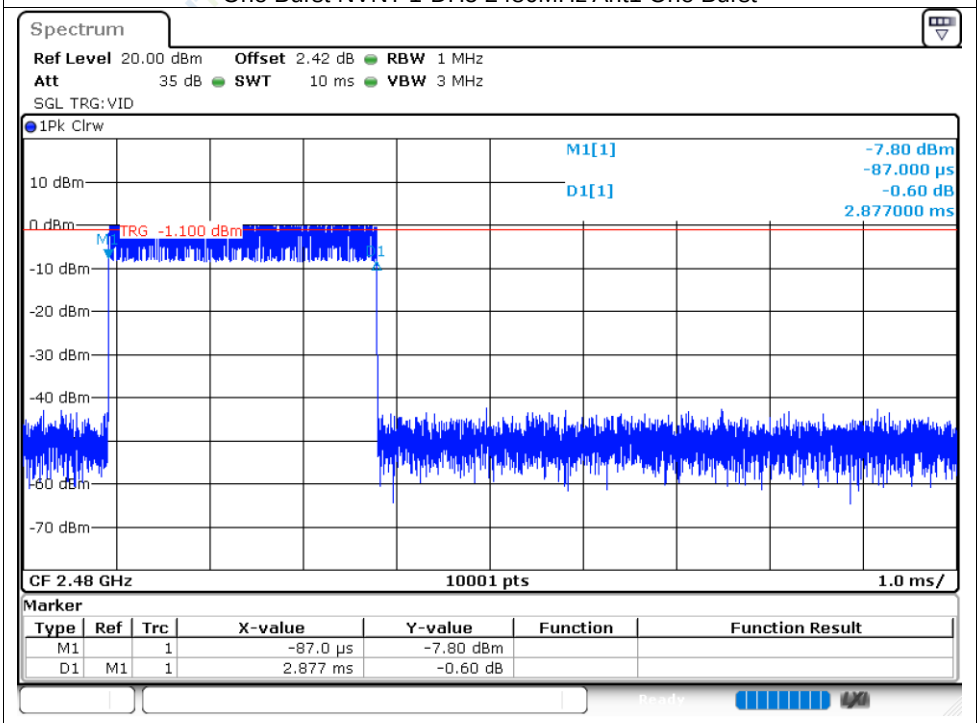
One Burst NVNT 1-DH3 2480MHz Ant1 One Burst



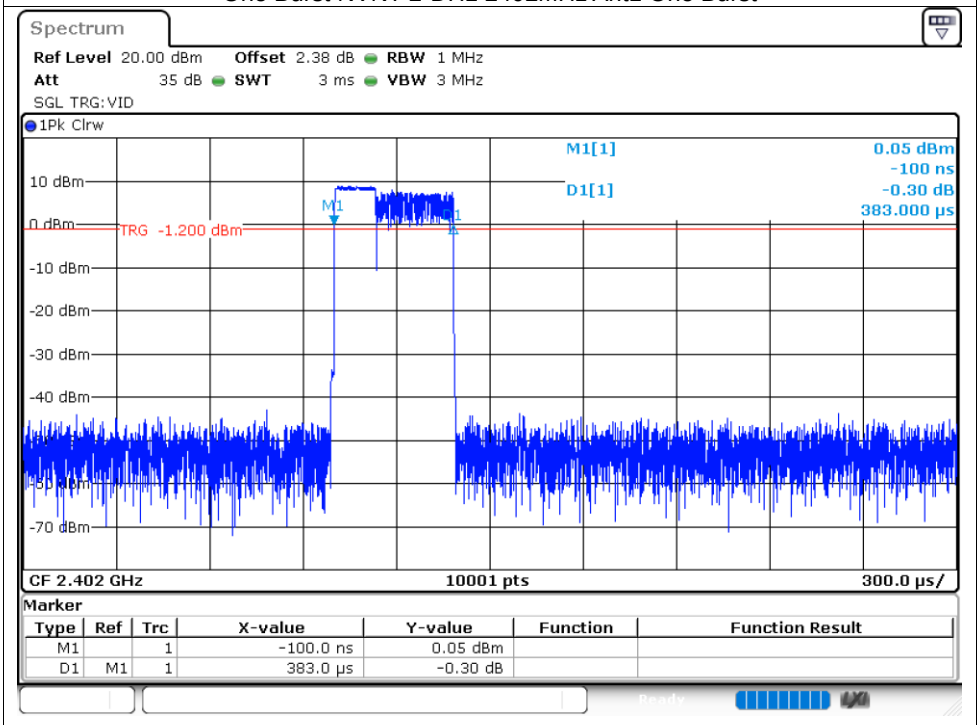
One Burst NVNT 1-DH5 2402MHz Ant1 One Burst



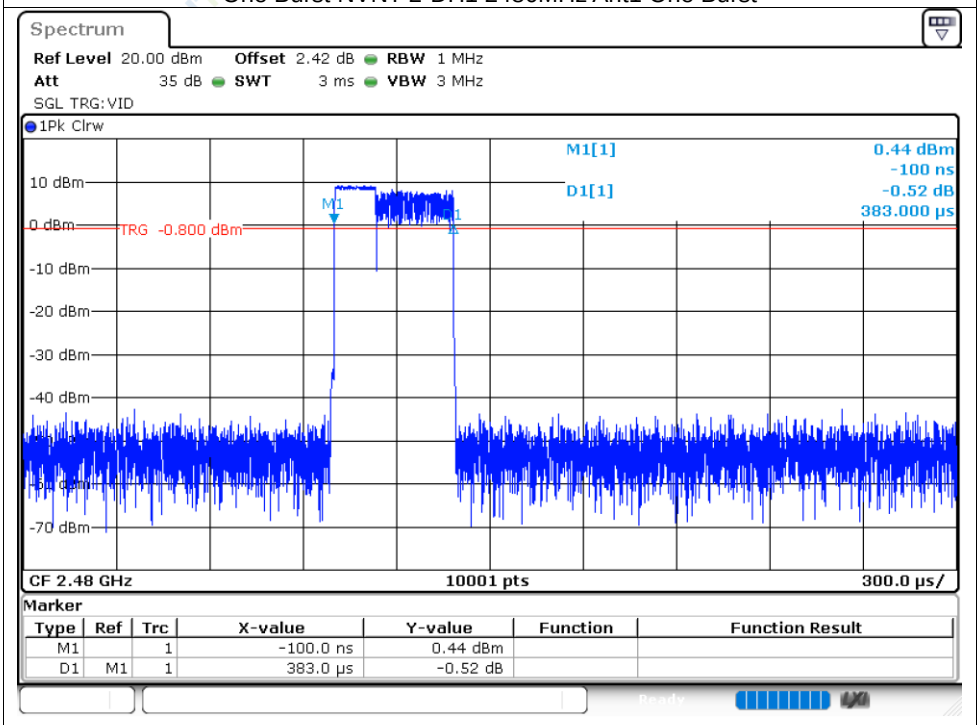
One Burst NVNT 1-DH5 2480MHz Ant1 One Burst



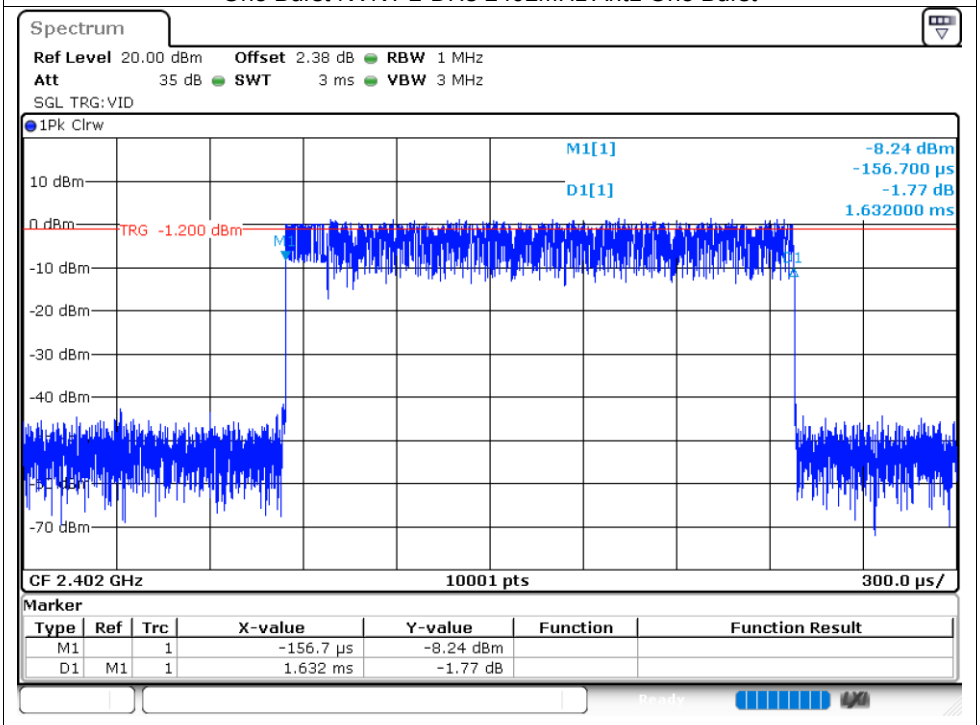
One Burst NVNT 2-DH1 2402MHz Ant1 One Burst



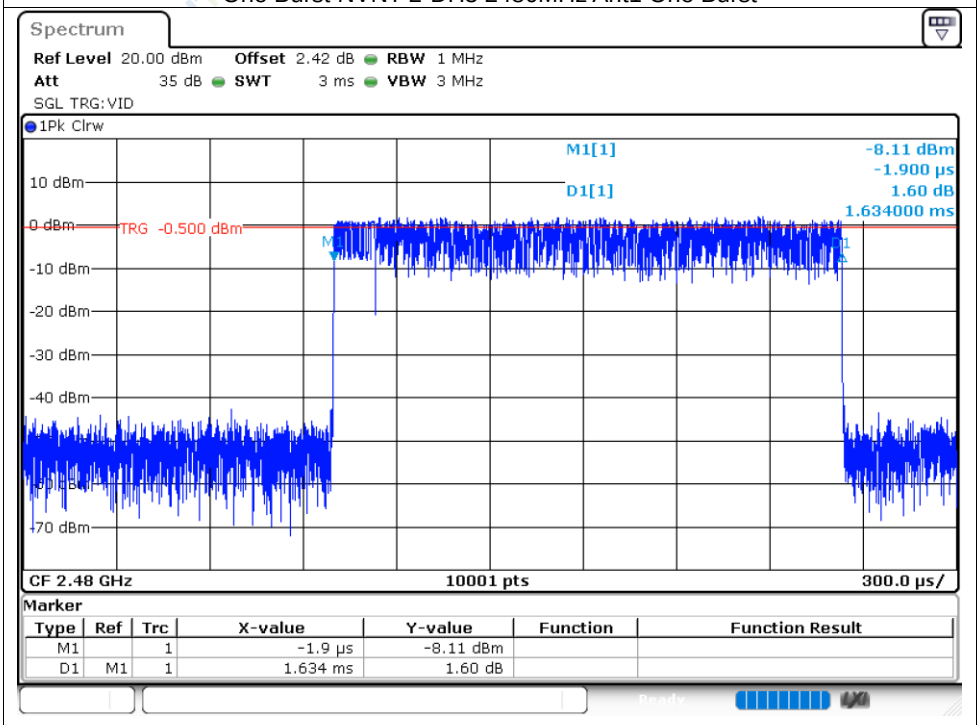
One Burst NVNT 2-DH1 2480MHz Ant1 One Burst



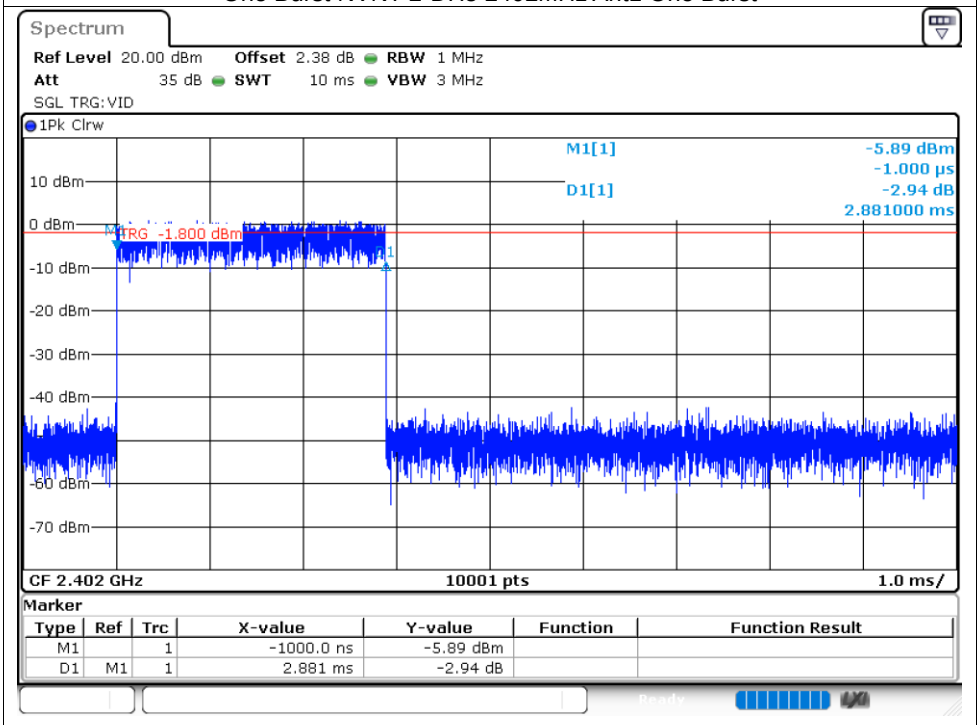
One Burst NVNT 2-DH3 2402MHz Ant1 One Burst



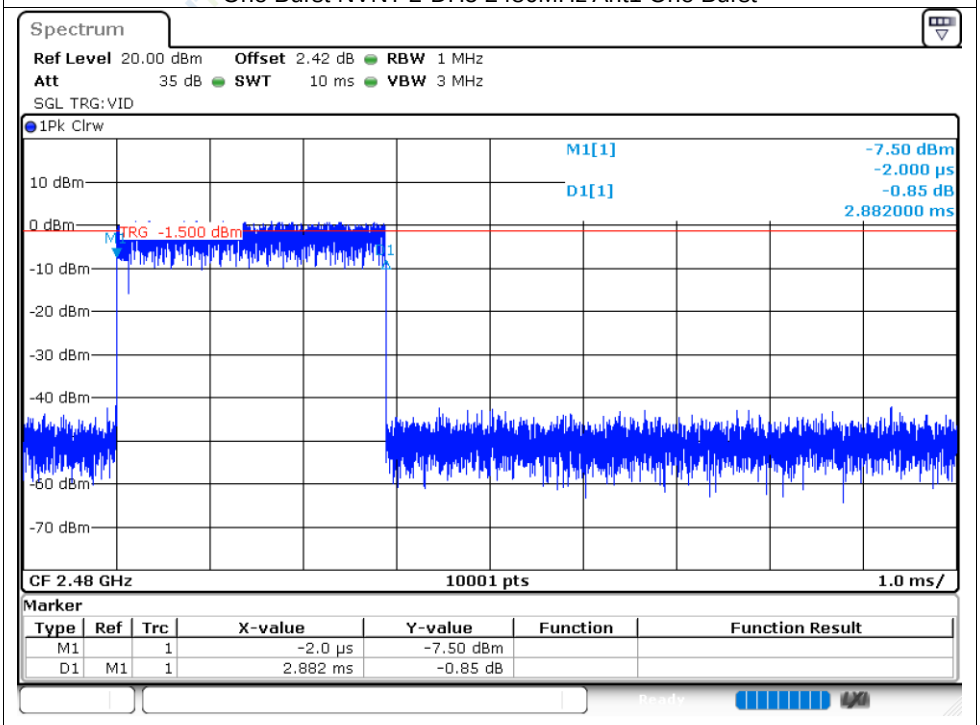
One Burst NVNT 2-DH3 2480MHz Ant1 One Burst



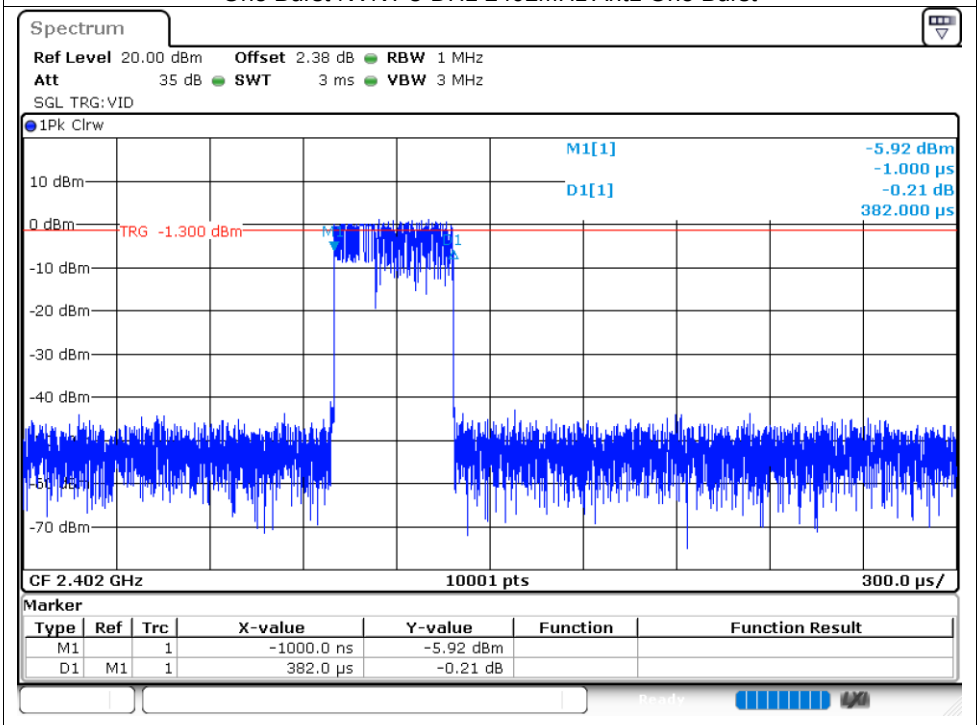
One Burst NVNT 2-DH5 2402MHz Ant1 One Burst



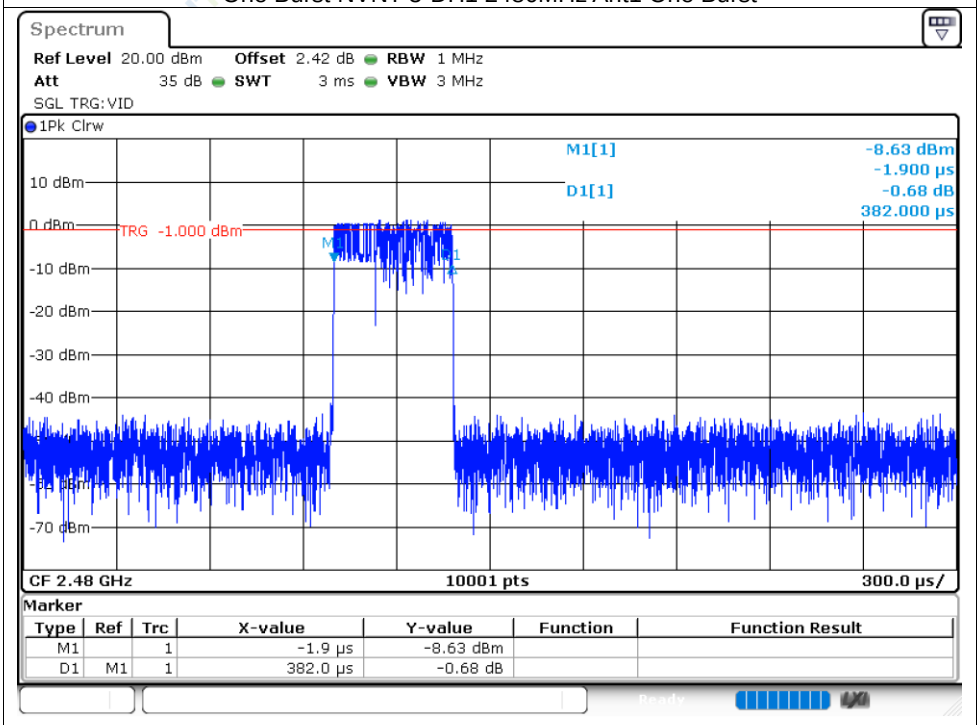
One Burst NVNT 2-DH5 2480MHz Ant1 One Burst



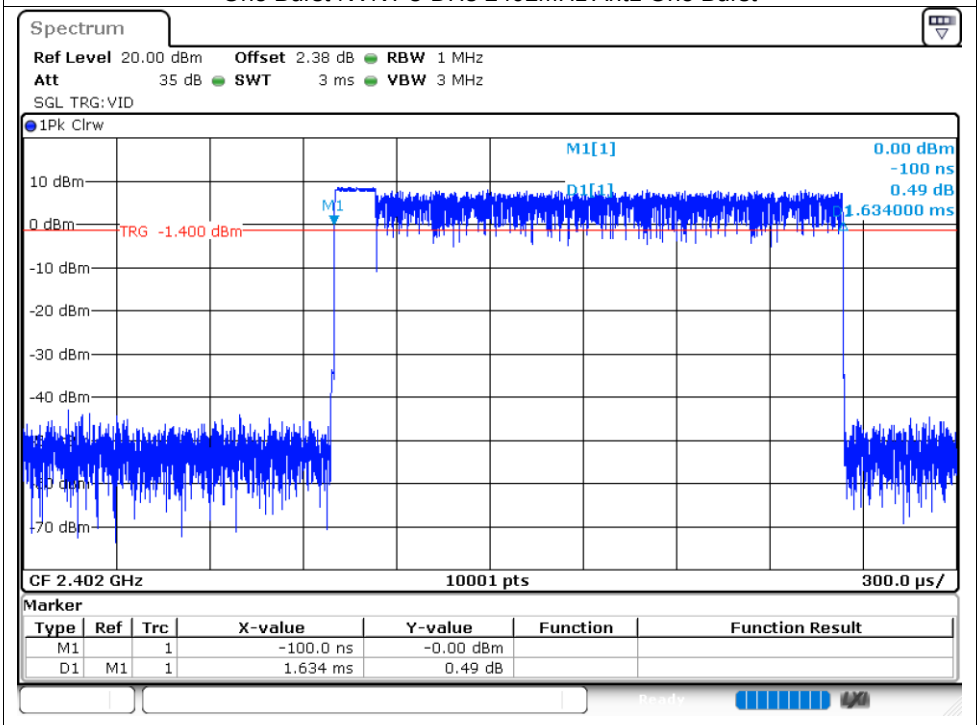
One Burst NVNT 3-DH1 2402MHz Ant1 One Burst



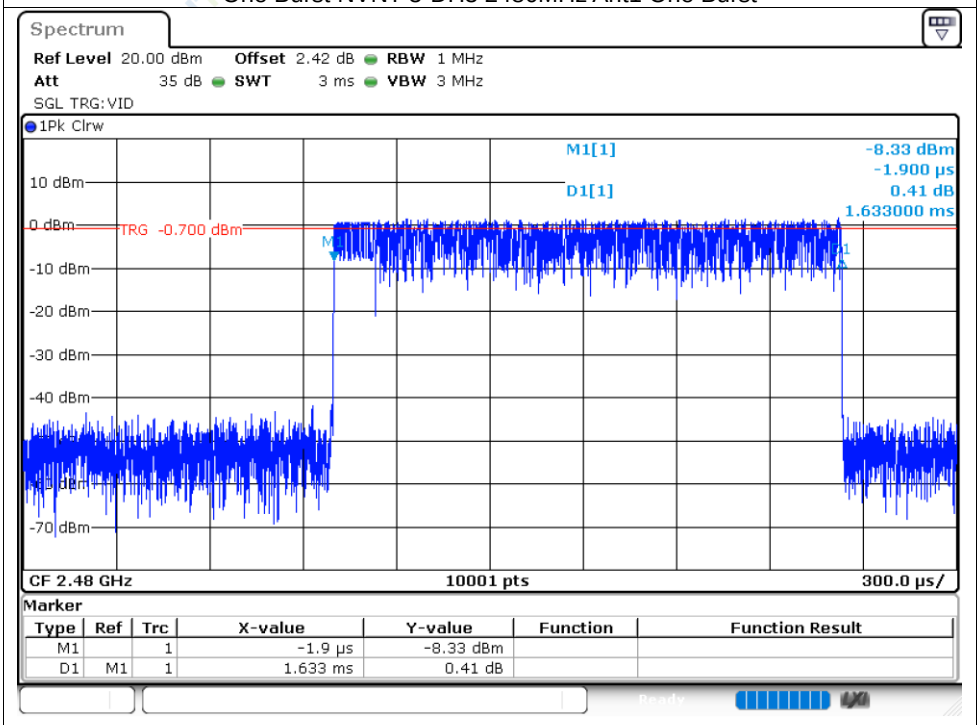
One Burst NVNT 3-DH1 2480MHz Ant1 One Burst



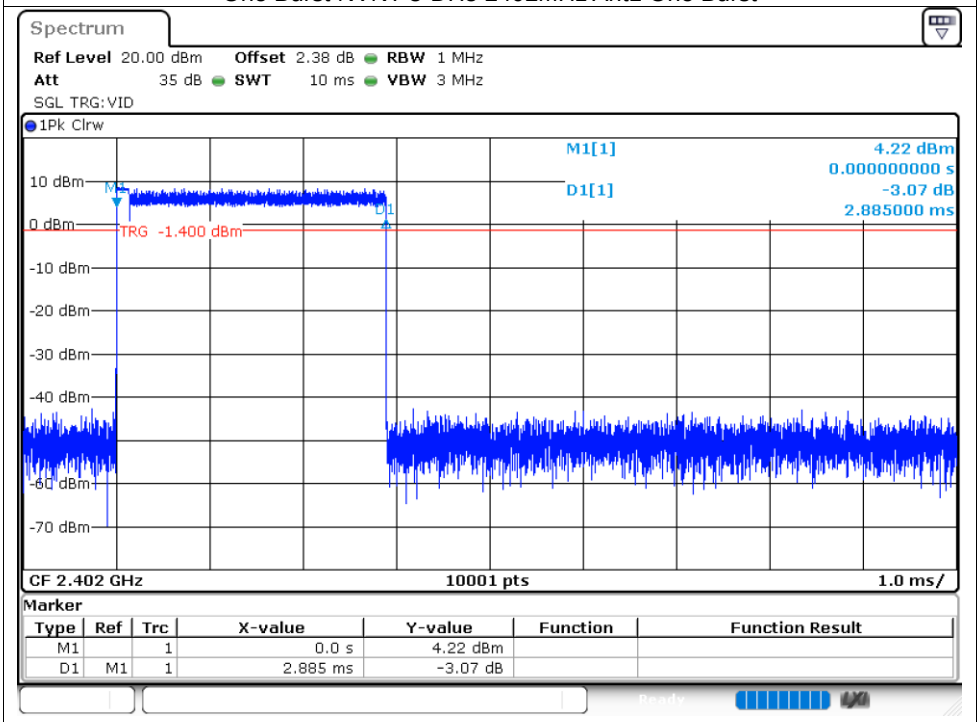
One Burst NVNT 3-DH3 2402MHz Ant1 One Burst



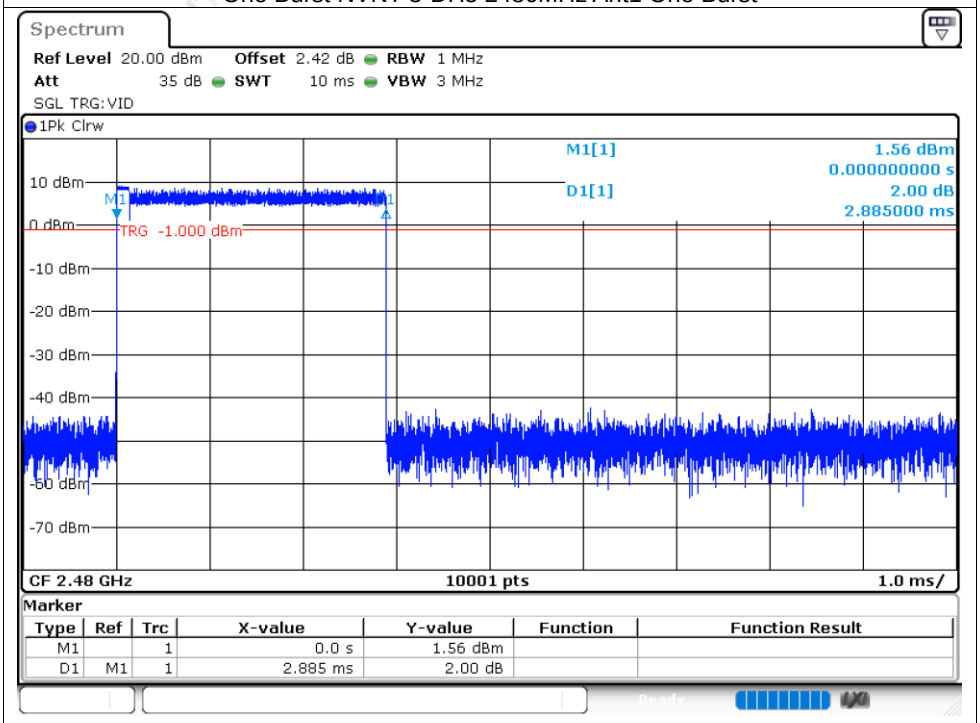
One Burst NVNT 3-DH3 2480MHz Ant1 One Burst



One Burst NVNT 3-DH5 2402MHz Ant1 One Burst



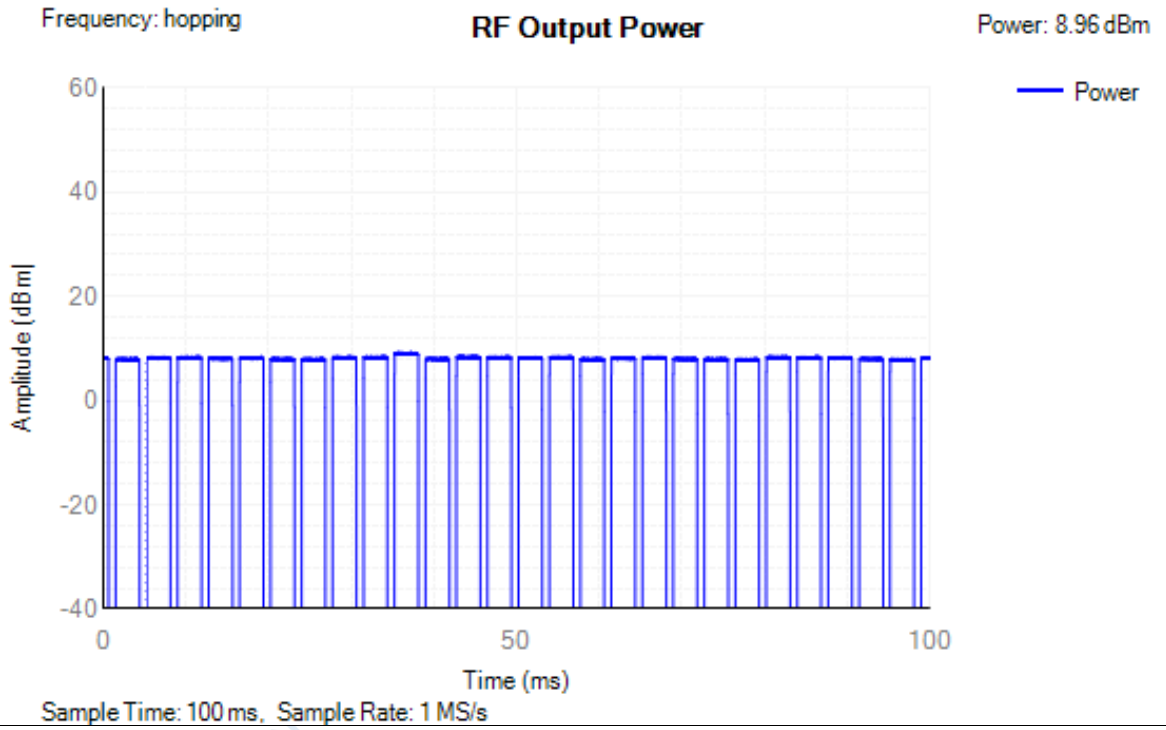
One Burst NVNT 3-DH5 2480MHz Ant1 One Burst



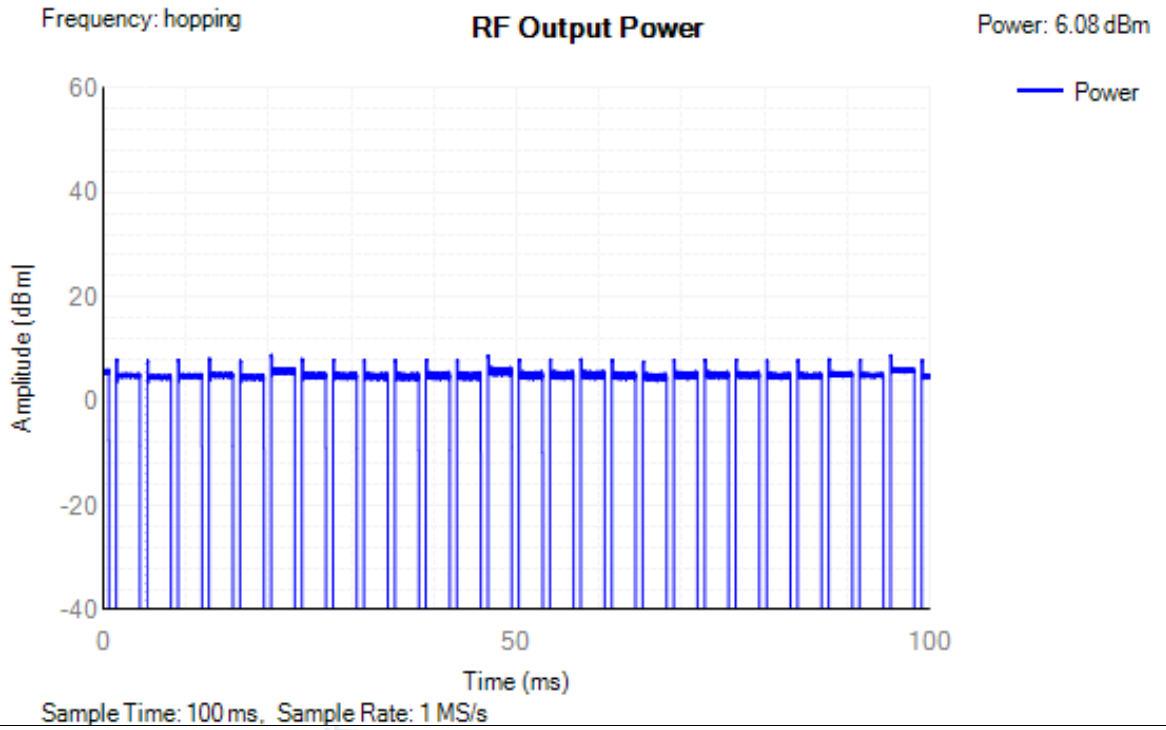
11.4 RF Output Power

Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	hopping	Ant1	8.96	28	8.83	20	Pass
NVNT	2-DH5	hopping	Ant1	6.08	28	5.95	20	Pass
NVNT	3-DH5	hopping	Ant1	6.09	28	5.96	20	Pass
NVHT	1-DH5	hopping	Ant1	8.84	30	8.71	20	Pass
NVHT	2-DH5	hopping	Ant1	5.96	30	5.83	20	Pass
NVHT	3-DH5	hopping	Ant1	5.97	30	5.84	20	Pass
NVLT	1-DH5	hopping	Ant1	8.81	26	8.68	20	Pass
NVLT	2-DH5	hopping	Ant1	5.93	26	5.8	20	Pass
NVLT	3-DH5	hopping	Ant1	5.94	26	5.81	20	Pass

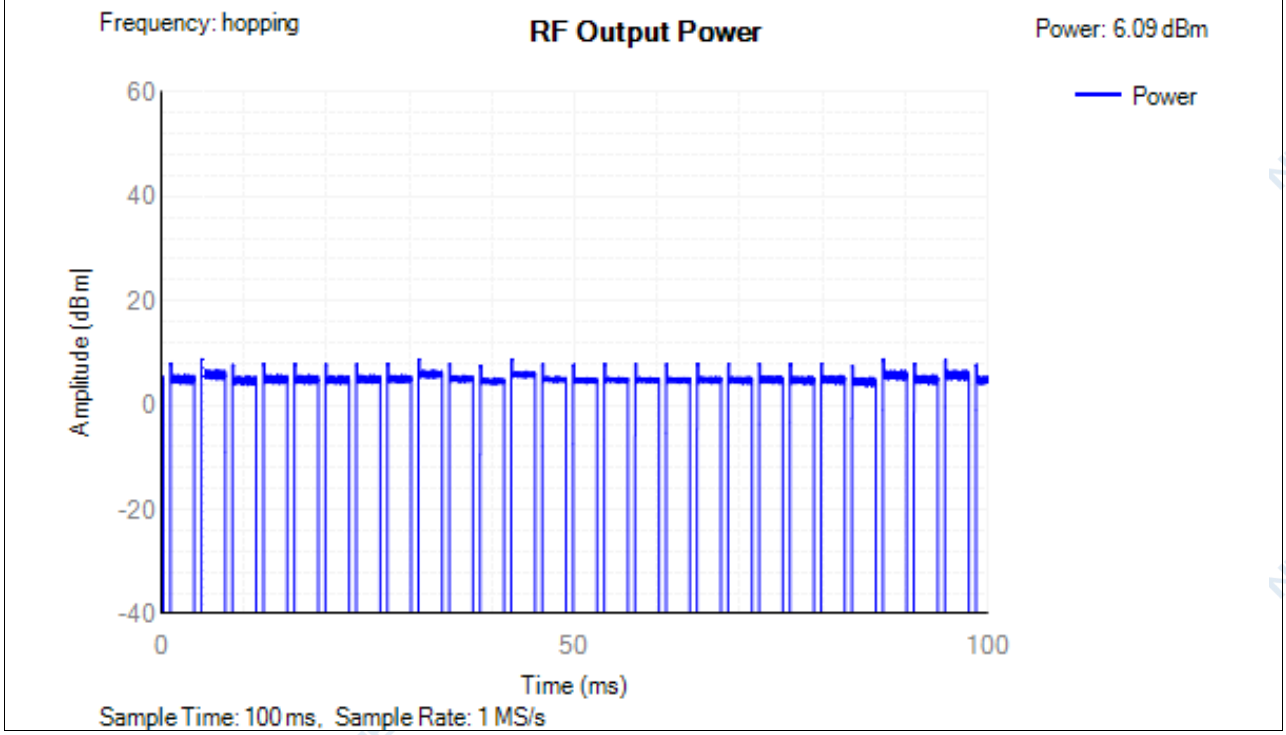
Test Graphs
Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 3-DH5 2402MHz Ant1

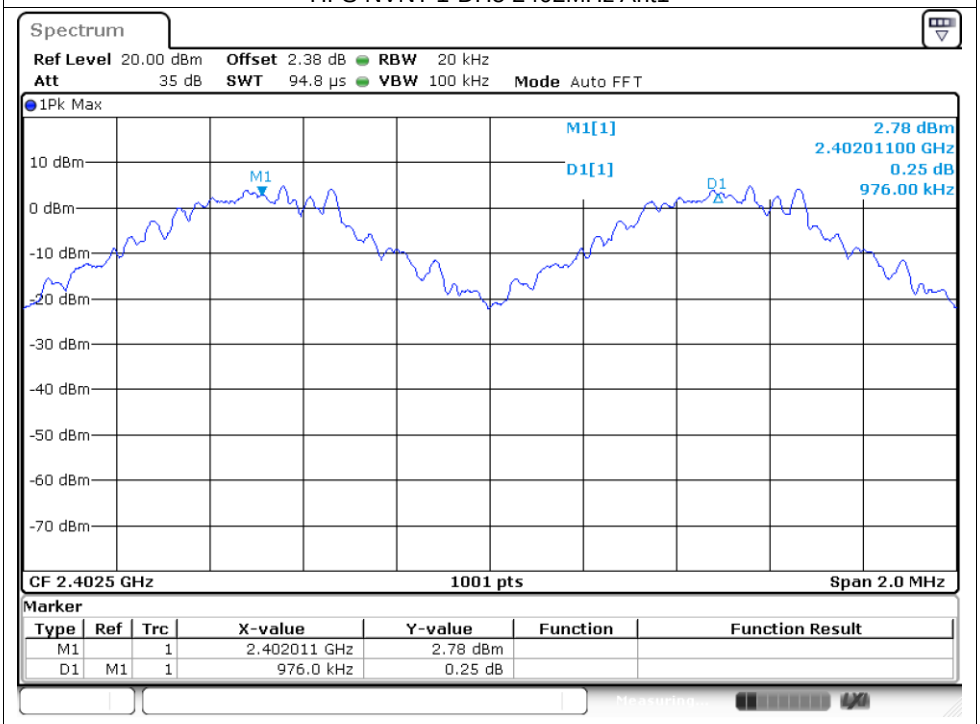


11.5 Hopping Frequency Separation

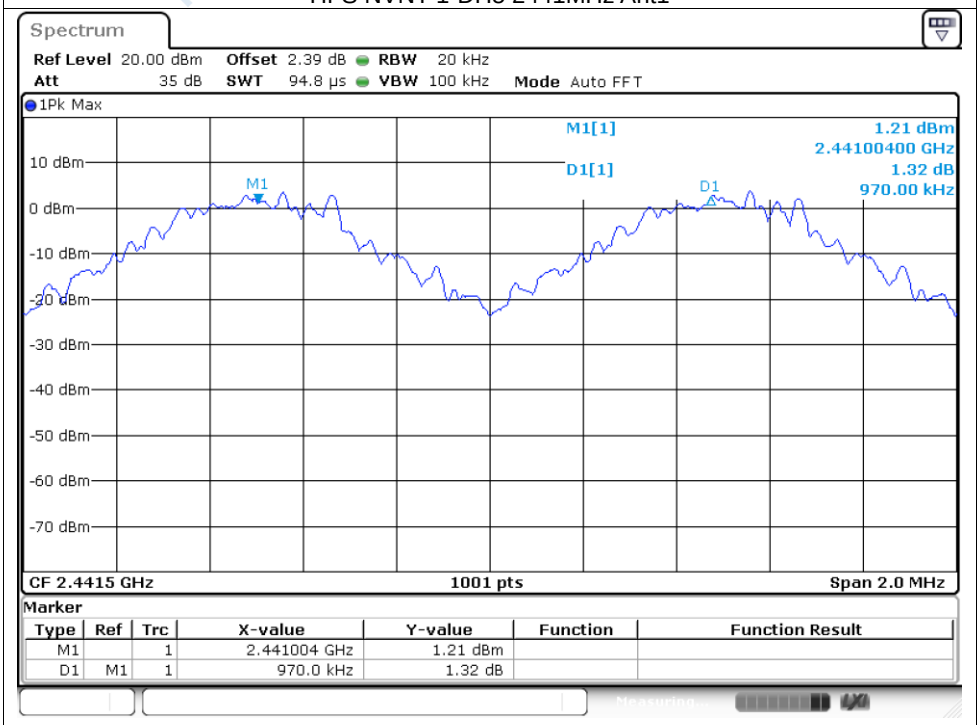
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.011	2402.987	0.976	0.1	Pass
NVNT	1-DH5	Ant1	2441.004	2441.974	0.97	0.1	Pass
NVNT	1-DH5	Ant1	2479.001	2480.016	1.015	0.1	Pass
NVNT	2-DH5	Ant1	2402.164	2403.164	1	0.1	Pass
NVNT	2-DH5	Ant1	2441.164	2442.164	1	0.1	Pass
NVNT	2-DH5	Ant1	2479.162	2480.164	1.002	0.1	Pass
NVNT	3-DH5	Ant1	2401.979	2402.997	1.018	0.1	Pass
NVNT	3-DH5	Ant1	2440.979	2441.98	1.001	0.1	Pass
NVNT	3-DH5	Ant1	2478.959	2479.995	1.036	0.1	Pass

Test Graphs

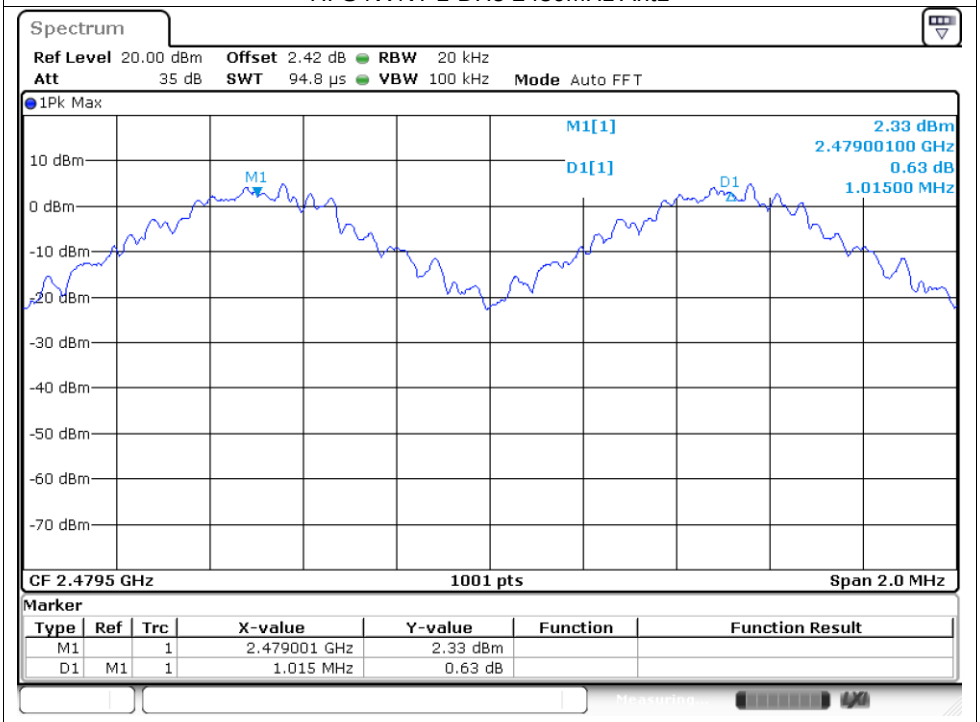
HFS NVNT 1-DH5 2402MHz Ant1



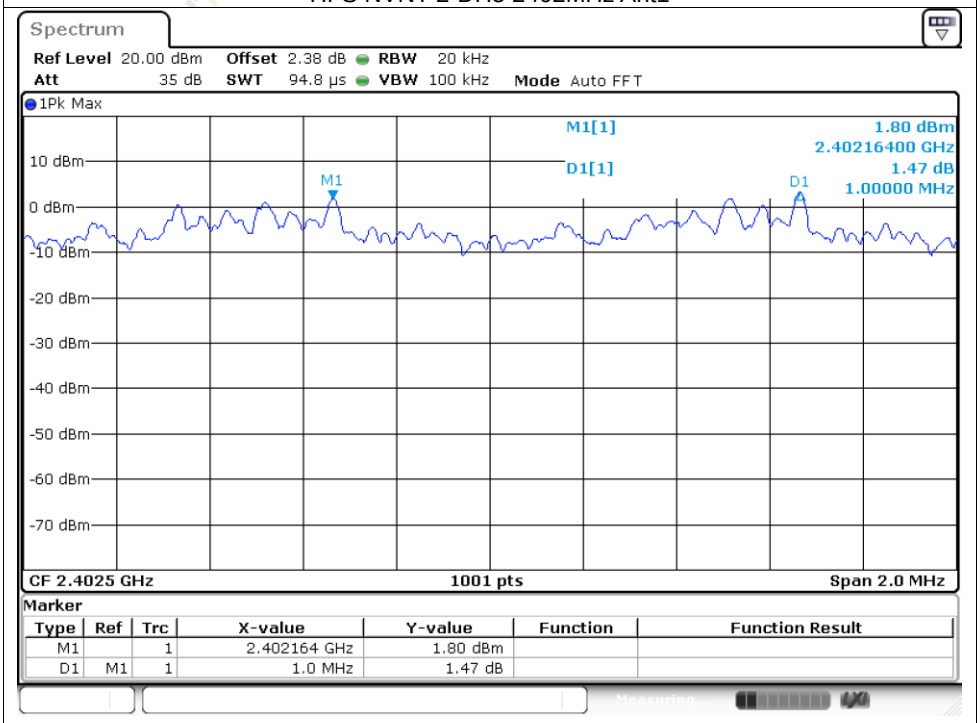
HFS NVNT 1-DH5 2441MHz Ant1



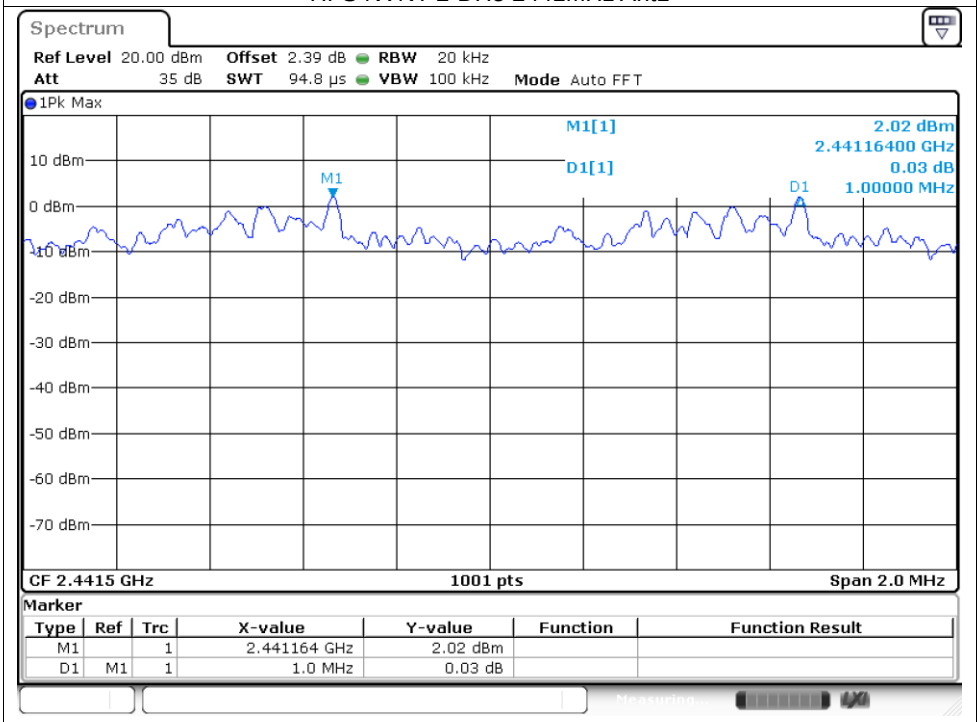
HFS NVNT 1-DH5 2480MHz Ant1



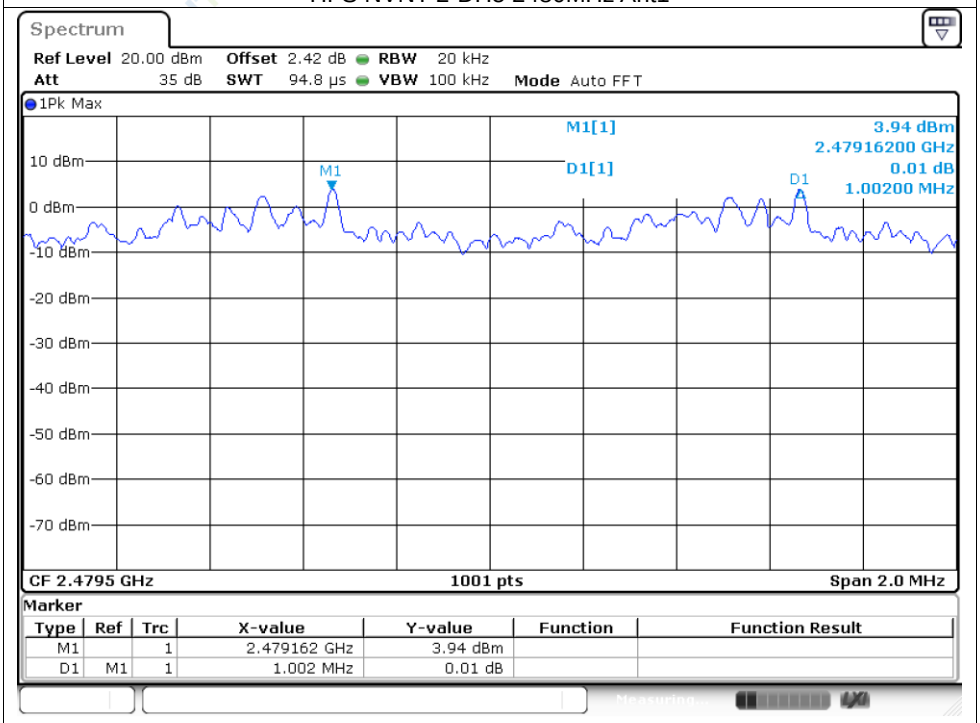
HFS NVNT 2-DH5 2402MHz Ant1



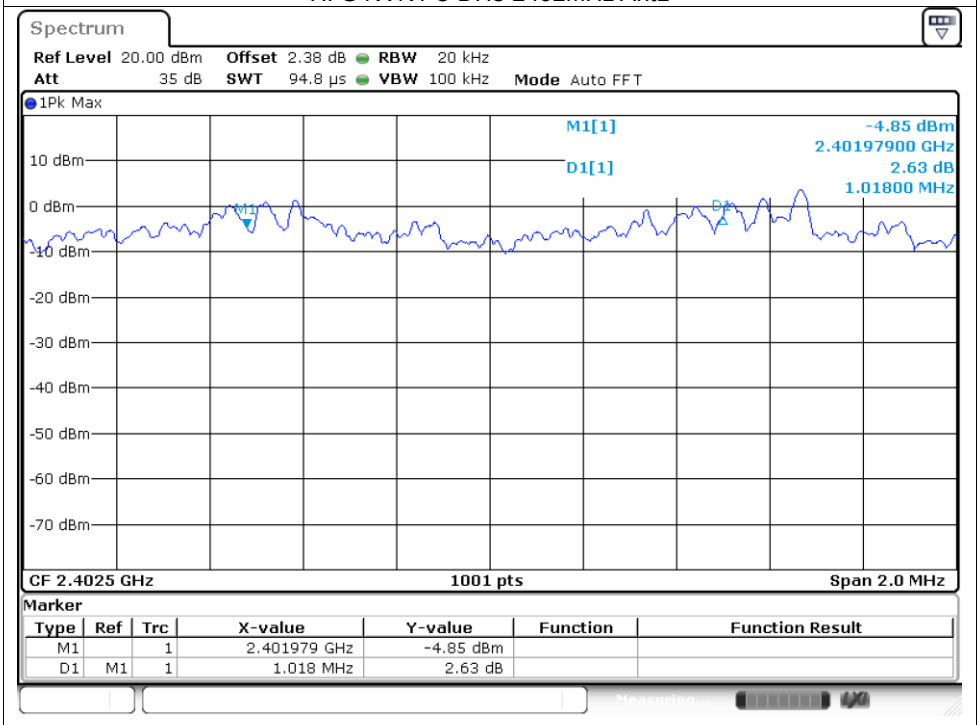
HFS NVNT 2-DH5 2441MHz Ant1



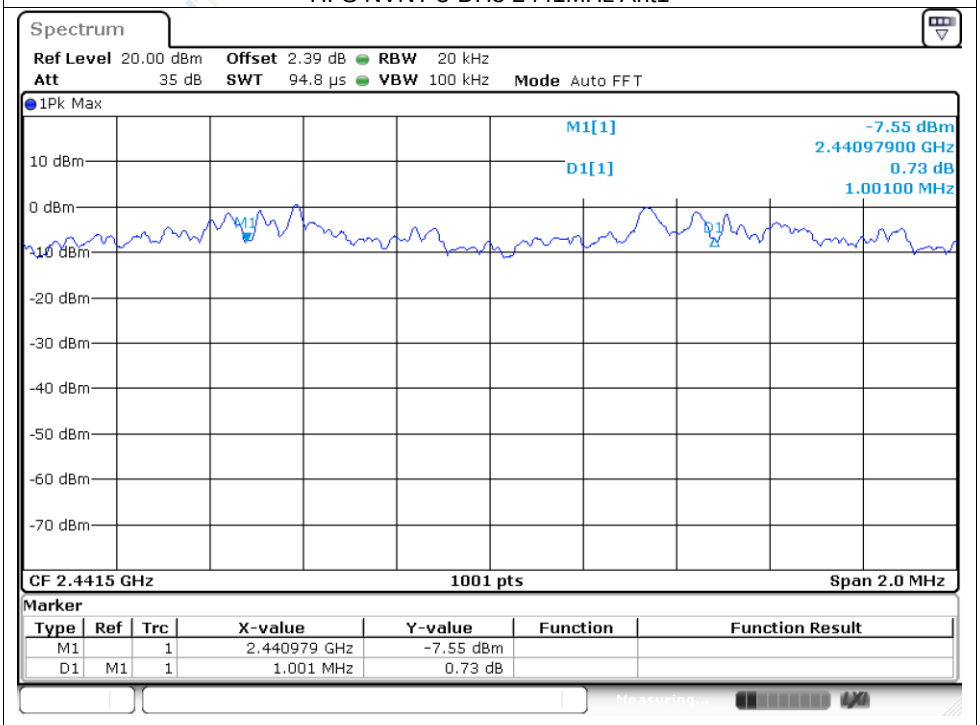
HFS NVNT 2-DH5 2480MHz Ant1



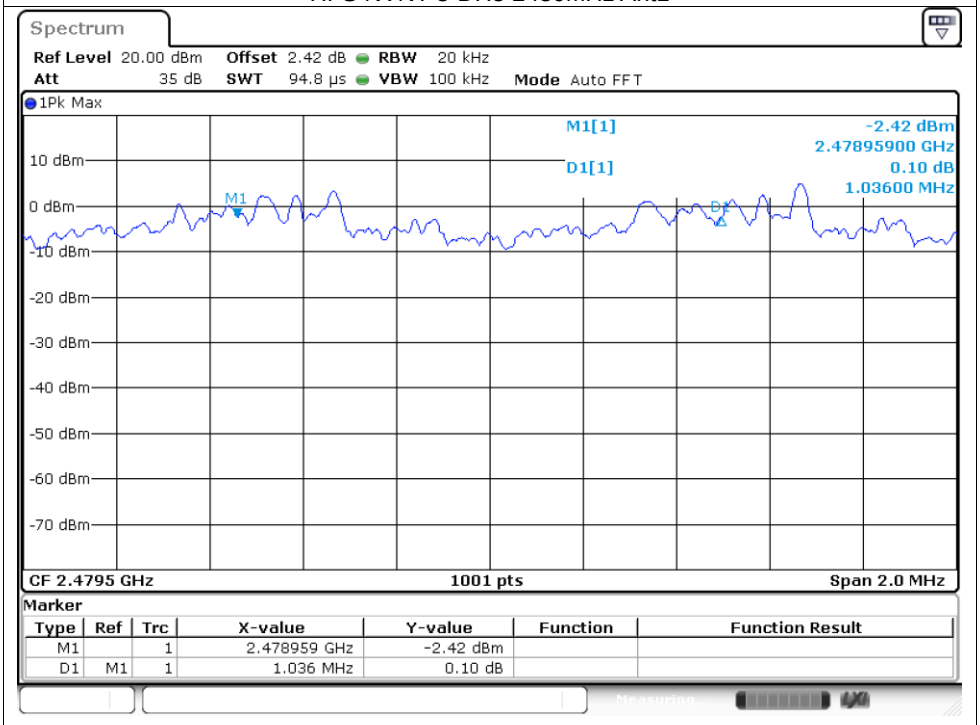
HFS NVNT 3-DH5 2402MHz Ant1



HFS NVNT 3-DH5 2441MHz Ant1



HFS NVNT 3-DH5 2480MHz Ant1

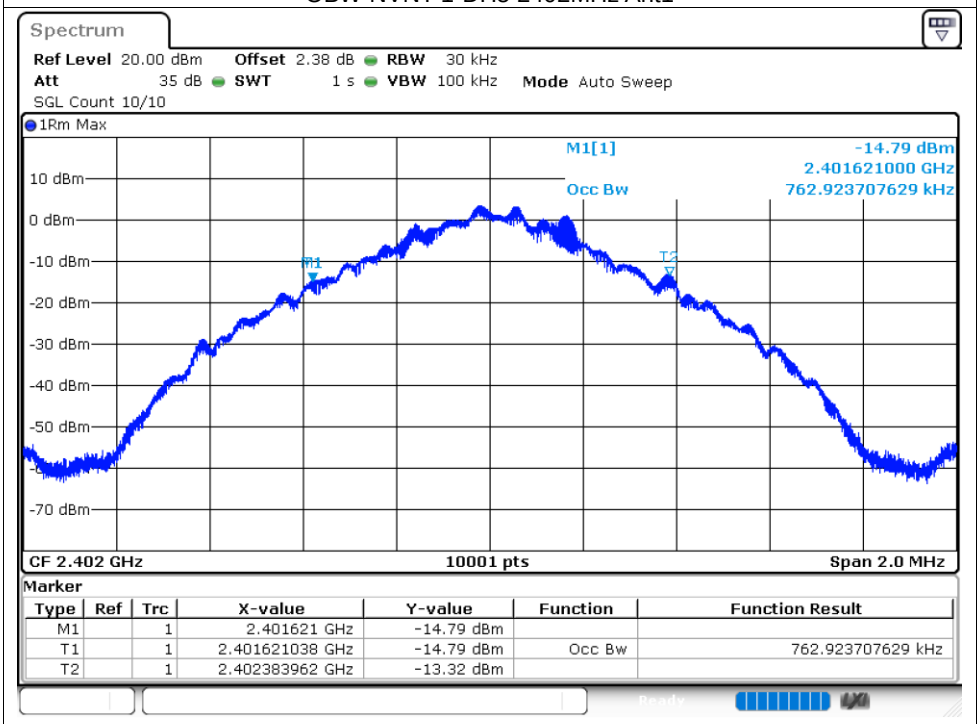


11.6 Occupied Channel Bandwidth

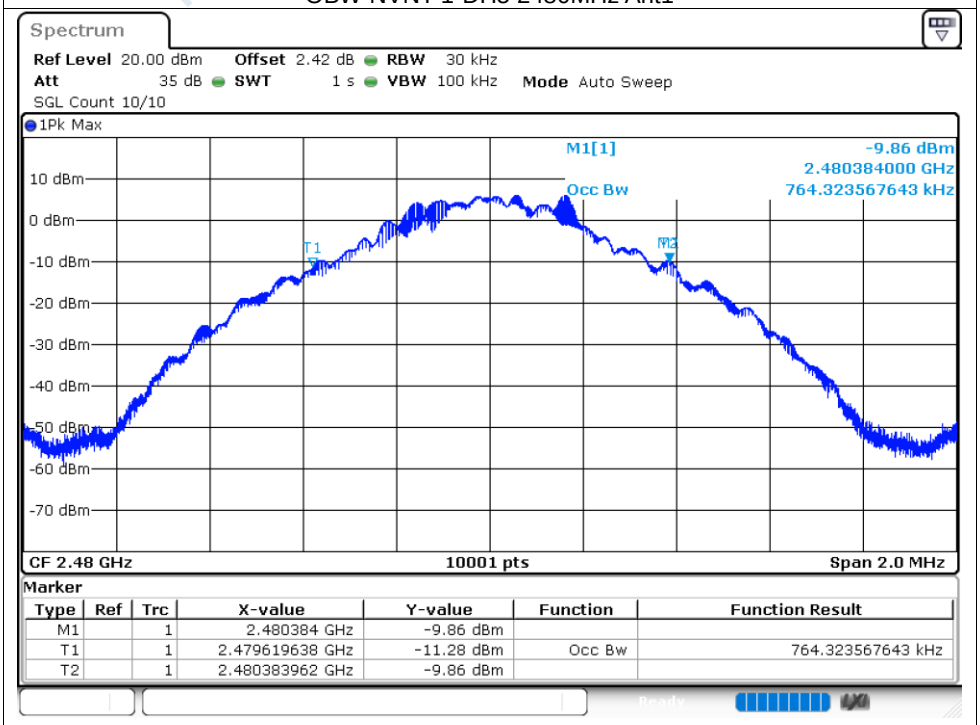
Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	2402.002	0.763	2401.621	2402.384	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	Ant1	2480.002	0.764	2479.62	2480.384	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	Ant1	2401.995	1.169	2401.41	2402.579	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	Ant1	2479.995	1.168	2479.411	2480.579	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	Ant1	2402	1.169	2401.416	2402.585	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	Ant1	2480	1.167	2479.416	2480.584	2400 - 2483.5MHz	Pass

Test Graphs

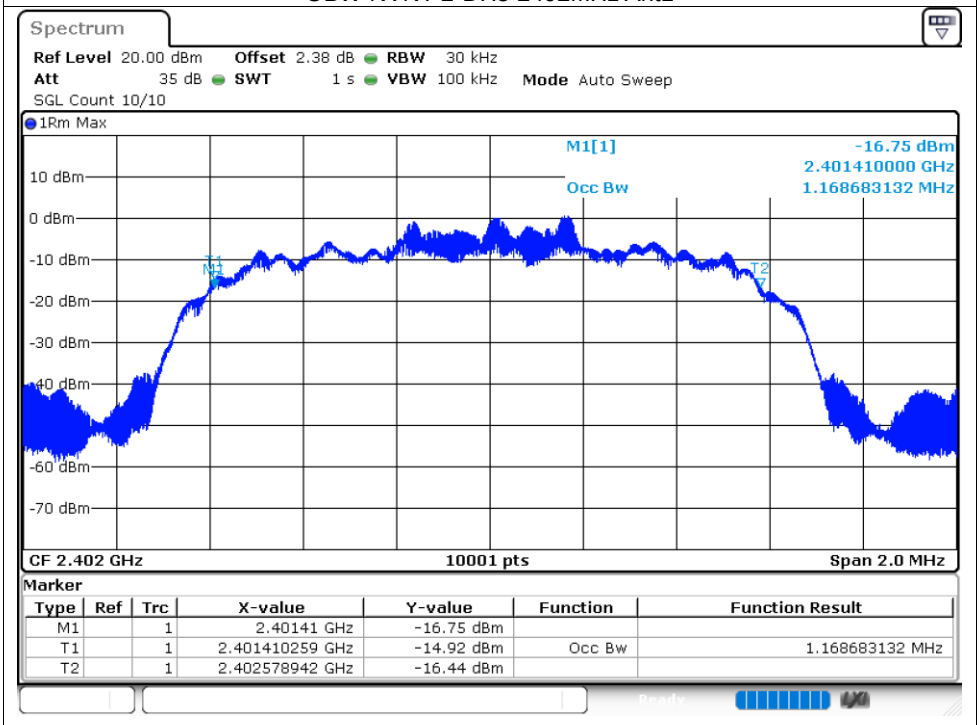
OBW NVNT 1-DH5 2402MHz Ant1



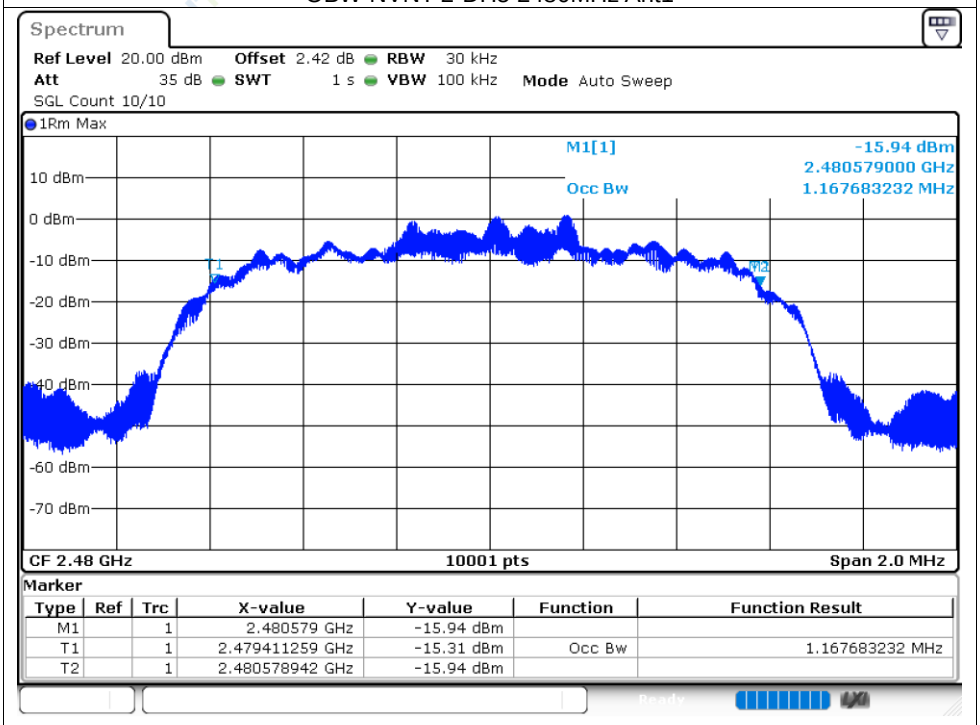
OBW NVNT 1-DH5 2480MHz Ant1



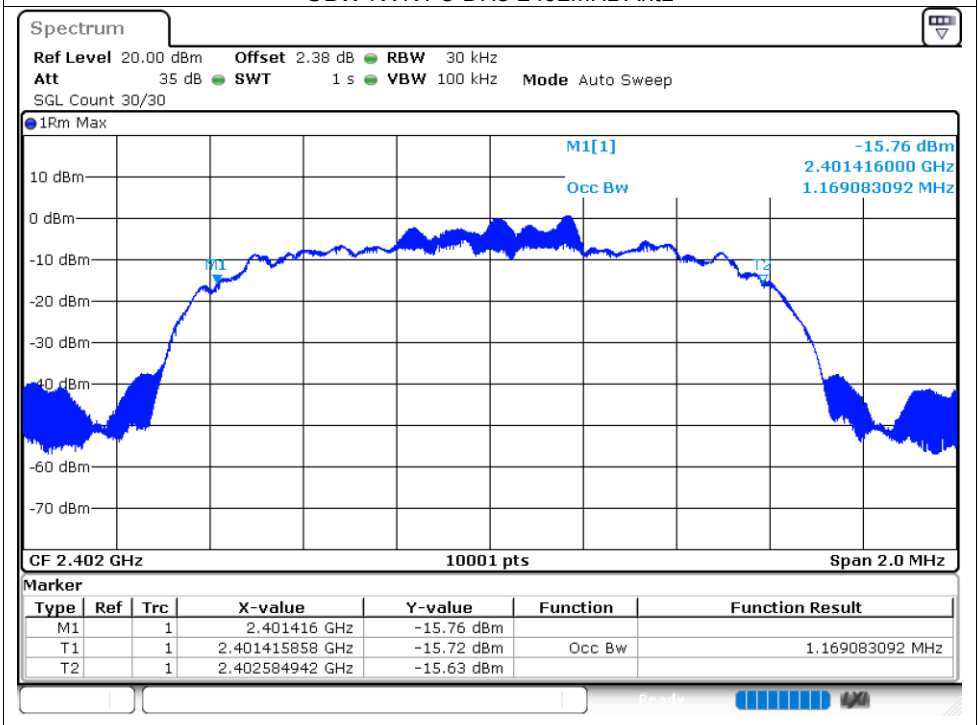
OBW NVNT 2-DH5 2402MHz Ant1



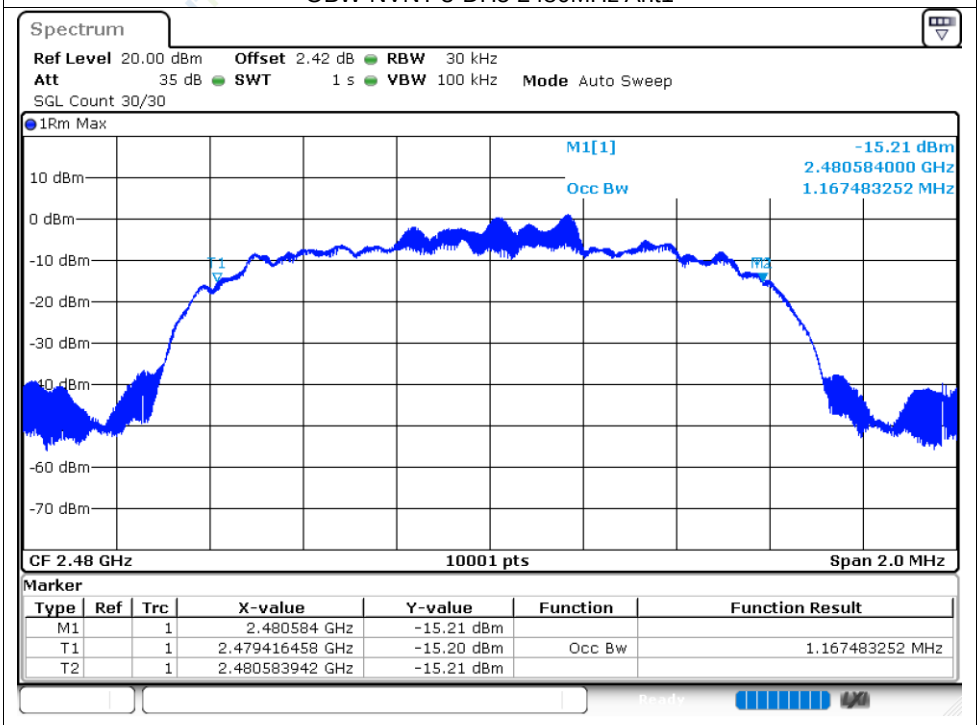
OBW NVNT 2-DH5 2480MHz Ant1



OBW NVNT 3-DH5 2402MHz Ant1



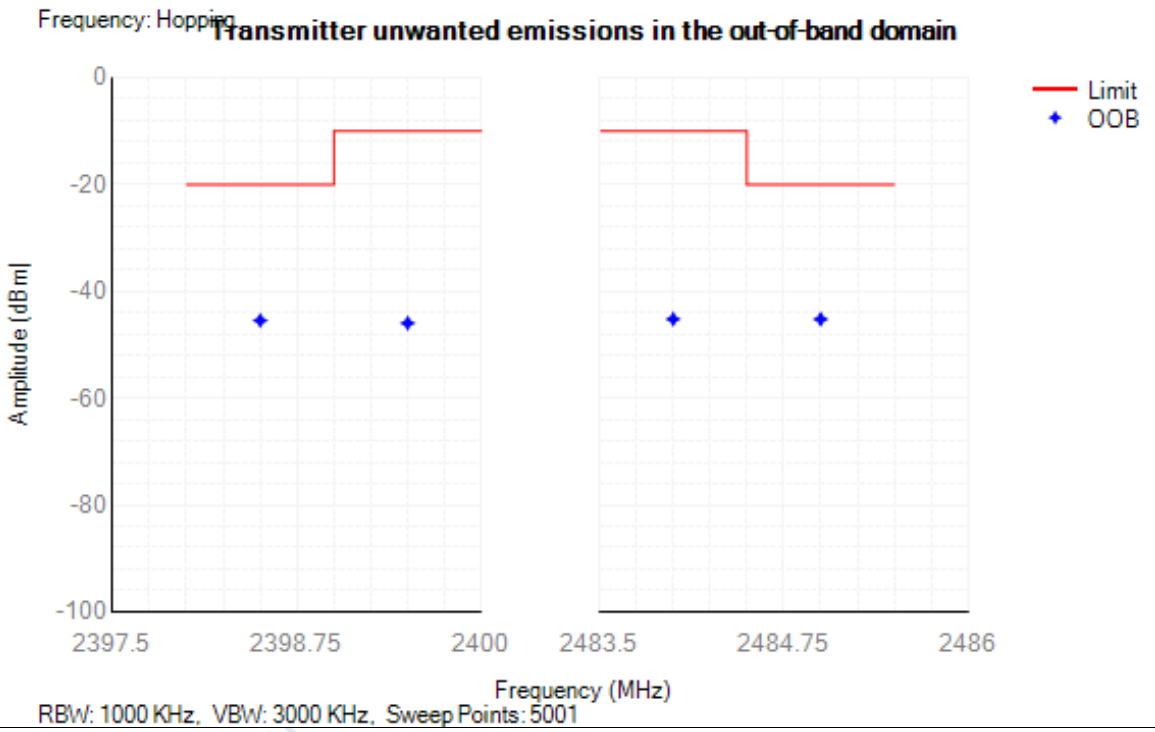
OBW NVNT 3-DH5 2480MHz Ant1



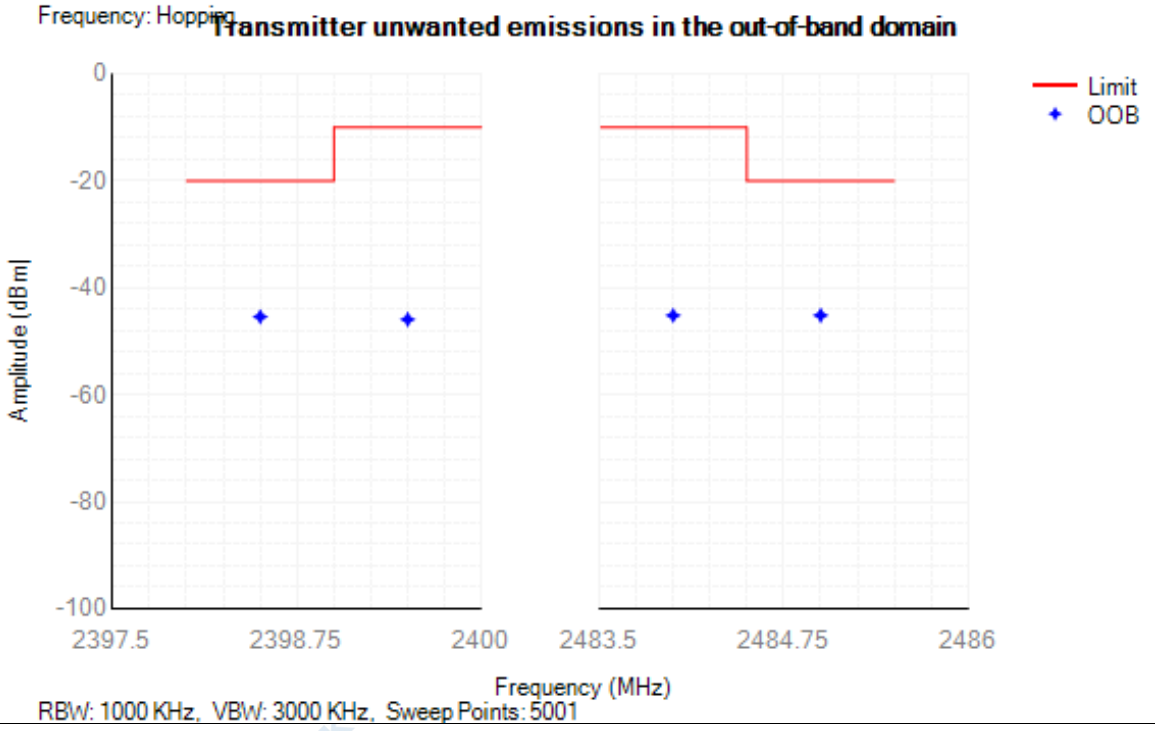
11.7 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	Hopping	Ant1	2399.5	-45.95	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-45.45	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-45.2	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-45.21	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2399.5	-45.92	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-45.42	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-45.17	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-45.16	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-45.96	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-45.48	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-45.23	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-45.22	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-45.91	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-45.43	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-45.18	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-45.2	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-45.93	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-45.45	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-45.18	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-45.19	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-45.88	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-45.41	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-45.16	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-45.14	-20	Pass

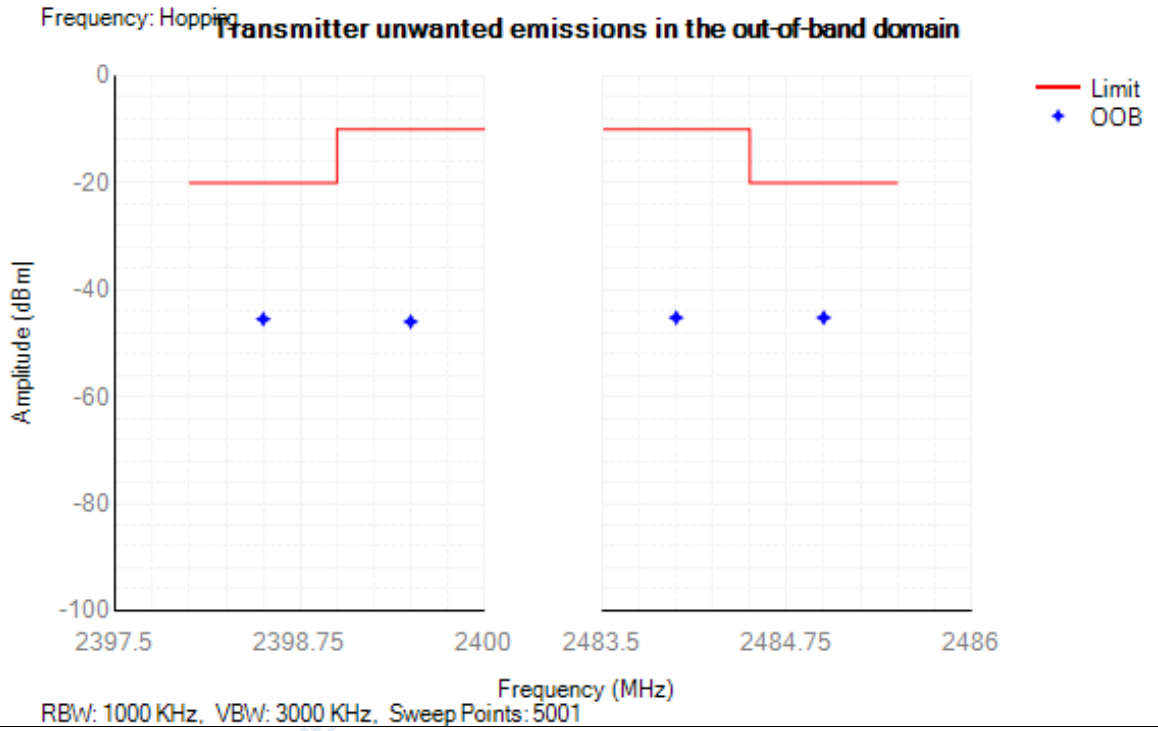
Test Graphs
Tx. Emissions OOB NVNT 1-DH5 2402MHz Ant1



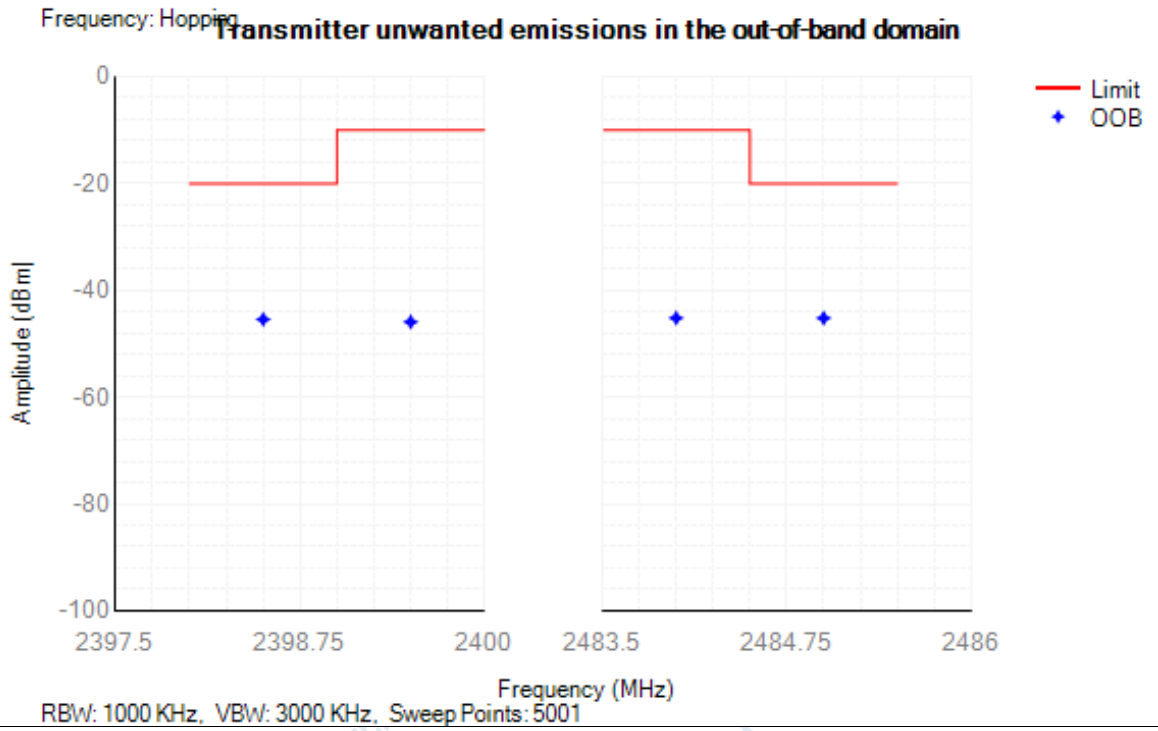
Tx. Emissions OOB NVNT 1-DH5 2480MHz Ant1



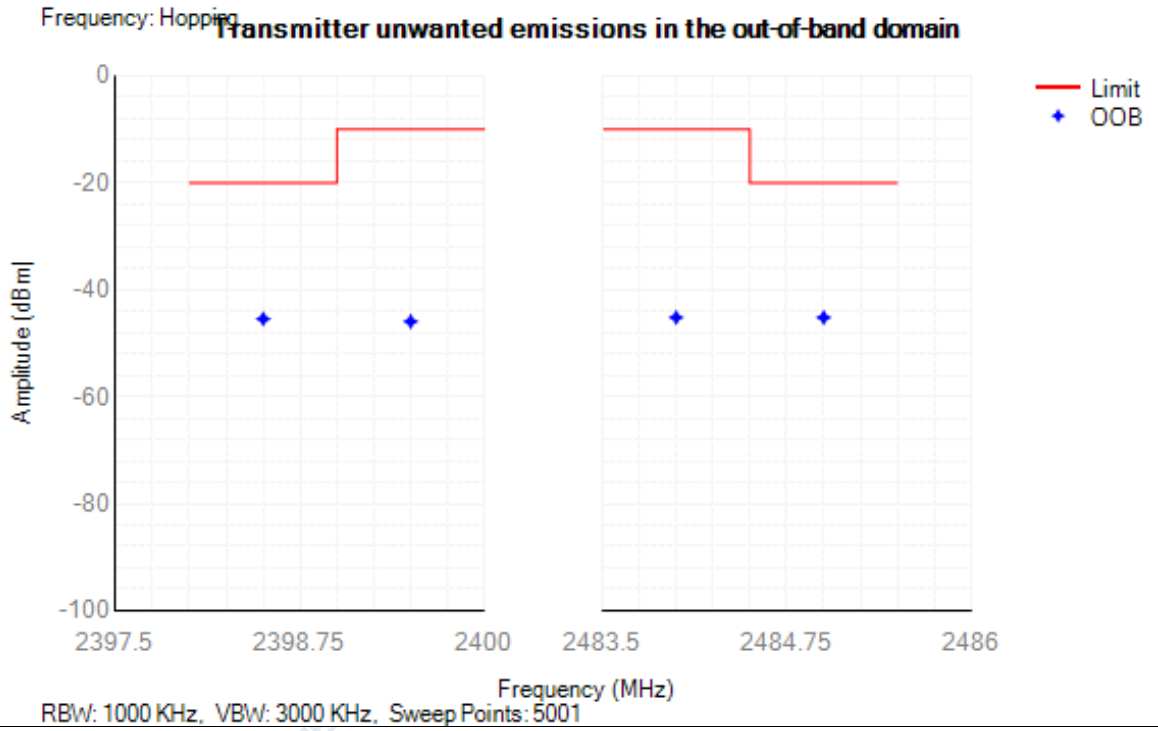
Tx. Emissions OOB NVNT 2-DH5 2402MHz Ant1



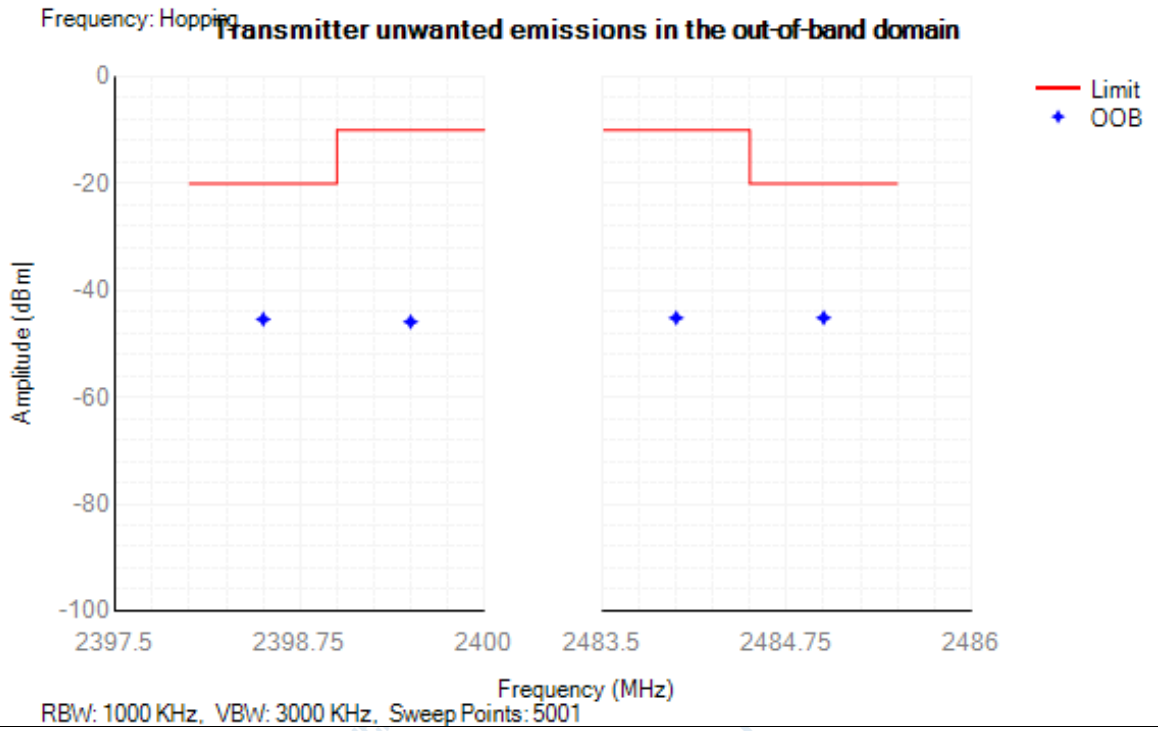
Tx. Emissions OOB NVNT 2-DH5 2480MHz Ant1



Tx. Emissions OOB NVNT 3-DH5 2402MHz Ant1



Tx. Emissions OOB NVNT 3-DH5 2480MHz Ant1

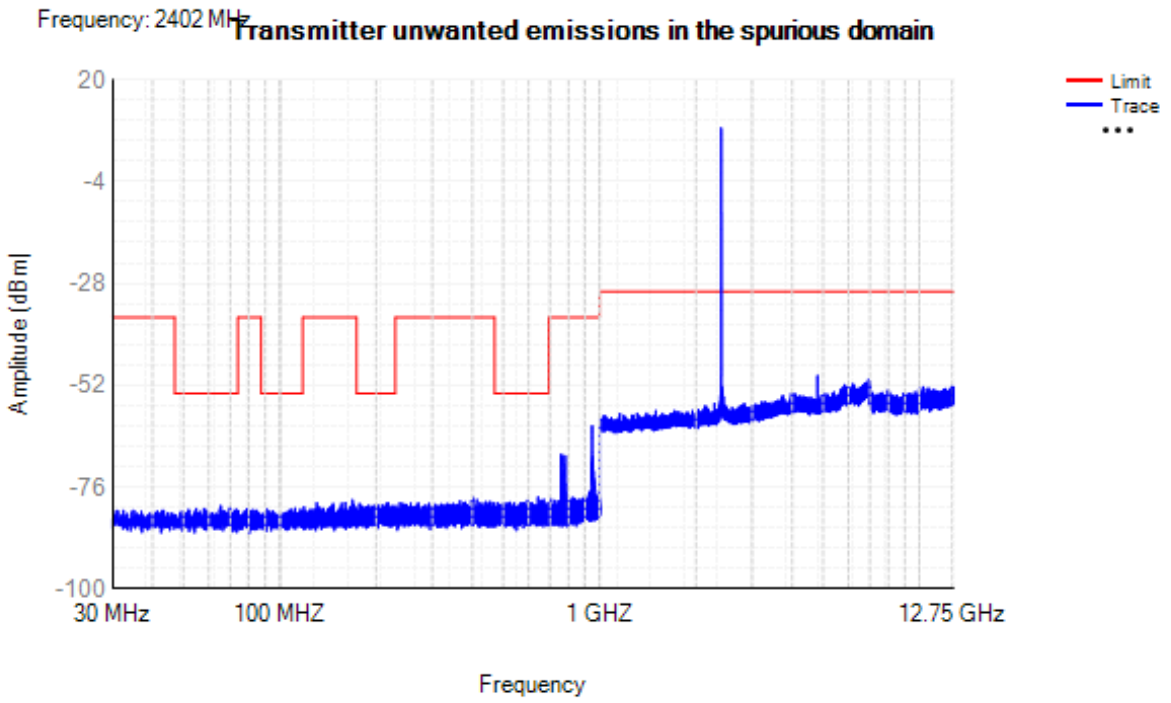


11.8 Transmitter unwanted emissions in the spurious domain

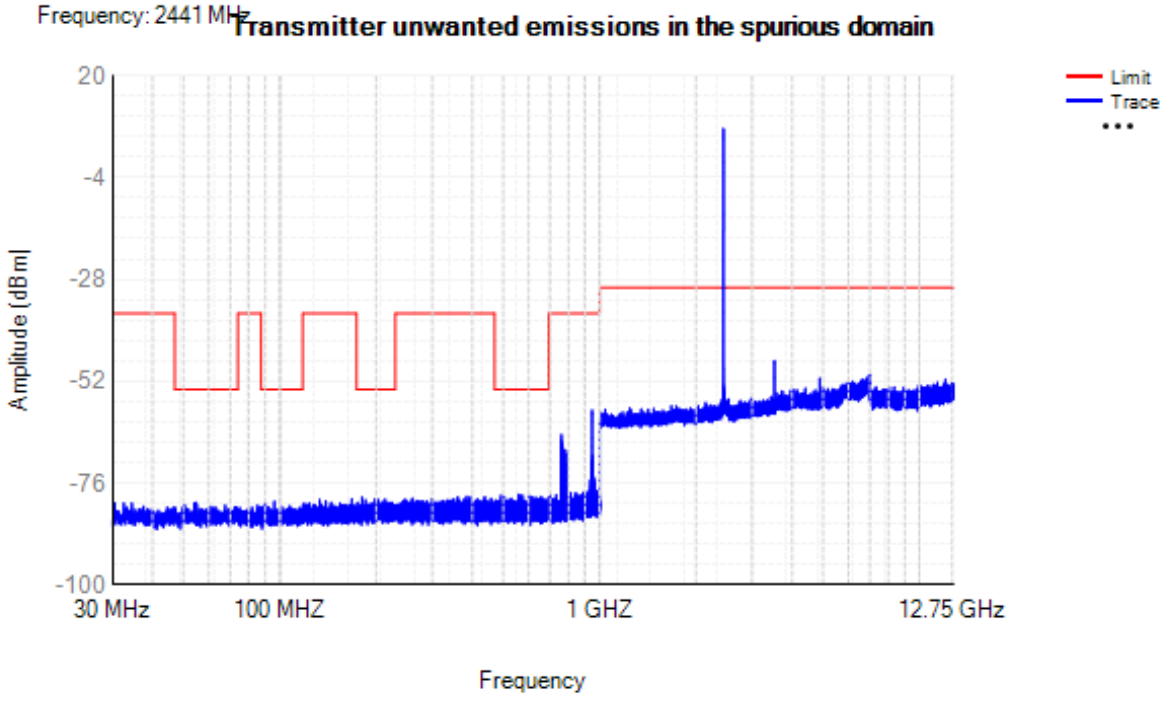
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	30 -47	32.45	-81.48	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	47 -74	65.45	-80.39	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	74 -87.5	78.95	-81.11	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	87.5 -118	111.65	-80.95	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	118 -174	168.95	-79.02	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	174 -230	218.00	-79.67	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	230 -470	404.00	-78.50	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	470 -694	641.55	-78.31	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	694 -1000	948.20	-61.57	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	1000 -2398	2397.50	-52.47	NA	-30	Pass
NVNT	1-DH5	2402	Ant1	2485.5 -12750	4804.50	-49.76	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	30 -47	34.50	-80.71	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	47 -74	54.80	-80.52	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	74 -87.5	85.25	-81.21	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	87.5 -118	96.15	-80.30	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	118 -174	167.95	-79.72	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	174 -230	180.80	-79.31	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	230 -470	383.95	-79.10	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	470 -694	559.20	-78.62	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	694 -1000	948.20	-58.82	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	1000 -2398	2144.00	-57.02	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	2485.5 -12750	3523.00	-47.14	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	30 -47	46.25	-80.42	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	47 -74	66.60	-80.41	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	74 -87.5	83.10	-81.13	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	87.5 -118	96.45	-79.92	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	118 -174	128.00	-79.29	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	174 -230	192.75	-79.93	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	230 -470	415.95	-78.53	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	470 -694	671.15	-78.15	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	694 -1000	948.15	-65.39	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	1000 -2398	1978.50	-57.15	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	2485.5 -12750	2559.00	-43.94	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	30 -47	31.40	-80.17	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	47 -74	69.65	-80.89	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	74 -87.5	77.05	-80.62	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	87.5 -118	93.80	-80.32	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	118 -174	162.30	-80.01	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	174 -230	209.70	-79.37	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	230 -470	299.95	-78.83	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	470 -694	640.35	-78.59	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	694 -1000	948.25	-56.03	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	1000 -2398	2397.50	-53.75	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	2485.5 -12750	6887.00	-50.96	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	30 -47	33.40	-80.20	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	47 -74	71.45	-81.54	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	74 -87.5	84.05	-80.98	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	87.5 -118	117.15	-80.54	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	118 -174	138.35	-79.43	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	174 -230	217.30	-79.86	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	230 -470	325.25	-79.36	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	470 -694	642.45	-78.79	NA	-54	Pass

NVNT	2-DH5	2441	Ant1	694 -1000	948.25	-60.64	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	1000 -2398	2004.00	-56.92	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	2485.5 -12750	2573.00	-48.85	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	30 -47	38.85	-81.30	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	47 -74	72.90	-80.73	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	74 -87.5	86.35	-80.98	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	87.5 -118	94.15	-80.67	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	118 -174	156.50	-79.78	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	174 -230	186.45	-79.01	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	230 -470	420.60	-79.06	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	470 -694	552.10	-78.65	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	694 -1000	948.25	-61.08	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	1000 -2398	1746.50	-57.30	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	2485.5 -12750	6970.00	-50.14	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	30 -47	35.15	-81.16	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	47 -74	63.35	-80.00	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	74 -87.5	77.50	-81.28	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	87.5 -118	92.90	-79.77	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	118 -174	162.00	-79.71	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	174 -230	182.65	-79.37	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	230 -470	367.20	-78.77	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	470 -694	624.55	-78.73	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	694 -1000	948.25	-61.80	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	1000 -2398	2396.00	-54.16	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	2485.5 -12750	4803.50	-49.69	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	30 -47	45.40	-81.23	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	47 -74	65.65	-80.53	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	74 -87.5	84.50	-80.02	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	87.5 -118	108.40	-79.75	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	118 -174	168.90	-79.55	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	174 -230	210.10	-79.55	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	230 -470	455.20	-79.02	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	470 -694	563.20	-78.84	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	694 -1000	948.25	-60.78	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	1000 -2398	2295.50	-56.99	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	2485.5 -12750	6950.50	-50.46	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	30 -47	34.50	-80.98	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	47 -74	69.20	-80.34	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	74 -87.5	81.25	-80.99	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	87.5 -118	109.15	-80.64	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	118 -174	133.75	-79.71	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	174 -230	189.80	-78.70	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	230 -470	323.50	-79.00	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	470 -694	585.60	-78.09	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	694 -1000	948.20	-63.65	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	1000 -2398	2384.00	-56.99	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	2485.5 -12750	6993.00	-50.66	NA	-30	Pass

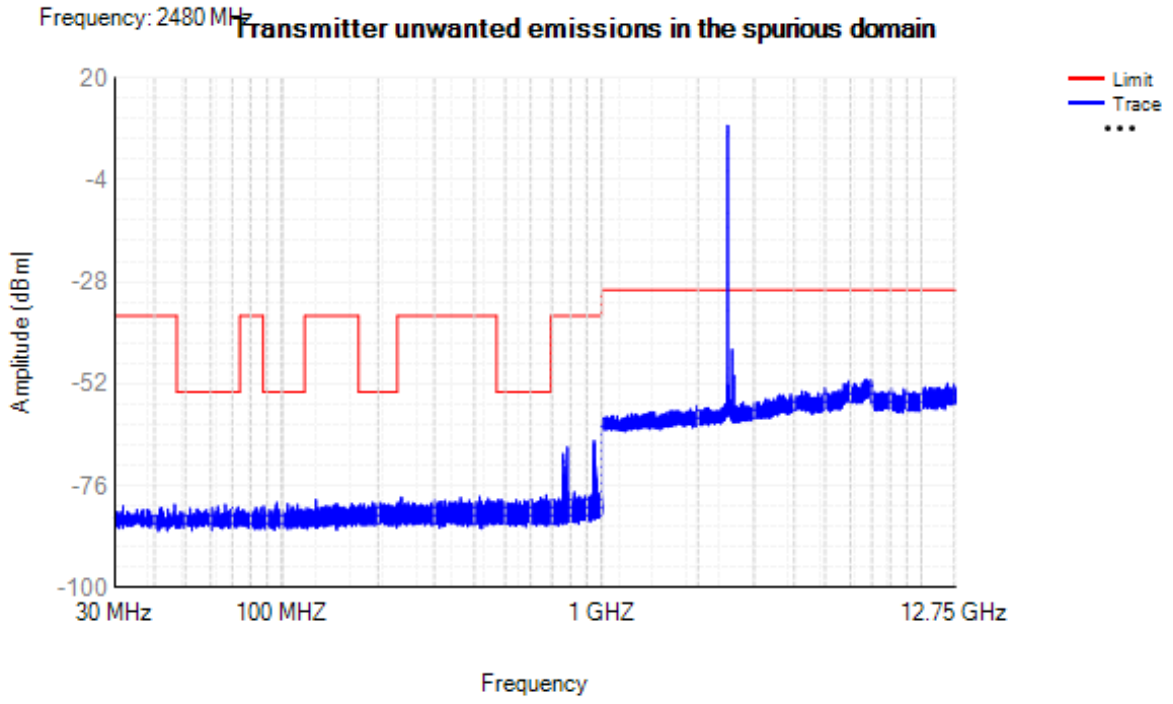
Test Graphs
Tx. Spurious NVNT 1-DH5 2402MHz Ant1



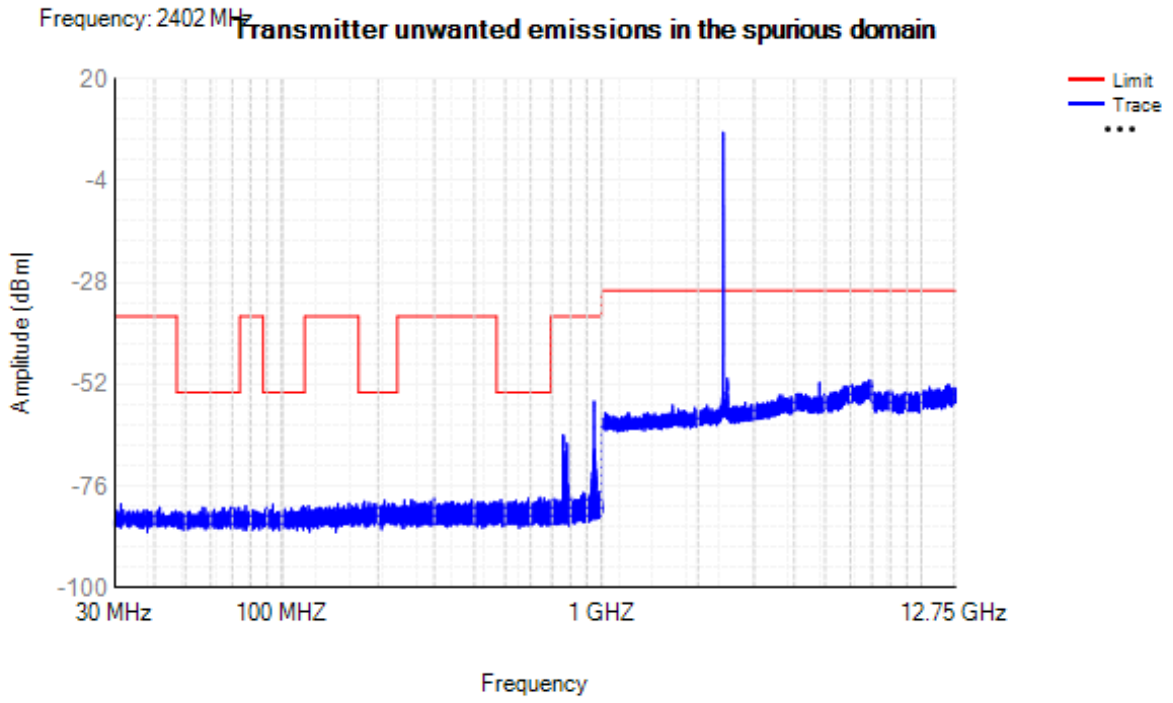
Tx. Spurious NVNT 1-DH5 2441MHz Ant1



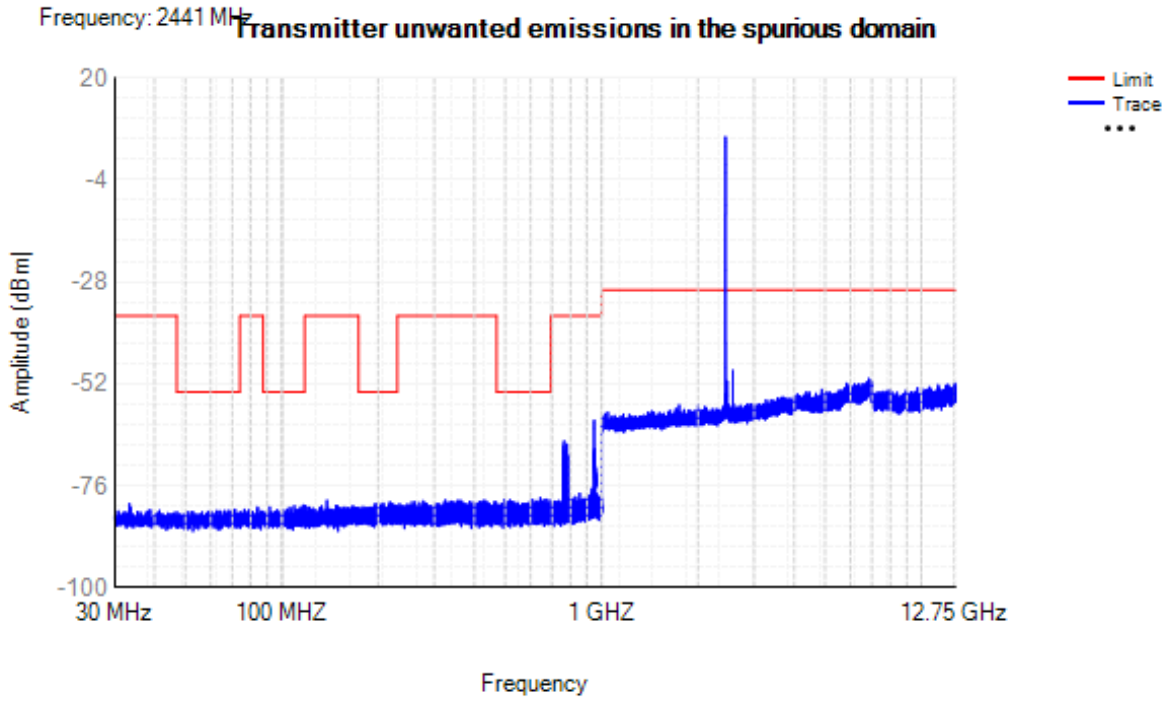
Tx. Spurious NVNT 1-DH5 2480MHz Ant1



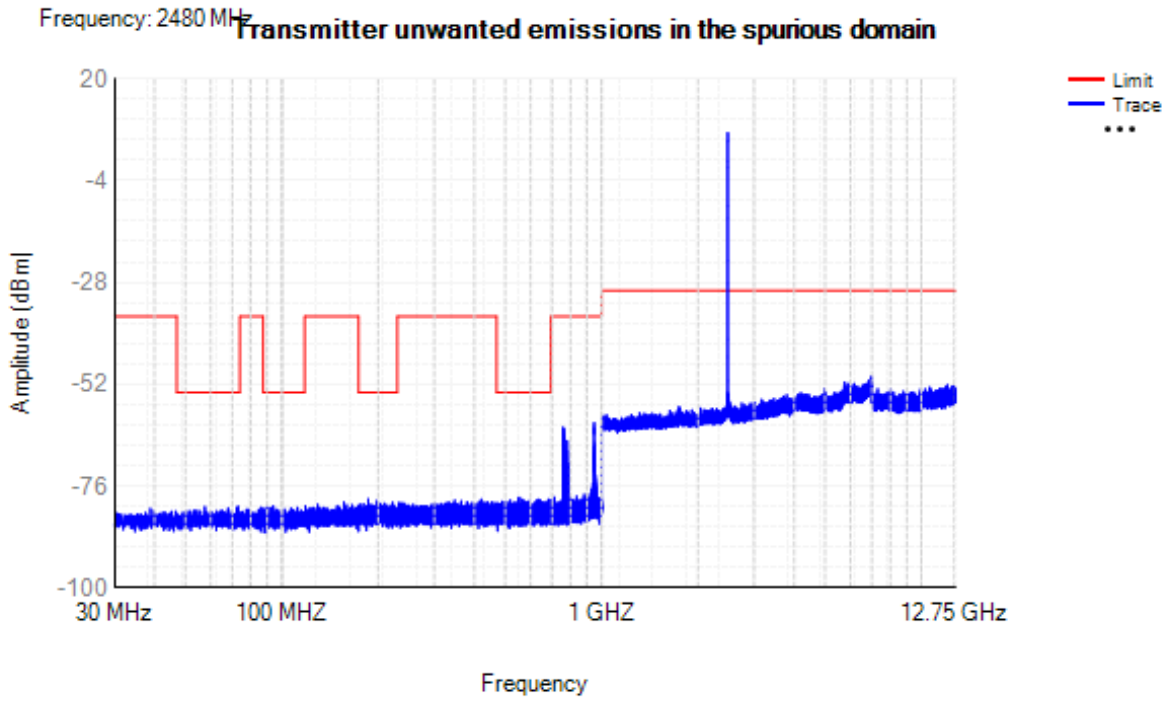
Tx. Spurious NVNT 2-DH5 2402MHz Ant1



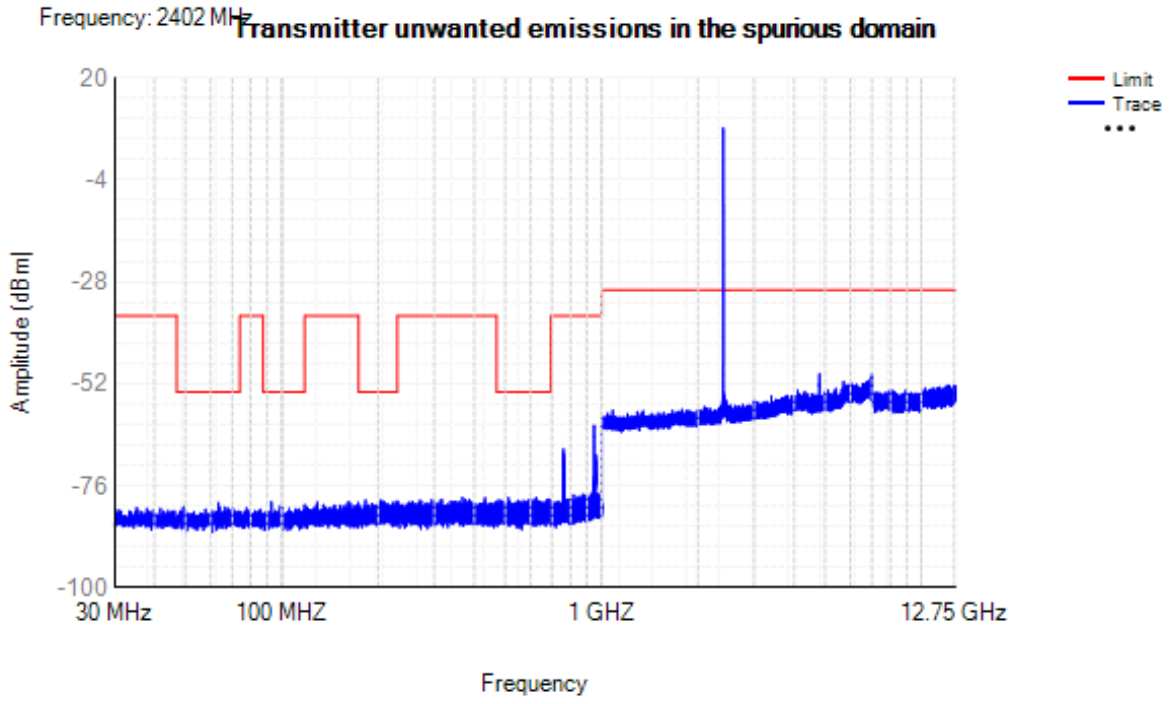
Tx. Spurious NVNT 2-DH5 2441MHz Ant1



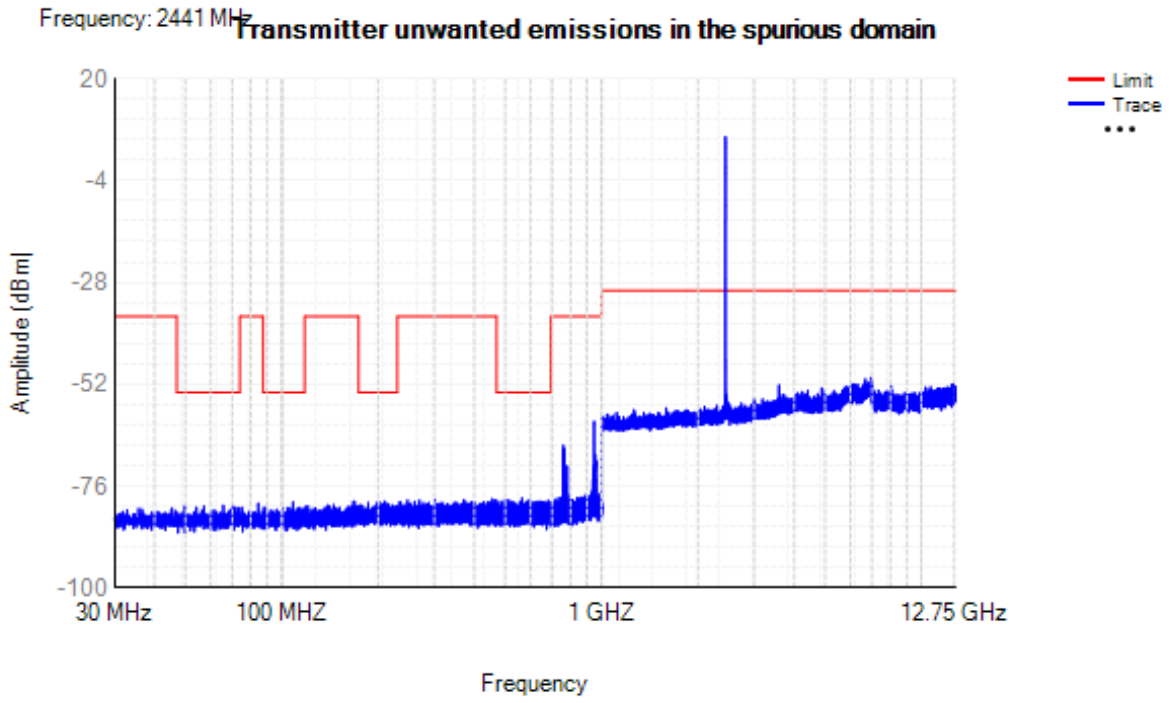
Tx. Spurious NVNT 2-DH5 2480MHz Ant1



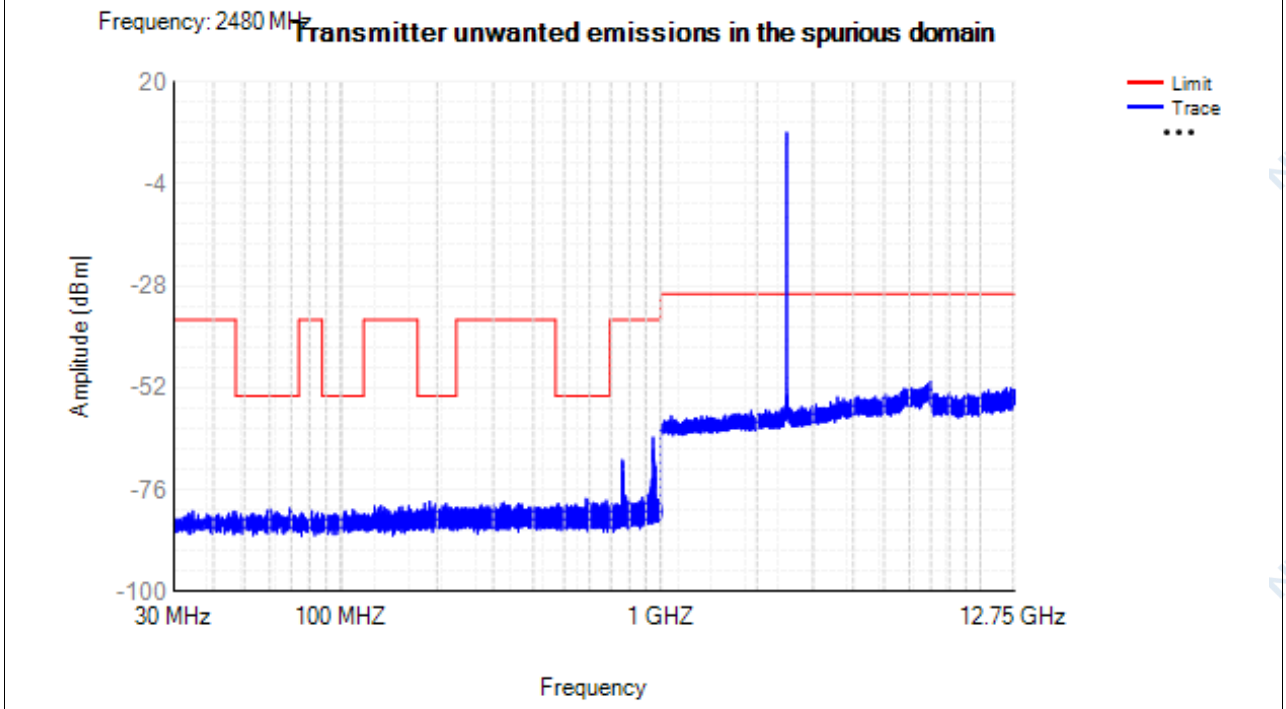
Tx. Spurious NVNT 3-DH5 2402MHz Ant1



Tx. Spurious NVNT 3-DH5 2441MHz Ant1



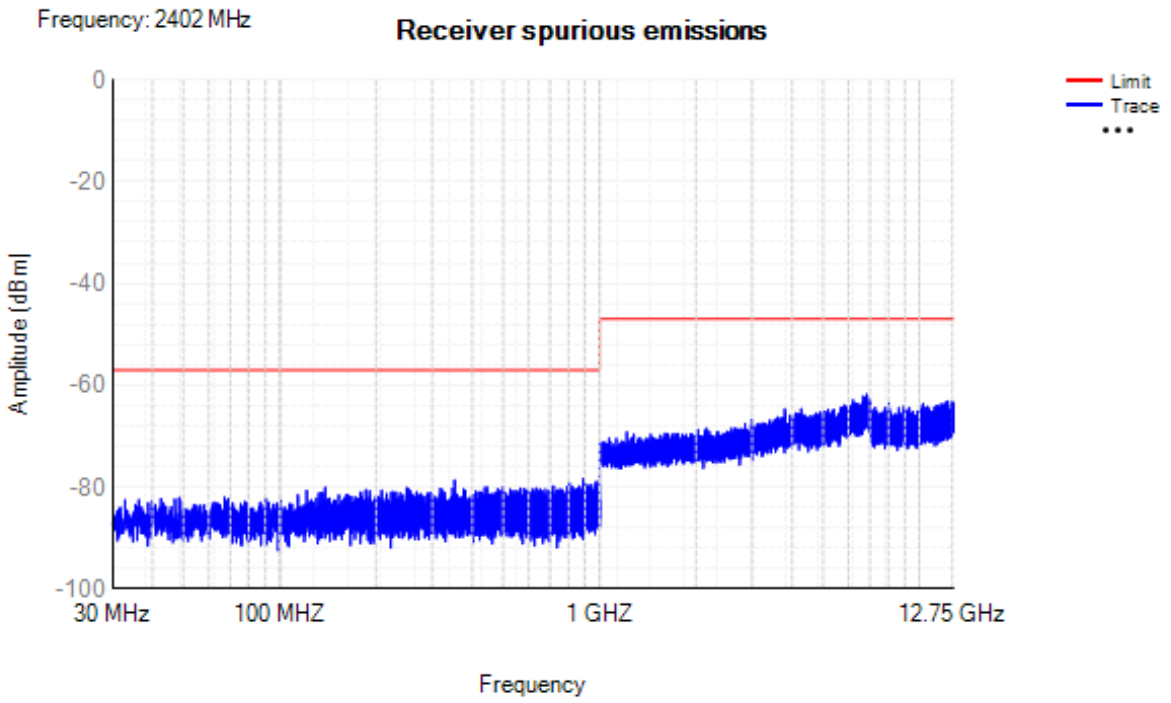
Tx. Spurious NVNT 3-DH5 2480MHz Ant1



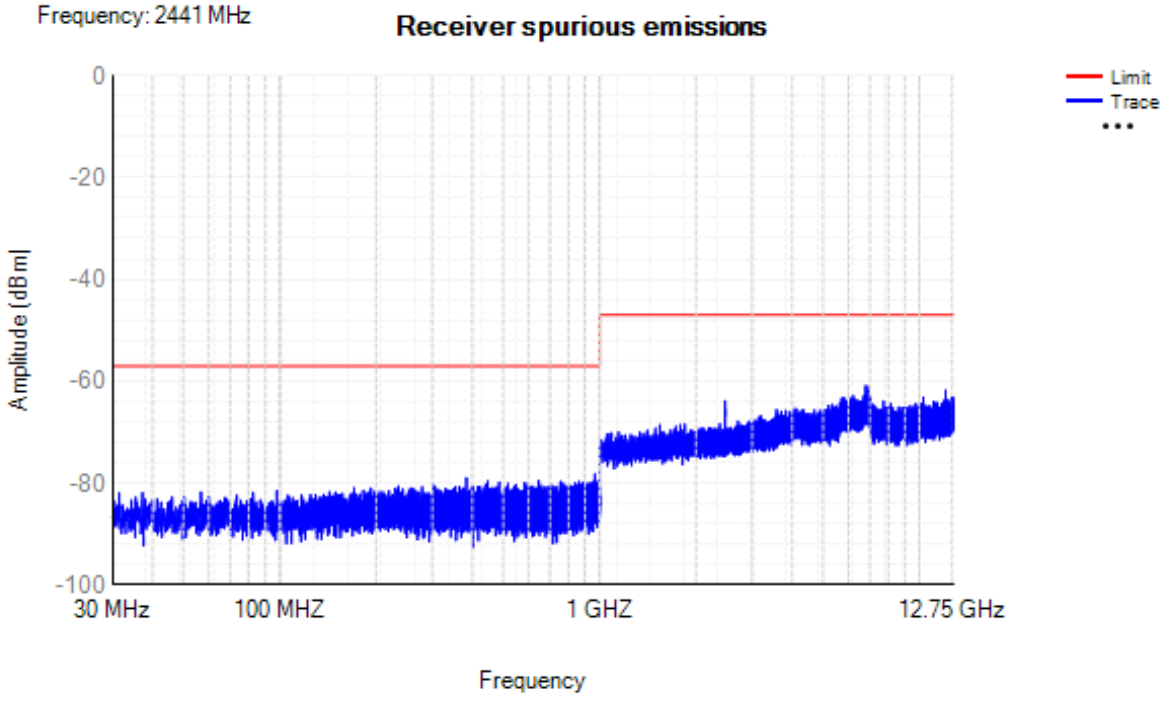
11.9 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	30 -1000	892.1	-78.29	NA	-57	Pass
NVNT	1-DH5	2402	Ant1	1000 -12750	6850.5	-61.81	NA	-47	Pass
NVNT	1-DH5	2441	Ant1	30 -1000	967.35	-78.18	NA	-57	Pass
NVNT	1-DH5	2441	Ant1	1000 -12750	6787.5	-60.91	NA	-47	Pass
NVNT	1-DH5	2480	Ant1	30 -1000	829.05	-78.31	NA	-57	Pass
NVNT	1-DH5	2480	Ant1	1000 -12750	6887	-62.49	NA	-47	Pass
NVNT	2-DH5	2402	Ant1	30 -1000	307.75	-79.19	NA	-57	Pass
NVNT	2-DH5	2402	Ant1	1000 -12750	6896.5	-61.70	NA	-47	Pass
NVNT	2-DH5	2441	Ant1	30 -1000	955.7	-76.63	NA	-57	Pass
NVNT	2-DH5	2441	Ant1	1000 -12750	6963	-60.89	NA	-47	Pass
NVNT	2-DH5	2480	Ant1	30 -1000	964.2	-78.15	NA	-57	Pass
NVNT	2-DH5	2480	Ant1	1000 -12750	6993.5	-61.29	NA	-47	Pass
NVNT	3-DH5	2402	Ant1	30 -1000	967.25	-79.10	NA	-57	Pass
NVNT	3-DH5	2402	Ant1	1000 -12750	6847	-62.13	NA	-47	Pass
NVNT	3-DH5	2441	Ant1	30 -1000	979.4	-78.06	NA	-57	Pass
NVNT	3-DH5	2441	Ant1	1000 -12750	6843	-61.36	NA	-47	Pass
NVNT	3-DH5	2480	Ant1	30 -1000	990.65	-77.56	NA	-57	Pass
NVNT	3-DH5	2480	Ant1	1000 -12750	6838	-61.38	NA	-47	Pass

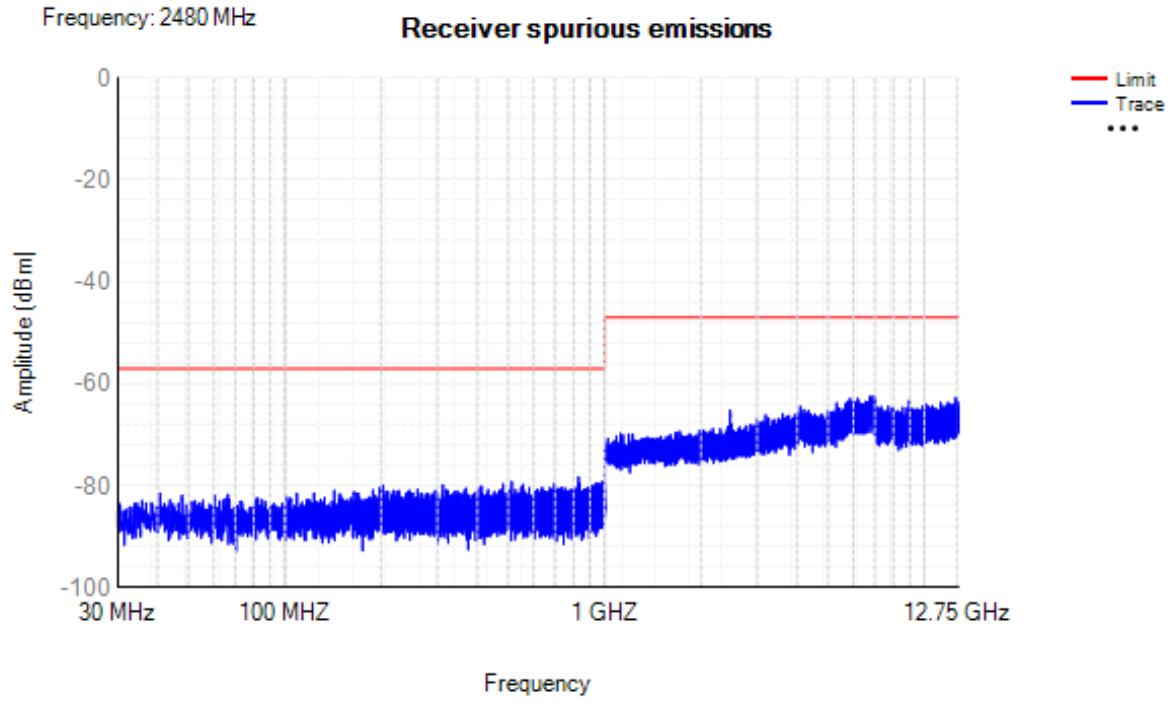
Test Graphs
Rx. Spurious NVNT 1-DH5 2402MHz Ant1



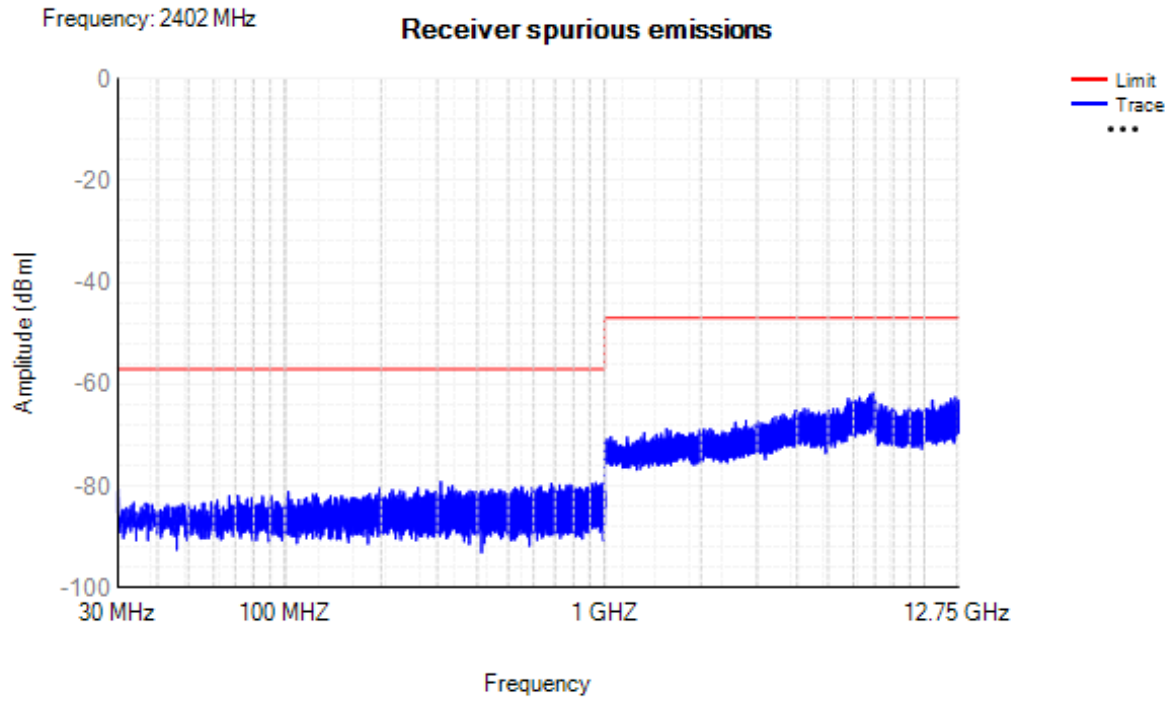
Rx. Spurious NVNT 1-DH5 2441MHz Ant1



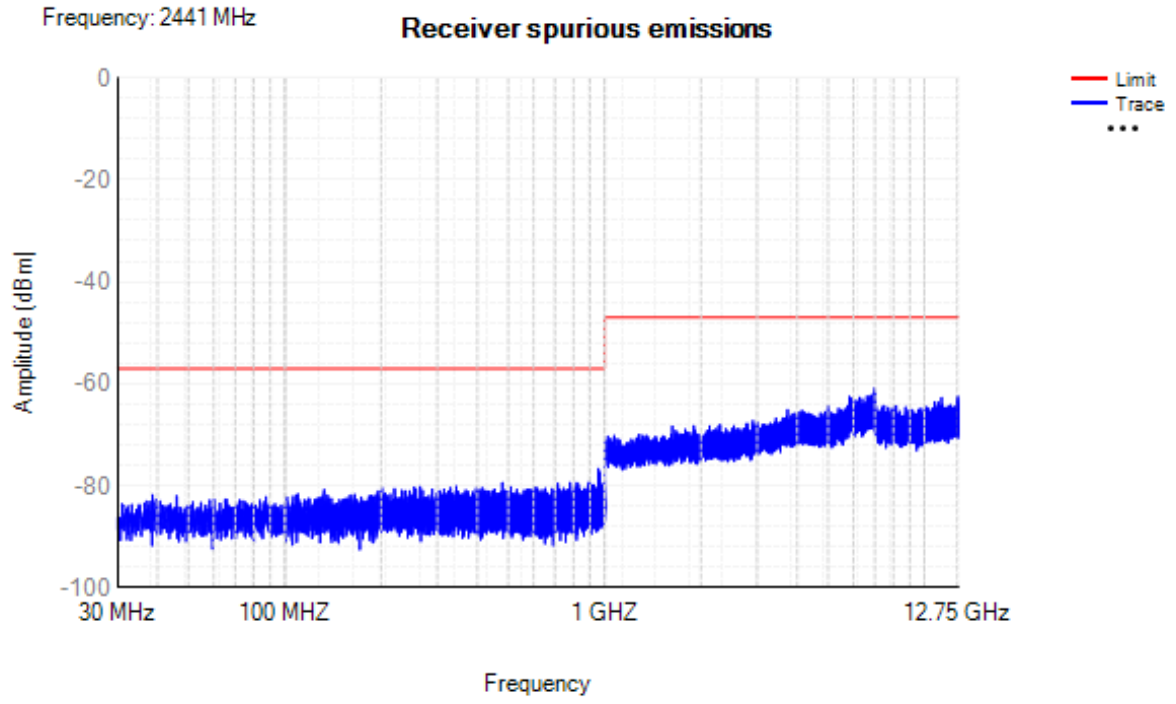
Rx. Spurious NVNT 1-DH5 2480MHz Ant1



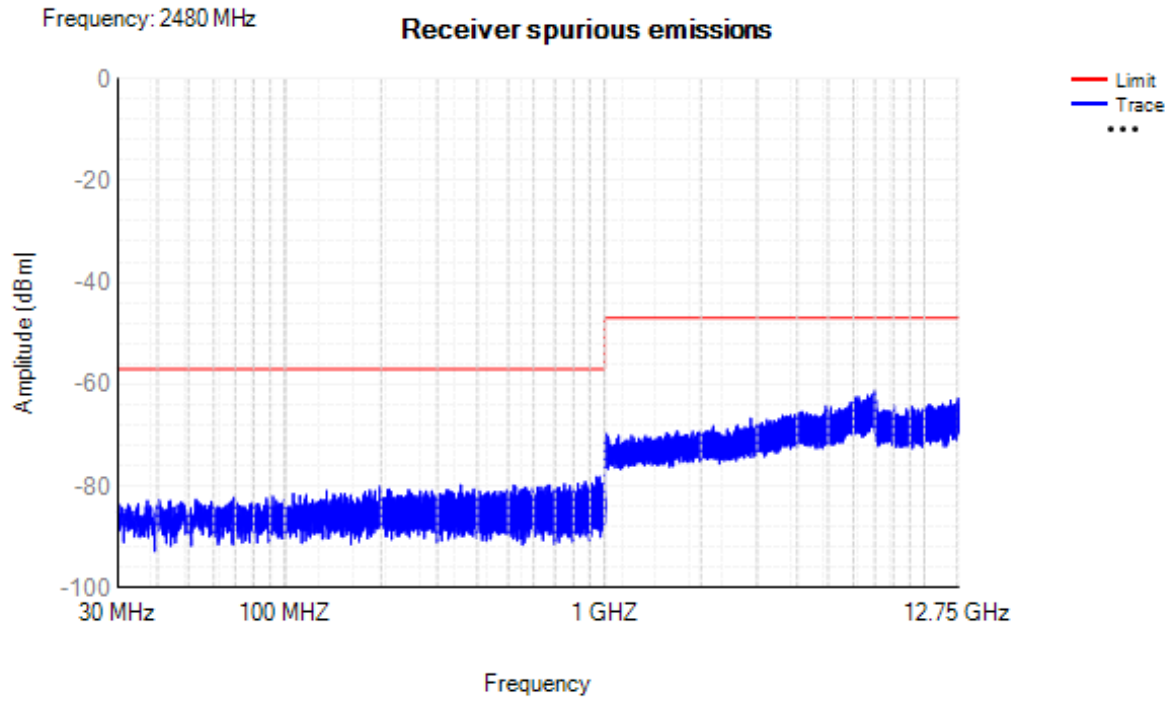
Rx. Spurious NVNT 2-DH5 2402MHz Ant1



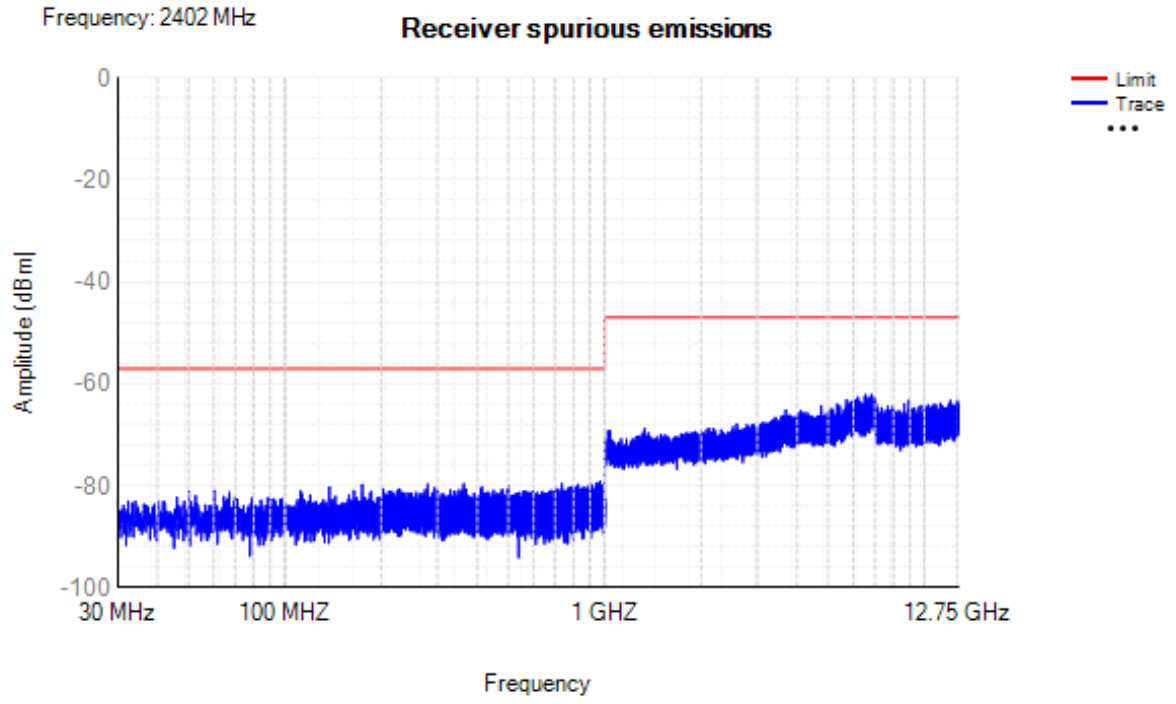
Rx. Spurious NVNT 2-DH5 2441MHz Ant1



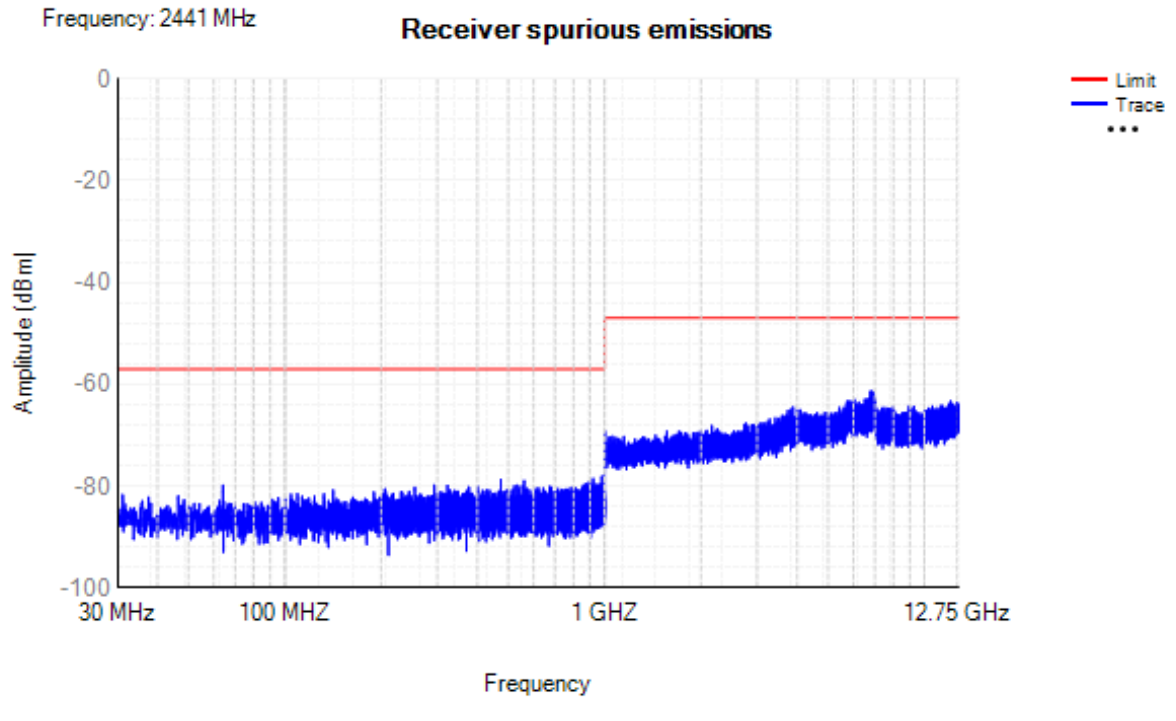
Rx. Spurious NVNT 2-DH5 2480MHz Ant1



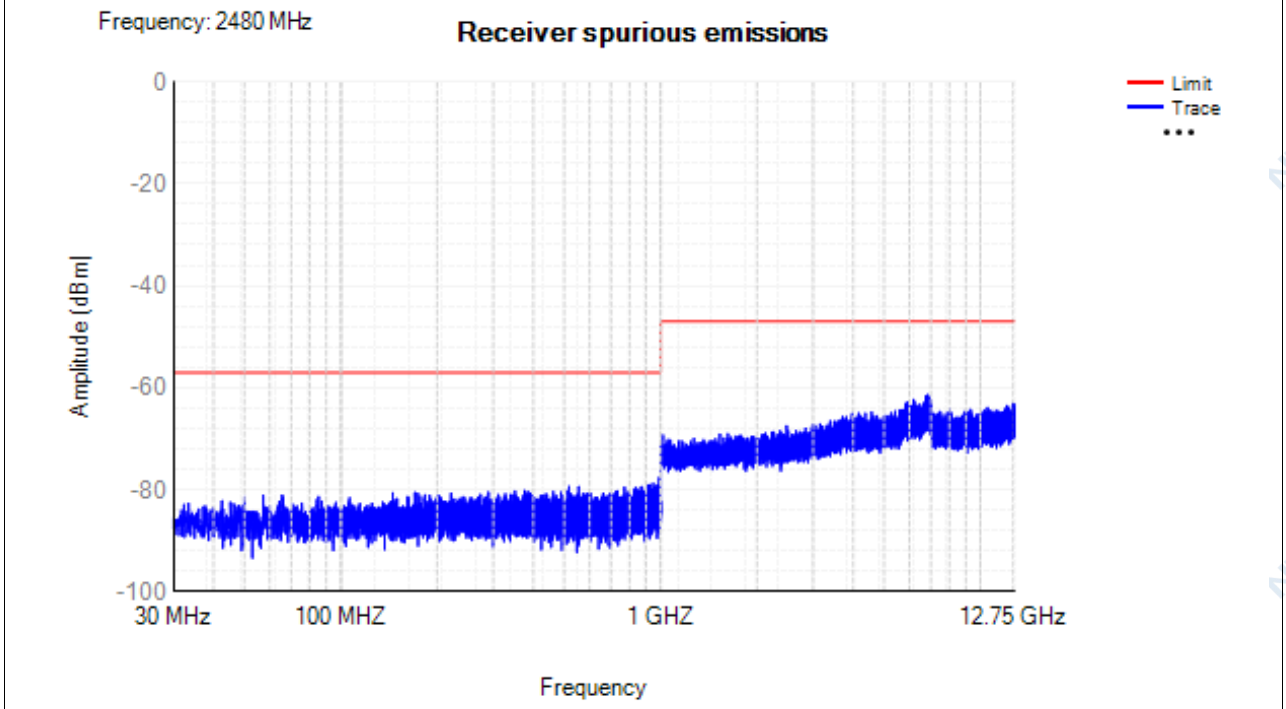
Rx. Spurious NVNT 3-DH5 2402MHz Ant1



Rx. Spurious NVNT 3-DH5 2441MHz Ant1



Rx. Spurious NVNT 3-DH5 2480MHz Ant1

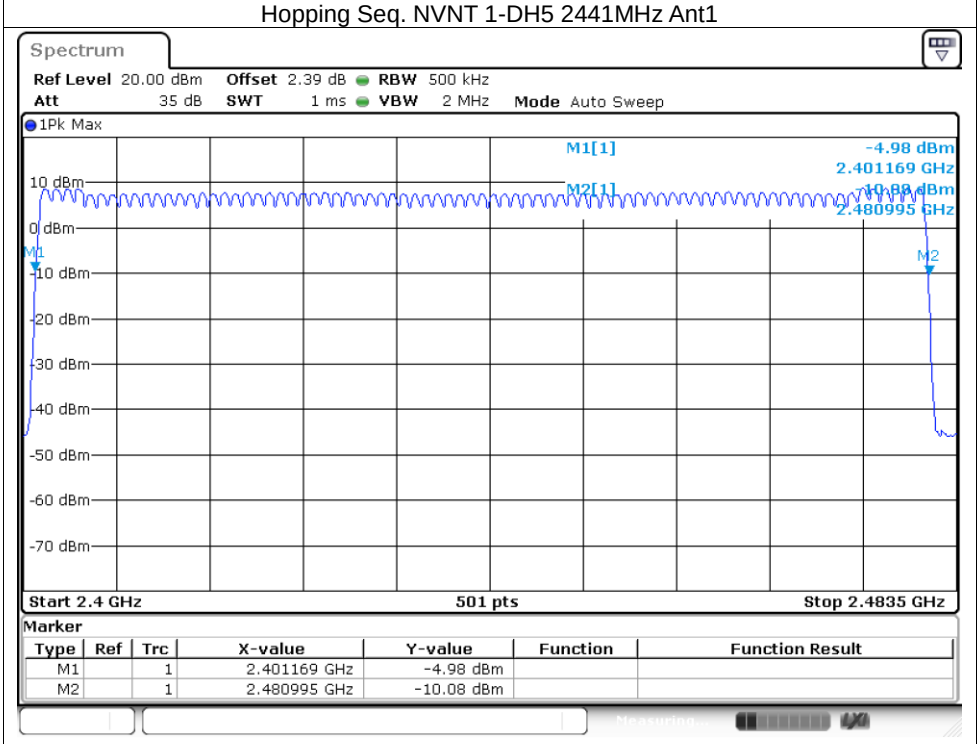


11.10 Hopping Sequence

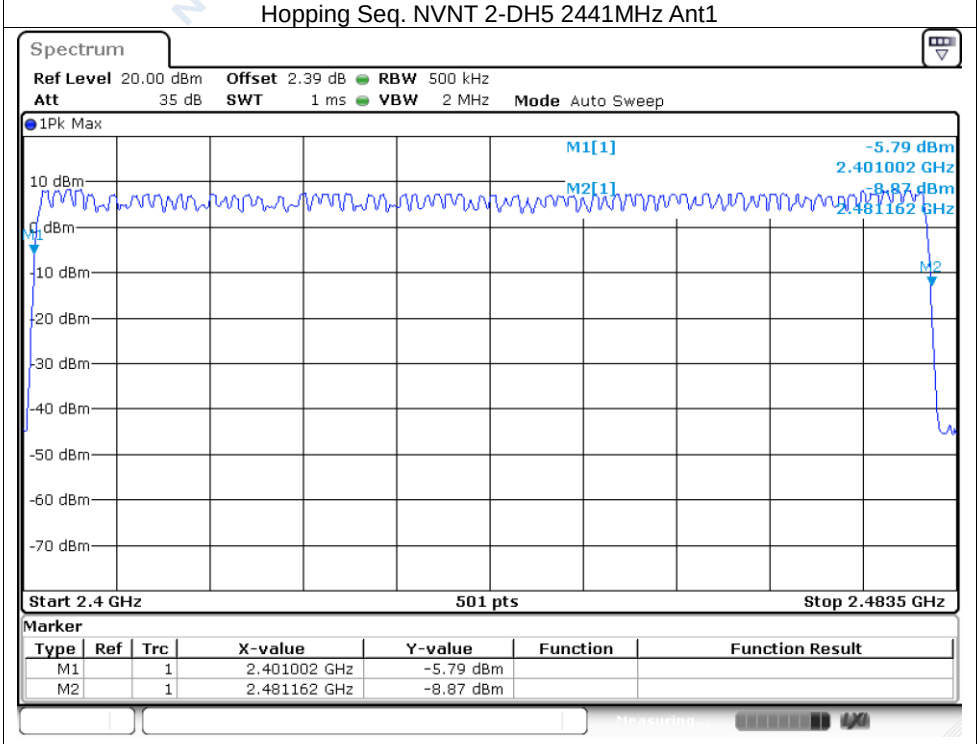
Condition	Mode	Antenna	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	Ant1	79	15	95.6	70	Pass
NVNT	2-DH5	Ant1	79	15	96	70	Pass
NVNT	3-DH5	Ant1	79	15	96	70	Pass

Test Graphs

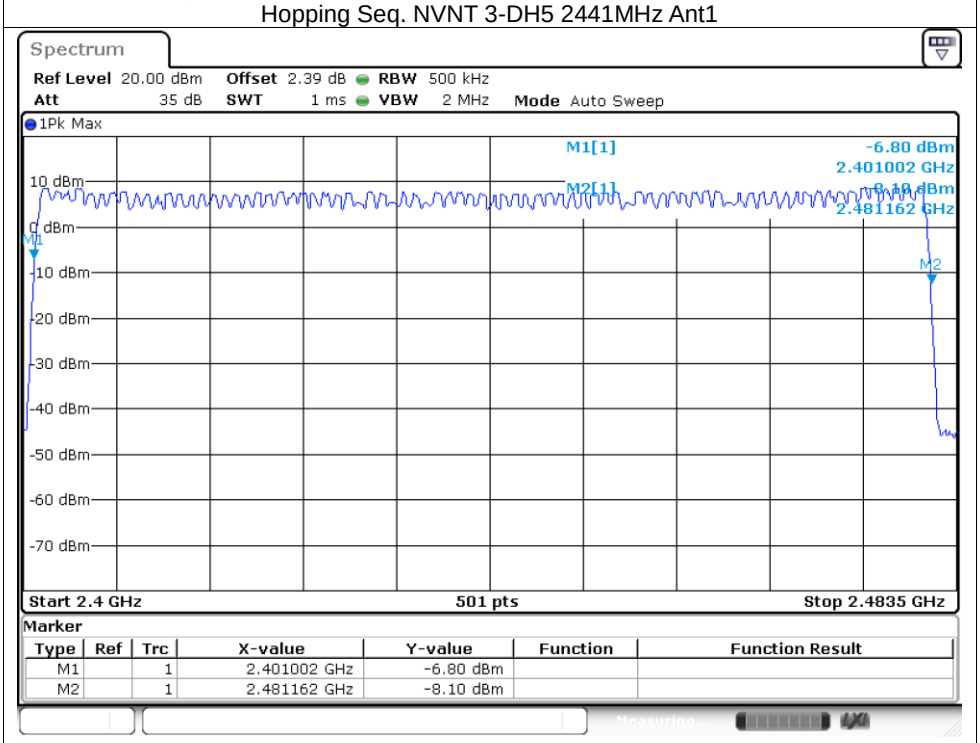
Hopping Seq. NVNT 1-DH5 2441MHz Ant1



Hopping Seq. NVNT 2-DH5 2441MHz Ant1

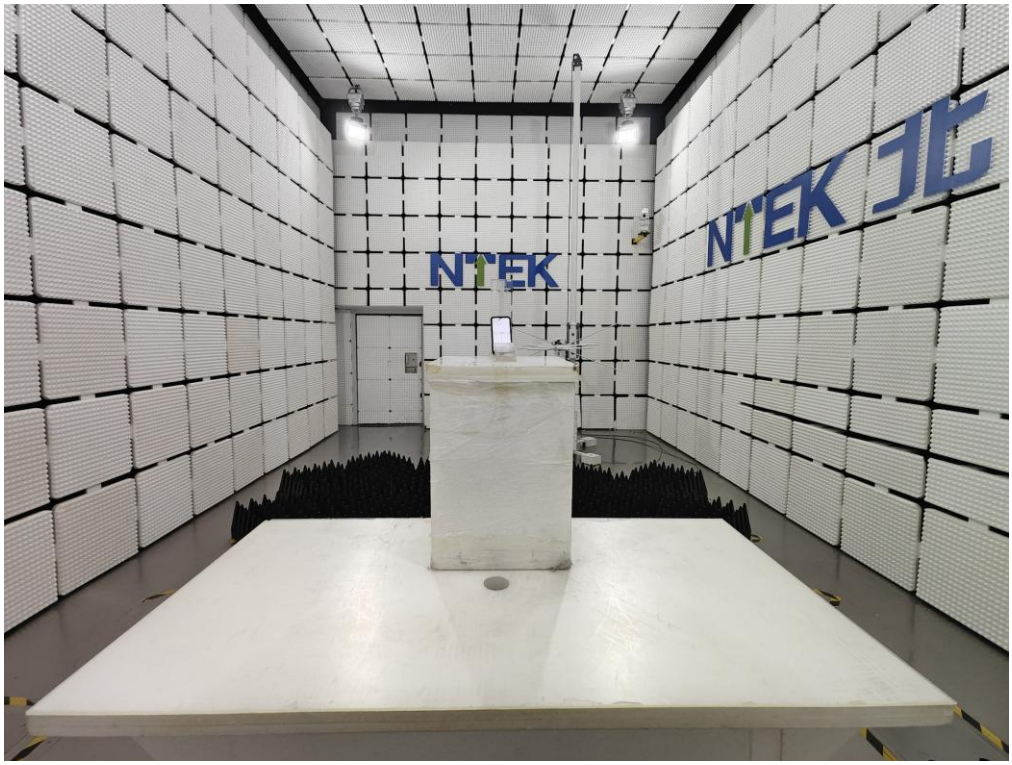


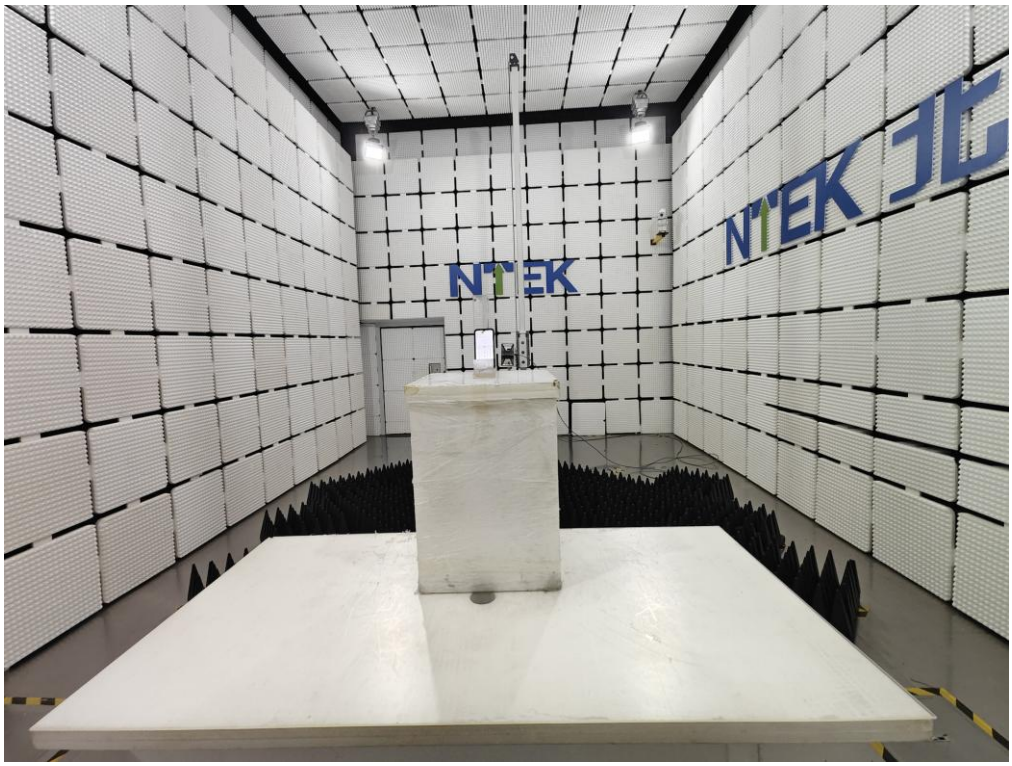
Hopping Seq. NVNT 3-DH5 2441MHz Ant1



12. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT