



# FCC PART 15.247 TEST REPORT

On Behalf of

**Guangdong ximico digital technology Co.,LTD**

Room 409, 4th Floor, E1-1 Building, High-tech Development Zone, Heyuan City

**FCC ID: 2BF3M-Z42**

**Model:** Z42, H1, H2, H3, H5, H6, X1, X3, X4, X6, X8, X9, Y1, Y2, Y3, Z1, Z2, Z3, Z41, Z6, Z8, XY01, XY02, XY03, XY04, XY05, XY06, XY07, XY08, XY09, XY10, SY01, SY02, SY03, SY04, SY05, SY06, SY07, SY08, SY09, SY10

April 16, 2024

<b>This Report Concerns:</b> <input checked="" type="checkbox"/> Original Report	<b>Equipment Type:</b> Projector
<b>Test Engineer:</b> LBi Li / <i>LBi Li</i>	
<b>Report Number:</b> <b>QCT24CR-1350E-03</b>	
<b>Test Date:</b> March 18 ~ April 15, 2024	
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## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

EUT Description	Projector
Model No.	Z42, H1, H2, H3, H5, H6, X1, X3, X4, X6, X8, X9, Y1, Y2, Y3, Z1, Z2, Z3, Z41, Z6, Z8, XY01, XY02, XY03, XY04, XY05, XY06, XY07, XY08, XY09, XY10, SY01, SY02, SY03, SY04, SY05, SY06, SY07, SY08, SY09, SY10
Tested Model	Z42
Sample(s) Status	Engineer sample
Operation Frequency:	802.11b/802.11g/802.11n(HT20)/802.11ax(HE20): 2412MHz~2462MHz 802.11n(HT40)/802.11ax(HE40):: 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20)/802.11ax(HE20): 11 802.11n(HT40)/802.11ax(HE40):7
Channel separation:	5MHz
Modulation type:	802.11b: DSSS 802.11g/802.11n(HT20)/802.11n(HT40): OFDM 802.11ax(HE20)/802.11ax(HE40): OFDMA (802.11ax mode only support Full RU)
Antenna Type:	FPC Antenna
Antenna gain*1:	2.73dBi
Power supply:	100-240V~, 50/60Hz, 1.6A, 90W
Trade Mark:	N/A
Applicant:	Guangdong ximico digital technology Co.,LTD
Address:	Room 409, 4th Floor, E1-1 Building, High-tech Development Zone, Heyuan City
Manufacturer:	Guangdong ximico digital technology Co.,LTD
Address:	Room 409, 4th Floor, E1-1 Building, High-tech Development Zone, Heyuan City
Sample No.:	Y24C1350E01LY

Note: \*1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.



## 1.2 System Test Configuration

### 1.2.1 Channel List

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	X	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20) /802.11ax(HE20)	802.11n(HT40) /802.11ax(HE40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

### 1.2.2 EUT Exercise Software

The device was tested with the worst case was performed as below:

Test Mode	Data Rate	Power Level
802.11b	1Mbps	7
802.11g	6Mbps	6
802.11n(HT20)	MCS0	6
802.11n(HT40)	MCS0	5
802.11ax(HE20)	MCS0	4
802.11ax(HE40)	MCS0	5

" SecureCRT " exercise software was made to the EUT tested. The software and power level was provided by the applicant.

### 1.2.3 Support Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

### 1.2.4 Test mode

Transmitting mode: Keep the EUT in continuously transmitting.



### 1.3 Test Facility

Test Firm : Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS – Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

### 1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 1.42 \times 10^{-4}\%$
RF output power, conducted	$\pm 1.06\text{dB}$
Power Spectral Density, conducted	$\pm 1.06\text{dB}$
Unwanted Emissions, conducted	$\pm 2.51\text{dB}$
AC Power Line Conducted Emission	$\pm 1.80\text{dB}$
Radiated Spurious Emission test (9kHz-30MHz)	$\pm 2.66\text{dB}$
Radiated Spurious Emission test (30MHz-1000MHz)	$\pm 4.04\text{dB}$
Radiated Spurious Emission test (1000MHz-18000MHz)	$\pm 4.70 \text{ dB}$
Radiated Spurious Emission test (18GHz-40GHz)	$\pm 4.80\text{dB}$
Temperature	$\pm 0.8^\circ\text{C}$
Humidity	$\pm 3.2\%$
DC and low frequency voltages	$\pm 0.1\%$
Time	$\pm 5\%$
Duty cycle	$\pm 5\%$

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2



## 2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% Occupied Bandwidth	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emissions	FCC part 15.205/15.209	Pass

- Note:
1. Pass: The EUT complies with the essential requirements in the standard.
  2. Test according to ANSI C63.10:2013
  3. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.





### 3. List of Test and Measurement Instruments

#### 3.1 Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESIB 7	2277573376	2024.03.14	2025.03.13
2	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101820	2023.08.21	2024.08.20
3	Artificial Mains Network	SCHWARZBECK	NSLK8126	8126200	2024.03.14	2025.03.13
4	PULSE LIMITER	R&S	ESH3-Z2	100058	2024.03.14	2025.03.13

Conducted Emission Measurement Software: TS

#### 3.2 Radiated Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.	Spectrum Analyzer	ROHDE&SCHWARZ	FSV 40	101458	2024.03.14	2025.03.13
2.	Loop Antenna	EMCO	6502	2133	2022.07.23	2024.07.22
3.	Logarithmic compound broadband Antenna	SCKWARZBECK	VULB9168	VULB9168-1-588	2023.04.01	2025.03.31
4.	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB 7	2277573376	2024.03.14	2025.03.13
5.	EMI Test Receiver	R&S	ESPI	101131	2024.03.14	2025.03.13
6.	Horn Antenna	SCHWARZBECK	BBHA9120D	02069	2023.04.01	2025.03.31
7.	Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2023.01.12	2025.01.09
8.	Amplifier	R&S	BBV9721	9721-031	2024.03.14	2025.03.13
9.	Amplifier	HPX	BP-01G-18G	210902	2024.03.14	2025.03.13
10.	Pre-amplifier	COM-MW	DLAN-18000-40000-02	10229104	2024.03.14	2025.03.13
11.	966 Chamber	ZhongYu Electron	9*6*6	/	2022.07.25	2025.07.24

Radiated Emission Measurement Software: EZ\_EMC



### 3.3 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.	Wideband Radio Communication Tester	Rohde & Schwarz	CW500	151583	2024.03.14	2025.03.13
2.	Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40	101458	2024.03.14	2025.03.13
3.	Signal Generator	Agilent	N5182A	MY50141563	2024.03.14	2025.03.13
4.	RF Automatic Test System	MW	MW100-RFCB/ MW100-PSB	MW2007004	2024.03.14	2025.03.13

RF Conducted Measurement Software: MTS 8310



## 4. Antenna requirement

**Standard requirement:** FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

**EUT Antenna:** The Ant is FPC Antenna, the best case gain of the antenna is 2.73dBi, reference to the Internal photo for details.

## 5. Conducted Emissions

### 5.1 Applicable Standard

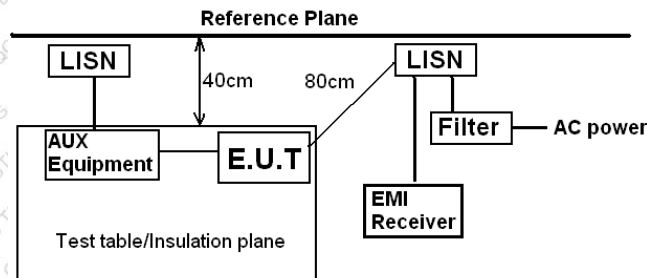
FCC Part15 C Section 15.207

### 5.2 Limit

Frequency range (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note \*: The level decreases linearly with the logarithm of the frequency.

### 5.3 Test setup



Remark:  
 E.U.T: Equipment Under Test  
 LISN: Line Impedance Stabilization Network  
 Test table height=0.8m

### 5.4 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.  
 RBW=9 kHz, VBW=30 kHz, Sweep time=auto

### 5.5 Test procedure

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

### 5.6 Test Data

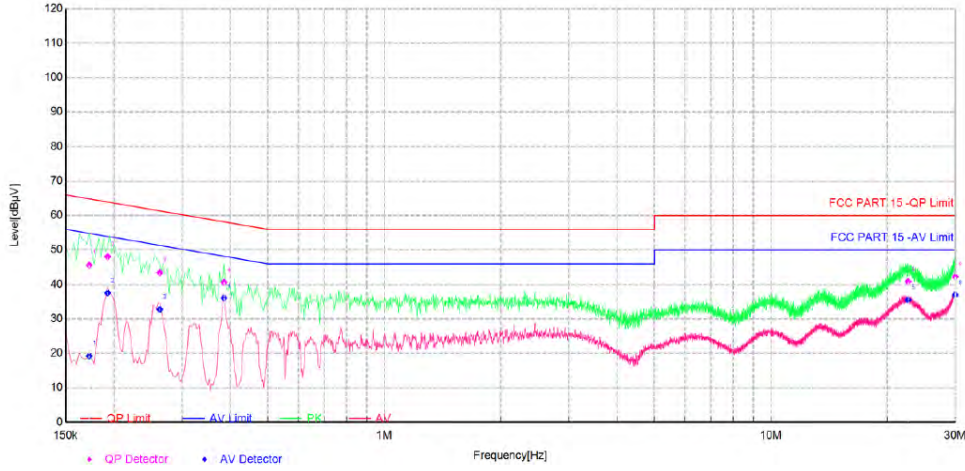
Temperature	25.4 °C	Humidity	62%
ATM Pressure	101.1kPa	Antenna Gain	2.73dBi
Test by	LBi Li	Test result	PASS



Measurement data:

Pre-scan all test modes, found worst case at 802.11b mode 2412MHz, and so only show the test result of 802.11b mode 2412MHz

Line:

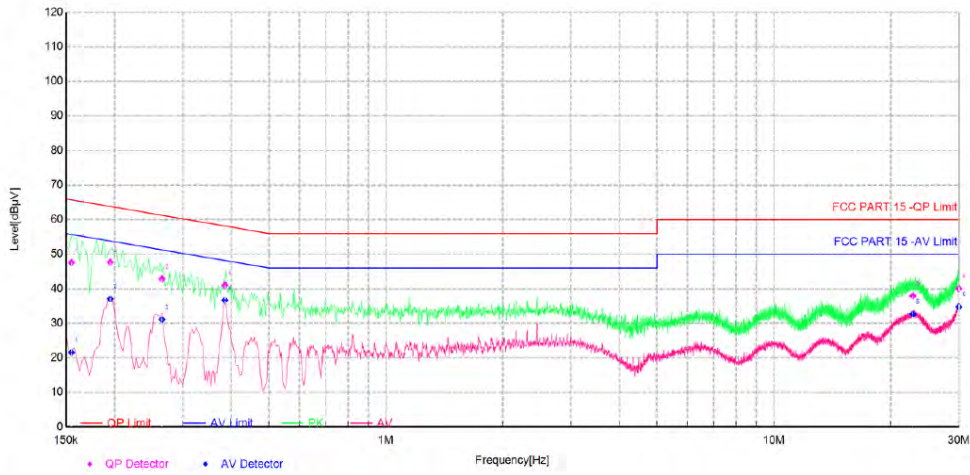


Final Data List

NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.1725	10.13	45.61	64.84	19.23	19.24	54.84	35.60	L	PASS
2	0.1925	10.23	48.06	63.93	15.87	37.52	53.93	16.41	L	PASS
3	0.2625	10.43	43.41	61.35	17.94	32.79	51.35	18.56	L	PASS
4	0.3850	10.10	40.62	58.17	17.55	36.13	48.17	12.04	L	PASS
5	22.6460	10.42	40.85	60.00	19.15	35.49	50.00	14.51	L	PASS
6	29.9630	10.59	42.27	60.00	17.73	36.93	50.00	13.07	L	PASS



Neutral:



Final Data List										
NO.	Freq [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.1550	10.01	47.56	65.73	18.17	21.52	55.73	34.21	N	PASS
2	0.1950	10.29	47.65	63.82	16.17	37.04	53.82	16.78	N	PASS
3	0.2650	10.42	42.84	61.27	18.43	31.09	51.27	20.18	N	PASS
4	0.3850	10.41	41.06	58.17	17.11	36.69	48.17	11.48	N	PASS
5	22.8215	10.44	37.94	60.00	22.06	32.66	50.00	17.34	N	PASS
6	29.9450	10.55	40.05	60.00	19.95	34.77	50.00	15.23	N	PASS

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

## 6. Conducted Peak Output Power

### 6.1 Applicable Standard

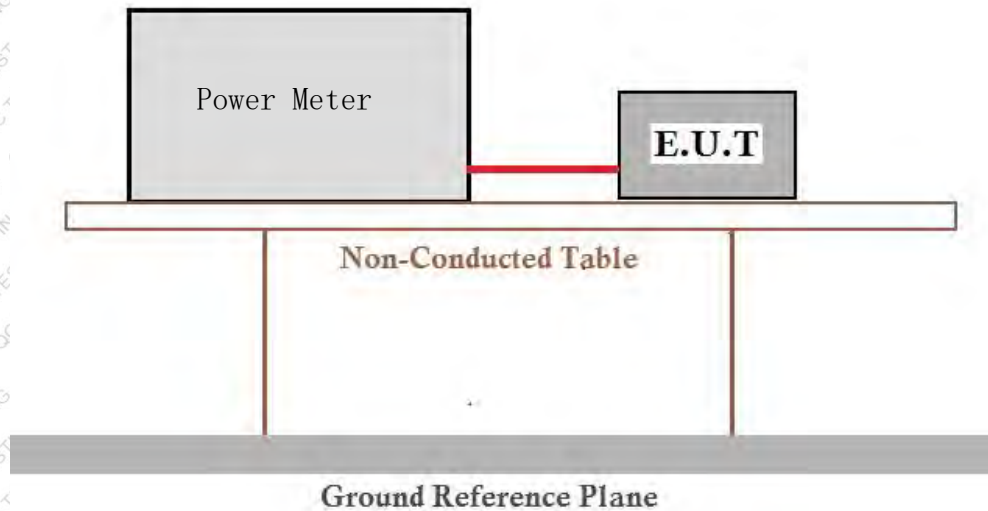
FCC Part15 C Section 15.247 (b)(3)

### 6.2 Limit

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

### 6.3 Test setup



### 6.4 Test Data

Temperature	26.3 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	2.73dBi
Test by	LBi Li	Test result	PASS

Please refer to following table and plots.



**Output Power:**

Modulation	CH No.	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Verdict
802.11b	01	2412	17.19	≤30	PASS
	06	2437	15.62	≤30	PASS
	11	2462	16.09	≤30	PASS
802.11g	01	2412	15.49	≤30	PASS
	06	2437	14.44	≤30	PASS
	11	2462	14.38	≤30	PASS
802.11n(HT20)	01	2412	15.61	≤30	PASS
	06	2437	14.39	≤30	PASS
	11	2462	14.3	≤30	PASS
802.11n(HT40)	03	2422	12.35	≤30	PASS
	06	2437	11.64	≤30	PASS
	09	2452	11.9	≤30	PASS
802.11ax(HE20)	01	2412	12.54	≤30	PASS
	06	2437	11.25	≤30	PASS
	11	2462	11.24	≤30	PASS
802.11ax(HE40)	03	2422	13.92	≤30	PASS
	06	2437	12.74	≤30	PASS
	09	2452	12.58	≤30	PASS



## 7. Channel Bandwidth & 99% Occupied Bandwidth

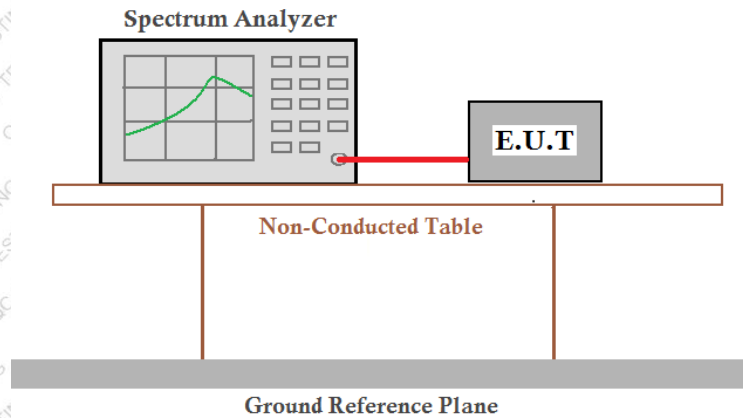
### 7.1 Applicable Standard

FCC Part15 C Section 15.247 (a)(2)

### 7.2 Limit

The minimum 6 dB bandwidth shall be 500 kHz.

### 7.3 Test setup



### 7.4 Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

### 7.5 Test Data

Temperature	26.3 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	2.73dBi
Test by	LBi Li	Test result	PASS

Please refer to following table and plots.



**DTS Bandwidth:**

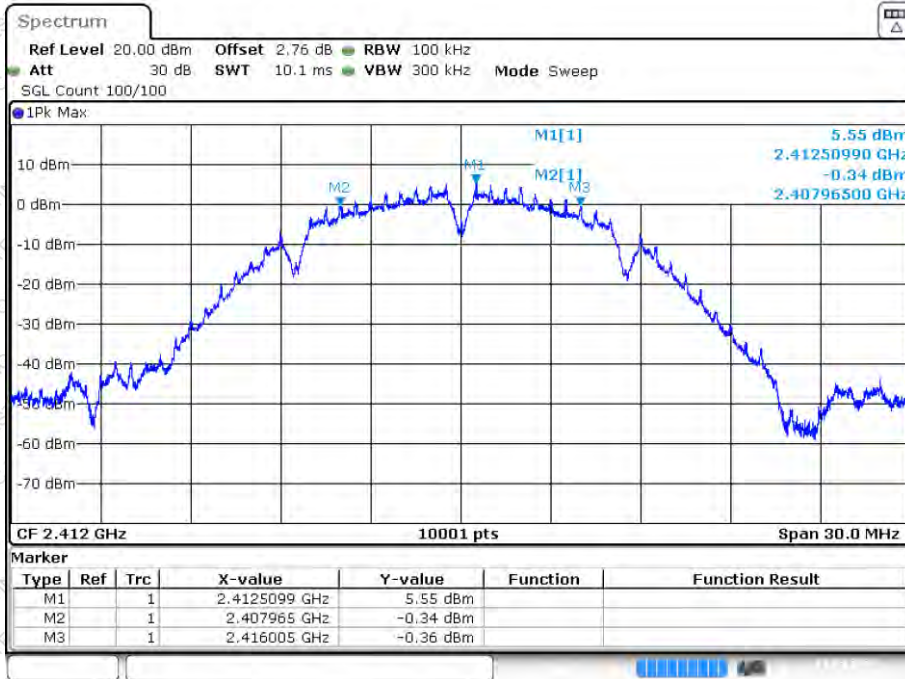
Modulation	CH No.	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	01	2412	8.04	0.5	PASS
	06	2437	8.007	0.5	PASS
	11	2462	8.067	0.5	PASS
802.11g	01	2412	16.317	0.5	PASS
	06	2437	16.299	0.5	PASS
	11	2462	16.326	0.5	PASS
802.11n(HT20)	01	2412	17.538	0.5	PASS
	06	2437	17.58	0.5	PASS
	11	2462	17.565	0.5	PASS
802.11n(HT40)	03	2422	36.054	0.5	PASS
	06	2437	36.318	0.5	PASS
	09	2452	36.33	0.5	PASS
802.11ax(HE20)	01	2412	19.029	0.5	PASS
	06	2437	19.035	0.5	PASS
	11	2462	18.987	0.5	PASS
802.11ax(HE40)	03	2422	37.89	0.5	PASS
	06	2437	38.076	0.5	PASS
	09	2452	37.974	0.5	PASS

**99% Occupied Bandwidth:**

Modulation	CH No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	01	2412	12.35	---	PASS
	06	2437	12.356	---	PASS
	11	2462	12.368	---	PASS
802.11g	01	2412	16.837	---	PASS
	06	2437	16.819	---	PASS
	11	2462	16.792	---	PASS
802.11n(HT20)	01	2412	18.061	---	PASS
	06	2437	18.055	---	PASS
	11	2462	18.022	---	PASS
802.11n(HT40)	03	2422	36.848	---	PASS
	06	2437	36.872	---	PASS
	09	2452	36.89	---	PASS
802.11ax(HE20)	01	2412	19.135	---	PASS
	06	2437	19.141	---	PASS
	11	2462	19.153	---	PASS
802.11ax(HE40)	03	2422	38.06	---	PASS
	06	2437	38.072	---	PASS
	09	2452	38.096	---	PASS

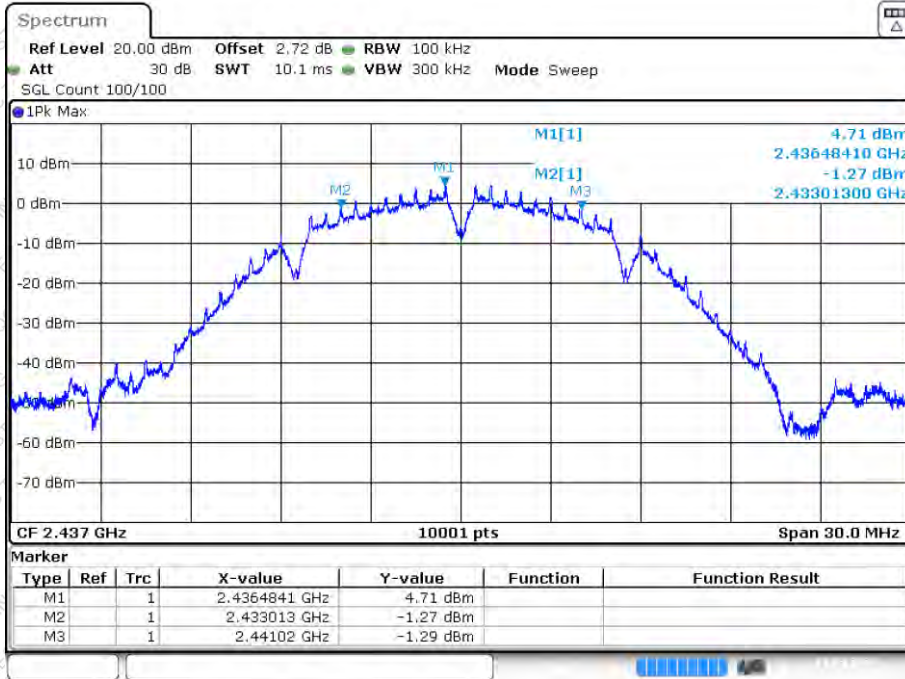


### -6dB Bandwidth NVNT b 2412MHz Ant1



Date: 18.MAR.2024 14:41:44

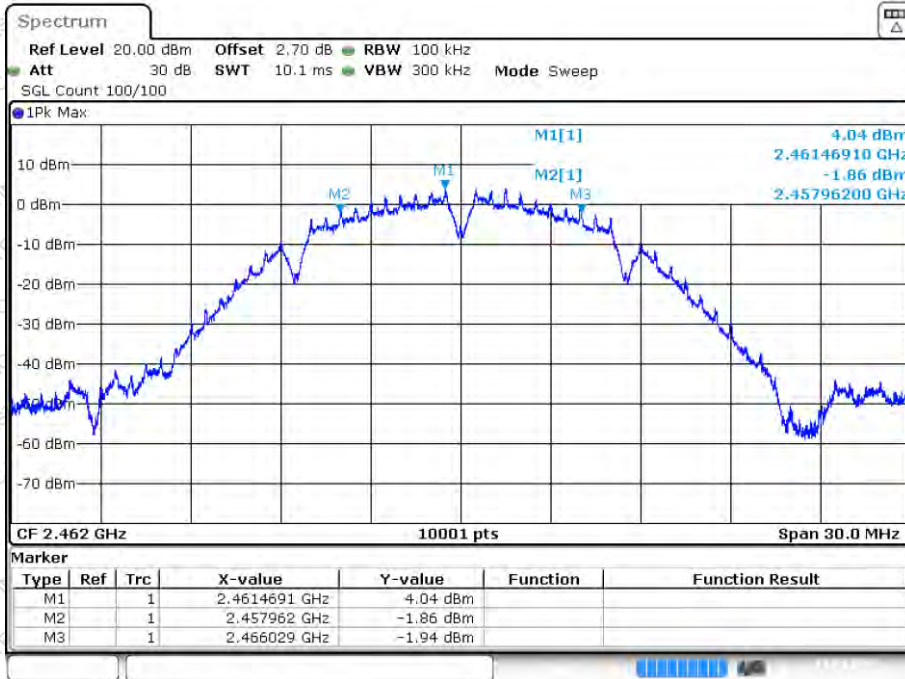
### -6dB Bandwidth NVNT b 2437MHz Ant1



Date: 18.MAR.2024 14:43:03

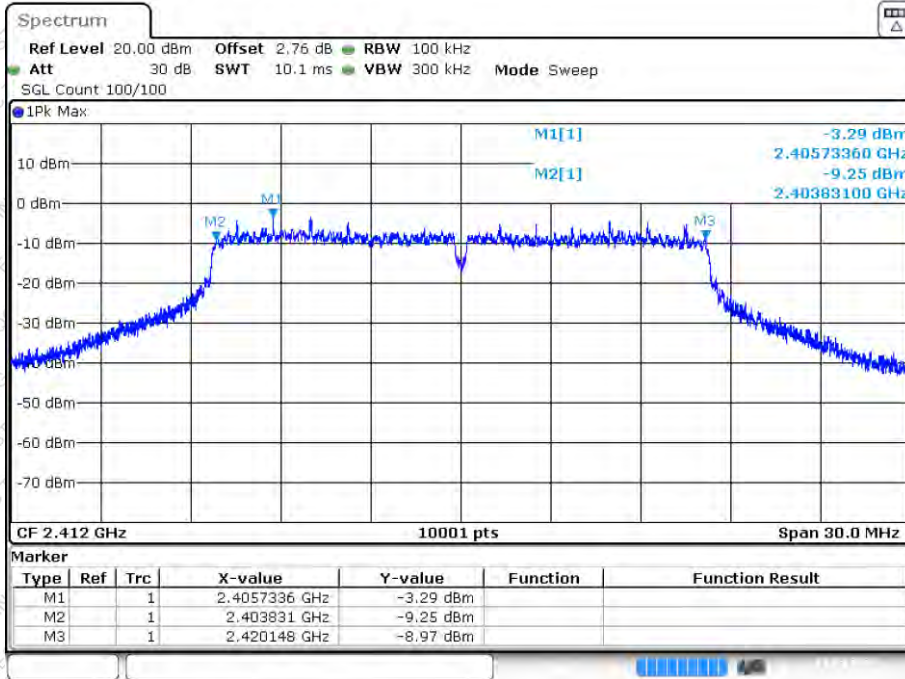


### -6dB Bandwidth NVNT b 2462MHz Ant1



Date: 18.MAR.2024 14:44:13

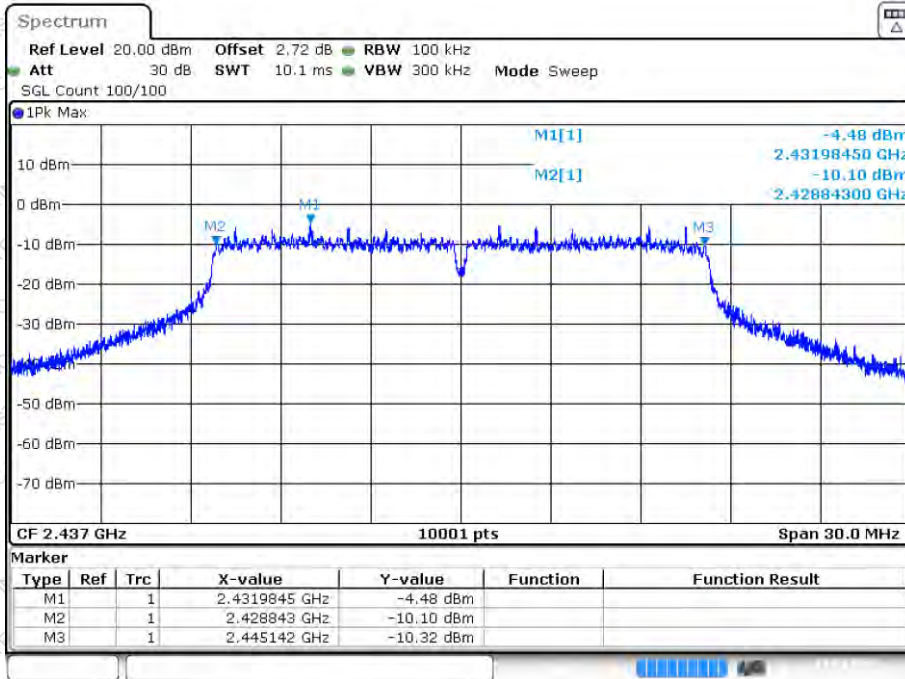
### -6dB Bandwidth NVNT g 2412MHz Ant1



Date: 18.MAR.2024 14:48:26

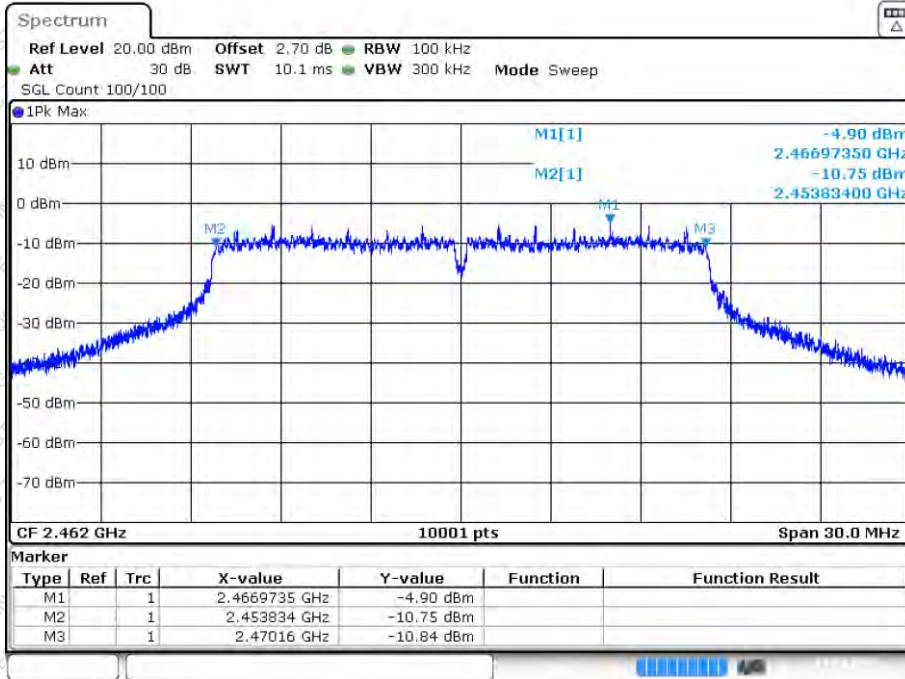


### -6dB Bandwidth NVNT g 2437MHz Ant1



Date: 18.MAR.2024 14:50:16

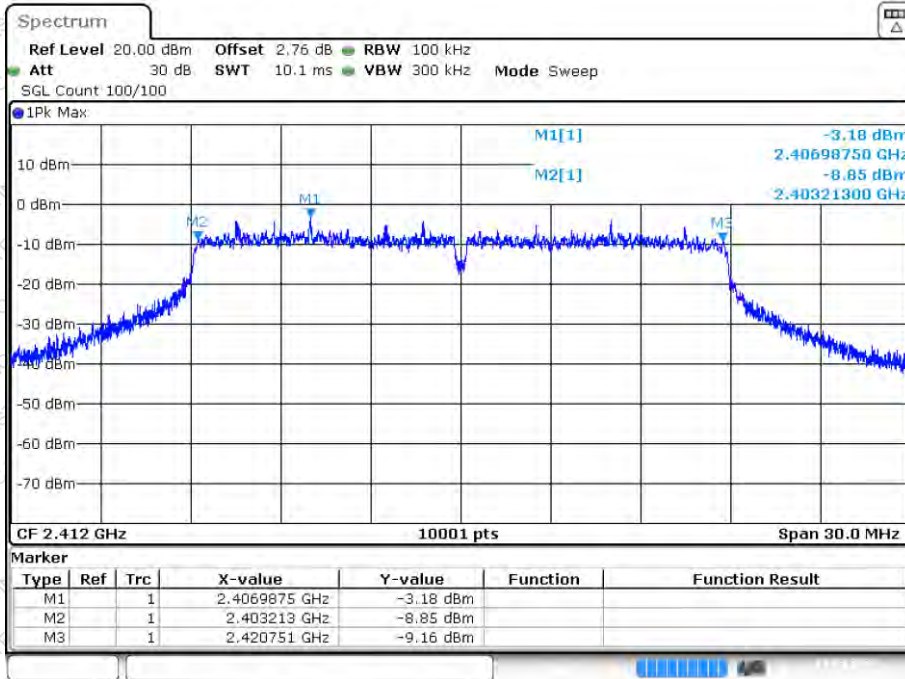
### -6dB Bandwidth NVNT g 2462MHz Ant1



Date: 18.MAR.2024 14:51:32

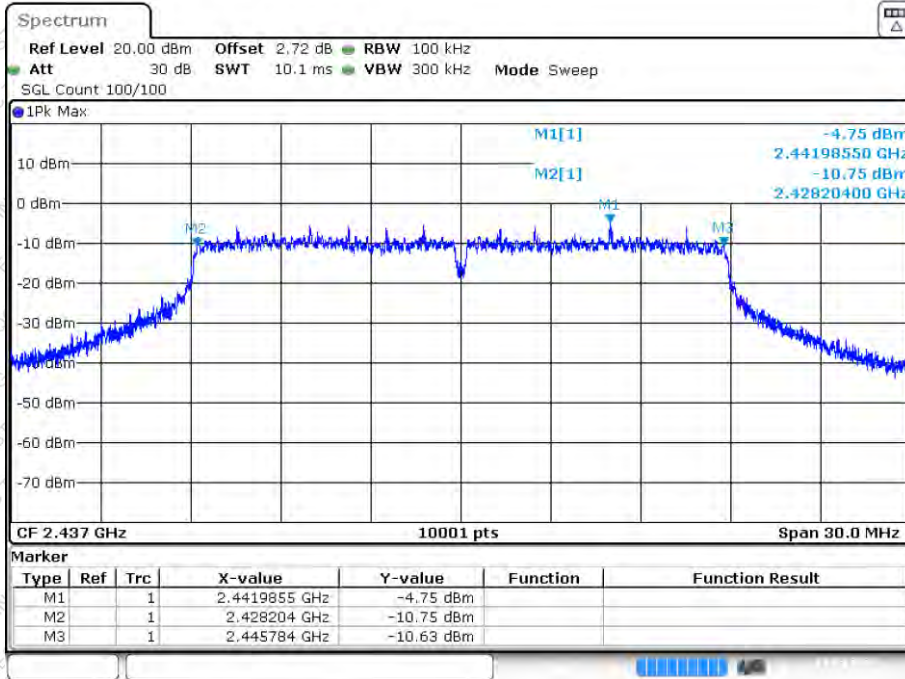


### -6dB Bandwidth NVNT n20 2412MHz Ant1



Date: 18.MAR.2024 14:54:12

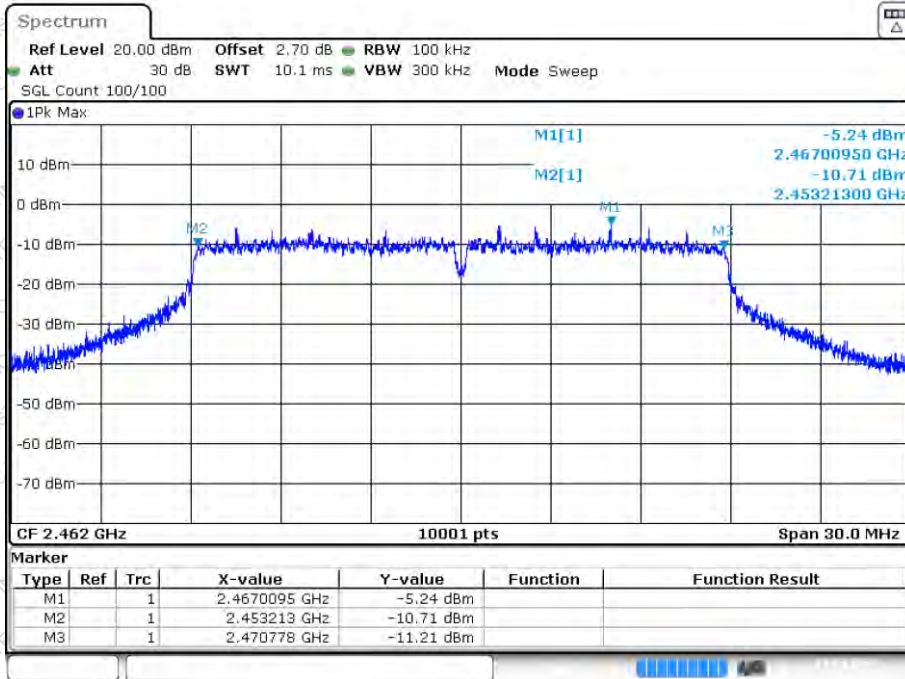
### -6dB Bandwidth NVNT n20 2437MHz Ant1



Date: 18.MAR.2024 14:55:28

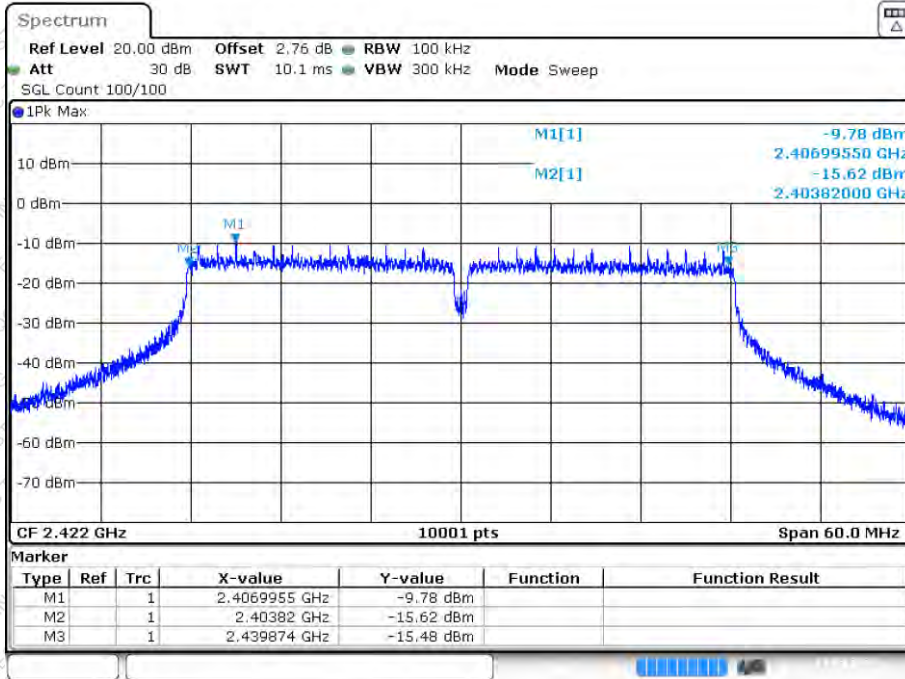


### -6dB Bandwidth NVNT n20 2462MHz Ant1



Date: 18.MAR.2024 14:56:34

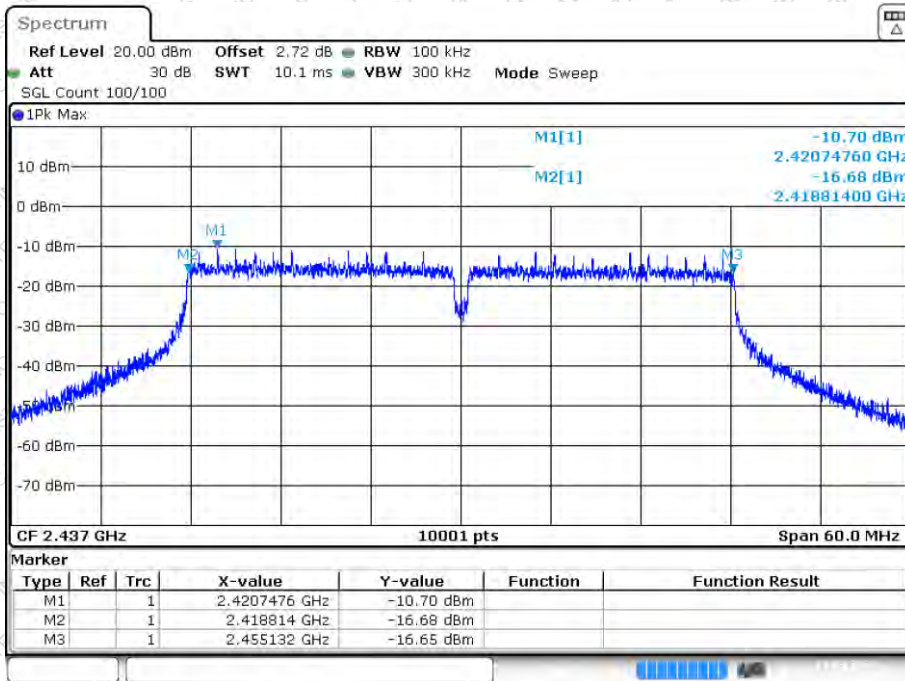
### -6dB Bandwidth NVNT n40 2422MHz Ant1



Date: 18.MAR.2024 15:34:22

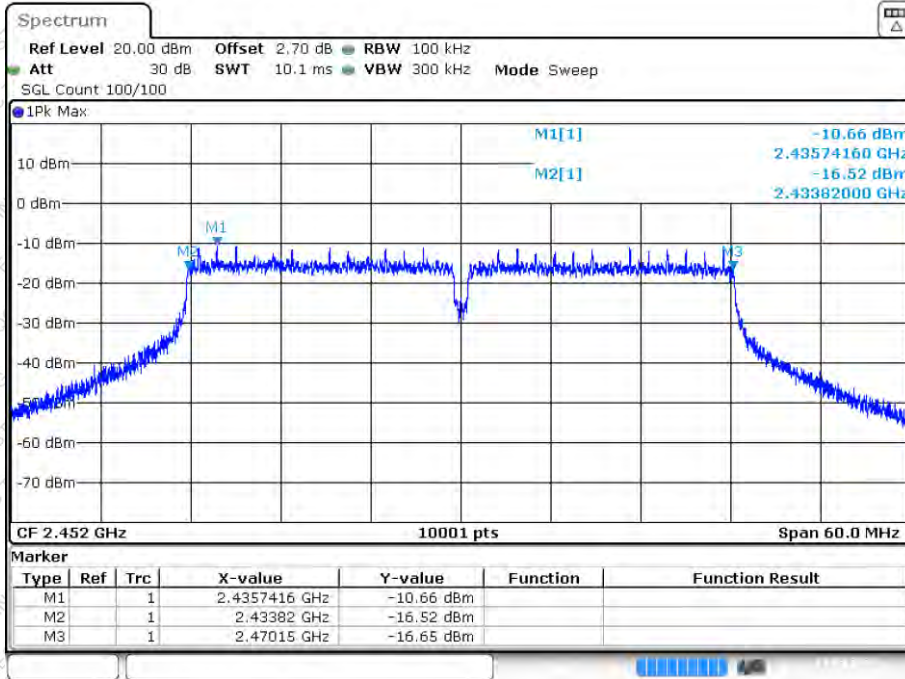


### -6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 18.MAR.2024 15:02:52

### -6dB Bandwidth NVNT n40 2452MHz Ant1

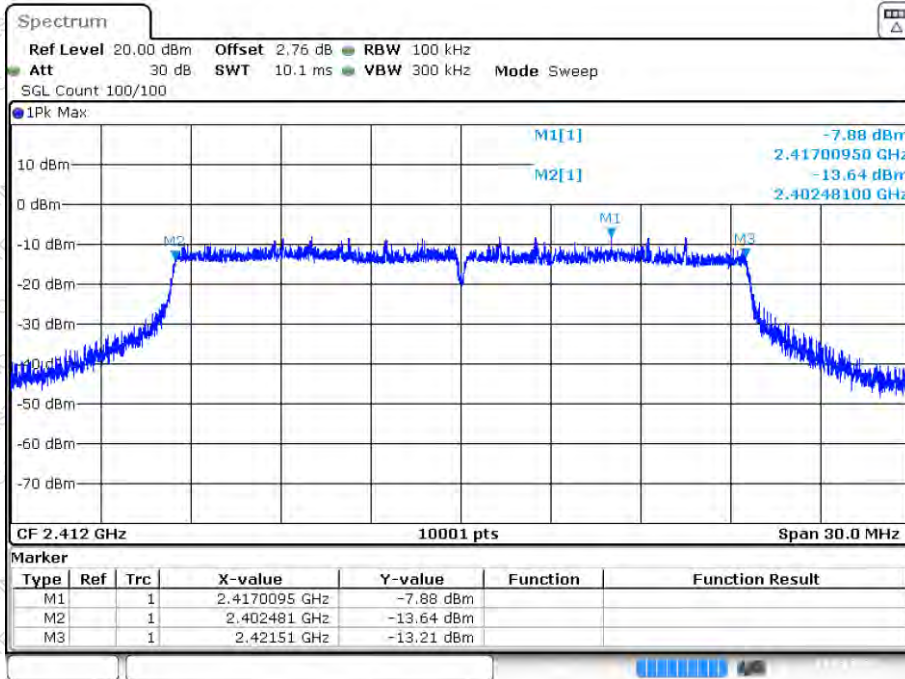


Date: 18.MAR.2024 15:04:14



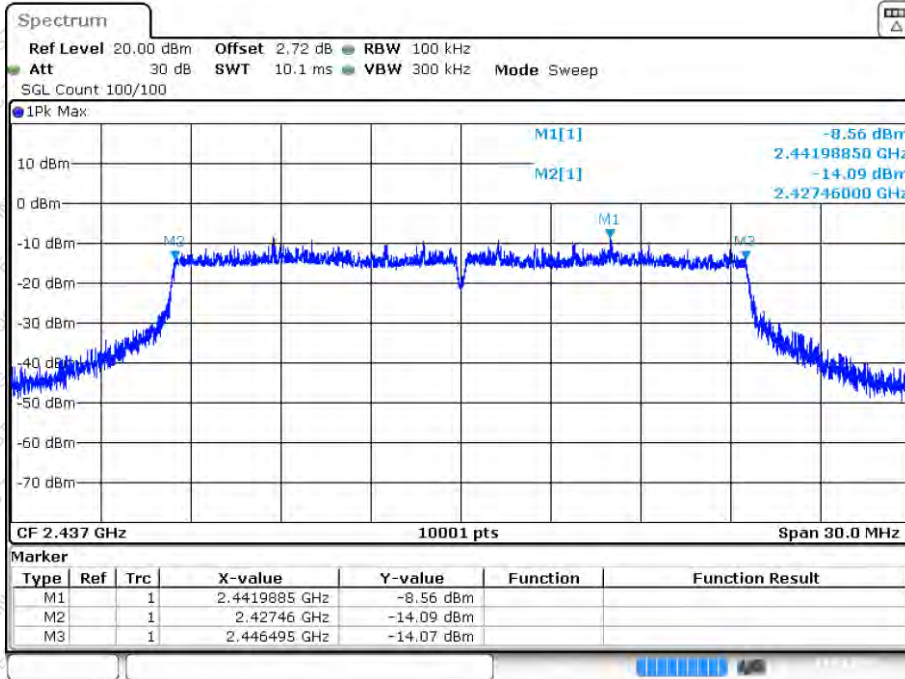


### -6dB Bandwidth NVNT ax20 2412MHz Ant1



Date: 18.MAR.2024 16:00:49

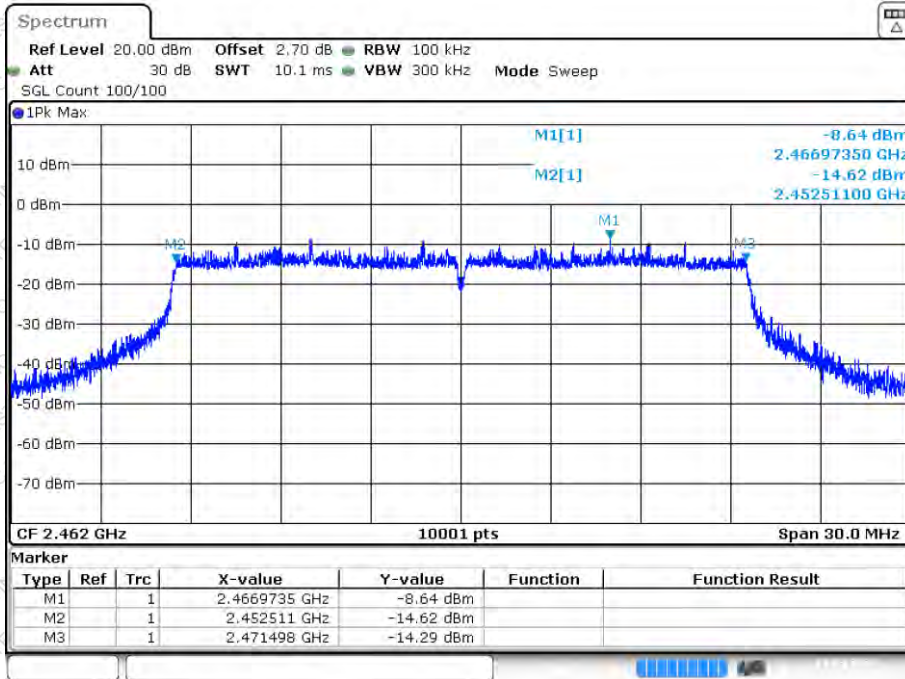
### -6dB Bandwidth NVNT ax20 2437MHz Ant1



Date: 18.MAR.2024 16:02:29

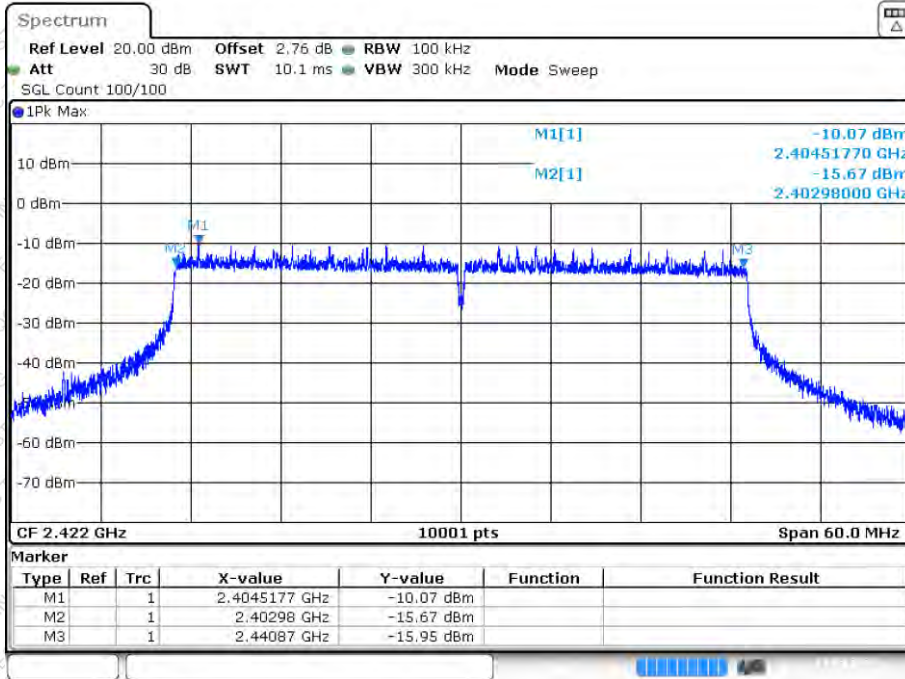


### -6dB Bandwidth NVNT ax20 2462MHz Ant1



Date: 18.MAR.2024 16:09:13

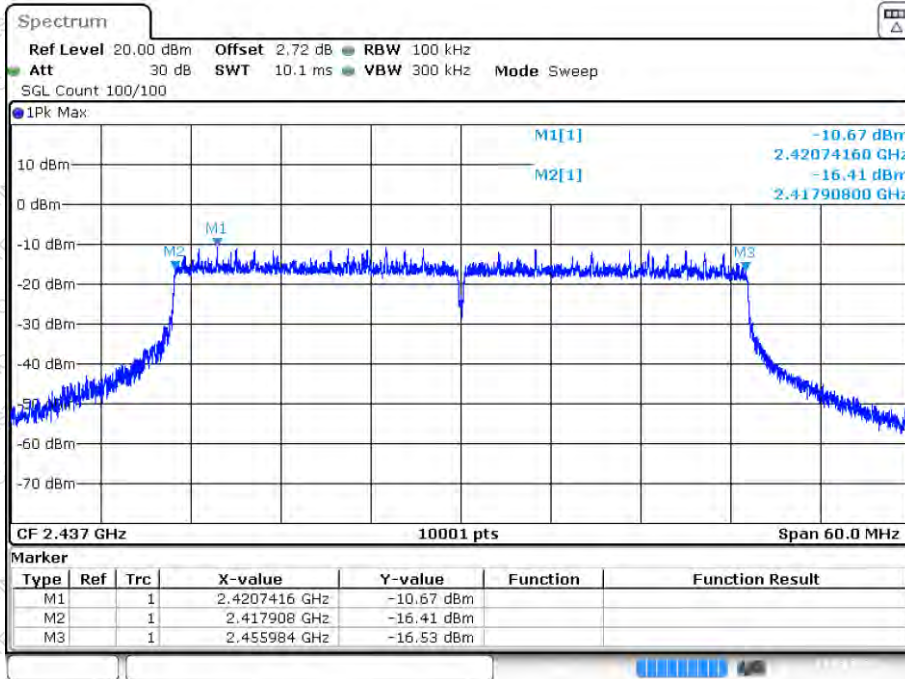
### -6dB Bandwidth NVNT ax40 2422MHz Ant1



Date: 18.MAR.2024 16:14:33

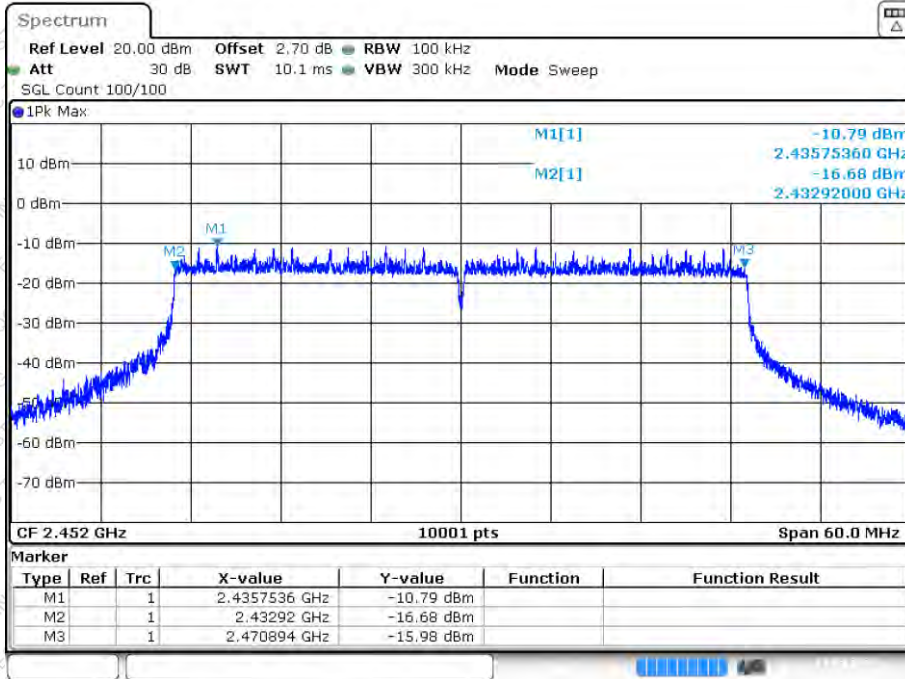


### -6dB Bandwidth NVNT ax40 2437MHz Ant1



Date: 18.MAR.2024 16:17:13

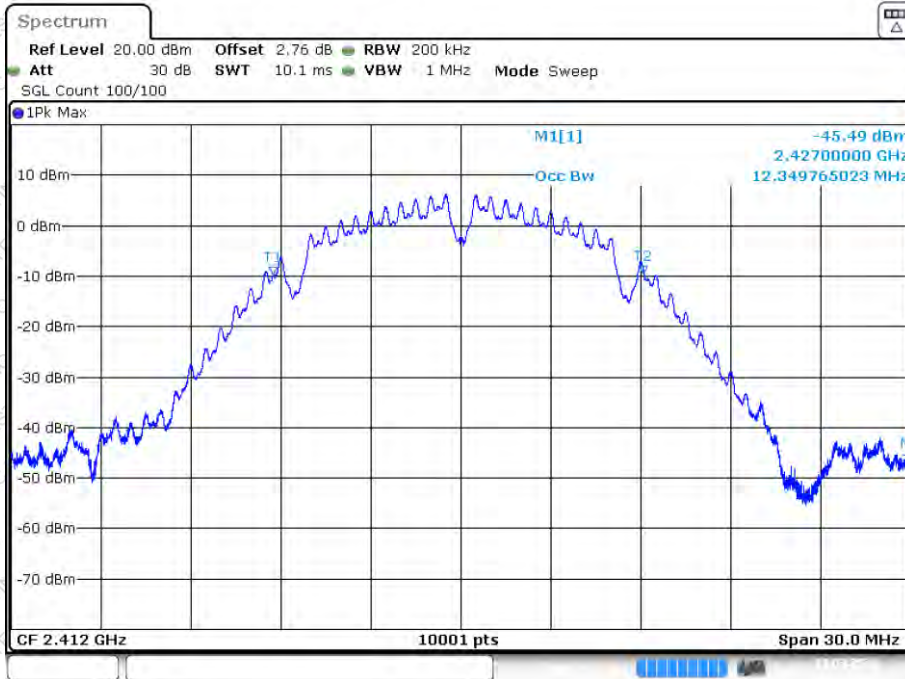
### -6dB Bandwidth NVNT ax40 2452MHz Ant1



Date: 18.MAR.2024 16:19:36

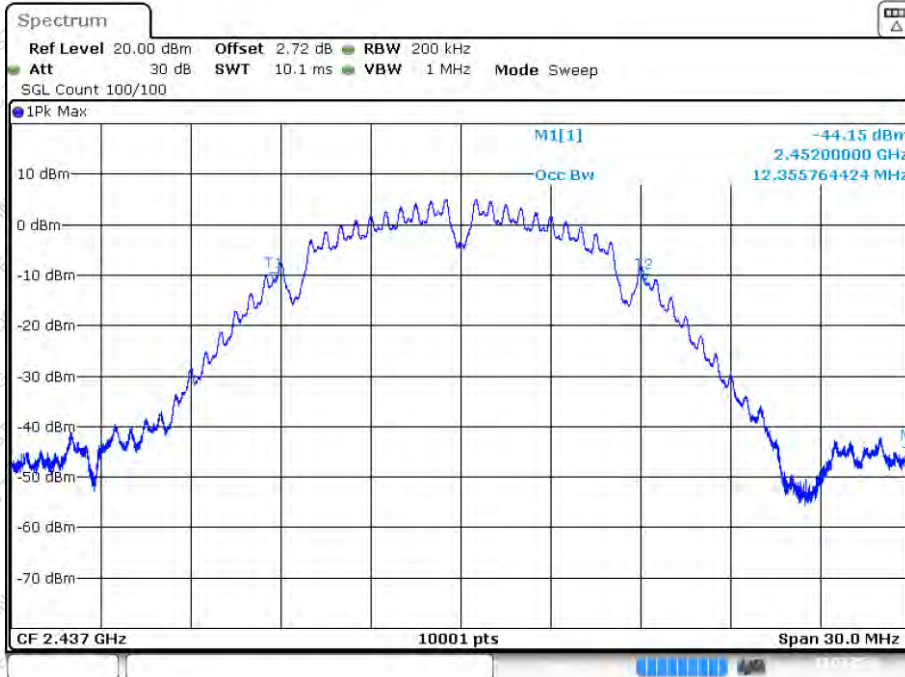


### OBW NVNT b 2412MHz Ant1



Date: 18.MAR.2024 14:41:37

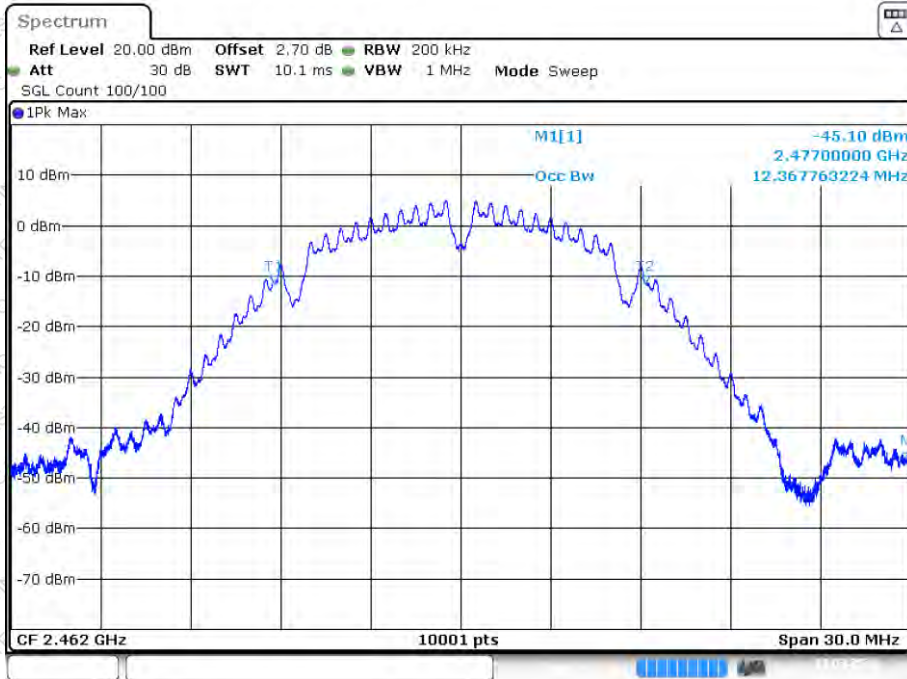
### OBW NVNT b 2437MHz Ant1



Date: 18.MAR.2024 14:42:56

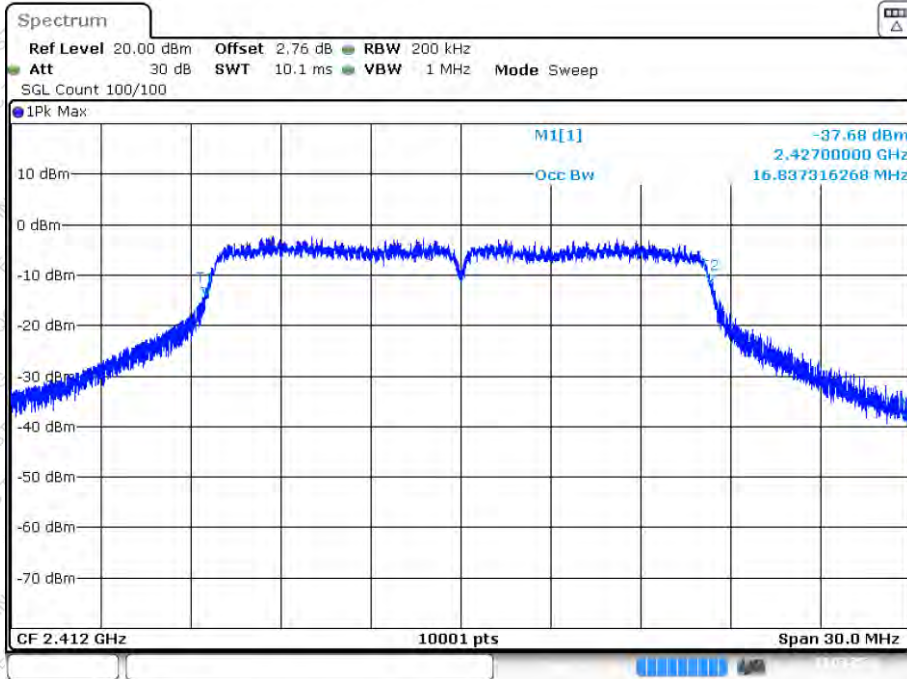


### OBW NVNT b 2462MHz Ant1



Date: 18.MAR.2024 14:44:05

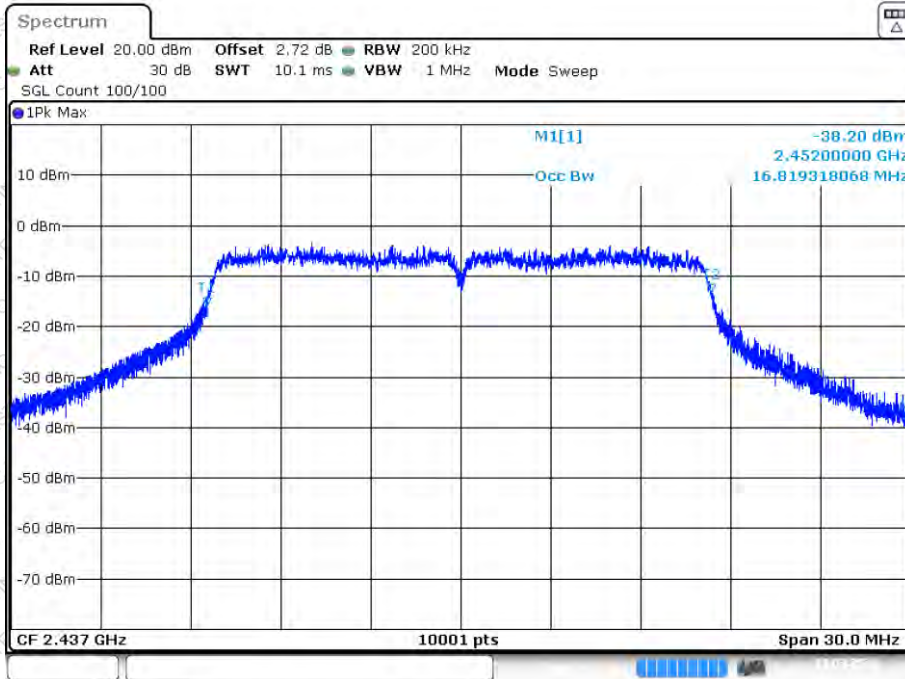
### OBW NVNT g 2412MHz Ant1



Date: 18.MAR.2024 14:48:19

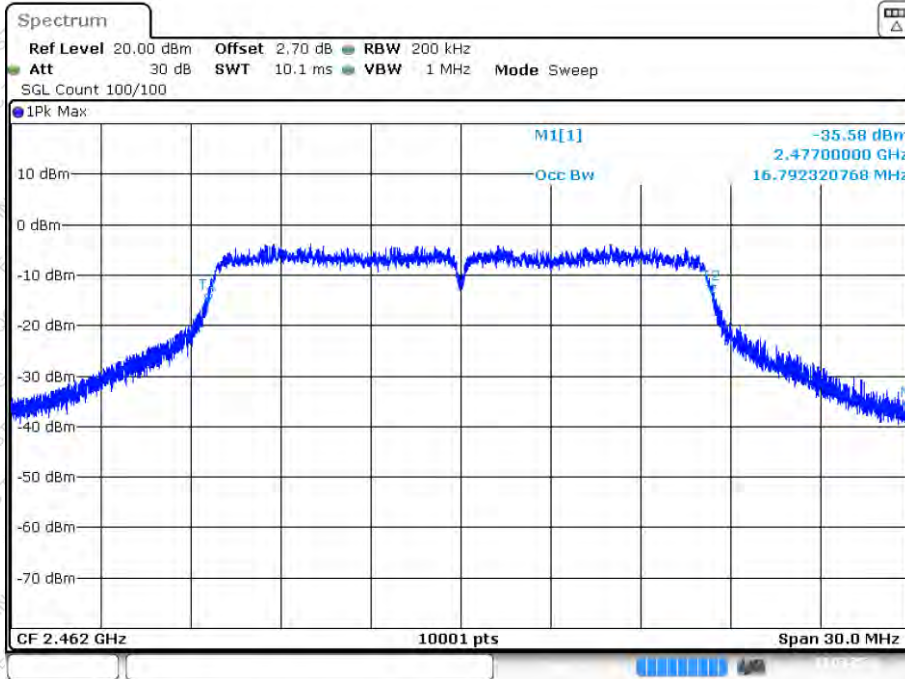


### OBW NVNT g 2437MHz Ant1



Date: 18.MAR.2024 14:50:08

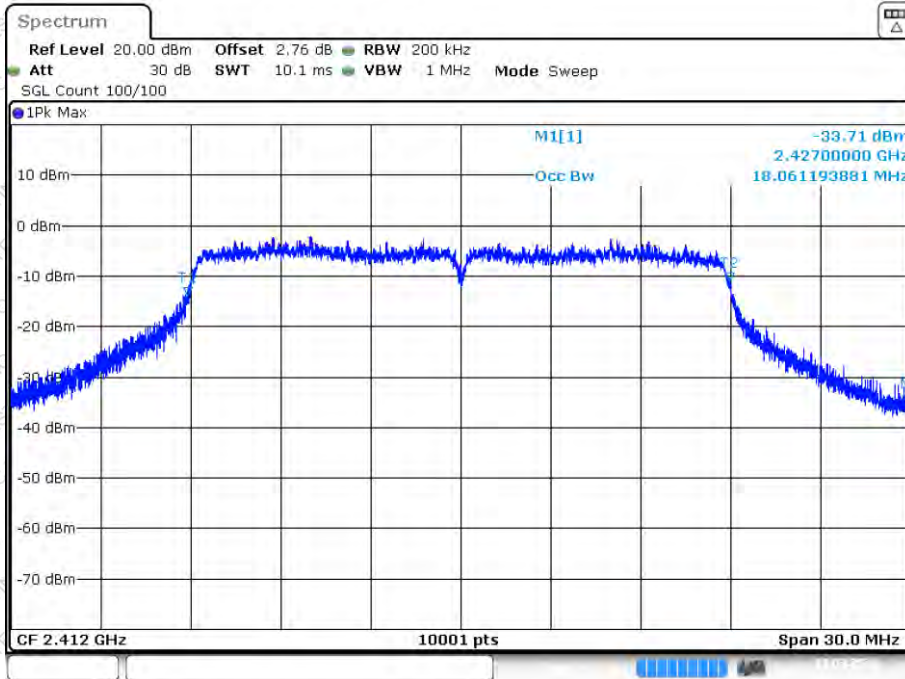
### OBW NVNT g 2462MHz Ant1



Date: 18.MAR.2024 14:51:23

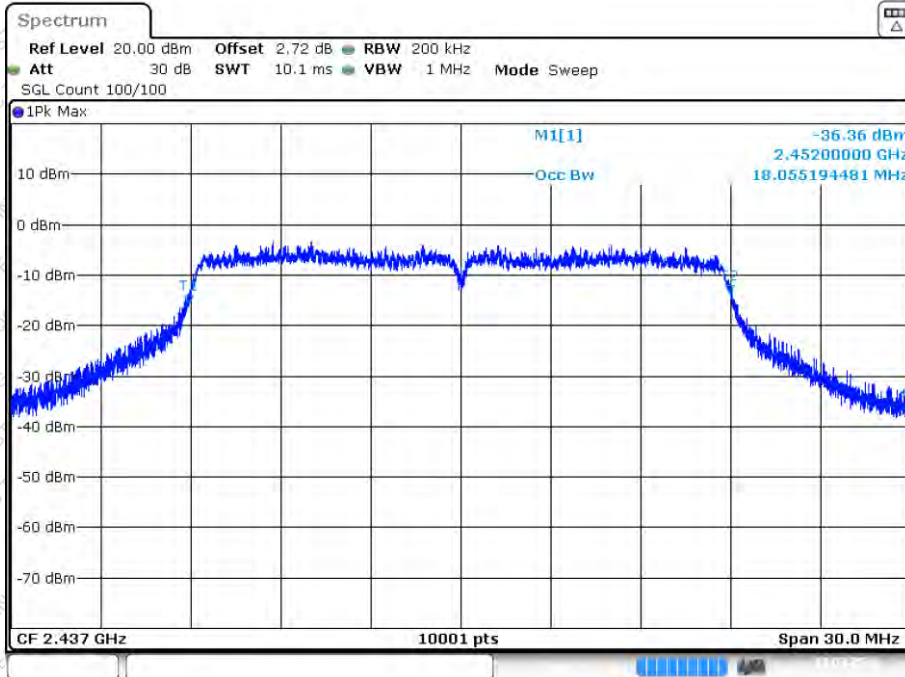


### OBW NVNT n20 2412MHz Ant1



Date: 18.MAR.2024 14:54:03

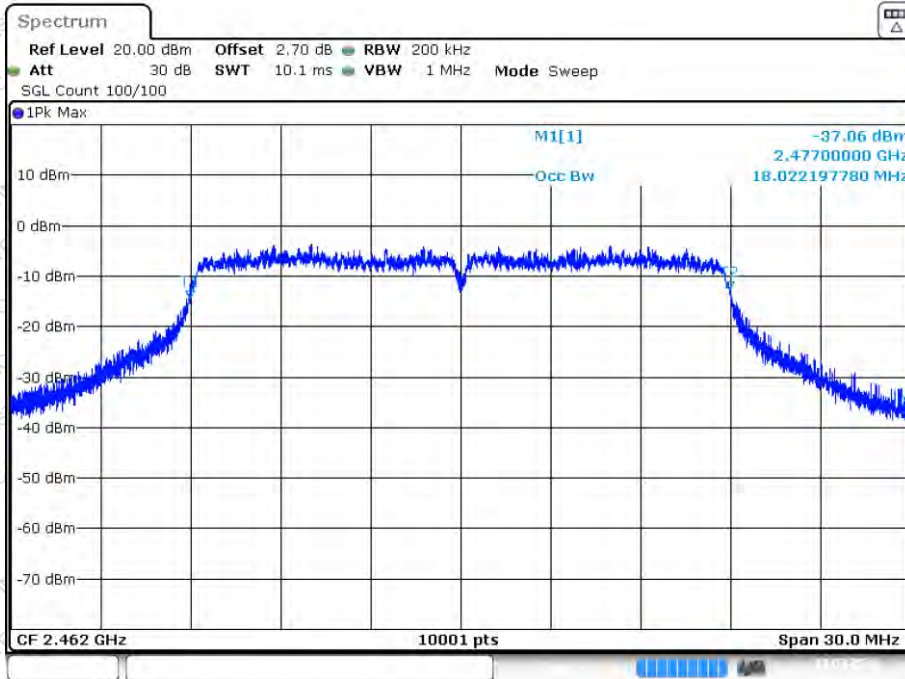
### OBW NVNT n20 2437MHz Ant1



Date: 18.MAR.2024 14:55:19

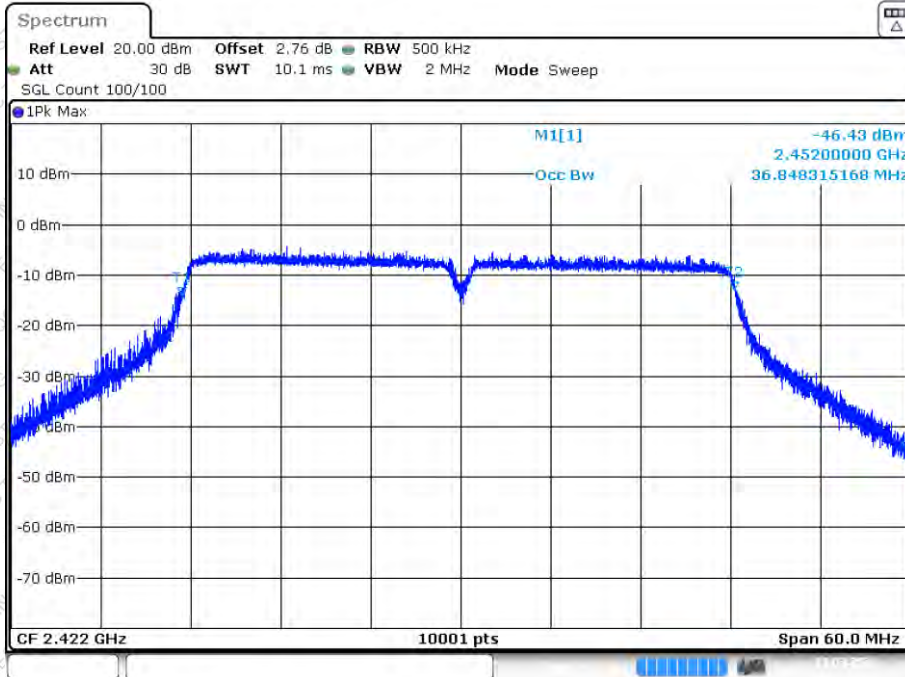


### OBW NVNT n20 2462MHz Ant1



Date: 18.MAR.2024 14:56:25

### OBW NVNT n40 2422MHz Ant1

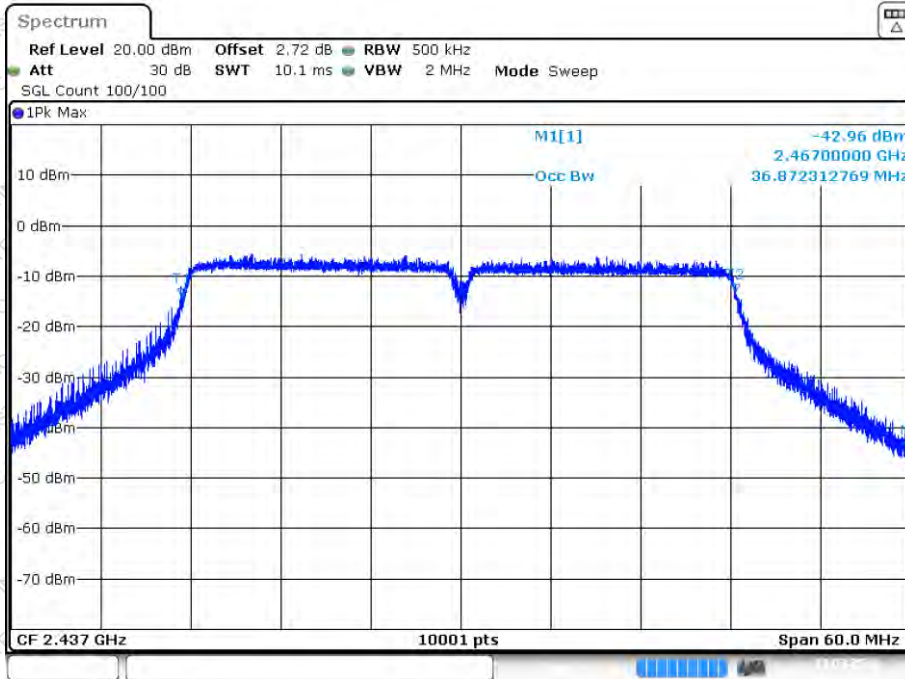


Date: 18.MAR.2024 15:34:06



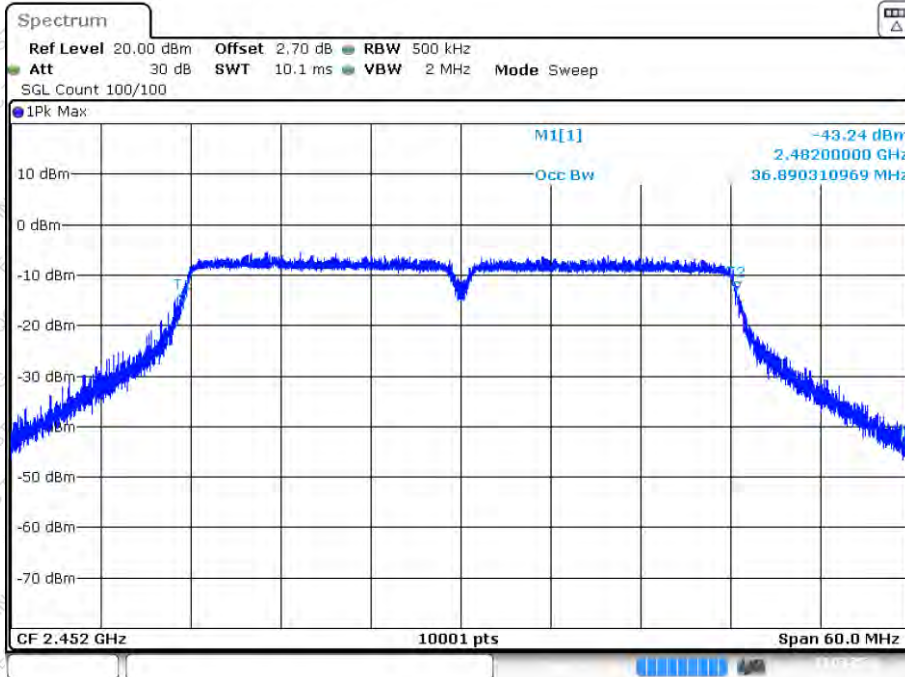


### OBW NVNT n40 2437MHz Ant1



Date: 18.MAR.2024 15:02:43

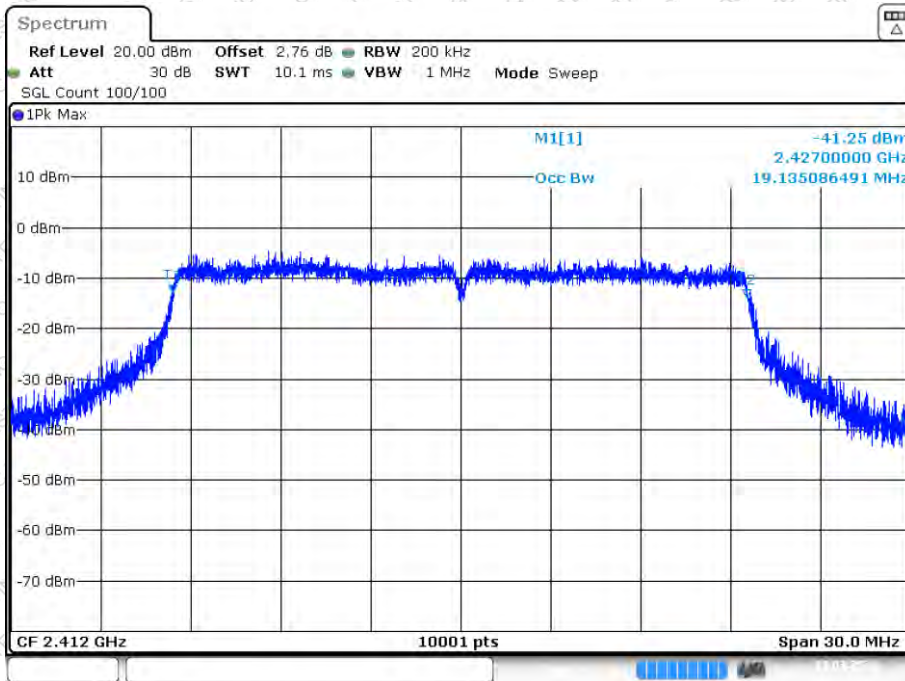
### OBW NVNT n40 2452MHz Ant1



Date: 18.MAR.2024 15:04:05

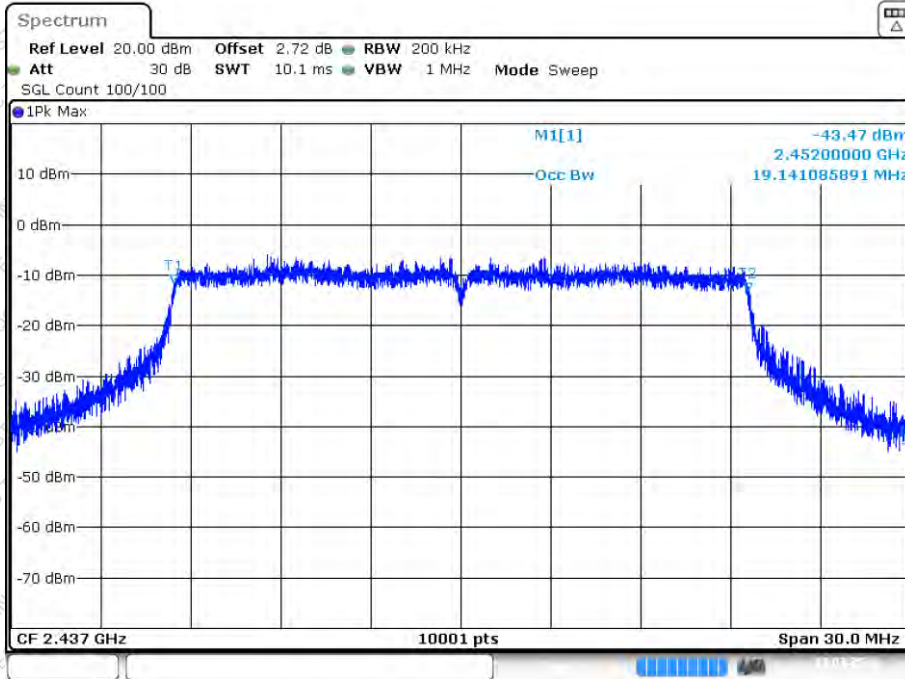


### OBW NVNT ax20 2412MHz Ant1



Date: 18.MAR.2024 16:00:42

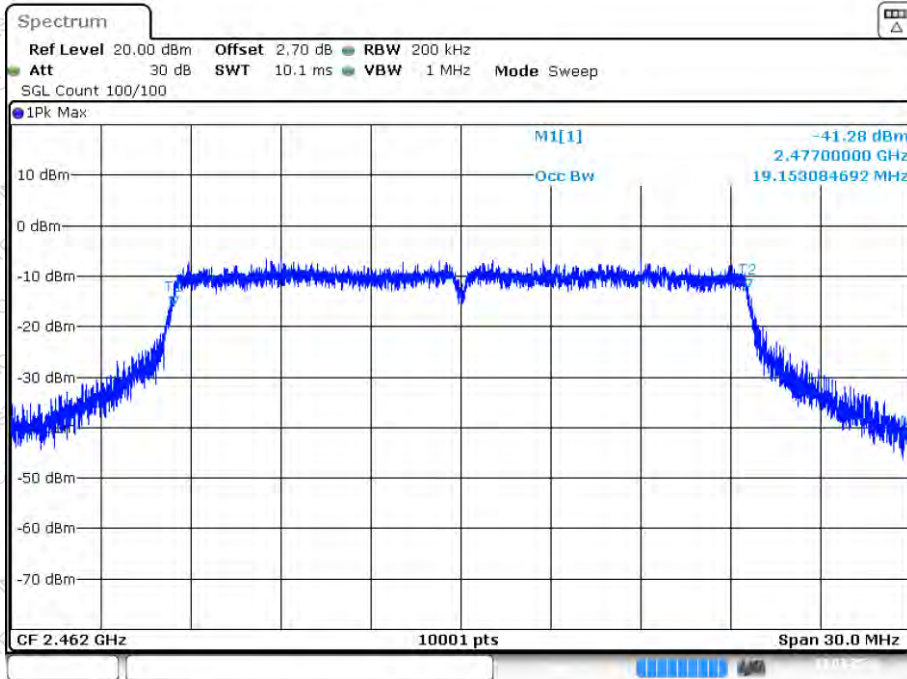
### OBW NVNT ax20 2437MHz Ant1



Date: 18.MAR.2024 16:02:22

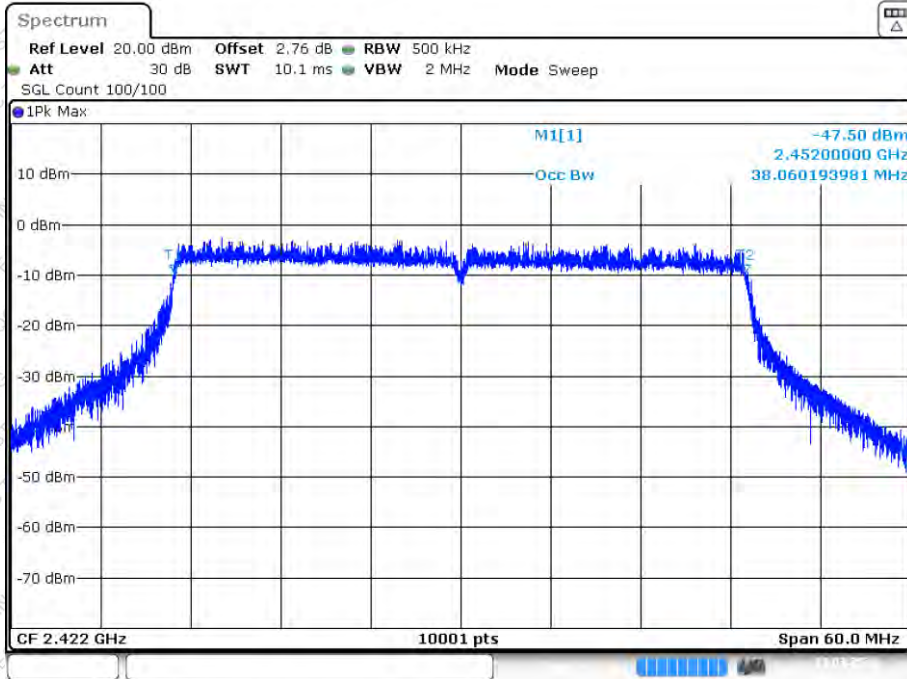


### OBW NVNT ax20 2462MHz Ant1



Date: 18.MAR.2024 16:09:04

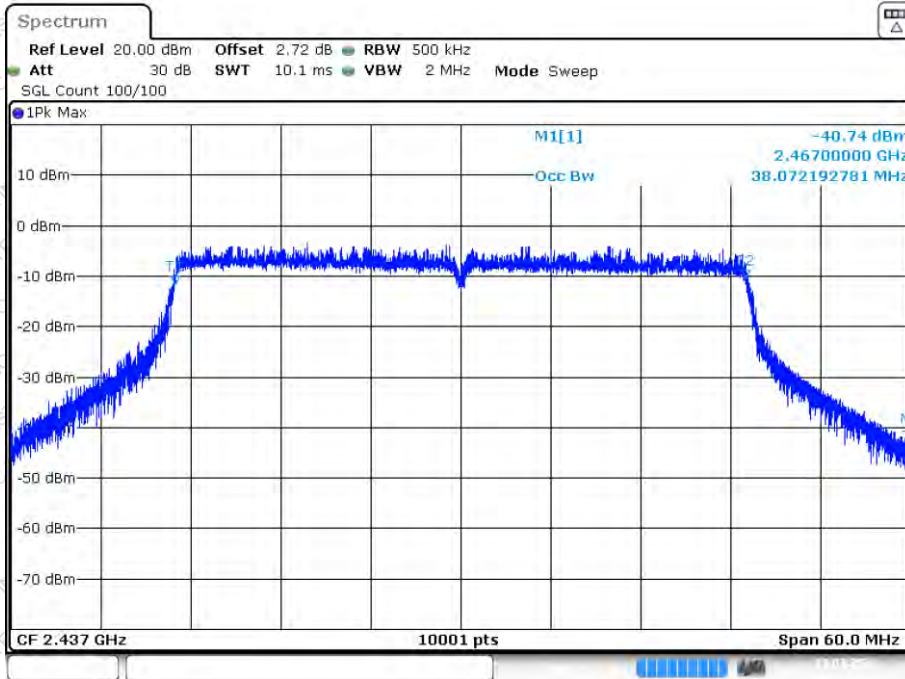
### OBW NVNT ax40 2422MHz Ant1



Date: 18.MAR.2024 16:14:05

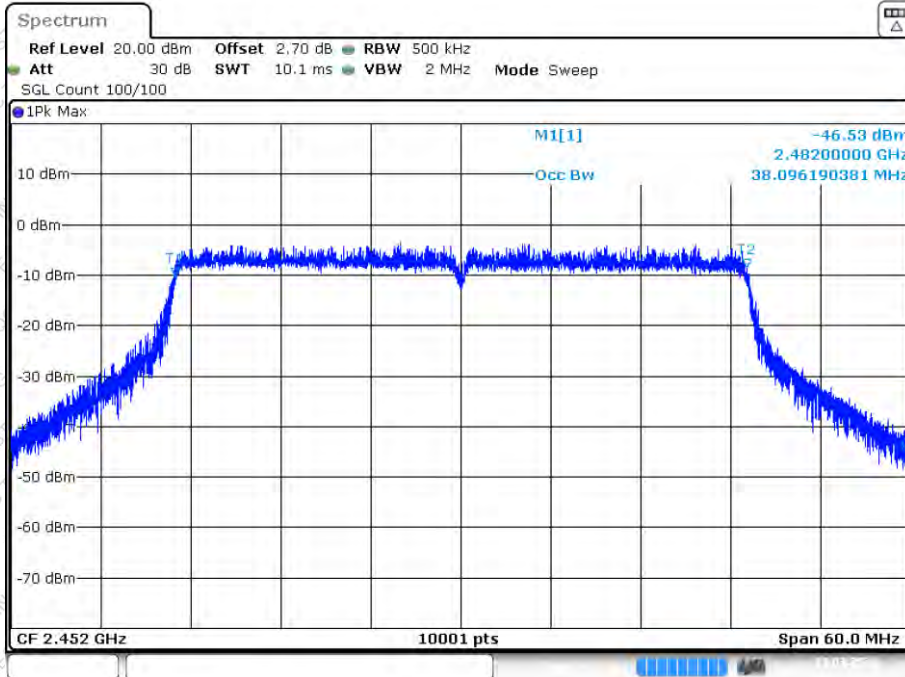


### OBW NVNT ax40 2437MHz Ant1



Date: 18.MAR.2024 16:17:06

### OBW NVNT ax40 2452MHz Ant1



Date: 18.MAR.2024 16:19:28

## 8. Power Spectral Density

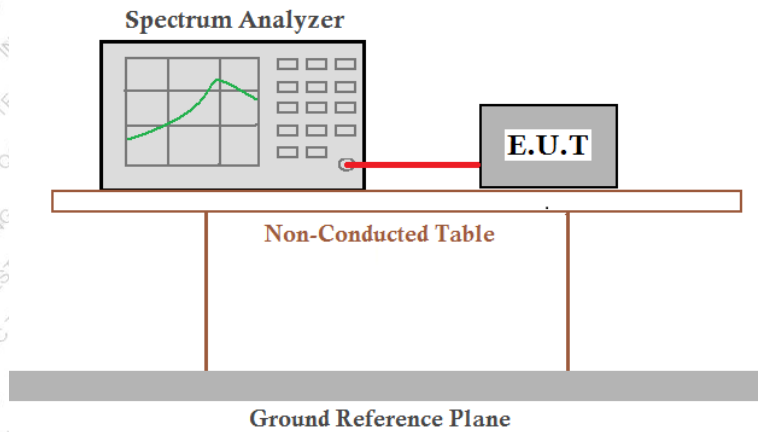
### 8.1 Applicable Standard

FCC Part15 C Section 15.247 (e)

### 8.2 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 8.3 Test setup



### 8.4 Test Procedure

Refer to KDB558074 D01 15.247 Meas Guidance v05r02

### 8.5 Test Data

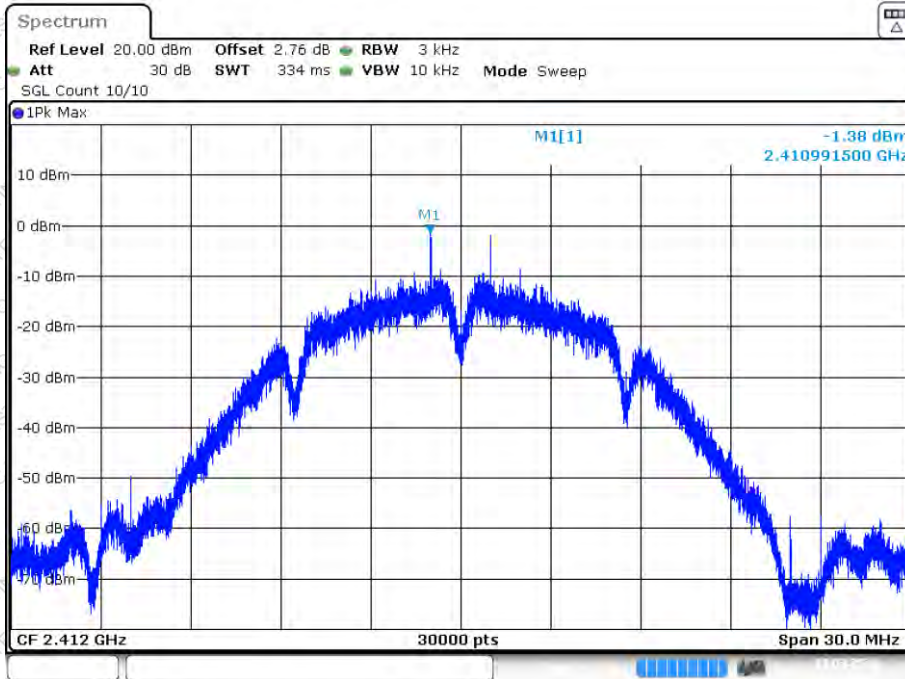
Temperature	26.3 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	2.73dBi
Test by	LBi Li	Test result	PASS

Please refer to following table and plots.

Modulation	Frequency (MHz)	Max PSD (dBm)	Limit (dBm)	Modulation	Frequency (MHz)	Max PSD (dBm)	Limit (dBm)
802.11b	2412	-1.38	8	802.11 n(HT40)	2412	-22.39	8
	2437	-10.69	8		2437	-24.55	8
	2462	-9.01	8		2462	-24.73	8
802.11g	2412	-16.05	8	802.11 ax(HE20)	2422	-21.84	8
	2437	-19.05	8		2437	-23.56	8
	2462	-18.58	8		2452	-23.47	8
802.11 n(HT20)	2412	-17.61	8	802.11 ax(HE40)	2422	-23.62	8
	2437	-19.18	8		2437	-24.61	8
	2462	-18.75	8		2452	-24.55	8

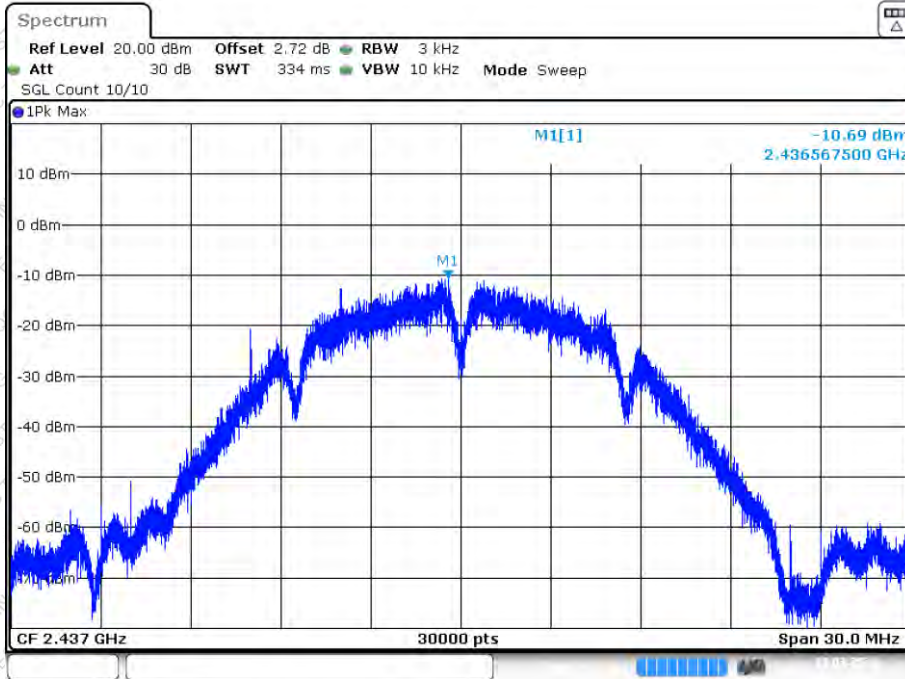


### PSD NVNT b 2412MHz Ant1



Date: 18.MAR.2024 14:41:51

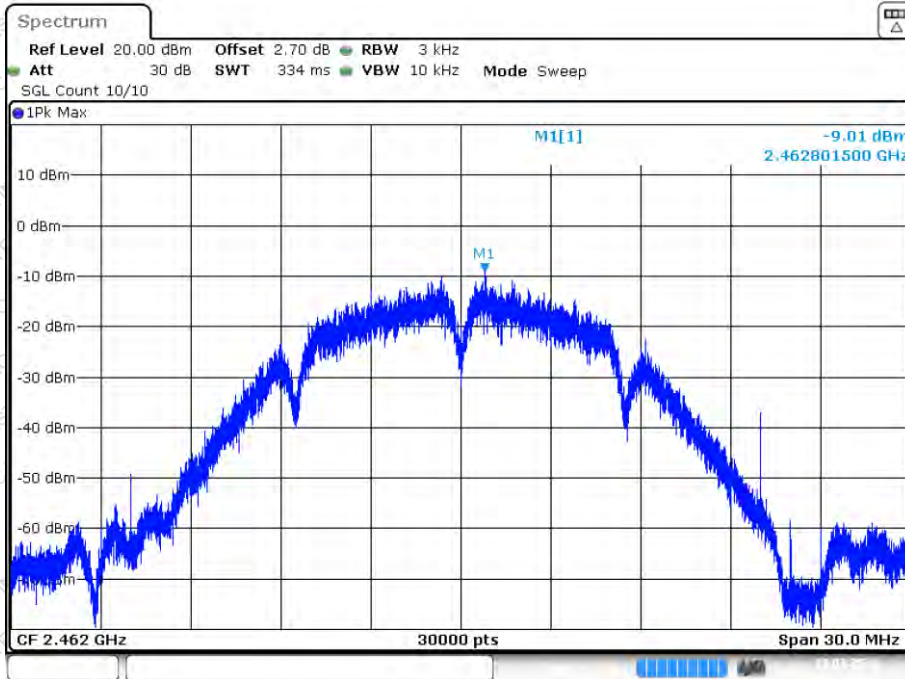
### PSD NVNT b 2437MHz Ant1



Date: 18.MAR.2024 14:43:12

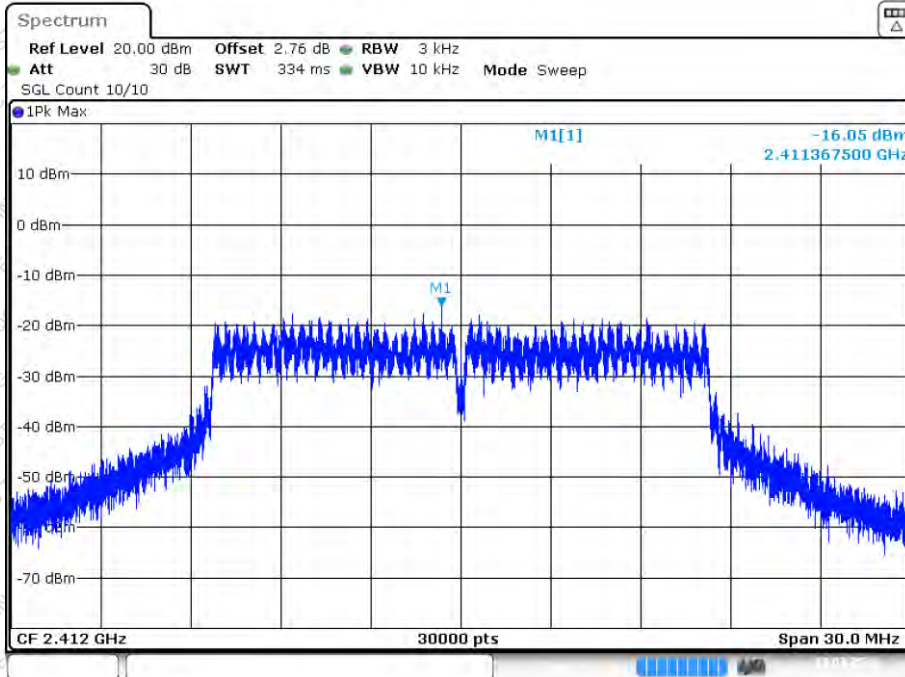


### PSD NVNT b 2462MHz Ant1



Date: 18.MAR.2024 14:44:21

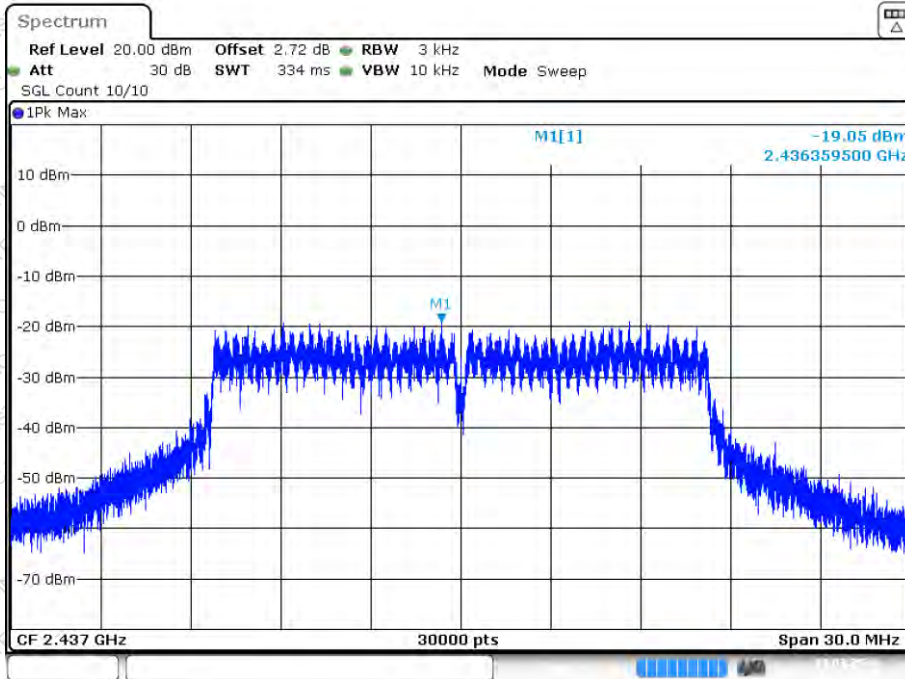
### PSD NVNT g 2412MHz Ant1



Date: 18.MAR.2024 14:48:35

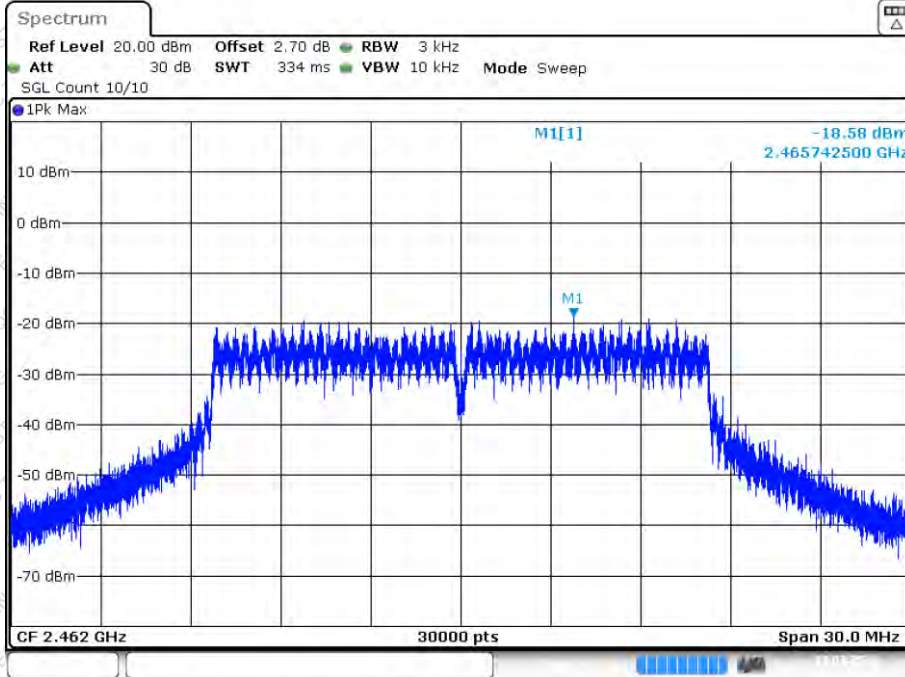


### PSD NVNT g 2437MHz Ant1



Date: 18.MAR.2024 14:50:24

### PSD NVNT g 2462MHz Ant1

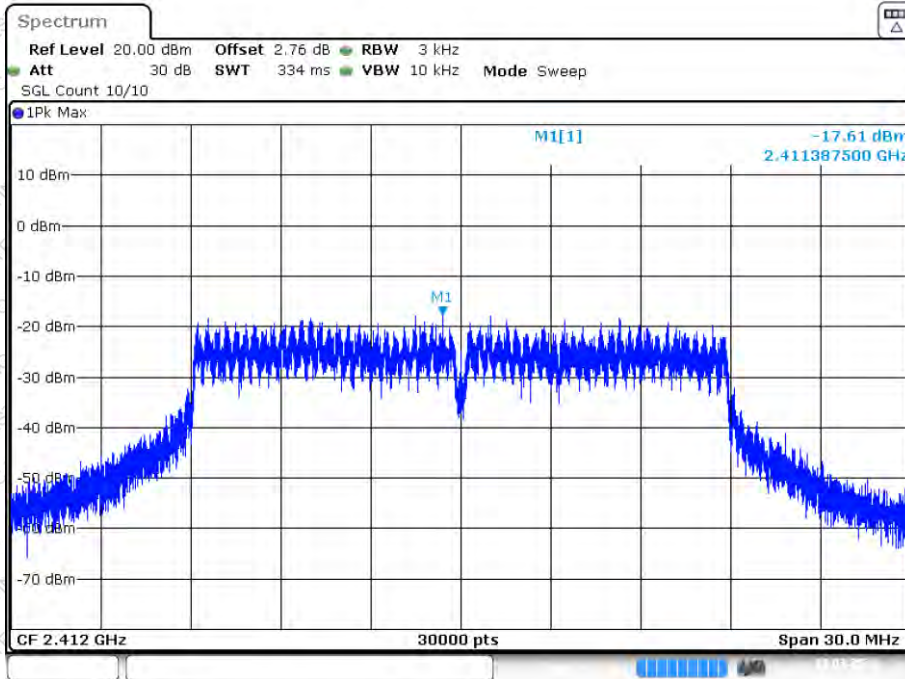


Date: 18.MAR.2024 14:51:41



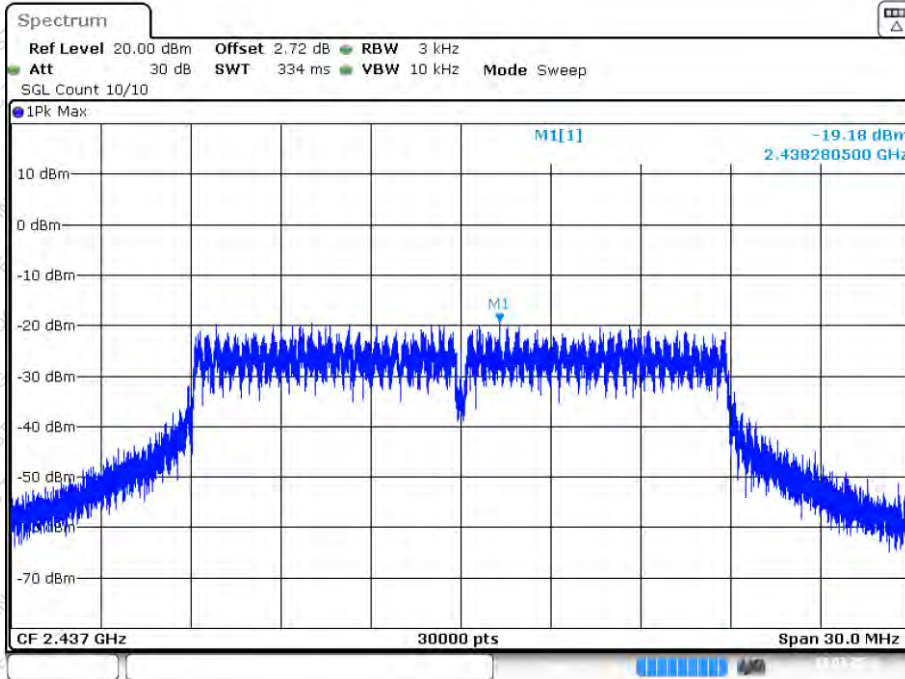


### PSD NVNT n20 2412MHz Ant1



Date: 18.MAR.2024 14:54:24

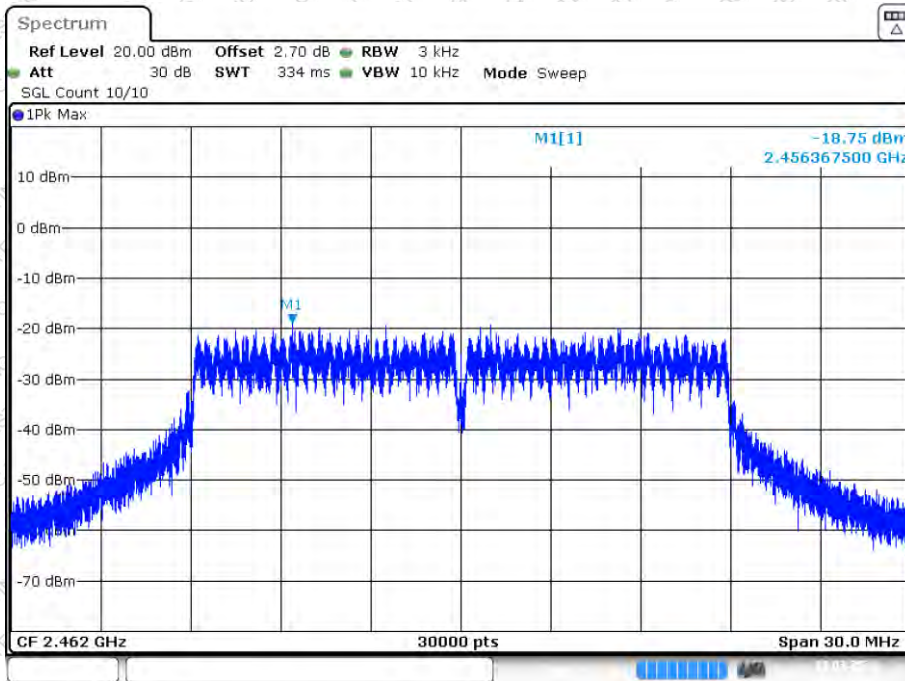
### PSD NVNT n20 2437MHz Ant1



Date: 18.MAR.2024 14:55:38

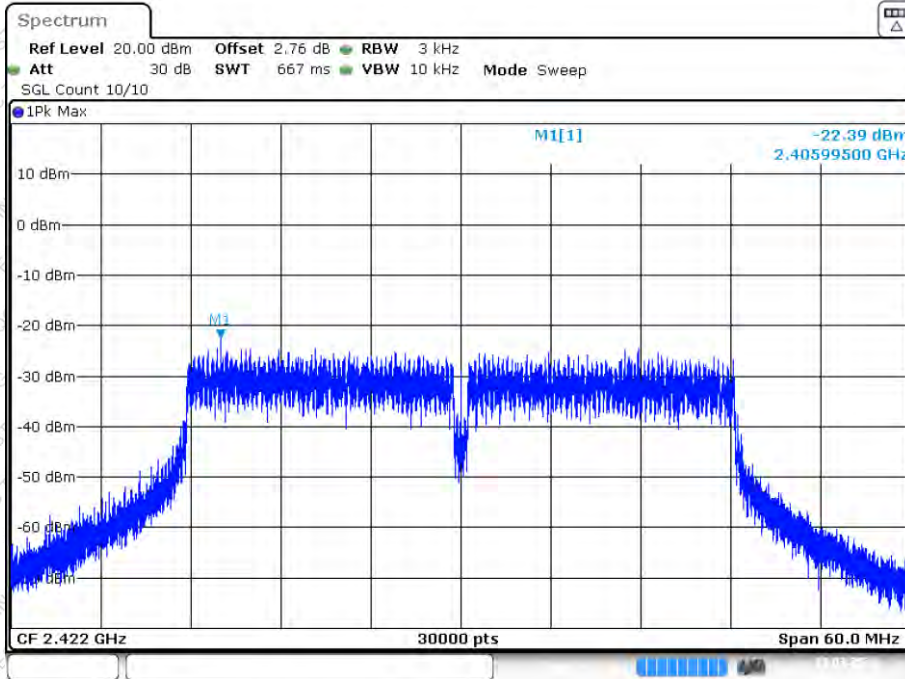


### PSD NVNT n20 2462MHz Ant1



Date: 18.MAR.2024 14:56:44

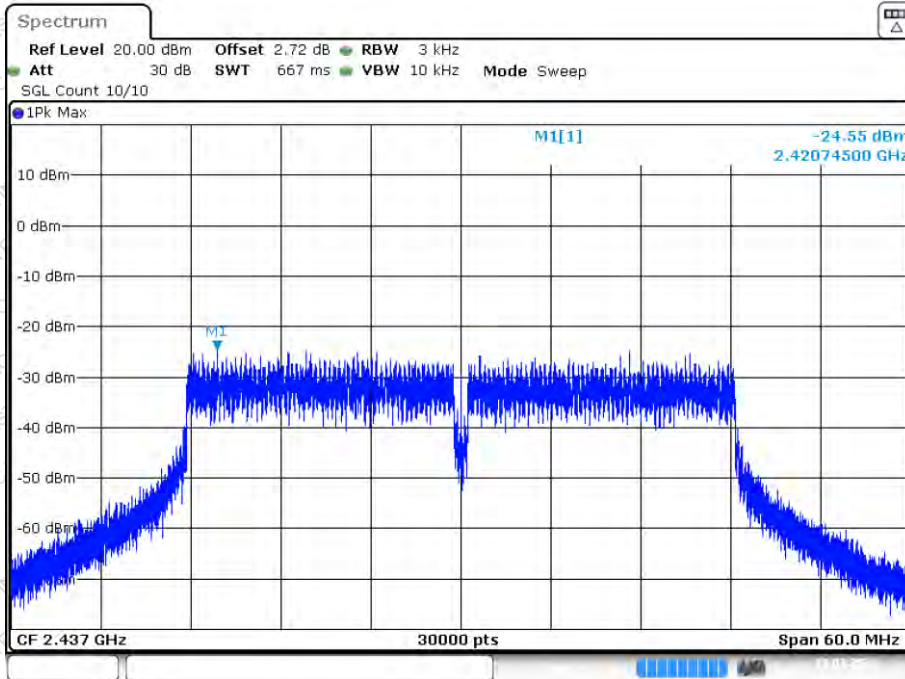
### PSD NVNT n40 2422MHz Ant1



Date: 18.MAR.2024 15:34:41

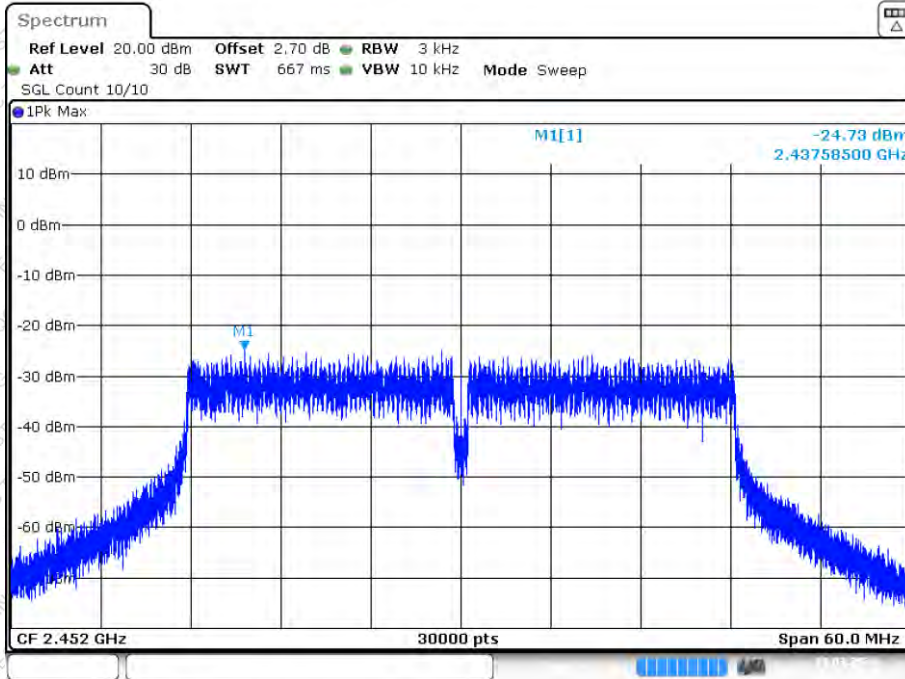


### PSD NVNT n40 2437MHz Ant1



Date: 18.MAR.2024 15:03:07

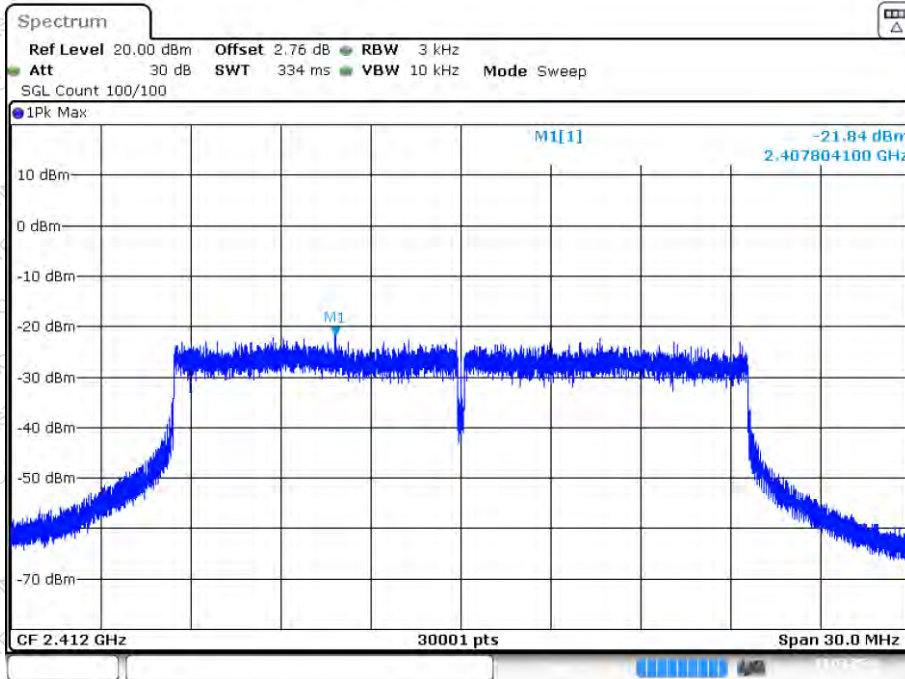
### PSD NVNT n40 2452MHz Ant1



Date: 18.MAR.2024 15:04:29

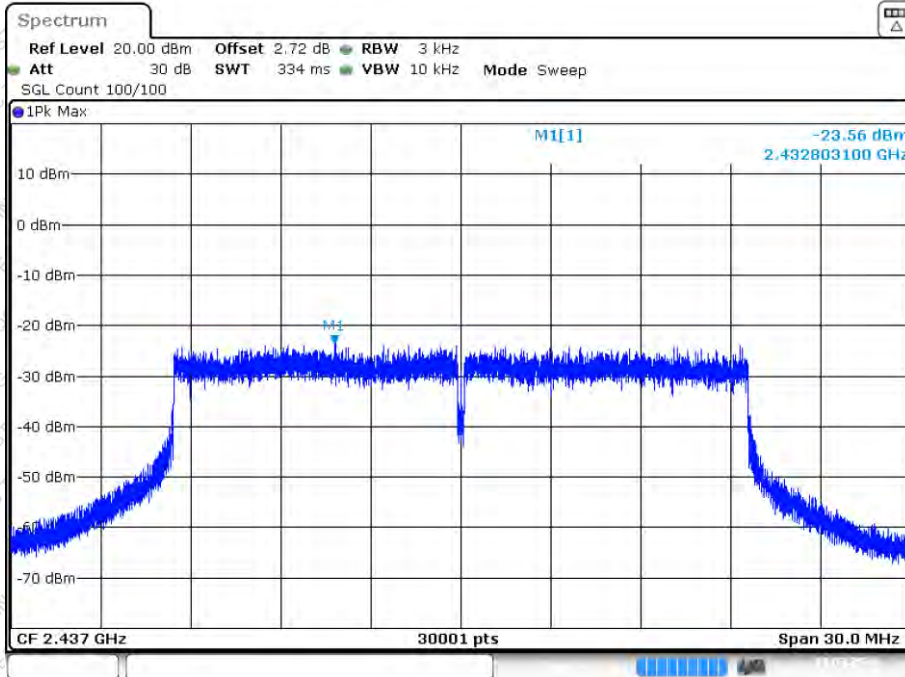


### PSD NVNT ax20 2412MHz Ant1



Date: 18.MAR.2024 17:45:47

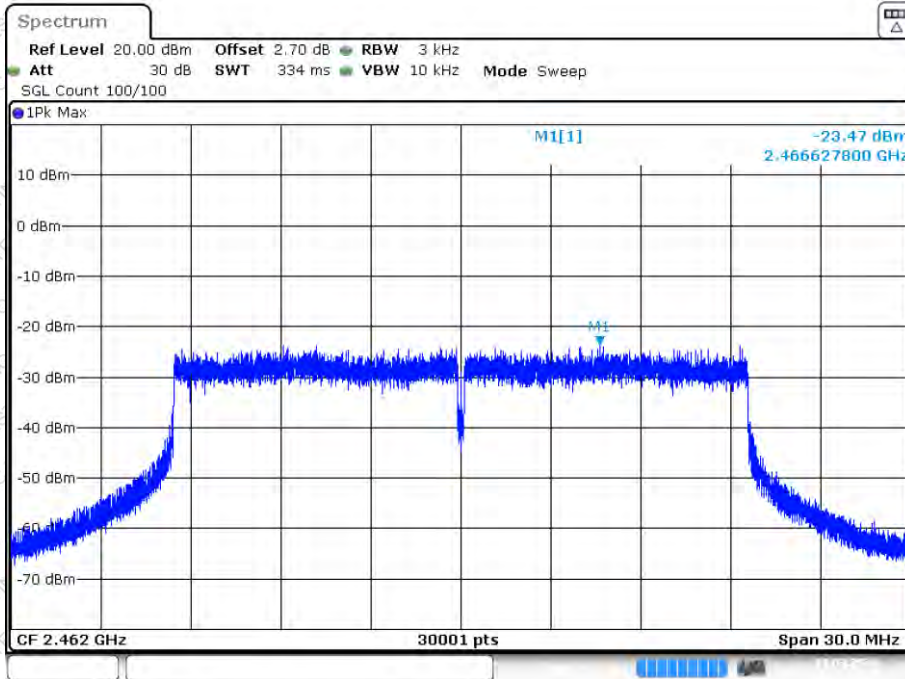
### PSD NVNT ax20 2437MHz Ant1



Date: 18.MAR.2024 17:47:19

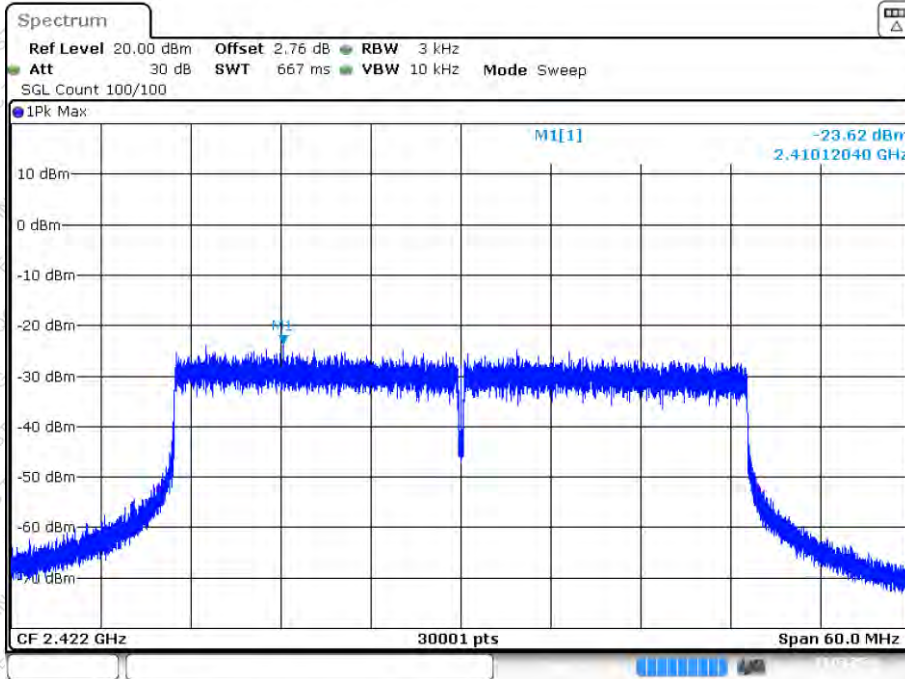


### PSD NVNT ax20 2462MHz Ant1



Date: 18.MAR.2024 17:48:09

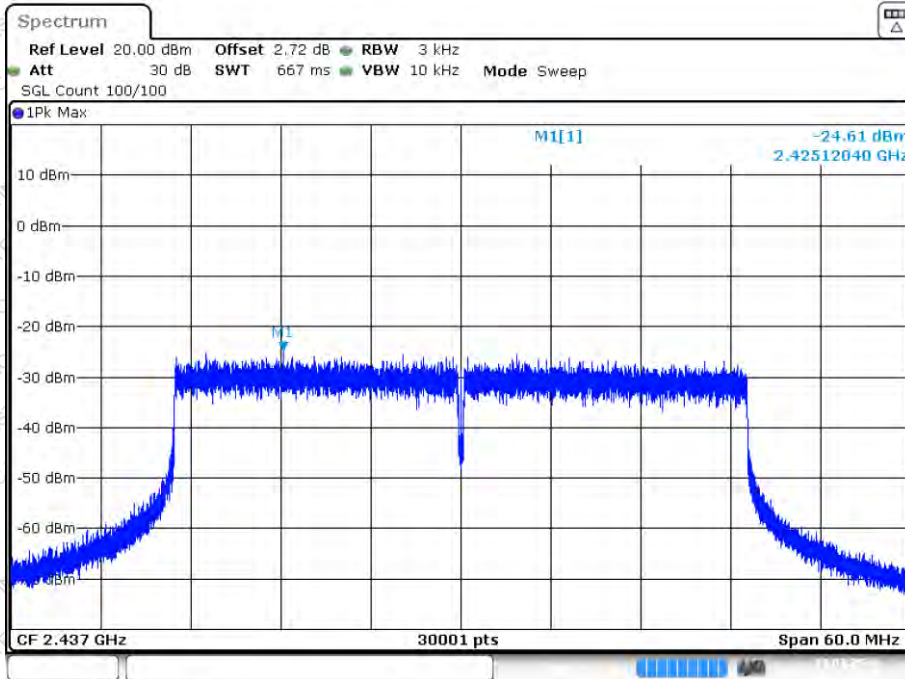
### PSD NVNT ax40 2422MHz Ant1



Date: 18.MAR.2024 17:51:28

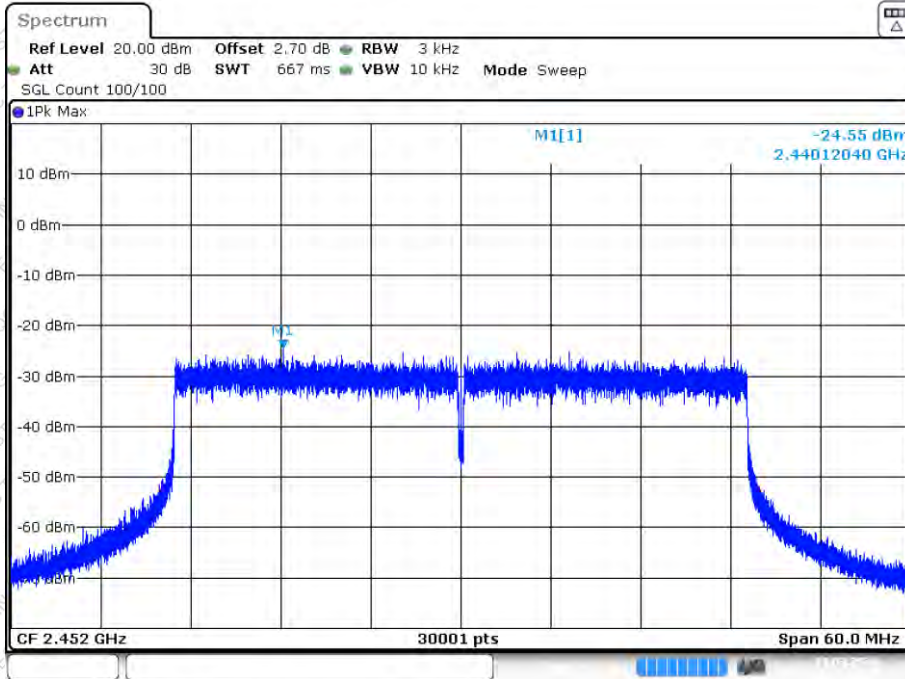


### PSD NVNT ax40 2437MHz Ant1



Date: 18.MAR.2024 17:52:58

### PSD NVNT ax40 2452MHz Ant1



Date: 18.MAR.2024 17:54:29

## 9. Spurious Emission in Non-restricted & restricted Bands

### 9.1 Conducted Emission Method

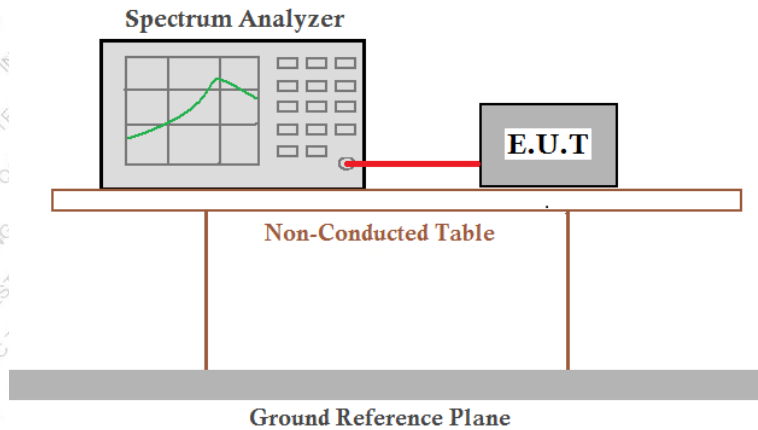
#### 9.1.1 Applicable Standard

FCC Part15 C Section 15.247 (d)

#### 9.1.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

#### 9.1.3 Test setup



#### 9.1.4 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 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.

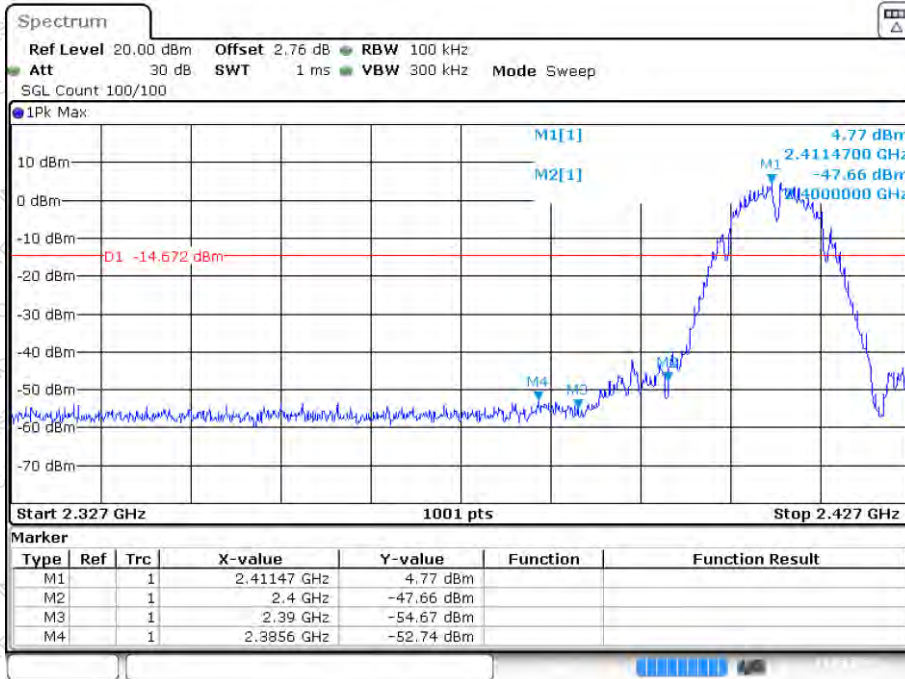
#### 9.1.5 Test Data

Temperature	26.3 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	2.73dBi
Test by	LBi Li	Test result	PASS

Please refer to following plots.

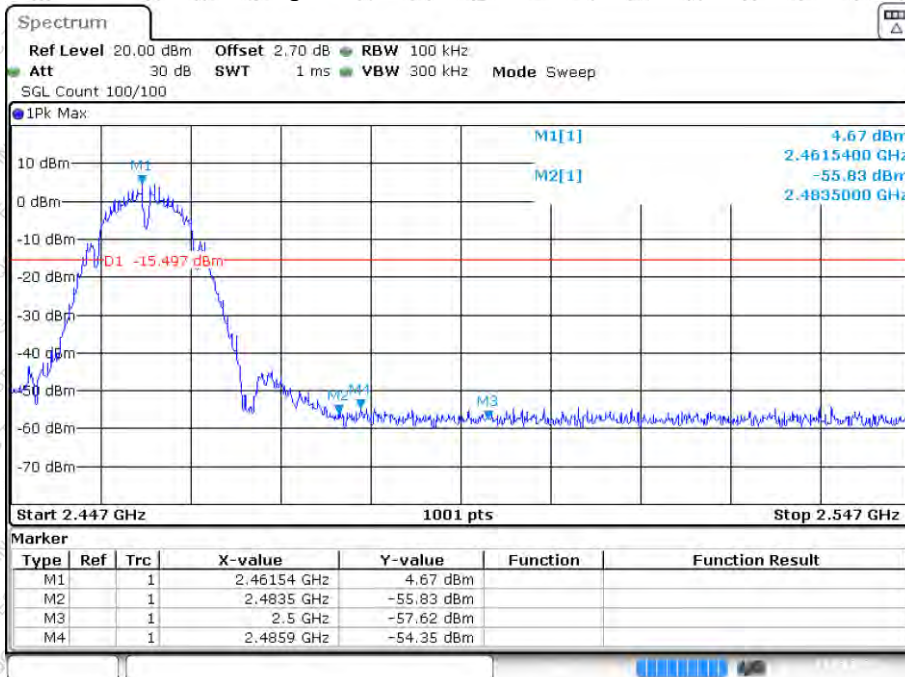


Band Edge NVNT b 2412MHz Ant1 Emission



Date: 18.MAR.2024 14:41:57

Band Edge NVNT b 2462MHz Ant1 Emission

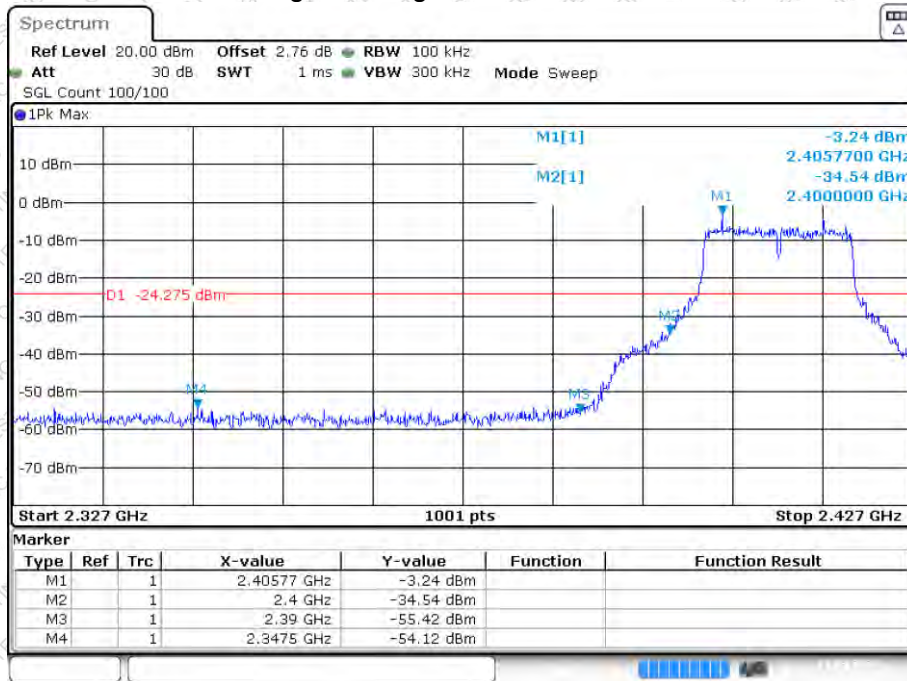


Date: 18.MAR.2024 14:44:27



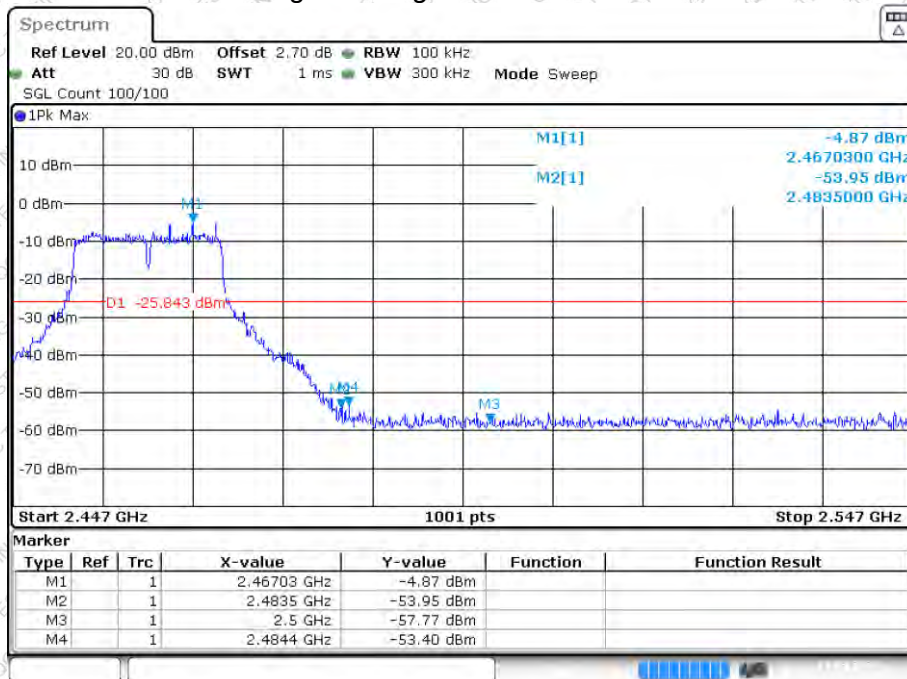


### Band Edge NVNT g 2412MHz Ant1 Emission



Date: 18.MAR.2024 14:48:42

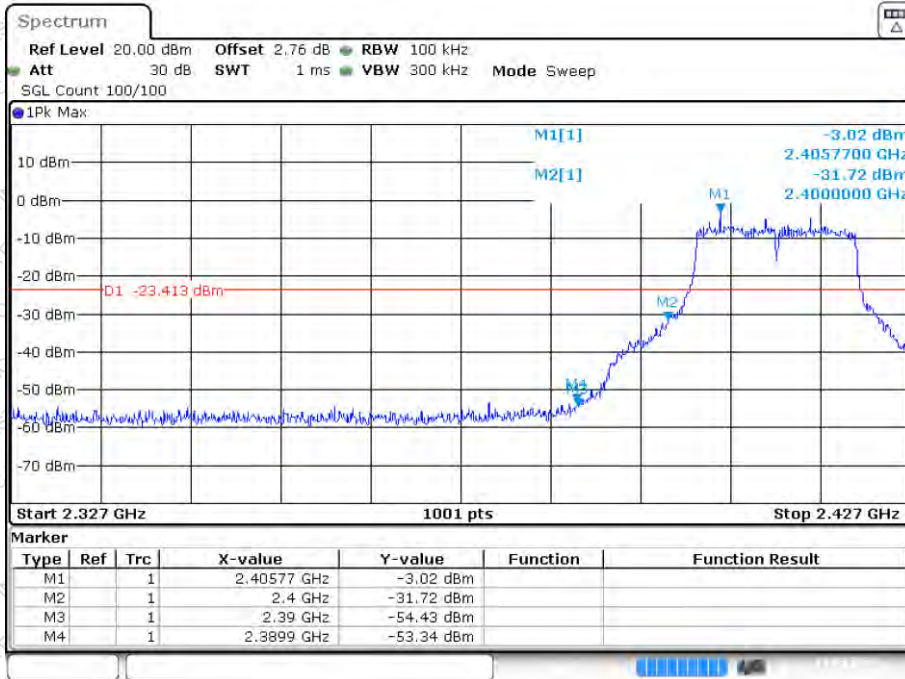
### Band Edge NVNT g 2462MHz Ant1 Emission



Date: 18.MAR.2024 14:51:48

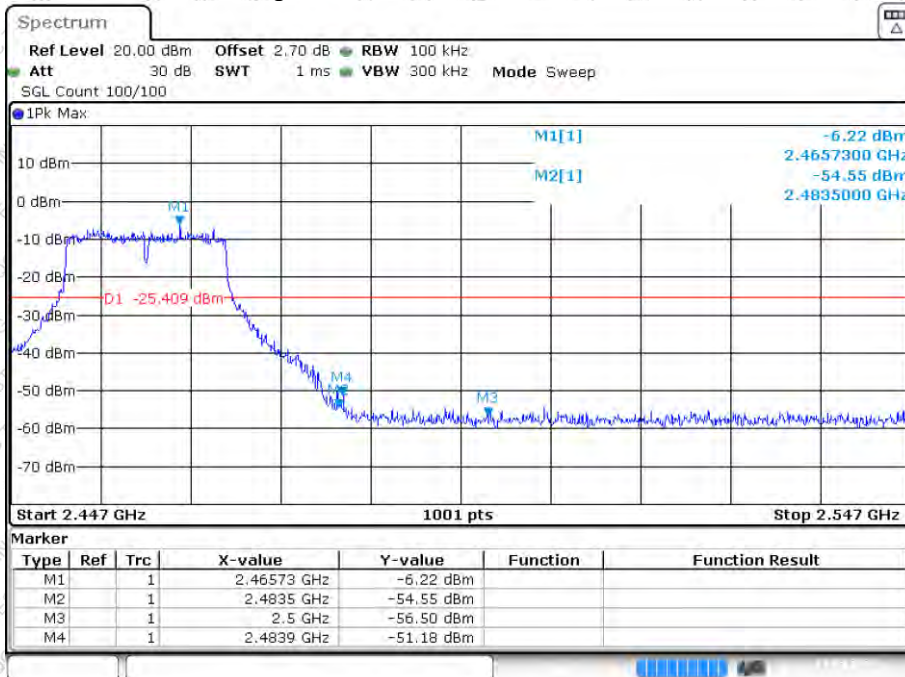


### Band Edge NVNT n20 2412MHz Ant1 Emission



Date: 18.MAR.2024 14:54:31

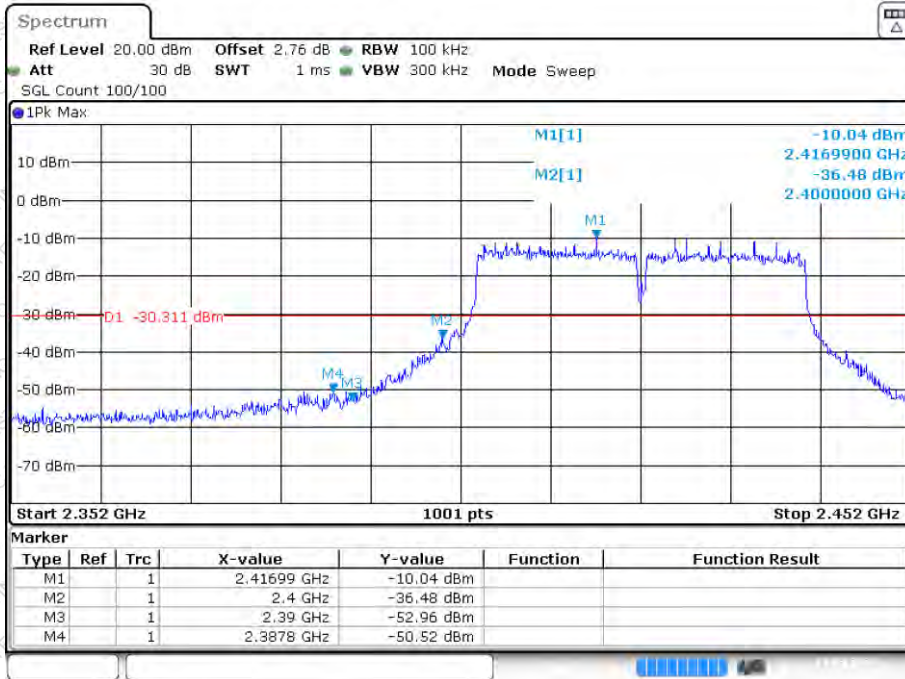
### Band Edge NVNT n20 2462MHz Ant1 Emission



Date: 18.MAR.2024 14:56:52

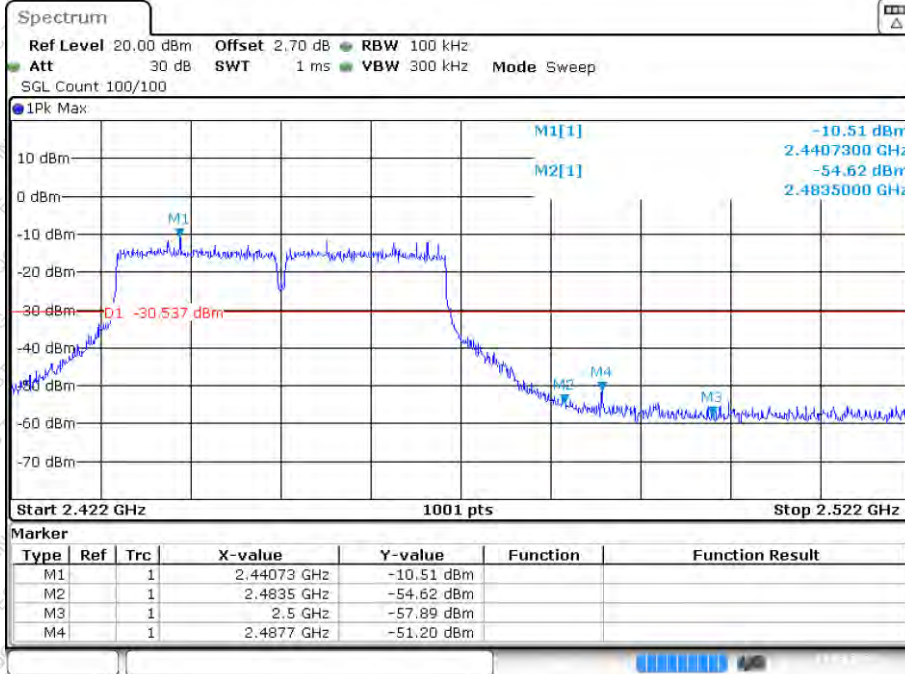


### Band Edge NVNT n40 2422MHz Ant1 Emission



Date: 18.MAR.2024 15:34:52

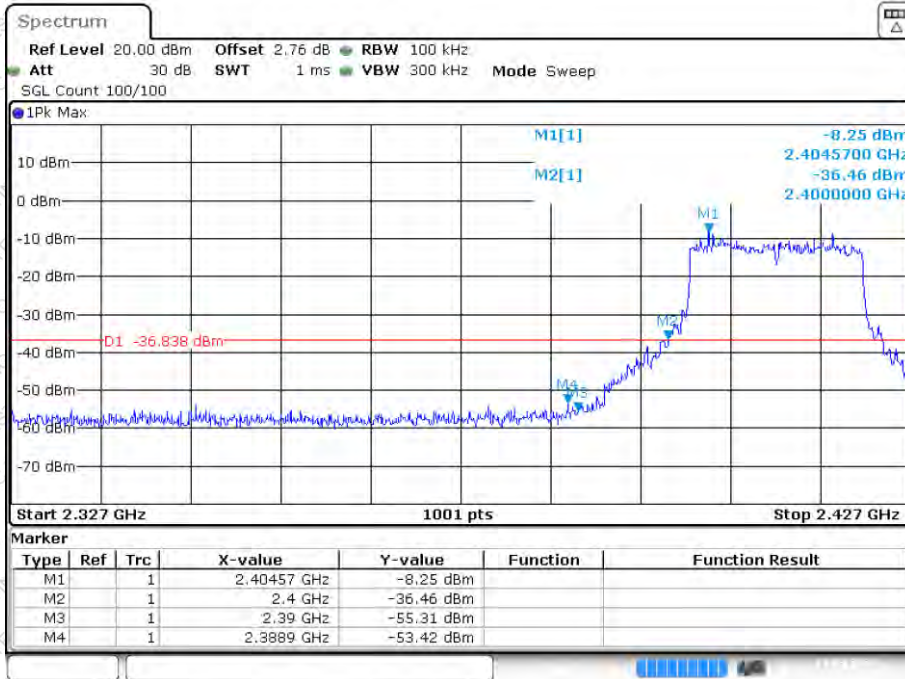
### Band Edge NVNT n40 2452MHz Ant1 Emission



Date: 18.MAR.2024 15:04:37

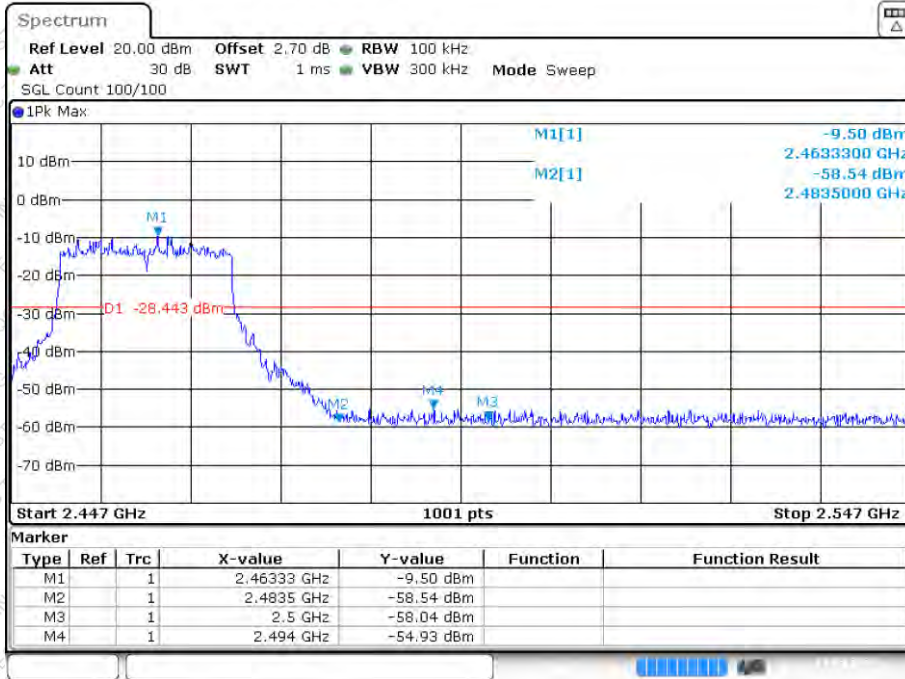


### Band Edge NVNT ax20 2412MHz Ant1 Emission



Date: 18.MAR.2024 16:01:38

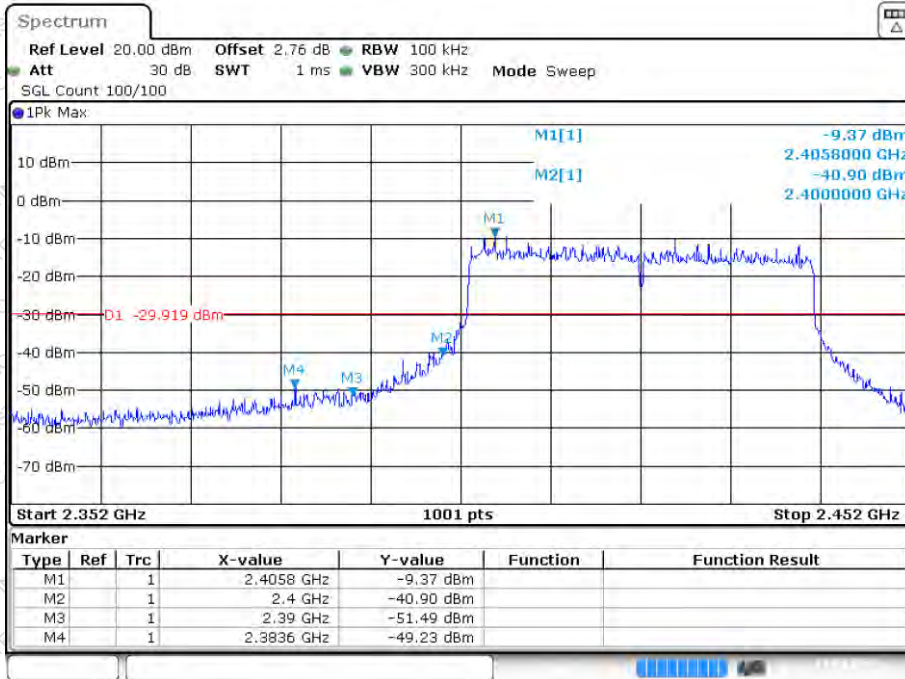
### Band Edge NVNT ax20 2462MHz Ant1 Emission



Date: 18.MAR.2024 16:10:06

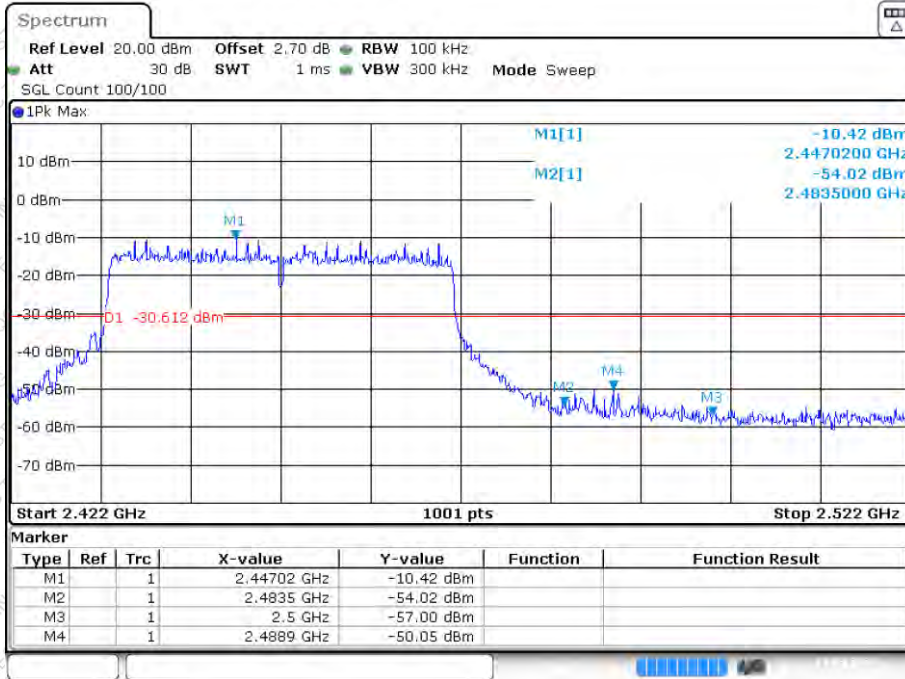


### Band Edge NVNT ax40 2422MHz Ant1 Emission



Date: 18.MAR.2024 16:16:05

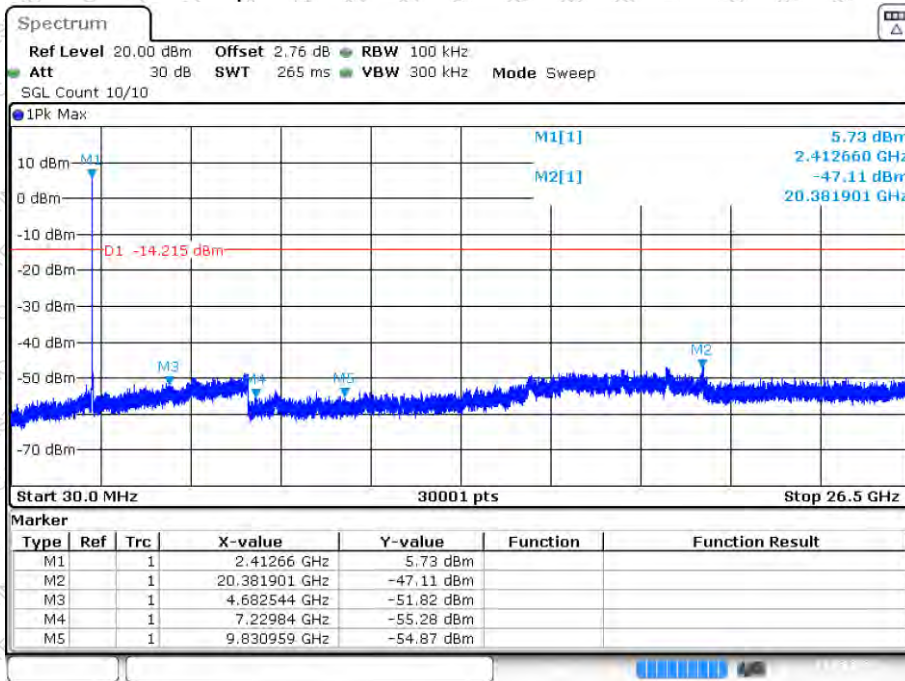
### Band Edge NVNT ax40 2452MHz Ant1 Emission



Date: 18.MAR.2024 16:21:08

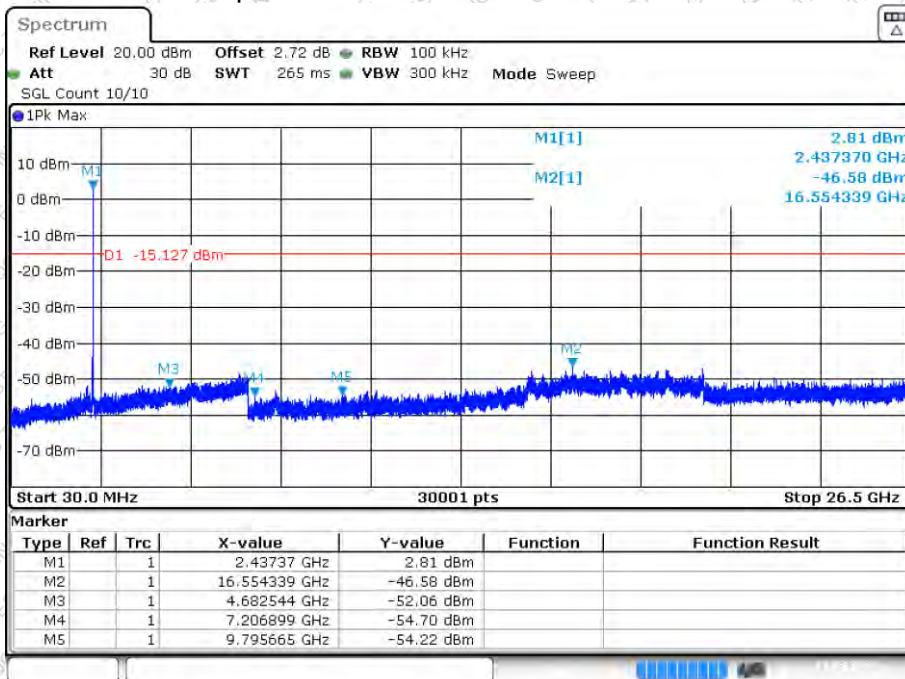


Tx. Spurious NVNT b 2412MHz Ant1 Emission



Date: 18.MAR.2024 14:42:18

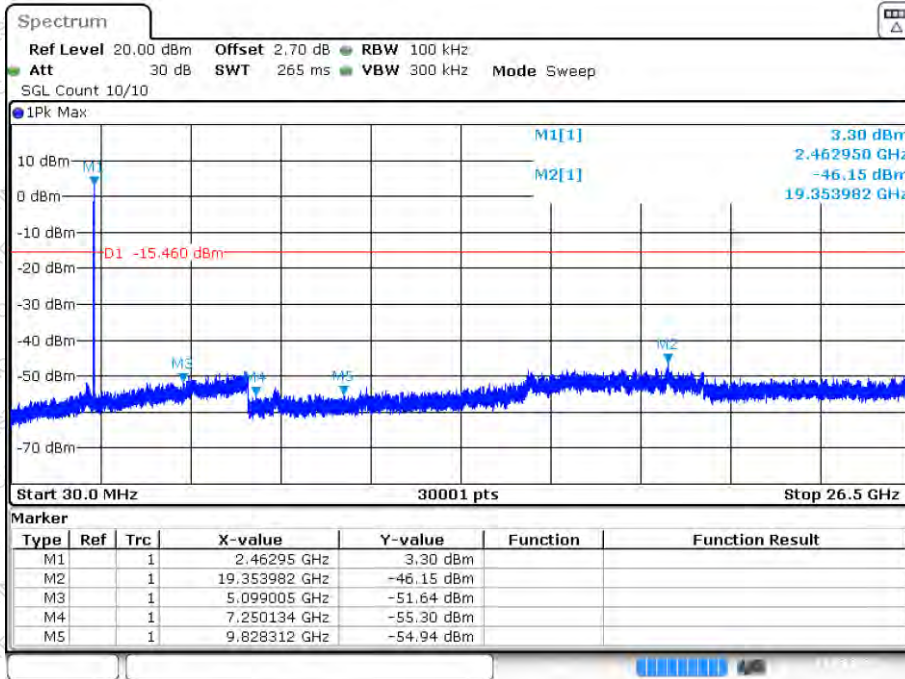
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Date: 18.MAR.2024 14:43:32

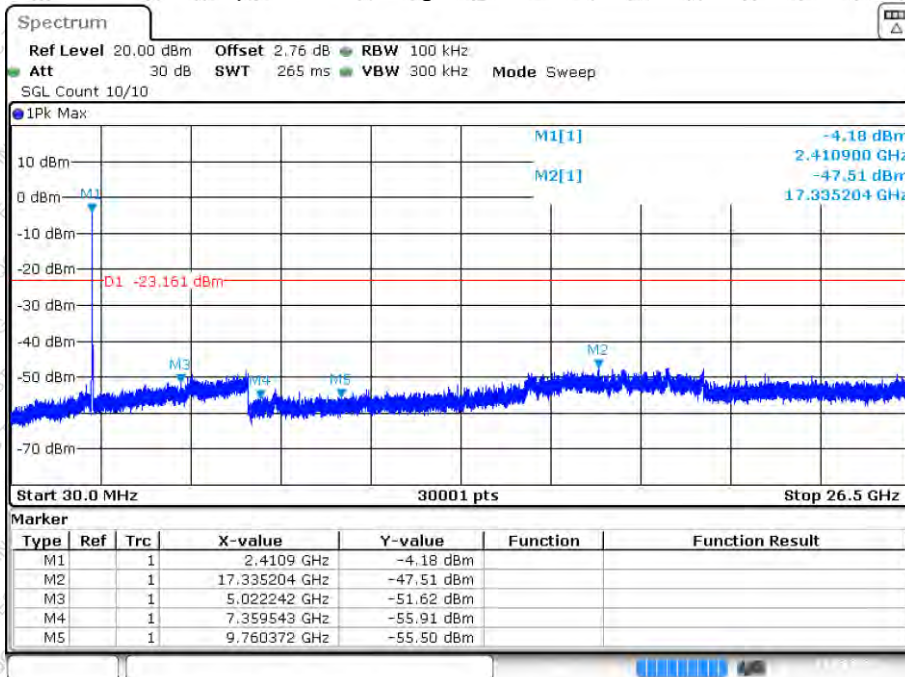


Tx. Spurious NVNT b 2462MHz Ant1 Emission



Date: 18.MAR.2024 14:44:49

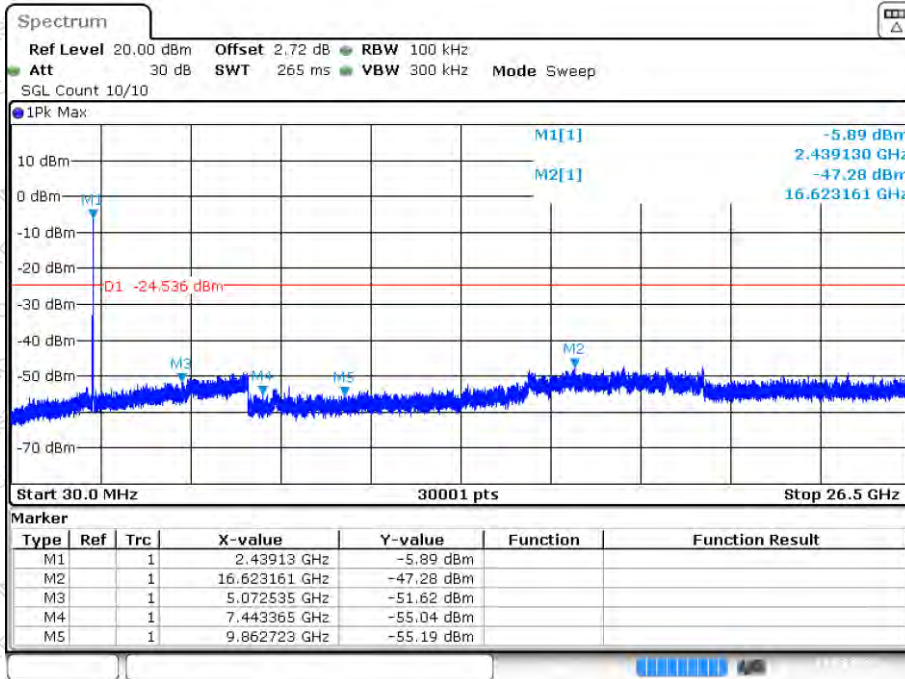
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Date: 18.MAR.2024 14:49:04

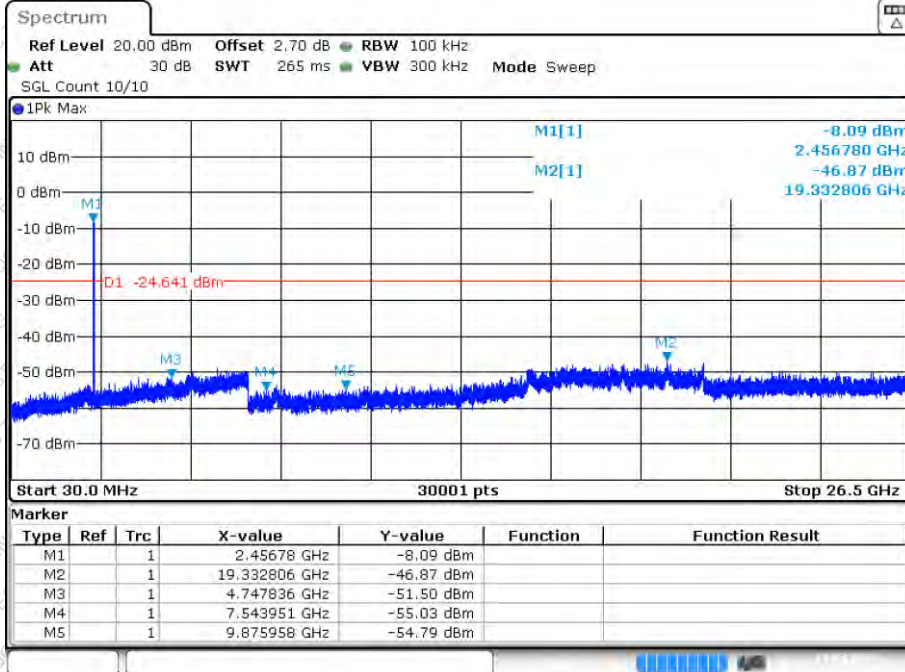


Tx. Spurious NVNT g 2437MHz Ant1 Emission



Date: 18.MAR.2024 14:50:46

Tx. Spurious NVNT g 2462MHz Ant1 Emission

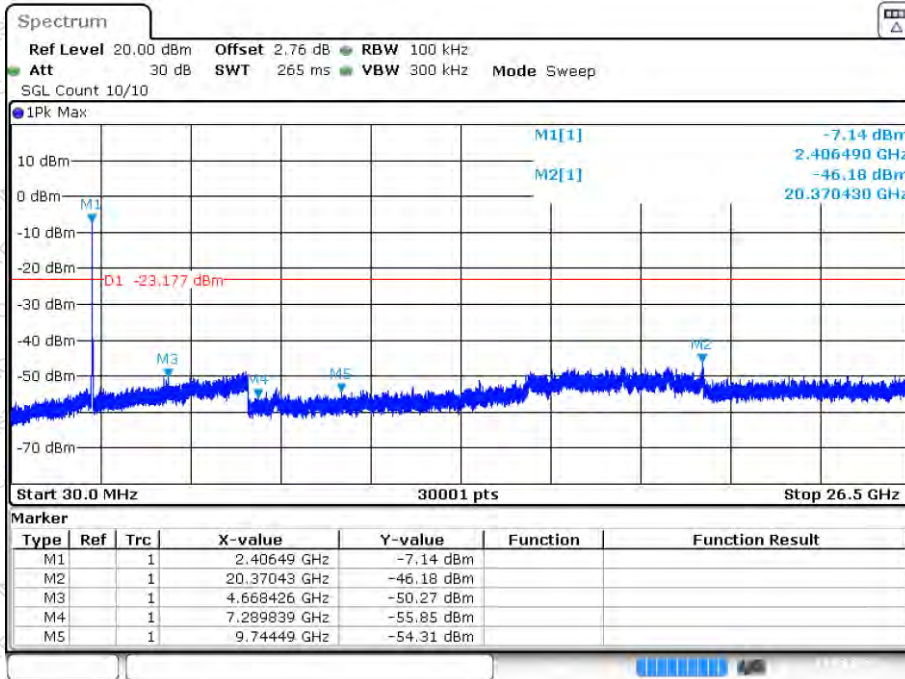


Date: 18.MAR.2024 14:52:11



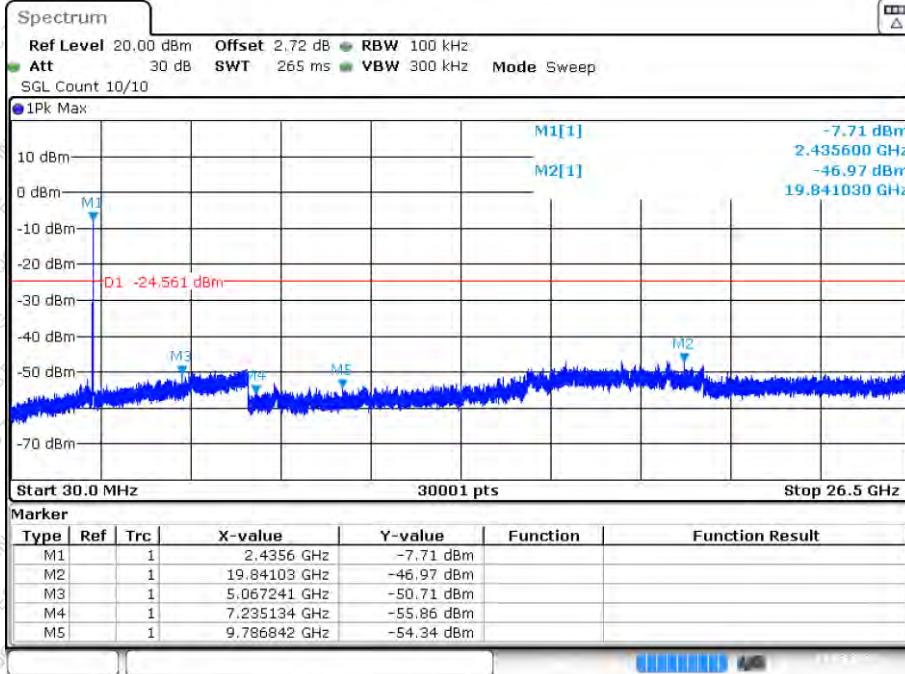


Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Date: 18.MAR.2024 14:54:55

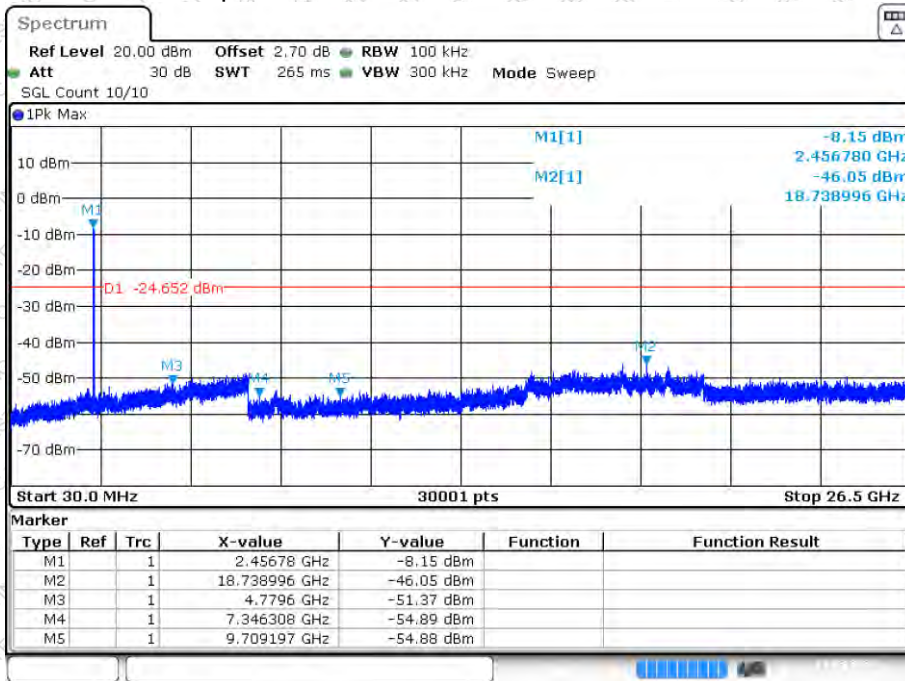
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Date: 18.MAR.2024 14:56:00

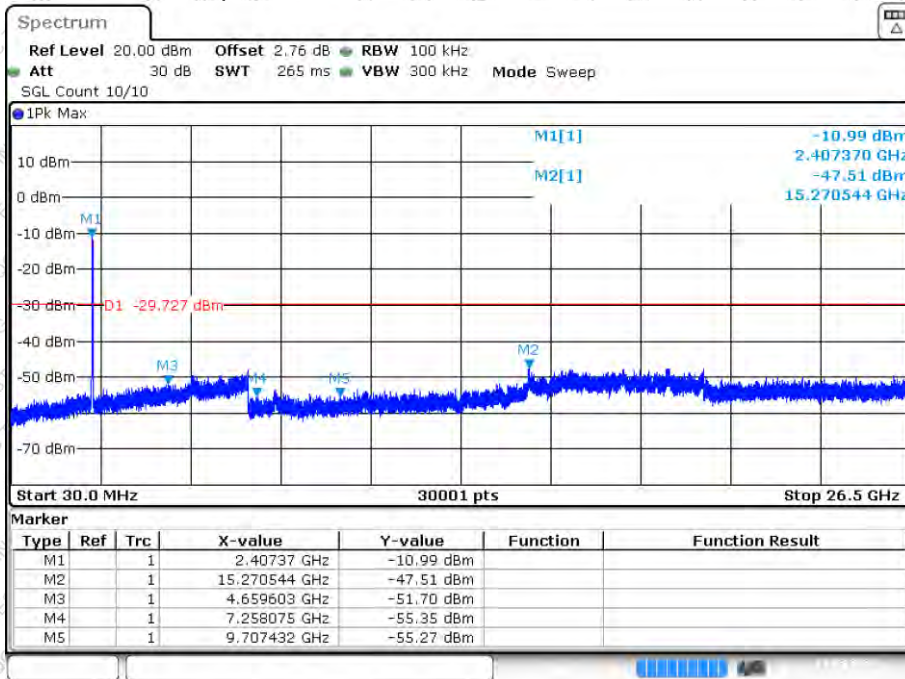


Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Date: 18.MAR.2024 14:57:16

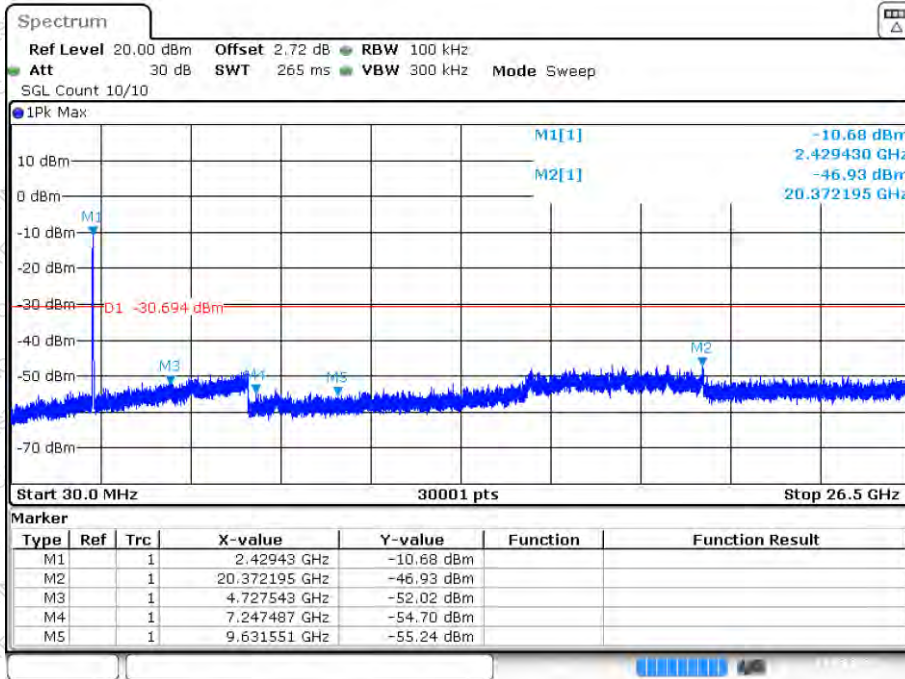
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Date: 18.MAR.2024 15:35:20

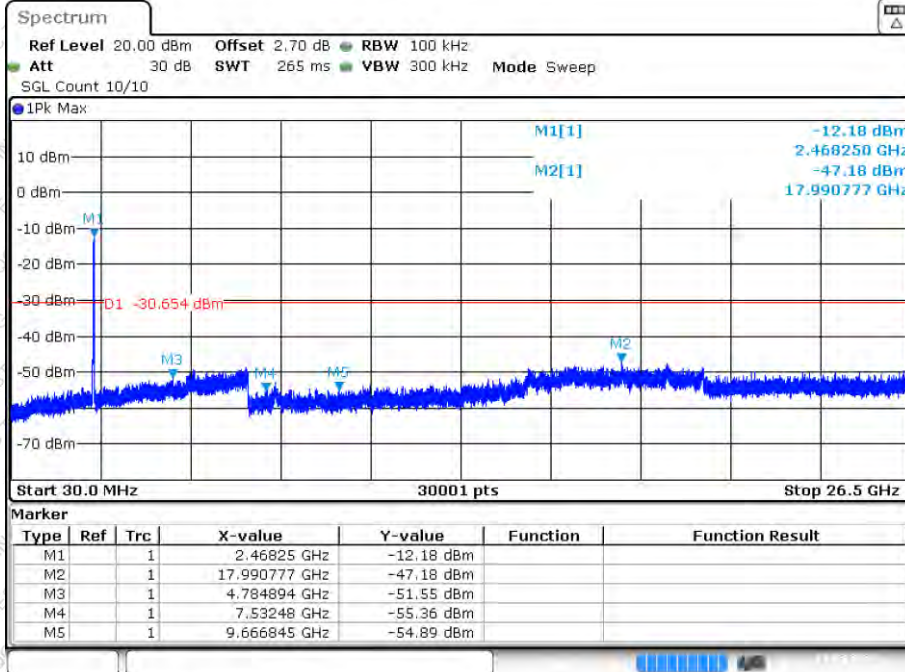


Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Date: 18.MAR.2024 15:03:29

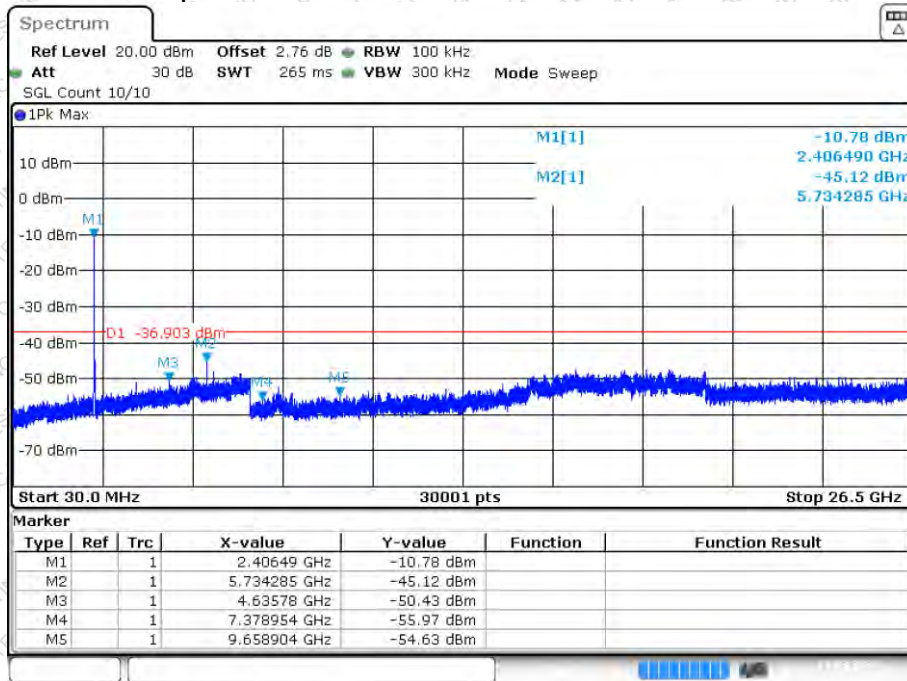
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Date: 18.MAR.2024 15:05:01

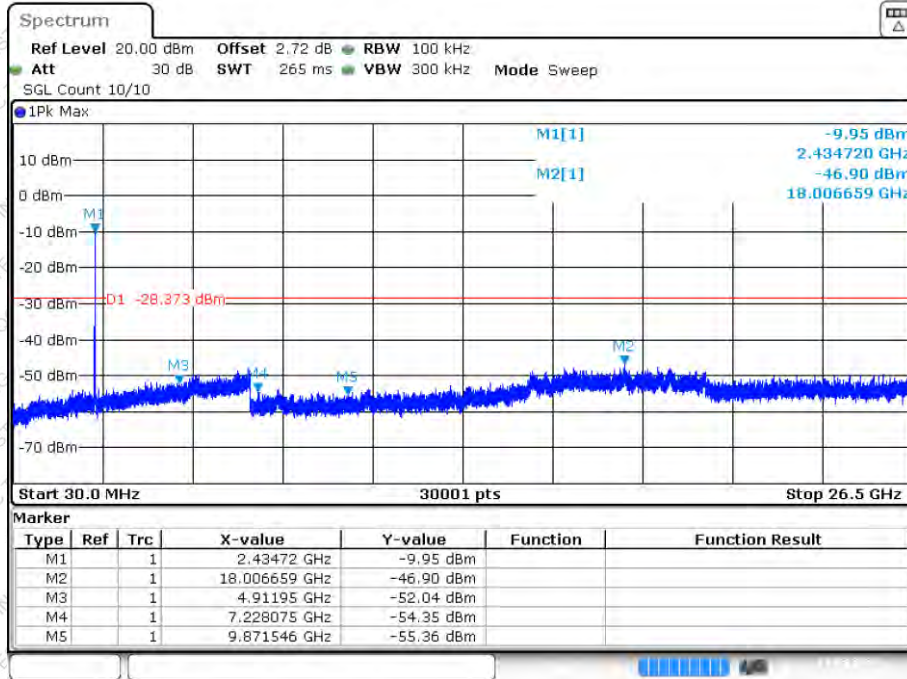


### Tx. Spurious NVNT ax20 2412MHz Ant1 Emission



Date: 18.MAR.2024 16:01:59

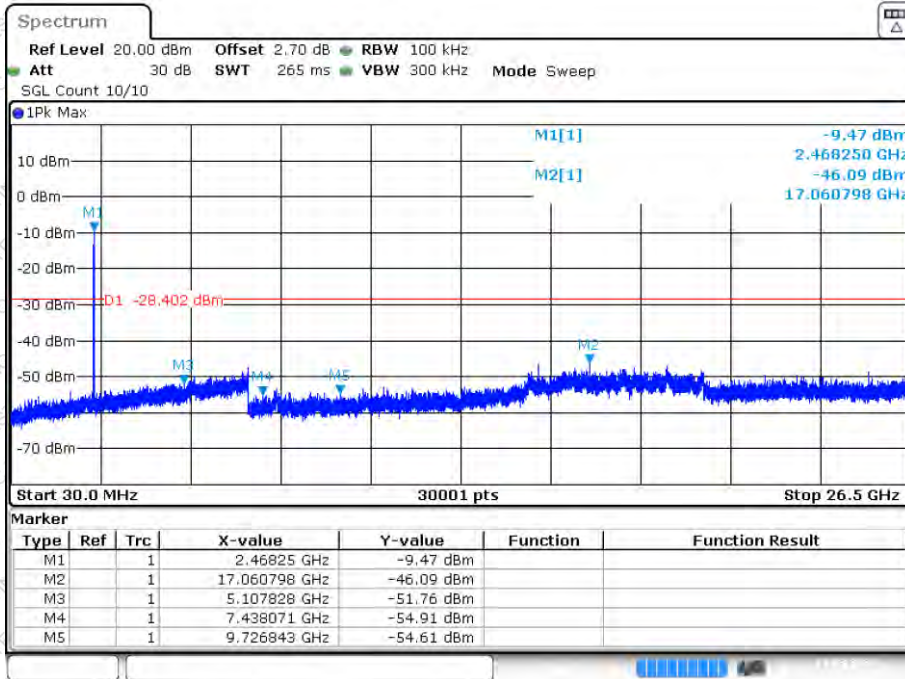
### Tx. Spurious NVNT ax20 2437MHz Ant1 Emission



Date: 18.MAR.2024 16:06:34

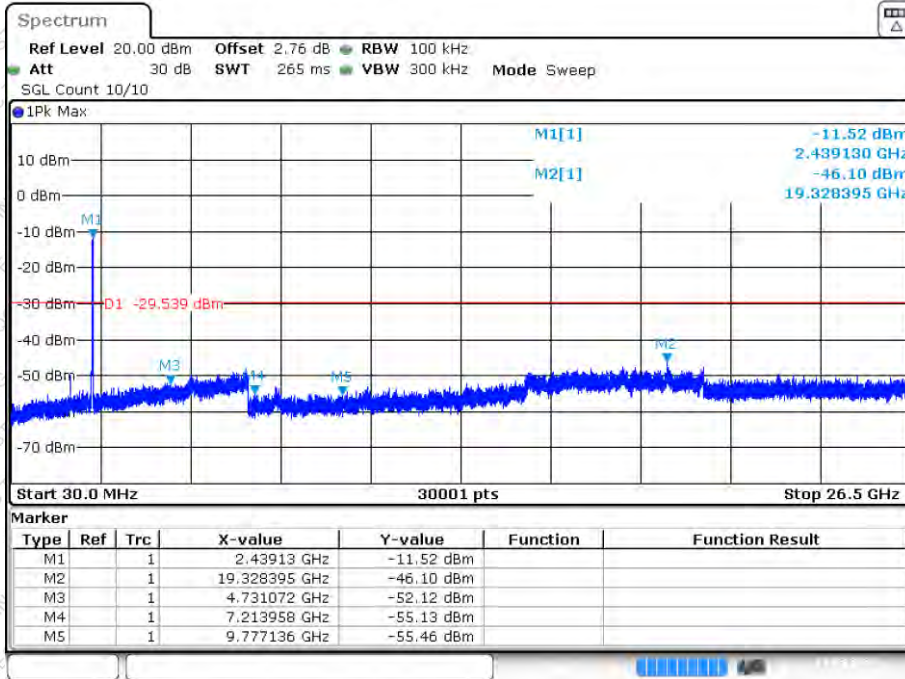


### Tx. Spurious NVNT ax20 2462MHz Ant1 Emission



Date: 18.MAR.2024 16:10:28

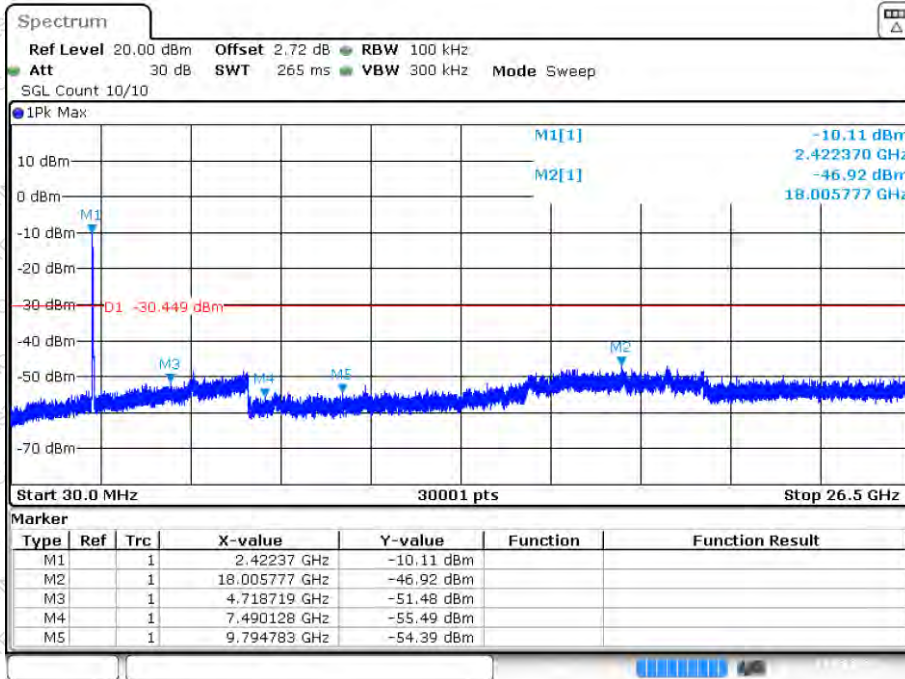
### Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



Date: 18.MAR.2024 16:16:26

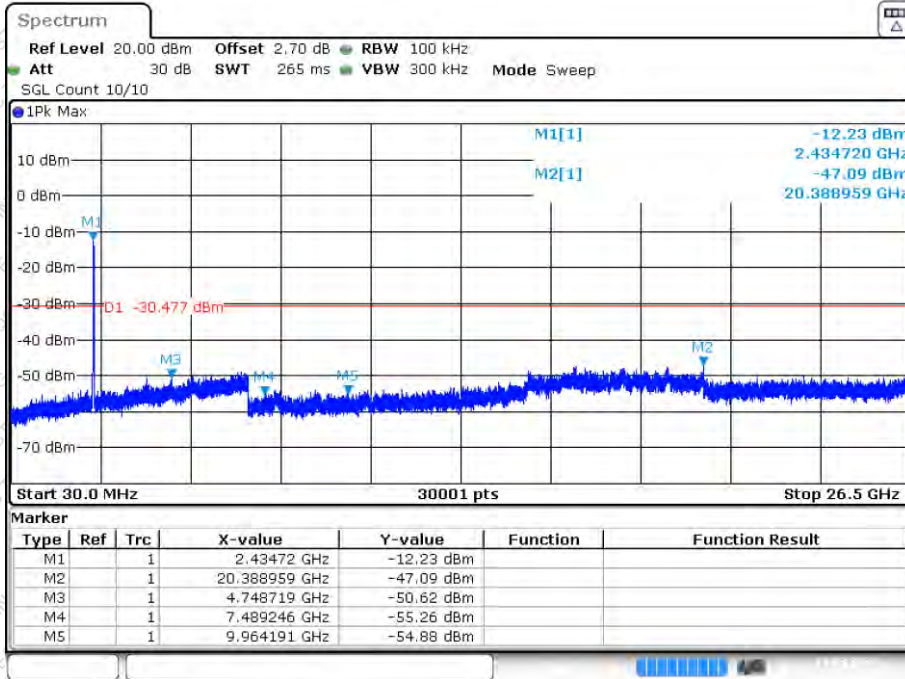


### Tx. Spurious NVNT ax40 2437MHz Ant1 Emission



Date: 18.MAR.2024 16:19:07

### Tx. Spurious NVNT ax40 2452MHz Ant1 Emission



Date: 18.MAR.2024 16:21:30

**9.2 Radiated Emission Method**

**9.2.1 Applicable Standard**

FCC Part15 C Section 15.209 and 15.205

**9.2.2 Limit**

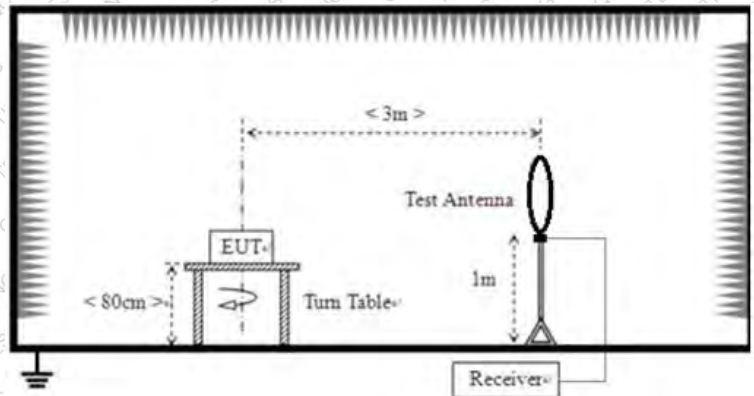
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	30m
1.705MHz-30MHz	30	QP	30m

Frequency	Field Strengths Limits (uV/m at 3 m)	Field Strengths Limits (dBuV/m at 3 m)	Remark
30 – 88	100	40.0	Quasi-peak
88 – 216	150	43.5	Quasi-peak
216 – 960	200	46.0	Quasi-peak
Above 960	500	54.0	Quasi-peak
Above 1GHz	/	54.0	Peak
		74.0	Average

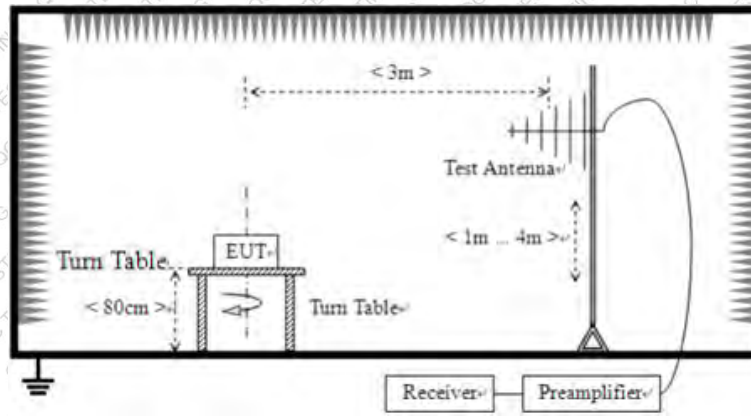
Note:  $dB\mu V/m = 20\log(\mu V/m)$

**9.2.3 Test setup**

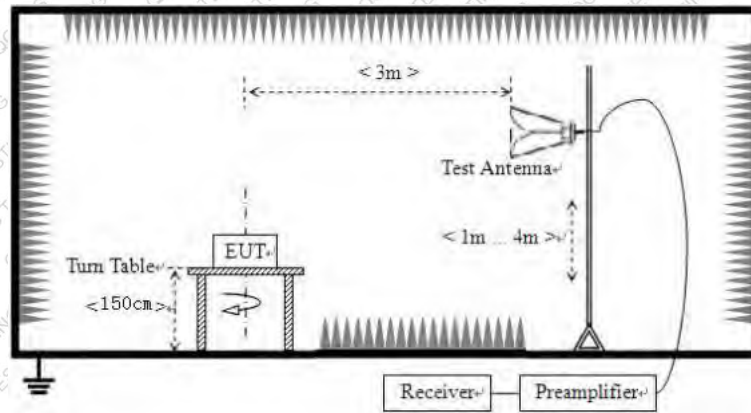
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 9.2.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	/	QP
150KHz-30MHz	9KHz	30KHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	Average

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

### 9.2.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.





- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

### 9.2.6 Test Data

Temperature	26.3 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	2.73dBi
Test by	LBi Li	Test result	PASS

Test voltage: AC 120V/60Hz.

Remarks:

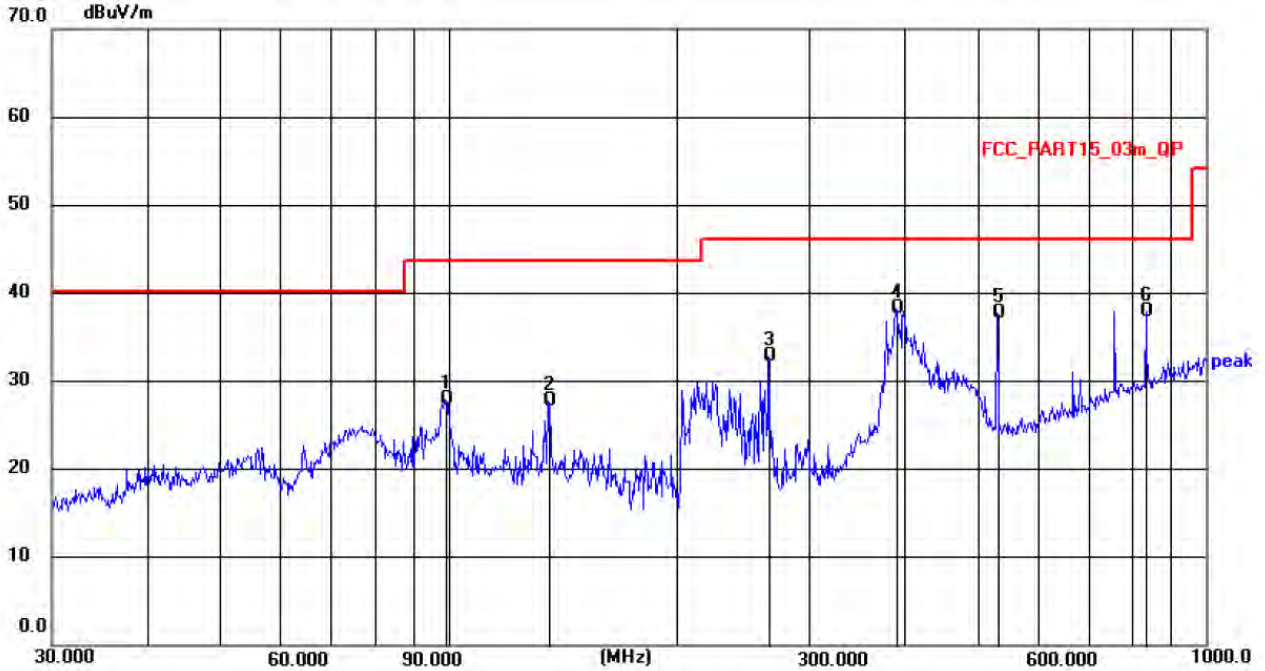
1. During the test, pre-scan the all modulation, and found the 802.11b modulation which it is worse case.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
3. The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



Below 1GHz

Pre-scan all test modes, found worst case at 802.11b mode 2412MHz, and so only show the test result of 802.11b mode 2412MHz

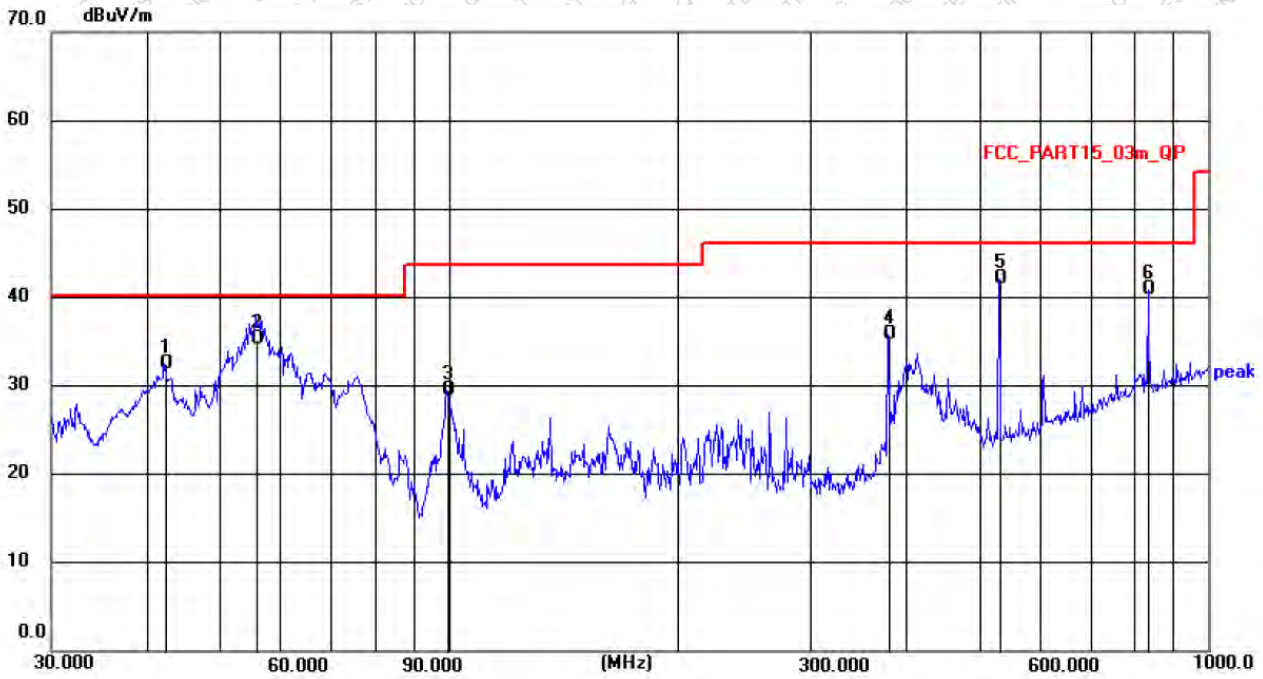
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	99.1797	16.93	10.93	27.86	43.50	15.64	QP
2	135.5062	13.58	14.21	27.79	43.50	15.71	QP
3	264.7457	19.09	13.76	32.85	46.00	13.15	QP
4 *	389.3549	20.78	17.46	38.24	46.00	7.76	QP
5	530.1014	17.30	20.40	37.70	46.00	8.30	QP
6	833.3171	12.78	25.15	37.93	46.00	8.07	QP



Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.3022	17.85	14.55	32.40	40.00	7.60	QP
2	55.8047	21.33	13.95	35.28	40.00	4.72	QP
3	99.5281	18.17	11.24	29.41	43.50	14.09	QP
4	378.5843	18.81	16.89	35.70	46.00	10.30	QP
5 *	530.1014	22.05	20.08	42.13	46.00	3.87	QP
6	833.3171	15.68	25.22	40.90	46.00	5.10	QP



Above 1GHz:

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
11b Low Channel							
2310	37.78	H	0.94	38.72	74	35.28	peak
2310	37.18	V	0.92	38.1	74	35.9	peak
2390	45.36	H	1.16	46.52	74	27.48	peak
2390	42.93	V	1.1	44.03	74	29.97	peak
4824	45.89	H	-4.29	41.6	74	32.4	peak
4824	44.34	V	-4.43	39.91	74	34.09	peak
11b Middle Channel							
4874	46.58	H	-4.12	42.46	74	31.54	peak
4874	44.81	V	-4.25	40.56	74	33.44	peak
11b High Channel							
2483.5	45.15	H	1.4	46.55	74	27.45	peak
2483.5	44.55	V	1.3	45.85	74	28.15	peak
2500	39.04	H	1.43	40.47	74	33.53	peak
2500	40.54	V	1.33	41.87	74	32.13	peak
4924	44.96	H	-3.94	41.02	74	32.98	peak
4924	46.47	V	-4.06	42.41	74	31.59	peak
2483.5	45.15	H	1.4	46.55	74	27.45	peak
11g Low Channel							
2310	36.43	H	0.94	37.37	74	36.63	peak
2310	35.68	V	0.92	36.6	74	37.4	peak
2390	51.19	H	1.16	52.35	74	21.65	peak
2390	49.54	V	1.1	50.64	74	23.36	peak
4824	45.36	H	-4.29	41.07	74	32.93	peak
4824	46.81	V	-4.43	42.38	74	31.62	peak
11g Middle Channel							
4874	44.08	H	-4.12	39.96	74	34.04	peak
4874	47.31	V	-4.25	43.06	74	30.94	peak
11g High Channel							
2483.5	53.5	H	1.4	54.9	74	19.1	peak
2483.5	32.55	H	1.4	33.95	54	20.05	AVG
2483.5	51.28	V	1.3	52.58	74	21.42	peak
2500	40.61	H	1.43	42.04	74	31.96	peak
2500	33.95	V	1.33	35.28	74	38.72	peak
4924	42.46	H	-3.94	38.52	74	35.48	peak
4924	45.47	V	-4.06	41.41	74	32.59	peak
11n20 Low Channel							
2310	34.95	H	0.94	35.89	74	38.11	peak
2310	35.25	V	0.92	36.17	74	37.83	peak
2390	46.07	H	1.16	47.23	74	26.77	peak
2390	43.12	V	1.1	44.22	74	29.78	peak
4824	44.39	H	-4.29	40.1	74	33.9	peak
4824	47.84	V	-4.43	43.41	74	30.59	peak



11n20 Middle Channel							
4874	44.58	H	-4.12	40.46	74	33.54	peak
4874	45.31	V	-4.25	41.06	74	32.94	peak
11n20 High Channel							
2483.5	48.78	H	1.4	50.18	74	23.82	peak
2483.5	46.6	V	1.3	47.9	74	26.1	peak
2500	39.04	H	1.43	40.47	74	33.53	peak
2500	39.59	V	1.33	40.92	74	33.08	peak
4924	42.96	H	-3.94	39.02	74	34.98	peak
4924	47.47	V	-4.06	43.41	74	30.59	peak
11n40 Low Channel							
2310	35.56	H	0.94	36.5	74	37.5	peak
2310	35.7	V	0.92	36.62	74	37.38	peak
2390	45.13	H	1.16	46.29	74	27.71	peak
2390	40.76	V	1.1	41.86	74	32.14	peak
4844	44.82	H	-4.23	40.59	74	33.41	peak
4844	49.24	V	-4.36	44.88	74	29.12	peak
11n40 Middle Channel							
4874	44.58	H	-4.12	40.46	74	33.54	peak
4874	48.31	V	-4.25	44.06	74	29.94	peak
11n40 High Channel							
2483.5	44.12	H	1.4	45.52	74	28.48	peak
2483.5	44.84	V	1.3	46.14	74	27.86	peak
2500	37.99	H	1.43	39.42	74	34.58	peak
2500	39.03	V	1.33	40.36	74	33.64	peak
4904	44.44	H	-4.02	40.42	74	33.58	peak
4904	48.15	V	-4.14	44.01	74	29.99	peak
11ax20 Low Channel							
2310	36.04	H	0.94	36.98	74	37.02	peak
2310	35.3	V	0.92	36.22	74	37.78	peak
2390	43.06	H	1.16	44.22	74	29.78	peak
2390	39.87	V	1.1	40.97	74	33.03	peak
4824	43.89	H	-4.29	39.6	74	34.4	peak
4824	48.34	V	-4.43	43.91	74	30.09	peak
11ax20 Middle Channel							
4874	45.58	H	-4.12	41.46	74	32.54	peak
4874	47.81	V	-4.25	43.56	74	30.44	peak
11ax20 High Channel							
2483.5	42.82	H	1.4	44.22	74	29.78	peak
2483.5	39.31	V	1.3	40.61	74	33.39	peak
2500	36.67	H	1.43	38.1	74	35.9	peak
2500	38.64	V	1.33	39.97	74	34.03	peak
4924	46.46	H	-3.94	42.52	74	31.48	peak
4924	47.96	V	-3.91	44.05	74	29.95	peak
11ax40 Low Channel							
2310	35.13	H	0.94	36.07	74	37.93	peak
2310	36.4	V	0.92	37.32	74	36.68	peak
2390	44.76	H	1.16	45.92	74	28.08	peak



2390	41.59	V	1.1	42.69	74	31.31	peak
4844	48.32	H	-4.23	44.09	74	29.91	peak
4844	50.24	V	-4.36	45.88	74	28.12	peak
11x40 Middle Channel							
4874	49.08	H	-4.12	44.96	74	29.04	peak
4874	50.31	V	-4.25	46.06	74	27.94	peak
11x40 High Channel							
2483.5	45.2	H	1.4	46.6	74	27.4	peak
2483.5	42.58	V	1.3	43.88	74	30.12	peak
2500	38.69	H	1.43	40.12	74	33.88	peak
2500	40	V	1.33	41.33	74	32.67	peak
4904	49.44	H	-4.02	45.42	74	28.58	peak
4904	50.15	V	-4.14	46.01	74	27.99	peak

Remarks:

1. Level =Receiver Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

----- THE END OF TEST REPORT -----