TEST REPORT

Report No.:	BCTC2211300754-1E
Applicant:	Robobloq Co.,Ltd
Product Name:	Feelin Light Q1
Model/Type reference:	RB-00015
Tested Date:	2022-11-22 to 2022-11-30
Issued Date:	2022-11-30

Shenzhen BCTC Testing Co., Ltd.

FCC ID:2AOHL-RB00015

Product Name:	Feelin Light Q1
Trademark:	ROBOBLOQ
Model/Type reference:	RB-00015
Prepared For:	Robobloq Co.,Ltd
Address:	Room 2301-2302,Building 6, Shenzhen International Innovation Valley, Dashi 1st Road, Xili, Nanshan District,Shenzhen, Guangdong, China
Manufacturer:	Robobloq Co.,Ltd
Address:	Room 2301-2302,Building 6, Shenzhen International Innovation Valley, Dashi 1st Road, Xili, Nanshan District,Shenzhen, Guangdong, China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2022-11-22
Sample tested Date:	2022-11-22 to 2022-11-30
Issue Date:	2022-11-30
Report No.:	BCTC2211300754-1E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is WIFI-2.4GHz band radio test report.

Tested by:

Kelsey Tan/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp.This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full.The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2211300754-1E	2022-11-30	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59℃

4. Product Information And Test Setup

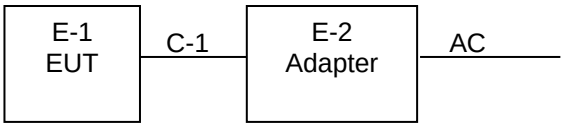
4.1 Product Information

Model/Type reference:	RB-00015
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz
Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 75Mbps
Type of Modulation:	WIFI: OFDM/DSSS
Number Of Channel:	802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH
Antenna installation:	Internal antenna
Antenna Gain:	3.18 dBi
Ratings:	DC 5V

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission and Radiated Spurious Emission
:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Feelin Light Q1	ROBOBLOQ	RB-00015	N/A	EUT
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	DC cable unshielded

Notes:

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.

4.4 Channel List

Channel List for 802.11b/g/n(20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	02	2417	03	2422
04	2427	05	2432	06	2437
07	2442	08	2447	09	2452
10	2457	11	2462		

Channel List for 802.11n(40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	04	2427	05	2432
06	2437	07	2442	08	2447
09	2452				

4.5 Test Mode

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

For All Mode	Description	Modulation Type
Mode 1	CH 01	802.11b
Mode 2	CH 06	
Mode 3	CH 11	
Mode 4	CH 01	802.11g
Mode 5	CH 06	
Mode 6	CH 11	
Mode 7	CH 01	802.11n20
Mode 8	CH 06	
Mode 9	CH 11	
Mode 10	CH 03	802.11n40
Mode 11	CH 06	
Mode 12	CH 09	
Mode 13	Link mode (Conducted emission and Radiated emission)	

Notes:

1. The measurements are performed at the highest, middle, lowest available channels.

2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

3. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 11Mbps for 802.11b,6Mbps for 802.11g,13Mbps for 802.11n(H20), 54Mbps for 802.11n(H40)

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	**SecureCRT**		
Frequency	2412 MHz	2437 MHz	2462 MHz
Parameters	DEF	DEF	DEF
Frequency	2422MHz	2437MHz	2452MHz
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.
FCC Test Firm Registration Number: 712850
Designation Number: CN1212
ISED Registered No.: 23583
CAB identifier: CN0017

5.2 Test Instrument Used

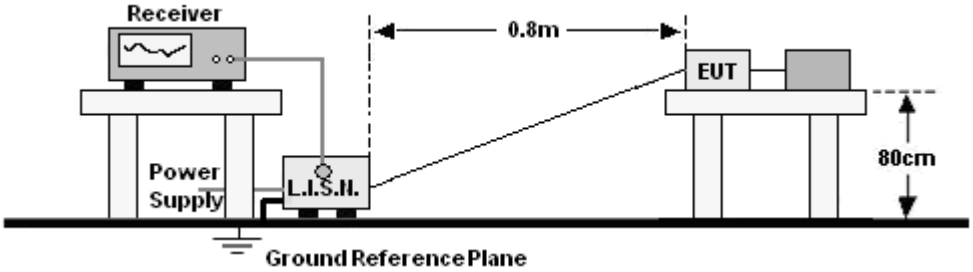
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB C-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\	May 24, 2022	May 23, 2023

Radiated Emissions Test (966 Chamber)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18G-45dB	\	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-0008	May 26, 2022	May 25, 2023
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	\	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 26, 2022	May 25, 2023
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\	May 26, 2022	May 25, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00
Notes: 1. *Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.		

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

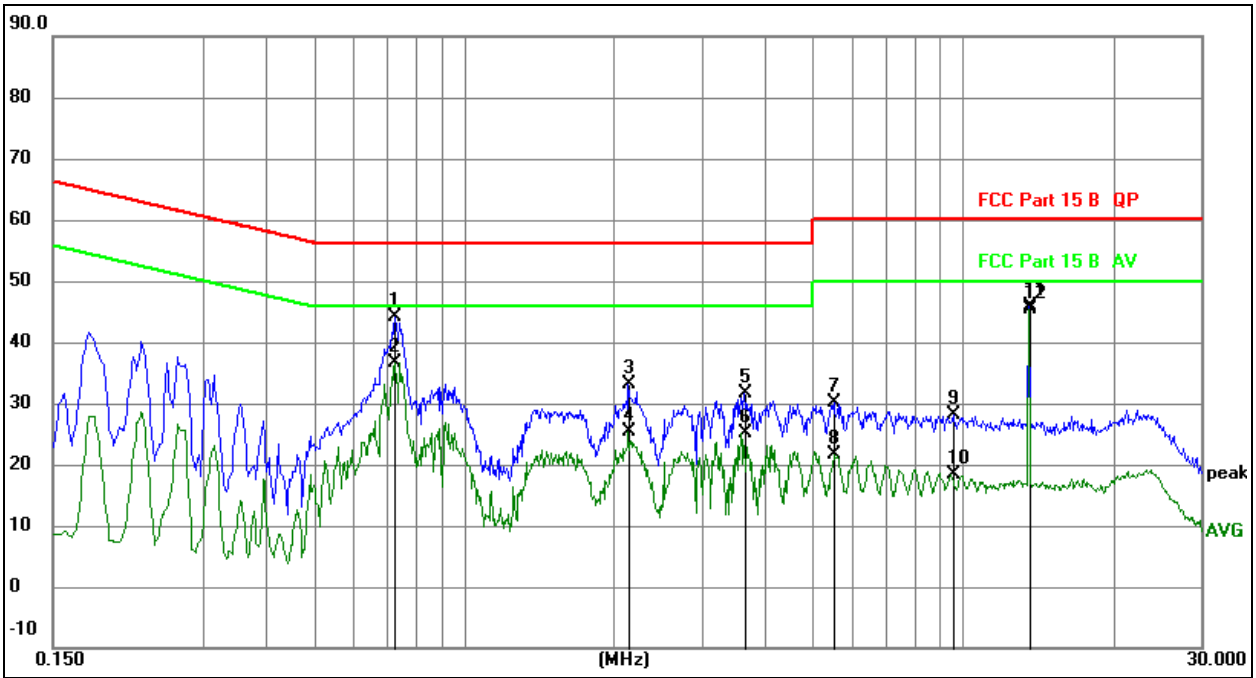
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

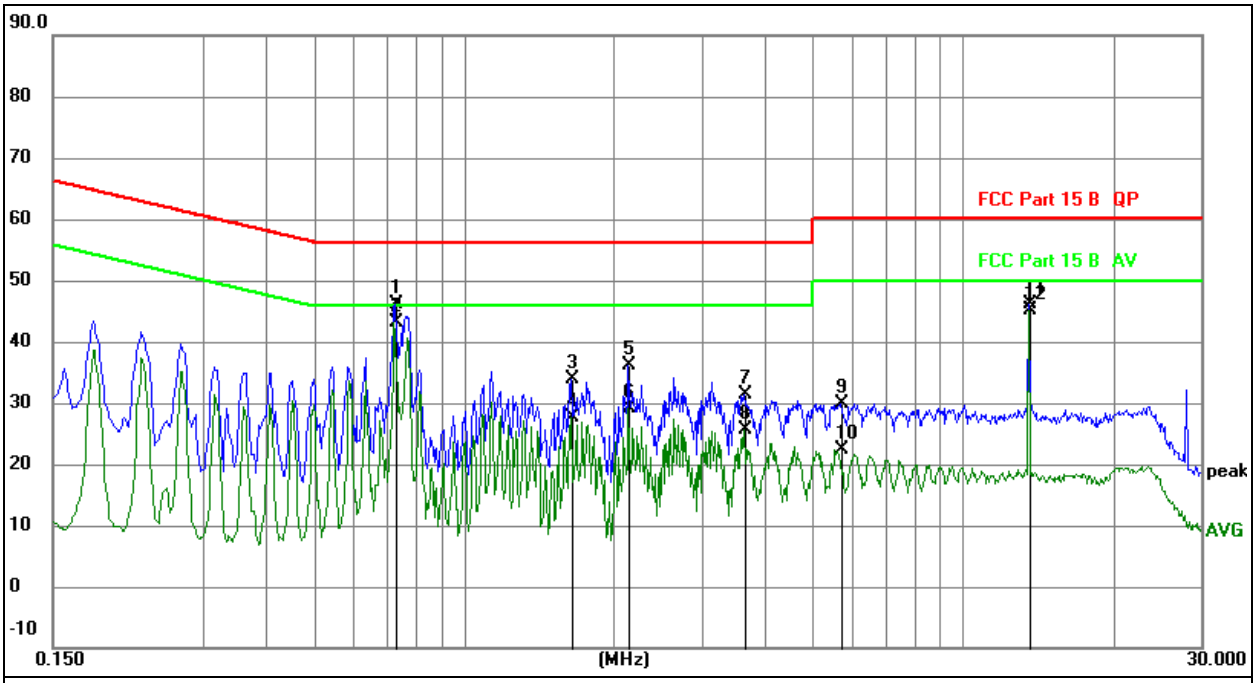
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	L



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.7273	24.38	19.74	44.12	56.00	-11.88	QP
2		0.7273	16.84	19.74	36.58	46.00	-9.42	AVG
3		2.1326	13.16	19.89	33.05	56.00	-22.95	QP
4		2.1326	5.44	19.89	25.33	46.00	-20.67	AVG
5		3.6418	11.49	20.06	31.55	56.00	-24.45	QP
6		3.6418	4.95	20.06	25.01	46.00	-20.99	AVG
7		5.5054	10.08	20.14	30.22	60.00	-29.78	QP
8		5.5054	1.49	20.14	21.63	50.00	-28.37	AVG
9		9.5520	7.87	20.27	28.14	60.00	-31.86	QP
10		9.5520	-2.00	20.27	18.27	50.00	-31.73	AVG
11		13.5509	25.58	20.28	45.86	60.00	-14.14	QP
12	*	13.5509	25.00	20.28	45.28	50.00	-4.72	AVG

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	N



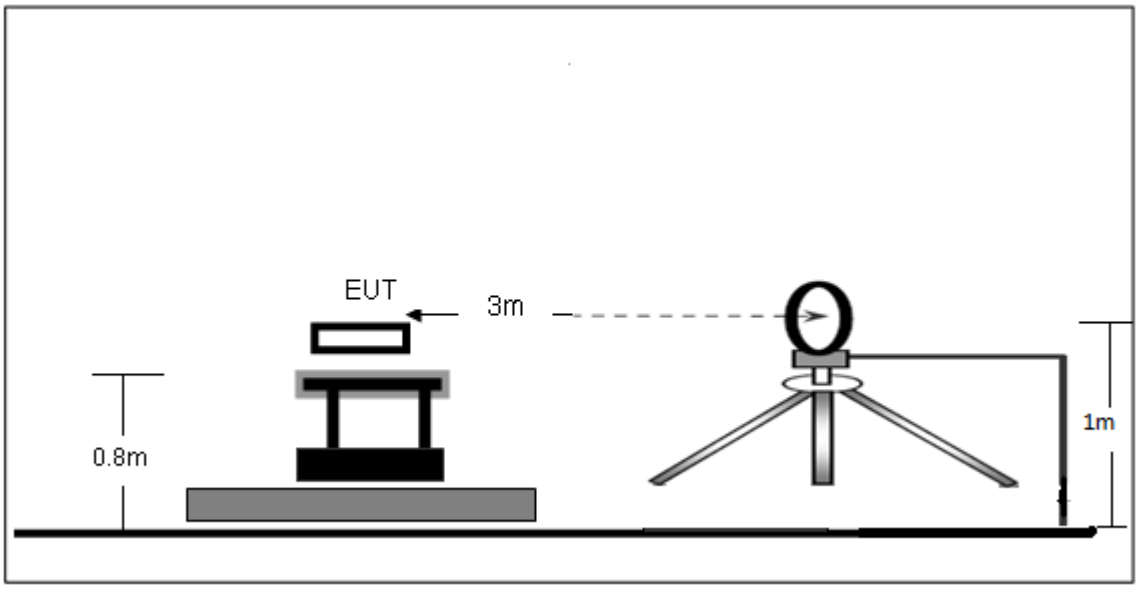
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.7304	26.34	19.74	46.08	56.00	-9.92	QP
2	*	0.7304	23.46	19.74	43.20	46.00	-2.80	AVG
3		1.6395	14.07	19.84	33.91	56.00	-22.09	QP
4		1.6395	7.81	19.84	27.65	46.00	-18.35	AVG
5		2.1435	16.30	19.90	36.20	56.00	-19.80	QP
6		2.1435	9.24	19.90	29.14	46.00	-16.86	AVG
7		3.6510	11.24	20.06	31.30	56.00	-24.70	QP
8		3.6510	5.51	20.06	25.57	46.00	-20.43	AVG
9		5.6984	9.76	20.15	29.91	60.00	-30.09	QP
10		5.6984	2.15	20.15	22.30	50.00	-27.70	AVG
11		13.5600	25.85	20.28	46.13	60.00	-13.87	QP
12		13.5600	24.90	20.28	45.18	50.00	-4.82	AVG

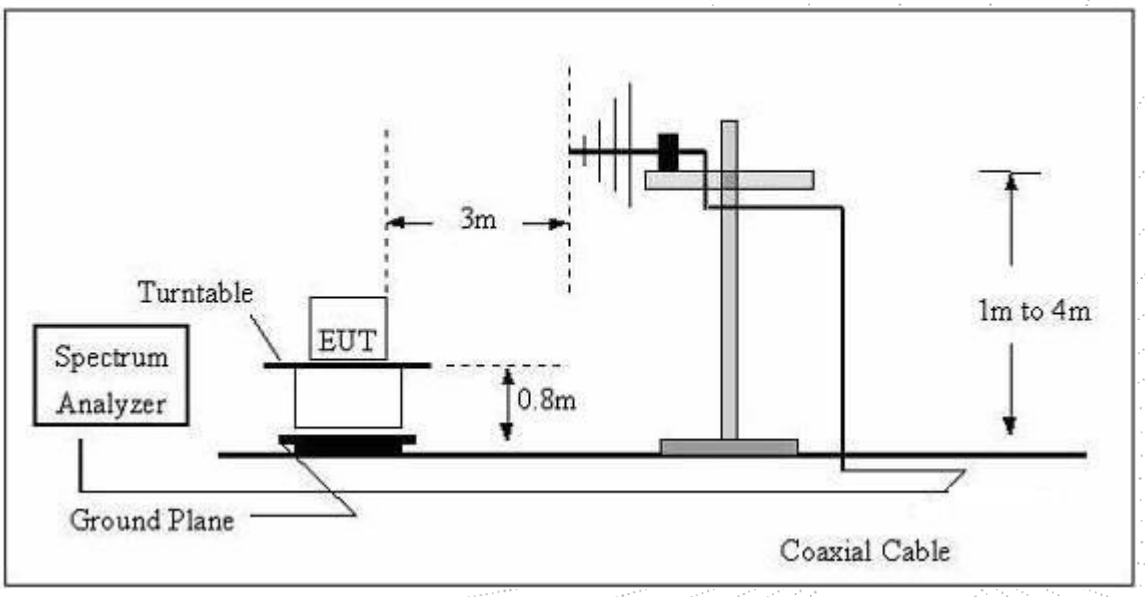
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

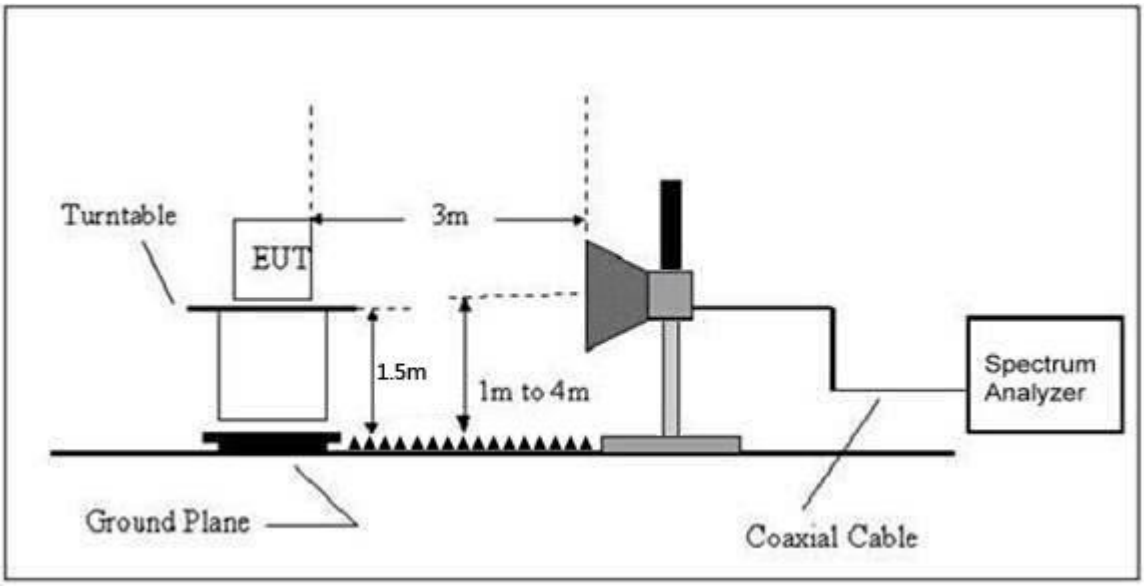
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

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

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:
(1)The limit for radiated test was performed according to FCC PART 15C.
(2)The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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.
d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

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

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	---

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

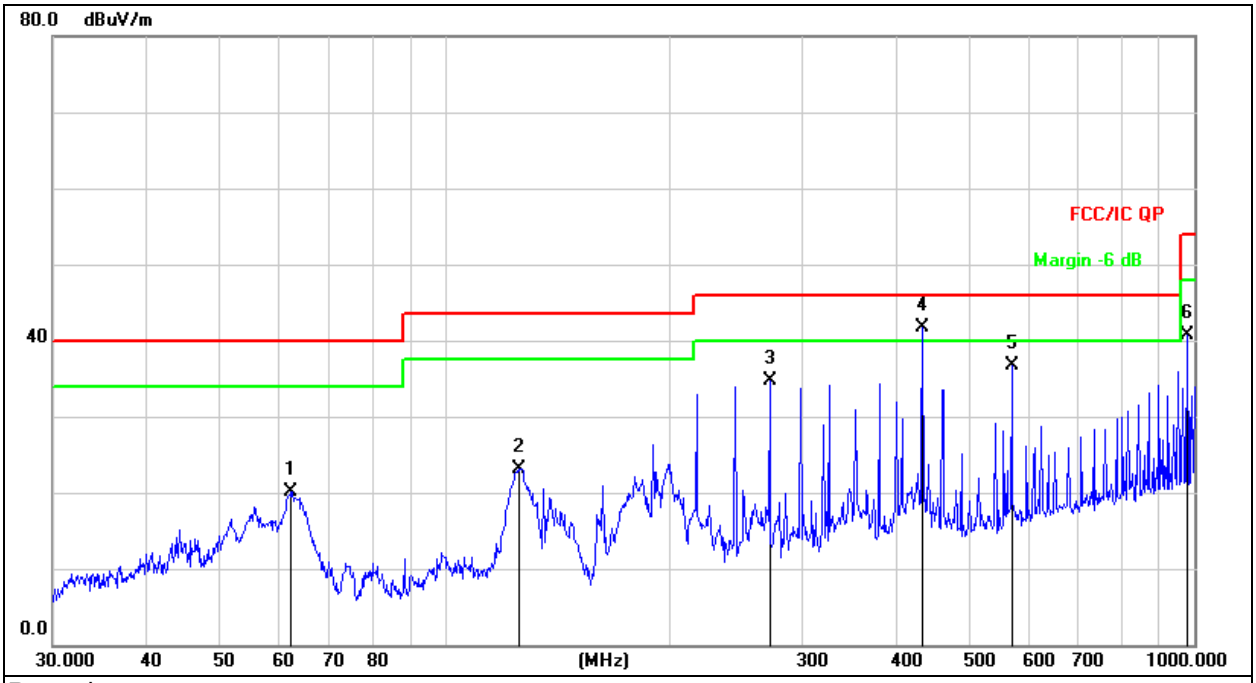
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

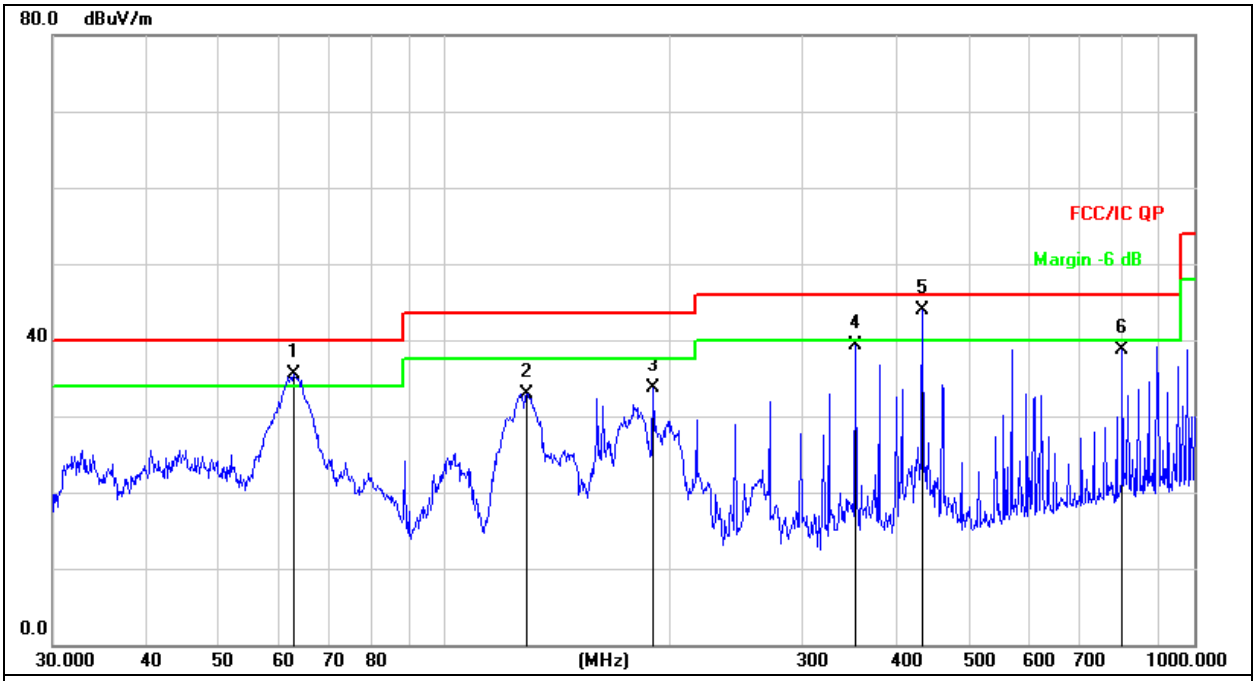
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Horizontal



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		62.4314	37.93	-17.79	20.14	40.00	-19.86	QP
2		125.4457	42.60	-19.43	23.17	43.50	-20.33	QP
3		271.3246	49.98	-15.30	34.68	46.00	-11.32	QP
4	*	434.0651	53.42	-11.72	41.70	46.00	-4.30	QP
5		570.6100	45.86	-9.06	36.80	46.00	-9.20	QP
6		979.1804	44.56	-3.88	40.68	54.00	-13.32	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage ：	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Vertical



Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	62.8708	53.50	-17.91	35.59	40.00	-4.41	QP
2		128.5630	52.53	-19.64	32.89	43.50	-10.61	QP
3		189.7385	51.77	-18.13	33.64	43.50	-9.86	QP
4		352.9433	52.11	-12.76	39.35	46.00	-6.65	QP
5	*	434.0651	55.53	-11.72	43.81	46.00	-2.19	QP
6		801.7863	44.32	-5.55	38.77	46.00	-7.23	QP

Between 1GHz – 25GHz

802.11b

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	54.19	-0.43	53.76	74.00	-20.24	PK
V	4824.00	45.63	-0.43	45.20	54.00	-8.80	AV
V	7236.00	44.87	8.31	53.18	74.00	-20.82	PK
V	7236.00	33.93	8.31	42.24	54.00	-11.76	AV
H	4824.00	52.65	-0.43	52.22	74.00	-21.78	PK
H	4824.00	42.50	-0.43	42.07	54.00	-11.93	AV
H	7236.00	42.79	8.31	51.10	74.00	-22.90	PK
H	7236.00	34.90	8.31	43.21	54.00	-10.79	AV
Middle channel:2437MHz							
V	4874.00	51.68	-0.38	51.30	74.00	-22.70	PK
V	4874.00	43.48	-0.38	43.10	54.00	-10.90	AV
V	7311.00	41.94	8.83	50.77	74.00	-23.23	PK
V	7311.00	32.59	8.83	41.42	54.00	-12.58	AV
H	4874.00	50.29	-0.38	49.91	74.00	-24.09	PK
H	4874.00	40.74	-0.38	40.36	54.00	-13.64	AV
H	7311.00	39.46	8.83	48.29	74.00	-25.71	PK
H	7311.00	31.56	8.83	40.39	54.00	-13.61	AV
High channel:2462MHz							
V	4924.00	52.69	-0.32	52.37	74.00	-21.63	PK
V	4924.00	44.12	-0.32	43.80	54.00	-10.20	AV
V	7386.00	44.18	9.35	53.53	74.00	-20.47	PK
V	7386.00	33.79	9.35	43.14	54.00	-10.86	AV
H	4924.00	51.36	-0.32	51.04	74.00	-22.96	PK
H	4924.00	41.46	-0.32	41.14	54.00	-12.86	AV
H	7386.00	41.72	9.35	51.07	74.00	-22.93	PK
H	7386.00	33.79	9.35	43.14	54.00	-10.86	AV

Remark:
1.Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level - Limit
2.If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	52.80	-0.43	52.37	74.00	-21.63	PK
V	4824.00	44.34	-0.43	43.91	54.00	-10.09	AV
V	7236.00	43.90	8.31	52.21	74.00	-21.79	PK
V	7236.00	33.50	8.31	41.81	54.00	-12.19	AV
H	4824.00	50.02	-0.43	49.59	74.00	-24.41	PK
H	4824.00	39.14	-0.43	38.71	54.00	-15.29	AV
H	7236.00	42.49	8.31	50.80	74.00	-23.20	PK
H	7236.00	34.06	8.31	42.37	54.00	-11.63	AV
Middle channel:2437MHz							
V	4874.00	50.52	-0.38	50.14	74.00	-23.86	PK
V	4874.00	41.65	-0.38	41.27	54.00	-12.73	AV
V	7311.00	40.08	8.83	48.91	74.00	-25.09	PK
V	7311.00	30.60	8.83	39.43	54.00	-14.57	AV
H	4874.00	46.99	-0.38	46.61	74.00	-27.39	PK
H	4874.00	37.21	-0.38	36.83	54.00	-17.17	AV
H	7311.00	38.41	8.83	47.24	74.00	-26.76	PK
H	7311.00	31.06	8.83	39.89	54.00	-14.11	AV
High channel:2462MHz							
V	4924.00	51.63	-0.32	51.31	74.00	-22.69	PK
V	4924.00	42.46	-0.32	42.14	54.00	-11.86	AV
V	7386.00	45.53	9.35	54.88	74.00	-19.12	PK
V	7386.00	36.40	9.35	45.75	54.00	-8.25	AV
H	4924.00	49.86	-0.32	49.54	74.00	-24.46	PK
H	4924.00	39.38	-0.32	39.06	54.00	-14.94	AV
H	7386.00	43.31	9.35	52.66	74.00	-21.34	PK
H	7386.00	35.33	9.35	44.68	54.00	-9.32	AV

Remark:
1.Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level - Limit
2.If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n20

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	53.87	-0.43	53.44	74.00	-20.56	PK
V	4824.00	43.24	-0.43	42.81	54.00	-11.19	AV
V	7236.00	43.02	8.31	51.33	74.00	-22.67	PK
V	7236.00	32.76	8.31	41.07	54.00	-12.93	AV
H	4824.00	52.40	-0.43	51.97	74.00	-22.03	PK
H	4824.00	41.56	-0.43	41.13	54.00	-12.87	AV
H	7236.00	40.25	8.31	48.56	74.00	-25.44	PK
H	7236.00	32.68	8.31	40.99	54.00	-13.01	AV
Middle channel:2437MHz							
V	4874.00	52.06	-0.38	51.68	74.00	-22.32	PK
V	4874.00	43.43	-0.38	43.05	54.00	-10.95	AV
V	7311.00	44.60	8.83	53.43	74.00	-20.57	PK
V	7311.00	35.64	8.83	44.47	54.00	-9.53	AV
H	4874.00	48.36	-0.38	47.98	74.00	-26.02	PK
H	4874.00	37.47	-0.38	37.09	54.00	-16.91	AV
H	7311.00	43.02	8.83	51.85	74.00	-22.15	PK
H	7311.00	34.59	8.83	43.42	54.00	-10.58	AV
High channel:2462MHz							
V	4924.00	54.44	-0.32	54.12	74.00	-19.88	PK
V	4924.00	44.76	-0.32	44.44	54.00	-9.56	AV
V	7386.00	46.53	9.35	55.88	74.00	-18.12	PK
V	7386.00	37.19	9.35	46.54	54.00	-7.46	AV
H	4924.00	51.94	-0.32	51.62	74.00	-22.38	PK
H	4924.00	41.36	-0.32	41.04	54.00	-12.96	AV
H	7386.00	45.49	9.35	54.84	74.00	-19.16	PK
H	7386.00	36.66	9.35	46.01	54.00	-7.99	AV

Remark:
1.Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level - Limit
2.If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n40

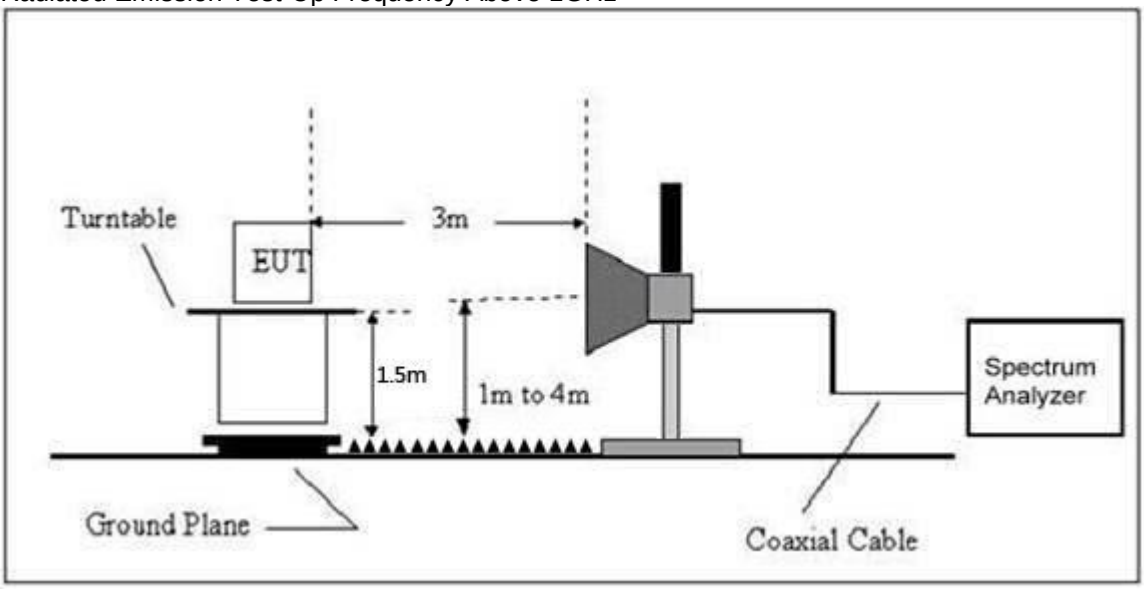
Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2422MHz							
V	4844.00	53.47	-0.43	53.04	74.00	-20.96	PK
V	4844.00	43.78	-0.43	43.35	54.00	-10.65	AV
V	7266.00	42.79	8.31	51.10	74.00	-22.90	PK
V	7266.00	32.83	8.31	41.14	54.00	-12.86	AV
H	4844.00	49.20	-0.43	48.77	74.00	-25.23	PK
H	4844.00	40.10	-0.43	39.67	54.00	-14.33	AV
H	7266.00	40.80	8.31	49.11	74.00	-24.89	PK
H	7266.00	32.65	8.31	40.96	54.00	-13.04	AV
Middle channel:2437MHz							
V	4874.00	52.44	-0.38	52.06	74.00	-21.94	PK
V	4874.00	45.08	-0.38	44.70	54.00	-9.30	AV
V	7311.00	44.18	8.83	53.01	74.00	-20.99	PK
V	7311.00	35.11	8.83	43.94	54.00	-10.06	AV
H	4874.00	48.81	-0.38	48.43	74.00	-25.57	PK
H	4874.00	38.43	-0.38	38.05	54.00	-15.95	AV
H	7311.00	42.34	8.83	51.17	74.00	-22.83	PK
H	7311.00	35.04	8.83	43.87	54.00	-10.13	AV
High channel:2452MHz							
V	4904.00	53.70	-0.32	53.38	74.00	-20.62	PK
V	4904.00	43.33	-0.32	43.01	54.00	-10.99	AV
V	7356.00	46.15	9.35	55.50	74.00	-18.50	PK
V	7356.00	36.47	9.35	45.82	54.00	-8.18	AV
H	4904.00	52.40	-0.32	52.08	74.00	-21.92	PK
H	4904.00	42.98	-0.32	42.66	54.00	-11.34	AV
H	7356.00	44.15	9.35	53.50	74.00	-20.50	PK
H	7356.00	35.94	9.35	45.29	54.00	-8.71	AV

Remark:
1.Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level - Limit
2.If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:
(1)The limit for radiated test was performed according to FCC PART 15C.
(2)The tighter limit applies at the band edges.
(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:
a.The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c.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.
d.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.
e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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.
g. Test the EUT in the lowest channel, the Highest channel.
Note:
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)		Result
					PK	PK	AV	
802.11b	Low Channel 2412MHz							
	H	2390.00	53.42	-6.70	46.72	74.00	54.00	PASS
	H	2400.00	57.22	-6.71	50.51	74.00	54.00	PASS
	V	2390.00	53.89	-6.70	47.19	74.00	54.00	PASS
	V	2400.00	55.12	-6.71	48.41	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	51.50	-6.79	44.71	74.00	54.00	PASS
	H	2485.00	49.88	-6.81	43.07	74.00	54.00	PASS
	V	2483.50	53.49	-6.79	46.70	74.00	54.00	PASS
	V	2485.00	49.50	-6.81	42.69	74.00	54.00	PASS
802.11g	Low Channel 2412MHz							
	H	2390.00	53.53	-6.70	46.83	74.00	54.00	PASS
	H	2400.00	58.24	-6.71	51.53	74.00	54.00	PASS
	V	2390.00	52.77	-6.70	46.07	74.00	54.00	PASS
	V	2400.00	53.70	-6.71	46.99	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	52.12	-6.79	45.33	74.00	54.00	PASS
	H	2485.00	49.36	-6.81	42.55	74.00	54.00	PASS
	V	2483.50	51.53	-6.79	44.74	74.00	54.00	PASS
	V	2485.00	48.46	-6.81	41.65	74.00	54.00	PASS

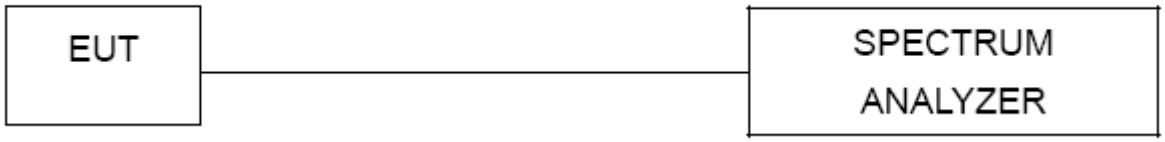
Remark:
1. Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level – Limit
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)		Result
					PK	PK	AV	
802.11n20	Low Channel 2412MHz							
	H	2390.00	53.63	-6.70	46.93	74.00	54.00	PASS
	H	2400.00	56.81	-6.71	50.10	74.00	54.00	PASS
	V	2390.00	52.83	-6.70	46.13	74.00	54.00	PASS
	V	2400.00	52.77	-6.71	46.06	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	52.90	-6.79	46.11	74.00	54.00	PASS
	H	2500.00	49.50	-6.81	42.69	74.00	54.00	PASS
	V	2483.50	52.98	-6.79	46.19	74.00	54.00	PASS
	V	2500.00	49.89	-6.81	43.08	74.00	54.00	PASS
802.11n40	Low Channel 2422MHz							
	H	2390.00	52.89	-6.70	46.19	74.00	54.00	PASS
	H	2400.00	57.54	-6.71	50.83	74.00	54.00	PASS
	V	2390.00	51.93	-6.70	45.23	74.00	54.00	PASS
	V	2400.00	52.57	-6.71	45.86	74.00	54.00	PASS
	High Channel 2452MHz							
	H	2483.50	52.67	-6.79	45.88	74.00	54.00	PASS
	H	2500.00	48.81	-6.81	42.00	74.00	54.00	PASS
	V	2483.50	50.78	-6.79	43.99	74.00	54.00	PASS
	V	2500.00	47.77	-6.81	40.96	74.00	54.00	PASS

Remark:
1. Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level – Limit
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Note: Power Spectral Density(dBm)=Reading+Cable Loss

9.5 Test Result

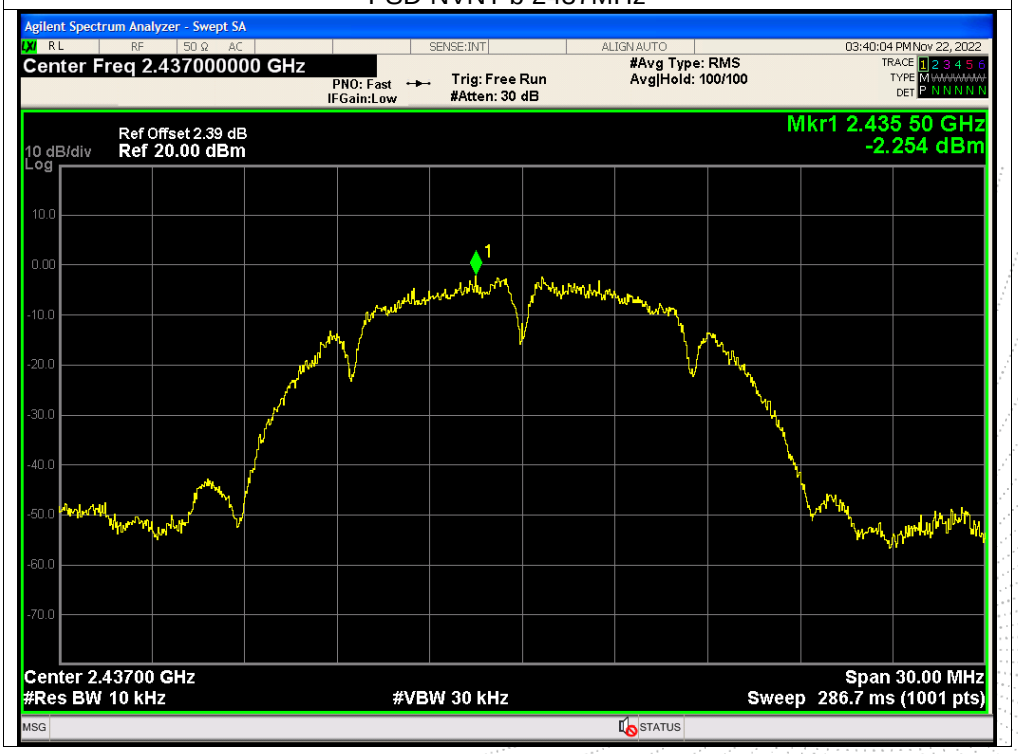
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V

Test Mode	Frequency	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
TX b Mode	2412 MHz	-2.38	-7.61	8	PASS
	2437 MHz	-2.25	-7.48	8	PASS
	2462 MHz	-8.89	-14.12	8	PASS
TX g Mode	2412 MHz	-6.49	-11.72	8	PASS
	2437 MHz	-6.70	-11.93	8	PASS
	2462 MHz	-6.28	-11.51	8	PASS
TX n Mode(20M)	2412 MHz	-6.05	-11.28	8	PASS
	2437 MHz	-7.15	-12.38	8	PASS
	2462 MHz	-6.22	-11.45	8	PASS
TX n Mode(40M)	2422 MHz	-11.21	-16.44	8	PASS
	2437 MHz	-11.25	-16.48	8	PASS
	2452 MHz	-10.62	-15.85	8	PASS
Note: Correction Factor = 10log(3KHz/RBW in measurement)					

Test Graphs

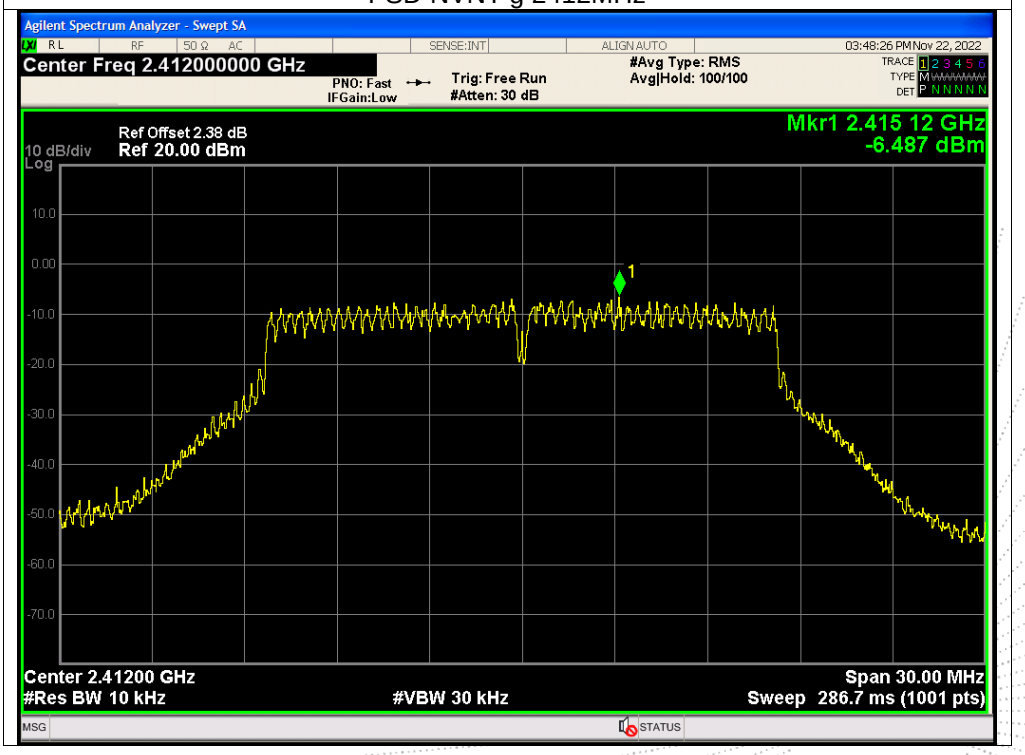
PSD NVNT b 2412MHz

PSD NVNT b 2437MHz

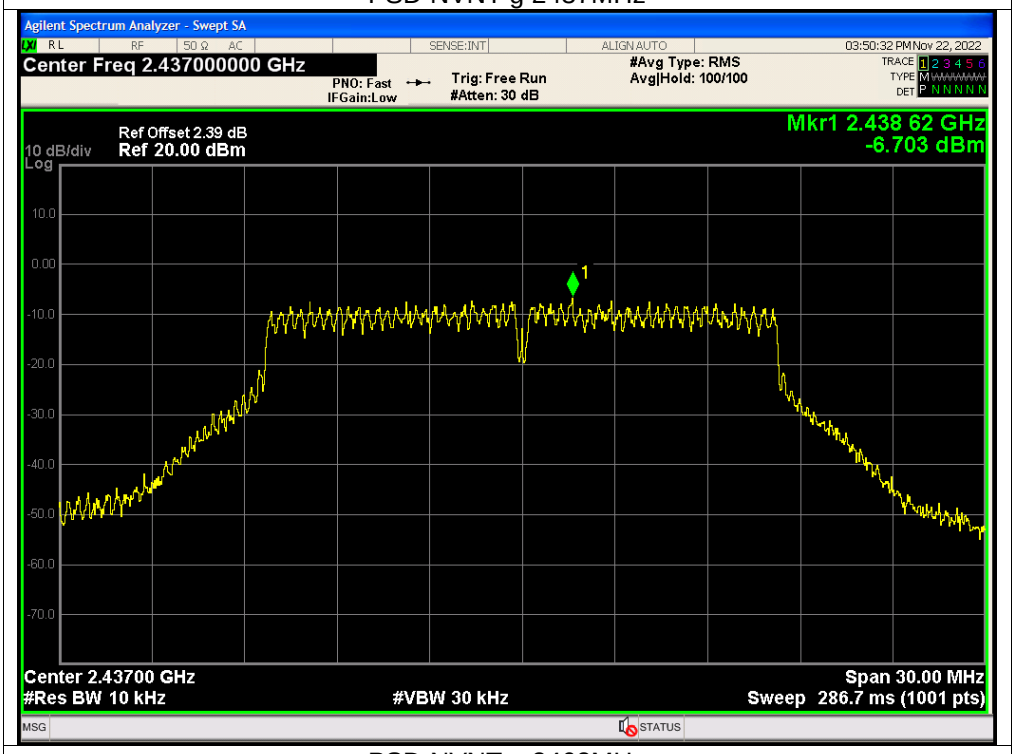


PSD NVNT b 2462MHz

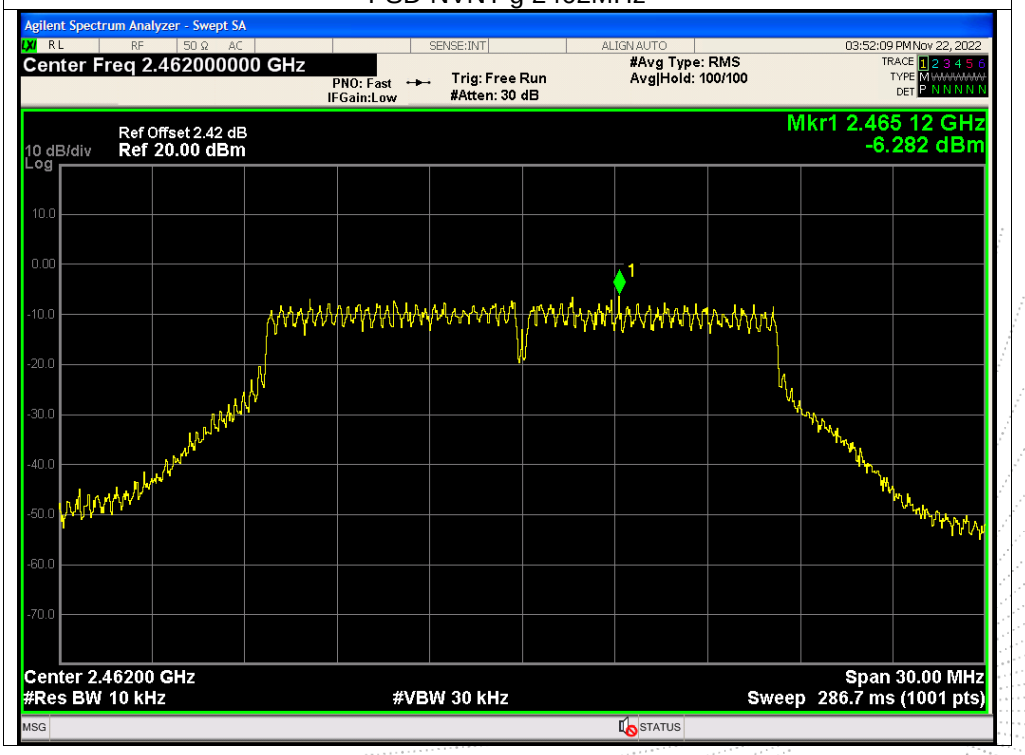
PSD NVNT g 2412MHz



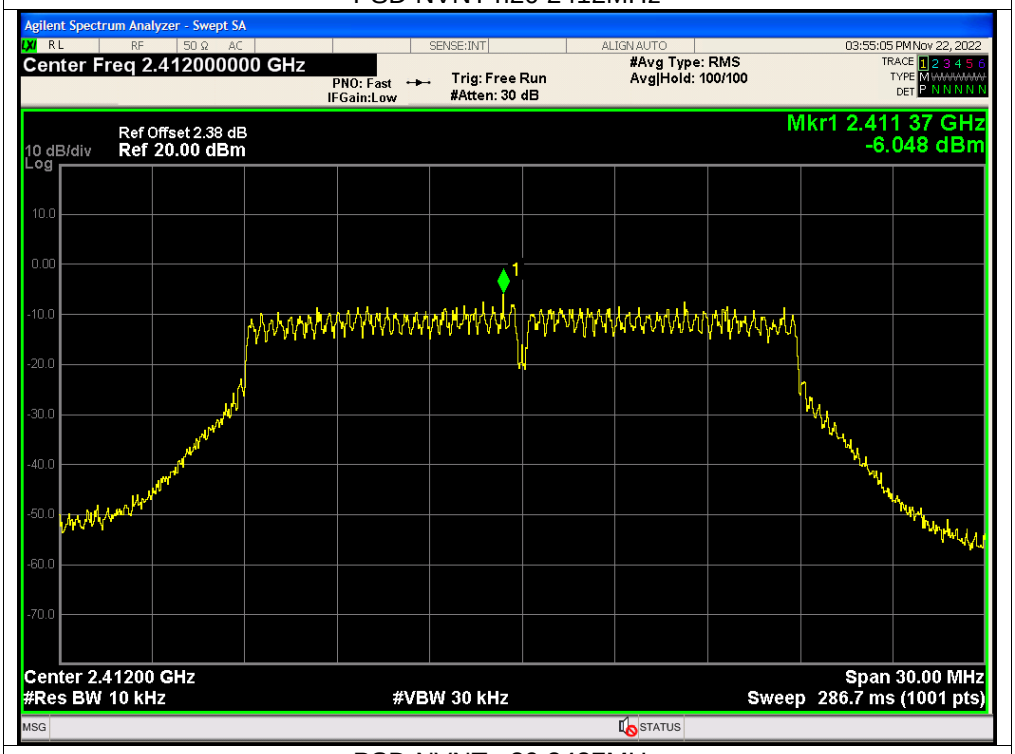
PSD NVNT g 2437MHz



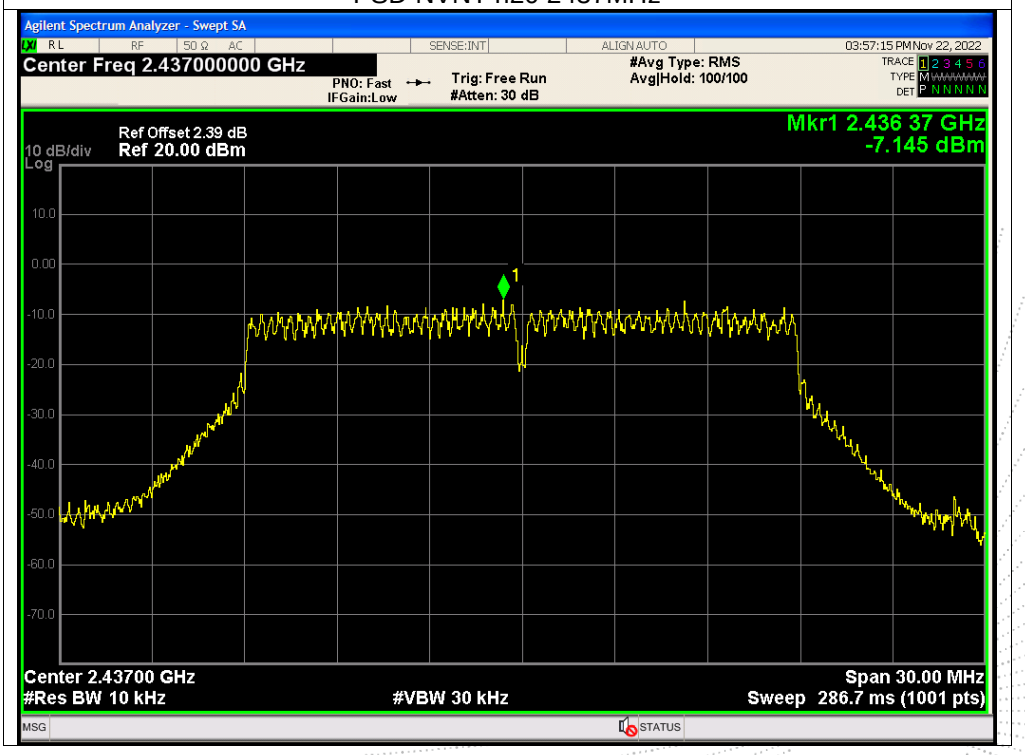
PSD NVNT g 2462MHz



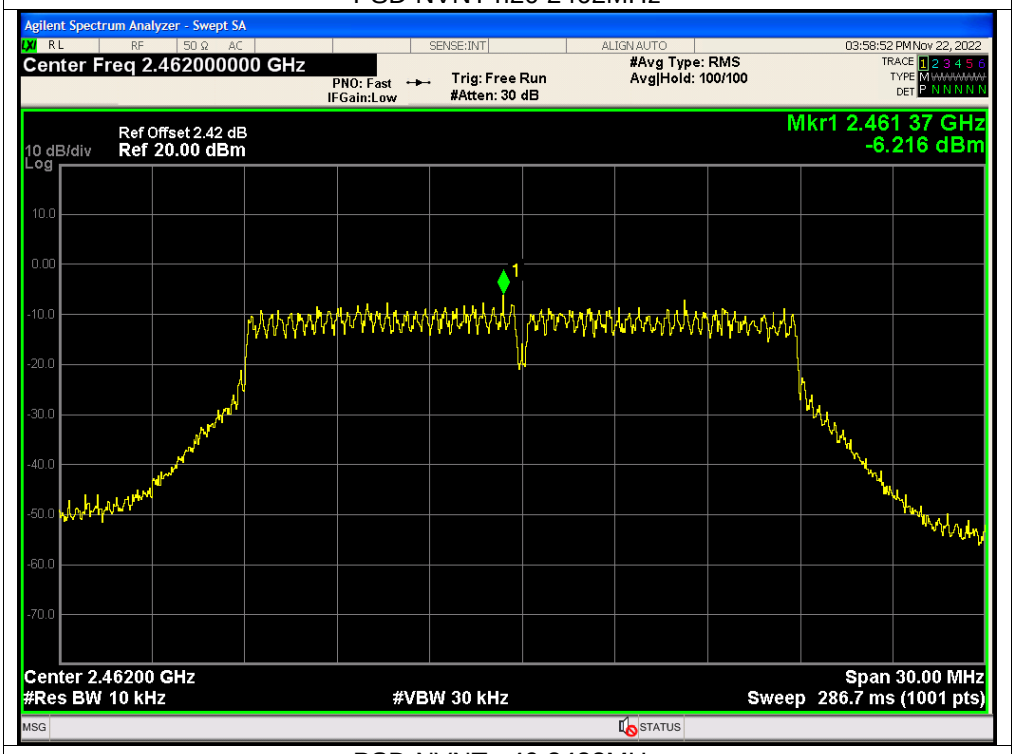
PSD NVNT n20 2412MHz



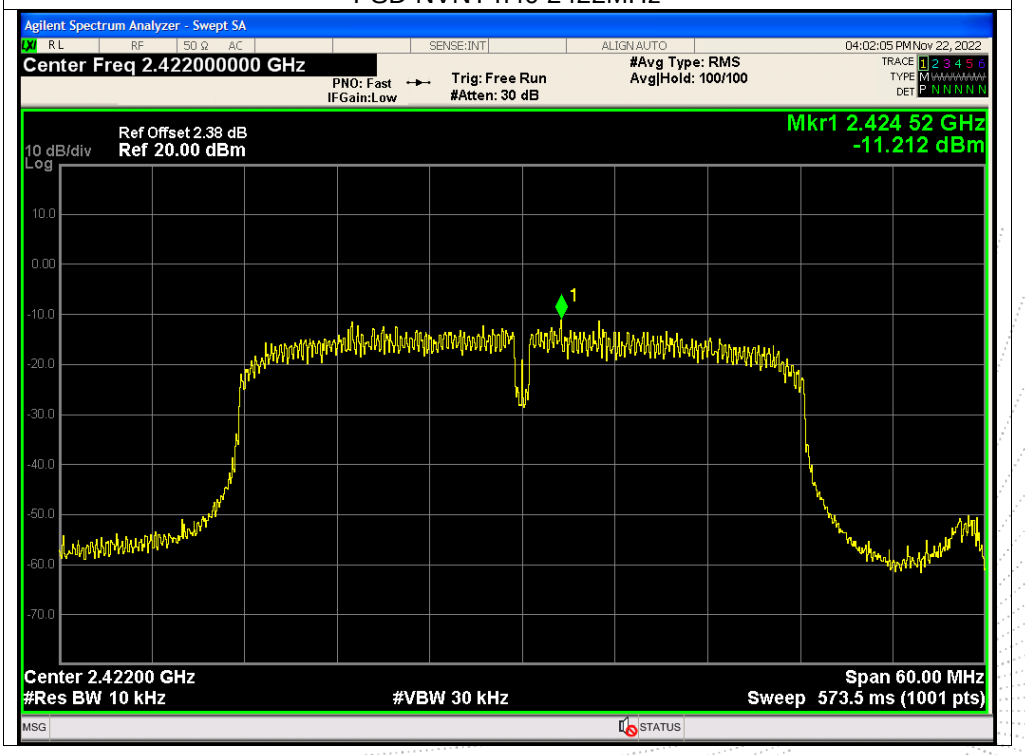
PSD NVNT n20 2437MHz



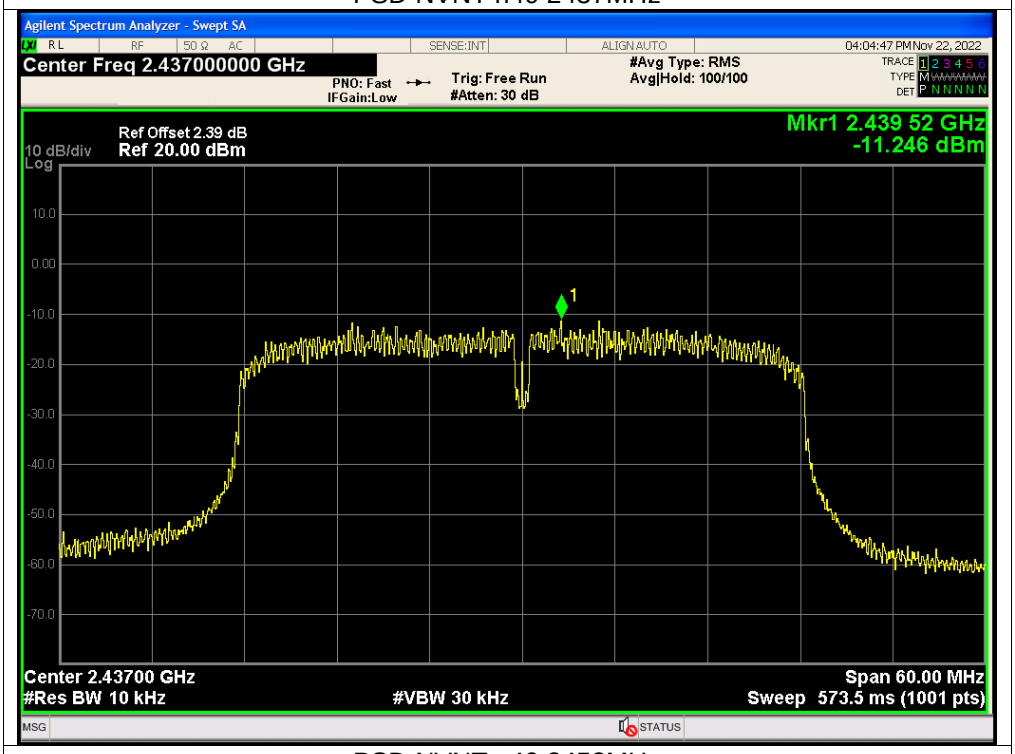
PSD NVNT n20 2462MHz



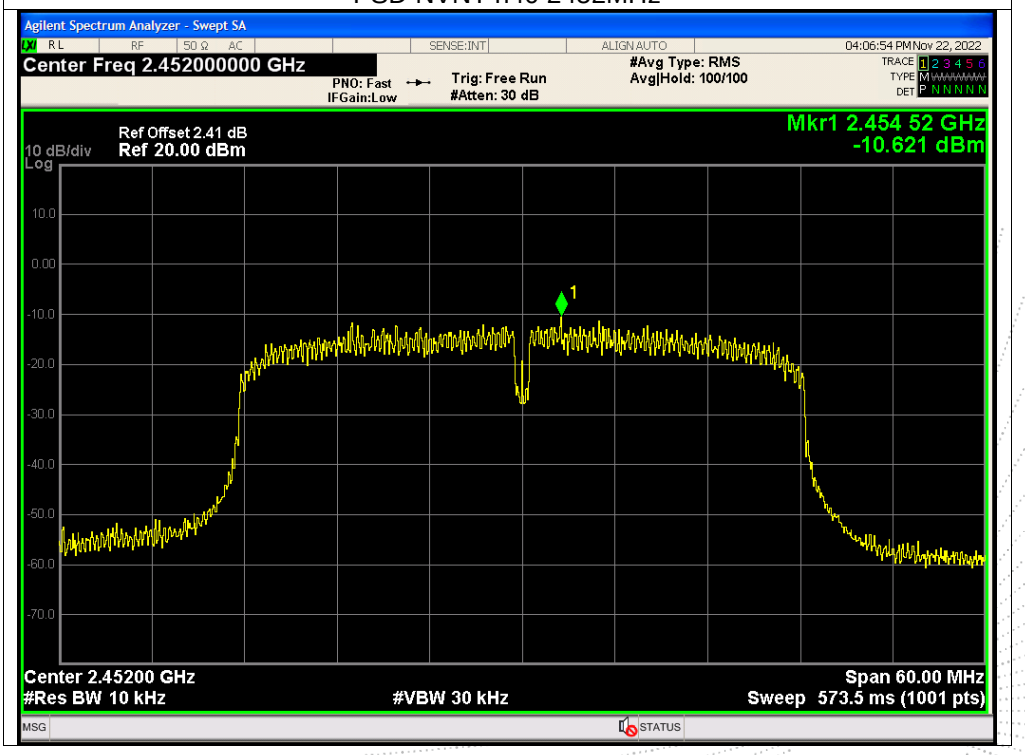
PSD NVNT n40 2422MHz



PSD NVNT n40 2437MHz

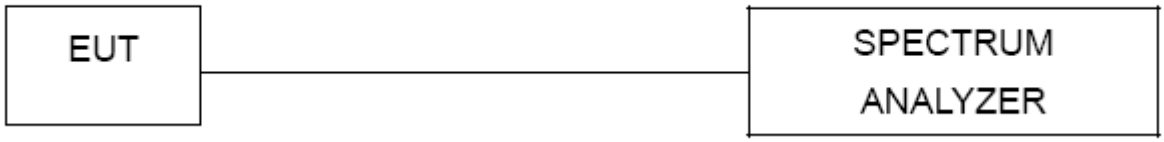


PSD NVNT n40 2452MHz



10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (-6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

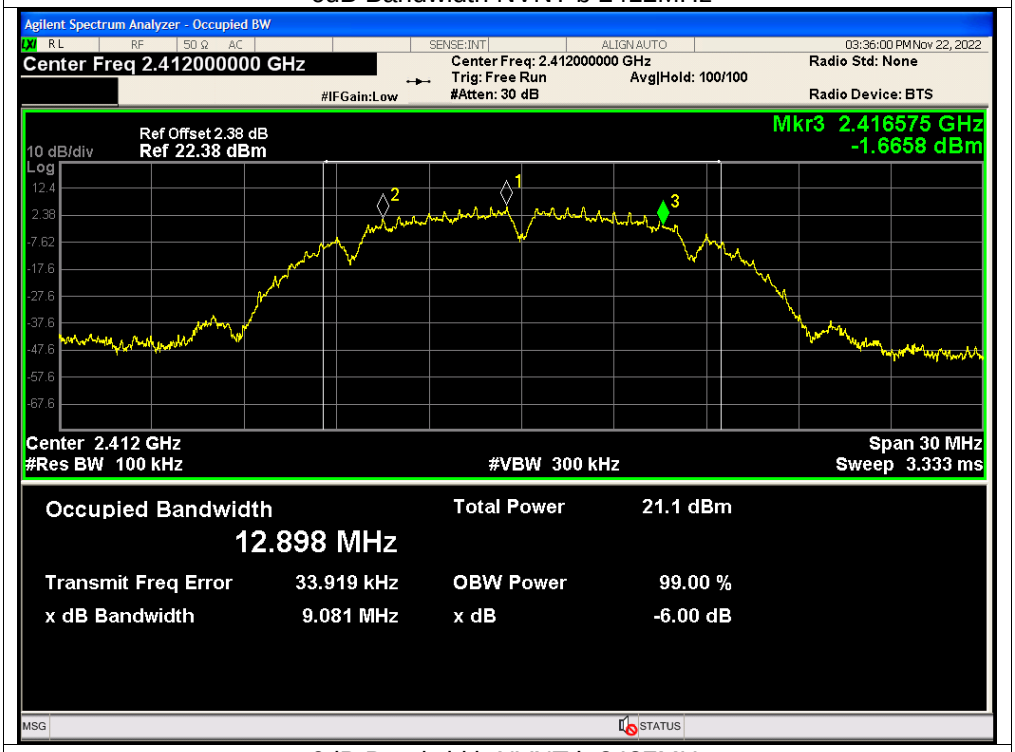
10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V

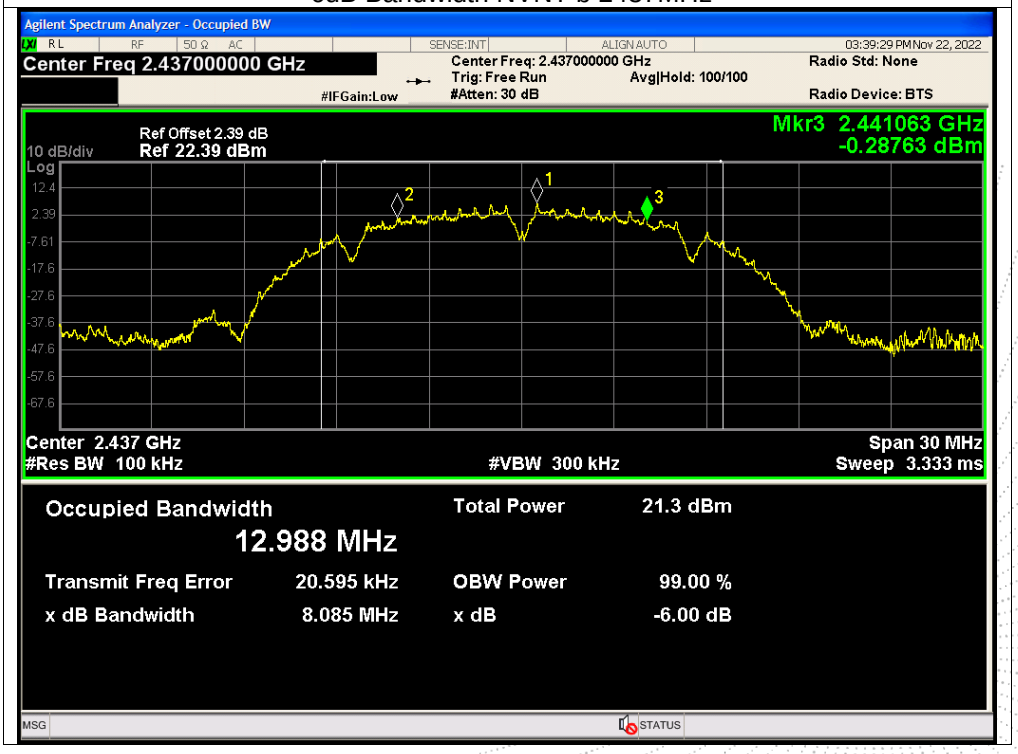
Test Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
TX b Mode	2412	9.081	500	Pass
	2437	8.085	500	Pass
	2462	9.479	500	Pass
TX g Mode	2412	16.350	500	Pass
	2437	16.344	500	Pass
	2462	16.347	500	Pass
TX n Mode(20M)	2412	17.547	500	Pass
	2437	17.595	500	Pass
	2462	17.556	500	Pass
TX n Mode(40M)	2422	31.377	500	Pass
	2437	32.535	500	Pass
	2452	31.107	500	Pass

Test Graphs

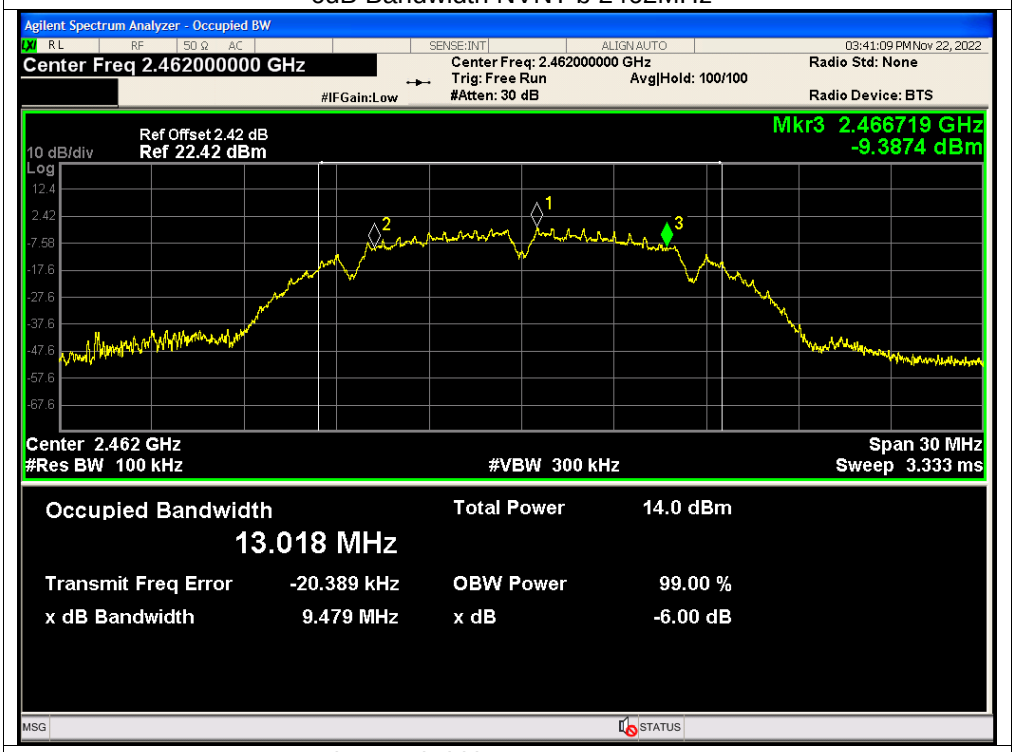
-6dB Bandwidth NVNT b 2412MHz



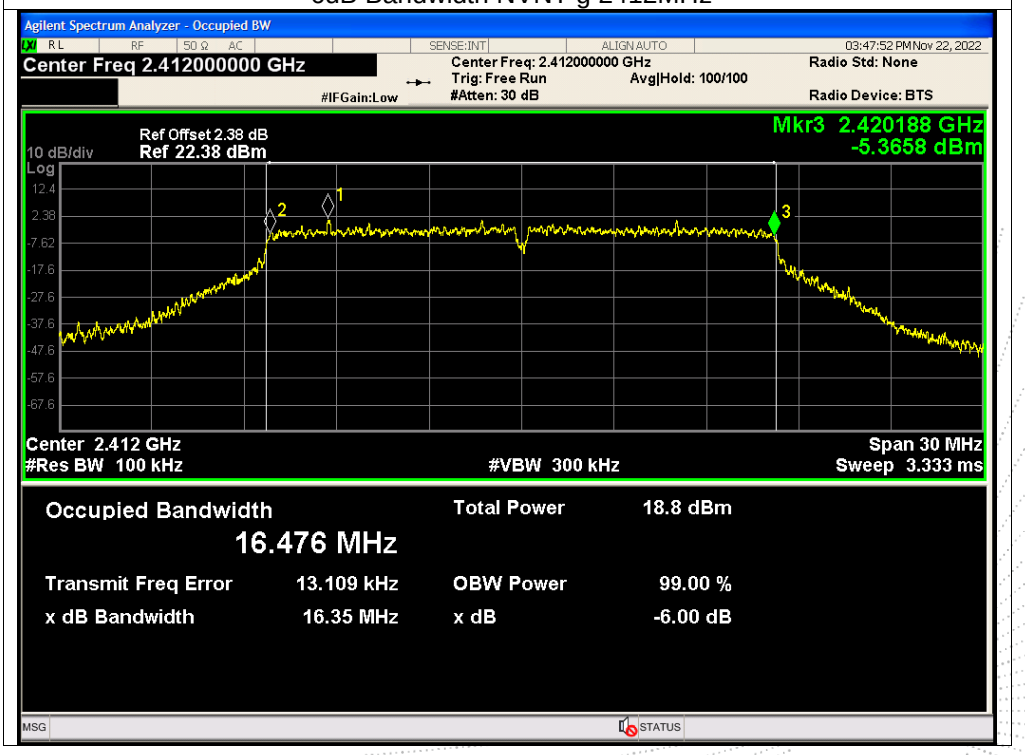
-6dB Bandwidth NVNT b 2437MHz



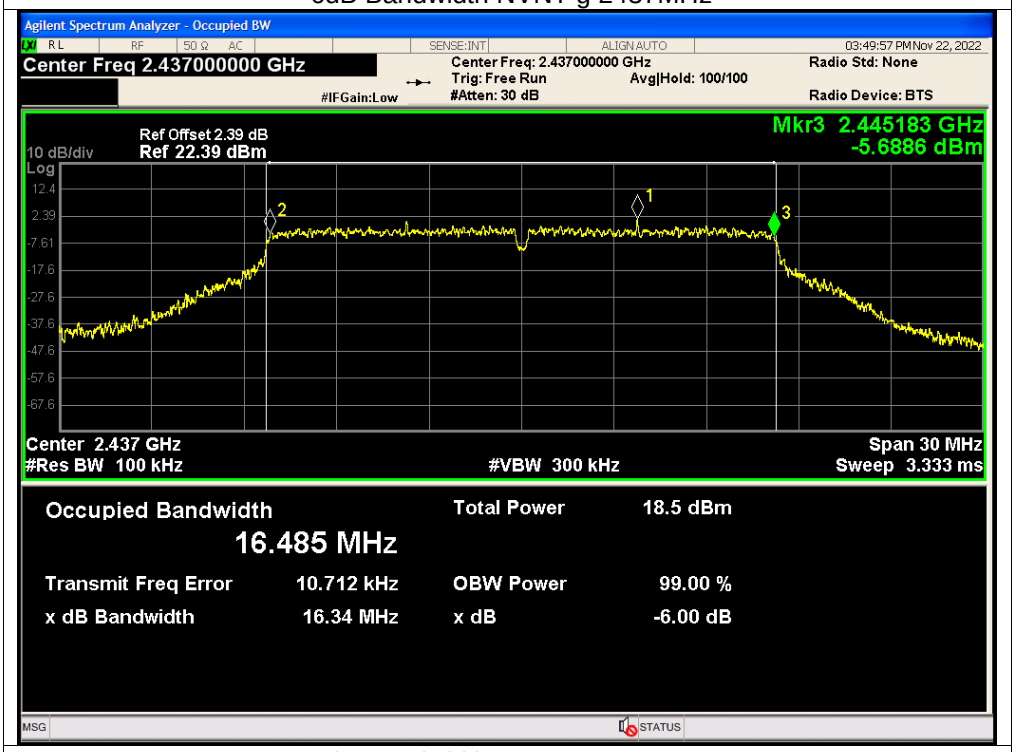
-6dB Bandwidth NVNT b 2462MHz



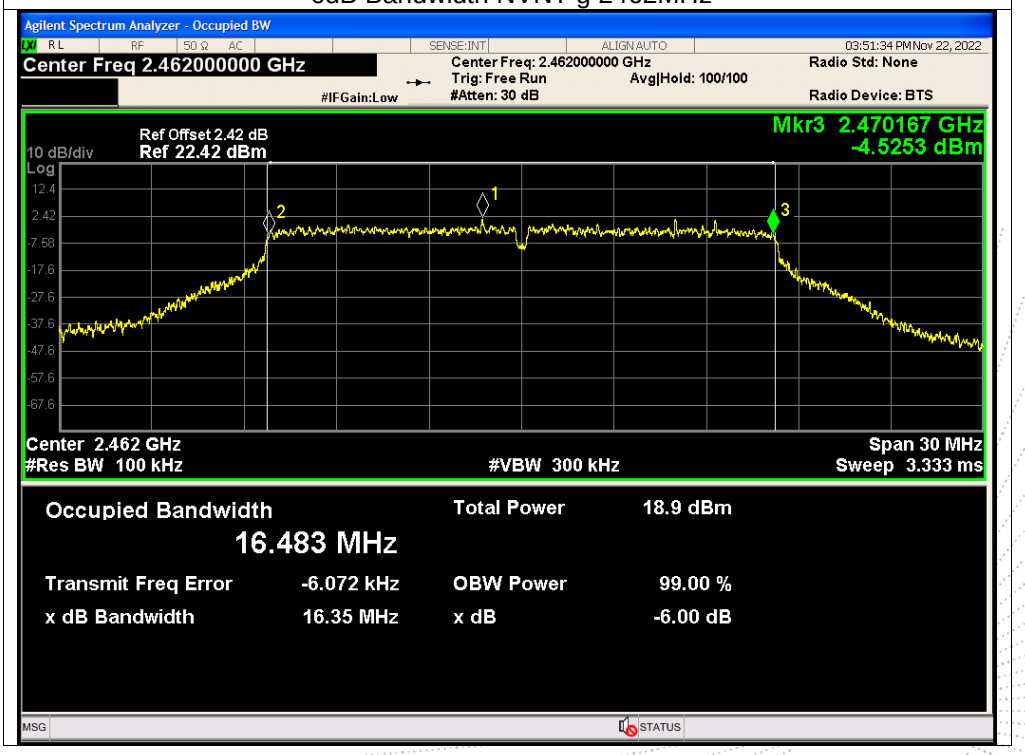
-6dB Bandwidth NVNT g 2412MHz



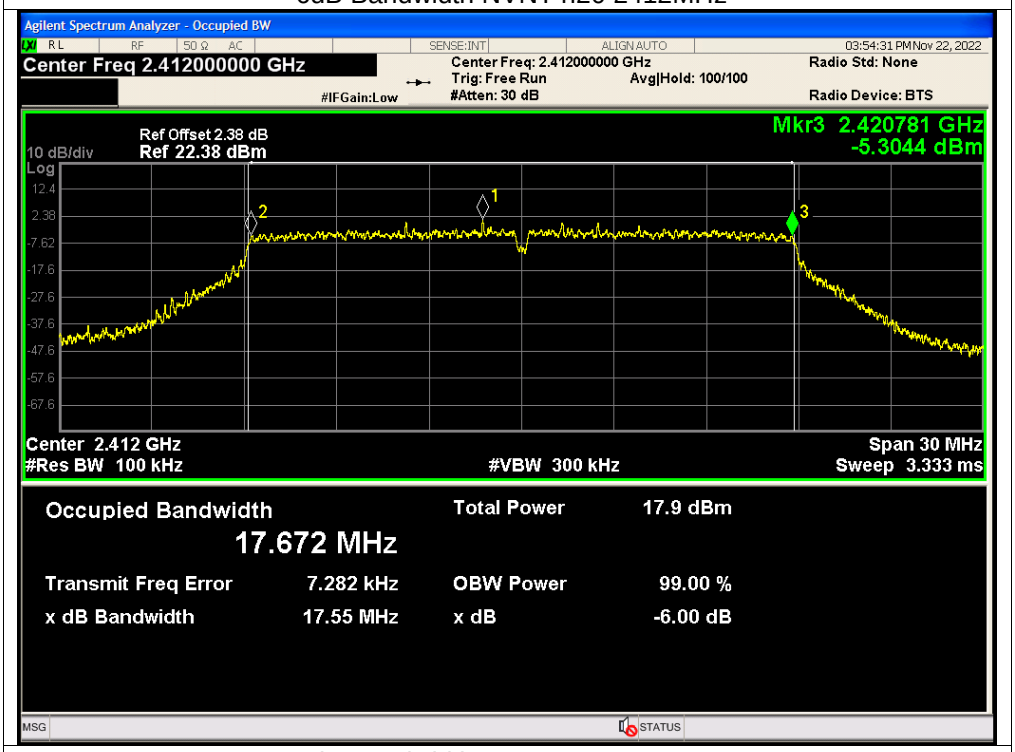
-6dB Bandwidth NVNT g 2437MHz



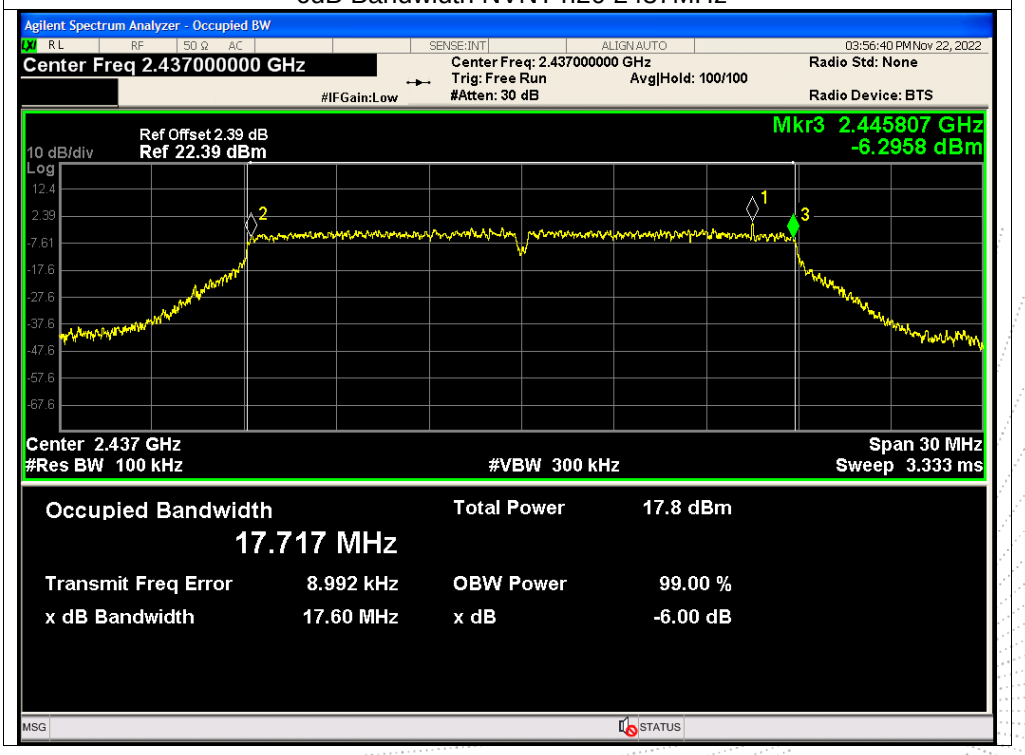
-6dB Bandwidth NVNT g 2462MHz



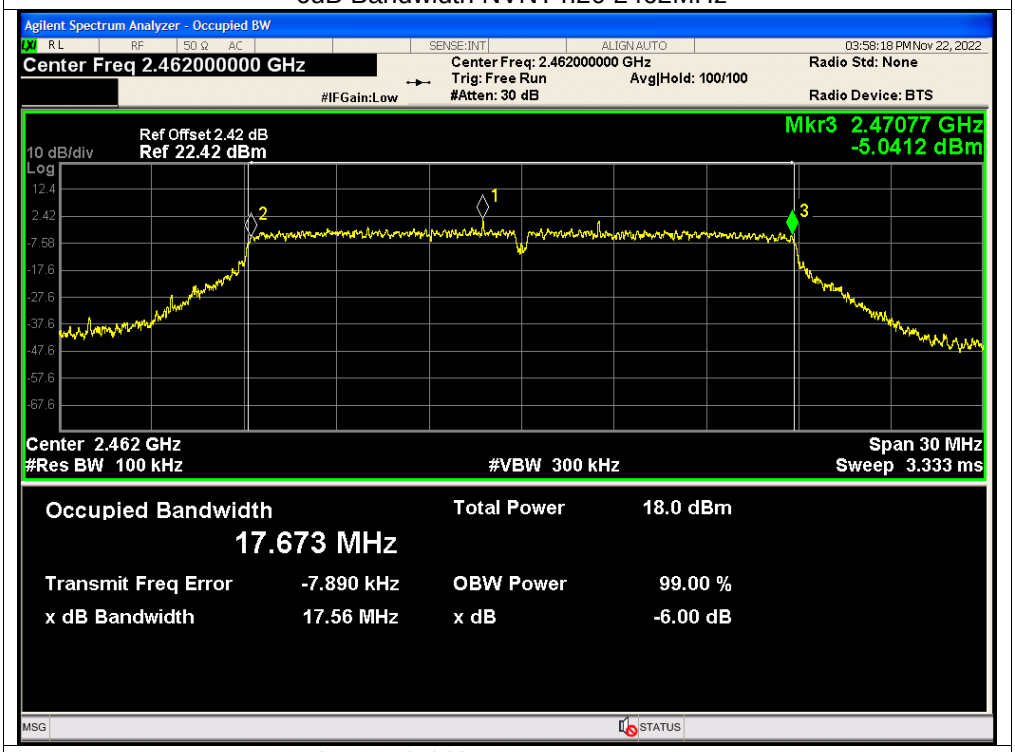
-6dB Bandwidth NVNT n20 2412MHz



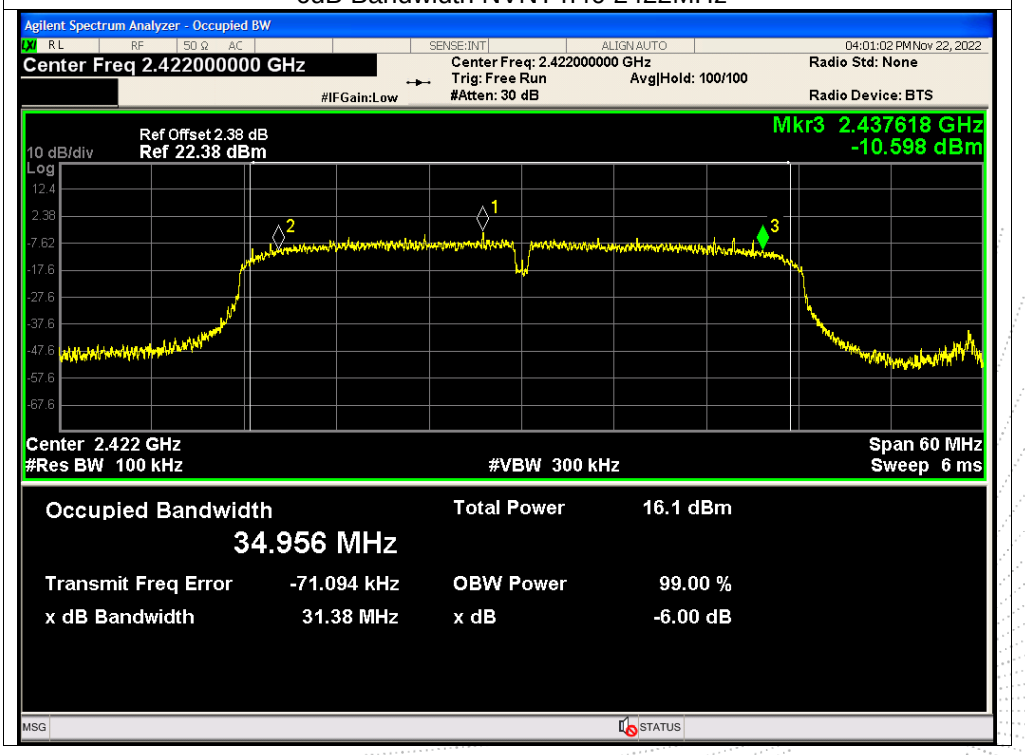
-6dB Bandwidth NVNT n20 2437MHz



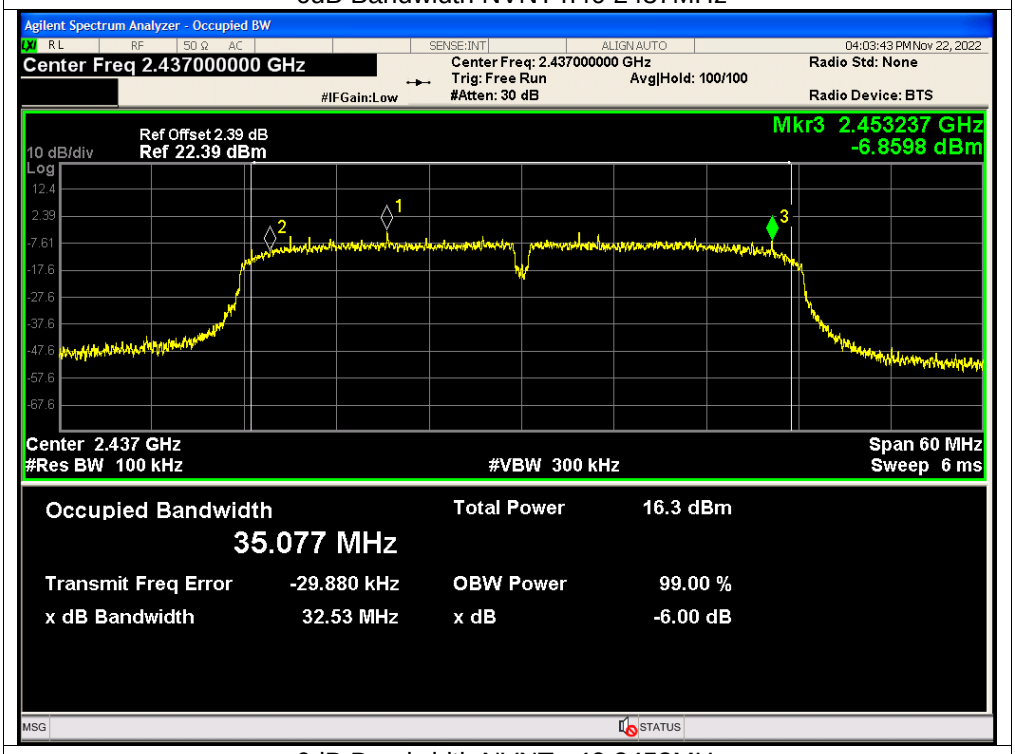
-6dB Bandwidth NVNT n20 2462MHz



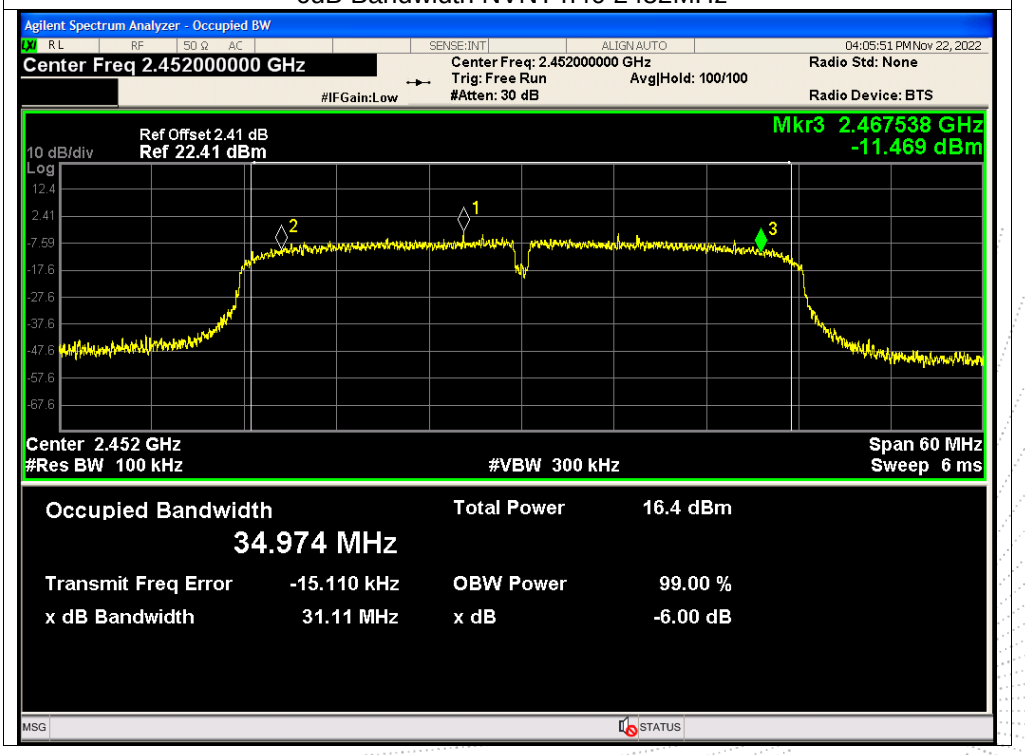
-6dB Bandwidth NVNT n40 2422MHz



-6dB Bandwidth NVNT n40 2437MHz



-6dB Bandwidth NVNT n40 2452MHz



11. Peak Output Power Test

11.1 Block Diagram Of Test Setup

11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Note: Power Spectral Density(dBm)=Reading+Cable Loss

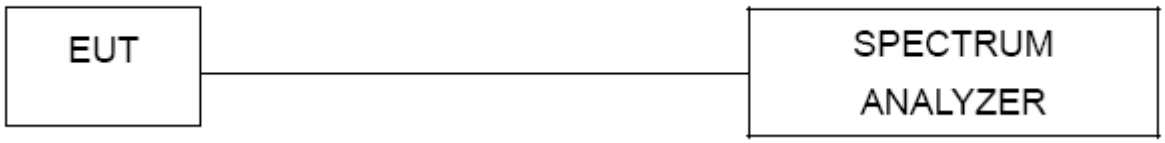
11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 5V

Test Mode	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Limit (dBm)
802.11b	2412	14.84	30
	2437	14.46	30
	2462	14.85	30
802.11g	2412	13.16	30
	2437	12.93	30
	2462	13.26	30
802.11n20	2412	12.30	30
	2437	12.01	30
	2462	12.35	30
802.11n40	2422	10.34	30
	2437	10.40	30
	2452	10.33	30

12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 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.

12.3 Test Procedure

Using the following spectrum analyzer setting:
a) Set the RBW = 100KHz.
b) Set the VBW = 300KHz.
c) Sweep time = auto couple.
d) Detector function = peak.
e) Trace mode = max hold.
f) Allow trace to fully stabilize..

12.4 EUT Operating Conditions

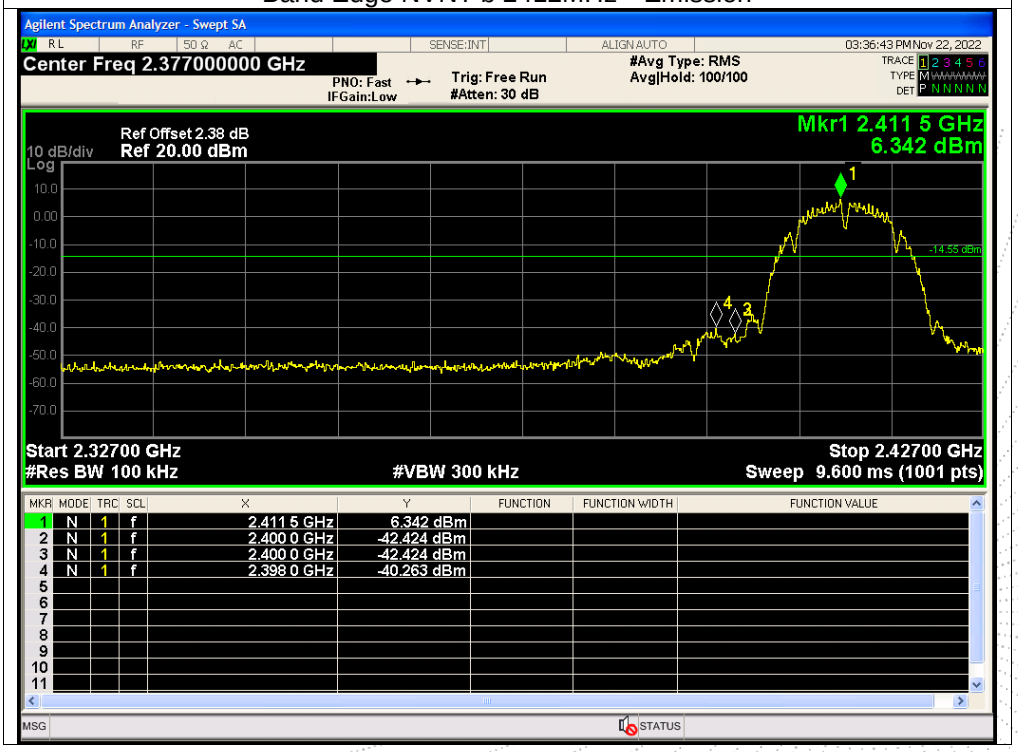
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Note: Power Spectral Density(dBm)=Reading+Cable Loss

12.5 Test Result

Test Graphs

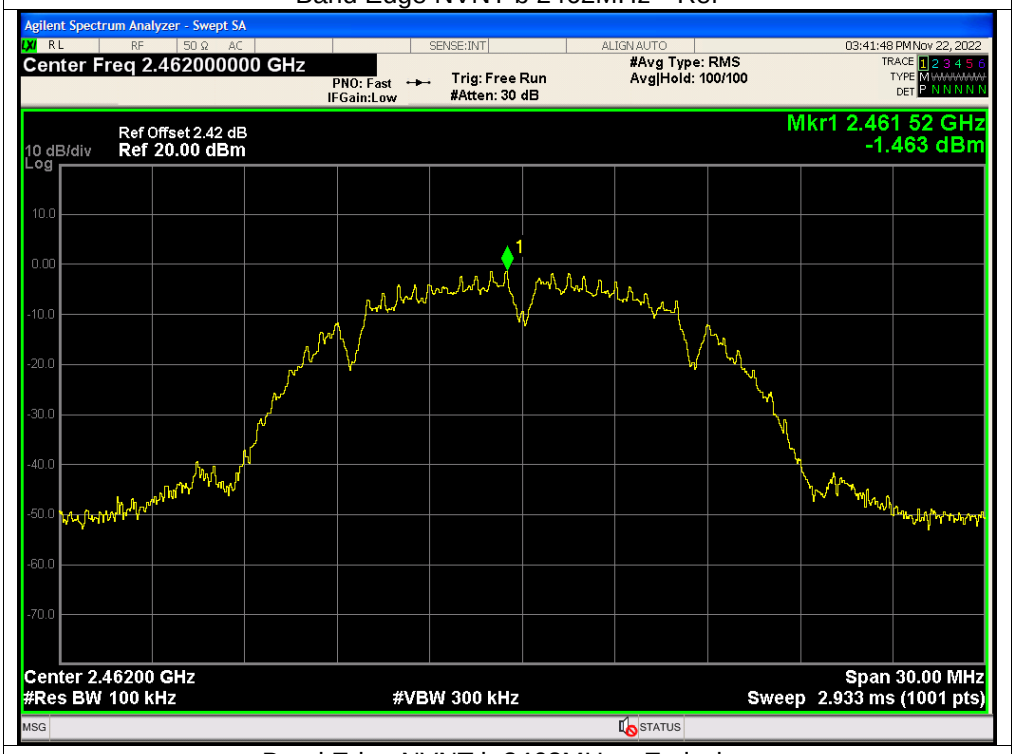
Band Edge NVNT b 2412MHz Ref

Band Edge NVNT b 2412MHz Emission

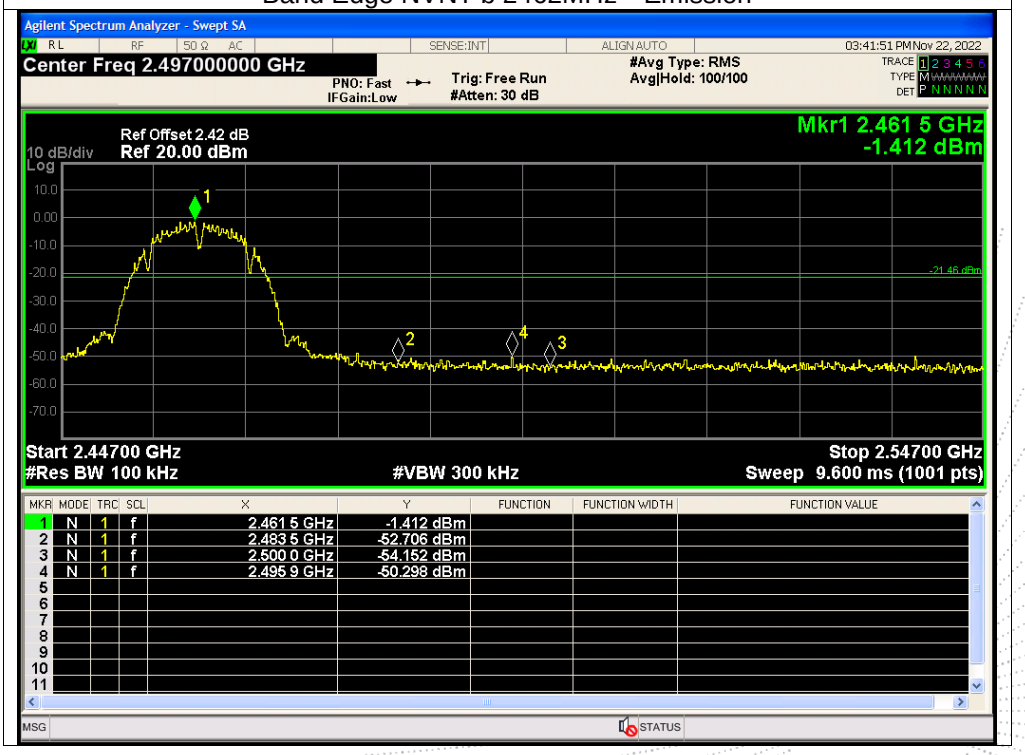


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.411 5 GHz	6.342 dBm			
2	N	1	f	2.400 0 GHz	-42.424 dBm			
3	N	1	f	2.400 0 GHz	-42.424 dBm			
4	N	1	f	2.398 0 GHz	-40.263 dBm			
5								
6								
7								
8								
9								
10								
11								

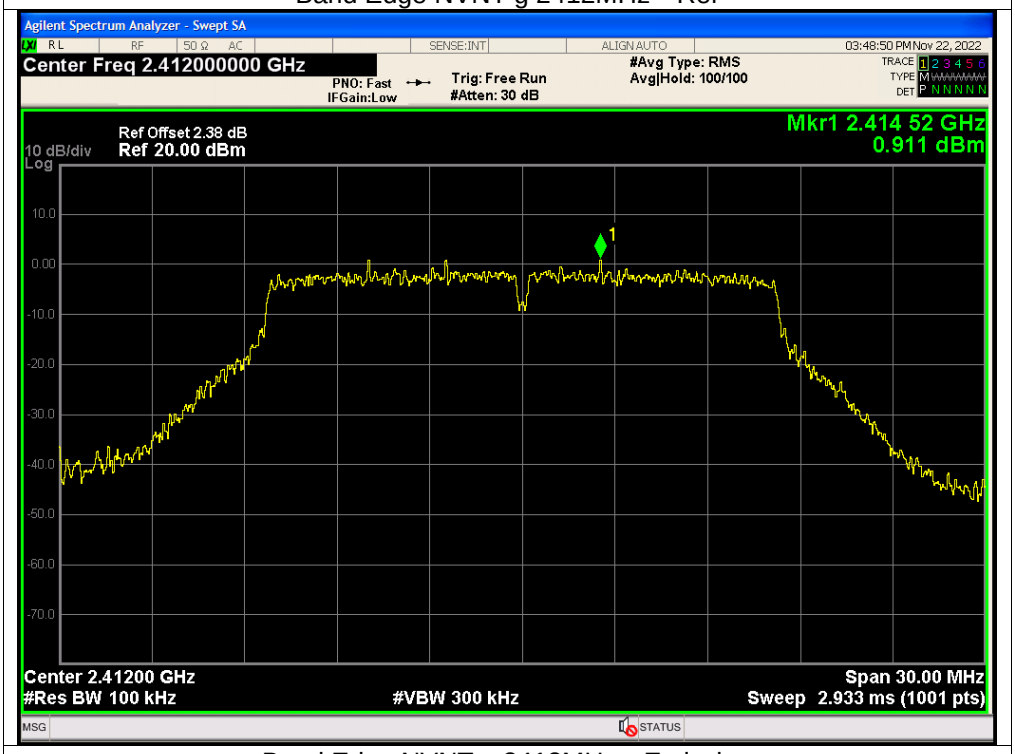
Band Edge NVNT b 2462MHz Ref



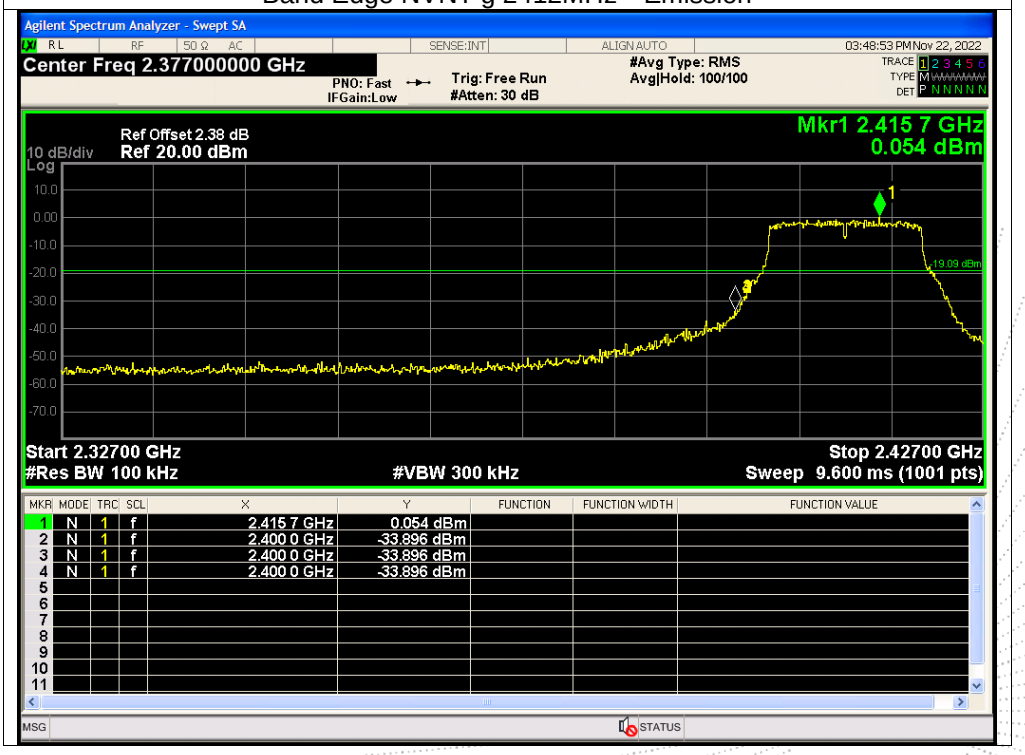
Band Edge NVNT b 2462MHz Emission



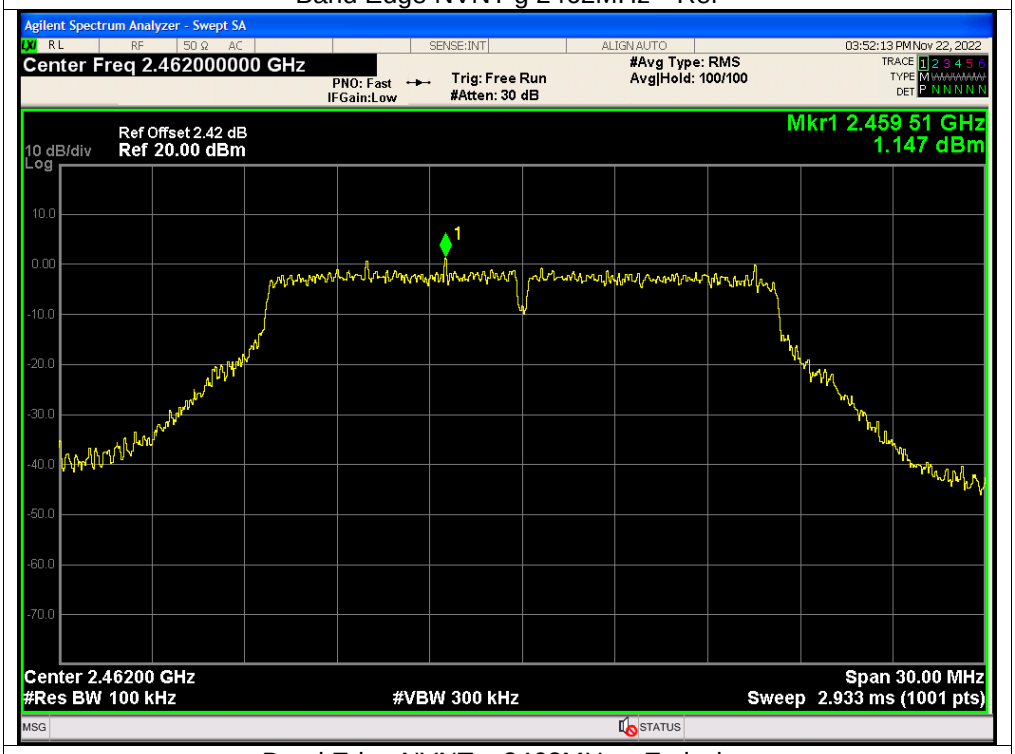
Band Edge NVNT g 2412MHz Ref



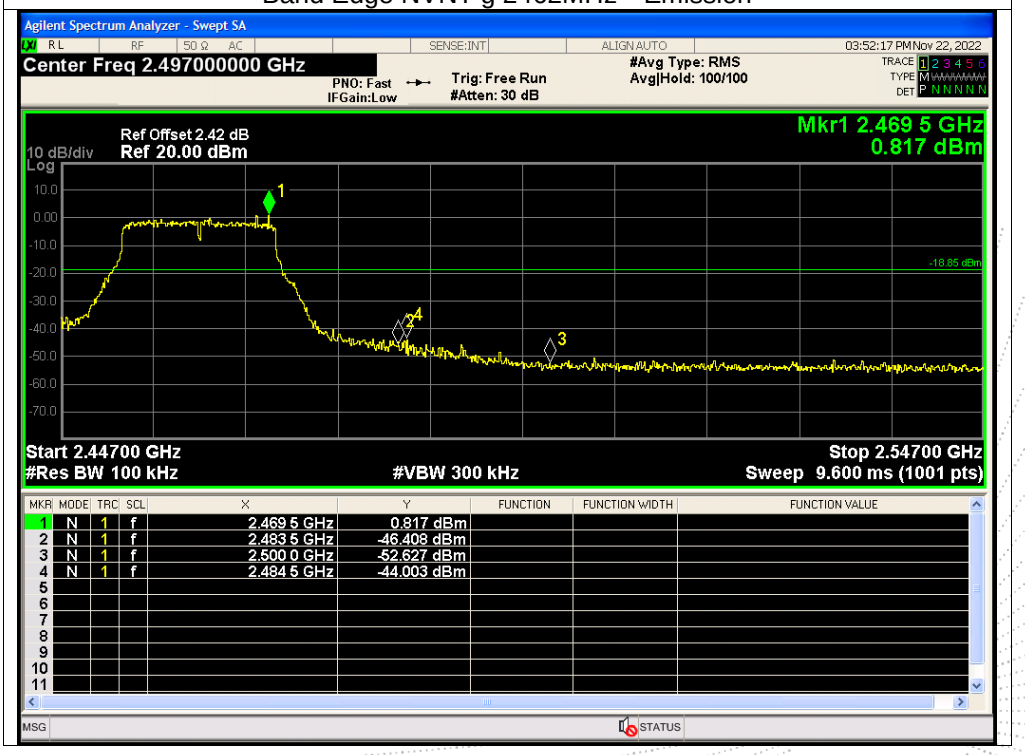
Band Edge NVNT g 2412MHz Emission



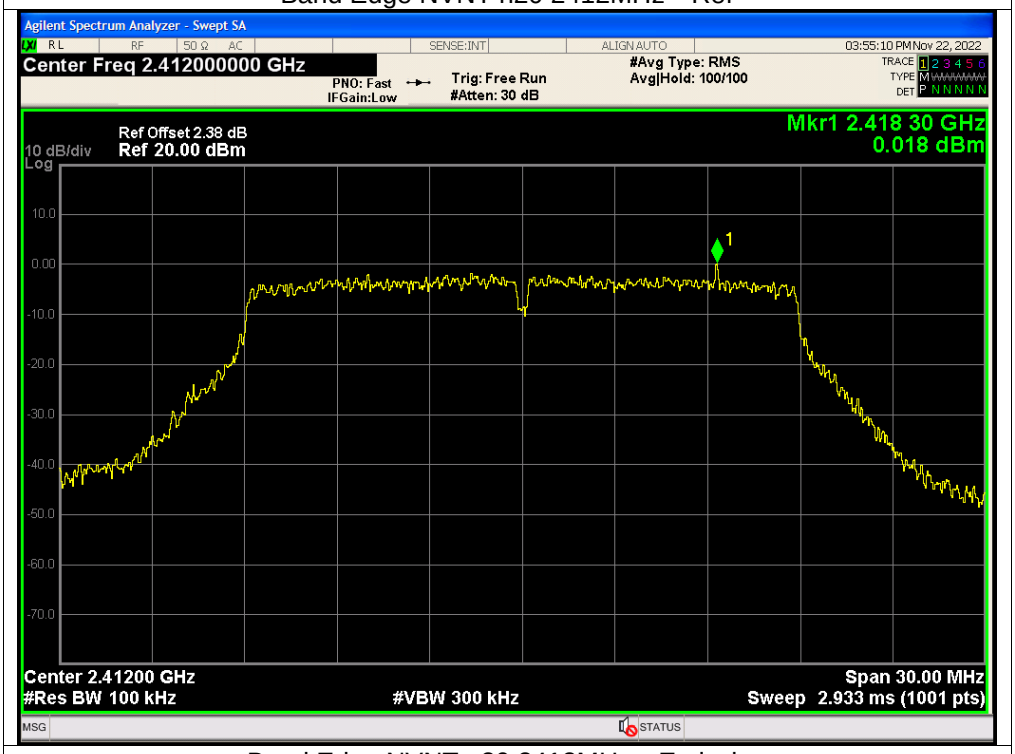
Band Edge NVNT g 2462MHz Ref



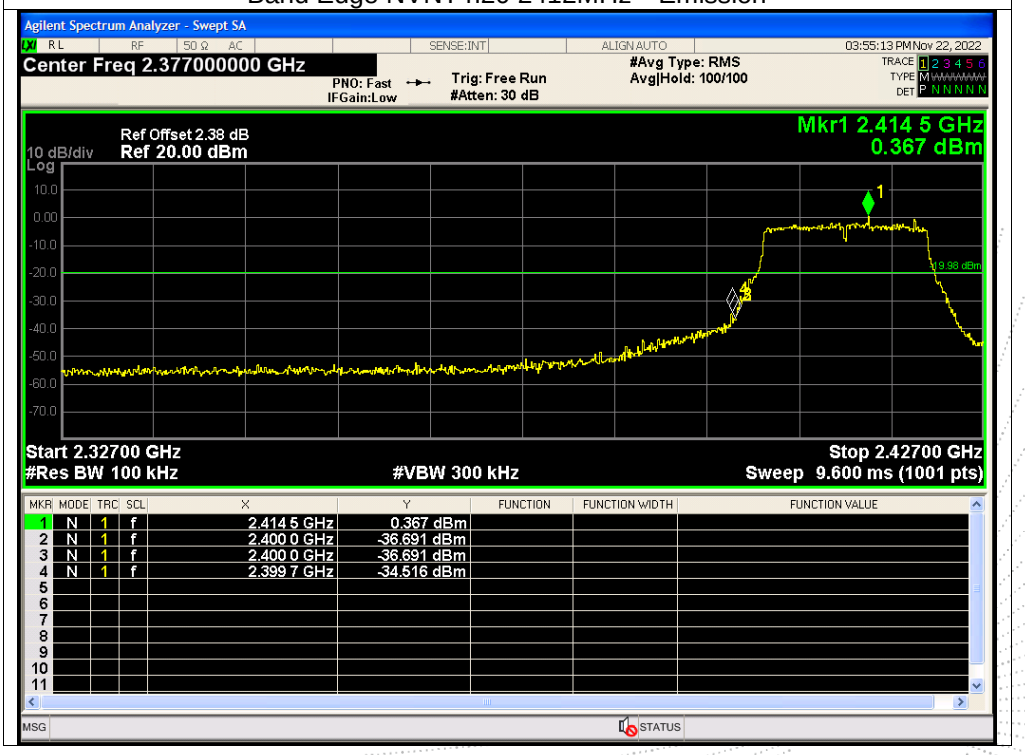
Band Edge NVNT g 2462MHz Emission



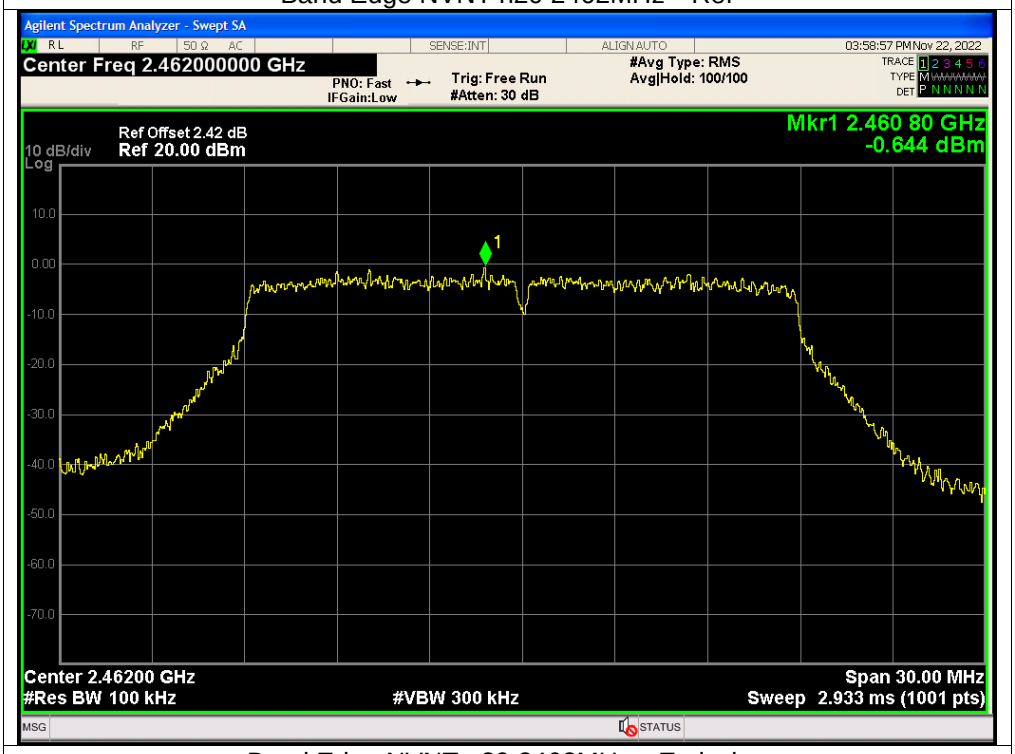
Band Edge NVNT n20 2412MHz Ref



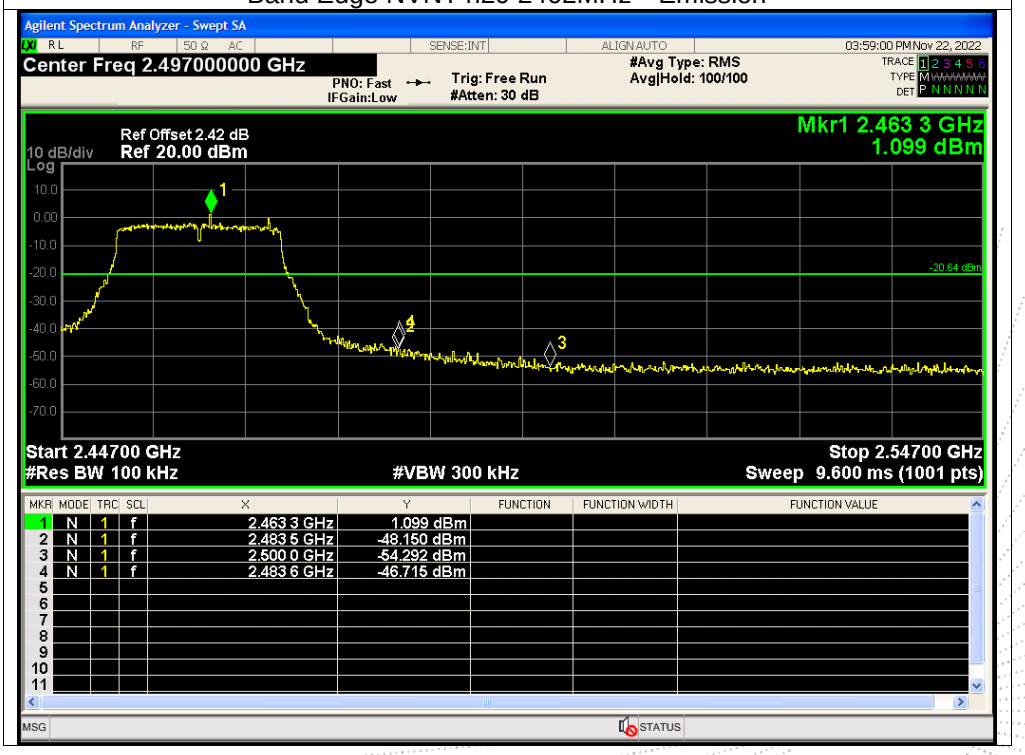
Band Edge NVNT n20 2412MHz Emission



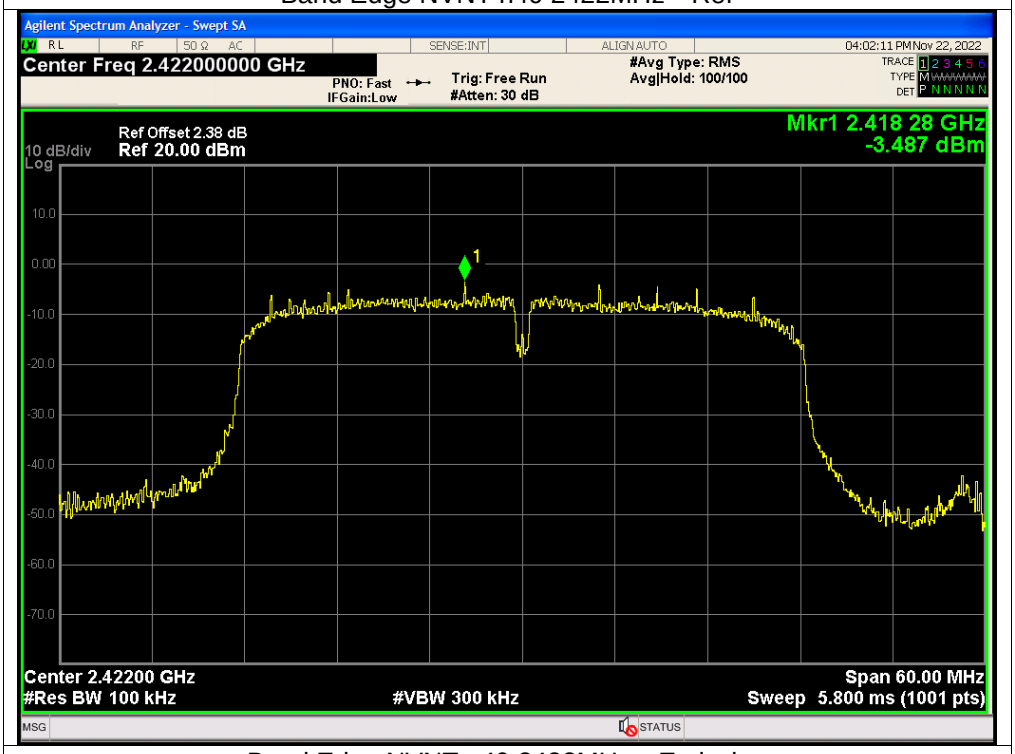
Band Edge NVNT n20 2462MHz Ref



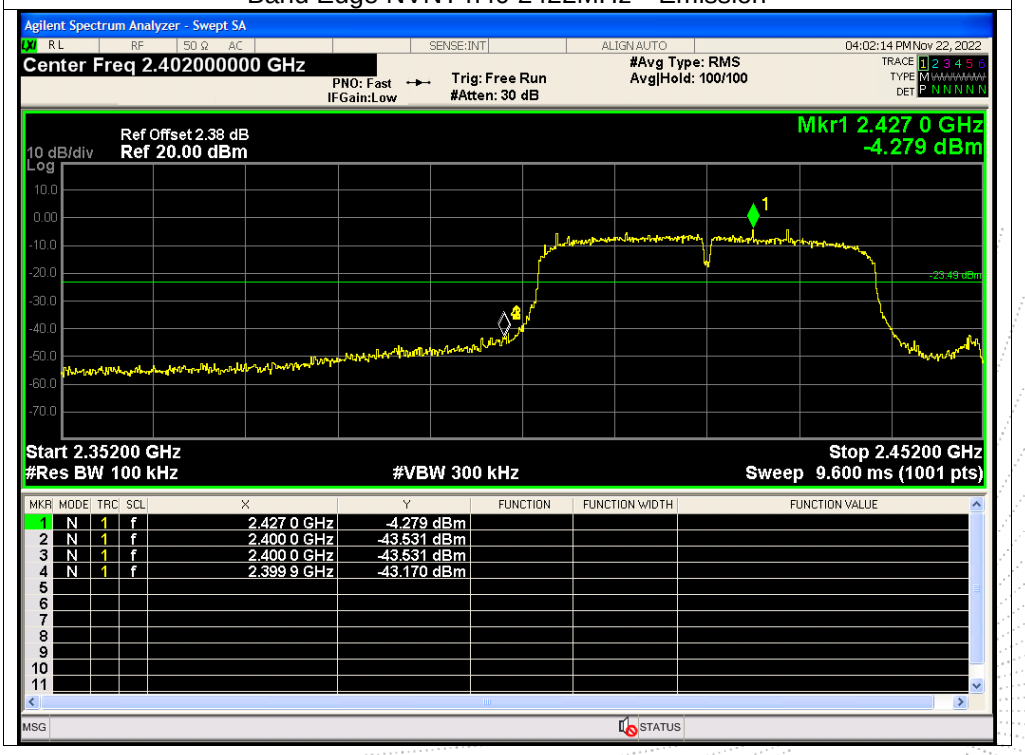
Band Edge NVNT n20 2462MHz Emission



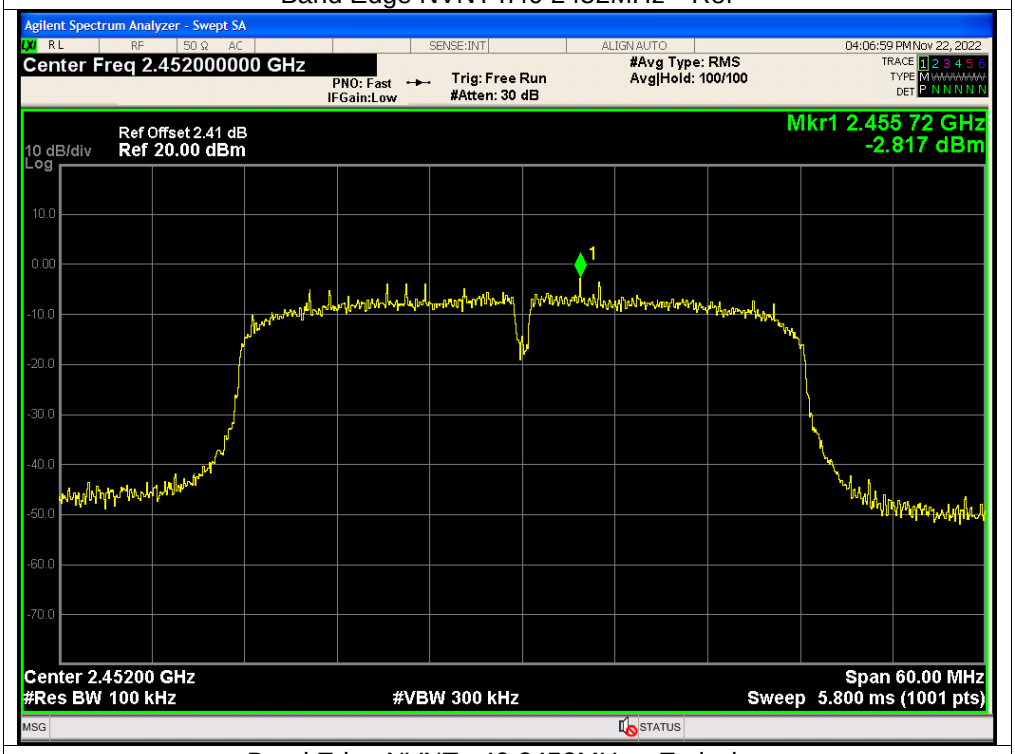
Band Edge NVNT n40 2422MHz Ref



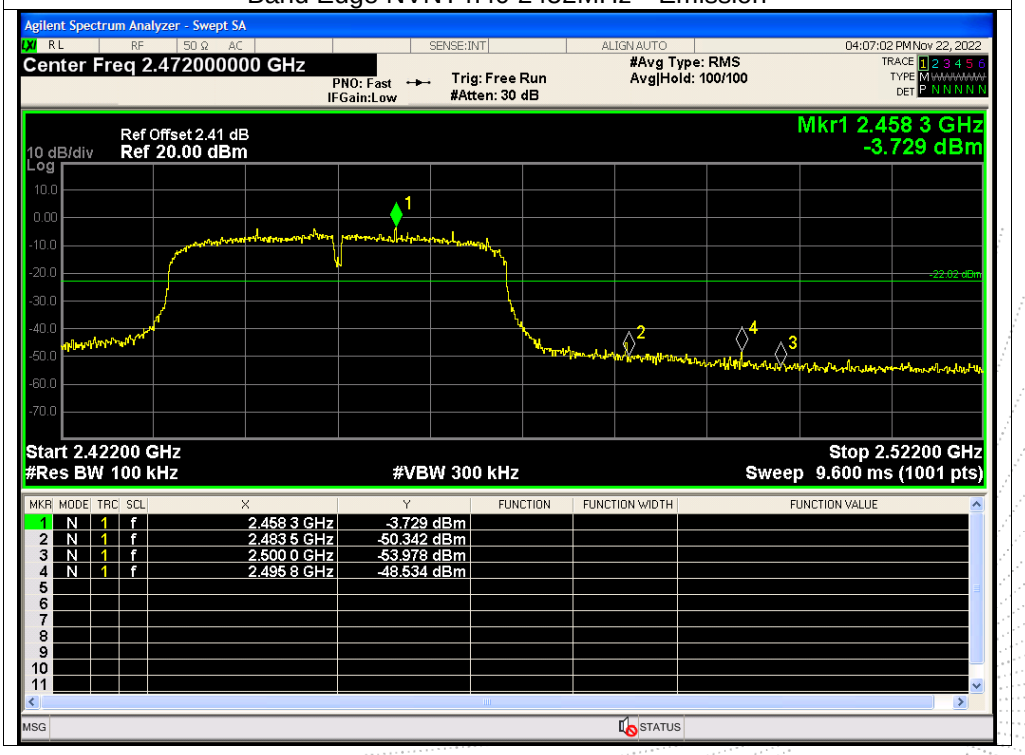
Band Edge NVNT n40 2422MHz Emission



Band Edge NVNT n40 2452MHz Ref



Band Edge NVNT n40 2452MHz Emission

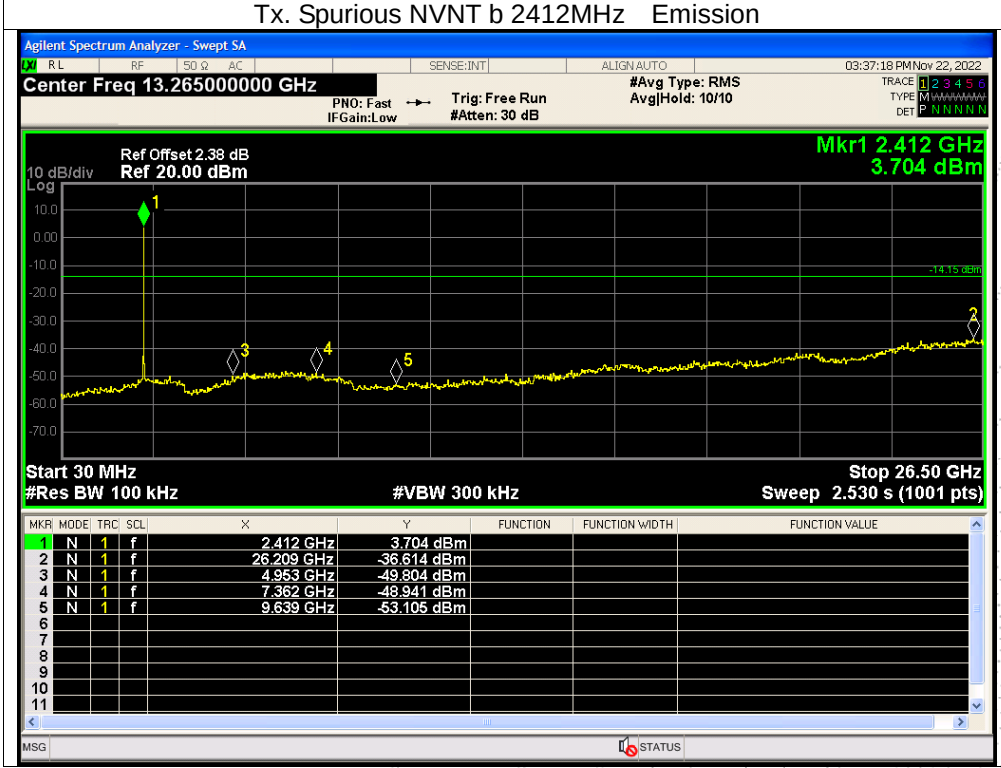


Conducted Emission Measurement

Test Graphs

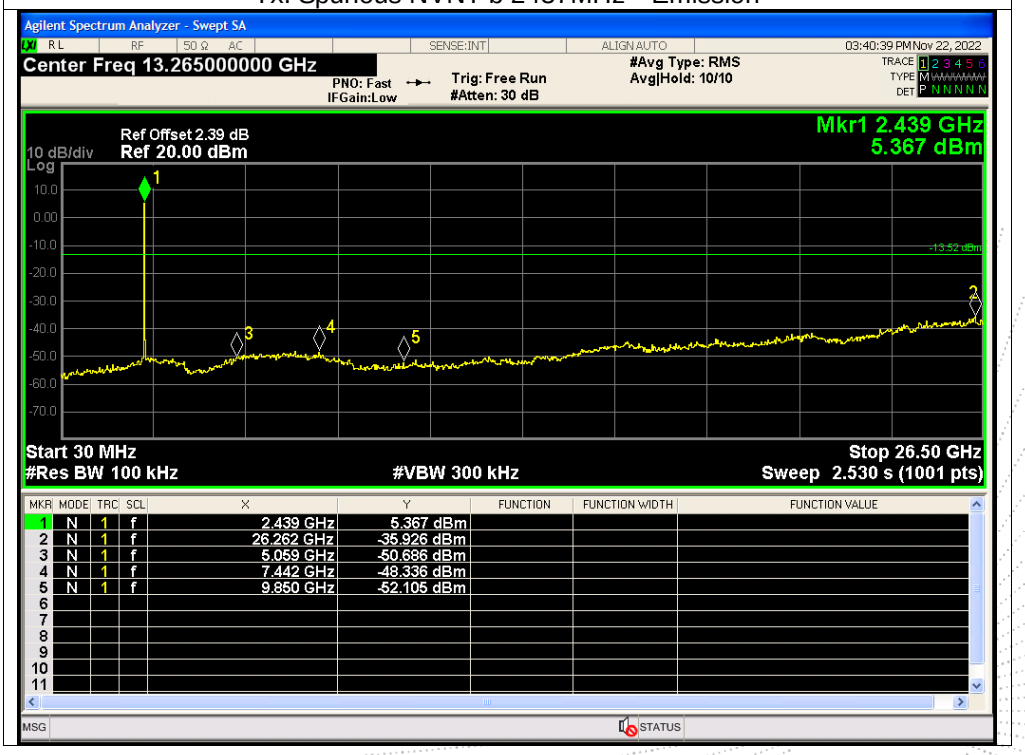
Tx. Spurious NVNT b 2412MHz Ref

Tx. Spurious NVNT b 2412MHz Emission

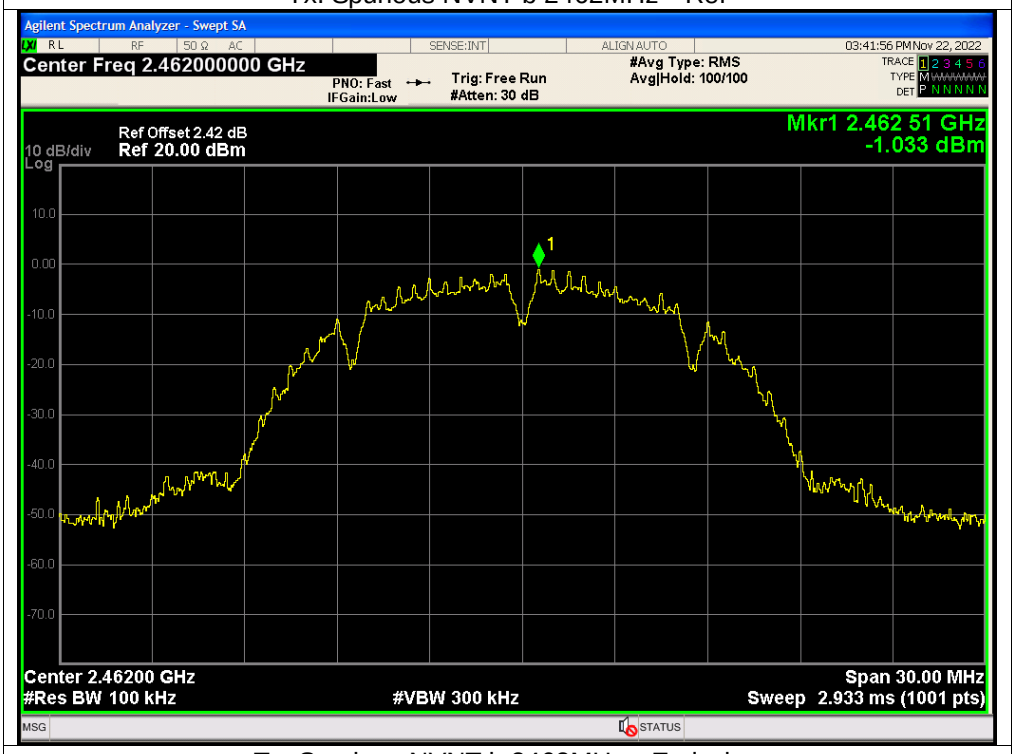


Tx. Spurious NVNT b 2437MHz Ref

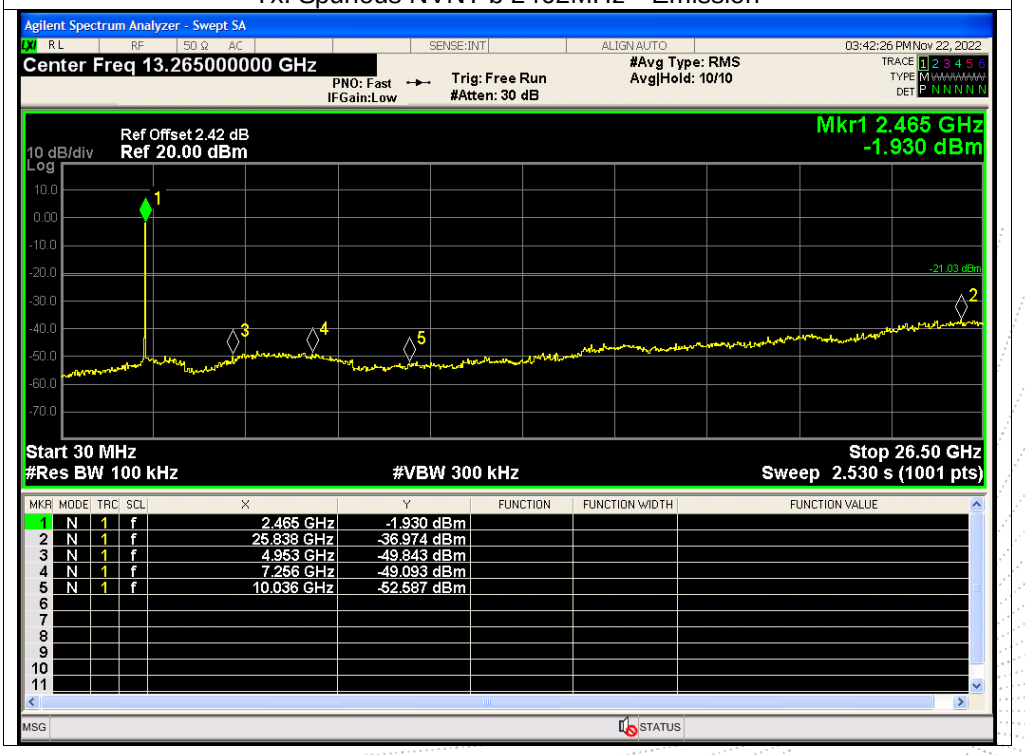
Tx. Spurious NVNT b 2437MHz Emission



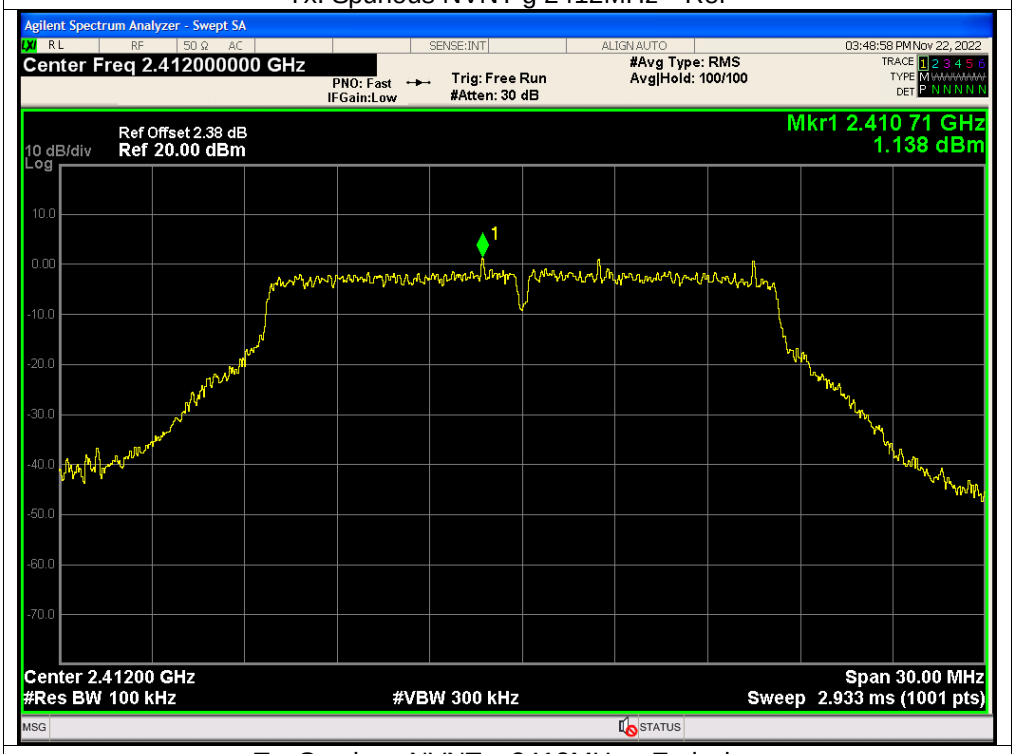
Tx. Spurious NVNT b 2462MHz Ref



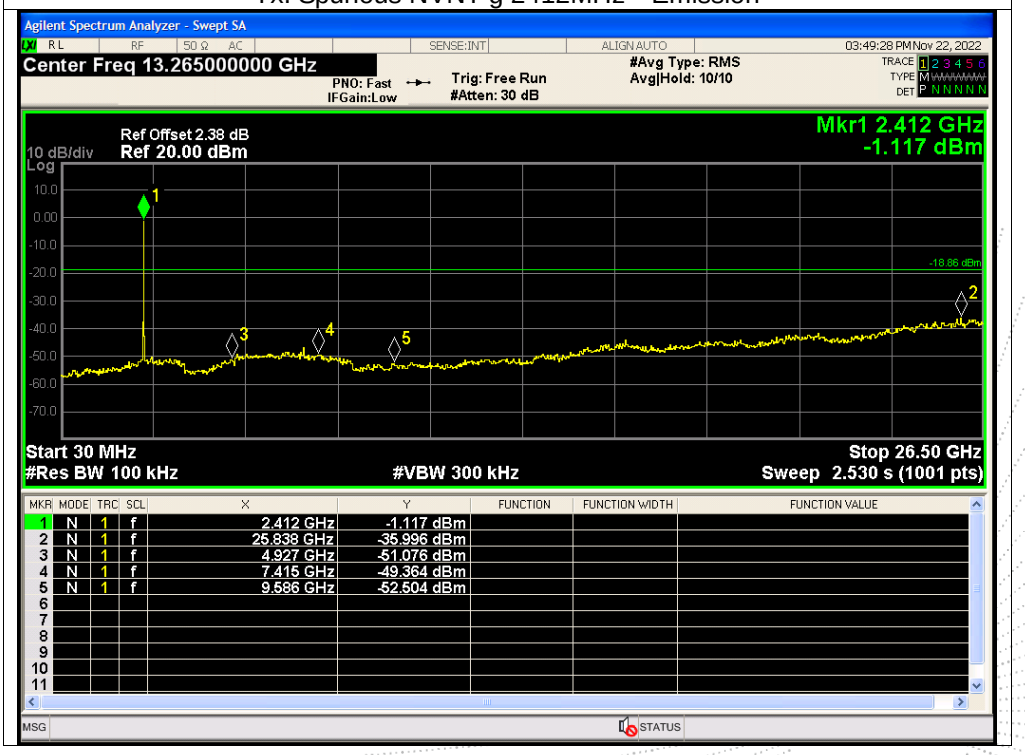
Tx. Spurious NVNT b 2462MHz Emission



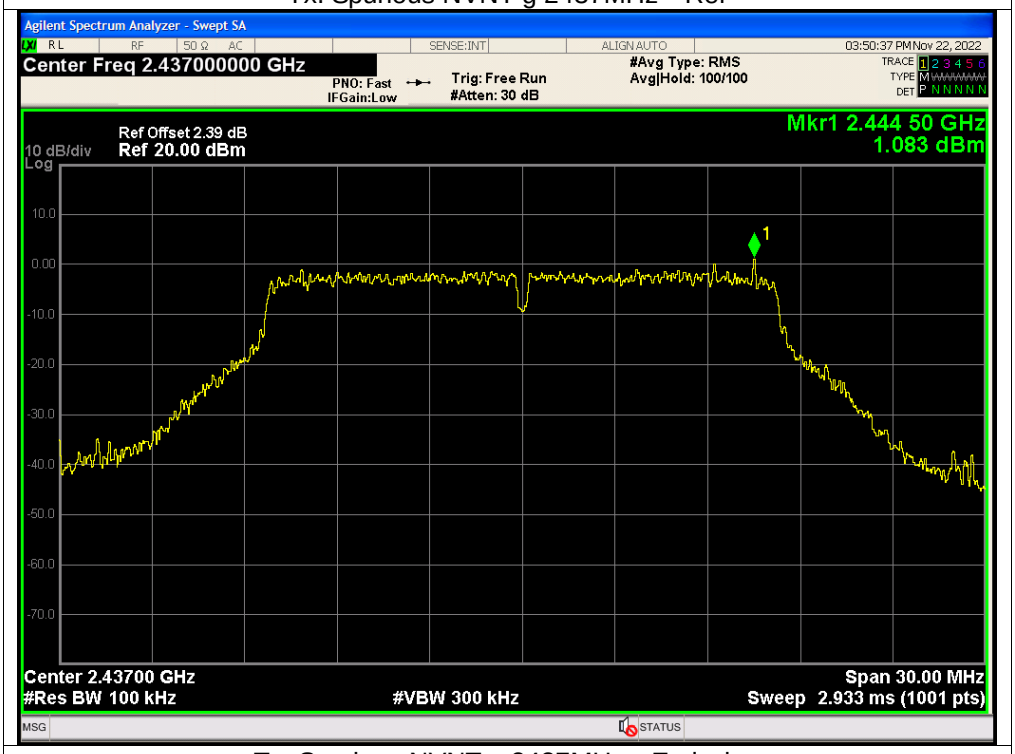
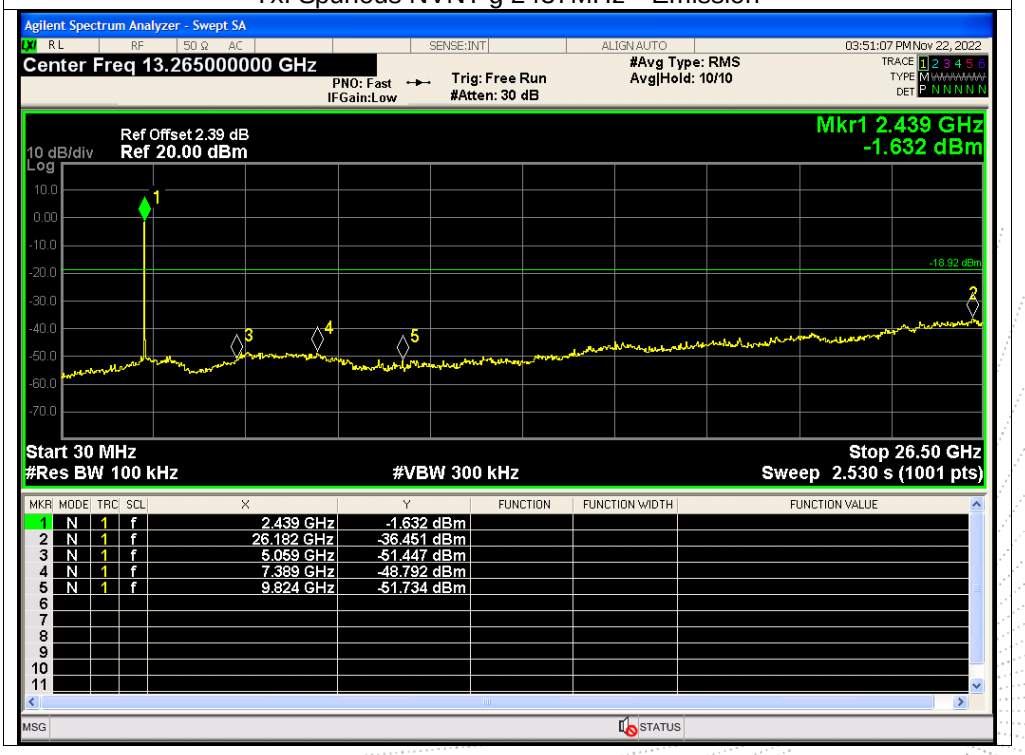
Tx. Spurious NVNT g 2412MHz Ref



Tx. Spurious NVNT g 2412MHz Emission



Tx. Spurious NVNT g 2437MHz Ref



Tx. Spurious NVNT g 2437MHz Emission