



FCC TEST REPORT

FCC ID: 2BMNP-SPK7318YZW

On Behalf of

Fujian Iselected E-commerce Co.,Ltd.

Wireless Mouse

Model No.: SPK7318

Prepared for : Fujian Iselected E-commerce Co.,Ltd.
Address : 15th Floor, Building A, Aofeng Plaza, No. 2 Aofeng Road, Taijiang
District, Fuzhou City, Fujian Province, China

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
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TEST REPORT DECLARATION

Applicant : Fujian Iselected E-commerce Co.,Ltd.
Address : 15th Floor, Building A, Aofeng Plaza, No. 2 Aofeng Road, Taijiang District,
Fuzhou City, Fujian Province, China
Manufacturer : MMD (Shanghai) Electronic Technology Co., Ltd.
Address : Room107, Building 17 , No. 525 Yuanjiang Road, Minhang District, Shanghai,
China
EUT Description : Wireless Mouse
(A) Model No. : SPK7318
(B) Trademark : PHILIPS

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Jensen Wang
Test Engineer

Jensen Wang

Approved by (name + signature).....:

Simple Guan
Project Manager

Simple Guan

Date of issue.....:

August 27, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	August 27, 2026	Initial released Issue	Jensen Wang



1. Summary Of Standards And Results

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	N/A
6dB Bandwidth	FCC PART 15:15.247(a)(2), ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	P
Output Power	FCC Part 15: 15.247(b)(3), ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d), ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	P
Out-of-band Emissions	FCC Part 15: 15.247(d), ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	P
Power Spectral Density	FCC PART 15:15.247(e), ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d), ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	P
Antenna Requirement	FCC Part 15: 15.203	P
<p>Note: 1. P is an abbreviation for Pass.</p> <p>2. F is an abbreviation for Fail.</p> <p>3. N/A is an abbreviation for Not Applicable.</p> <p>4. Conclusion determination rules of this report: Unless there are clear provisions on measurement uncertainty in the standard or customer requirements, decision by actual test data without considering measurement uncertainty.</p> <p>5. Measurement method usage KDB 558074 D01 15.247 Meas Guidance v05r02.</p>		

2. General Information

2.1. Description of Device (EUT)

Product Name : Wireless Mouse

Model No. : SPK7318

Diff : N/A

Power supply : DC 1.5V from battery

Radio Technology : 2.4G SRD

Operation frequency : 2403.85-2479.85MHz

Channel No. : 16 channels

Rate : 2Mbps

Modulation : GFSK

Antenna Type : Internal antenna, Maximum Gain is 2.34 dBi.

Software version : V1.0

Hardware version : V1.0

Note : Antenna information is provided by applicant.
Testing lab is not responsible for the accuracy of the information.

2.2. Accessories of Device (EUT)

Accessories : N/A
Manufacturer : N/A
Model : N/A
Input : N/A
Output : N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1.	N/A	N/A	N/A	N/A
2.	N/A	N/A	N/A	N/A

2.4. Block Diagram of Connection Between EUT and Simulators



2.5. Test Mode Description

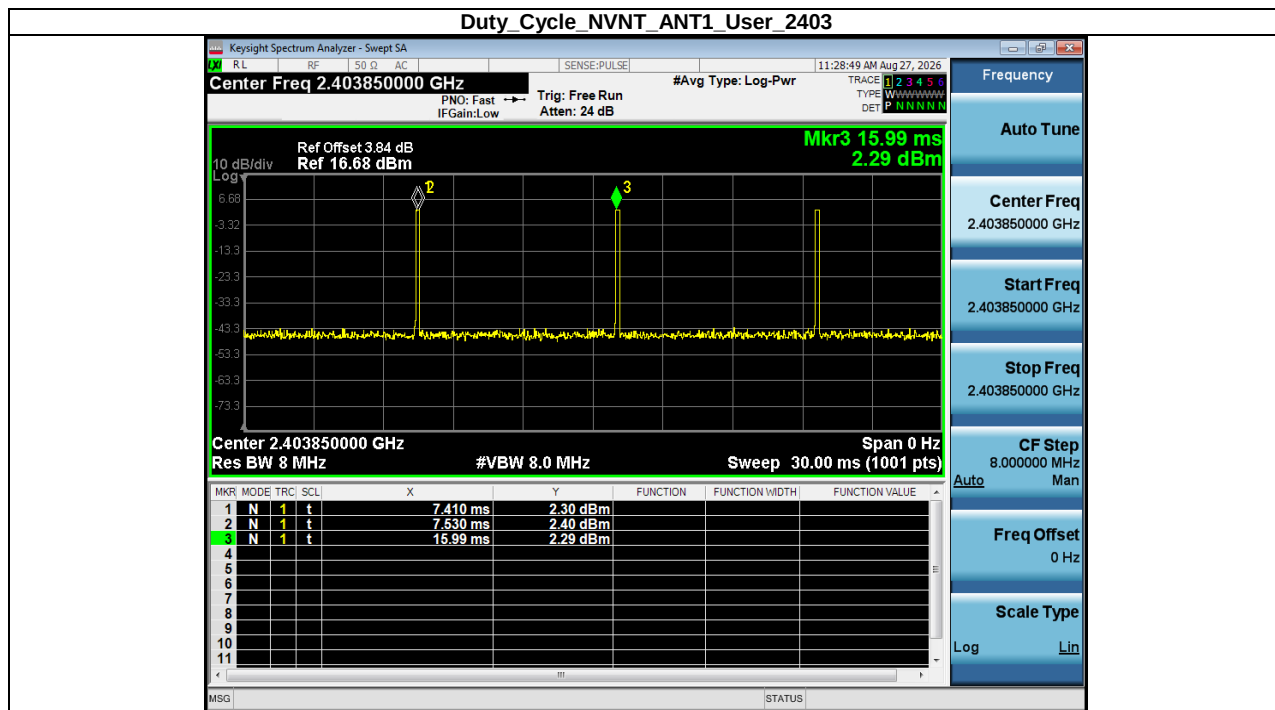
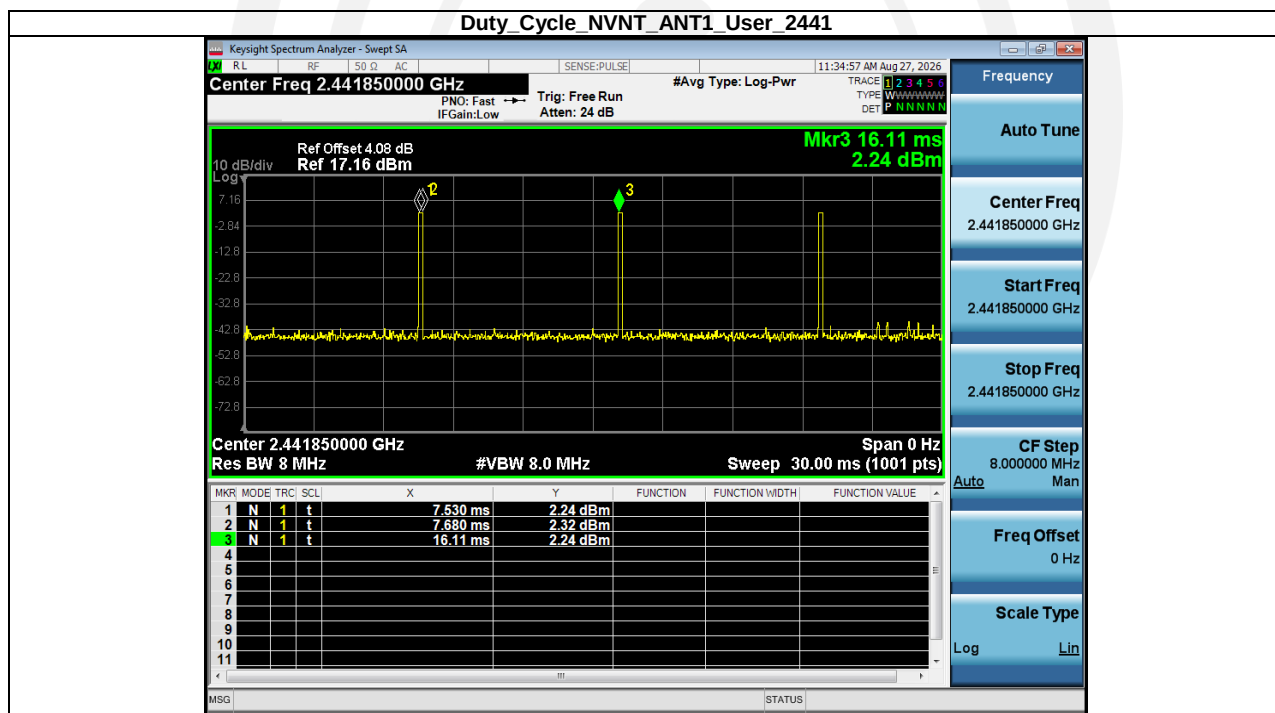
The EUT was configured to work in Continuous TX mode by pressing specific hardware key combinations preset by the client, allowing selection of the testing channel and wireless mode.

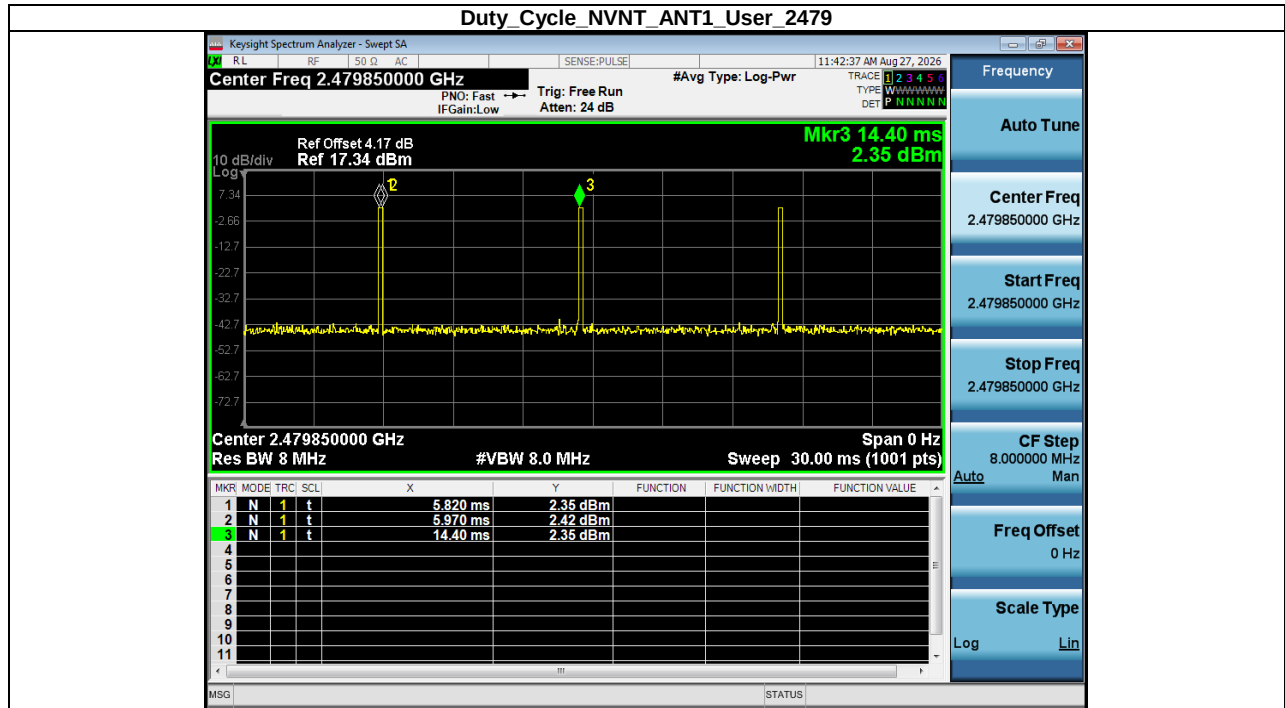
Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK Tx Mode 2Mbps	CH1	2403.85
	CH3	2441.85
	CH16	2479.85

Channel list:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2403.85	CH8	2466.85	CH15	2453.85
CH2	2426.85	CH9	2414.85	CH16	2479.85
CH3	2441.85	CH10	2436.85	--	--
CH4	2463.85	CH11	2459.85	--	--
CH5	2407.85	CH12	2473.85	--	--
CH6	2422.85	CH13	2419.85	--	--
CH7	2445.85	CH14	2439.85	--	--

Note: duty cycle see below:

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)
NVNT	ANT1	User	2403.00	1.40
NVNT	ANT1	User	2441.00	1.75
NVNT	ANT1	User	2480.00	1.75





2.6. Software test version and power setting information

Software testing version	N/A (Controlled by hardware)		
Mode	The EUT was configured into continuous transmission mode via internal hardware key combinations preset by the client to select the testing channel and wireless mode.		
Power level setup by client			
Mode	Channel	Frequency (MHz)	Soft Set
GFSK Tx Mode 2Mbps	CH1	2403.85	TX level is set as defaults value.
	CH3	2441.85	TX level is set as defaults value.
	CH16	2479.85	TX level is set as defaults value.

2.7. Test Conditions

Items	Required
Temperature range:	15-35℃
Humidity range:	25-75%
Pressure range:	86-106kPa

2.8. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.9. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Power Line Conducted Emissions Test	2.13dB
Radiation Emission test in 3m chamber(Below 30MHz)	4.07dB
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

2.10. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2025.12.18	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2025.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2025.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2025.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G18 G-45dB	SK2022032901	/	2025.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118G- 45	SK2020010801	/	2025.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-1 111533-Fz	/	2025.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P00 8	/	2025.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2025.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2025.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	202211251638		2025.12.18	1 Year
17.	Power meter	Agilent	E4419B	GB40202121	/	2025.12.18	1 Year
18.	Cable	SKET	Cable-RE-1	#02/#03	/	2025.12.18	1 Year
19.	Cable	SKET	Cable-RE-2	#01	/	2025.12.18	1 Year
20.	Cable	SKET	Cable-RE-3	#04	/	2025.12.18	1 Year
21.	Cable	SKET	Cable-CE-1	A-E-24	/	2025.12.18	1 Year
22.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2025.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2025.12.18	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EZ EMC	Farad	PSI-3A1
CE	EZ EMC	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

3. Spurious Emission

3.1. Test Limits

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

Note: The peak limit is 20 dB higher than the average limit

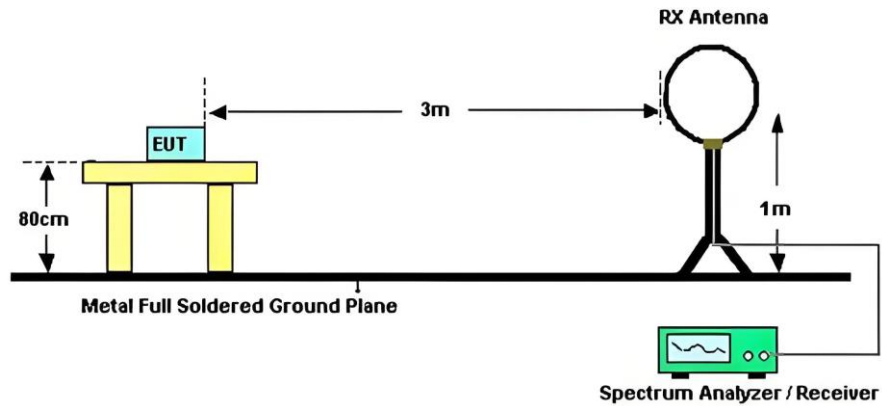
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

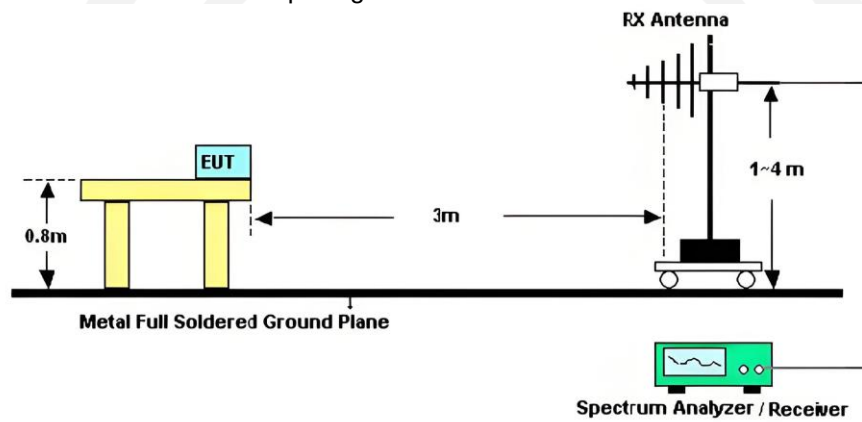
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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)

3.2. Block Diagram of Test setup

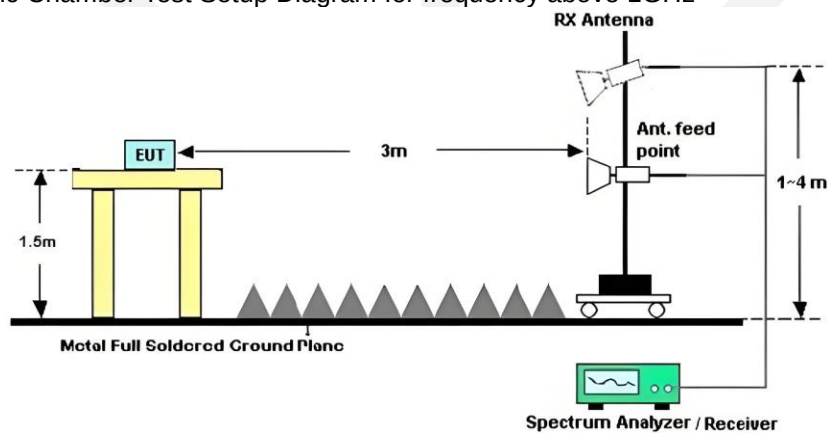
3.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



3.2.2 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



3.2.3 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



3.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 3MHz for Average measure.

Test setup information:

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

3.4. Test Results

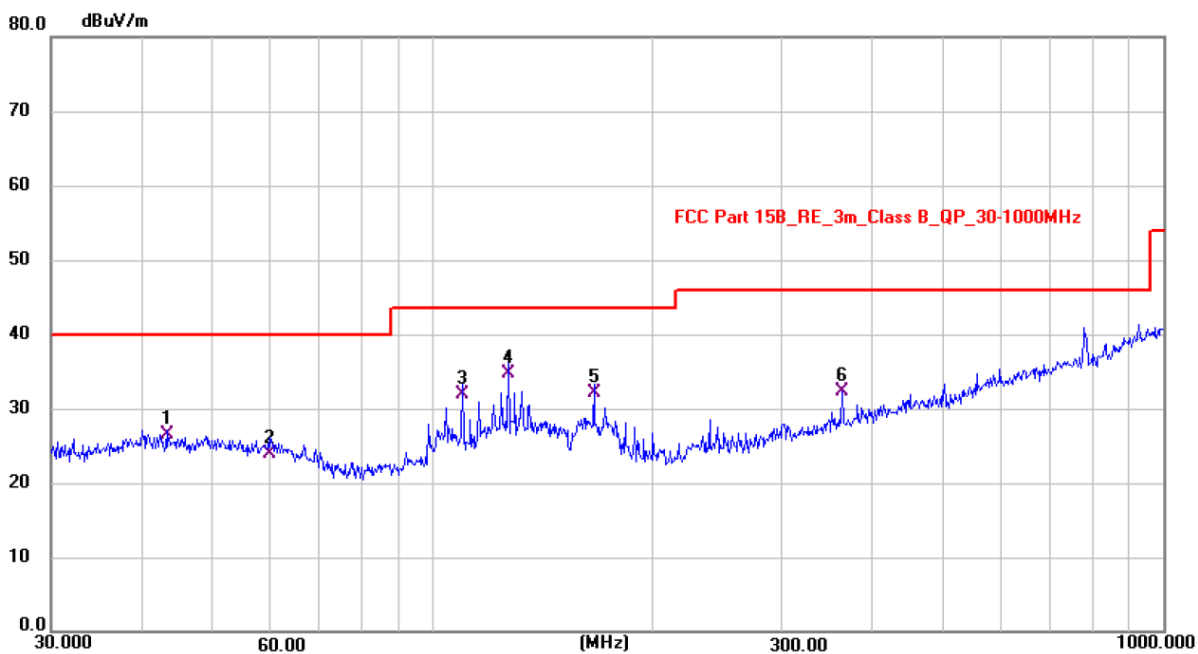
We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.
Detailed information please see the following page.

From 9KHz to 30MHz:	
Test Date : 2026.08.22	Temperature : 26℃
Test Engineer : Jensen Wang	Humidity : 54%
Test Mode : GFSK mode	
Test Results : PASS	
Note:	The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



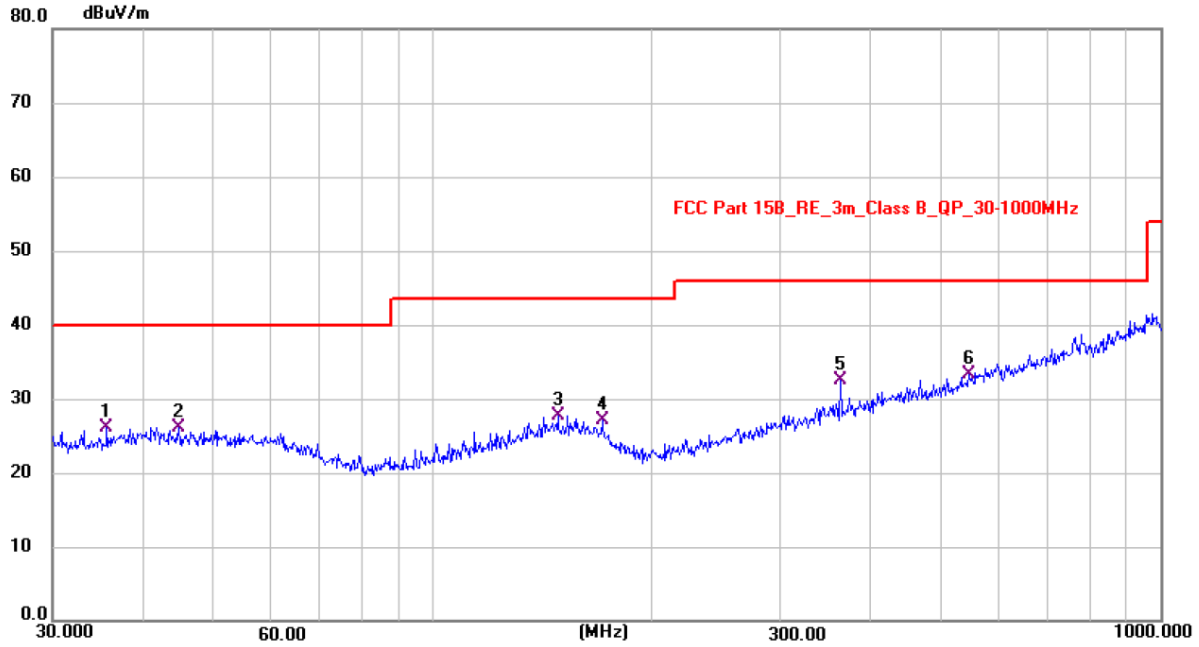
From 30MHz to 1000MHz:	
Test Date : 2026.08.22	Temperature : 26℃
Test Engineer : Jensen Wang	Humidity : 54%
Test Mode : GFSK mode	
Test Results : PASS	
Note:	<ol style="list-style-type: none">1. The test results are listed in next pages.2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.3. All modes have been tested, and only worst data of 2Mbps GFSK 2403.85MHz(DC 1.5V) mode was listed in this report.



Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.2964	12.55	14.04	26.59	40.00	-13.41	QP
2	59.8326	10.62	13.26	23.88	40.00	-16.12	QP
3	110.0851	19.81	12.02	31.83	43.50	-11.67	QP
4 *	126.9947	21.00	13.62	34.62	43.50	-8.88	QP
5	166.5783	17.58	14.62	32.20	43.50	-11.30	QP
6	364.1000	15.47	16.85	32.32	46.00	-13.68	QP

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.6865	12.46	13.65	26.11	40.00	-13.89	QP
2	44.7827	12.09	13.93	26.02	40.00	-13.98	QP
3	148.8320	12.48	15.13	27.61	43.50	-15.89	QP
4	171.3175	12.94	14.13	27.07	43.50	-16.43	QP
5	364.0999	15.68	16.85	32.53	46.00	-13.47	QP
6 *	546.1393	12.31	20.94	33.25	46.00	-12.75	QP

Note: Level = Reading + Factor Margin = Level - Limit

From 1GHz to 25GHz:	
Test Date : 2026.08.22	Temperature : 26℃
Test Engineer : Jensen Wang	Humidity : 54%
Test Mode : GFSK mode	
Test Results : PASS	
Note:	<ol style="list-style-type: none">1. The test results are listed in next pages.2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.



2Mbps:

Test Mode : GFSK TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4807.70	V	59.08	-13.25	45.83	74.00	-28.17	Peak
2	4807.70	V	47.75	-13.25	34.50	54.00	-19.50	Avg
3	7211.55	--	--	--	--	--	--	--
4	9615.40	--	--	--	--	--	--	--
5	4807.70	H	55.22	-13.25	41.97	74.00	-32.03	Peak
6	4807.70	H	46.06	-13.25	32.81	54.00	-21.19	Avg
7	7211.55	--	--	--	--	--	--	--
8	9615.40	--	--	--	--	--	--	--
Test Mode : GFSK TX Mid								
1	4883.70	V	60.06	-12.98	47.08	74.00	-26.92	Peak
2	4883.70	V	48.81	-12.98	35.83	54.00	-18.17	Avg
3	7325.55	--	--	--	--	--	--	--
4	9767.40	--	--	--	--	--	--	--
5	4883.70	H	58.30	-12.98	45.32	74.00	-28.68	Peak
6	4883.70	H	46.55	-12.98	33.57	54.00	-20.43	Avg
7	7325.55	--	--	--	--	--	--	--
8	9767.40	--	--	--	--	--	--	--
Test Mode : GFSK TX High								
1	4959.70	V	56.80	-12.70	44.10	74.00	-29.90	Peak
2	4959.70	V	48.97	-12.70	36.27	54.00	-17.73	Avg
3	7439.55	--	--	--	--	--	--	--
4	9919.40	--	--	--	--	--	--	--
5	4959.70	H	56.39	-12.70	43.69	74.00	-30.31	Peak
6	4959.70	H	48.24	-12.70	35.54	54.00	-18.46	Avg
7	7439.55	--	--	--	--	--	--	--
8	9919.40	--	--	--	--	--	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.								

4. Power Line Conducted Emission

4.1. Test Limits

Frequency (MHz)	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

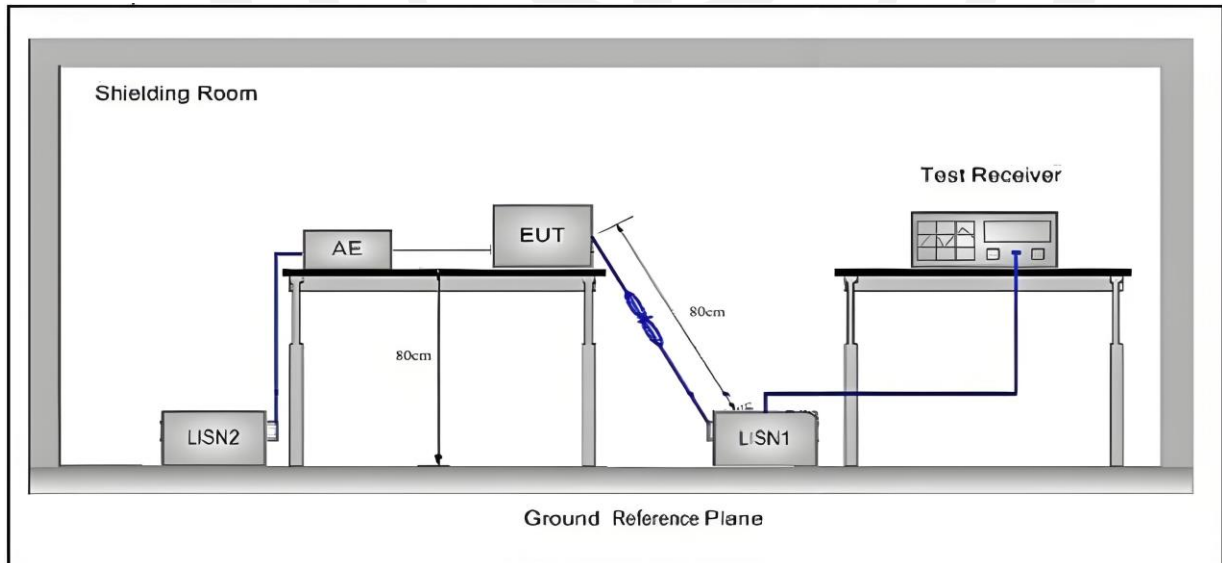
4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10-2020+Cor.

1-2023+C63.10a-2024+Errata to C63.10a-2024 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

4.3. Test Setup



4.4. Test Results

Test Date	: N/A	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note:	The EUT is supplied by Battery, so this item does not applicable.		



5. Out-of-band Emissions

5.1. Test Limits

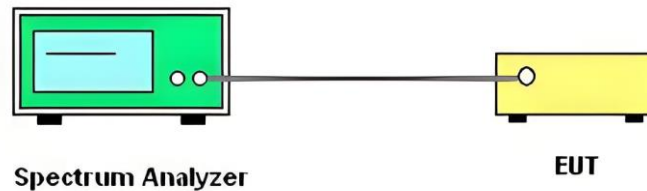
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in FCC Part 15.209(a) is not required.

5.2. Test Procedure

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

5.3. Test Setup



5.4. Test Results

PASS.

The test results are listed in next pages.

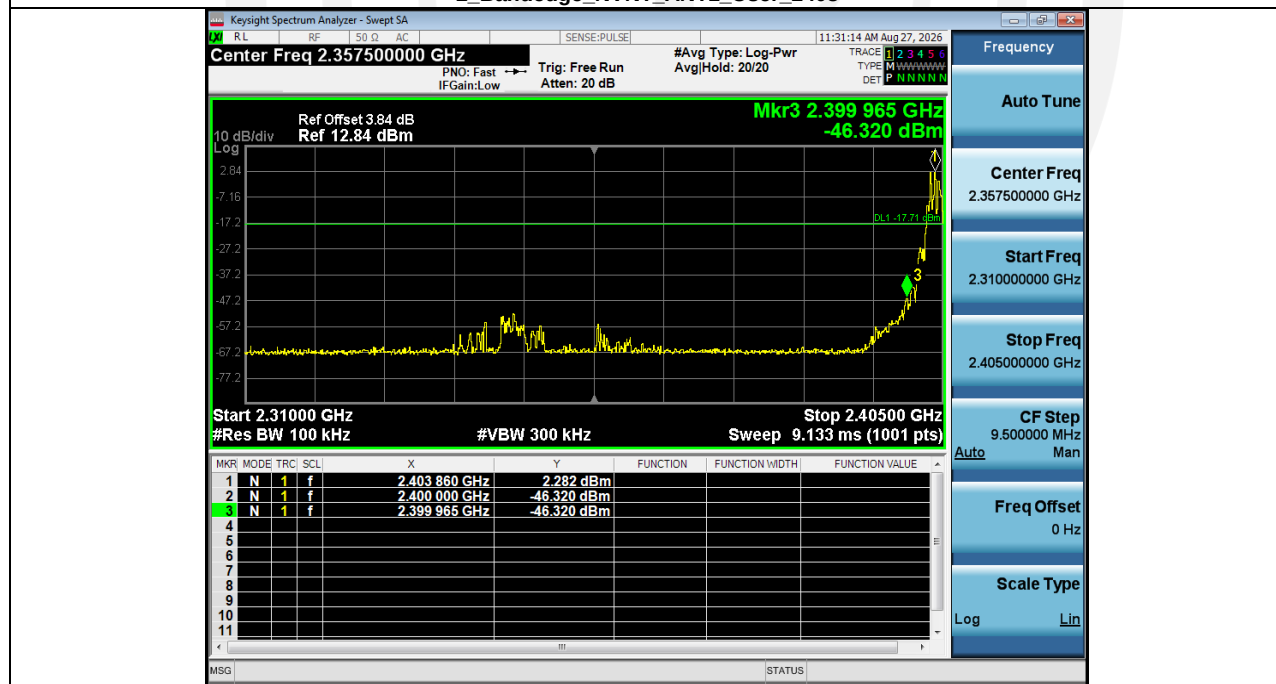
Band edge: Pass

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	GFSK	2403.85	2399.965	2.290	-46.320	-17.710	Pass
NVNT	ANT1	GFSK	2479.85	2483.875	2.350	-46.434	-17.650	Pass

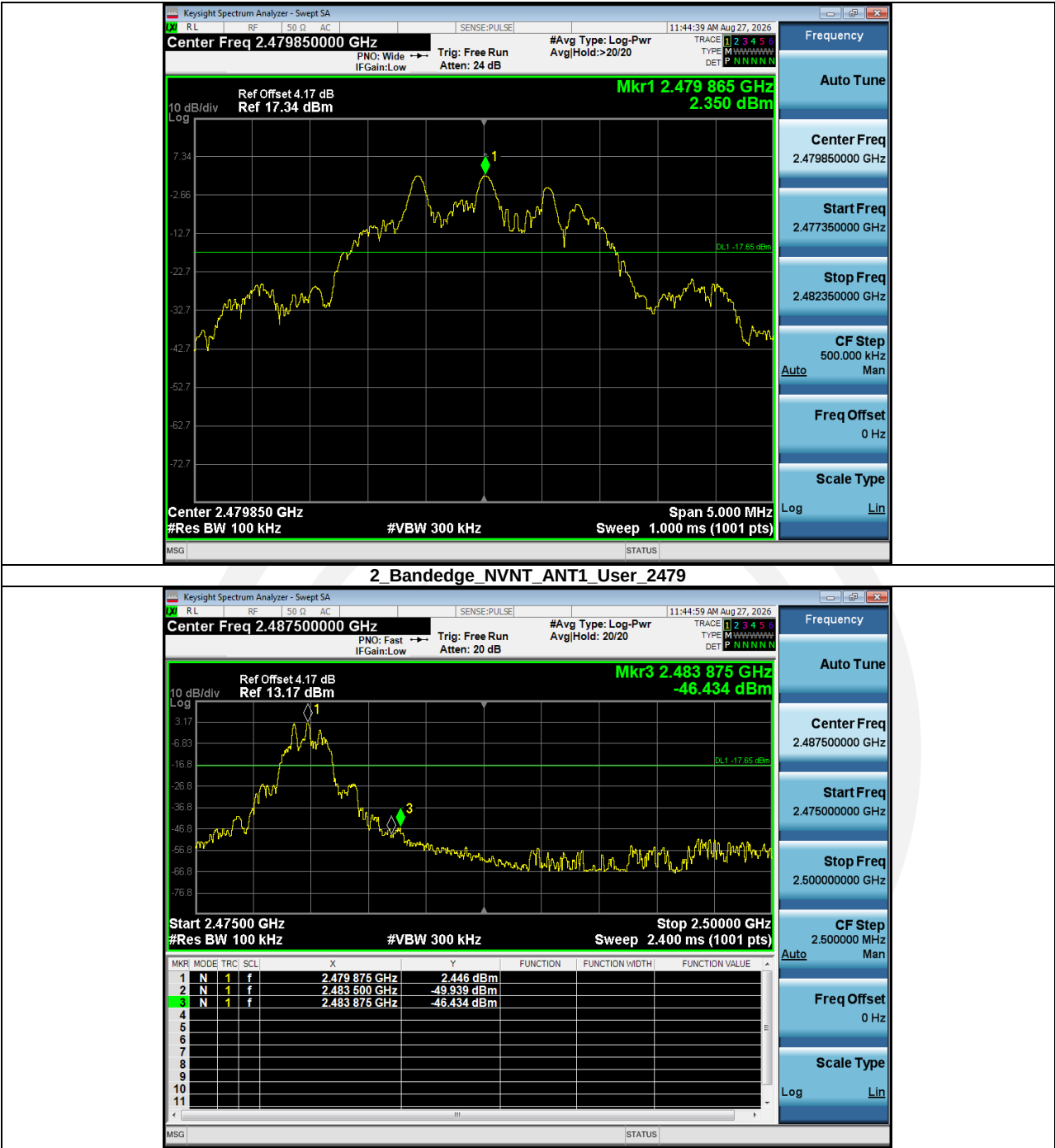
1. Reference_Level_NVNT_ANT1_User_2403



2. Bandedge_NVNT_ANT1_User_2403

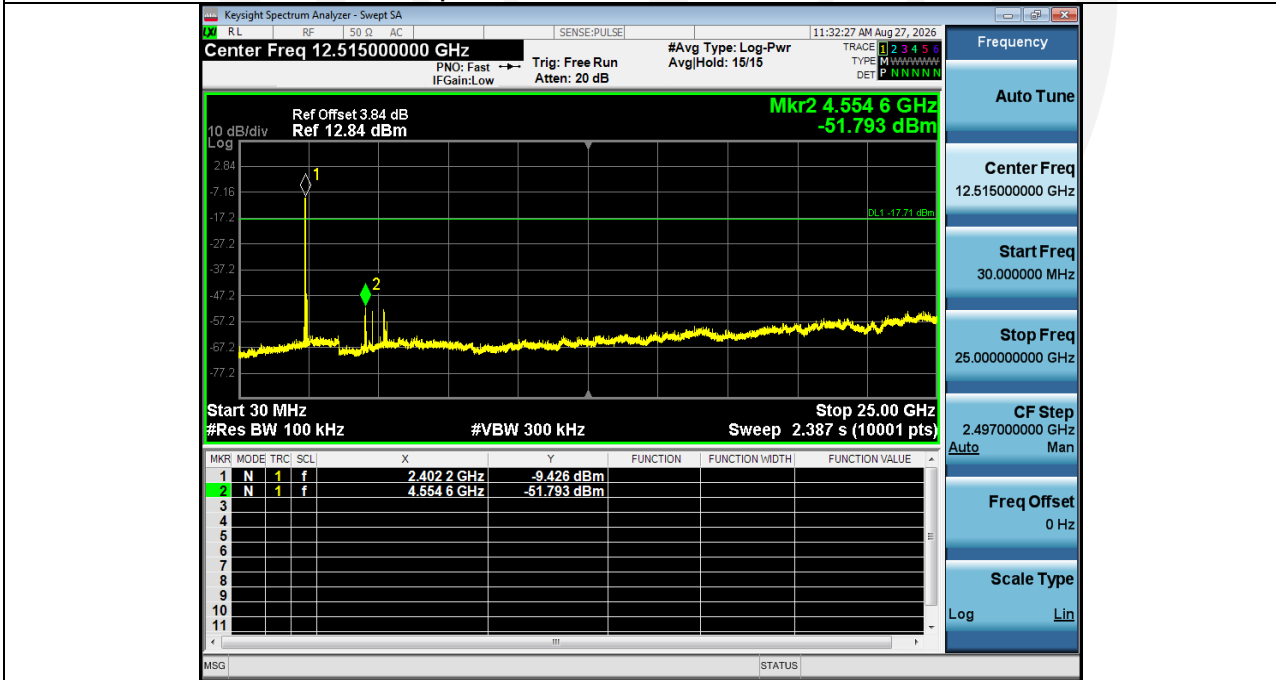


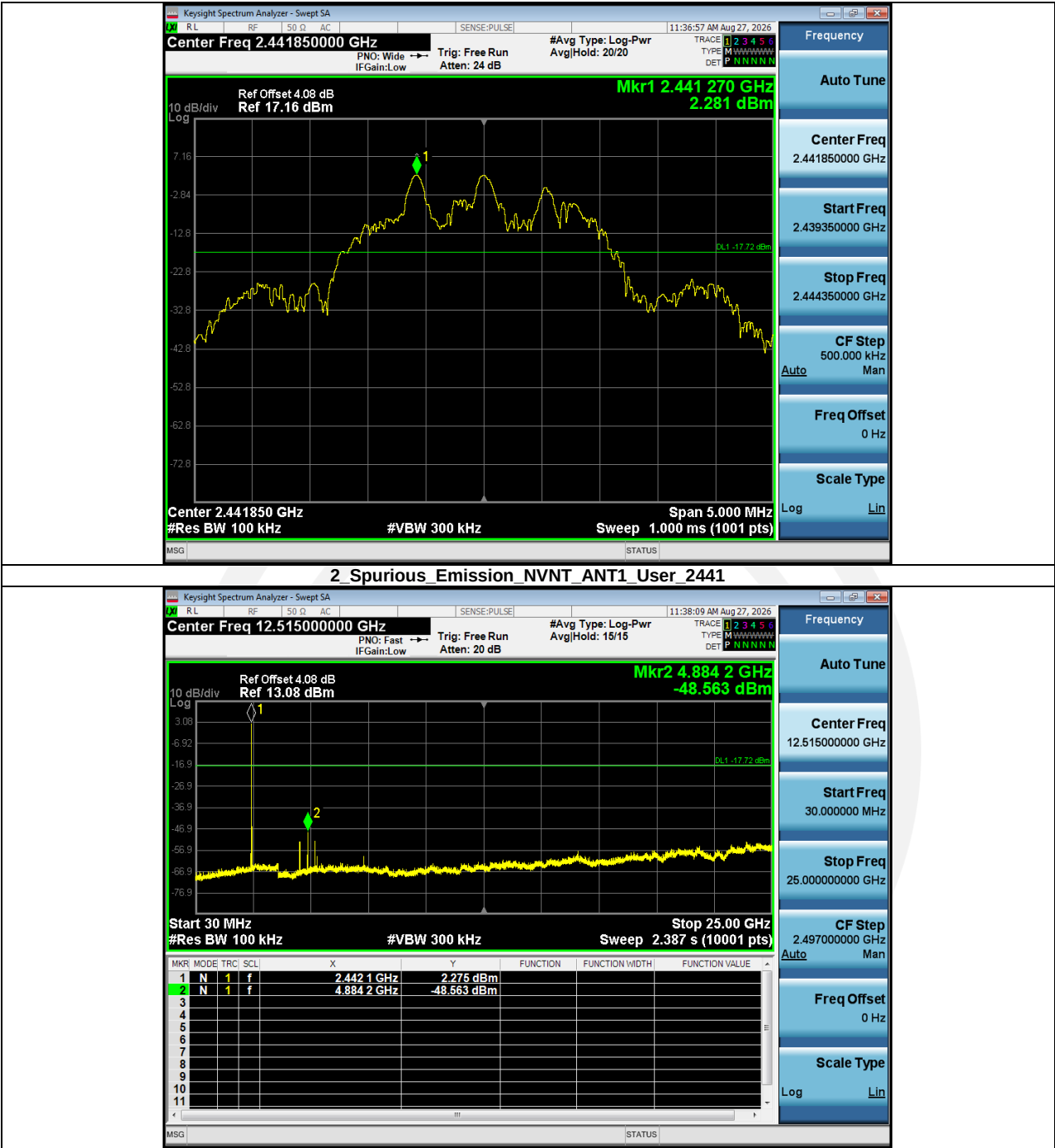
1. Reference_Level_NVNT_ANT1_User_2479



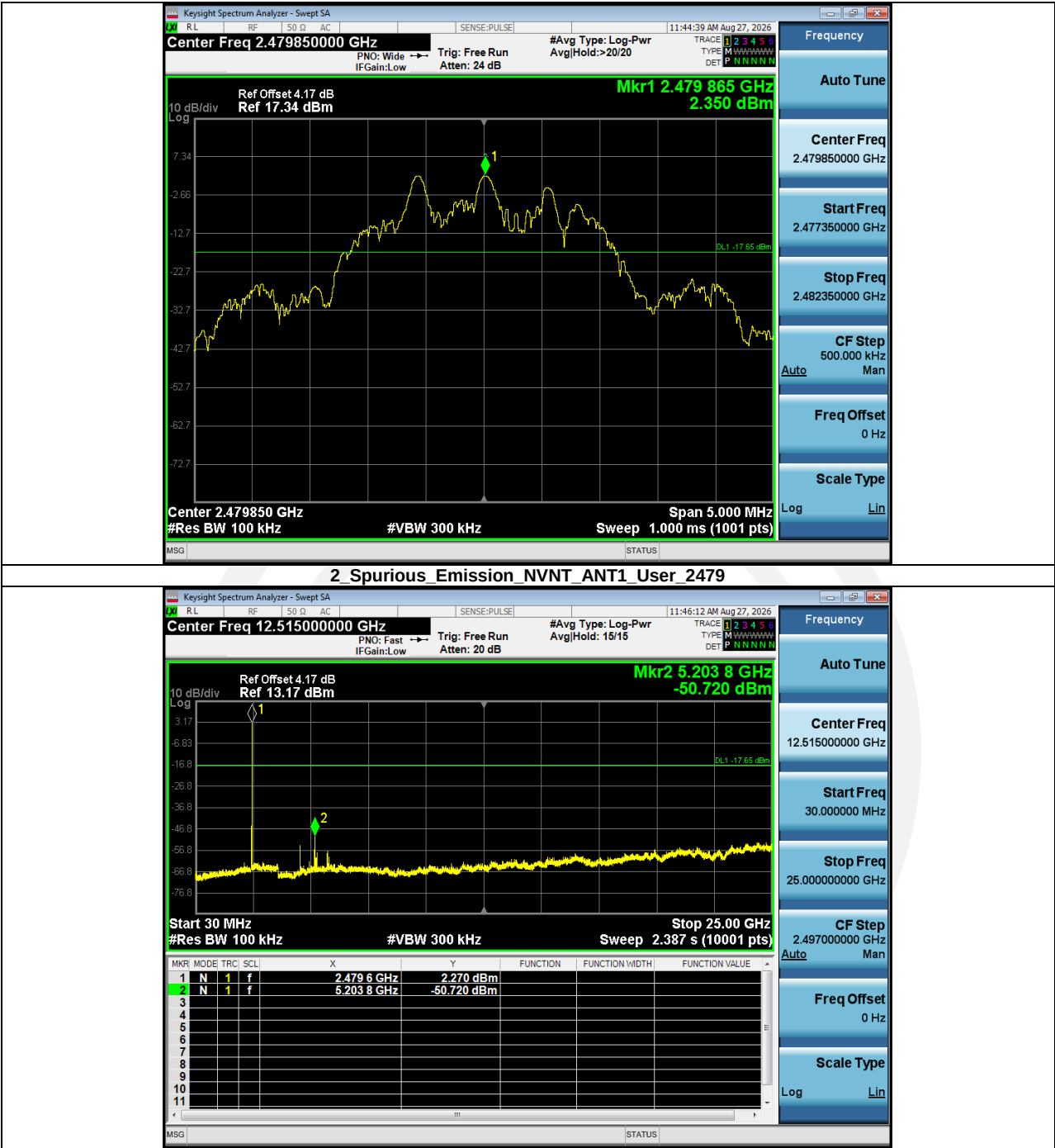
Spurious Emission: Pass

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	GFSK	2403.85	2.290	-51.793	-17.710	Pass
NVNT	ANT1	GFSK	2441.85	2.281	-48.563	-17.719	Pass
NVNT	ANT1	GFSK	2479.85	2.350	-50.720	-17.650	Pass

1 Reference Level NVNT_ANT1_User_2403**2 Spurious Emission NVNT_ANT1_User_2403****1 Reference Level NVNT_ANT1_User_2441**



1. Reference Level NVNT_ANT1_User_2479



6. Conducted Maximum Output Power

6.1. Test limits

Please refer FCC PART 15: 15.247.

Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1 W(30dBm)

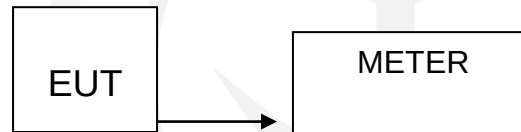
6.2. Test Procedure

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1.2 Maximum peak conducted output power.

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

1. Place the EUT on the table and set it in transmitting mode.
2. Connected the EUT's antenna port to peak power meter by 6dB attenuator.
3. Measure out each mode and each bands peak output power of EUT.

6.3. Note: The cable loss and attenuator loss were offset into measure device as amplitude offset. Test Setup



6.4. Test Results

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	2Mbps	2403.85	2.32	1.71	1000	Pass
NVNT	ANT1	2Mbps	2441.85	2.29	1.69	1000	Pass
NVNT	ANT1	2Mbps	2479.85	2.36	1.72	1000	Pass

7. Peak Power Spectral Density

7.1. Test limits

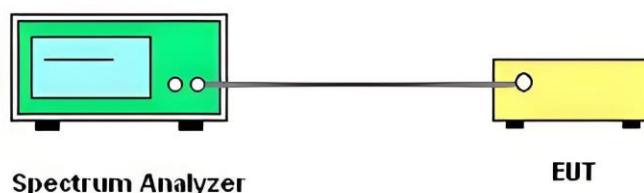
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

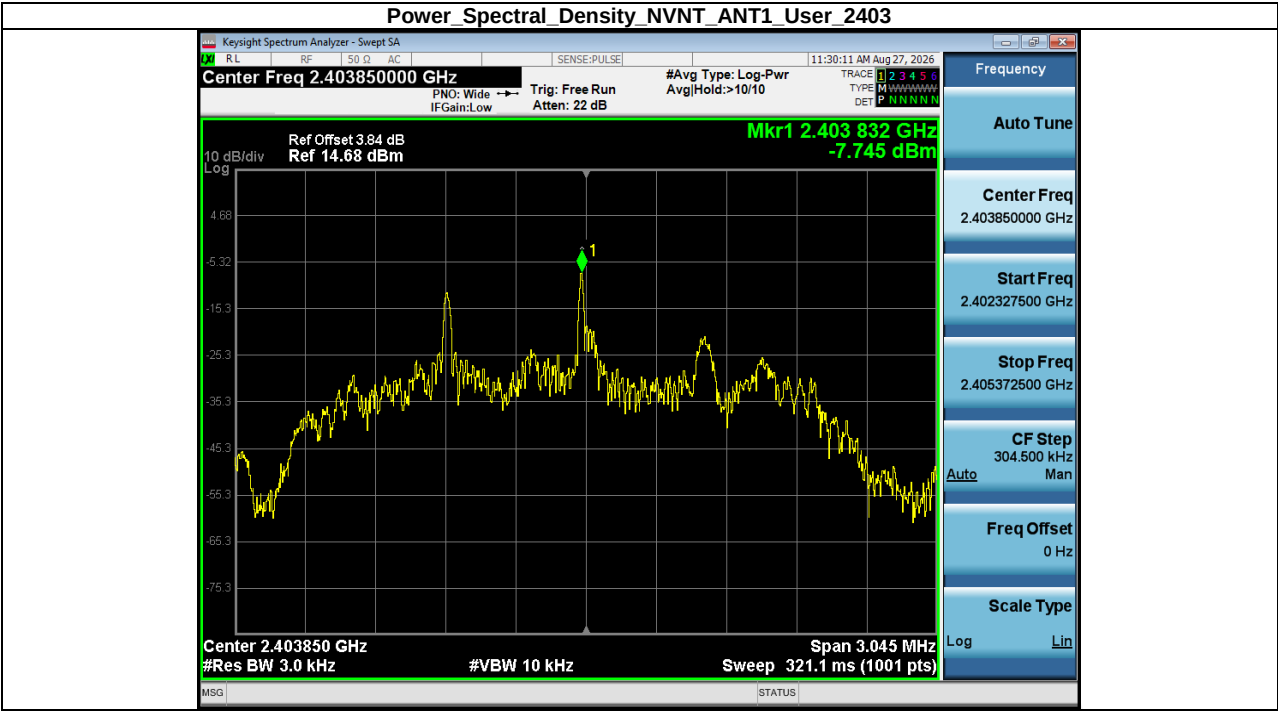
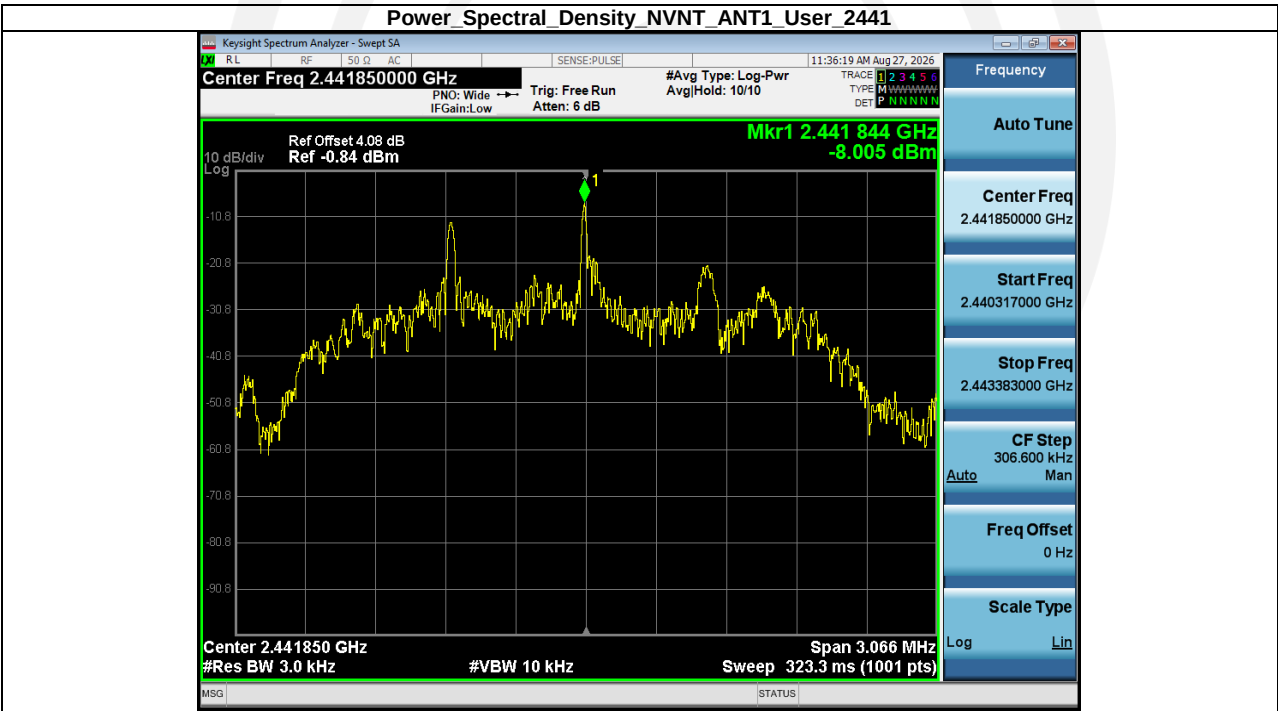
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$), VBW = 10kHz(Set the $\text{VBW} \geq 3 \times \text{RBW}$), span $\geq 1.5 \times \text{DTS bandwidth}$., detail see the test plot.
4. Record the max reading.
5. Repeat the above procedure until the measurements for all frequencies are completed.

7.3. Test Setup



7.4. Test Results

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	2Mbps	2403.85	-7.75	8	Pass
NVNT	ANT1	2Mbps	2441.85	-8.01	8	Pass
NVNT	ANT1	2Mbps	2479.85	-7.76	8	Pass



Power_Spectral_Density_NVNT_ANT1_User_2479



8. Bandwidth

8.1. Test limits

Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz

8.2. Test Procedure

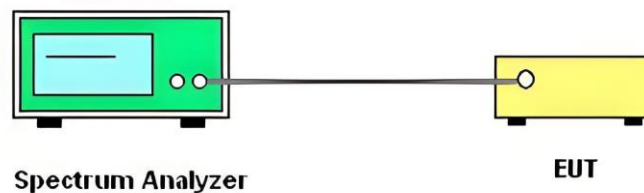
Details see the KDB558074 D01 Meas Guidance v05r02 and C63.10 section 6.9.3

a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b) The test receiver set RBW = 100kHz, VBW $\geq$ 3*RBW =300kHz, Peak Detector, Sweep time set auto, detail see the test plot.

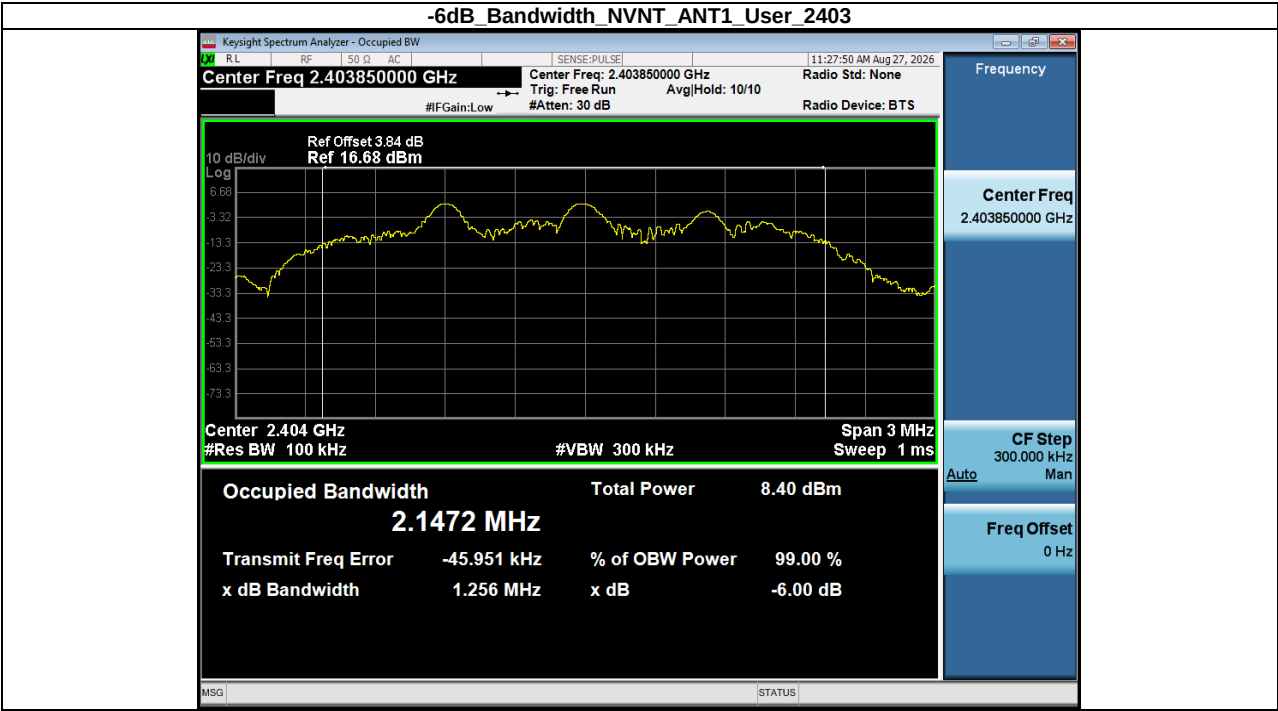
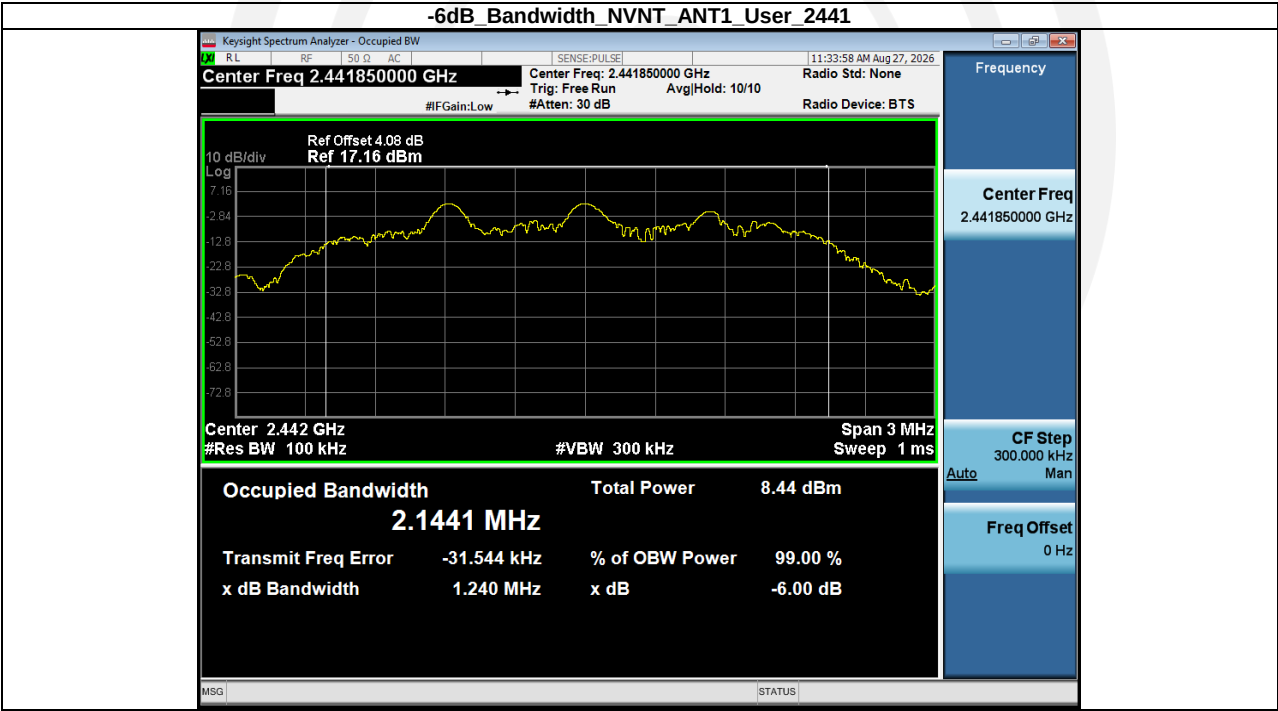
c) The test receiver set RBW =1-5%BW, VBW>3*RBW, Sweep time set auto, detail see the test plot for 99%Bandwidth.

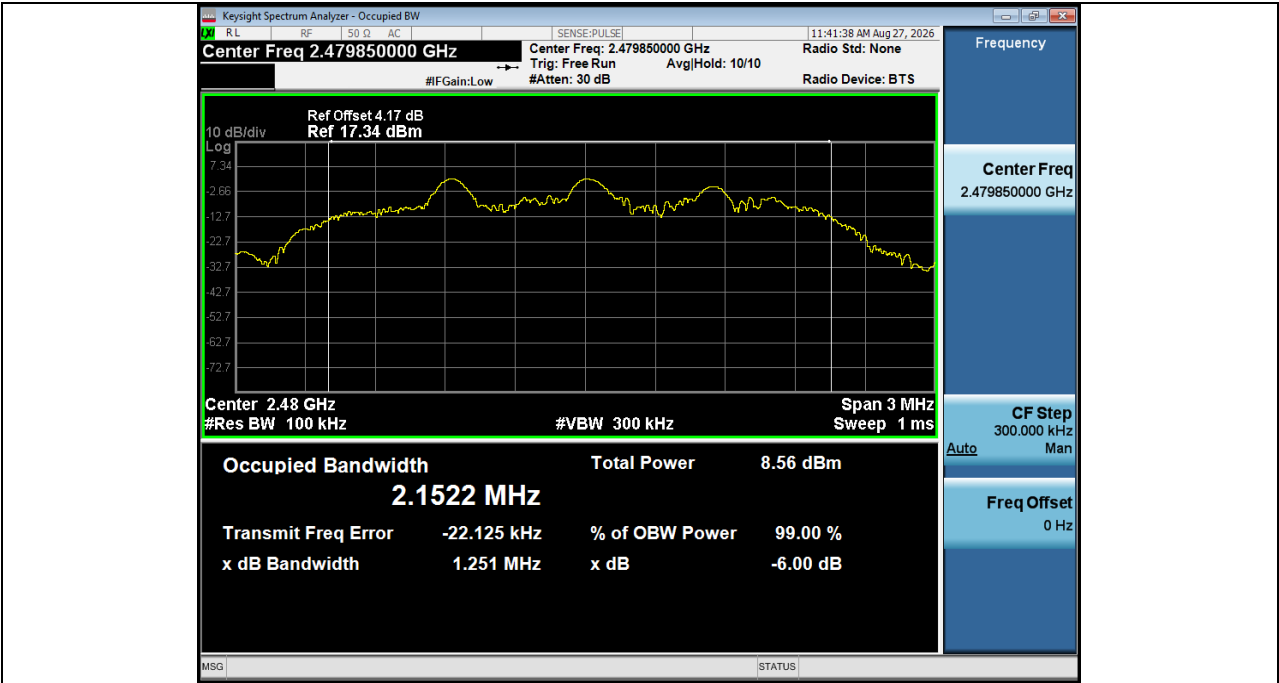
8.3. Test Setup



8.4. Test Results

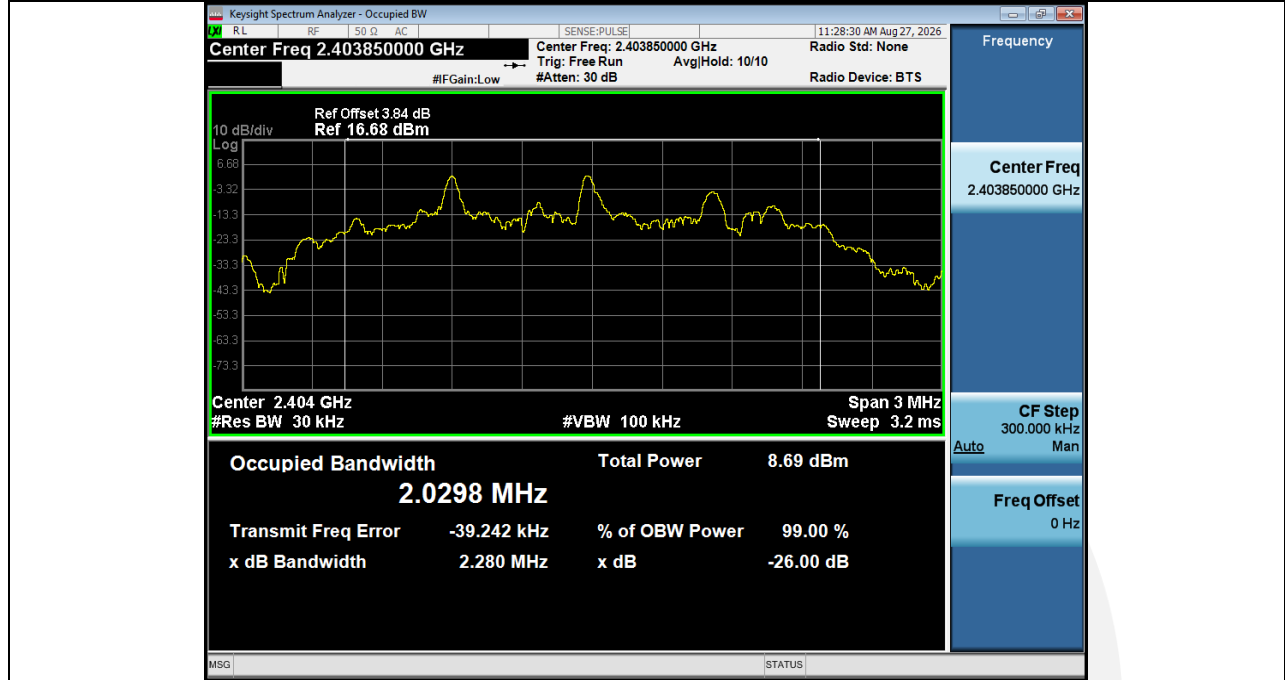
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	2Mbps	2403.85	1255.62	500	Pass
NVNT	ANT1	2Mbps	2441.85	1240.17	500	Pass
NVNT	ANT1	2Mbps	2479.85	1250.60	500	Pass



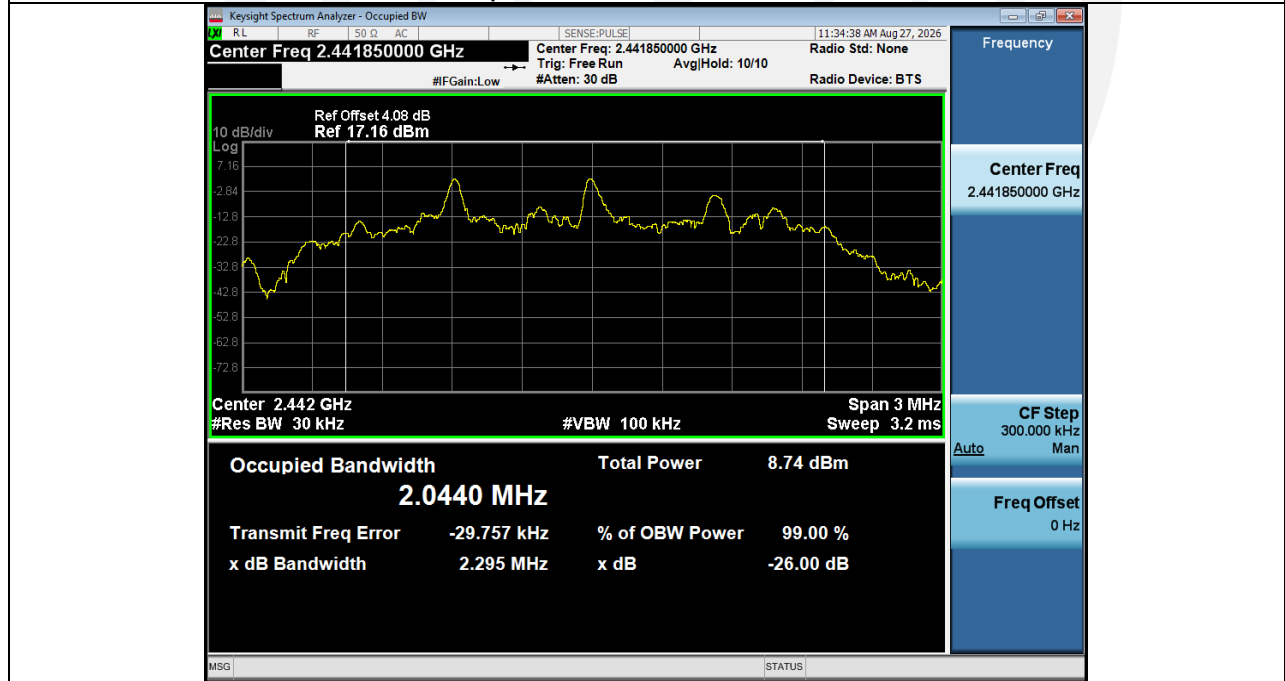


Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	2Mbps	2403.85	2.030
NVNT	ANT1	2Mbps	2441.85	2.044
NVNT	ANT1	2Mbps	2479.85	2.050

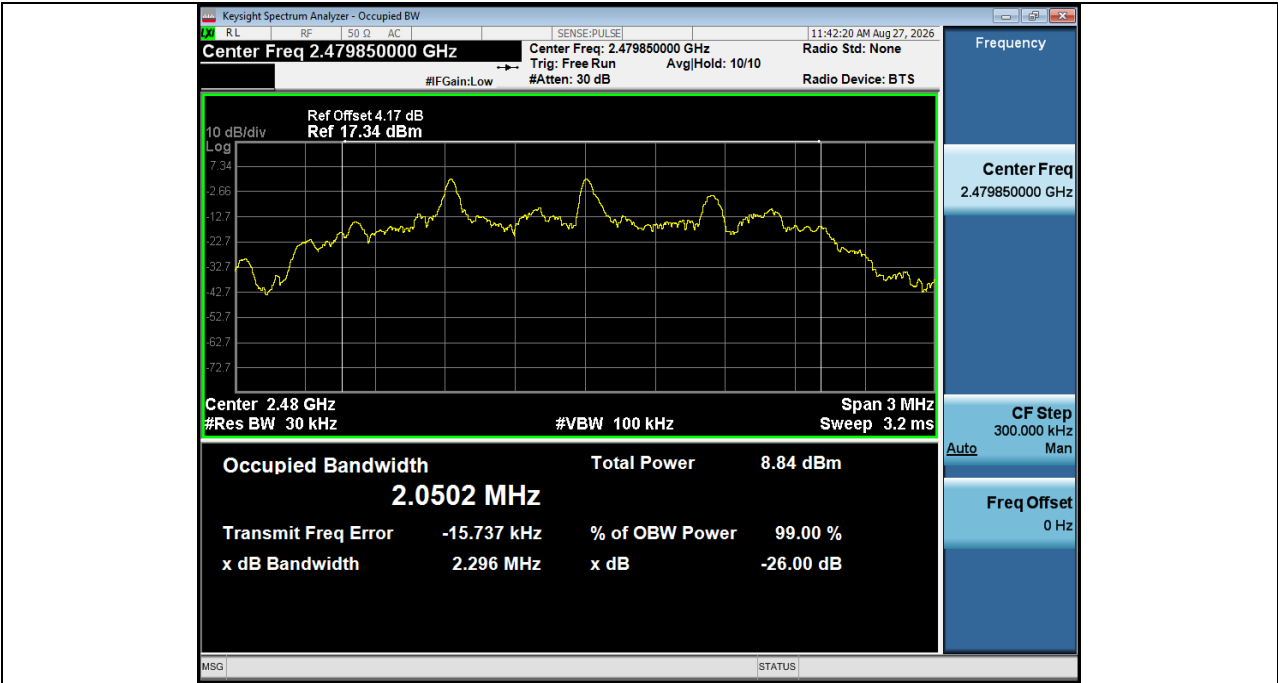
99% Occupied Bandwidth NVNT_ANT1_User_2403



99% Occupied Bandwidth NVNT_ANT1_User_2441



99% Occupied Bandwidth NVNT_ANT1_User_2479



9. Band Edge Test

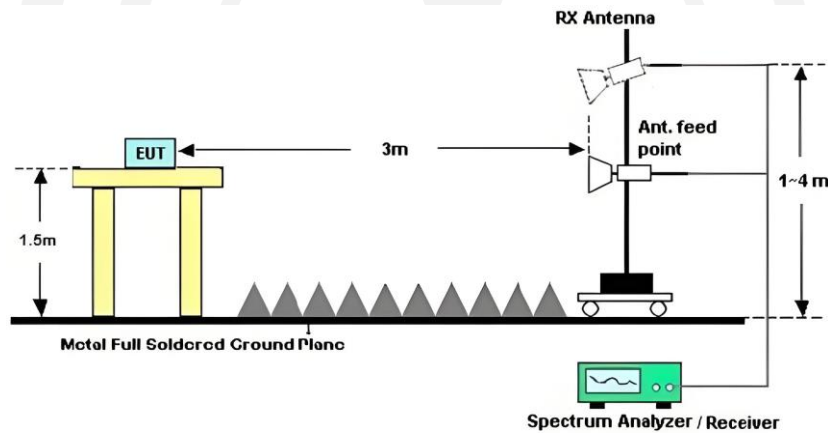
9.1. Test Limit

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241

9.2. Block Diagram of Test Setup



9.3. Test Procedure

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 section 6.10.5.2
 All restriction band and non- restriction band have been tested, only worse case is reported.
 Details see the KDB558074 D01 Meas Guidance v05r02

1. Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
2. Check the spurious emissions out of band.
3. RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 3MHz, RMS detector for AV value.

9.4. Test Results

Test Date : 2026.08.22					Temperature : 26℃			
Test Engineer : Jensen Wang					Humidity : 54%			
Test Results : PASS								
Frequency Range : 2310MHz~2390MHz								
Test Mode : 2Mbps: GFSK TX 2403.85MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	60.51	-20.45	40.06	74.00	-33.94	Peak
2	2390	H	--	-20.45	--	54.00	--	Avg
1	2390	V	60.94	-20.45	40.49	74.00	-33.51	Peak
2	2390	V	--	-20.45	--	54.00	--	Avg
Frequency Range : 2483.5MHz~2500MHz								
Test Mode : 2Mbps: GFSK TX 2479.85MHz								
1	2483.5	H	63.69	-20.15	43.54	74.00	-30.46	Peak
2	2483.5	H	--	-20.15	--	54.00	--	Avg
1	2483.5	V	64.72	-20.15	44.57	74.00	-29.43	Peak
2	2483.5	V	--	-20.15	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

10. Antenna Requirement

10.1. Standard Requirement

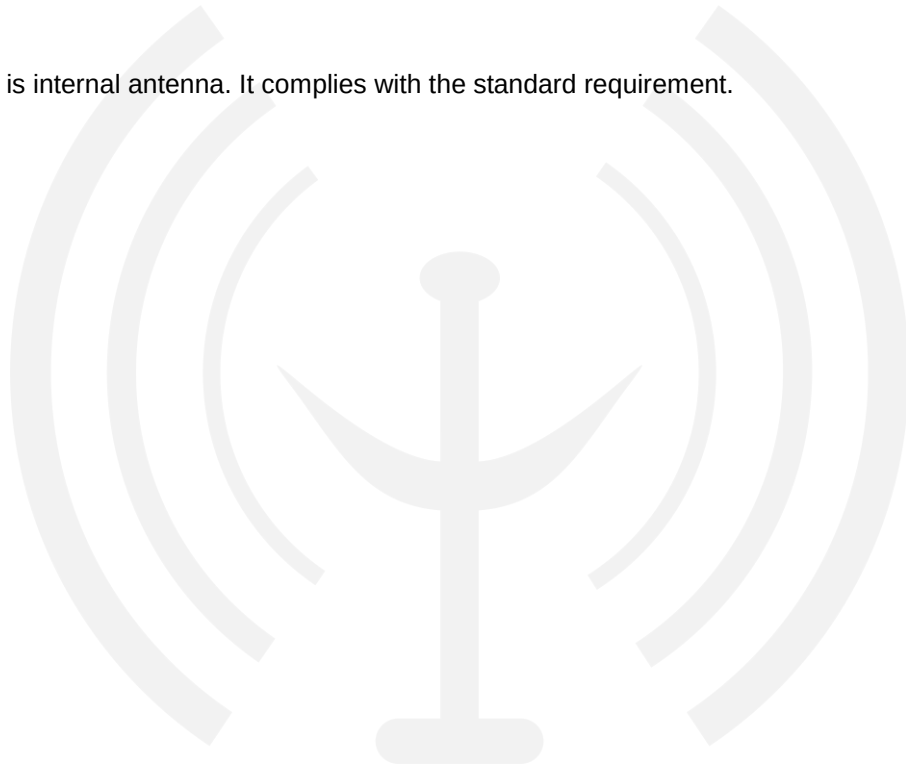
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. 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.

10.2. Antenna Connected Construction

The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

10.3. Results

The EUT antenna is internal antenna. It complies with the standard requirement.



11. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

12. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

