

FCC RADIO TEST REPORT

FCC ID: 2ARKN-PORTAL

Product: Hybrid Vr Portable Computer

Trade Mark: Pimax

Model No.: Portal QLED

Family Model: Portal

Report No.: S22102101925004

Issue Date: May 19, 2023

Prepared for

Pimax Technology (Shanghai) Co., Ltd.

Building A, Building 1, 3000 Longdong Avenue, China (Shanghai) Pilot Free Trade
Zone 406-C Shanghai P.R. China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name.....	Pimax Technology (Shanghai) Co., Ltd.
Address	Building A, Building 1, 3000 Longdong Avenue, China (Shanghai) Pilot Free Trade Zone 406-C Shanghai P.R. China
Manufacturer's Name	Pimax Technology (Shanghai) Co., Ltd.
Address	Building A, Building 1, 3000 Longdong Avenue, China (Shanghai) Pilot Free Trade Zone 406-C Shanghai P.R. China
Factory's Name	Pimax Technology (Rizhao) Co., Ltd.
Address	3/F, South Zone, A6 workshop, Electronic Industrial Park , Gaoxin 7th Road, Rizhao High-tech Zone, Shandong Province, China
Product description	
Product name.....	Hybrid Vr Portable Computer
Trade Mark.....	Pimax
Model and/or type reference	Portal QLED
Family Model.....	Portal
Test Sample Number	S221021019030

Measurement Procedure Used:

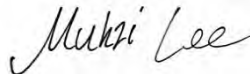
APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01	Complied

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.

Date of Test : Feb. 08, 2023 ~ May 18, 2023

Testing Engineer : 
(Mukzi Lee)

Authorized Signatory : 
(Alex Li)

2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C

Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	N/A	
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 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen
518126 P.R. 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.

IC-Registration

FCC- Accredited

A2LA-Lab.

Name of Firm

Site Location

: The Certificate Registration Number is L5516.

The Certificate Registration Number is 9270A.

CAB identifier:CN0074

Test Firm Registration Number: 463705.

Designation Number: CN1184

The Certificate Registration Number is 4298.01

: Shenzhen NTEK Testing Technology Co., Ltd.

: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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(9KHz~30MHz)	$\pm 6\text{dB}$
5	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
6	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
7	All emissions, radiated(>6GHz)	$\pm 2.52\text{dB}$
8	Temperature	$\pm 0.5^\circ\text{C}$
9	Humidity	$\pm 2\%$

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Hybrid Vr Portable Computer
Trade Mark	Pimax
FCC ID	2ARKN-PORTAL
Model No.	Portal QLED
Family Model	Portal
Model Difference	All models are the same circuit and RF module, only the screen material and memory size are different.
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20)/11ax(HE20); 2422-2452MHz for 802.11n(HT40)/11ax(HE40);
Modulation	IEEE 802.11b : DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax(HE20/HE40): OFDMA (QPSK/BPSK/16QAM/64QAM/256QAM)
Number of Channels	802.11b/g/11n(HT20): 11; 802.11n(HT40): 7
Antenna Type	FPC Antenna
Antenna Gain	Ant1: 1.5dBi; Ant2: 1.1dBi
Smart system	☒ SISO for 802.11b/g ☒ MIMO for 802.11n/ax
Adapter	N/A
Battery	DC 3.85V, 3886mAh
Power Rating	DC 3.85V powered by battery or DC 5V or DC 9V powered by Type-C port.
Hardware Version	V2.0
Software Version	0929

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.

Revision History

Report No.	Version	Description	Issued Date
S22102101925004	Rev.01	Initial issue of report	May 19, 2023

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): MCS0; 802.11n (HT40): MCS0; 802.11ax(HE20): MCS0; 802.11ax(HE40): 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 (HT20/HT40) /ax (HE20/HE40):

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

This EUT has two antennas, and different modes support different transmit mode what describe as following:

Mode	Tx/Rx
802.11b/g	1TX, 1RX
802.11n/ax	2TX, 2RX

For 2.4GHz band, 802.11n(HT20/HT40)/ax(HE20/HE40) has MIMO mode, Antenna 1,2 are simultaneous transmissions.

Directional gain = $G_{\text{ANT MAX}} + 10\log(N_{\text{ANT}}/N_{\text{SS}})\text{dBi} = 1.5 + 3.01\text{ dBi} = 4.51\text{dBi}$

where NSS = the number of independent spatial streams of data and GANT MAX is the gain of the antenna having the highest gain (in dBi).

Note: Most devices can operate with one spatial stream (NSS = 1, where NSS is the number of spatial streams) even if they also are capable of more spatial streams. The worst case directional gain will occur when NSS = 1; therefore, it is especially important to ensure that the device complies with all emission limits for the case of NSS = 1 (or with the lowest possible value of NSS, if the device always uses spatial multiplexing).

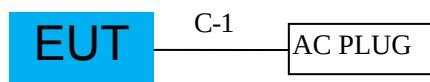
Test Mode:

Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	-	-	-	-
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20/HE20	MCS0	1/6/11	1/2
	11n HT40/HE40	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/HE20	MCS0	1/6/11	1/2
	11n HT40/HE40	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/HE20	MCS0	1/6/11	1/2
	11n HT40/HE40	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/HE20	MCS0	1/6/11	1/2
	11n HT40/HE40	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/HE20	MCS0	1/6/11	1/2
	11n HT40/HE40	MCS0	3/6/9	1/2

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: 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.

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	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Type-C Cable	NO	NO	1m
C-2	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

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2022.04.07 2023.03.27	2023.04.06 2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.06.16	2023.06.15	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06 2023.03.27	2023.04.05 2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30 2023.03.16	2023.03.29 2024.03.15	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
7	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2022.11.07	2023.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2022.11.04	2023.11.03	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2022.06.16	2023.06.15	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2020.04.07 2023.03.27	2023.04.06 2026.03.26	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	2022.04.06 2023.03.27	2023.04.05 2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2022.04.06 2023.03.27	2023.04.05 2024.03.26	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2022.04.06 2023.03.27	2023.04.05 2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11 2023.05.09	2023.05.10 2026.05.08	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11 2023.05.09	2023.05.10 2026.05.08	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11 2023.05.09	2023.05.10 2026.05.08	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.

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

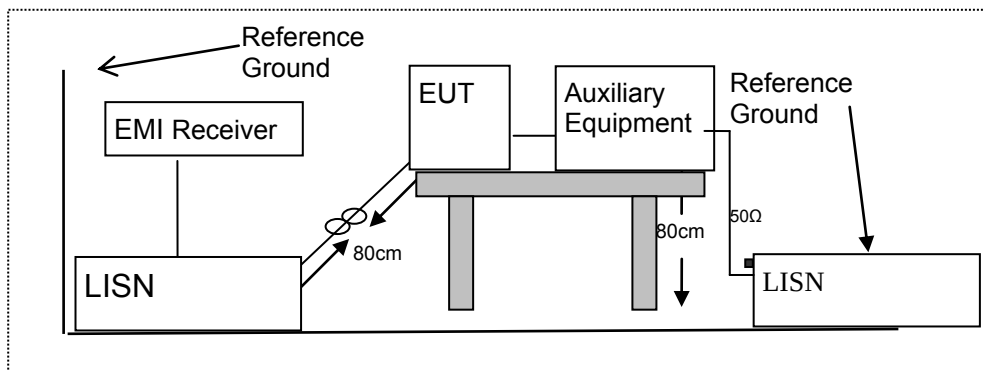
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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.

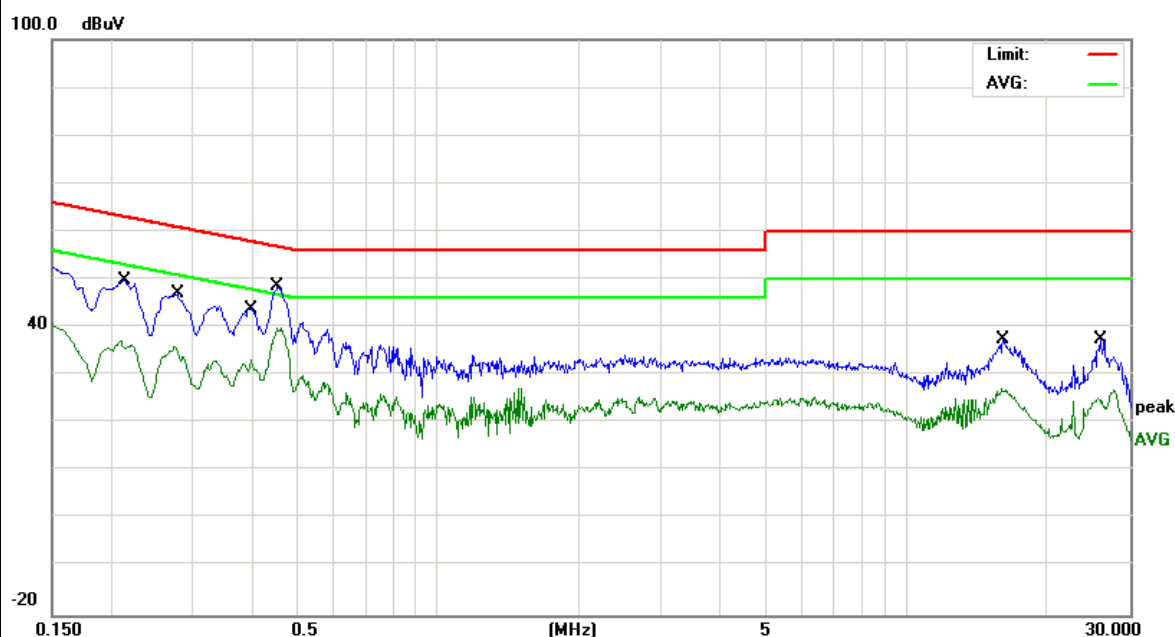
7.1.6 Test Results

EUT:	Hybrid Vr Portable Computer	Model Name :	Portal QLED
Temperature:	20.7 °C	Relative Humidity:	47%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V powered by Adapter AC 230V/50Hz	Test Mode:	Normal Link

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2140	40.10	9.62	49.72	63.04	-13.32	QP
0.2140	27.67	9.62	37.29	53.04	-15.75	AVG
0.2779	37.28	9.64	46.92	60.88	-13.96	QP
0.2779	26.37	9.64	36.01	50.88	-14.87	AVG
0.3980	34.09	9.65	43.74	57.89	-14.15	QP
0.3980	23.63	9.65	33.28	47.89	-14.61	AVG
0.4540	38.76	9.66	48.42	56.80	-8.38	QP
0.4540	30.11	9.66	39.77	46.80	-7.03	AVG
16.0820	27.30	10.11	37.41	60.00	-22.59	QP
16.0820	17.05	10.11	27.16	50.00	-22.84	AVG
25.9300	27.17	10.31	37.48	60.00	-22.52	QP
25.9300	16.66	10.31	26.97	50.00	-23.03	AVG

Remark:

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

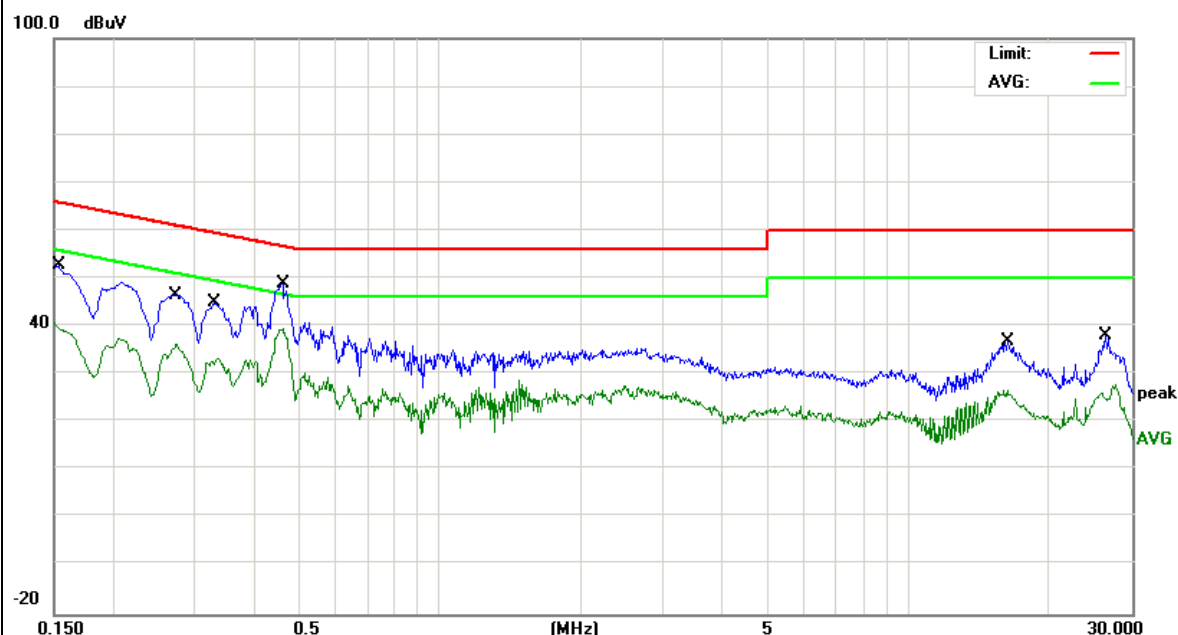


EUT:	Hybrid Vr Portable Computer	Model Name :	Portal QLED
Temperature:	20.7 °C	Relative Humidity:	47%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V powered by Adapter AC 230V/50Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1539	42.95	9.65	52.60	65.78	-13.18	QP
0.1539	30.99	9.65	40.64	55.78	-15.14	AVG
0.2740	36.87	9.63	46.50	60.99	-14.49	QP
0.2740	26.77	9.63	36.40	50.99	-14.59	AVG
0.3300	35.21	9.65	44.86	59.45	-14.59	QP
0.3300	23.65	9.65	33.30	49.45	-16.15	AVG
0.4620	39.32	9.66	48.98	56.66	-7.68	QP
0.4620	29.96	9.66	39.62	46.66	-7.04	AVG
16.0940	26.56	10.07	36.63	60.00	-23.37	QP
16.0940	16.63	10.07	26.70	50.00	-23.30	AVG
26.2820	27.89	10.22	38.11	60.00	-21.89	QP
26.2820	17.61	10.22	27.83	50.00	-22.17	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

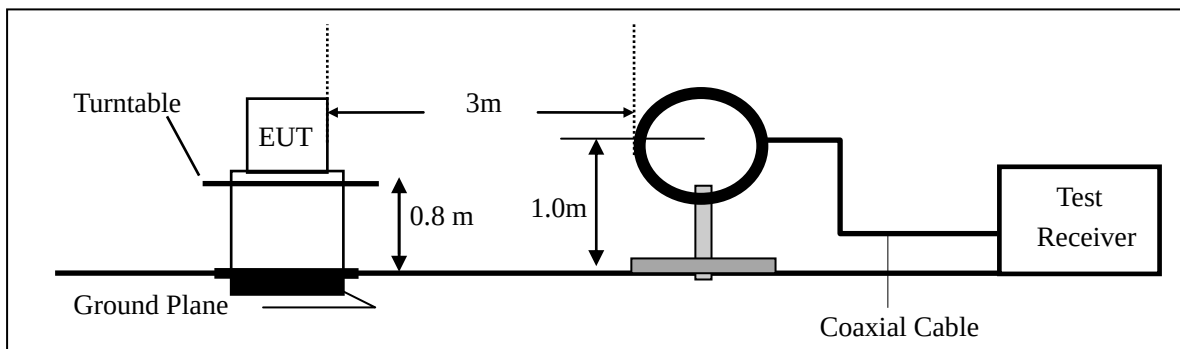
Remark : 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. For Frequency 9kHz~30MHz:
 Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
 Limit line=Specific limits(dBuV) + distance extrapolation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

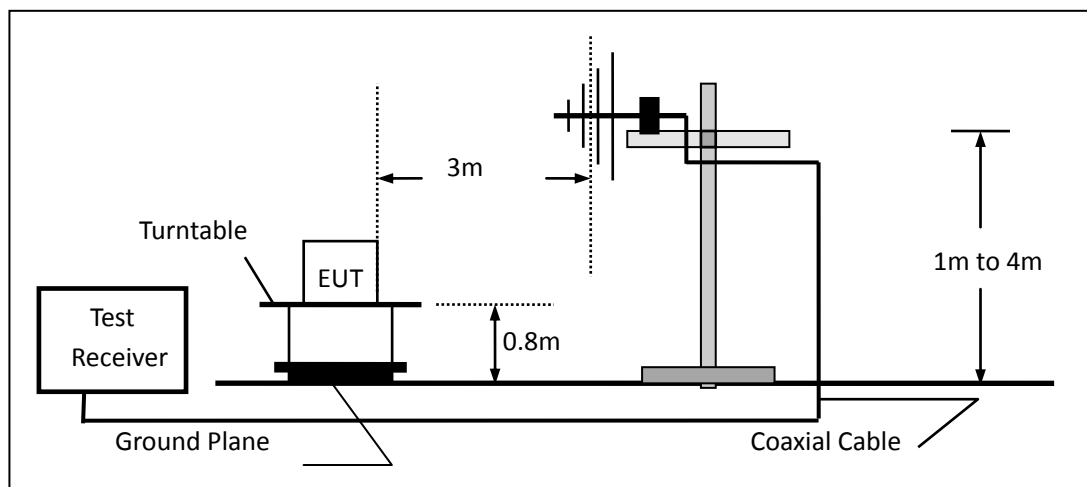
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

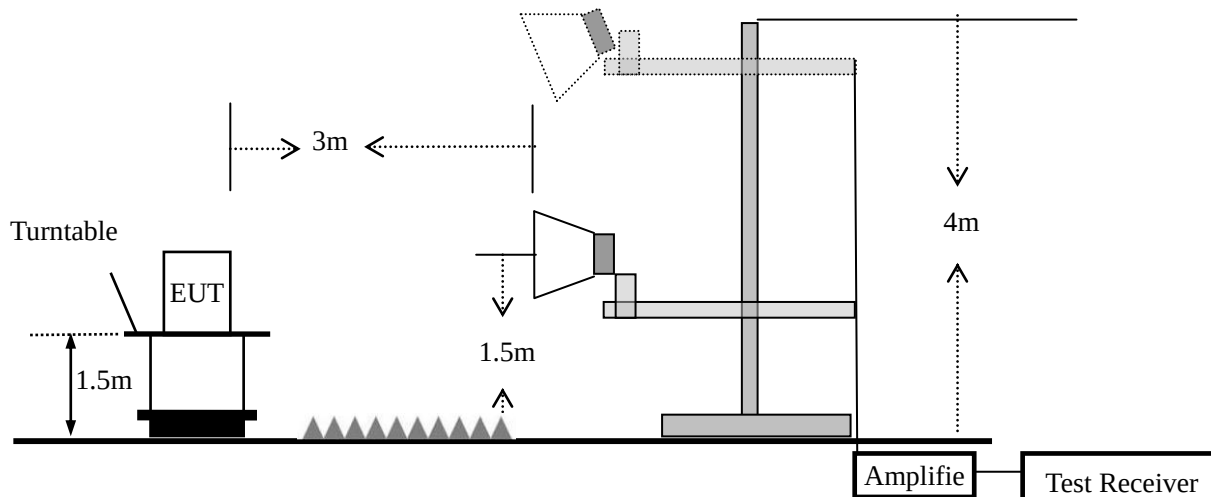
(a) For radiated emissions below 30MHz



(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 / 10Hz 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:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20, HT40)/ax(HE20, HE40)	Test By:	Mukzi Lee

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.

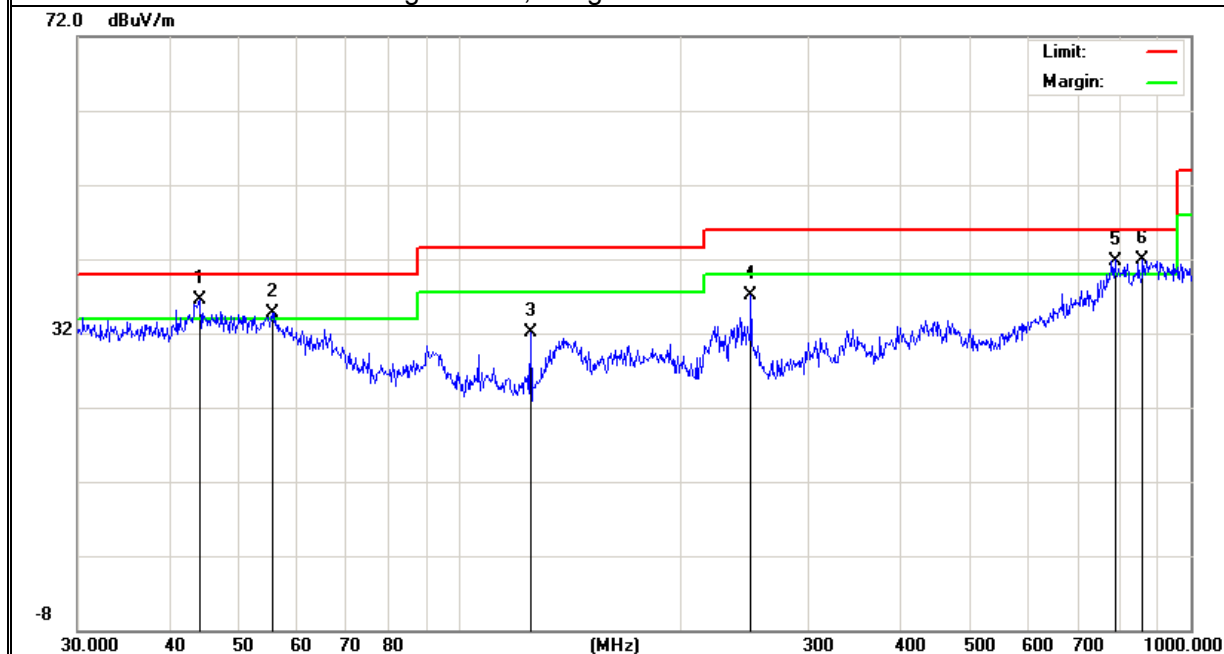
- Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Hybrid Vr Portable Computer	Model Name :	Portal QLED
Temperature:	25.4 °C	Relative Humidity:	47%
Pressure:	1010hPa	Test Mode:	802.11ax20 CH01 MIMO
Test Voltage :	DC 3.85V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	44.1202	18.20	18.29	36.49	40.00	-3.51	QP
V	55.4147	21.88	12.78	34.66	40.00	-5.34	QP
V	125.0066	13.43	18.74	32.17	43.50	-11.33	QP
V	250.3012	18.21	18.94	37.15	46.00	-8.85	QP
V	787.8513	12.40	29.40	41.80	46.00	-4.20	QP
V	860.0352	11.52	30.38	41.90	46.00	-4.10	QP

Remark:

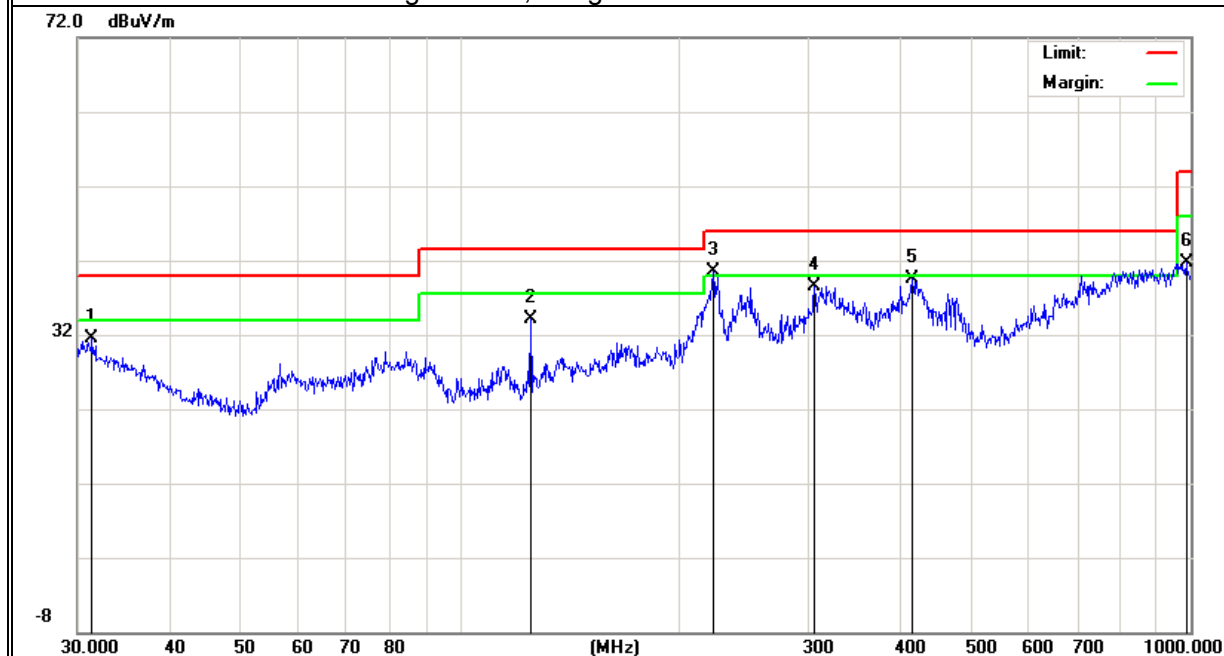
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	31.3992	6.12	25.35	31.47	40.00	-8.53	QP
H	125.0066	15.40	18.74	34.14	43.50	-9.36	QP
H	222.1698	23.36	17.20	40.56	46.00	-5.44	QP
H	305.6800	18.09	20.45	38.54	46.00	-7.46	QP
H	416.1791	15.84	23.71	39.55	46.00	-6.45	QP
H	986.0717	10.26	31.44	41.70	54.00	-12.30	QP

Remark:

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



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

EUT:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11ax(HE20) MIMO	Test By:	Mukzi Lee

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2412 MHz)(802.11ax(HE20) MIMO)--Above 1G									
4824	68.06	5.21	35.59	44.30	64.56	74.00	-9.44	Pk	Vertical
4824	46.27	5.21	35.59	44.30	42.77	54.00	-11.23	AV	Vertical
7236	66.31	6.48	36.27	44.60	64.46	74.00	-9.54	Pk	Vertical
7236	49.13	6.48	36.27	44.60	47.28	54.00	-6.72	AV	Vertical
4824	66.81	5.21	35.55	44.30	63.27	74.00	-10.73	Pk	Horizontal
4824	46.74	5.21	35.55	44.30	43.20	54.00	-10.80	AV	Horizontal
7236	65.95	6.48	36.27	44.52	64.18	74.00	-9.82	Pk	Horizontal
7236	44.44	6.48	36.27	44.52	42.67	54.00	-11.33	AV	Horizontal
Middle Channel (2437 MHz)(802.11ax(HE20) MIMO)--Above 1G									
4874	65.86	5.21	35.66	44.20	62.53	74.00	-11.47	Pk	Vertical
4874	44.53	5.21	35.66	44.20	41.20	54.00	-12.80	AV	Vertical
7311	63.43	7.10	36.50	44.43	62.60	74.00	-11.40	Pk	Vertical
7311	46.97	7.10	36.50	44.43	46.14	54.00	-7.86	AV	Vertical
4874	66.46	5.21	35.66	44.20	63.13	74.00	-10.87	Pk	Horizontal
4874	48.03	5.21	35.66	44.20	44.70	54.00	-9.30	AV	Horizontal
7311	65.57	7.10	36.50	44.43	64.74	74.00	-9.26	Pk	Horizontal
7311	46.20	7.10	36.50	44.43	45.37	54.00	-8.63	AV	Horizontal
High Channel (2462 MHz)(802.11ax(HE20) MIMO)--Above 1G									
4924	63.57	5.21	35.52	44.21	60.09	74.00	-13.91	Pk	Vertical
4924	45.49	5.21	35.52	44.21	42.01	54.00	-11.99	AV	Vertical
7386	63.01	7.10	36.53	44.60	62.04	74.00	-11.96	Pk	Vertical
7386	44.35	7.10	36.53	44.60	43.38	54.00	-10.62	AV	Vertical
4924	65.39	5.21	35.52	44.21	61.91	74.00	-12.09	Pk	Horizontal
4924	45.52	5.21	35.52	44.21	42.04	54.00	-11.96	AV	Horizontal
7386	67.76	7.10	36.53	44.60	66.79	74.00	-7.21	Pk	Horizontal
7386	47.55	7.10	36.53	44.60	46.58	54.00	-7.42	AV	Horizontal

Note:

- (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) The worst data is 802.11ax(HE20) MIMO mode, only shown 802.11ax(HE20) MIMO data.

- Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz.
 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	
802.11ax(HE20) MIMO									
2310.00	71.16	2.97	27.21	43.80	57.54	74	-16.46	Pk	Horizontal
2310.00	51.31	2.97	27.21	43.80	37.69	54	-16.31	AV	Horizontal
2310.00	69.19	2.97	27.21	43.80	55.57	74	-18.43	Pk	Vertical
2310.00	49.03	2.97	27.21	43.80	35.41	54	-18.59	AV	Vertical
2390.00	66.74	3.14	27.33	43.80	53.41	74	-20.59	Pk	Vertical
2390.00	47.56	3.14	27.33	43.80	34.23	54	-19.77	AV	Vertical
2390.00	63.56	3.14	27.33	43.80	50.23	74	-23.77	Pk	Horizontal
2390.00	50.76	3.14	27.33	43.80	37.43	54	-16.57	AV	Horizontal
2483.50	70.98	3.58	27.70	44.00	58.26	74	-15.74	Pk	Vertical
2483.50	47.27	3.58	27.70	44.00	34.55	54	-19.45	AV	Vertical
2483.50	66.25	3.58	27.70	44.00	53.53	74	-20.47	Pk	Horizontal
2483.50	46.14	3.58	27.70	44.00	33.42	54	-20.58	AV	Horizontal

Note: The worst data is 802.11ax(HE20) MIMO mode, only shown 802.11ax(HE20) MIMO data.

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	Preamplifier Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3260	63.20	4.04	29.57	44.70	52.11	74	-21.89	Pk	Vertical
3260	49.34	4.04	29.57	44.70	38.25	54	-15.75	AV	Vertical
3260	67.08	4.04	29.57	44.70	55.99	74	-18.01	Pk	Horizontal
3260	50.45	4.04	29.57	44.70	39.36	54	-14.64	AV	Horizontal
3332	64.01	4.26	29.87	44.40	53.74	74	-20.26	Pk	Vertical
3332	43.91	4.26	29.87	44.40	33.64	54	-20.36	AV	Vertical
3332	64.91	4.26	29.87	44.40	54.64	74	-19.36	Pk	Horizontal
3332	50.81	4.26	29.87	44.40	40.54	54	-13.46	AV	Horizontal
17797	47.23	10.99	43.95	43.50	58.67	74	-15.33	Pk	Vertical
17797	35.19	10.99	43.95	43.50	46.63	54	-7.37	AV	Vertical
17788	47.90	11.81	43.69	44.60	58.80	74	-15.20	Pk	Horizontal
17788	34.28	11.81	43.69	44.60	45.18	54	-8.82	AV	Horizontal

Note: The worst data is 802.11ax(HE20) MIMO mode, only shown 802.11ax(HE20) MIMO data.

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*RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Mukzi Lee

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

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. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. 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 duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

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 = Zero Span

RBW = 10MHz (the largest available value)

VBW = 10MHz ($\geq$ RBW)

Number of points in Sweep > 100

Detector function = peak

Trace = Clear write

Measure T_{total} and T_{on}

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

7.4.6 Test Results

EUT:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	N/A	Test By:	Mukzi Lee

Note: Not applicable

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

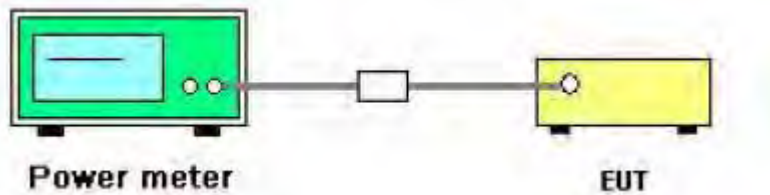
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be 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	Peak

7.5.4 Test Setup



7.5.5 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the *DTS bandwidth* and shall utilize a fast-responding diode detector.

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.

7.5.7 Test Results

EUT:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Mukzi Lee

For 2.4G band MIMO mode. Directional gain=4.51dBi; 6.0dBi>4.51dBi, so conducted power limit= 30.00dBm.
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 Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 * \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.6.6 Test Results

EUT:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Mukzi Lee

For 2.4G band MIMO mode. Directional gain=4.51dBi
 6dBi> 4.51dBi, so MIMO power spectral density limit= 8dBm / 3kHz;
 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:	Hybrid Vr Portable Computer	Model No.:	Portal QLED
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Test By:	Mukzi Lee

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 25GHz.

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 bandedge 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 FPC Antenna (Ant1: Gain: 1.5dBi; Ant2: Gain: 1.1dBi). It comply with the standard requirement.

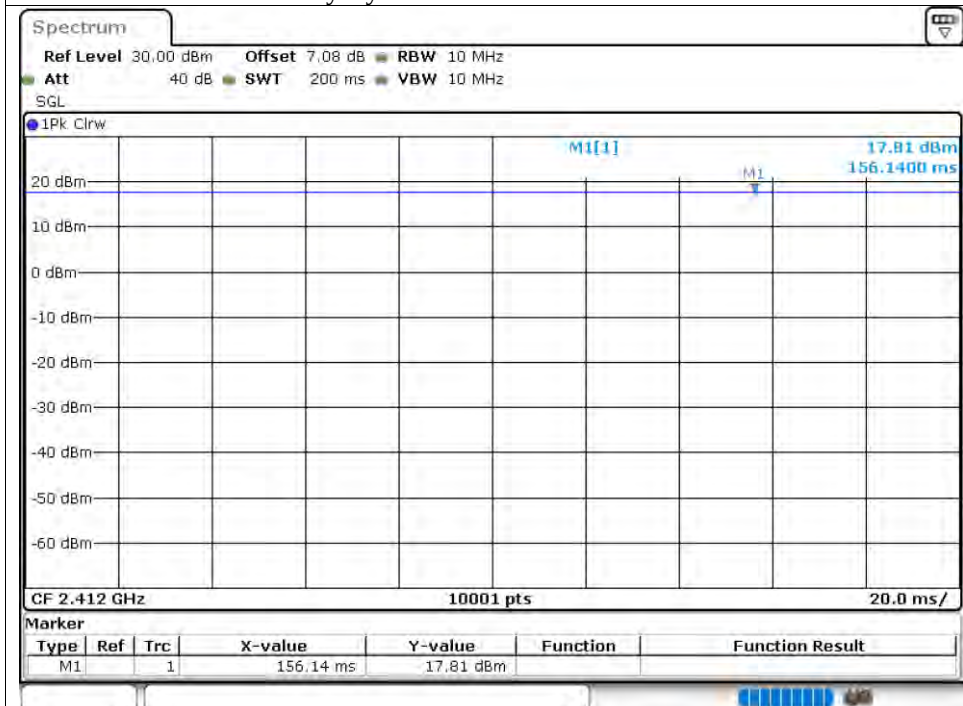
8 TEST RESULT

8.1 DUTY CYCLE

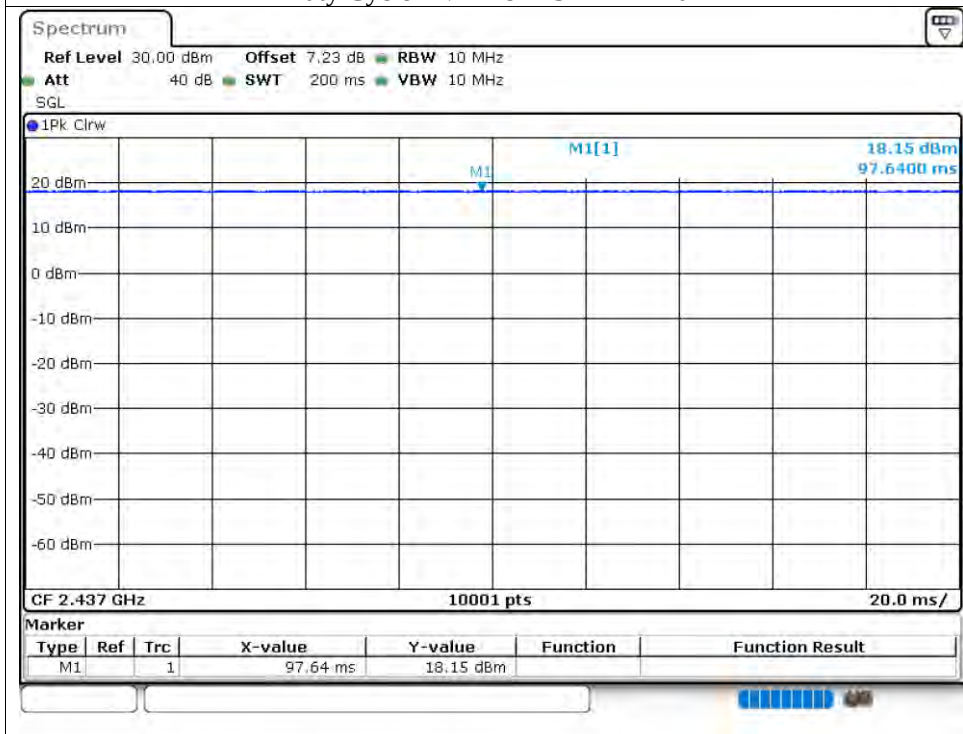
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	b	2412	Ant2	99.6	0.02	0.5
NVNT	b	2437	Ant2	99.62	0.02	0.5
NVNT	b	2462	Ant2	99.59	0.02	0.5
NVNT	g	2412	Ant1	99.74	0.01	0.48
NVNT	g	2437	Ant1	99.72	0.01	0.48
NVNT	g	2462	Ant1	99.73	0.01	0.16
NVNT	g	2412	Ant2	99.72	0.01	0.16
NVNT	g	2437	Ant2	99.73	0.01	0.48
NVNT	g	2462	Ant2	99.73	0.01	0.48
NVNT	n20	2412	Ant1	99.89	0	0.18
NVNT	n20	2437	Ant1	99.89	0	0.09
NVNT	n20	2462	Ant1	99.89	0	0.09
NVNT	n20	2412	Ant2	99.89	0	0.09
NVNT	n20	2437	Ant2	99.91	0	0.09
NVNT	n20	2462	Ant2	99.89	0	0.18
NVNT	n40	2422	Ant1	99.91	0	0.06
NVNT	n40	2437	Ant1	99.88	0.01	0.18
NVNT	n40	2452	Ant1	99.88	0.01	0.18
NVNT	n40	2422	Ant2	99.87	0.01	0.09
NVNT	n40	2437	Ant2	99.88	0.01	0.09
NVNT	n40	2452	Ant2	99.93	0	0.06
NVNT	ax20	2412	Ant1	99.89	0	0.18
NVNT	ax20	2437	Ant1	99.91	0	0.18
NVNT	ax20	2462	Ant1	99.89	0	0.18
NVNT	ax20	2412	Ant2	99.92	0	0.03
NVNT	ax20	2437	Ant2	99.92	0	0.03
NVNT	ax20	2462	Ant2	99.9	0	0.18
NVNT	ax40	2422	Ant1	99.93	0	0.18
NVNT	ax40	2437	Ant1	99.96	0	0.18
NVNT	ax40	2452	Ant1	99.89	0	0.18
NVNT	ax40	2422	Ant2	99.85	0.01	0.18
NVNT	ax40	2437	Ant2	99.9	0	0.18
NVNT	ax40	2452	Ant2	99.85	0.01	0.18

Test Graphs

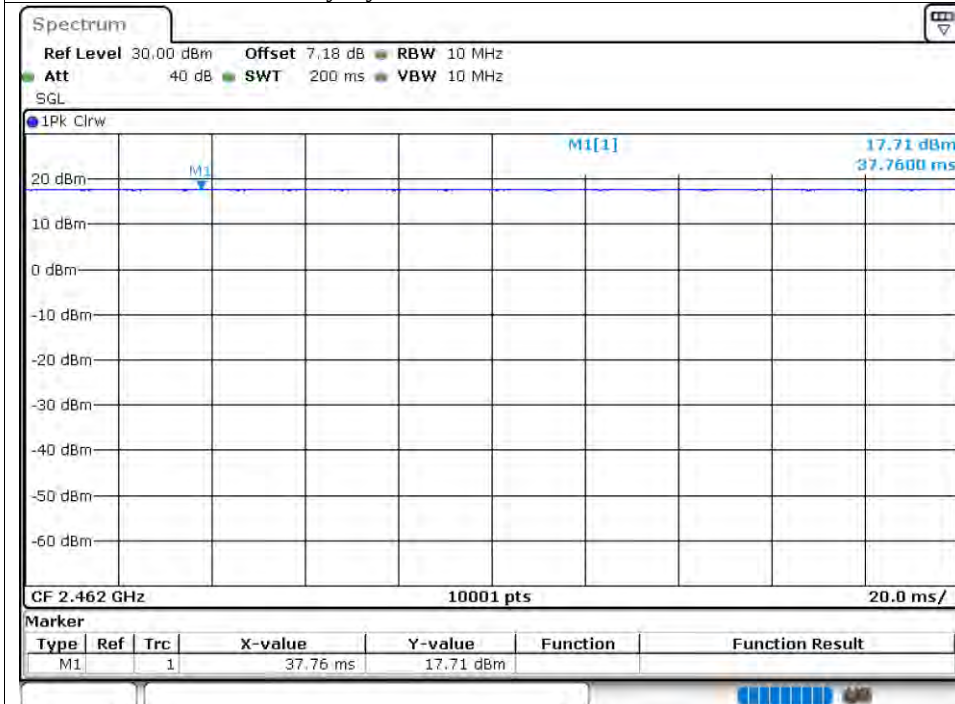
Duty Cycle NVNT b 2412MHz Ant1



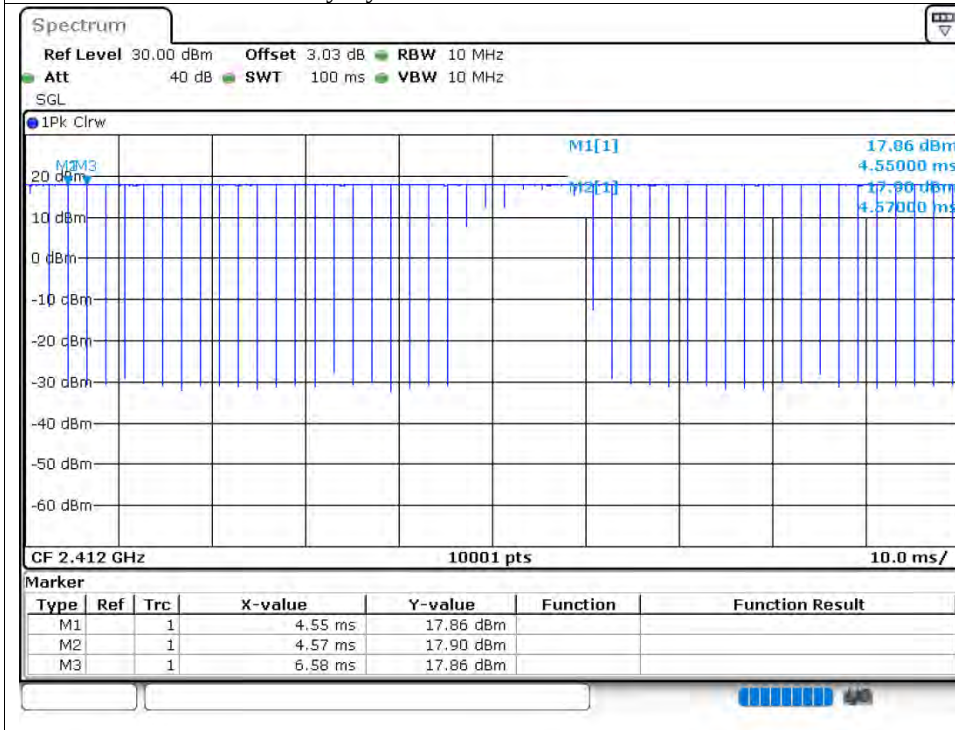
Duty Cycle NVNT b 2437MHz Ant1



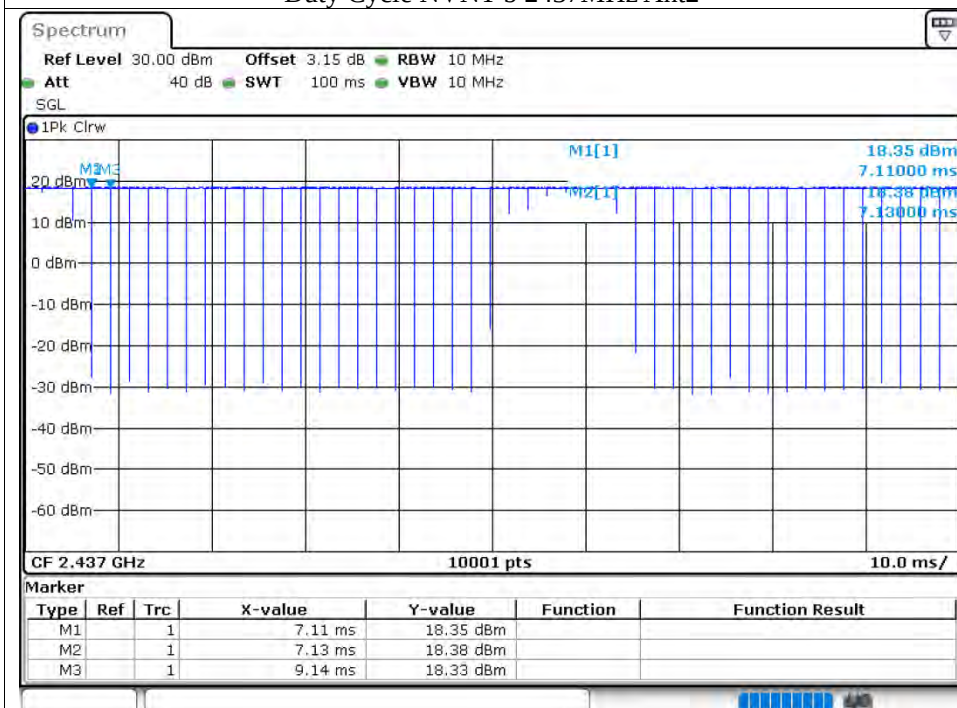
Duty Cycle NVNT b 2462MHz Ant1



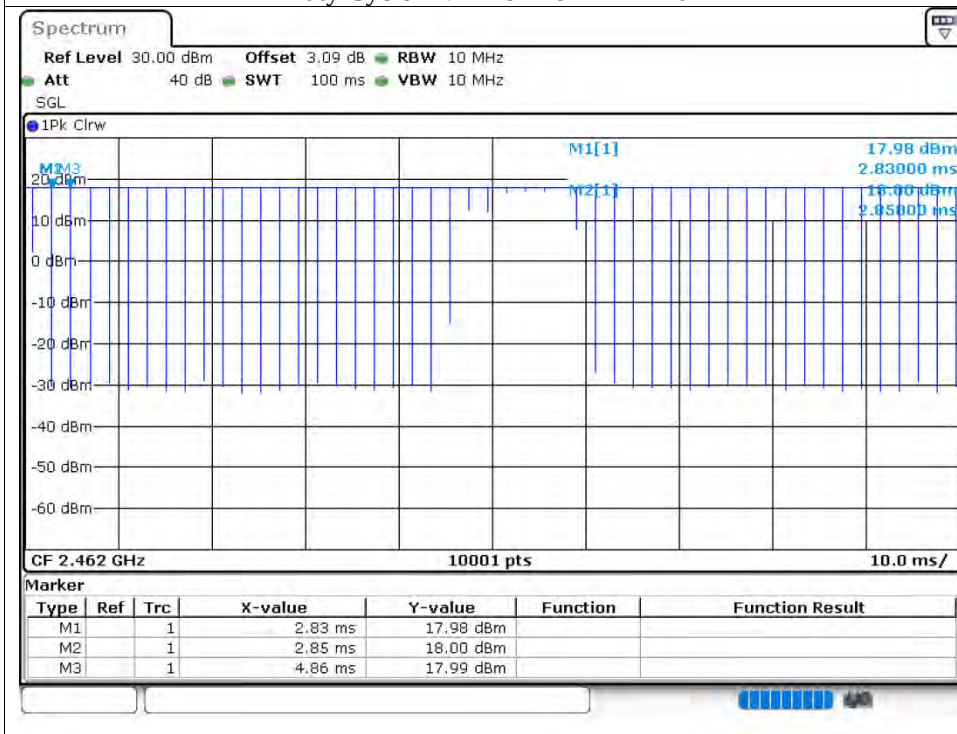
Duty Cycle NVNT b 2412MHz Ant2



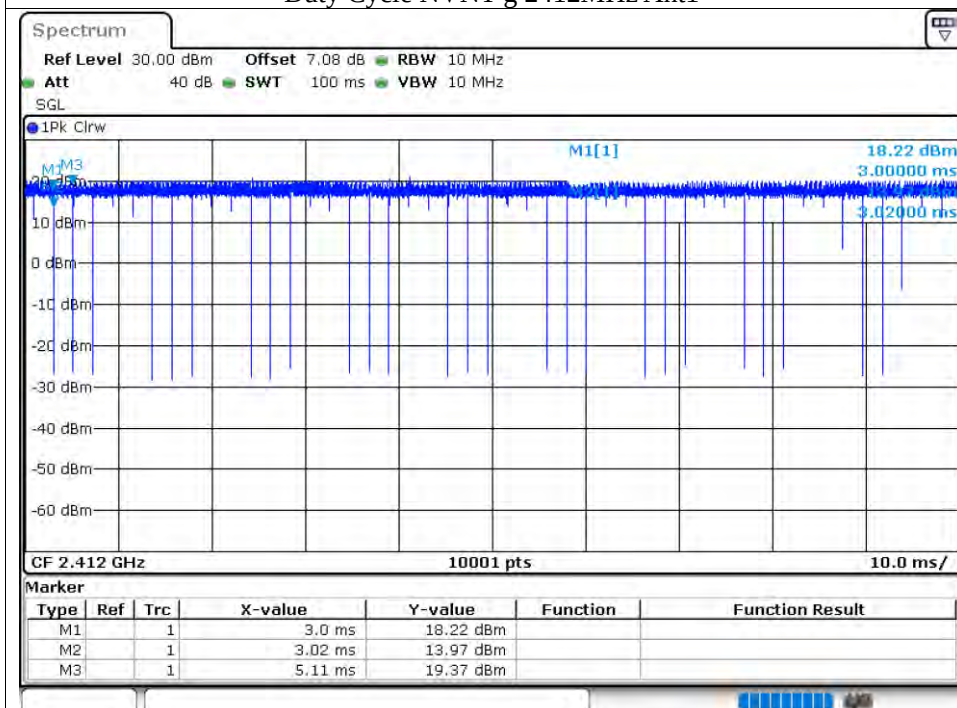
Duty Cycle NVNT b 2437MHz Ant2



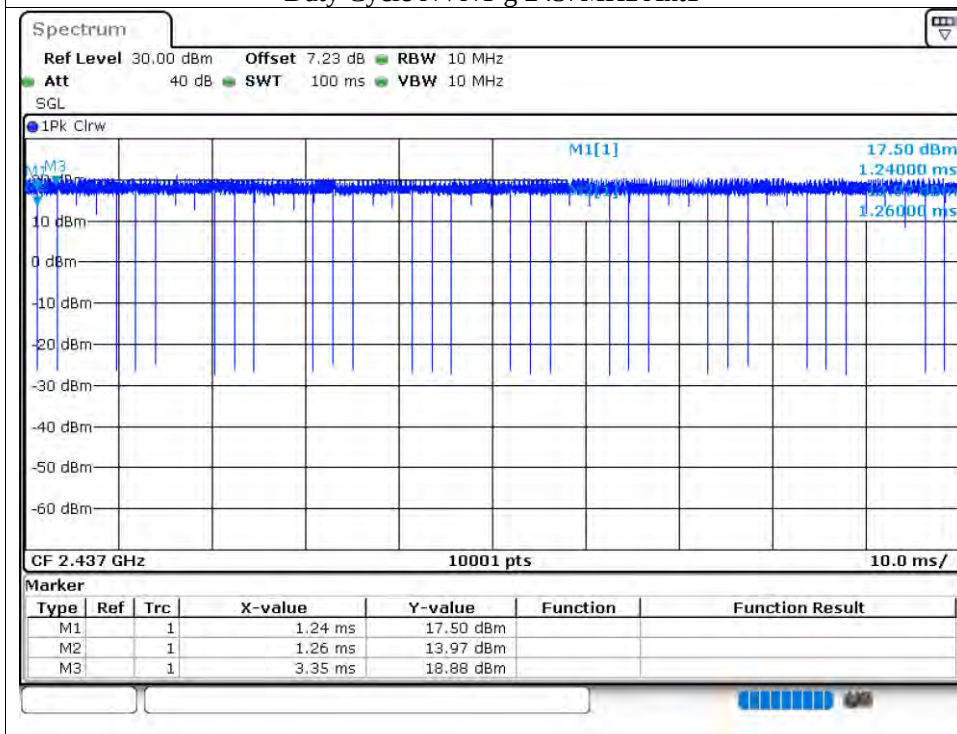
Duty Cycle NVNT b 2462MHz Ant2



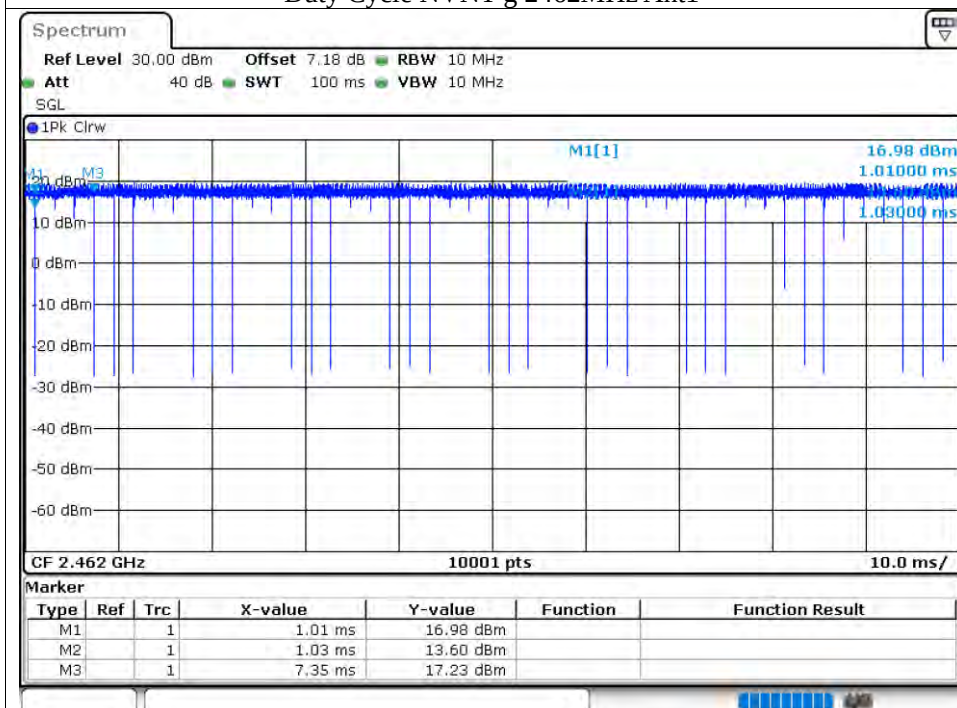
Duty Cycle NVNT g 2412MHz Ant1



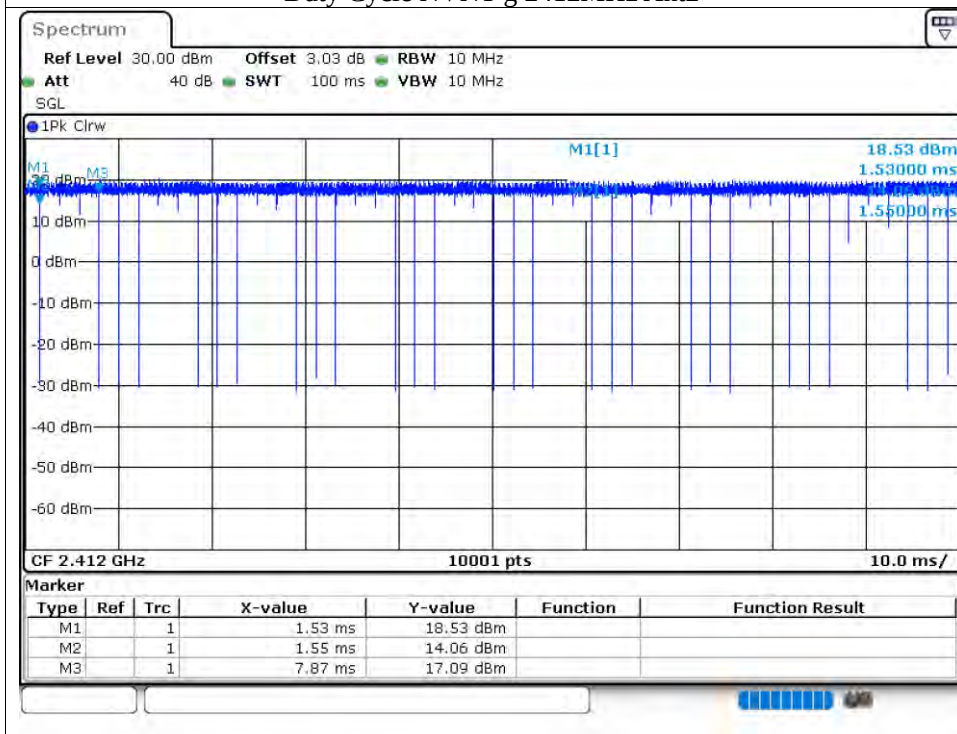
Duty Cycle NVNT g 2437MHz Ant1



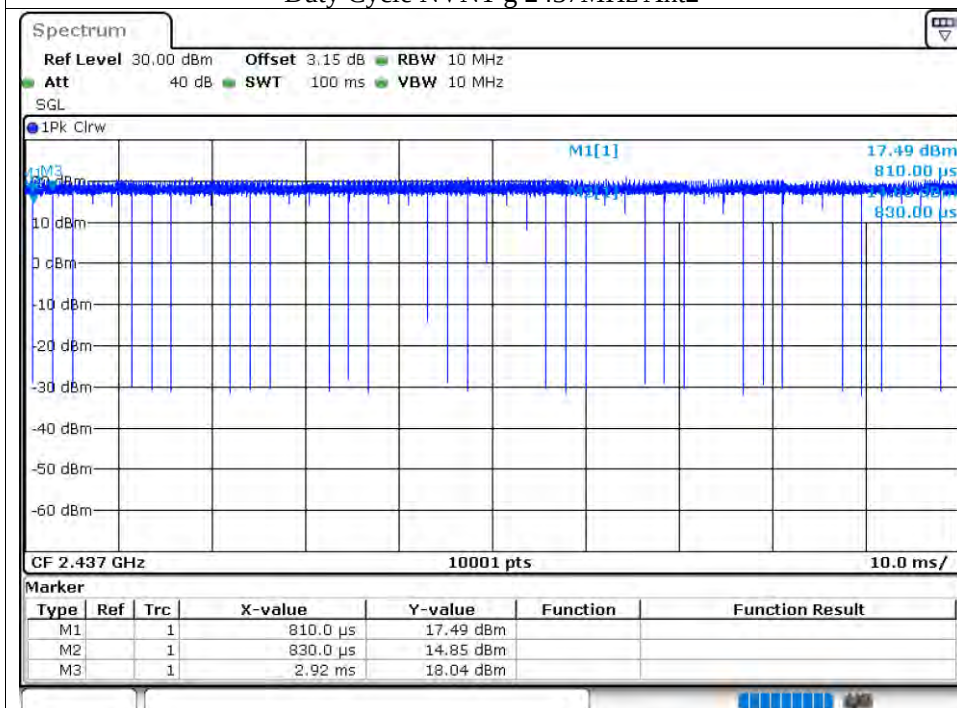
Duty Cycle NVNT g 2462MHz Ant1



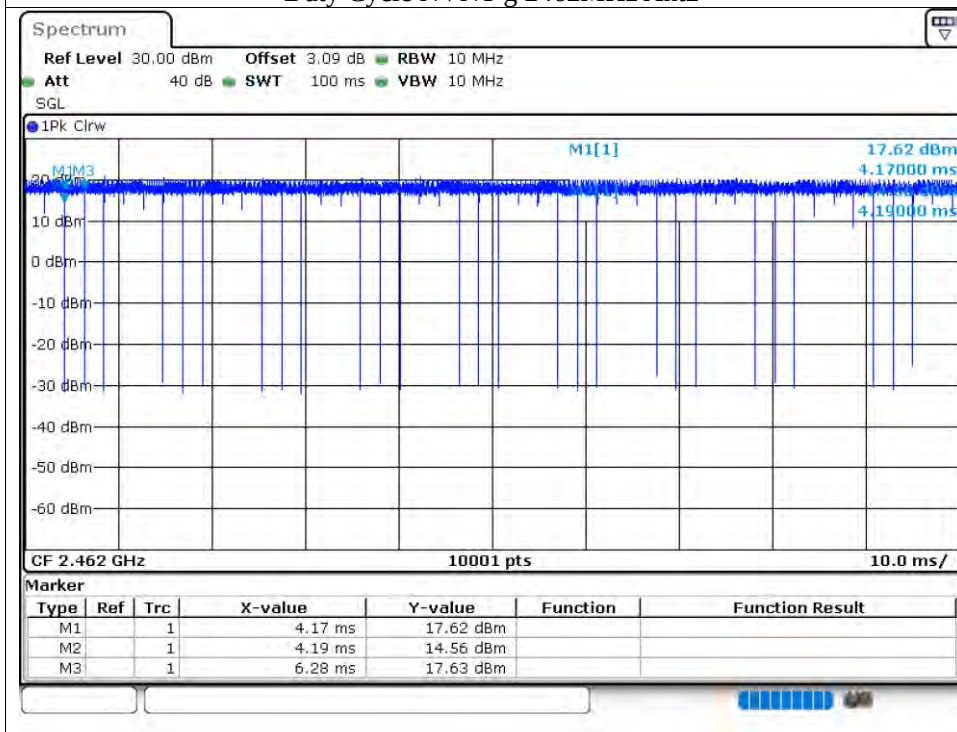
Duty Cycle NVNT g 2412MHz Ant2



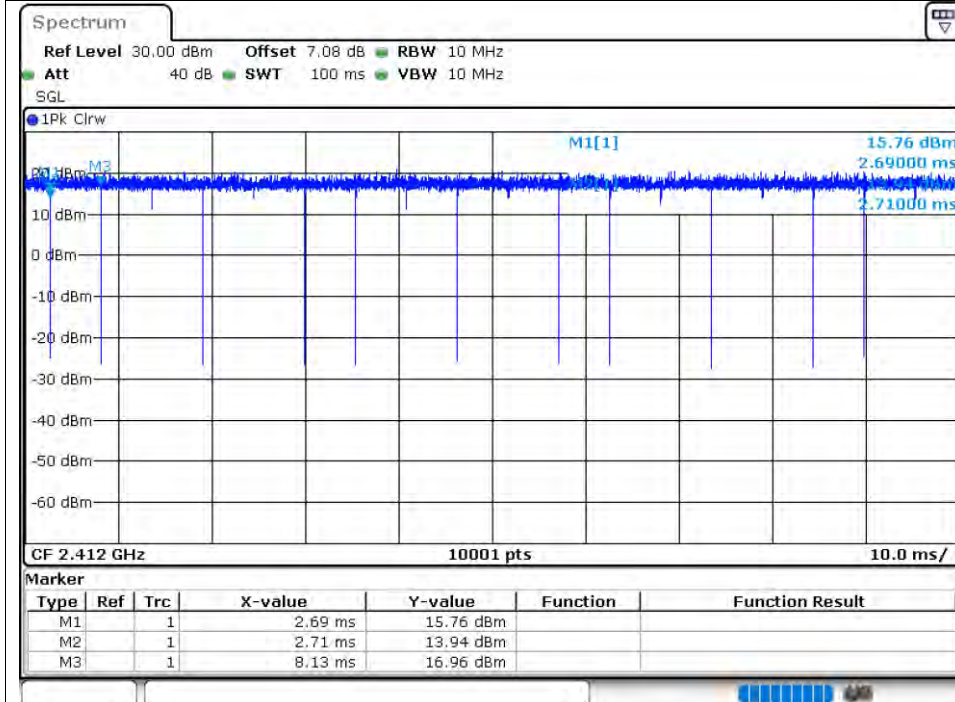
Duty Cycle NVNT g 2437MHz Ant2



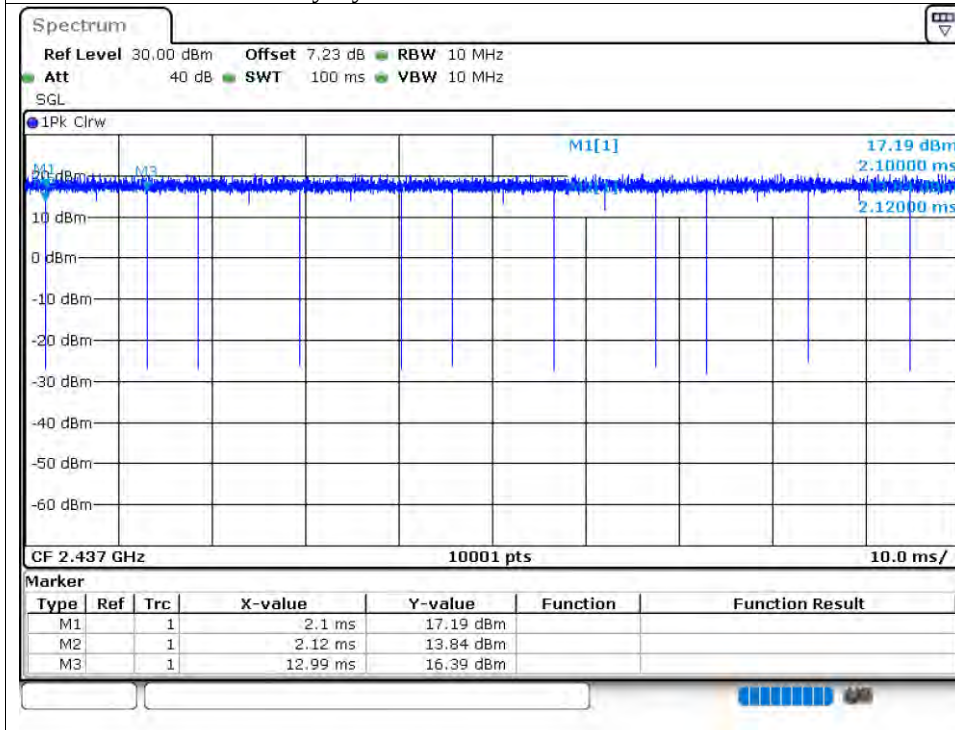
Duty Cycle NVNT g 2462MHz Ant2



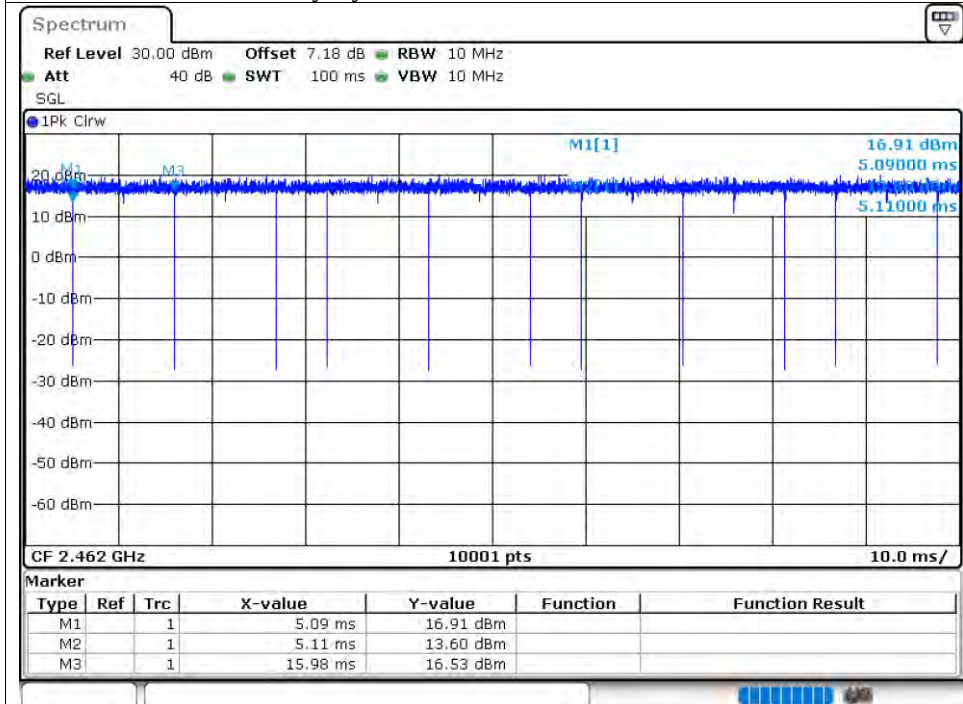
Duty Cycle NVNT n20 2412MHz Ant1



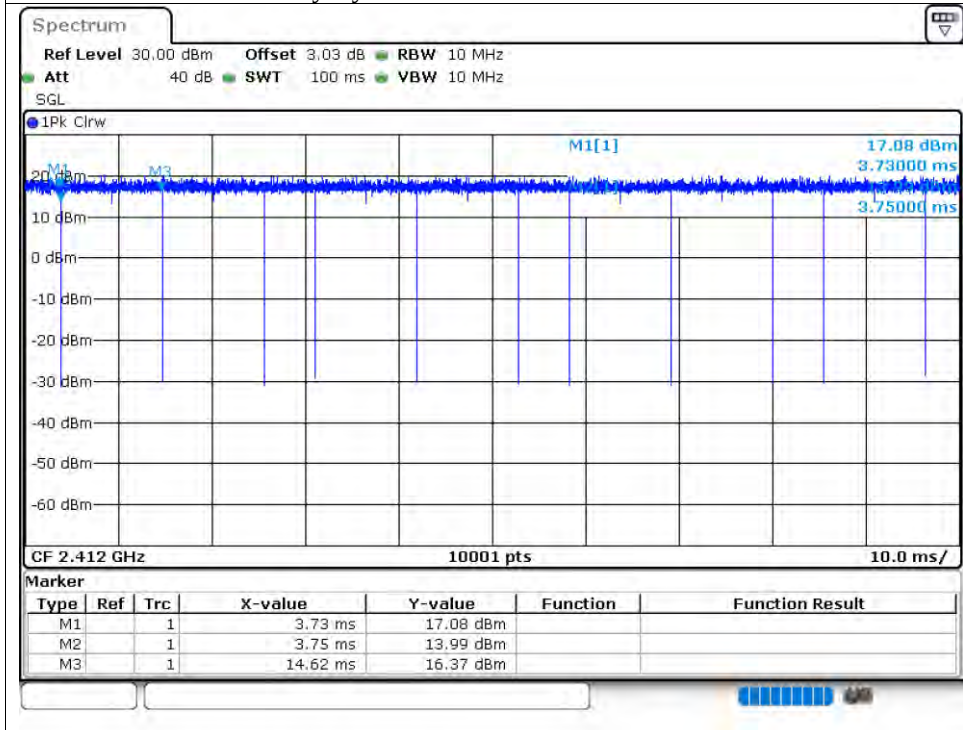
Duty Cycle NVNT n20 2437MHz Ant1



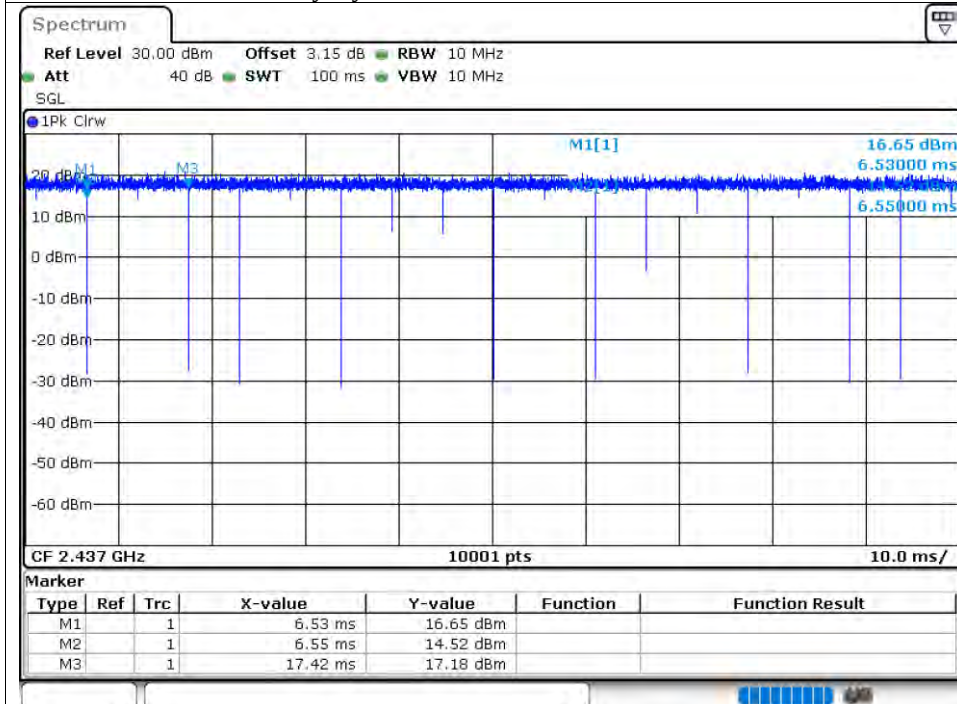
Duty Cycle NVNT n20 2462MHz Ant1



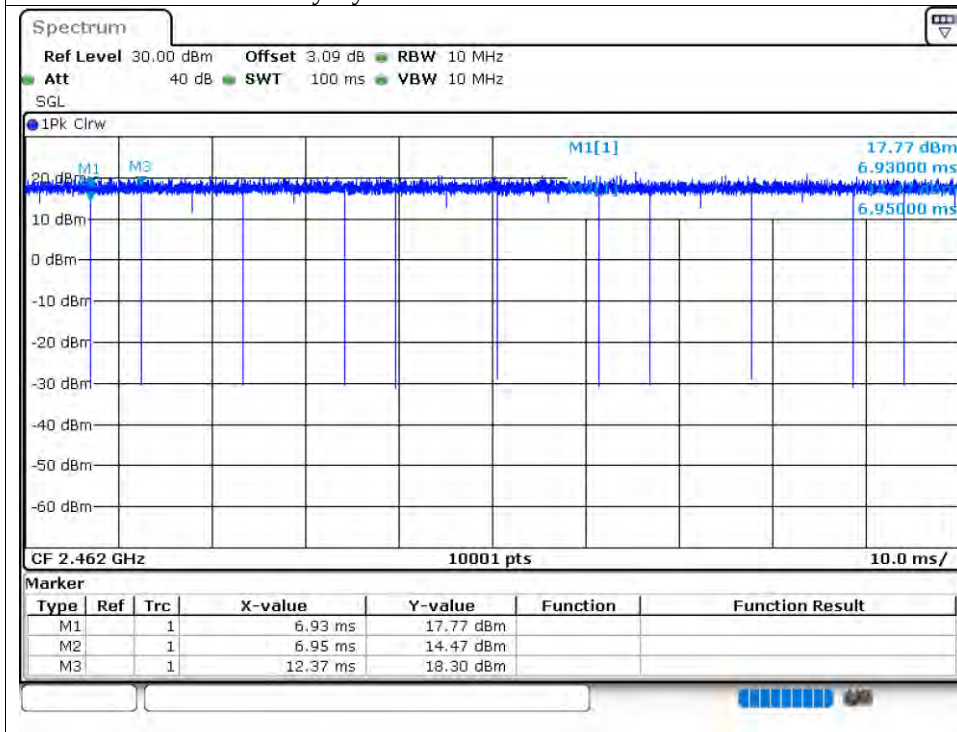
Duty Cycle NVNT n20 2412MHz Ant2



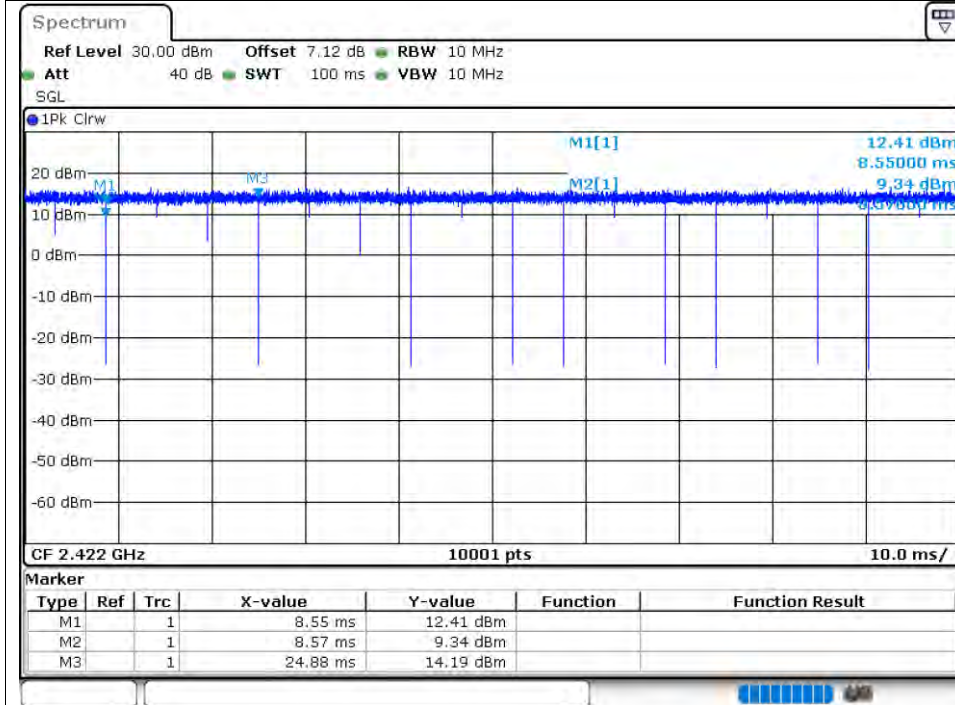
Duty Cycle NVNT n20 2437MHz Ant2



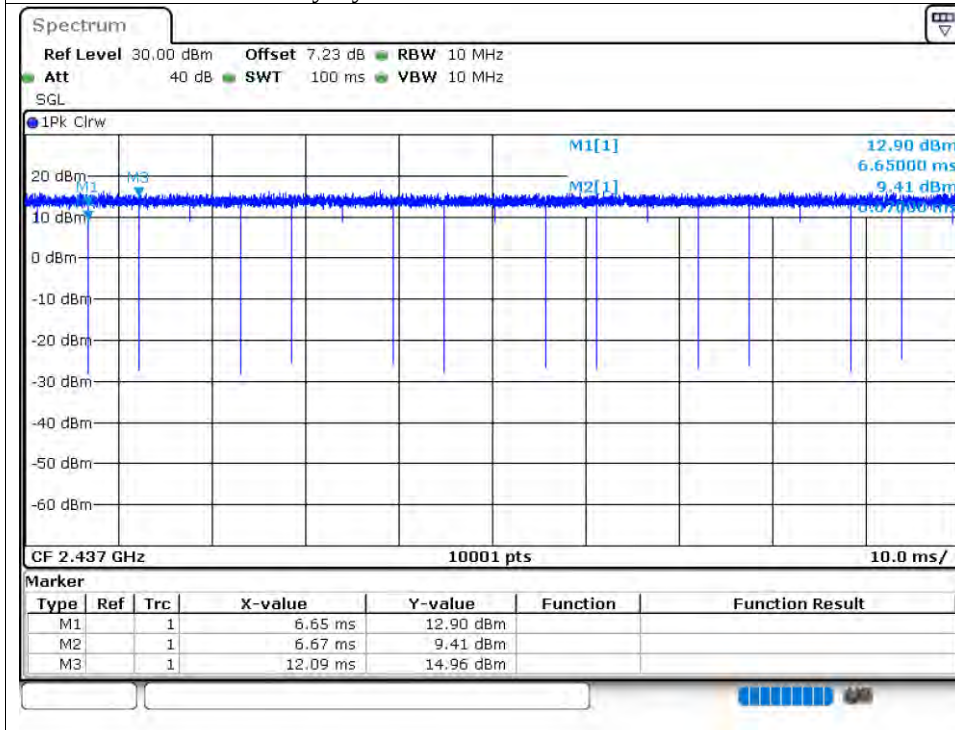
Duty Cycle NVNT n20 2462MHz Ant2



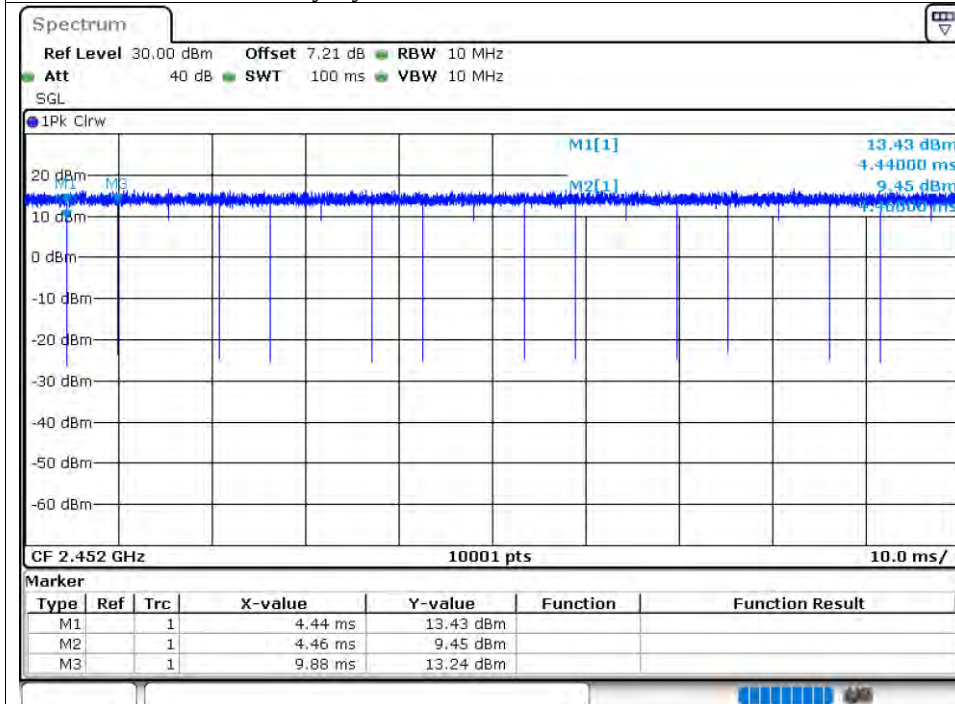
Duty Cycle NVNT n40 2422MHz Ant1



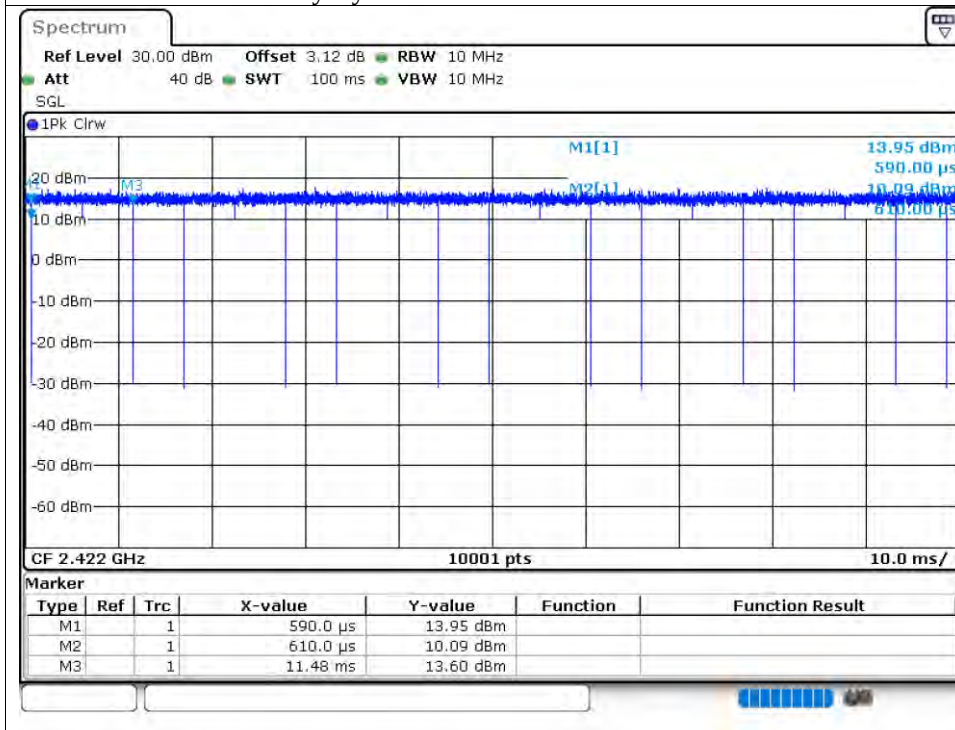
Duty Cycle NVNT n40 2437MHz Ant1



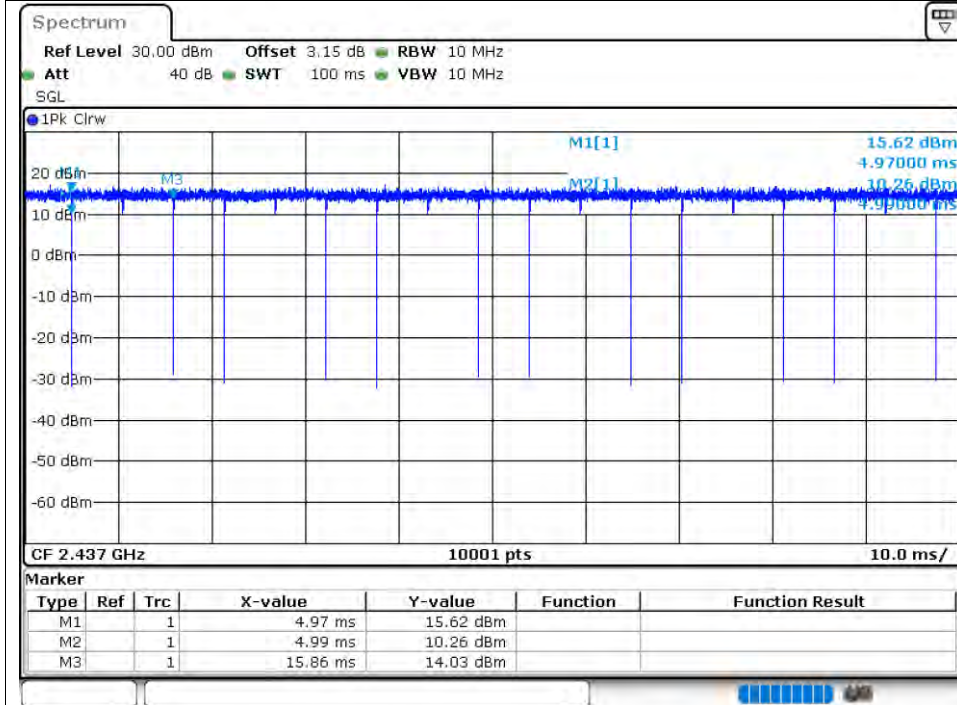
Duty Cycle NVNT n40 2452MHz Ant1



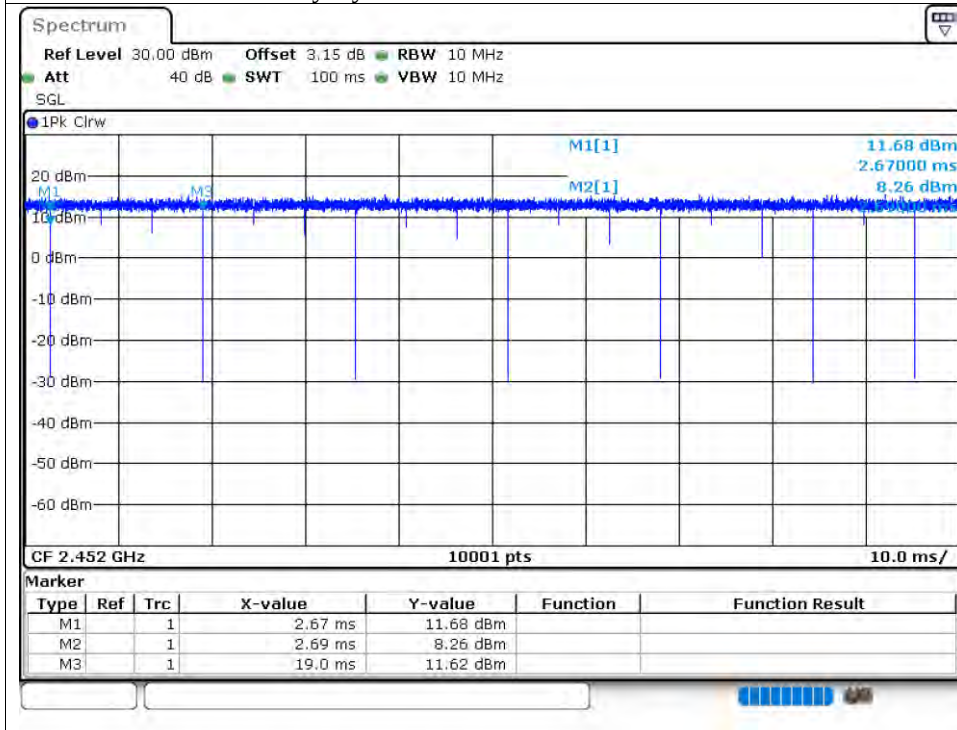
Duty Cycle NVNT n40 2422MHz Ant2



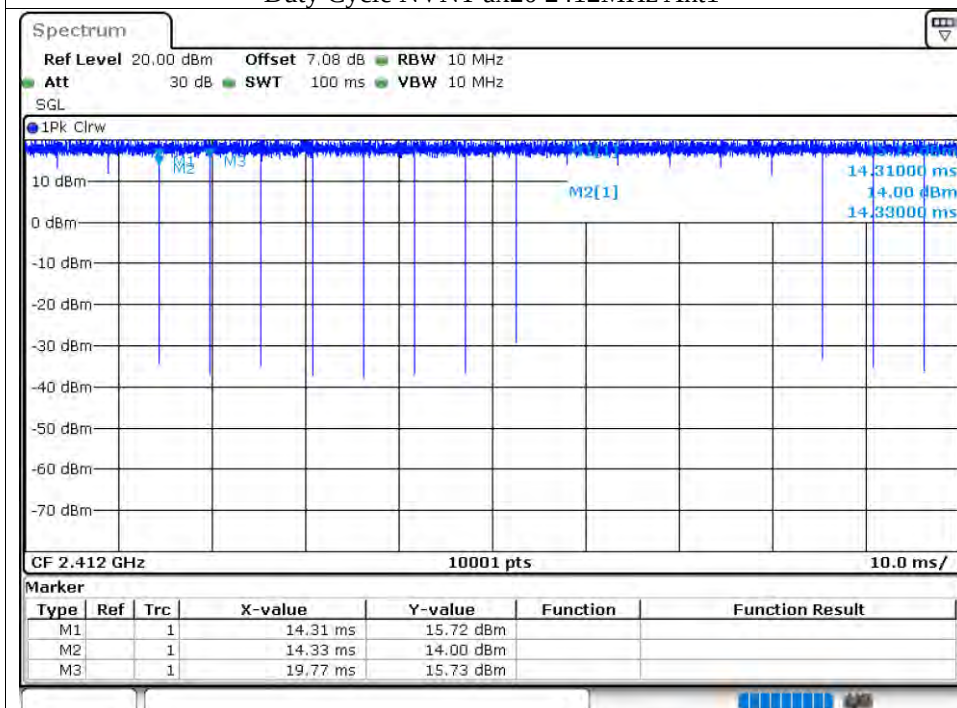
Duty Cycle NVNT n40 2437MHz Ant2



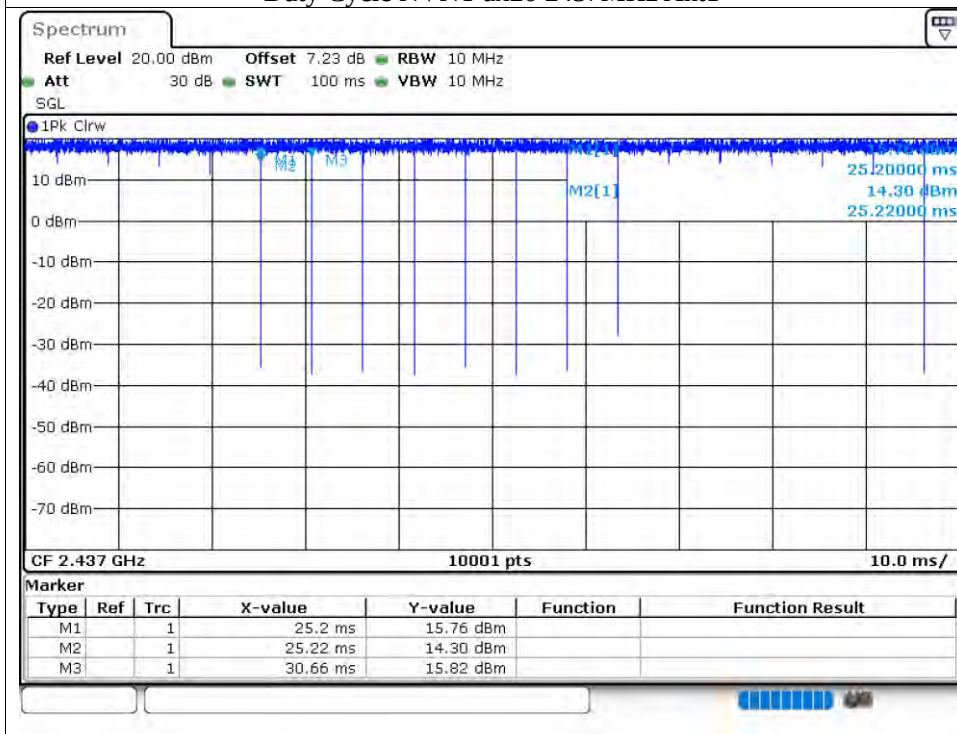
Duty Cycle NVNT n40 2452MHz Ant2



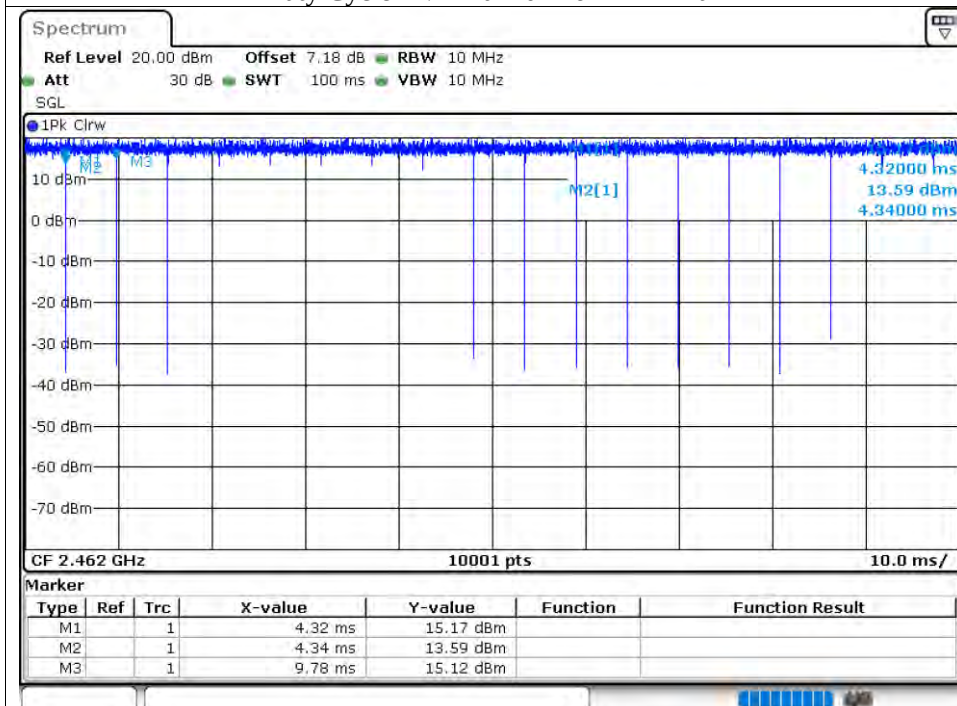
Duty Cycle NVNT ax20 2412MHz Ant1



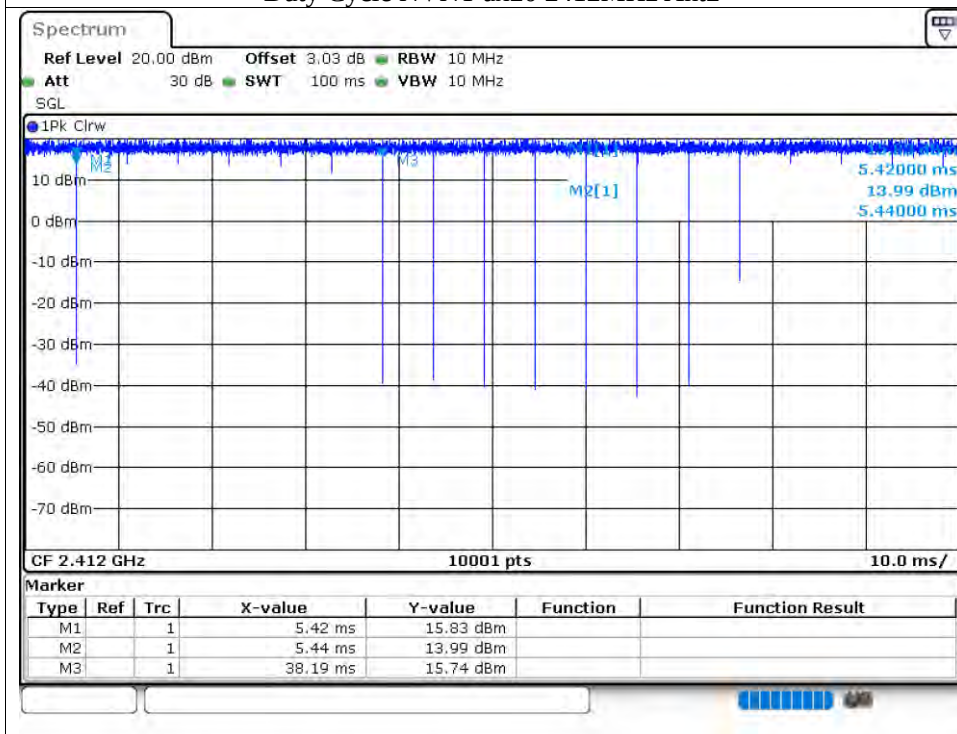
Duty Cycle NVNT ax20 2437MHz Ant1



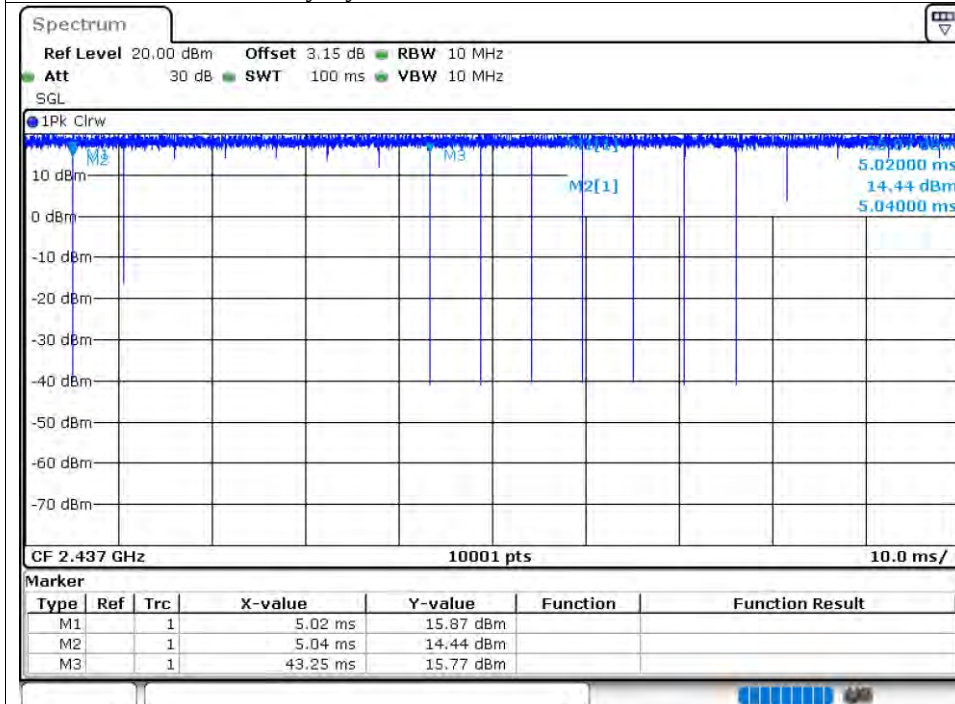
Duty Cycle NVNT ax20 2462MHz Ant1



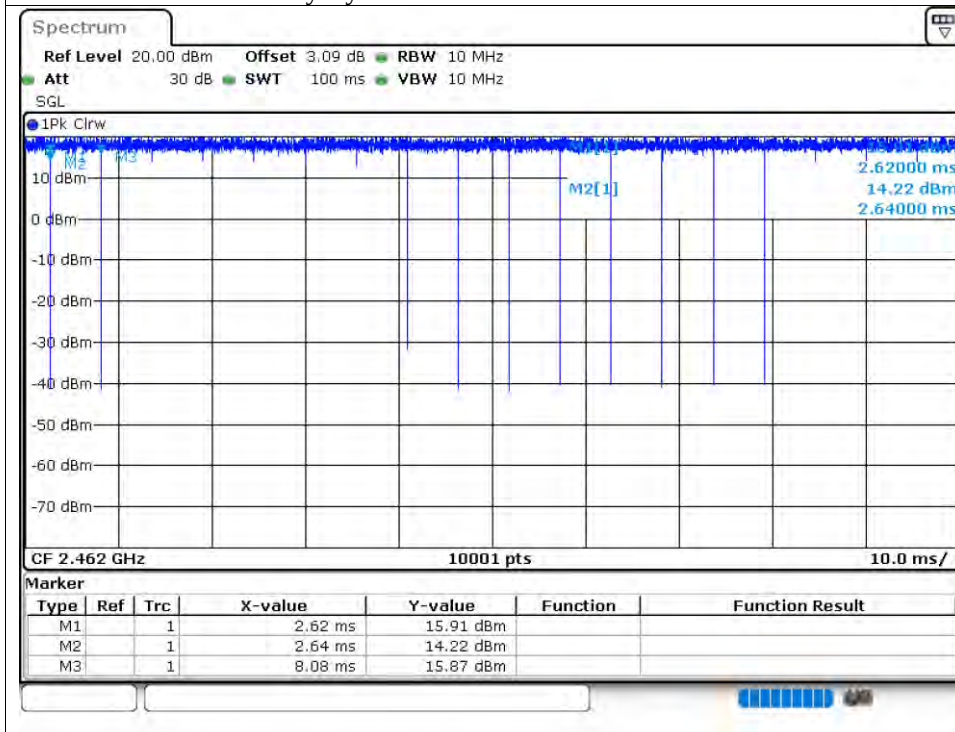
Duty Cycle NVNT ax20 2412MHz Ant2



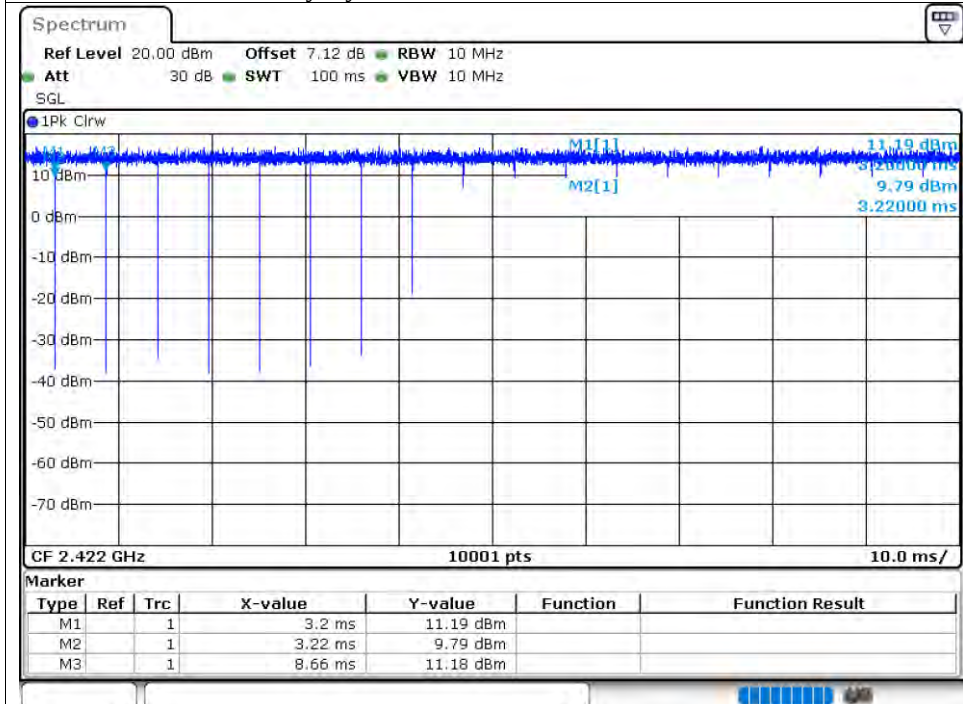
Duty Cycle NVNT ax20 2437MHz Ant2



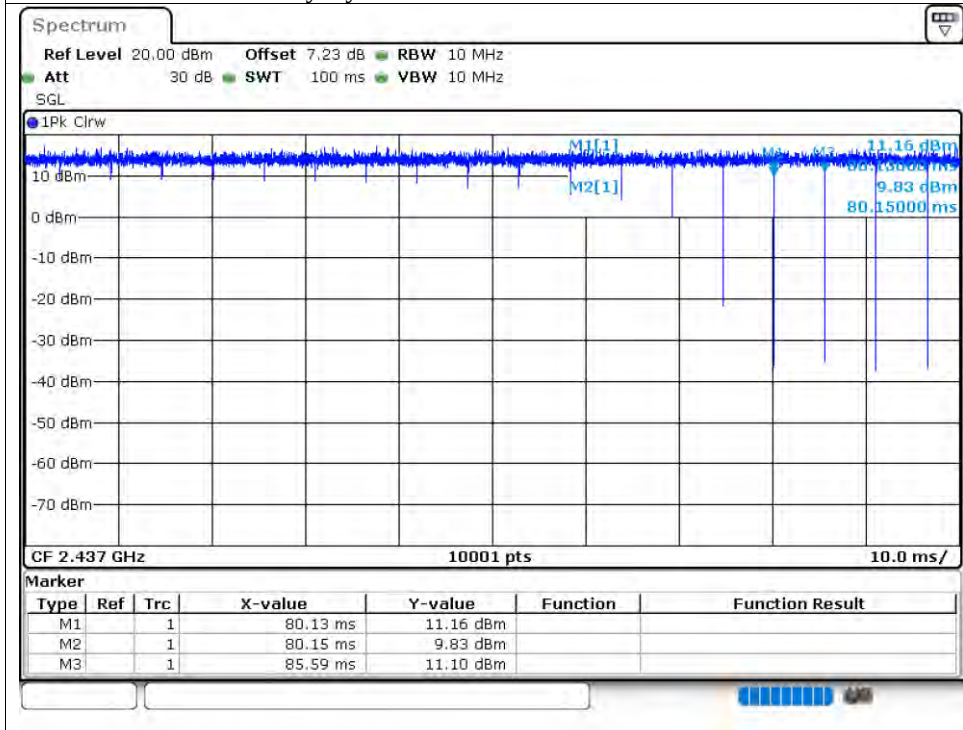
Duty Cycle NVNT ax20 2462MHz Ant2



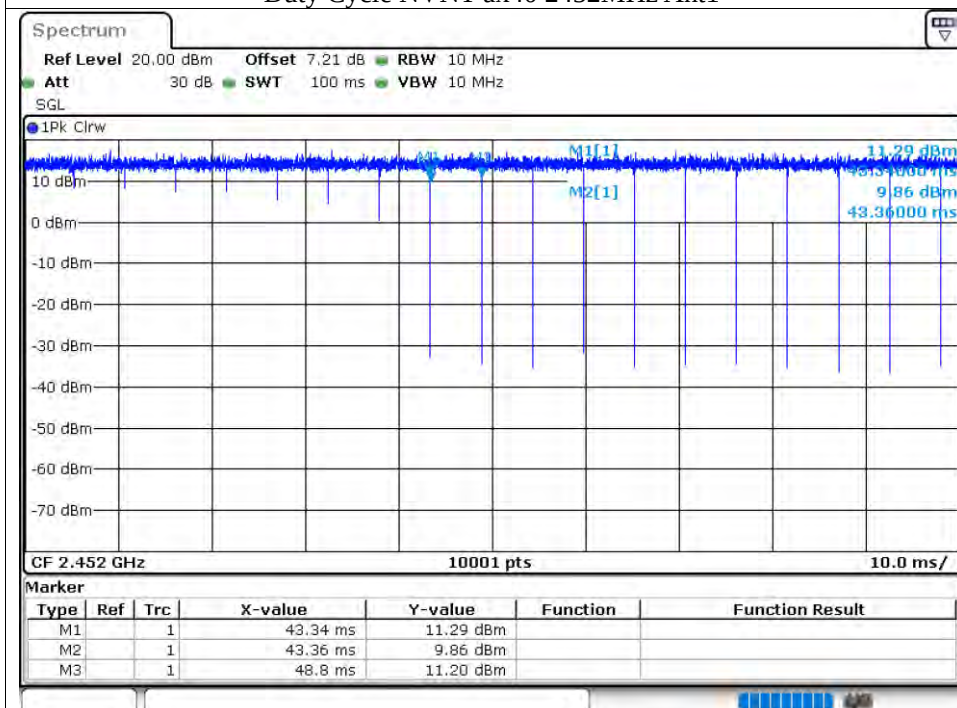
Duty Cycle NVNT ax40 2422MHz Ant1



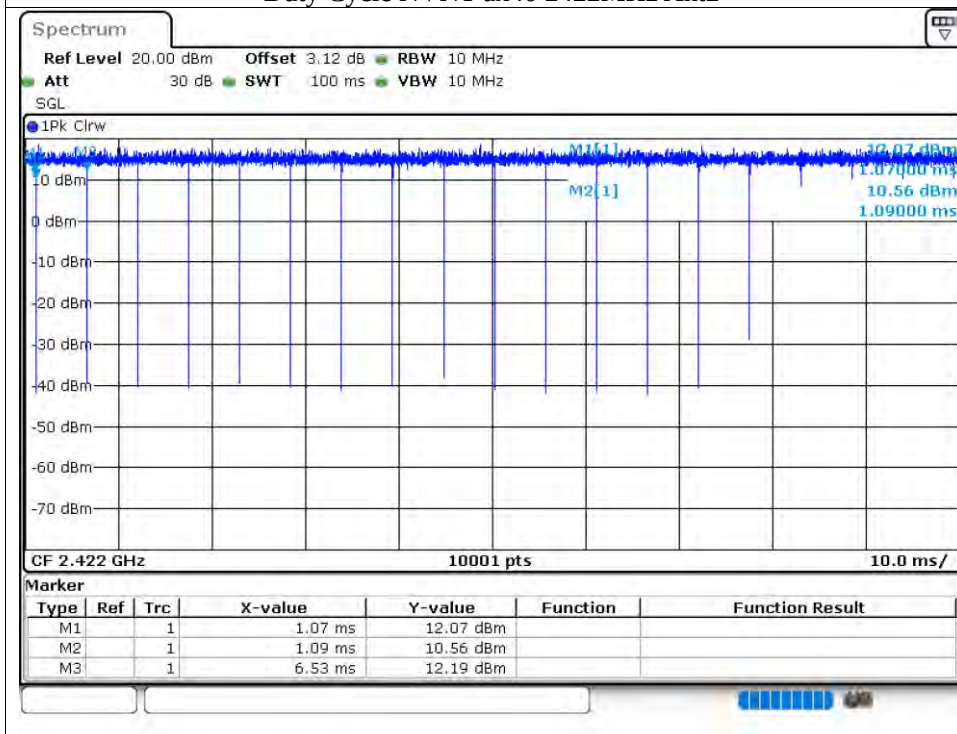
Duty Cycle NVNT ax40 2437MHz Ant1



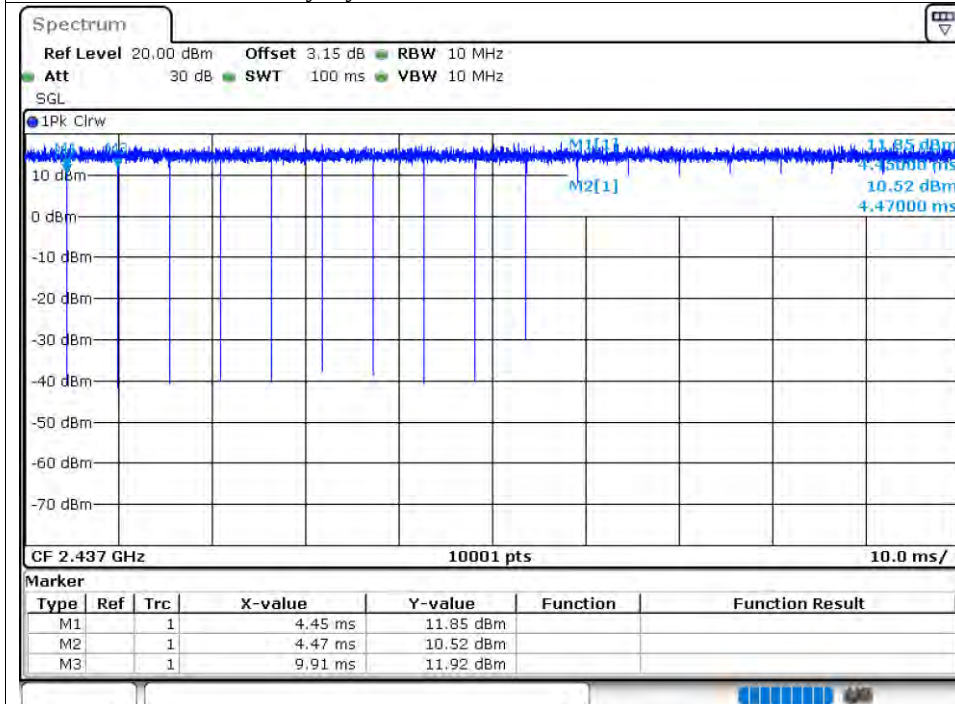
Duty Cycle NVNT ax40 2452MHz Ant1



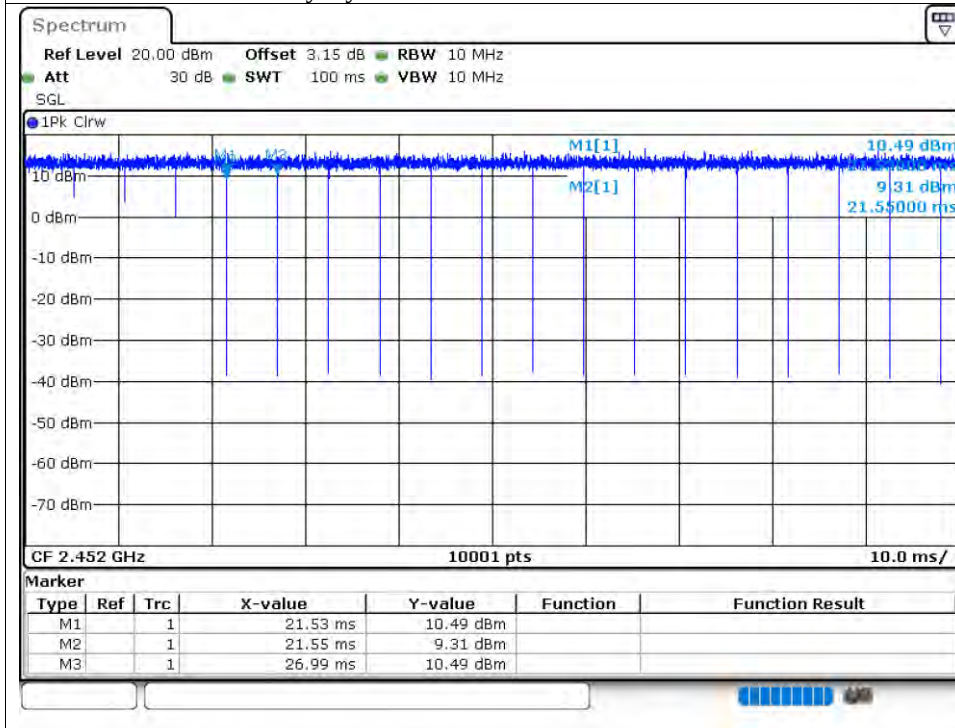
Duty Cycle NVNT ax40 2422MHz Ant2



Duty Cycle NVNT ax40 2437MHz Ant2



Duty Cycle NVNT ax40 2452MHz Ant2



8.2 MAXIMUM CONDUCTED OUTPUT POWER

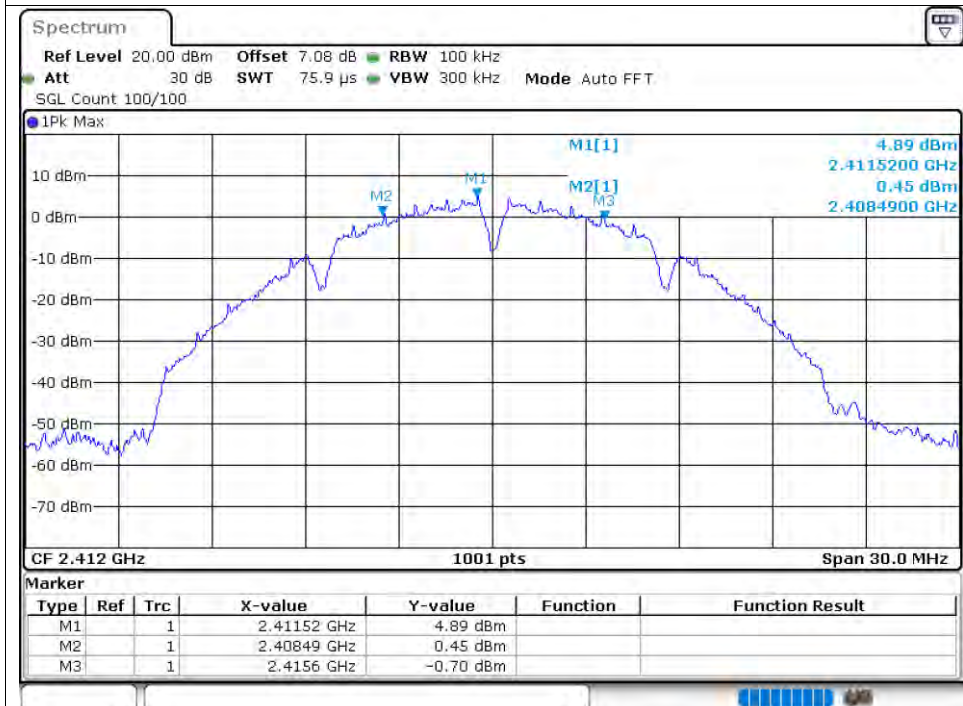
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.59	-	30	Pass
NVNT	b	2437	Ant1	14.71	-	30	Pass
NVNT	b	2462	Ant1	14.62	-	30	Pass
NVNT	b	2412	Ant2	14.98	-	30	Pass
NVNT	b	2437	Ant2	14.44	-	30	Pass
NVNT	b	2462	Ant2	15.86	-	30	Pass
NVNT	g	2412	Ant1	12.48	-	30	Pass
NVNT	g	2437	Ant1	12.7	-	30	Pass
NVNT	g	2462	Ant1	12.29	-	30	Pass
NVNT	g	2412	Ant2	12.77	-	30	Pass
NVNT	g	2437	Ant2	12.29	-	30	Pass
NVNT	g	2462	Ant2	13.56	-	30	Pass
NVNT	n20	2412	Ant1	12.25	15.40	30	Pass
NVNT	n20	2412	Ant2	12.53			
NVNT	n20	2437	Ant1	12.54	15.37	30	Pass
NVNT	n20	2437	Ant2	12.17			
NVNT	n20	2462	Ant1	12.17	15.54	30	Pass
NVNT	n20	2462	Ant2	12.86			
NVNT	n40	2422	Ant1	11.43	14.75	30	Pass
NVNT	n40	2422	Ant2	12.02			
NVNT	n40	2437	Ant1	11.9	14.90	30	Pass
NVNT	n40	2437	Ant2	11.88			
NVNT	n40	2452	Ant1	10.88	14.84	30	Pass
NVNT	n40	2452	Ant2	12.6			
NVNT	ax20	2412	Ant1	12.22	15.43	30	Pass
NVNT	ax20	2412	Ant2	12.61			
NVNT	ax20	2437	Ant1	12.64	15.48	30	Pass
NVNT	ax20	2437	Ant2	12.3			
NVNT	ax20	2462	Ant1	12.24	15.54	30	Pass
NVNT	ax20	2462	Ant2	12.81			
NVNT	ax40	2422	Ant1	11.41	14.11	30	Pass
NVNT	ax40	2422	Ant2	10.76			
NVNT	ax40	2437	Ant1	11.8	14.88	30	Pass
NVNT	ax40	2437	Ant2	11.93			
NVNT	ax40	2452	Ant1	10.69	14.06	30	Pass
NVNT	ax40	2452	Ant2	11.38			

8.3 -6dB BANDWIDTH

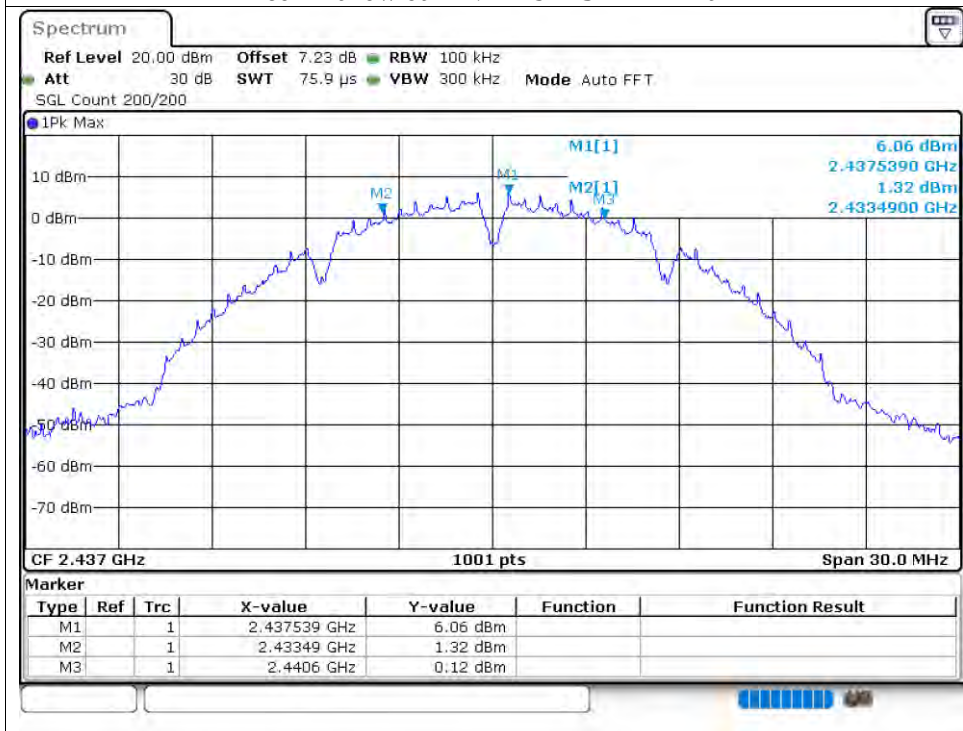
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.11	0.5	Pass
NVNT	b	2437	Ant1	7.11	0.5	Pass
NVNT	b	2462	Ant1	8.076	0.5	Pass
NVNT	b	2412	Ant2	7.611	0.5	Pass
NVNT	b	2437	Ant2	7.539	0.5	Pass
NVNT	b	2462	Ant2	8.064	0.5	Pass
NVNT	g	2412	Ant1	16.356	0.5	Pass
NVNT	g	2437	Ant1	16.512	0.5	Pass
NVNT	g	2462	Ant1	16.308	0.5	Pass
NVNT	g	2412	Ant2	13.206	0.5	Pass
NVNT	g	2437	Ant2	16.326	0.5	Pass
NVNT	g	2462	Ant2	16.35	0.5	Pass
NVNT	n20	2412	Ant1	17.583	0.5	Pass
NVNT	n20	2437	Ant1	17.541	0.5	Pass
NVNT	n20	2462	Ant1	17.607	0.5	Pass
NVNT	n20	2412	Ant2	17.34	0.5	Pass
NVNT	n20	2437	Ant2	17.685	0.5	Pass
NVNT	n20	2462	Ant2	17.517	0.5	Pass
NVNT	n40	2422	Ant1	36.312	0.5	Pass
NVNT	n40	2437	Ant1	36.366	0.5	Pass
NVNT	n40	2452	Ant1	36.33	0.5	Pass
NVNT	n40	2422	Ant2	36.048	0.5	Pass
NVNT	n40	2437	Ant2	36.318	0.5	Pass
NVNT	n40	2452	Ant2	35.682	0.5	Pass
NVNT	ax20	2412	Ant1	17.694	0.5	Pass
NVNT	ax20	2437	Ant1	19.02	0.5	Pass
NVNT	ax20	2462	Ant1	18.732	0.5	Pass
NVNT	ax20	2412	Ant2	0.945	0.5	Pass
NVNT	ax20	2437	Ant2	18.999	0.5	Pass
NVNT	ax20	2462	Ant2	18.642	0.5	Pass
NVNT	ax40	2422	Ant1	36.036	0.5	Pass
NVNT	ax40	2437	Ant1	37.764	0.5	Pass
NVNT	ax40	2452	Ant1	37.776	0.5	Pass
NVNT	ax40	2422	Ant2	35.682	0.5	Pass
NVNT	ax40	2437	Ant2	37.398	0.5	Pass
NVNT	ax40	2452	Ant2	37.572	0.5	Pass

Test Graphs

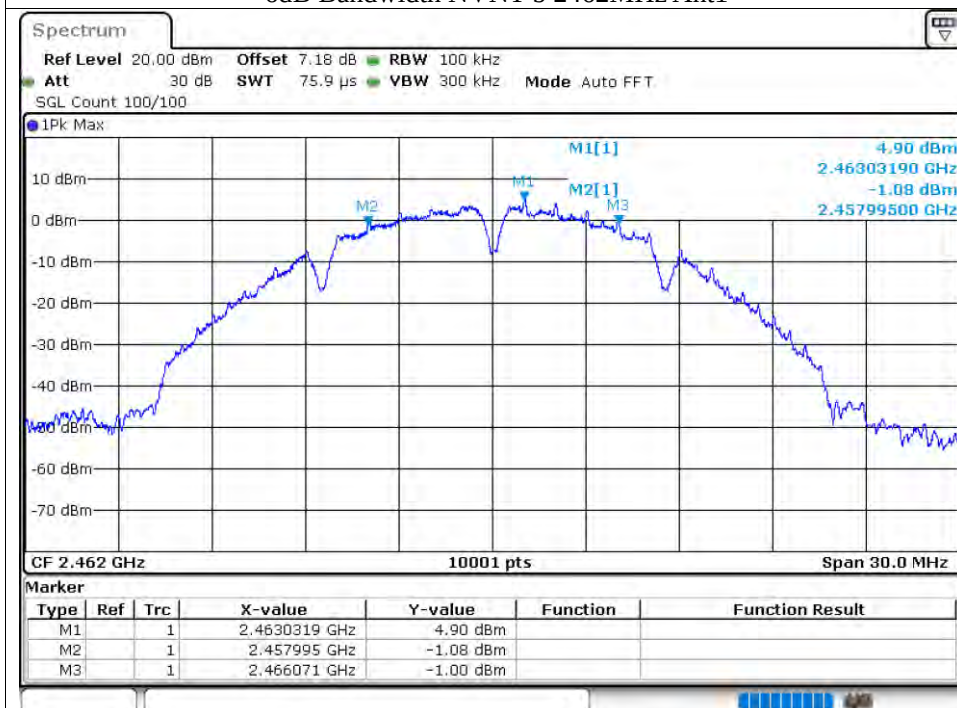
-6dB Bandwidth NVNT b 2412MHz Ant1



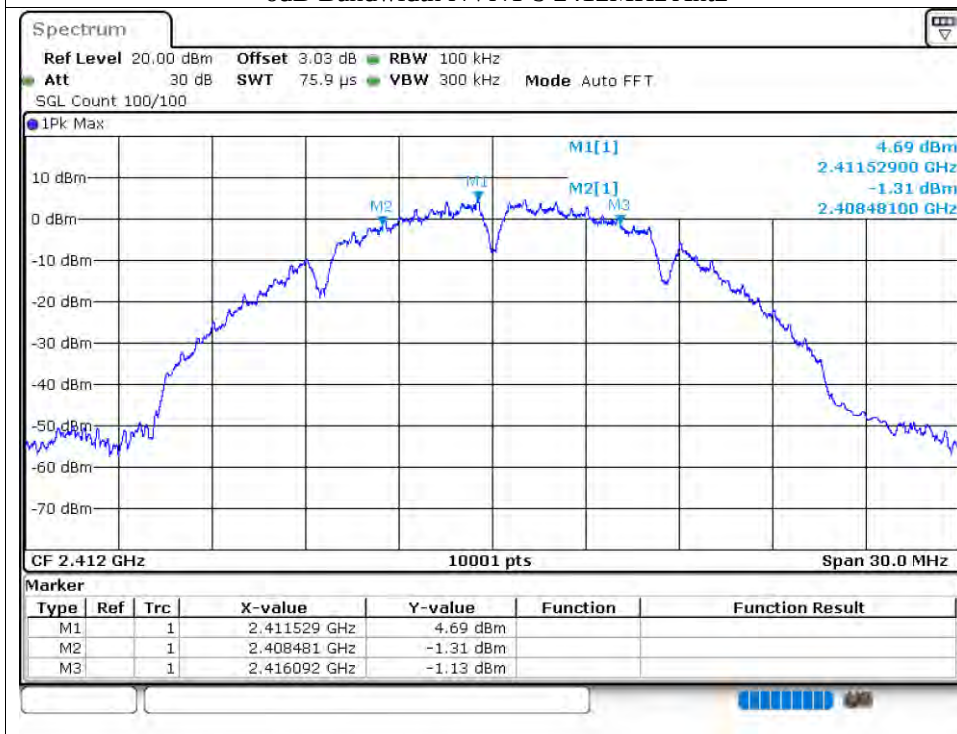
-6dB Bandwidth NVNT b 2437MHz Ant1



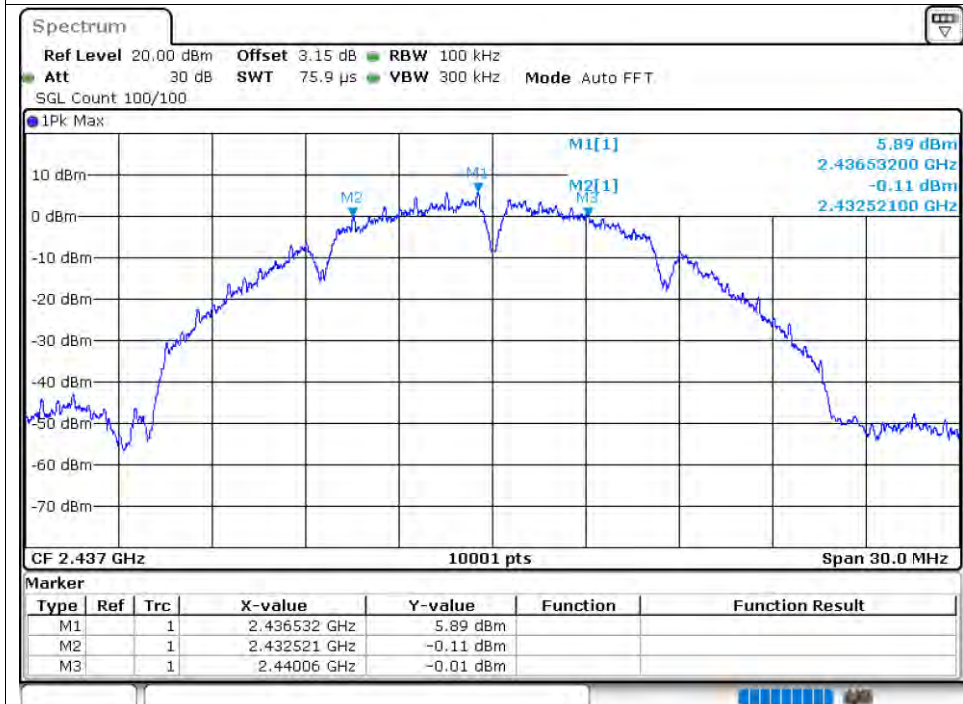
-6dB Bandwidth NVNT b 2462MHz Ant1



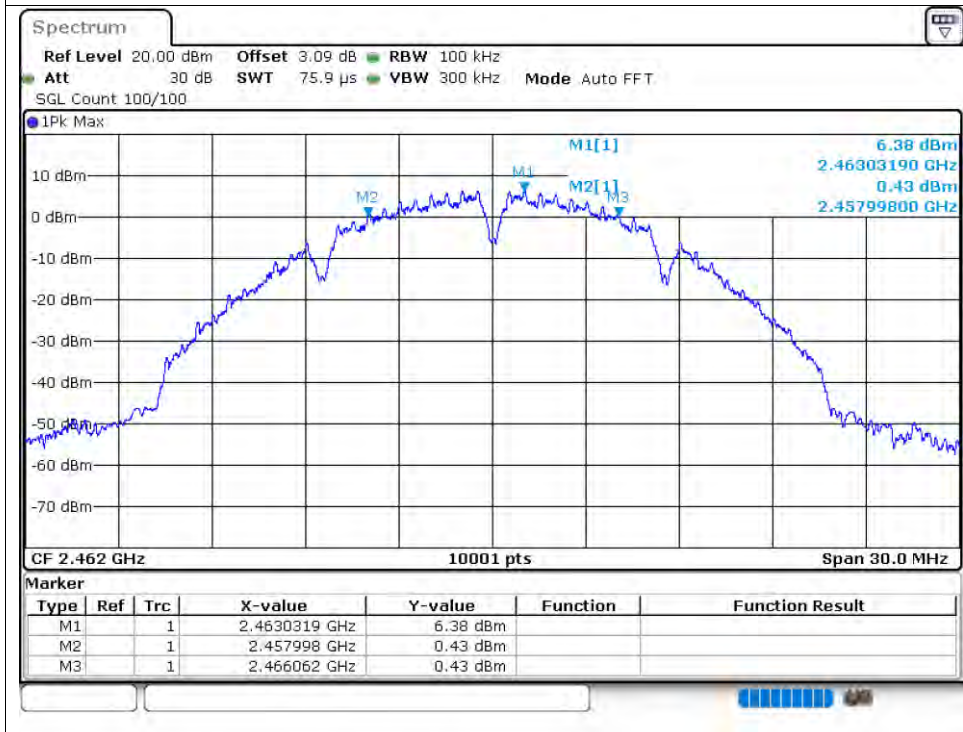
-6dB Bandwidth NVNT b 2412MHz Ant2



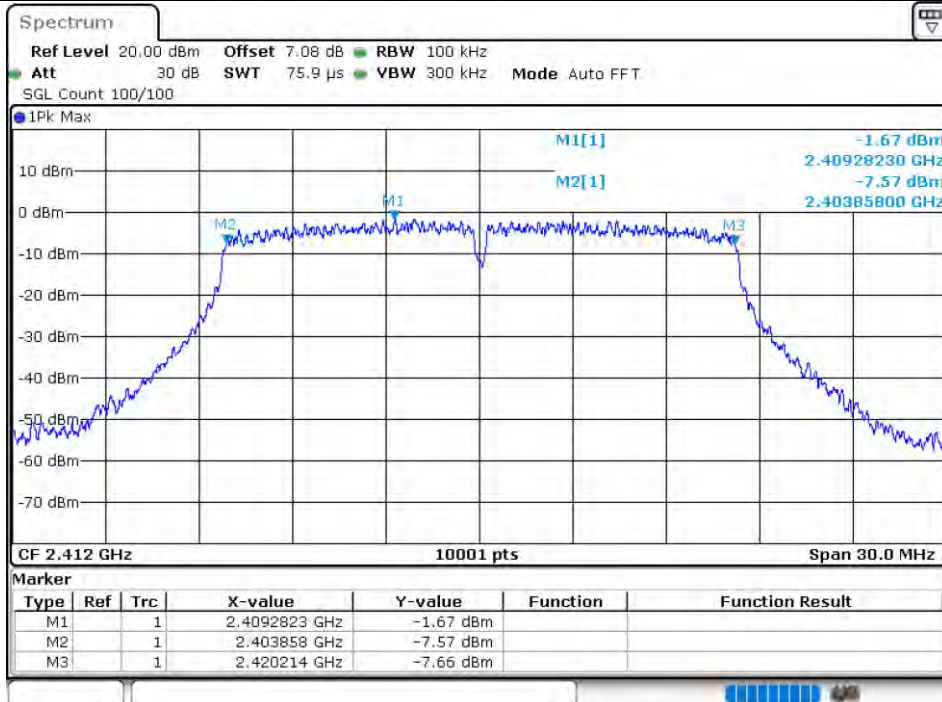
-6dB Bandwidth NVNT b 2437MHz Ant2



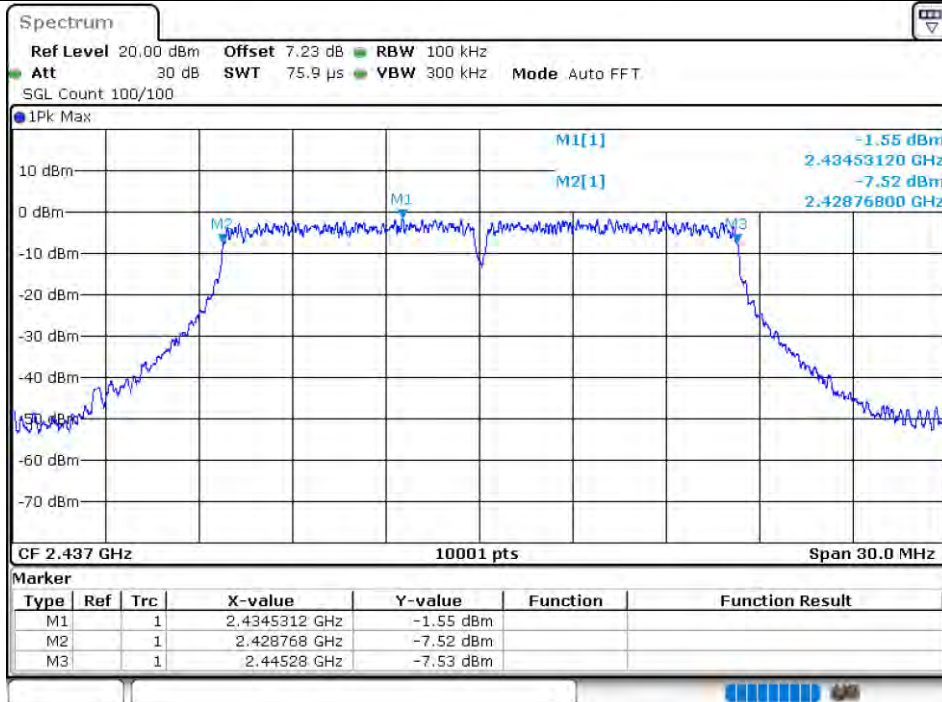
-6dB Bandwidth NVNT b 2462MHz Ant2



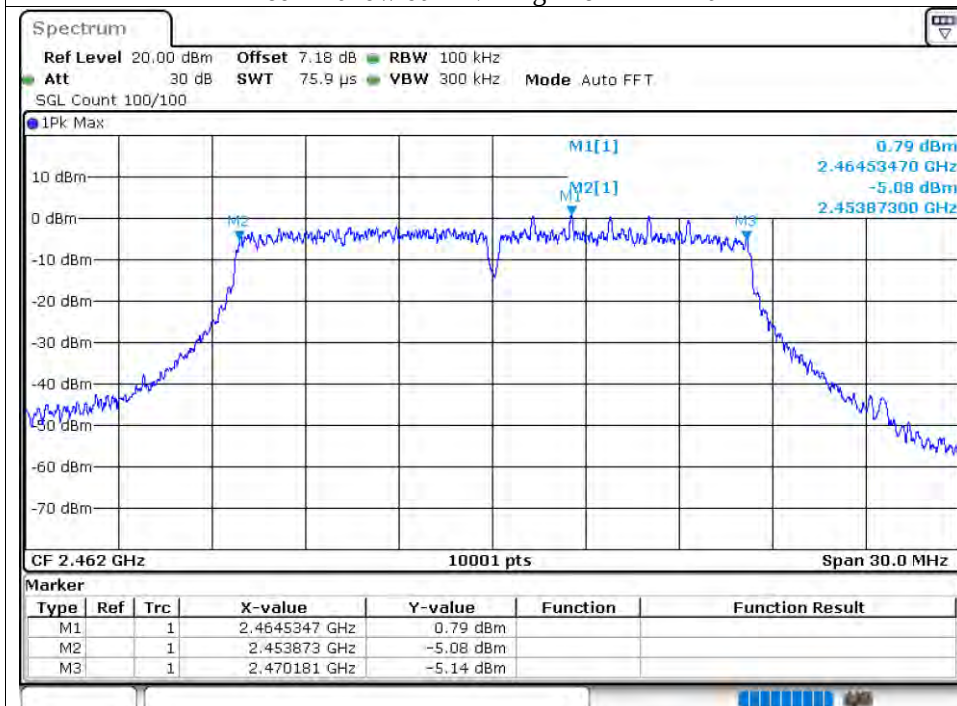
-6dB Bandwidth NVNT g 2412MHz Ant1



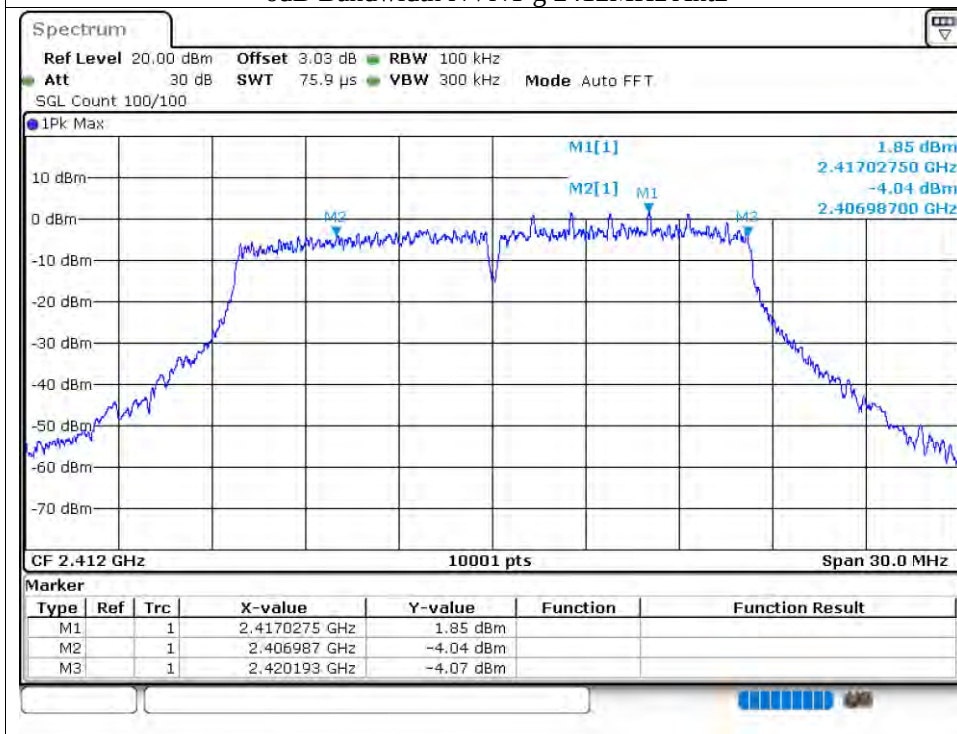
-6dB Bandwidth NVNT g 2437MHz Ant1



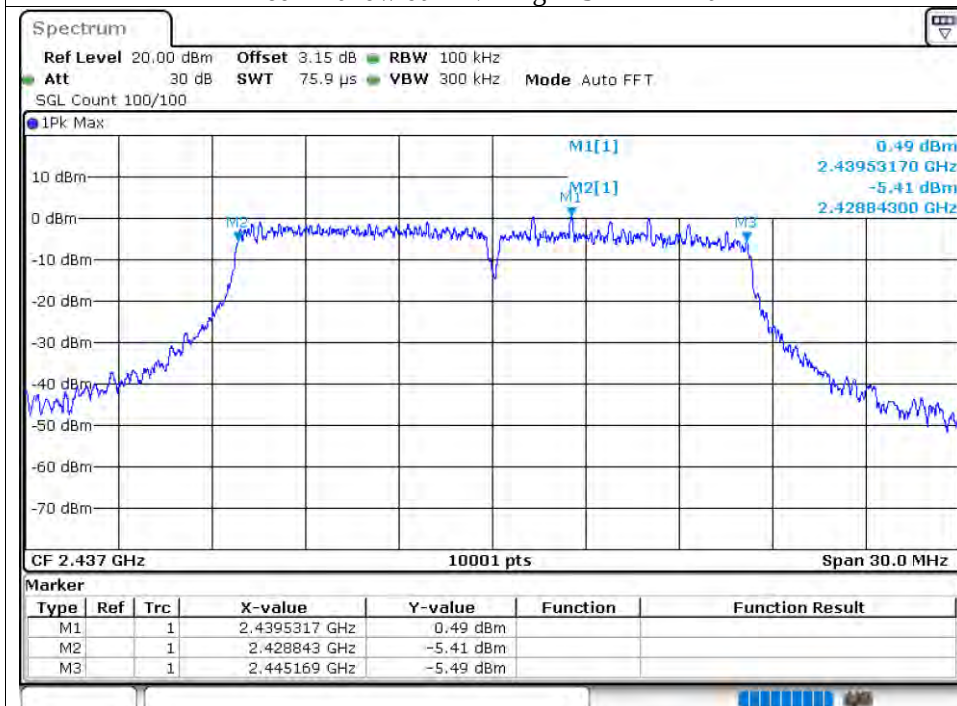
-6dB Bandwidth NVNT g 2462MHz Ant1



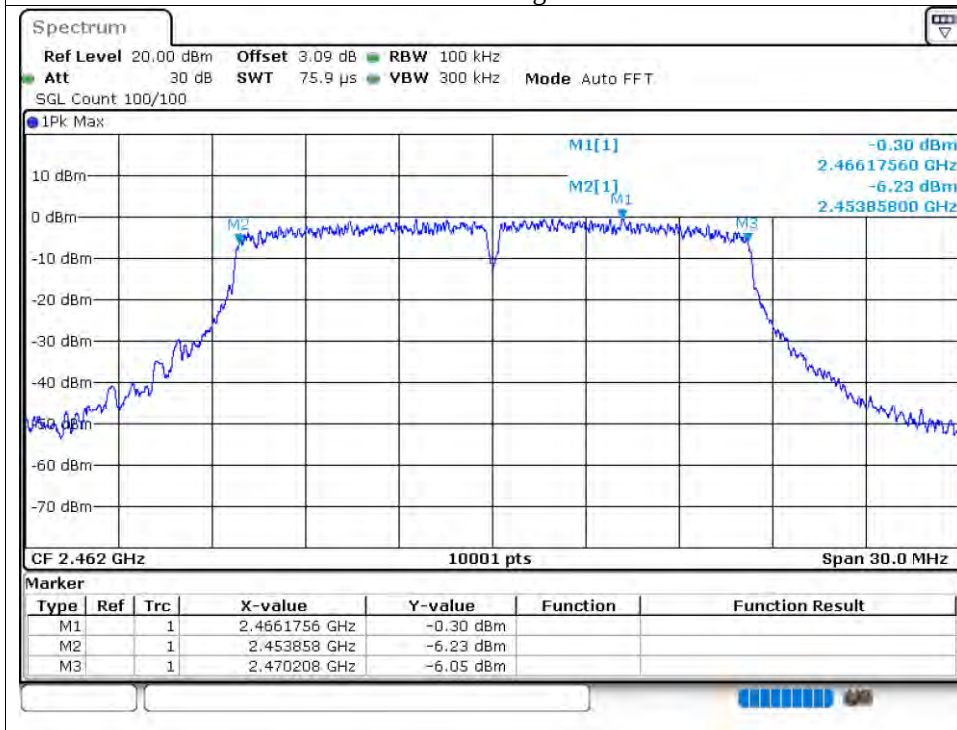
-6dB Bandwidth NVNT g 2412MHz Ant2



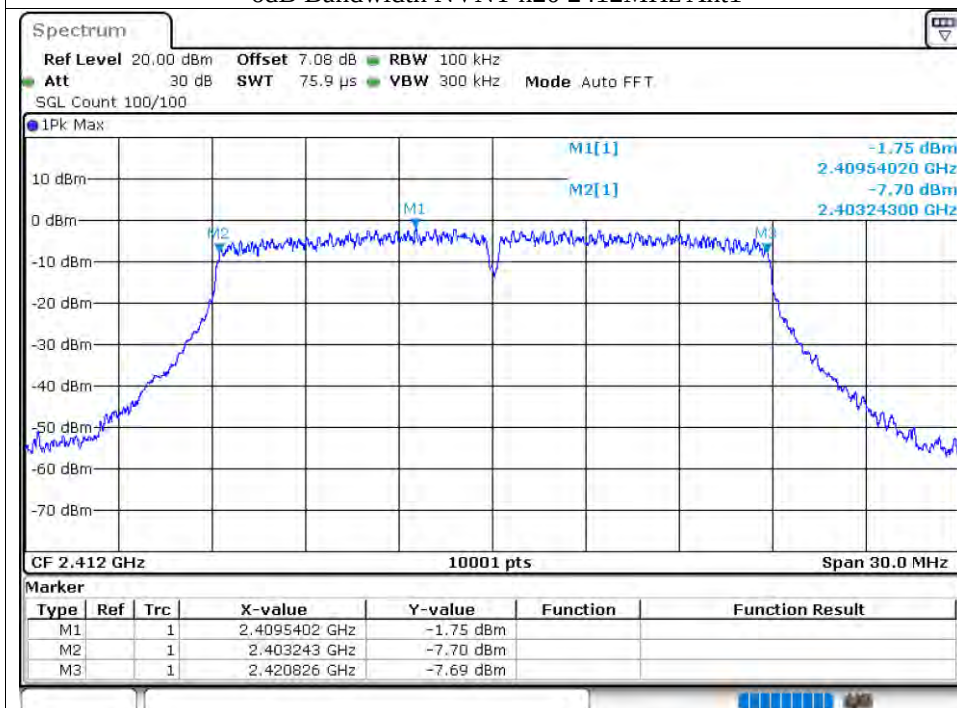
-6dB Bandwidth NVNT g 2437MHz Ant2



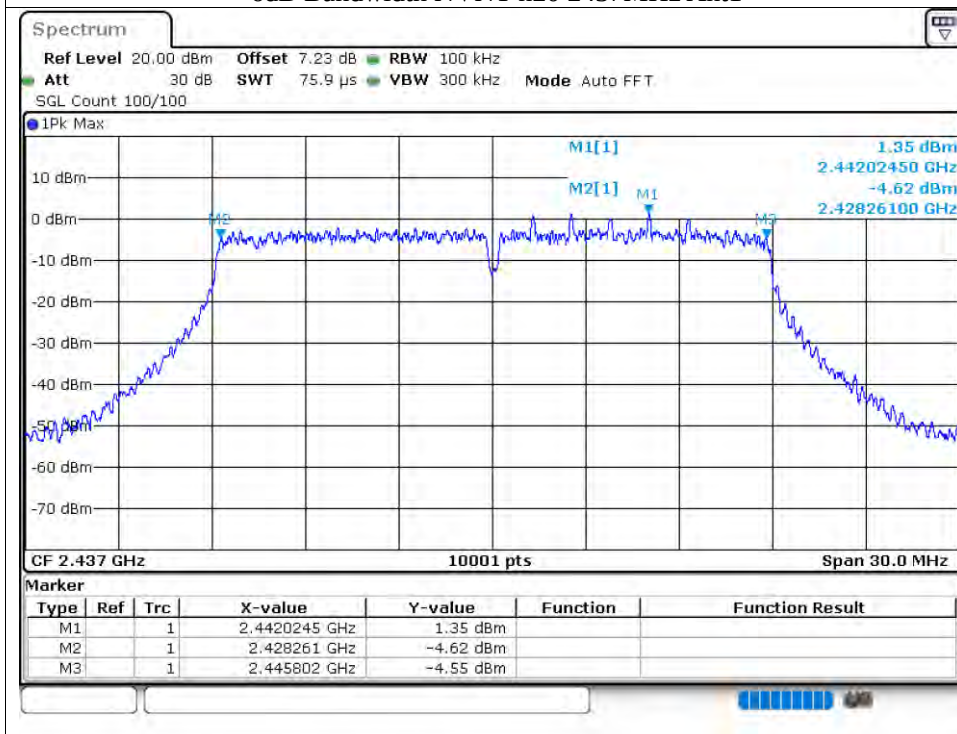
-6dB Bandwidth NVNT g 2462MHz Ant2



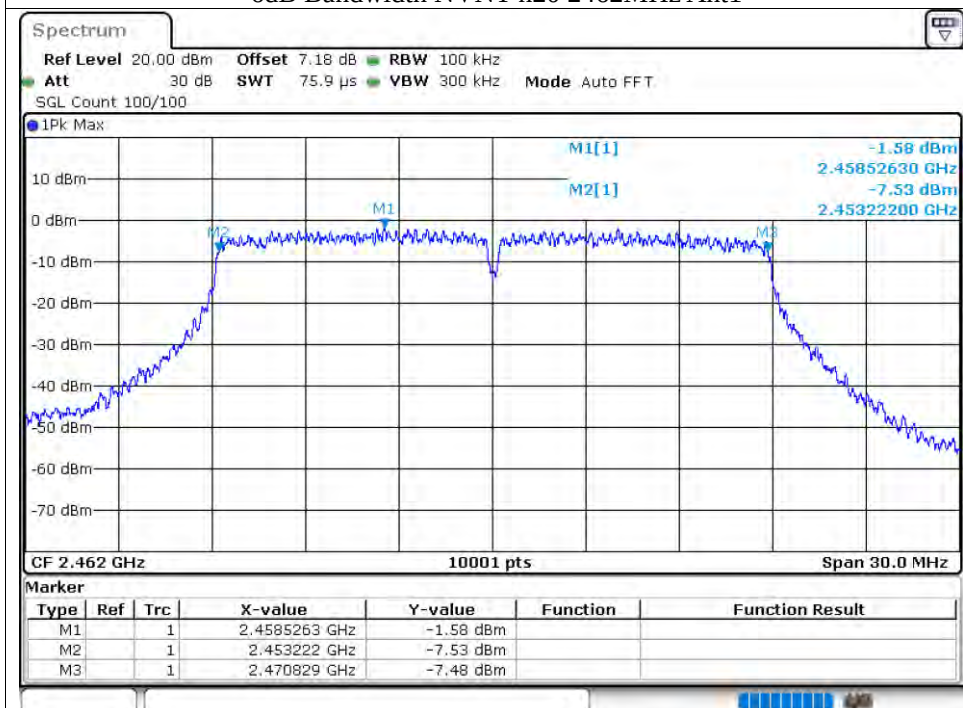
-6dB Bandwidth NVNT n20 2412MHz Ant1



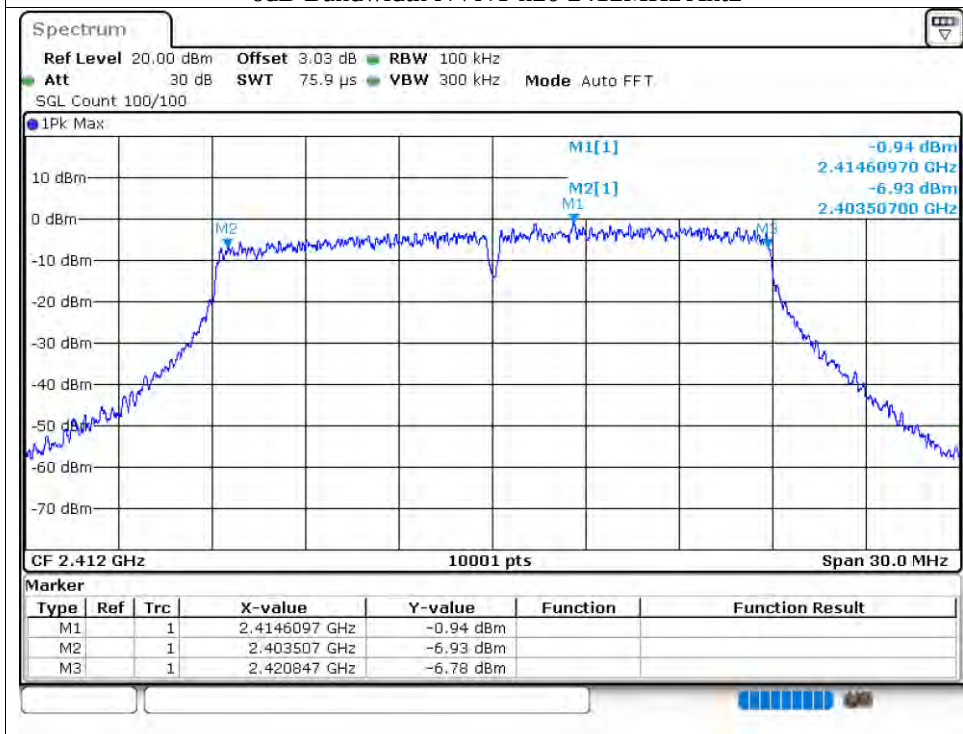
-6dB Bandwidth NVNT n20 2437MHz Ant1



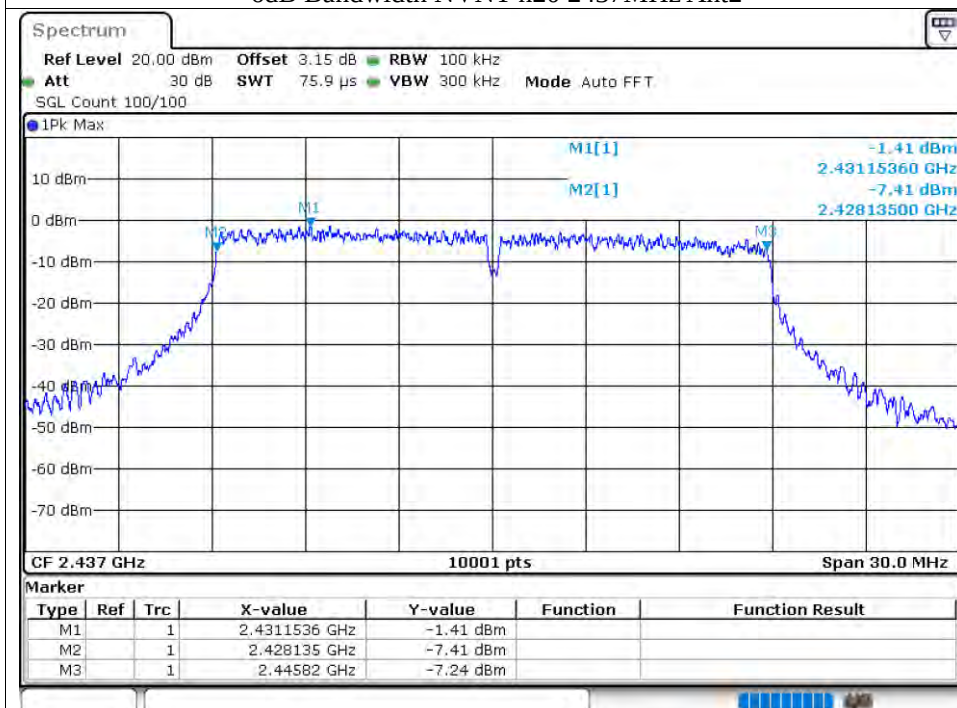
-6dB Bandwidth NVNT n20 2462MHz Ant1



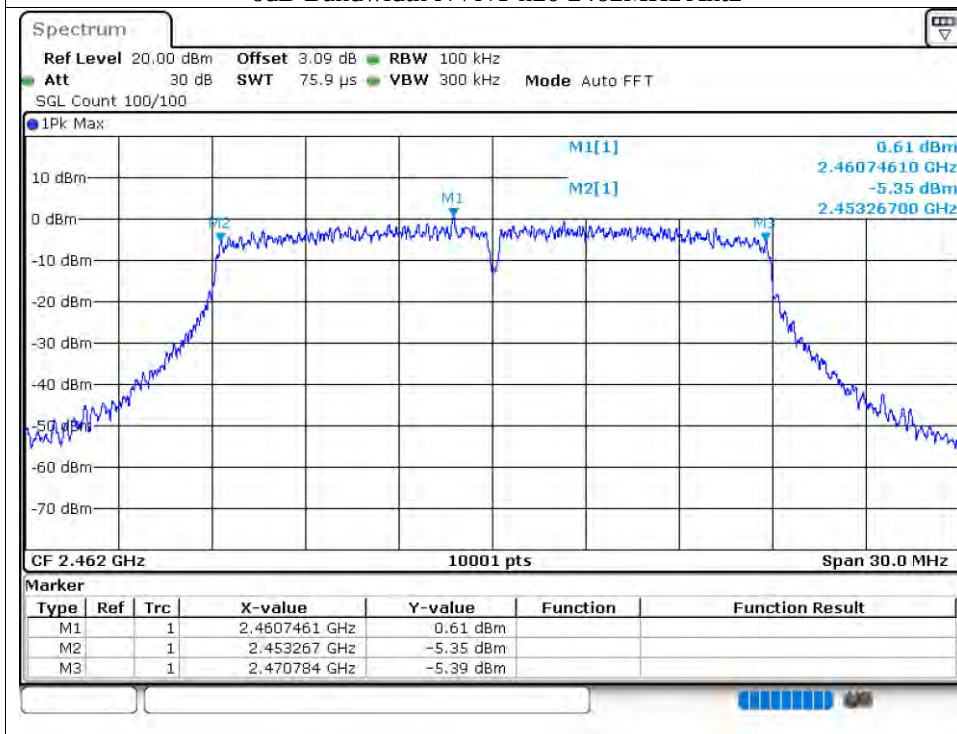
-6dB Bandwidth NVNT n20 2412MHz Ant2



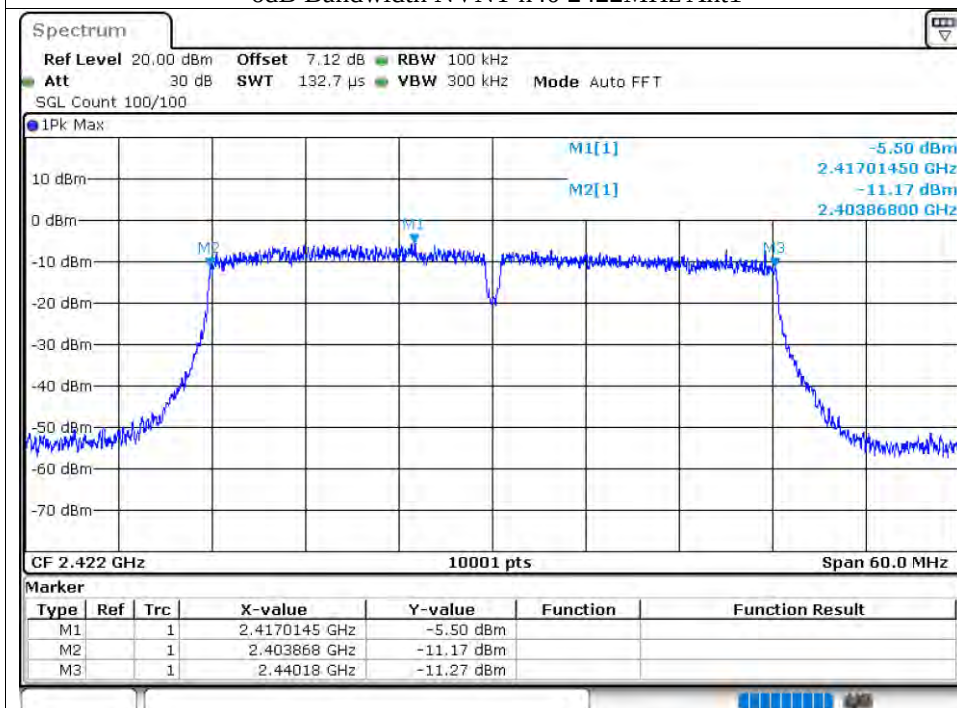
-6dB Bandwidth NVNT n20 2437MHz Ant2



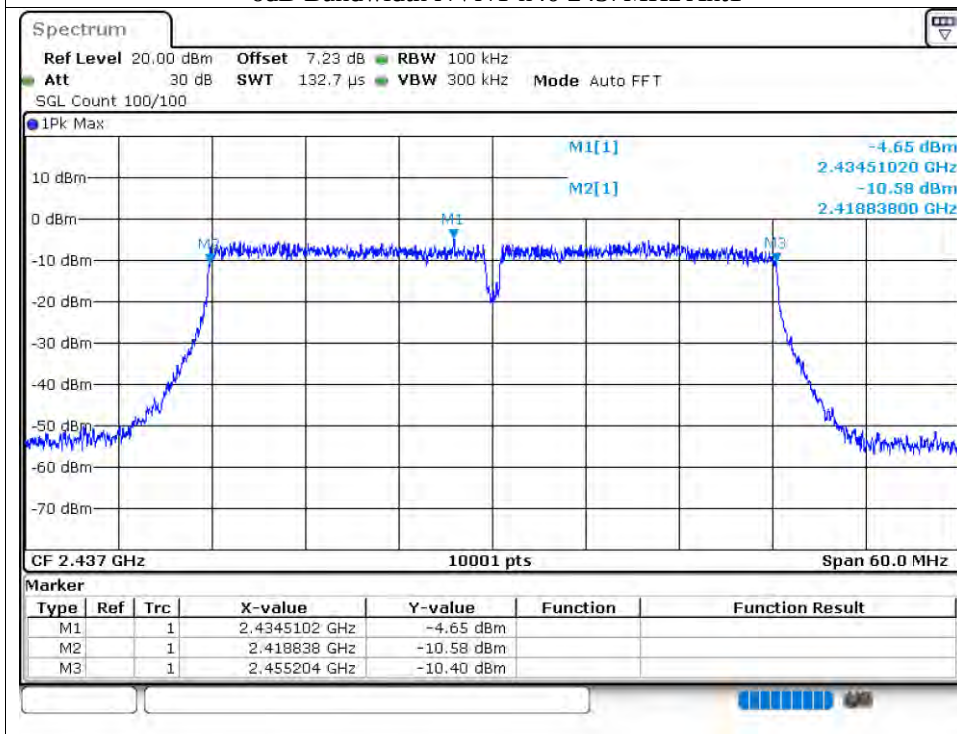
-6dB Bandwidth NVNT n20 2462MHz Ant2



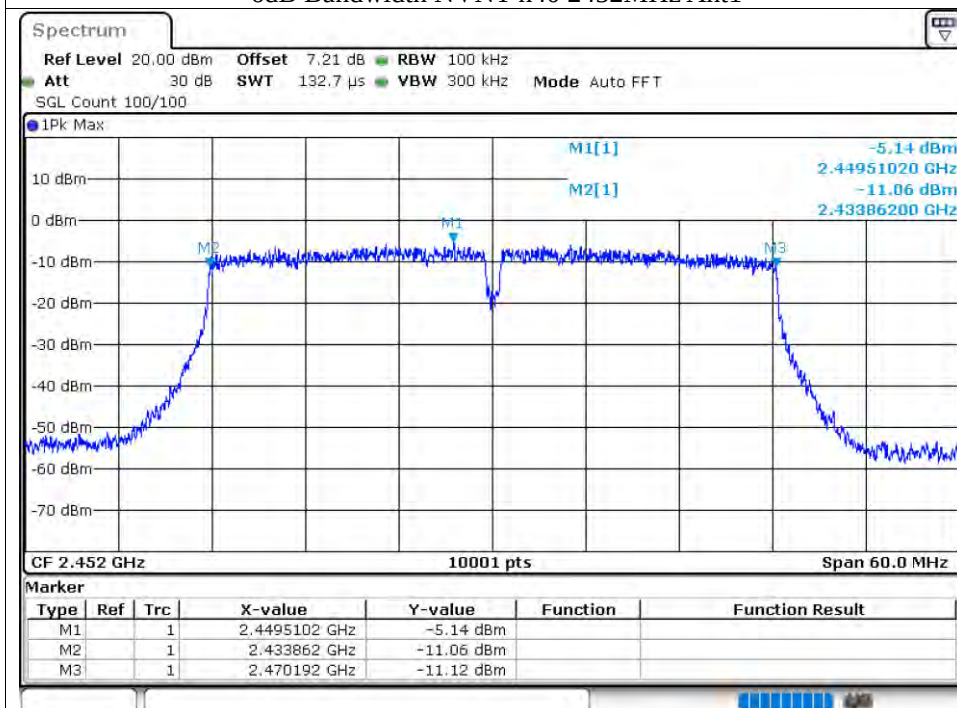
-6dB Bandwidth NVNT n40 2422MHz Ant1



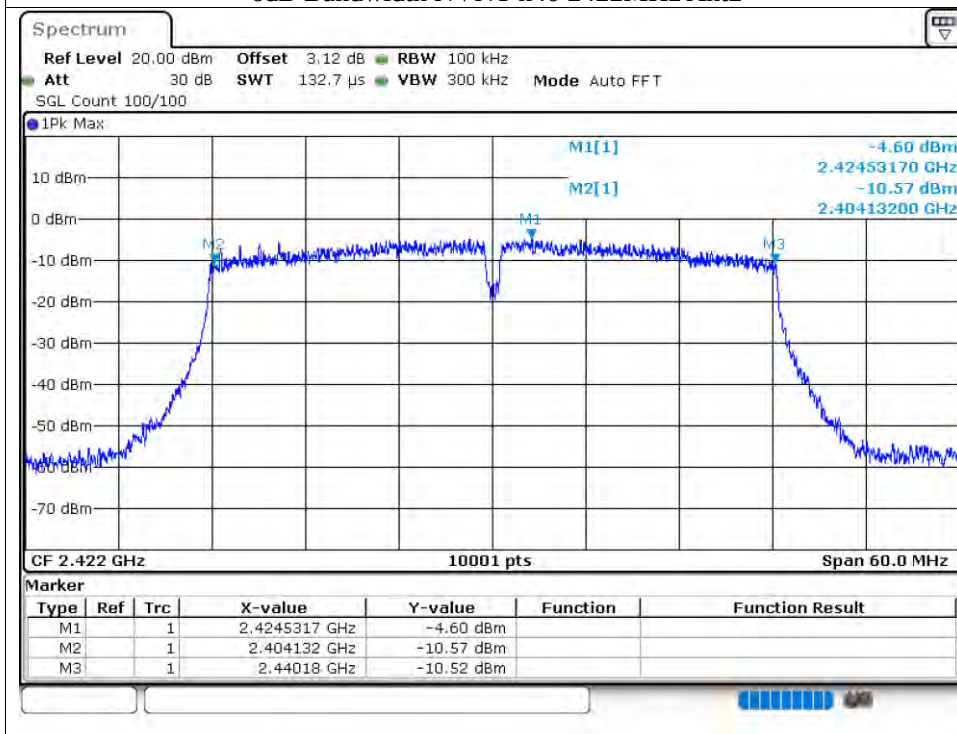
-6dB Bandwidth NVNT n40 2437MHz Ant1



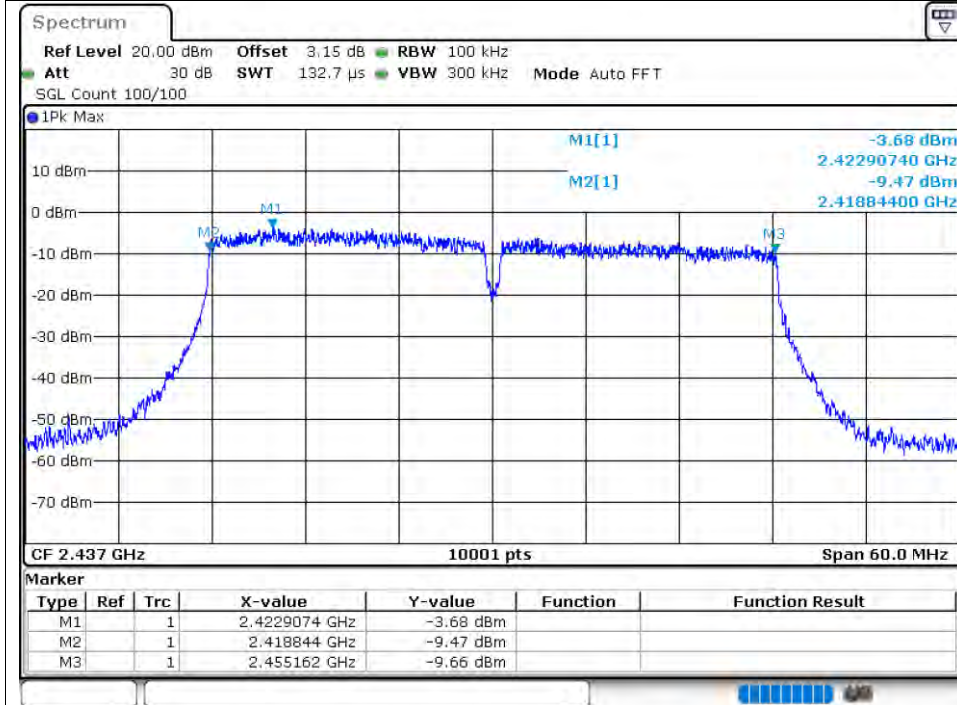
-6dB Bandwidth NVNT n40 2452MHz Ant1



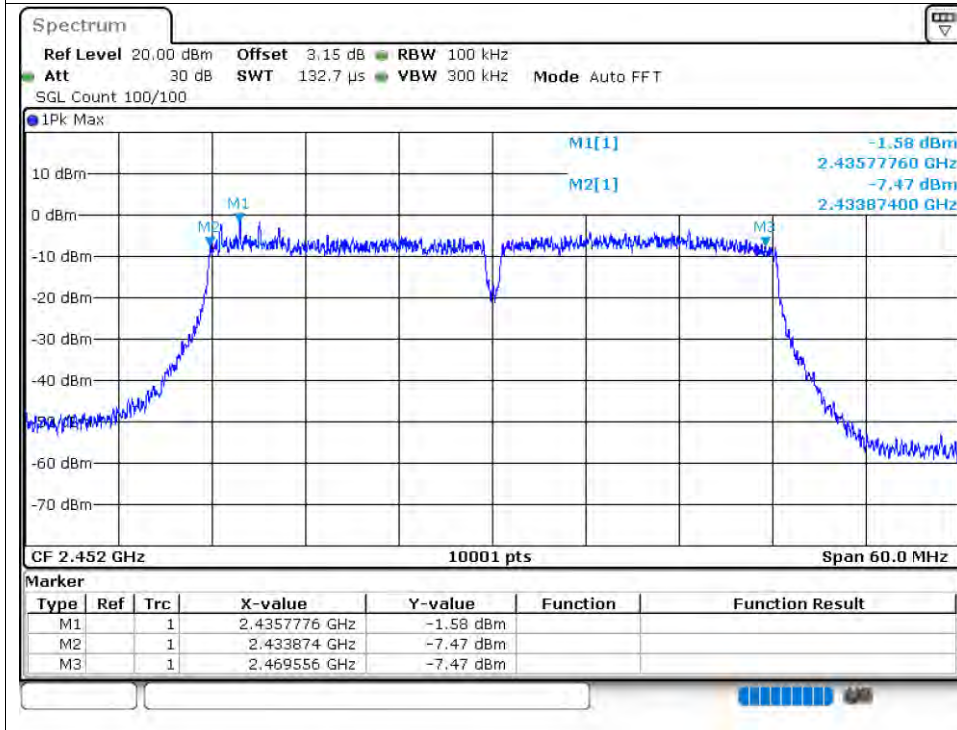
-6dB Bandwidth NVNT n40 2422MHz Ant2



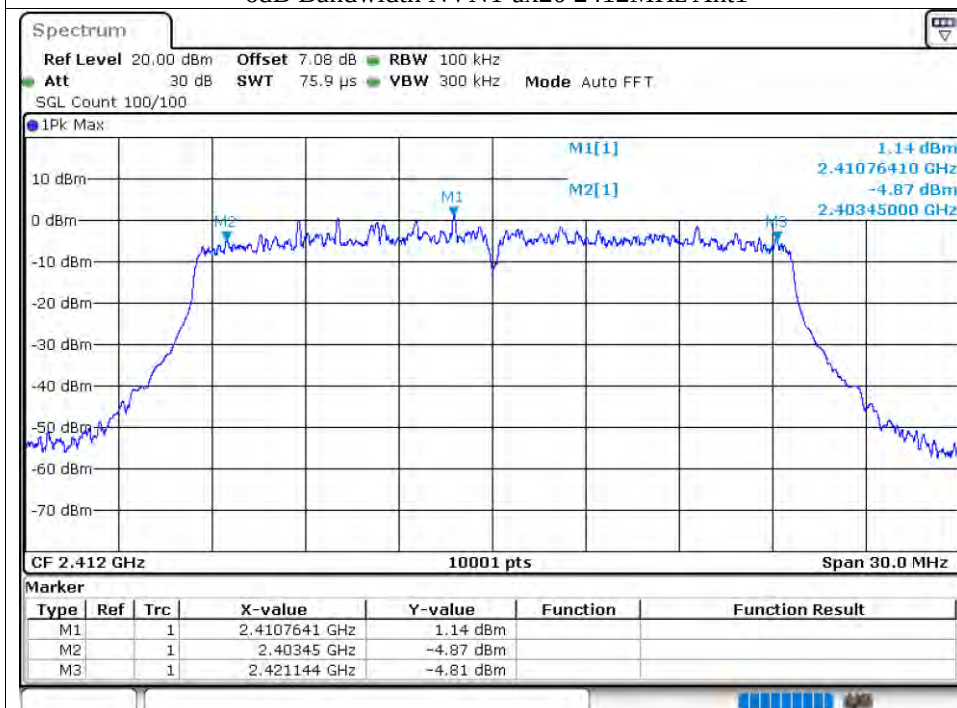
-6dB Bandwidth NVNT n40 2437MHz Ant2



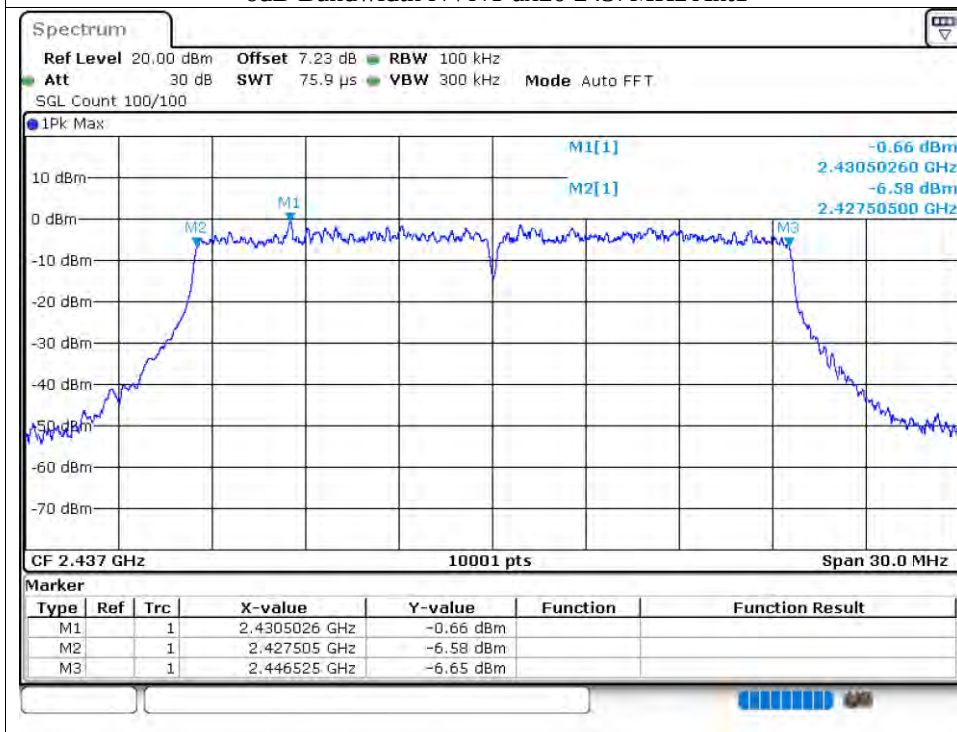
-6dB Bandwidth NVNT n40 2452MHz Ant2



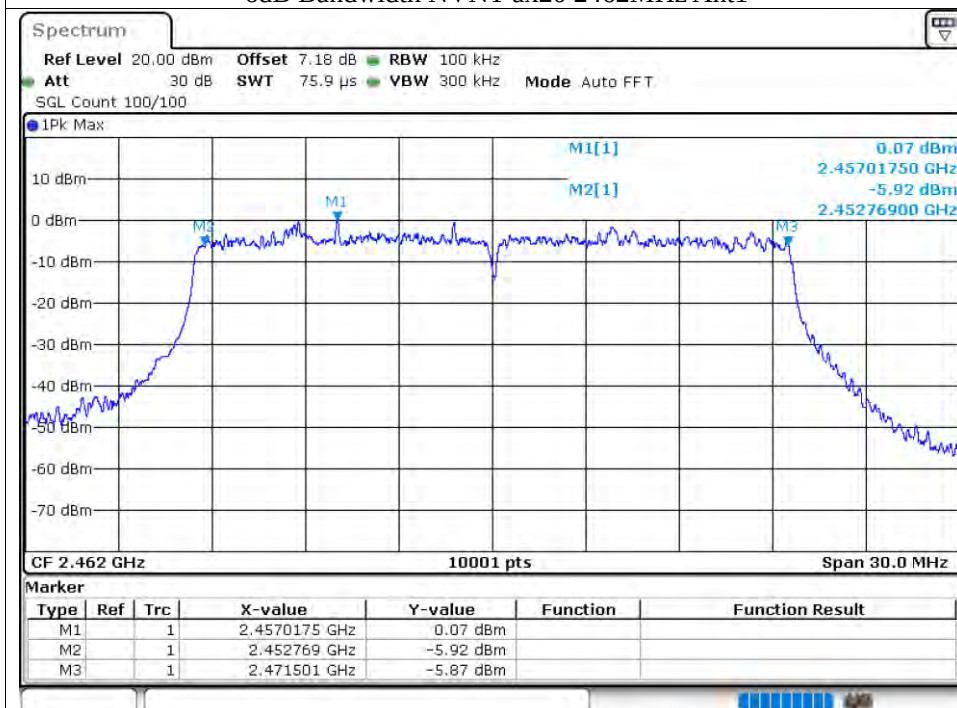
-6dB Bandwidth NVNT ax20 2412MHz Ant1



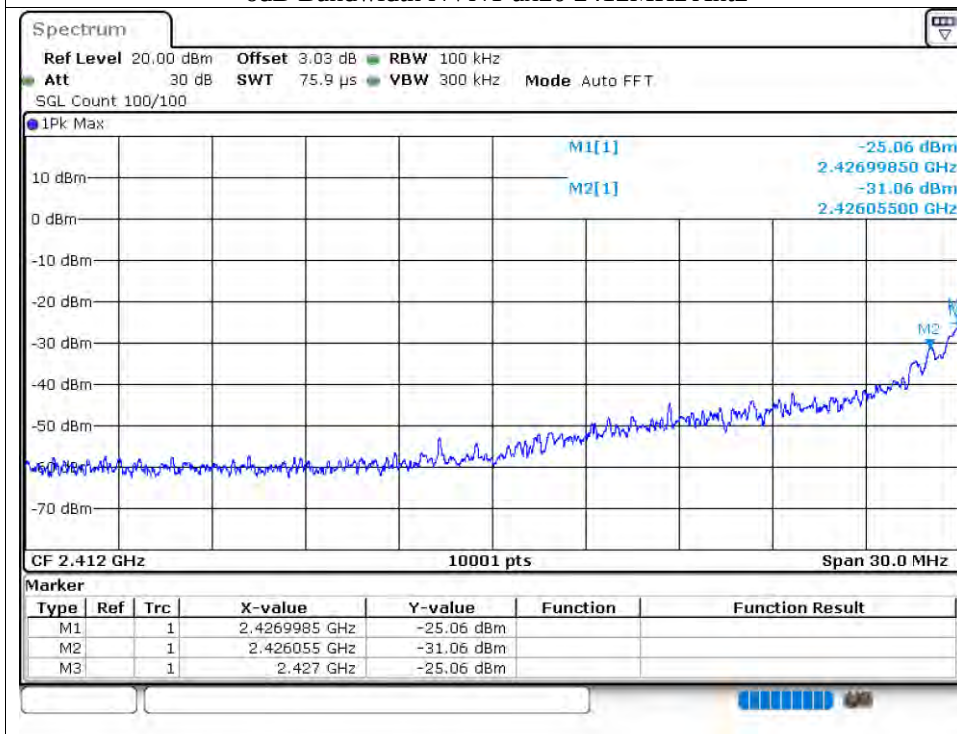
-6dB Bandwidth NVNT ax20 2437MHz Ant1



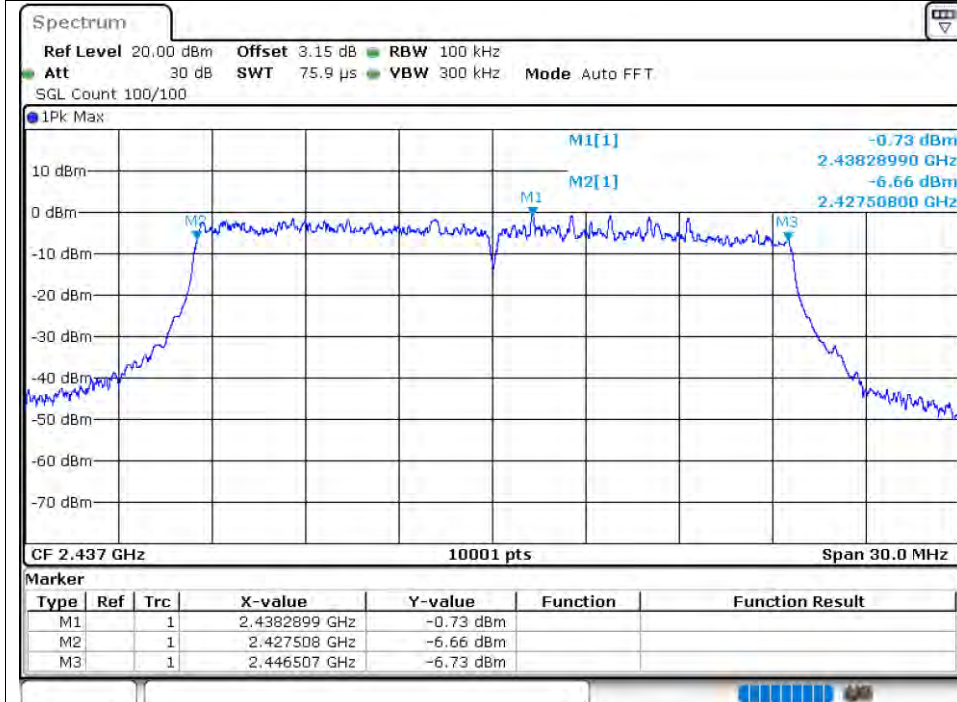
-6dB Bandwidth NVNT ax20 2462MHz Ant1



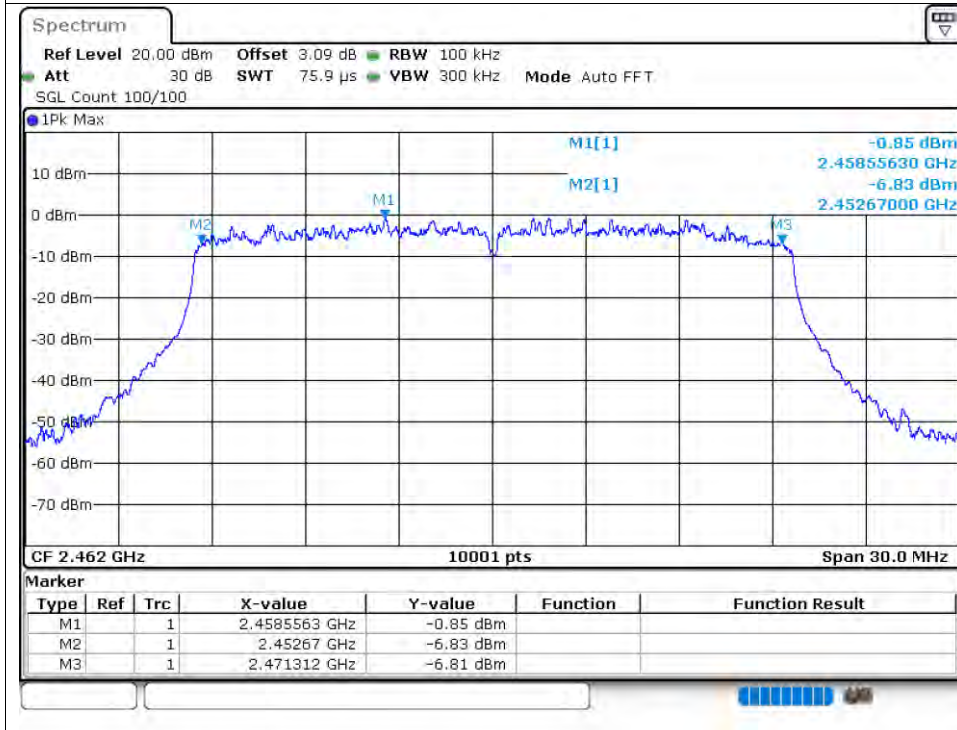
-6dB Bandwidth NVNT ax20 2412MHz Ant2



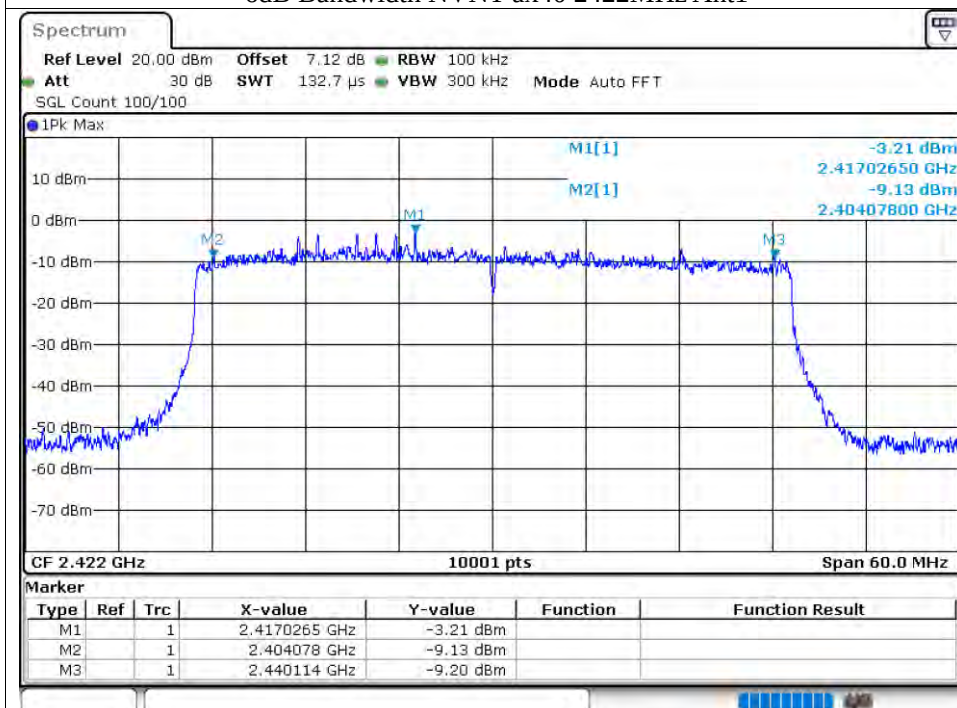
-6dB Bandwidth NVNT ax20 2437MHz Ant2



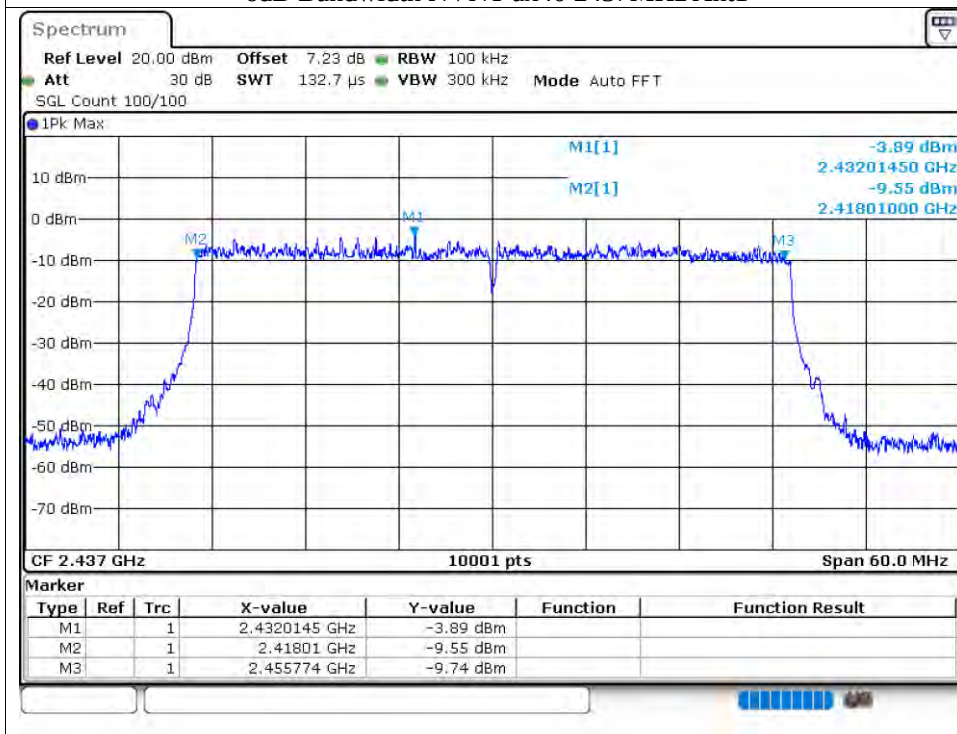
-6dB Bandwidth NVNT ax20 2462MHz Ant2



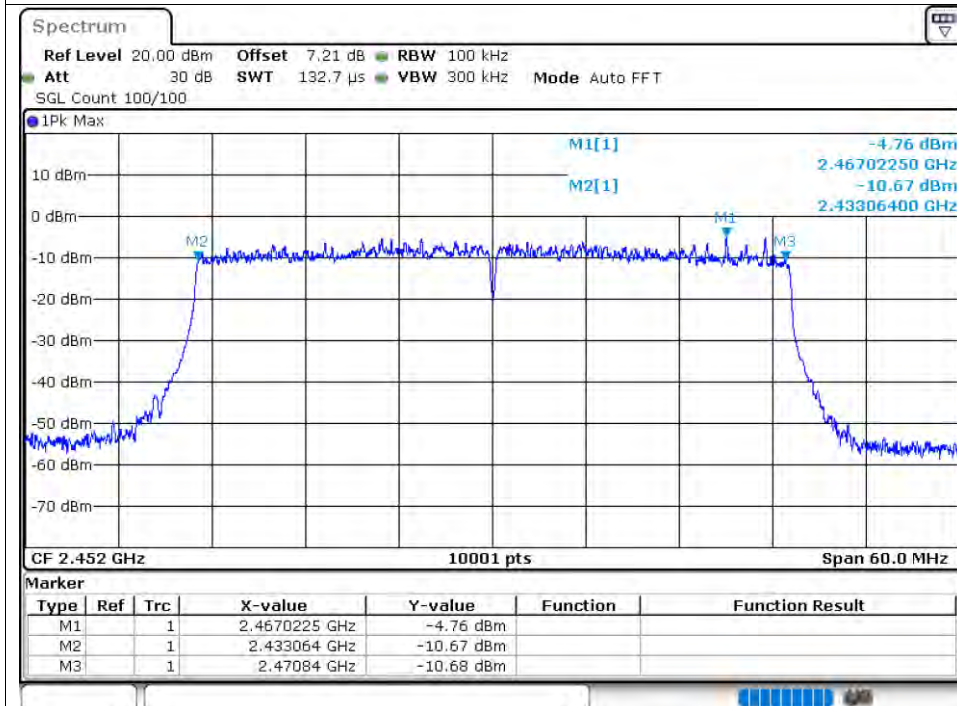
-6dB Bandwidth NVNT ax40 2422MHz Ant1



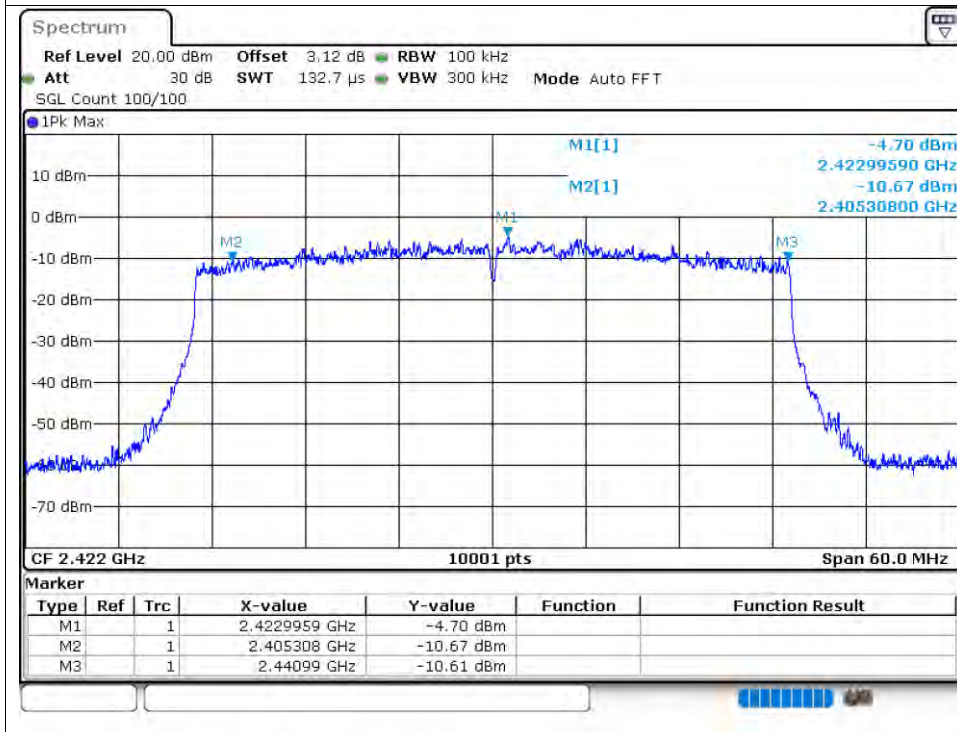
-6dB Bandwidth NVNT ax40 2437MHz Ant1



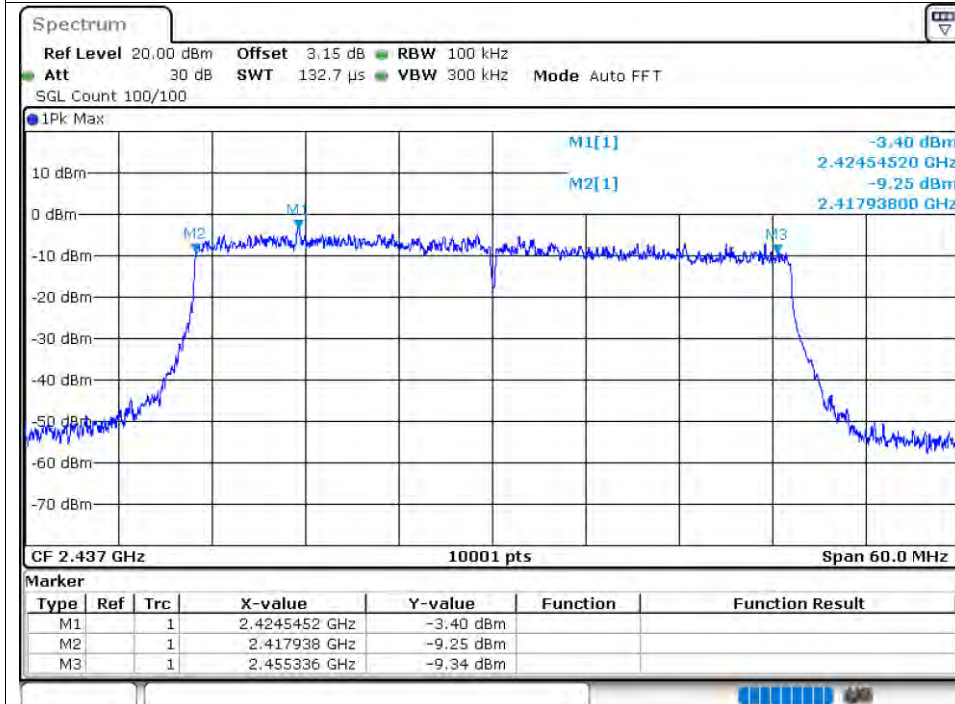
-6dB Bandwidth NVNT ax40 2452MHz Ant1



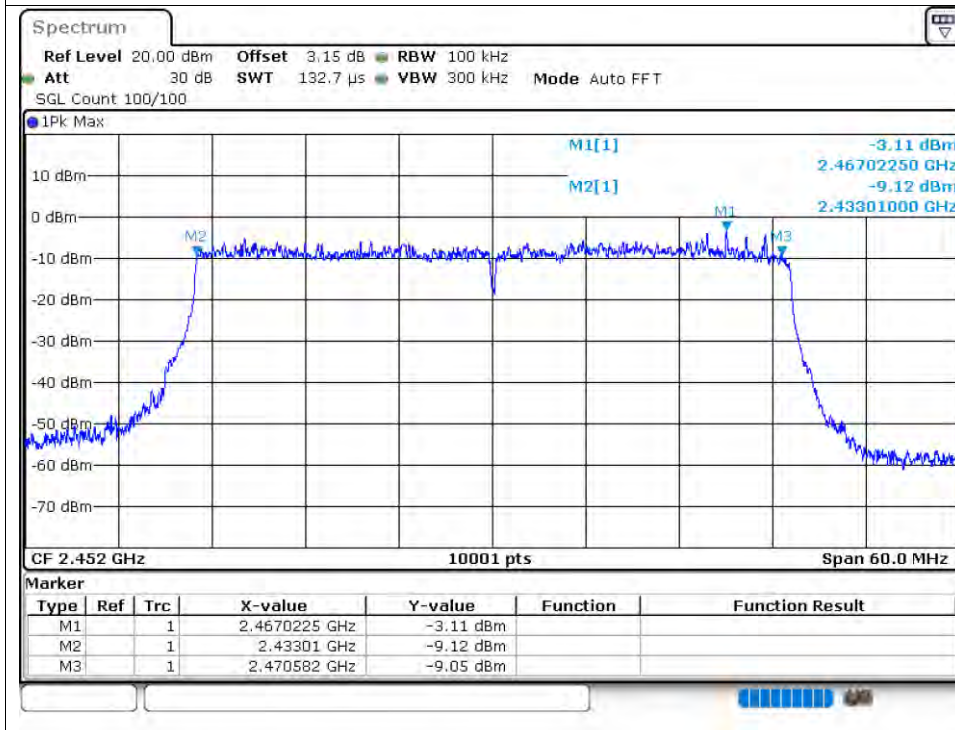
-6dB Bandwidth NVNT ax40 2422MHz Ant2



-6dB Bandwidth NVNT ax40 2437MHz Ant2



-6dB Bandwidth NVNT ax40 2452MHz Ant2

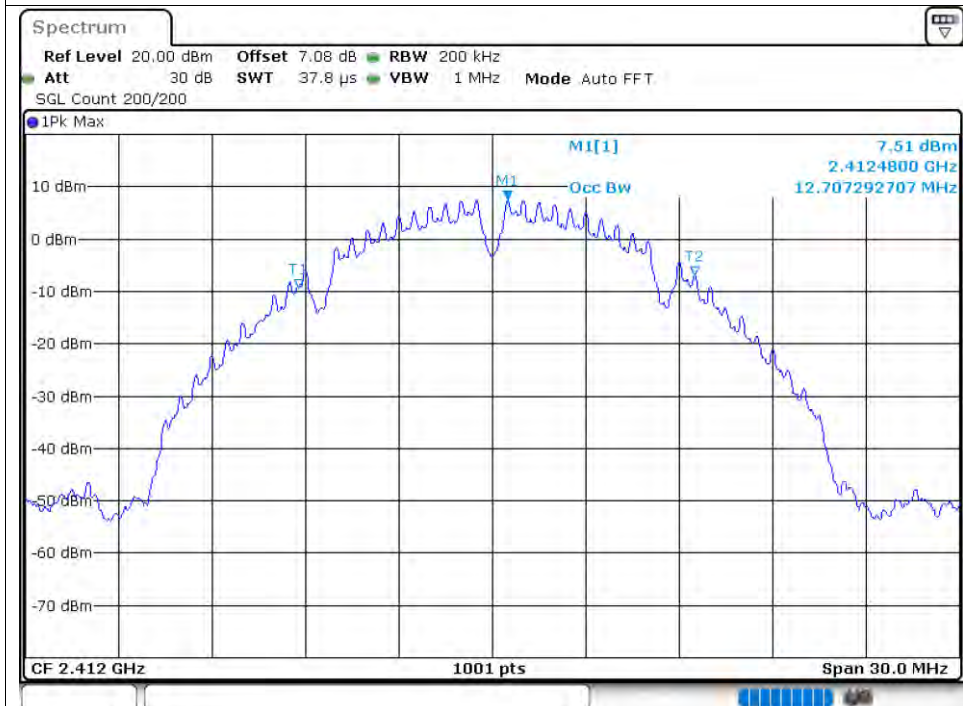


8.4 OCCUPIED CHANNEL BANDWIDTH

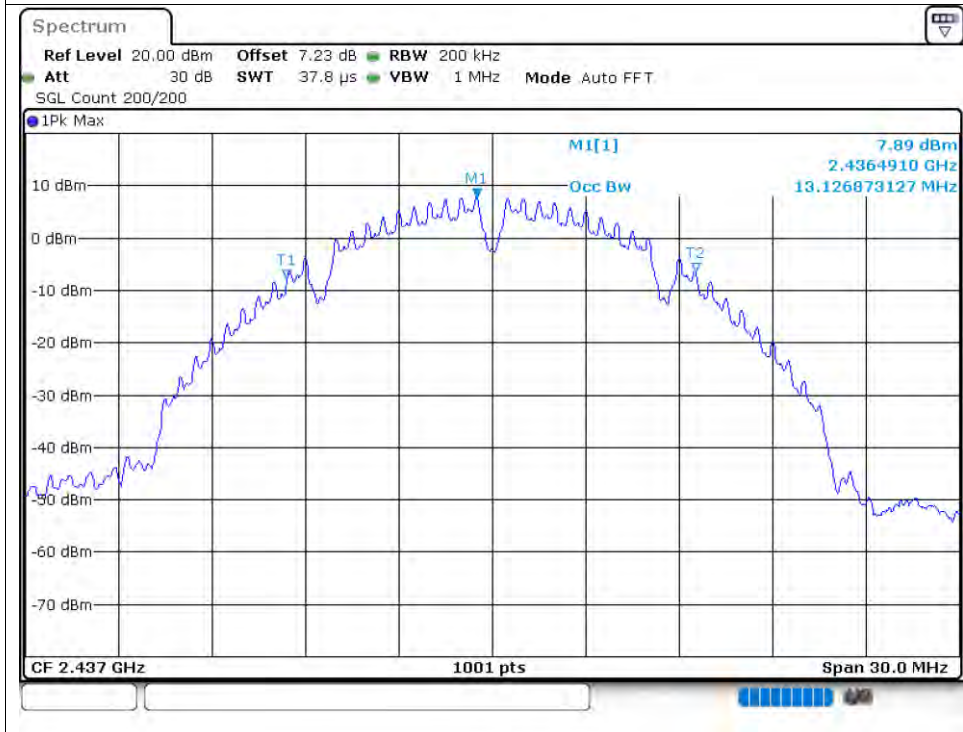
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.707
NVNT	b	2437	Ant1	13.127
NVNT	b	2462	Ant1	13.247
NVNT	b	2412	Ant2	13.232
NVNT	b	2437	Ant2	13.334
NVNT	b	2462	Ant2	12.845
NVNT	g	2412	Ant1	16.297
NVNT	g	2437	Ant1	16.396
NVNT	g	2462	Ant1	16.501
NVNT	g	2412	Ant2	16.396
NVNT	g	2437	Ant2	16.348
NVNT	g	2462	Ant2	16.285
NVNT	n20	2412	Ant1	17.476
NVNT	n20	2437	Ant1	17.542
NVNT	n20	2462	Ant1	17.599
NVNT	n20	2412	Ant2	17.581
NVNT	n20	2437	Ant2	17.593
NVNT	n20	2462	Ant2	17.473
NVNT	n40	2422	Ant1	35.906
NVNT	n40	2437	Ant1	36.122
NVNT	n40	2452	Ant1	36.026
NVNT	n40	2422	Ant2	35.78
NVNT	n40	2437	Ant2	36.032
NVNT	n40	2452	Ant2	36.134
NVNT	ax20	2412	Ant1	18.79
NVNT	ax20	2437	Ant1	18.919
NVNT	ax20	2462	Ant1	18.925
NVNT	ax20	2412	Ant2	18.94
NVNT	ax20	2437	Ant2	19
NVNT	ax20	2462	Ant2	18.811
NVNT	ax40	2422	Ant1	37.598
NVNT	ax40	2437	Ant1	37.748
NVNT	ax40	2452	Ant1	37.67
NVNT	ax40	2422	Ant2	37.46
NVNT	ax40	2437	Ant2	37.664
NVNT	ax40	2452	Ant2	37.796

Test Graphs

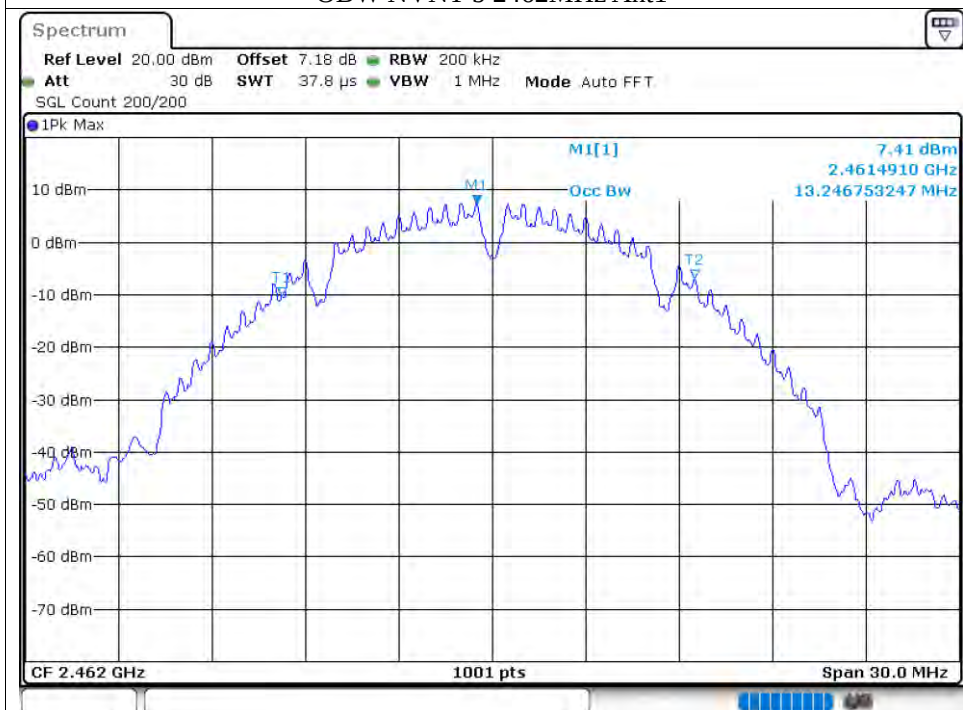
OBW NVNT b 2412MHz Ant1



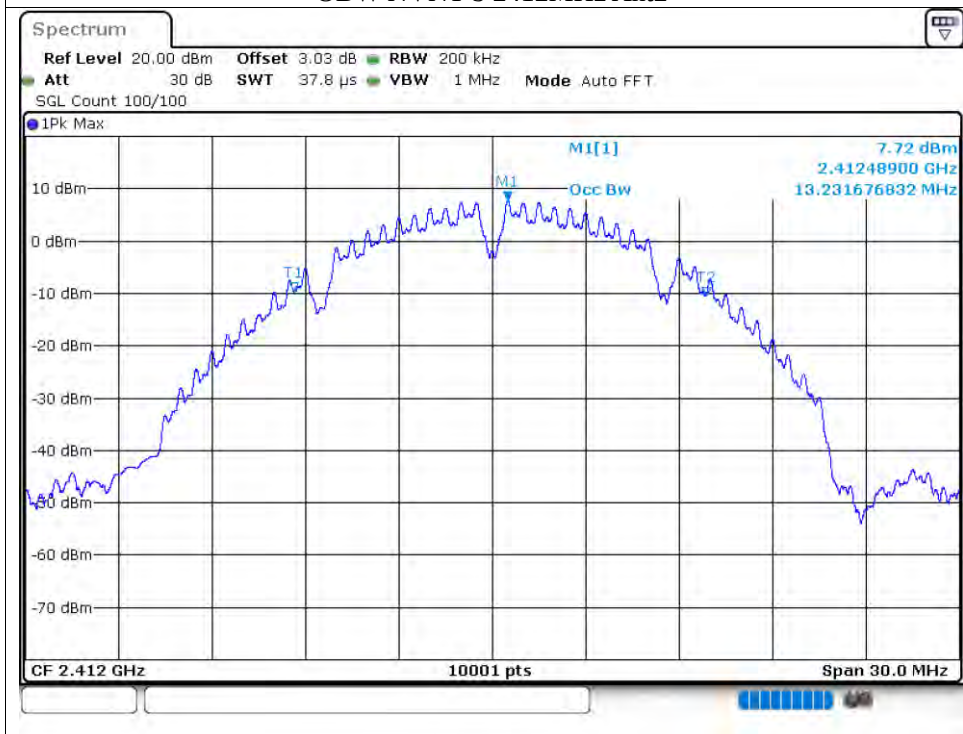
OBW NVNT b 2437MHz Ant1



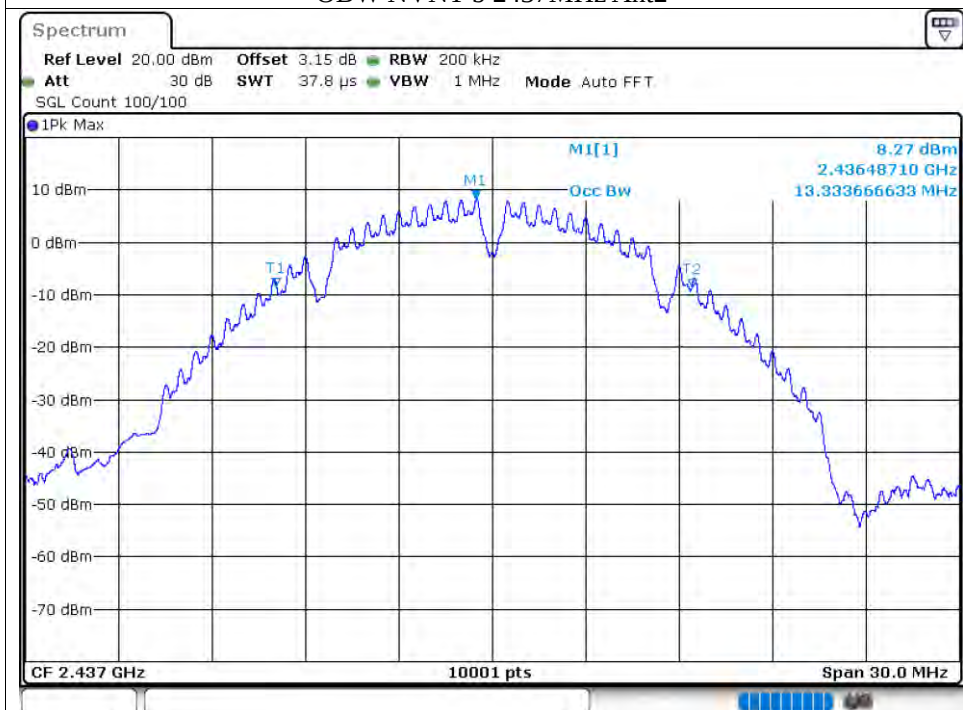
OBW NVNT b 2462MHz Ant1



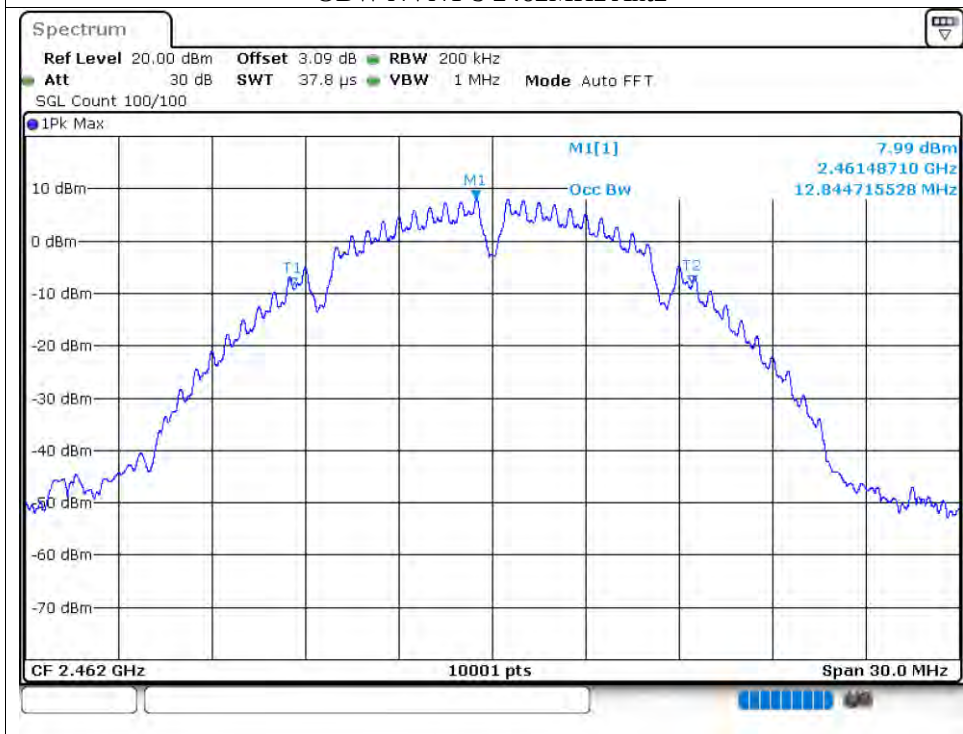
OBW NVNT b 2412MHz Ant2



OBW NVNT b 2437MHz Ant2



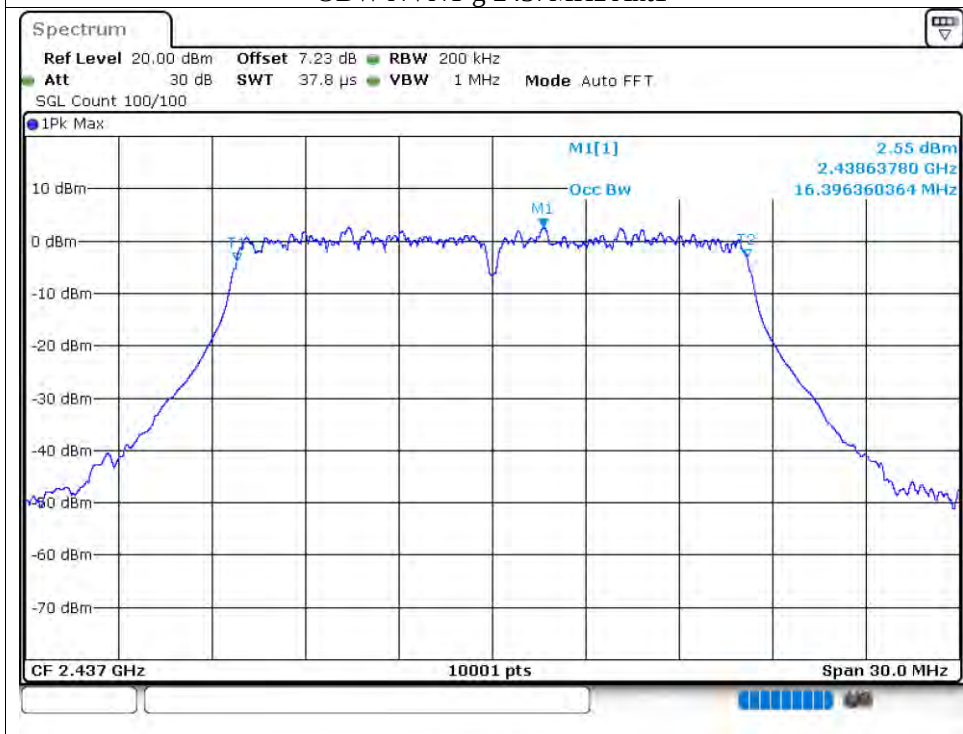
OBW NVNT b 2462MHz Ant2



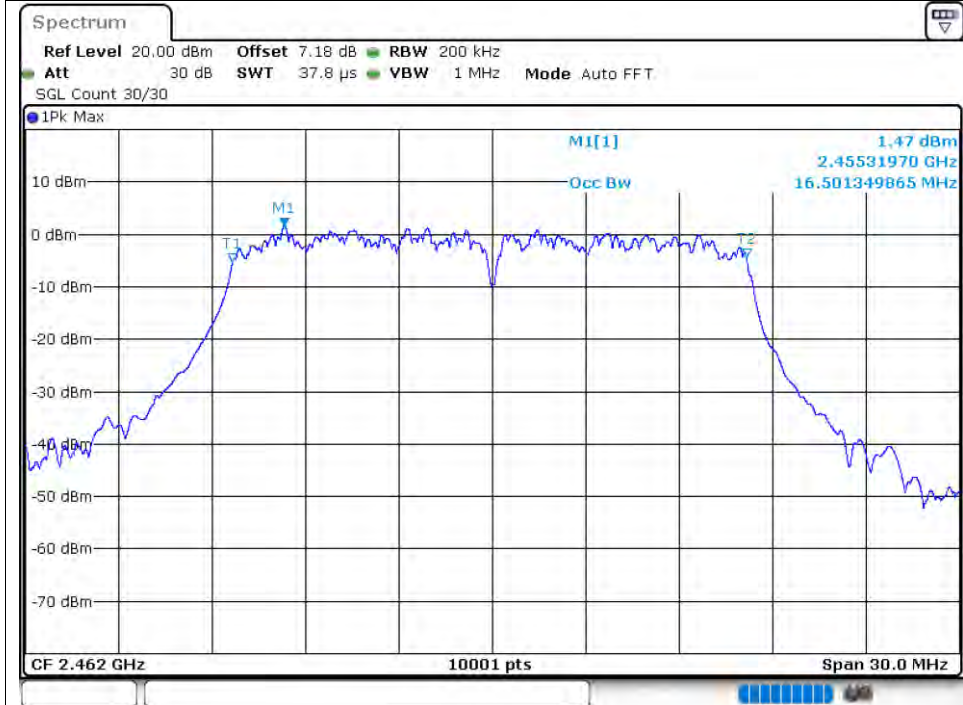
OBW NVNT g 2412MHz Ant1



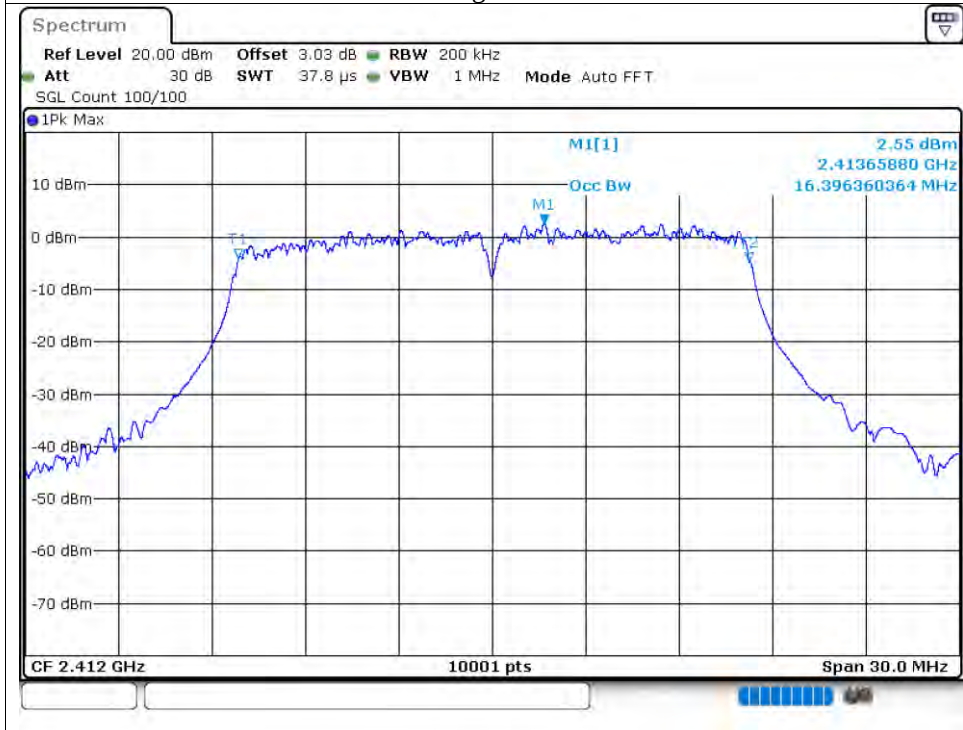
OBW NVNT g 2437MHz Ant1



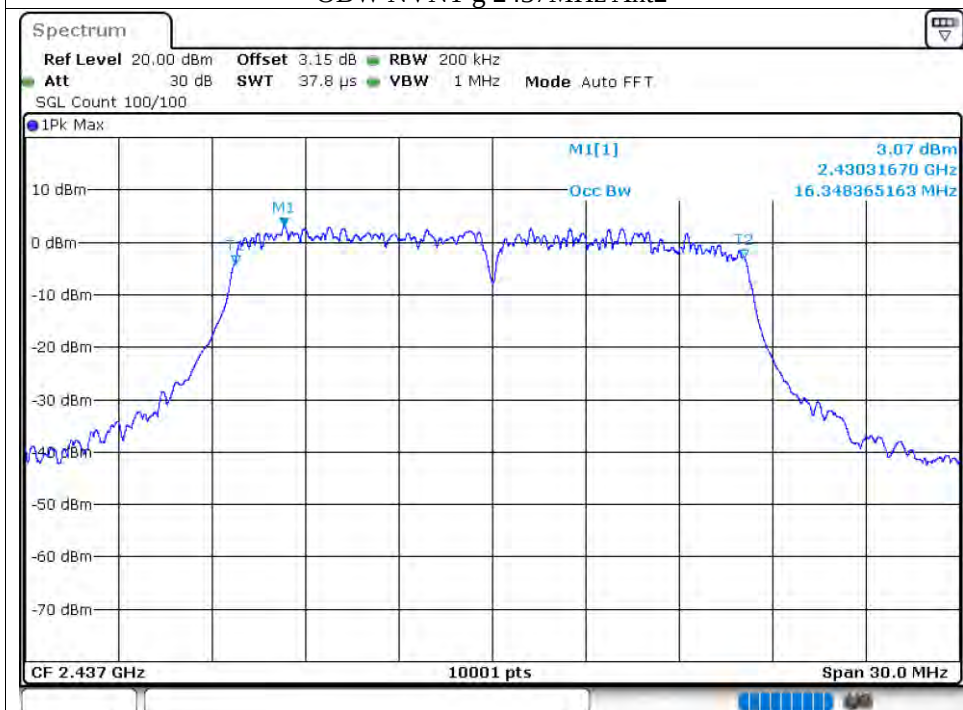
OBW NVNT g 2462MHz Ant1



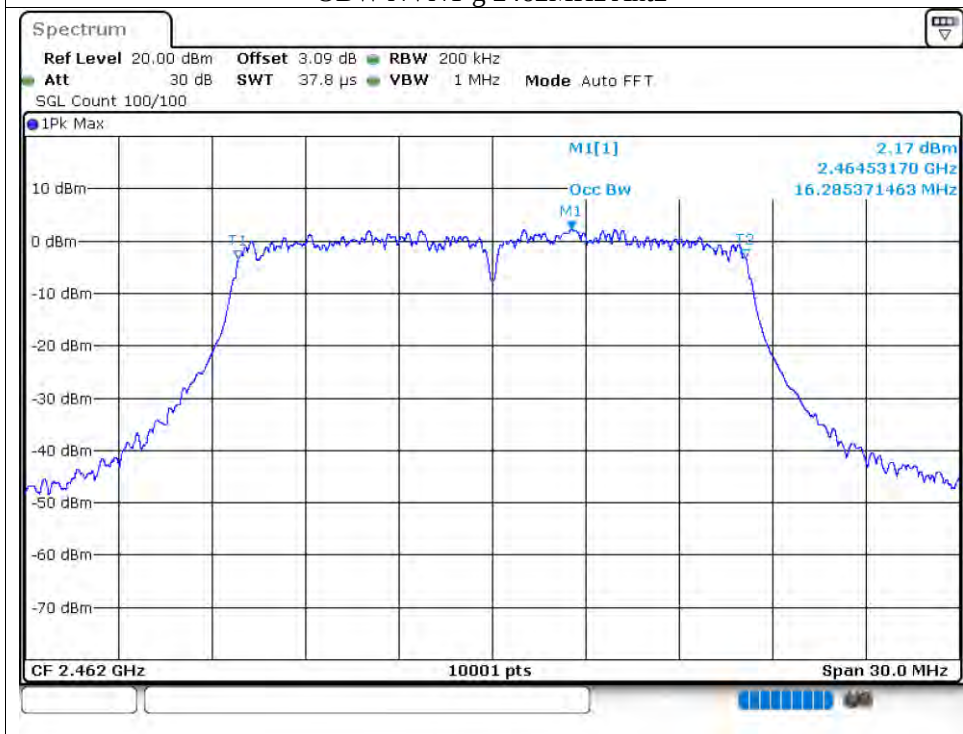
OBW NVNT g 2412MHz Ant2



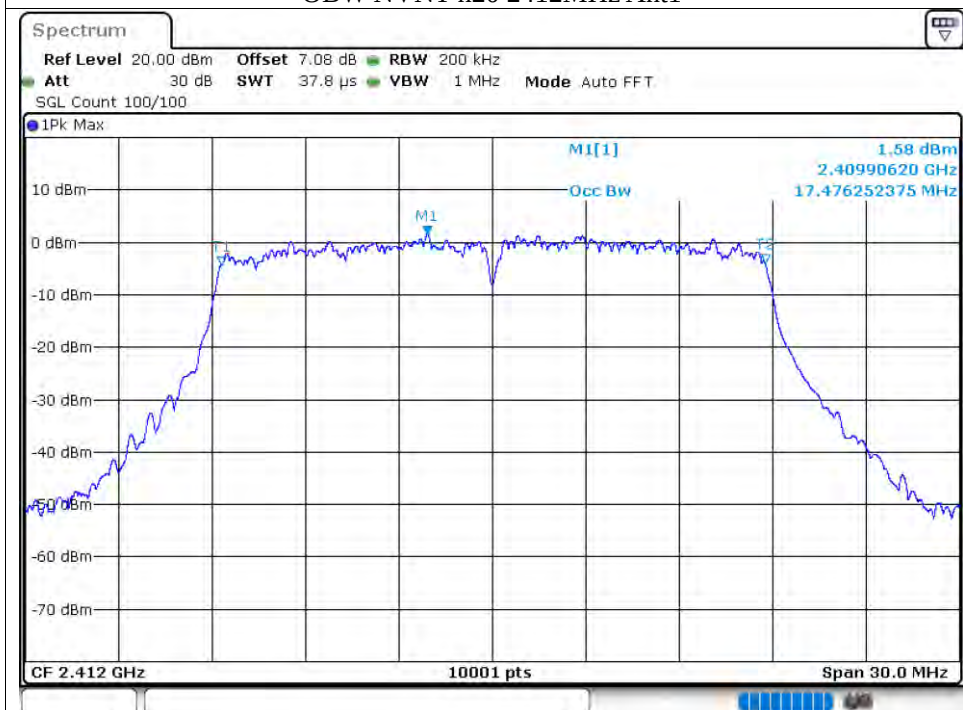
OBW NVNT g 2437MHz Ant2



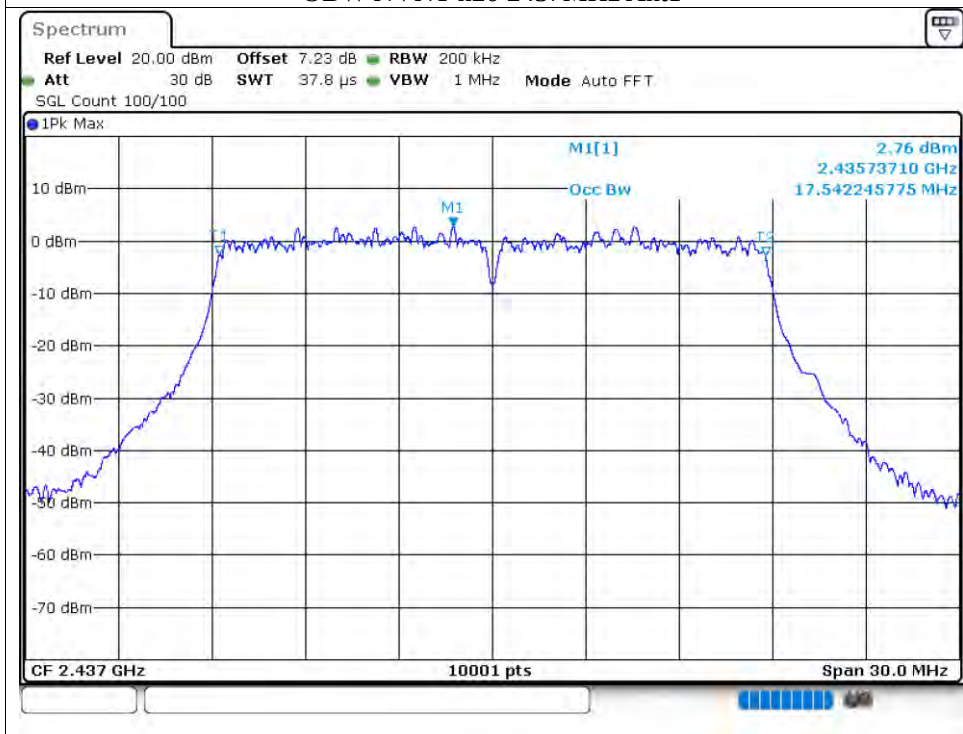
OBW NVNT g 2462MHz Ant2



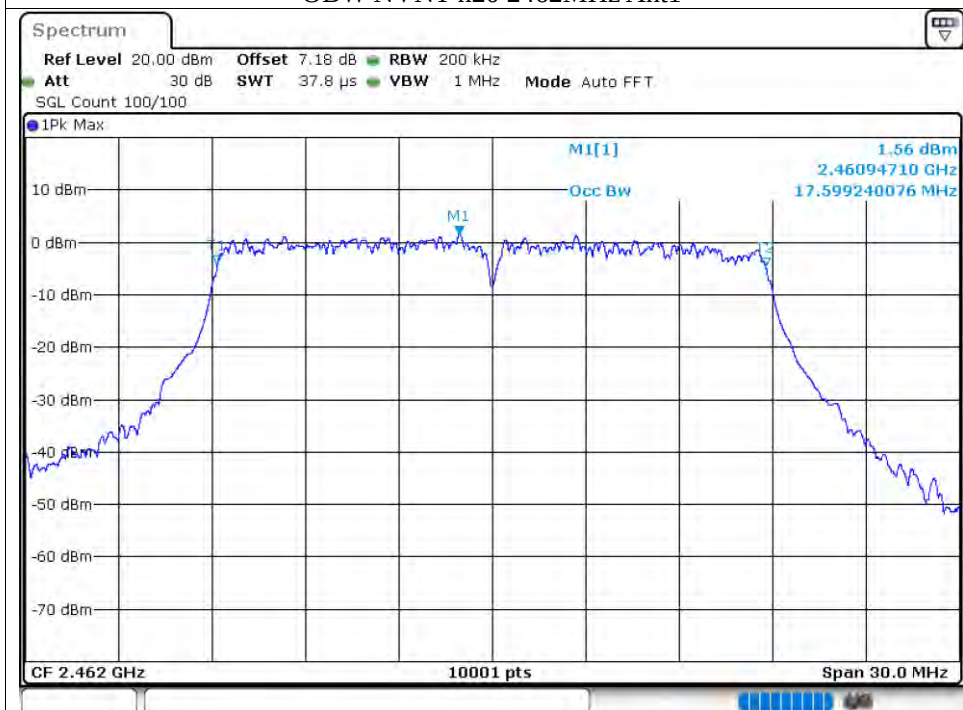
OBW NVNT n20 2412MHz Ant1



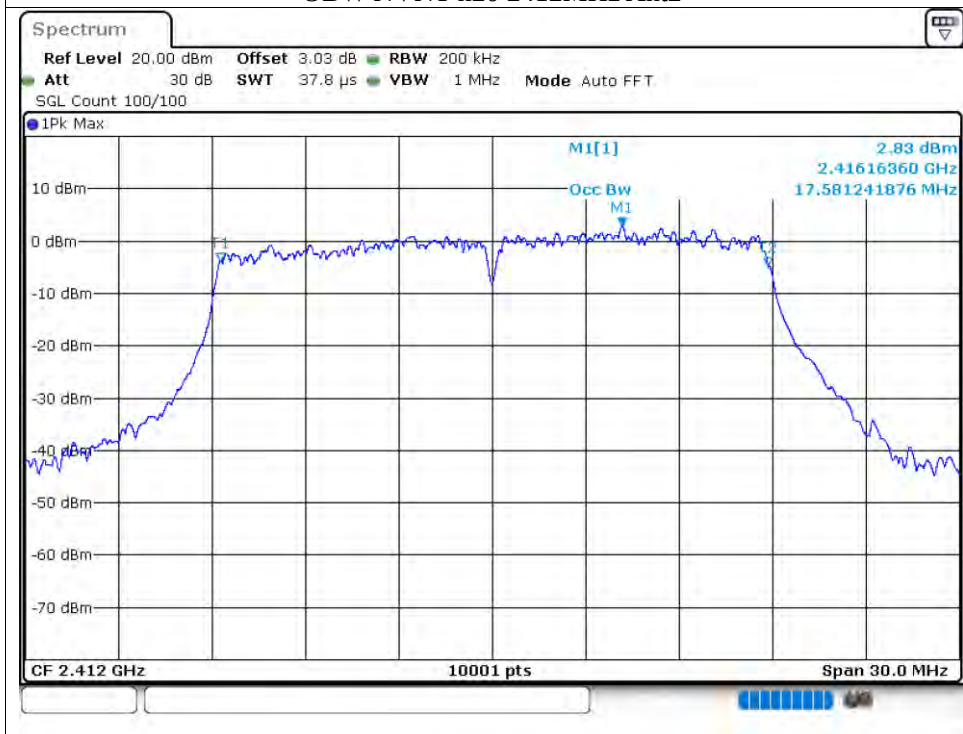
OBW NVNT n20 2437MHz Ant1



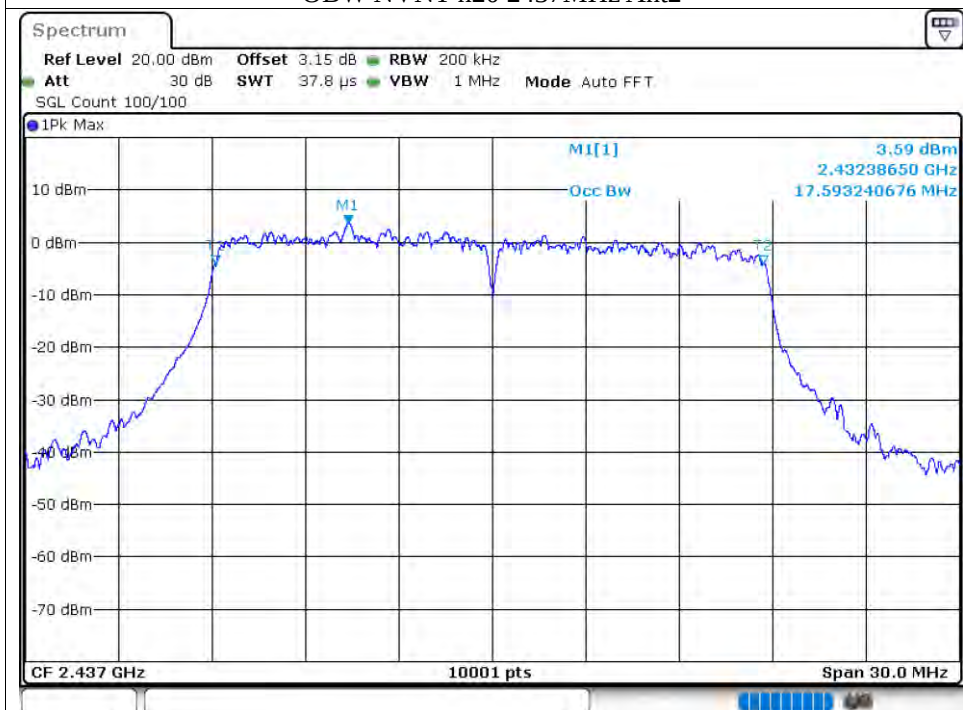
OBW NVNT n20 2462MHz Ant1



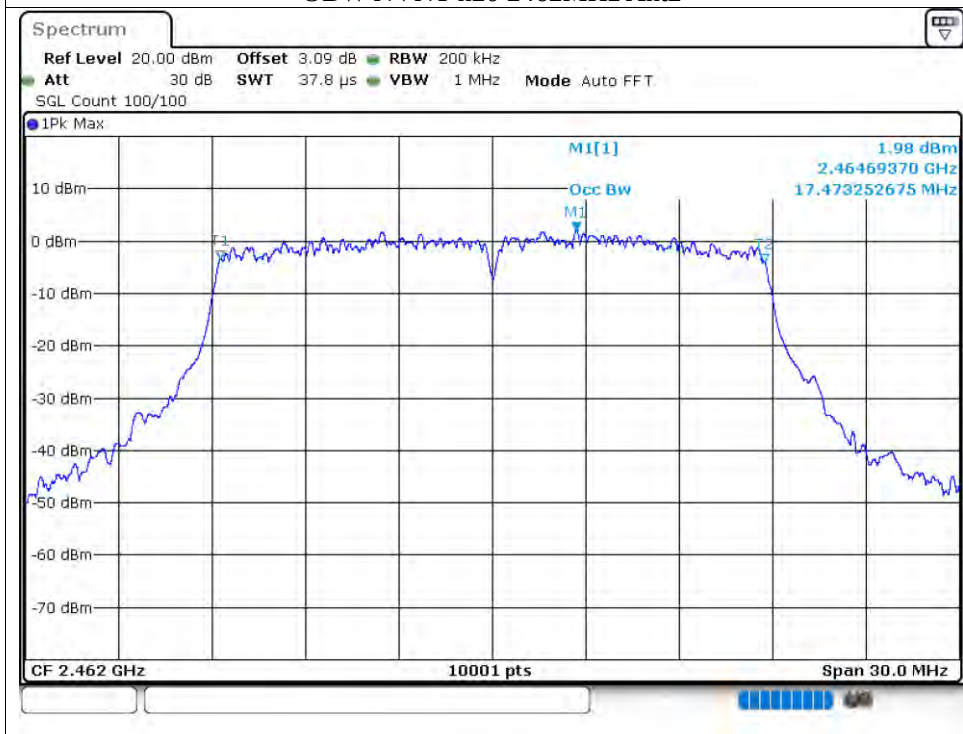
OBW NVNT n20 2412MHz Ant2



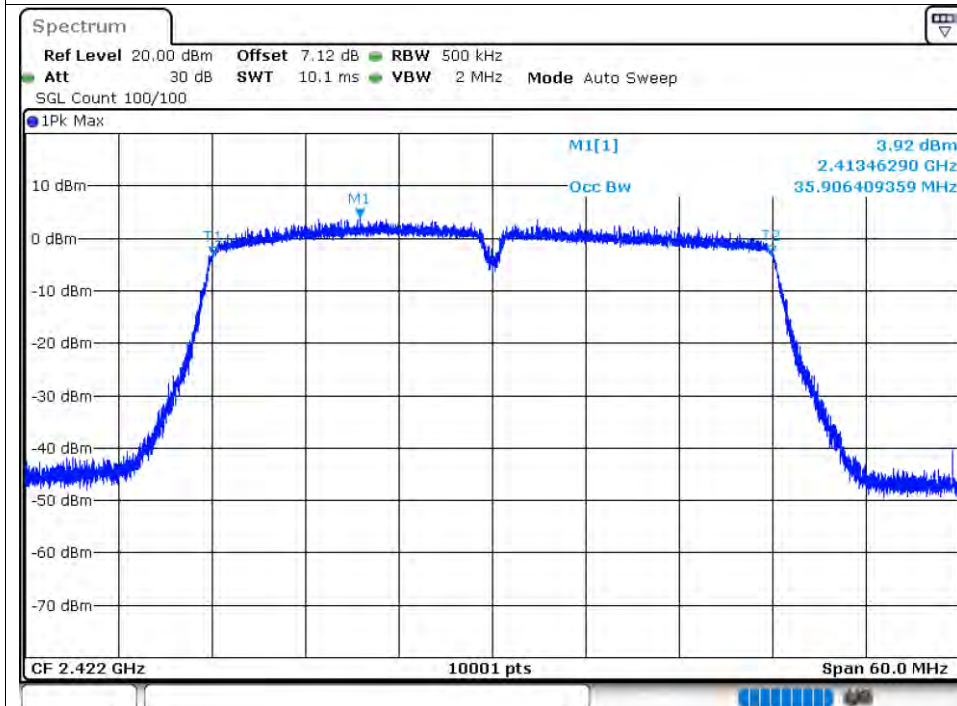
OBW NVNT n20 2437MHz Ant2



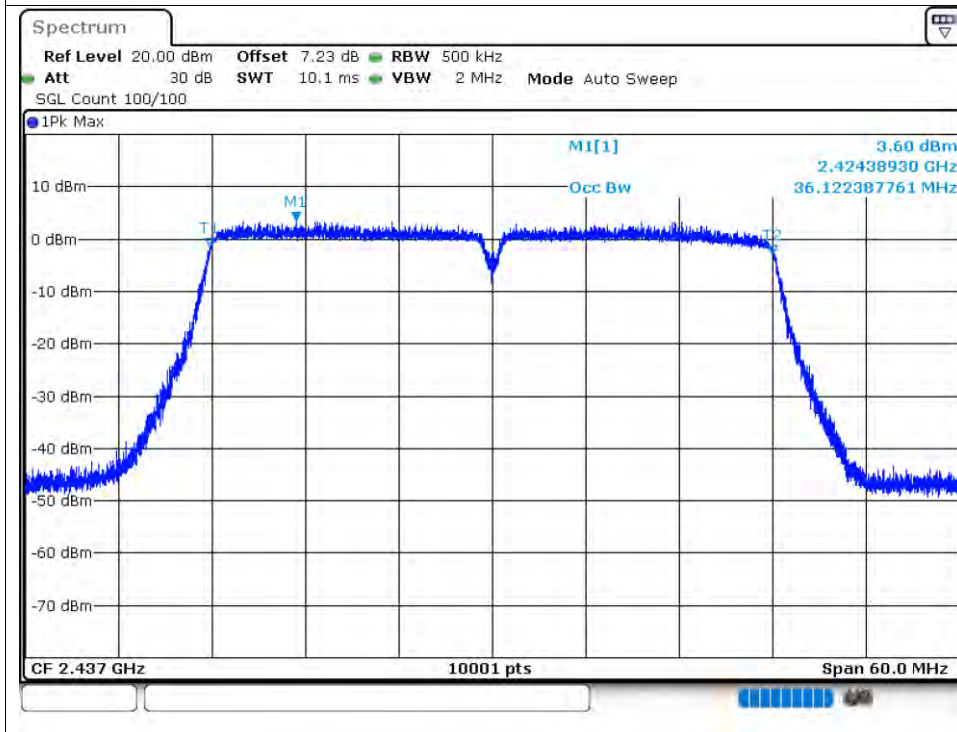
OBW NVNT n20 2462MHz Ant2



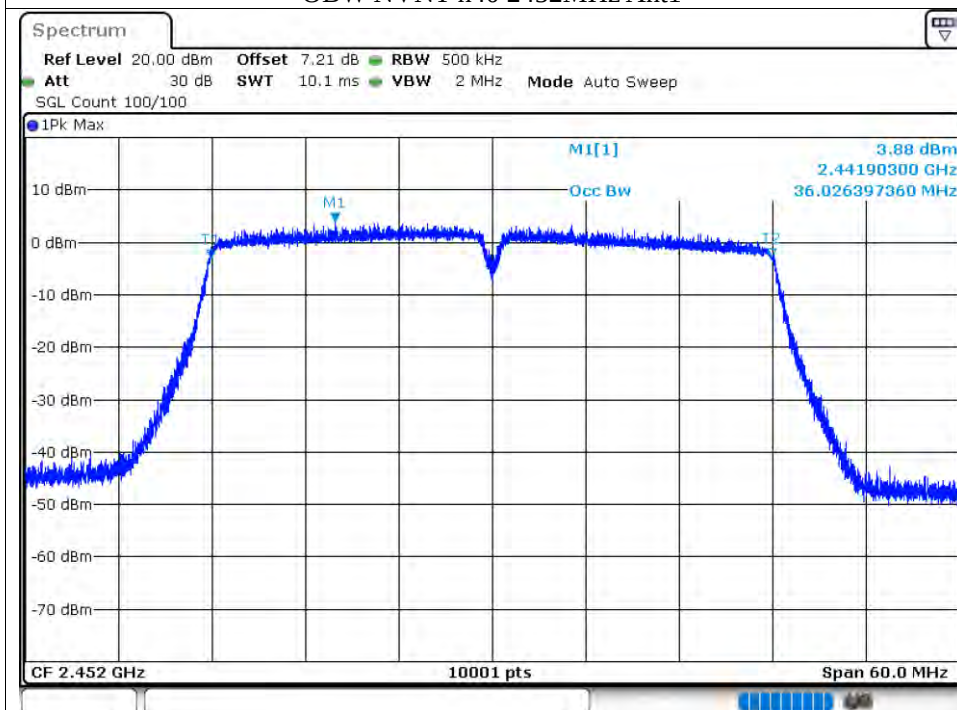
OBW NVNT n40 2422MHz Ant1



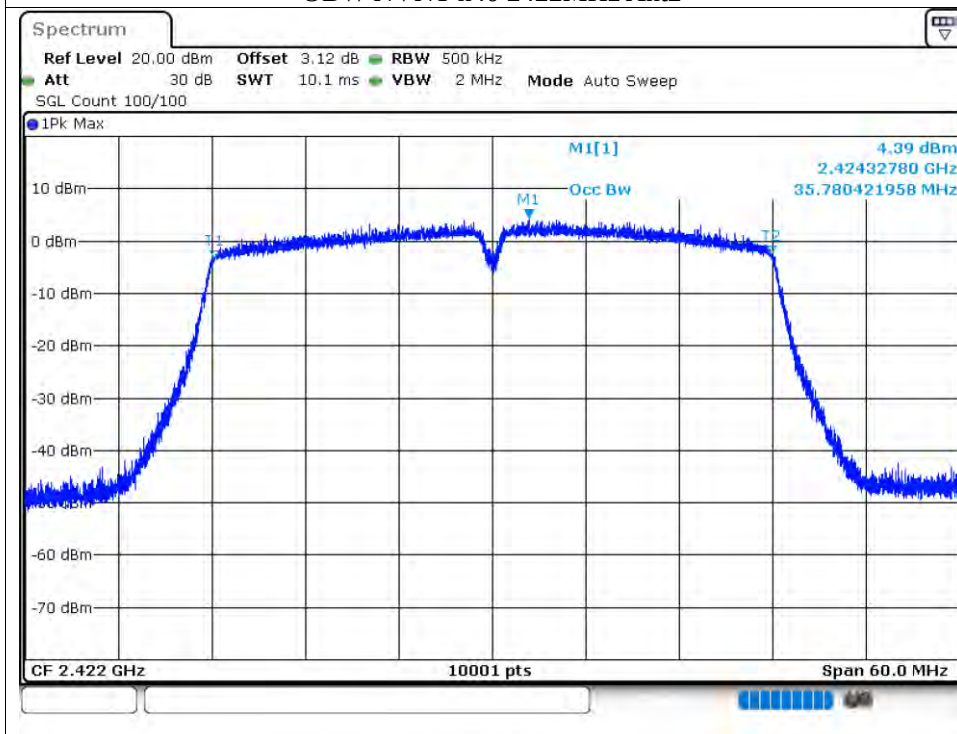
OBW NVNT n40 2437MHz Ant1



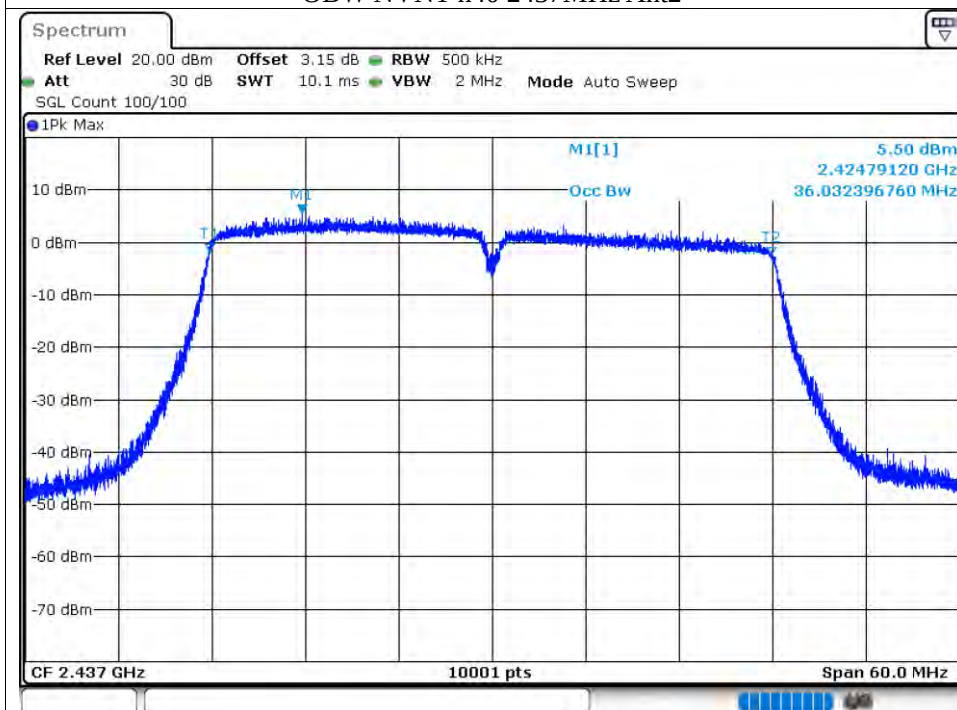
OBW NVNT n40 2452MHz Ant1



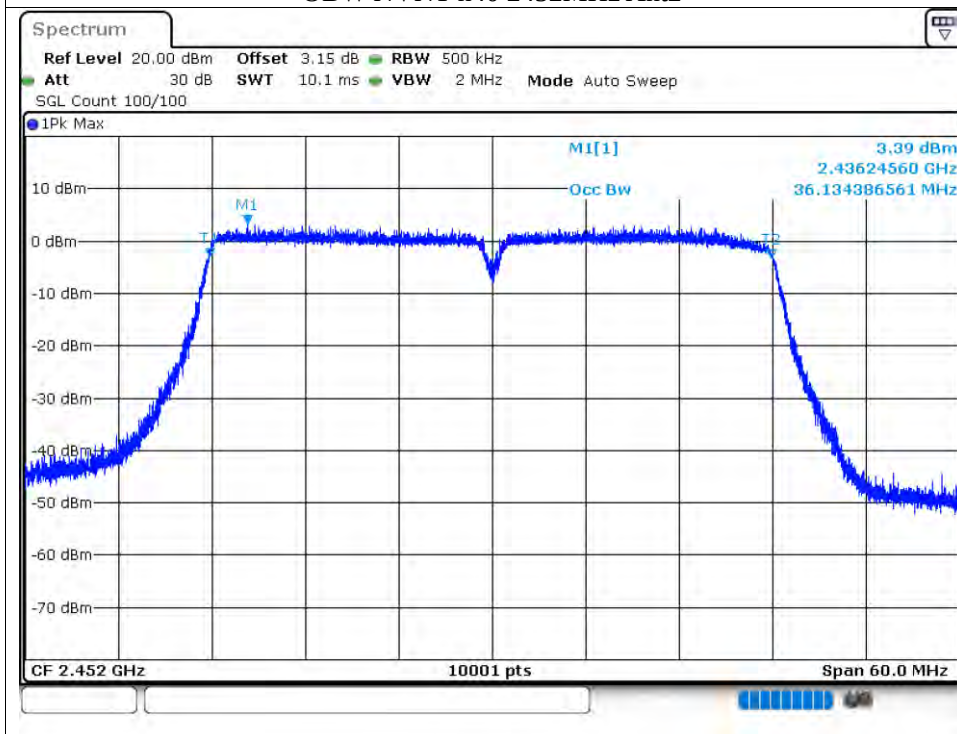
OBW NVNT n40 2422MHz Ant2



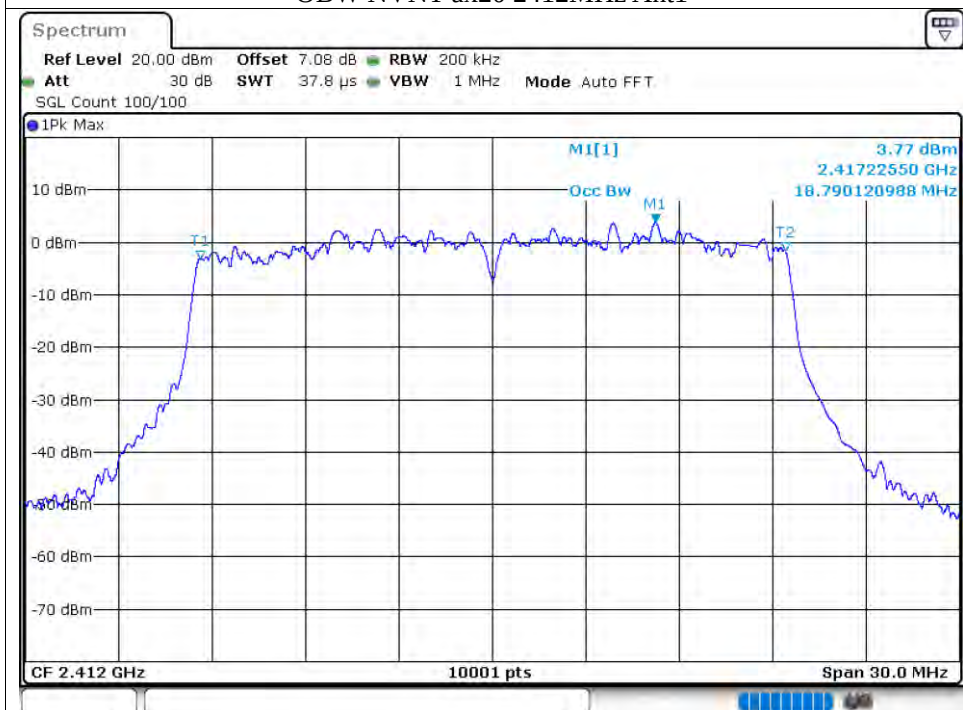
OBW NVNT n40 2437MHz Ant2



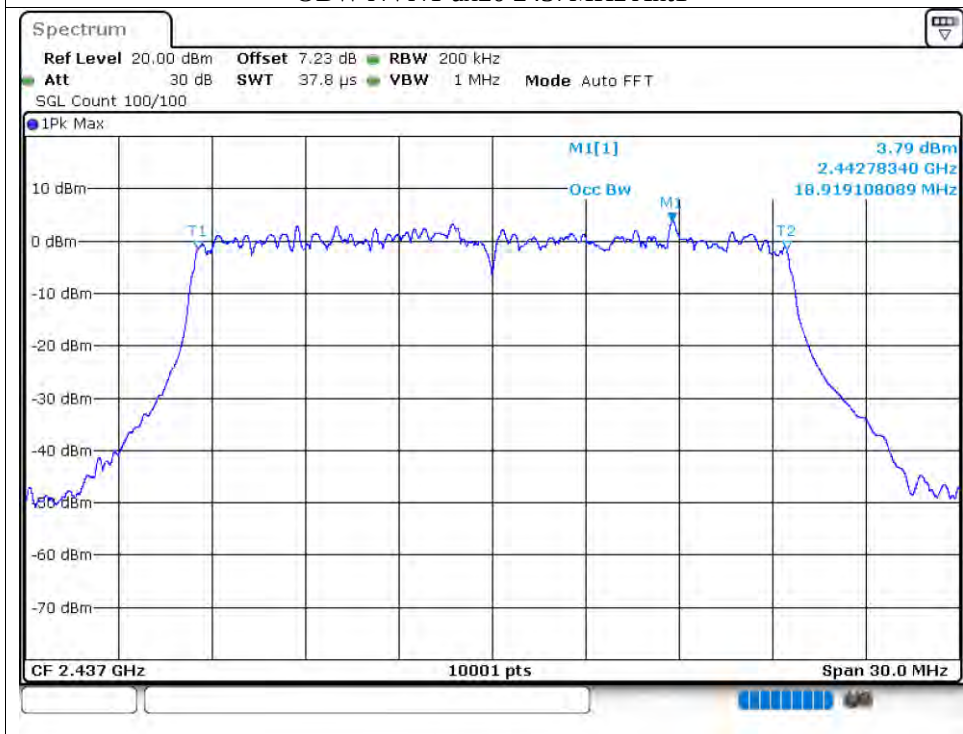
OBW NVNT n40 2452MHz Ant2



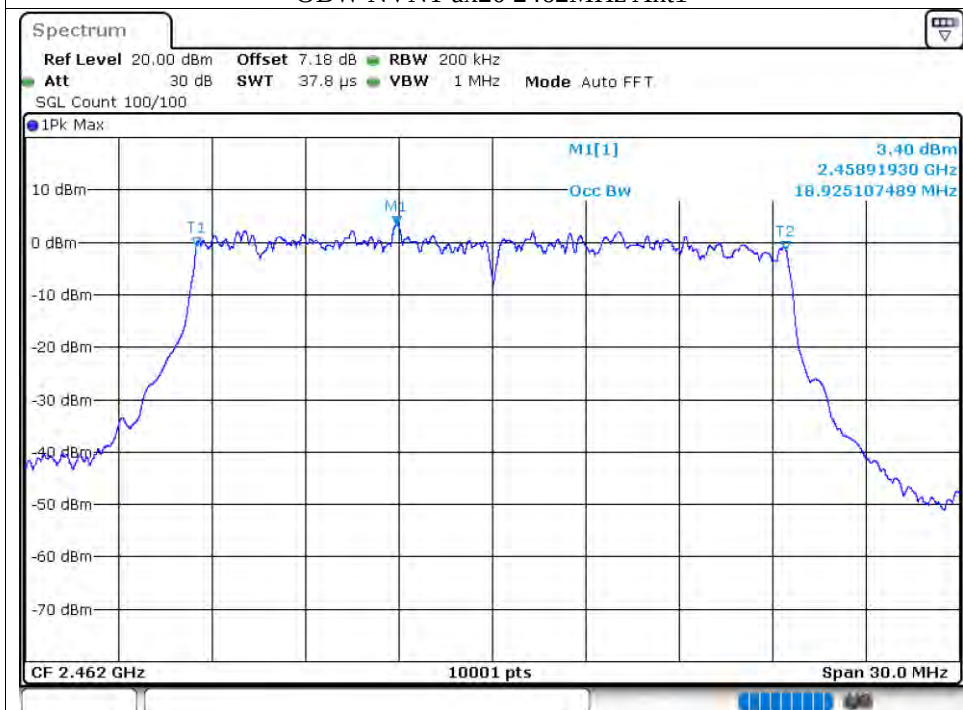
OBW NVNT ax20 2412MHz Ant1



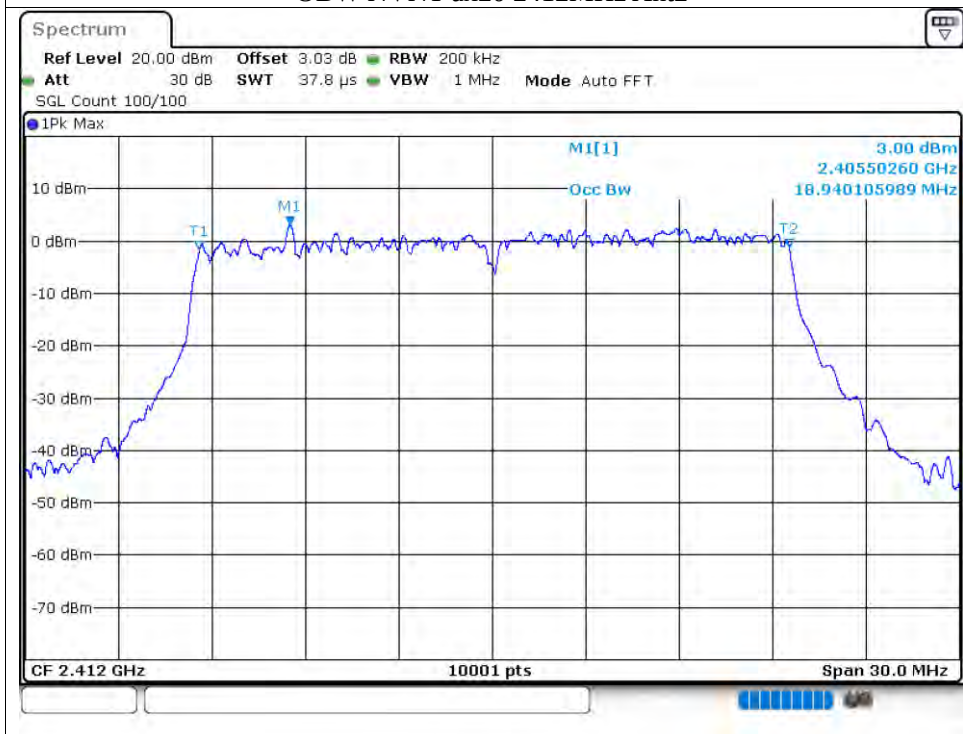
OBW NVNT ax20 2437MHz Ant1



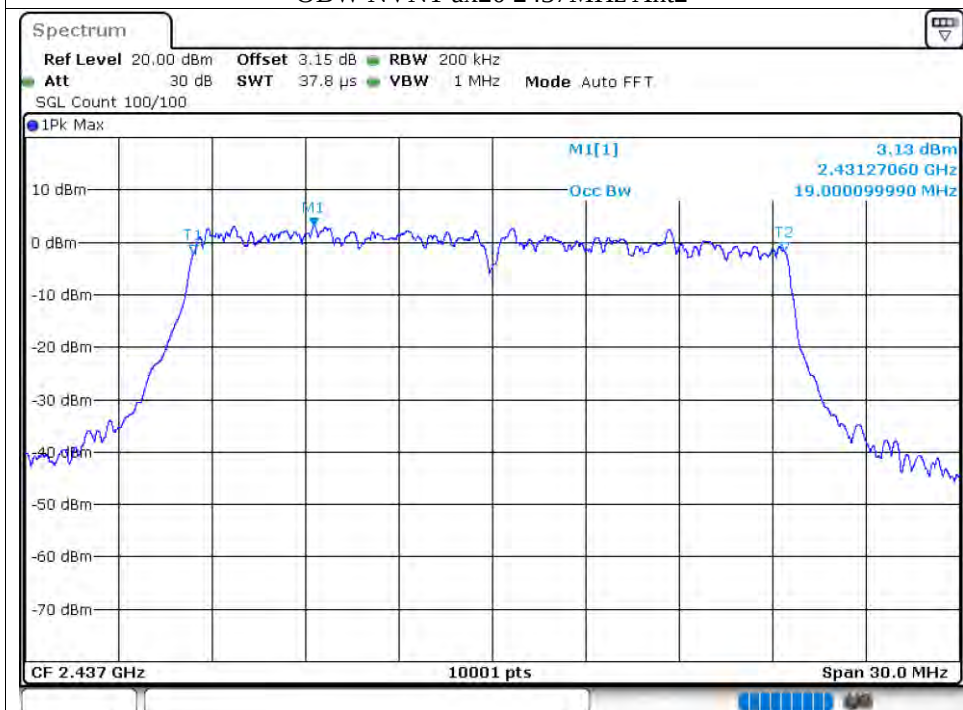
OBW NVNT ax20 2462MHz Ant1



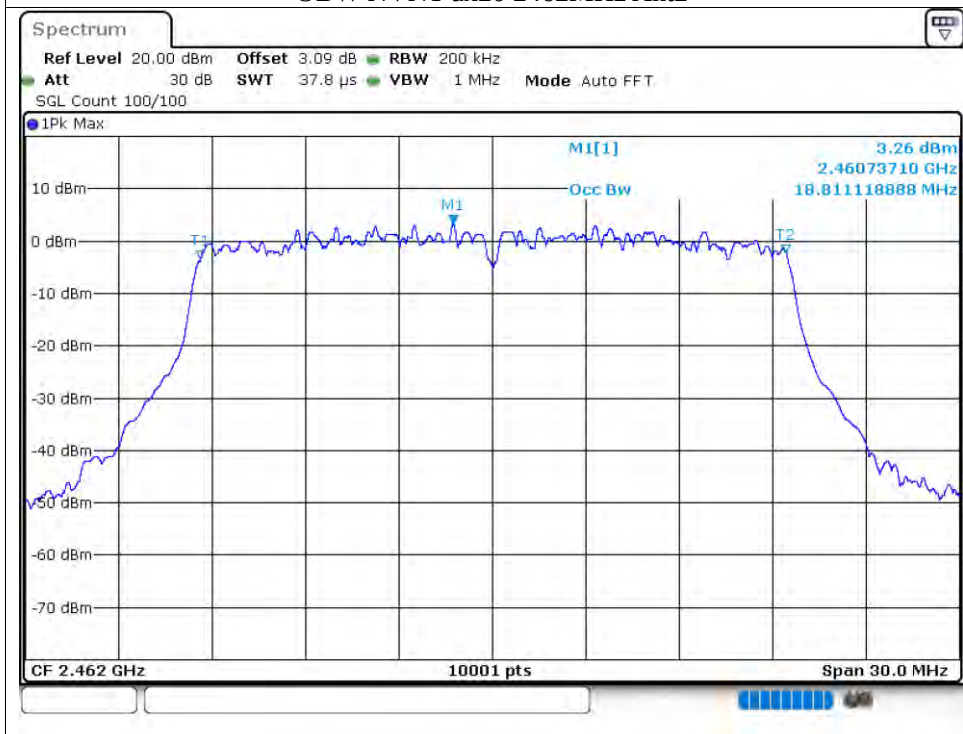
OBW NVNT ax20 2412MHz Ant2



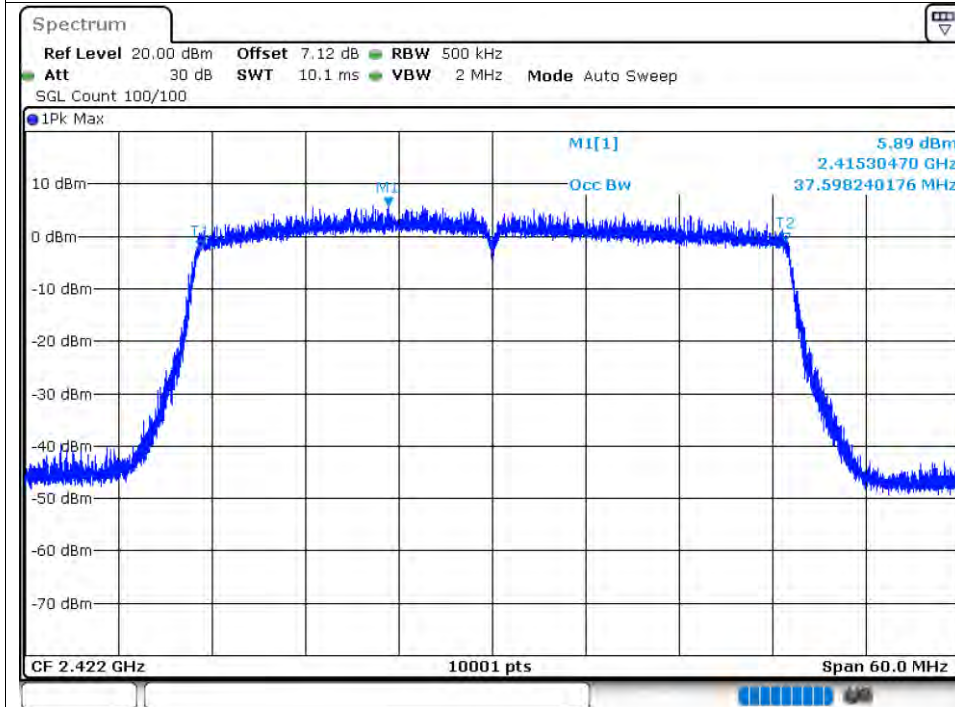
OBW NVNT ax20 2437MHz Ant2



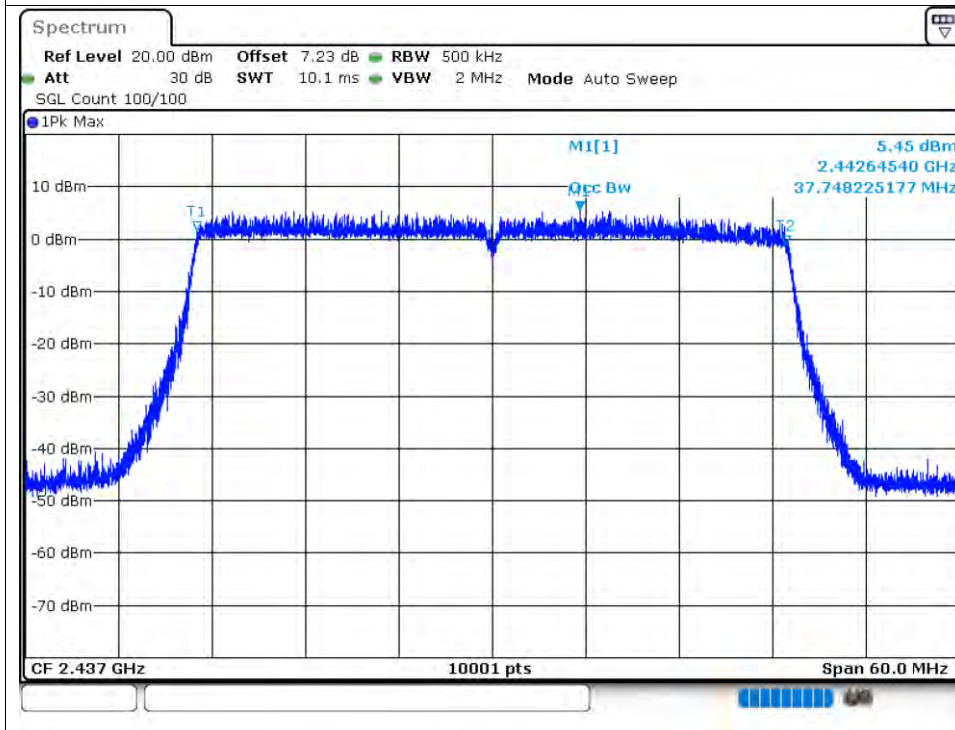
OBW NVNT ax20 2462MHz Ant2



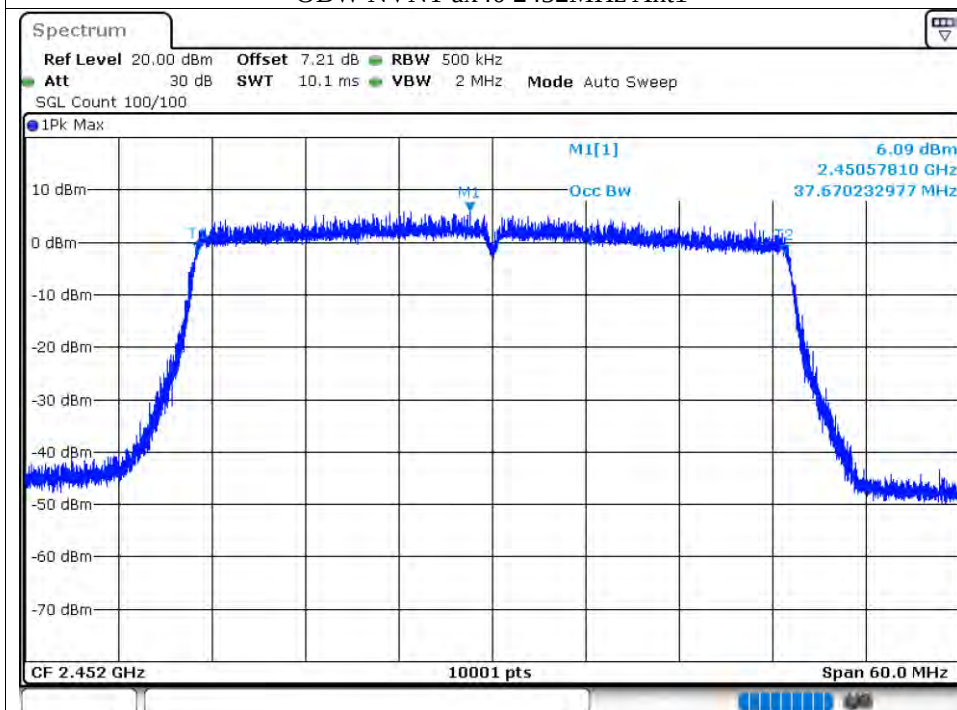
OBW NVNT ax40 2422MHz Ant1



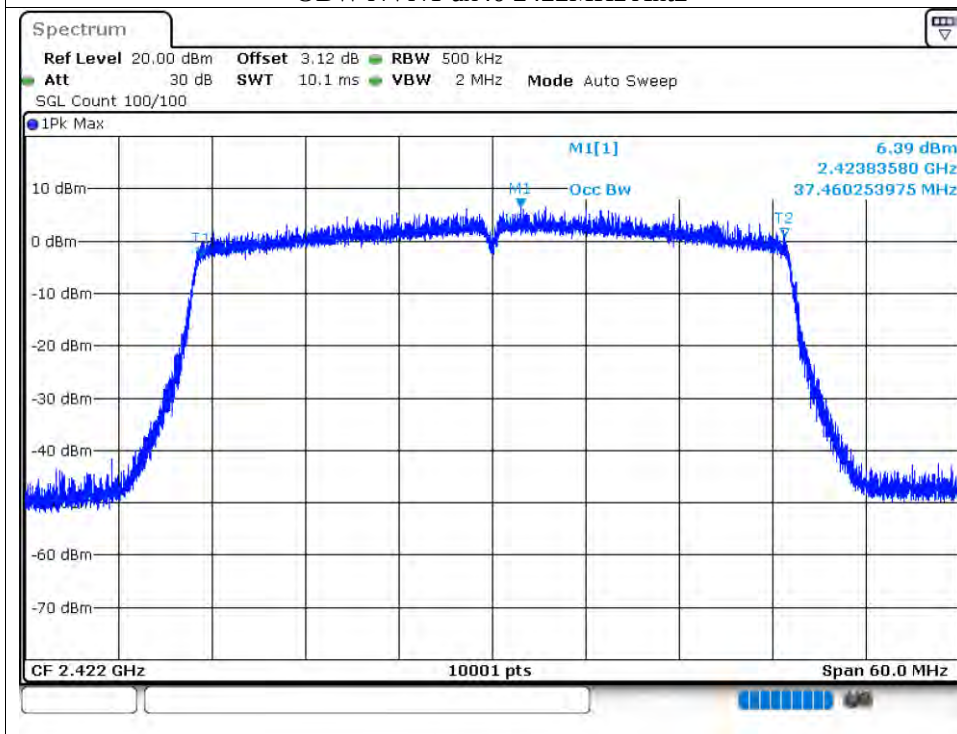
OBW NVNT ax40 2437MHz Ant1



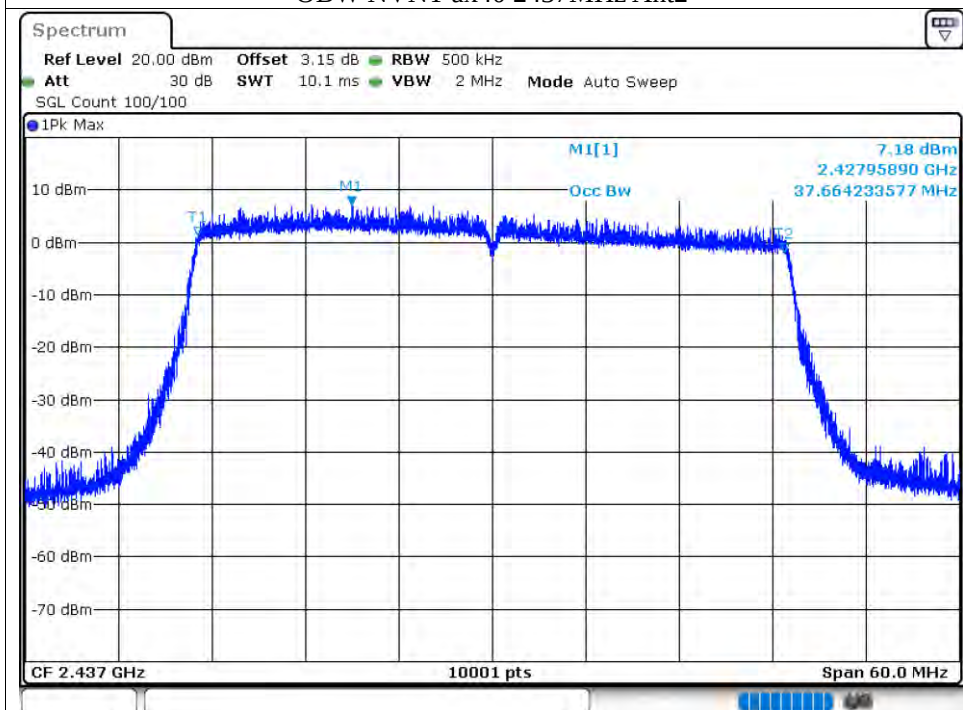
OBW NVNT ax40 2452MHz Ant1



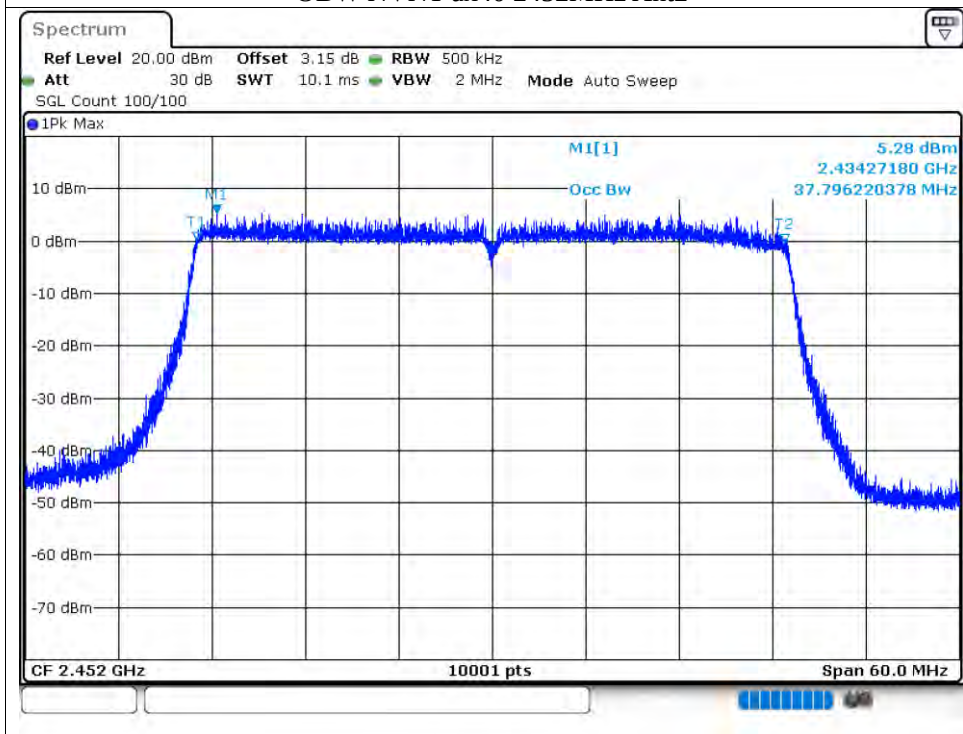
OBW NVNT ax40 2422MHz Ant2



OBW NVNT ax40 2437MHz Ant2



OBW NVNT ax40 2452MHz Ant2

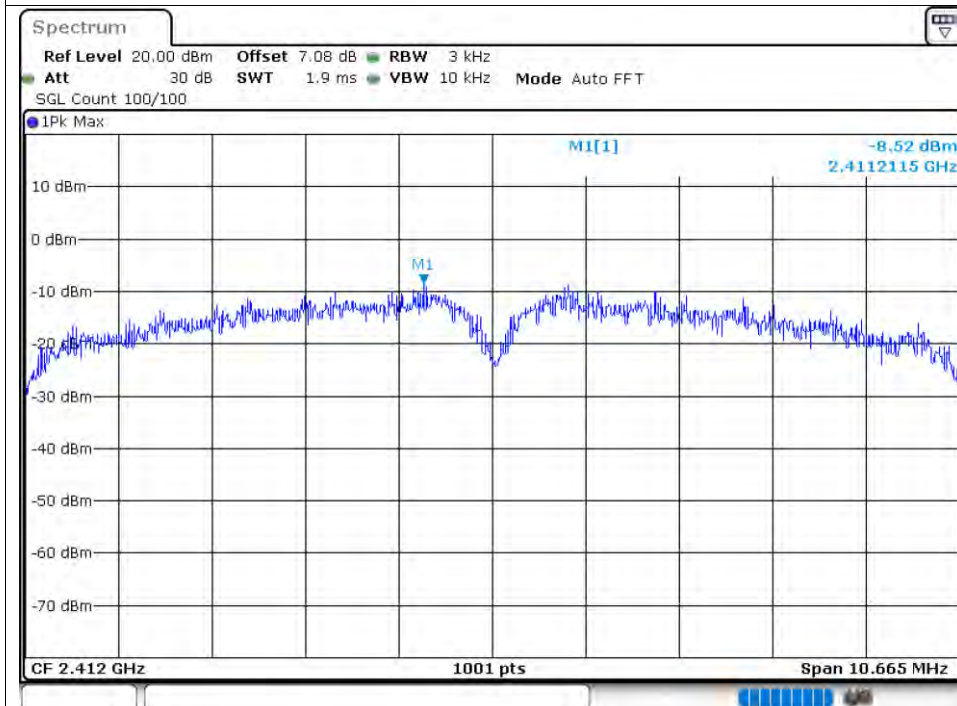


8.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

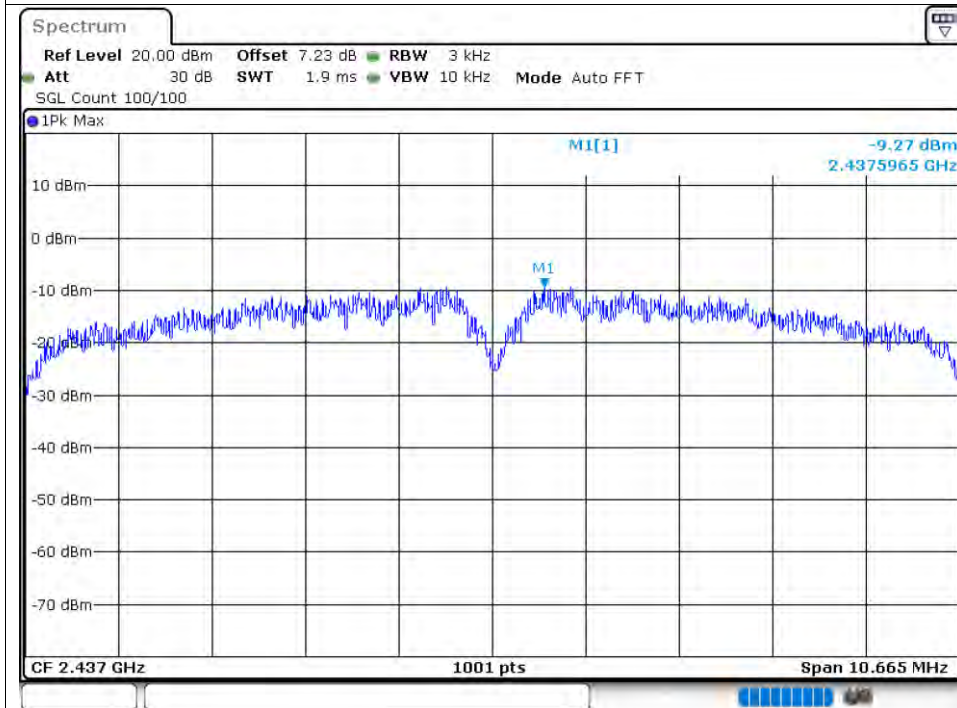
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-8.52	-	8	Pass
NVNT	b	2437	Ant1	-9.27	-	8	Pass
NVNT	b	2462	Ant1	-9.17	-	8	Pass
NVNT	b	2412	Ant2	-6.79	-	8	Pass
NVNT	b	2437	Ant2	-8.73	-	8	Pass
NVNT	b	2462	Ant2	-7.66	-	8	Pass
NVNT	g	2412	Ant1	-13.22	-	8	Pass
NVNT	g	2437	Ant1	-12.02	-	8	Pass
NVNT	g	2462	Ant1	-13.7	-	8	Pass
NVNT	g	2412	Ant2	-12.18	-	8	Pass
NVNT	g	2437	Ant2	-13.27	-	8	Pass
NVNT	g	2462	Ant2	-11.55	-	8	Pass
NVNT	n20	2412	Ant1	-12.42	-8.54	8	Pass
NVNT	n20	2412	Ant2	-10.99			
NVNT	n20	2437	Ant1	-12.78	-8.86	8	Pass
NVNT	n20	2437	Ant2	-10.92			
NVNT	n20	2462	Ant1	-12	-9.21	8	Pass
NVNT	n20	2462	Ant2	-12.11			
NVNT	n40	2422	Ant1	-16.09	-13.01	8	Pass
NVNT	n40	2422	Ant2	-15.22			
NVNT	n40	2437	Ant1	-16.04	-12.22	8	Pass
NVNT	n40	2437	Ant2	-14.35			
NVNT	n40	2452	Ant1	-15.52	-11.55	8	Pass
NVNT	n40	2452	Ant2	-14			
NVNT	ax20	2412	Ant1	-14.11	-10.46	8	Pass
NVNT	ax20	2412	Ant2	-12.75			
NVNT	ax20	2437	Ant1	-13.45	-10.00	8	Pass
NVNT	ax20	2437	Ant2	-12.78			
NVNT	ax20	2462	Ant1	-13.64	-10.00	8	Pass
NVNT	ax20	2462	Ant2	-12.44			
NVNT	ax40	2422	Ant1	-16.13	-13.98	8	Pass
NVNT	ax40	2422	Ant2	-16.43			
NVNT	ax40	2437	Ant1	-16.26	-13.01	8	Pass
NVNT	ax40	2437	Ant2	-15.73			
NVNT	ax40	2452	Ant1	-16.78	-13.01	8	Pass
NVNT	ax40	2452	Ant2	-16.02			

Test Graphs

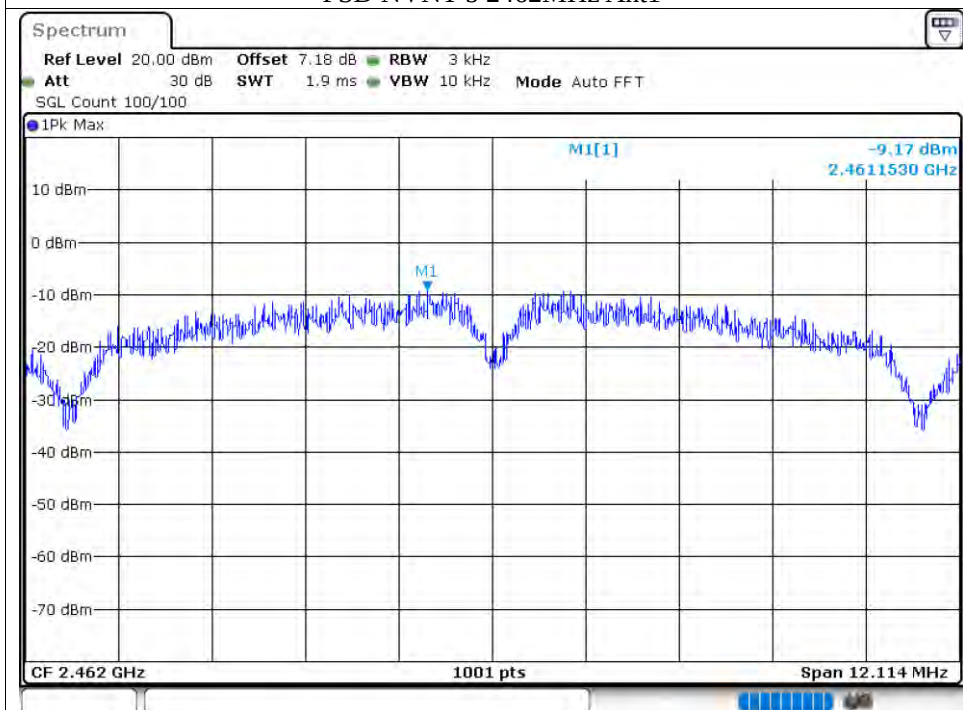
PSD NVNT b 2412MHz Ant1



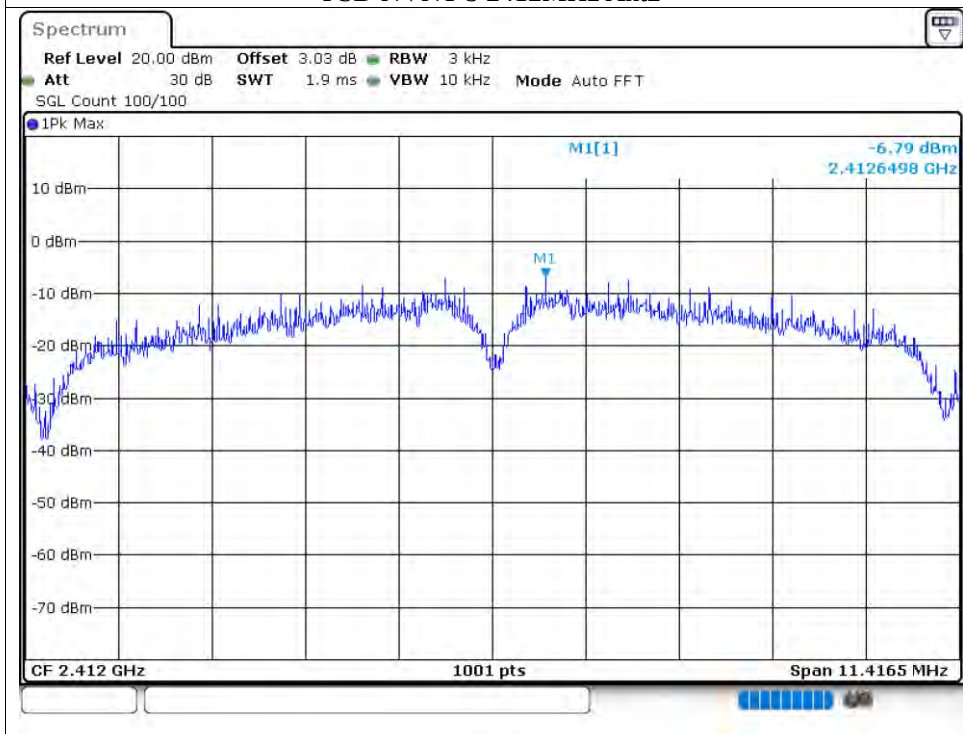
PSD NVNT b 2437MHz Ant1



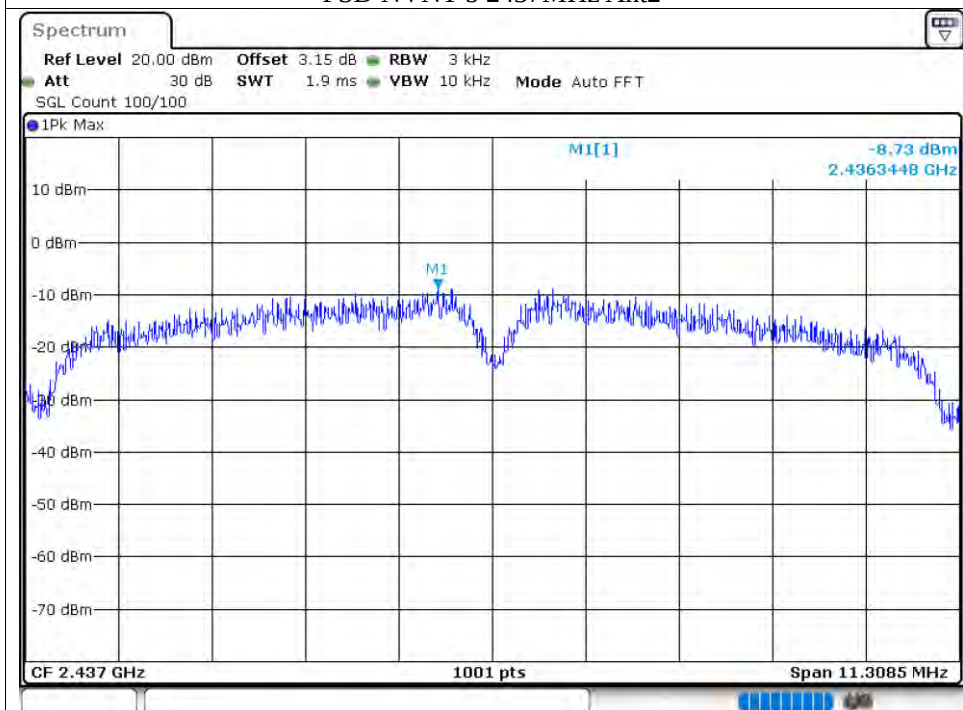
PSD NVNT b 2462MHz Ant1



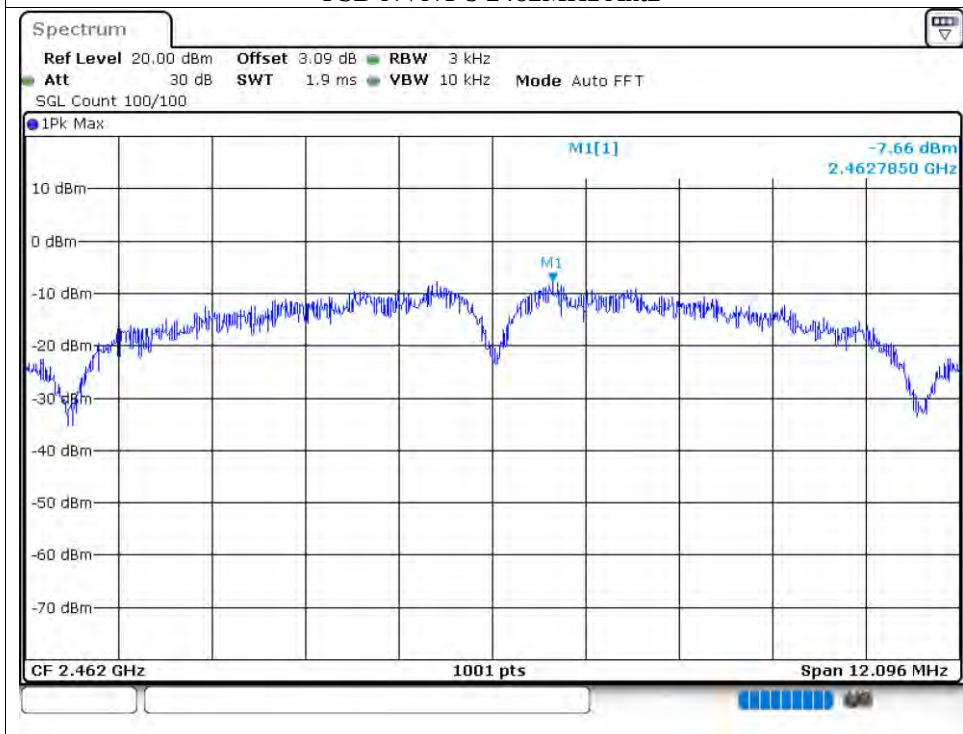
PSD NVNT b 2412MHz Ant2



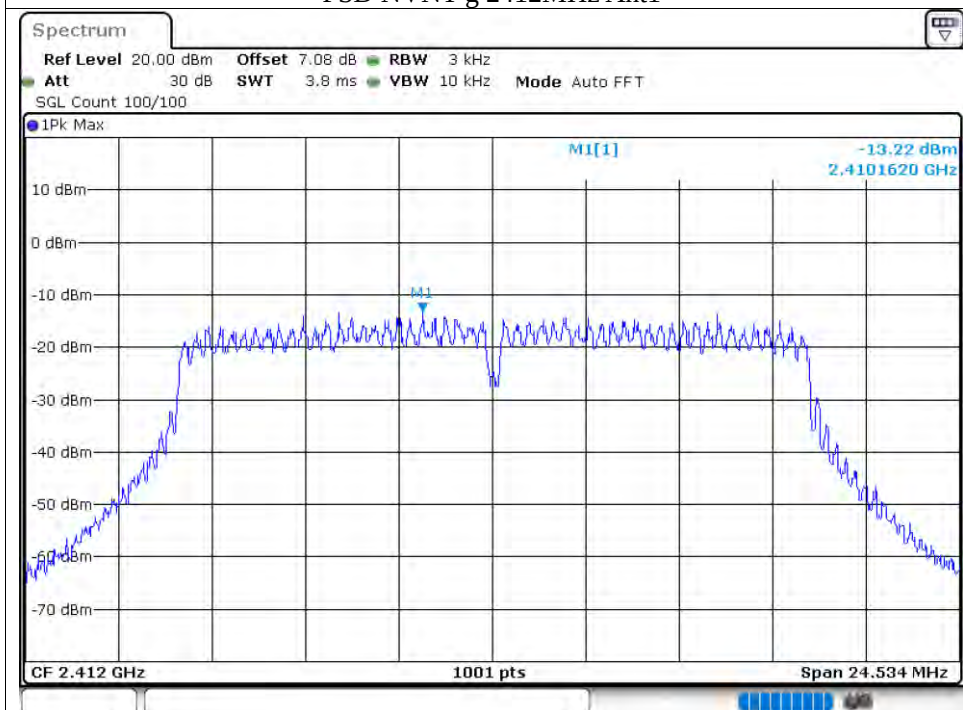
PSD NVNT b 2437MHz Ant2



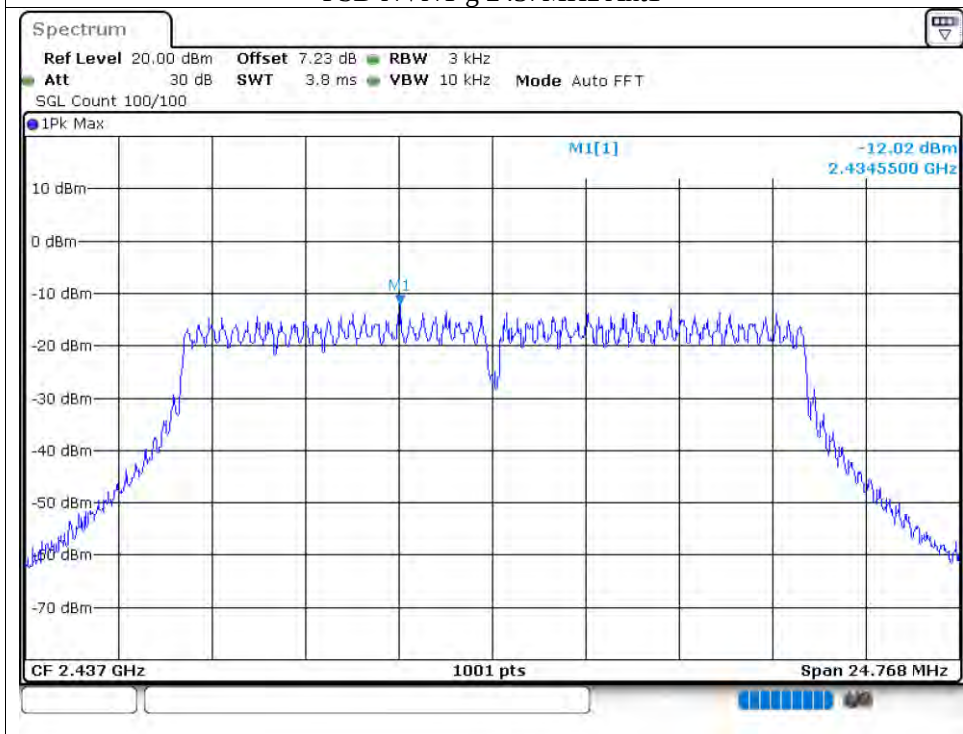
PSD NVNT b 2462MHz Ant2



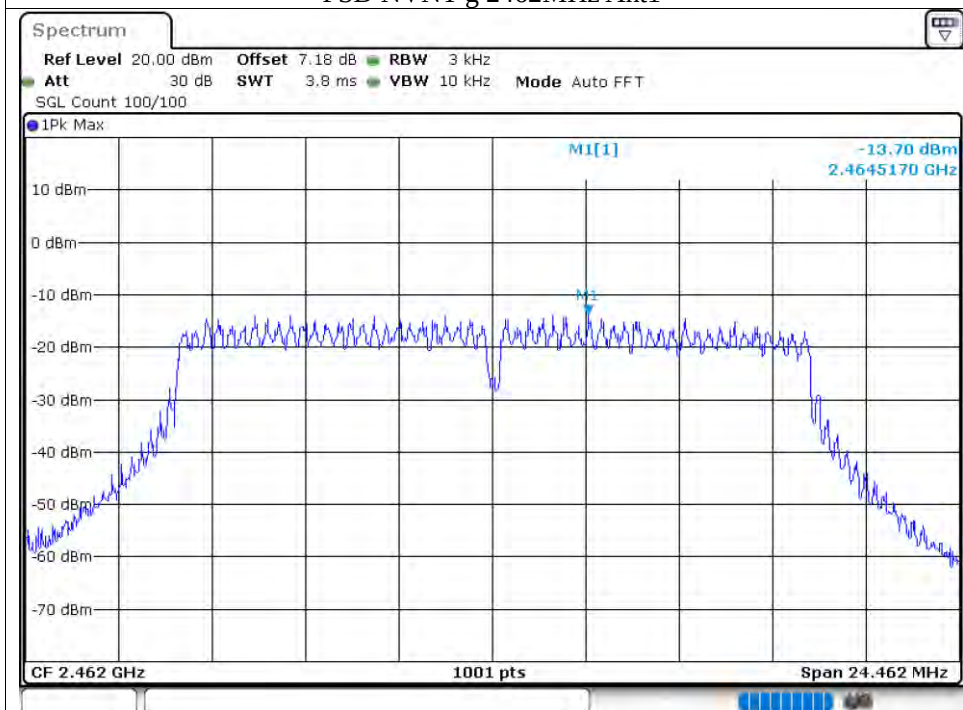
PSD NVNT g 2412MHz Ant1



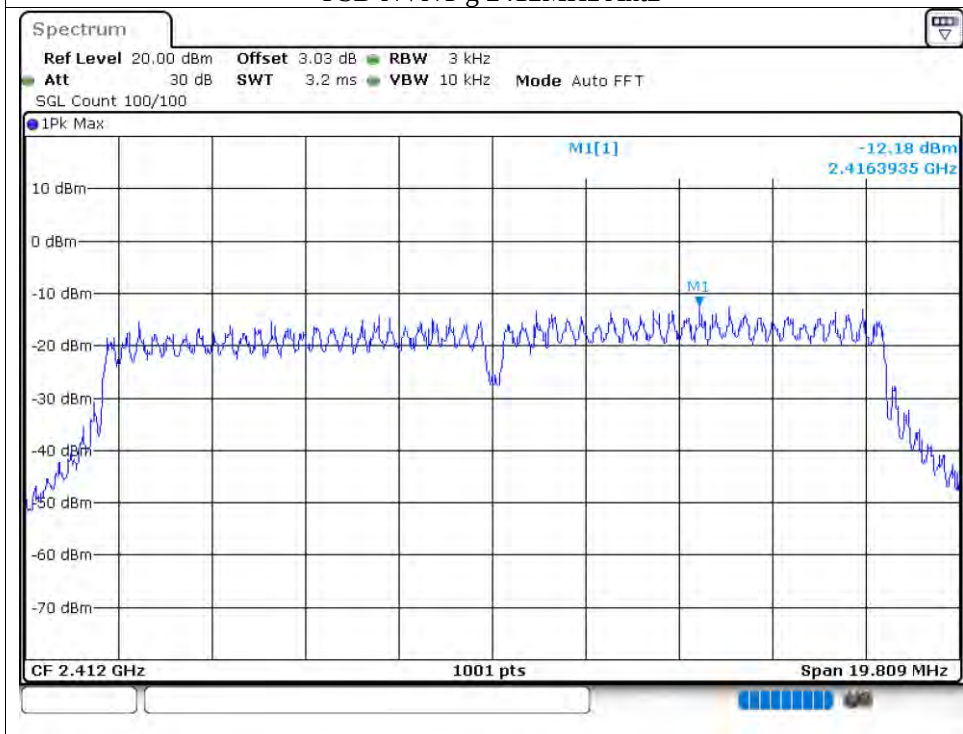
PSD NVNT g 2437MHz Ant1



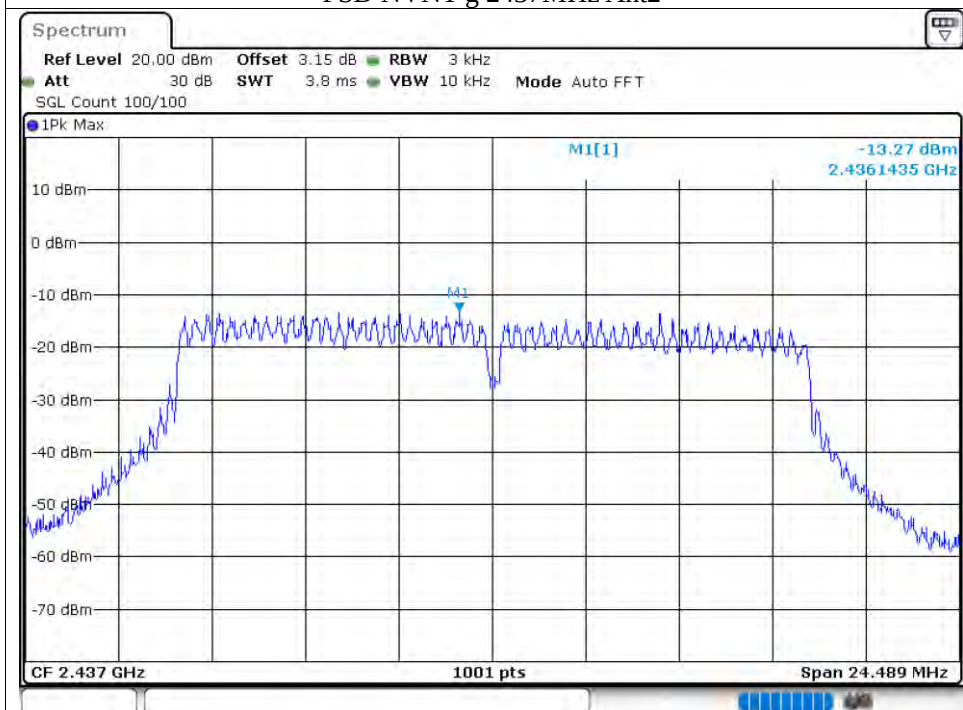
PSD NVNT g 2462MHz Ant1



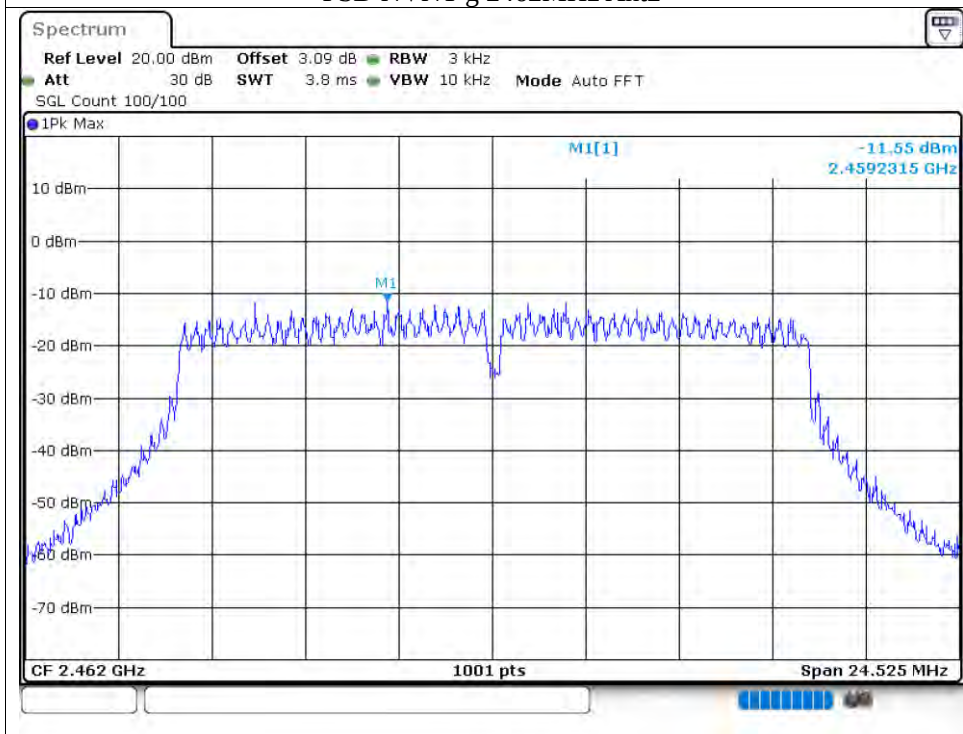
PSD NVNT g 2412MHz Ant2



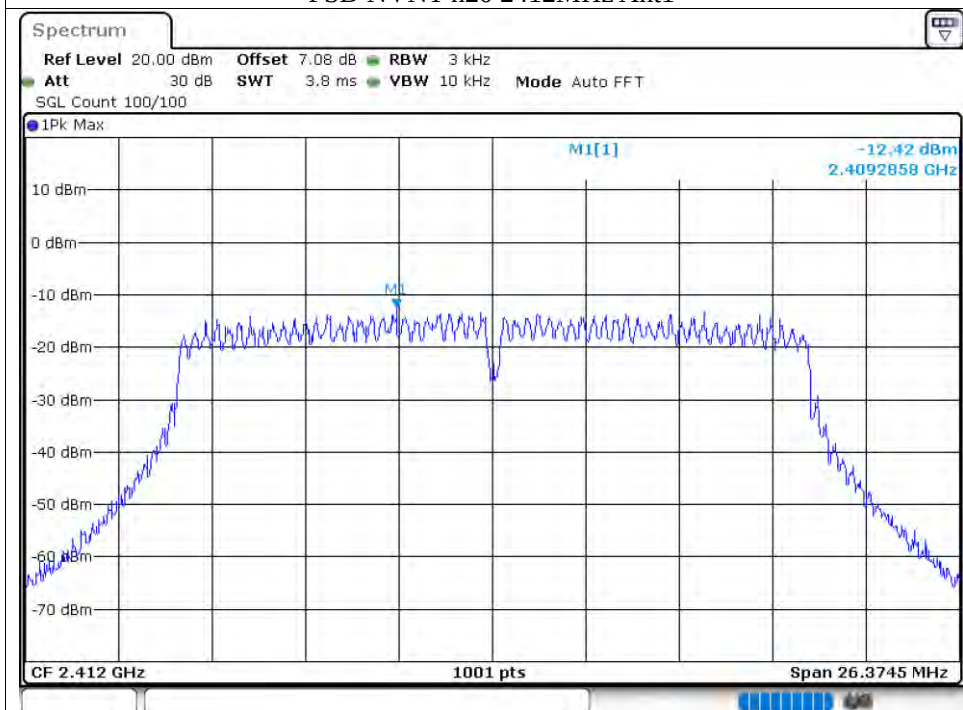
PSD NVNT g 2437MHz Ant2



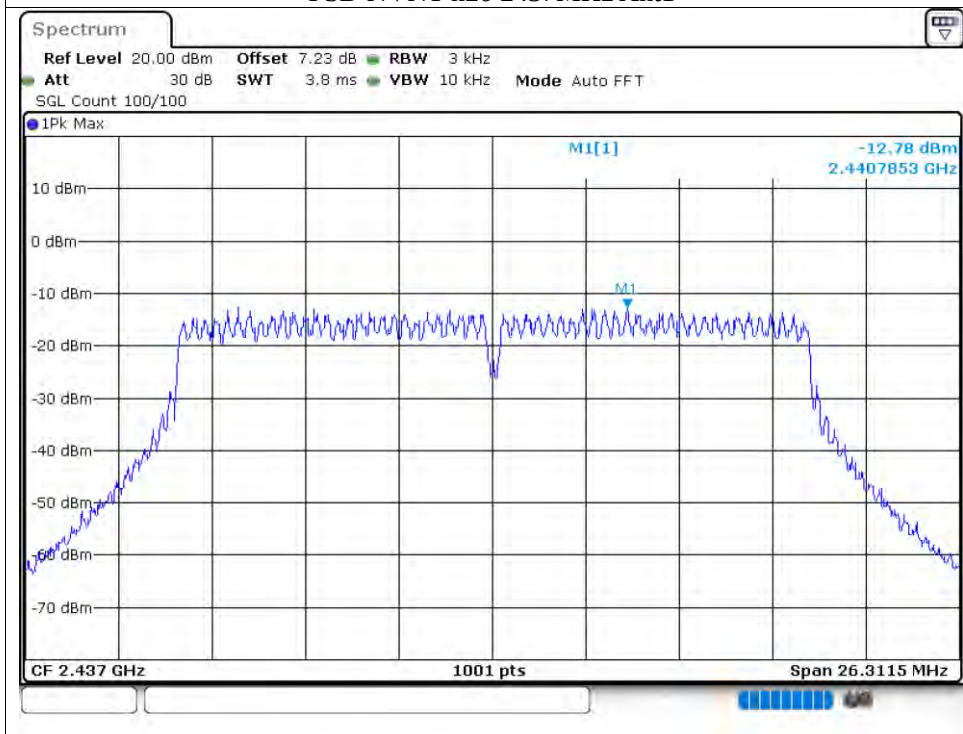
PSD NVNT g 2462MHz Ant2



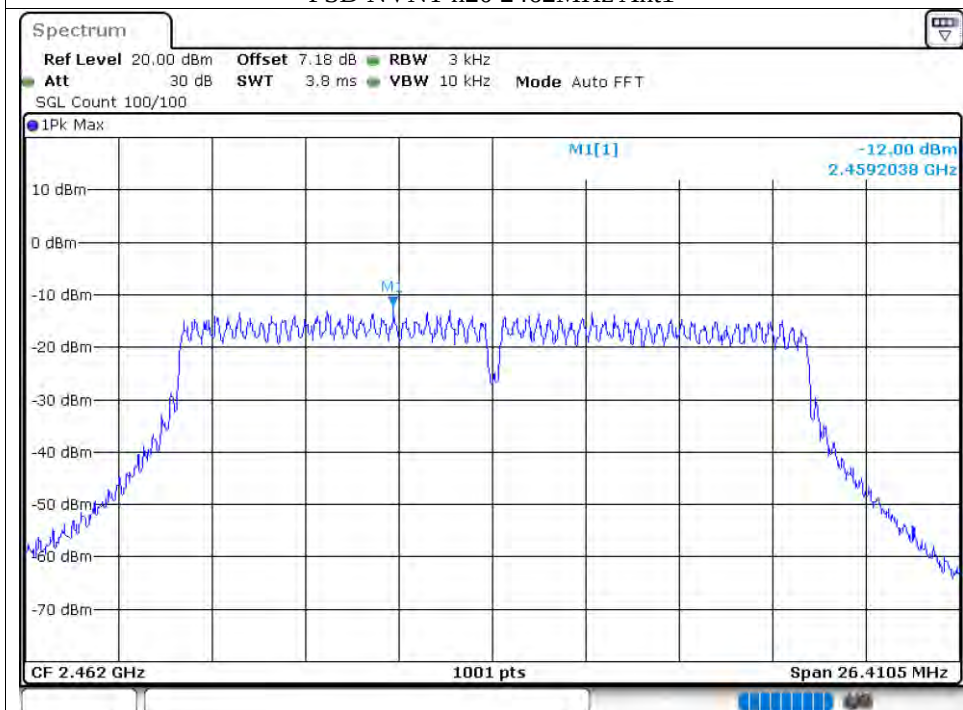
PSD NVNT n20 2412MHz Ant1



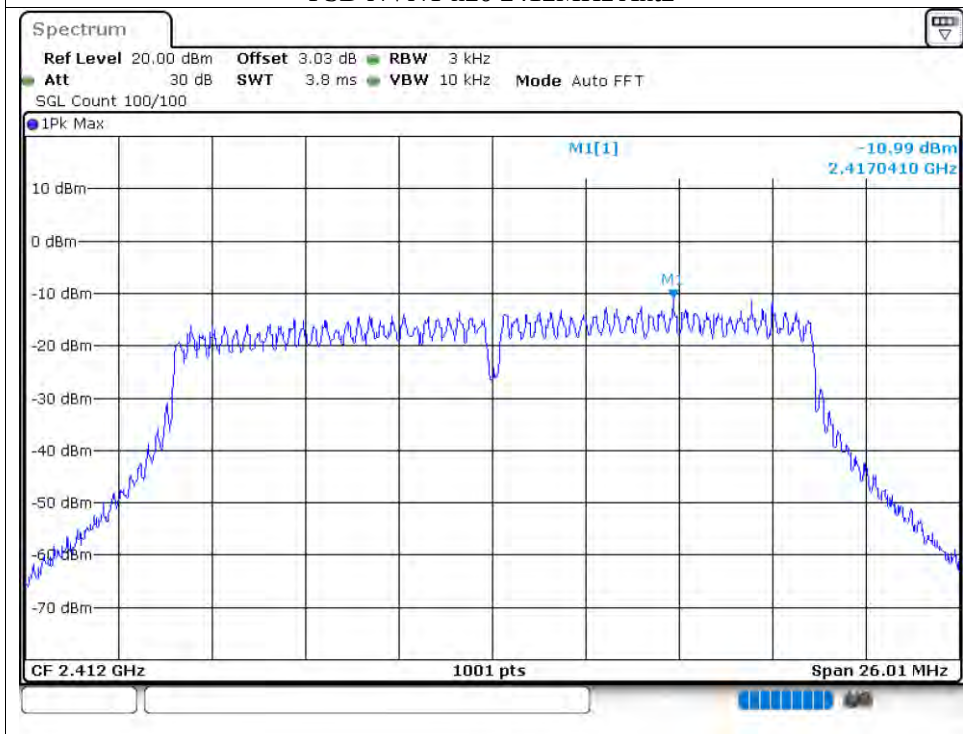
PSD NVNT n20 2437MHz Ant1



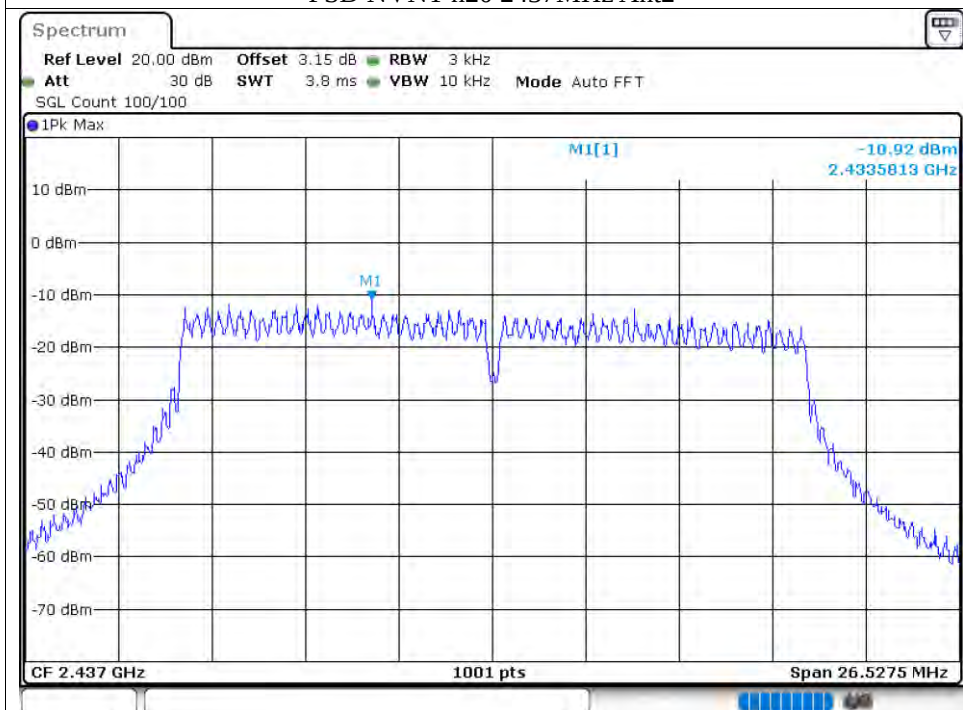
PSD NVNT n20 2462MHz Ant1



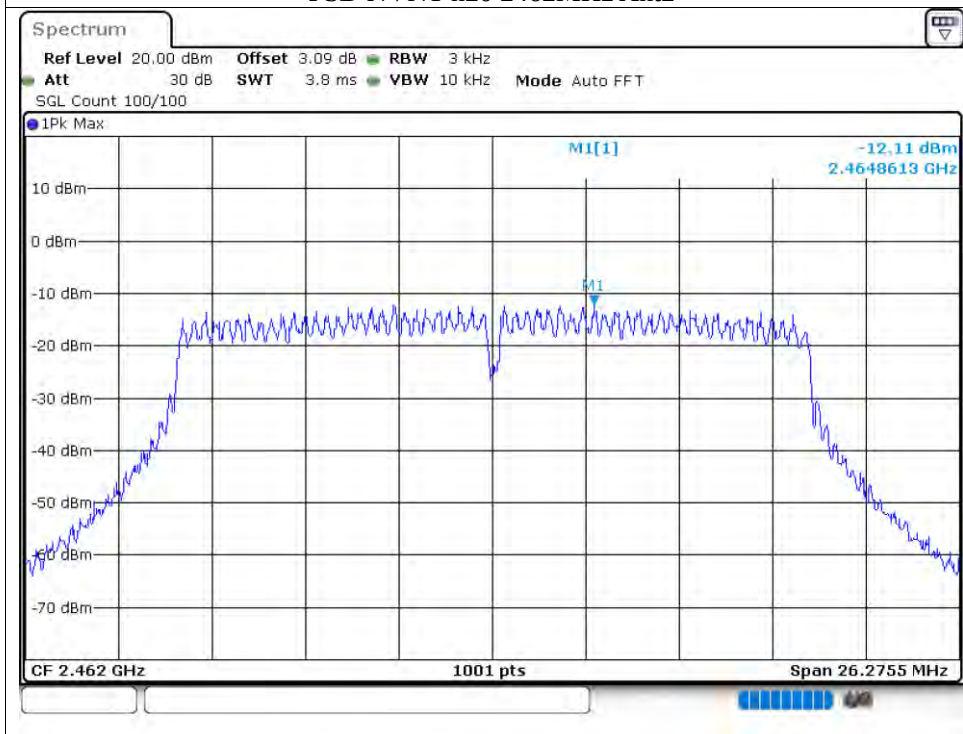
PSD NVNT n20 2412MHz Ant2



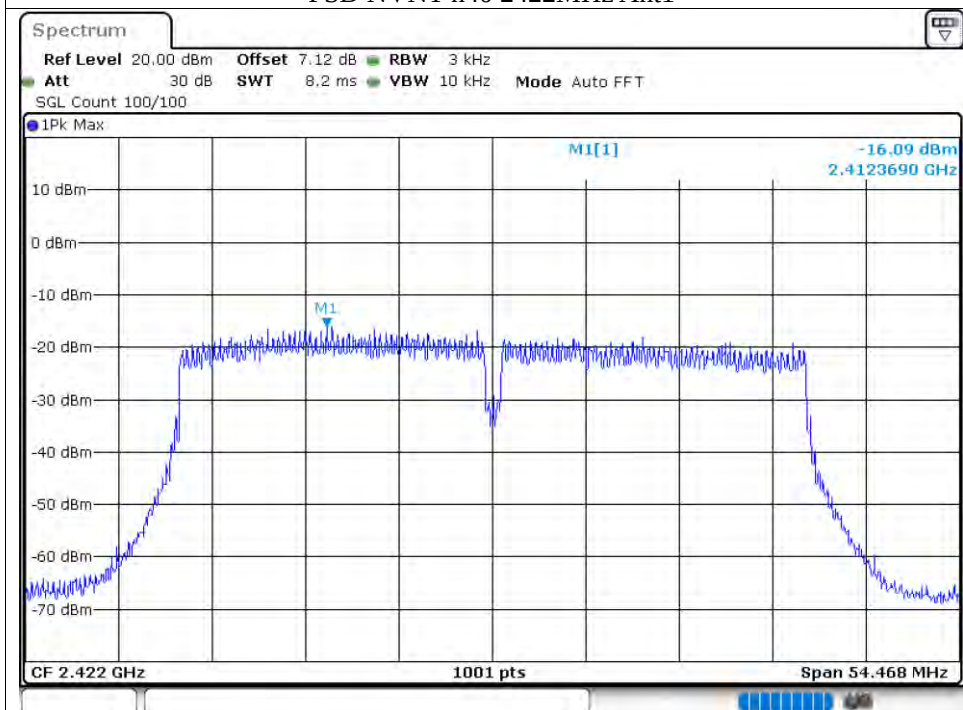
PSD NVNT n20 2437MHz Ant2



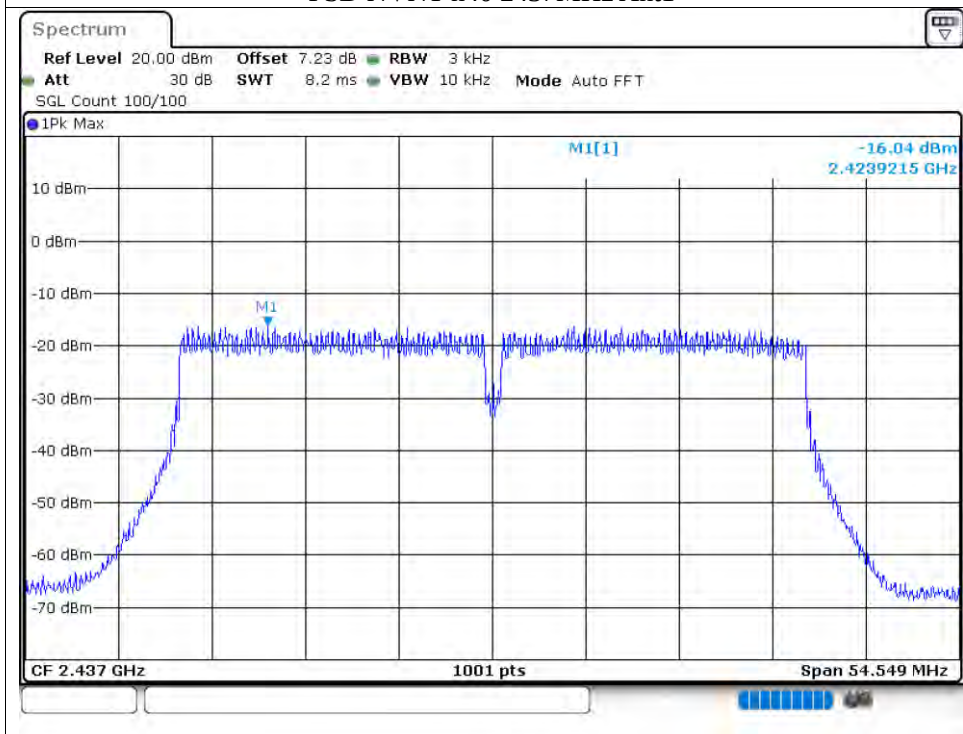
PSD NVNT n20 2462MHz Ant2



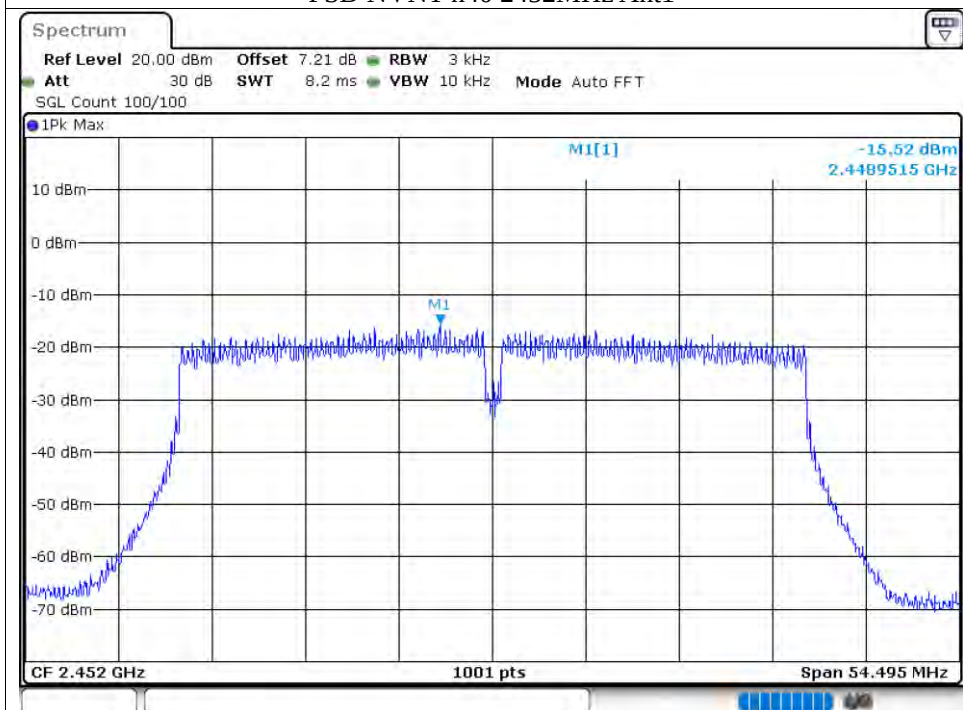
PSD NVNT n40 2422MHz Ant1



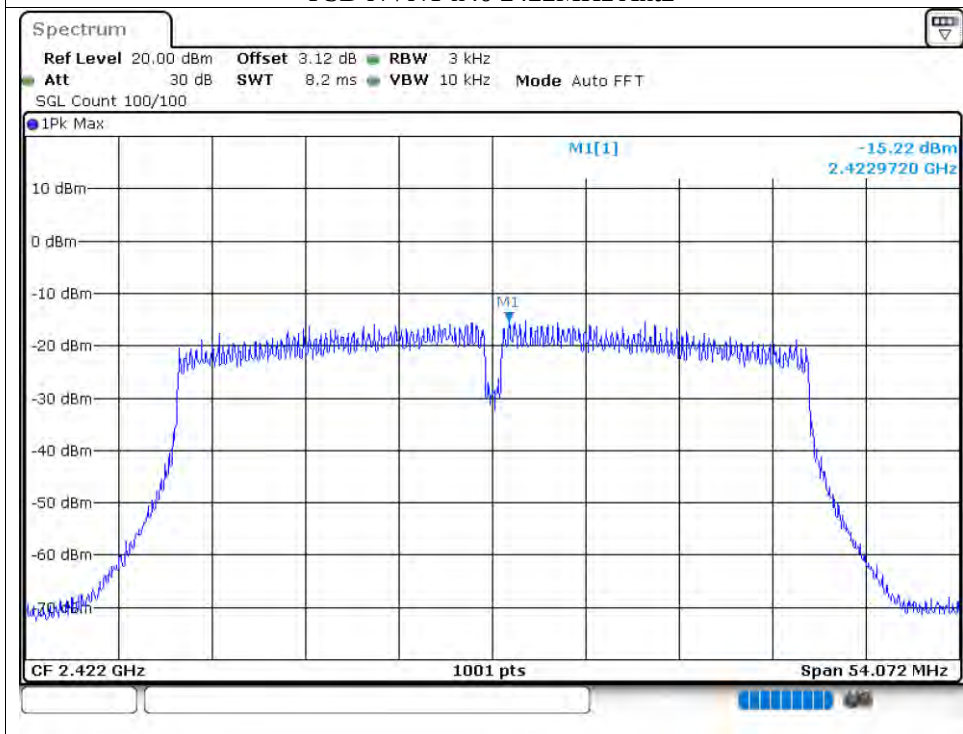
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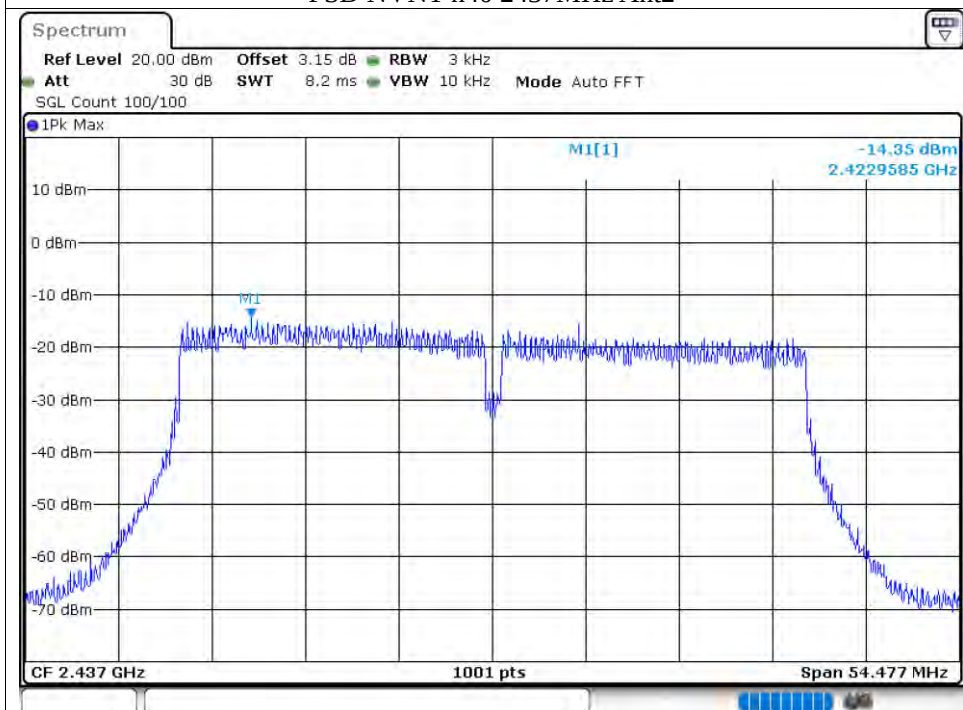
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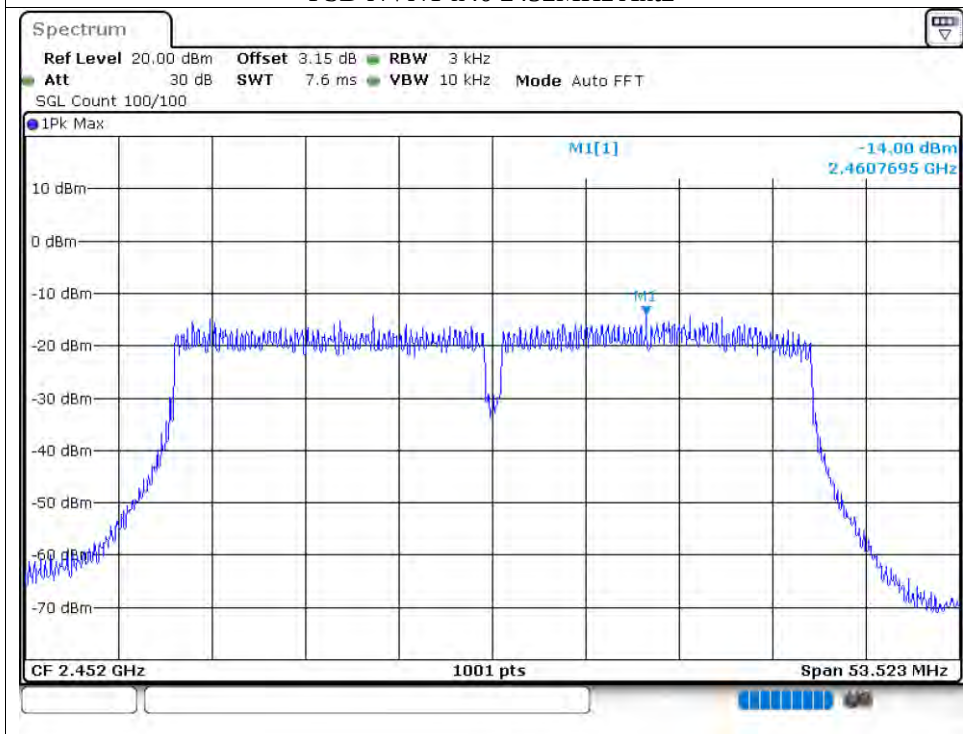
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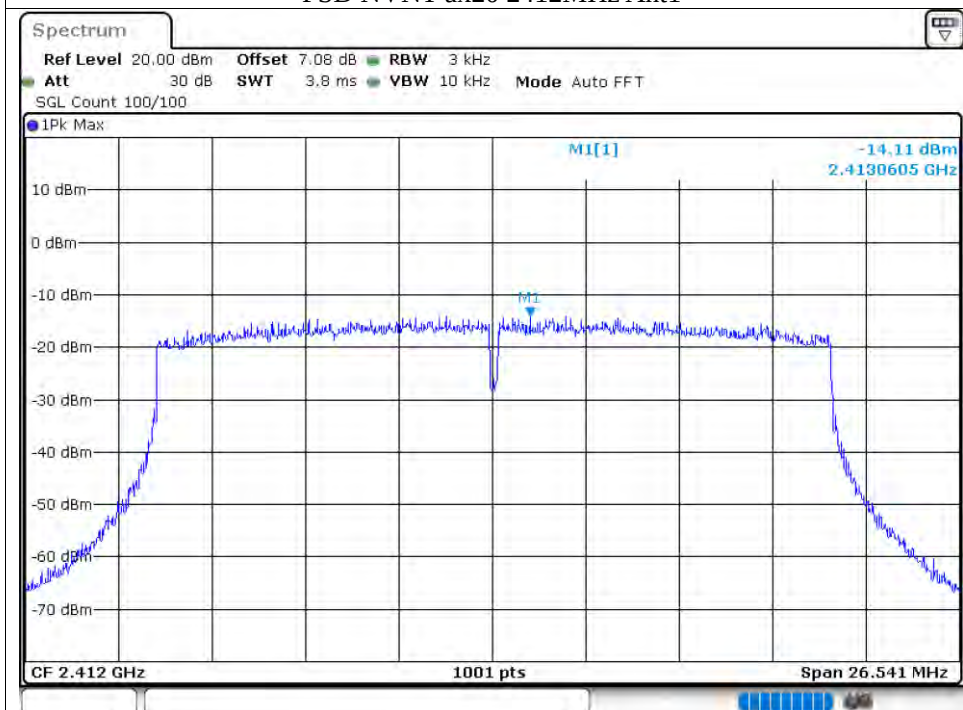
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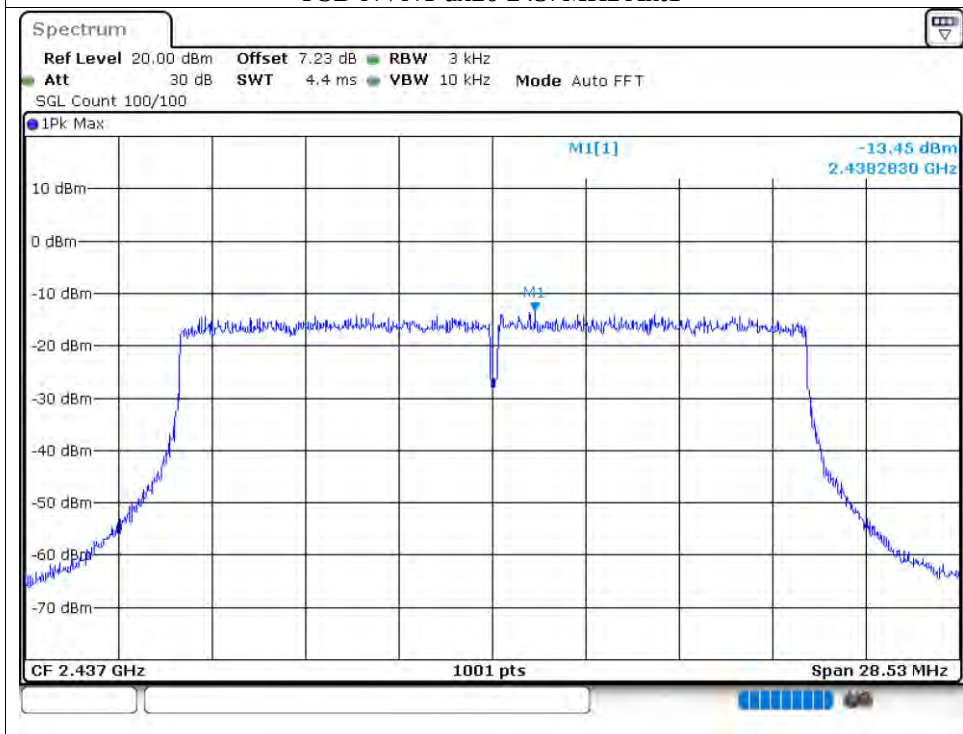
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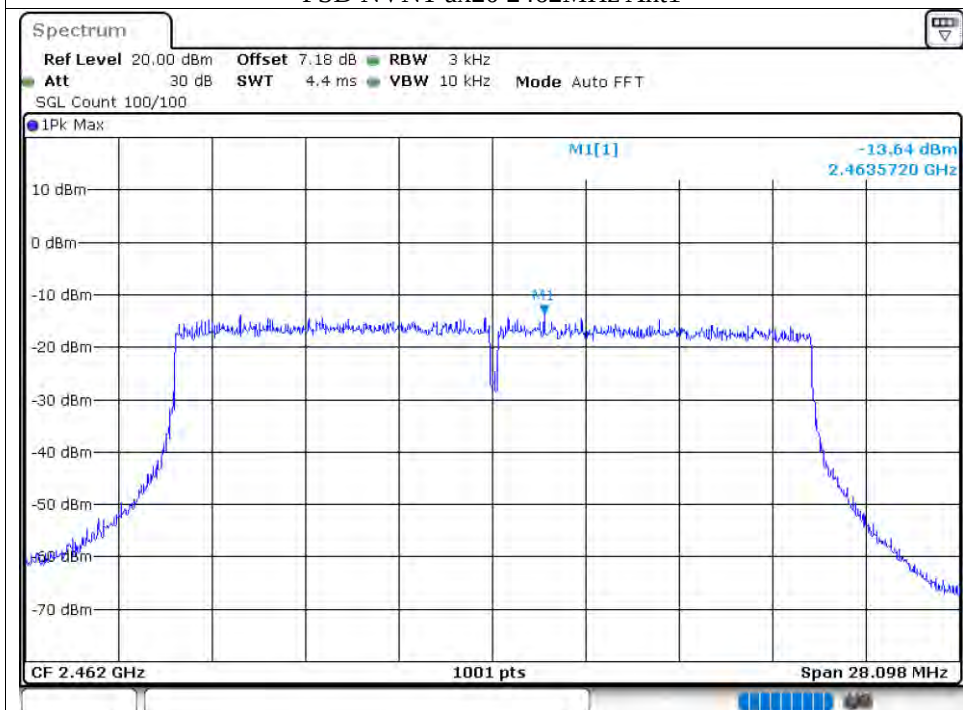
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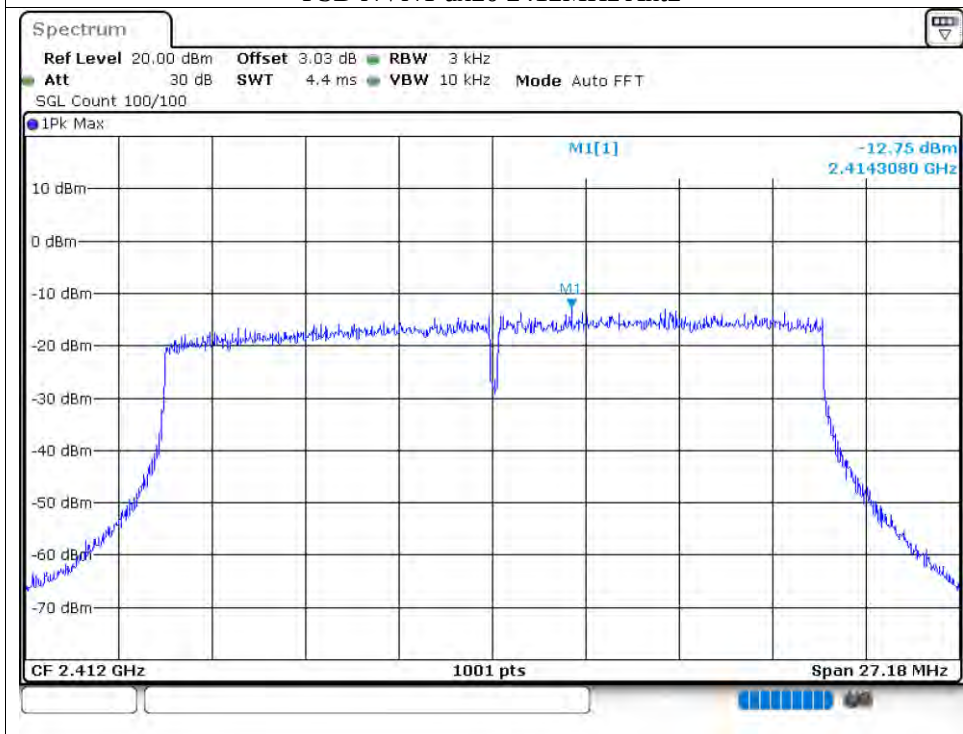
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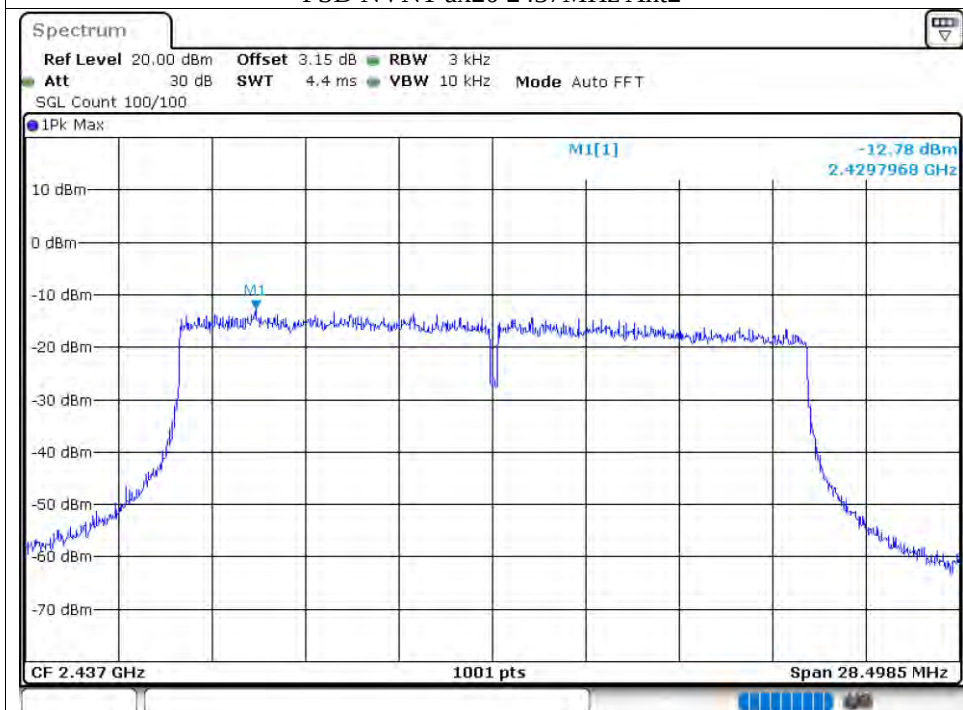
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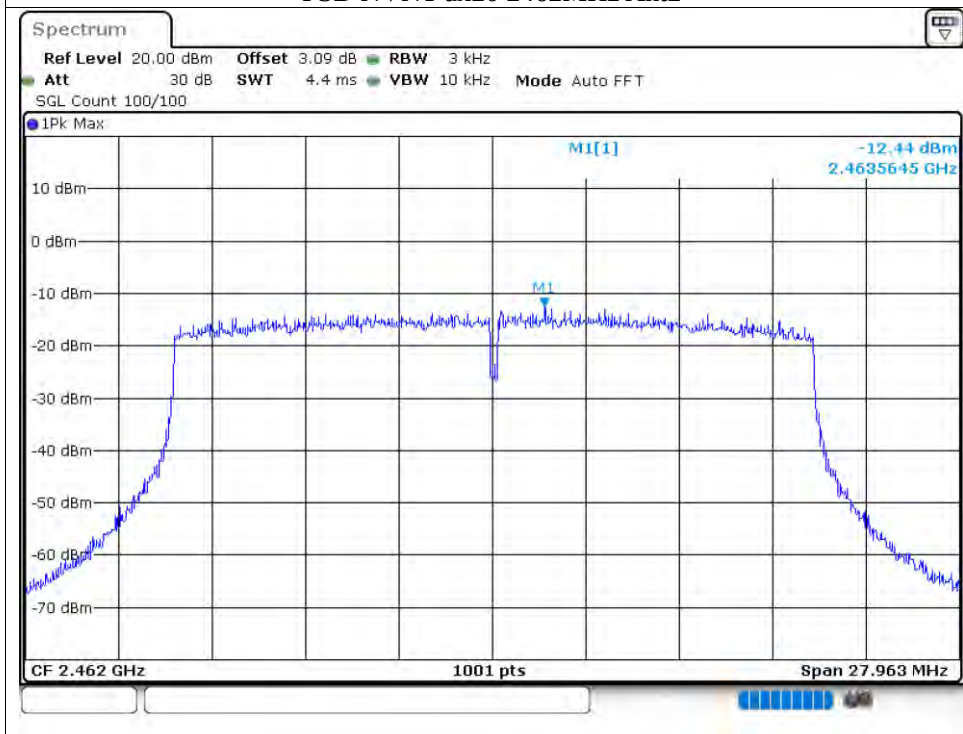
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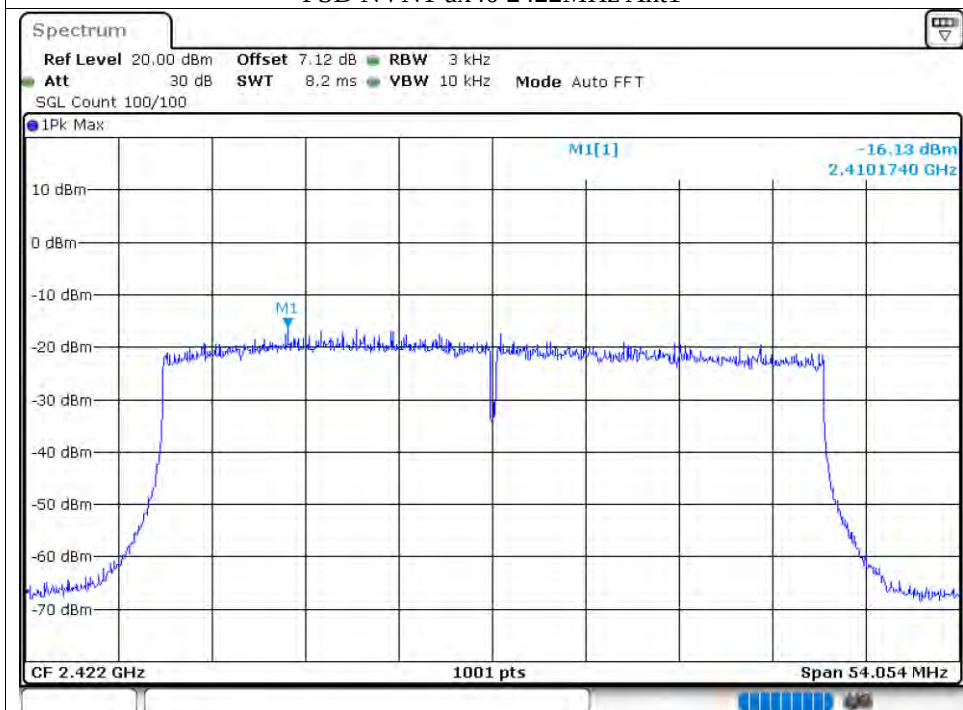
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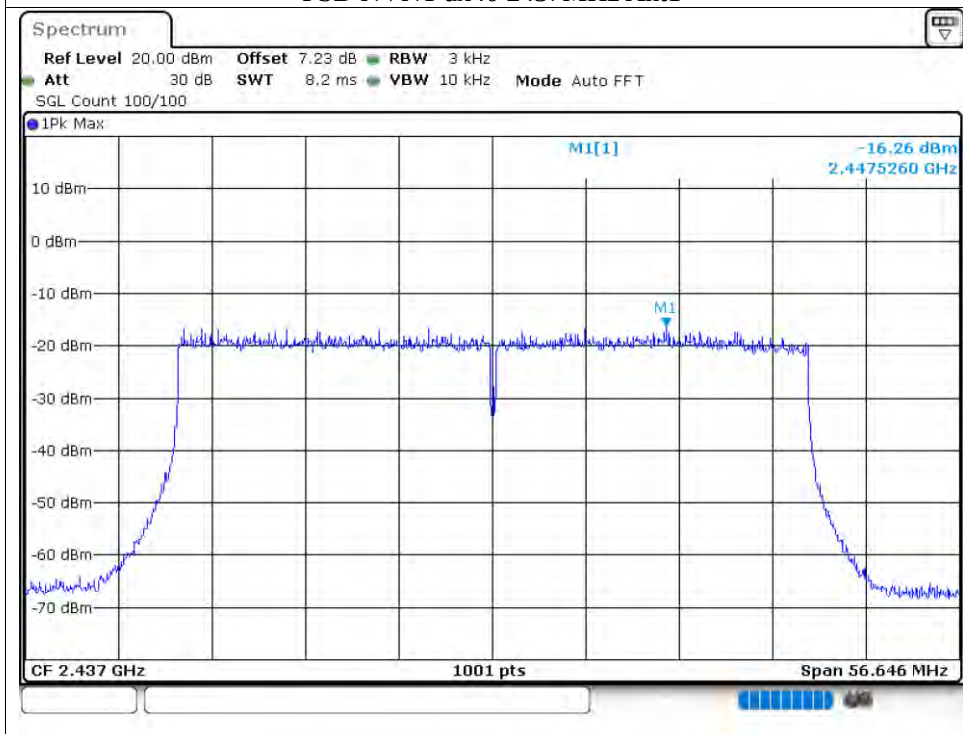
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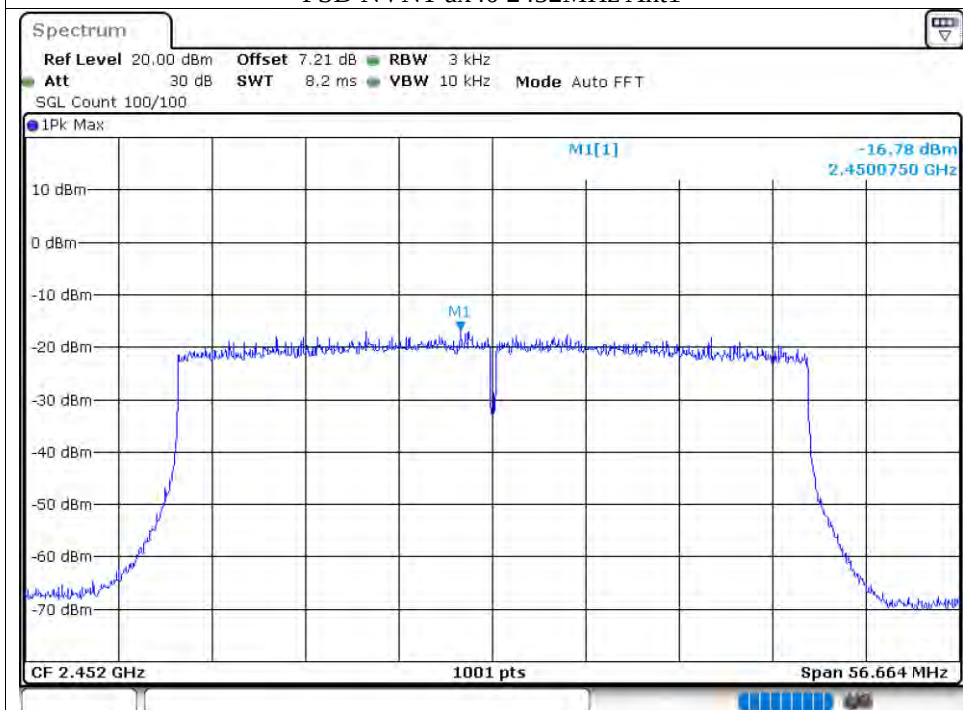
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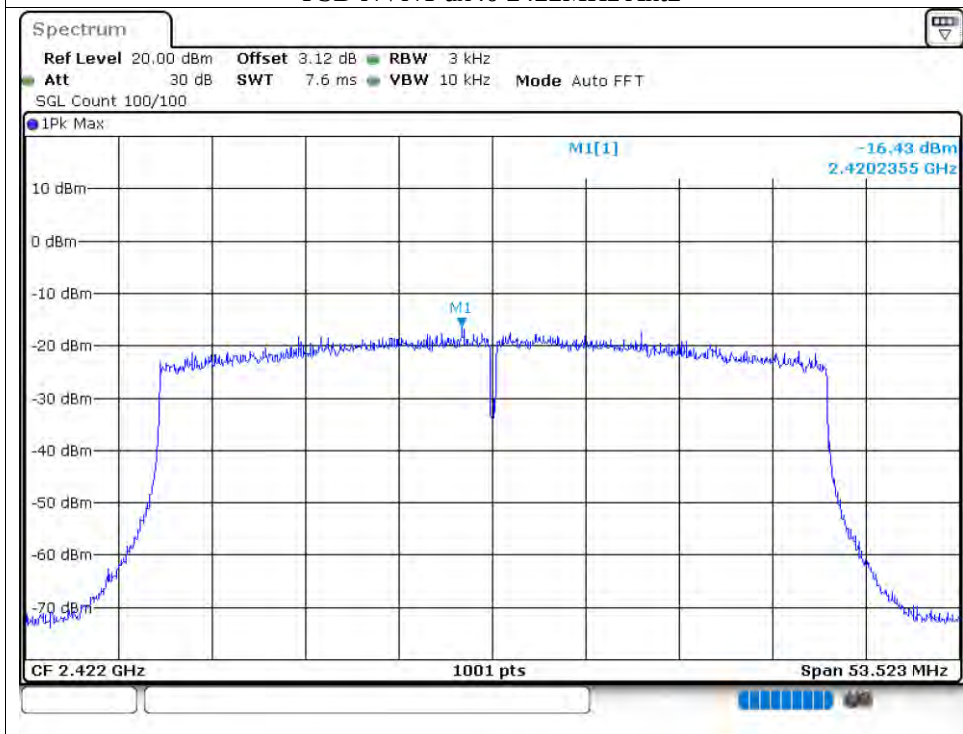
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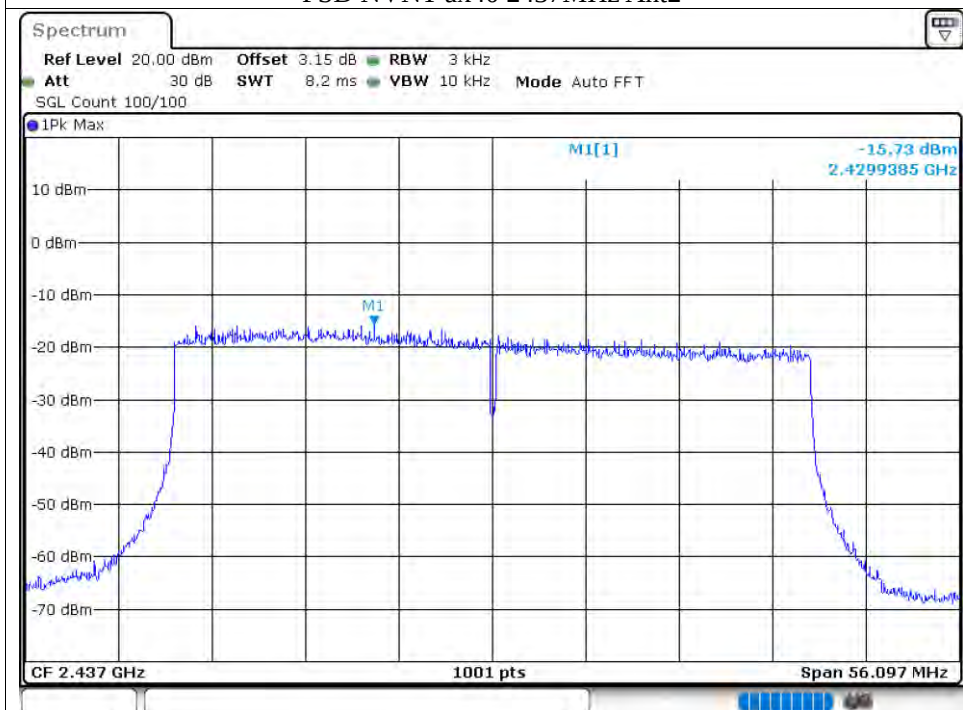
PSD NVNT ax40 2452MHz Ant1



PSD NVNT ax40 2422MHz Ant2



PSD NVNT ax40 2437MHz Ant2



PSD NVNT ax40 2452MHz Ant2

