



RADIO TEST REPORT

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

Product : Smart Phone

Trade Mark : OUKITEL

Model Name : WP200 Pro

Family Model : WP200, WP200 S, WP200 Plus, WP200 Ultra,
WP200 TITAN, WP200 GT, WP210, WP210 S,
WP210 Pro, WP210 Plus, WP210 Ultra, WP210 GT

Report No. : S24110702501001

Prepared for

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TEST RESULT CERTIFICATION

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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 : WP200 Pro
Family Model : WP200, WP200 S, WP200 Plus, WP200 Ultra,
WP200 TITAN, WP200 GT, WP210, WP210 S,
WP210 Pro, WP210 Plus, WP210 Ultra, WP210 GT

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 S241107025011

Date of Test.....

Date (s) of performance of tests..... Nov. 07, 2024 ~ Jan. 02, 2025

Date of Issue..... Jan. 02, 2025

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

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Revision History

Report No.	Version	Description	Issued Date
S24110702501001	Rev.01	Initial issue of report	Jan. 02, 2025

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone	
Trade Mark	OUKITEK	
Model Name	WP200 Pro	
Family Model	WP200, WP200 S, WP200 Plus, WP200 Ultra, WP200 TITAN, WP200 GT, WP210, WP210 S, WP210 Pro, WP210 Plus, WP210 Ultra, WP210 GT	
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
	Modulatin Type:	GFSK,π/4-DQPSK,8-DPSK
	Modulation Technology:	FHSS
	Adaptive/non-adaptive	Adaptive equipment
	Receiver categories	Phone: 2 categories Watch: 2 categories
	Number Of Channel	79CH
	Antenna Designation:	Phone: FPC Antenna Watch: Wire Antenna
	Antenna Gain(Peak)	1.38dBi
	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-45WPD-EU Input: 100-240V~50/60Hz 1.5A Output(PD): 5.0V $\overline{\text{---}}$ 3.0A 15.0W or 9V $\overline{\text{---}}$ 3.0A 27.0W or 12.0V $\overline{\text{---}}$ 2.5A 30.0W or 15.0V $\overline{\text{---}}$ 2.0A 30.0W or 20.0V $\overline{\text{---}}$ 2.25A 45.0W MAX (PPS)5.0V-11.0V $\overline{\text{---}}$ 4.0A 44.0W MAX (PPS)5.0V-20.0V $\overline{\text{---}}$ 2.25A 45.0W MAX	
Battery	Phone: DC 3.87V, 8800mAh, 34.056Wh Watch: DC 3.8V, 150mAh, 0.57Wh	
Rating	Phone:DC 3.87V from battery or DC 5V/9V/12V/15V/20V from adapter Watch: DC 3.8V from battery	
I/O Ports	Refer to users manual	
Hardware Version	G3382P-ME-V1.1	
Software Version	V04	

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, $\pi/4$ -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: 351.238ms Maximum (Phone)
- The (average) Dwell Time: 350.537ms Maximum (Watch)

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: / .. μ s
- ☐ 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(Phone); GFSK(Watch)
- 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(Phone); 8-DPSK (Watch)
- Hopping Frequency Separation (only for FHSS equipment)
 $\pi/4$ -DQPSK (Phone); GFSK(Watch)
- Medium Utilization
N/A
- Adaptivity
N/A
- Receiver Blocking
8-DPSK (Phone); GFSK(Watch)
- Nominal Channel Bandwidth
8-DPSK (Phone); 8-DPSK (Watch)
- Transmitter unwanted emissions in the OOB domain
 $\pi/4$ -DQPSK (Phone); $\pi/4$ -DQPSK (Watch)
- Transmitter unwanted emissions in the spurious domain
8-DPSK (Phone); 8-DPSK (Watch)
- Receiver spurious emissions
GFSK(Phone); $\pi/4$ -DQPSK (Watch)

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: 1.199MHz(Phone); 1.194MHz(Watch);
- 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: FPC Antenna (Phone)

Wire Antenna (Watch)

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

Antenna Gain: 1.38 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(Phone)	1.38	5.07	
2(Watch)	1.38	2.42	
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(Phone); DC 3.8V(Watch)

In case of DC, indicate the type of power source

- ☐ Internal Power Supply
☒ External Power Supply or AC/DC adapter: DC 5V/9V/12V/15V/20V
☒ Battery: DC 3.87V(Phone); DC 3.8V(Watch)
☐ 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):

Phone: 8-DPSK (CH78) =0.98%

Watch: GFSK (CH00) =0.90%

1.3 TEST CONDITIONS

	Normal Test Conditions	Extreme Test Conditions
Temperature	15°C - 35°C	-10°C ~ 40°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	Phone: DC 3.87V Watch: DC 3.8V	/

Note:

- (1) The HT 40°C and LT -10°C was declared 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	$\pi/4$ -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

E-1
EUT

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	WP200 Pro	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 Xinfu 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	$\pm 5\%$
2	RF output Power,conducted	$\pm 1.5\text{dB}$
3	Power Spectral Density, conducted	$\pm 3\text{dB}$
4	Unwanted emissions, conducted	$\pm 3\text{dB}$
5	All emissions,radiated	$\pm 6\text{dB}$
6	Temperature	$\pm 3^{\circ}\text{C}$
7	Humidity	$\pm 3\%$
9	Time	$\pm 5\%$

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

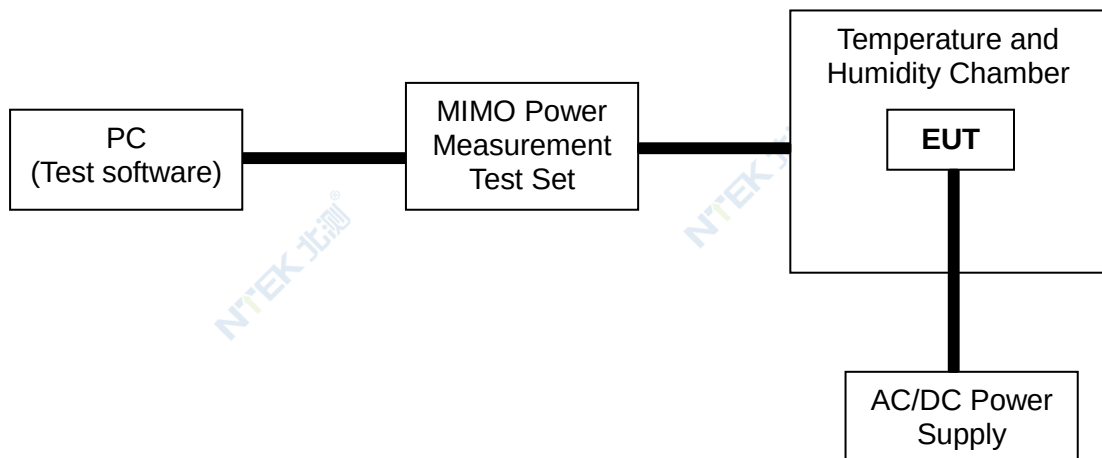
Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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 :	WP200 Pro
Temperature :	20°C	Relative Humidity :	55 %
Pressure :	1012 hPa	Test Voltage :	Phone: DC 3.87V Watch: DC 3.8V
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	$\leq 15 \text{ ms}$ [15 ms * the minimum number of hopping frequencies (N)]
☒ Adaptive frequency hopping systems	$\leq 400 \text{ ms}$ 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 maximum 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 :	WP200 Pro
Temperature :	26°C	Relative Humidity	60 %
Pressure :	1012 hPa	Test Voltage :	Phone: DC 3.87V Watch: DC 3.8V
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 stated 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 :	WP200 Pro
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	Phone: DC 3.87V Watch: DC 3.8V
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.

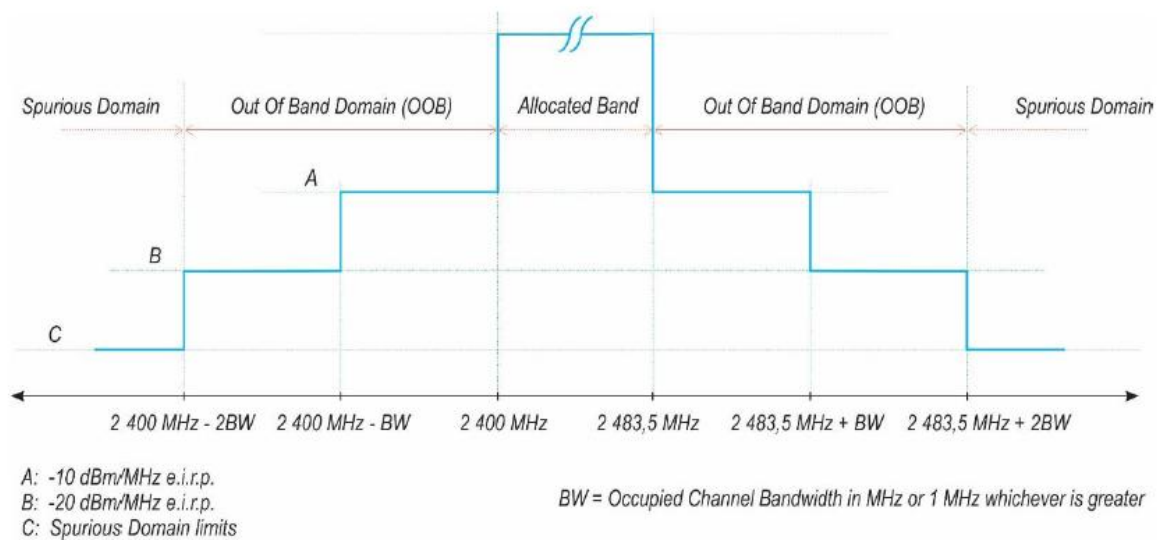


Figure 1: Transmit mask

6.2 TEST PROCEDURE

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

Measurement	
☒ Conducted measurement	☐ Radiated measurement

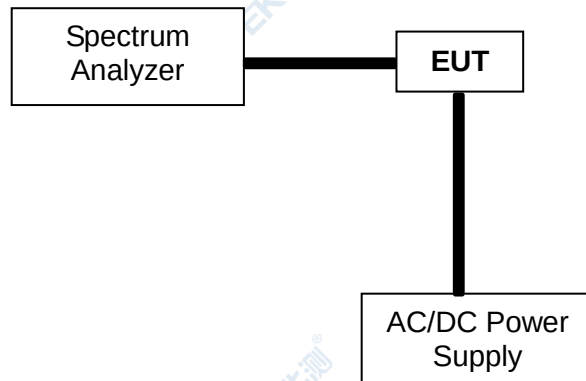
The setting of the Spectrum Analyzer

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 :	WP200 Pro
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	Phone: DC 3.87V Watch: DC 3.8V
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 occupied 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 :	WP200 Pro
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	Phone: DC 3.87V Watch: DC 3.8V
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

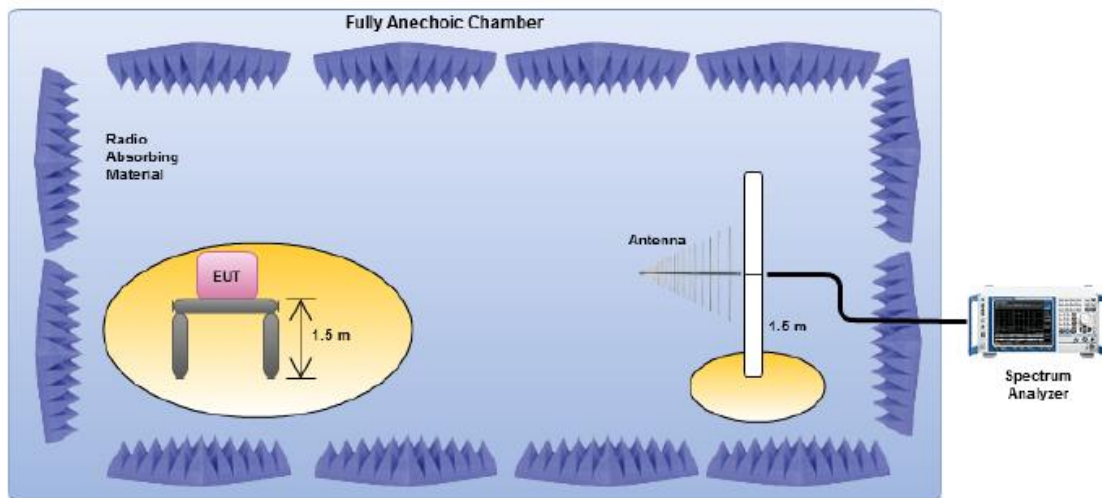
RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: DC 3.87V
Test Mode :	BT-GFSK (CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	46.231	-75.11	10.77	-64.34	-36.00	-28.34	peak
V	90.687	-75.79	11.26	-64.53	-54.00	-10.53	peak
V	224.518	-68.52	11.22	-57.30	-54.00	-3.30	peak
V	376.190	-72.16	11.19	-60.97	-36.00	-24.97	peak
V	669.047	-75.28	9.53	-65.75	-54.00	-11.75	peak
H	36.766	-76.97	10.45	-66.52	-36.00	-30.52	peak
H	107.818	-73.52	10.20	-63.32	-54.00	-9.32	peak
H	229.297	-68.28	10.83	-57.45	-54.00	-3.45	peak
H	314.477	-74.33	11.11	-63.22	-36.00	-27.22	peak
H	585.935	-74.68	11.03	-63.65	-54.00	-9.65	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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: 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	2194.160	-75.75	10.22	-65.53	-30.00	-35.53	peak
V	3760.034	-69.74	9.68	-60.06	-30.00	-30.06	peak
V	2815.285	-75.74	10.95	-64.79	-30.00	-34.79	peak
V	4078.912	-69.13	9.85	-59.28	-30.00	-29.28	peak
H	2418.448	-69.64	10.50	-59.14	-30.00	-29.14	peak
H	5039.869	-69.45	11.22	-58.23	-30.00	-28.23	peak
H	2533.947	-67.82	10.13	-57.69	-30.00	-27.69	peak
H	3200.728	-73.19	10.38	-62.81	-30.00	-32.81	peak
operation frequency:2441							
V	2838.119	-73.05	10.17	-62.88	-30.00	-32.88	peak
V	3742.860	-74.50	10.22	-64.28	-30.00	-34.28	peak
V	2985.807	-71.87	10.42	-61.45	-30.00	-31.45	peak
V	5720.937	-69.08	10.79	-58.29	-30.00	-28.29	peak
H	2419.733	-70.41	9.82	-60.59	-30.00	-30.59	peak
H	3405.269	-71.26	9.57	-61.69	-30.00	-31.69	peak
H	2023.811	-74.26	9.66	-64.60	-30.00	-34.60	peak
H	4970.646	-71.66	11.33	-60.33	-30.00	-30.33	peak
operation frequency:2480							
V	2698.447	-76.57	10.13	-66.44	-30.00	-36.44	peak
V	3528.597	-74.07	9.68	-64.39	-30.00	-34.39	peak
V	2435.038	-77.82	10.78	-67.04	-30.00	-37.04	peak
V	5451.342	-76.15	10.82	-65.33	-30.00	-35.33	peak
H	2236.632	-75.27	11.38	-63.89	-30.00	-33.89	peak
H	4839.257	-76.07	10.36	-65.71	-30.00	-35.71	peak
H	2333.283	-77.50	10.60	-66.90	-30.00	-36.90	peak
H	4349.722	-74.58	10.51	-64.07	-30.00	-34.07	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.							

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
Test Mode :	BT-GFSK (CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	31.511	-72.12	10.77	-61.35	-36.00	-25.35	peak
V	97.630	-73.64	11.26	-62.38	-54.00	-8.38	peak
V	202.096	-70.09	11.22	-58.87	-54.00	-4.87	peak
V	427.793	-77.00	11.19	-65.81	-36.00	-29.81	peak
V	566.198	-74.34	9.53	-64.81	-54.00	-10.81	peak
H	46.278	-72.71	10.45	-62.26	-36.00	-26.26	peak
H	101.972	-67.49	10.20	-57.29	-54.00	-3.29	peak
H	217.195	-67.17	10.83	-56.34	-54.00	-2.34	peak
H	274.490	-77.78	11.11	-66.67	-36.00	-30.67	peak
H	604.722	-72.90	11.03	-61.87	-54.00	-7.87	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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
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	2499.301	-72.44	10.22	-62.22	-30.00	-32.22	peak
V	4813.920	-76.45	9.68	-66.77	-30.00	-36.77	peak
V	2653.915	-69.28	10.95	-58.33	-30.00	-28.33	peak
V	5358.651	-76.23	9.85	-66.38	-30.00	-36.38	peak
H	2247.309	-71.27	10.50	-60.77	-30.00	-30.77	peak
H	5119.219	-74.34	11.22	-63.12	-30.00	-33.12	peak
H	2242.937	-73.84	10.13	-63.71	-30.00	-33.71	peak
H	3683.211	-75.14	10.38	-64.76	-30.00	-34.76	peak
operation frequency:2441							
V	2814.305	-71.85	10.17	-61.68	-30.00	-31.68	peak
V	3165.608	-74.76	10.22	-64.54	-30.00	-34.54	peak
V	2911.199	-74.70	10.42	-64.28	-30.00	-34.28	peak
V	4930.072	-70.19	10.79	-59.40	-30.00	-29.40	peak
H	2910.541	-67.19	9.82	-57.37	-30.00	-27.37	peak
H	5380.534	-74.18	9.57	-64.61	-30.00	-34.61	peak
H	2693.008	-69.92	9.66	-60.26	-30.00	-30.26	peak
H	4925.319	-77.09	11.33	-65.76	-30.00	-35.76	peak
operation frequency:2480							
V	2720.765	-72.78	10.13	-62.65	-30.00	-32.65	peak
V	3815.341	-72.03	9.68	-62.35	-30.00	-32.35	peak
V	2004.037	-67.35	10.78	-56.57	-30.00	-26.57	peak
V	3961.579	-77.31	10.82	-66.49	-30.00	-36.49	peak
H	2832.757	-70.03	11.38	-58.65	-30.00	-28.65	peak
H	5737.301	-70.30	10.36	-59.94	-30.00	-29.94	peak
H	2385.783	-67.77	10.60	-57.17	-30.00	-27.17	peak
H	5750.509	-72.41	10.51	-61.90	-30.00	-31.90	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

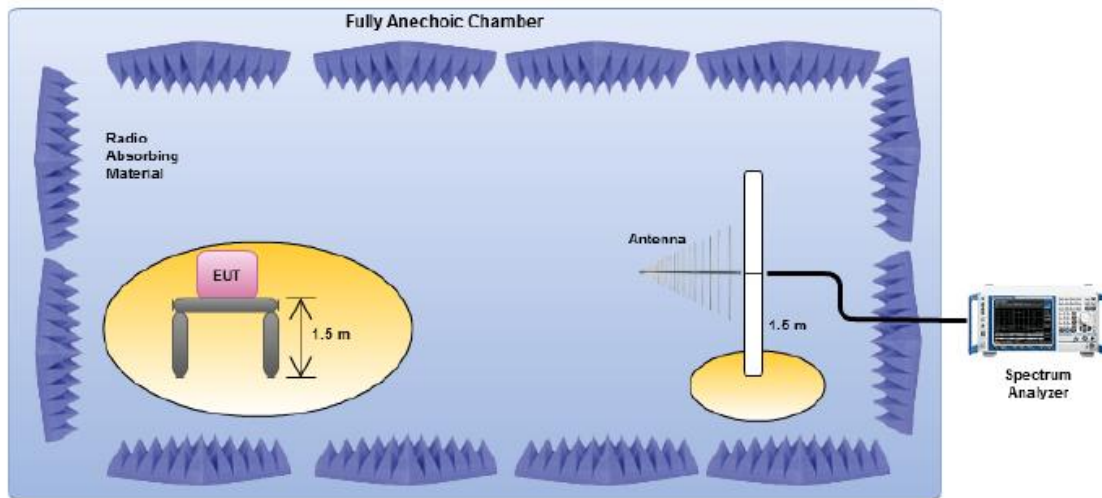
RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

9.3 DEVIATION FROM TEST STANDARD

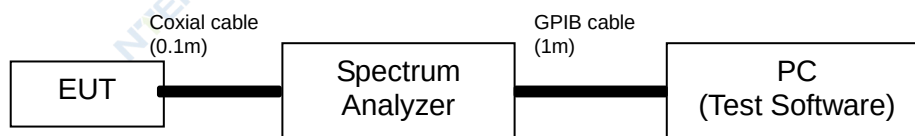
No deviation

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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: DC 3.87V
Test Mode :	GFSK(CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	44.367	-77.79	12.25	-65.54	-57.00	-8.54	peak
V	111.401	-78.64	16.13	-62.51	-57.00	-5.51	peak
V	182.13	-80.27	14.05	-66.22	-57.00	-9.22	peak
V	402.939	-80.02	17.01	-63.01	-57.00	-6.01	peak
V	662.417	-79.99	15.51	-64.48	-57.00	-7.48	peak
H	45.993	-80.19	14.62	-65.57	-57.00	-8.57	peak
H	99.026	-79.45	17.87	-61.58	-57.00	-4.58	peak
H	189.059	-82.1	16.70	-65.40	-57.00	-8.40	peak
H	403.436	-82.3	15.79	-66.51	-57.00	-9.51	peak
H	655.844	-81.05	17.54	-63.51	-57.00	-6.51	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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: DC 3.87V
Test Mode :	GFSK (CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2856.952	-80.75	10.46	-70.29	-47.00	-23.29	peak
V	3156.31	-81.95	10.21	-71.74	-47.00	-24.74	peak
V	2090.532	-82.25	10.57	-71.68	-47.00	-24.68	peak
V	5774.721	-82.12	16.88	-65.24	-47.00	-18.24	peak
H	2124.012	-80.83	10.29	-70.54	-47.00	-23.54	peak
H	4279.418	-80.02	11.29	-68.73	-47.00	-21.73	peak
H	2627.572	-84.95	6.79	-78.16	-47.00	-31.16	peak
H	5153.973	-81.5	15.06	-66.44	-47.00	-19.44	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.

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
Test Mode :	GFSK(CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	42.835	-79.89	12.25	-67.64	-57.00	-10.64	peak
V	96.744	-78.46	16.13	-62.33	-57.00	-5.33	peak
V	183.696	-83.57	14.05	-69.52	-57.00	-12.52	peak
V	442.877	-80.44	17.01	-63.43	-57.00	-6.43	peak
V	511.017	-80	15.51	-64.49	-57.00	-7.49	peak
H	33.735	-78.89	14.62	-64.27	-57.00	-7.27	peak
H	117.491	-81.88	17.87	-64.01	-57.00	-7.01	peak
H	188.678	-78.52	16.70	-61.82	-57.00	-4.82	peak
H	465.237	-79.86	15.79	-64.07	-57.00	-7.07	peak
H	523.544	-78.2	17.54	-60.66	-57.00	-3.66	peak

Remark:

- Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
- 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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
Test Mode :	GFSK (CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2973.784	-77.14	10.46	-66.68	-47.00	-19.68	peak
V	4283.429	-82.36	10.21	-72.15	-47.00	-25.15	peak
V	2000.358	-84.14	10.57	-73.57	-47.00	-26.57	peak
V	4870.605	-78.6	16.88	-61.72	-47.00	-14.72	peak
H	2206.587	-81.59	10.29	-71.30	-47.00	-24.30	peak
H	4531.525	-79.57	11.29	-68.28	-47.00	-21.28	peak
H	2071.711	-81.76	6.79	-74.97	-47.00	-27.97	peak
H	5476.433	-78.15	15.06	-63.09	-47.00	-16.09	peak

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

4. 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
$(-133 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ 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 $P_{\min} + 26 \text{ dB}$ 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 $P_{\min} + 20 \text{ dB}$ 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
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 10 \text{ dB})$ or $(-74 \text{ dBm} + 10 \text{ dB})$ 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 $P_{\min} + 26 \text{ dB}$ 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
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ 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 $P_{\min} + 30 \text{ dB}$ 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

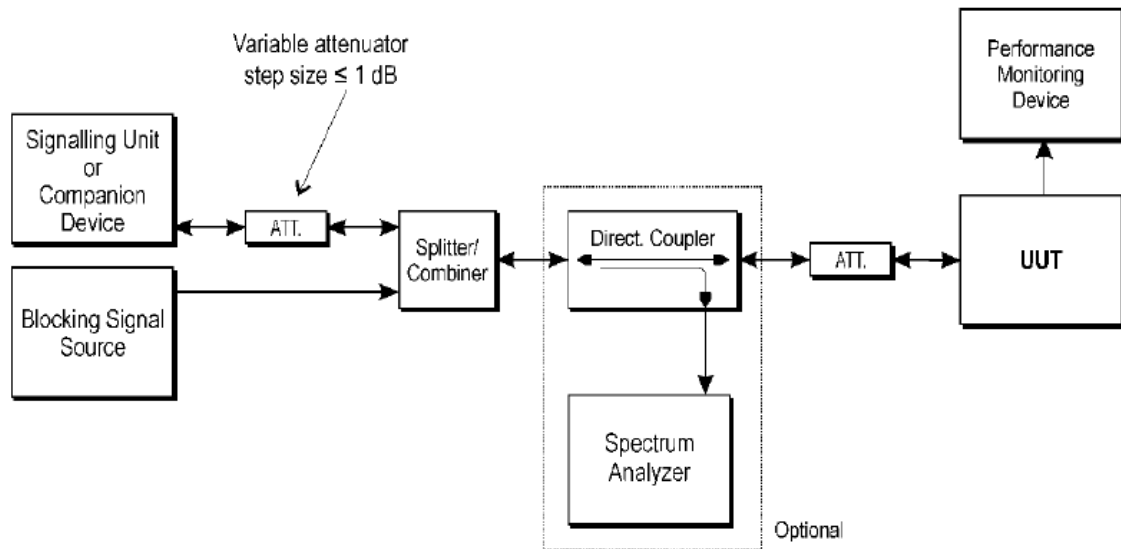
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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 :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: 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 %
-70.18	2 380	-34	0.23%	≤10%
	2 504		0.31%	
	2 300		0.72%	≤10%
	2 584		0.83%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-70.16	2 380	-34	0.04%	≤10%
	2 504		0.62%	
	2 300		0.42%	≤10%
	2 584		0.58%	

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: DC 3.87V
Test Mode :	$\pi/4$ -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 %
-68.26	2 380	-34	0.86%	≤10%
	2 504		0.65%	
	2 300		0.02%	≤10%
	2 584		0.19%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68.27	2 380	-34	0.63%	≤10%
	2 504		0.10%	
	2 300		0.22%	≤10%
	2 584		0.58%	

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Phone: 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 %
-68.21	2 380	-34	0.74%	≤10%
	2 504		0.70%	
	2 300		0.64%	≤10%
	2 584		0.70%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68.22	2 380	-34	0.50%	≤10%
	2 504		0.98%	
	2 300		0.77%	≤10%
	2 584		0.30%	

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
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 %
-69.67	2 380	-34	0.39%	≤10%
	2 504		0.55%	
	2 300		0.90%	≤10%
	2 584		0.80%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-69.55	2 380	-34	0.01%	≤10%
	2 504		0.73%	
	2 300		0.05%	≤10%
	2 584		0.22%	

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
Test Mode :	$\pi/4$ -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 %
-58.26	2 380	-34	0.51%	≤10%
	2 504		0.12%	
	2 300		0.70%	≤10%
	2 584		0.34%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-58.26	2 380	-34	0.09%	≤10%
	2 504		0.63%	
	2 300		0.35%	≤10%
	2 584		0.80%	

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

EUT :	Smart Phone	Model Name :	WP200 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	Watch: DC 3.8V
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 %
-58.26	2 380	-34	0.88%	≤10%
	2 504		0.51%	
	2 300		0.72%	≤10%
	2 584		0.12%	

CH78

receiver category 2

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-58.23	2 380	-34	0.60%	≤10%
	2 504		0.84%	
	2 300		0.19%	≤10%
	2 584		0.25%	

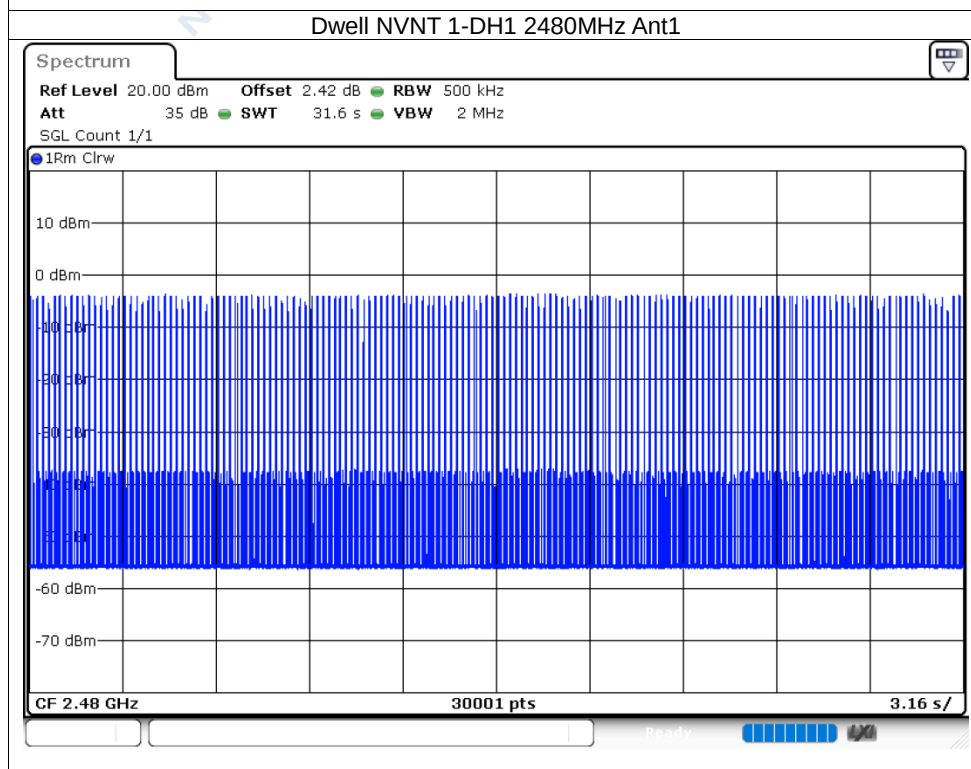
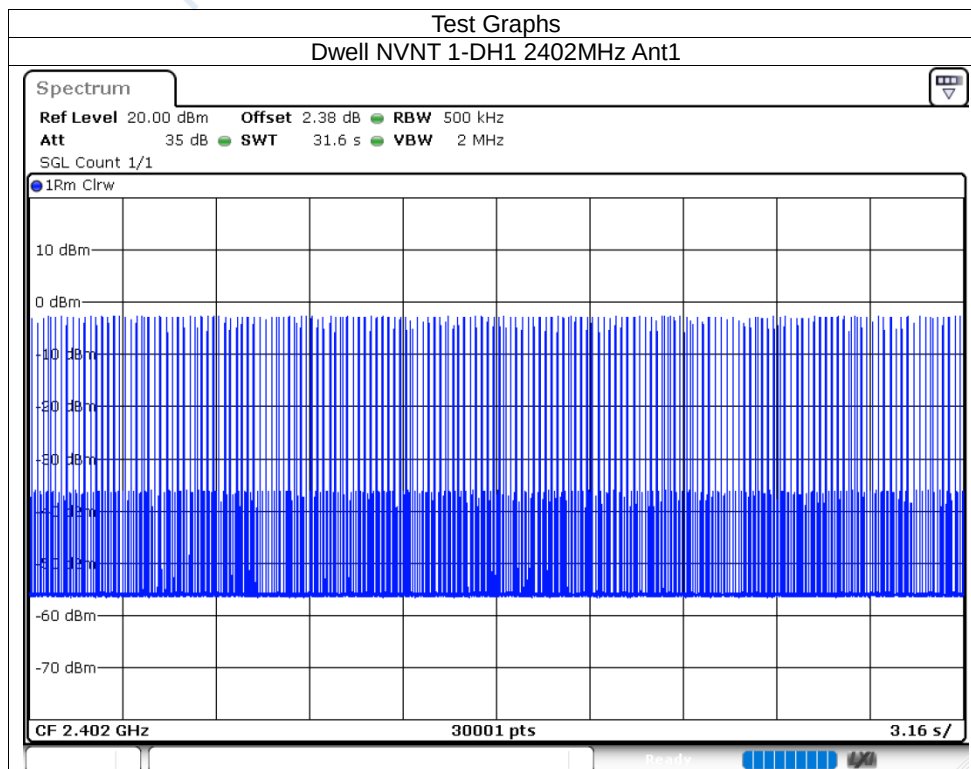
Note: (1) The above results were obtained from laboratory tests.

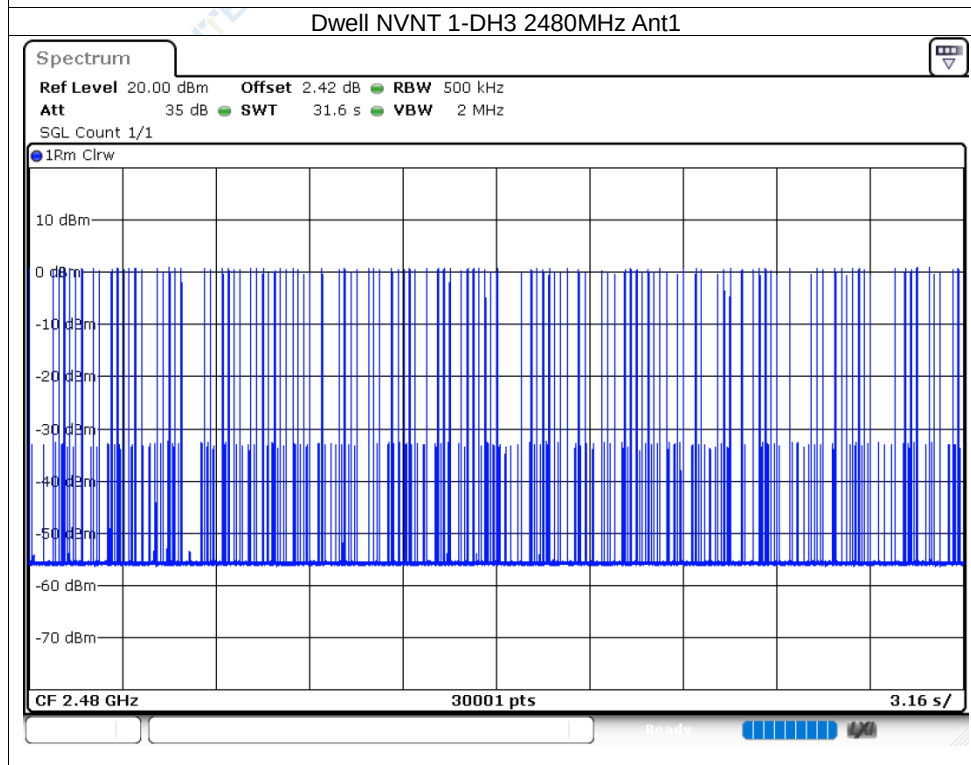
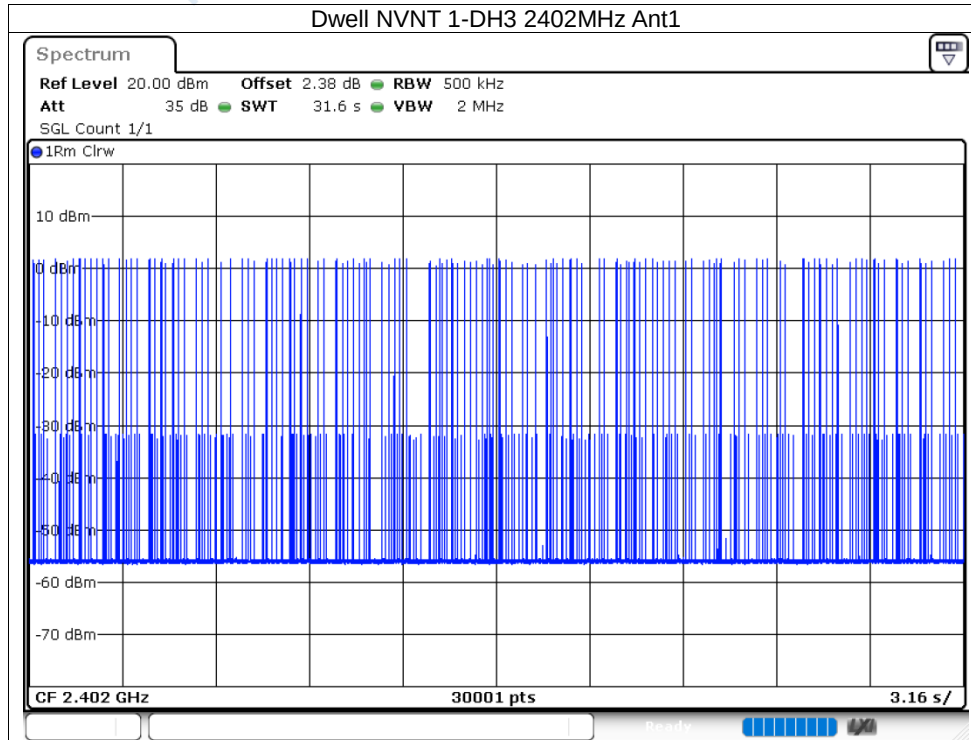
11. TEST RESULTS

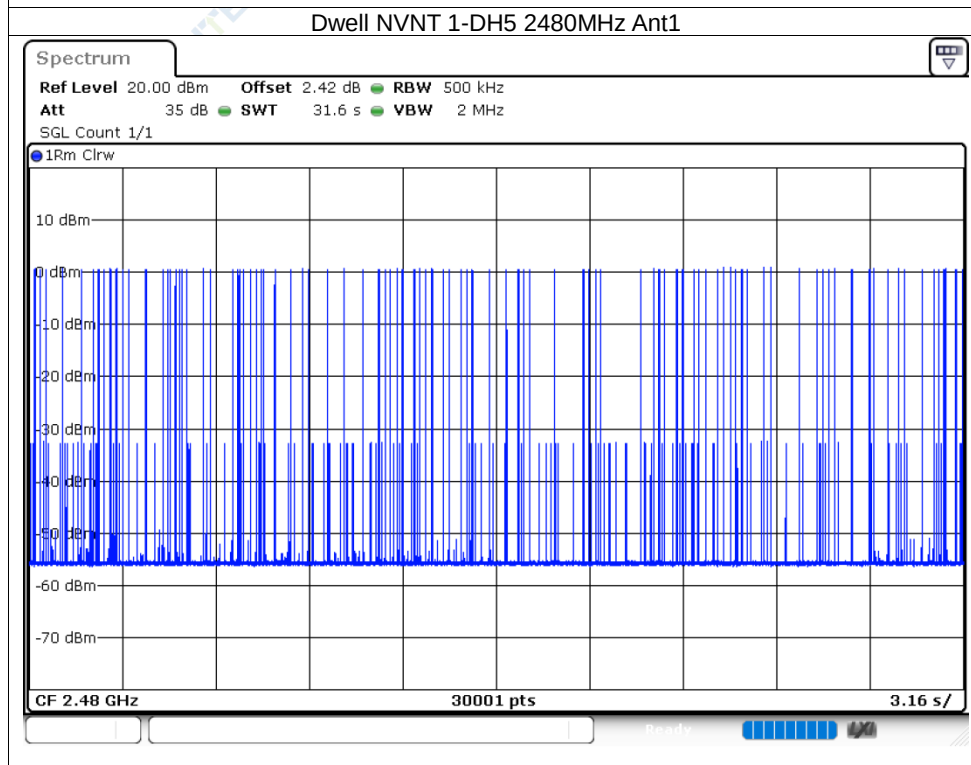
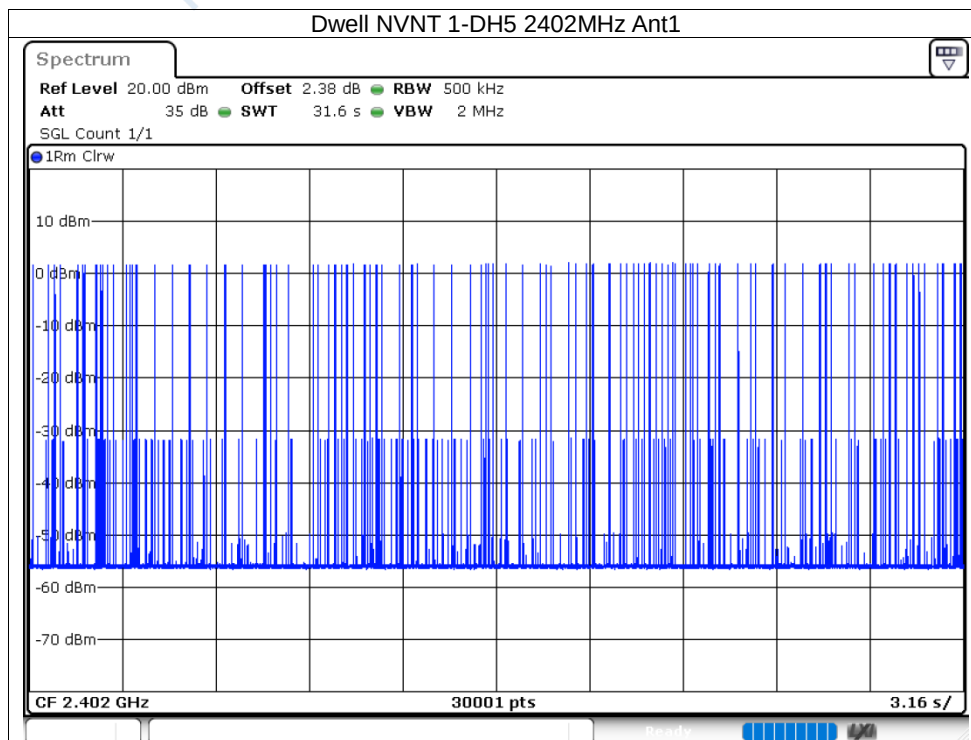
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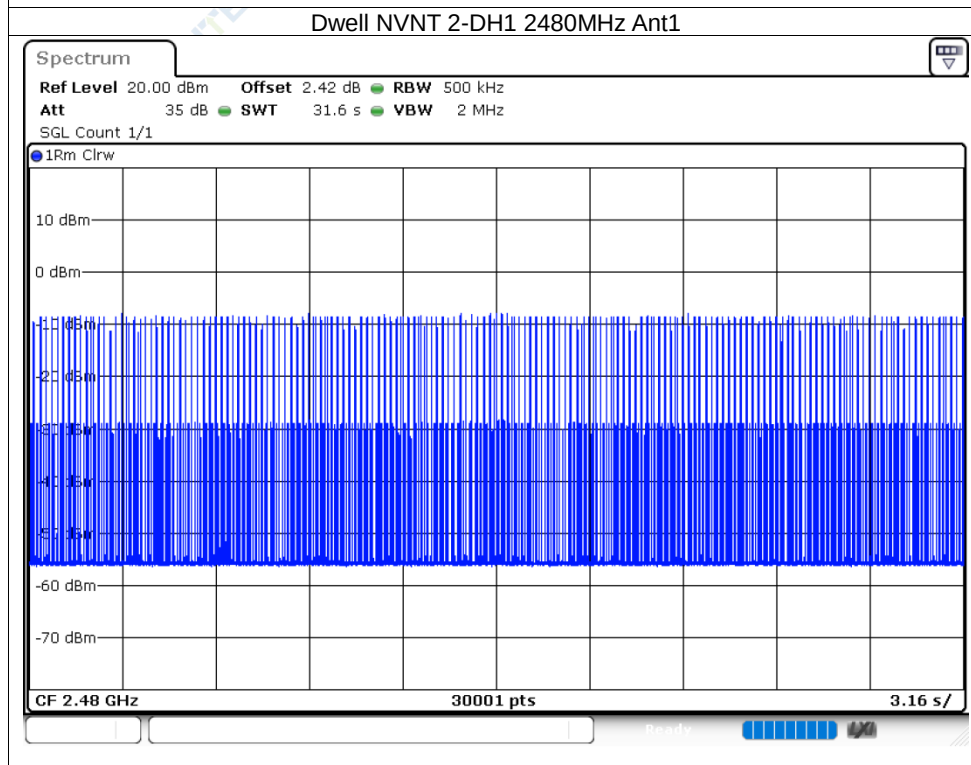
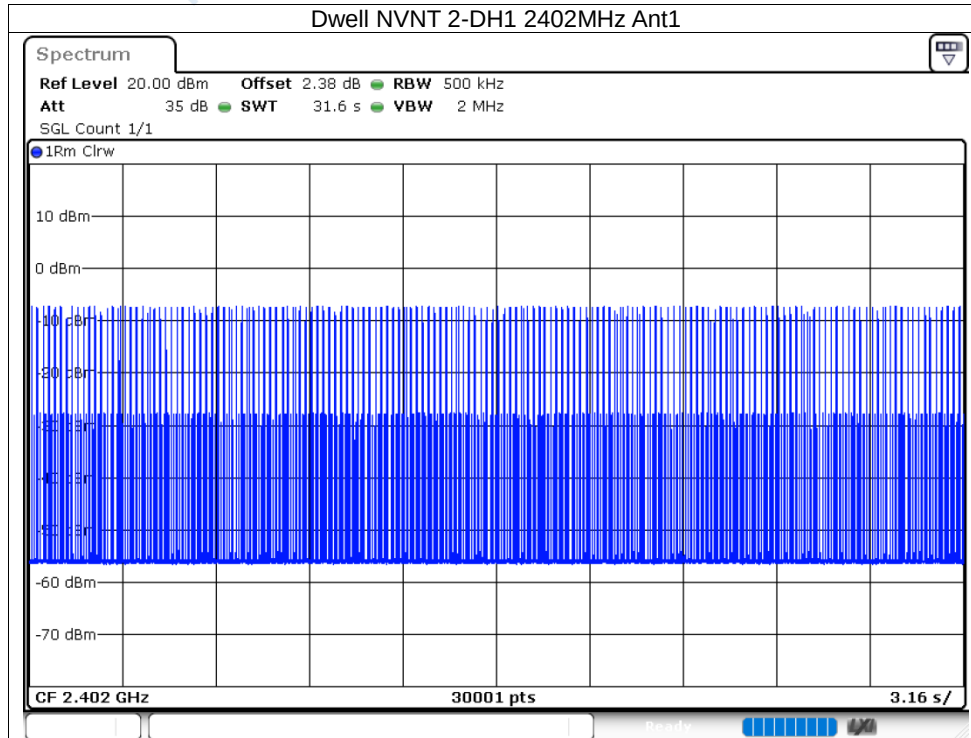
11.1.1 Accumulated Transmit Time

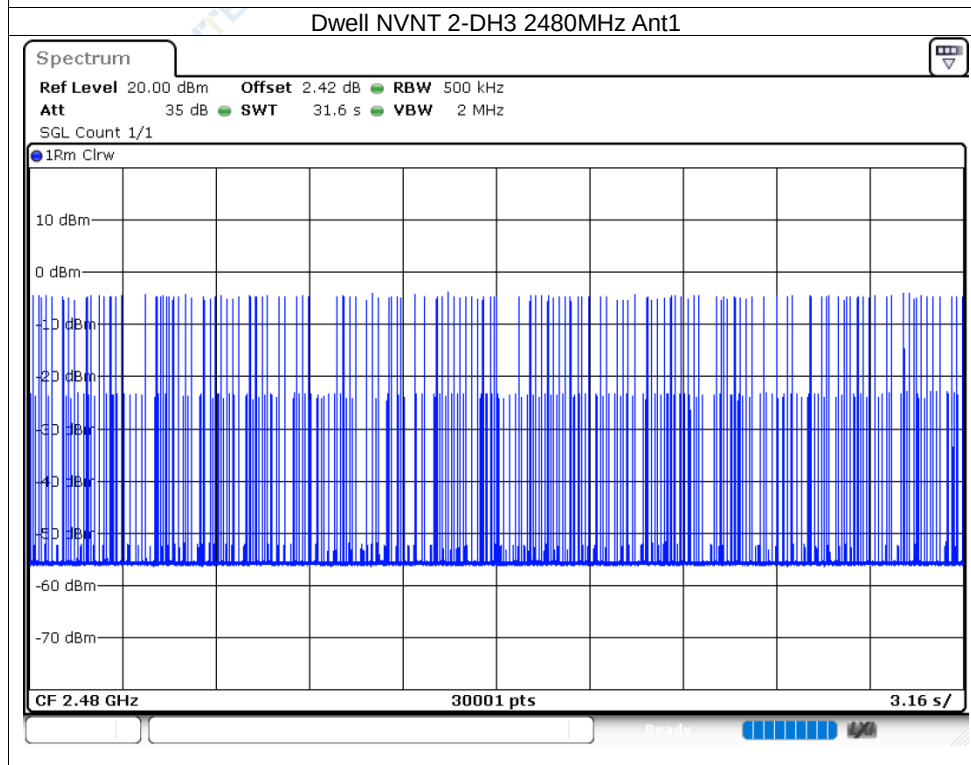
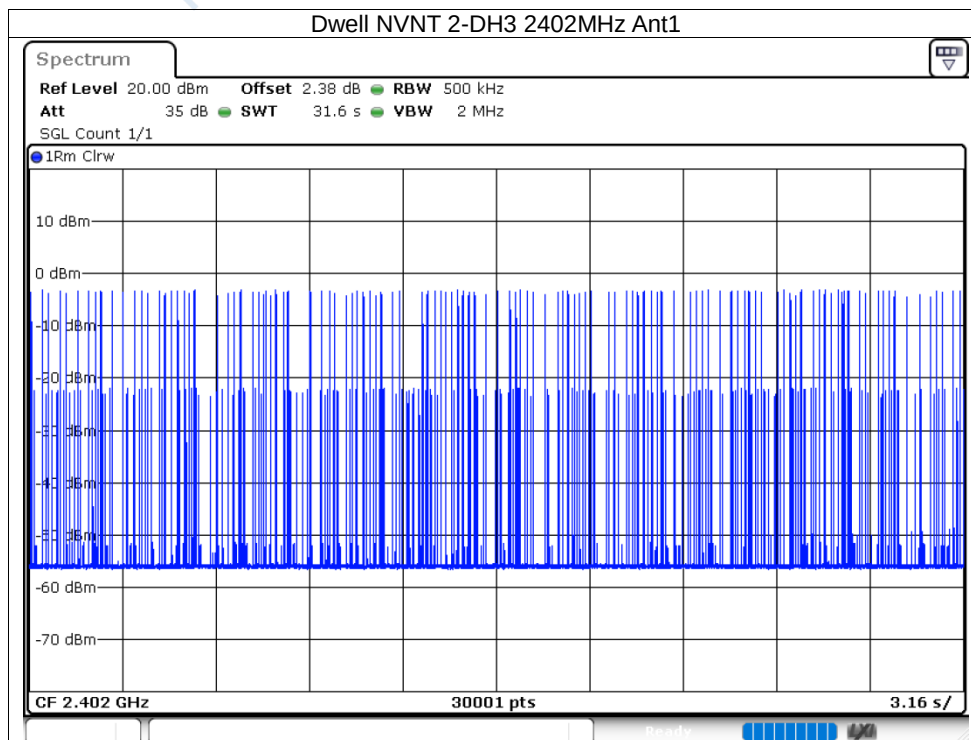
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NVNT	1-DH1	2402	Ant1	119.625	400	31600	319	Pass
NVNT	1-DH1	2480	Ant1	119.625	400	31600	319	Pass
NVNT	1-DH3	2402	Ant1	278.901	400	31600	171	Pass
NVNT	1-DH3	2480	Ant1	250.866	400	31600	154	Pass
NVNT	1-DH5	2402	Ant1	351.238	400	31600	122	Pass
NVNT	1-DH5	2480	Ant1	339.486	400	31600	118	Pass
NVNT	2-DH1	2402	Ant1	121.539	400	31600	319	Pass
NVNT	2-DH1	2480	Ant1	122.177	400	31600	319	Pass
NVNT	2-DH3	2402	Ant1	236.785	400	31600	145	Pass
NVNT	2-DH3	2480	Ant1	269.445	400	31600	165	Pass
NVNT	2-DH5	2402	Ant1	317.13	400	31600	110	Pass
NVNT	2-DH5	2480	Ant1	314.029	400	31600	109	Pass
NVNT	3-DH1	2402	Ant1	122.943	400	31600	321	Pass
NVNT	3-DH1	2480	Ant1	121.6	400	31600	320	Pass
NVNT	3-DH3	2402	Ant1	287.584	400	31600	176	Pass
NVNT	3-DH3	2480	Ant1	254.592	400	31600	156	Pass
NVNT	3-DH5	2402	Ant1	314.465	400	31600	109	Pass
NVNT	3-DH5	2480	Ant1	300.04	400	31600	104	Pass

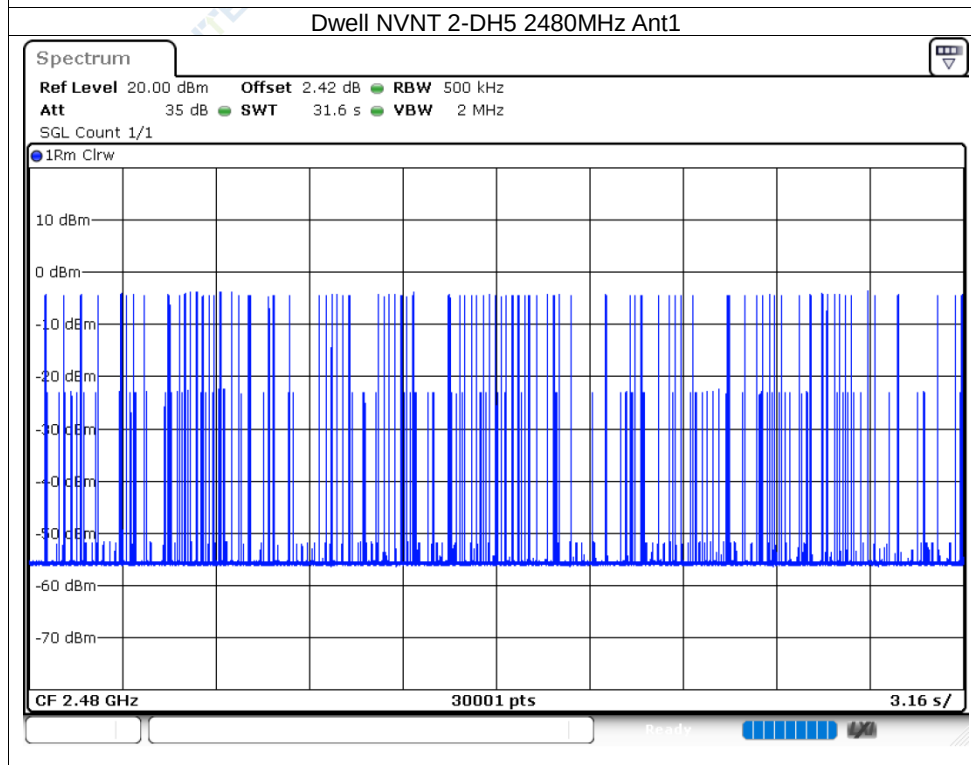
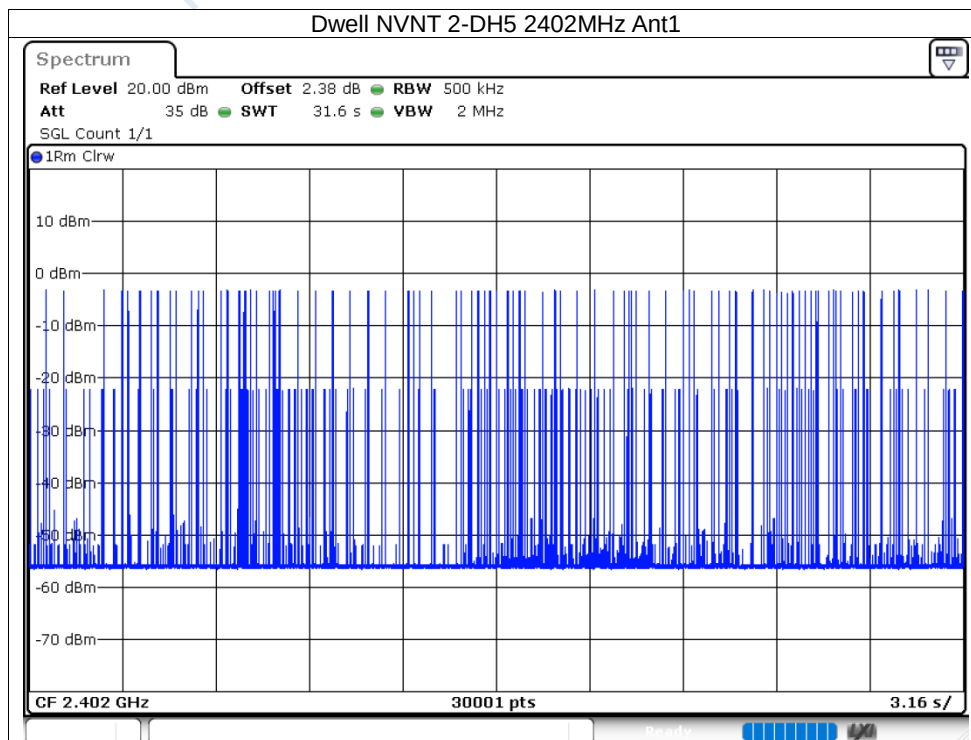


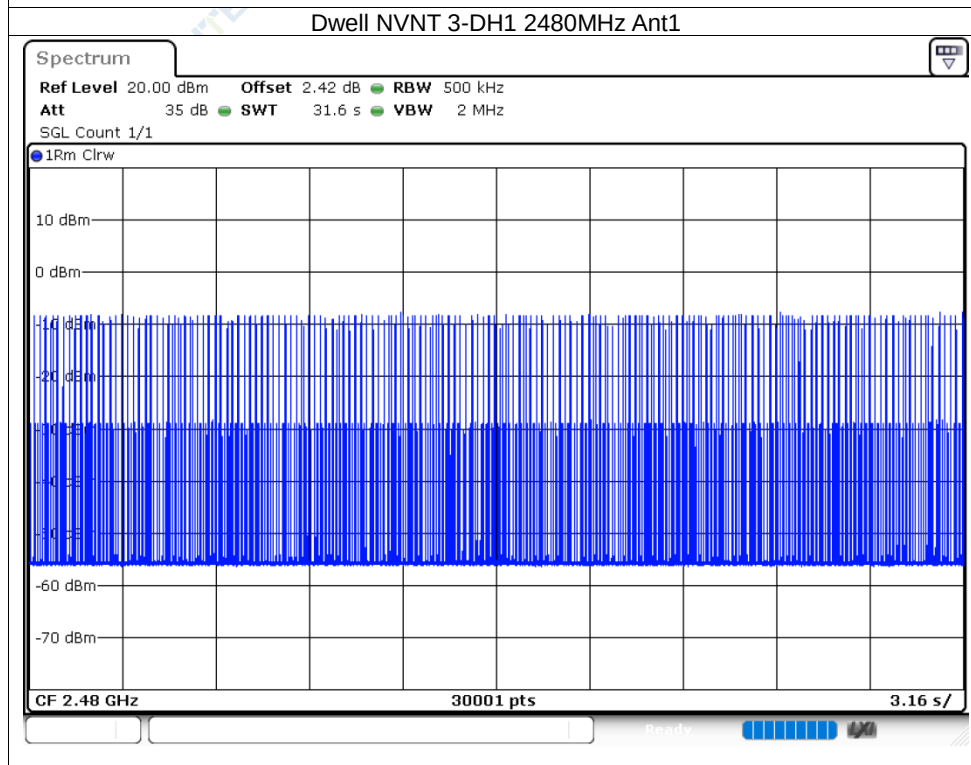
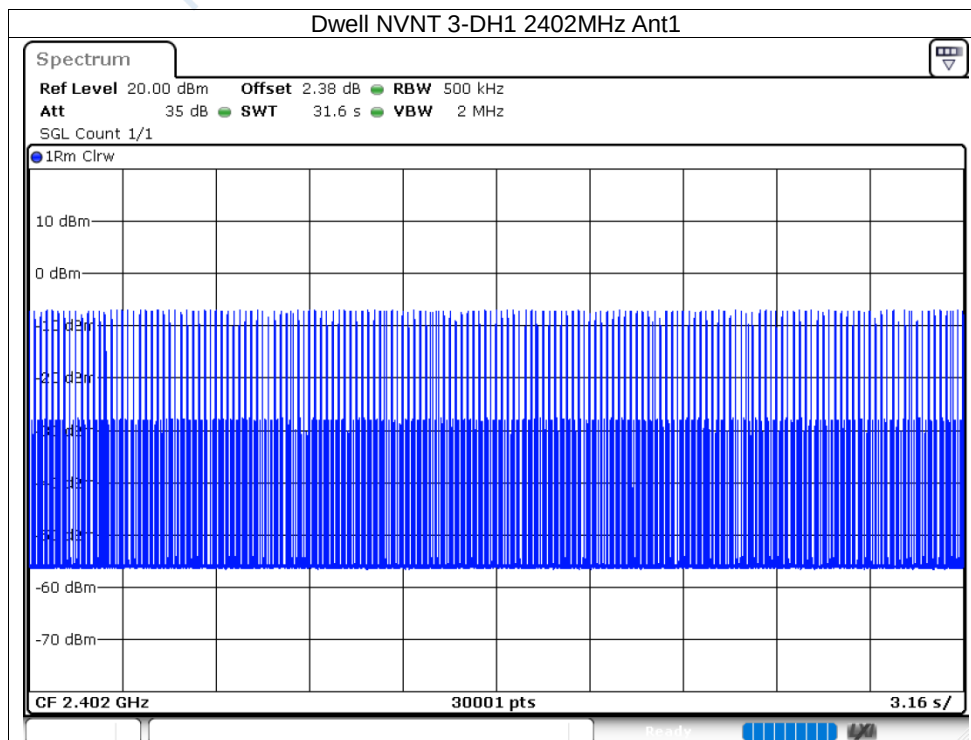


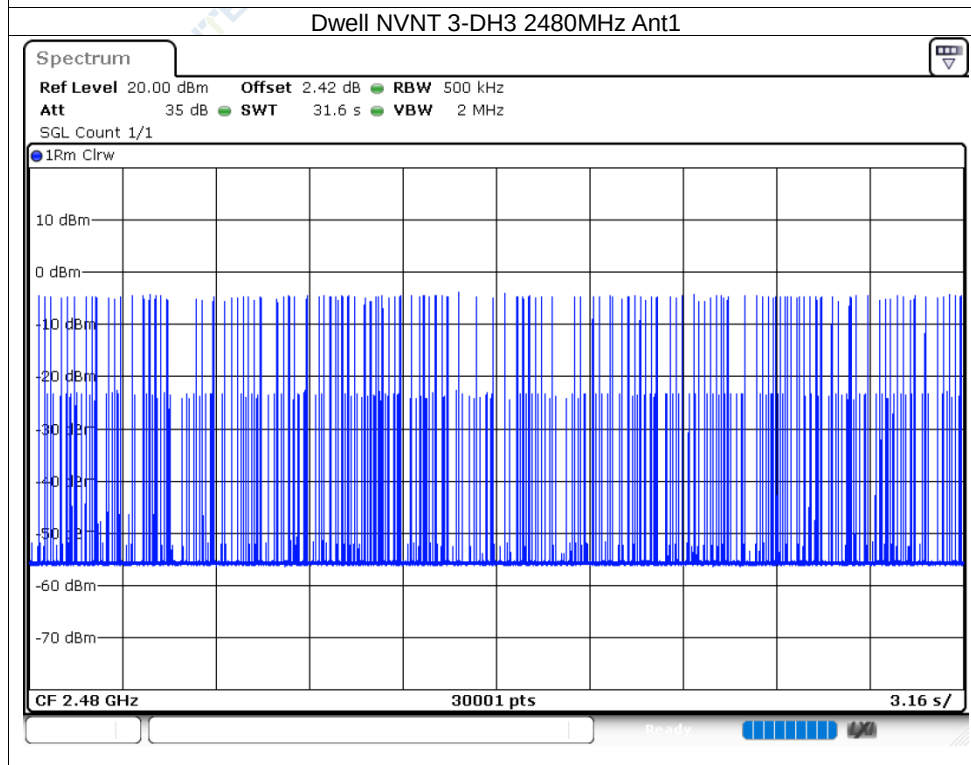
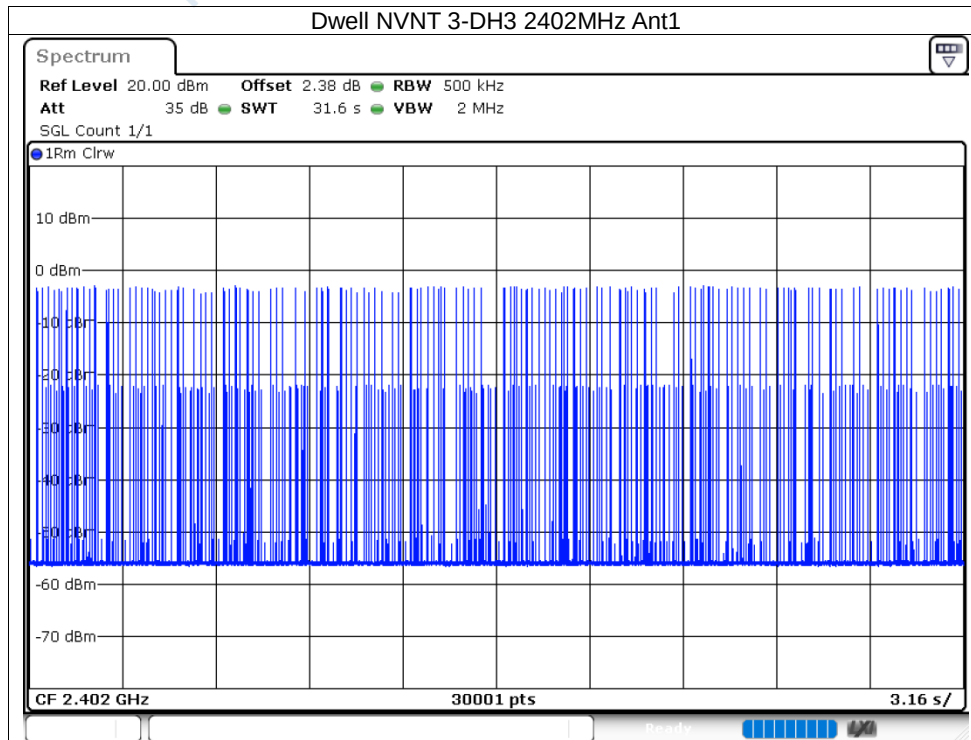


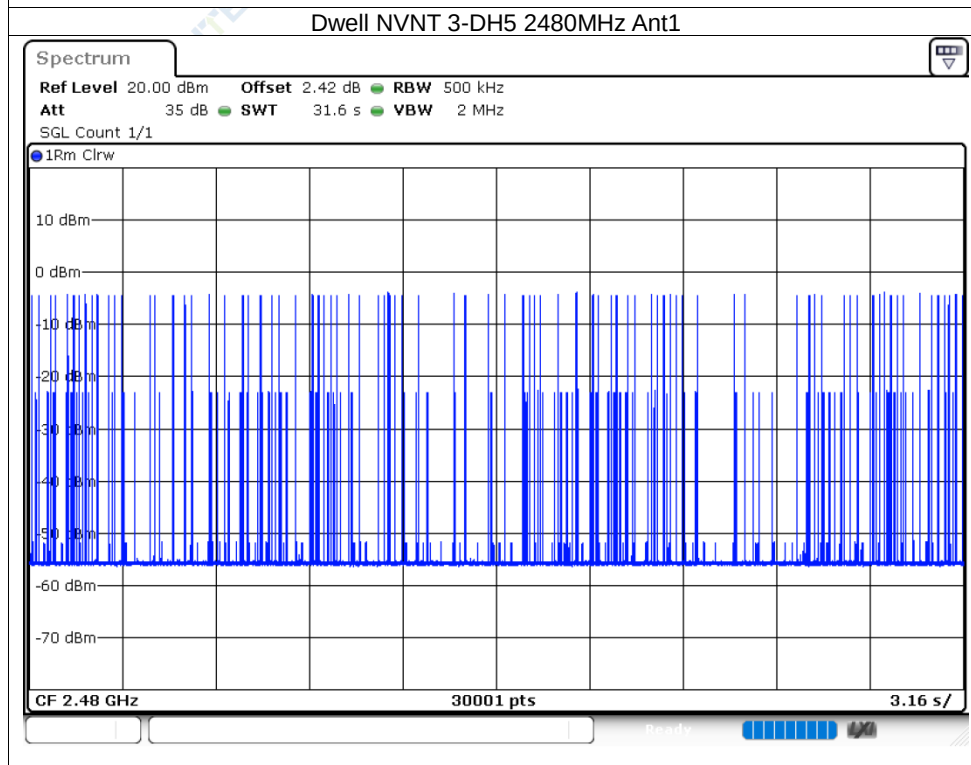
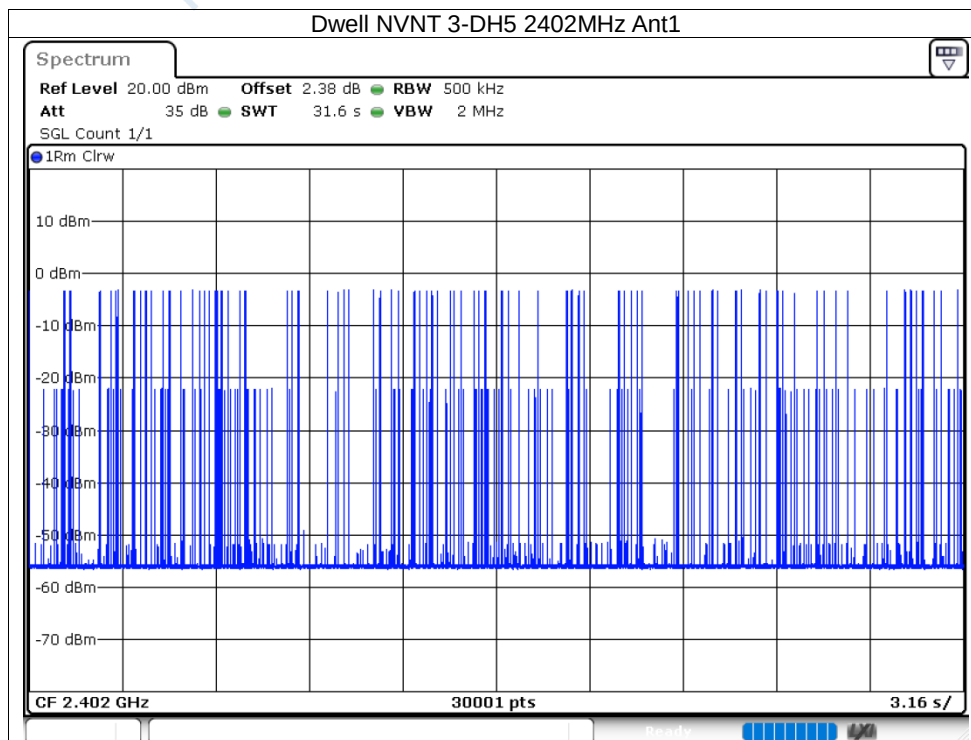






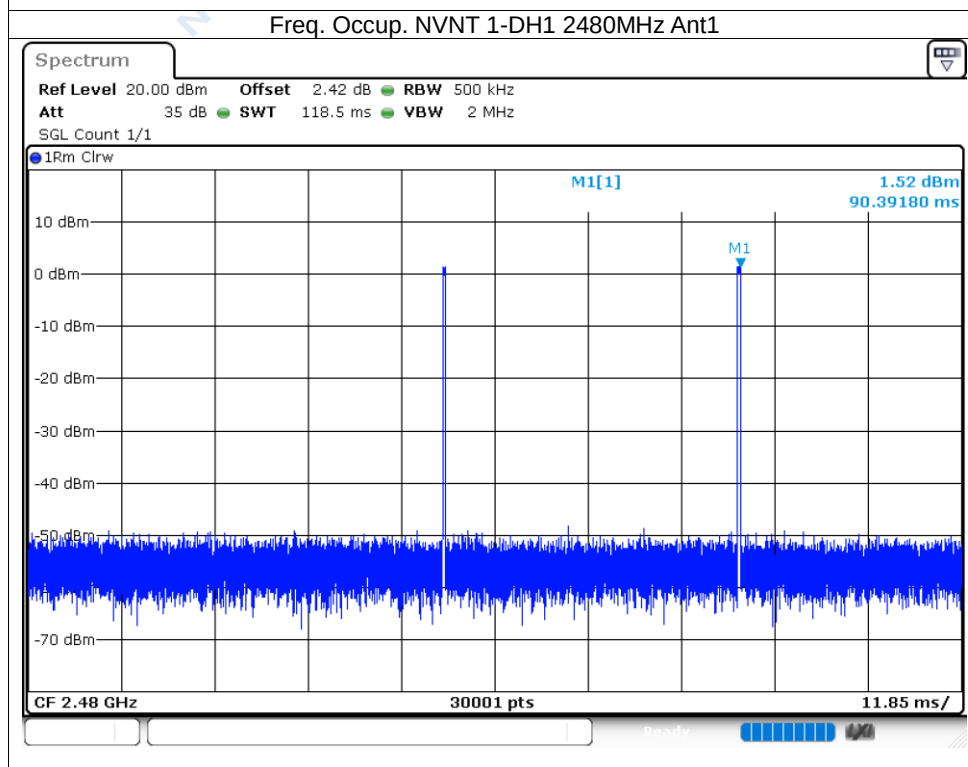
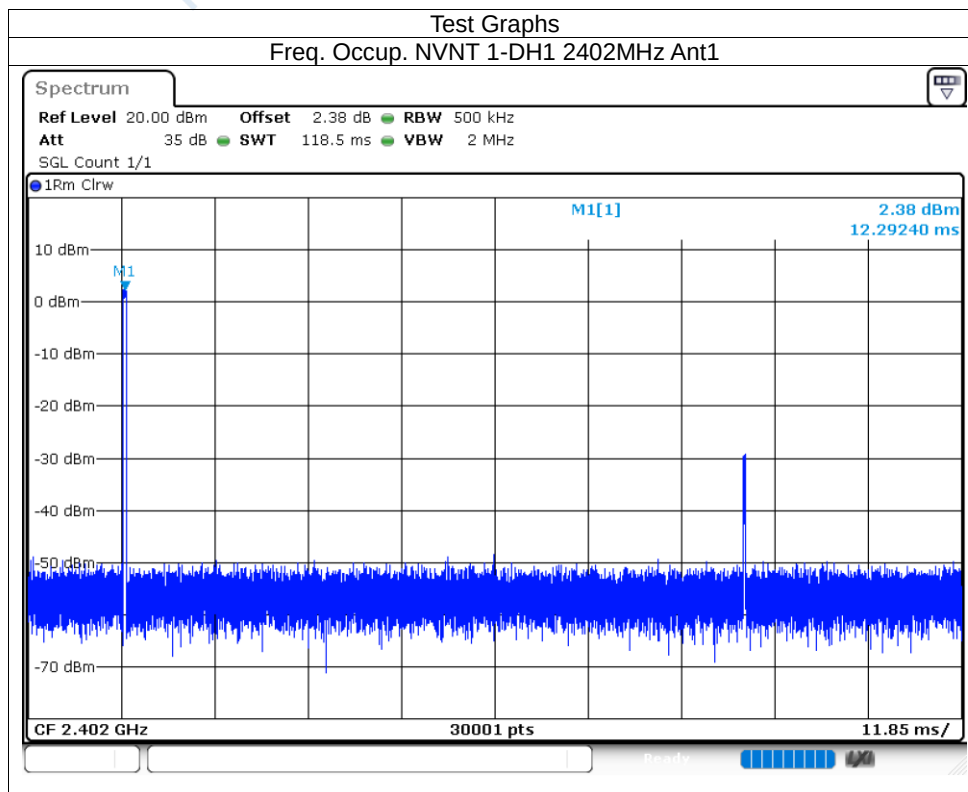


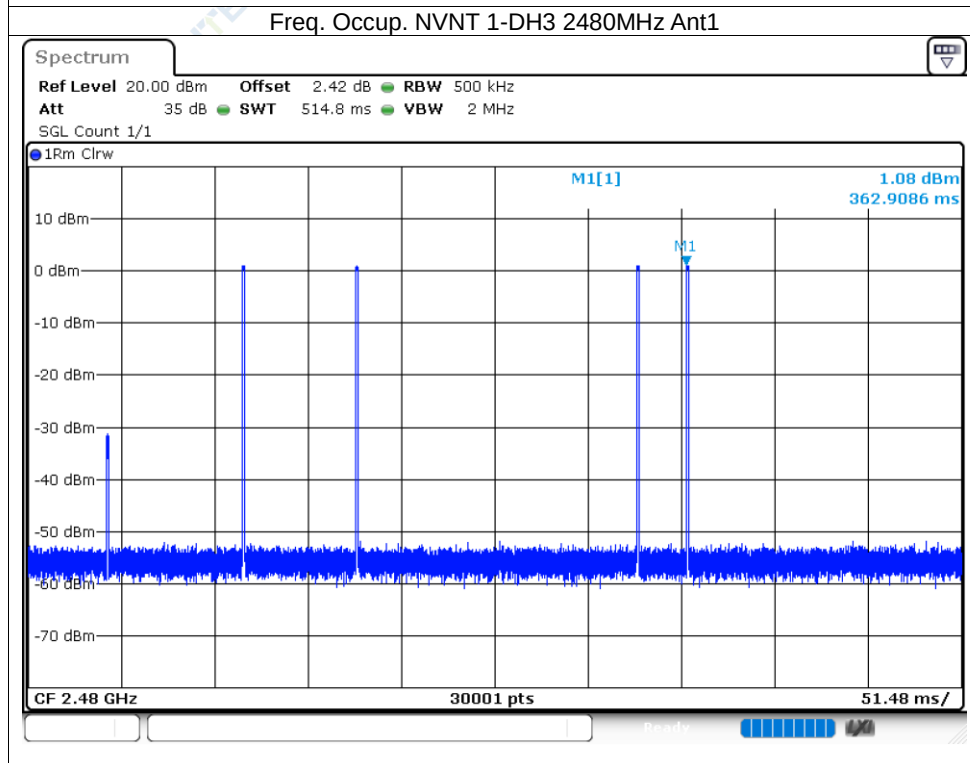
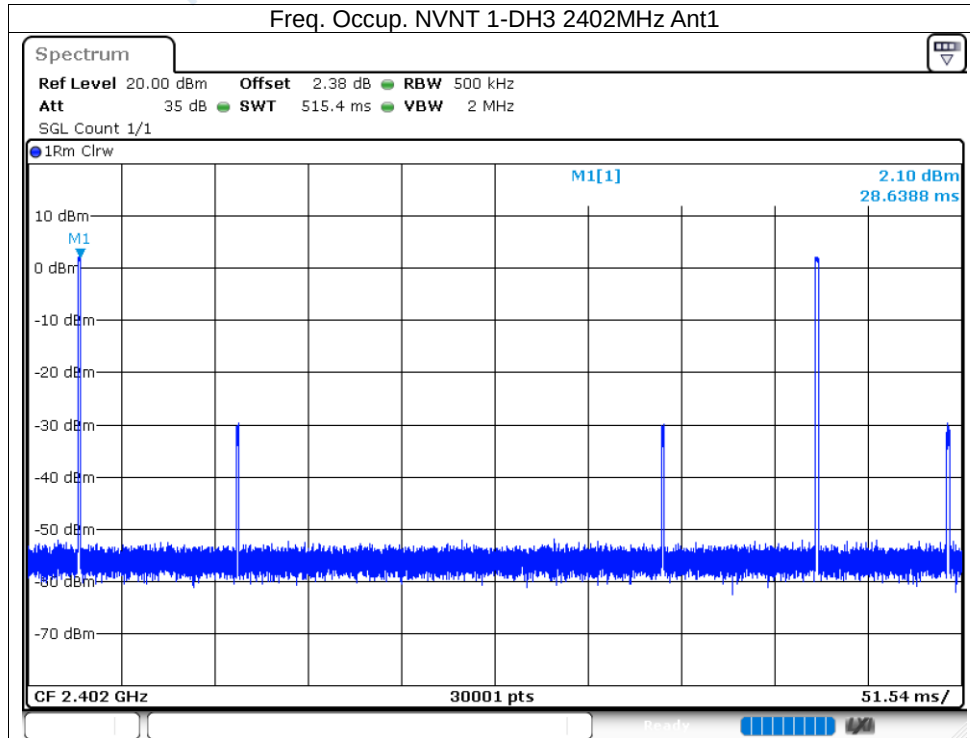


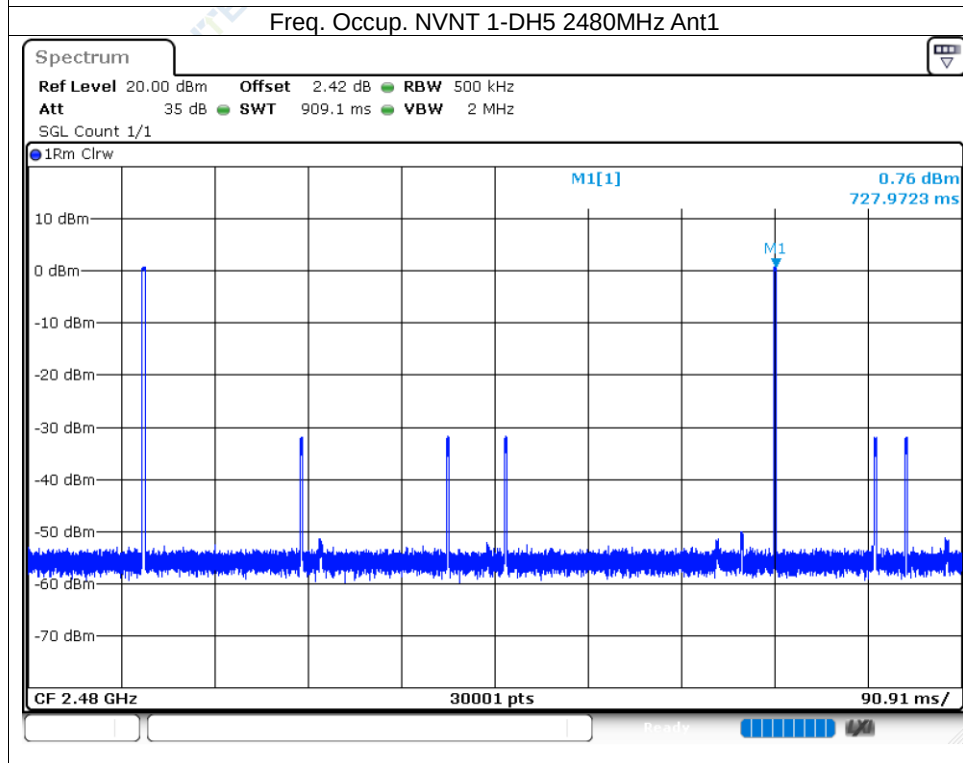
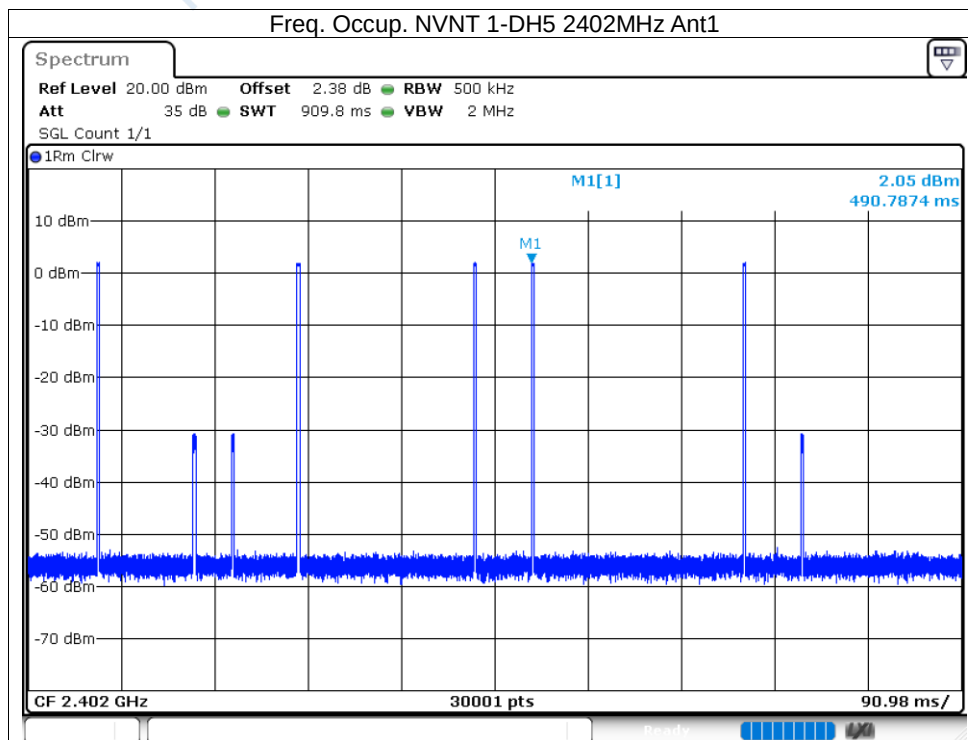


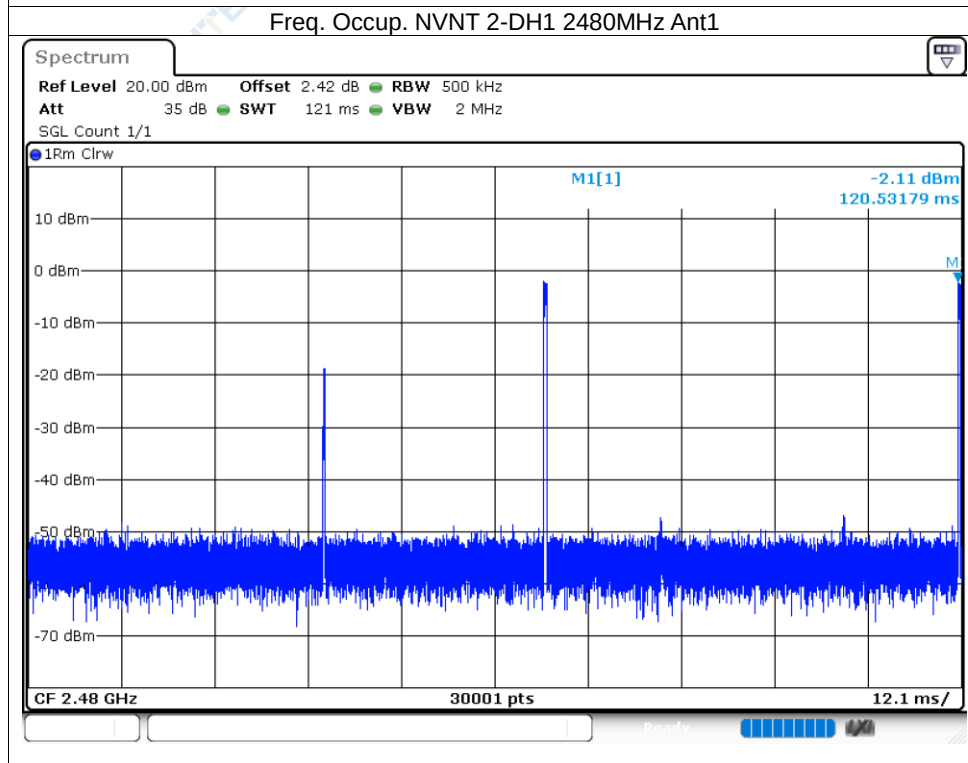
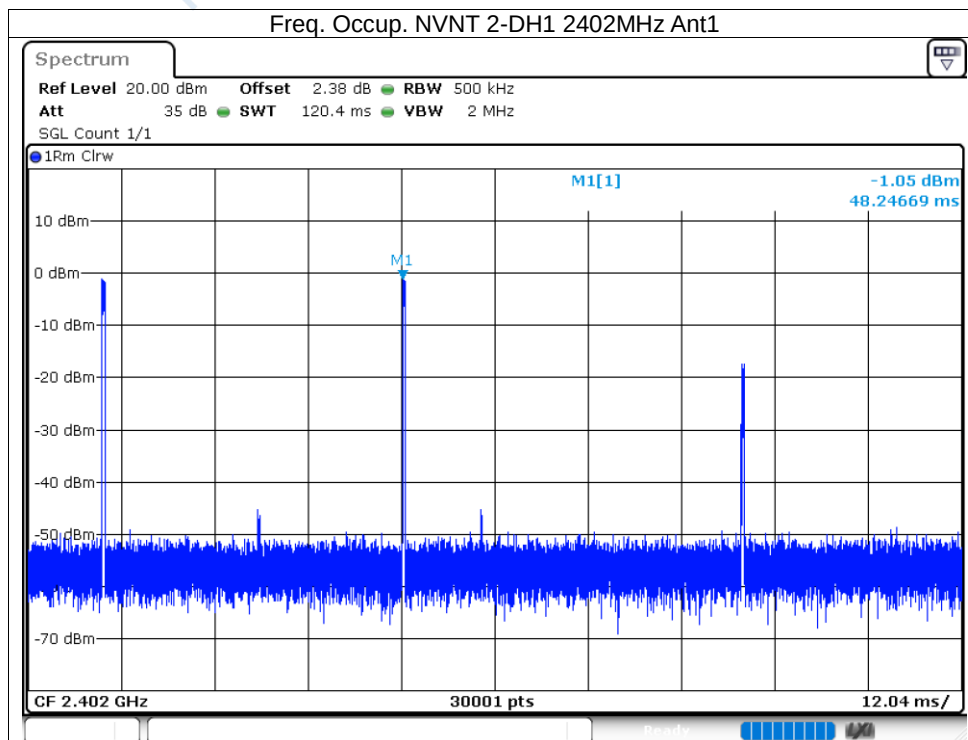
11.1.2 Frequency Occupation

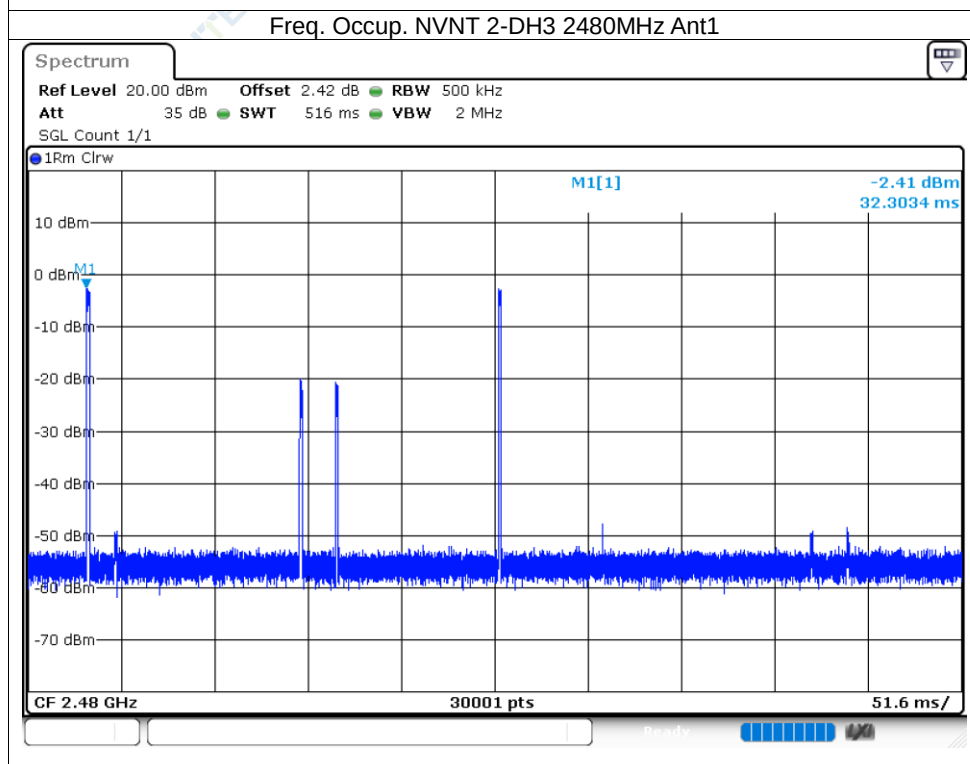
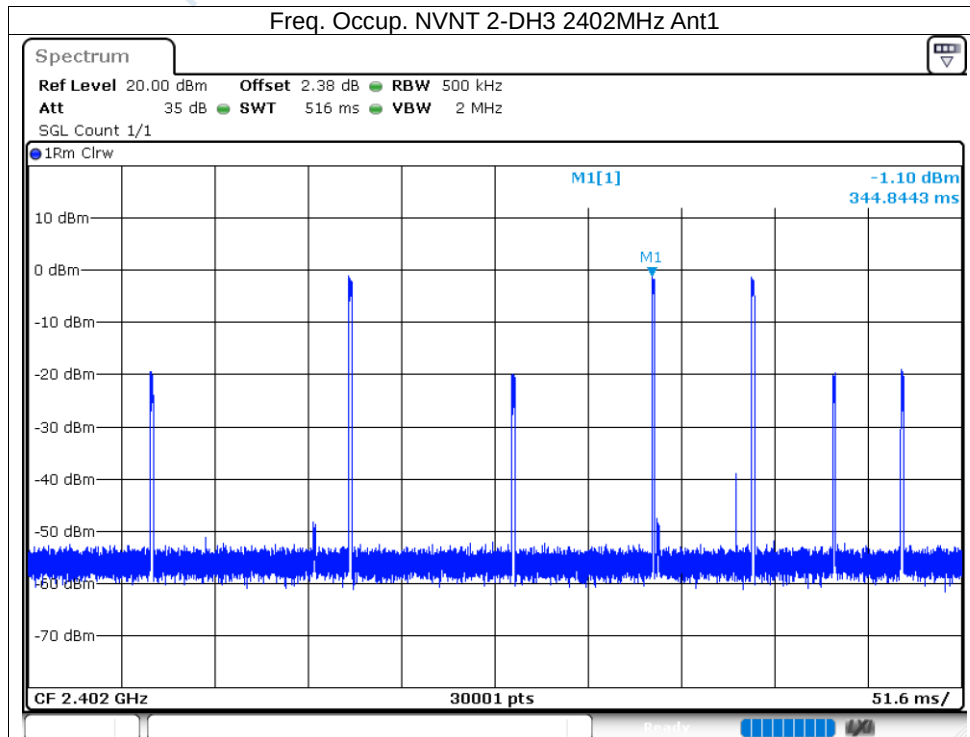
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NVNT	1-DH1	2402	Ant1	1	1	118.5	Pass
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NVNT	1-DH3	2402	Ant1	2	1	515.396	Pass
NVNT	1-DH3	2480	Ant1	4	1	514.764	Pass
NVNT	1-DH5	2402	Ant1	5	1	909.764	Pass
NVNT	1-DH5	2480	Ant1	2	1	909.132	Pass
NVNT	2-DH1	2402	Ant1	2	1	120.396	Pass
NVNT	2-DH1	2480	Ant1	2	1	121.028	Pass
NVNT	2-DH3	2402	Ant1	3	1	516.028	Pass
NVNT	2-DH3	2480	Ant1	2	1	516.028	Pass
NVNT	2-DH5	2402	Ant1	6	1	911.028	Pass
NVNT	2-DH5	2480	Ant1	5	1	910.396	Pass
NVNT	3-DH1	2402	Ant1	1	1	121.028	Pass
NVNT	3-DH1	2480	Ant1	2	1	120.08	Pass
NVNT	3-DH3	2402	Ant1	3	1	516.344	Pass
NVNT	3-DH3	2480	Ant1	5	1	515.712	Pass
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NVNT	3-DH5	2480	Ant1	2	1	911.66	Pass

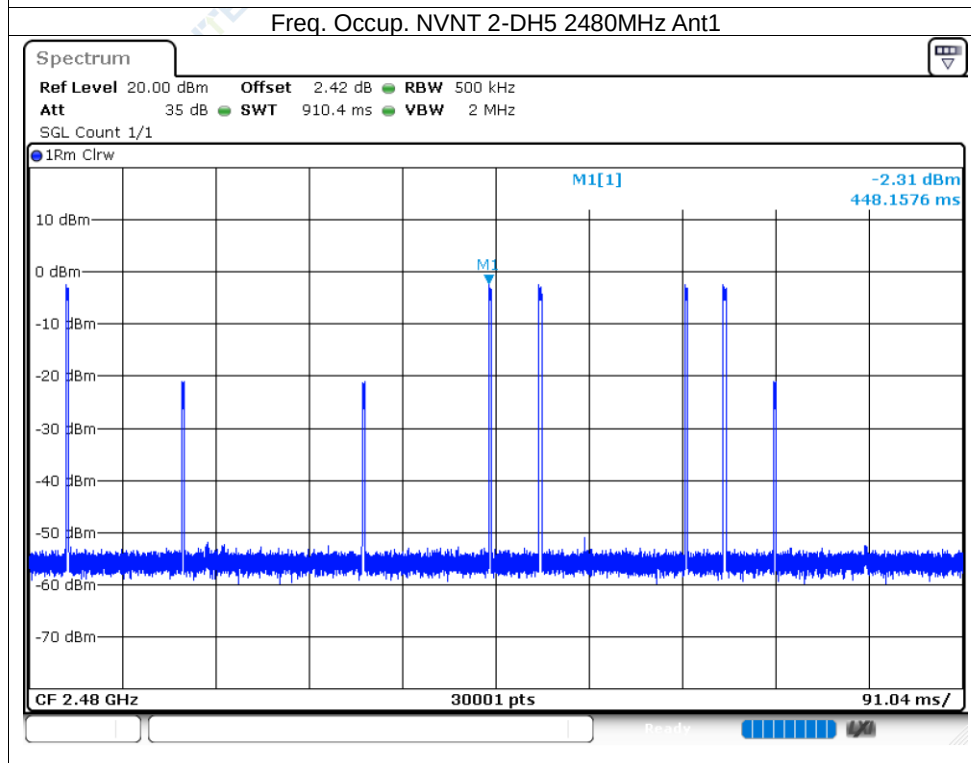
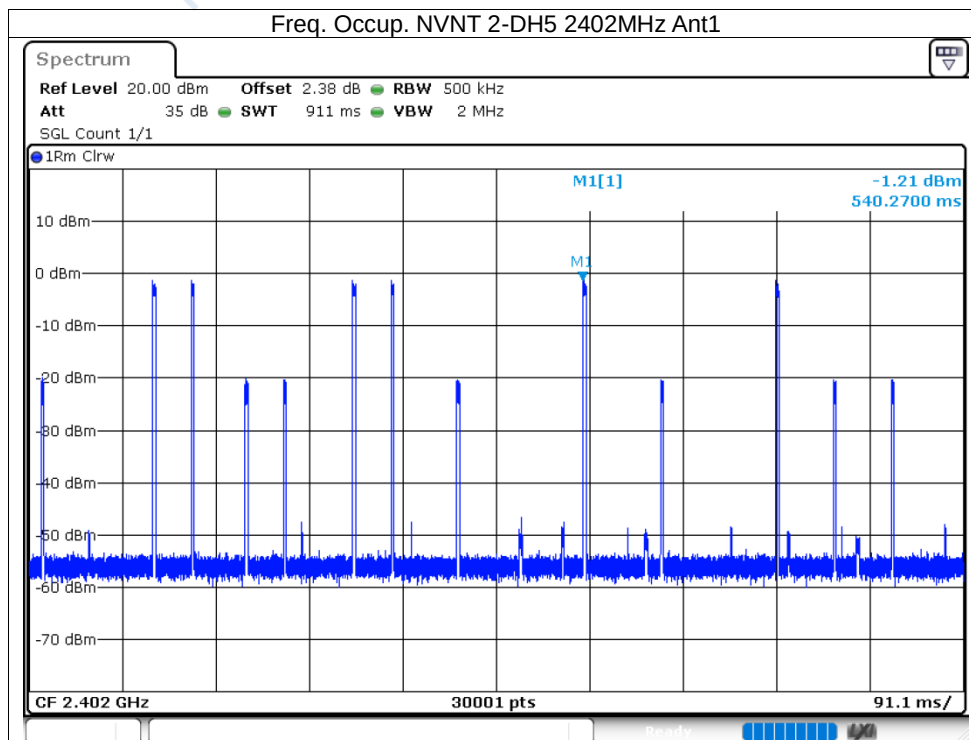


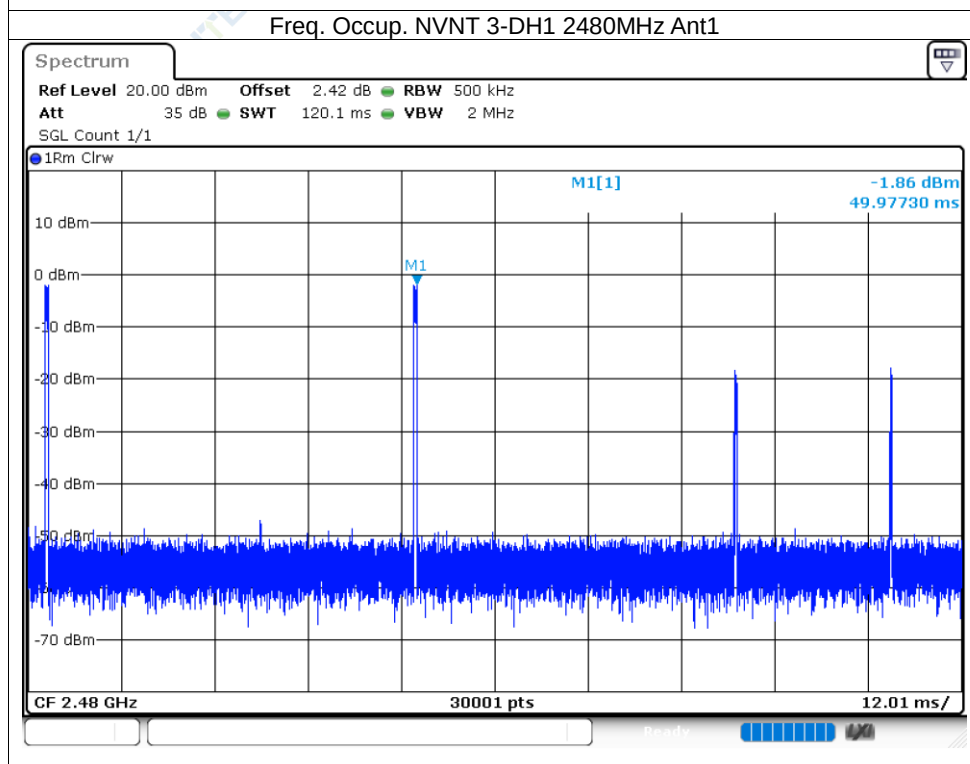
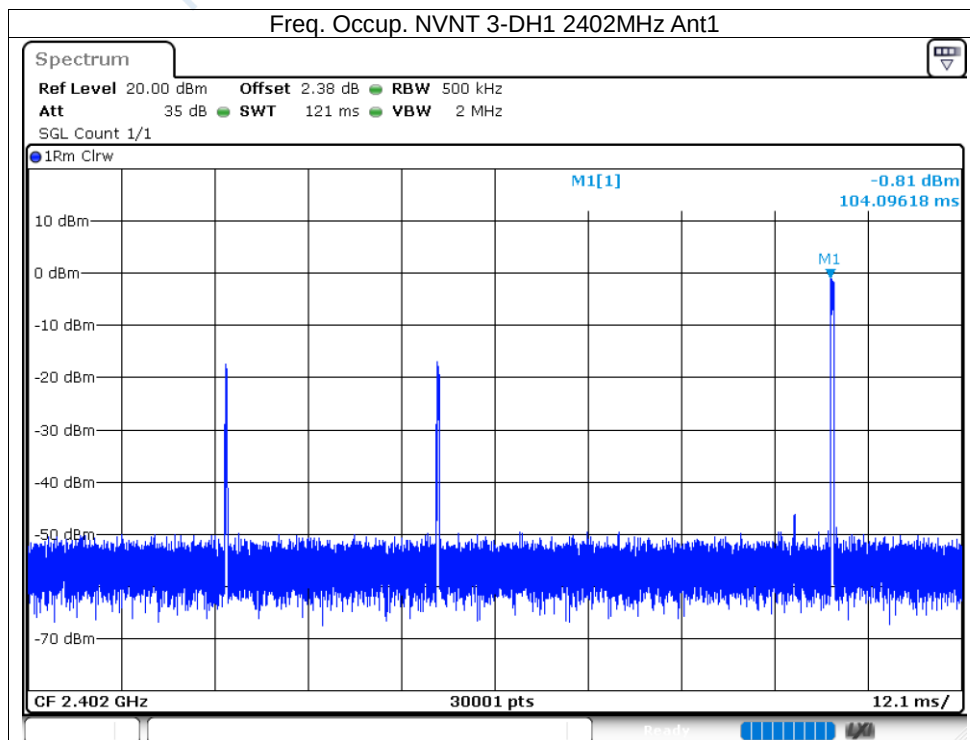


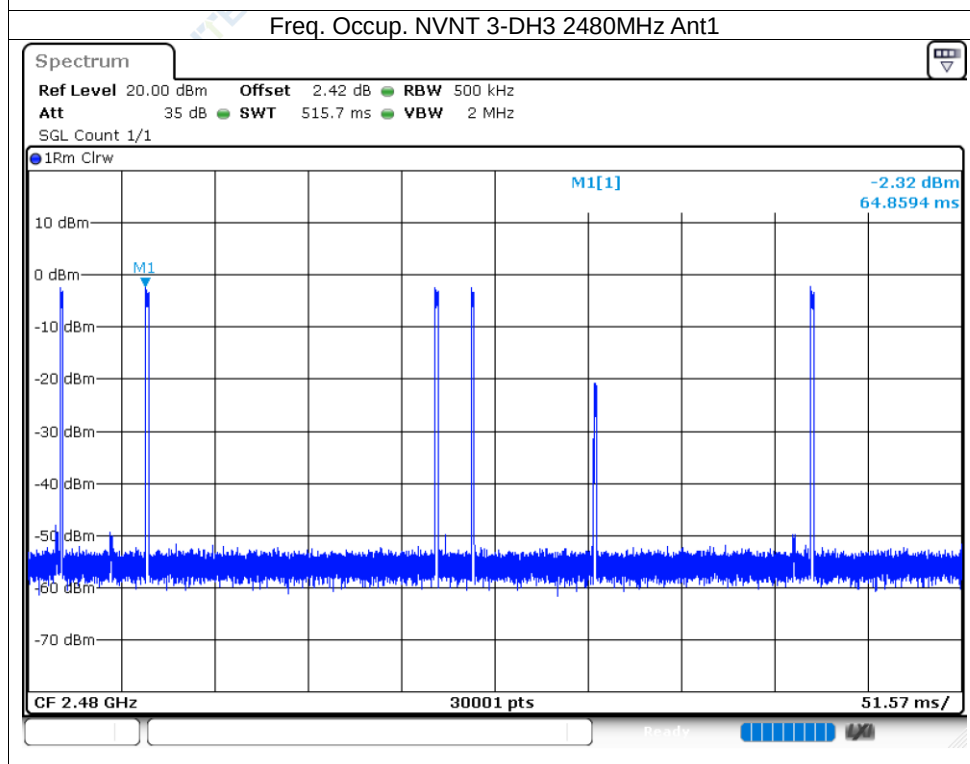
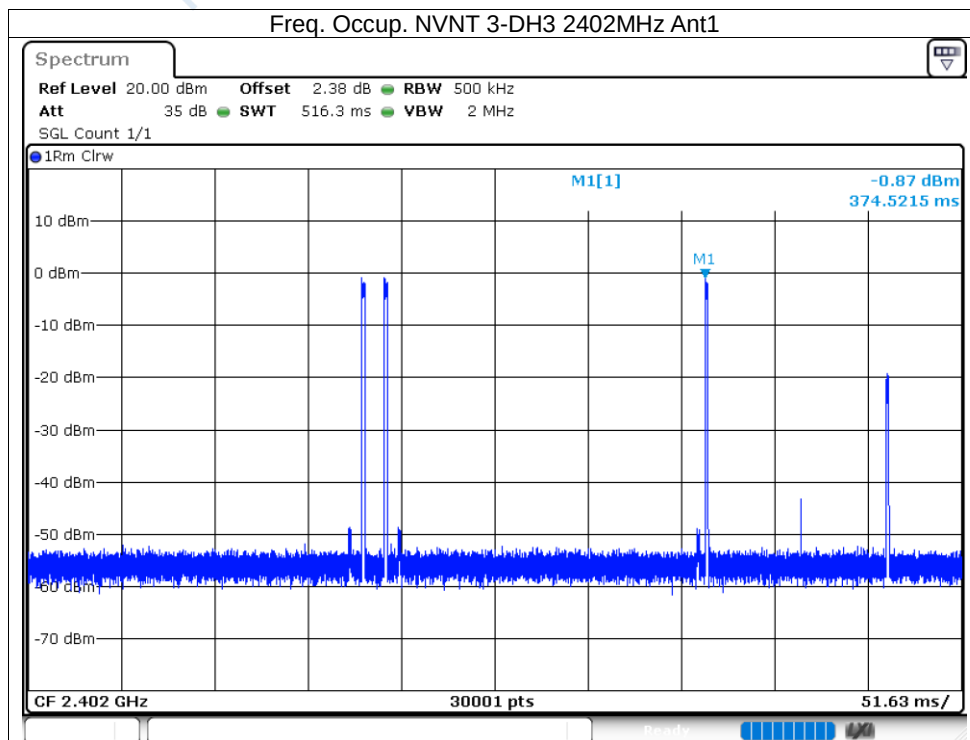


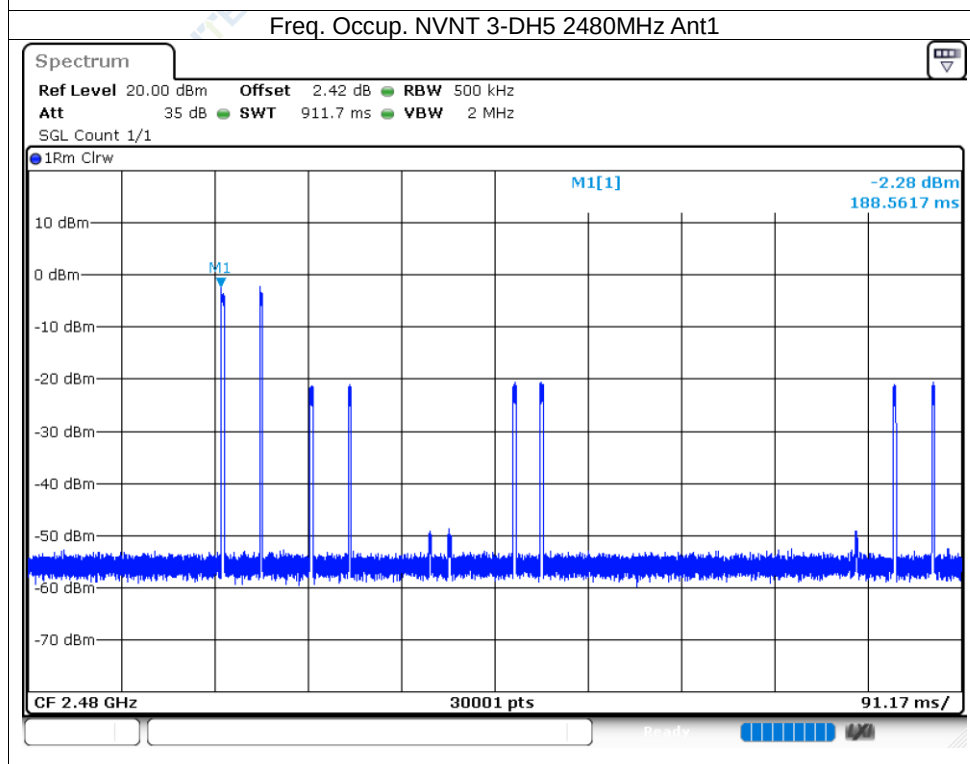
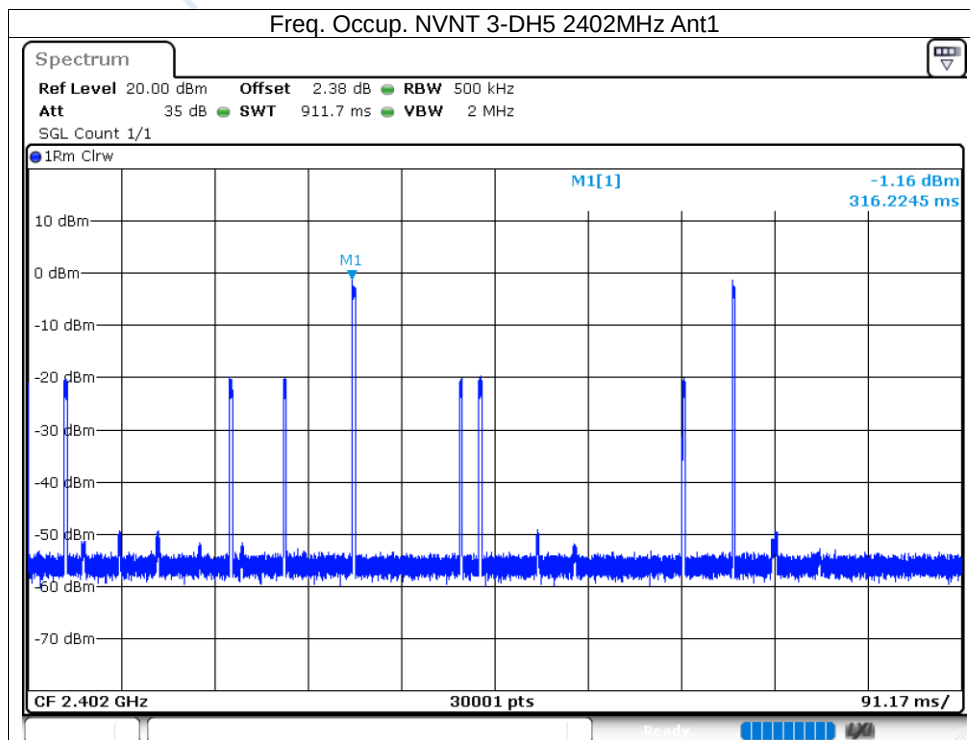






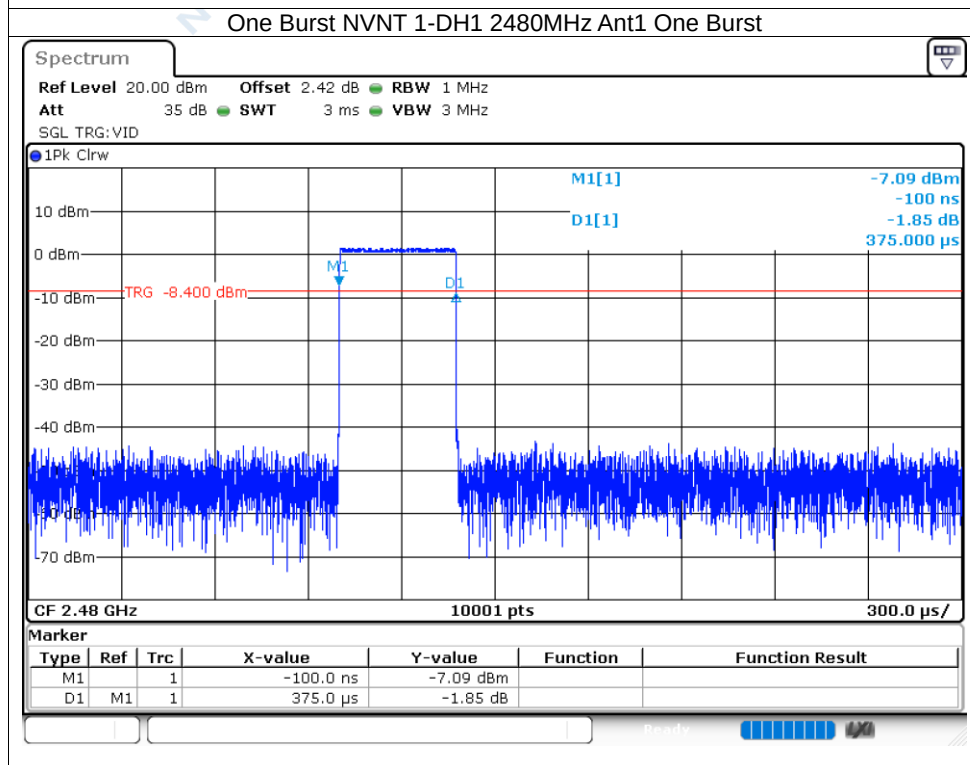
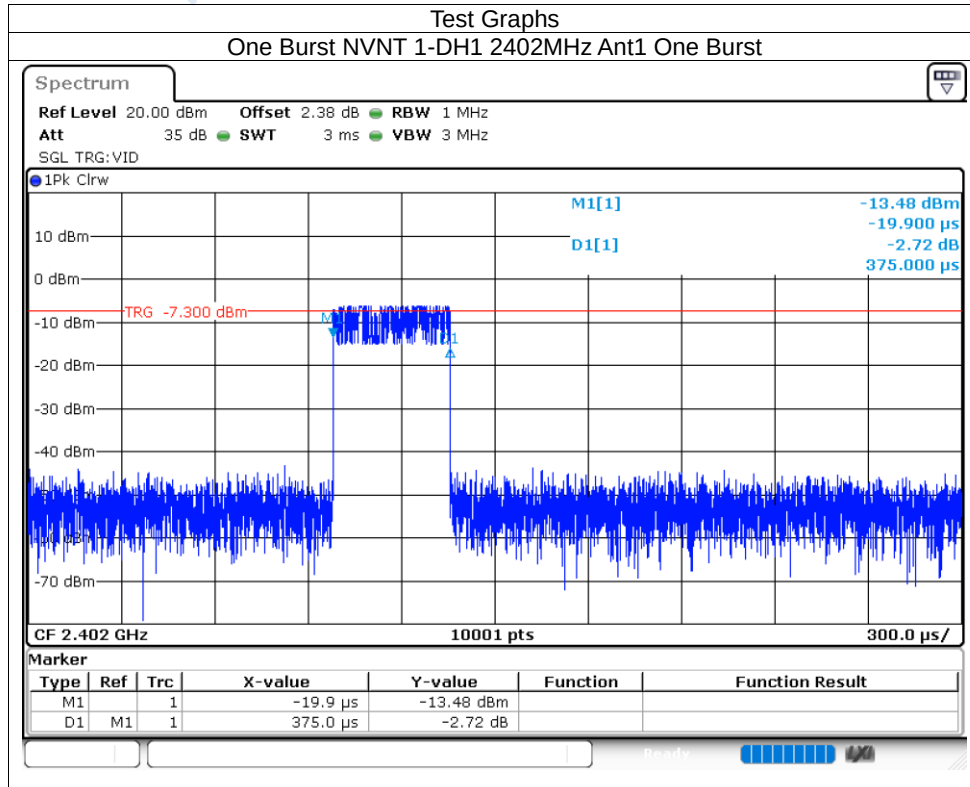


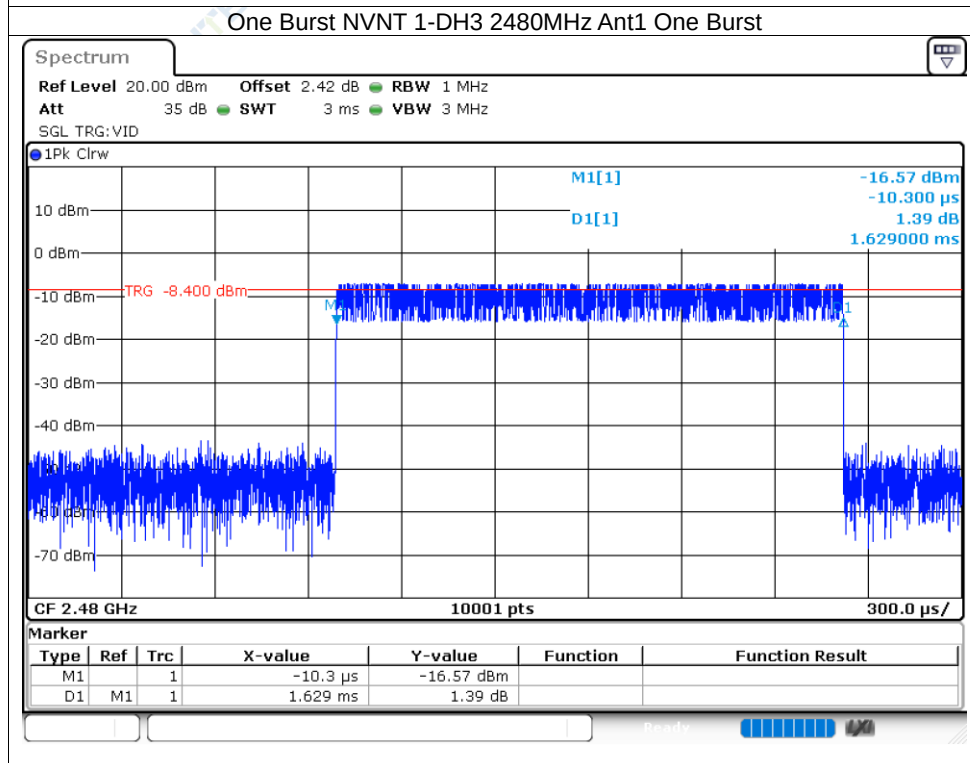
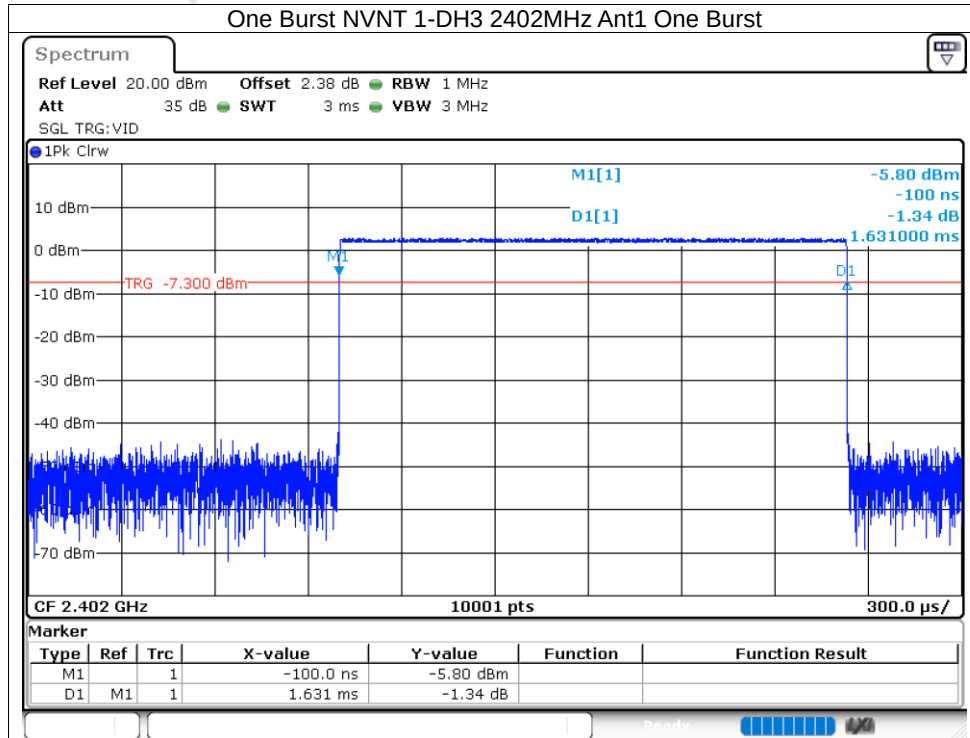


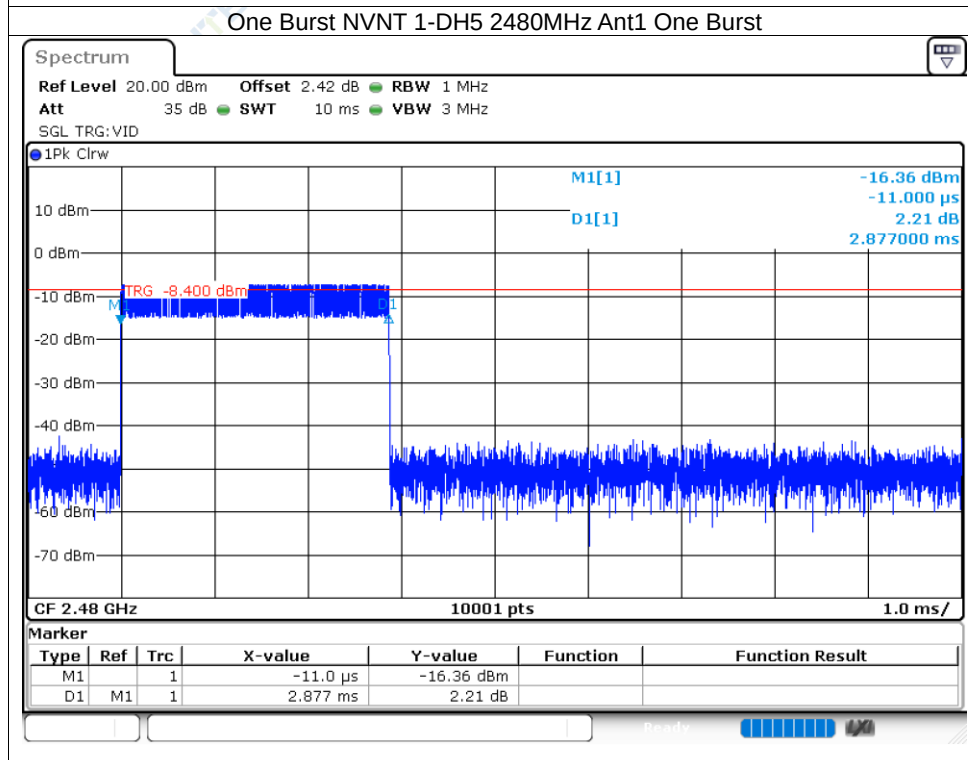
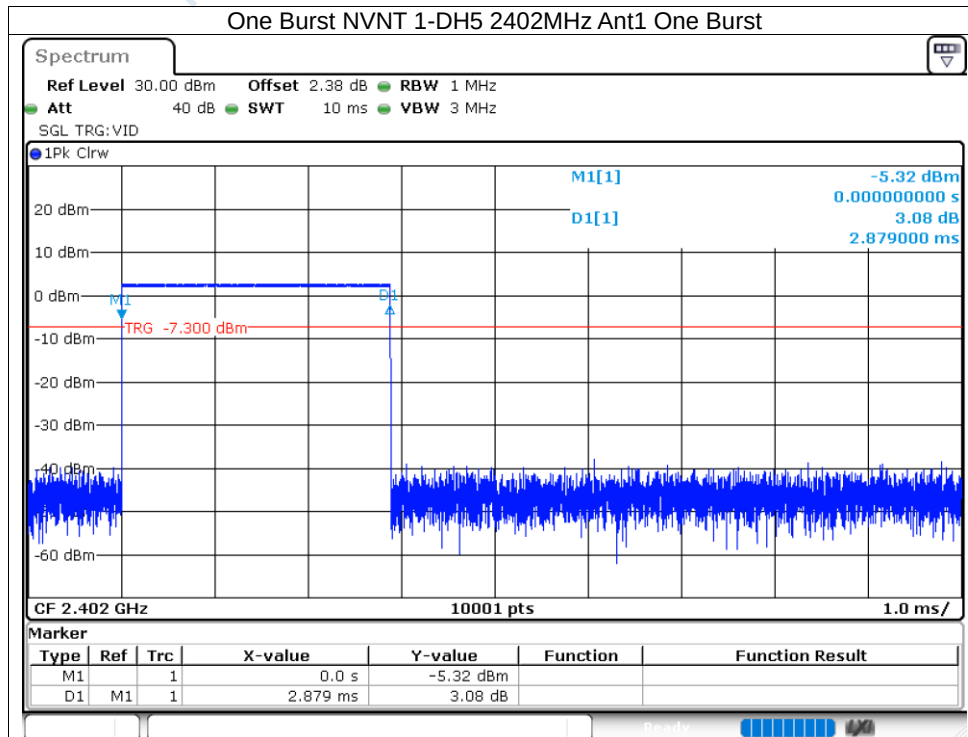


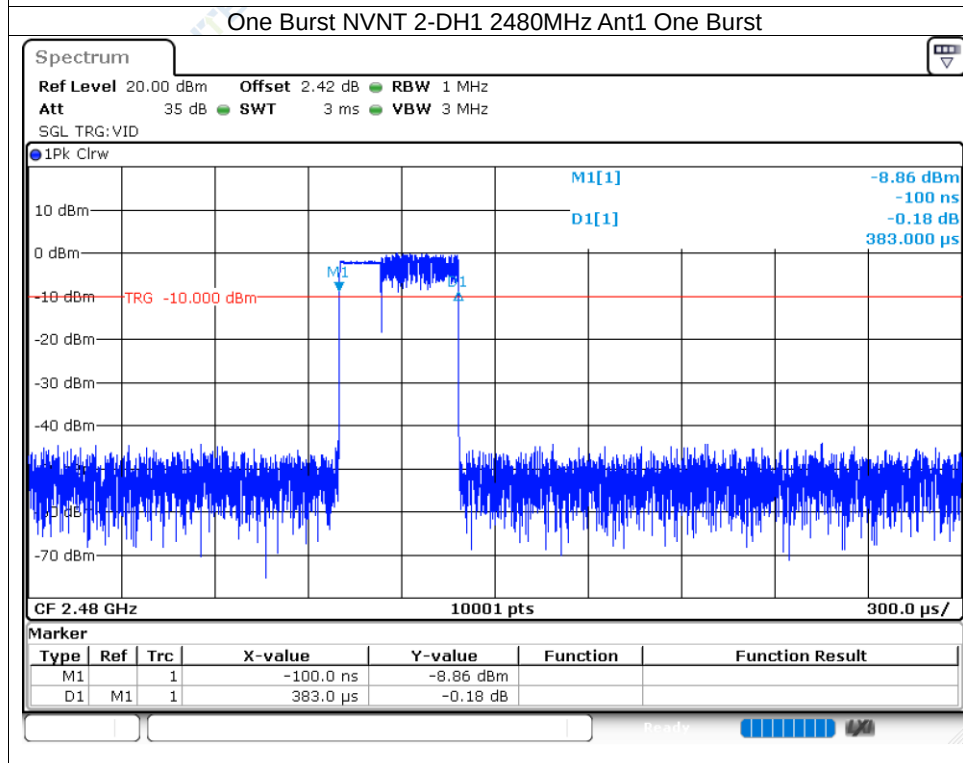
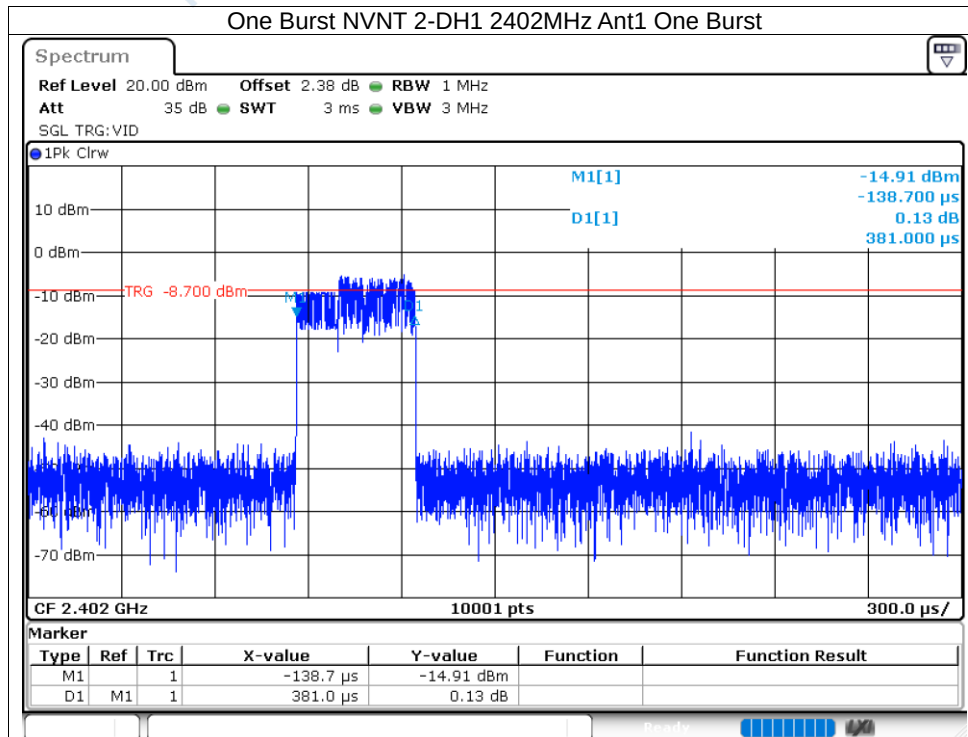
11.1.3 Dwell Time One Burst

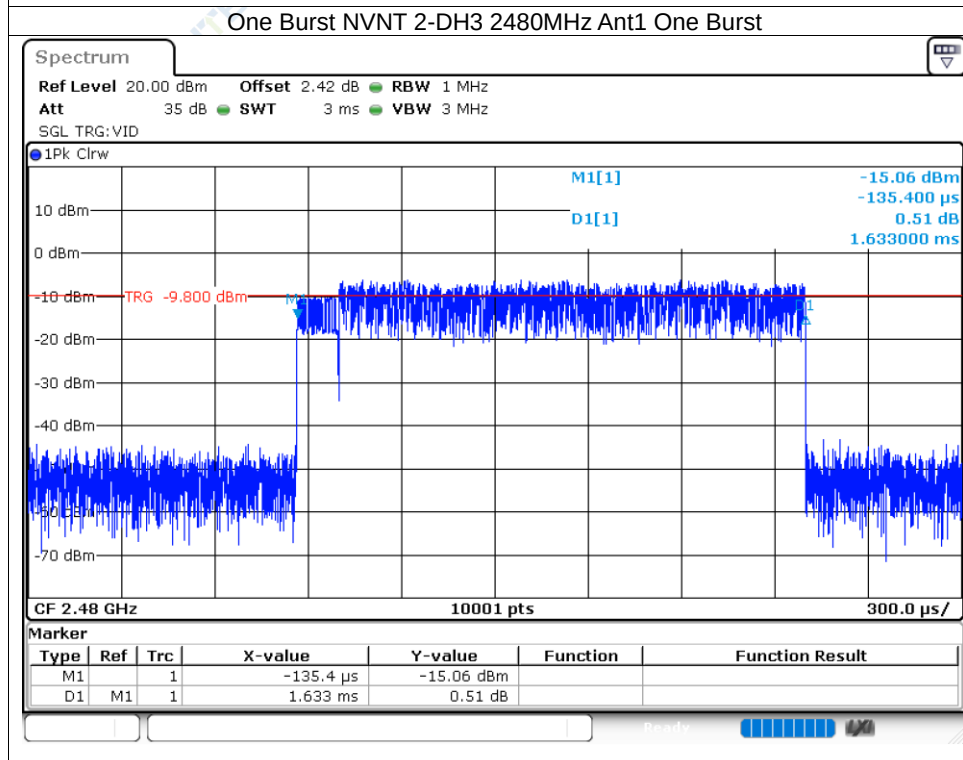
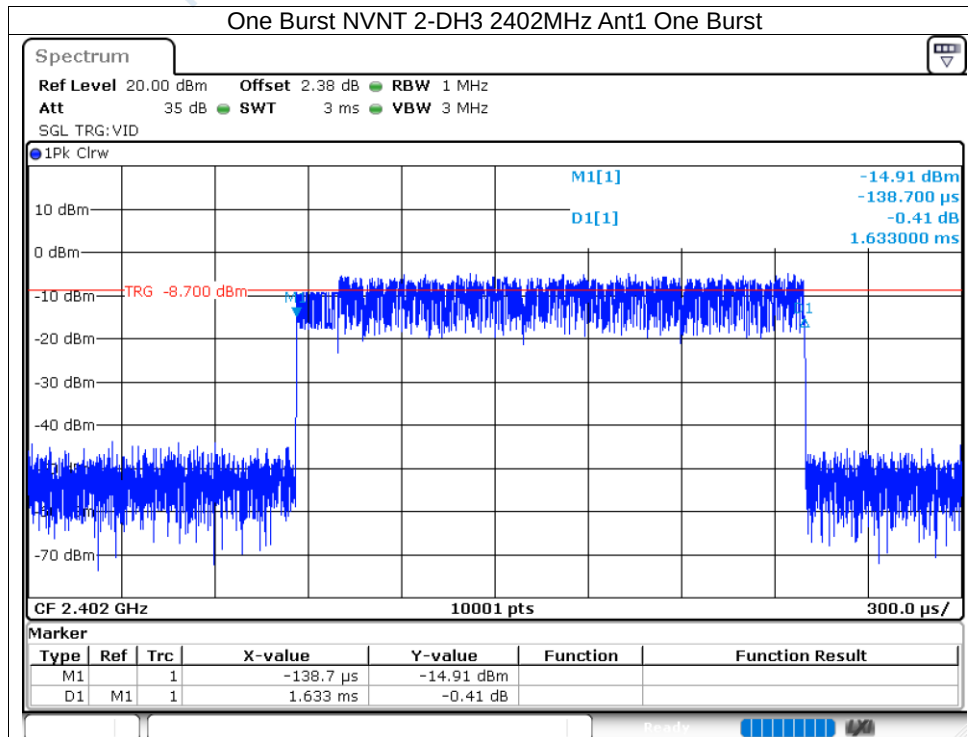
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)
NVNT	1-DH1	2402	Ant1	0.375
NVNT	1-DH1	2480	Ant1	0.375
NVNT	1-DH3	2402	Ant1	1.631
NVNT	1-DH3	2480	Ant1	1.629
NVNT	1-DH5	2402	Ant1	2.879
NVNT	1-DH5	2480	Ant1	2.877
NVNT	2-DH1	2402	Ant1	0.381
NVNT	2-DH1	2480	Ant1	0.383
NVNT	2-DH3	2402	Ant1	1.633
NVNT	2-DH3	2480	Ant1	1.633
NVNT	2-DH5	2402	Ant1	2.883
NVNT	2-DH5	2480	Ant1	2.881
NVNT	3-DH1	2402	Ant1	0.383
NVNT	3-DH1	2480	Ant1	0.38
NVNT	3-DH3	2402	Ant1	1.634
NVNT	3-DH3	2480	Ant1	1.632
NVNT	3-DH5	2402	Ant1	2.885
NVNT	3-DH5	2480	Ant1	2.885

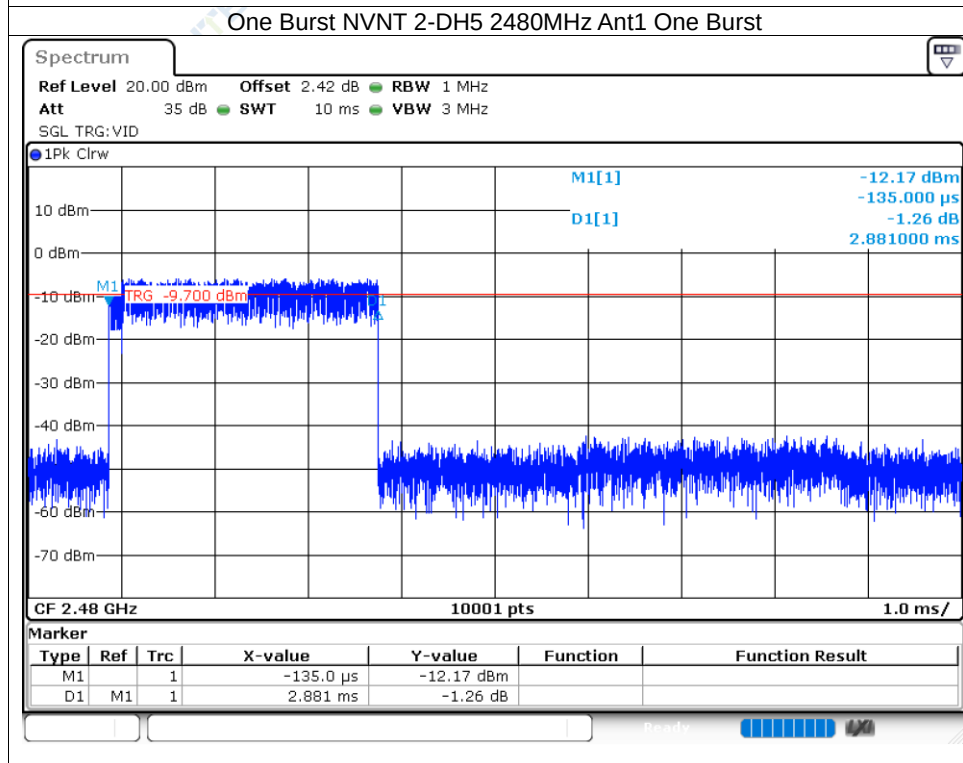
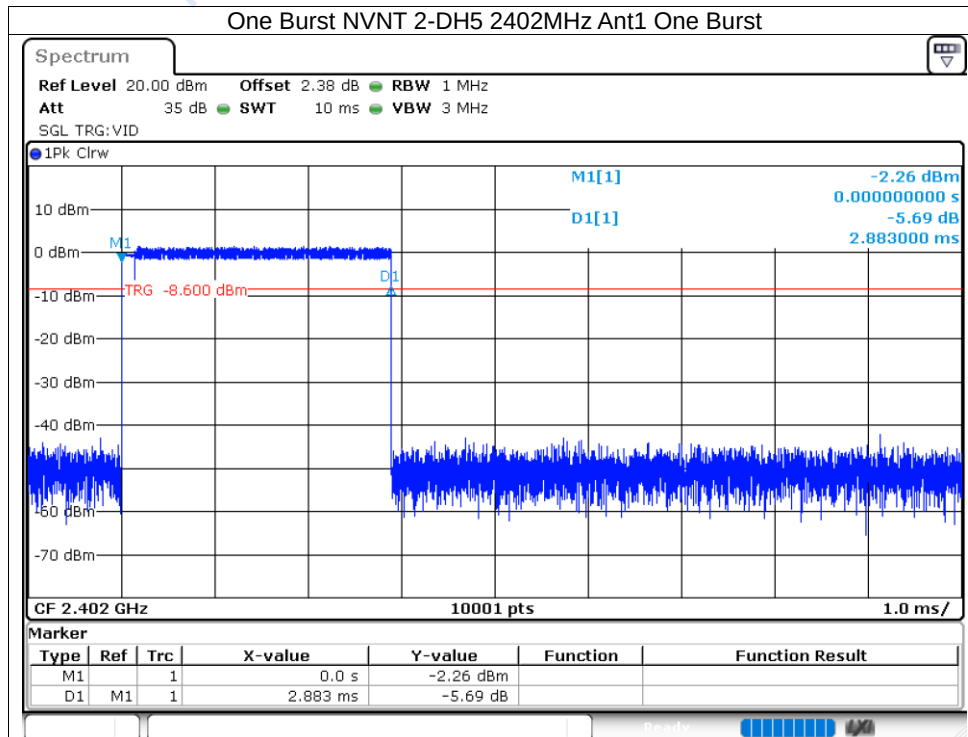


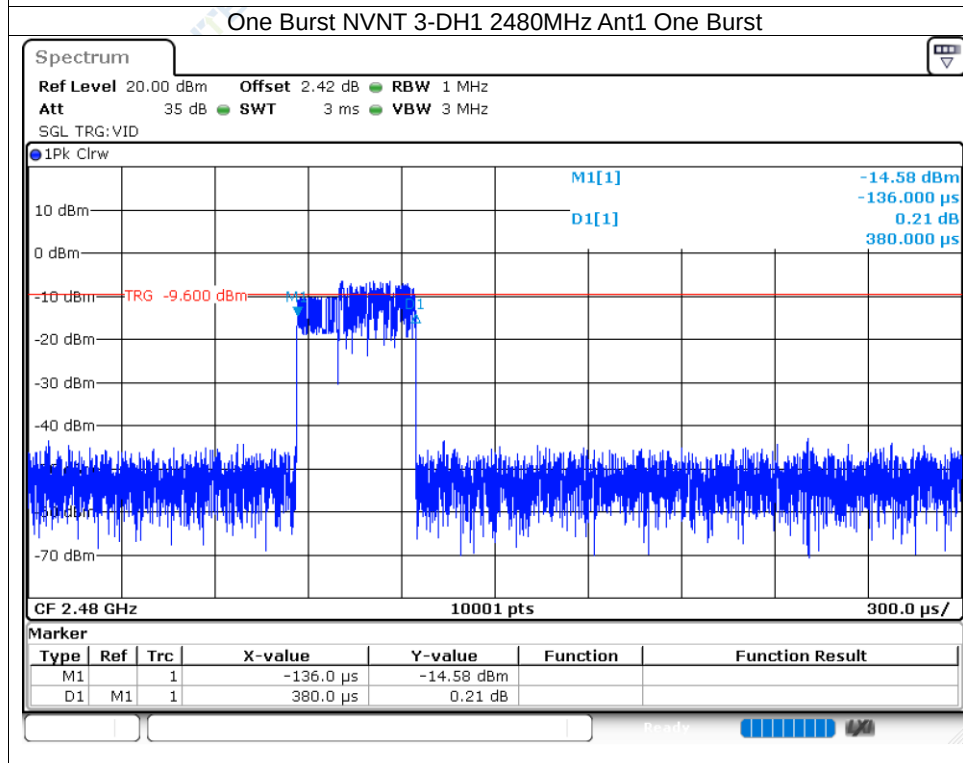
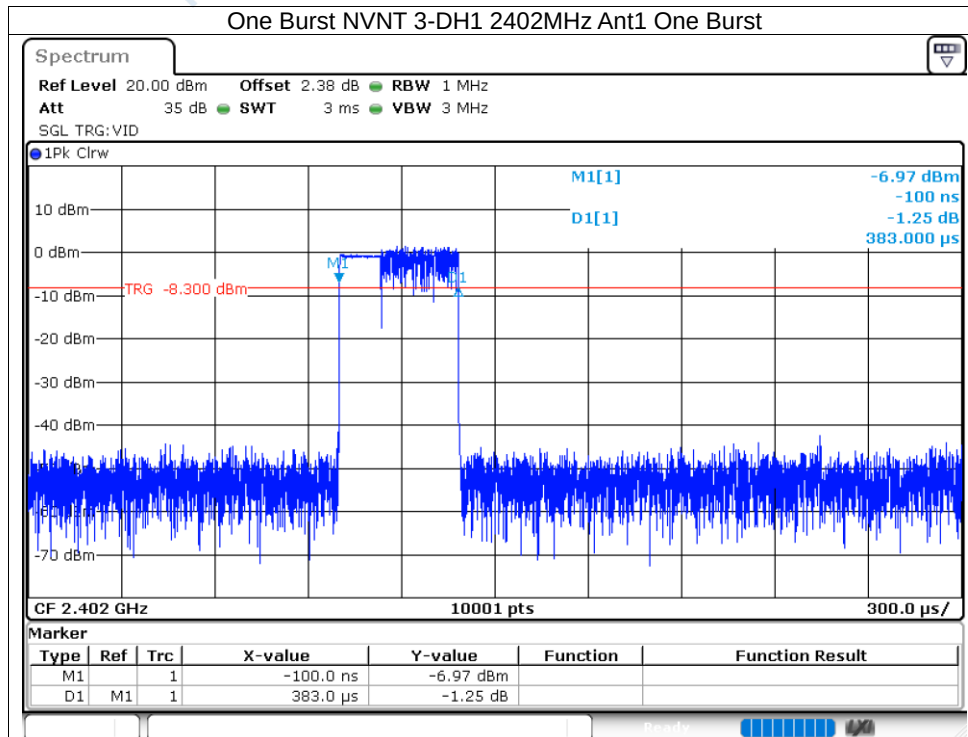


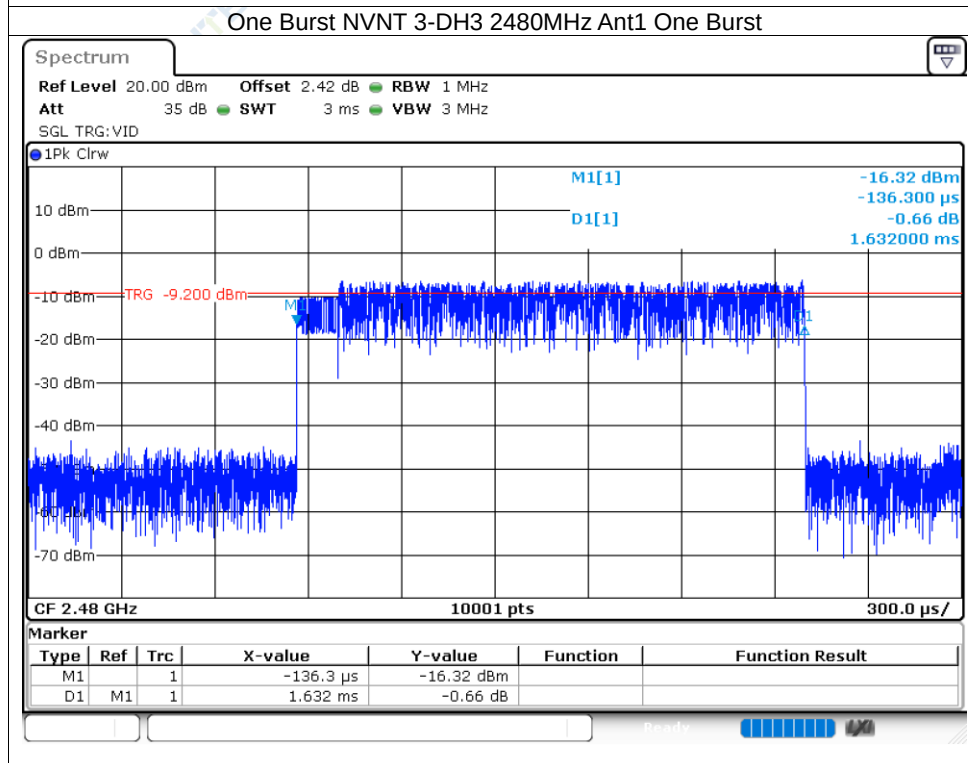
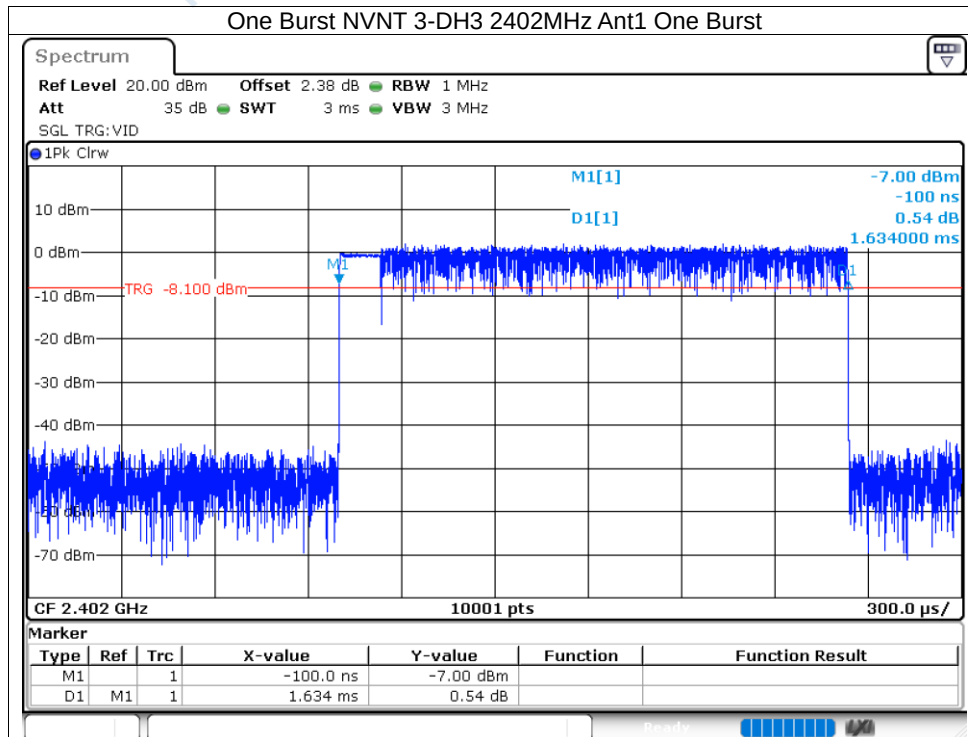


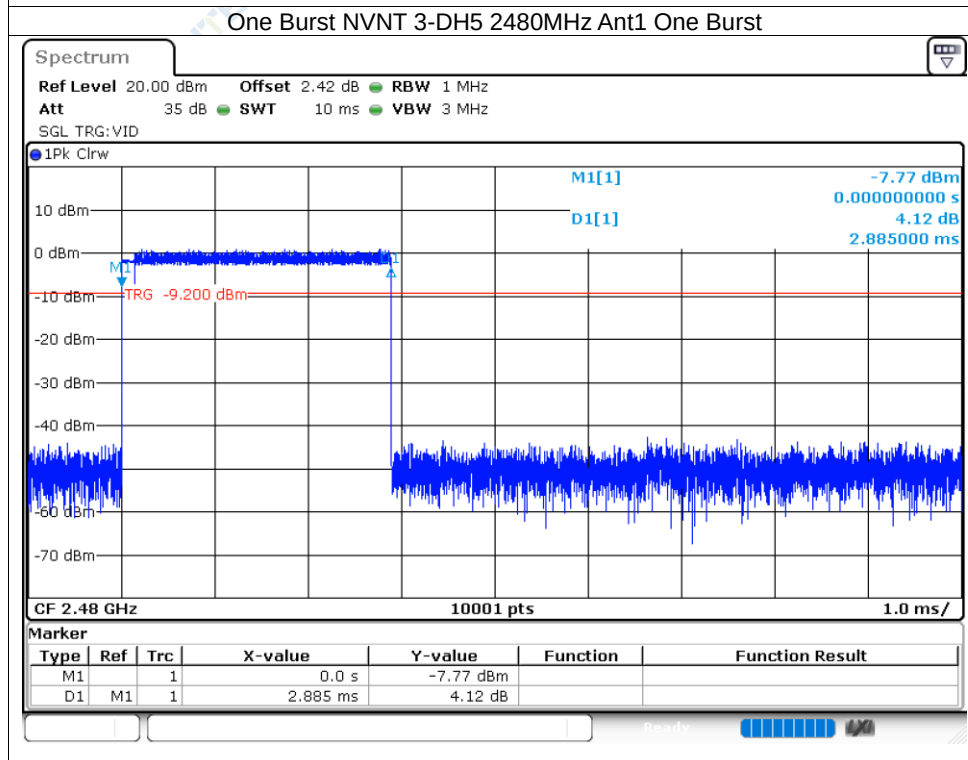
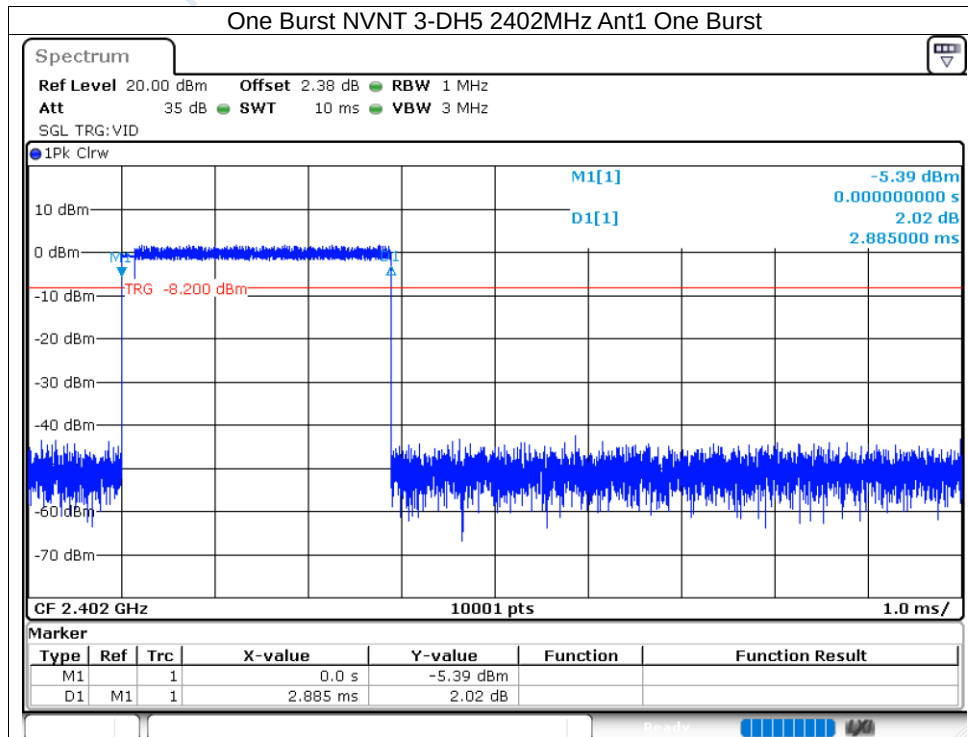






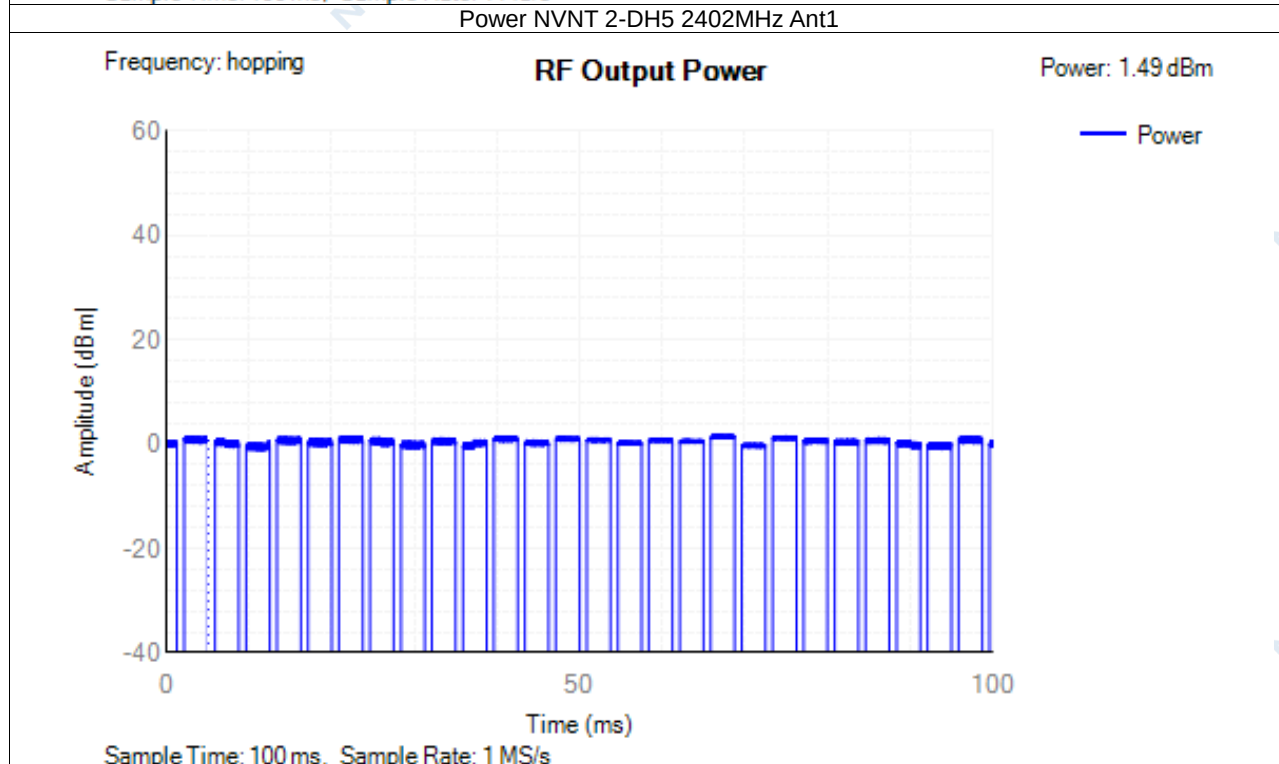
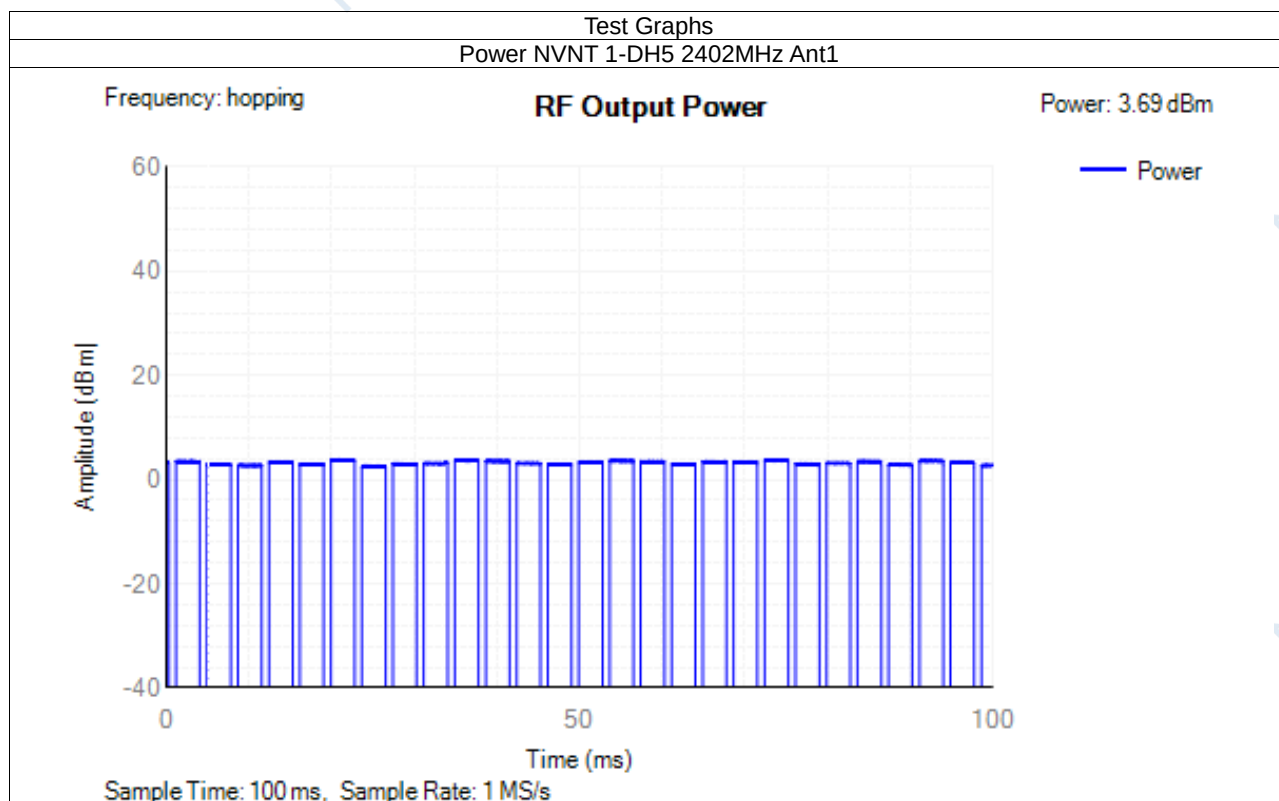


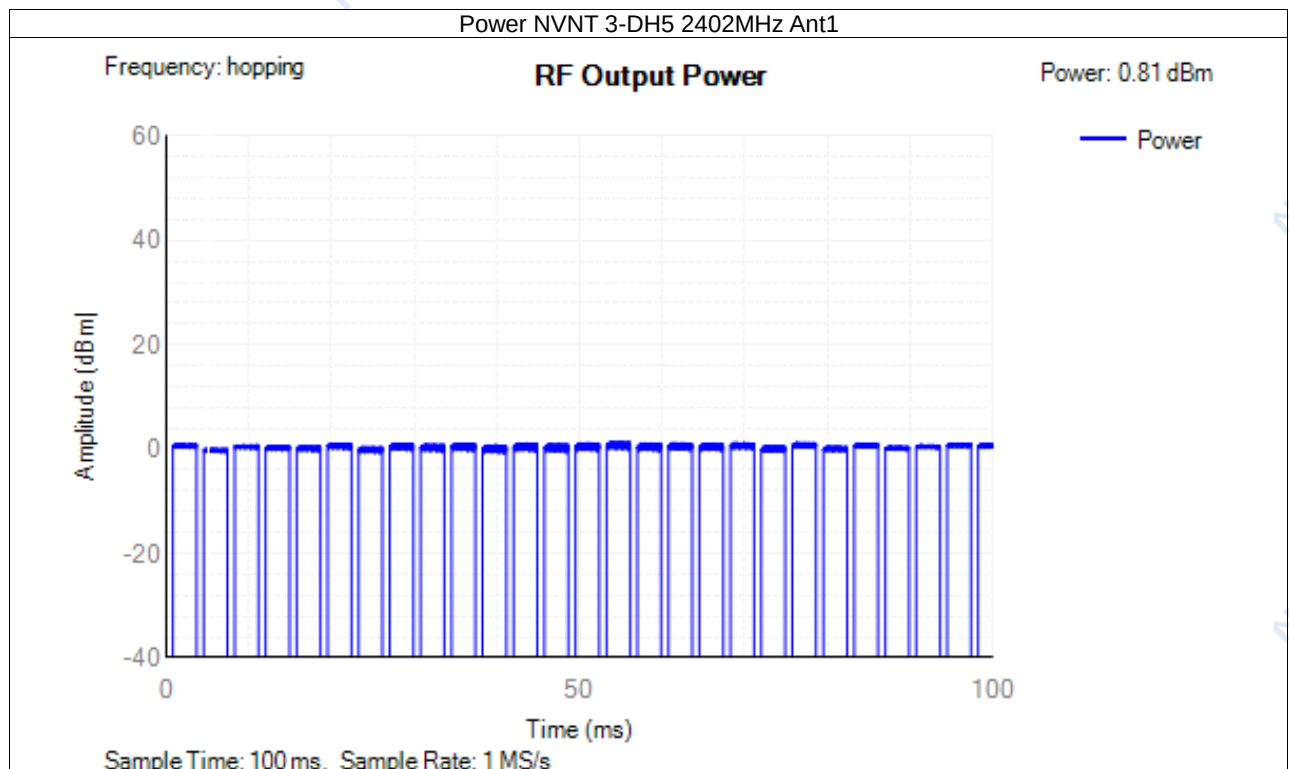




11.1.4 RF Output Power

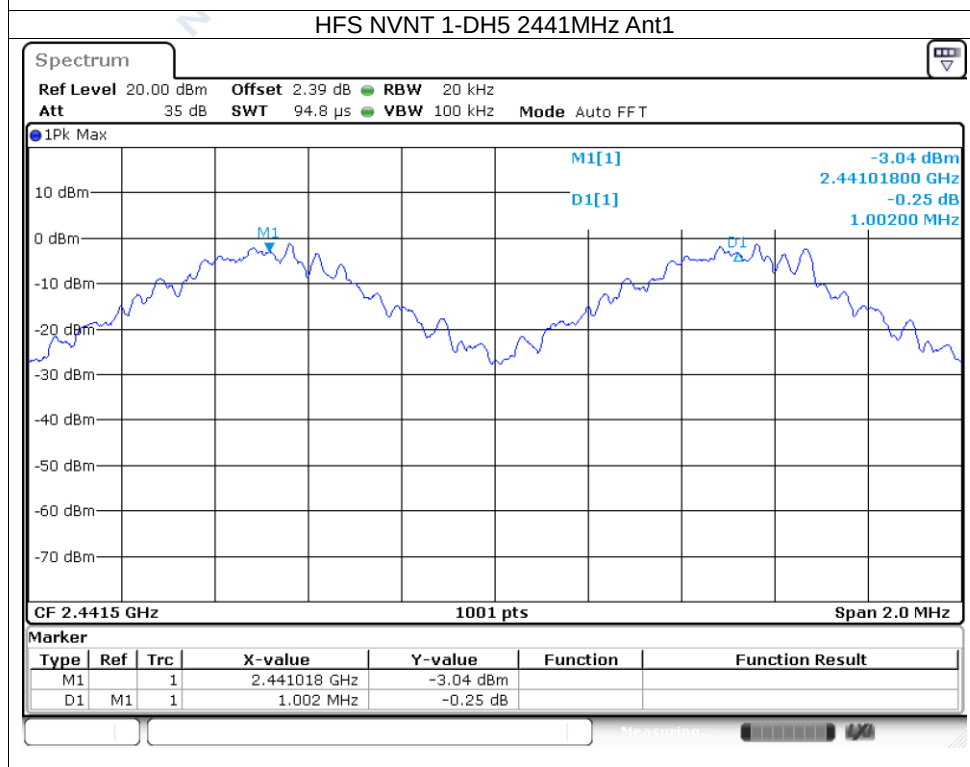
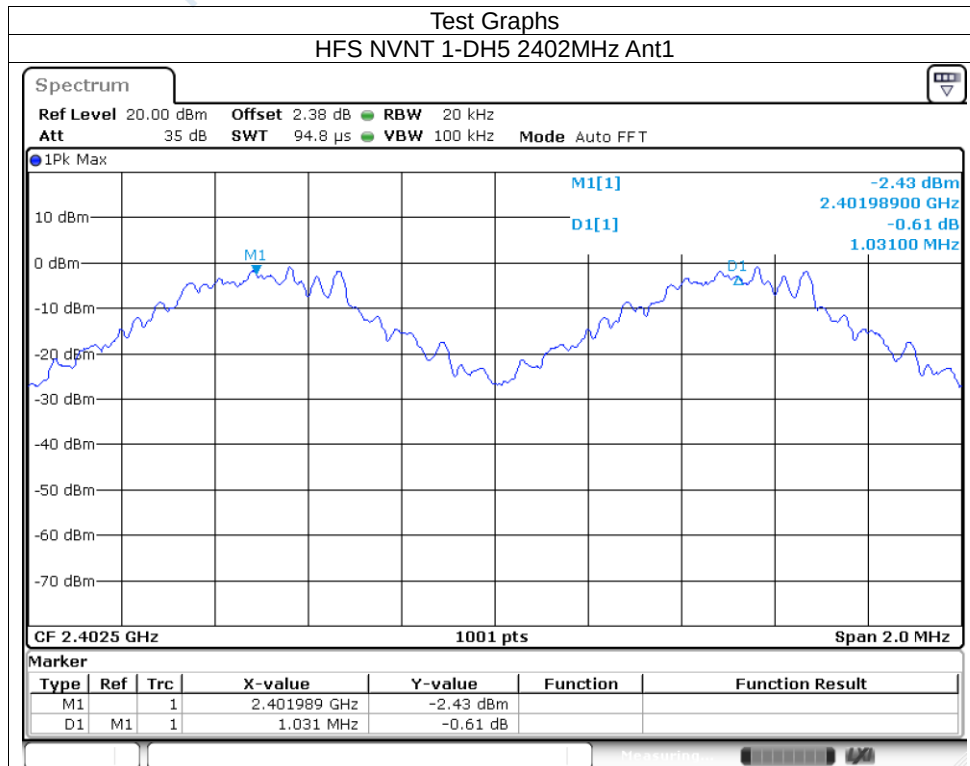
Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	hopping	Ant1	3.69	28	5.07	20	Pass
NVNT	2-DH5	hopping	Ant1	1.49	28	2.87	20	Pass
NVNT	3-DH5	hopping	Ant1	0.81	27	2.19	20	Pass
NVLT	1-DH5	hopping	Ant1	3.52	28	4.9	20	Pass
NVLT	2-DH5	hopping	Ant1	1.48	28	2.86	20	Pass
NVLT	3-DH5	hopping	Ant1	0.61	27	1.99	20	Pass
NVHT	1-DH5	hopping	Ant1	3.65	28	5.03	20	Pass
NVHT	2-DH5	hopping	Ant1	1.44	28	2.82	20	Pass
NVHT	3-DH5	hopping	Ant1	0.66	27	2.04	20	Pass

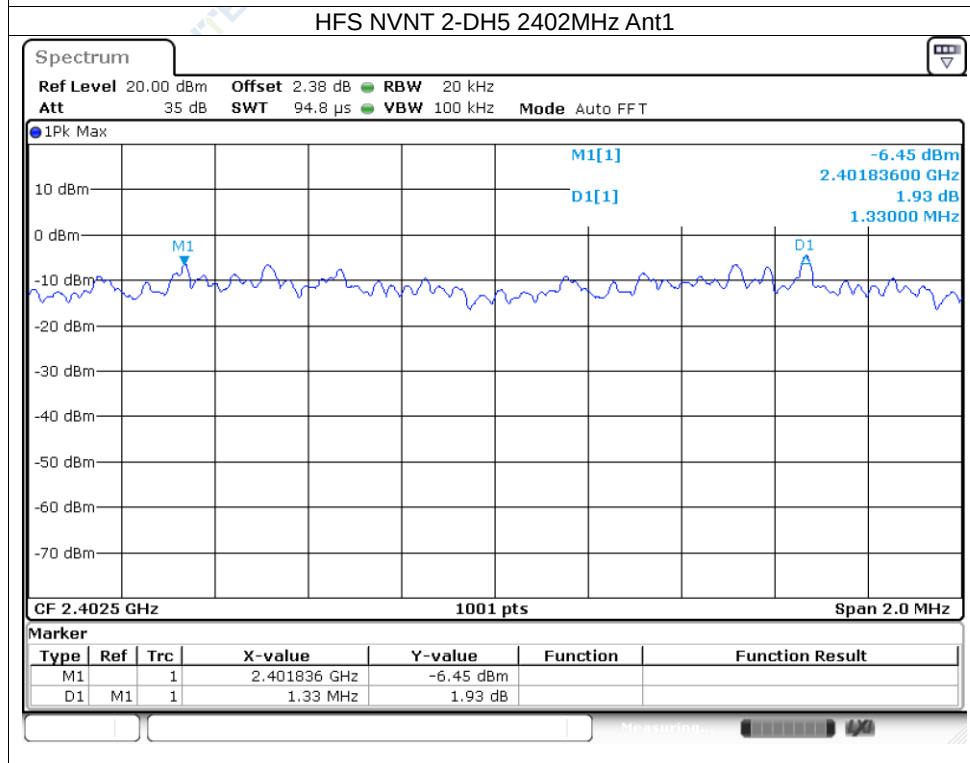
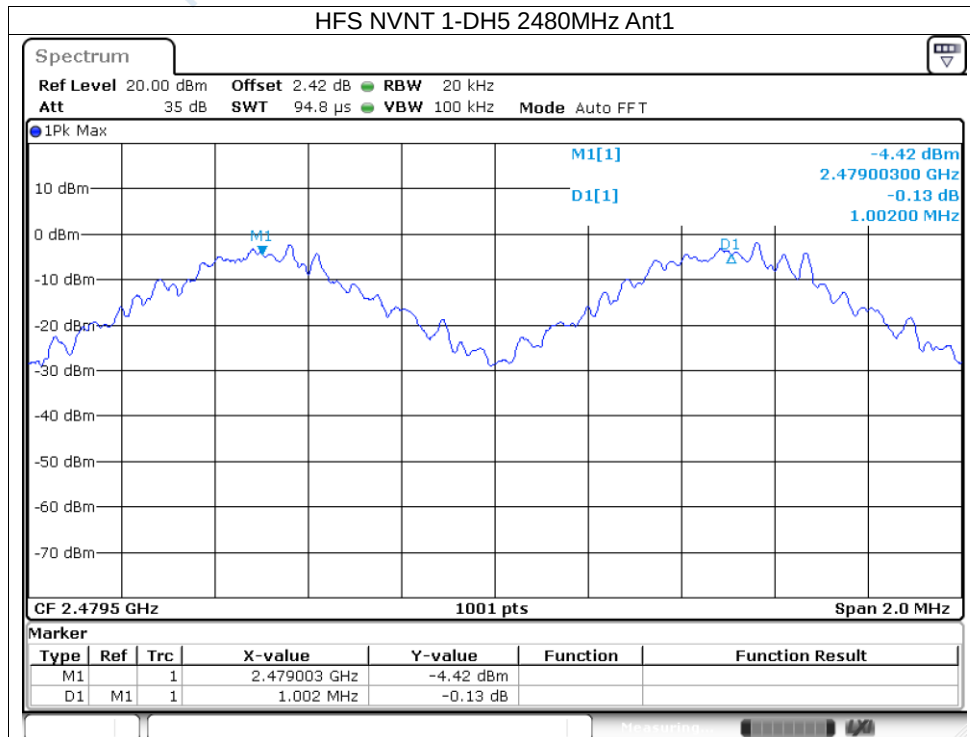


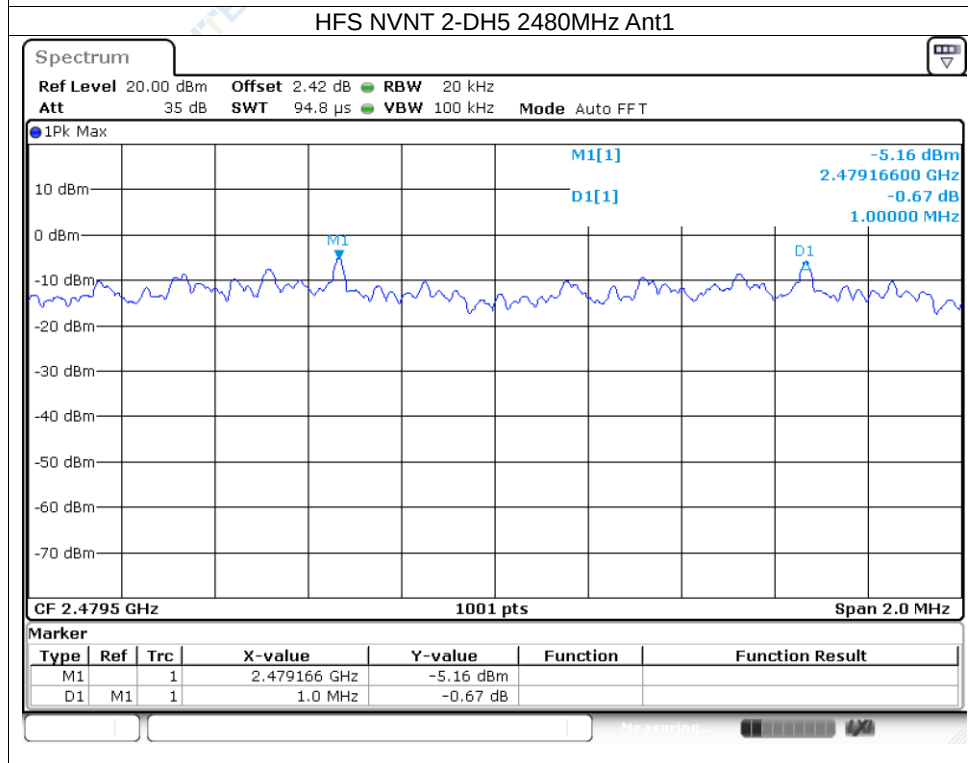
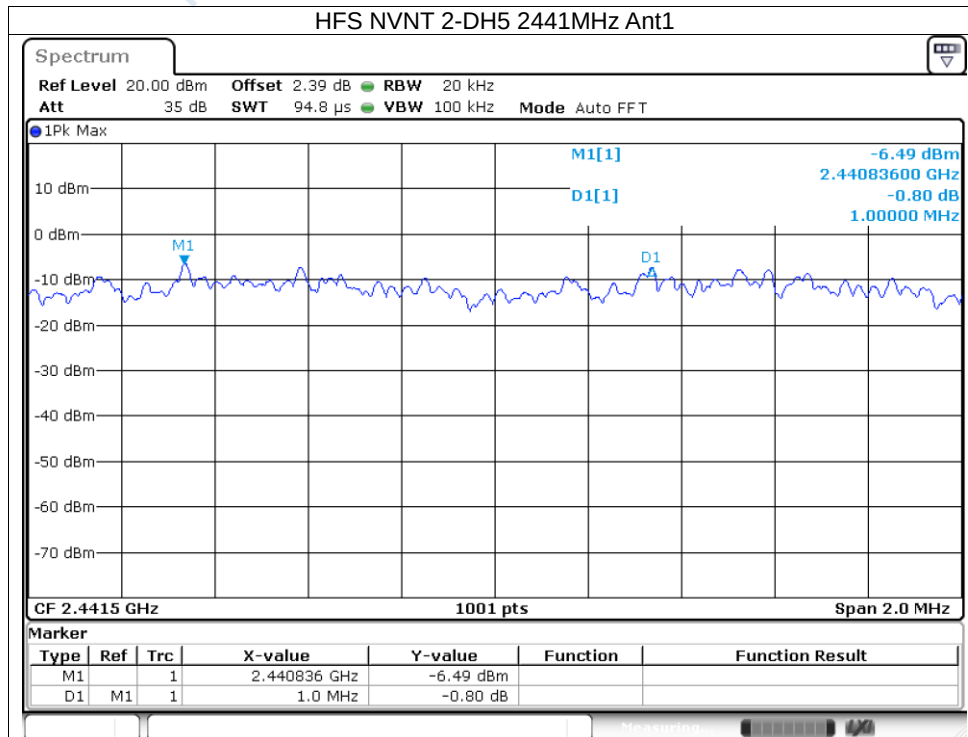


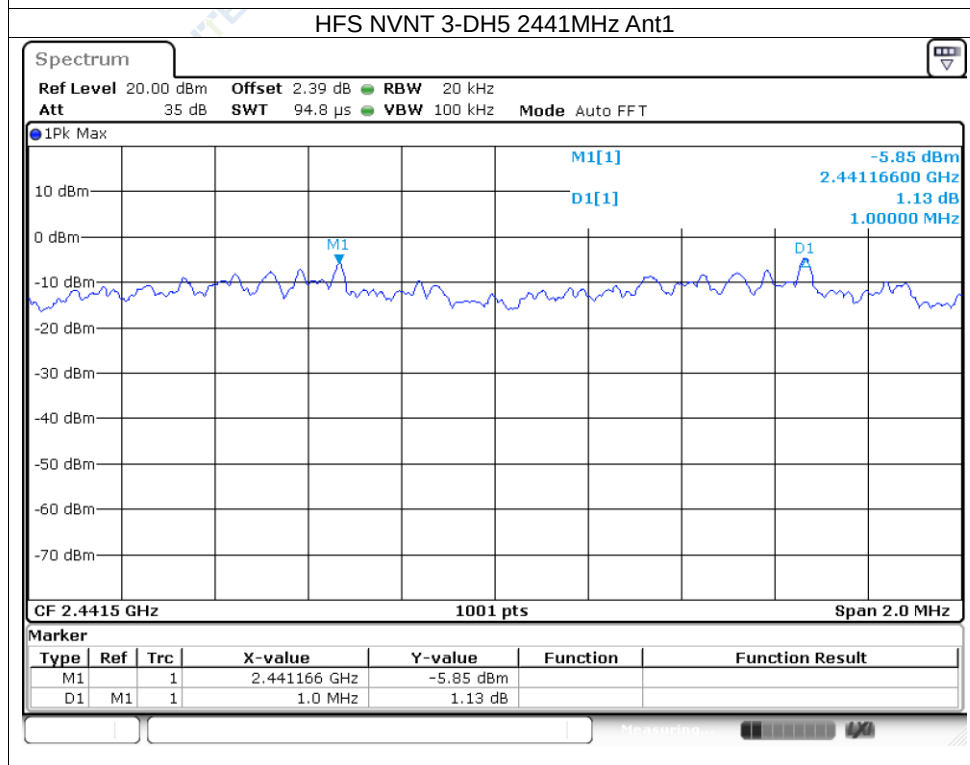
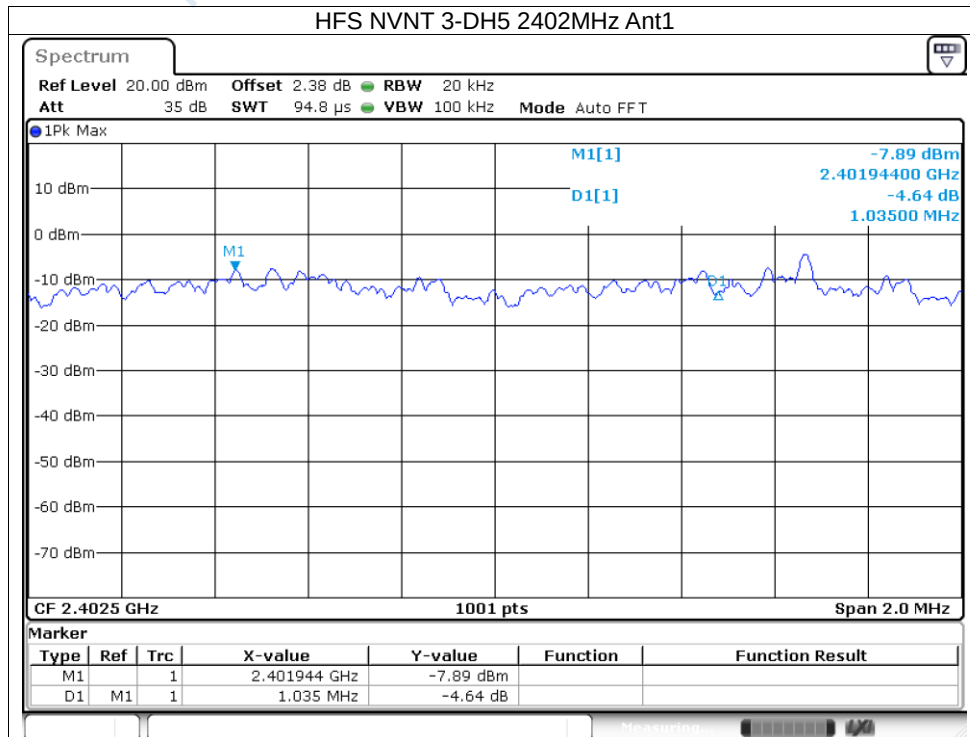
11.1.5 Hopping Frequency Separation

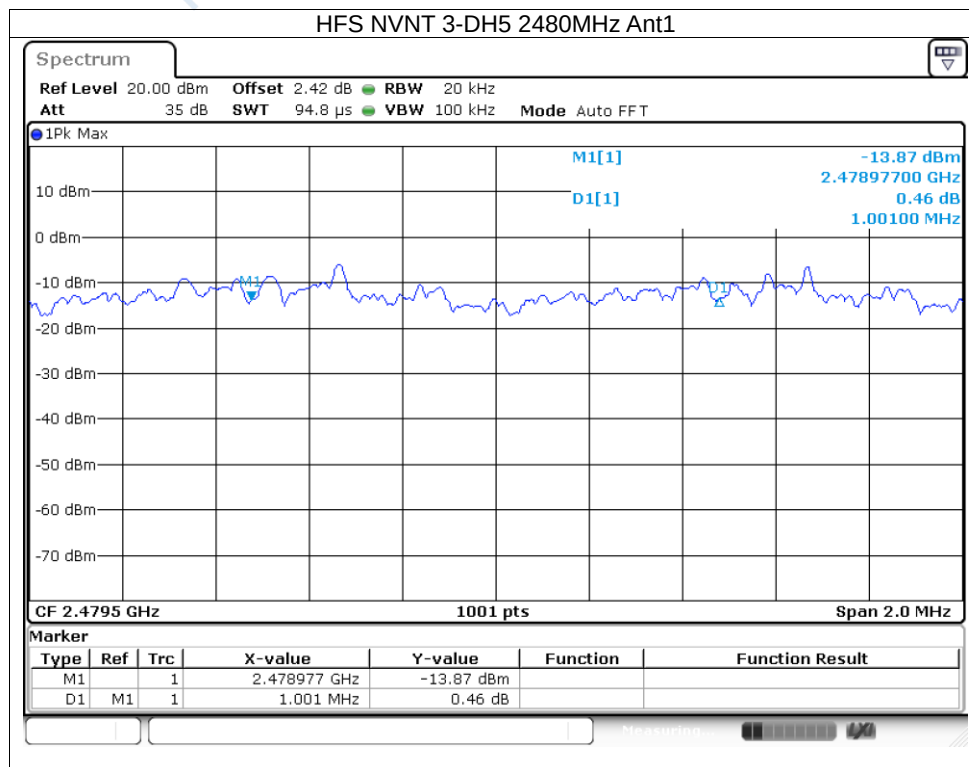
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.989	2403.02	1.031	0.1	Pass
NVNT	1-DH5	Ant1	2441.018	2442.02	1.002	0.1	Pass
NVNT	1-DH5	Ant1	2479.003	2480.005	1.002	0.1	Pass
NVNT	2-DH5	Ant1	2401.836	2403.166	1.33	0.1	Pass
NVNT	2-DH5	Ant1	2440.836	2441.836	1	0.1	Pass
NVNT	2-DH5	Ant1	2479.166	2480.166	1	0	Pass
NVNT	3-DH5	Ant1	2401.944	2402.979	1.035	0.1	Pass
NVNT	3-DH5	Ant1	2441.166	2442.166	1	0.1	Pass
NVNT	3-DH5	Ant1	2478.977	2479.978	1.001	0.1	Pass





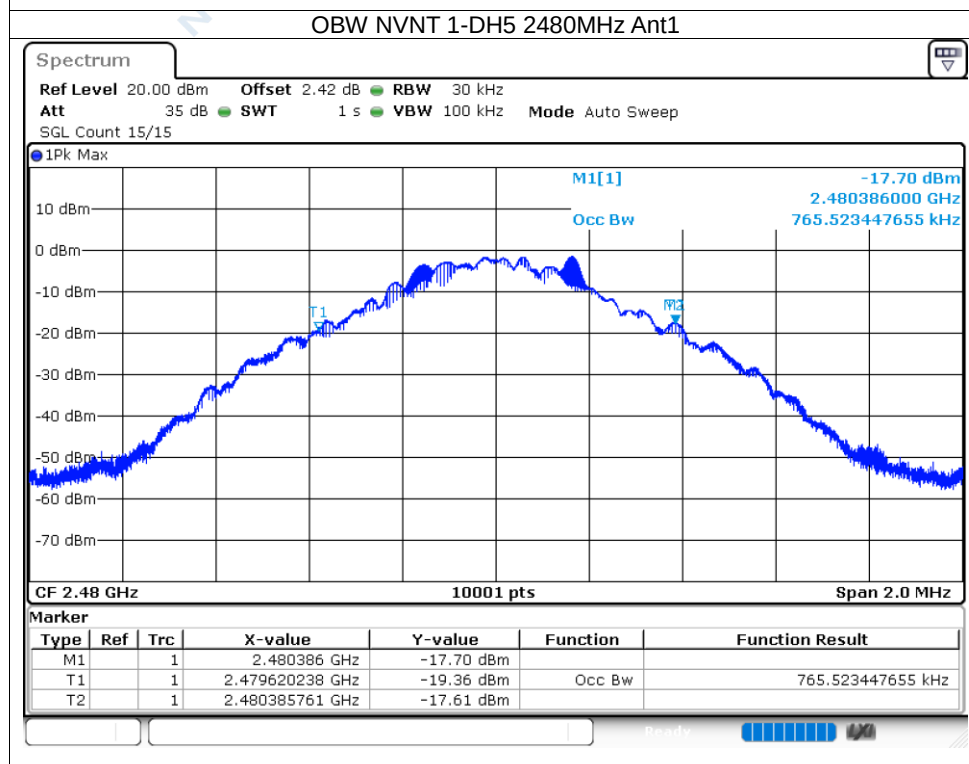
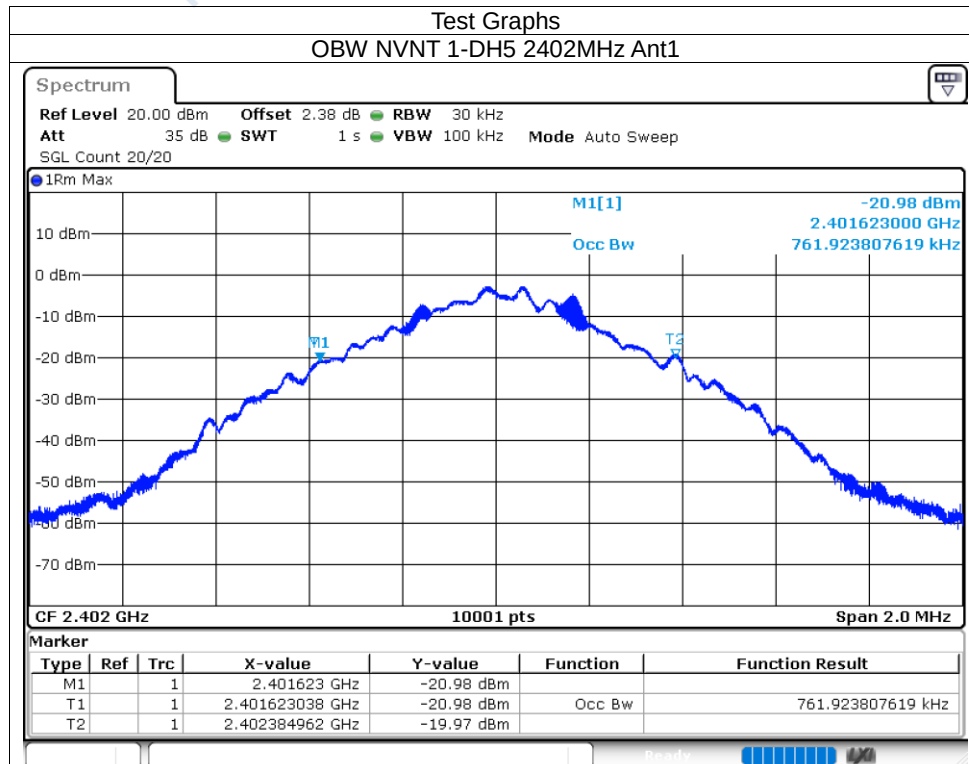






11.1.6 Occupied Channel Bandwidth

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	2402.004	0.762	2401.623	2402.385	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	Ant1	2480.003	0.766	2479.62	2480.386	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	Ant1	2401.998	1.187	2401.404	2402.591	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	Ant1	2479.996	1.182	2479.405	2480.587	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	Ant1	2401.996	1.199	2401.397	2402.596	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	Ant1	2479.996	1.198	2479.397	2480.595	2400 - 2483.5MHz	Pass

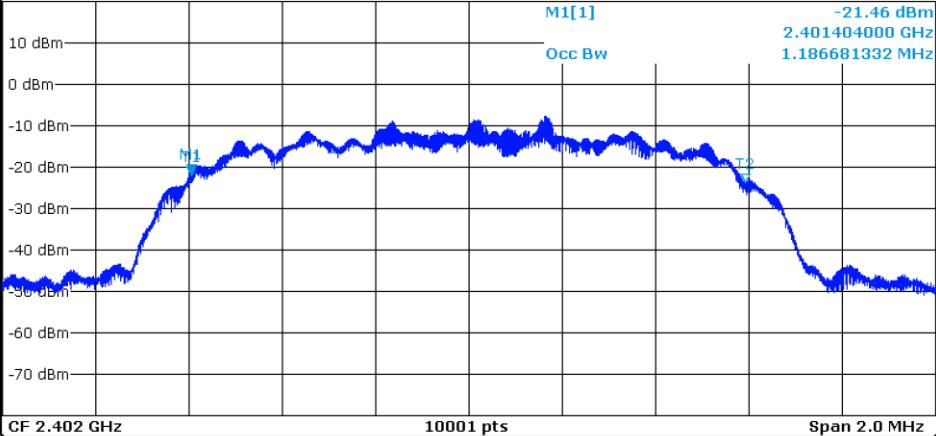


OBW NVNT 2-DH5 2402MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 30 kHz
Att 35 dB SWT 1 s VBW 100 kHz Mode Auto Sweep
SGL Count 10/10

1Rm Max



Marker

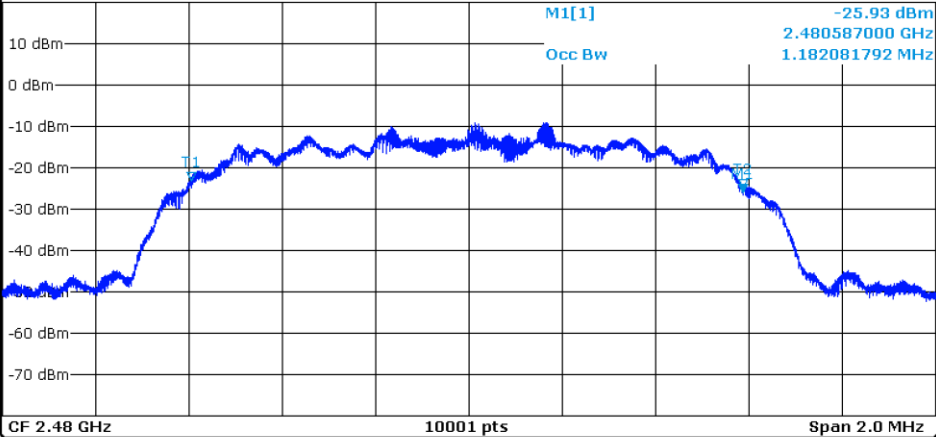
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.401404 GHz	-21.46 dBm		
T1	1		2.40140446 GHz	-21.98 dBm	Occ Bw	1.186681332 MHz
T2	1		2.402591141 GHz	-23.66 dBm		

OBW NVNT 2-DH5 2480MHz Ant1

Spectrum

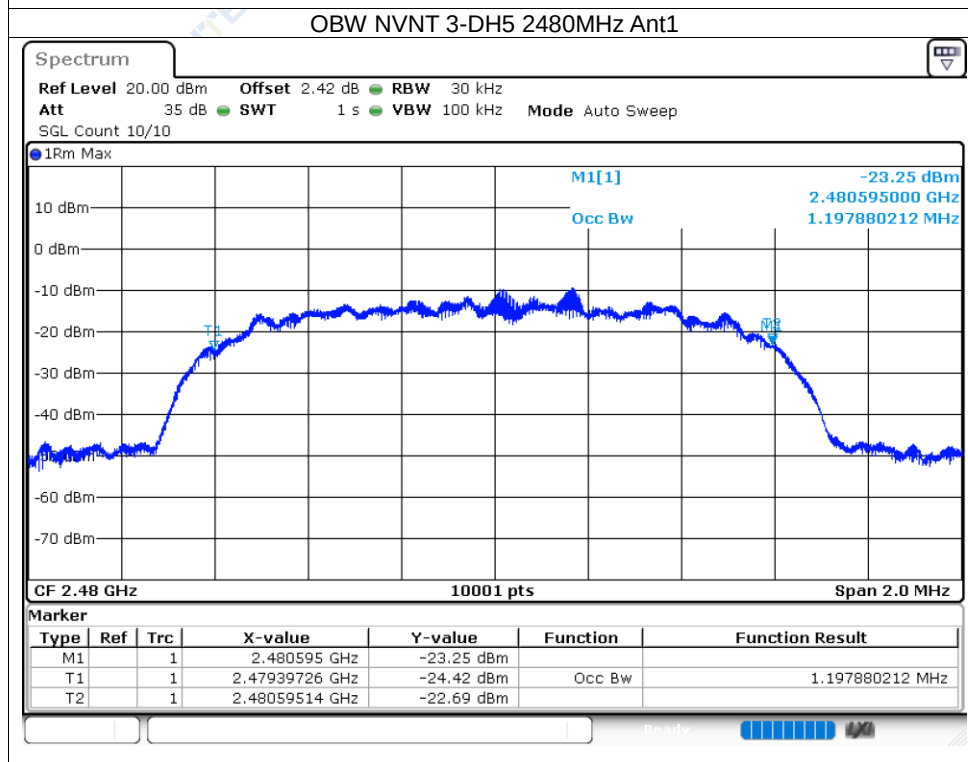
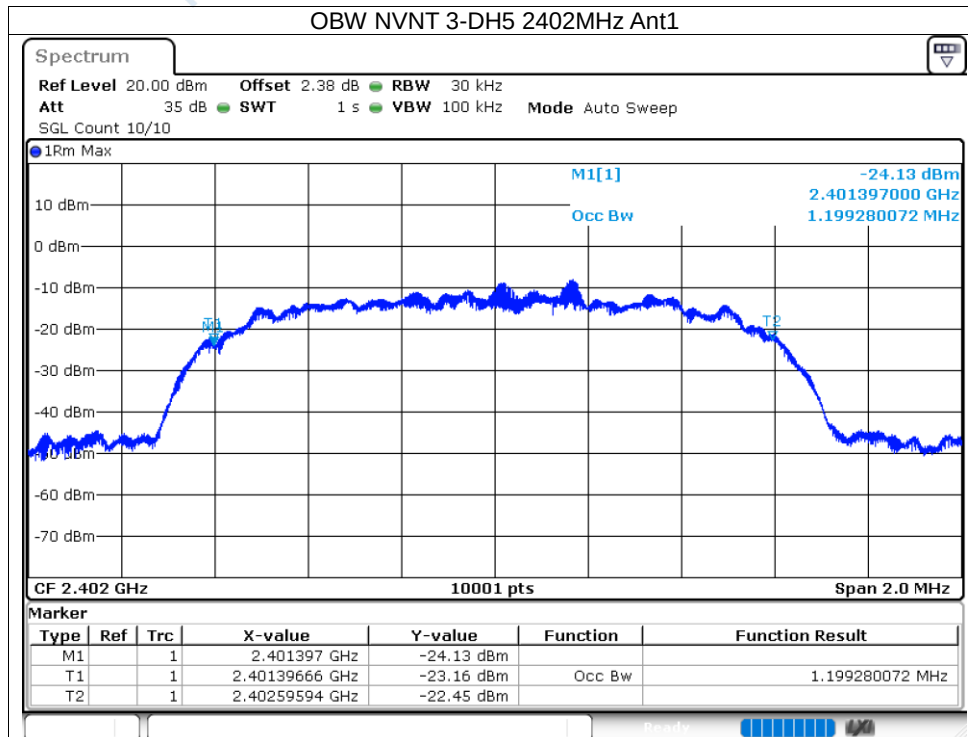
Ref Level 20.00 dBm Offset 2.42 dB RBW 30 kHz
Att 35 dB SWT 1 s VBW 100 kHz Mode Auto Sweep
SGL Count 15/15

1Rm Max



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.480587 GHz	-25.93 dBm		
T1	1		2.479405259 GHz	-23.18 dBm	Occ Bw	1.182081792 MHz
T2	1		2.480587341 GHz	-25.00 dBm		

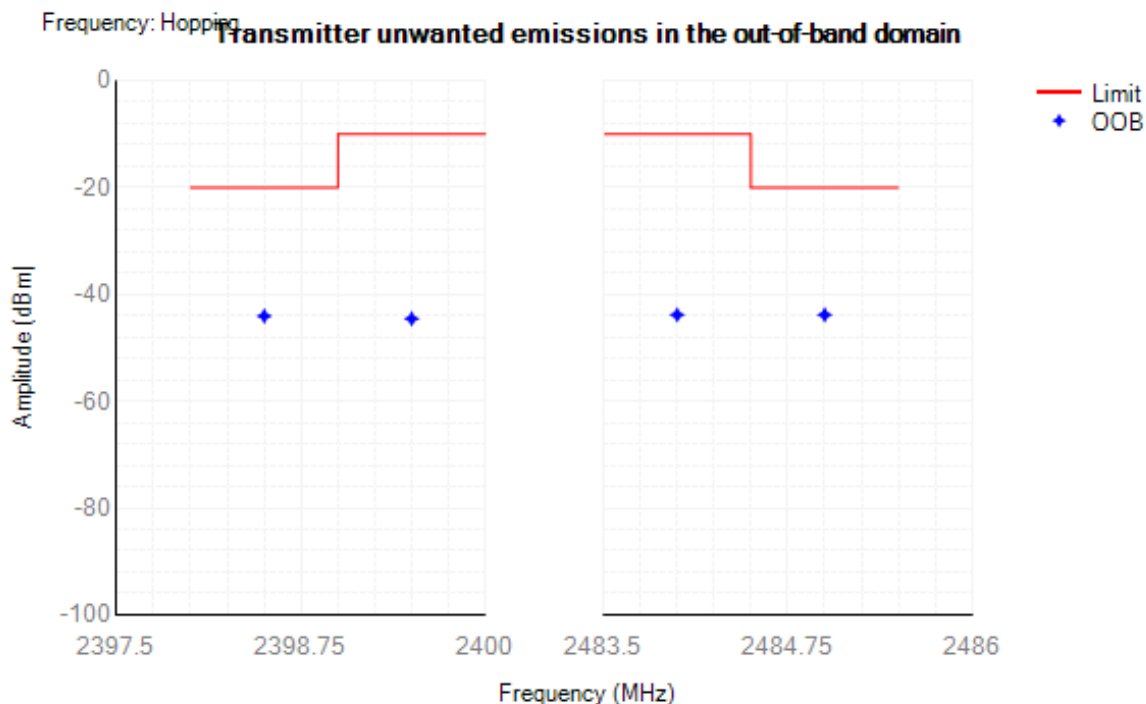


11.1.7 Transmitter unwanted emissions in the out-of-band domain

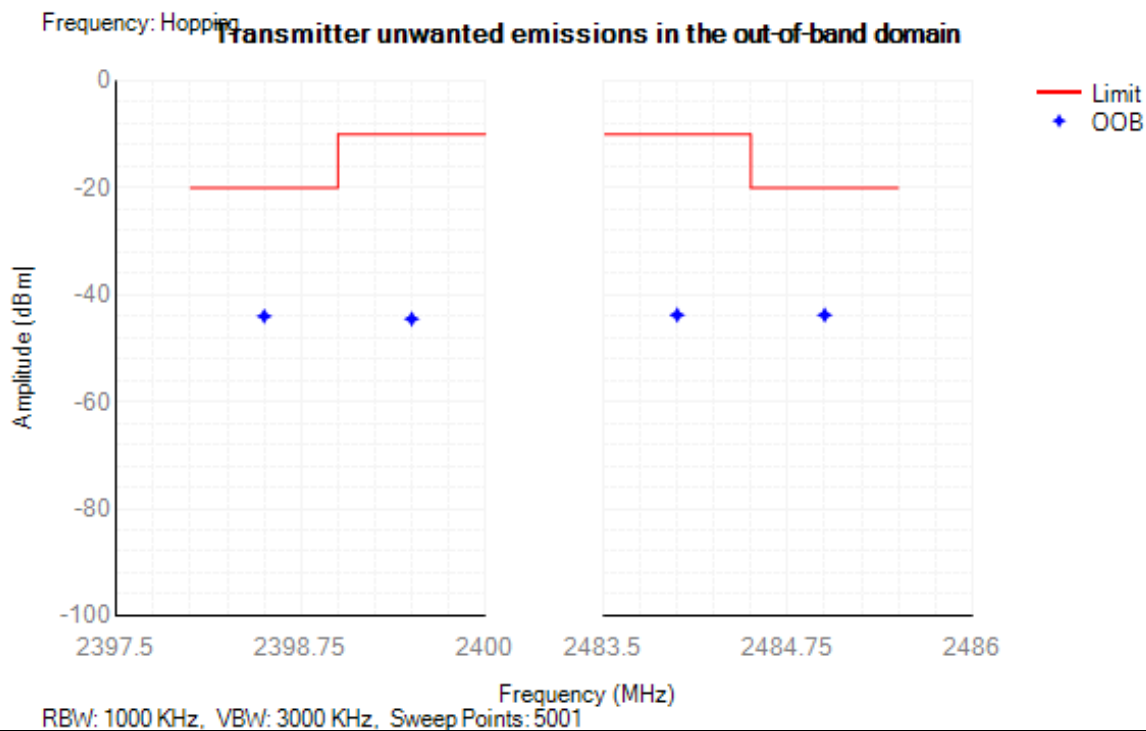
Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	Hopping	Ant1	2399.5	-44.56	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-44.06	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-43.84	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-43.84	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2399.5	-44.51	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-44.01	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-43.78	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-43.79	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-44.5	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-44.08	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-43.82	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-43.85	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-44.48	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-44.05	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-43.78	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-43.78	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-44.51	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-44.08	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-43.83	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-43.85	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-44.45	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-44.06	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-43.79	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-43.79	-20	Pass

Test Graphs

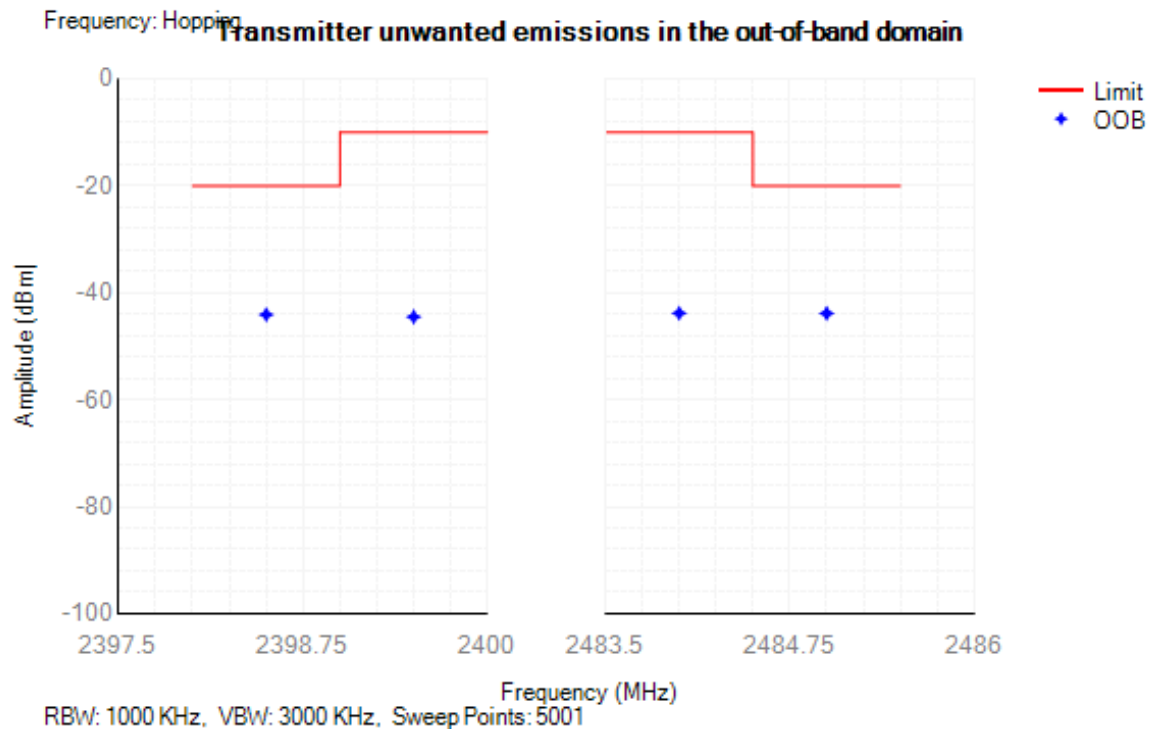
Tx. Emissions OOB NVNT 1-DH5 2402MHz Ant1



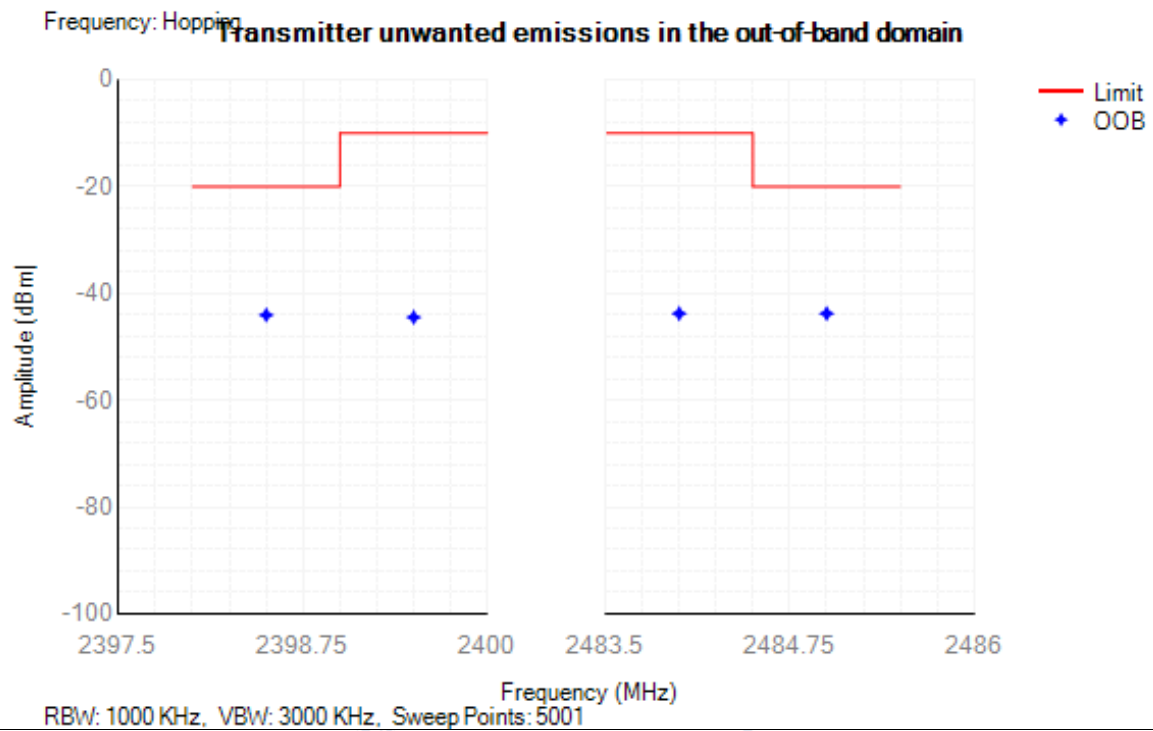
Tx. Emissions OOB NVNT 1-DH5 2480MHz Ant1



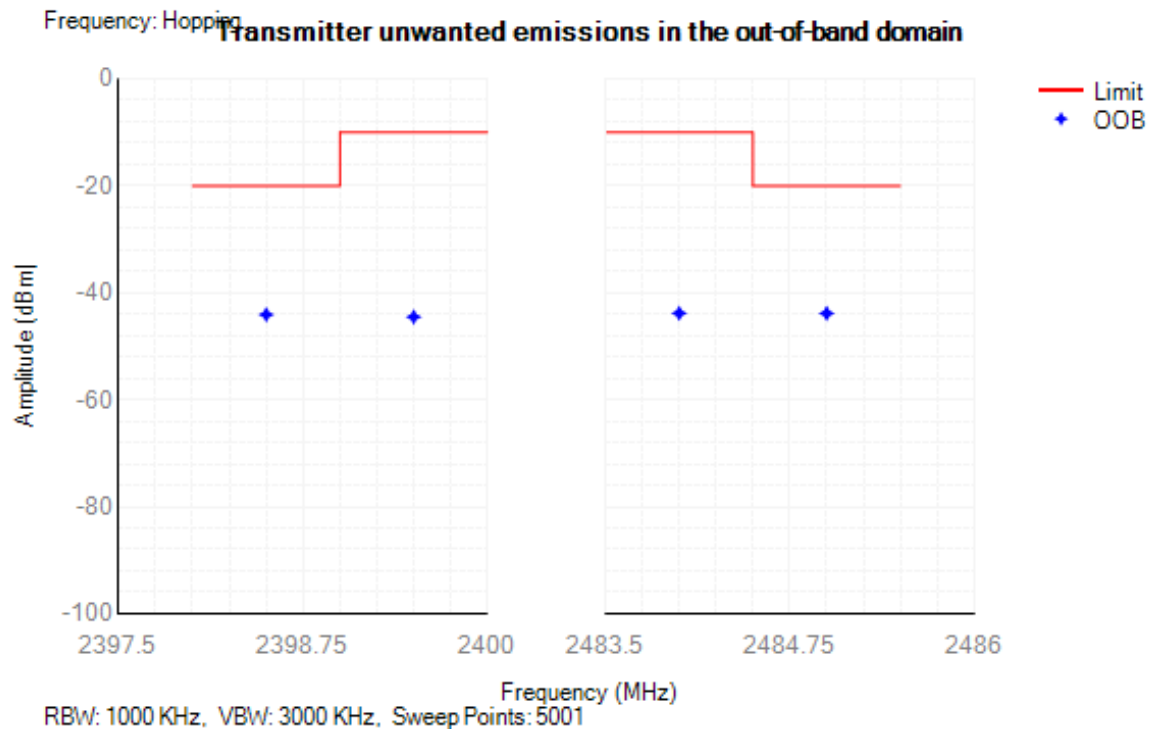
Tx. Emissions OOB NVNT 2-DH5 2402MHz Ant1



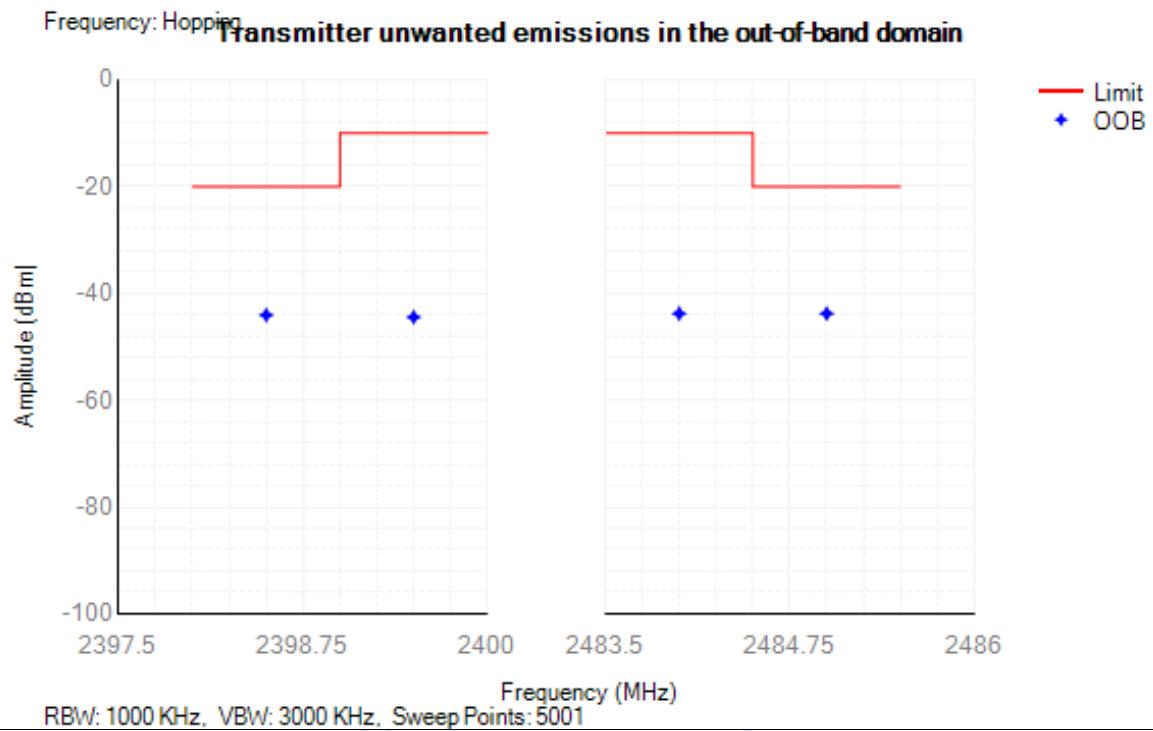
Tx. Emissions OOB NVNT 2-DH5 2480MHz Ant1



Tx. Emissions OOB NVNT 3-DH5 2402MHz Ant1



Tx. Emissions OOB NVNT 3-DH5 2480MHz Ant1



11.1.8 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	46.85	-81.55	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	47 -74	64.05	-77.36	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	74 -87.5	74.05	-80.81	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	87.5 -118	100.90	-79.90	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	118 -174	157.50	-79.99	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	174 -230	180.10	-79.59	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	230 -470	349.55	-78.42	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	470 -694	490.45	-77.98	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	694 -1000	948.25	-52.87	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	1000 -2398	2396.50	-42.72	NA	-30	Pass
NVNT	1-DH5	2402	Ant1	2485.5 -12750	6938.50	-50.97	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	30 -47	41.20	-81.01	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	47 -74	64.00	-78.12	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	74 -87.5	75.00	-80.83	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	87.5 -118	93.60	-80.11	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	118 -174	161.60	-79.05	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	174 -230	209.30	-79.38	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	230 -470	240.40	-78.55	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	470 -694	603.25	-78.74	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	694 -1000	948.20	-53.75	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	1000 -2398	1869.00	-55.51	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	2485.5 -12750	6988.00	-49.96	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	30 -47	42.90	-81.07	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	47 -74	64.00	-77.39	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	74 -87.5	82.10	-79.97	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	87.5 -118	107.20	-80.21	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	118 -174	129.45	-79.96	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	174 -230	212.75	-79.36	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	230 -470	361.65	-78.88	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	470 -694	639.75	-78.70	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	694 -1000	948.25	-53.66	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	1000 -2398	1851.00	-55.11	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	2485.5 -12750	6199.50	-49.04	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	30 -47	41.15	-80.89	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	47 -74	64.00	-77.86	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	74 -87.5	86.55	-80.76	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	87.5 -118	103.45	-79.95	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	118 -174	161.80	-79.48	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	174 -230	196.55	-79.40	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	230 -470	287.15	-78.46	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	470 -694	472.40	-78.74	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	694 -1000	948.20	-51.69	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	1000 -2398	2394.00	-49.29	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	2485.5 -12750	6965.50	-50.93	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	30 -47	39.25	-81.33	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	47 -74	64.75	-77.55	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	74 -87.5	74.75	-79.56	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	87.5 -118	111.05	-79.97	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	118 -174	162.15	-78.64	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	174 -230	201.35	-79.61	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	230 -470	339.60	-79.18	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	470 -694	638.75	-77.94	NA	-54	Pass

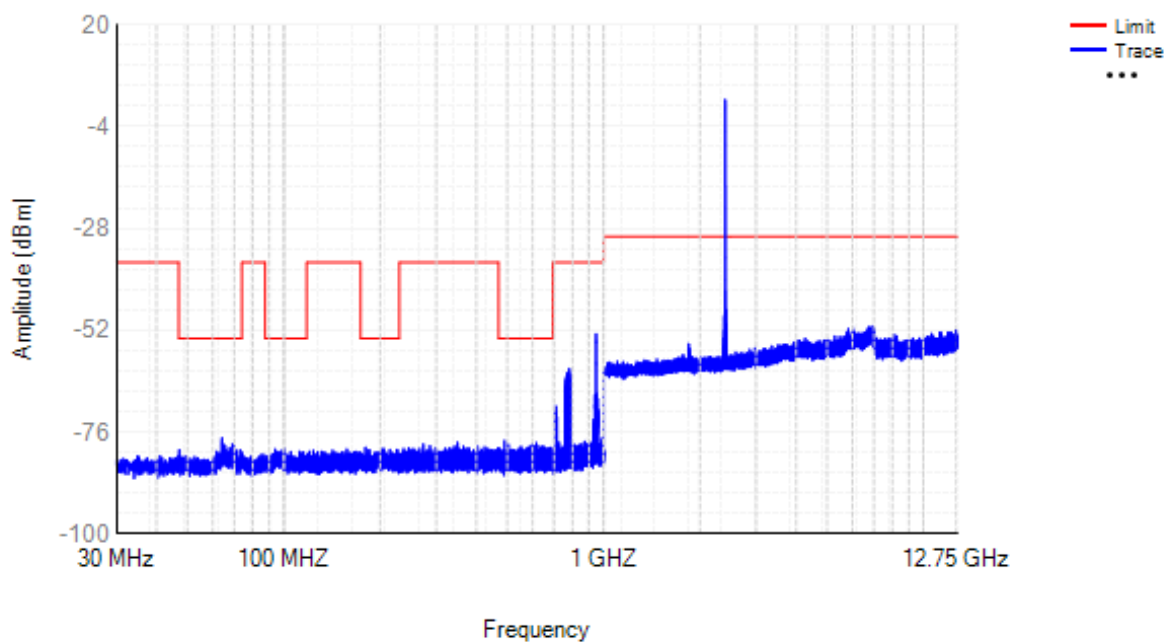
NVNT	2-DH5	2441	Ant1	694 -1000	948.25	-59.50	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	1000 -2398	1866.50	-56.19	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	2485.5 -12750	6102.50	-49.28	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	30 -47	45.15	-81.25	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	47 -74	65.45	-78.29	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	74 -87.5	74.65	-80.94	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	87.5 -118	93.50	-78.70	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	118 -174	125.50	-79.63	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	174 -230	202.05	-78.69	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	230 -470	252.65	-78.68	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	470 -694	533.55	-78.52	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	694 -1000	767.35	-59.43	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	1000 -2398	2112.50	-56.83	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	2485.5 -12750	3413.50	-45.58	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	30 -47	41.95	-79.81	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	47 -74	65.40	-78.47	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	74 -87.5	87.00	-81.14	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	87.5 -118	94.75	-79.07	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	118 -174	127.60	-78.18	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	174 -230	174.05	-79.17	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	230 -470	372.80	-78.60	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	470 -694	587.90	-78.63	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	694 -1000	786.50	-58.34	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	1000 -2398	2396.00	-46.46	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	2485.5 -12750	3408.00	-40.51	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	30 -47	43.35	-80.20	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	47 -74	64.00	-77.56	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	74 -87.5	87.35	-80.78	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	87.5 -118	101.85	-78.87	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	118 -174	135.45	-79.26	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	174 -230	229.95	-78.67	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	230 -470	281.90	-77.81	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	470 -694	538.05	-78.87	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	694 -1000	948.15	-52.15	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	1000 -2398	1862.50	-55.76	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	2485.5 -12750	3410.50	-44.41	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	30 -47	38.00	-80.76	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	47 -74	70.20	-77.70	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	74 -87.5	77.75	-80.32	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	87.5 -118	106.00	-79.78	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	118 -174	124.15	-79.77	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	174 -230	208.35	-78.91	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	230 -470	369.25	-78.89	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	470 -694	493.60	-78.37	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	694 -1000	948.20	-60.82	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	1000 -2398	1766.50	-51.73	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	2485.5 -12750	6200.00	-48.92	NA	-30	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1

Frequency: 2402 MHz

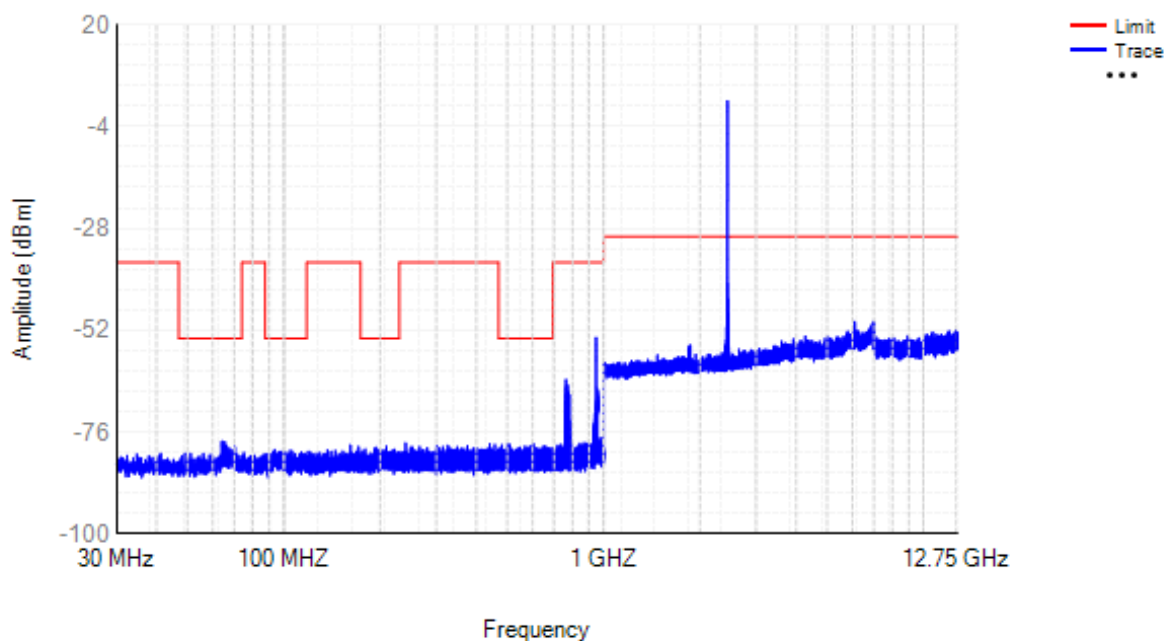
Transmitter unwanted emissions in the spurious domain



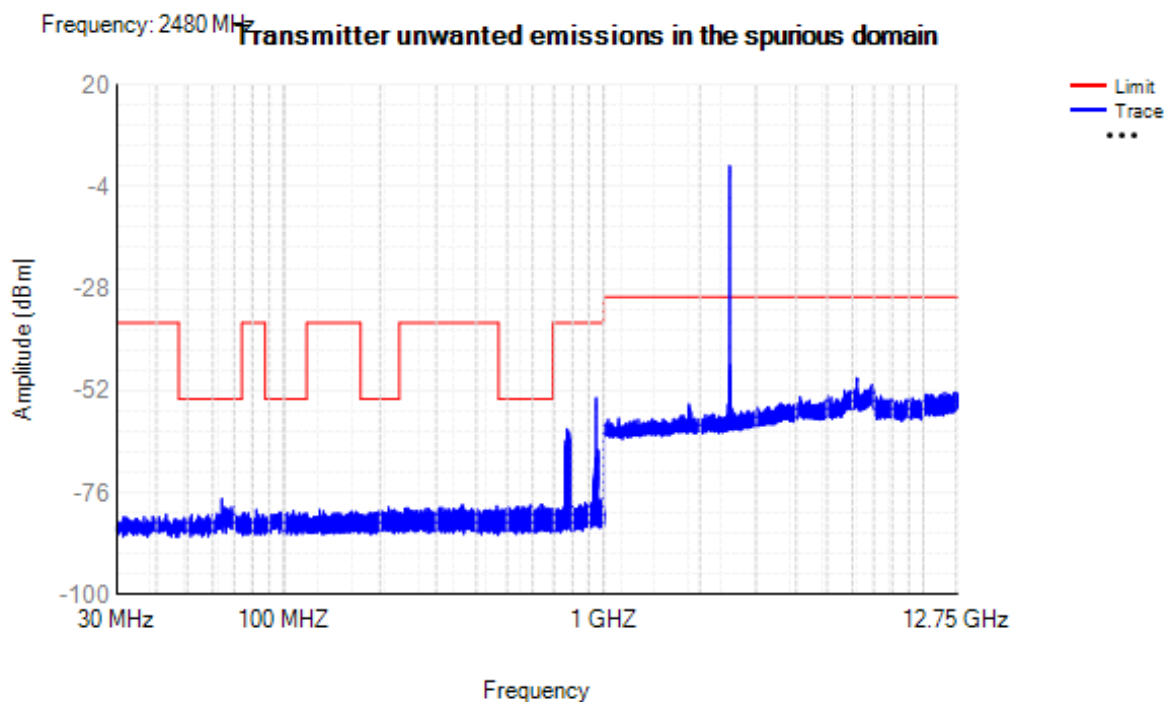
Tx. Spurious NVNT 1-DH5 2441MHz Ant1

Frequency: 2441 MHz

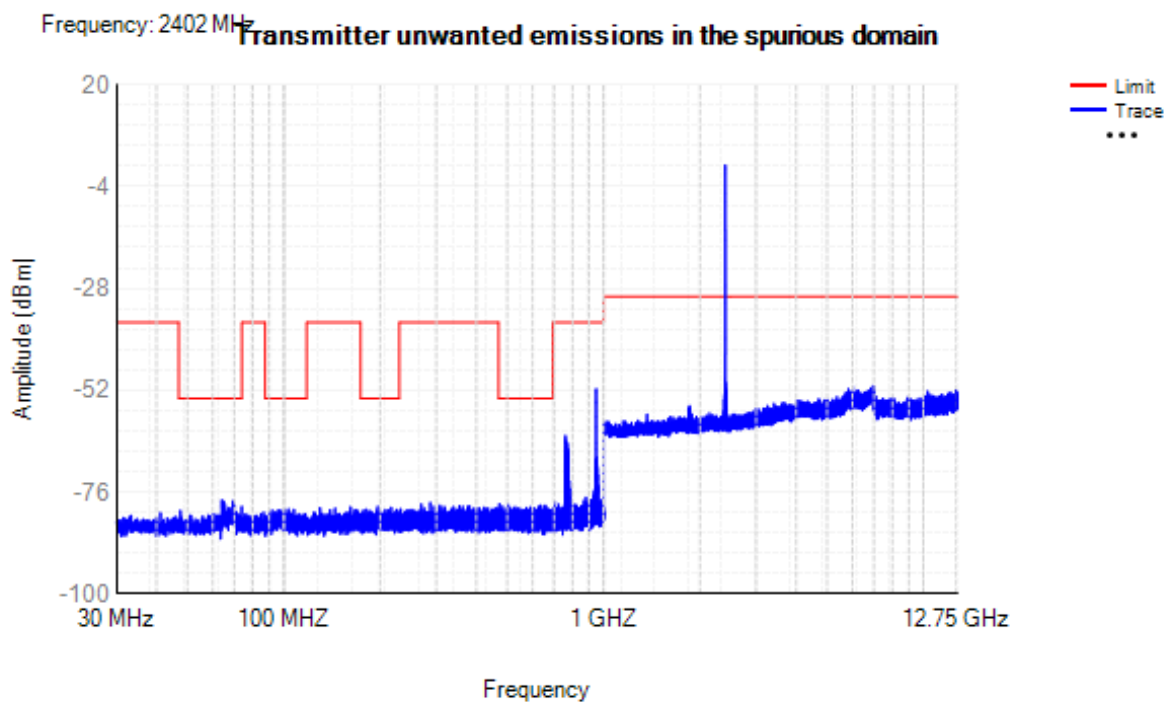
Transmitter unwanted emissions in the spurious domain



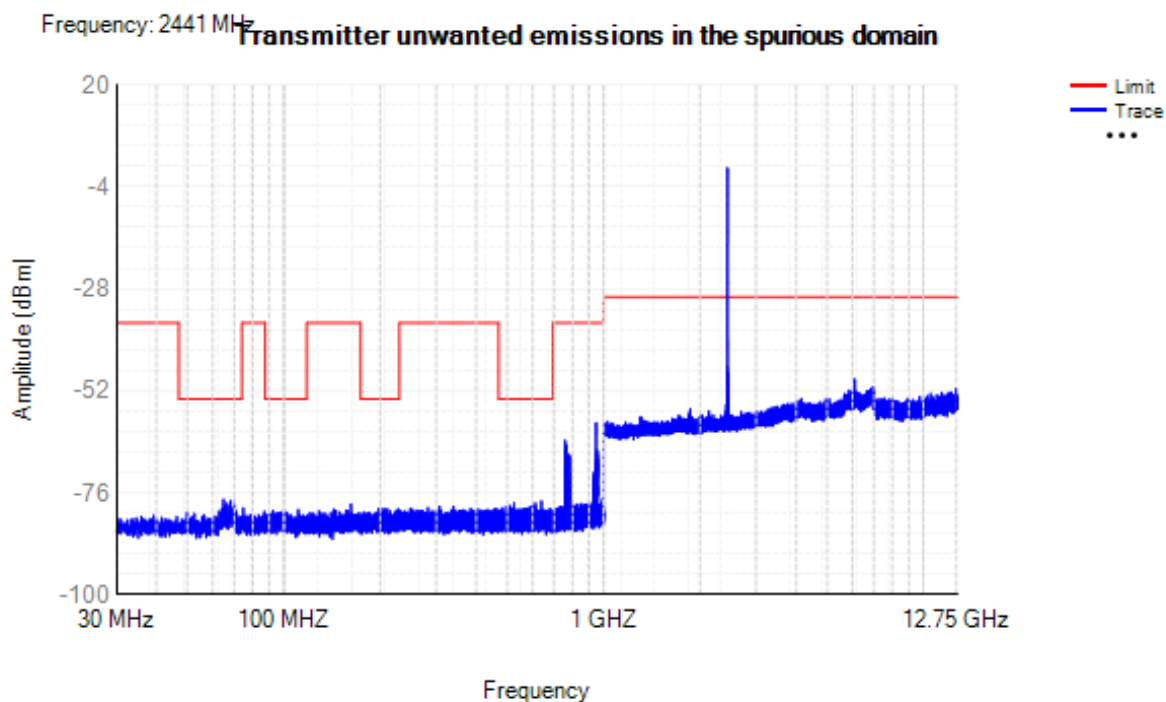
Tx. Spurious NVNT 1-DH5 2480MHz Ant1



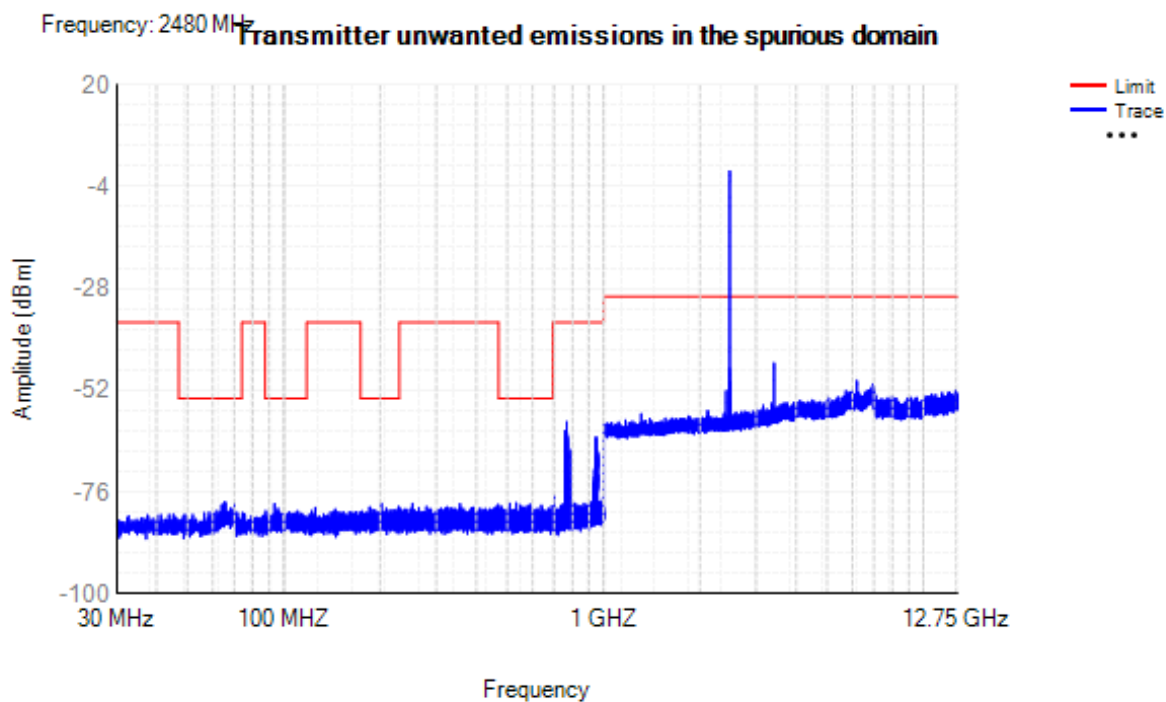
Tx. Spurious NVNT 2-DH5 2402MHz Ant1



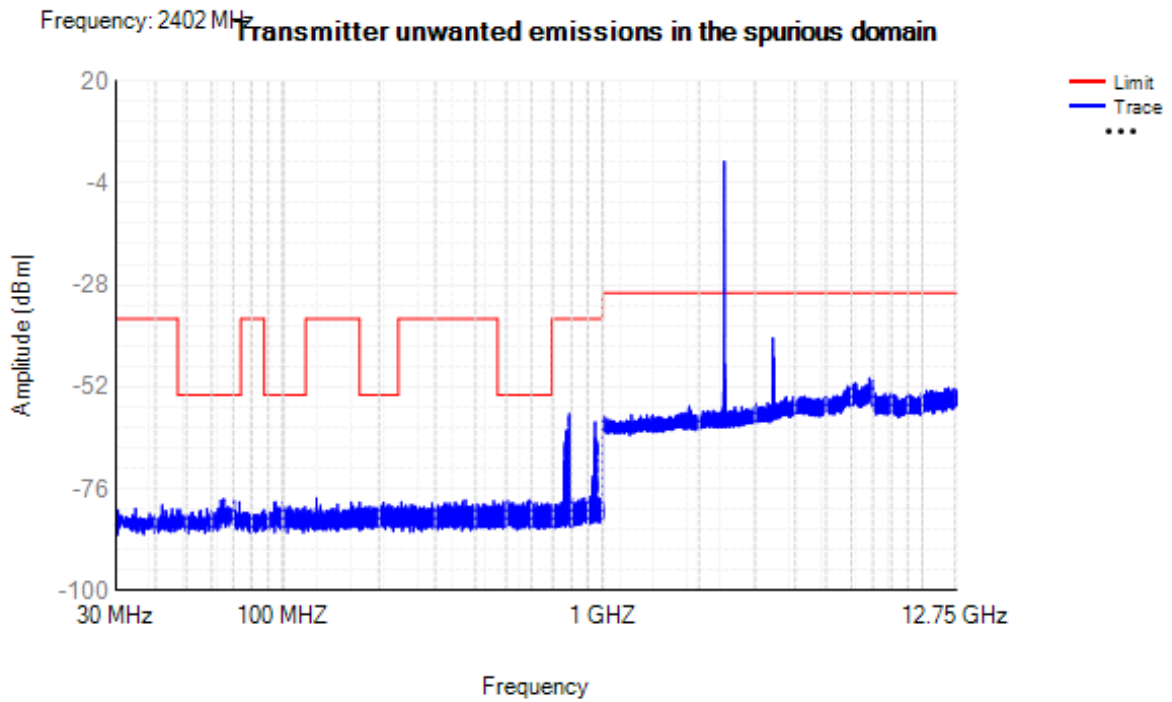
Tx. Spurious NVNT 2-DH5 2441MHz Ant1



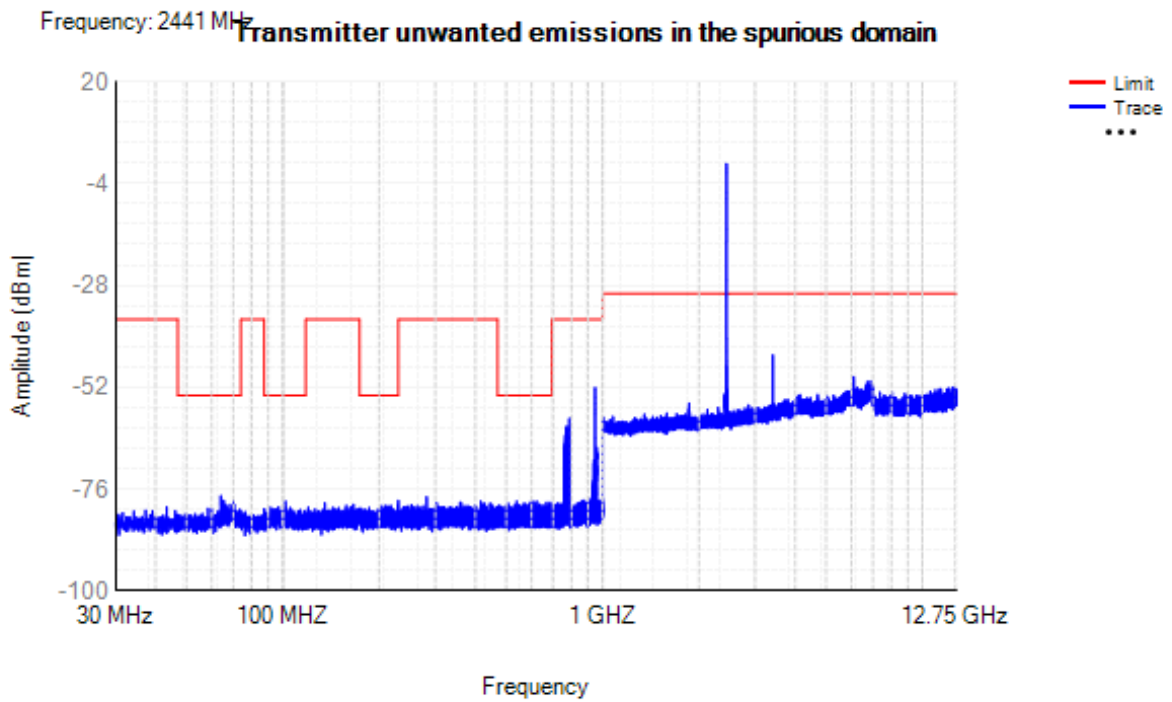
Tx. Spurious NVNT 2-DH5 2480MHz Ant1

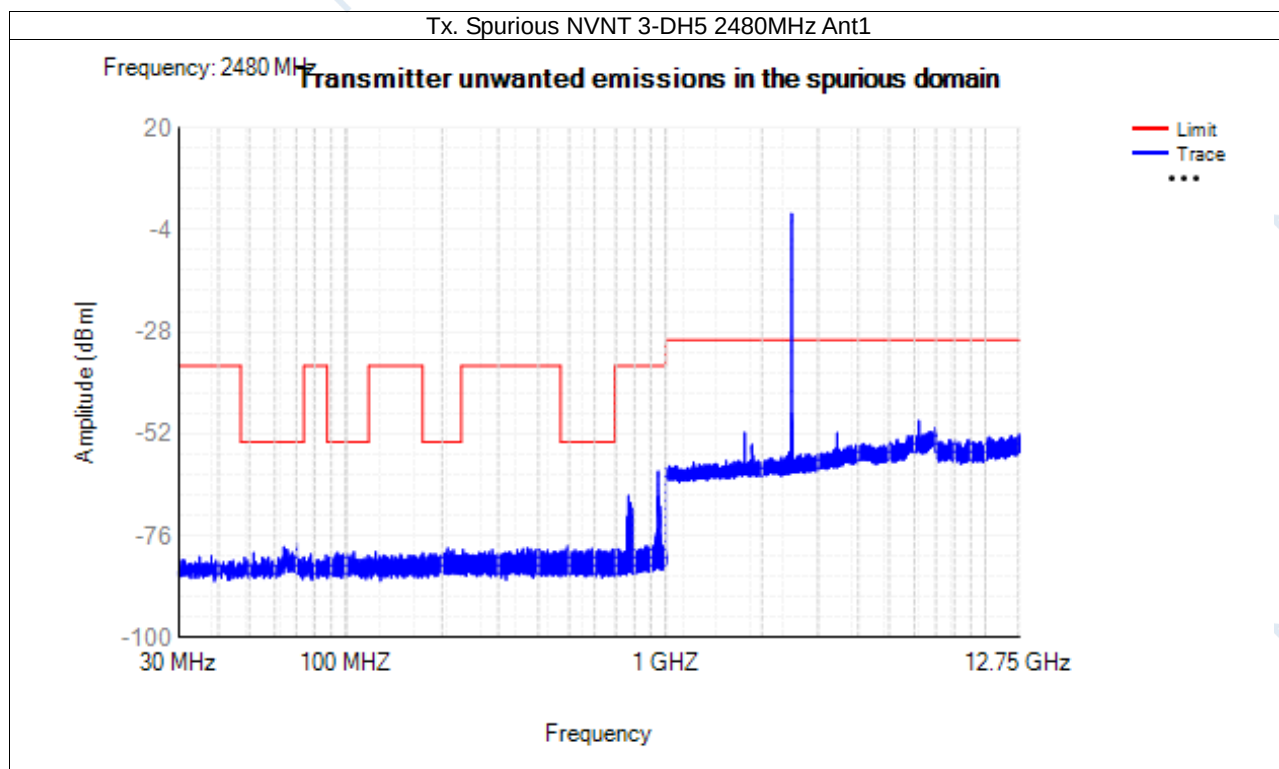


Tx. Spurious NVNT 3-DH5 2402MHz Ant1



Tx. Spurious NVNT 3-DH5 2441MHz Ant1



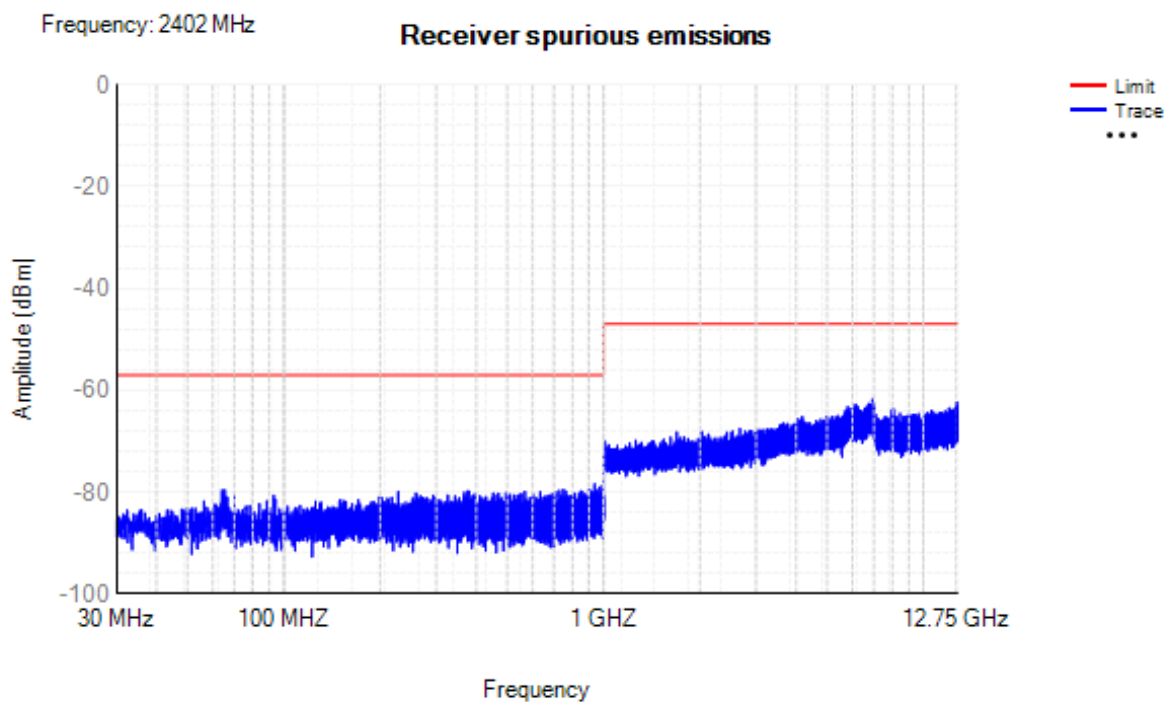


11.1.9 Receiver spurious emissions

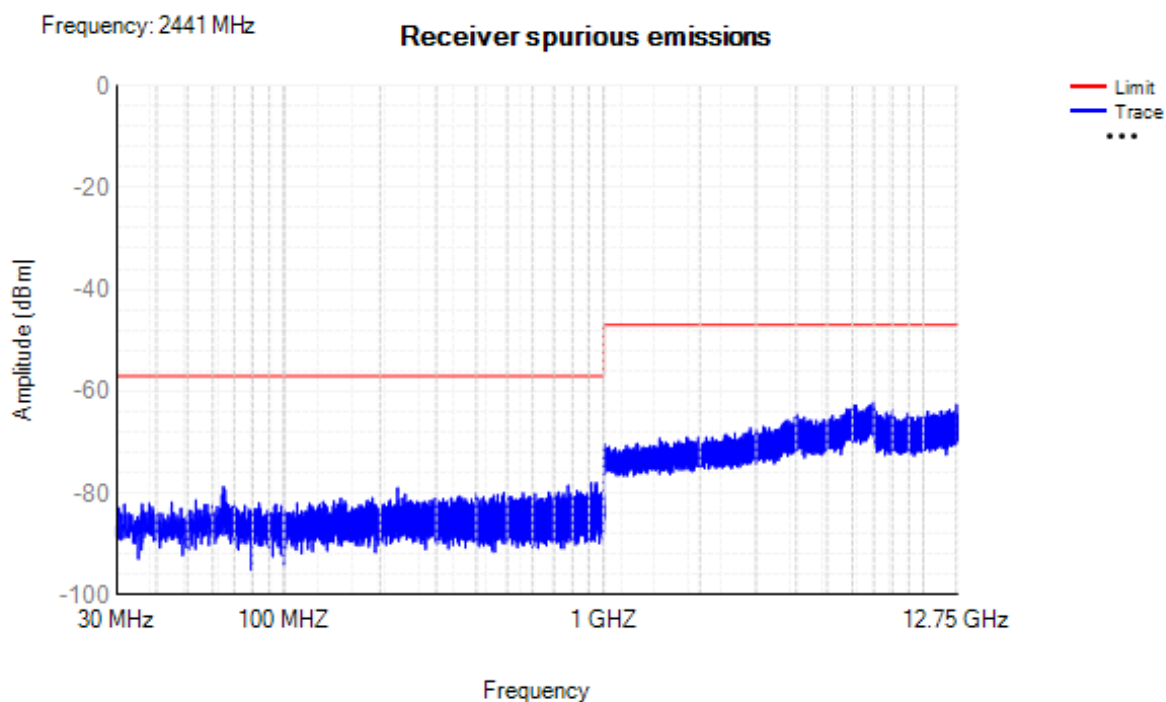
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	30 -1000	937.8	-78.37	NA	-57	Pass
NVNT	1-DH5	2402	Ant1	1000 -12750	6932.5	-61.76	NA	-47	Pass
NVNT	1-DH5	2441	Ant1	30 -1000	914.75	-77.97	NA	-57	Pass
NVNT	1-DH5	2441	Ant1	1000 -12750	6991	-62.23	NA	-47	Pass
NVNT	1-DH5	2480	Ant1	30 -1000	776.25	-77.36	NA	-57	Pass
NVNT	1-DH5	2480	Ant1	1000 -12750	6890.5	-60.78	NA	-47	Pass
NVNT	2-DH5	2402	Ant1	30 -1000	980.15	-77.76	NA	-57	Pass
NVNT	2-DH5	2402	Ant1	1000 -12750	6843.5	-61.70	NA	-47	Pass
NVNT	2-DH5	2441	Ant1	30 -1000	771.1	-77.87	NA	-57	Pass
NVNT	2-DH5	2441	Ant1	1000 -12750	6893.5	-62.34	NA	-47	Pass
NVNT	2-DH5	2480	Ant1	30 -1000	914.35	-78.68	NA	-57	Pass
NVNT	2-DH5	2480	Ant1	1000 -12750	6992.5	-62.08	NA	-47	Pass
NVNT	3-DH5	2402	Ant1	30 -1000	992.7	-77.60	NA	-57	Pass
NVNT	3-DH5	2402	Ant1	1000 -12750	6999.5	-62.47	NA	-47	Pass
NVNT	3-DH5	2441	Ant1	30 -1000	902.35	-78.25	NA	-57	Pass
NVNT	3-DH5	2441	Ant1	1000 -12750	6766	-61.62	NA	-47	Pass
NVNT	3-DH5	2480	Ant1	30 -1000	949.2	-77.81	NA	-57	Pass
NVNT	3-DH5	2480	Ant1	1000 -12750	6992	-61.39	NA	-47	Pass

Test Graphs

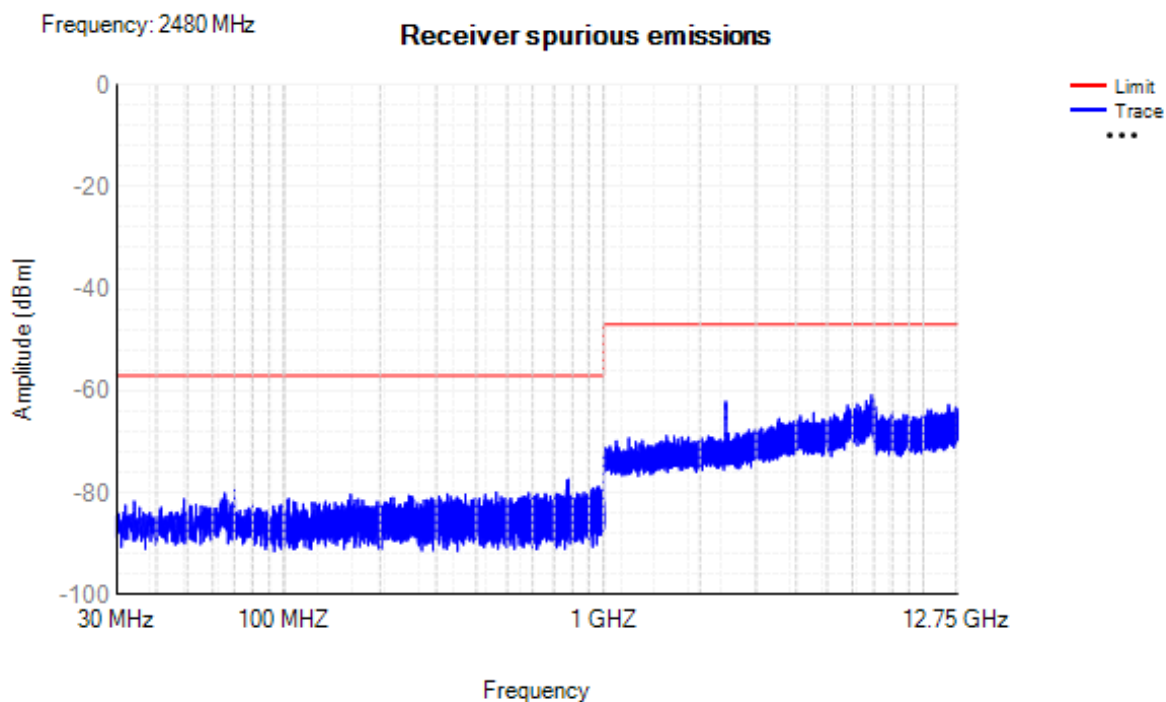
Rx. Spurious NVNT 1-DH5 2402MHz Ant1



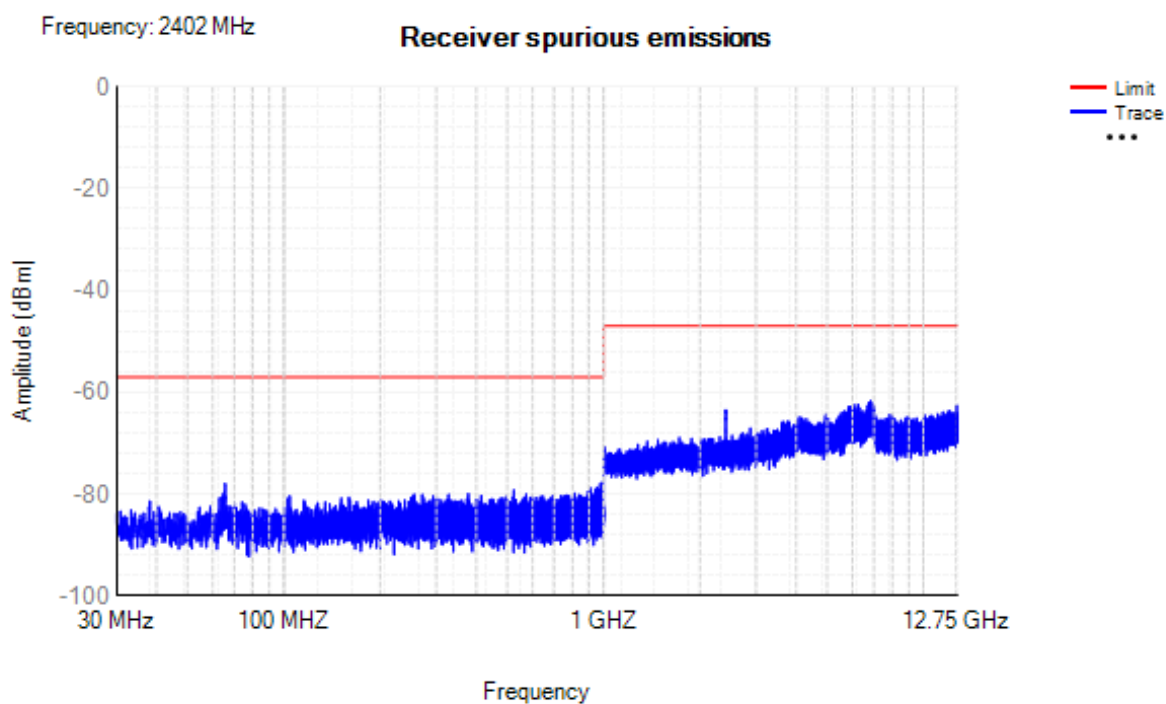
Rx. Spurious NVNT 1-DH5 2441MHz Ant1



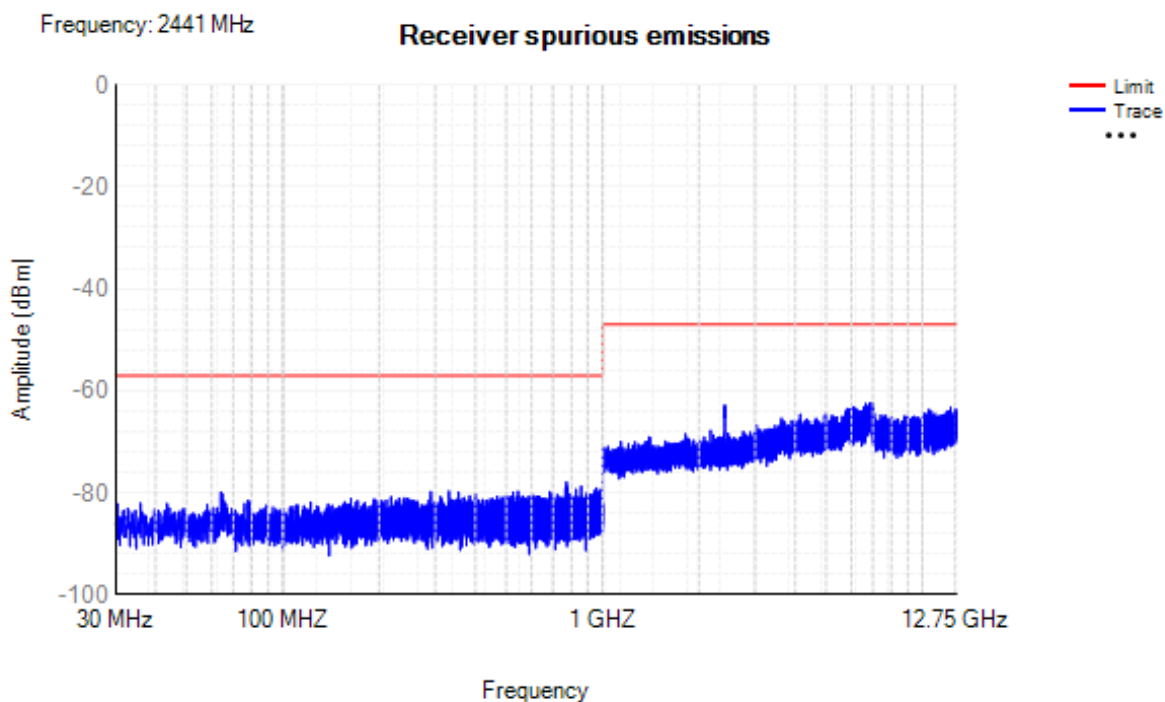
Rx. Spurious NVNT 1-DH5 2480MHz Ant1



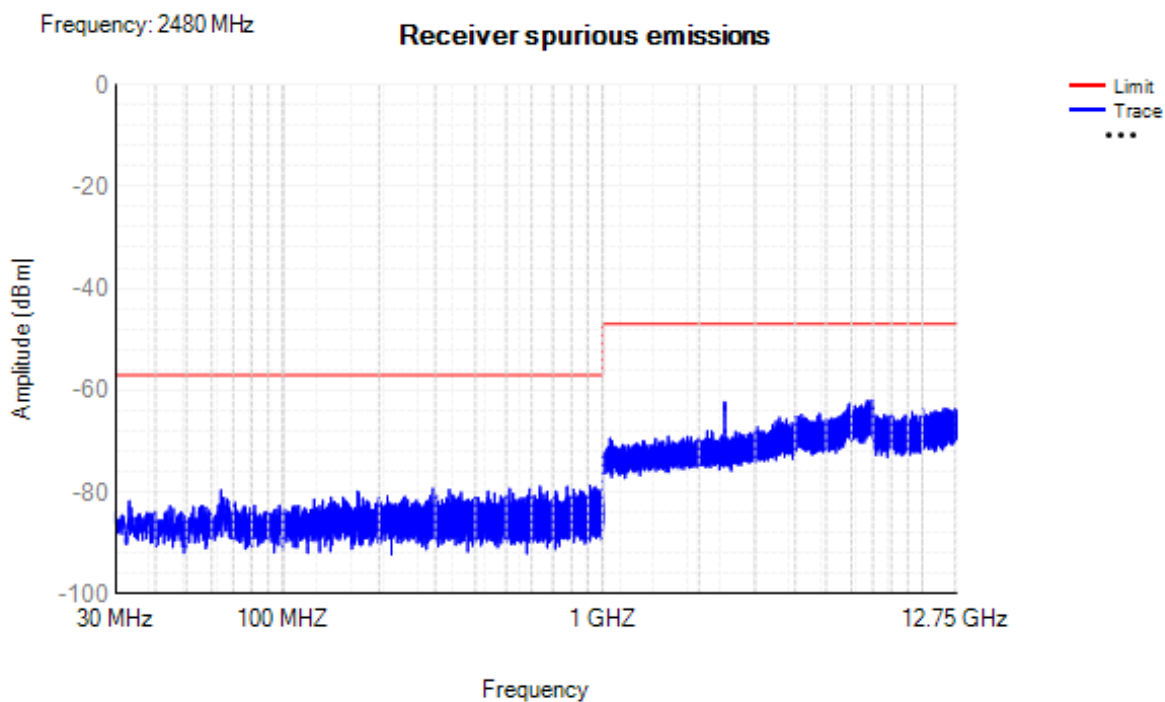
Rx. Spurious NVNT 2-DH5 2402MHz Ant1



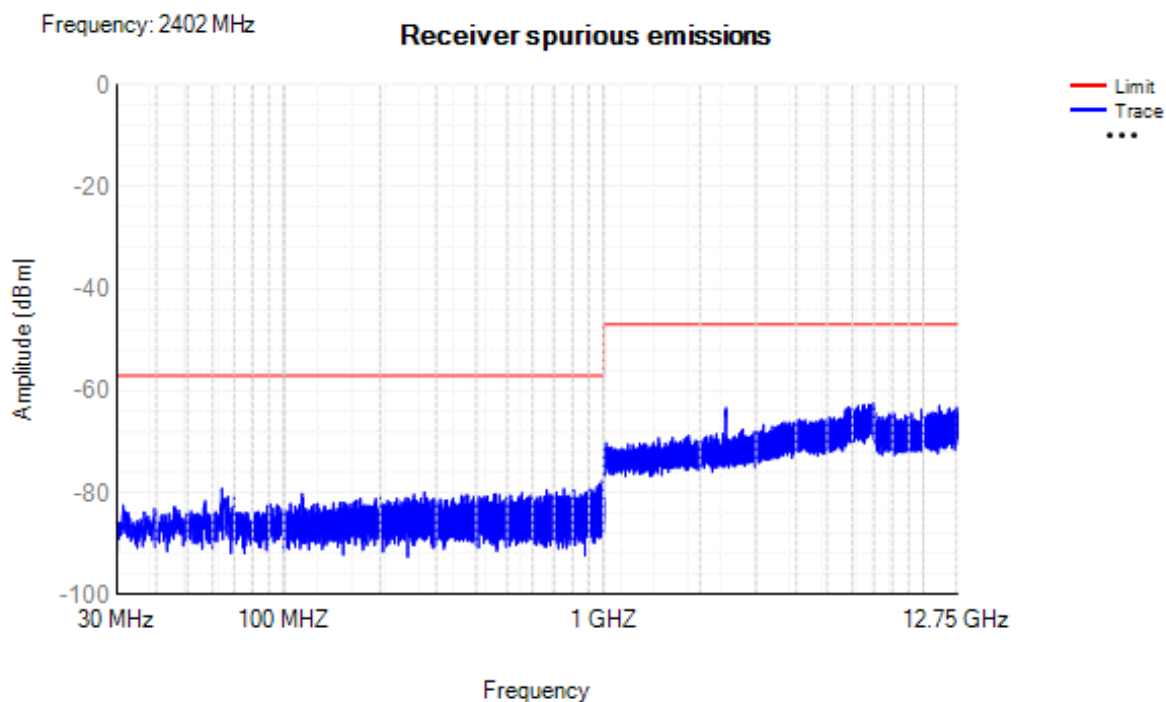
Rx. Spurious NVNT 2-DH5 2441MHz Ant1



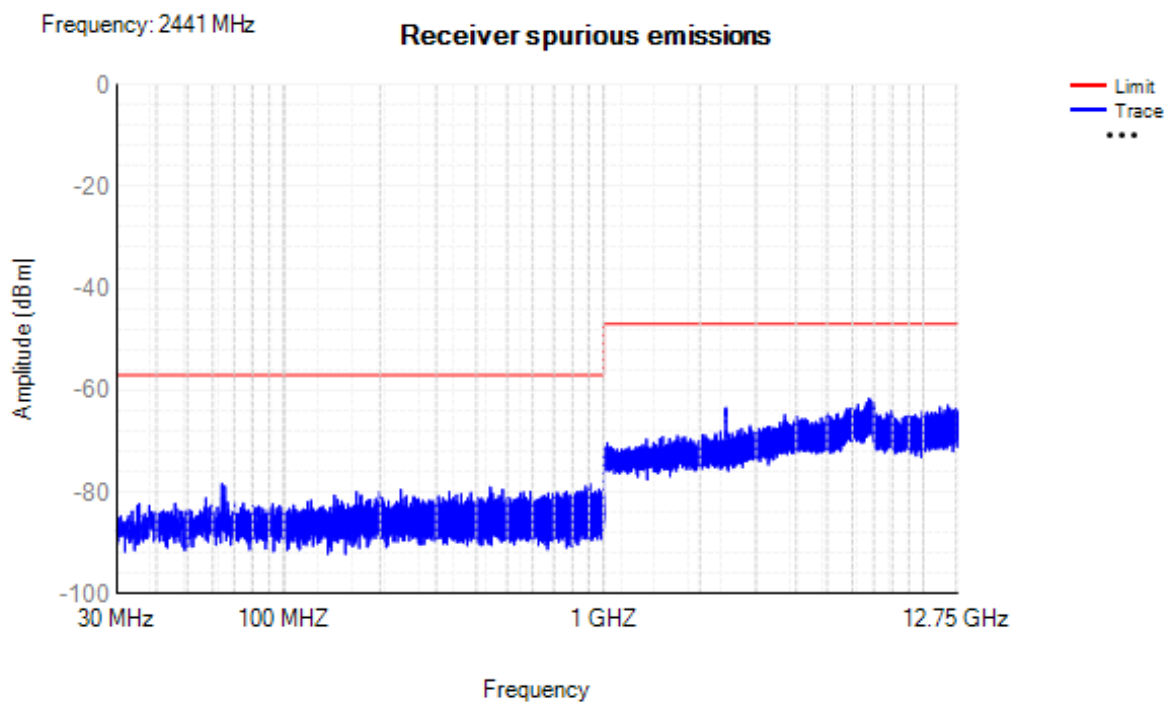
Rx. Spurious NVNT 2-DH5 2480MHz Ant1

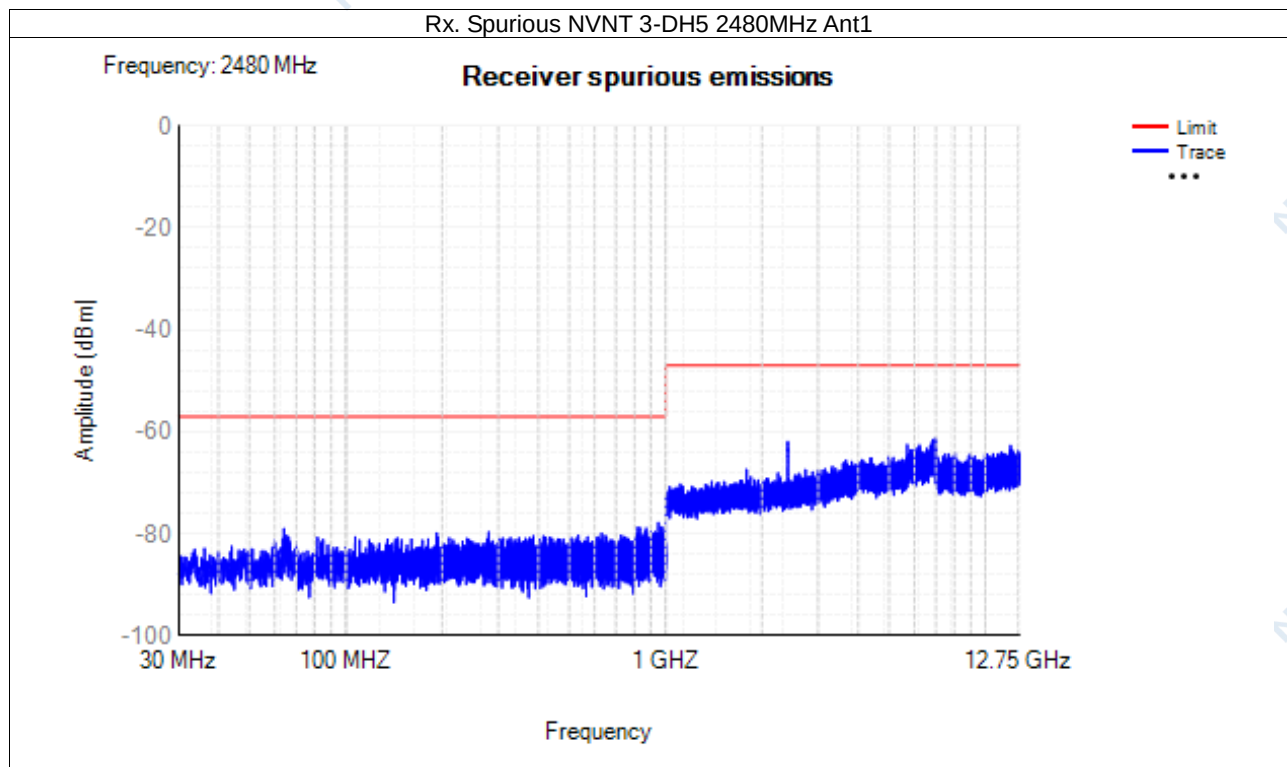


Rx. Spurious NVNT 3-DH5 2402MHz Ant1



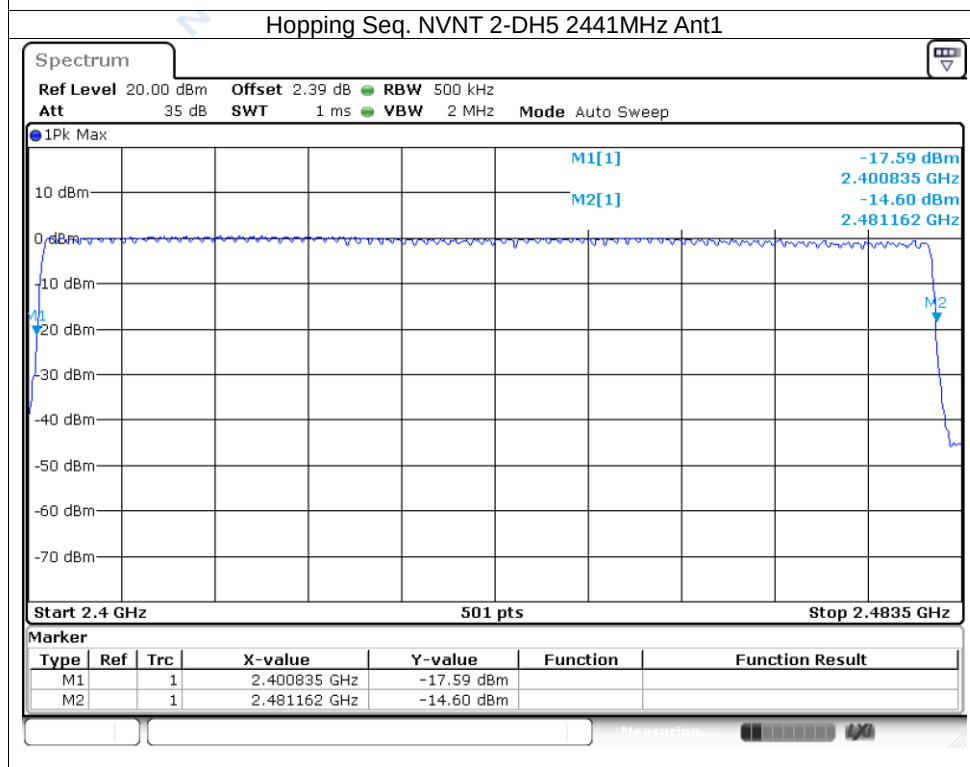
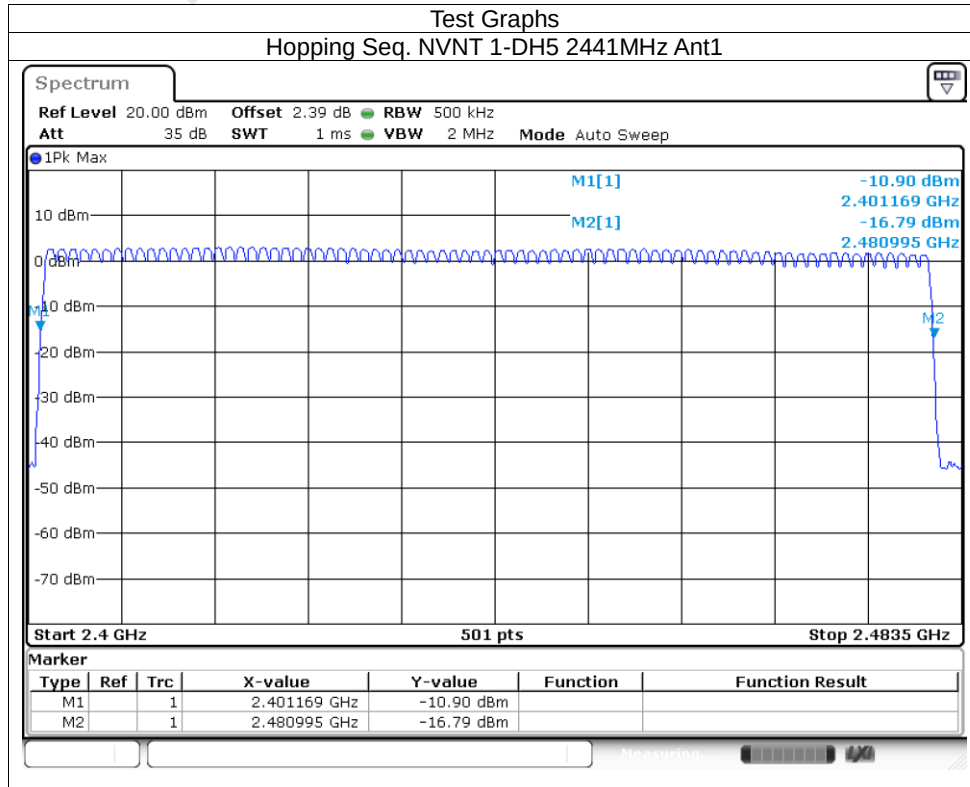
Rx. Spurious NVNT 3-DH5 2441MHz Ant1

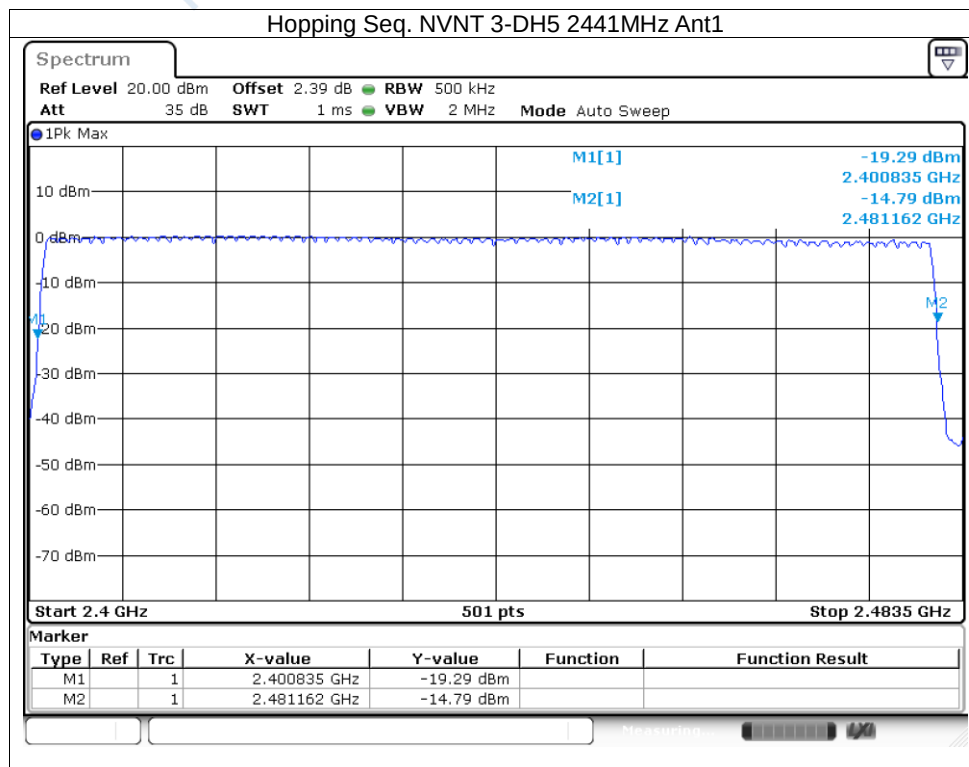




11.1.10 Hopping Sequence

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	96.2	70	Pass
NVNT	3-DH5	Ant1	79	15	96.2	70	Pass

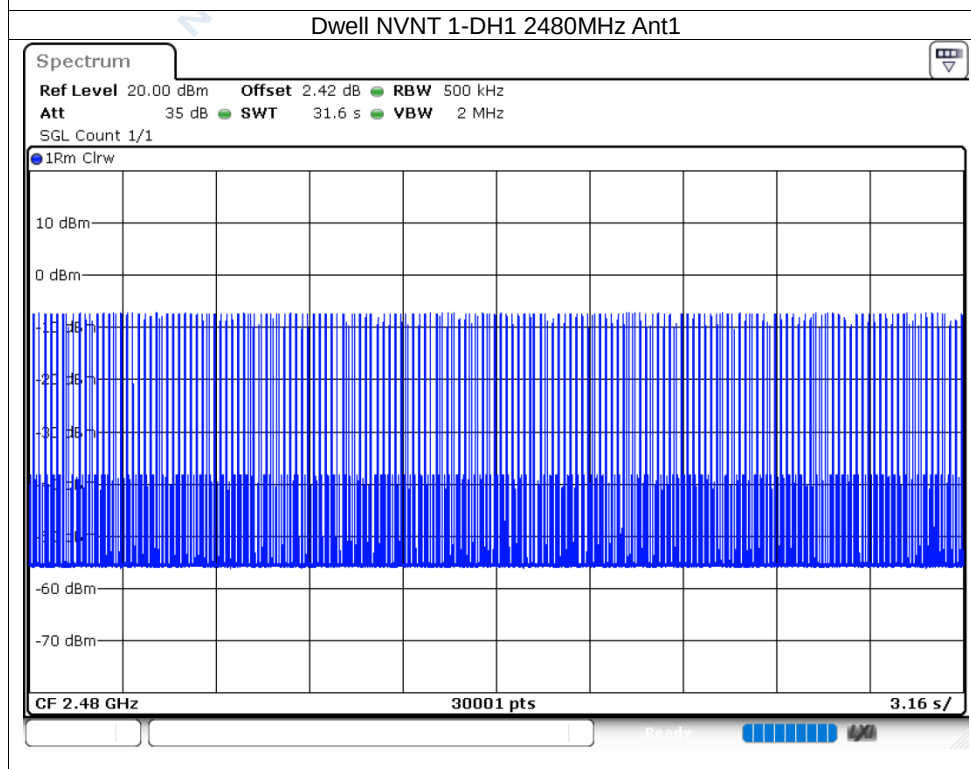
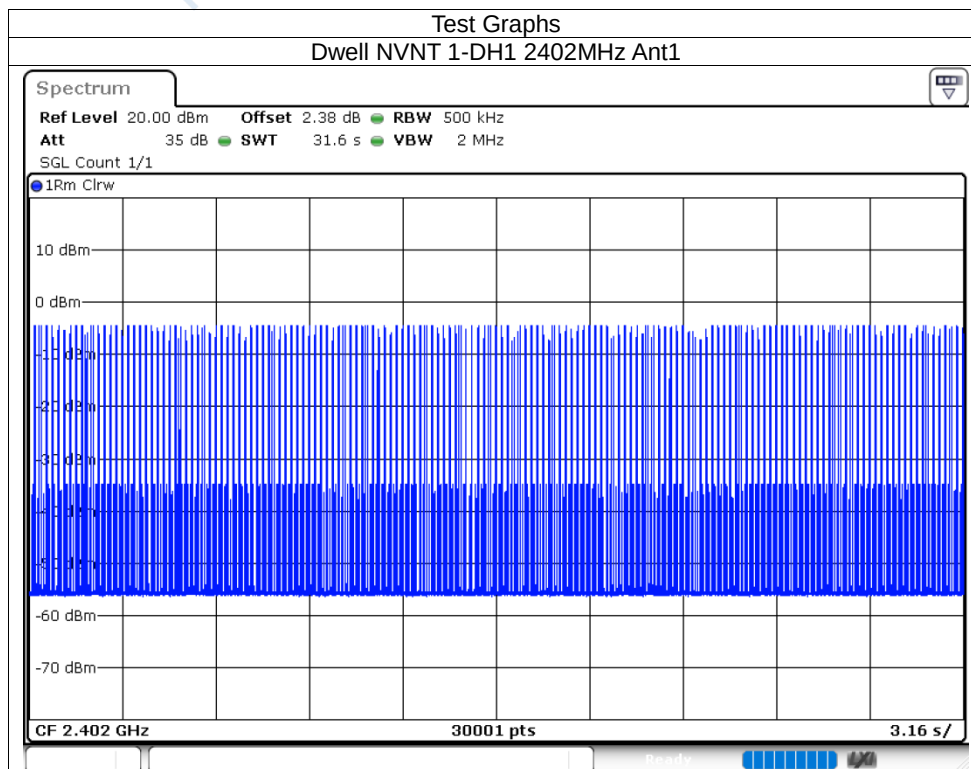


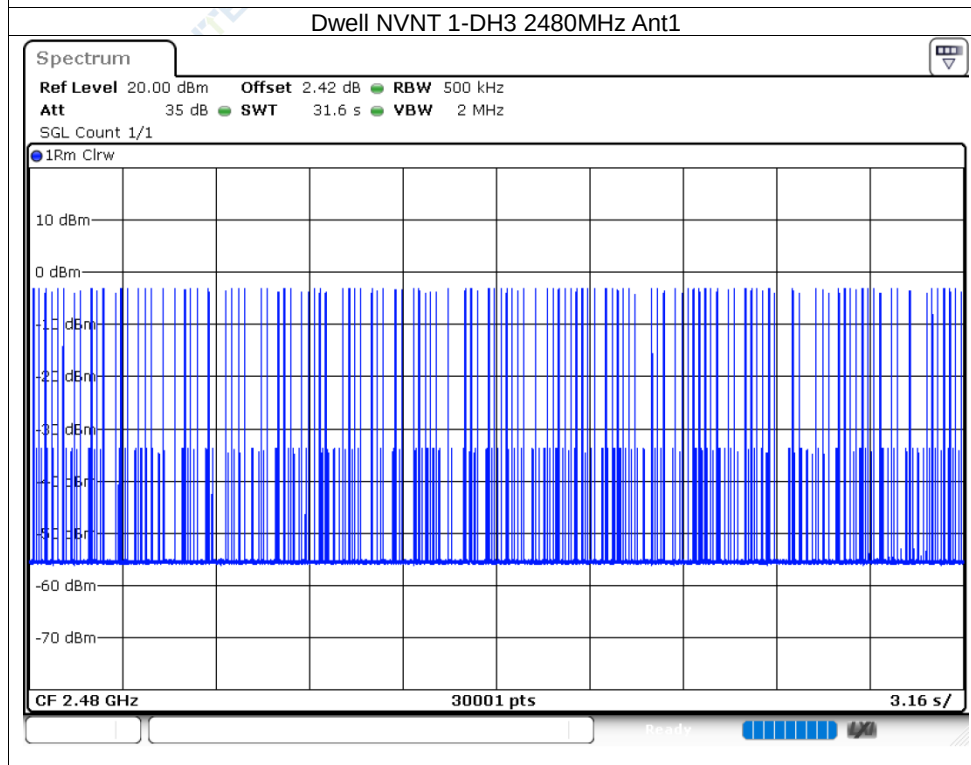
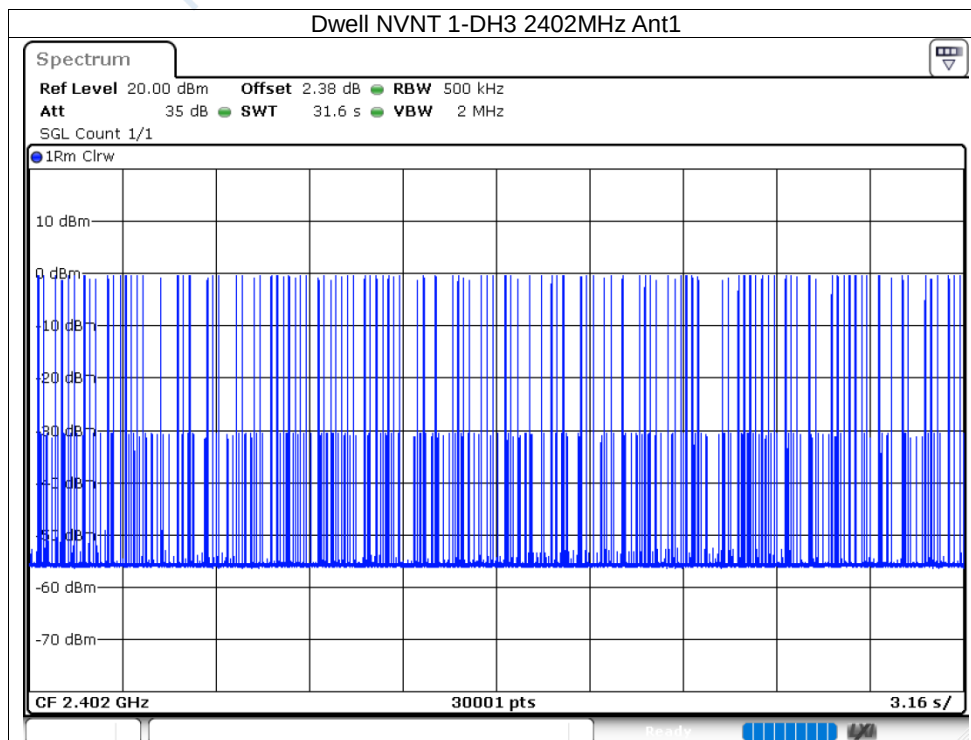


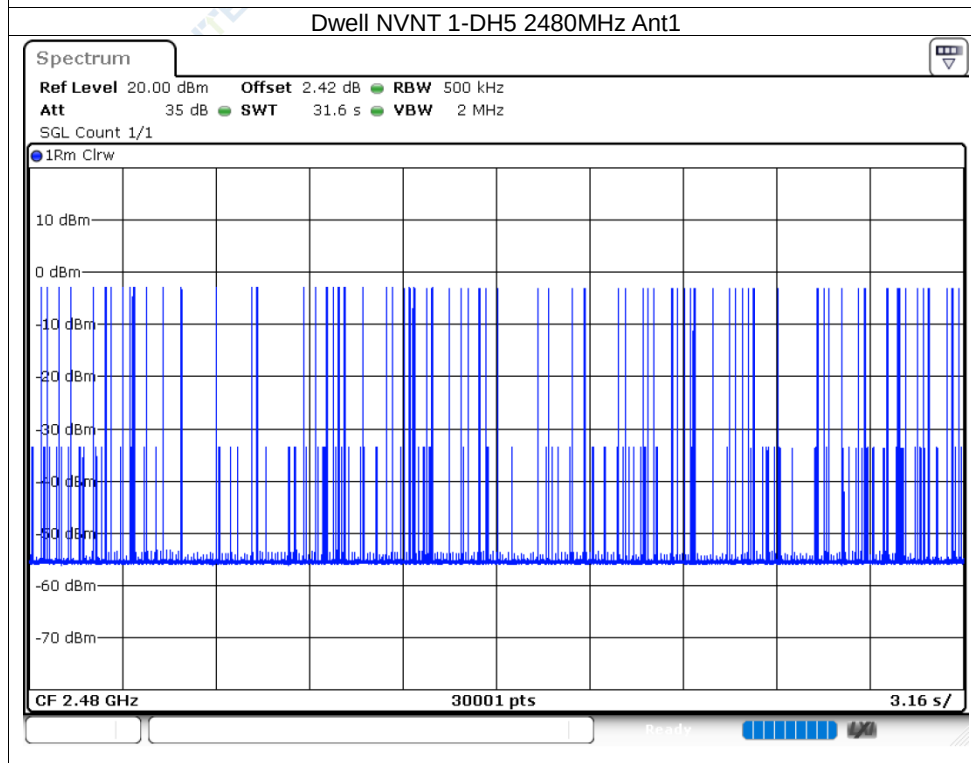
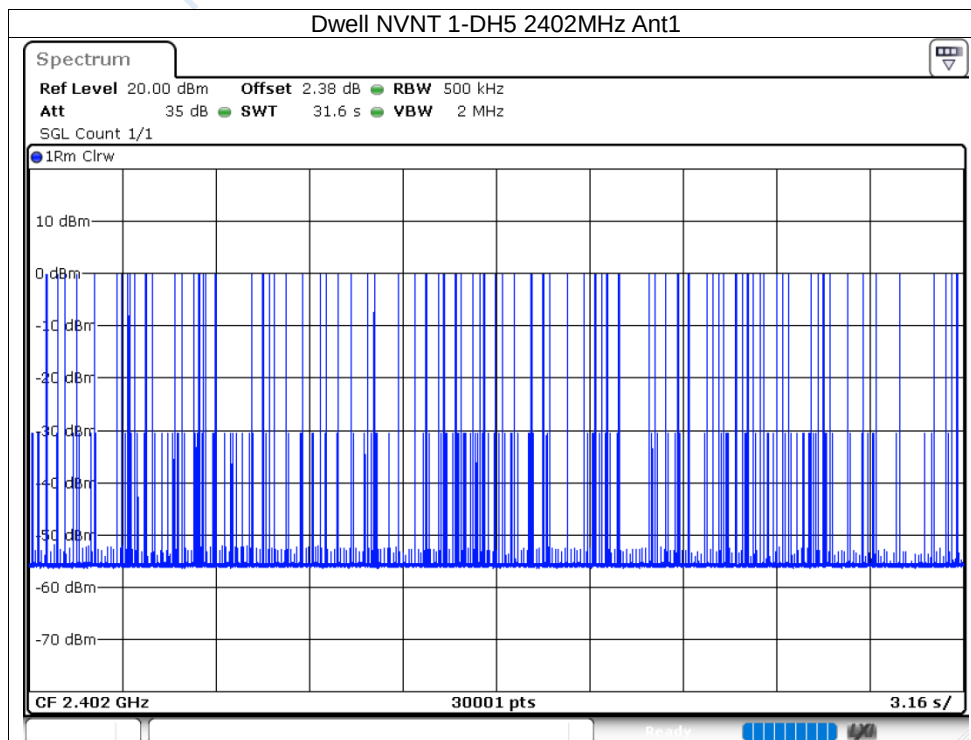
11.2 Watch:

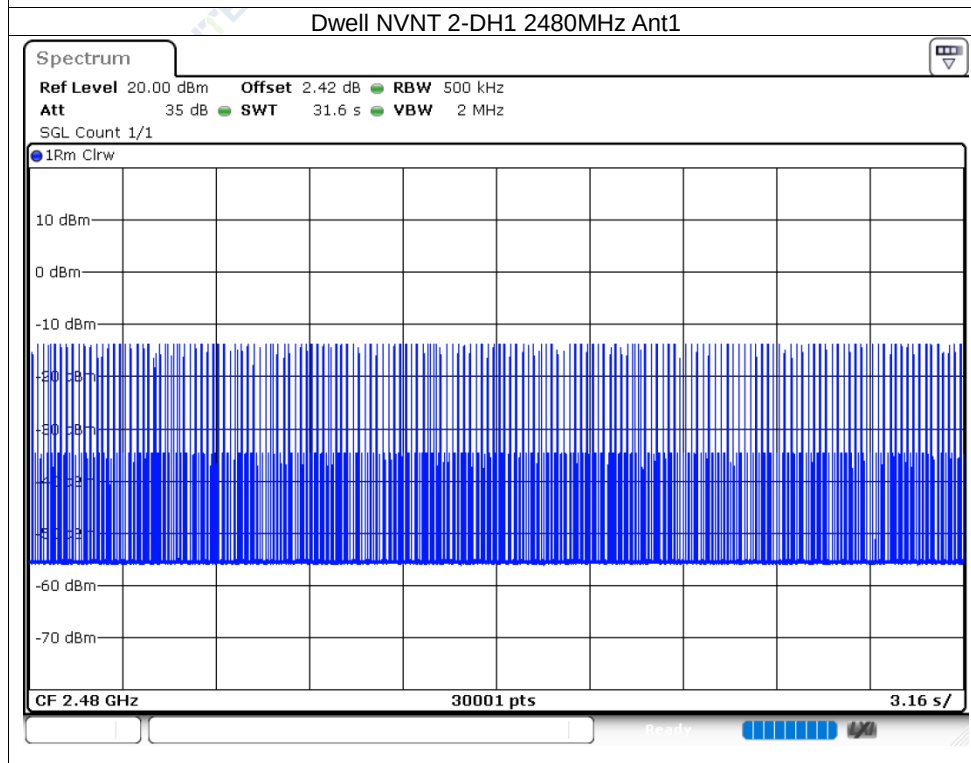
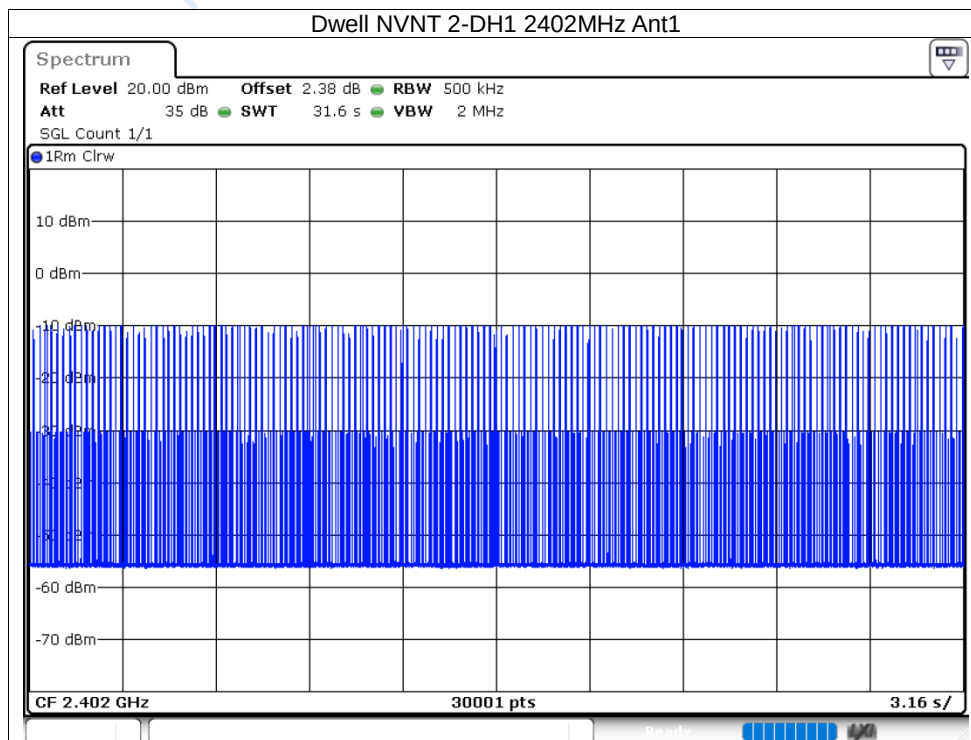
11.2.1 Accumulated Transmit Time

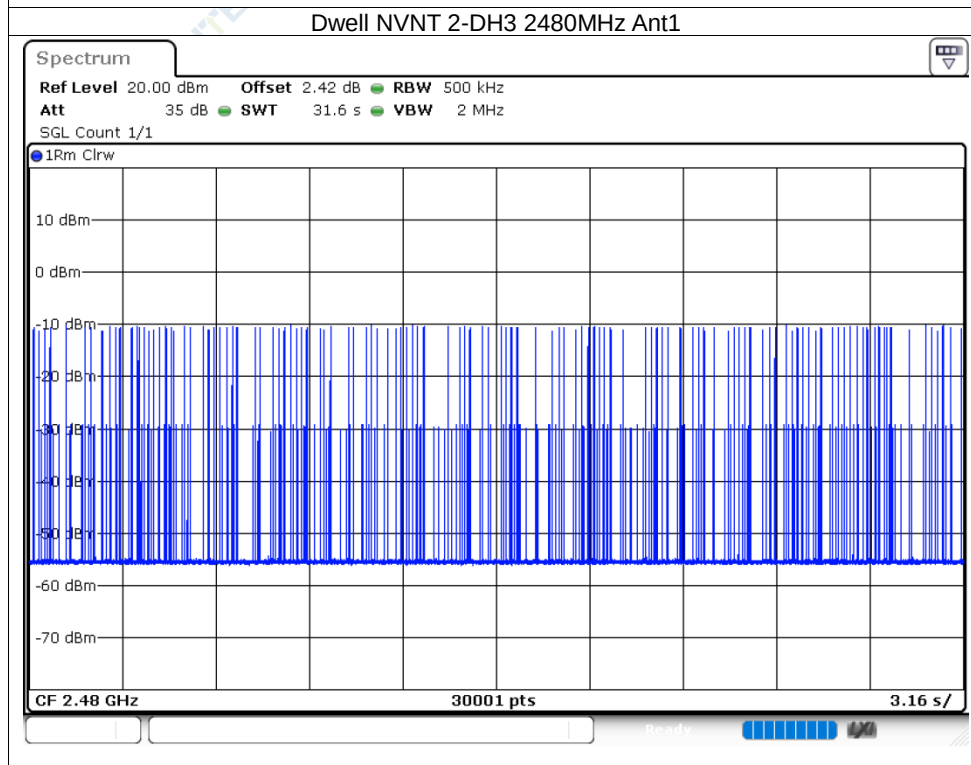
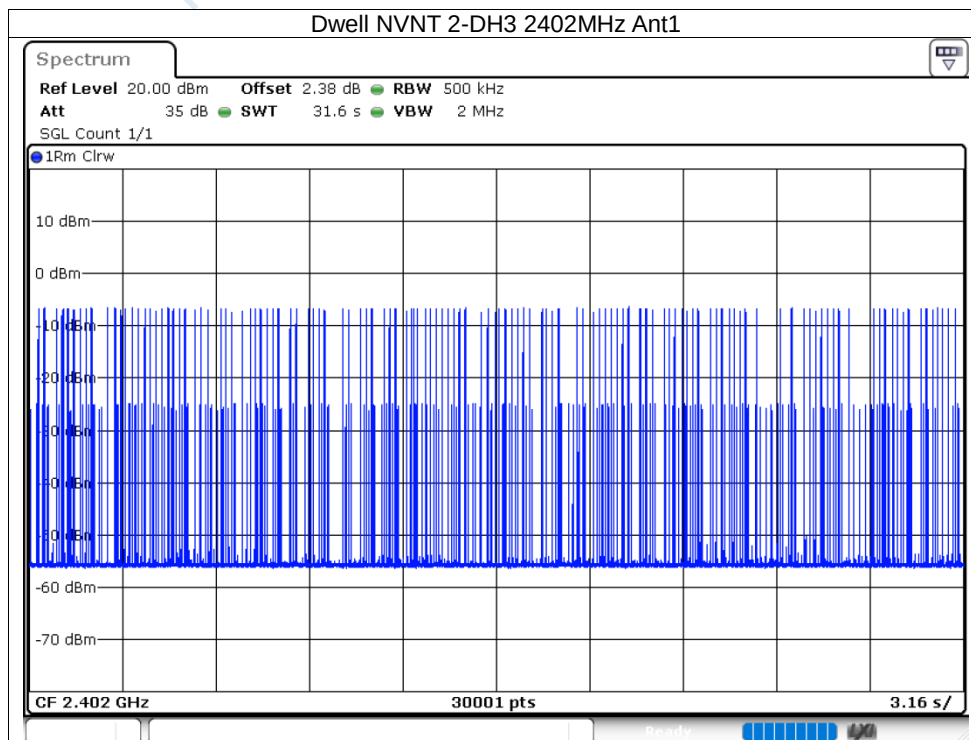
Condition	Mode	Frequency (MHz)	Antenna	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH1	2402	Ant1	129.92	400	31600	320	Pass
NVNT	1-DH1	2480	Ant1	129.514	400	31600	319	Pass
NVNT	1-DH3	2402	Ant1	254.286	400	31600	153	Pass
NVNT	1-DH3	2480	Ant1	265.92	400	31600	160	Pass
NVNT	1-DH5	2402	Ant1	305.445	400	31600	105	Pass
NVNT	1-DH5	2480	Ant1	270.537	400	31600	93	Pass
NVNT	2-DH1	2402	Ant1	126.166	400	31600	317	Pass
NVNT	2-DH1	2480	Ant1	126.564	400	31600	318	Pass
NVNT	2-DH3	2402	Ant1	277.2	400	31600	168	Pass
NVNT	2-DH3	2480	Ant1	257.556	400	31600	156	Pass
NVNT	2-DH5	2402	Ant1	307.294	400	31600	106	Pass
NVNT	2-DH5	2480	Ant1	312.984	400	31600	108	Pass
NVNT	3-DH1	2402	Ant1	125.055	400	31600	315	Pass
NVNT	3-DH1	2480	Ant1	125.452	400	31600	316	Pass
NVNT	3-DH3	2402	Ant1	268.298	400	31600	163	Pass
NVNT	3-DH3	2480	Ant1	260.226	400	31600	158	Pass
NVNT	3-DH5	2402	Ant1	350.537	400	31600	121	Pass
NVNT	3-DH5	2480	Ant1	298.391	400	31600	103	Pass

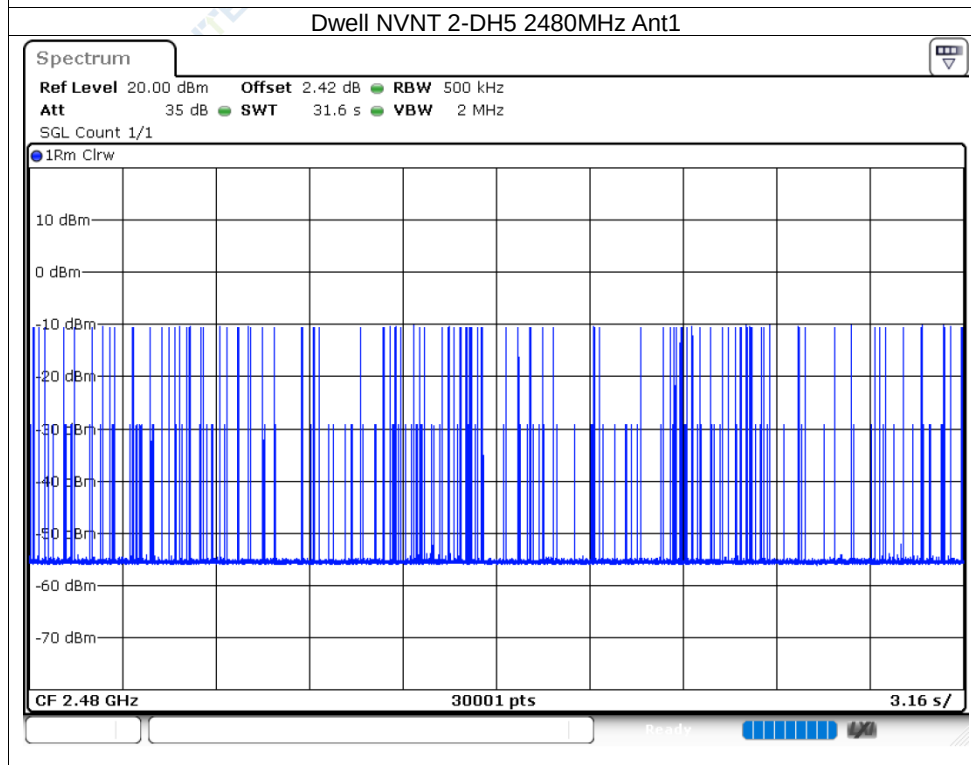
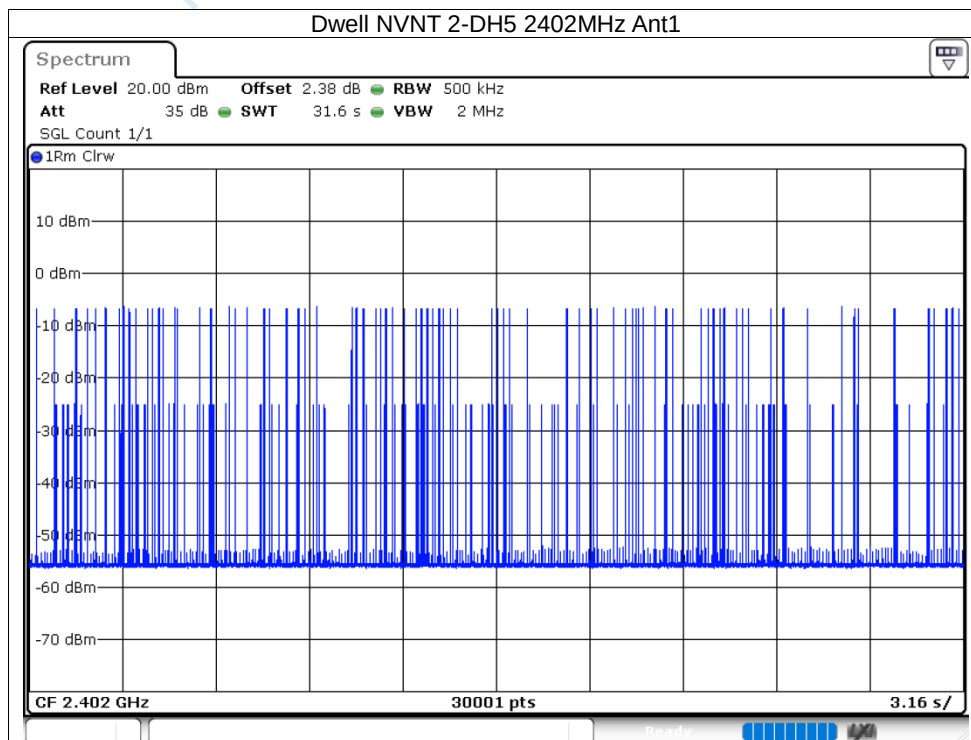


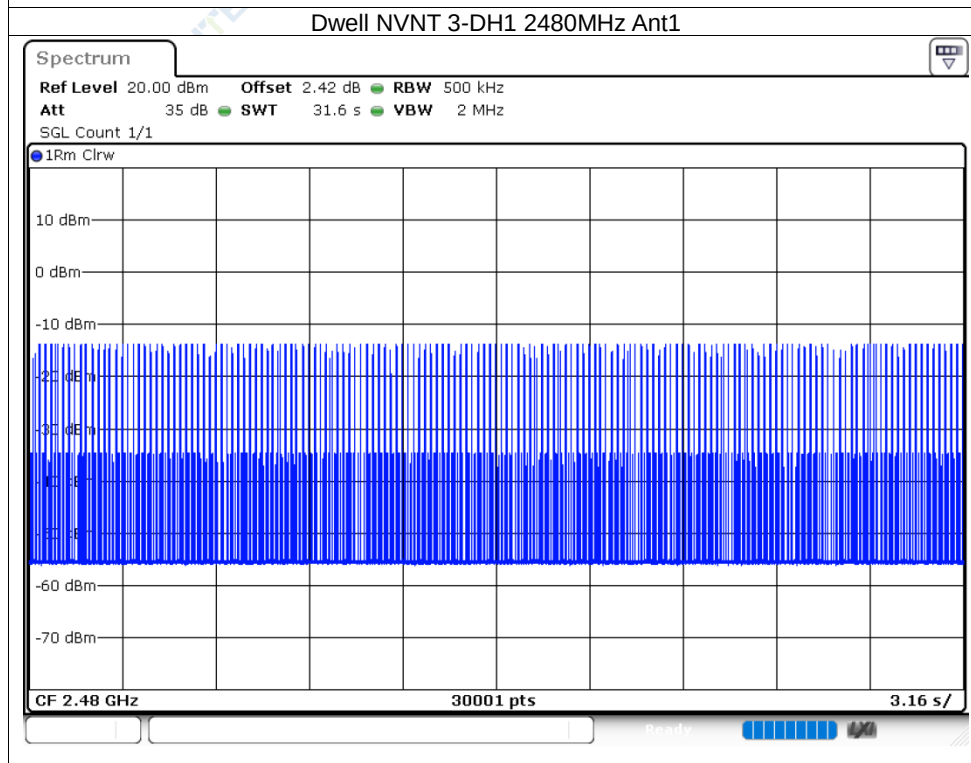
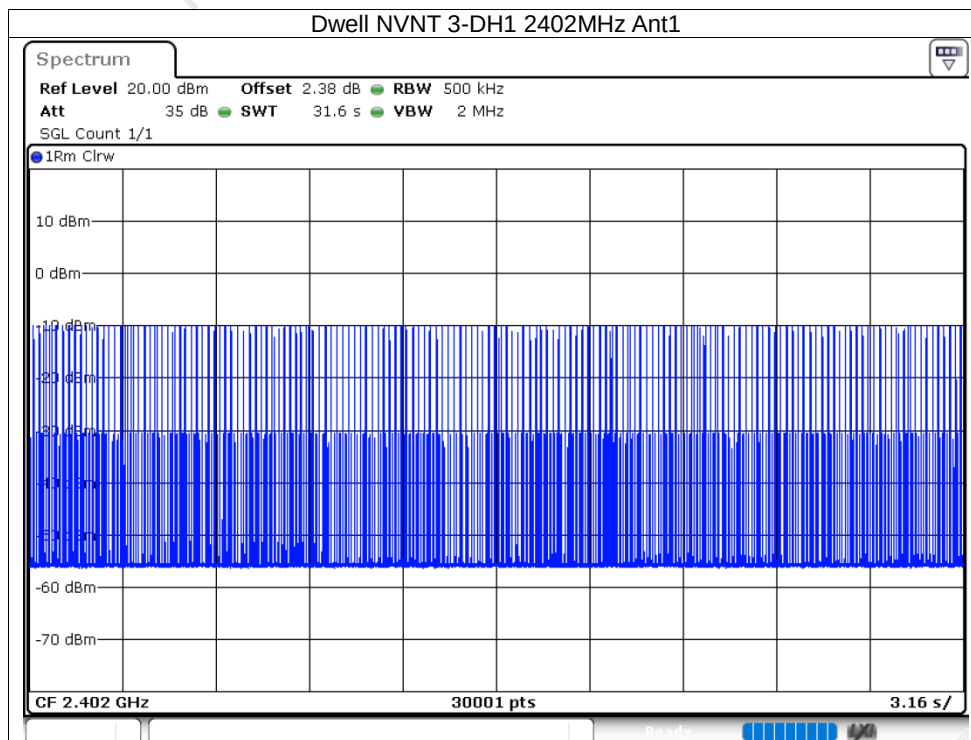


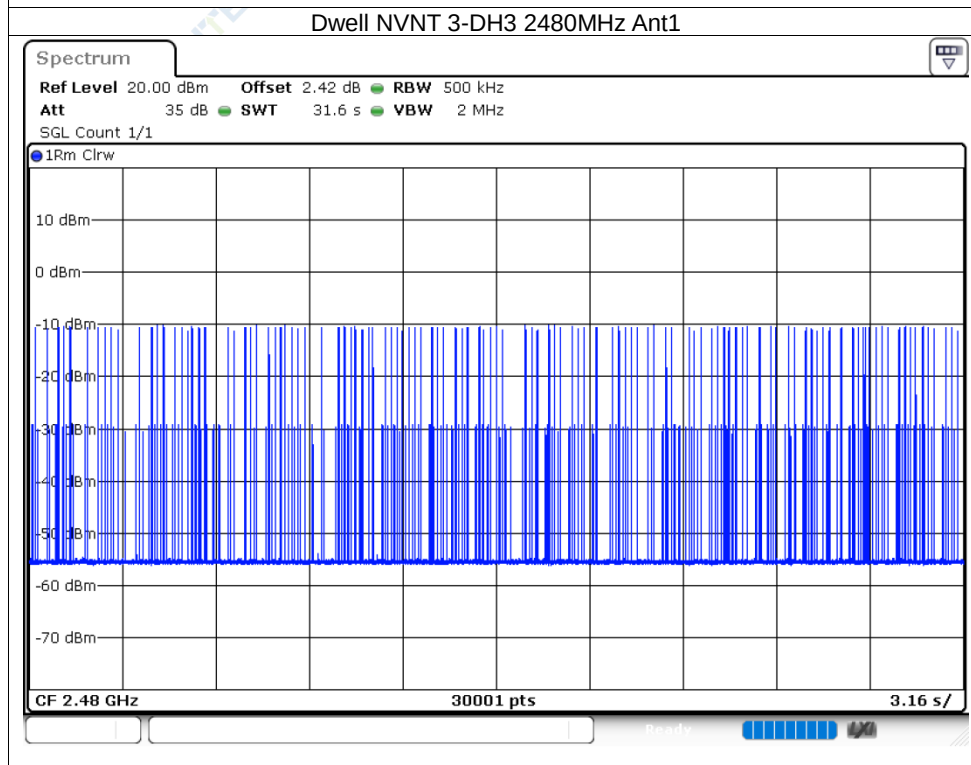
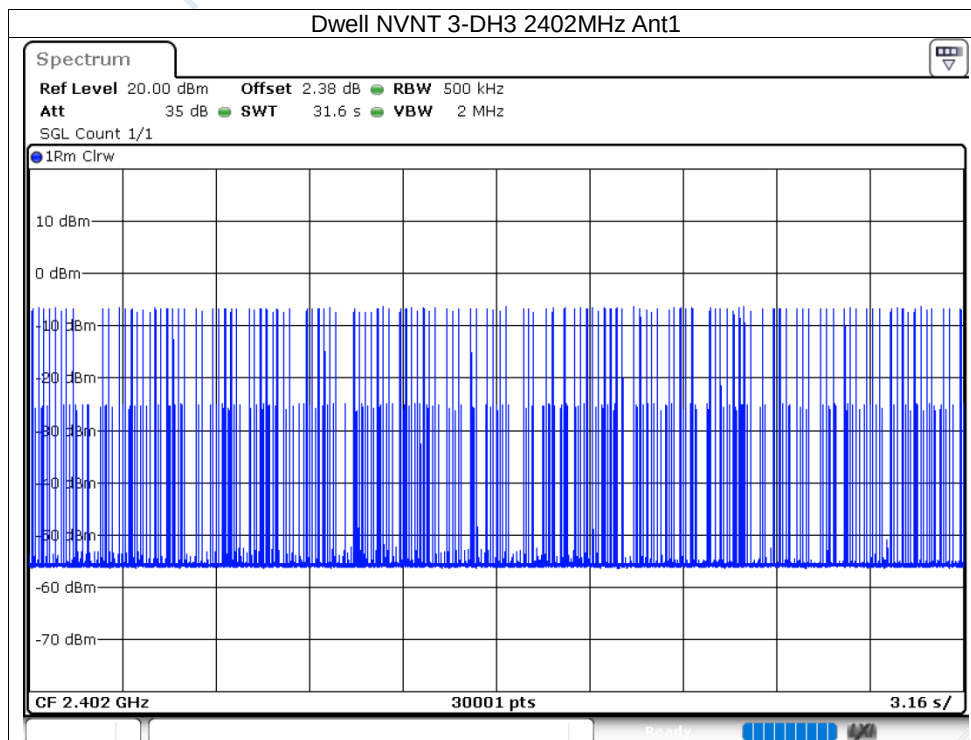


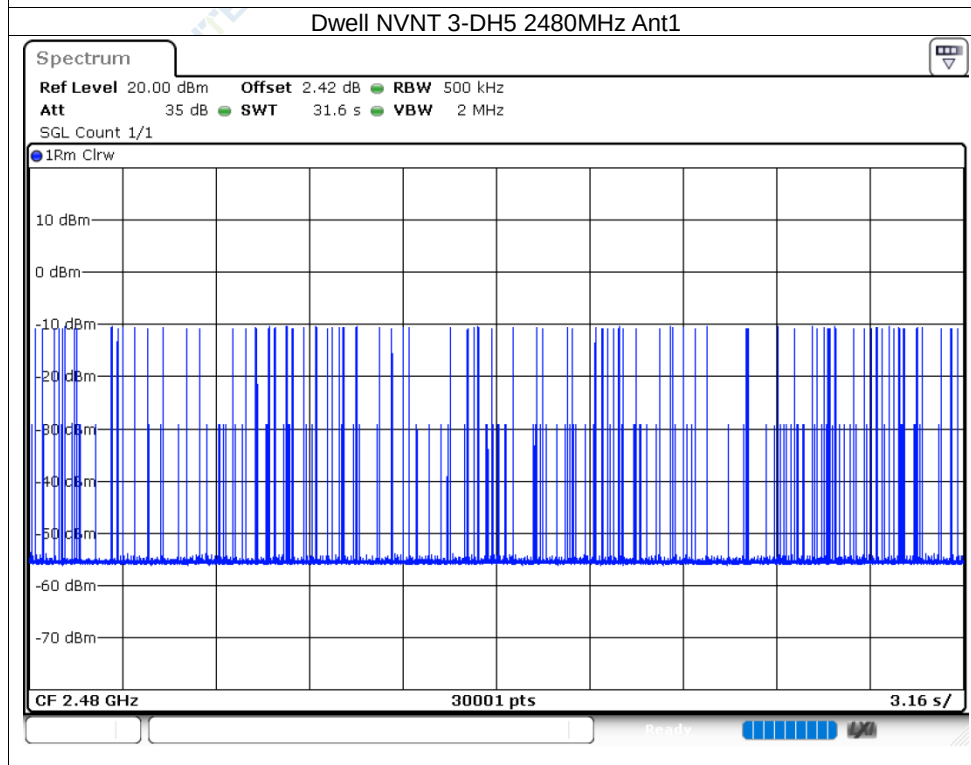
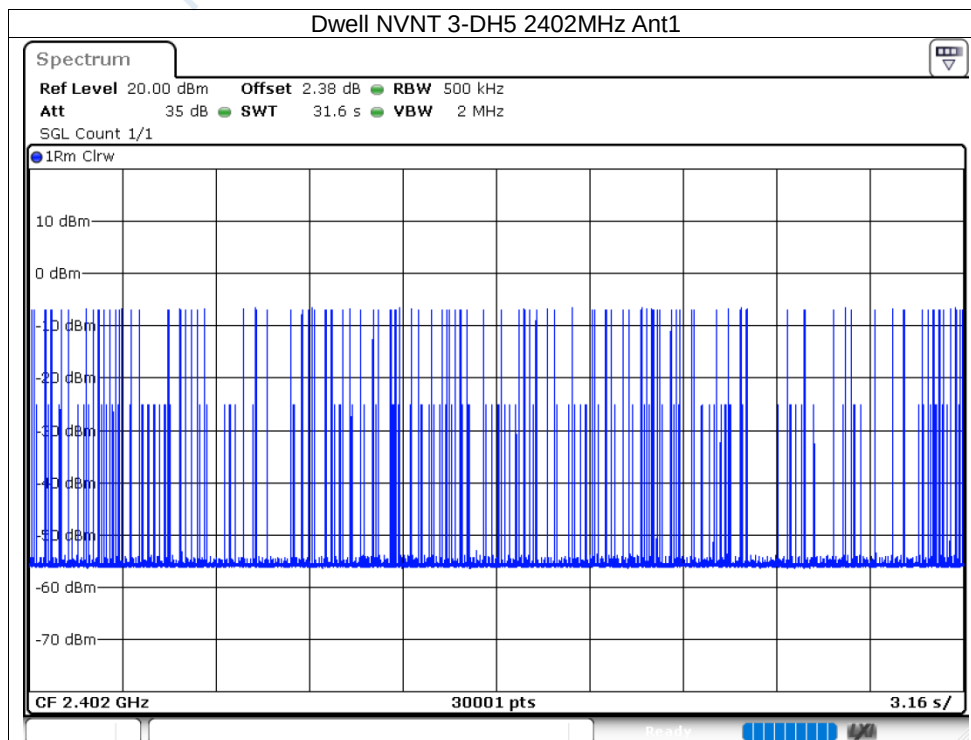






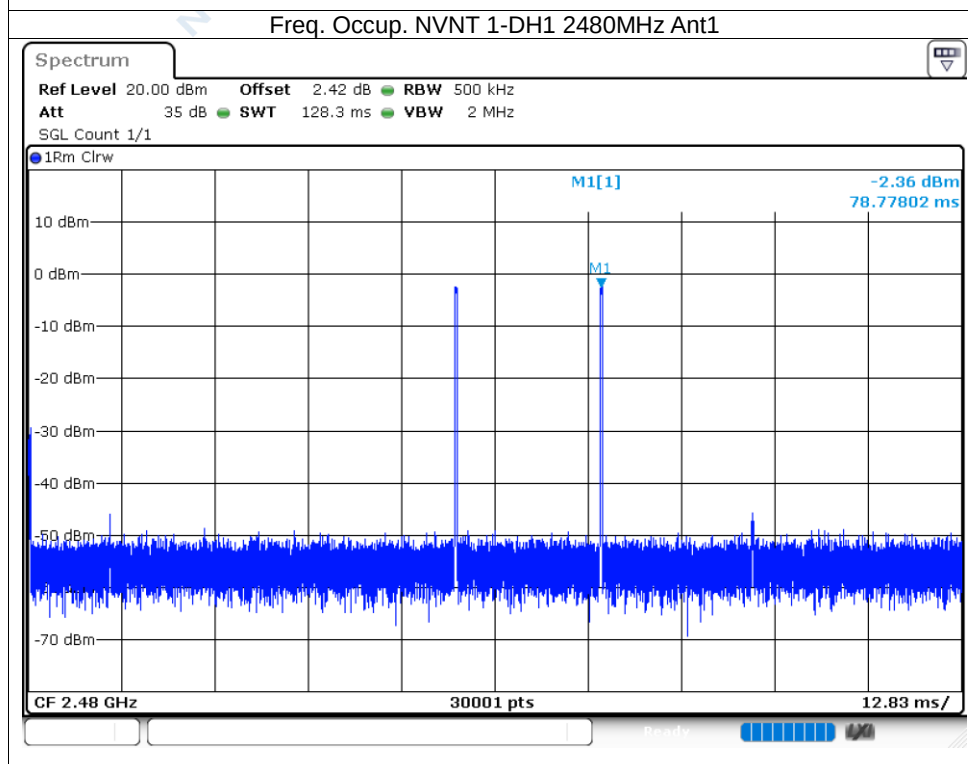
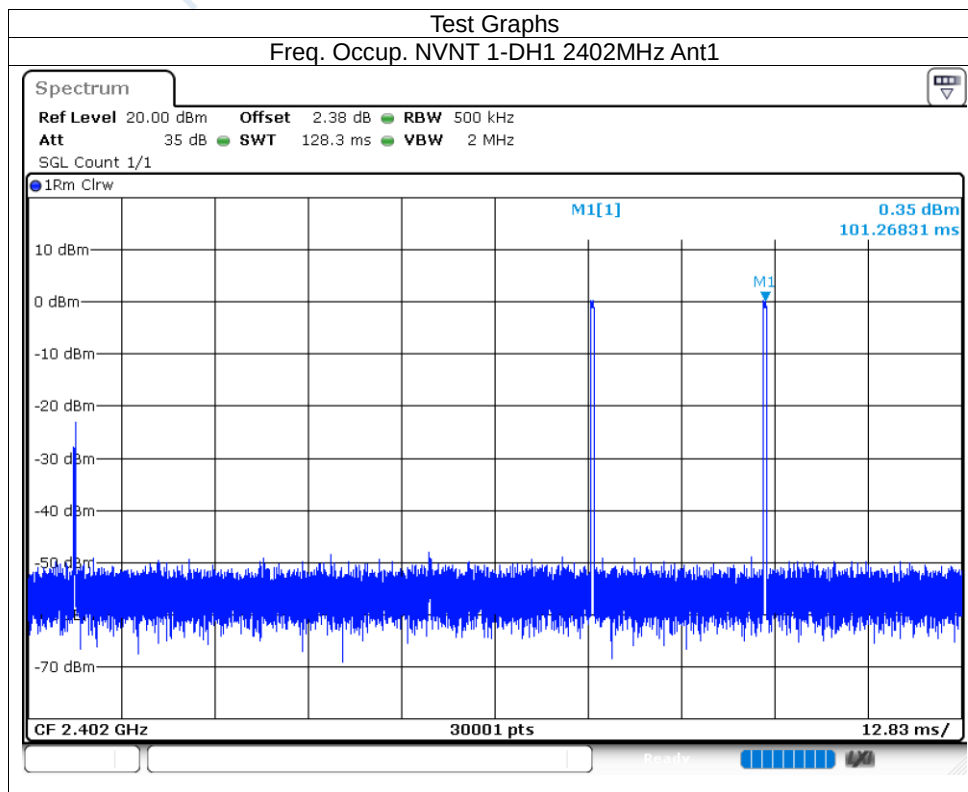


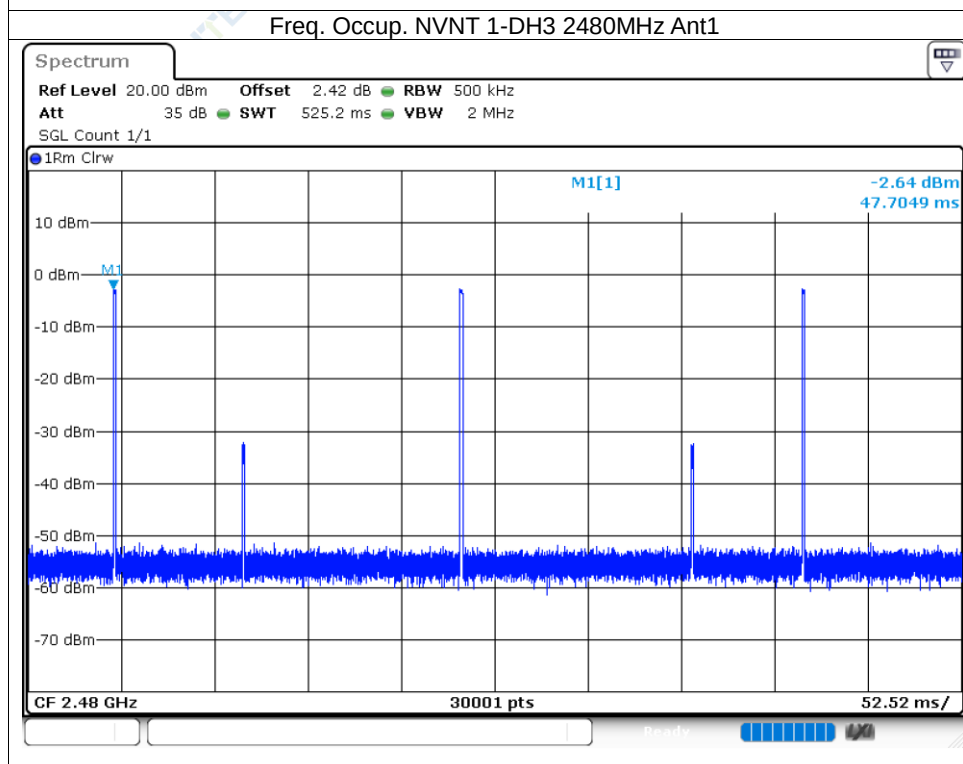
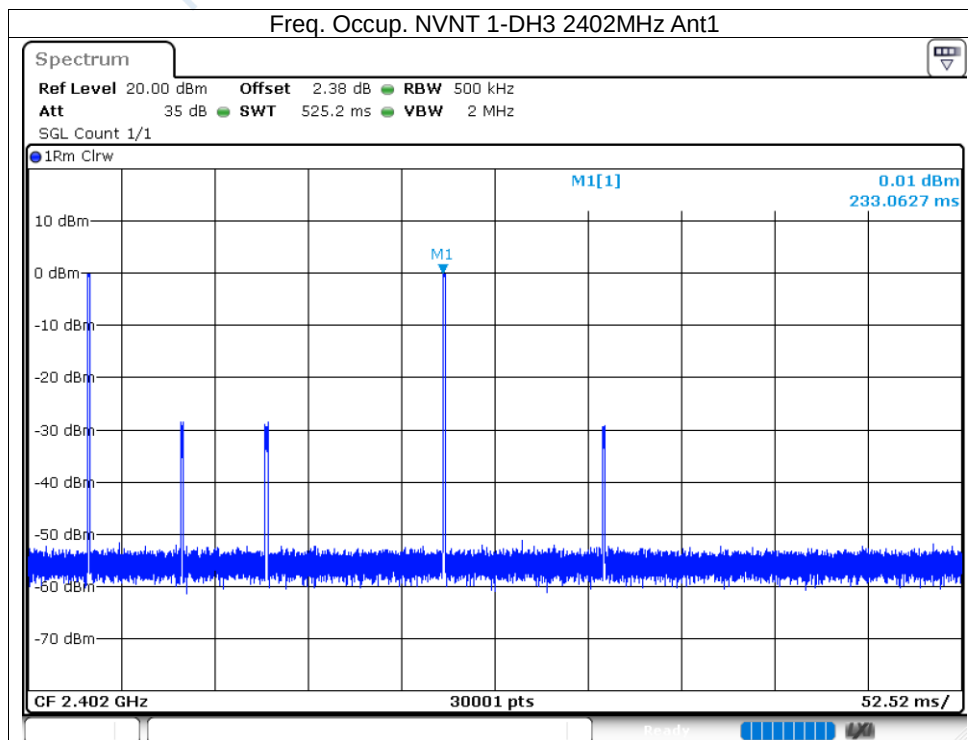


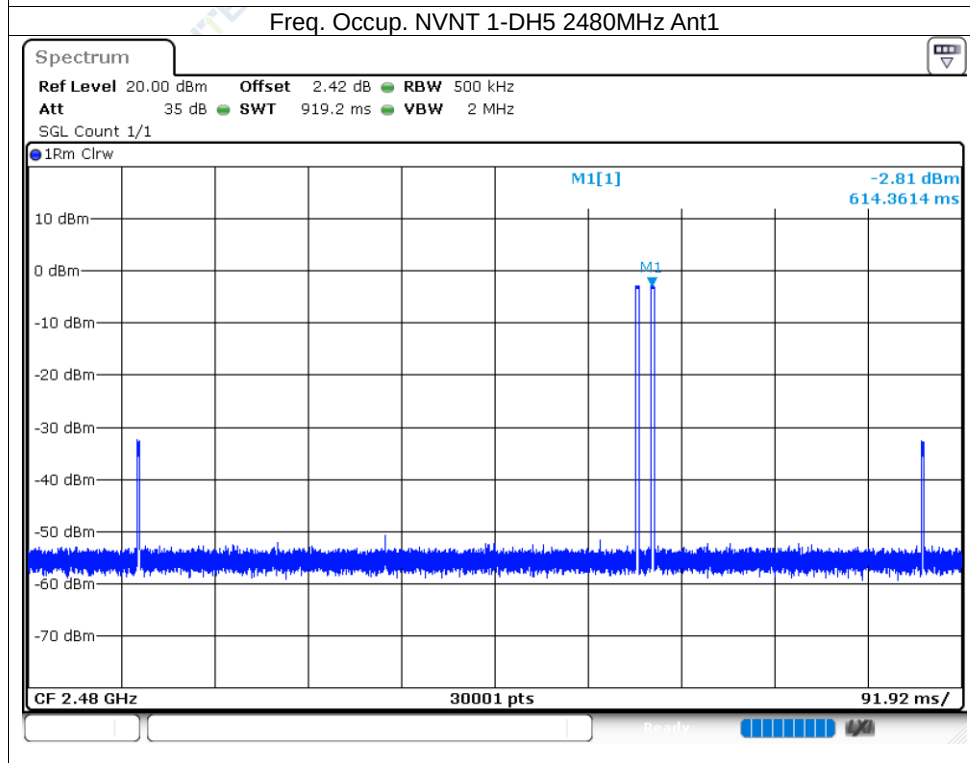
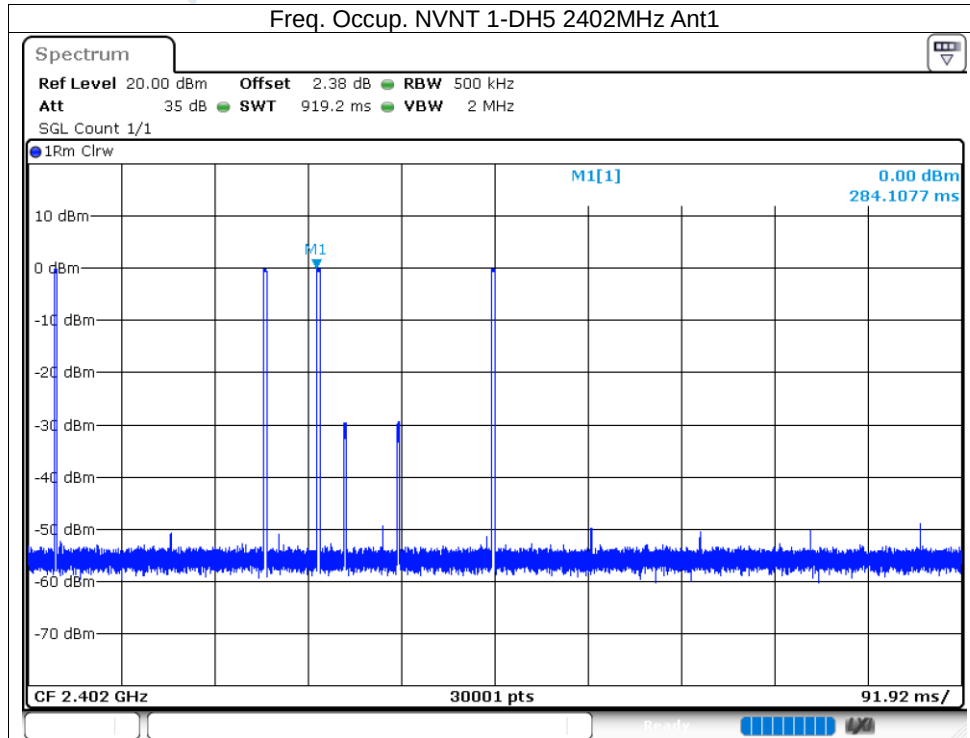


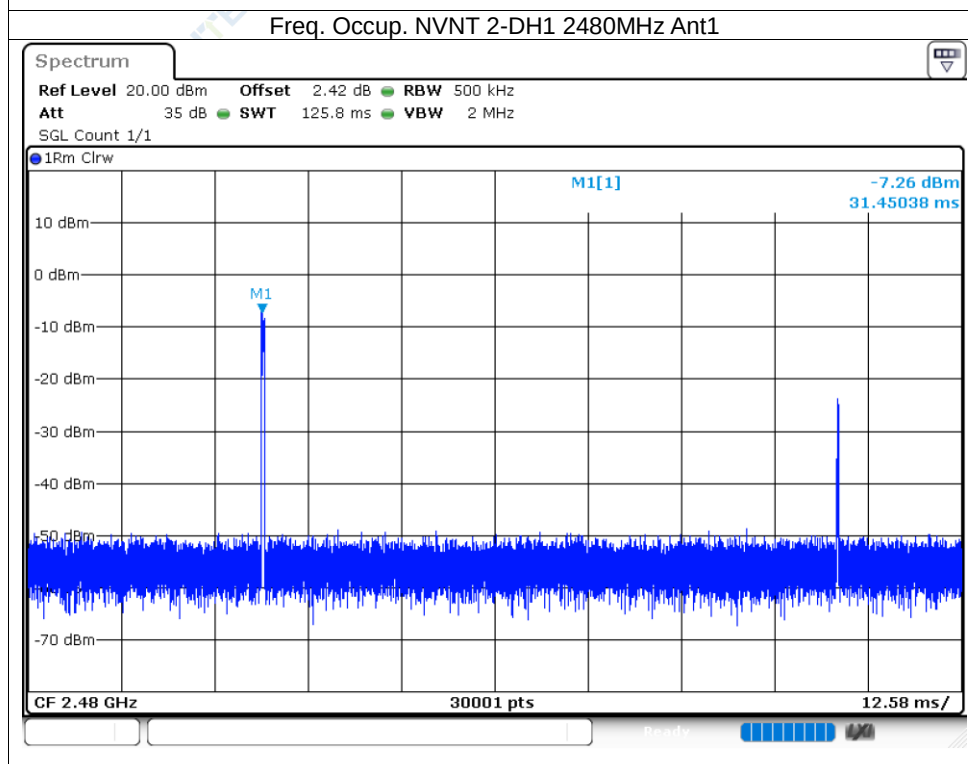
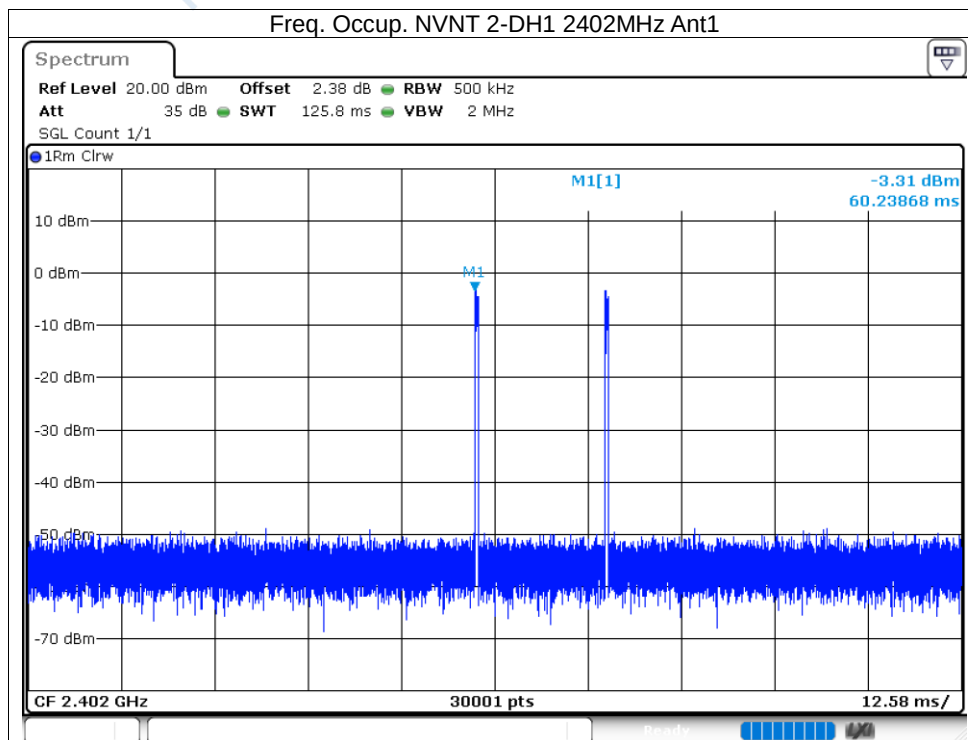
11.2.2 Frequency Occupation

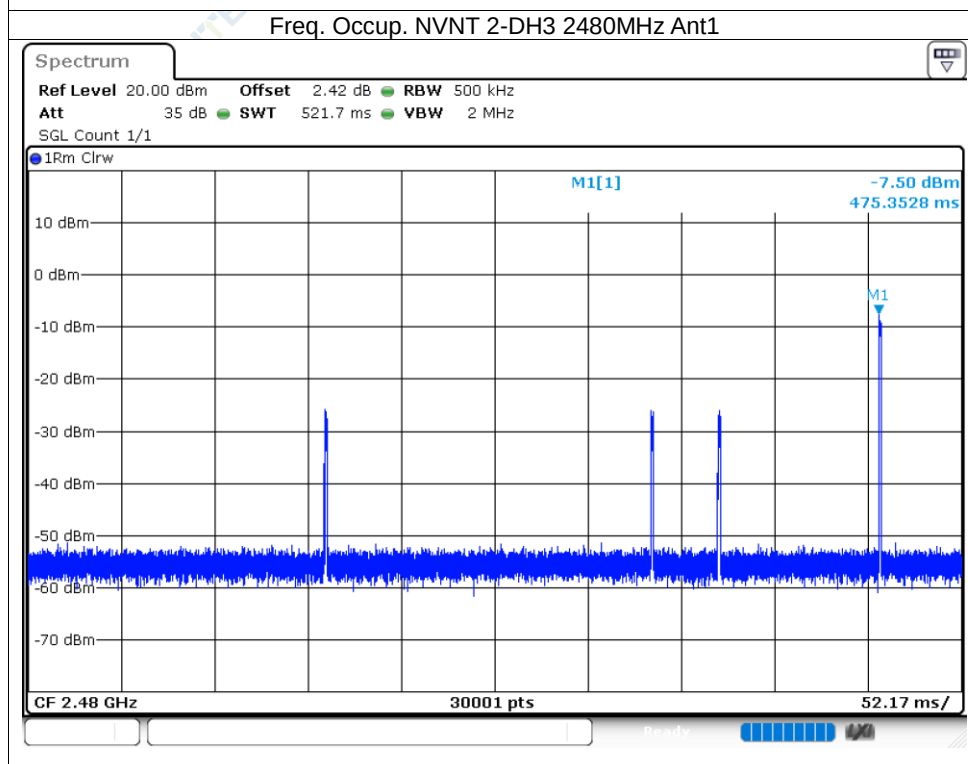
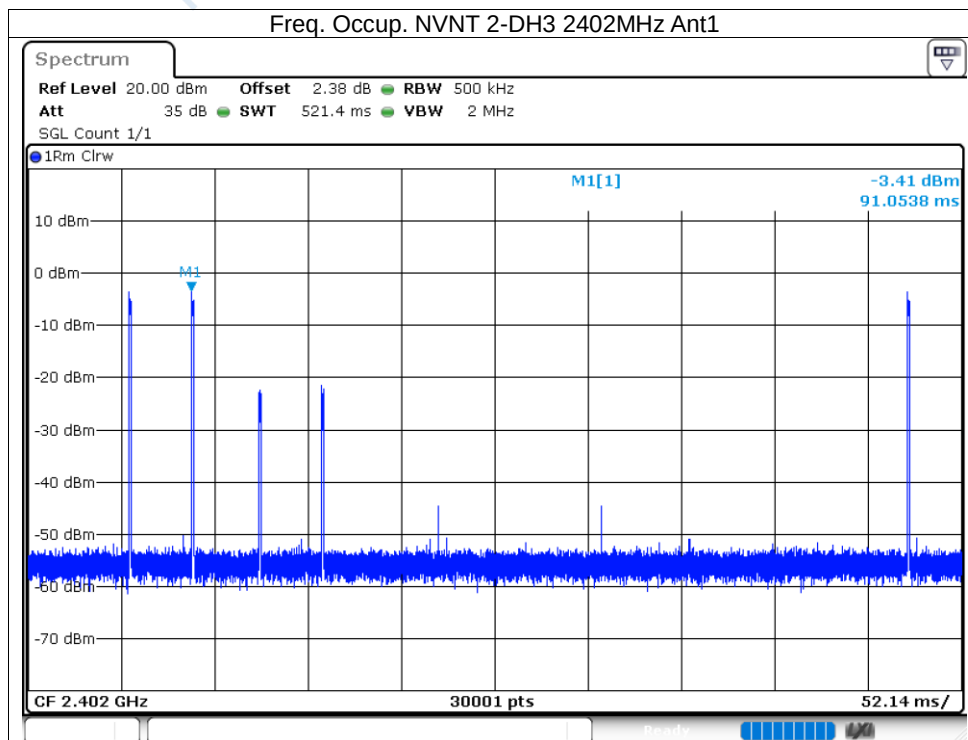
Condition	Mode	Frequency (MHz)	Antenna	Burst Number	Limit	Sweep Time (ms)	Verdict
NVNT	1-DH1	2402	Ant1	2	1	128.296	Pass
NVNT	1-DH1	2480	Ant1	2	1	128.296	Pass
NVNT	1-DH3	2402	Ant1	2	1	525.192	Pass
NVNT	1-DH3	2480	Ant1	3	1	525.192	Pass
NVNT	1-DH5	2402	Ant1	4	1	919.244	Pass
NVNT	1-DH5	2480	Ant1	2	1	919.244	Pass
NVNT	2-DH1	2402	Ant1	2	1	125.768	Pass
NVNT	2-DH1	2480	Ant1	1	1	125.768	Pass
NVNT	2-DH3	2402	Ant1	3	1	521.4	Pass
NVNT	2-DH3	2480	Ant1	1	1	521.716	Pass
NVNT	2-DH5	2402	Ant1	1	1	916.084	Pass
NVNT	2-DH5	2480	Ant1	1	1	915.768	Pass
NVNT	3-DH1	2402	Ant1	2	1	125.452	Pass
NVNT	3-DH1	2480	Ant1	2	1	125.452	Pass
NVNT	3-DH3	2402	Ant1	2	1	520.136	Pass
NVNT	3-DH3	2480	Ant1	3	1	520.452	Pass
NVNT	3-DH5	2402	Ant1	1	1	915.452	Pass
NVNT	3-DH5	2480	Ant1	3	1	915.452	Pass

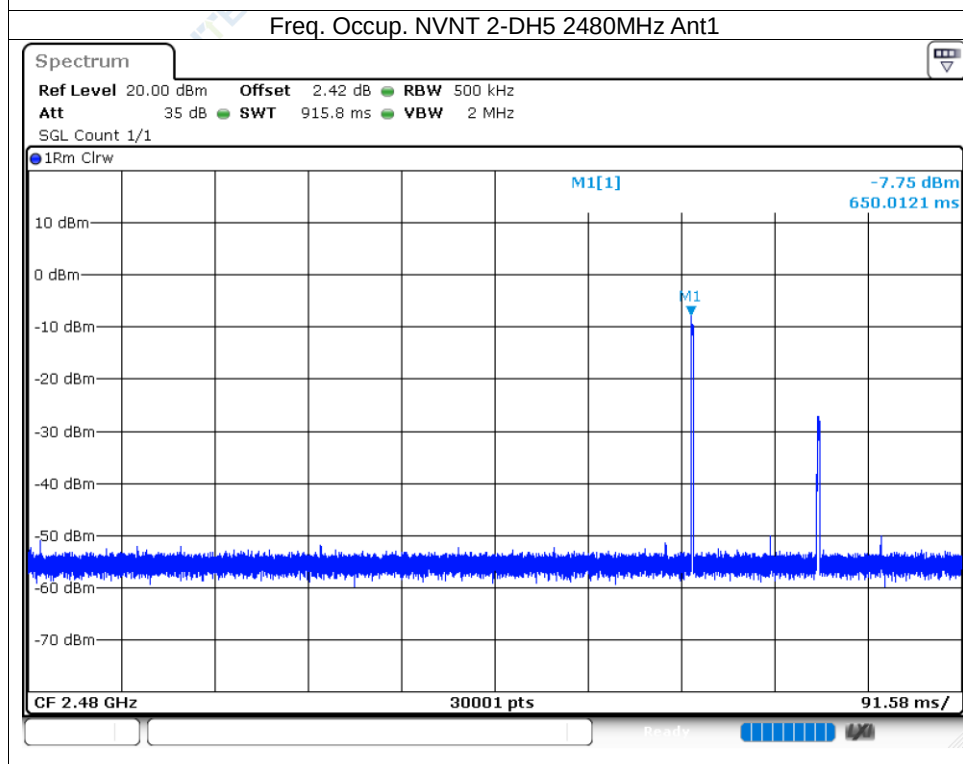
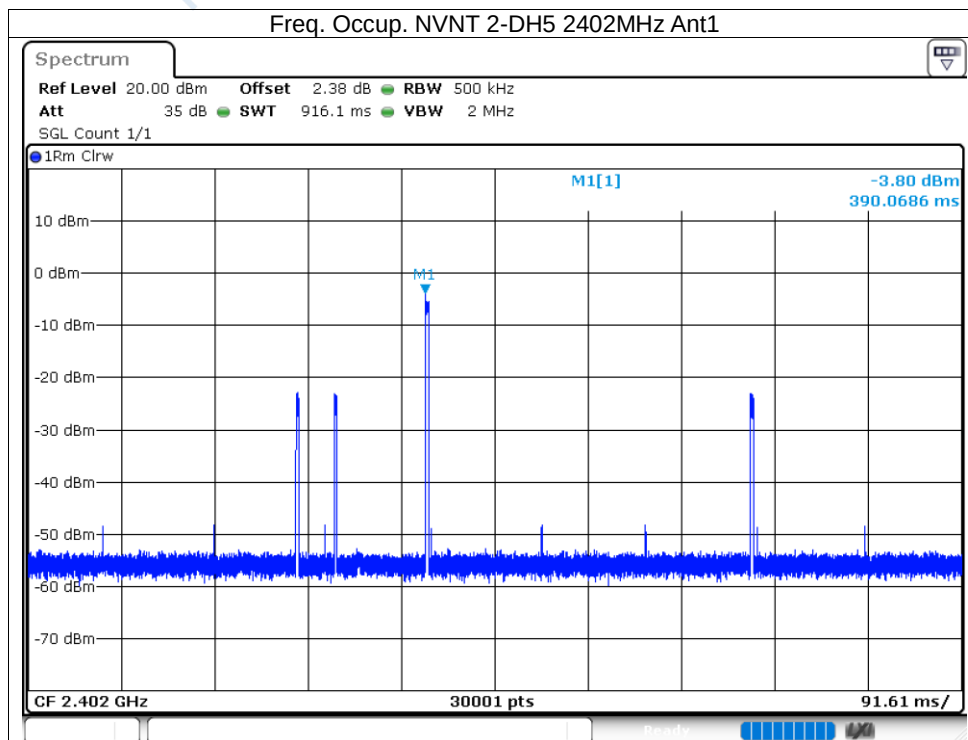


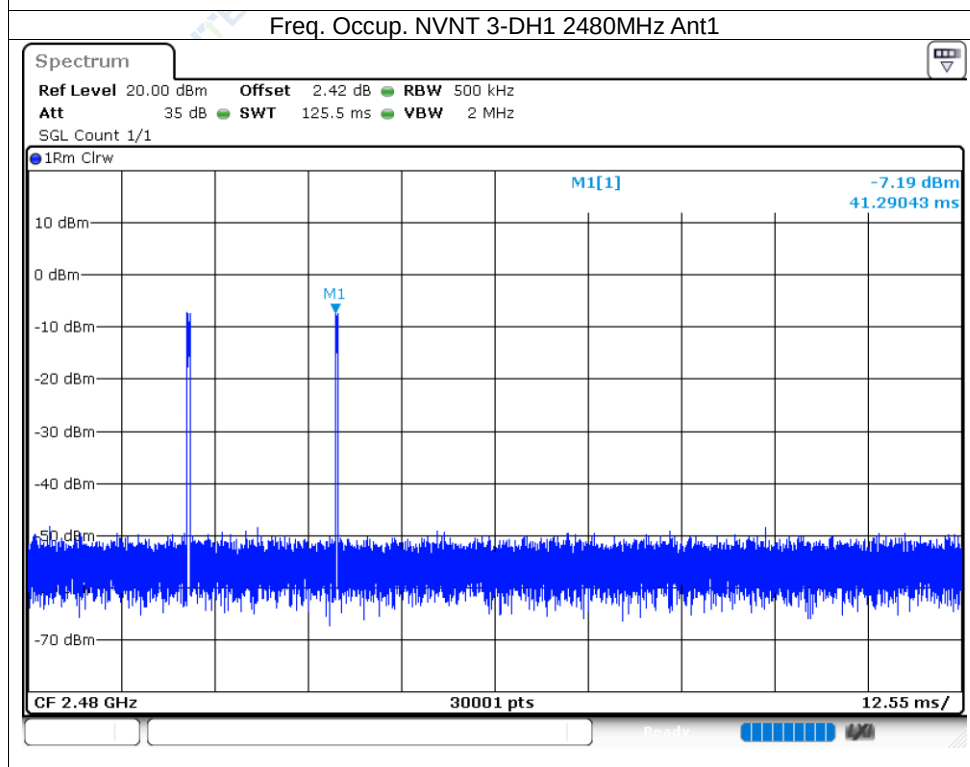
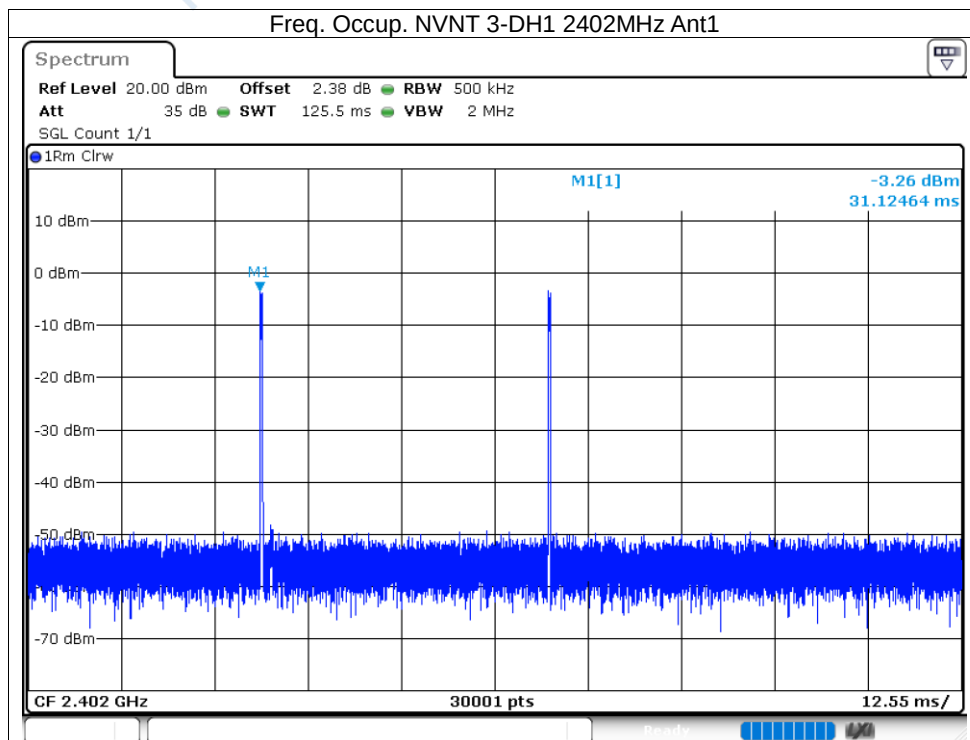


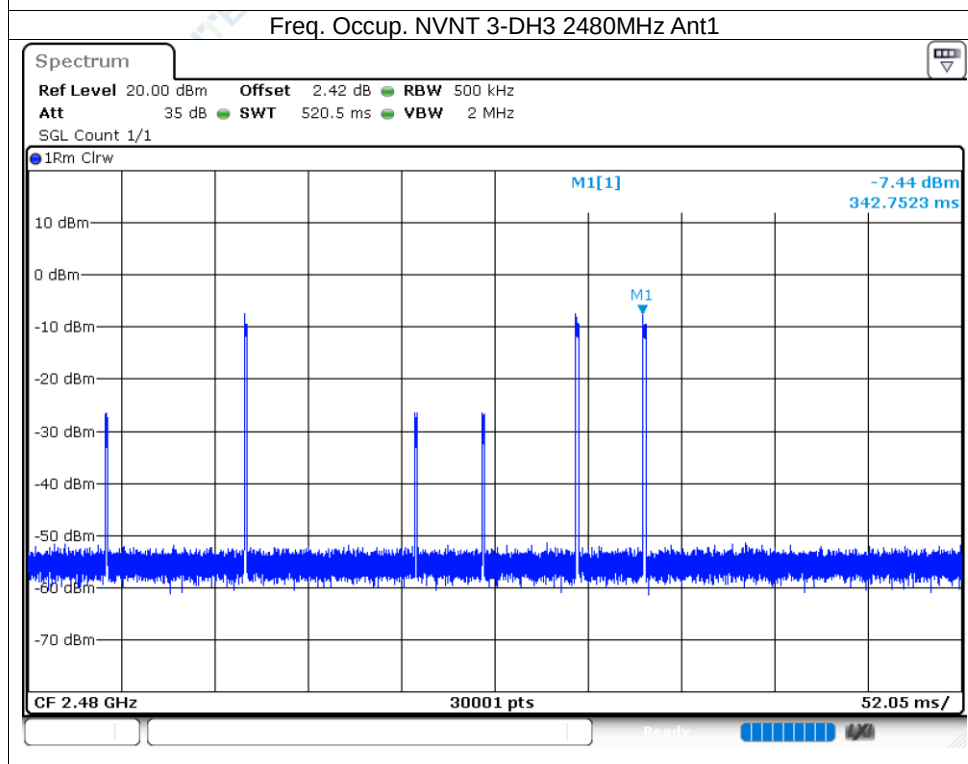
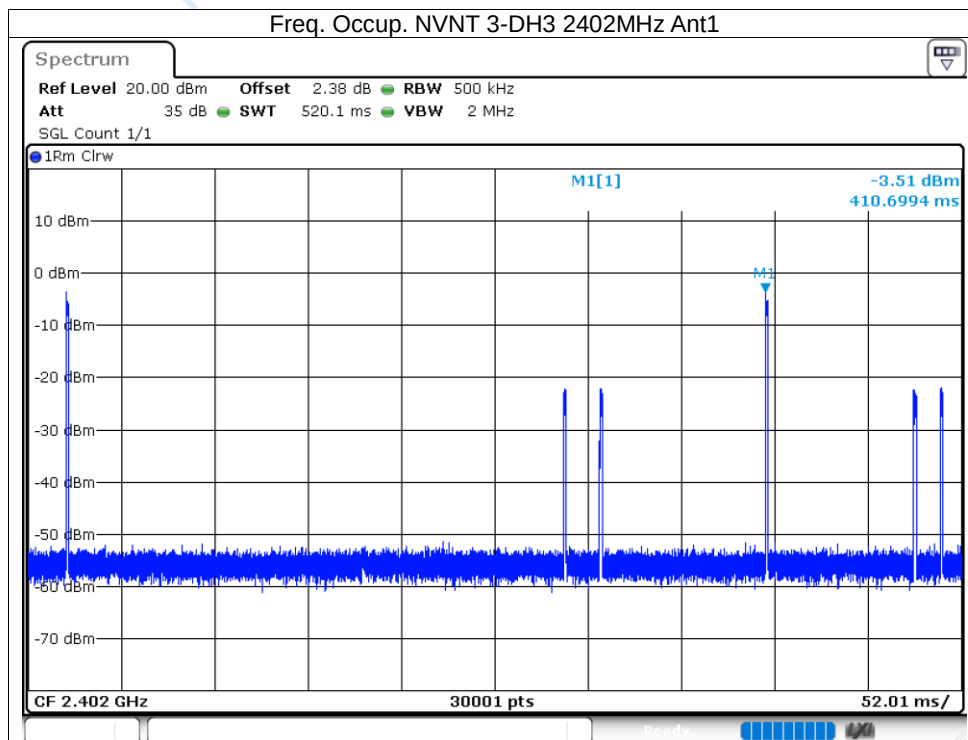


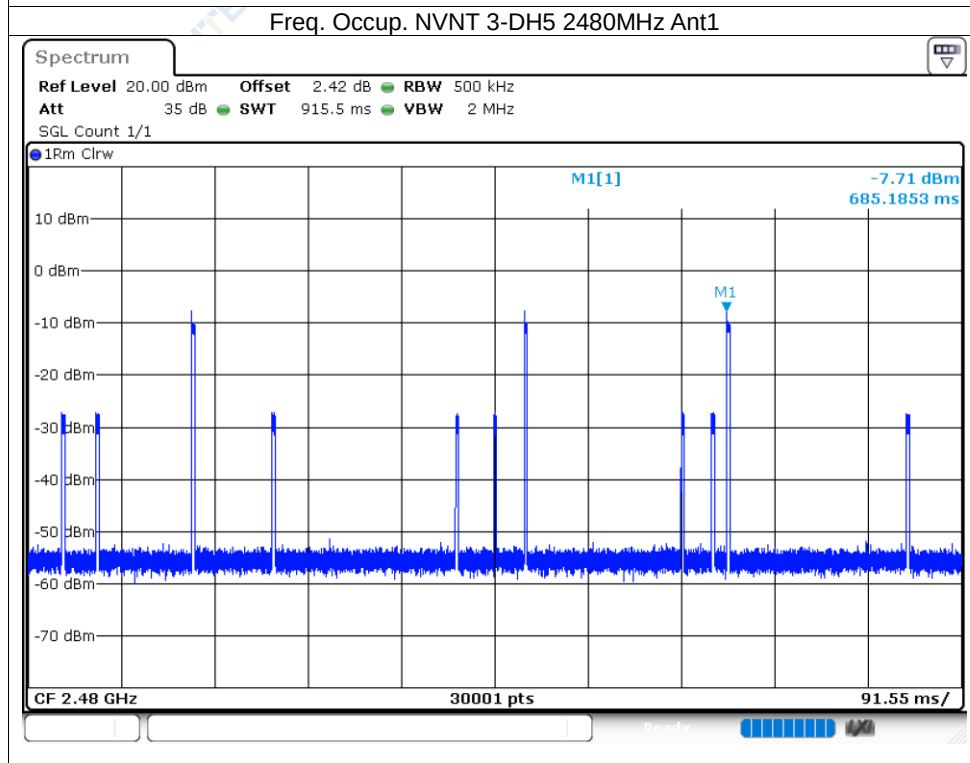
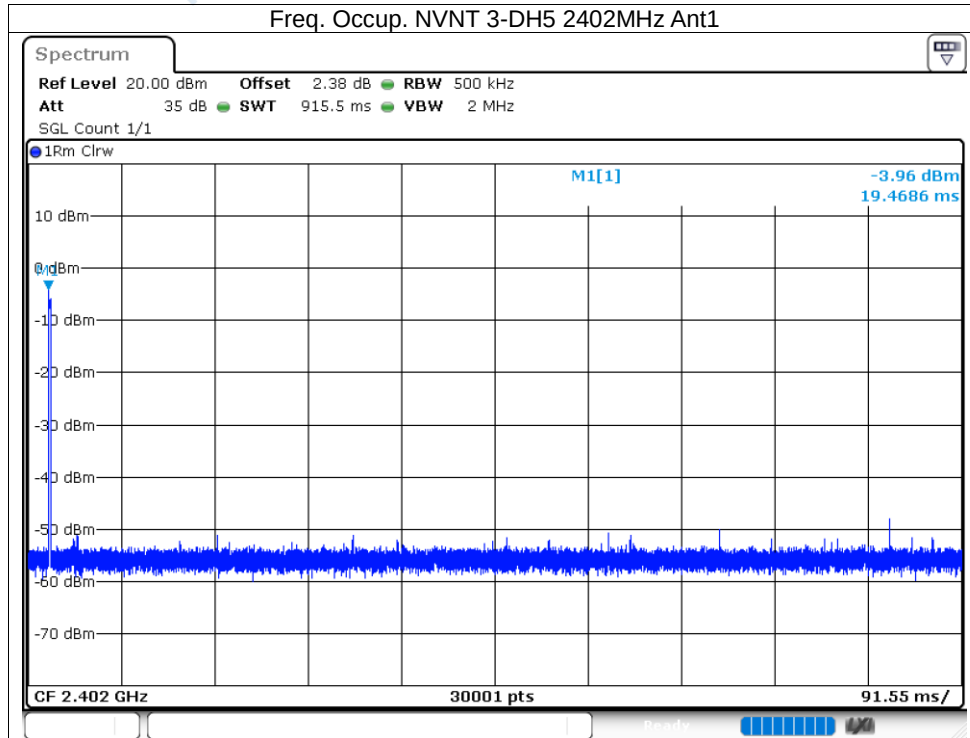






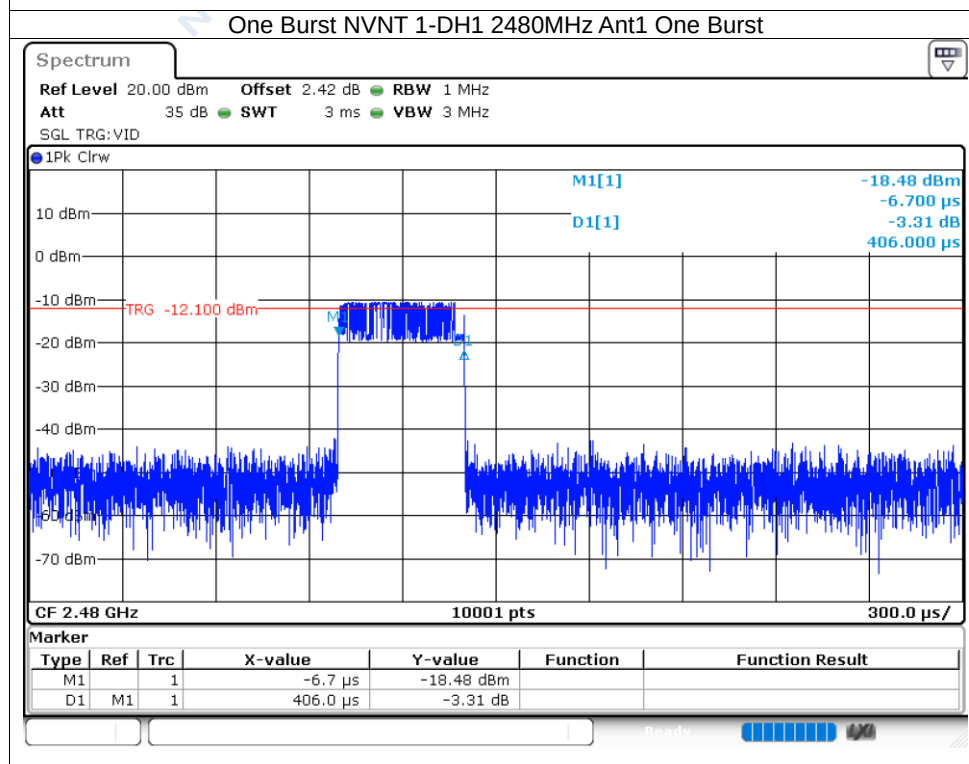
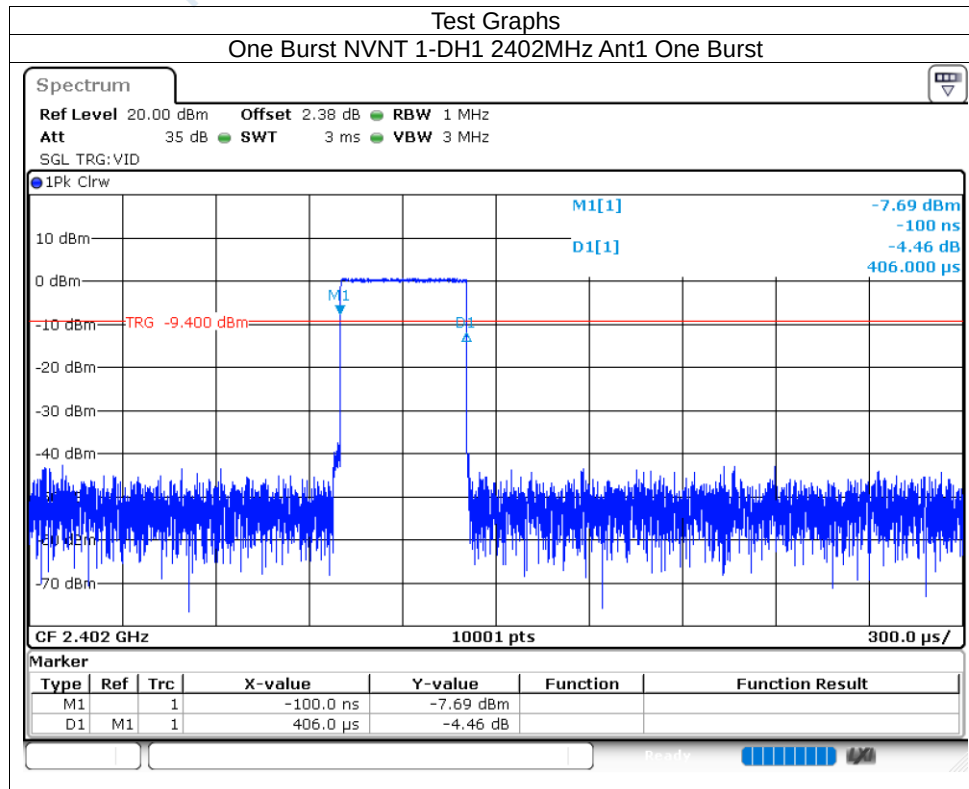


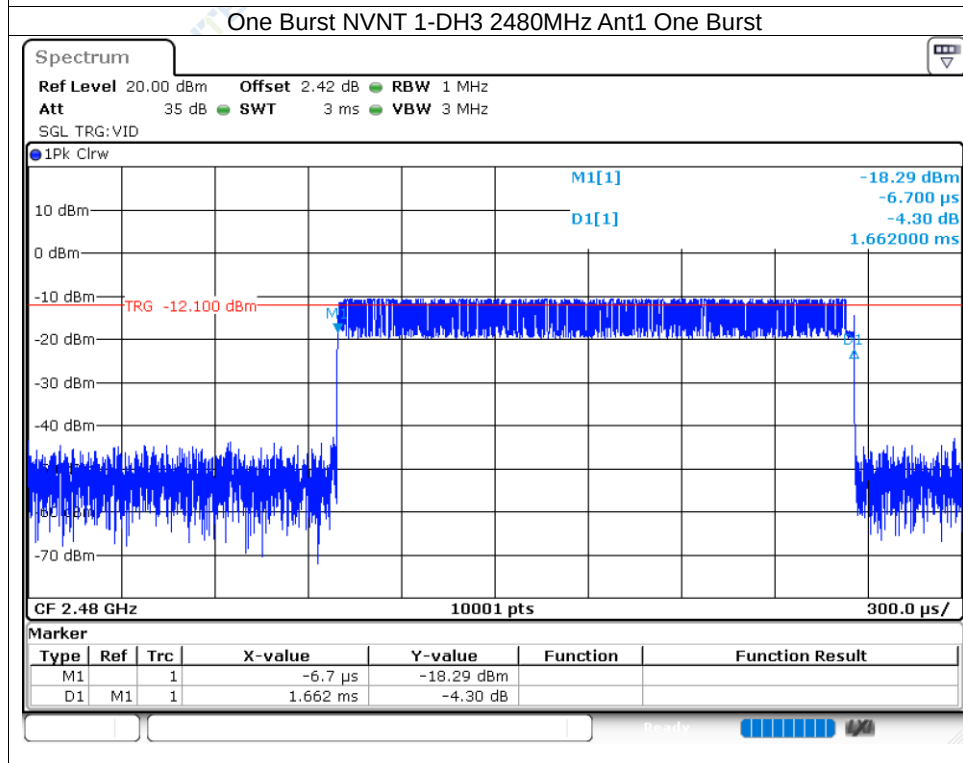
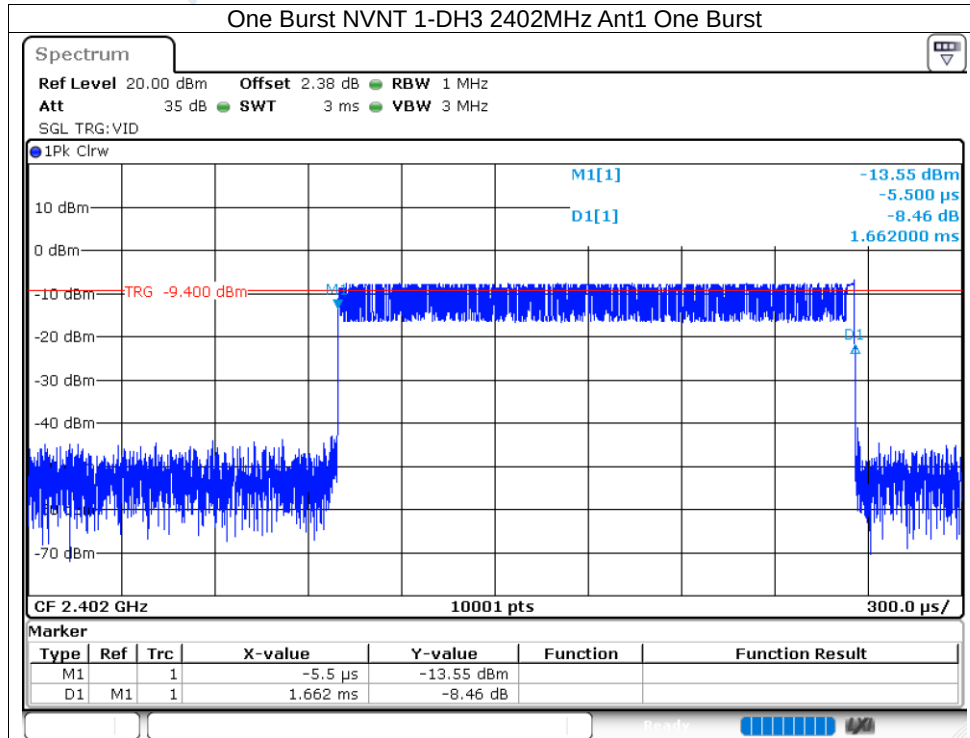


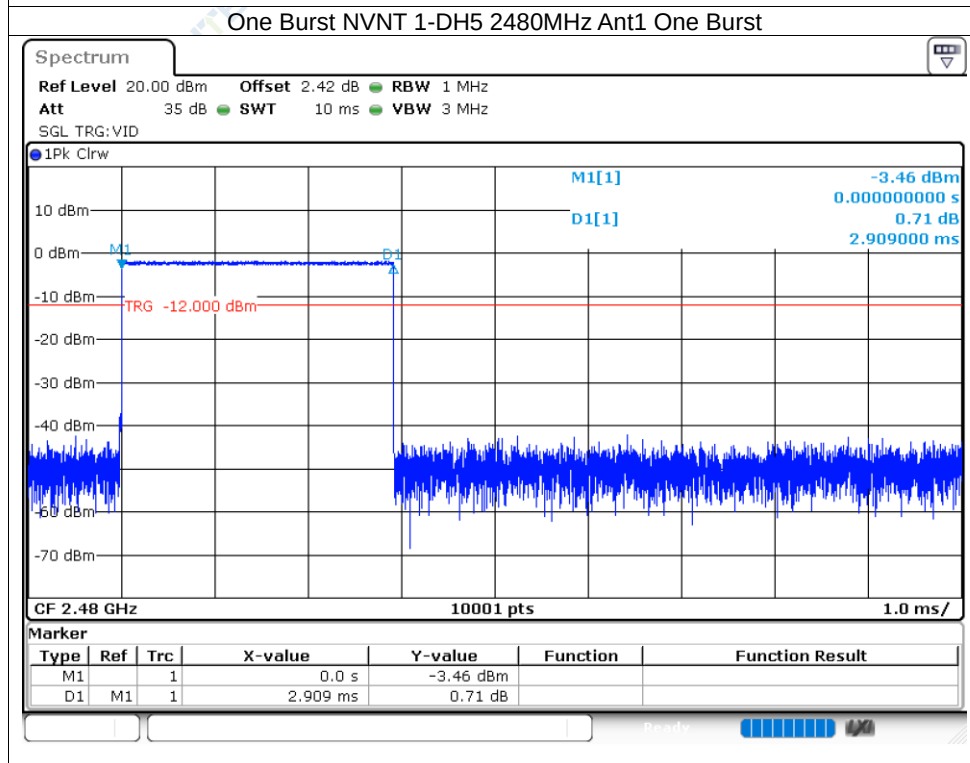
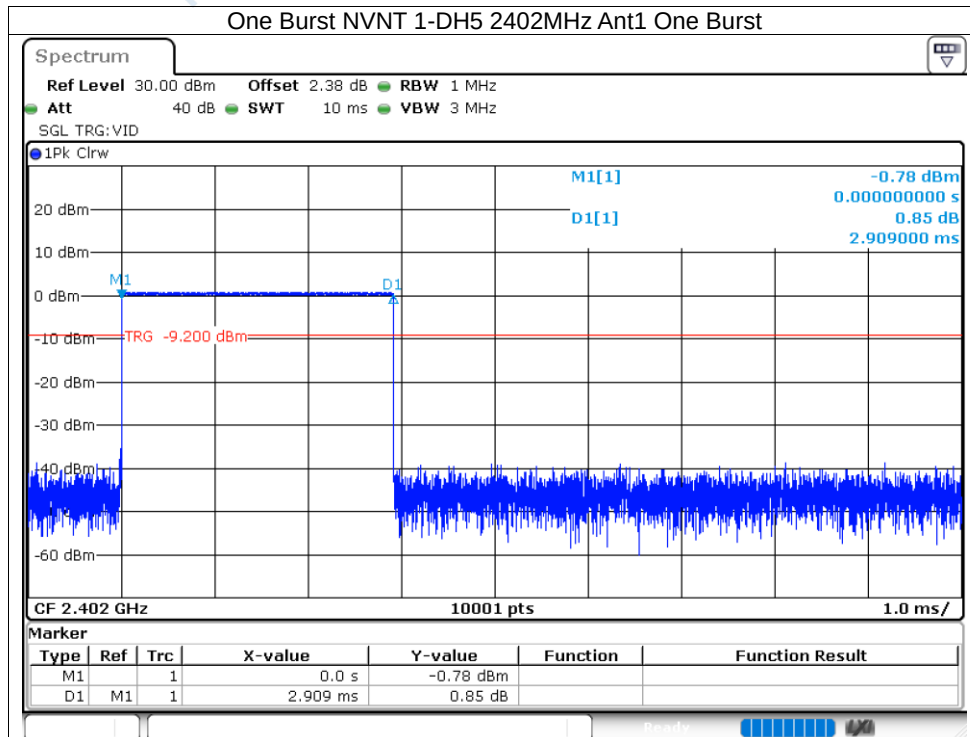


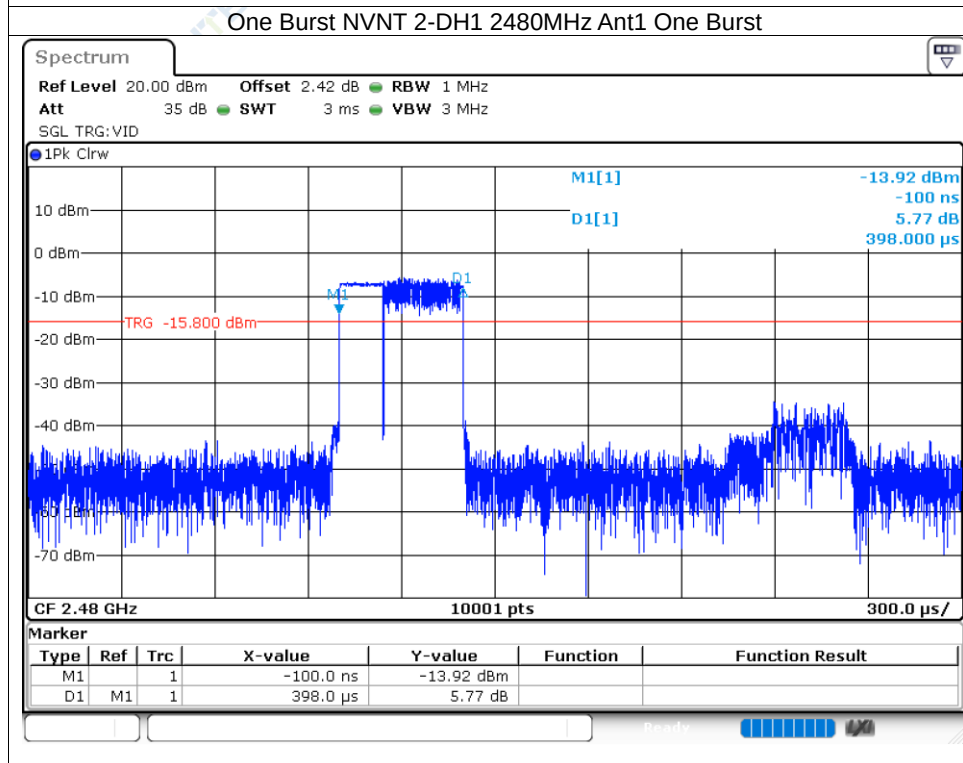
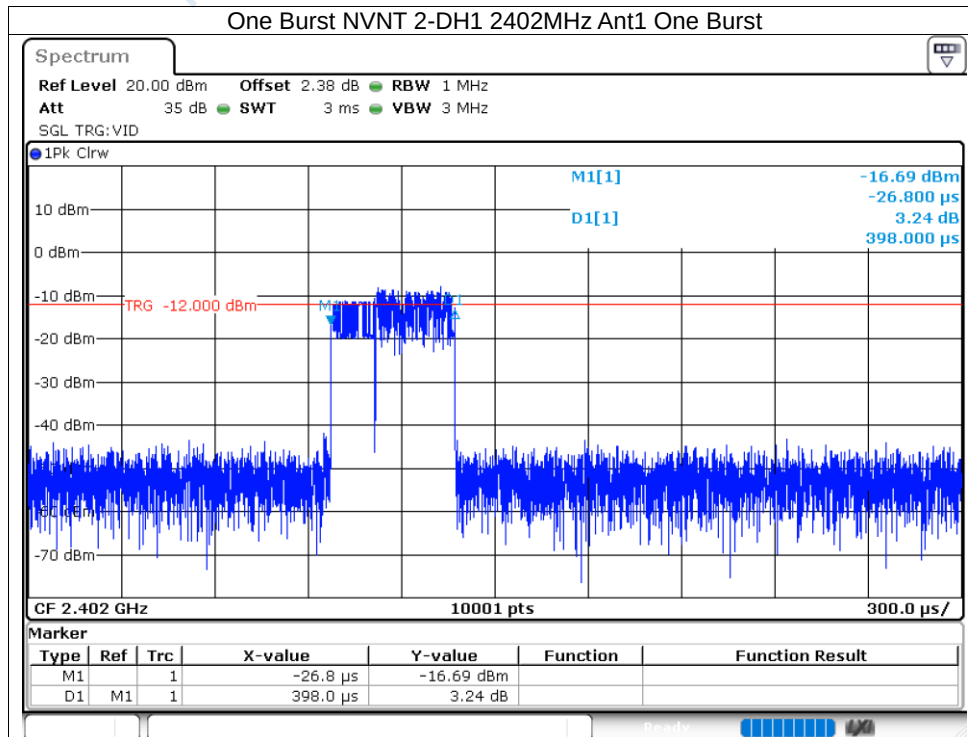
11.2.3 Dwell Time One Burst

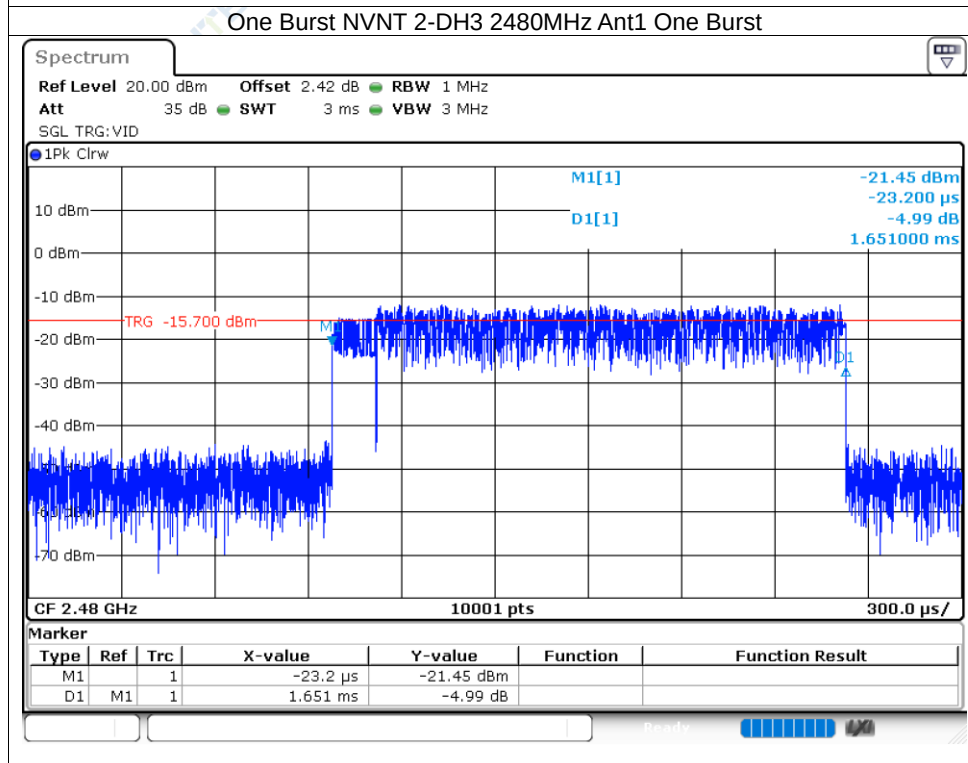
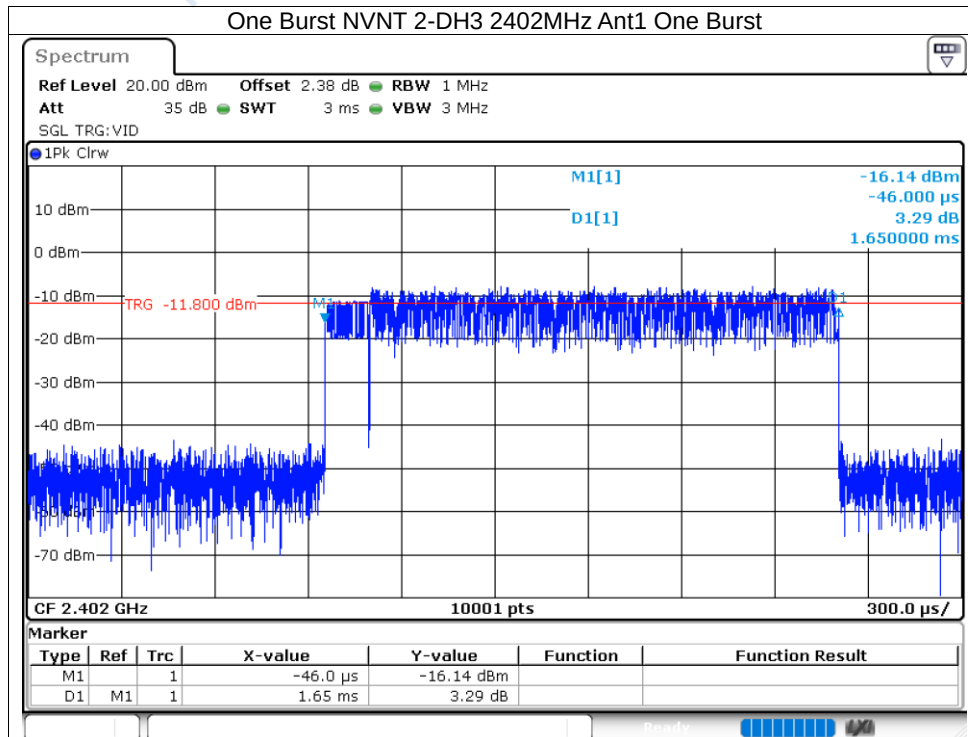
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)
NVNT	1-DH1	2402	Ant1	0.406
NVNT	1-DH1	2480	Ant1	0.406
NVNT	1-DH3	2402	Ant1	1.662
NVNT	1-DH3	2480	Ant1	1.662
NVNT	1-DH5	2402	Ant1	2.909
NVNT	1-DH5	2480	Ant1	2.909
NVNT	2-DH1	2402	Ant1	0.398
NVNT	2-DH1	2480	Ant1	0.398
NVNT	2-DH3	2402	Ant1	1.65
NVNT	2-DH3	2480	Ant1	1.651
NVNT	2-DH5	2402	Ant1	2.899
NVNT	2-DH5	2480	Ant1	2.898
NVNT	3-DH1	2402	Ant1	0.397
NVNT	3-DH1	2480	Ant1	0.397
NVNT	3-DH3	2402	Ant1	1.646
NVNT	3-DH3	2480	Ant1	1.647
NVNT	3-DH5	2402	Ant1	2.897
NVNT	3-DH5	2480	Ant1	2.897

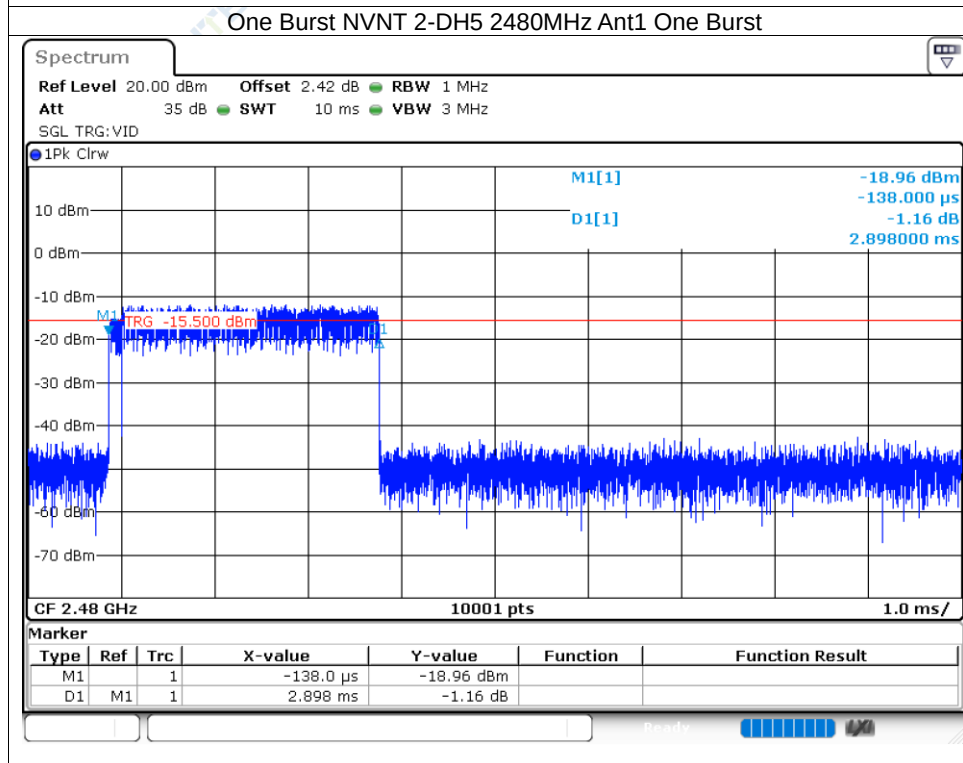
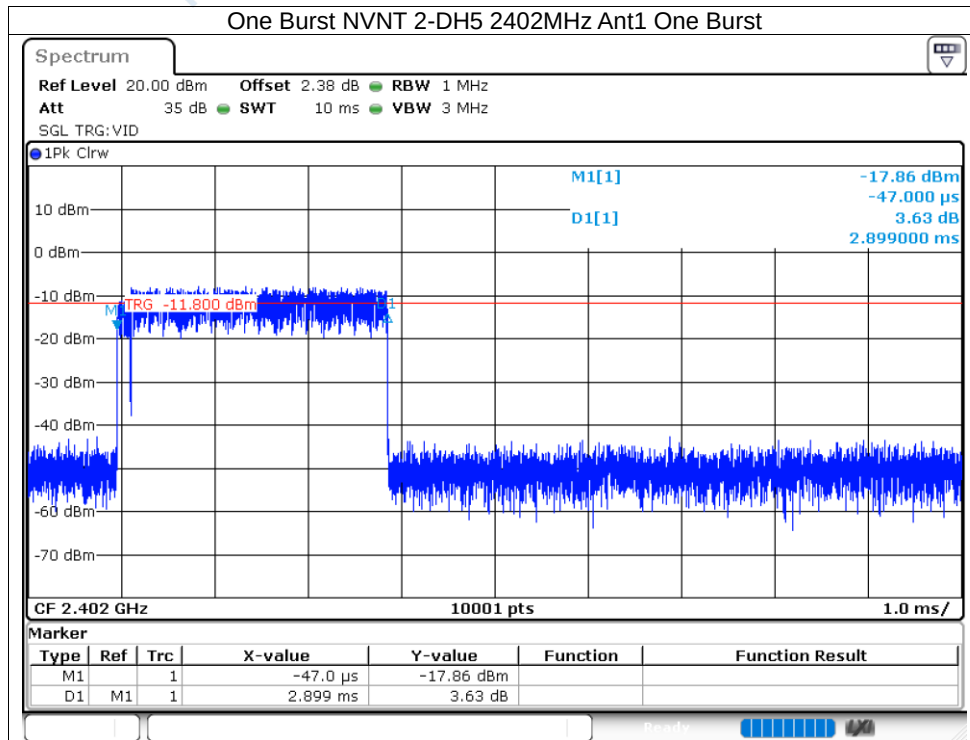


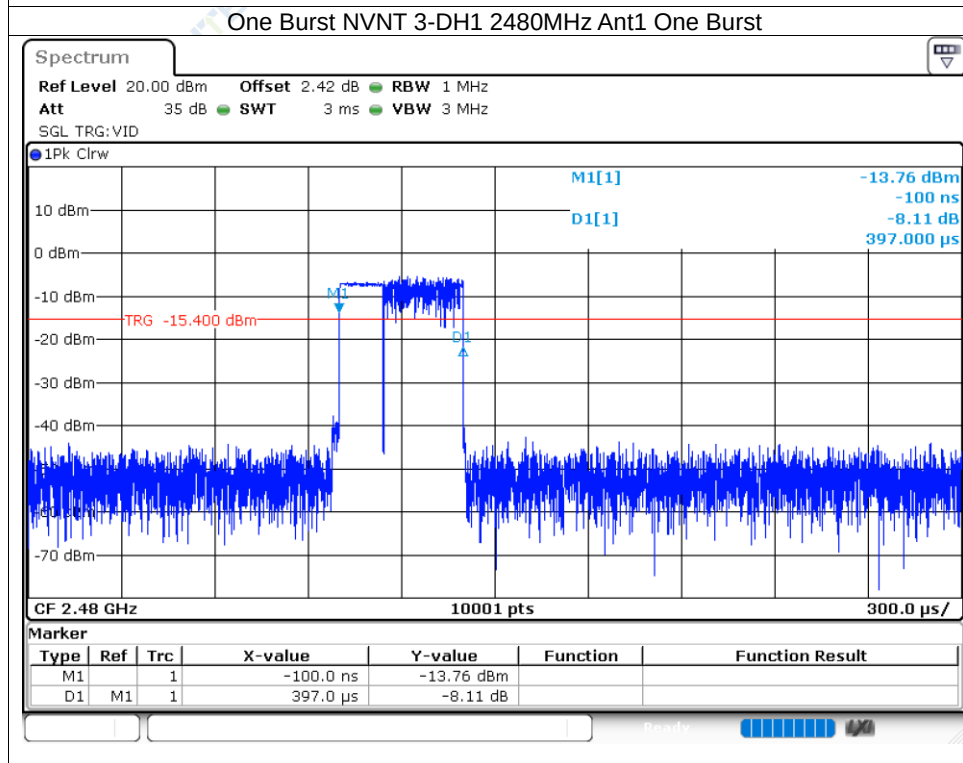
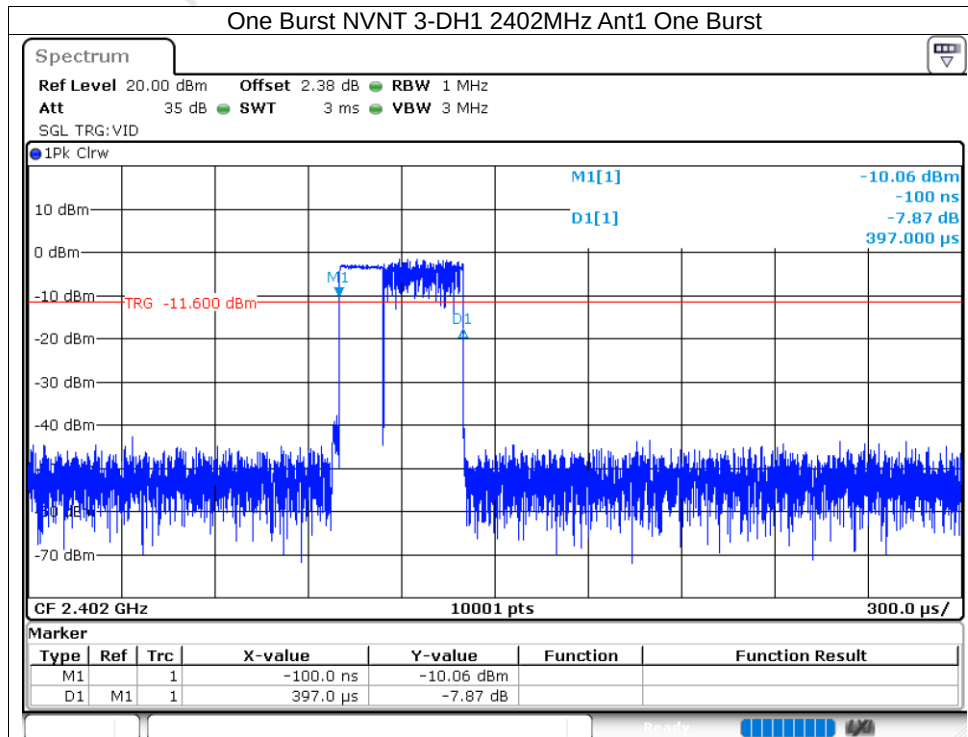


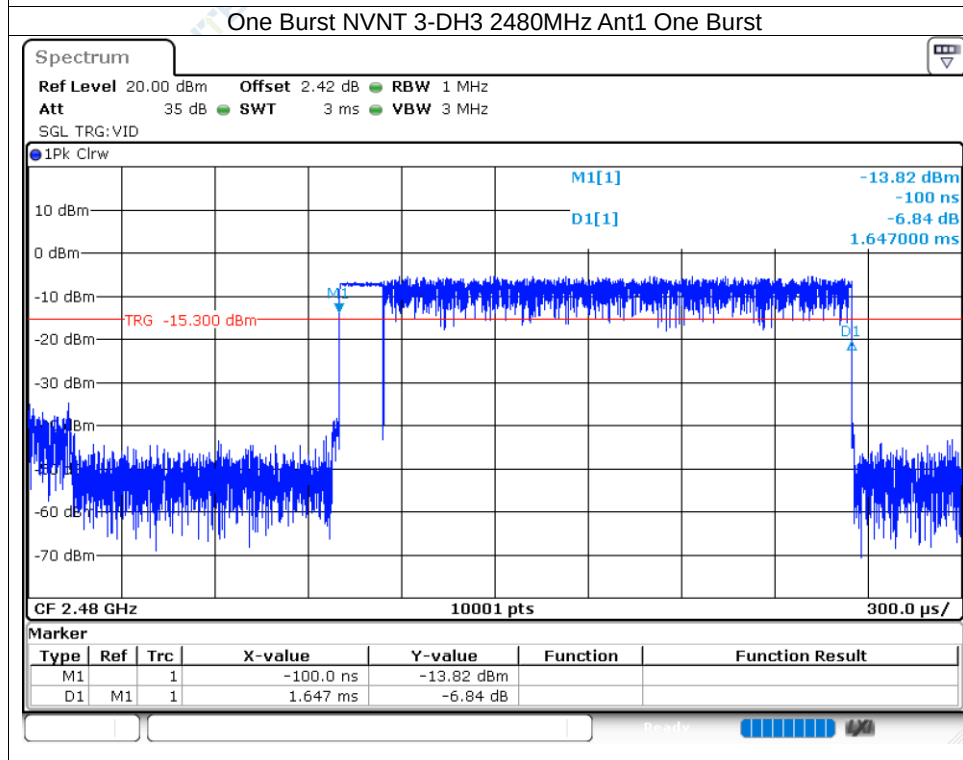
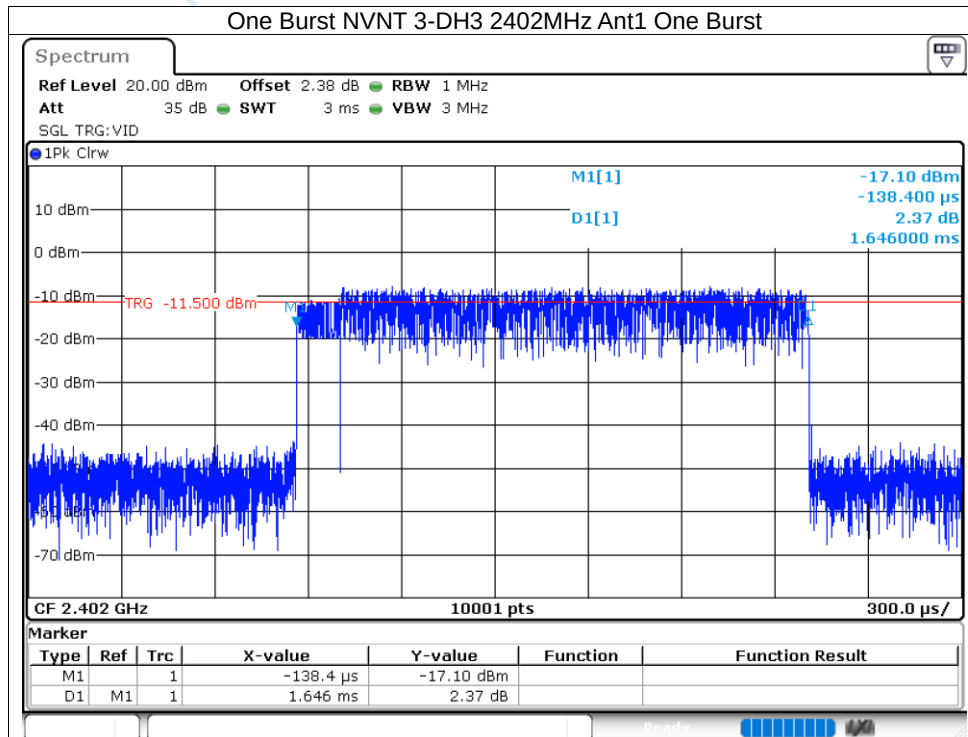


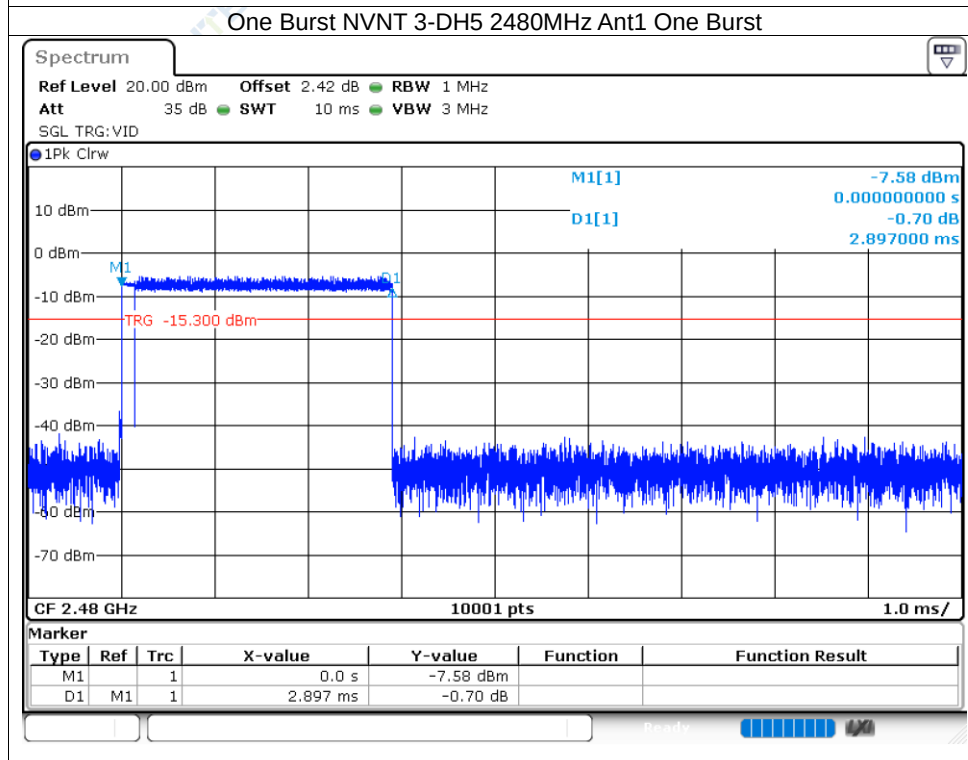
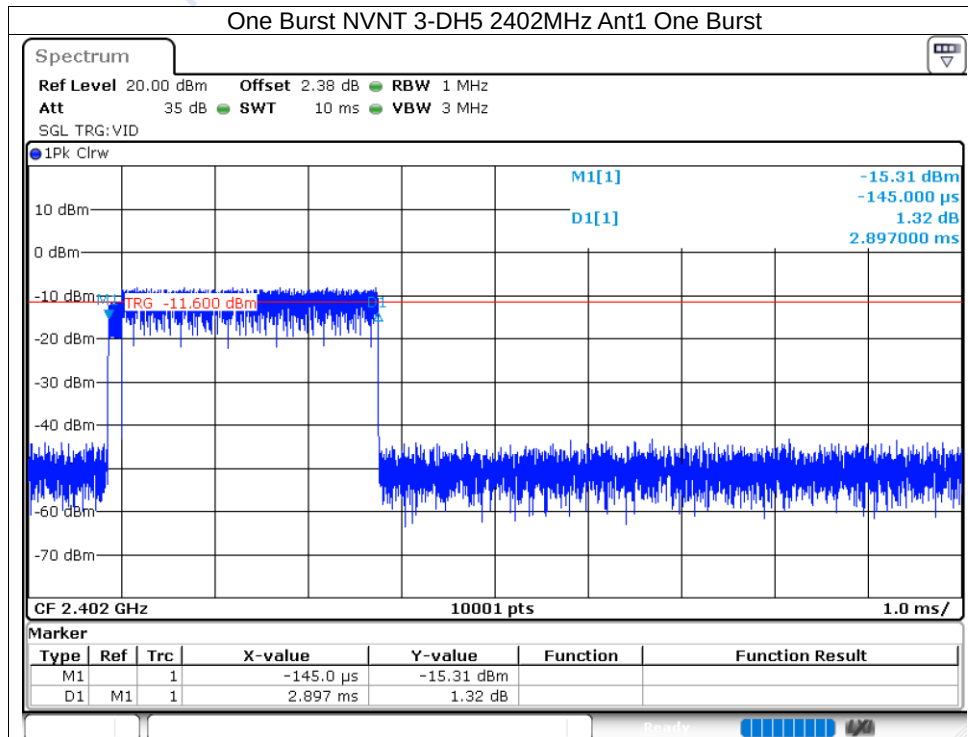






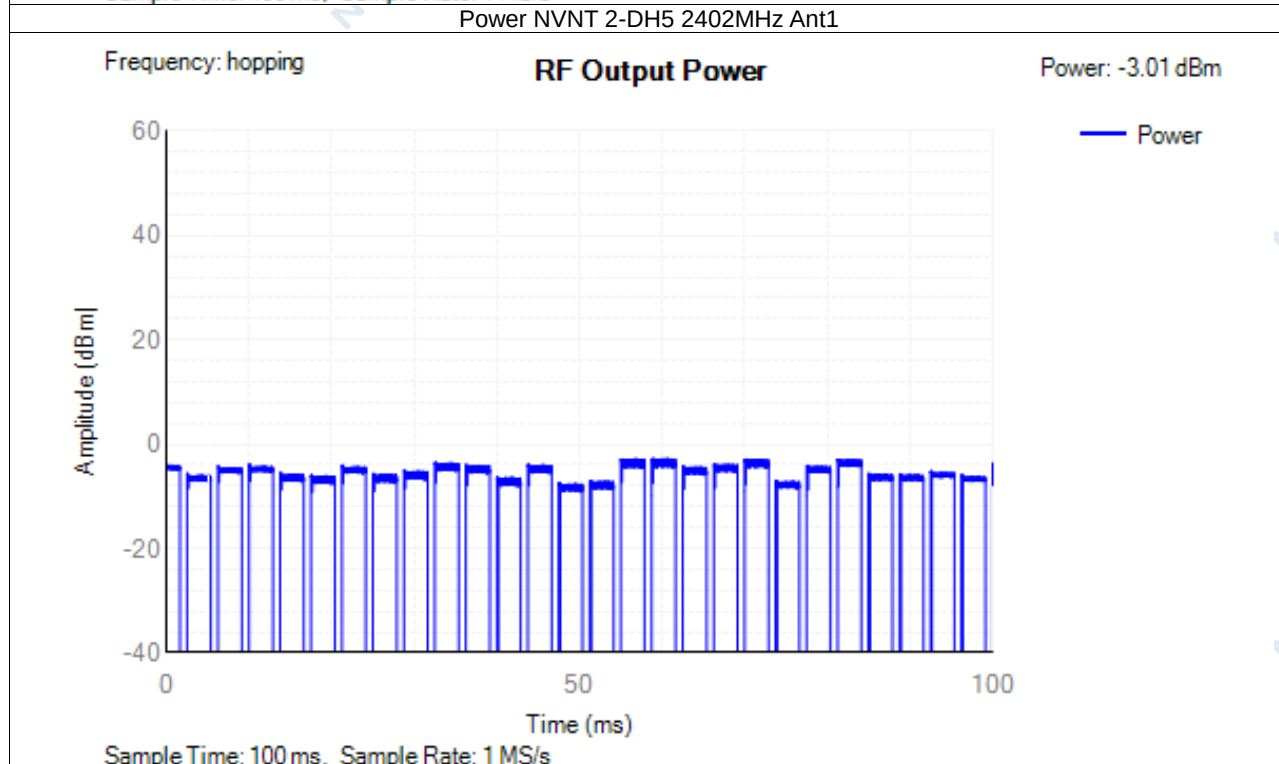
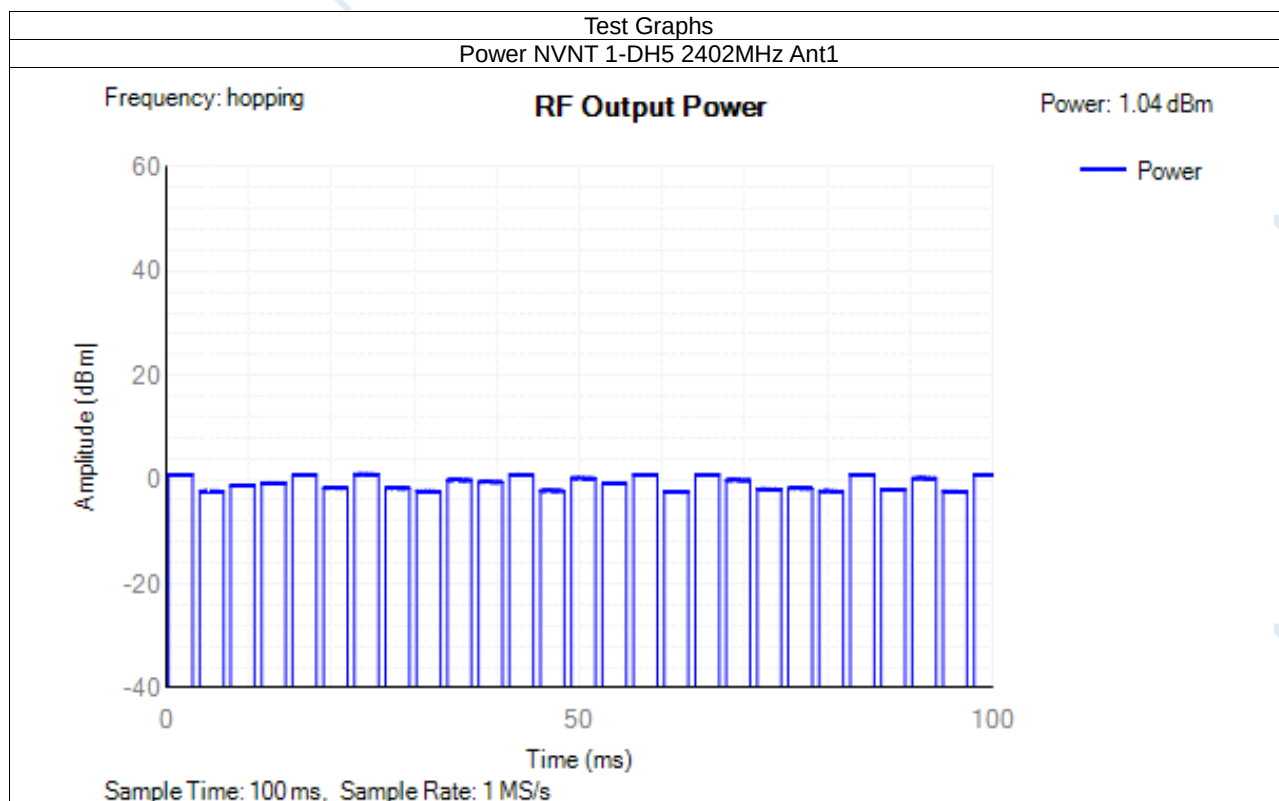


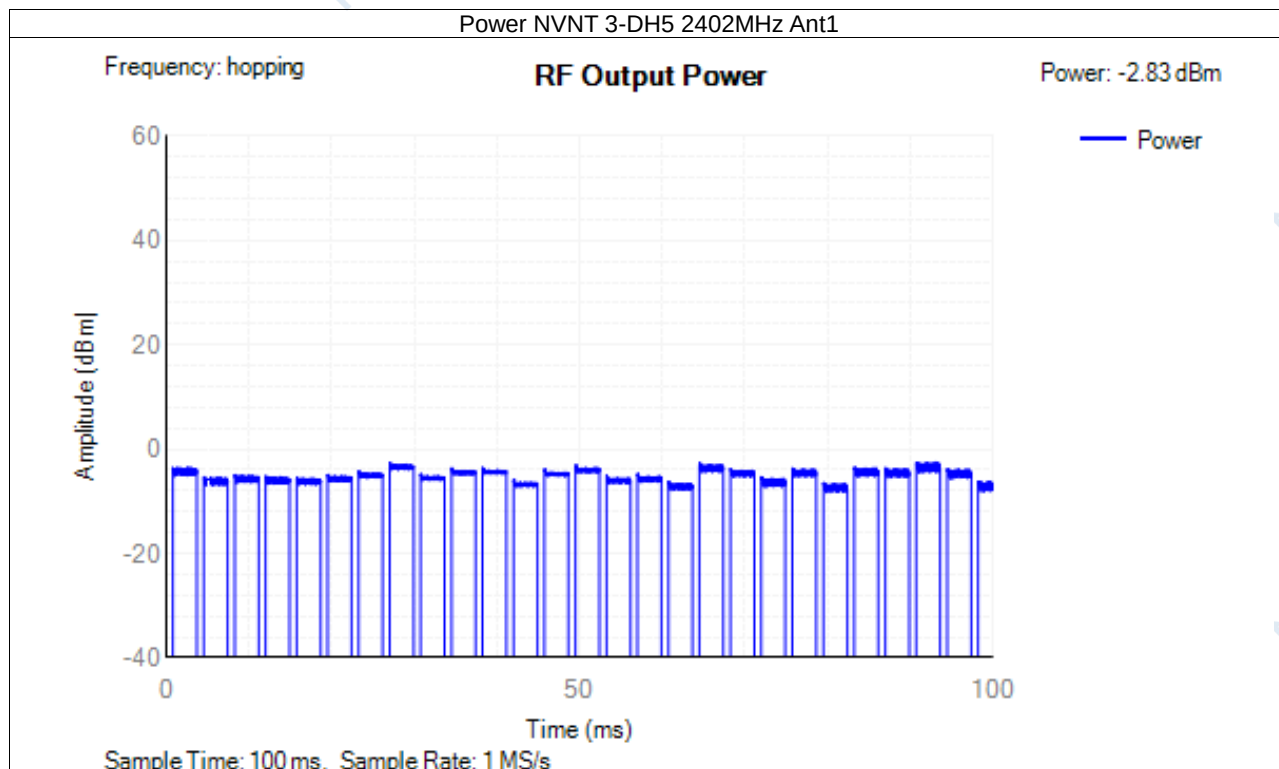




11.2.4 RF Output Power

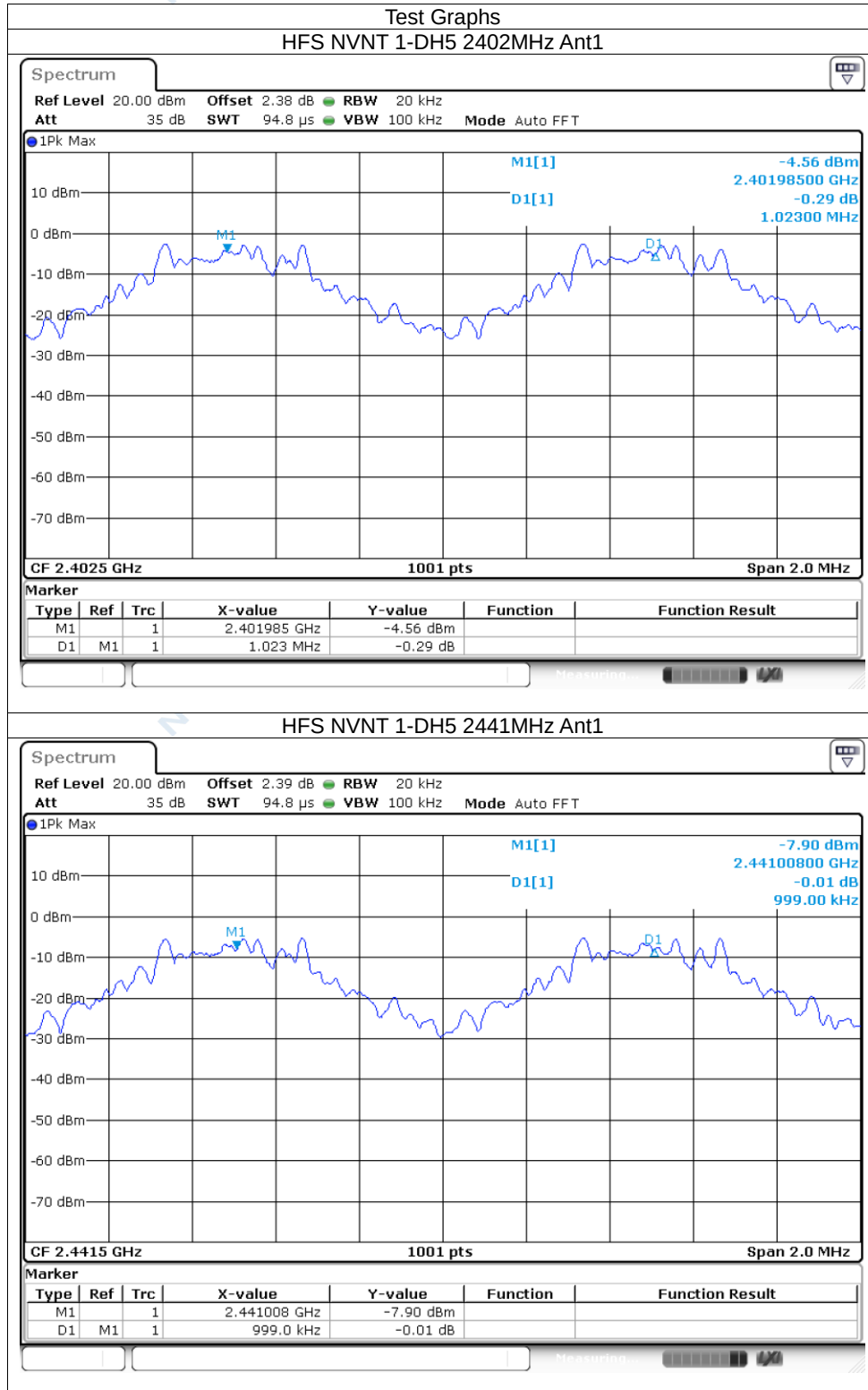
Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	hopping	Ant1	1.04	27	2.42	20	Pass
NVNT	2-DH5	hopping	Ant1	-3.01	54	-1.63	20	Pass
NVNT	3-DH5	hopping	Ant1	-2.83	54	-1.45	20	Pass
NVLT	1-DH5	hopping	Ant1	0.92	27	2.3	20	Pass
NVLT	2-DH5	hopping	Ant1	-3.03	54	-1.65	20	Pass
NVLT	3-DH5	hopping	Ant1	-2.91	54	-1.53	20	Pass
NVHT	1-DH5	hopping	Ant1	1.01	27	2.39	20	Pass
NVHT	2-DH5	hopping	Ant1	-3.08	54	-1.7	20	Pass
NVHT	3-DH5	hopping	Ant1	-2.97	54	-1.59	20	Pass

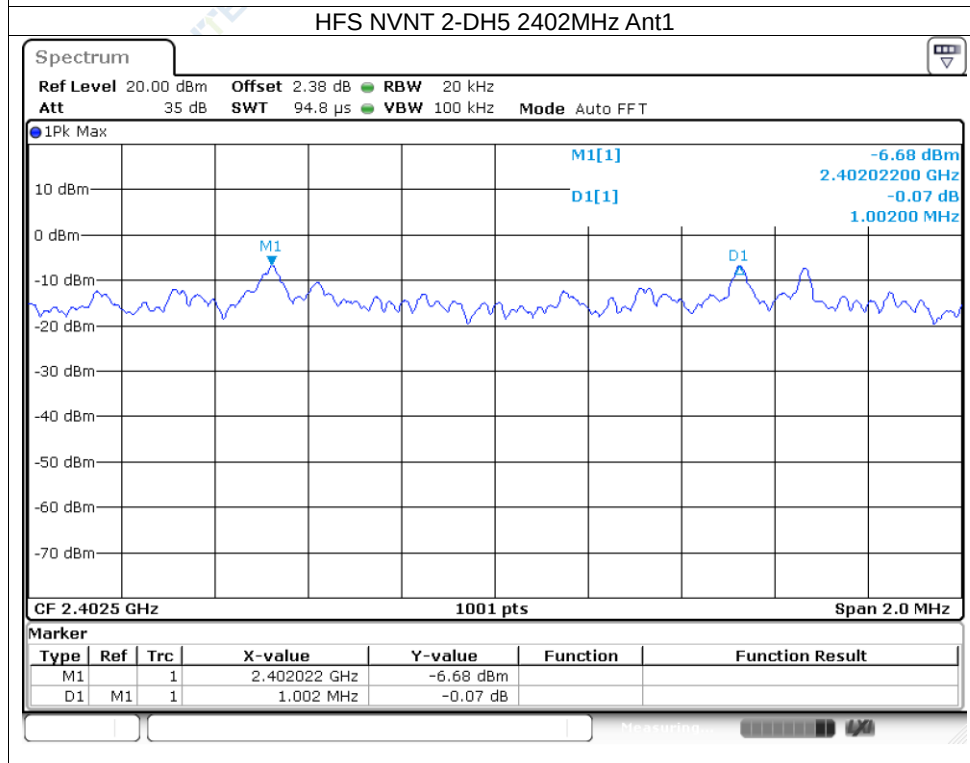
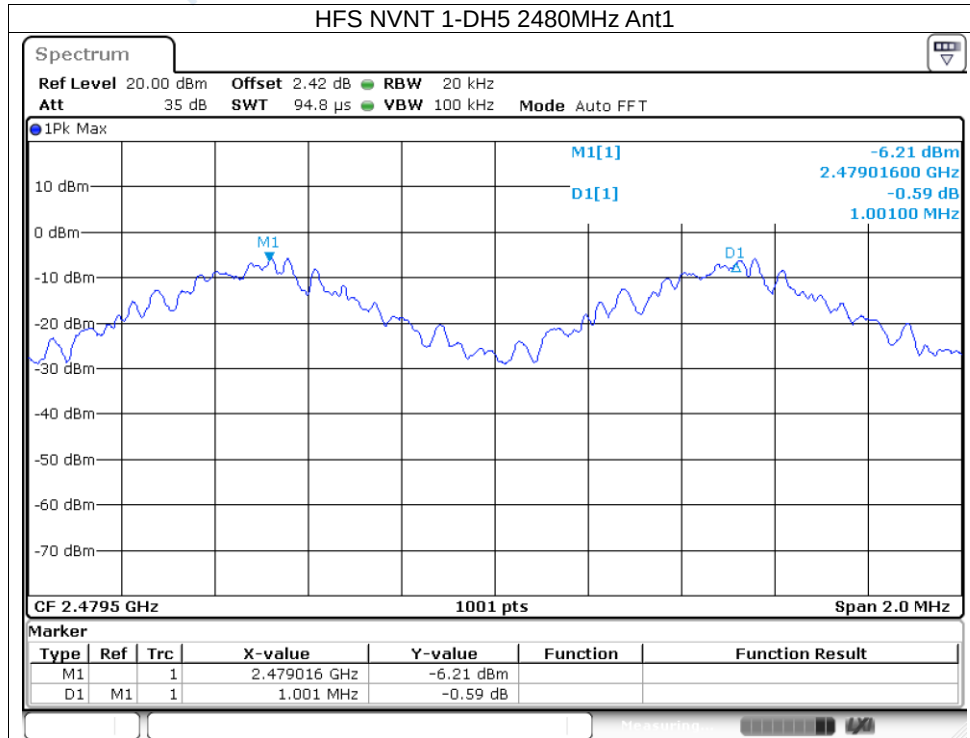


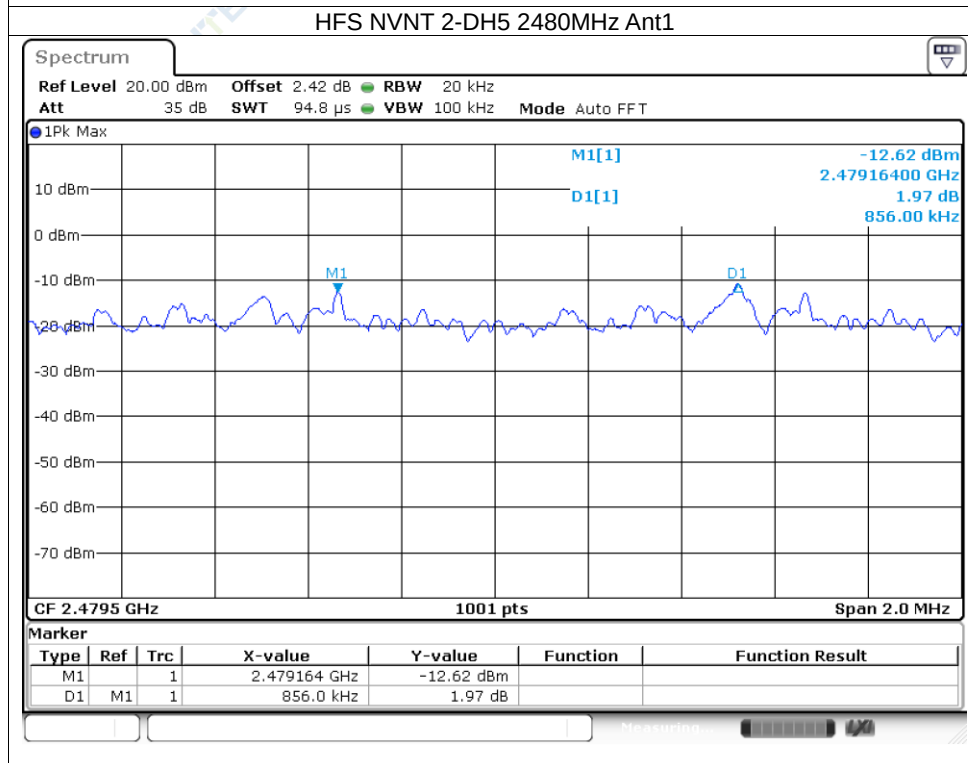
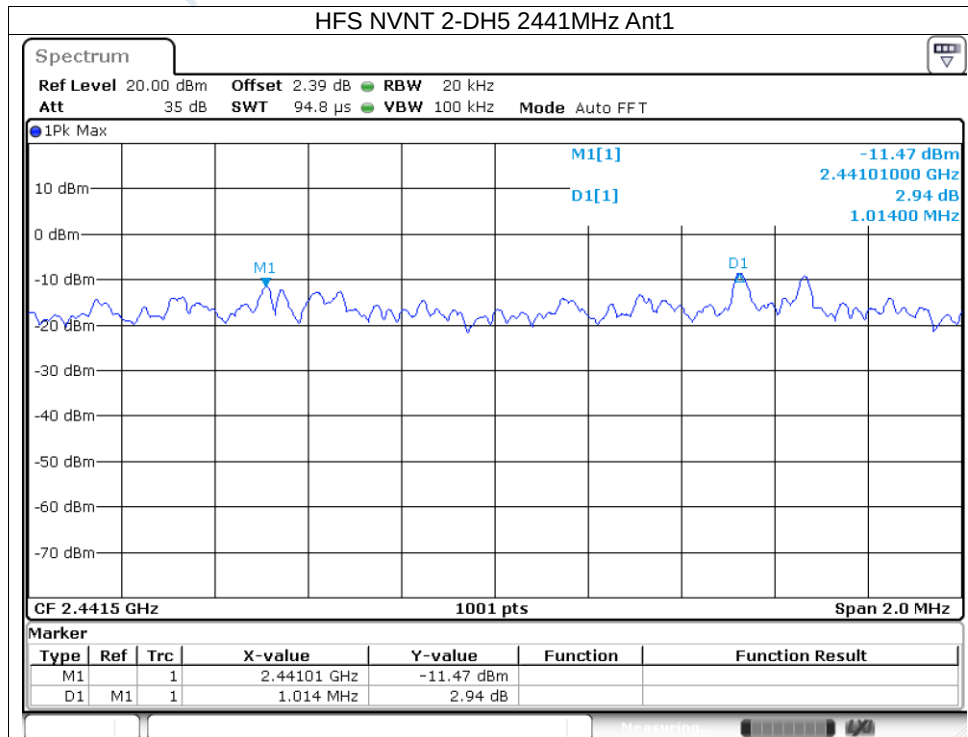


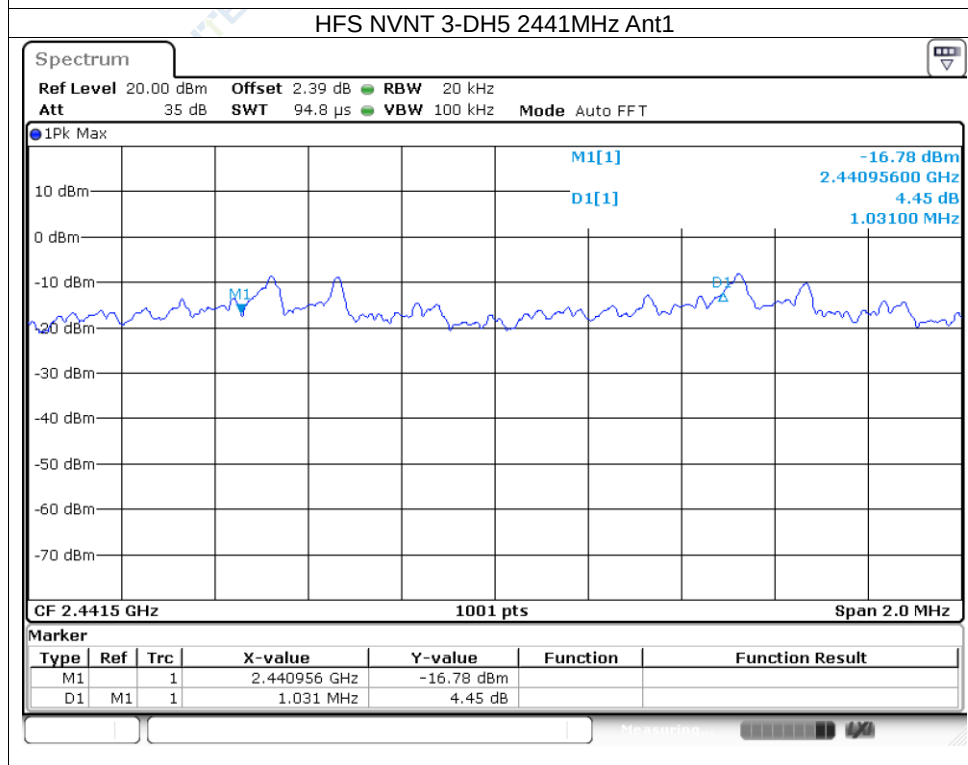
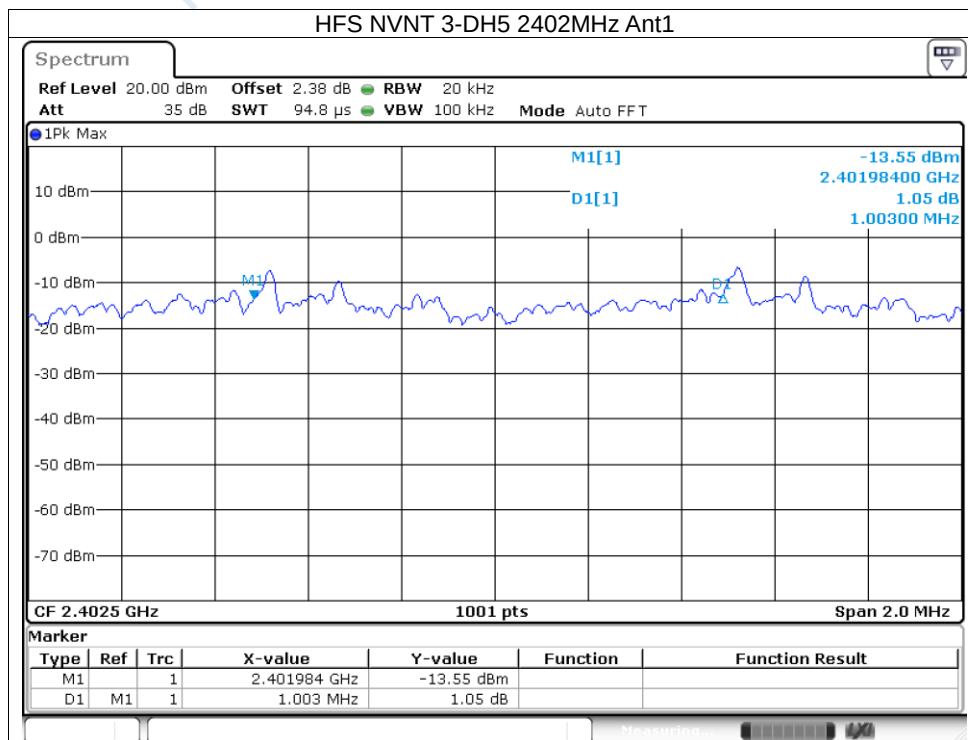
11.2.5 Hopping Frequency Separation

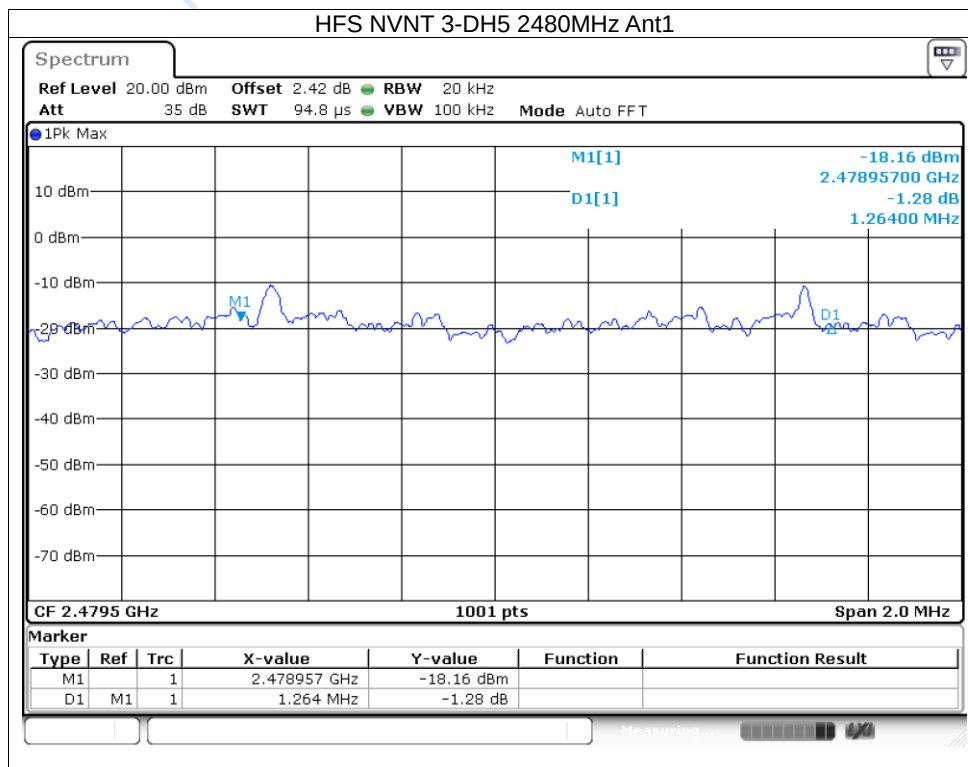
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.985	2403.008	1.023	0.1	Pass
NVNT	1-DH5	Ant1	2441.008	2442.007	0.999	0.1	Pass
NVNT	1-DH5	Ant1	2479.016	2480.017	1.001	0.1	Pass
NVNT	2-DH5	Ant1	2402.022	2403.024	1.002	0.1	Pass
NVNT	2-DH5	Ant1	2441.01	2442.024	1.014	0.1	Pass
NVNT	2-DH5	Ant1	2479.164	2480.02	0.856	0.1	Pass
NVNT	3-DH5	Ant1	2401.984	2402.987	1.003	0.1	Pass
NVNT	3-DH5	Ant1	2440.956	2441.987	1.031	0.1	Pass
NVNT	3-DH5	Ant1	2478.957	2480.221	1.264	0.1	Pass





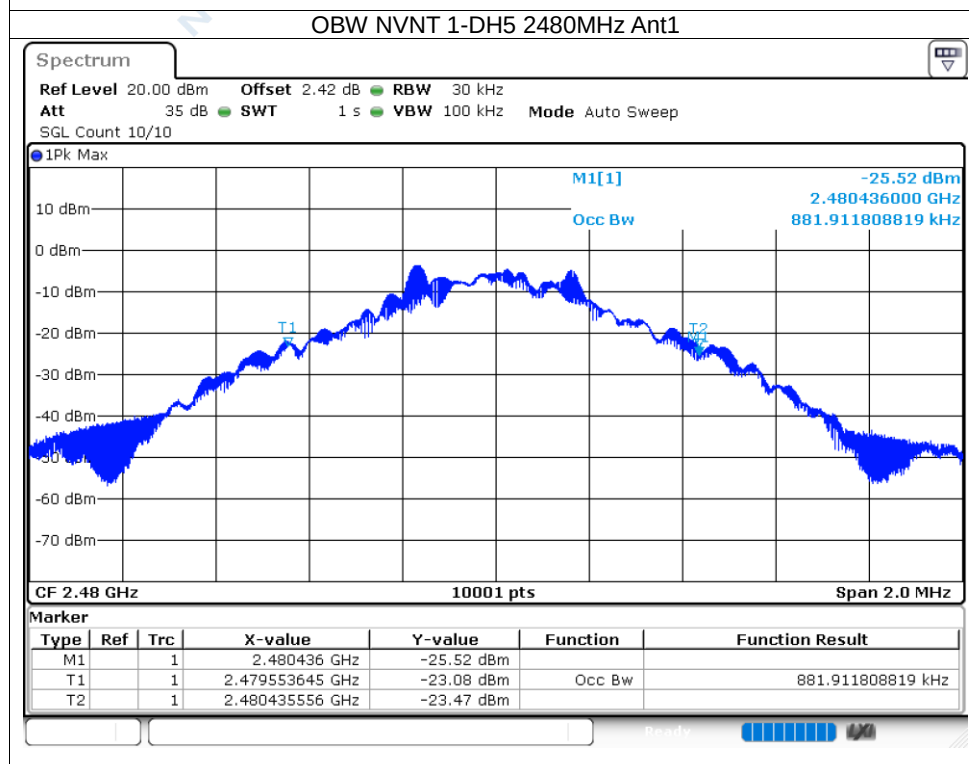
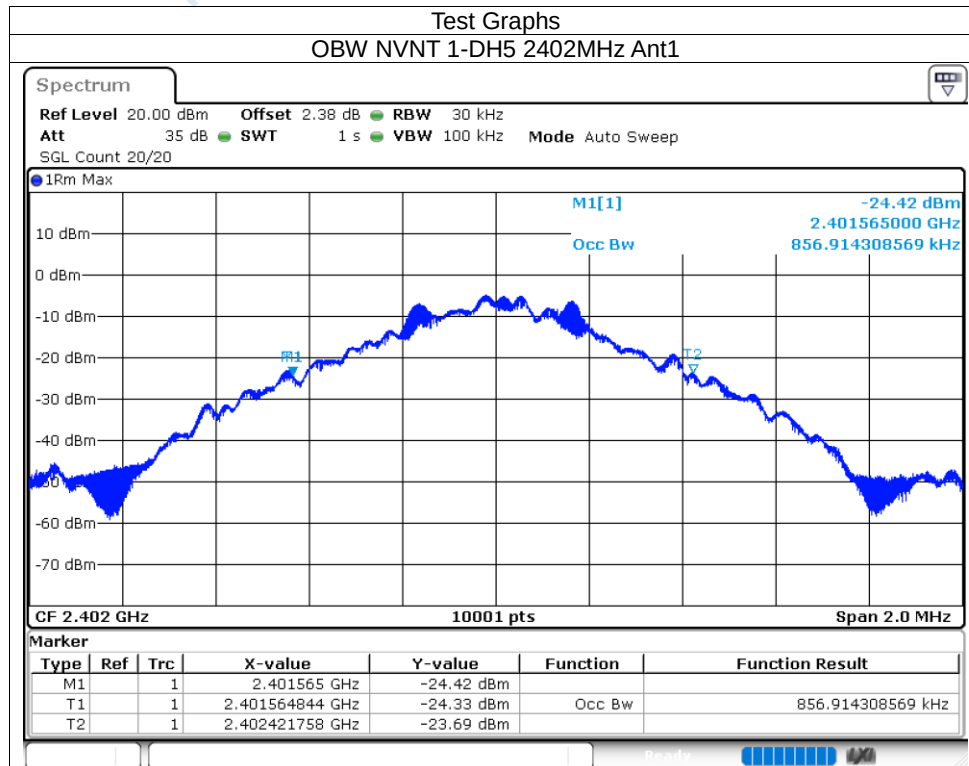


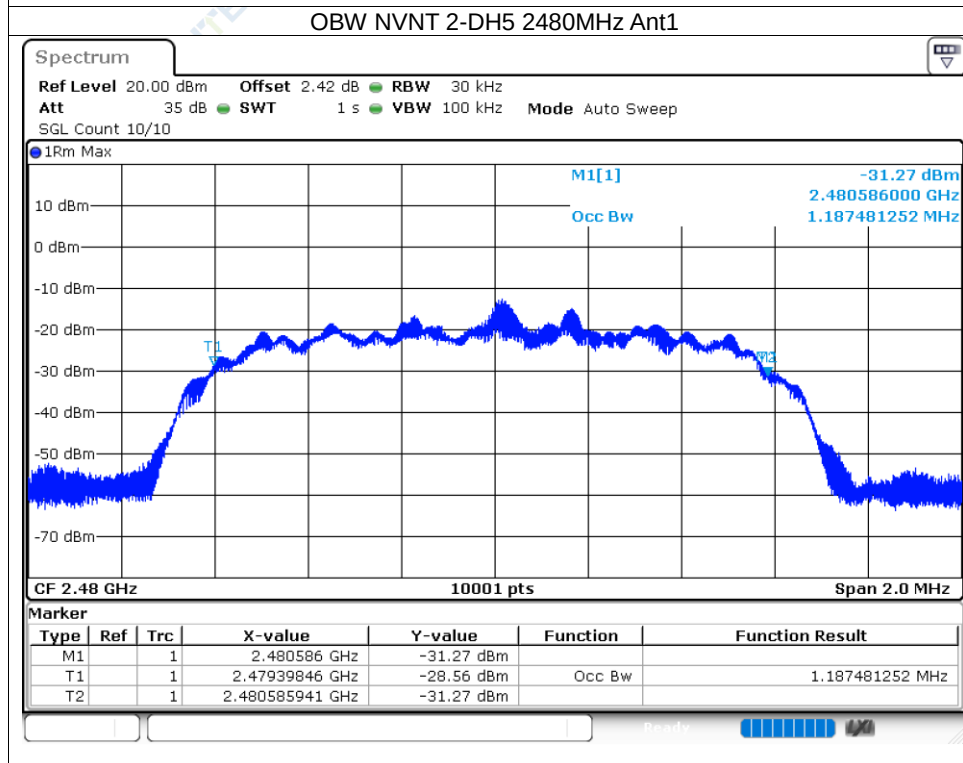
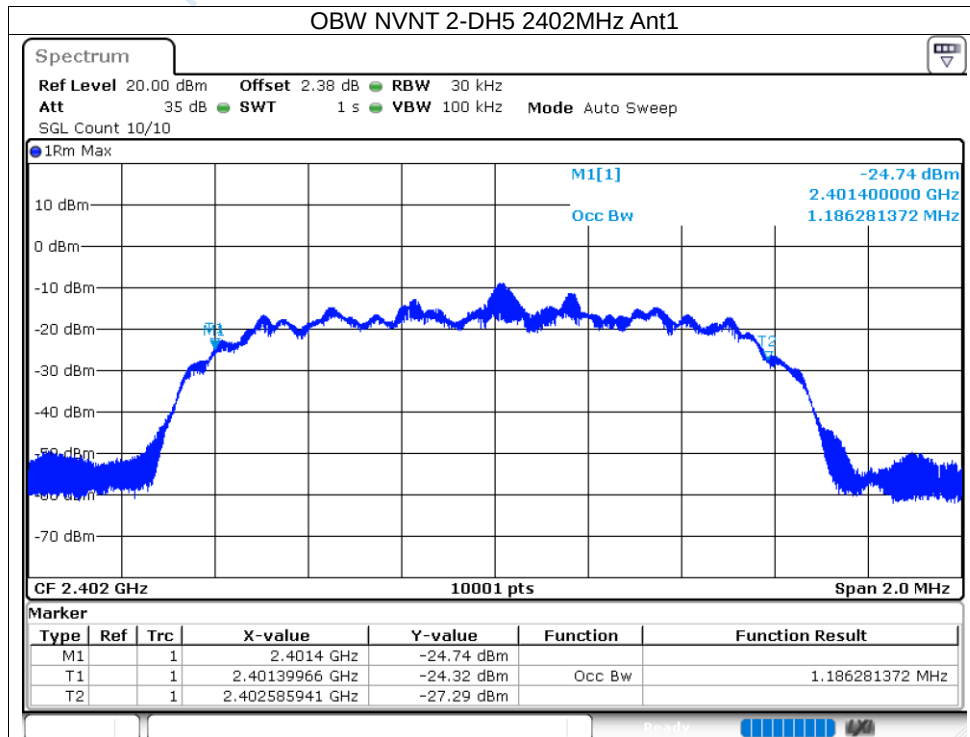




11.2.6 Occupied Channel Bandwidth

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	2401.993	0.857	2401.565	2402.422	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	Ant1	2479.995	0.882	2479.554	2480.436	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	Ant1	2401.993	1.186	2401.4	2402.586	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	Ant1	2479.992	1.187	2479.398	2480.586	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	Ant1	2401.992	1.19	2401.397	2402.587	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	Ant1	2479.991	1.194	2479.394	2480.588	2400 - 2483.5MHz	Pass



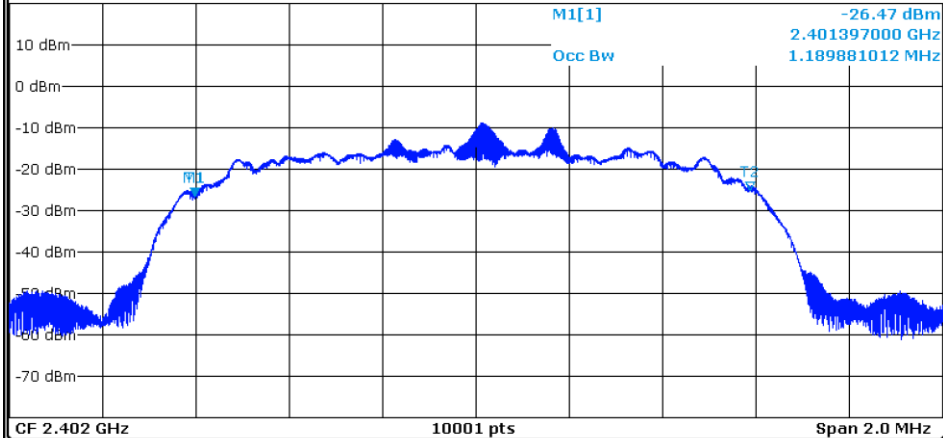


OBW NVNT 3-DH5 2402MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 30 kHz
Att 35 dB SWT 1 s VBW 100 kHz Mode Auto Sweep
SGL Count 30/30

1Rm Max



Marker

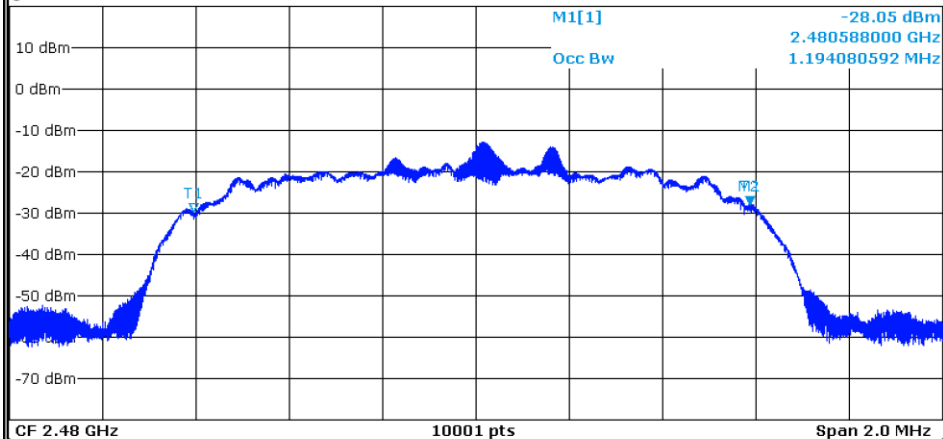
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401397 GHz	-26.47 dBm		
T1		1	2.40139706 GHz	-26.47 dBm	Occ Bw	1.189881012 MHz
T2		1	2.402586941 GHz	-25.16 dBm		

OBW NVNT 3-DH5 2480MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 30 kHz
Att 35 dB SWT 1 s VBW 100 kHz Mode Auto Sweep
SGL Count 30/30

1Rm Max



Marker

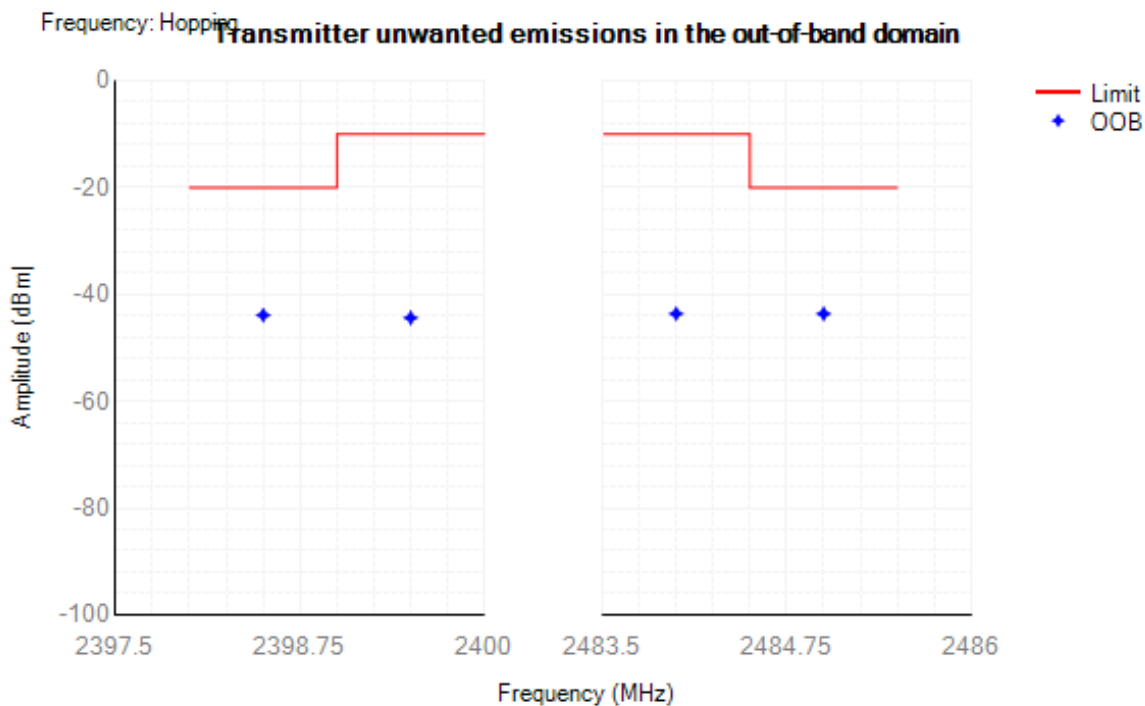
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.480588 GHz	-28.05 dBm		
T1		1	2.479393861 GHz	-29.71 dBm	Occ Bw	1.194080592 MHz
T2		1	2.480587941 GHz	-28.05 dBm		

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

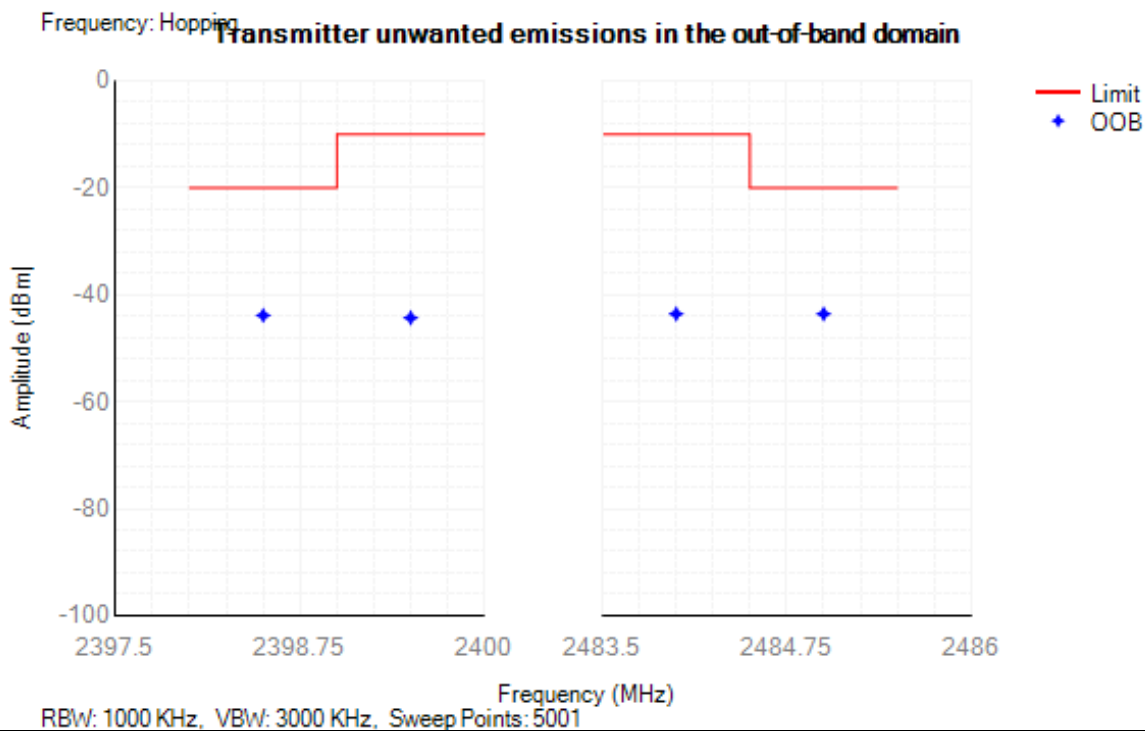
Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	Hopping	Ant1	2399.5	-44.39	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-43.89	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-43.63	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-43.64	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2399.5	-44.31	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-43.85	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-43.58	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-43.58	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-44.29	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-43.81	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-43.56	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-43.57	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-44.23	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-43.78	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-43.5	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-43.53	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-44.35	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-43.86	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-43.62	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-43.63	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-44.32	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-43.85	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-43.56	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-43.57	-20	Pass

Test Graphs

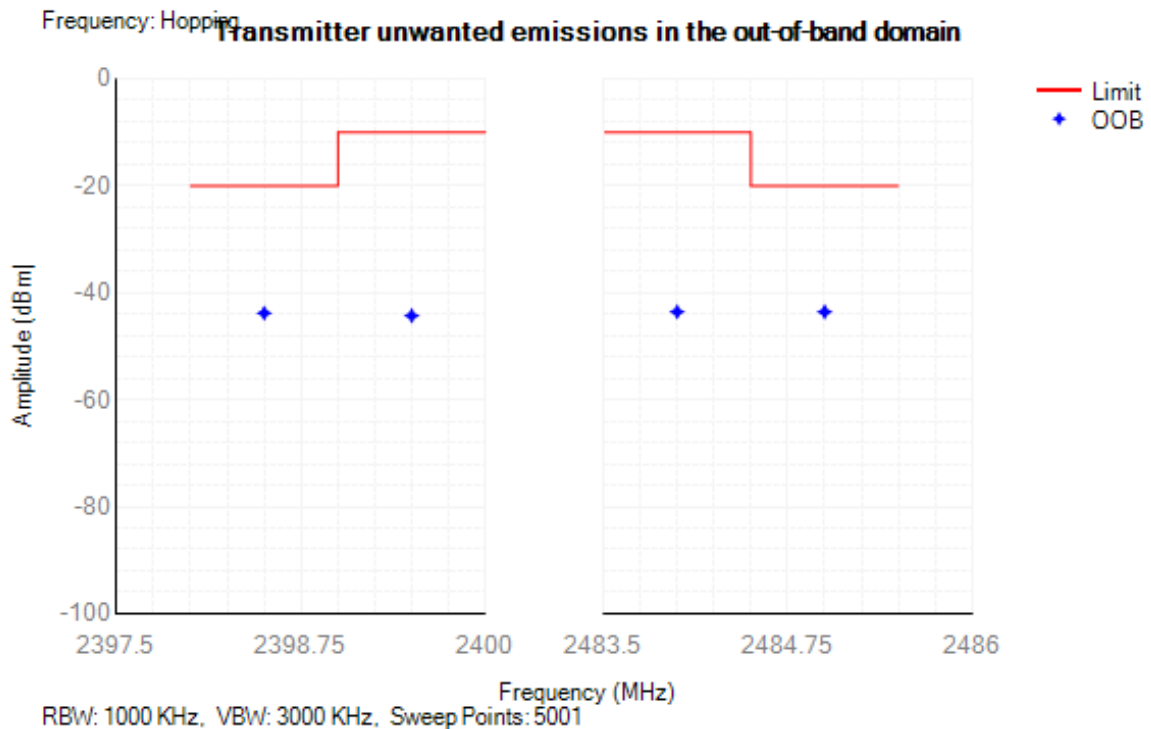
Tx. Emissions OOB NVNT 1-DH5 2402MHz Ant1



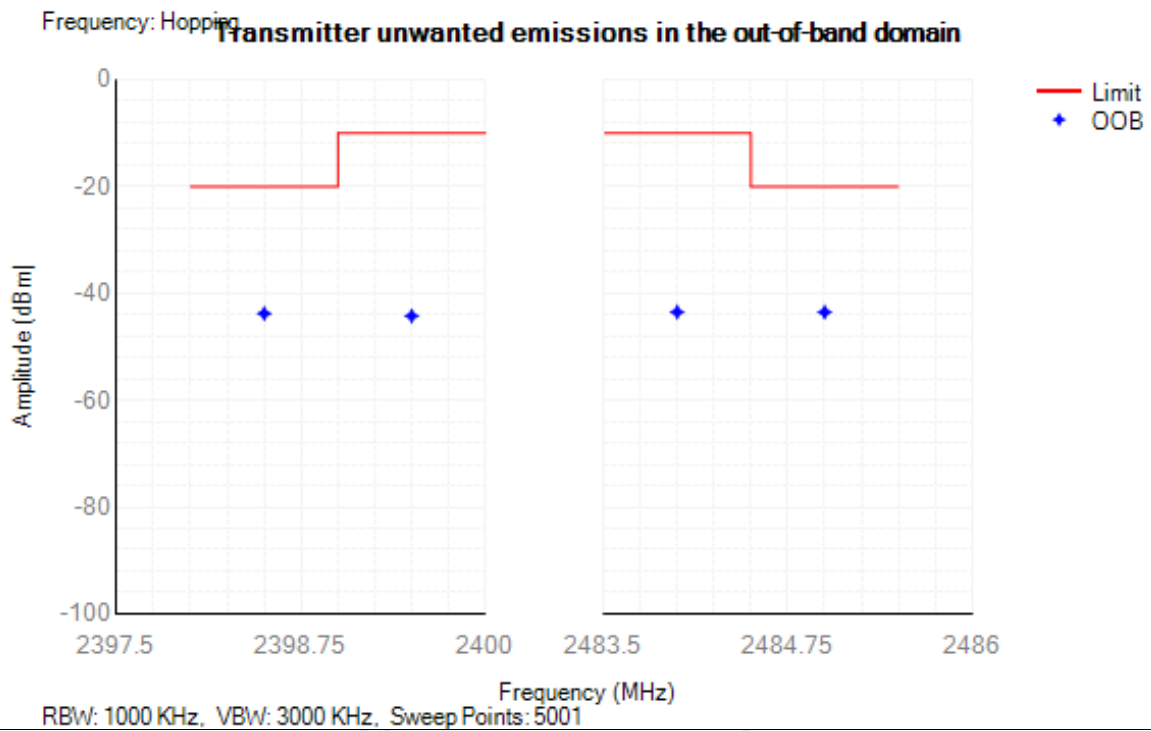
Tx. Emissions OOB NVNT 1-DH5 2480MHz Ant1



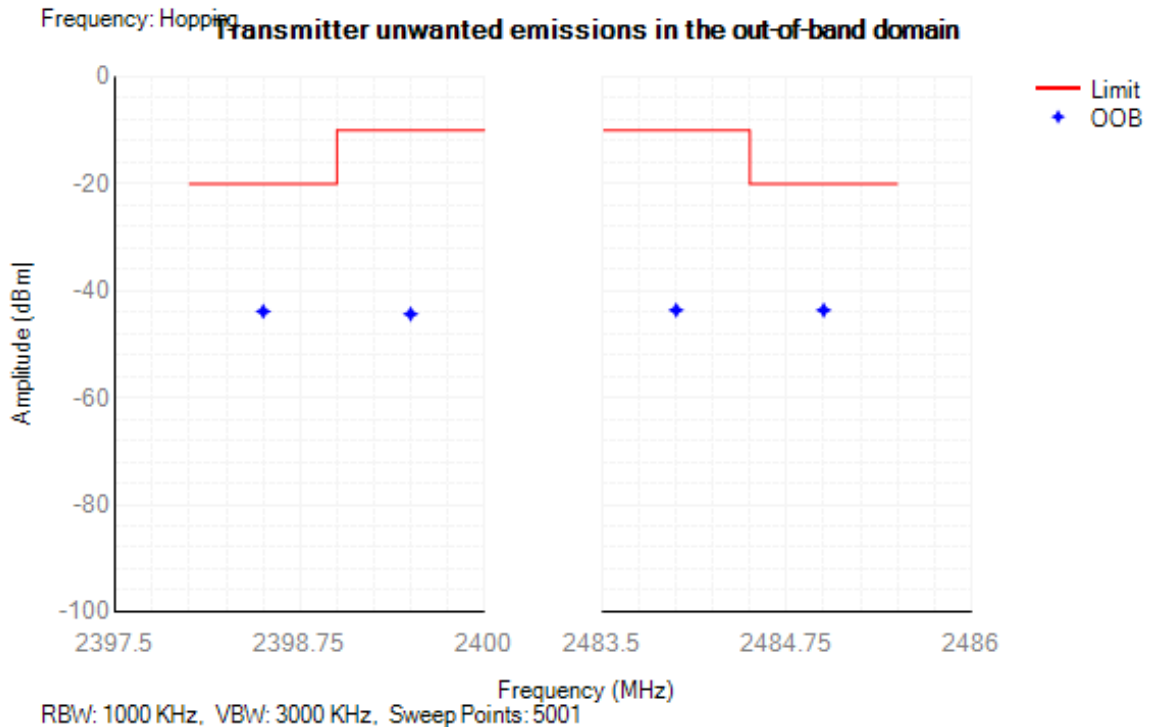
Tx. Emissions OOB NVNT 2-DH5 2402MHz Ant1



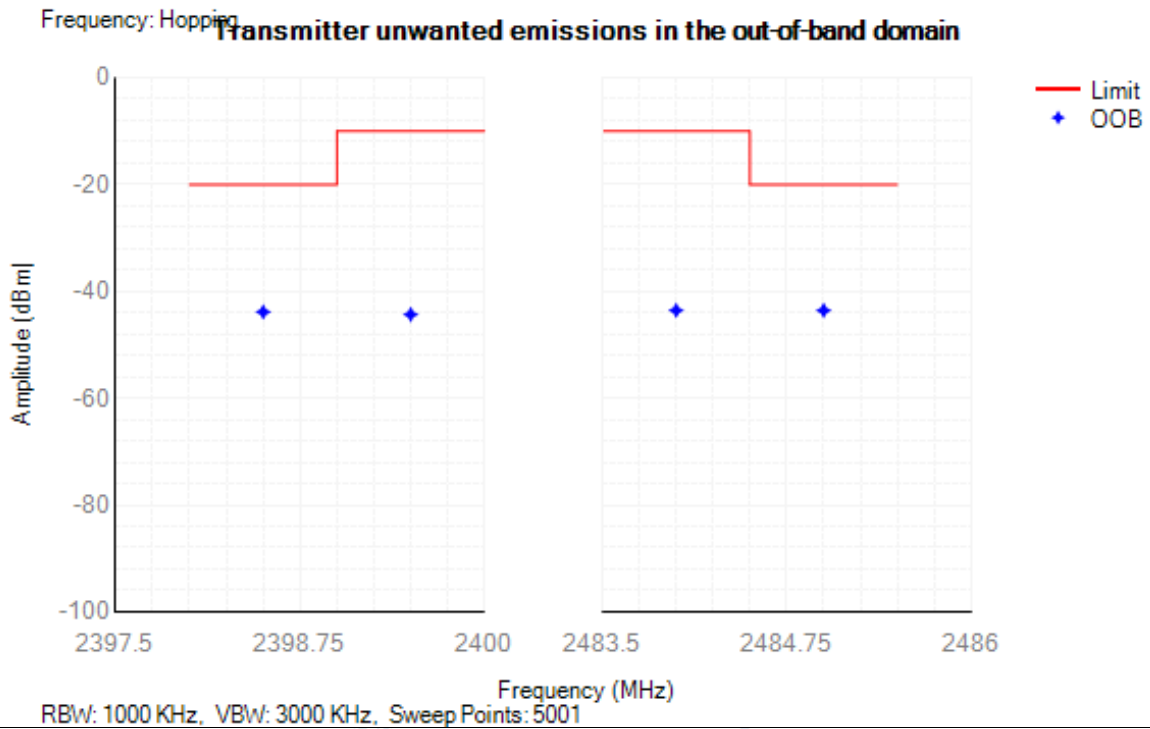
Tx. Emissions OOB NVNT 2-DH5 2480MHz Ant1



Tx. Emissions OOB NVNT 3-DH5 2402MHz Ant1



Tx. Emissions OOB NVNT 3-DH5 2480MHz Ant1



11.2.8 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	37.40	-81.22	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	47 -74	61.05	-79.24	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	74 -87.5	80.40	-80.82	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	87.5 -118	93.40	-78.72	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	118 -174	129.95	-80.00	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	174 -230	179.20	-79.44	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	230 -470	447.25	-78.69	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	470 -694	514.70	-78.10	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	694 -1000	948.20	-52.81	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	1000 -2398	2142.00	-48.68	NA	-30	Pass
NVNT	1-DH5	2402	Ant1	2485.5 -12750	6956.00	-50.49	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	30 -47	31.90	-80.96	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	47 -74	53.40	-80.32	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	74 -87.5	83.75	-81.05	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	87.5 -118	92.05	-80.87	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	118 -174	165.95	-80.03	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	174 -230	193.50	-77.83	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	230 -470	402.55	-78.72	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	470 -694	608.00	-78.54	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	694 -1000	948.20	-53.41	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	1000 -2398	2137.50	-48.55	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	2485.5 -12750	6938.50	-50.89	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	30 -47	33.00	-80.62	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	47 -74	58.90	-80.59	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	74 -87.5	74.35	-81.02	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	87.5 -118	113.70	-79.99	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	118 -174	169.00	-79.90	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	174 -230	192.75	-79.07	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	230 -470	336.35	-78.92	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	470 -694	523.60	-78.77	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	694 -1000	948.20	-58.78	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	1000 -2398	2136.50	-47.99	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	2485.5 -12750	6981.50	-50.62	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	30 -47	43.05	-80.85	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	47 -74	49.65	-80.78	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	74 -87.5	79.30	-80.95	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	87.5 -118	94.25	-80.56	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	118 -174	119.70	-79.43	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	174 -230	194.75	-78.14	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	230 -470	393.85	-78.68	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	470 -694	480.50	-78.82	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	694 -1000	948.25	-53.59	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	1000 -2398	2145.00	-47.73	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	2485.5 -12750	5802.50	-48.24	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	30 -47	34.05	-80.05	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	47 -74	62.15	-80.90	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	74 -87.5	82.75	-80.65	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	87.5 -118	89.50	-80.32	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	118 -174	165.75	-80.23	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	174 -230	206.40	-79.00	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	230 -470	333.45	-78.73	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	470 -694	583.25	-78.35	NA	-54	Pass

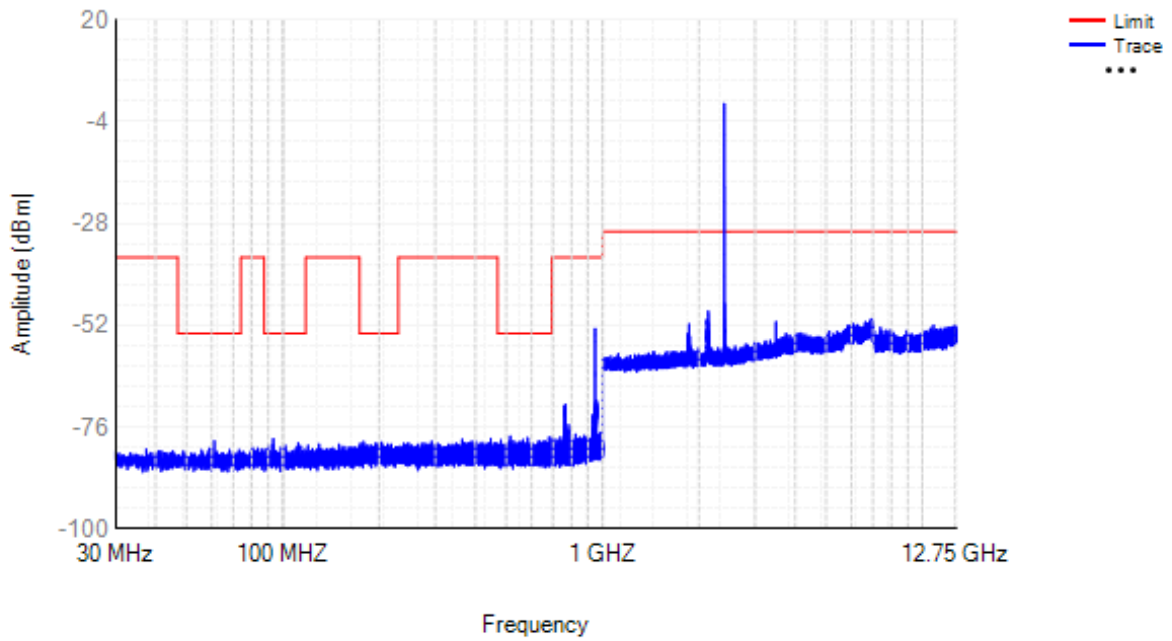
NVNT	2-DH5	2441	Ant1	694 -1000	948.15	-55.68	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	1000 -2398	2145.00	-48.53	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	2485.5 -12750	3472.00	-49.36	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	30 -47	37.90	-80.97	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	47 -74	48.45	-81.30	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	74 -87.5	80.35	-81.04	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	87.5 -118	87.55	-79.74	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	118 -174	162.25	-79.18	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	174 -230	202.40	-79.51	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	230 -470	396.95	-78.30	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	470 -694	596.75	-78.56	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	694 -1000	948.20	-58.29	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	1000 -2398	2137.00	-48.05	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	2485.5 -12750	5812.50	-48.34	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	30 -47	37.65	-81.26	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	47 -74	71.25	-80.89	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	74 -87.5	75.05	-80.98	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	87.5 -118	115.15	-81.06	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	118 -174	158.60	-79.62	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	174 -230	192.60	-79.16	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	230 -470	417.20	-78.79	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	470 -694	604.40	-78.53	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	694 -1000	948.30	-53.57	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	1000 -2398	2123.50	-51.03	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	2485.5 -12750	6890.00	-51.03	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	30 -47	35.00	-81.12	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	47 -74	71.80	-80.60	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	74 -87.5	78.00	-81.23	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	87.5 -118	92.70	-80.89	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	118 -174	146.75	-79.53	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	174 -230	197.50	-78.93	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	230 -470	260.15	-79.22	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	470 -694	511.95	-78.27	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	694 -1000	948.30	-52.43	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	1000 -2398	2118.50	-51.74	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	2485.5 -12750	6965.50	-50.64	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	30 -47	35.30	-80.22	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	47 -74	61.15	-80.24	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	74 -87.5	75.50	-80.88	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	87.5 -118	88.75	-80.51	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	118 -174	155.40	-78.87	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	174 -230	188.75	-79.09	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	230 -470	341.30	-78.20	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	470 -694	624.20	-78.83	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	694 -1000	948.25	-52.81	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	1000 -2398	2119.50	-51.61	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	2485.5 -12750	6994.50	-50.18	NA	-30	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1

Frequency: 2402 MHz

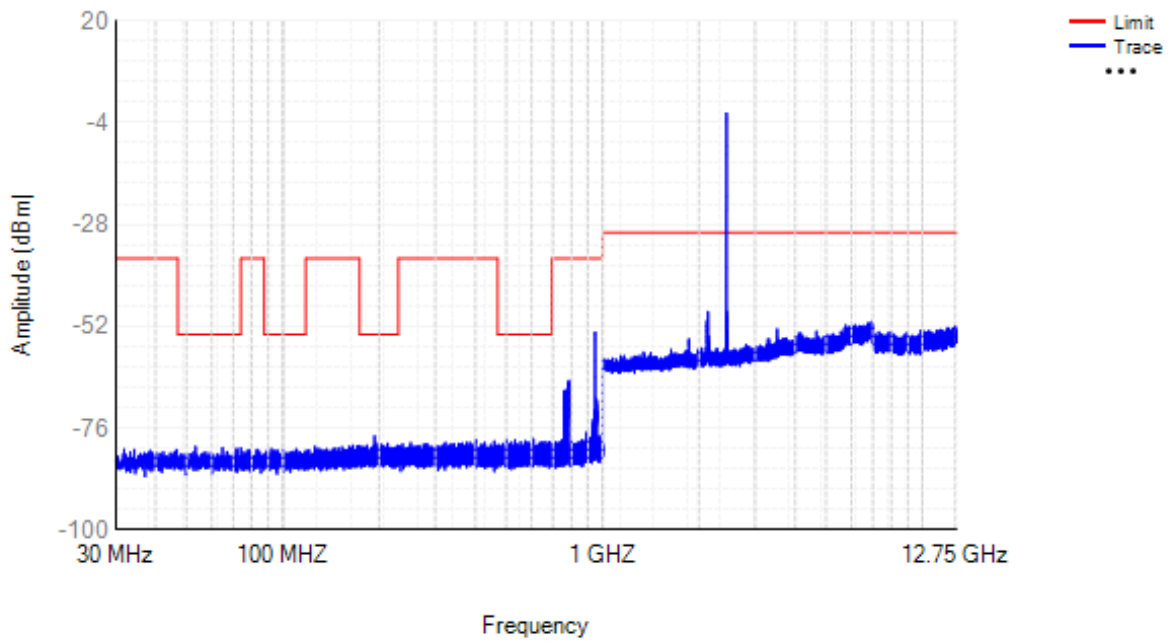
Transmitter unwanted emissions in the spurious domain



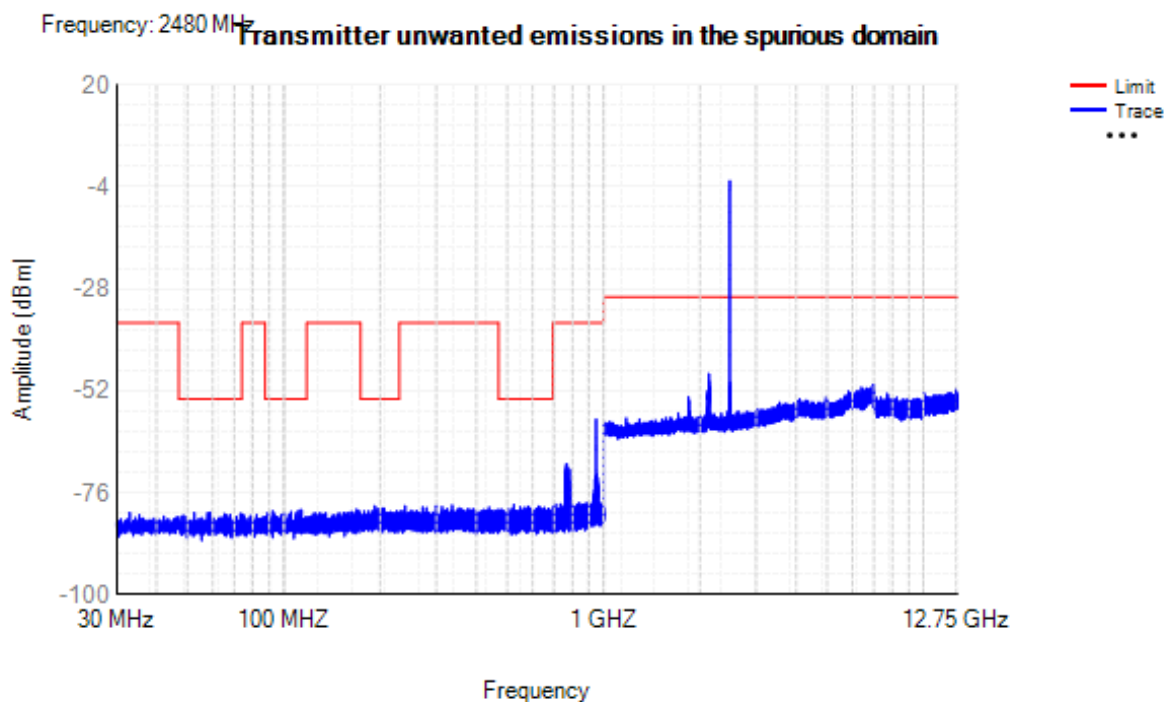
Tx. Spurious NVNT 1-DH5 2441MHz Ant1

Frequency: 2441 MHz

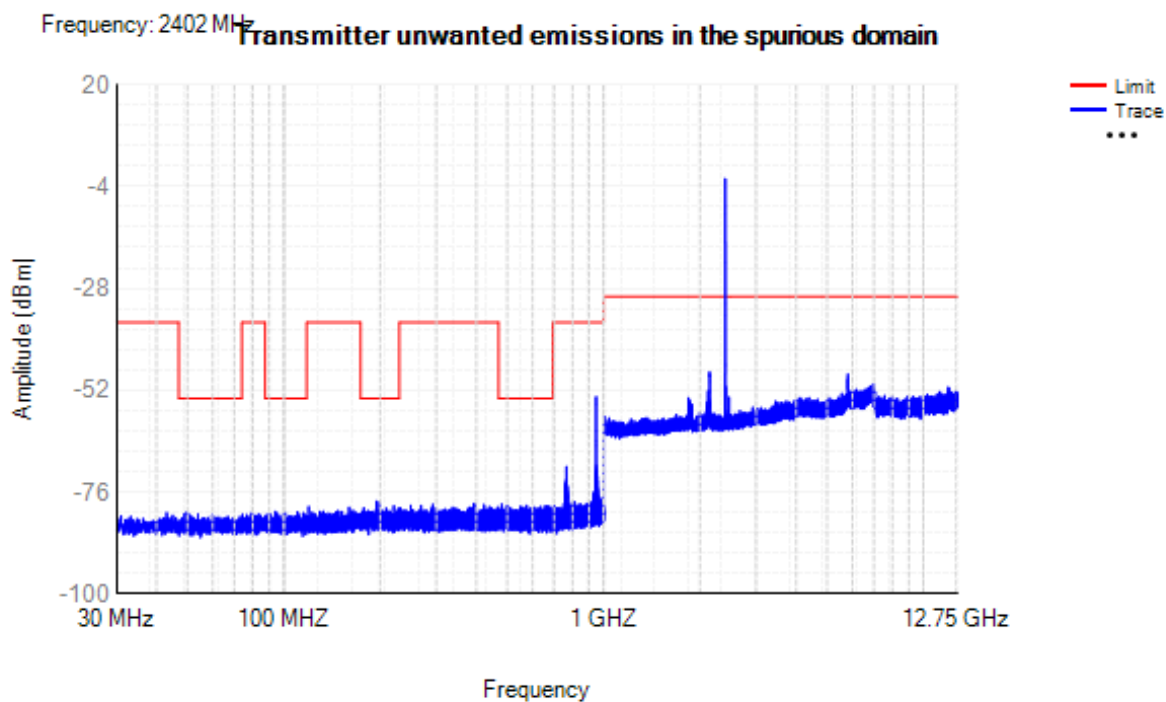
Transmitter unwanted emissions in the spurious domain



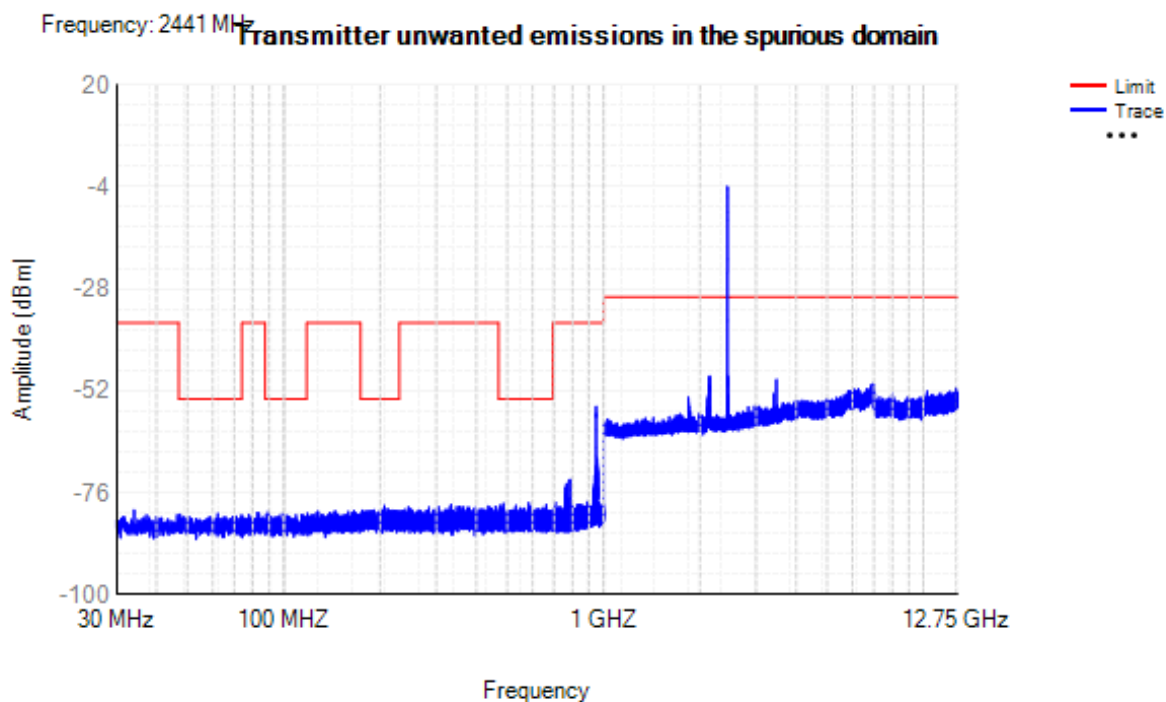
Tx. Spurious NVNT 1-DH5 2480MHz Ant1



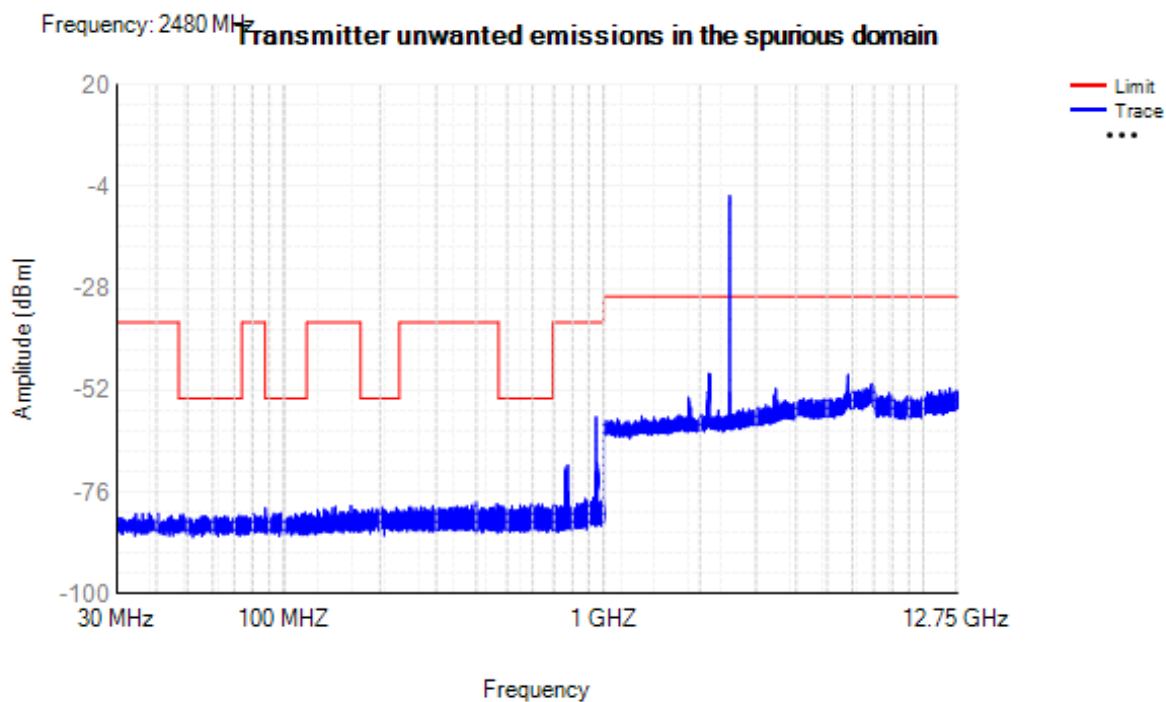
Tx. Spurious NVNT 2-DH5 2402MHz Ant1



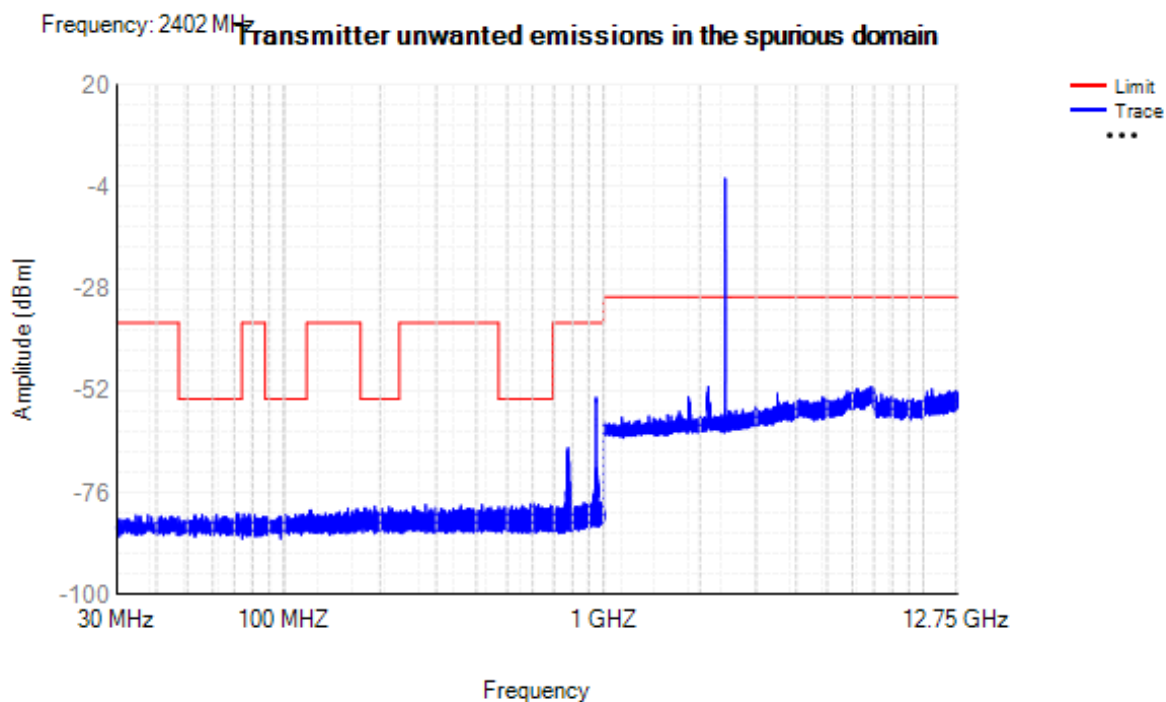
Tx. Spurious NVNT 2-DH5 2441MHz Ant1



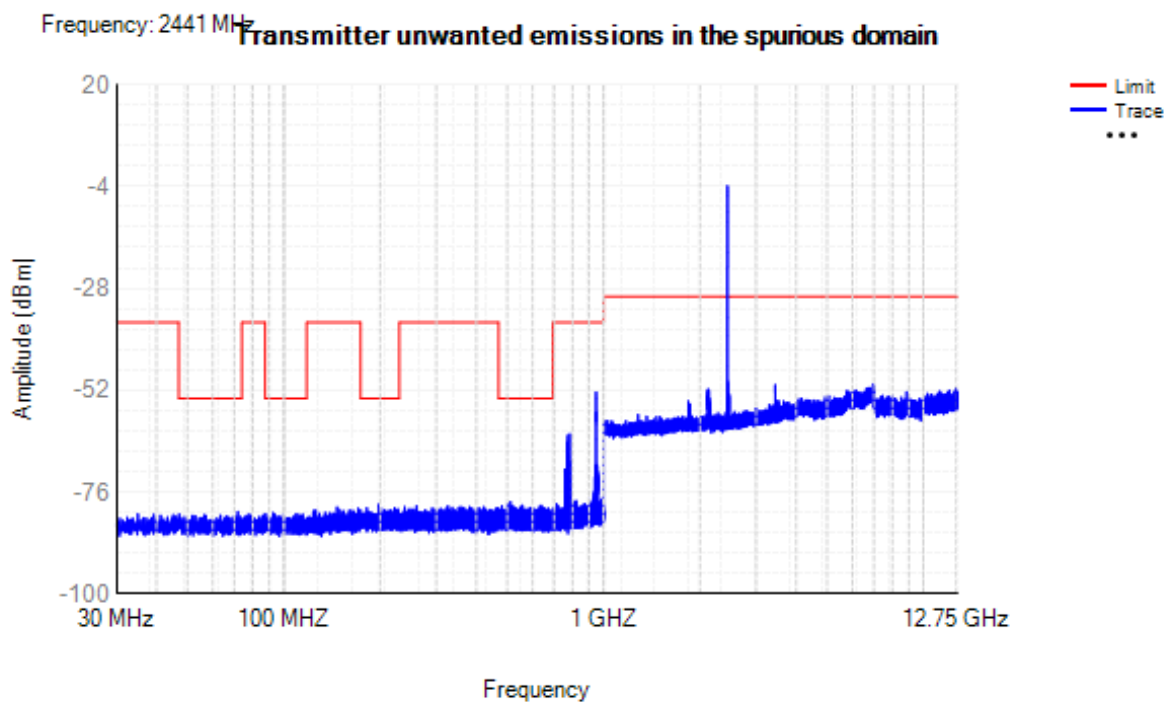
Tx. Spurious NVNT 2-DH5 2480MHz Ant1

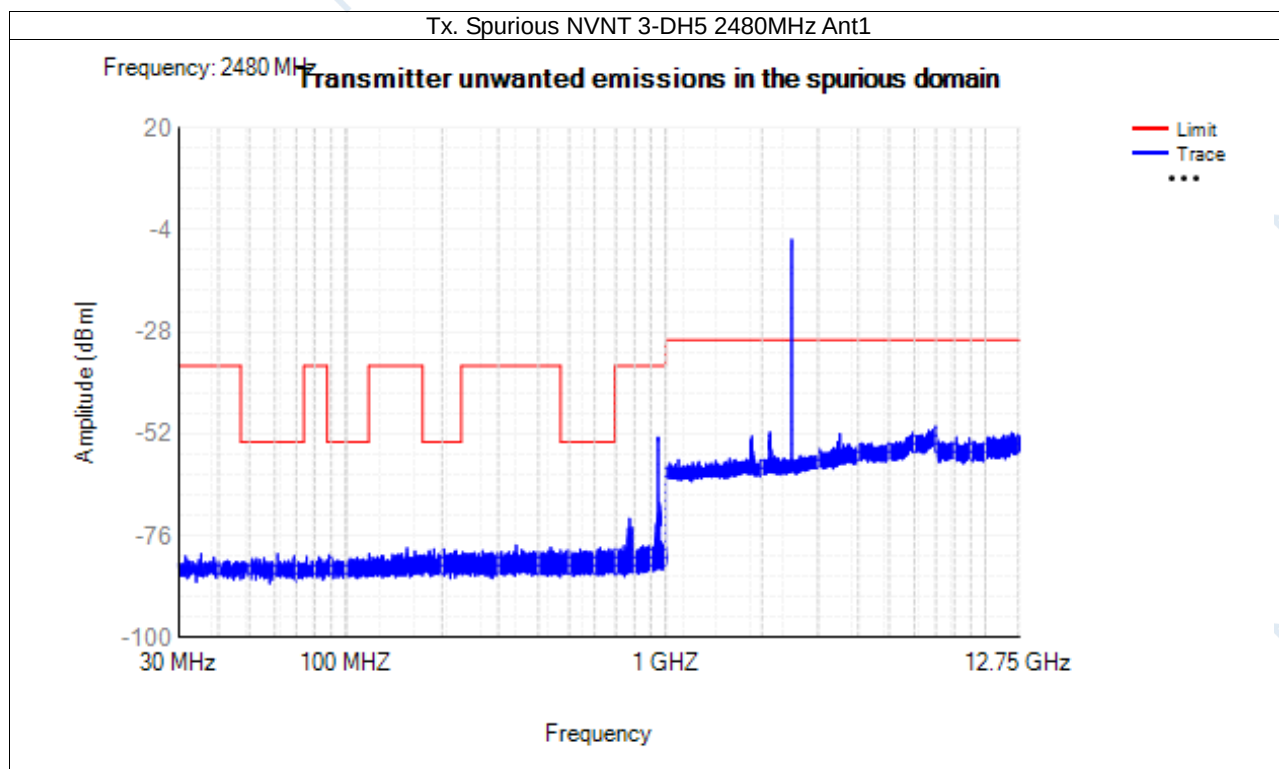


Tx. Spurious NVNT 3-DH5 2402MHz Ant1



Tx. Spurious NVNT 3-DH5 2441MHz Ant1



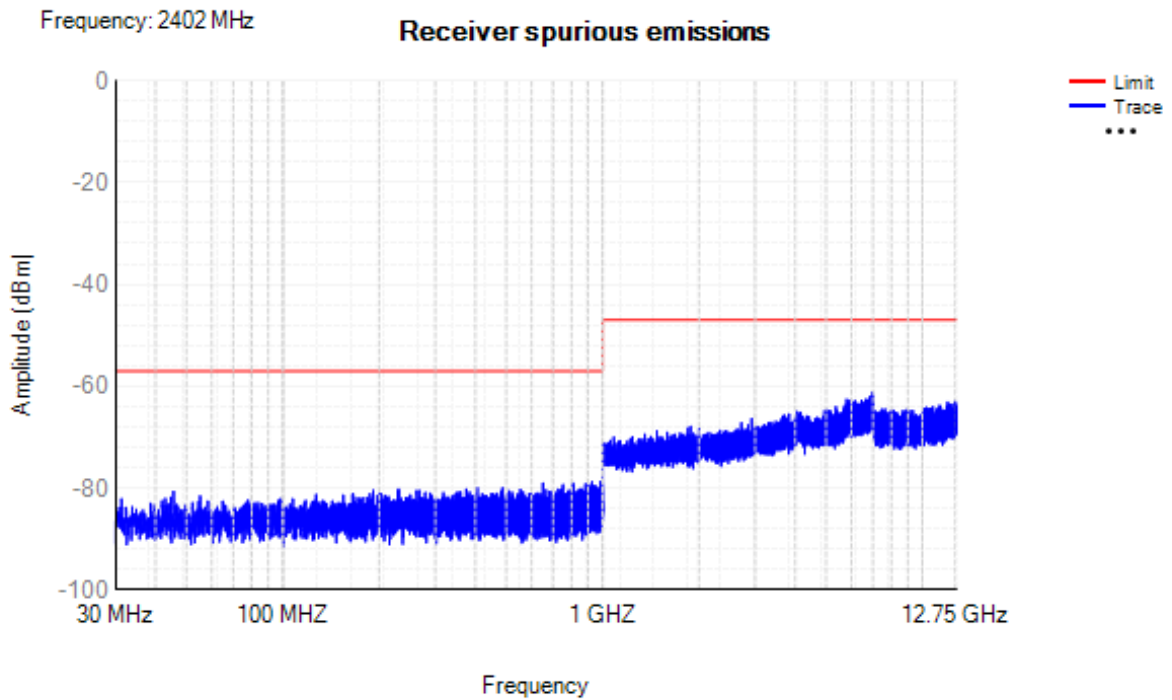


11.2.9 Receiver spurious emissions

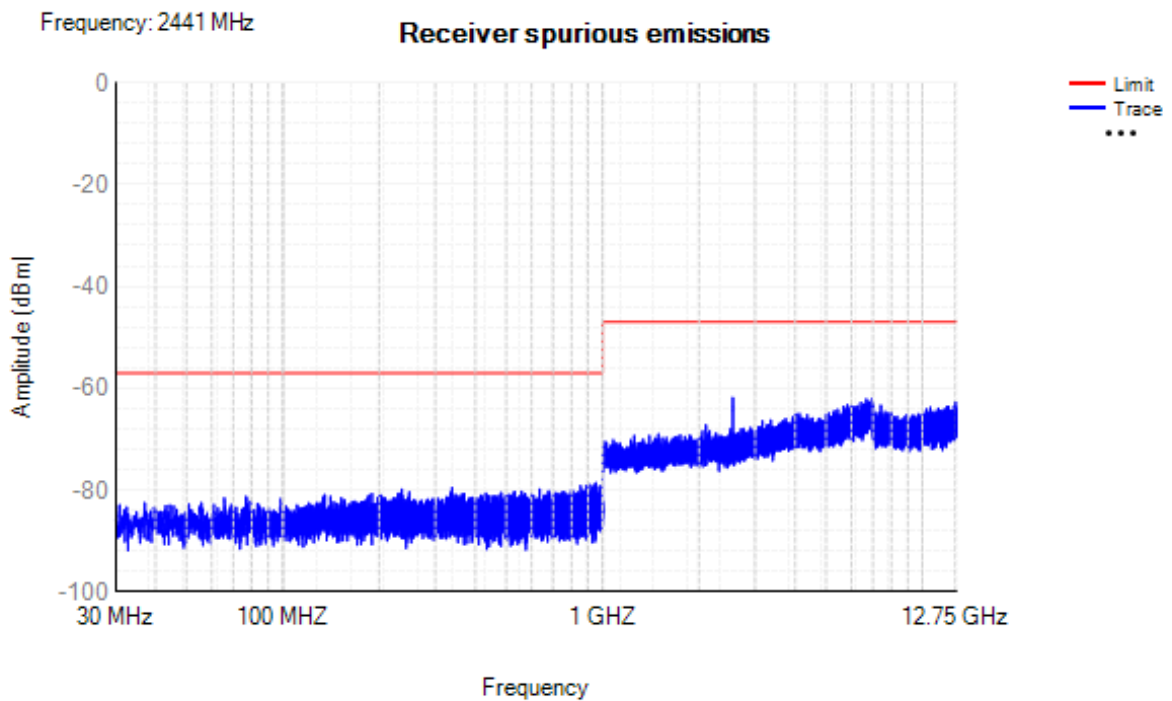
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	30 -1000	984.85	-78.75	NA	-57	Pass
NVNT	1-DH5	2402	Ant1	1000 -12750	6961	-61.19	NA	-47	Pass
NVNT	1-DH5	2441	Ant1	30 -1000	953.05	-78.54	NA	-57	Pass
NVNT	1-DH5	2441	Ant1	1000 -12750	2553.5	-61.84	NA	-47	Pass
NVNT	1-DH5	2480	Ant1	30 -1000	911	-77.52	NA	-57	Pass
NVNT	1-DH5	2480	Ant1	1000 -12750	6949	-61.55	NA	-47	Pass
NVNT	2-DH5	2402	Ant1	30 -1000	628.35	-78.93	NA	-57	Pass
NVNT	2-DH5	2402	Ant1	1000 -12750	6926.5	-60.33	NA	-47	Pass
NVNT	2-DH5	2441	Ant1	30 -1000	935.8	-78.17	NA	-57	Pass
NVNT	2-DH5	2441	Ant1	1000 -12750	6978	-61.47	NA	-47	Pass
NVNT	2-DH5	2480	Ant1	30 -1000	966.4	-78.54	NA	-57	Pass
NVNT	2-DH5	2480	Ant1	1000 -12750	6766	-61.37	NA	-47	Pass
NVNT	3-DH5	2402	Ant1	30 -1000	994.8	-78.64	NA	-57	Pass
NVNT	3-DH5	2402	Ant1	1000 -12750	6986	-61.15	NA	-47	Pass
NVNT	3-DH5	2441	Ant1	30 -1000	981.65	-77.97	NA	-57	Pass
NVNT	3-DH5	2441	Ant1	1000 -12750	6846.5	-61.30	NA	-47	Pass
NVNT	3-DH5	2480	Ant1	30 -1000	966.4	-78.14	NA	-57	Pass
NVNT	3-DH5	2480	Ant1	1000 -12750	6947	-61.65	NA	-47	Pass

Test Graphs

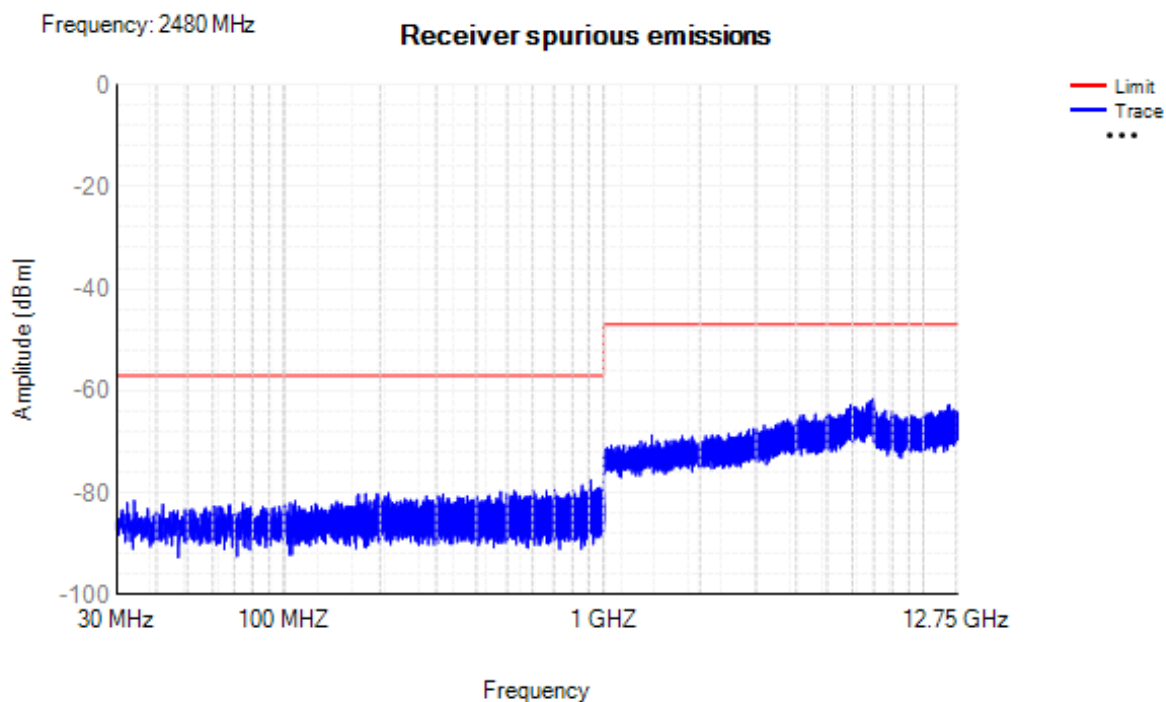
Rx. Spurious NVNT 1-DH5 2402MHz Ant1



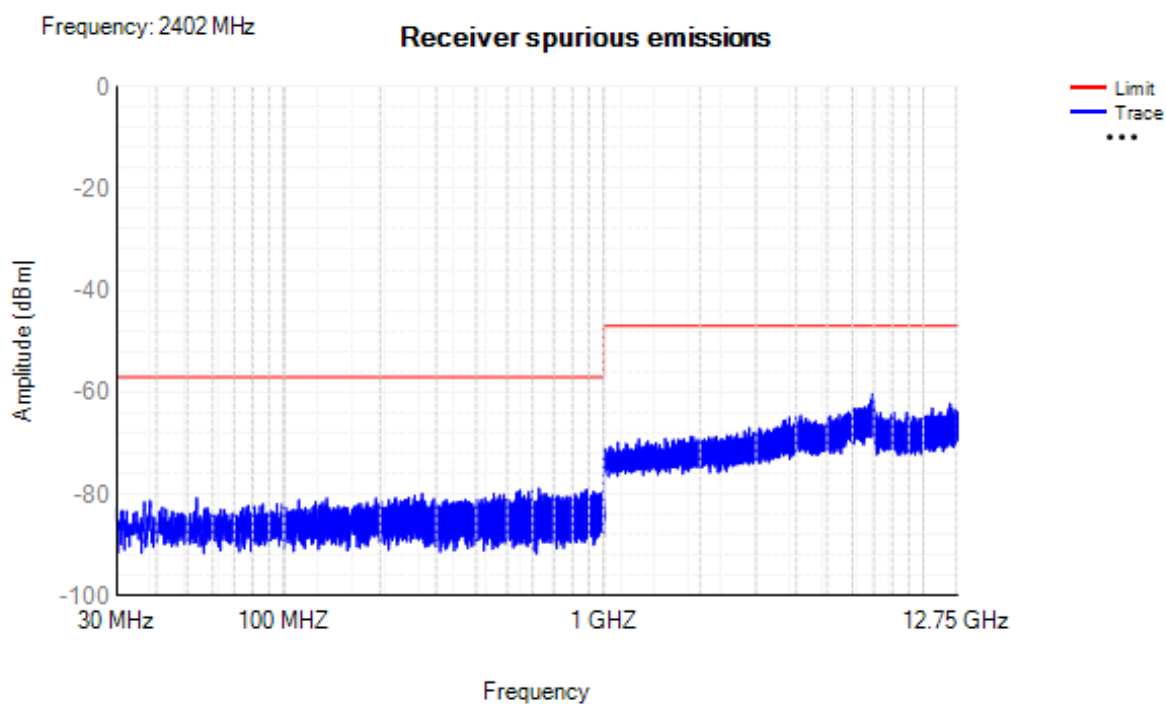
Rx. Spurious NVNT 1-DH5 2441MHz Ant1



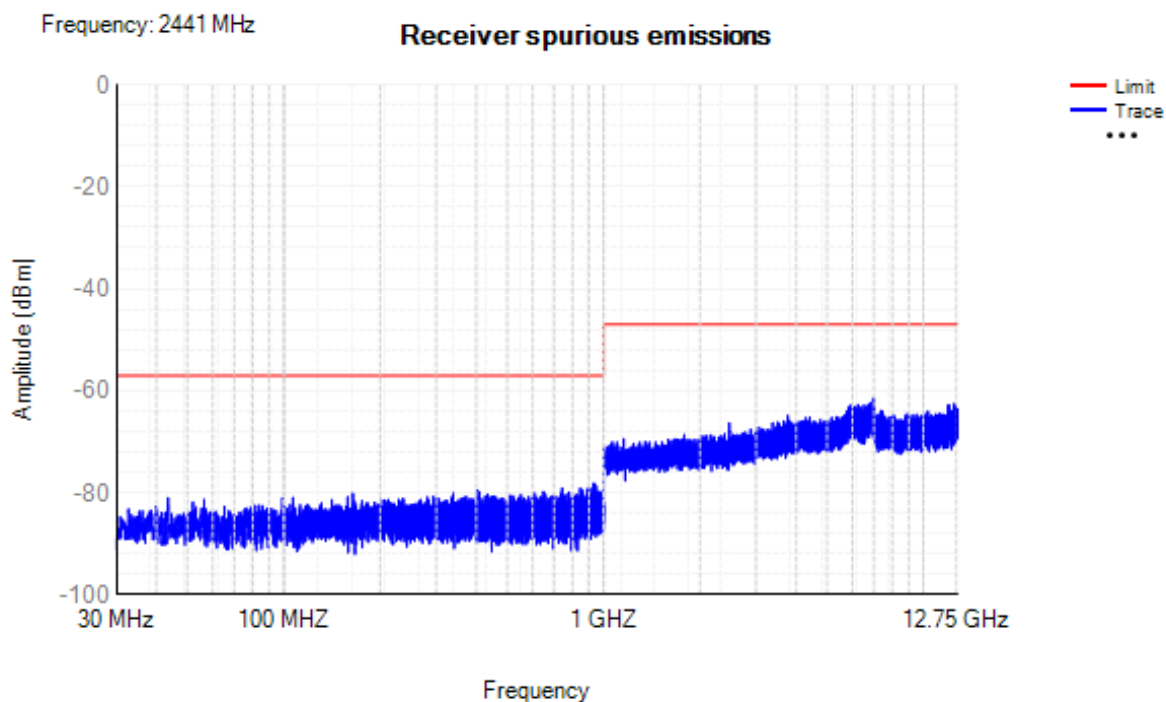
Rx. Spurious NVNT 1-DH5 2480MHz Ant1



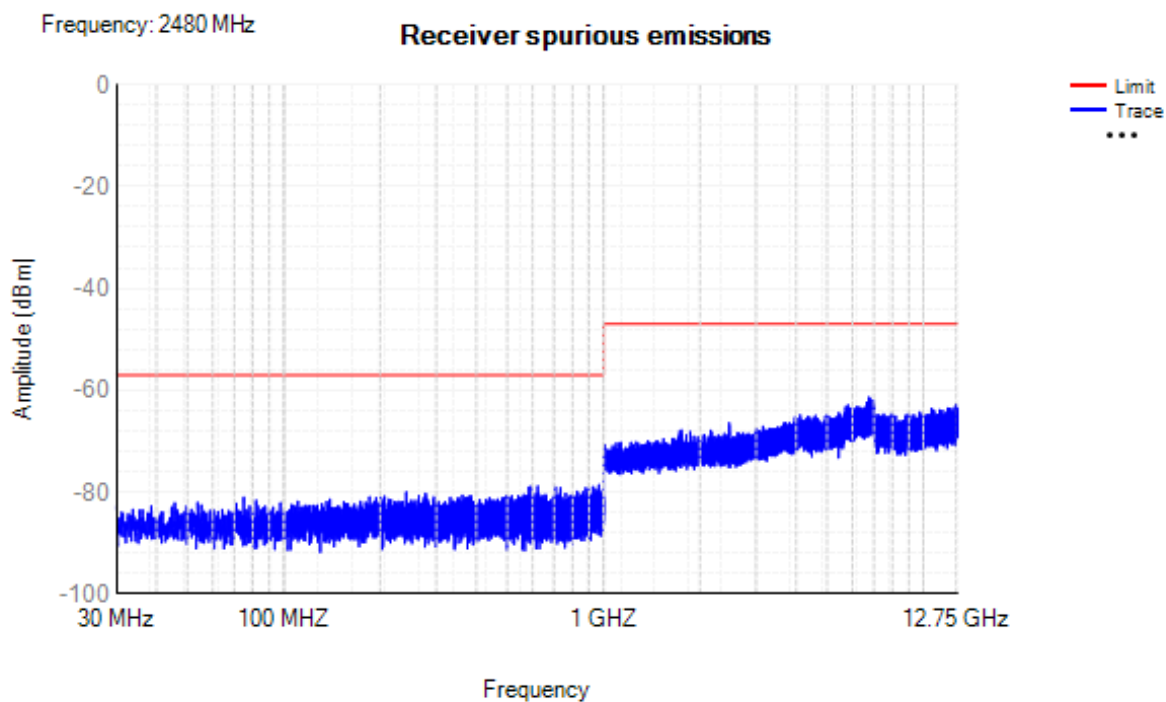
Rx. Spurious NVNT 2-DH5 2402MHz Ant1



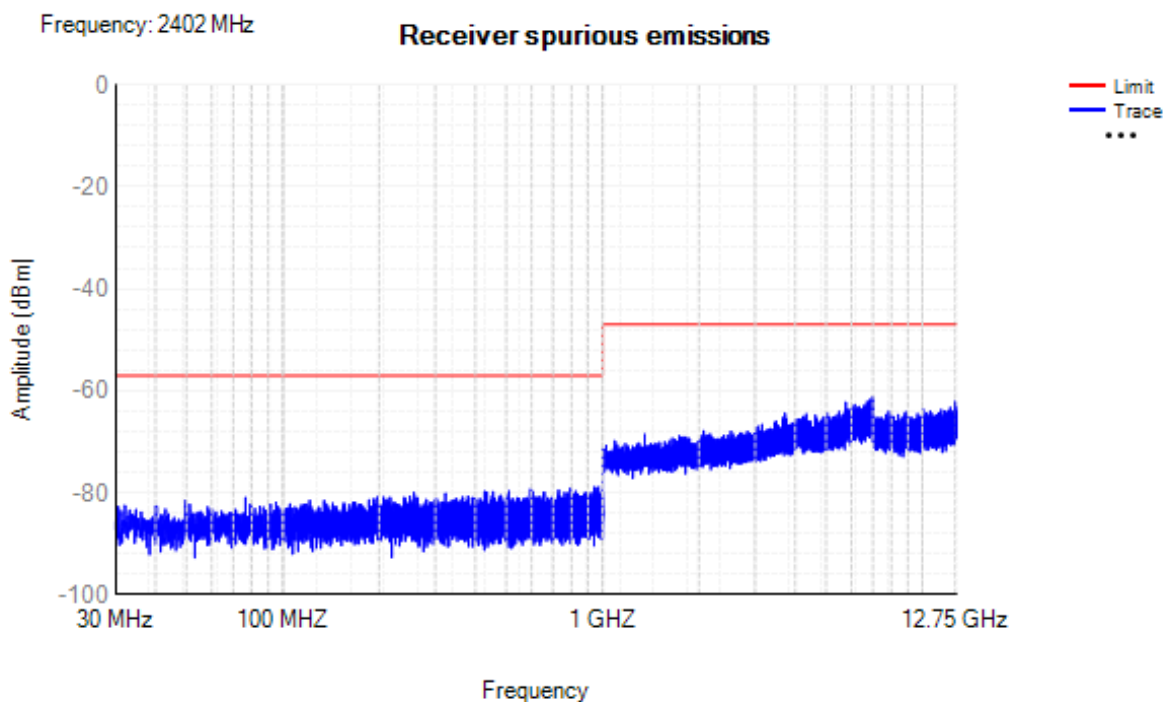
Rx. Spurious NVNT 2-DH5 2441MHz Ant1



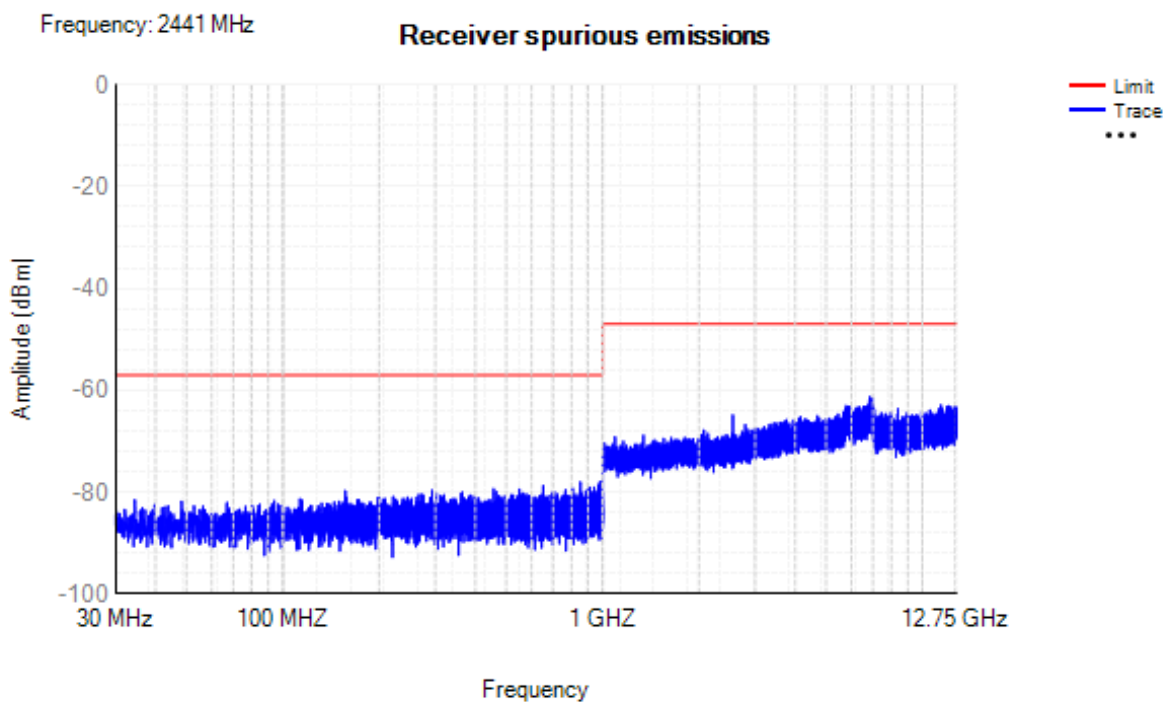
Rx. Spurious NVNT 2-DH5 2480MHz Ant1

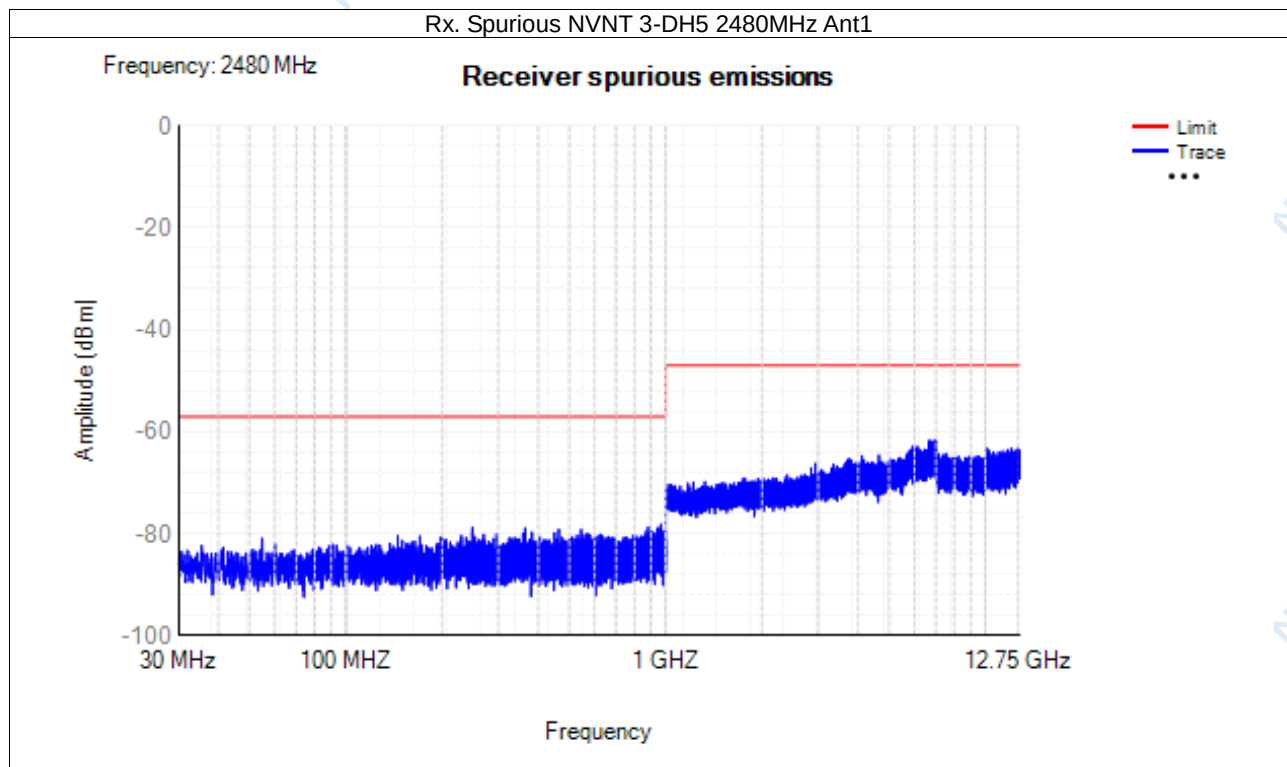


Rx. Spurious NVNT 3-DH5 2402MHz Ant1



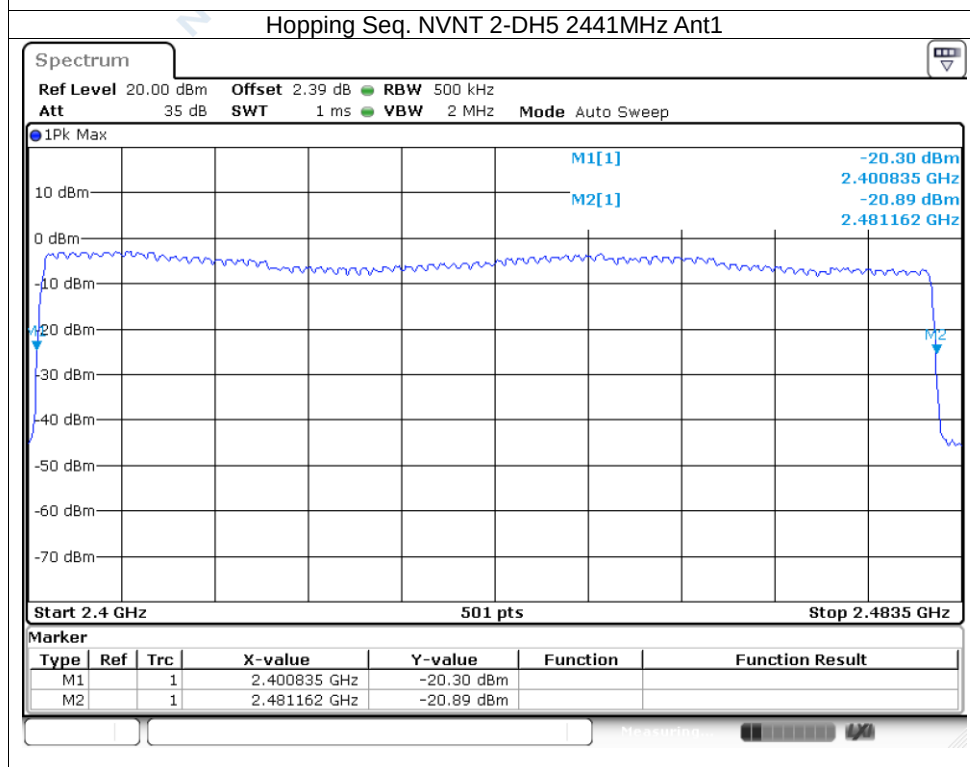
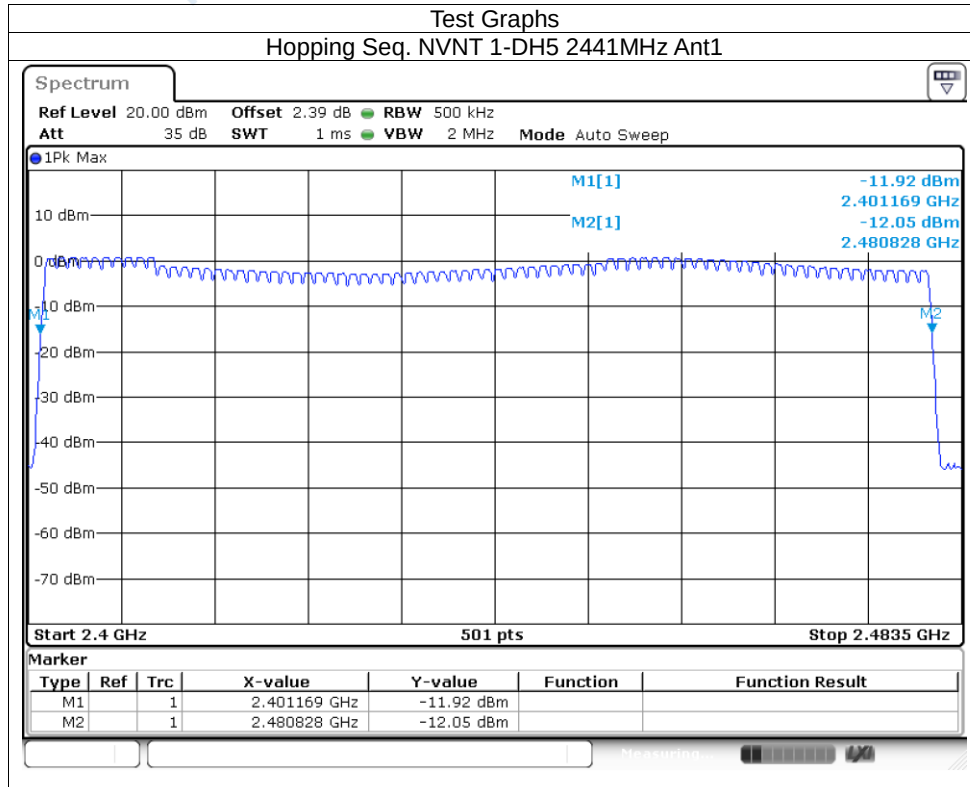
Rx. Spurious NVNT 3-DH5 2441MHz Ant1

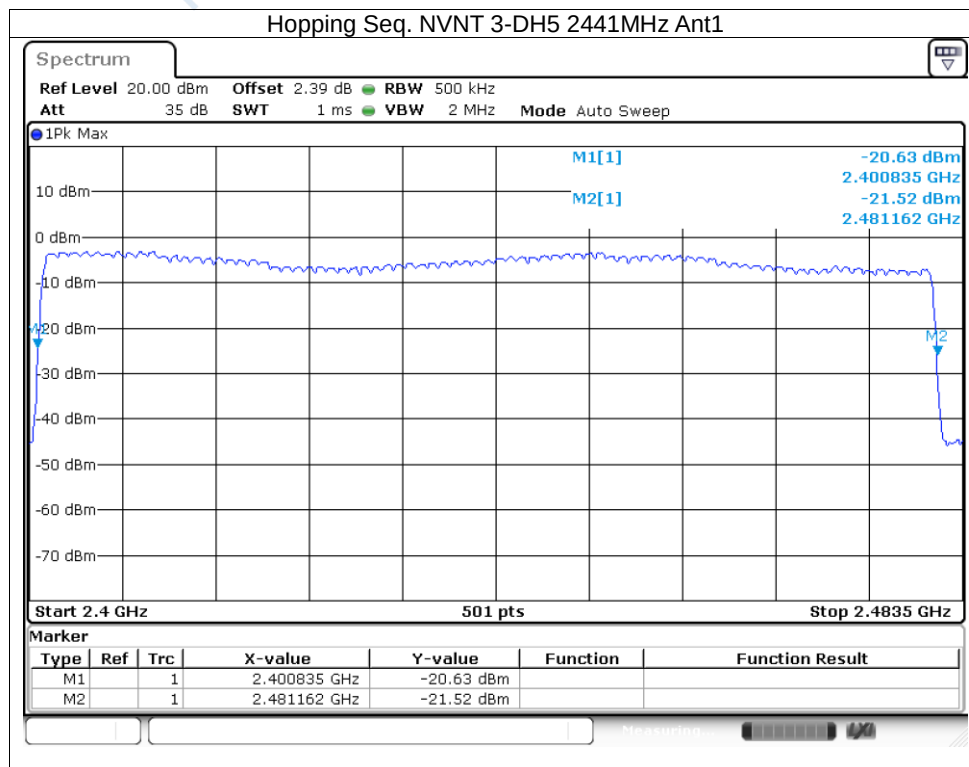




11.2.10 Hopping Sequence

Condition	Mode	Antenna	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	Ant1	79	15	95.4	70	Pass
NVNT	2-DH5	Ant1	79	15	96.2	70	Pass
NVNT	3-DH5	Ant1	79	15	96.2	70	Pass

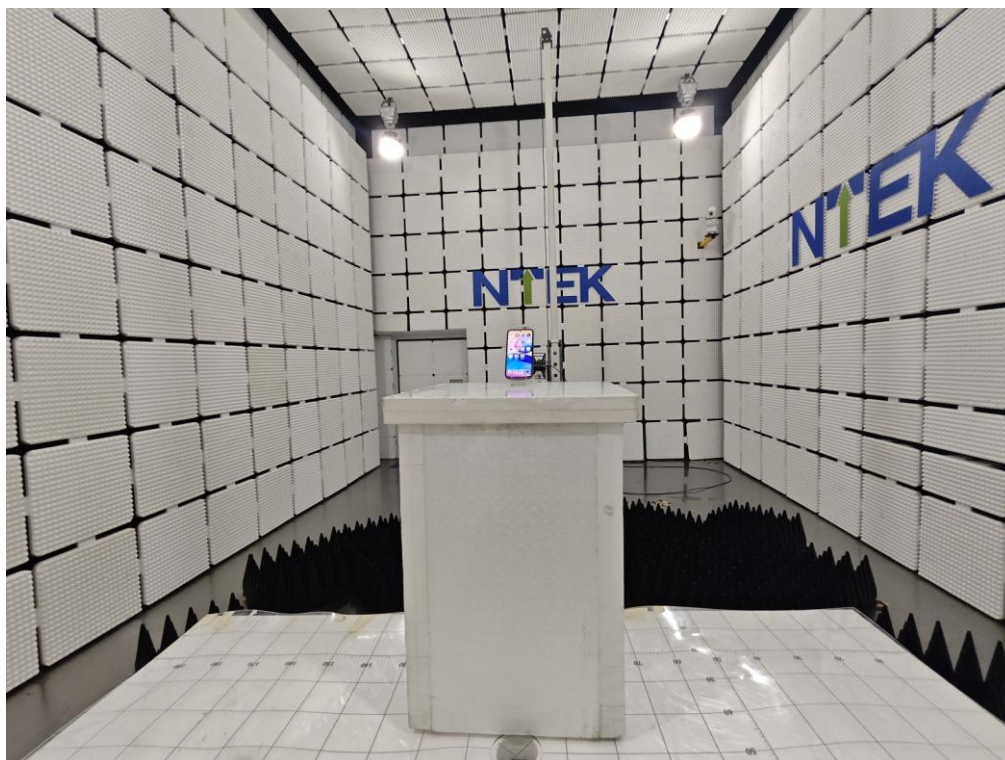




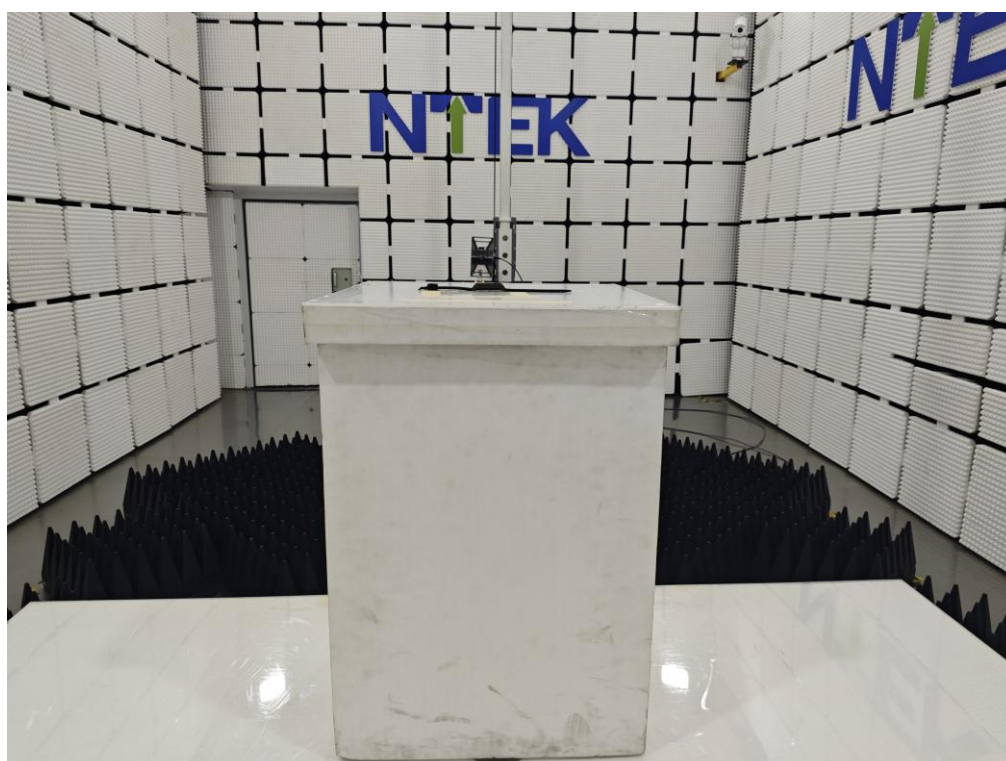
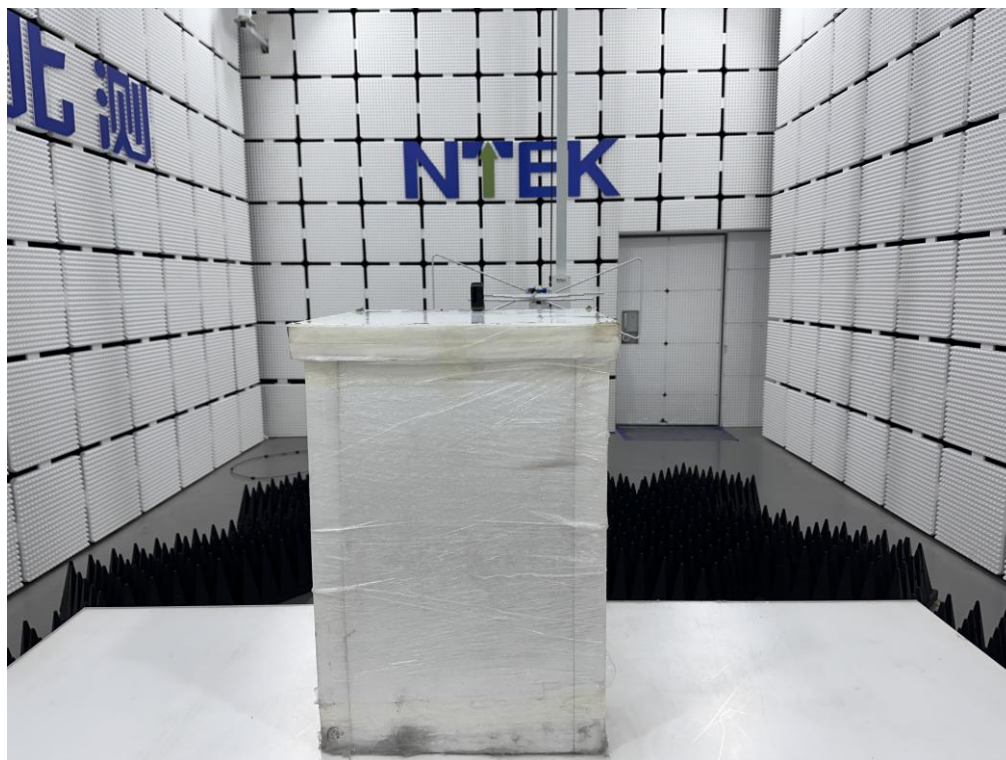
12. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS

Phone:



Watch:



END OF REPORT