TEST REPORT

Report No.:	BCTC2303093286-3E
Applicant:	Shenzhen Xunjia Electronic Commerce Co., LTD
Product Name:	MID
Model/Type Ref.:	K10
Tested Date:	2023-03-20 to 2023-03-31
Issued Date:	2023-03-31

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2BAOP-K10

Product Name:	MID
Trademark:	N/A
Model/Type Ref.:	K10
Prepared For:	Shenzhen Xunjia Electronic Commerce Co., LTD
Address:	7C, Building 16, Meilin Yi Village, No. 140 Meilin Road, Meilin Yicun Community, Meilin Street, Futian District, Shenzhen, China
Manufacturer:	Dongguan Consung Smart Technology Co.,Ltd
Address:	Building 11/14, No.400, JieNan Road, HuMen Town, DongGuan City, GuangDong Province, 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:	2023-03-20
Sample tested Date:	2023-03-20 to 2023-03-31
Issue Date:	2023-03-31
Report No.:	BCTC2303093286-3E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is WIFI-2.4GHz band radio test report.

Tested by:

Lei Chen

Lei Chen/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.

Table Of Content

Test Report Declaration Page
1. Version 5
2. Test Summary 6
3. Measurement Uncertainty 7
4. Product Information And Test Setup 8
4.1 Product Information 8
4.2 Test Setup Configuration 8
4.3 Support Equipment 9
4.4 Channel List 9
4.5 Test Mode 9
4.6 Table Of Parameters Of Text Software Setting 10
5. Test Facility And Test Instrument Used 11
5.1 Test Facility 11
5.2 Test Instrument Used 11
6. Conducted Emissions 13
6.1 Block Diagram Of Test Setup 13
6.2 Limit 13
6.3 Test Procedure 13
6.4 EUT Operating Conditions 13
6.5 Test Result 14
7. Radiated Emissions 16
7.1 Block Diagram Of Test Setup 16
7.2 Limit 17
7.3 Test Procedure 18
7.4 EUT Operating Conditions 19
7.5 Test Result 19
8. Radiated Band Emission Measurement And Restricted Bands Of Operation 25
8.1 Block Diagram Of Test Setup 25
8.2 Limit 25
8.3 Test Procedure 26
8.4 EUT operating Conditions 26
8.5 Test Result 27
9. Power Spectral Density Test 29
9.1 Block Diagram Of Test Setup 29
9.2 Limit 29
9.3 Test Procedure 29
9.4 EUT Operating Conditions 29
9.5 Test Result 30
10. Bandwidth Test 36
10.1 Block Diagram Of Test Setup 36
10.2 Limit 36
10.3 Test Procedure 36
10.4 EUT Operating Conditions 36

10.5 Test Result 37
11. Peak Output Power Test 43
11.1 Block Diagram Of Test Setup 43
11.2 Limit 43
11.3 Test Procedure 43
11.4 EUT Operating Conditions 43
11.5 Test Result 44
12. 100 KHz Bandwidth Of Frequency Band Edge 45
12.1 Block Diagram Of Test Setup 45
12.2 Limit 45
12.3 Test Procedure 45
12.4 EUT Operating Conditions 45
12.5 Test Result 46
13. Duty Cycle Of Test Signal 61
13.1 Standard Requirement 61
13.2 Formula 61
13.3 Test Procedure 61
13.4 Test Result 61
14. Antenna Requirement 67
14.1 Limit 67
14.2 Test Result 67
15. EUT Photographs 68
16. EUT Test Setup Photographs 69

(Note: N/A means not applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2303093286-3E	2023-03-31	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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
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

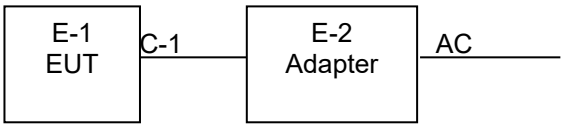
4.1 Product Information

Model/Type Ref.:	K10
Model differences:	N/A
Operation Frequency:	802.11b/g/n20MHz:2412~2462 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:	OFDM/DSSS
Number Of Channel	802.11b/g/n20MHz:11 CH
Antenna installation:	FPC antenna
Antenna Gain:	2.1dBi
Ratings:	DC 5V from USB, DC 3.85V from Battery

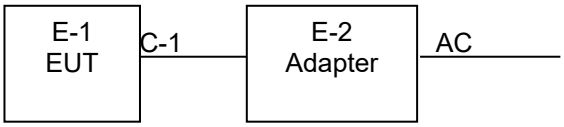
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	MID	N/A	K10	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	0.5M	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		

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.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	Link Mode

Radiated Emission	
Final Test Mode	Description
Mode 4	Link Mode

Note:
(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

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	WIFI_Eut		
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
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

5.2 Test Instrument Used

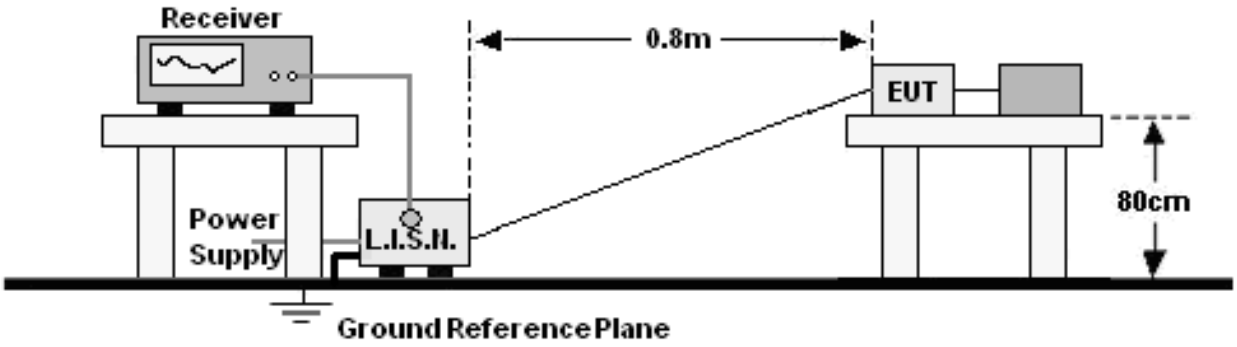
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

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 Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 2023
Radio frequency control box	MAIWEI	MW100-RFCB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
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	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 24, 2022	May 23, 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

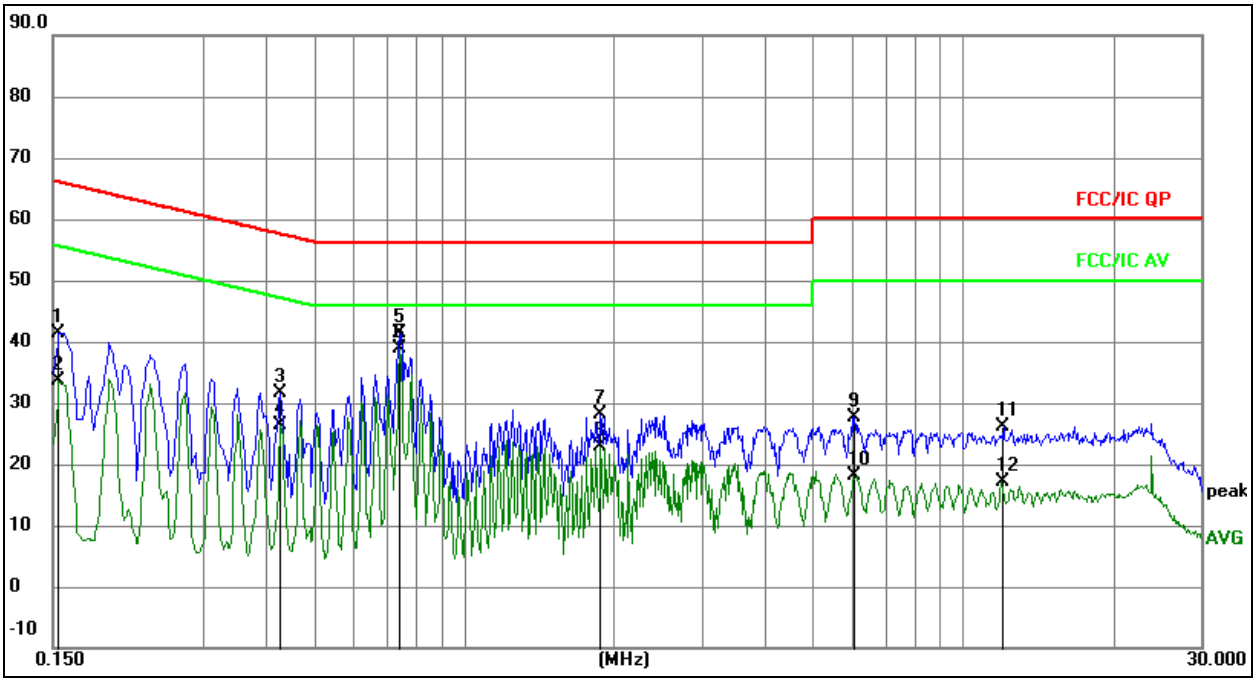
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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

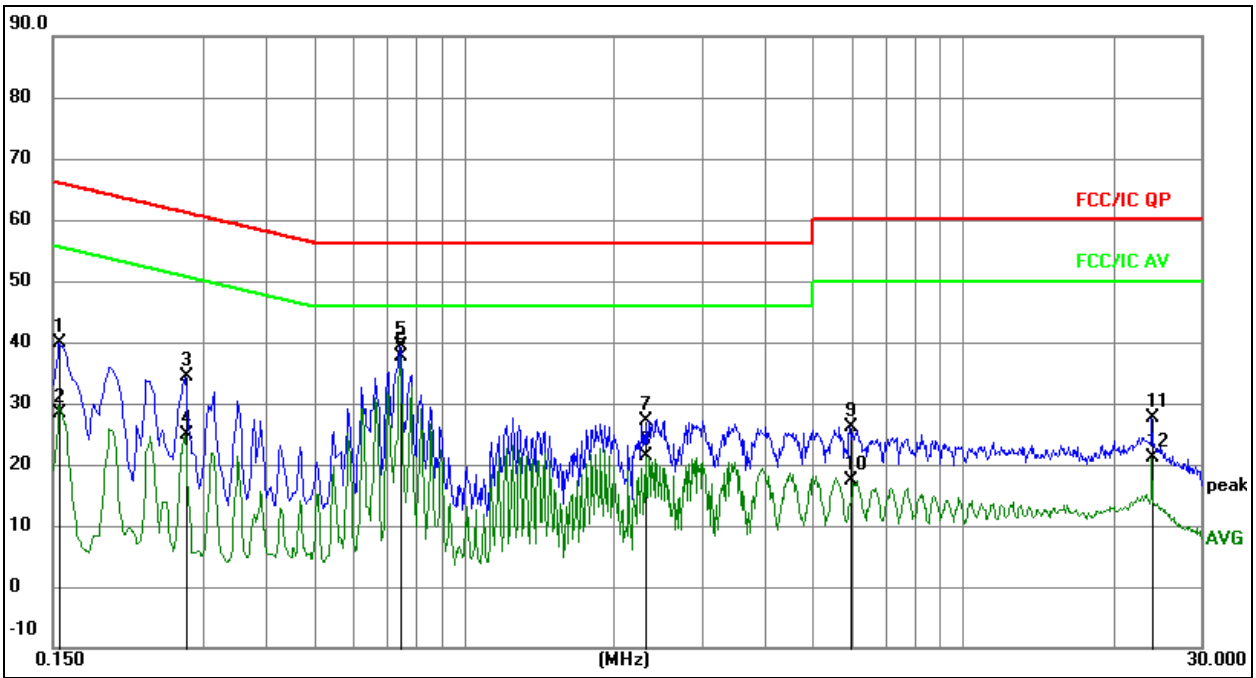
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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		0.1539	21.81	19.68	41.49	65.79	-24.30	QP
2		0.1539	13.83	19.68	33.51	55.79	-22.28	AVG
3		0.4282	11.97	19.74	31.71	57.29	-25.58	QP
4		0.4282	6.54	19.74	26.28	47.29	-21.01	AVG
5		0.7430	21.60	19.74	41.34	56.00	-14.66	QP
6	*	0.7430	19.03	19.74	38.77	46.00	-7.23	AVG
7		1.8779	8.20	19.87	28.07	56.00	-27.93	QP
8		1.8779	2.97	19.87	22.84	46.00	-23.16	AVG
9		6.0562	7.42	20.15	27.57	60.00	-32.43	QP
10		6.0562	-1.97	20.15	18.18	50.00	-31.82	AVG
11		11.9328	5.84	20.28	26.12	60.00	-33.88	QP
12		11.9328	-3.22	20.28	17.06	50.00	-32.94	AVG

Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Phase：	N
Test Mode:	Mode 4	Test Voltage：	AC120V/60Hz



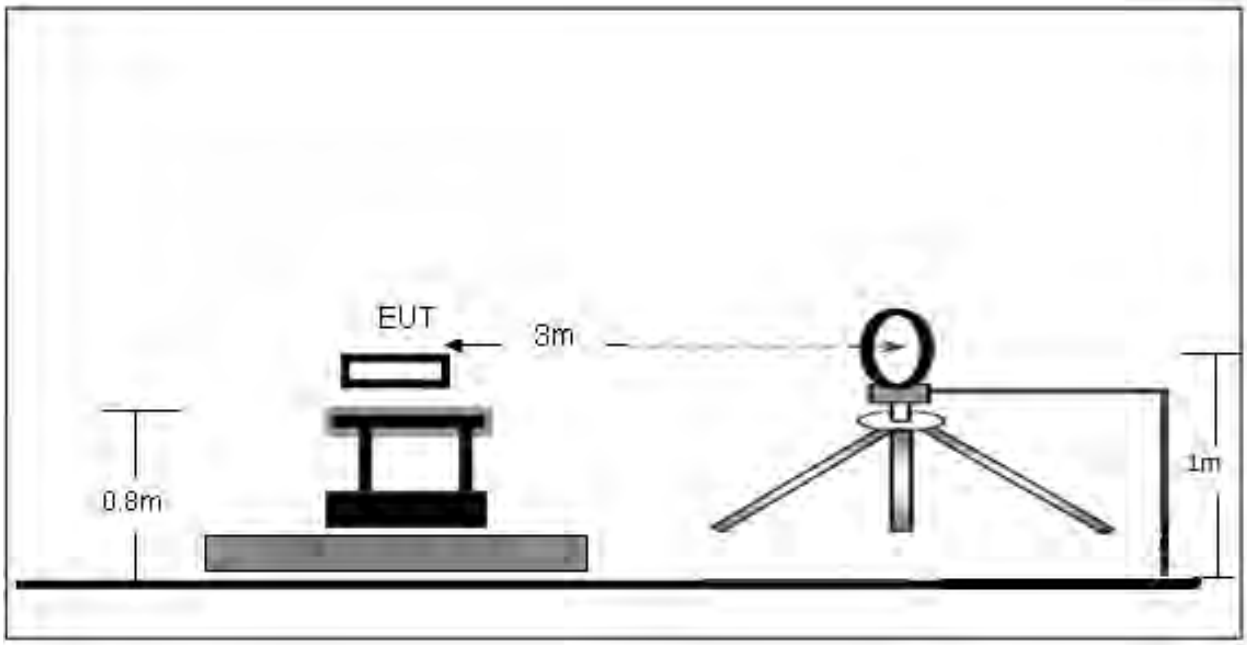
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1545	20.22	19.68	39.90	65.75	-25.85	QP
2		0.1545	8.68	19.68	28.36	55.75	-27.39	AVG
3		0.2760	14.62	19.78	34.40	60.94	-26.54	QP
4		0.2760	5.05	19.78	24.83	50.94	-26.11	AVG
5		0.7440	19.54	19.74	39.28	56.00	-16.72	QP
6	*	0.7440	17.79	19.74	37.53	46.00	-8.47	AVG
7		2.3145	7.16	19.91	27.07	56.00	-28.93	QP
8		2.3145	1.38	19.91	21.29	46.00	-24.71	AVG
9		5.9325	5.96	20.15	26.11	60.00	-33.89	QP
10		5.9325	-2.82	20.15	17.33	50.00	-32.67	AVG
11		23.9055	7.19	20.52	27.71	60.00	-32.29	QP
12		23.9055	0.49	20.52	21.01	50.00	-28.99	AVG

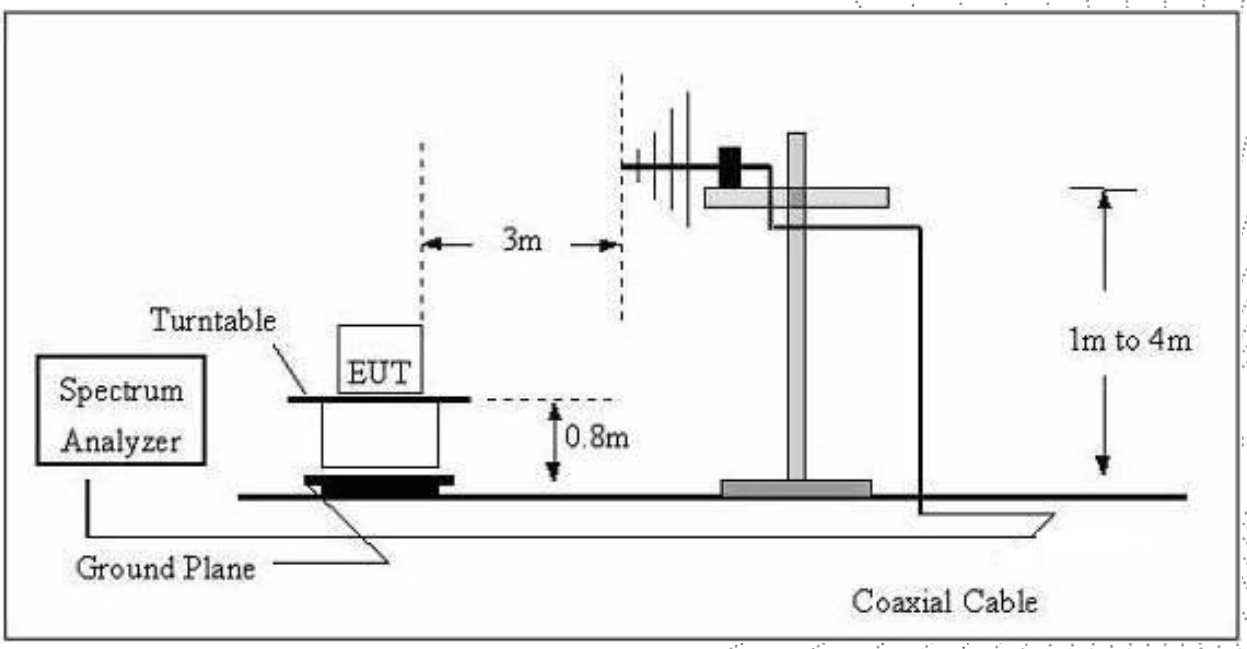
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

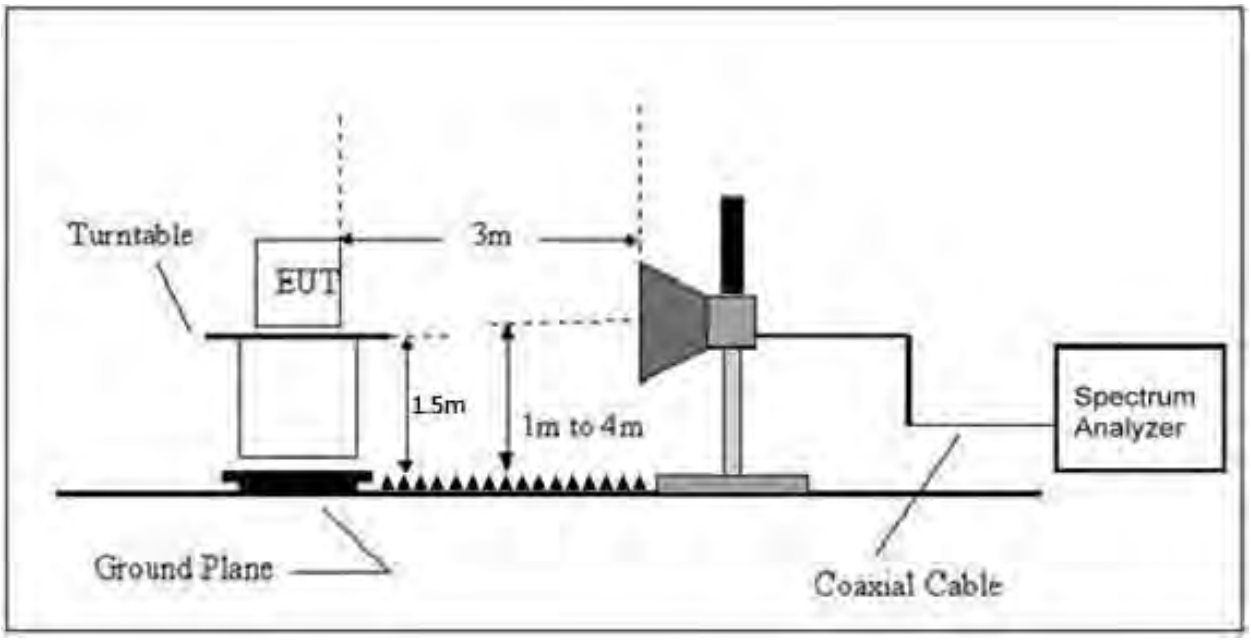
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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 (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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 chamber. 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:
g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
h. Test the EUT in the lowest channel ,the middle 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.

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 chamber. 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.

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

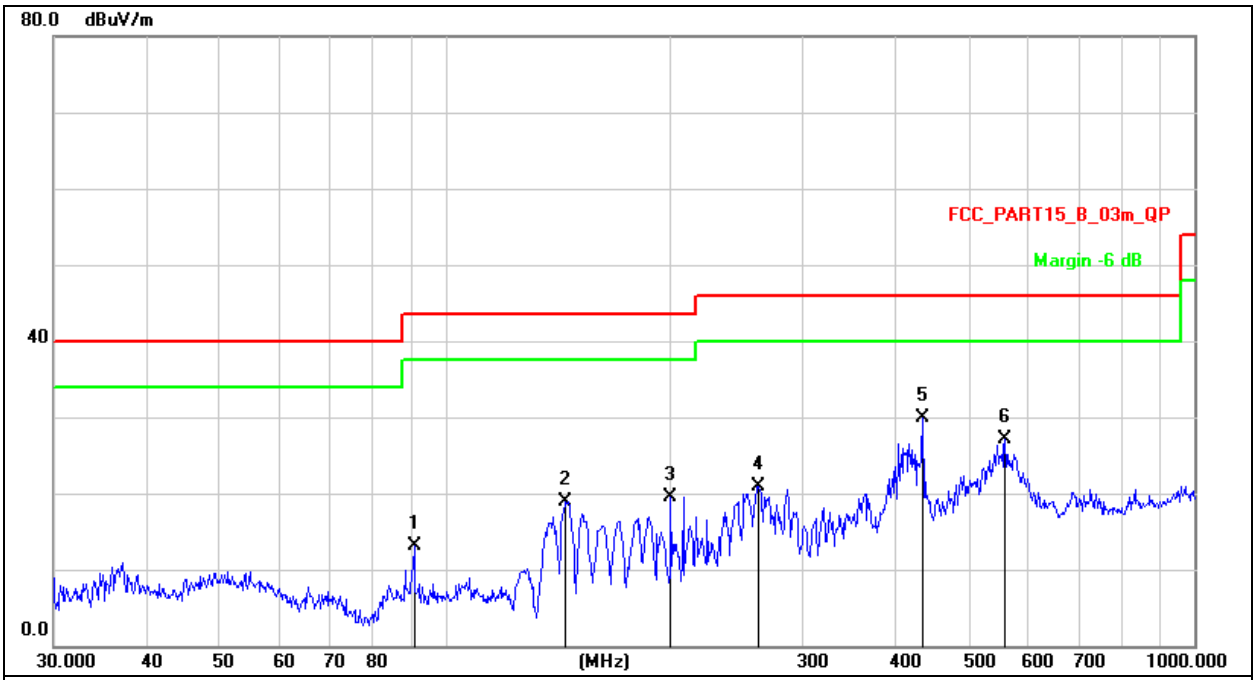
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

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

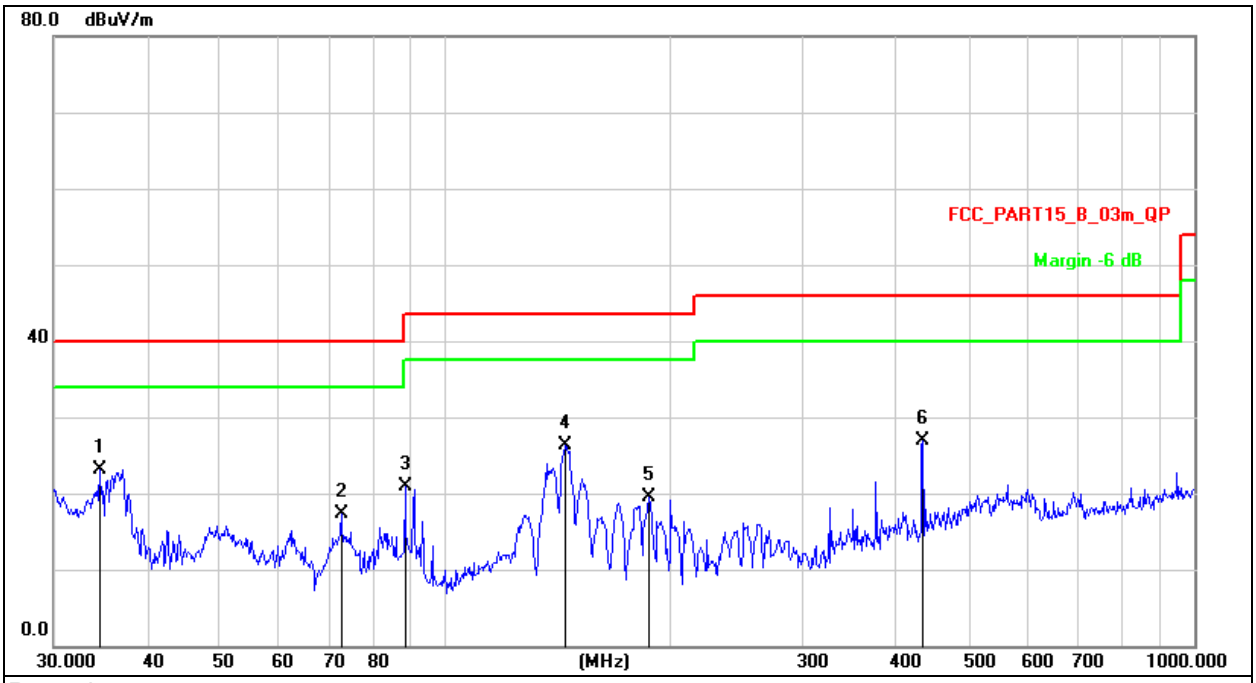
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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		90.8554	32.14	-19.10	13.04	43.50	-30.46	QP
2		144.8418	39.69	-20.71	18.98	43.50	-24.52	QP
3		199.9856	36.84	-17.37	19.47	43.50	-24.03	QP
4		261.9753	36.48	-15.53	20.95	46.00	-25.05	QP
5	*	434.0651	41.69	-11.72	29.97	46.00	-16.03	QP
6		558.7302	36.43	-9.32	27.11	46.00	-18.89	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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	*	34.5173	40.81	-17.63	23.18	40.00	-16.82	QP
2		72.5916	37.58	-20.37	17.21	40.00	-22.79	QP
3		88.3421	40.54	-19.62	20.92	43.50	-22.58	QP
4		144.8418	47.02	-20.71	26.31	43.50	-17.19	QP
5		187.0958	37.73	-18.32	19.41	43.50	-24.09	QP
6		434.0651	38.71	-11.72	26.99	46.00	-19.01	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	53.51	-0.43	53.08	74.00	-20.92	PK
V	4824.00	43.04	-0.43	42.61	54.00	-11.39	AV
V	7236.00	44.95	8.31	53.26	74.00	-20.74	PK
V	7236.00	34.30	8.31	42.61	54.00	-11.39	AV
H	4824.00	50.63	-0.43	50.20	74.00	-23.80	PK
H	4824.00	41.54	-0.43	41.11	54.00	-12.89	AV
H	7236.00	43.55	8.31	51.86	74.00	-22.14	PK
H	7236.00	36.28	8.31	44.59	54.00	-9.41	AV
Middle channel:2437MHz							
V	4874.00	50.21	-0.38	49.83	74.00	-24.17	PK
V	4874.00	42.25	-0.38	41.87	54.00	-12.13	AV
V	7311.00	39.53	8.83	48.36	74.00	-25.64	PK
V	7311.00	31.43	8.83	40.26	54.00	-13.74	AV
H	4874.00	49.10	-0.38	48.72	74.00	-25.28	PK
H	4874.00	39.56	-0.38	39.18	54.00	-14.82	AV
H	7311.00	37.17	8.83	46.00	74.00	-28.00	PK
H	7311.00	29.85	8.83	38.68	54.00	-15.32	AV
High channel:2462MHz							
V	4924.00	51.75	-0.32	51.43	74.00	-22.57	PK
V	4924.00	43.52	-0.32	43.20	54.00	-10.80	AV
V	7386.00	45.68	9.35	55.03	74.00	-18.97	PK
V	7386.00	35.84	9.35	45.19	54.00	-8.81	AV
H	4924.00	48.93	-0.32	48.61	74.00	-25.39	PK
H	4924.00	38.97	-0.32	38.65	54.00	-15.35	AV
H	7386.00	43.22	9.35	52.57	74.00	-21.43	PK
H	7386.00	35.05	9.35	44.40	54.00	-9.60	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	52.86	-0.43	52.43	74.00	-21.57	PK
V	4824.00	42.54	-0.43	42.11	54.00	-11.89	AV
V	7236.00	43.06	8.31	51.37	74.00	-22.63	PK
V	7236.00	32.81	8.31	41.12	54.00	-12.88	AV
H	4824.00	49.38	-0.43	48.95	74.00	-25.05	PK
H	4824.00	39.85	-0.43	39.42	54.00	-14.58	AV
H	7236.00	40.07	8.31	48.38	74.00	-25.62	PK
H	7236.00	32.03	8.31	40.34	54.00	-13.66	AV
Middle channel:2437MHz							
V	4874.00	50.04	-0.38	49.66	74.00	-24.34	PK
V	4874.00	43.00	-0.38	42.62	54.00	-11.38	AV
V	7311.00	42.09	8.83	50.92	74.00	-23.08	PK
V	7311.00	32.14	8.83	40.97	54.00	-13.03	AV
H	4874.00	45.51	-0.38	45.13	74.00	-28.87	PK
H	4874.00	35.12	-0.38	34.74	54.00	-19.26	AV
H	7311.00	39.27	8.83	48.10	74.00	-25.90	PK
H	7311.00	31.52	8.83	40.35	54.00	-13.65	AV
High channel:2462MHz							
V	4924.00	52.96	-0.32	52.64	74.00	-21.36	PK
V	4924.00	42.67	-0.32	42.35	54.00	-11.65	AV
V	7386.00	44.23	9.35	53.58	74.00	-20.42	PK
V	7386.00	33.92	9.35	43.27	54.00	-10.73	AV
H	4924.00	51.35	-0.32	51.03	74.00	-22.97	PK
H	4924.00	40.74	-0.32	40.42	54.00	-13.58	AV
H	7386.00	42.58	9.35	51.93	74.00	-22.07	PK
H	7386.00	34.01	9.35	43.36	54.00	-10.64	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

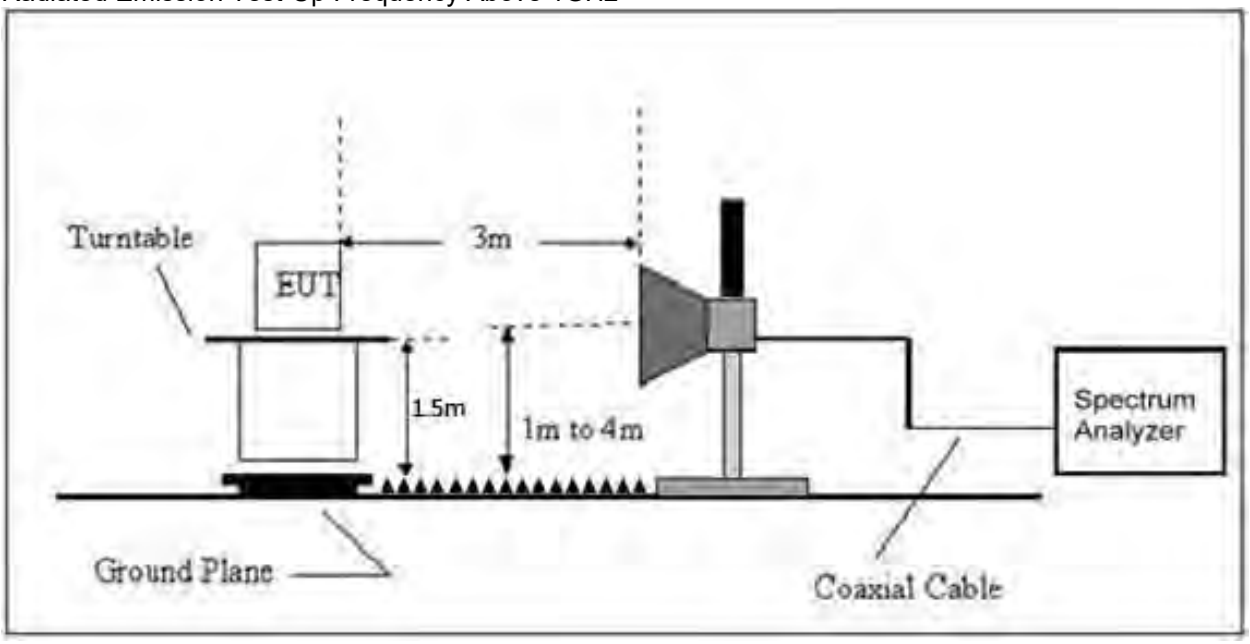
Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	52.09	-0.43	51.66	74.00	-22.34	PK
V	4824.00	41.96	-0.43	41.53	54.00	-12.47	AV
V	7236.00	42.08	8.31	50.39	74.00	-23.61	PK
V	7236.00	32.58	8.31	40.89	54.00	-13.11	AV
H	4824.00	50.09	-0.43	49.66	74.00	-24.34	PK
H	4824.00	40.67	-0.43	40.24	54.00	-13.76	AV
H	7236.00	39.51	8.31	47.82	74.00	-26.18	PK
H	7236.00	31.64	8.31	39.95	54.00	-14.05	AV
Middle channel:2437MHz							
V	4874.00	50.99	-0.38	50.61	74.00	-23.39	PK
V	4874.00	43.68	-0.38	43.30	54.00	-10.70	AV
V	7311.00	43.77	8.83	52.60	74.00	-21.40	PK
V	7311.00	34.15	8.83	42.98	54.00	-11.02	AV
H	4874.00	46.84	-0.38	46.46	74.00	-27.54	PK
H	4874.00	37.48	-0.38	37.10	54.00	-16.90	AV
H	7311.00	41.40	8.83	50.23	74.00	-23.77	PK
H	7311.00	33.64	8.83	42.47	54.00	-11.53	AV
High channel:2462MHz							
V	4924.00	53.90	-0.32	53.58	74.00	-20.42	PK
V	4924.00	44.07	-0.32	43.75	54.00	-10.25	AV
V	7386.00	45.19	9.35	54.54	74.00	-19.46	PK
V	7386.00	35.35	9.35	44.70	54.00	-9.30	AV
H	4924.00	52.86	-0.32	52.54	74.00	-21.46	PK
H	4924.00	43.30	-0.32	42.98	54.00	-11.02	AV
H	7386.00	42.74	9.35	52.09	74.00	-21.91	PK
H	7386.00	34.94	9.35	44.29	54.00	-9.71	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 chamber. 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

	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	54.68	-6.70	47.98	74.00	54.00	PASS
	H	2400.00	58.05	-6.71	51.34	74.00	54.00	PASS
	V	2390.00	54.03	-6.70	47.33	74.00	54.00	PASS
	V	2400.00	58.93	-6.71	52.22	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	58.13	-6.79	51.34	74.00	54.00	PASS
	H	2500.00	53.64	-6.81	46.83	74.00	54.00	PASS
	V	2483.50	57.25	-6.79	50.46	74.00	54.00	PASS
	V	2500.00	52.70	-6.81	45.89	74.00	54.00	PASS
802.11g	Low Channel 2412MHz							
	H	2390.00	53.19	-6.70	46.49	74.00	54.00	PASS
	H	2400.00	56.95	-6.71	50.24	74.00	54.00	PASS
	V	2390.00	52.21	-6.70	45.51	74.00	54.00	PASS
	V	2400.00	55.71	-6.71	49.00	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	55.98	-6.79	49.19	74.00	54.00	PASS
	H	2500.00	52.12	-6.81	45.31	74.00	54.00	PASS
	V	2483.50	55.37	-6.79	48.58	74.00	54.00	PASS
	V	2500.00	51.62	-6.81	44.81	74.00	54.00	PASS

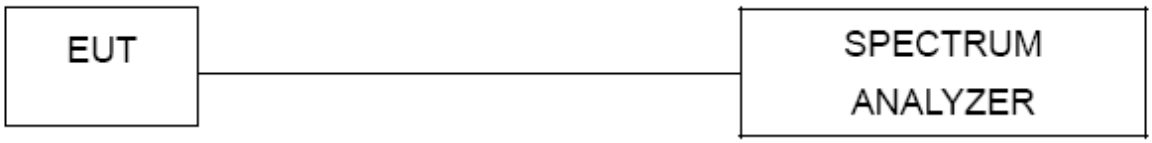
Remark:
1. Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level – Limit
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
3 In restricted bands of operation, The spurious 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.

	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)		Result
					PK	PK	AV	
802.11 n20	Low Channel 2412MHz							
	H	2390.00	53.75	-6.70	47.05	74.00	54.00	PASS
	H	2400.00	58.24	-6.71	51.53	74.00	54.00	PASS
	V	2390.00	53.53	-6.70	46.83	74.00	54.00	PASS
	V	2400.00	57.83	-6.71	51.12	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	56.75	-6.79	49.96	74.00	54.00	PASS
	H	2500.00	51.93	-6.81	45.12	74.00	54.00	PASS
	V	2483.50	56.16	-6.79	49.37	74.00	54.00	PASS
	V	2500.00	52.51	-6.81	45.70	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

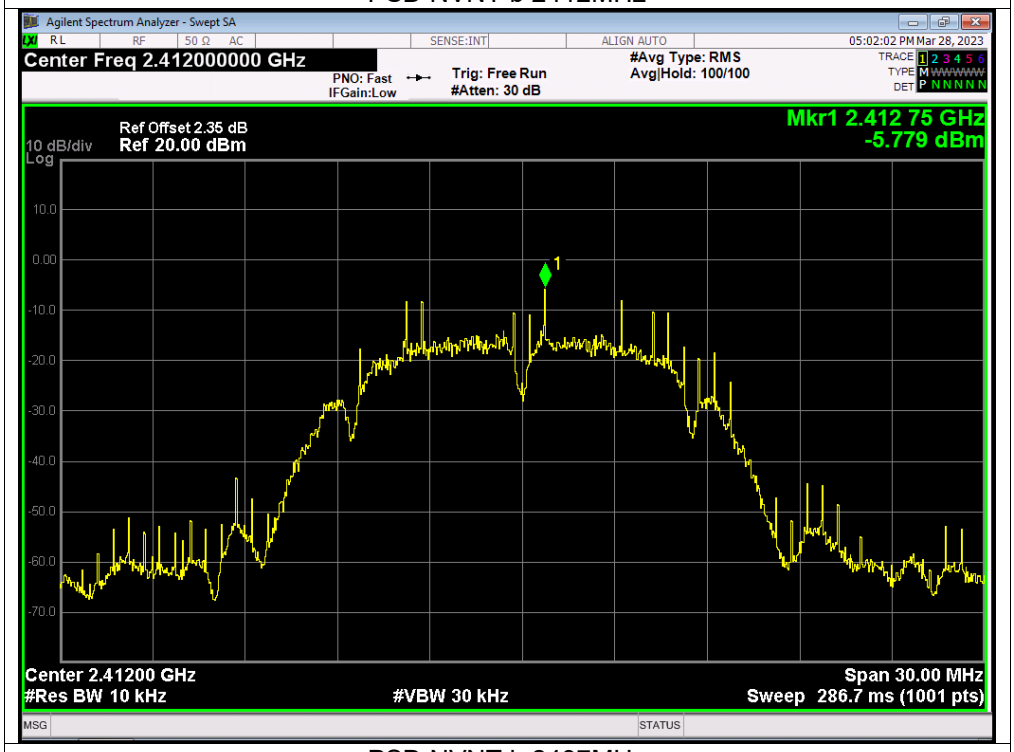
9.5 Test Result

Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 3.85V

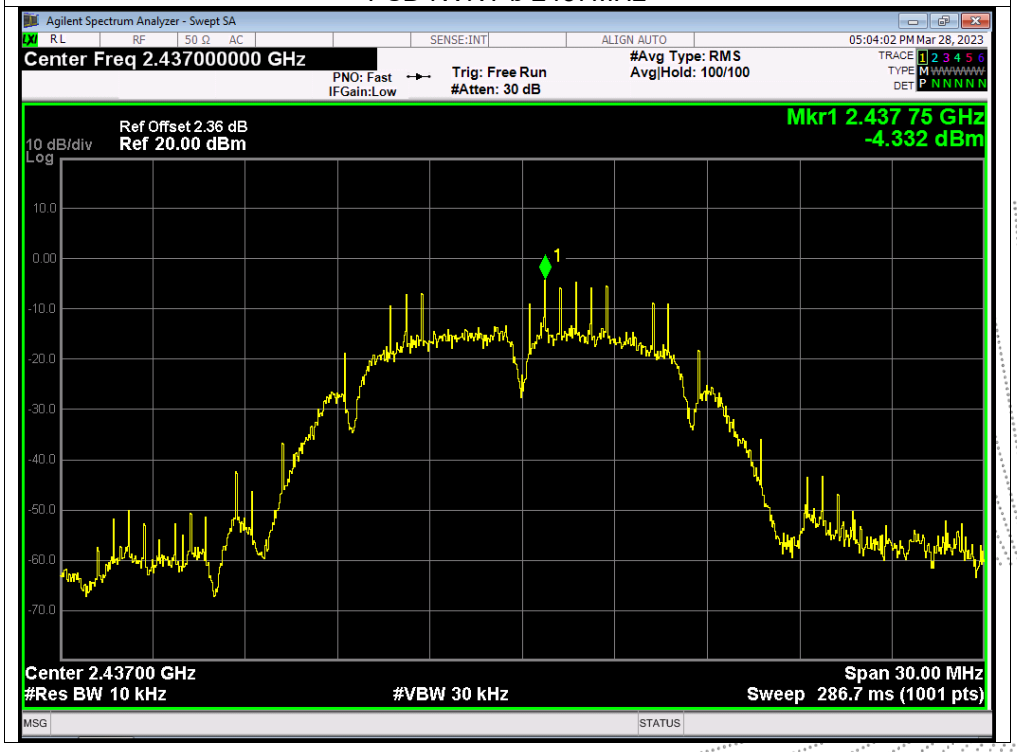
Test Mode	Frequency	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
TX b Mode	2412 MHz	-5.78	-11.01	8	PASS
	2437 MHz	-4.33	-9.56	8	PASS
	2462 MHz	-3.34	-8.57	8	PASS
TX g Mode	2412 MHz	-14.66	-19.89	8	PASS
	2437 MHz	-14.05	-19.28	8	PASS
	2462 MHz	-14.71	-19.94	8	PASS
TX n Mode(20M)	2412 MHz	-16.65	-21.88	8	PASS
	2437 MHz	-15.28	-20.51	8	PASS
	2462 MHz	-14.51	-19.74	8	PASS
Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23 Power Spectral Density (dBm/3kHz)= Power Spectral Density (dBm/10kHz)-5.23					

Test Graphs

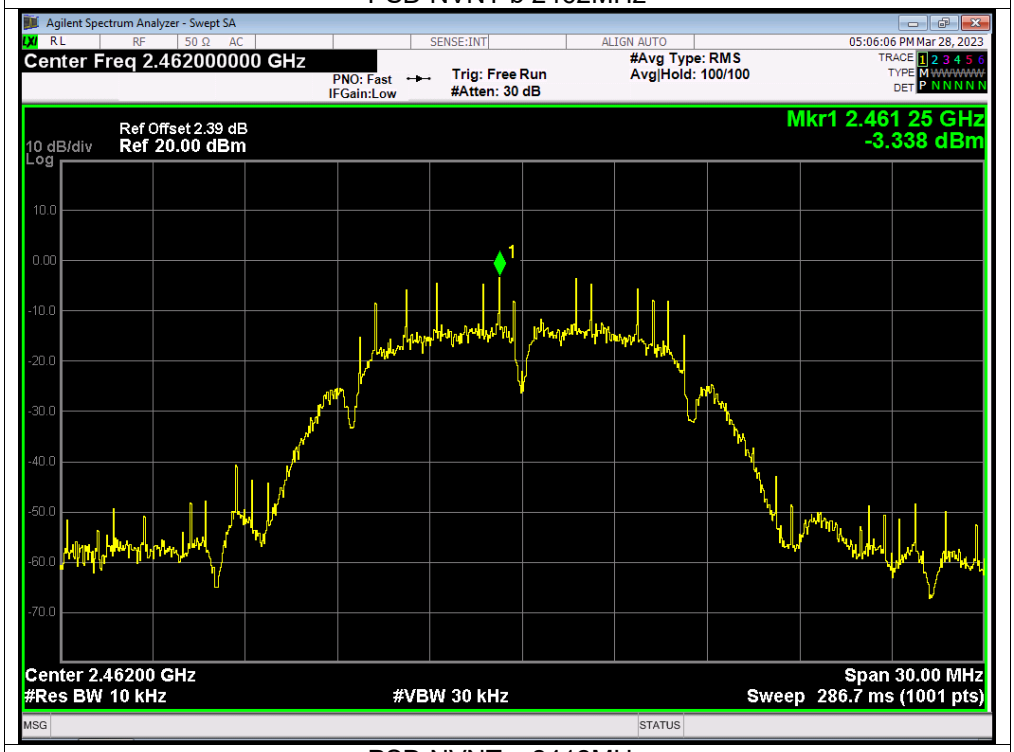
PSD NVNT b 2412MHz



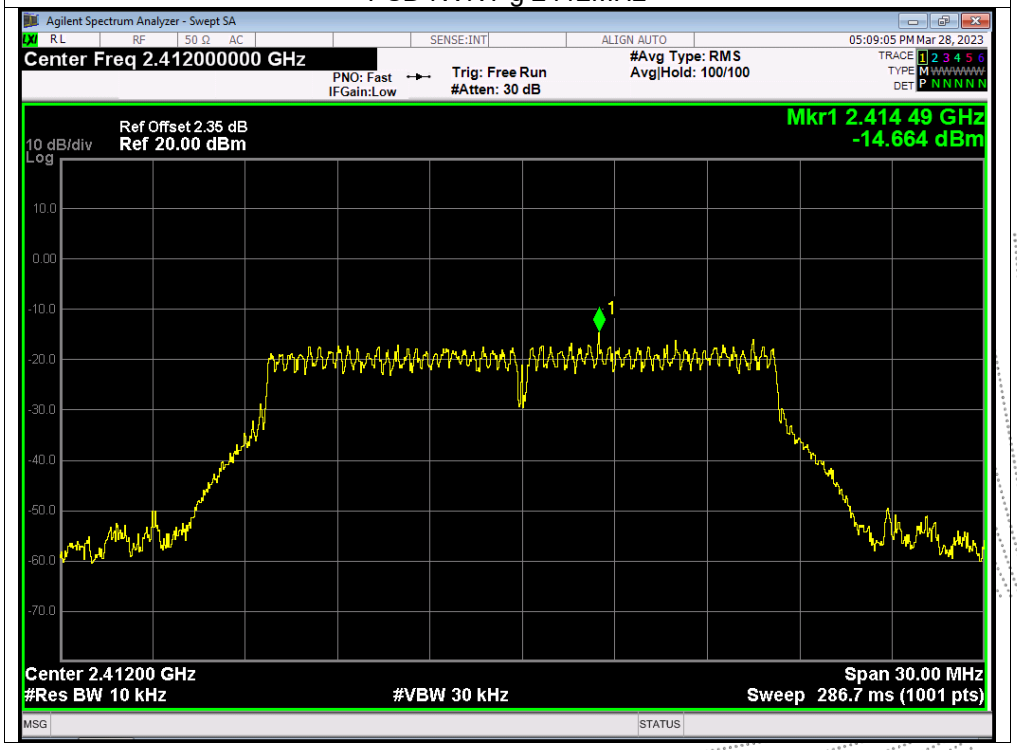
PSD NVNT b 2437MHz



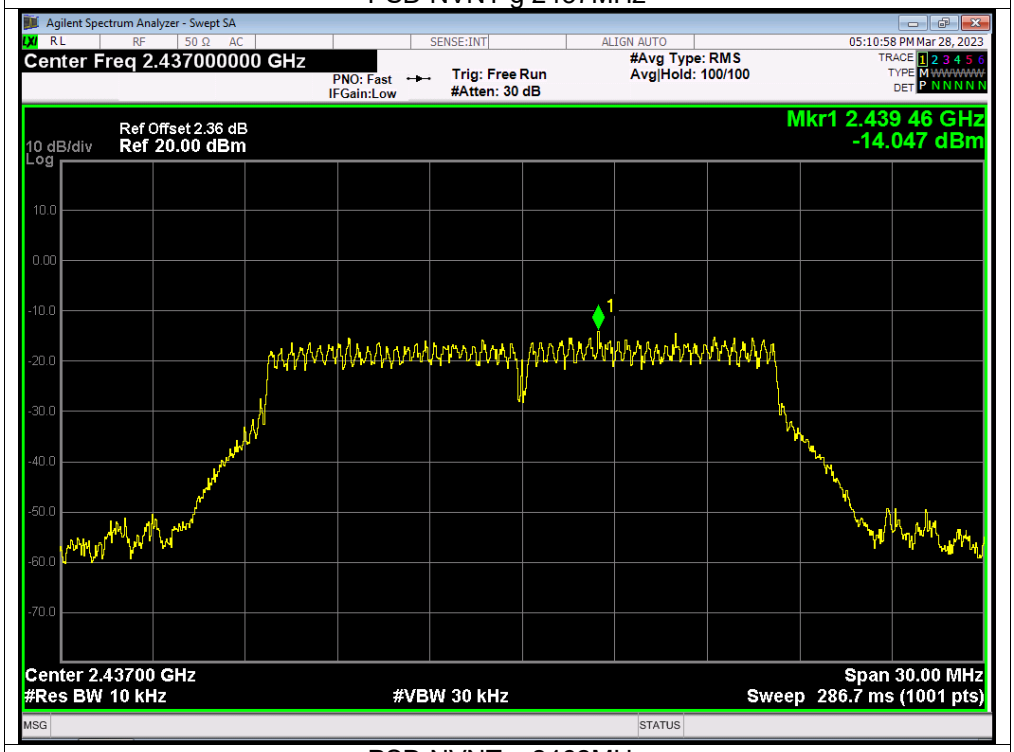
PSD NVNT b 2462MHz



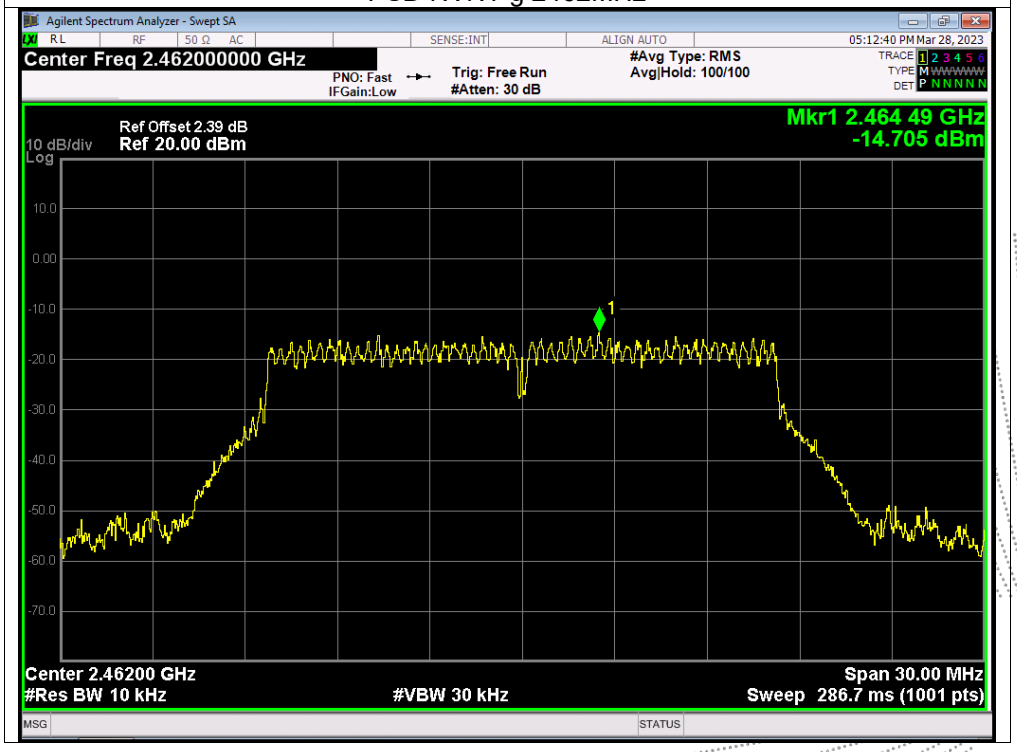
PSD NVNT g 2412MHz



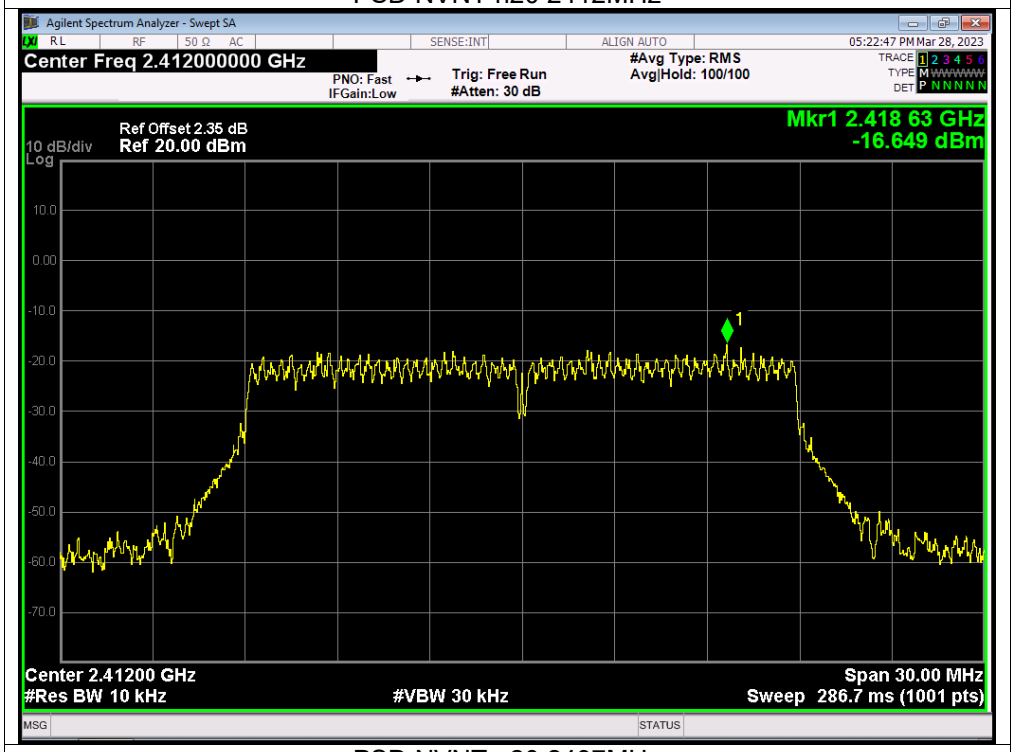
PSD NVNT g 2437MHz



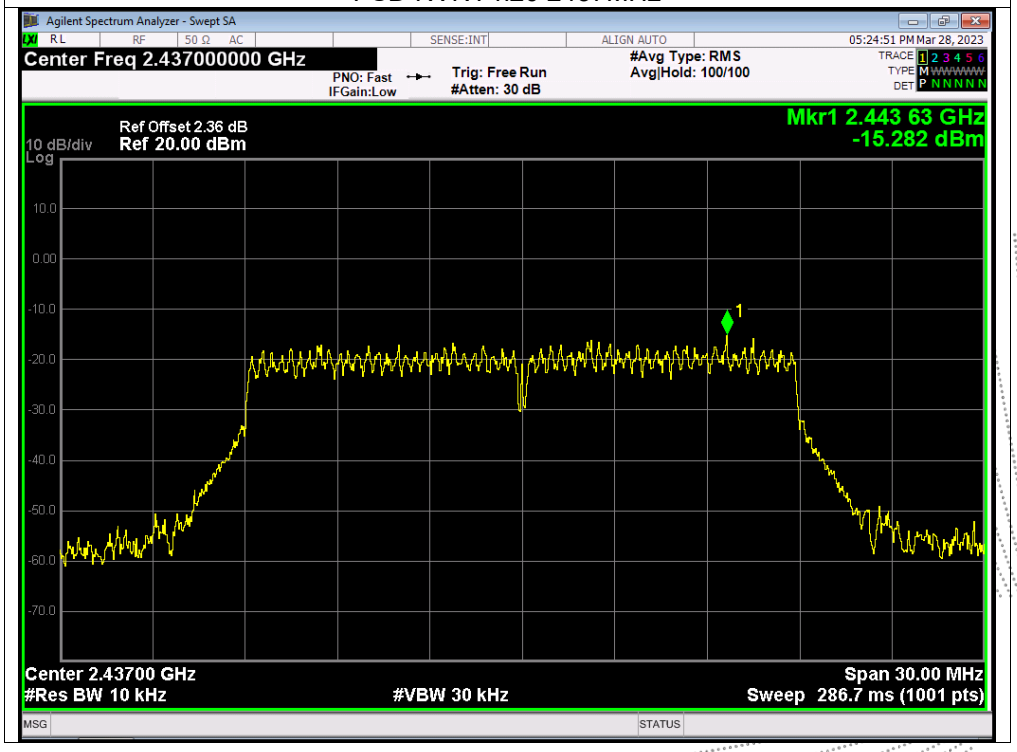
PSD NVNT g 2462MHz



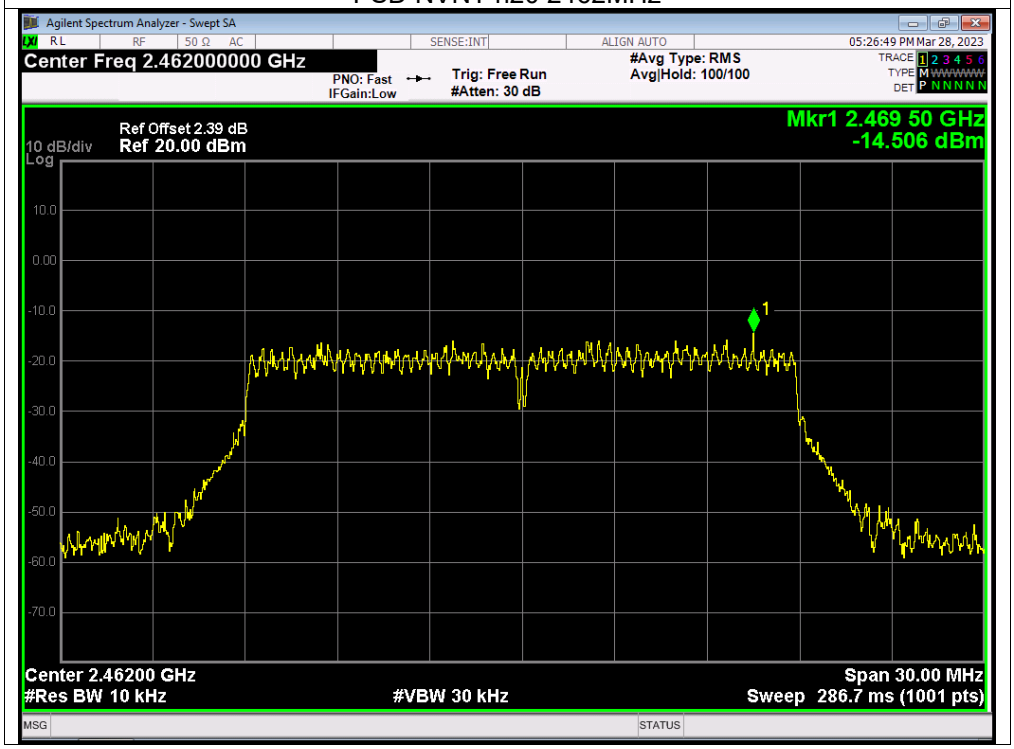
PSD NVNT n20 2412MHz



PSD NVNT n20 2437MHz



PSD NVNT n20 2462MHz



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

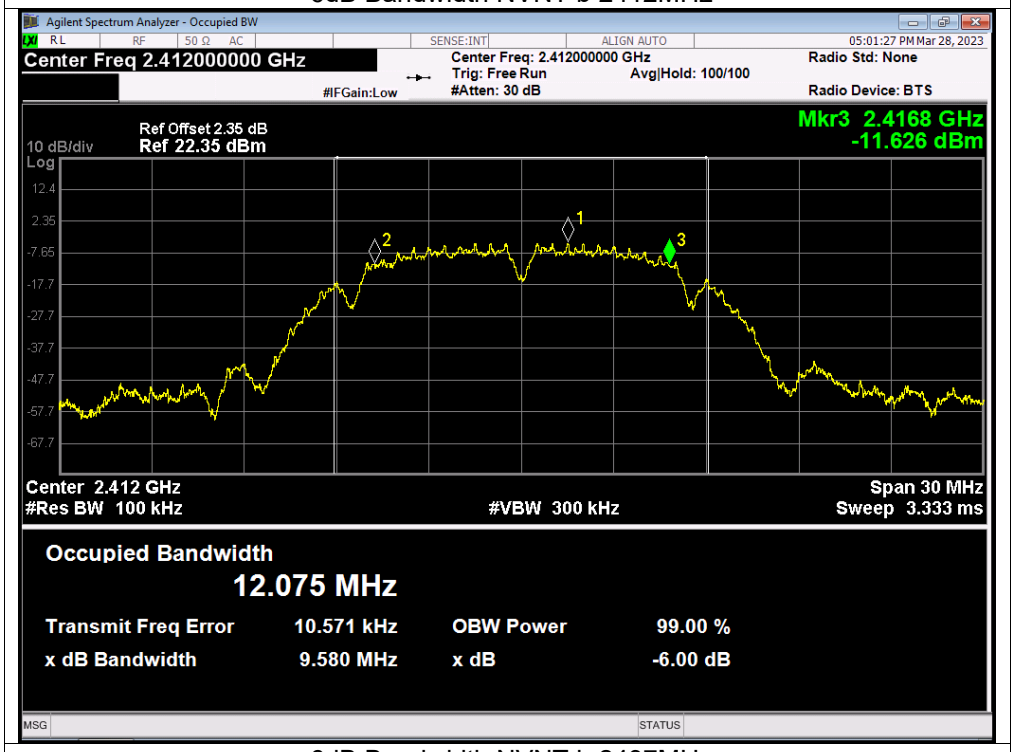
10.5 Test Result

Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 3.85V

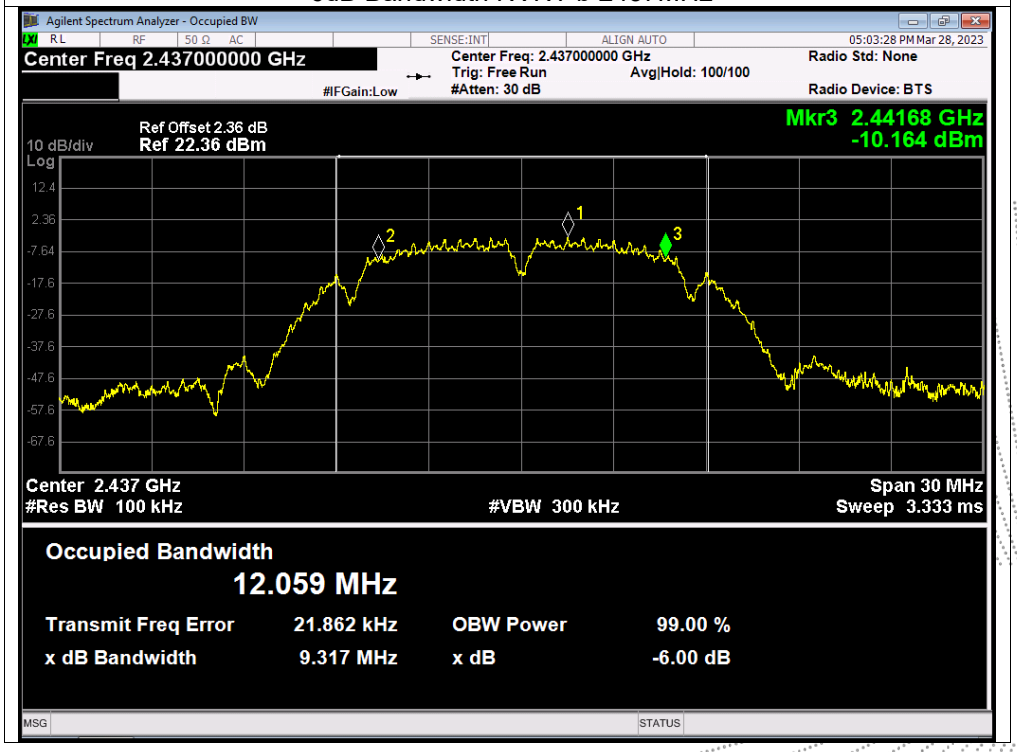
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	9.58	0.5	Pass
b	2437	9.317	0.5	Pass
b	2462	9.307	0.5	Pass
g	2412	16.386	0.5	Pass
g	2437	16.344	0.5	Pass
g	2462	16.367	0.5	Pass
n20	2412	17.554	0.5	Pass
n20	2437	17.585	0.5	Pass
n20	2462	17.559	0.5	Pass

Test Graphs

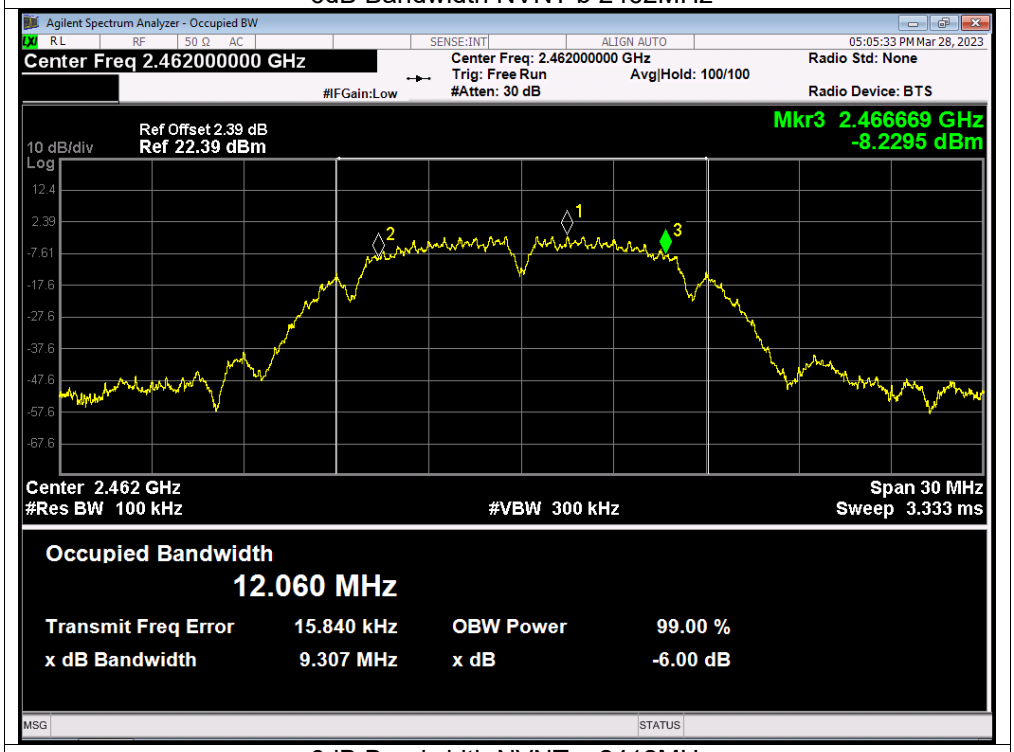
-6dB Bandwidth NVNT b 2412MHz



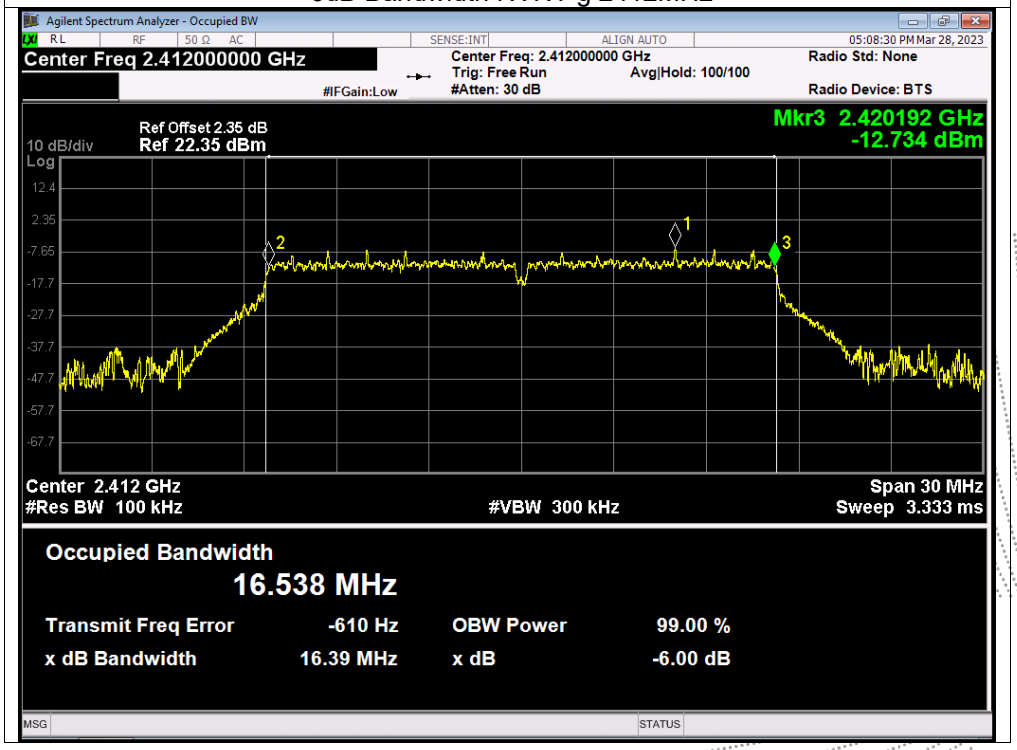
-6dB Bandwidth NVNT b 2437MHz



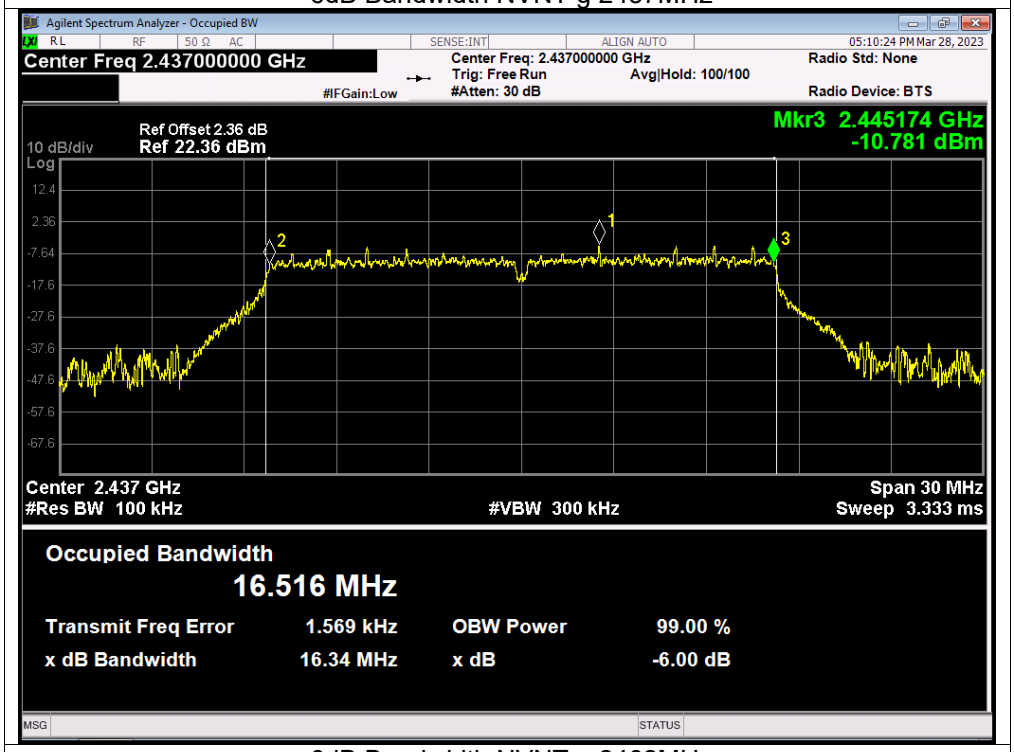
-6dB Bandwidth NVNT b 2462MHz



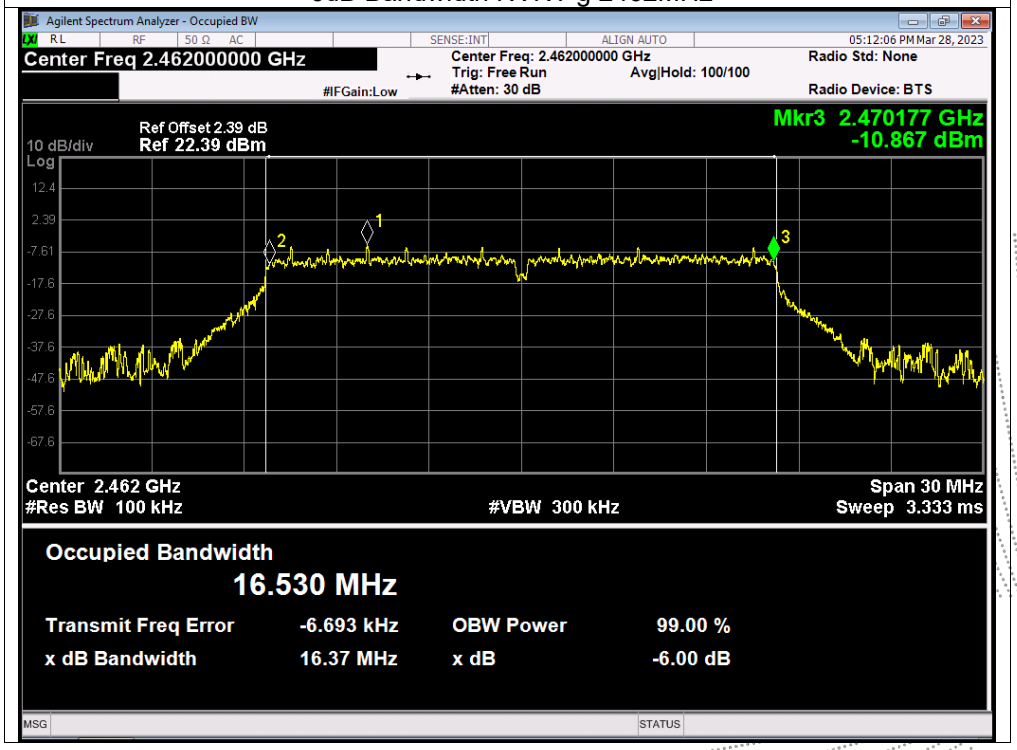
-6dB Bandwidth NVNT g 2412MHz



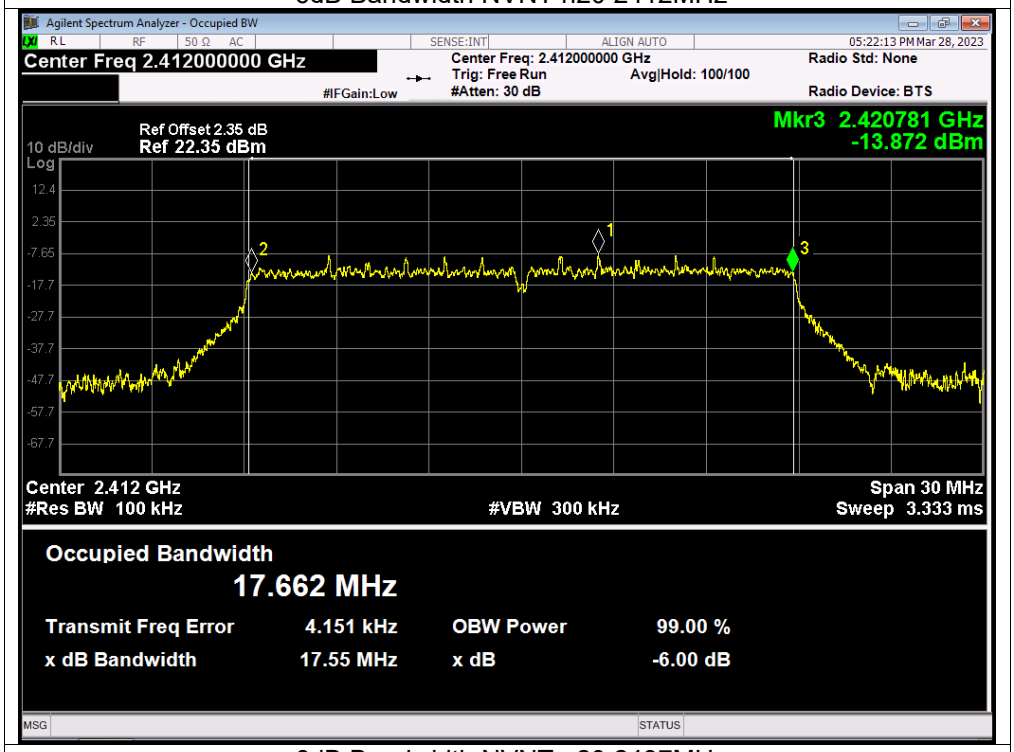
-6dB Bandwidth NVNT g 2437MHz



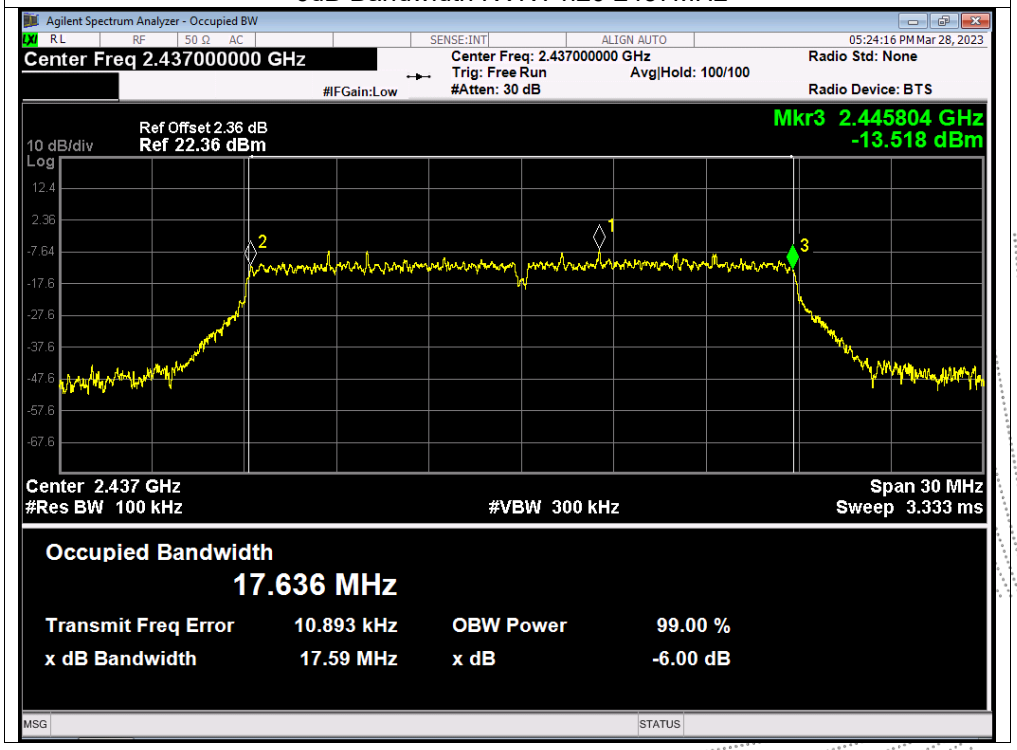
-6dB Bandwidth NVNT g 2462MHz



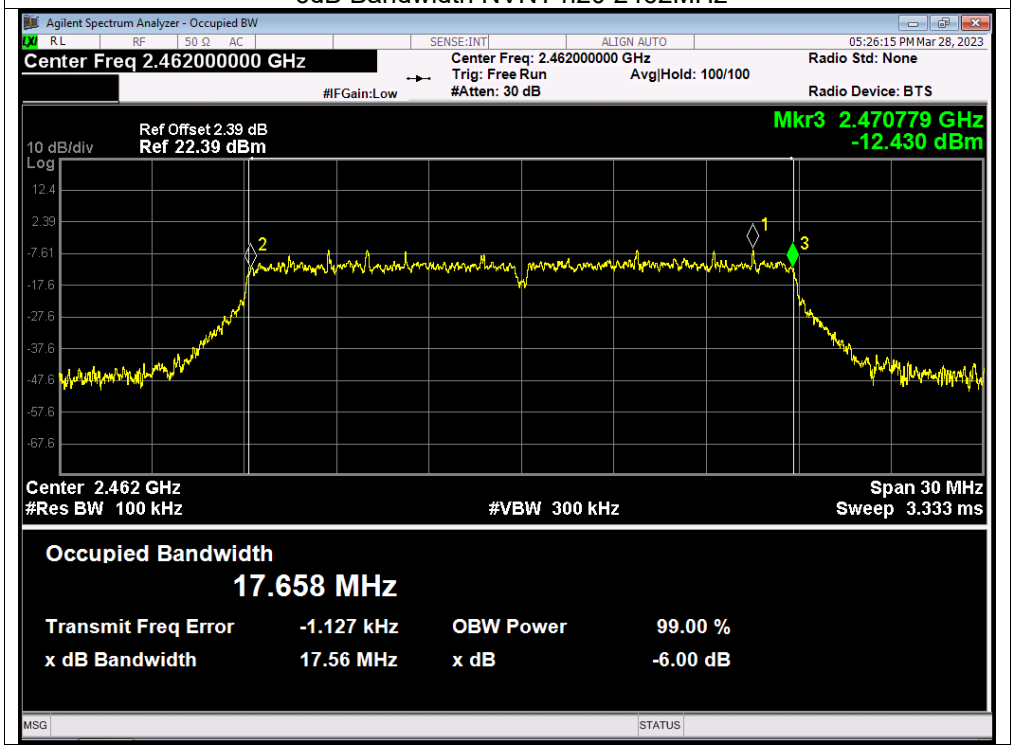
-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz

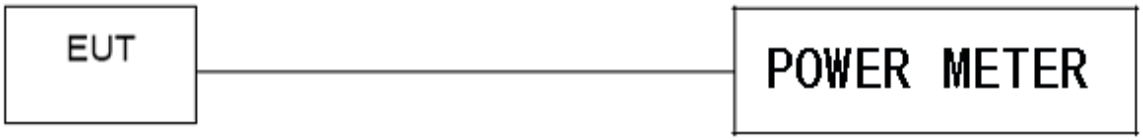


-6dB Bandwidth NVNT n20 2462MHz



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

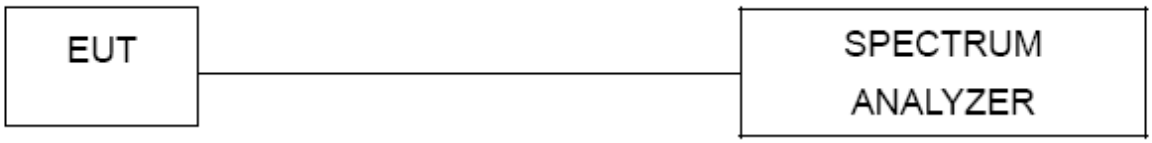
11.5 Test Result

Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 3.85V

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	5.32	30	Pass
b	2437	6.67	30	Pass
b	2462	7.81	30	Pass
g	2412	4.96	30	Pass
g	2437	6.03	30	Pass
g	2462	6.04	30	Pass
n20	2412	3.09	30	Pass
n20	2437	4.41	30	Pass
n20	2462	4.93	30	Pass

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

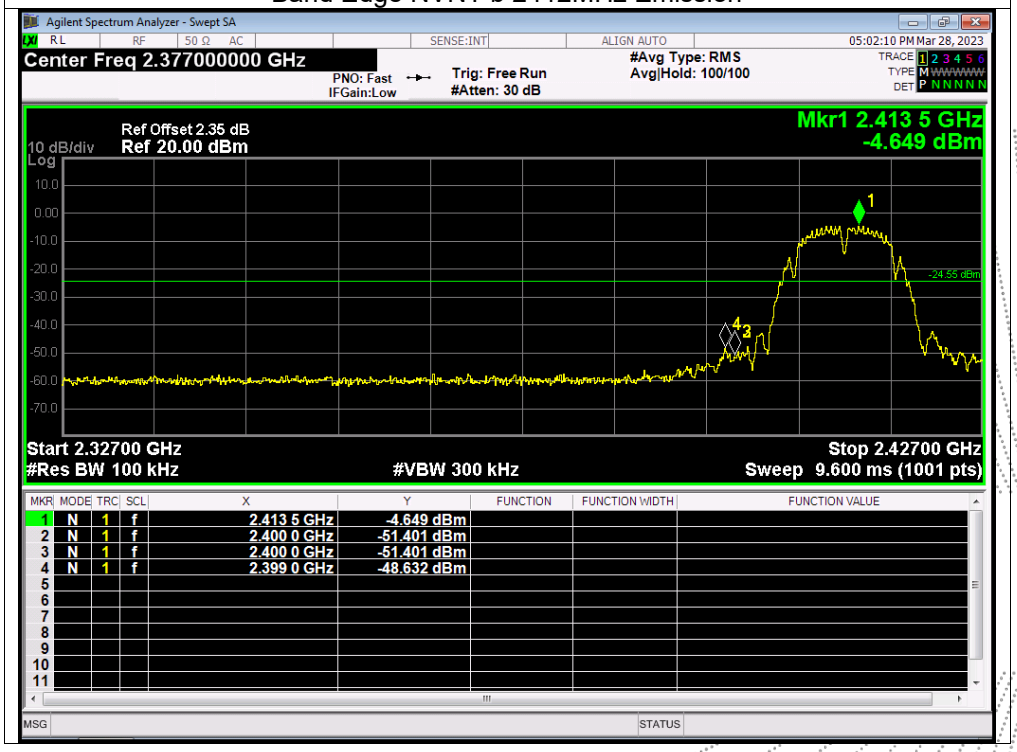
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.
Note: Power Spectral Density(dBm)=Reading+Cable Loss

12.5 Test Result

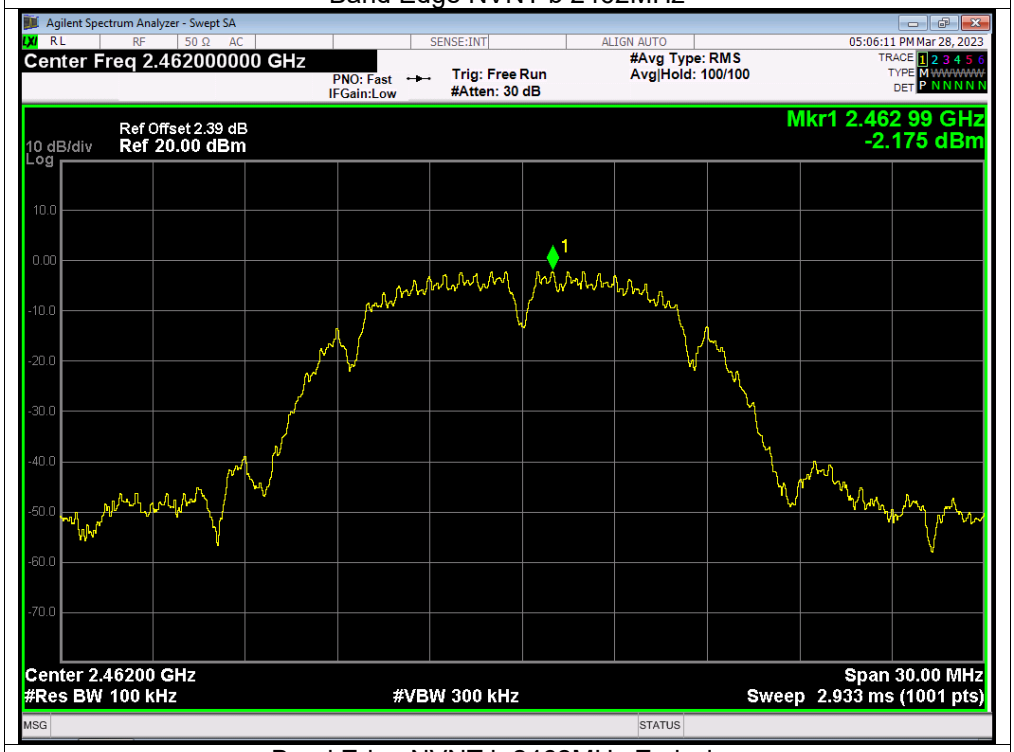
Test Graphs

Band Edge NVNT b 2412MHz

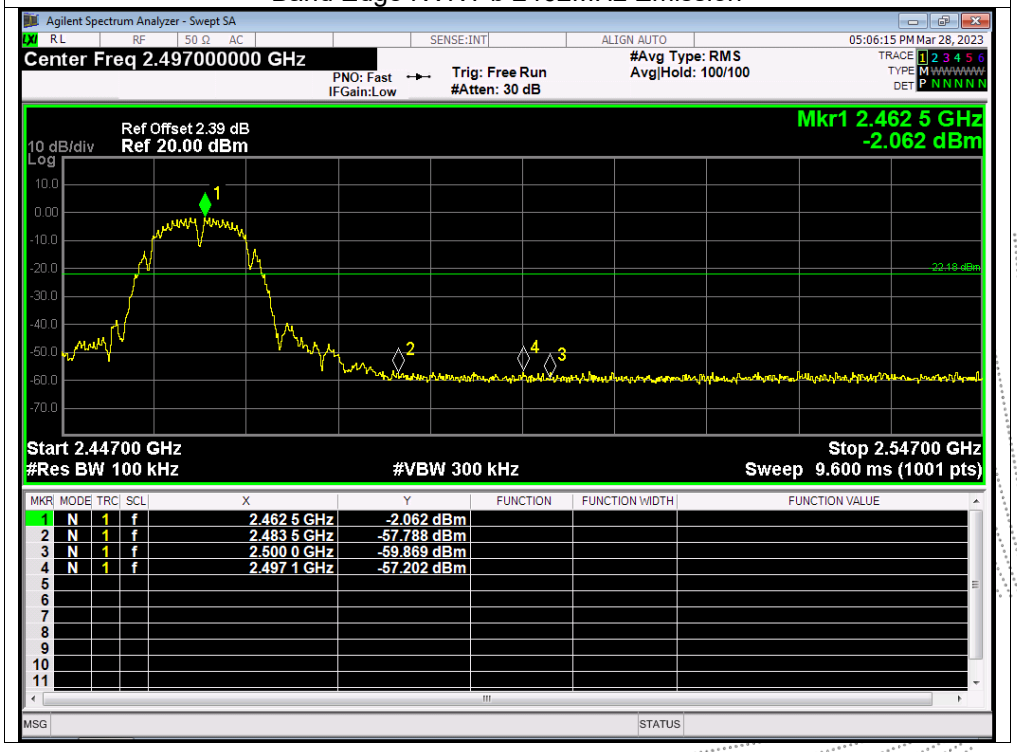
Band Edge NVNT b 2412MHz Emission



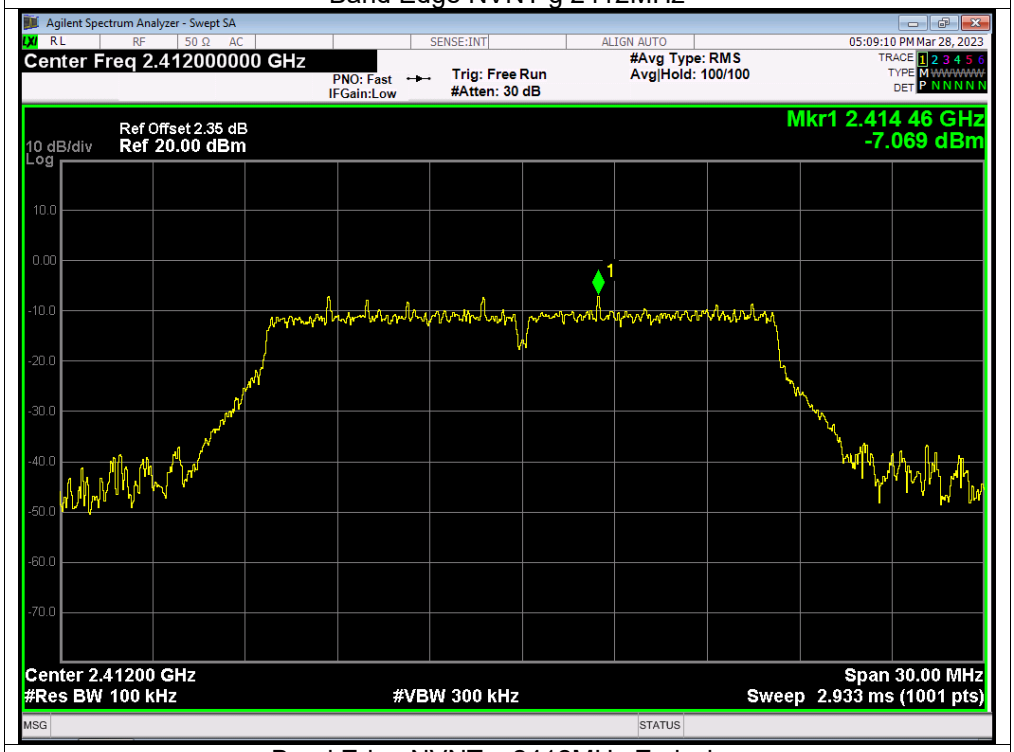
Band Edge NVNT b 2462MHz



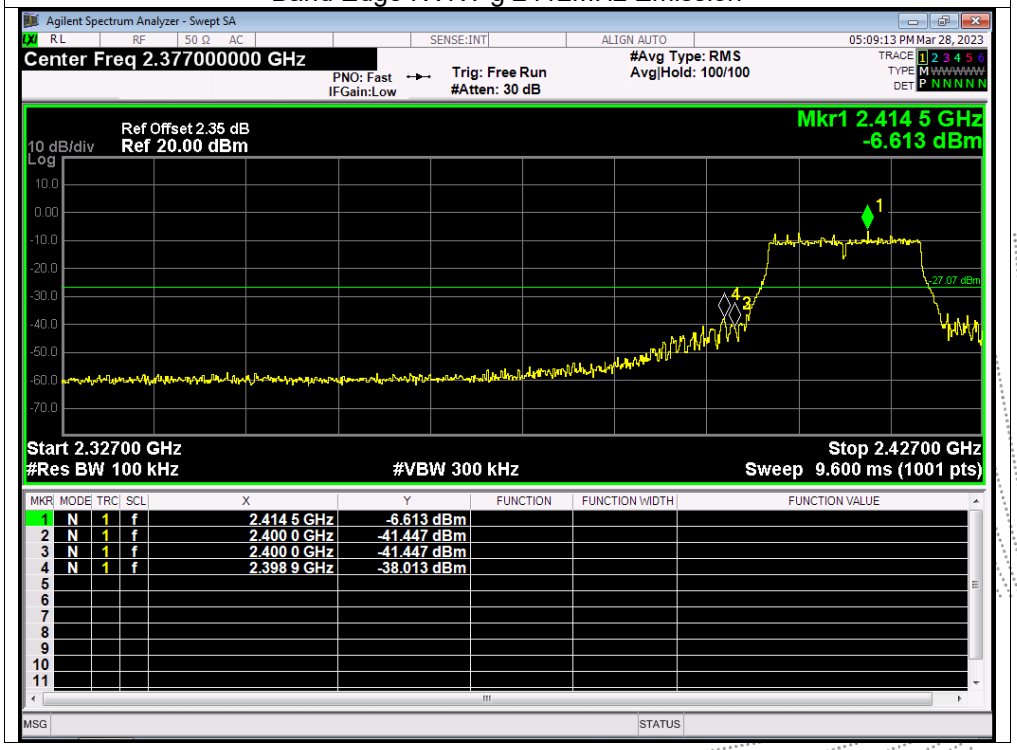
Band Edge NVNT b 2462MHz Emission



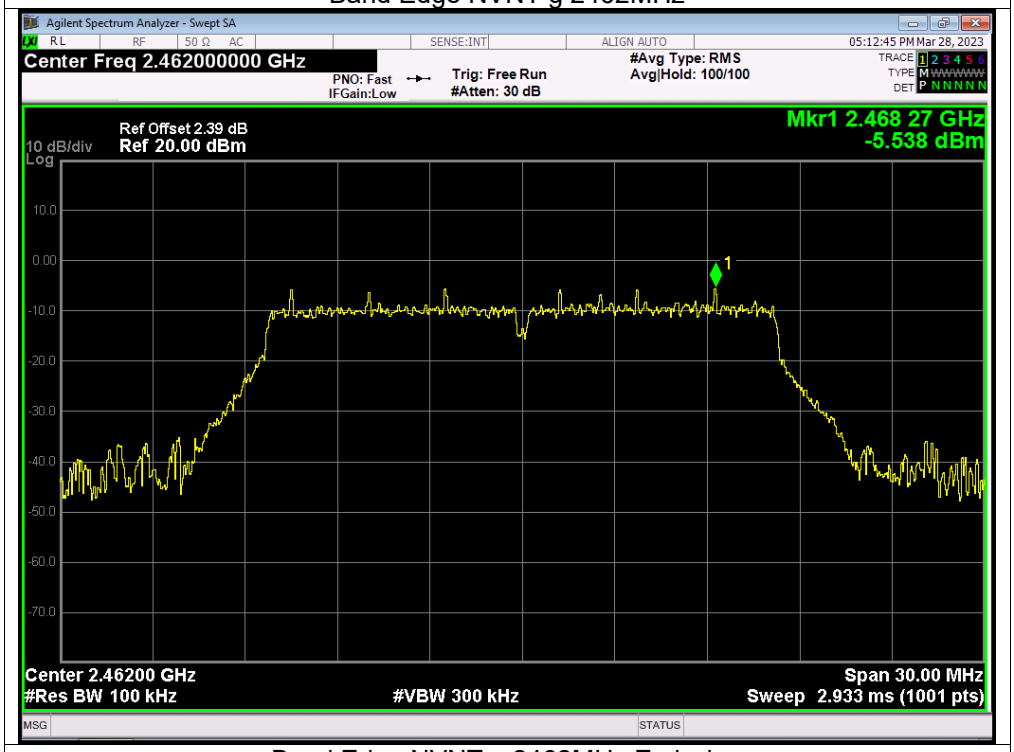
Band Edge NVNT g 2412MHz



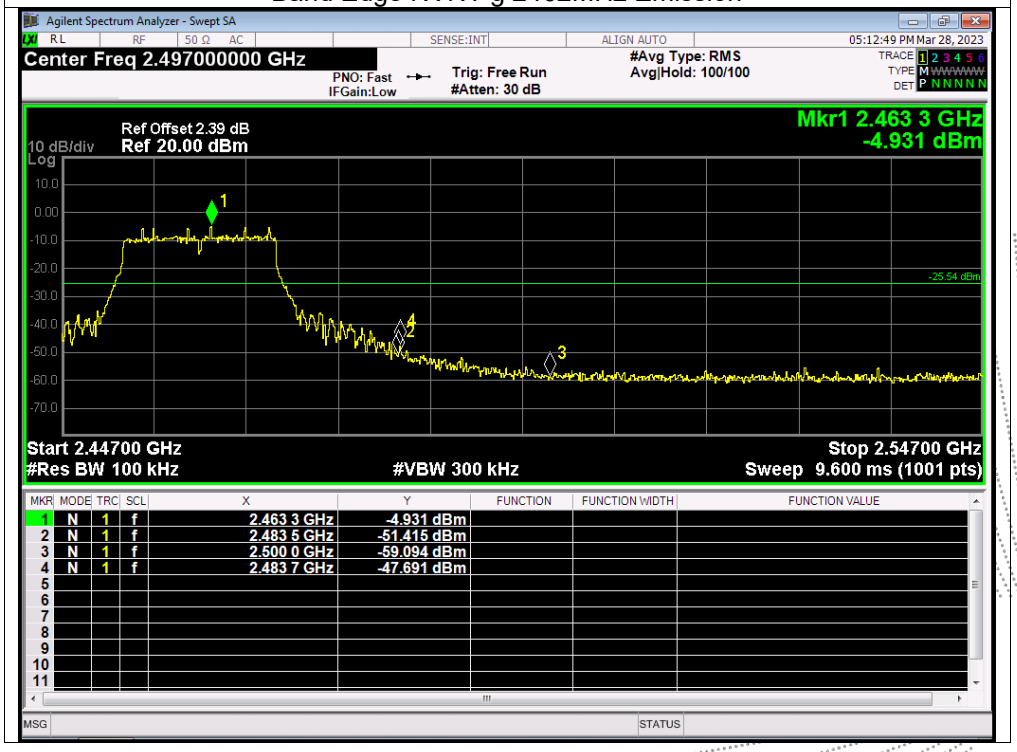
Band Edge NVNT g 2412MHz Emission



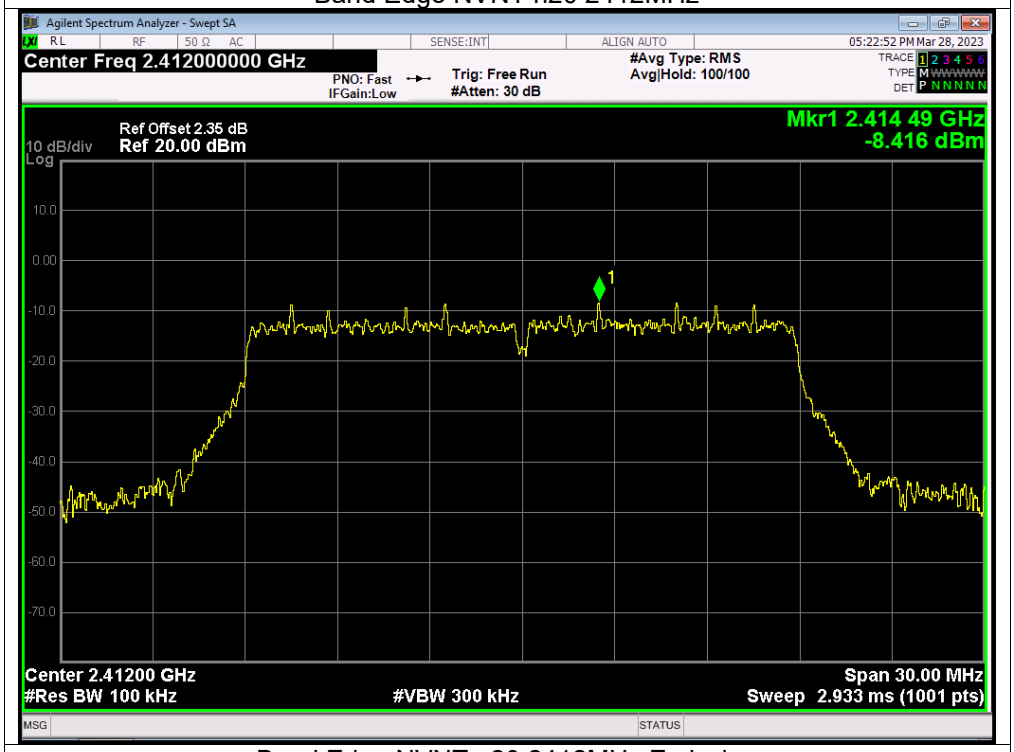
Band Edge NVNT g 2462MHz



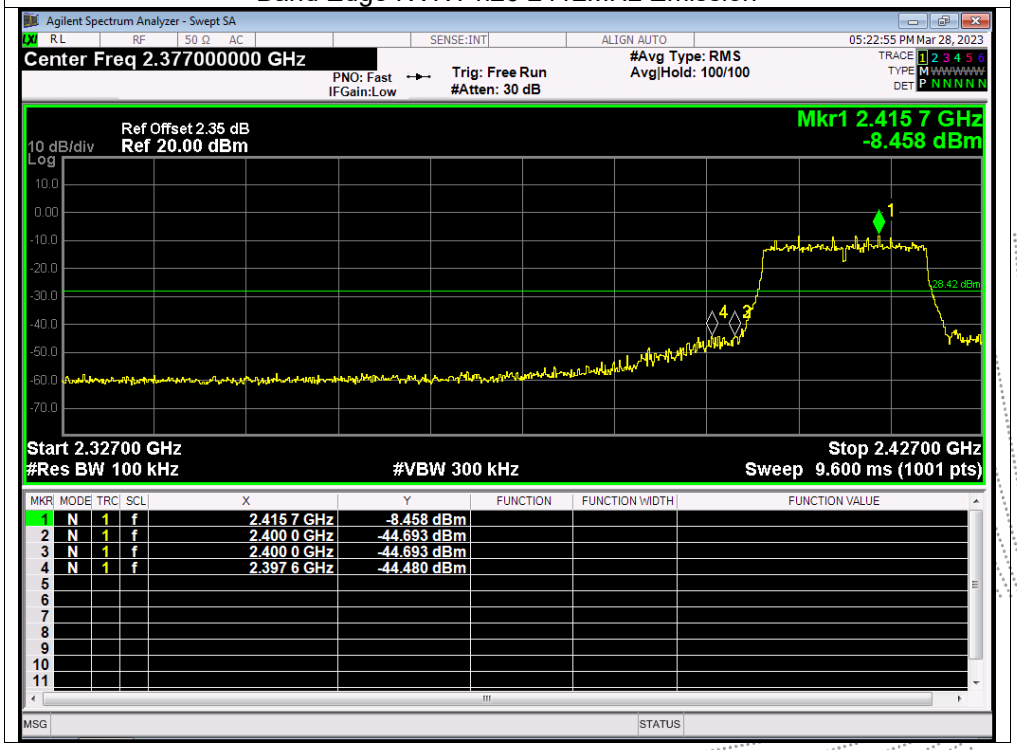
Band Edge NVNT g 2462MHz Emission



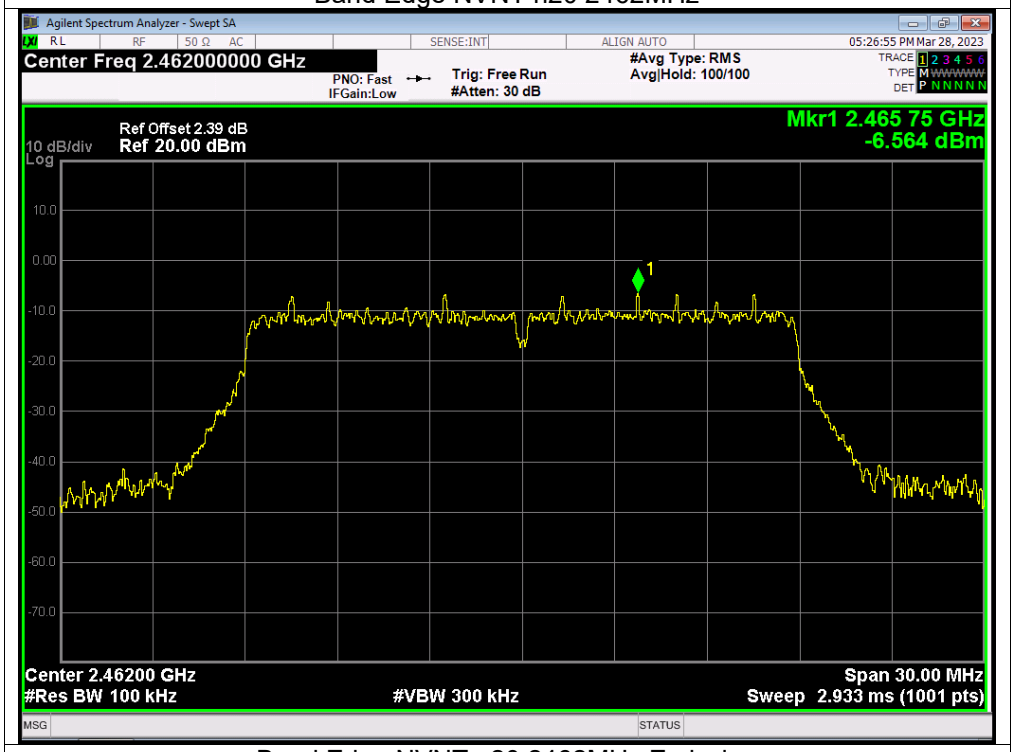
Band Edge NVNT n20 2412MHz



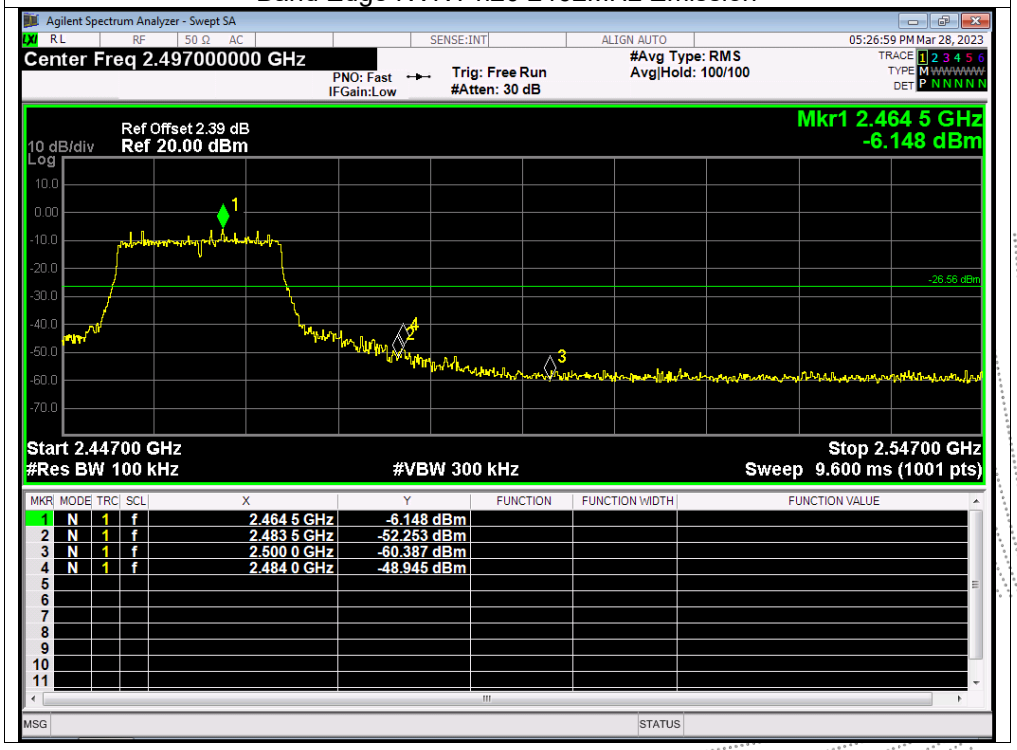
Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz

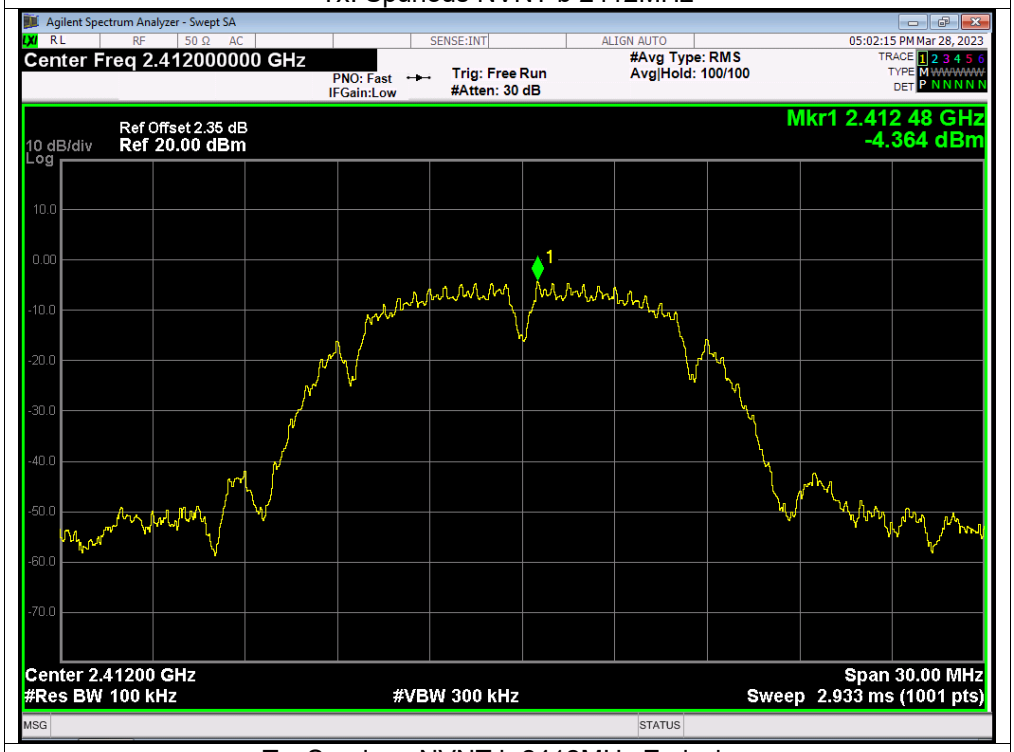


Band Edge NVNT n20 2462MHz Emission

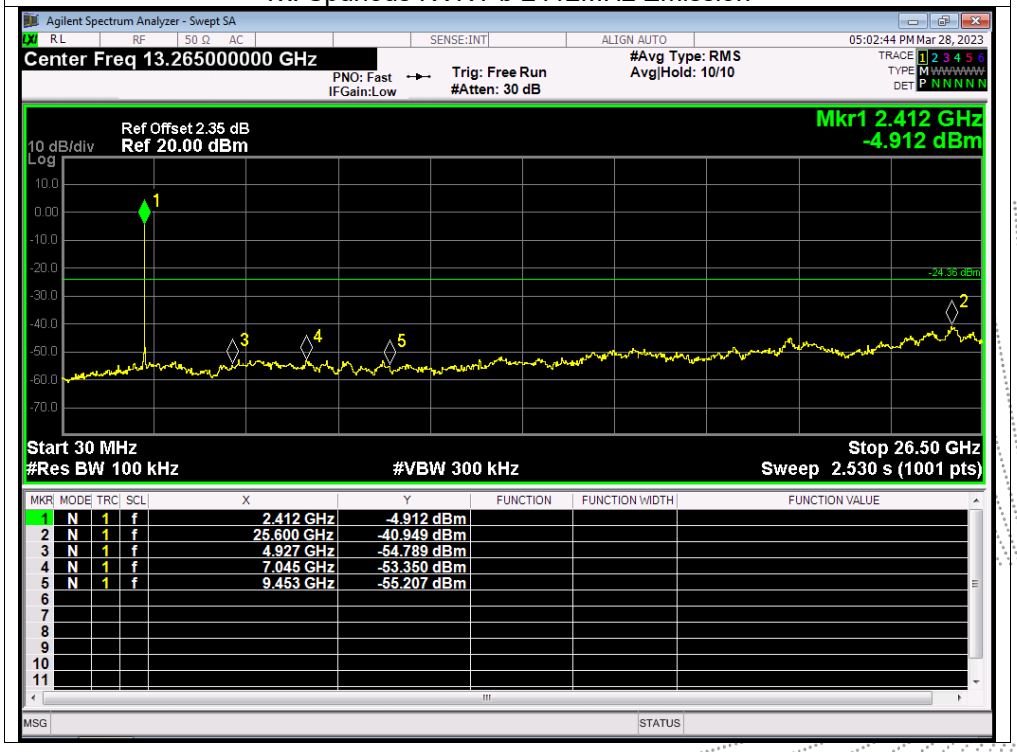


Test Graphs

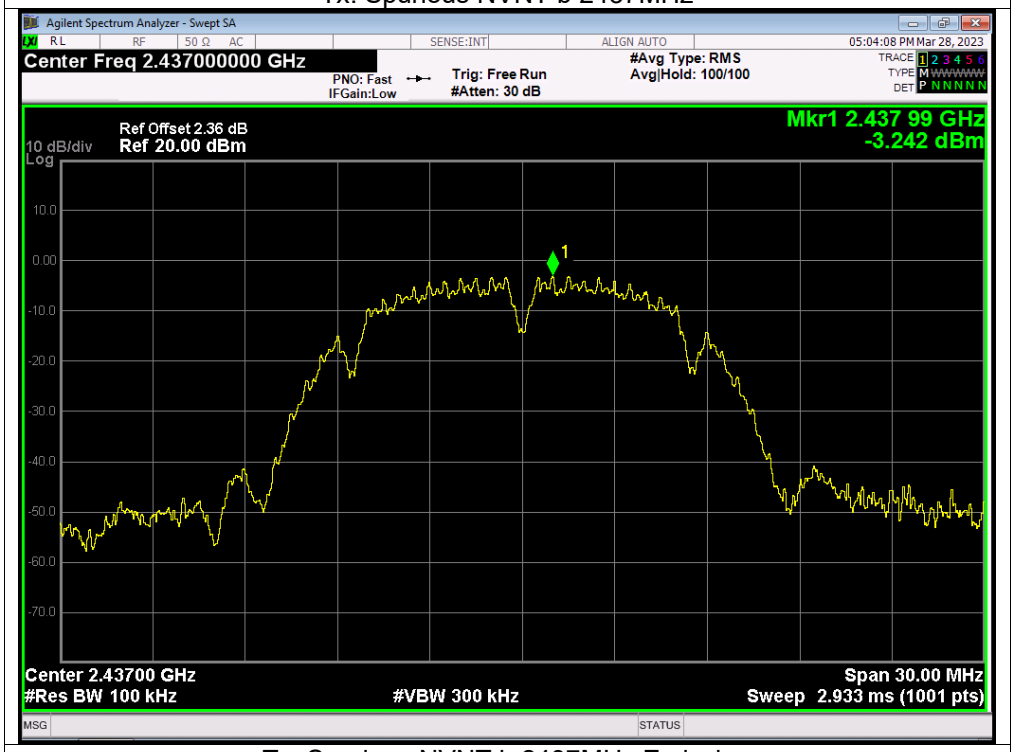
Tx. Spurious NVNT b 2412MHz



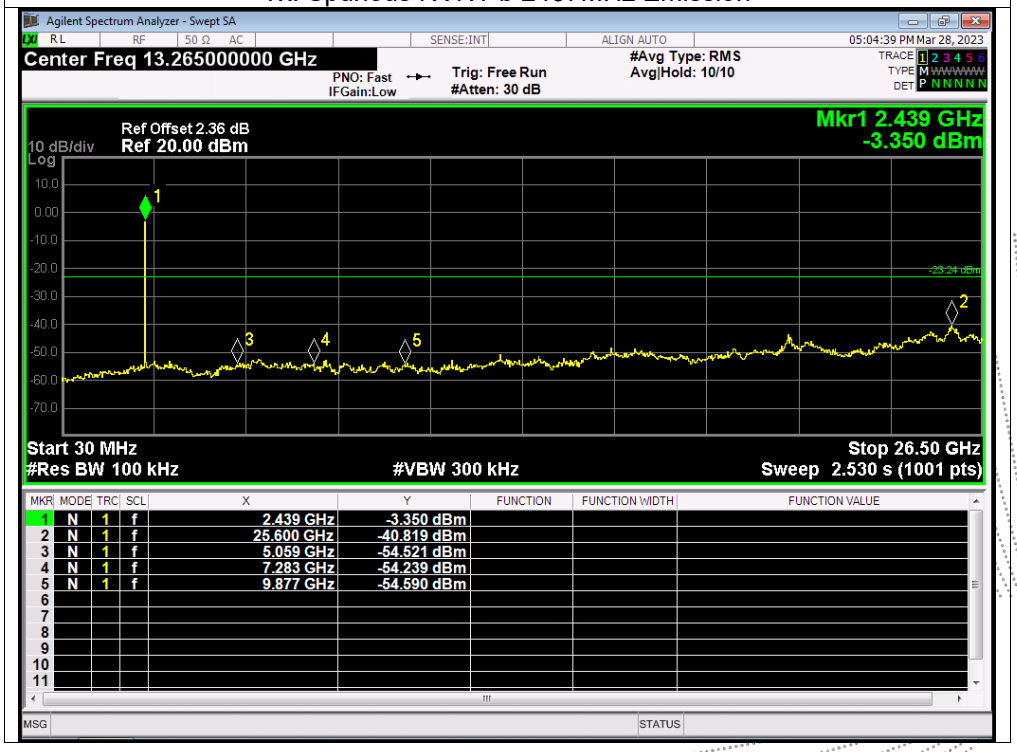
Tx. Spurious NVNT b 2412MHz Emission



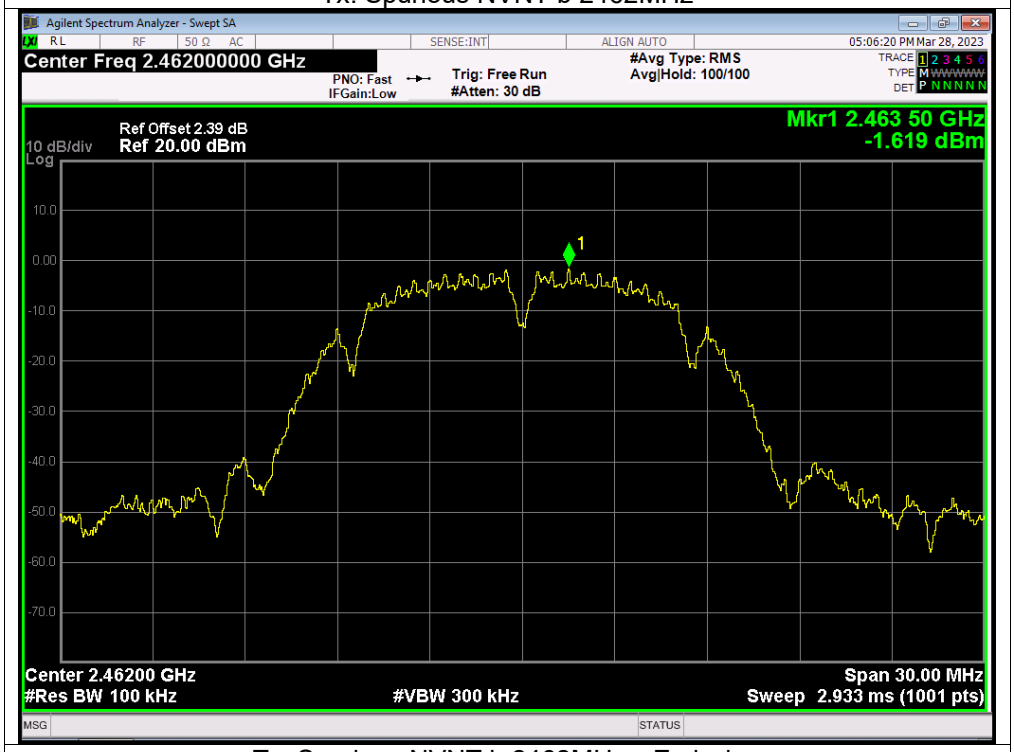
Tx. Spurious NVNT b 2437MHz



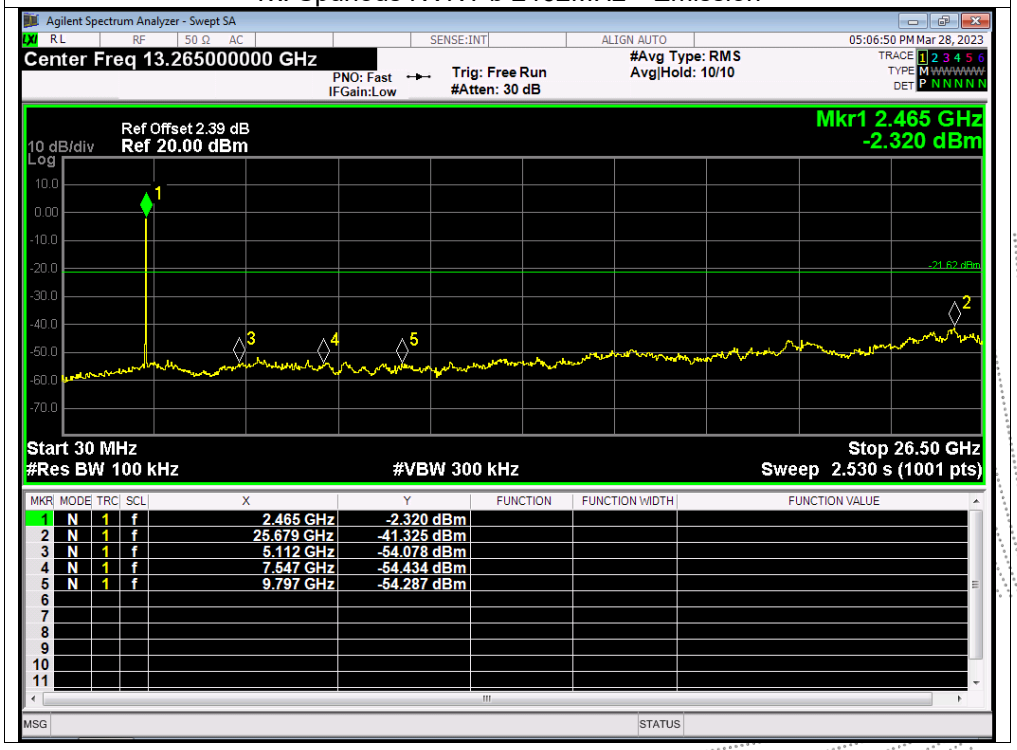
Tx. Spurious NVNT b 2437MHz Emission



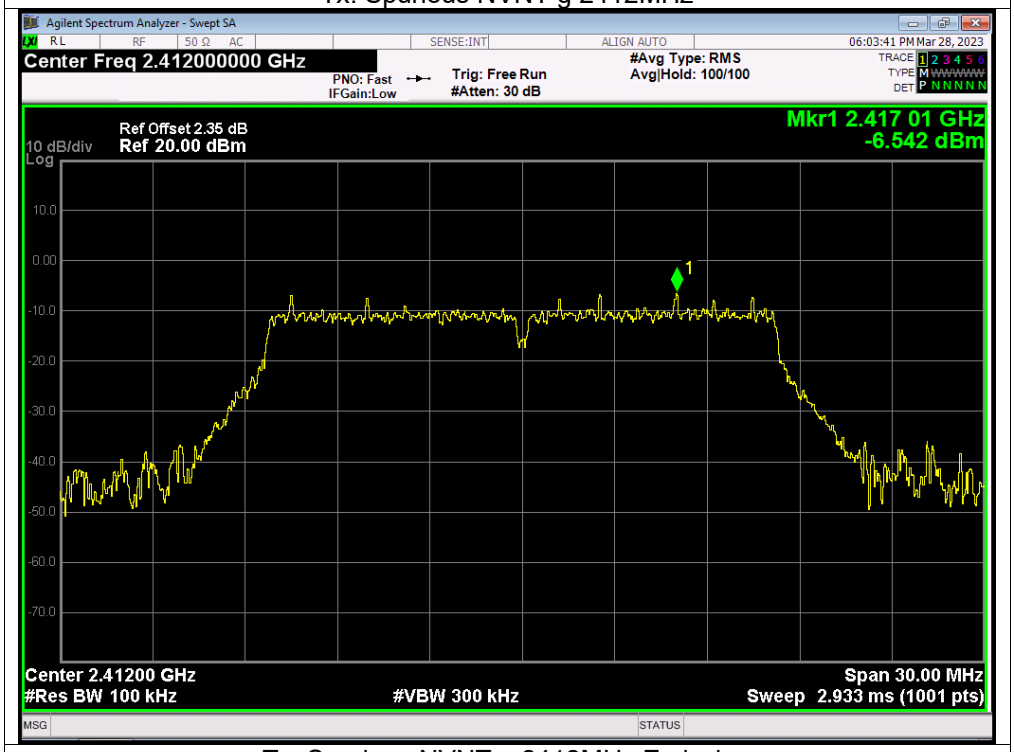
Tx. Spurious NVNT b 2462MHz



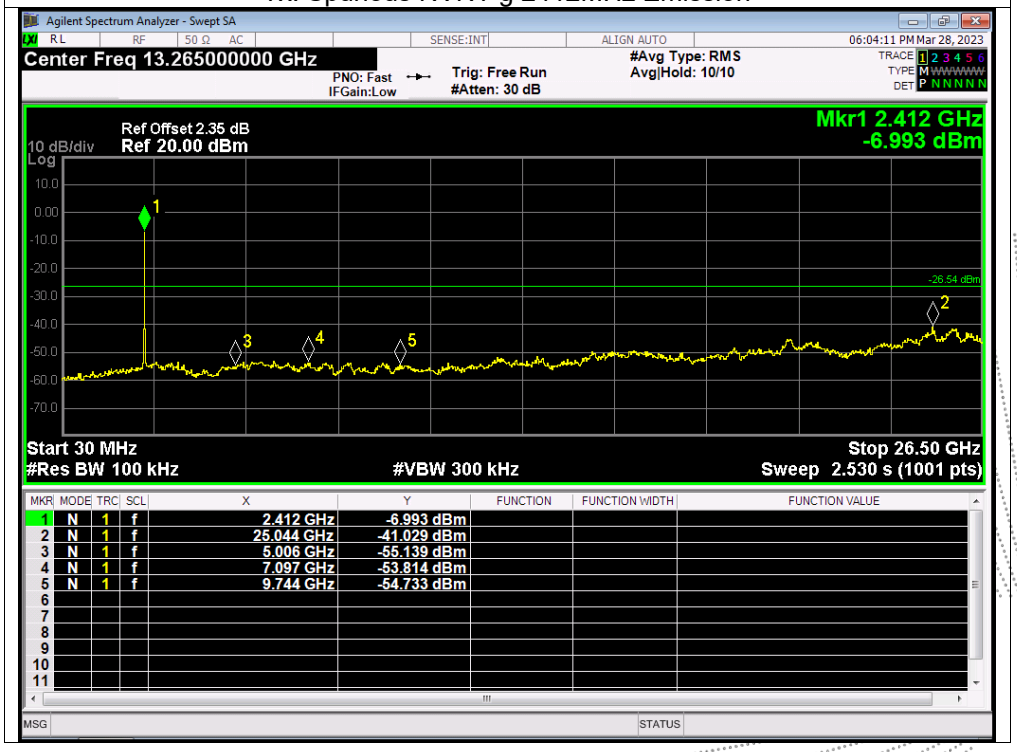
Tx. Spurious NVNT b 2462MHz Emission



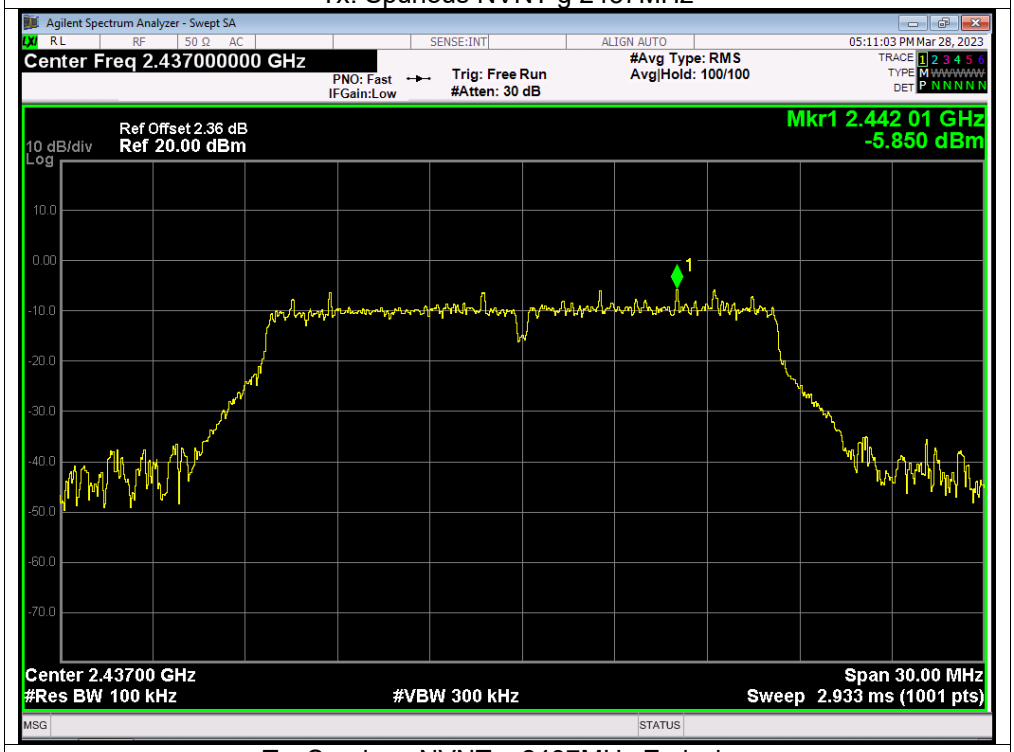
Tx. Spurious NVNT g 2412MHz



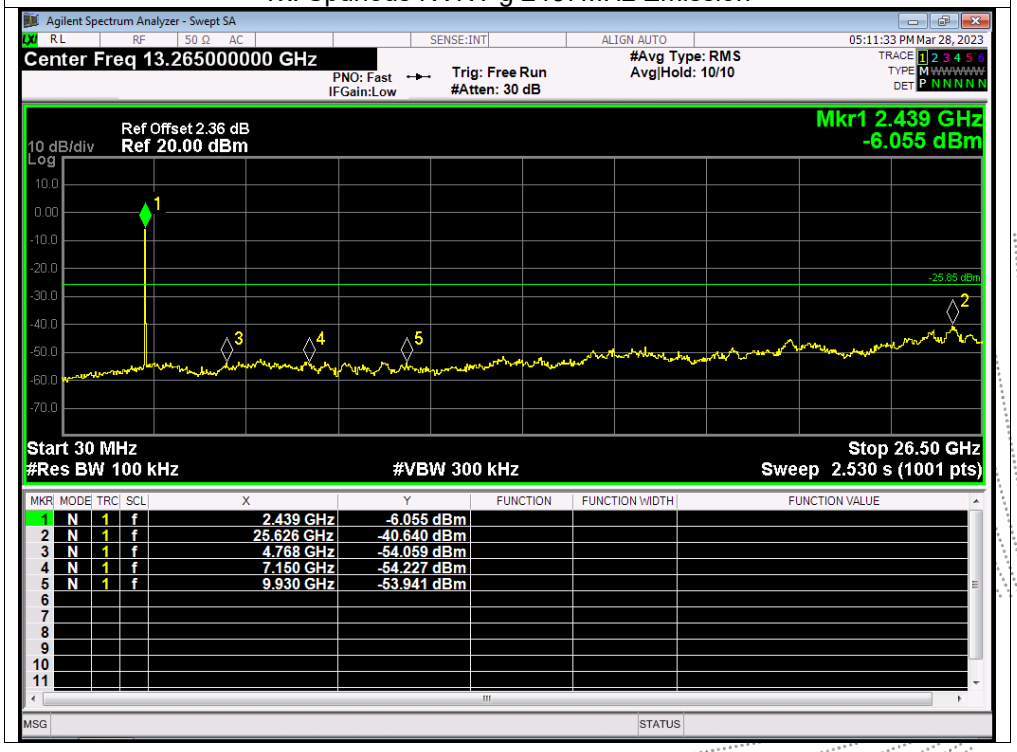
Tx. Spurious NVNT g 2412MHz Emission



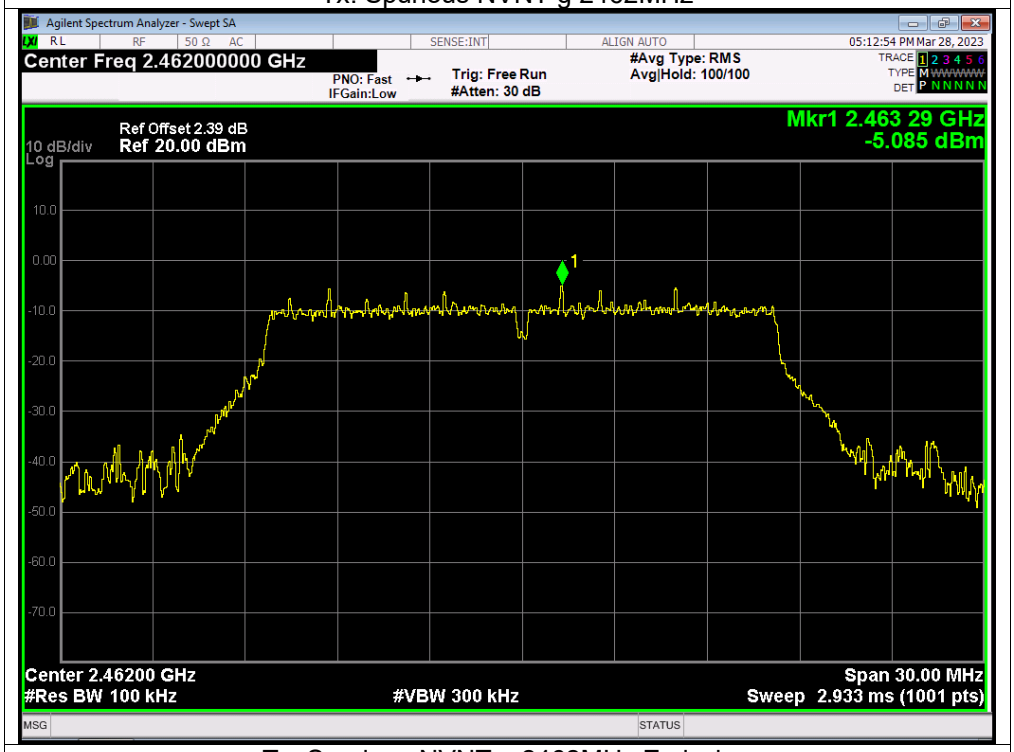
Tx. Spurious NVNT g 2437MHz



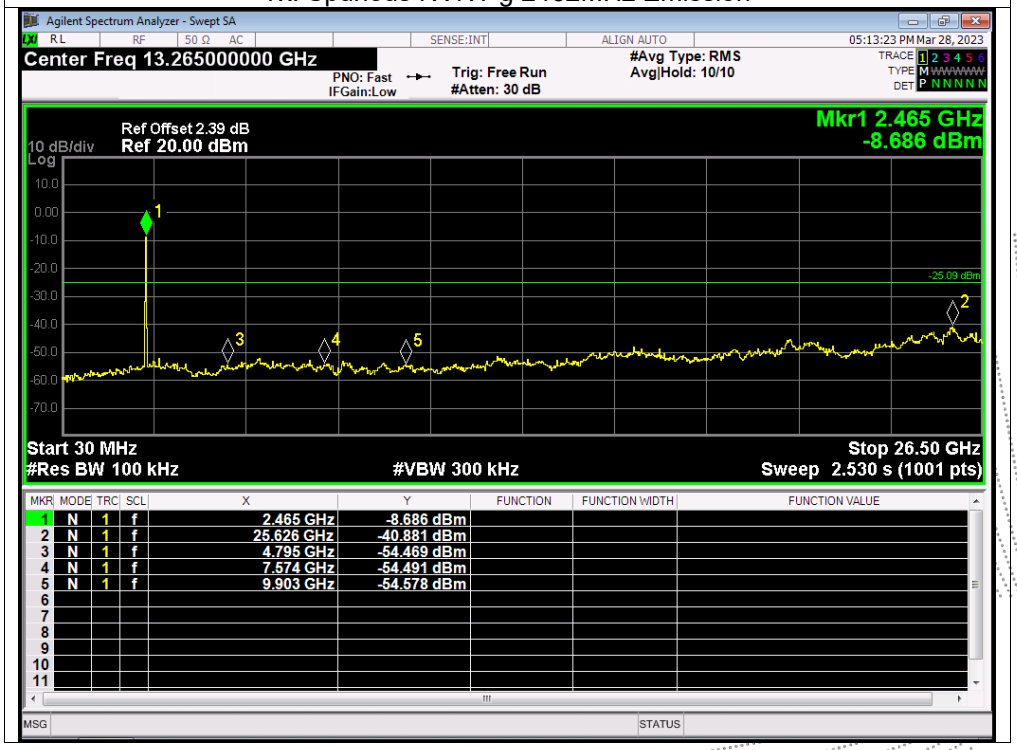
Tx. Spurious NVNT g 2437MHz Emission



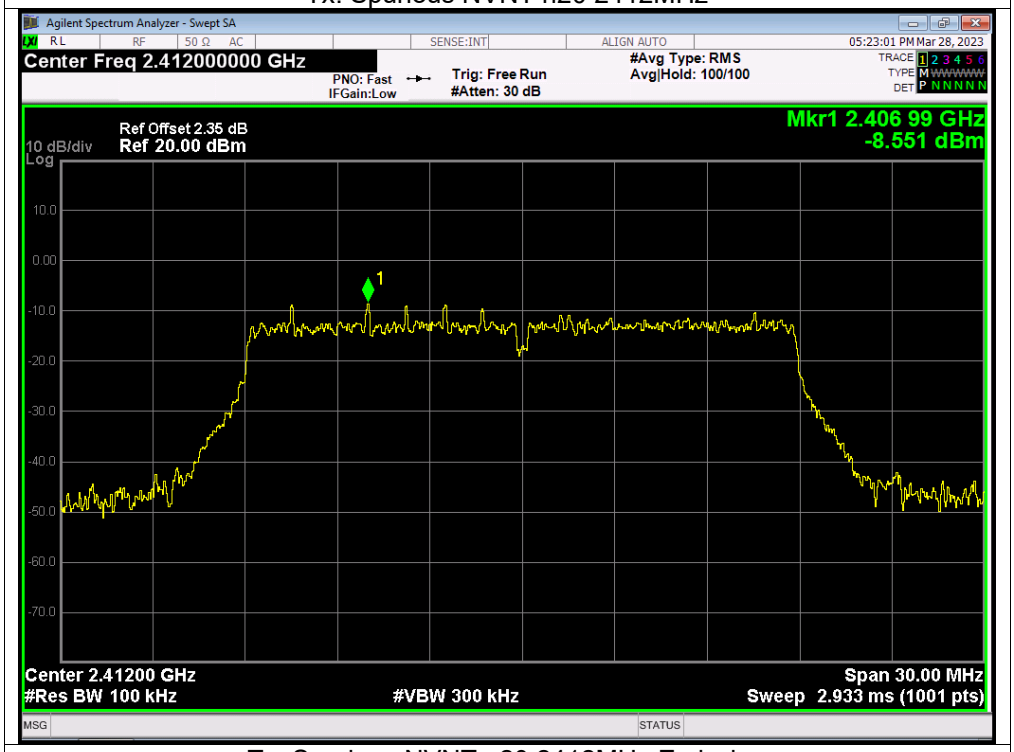
Tx. Spurious NVNT g 2462MHz



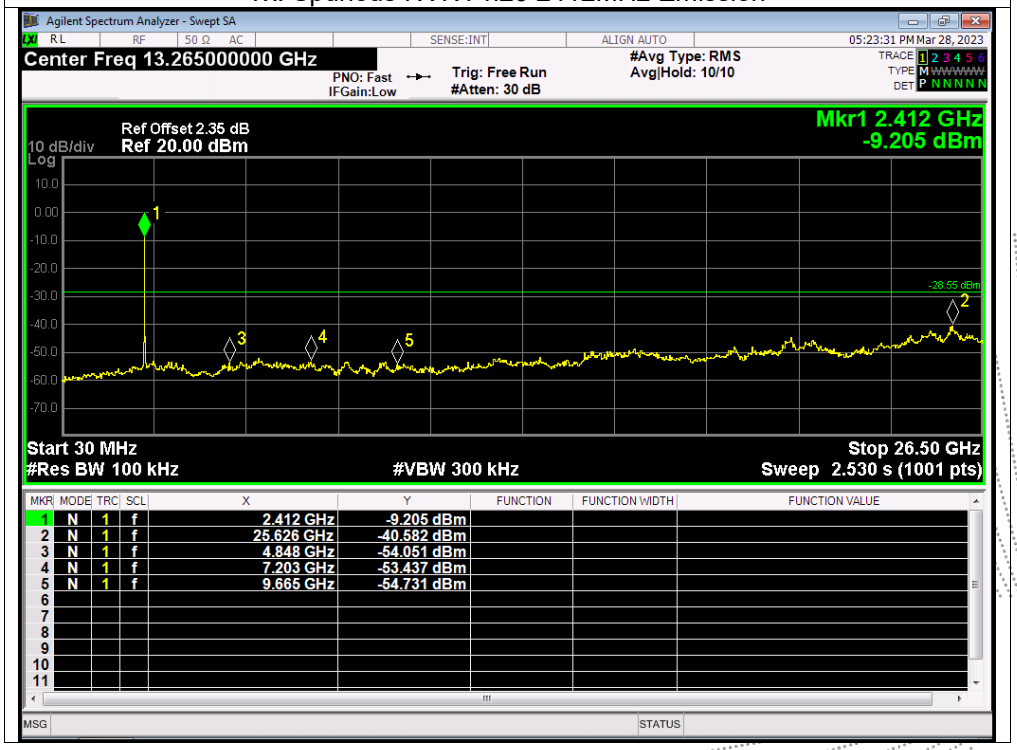
Tx. Spurious NVNT g 2462MHz Emission



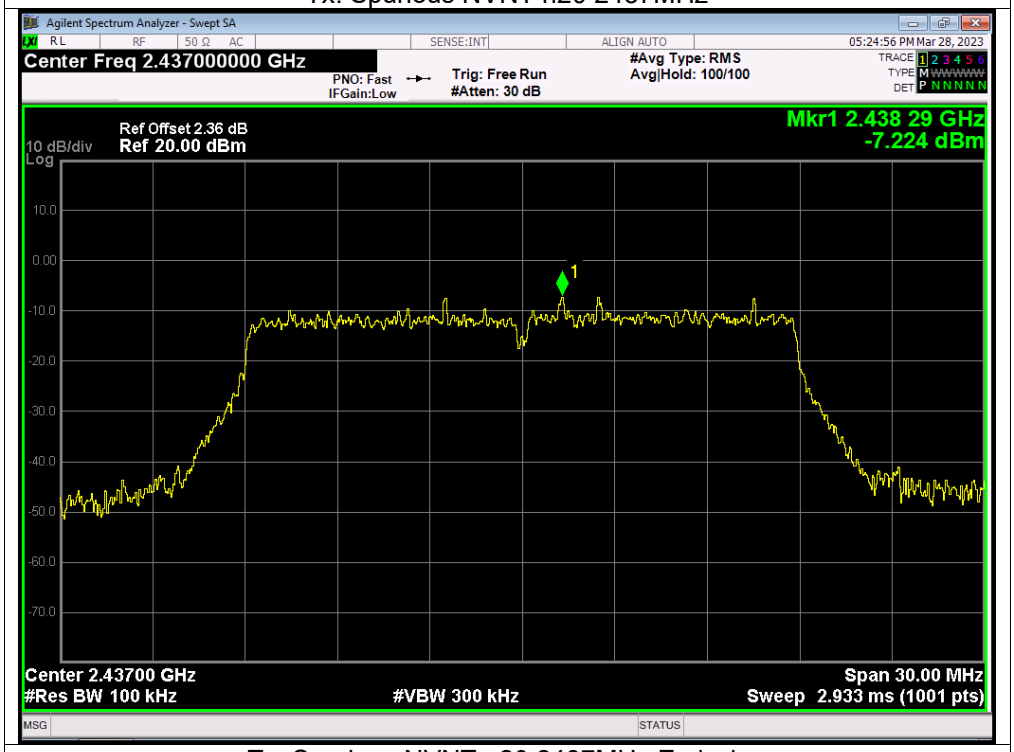
Tx. Spurious NVNT n20 2412MHz



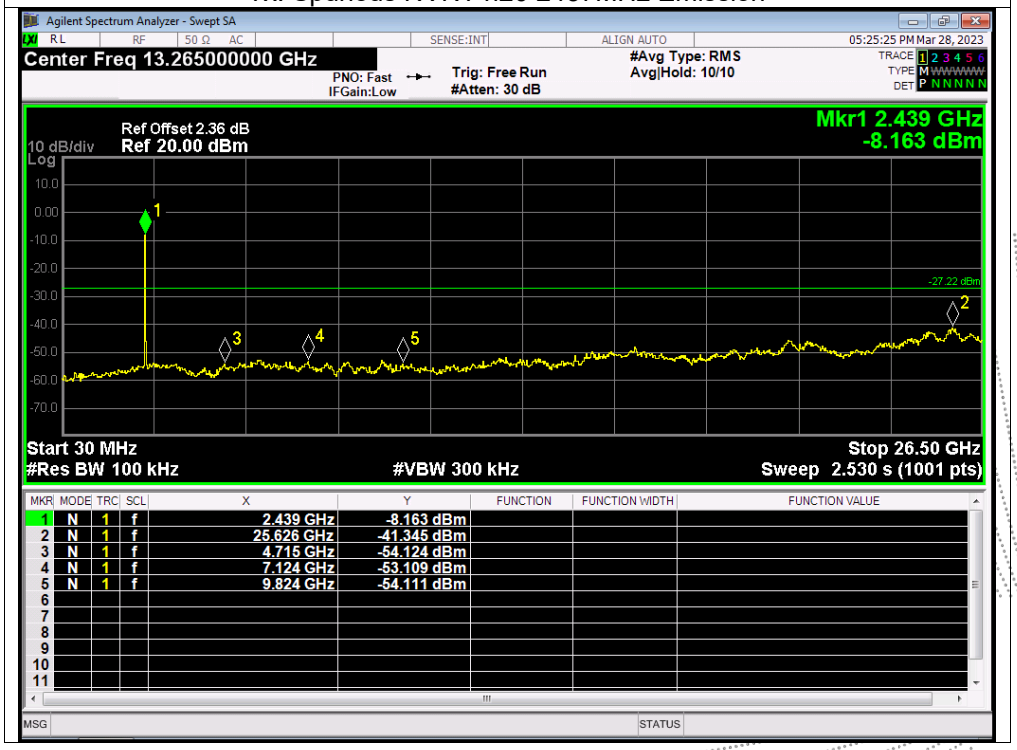
Tx. Spurious NVNT n20 2412MHz Emission



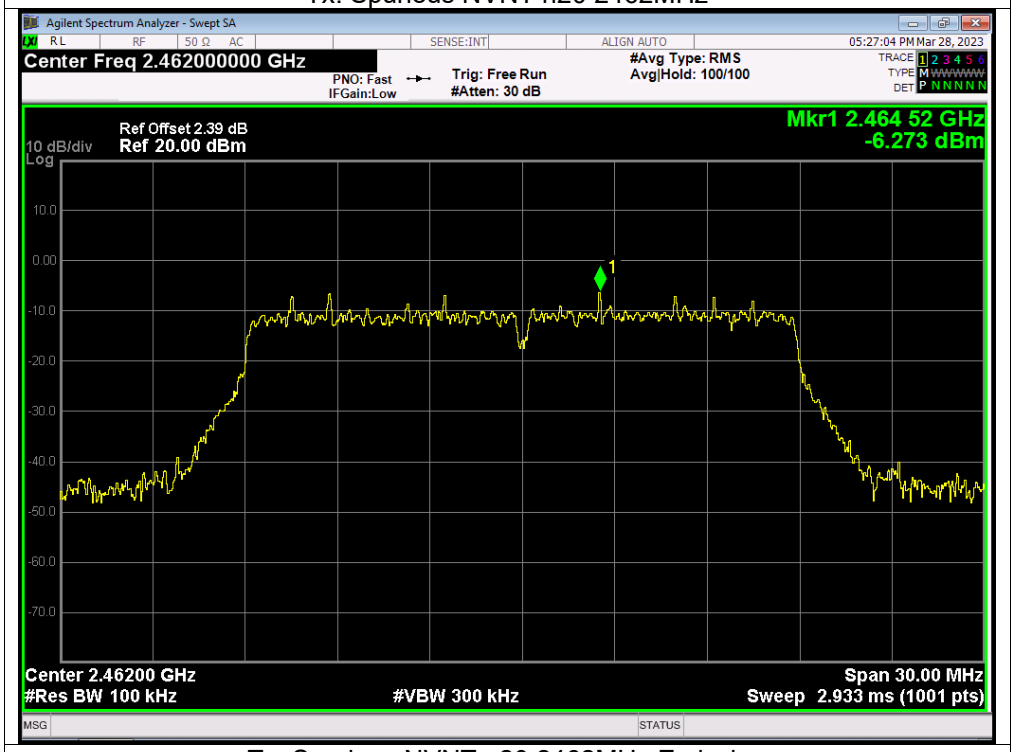
Tx. Spurious NVNT n20 2437MHz



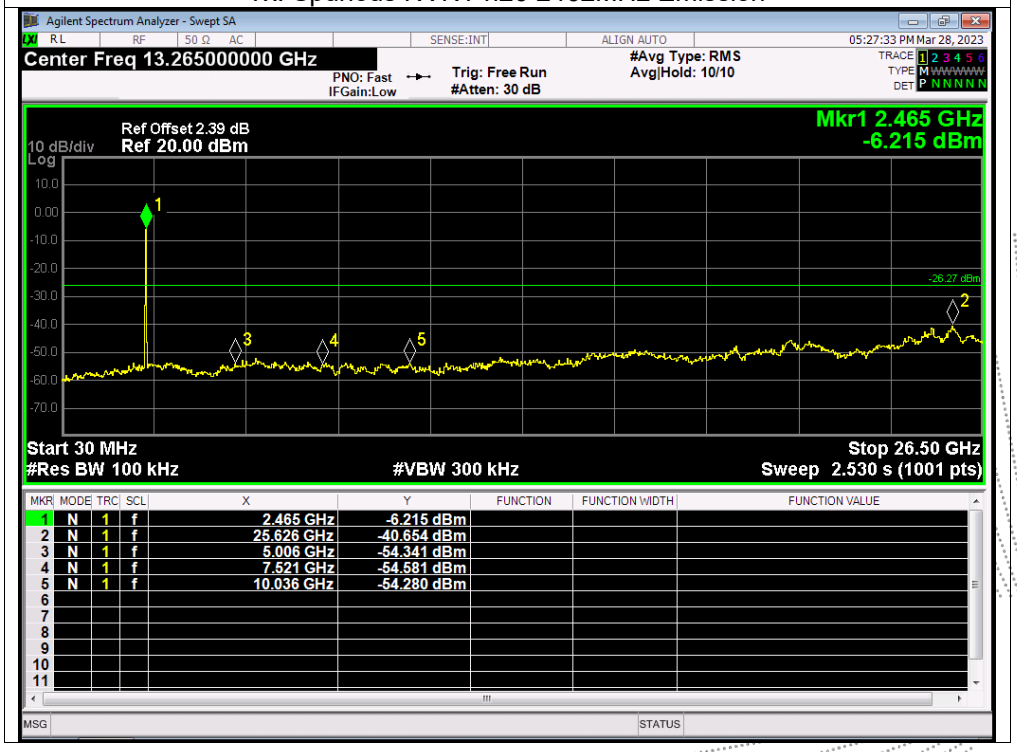
Tx. Spurious NVNT n20 2437MHz Emission



Tx. Spurious NVNT n20 2462MHz



Tx. Spurious NVNT n20 2462MHz Emission



13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

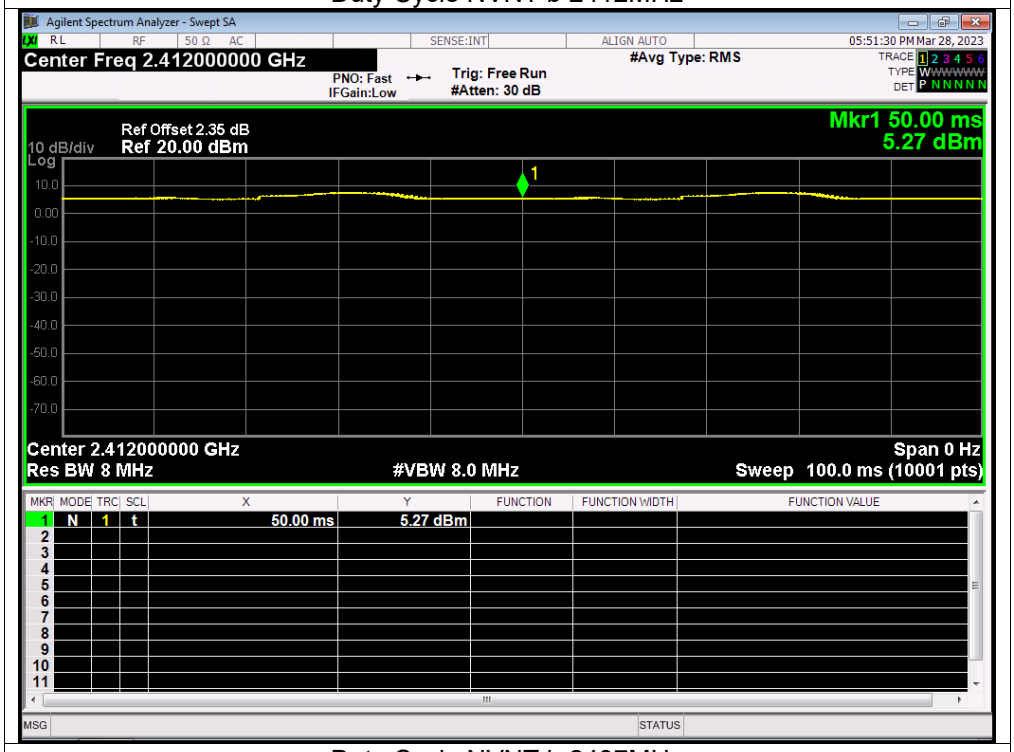
1.Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

13.4 Test Result

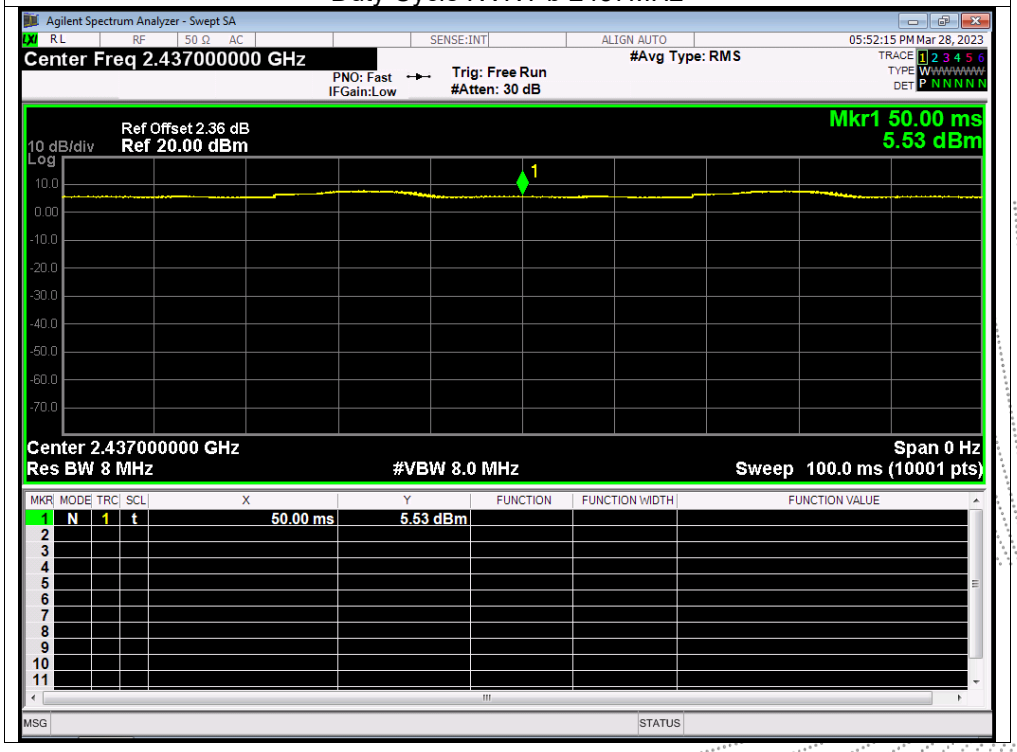
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (Hz)
b	2412	100	0	10
b	2437	100	0	10
b	2462	100	0	10
g	2412	100	0	10
g	2437	100	0	10
g	2462	100	0	10
n20	2412	100	0	10
n20	2437	100	0	10
n20	2462	100	0	10

Test Graphs

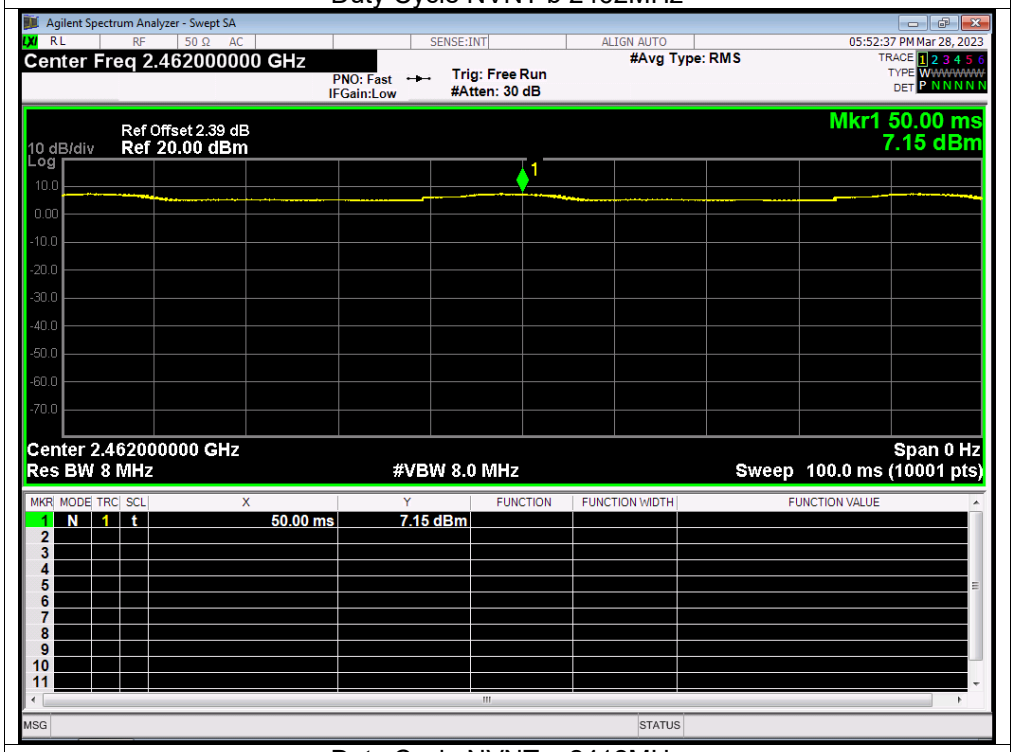
Duty Cycle NVNT b 2412MHz



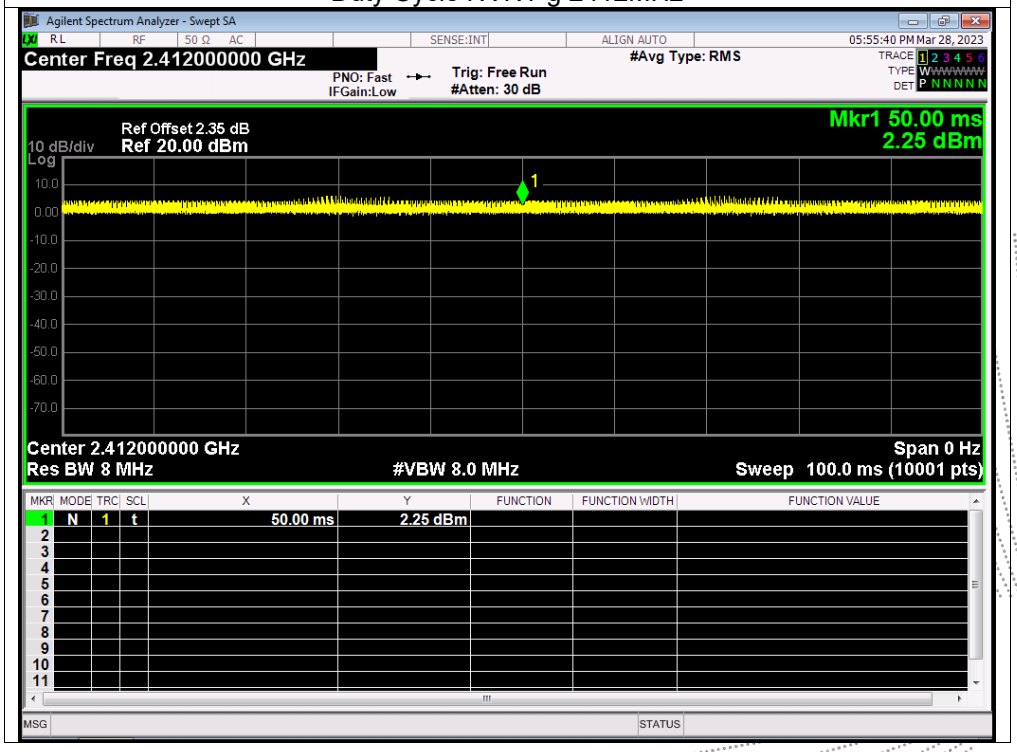
Duty Cycle NVNT b 2437MHz



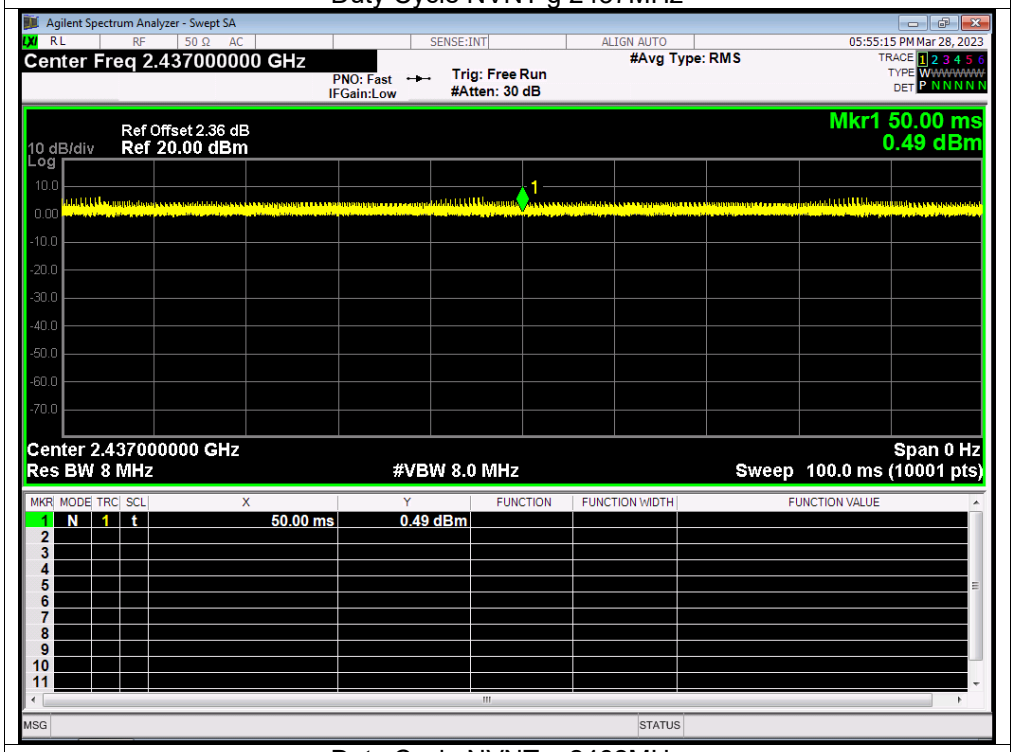
Duty Cycle NVNT b 2462MHz



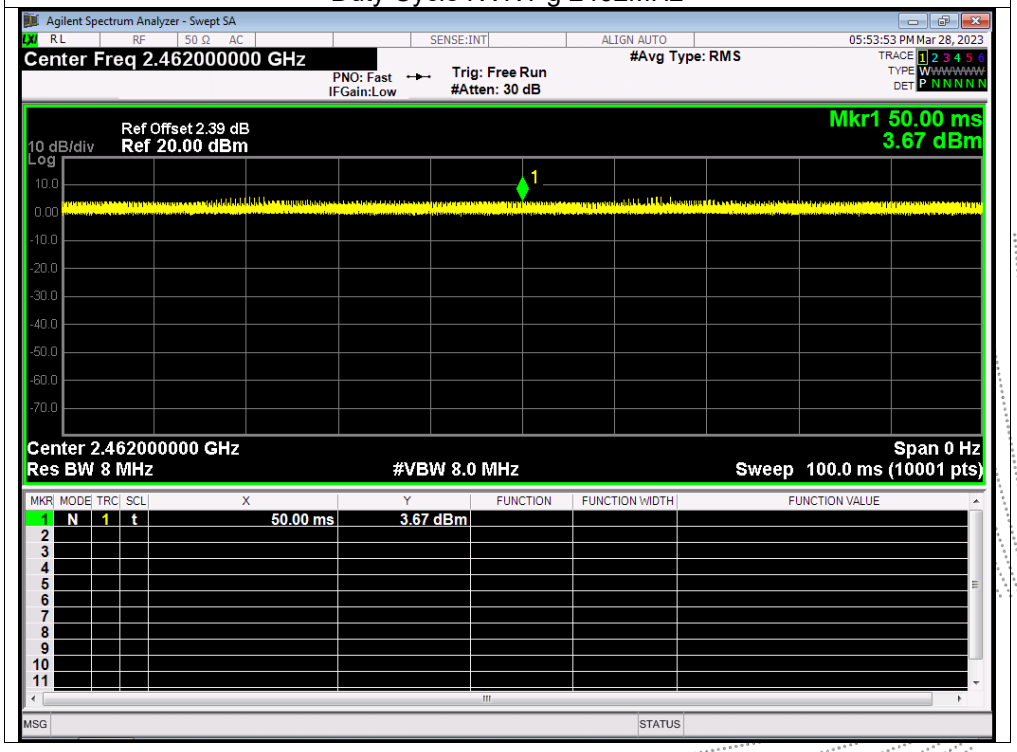
Duty Cycle NVNT g 2412MHz



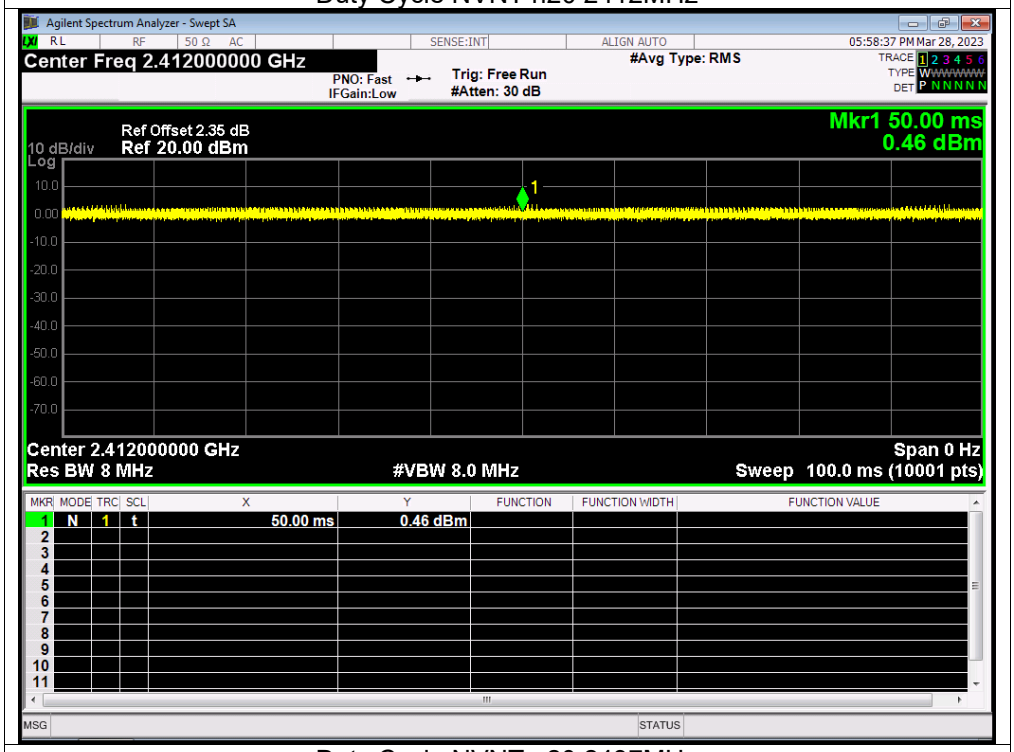
Duty Cycle NVNT g 2437MHz



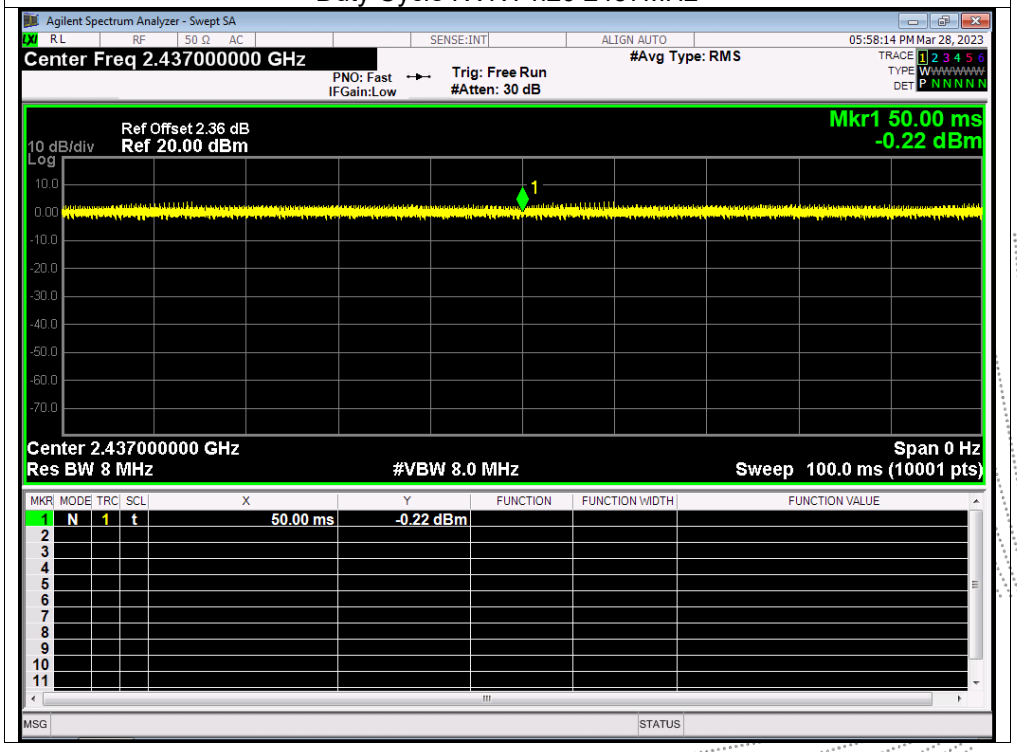
Duty Cycle NVNT g 2462MHz



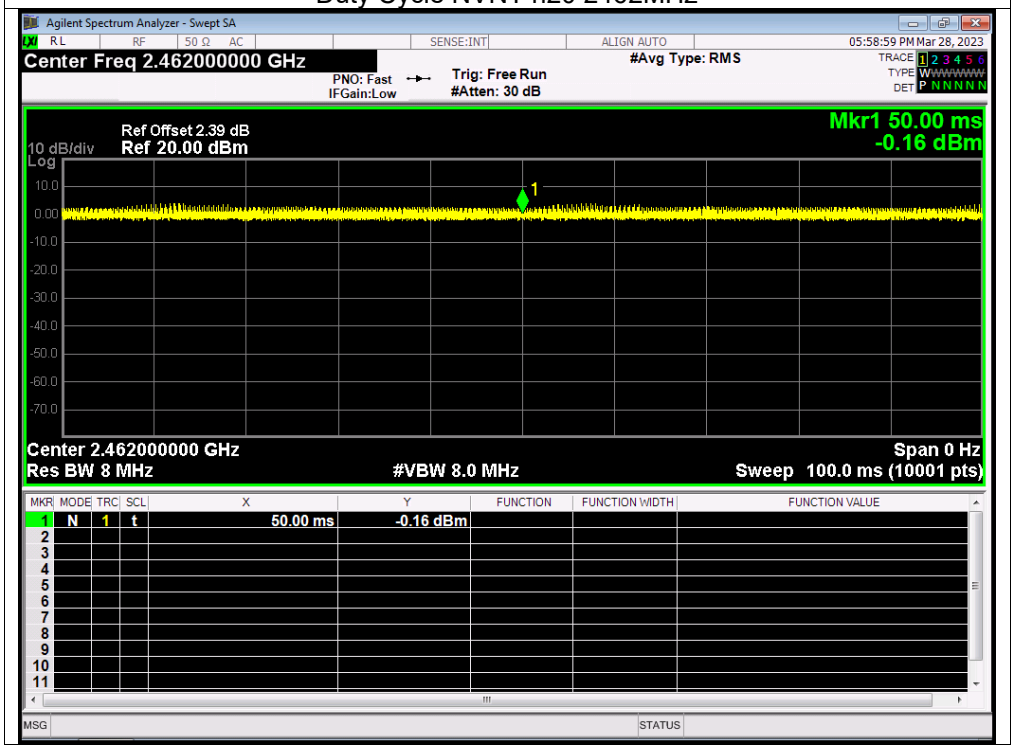
Duty Cycle NVNT n20 2412MHz



Duty Cycle NVNT n20 2437MHz



Duty Cycle NVNT n20 2462MHz



14. Antenna Requirement

14.1 Limit

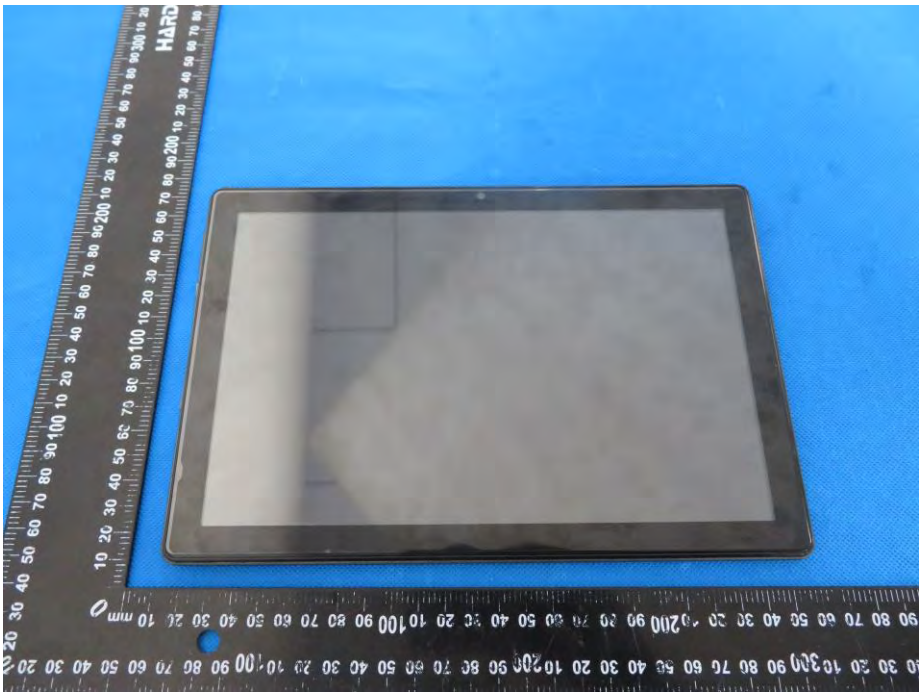
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.2 Test Result

The EUT antenna is FPC antenna, fulfill the requirement of this section.

15. EUT Photographs

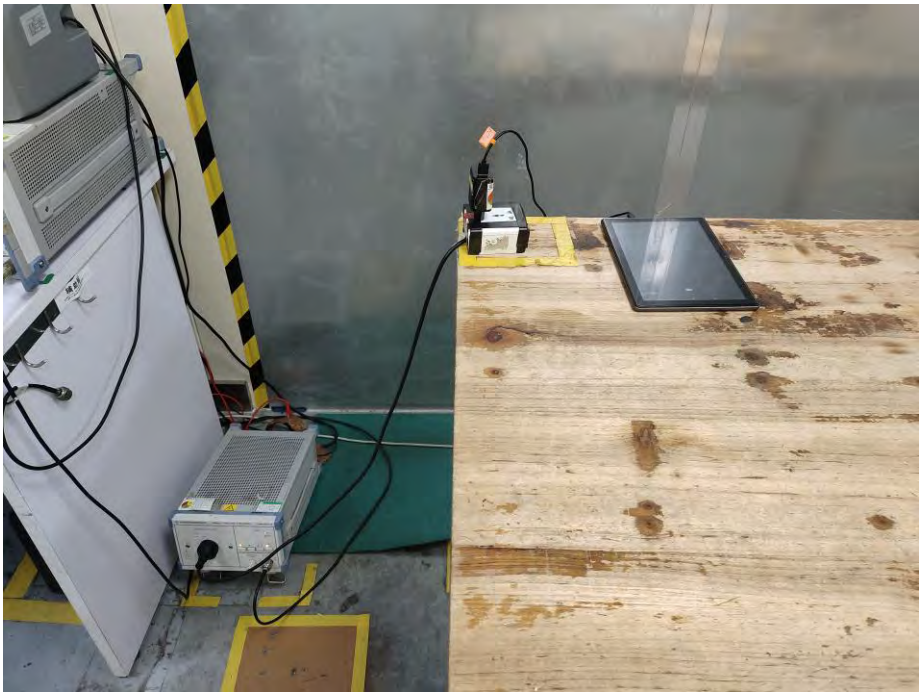
EUT Photo



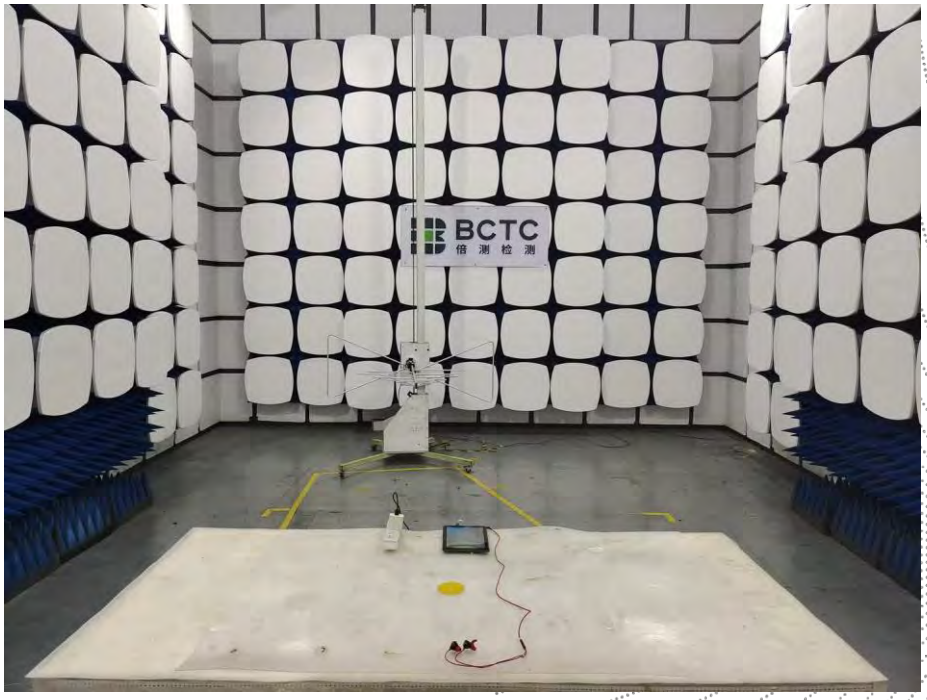
Appendix-Photographs Of EUT Constructional Details

16. EUT Test Setup Photographs

Conducted Emissions Photo



Radiated Measurement Photos



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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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P.C.: 518103

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Website：http://www.chnbctc.com

E-Mail：bctc@bctc-lab.com.cn

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