



TEST REPORT

Applicant: Guangzhou FriendlyElec Technology Co., Limited

Address of Applicant: Room1106, 11F, East Tower, Top Plaza, No.222, Xingmin Road, Tianhe District, Guangzhou, China

Manufacturer: Guangzhou FriendlyElec Technology Co., Limited

Address of Manufacturer: Room1106, 11F, East Tower, Top Plaza, No.222, Xingmin Road, Tianhe District, Guangzhou, China

Product Name: Single Board Computer

Model No.: NanoPi R28S

Trade Mark: N/A

FCC ID: 2BXZJ-R28S

Applicable standards: CFR Title 47 Part 15.247

Date of Test: Aug.20, 2026- Sep.22, 2026

Date of report issued: Sep.22, 2026

Remark:

The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

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Approved by:

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Authorized Signature



Report Revision History		
Report No.	Description	Issue Date
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1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	47CFR Part 15.203 /247(b)(4)	Pass	/
AC Power Line Conducted Emission	47CFR part 15.207	Pass	Jason Huang
Conducted Output Power	47CFR part 15.247 (b)(3)	Pass	Oliver Wang
6dB Bandwidth	47CFR part 15.247 (a)(2)	Pass	Oliver Wang
Power Spectral Density	47CFR part 15.247 (e)	Pass	Oliver Wang
Band Edge	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Oliver Wang
Spurious Emission	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Leo Zhong

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and KDB558074 D01 15.247 Meas Guidance v05r02.
3. Note: Compliance determination rules
 - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacturur. If measurement uncertainty is taken into account, the applicant/manufacturur will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.72%	(1)
RF output power, conducted	±0.67 dB	(1)
Power Spectral Density, conducted	±0.51 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 3.38 dB	(1)
Radiated emissions 9K-30MHz	±4.26 dB	(1)
Radiated emissions 30M- 1GHz	±4.88 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.16 dB	(1)
Radiated emissions 18GHz-40GHz	±4.14 dB	(1)
Frequency error	Uc=6X10-7	(1)
Duty Cycle	±0.03%	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



2. General Information

2.1 General Description of EUT

Product Name:	Single Board Computer
Model No.:	NanoPi R28S
Difference of model(s)	N/A
Test Model:	NanoPi R28S
Hardware version:	N/A
Software version:	N/A
Power supply:	DC 5V from adapter with AC 230V/50Hz
Adapter information:	N/A
Battery:	N/A
Radio Technology:	2.4G WLAN
Operation Frequency:	2412MHz~2462MHz
Channel Numbers:	802.11b/802.11g /802.11n20: 11 802.11n40:7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n20/802.11n40: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPC antenna
Antenna gain:	2.12dBi
Note: 1. Other information please Reference user manual. 2. Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.	



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

Note:

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

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n20	802.11n40
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

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

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

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	ADAPTER	XIAO MI	MDY-11-EM	/

2.4 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440
IC CAB identifier:	CN0132
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

2.5 Additional Instructions

Test Software	Manufacturer-specific serial commands
Power level setup	Default



3. Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101214	2026.3.05	2027.3.04
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2026.3.05	2027.3.04
3	Loop Antenna	schwarabeck	FMZB 1519 B	128	2026.3.08	2028.3.07
4	Broadband antenna	schwarabeck	VULB9168	1064	2026.3.11	2028.3.10
5	Horn antenna	schwarabeck	BBHA9120D	2288	2026.3.08	2028.3.07
6	amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
7	AMN	schwarabeck	NSLK8127	8127483	2026.3.05	2027.3.04
8	AMN	ETS	3186/2NM	1132	2026.3.05	2027.3.04
9	10dB attenuator	HUBER+SUHN R	10dB	/	2026.3.05	2027.3.04
10	amplifier	Space-Dtronics	EWLAN0118G- P40	19113001	2026.3.05	2027.3.04
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2026.3.05	2027.3.04
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
13	Power control box	MWRFTtest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
14	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	19113001	2026.3.05	2027.3.04
16	Horn antenna	schwarabeck	BBHA 9170	946	2026.3.08	2028.3.07
17	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2026/3/06	2027/3/05

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
RF test software	MWRFTtest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4. Test results and Measurement Data

4.1 Antenna requirement

Standard requirement:	47CFR Part 15.203 /247(b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(b) (4) requirement: If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power limit shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi	
EUT Antenna:	
The antenna is FPC antenna, the best case gain of the antenna is 2.12 dBi, reference to the internal photo for details.	

4.2 Conducted Emissions

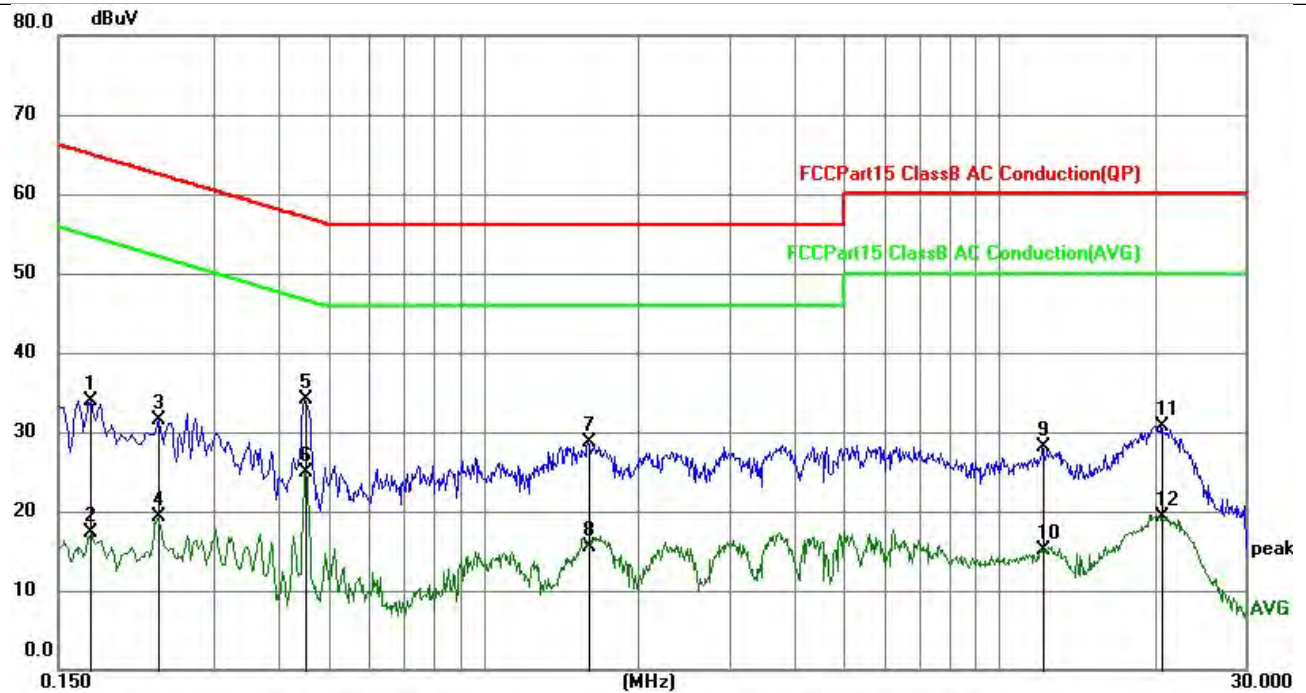
Test Requirement:	47CFR part 15.207						
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 §6.2						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)		Limit (dBuV)				
			Quasi-peak		Average		
	0.15-0.5		66 to 56*		56 to 46*		
	0.5-5		56		46		
	5-30		60		50		
* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane 40cm LISN AUX Equipment E.U.T LISN Filter AC power EMI Receiver Test table/Insulation plane 80cm Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on conducted measurement.						
Test Instruments:	Refer to section 3.0 for details						
Test mode:	Refer to section 2.2 for details						
Test environment:	Temp.:	24.2°C	Humid.:	53%	Press.:	1012mbar	
Test voltage:	AC 120V/60Hz						
Test results:	Pass						

Remark:

- Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
- All modes have been tested, and the report only displays the worst mode b (2412MHz) data

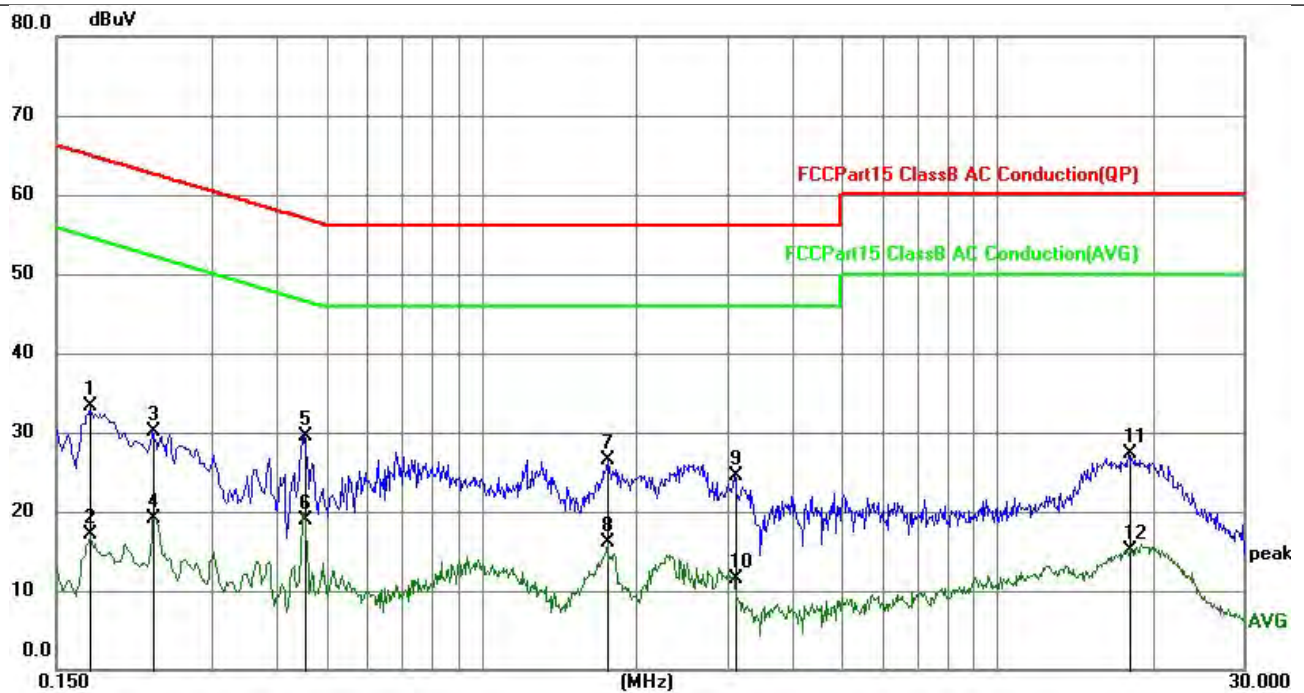
Measurement Result

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1728	23.90	9.97	33.87	64.82	-30.95	QP
2	0.1728	7.42	9.97	17.39	54.82	-37.43	AVG
3	0.2340	21.46	9.98	31.44	62.31	-30.87	QP
4	0.2340	9.29	9.98	19.27	52.31	-33.04	AVG
5	0.4515	23.96	10.06	34.02	56.85	-22.83	QP
6	0.4515	14.83	10.06	24.89	46.85	-21.96	AVG
7	1.5944	18.67	10.04	28.71	56.00	-27.29	QP
8	1.5944	5.47	10.04	15.51	46.00	-30.49	AVG
9	12.1241	17.98	10.05	28.03	60.00	-31.97	QP
10	12.1241	5.07	10.05	15.12	50.00	-34.88	AVG
11	20.6610	20.79	9.92	30.71	60.00	-29.29	QP
12	20.6610	9.30	9.92	19.22	50.00	-30.78	AVG

Neutral:

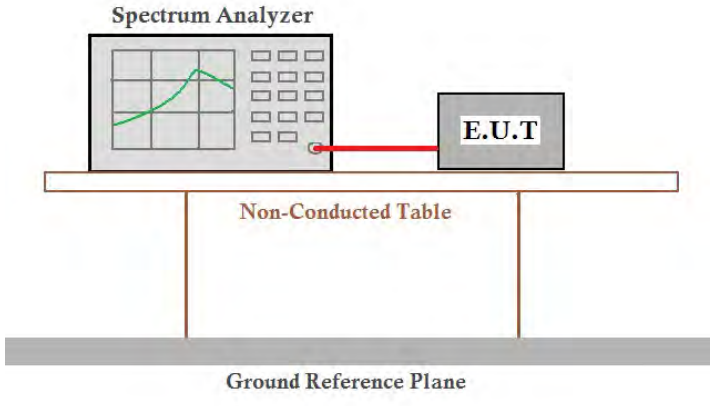


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1737	23.39	9.97	33.36	64.78	-31.42	QP
2	0.1737	7.22	9.97	17.19	54.78	-37.59	AVG
3	0.2310	20.07	9.98	30.05	62.41	-32.36	QP
4	0.2310	9.04	9.98	19.02	52.41	-33.39	AVG
5	0.4560	19.44	10.07	29.51	56.77	-27.26	QP
6	0.4560	8.93	10.07	19.00	46.77	-27.77	AVG
7	1.7606	16.43	10.02	26.45	56.00	-29.55	QP
8	1.7606	6.12	10.02	16.14	46.00	-29.86	AVG
9	3.1065	14.50	10.01	24.51	56.00	-31.49	QP
10	3.1065	1.56	10.01	11.57	46.00	-34.43	AVG
11	18.0240	17.35	9.95	27.30	60.00	-32.70	QP
12	18.0240	5.19	9.95	15.14	50.00	-34.86	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

4.3 Duty cycle

Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§11.6	
Limit:	/	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 5V from adapter	
Test results:	Pass	

Measurement Result

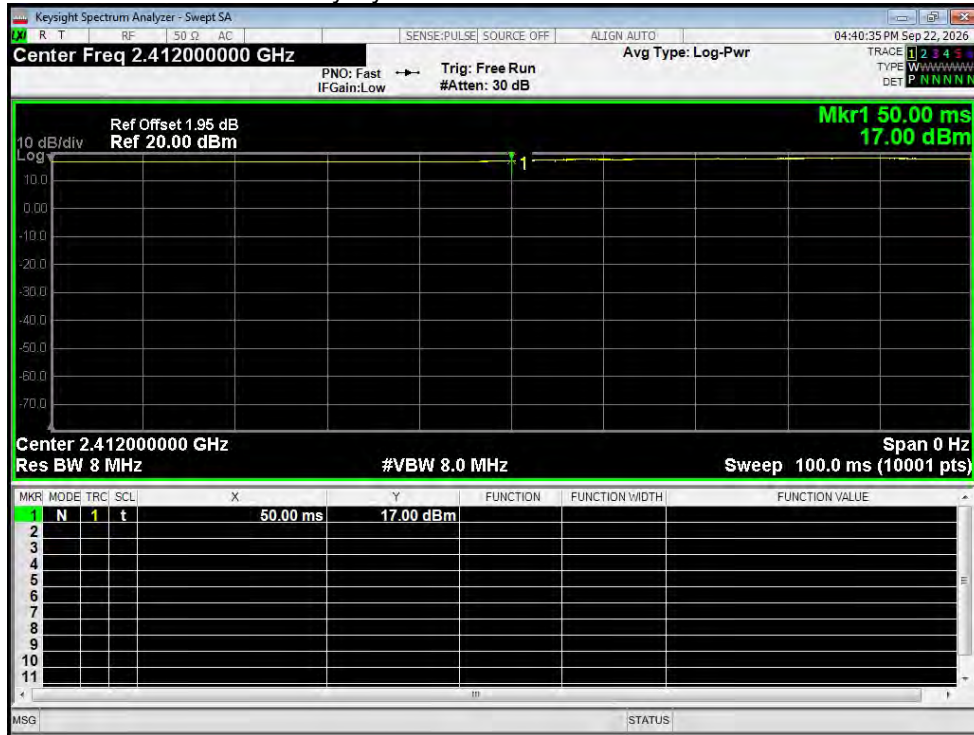
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	100	0
NVNT	b	2437	Ant1	100	0
NVNT	b	2462	Ant1	100	0
NVNT	g	2412	Ant1	100	0
NVNT	g	2437	Ant1	100	0
NVNT	g	2462	Ant1	100	0
NVNT	n20	2412	Ant1	100	0
NVNT	n20	2437	Ant1	100	0
NVNT	n20	2462	Ant1	100	0
NVNT	n40	2422	Ant1	100	0
NVNT	n40	2437	Ant1	100	0
NVNT	n40	2452	Ant1	100	0

Note: Duty cycle factor (dB) = $10 * \log (1/ \text{Duty cycle})$

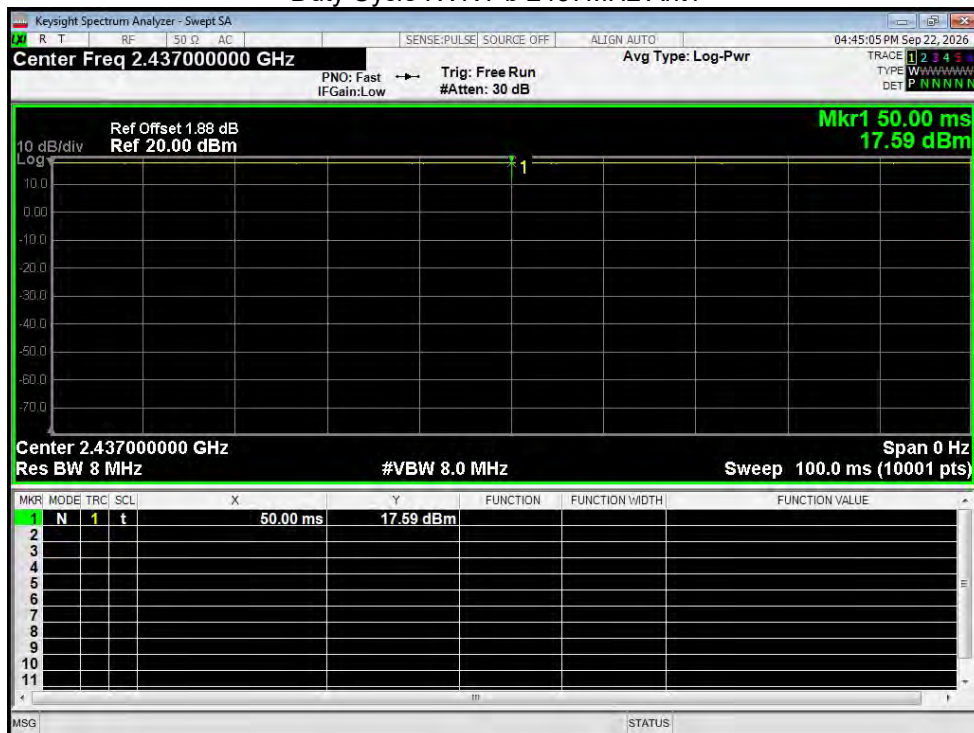


Test plot as follows:

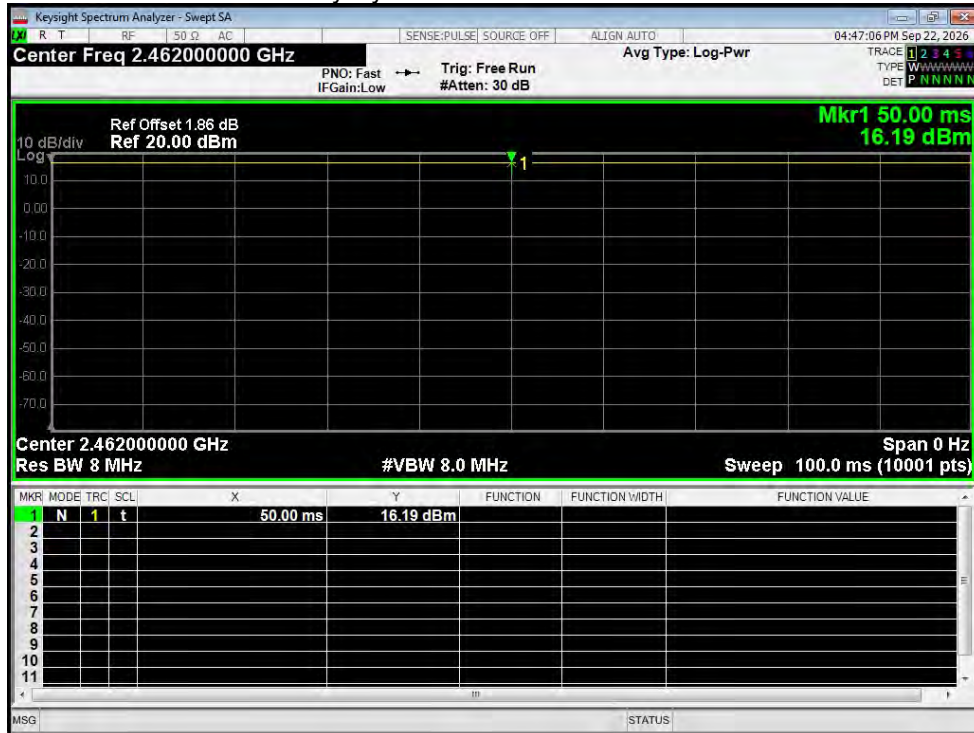
Duty Cycle NVNT b 2412MHz Ant1



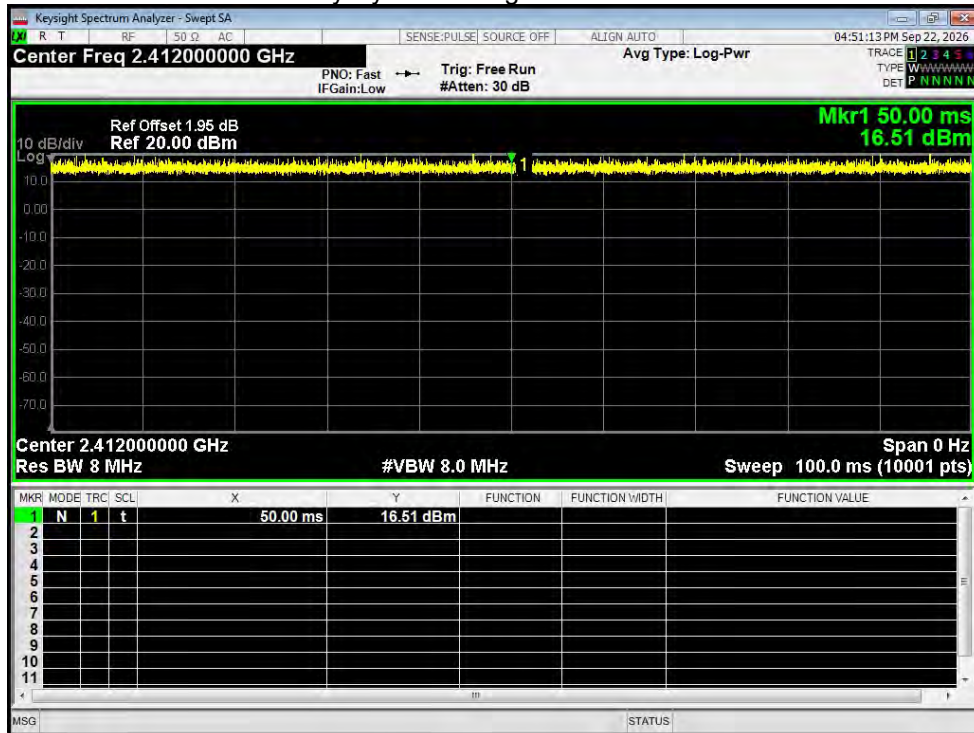
Duty Cycle NVNT b 2437MHz Ant1



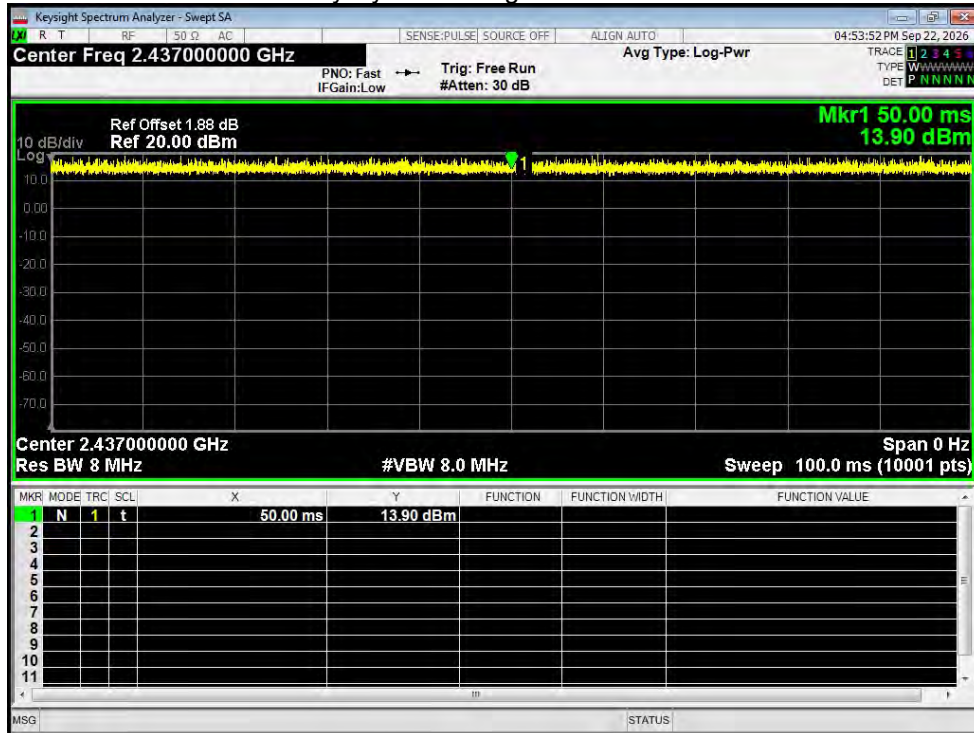
Duty Cycle NVNT b 2462MHz Ant1



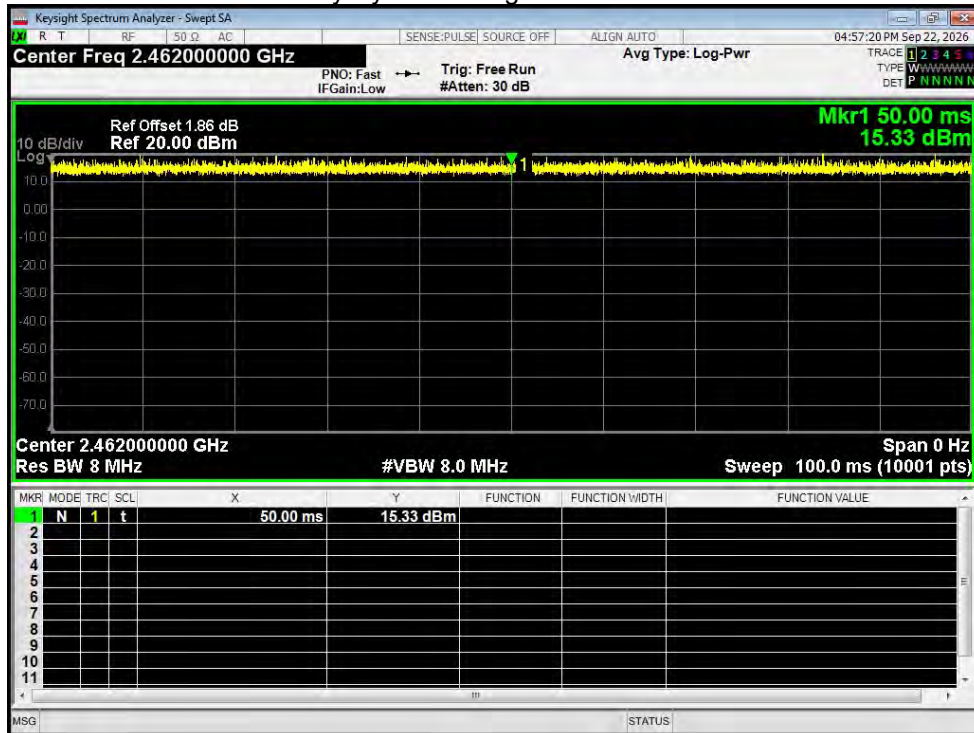
Duty Cycle NVNT g 2412MHz Ant1



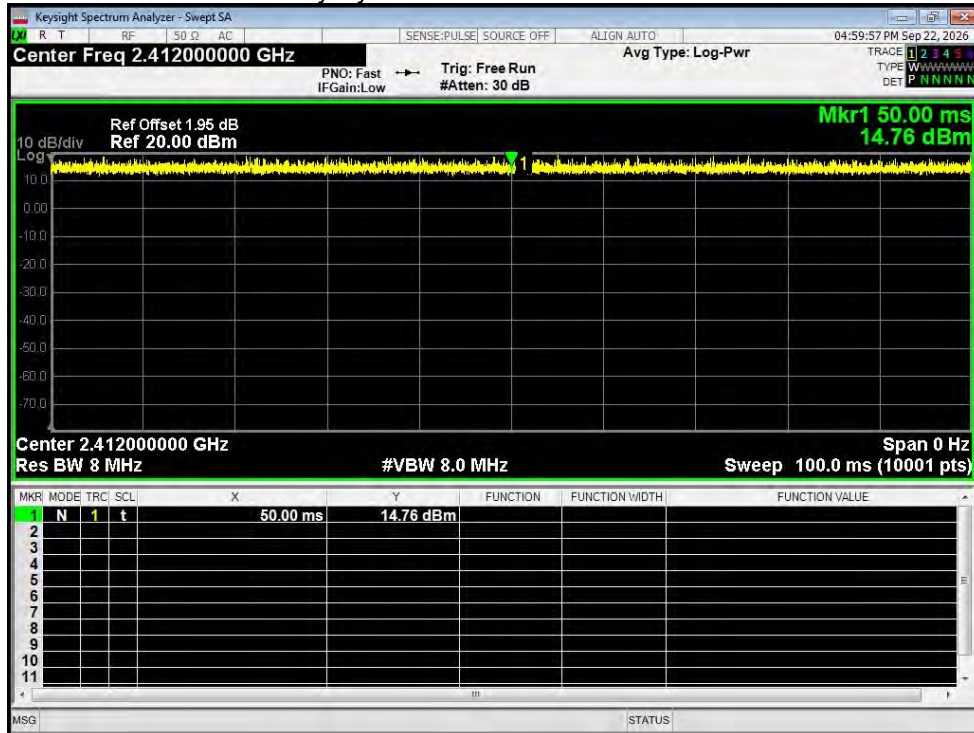
Duty Cycle NVNT g 2437MHz Ant1



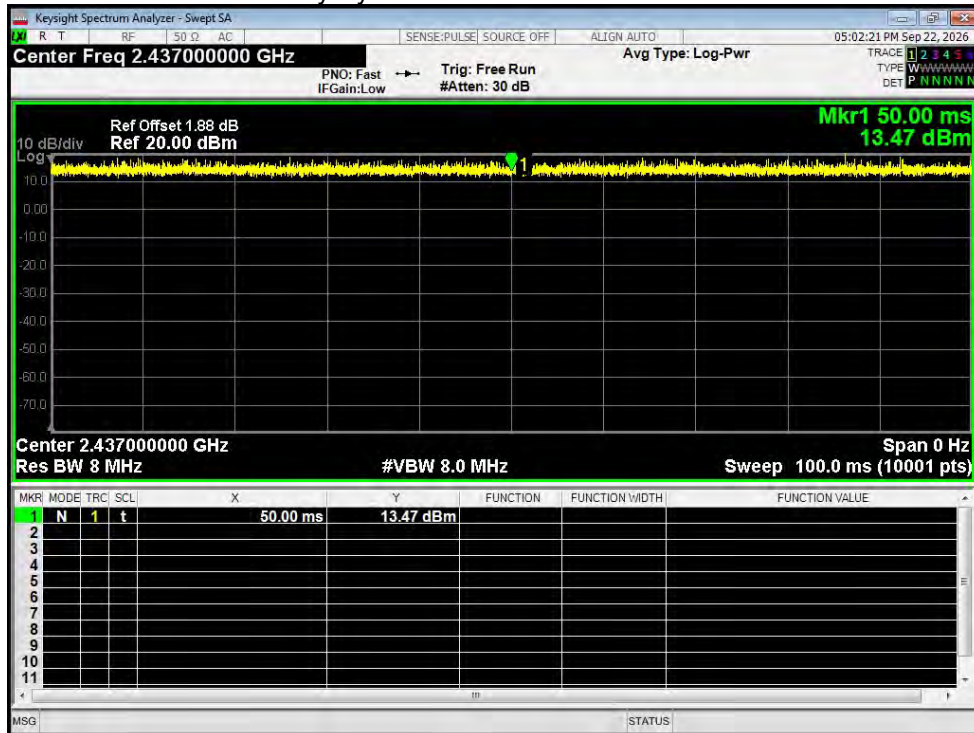
Duty Cycle NVNT g 2462MHz Ant1



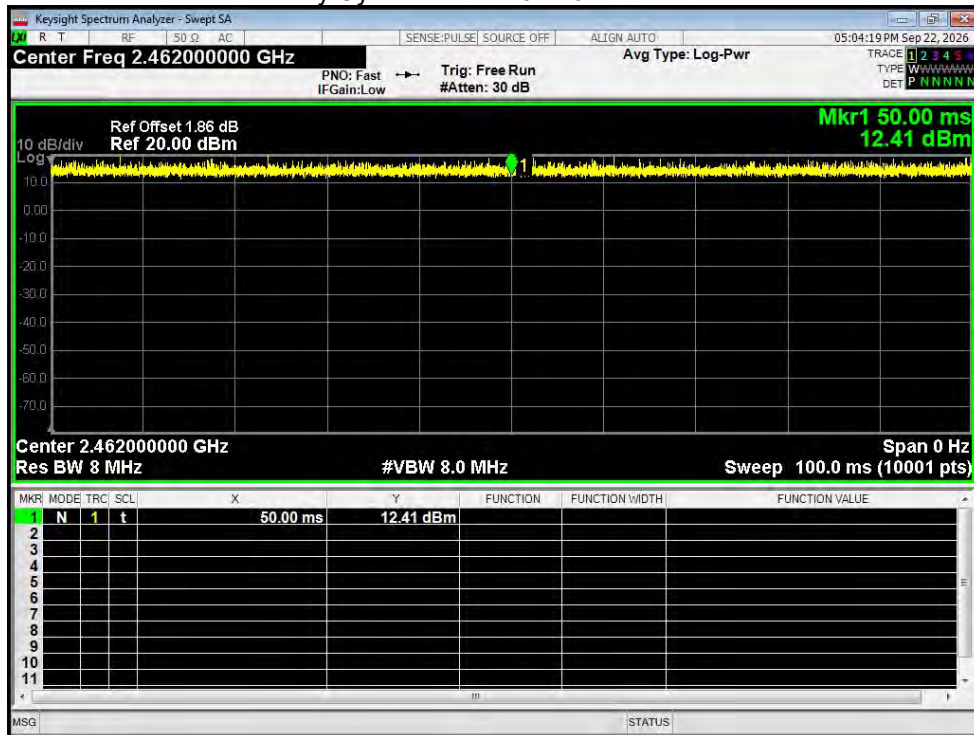
Duty Cycle NVNT n20 2412MHz Ant1



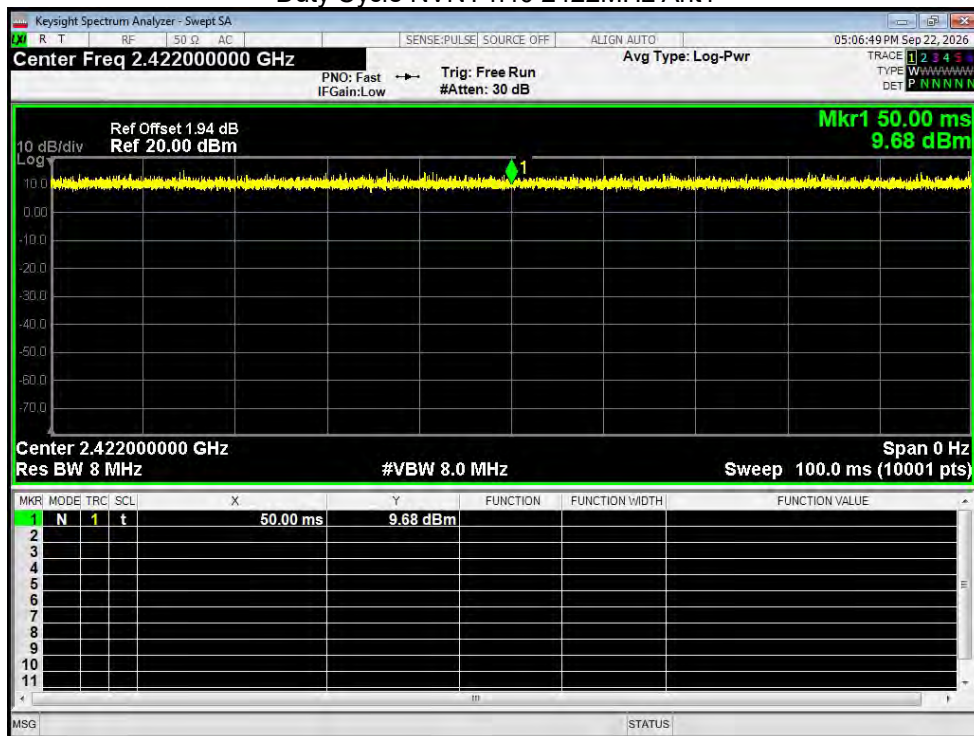
Duty Cycle NVNT n20 2437MHz Ant1



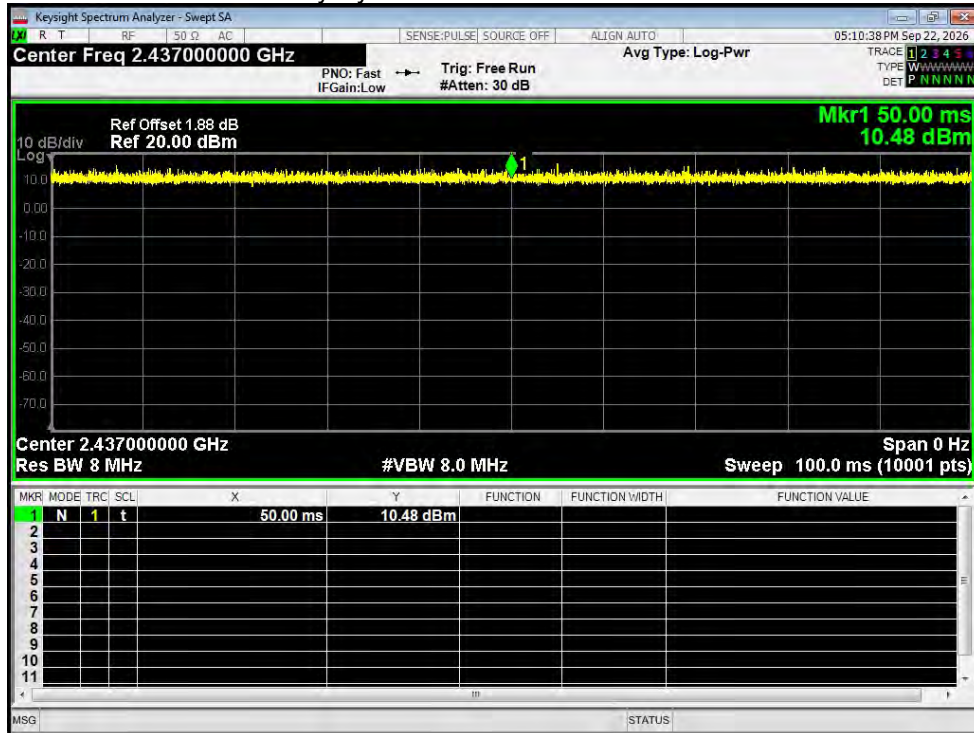
Duty Cycle NVNT n20 2462MHz Ant1



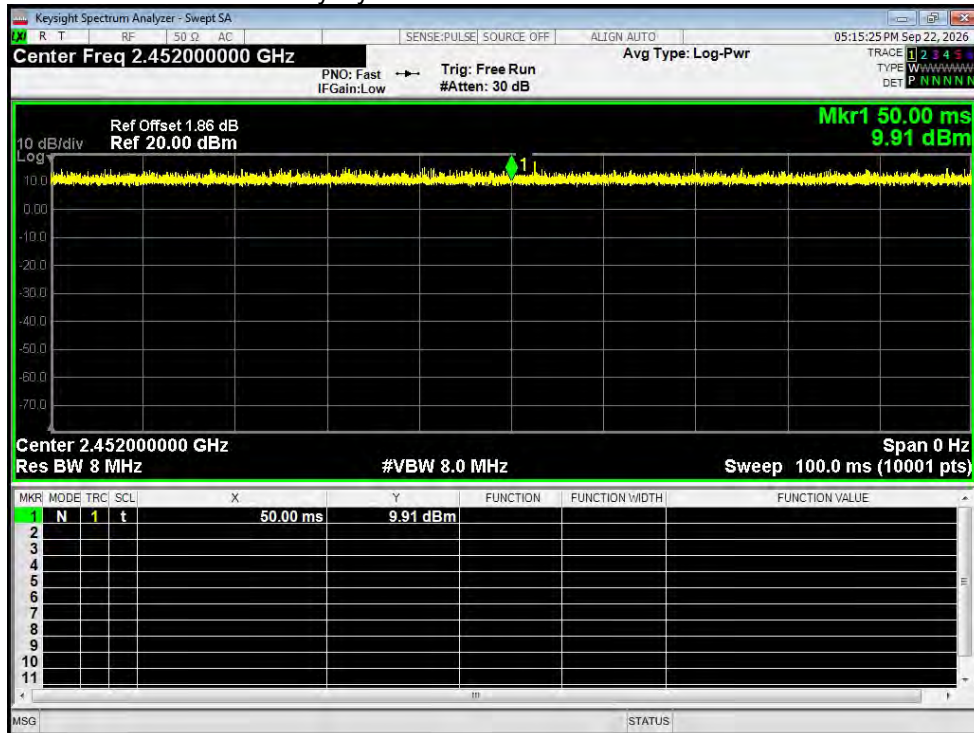
Duty Cycle NVNT n40 2422MHz Ant1



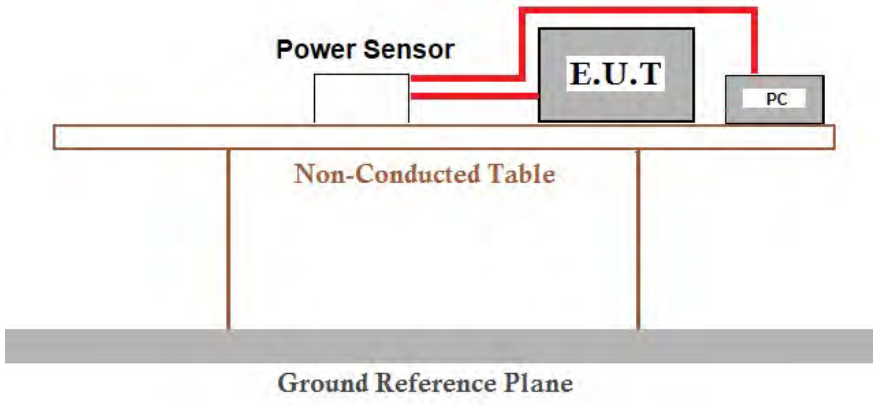
Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



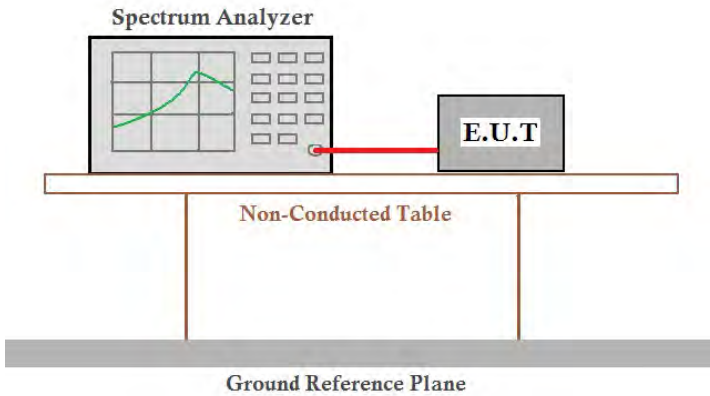
4.4 Conducted Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3)
Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 11.9.1.2 KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm for peak conducted output power
Test setup:	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test environment:	Temp.: 24.2°C Humid.: 53%RH
Test voltage:	DC 5V from adapter
Test results:	Pass

Measurement Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	12.35	30	Pass
NVNT	b	2437	12.24	30	Pass
NVNT	b	2462	11.96	30	Pass
NVNT	g	2412	5.66	30	Pass
NVNT	g	2437	6.79	30	Pass
NVNT	g	2462	6.42	30	Pass
NVNT	n20	2412	5.48	30	Pass
NVNT	n20	2437	6.85	30	Pass
NVNT	n20	2462	6.25	30	Pass
NVNT	n40	2422	10.58	30	Pass
NVNT	n40	2437	11.43	30	Pass
NVNT	n40	2452	11.68	30	Pass

4.5 6dB Bandwidth

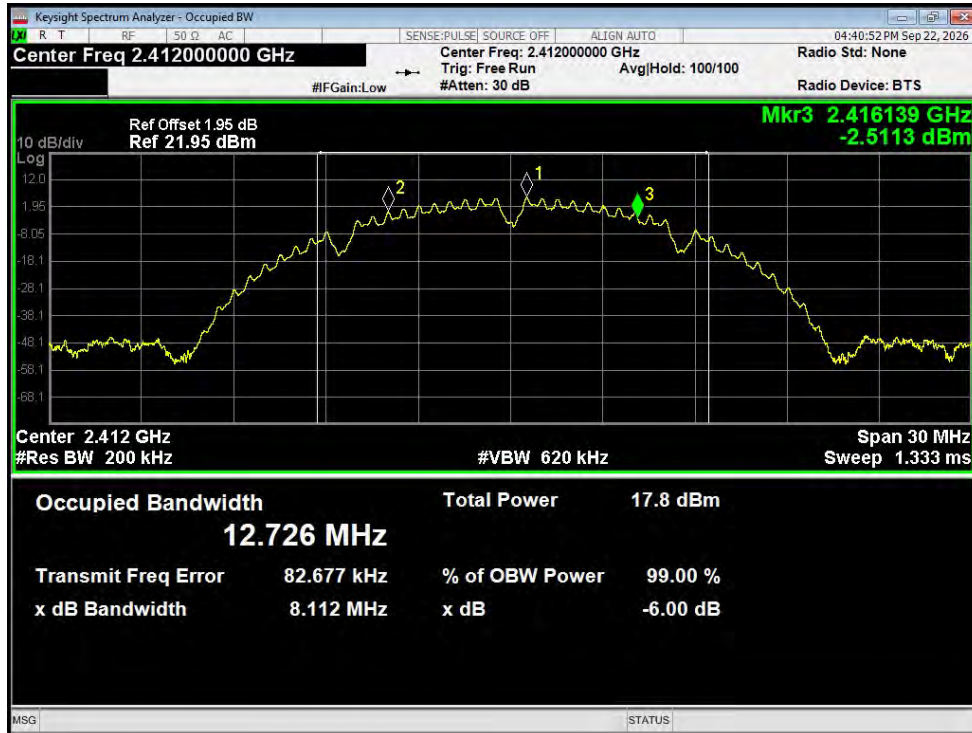
Test Requirement :	47CFR Part 15.247 (a)(2)	
Test Method :	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§11.8.2	
Limit:	>500KHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 5V from adapter	
Test results:	Pass	

Measurement Result

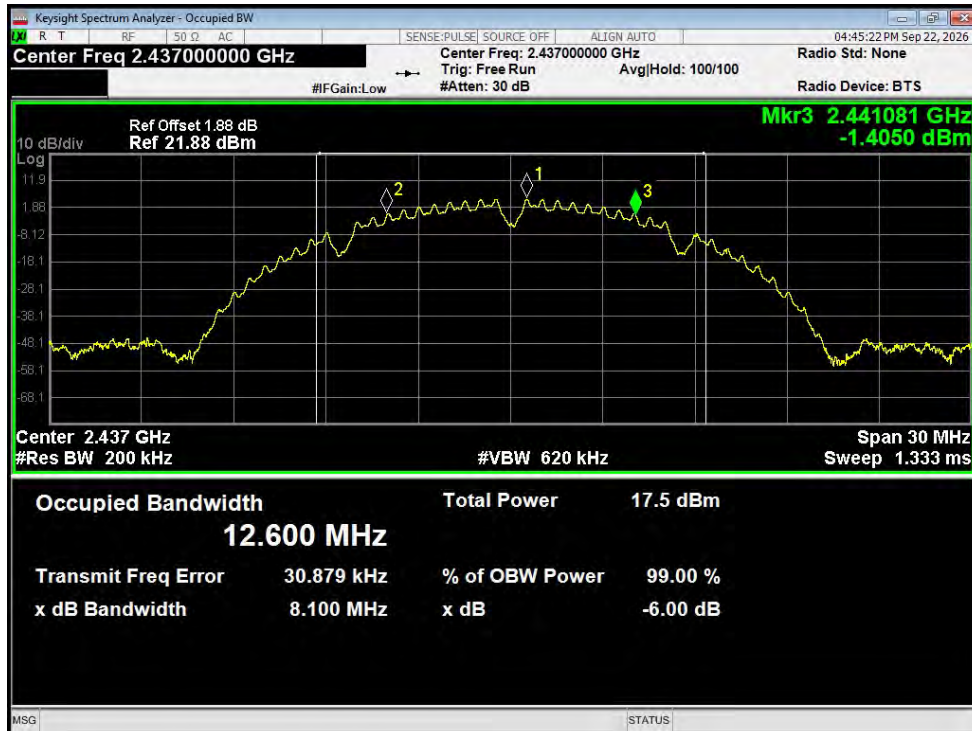
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.112	0.5	Pass
NVNT	b	2437	8.100	0.5	Pass
NVNT	b	2462	8.118	0.5	Pass
NVNT	g	2412	15.931	0.5	Pass
NVNT	g	2437	15.891	0.5	Pass
NVNT	g	2462	15.965	0.5	Pass
NVNT	n20	2412	17.19	0.5	Pass
NVNT	n20	2437	17.22	0.5	Pass
NVNT	n20	2462	17.28	0.5	Pass
NVNT	n40	2422	35.37	0.5	Pass
NVNT	n40	2437	31.19	0.5	Pass
NVNT	n40	2452	35.03	0.5	Pass

-6 Bandwidth dB Test plot as follows

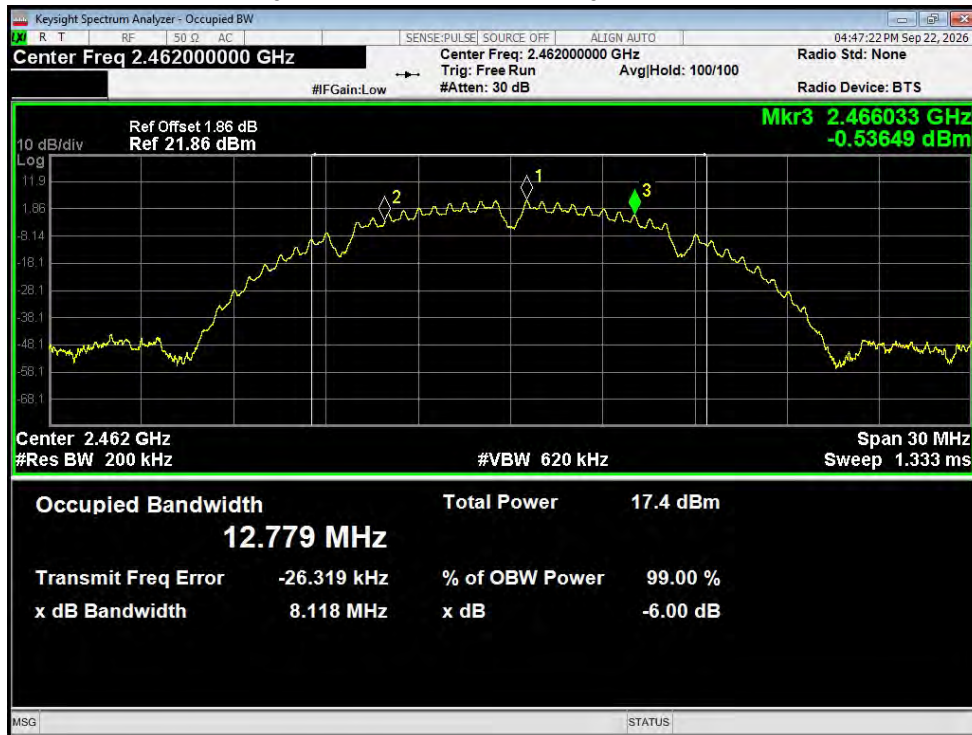
-6dB Bandwidth NVNT b 2412MHz Ant1



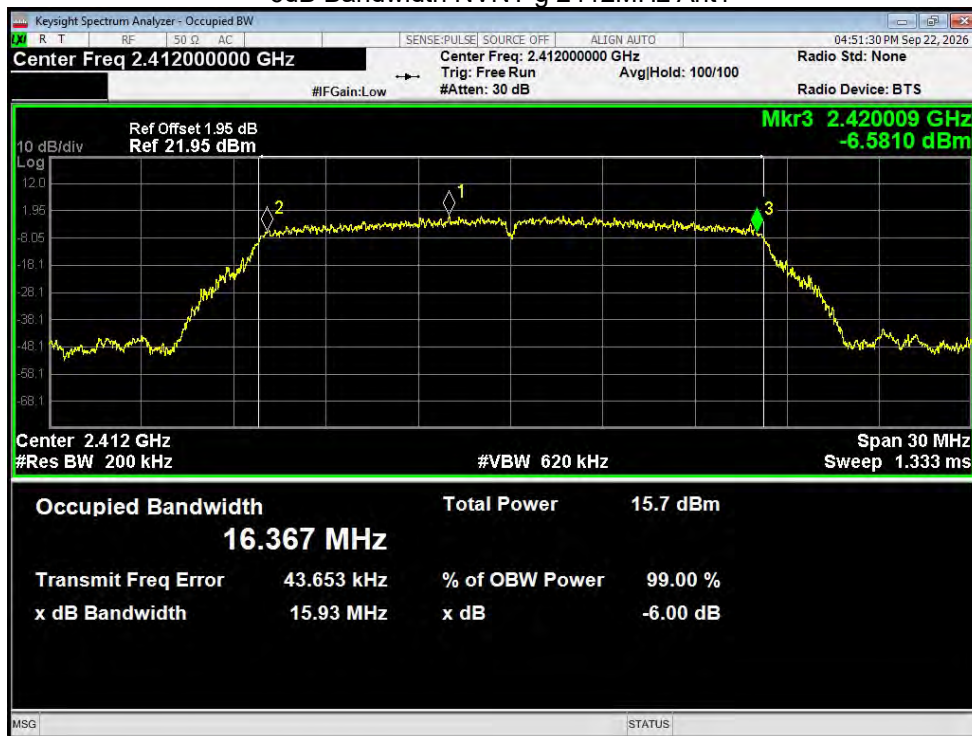
-6dB Bandwidth NVNT b 2437MHz Ant1



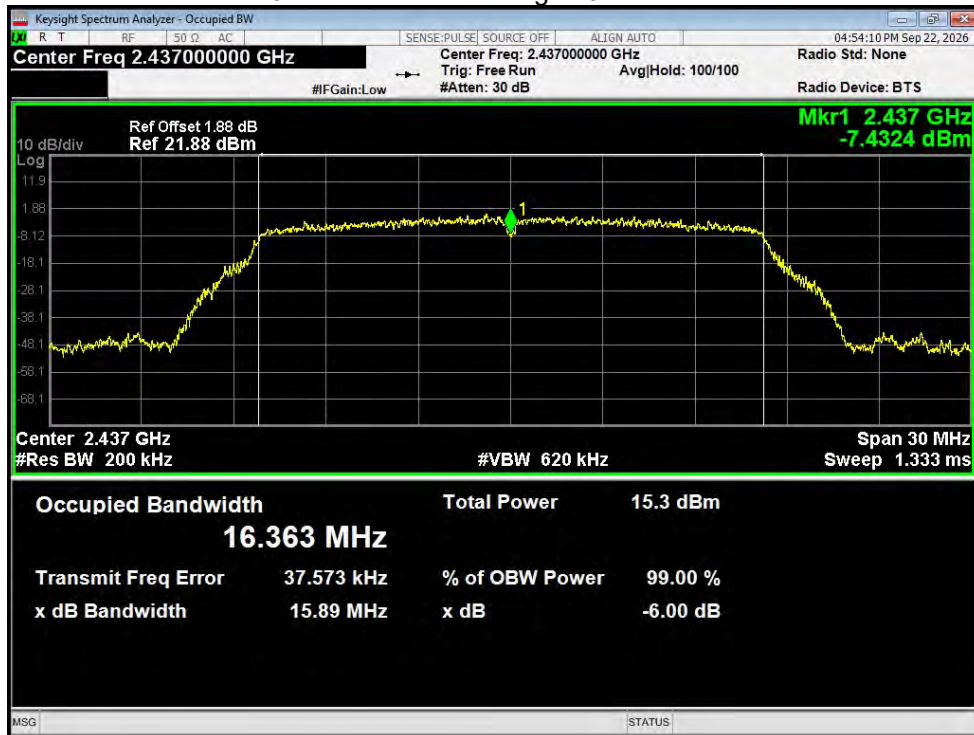
-6dB Bandwidth NVNT b 2462MHz Ant1



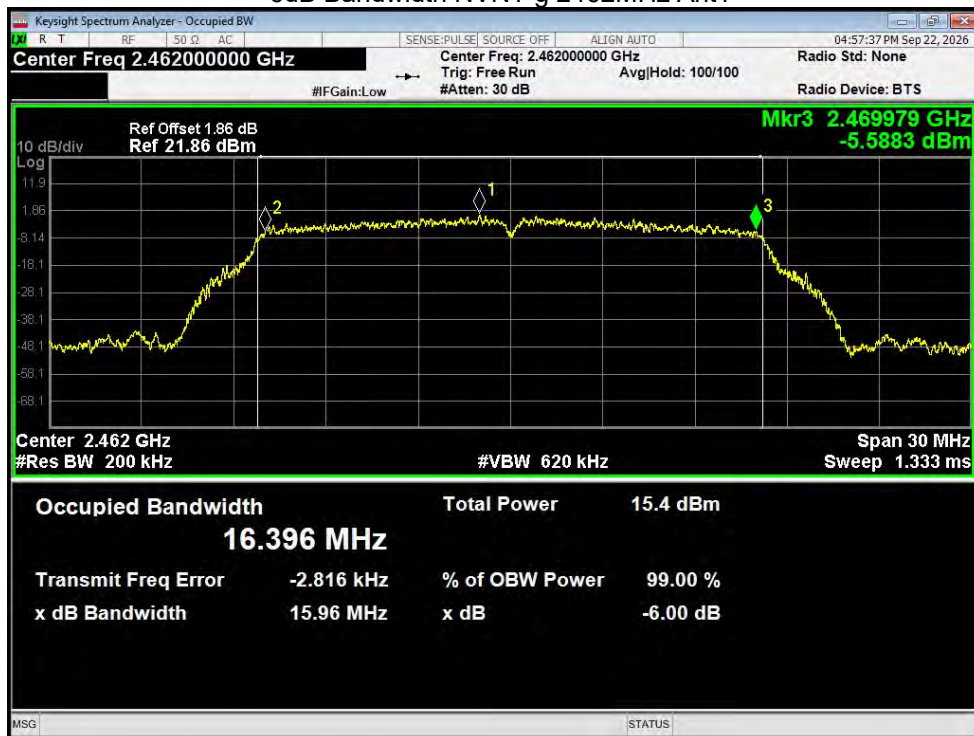
-6dB Bandwidth NVNT g 2412MHz Ant1



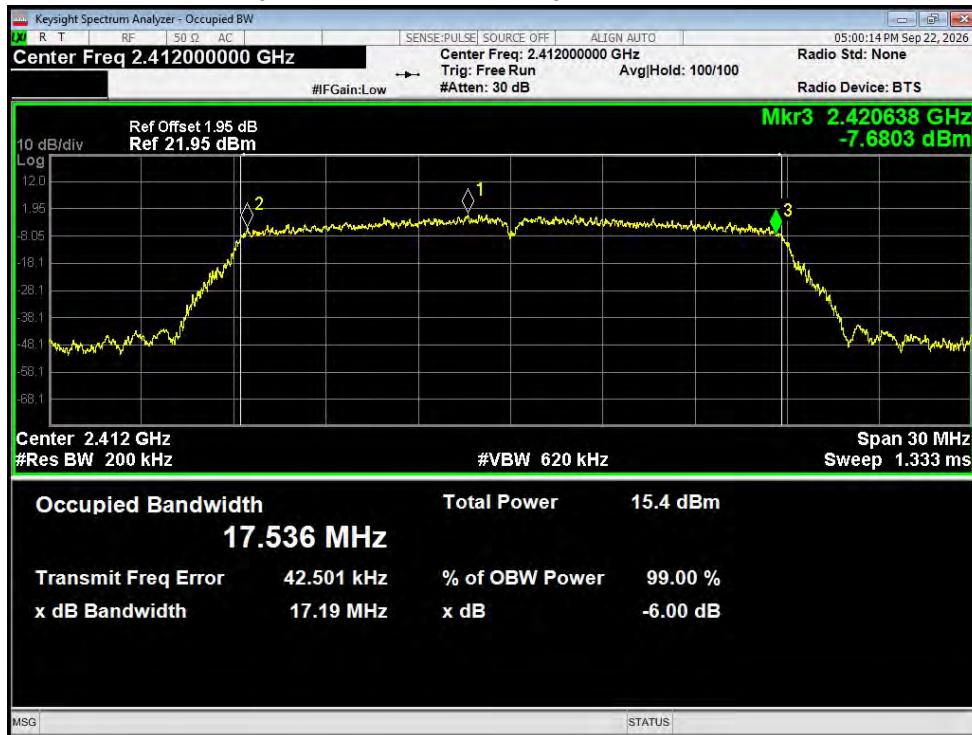
-6dB Bandwidth NVNT g 2437MHz Ant1



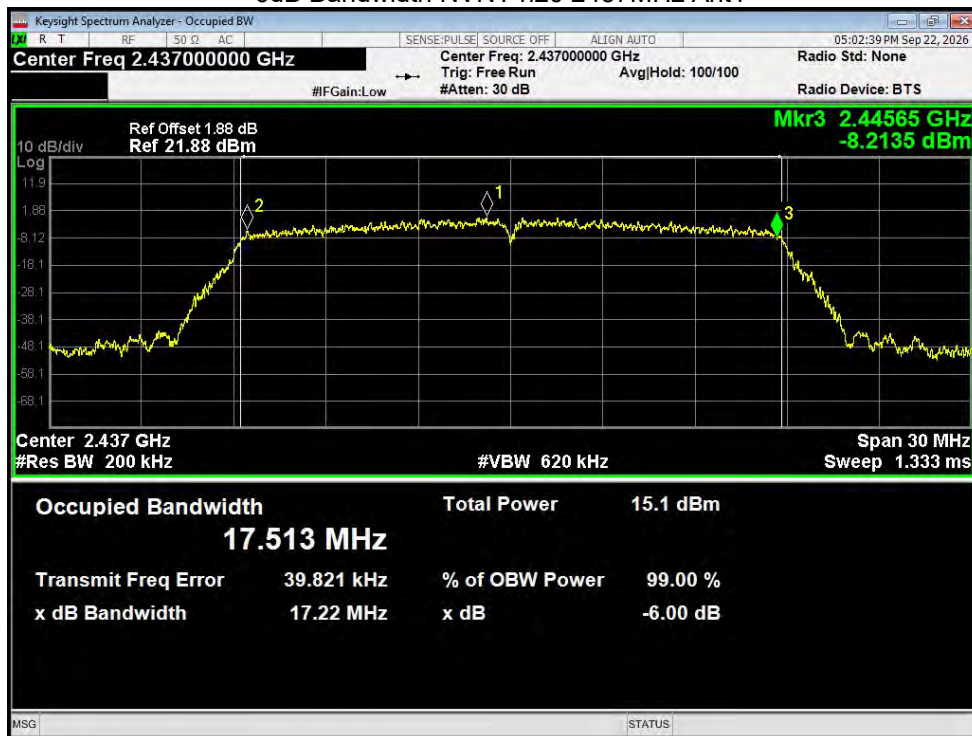
-6dB Bandwidth NVNT g 2462MHz Ant1



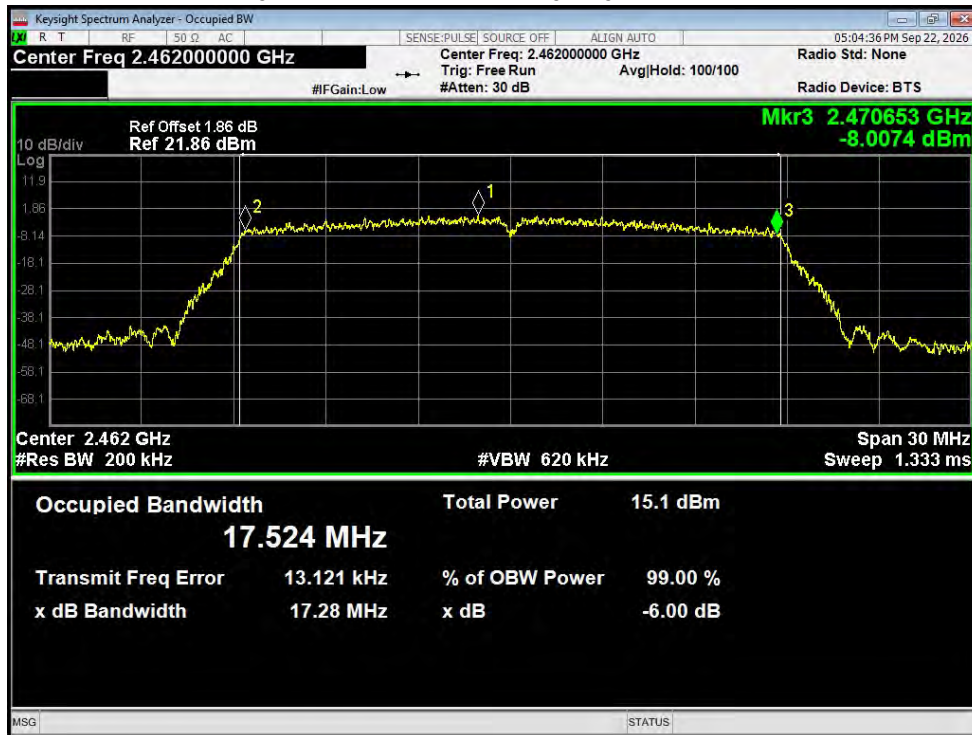
-6dB Bandwidth NVNT n20 2412MHz Ant1



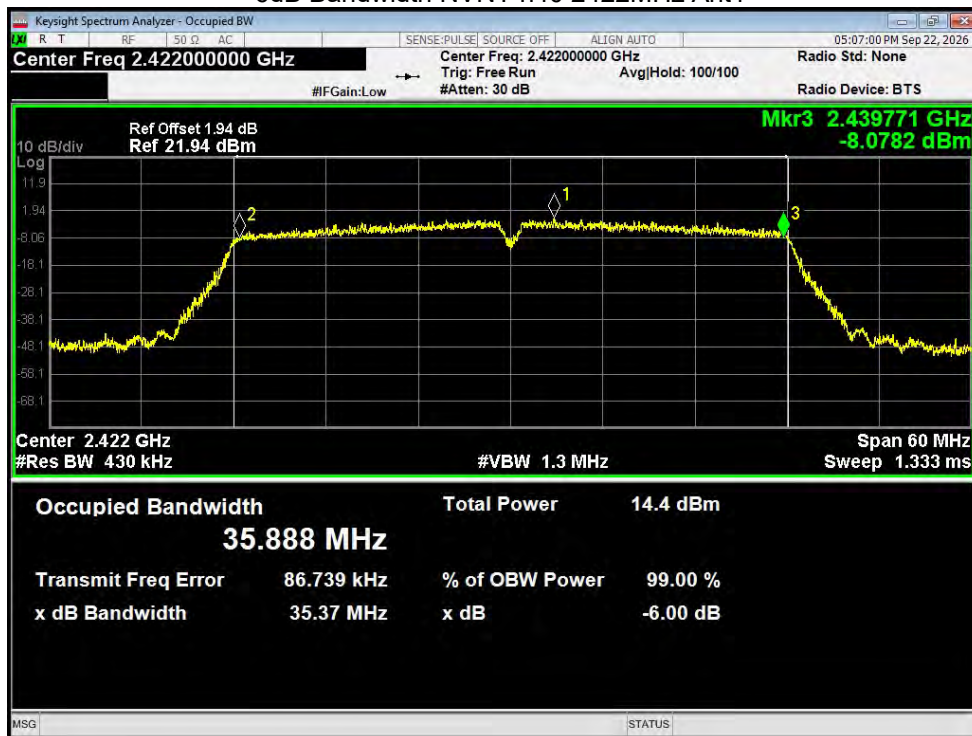
-6dB Bandwidth NVNT n20 2437MHz Ant1



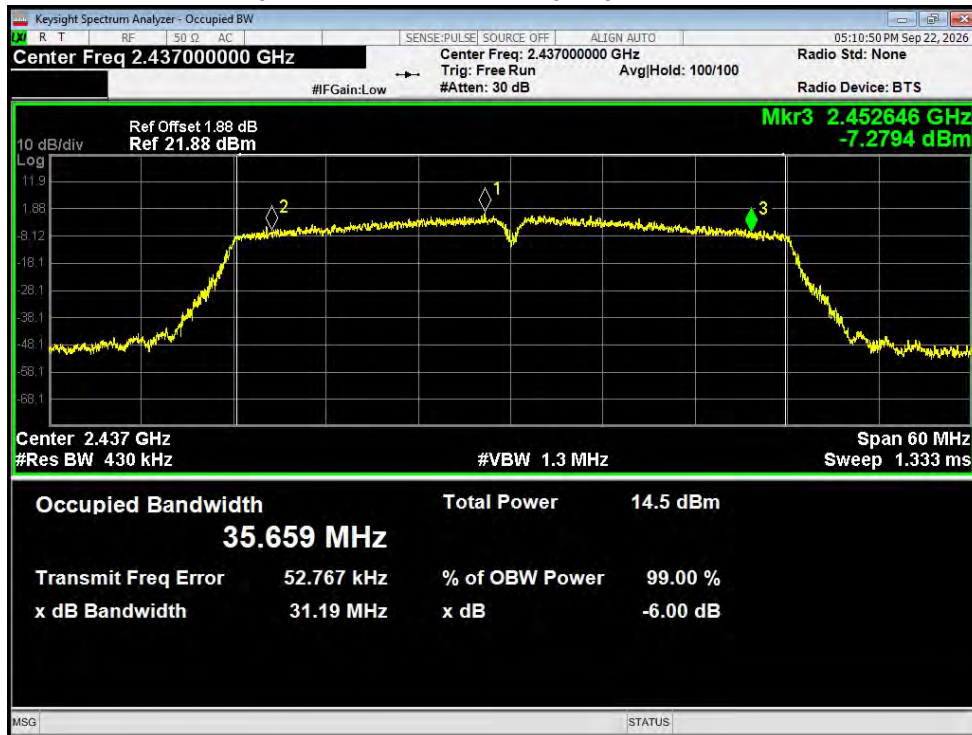
-6dB Bandwidth NVNT n20 2462MHz Ant1



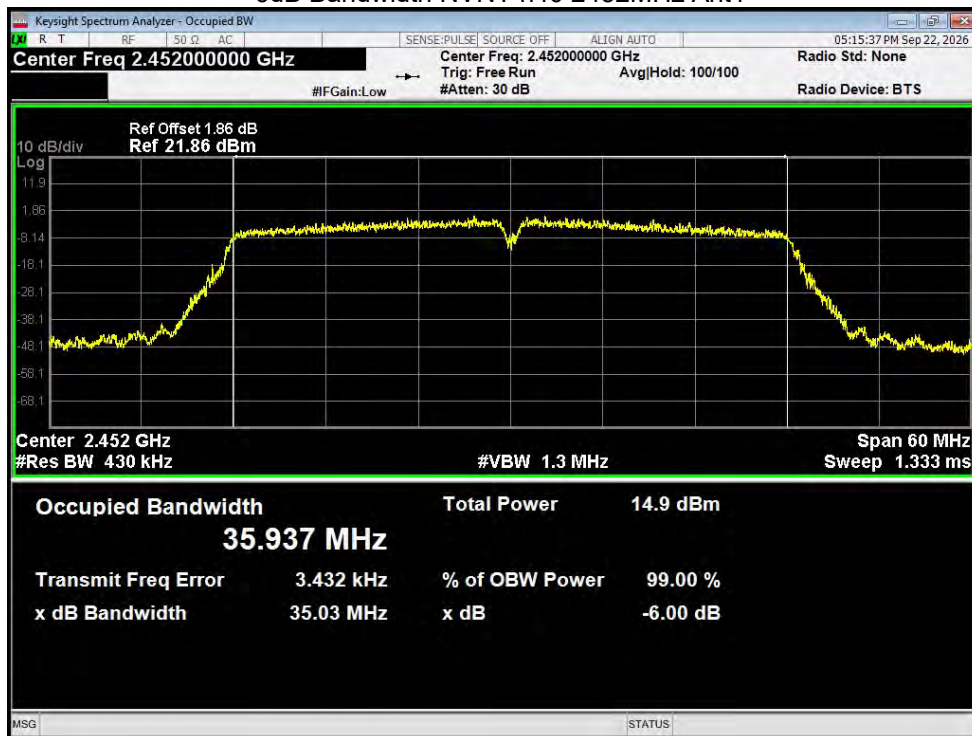
-6dB Bandwidth NVNT n40 2422MHz Ant1



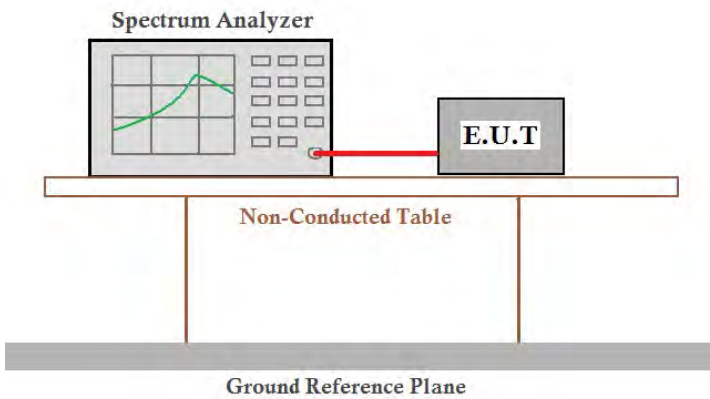
-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



4.6 Power Spectral Density

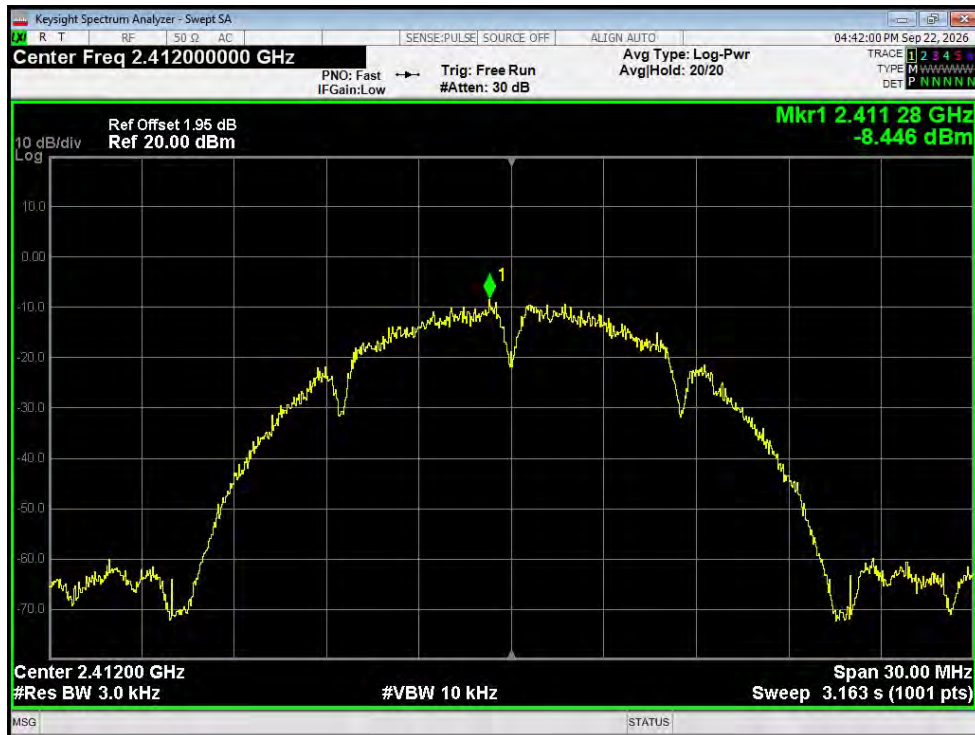
Test Requirement:	47CFR Part 15.247 (e)	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 11.10.2 KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	8dBm/3kHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 5V from adapter	
Test results:	Pass	

Measurement Result

Condition	Mode	Frequency (MHz)	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	-8.446	8	Pass
NVNT	b	2437	-8.639	8	Pass
NVNT	b	2462	-9.729	8	Pass
NVNT	g	2412	-14.042	8	Pass
NVNT	g	2437	-14.258	8	Pass
NVNT	g	2462	-14.033	8	Pass
NVNT	n20	2412	-14.252	8	Pass
NVNT	n20	2437	-13.532	8	Pass
NVNT	n20	2462	-14.239	8	Pass
NVNT	n40	2422	-18.317	8	Pass
NVNT	n40	2437	-17.338	8	Pass
NVNT	n40	2452	-17.862	8	Pass

Test plot as follows:

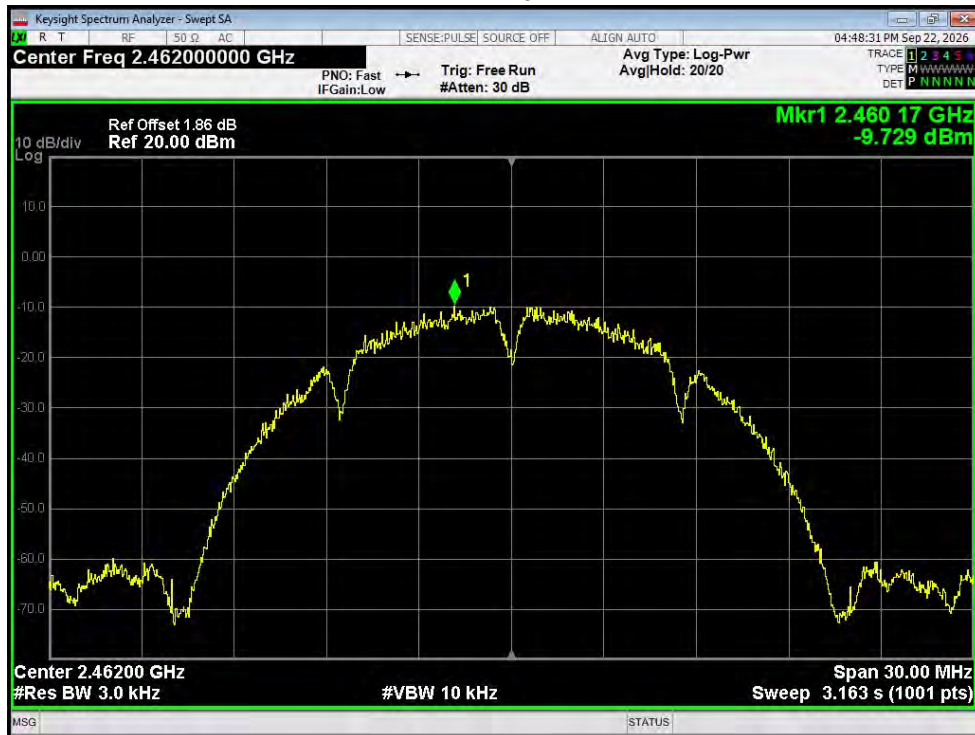
PSD NVNT b 2412MHz Ant1



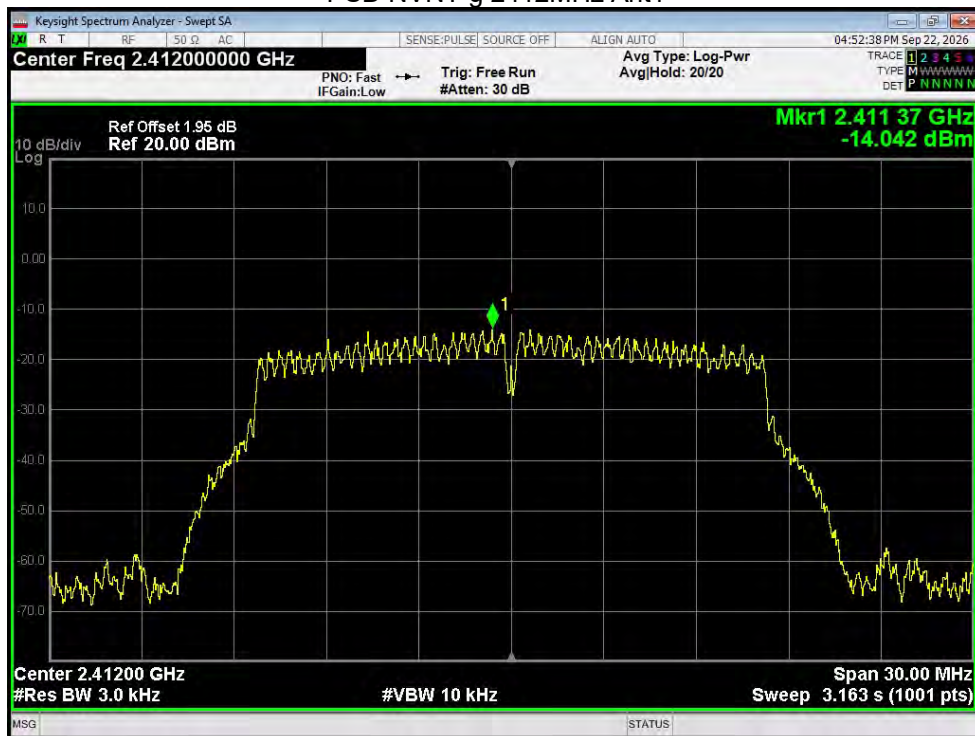
PSD NVNT b 2437MHz Ant1



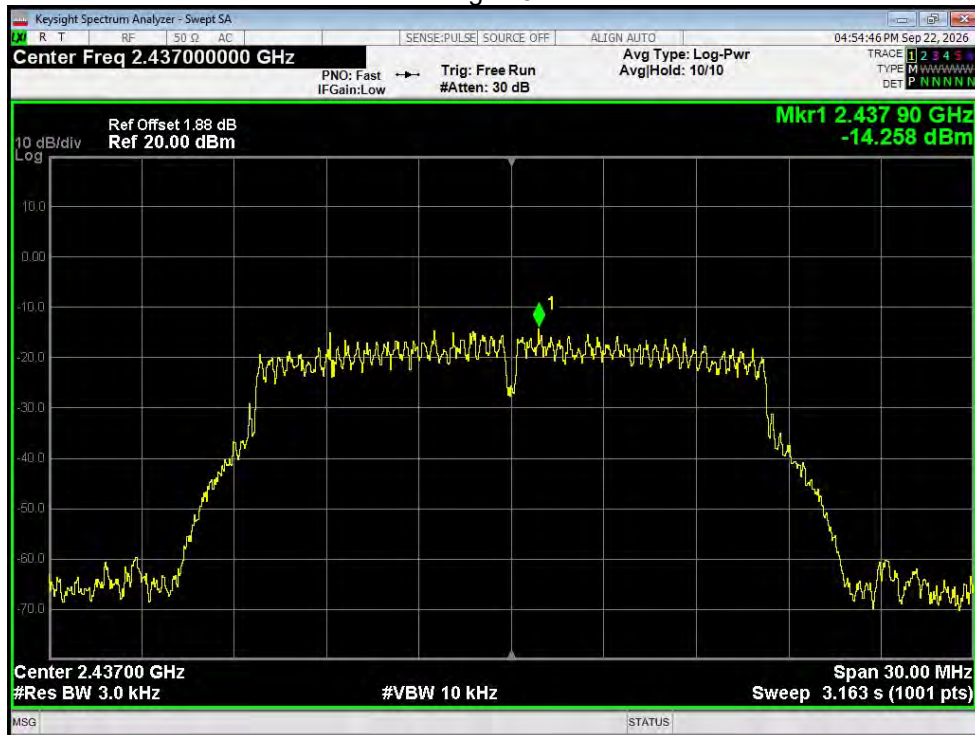
PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



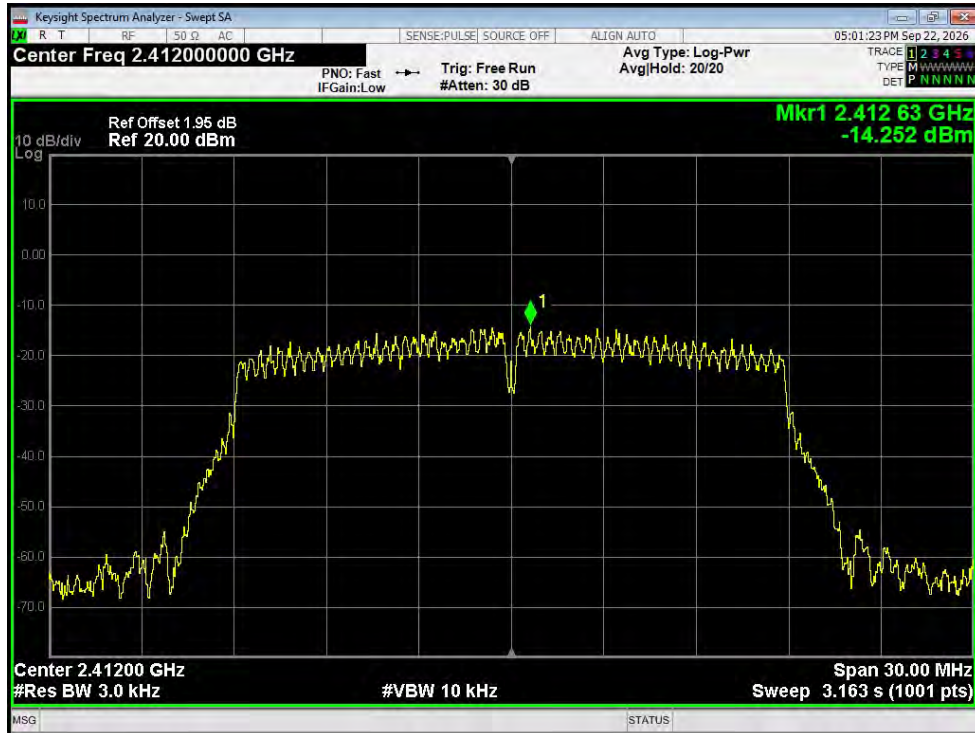
PSD NVNT g 2437MHz Ant1



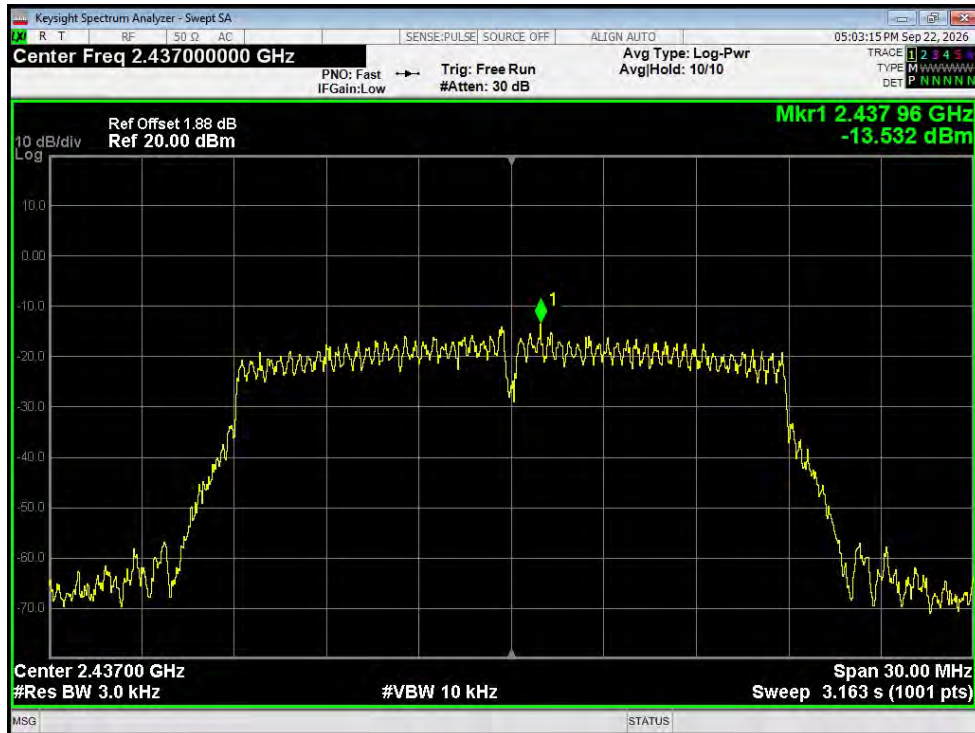
PSD NVNT g 2462MHz Ant1



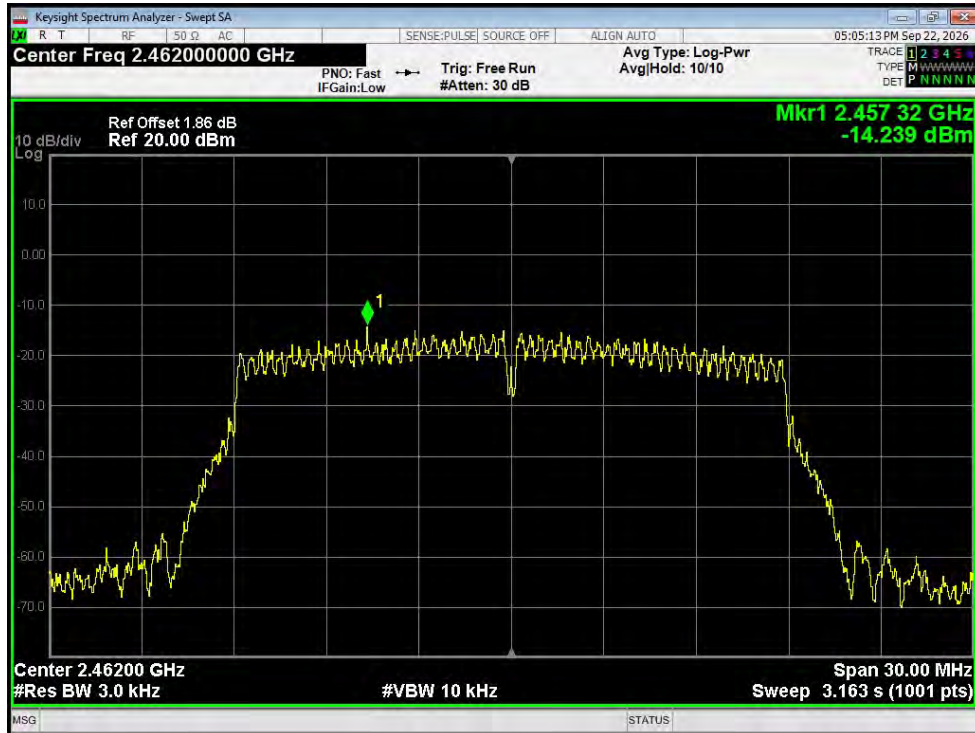
PSD NVNT n20 2412MHz Ant1



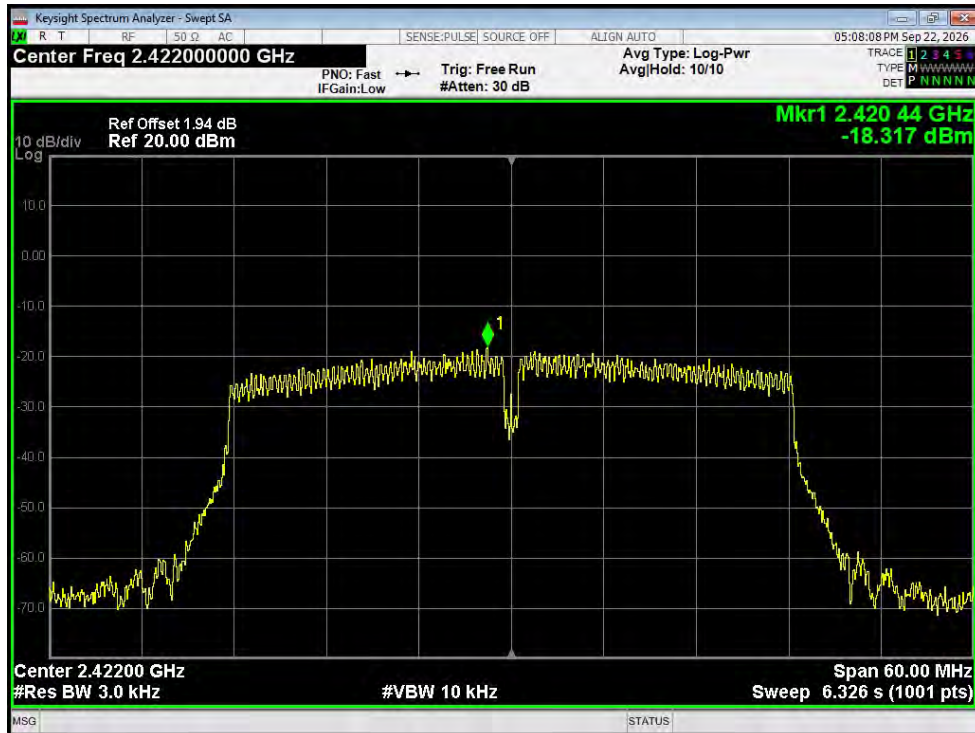
PSD NVNT n20 2437MHz Ant1



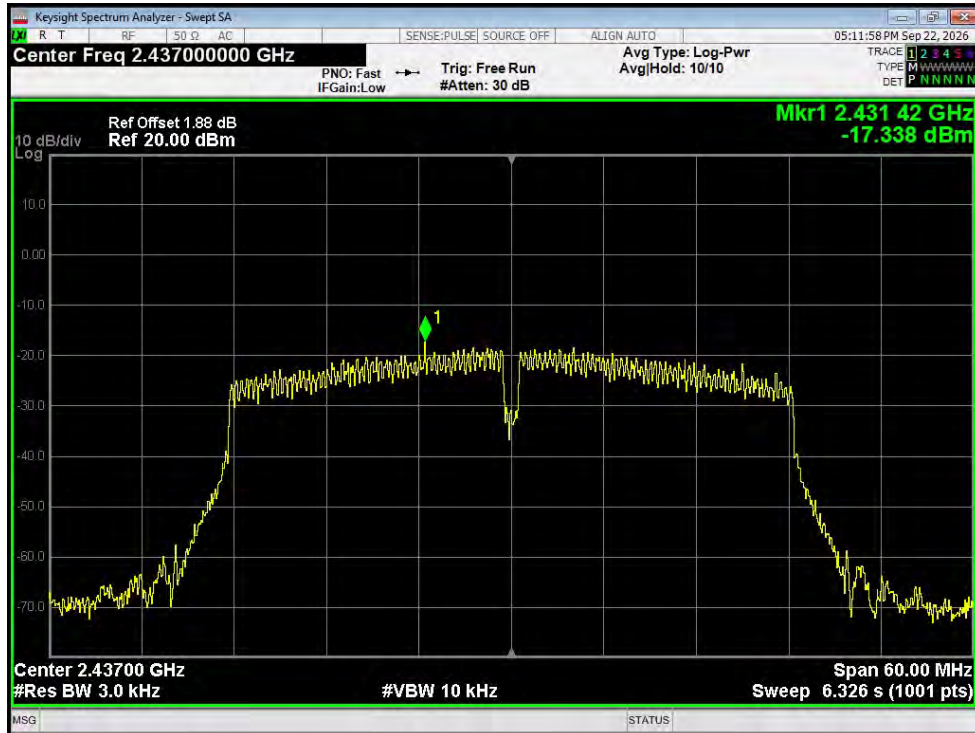
PSD NVNT n20 2462MHz Ant1



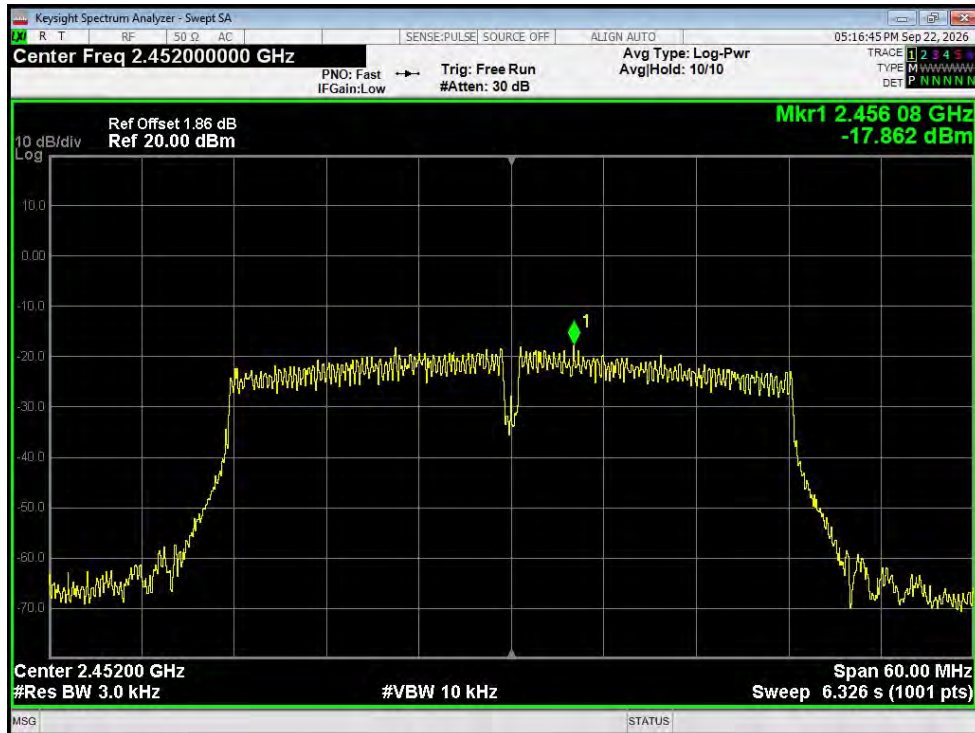
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1

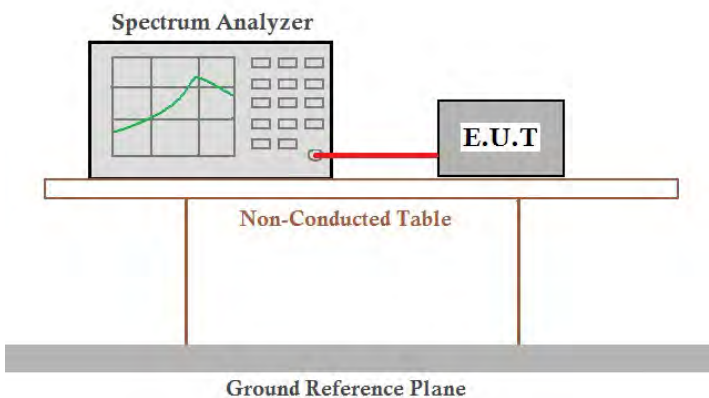


PSD NVNT n40 2452MHz Ant1



4.7 Band edges

Conducted Emission Method

Test Requirement:	47CFR Part 15.247 (d)	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 6.10.2	
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.	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 5V from adapter	
Test results:	Pass	

Band Edge

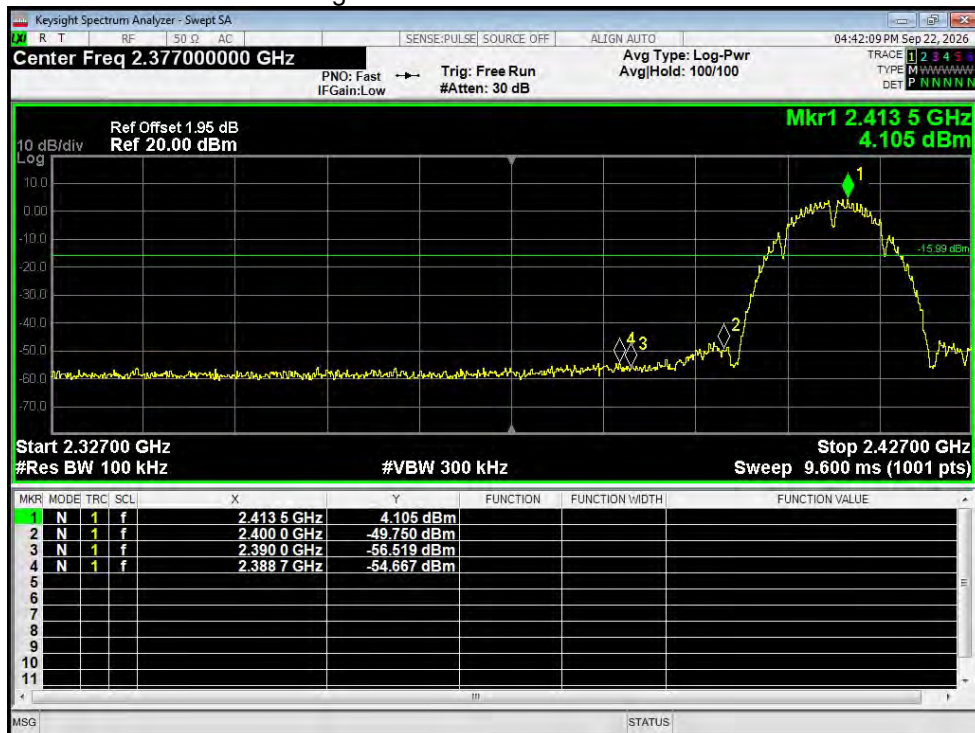
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.68	-20	Pass
NVNT	b	2462	Ant1	-59.41	-20	Pass
NVNT	g	2412	Ant1	-49.78	-20	Pass
NVNT	g	2462	Ant1	-50.55	-20	Pass
NVNT	n20	2412	Ant1	-47.76	-20	Pass
NVNT	n20	2462	Ant1	-50.85	-20	Pass
NVNT	n40	2422	Ant1	-43.87	-20	Pass
NVNT	n40	2452	Ant1	-45.75	-20	Pass

Test plot as follows:

Band Edge NVNT b 2412MHz Ant1 Ref



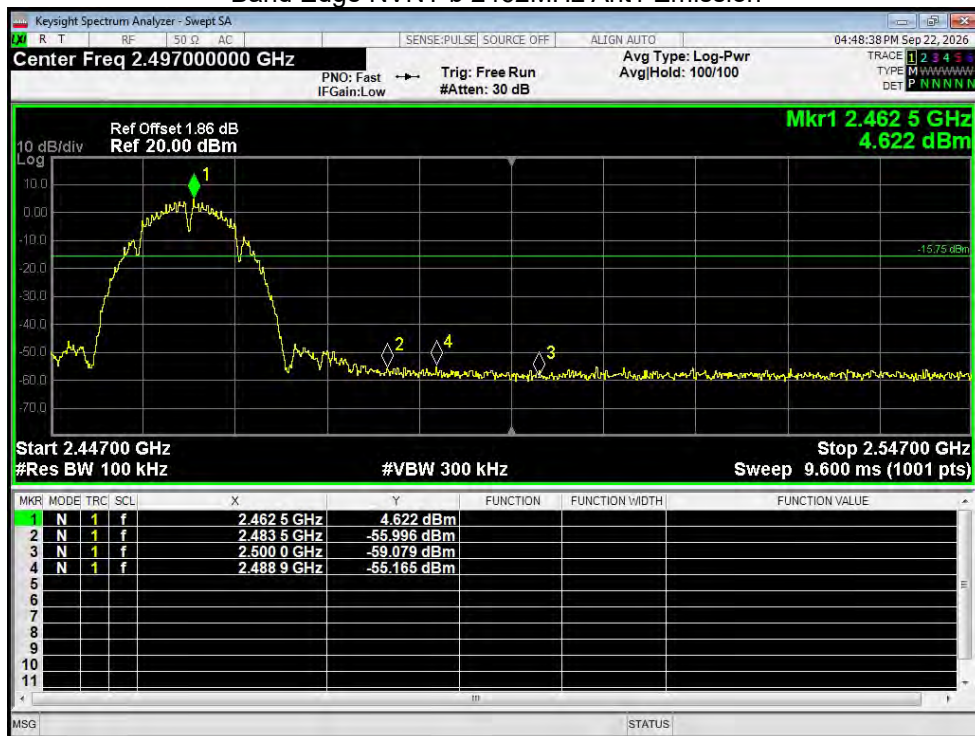
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



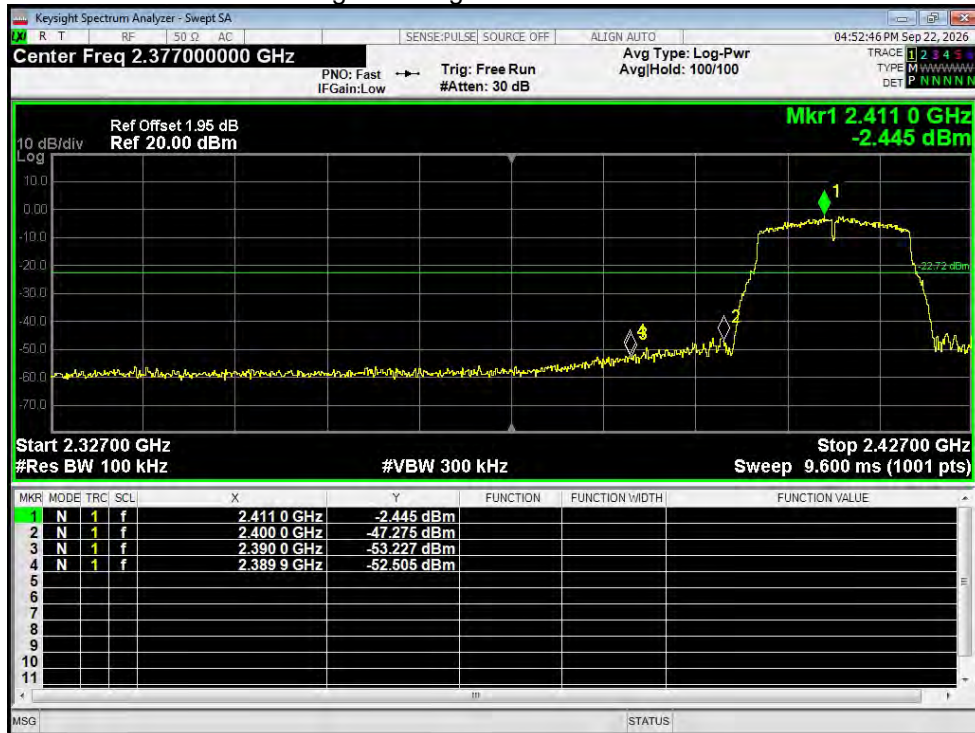
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



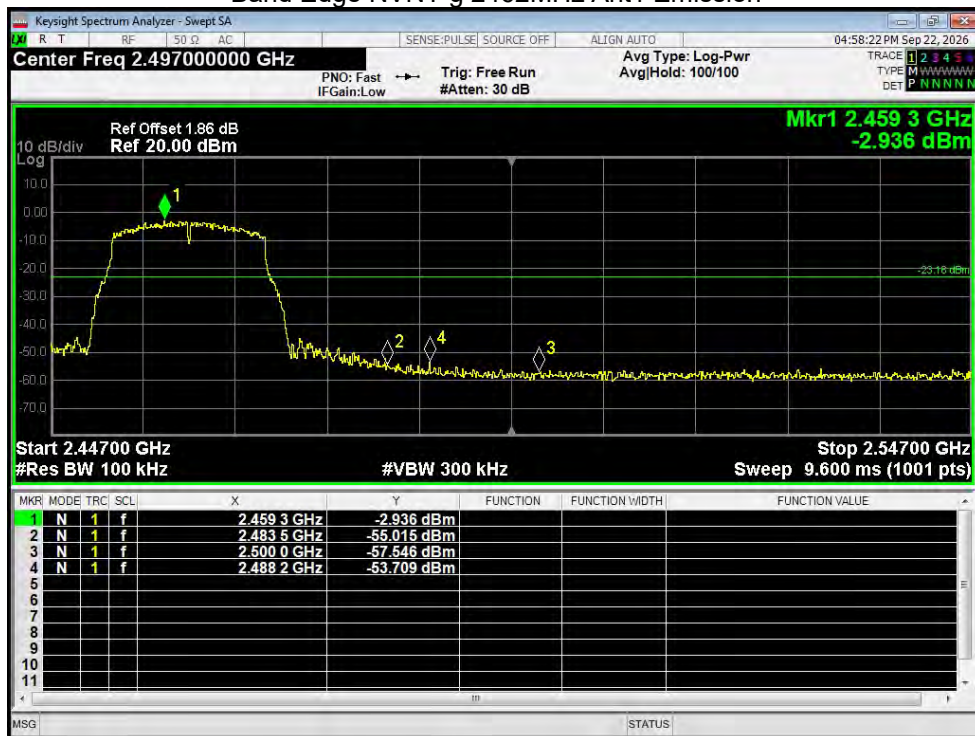
Band Edge NVNT g 2412MHz Ant1 Emission



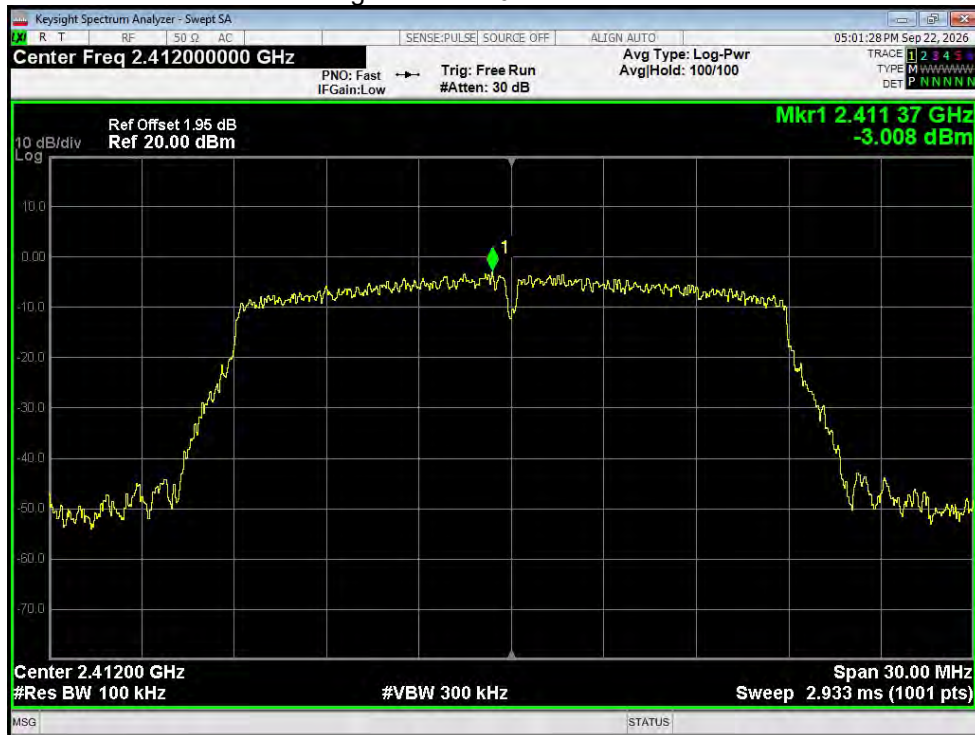
Band Edge NVNT g 2462MHz Ant1 Ref



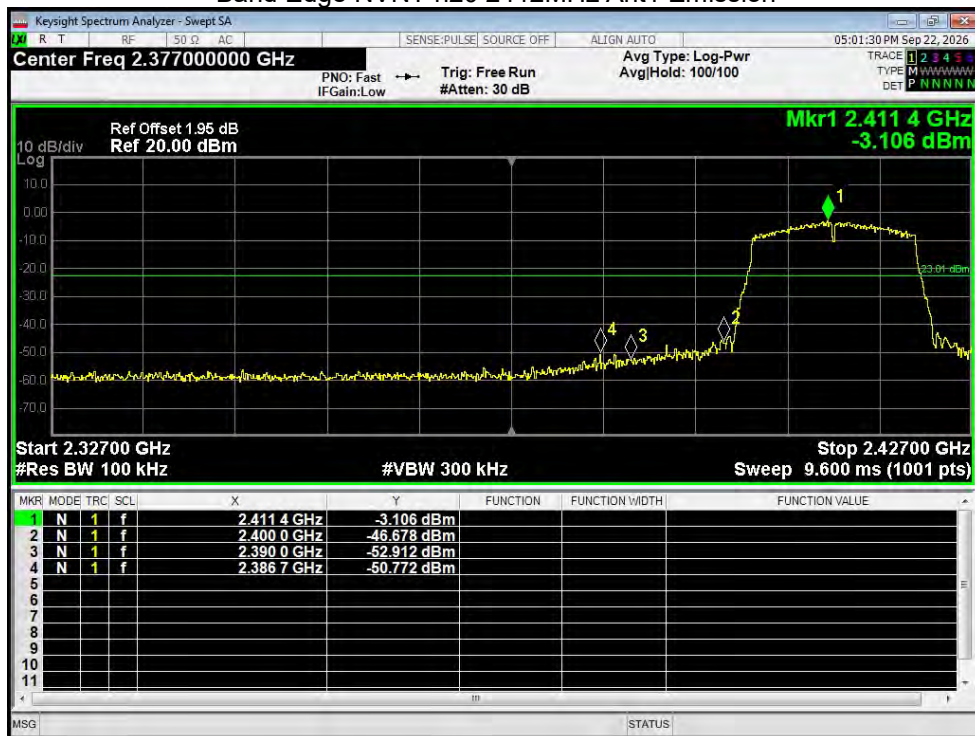
Band Edge NVNT g 2462MHz Ant1 Emission



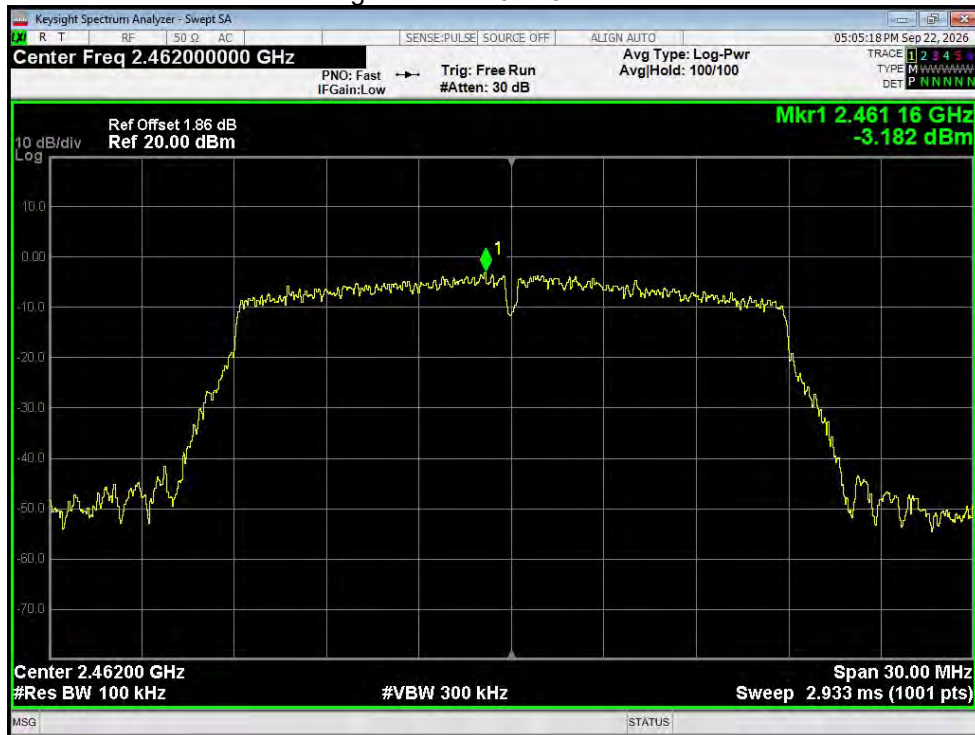
Band Edge NVNT n20 2412MHz Ant1 Ref



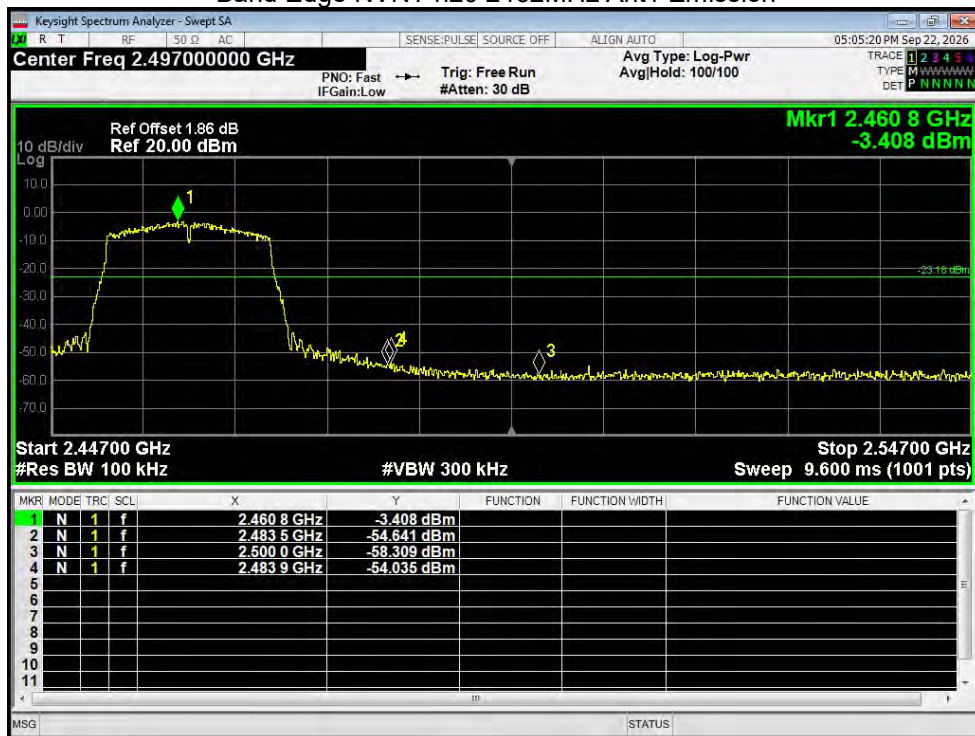
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



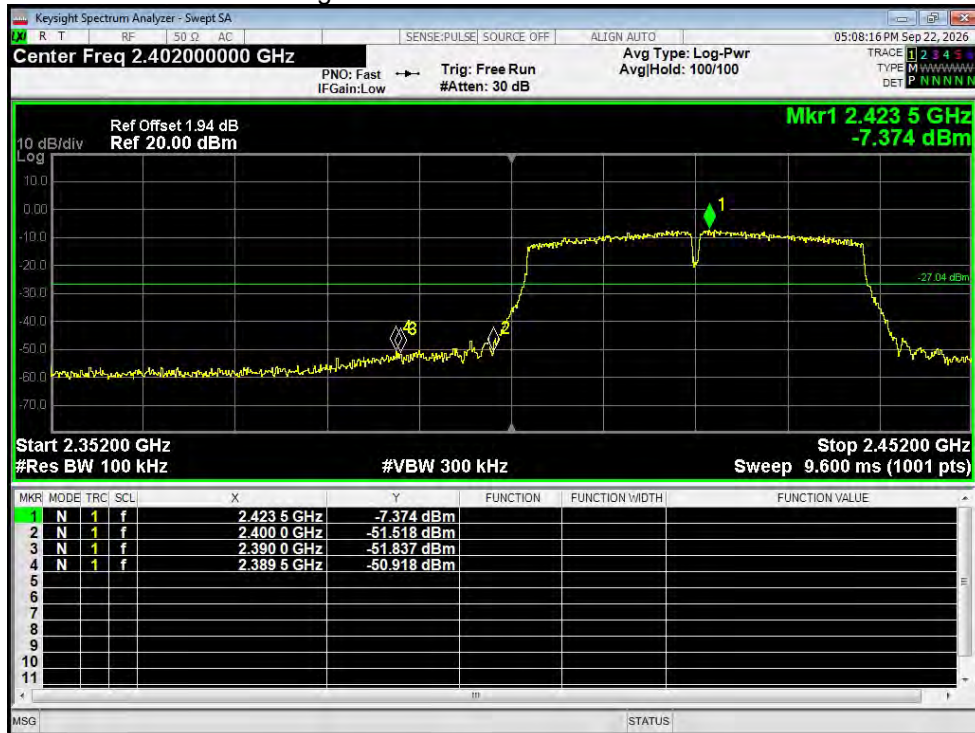
Band Edge NVNT n20 2462MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



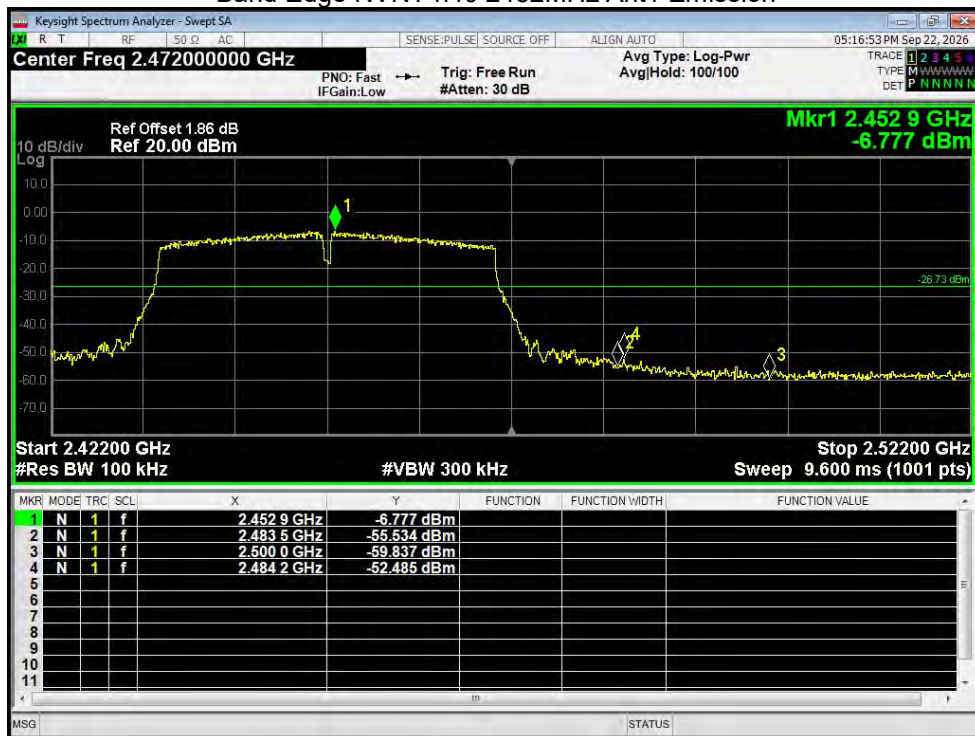
Band Edge NVNT n40 2422MHz Ant1 Emission



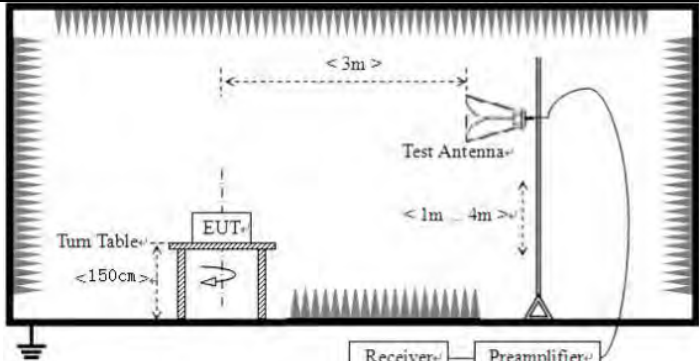
Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



Radiated Emission Method

Test Requirement:	47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 6.10.4&11.12.1				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test environment:	Temp.: 24.2°C			Humid.: 53%RH	
Test voltage:	DC 5V From adapter				
Test results:	Pass				



Measurement data:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	66.02	-13.36	52.66	74.00	-21.34	Horizontal
2390.00	67.82	-13.03	54.79	74.00	-19.21	Horizontal
2310.00	65.68	-13.36	52.32	74.00	-21.68	Vertical
2390.00	68.50	-13.03	55.47	74.00	-18.53	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	55.85	-13.36	42.49	54.00	-11.51	Horizontal
2390.00	58.22	-13.03	45.19	54.00	-8.81	Horizontal
2310.00	55.24	-13.36	41.88	54.00	-12.12	Vertical
2390.00	58.06	-13.03	45.03	54.00	-8.97	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	69.81	-12.64	57.17	74.00	-16.83	Horizontal
2500.00	65.84	-12.57	53.27	74.00	-20.73	Horizontal
2483.50	69.59	-12.64	56.95	74.00	-17.05	Vertical
2500.00	66.00	-12.57	53.43	74.00	-20.57	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	58.85	-12.64	46.21	54.00	-7.79	Horizontal
2500.00	55.07	-12.57	42.50	54.00	-11.50	Horizontal
2483.50	59.47	-12.64	46.83	54.00	-7.17	Vertical
2500.00	55.40	-12.57	42.83	54.00	-11.17	Vertical

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level =Receiver Read level + Factor
3. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	66.55	-13.36	53.19	74.00	-20.81	Horizontal
2390.00	68.28	-13.03	55.25	74.00	-18.75	Horizontal
2310.00	66.89	-13.36	53.53	74.00	-20.47	Vertical
2390.00	68.77	-13.03	55.74	74.00	-18.26	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	55.87	-13.36	42.51	54.00	-11.49	Horizontal
2390.00	57.72	-13.03	44.69	54.00	-9.31	Horizontal
2310.00	56.22	-13.36	42.86	54.00	-11.14	Vertical
2390.00	58.38	-13.03	45.35	54.00	-8.65	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	68.85	-12.64	56.21	74.00	-17.79	Horizontal
2500.00	66.36	-12.57	53.79	74.00	-20.21	Horizontal
2483.50	69.26	-12.64	56.62	74.00	-17.38	Vertical
2500.00	66.84	-12.57	54.27	74.00	-19.73	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	57.71	-12.64	45.07	54.00	-8.93	Horizontal
2500.00	55.96	-12.57	43.39	54.00	-10.61	Horizontal
2483.50	58.31	-12.64	45.67	54.00	-8.33	Vertical
2500.00	56.44	-12.57	43.87	54.00	-10.13	Vertical

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level = Receiver Read level + Factor
3. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	67.02	-13.36	53.66	74.00	-20.34	Horizontal
2390.00	69.12	-13.03	56.09	74.00	-17.91	Horizontal
2310.00	66.74	-13.36	53.38	74.00	-20.62	Vertical
2390.00	68.81	-13.03	55.78	74.00	-18.22	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	56.83	-13.36	43.47	54.00	-10.53	Horizontal
2390.00	58.46	-13.03	45.43	54.00	-8.57	Horizontal
2310.00	55.95	-13.36	42.59	54.00	-11.41	Vertical
2390.00	57.81	-13.03	44.78	54.00	-9.22	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	68.97	-12.64	56.33	74.00	-17.67	Horizontal
2500.00	66.32	-12.57	53.75	74.00	-20.25	Horizontal
2483.50	69.19	-12.64	56.55	74.00	-17.45	Vertical
2500.00	66.35	-12.57	53.78	74.00	-20.22	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	58.21	-12.64	45.57	54.00	-8.43	Horizontal
2500.00	56.01	-12.57	43.44	54.00	-10.56	Horizontal
2483.50	58.56	-12.64	45.92	54.00	-8.08	Vertical
2500.00	56.41	-12.57	43.84	54.00	-10.16	Vertical

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level =Receiver Read level + Factor
3. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	66.87	-13.36	53.51	74.00	-20.49	Horizontal
2390.00	67.41	-13.03	54.38	74.00	-19.62	Horizontal
2310.00	66.14	-13.36	52.78	74.00	-21.22	Vertical
2390.00	69.20	-13.03	56.17	74.00	-17.83	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	56.12	-13.36	42.76	54.00	-11.24	Horizontal
2390.00	85.19	-13.03	72.16	54.00	18.16	Horizontal
2310.00	57.84	-13.36	44.48	54.00	-9.52	Vertical
2390.00	60.19	-13.36	46.83	54.00	-7.17	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	71.31	-12.64	58.67	74.00	-15.33	Horizontal
2500.00	68.78	-12.57	56.21	74.00	-17.79	Horizontal
2483.50	70.59	-12.64	57.95	74.00	-16.05	Vertical
2500.00	67.79	-12.57	55.22	74.00	-18.78	Vertical

Average value:

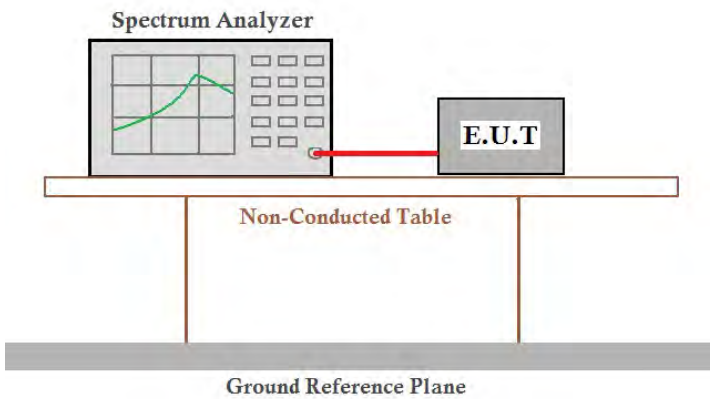
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	61.08	-12.64	48.44	54.00	-5.56	Horizontal
2500.00	57.94	-12.57	45.37	54.00	-8.63	Horizontal
2483.50	61.27	-12.64	48.63	54.00	-5.37	Vertical
2500.00	57.05	-12.57	44.48	54.00	-9.52	Vertical

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level = Receiver Read level + Factor
3. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.

4.8 Spurious Emission

Conducted Emission Method

Test Requirement:	47CFR Part 15.247 (d), 47CFR Part 15.209	
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 § 11.12.2	
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.	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.2°C	Humid.: 53%RH
Test voltage:	DC 5V from adapter	
Test results:	Pass	

Remark:

1. Cable loss data included in Offset.

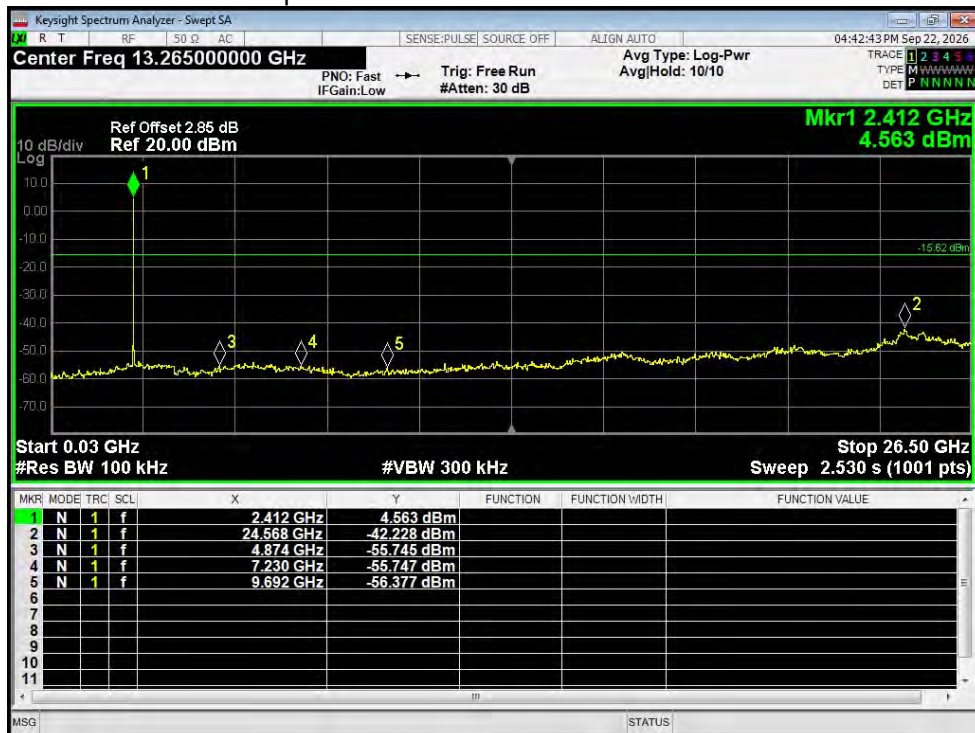
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.6	-20	Pass
NVNT	b	2437	Ant1	-47.95	-20	Pass
NVNT	b	2462	Ant1	-46.22	-20	Pass
NVNT	g	2412	Ant1	-40.65	-20	Pass
NVNT	g	2437	Ant1	-39.17	-20	Pass
NVNT	g	2462	Ant1	-39.60	-20	Pass
NVNT	n20	2412	Ant1	-38.90	-20	Pass
NVNT	n20	2437	Ant1	-39.33	-20	Pass
NVNT	n20	2462	Ant1	-39.71	-20	Pass
NVNT	n40	2422	Ant1	-35.55	-20	Pass
NVNT	n40	2437	Ant1	-36.33	-20	Pass
NVNT	n40	2452	Ant1	-35.85	-20	Pass

Test plot as follows:

Tx. Spurious NVNT b 2412MHz Ant1 Ref



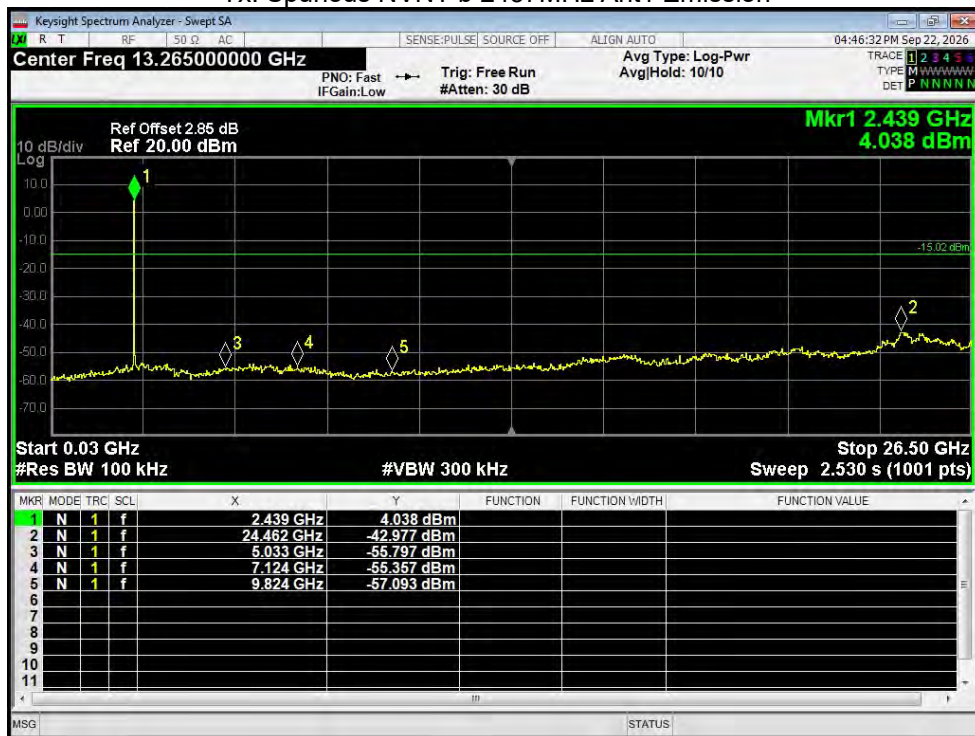
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



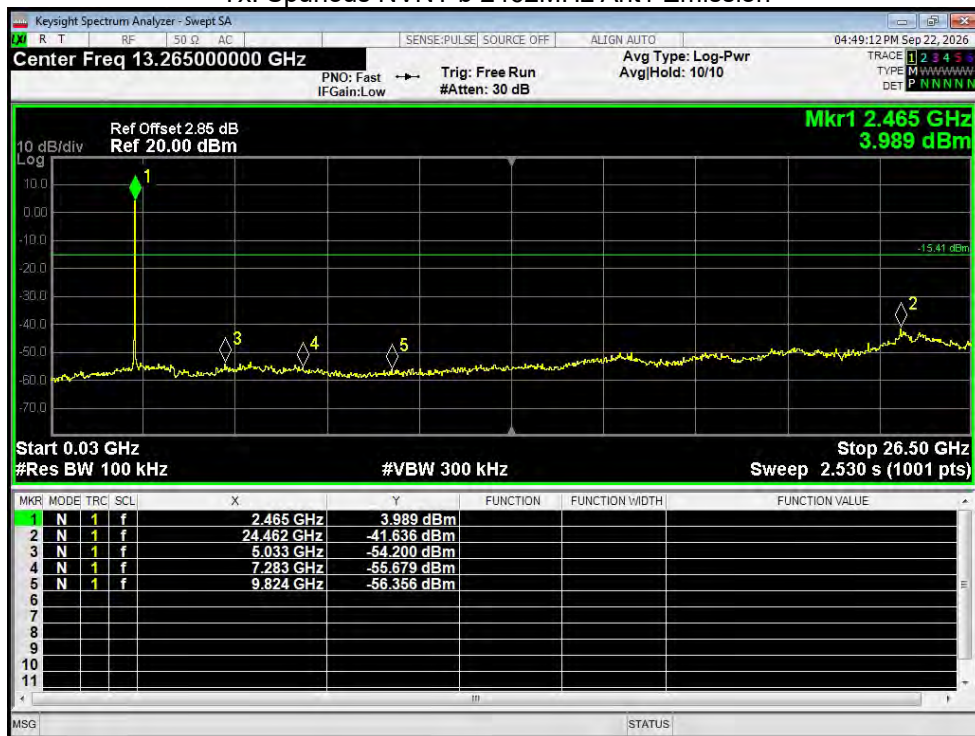
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



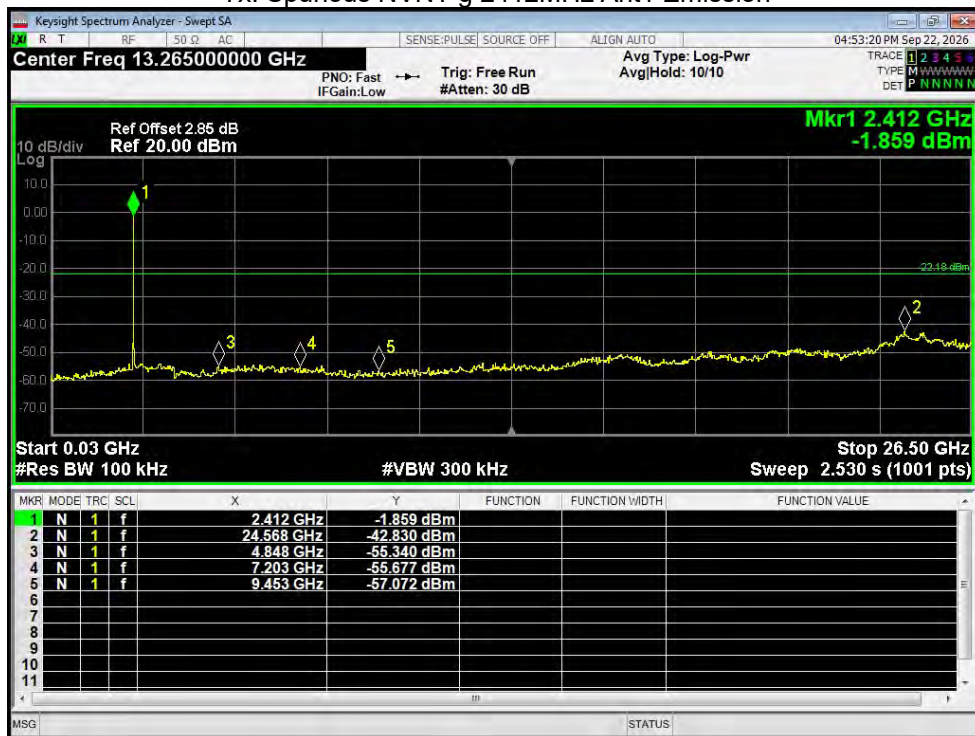
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



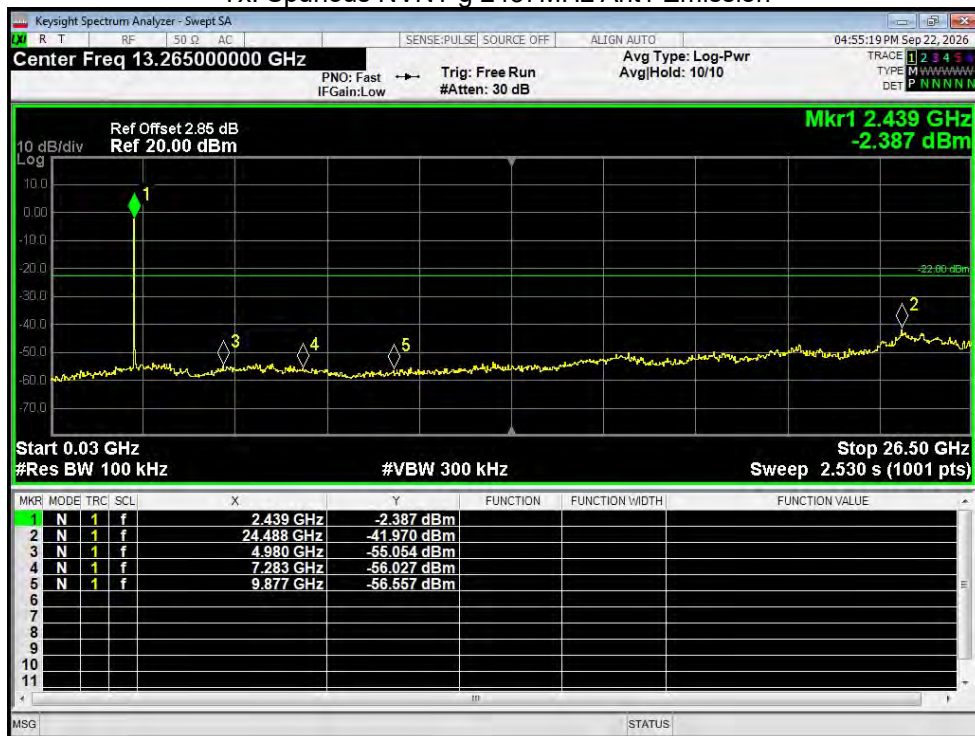
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



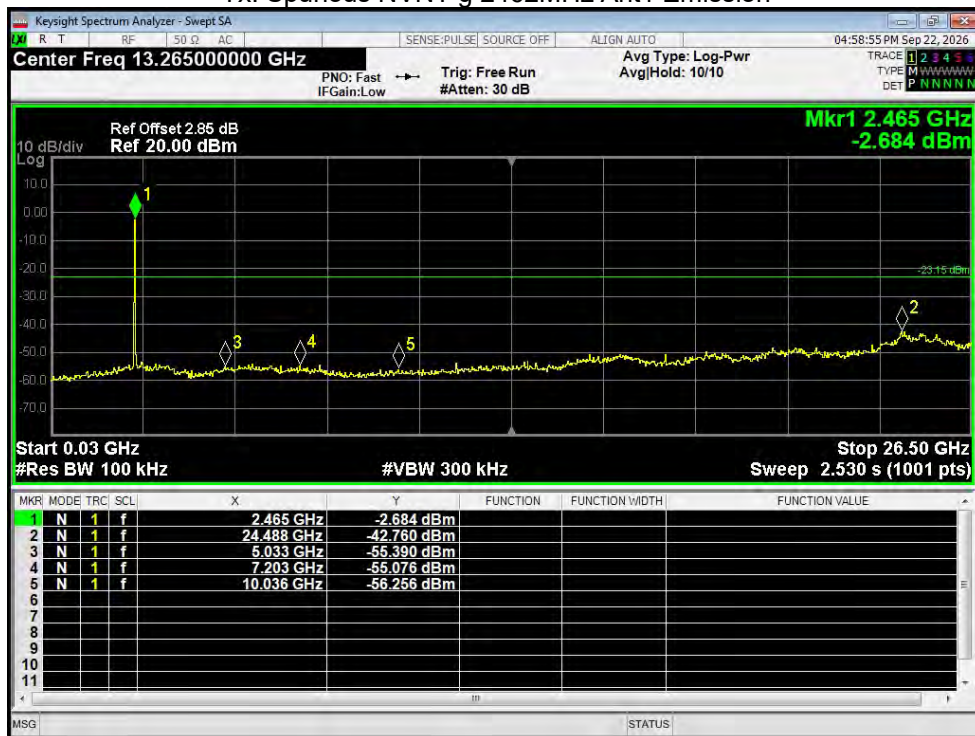
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



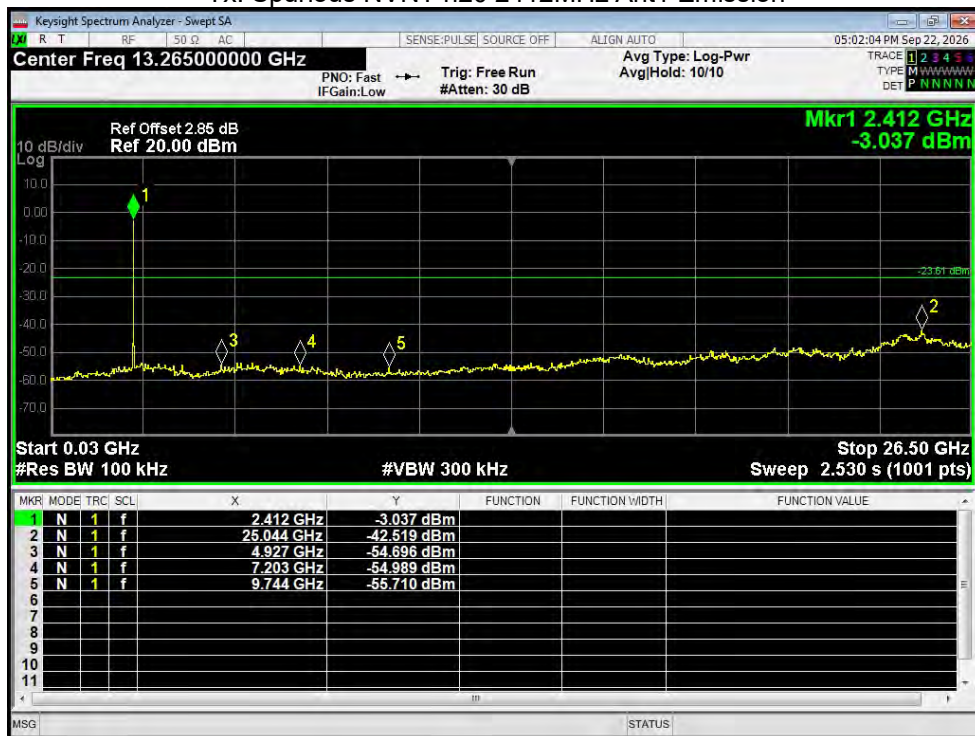
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



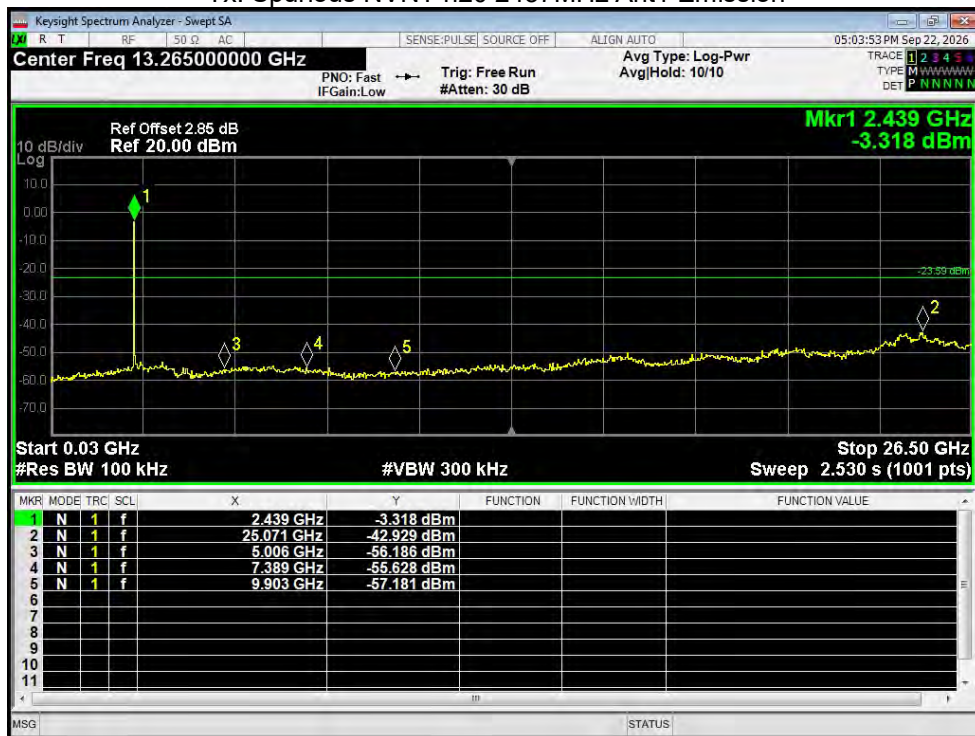
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



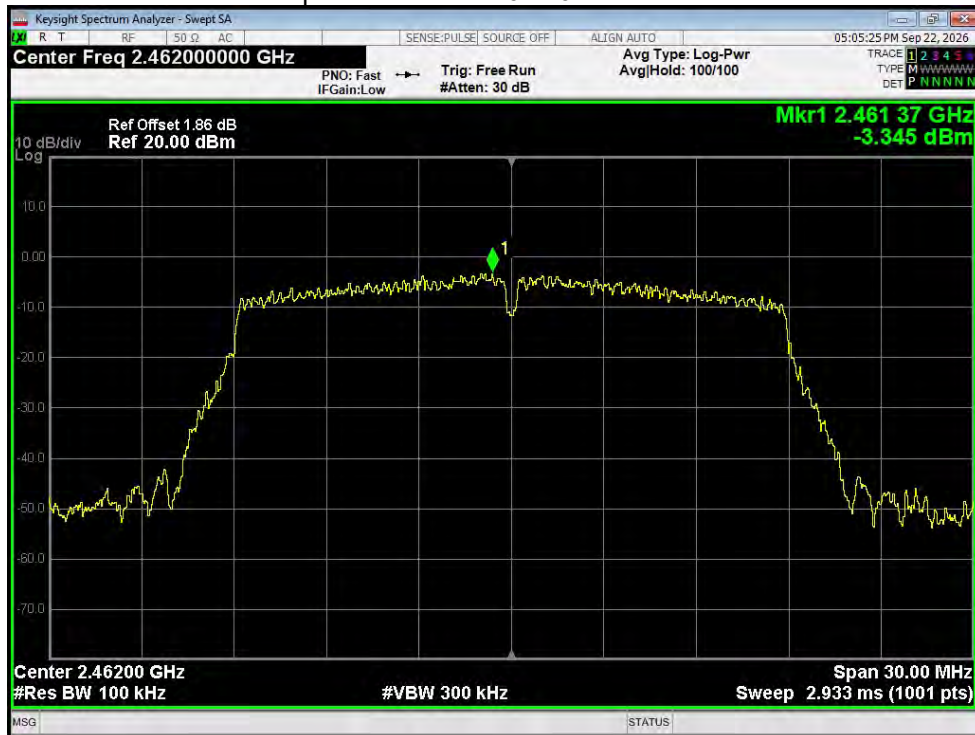
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



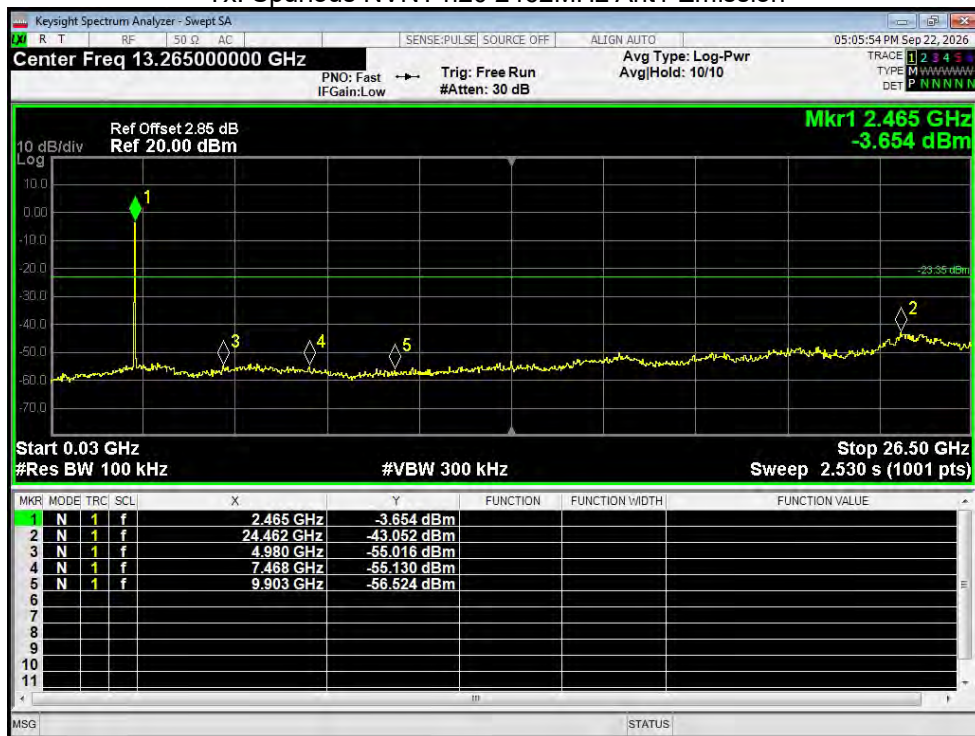
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



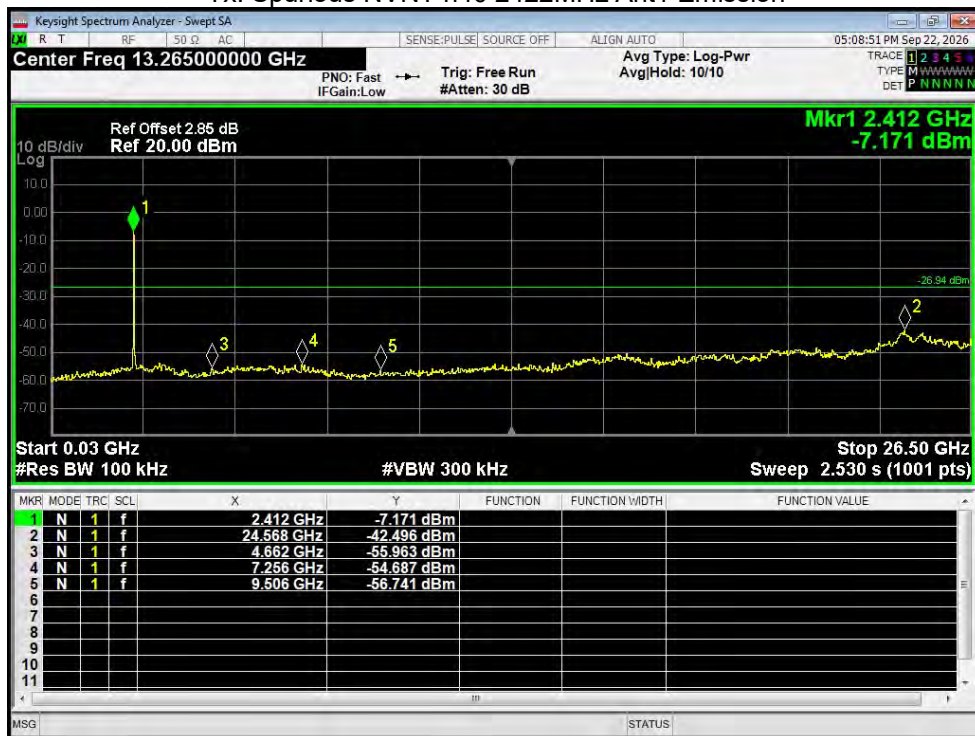
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



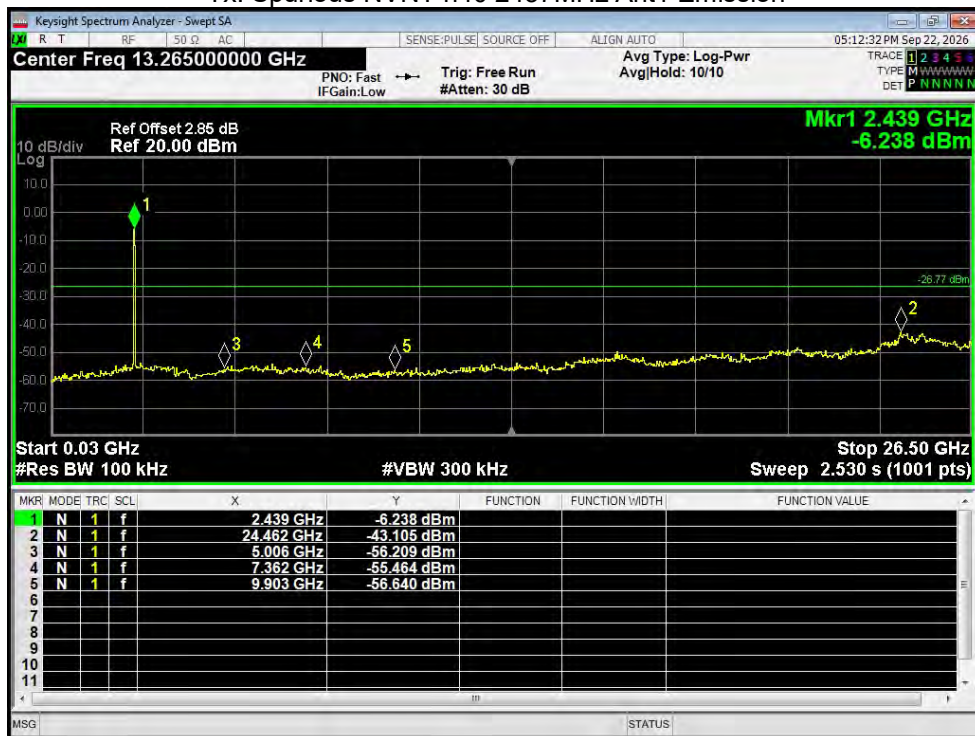
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Tx. Spurious NVNT n40 2437MHz Ant1 Ref



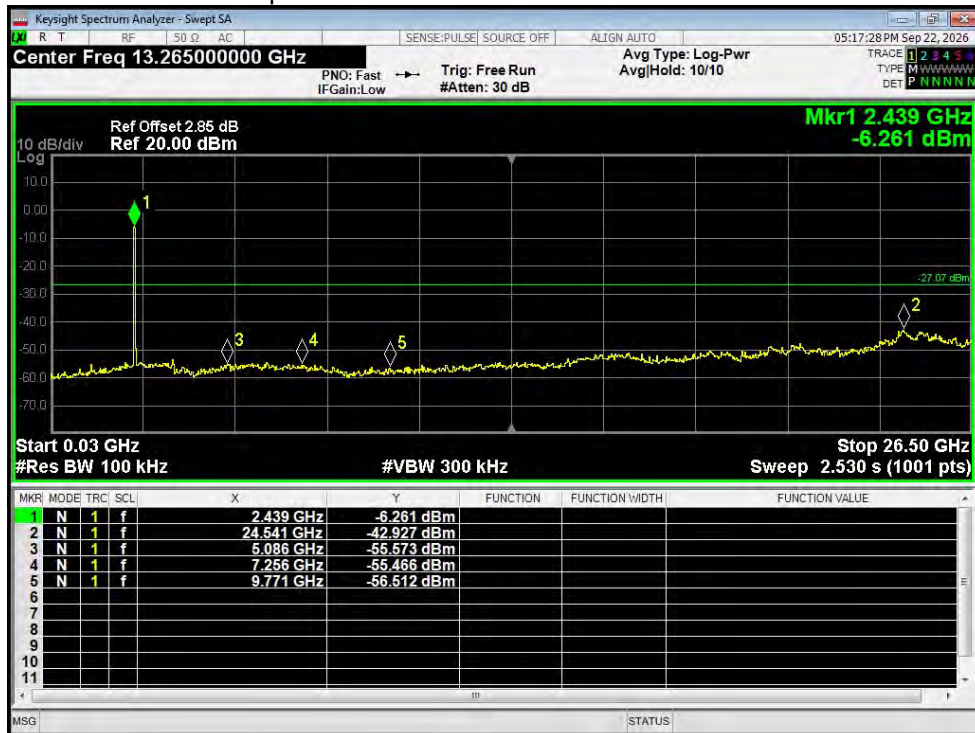
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



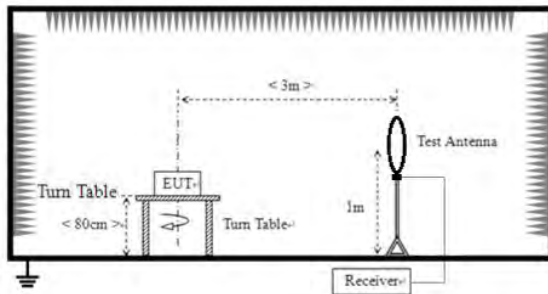
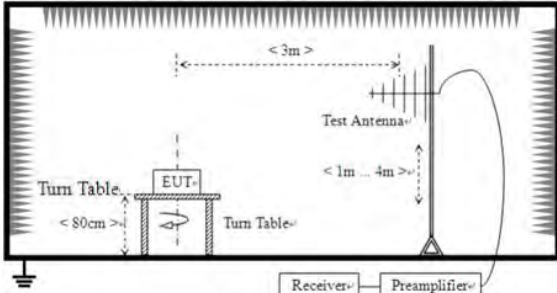
Tx. Spurious NVNT n40 2452MHz Ant1 Ref

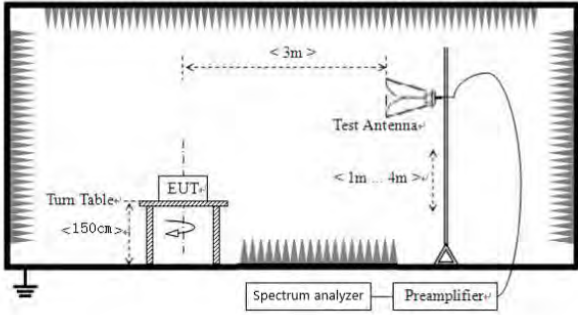


Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Radiated Emission Method

Test Requirement:	47CFR part 15.247(d),47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024§6.4&6.5&6.6				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to1GHz				
					
	For radiated emissions above 1GHz				

	
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remarks:

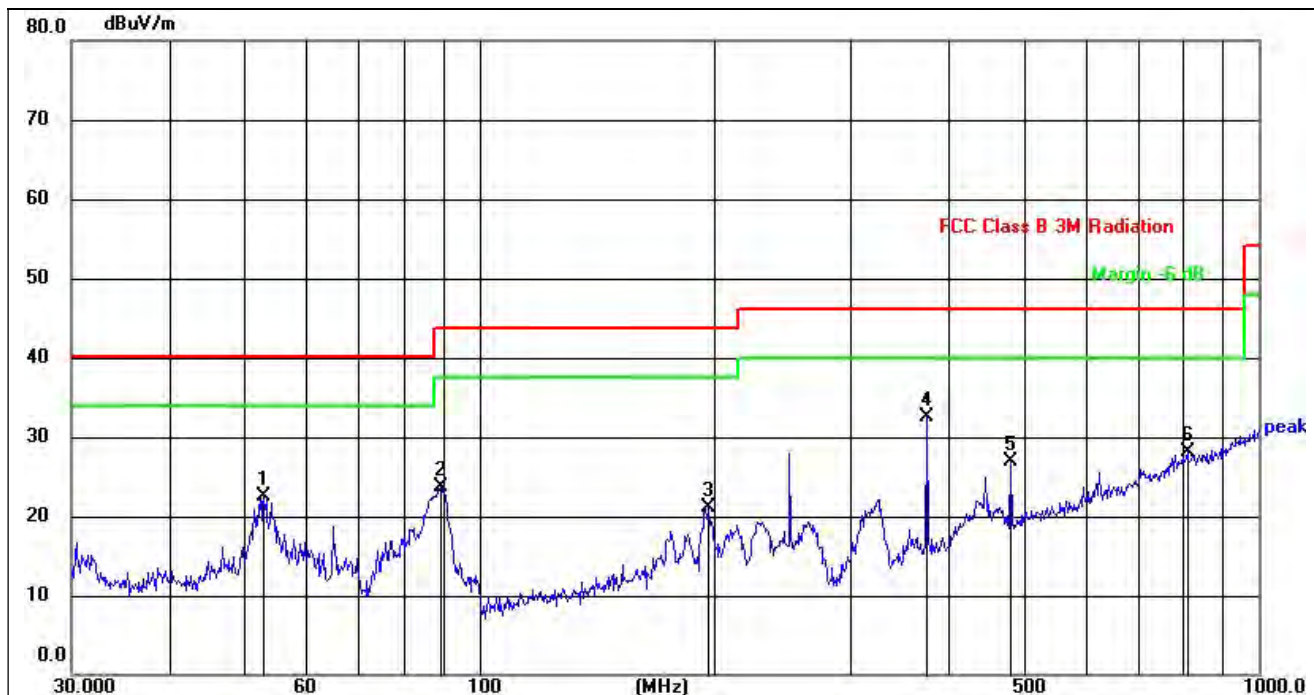
1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-(axis, Z-axis), and found the Y-axis which it is worse case.
3. All models and modes have been tested, and the report only displays the worst mode 802.11b (241 2MHz) data.

Measurement data:
■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

Test polarization:	Vertical	Test voltage:	DC 5V from adapter with AC 120V/50Hz
Temp.:	24.1°C	Humid.:	65%RH



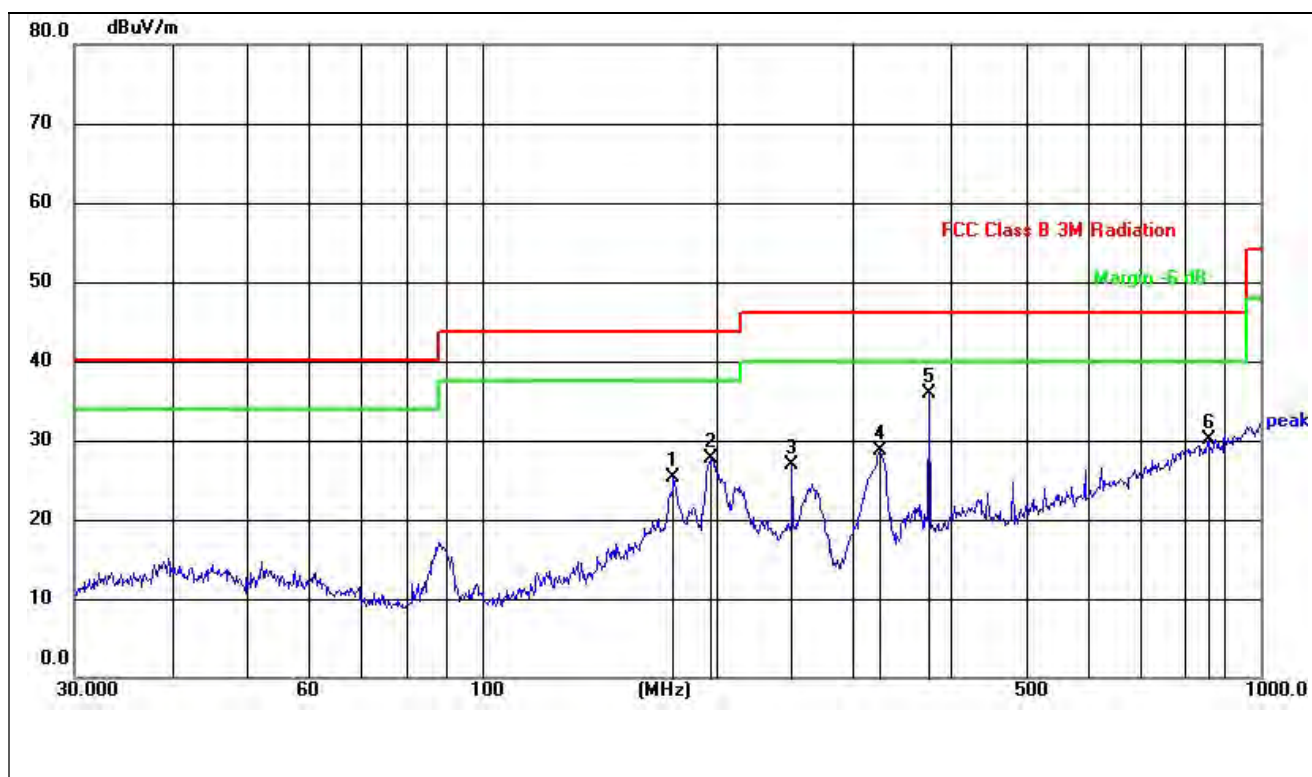
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	52.9453	44.85	-22.29	22.56	40.00	-17.44	QP
2	89.2762	49.45	-25.74	23.71	43.50	-19.79	QP
3	197.2001	44.78	-23.76	21.02	43.50	-22.48	QP
4	375.9385	50.99	-18.48	32.51	46.00	-13.49	QP
5	480.5276	42.01	-15.09	26.92	46.00	-19.08	QP
6	810.2653	34.43	-6.26	28.17	46.00	-17.83	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor – Preamplifier Factor

Test polarization:	Horizontal	Test voltage:	DC 5V from adapter with AC 120V/50Hz
Temp.:	24.1°C	Humid.:	65%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	176.2685	47.58	-22.36	25.22	43.50	-18.28	QP
2	197.2000	51.51	-23.76	27.75	43.50	-15.75	QP
3	250.3010	49.59	-22.66	26.93	46.00	-19.07	QP
4	324.4560	48.32	-19.67	28.65	46.00	-17.35	QP
5	375.9384	54.43	-18.48	35.95	46.00	-10.05	QP
6	857.0245	35.92	-5.90	30.02	46.00	-15.98	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor – Preamplifier Factor



■ 1GHz-25GHz

Temp.:	24.1°C	Humid.:	65%RH
Test voltage:	DC 5V from adapter with AC 120V/50Hz		

Test mode:	802.11b	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	60.49	-7.66	52.83	74.00	-21.17	Vertical
7236.00	57.09	-1.62	55.47	74.00	-18.53	Vertical
9648.00	55.27	1.27	56.54	74.00	-17.46	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	61.29	-7.66	53.63	74.00	-20.37	Horizontal
7236.00	57.10	-1.62	55.48	74.00	-18.52	Horizontal
9648.00	54.37	1.27	55.64	74.00	-18.36	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	50.31	-7.66	42.65	54.00	-11.35	Vertical
7236.00	46.21	-1.62	44.59	54.00	-9.41	Vertical
9648.00	43.52	1.27	44.79	54.00	-9.21	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	50.75	-7.66	43.09	54.00	-10.91	Horizontal
7236.00	46.29	-1.62	44.67	54.00	-9.33	Horizontal
9648.00	44.33	1.27	45.60	54.00	-8.40	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*” , means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*



Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	61.21	-7.58	53.63	74.00	-20.37	Vertical
7311.00	57.23	-1.40	55.83	74.00	-18.17	Vertical
9748.00	54.31	1.20	55.51	74.00	-18.49	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	60.96	-7.58	53.38	74.00	-20.62	Horizontal
7311.00	55.42	-1.40	54.02	74.00	-19.98	Horizontal
9748.00	53.38	1.20	54.58	74.00	-19.42	Horizontal
12185.00	*	--		74.00		Horizontal
14622.00	*	--		74.00		Horizontal
17059.00	*	--		74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	50.40	-7.58	42.82	54.00	-11.18	Vertical
7311.00	45.12	-1.40	43.72	54.00	-10.28	Vertical
9748.00	44.04	1.20	45.24	54.00	-8.76	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	50.16	-7.58	42.58	54.00	-11.42	Horizontal
7311.00	45.93	-1.40	44.53	54.00	-9.47	Horizontal
9748.00	44.26	1.20	45.46	54.00	-8.54	Horizontal
12185.00	*	--		54.00		Horizontal
14622.00	*	--		54.00		Horizontal
17059.00	*	--		54.00		Horizontal

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	61.33	-7.49	53.84	74.00	-20.16	Vertical
7386.00	56.68	-1.18	55.50	74.00	-18.50	Vertical
9848.00	57.94	1.12	59.06	74.00	-14.94	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	60.83	-7.49	53.34	74.00	-20.66	Horizontal
7386.00	57.67	-1.18	56.49	74.00	-17.51	Horizontal
9848.00	54.05	1.12	55.17	74.00	-18.83	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	50.36	-7.49	42.87	54.00	-11.13	Vertical
7386.00	46.80	-1.18	45.62	54.00	-8.38	Vertical
9848.00	44.96	1.12	46.08	54.00	-7.92	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	51.54	-7.49	44.05	54.00	-9.95	Horizontal
7386.00	47.48	-1.18	46.30	54.00	-7.70	Horizontal
9848.00	44.75	1.12	45.87	54.00	-8.13	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”*, means this data is the too weak instrument of signal is unable to test.
4. *Emissions more than 20 dB below the limit do not need to be reported.*



Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	61.84	-7.66	54.18	74.00	-19.82	Vertical
7236.00	58.04	-1.62	56.42	74.00	-17.58	Vertical
9648.00	55.07	1.27	56.34	74.00	-17.66	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	62.87	-7.66	55.21	74.00	-18.79	Horizontal
7236.00	55.54	-1.62	53.92	74.00	-20.08	Horizontal
9648.00	57.75	1.27	59.02	74.00	-14.98	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	51.60	-7.66	43.94	54.00	-10.06	Vertical
7236.00	47.12	-1.62	45.50	54.00	-8.50	Vertical
9648.00	72.62	1.27	73.89	54.00	19.89	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	52.23	-7.66	44.57	54.00	-9.43	Horizontal
7236.00	46.24	-1.62	44.62	54.00	-9.38	Horizontal
9648.00	47.18	1.27	48.45	54.00	-5.55	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”*, means this data is the too weak instrument of signal is unable to test.
4. *Emissions more than 20 dB below the limit do not need to be reported.*



Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
4874.00	61.65	-7.58	54.07	74.00	-19.93	Vertical
7311.00	61.71	-1.40	60.31	74.00	-13.69	Vertical
9748.00	55.71	1.20	56.91	74.00	-17.09	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	62.39	-7.58	54.81	74.00	-19.19	Horizontal
7311.00	55.88	-1.40	54.48	74.00	-19.52	Horizontal
9748.00	54.81	1.20	56.01	74.00	-17.99	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
4874.00	52.17	-7.58	44.59	54.00	-9.41	Vertical
7311.00	48.61	-1.40	47.21	54.00	-6.79	Vertical
9748.00	45.02	1.20	46.22	54.00	-7.78	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	52.41	-7.58	44.83	54.00	-9.17	Horizontal
7311.00	45.64	-1.40	44.24	54.00	-9.76	Horizontal
9748.00	44.53	1.20	45.73	54.00	-8.27	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”*, means this data is the too weak instrument of signal is unable to test.
4. *Emissions more than 20 dB below the limit do not need to be reported.*



Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	63.53	-7.49	56.04	74.00	-17.96	Vertical
7386.00	55.16	-1.18	53.98	74.00	-20.02	Vertical
9848.00	57.76	1.12	58.88	74.00	-15.12	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	62.79	-7.49	55.30	74.00	-18.70	Horizontal
7386.00	56.16	-1.18	54.98	74.00	-19.02	Horizontal
9848.00	55.48	1.12	56.60	74.00	-17.40	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	52.51	-7.49	45.02	54.00	-8.98	Vertical
7386.00	45.90	-1.18	44.72	54.00	-9.28	Vertical
9848.00	46.29	1.12	47.41	54.00	-6.59	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	52.08	-7.49	44.59	54.00	-9.41	Horizontal
7386.00	46.34	-1.18	45.16	54.00	-8.84	Horizontal
9848.00	44.50	1.12	45.62	54.00	-8.38	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*” means this data is too weak for the instrument to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*



Test mode:	802.11n20	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	61.85	-7.66	54.19	74.00	-19.81	Vertical
7236.00	60.62	-1.62	59.00	74.00	-15.00	Vertical
9648.00	57.61	1.27	58.88	74.00	-15.12	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	63.46	-7.66	55.80	74.00	-18.20	Horizontal
7236.00	56.10	-1.62	54.48	74.00	-19.52	Horizontal
9648.00	56.82	1.27	58.09	74.00	-15.91	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	51.87	-7.66	44.21	54.00	-9.79	Vertical
7236.00	48.37	-1.62	46.75	54.00	-7.25	Vertical
9648.00	46.11	1.27	47.38	54.00	-6.62	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	53.14	-7.66	45.48	54.00	-8.52	Horizontal
7236.00	46.32	-1.62	44.70	54.00	-9.30	Horizontal
9648.00	44.75	1.27	46.02	54.00	-7.98	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n20	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	62.38	-7.58	54.80	74.00	-19.20	Vertical
7311.00	55.86	-1.40	54.46	74.00	-19.54	Vertical
9748.00	54.42	1.20	55.62	74.00	-18.38	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	63.80	-7.58	56.22	74.00	-17.78	Horizontal
7311.00	58.34	-1.40	56.94	74.00	-17.06	Horizontal
9748.00	55.06	1.20	56.26	74.00	-17.74	Horizontal
12185.00		--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	52.59	-7.58	45.01	54.00	-8.99	Vertical
7311.00	46.12	-1.40	44.72	54.00	-9.28	Vertical
9748.00	45.96	1.20	47.16	54.00	-6.84	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	52.70	-7.58	45.12	54.00	-8.88	Horizontal
7311.00	47.79	-1.40	46.39	54.00	-7.61	Horizontal
9748.00	45.50	1.20	46.70	54.00	-7.30	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. Level = Read level + Factor
2. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11n20	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	62.83	-7.49	55.34	74.00	-18.66	Vertical
7386.00	54.63	-1.18	53.45	74.00	-20.55	Vertical
9848.00	57.98	1.12	59.10	74.00	-14.90	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	64.12	-7.49	56.63	74.00	-17.37	Horizontal
7386.00	55.41	-1.18	54.23	74.00	-19.77	Horizontal
9848.00	56.90	1.12	58.02	74.00	-15.98	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	53.50	-7.49	46.01	54.00	-7.99	Vertical
7386.00	45.72	-1.18	44.54	54.00	-9.46	Vertical
9848.00	47.90	1.12	49.02	54.00	-4.98	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	53.13	-7.49	45.64	54.00	-8.36	Horizontal
7386.00	46.88	-1.18	45.70	54.00	-8.30	Horizontal
9848.00	46.13	1.12	47.25	54.00	-6.75	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”*, means this data is the too weak instrument of signal is unable to test.
4. *Emissions more than 20 dB below the limit do not need to be reported.*



Test mode:	802.11n40	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	63.62	-7.63	55.99	74.00	-18.01	Vertical
7266.00	56.48	-1.53	54.95	74.00	-19.05	Vertical
9688.00	54.21	1.24	55.45	74.00	-18.55	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4844.00	64.54	-7.63	56.91	74.00	-17.09	Horizontal
7266.00	56.26	-1.53	54.73	74.00	-19.27	Horizontal
9688.00	55.04	1.24	56.28	74.00	-17.72	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	52.68	-7.63	45.05	54.00	-8.95	Vertical
7266.00	46.24	-1.53	44.71	54.00	-9.29	Vertical
9688.00	46.04	1.24	47.28	54.00	-6.72	Vertical
12060.00	*	--		54.00		Vertical
14472.00	*	--		54.00		Vertical
16884.00	*	--		54.00		Vertical
4844.00	52.20	-7.63	44.57	54.00	-9.43	Horizontal
7266.00	45.17	-1.53	43.64	54.00	-10.36	Horizontal
9688.00	44.94	1.24	46.18	54.00	-7.82	Horizontal
12060.00	*	--		54.00		Horizontal
14472.00	*	--		54.00		Horizontal
16884.00	*	--		54.00		Horizontal

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11n40	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	63.87	-7.58	56.29	74.00	-17.71	Vertical
7311.00	56.59	-1.40	55.19	74.00	-18.81	Vertical
9748.00	56.27	1.20	57.47	74.00	-16.53	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	65.32	-7.58	57.74	74.00	-16.26	Horizontal
7311.00	55.90	-1.40	54.50	74.00	-19.50	Horizontal
9748.00	55.90	1.20	57.10	74.00	-16.90	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	53.14	-7.58	45.56	54.00	-8.44	Vertical
7311.00	47.16	-1.40	45.76	54.00	-8.24	Vertical
9748.00	46.10	1.20	47.30	54.00	-6.70	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	54.12	-7.58	46.54	54.00	-7.46	Horizontal
7311.00	46.54	-1.40	45.14	54.00	-8.86	Horizontal
9748.00	45.52	1.20	46.72	54.00	-7.28	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11n40	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	60.63	-7.52	53.11	74.00	-20.89	Vertical
7356.00	60.55	-1.26	59.29	74.00	-14.71	Vertical
9808.00	56.81	1.16	57.97	74.00	-16.03	Vertical
12310.00		--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4904.00	61.89	-7.52	54.37	74.00	-19.63	Horizontal
7356.00	57.31	-1.26	56.05	74.00	-17.95	Horizontal
9808.00	55.25	1.16	56.41	74.00	-17.59	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	50.49	-7.52	42.97	54.00	-11.03	Vertical
7356.00	48.69	-1.26	47.43	54.00	-6.57	Vertical
9808.00	46.14	1.16	47.30	54.00	-6.70	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4904.00	51.39	-7.52	43.87	54.00	-10.13	Horizontal
7356.00	48.72	-1.26	47.46	54.00	-6.54	Horizontal
9808.00	44.93	1.16	46.09	54.00	-7.91	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. Level = Read level + Factor
2. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



5. Test Setup Photo

Reference to the file No.: ET-26084288SP for details.

6. EUT Constructional Details

Reference to the file No.: ET-26084288EP and ET-26084288IP for details.

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