TCT 通测检测
TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2BAMG-IGO3600	
Test Report No..... :	TCT230320E905	
Date of issue..... :	May 10, 2023	
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Foxtheon Energy Technology (Fujian) Co., Ltd.	
Address..... :	Room 409 Building 16, Hi-tech Zone Haixiyuan, Fuzhou, China	
Manufacturer's name ... :	Foxtheon Energy Technology (Fujian) Co., Ltd.	
Address..... :	Room 409 Building 16, Hi-tech Zone Haixiyuan, Fuzhou, China	
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	
Product Name..... :	Portable Power Station	
Trade Mark ..... :	Foxtheon	
Model/Type reference..... :	iGo3600	
Rating(s)..... :	AC 120V/60Hz Rechargeable Li-ion Battery DC 57.6V	
Date of receipt of test item ..... :	Mar. 20, 2023	
Date (s) of performance of test..... :	Feb. 27, 2023 - Apr. 26, 2023	
Tested by (+signature) ... :	Aaron MO	Aaron Mo
Check by (+signature).... :	Beryl ZHAO	Beryl Zhao
Approved by (+signature):	Tomsin	Tomsin

SHENZHEN TONGCE TESTING LAB TCT

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1. General Product Information

1.1. EUT description

Product Name.....:	Portable Power Station
Model/Type reference.....:	iGo3600
Sample Number.....:	TCT230227E016-0101
Operation Frequency .....:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Channel Separation .....:	5MHz
Number of Channel .....:	11 for 802.11b/802.11g/802.11n(HT20)
Modulation Technology .....:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed .....:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	2.41dBi
Rating(s).....:	AC 120V/60Hz Rechargeable Li-ion Battery DC 57.6V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1.3. Operation Frequency

For 802.11b/g/n (HT20)

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	--	--

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:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

5. This test report was based on FCC ID: 2A986-QX3600; Change applicant, manufacturer, address, product name, product model No., trade mark and external photographs of EUT.

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	26.4 °C	24.5 °C
Humidity:	52 % RH	51 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	BLDevCube	
Power Level:	Default	
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery	

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098
  SHENZHEN TONGCE TESTING LAB
  Designation Number: CN1205
  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.
- IC - Registration No.: 10668A-1
  SHENZHEN TONGCE TESTING LAB
  CAB identifier: CN0031
  The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB
Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
TEL: +86-755-27673339

4.3. Measurement Uncertainty

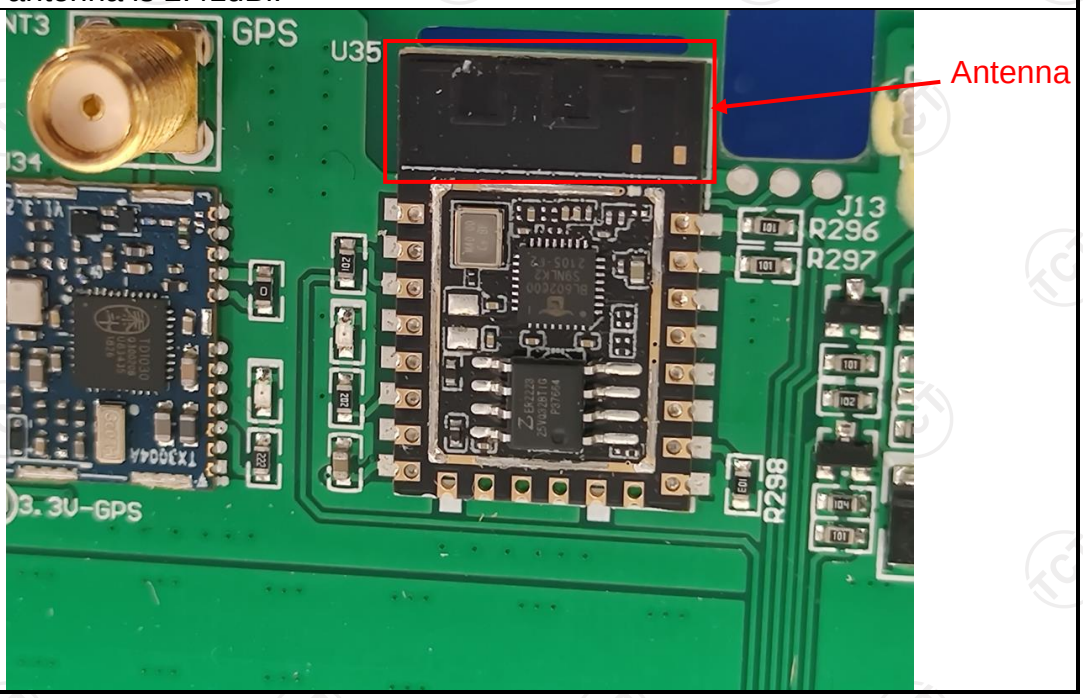
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

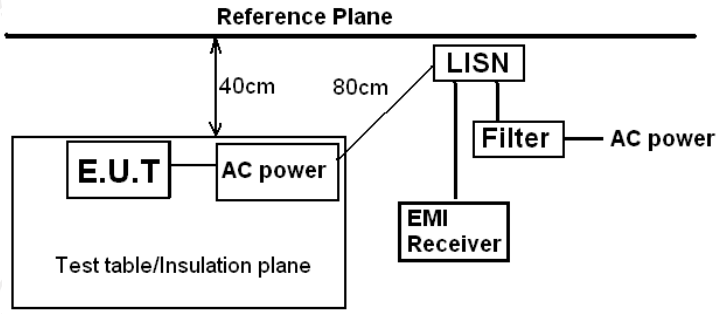
5.1. Antenna requirement

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.	
E.U.T Antenna:	
The WIFI antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 2.41dBi.	



5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr>
<tr><th>Quasi-peak</th><th>Average</th></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td>


Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m
</td></tr>
<tr><td>Test Mode:</td><td>Charging + Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T is 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 C63.10:2013 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

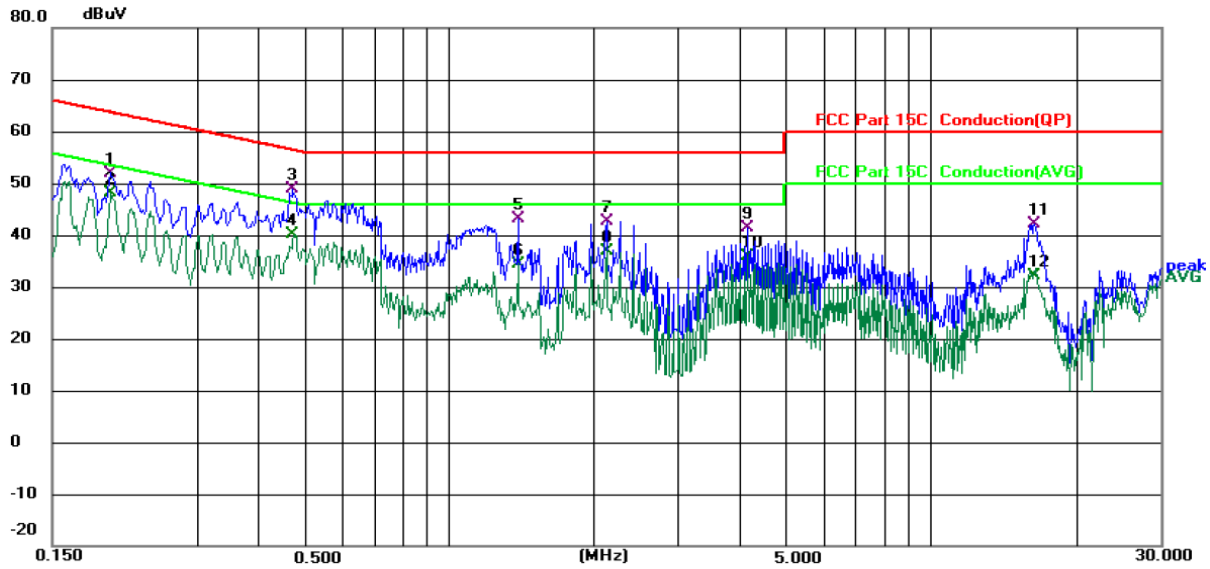
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 20, 2024
Line-5	TCT	CE-05	/	Jul. 03, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: *L1* | Temperature: 26.4 (℃) | Humidity: 52 %

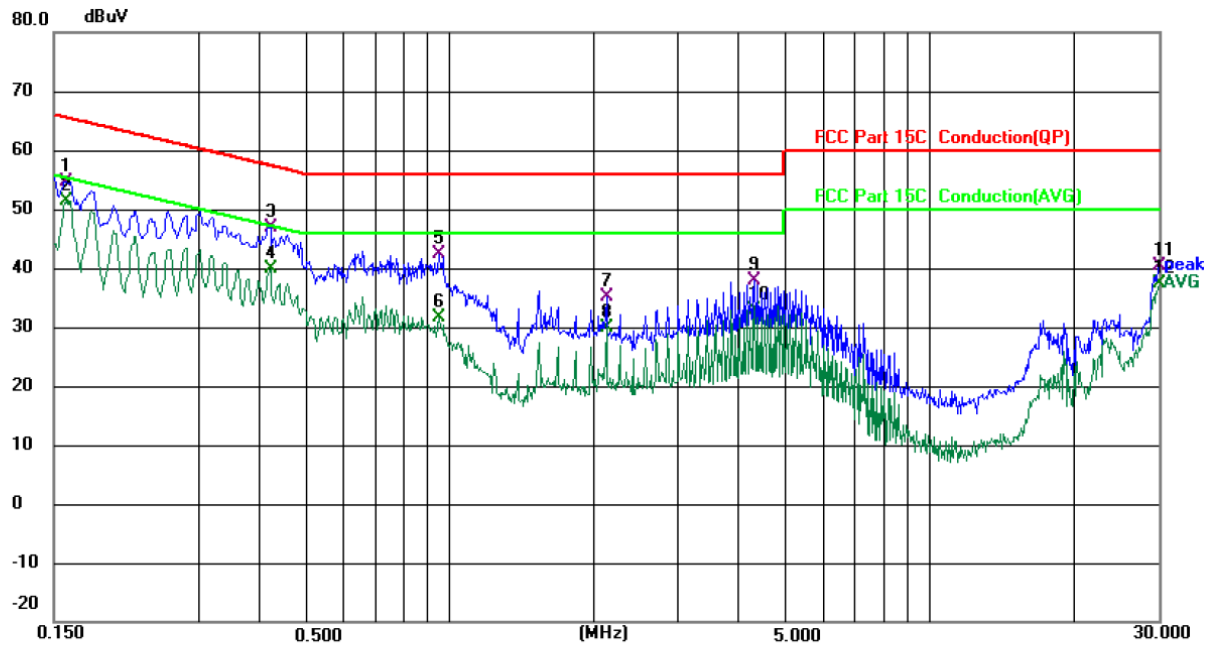
Limit: FCC Part 15C Conduction(QP) | Power:AC 120V/60Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1980	41.51	10.49	52.00	63.69	-11.69	QP	
2	*	0.1980	37.55	10.49	48.04	53.69	-5.65	AVG	
3		0.4737	38.73	10.16	48.89	56.45	-7.56	QP	
4		0.4737	29.86	10.16	40.02	46.45	-6.43	AVG	
5		1.3900	32.97	10.08	43.05	56.00	-12.95	QP	
6		1.3900	24.42	10.08	34.50	46.00	-11.50	AVG	
7		2.1218	32.64	10.02	42.66	56.00	-13.34	QP	
8		2.1218	26.75	10.02	36.77	46.00	-9.23	AVG	
9		4.1700	31.24	10.07	41.31	56.00	-14.69	QP	
10		4.1700	25.76	10.07	35.83	46.00	-10.17	AVG	
11		16.4618	31.66	10.36	42.02	60.00	-17.98	QP	
12		16.4618	21.74	10.36	32.10	50.00	-17.90	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Measurement (dBµV) – Limits (dBµV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: N | Temperature: 26.4 (℃) | Humidity: 52 %

Limit: FCC Part 15C Conduction(QP) | Power:AC 120V/60Hz

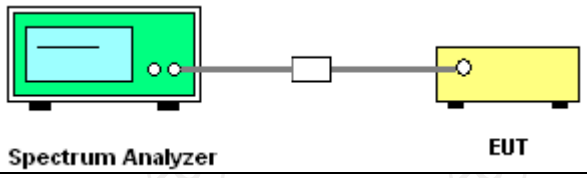
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	44.22	10.45	54.67	65.52	-10.85	QP	
2	*	0.1590	40.91	10.45	51.36	55.52	-4.16	AVG	
3		0.4218	36.77	10.19	46.96	57.41	-10.45	QP	
4		0.4218	29.58	10.19	39.77	47.41	-7.64	AVG	
5		0.9500	32.16	10.11	42.27	56.00	-13.73	QP	
6		0.9500	21.60	10.11	31.71	46.00	-14.29	AVG	
7		2.1218	25.02	10.12	35.14	56.00	-20.86	QP	
8		2.1218	19.80	10.12	29.92	46.00	-16.08	AVG	
9		4.3178	27.67	10.15	37.82	56.00	-18.18	QP	
10		4.3178	22.74	10.15	32.89	46.00	-13.11	AVG	
11		30.0000	29.94	10.48	40.42	60.00	-19.58	QP	
12		30.0000	26.86	10.48	37.34	50.00	-12.66	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Measurement (dBµV) – Limits (dBµV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

5.3. Maximum Conducted (Average) Output Power

5.3.1. Test Specification

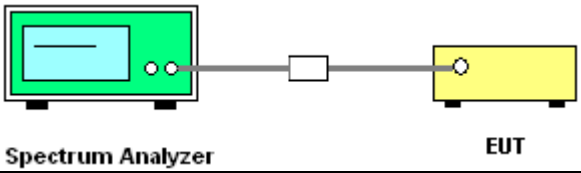
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

5.3.2. Test Instruments

RF Test Room				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. Emission Bandwidth

5.4.1. Test Specification

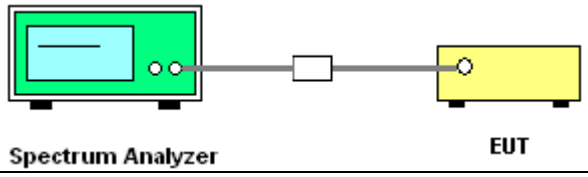
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set to the maximum power setting and enable the EUT transmit continuously. 2. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 3. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

RF Test Room				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. Power Spectral Density

5.5.1. Test Specification

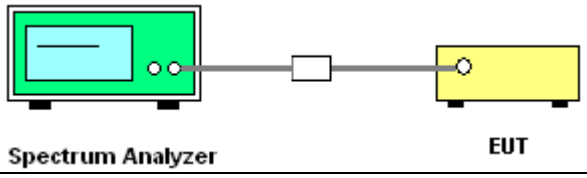
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. 4. Detector = RMS, Sweep time = auto couple. 5. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

RF Test Room				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

5.6.2. Test Instruments

RF Test Room				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m
Antenna Polarization:	Horizontal & Vertical
Operation mode:	Transmitting mode with modulation

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

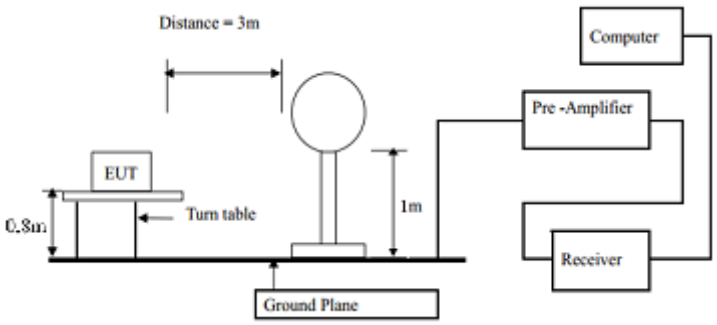
Limit:

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

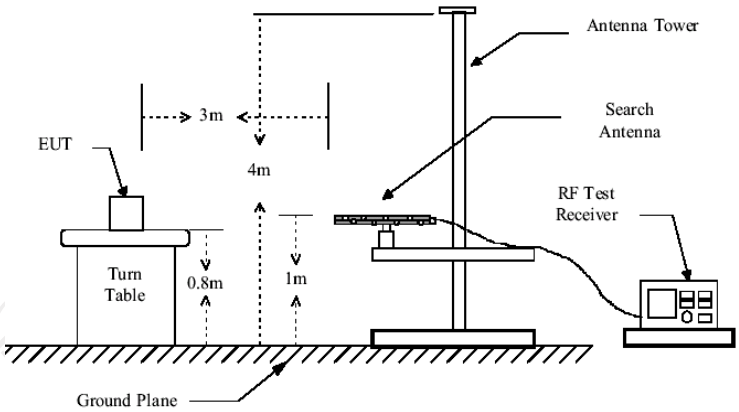
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Above 1GHz	500	3	Average
	5000	3	Peak

Test setup:

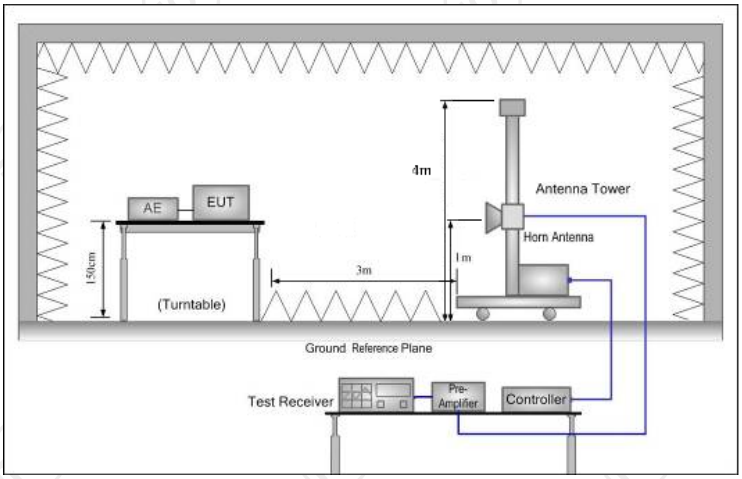
For radiated emissions below 30MHz



30MHz to 1GHz



Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is 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. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 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.
Test results:	PASS

5.7.2. Test Instruments

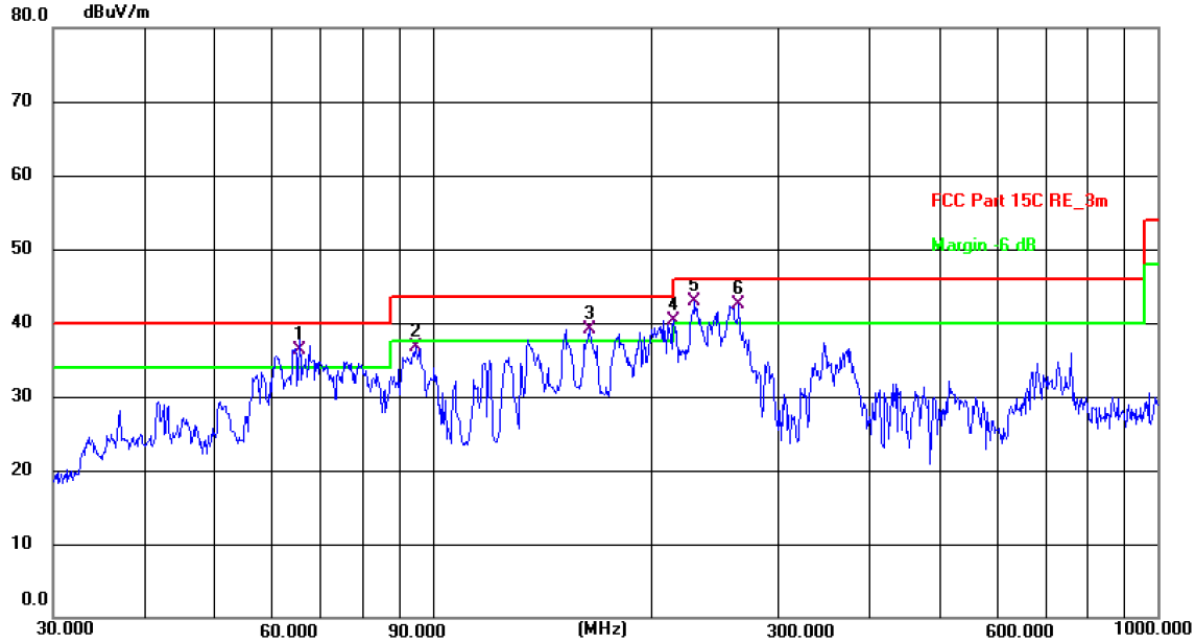
Radiated Emission Test Site (966)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 20, 2024
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 20, 2024
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2023
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2023
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2023
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 24, 2024
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

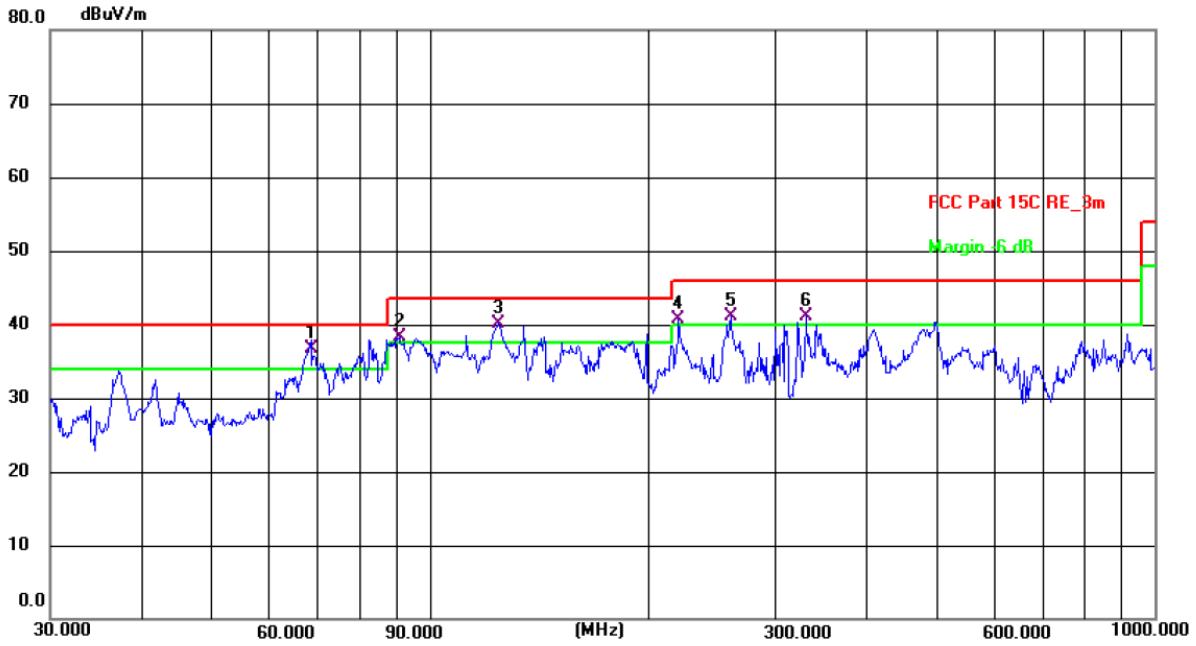


Site: #1 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 24.5(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m Power: DC 57.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	65.5725	24.27	11.98	36.25	40.00	-3.75	QP	P	
2	94.7600	26.83	9.81	36.64	43.50	-6.86	QP	P	
3 !	164.9071	26.14	12.89	39.03	43.50	-4.47	QP	P	
4 !	215.2675	29.24	11.13	40.37	43.50	-3.13	QP	P	
5 *	230.0985	30.83	12.08	42.91	46.00	-3.09	QP	P	
6 !	264.7456	29.55	12.89	42.44	46.00	-3.56	QP	P	

Vertical:



Site: #1 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 24.5(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m Power: DC 57.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	68.6310	25.35	11.36	36.71	40.00	-3.29	QP	P	
2 !	90.8554	28.96	9.36	38.32	43.50	-5.18	QP	P	
3 !	124.5690	27.77	12.26	40.03	43.50	-3.47	QP	P	
4 !	220.6168	29.31	11.44	40.75	46.00	-5.25	QP	P	
5 !	260.1444	28.52	12.51	41.03	46.00	-4.97	QP	P	
6 !	330.1947	26.41	14.77	41.18	46.00	-4.82	QP	P	

Note: *1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode (Highest channel and 802.11b) was submitted only.

3. Freq. = Emission frequency in MHz

Measurement (dBµV/m) = Reading level (dBµV) + Corr. Factor (dB)

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Limit (dBµV/m) = Limit stated in standard

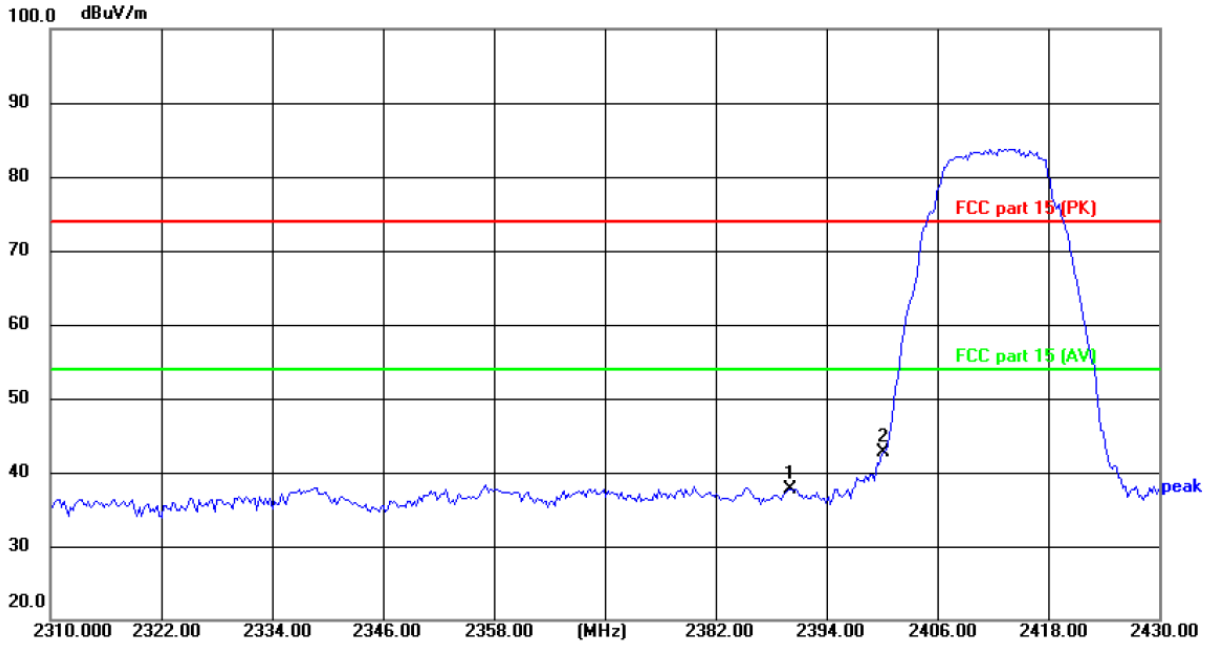
Margin (dB) = Measurement (dBµV/m) – Limits (dBµV/m)

** is meaning the worst frequency has been tested in the test frequency range.*

Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:

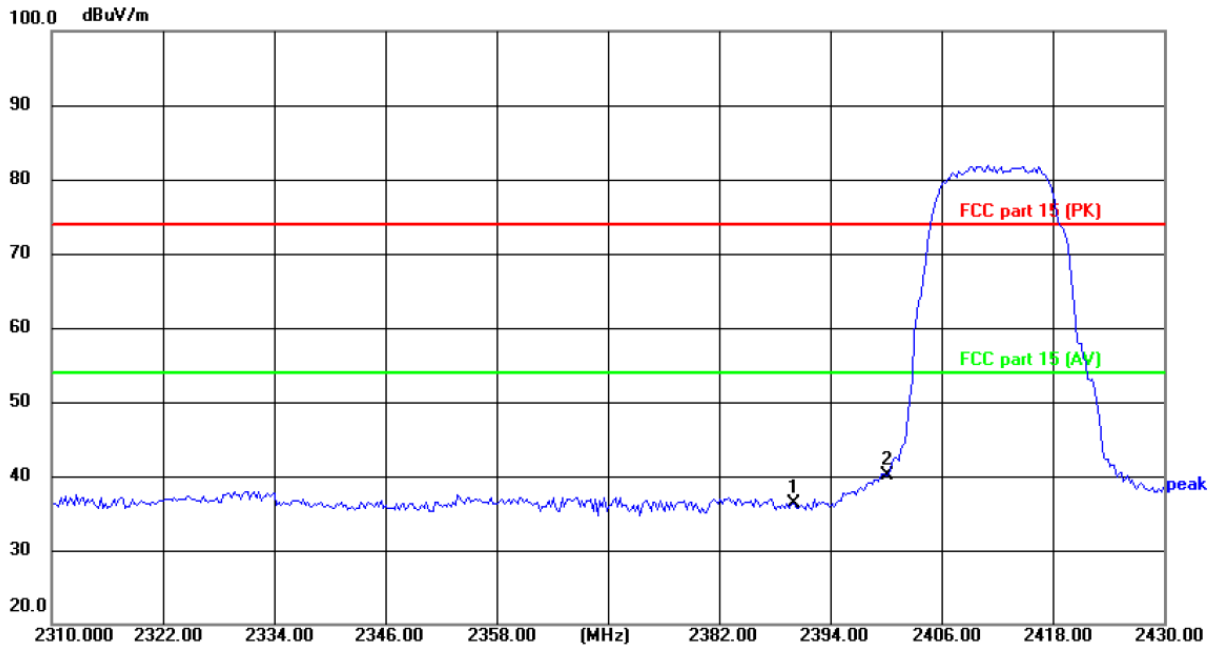


Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25(℃) Humidity: 55 %

Limit: FCC part 15 (PK) Power:DC 57.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	50.89	-13.15	37.74	74.00	-36.26	peak	P	
2 *	2400.000	55.91	-13.12	42.79	74.00	-31.21	peak	P	

Vertical:



Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25(℃) Humidity: 55 %

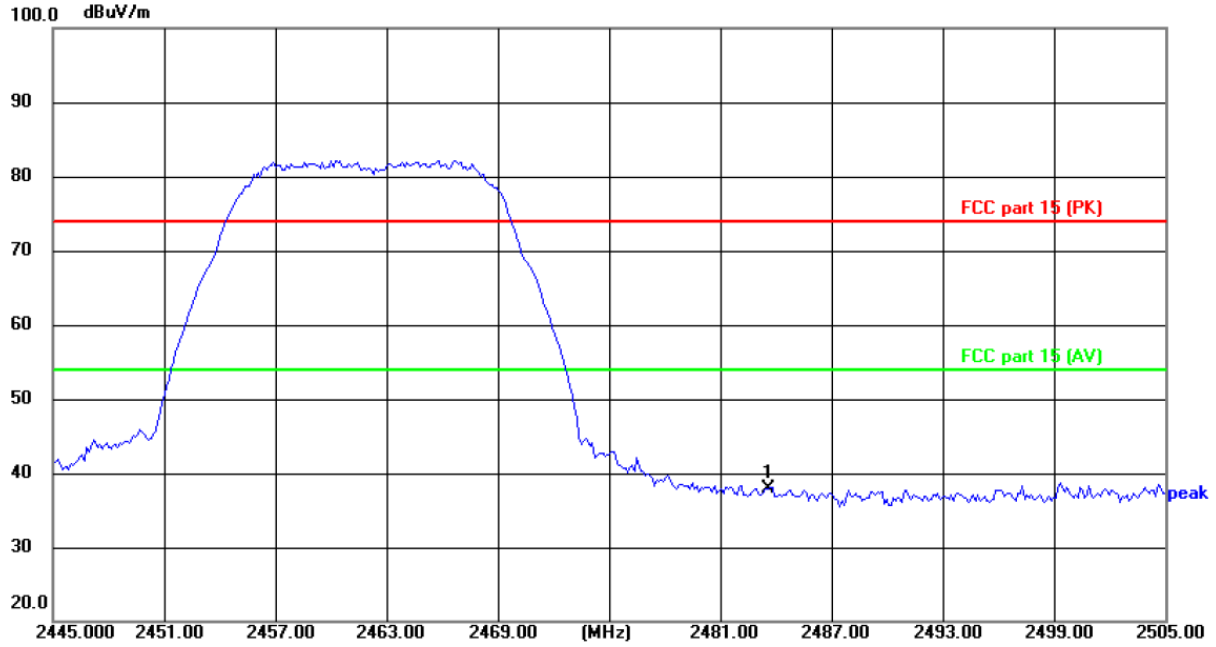
Limit: FCC part 15 (PK) Power:DC 57.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	49.46	-13.15	36.31	74.00	-37.69	peak	P	
2 *	2400.000	53.19	-13.12	40.07	74.00	-33.93	peak	P	

Note: *Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode 802.1 n(HT20) was submitted only.*

Highest channel 2462:

Horizontal:

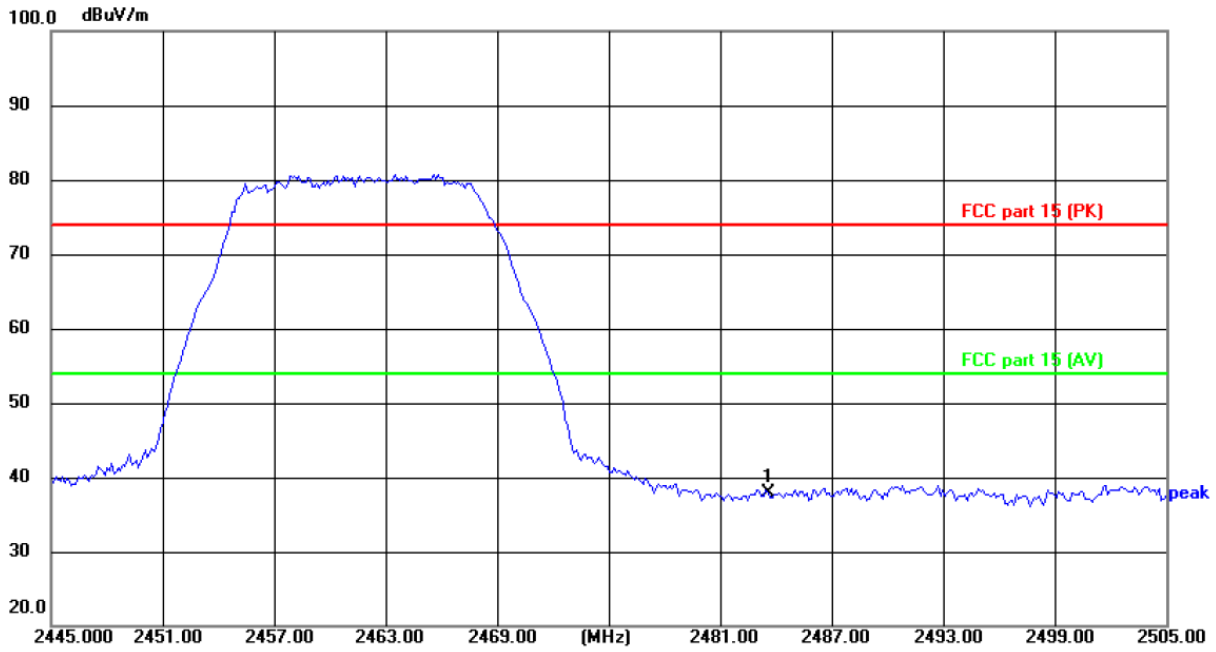


Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25(℃) Humidity: 55 %

Limit: FCC part 15 (PK) Power:DC 57.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	50.65	-12.74	37.91	74.00	-36.09	peak	P	

Vertical:



Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25(℃) Humidity: 55 %

Limit: FCC part 15 (PK) Power:DC 57.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	2483.500	50.68	-12.74	37.94	74.00	-36.06	peak	P	

Note:

1. *Peak Final Emission Level=Peak Reading + Correction Factor;*
2. *Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
3. *Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode 802.11n(HT20) was submitted only.*

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	44.99	---	0.75	45.74	---	74	54	-8.26
7236	H	34.74	---	9.87	44.61	---	74	54	-9.39
---	H	---	---	---	---	---	---	---	---
4824	V	44.66	---	0.75	45.41	---	74	54	-8.59
7236	V	34.39	---	9.87	44.26	---	74	54	-9.74
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	44.72	---	0.97	45.69	---	74	54	-8.31
7311	H	35.01	---	9.83	44.84	---	74	54	-9.16
---	H	---	---	---	---	---	---	---	---
4874	V	43.89	---	0.97	44.86	---	74	54	-9.14
7311	V	34.74	---	9.83	44.57	---	74	54	-9.43
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	44.83	---	1.18	46.01	---	74	54	-7.99
7386	H	35.05	---	10.07	45.12	---	74	54	-8.88
---	H	---	---	---	---	---	---	---	---
4924	V	44.54	---	1.18	45.72	---	74	54	-8.28
7386	V	35.01	---	10.07	45.08	---	74	54	-8.92
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11g

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	45.01	---	0.75	45.76	---	74	54	-8.24
7236	H	34.59	---	9.87	44.46	---	74	54	-9.54
---	H	---	---	---	---	---	---	---	---
4824	V	45.66	---	0.75	46.41	---	74	54	-7.59
7236	V	35.47	---	9.87	45.34	---	74	54	-8.66
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	45.72	---	0.97	46.69	---	74	54	-7.31
7311	H	36.06	---	9.83	45.89	---	74	54	-8.11
---	H	---	---	---	---	---	---	---	---
4874	V	45.04	---	0.97	46.01	---	74	54	-7.99
7311	V	34.93	---	9.83	44.76	---	74	54	-9.24
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	44.64	---	1.18	45.82	---	74	54	-8.18
7386	H	34.51	---	10.07	44.58	---	74	54	-9.42
---	H	---	---	---	---	---	---	---	---
4924	V	46.03	---	1.18	47.21	---	74	54	-6.79
7386	V	36.16	---	10.07	46.23	---	74	54	-7.77
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	46.14	---	0.75	46.89	---	74	54	-7.11
7236	H	34.92	---	9.87	44.79	---	74	54	-9.21
---	H	---	---	---	---	---	---	---	---
4824	V	45.31	---	0.75	46.06	---	74	54	-7.94
7236	V	35.55	---	9.87	45.42	---	74	54	-8.58
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	45.17	---	0.97	46.14	---	74	54	-7.86
7311	H	34.69	---	9.83	44.52	---	74	54	-9.48
---	H	---	---	---	---	---	---	---	---
4874	V	45.07	---	0.97	46.04	---	74	54	-7.96
7311	V	35.89	---	9.83	45.72	---	74	54	-8.28
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	45.78	---	1.18	46.96	---	74	54	-7.04
7386	H	36.05	---	10.07	46.12	---	74	54	-7.88
---	H	---	---	---	---	---	---	---	---
4924	V	43.66	---	1.18	44.84	---	74	54	-9.16
7386	V	34.81	---	10.07	44.88	---	74	54	-9.12
---	V	---	---	---	---	---	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
6. *All the restriction bands are compliance with the limit of 15.209.*

Appendix A: Test Result of Conducted Test

Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	100	0
NVNT	b	2437	100	0
NVNT	b	2462	100	0
NVNT	g	2412	100	0
NVNT	g	2437	100	0
NVNT	g	2462	100	0
NVNT	n20	2412	100	0
NVNT	n20	2437	100	0
NVNT	n20	2462	100	0

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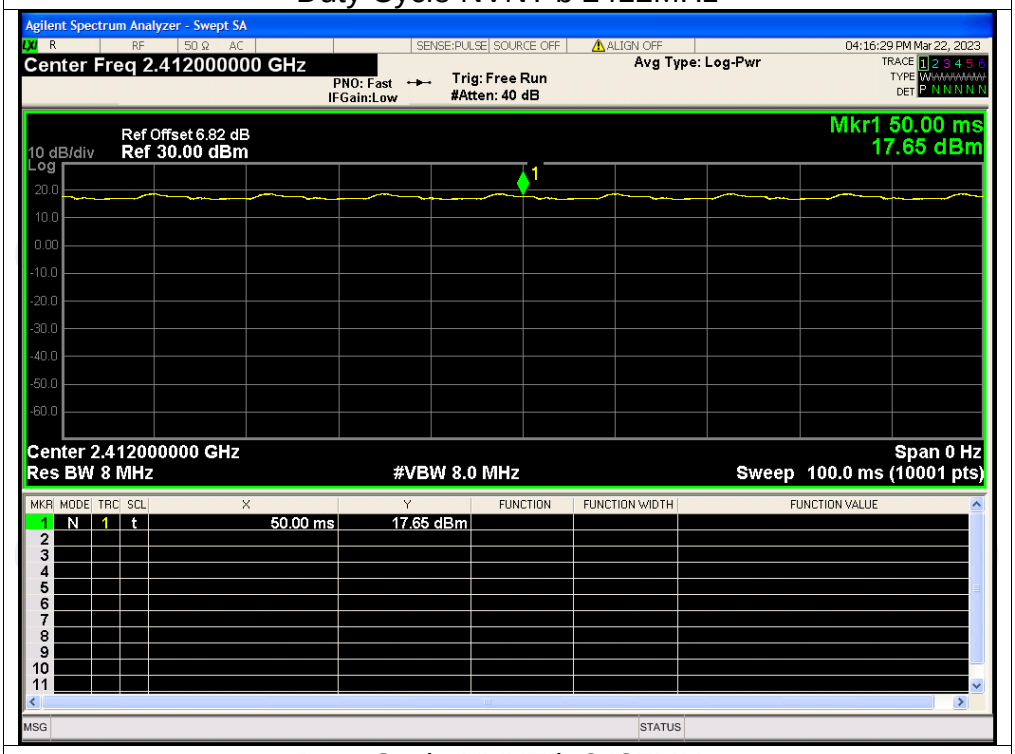
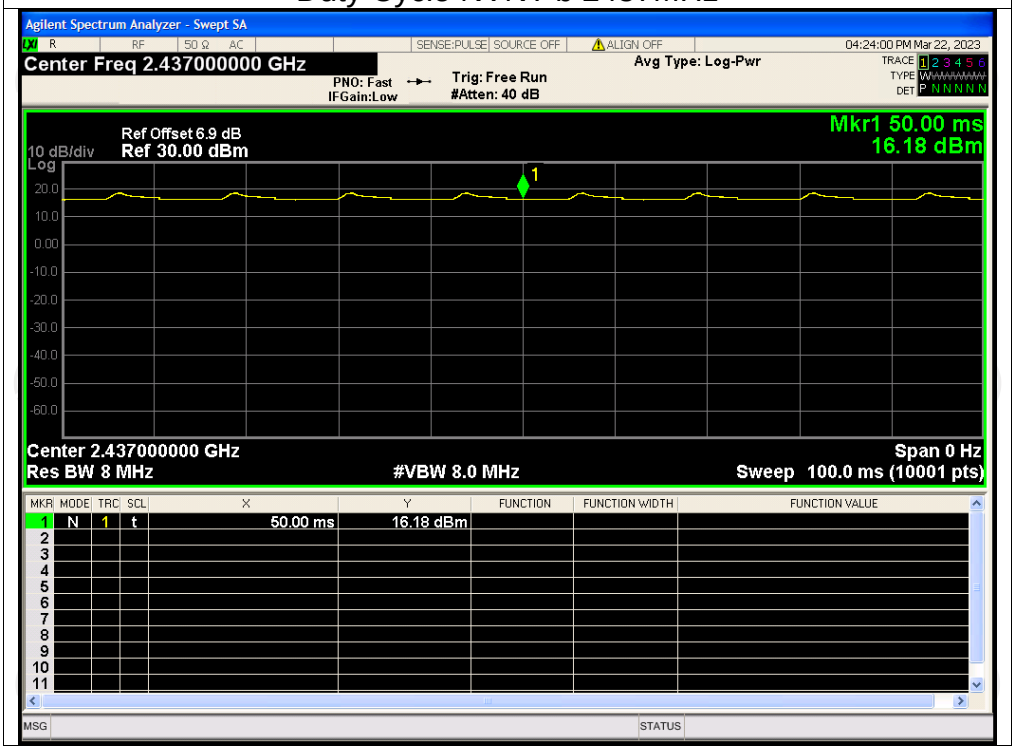
Test Graphs

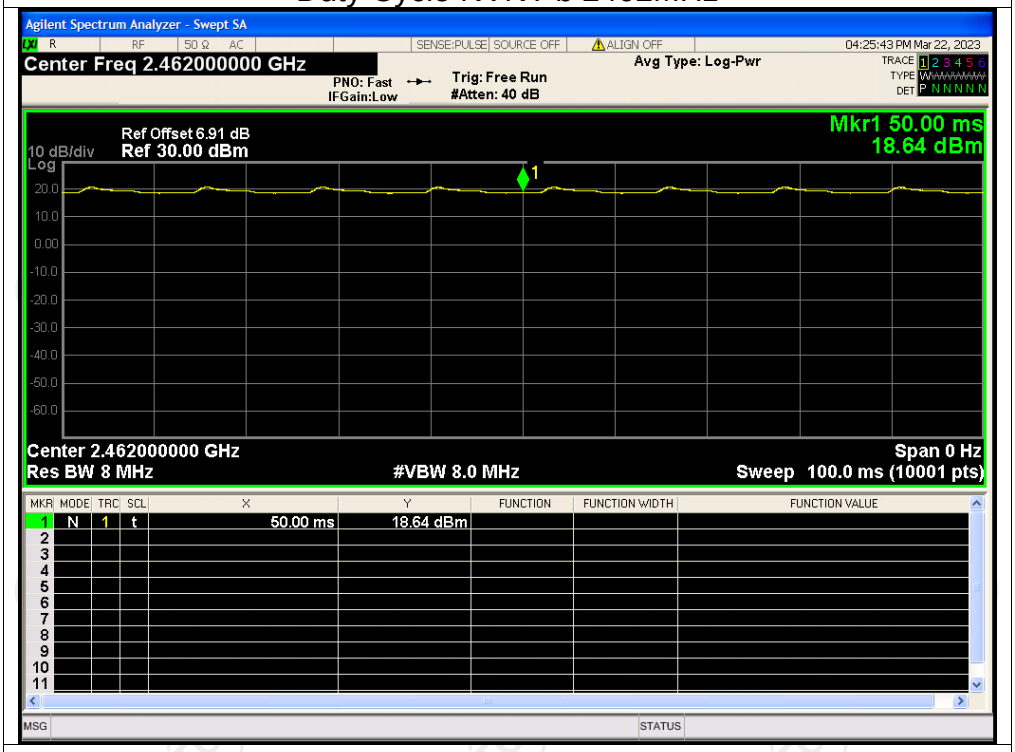
Duty Cycle NVNT b 2412MHz



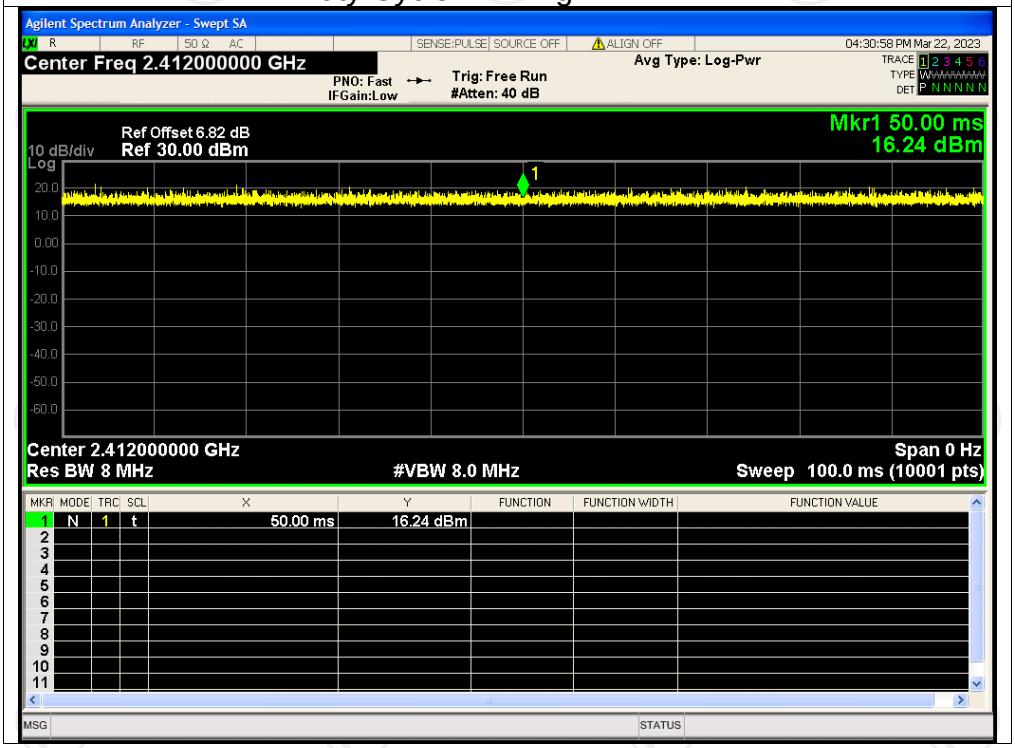
Duty Cycle NVNT b 2437MHz



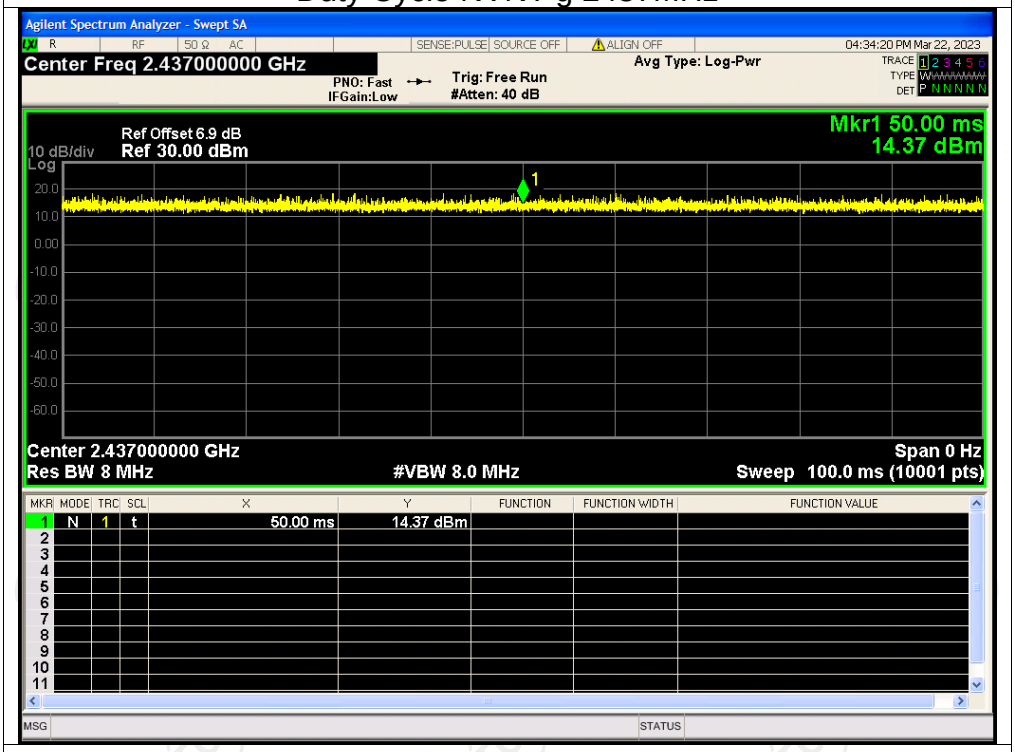
Duty Cycle NVNT b 2462MHz



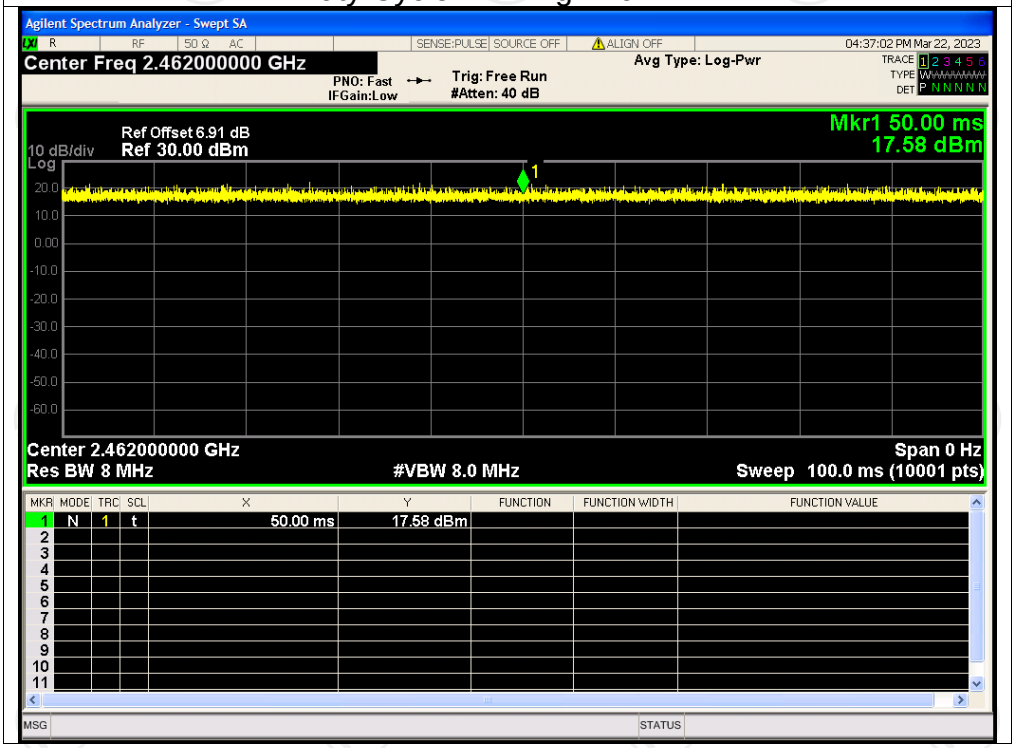
Duty Cycle NVNT g 2412MHz



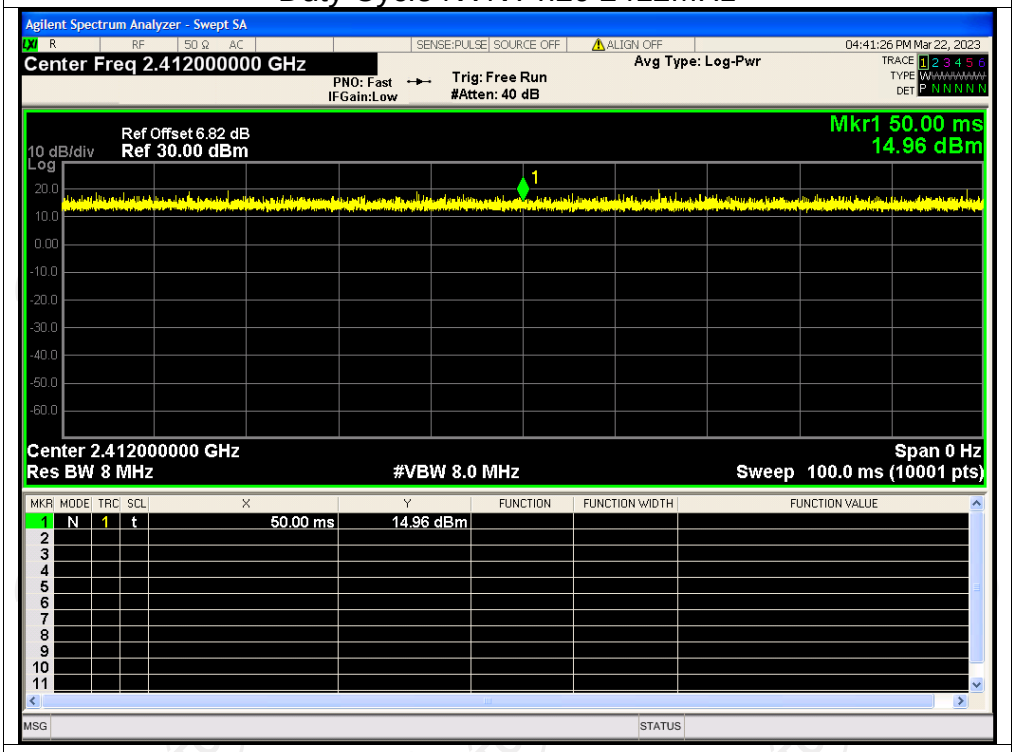
Duty Cycle NVNT g 2437MHz



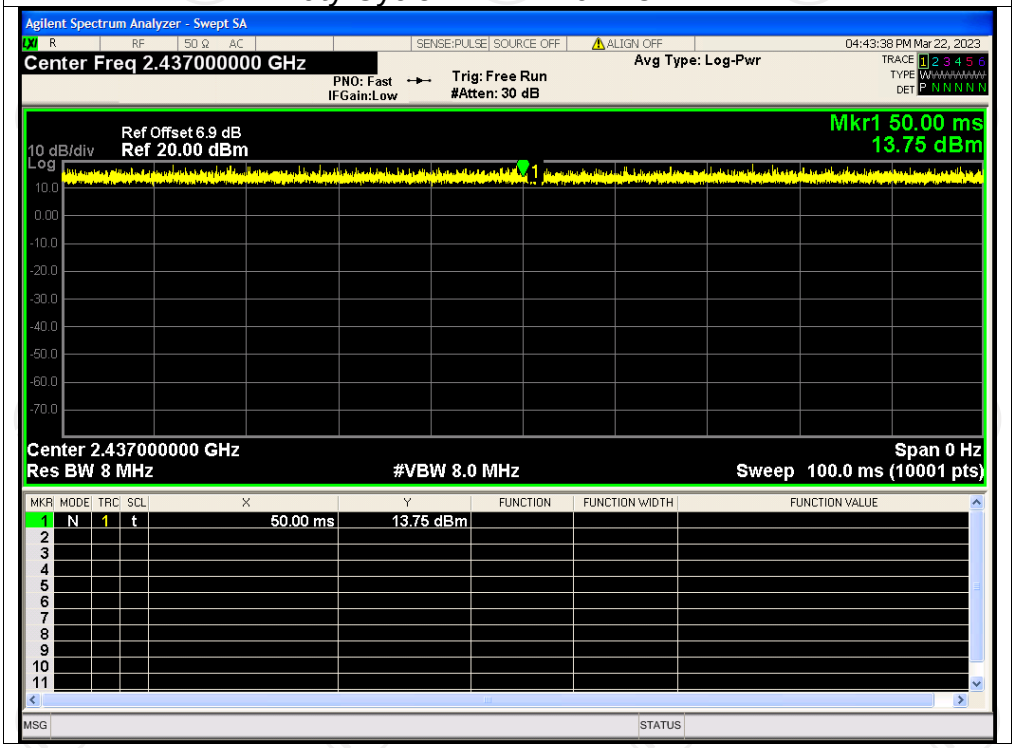
Duty Cycle NVNT g 2462MHz



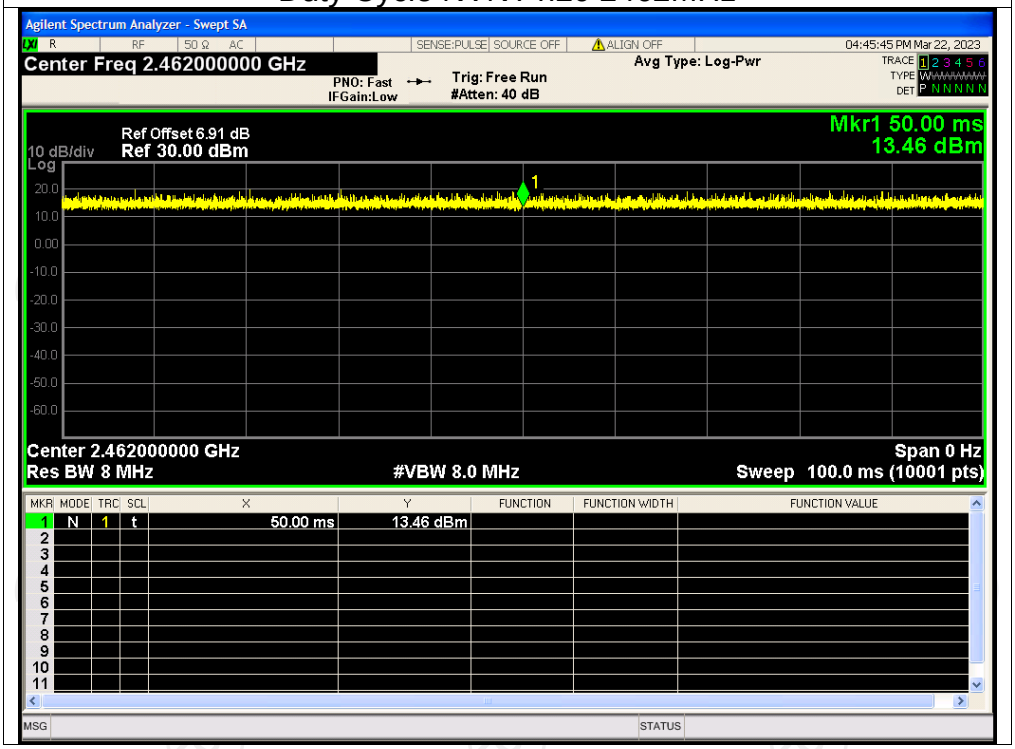
Duty Cycle NVNT n20 2412MHz



Duty Cycle NVNT n20 2437MHz



Duty Cycle NVNT n20 2462MHz

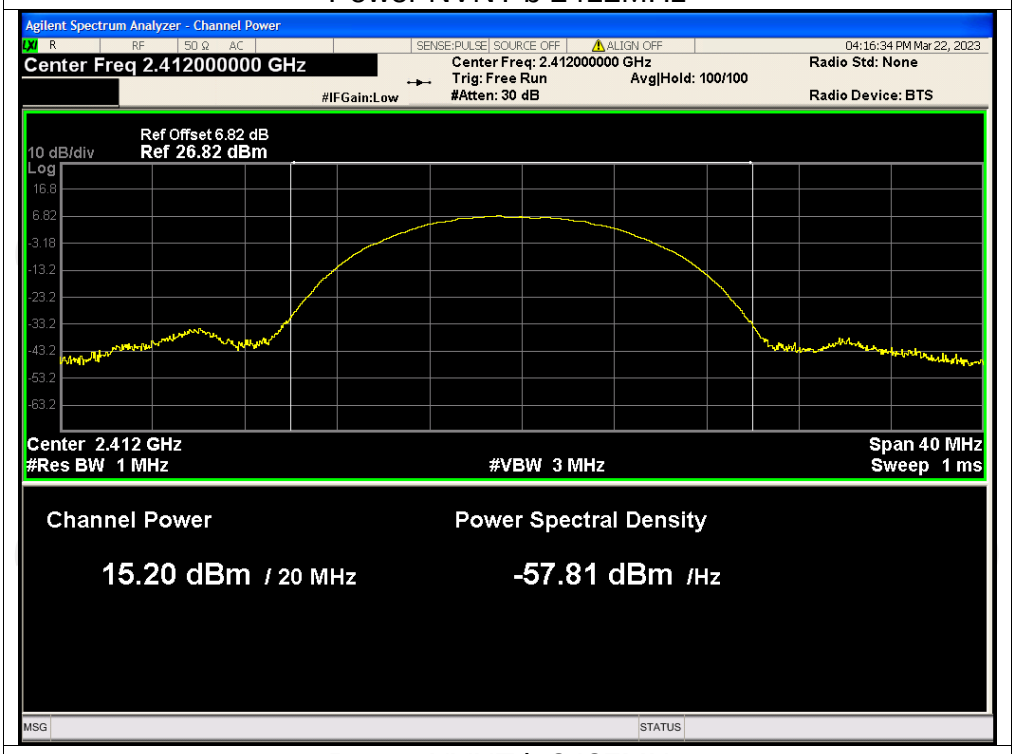


Maximum Conducted Output Power

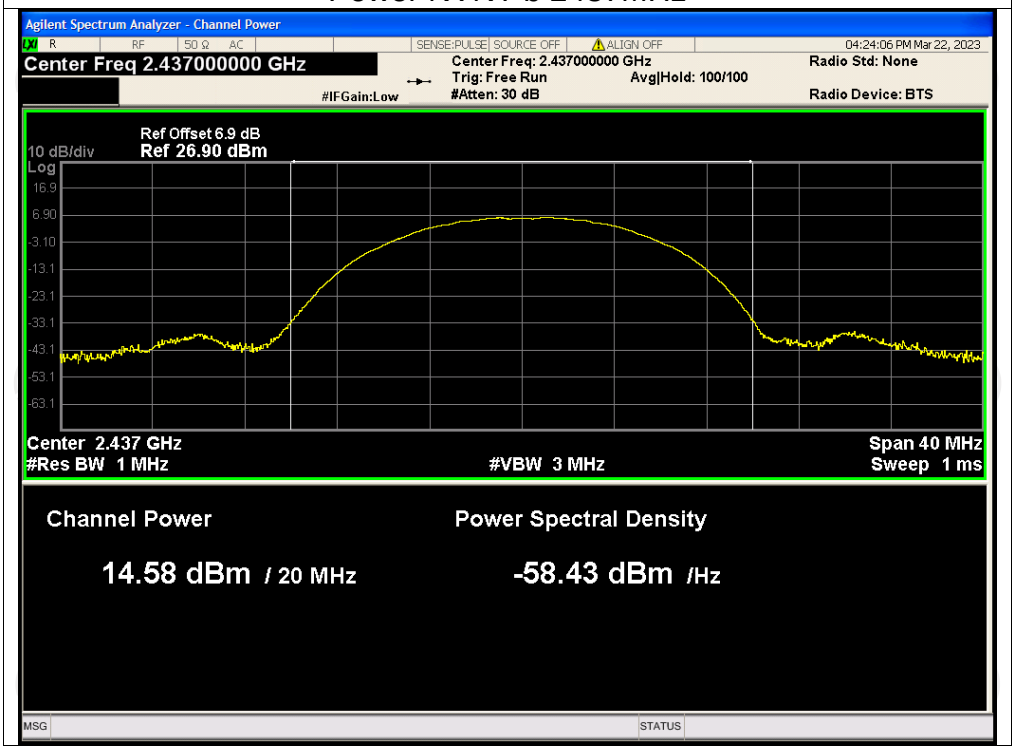
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	15.20	30	Pass
NVNT	b	2437	14.58	30	Pass
NVNT	b	2462	16.90	30	Pass
NVNT	g	2412	15.85	30	Pass
NVNT	g	2437	13.79	30	Pass
NVNT	g	2462	16.74	30	Pass
NVNT	n20	2412	14.42	30	Pass
NVNT	n20	2437	13.76	30	Pass
NVNT	n20	2462	14.60	30	Pass

Test Graphs

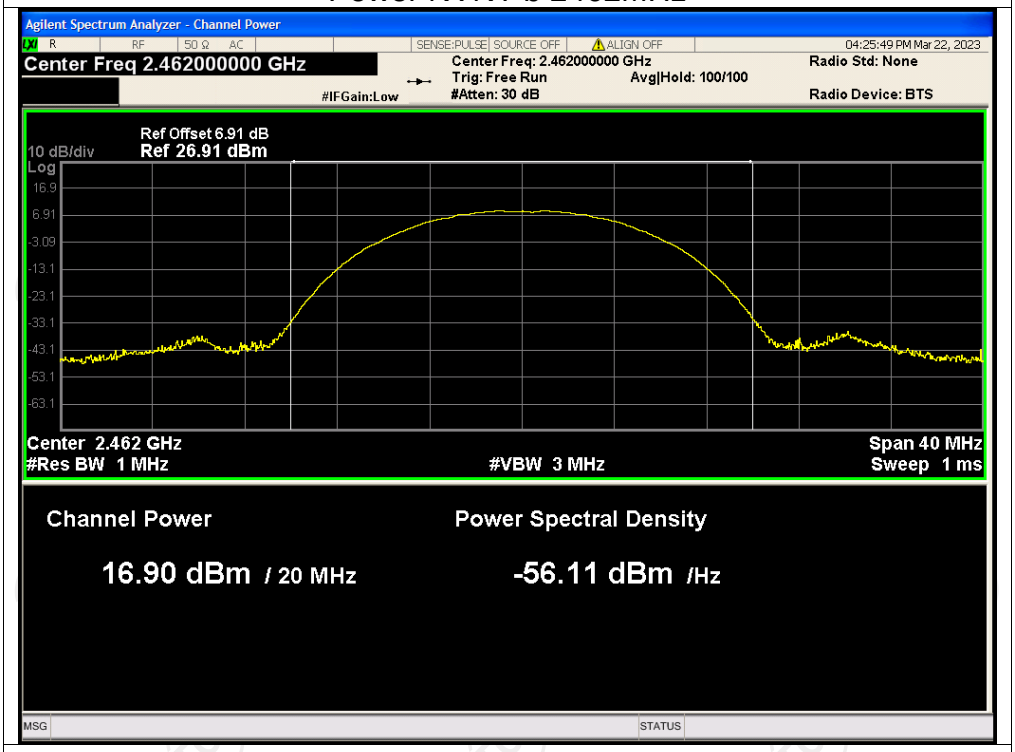
Power NVNT b 2412MHz



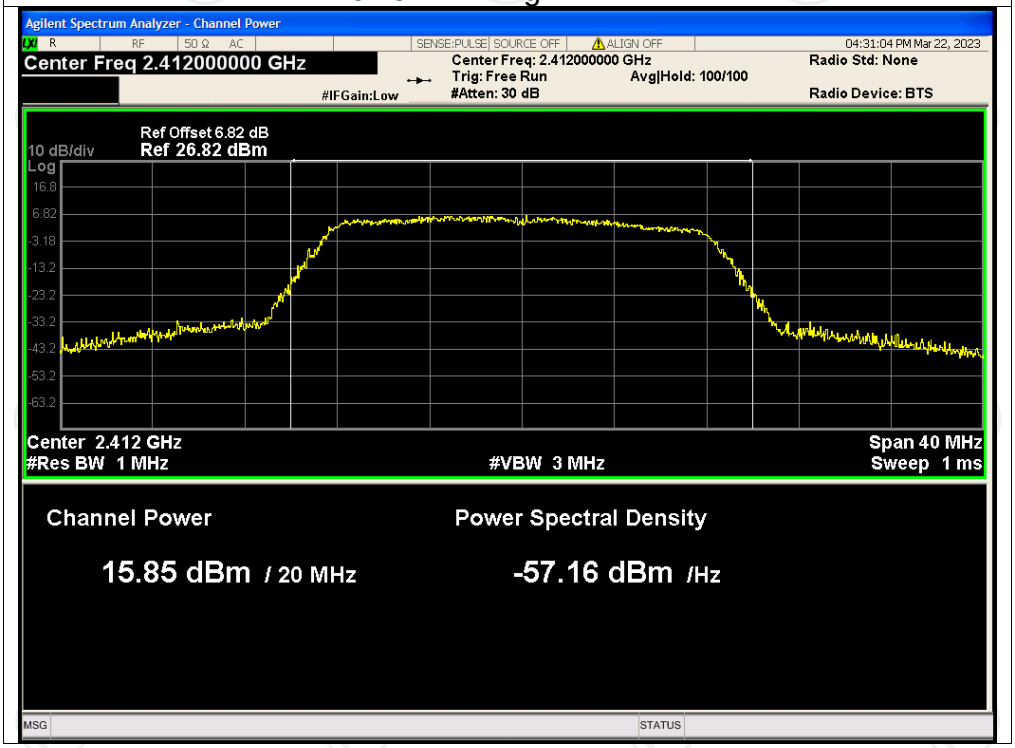
Power NVNT b 2437MHz



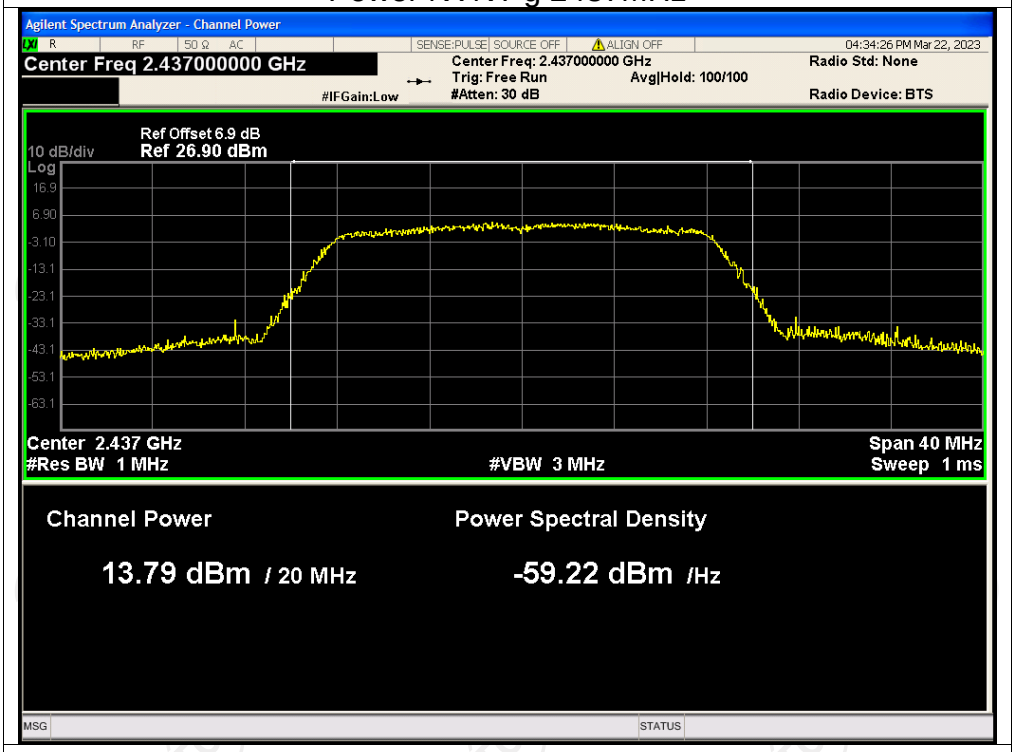
Power NVNT b 2462MHz



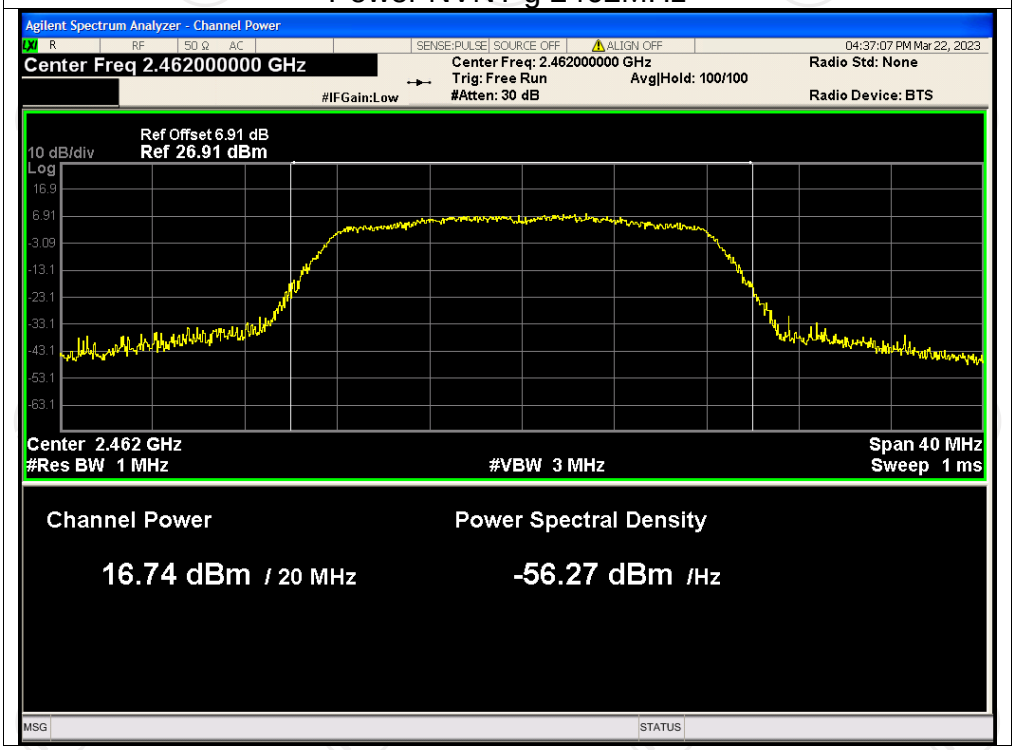
Power NVNT g 2412MHz



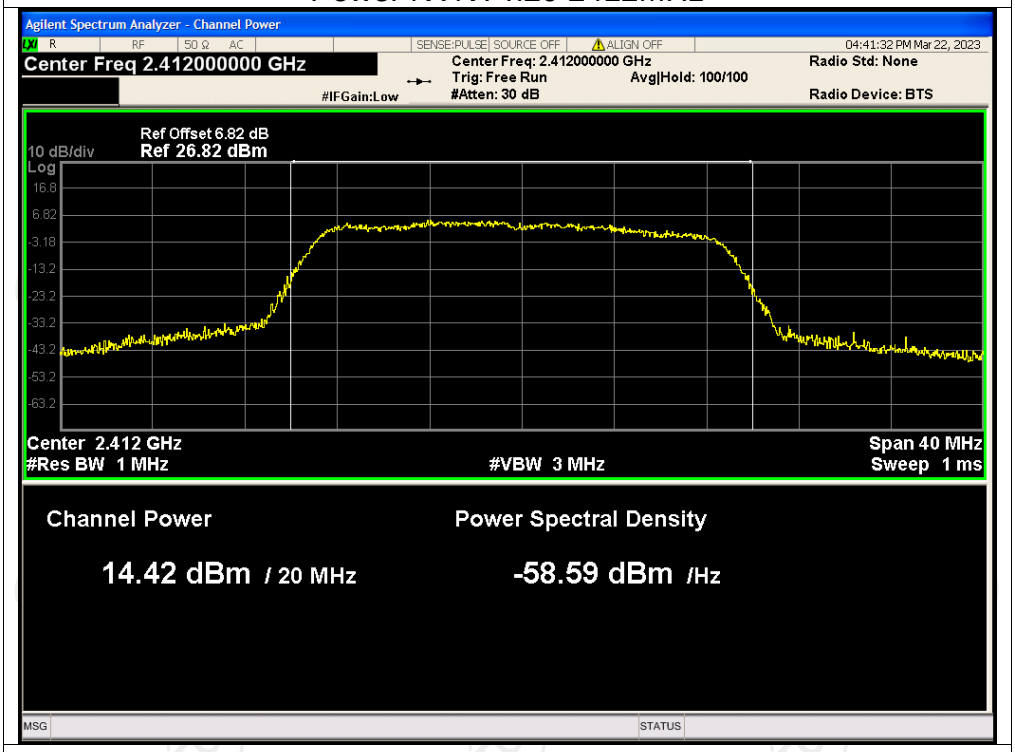
Power NVNT g 2437MHz



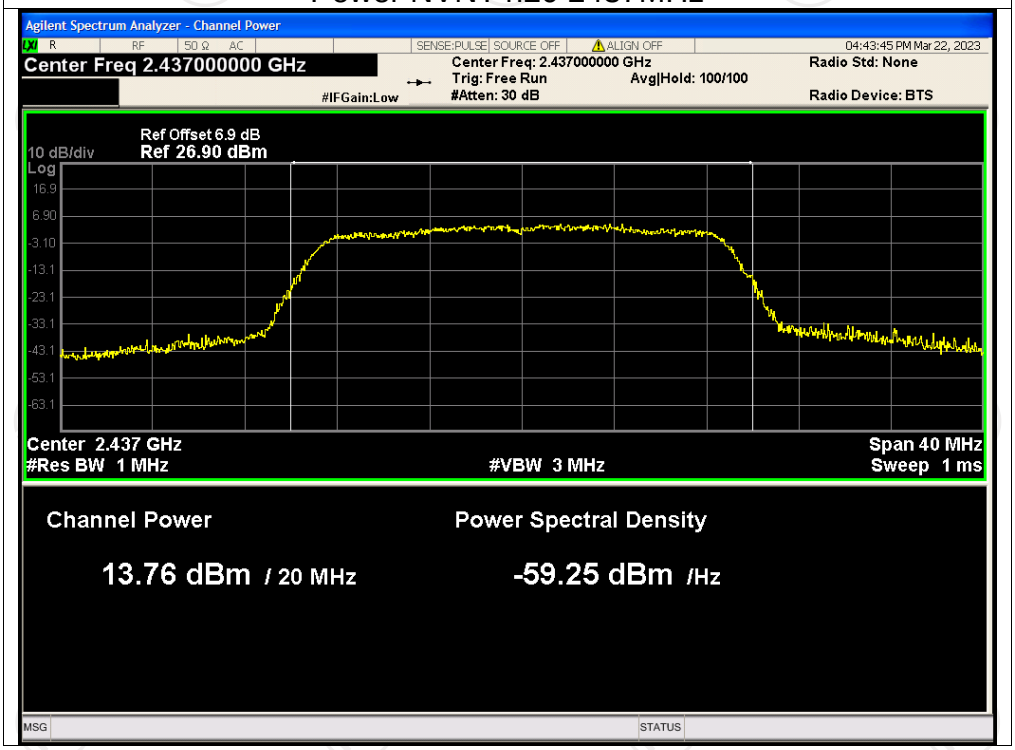
Power NVNT g 2462MHz



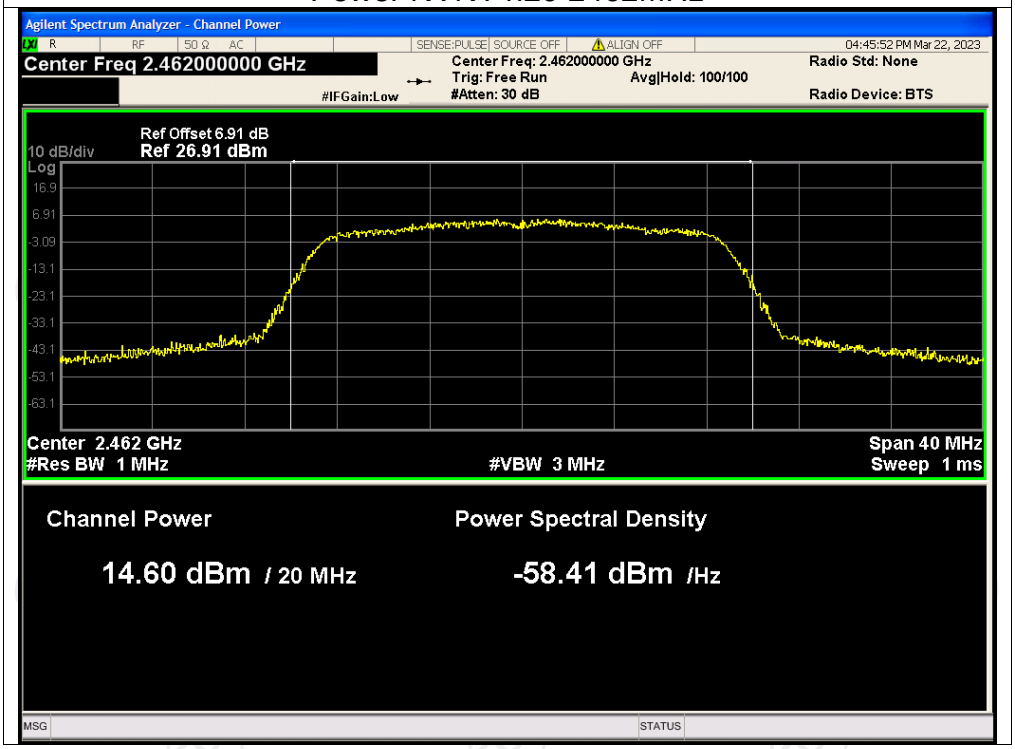
Power NVNT n20 2412MHz



Power NVNT n20 2437MHz



Power NVNT n20 2462MHz

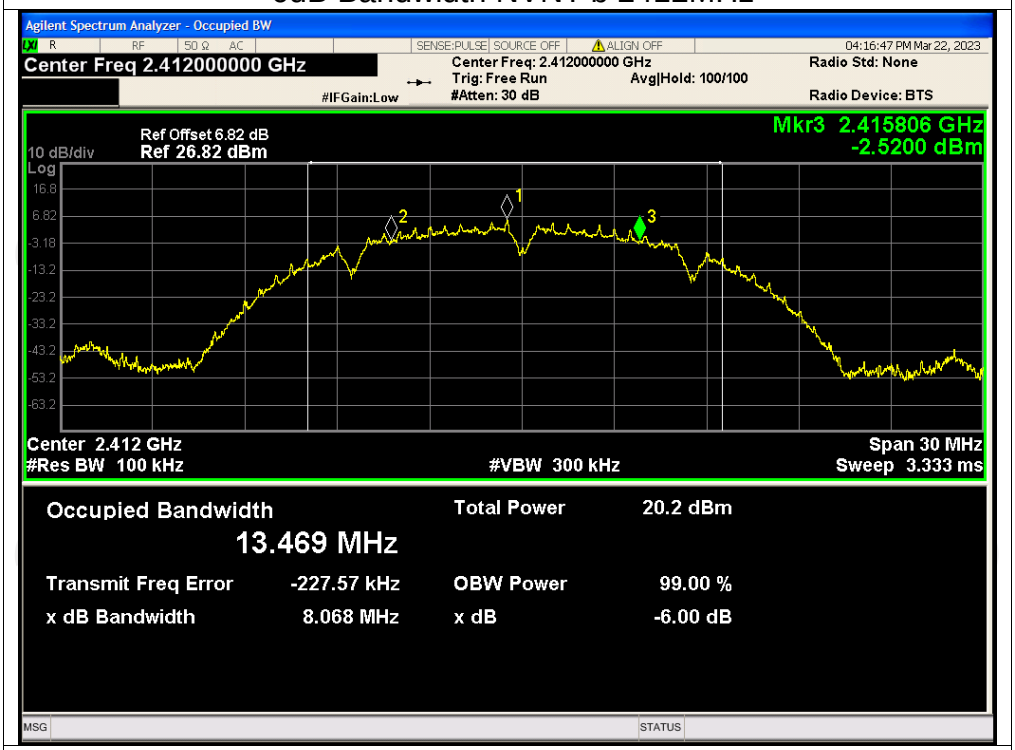


-6dB Bandwidth

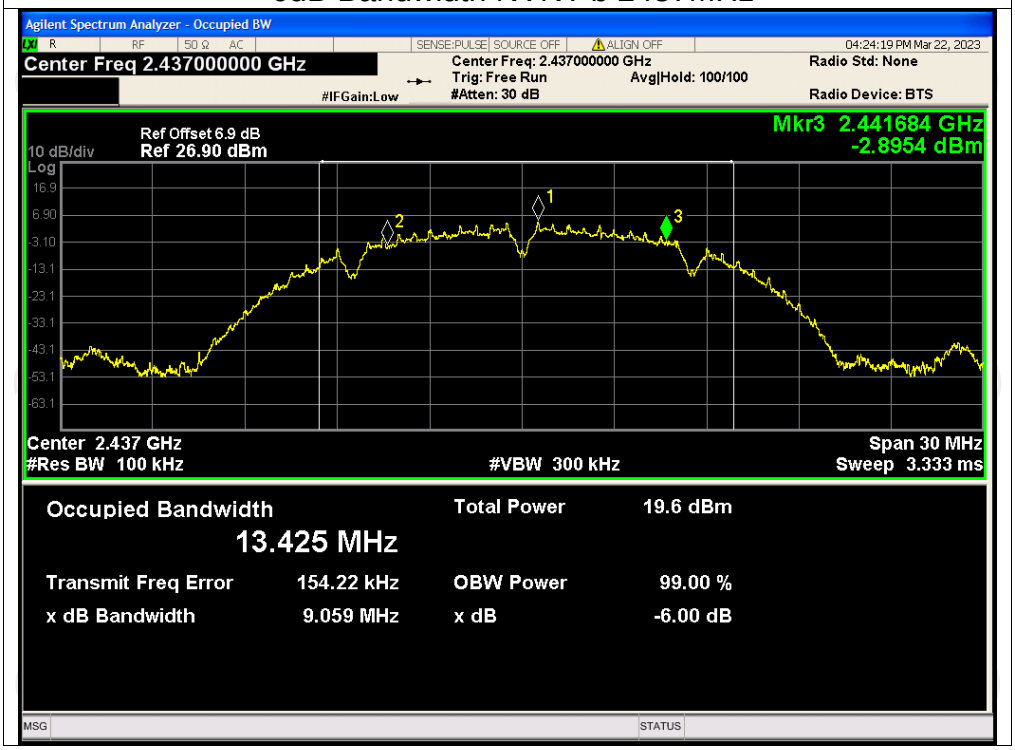
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.068	0.5	Pass
NVNT	b	2437	9.059	0.5	Pass
NVNT	b	2462	8.588	0.5	Pass
NVNT	g	2412	16.080	0.5	Pass
NVNT	g	2437	16.365	0.5	Pass
NVNT	g	2462	16.269	0.5	Pass
NVNT	n20	2412	16.662	0.5	Pass
NVNT	n20	2437	17.057	0.5	Pass
NVNT	n20	2462	16.534	0.5	Pass

Test Graphs

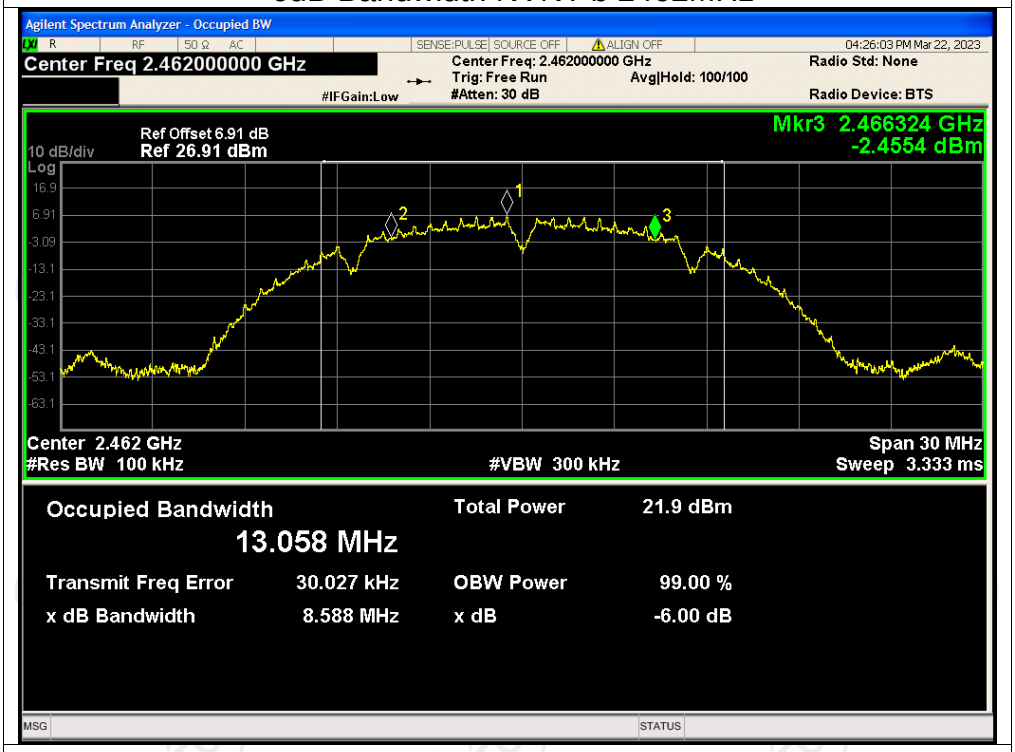
-6dB Bandwidth NVNT b 2412MHz



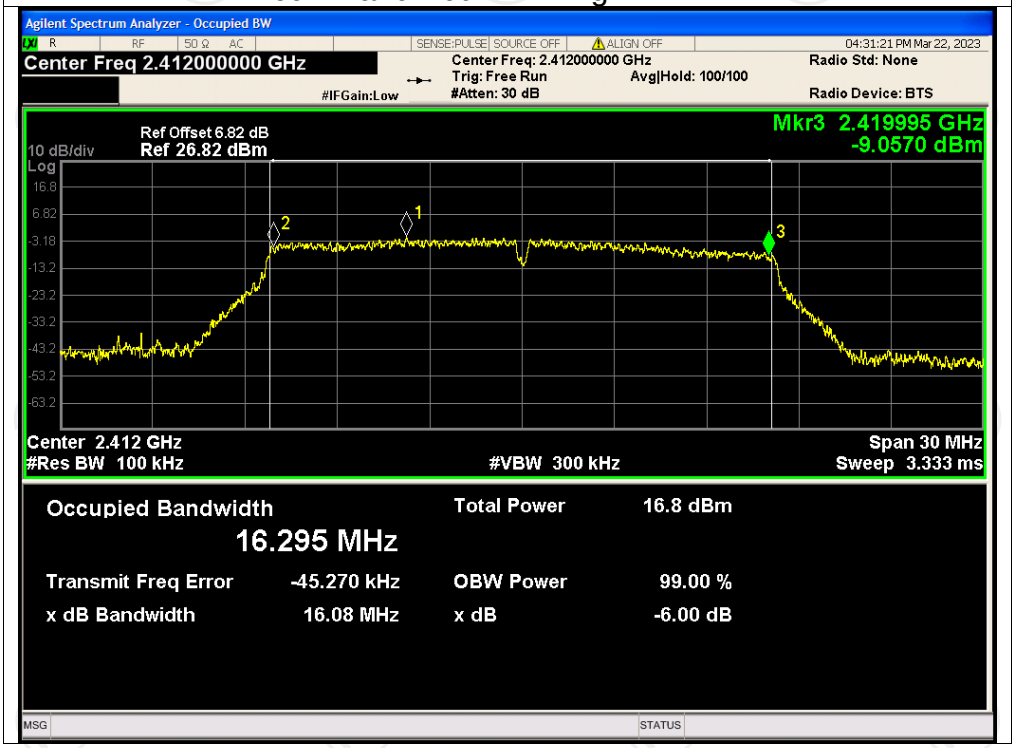
-6dB Bandwidth NVNT b 2437MHz



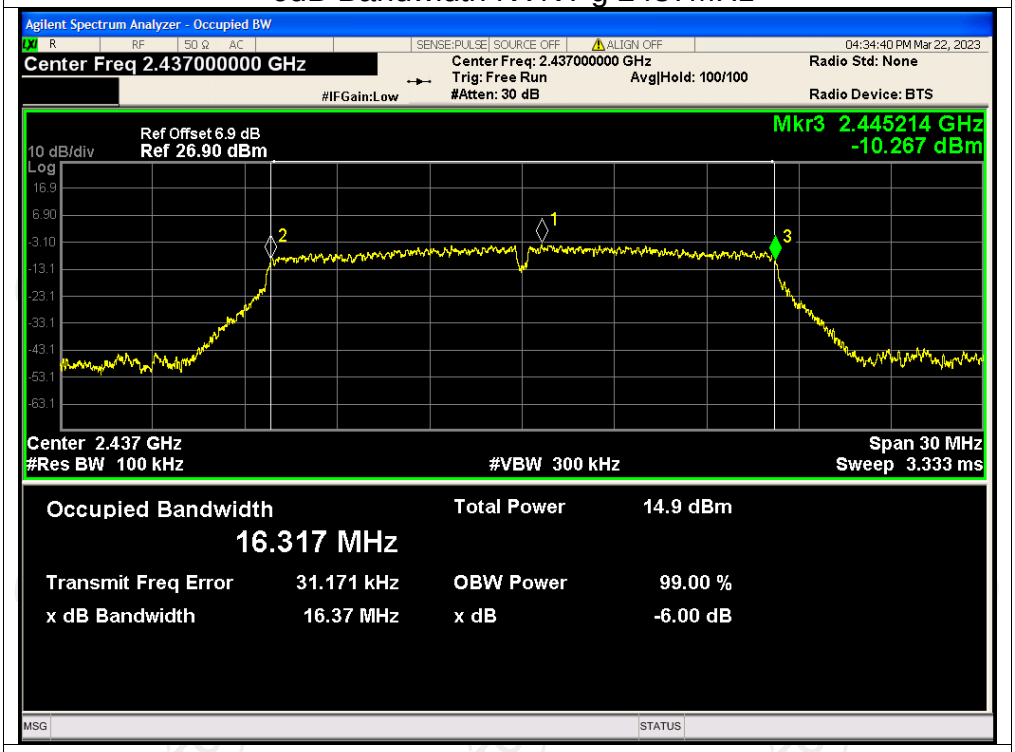
-6dB Bandwidth NVNT b 2462MHz



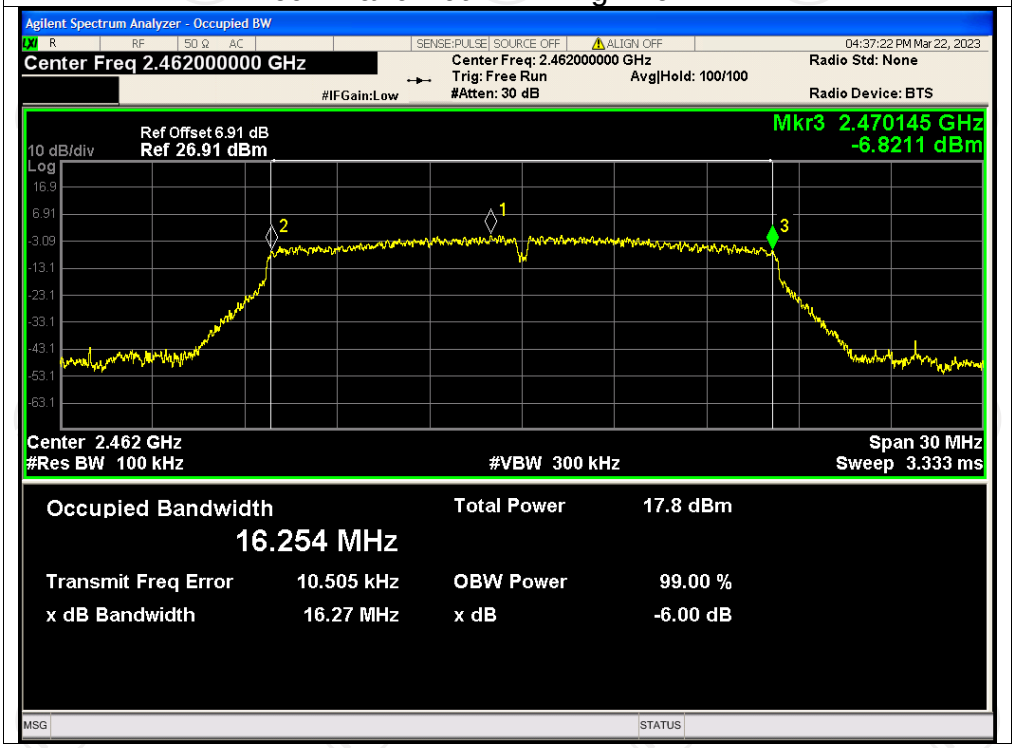
-6dB Bandwidth NVNT g 2412MHz



-6dB Bandwidth NVNT g 2437MHz

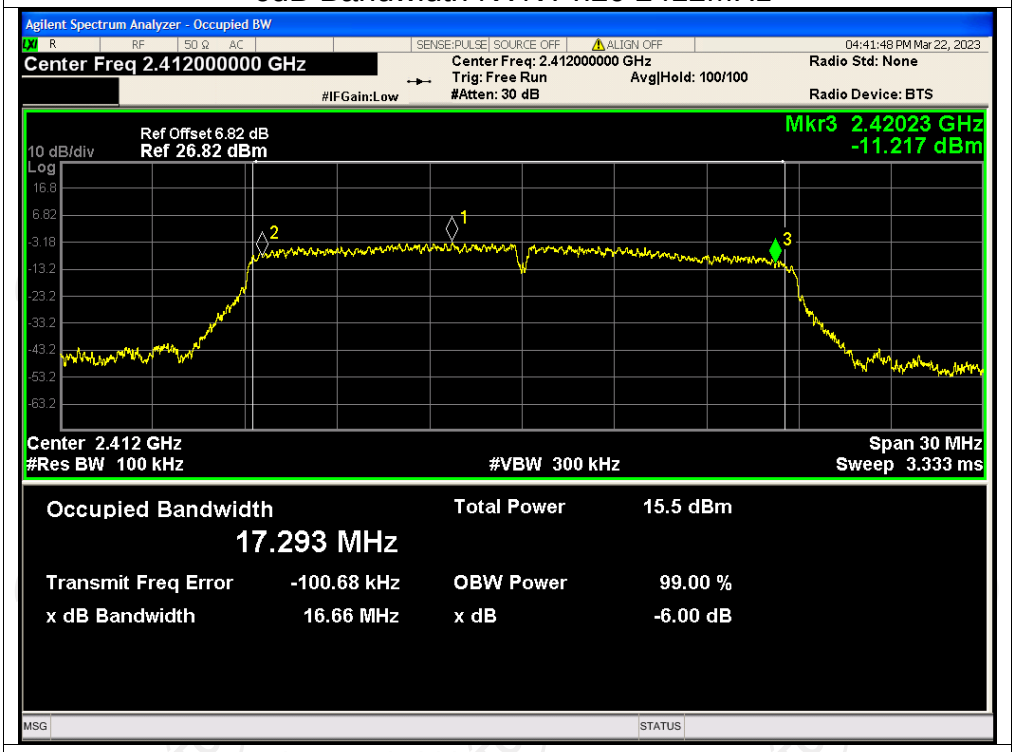


-6dB Bandwidth NVNT g 2462MHz

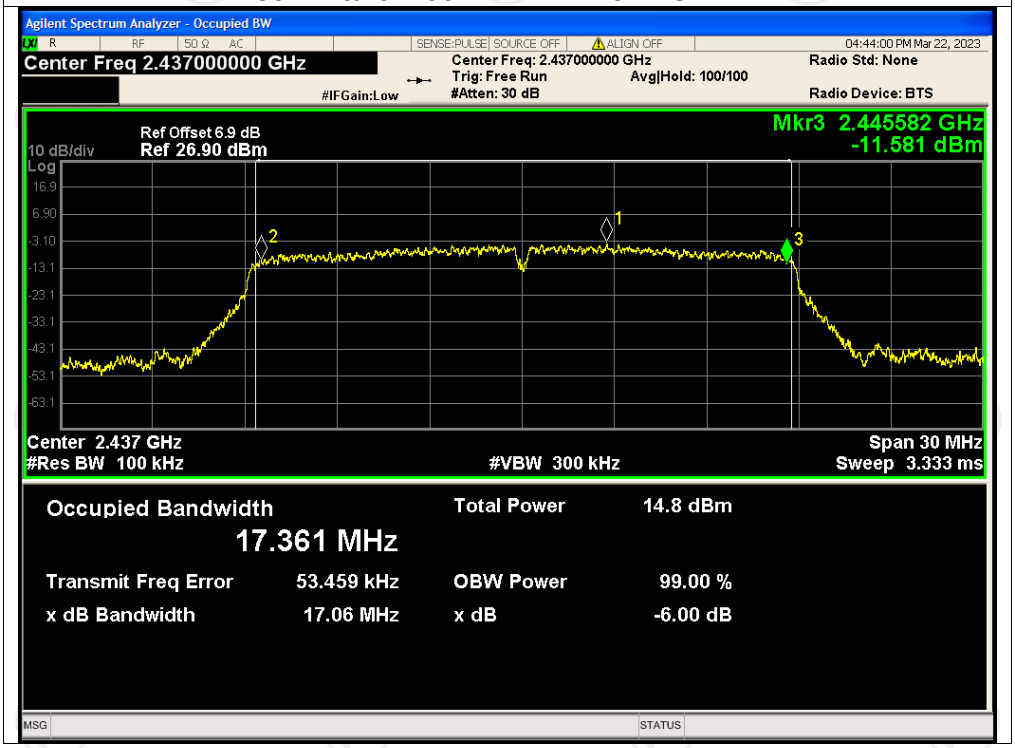


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

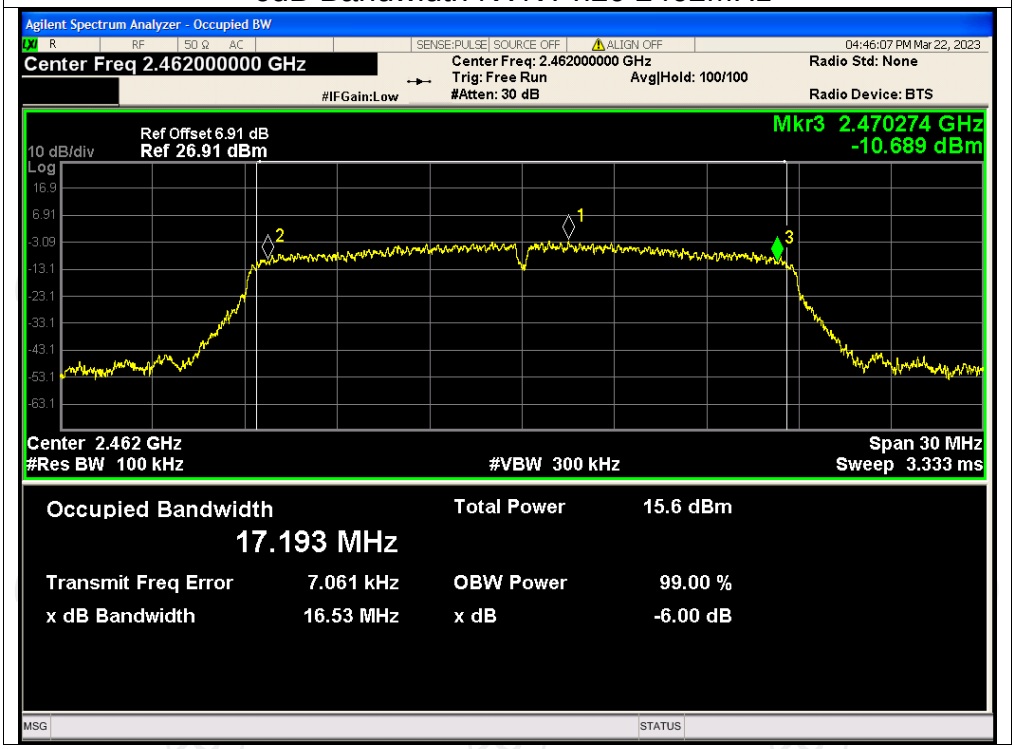
-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz



Maximum Power Spectral Density Level

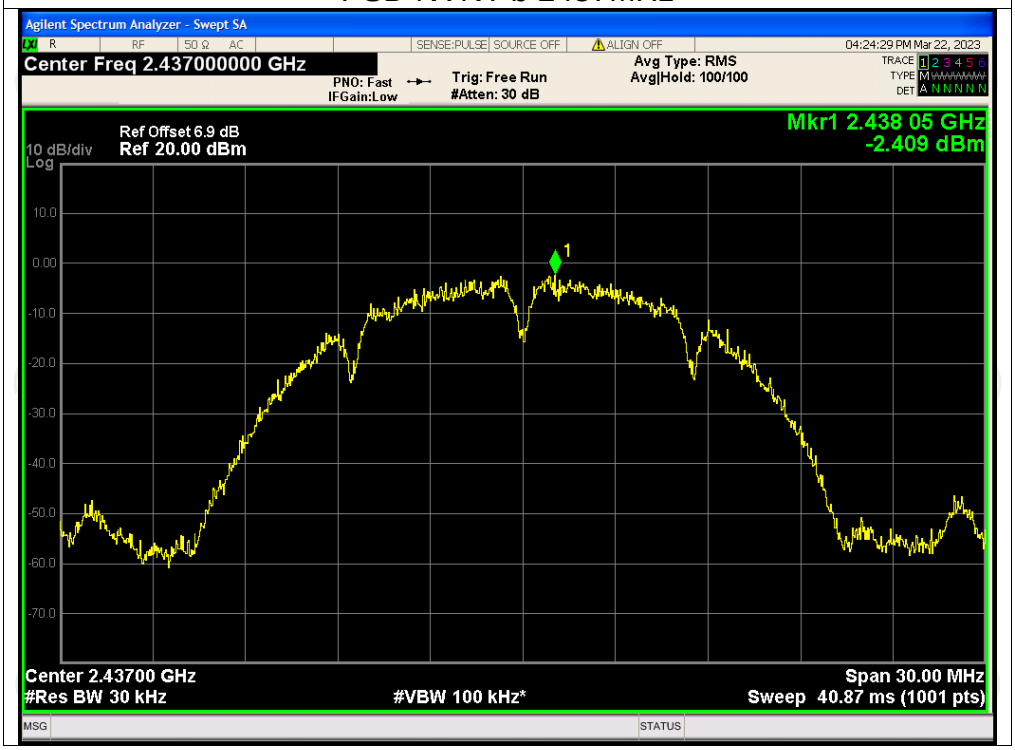
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/30kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-1.08	-11.08	8	Pass
NVNT	b	2437	-2.41	-12.41	8	Pass
NVNT	b	2462	0.60	-9.40	8	Pass
NVNT	g	2412	-6.22	-16.22	8	Pass
NVNT	g	2437	-7.95	-17.95	8	Pass
NVNT	g	2462	-5.13	-15.13	8	Pass
NVNT	n20	2412	-7.47	-17.47	8	Pass
NVNT	n20	2437	-8.93	-18.93	8	Pass
NVNT	n20	2462	-5.65	-15.65	8	Pass

Note: Conducted PSD (dBm/3kHz) = Conducted PSD (dBm/30kHz) +10log(3kHz/30kHz)

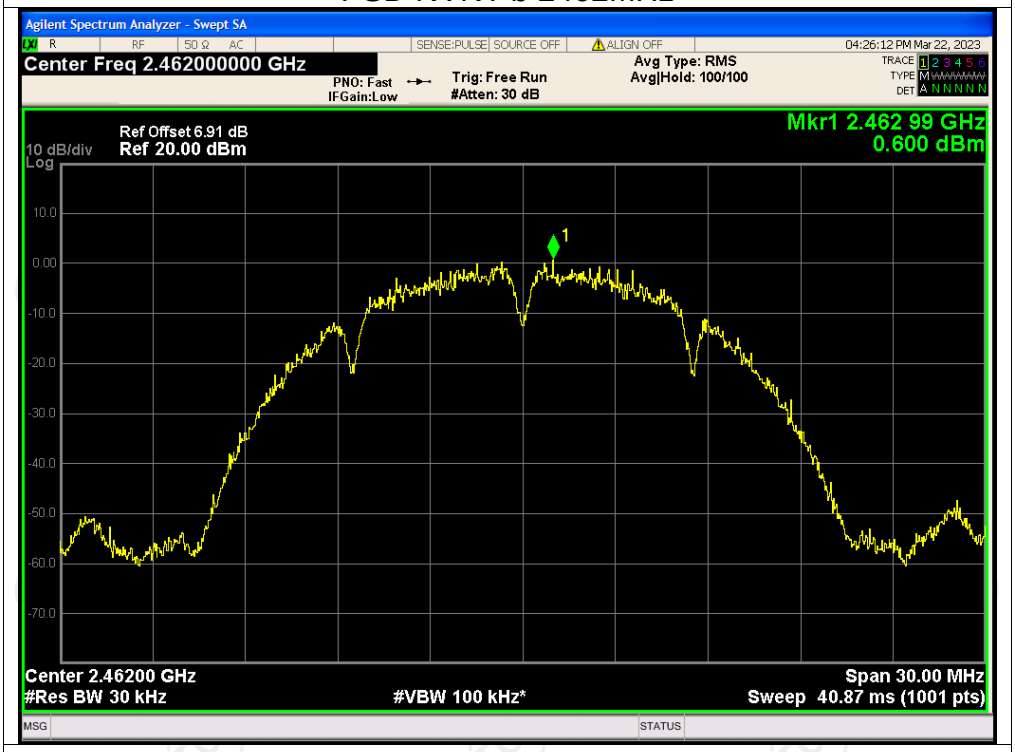
Test Graphs

PSD NVNT b 2412MHz

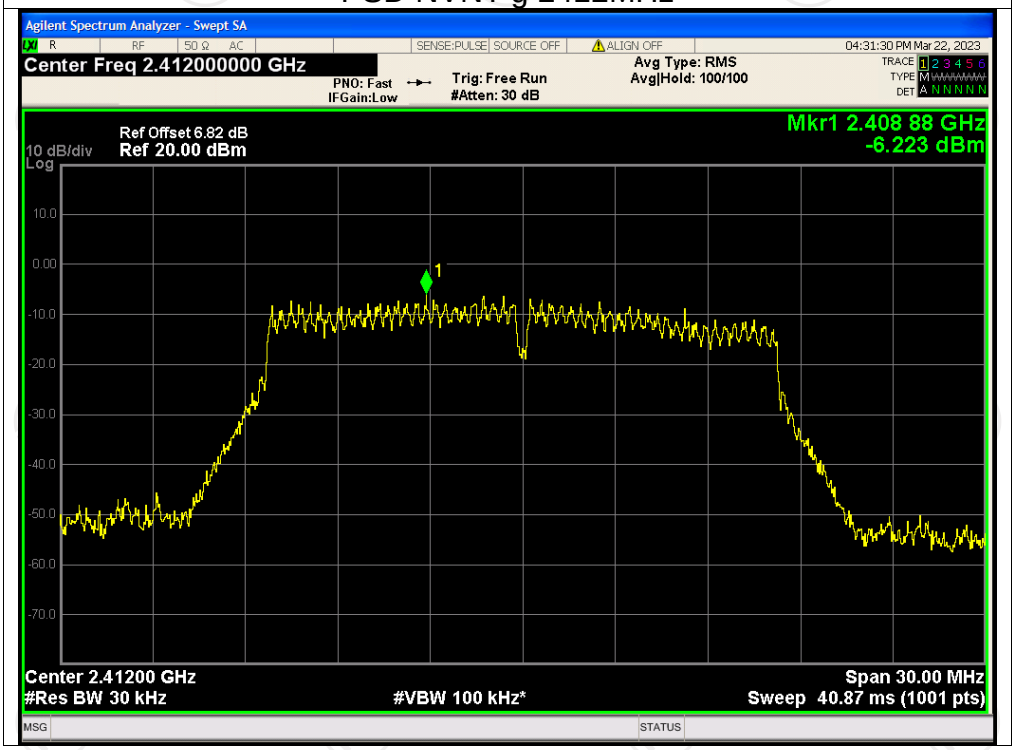
PSD NVNT b 2437MHz



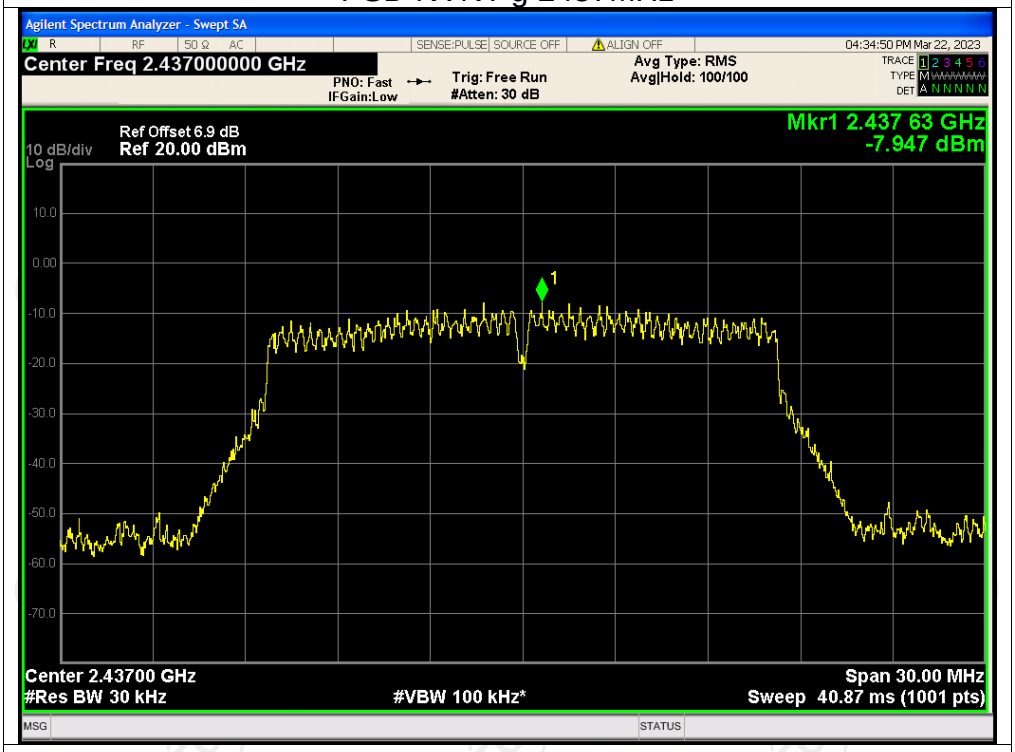
PSD NVNT b 2462MHz



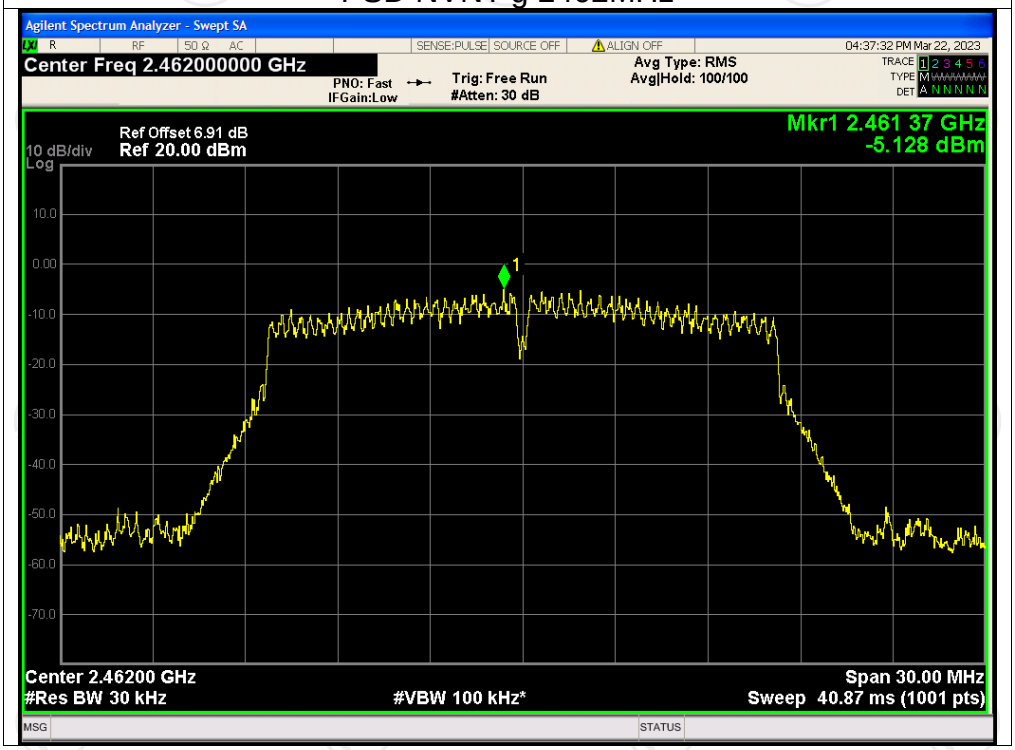
PSD NVNT g 2412MHz



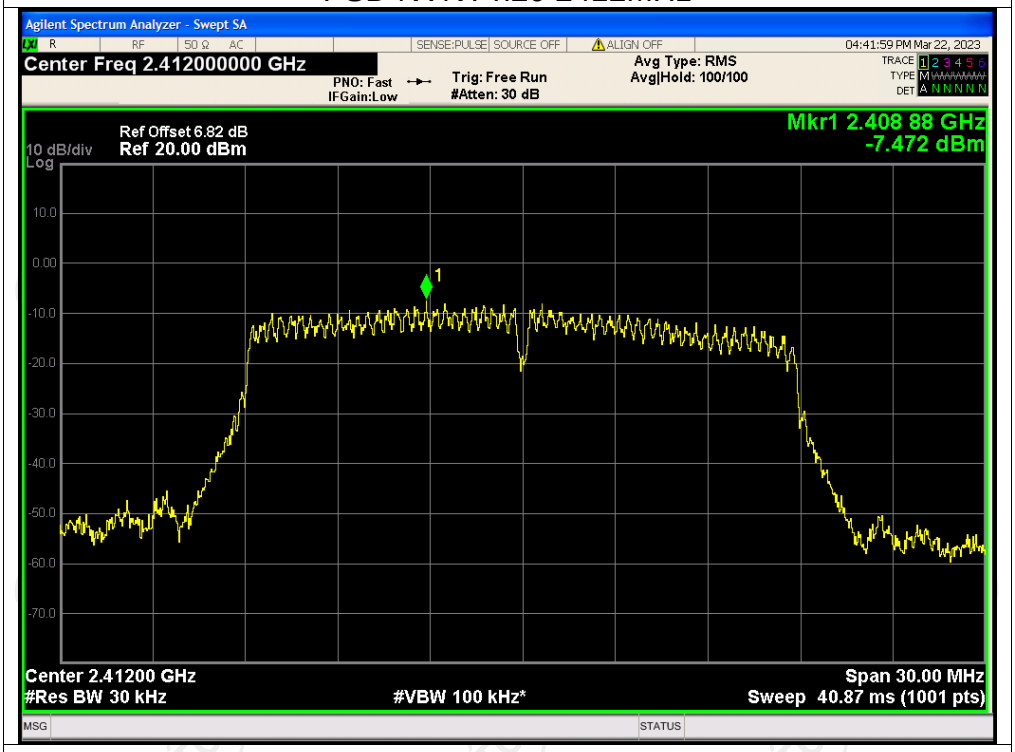
PSD NVNT g 2437MHz



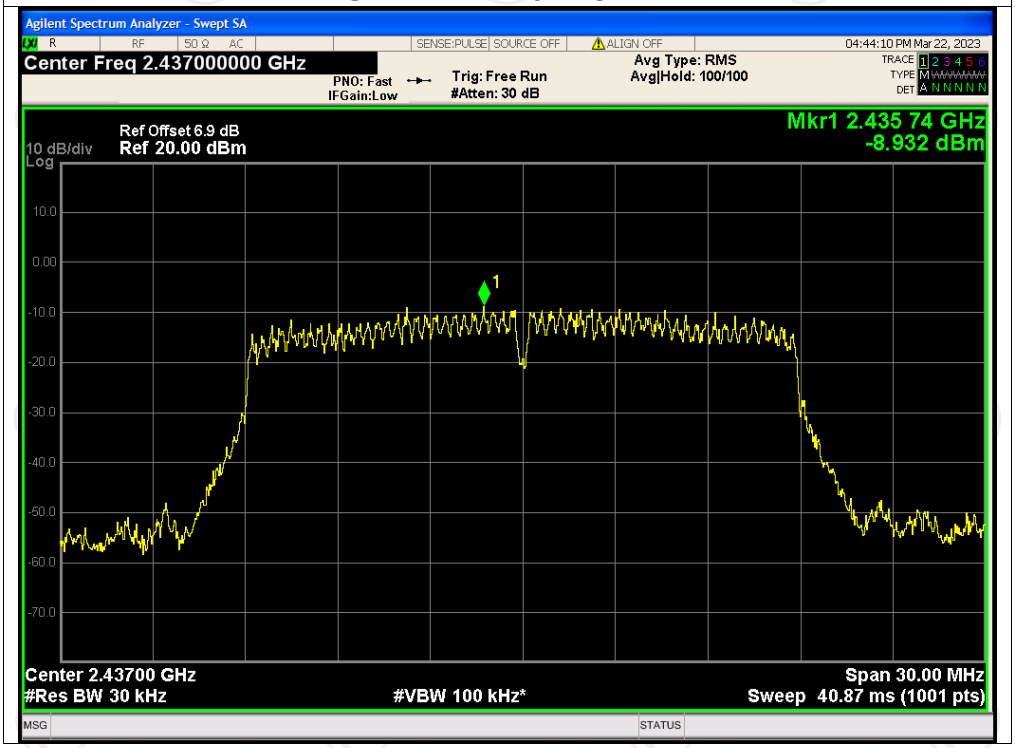
PSD NVNT g 2462MHz



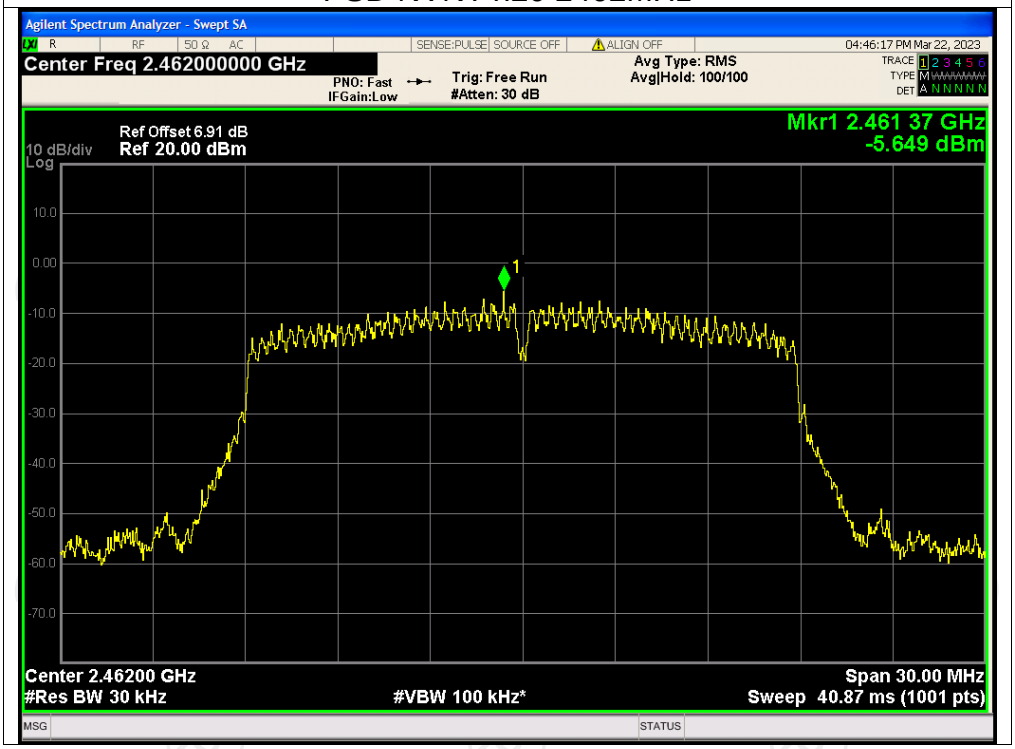
PSD NVNT n20 2412MHz



PSD NVNT n20 2437MHz



PSD NVNT n20 2462MHz

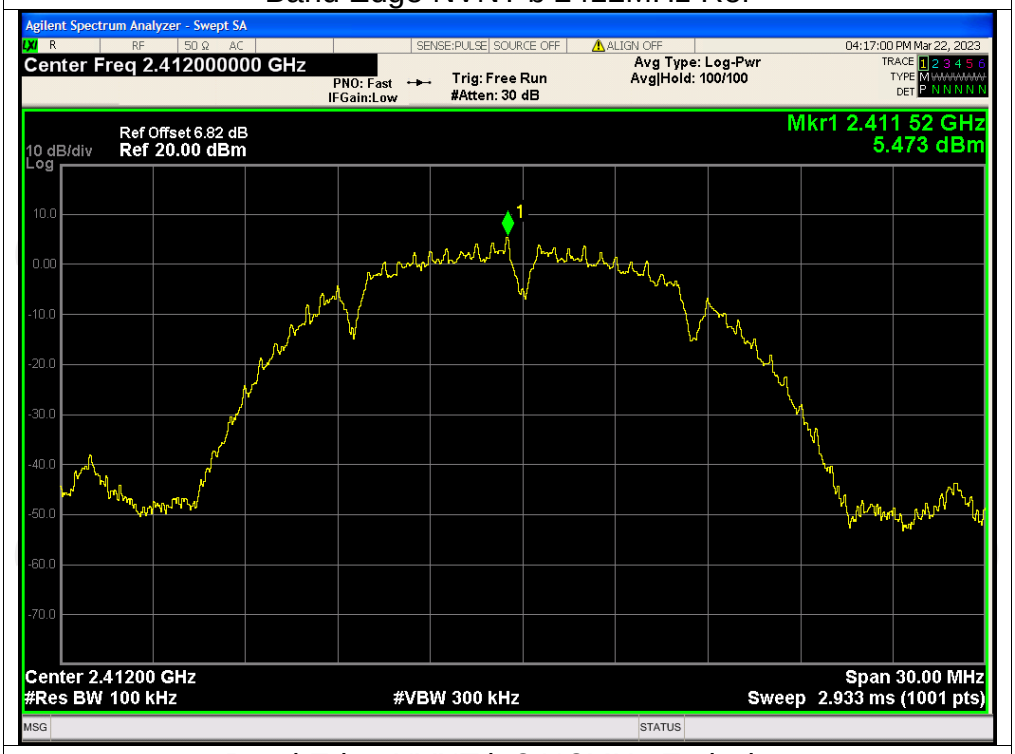


Band Edge

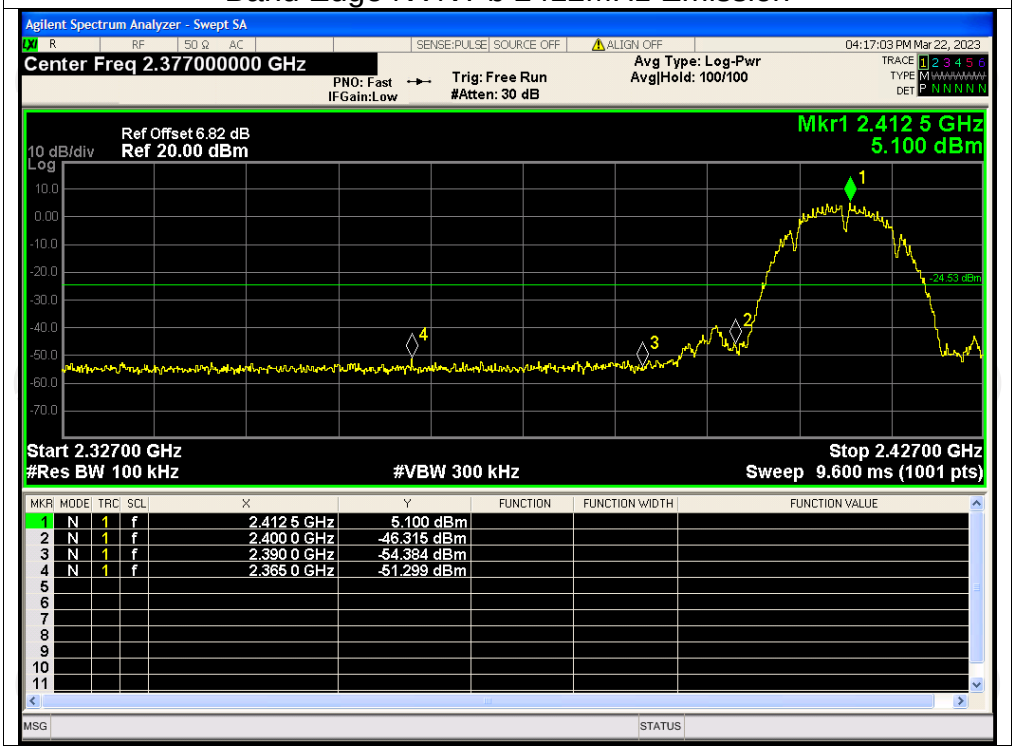
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-56.76	-30	Pass
NVNT	b	2462	-58.56	-30	Pass
NVNT	g	2412	-48.27	-30	Pass
NVNT	g	2462	-51.40	-30	Pass
NVNT	n20	2412	-48.60	-30	Pass
NVNT	n20	2462	-48.58	-30	Pass

Test Graphs

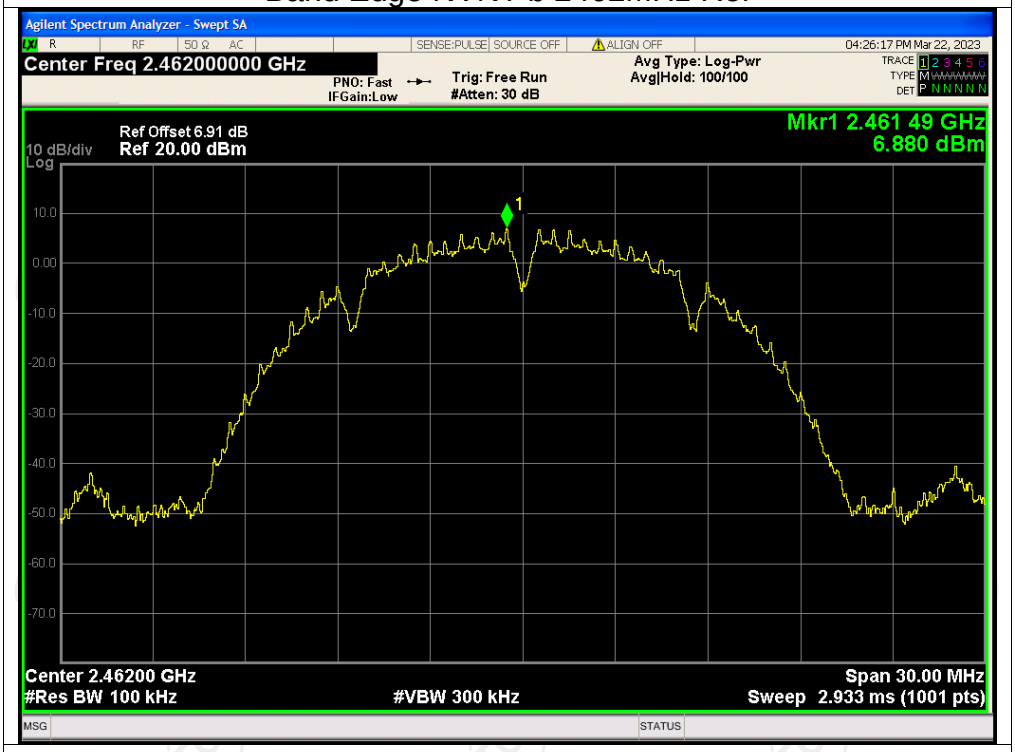
Band Edge NVNT b 2412MHz Ref



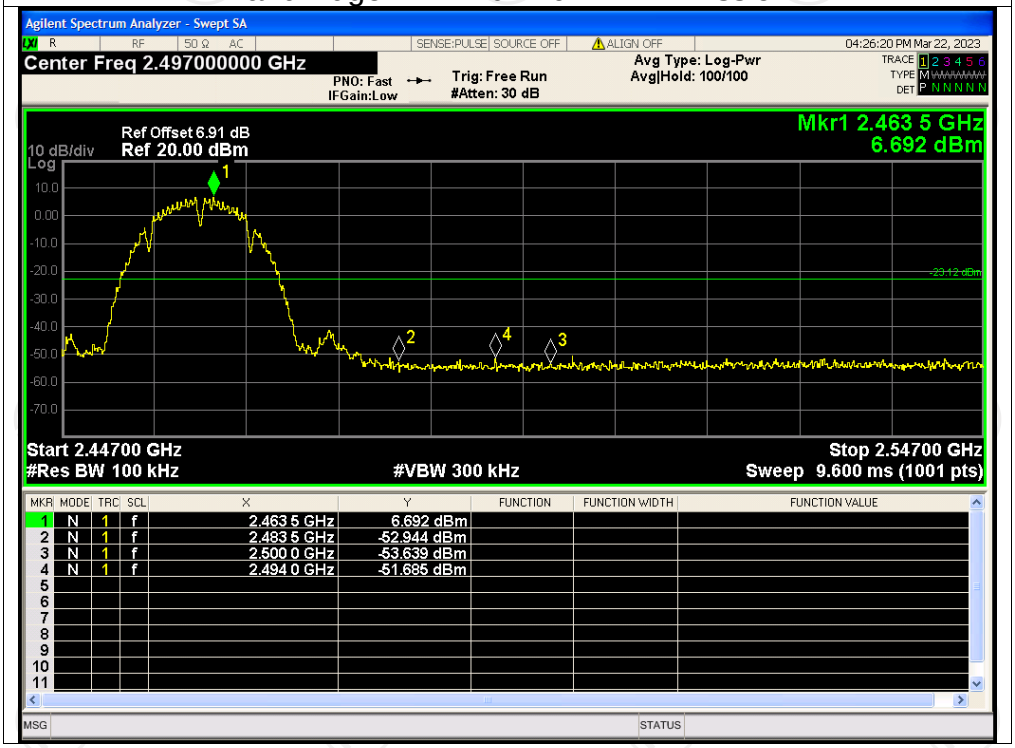
Band Edge NVNT b 2412MHz Emission



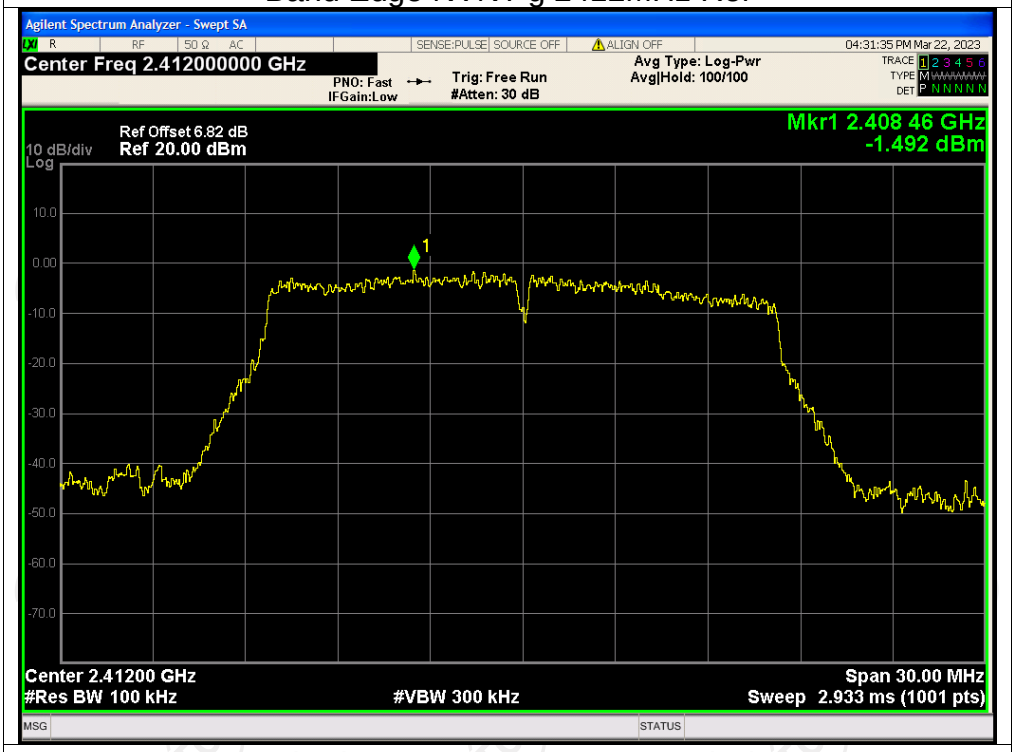
Band Edge NVNT b 2462MHz Ref



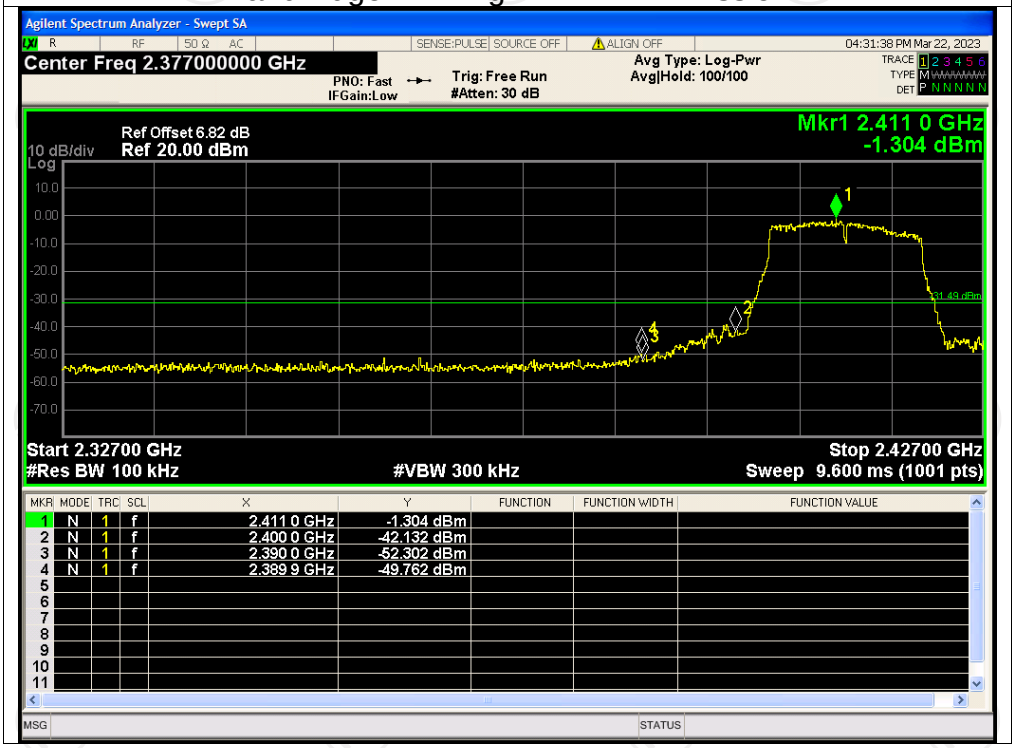
Band Edge NVNT b 2462MHz Emission



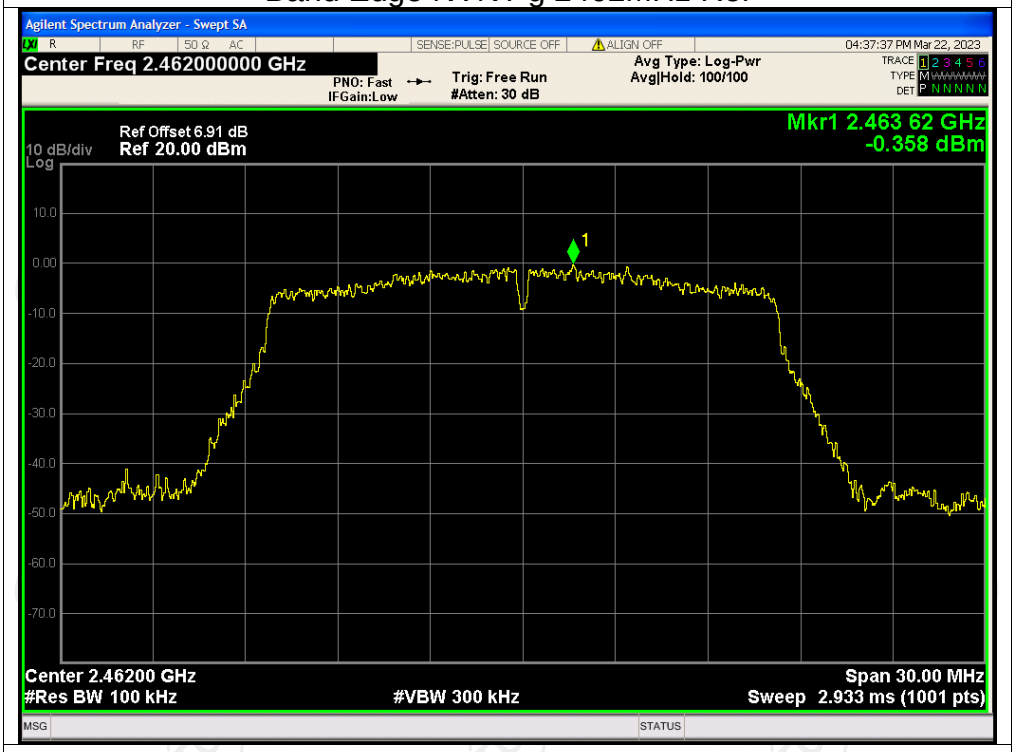
Band Edge NVNT g 2412MHz Ref



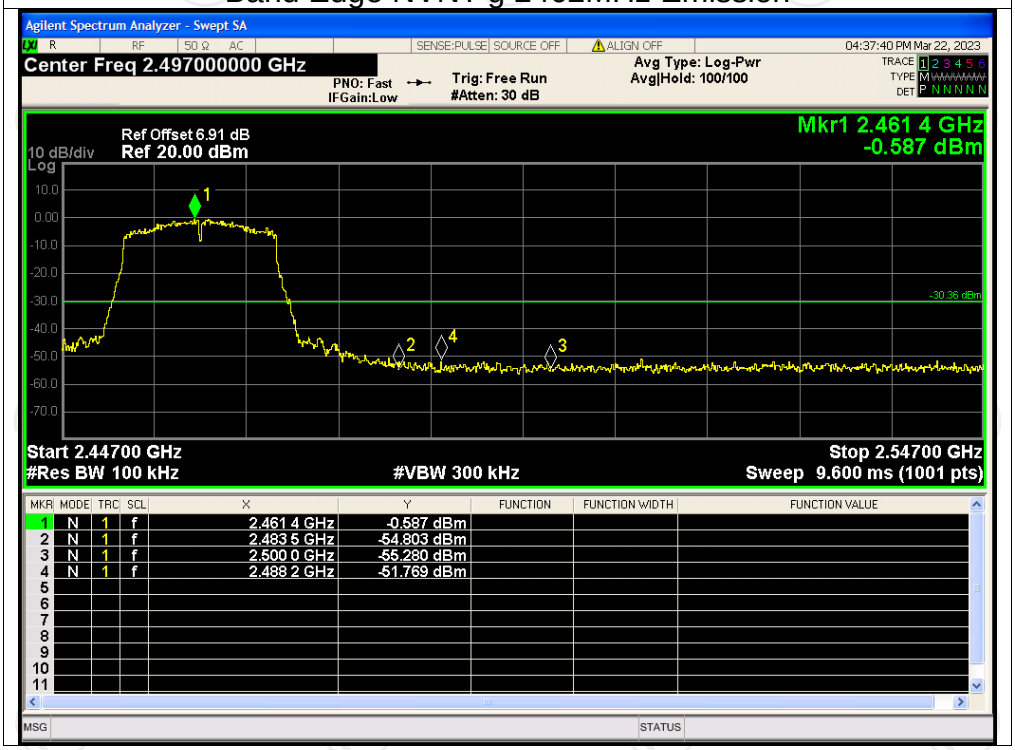
Band Edge NVNT g 2412MHz Emission



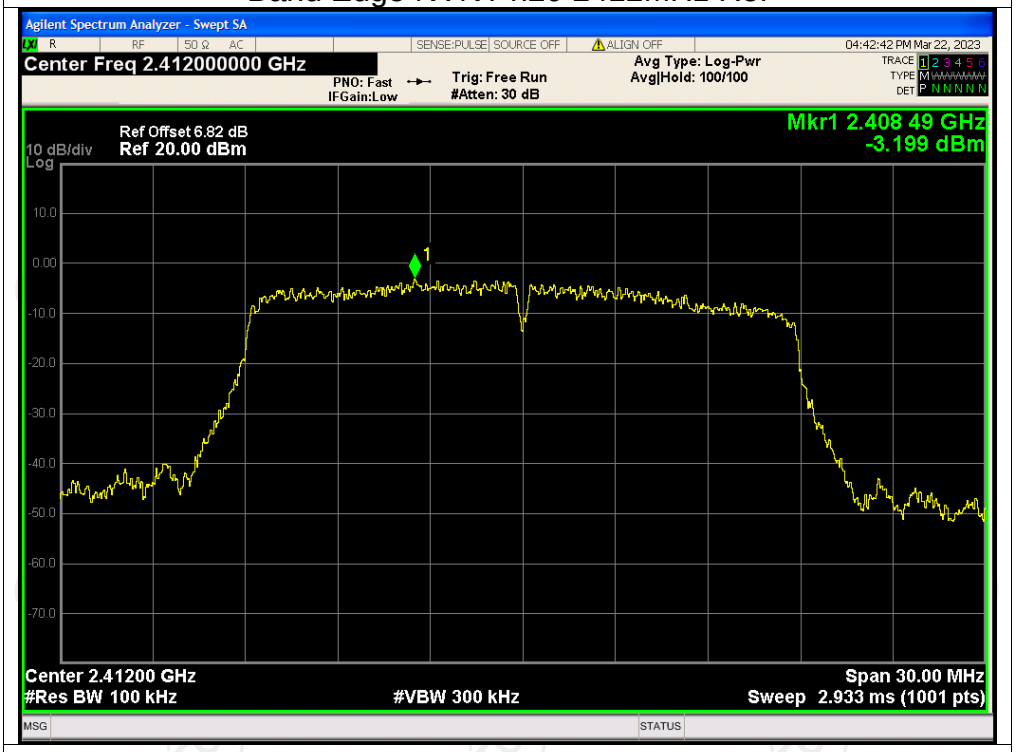
Band Edge NVNT g 2462MHz Ref



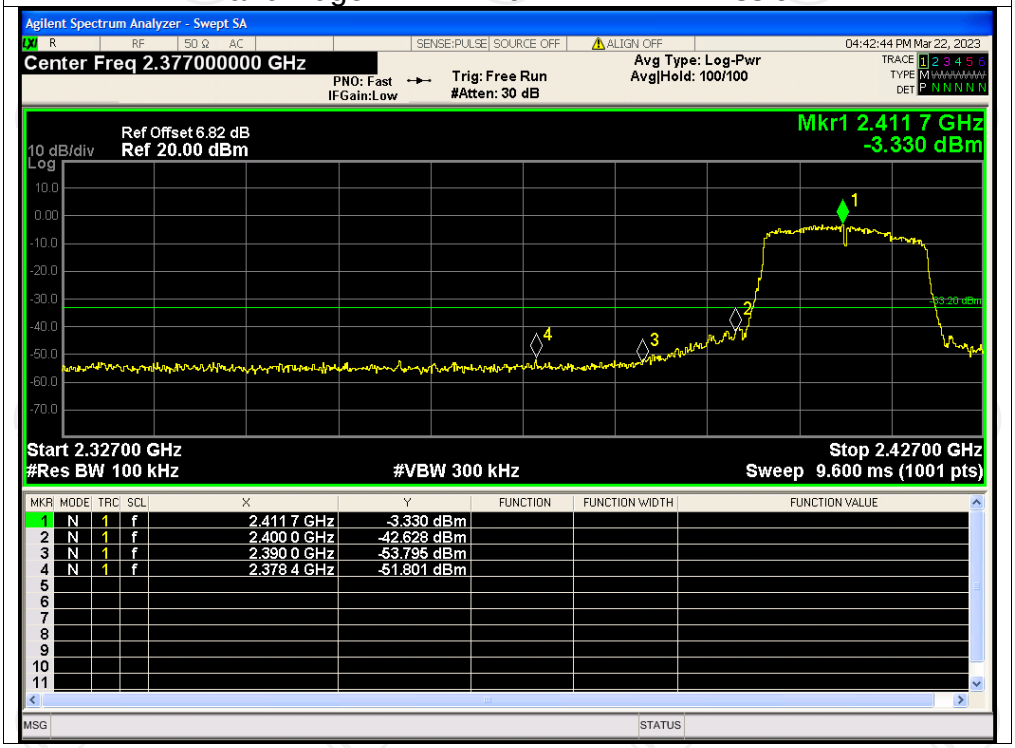
Band Edge NVNT g 2462MHz Emission



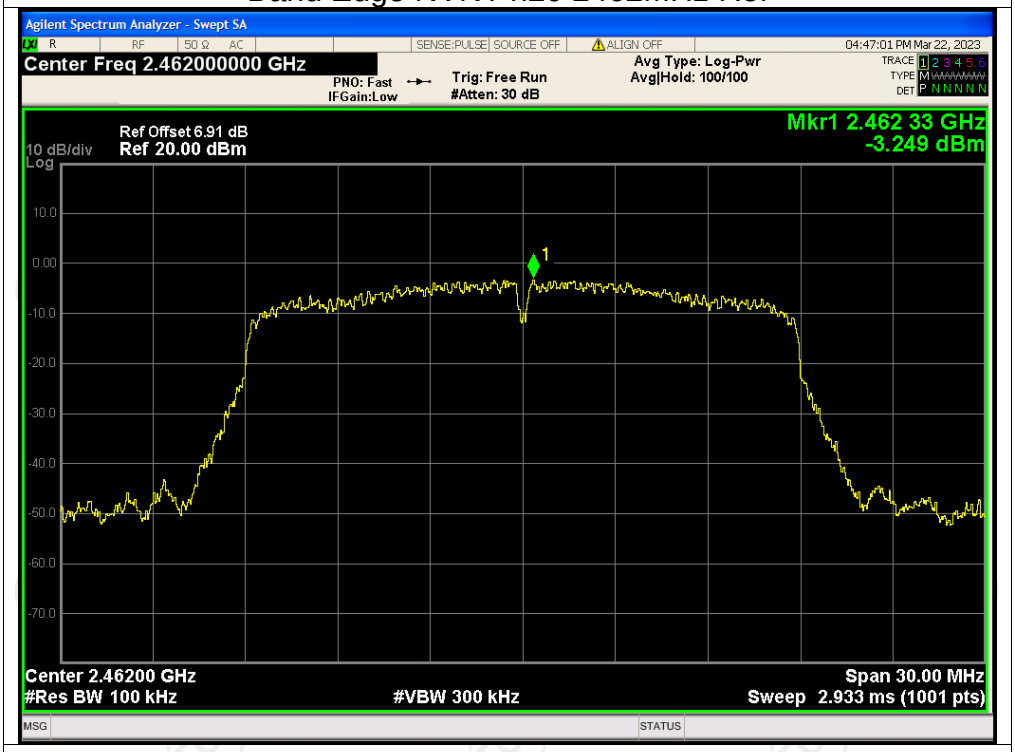
Band Edge NVNT n20 2412MHz Ref



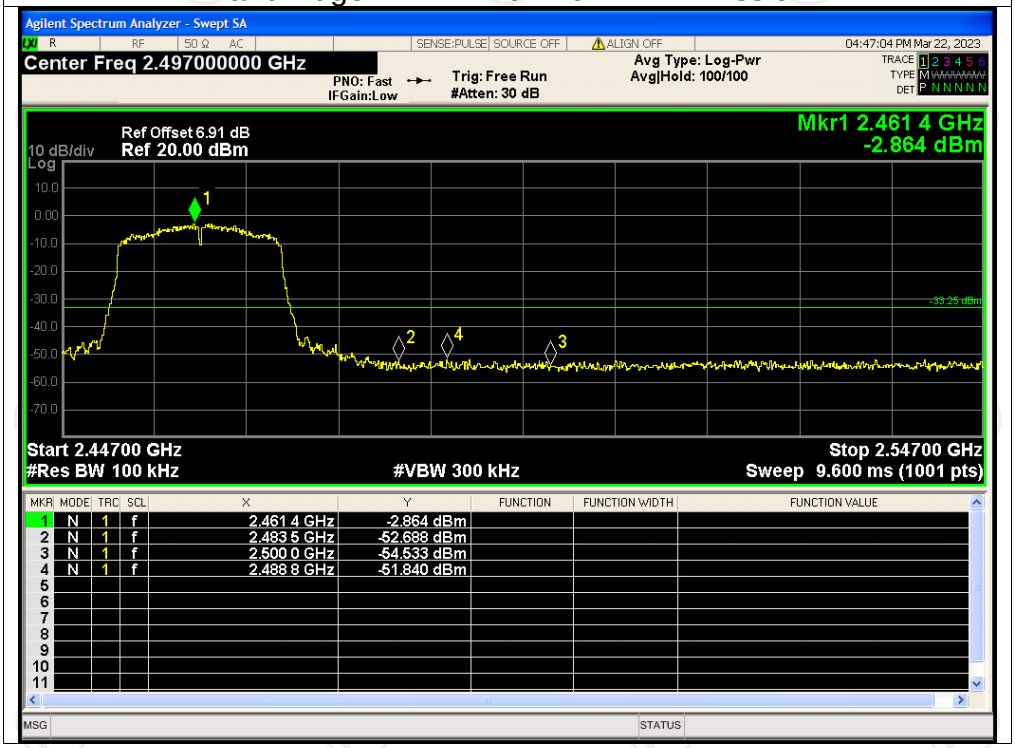
Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz Ref



Band Edge NVNT n20 2462MHz Emission

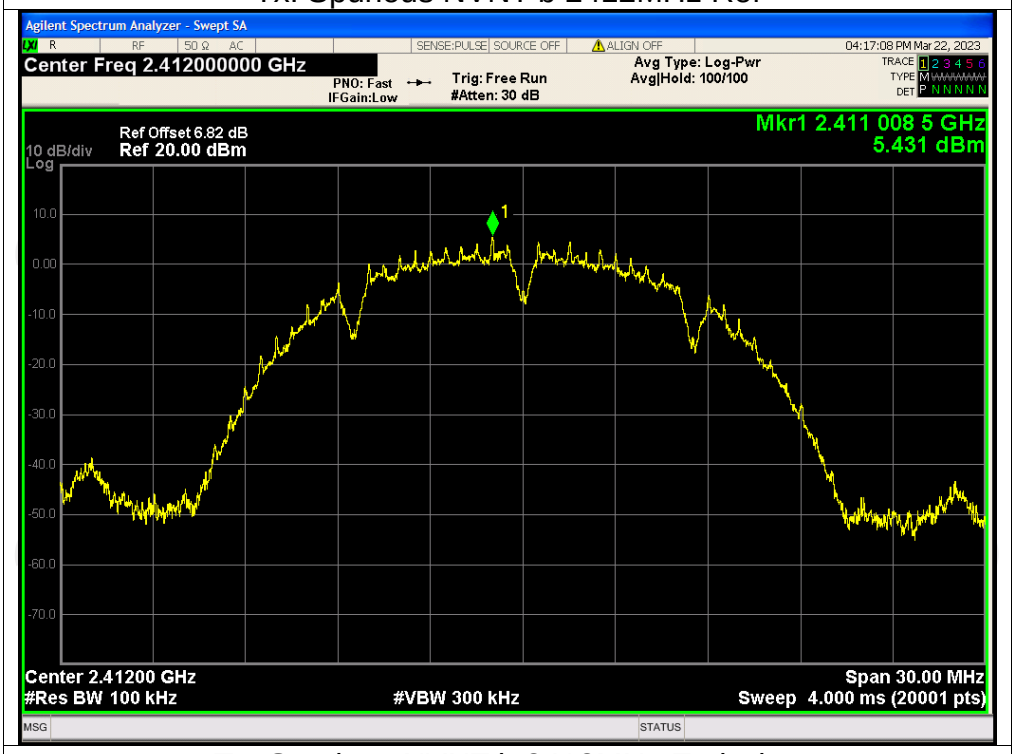


Conducted RF Spurious Emission

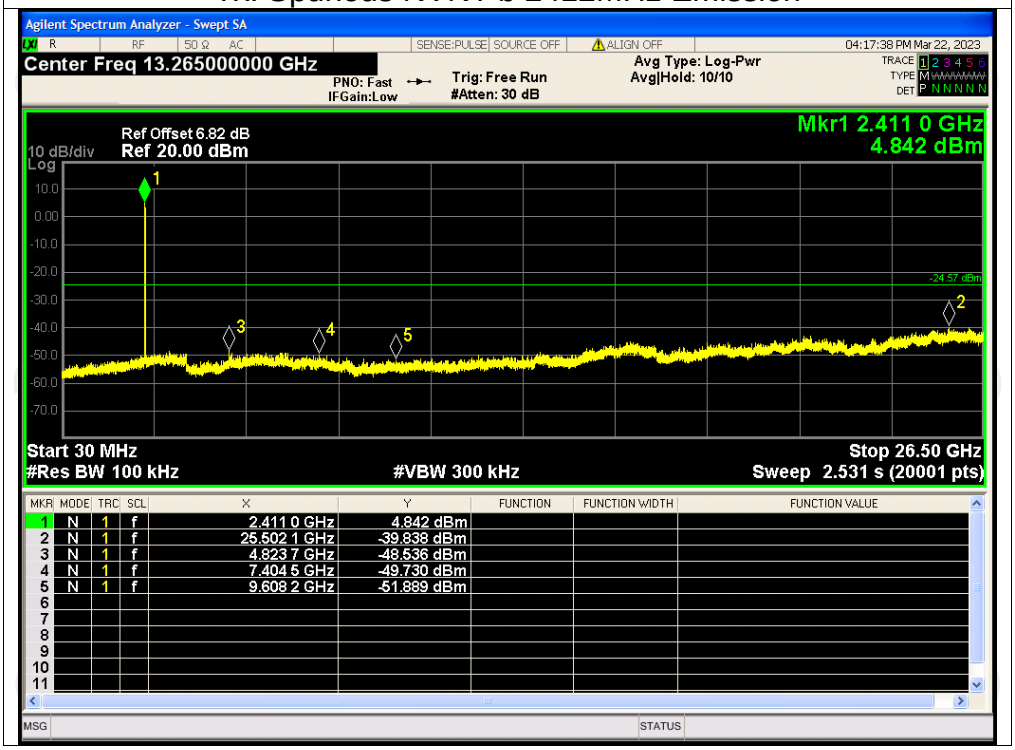
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-45.26	-30	Pass
NVNT	b	2437	-44.41	-30	Pass
NVNT	b	2462	-47.05	-30	Pass
NVNT	g	2412	-38.58	-30	Pass
NVNT	g	2437	-36.07	-30	Pass
NVNT	g	2462	-49.02	-30	Pass
NVNT	n20	2412	-36.57	-30	Pass
NVNT	n20	2437	-35.51	-30	Pass
NVNT	n20	2462	-47.55	-30	Pass

Test Graphs

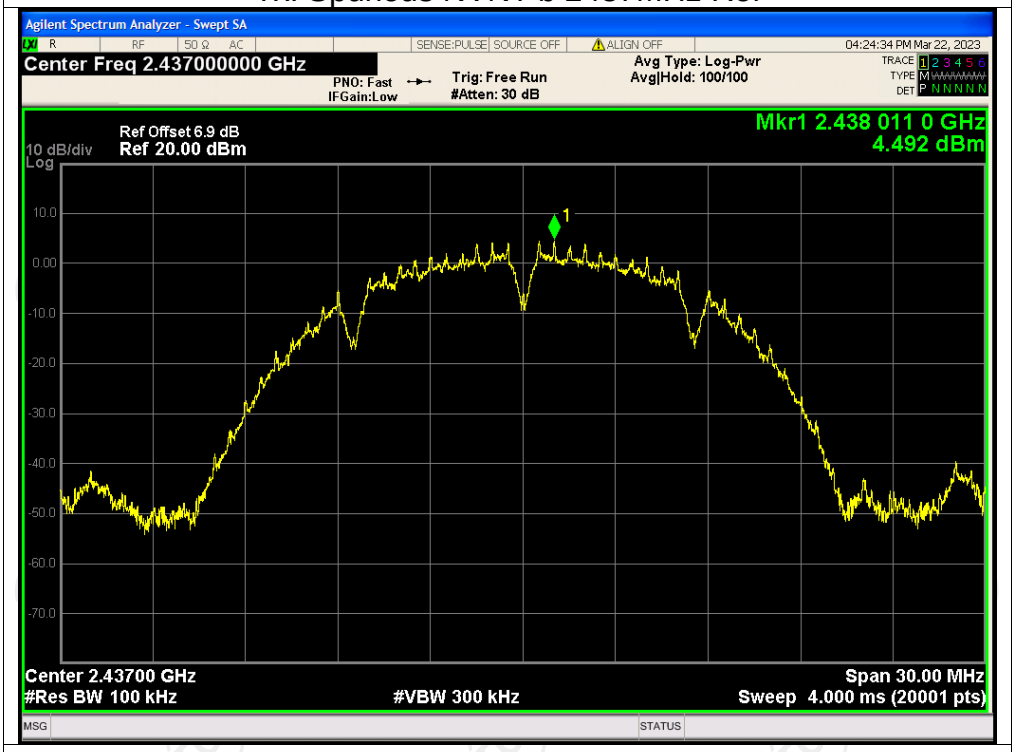
Tx. Spurious NVNT b 2412MHz Ref



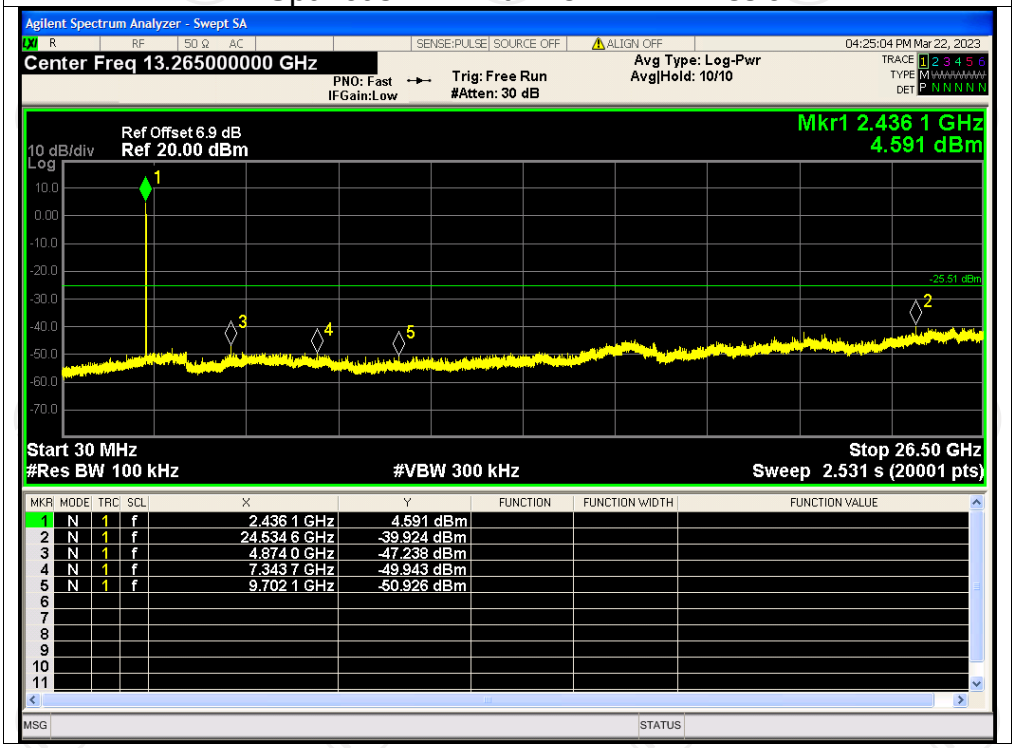
Tx. Spurious NVNT b 2412MHz Emission



Tx. Spurious NVNT b 2437MHz Ref



Tx. Spurious NVNT b 2437MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.436 1 GHz	4.591 dBm			
2	N	1	f	24.534 6 GHz	-39.924 dBm			
3	N	1	f	4.874 0 GHz	-47.238 dBm			
4	N	1	f	7.343 7 GHz	-49.943 dBm			
5	N	1	f	9.702 1 GHz	-50.926 dBm			
6								
7								
8								
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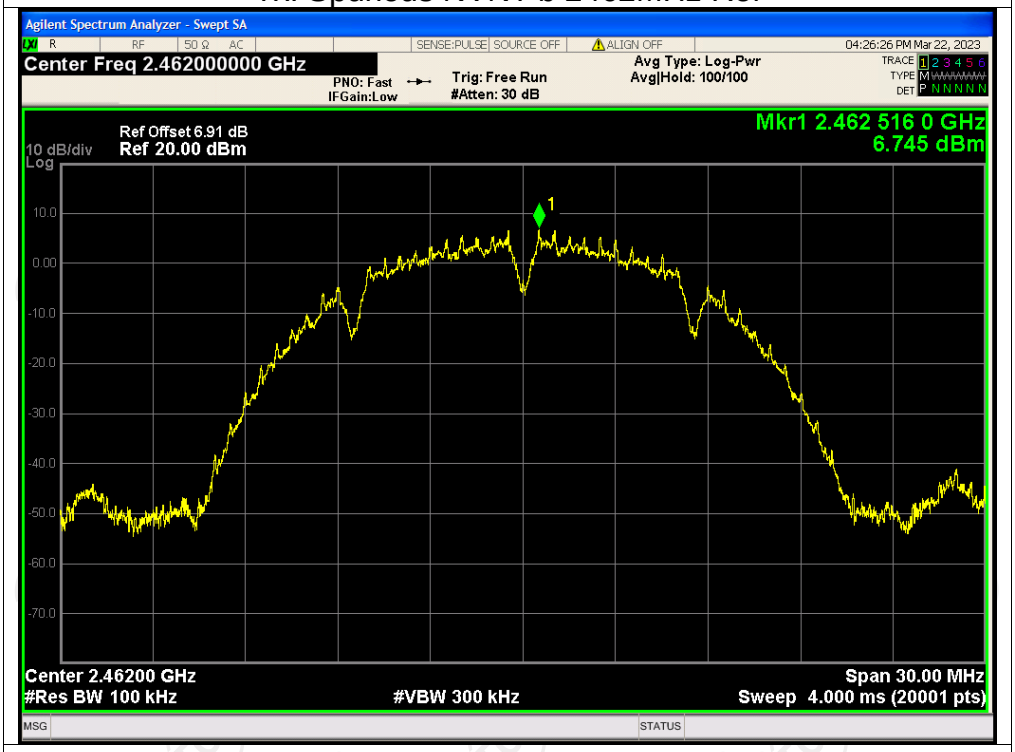
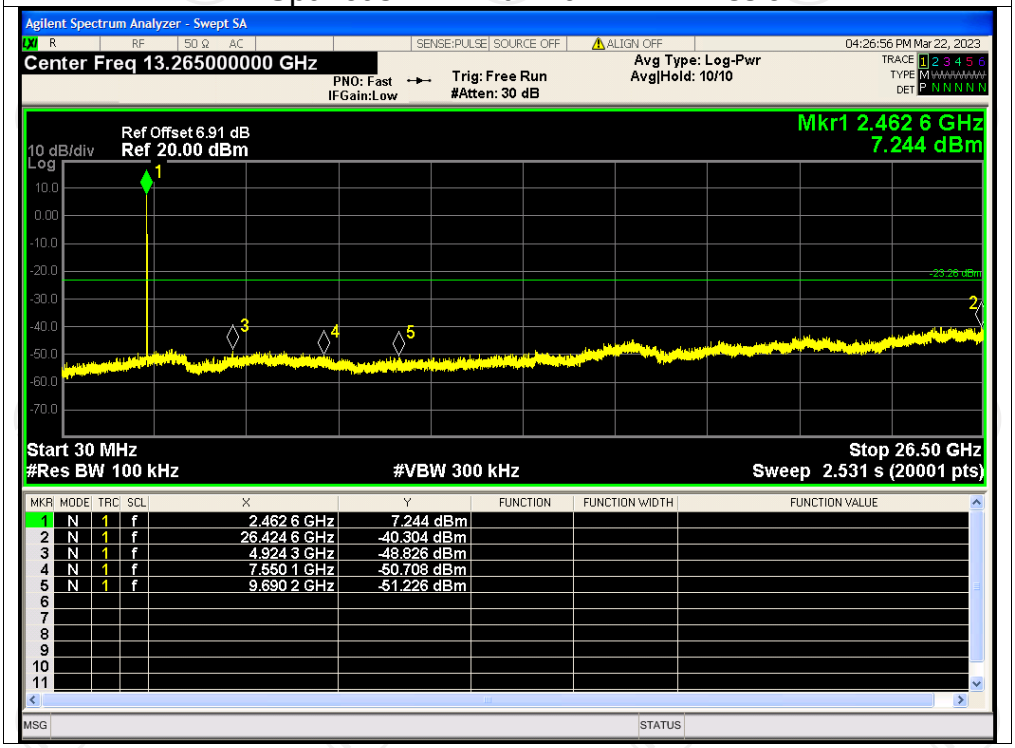
10								
11								

Tx. Spurious NVNT b 2462MHz Ref



Tx. Spurious NVNT b 2462MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.462 6 GHz	7.244 dBm			
2	N	1	f	26.424 6 GHz	-40.304 dBm			
3	N	1	f	4.924 3 GHz	-48.826 dBm			
4	N	1	f	7.550 1 GHz	-50.708 dBm			
5	N	1	f	9.690 2 GHz	-51.226 dBm			
6								
7								
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9								
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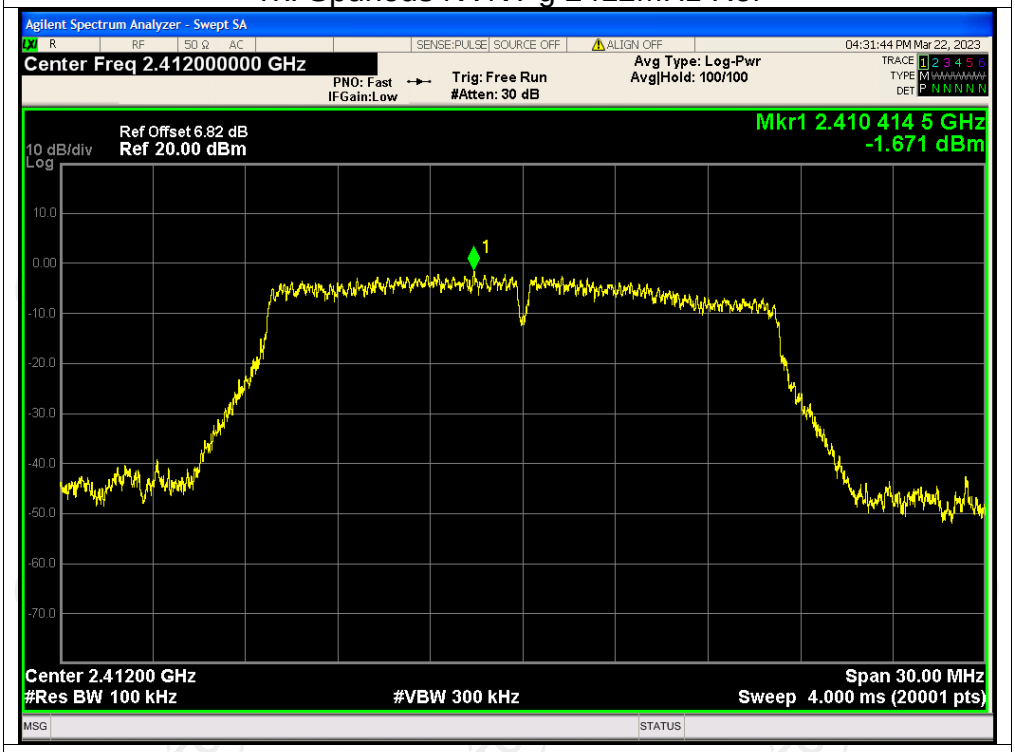
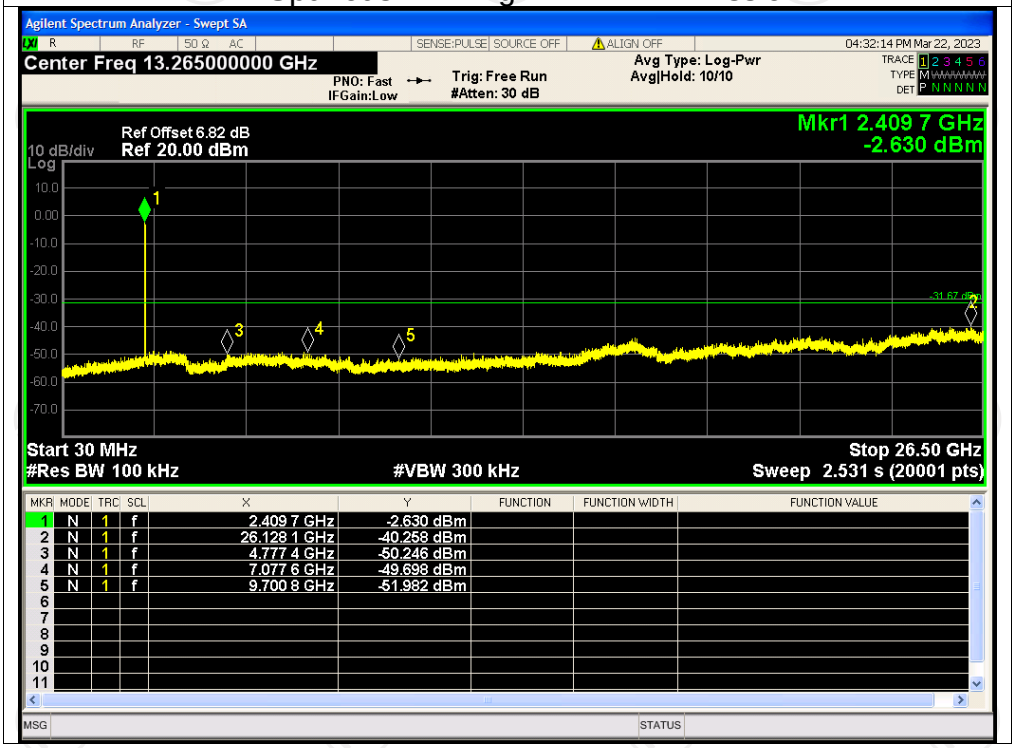
Tx. Spurious NVNT g 2412MHz Ref

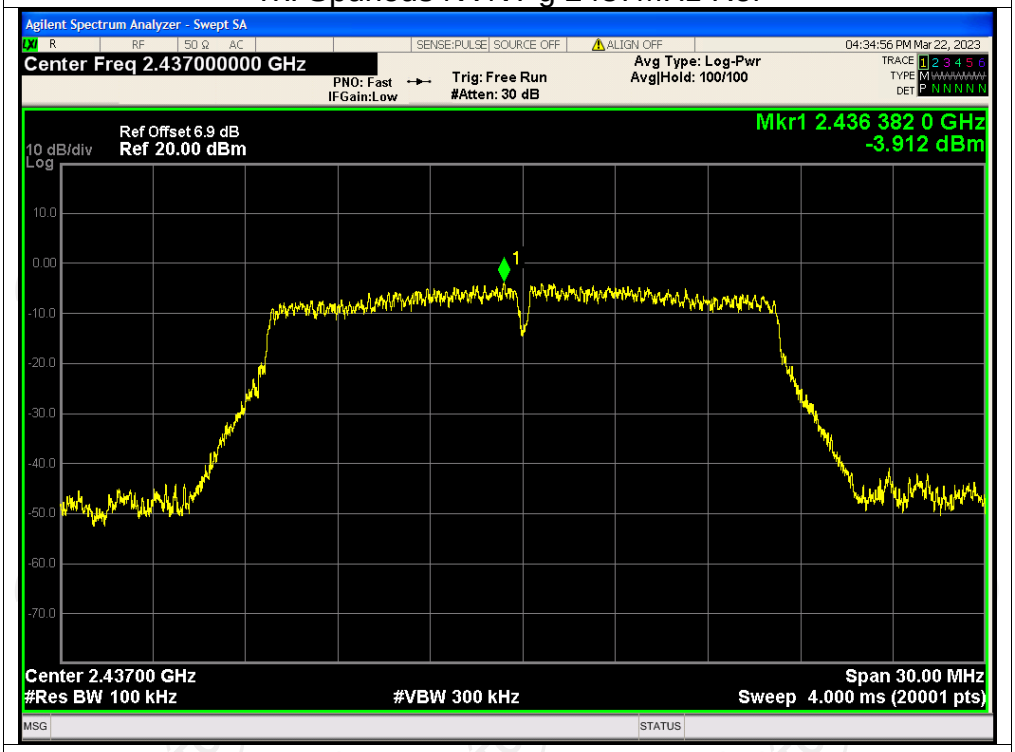


Tx. Spurious NVNT g 2412MHz Emission

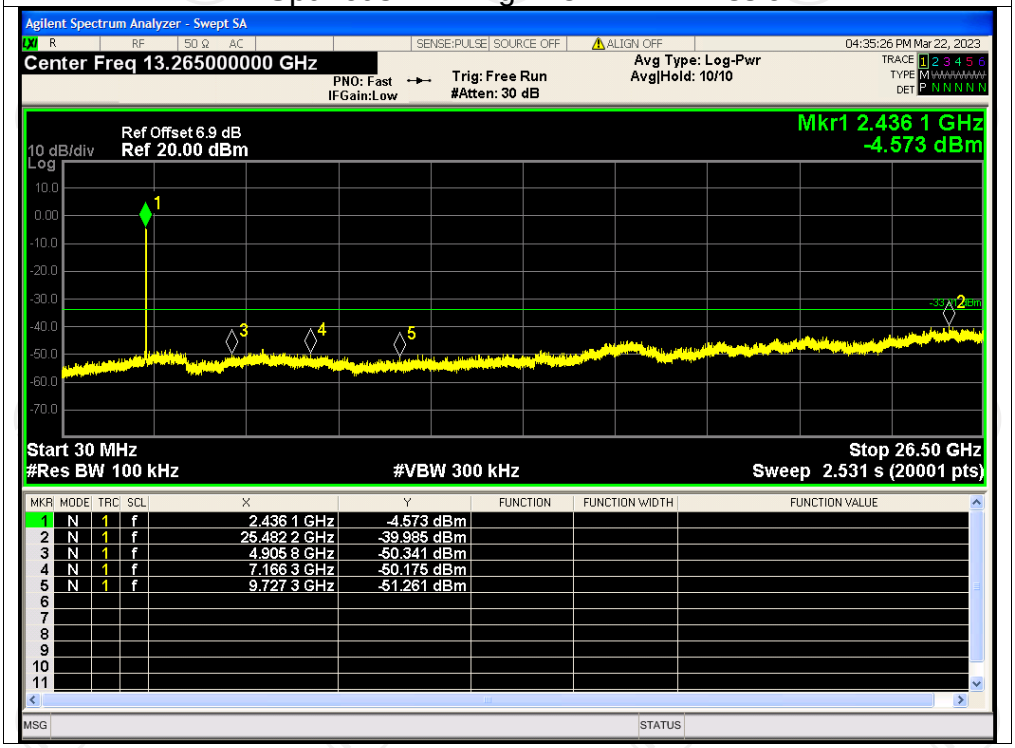


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.409 7 GHz	-2.630 dBm			
2	N	1	f	26.128 1 GHz	-40.258 dBm			
3	N	1	f	4.777 4 GHz	-50.246 dBm			
4	N	1	f	7.077 6 GHz	-49.698 dBm			
5	N	1	f	9.700 8 GHz	-51.982 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT g 2437MHz Ref



Tx. Spurious NVNT g 2437MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.436 1 GHz	-4.573 dBm			
2	N	1	f	25.482 2 GHz	-39.985 dBm			
3	N	1	f	4.905 8 GHz	-50.341 dBm			
4	N	1	f	7.166 3 GHz	-50.175 dBm			
5	N	1	f	9.727 3 GHz	-51.261 dBm			
6								
7								
8								
9								
10								
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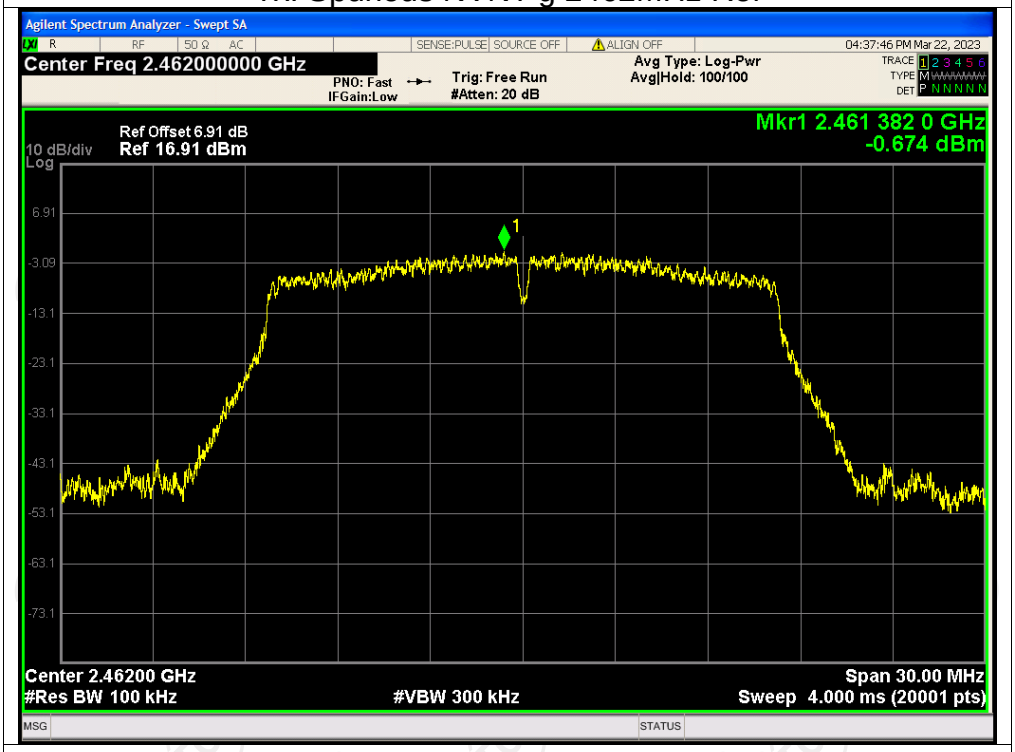
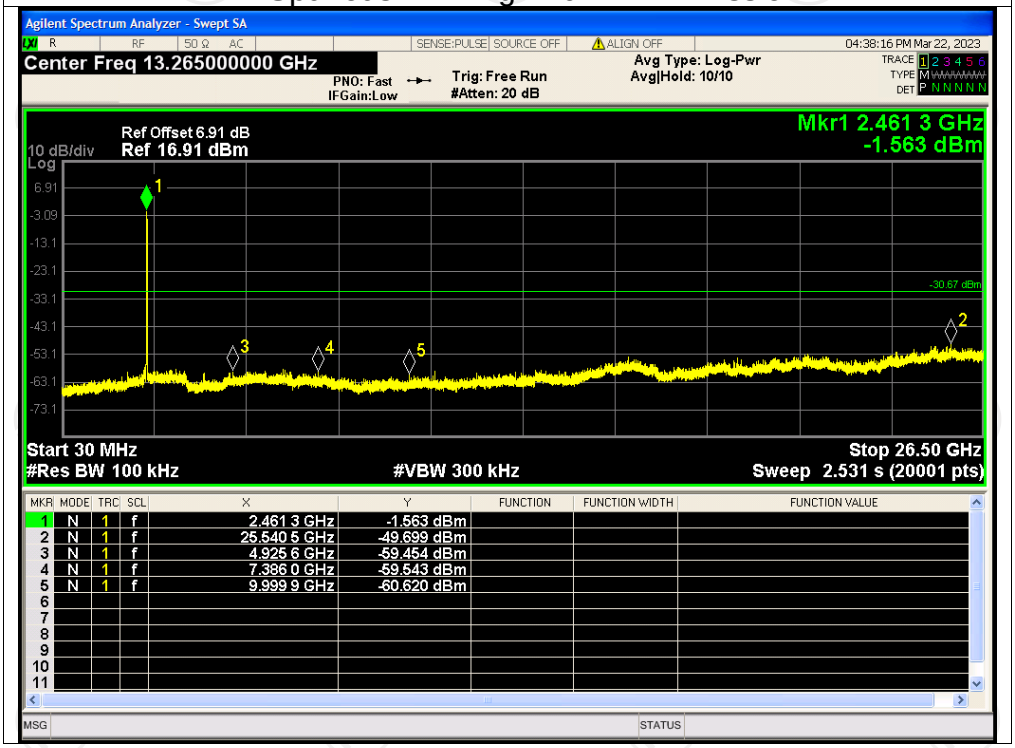
Tx. Spurious NVNT g 2462MHz Ref



Tx. Spurious NVNT g 2462MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.461 3 GHz	-1.563 dBm			
2	N	1	f	25.540 5 GHz	-49.699 dBm			
3	N	1	f	4.925 6 GHz	-59.454 dBm			
4	N	1	f	7.386 0 GHz	-59.543 dBm			
5	N	1	f	9.999 9 GHz	-60.620 dBm			
6								
7								
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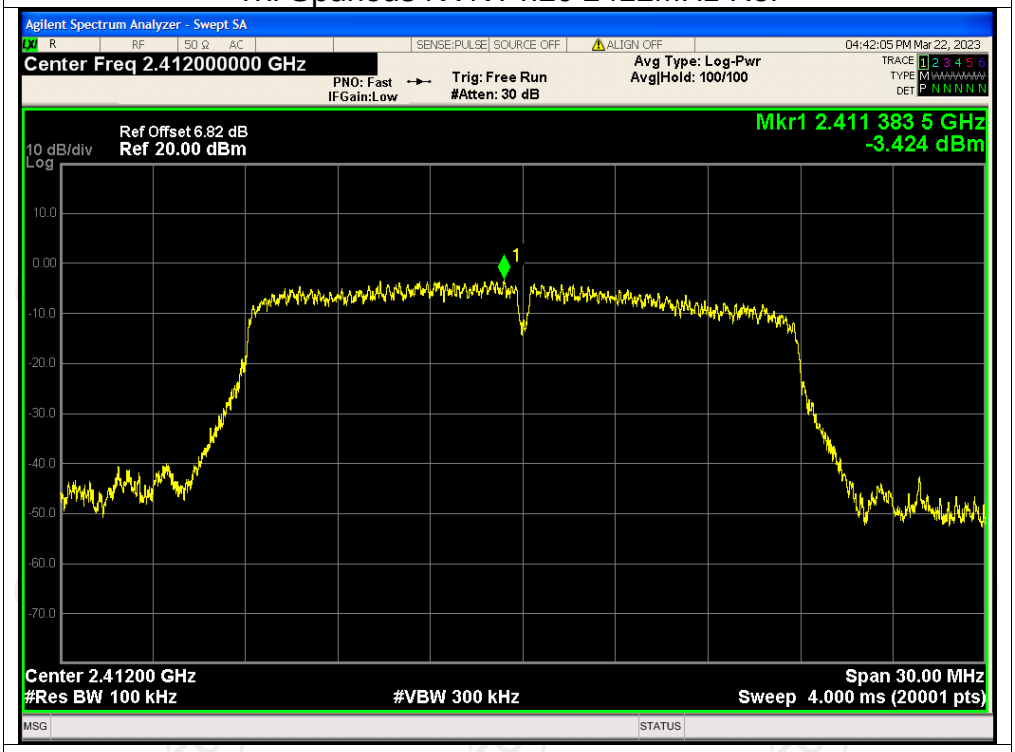
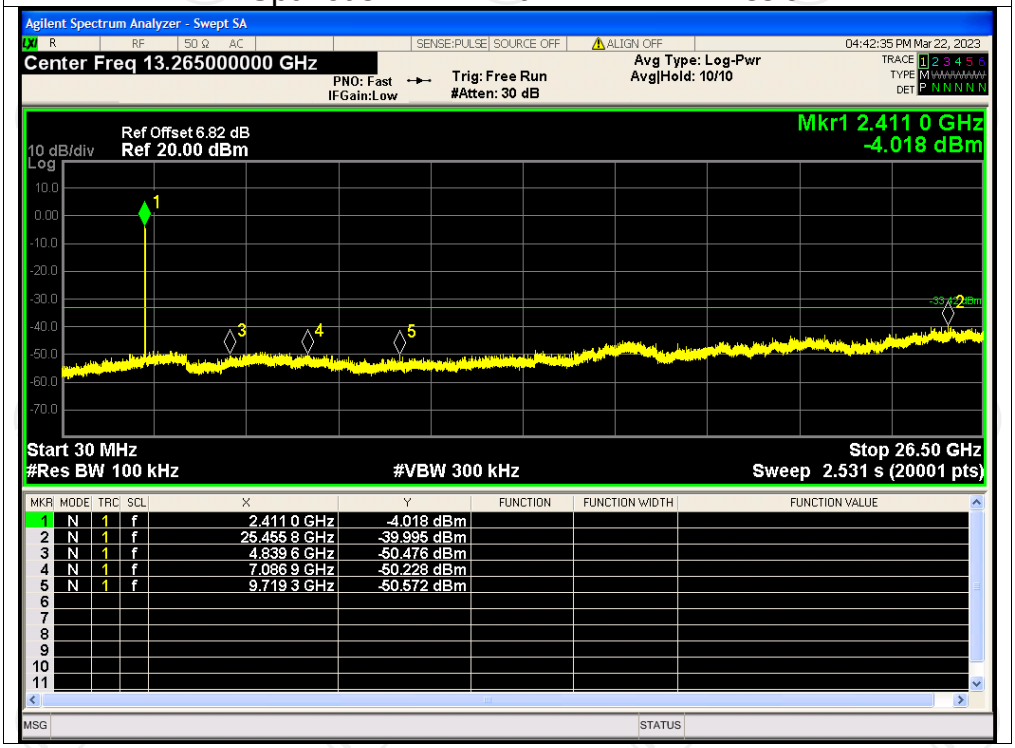
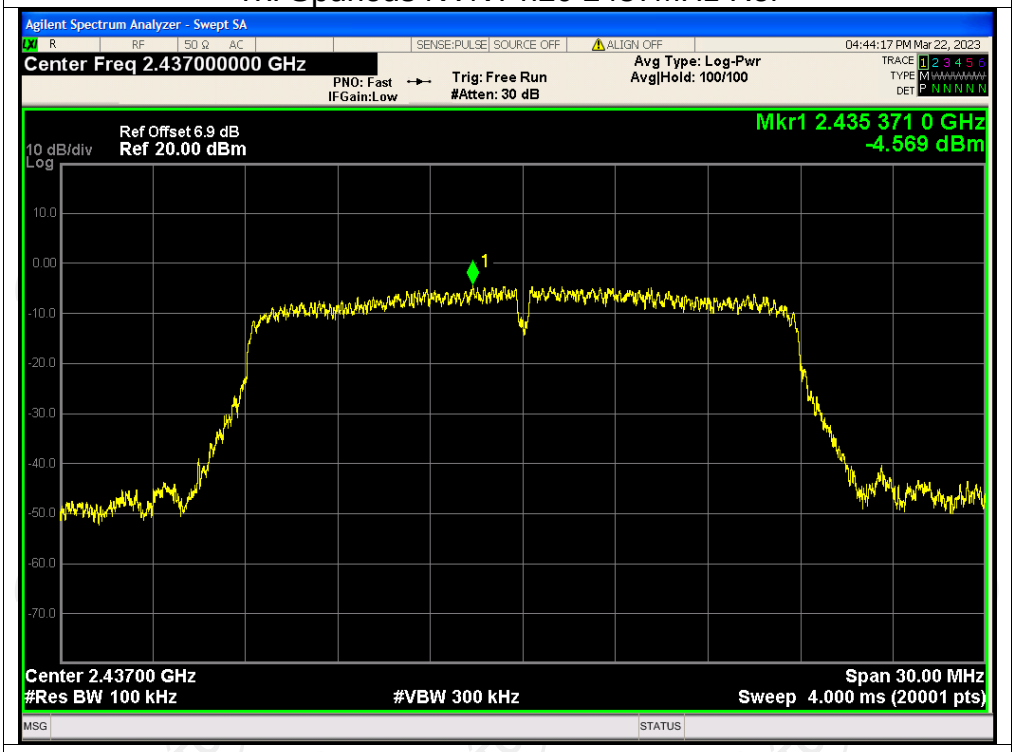
Tx. Spurious NVNT n20 2412MHz Ref



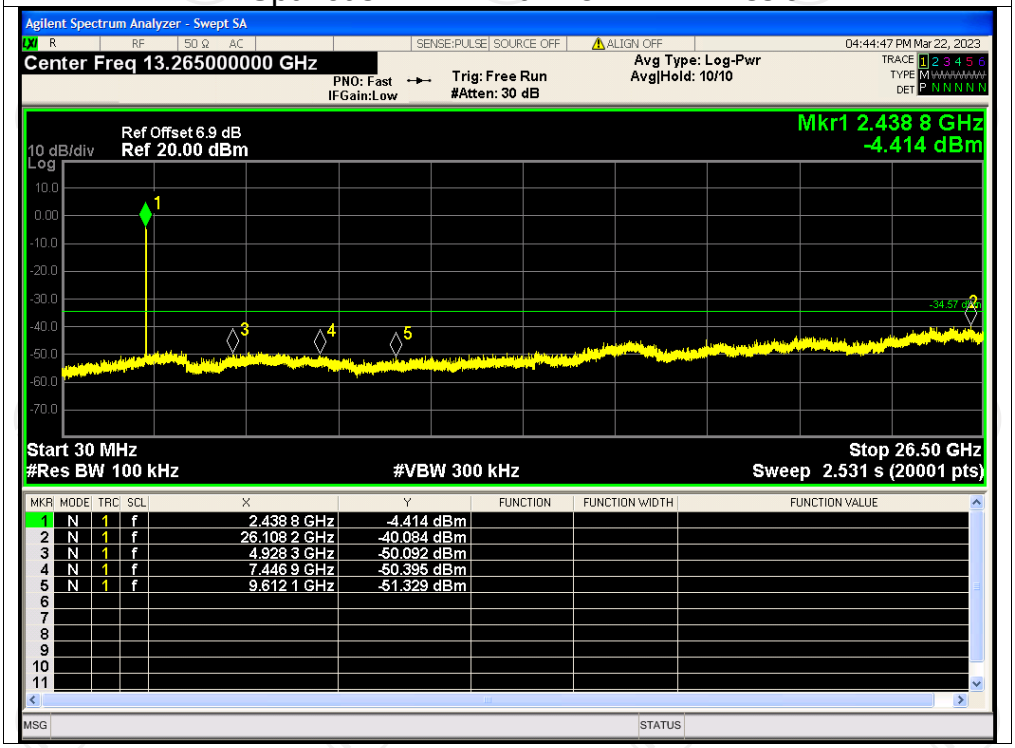
Tx. Spurious NVNT n20 2412MHz Emission



Tx. Spurious NVNT n20 2437MHz Ref

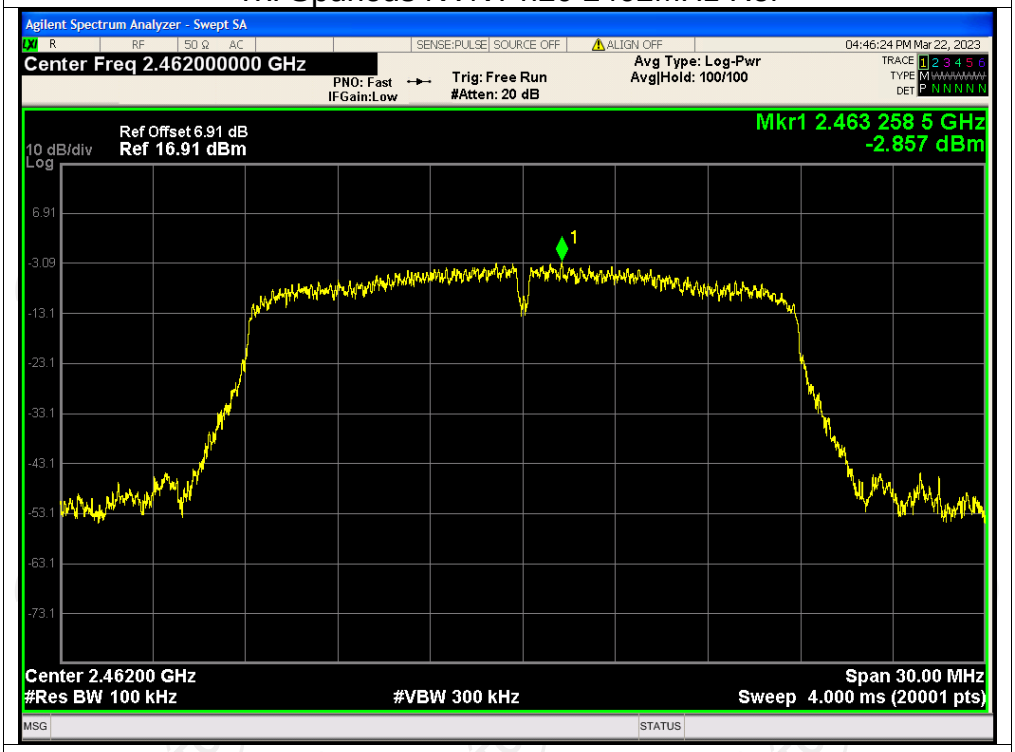


Tx. Spurious NVNT n20 2437MHz Emission

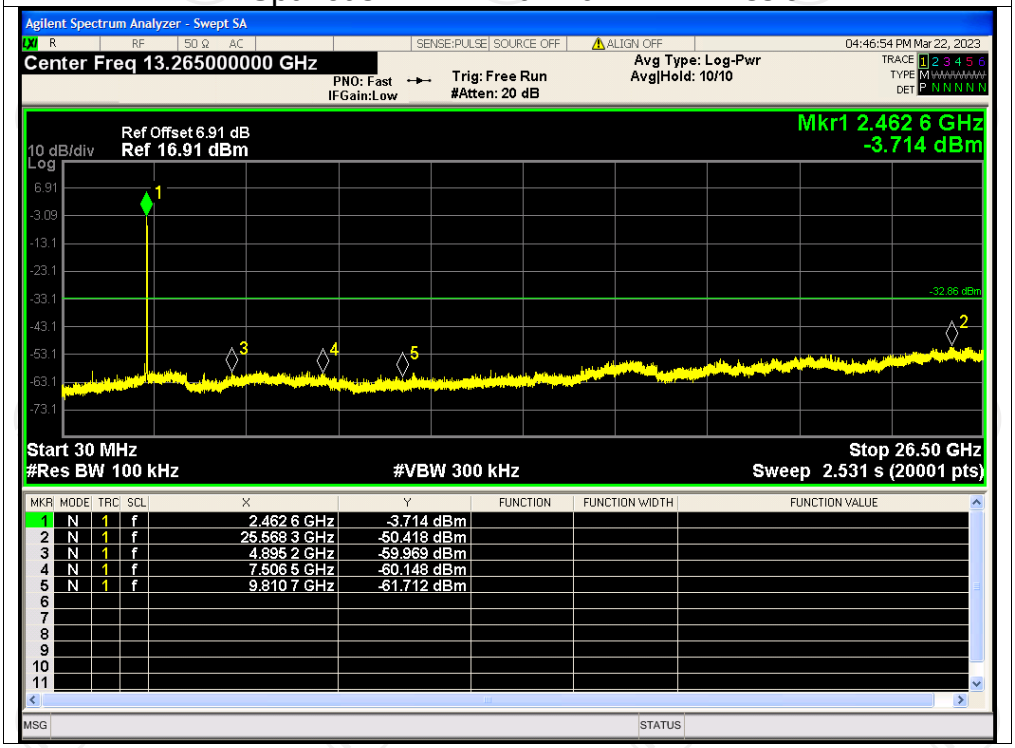


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.438 8 GHz	-4.414 dBm			
2	N	1	f	26.108 2 GHz	-40.084 dBm			
3	N	1	f	4.928 3 GHz	-50.092 dBm			
4	N	1	f	7.446 9 GHz	-50.395 dBm			
5	N	1	f	9.612 1 GHz	-51.329 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT n20 2462MHz Ref



Tx. Spurious NVNT n20 2462MHz Emission



Appendix B: Photographs of Test Setup

Refer to the test report No. TCT230320E904

Appendix C: Photographs of EUT

Refer to the test report No. TCT230320E904

********END OF REPORT********