

FCC RADIO TEST REPORT

FCC ID: 2BFDF-ZERO16

Product: Notebook
Trade Mark: THUNDEROBOT
Model No.: ZERO 16 Pro
Family Model: ZERO 16
Report No.: S25052004402003
Issue Date: Jul. 18, 2025

Prepared for

Qingdao THUNDEROBOT Technology Co.,Ltd.
No. 1, Haier Road, Laoshan District, Qingdao.

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.
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1 TEST RESULT CERTIFICATION

Applicant's name	Qingdao THUNDEROBOT Technology Co.,Ltd.
Address	No. 1, Haier Road, Laoshan District, Qingdao.
Manufacturer's Name	Qingdao THUNDEROBOT Technology Co.,Ltd.
Address	No. 1, Haier Road, Laoshan District, Qingdao.
Product description	
Product name	Notebook
Trade Mark	THUNDEROBOT
Model and/or type reference	ZERO 16 Pro
Family Model	ZERO 16
Test sample number	S250520044002
Date (s) of performance of tests ...	May 21, 2025 ~ Jul. 18, 2025

Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Prepared By : _____
Kieron Luo
(Project Engineer)

Reviewed By : _____
Aaron Cheng
(Supervisor)

Approved By : _____
Alex Li
(Manager)



2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Maximum Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. All test items were verified and recorded according to the standards and without any deviation during the test.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^\circ\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
10	POWER SPECTRAL DENSITY	$\pm 1.21\text{dB}$

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Notebook
Trade Mark	THUNDEROBOT
FCC ID	2BFDF-ZERO16
Model No.	ZERO 16 Pro
Family Model	ZERO 16
Model Difference	All models are the same antenna and RF module, except for model names and main board. ZERO 16 Pro with A55B1_MB main board while ZERO 16 with R55B2C_MB main board.
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20)/ax20; 2422-2452MHz for 802.11n(HT40)/ax40;
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax;
Number of Channels	11 channels for 802.11b/g/802.11n20/ax20; 7 channels for 802.11n40/ax40;
Antenna Type	Antenna 1: PIFA Antenna Antenna 2: PIFA Antenna
Antenna Gain	Antenna 1: 2.78dBi; Antenna 2: 2.86dBi
Smart system	☒ SISO for 802.11b/g/n20/n40/ax20/ax40 ☒ MIMO for 802.11n20/n40/ax20/ax40
Adapter1	Model: A621-2001400W-B31 Input: 100-240V~50/60Hz 4.0A Output: 20V---14A 280.0W
Adapter2	Model: A775-195B80W-B31 Input: 100-240V~50/60Hz 3.0A Output: 19.5V---11.8A 230.1W
Battery	DC 15.56V, 4924mAh, 76.62Wh
Rating(s)	DC 15.56V from battery or DC 20V or DC 19.5V from adapter
Hardware Version	A55B1_MB, R55B2C_MB
Software Version	Windows 11

Note: 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.

for 2.4G WIFI has two antennas, and different modes support different transmit mode what describe as Following form:

Mode	Tx/Rx
802.11b/g/n/ax	1TX, 1RX
802.11n/ax(20MHz,40MHz)	1TX, 1RX/2TX, 2RX

For 2.4GHz mode, antennas 1 and 2 are transmitting, each with a different directional gain.

For MIMO mode, Directional gain= $10\log[(10^{G1/20}+10^{G2/20})^2/N_{ANT}]$ dBi

Directional gain=5.83<6.0 dBi so power limit don't need to change

802.11n/ax(20/40) 2.4GHz has MIMO mode.

Note: G1 means antenna gain for ANT 1 in dBi.

G2 means antenna gain for ANT 2 in dBi.

N_{ANT} means the number of Antennas.

Revision History

Report No.	Version	Description	Issued Date
S25052004402003	Rev.01	Initial issue of report	Jul. 18, 2025

5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20) /ax20: MCS0; 802.11n (HT40)/ ax40: MCS0) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n/ax (HT20/HT40):

Channel	Frequency(MHz)
1	2412
2	2417
...	...
5	2432
6	2437
...	...
10	2457
11	2462

Note: $f_c = 2412\text{MHz} + (k-1) \times 5\text{MHz}$ $k=1$ to 11

Test Mode:

Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20/ax20	MCS0	1/6/11	1/2
	11n HT40/ax40	MCS0	3/6/9	1/2
Power Spectral Density	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20/ax20	MCS0	1/6/11	1/2
	11n HT40/ax40	MCS0	3/6/9	1/2
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20/ax20	MCS0	1/6/11	1/2
	11n HT40/ax40	MCS0	3/6/9	1/2
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above 1GHz	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20/ax20	MCS0	1/6/11	1/2
	11n HT40/ax40	MCS0	3/6/9	1/2
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20/ax20	MCS0	1/6/11	1/2
	11n HT40/ax40	MCS0	3/6/9	1/2

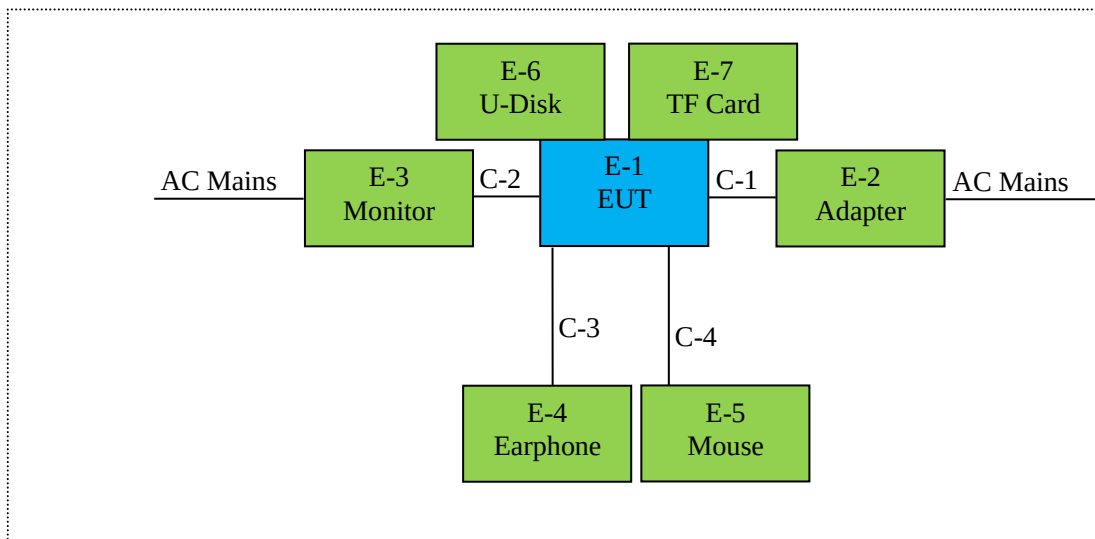
Note:

- 1.802.11ax supports only full RU.
- There are a total of two motherboards, namely A55B1_MB motherboard and R55B2C_MB motherboard. Both motherboards have undergone testing and evaluation. But the report will only show the worst data.

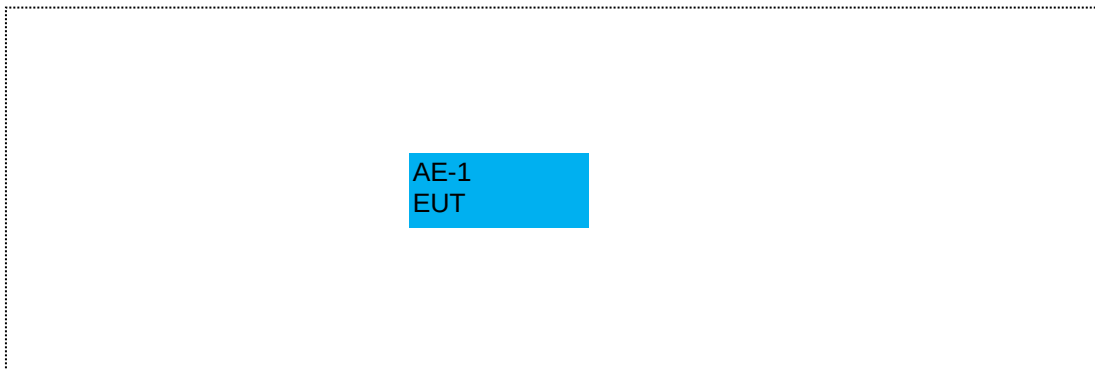
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

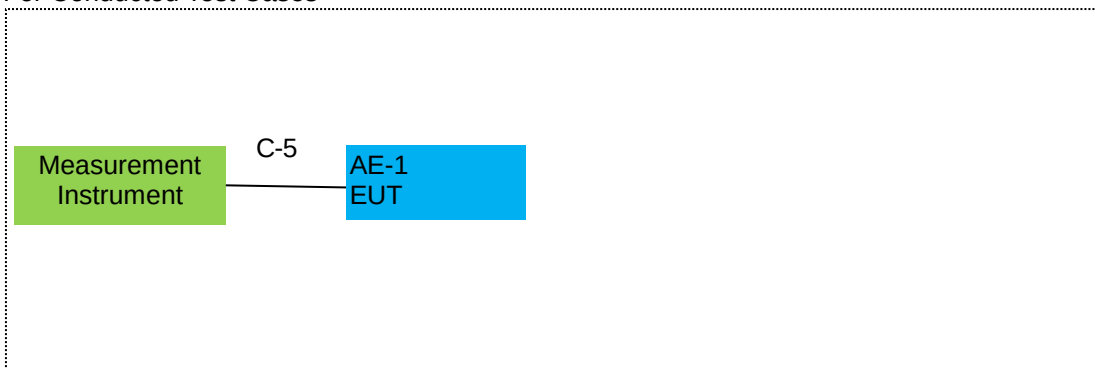
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.
 2. EUT built-in battery-powered, the battery is fully-charged.

6.2 SUPPORT EQUIPMENT

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	Manufacturer	Model/Type No.	Series No.	Note
E-1	Notebook	Qingdao THUNDEROBOT Technology Co.,Ltd.	ZERO 16 Pro	N/A	EUT
			ZERO 16	N/A	
E-2	Adapter	Dongguan Aohai Technology Co., Ltd.	A621-2001400W-B31	N/A	Peripherals
E-2	Adapter	Dongguan Aohai Technology Co., Ltd.	A775-195B80W-B31	N/A	Peripherals
E-3	Monitor	PHIIPS	32PFF6899/T3	N/A	Peripherals
E-4	Earphone	N/A	N/A	N/A	Peripherals
E-5	Mouse	DELL	MS116c	N/A	Peripherals
E-6	U-Disk	SONY	SF-8C4	MMCTF08GWAC A-MM	Peripherals
E-7	TF Card	Kingston	CO8G	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	YES	NO	1.1m
C-2	HDMI Cable	YES	YES	1.2m
C-3	Audio cable	NO	NO	0.8m
C-4	USB Cable	NO	NO	0.8m
C-5	RF Cable	YES	NO	0.1m

Notes:

- (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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2025.04.24	2026.04.23	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.04.17	2026.04.16	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2025.04.17	2026.04.16	1 year
4	Test Receiver	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2025.05.11	2026.05.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2025.04.17	2026.04.16	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	MWRFTest	MW100-PD	MW2021043	2024.12.15	2025.12.14	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2023.05.06	2026.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2025.04.17	2026.04.16	1 year
2	LISN	R&S	ENV216	101313	2025.04.17	2026.04.16	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2025.04.17	2026.04.16	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

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

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

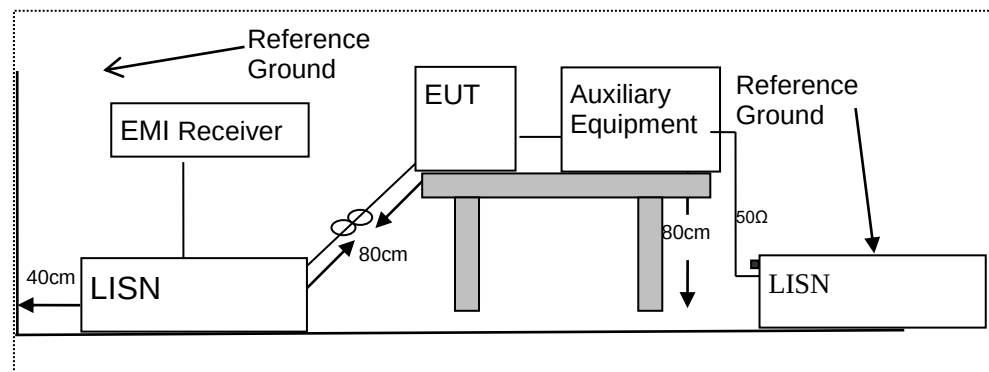
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
 2. The lower limit shall apply at the transition frequencies
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.1.6 Test Results

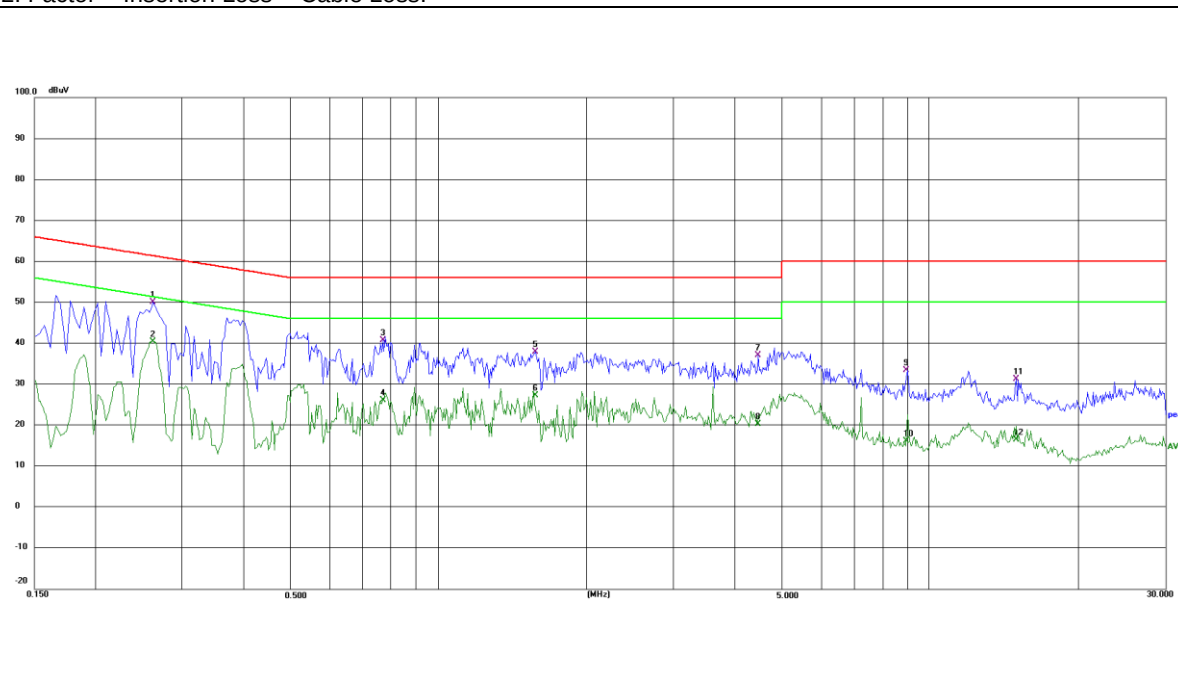
EUT:	Notebook	Model Name :	ZERO 16 Pro
Temperature:	24 °C	Relative Humidity:	46%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Adapter1:

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2620	39.83	10.20	50.03	61.37	-11.34	QP
0.2620	30.18	10.20	40.38	51.37	-10.99	AVG
0.7700	29.45	11.25	40.70	56.00	-15.30	QP
0.7700	14.88	11.25	26.13	46.00	-19.87	AVG
1.5700	25.10	12.88	37.98	56.00	-18.02	QP
1.5700	14.37	12.88	27.25	46.00	-18.75	AVG
4.4660	27.32	9.80	37.12	56.00	-18.88	QP
4.4660	10.46	9.80	20.26	46.00	-25.74	AVG
8.9819	23.50	9.91	33.41	60.00	-26.59	QP
8.9819	6.16	9.91	16.07	50.00	-33.93	AVG
14.9860	20.95	10.30	31.25	60.00	-28.75	QP
14.9860	6.12	10.30	16.42	50.00	-33.58	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

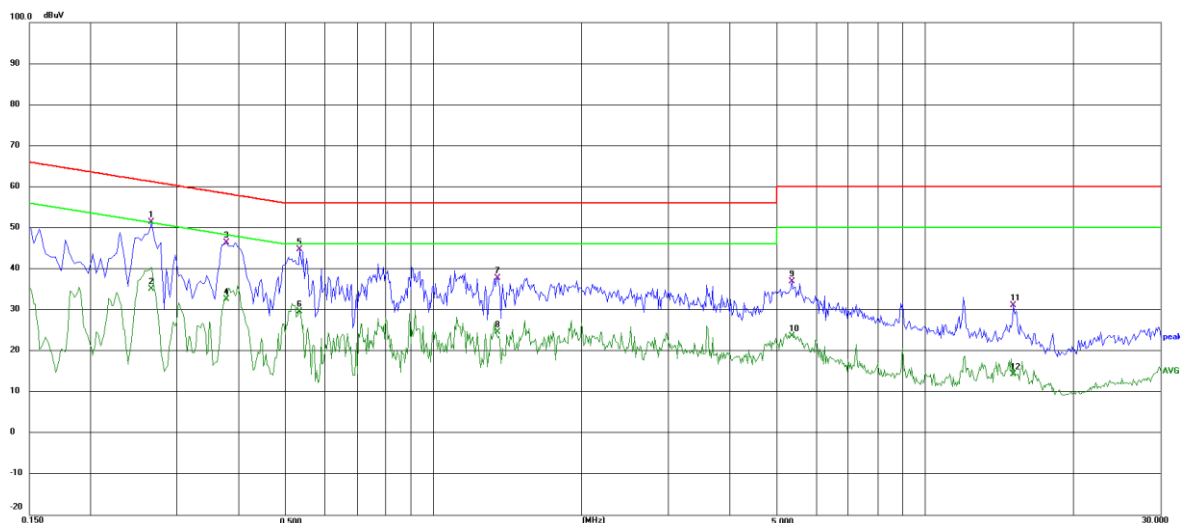


EUT:	Notebook	Model Name :	ZERO 16 Pro
Temperature:	24 °C	Relative Humidity:	46%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2660	41.10	10.22	51.32	61.24	-9.92	QP
0.2660	24.81	10.22	35.03	51.24	-16.21	AVG
0.3780	35.92	10.45	46.37	58.32	-11.95	QP
0.3780	22.09	10.45	32.54	48.32	-15.78	AVG
0.5340	34.04	10.76	44.80	56.00	-11.20	QP
0.5340	18.85	10.76	29.61	46.00	-16.39	AVG
1.3460	25.32	12.43	37.75	56.00	-18.25	QP
1.3460	12.14	12.43	24.57	46.00	-21.43	AVG
5.3580	27.05	9.82	36.87	60.00	-23.13	QP
5.3580	13.80	9.82	23.62	50.00	-26.38	AVG
15.1260	20.73	10.31	31.04	60.00	-28.96	QP
15.1260	3.94	10.31	14.25	50.00	-35.75	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



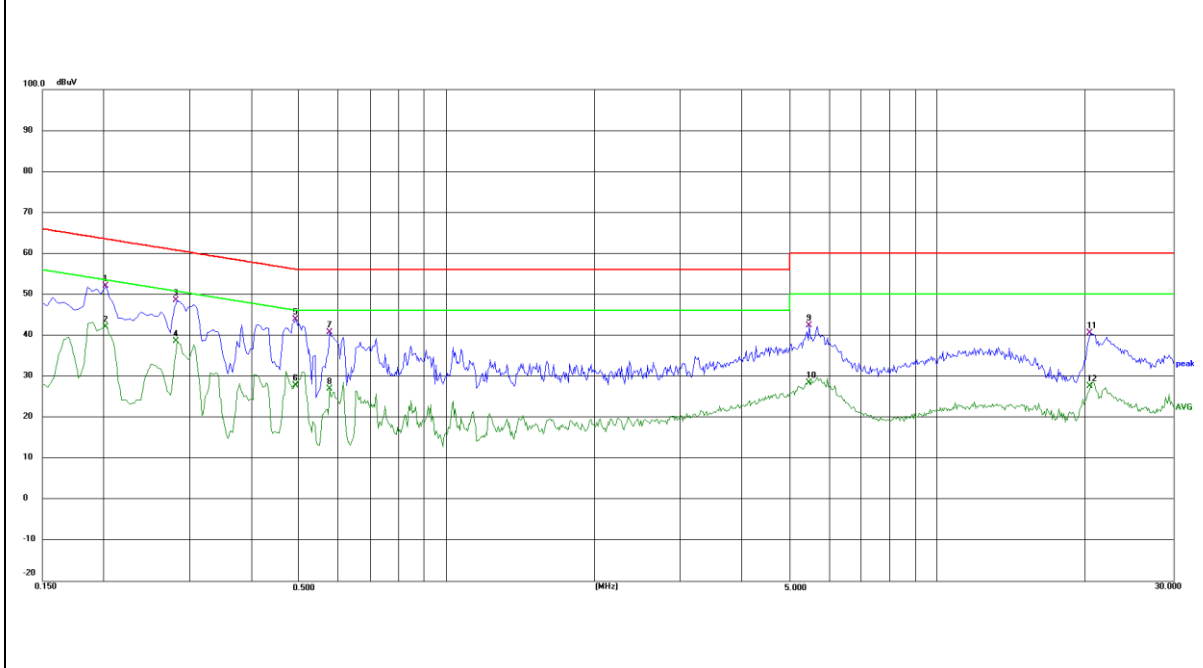
EUT:	Notebook	Model Name :	ZERO 16
Temperature:	24 °C	Relative Humidity:	46%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 19.5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Adapter2:

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2020	42.00	10.11	52.11	63.53	-11.42	QP
0.2020	32.03	10.11	42.14	53.53	-11.39	AVG
0.2819	38.43	10.20	48.63	60.76	-12.13	QP
0.2819	28.42	10.20	38.62	50.76	-12.14	AVG
0.4940	33.23	10.74	43.97	56.10	-12.13	QP
0.4940	17.05	10.74	27.79	46.10	-18.31	AVG
0.5780	29.96	10.87	40.83	56.00	-15.17	QP
0.5780	16.10	10.87	26.97	46.00	-19.03	AVG
5.4580	32.48	9.90	42.38	60.00	-17.62	QP
5.4580	18.47	9.90	28.37	50.00	-21.63	AVG
20.4619	30.24	10.30	40.54	60.00	-19.46	QP
20.4619	17.34	10.30	27.64	50.00	-22.36	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

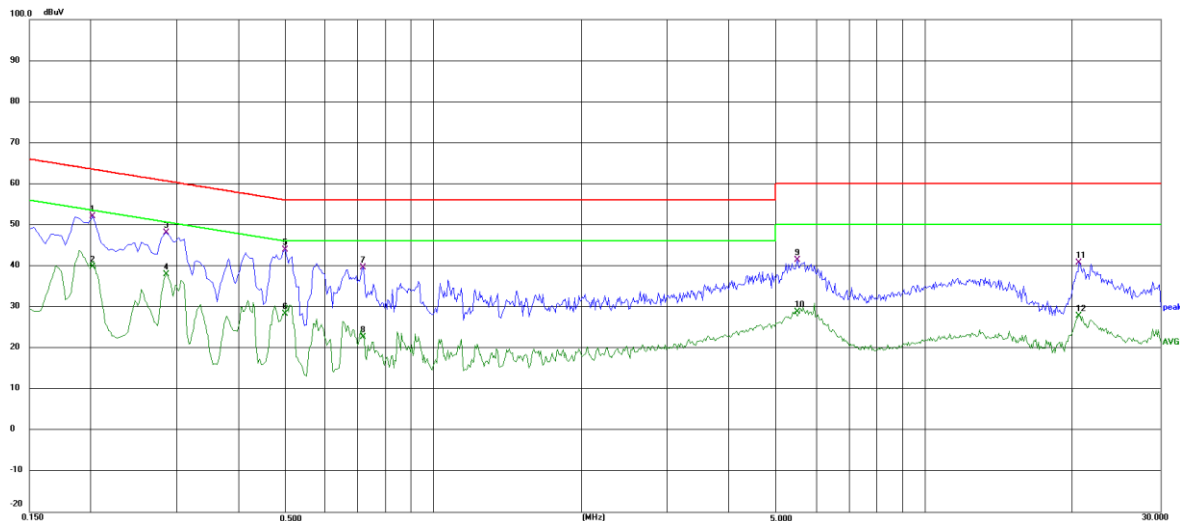


EUT:	Notebook	Model Name :	ZERO 16
Temperature:	24 °C	Relative Humidity:	46%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 19.5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2020	42.04	10.08	52.12	63.53	-11.41	QP
0.2020	29.65	10.08	39.73	53.53	-13.80	AVG
0.2860	37.84	10.26	48.10	60.64	-12.54	QP
0.2860	27.61	10.26	37.87	50.64	-12.77	AVG
0.4980	33.13	10.70	43.83	56.03	-12.20	QP
0.4980	17.63	10.70	28.33	46.03	-17.70	AVG
0.7180	28.42	11.14	39.56	56.00	-16.44	QP
0.7180	11.41	11.14	22.55	46.00	-23.45	AVG
5.4860	31.57	9.82	41.39	60.00	-18.61	QP
5.4860	18.88	9.82	28.70	50.00	-21.30	AVG
20.5140	30.47	10.25	40.72	60.00	-19.28	QP
20.5140	17.55	10.25	27.80	50.00	-22.20	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

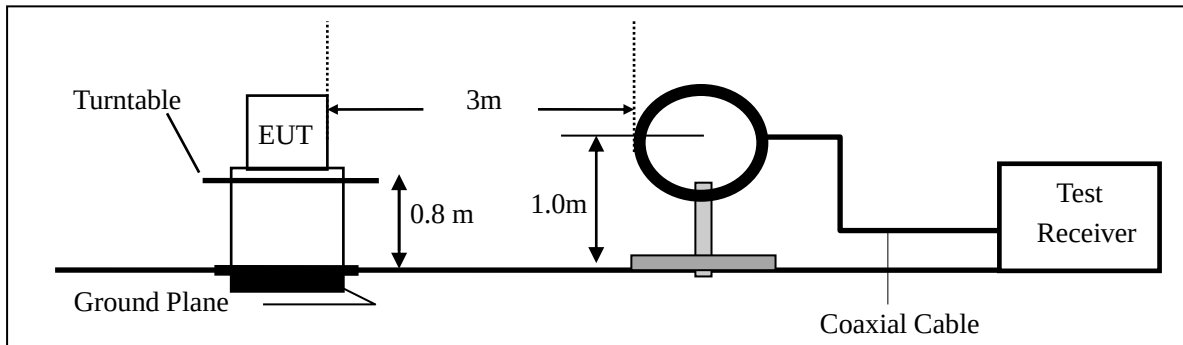
Remark :1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. For Frequency 9kHz~30MHz:
 Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
 Limit line=Specific limits(dBuV) + distance extrapolation factor.
 For Frequency above 30MHz:
 Distance extrapolation factor =20log(Specific distance/ test distance)(dB);
 Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

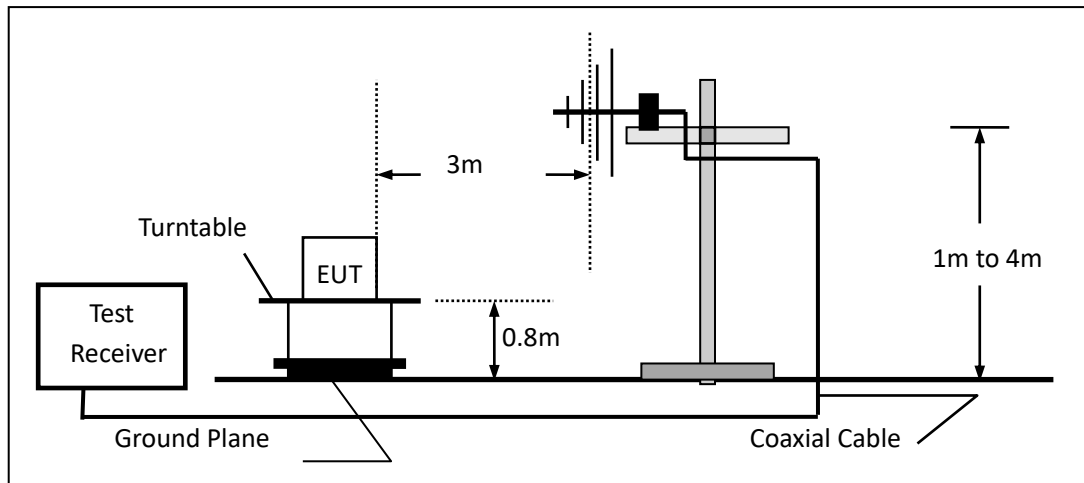
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

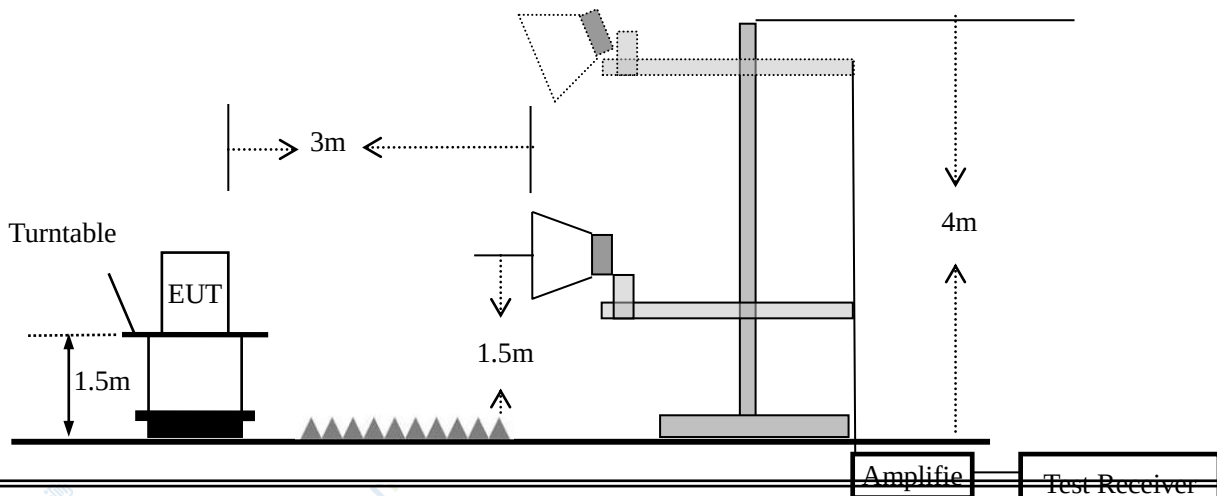
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and frequencies above 1GHz,
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

For peak measurement:

Set RBW=120 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;

Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of

operation.

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20,HT40)/ax(20,40)	Test By:	Kieron Luo

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

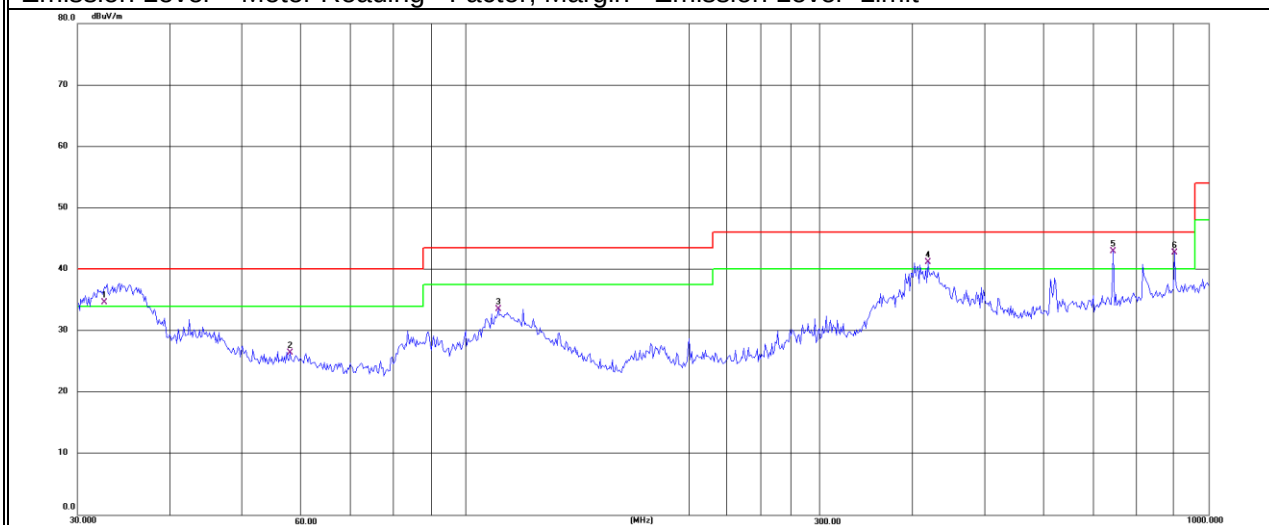
- Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Notebook	Model Name :	ZERO 16 Pro
Temperature:	24 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	802.11b CH06
Test Voltage :	DC 15.56V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.6600	17.72	16.96	34.68	40.00	-5.32	QP
V	57.9993	7.45	19.03	26.48	40.00	-13.52	QP
V	110.5687	15.75	17.75	33.50	43.50	-10.00	QP
V	419.1081	17.82	23.29	41.11	46.00	-4.89	QP
V	744.8661	14.11	28.78	42.89	46.00	-3.11	QP
V	900.1474	11.75	31.00	42.75	46.00	-3.25	QP

Remark:

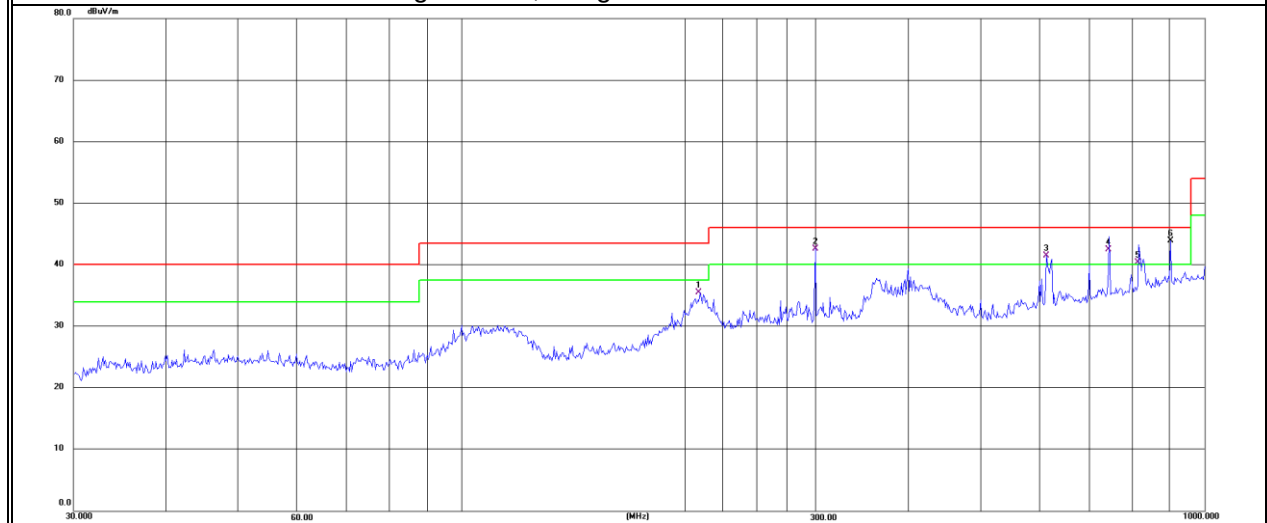
Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	209.3129	17.28	18.22	35.50	43.50	-8.00	QP
H	299.3158	22.18	20.43	42.61	46.00	-3.39	QP
H	612.0642	15.00	26.47	41.47	46.00	-4.53	QP
H	744.5321	13.76	28.78	42.54	46.00	-3.46	QP
H	815.3521	10.54	29.88	40.42	46.00	-5.58	QP
H	900.1474	12.94	31.00	43.94	46.00	-2.06	QP

Remark:

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

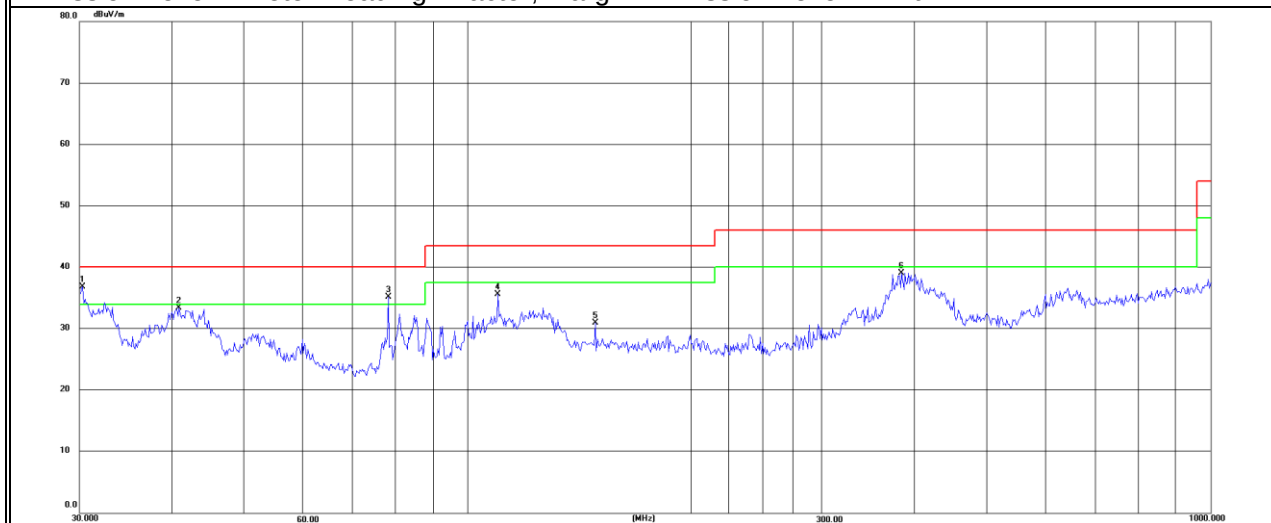


EUT:	Notebook	Model Name :	ZERO 16
Temperature:	24 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	802.11b CH06
Test Voltage :	DC 15.56V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.3173	20.23	16.65	36.88	40.00	-3.12	QP
V	40.8446	14.32	19.05	33.37	40.00	-6.63	QP
V	78.1389	21.13	14.06	35.19	40.00	-4.81	QP
V	109.7960	17.33	18.29	35.62	43.50	-7.88	QP
V	148.4410	16.74	14.24	30.98	43.50	-12.52	QP
V	383.9318	17.00	22.05	39.05	46.00	-6.95	QP

Remark:

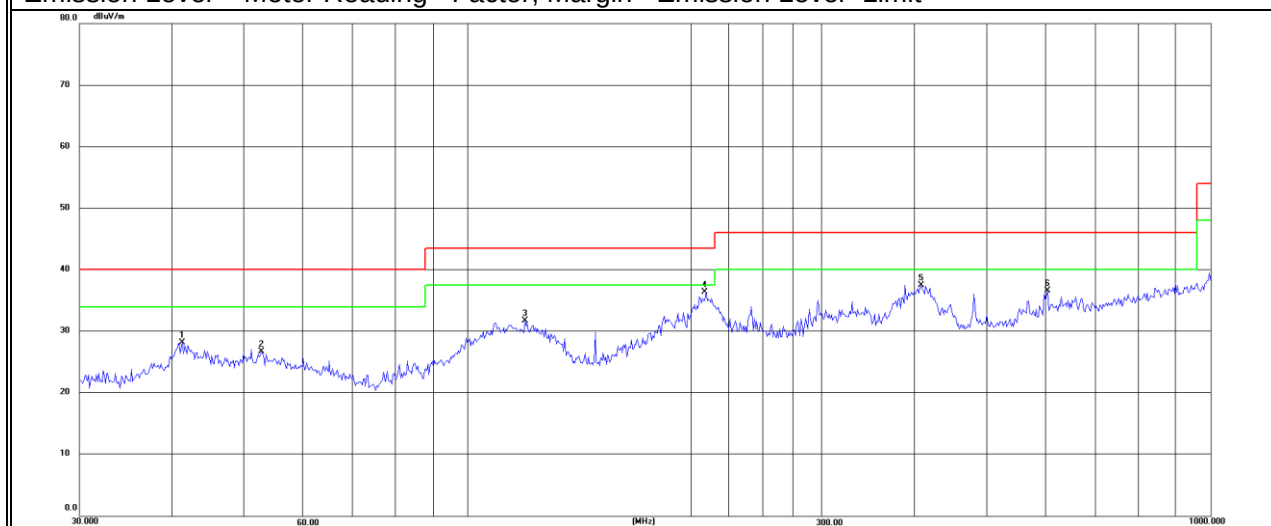
Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	41.2765	9.08	19.10	28.18	40.00	-11.82	QP
H	52.7600	6.60	20.12	26.72	40.00	-13.28	QP
H	119.4361	15.67	16.04	31.71	43.50	-11.79	QP
H	209.3129	18.54	17.82	36.36	43.50	-7.14	QP
H	407.5145	14.64	22.84	37.48	46.00	-8.52	QP
H	603.5392	10.35	26.31	36.66	46.00	-9.34	QP

Remark:

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



■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20,HT40)/ax(20,40)	Test By:	Kieron Luo

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
Low Channel (2412 MHz)(802.11 b)--Above 1G									
4824	55.15	5.21	35.59	44.30	51.65	74.00	-22.35	Pk	Vertical
4824	44.70	5.21	35.59	44.30	41.20	54.00	-12.80	AV	Vertical
7236	46.17	6.48	36.27	44.60	44.32	74.00	-29.68	Pk	Vertical
7236	34.32	6.48	36.27	44.60	32.47	54.00	-21.53	AV	Vertical
4824	54.98	5.21	35.55	44.30	51.44	74.00	-22.56	Pk	Horizontal
4824	44.35	5.21	35.55	44.30	40.81	54.00	-13.19	AV	Horizontal
7236	45.61	6.48	36.27	44.52	43.84	74.00	-30.16	Pk	Horizontal
7236	33.97	6.48	36.27	44.52	32.20	54.00	-21.80	AV	Horizontal
Mid Channel (2437 MHz)(802.11 b)--Above 1G									
4874	56.27	5.21	35.66	44.20	52.94	74.00	-21.06	Pk	Vertical
4874	45.61	5.21	35.66	44.20	42.28	54.00	-11.72	AV	Vertical
7311	45.01	7.10	36.50	44.43	44.18	74.00	-29.82	Pk	Vertical
7311	34.53	7.10	36.50	44.43	33.70	54.00	-20.30	AV	Vertical
4875	56.63	5.21	35.66	44.20	53.30	74.00	-20.70	Pk	Horizontal
4875	45.68	5.21	35.66	44.20	42.35	54.00	-11.65	AV	Horizontal
7311	45.49	7.10	36.50	44.43	44.66	74.00	-29.34	Pk	Horizontal
7311	35.11	7.10	36.50	44.43	34.28	54.00	-19.72	AV	Horizontal
High Channel (2462 MHz)(802.11 b)--Above 1G									
4924	57.57	5.21	35.52	44.21	54.09	74.00	-19.91	Pk	Vertical
4924	45.43	5.21	35.52	44.21	41.95	54.00	-12.05	AV	Vertical
7386	47.44	7.10	36.53	44.60	46.47	74.00	-27.53	Pk	Vertical
7386	34.39	7.10	36.53	44.60	33.42	54.00	-20.58	AV	Vertical
4924	58.03	5.21	35.52	44.21	54.55	74.00	-19.45	Pk	Horizontal
4924	46.88	5.21	35.52	44.21	43.40	54.00	-10.60	AV	Horizontal
7386	44.52	7.10	36.53	44.60	43.55	74.00	-30.45	Pk	Horizontal
7386	34.82	7.10	36.53	44.60	33.85	54.00	-20.15	AV	Horizontal

Note:

- (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
- (2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (3)"802.11 b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

■ Spurious Emission in Restricted Band 2310MHz -18000MHz

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
802.11b									
2310.00	61.85	2.97	27.80	43.80	48.82	74	-25.18	Pk	Horizontal
2310.00	52.31	2.97	27.80	43.80	39.28	54	-14.72	AV	Horizontal
2310.00	61.95	2.97	27.80	43.80	48.92	74	-25.08	Pk	Vertical
2310.00	52.62	2.97	27.80	43.80	39.59	54	-14.41	AV	Vertical
2390.00	60.73	3.14	27.21	43.80	47.28	74	-26.72	Pk	Vertical
2390.00	51.60	3.14	27.21	43.80	38.15	54	-15.85	AV	Vertical
2390.00	62.32	3.14	27.21	43.80	48.87	74	-25.13	Pk	Horizontal
2390.00	52.31	3.14	27.21	43.80	38.86	54	-15.14	AV	Horizontal
2483.50	68.01	3.58	27.70	44.00	55.29	74	-18.71	Pk	Vertical
2483.50	57.81	3.58	27.70	44.00	45.09	54	-8.91	AV	Vertical
2483.50	68.42	3.58	27.70	44.00	55.70	74	-18.30	Pk	Horizontal
2483.50	59.42	3.58	27.70	44.00	46.70	54	-7.30	AV	Horizontal
2500.00	63.68	5.9	27.70	45.10	52.18	74	-21.82	Pk	Vertical
2500.00	55.43	5.9	27.70	45.10	43.93	54	-10.07	AV	Vertical
2500.00	66.71	5.9	27.70	45.10	55.21	74	-18.79	Pk	Horizontal
2500.00	57.45	5.9	27.70	45.10	45.95	54	-8.05	AV	Horizontal
802.11g									
2310.00	62.95	2.97	27.80	43.80	49.92	74	-24.08	Pk	Horizontal
2310.00	53.37	2.97	27.80	43.80	40.34	54	-13.66	AV	Horizontal
2310.00	62.30	2.97	27.80	43.80	49.27	74	-24.73	Pk	Vertical
2310.00	51.77	2.97	27.80	43.80	38.74	54	-15.26	AV	Vertical
2390.00	64.94	3.14	27.21	43.80	51.49	74	-22.51	Pk	Vertical
2390.00	54.46	3.14	27.21	43.80	41.01	54	-12.99	AV	Vertical
2390.00	63.35	3.14	27.21	43.80	49.90	74	-24.10	Pk	Horizontal
2390.00	53.62	3.14	27.21	43.80	40.17	54	-13.83	AV	Horizontal
2483.50	68.71	3.58	27.70	44.00	55.99	74	-18.01	Pk	Vertical
2483.50	57.84	3.58	27.70	44.00	45.12	54	-8.88	AV	Vertical
2483.50	67.53	3.58	27.70	44.00	54.81	74	-19.19	Pk	Horizontal
2483.50	57.12	3.58	27.70	44.00	44.40	54	-9.60	AV	Horizontal
2500.00	65.47	5.9	27.70	45.10	53.97	74	-20.03	Pk	Vertical
2500.00	56.18	5.9	27.70	45.10	44.68	54	-9.32	AV	Vertical
2500.00	65.59	5.9	27.70	45.10	54.09	74	-19.91	Pk	Horizontal
2500.00	55.72	5.9	27.70	45.10	44.22	54	-9.78	AV	Horizontal
802.11n20									
2310.00	62.66	2.97	27.80	43.80	49.63	74	-24.37	Pk	Horizontal
2310.00	51.82	2.97	27.80	43.80	38.79	54	-15.21	AV	Horizontal
2310.00	62.31	2.97	27.80	43.80	49.28	74	-24.72	Pk	Vertical
2310.00	51.58	2.97	27.80	43.80	38.55	54	-15.45	AV	Vertical
2390.00	64.47	3.14	27.21	43.80	51.02	74	-22.98	Pk	Vertical
2390.00	54.72	3.14	27.21	43.80	41.27	54	-12.73	AV	Vertical
2390.00	63.79	3.14	27.21	43.80	50.34	74	-23.66	Pk	Horizontal

2390.00	54.39	3.14	27.21	43.80	40.94	54	-13.06	AV	Horizontal
2483.50	68.17	3.58	27.70	44.00	55.45	74	-18.55	Pk	Vertical
2483.50	58.06	3.58	27.70	44.00	45.34	54	-8.66	AV	Vertical
2483.50	67.25	3.58	27.70	44.00	54.53	74	-19.47	Pk	Horizontal
2483.50	57.15	3.58	27.70	44.00	44.43	54	-9.57	AV	Horizontal
2500.00	65.38	5.9	27.70	45.10	53.88	74	-20.12	Pk	Vertical
2500.00	53.99	5.9	27.70	45.10	42.49	54	-11.51	AV	Vertical
2500.00	65.93	5.9	27.70	45.10	54.43	74	-19.57	Pk	Horizontal
2500.00	53.29	5.9	27.70	45.10	41.79	54	-12.21	AV	Horizontal
802.11n40									
2310.00	61.75	2.97	27.80	43.80	48.72	74	-25.28	Pk	Horizontal
2310.00	52.87	2.97	27.80	43.80	39.84	54	-14.16	AV	Horizontal
2310.00	61.24	2.97	27.80	43.80	48.21	74	-25.79	Pk	Vertical
2310.00	51.50	2.97	27.80	43.80	38.47	54	-15.53	AV	Vertical
2390.00	64.58	3.14	27.21	43.80	51.13	74	-22.87	Pk	Vertical
2390.00	54.94	3.14	27.21	43.80	41.49	54	-12.51	AV	Vertical
2390.00	63.78	3.14	27.21	43.80	50.33	74	-23.67	Pk	Horizontal
2390.00	53.03	3.14	27.21	43.80	39.58	54	-14.42	AV	Horizontal
2483.50	67.75	3.58	27.70	44.00	55.03	74	-18.97	Pk	Vertical
2483.50	57.10	3.58	27.70	44.00	44.38	54	-9.62	AV	Vertical
2483.50	67.97	3.58	27.70	44.00	55.25	74	-18.75	Pk	Horizontal
2483.50	56.65	3.58	27.70	44.00	43.93	54	-10.07	AV	Horizontal
2500.00	64.37	5.9	27.70	45.10	52.87	74	-21.13	Pk	Vertical
2500.00	53.21	5.9	27.70	45.10	41.71	54	-12.29	AV	Vertical
2500.00	64.13	5.9	27.70	45.10	52.63	74	-21.37	Pk	Horizontal
2500.00	53.57	5.9	27.70	45.10	42.07	54	-11.93	AV	Horizontal
802.11ax20									
2310.00	64.17	2.97	27.80	43.80	51.14	74	-22.86	Pk	Horizontal
2310.00	53.58	2.97	27.80	43.80	40.55	54	-13.45	AV	Horizontal
2310.00	64.72	2.97	27.80	43.80	51.69	74	-22.31	Pk	Vertical
2310.00	55.25	2.97	27.80	43.80	42.22	54	-11.78	AV	Vertical
2390.00	66.22	3.14	27.21	43.80	52.77	74	-21.23	Pk	Vertical
2390.00	56.82	3.14	27.21	43.80	43.37	54	-10.63	AV	Vertical
2390.00	65.60	3.14	27.21	43.80	52.15	74	-21.85	Pk	Horizontal
2390.00	55.26	3.14	27.21	43.80	41.81	54	-12.19	AV	Horizontal
2483.50	70.05	3.58	27.70	44.00	57.33	74	-16.67	Pk	Vertical
2483.50	59.01	3.58	27.70	44.00	46.29	54	-7.71	AV	Vertical
2483.50	70.00	3.58	27.70	44.00	57.28	74	-16.72	Pk	Horizontal
2483.50	60.27	3.58	27.70	44.00	47.55	54	-6.45	AV	Horizontal
2500.00	62.17	5.9	27.70	45.10	50.67	74	-23.33	Pk	Vertical
2500.00	51.02	5.9	27.70	45.10	39.52	54	-14.48	AV	Vertical
2500.00	63.86	5.9	27.70	45.10	52.36	74	-21.64	Pk	Horizontal
2500.00	52.68	5.9	27.70	45.10	41.18	54	-12.82	AV	Horizontal

802.11ax40									
2310.00	63.41	2.97	27.80	43.80	50.38	74	-23.62	Pk	Horizontal
2310.00	53.84	2.97	27.80	43.80	40.81	54	-13.19	AV	Horizontal
2310.00	65.04	2.97	27.80	43.80	52.01	74	-21.99	Pk	Vertical
2310.00	53.00	2.97	27.80	43.80	39.97	54	-14.03	AV	Vertical
2390.00	65.68	3.14	27.21	43.80	52.23	74	-21.77	Pk	Vertical
2390.00	56.79	3.14	27.21	43.80	43.34	54	-10.66	AV	Vertical
2390.00	66.05	3.14	27.21	43.80	52.60	74	-21.40	Pk	Horizontal
2390.00	55.87	3.14	27.21	43.80	42.42	54	-11.58	AV	Horizontal
2483.50	69.61	3.58	27.70	44.00	56.89	74	-17.11	Pk	Vertical
2483.50	60.24	3.58	27.70	44.00	47.52	54	-6.48	AV	Vertical
2483.50	68.84	3.58	27.70	44.00	56.12	74	-17.88	Pk	Horizontal
2483.50	60.45	3.58	27.70	44.00	47.73	54	-6.27	AV	Horizontal
2500.00	62.92	5.9	27.70	45.10	51.42	74	-22.58	Pk	Vertical
2500.00	50.77	5.9	27.70	45.10	39.27	54	-14.73	AV	Vertical
2500.00	61.42	5.9	27.70	45.10	49.92	74	-24.08	Pk	Horizontal
2500.00	50.62	5.9	27.70	45.10	39.12	54	-14.88	AV	Horizontal

Spurious Emission in Restricted Bands 3260MHz- 18000MHz

All the modulation modes have been tested, the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3260	60.18	4.04	29.57	44.70	49.09	74	-24.91	Pk	Vertical
3260	50.16	4.04	29.57	44.70	39.07	54	-14.93	AV	Vertical
3260	61.45	4.04	29.57	44.70	50.36	74	-23.64	Pk	Horizontal
3260	50.34	4.04	29.57	44.70	39.25	54	-14.75	AV	Horizontal
3332	61.22	4.26	29.87	44.40	50.95	74	-23.05	Pk	Vertical
3332	50.61	4.26	29.87	44.40	40.34	54	-13.66	AV	Vertical
3332	62.47	4.26	29.87	44.40	52.20	74	-21.80	Pk	Horizontal
3332	52.44	4.26	29.87	44.40	42.17	54	-11.83	AV	Horizontal
17797	43.43	10.99	43.95	43.50	54.87	74	-19.13	Pk	Vertical
17797	32.28	10.99	43.95	43.50	43.72	54	-10.28	AV	Vertical
17788	43.50	11.81	43.69	44.60	54.40	74	-19.60	Pk	Horizontal
17788	31.27	11.81	43.69	44.60	42.17	54	-11.83	AV	Horizontal

"802.11 b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW = 100KHz

VBW $\geq 3 \times$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Kieron Luo

Test data reference attachment.

7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW $\geq$ RBW. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

Measure T_{total} and T_{on}

Calculate Duty Cycle = T_{on} / T_{total}

7.4.6 Test Results

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Kieron Luo

Test data reference attachment.

7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

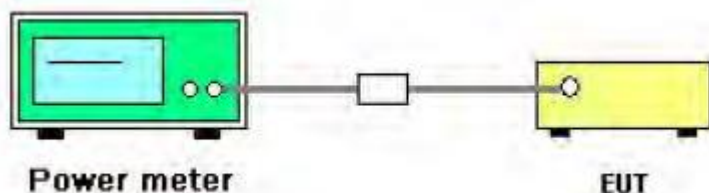
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	PK

7.5.4 Test Setup



7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.9.2.3.2 of ANSI C63.10

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.

7.5.7 Test Results

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Kieron Luo

Note: For 802.11n/ax has MIMO mode.

Directional gain=5.83<6.0 dBi so power limit don't need to change

Test data reference attachment.

7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Sub clause 11.10.5 of ANSI C63.10

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

- a) Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
- b) Set instrument center frequency to DTS channel center frequency.
- c) Set span to at least 1.5 times the OBW.
- d) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- e) Set VBW $\geq [3 \times \text{RBW}]$.
- f) Detector = power averaging (rms) or sample detector (when rms not available).
- g) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- h) Sweep time = auto couple.
- i) Do not use sweep triggering; allow sweep to "free run."
- j) Employ trace averaging (rms) mode over a minimum of 100 traces.
- k) Use the peak marker function to determine the maximum amplitude level.
- l) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- m) If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

7.6.6 Test Results

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Kieron Luo

Note: For 802.11n/ax has MIMO mode.

Directional gain=5.83<6.0 dBi so power limit don't need to change

Test data reference attachment.

7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Notebook	Model No.:	ZERO 16 Pro
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Kieron Luo

Test data reference attachment.

7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.

7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

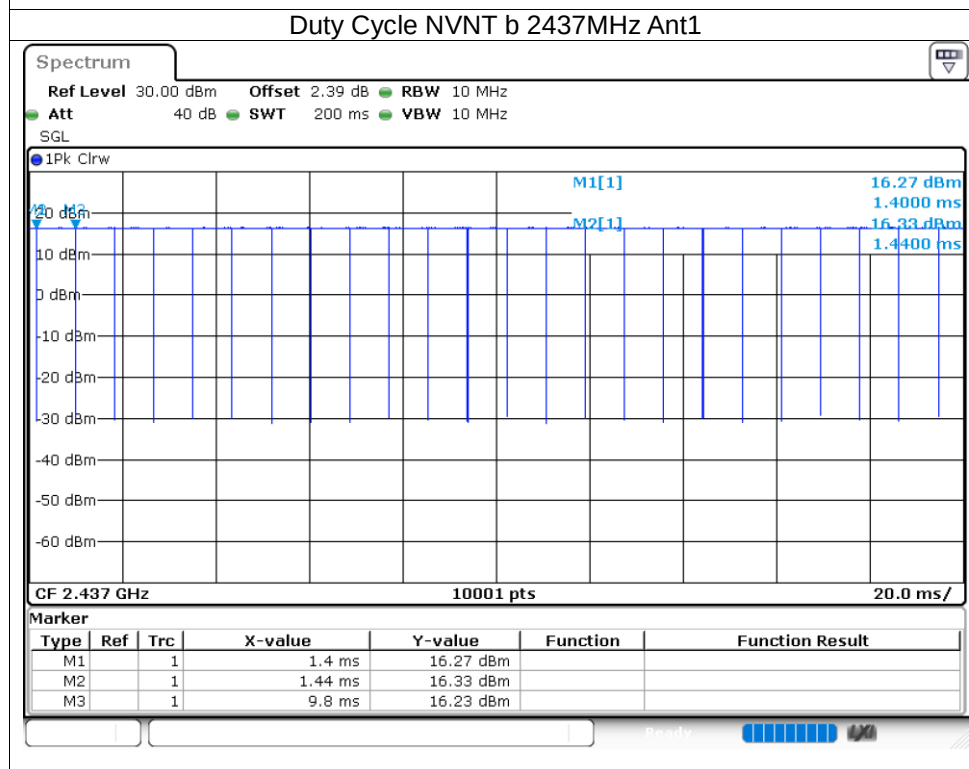
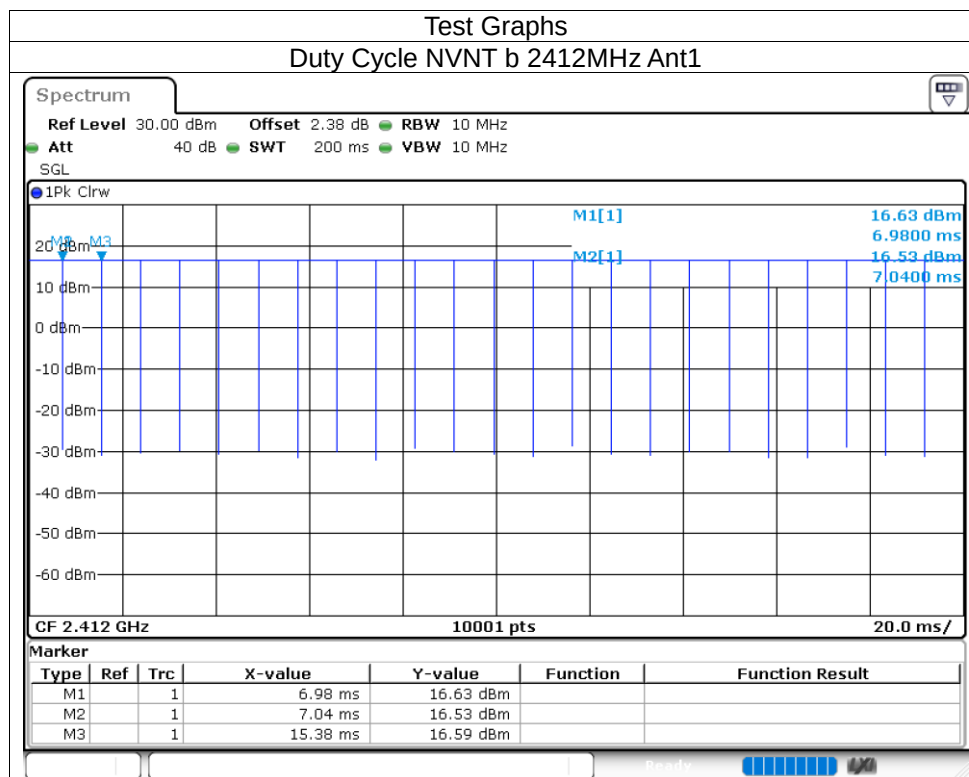
The EUT antenna is permanent attached PIFA Antenna. It comply with the standard requirement.

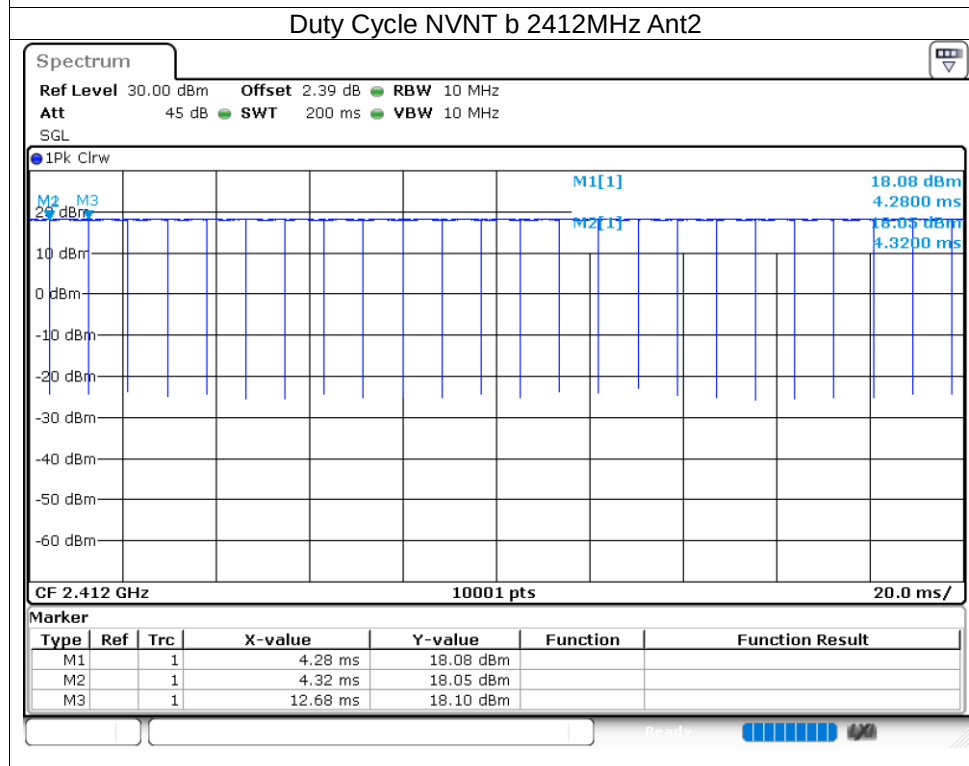
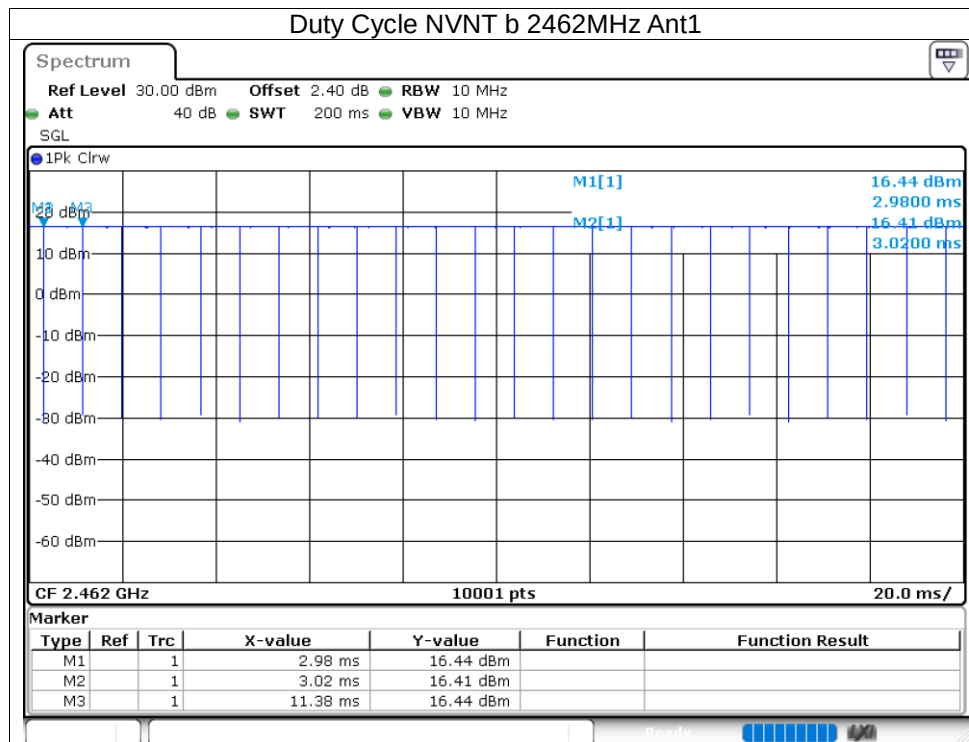
8 TEST RESULTS

8.1 2.4G WIFI SISO

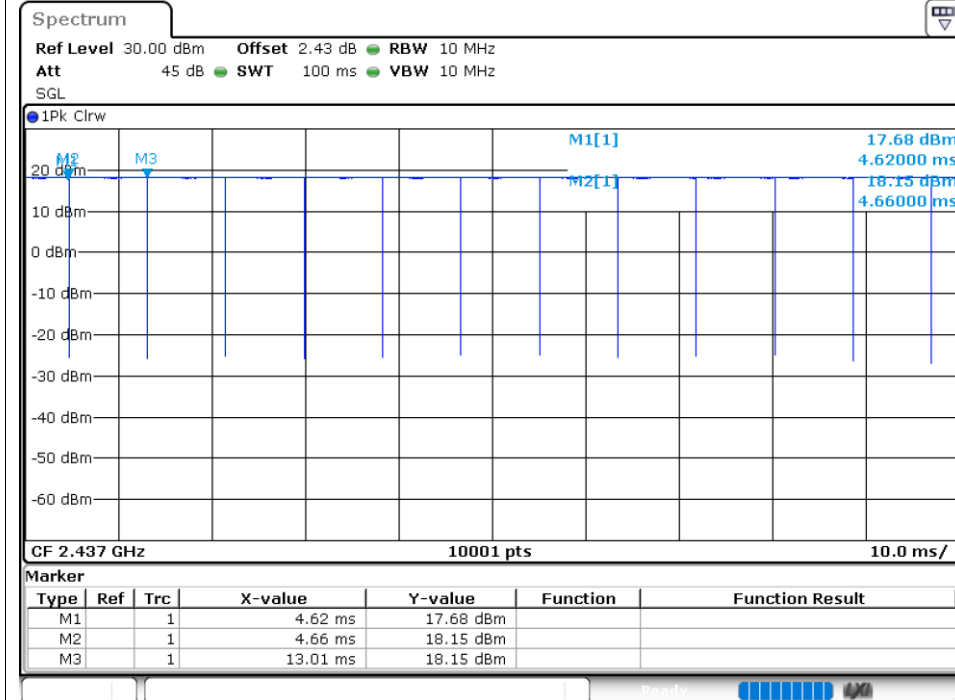
8.1.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.72	0.01	0.12
NVNT	b	2437	Ant1	99.7	0.01	0.12
NVNT	b	2462	Ant1	99.71	0.01	0.12
NVNT	b	2412	Ant2	99.71	0.01	0.12
NVNT	b	2437	Ant2	99.58	0.02	0.12
NVNT	b	2462	Ant2	99.58	0.02	0.12
NVNT	g	2412	Ant1	98.26	0.08	0.48
NVNT	g	2437	Ant1	98.3	0.07	0.48
NVNT	g	2462	Ant1	98.21	0.08	0.48
NVNT	g	2412	Ant2	98.22	0.08	0.48
NVNT	g	2437	Ant2	98.18	0.08	0.48
NVNT	g	2462	Ant2	98.23	0.08	0.48
NVNT	n20	2412	Ant1	99.07	0.04	0.25
NVNT	n20	2437	Ant1	99.08	0.04	0.25
NVNT	n20	2462	Ant1	99.08	0.04	0.25
NVNT	n20	2412	Ant2	99.05	0.04	0.25
NVNT	n20	2437	Ant2	99.08	0.04	0.25
NVNT	n20	2462	Ant2	99.06	0.04	0.25
NVNT	n40	2422	Ant1	99.02	0.04	0.25
NVNT	n40	2437	Ant1	99	0.04	0.25
NVNT	n40	2452	Ant1	99.18	0.04	0.25
NVNT	n40	2422	Ant2	99	0.04	0.25
NVNT	n40	2437	Ant2	99.08	0.04	0.25
NVNT	n40	2452	Ant2	99.08	0.04	0.25
NVNT	ax20	2412	Ant1	99.05	0.04	0.25
NVNT	ax20	2437	Ant1	99.19	0.04	0.25
NVNT	ax20	2462	Ant1	99.03	0.04	0.25
NVNT	ax20	2412	Ant2	99.05	0.04	0.25
NVNT	ax20	2437	Ant2	99.06	0.04	0.25
NVNT	ax20	2462	Ant2	99.05	0.04	0.25
NVNT	ax40	2422	Ant1	99.04	0.04	0.25
NVNT	ax40	2437	Ant1	99.01	0.04	0.25
NVNT	ax40	2452	Ant1	99.04	0.04	0.25
NVNT	ax40	2422	Ant2	99.03	0.04	0.25
NVNT	ax40	2437	Ant2	99.04	0.04	0.25
NVNT	ax40	2452	Ant2	99.07	0.04	0.25

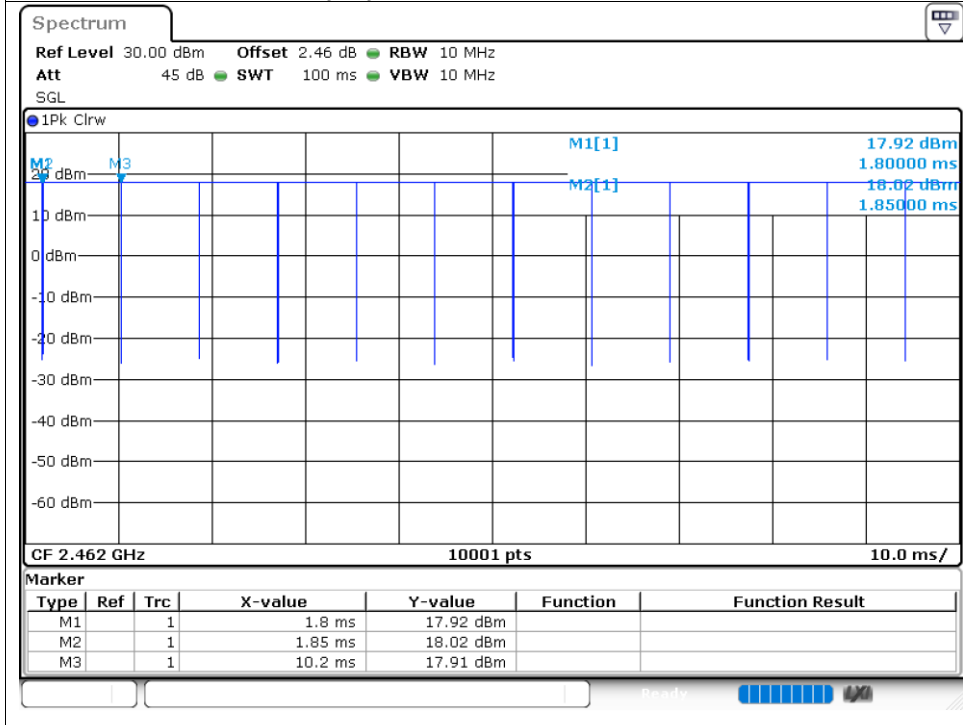




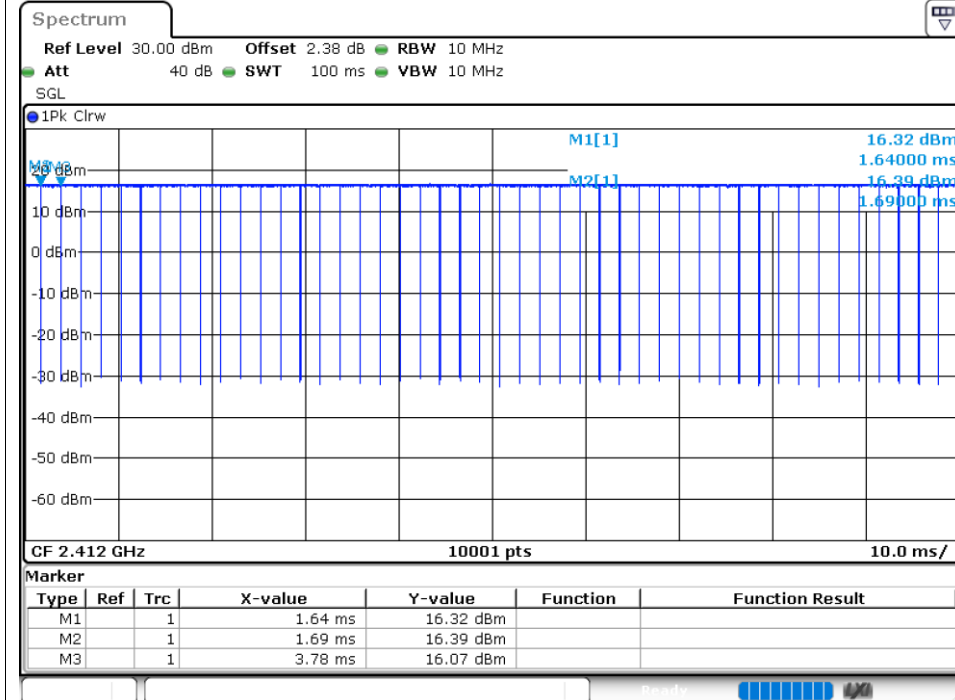
Duty Cycle NVNT b 2437MHz Ant2



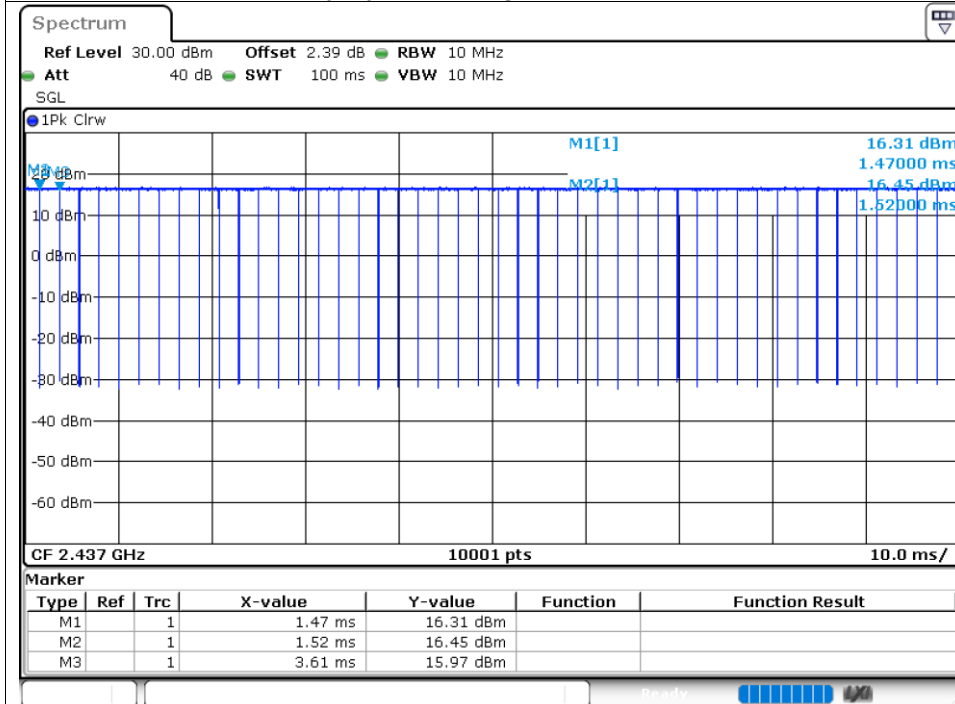
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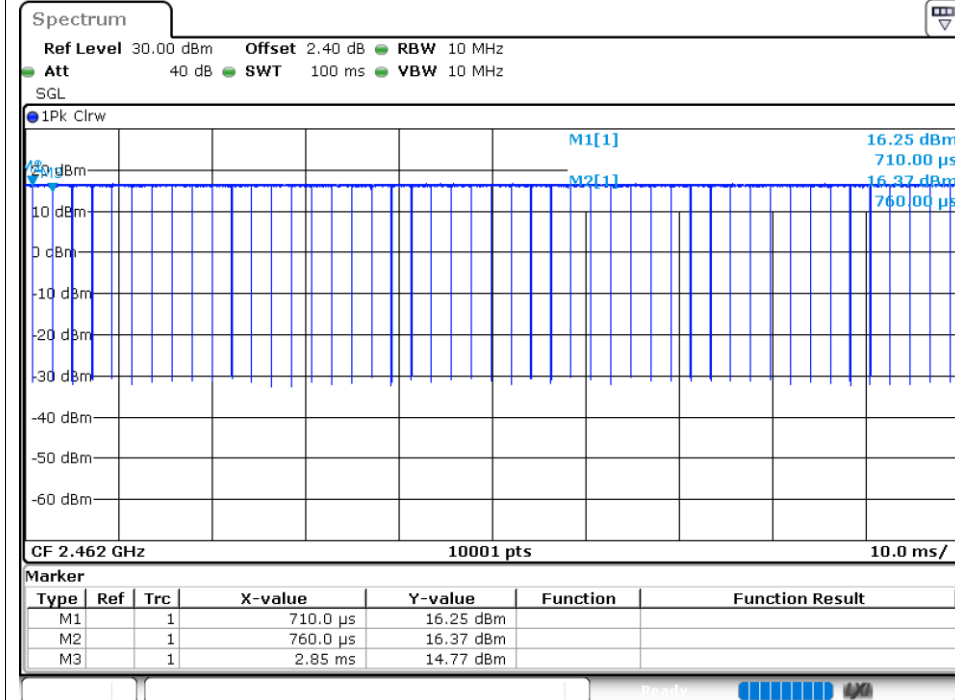
Duty Cycle NVNT g 2412MHz Ant1



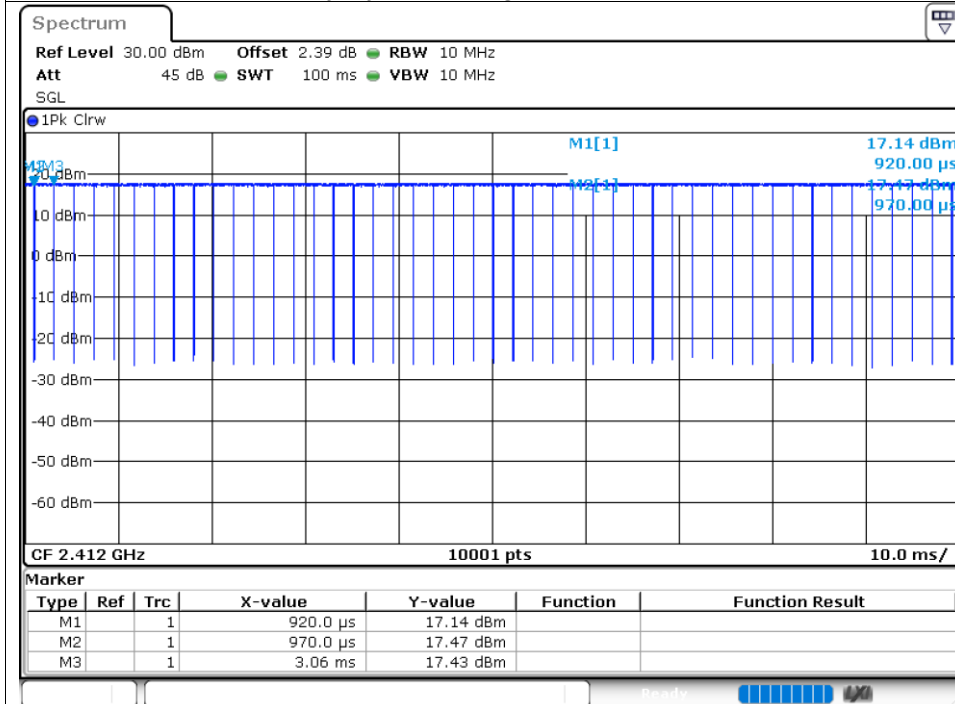
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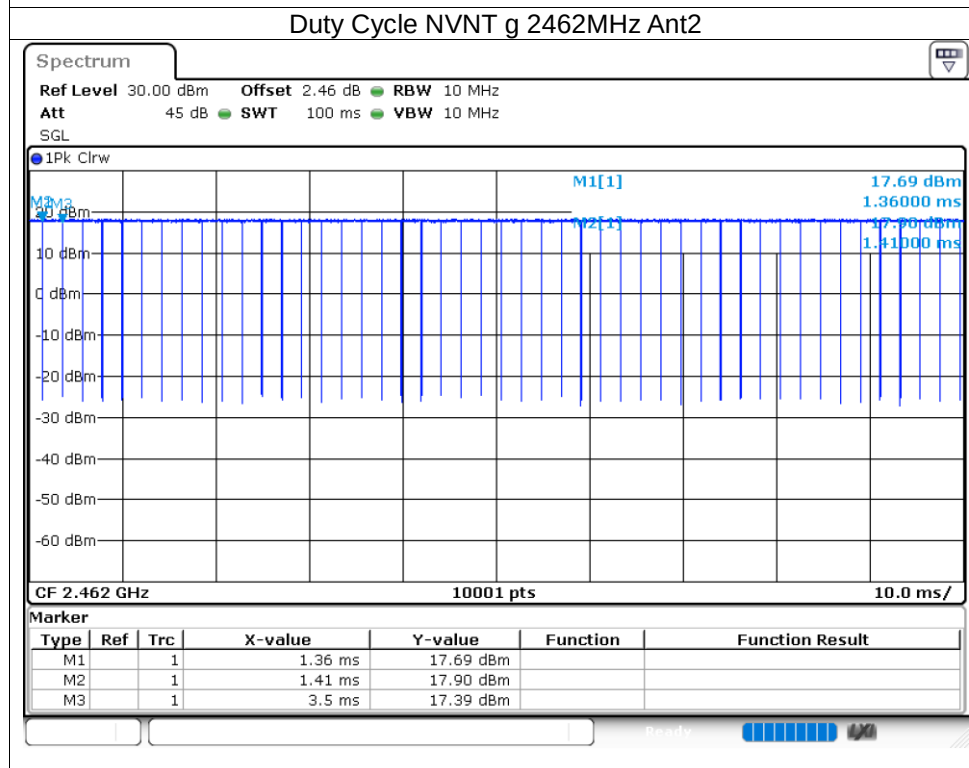
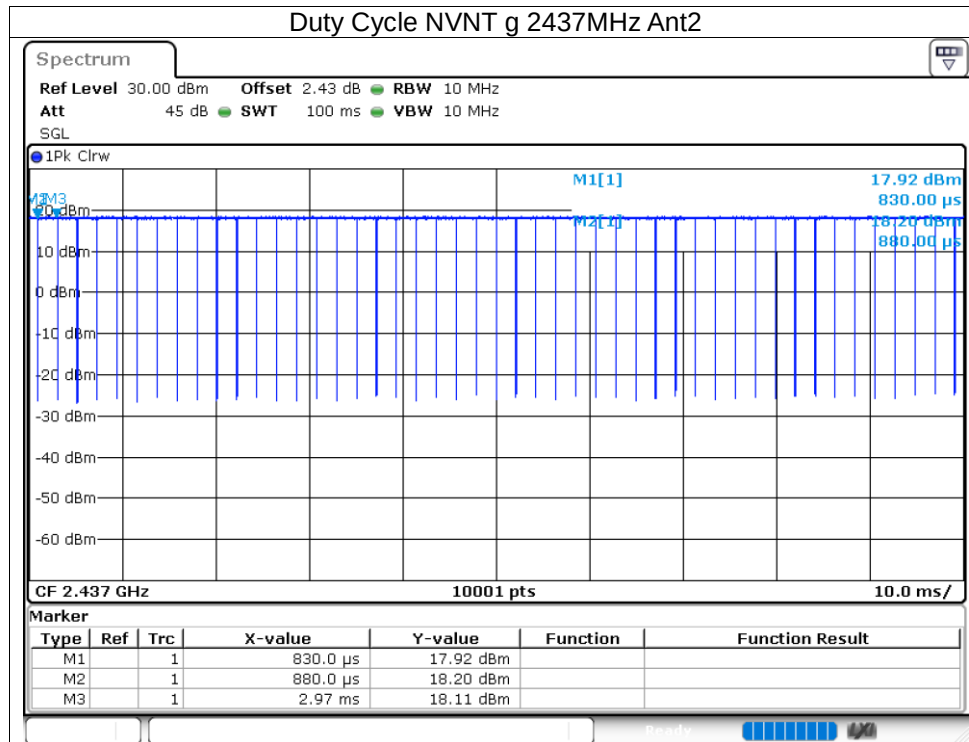


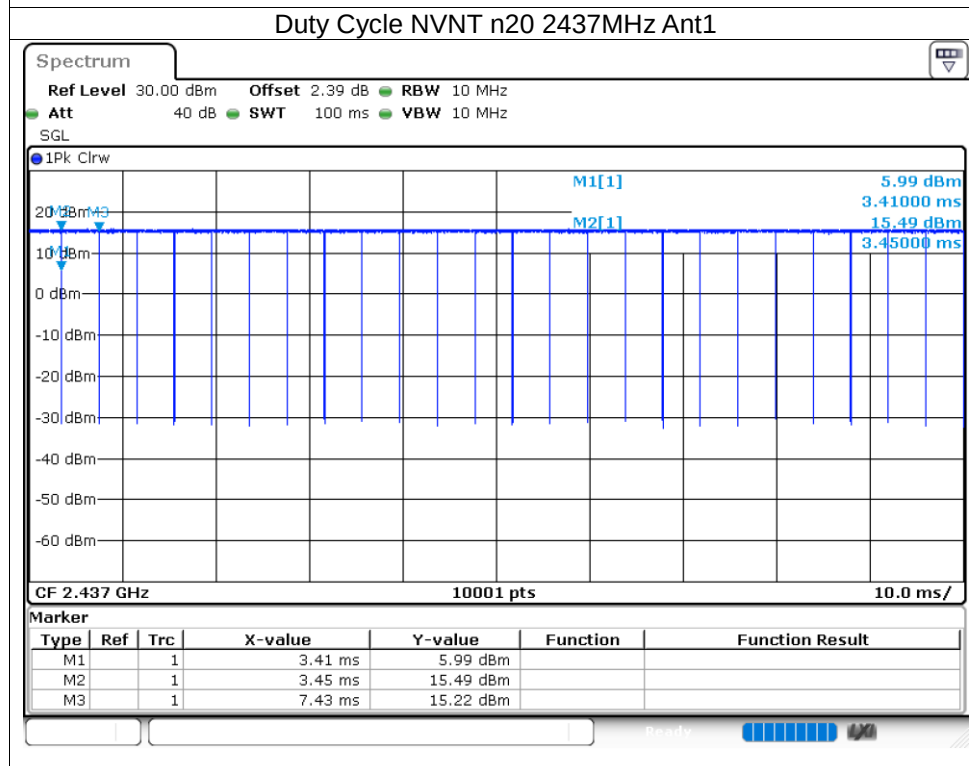
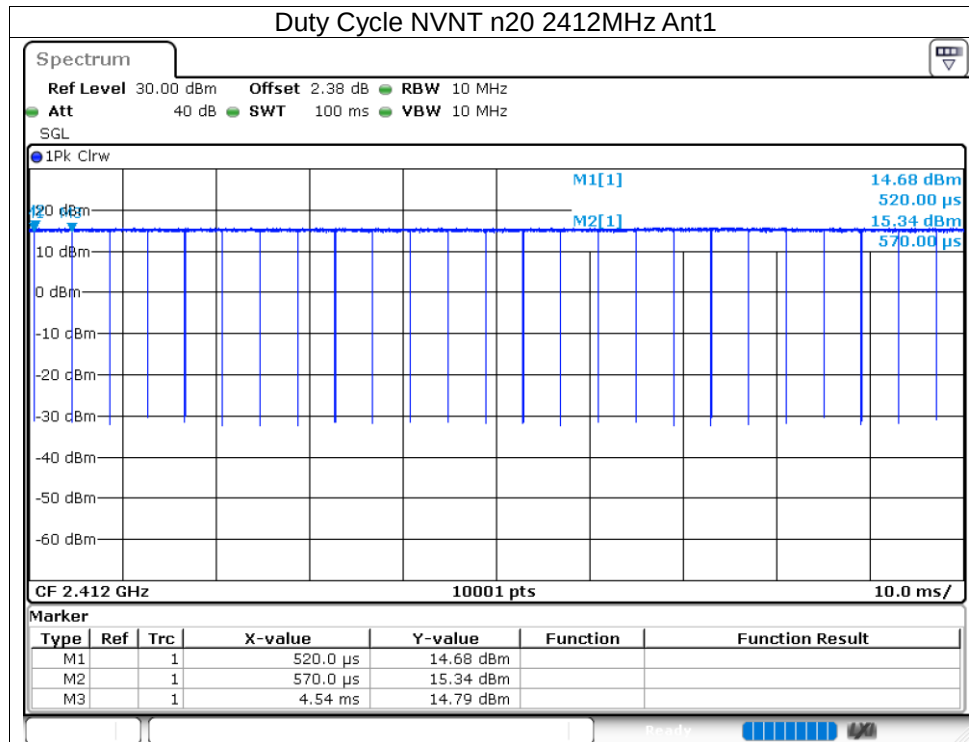
Duty Cycle NVNT g 2462MHz Ant1



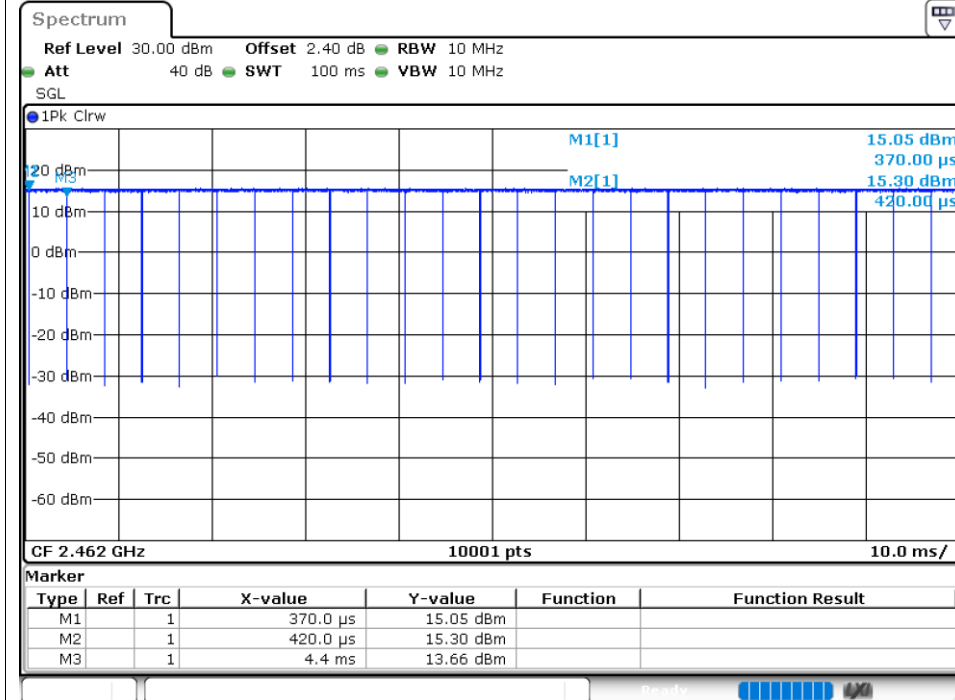
Duty Cycle NVNT g 2412MHz Ant2



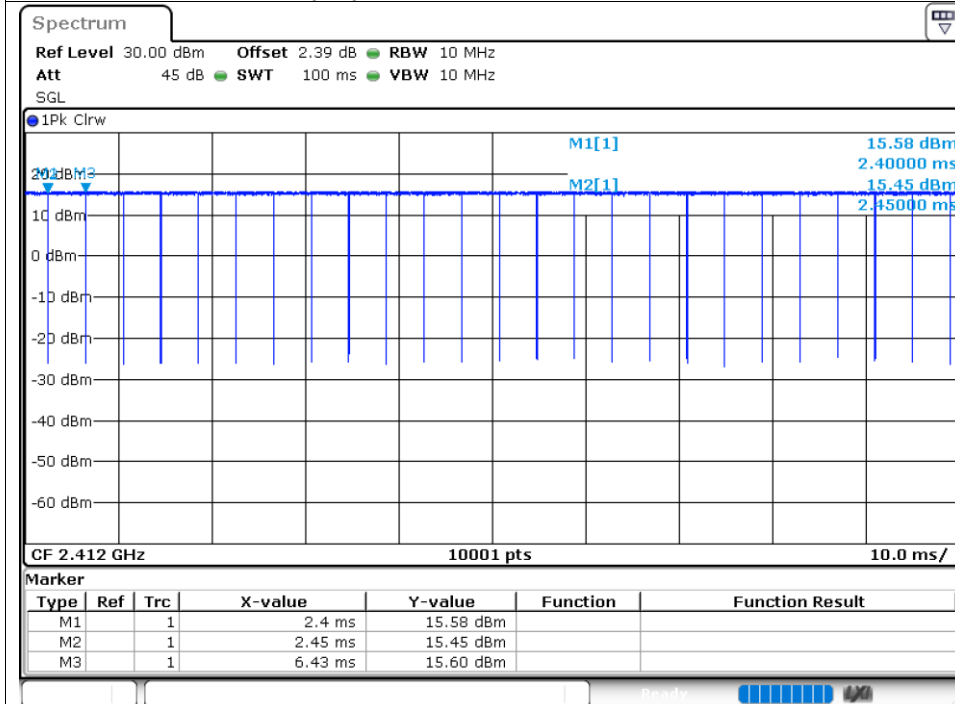




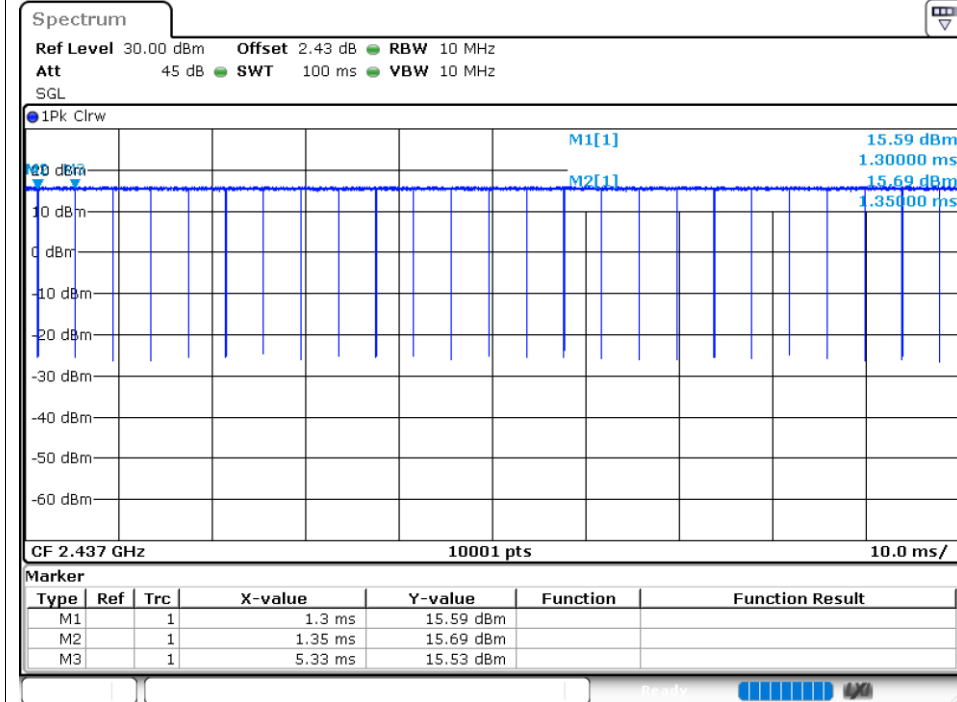
Duty Cycle NVNT n20 2462MHz Ant1



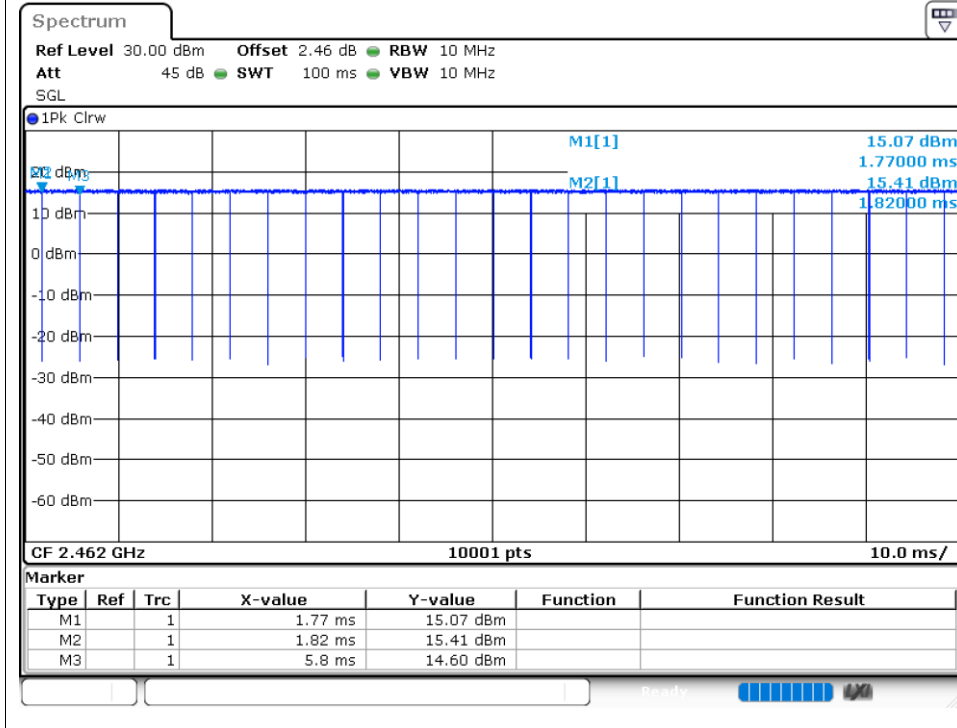
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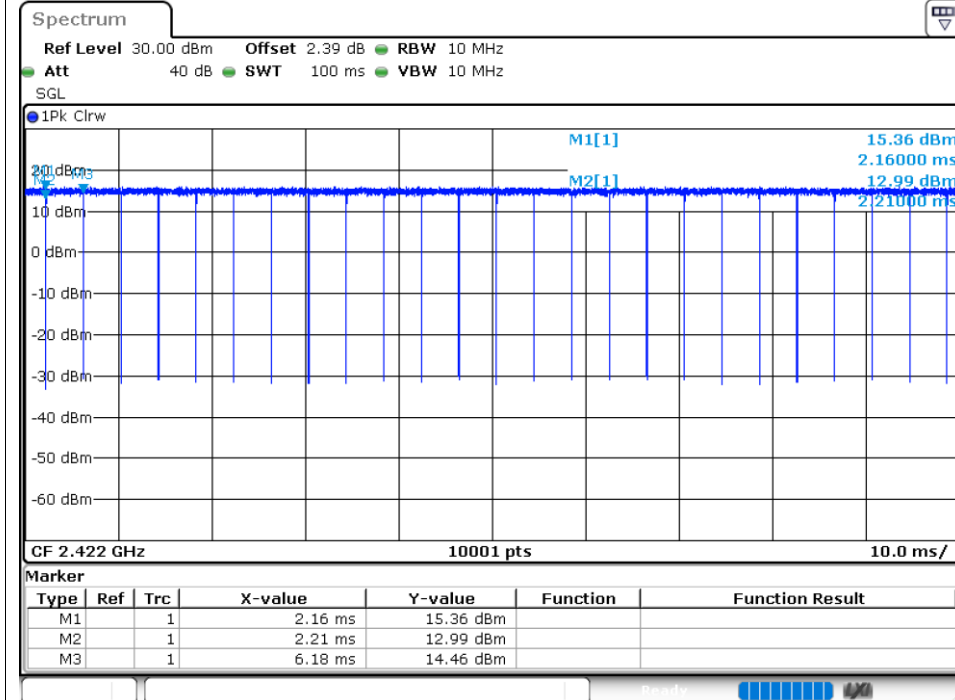
Duty Cycle NVNT n20 2437MHz Ant2



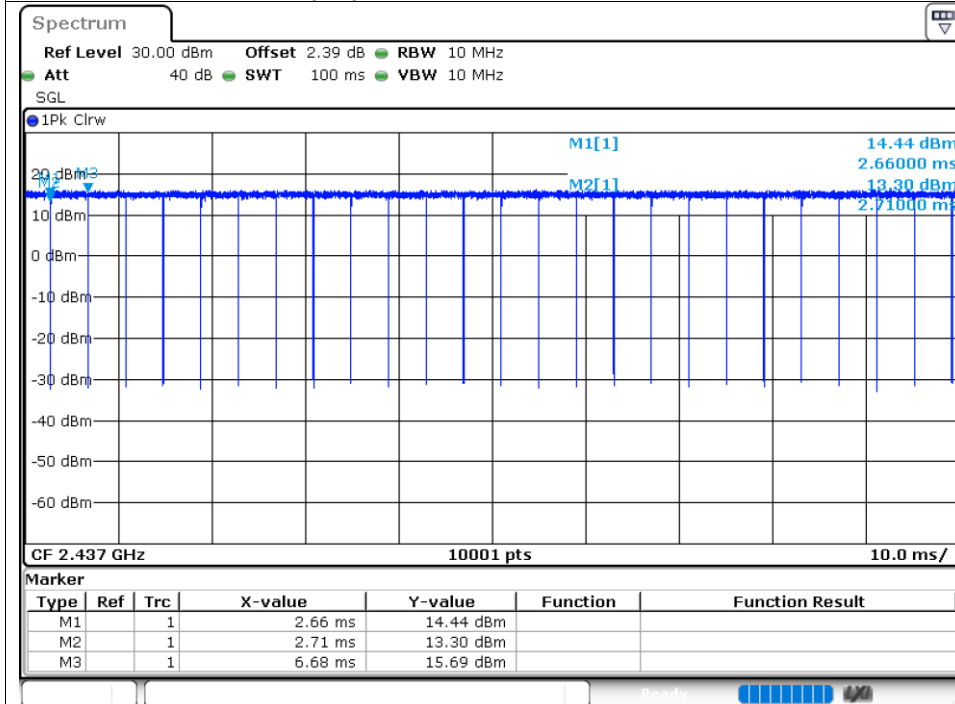
Duty Cycle NVNT n20 2462MHz Ant2



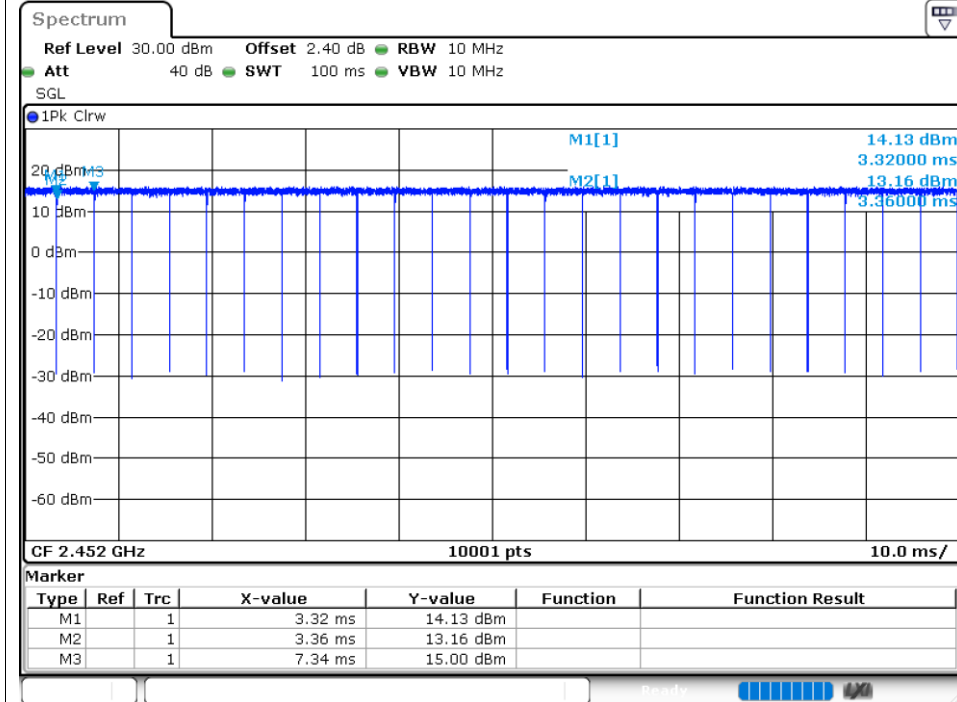
Duty Cycle NVNT n40 2422MHz Ant1



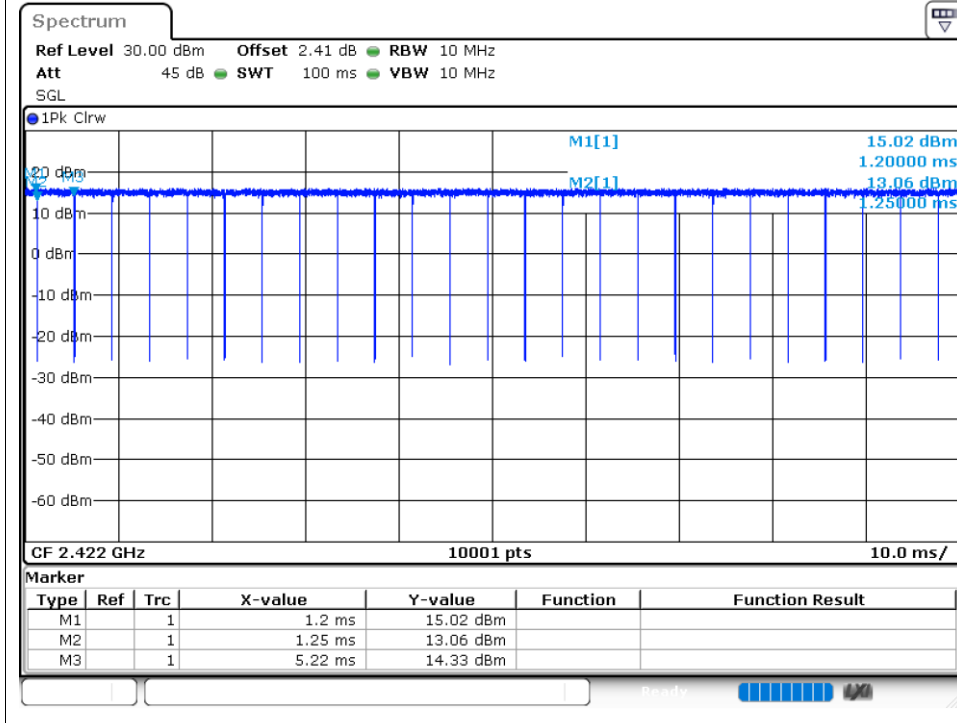
Duty Cycle NVNT n40 2437MHz Ant1



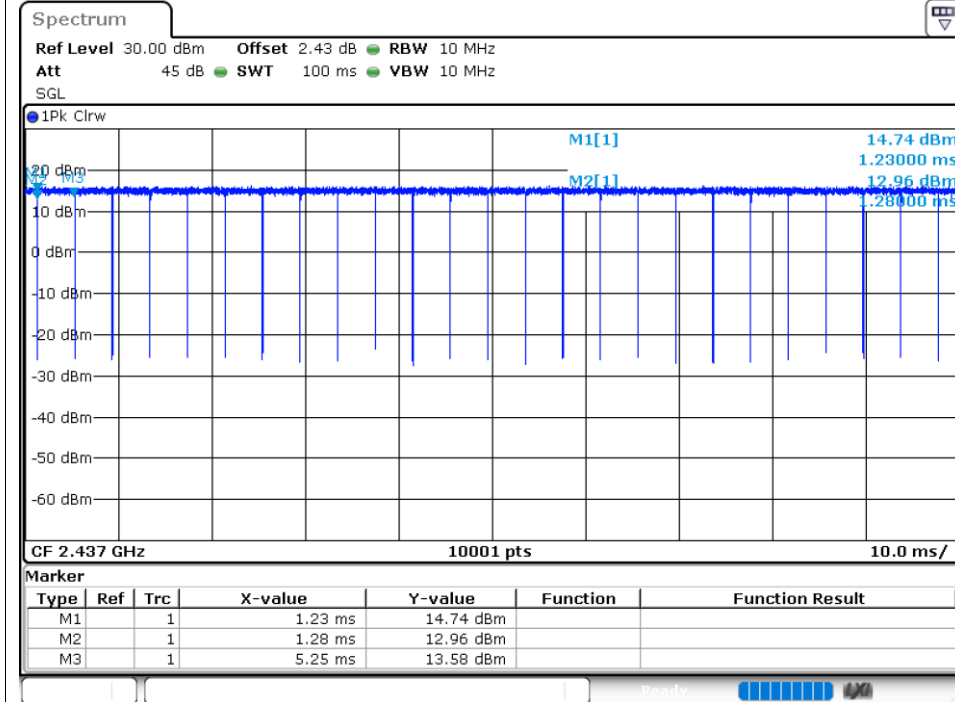
Duty Cycle NVNT n40 2452MHz Ant1



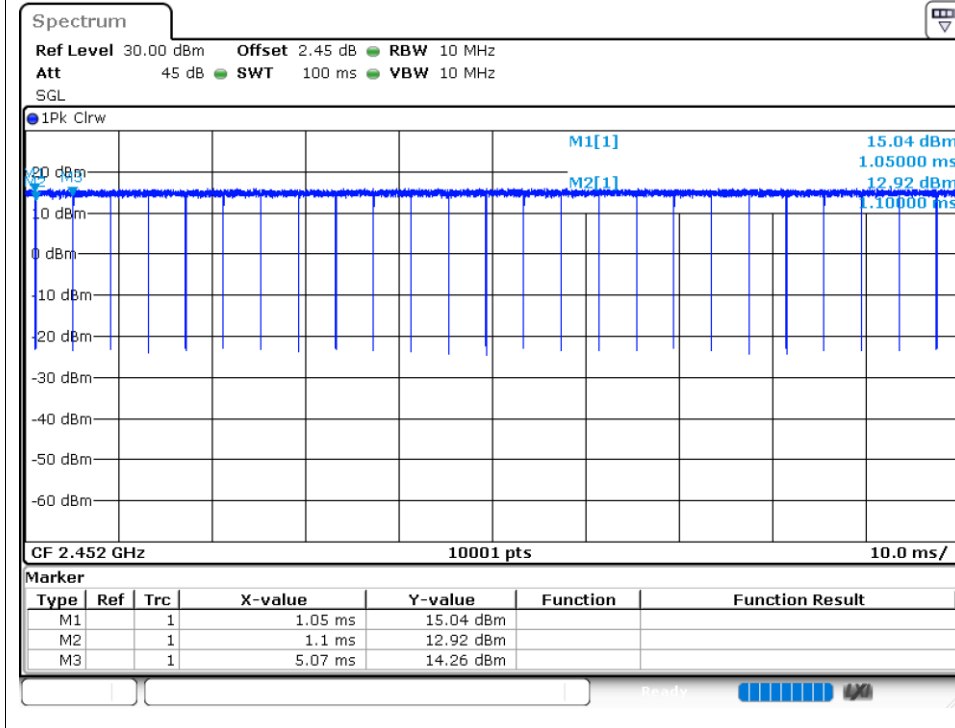
Duty Cycle NVNT n40 2422MHz Ant2



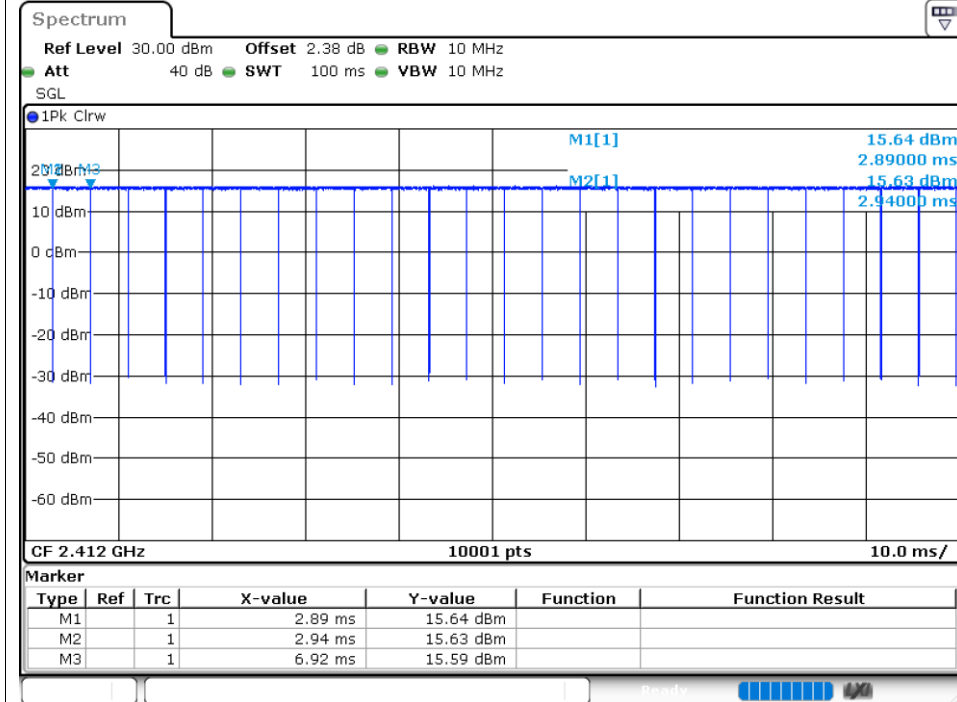
Duty Cycle NVNT n40 2437MHz Ant2



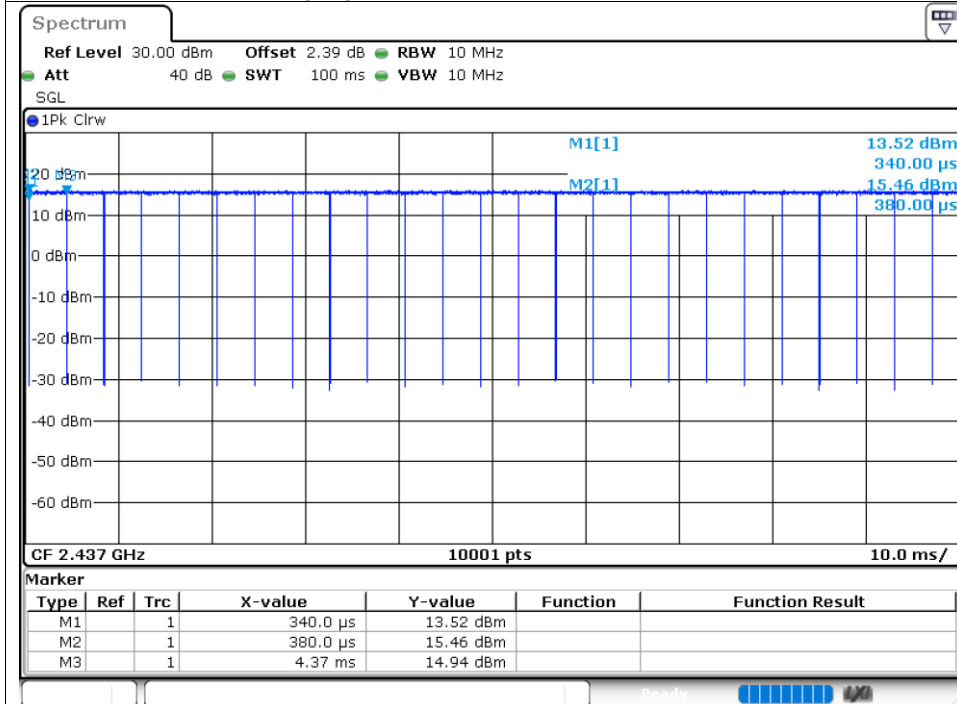
Duty Cycle NVNT n40 2452MHz Ant2

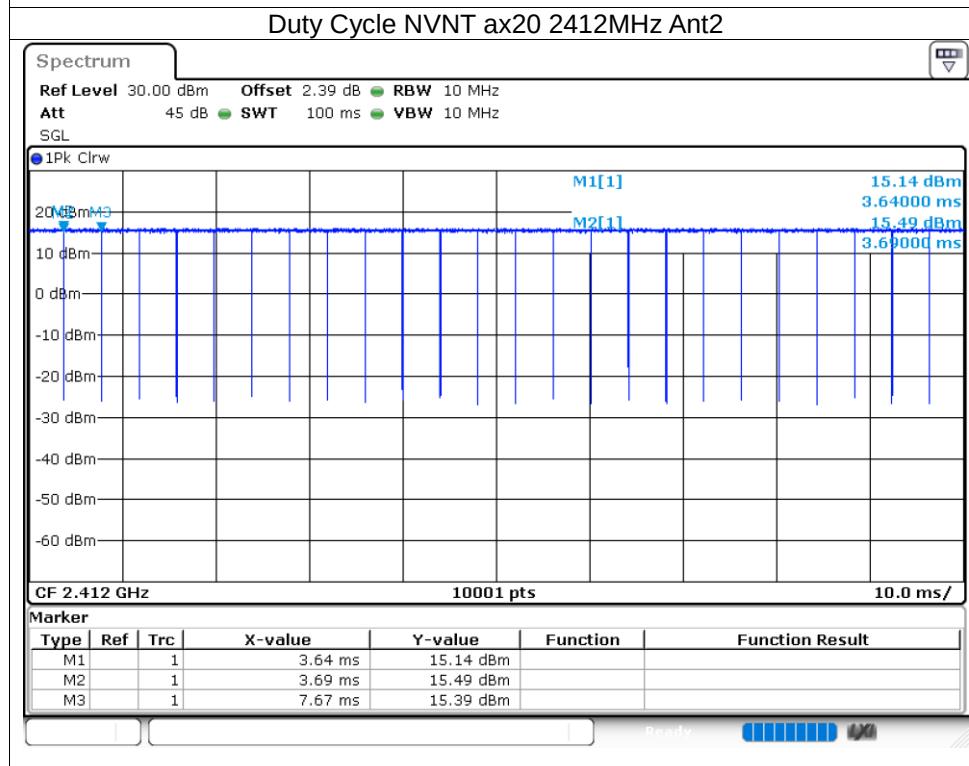
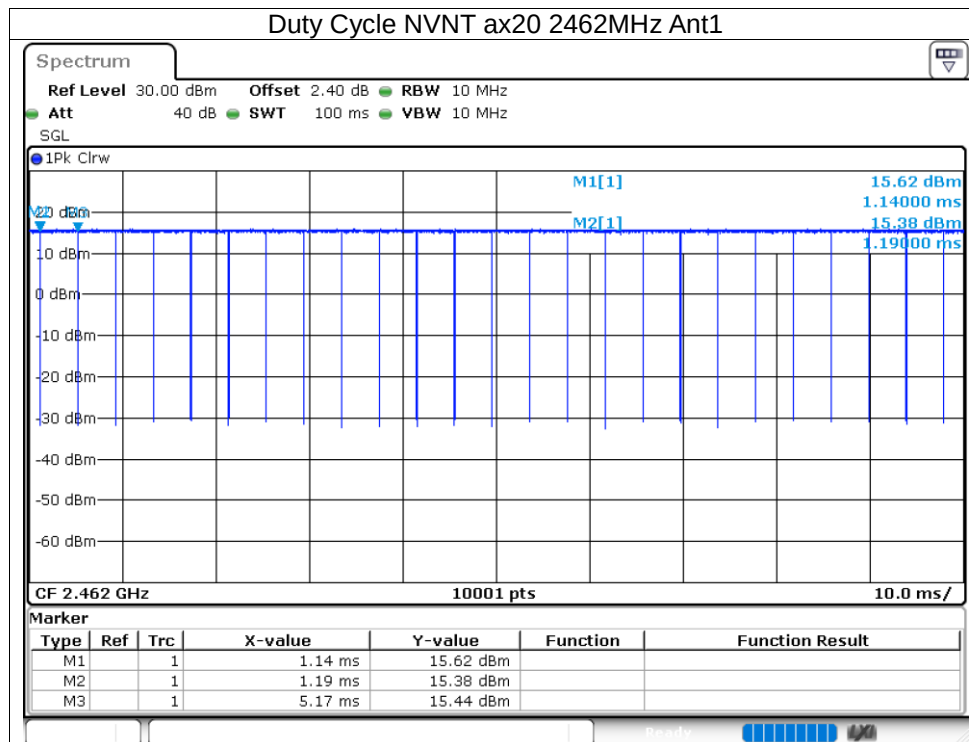


Duty Cycle NVNT ax20 2412MHz Ant1

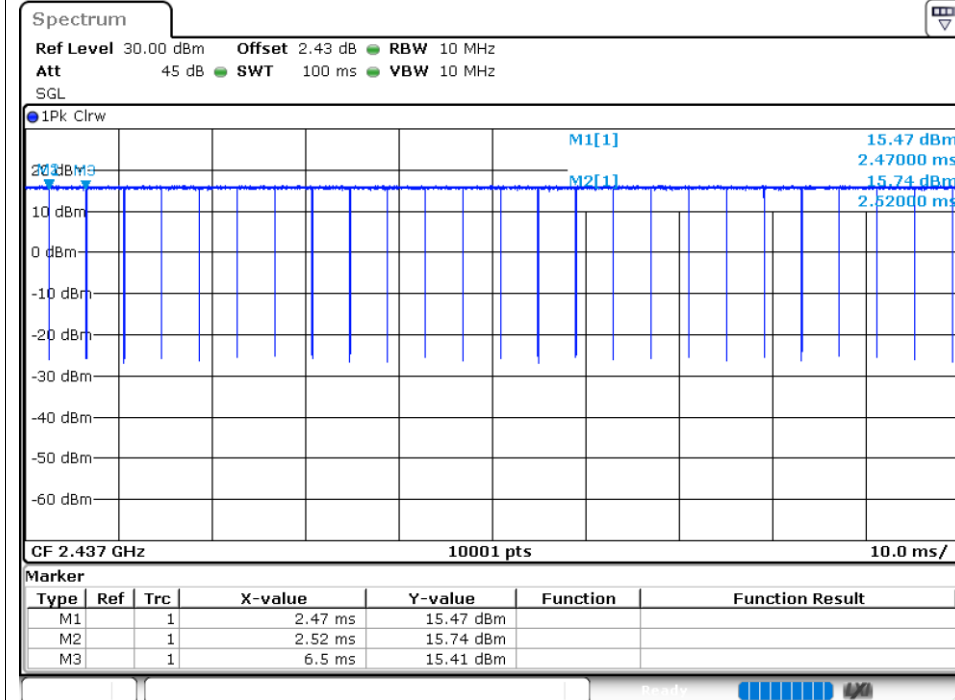


Duty Cycle NVNT ax20 2437MHz Ant1

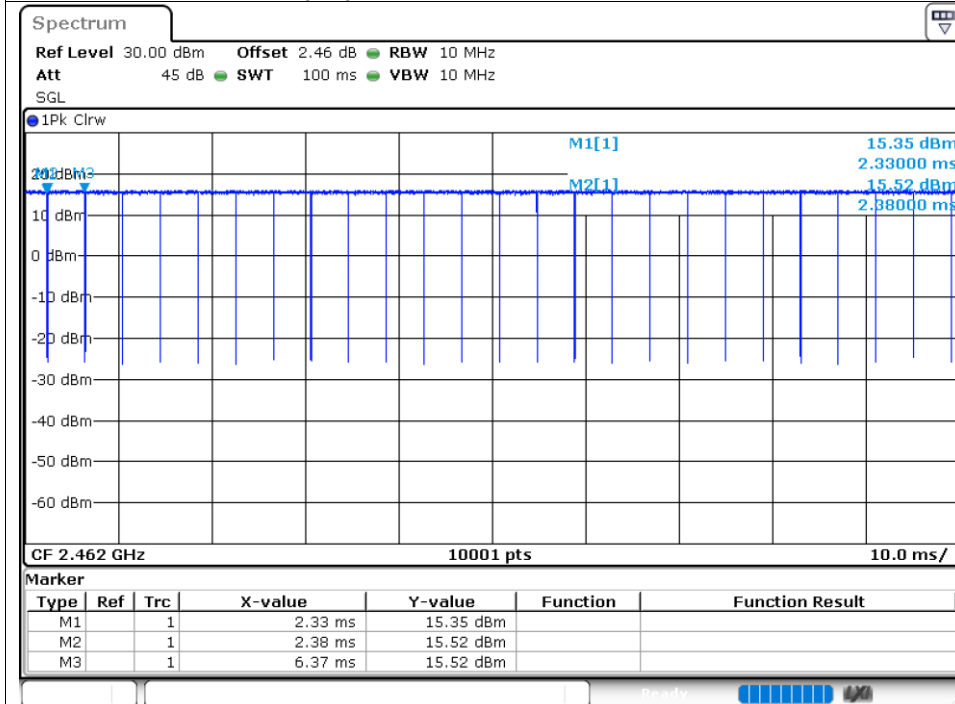


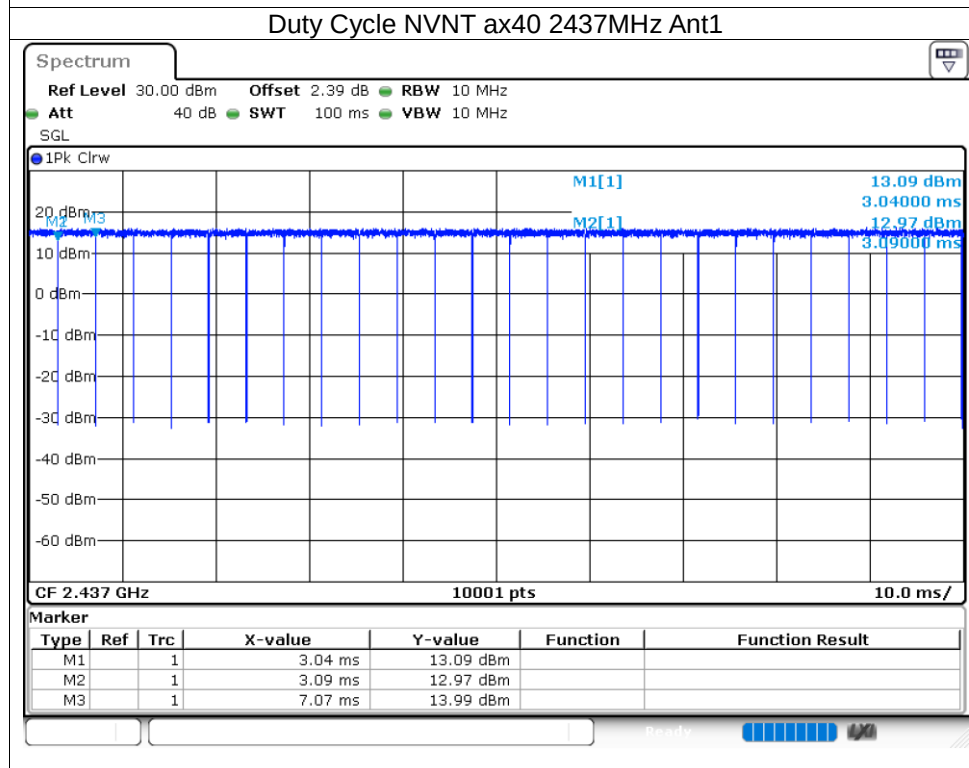
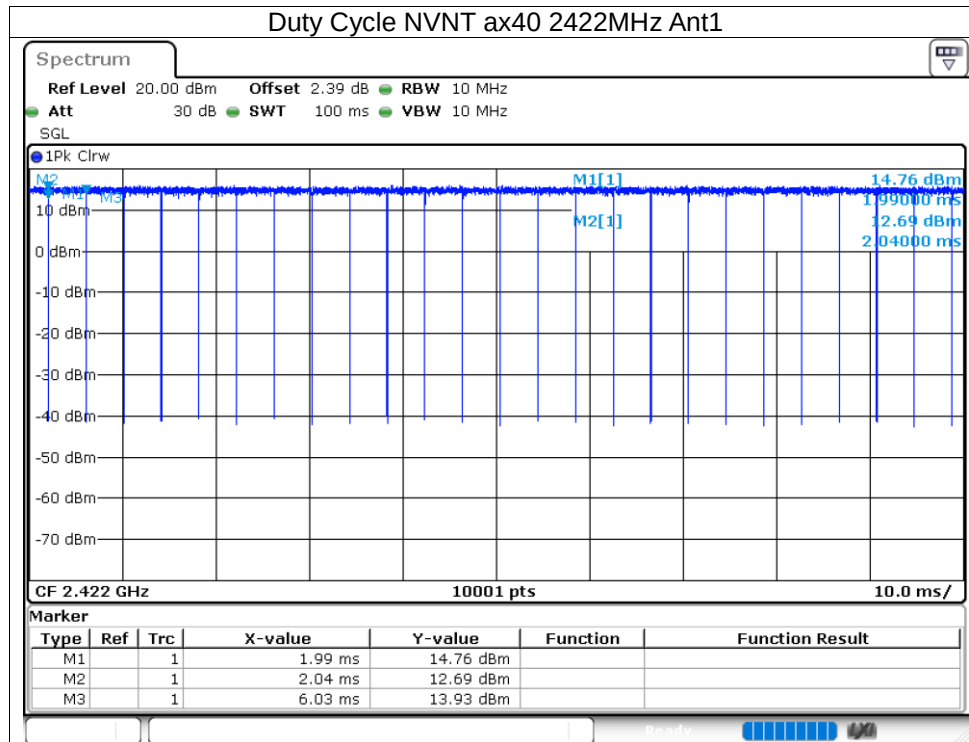


Duty Cycle NVNT ax20 2437MHz Ant2

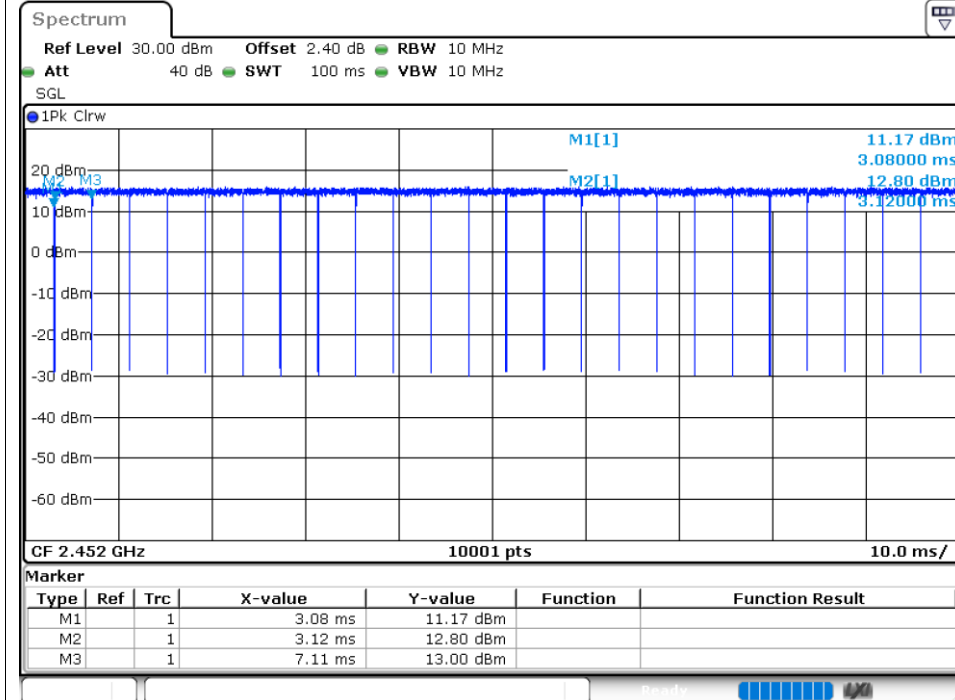


Duty Cycle NVNT ax20 2462MHz Ant2

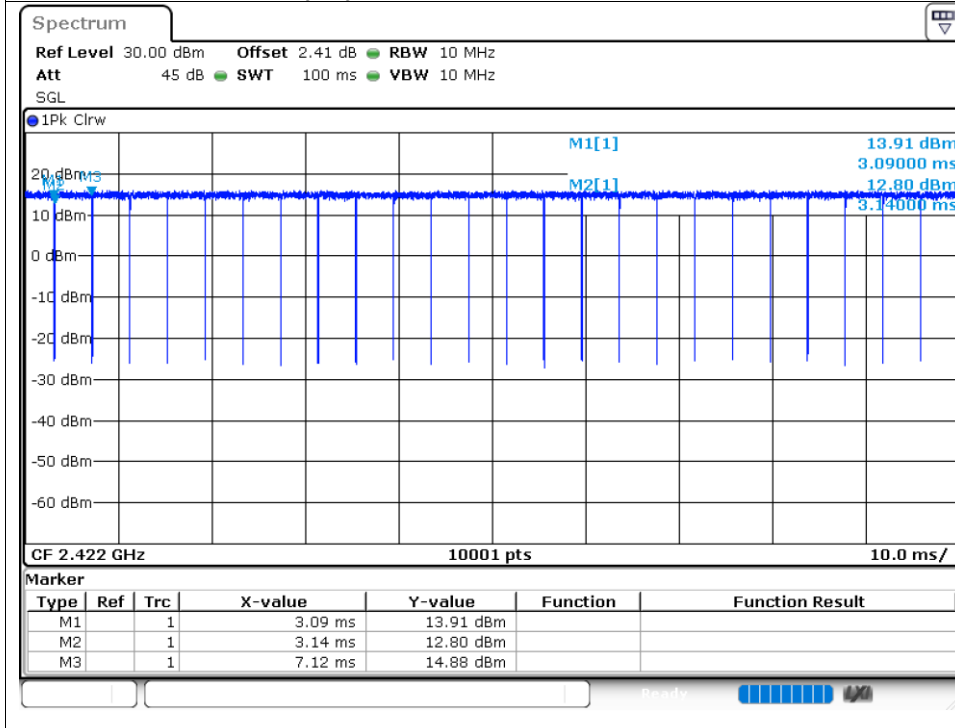




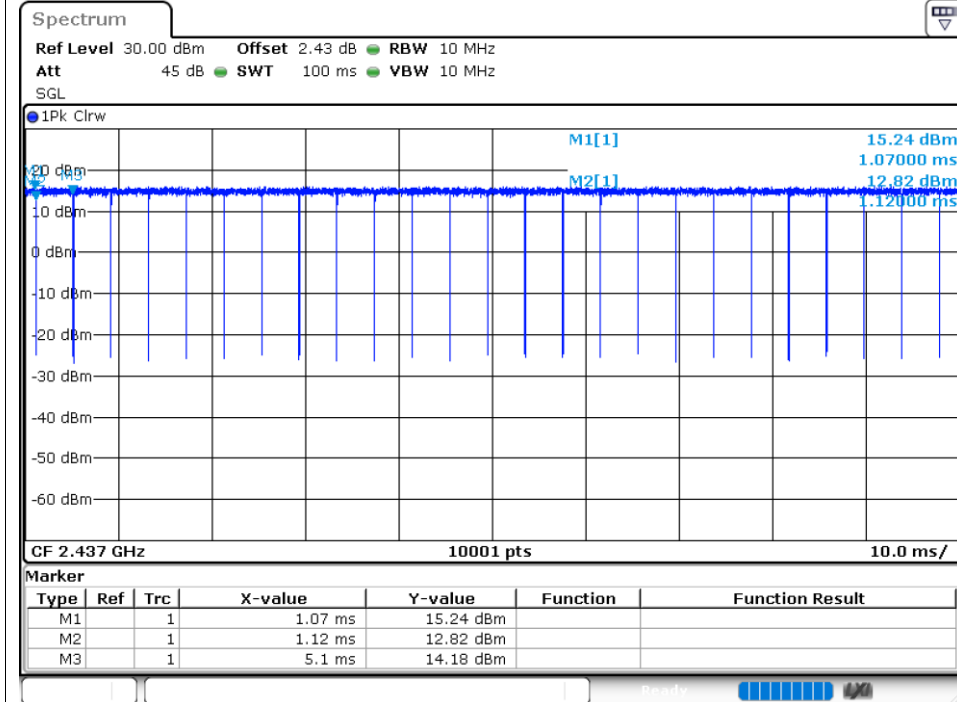
Duty Cycle NVNT ax40 2452MHz Ant1



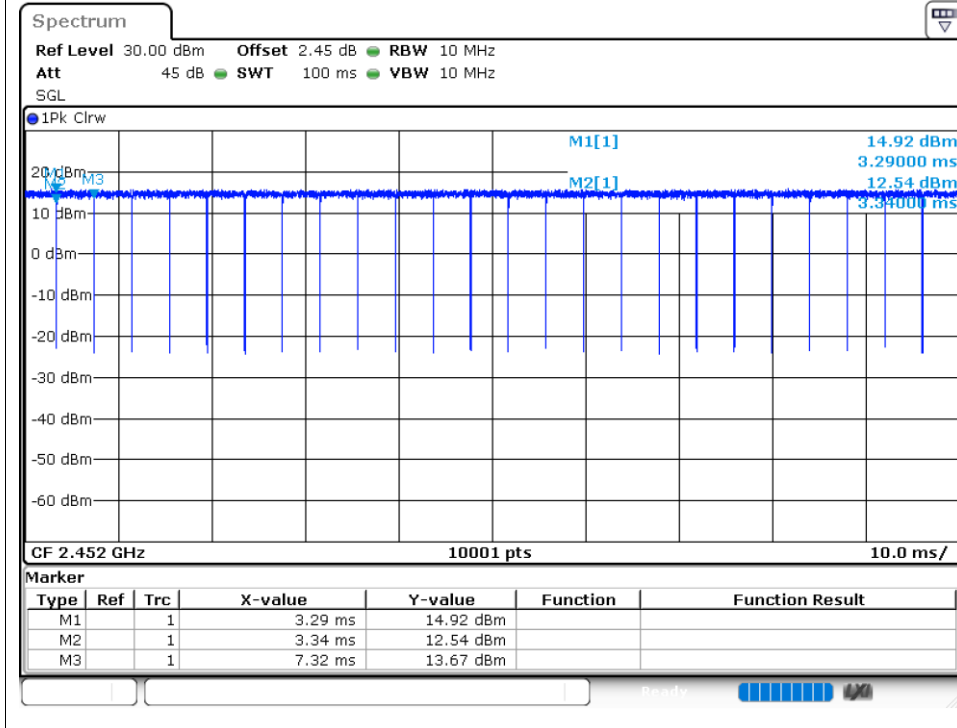
Duty Cycle NVNT ax40 2422MHz Ant2



Duty Cycle NVNT ax40 2437MHz Ant2



Duty Cycle NVNT ax40 2452MHz Ant2



8.1.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.72	30	Pass
NVNT	b	2437	Ant1	14.46	30	Pass
NVNT	b	2462	Ant1	14.71	30	Pass
NVNT	b	2412	Ant2	17.3	30	Pass
NVNT	b	2437	Ant2	17.51	30	Pass
NVNT	b	2462	Ant2	17.24	30	Pass
NVNT	g	2412	Ant1	14.14	30	Pass
NVNT	g	2437	Ant1	13.91	30	Pass
NVNT	g	2462	Ant1	14.02	30	Pass
NVNT	g	2412	Ant2	16.24	30	Pass
NVNT	g	2437	Ant2	16.93	30	Pass
NVNT	g	2462	Ant2	16.7	30	Pass
NVNT	n20	2412	Ant1	12.46	30	Pass
NVNT	n20	2437	Ant1	12.58	30	Pass
NVNT	n20	2462	Ant1	12.57	30	Pass
NVNT	n20	2412	Ant2	14.17	30	Pass
NVNT	n20	2437	Ant2	14.38	30	Pass
NVNT	n20	2462	Ant2	14.13	30	Pass
NVNT	n40	2422	Ant1	13.91	30	Pass
NVNT	n40	2437	Ant1	13.86	30	Pass
NVNT	n40	2452	Ant1	13.63	30	Pass
NVNT	n40	2422	Ant2	15.2	30	Pass
NVNT	n40	2437	Ant2	15.25	30	Pass
NVNT	n40	2452	Ant2	15.32	30	Pass
NVNT	ax20	2412	Ant1	12.95	30	Pass
NVNT	ax20	2437	Ant1	12.94	30	Pass
NVNT	ax20	2462	Ant1	12.84	30	Pass
NVNT	ax20	2412	Ant2	14.28	30	Pass
NVNT	ax20	2437	Ant2	14.49	30	Pass
NVNT	ax20	2462	Ant2	14.23	30	Pass
NVNT	ax40	2422	Ant1	13.85	30	Pass
NVNT	ax40	2437	Ant1	13.77	30	Pass
NVNT	ax40	2452	Ant1	13.67	30	Pass
NVNT	ax40	2422	Ant2	14.99	30	Pass
NVNT	ax40	2437	Ant2	15.08	30	Pass
NVNT	ax40	2452	Ant2	15.04	30	Pass

8.1.3 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.08	0.5	Pass
NVNT	b	2437	Ant1	9.81	0.5	Pass
NVNT	b	2462	Ant1	10.095	0.5	Pass
NVNT	b	2412	Ant2	10.068	0.5	Pass
NVNT	b	2437	Ant2	10.086	0.5	Pass
NVNT	b	2462	Ant2	10.095	0.5	Pass
NVNT	g	2412	Ant1	11.706	0.5	Pass
NVNT	g	2437	Ant1	13.767	0.5	Pass
NVNT	g	2462	Ant1	16.353	0.5	Pass
NVNT	g	2412	Ant2	13.824	0.5	Pass
NVNT	g	2437	Ant2	16.305	0.5	Pass
NVNT	g	2462	Ant2	16.326	0.5	Pass
NVNT	n20	2412	Ant1	17.589	0.5	Pass
NVNT	n20	2437	Ant1	17.568	0.5	Pass
NVNT	n20	2462	Ant1	17.595	0.5	Pass
NVNT	n20	2412	Ant2	17.544	0.5	Pass
NVNT	n20	2437	Ant2	17.592	0.5	Pass
NVNT	n20	2462	Ant2	17.559	0.5	Pass
NVNT	n40	2422	Ant1	35.664	0.5	Pass
NVNT	n40	2437	Ant1	35.148	0.5	Pass
NVNT	n40	2452	Ant1	35.31	0.5	Pass
NVNT	n40	2422	Ant2	36.324	0.5	Pass
NVNT	n40	2437	Ant2	27.276	0.5	Pass
NVNT	n40	2452	Ant2	36.294	0.5	Pass
NVNT	ax20	2412	Ant1	10.968	0.5	Pass
NVNT	ax20	2437	Ant1	17.958	0.5	Pass
NVNT	ax20	2462	Ant1	18.339	0.5	Pass
NVNT	ax20	2412	Ant2	17.076	0.5	Pass
NVNT	ax20	2437	Ant2	18.591	0.5	Pass
NVNT	ax20	2462	Ant2	18.708	0.5	Pass
NVNT	ax40	2422	Ant1	34.698	0.5	Pass
NVNT	ax40	2437	Ant1	36.732	0.5	Pass
NVNT	ax40	2452	Ant1	37.524	0.5	Pass
NVNT	ax40	2422	Ant2	35.736	0.5	Pass
NVNT	ax40	2437	Ant2	37.374	0.5	Pass
NVNT	ax40	2452	Ant2	37.488	0.5	Pass

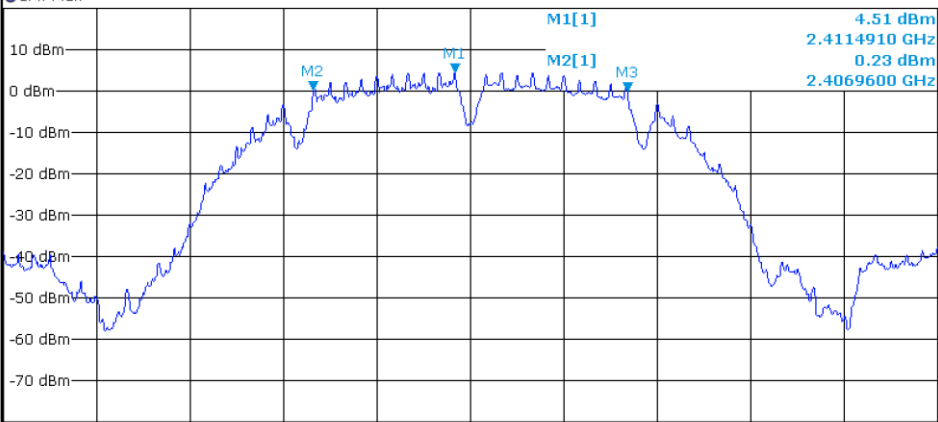
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 30 dB SWT 75.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 2.412 GHz 1001 pts Span 30.0 MHz

Marker

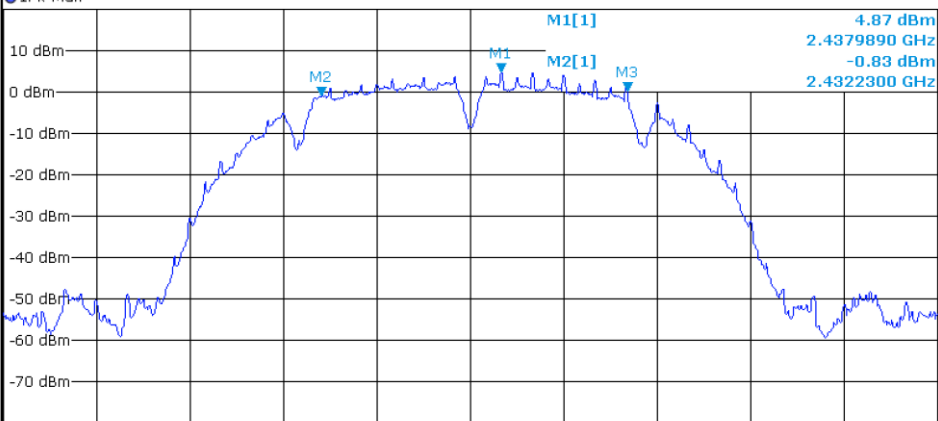
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.411491 GHz	4.51 dBm		
M2		1	2.40696 GHz	0.23 dBm		
M3		1	2.41704 GHz	-0.11 dBm		

-6dB Bandwidth NVNT b 2437MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 100 kHz
Att 30 dB SWT 75.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 200/200

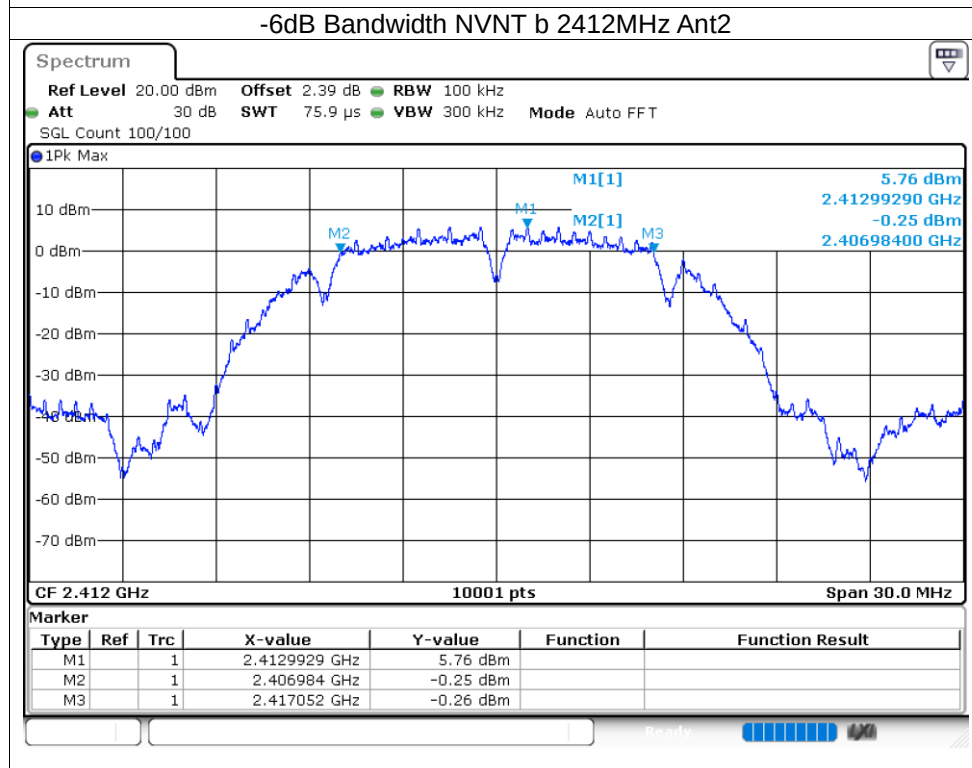
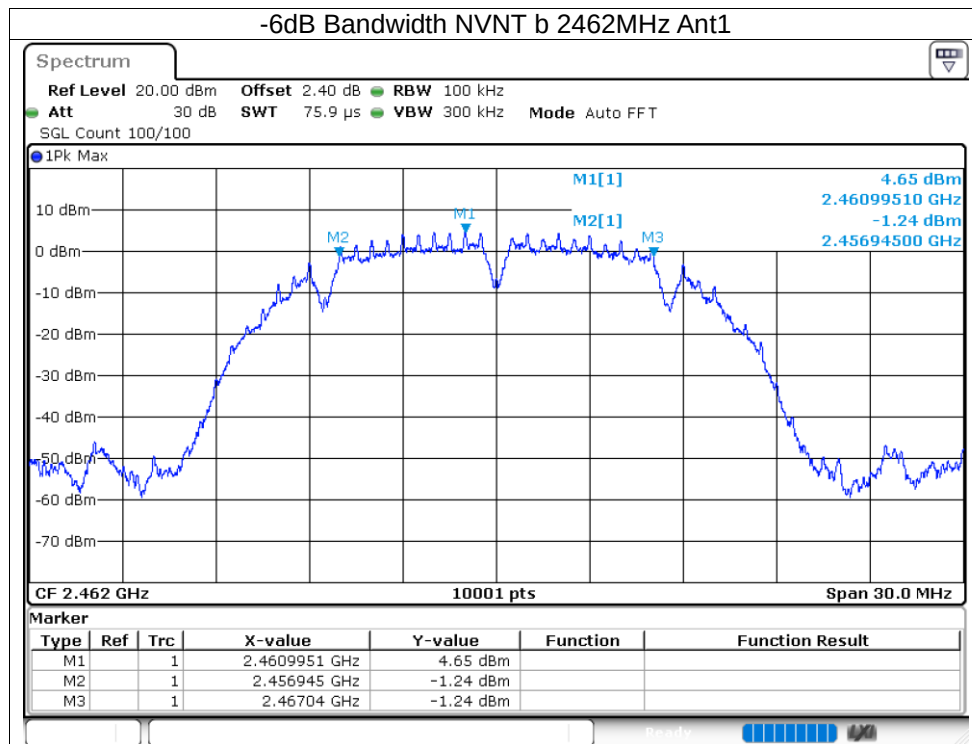
1Pk Max

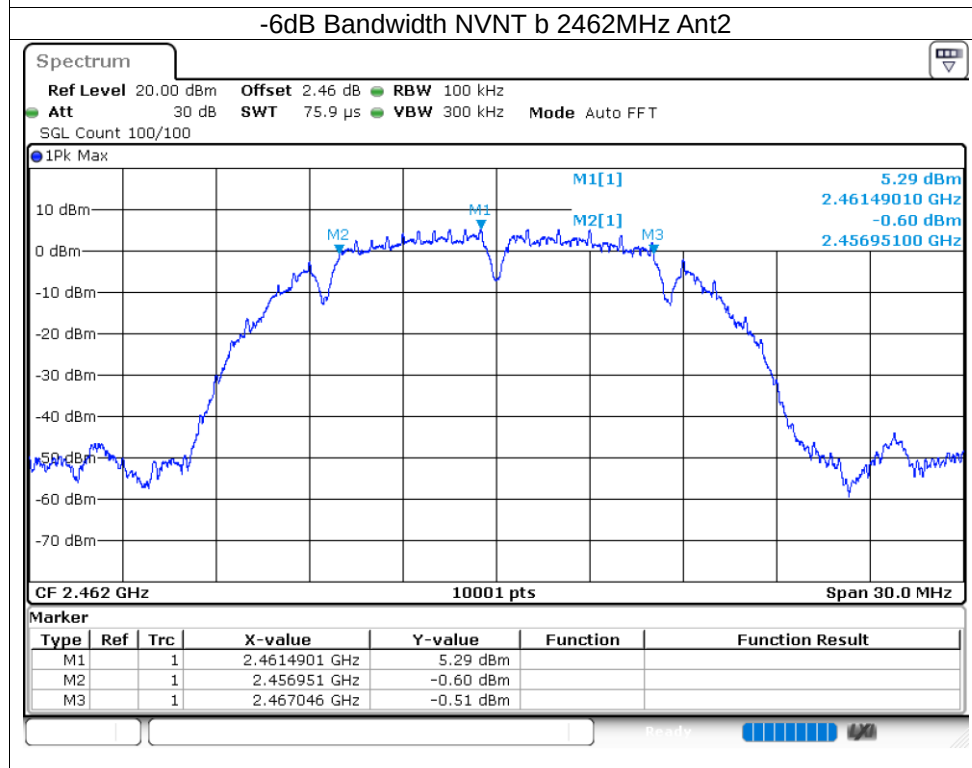
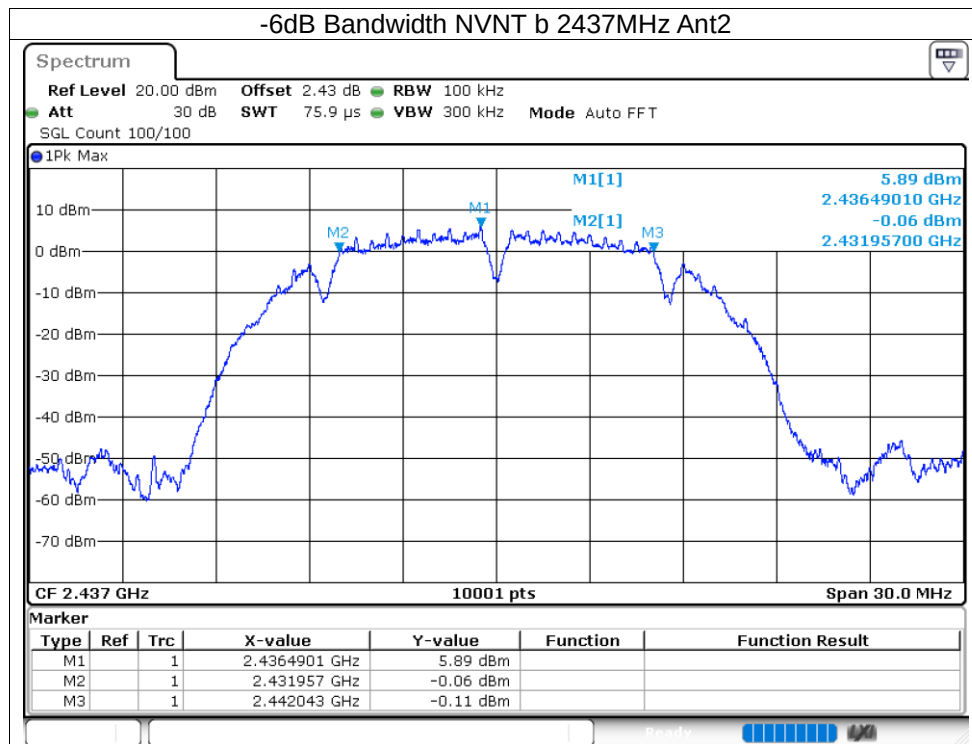


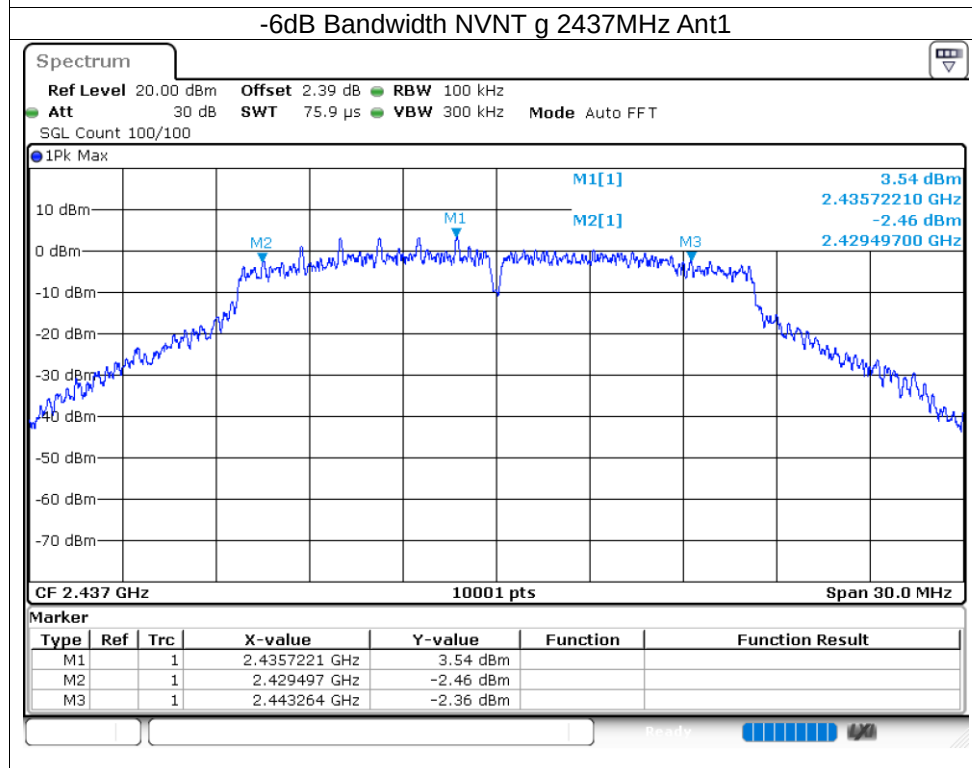
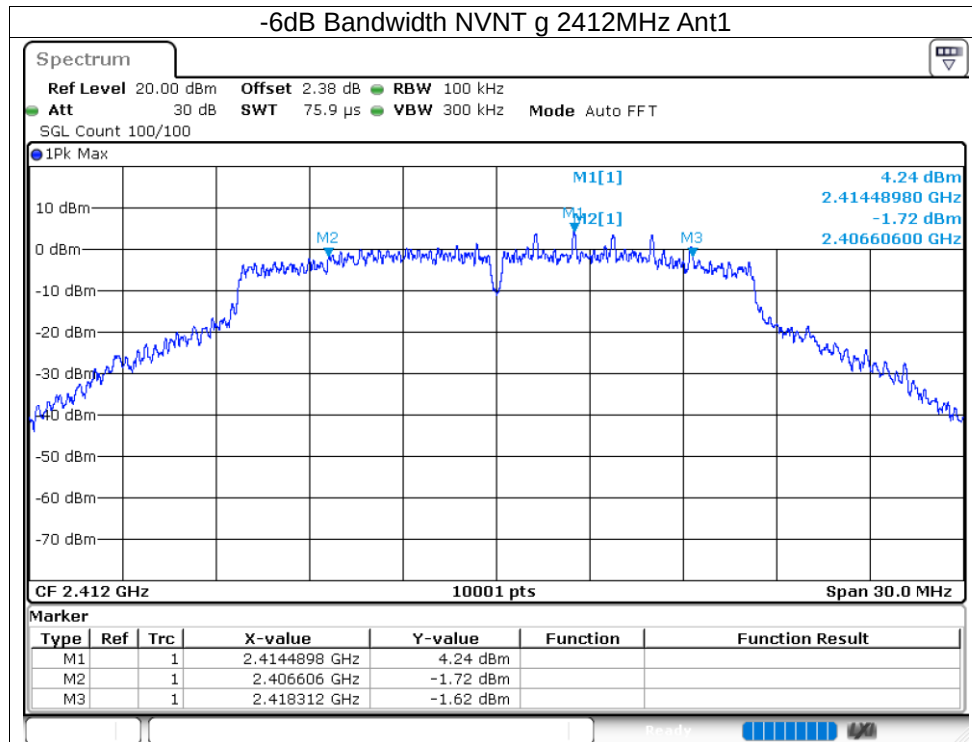
CF 2.437 GHz 1001 pts Span 30.0 MHz

Marker

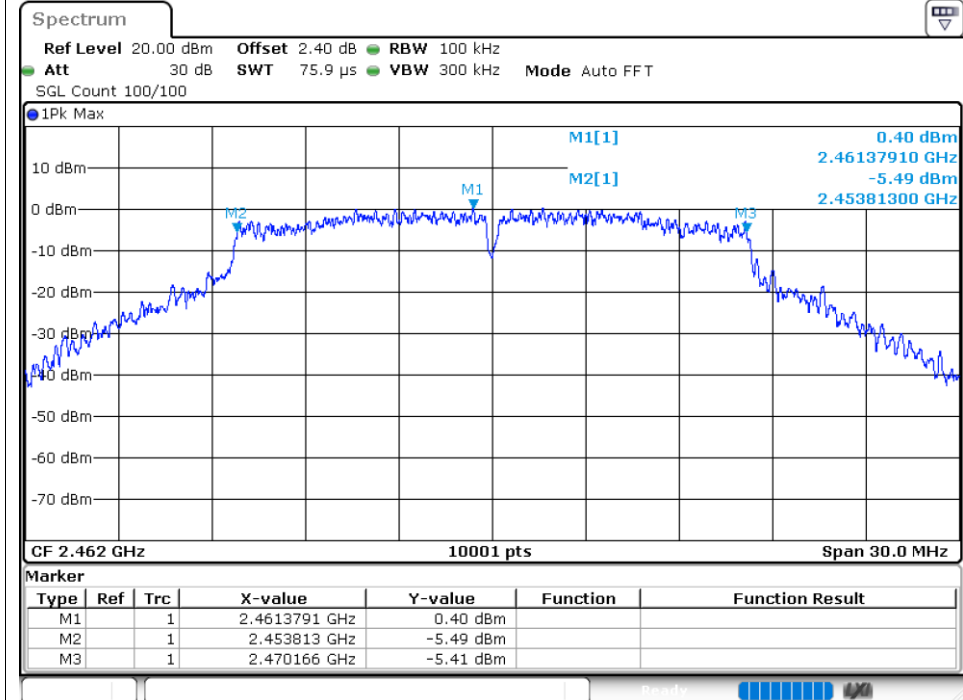
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.437989 GHz	4.87 dBm		
M2		1	2.43223 GHz	-0.83 dBm		
M3		1	2.44204 GHz	0.22 dBm		



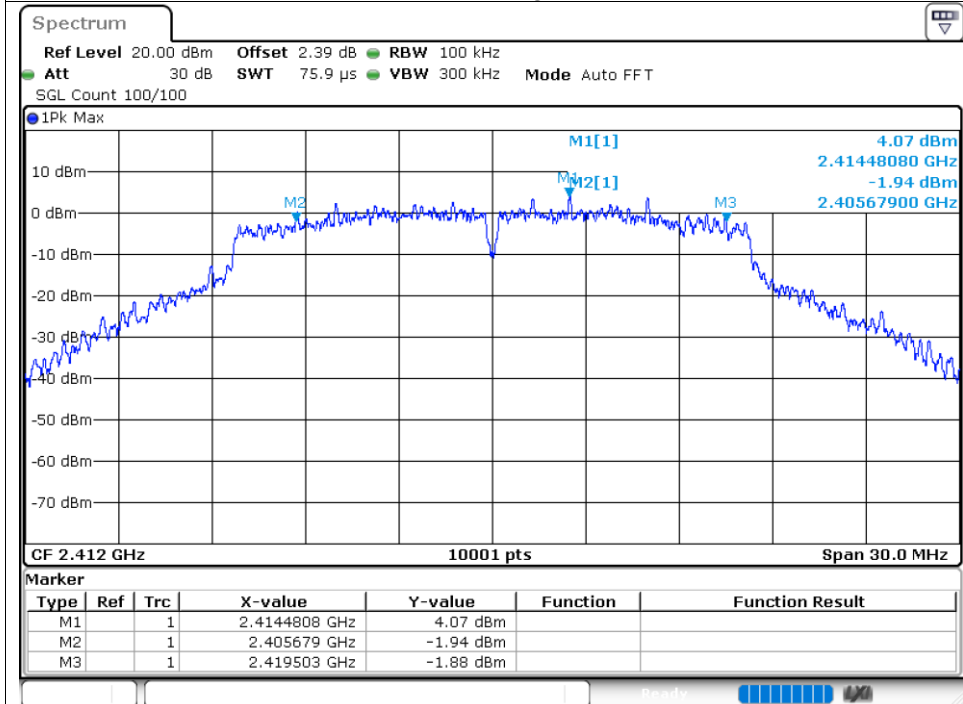


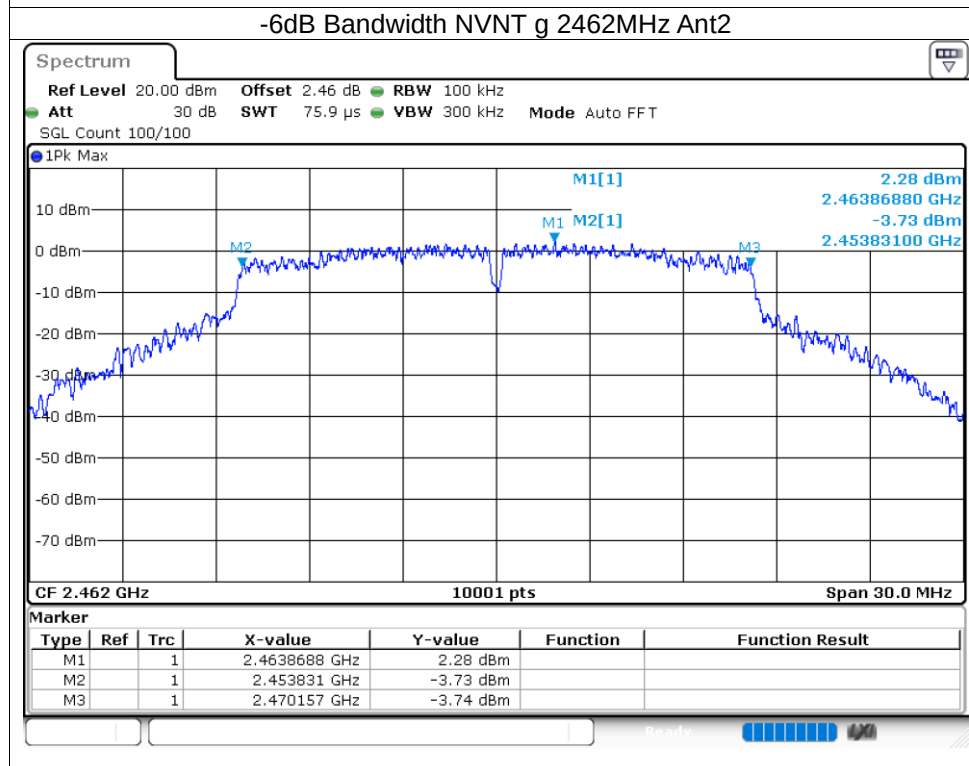
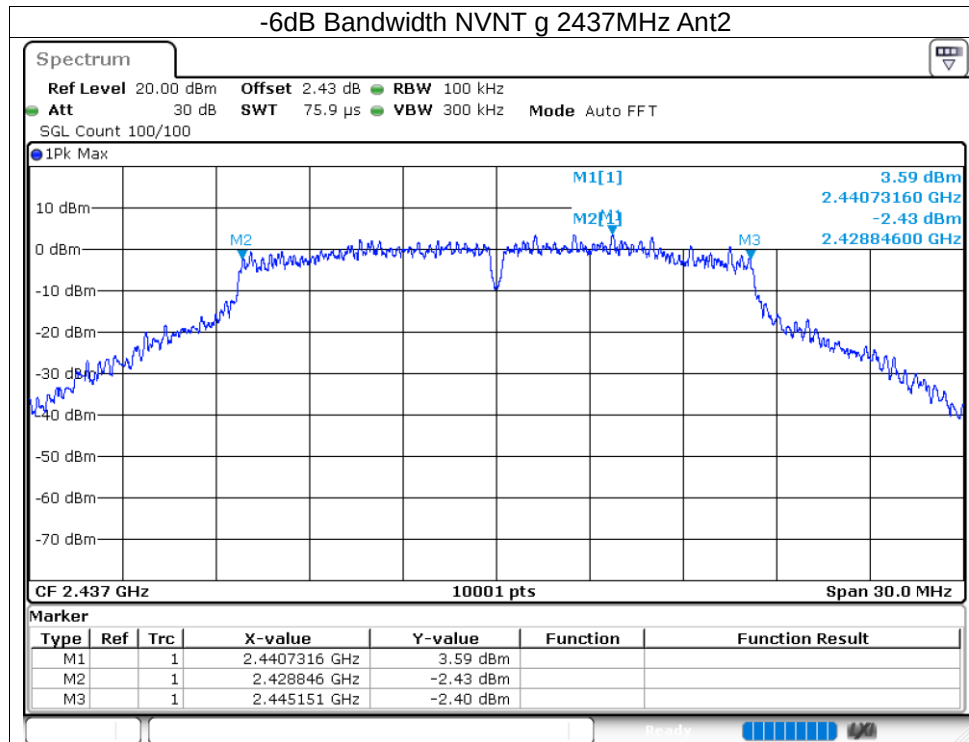


-6dB Bandwidth NVNT g 2462MHz Ant1

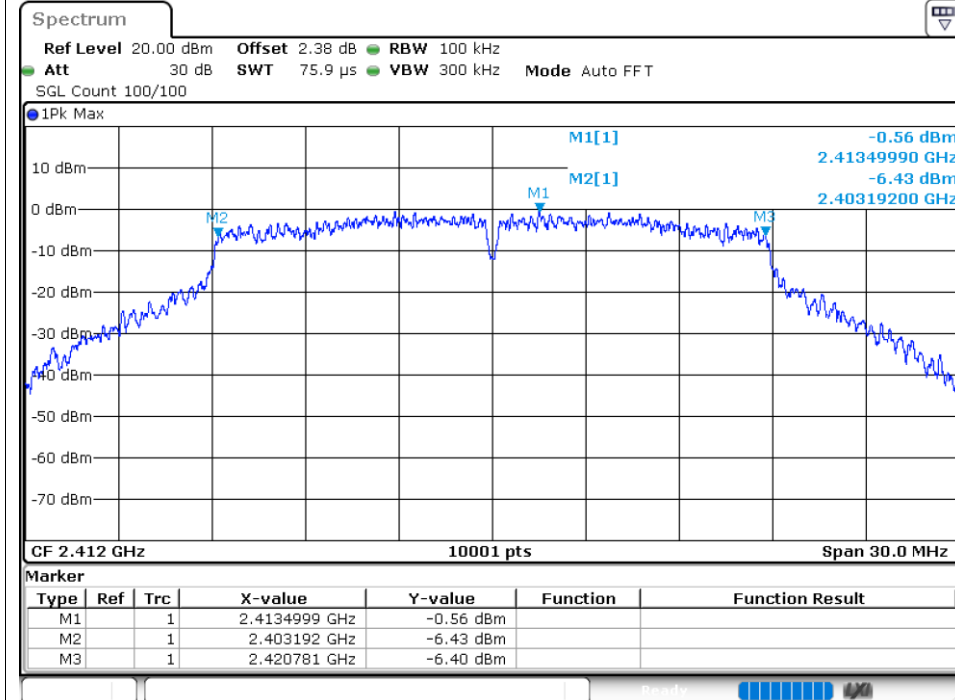


-6dB Bandwidth NVNT g 2412MHz Ant2

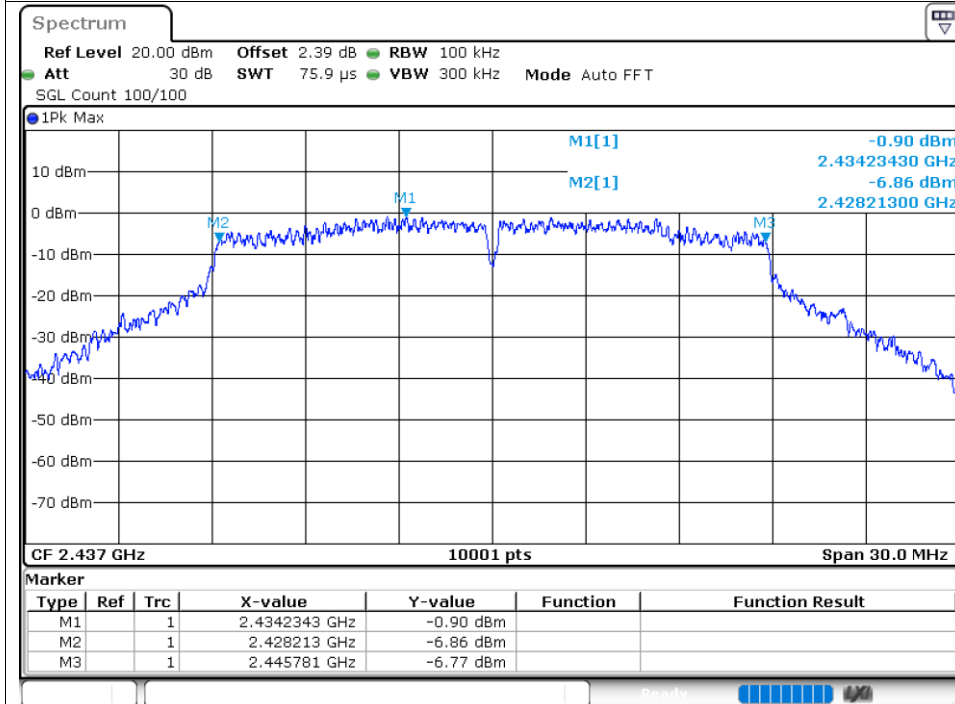




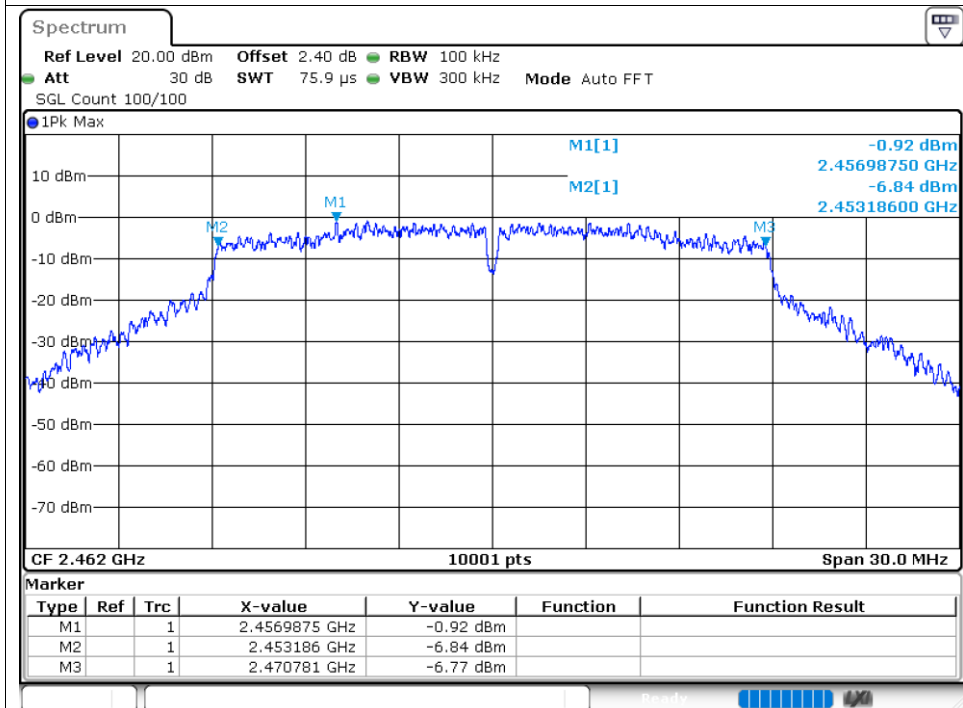
-6dB Bandwidth NVNT n20 2412MHz Ant1



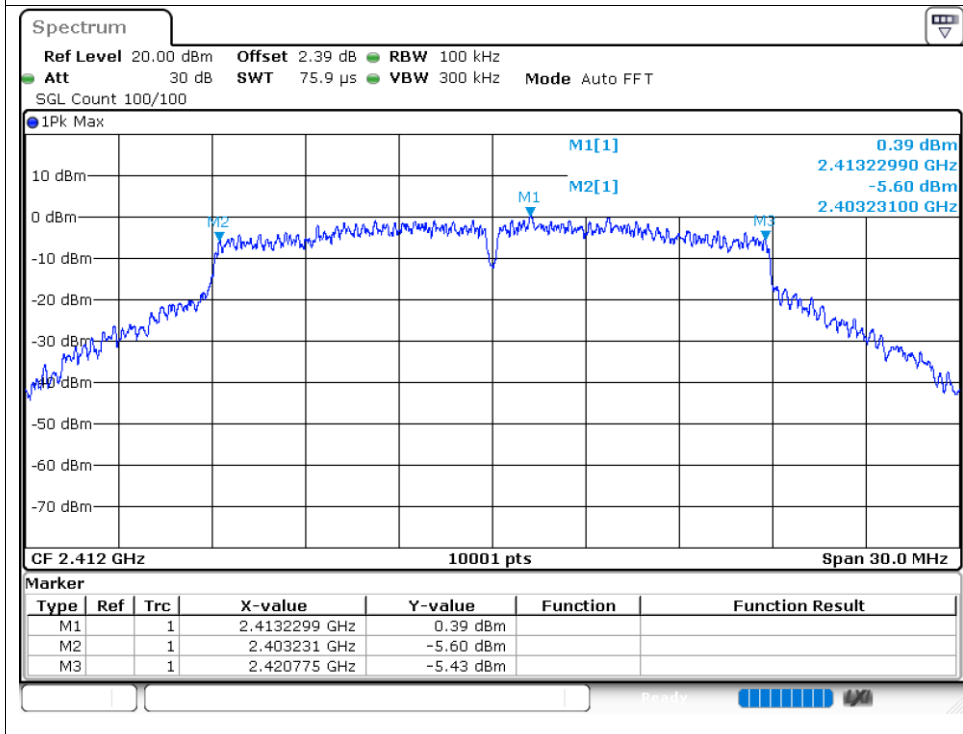
-6dB Bandwidth NVNT n20 2437MHz Ant1



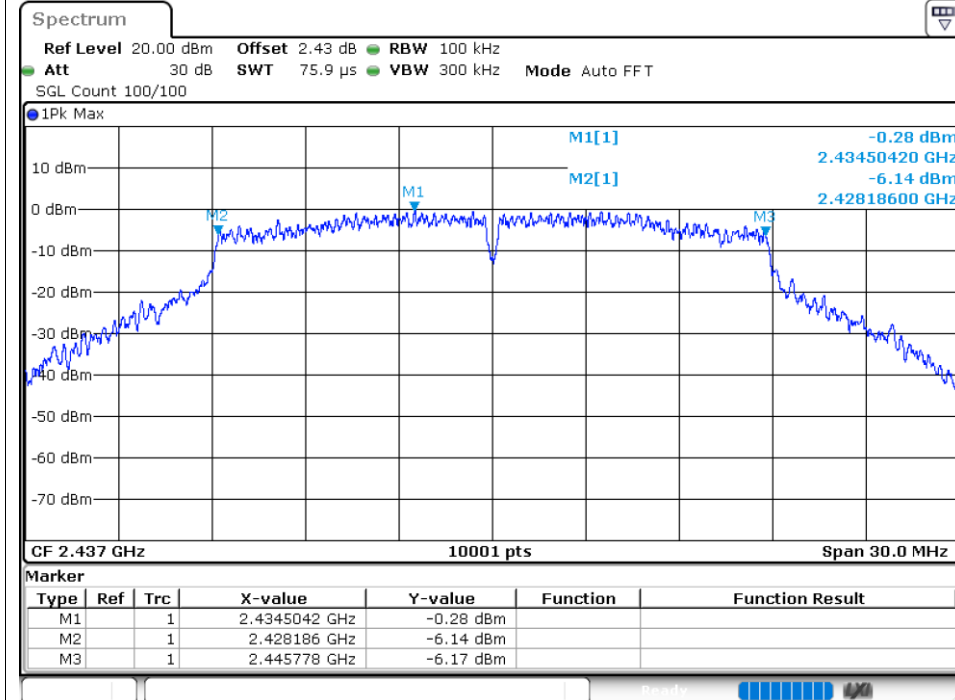
-6dB Bandwidth NVNT n20 2462MHz Ant1



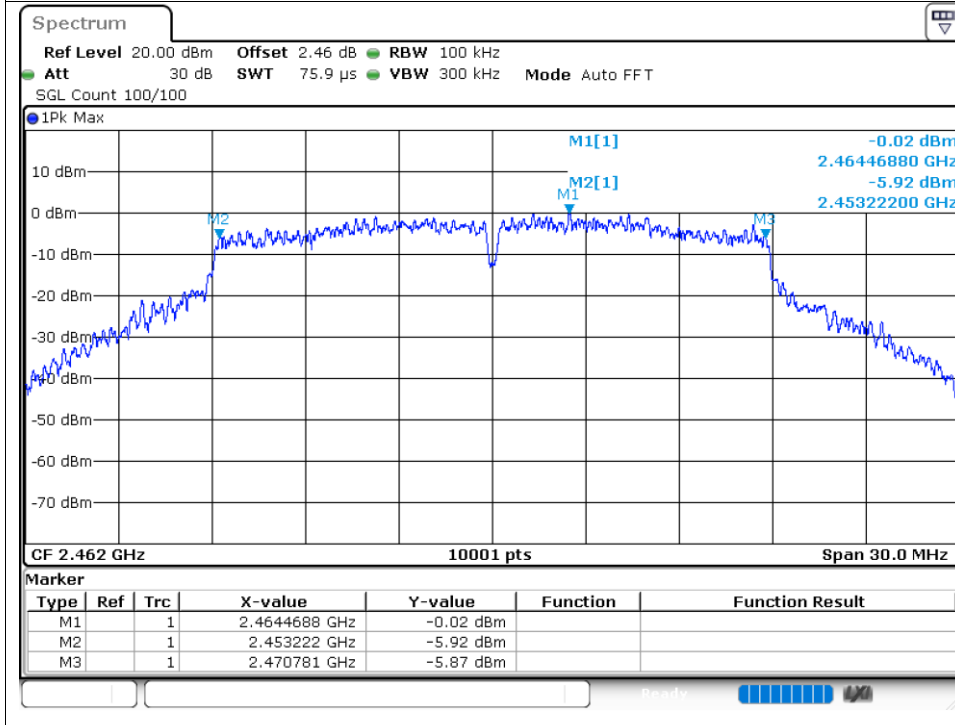
-6dB Bandwidth NVNT n20 2412MHz Ant2



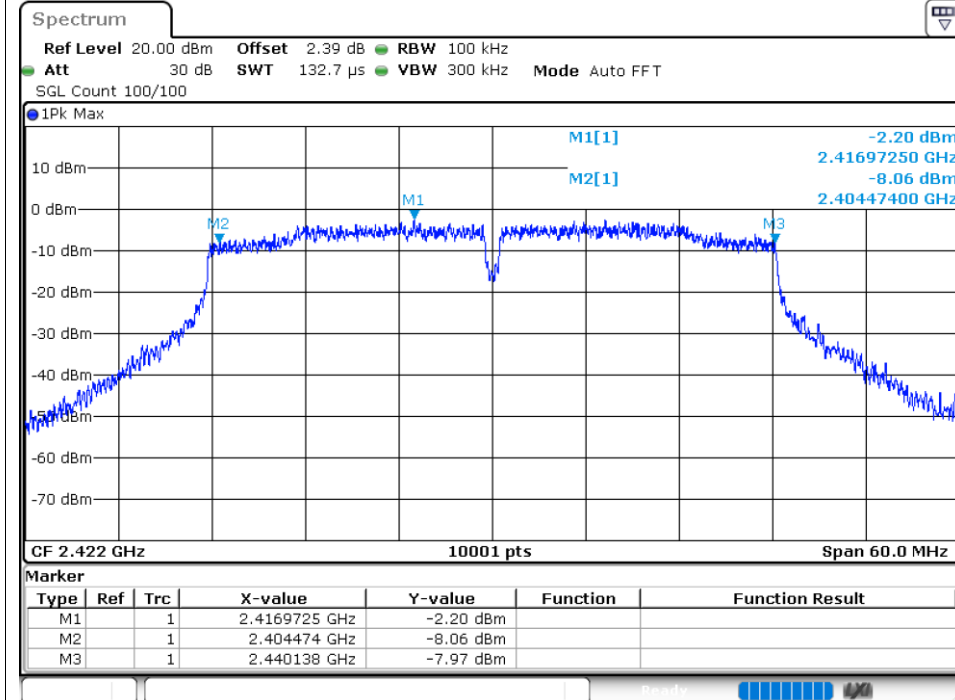
-6dB Bandwidth NVNT n20 2437MHz Ant2



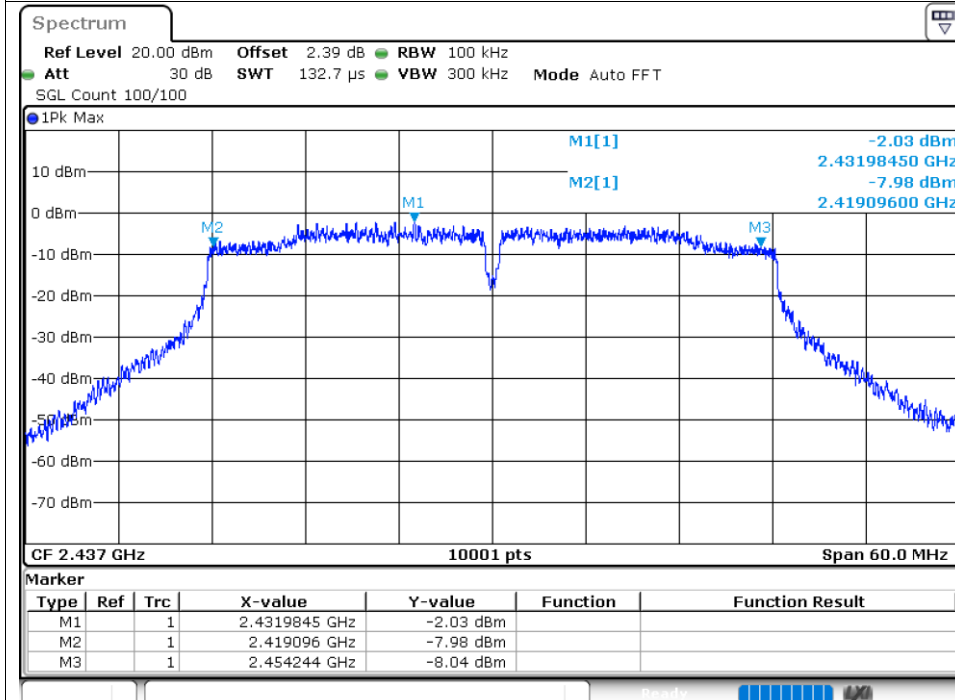
-6dB Bandwidth NVNT n20 2462MHz Ant2



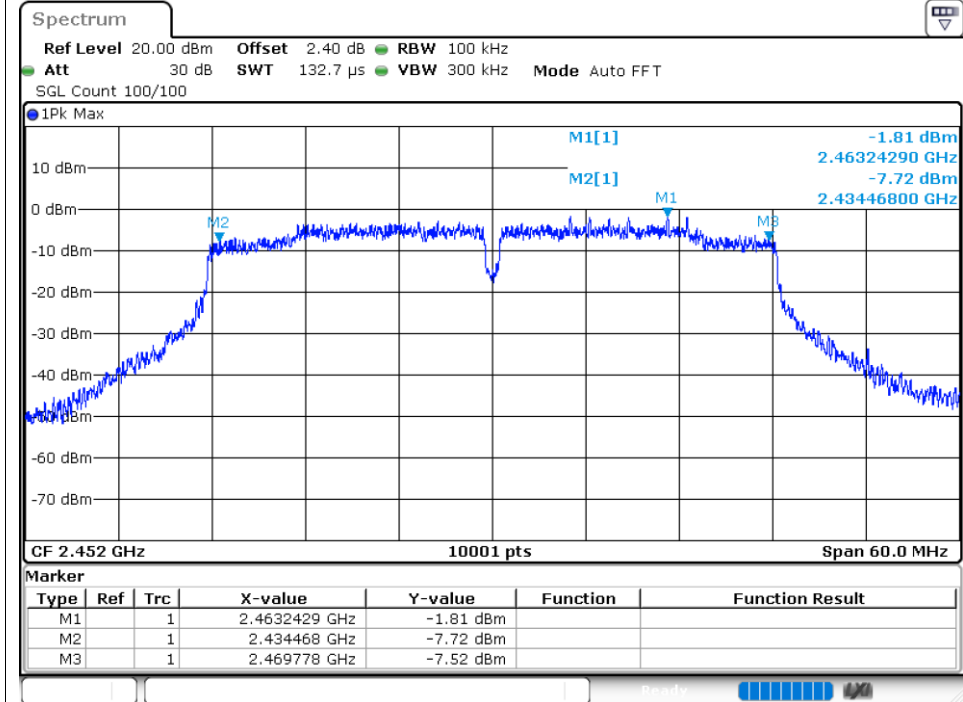
-6dB Bandwidth NVNT n40 2422MHz Ant1



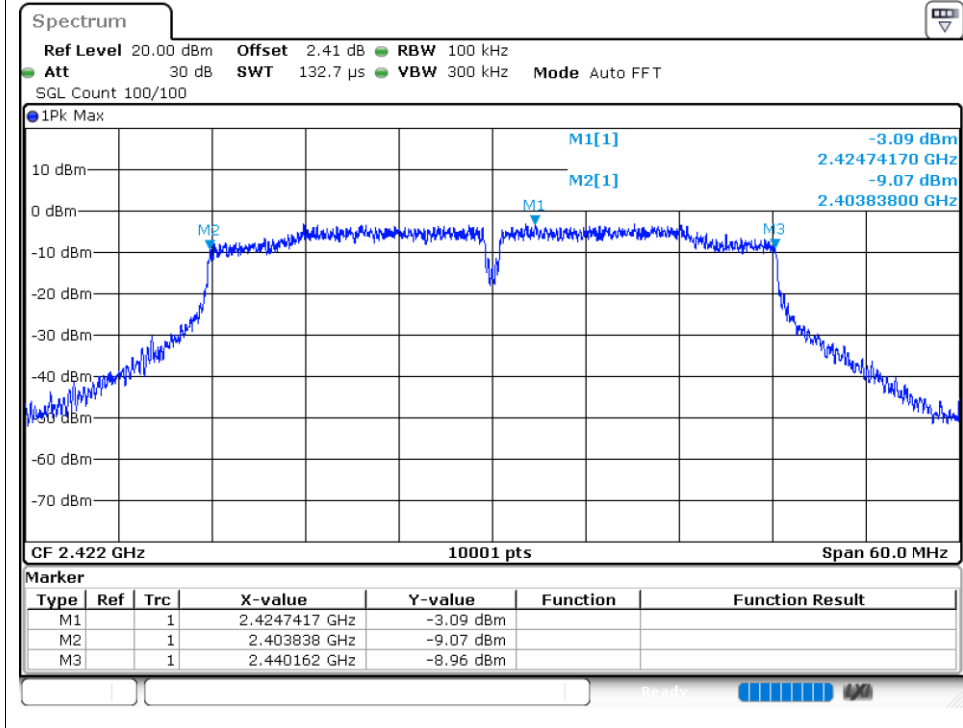
-6dB Bandwidth NVNT n40 2437MHz Ant1



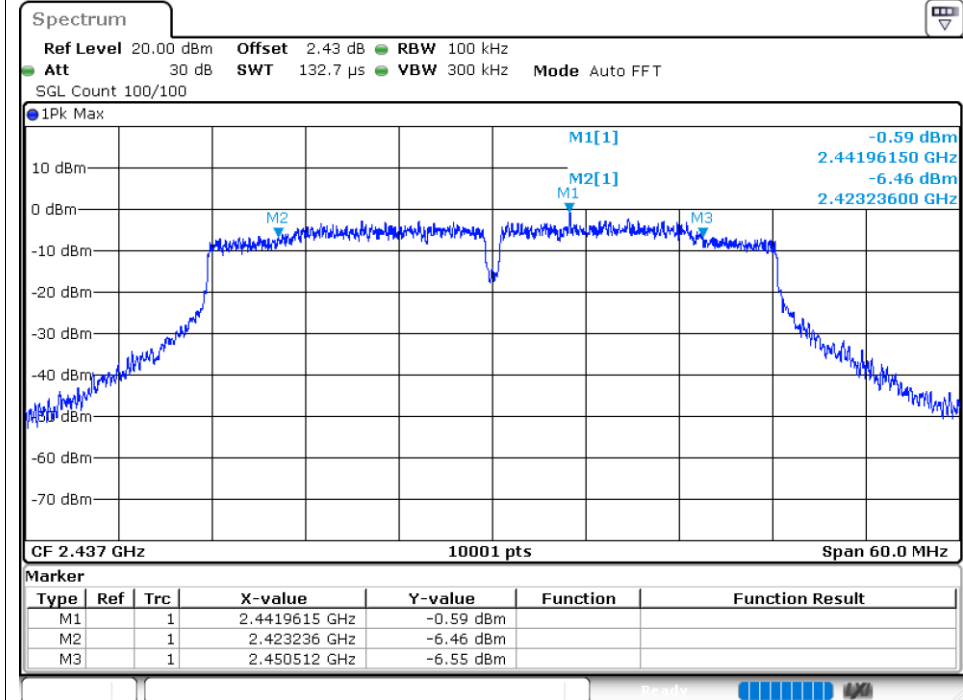
-6dB Bandwidth NVNT n40 2452MHz Ant1



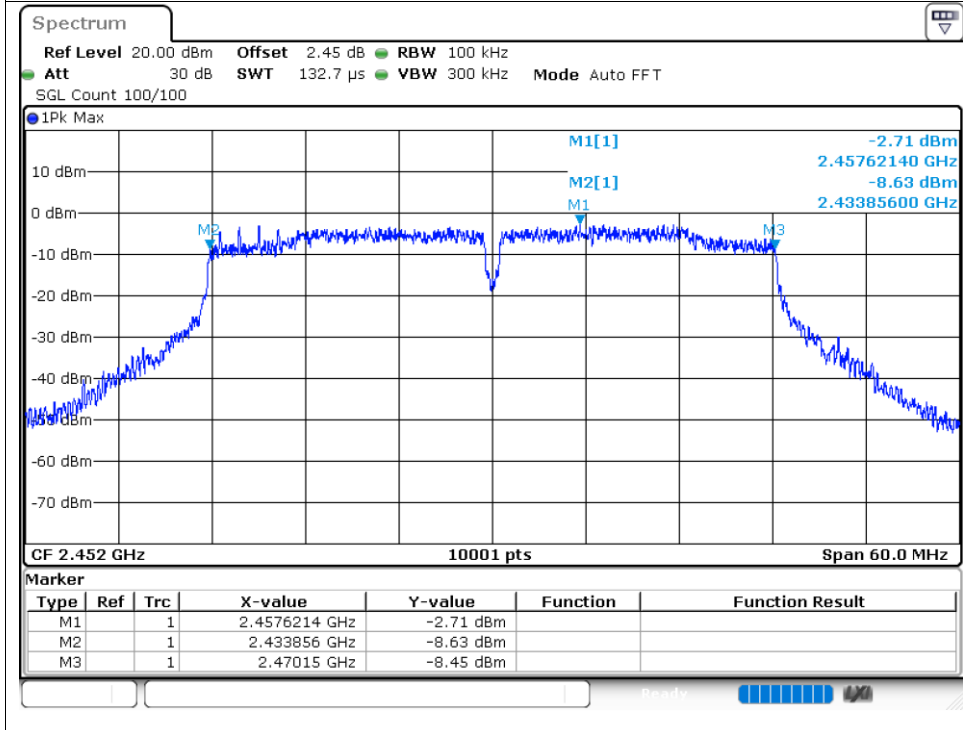
-6dB Bandwidth NVNT n40 2422MHz Ant2



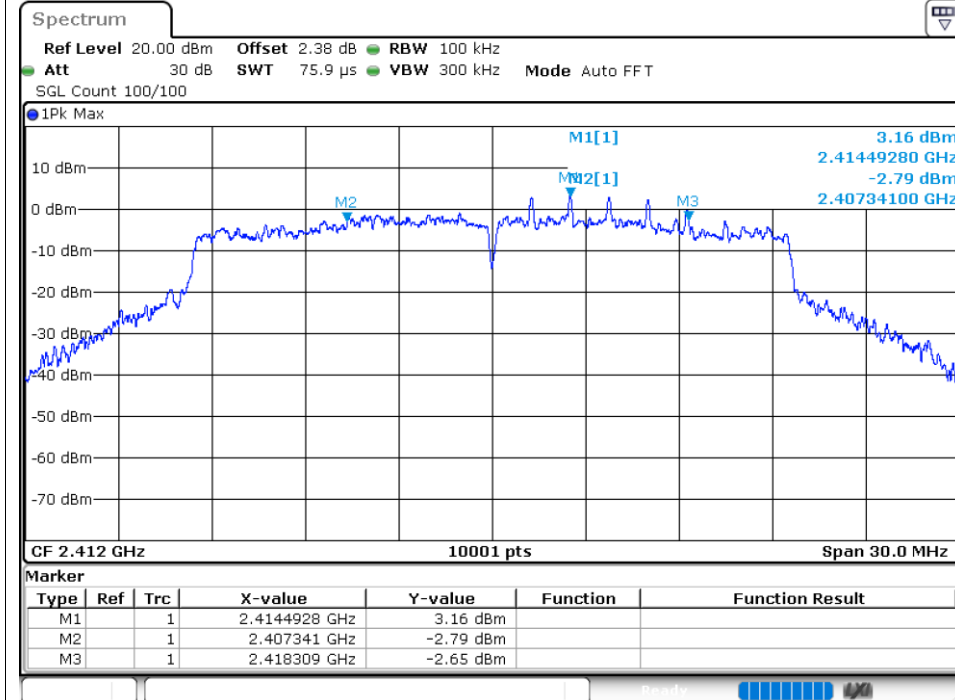
-6dB Bandwidth NVNT n40 2437MHz Ant2



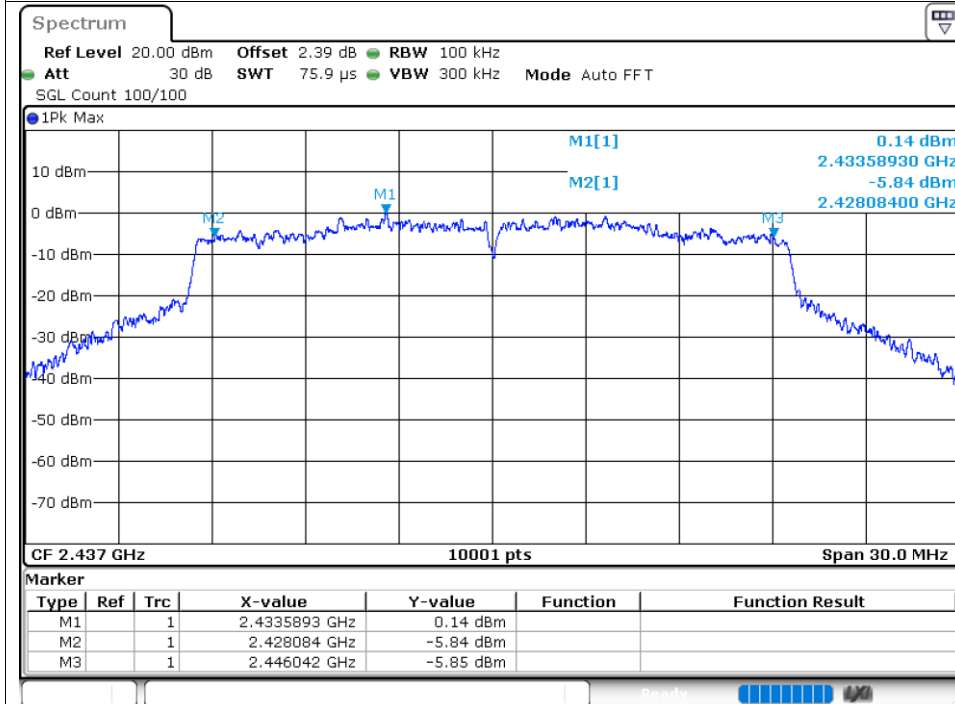
-6dB Bandwidth NVNT n40 2452MHz Ant2



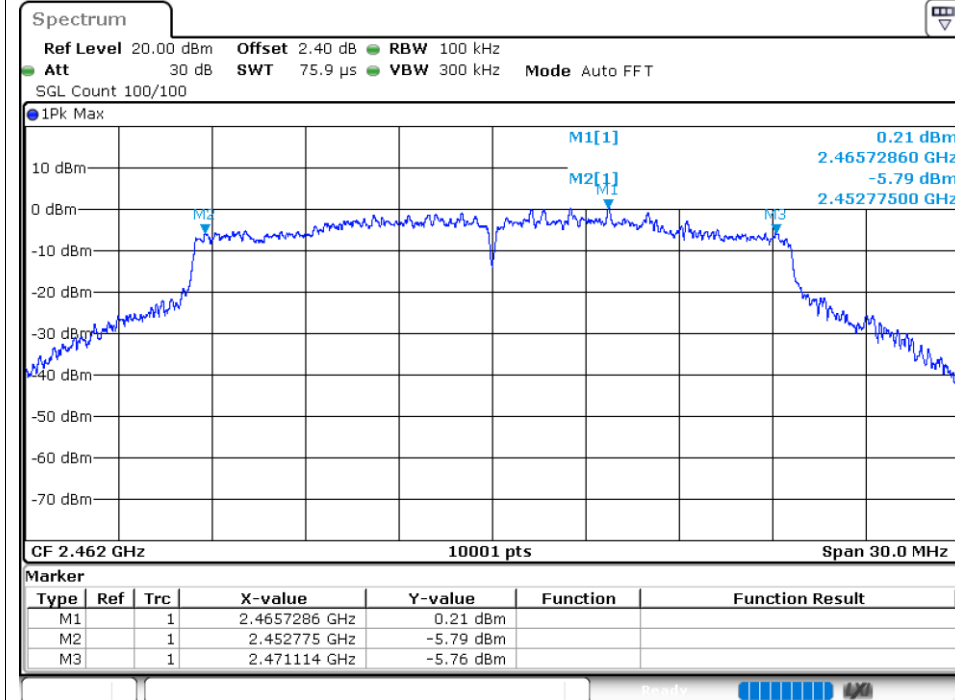
-6dB Bandwidth NVNT ax20 2412MHz Ant1



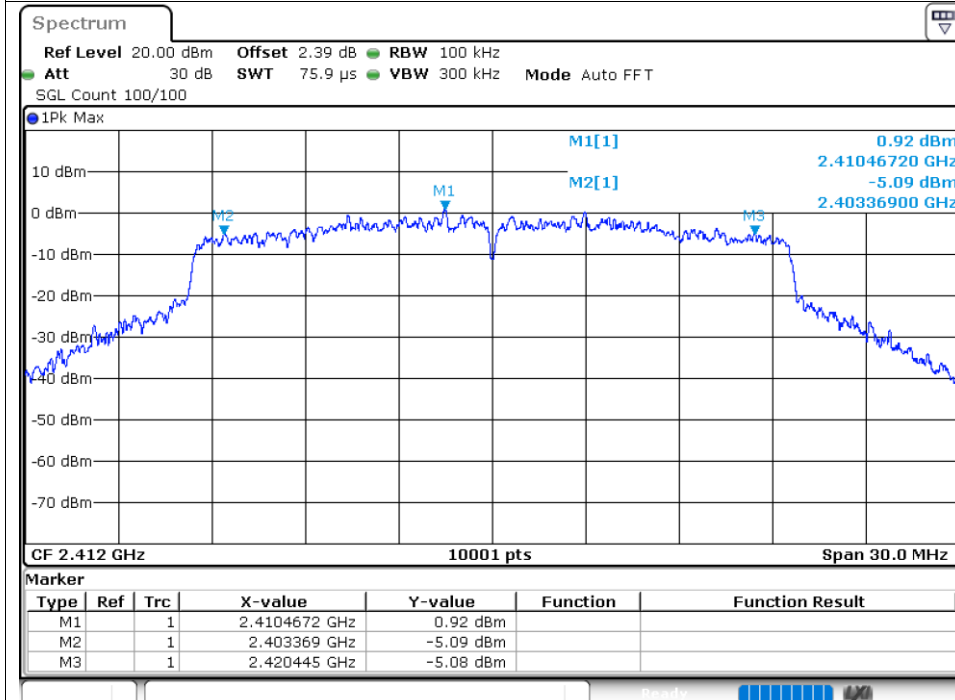
-6dB Bandwidth NVNT ax20 2437MHz Ant1



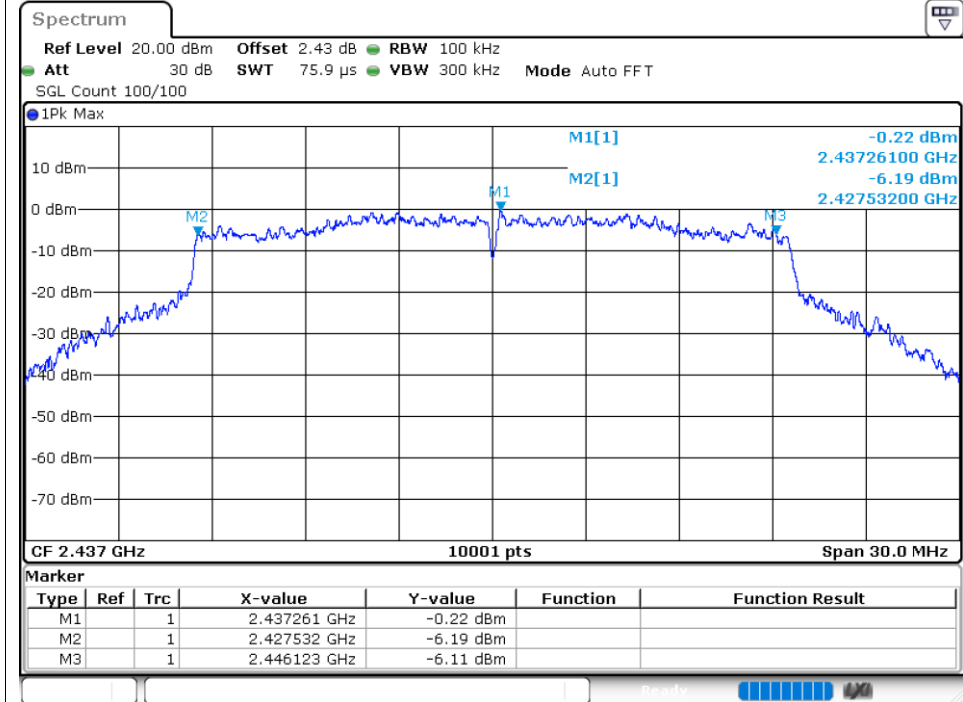
-6dB Bandwidth NVNT ax20 2462MHz Ant1



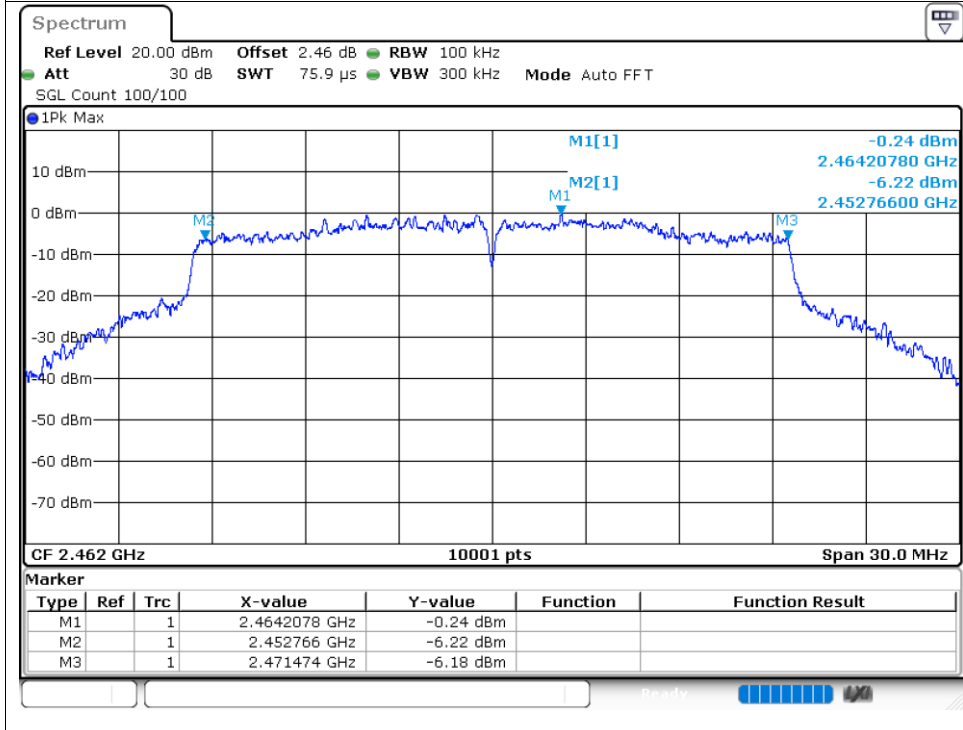
-6dB Bandwidth NVNT ax20 2412MHz Ant2



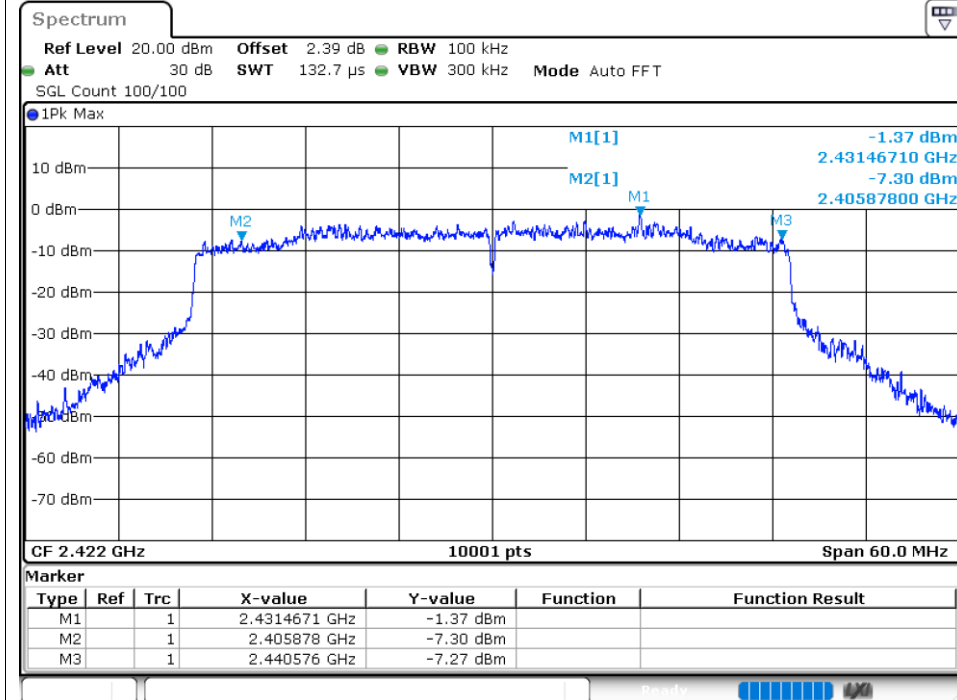
-6dB Bandwidth NVNT ax20 2437MHz Ant2



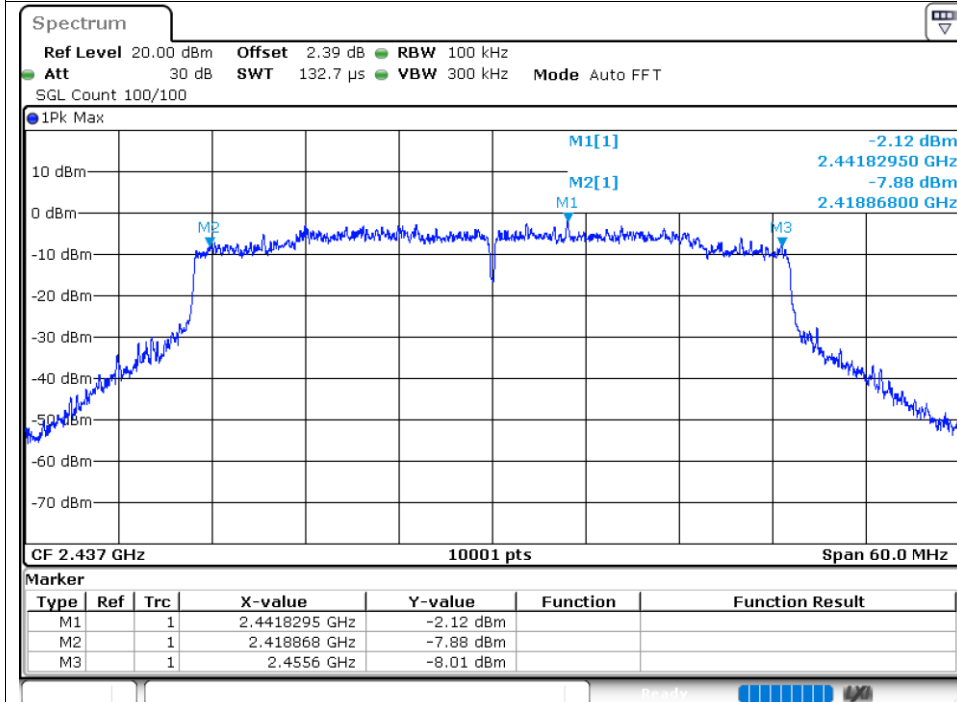
-6dB Bandwidth NVNT ax20 2462MHz Ant2



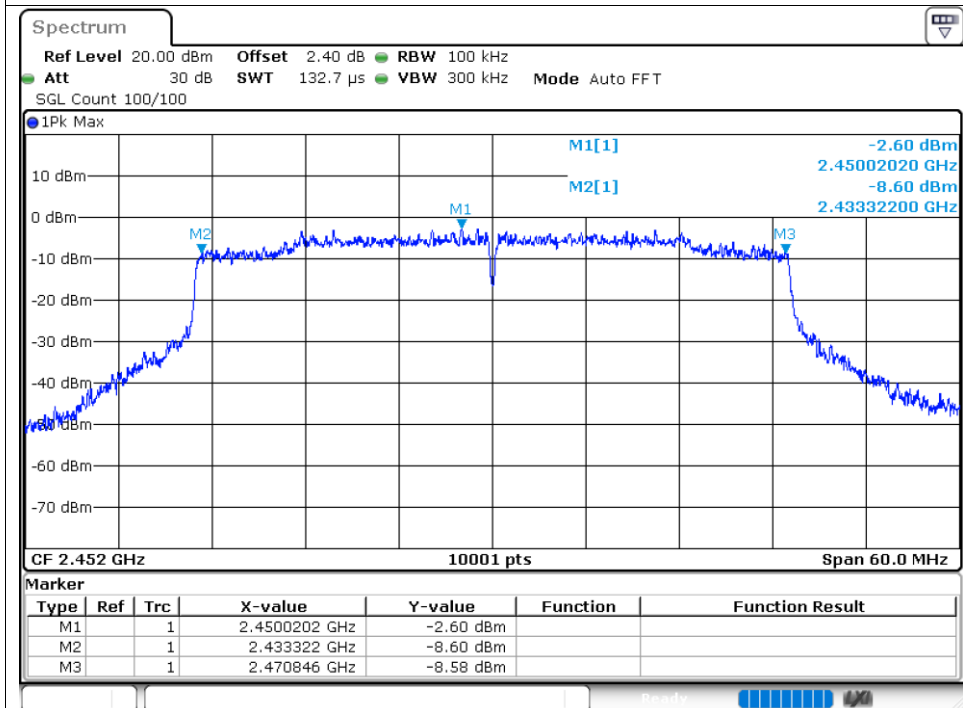
-6dB Bandwidth NVNT ax40 2422MHz Ant1



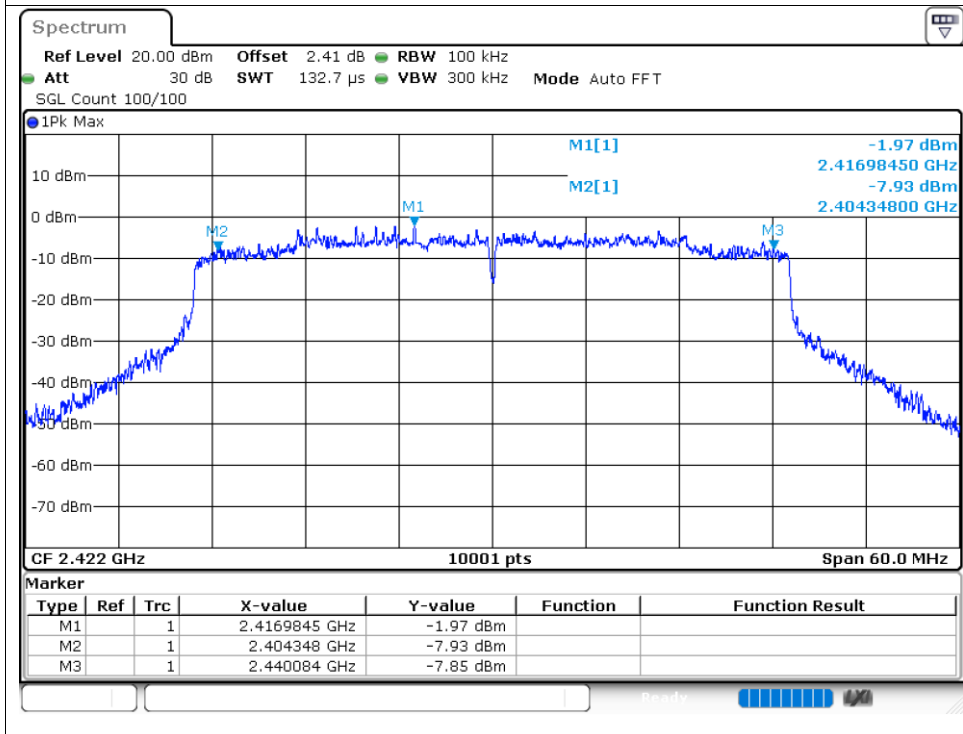
-6dB Bandwidth NVNT ax40 2437MHz Ant1



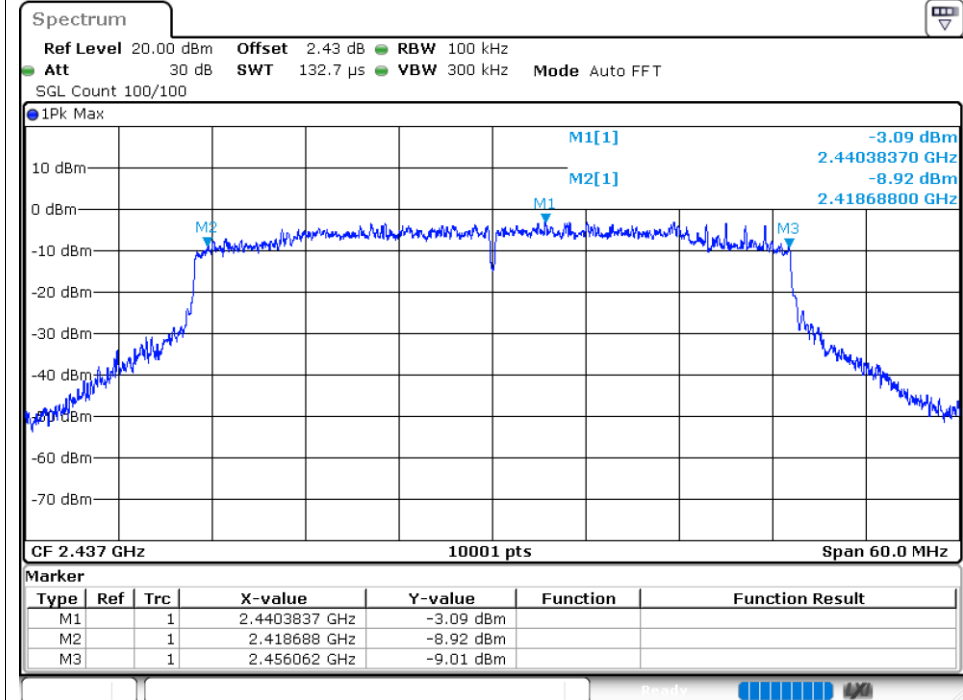
-6dB Bandwidth NVNT ax40 2452MHz Ant1



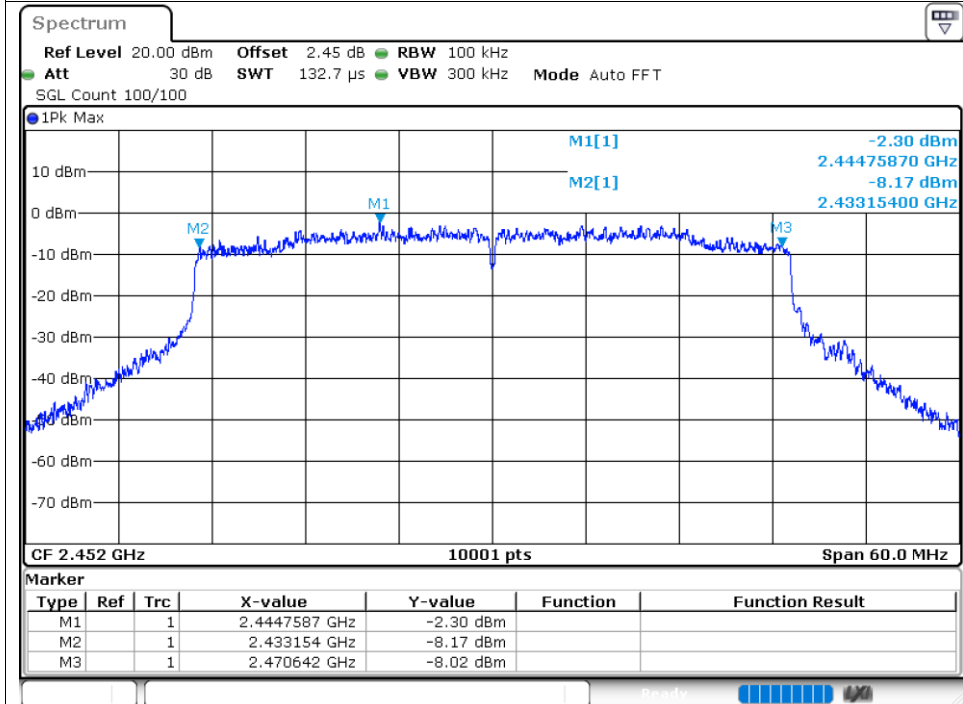
-6dB Bandwidth NVNT ax40 2422MHz Ant2



-6dB Bandwidth NVNT ax40 2437MHz Ant2

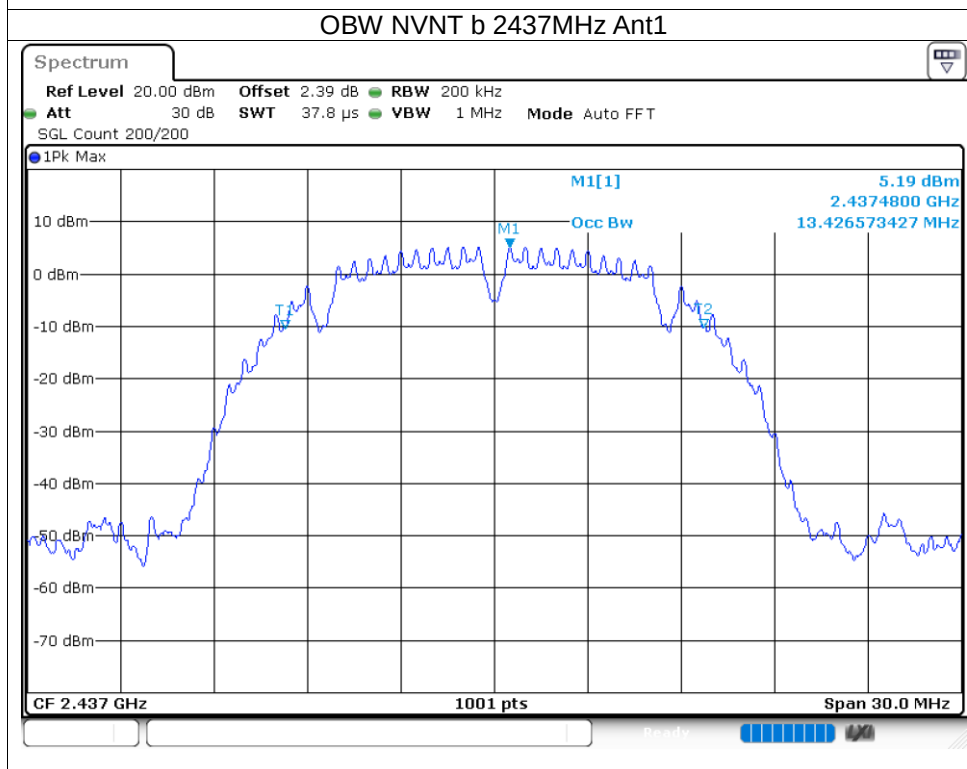
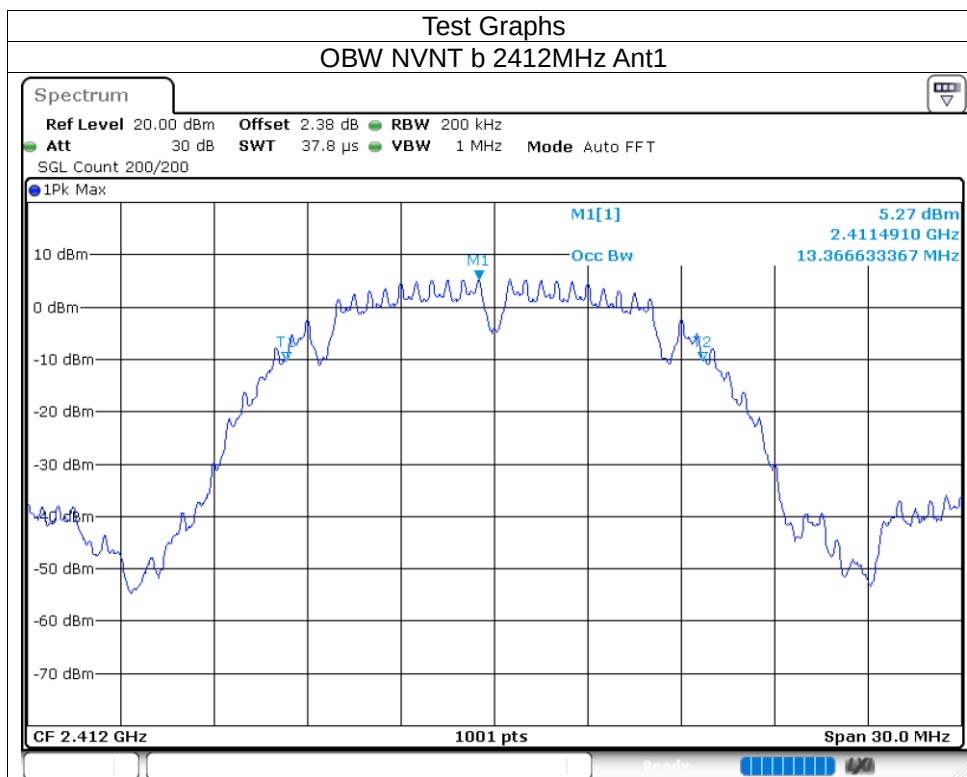


-6dB Bandwidth NVNT ax40 2452MHz Ant2

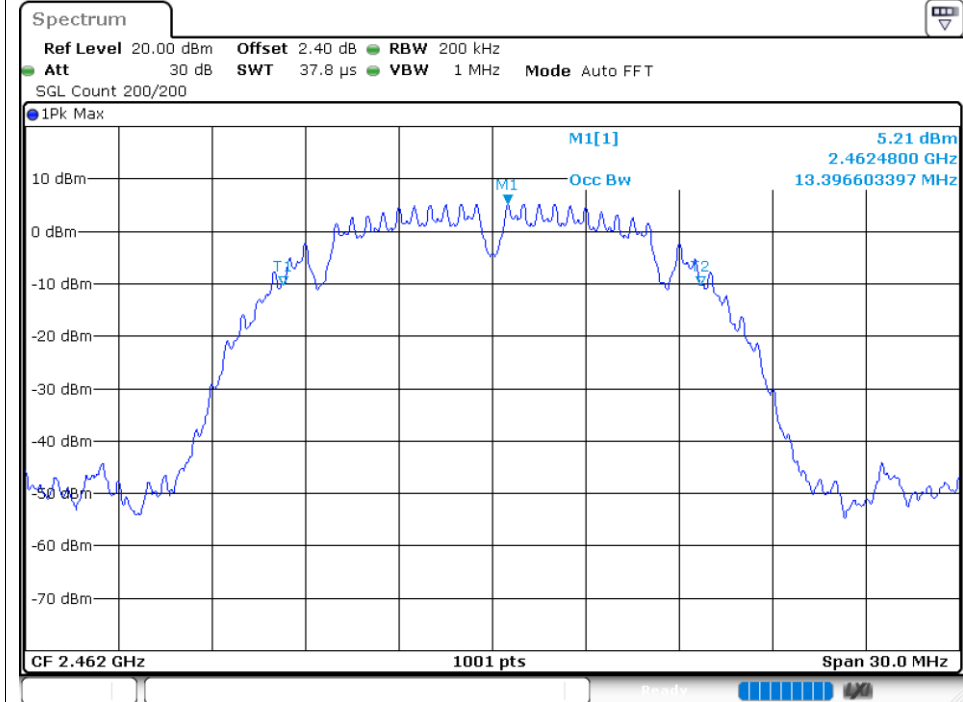


8.1.4 Occupied Channel Bandwidth

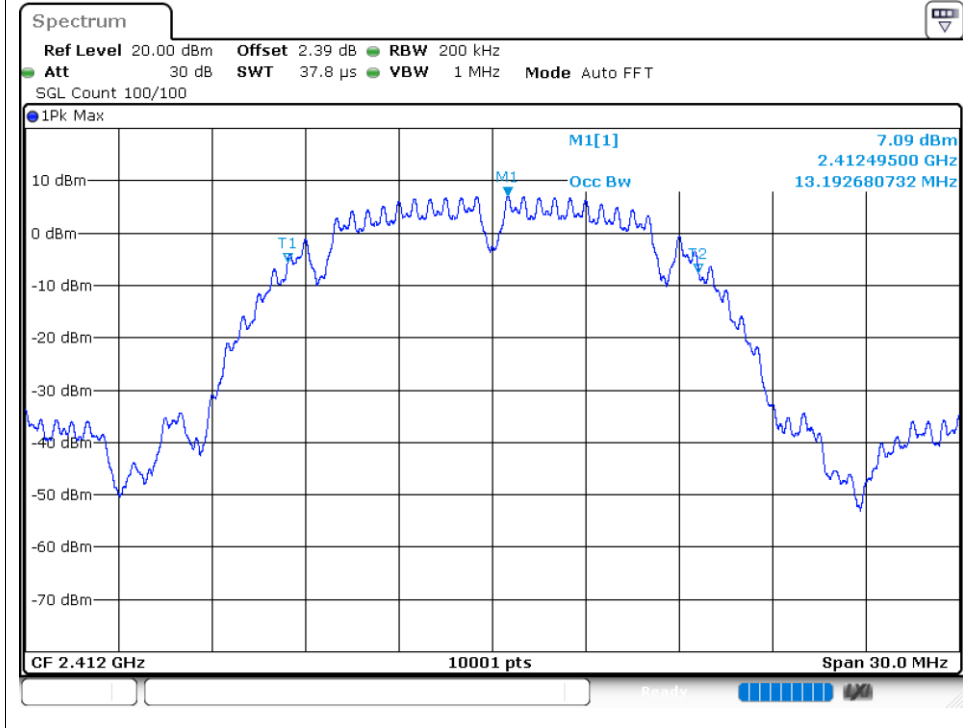
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.367
NVNT	b	2437	Ant1	13.427
NVNT	b	2462	Ant1	13.397
NVNT	b	2412	Ant2	13.193
NVNT	b	2437	Ant2	13.34
NVNT	b	2462	Ant2	13.316
NVNT	g	2412	Ant1	16.654
NVNT	g	2437	Ant1	16.624
NVNT	g	2462	Ant1	16.63
NVNT	g	2412	Ant2	16.729
NVNT	g	2437	Ant2	16.702
NVNT	g	2462	Ant2	16.549
NVNT	n20	2412	Ant1	17.686
NVNT	n20	2437	Ant1	17.761
NVNT	n20	2462	Ant1	17.947
NVNT	n20	2412	Ant2	17.704
NVNT	n20	2437	Ant2	17.68
NVNT	n20	2462	Ant2	17.686
NVNT	n40	2422	Ant1	35.996
NVNT	n40	2437	Ant1	35.93
NVNT	n40	2452	Ant1	35.966
NVNT	n40	2422	Ant2	35.96
NVNT	n40	2437	Ant2	35.966
NVNT	n40	2452	Ant2	35.972
NVNT	ax20	2412	Ant1	18.829
NVNT	ax20	2437	Ant1	18.856
NVNT	ax20	2462	Ant1	18.952
NVNT	ax20	2412	Ant2	18.847
NVNT	ax20	2437	Ant2	18.886
NVNT	ax20	2462	Ant2	18.859
NVNT	ax40	2422	Ant1	37.454
NVNT	ax40	2437	Ant1	37.358
NVNT	ax40	2452	Ant1	37.418
NVNT	ax40	2422	Ant2	37.4
NVNT	ax40	2437	Ant2	37.46
NVNT	ax40	2452	Ant2	37.43

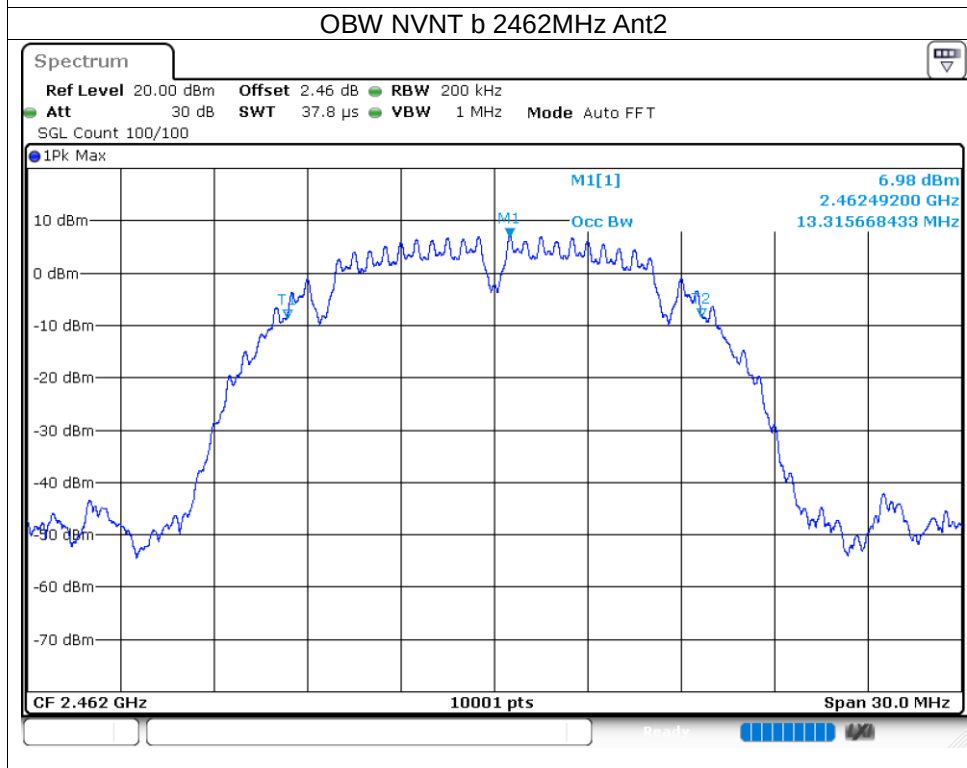
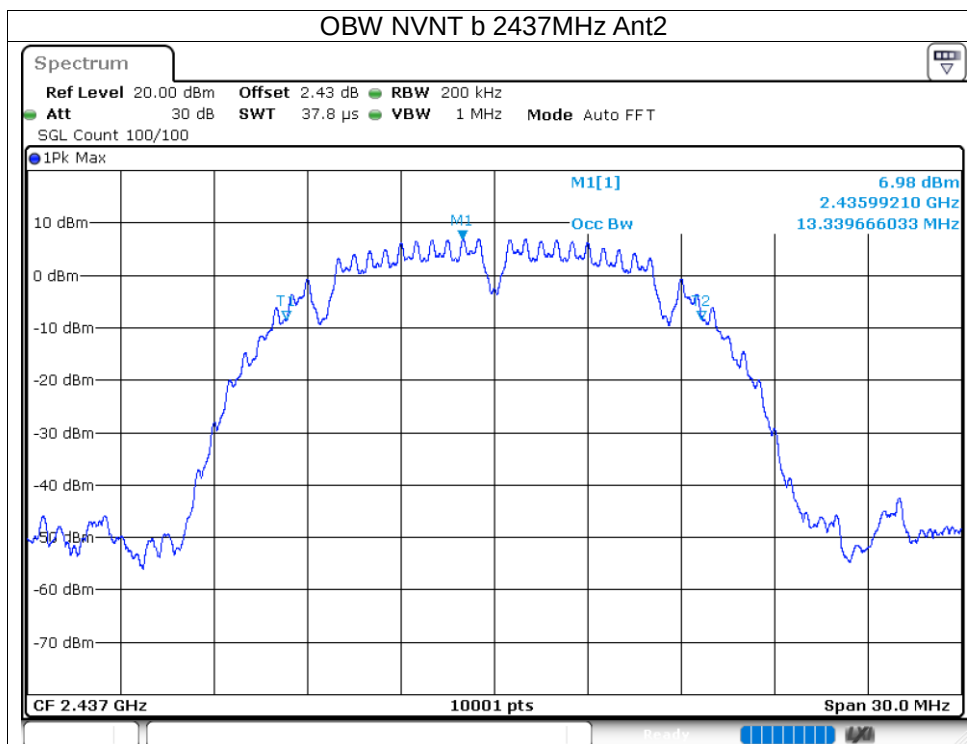


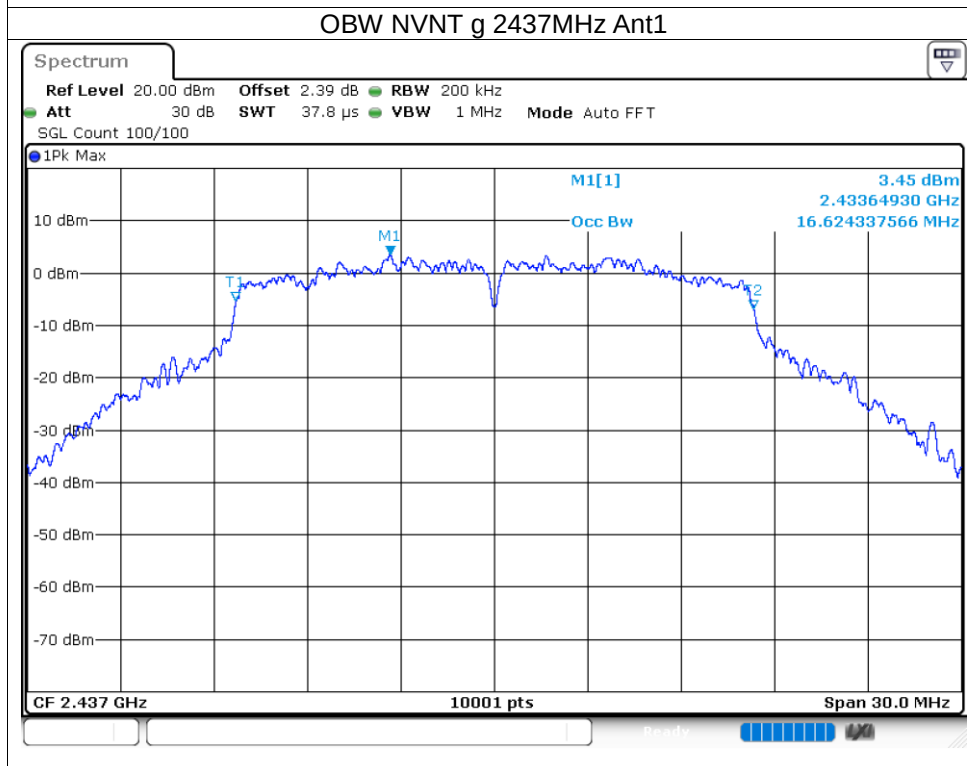
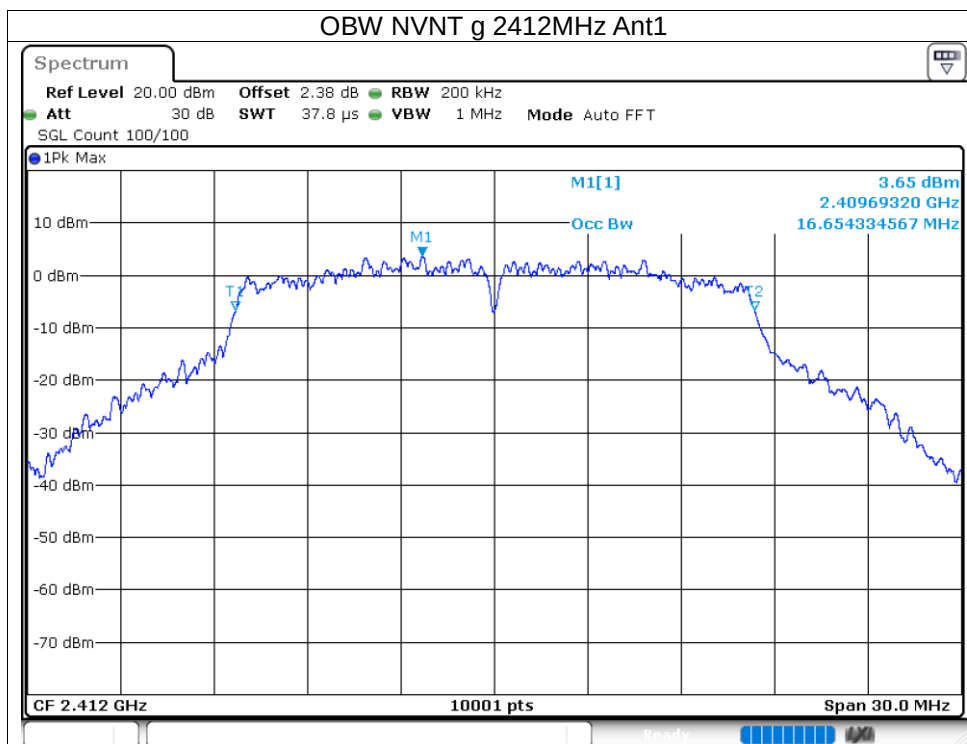
OBW NVNT b 2462MHz Ant1

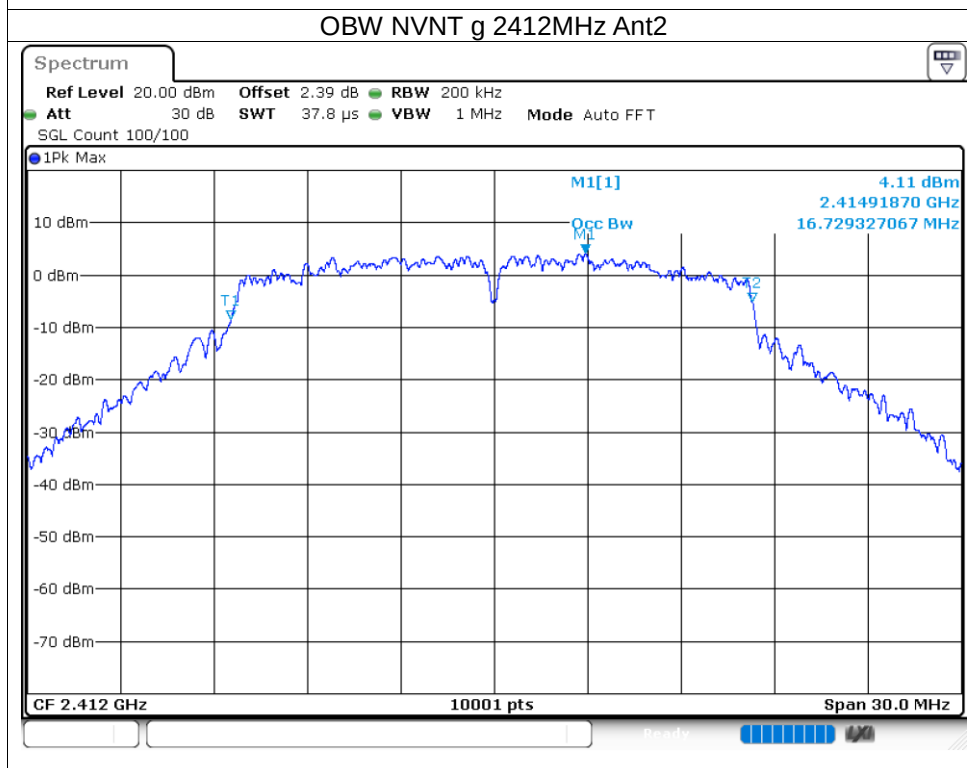
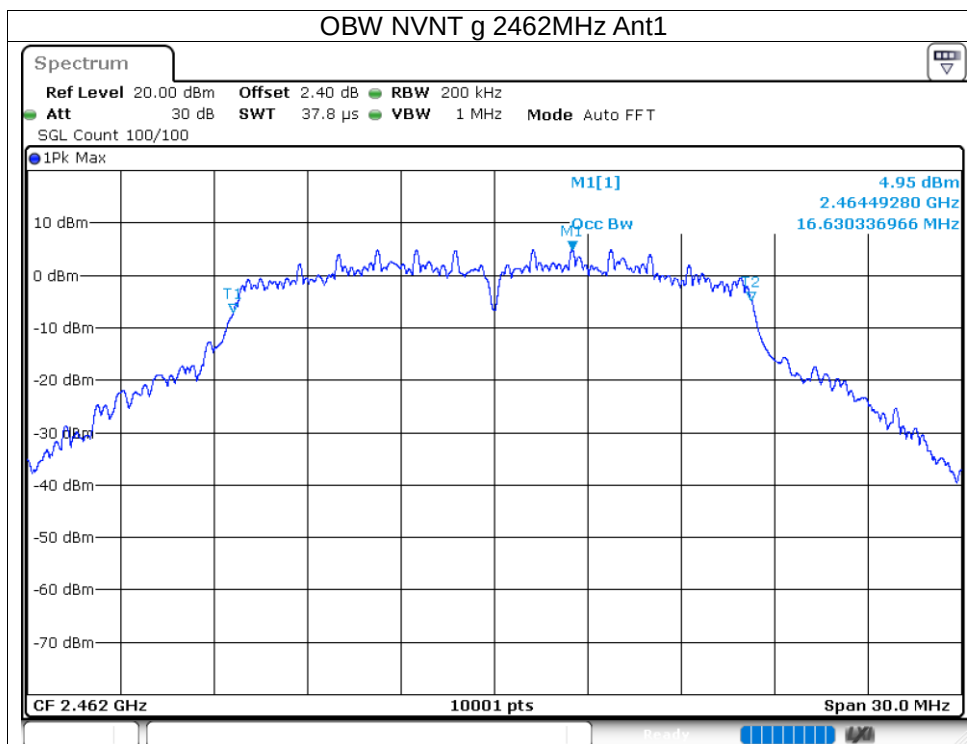


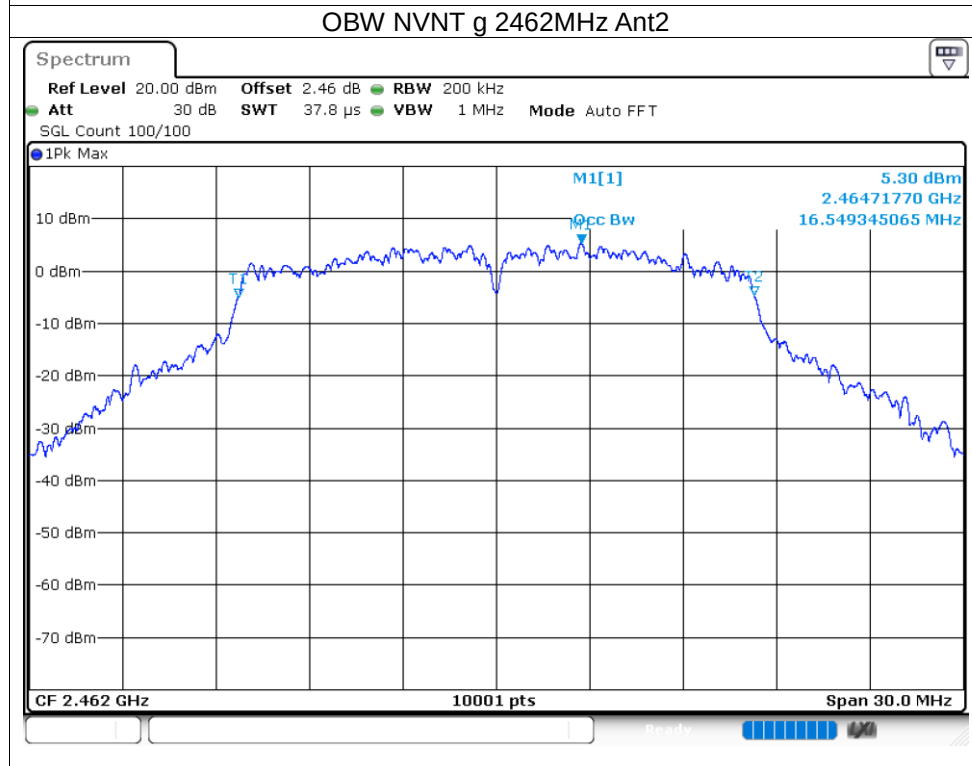
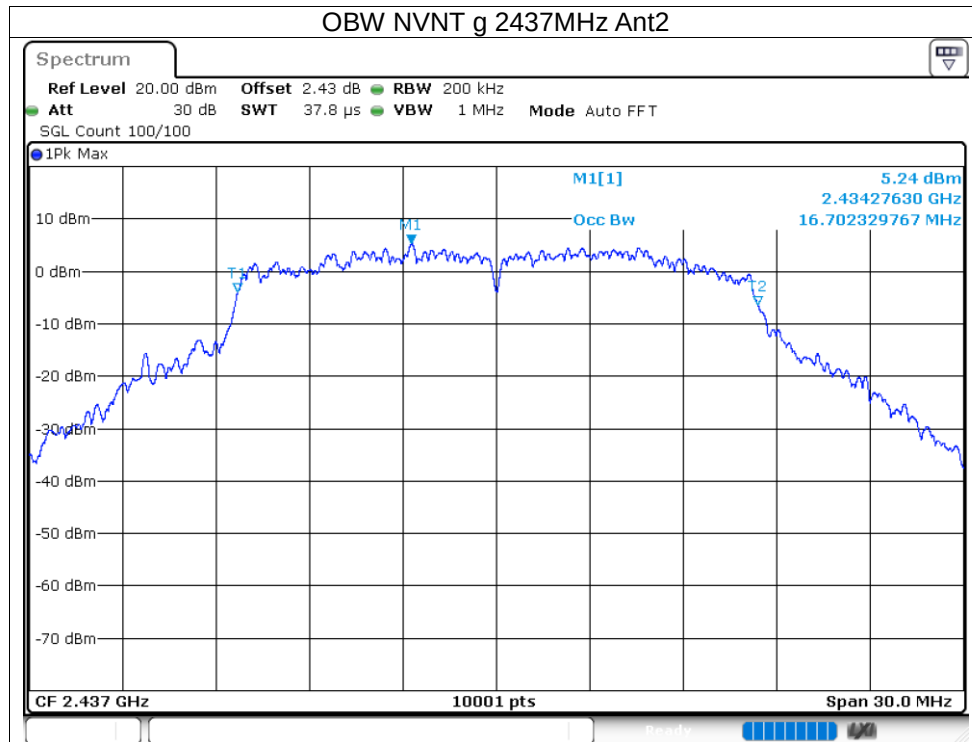
OBW NVNT b 2412MHz Ant2



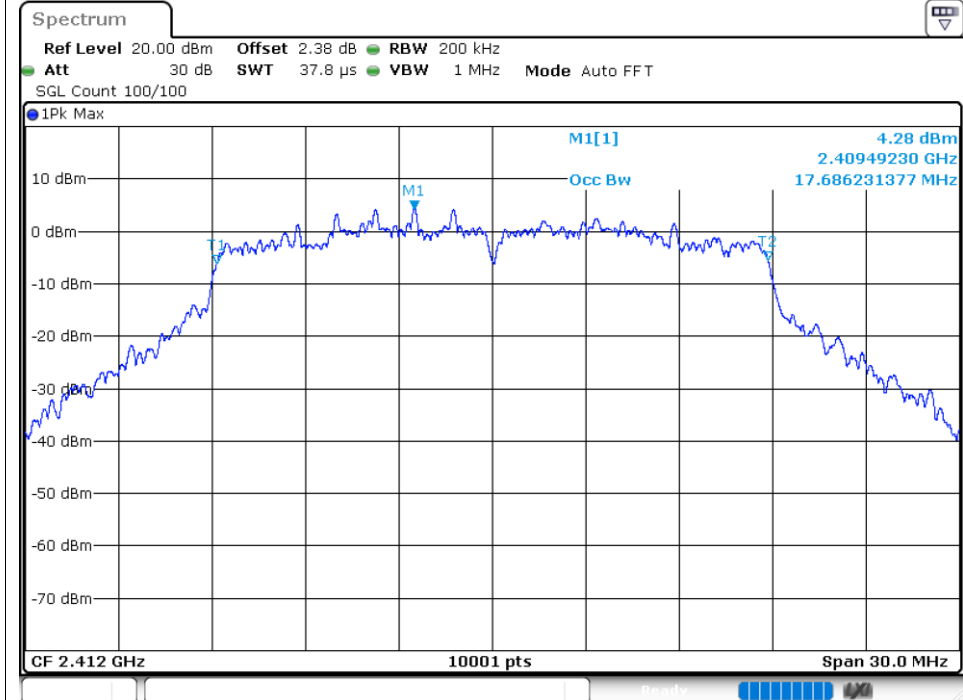




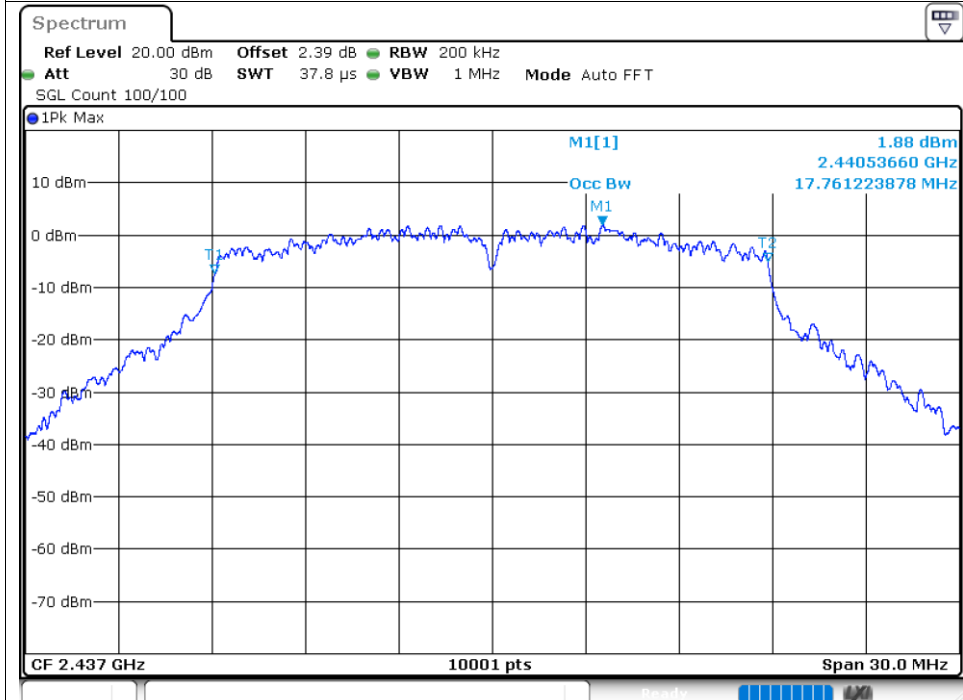




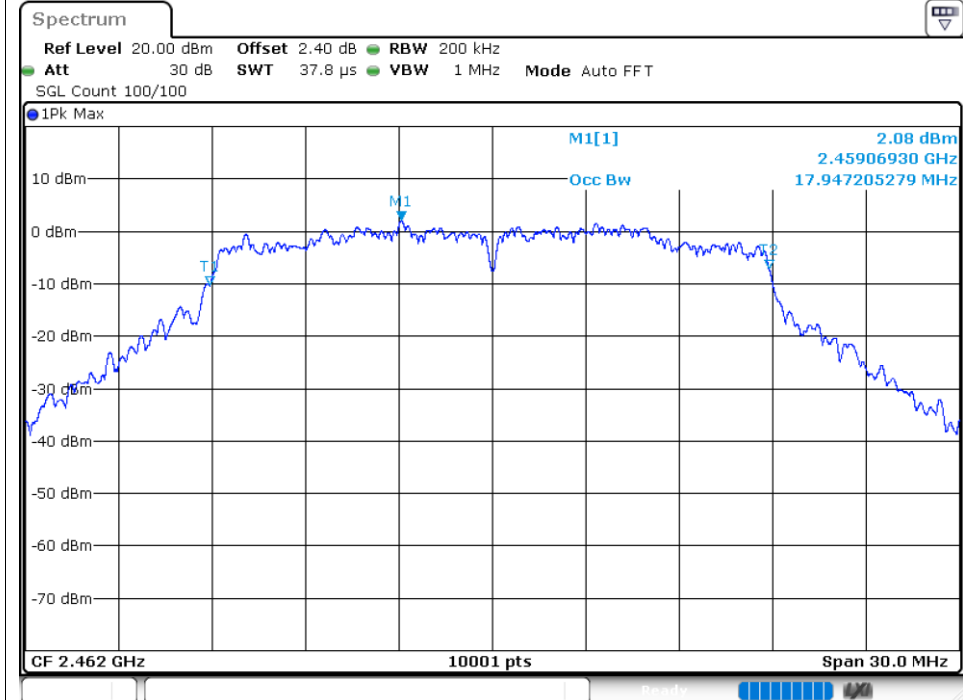
OBW NVNT n20 2412MHz Ant1



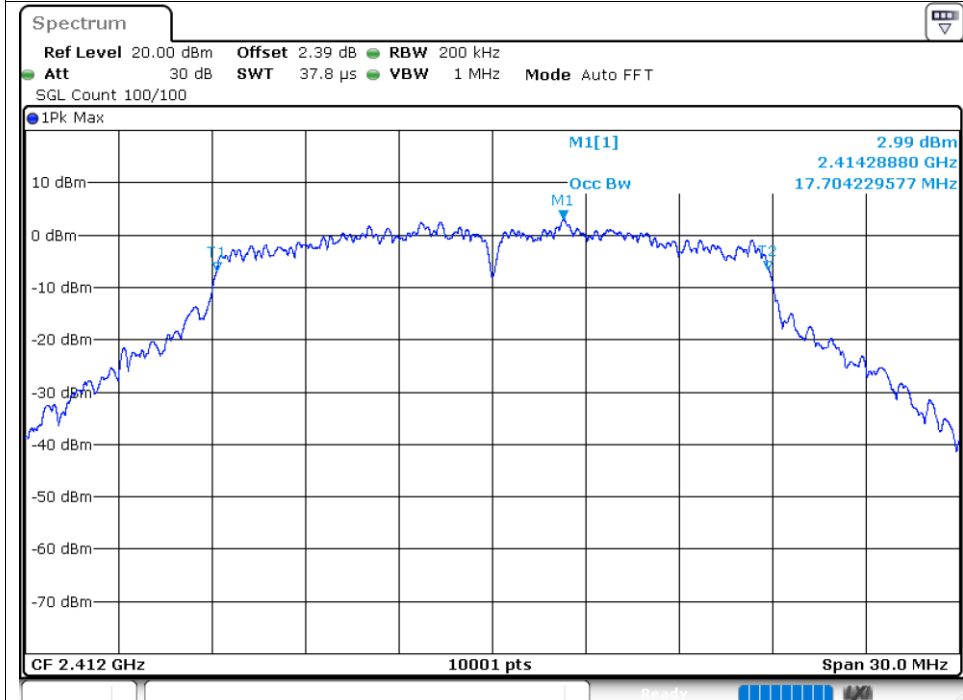
OBW NVNT n20 2437MHz Ant1



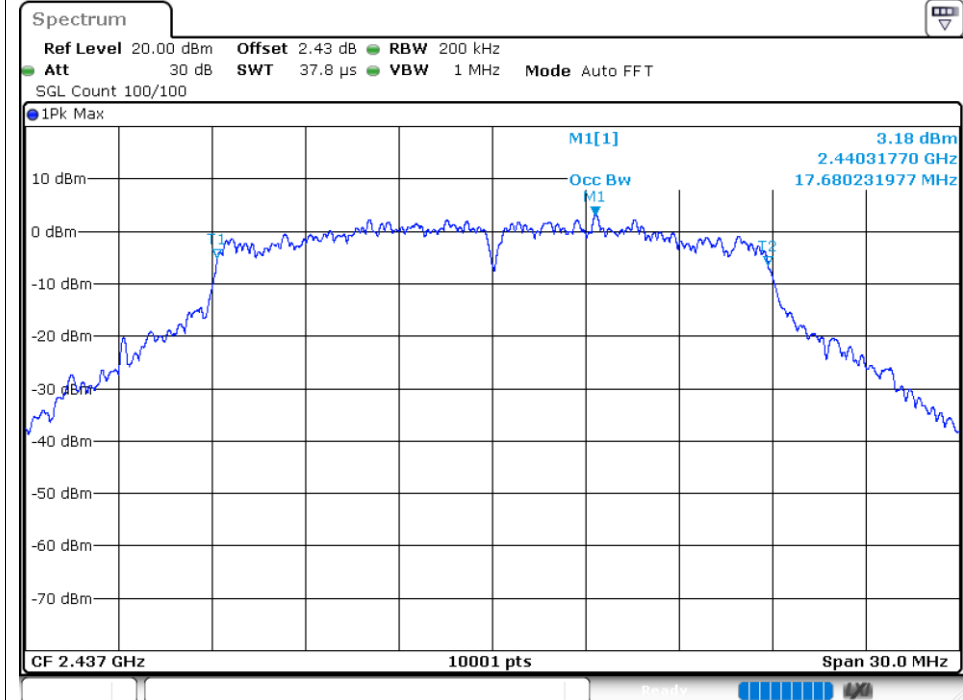
OBW NVNT n20 2462MHz Ant1



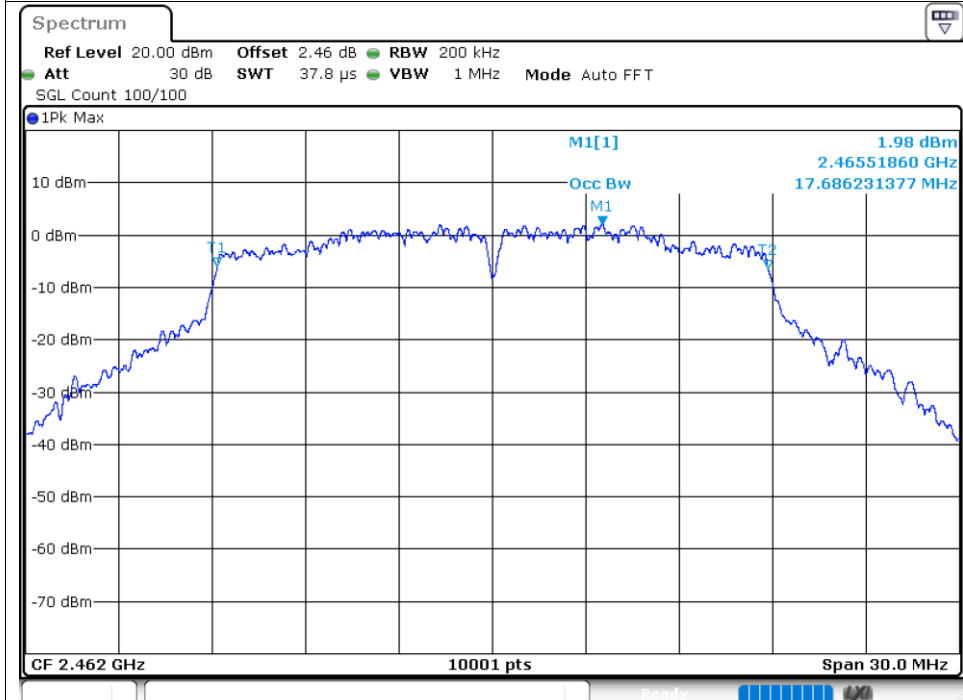
OBW NVNT n20 2412MHz Ant2



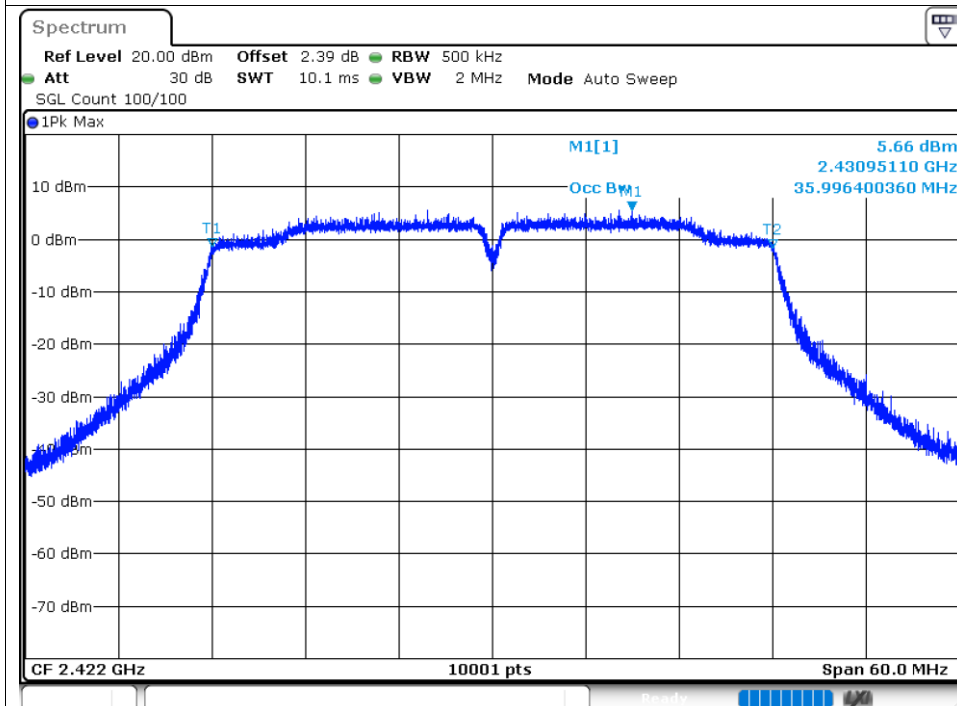
OBW NVNT n20 2437MHz Ant2



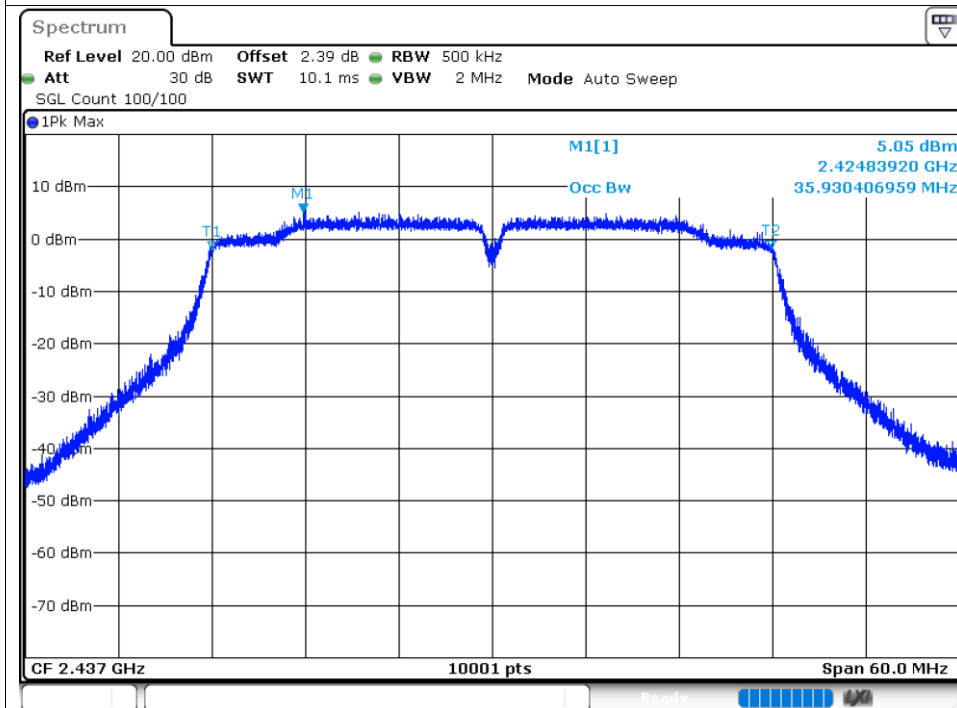
OBW NVNT n20 2462MHz Ant2



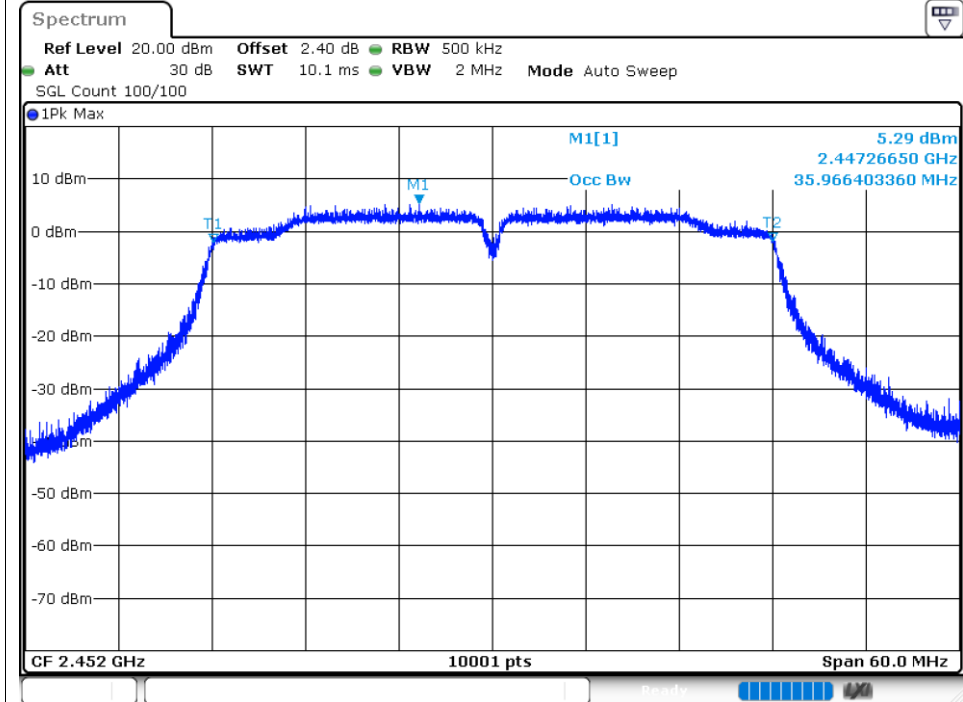
OBW NVNT n40 2422MHz Ant1



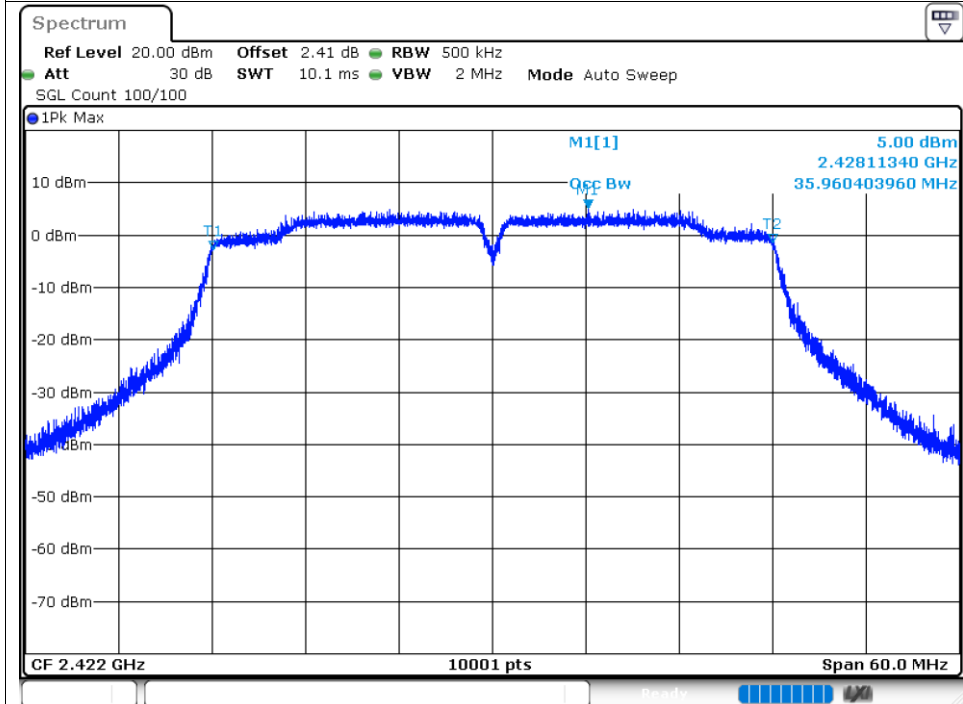
OBW NVNT n40 2437MHz Ant1



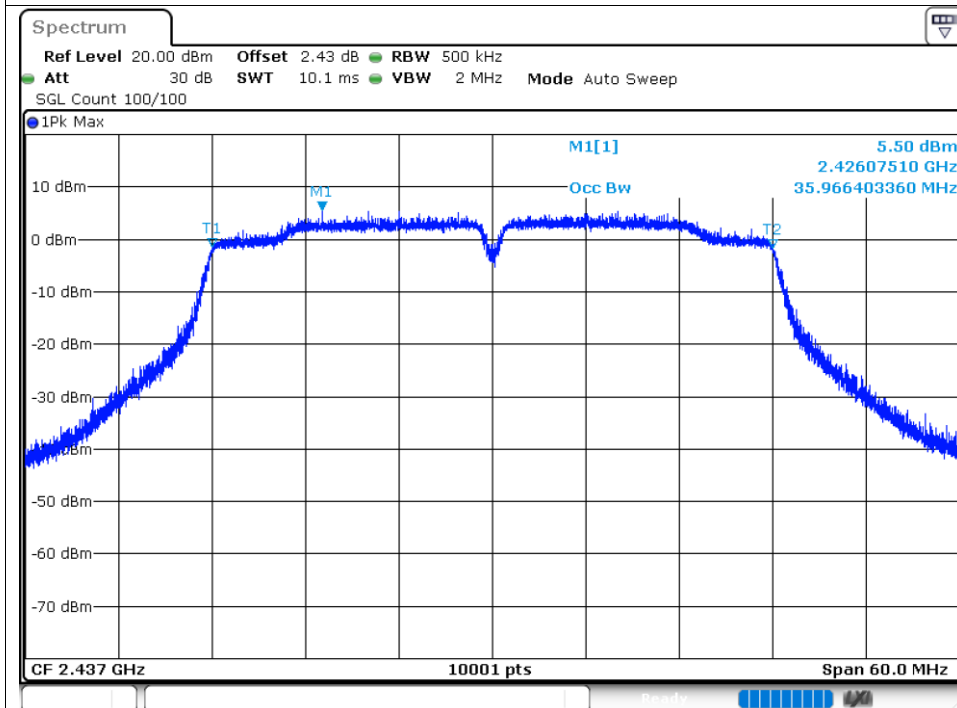
OBW NVNT n40 2452MHz Ant1



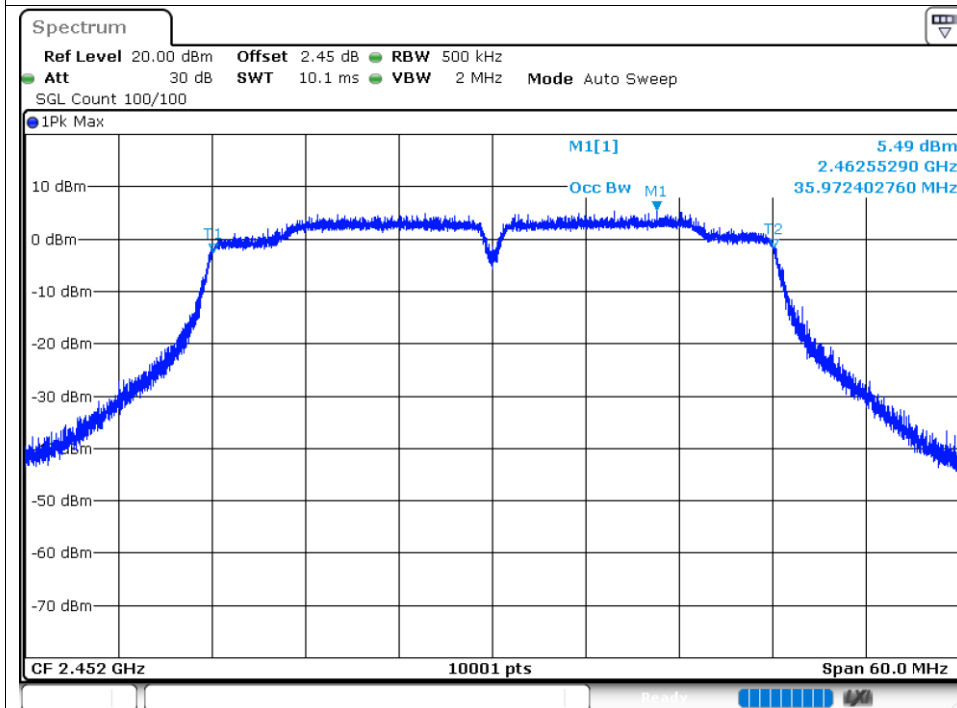
OBW NVNT n40 2422MHz Ant2



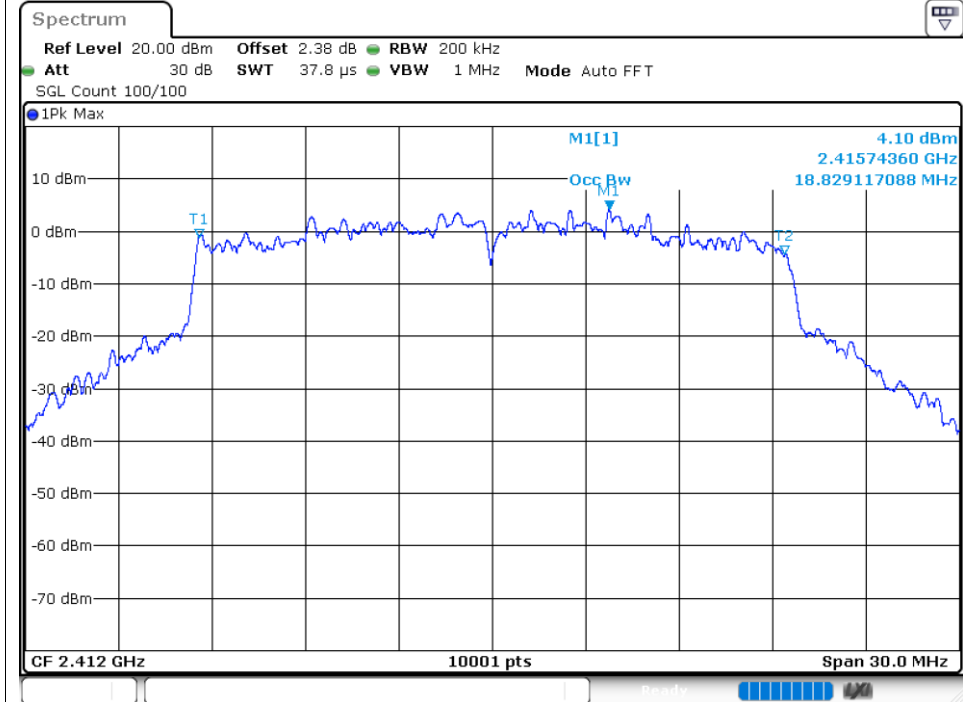
OBW NVNT n40 2437MHz Ant2



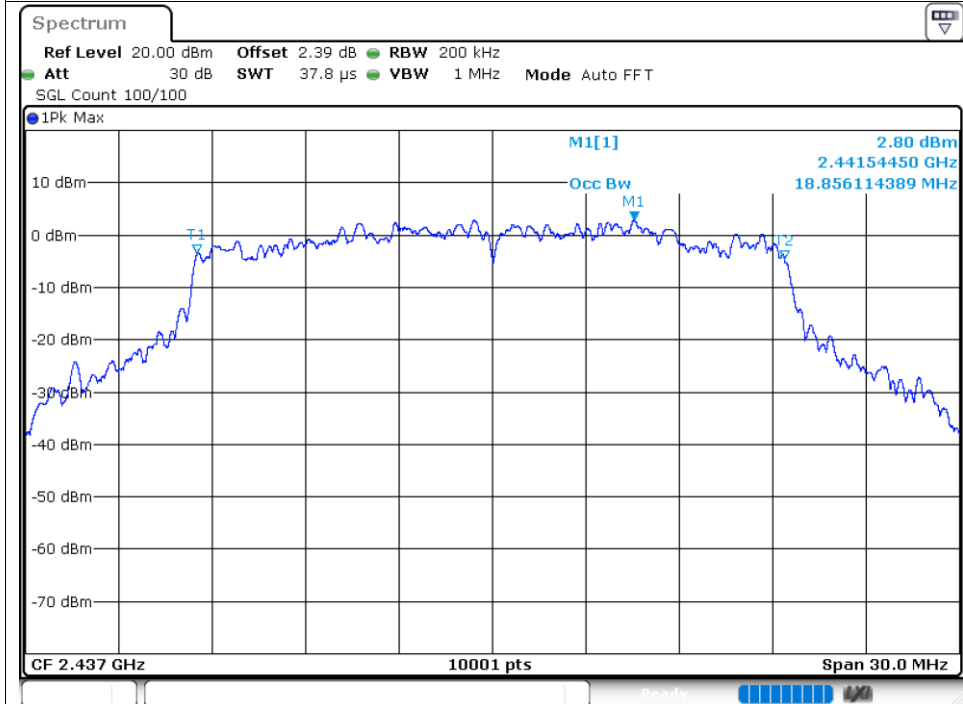
OBW NVNT n40 2452MHz Ant2



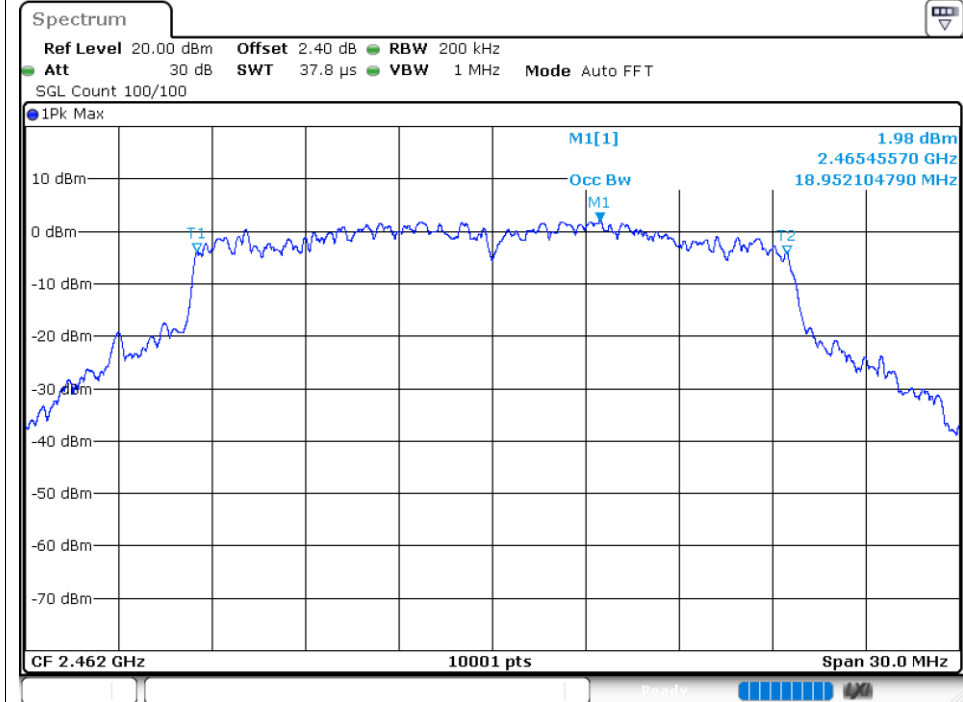
OBW NVNT ax20 2412MHz Ant1



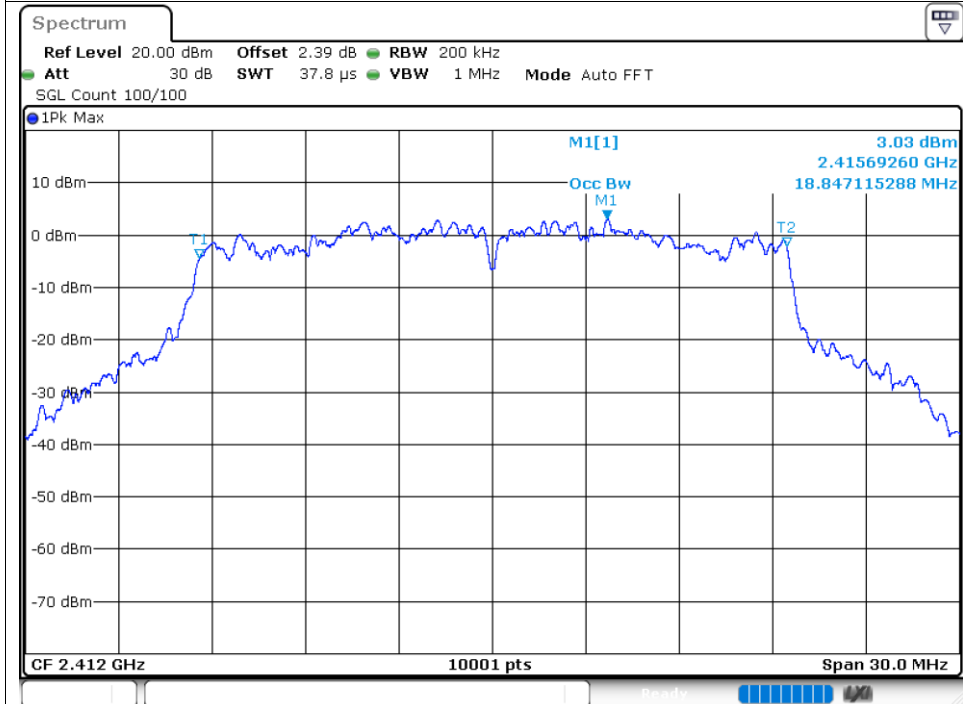
OBW NVNT ax20 2437MHz Ant1

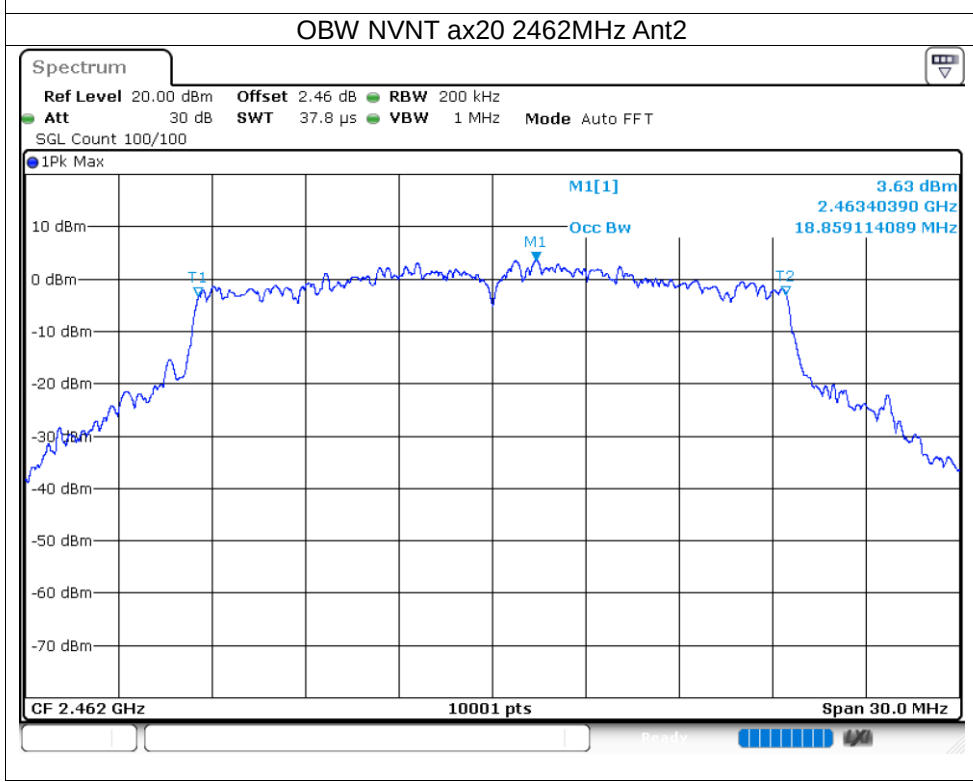
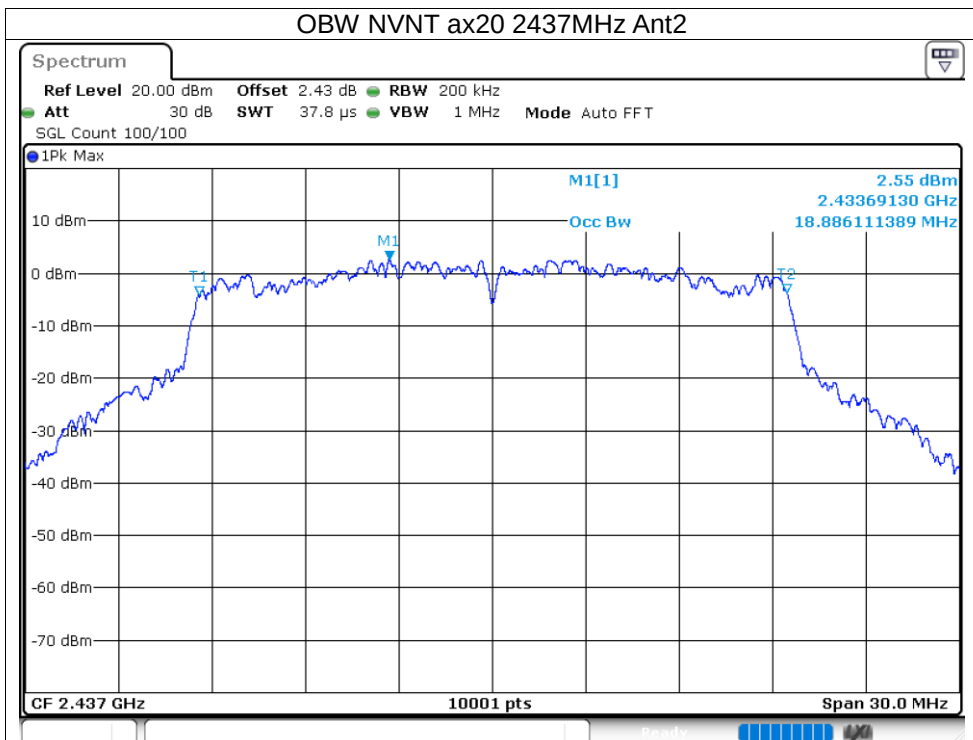


OBW NVNT ax20 2462MHz Ant1

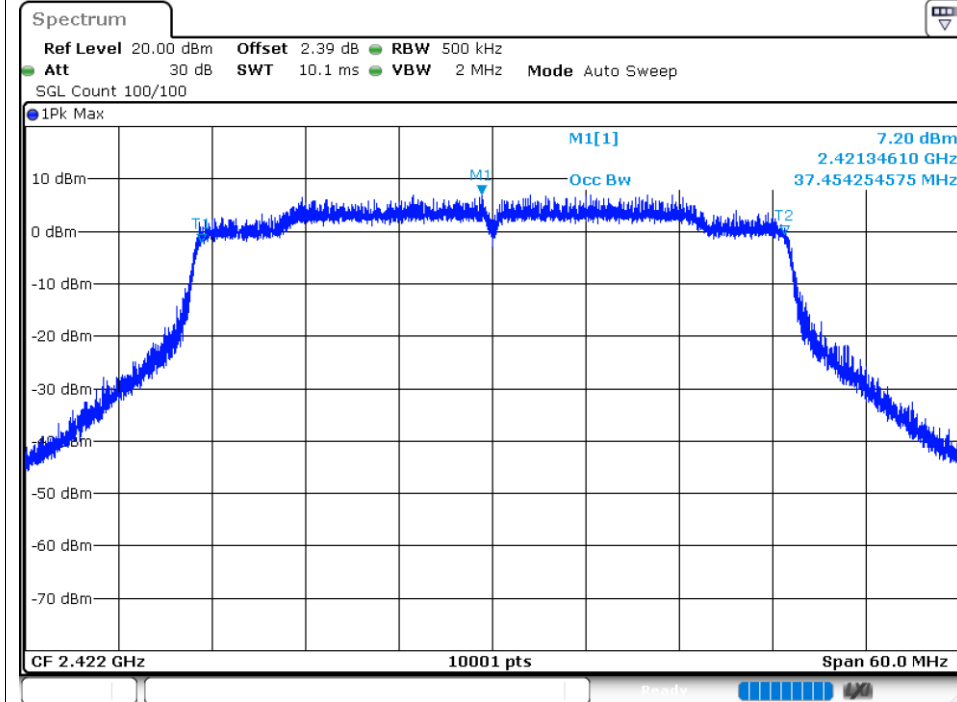


OBW NVNT ax20 2412MHz Ant2

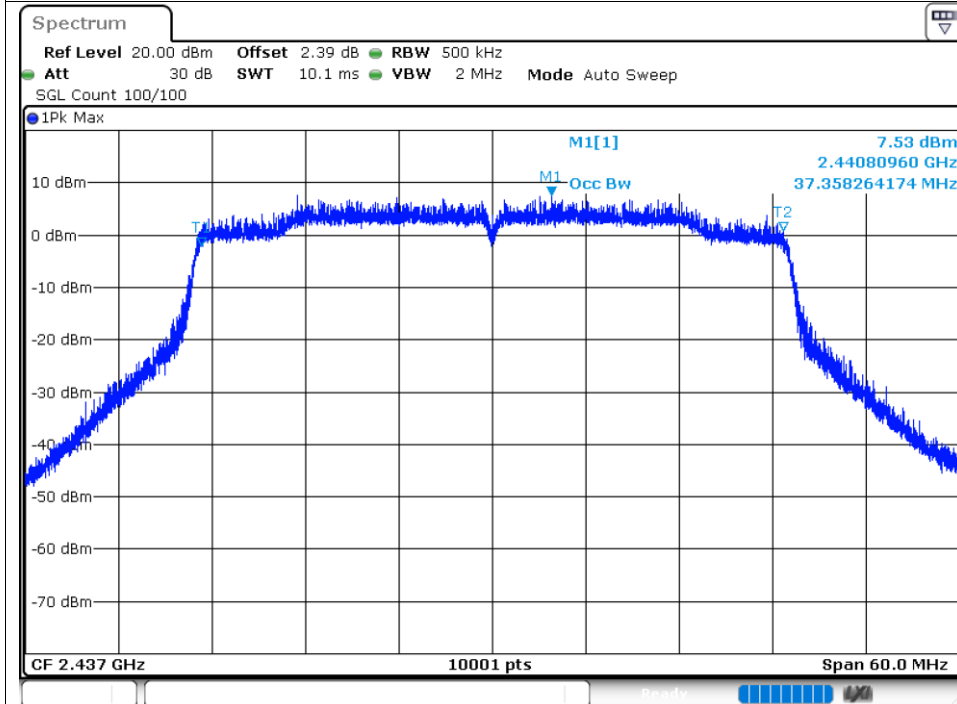


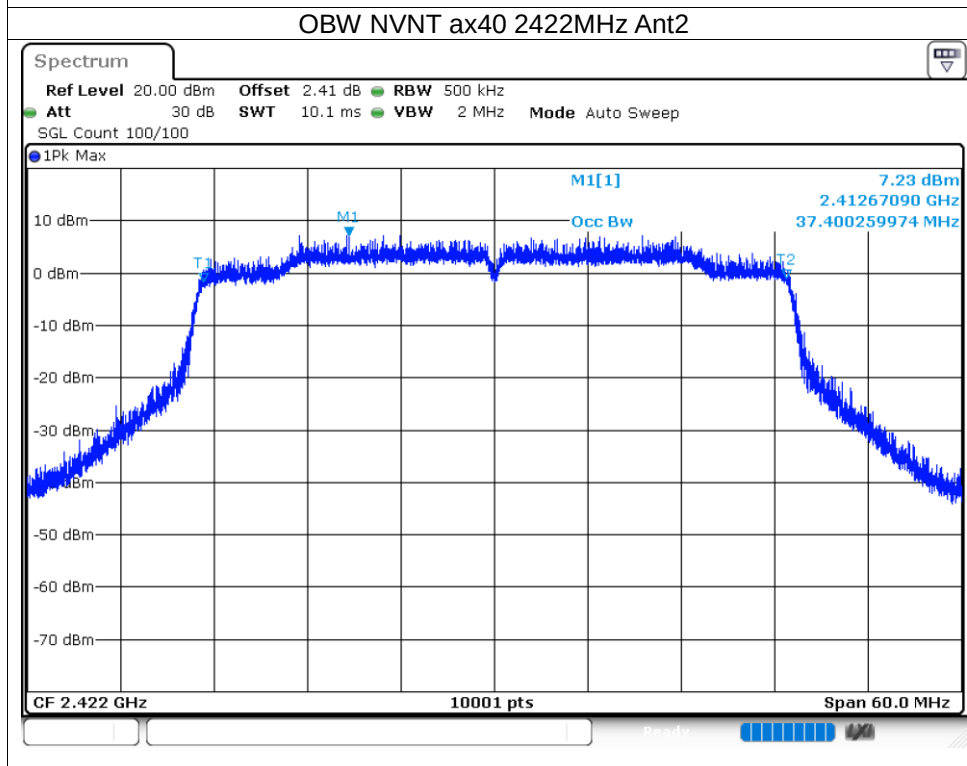
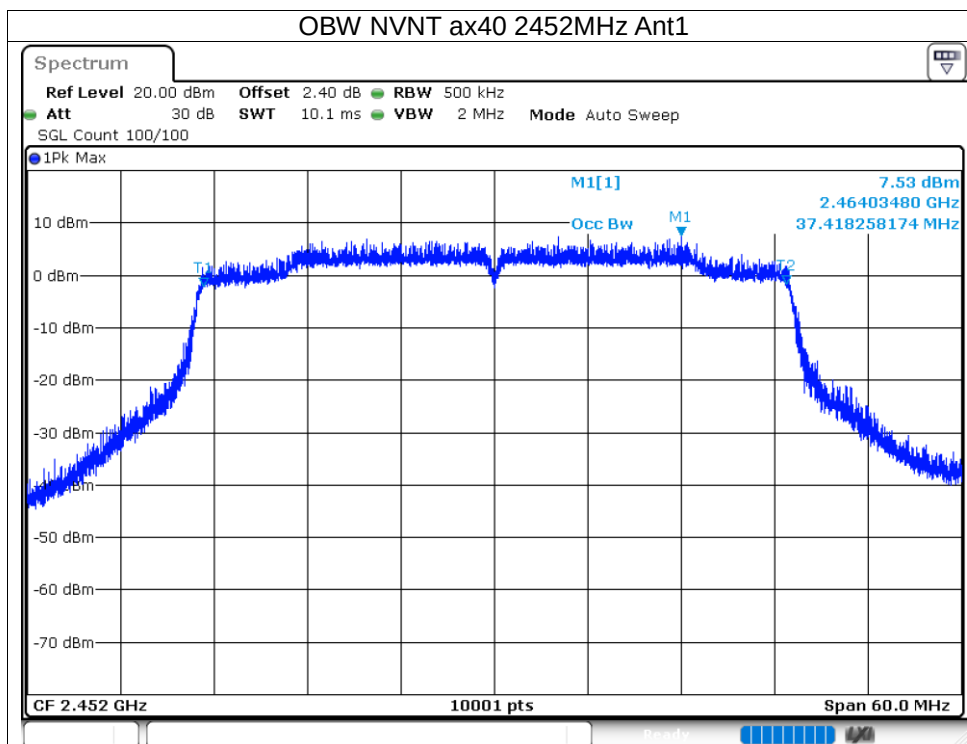


OBW NVNT ax40 2422MHz Ant1

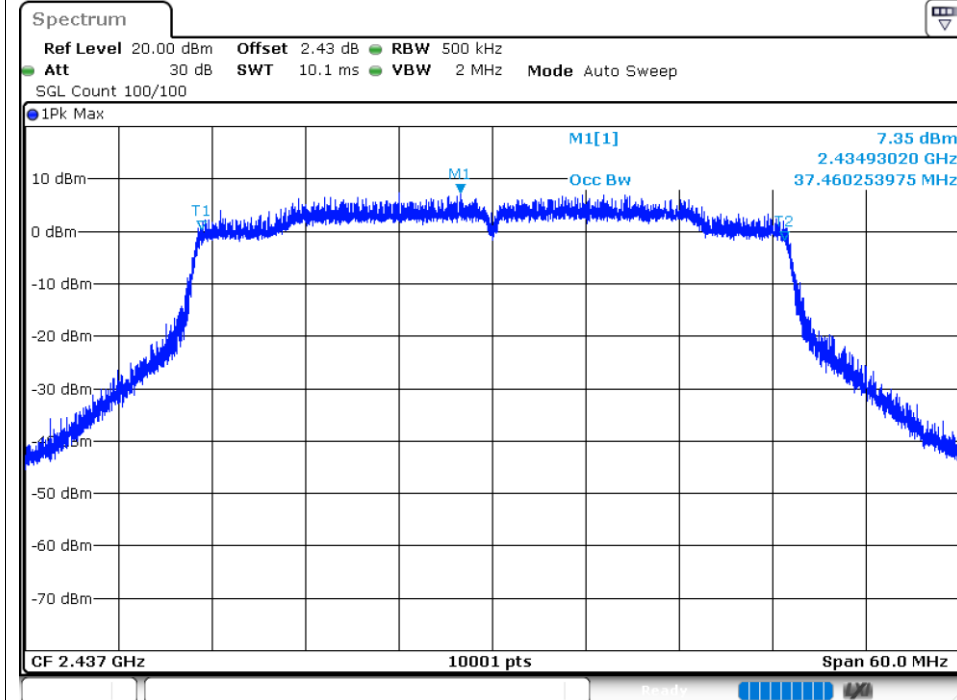


OBW NVNT ax40 2437MHz Ant1

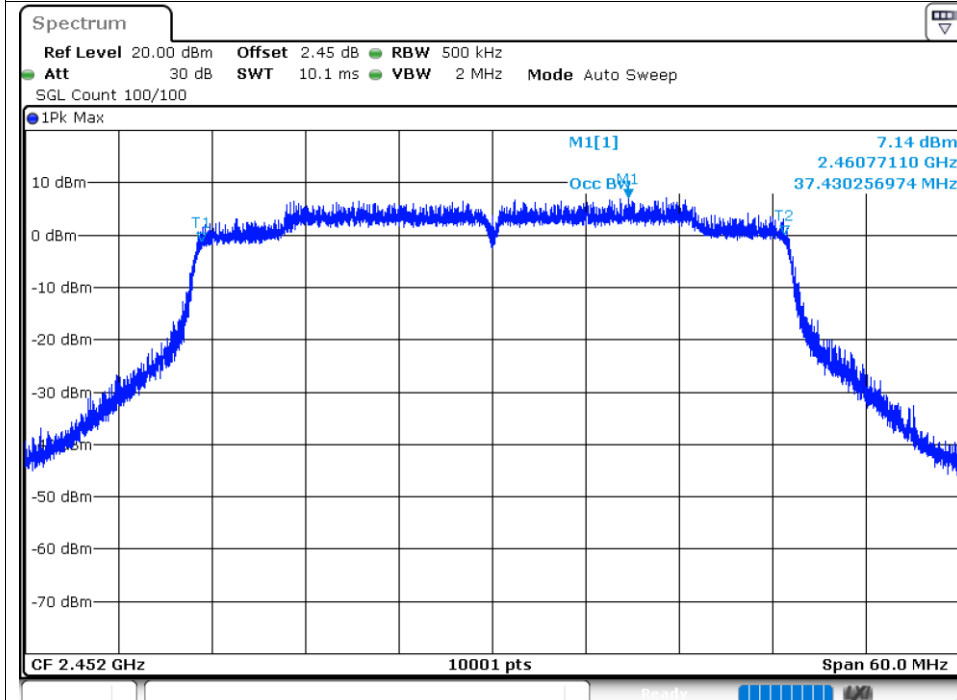




OBW NVNT ax40 2437MHz Ant2



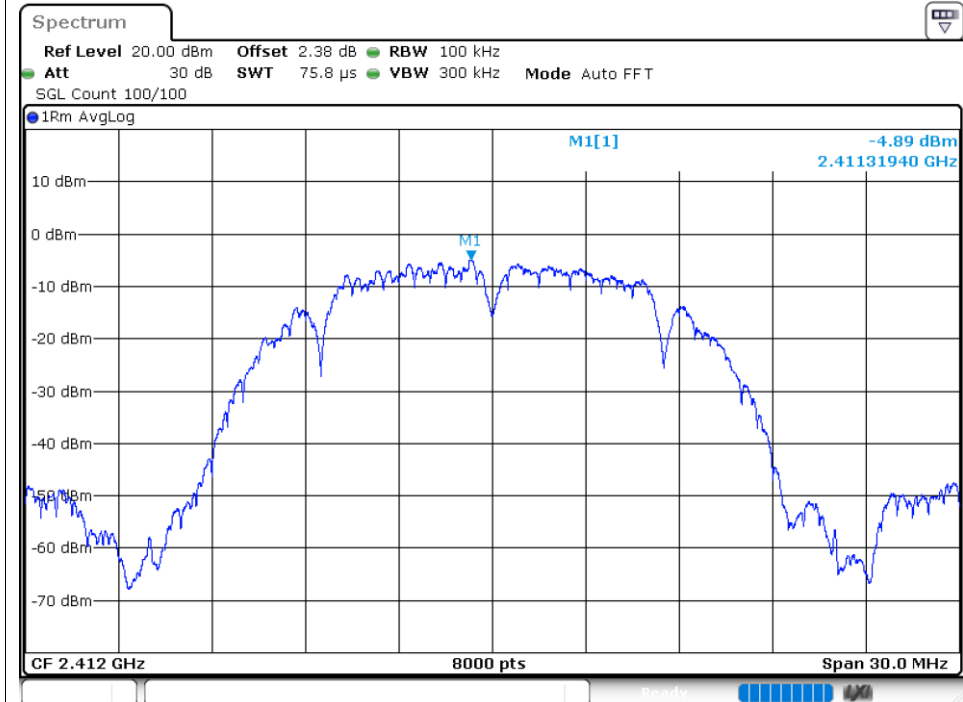
OBW NVNT ax40 2452MHz Ant2



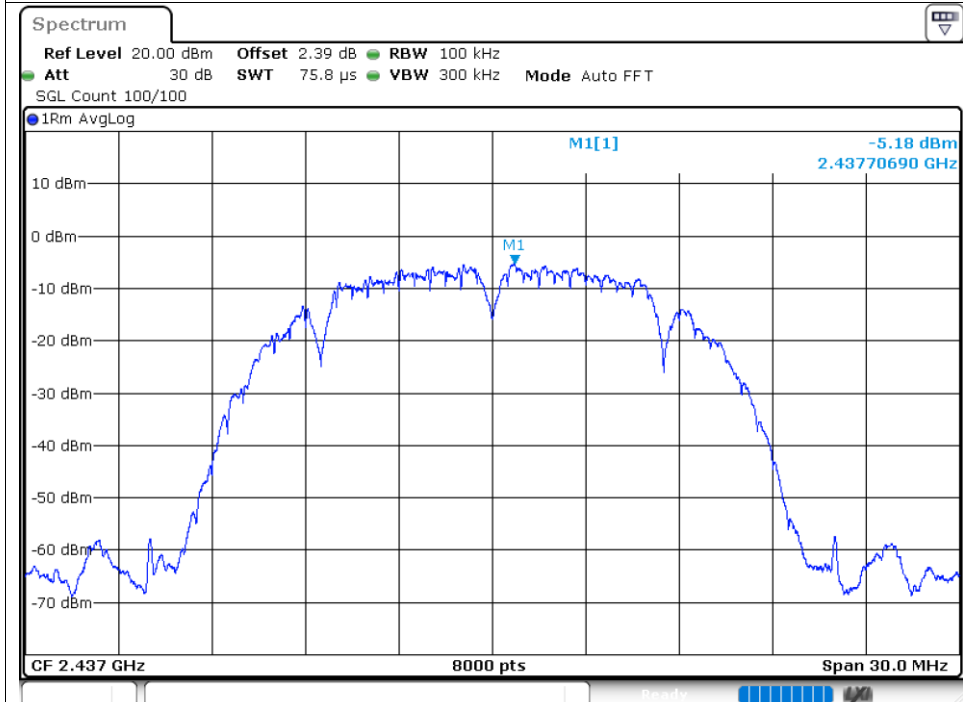
8.1.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-4.89	0.01	-4.88	8	Pass
NVNT	b	2437	Ant1	-5.18	0.01	-5.17	8	Pass
NVNT	b	2462	Ant1	-5.16	0.01	-5.15	8	Pass
NVNT	b	2412	Ant2	-3.23	0.01	-3.22	8	Pass
NVNT	b	2437	Ant2	-3.53	0.02	-3.51	8	Pass
NVNT	b	2462	Ant2	-3.03	0.02	-3.01	8	Pass
NVNT	g	2412	Ant1	-7.13	0.08	-7.05	8	Pass
NVNT	g	2437	Ant1	-6.33	0.07	-6.26	8	Pass
NVNT	g	2462	Ant1	-6.48	0.08	-6.4	8	Pass
NVNT	g	2412	Ant2	-5.14	0.08	-5.06	8	Pass
NVNT	g	2437	Ant2	-4.34	0.08	-4.26	8	Pass
NVNT	g	2462	Ant2	-5.09	0.08	-5.01	8	Pass
NVNT	n20	2412	Ant1	-7.38	0.04	-7.34	8	Pass
NVNT	n20	2437	Ant1	-7.56	0.04	-7.52	8	Pass
NVNT	n20	2462	Ant1	-7.86	0.04	-7.82	8	Pass
NVNT	n20	2412	Ant2	-7.11	0.04	-7.07	8	Pass
NVNT	n20	2437	Ant2	-6.91	0.04	-6.87	8	Pass
NVNT	n20	2462	Ant2	-7.98	0.04	-7.94	8	Pass
NVNT	n40	2422	Ant1	-9.73	0.04	-9.69	8	Pass
NVNT	n40	2437	Ant1	-9.81	0.04	-9.77	8	Pass
NVNT	n40	2452	Ant1	-9.6	0.04	-9.56	8	Pass
NVNT	n40	2422	Ant2	-9.61	0.04	-9.57	8	Pass
NVNT	n40	2437	Ant2	-9.63	0.04	-9.59	8	Pass
NVNT	n40	2452	Ant2	-9.66	0.04	-9.62	8	Pass
NVNT	ax20	2412	Ant1	-9.06	0.04	-9.02	8	Pass
NVNT	ax20	2437	Ant1	-9.49	0.04	-9.45	8	Pass
NVNT	ax20	2462	Ant1	-9.4	0.04	-9.36	8	Pass
NVNT	ax20	2412	Ant2	-9.68	0.04	-9.64	8	Pass
NVNT	ax20	2437	Ant2	-9.24	0.04	-9.2	8	Pass
NVNT	ax20	2462	Ant2	-8.8	0.04	-8.76	8	Pass
NVNT	ax40	2422	Ant1	-11.2	0.04	-11.16	8	Pass
NVNT	ax40	2437	Ant1	-11.25	0.04	-11.21	8	Pass
NVNT	ax40	2452	Ant1	-11.36	0.04	-11.32	8	Pass
NVNT	ax40	2422	Ant2	-11.5	0.04	-11.46	8	Pass
NVNT	ax40	2437	Ant2	-11.23	0.04	-11.19	8	Pass
NVNT	ax40	2452	Ant2	-11.43	0.04	-11.39	8	Pass

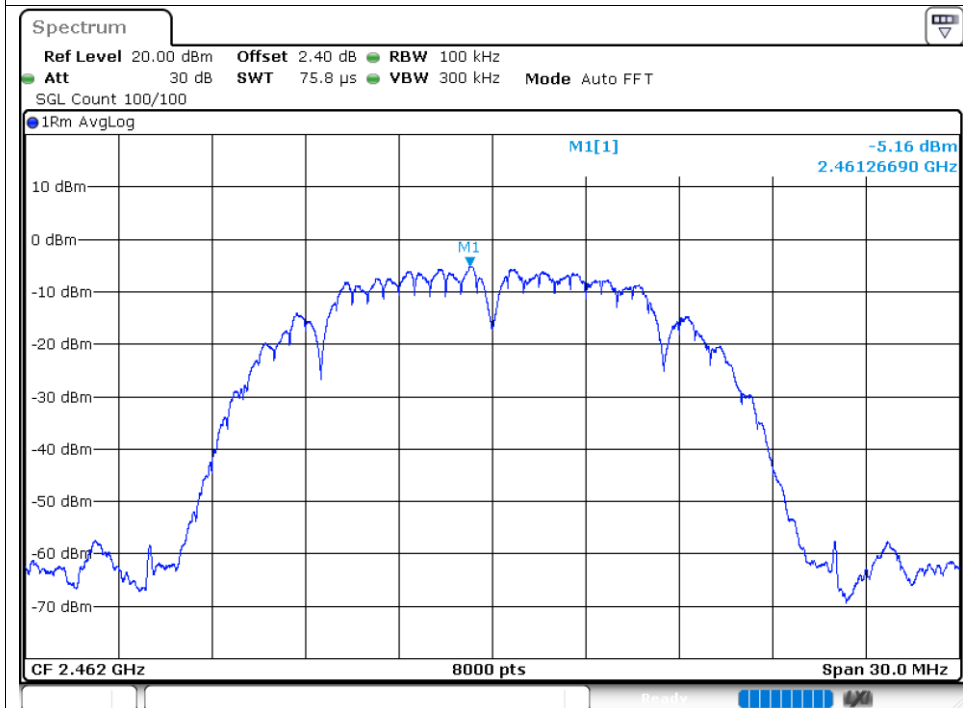
Test Graphs PSD NVNT b 2412MHz Ant1



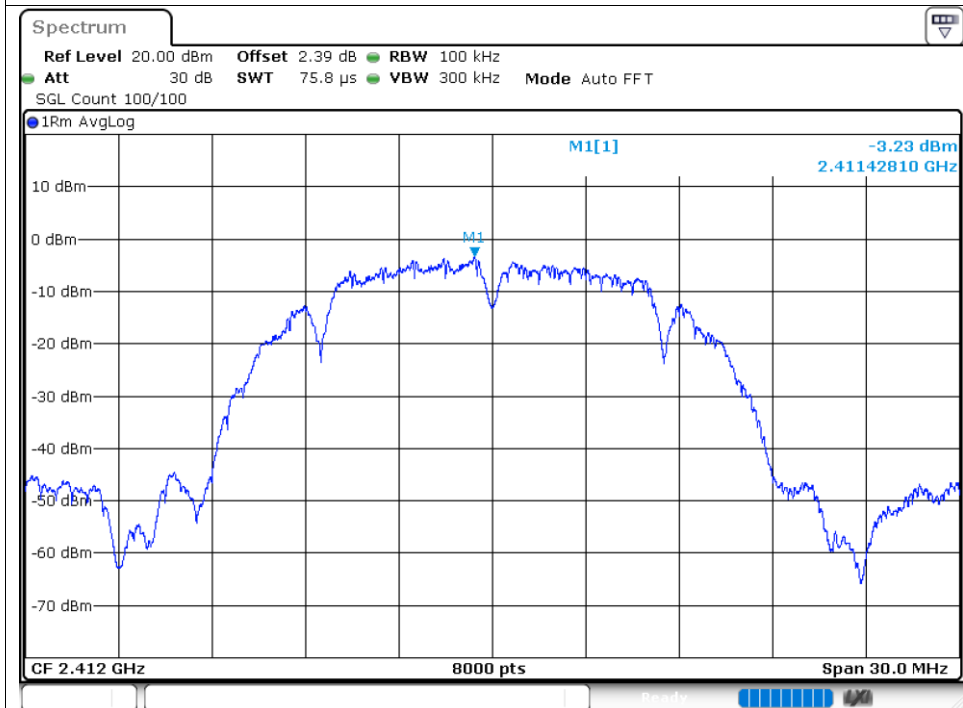
PSD NVNT b 2437MHz Ant1

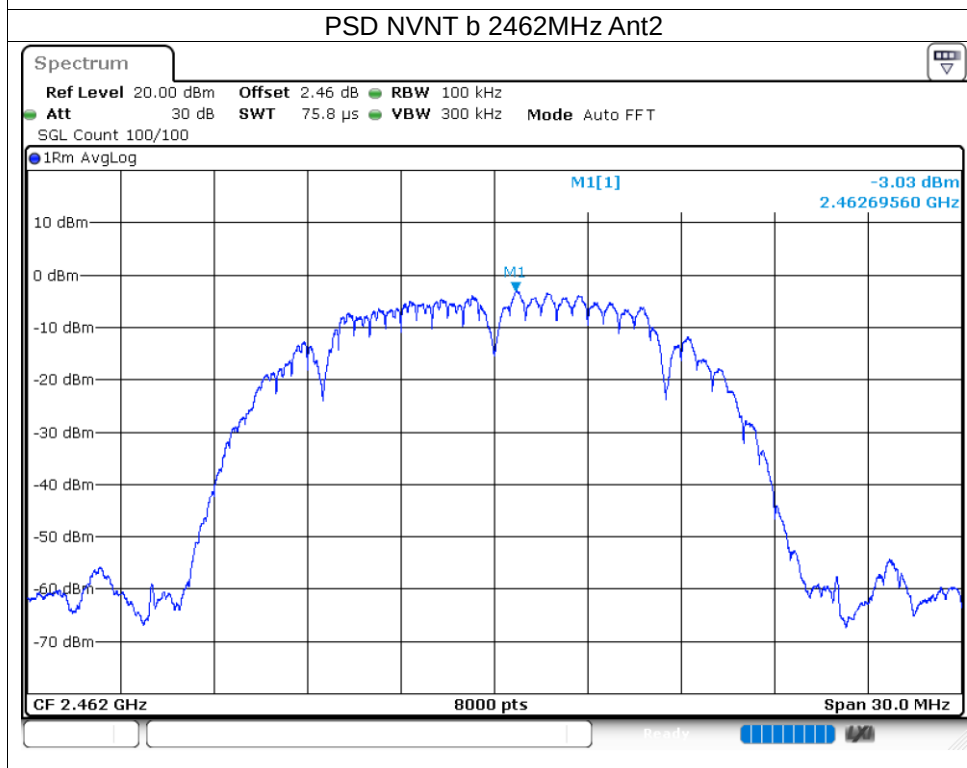
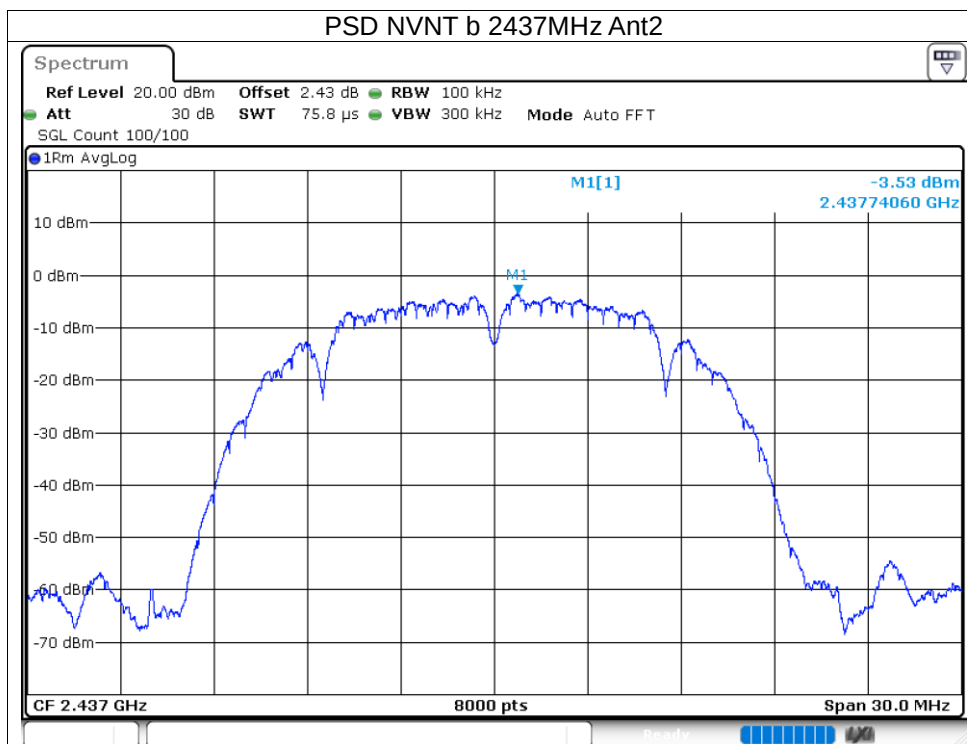


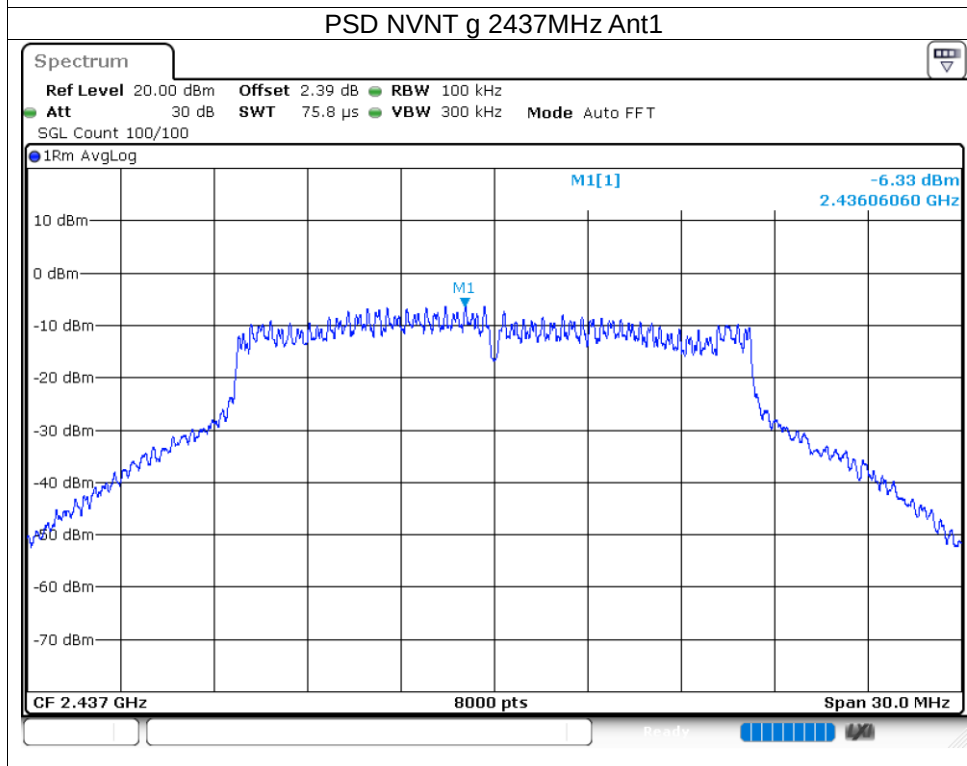
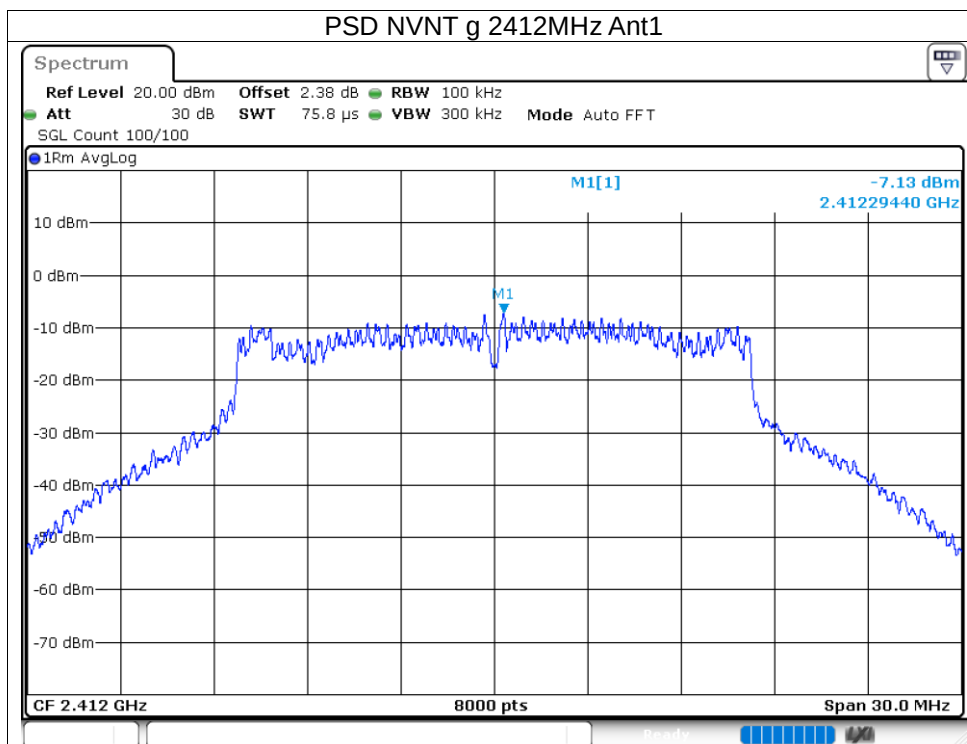
PSD NVNT b 2462MHz Ant1

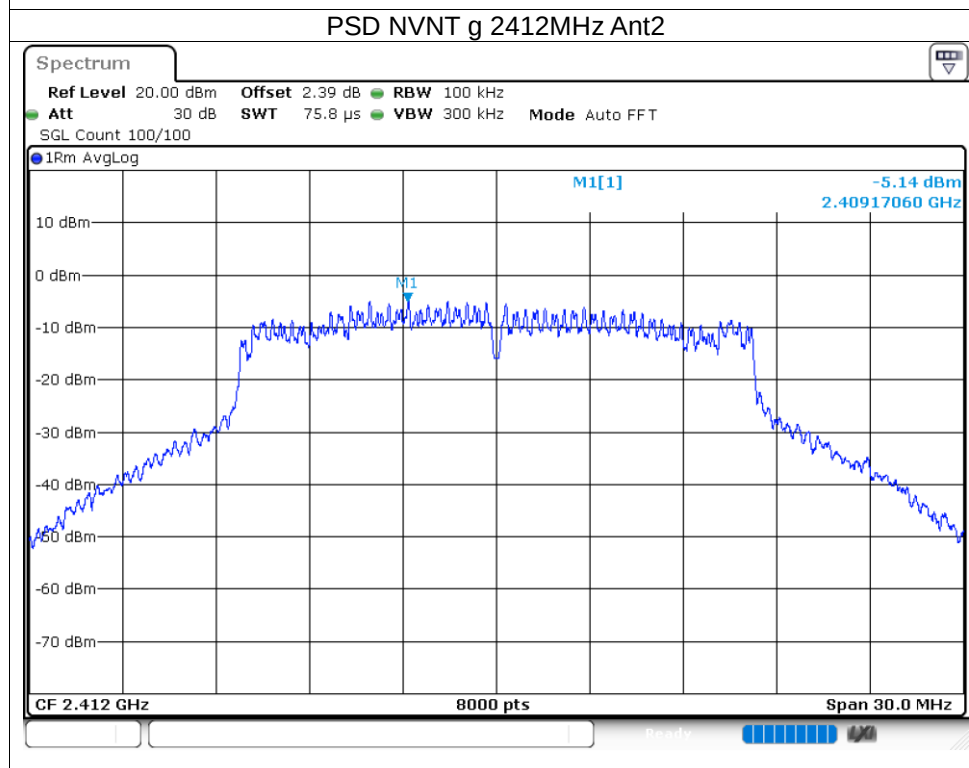
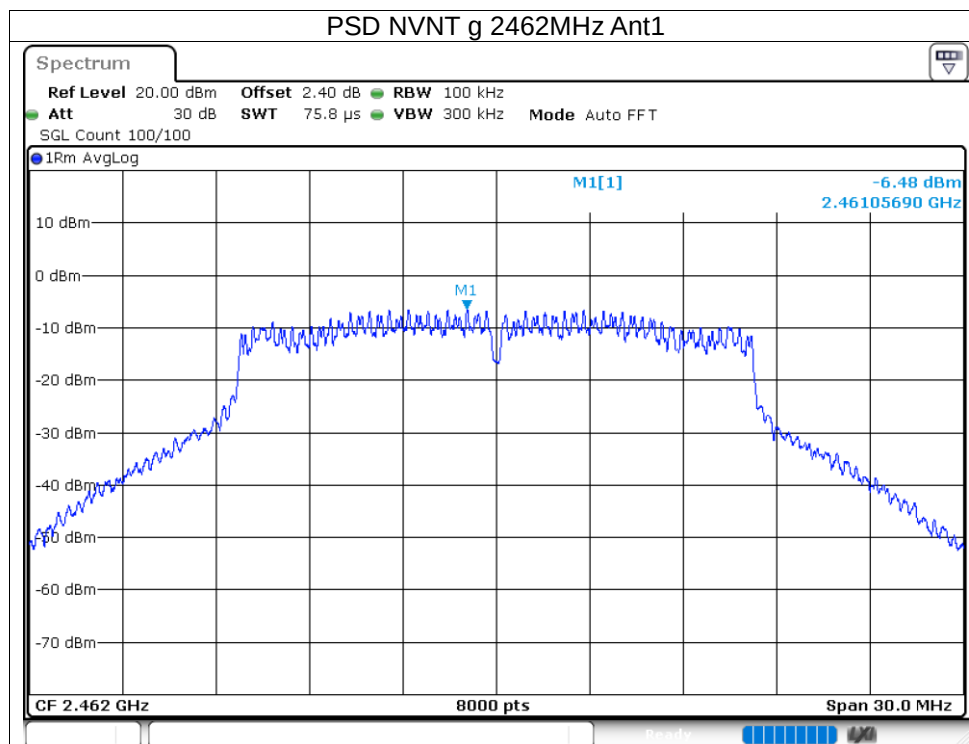


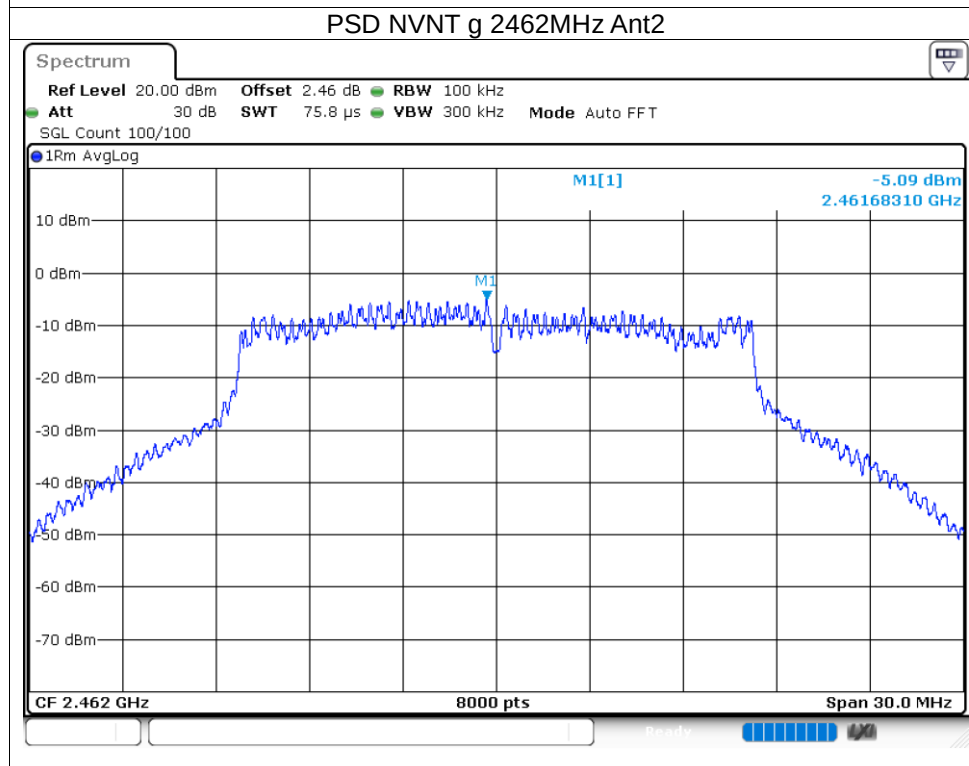
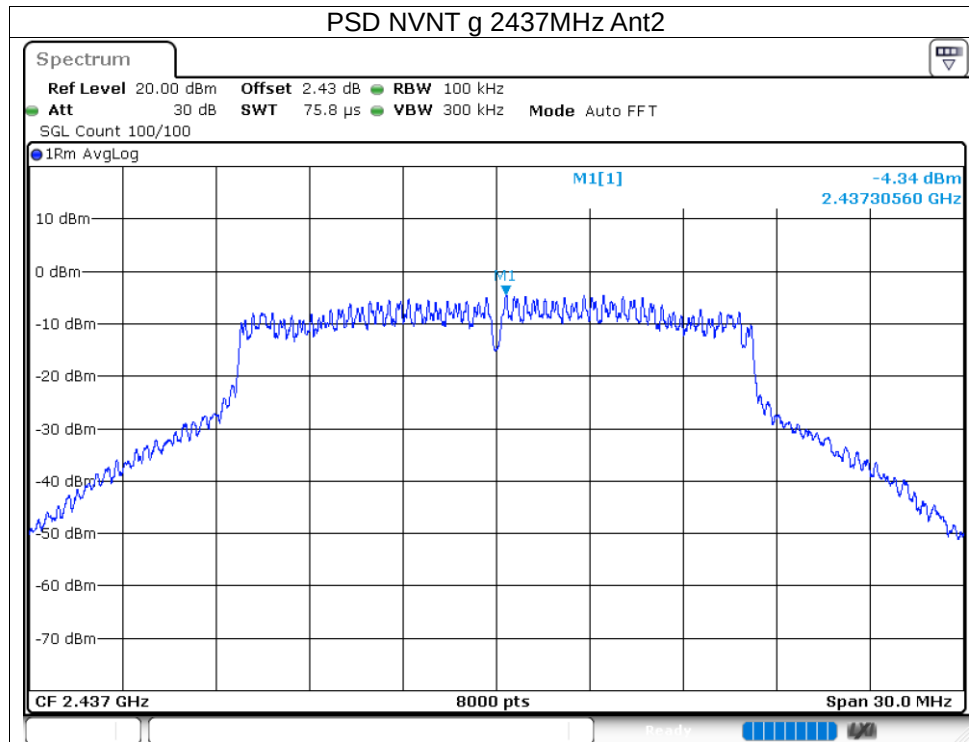
PSD NVNT b 2412MHz Ant2



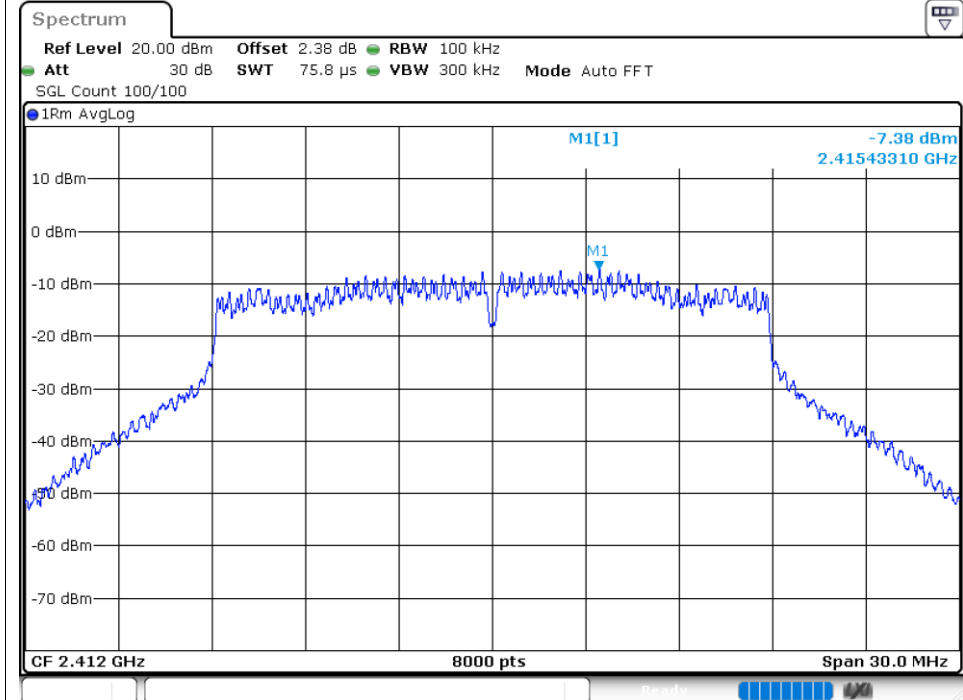




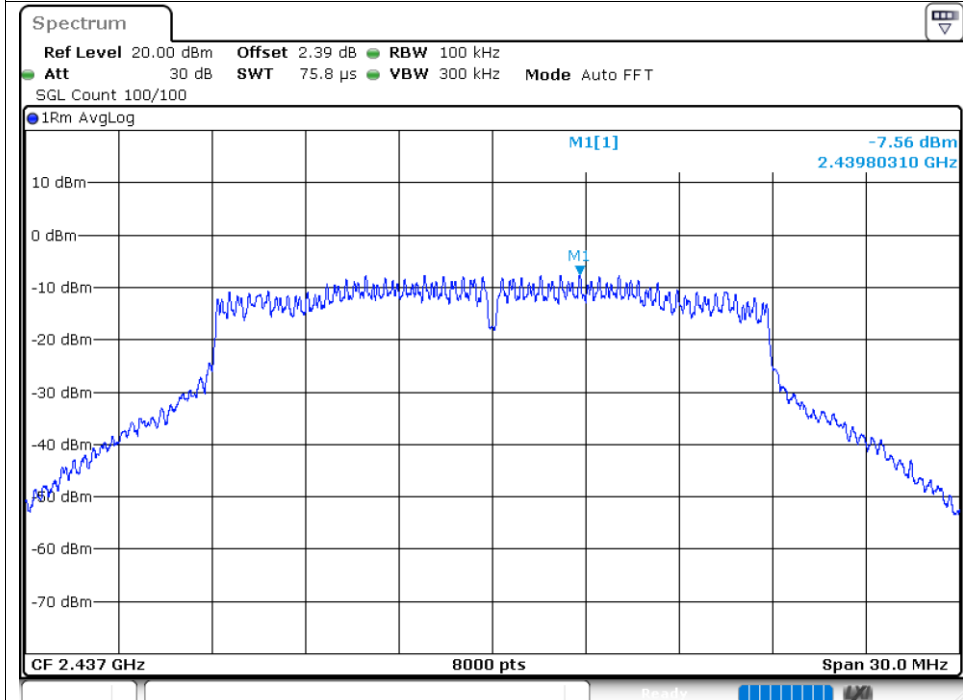




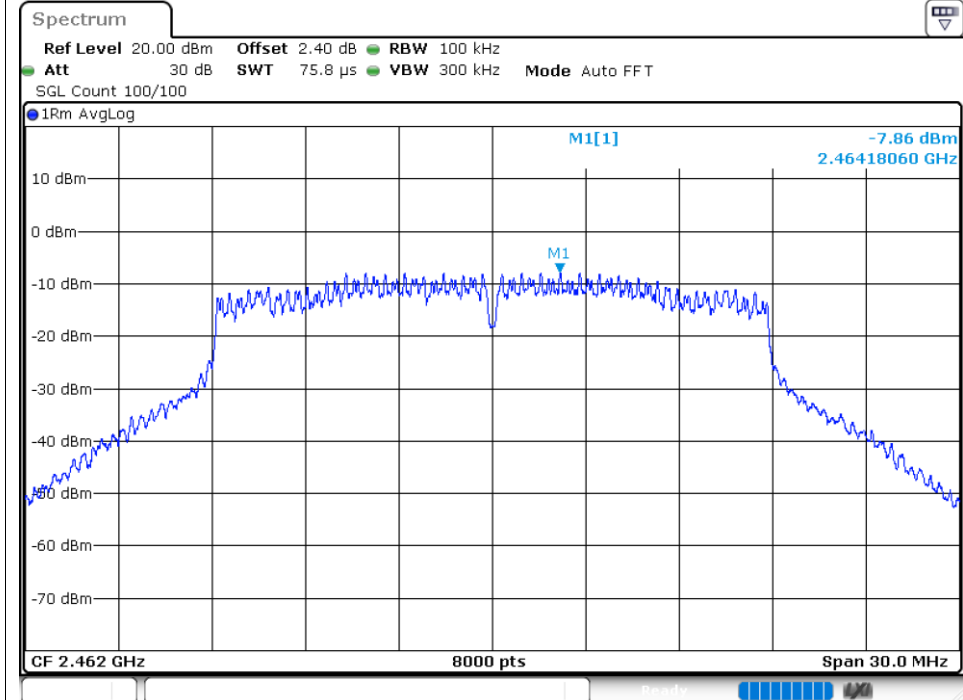
PSD NVNT n20 2412MHz Ant1



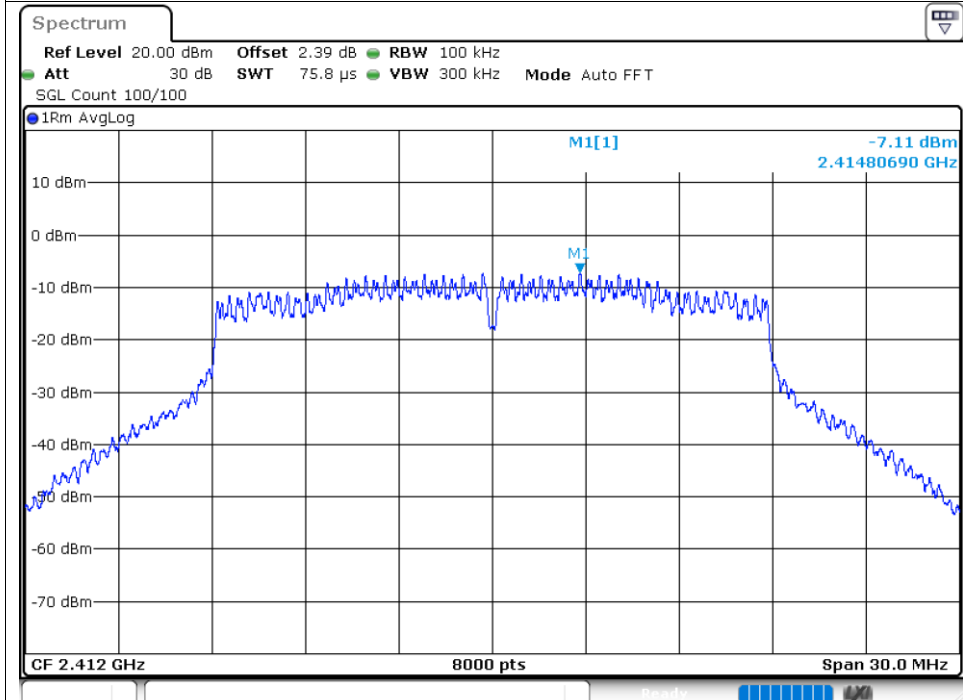
PSD NVNT n20 2437MHz Ant1



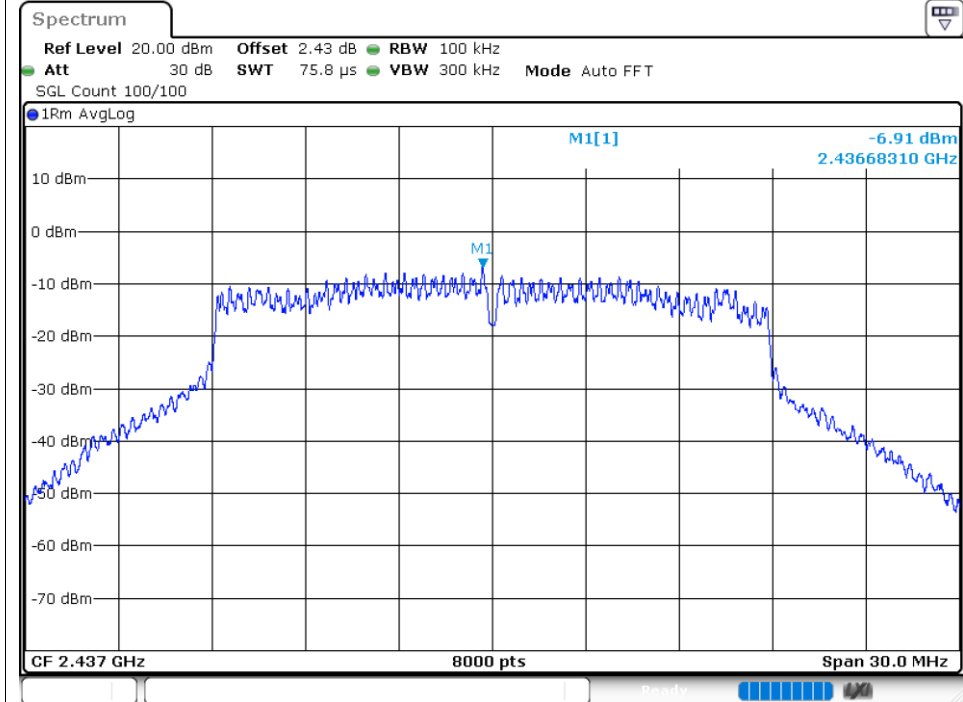
PSD NVNT n20 2462MHz Ant1



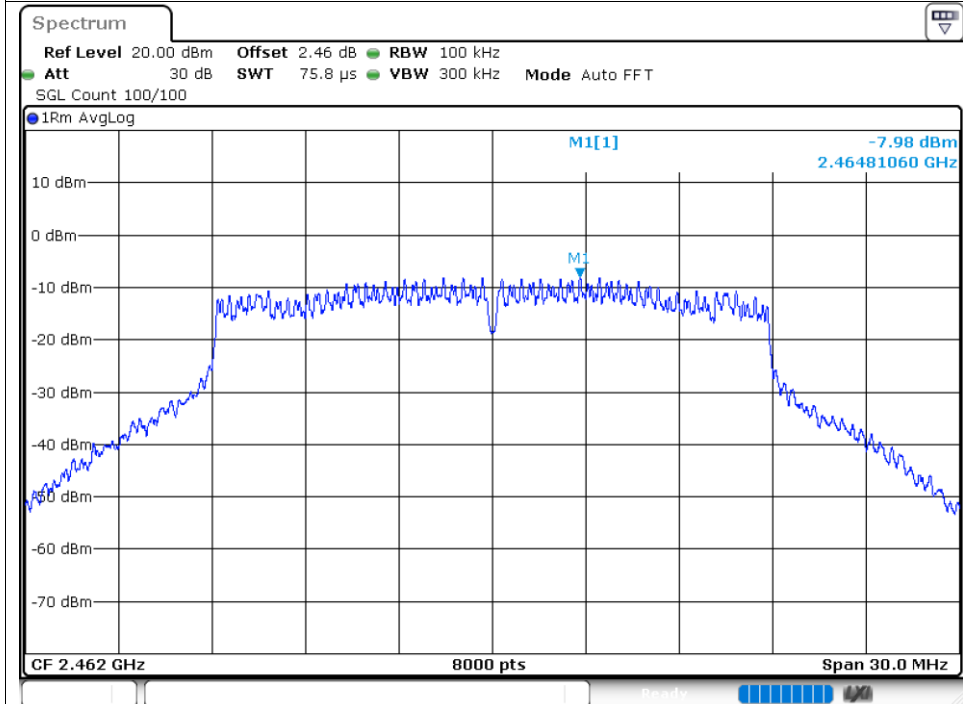
PSD NVNT n20 2412MHz Ant2



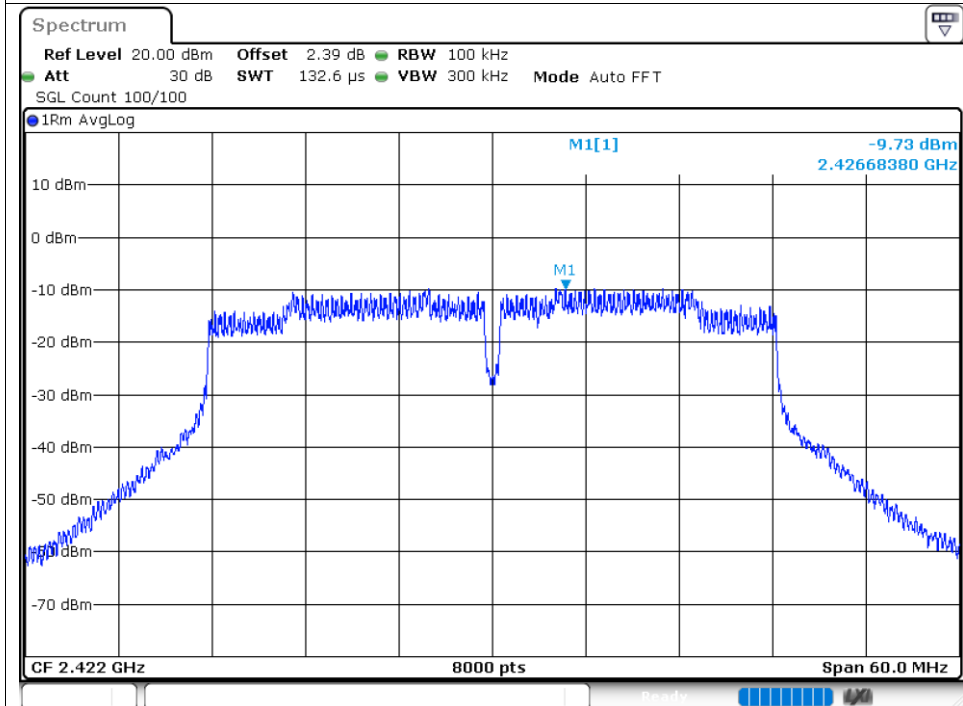
PSD NVNT n20 2437MHz Ant2



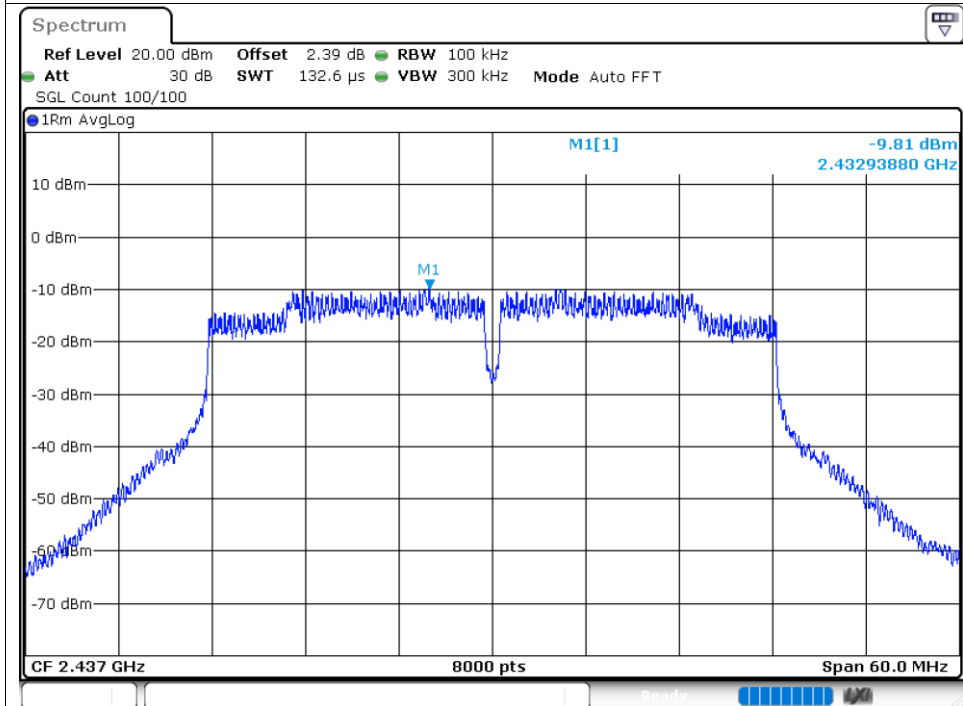
PSD NVNT n20 2462MHz Ant2



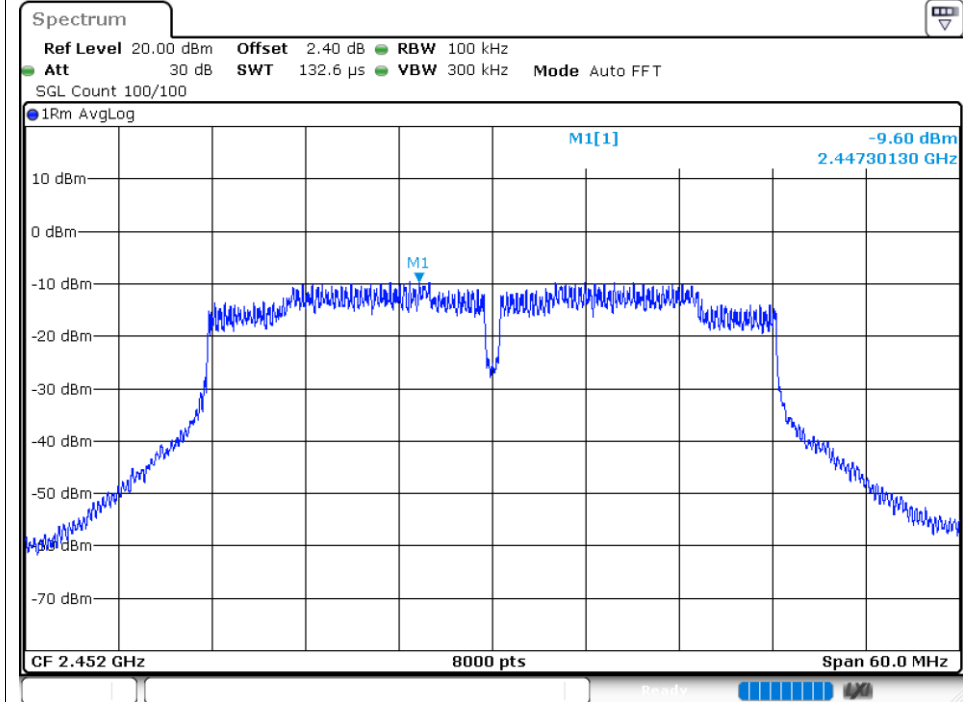
PSD NVNT n40 2422MHz Ant1



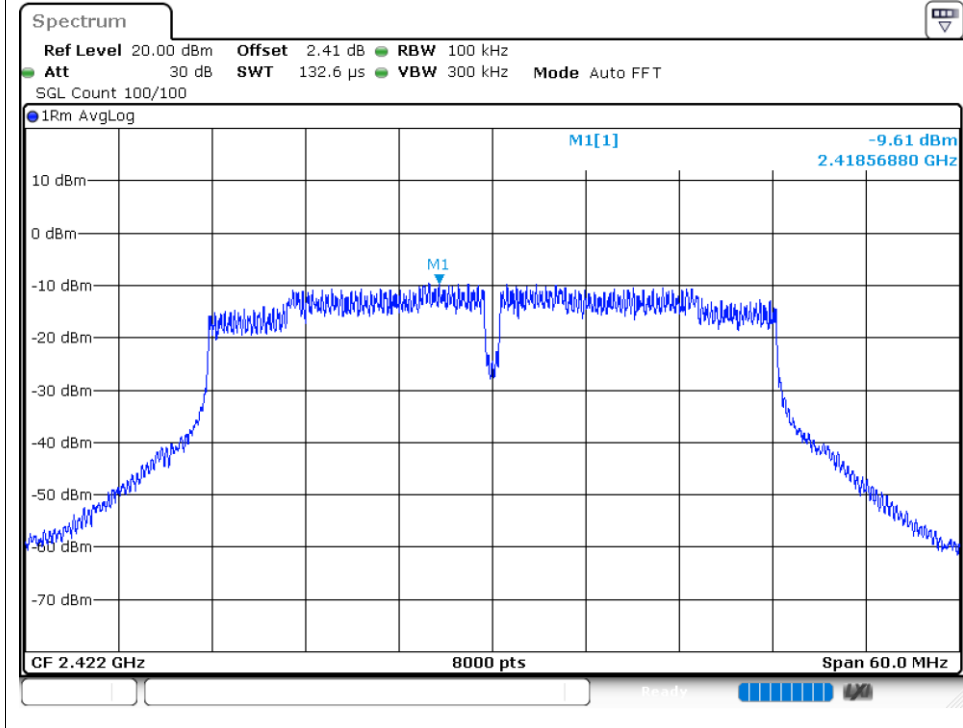
PSD NVNT n40 2437MHz Ant1



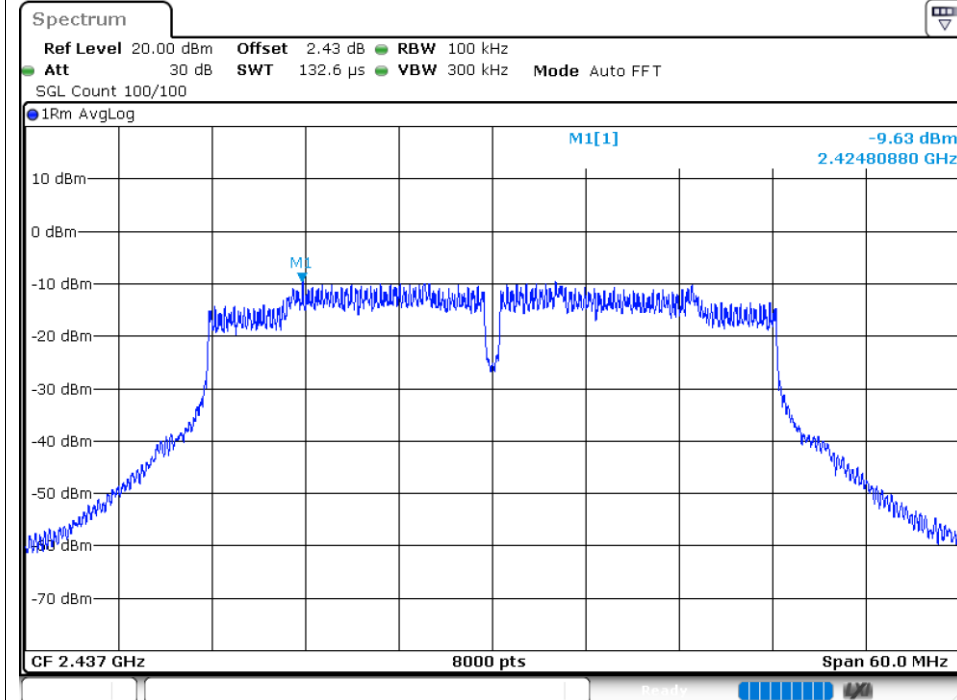
PSD NVNT n40 2452MHz Ant1



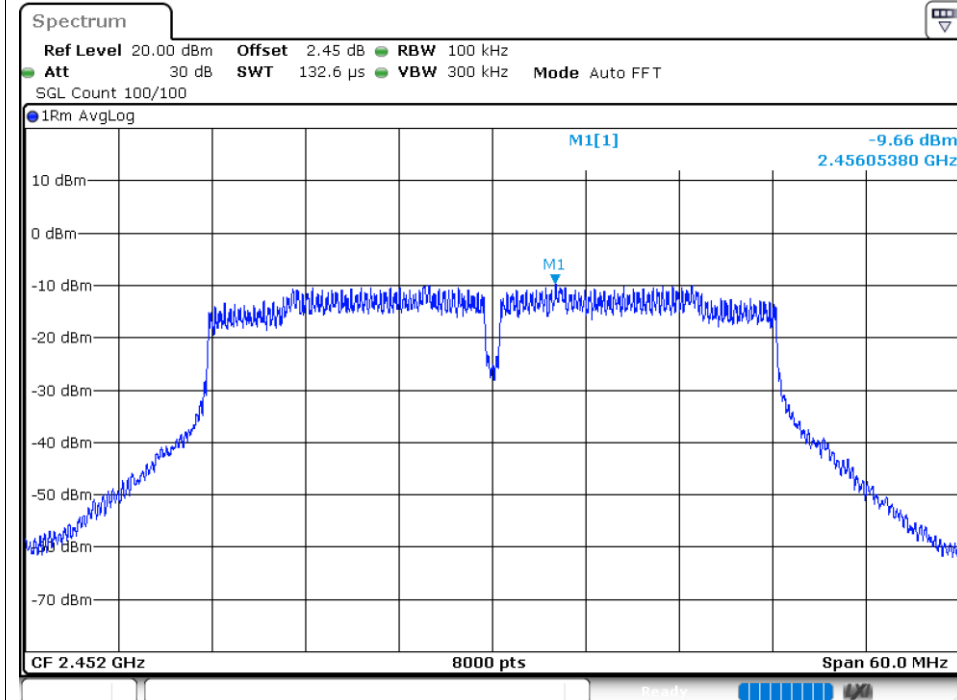
PSD NVNT n40 2422MHz Ant2



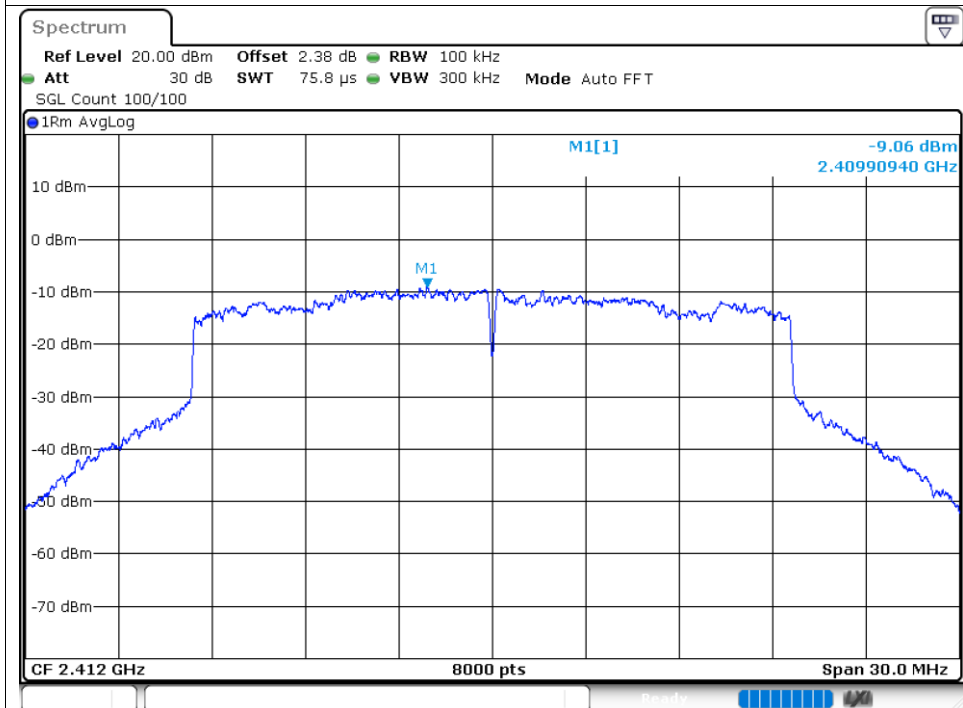
PSD NVNT n40 2437MHz Ant2



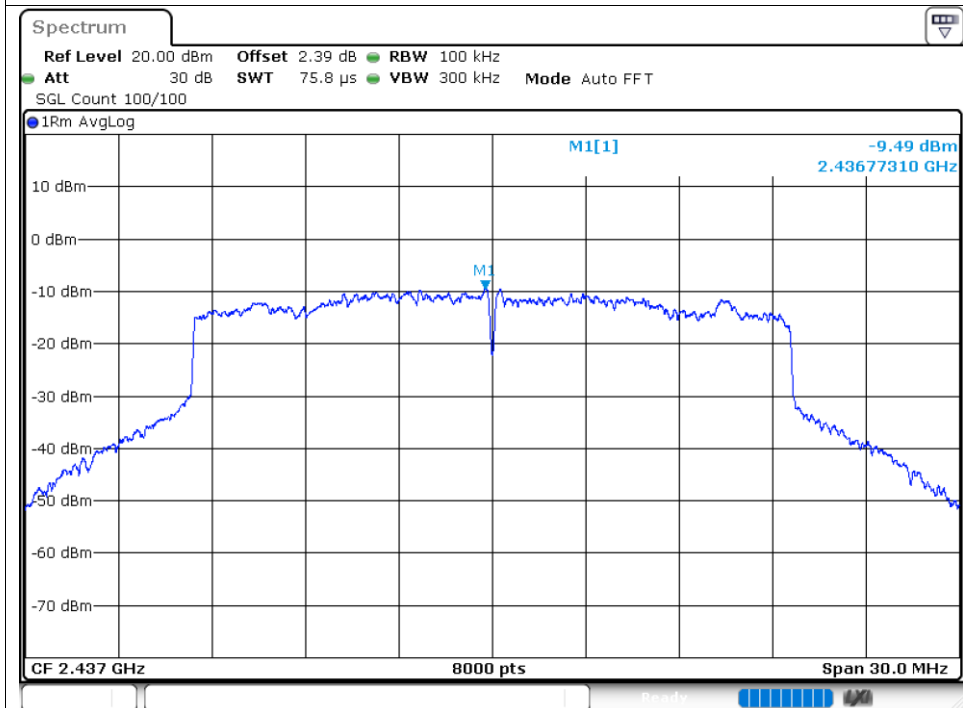
PSD NVNT n40 2452MHz Ant2



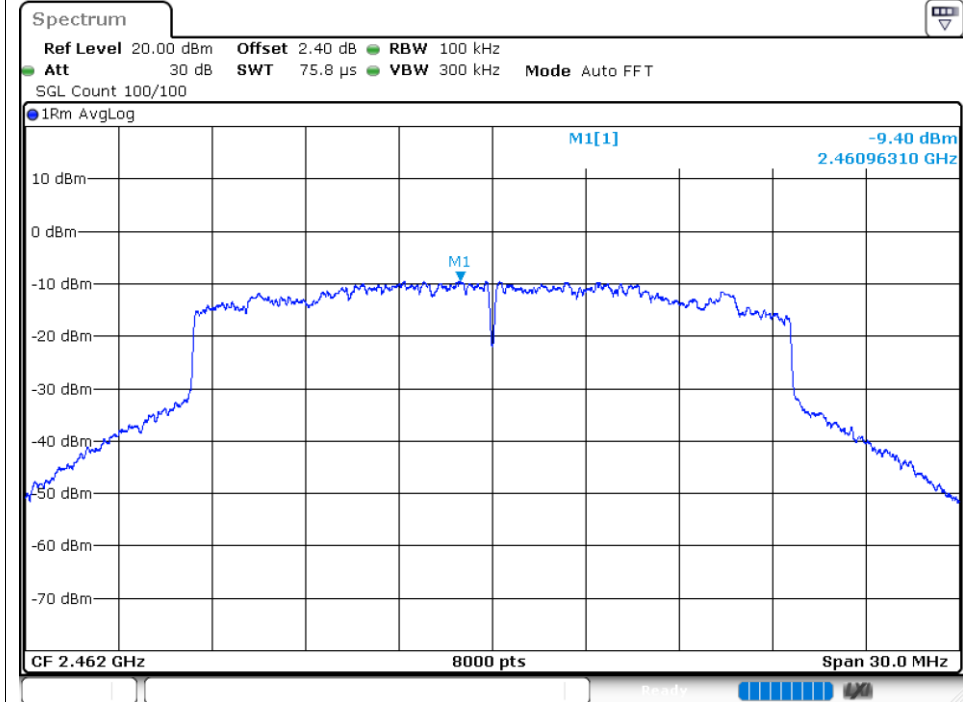
PSD NVNT ax20 2412MHz Ant1



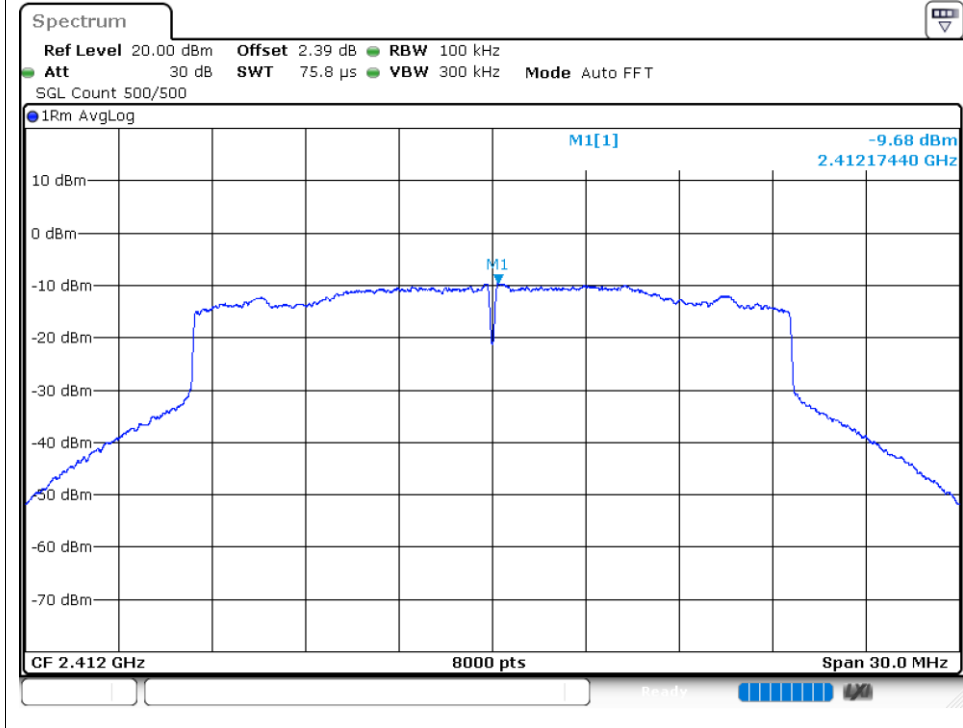
PSD NVNT ax20 2437MHz Ant1



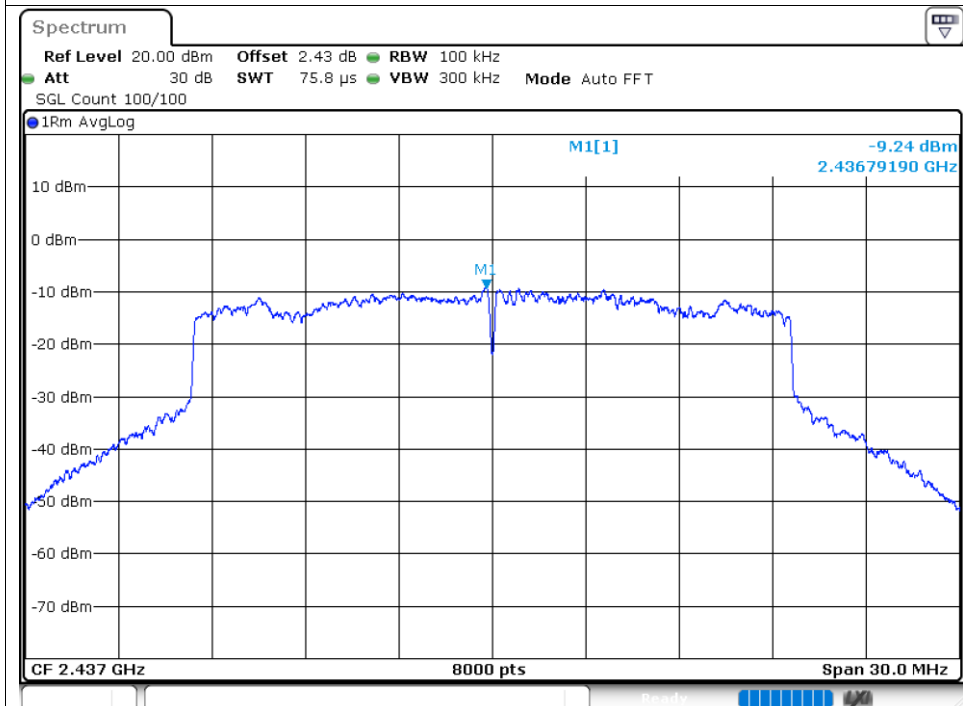
PSD NVNT ax20 2462MHz Ant1



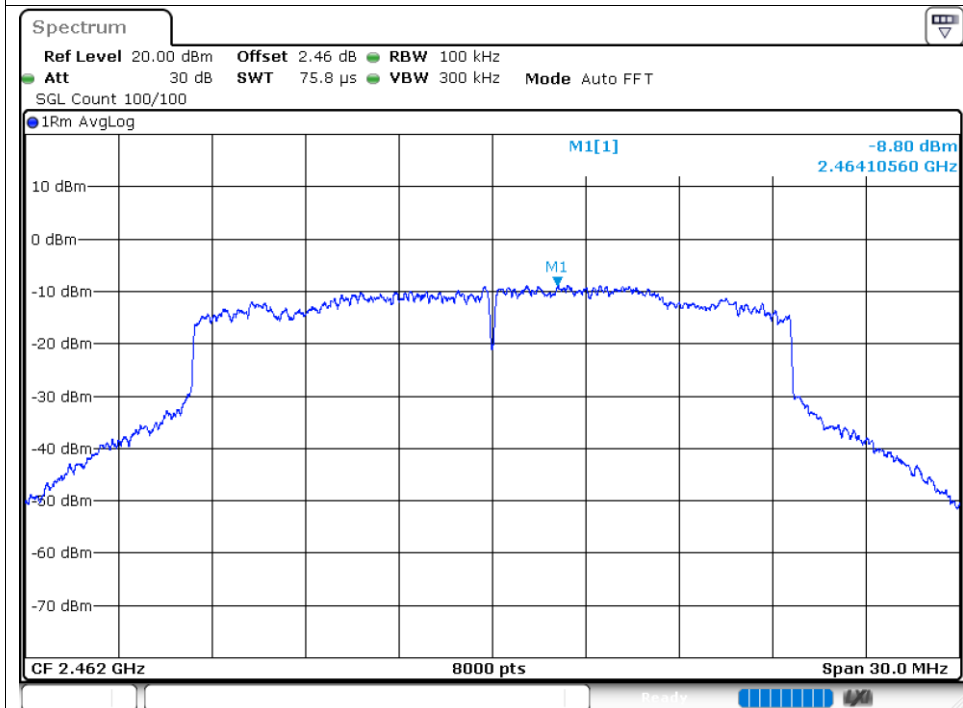
PSD NVNT ax20 2412MHz Ant2



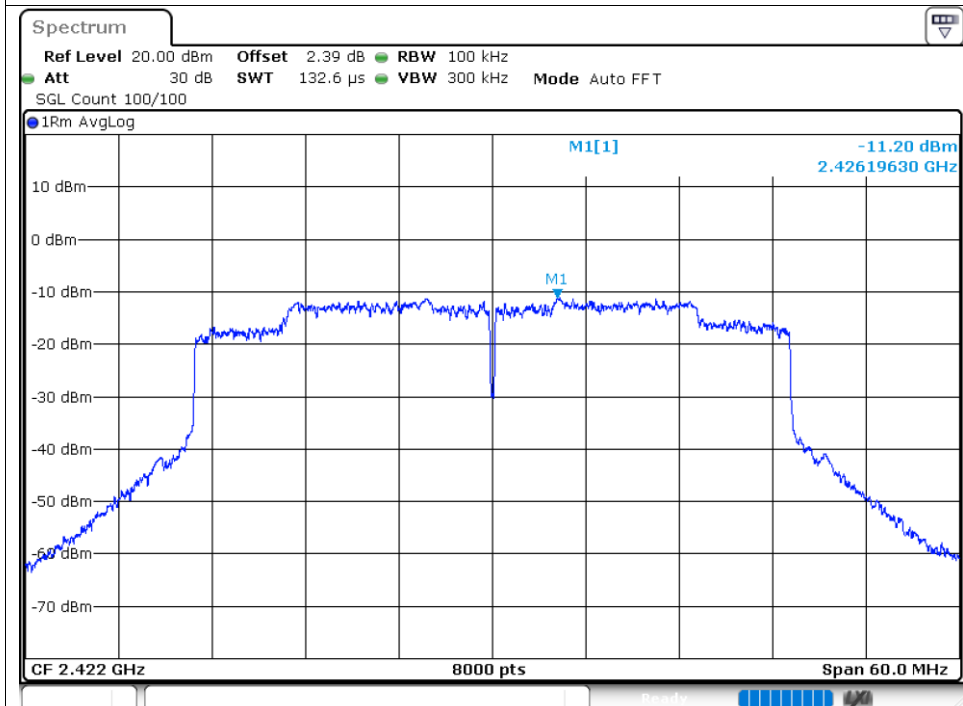
PSD NVNT ax20 2437MHz Ant2



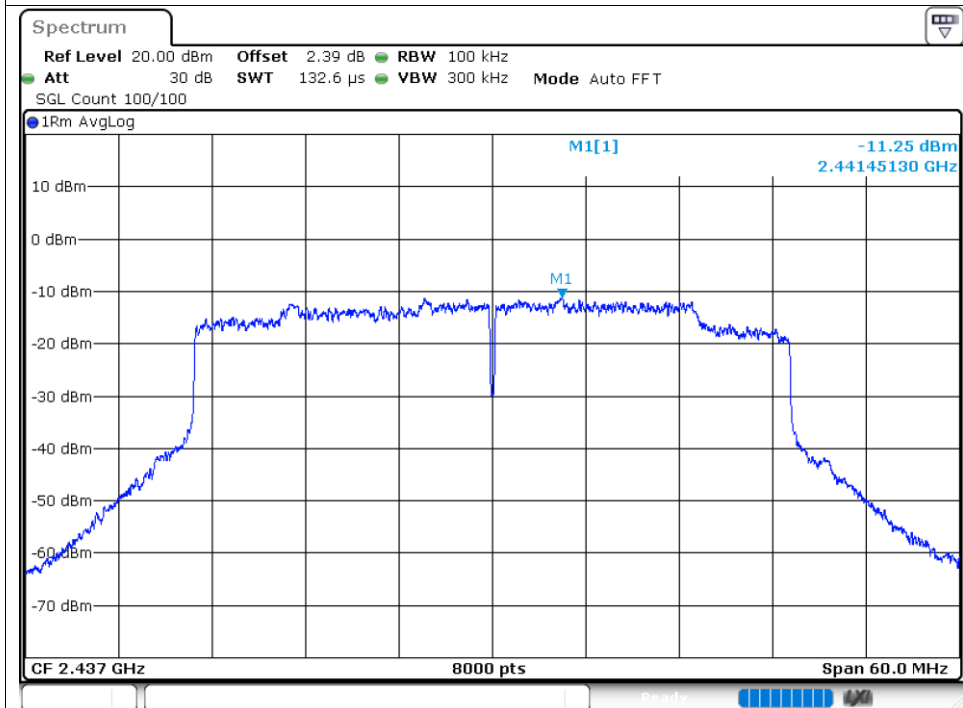
PSD NVNT ax20 2462MHz Ant2



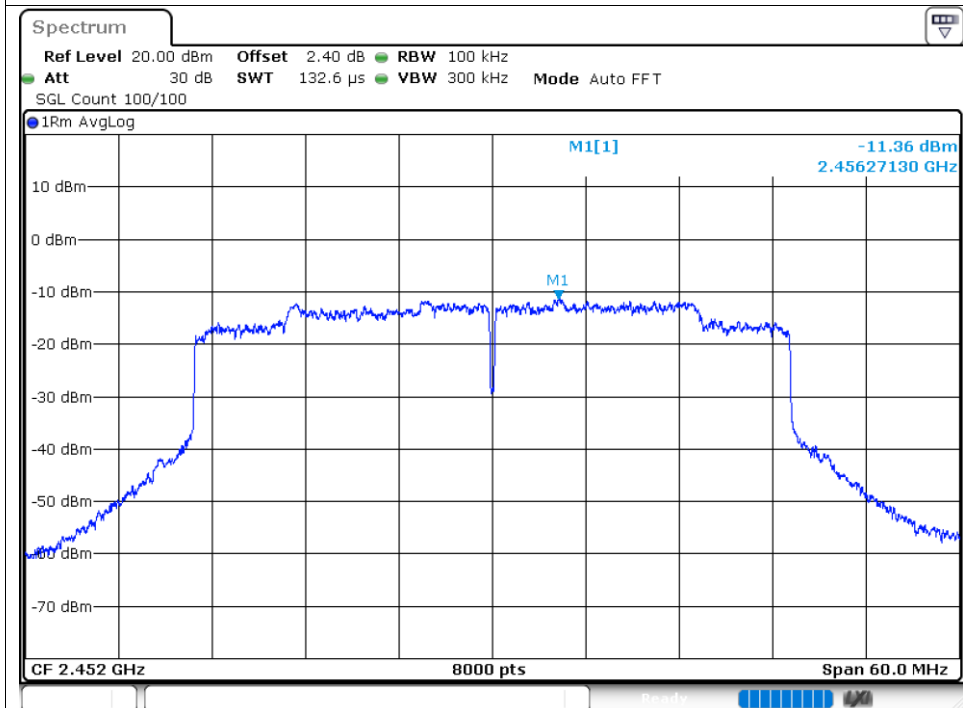
PSD NVNT ax40 2422MHz Ant1



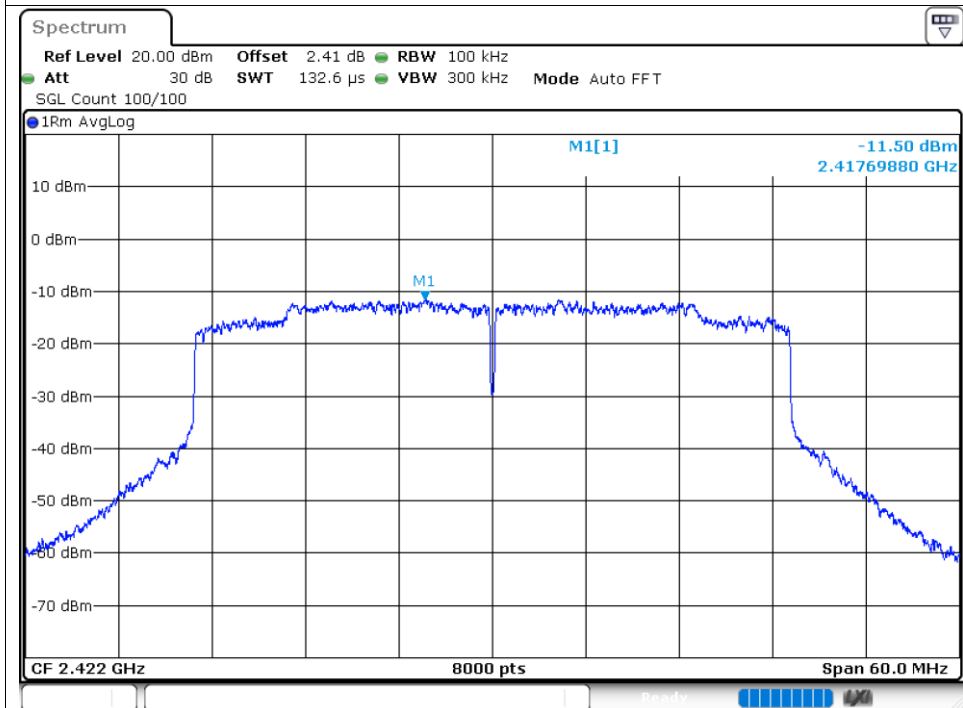
PSD NVNT ax40 2437MHz Ant1



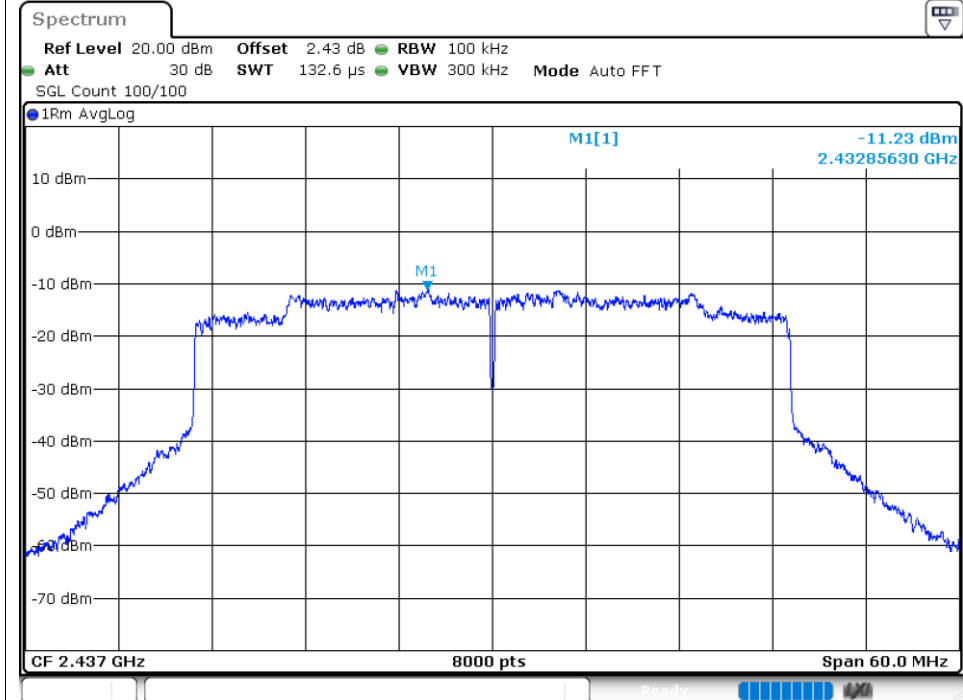
PSD NVNT ax40 2452MHz Ant1



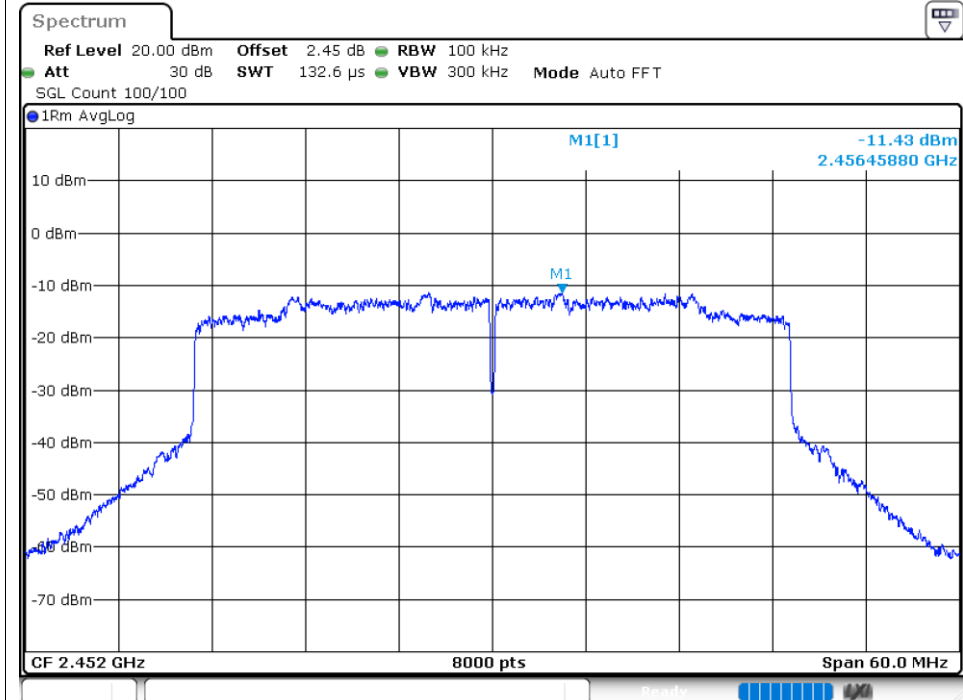
PSD NVNT ax40 2422MHz Ant2



PSD NVNT ax40 2437MHz Ant2

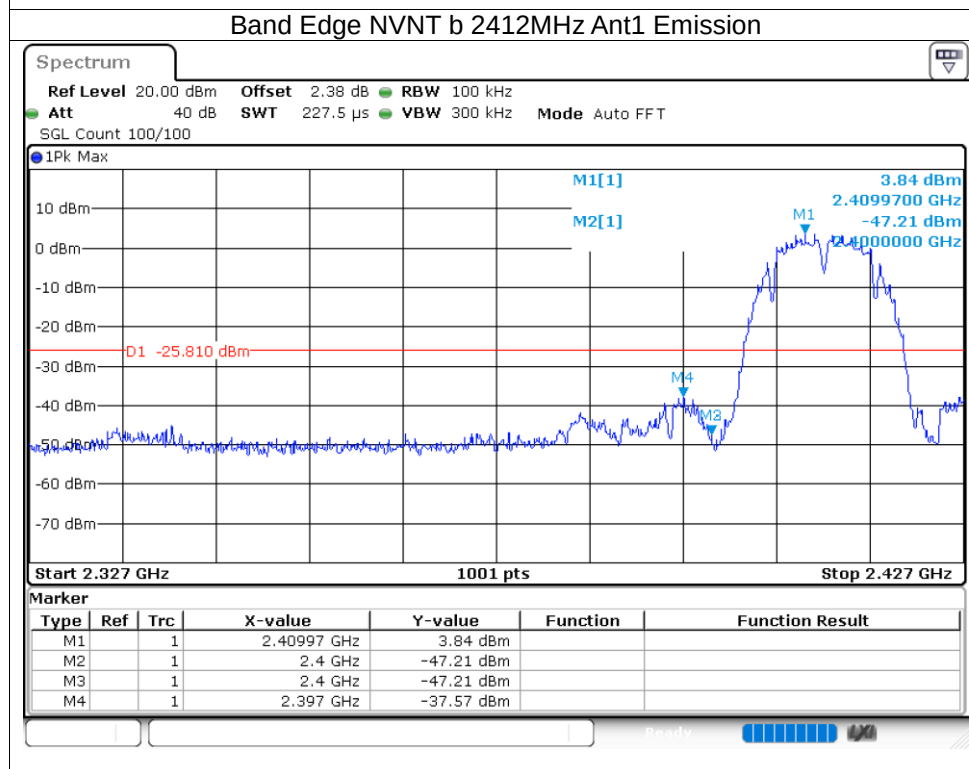
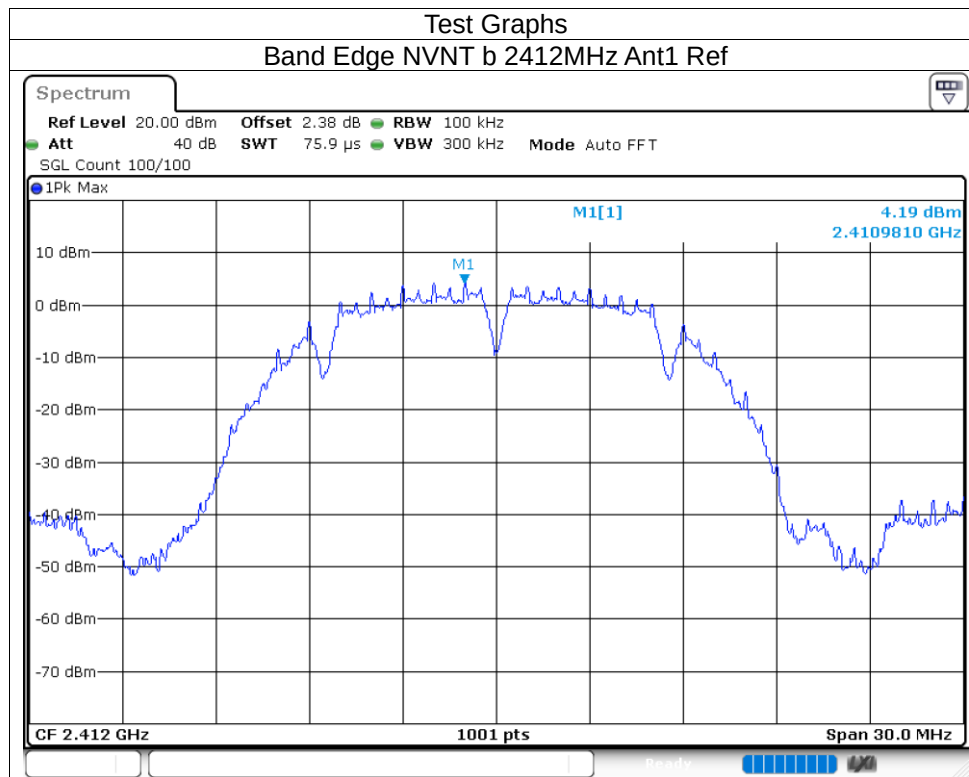


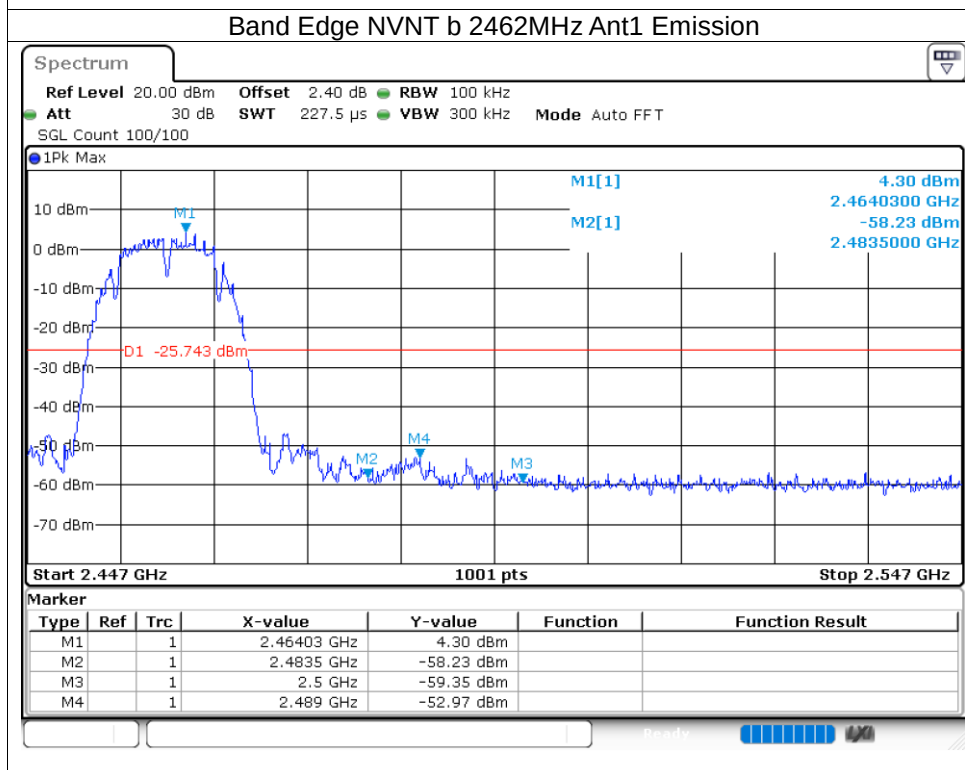
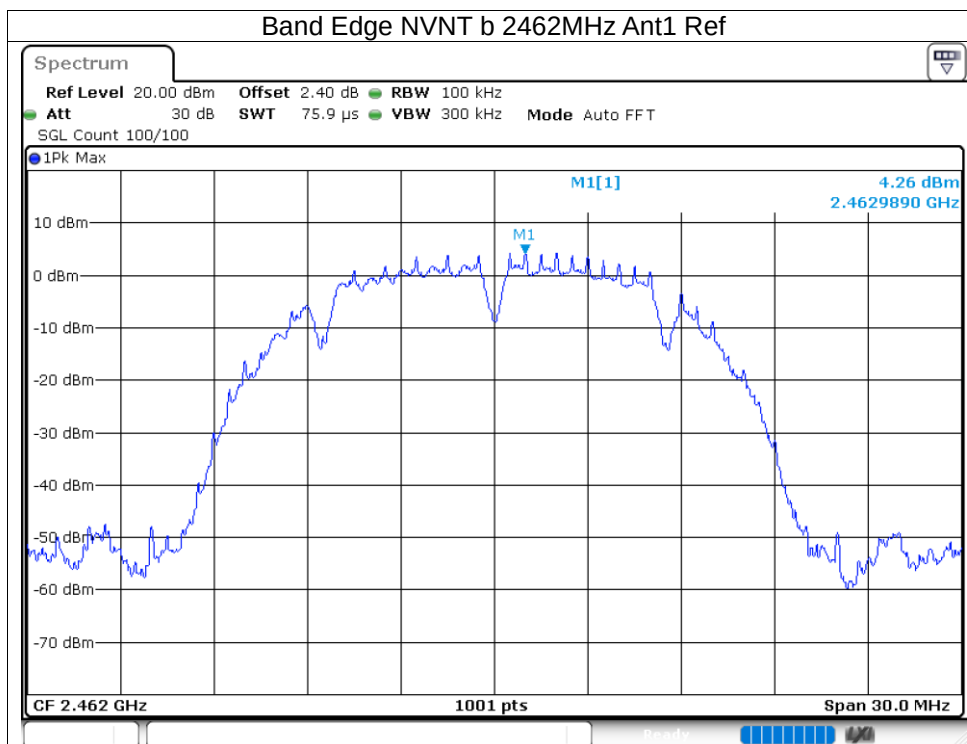
PSD NVNT ax40 2452MHz Ant2

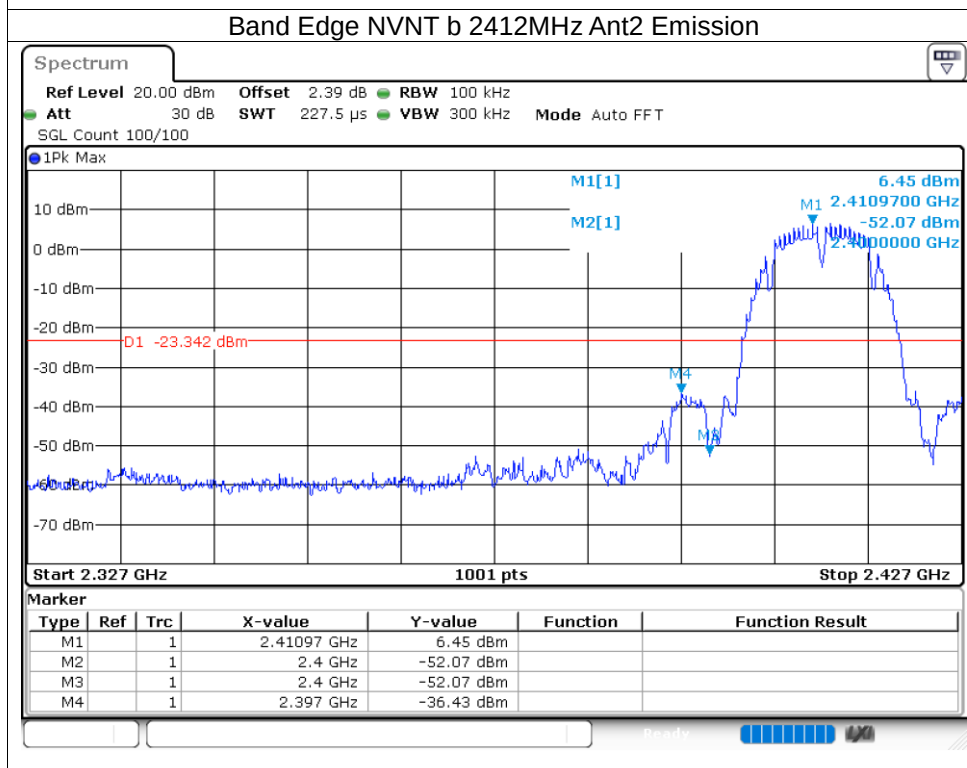
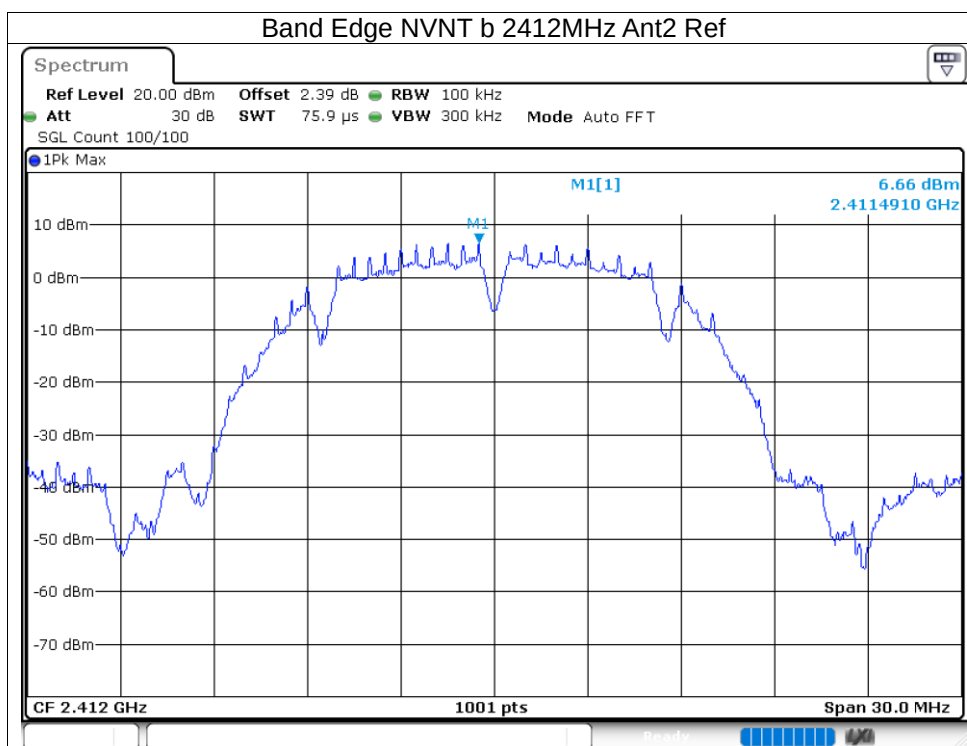


8.1.6 Band Edge

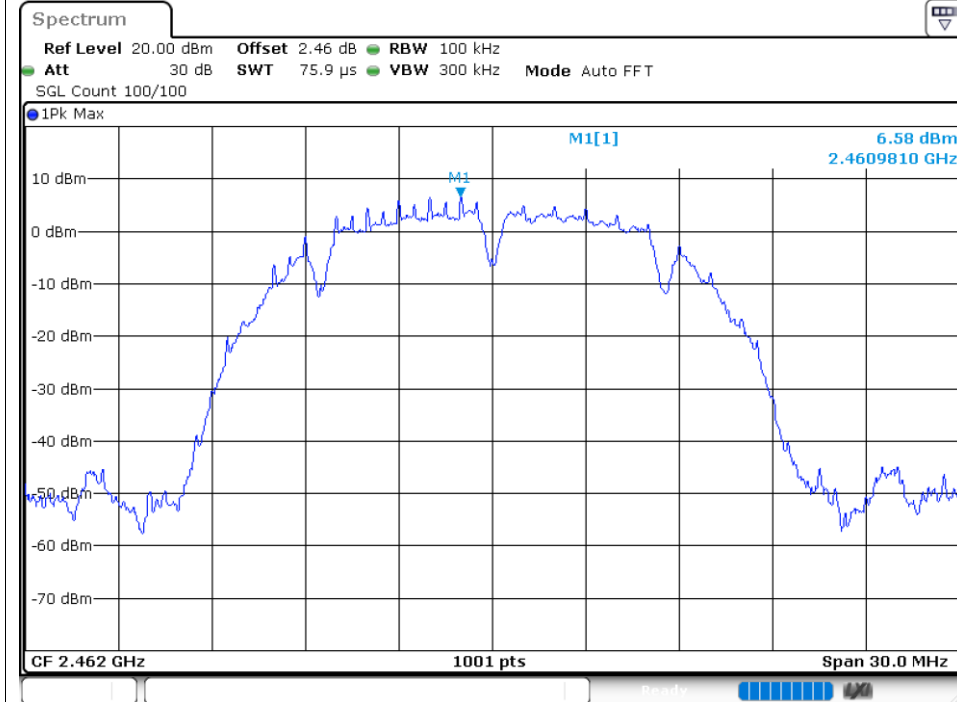
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-41.75	-30	Pass
NVNT	b	2462	Ant1	-57.22	-30	Pass
NVNT	b	2412	Ant2	-43.08	-30	Pass
NVNT	b	2462	Ant2	-60.52	-30	Pass
NVNT	g	2412	Ant1	-30.57	-30	Pass
NVNT	g	2462	Ant1	-56.41	-30	Pass
NVNT	g	2412	Ant2	-30.34	-30	Pass
NVNT	g	2462	Ant2	-54.28	-30	Pass
NVNT	n20	2412	Ant1	-30.28	-30	Pass
NVNT	n20	2462	Ant1	-57.65	-30	Pass
NVNT	n20	2412	Ant2	-30.48	-30	Pass
NVNT	n20	2462	Ant2	-53.71	-30	Pass
NVNT	n40	2422	Ant1	-32.19	-30	Pass
NVNT	n40	2452	Ant1	-40.18	-30	Pass
NVNT	n40	2422	Ant2	-33.58	-30	Pass
NVNT	n40	2452	Ant2	-48.28	-30	Pass
NVNT	ax20	2412	Ant1	-30.69	-30	Pass
NVNT	ax20	2462	Ant1	-55.17	-30	Pass
NVNT	ax20	2412	Ant2	-30.08	-30	Pass
NVNT	ax20	2462	Ant2	-53.77	-30	Pass
NVNT	ax40	2422	Ant1	-31.42	-30	Pass
NVNT	ax40	2452	Ant1	-39.11	-30	Pass
NVNT	ax40	2422	Ant2	-32.38	-30	Pass
NVNT	ax40	2452	Ant2	-48.48	-30	Pass



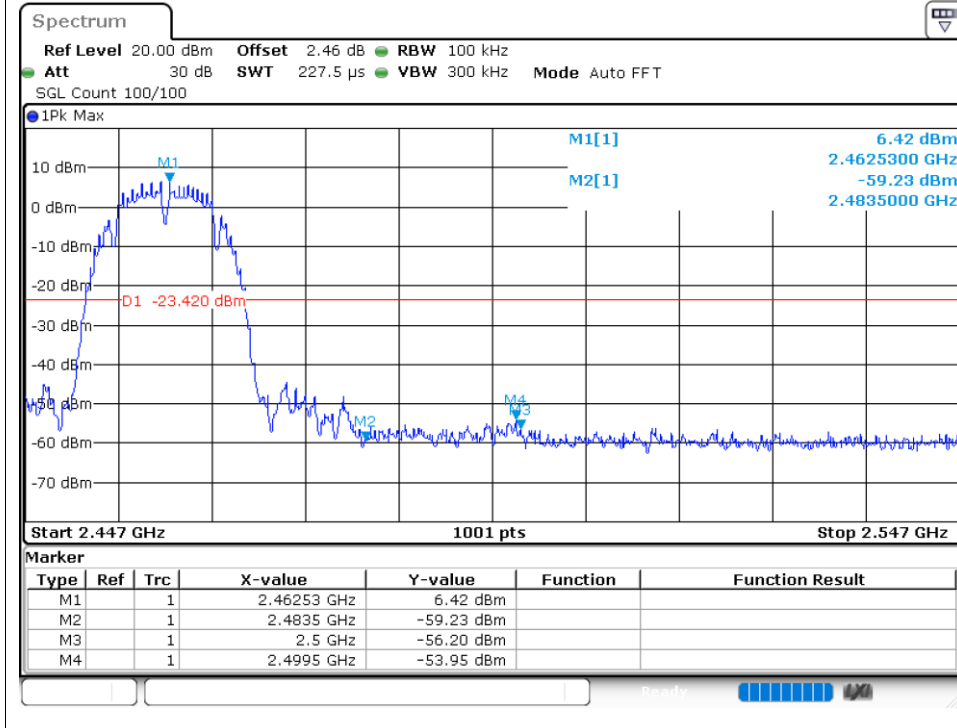




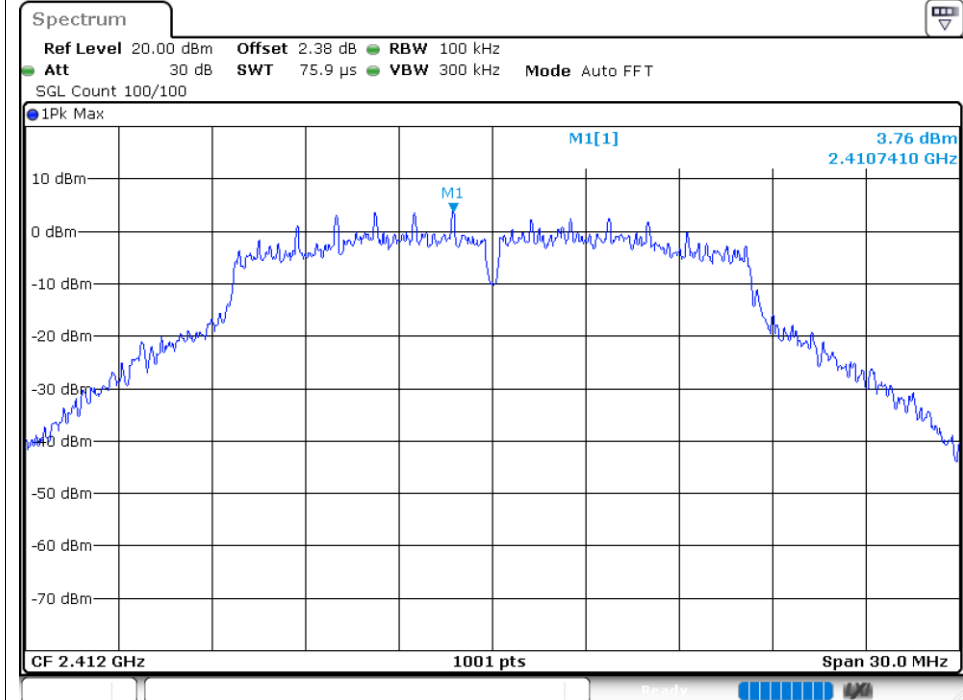
Band Edge NVNT b 2462MHz Ant2 Ref



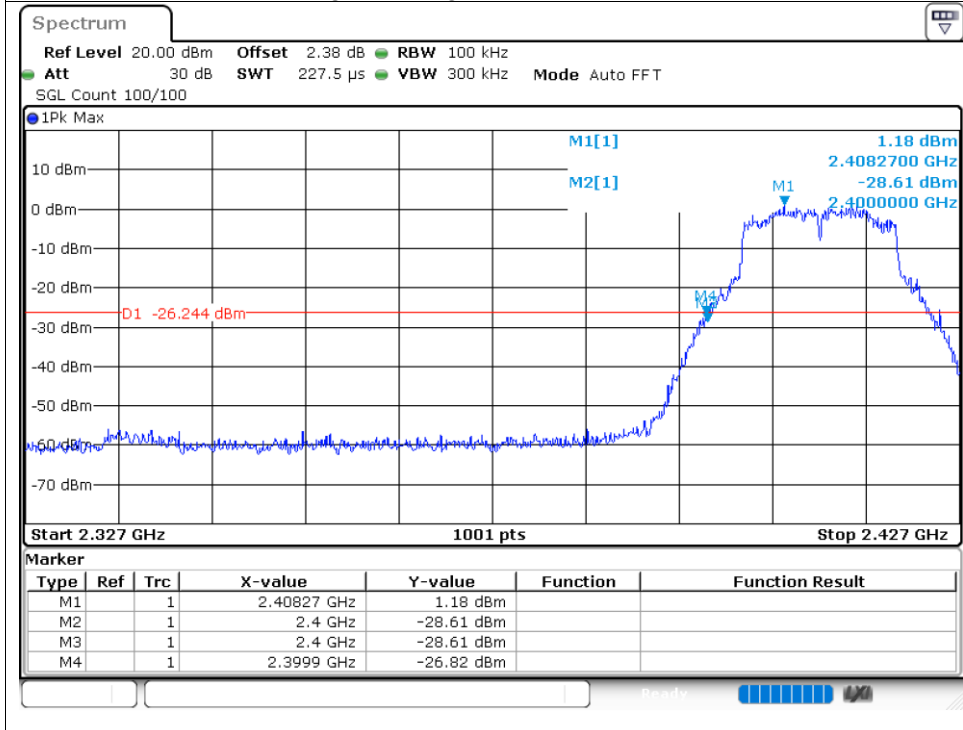
Band Edge NVNT b 2462MHz Ant2 Emission

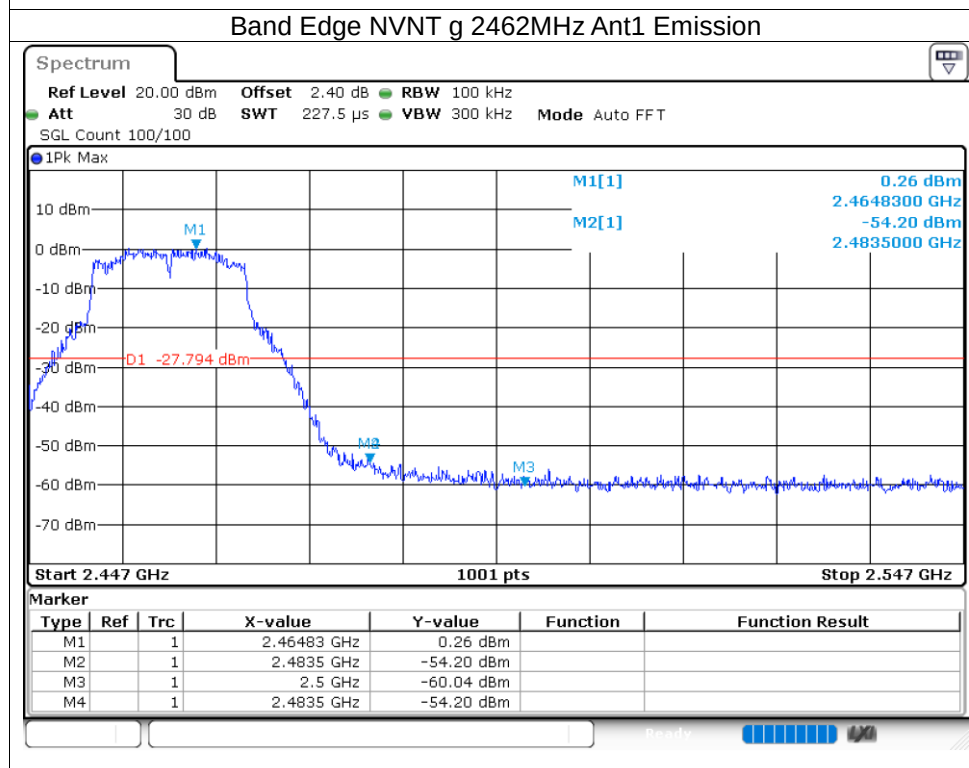
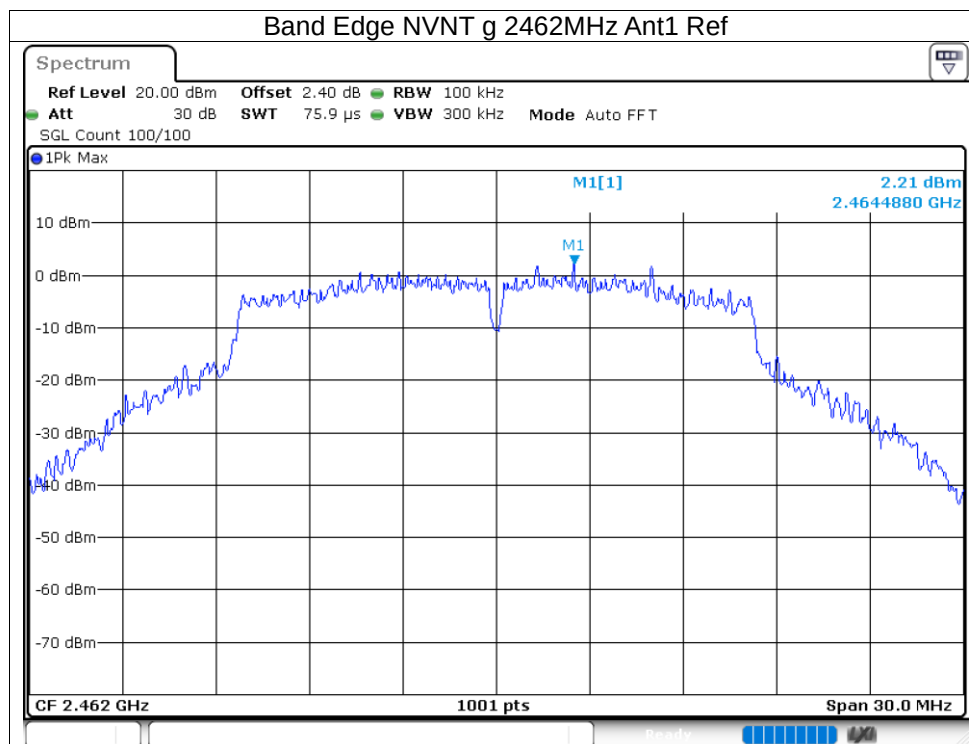


Band Edge NVNT g 2412MHz Ant1 Ref

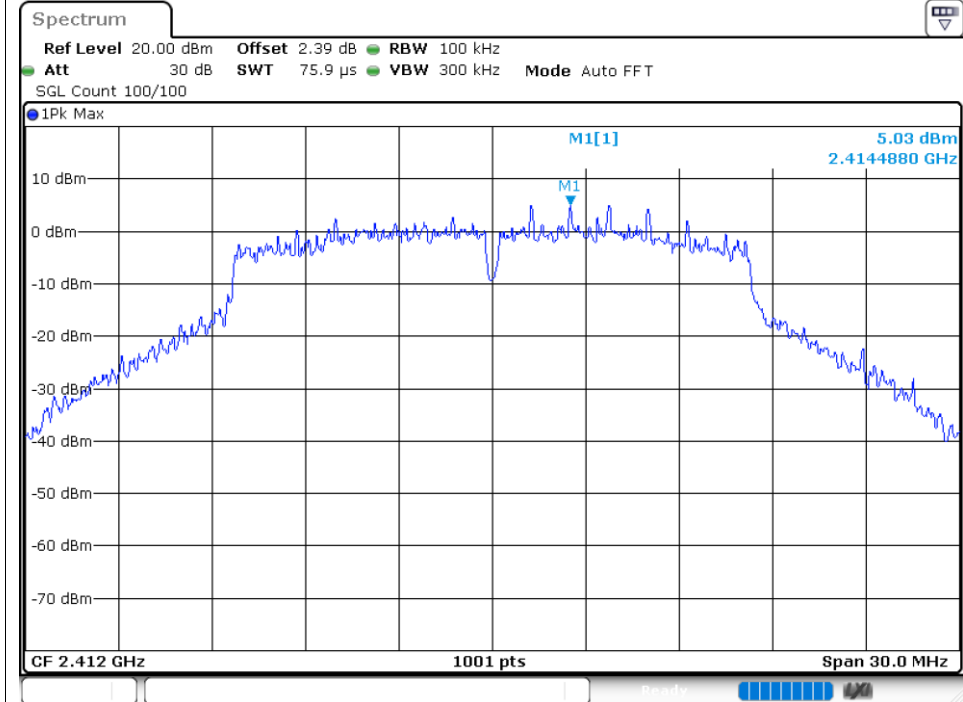


Band Edge NVNT g 2412MHz Ant1 Emission

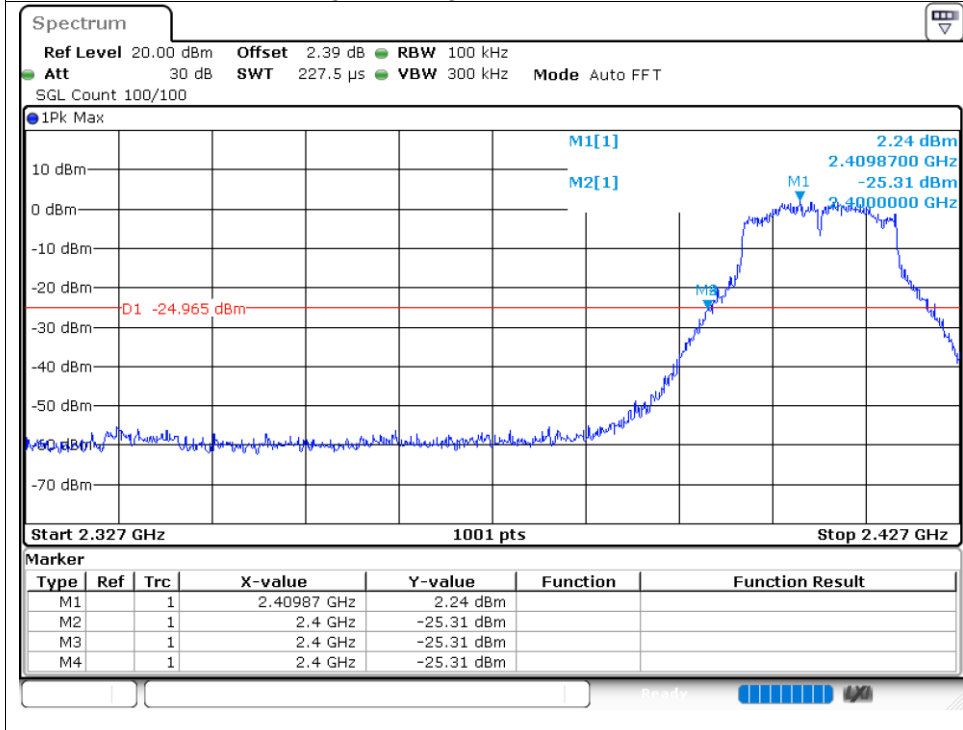




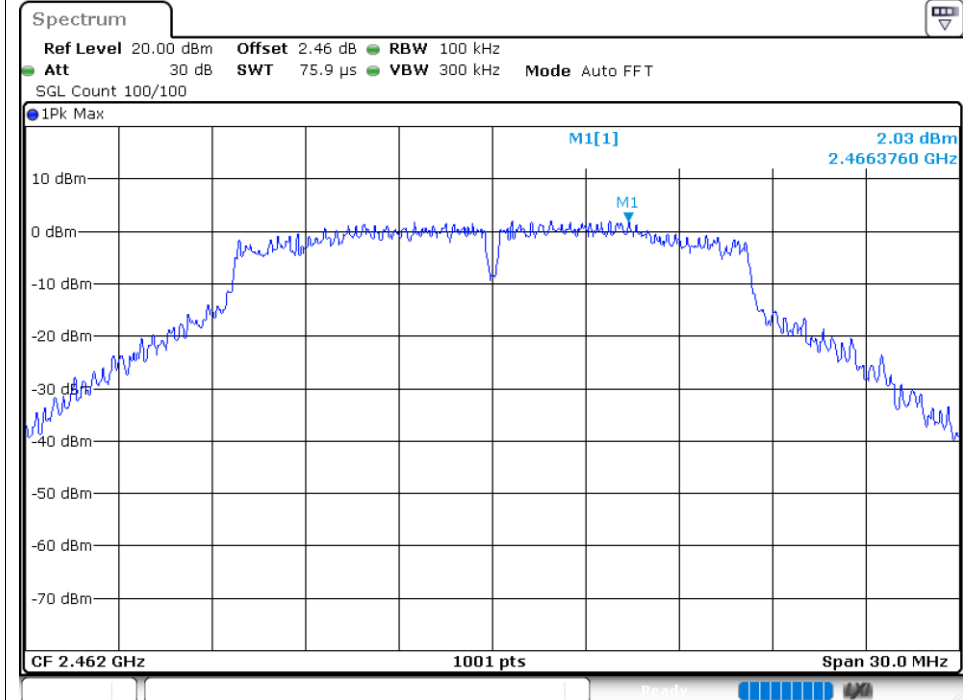
Band Edge NVNT g 2412MHz Ant2 Ref



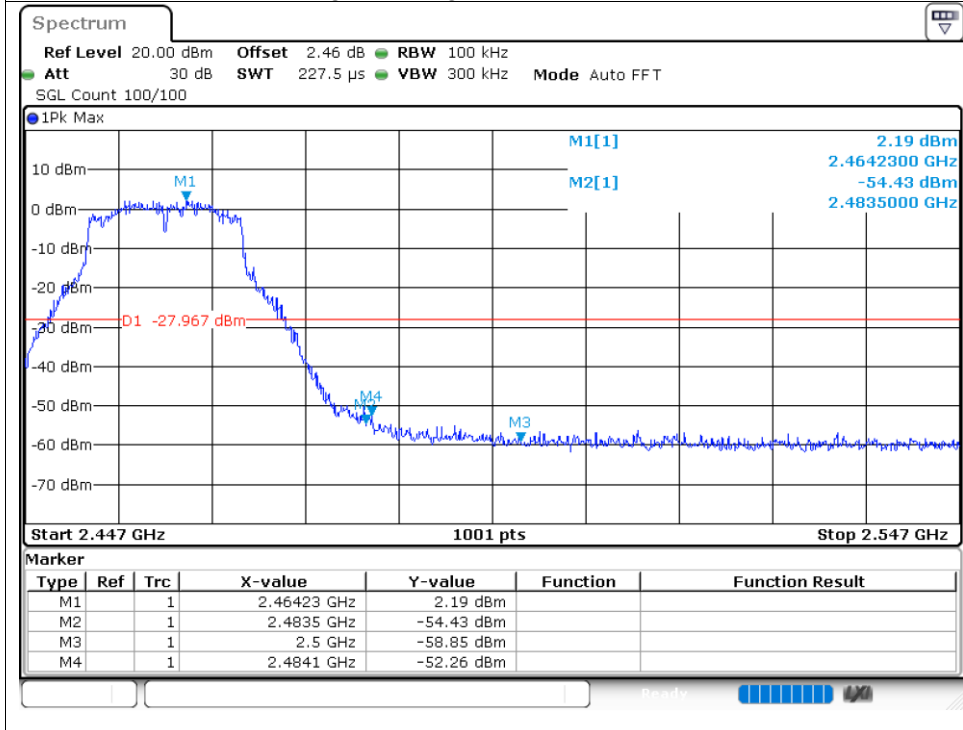
Band Edge NVNT g 2412MHz Ant2 Emission



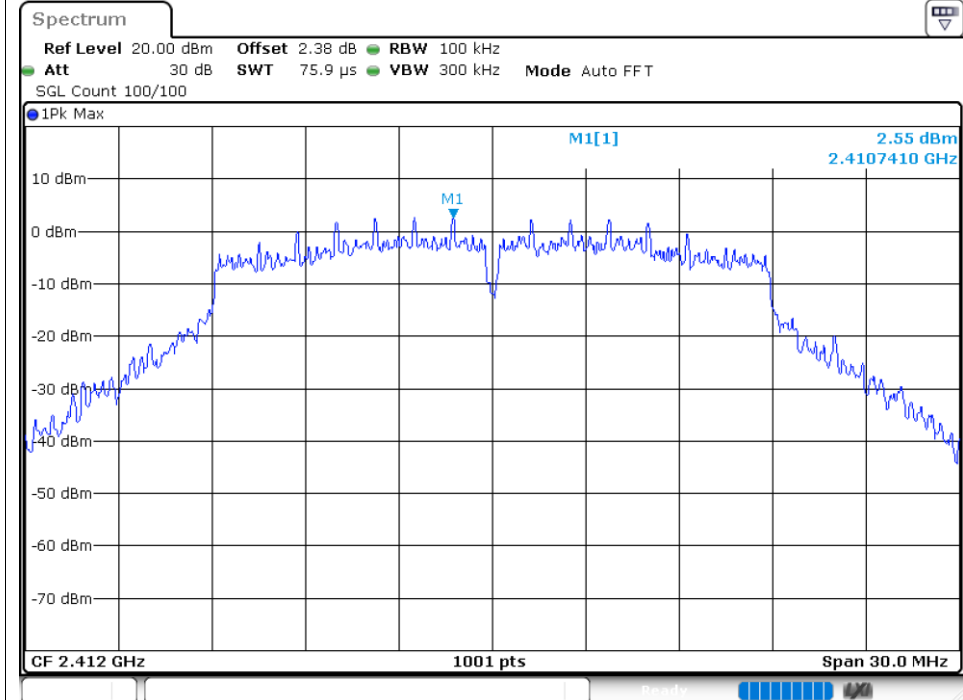
Band Edge NVNT g 2462MHz Ant2 Ref



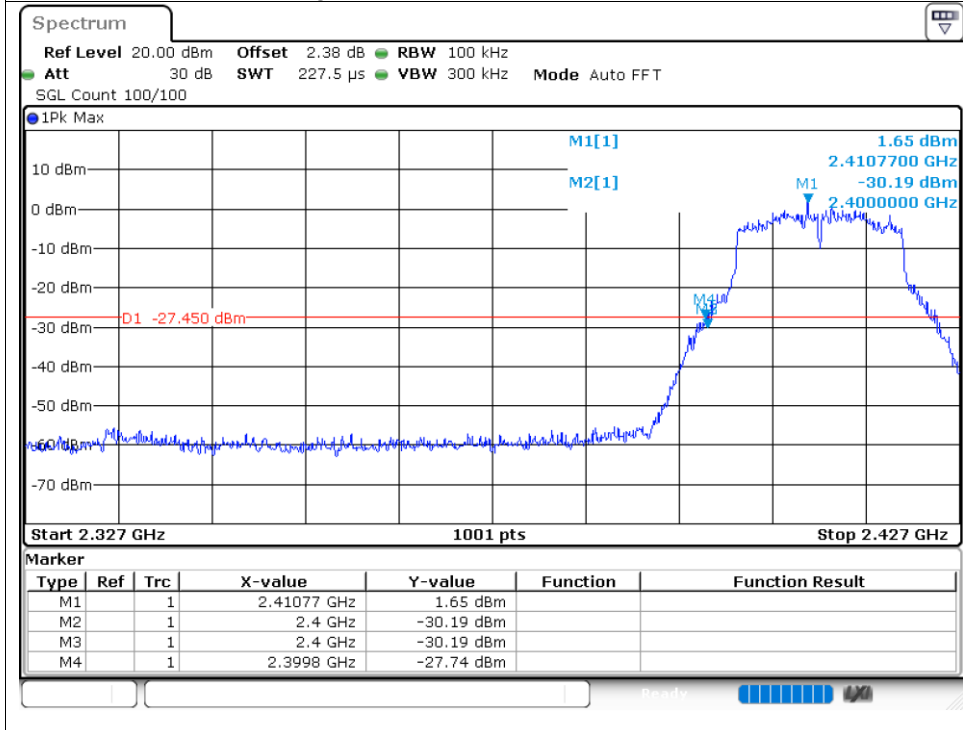
Band Edge NVNT g 2462MHz Ant2 Emission

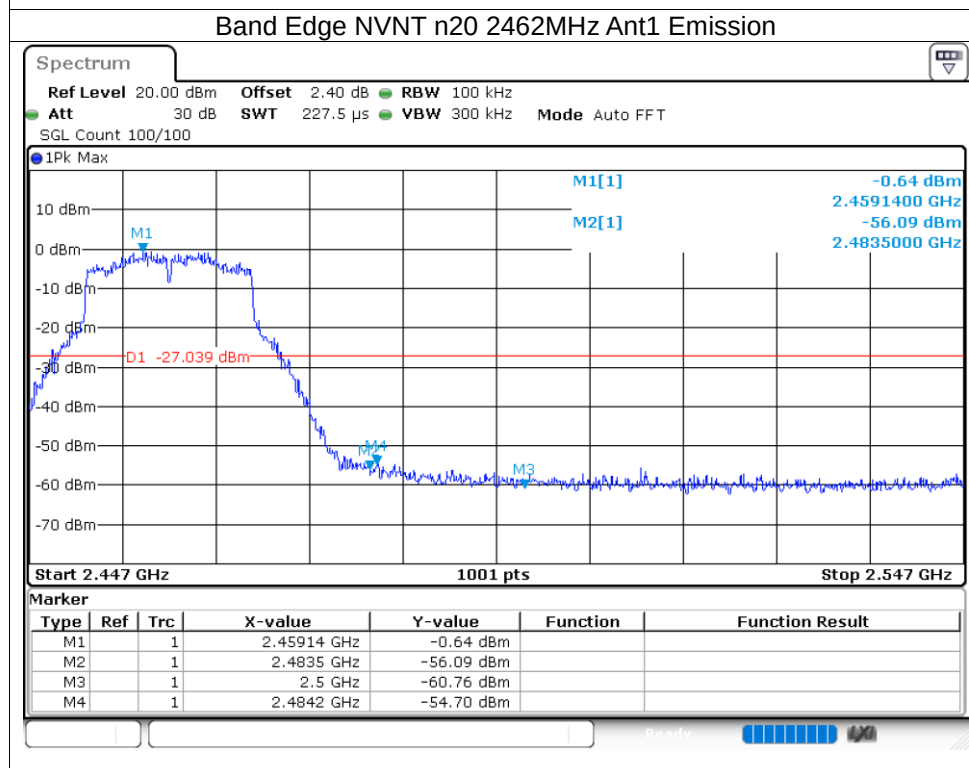
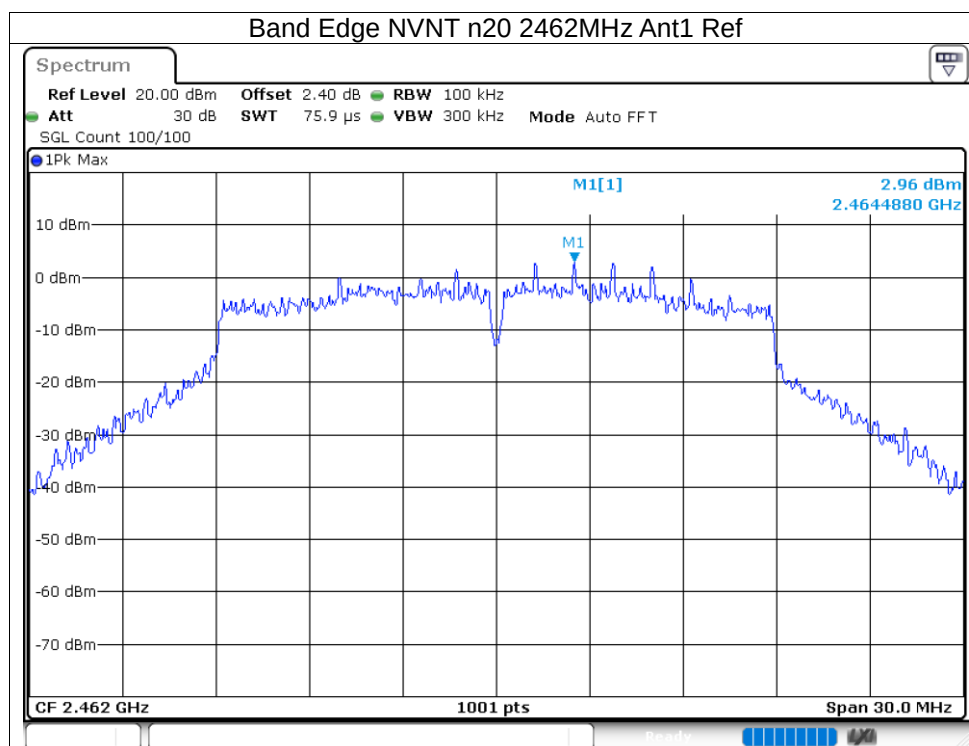


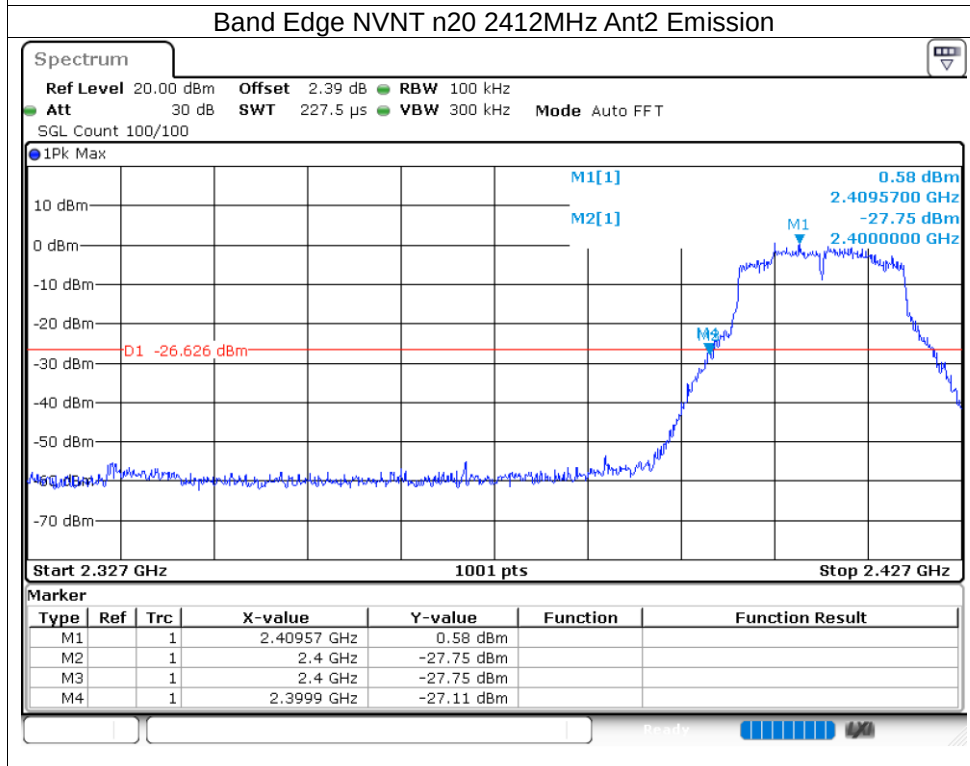
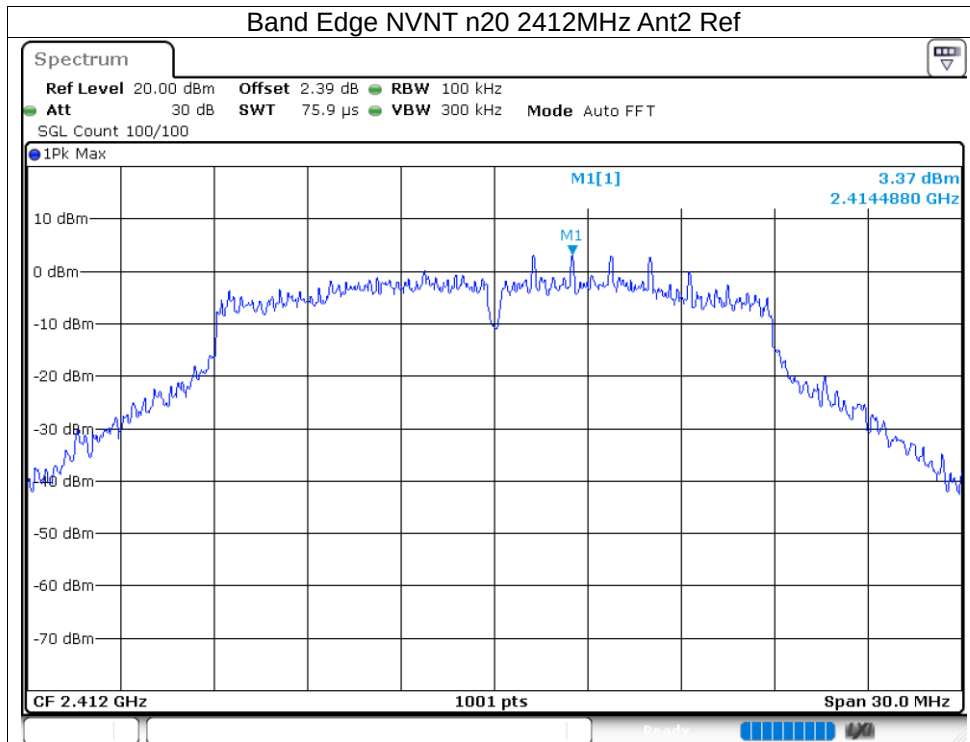
Band Edge NVNT n20 2412MHz Ant1 Ref

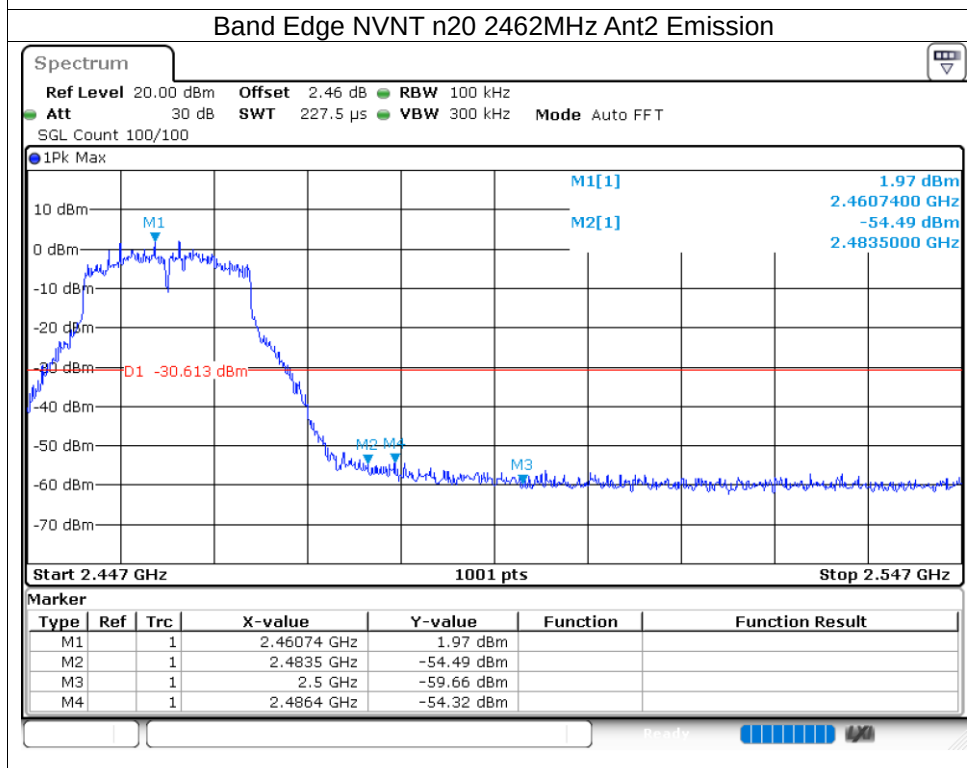
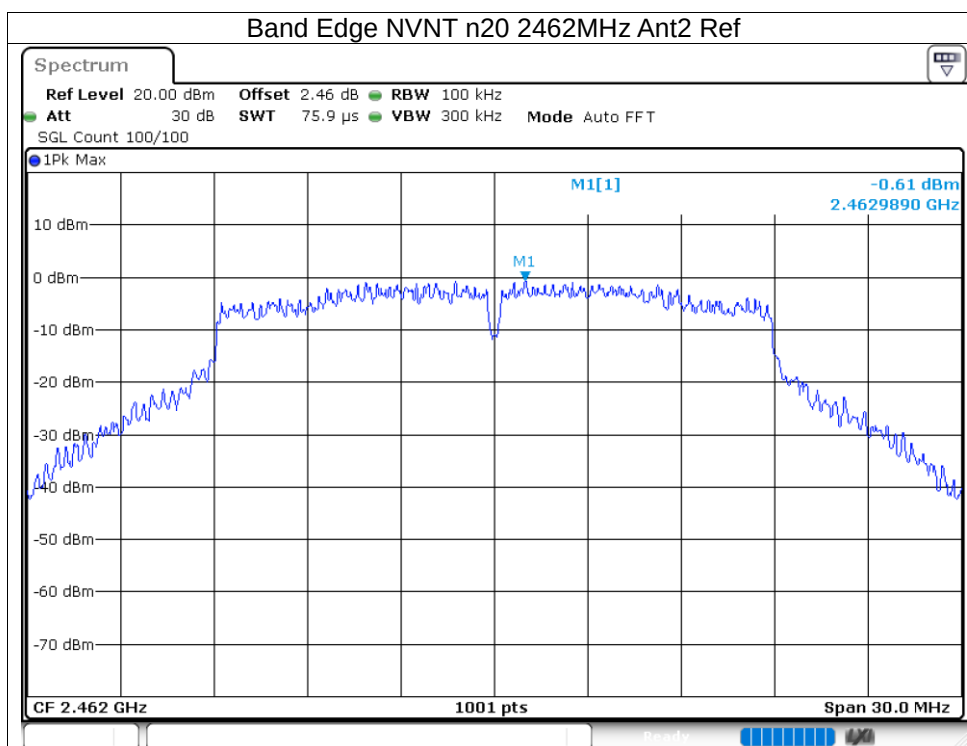


Band Edge NVNT n20 2412MHz Ant1 Emission

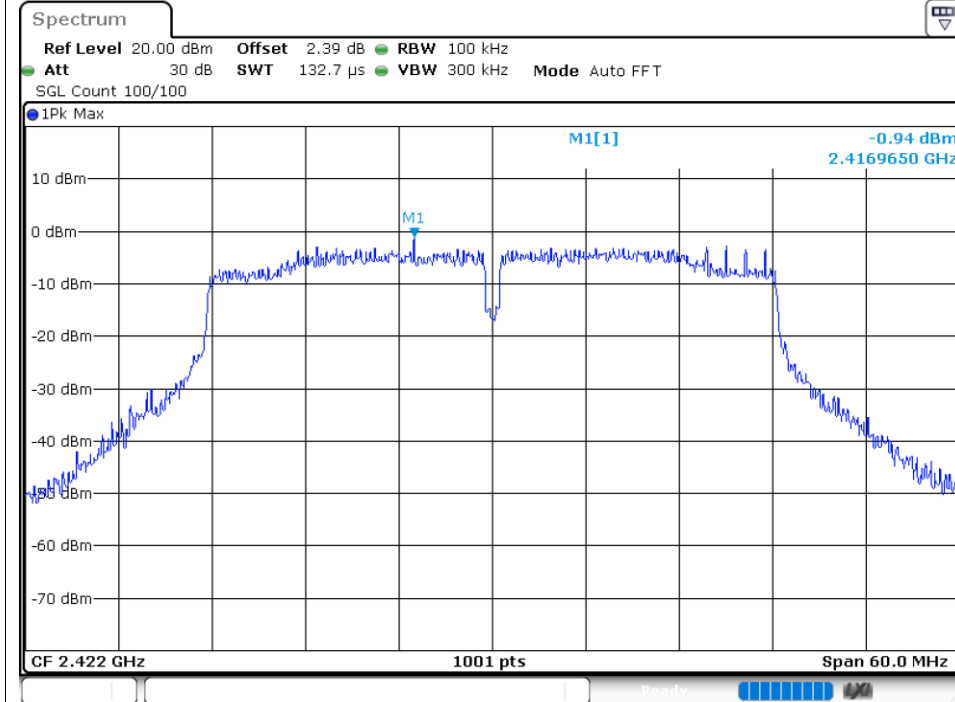




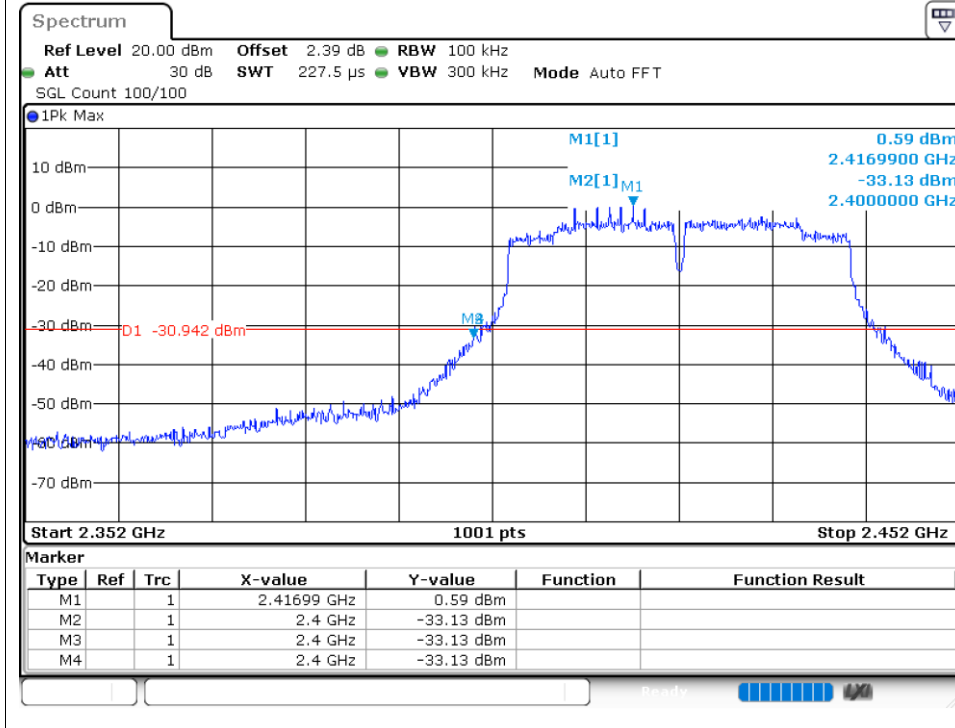


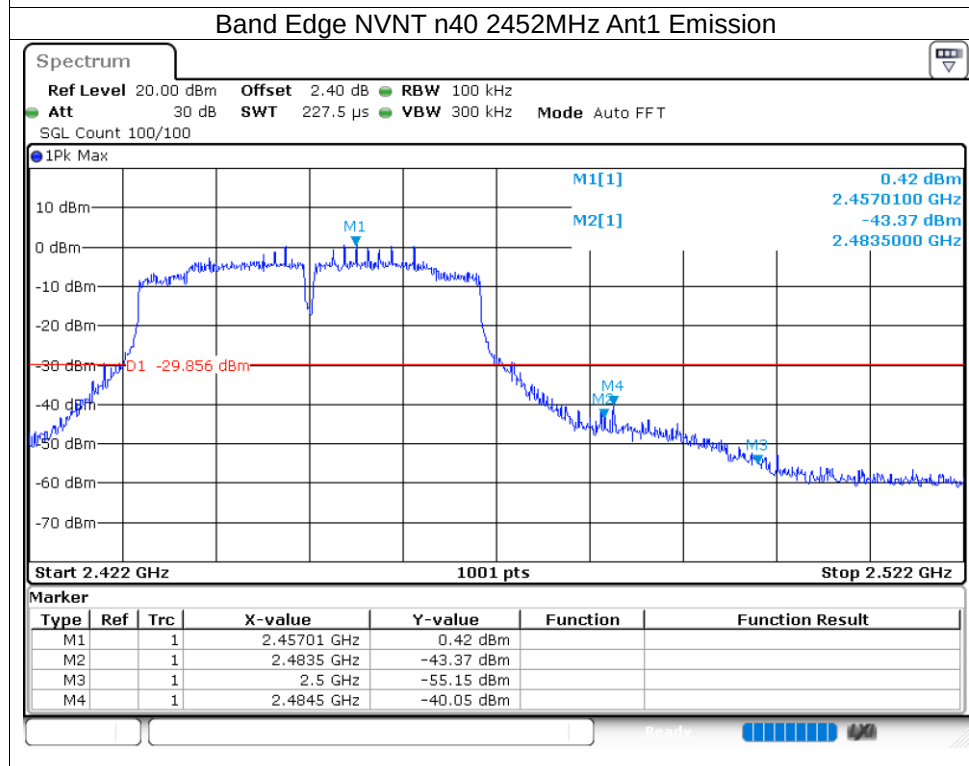
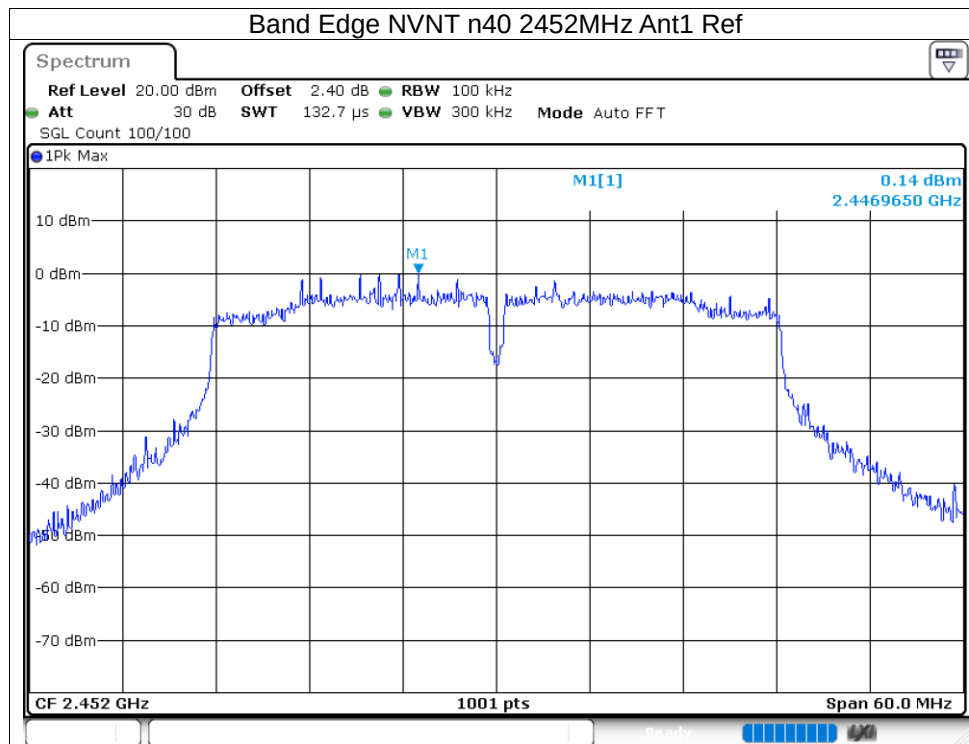


Band Edge NVNT n40 2422MHz Ant1 Ref

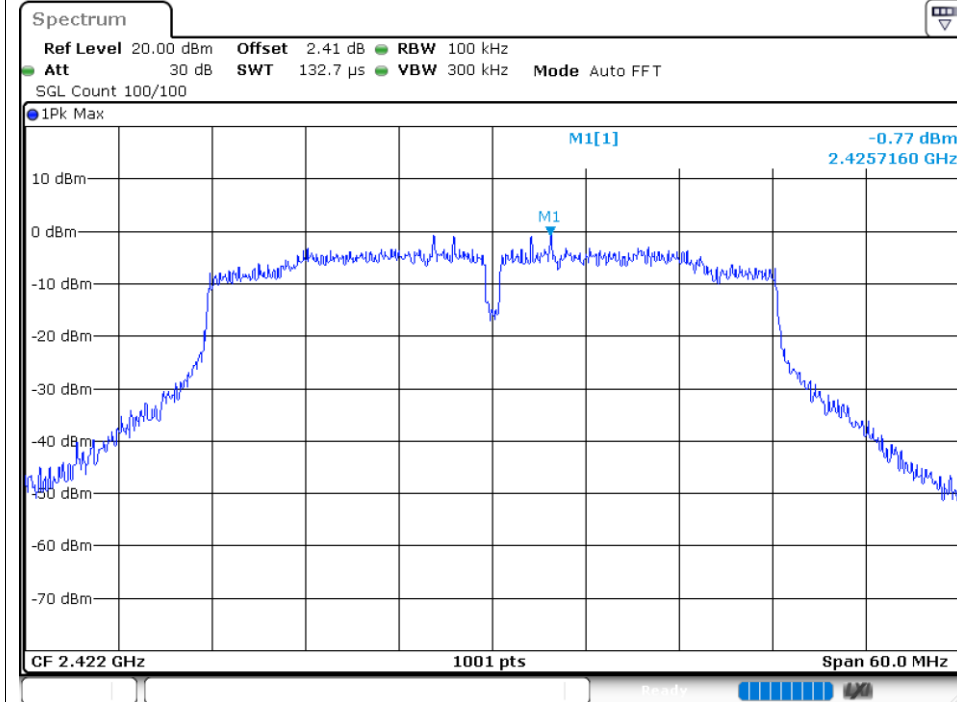


Band Edge NVNT n40 2422MHz Ant1 Emission

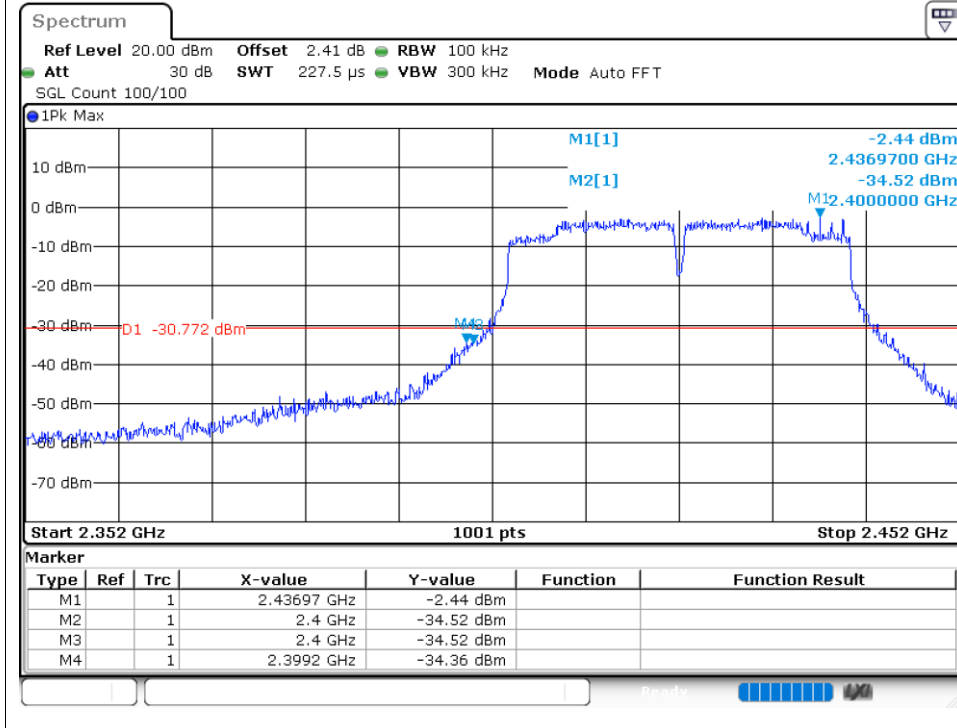




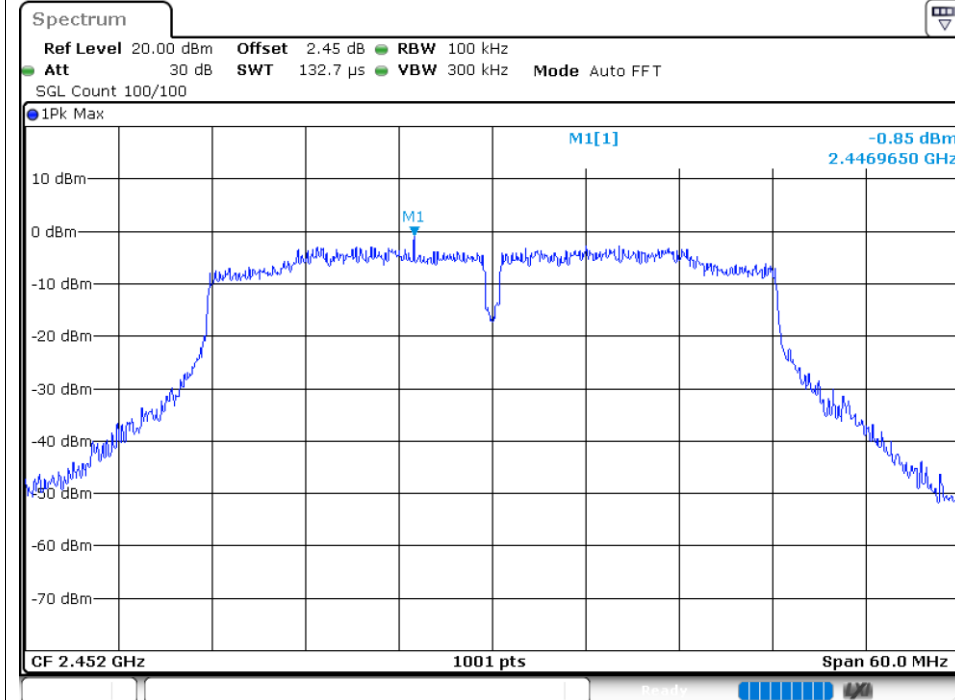
Band Edge NVNT n40 2422MHz Ant2 Ref



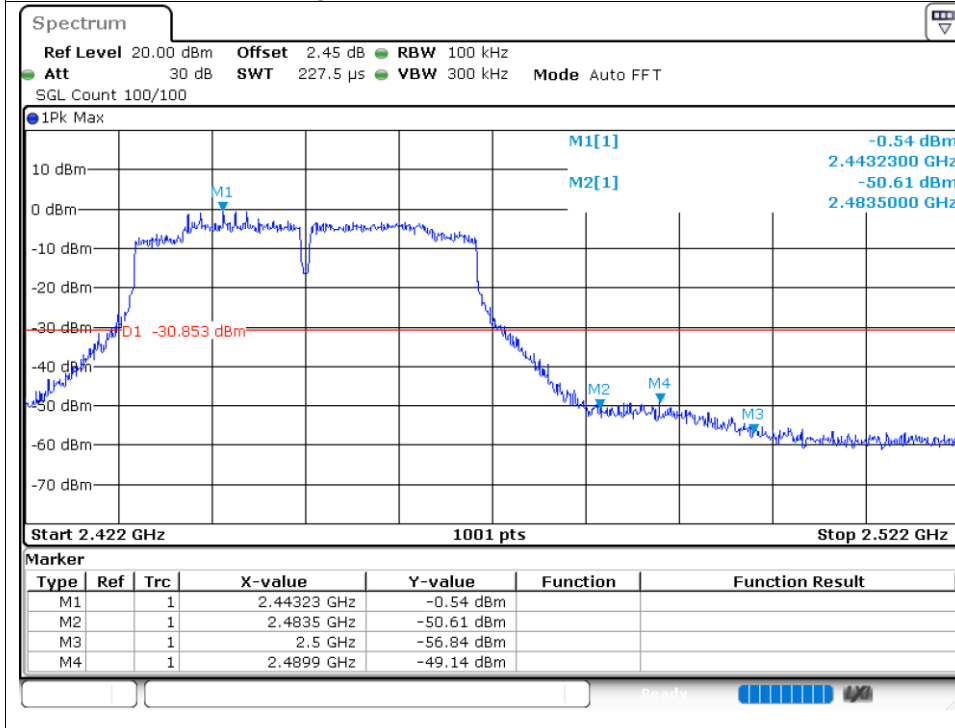
Band Edge NVNT n40 2422MHz Ant2 Emission



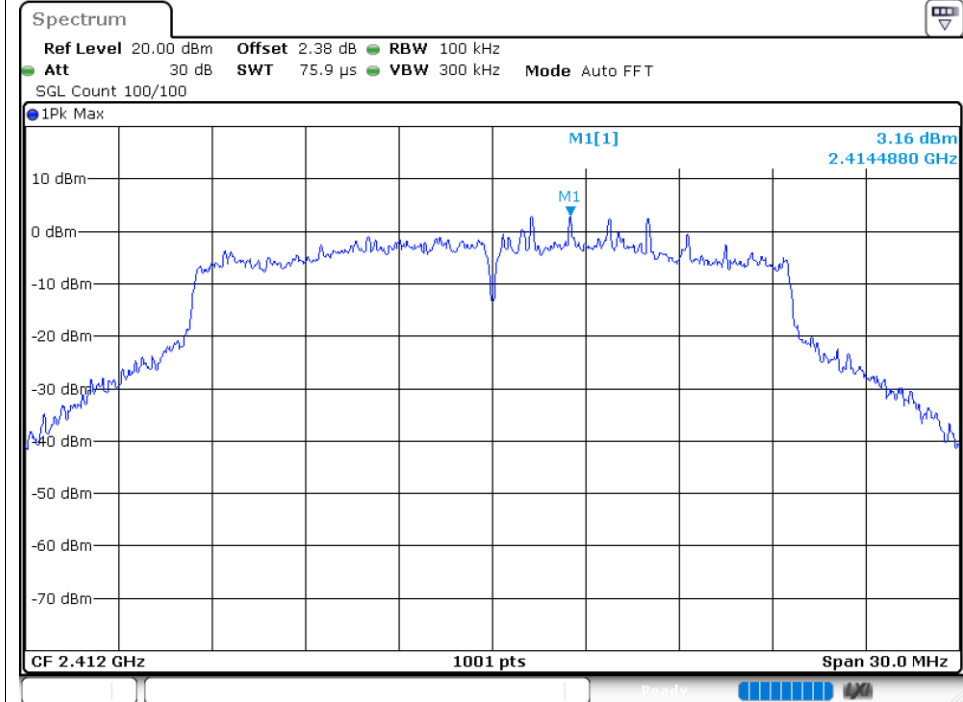
Band Edge NVNT n40 2452MHz Ant2 Ref



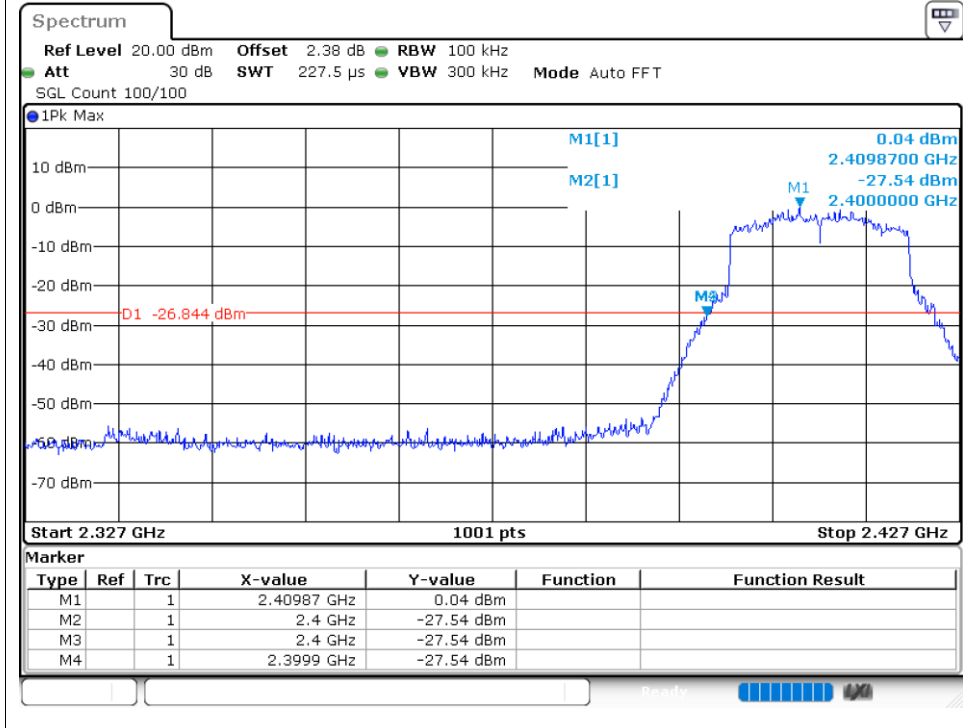
Band Edge NVNT n40 2452MHz Ant2 Emission



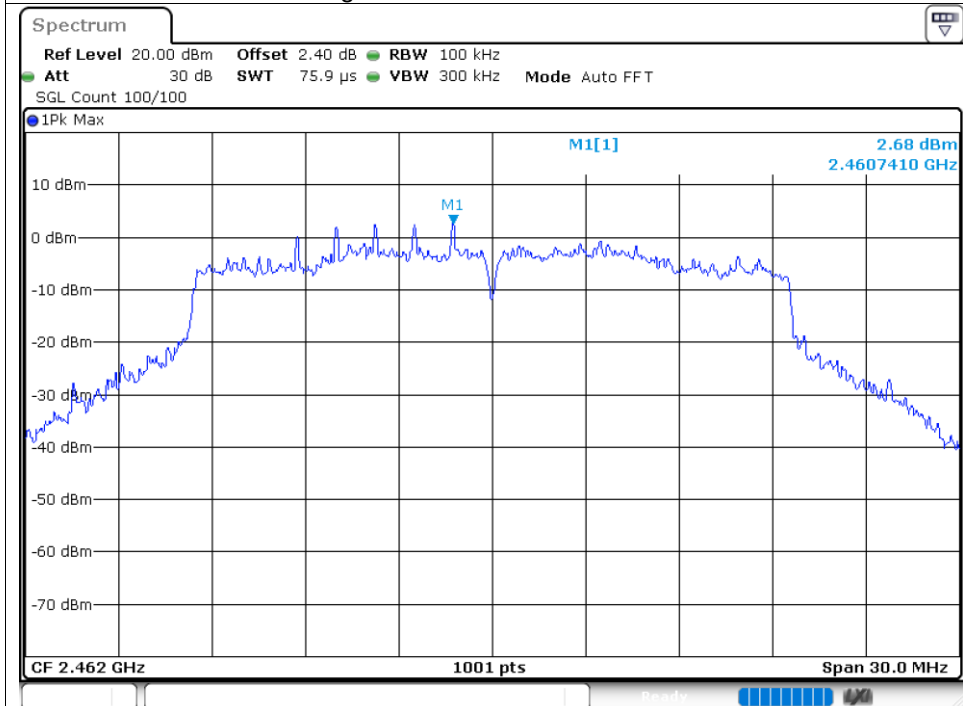
Band Edge NVNT ax20 2412MHz Ant1 Ref



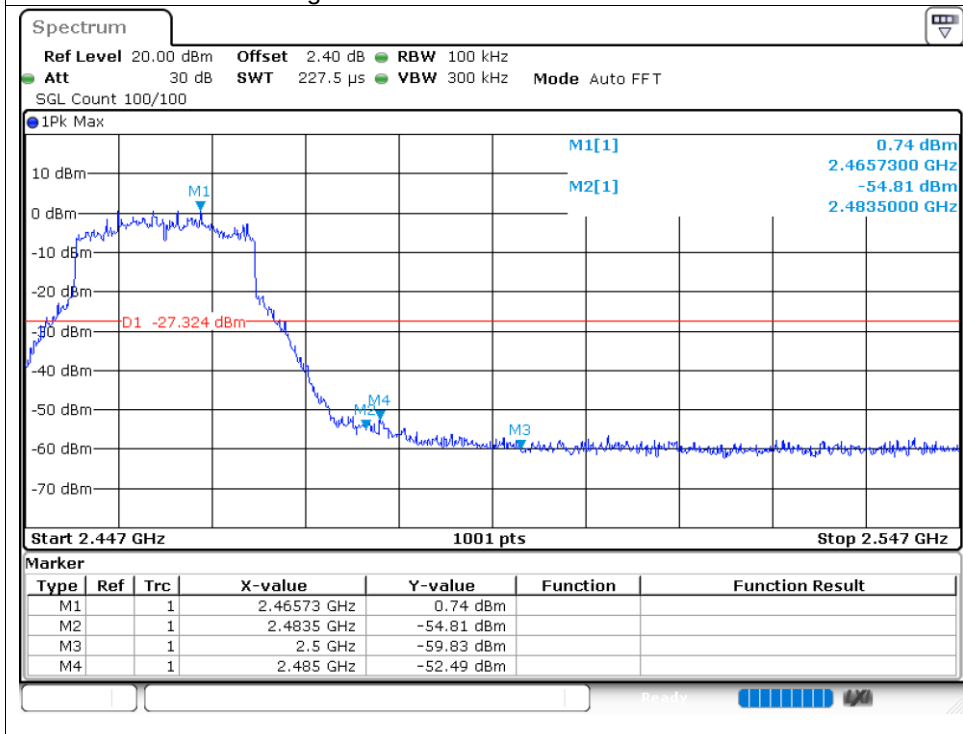
Band Edge NVNT ax20 2412MHz Ant1 Emission



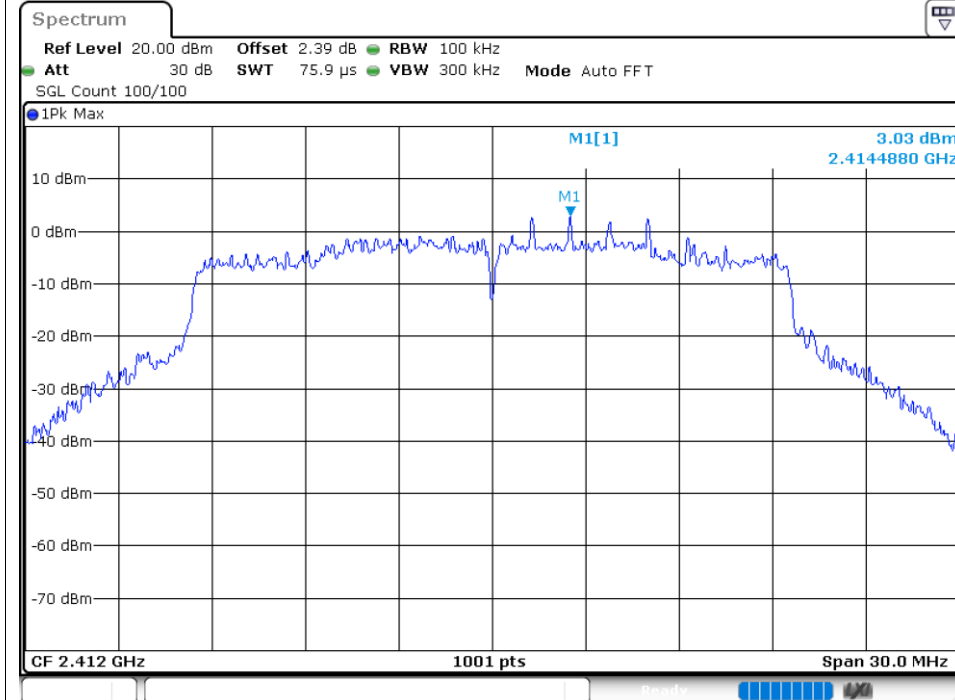
Band Edge NVNT ax20 2462MHz Ant1 Ref



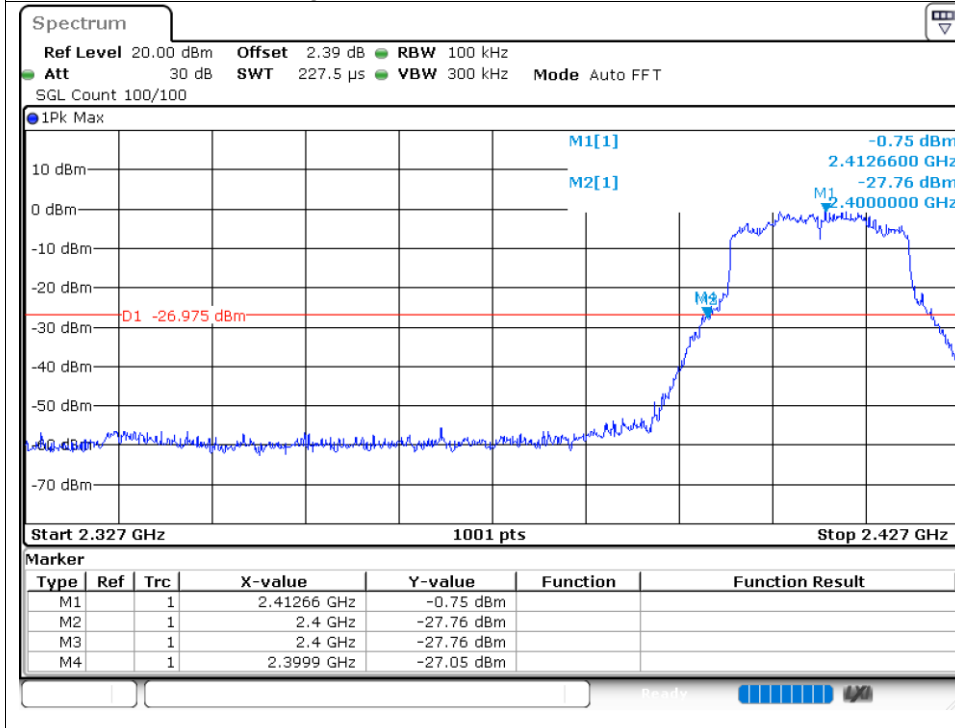
Band Edge NVNT ax20 2462MHz Ant1 Emission



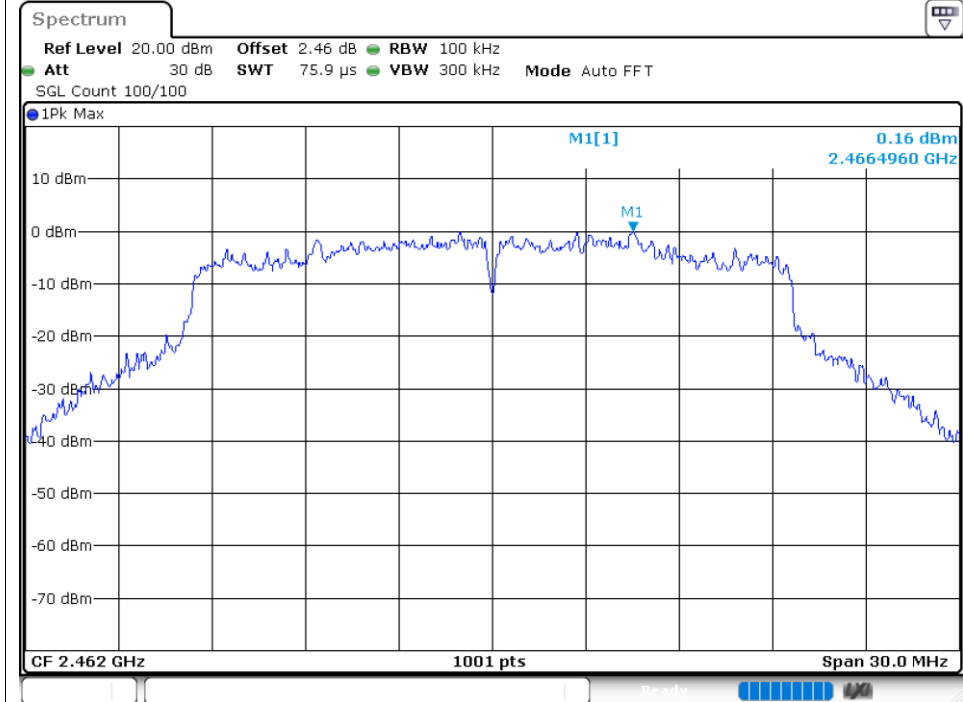
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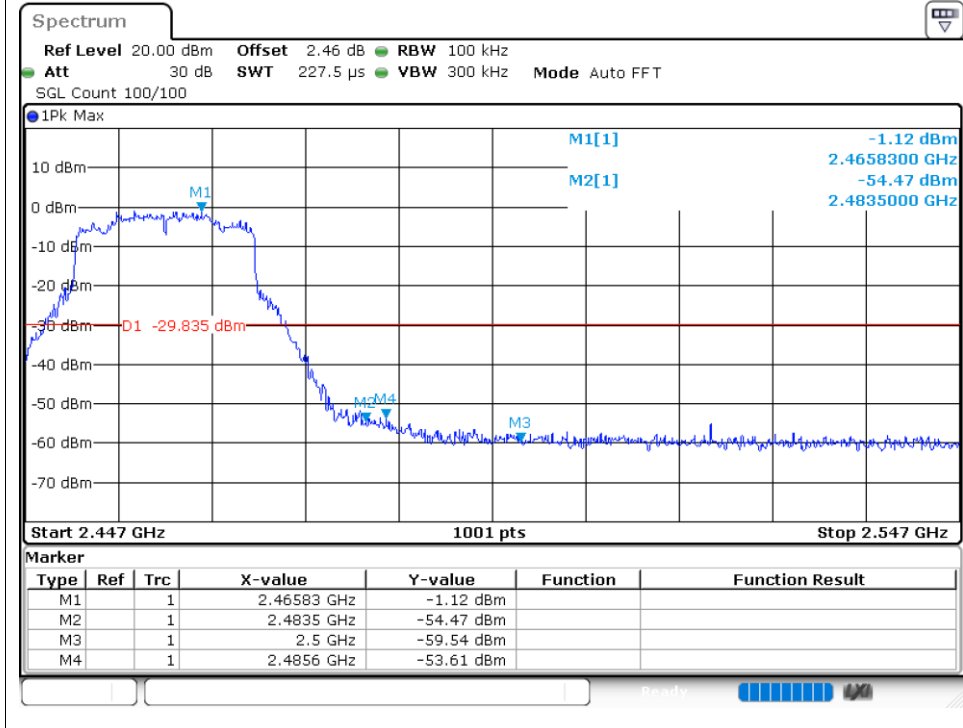
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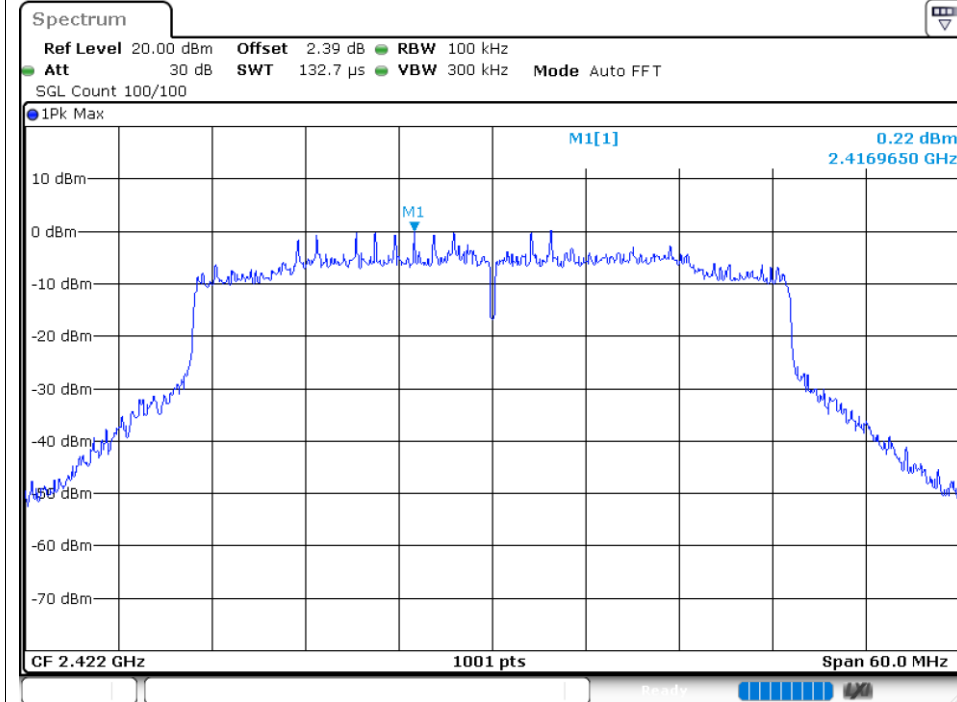
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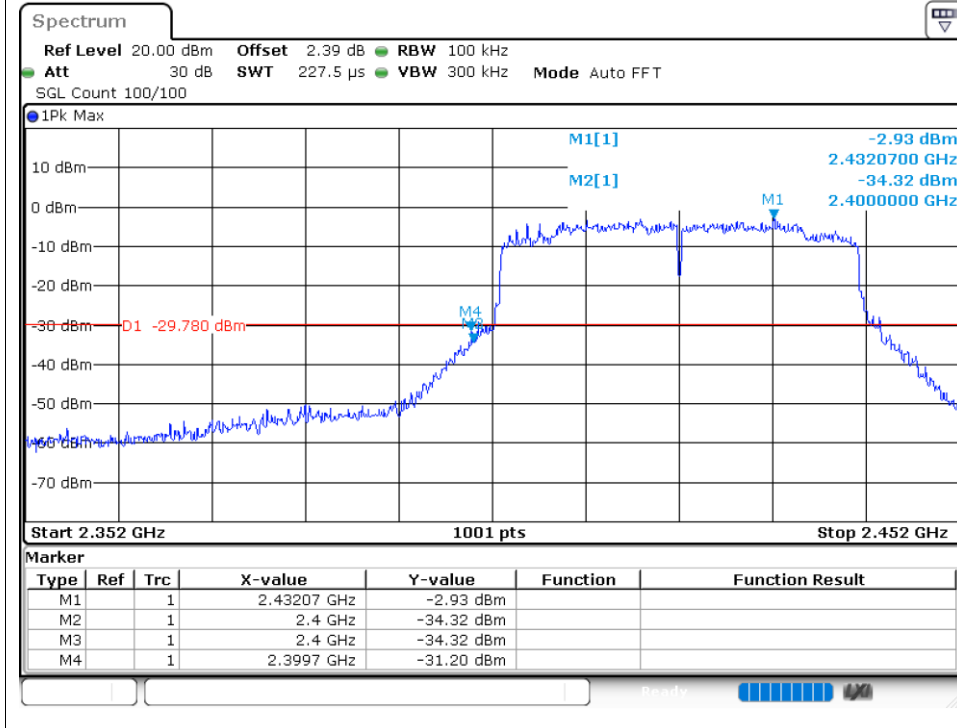
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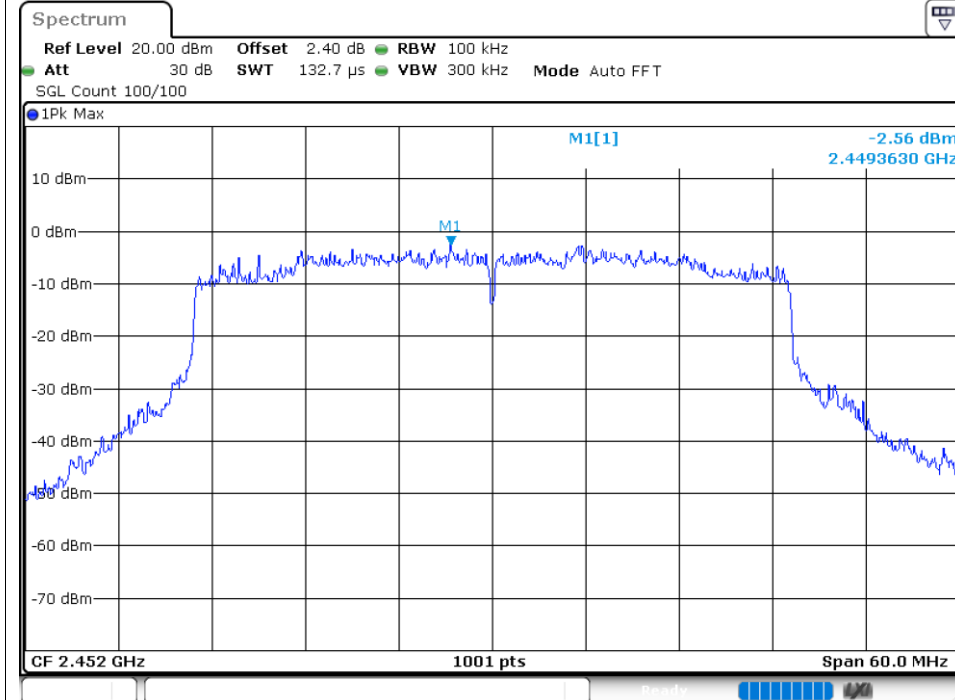
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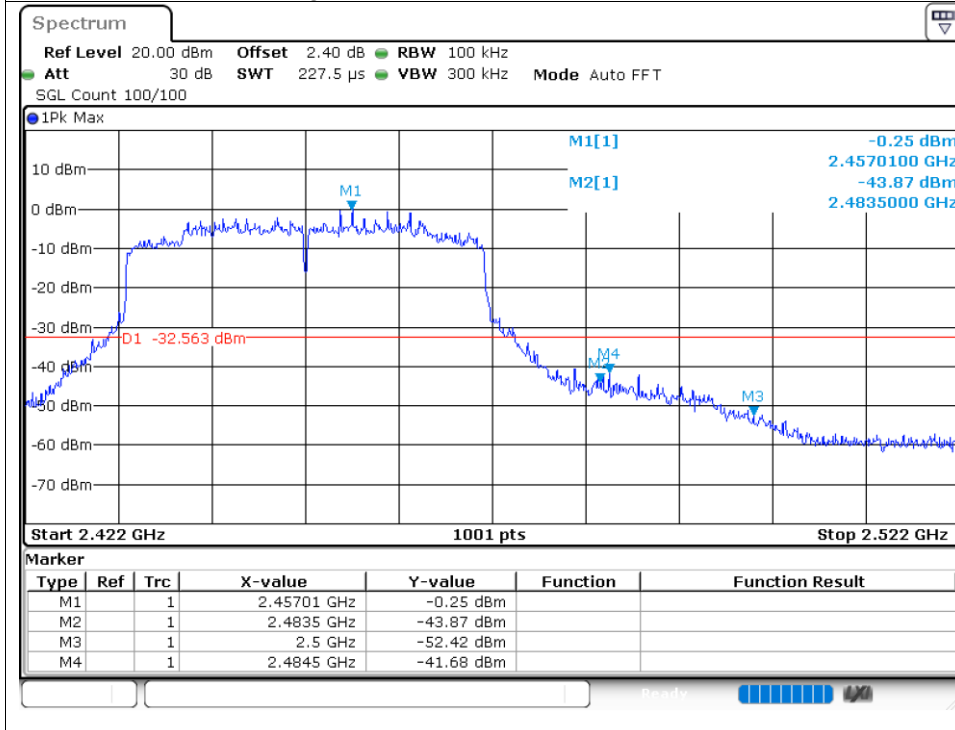
Band Edge NVNT ax40 2422MHz Ant1 Emission



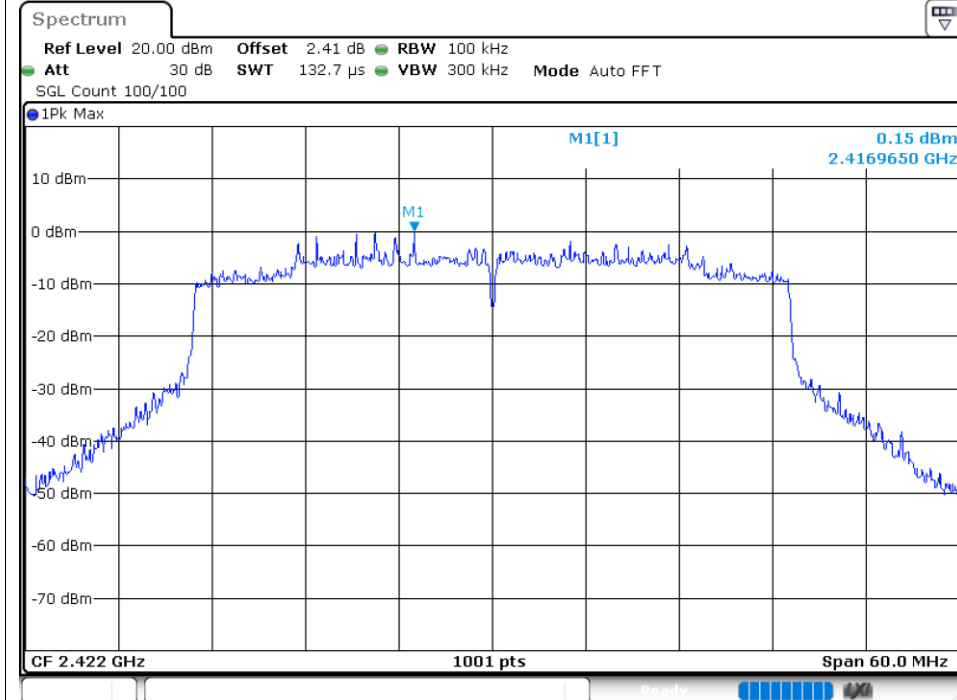
Band Edge NVNT ax40 2452MHz Ant1 Ref



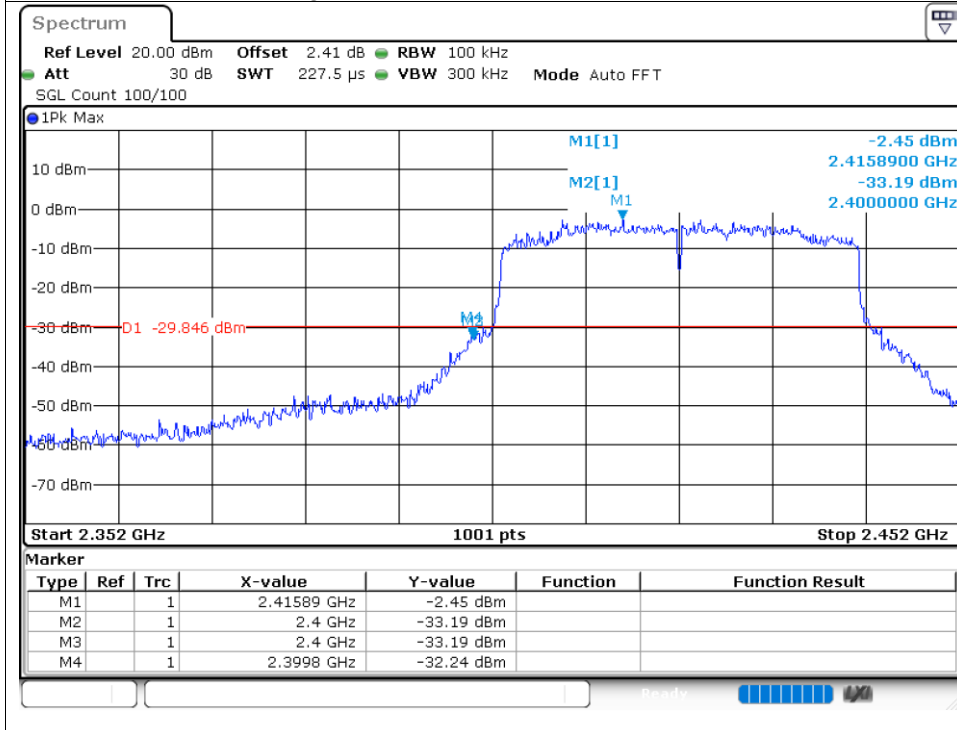
Band Edge NVNT ax40 2452MHz Ant1 Emission



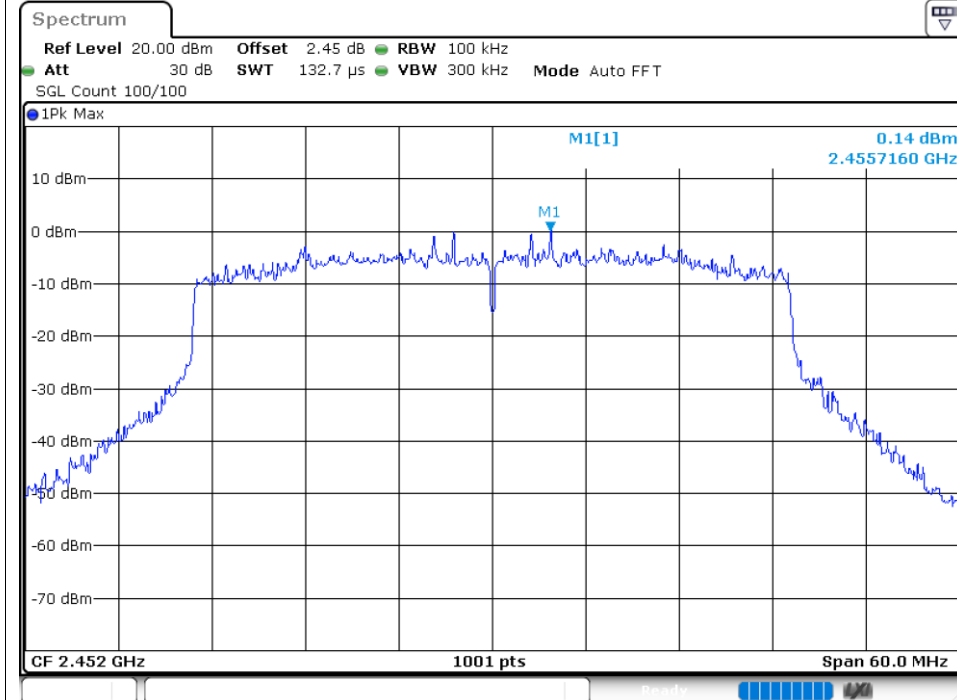
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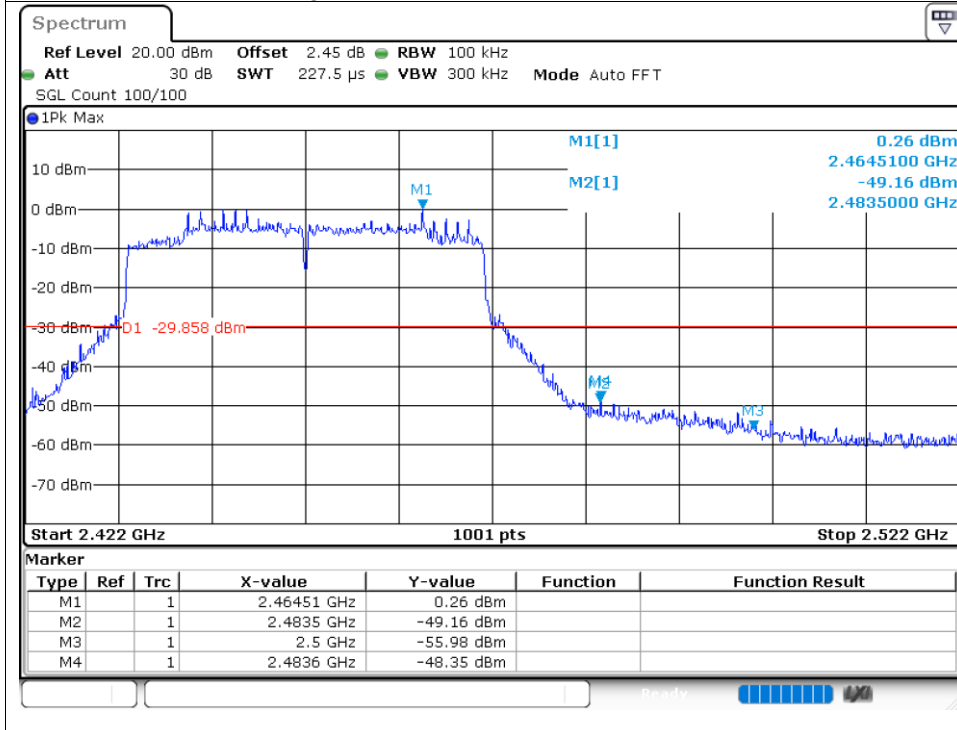
Band Edge NVNT ax40 2422MHz Ant2 Emission



Band Edge NVNT ax40 2452MHz Ant2 Ref



Band Edge NVNT ax40 2452MHz Ant2 Emission

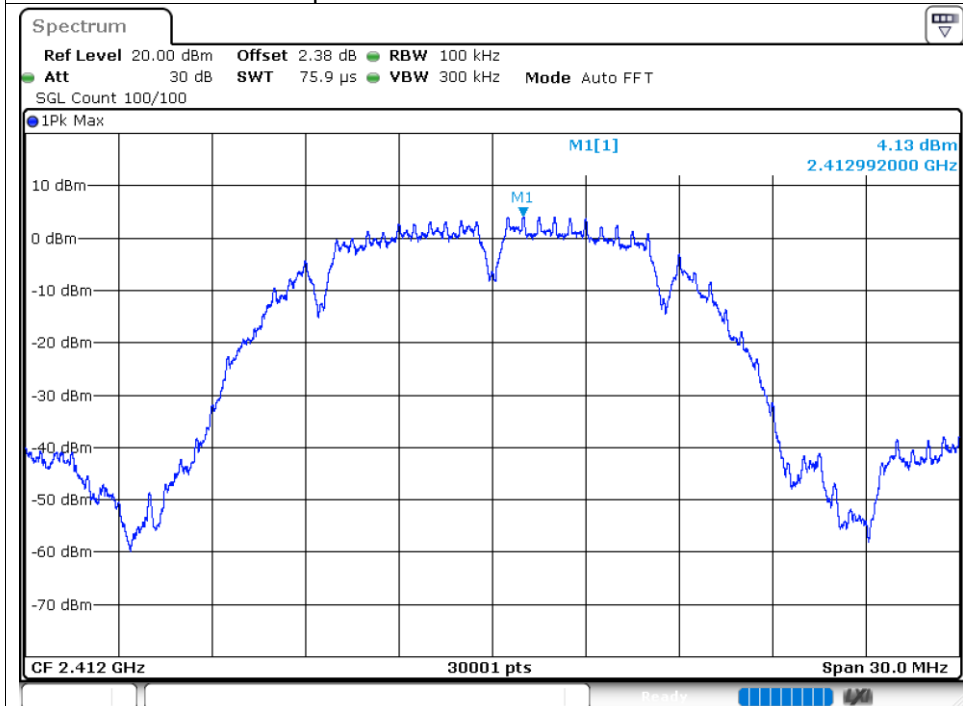


8.1.7 Conducted RF Spurious Emission

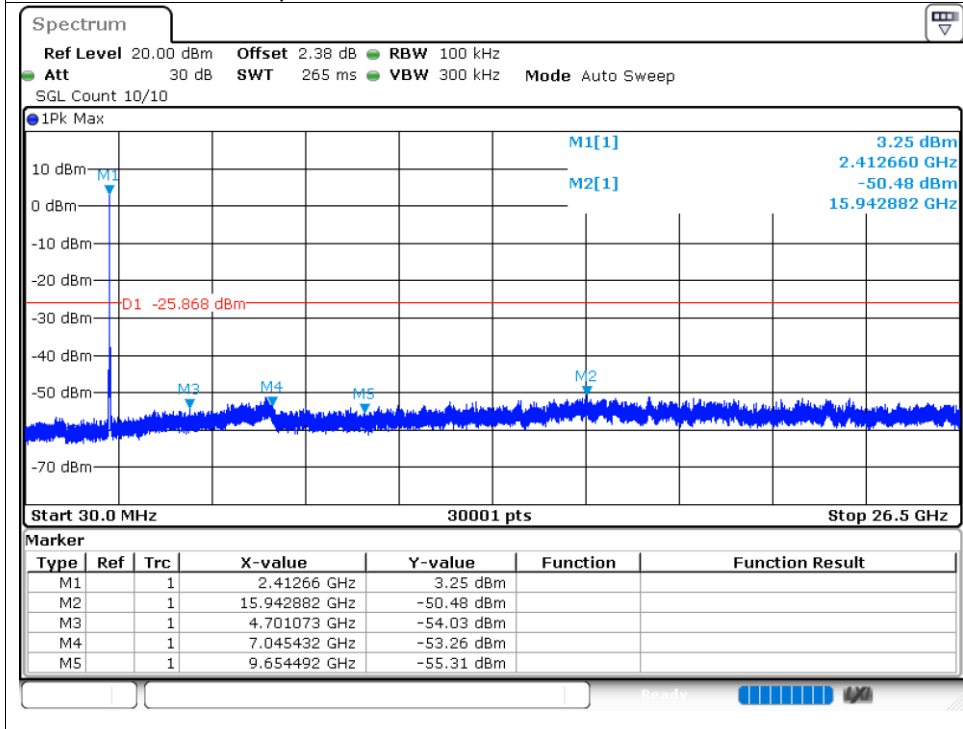
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-54.6	-30	Pass
NVNT	b	2437	Ant1	-54.47	-30	Pass
NVNT	b	2462	Ant1	-54.53	-30	Pass
NVNT	b	2412	Ant2	-56.89	-30	Pass
NVNT	b	2437	Ant2	-56.72	-30	Pass
NVNT	b	2462	Ant2	-55.34	-30	Pass
NVNT	g	2412	Ant1	-50.07	-30	Pass
NVNT	g	2437	Ant1	-53.65	-30	Pass
NVNT	g	2462	Ant1	-54.5	-30	Pass
NVNT	g	2412	Ant2	-52.5	-30	Pass
NVNT	g	2437	Ant2	-56.05	-30	Pass
NVNT	g	2462	Ant2	-52.7	-30	Pass
NVNT	n20	2412	Ant1	-49.38	-30	Pass
NVNT	n20	2437	Ant1	-50.94	-30	Pass
NVNT	n20	2462	Ant1	-52.04	-30	Pass
NVNT	n20	2412	Ant2	-50.11	-30	Pass
NVNT	n20	2437	Ant2	-50.49	-30	Pass
NVNT	n20	2462	Ant2	-52.4	-30	Pass
NVNT	n40	2422	Ant1	-49.14	-30	Pass
NVNT	n40	2437	Ant1	-51.47	-30	Pass
NVNT	n40	2452	Ant1	-46.81	-30	Pass
NVNT	n40	2422	Ant2	-47.41	-30	Pass
NVNT	n40	2437	Ant2	-48.3	-30	Pass
NVNT	n40	2452	Ant2	-48.82	-30	Pass
NVNT	ax20	2412	Ant1	-49.05	-30	Pass
NVNT	ax20	2437	Ant1	-49.89	-30	Pass
NVNT	ax20	2462	Ant1	-52.59	-30	Pass
NVNT	ax20	2412	Ant2	-49.09	-30	Pass
NVNT	ax20	2437	Ant2	-53.62	-30	Pass
NVNT	ax20	2462	Ant2	-49.81	-30	Pass
NVNT	ax40	2422	Ant1	-49.34	-30	Pass
NVNT	ax40	2437	Ant1	-49.59	-30	Pass
NVNT	ax40	2452	Ant1	-47.87	-30	Pass
NVNT	ax40	2422	Ant2	-47.64	-30	Pass
NVNT	ax40	2437	Ant2	-48.56	-30	Pass
NVNT	ax40	2452	Ant2	-47	-30	Pass

Test Graphs

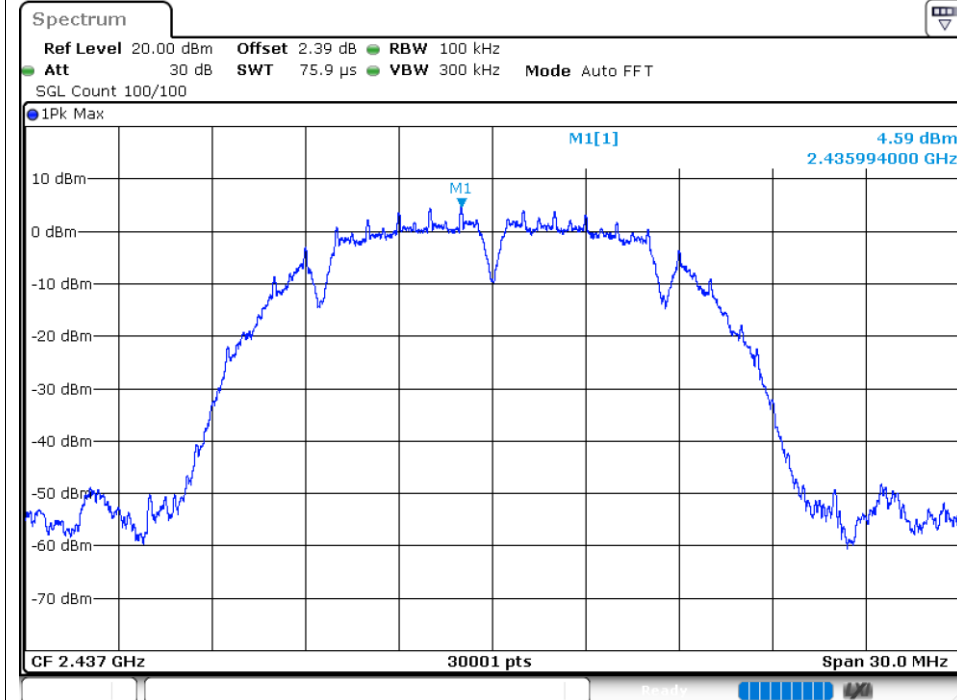
Tx. Spurious NVNT b 2412MHz Ant1 Ref



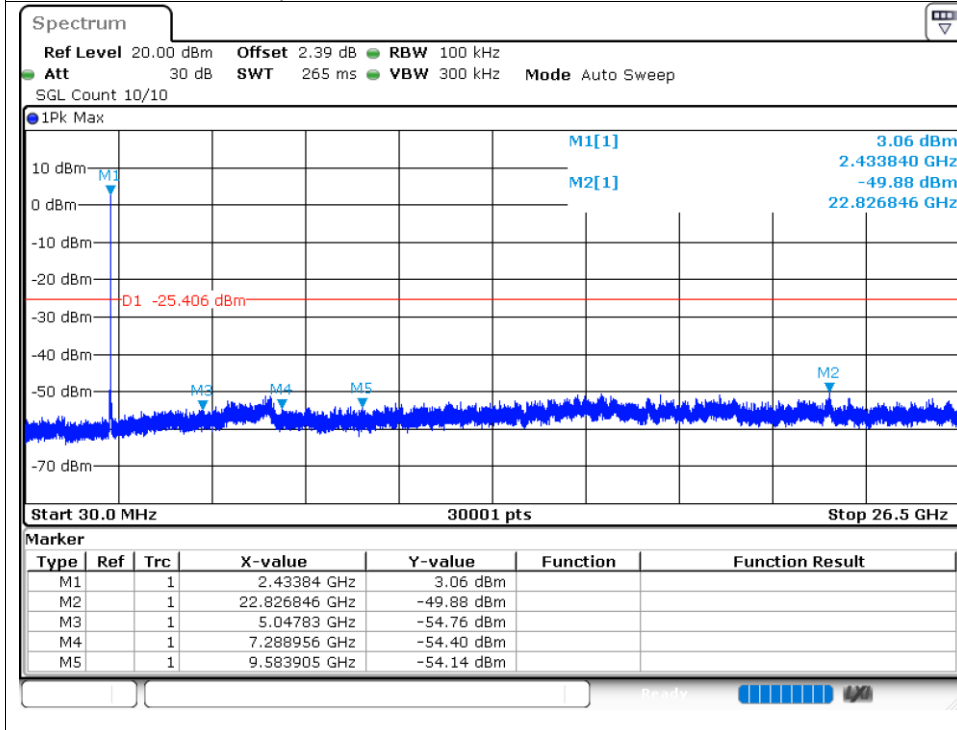
Tx. Spurious NVNT b 2412MHz Ant1 Emission



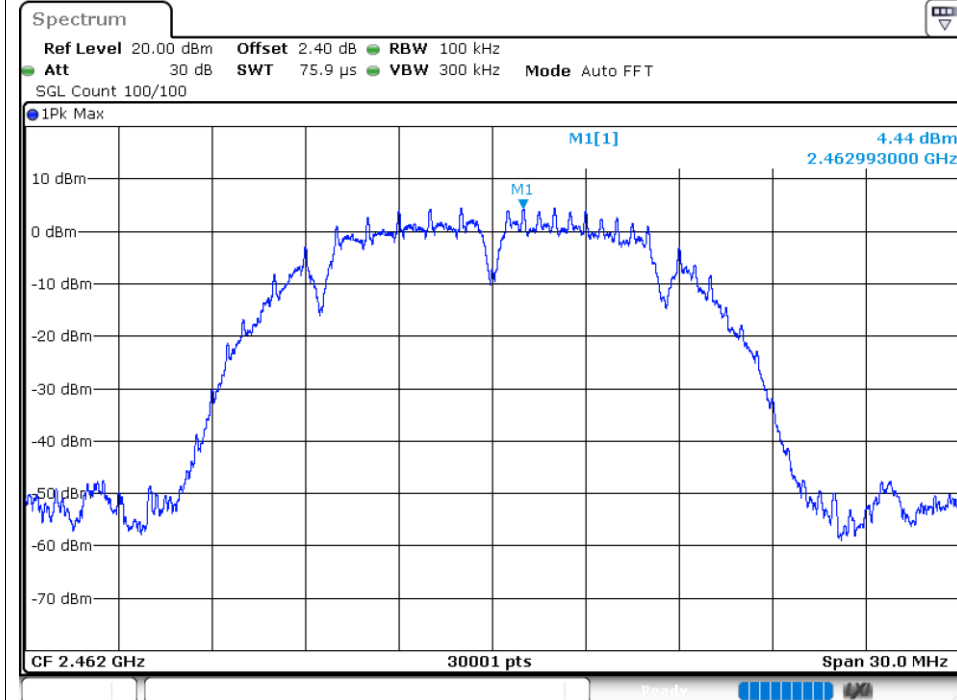
Tx. Spurious NVNT b 2437MHz Ant1 Ref



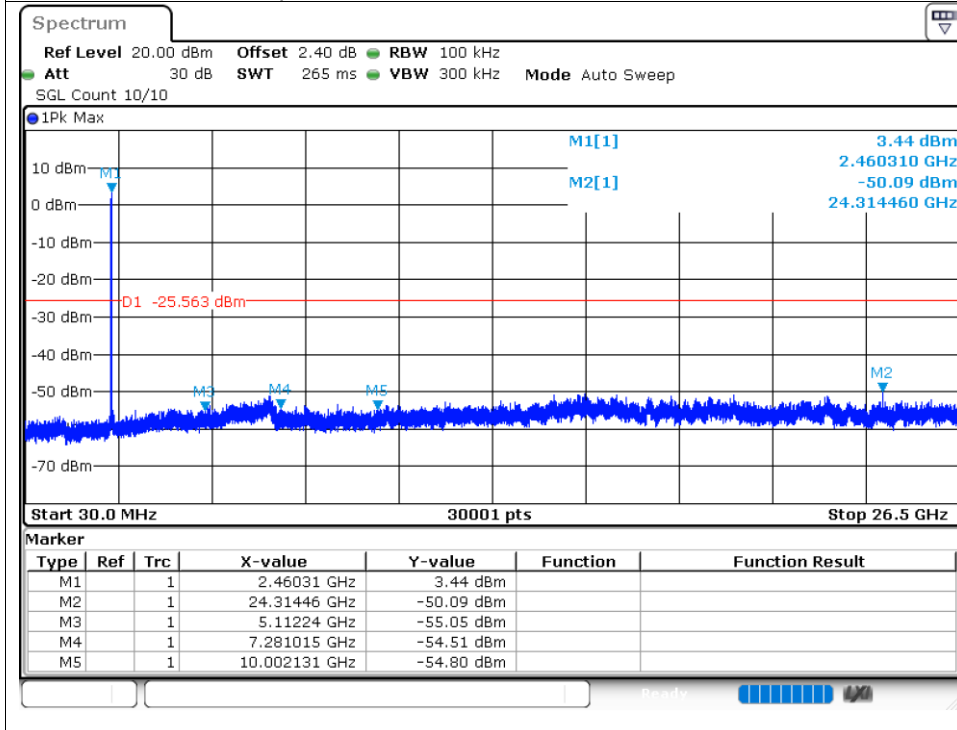
Tx. Spurious NVNT b 2437MHz Ant1 Emission

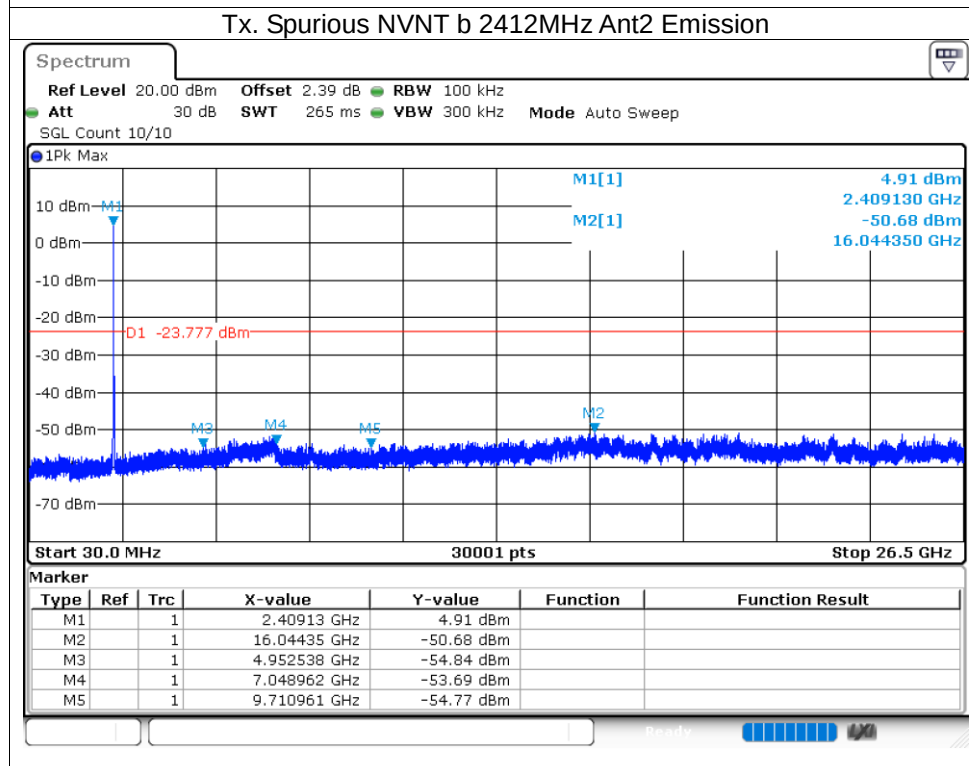
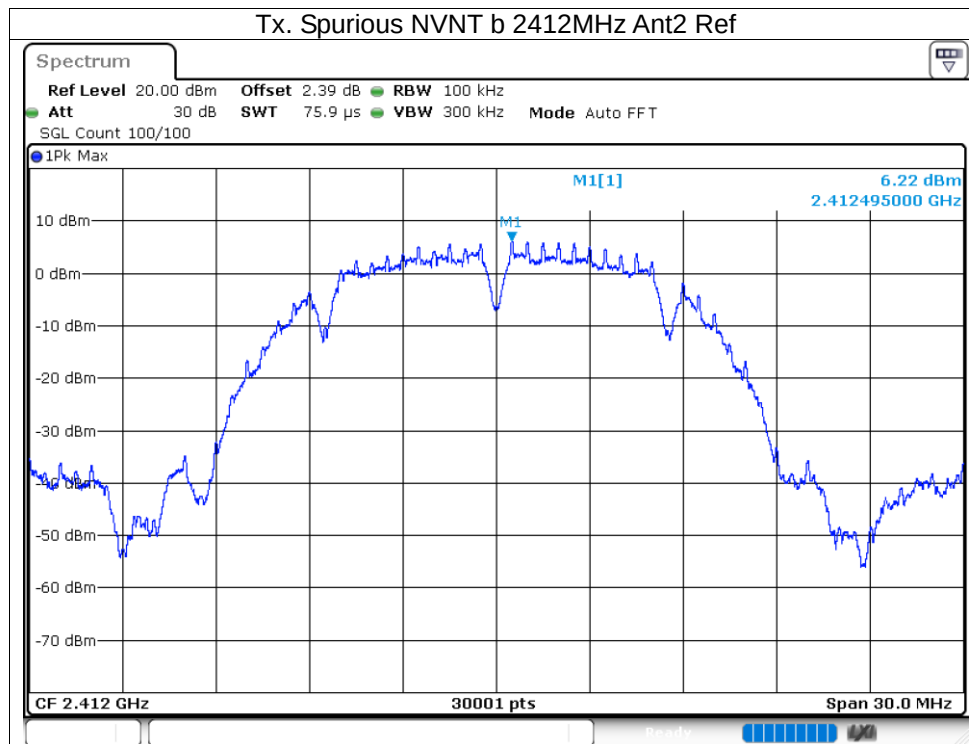


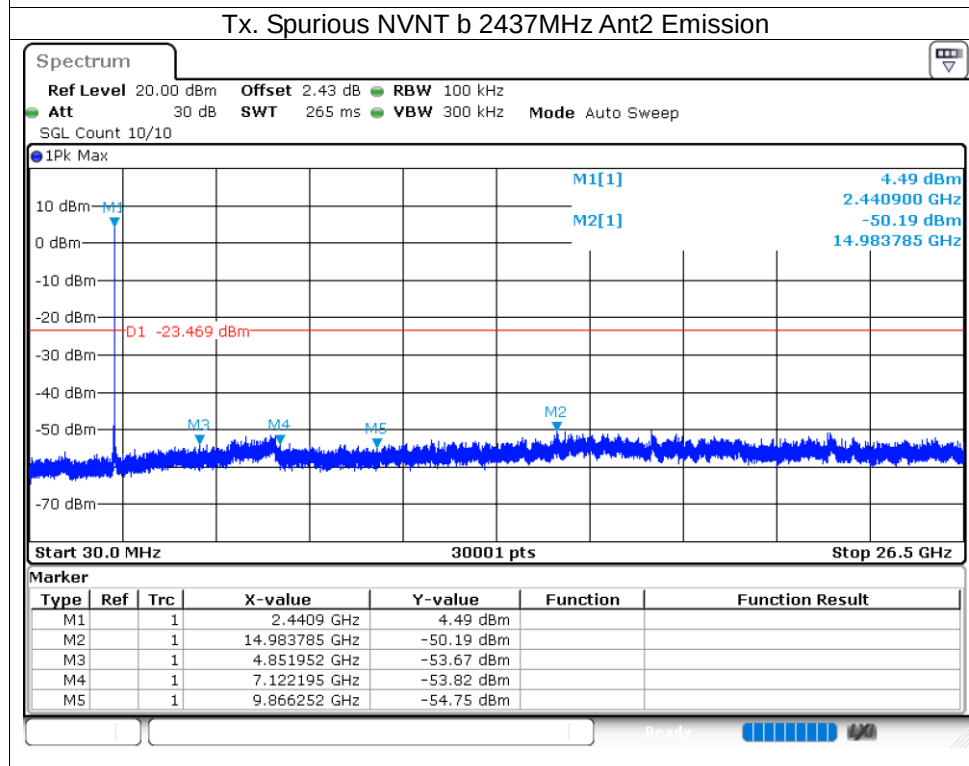
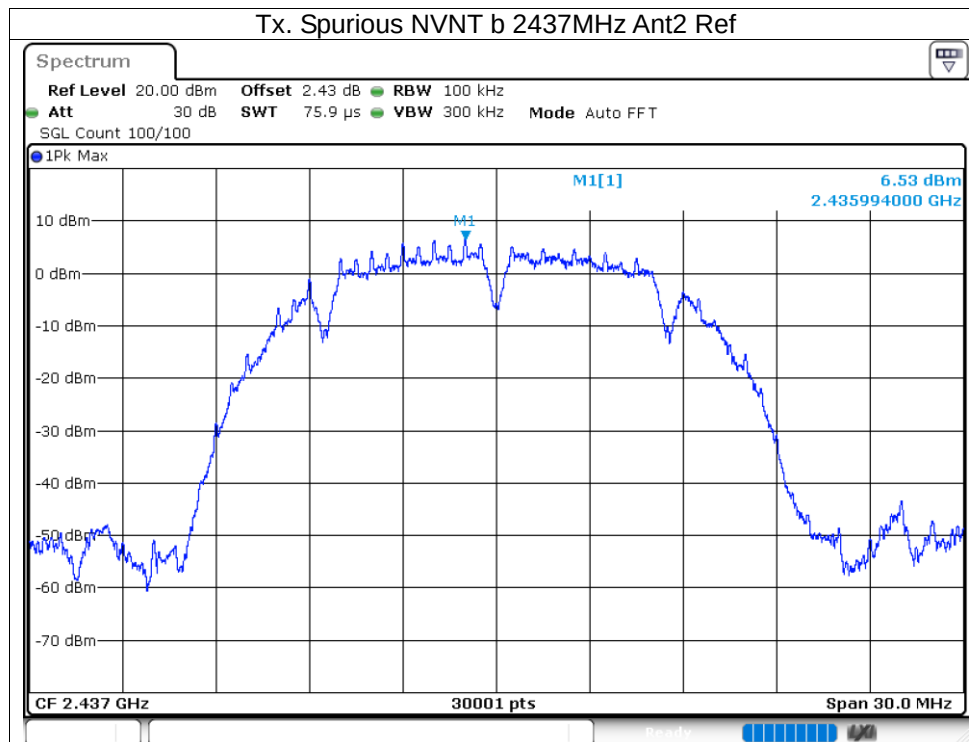
Tx. Spurious NVNT b 2462MHz Ant1 Ref



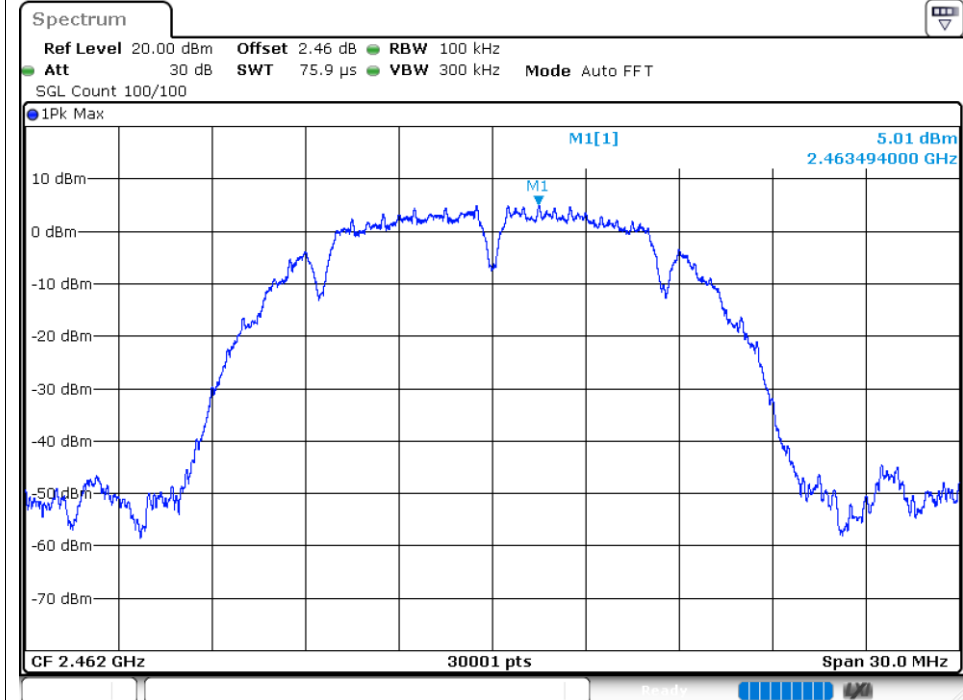
Tx. Spurious NVNT b 2462MHz Ant1 Emission



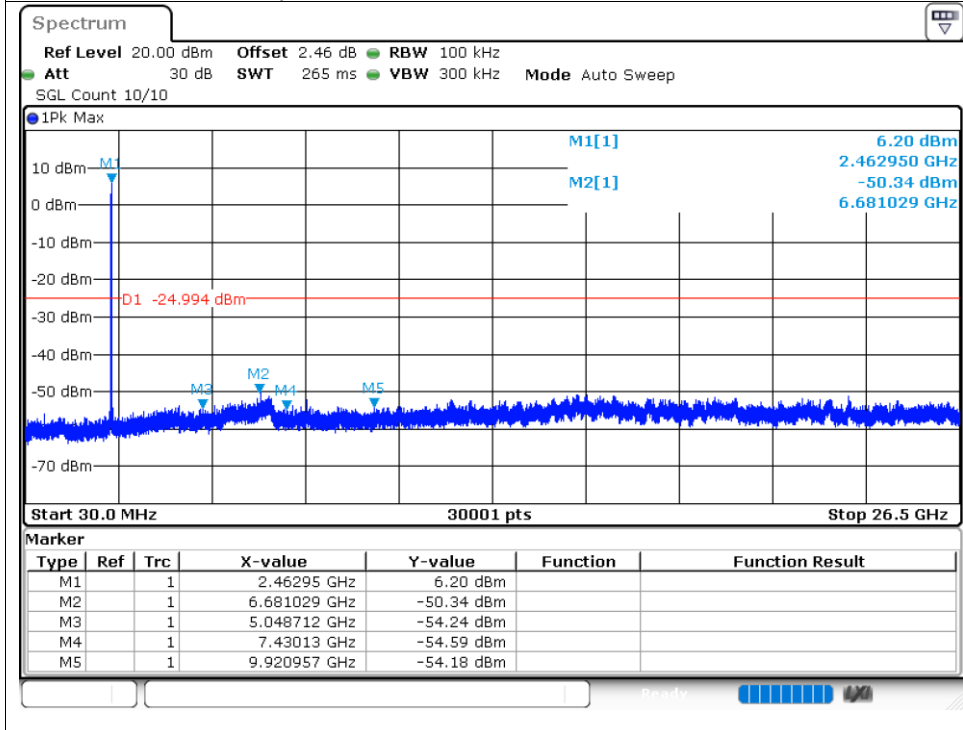


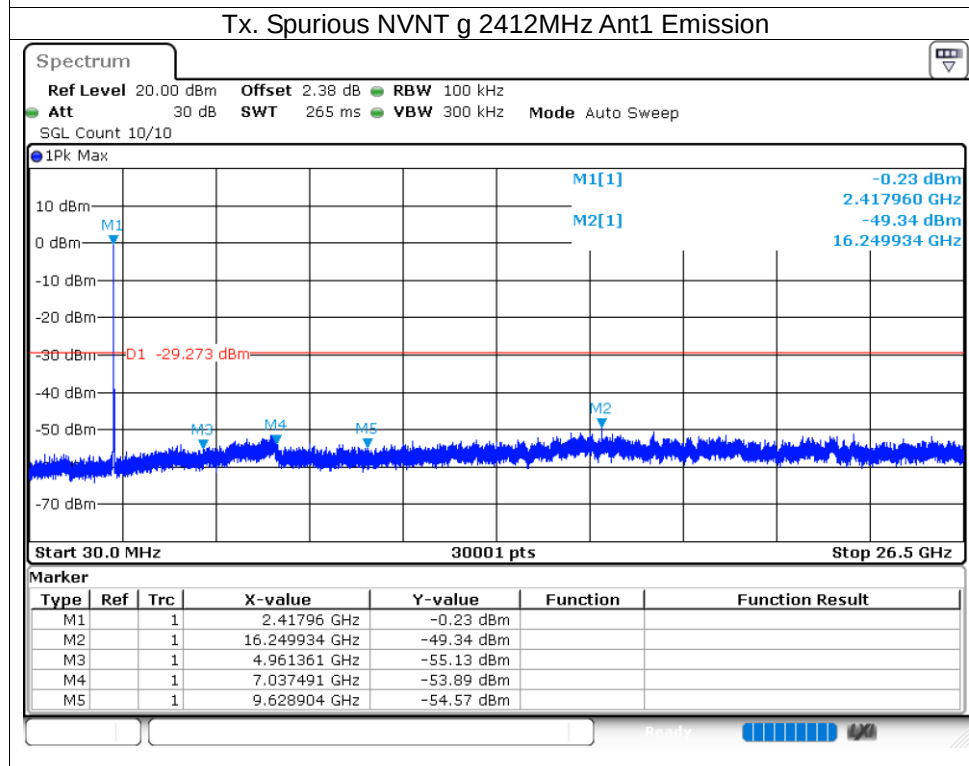
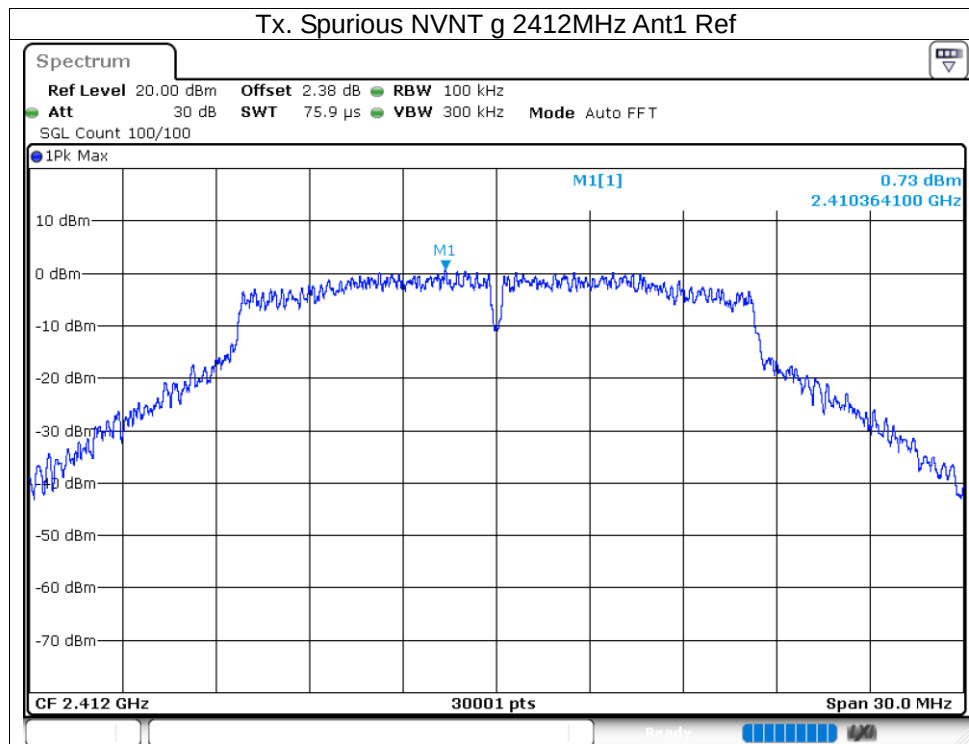


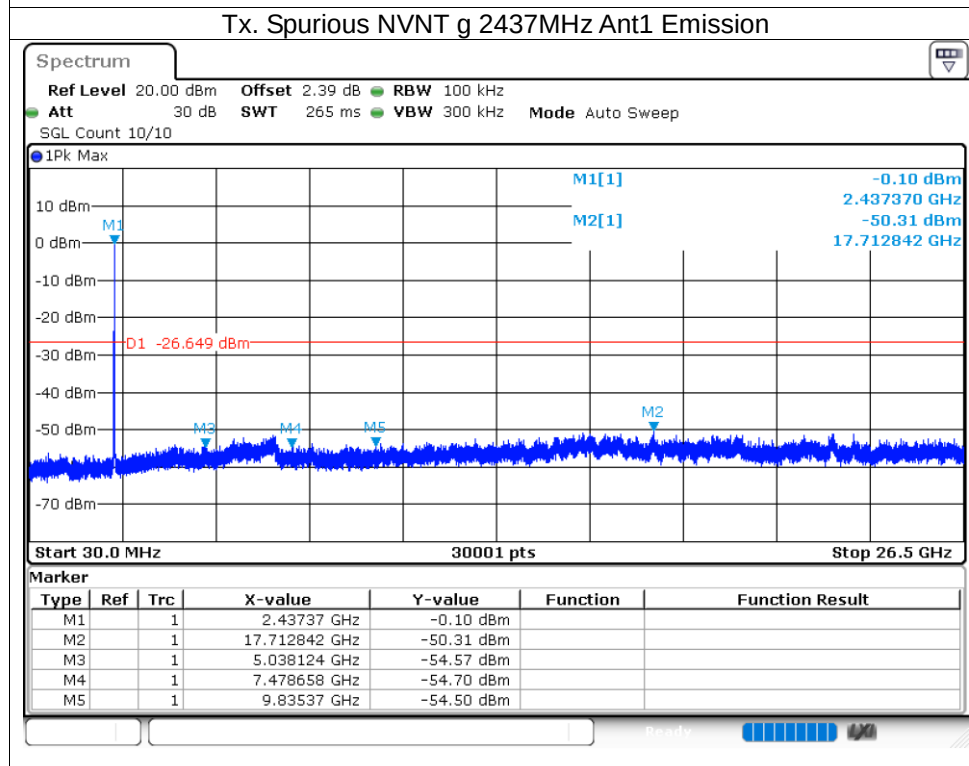
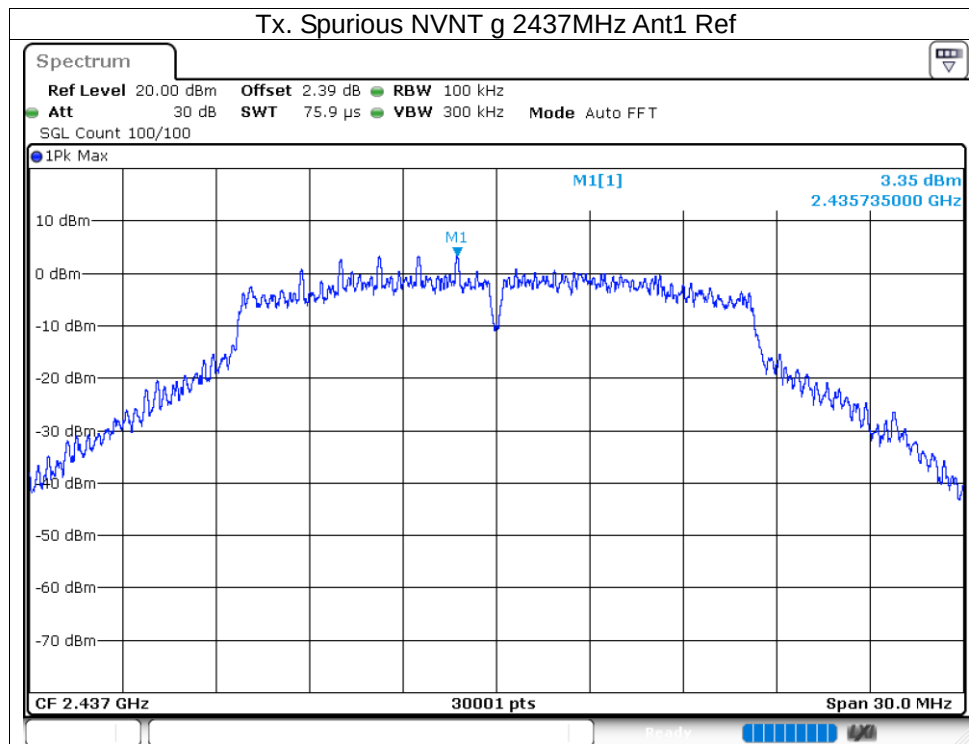
Tx. Spurious NVNT b 2462MHz Ant2 Ref

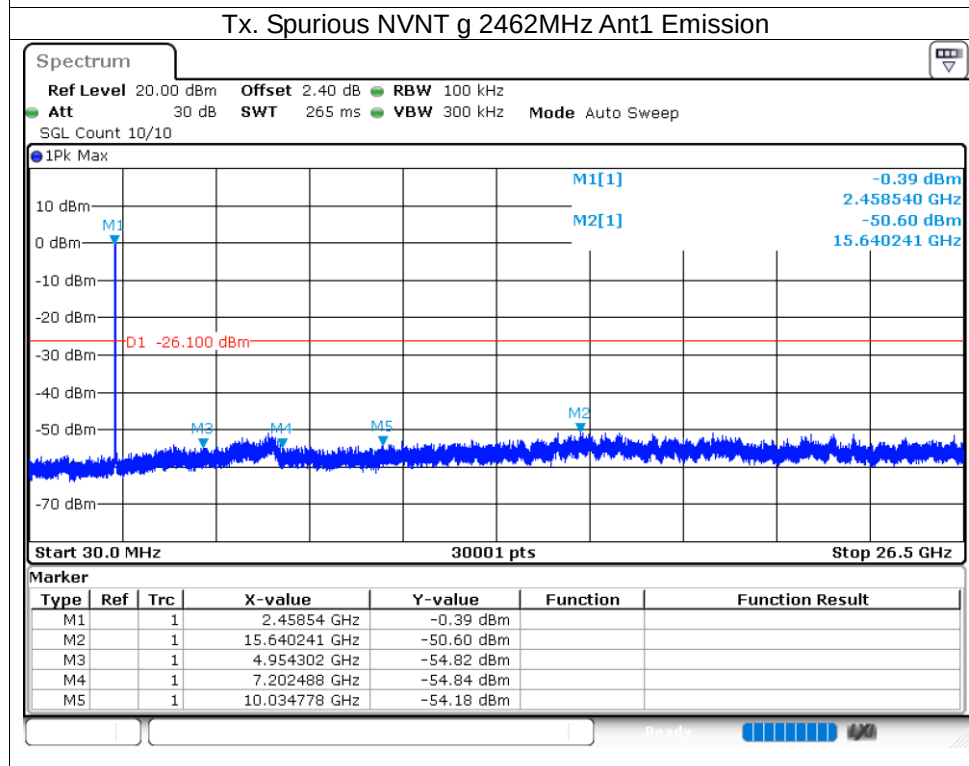
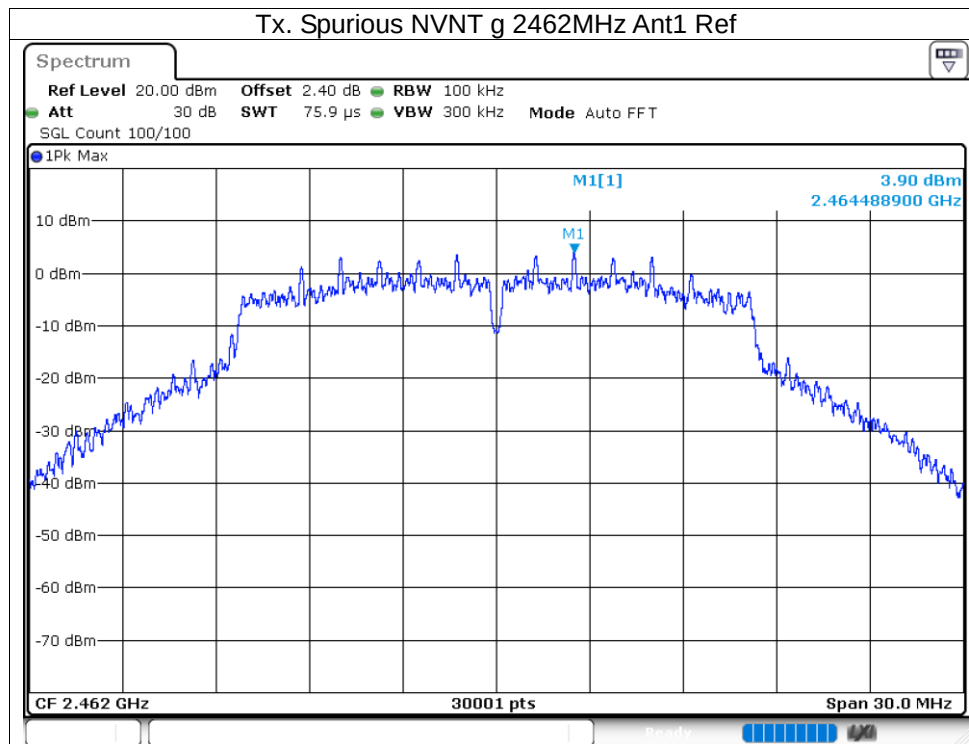


Tx. Spurious NVNT b 2462MHz Ant2 Emission

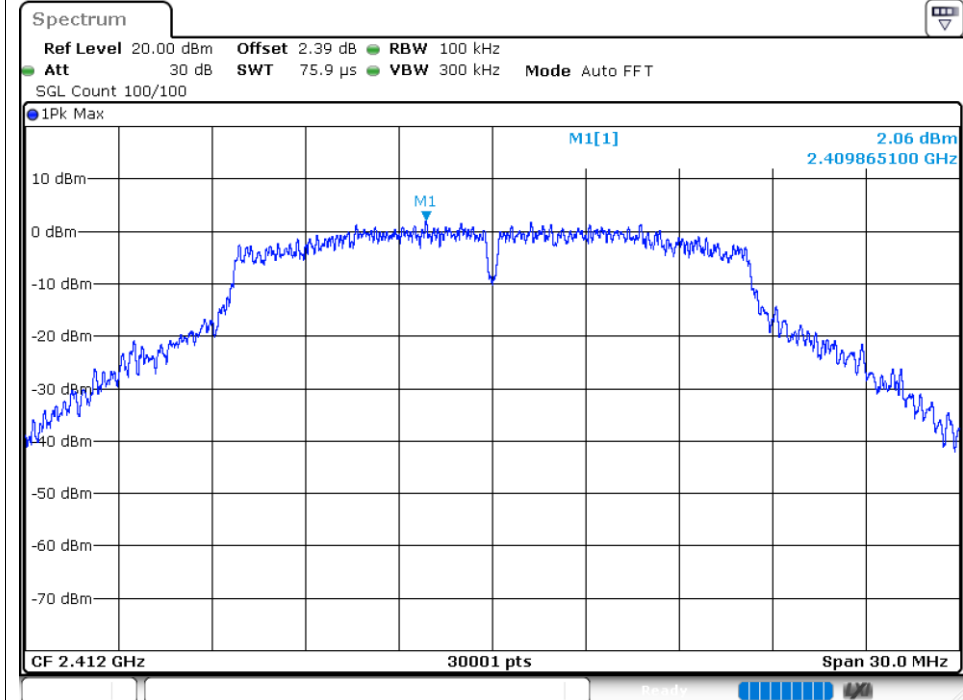




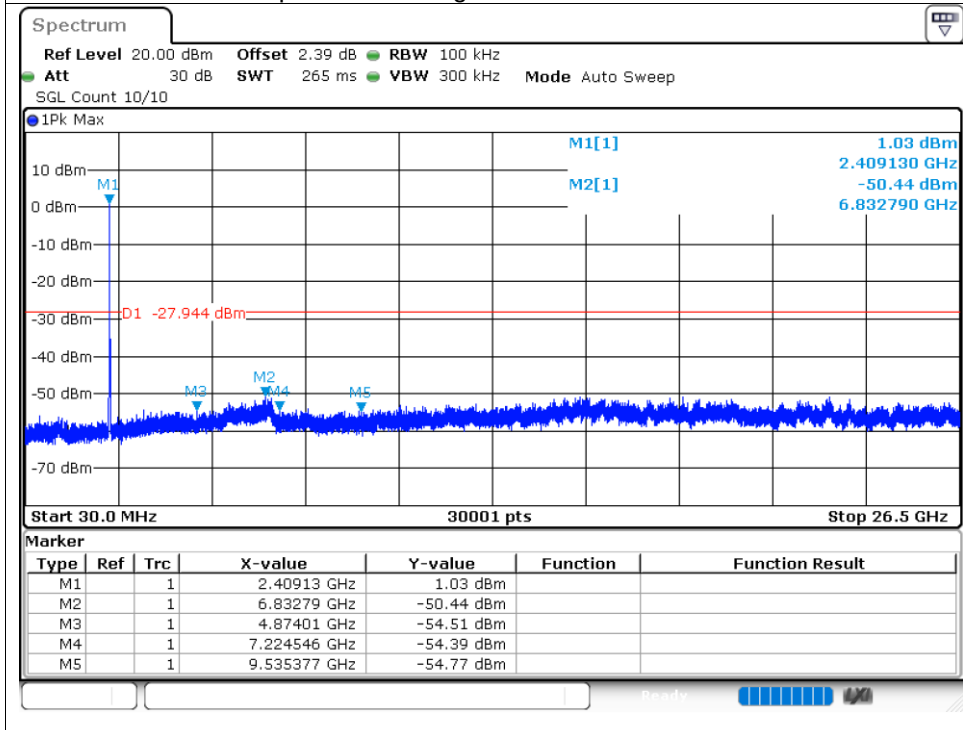


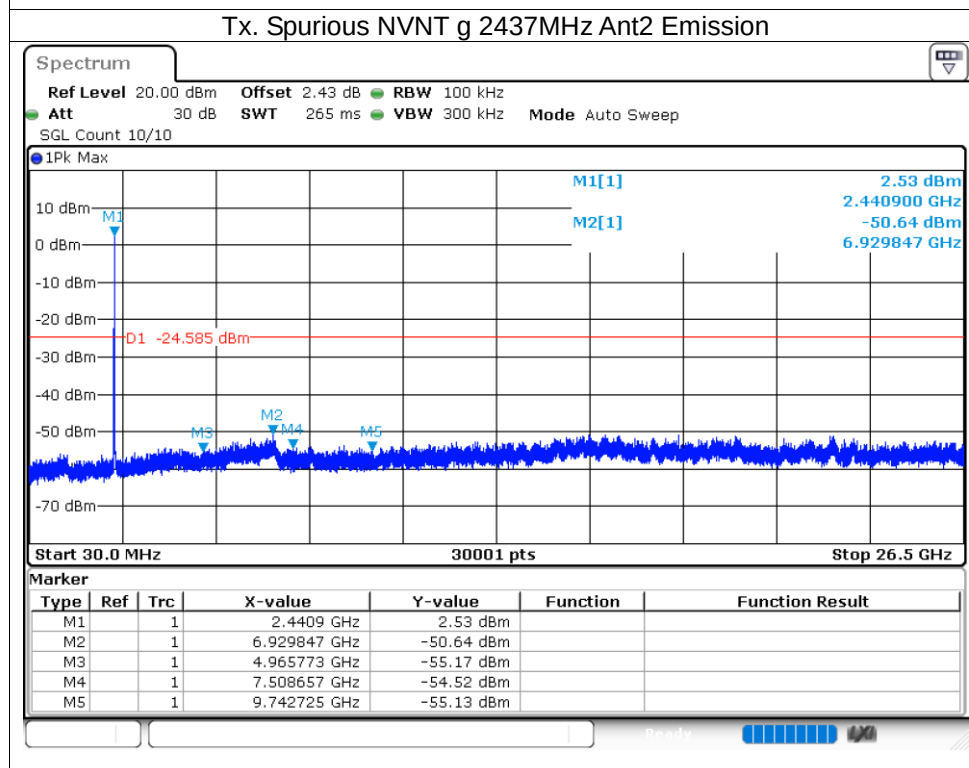
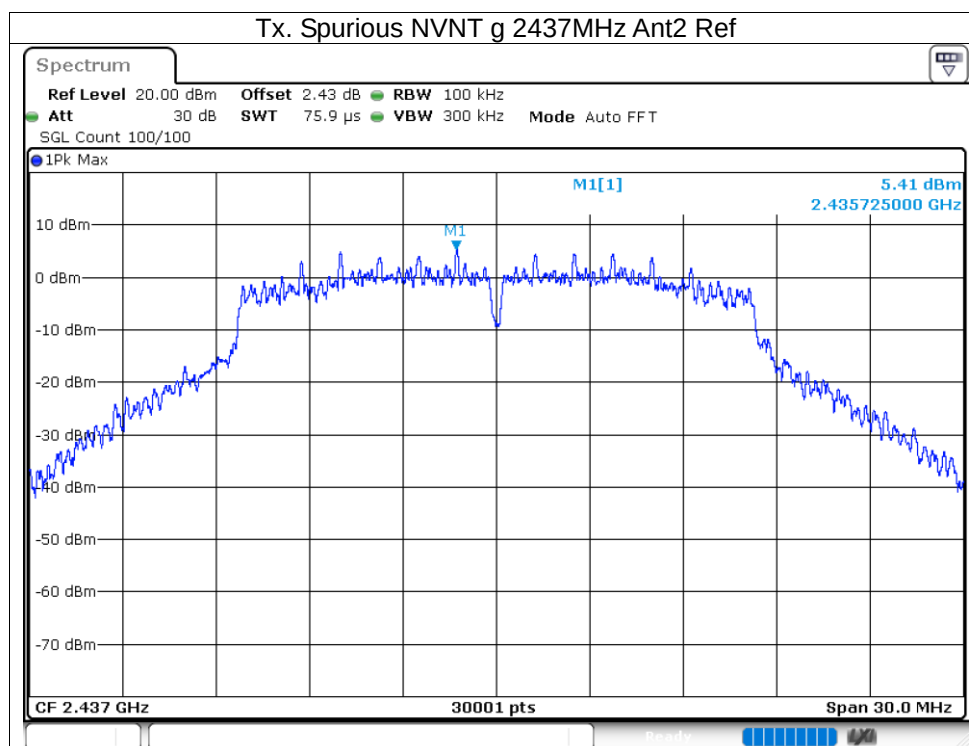


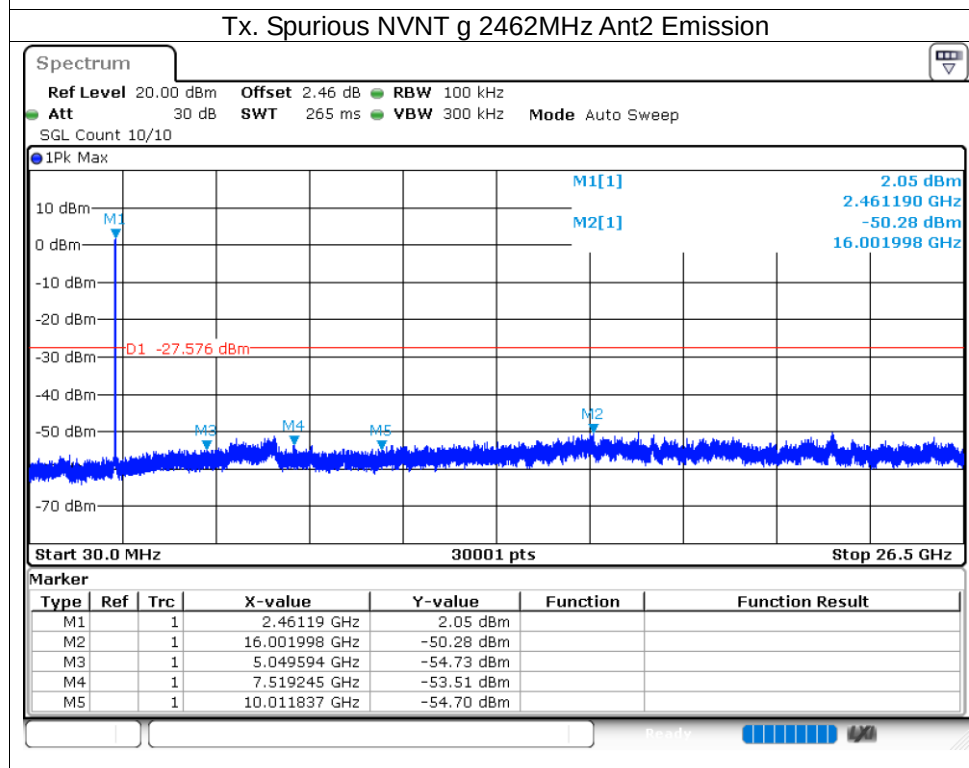
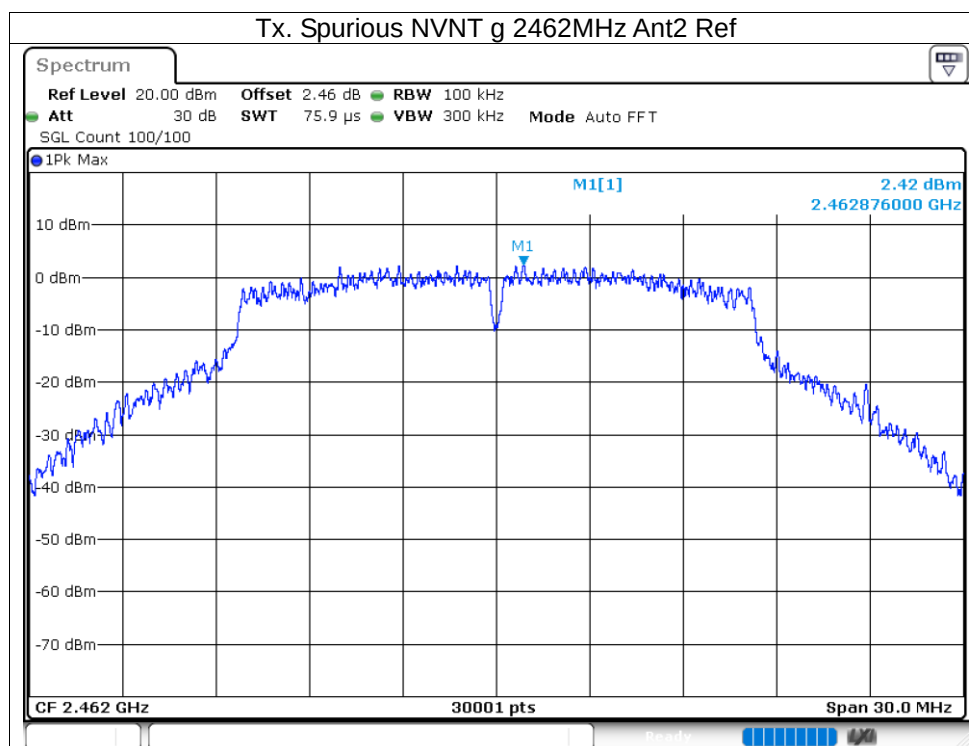
Tx. Spurious NVNT g 2412MHz Ant2 Ref



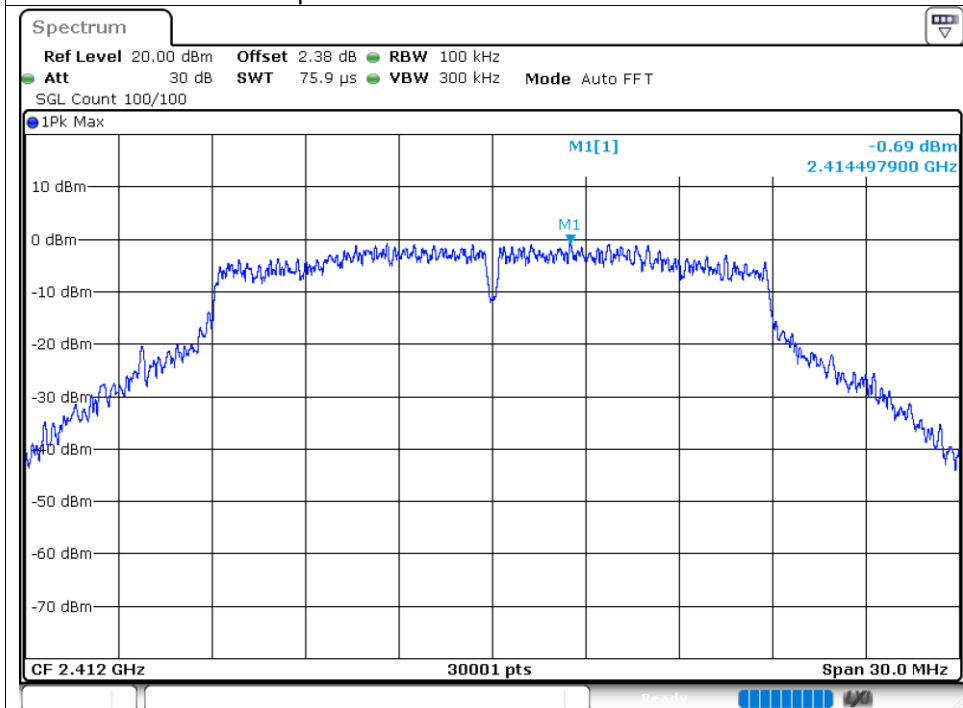
Tx. Spurious NVNT g 2412MHz Ant2 Emission



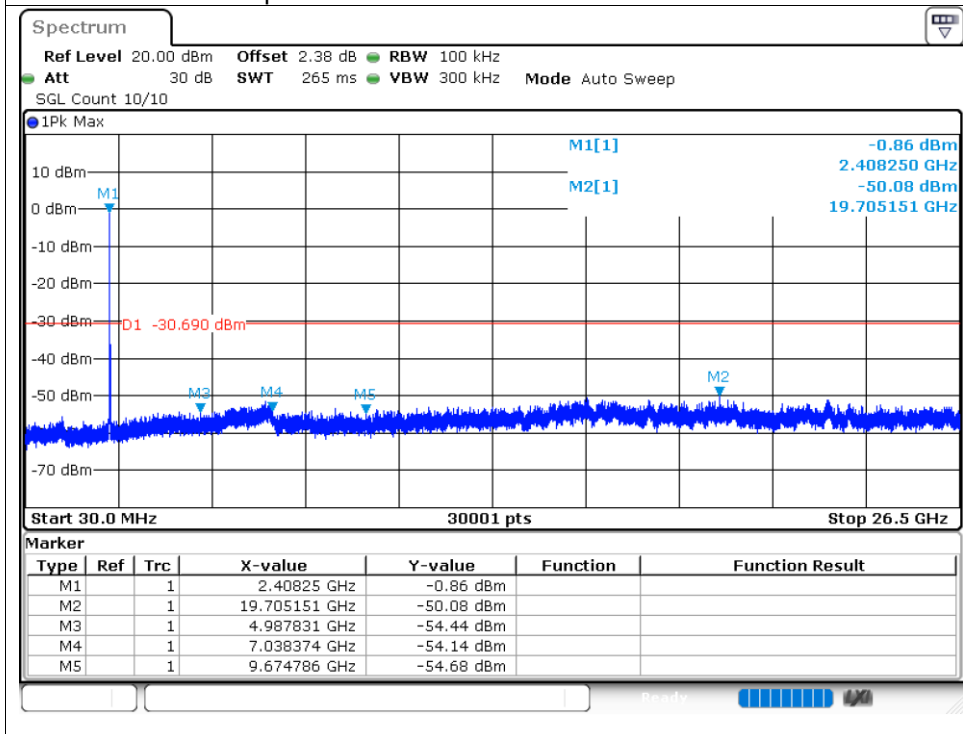




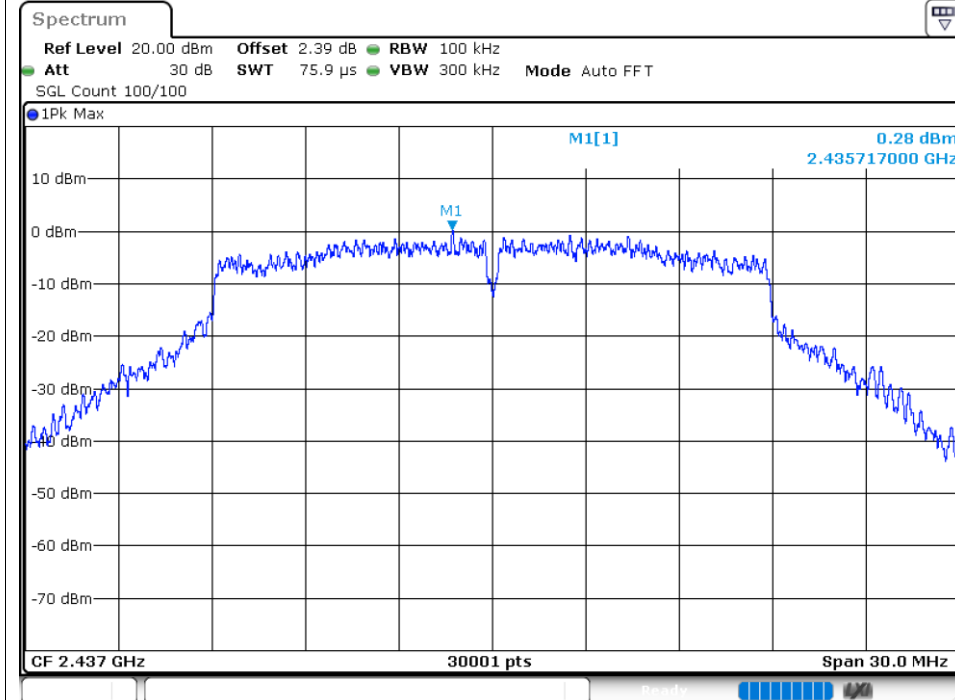
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



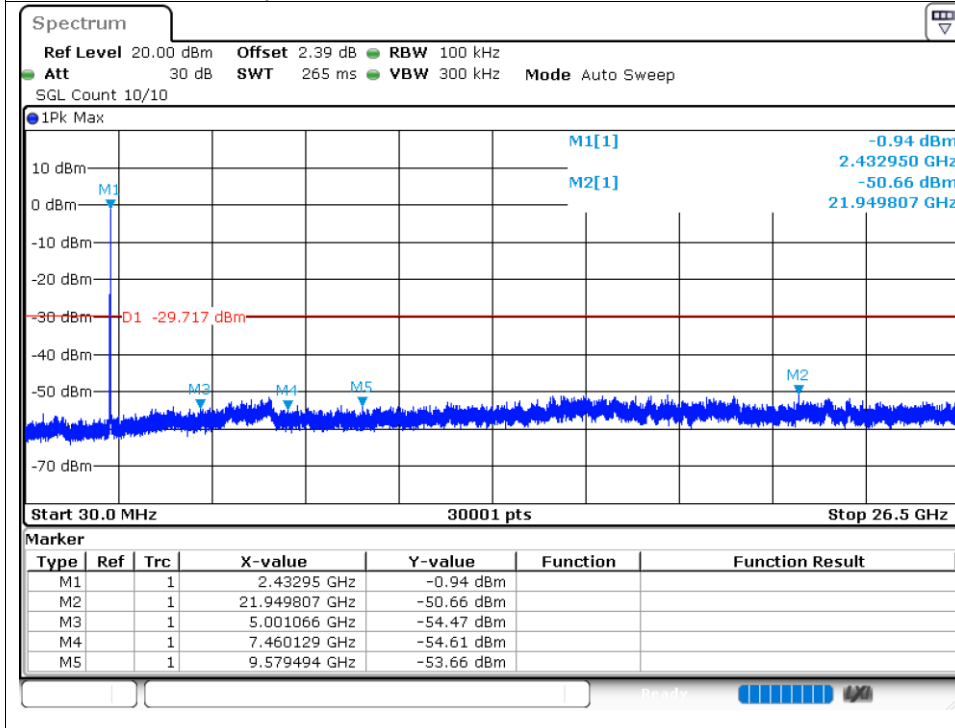
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



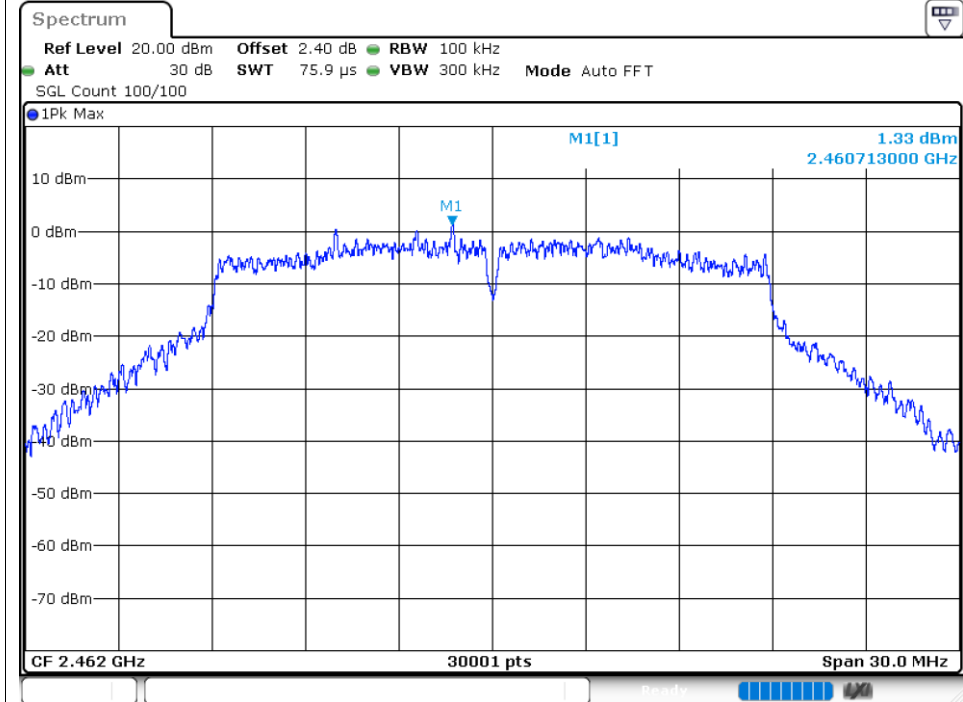
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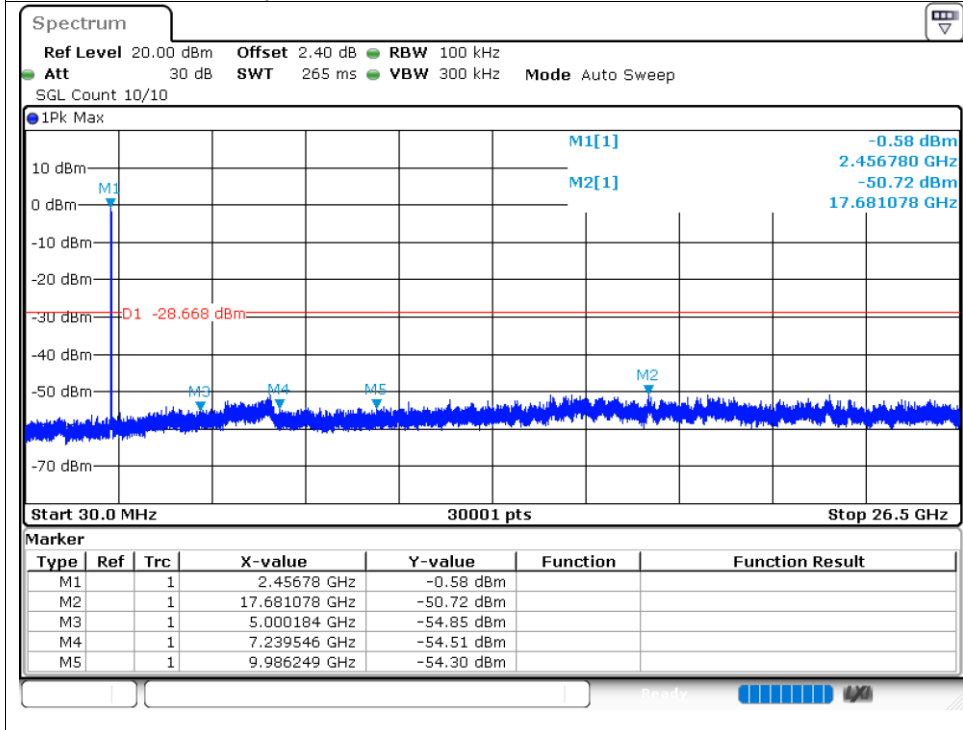
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



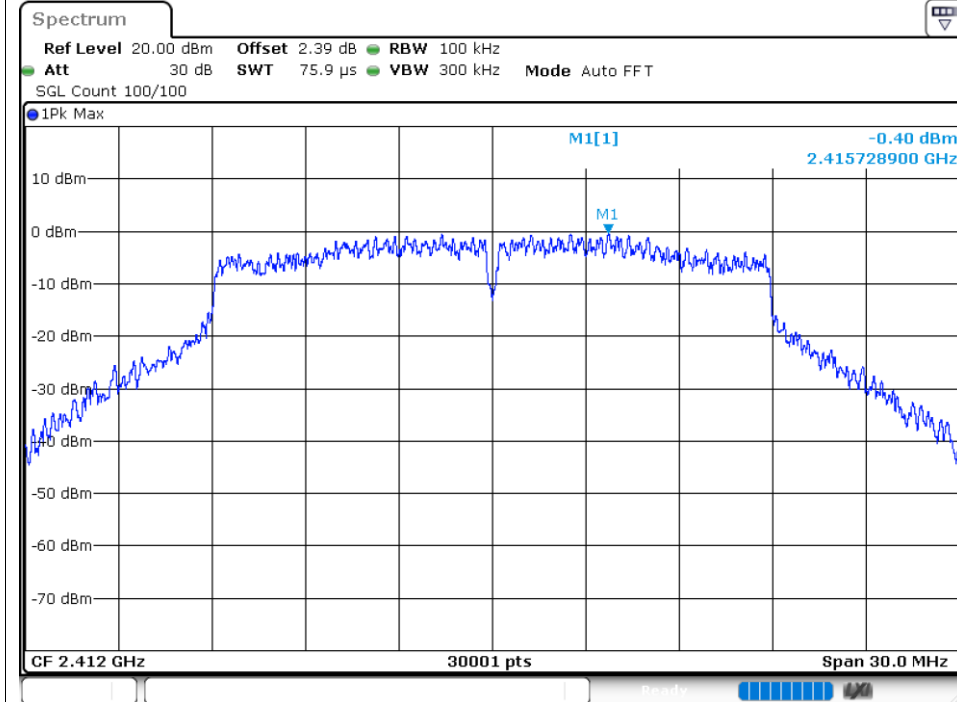
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



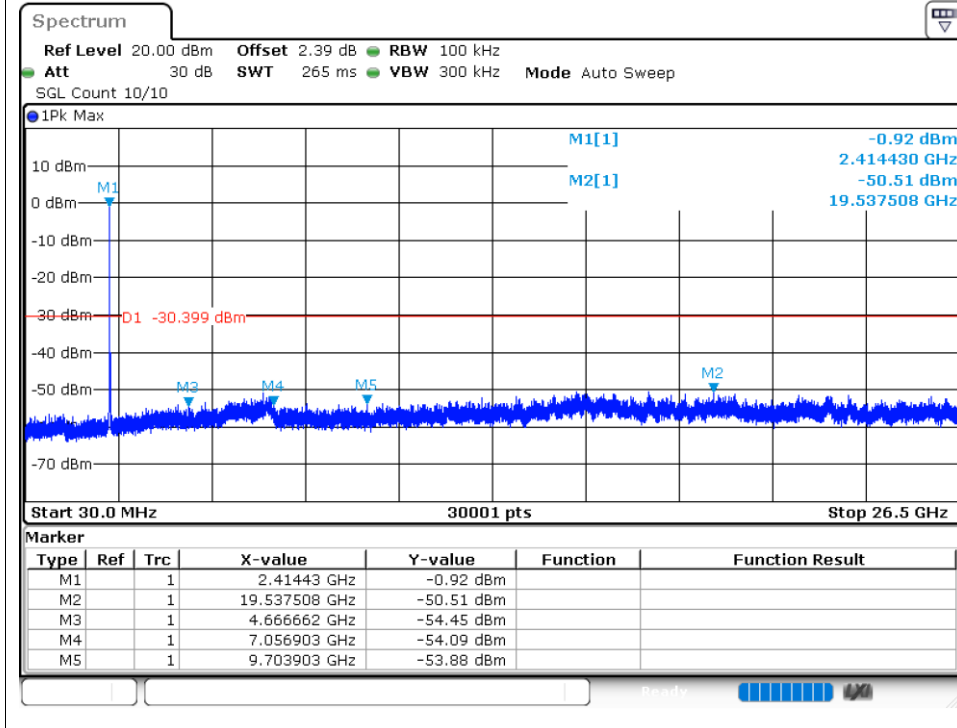
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



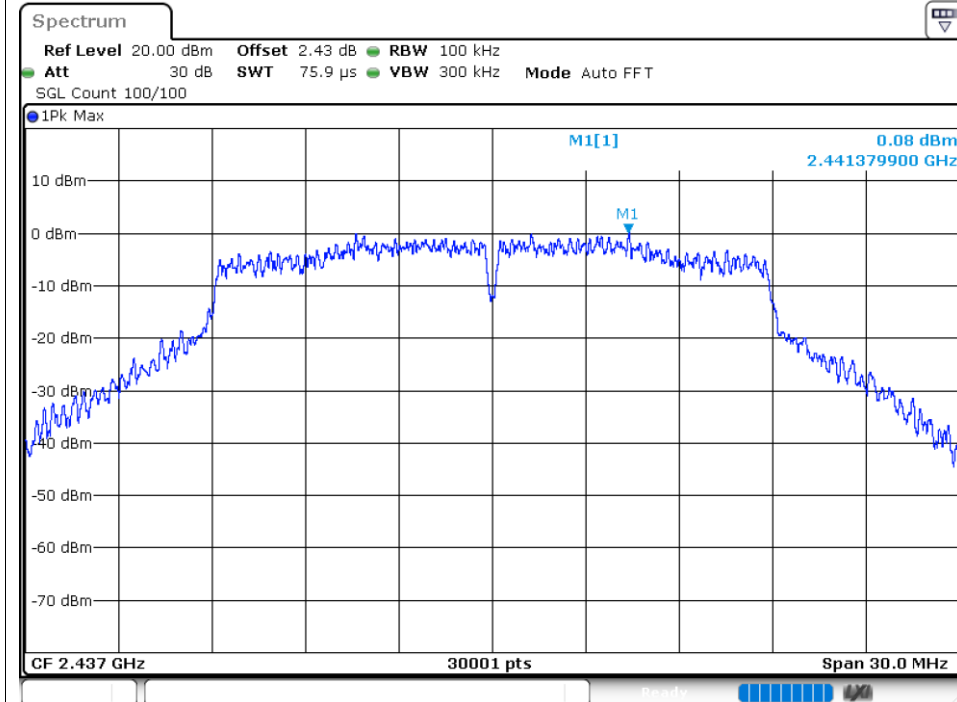
Tx. Spurious NVNT n20 2412MHz Ant2 Ref



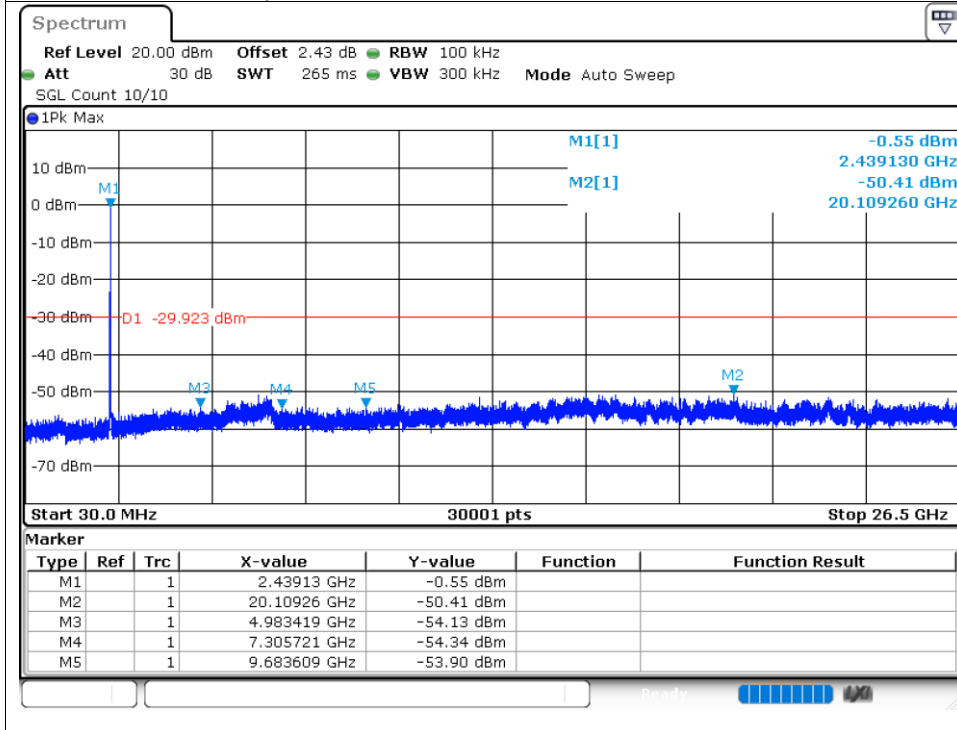
Tx. Spurious NVNT n20 2412MHz Ant2 Emission



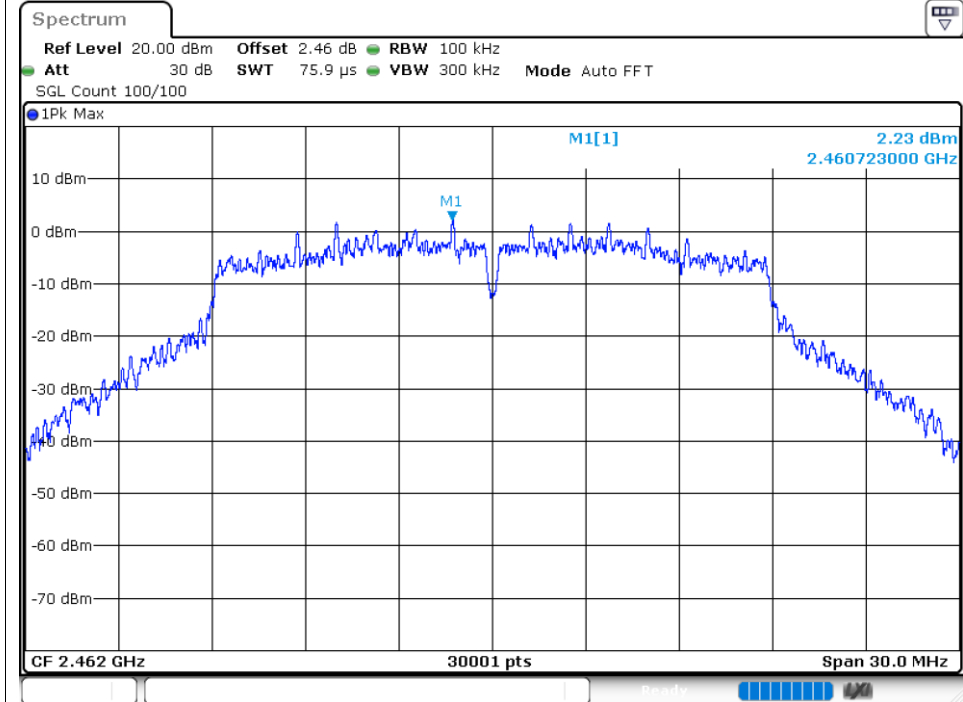
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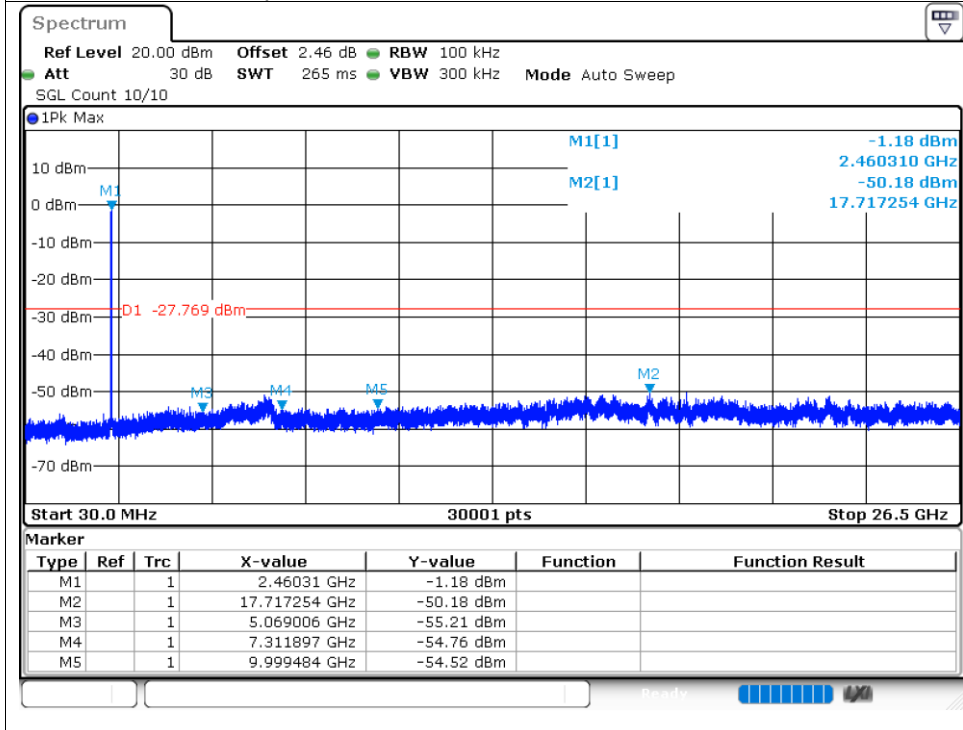
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



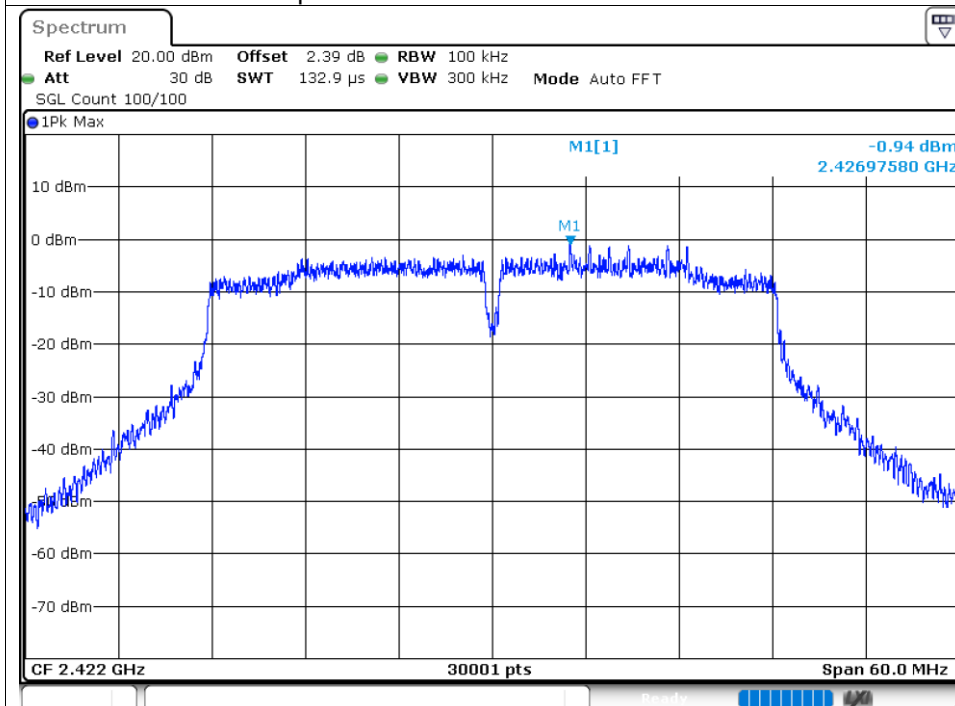
Tx. Spurious NVNT n20 2462MHz Ant2 Ref



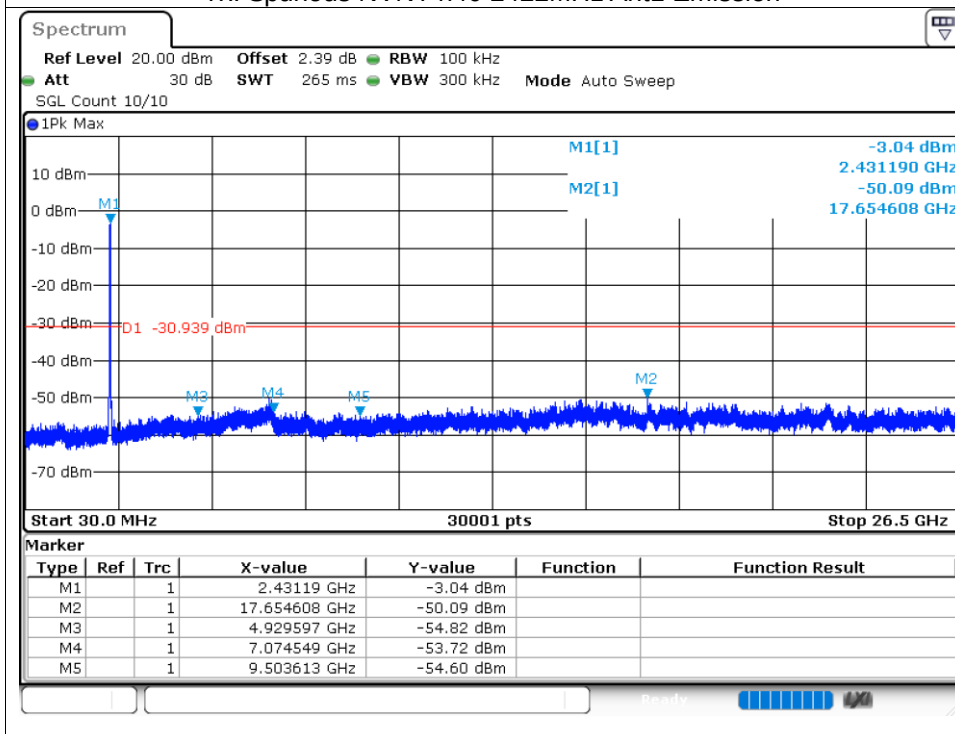
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



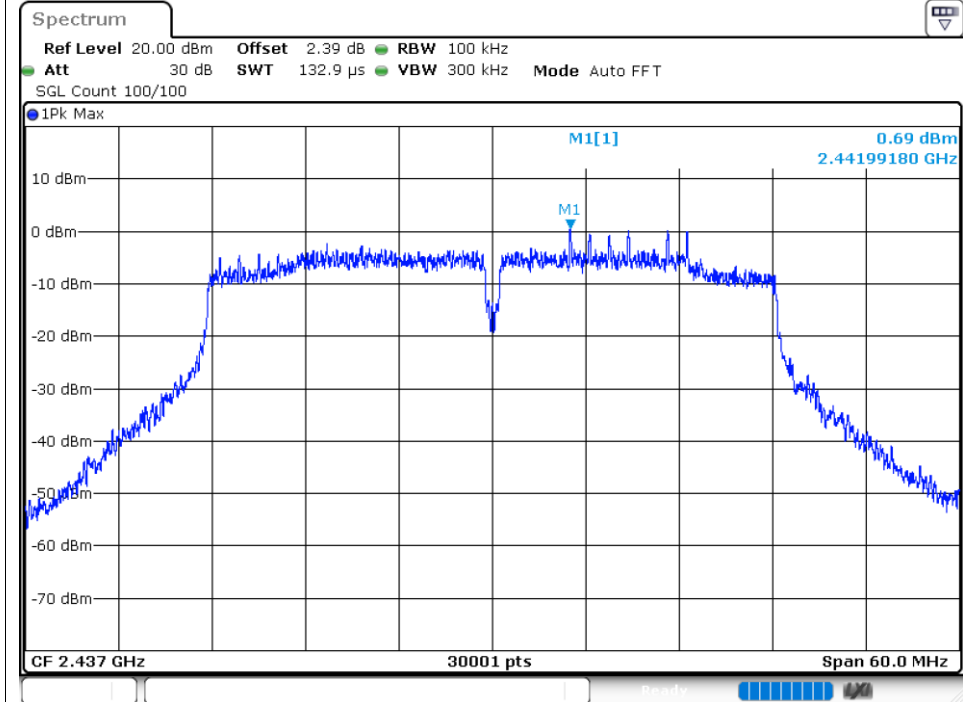
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



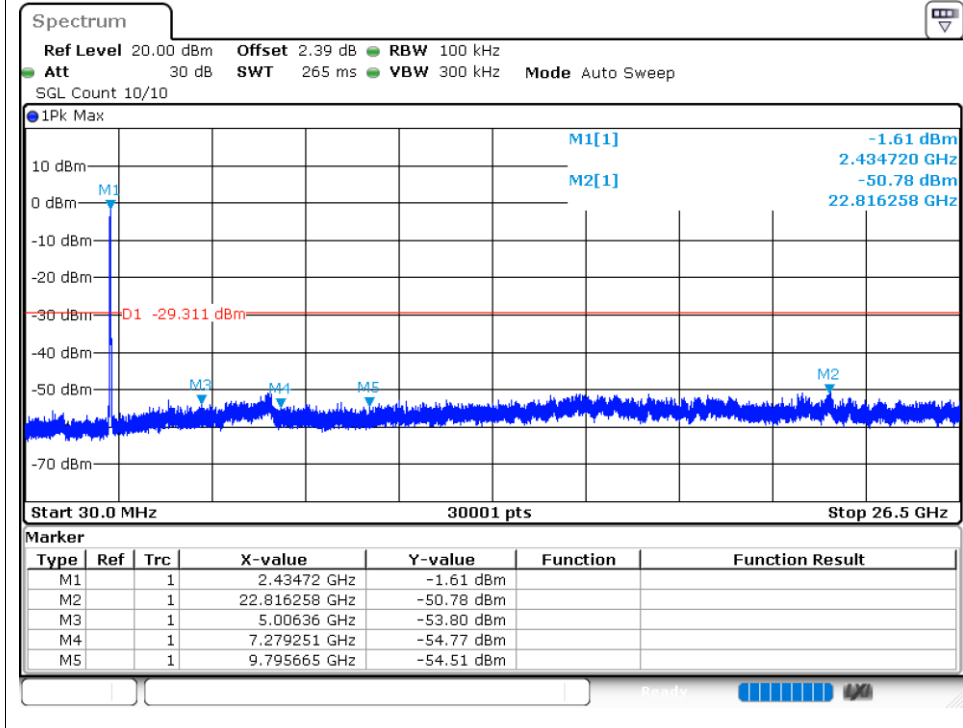
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



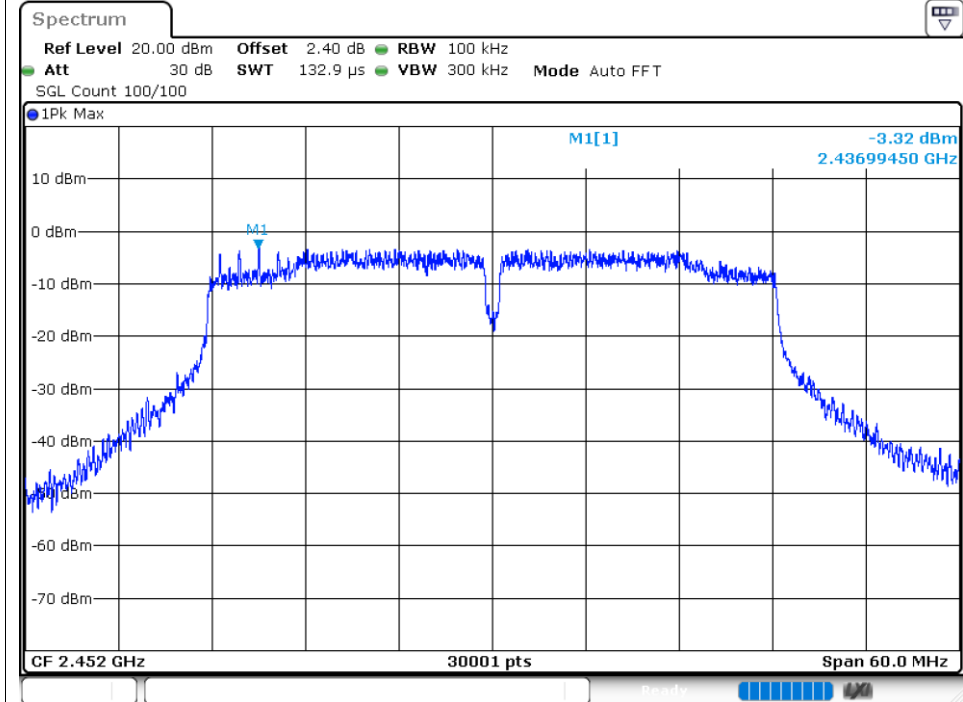
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



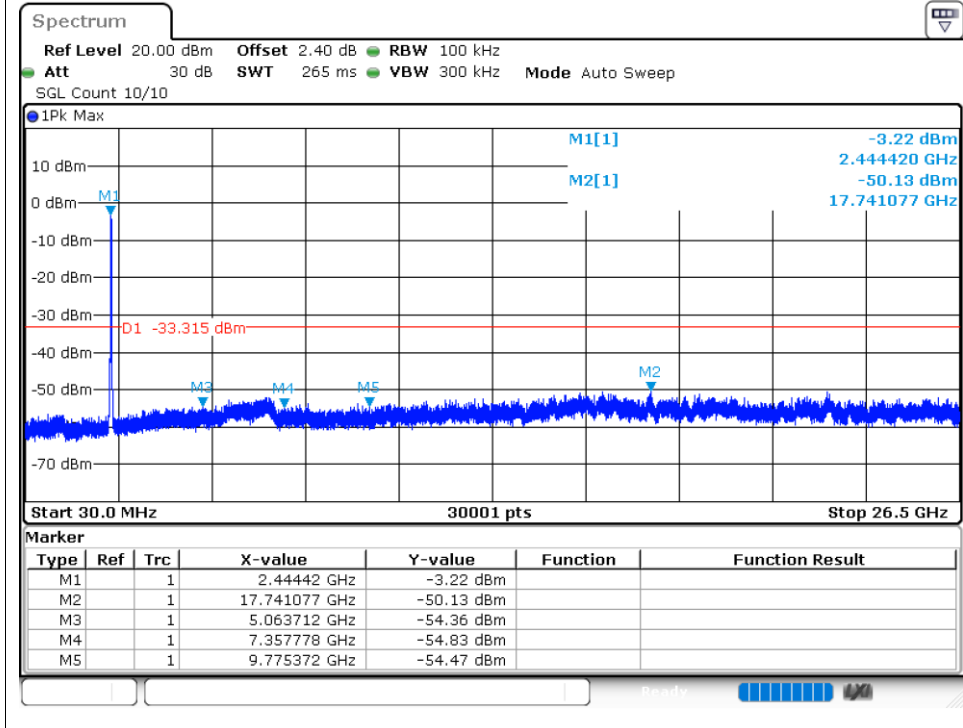
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



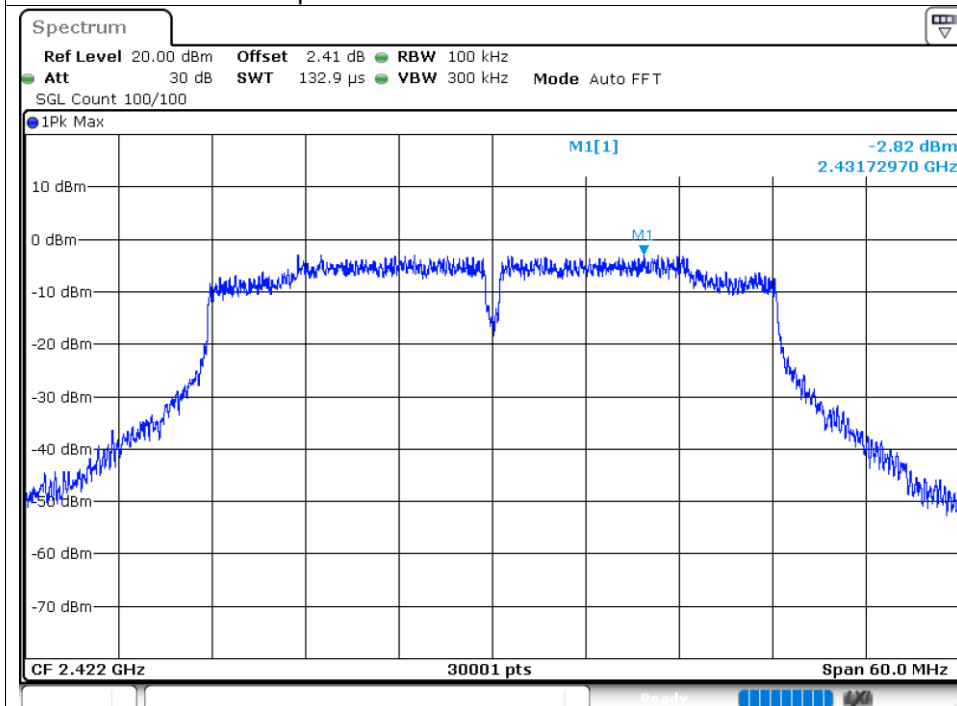
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



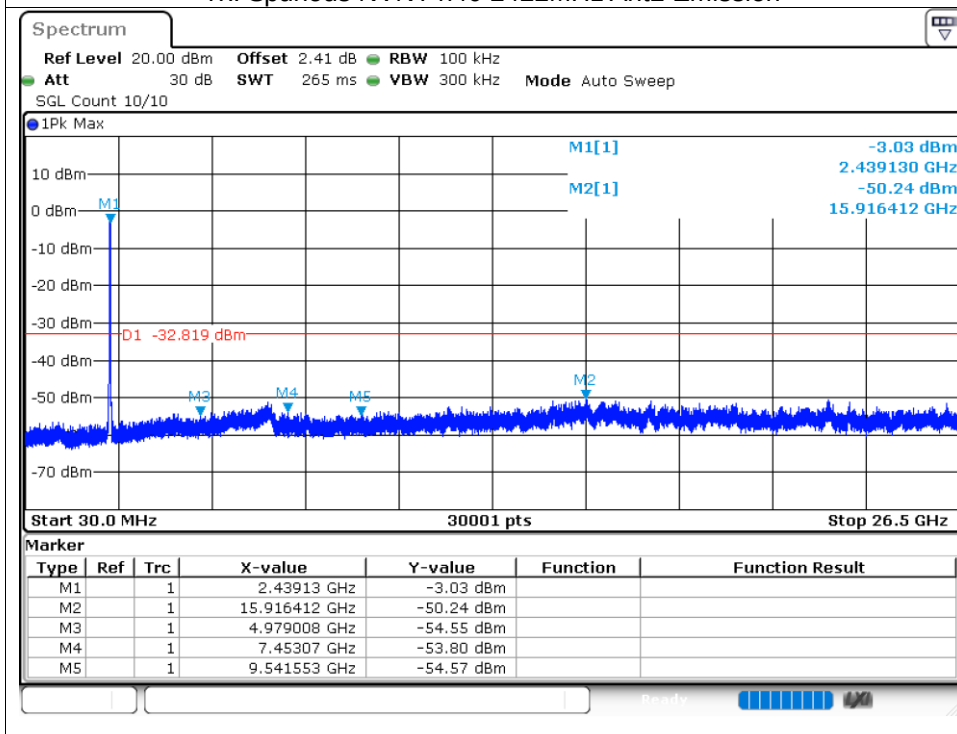
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



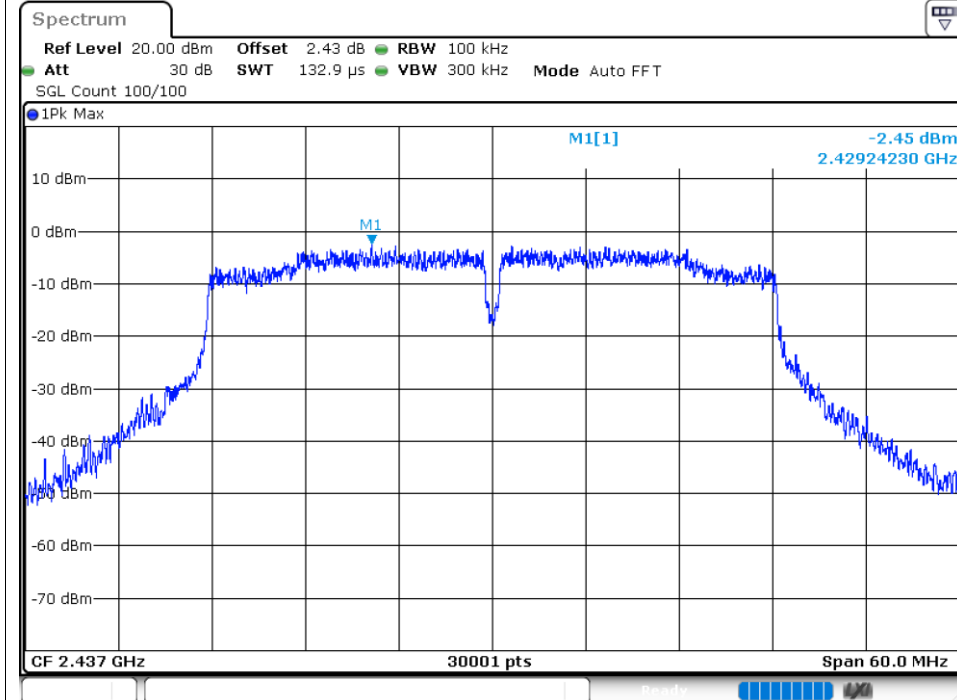
Tx. Spurious NVNT n40 2422MHz Ant2 Ref



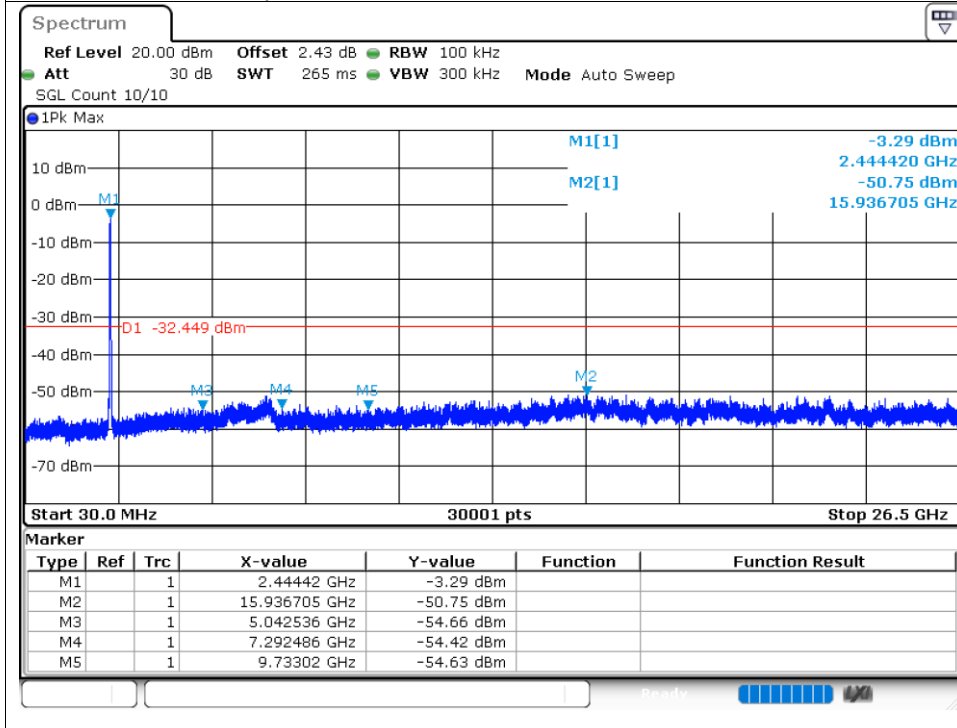
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



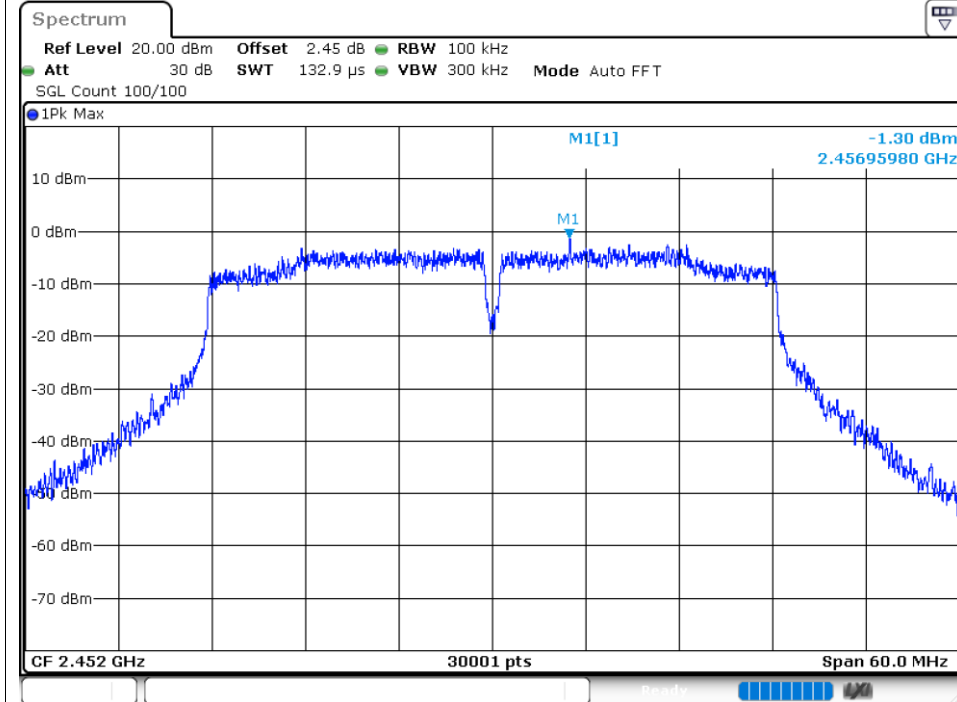
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



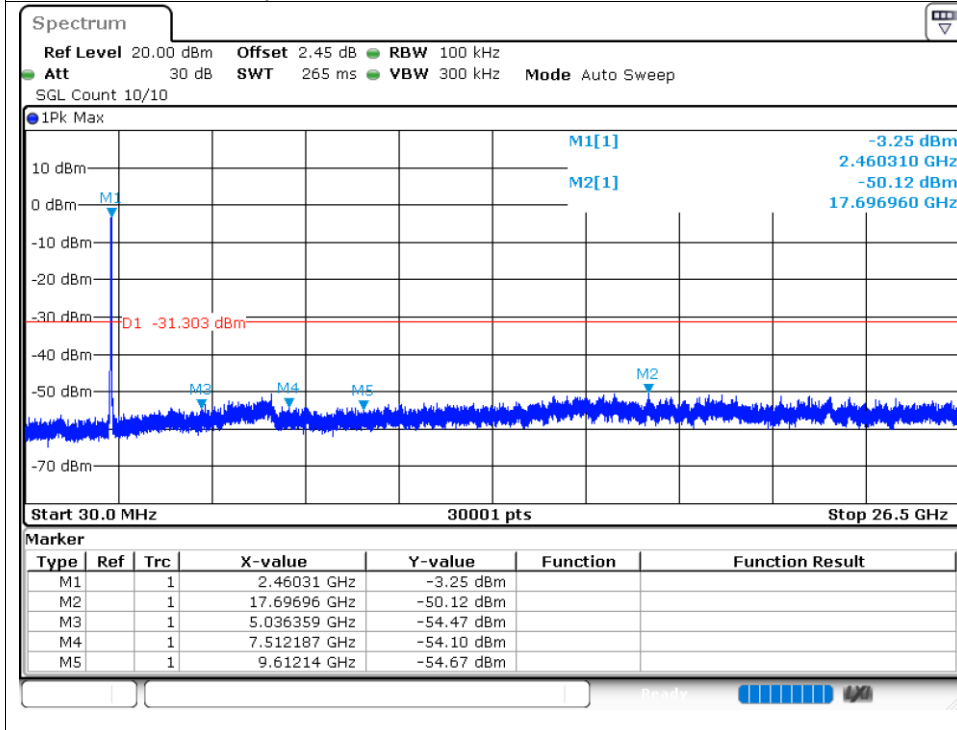
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



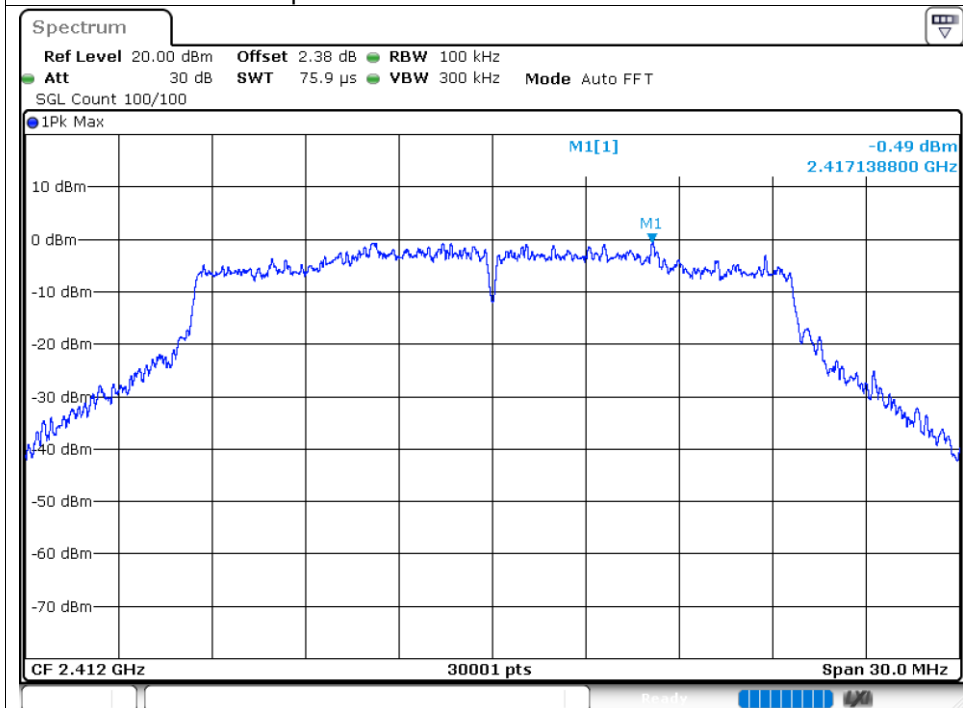
Tx. Spurious NVNT n40 2452MHz Ant2 Ref



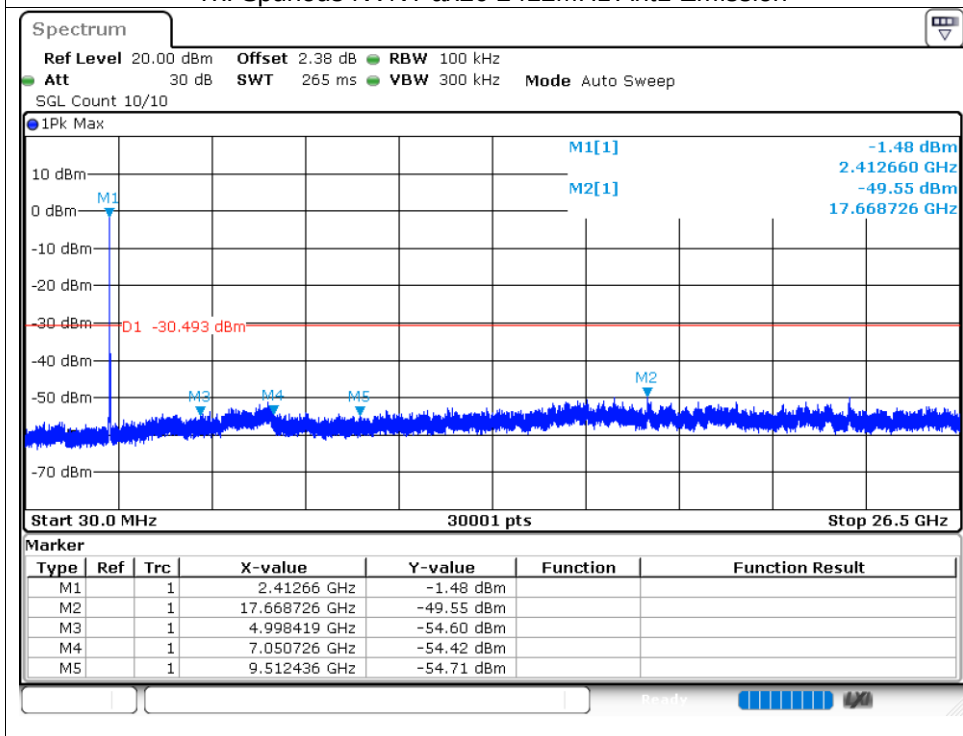
Tx. Spurious NVNT n40 2452MHz Ant2 Emission



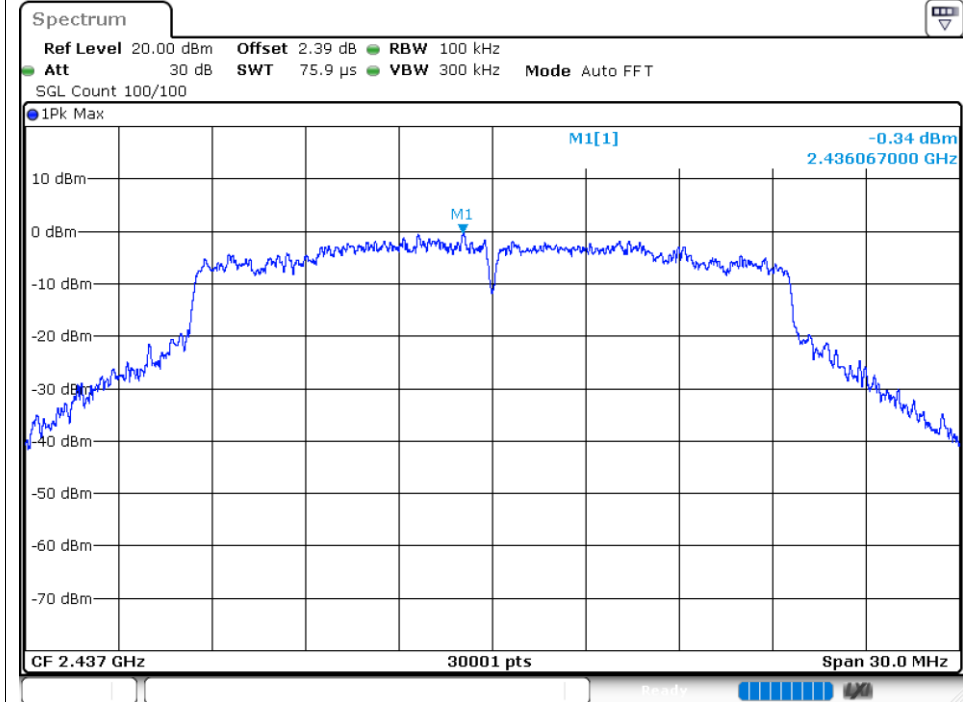
Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



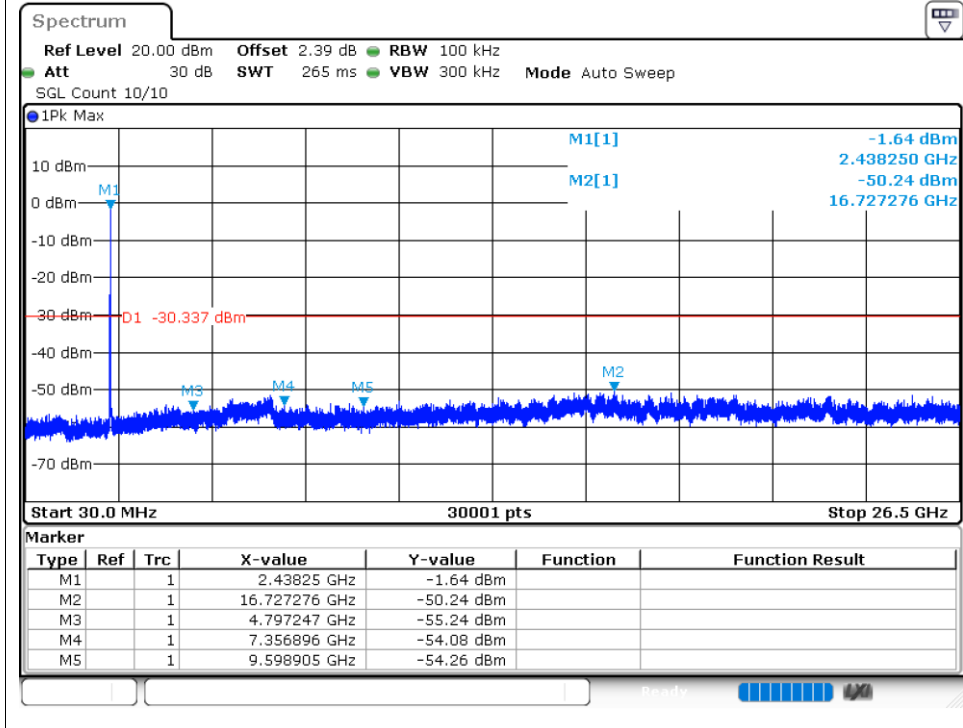
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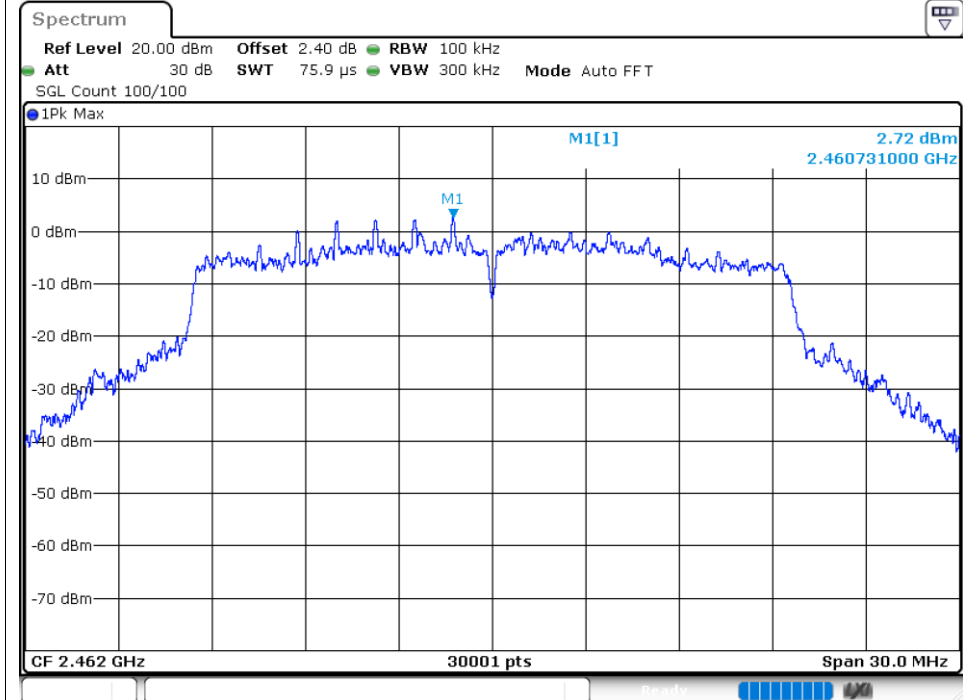
Tx. Spurious NVNT ax20 2437MHz Ant1 Ref



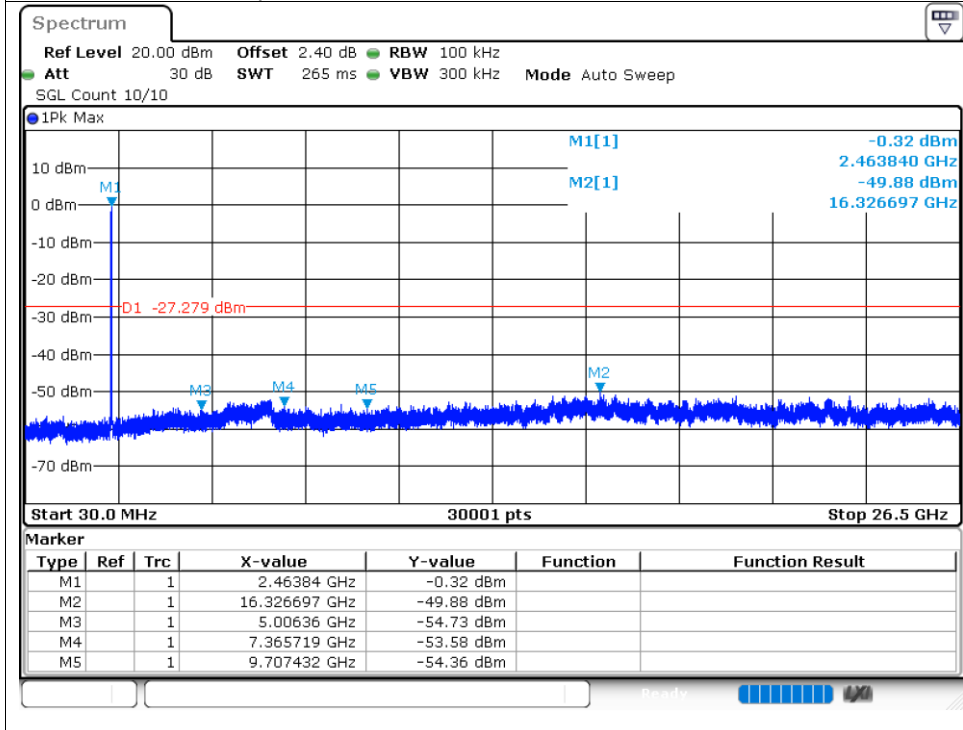
Tx. Spurious NVNT ax20 2437MHz Ant1 Emission



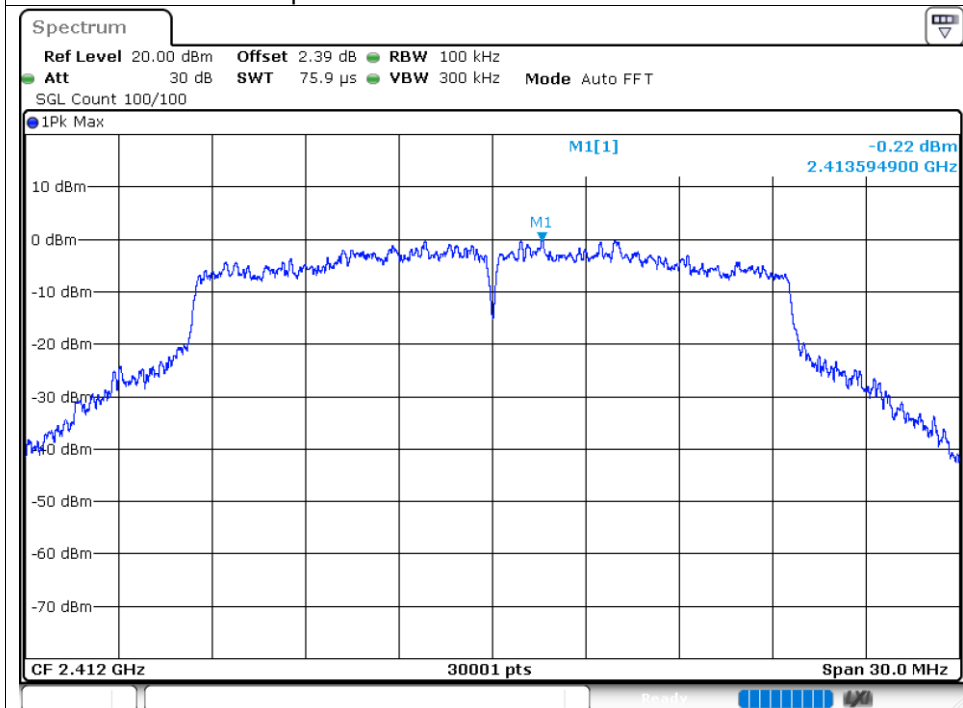
Tx. Spurious NVNT ax20 2462MHz Ant1 Ref



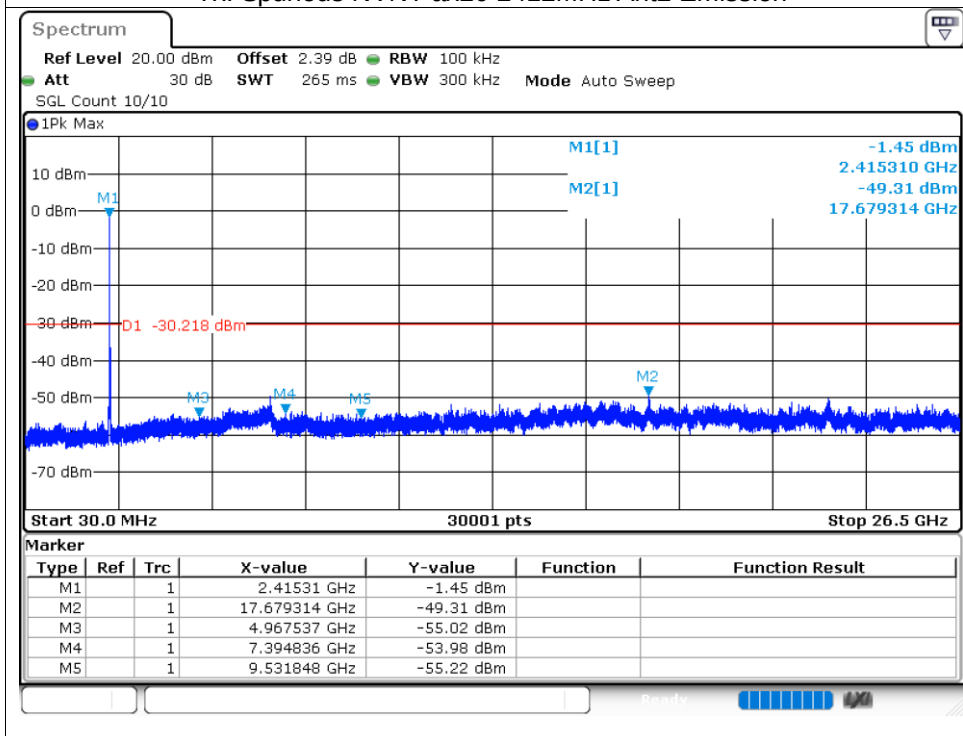
Tx. Spurious NVNT ax20 2462MHz Ant1 Emission



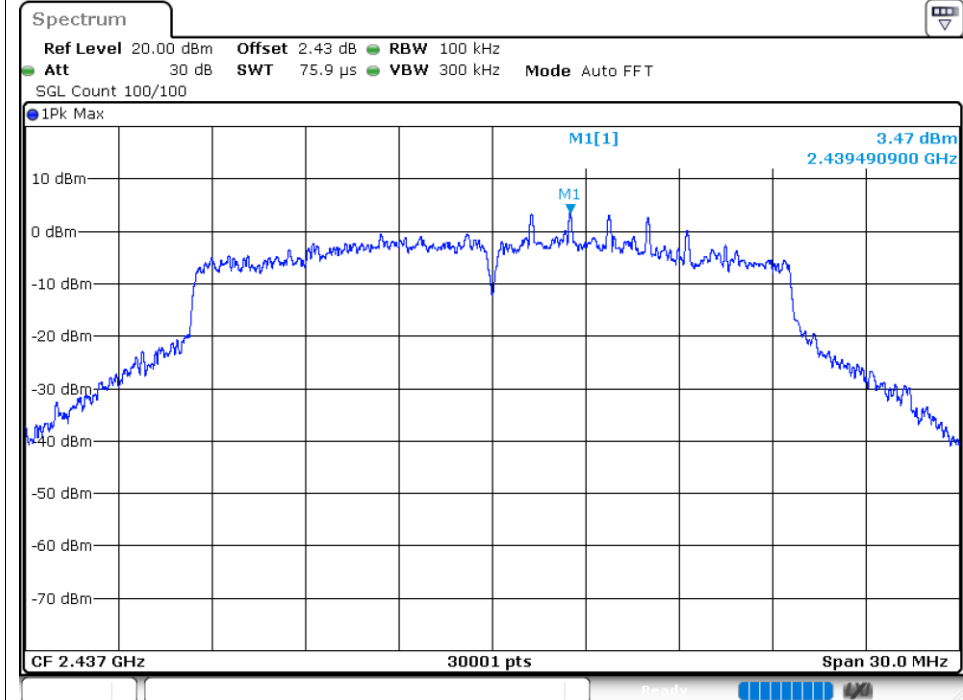
Tx. Spurious NVNT ax20 2412MHz Ant2 Ref



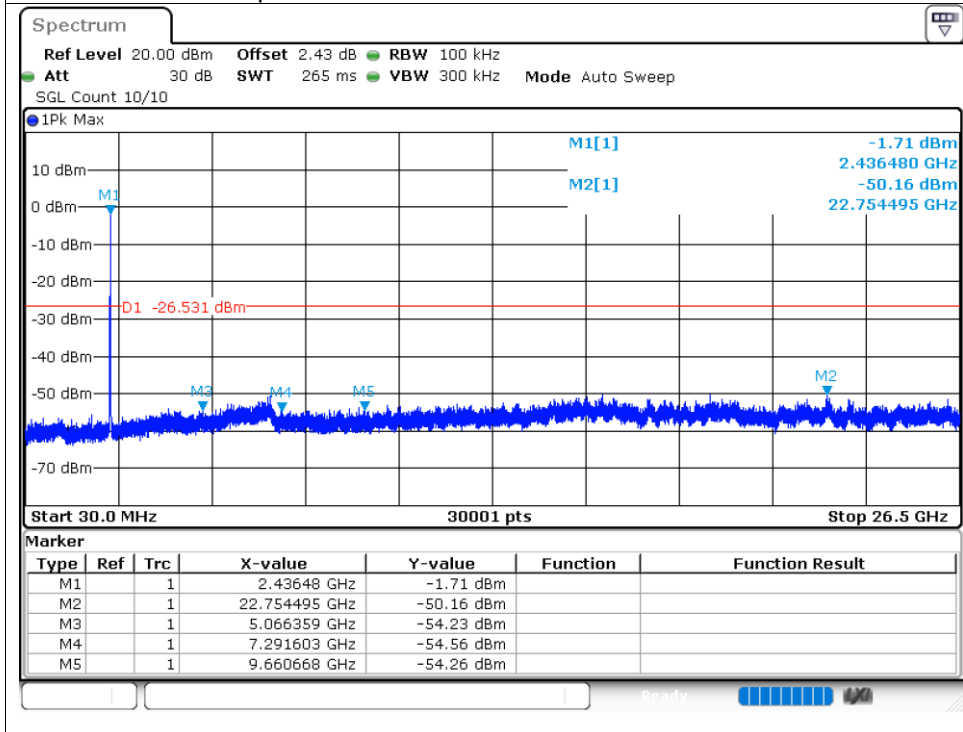
Tx. Spurious NVNT ax20 2412MHz Ant2 Emission



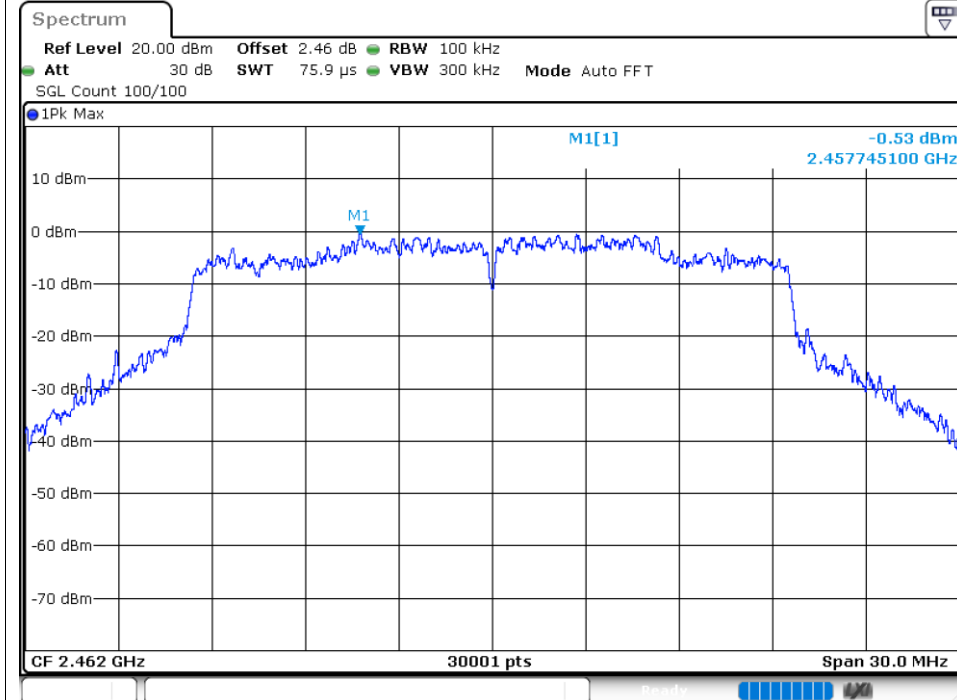
Tx. Spurious NVNT ax20 2437MHz Ant2 Ref



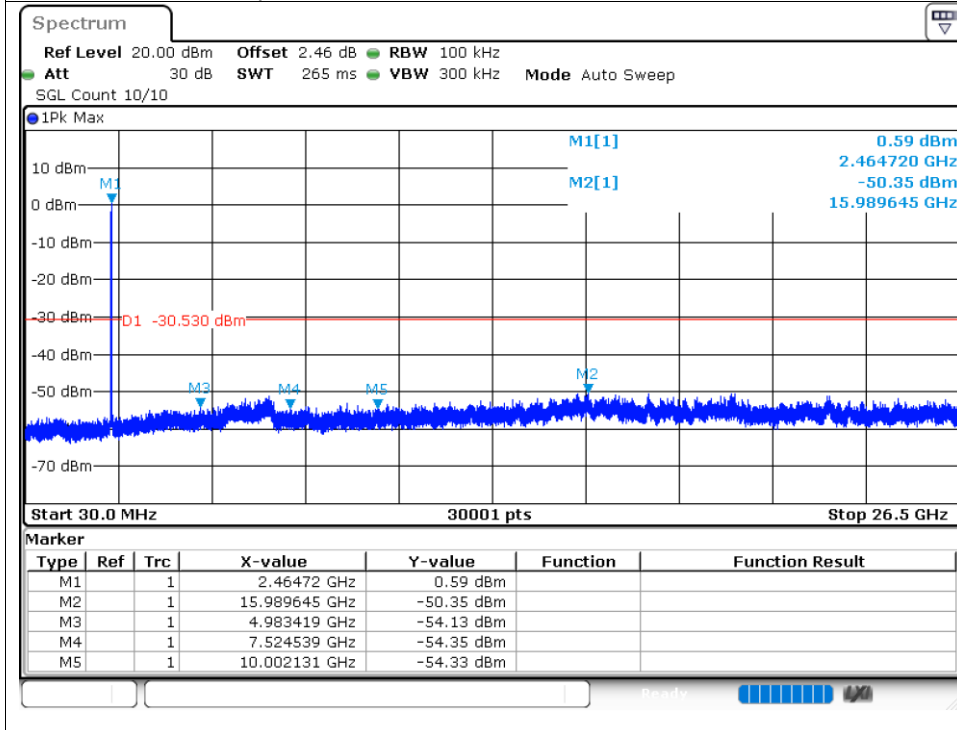
Tx. Spurious NVNT ax20 2437MHz Ant2 Emission



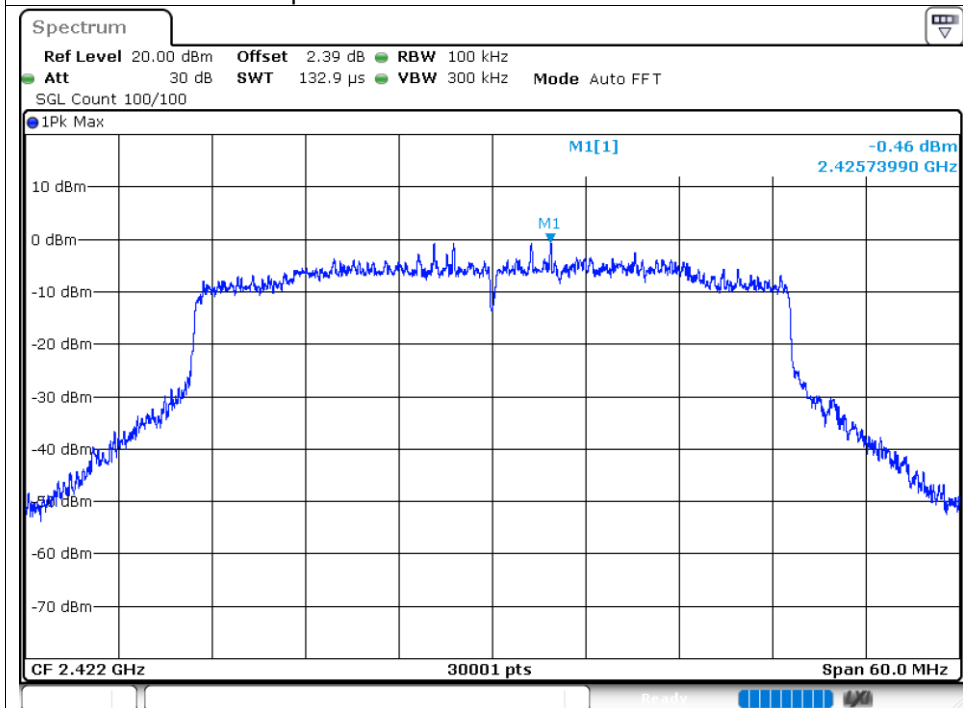
Tx. Spurious NVNT ax20 2462MHz Ant2 Ref



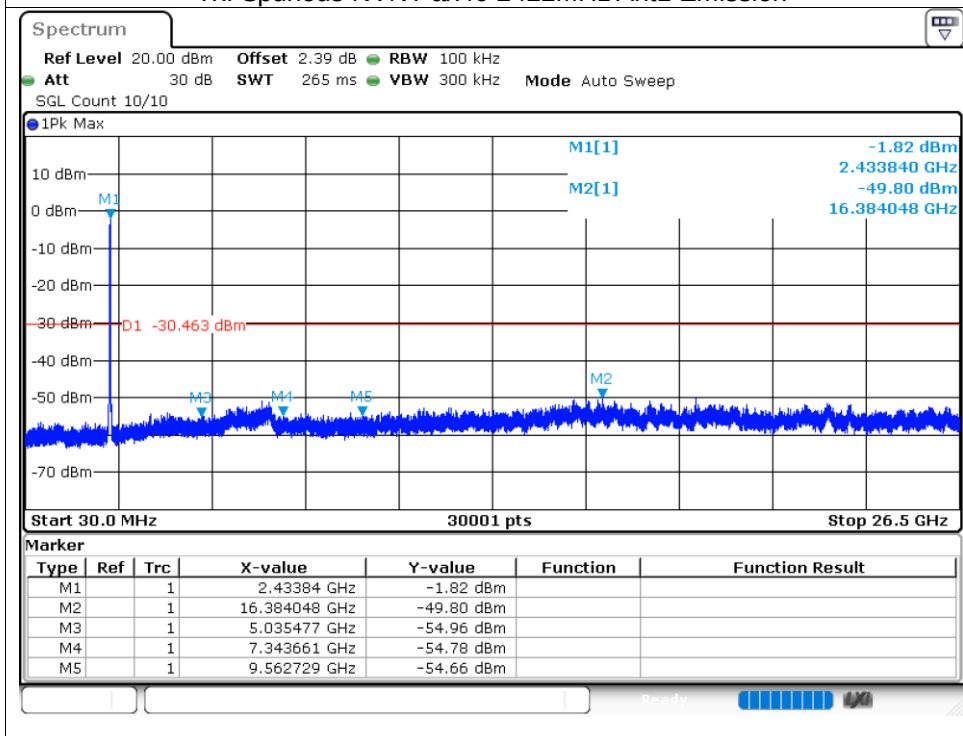
Tx. Spurious NVNT ax20 2462MHz Ant2 Emission



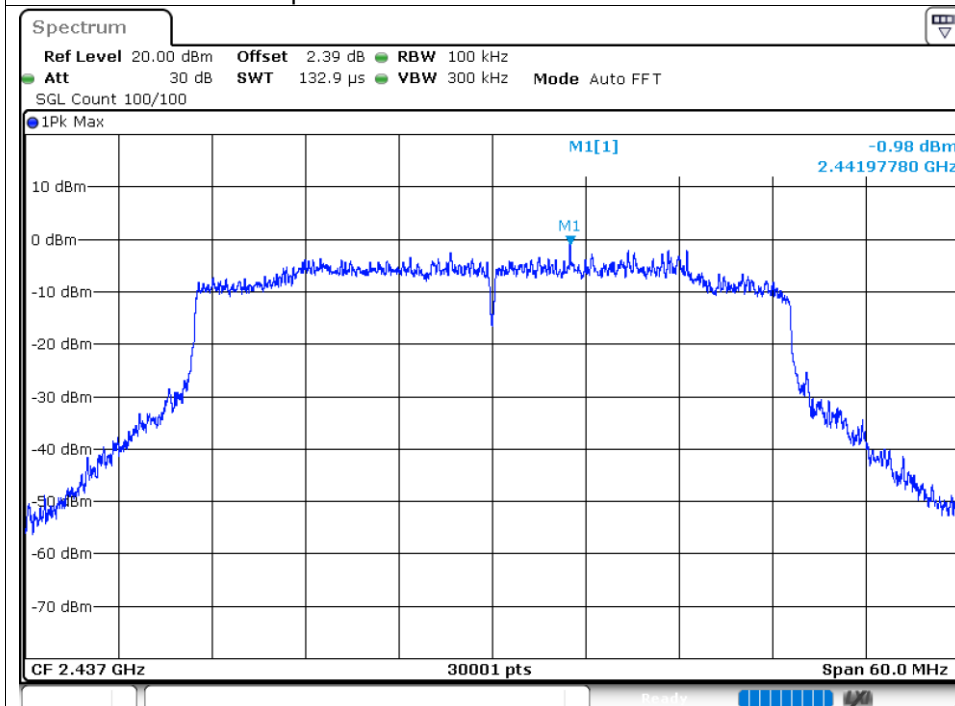
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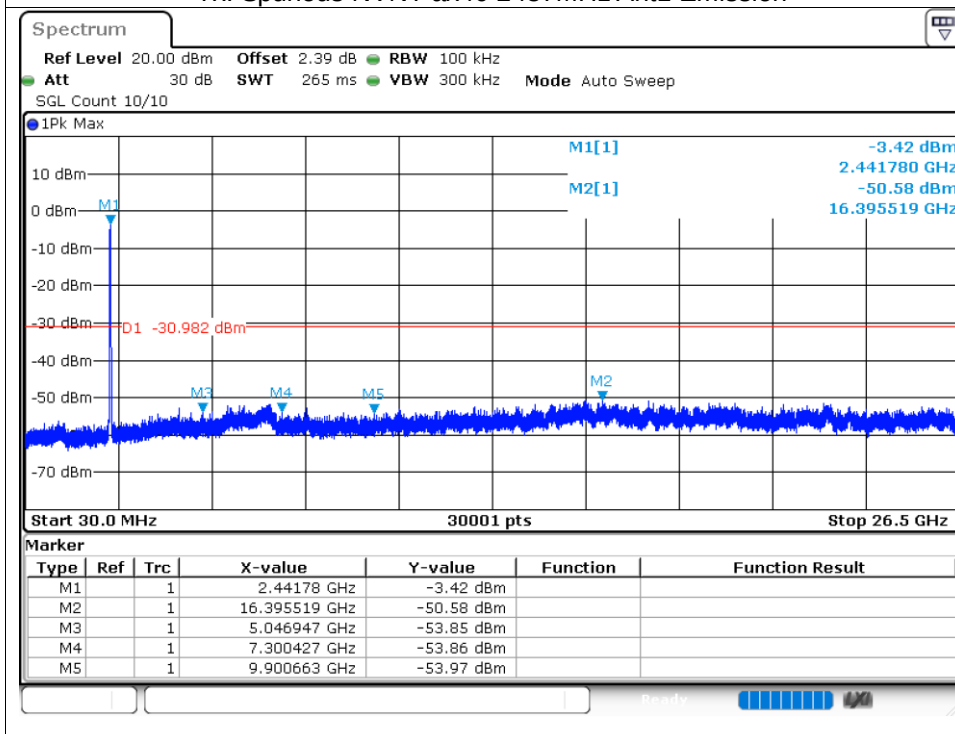
Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



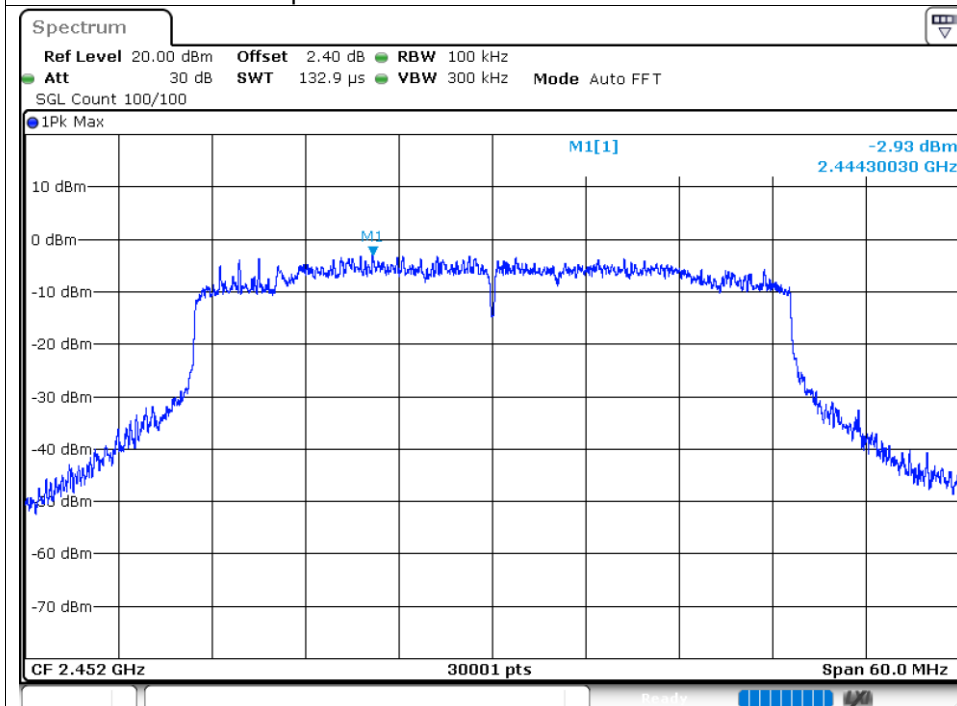
Tx. Spurious NVNT ax40 2437MHz Ant1 Ref



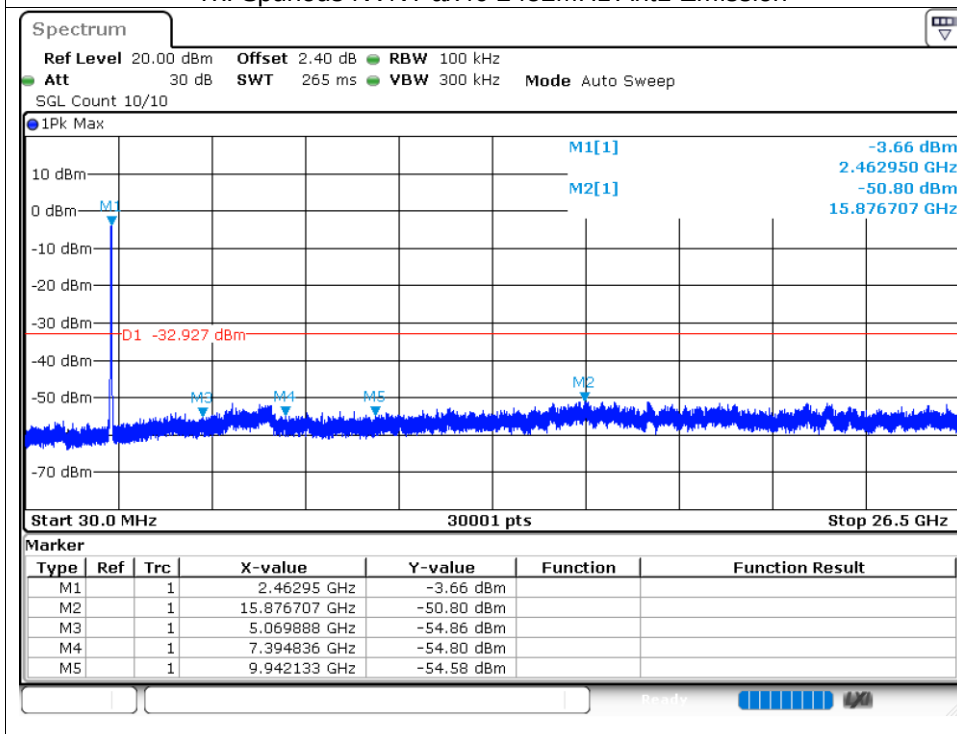
Tx. Spurious NVNT ax40 2437MHz Ant1 Emission



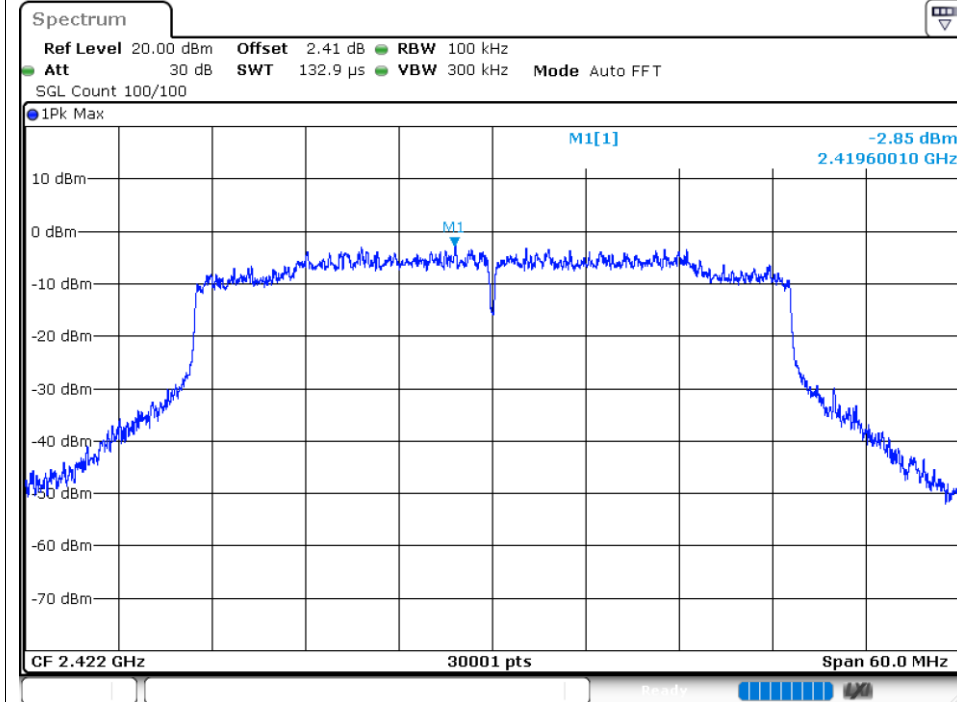
Tx. Spurious NVNT ax40 2452MHz Ant1 Ref



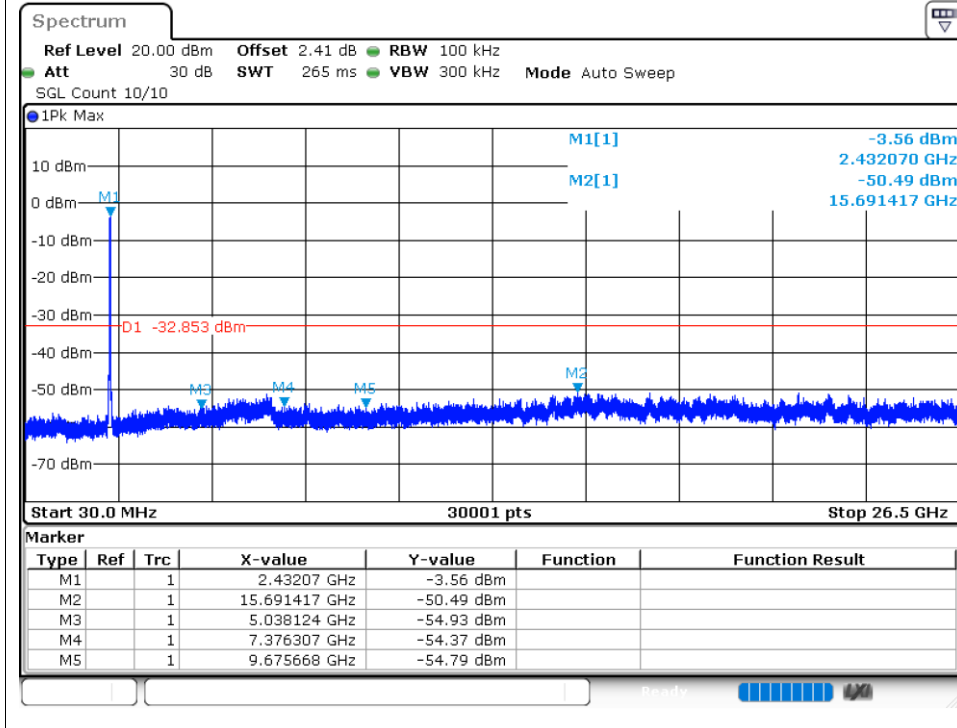
Tx. Spurious NVNT ax40 2452MHz Ant1 Emission



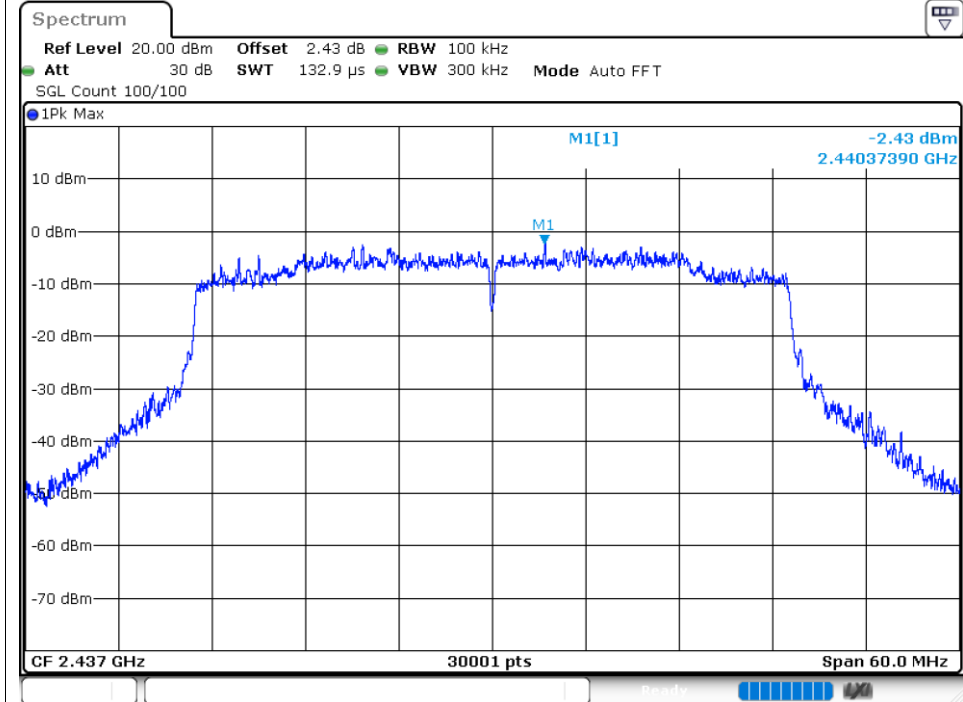
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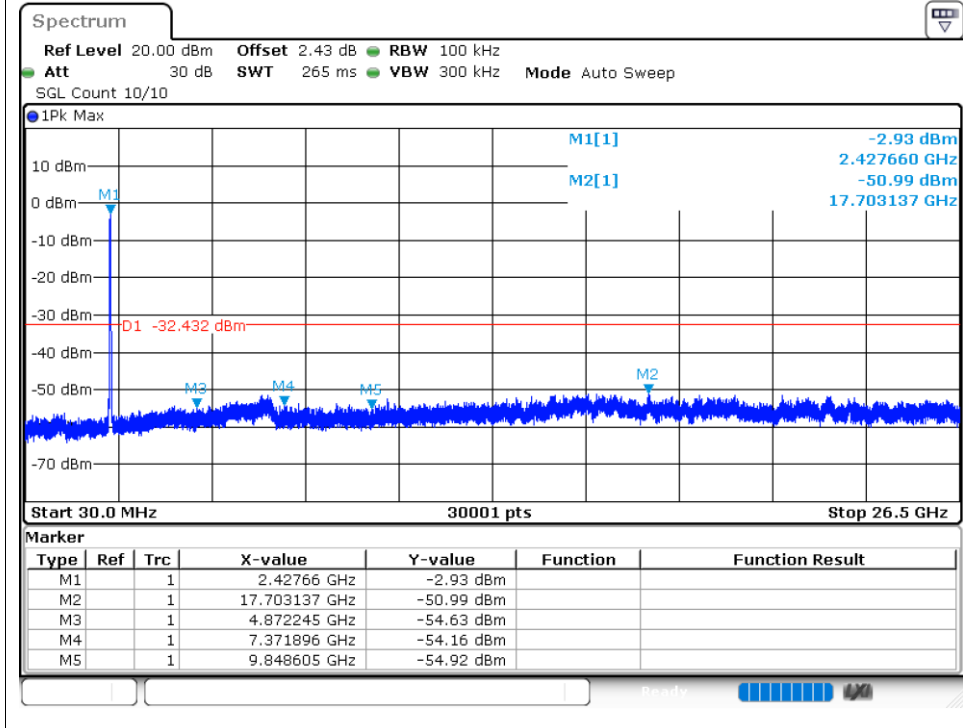
Tx. Spurious NVNT ax40 2422MHz Ant2 Emission



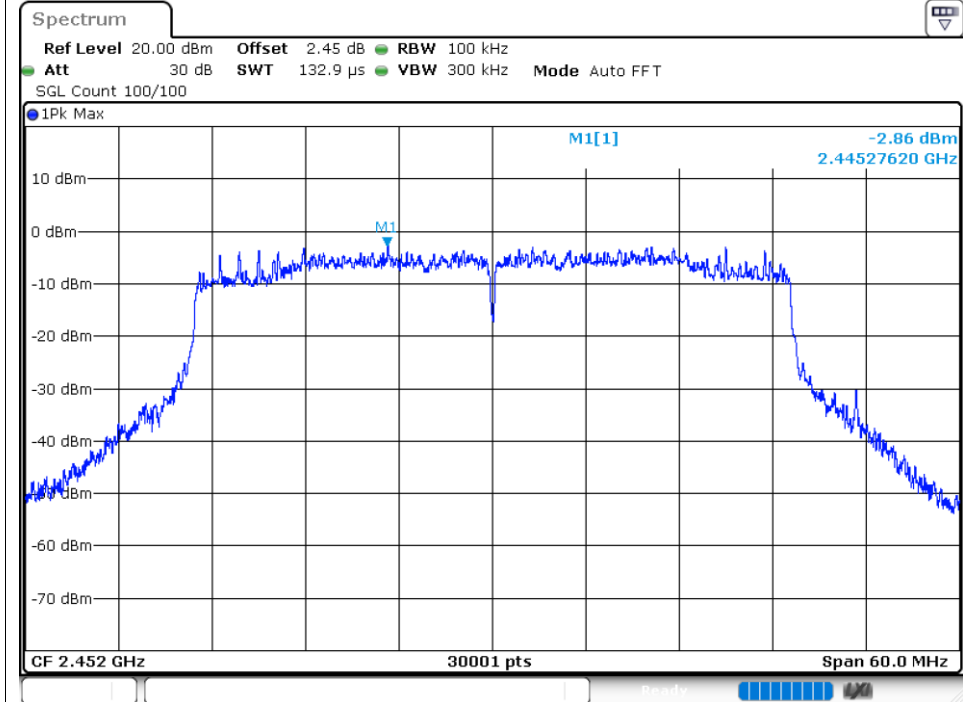
Tx. Spurious NVNT ax40 2437MHz Ant2 Ref



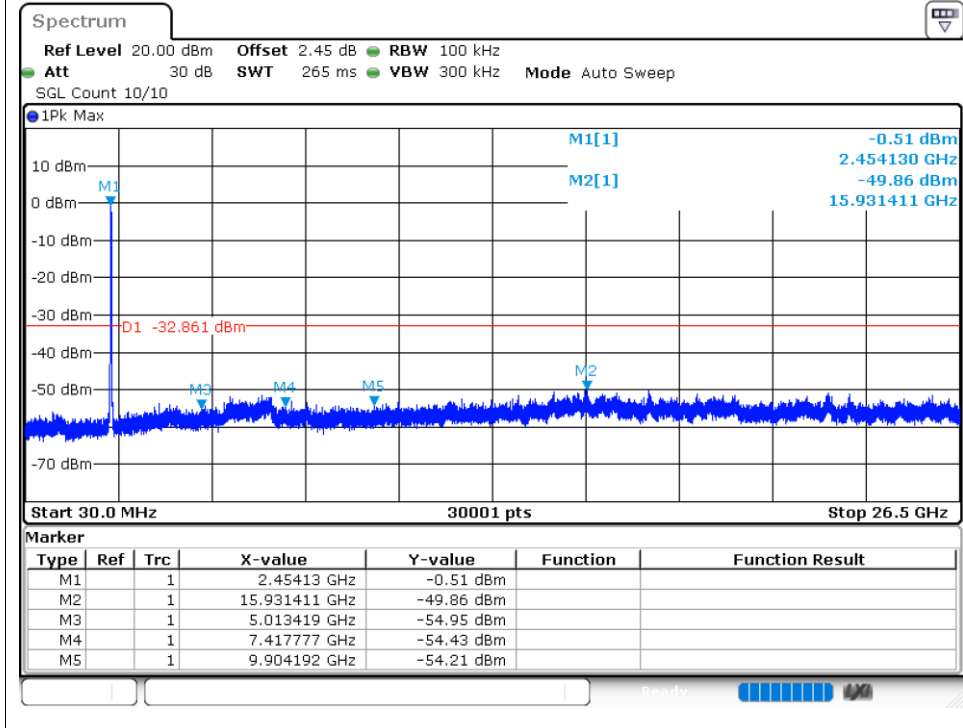
Tx. Spurious NVNT ax40 2437MHz Ant2 Emission



Tx. Spurious NVNT ax40 2452MHz Ant2 Ref



Tx. Spurious NVNT ax40 2452MHz Ant2 Emission



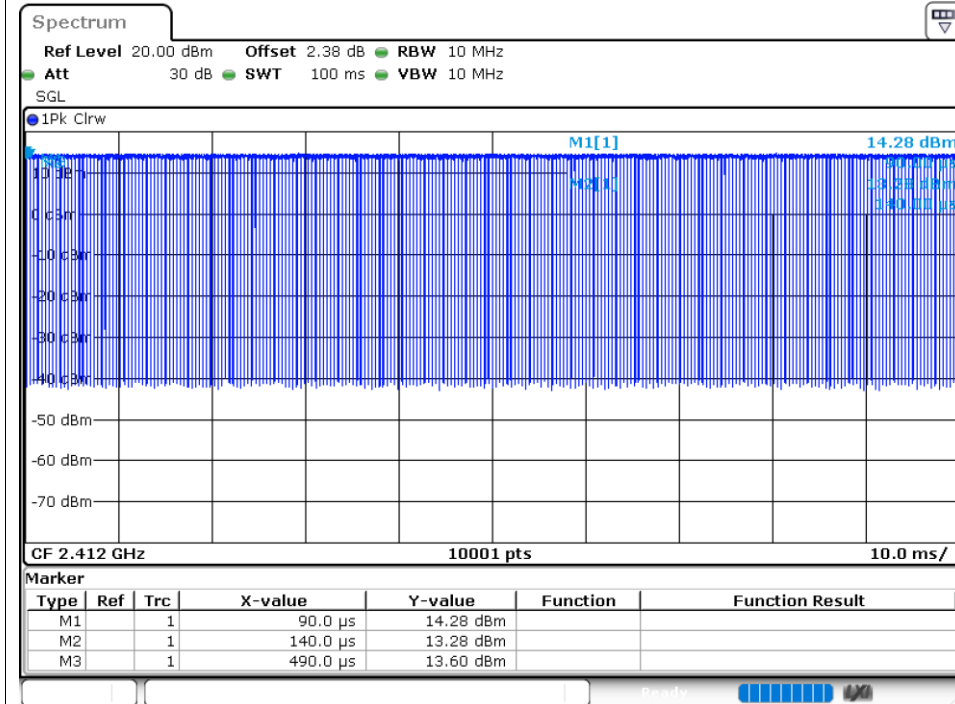
8.2 2.4G WIFI MIMO

8.2.1 Duty Cycle

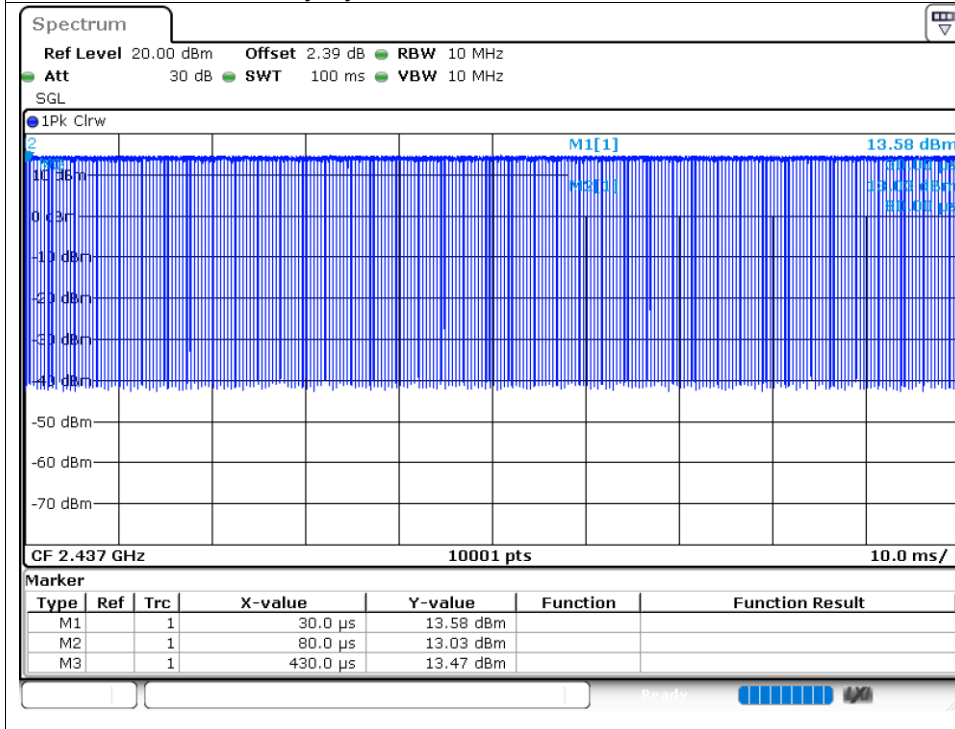
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	2412	Sum	90.48	0.43	2.86
NVNT	ax20	2437	Sum	90.64	0.43	2.86
NVNT	ax20	2462	Sum	90.54	0.43	2.86
NVNT	ax40	2422	Sum	99.5	0.02	0.13
NVNT	ax40	2437	Sum	99.5	0.02	0.13
NVNT	ax40	2452	Sum	99.54	0.02	0.13
NVNT	n20	2412	Sum	99.61	0.02	0.13
NVNT	n20	2437	Sum	99.66	0.01	0.13
NVNT	n20	2462	Sum	99.5	0.02	0.13
NVNT	n40	2422	Sum	99.52	0.02	0.13
NVNT	n40	2437	Sum	99.52	0.02	0.13
NVNT	n40	2452	Sum	99.5	0.02	0.13

Test Graphs

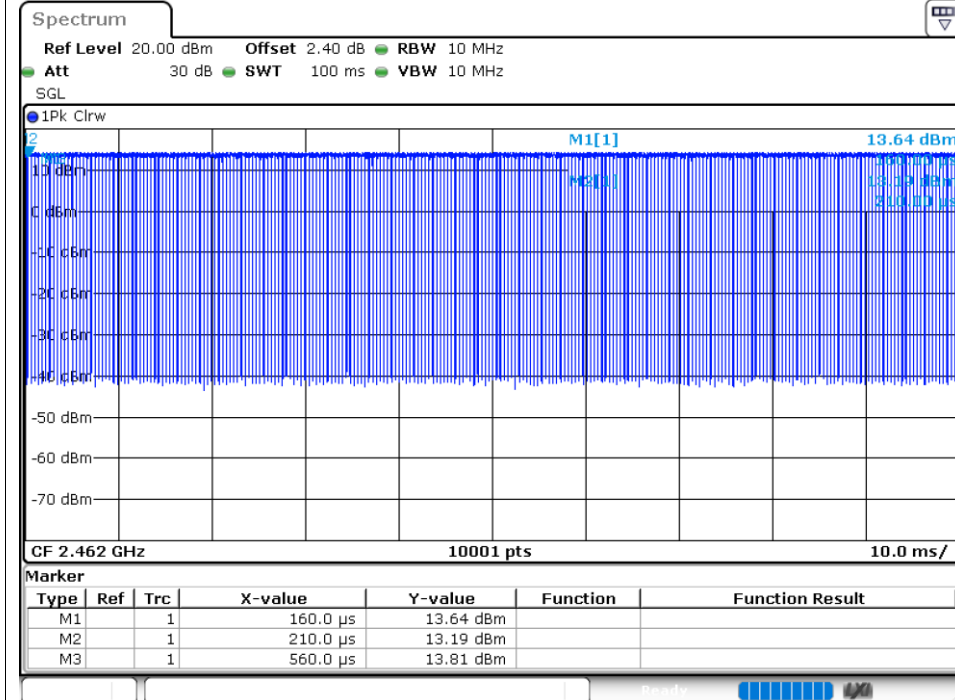
Duty Cycle NVNT ax20 2412MHz Sum



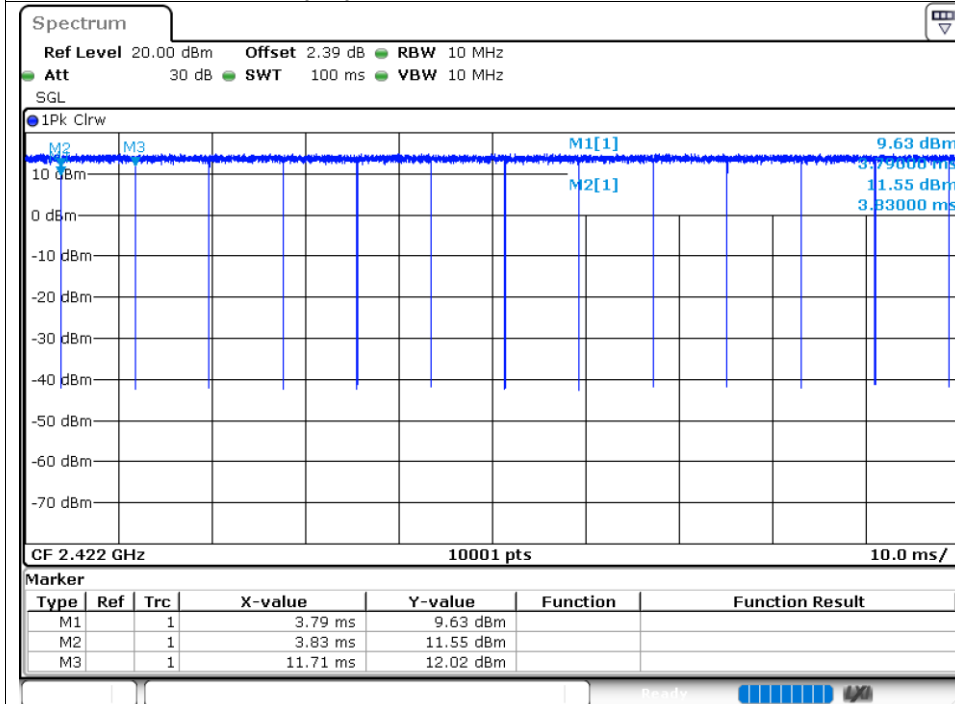
Duty Cycle NVNT ax20 2437MHz Sum

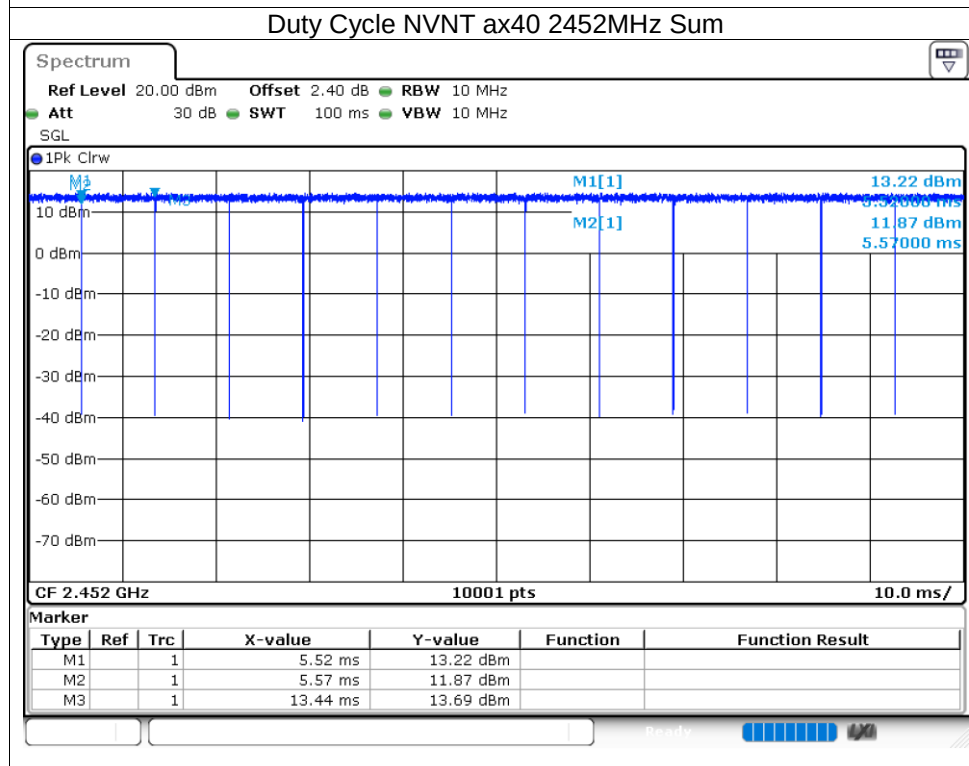
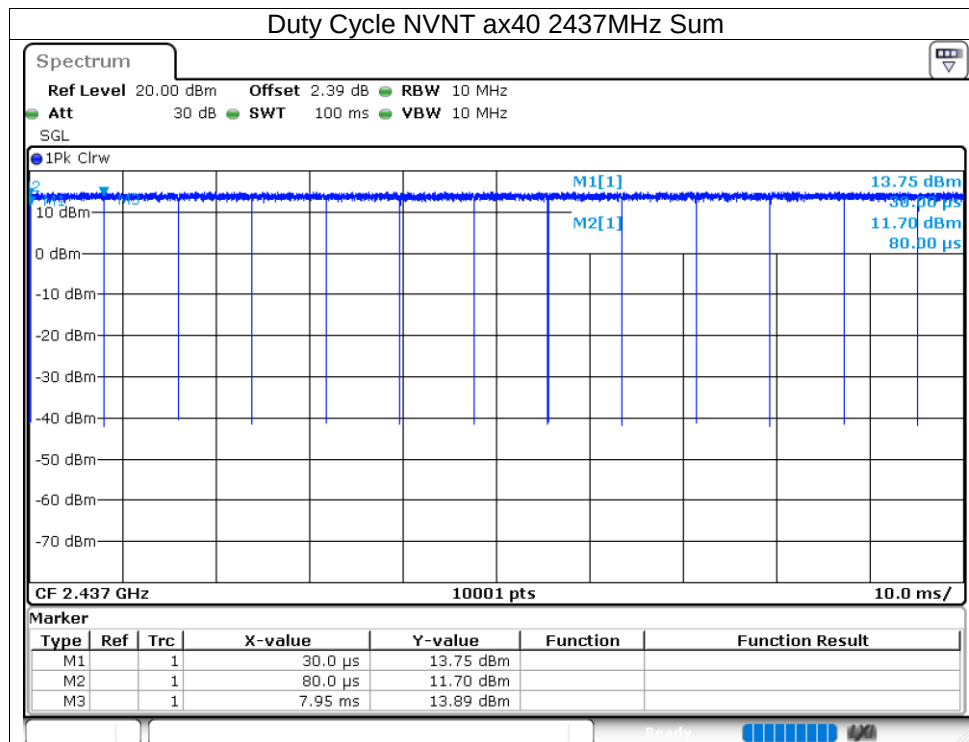


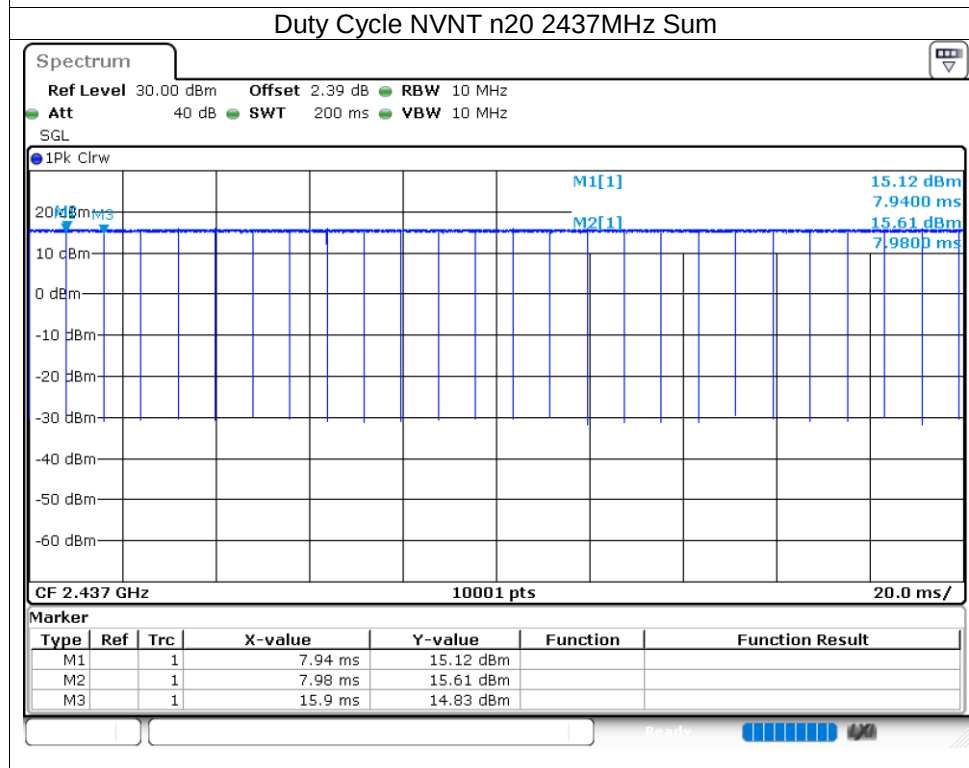
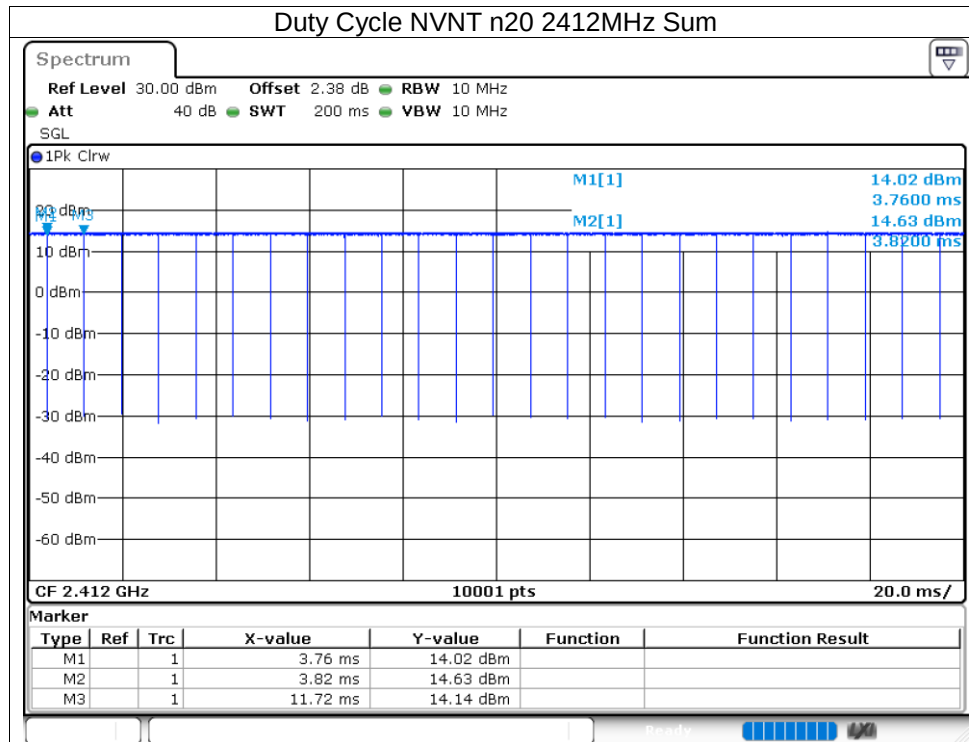
Duty Cycle NVNT ax20 2462MHz Sum

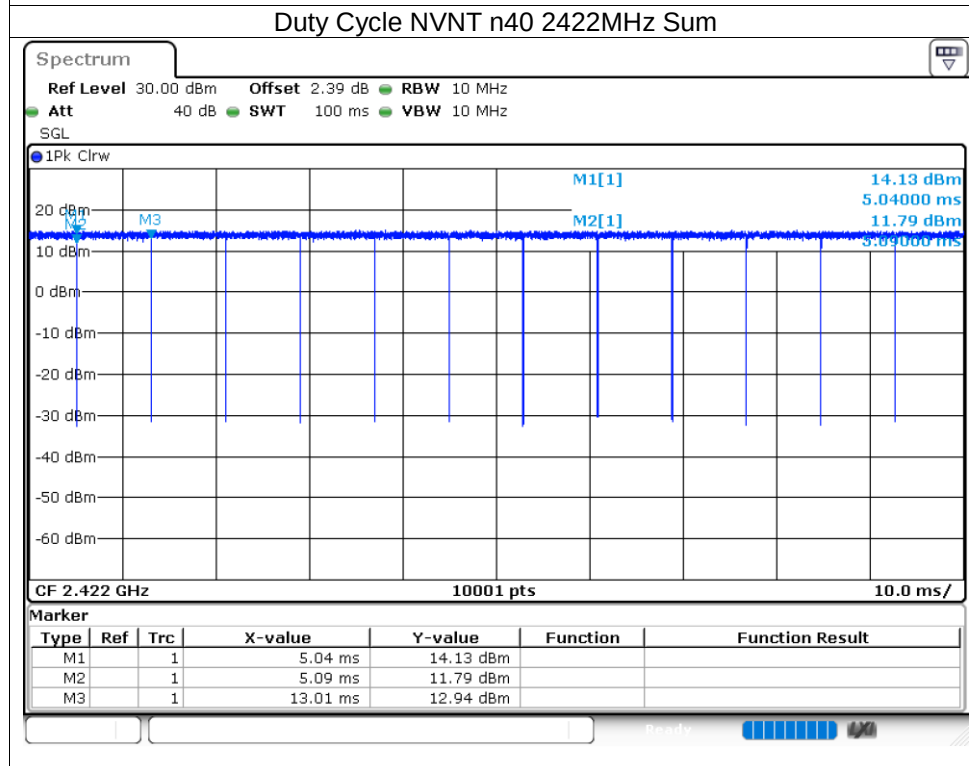
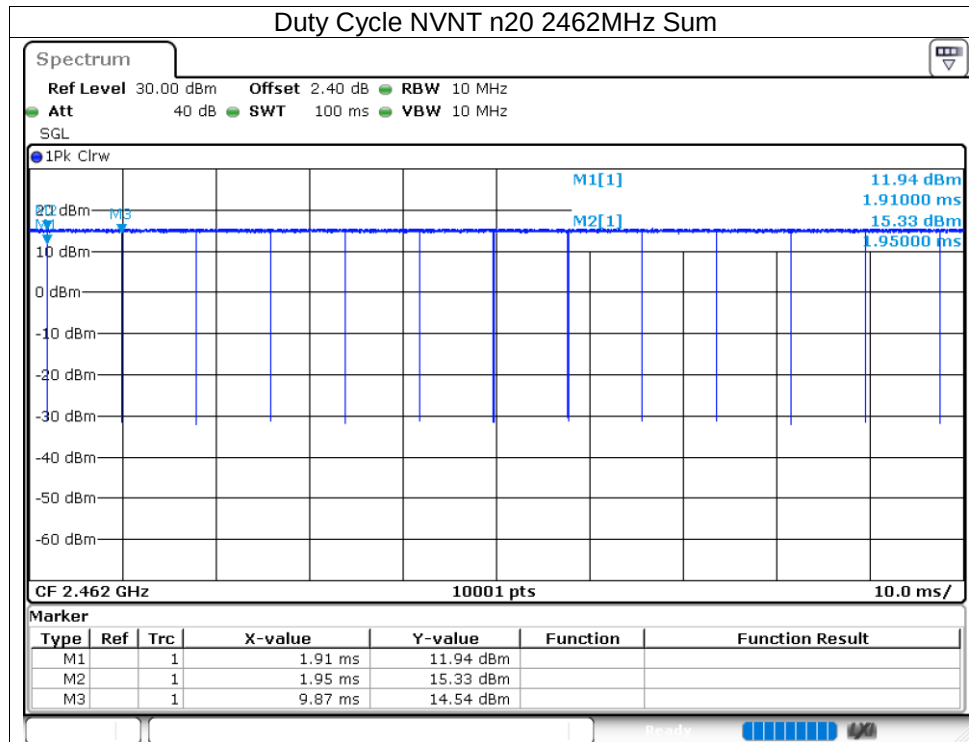


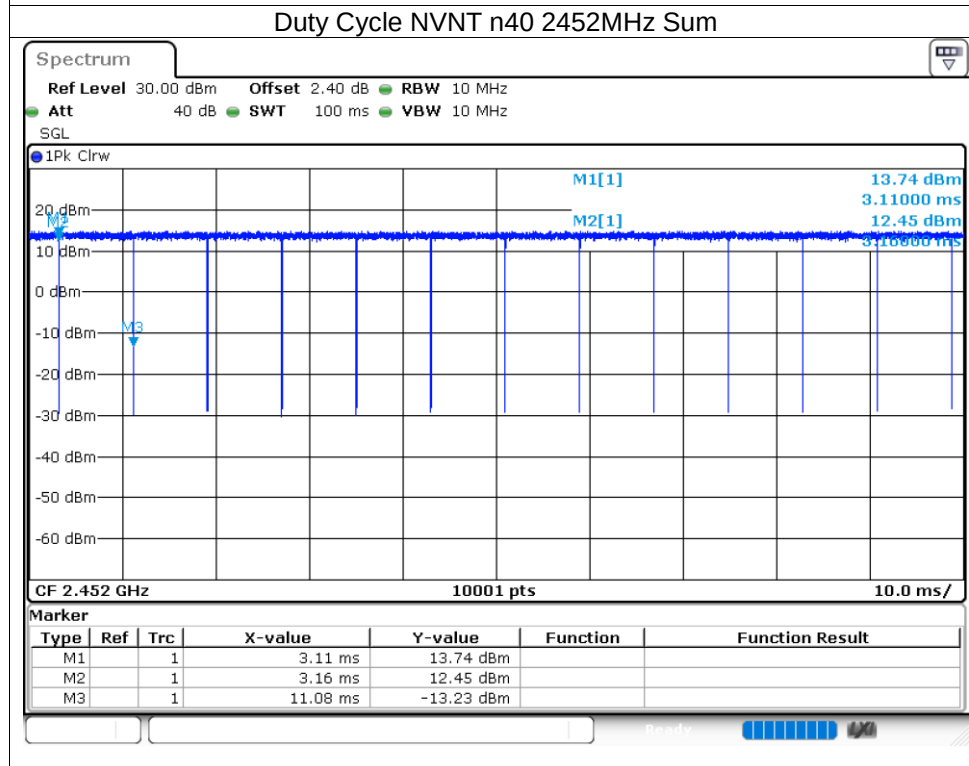
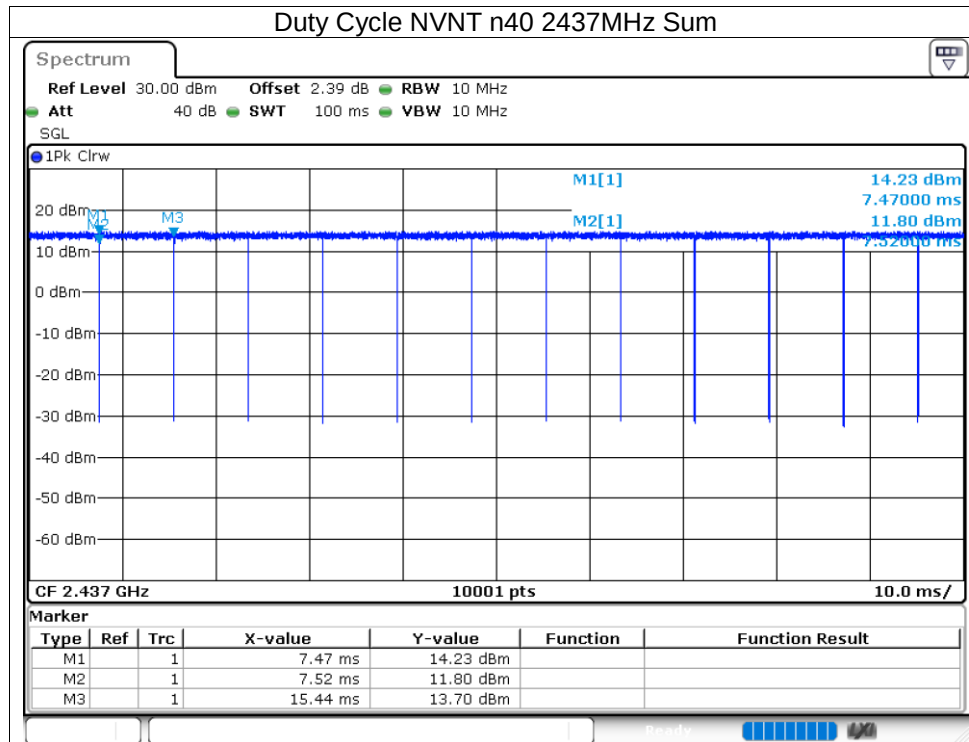
Duty Cycle NVNT ax40 2422MHz Sum











8.2.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant1	11.96	30	Pass
NVNT	ax20	2412	Ant2	13.33	30	Pass
NVNT	ax20	2412	Sum	15.71	30	Pass
NVNT	ax20	2437	Ant1	12.12	30	Pass
NVNT	ax20	2437	Ant2	13.6	30	Pass
NVNT	ax20	2437	Sum	15.93	30	Pass
NVNT	ax20	2462	Ant1	11.8	30	Pass
NVNT	ax20	2462	Ant2	13.3	30	Pass
NVNT	ax20	2462	Sum	15.62	30	Pass
NVNT	ax40	2422	Ant1	12.6	30	Pass
NVNT	ax40	2422	Ant2	13.92	30	Pass
NVNT	ax40	2422	Sum	16.32	30	Pass
NVNT	ax40	2437	Ant1	12.84	30	Pass
NVNT	ax40	2437	Ant2	14.03	30	Pass
NVNT	ax40	2437	Sum	16.49	30	Pass
NVNT	ax40	2452	Ant1	12.74	30	Pass
NVNT	ax40	2452	Ant2	14.05	30	Pass
NVNT	ax40	2452	Sum	16.45	30	Pass
NVNT	n20	2412	Ant1	11.79	30	Pass
NVNT	n20	2412	Ant2	13.13	30	Pass
NVNT	n20	2412	Sum	15.52	30	Pass
NVNT	n20	2437	Ant1	12.72	30	Pass
NVNT	n20	2437	Ant2	14.37	30	Pass
NVNT	n20	2437	Sum	16.63	30	Pass
NVNT	n20	2462	Ant1	12.35	30	Pass
NVNT	n20	2462	Ant2	14.07	30	Pass
NVNT	n20	2462	Sum	16.3	30	Pass
NVNT	n40	2422	Ant1	12.84	30	Pass
NVNT	n40	2422	Ant2	14.2	30	Pass
NVNT	n40	2422	Sum	16.58	30	Pass
NVNT	n40	2437	Ant1	12.78	30	Pass
NVNT	n40	2437	Ant2	14.22	30	Pass
NVNT	n40	2437	Sum	16.57	30	Pass
NVNT	n40	2452	Ant1	12.89	30	Pass
NVNT	n40	2452	Ant2	14.26	30	Pass
NVNT	n40	2452	Sum	16.64	30	Pass

8.2.3 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant1	17.529	0.5	Pass
NVNT	ax20	2412	Ant2	18.213	0.5	Pass
NVNT	ax20	2437	Ant1	19.014	0.5	Pass
NVNT	ax20	2437	Ant2	17.544	0.5	Pass
NVNT	ax20	2462	Ant1	16.887	0.5	Pass
NVNT	ax20	2462	Ant2	18.048	0.5	Pass
NVNT	ax40	2422	Ant1	33.54	0.5	Pass
NVNT	ax40	2422	Ant2	37.704	0.5	Pass
NVNT	ax40	2437	Ant1	36.396	0.5	Pass
NVNT	ax40	2437	Ant2	36.612	0.5	Pass
NVNT	ax40	2452	Ant1	32.268	0.5	Pass
NVNT	ax40	2452	Ant2	31.734	0.5	Pass
NVNT	n20	2412	Ant1	11.7	0.5	Pass
NVNT	n20	2412	Ant2	17.55	0.5	Pass
NVNT	n20	2437	Ant1	17.577	0.5	Pass
NVNT	n20	2437	Ant2	17.592	0.5	Pass
NVNT	n20	2462	Ant1	17.595	0.5	Pass
NVNT	n20	2462	Ant2	17.586	0.5	Pass
NVNT	n40	2422	Ant1	36.27	0.5	Pass
NVNT	n40	2422	Ant2	36.318	0.5	Pass
NVNT	n40	2437	Ant1	25.344	0.5	Pass
NVNT	n40	2437	Ant2	36.294	0.5	Pass
NVNT	n40	2452	Ant1	30.432	0.5	Pass
NVNT	n40	2452	Ant2	36.318	0.5	Pass

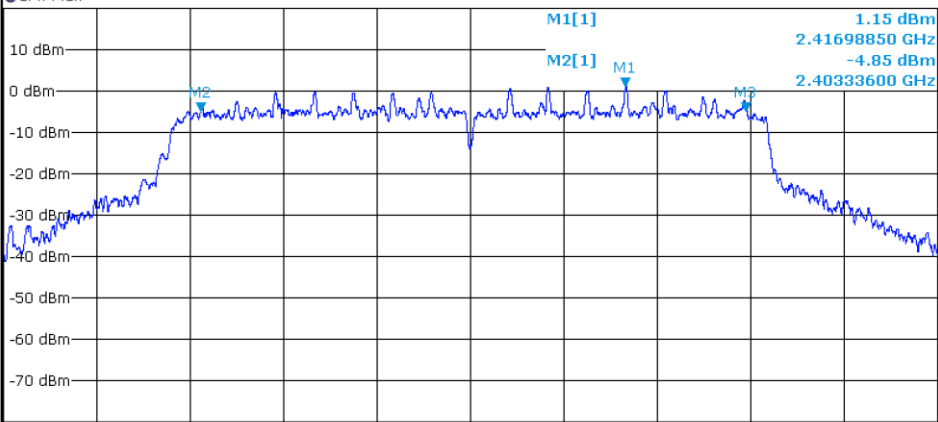
Test Graphs

-6dB Bandwidth NVNT ax20 2412MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 30 dB SWT 75.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 2.412 GHz 10001 pts Span 30.0 MHz

Marker

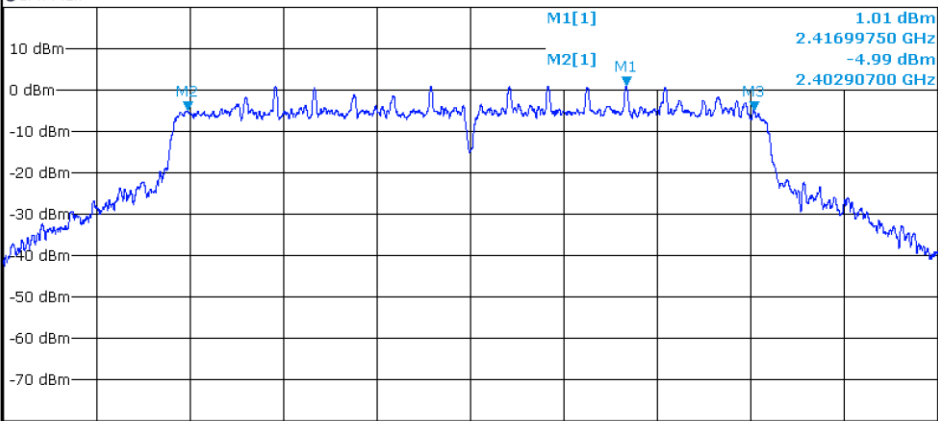
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4169885 GHz	1.15 dBm		
M2		1	2.403336 GHz	-4.85 dBm		
M3		1	2.420865 GHz	-4.84 dBm		

-6dB Bandwidth NVNT ax20 2412MHz Ant2

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 100 kHz
Att 30 dB SWT 75.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

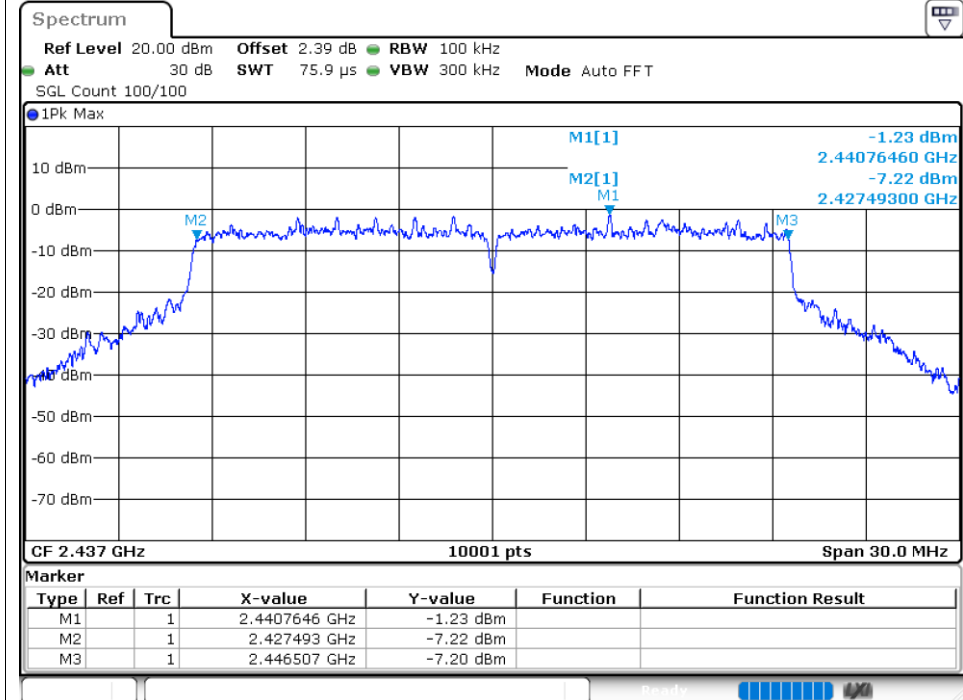


CF 2.412 GHz 10001 pts Span 30.0 MHz

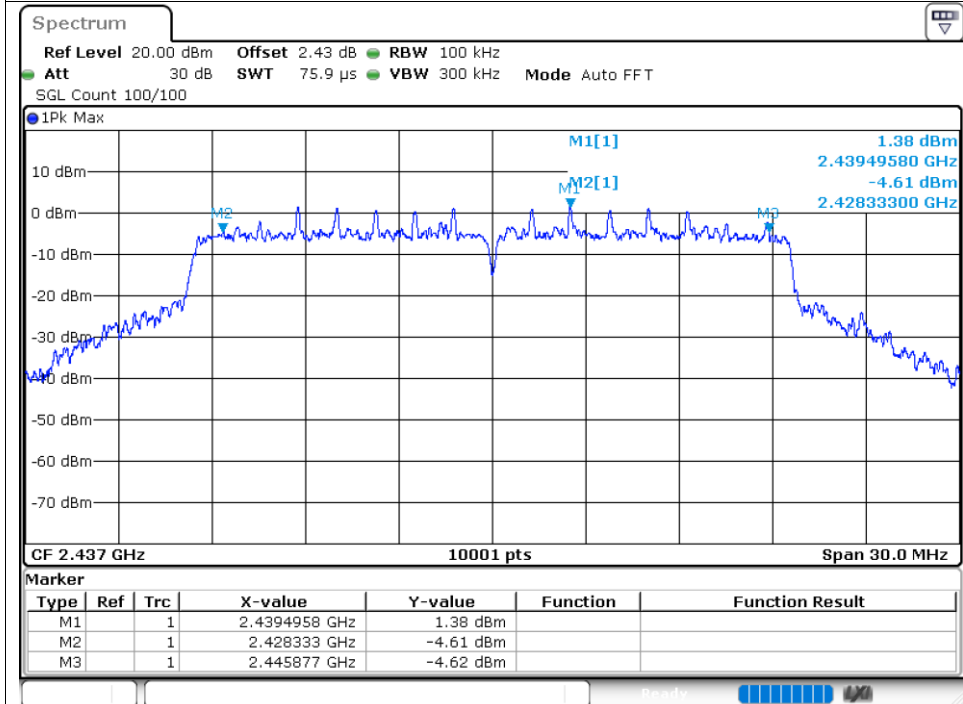
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4169975 GHz	1.01 dBm		
M2		1	2.402907 GHz	-4.99 dBm		
M3		1	2.42112 GHz	-4.97 dBm		

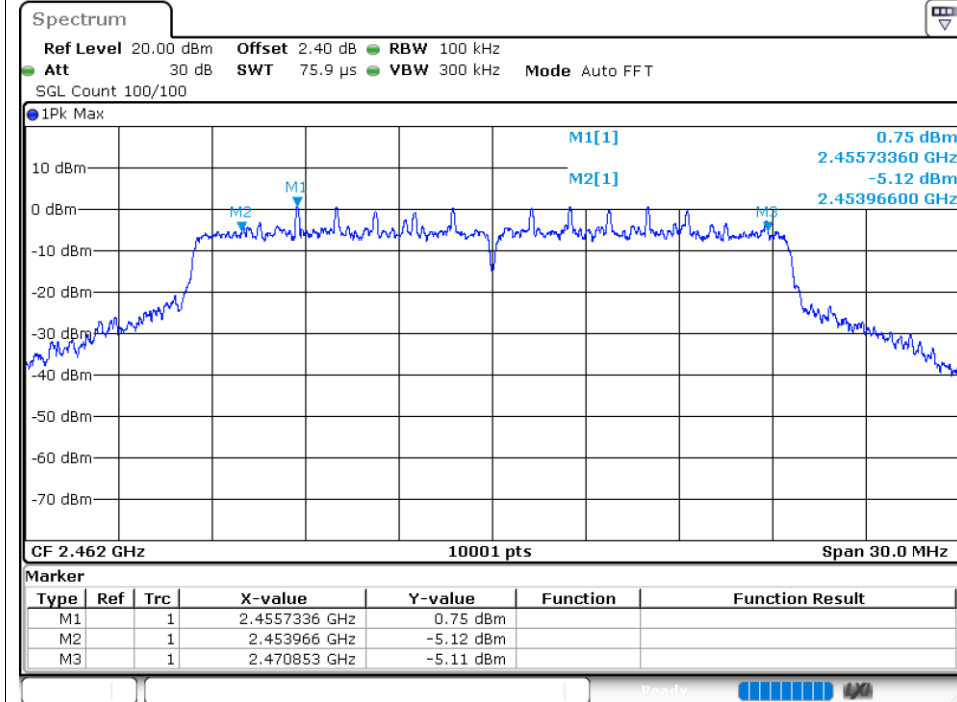
-6dB Bandwidth NVNT ax20 2437MHz Ant1



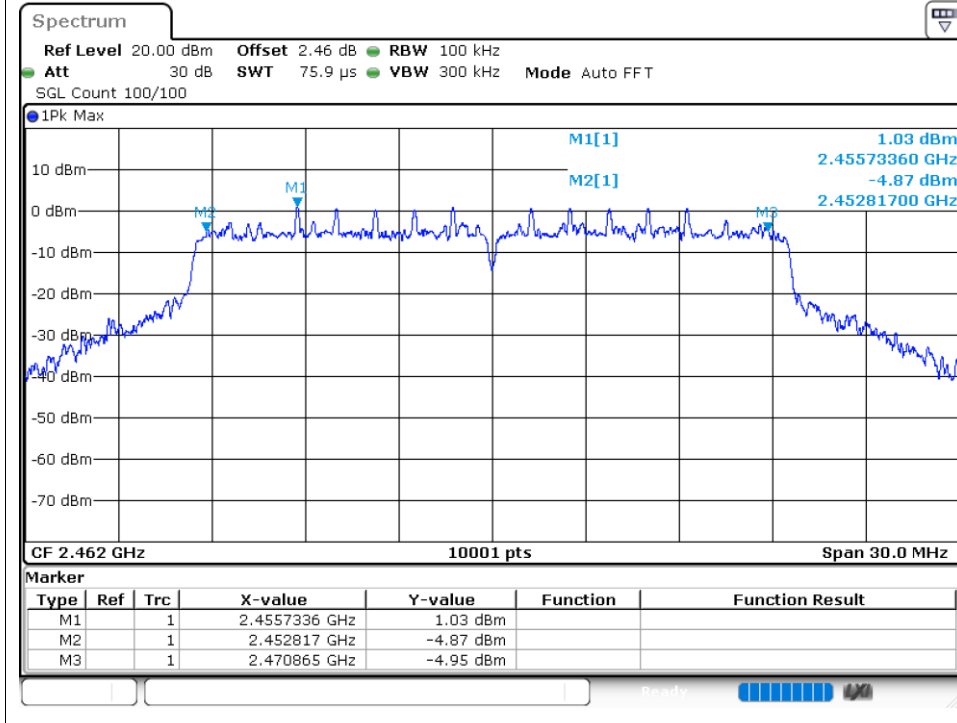
-6dB Bandwidth NVNT ax20 2437MHz Ant2



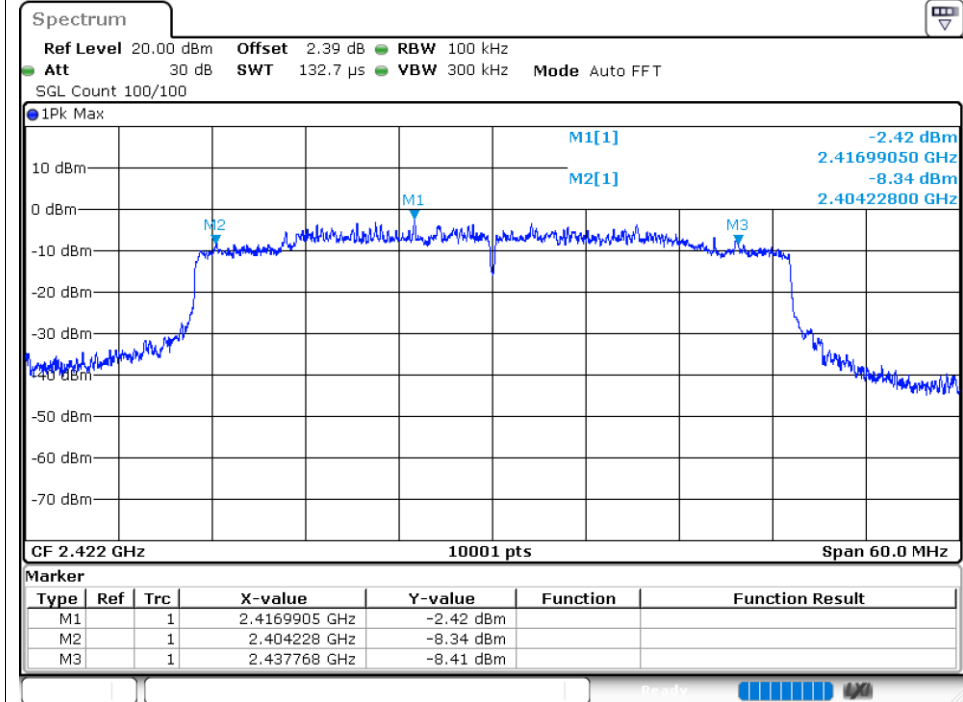
-6dB Bandwidth NVNT ax20 2462MHz Ant1



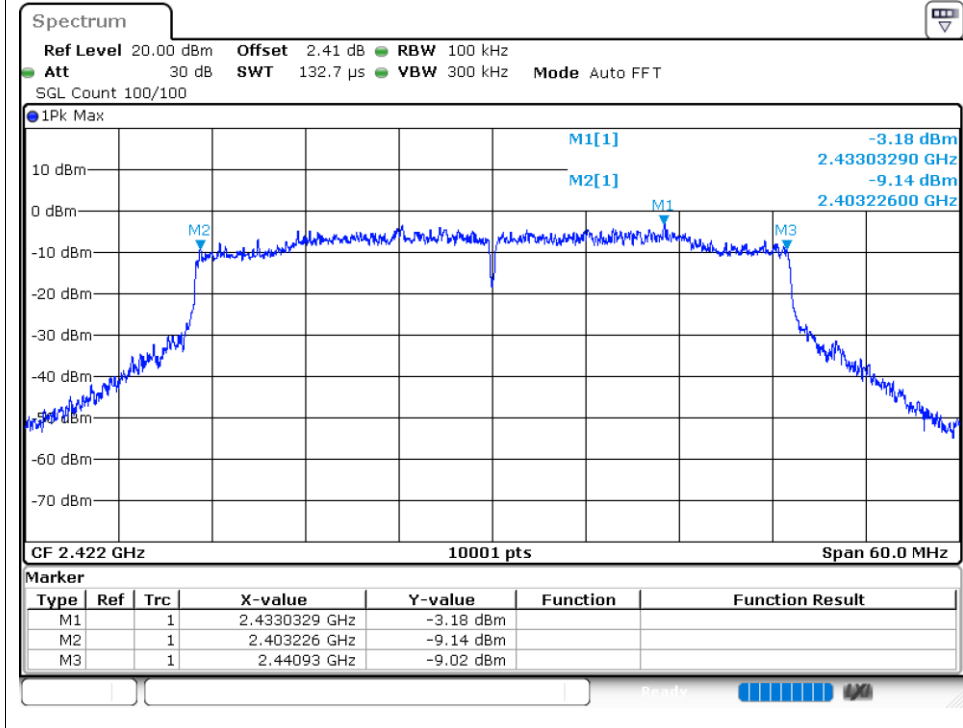
-6dB Bandwidth NVNT ax20 2462MHz Ant2



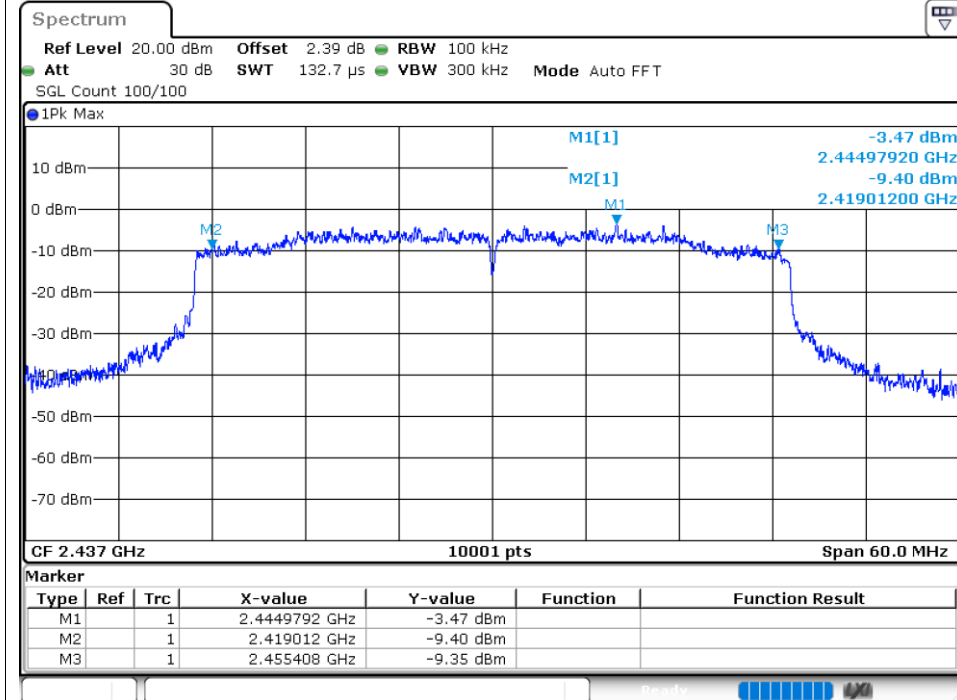
-6dB Bandwidth NVNT ax40 2422MHz Ant1



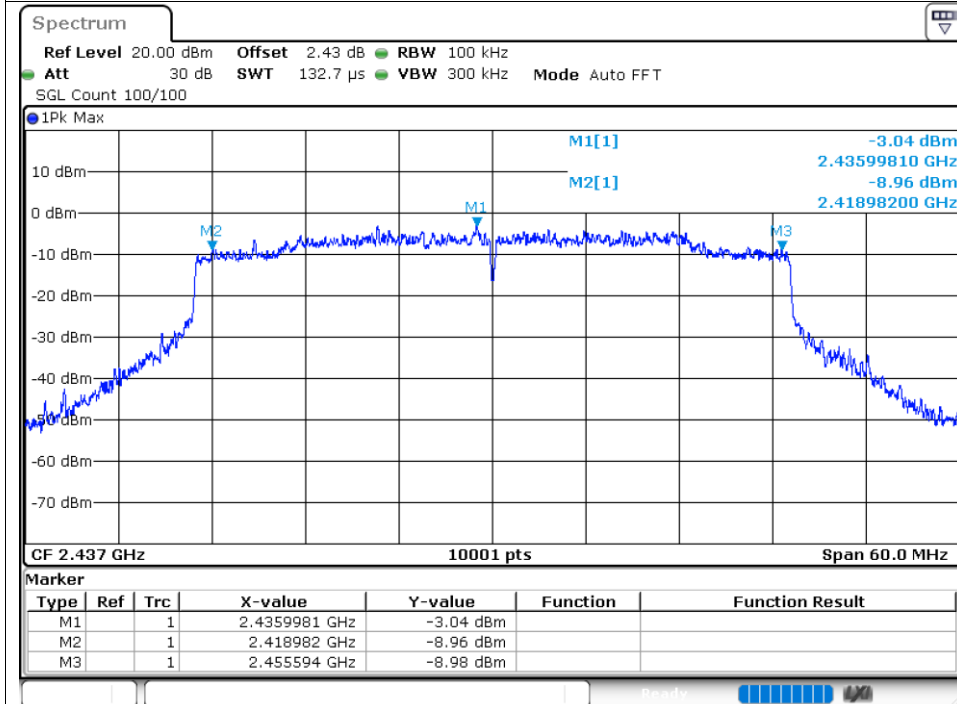
-6dB Bandwidth NVNT ax40 2422MHz Ant2



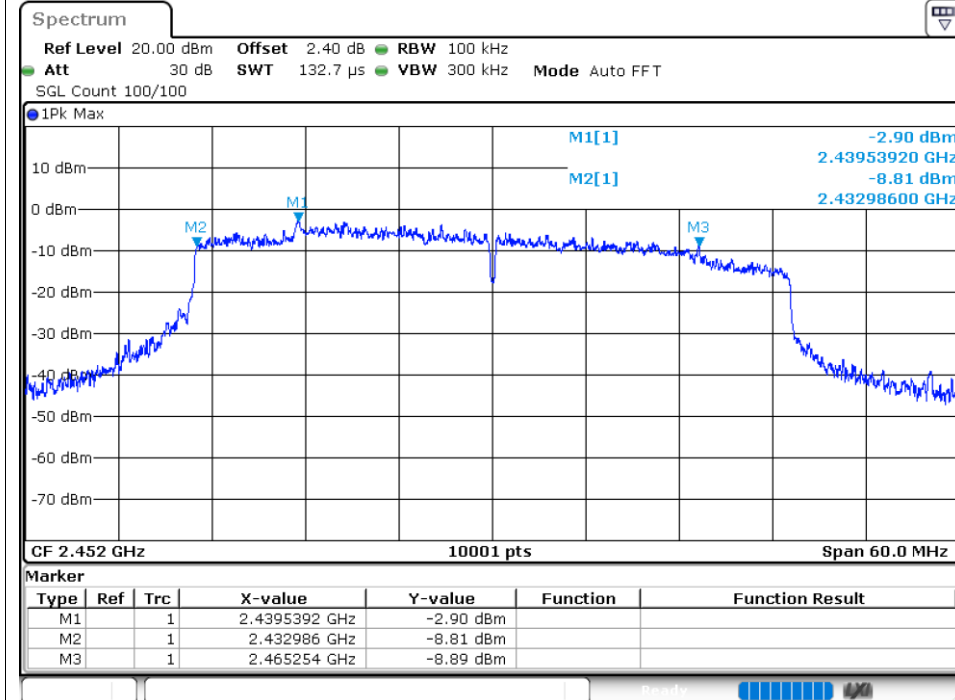
-6dB Bandwidth NVNT ax40 2437MHz Ant1



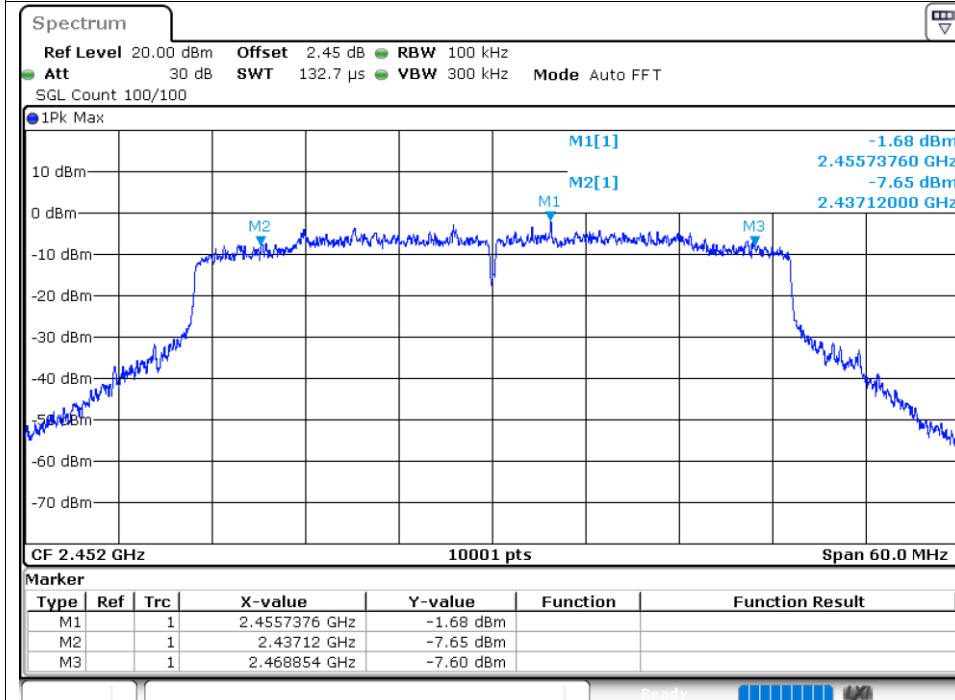
-6dB Bandwidth NVNT ax40 2437MHz Ant2



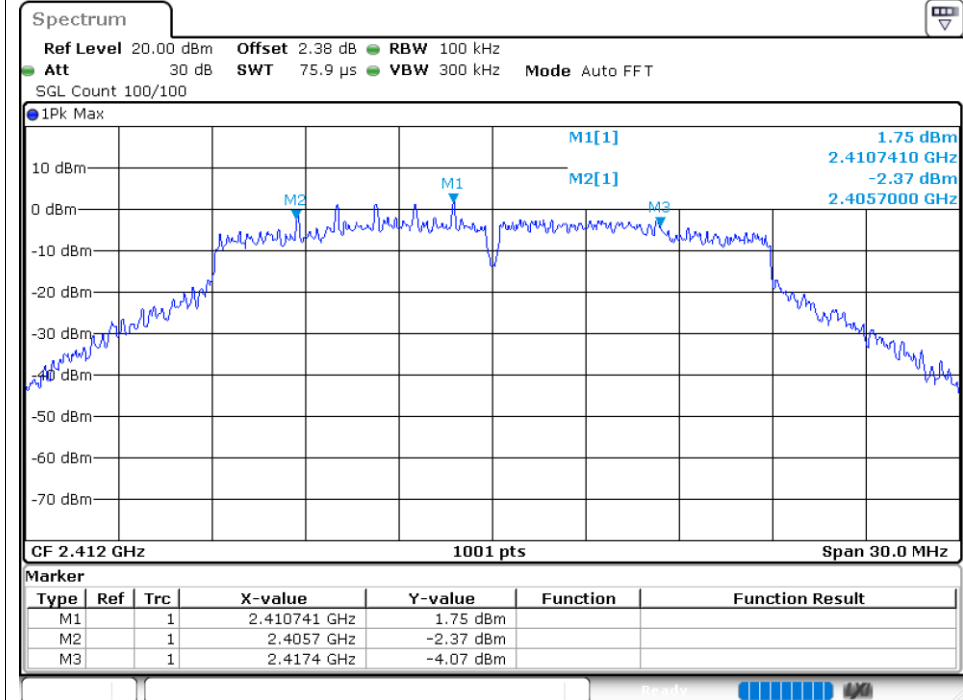
-6dB Bandwidth NVNT ax40 2452MHz Ant1



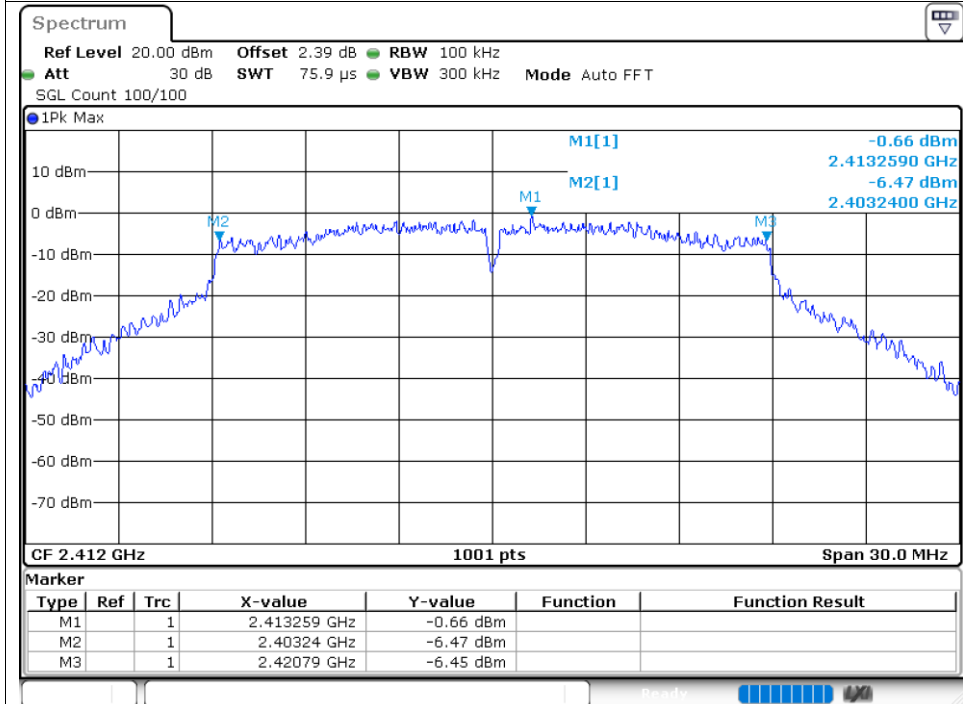
-6dB Bandwidth NVNT ax40 2452MHz Ant2



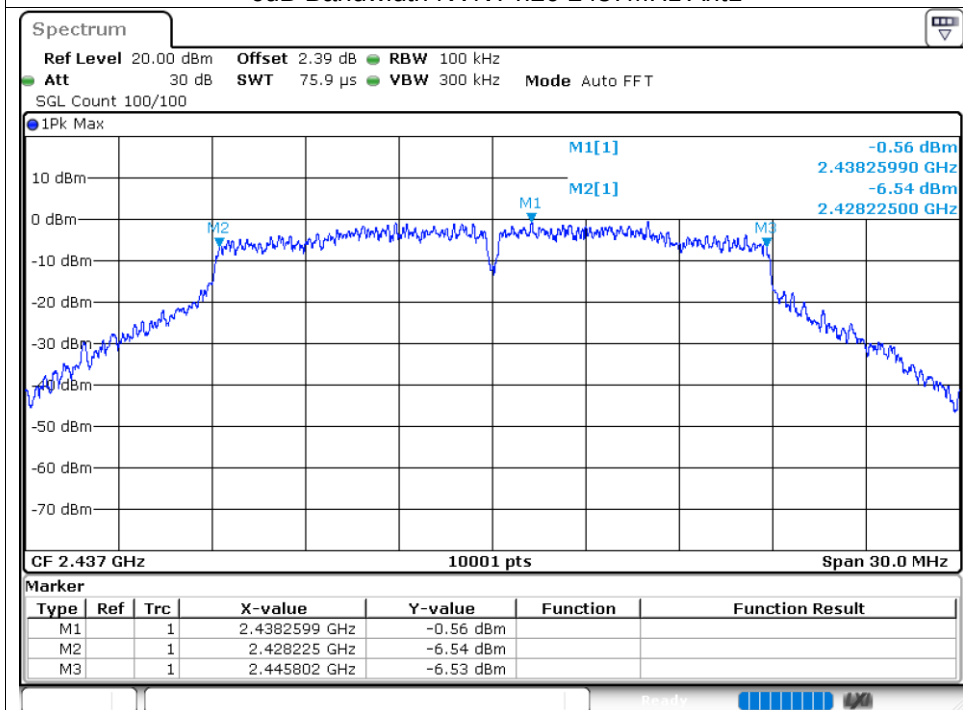
-6dB Bandwidth NVNT n20 2412MHz Ant1



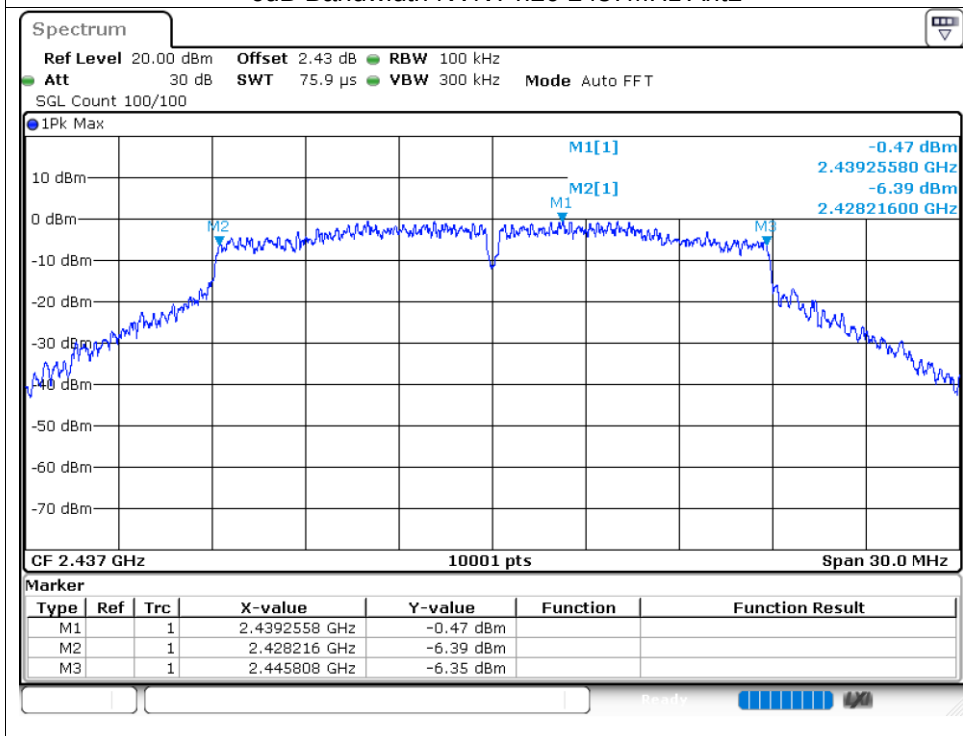
-6dB Bandwidth NVNT n20 2412MHz Ant2



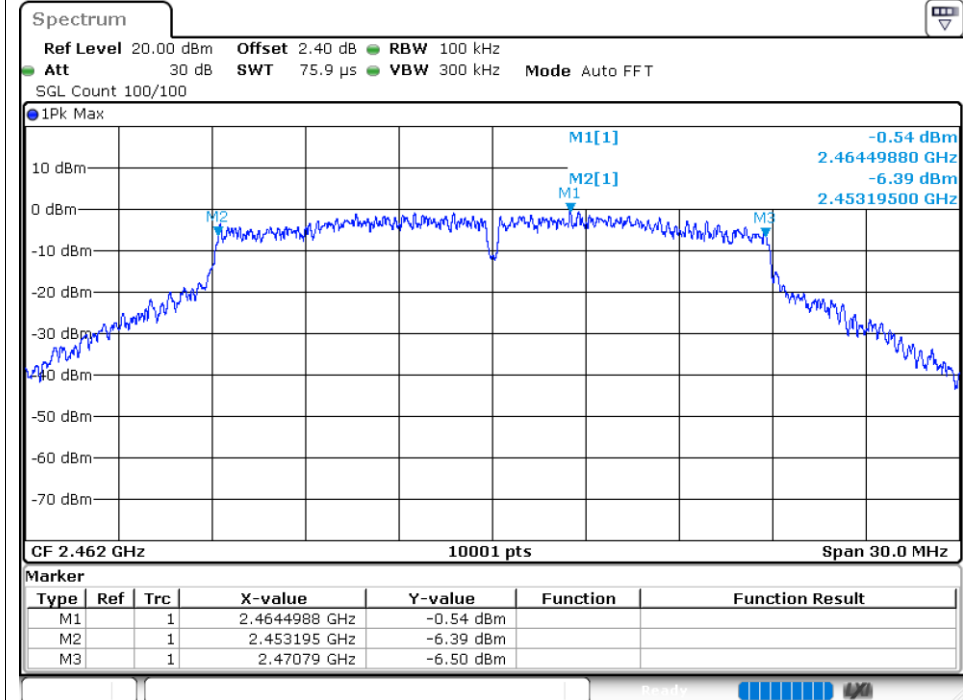
-6dB Bandwidth NVNT n20 2437MHz Ant1



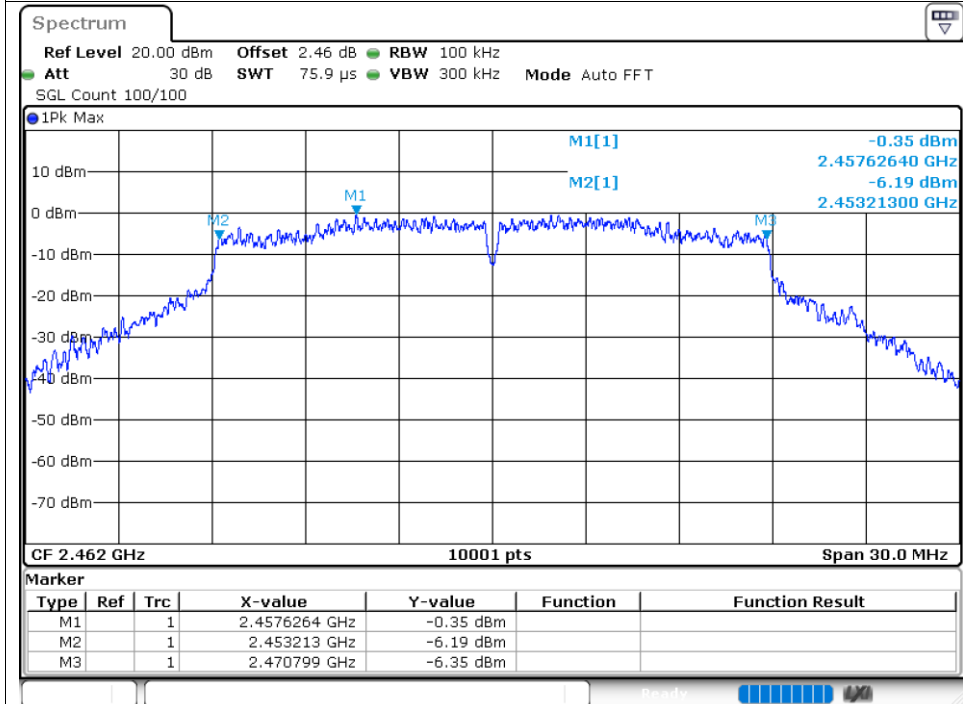
-6dB Bandwidth NVNT n20 2437MHz Ant2



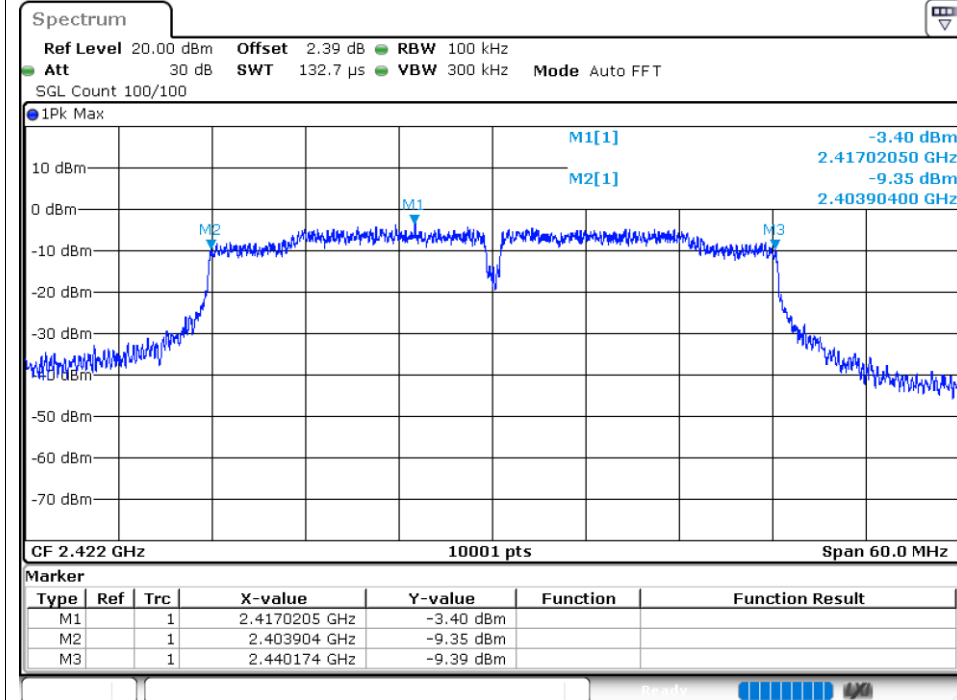
-6dB Bandwidth NVNT n20 2462MHz Ant1



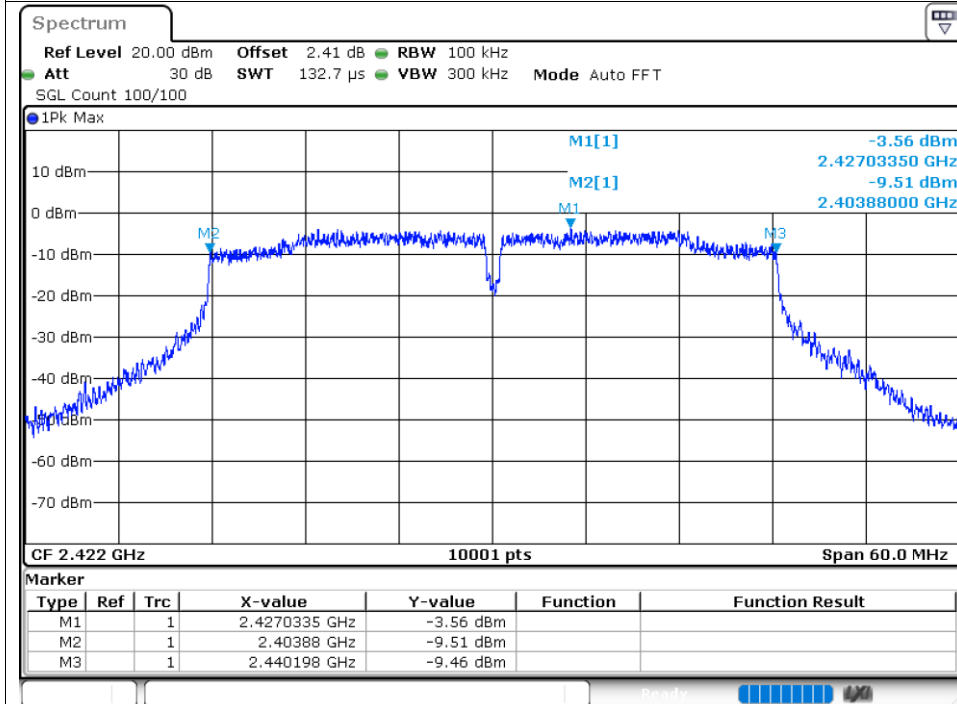
-6dB Bandwidth NVNT n20 2462MHz Ant2



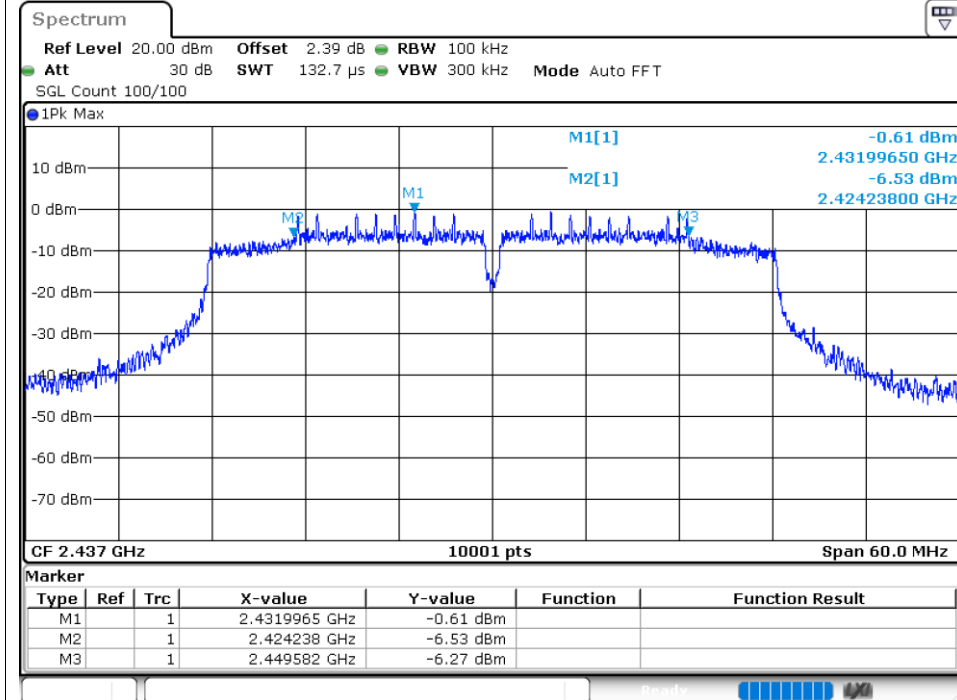
-6dB Bandwidth NVNT n40 2422MHz Ant1



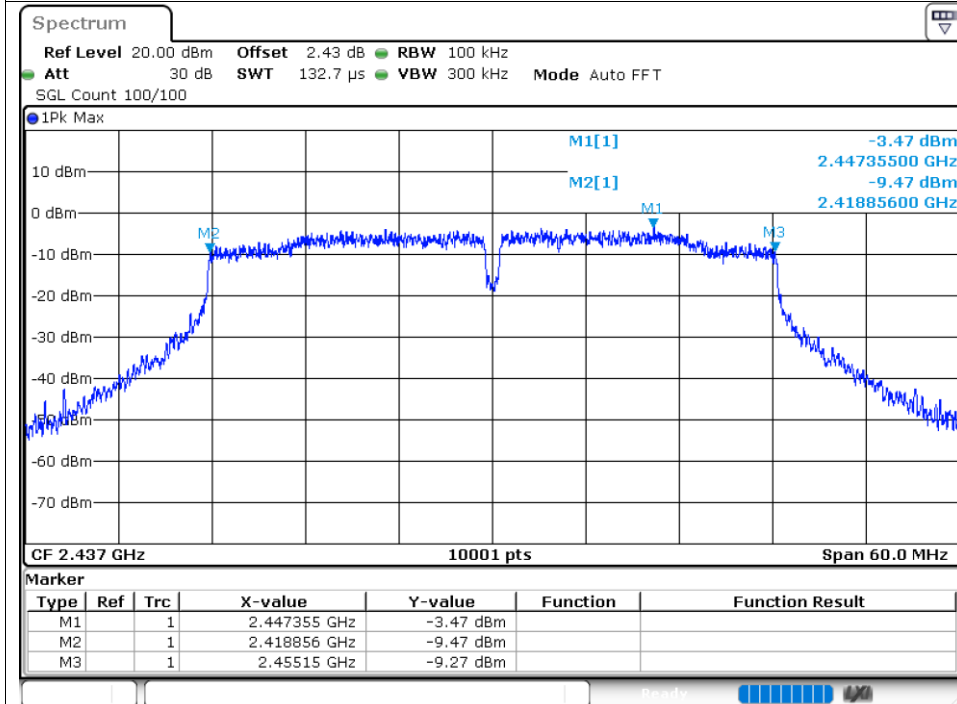
-6dB Bandwidth NVNT n40 2422MHz Ant2



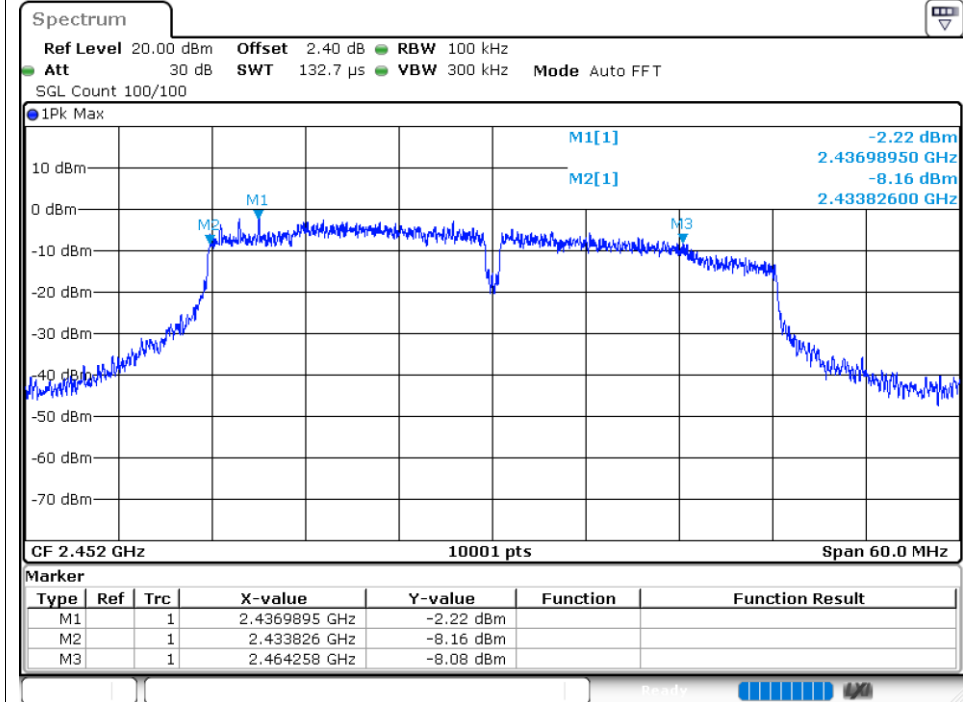
-6dB Bandwidth NVNT n40 2437MHz Ant1



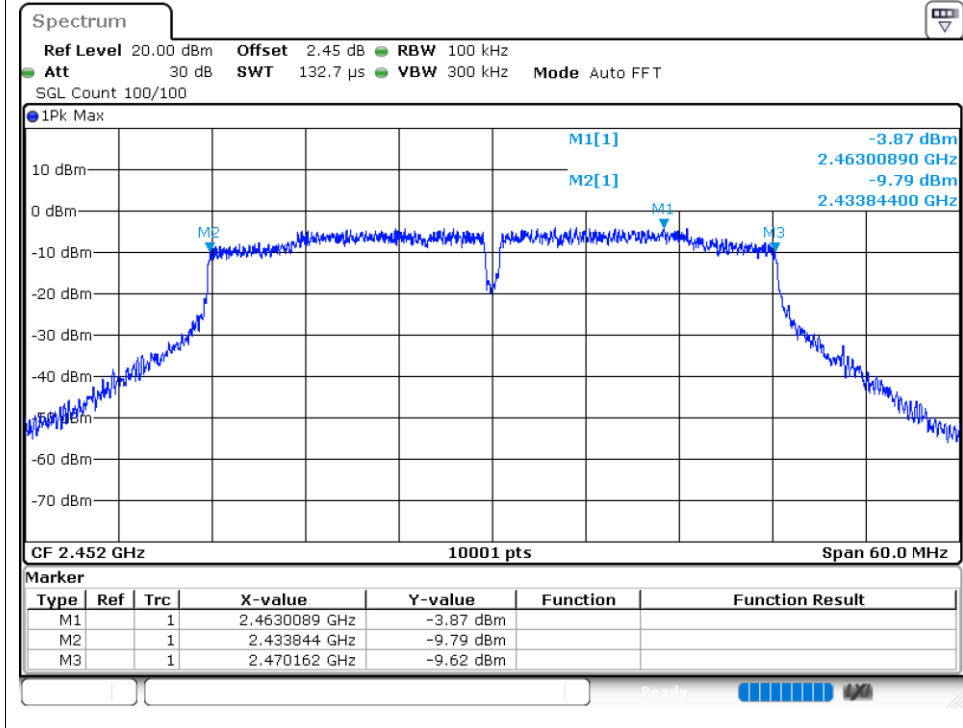
-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant1

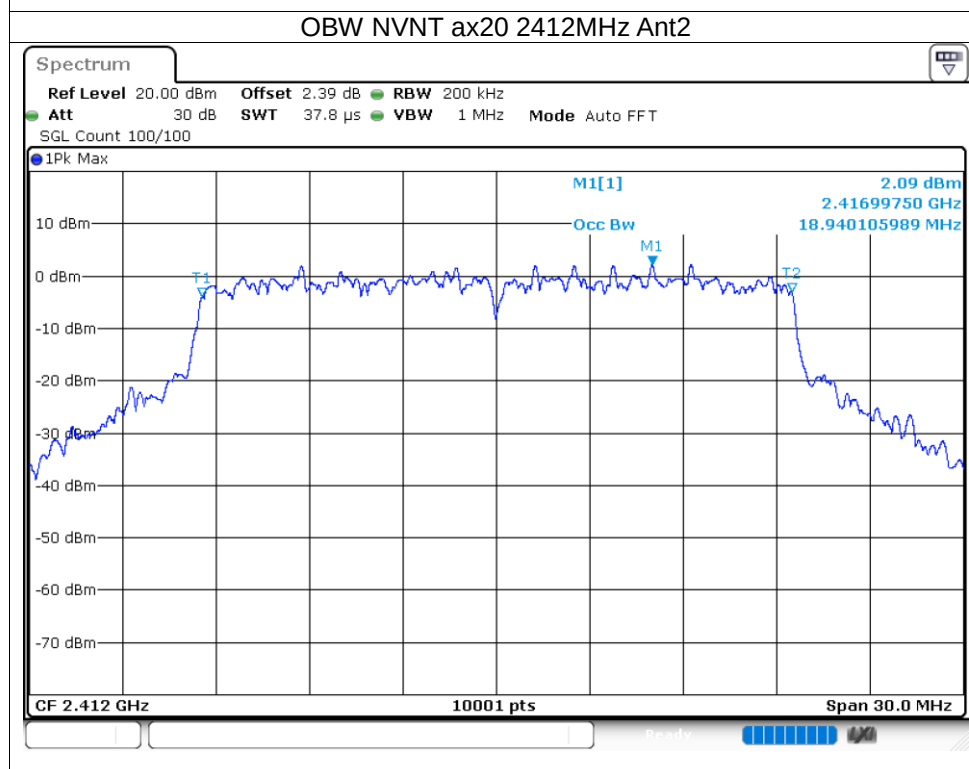
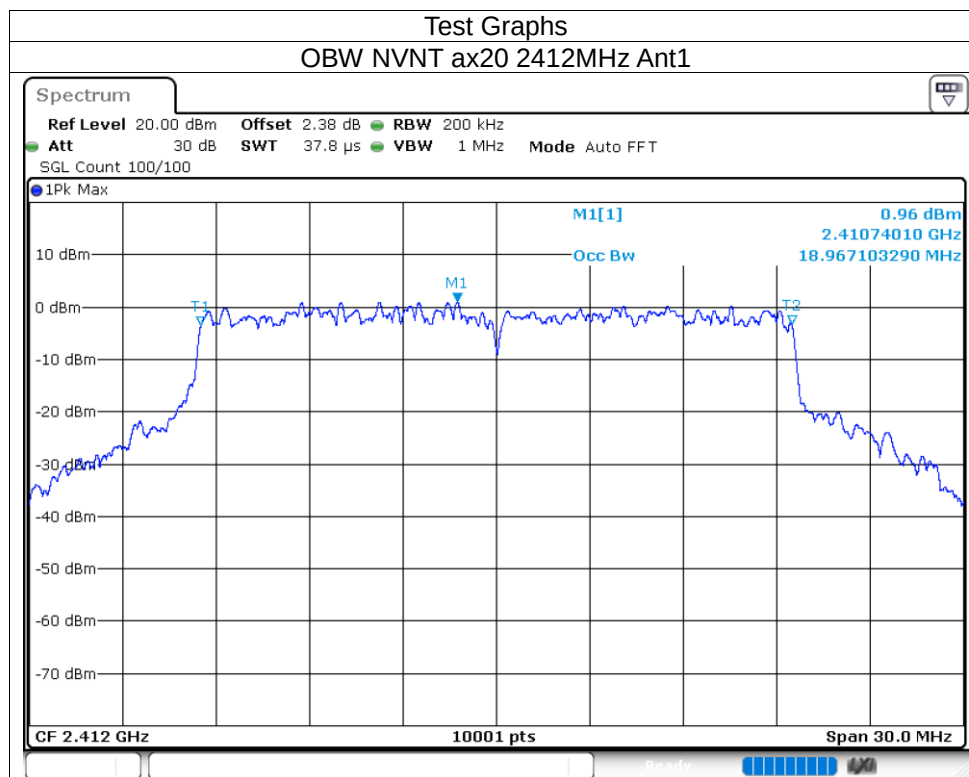


-6dB Bandwidth NVNT n40 2452MHz Ant2

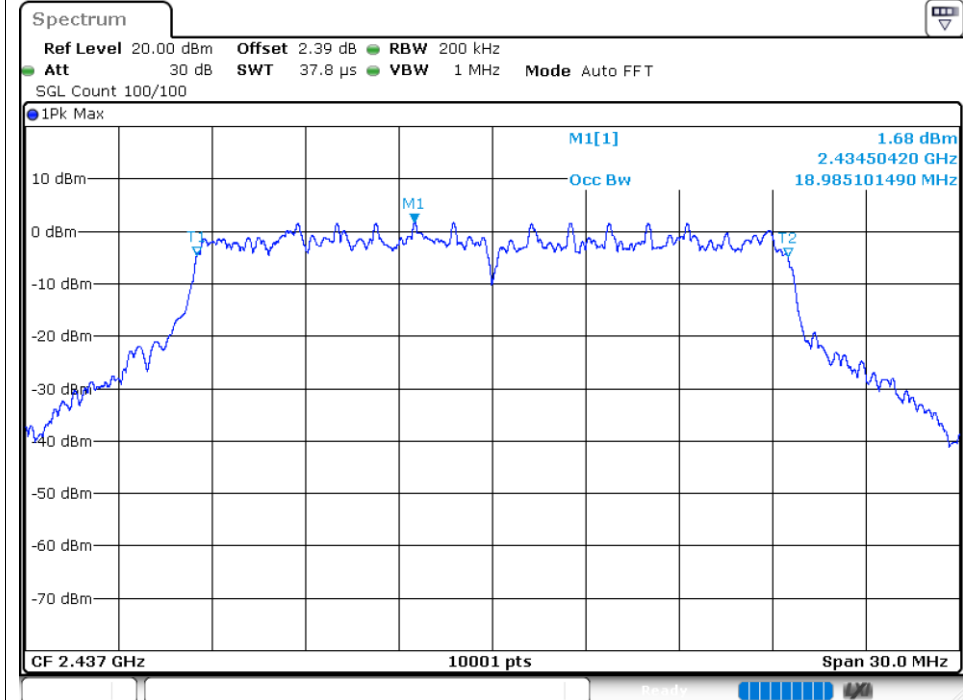


8.2.4 Occupied Channel Bandwidth

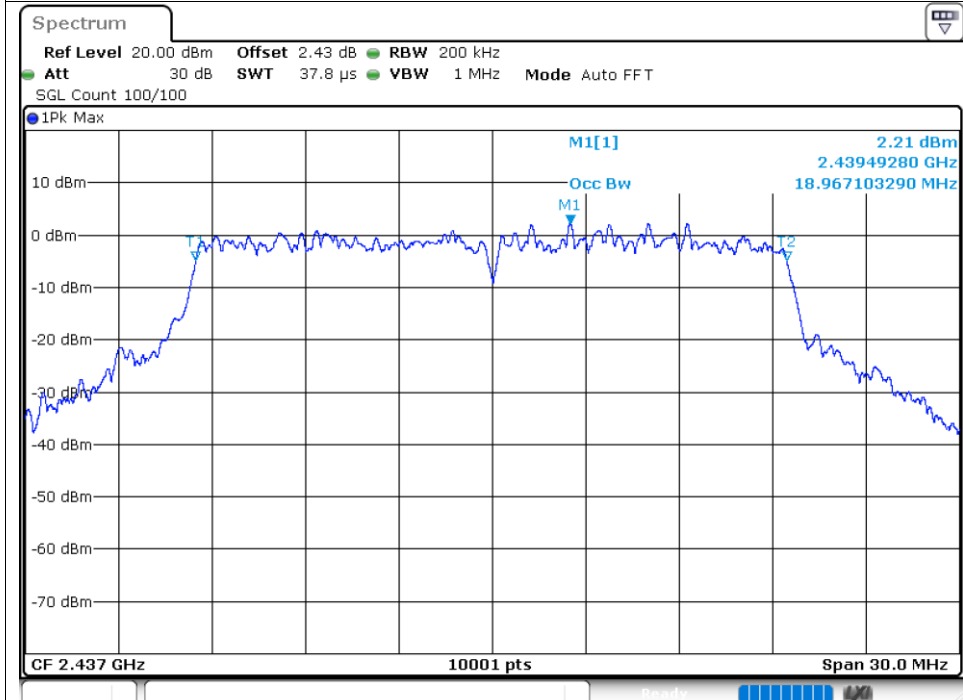
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	18.967
NVNT	ax20	2412	Ant2	18.94
NVNT	ax20	2437	Ant1	18.985
NVNT	ax20	2437	Ant2	18.967
NVNT	ax20	2462	Ant1	18.946
NVNT	ax20	2462	Ant2	18.961
NVNT	ax40	2422	Ant1	37.424
NVNT	ax40	2422	Ant2	37.406
NVNT	ax40	2437	Ant1	37.388
NVNT	ax40	2437	Ant2	37.43
NVNT	ax40	2452	Ant1	36.998
NVNT	ax40	2452	Ant2	37.466
NVNT	n20	2412	Ant1	17.8
NVNT	n20	2412	Ant2	17.698
NVNT	n20	2437	Ant1	17.701
NVNT	n20	2437	Ant2	17.716
NVNT	n20	2462	Ant1	17.737
NVNT	n20	2462	Ant2	17.791
NVNT	n40	2422	Ant1	36.032
NVNT	n40	2422	Ant2	35.96
NVNT	n40	2437	Ant1	35.96
NVNT	n40	2437	Ant2	35.966
NVNT	n40	2452	Ant1	35.624
NVNT	n40	2452	Ant2	35.978



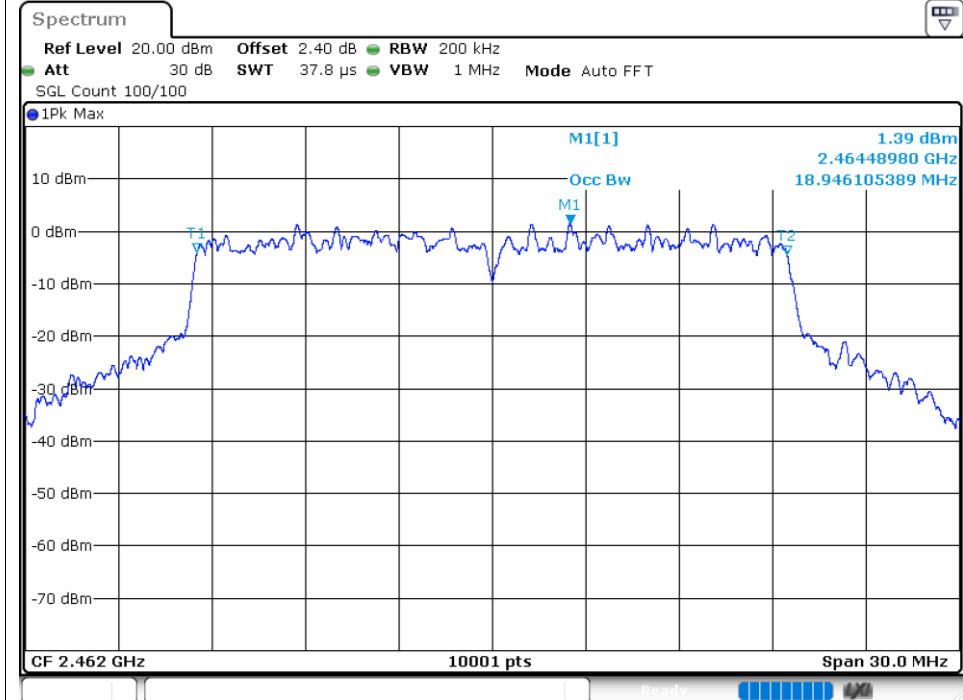
OBW NVNT ax20 2437MHz Ant1



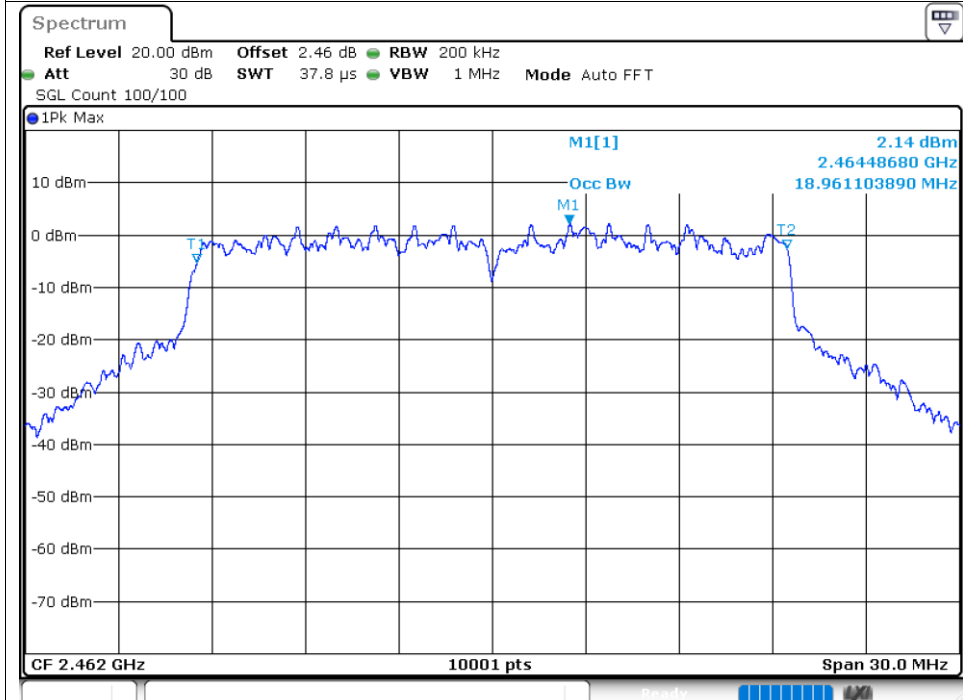
OBW NVNT ax20 2437MHz Ant2



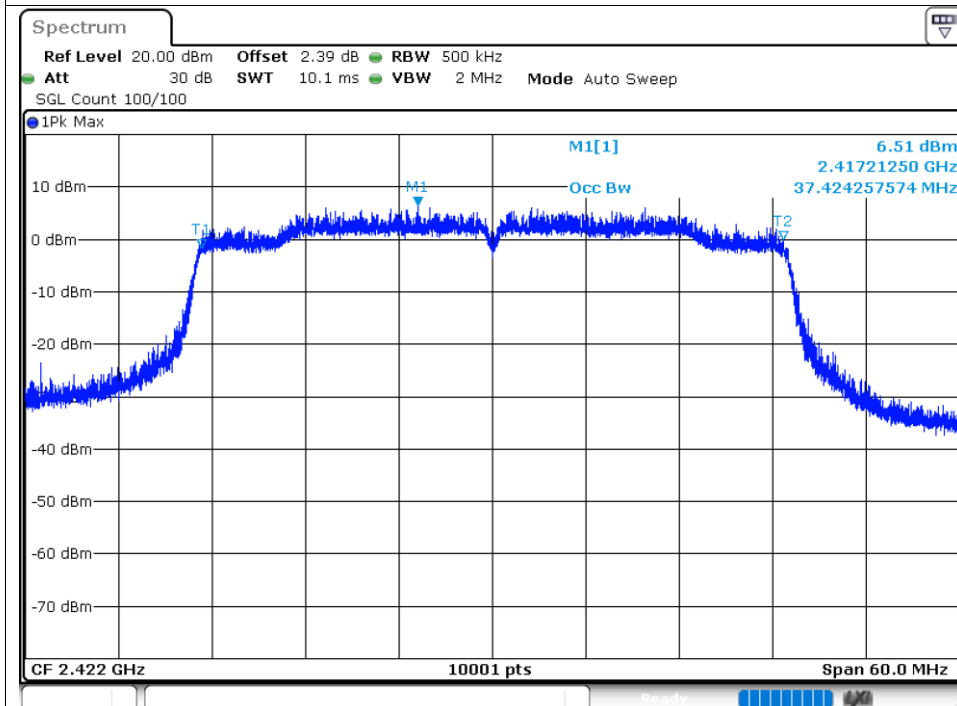
OBW NVNT ax20 2462MHz Ant1



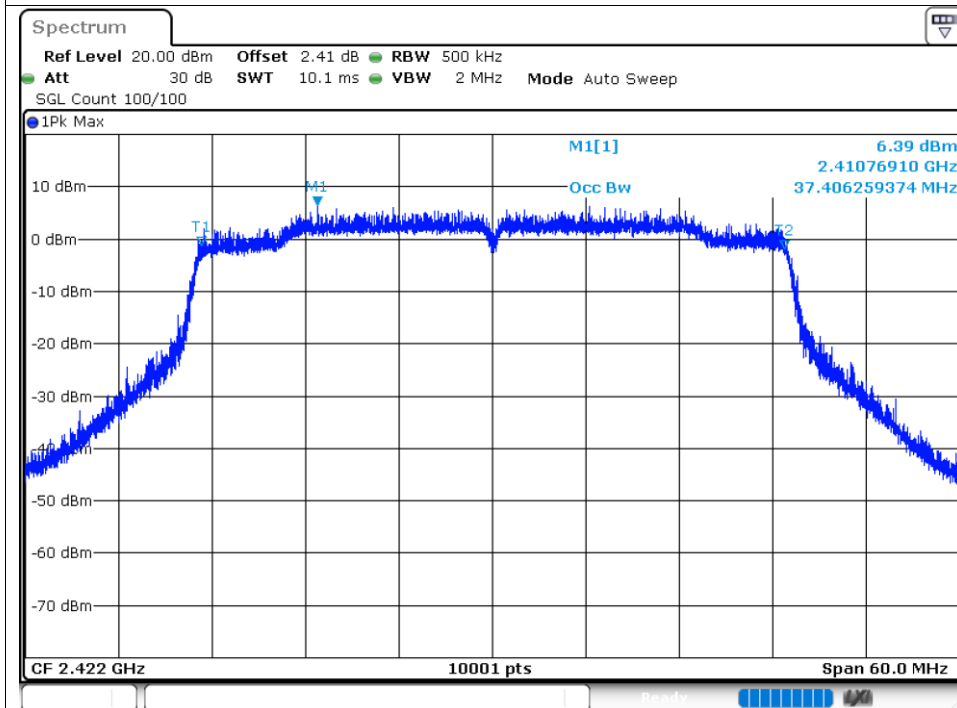
OBW NVNT ax20 2462MHz Ant2



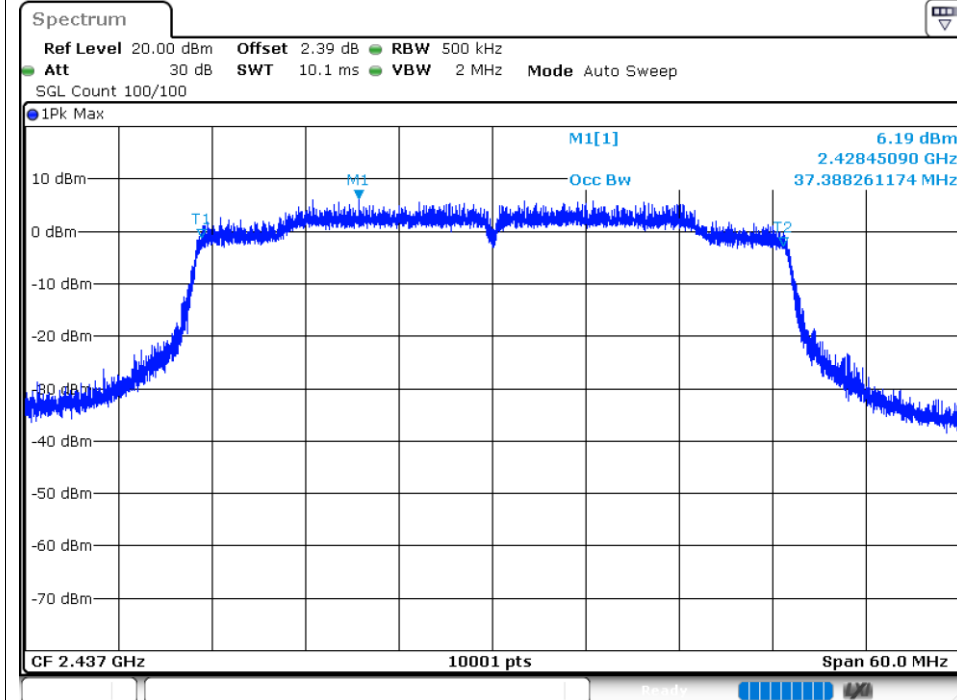
OBW NVNT ax40 2422MHz Ant1



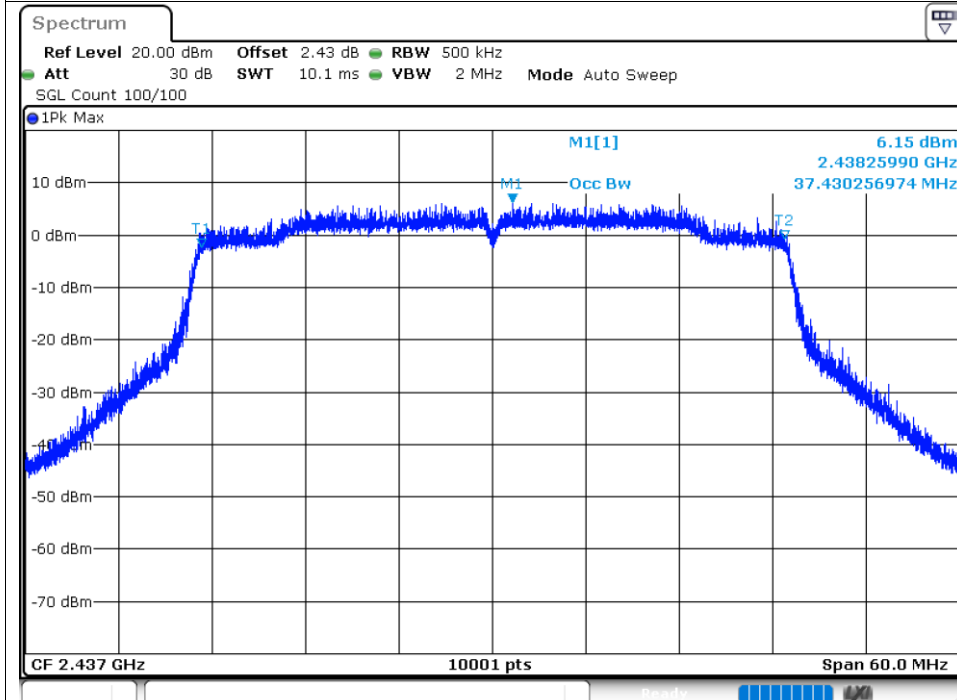
OBW NVNT ax40 2422MHz Ant2



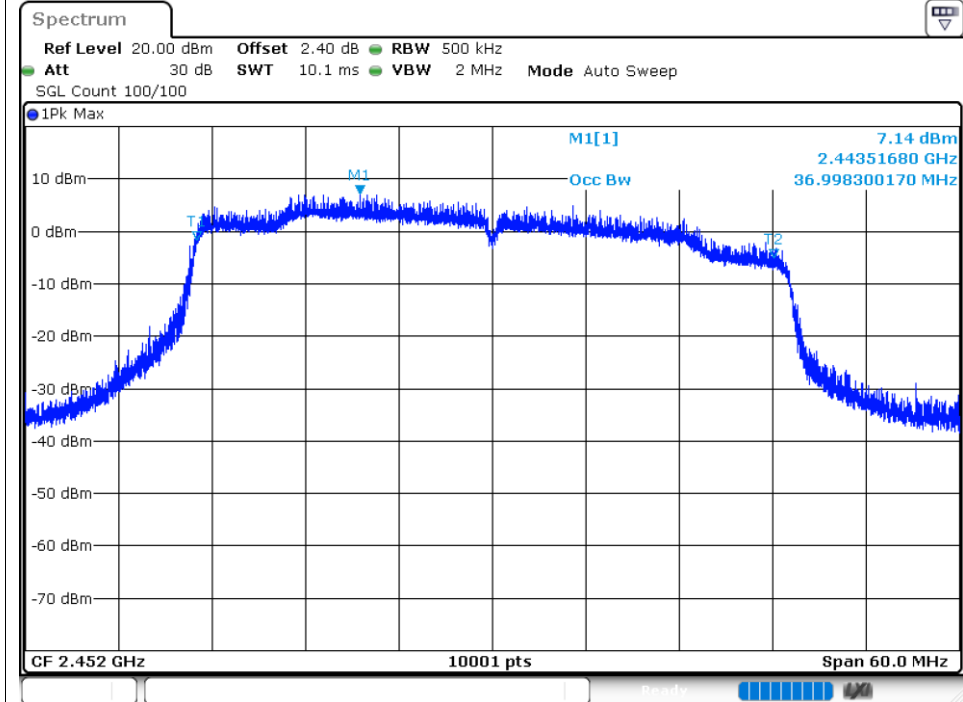
OBW NVNT ax40 2437MHz Ant1



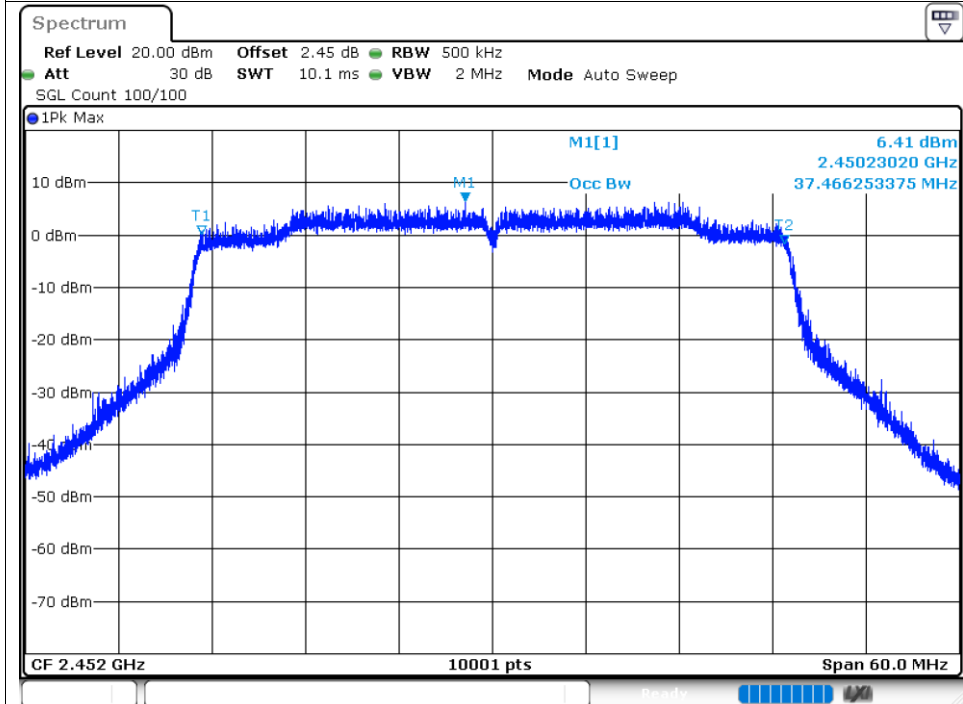
OBW NVNT ax40 2437MHz Ant2



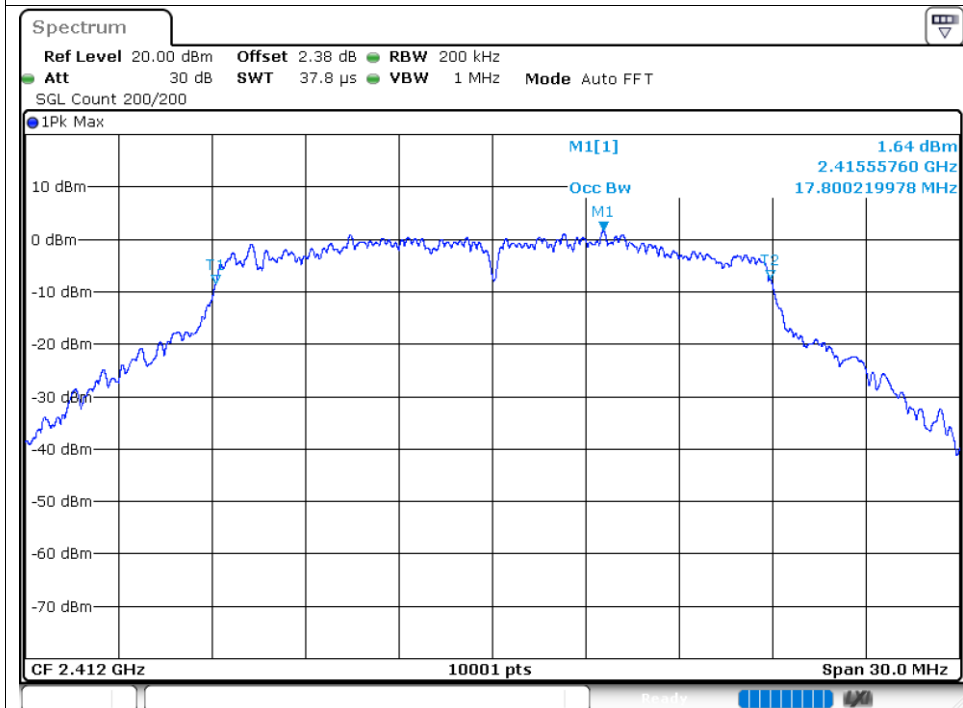
OBW NVNT ax40 2452MHz Ant1



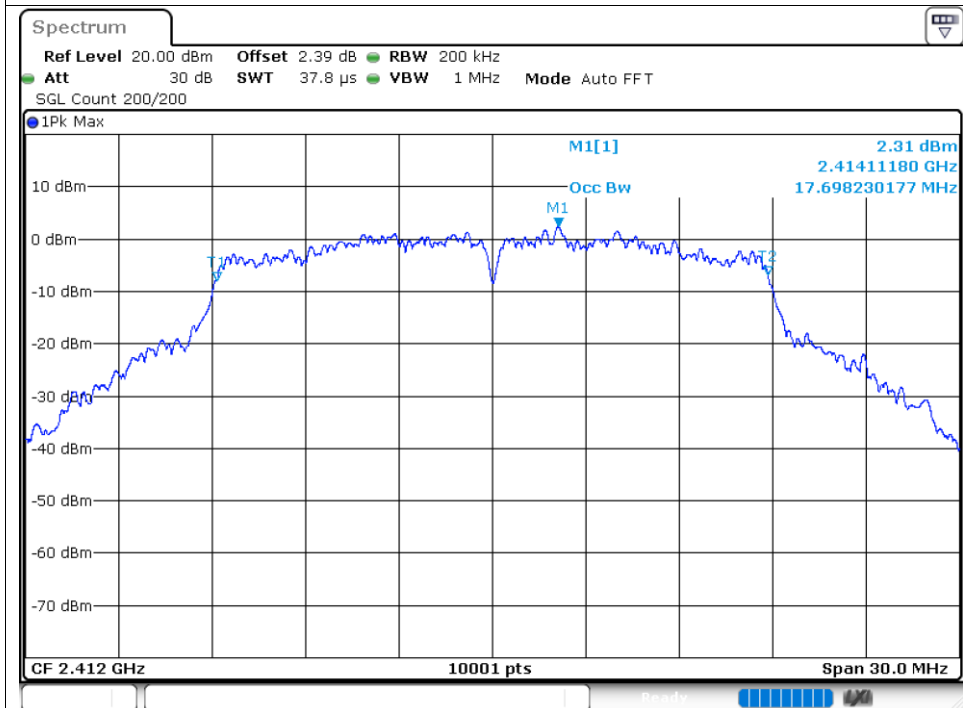
OBW NVNT ax40 2452MHz Ant2



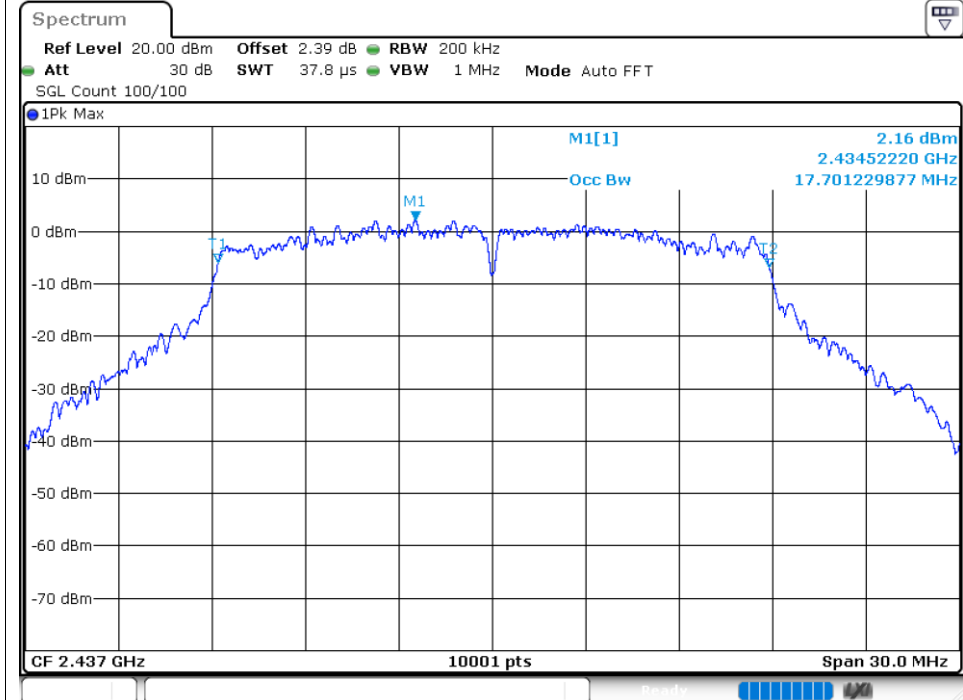
OBW NVNT n20 2412MHz Ant1



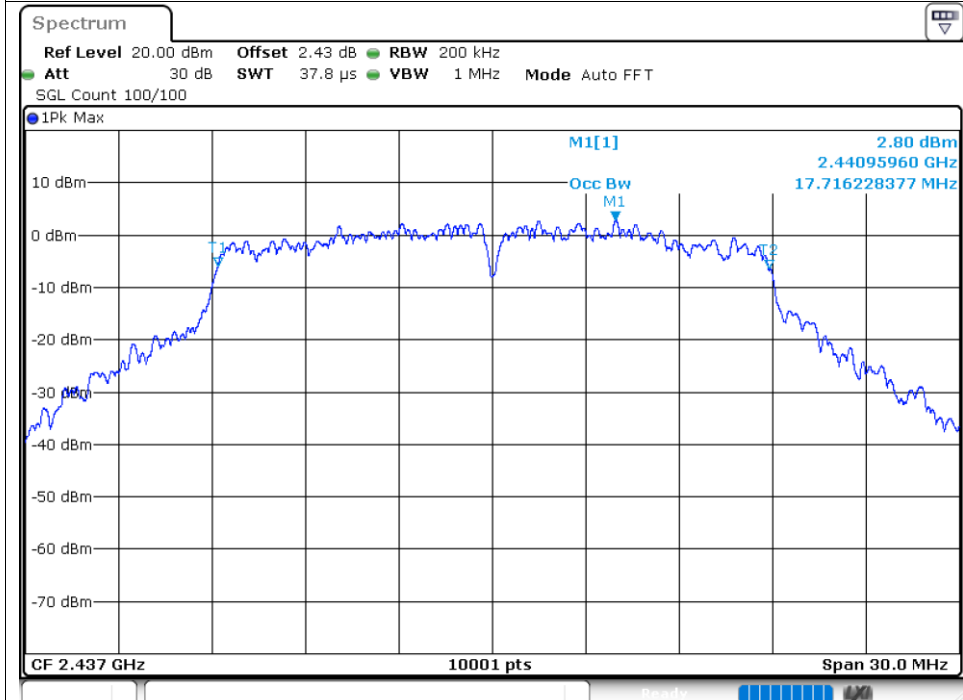
OBW NVNT n20 2412MHz Ant2



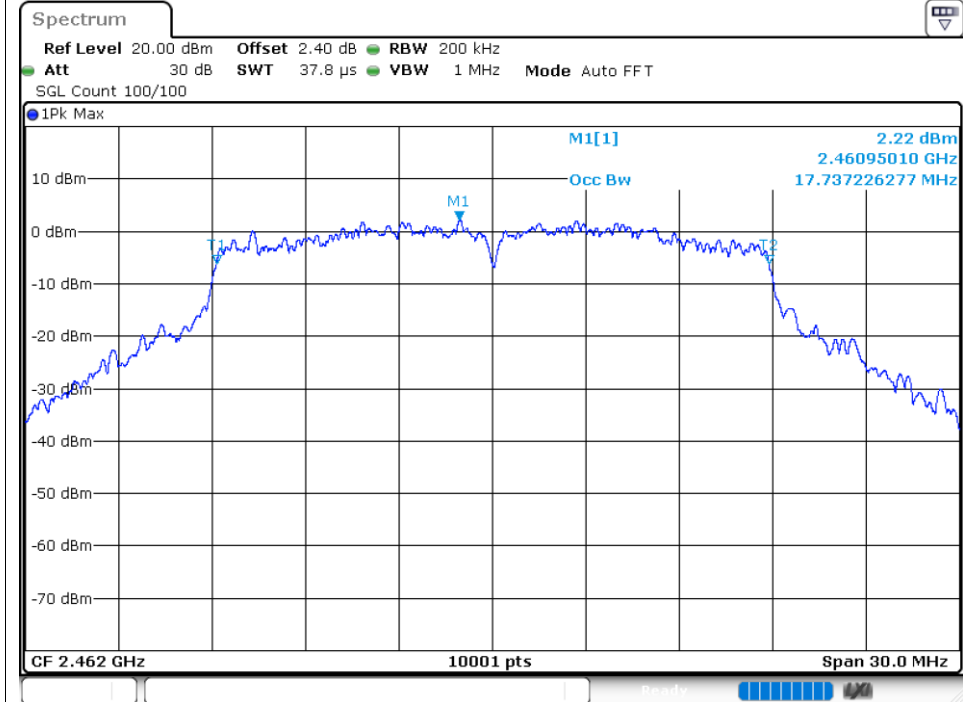
OBW NVNT n20 2437MHz Ant1



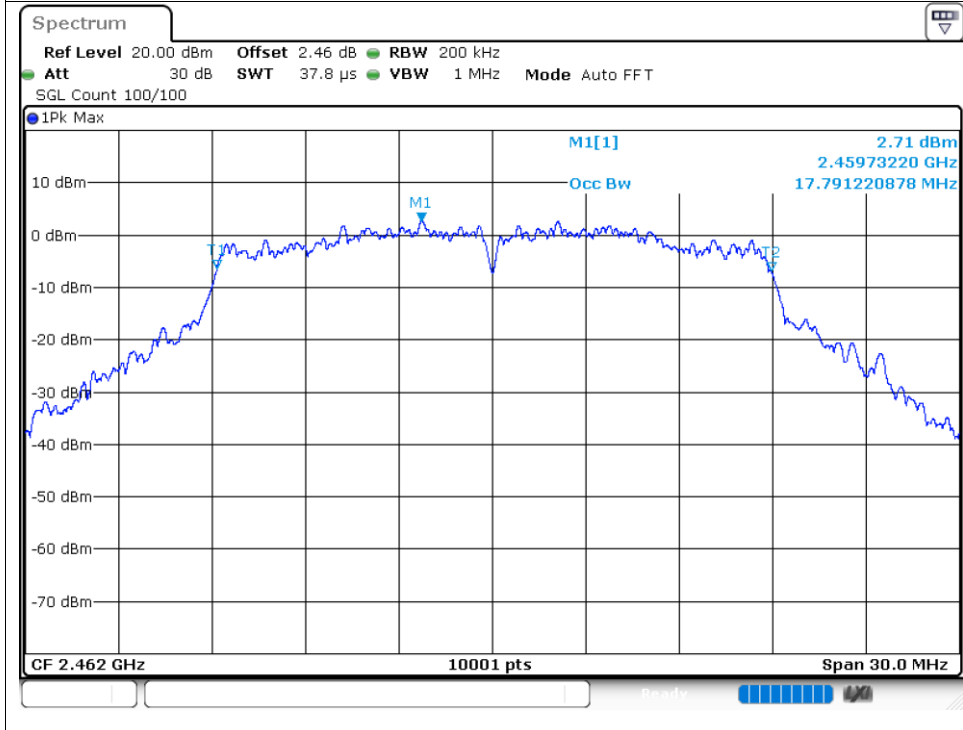
OBW NVNT n20 2437MHz Ant2



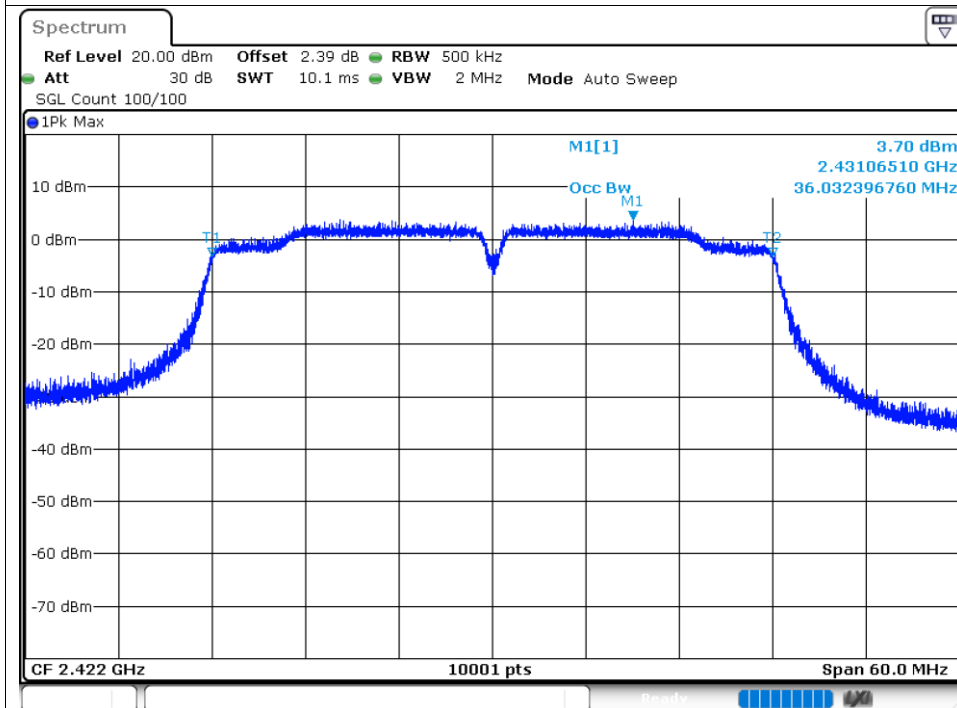
OBW NVNT n20 2462MHz Ant1



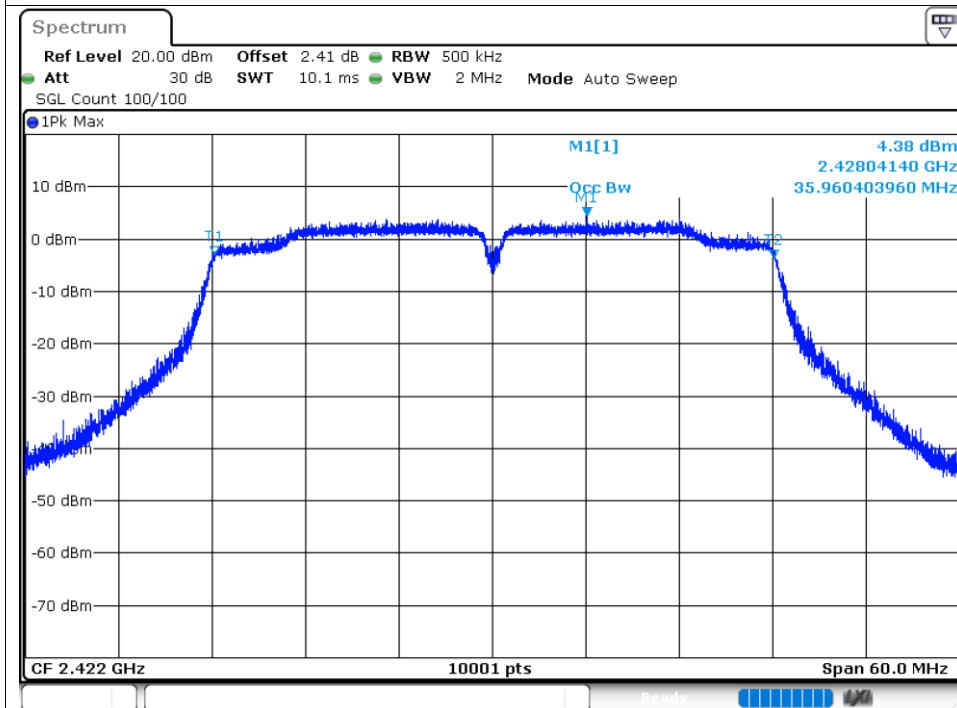
OBW NVNT n20 2462MHz Ant2



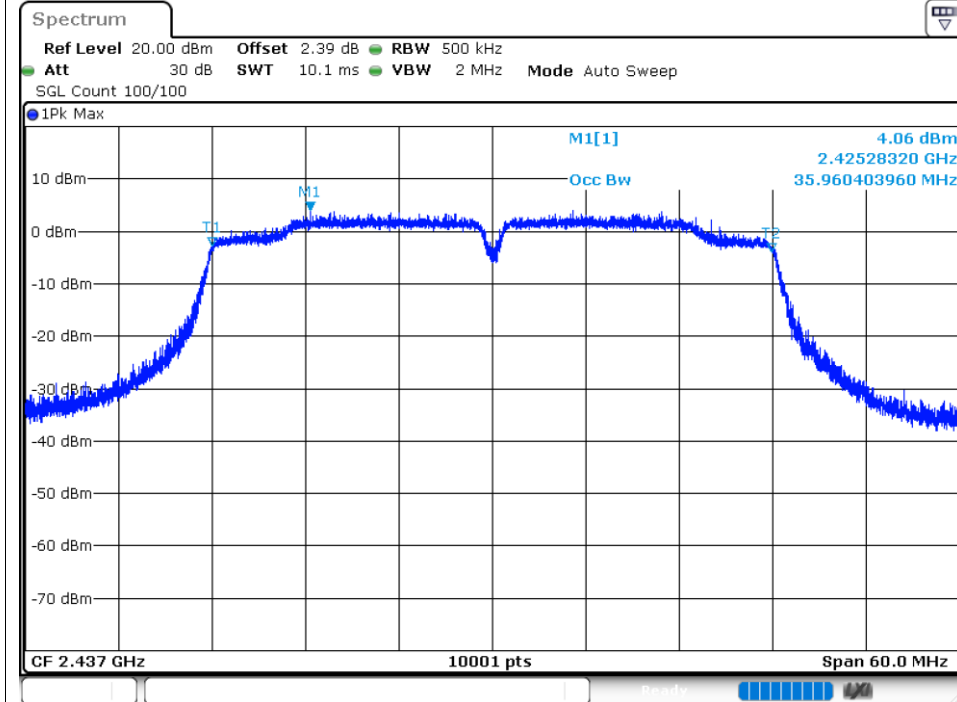
OBW NVNT n40 2422MHz Ant1



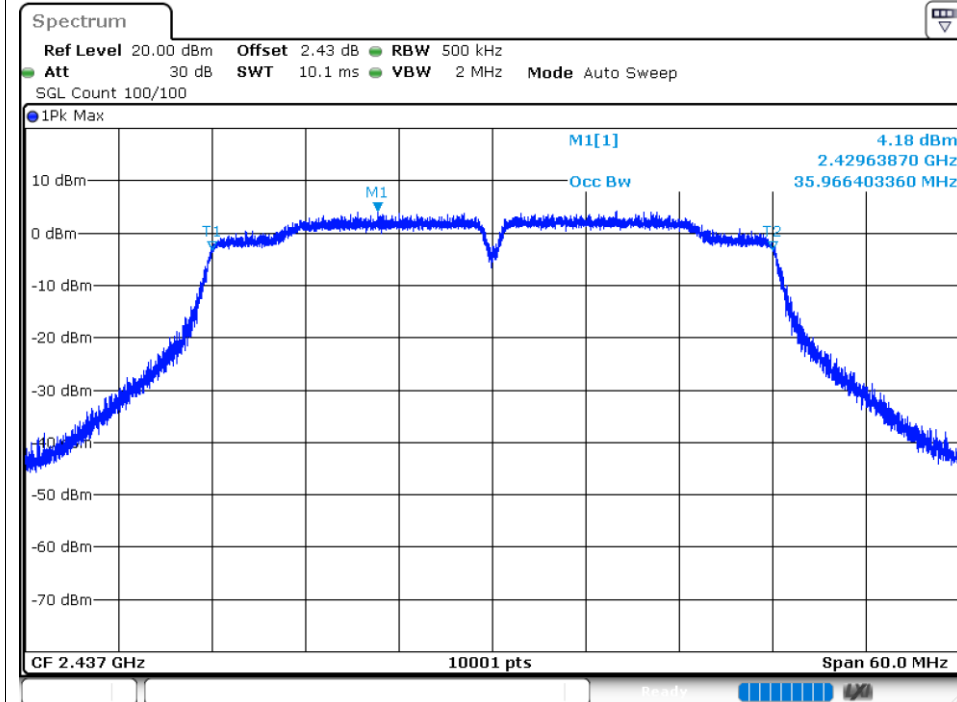
OBW NVNT n40 2422MHz Ant2



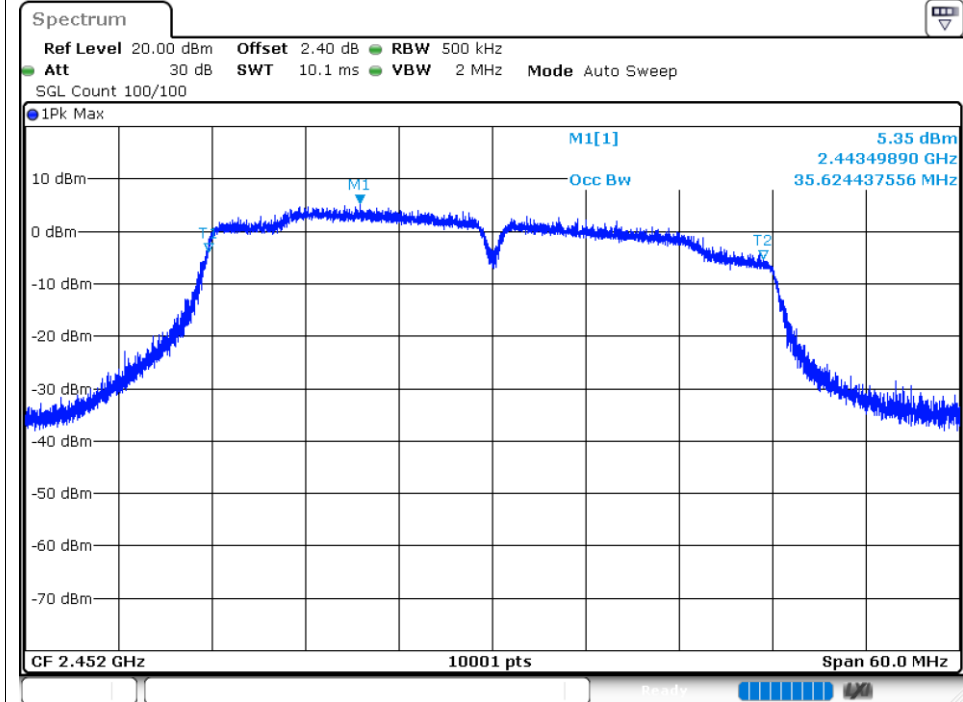
OBW NVNT n40 2437MHz Ant1



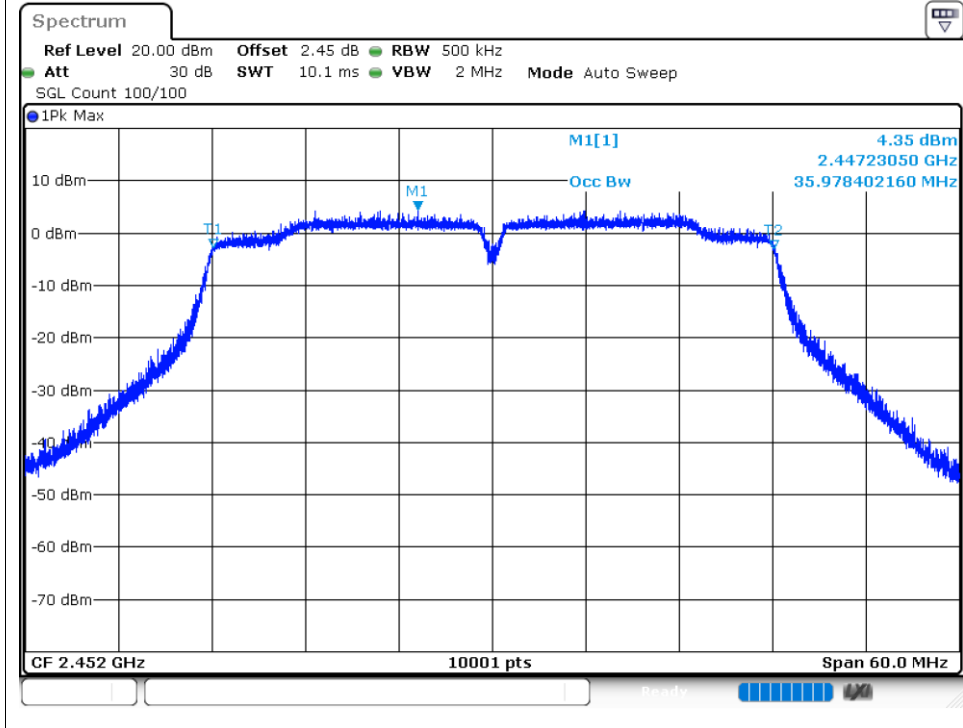
OBW NVNT n40 2437MHz Ant2



OBW NVNT n40 2452MHz Ant1

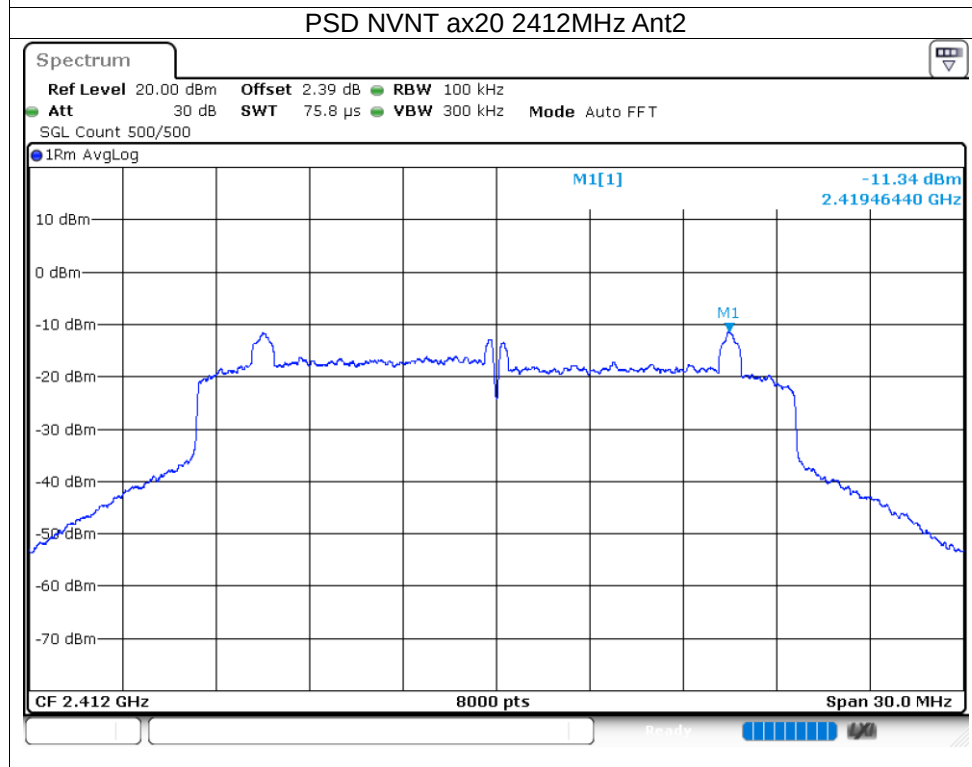
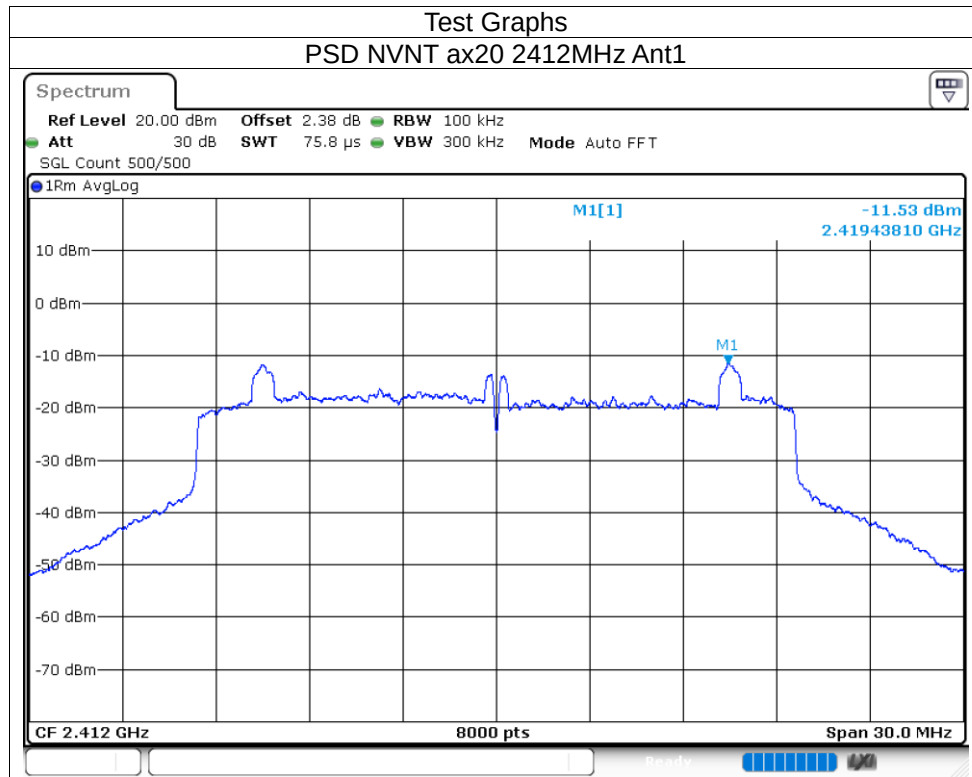


OBW NVNT n40 2452MHz Ant2

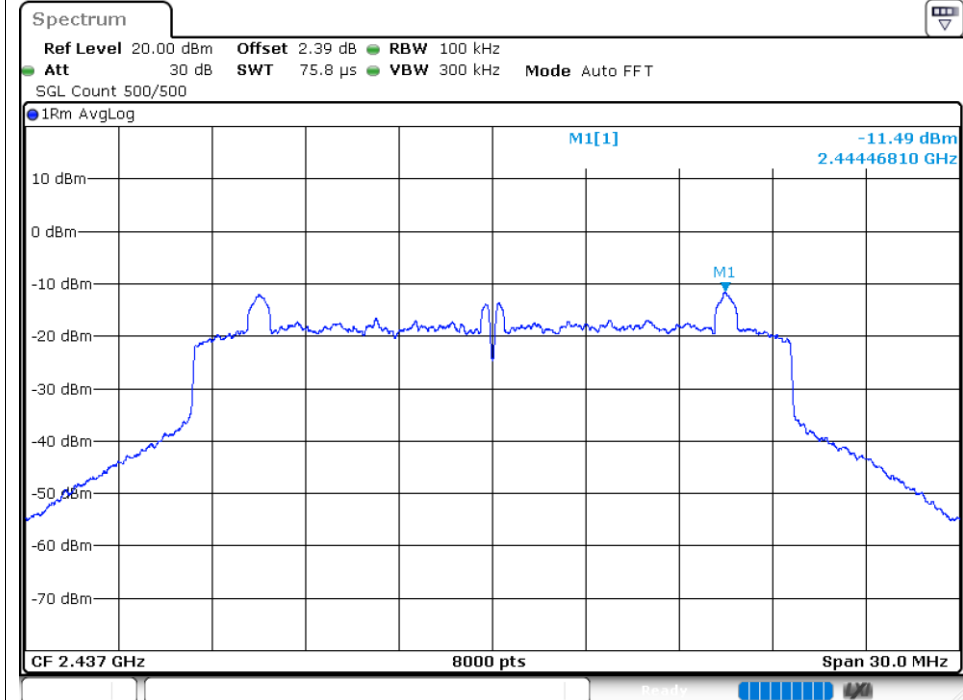


8.2.5 Maximum Power Spectral Density Level

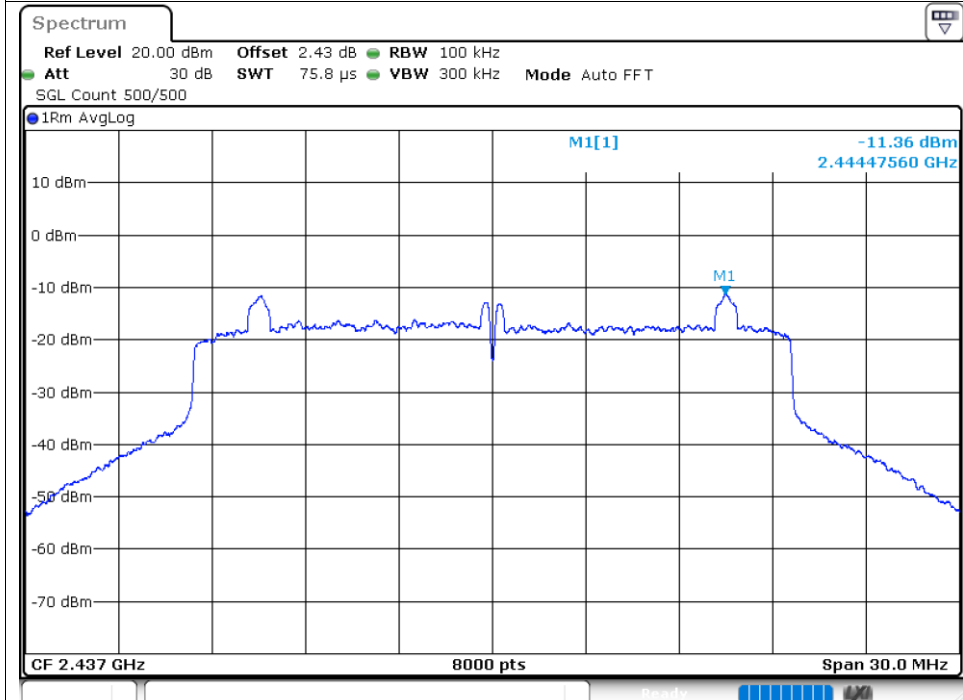
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant1	-11.53	0.43	-11.1	8	Pass
NVNT	ax20	2412	Ant2	-11.34	0.43	-10.91	8	Pass
NVNT	ax20	2412	Sum	-8.42	0.43	-7.99	8	Pass
NVNT	ax20	2437	Ant1	-11.49	0.43	-11.06	8	Pass
NVNT	ax20	2437	Ant2	-11.36	0.43	-10.93	8	Pass
NVNT	ax20	2437	Sum	-8.41	0.43	-7.98	8	Pass
NVNT	ax20	2462	Ant1	-12.1	0.43	-11.67	8	Pass
NVNT	ax20	2462	Ant2	-11.38	0.43	-10.95	8	Pass
NVNT	ax20	2462	Sum	-8.71	0.43	-8.28	8	Pass
NVNT	ax40	2422	Ant1	-12.65	0.02	-12.63	8	Pass
NVNT	ax40	2422	Ant2	-12.52	0.02	-12.5	8	Pass
NVNT	ax40	2422	Sum	-9.57	0.02	-9.55	8	Pass
NVNT	ax40	2437	Ant1	-12.67	0.02	-12.65	8	Pass
NVNT	ax40	2437	Ant2	-12.4	0.02	-12.38	8	Pass
NVNT	ax40	2437	Sum	-9.52	0.02	-9.5	8	Pass
NVNT	ax40	2452	Ant1	-11.54	0.02	-11.52	8	Pass
NVNT	ax40	2452	Ant2	-12.57	0.02	-12.55	8	Pass
NVNT	ax40	2452	Sum	-9.01	0.02	-8.99	8	Pass
NVNT	n20	2412	Ant1	-9.14	0.02	-9.12	8	Pass
NVNT	n20	2412	Ant2	-8.89	0.02	-8.87	8	Pass
NVNT	n20	2412	Sum	-6	0.02	-5.98	8	Pass
NVNT	n20	2437	Ant1	-8.17	0.01	-8.16	8	Pass
NVNT	n20	2437	Ant2	-7.39	0.01	-7.38	8	Pass
NVNT	n20	2437	Sum	-4.75	0.01	-4.74	8	Pass
NVNT	n20	2462	Ant1	-7.83	0.02	-7.81	8	Pass
NVNT	n20	2462	Ant2	-7.81	0.02	-7.79	8	Pass
NVNT	n20	2462	Sum	-4.81	0.02	-4.79	8	Pass
NVNT	n40	2422	Ant1	-11.18	0.02	-11.16	8	Pass
NVNT	n40	2422	Ant2	-10.96	0.02	-10.94	8	Pass
NVNT	n40	2422	Sum	-8.06	0.02	-8.04	8	Pass
NVNT	n40	2437	Ant1	-10.87	0.02	-10.85	8	Pass
NVNT	n40	2437	Ant2	-10.69	0.02	-10.67	8	Pass
NVNT	n40	2437	Sum	-7.77	0.02	-7.75	8	Pass
NVNT	n40	2452	Ant1	-9.76	0.02	-9.74	8	Pass
NVNT	n40	2452	Ant2	-10.87	0.02	-10.85	8	Pass
NVNT	n40	2452	Sum	-7.27	0.02	-7.25	8	Pass



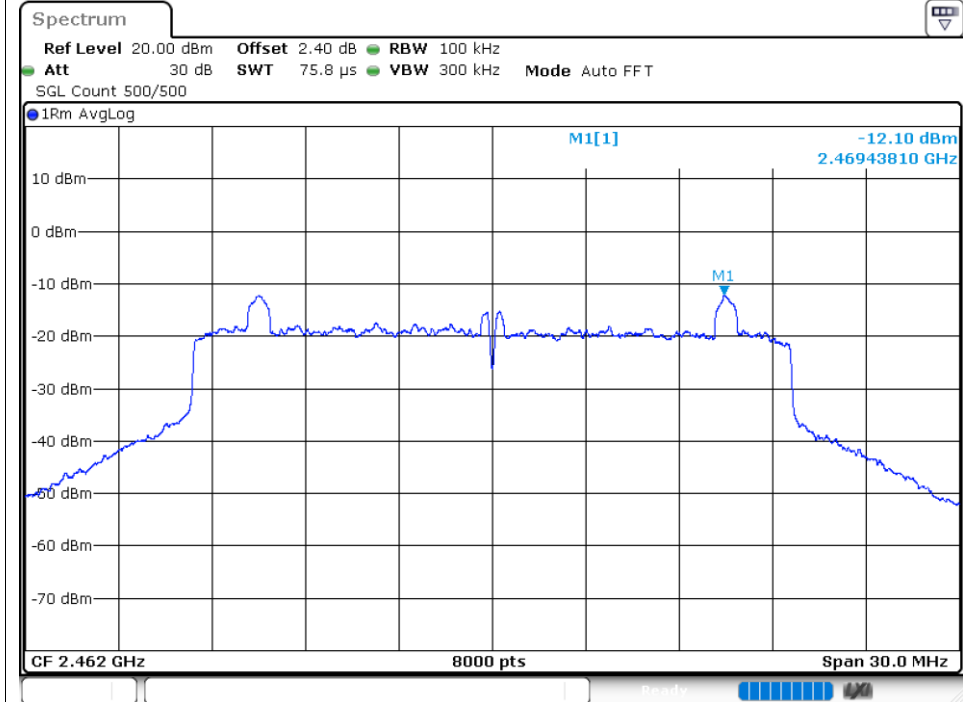
PSD NVNT ax20 2437MHz Ant1



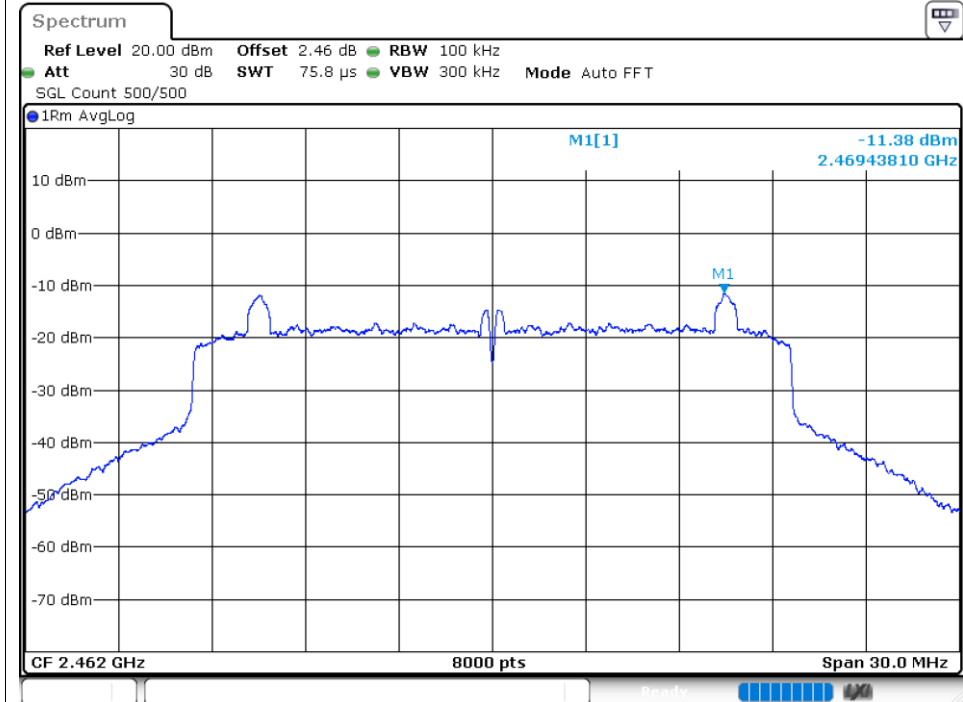
PSD NVNT ax20 2437MHz Ant2



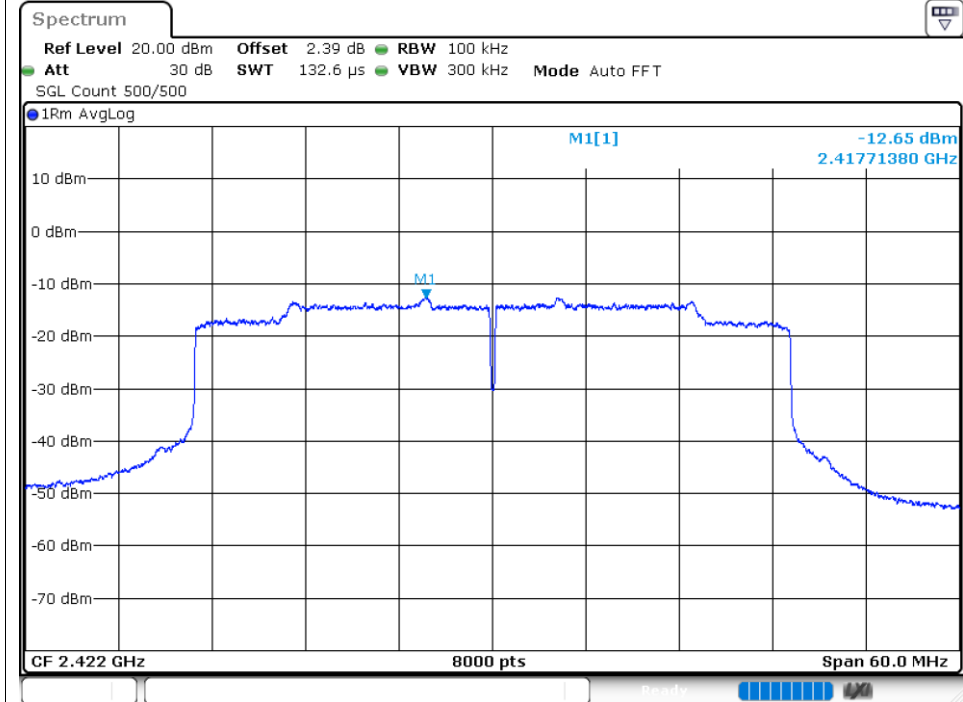
PSD NVNT ax20 2462MHz Ant1



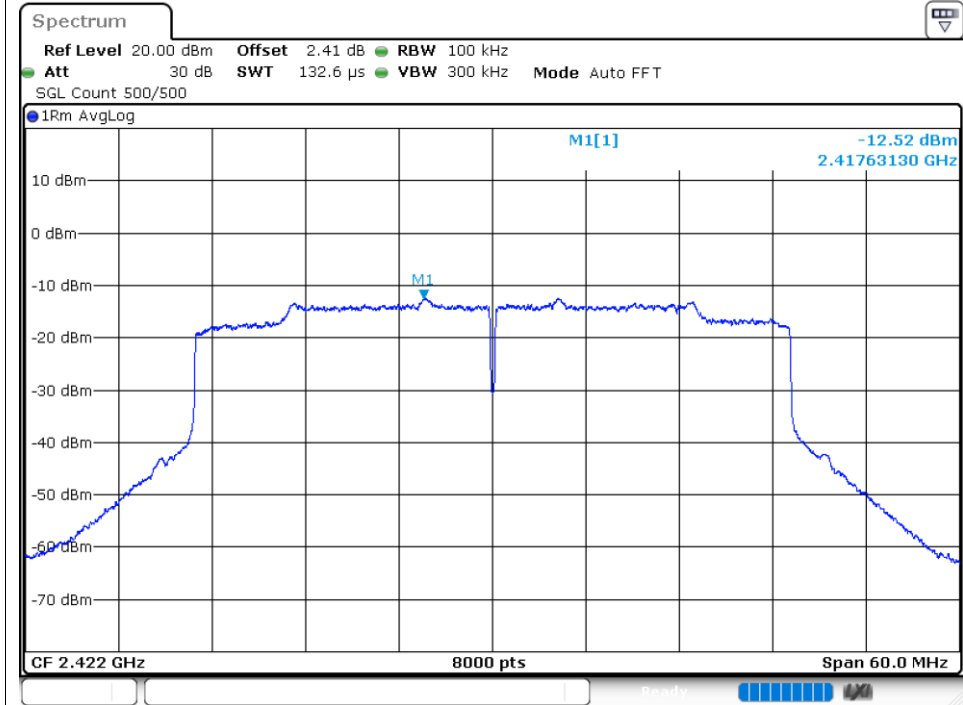
PSD NVNT ax20 2462MHz Ant2



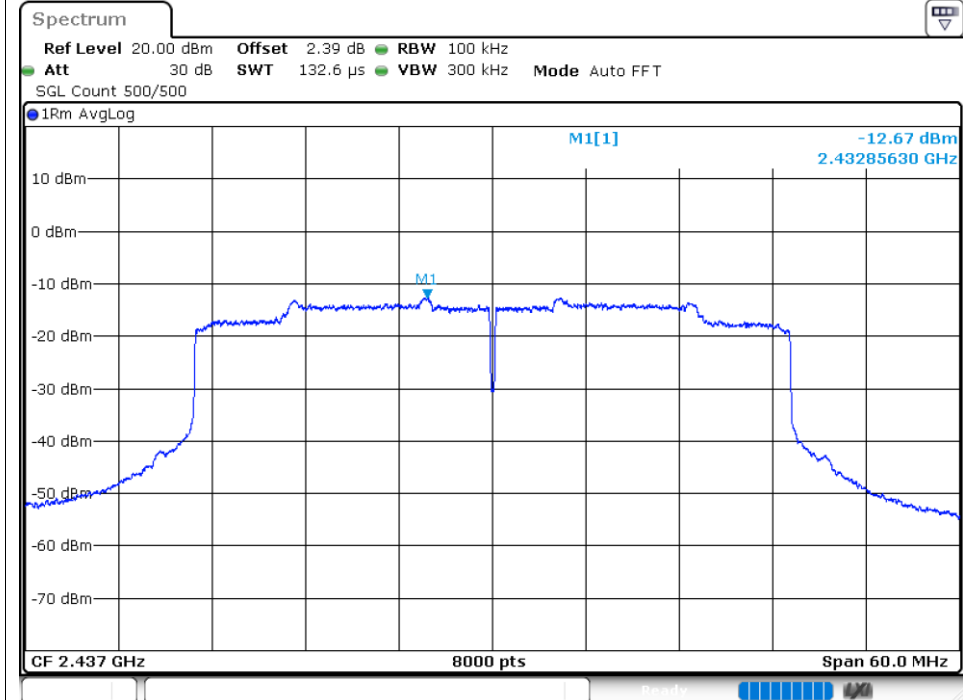
PSD NVNT ax40 2422MHz Ant1



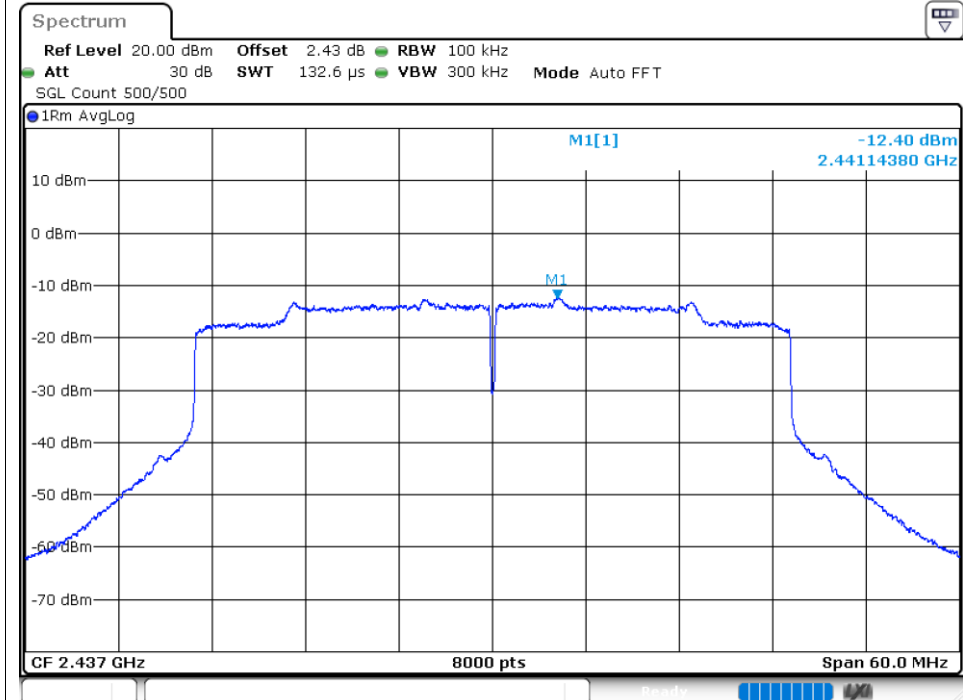
PSD NVNT ax40 2422MHz Ant2



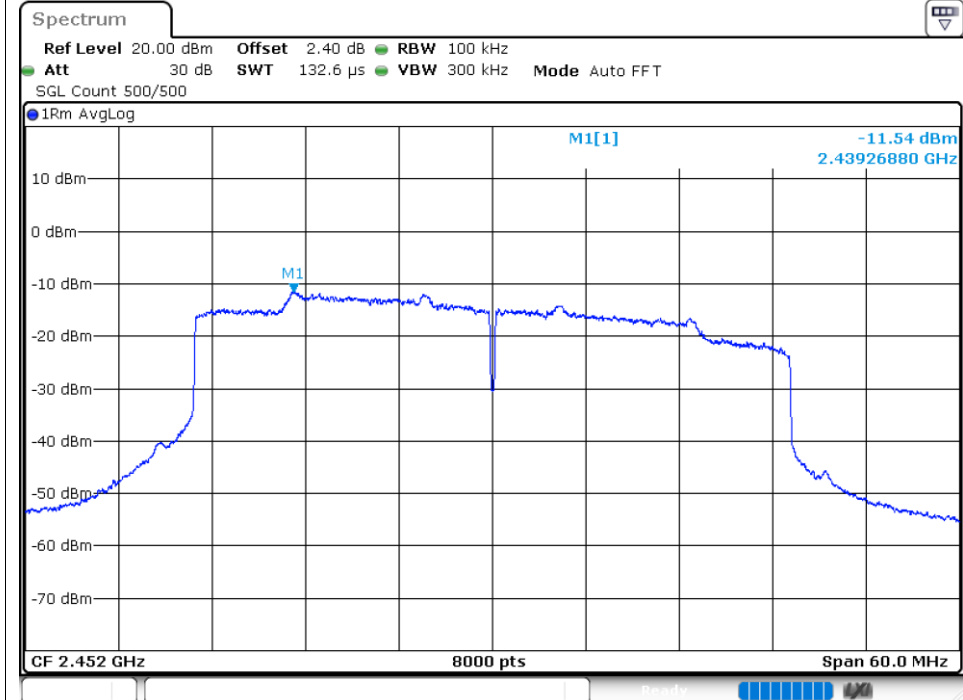
PSD NVNT ax40 2437MHz Ant1



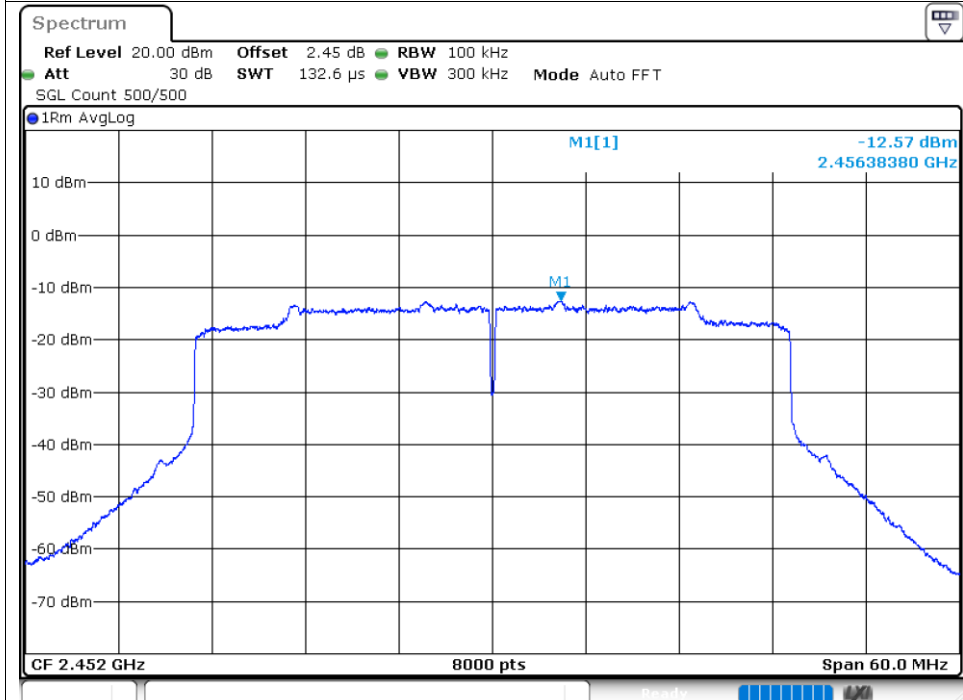
PSD NVNT ax40 2437MHz Ant2



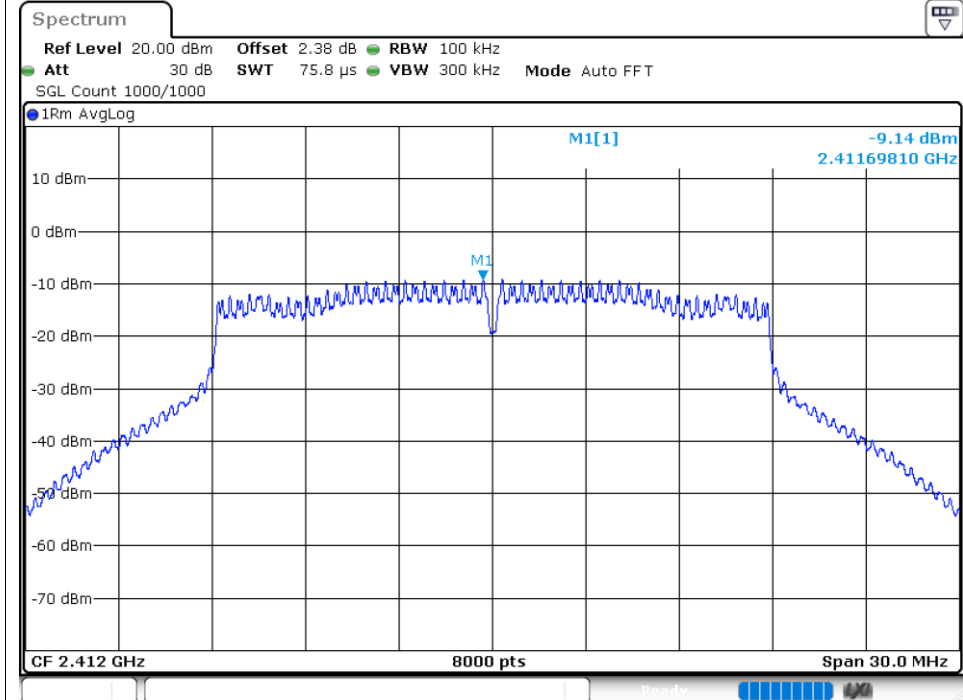
PSD NVNT ax40 2452MHz Ant1



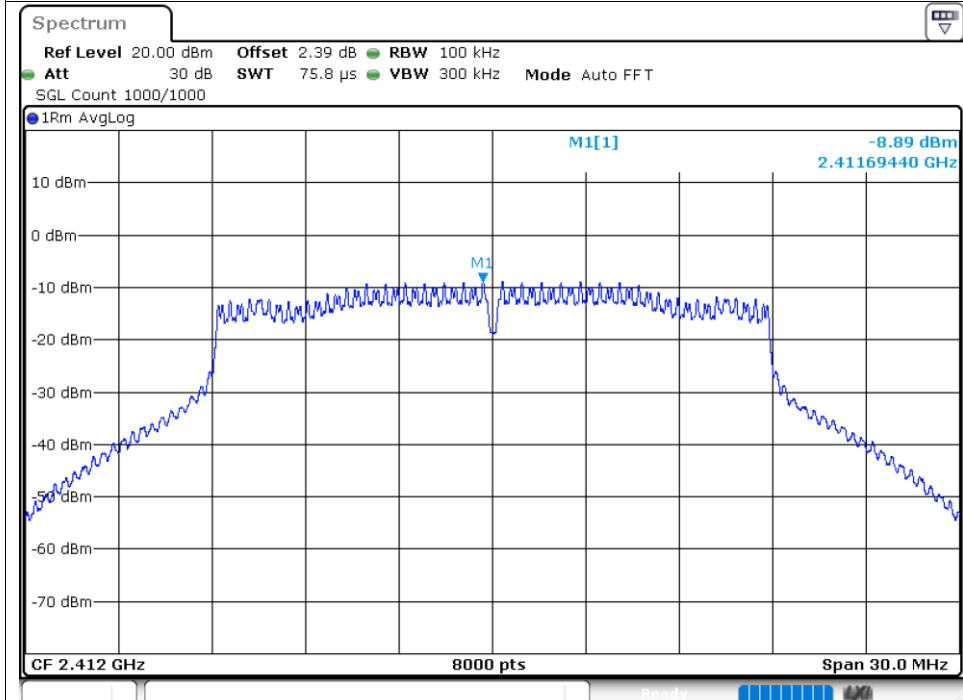
PSD NVNT ax40 2452MHz Ant2



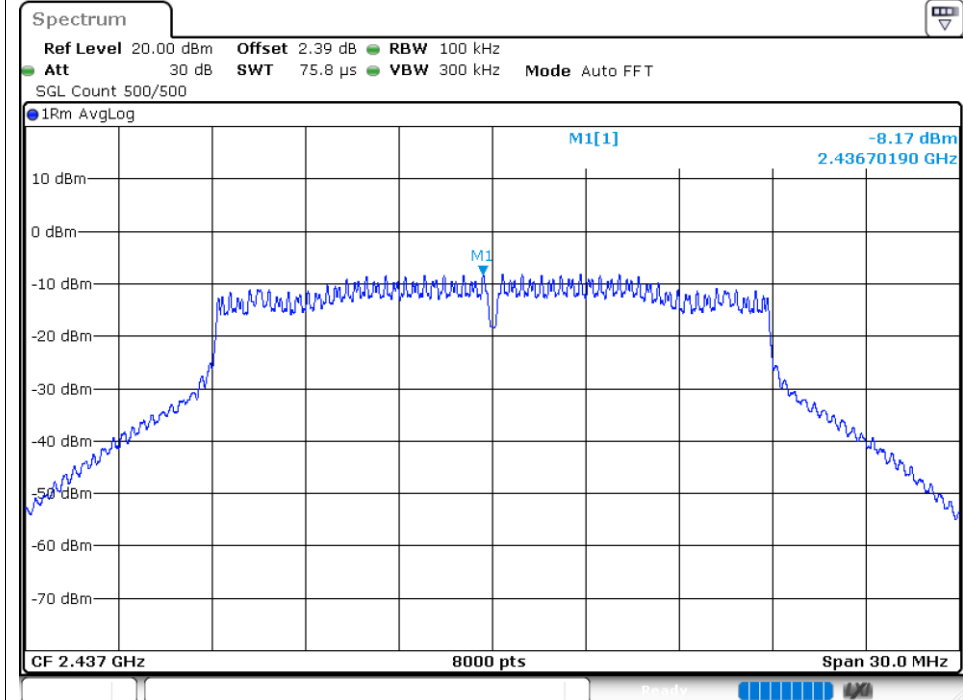
PSD NVNT n20 2412MHz Ant1



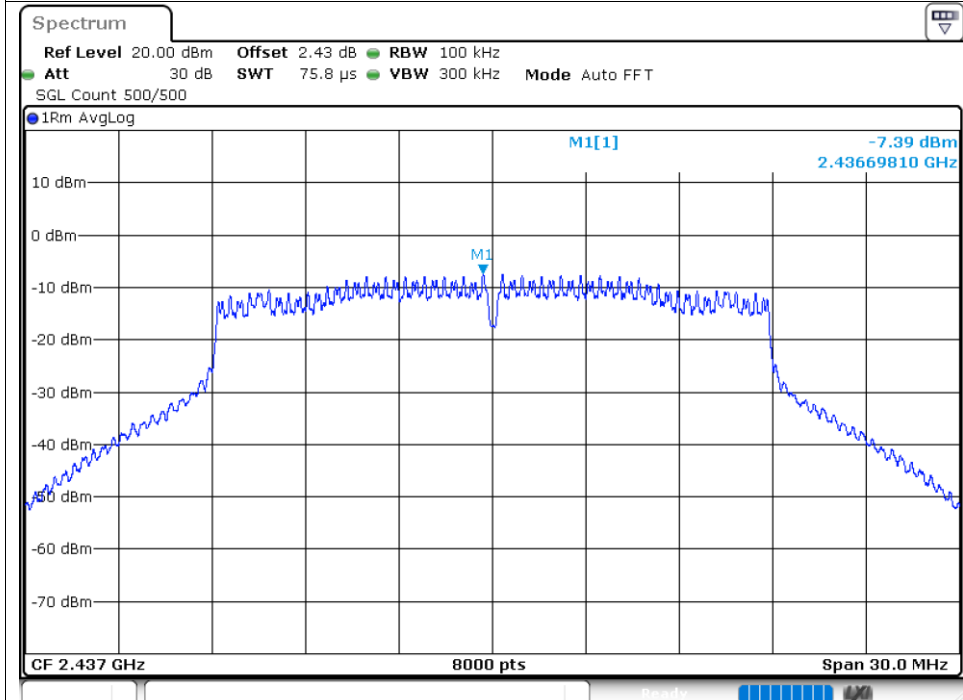
PSD NVNT n20 2412MHz Ant2



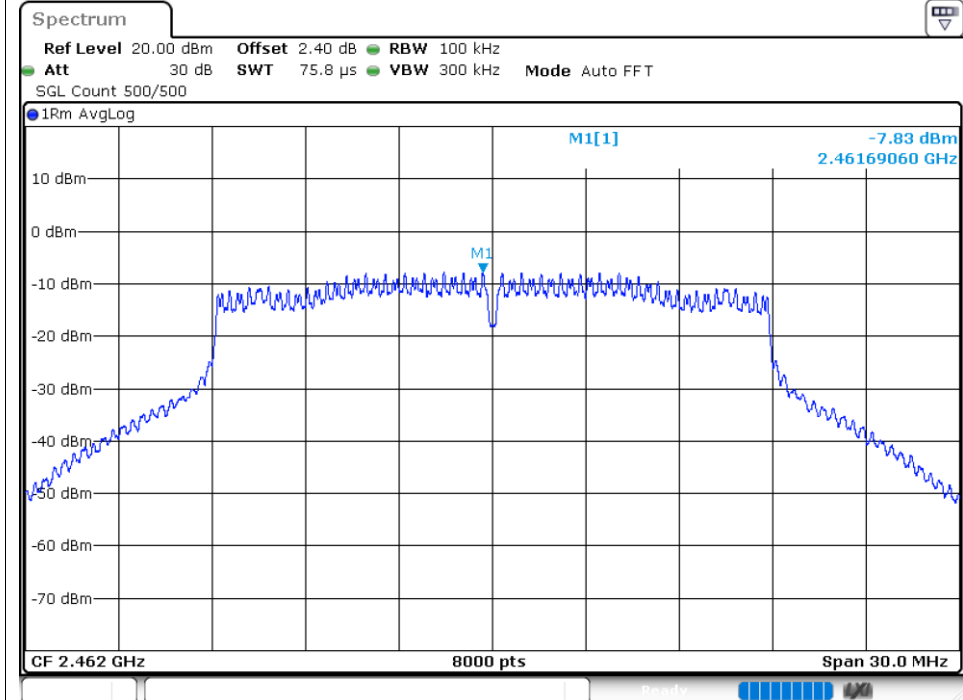
PSD NVNT n20 2437MHz Ant1



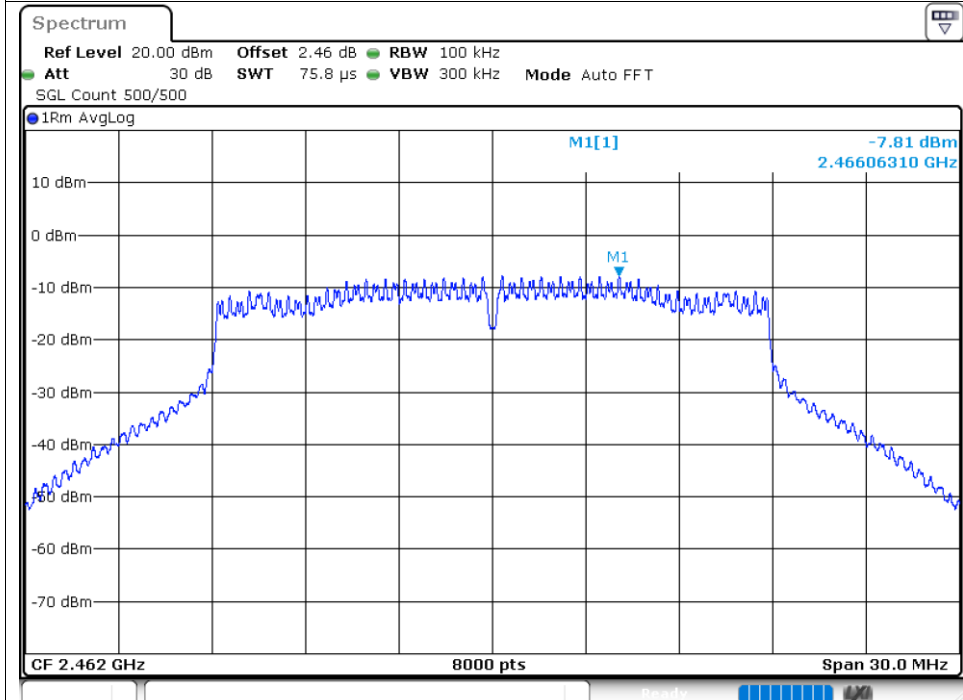
PSD NVNT n20 2437MHz Ant2



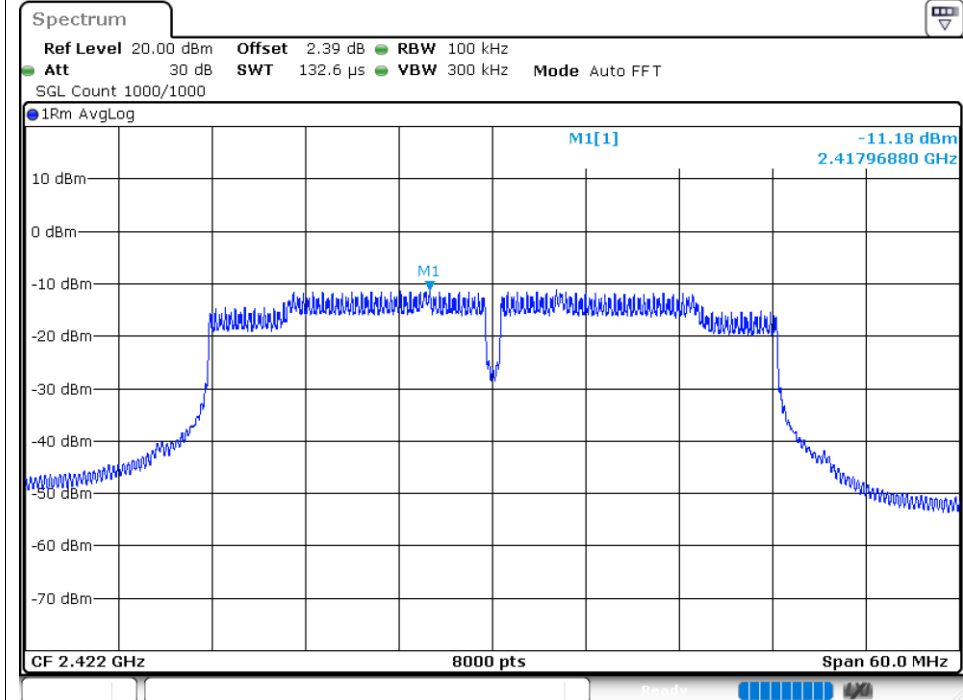
PSD NVNT n20 2462MHz Ant1



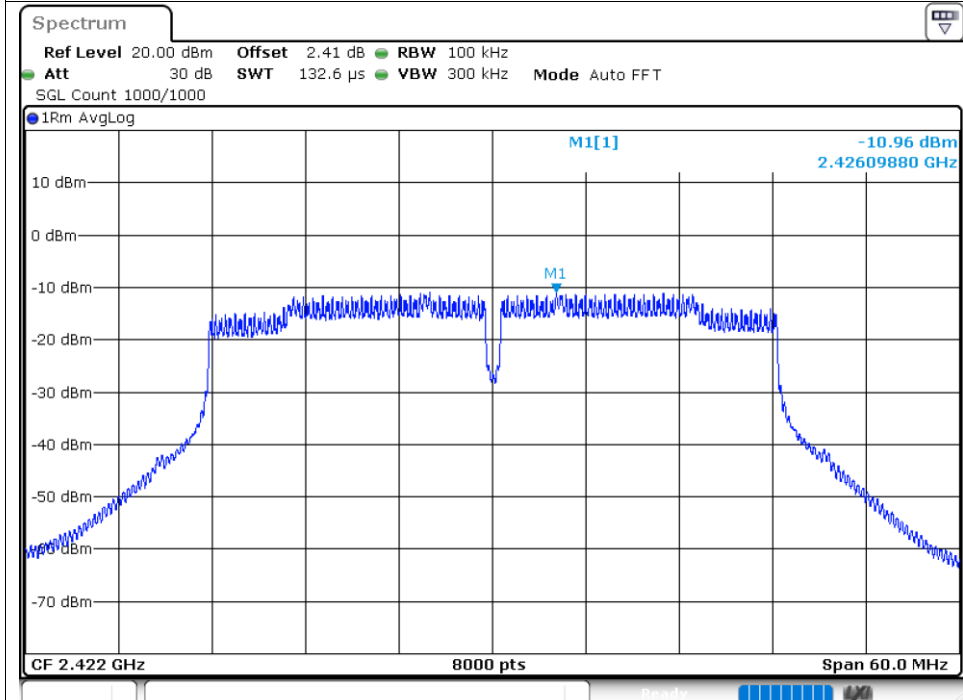
PSD NVNT n20 2462MHz Ant2



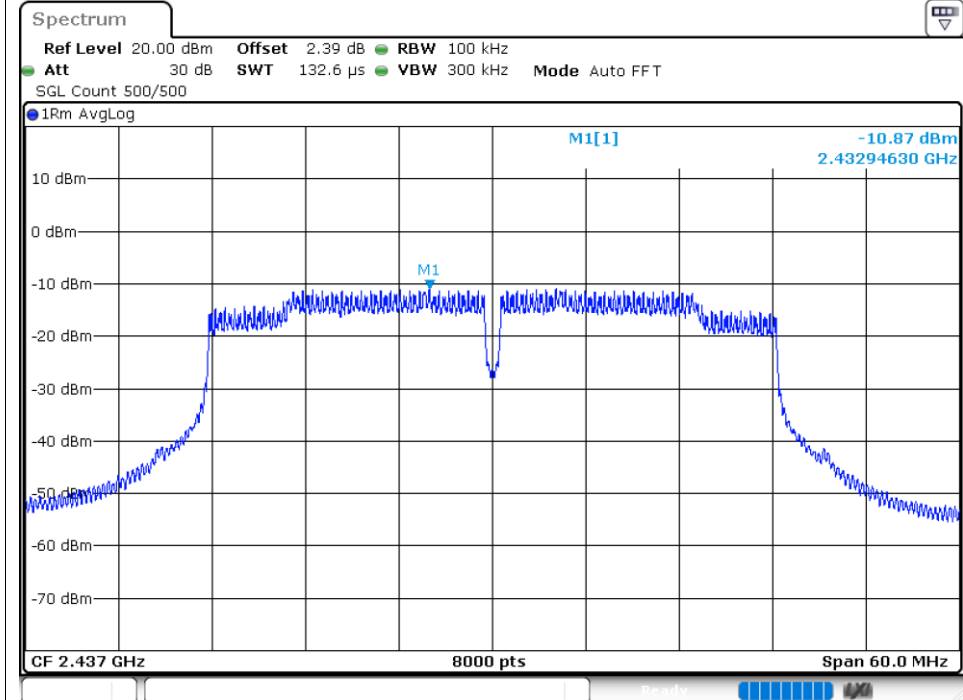
PSD NVNT n40 2422MHz Ant1



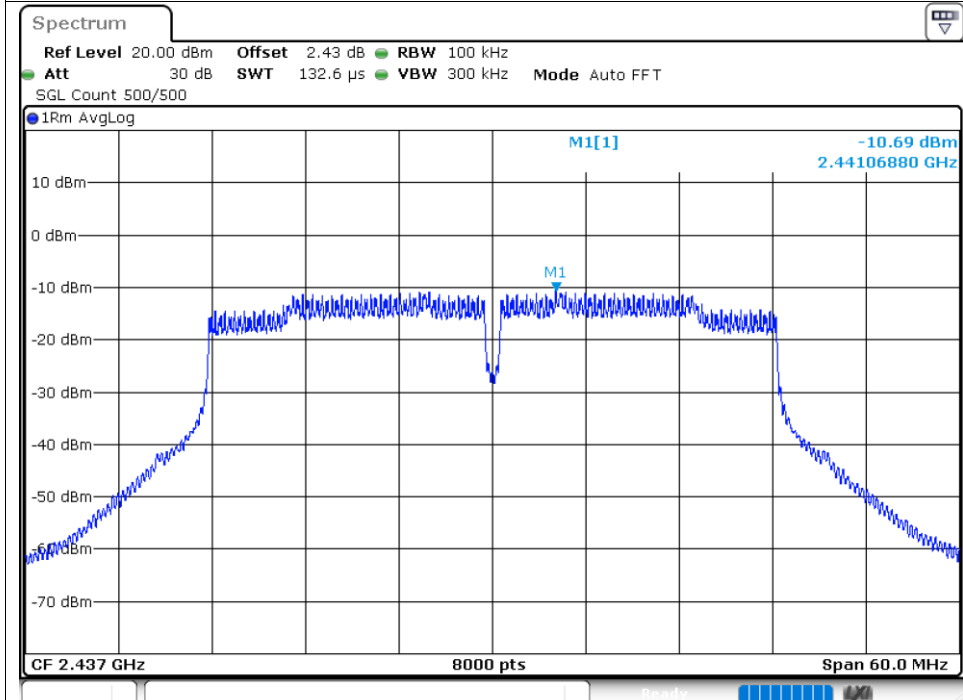
PSD NVNT n40 2422MHz Ant2



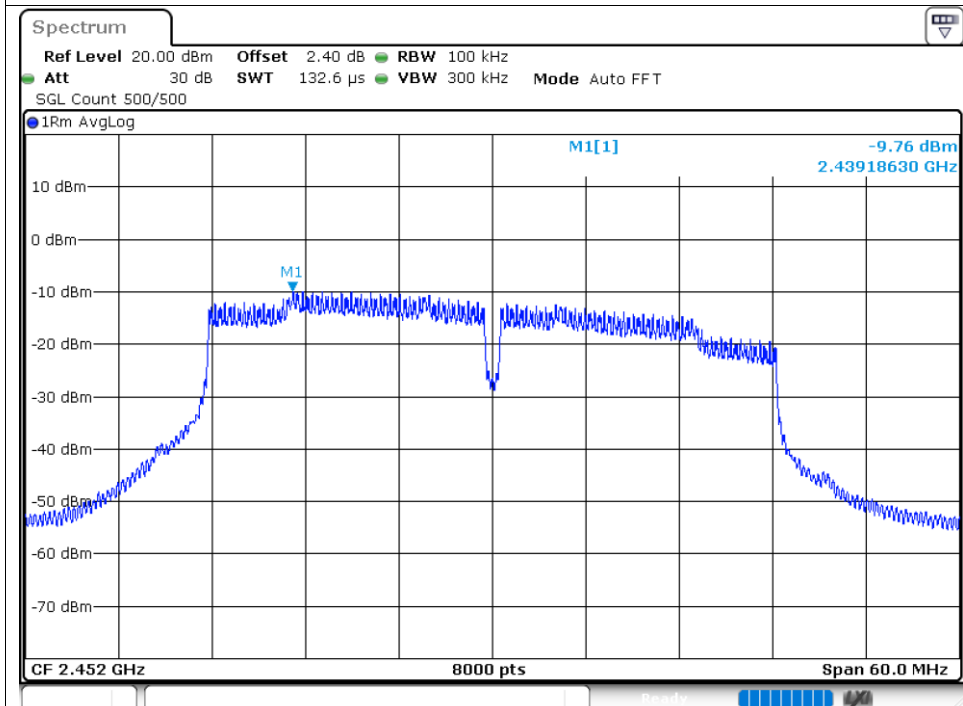
PSD NVNT n40 2437MHz Ant1



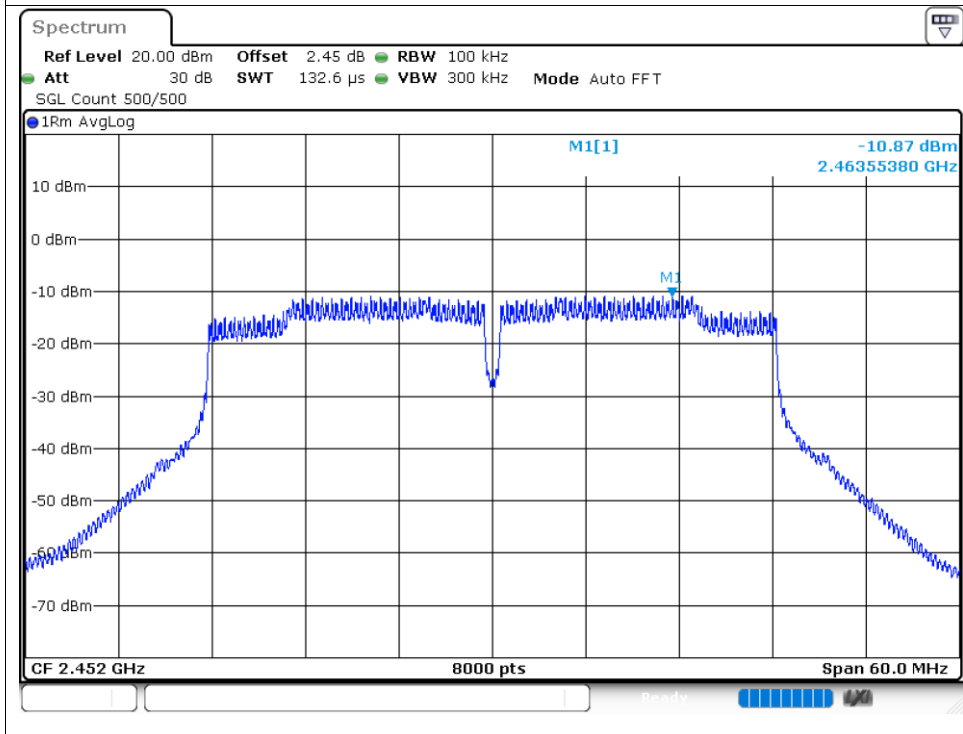
PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant1



PSD NVNT n40 2452MHz Ant2

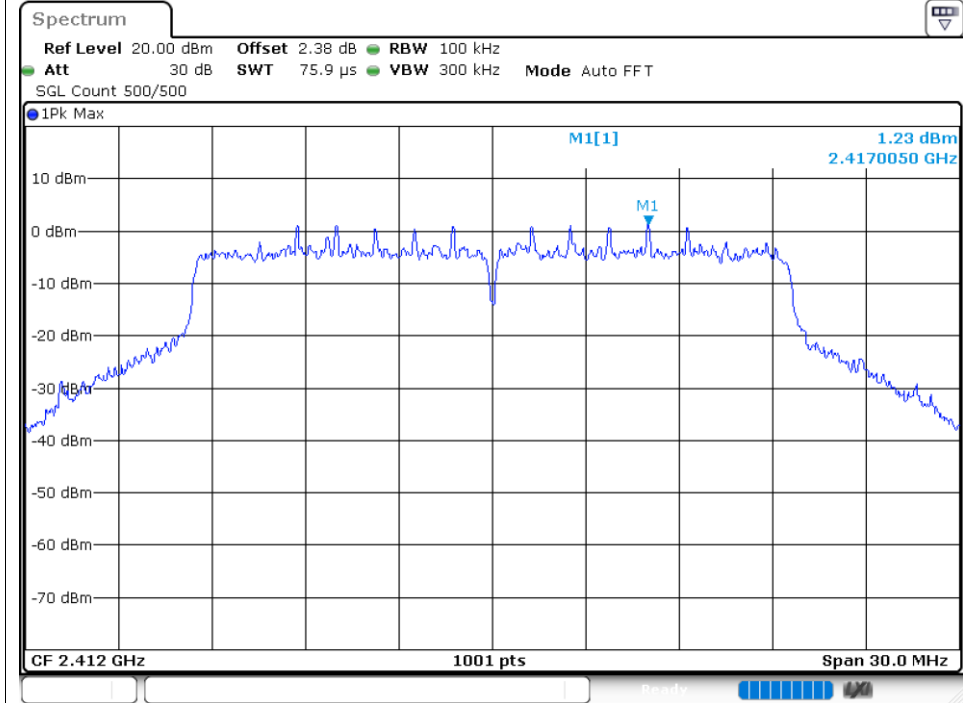


8.2.6 Band Edge

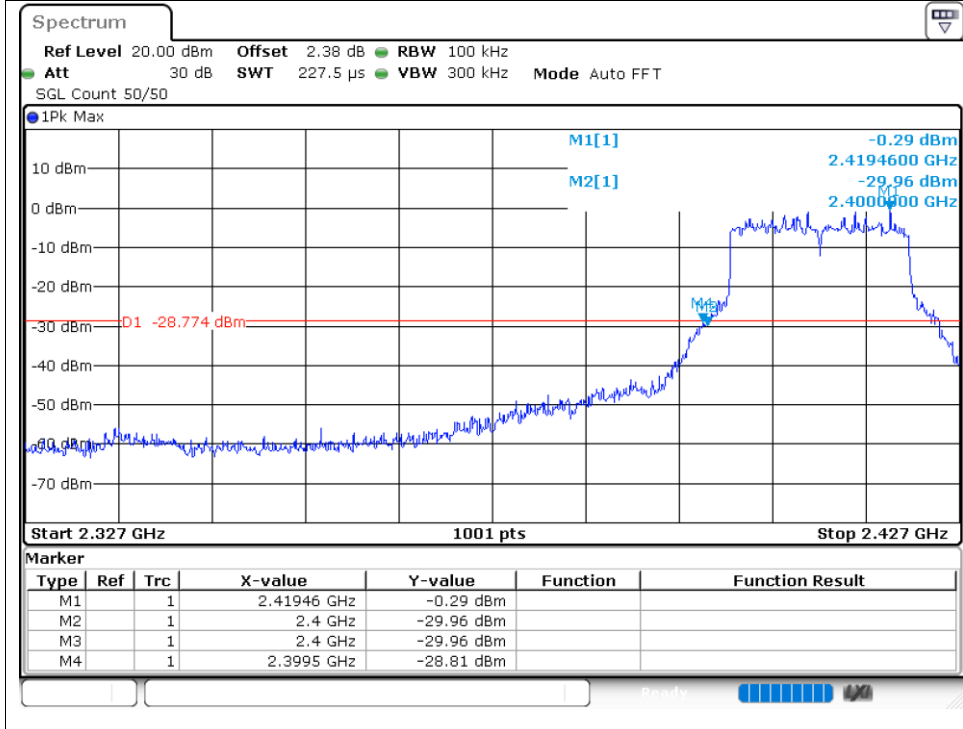
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax20	2412	Ant1	-30.04	-30	Pass
NVNT	ax20	2412	Ant2	-30.46	-30	Pass
NVNT	ax20	2462	Ant1	-45.49	-30	Pass
NVNT	ax20	2462	Ant2	-54.45	-30	Pass
NVNT	ax40	2422	Ant1	-30.29	-30	Pass
NVNT	ax40	2422	Ant2	-32.49	-30	Pass
NVNT	ax40	2452	Ant1	-37.15	-30	Pass
NVNT	ax40	2452	Ant2	-48.68	-30	Pass
NVNT	n20	2412	Ant1	-30.91	-30	Pass
NVNT	n20	2412	Ant2	-30.56	-30	Pass
NVNT	n20	2462	Ant1	-46.7	-30	Pass
NVNT	n20	2462	Ant2	-54.04	-30	Pass
NVNT	n40	2422	Ant1	-30.31	-30	Pass
NVNT	n40	2422	Ant2	-32.56	-30	Pass
NVNT	n40	2452	Ant1	-38.18	-30	Pass
NVNT	n40	2452	Ant2	-46.63	-30	Pass

Test Graphs

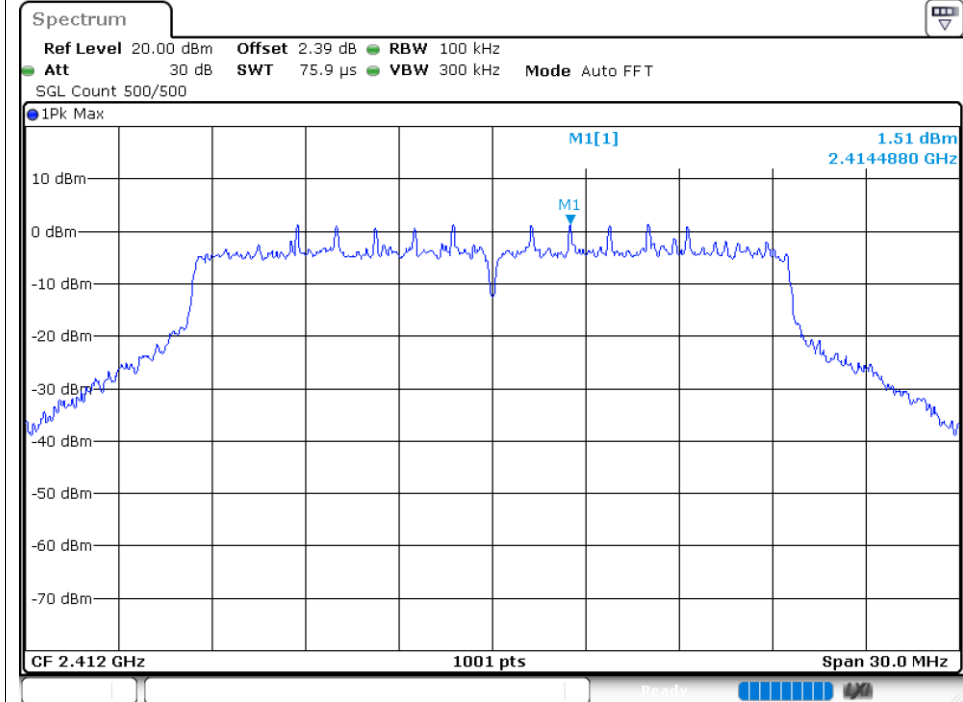
Band Edge NVNT ax20 2412MHz Ant1 Ref



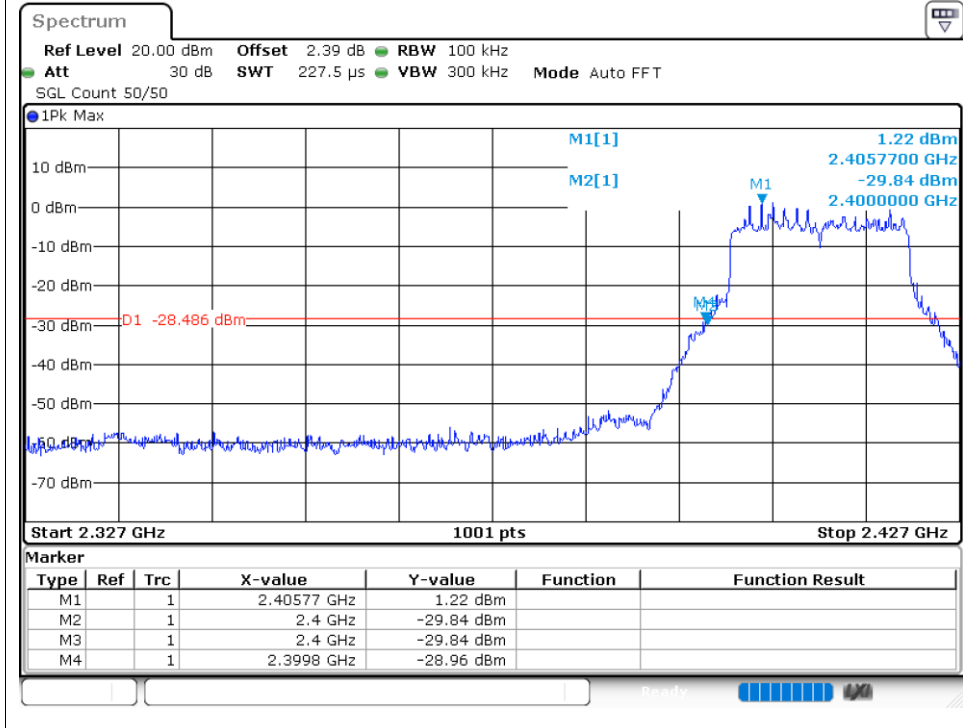
Band Edge NVNT ax20 2412MHz Ant1 Emission



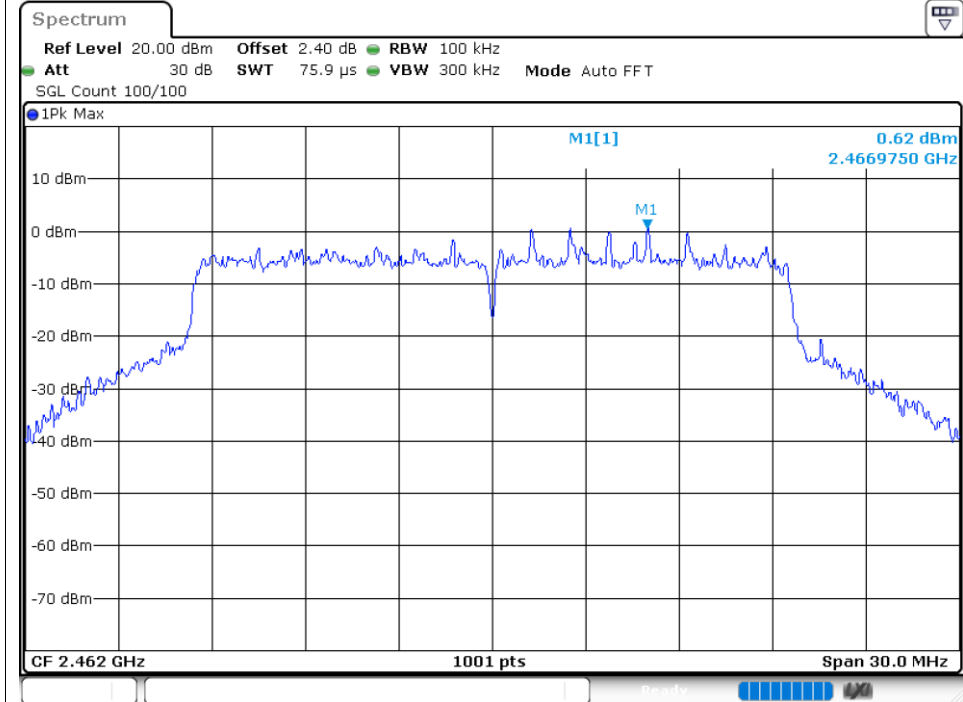
Band Edge NVNT ax20 2412MHz Ant2 Ref



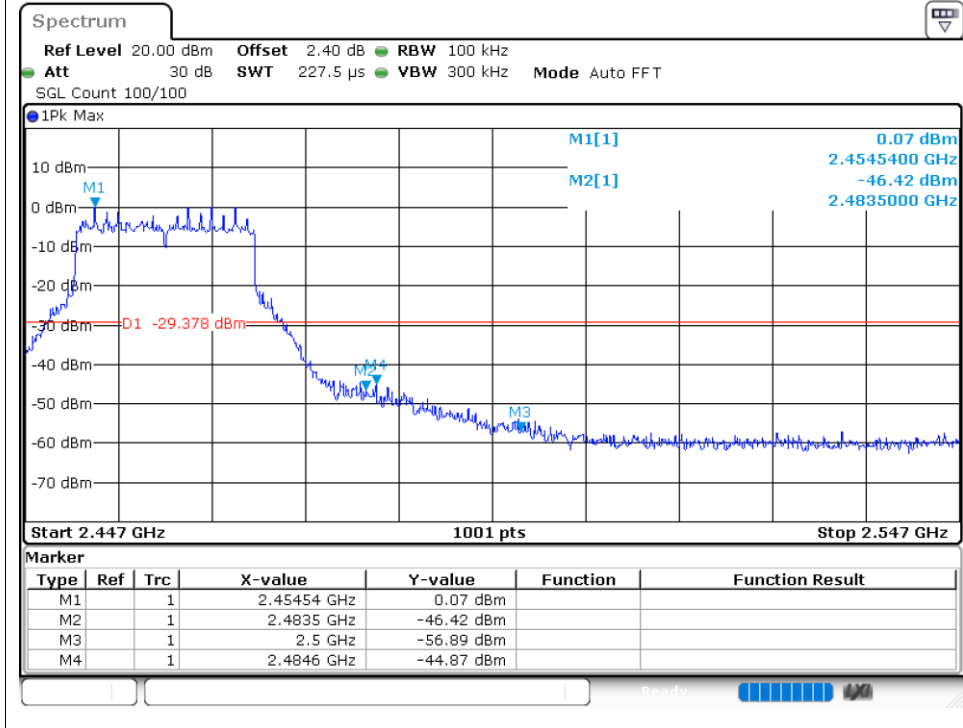
Band Edge NVNT ax20 2412MHz Ant2 Emission



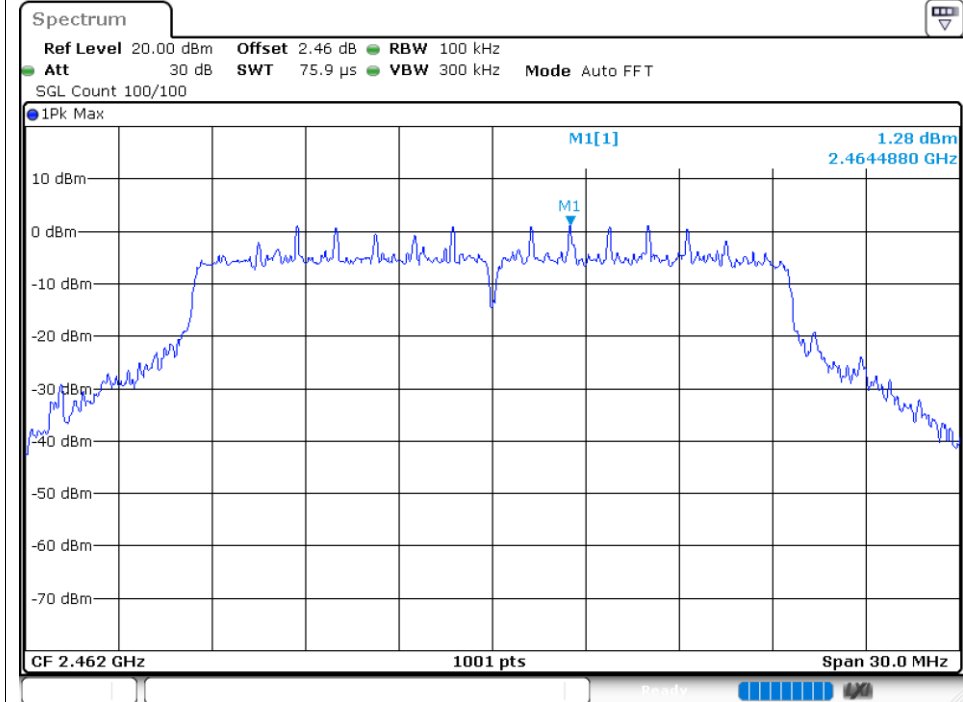
Band Edge NVNT ax20 2462MHz Ant1 Ref



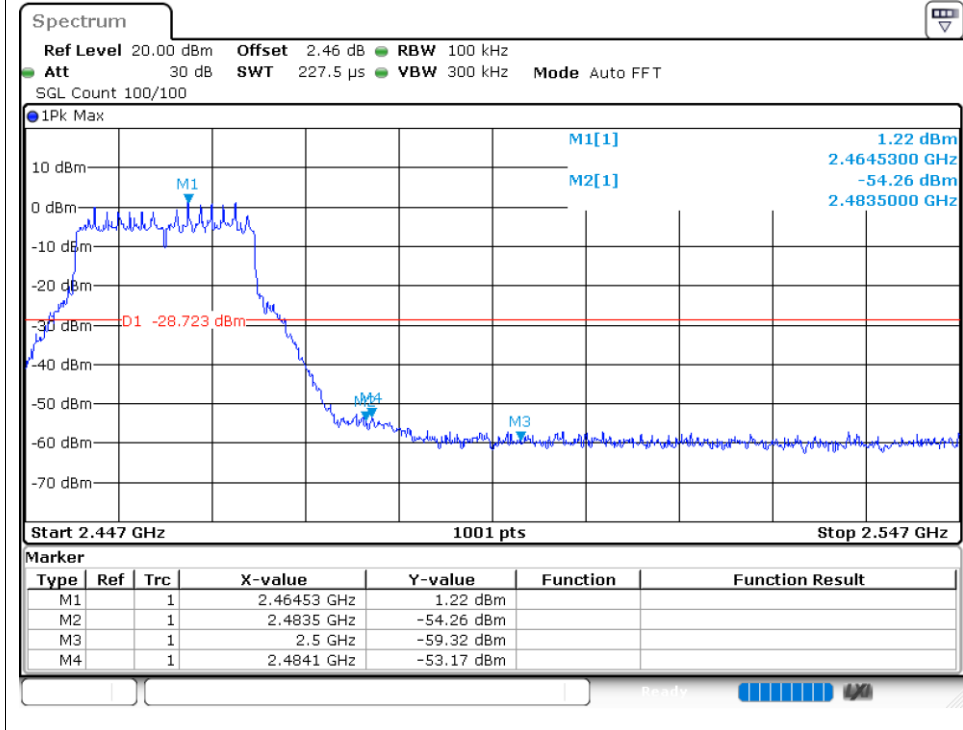
Band Edge NVNT ax20 2462MHz Ant1 Emission



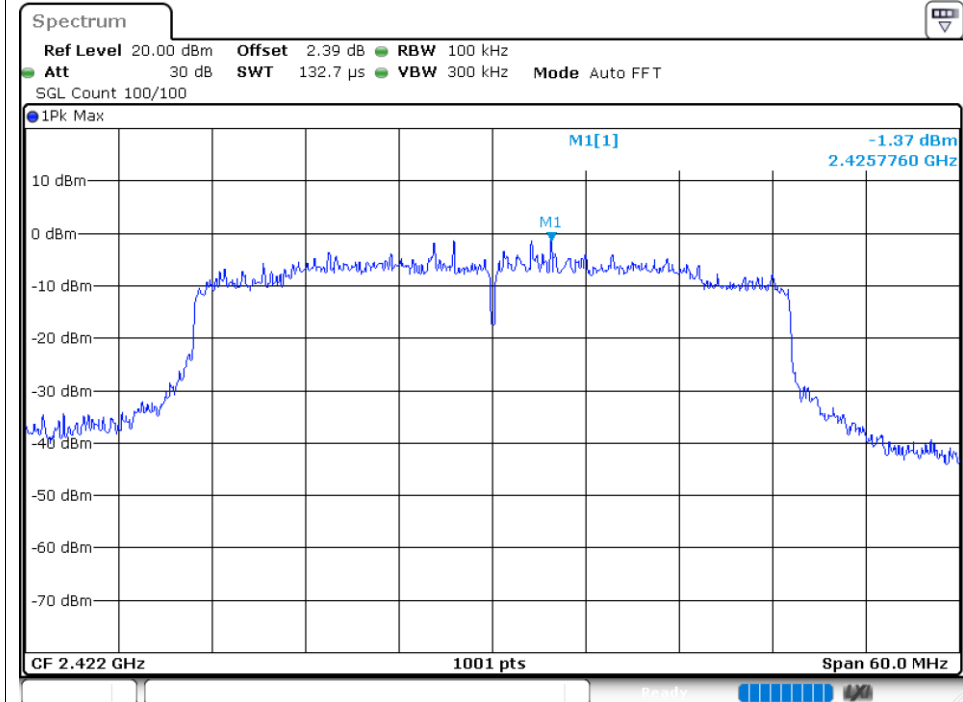
Band Edge NVNT ax20 2462MHz Ant2 Ref



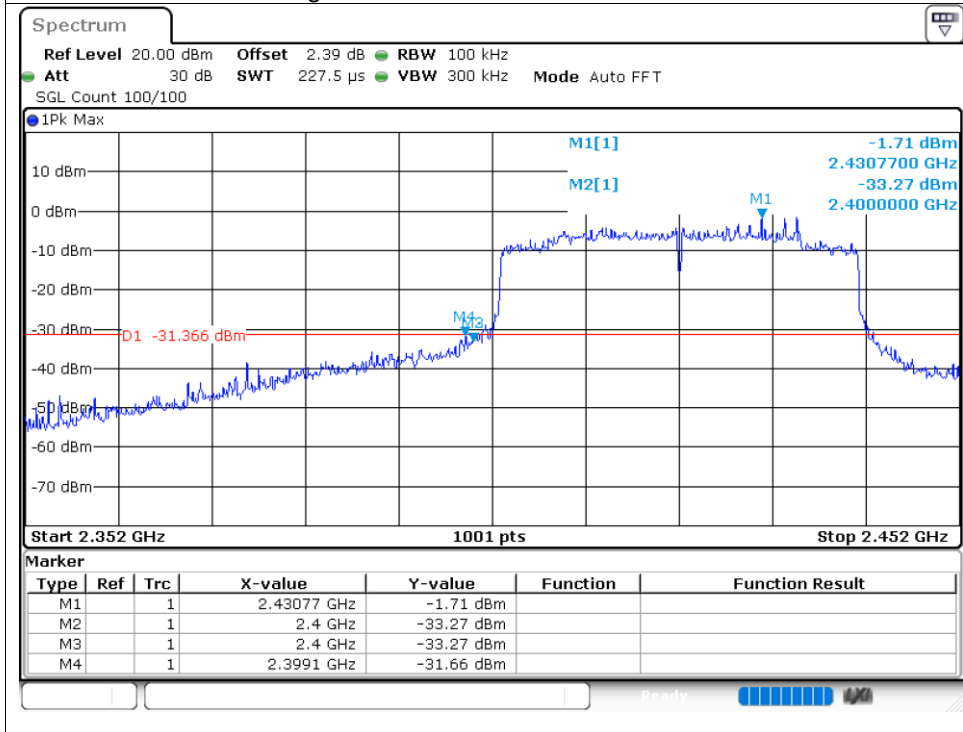
Band Edge NVNT ax20 2462MHz Ant2 Emission



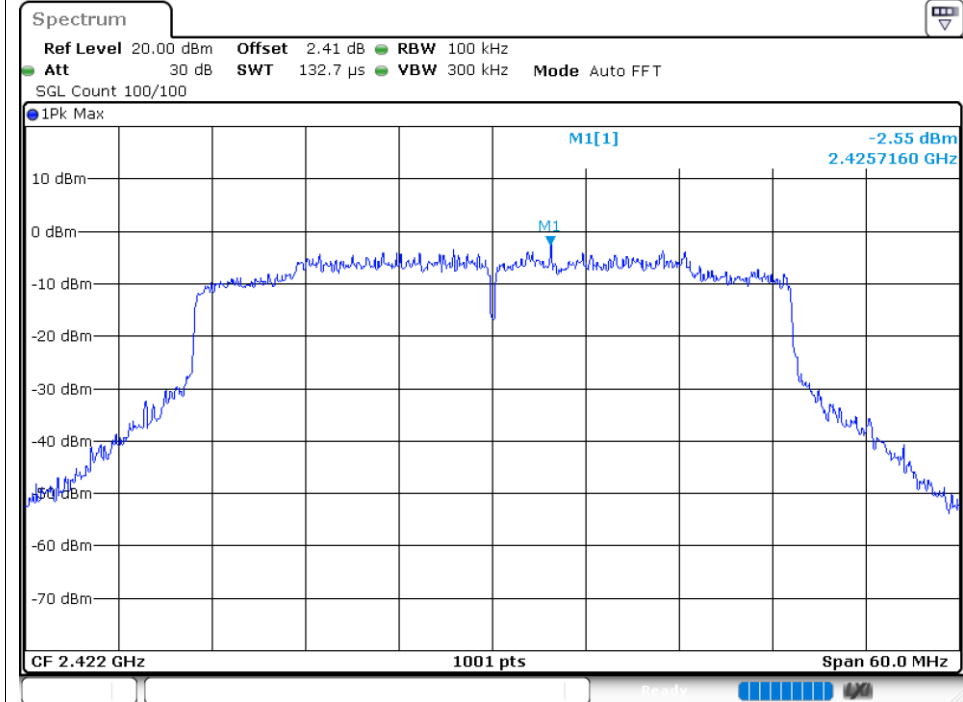
Band Edge NVNT ax40 2422MHz Ant1 Ref



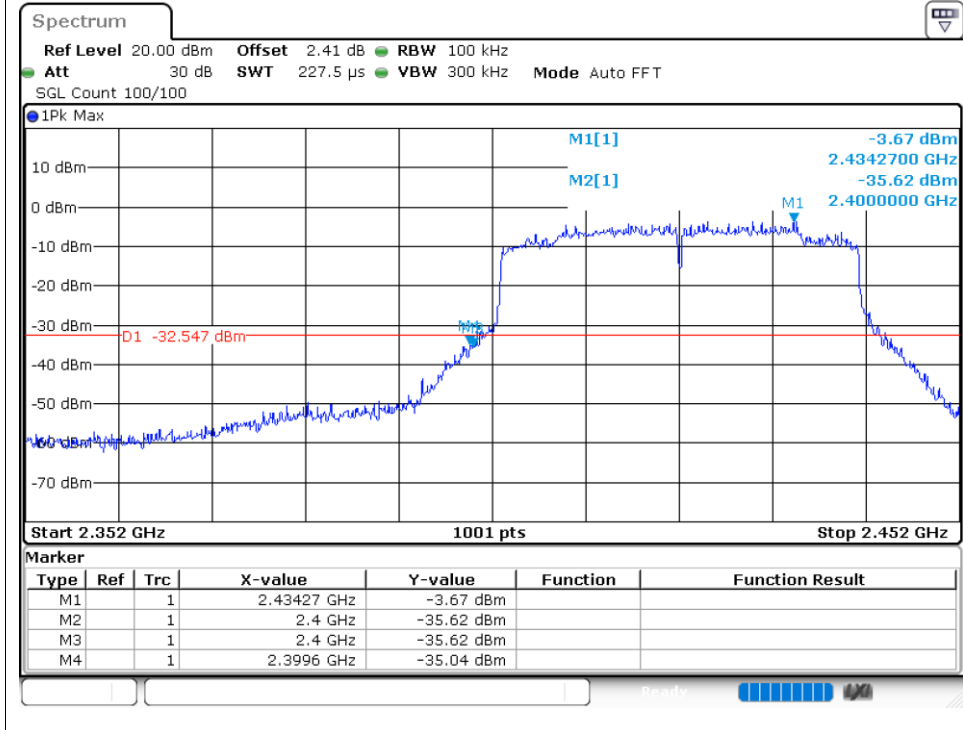
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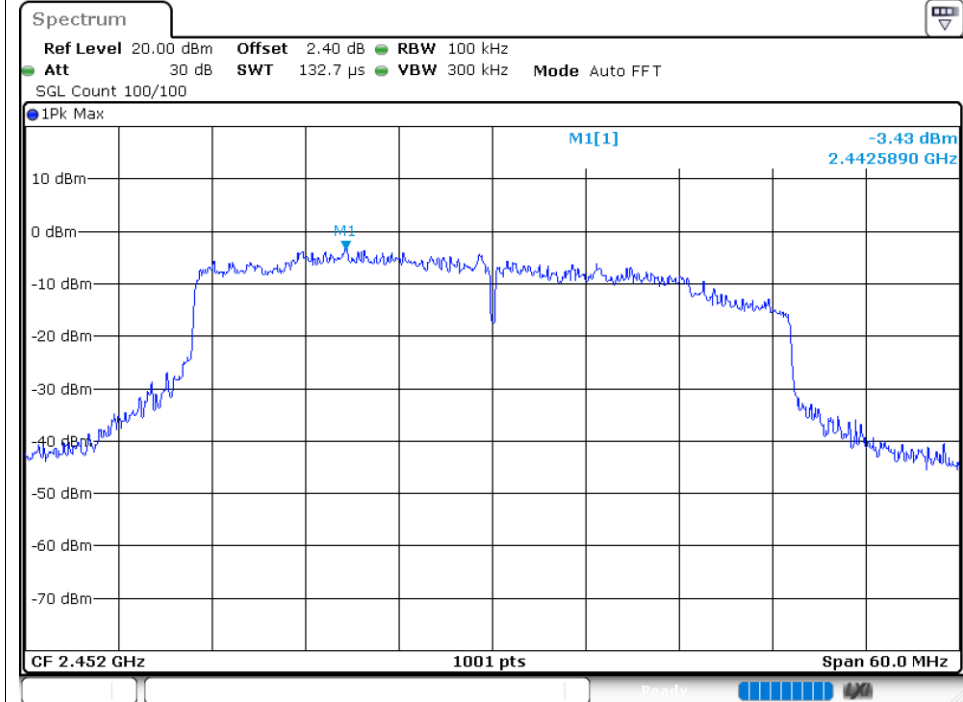
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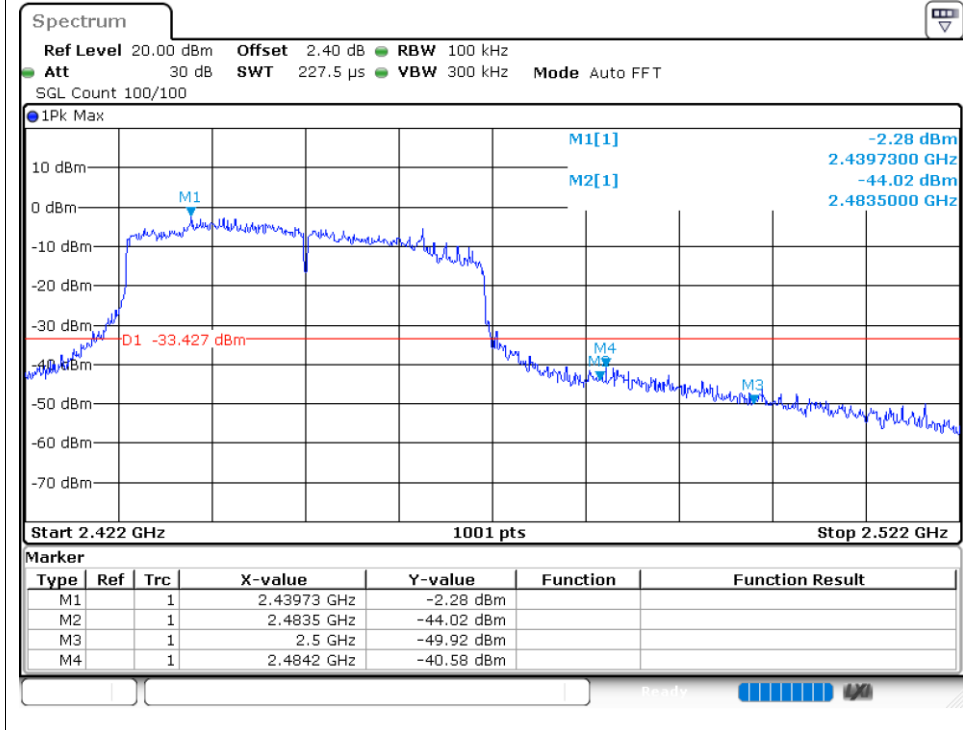
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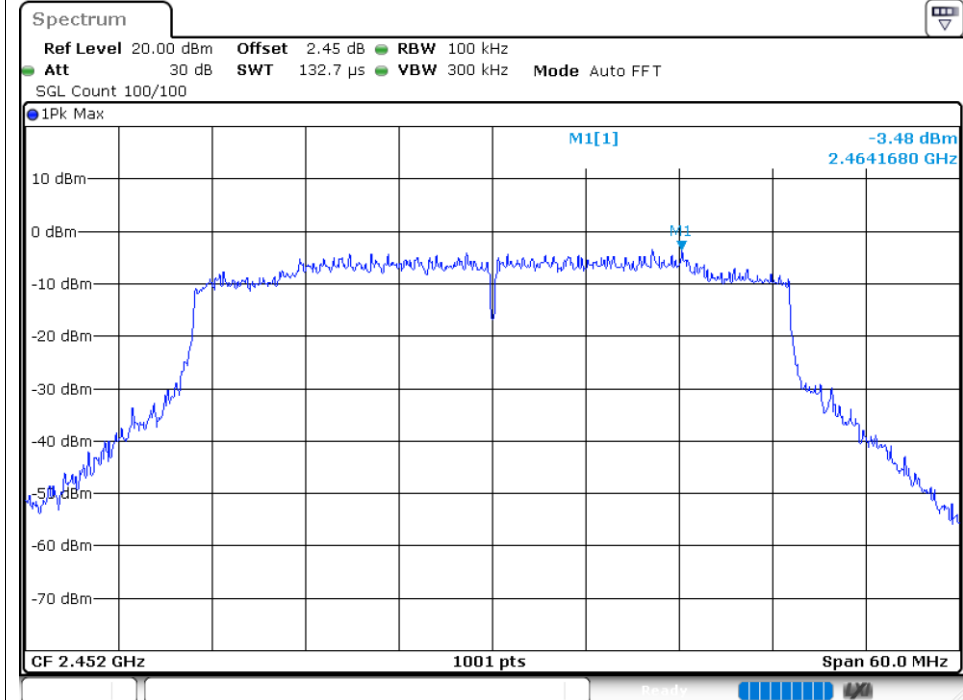
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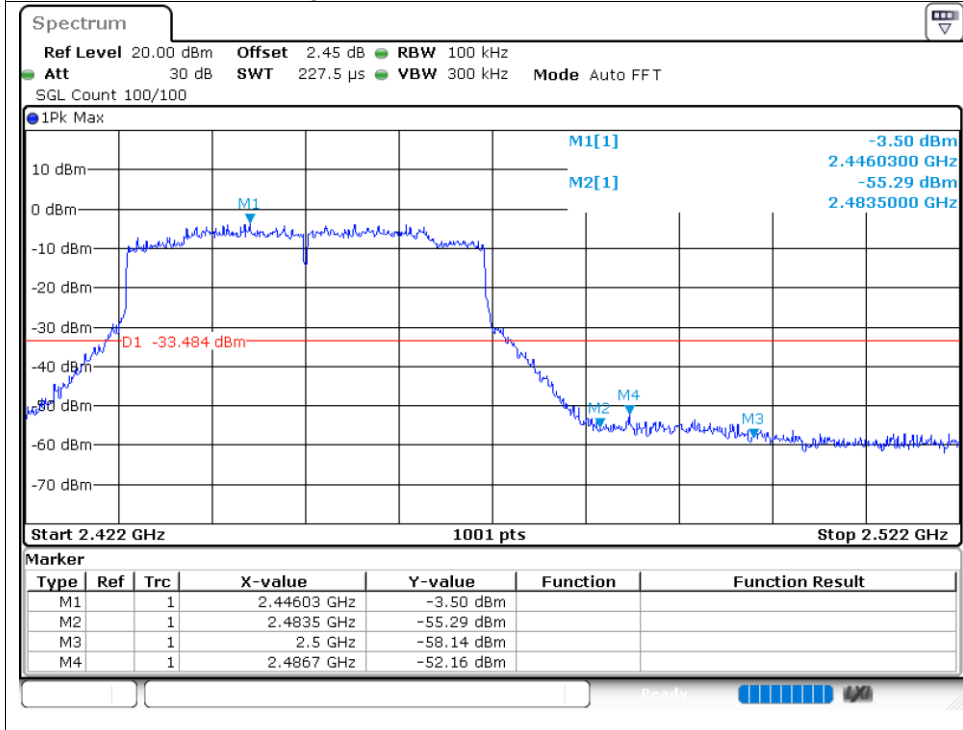
Band Edge NVNT ax40 2452MHz Ant1 Emission

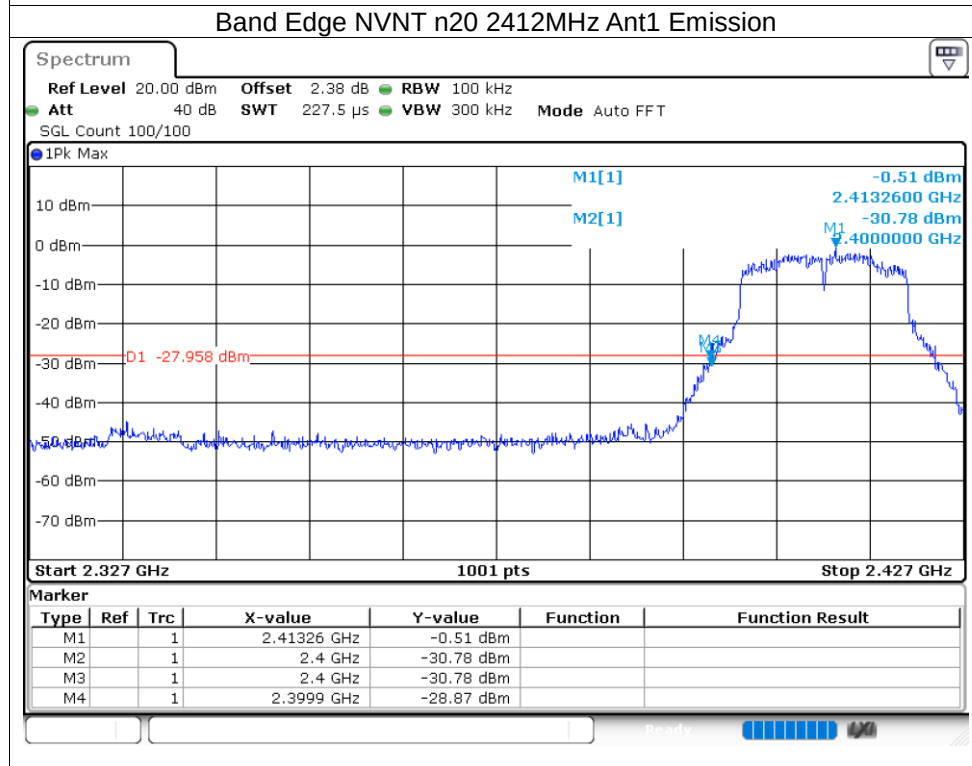
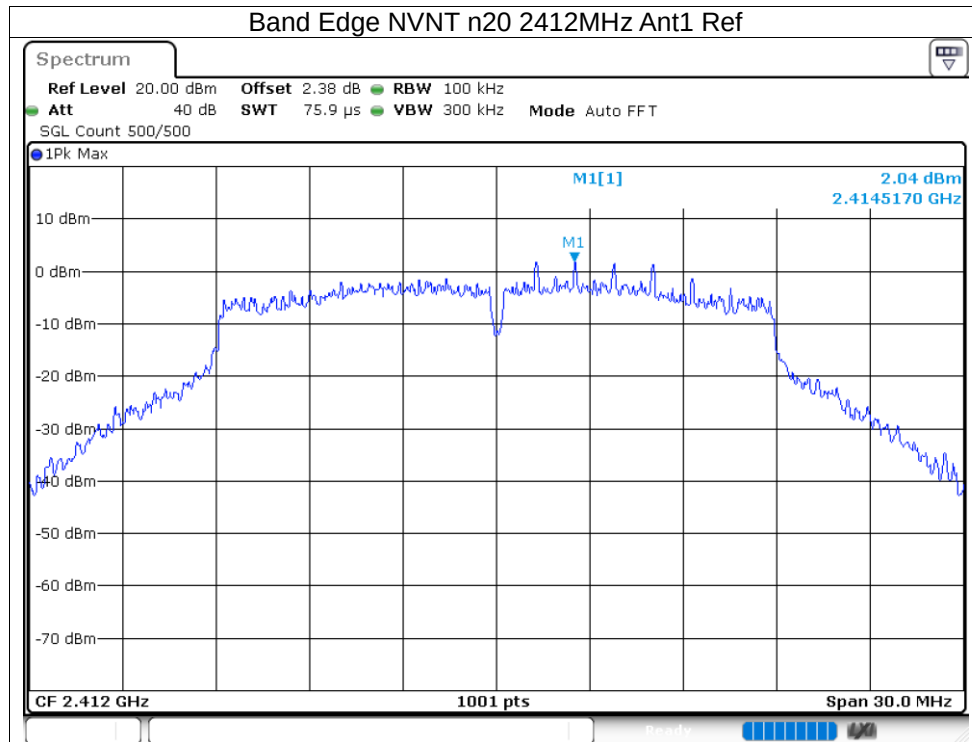


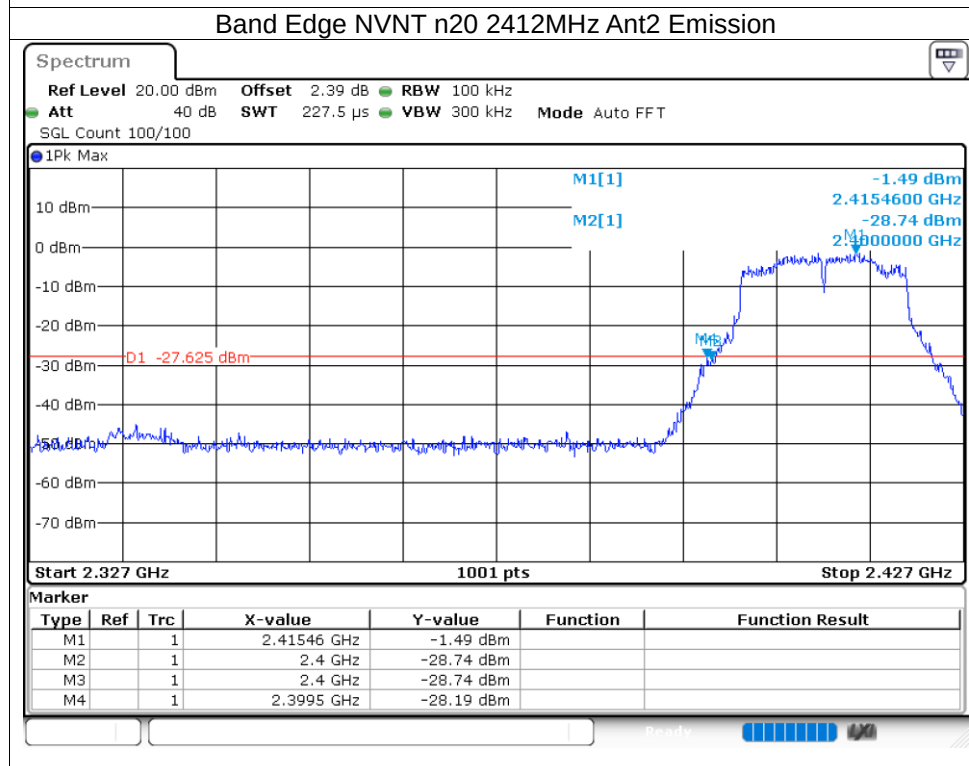
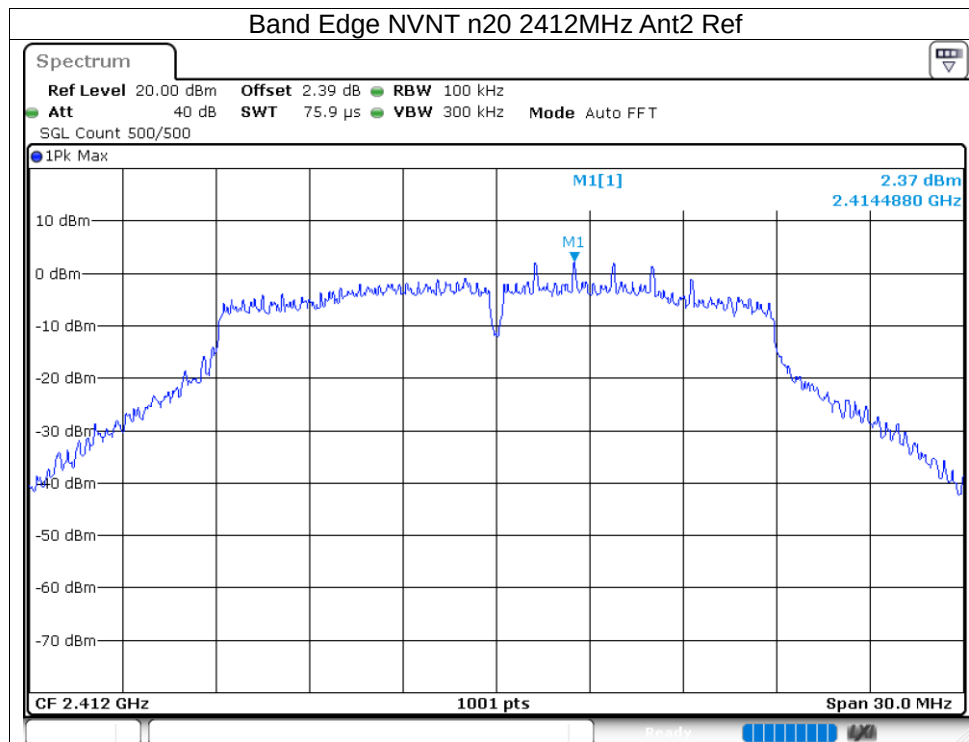
Band Edge NVNT ax40 2452MHz Ant2 Ref



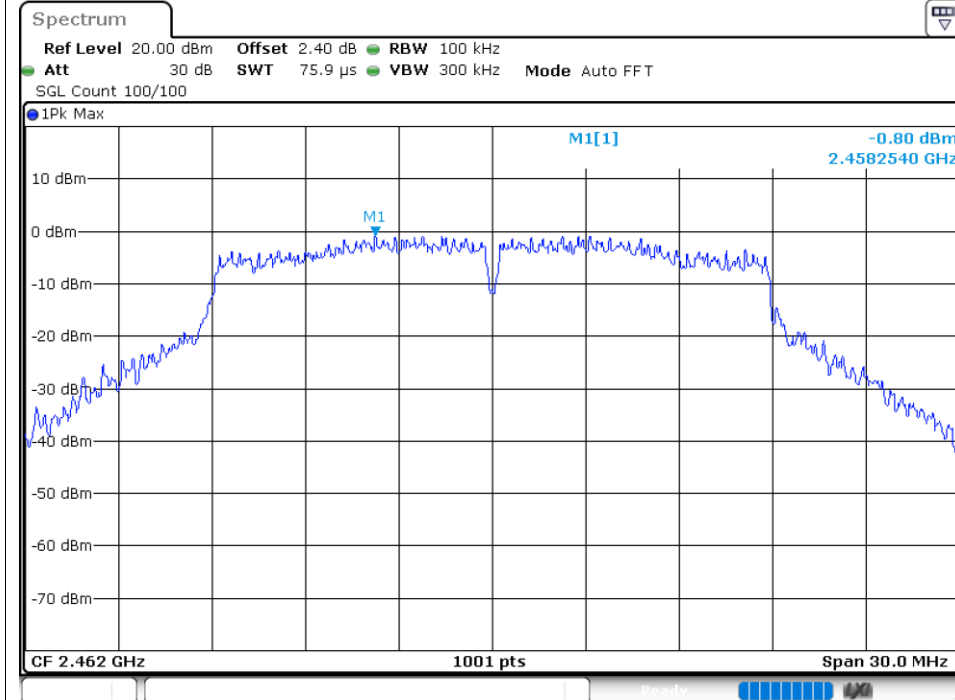
Band Edge NVNT ax40 2452MHz Ant2 Emission



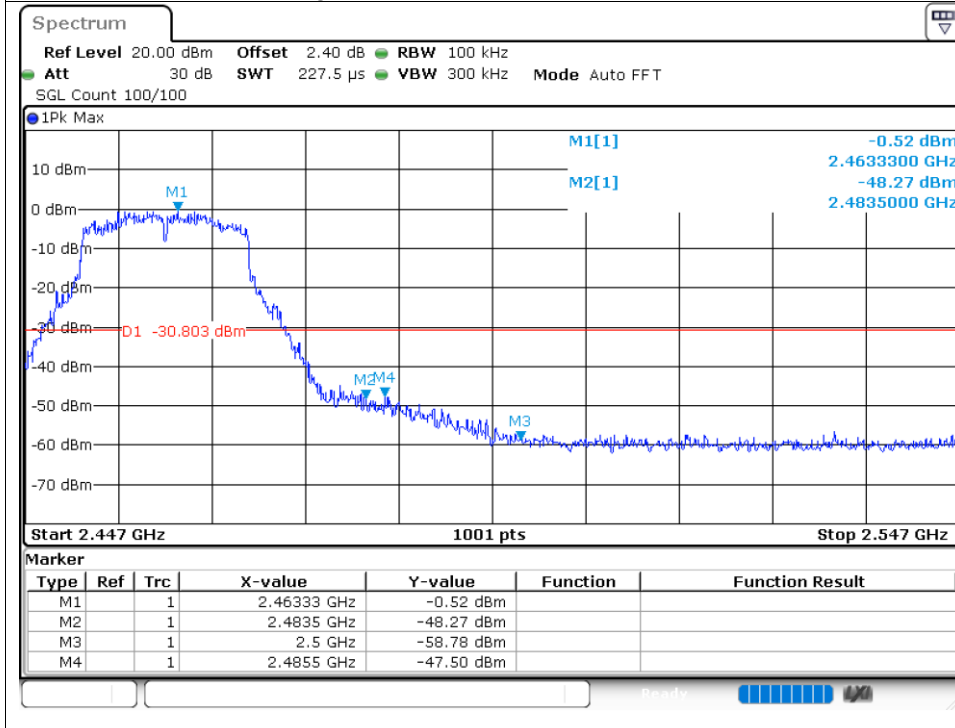


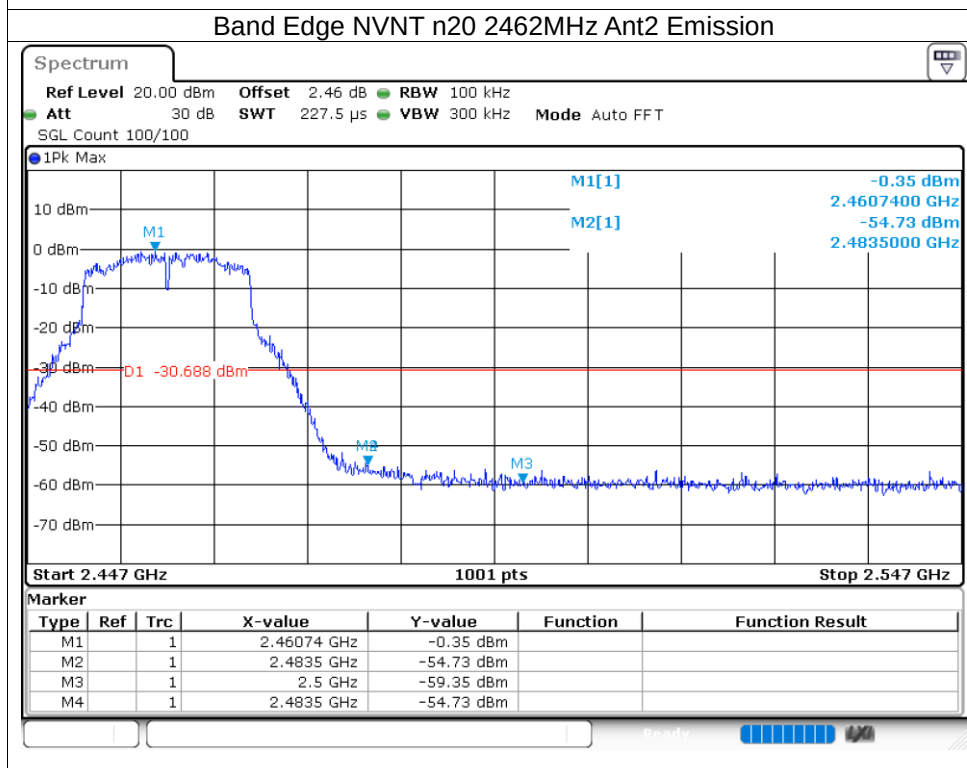
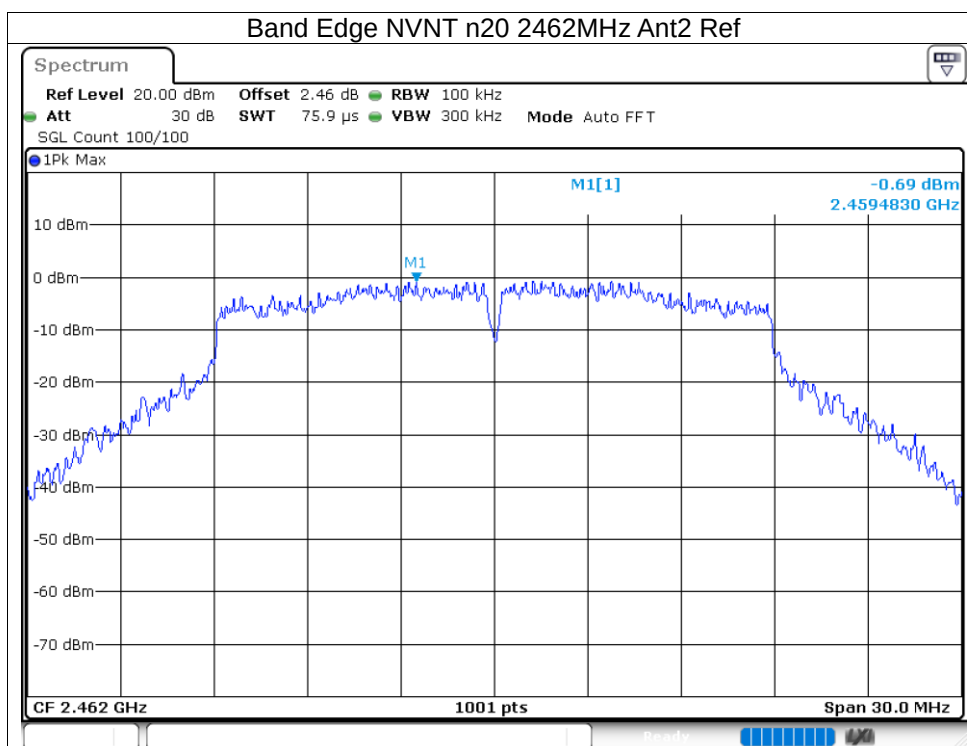


Band Edge NVNT n20 2462MHz Ant1 Ref

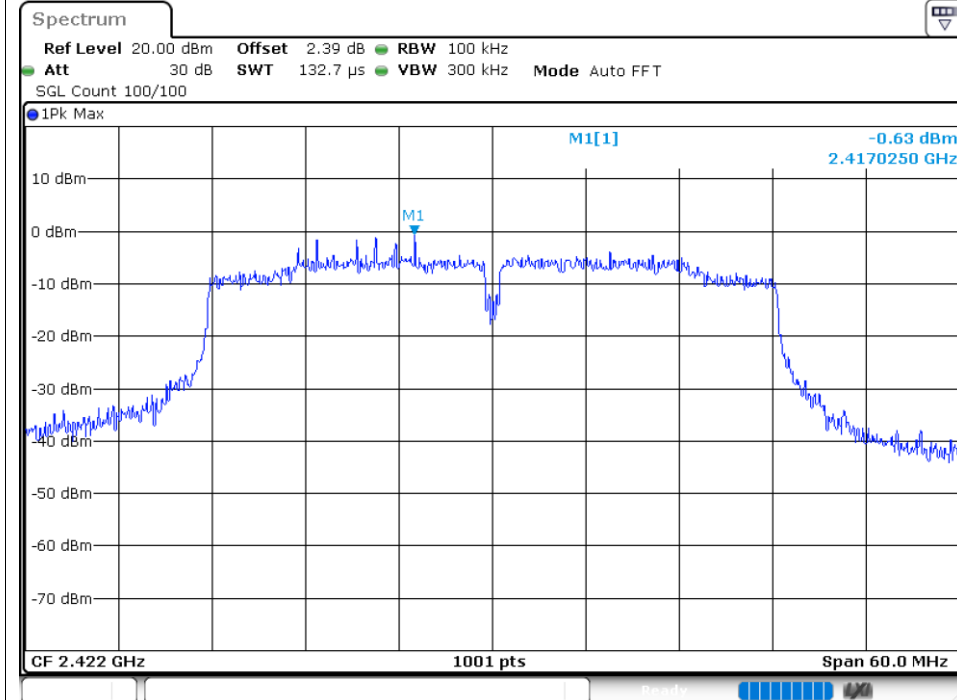


Band Edge NVNT n20 2462MHz Ant1 Emission

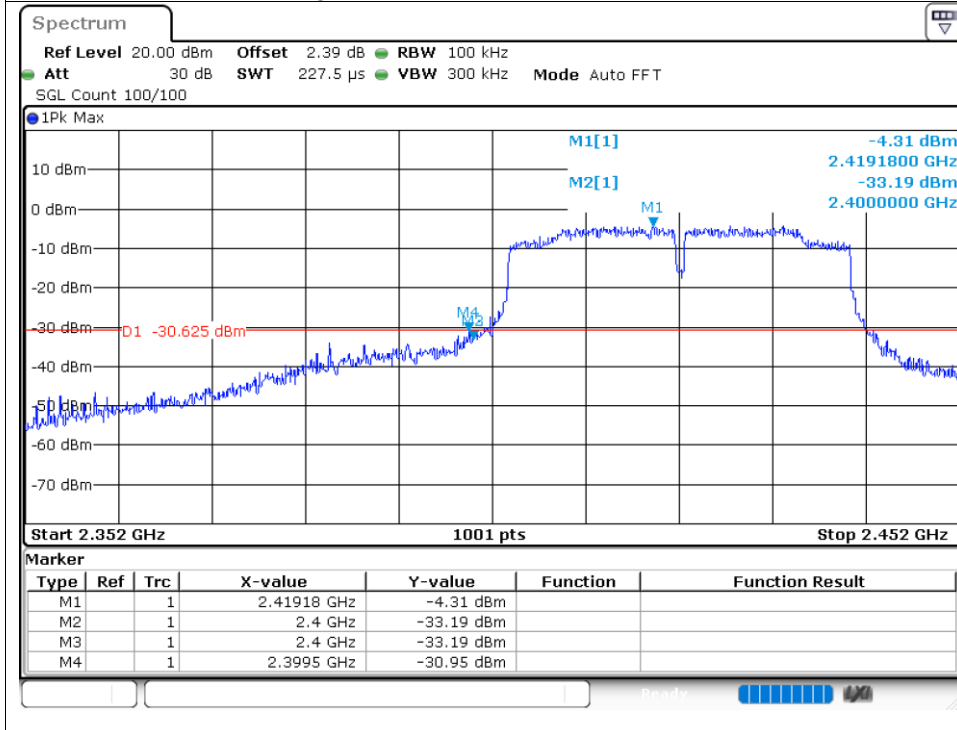


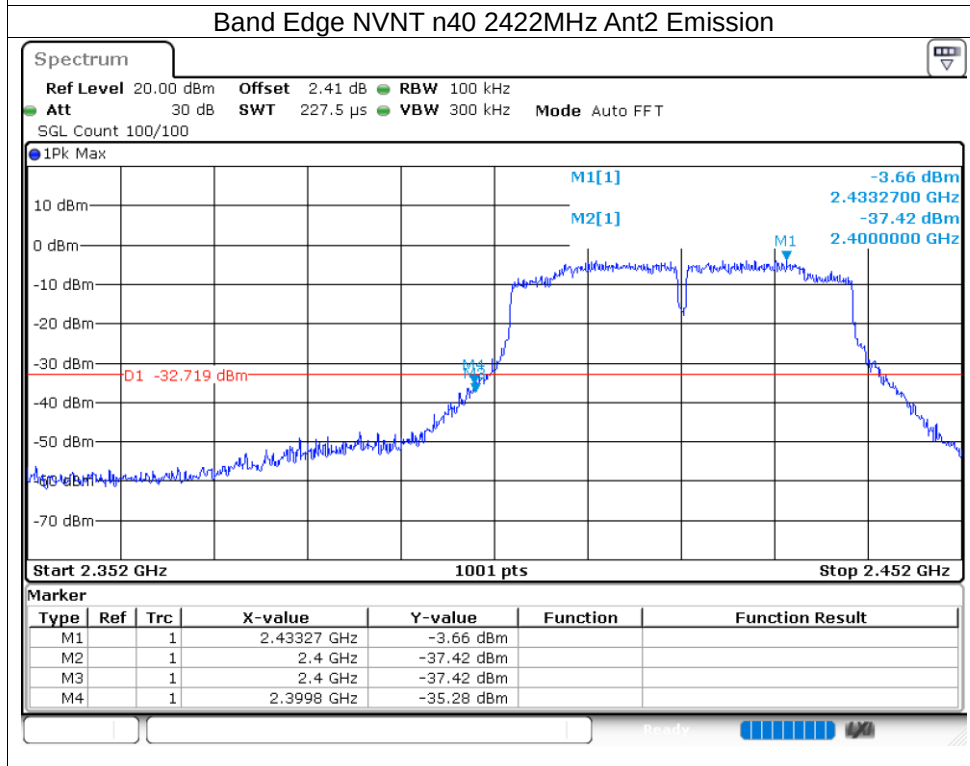
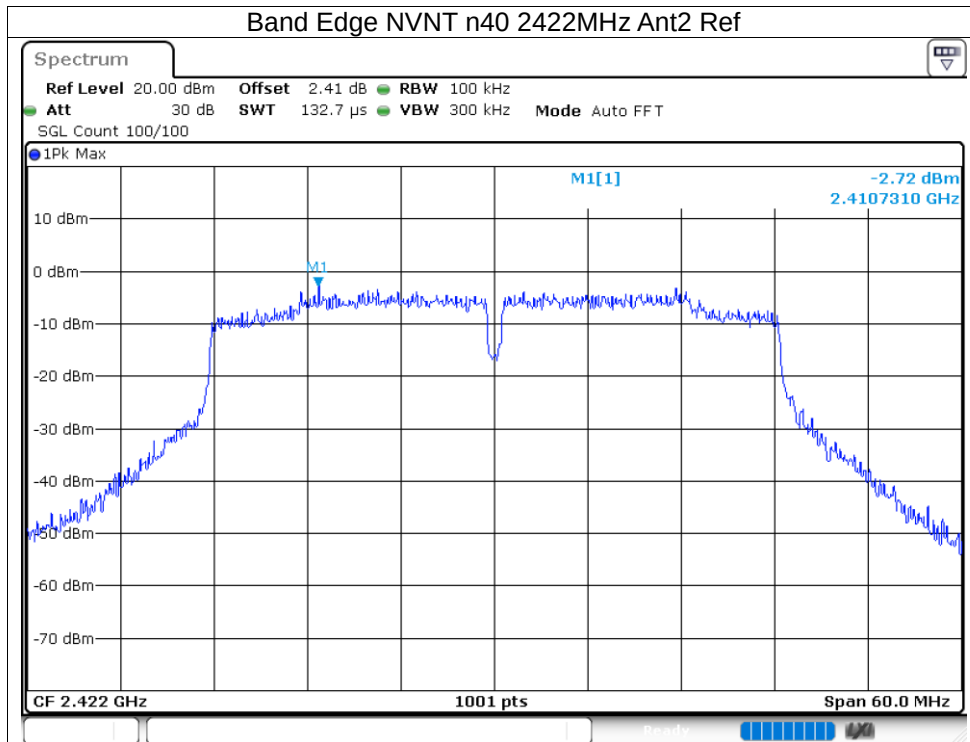


Band Edge NVNT n40 2422MHz Ant1 Ref

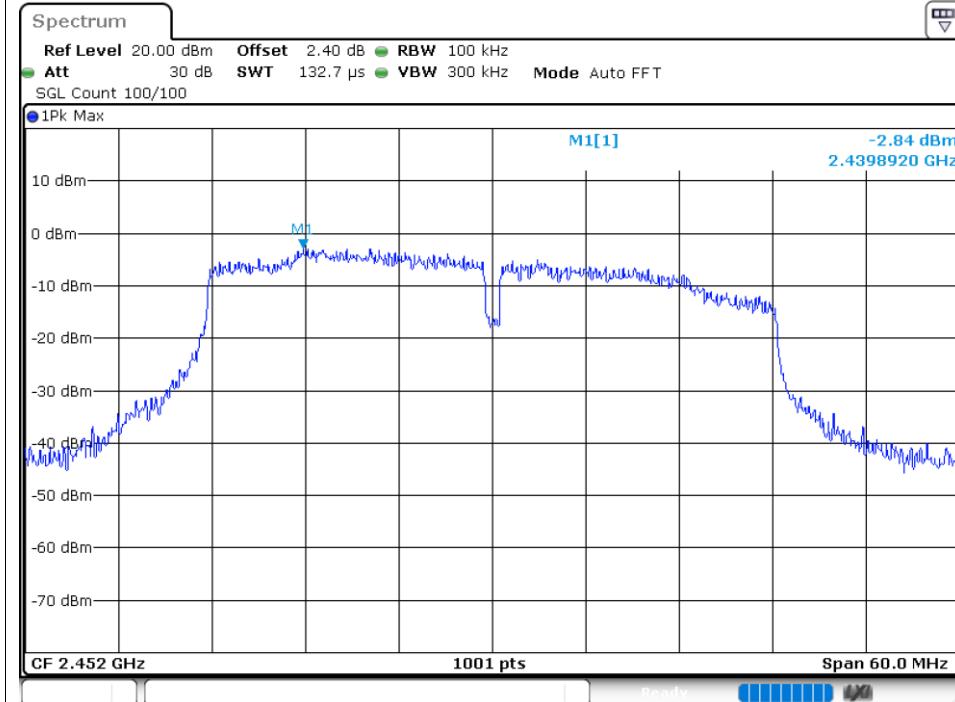


Band Edge NVNT n40 2422MHz Ant1 Emission

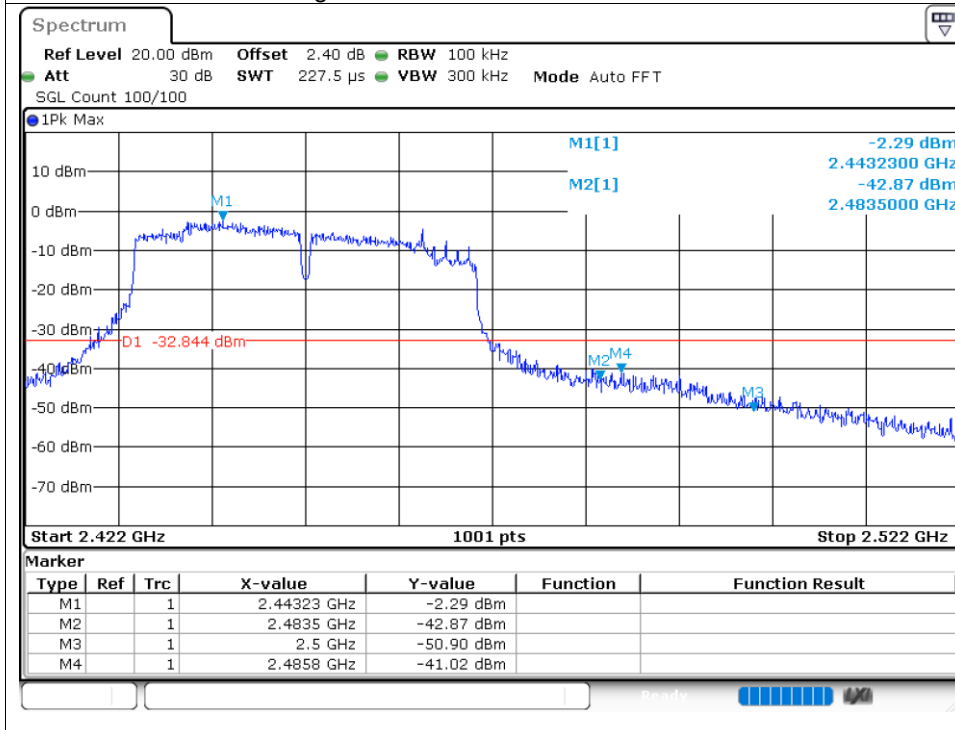




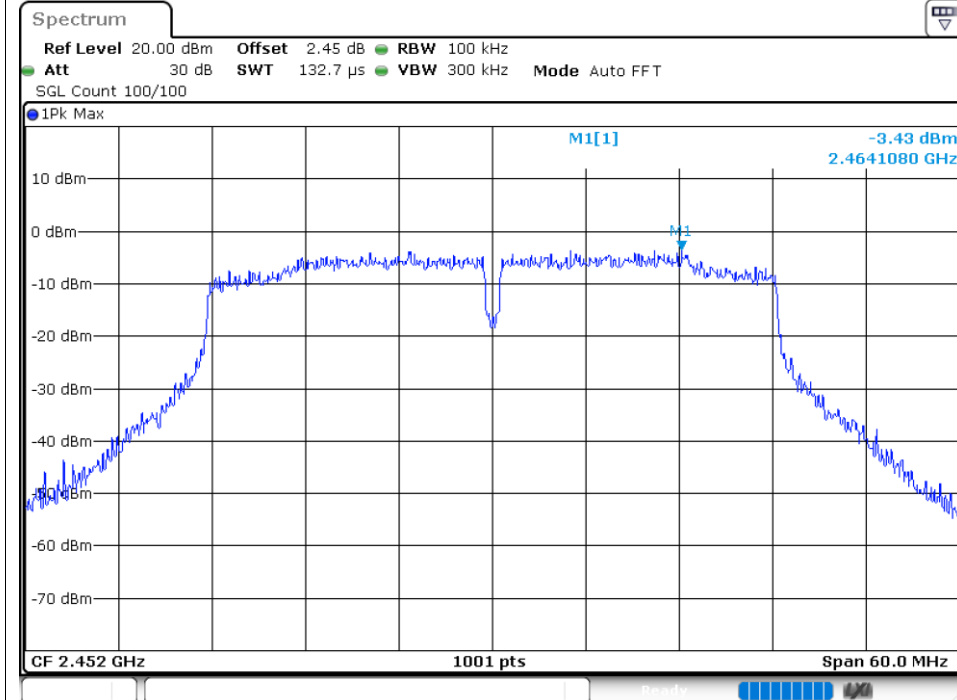
Band Edge NVNT n40 2452MHz Ant1 Ref



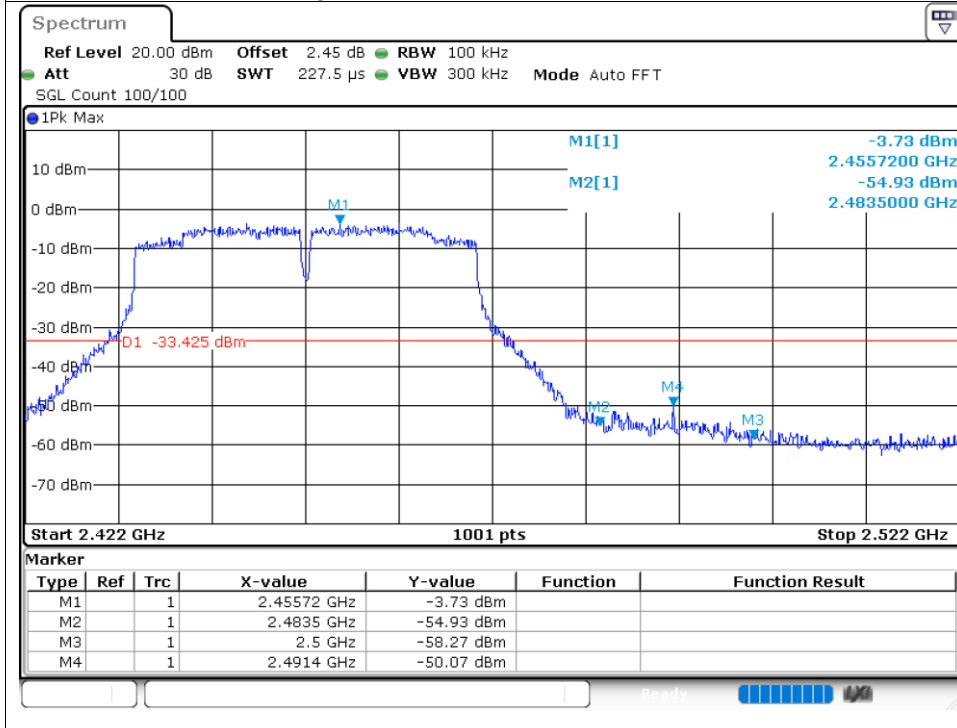
Band Edge NVNT n40 2452MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission

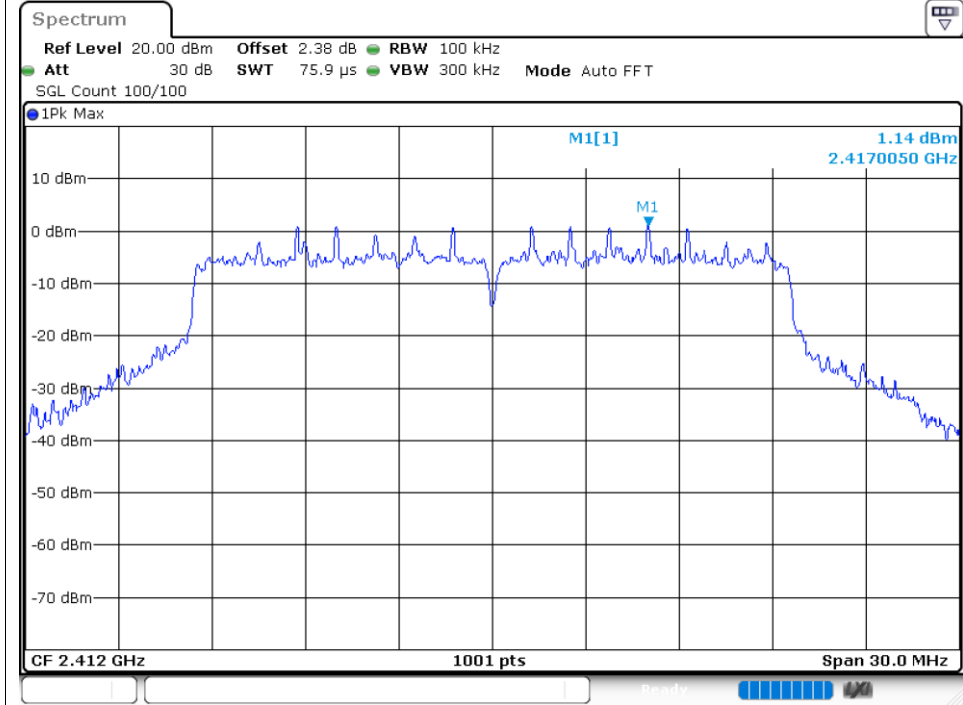


8.2.7 Conducted RF Spurious Emission

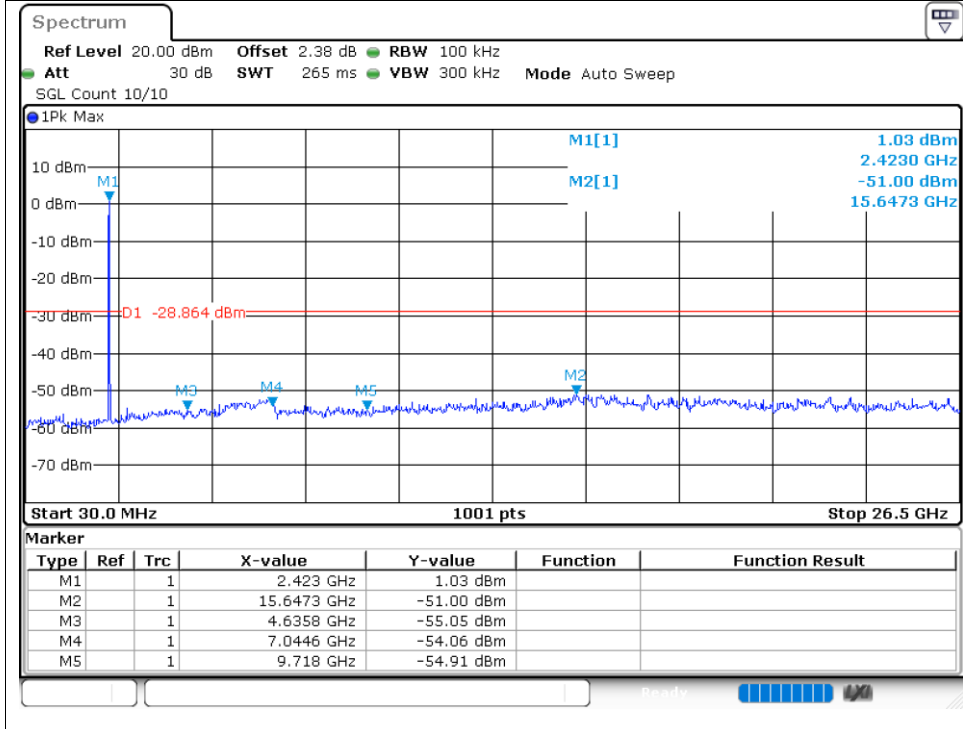
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax20	2412	Ant1	-52.13	-30	Pass
NVNT	ax20	2412	Ant2	-52.07	-30	Pass
NVNT	ax20	2437	Ant1	-50.51	-30	Pass
NVNT	ax20	2437	Ant2	-51.61	-30	Pass
NVNT	ax20	2462	Ant1	-49.85	-30	Pass
NVNT	ax20	2462	Ant2	-50.78	-30	Pass
NVNT	ax40	2422	Ant1	-45.55	-30	Pass
NVNT	ax40	2422	Ant2	-47.36	-30	Pass
NVNT	ax40	2437	Ant1	-45.94	-30	Pass
NVNT	ax40	2437	Ant2	-46.87	-30	Pass
NVNT	ax40	2452	Ant1	-48.28	-30	Pass
NVNT	ax40	2452	Ant2	-47.56	-30	Pass
NVNT	n20	2412	Ant1	-48.91	-30	Pass
NVNT	n20	2412	Ant2	-50.08	-30	Pass
NVNT	n20	2437	Ant1	-50.32	-30	Pass
NVNT	n20	2437	Ant2	-49.81	-30	Pass
NVNT	n20	2462	Ant1	-49.43	-30	Pass
NVNT	n20	2462	Ant2	-50.08	-30	Pass
NVNT	n40	2422	Ant1	-46.6	-30	Pass
NVNT	n40	2422	Ant2	-46.9	-30	Pass
NVNT	n40	2437	Ant1	-46.3	-30	Pass
NVNT	n40	2437	Ant2	-48.56	-30	Pass
NVNT	n40	2452	Ant1	-48.22	-30	Pass
NVNT	n40	2452	Ant2	-48.07	-30	Pass

Test Graphs

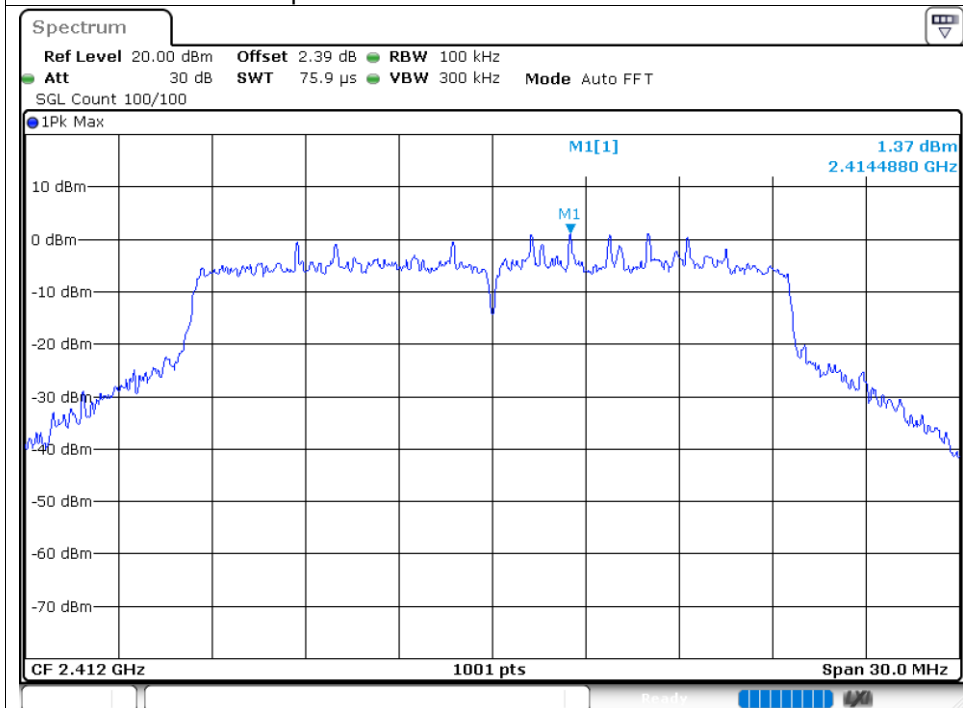
Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



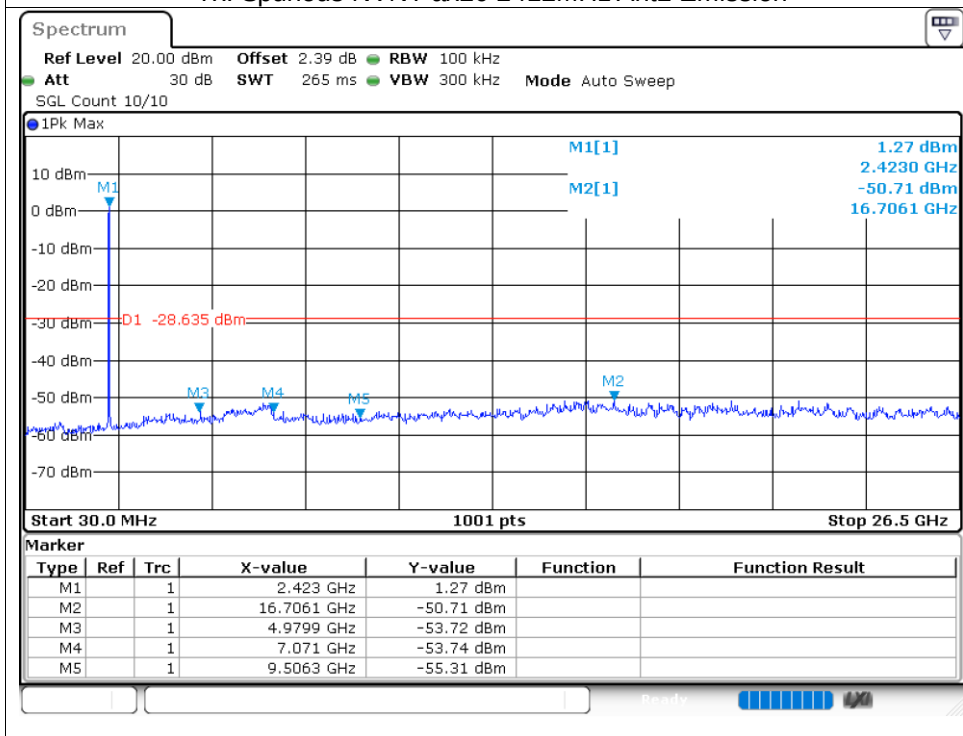
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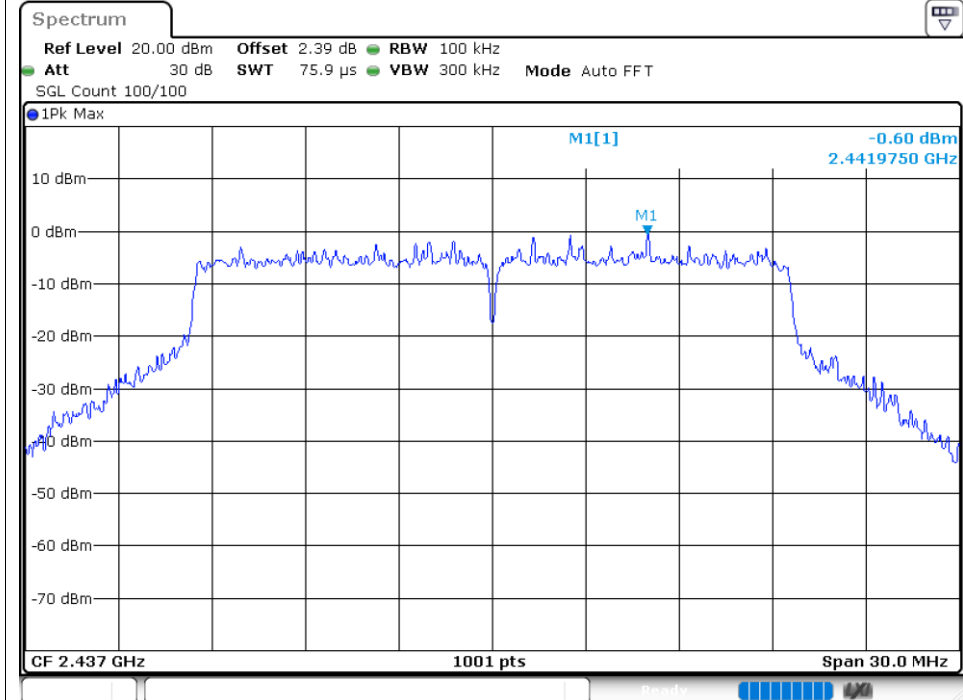
Tx. Spurious NVNT ax20 2412MHz Ant2 Ref



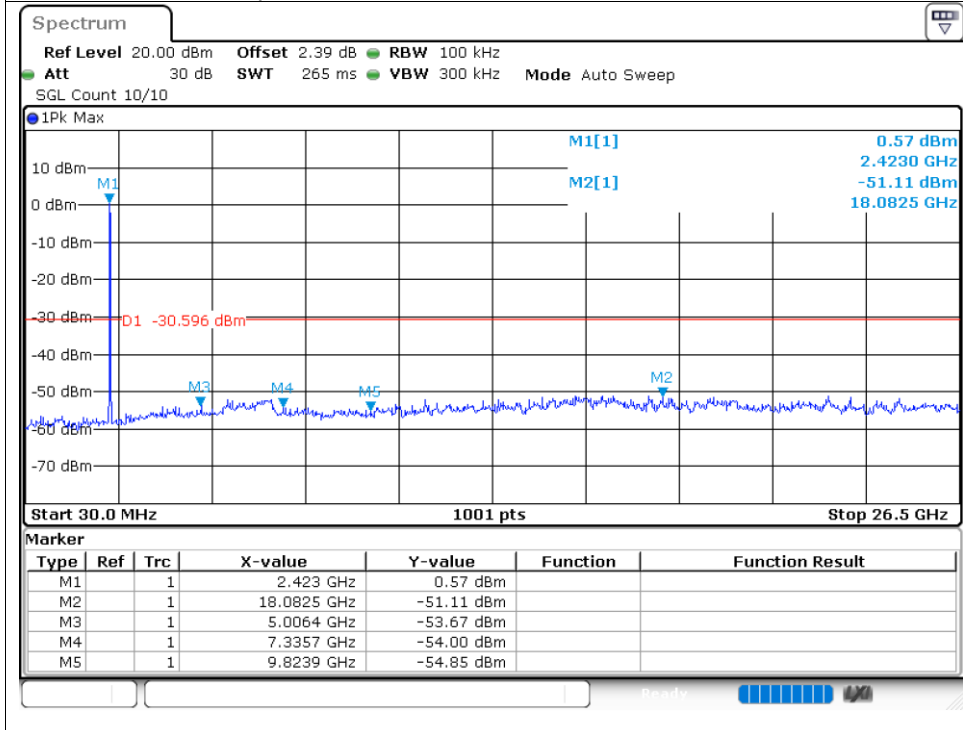
Tx. Spurious NVNT ax20 2412MHz Ant2 Emission



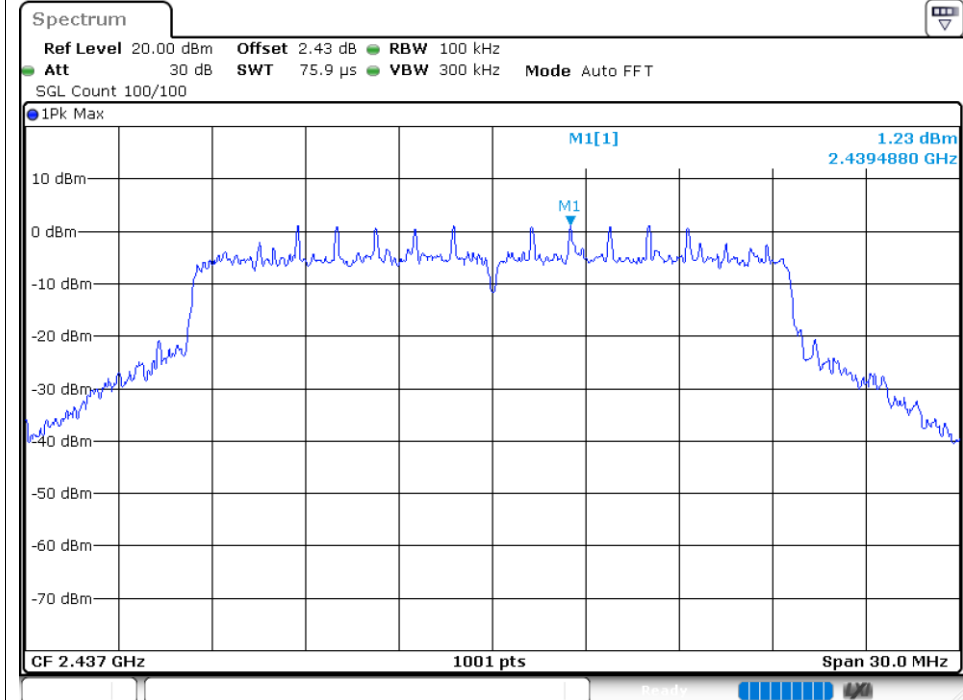
Tx. Spurious NVNT ax20 2437MHz Ant1 Ref



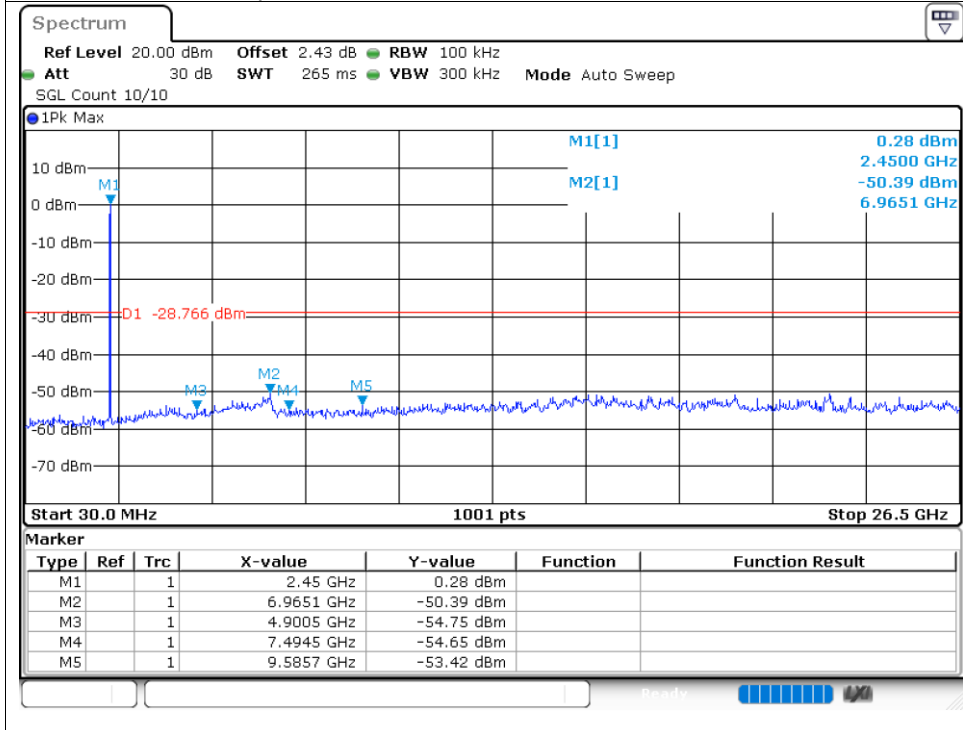
Tx. Spurious NVNT ax20 2437MHz Ant1 Emission



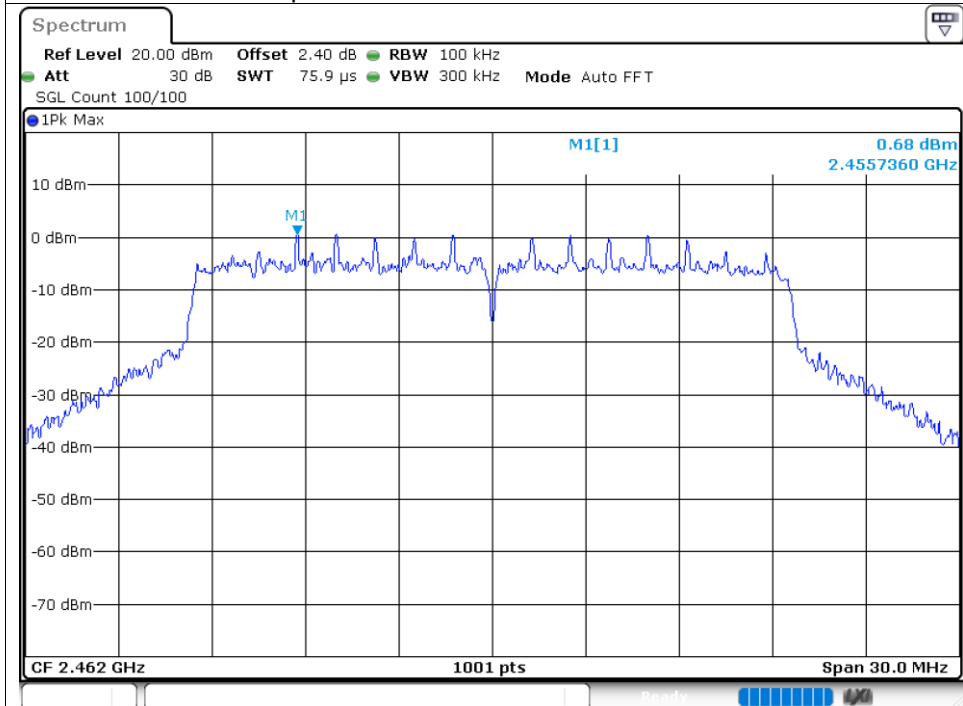
Tx. Spurious NVNT ax20 2437MHz Ant2 Ref



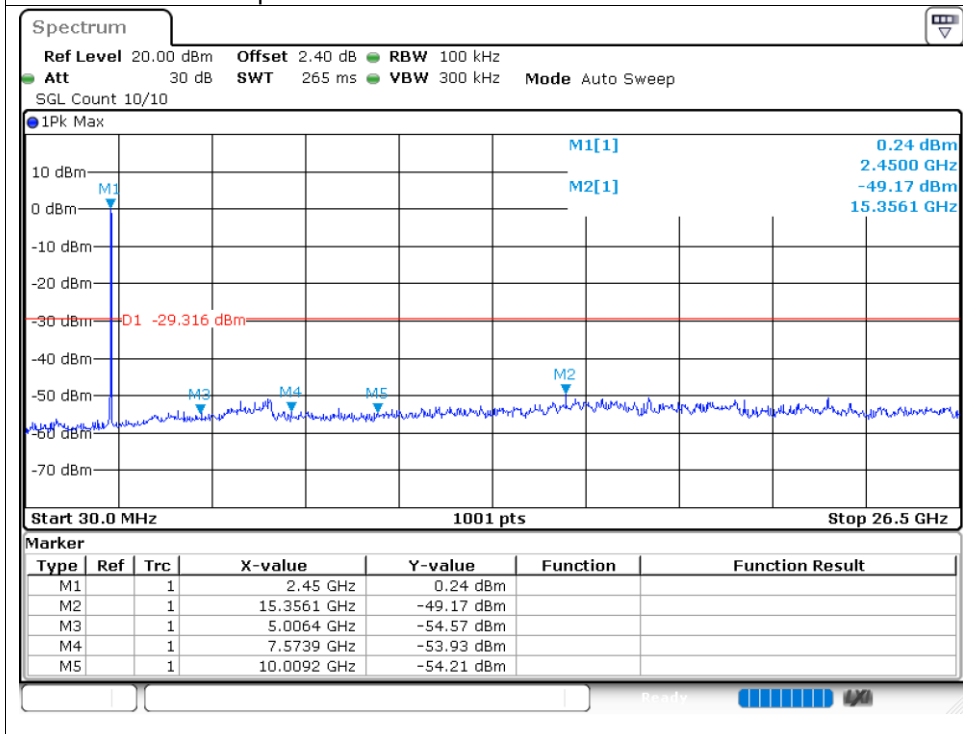
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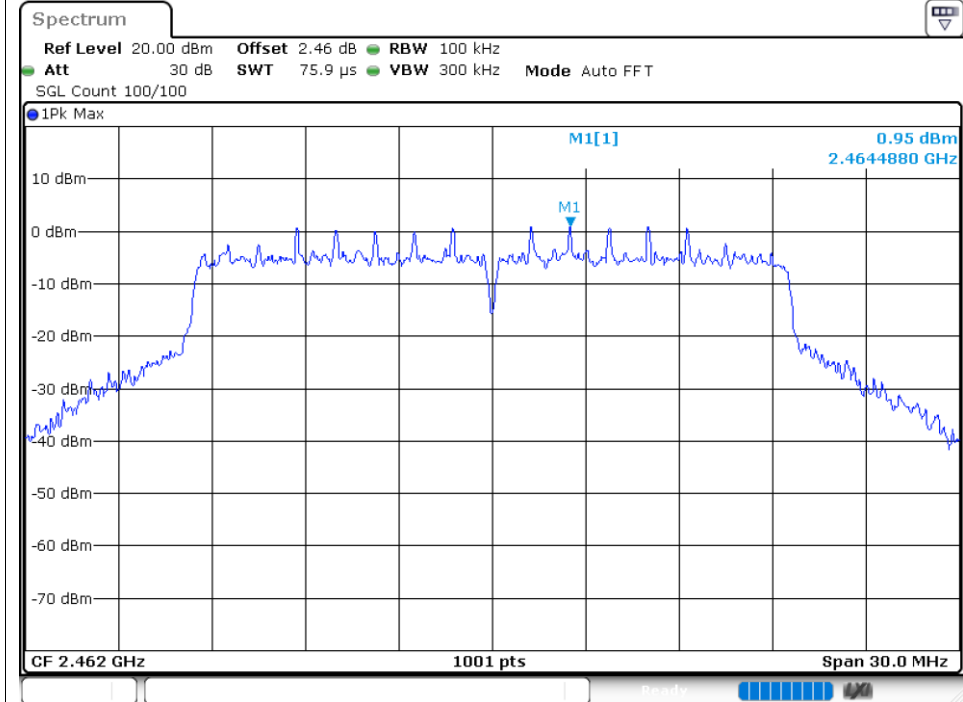
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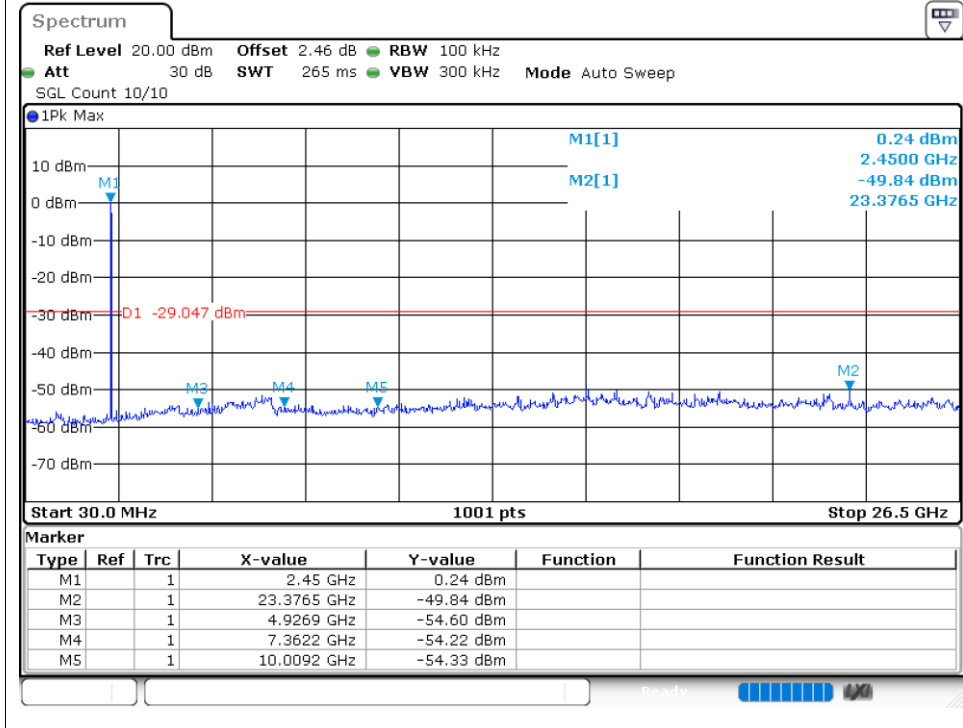
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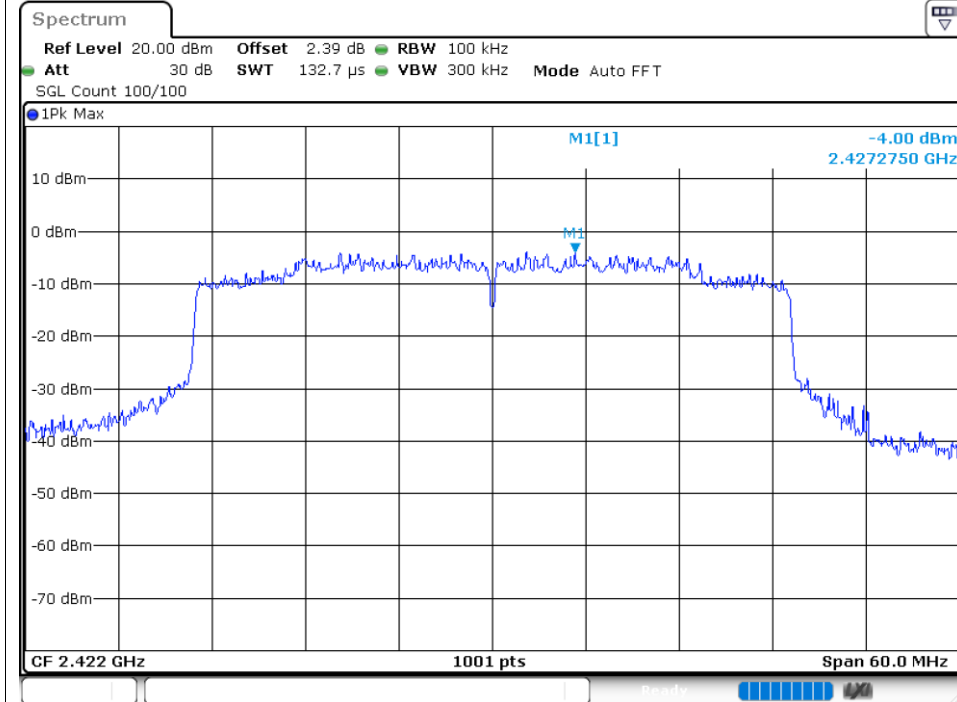
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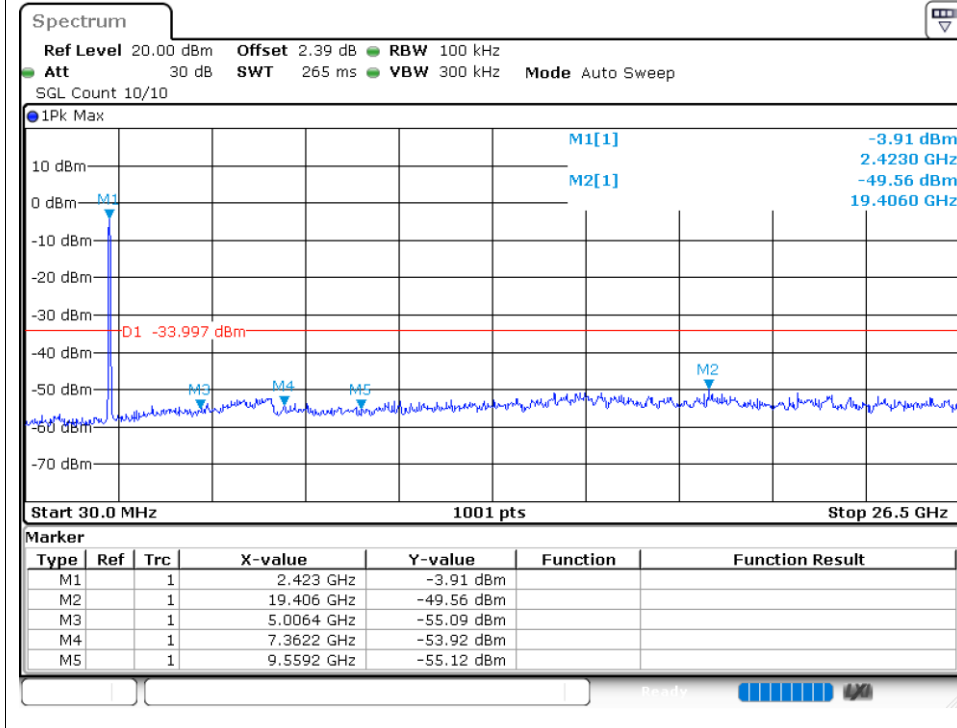
Tx. Spurious NVNT ax20 2462MHz Ant2 Emission



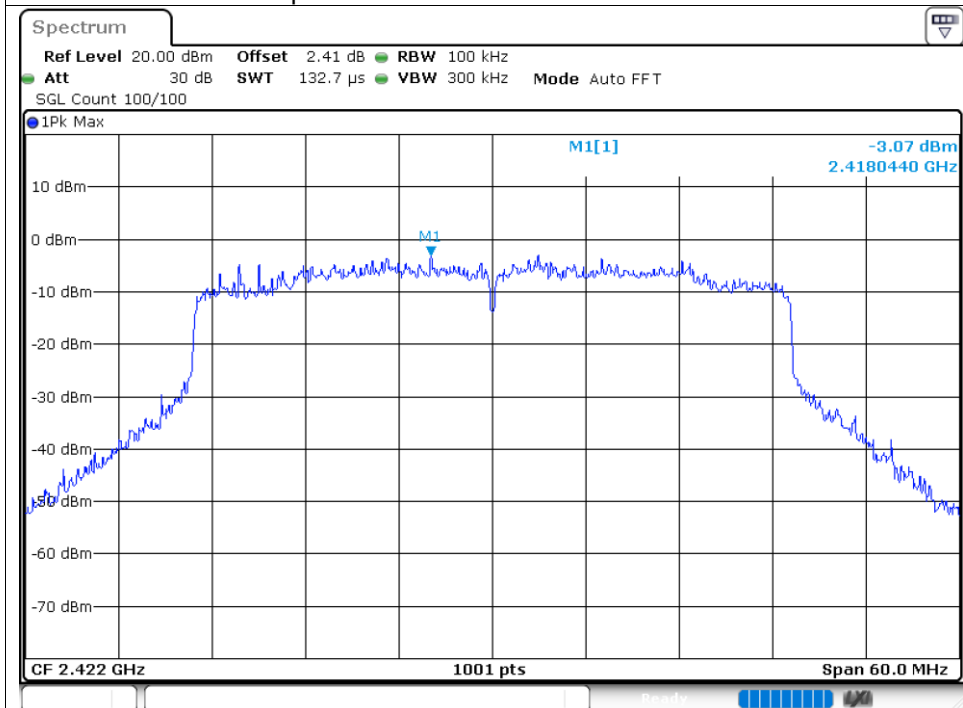
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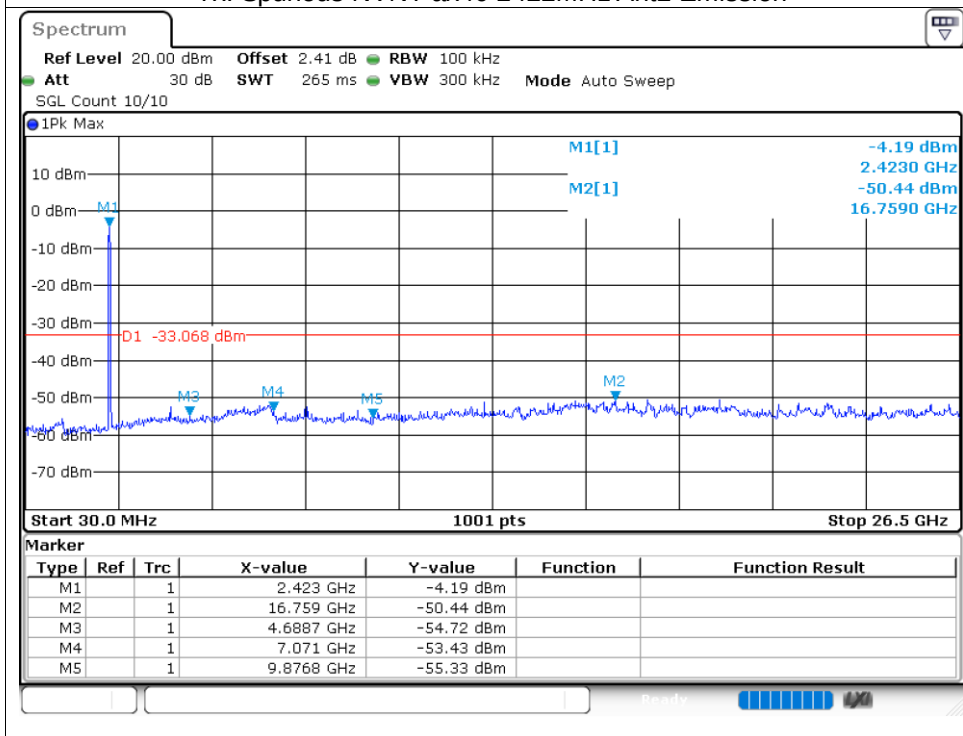
Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



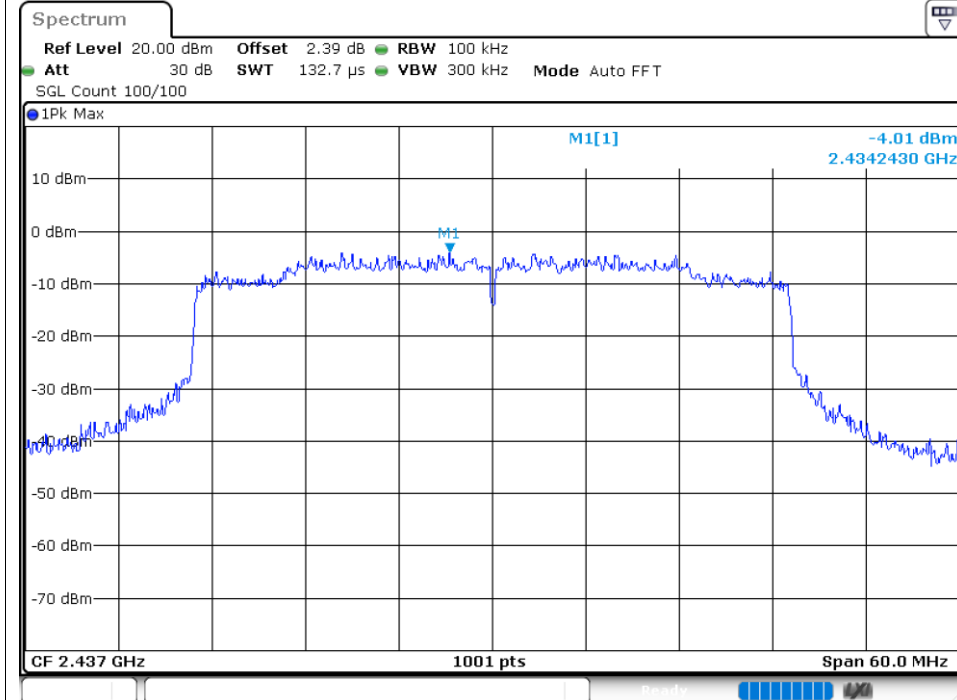
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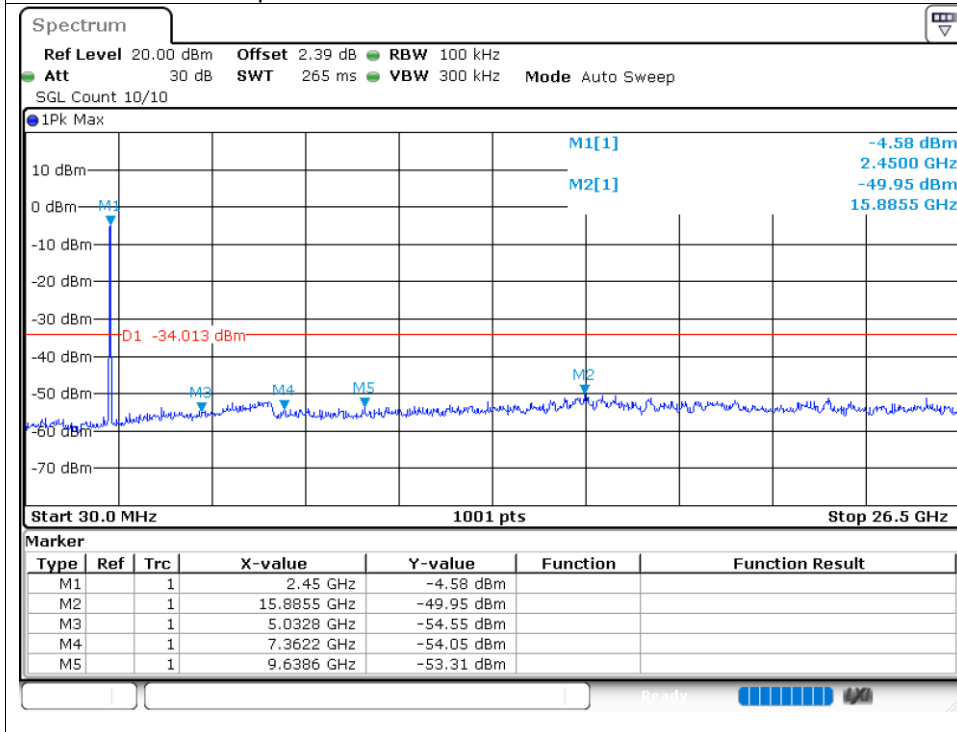
Tx. Spurious NVNT ax40 2422MHz Ant2 Emission



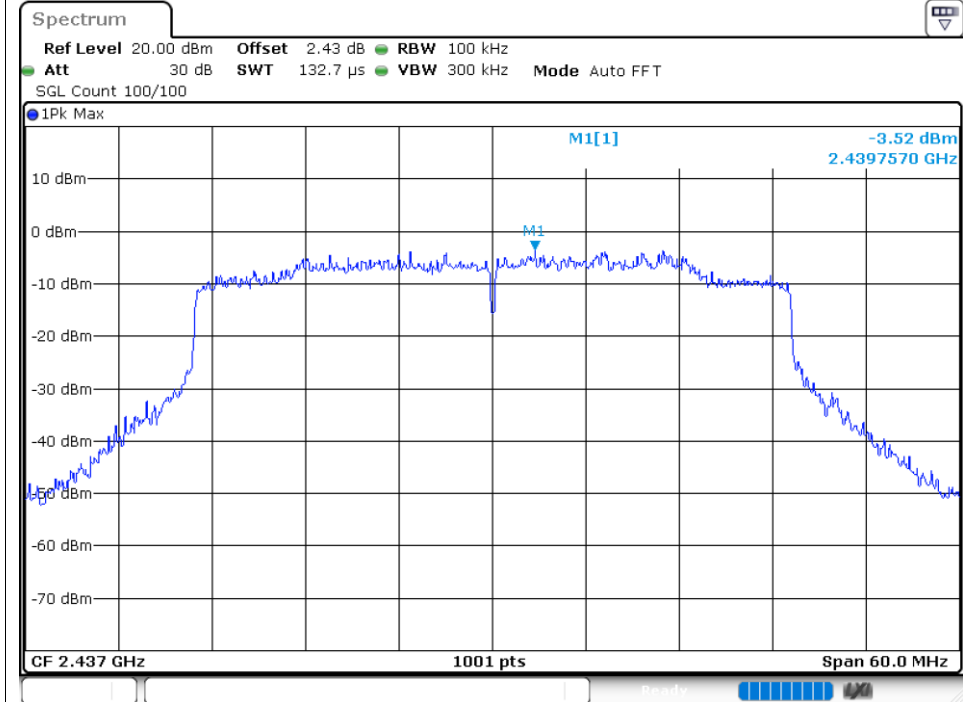
Tx. Spurious NVNT ax40 2437MHz Ant1 Ref



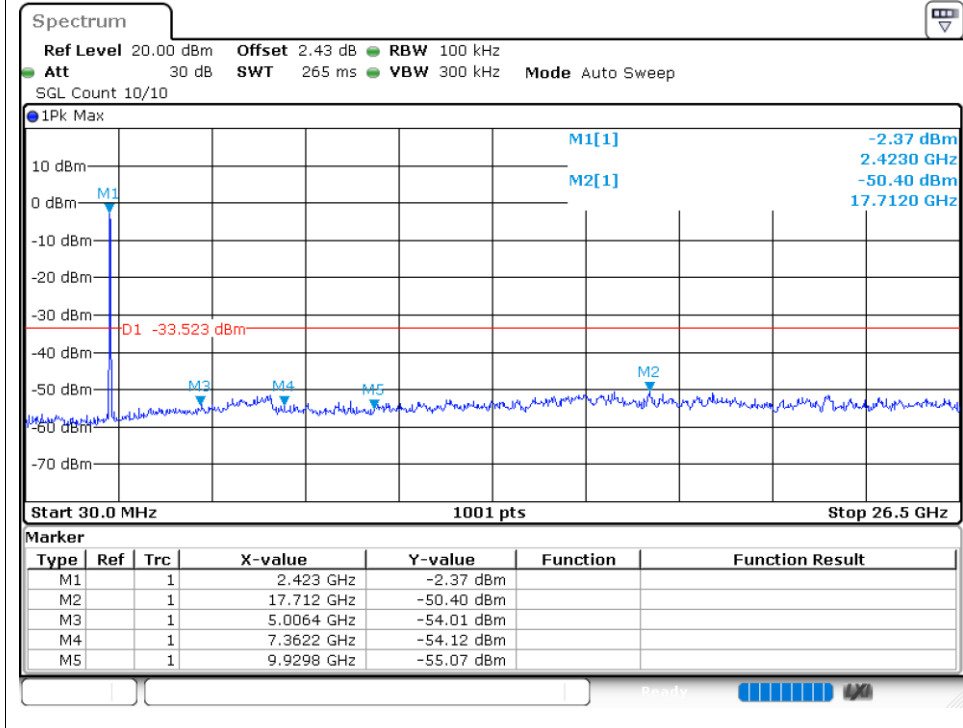
Tx. Spurious NVNT ax40 2437MHz Ant1 Emission



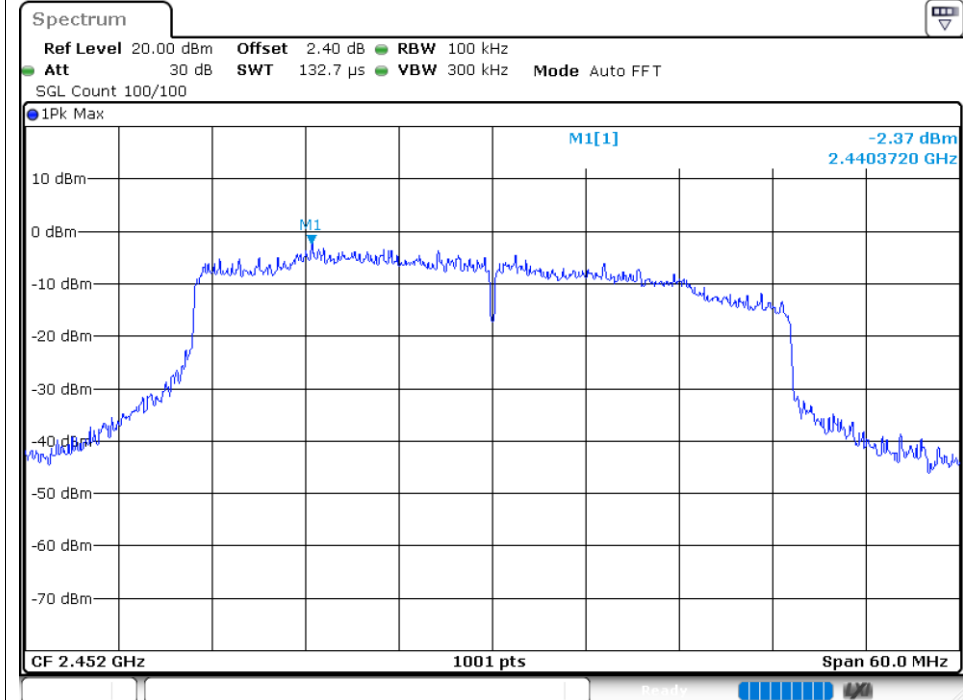
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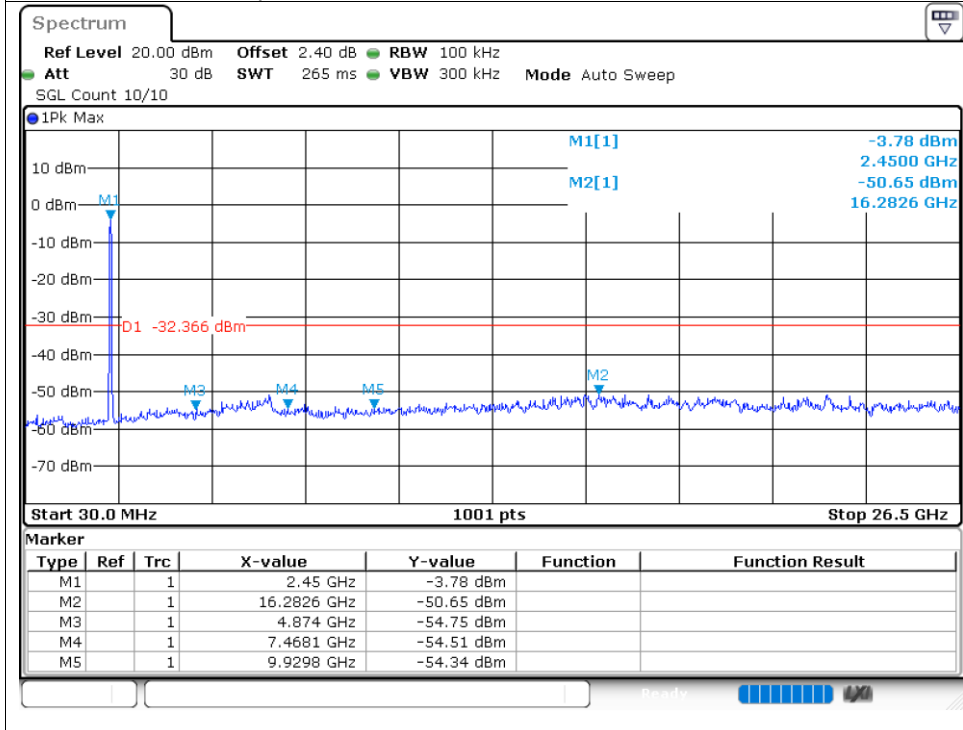
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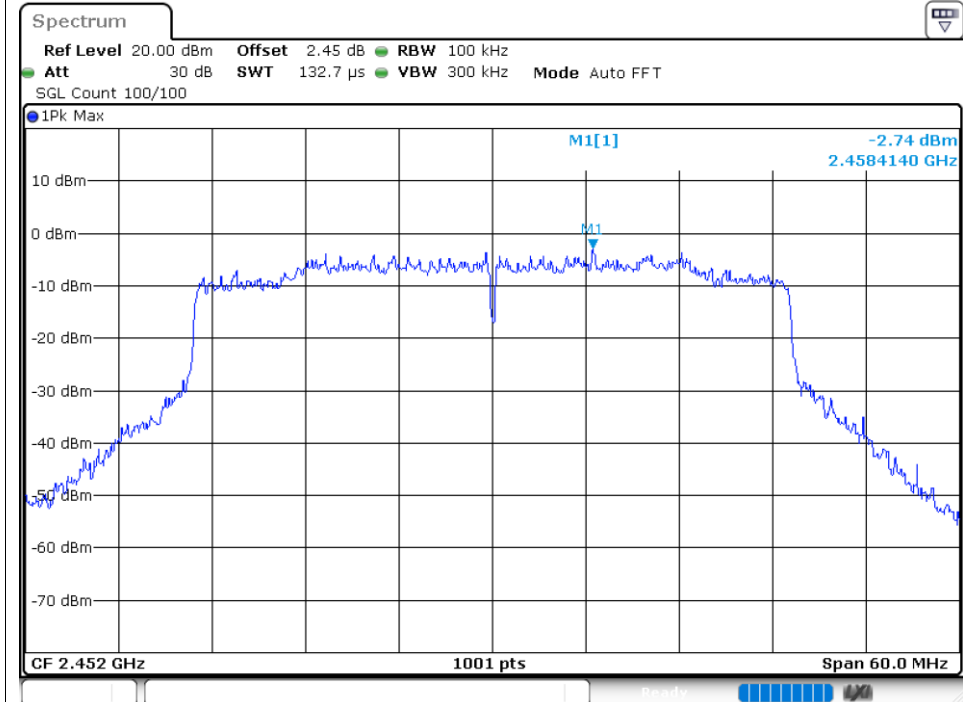
Tx. Spurious NVNT ax40 2452MHz Ant1 Ref



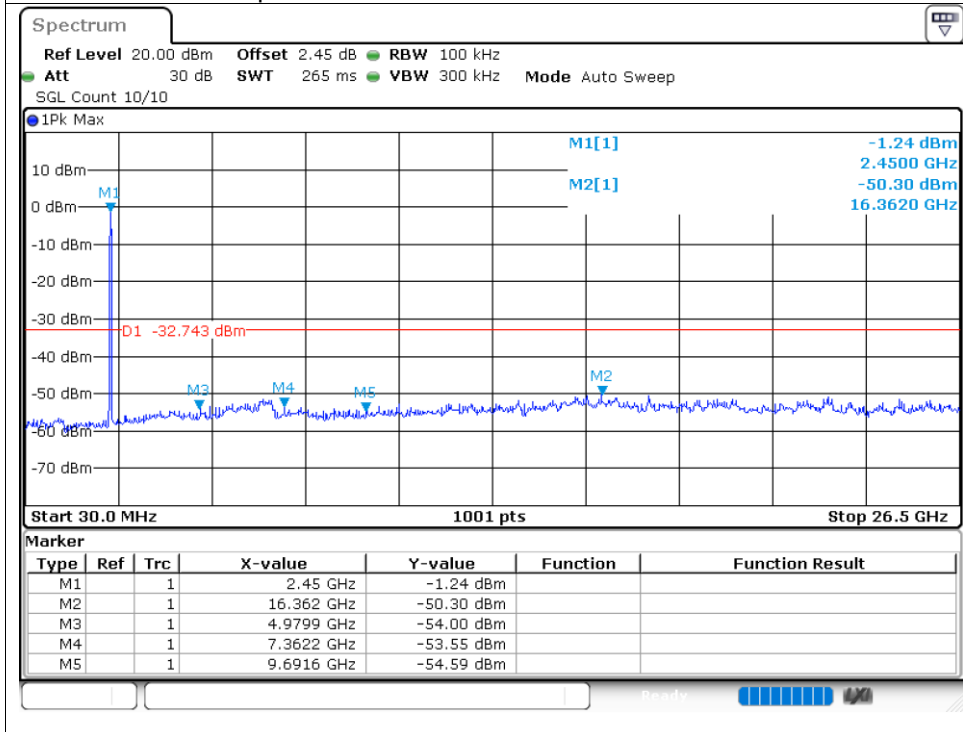
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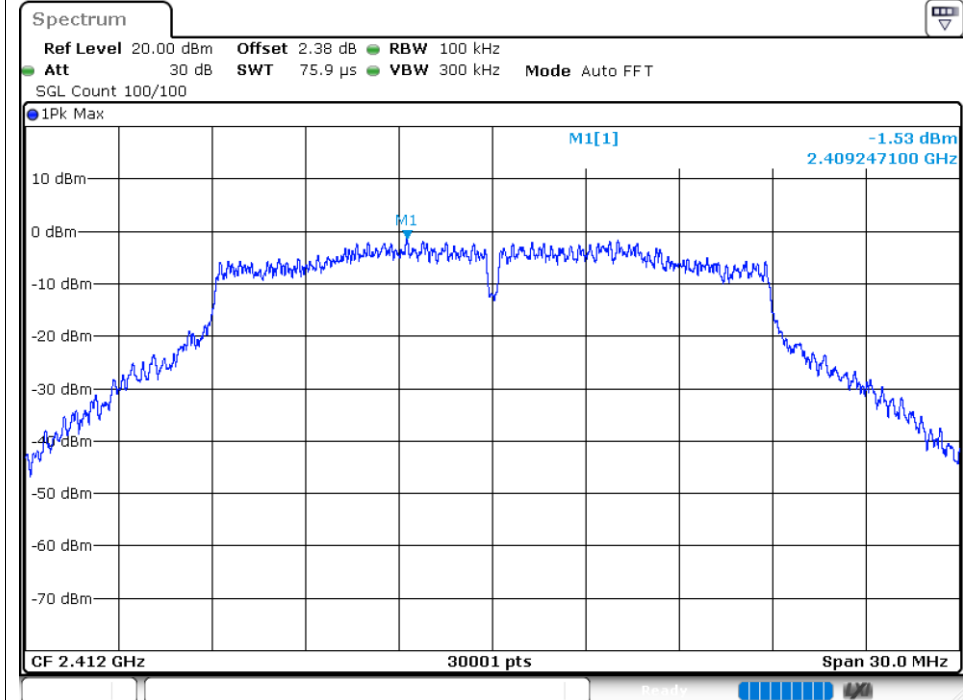
Tx. Spurious NVNT ax40 2452MHz Ant2 Ref



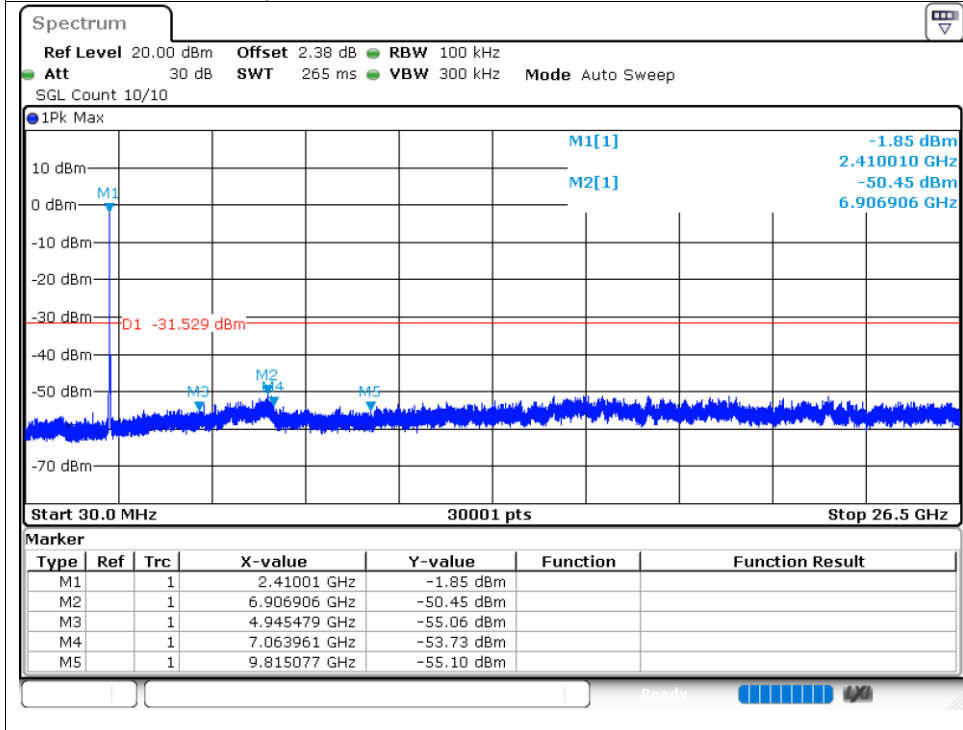
Tx. Spurious NVNT ax40 2452MHz Ant2 Emission



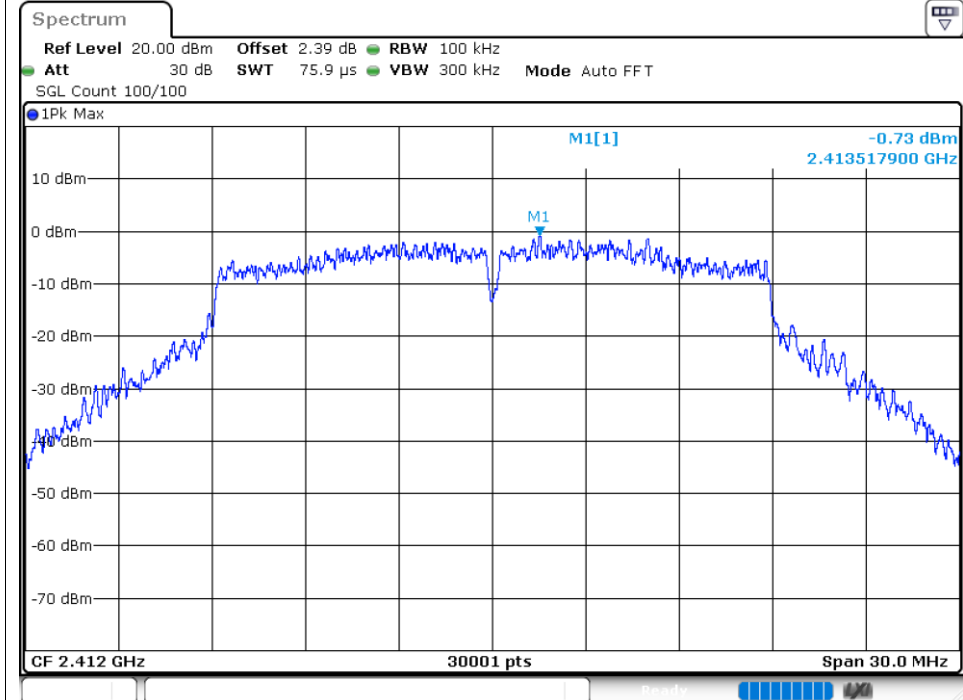
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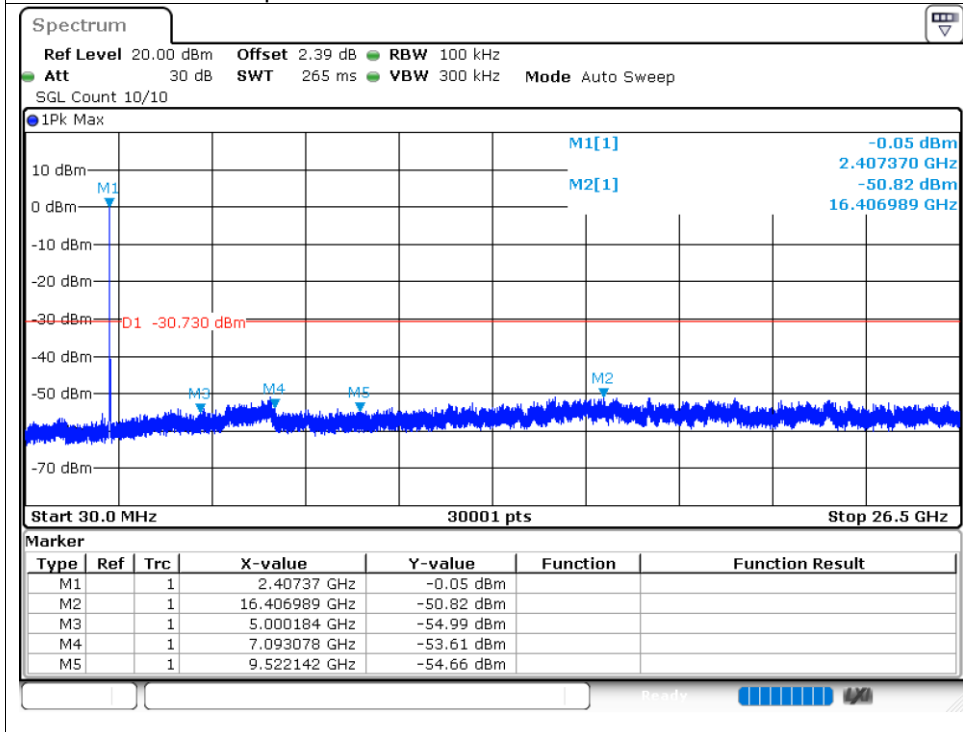
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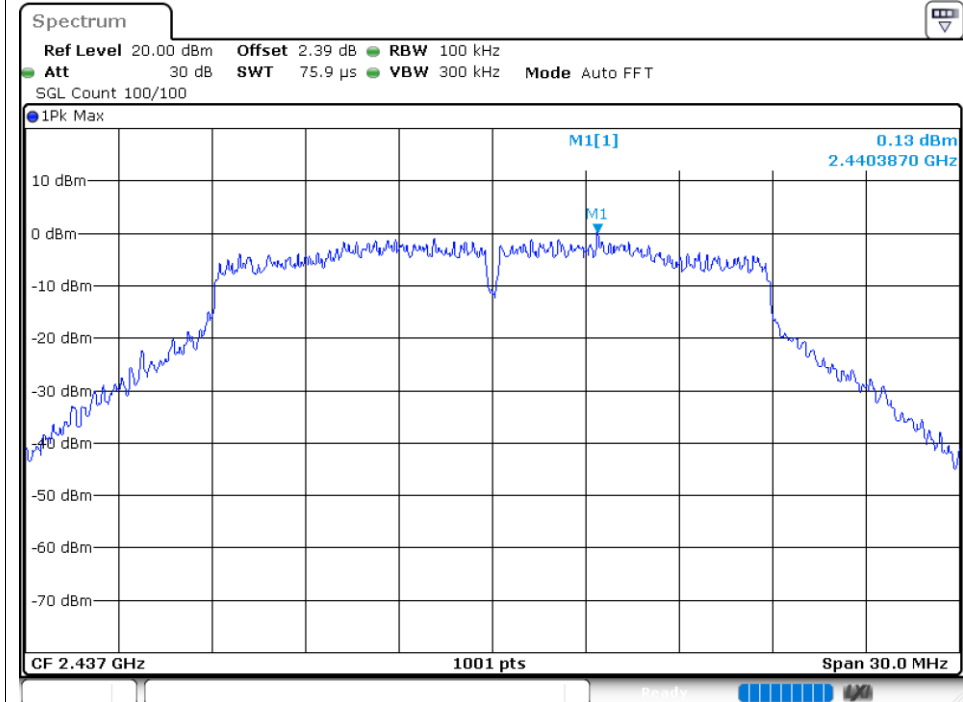
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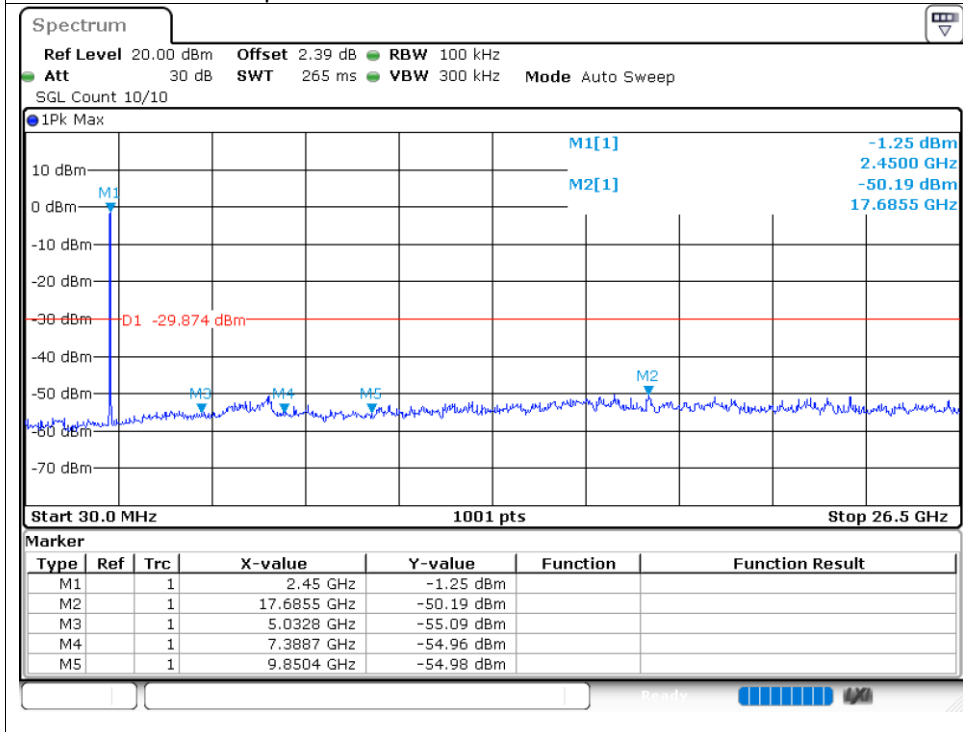
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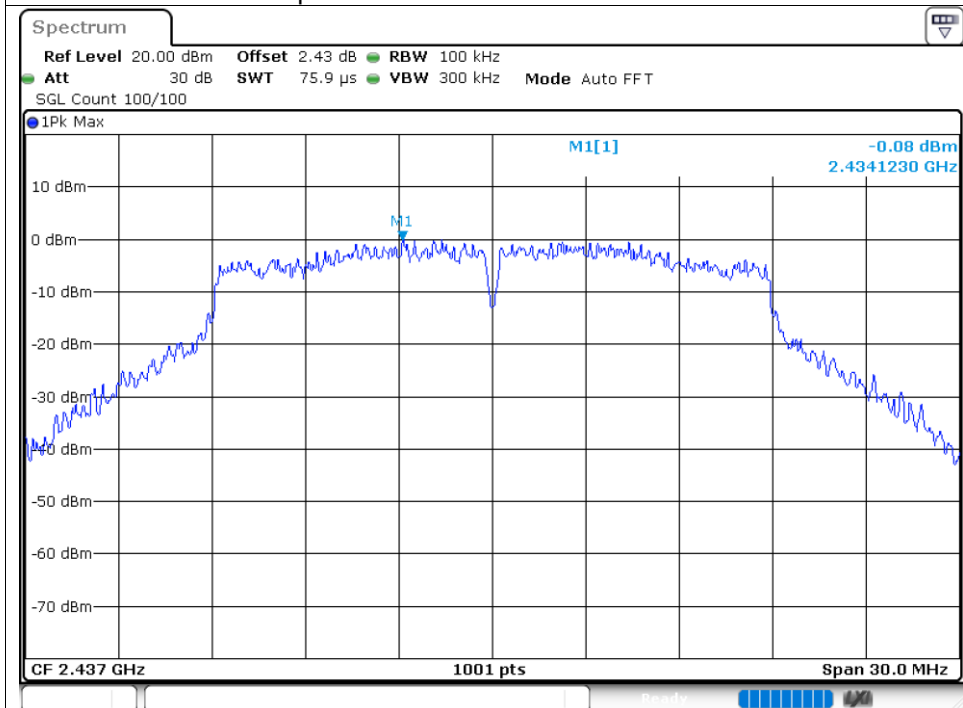
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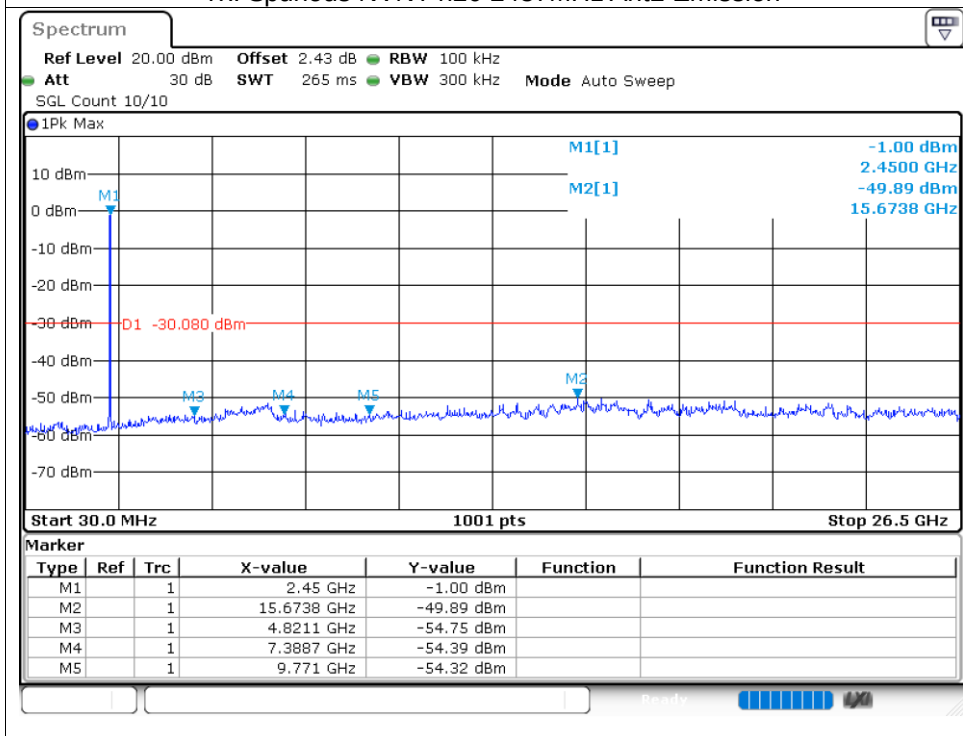
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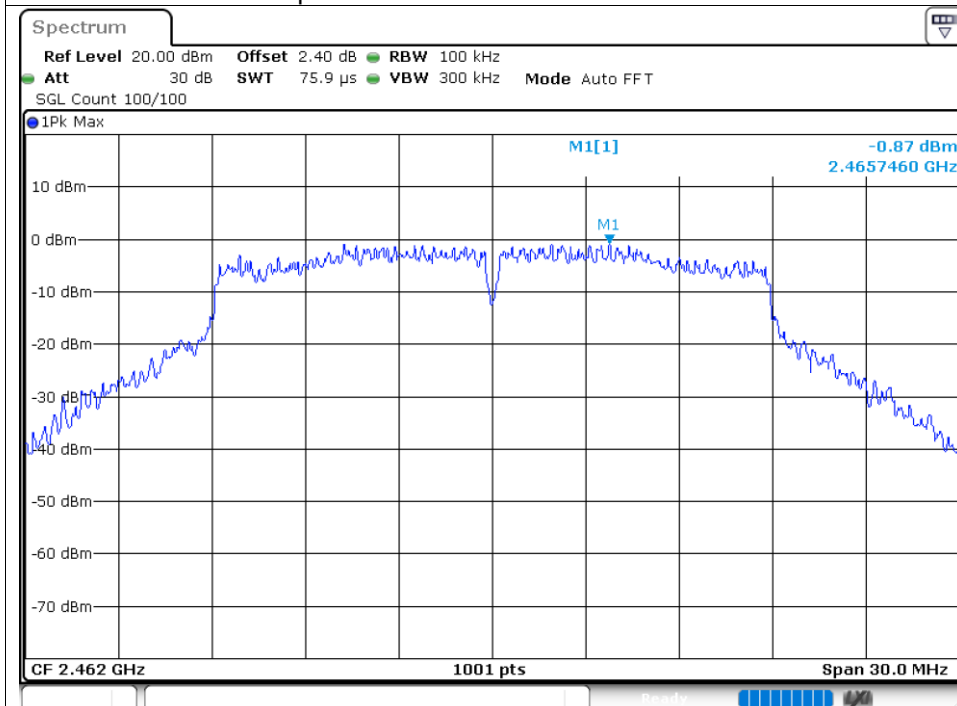
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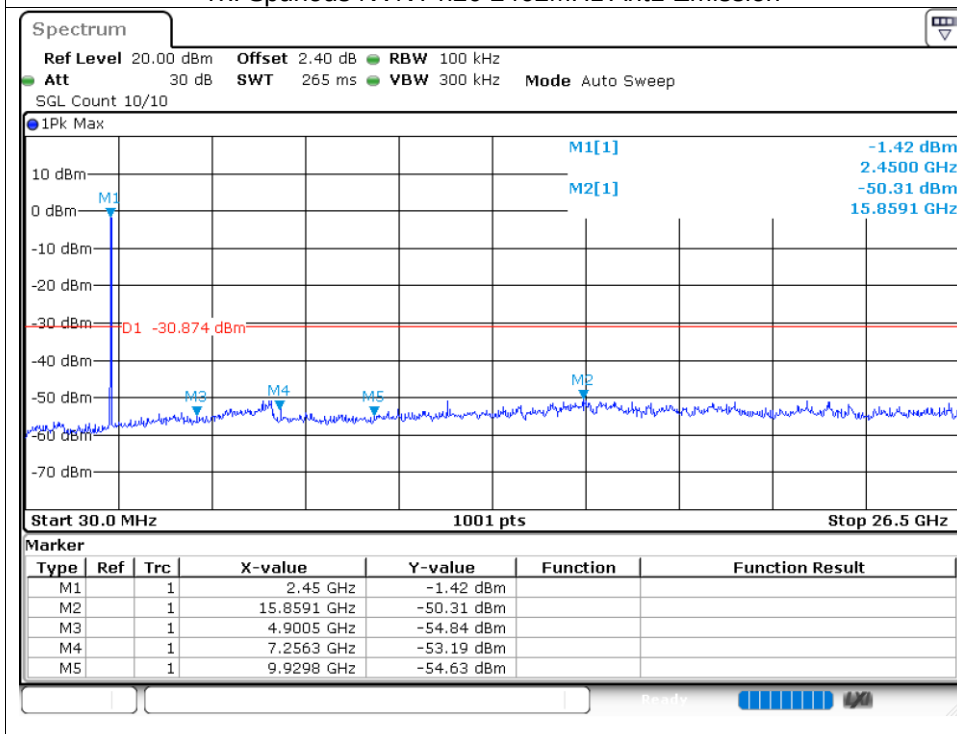
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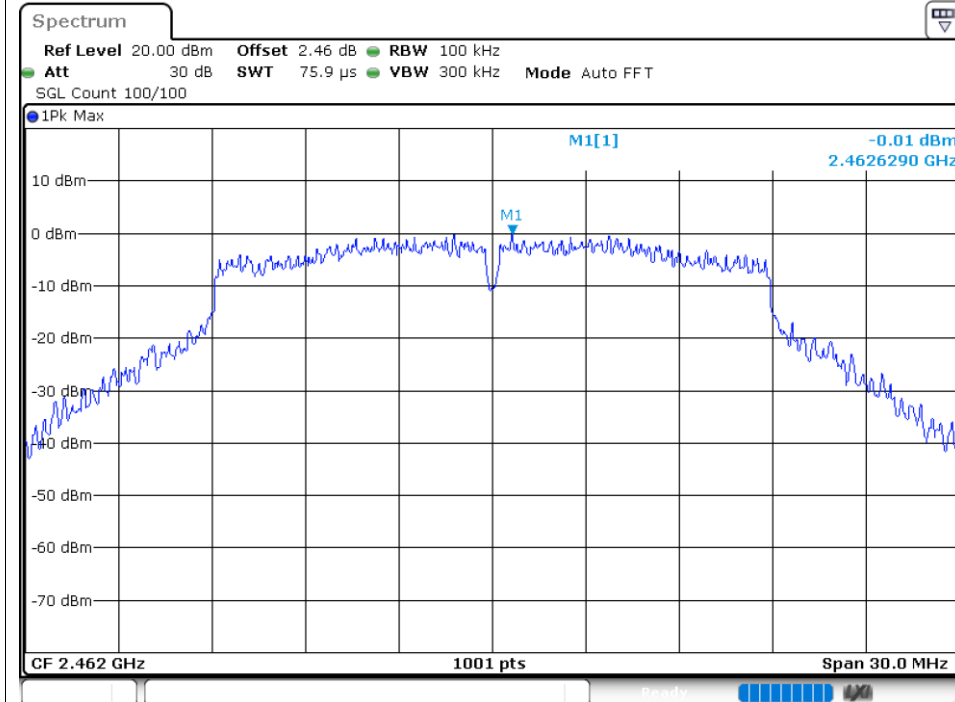
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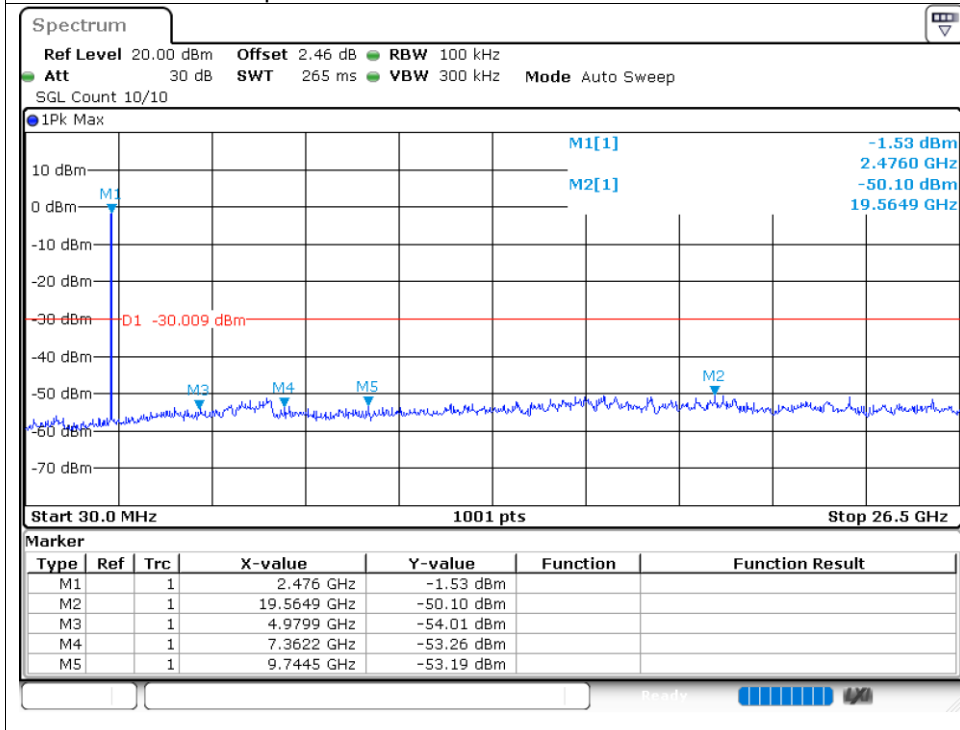
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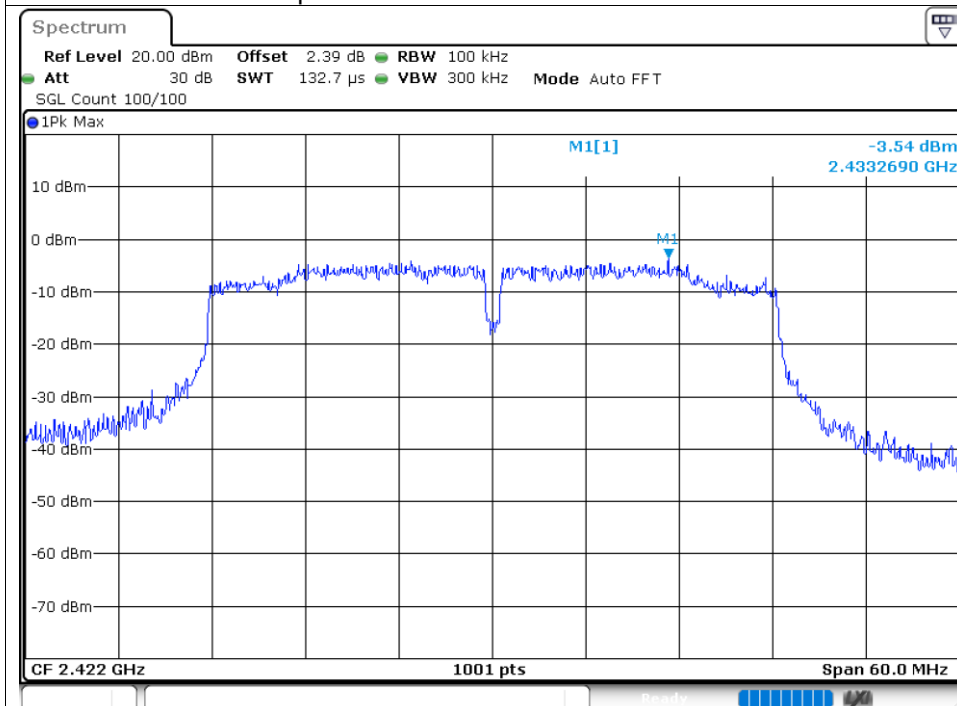
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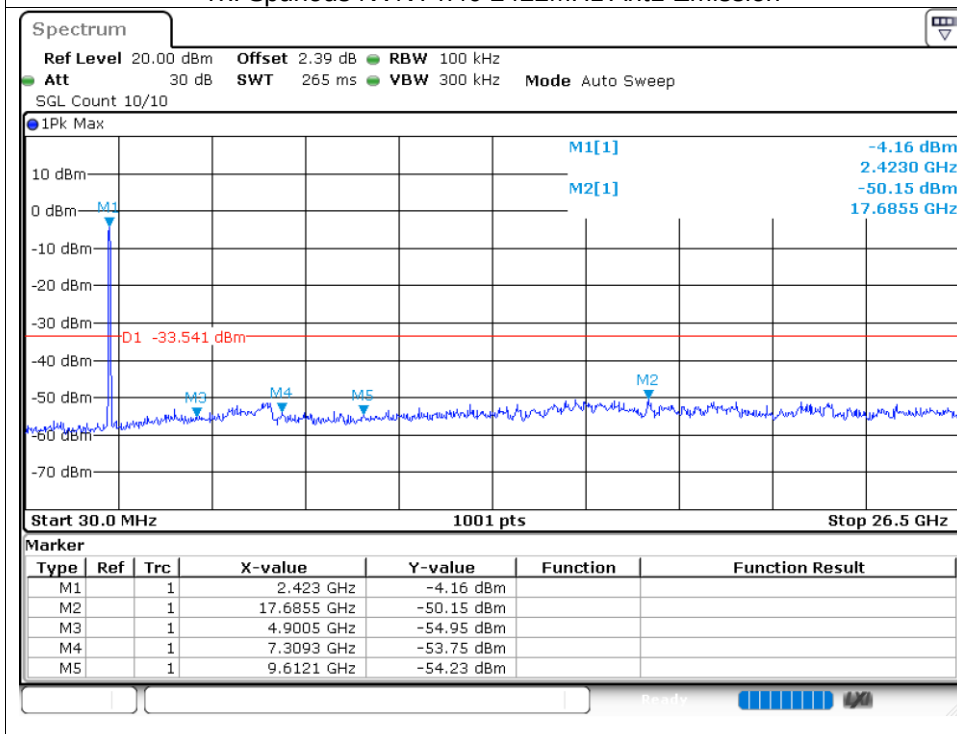
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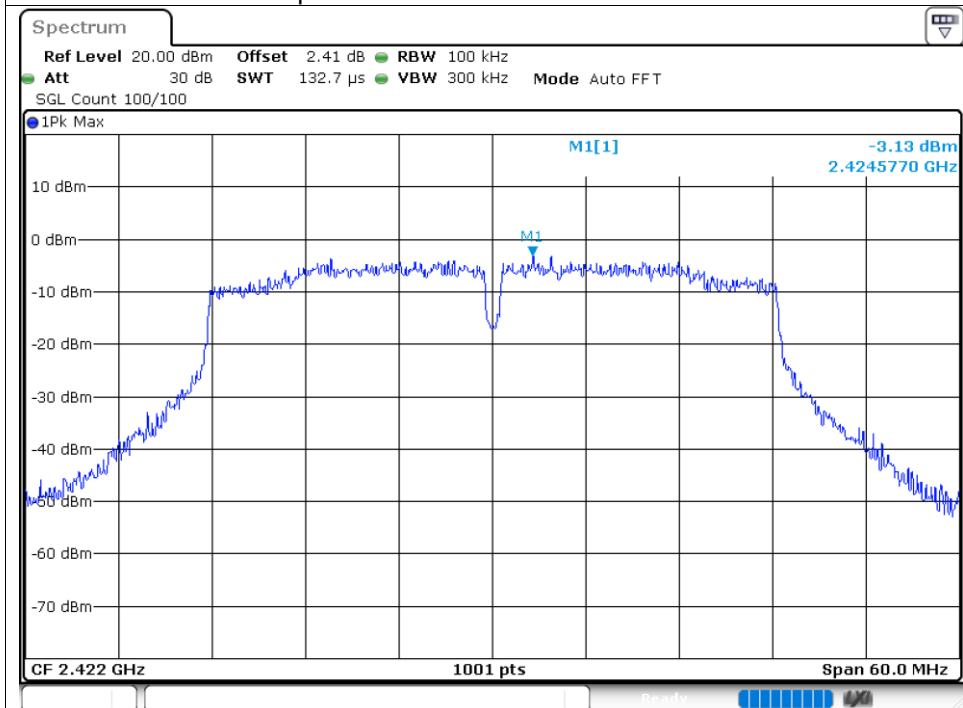
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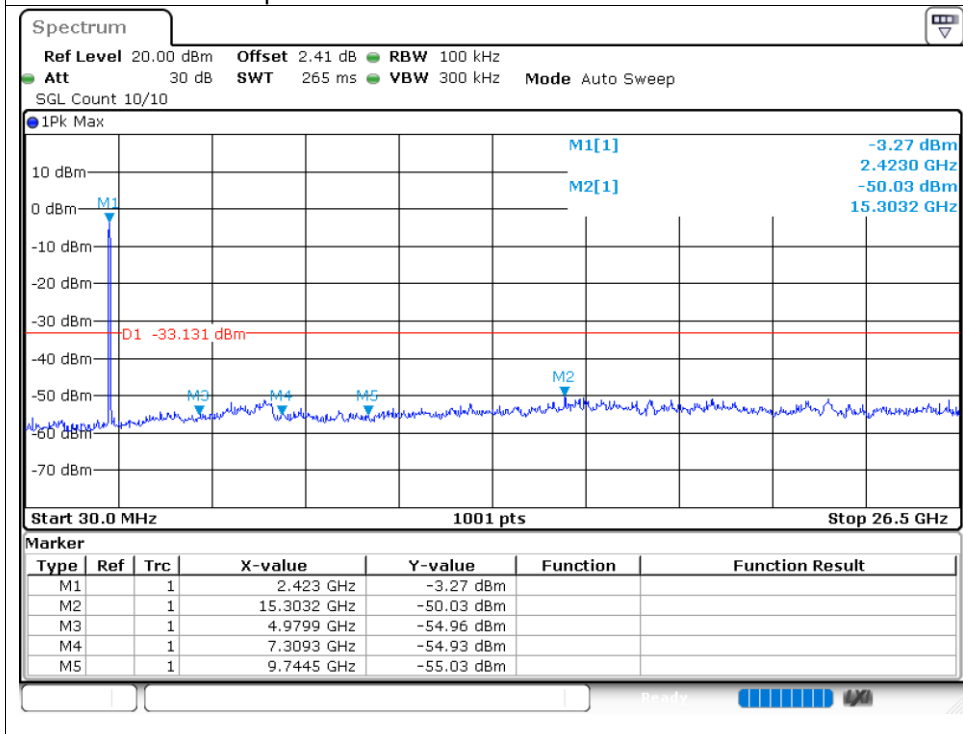
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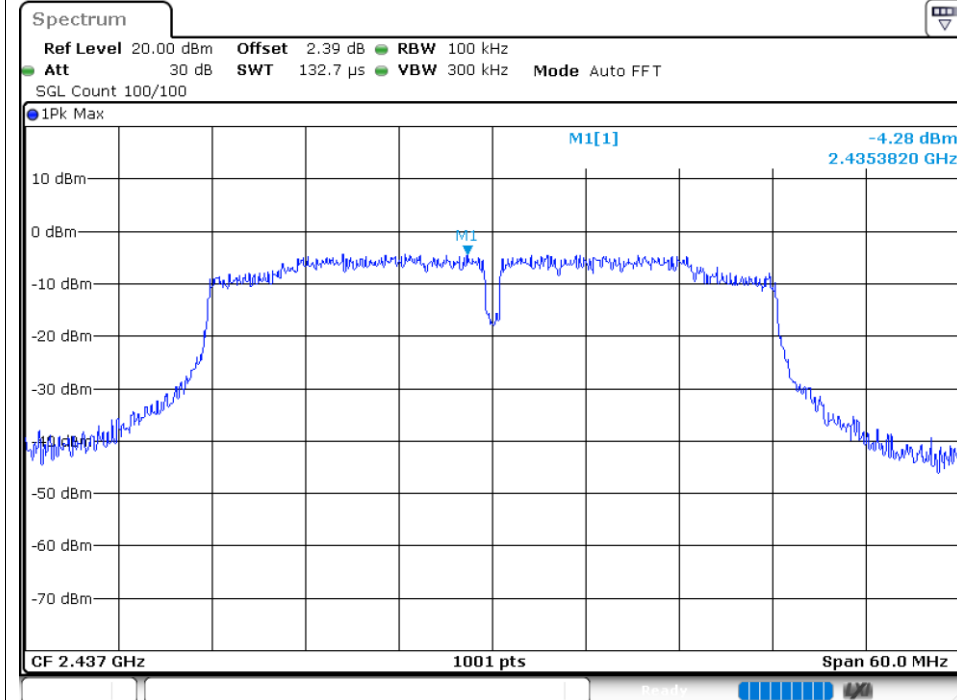
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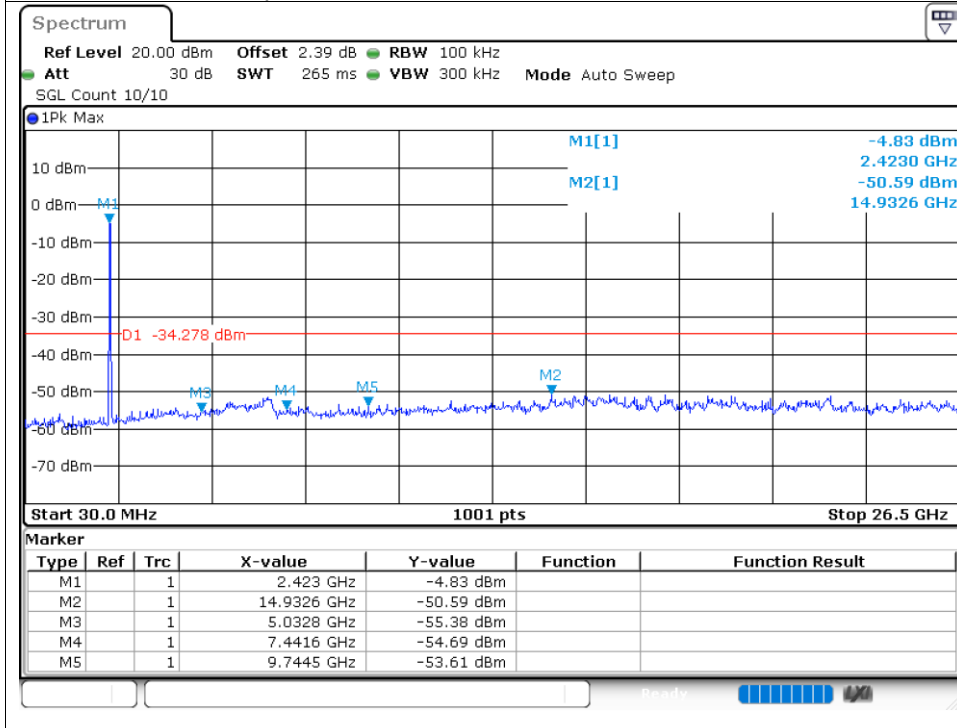
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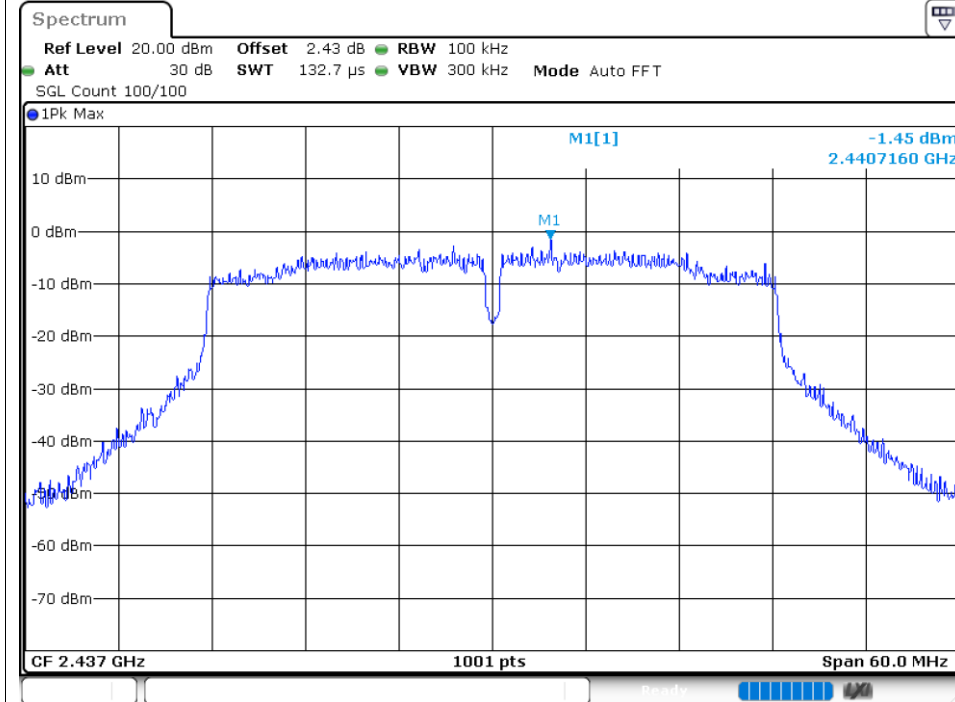
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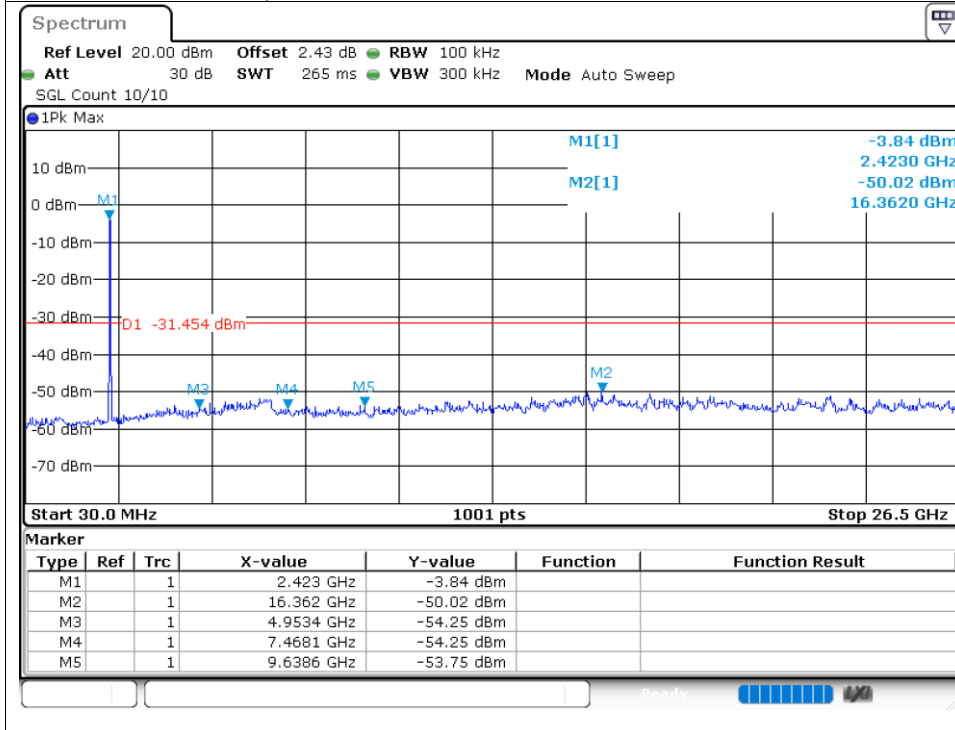
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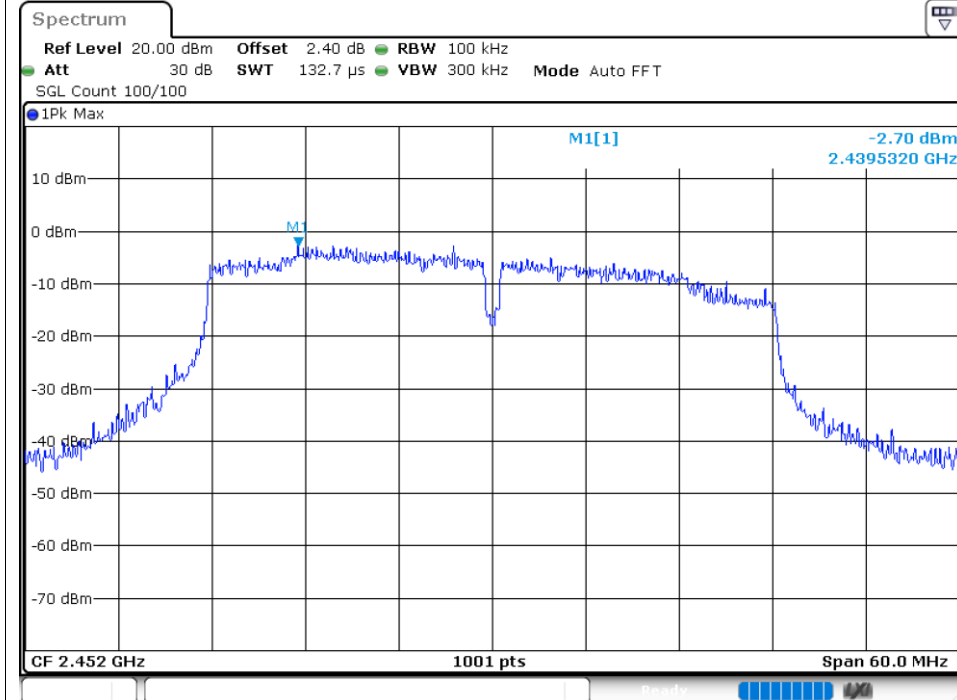
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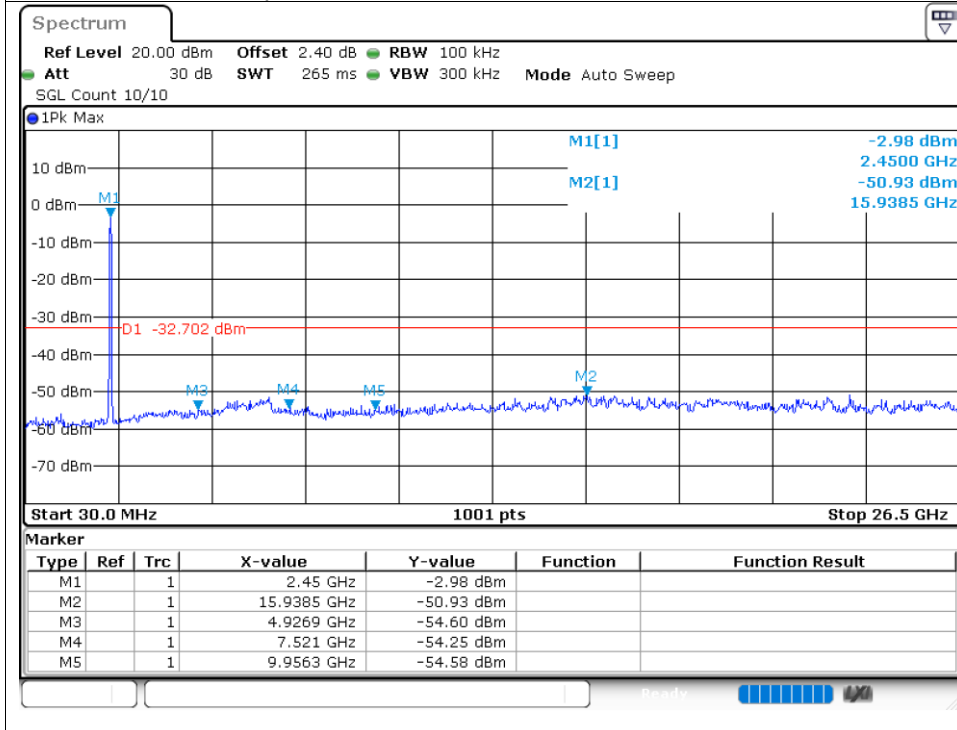
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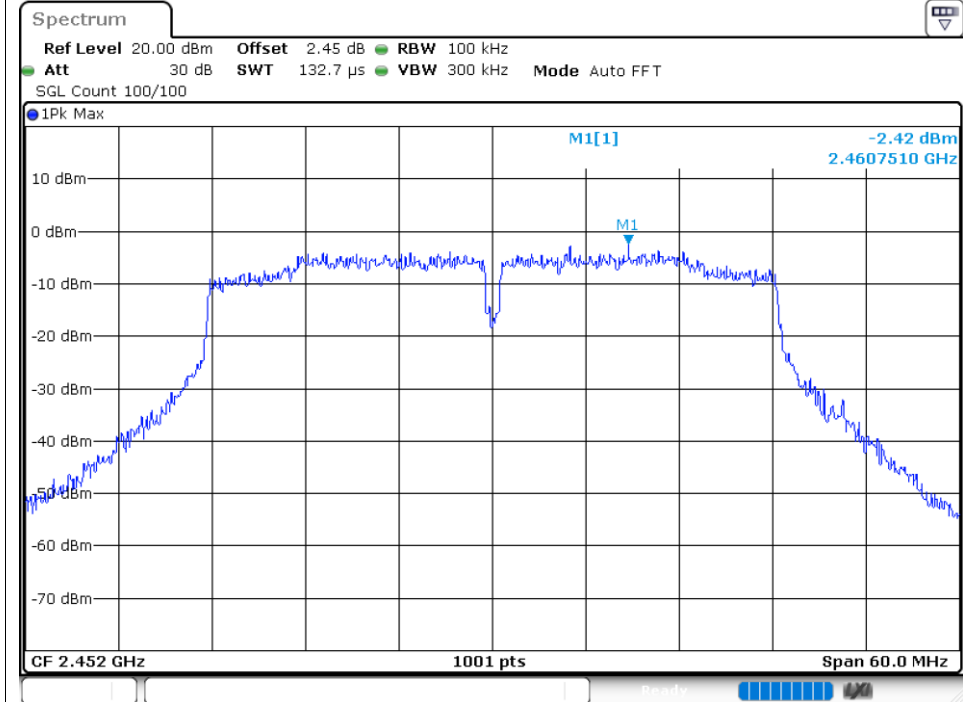
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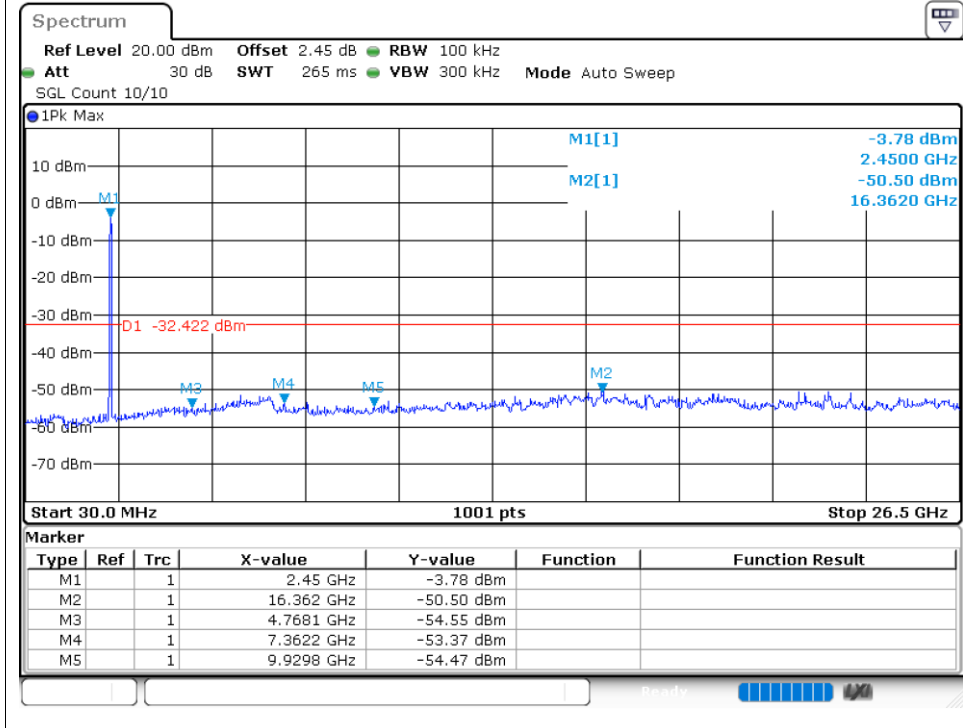
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



END OF REPORT