

FCC RADIO TEST REPORT

Applicant..... : Monoprice Inc.

Address..... : 1 Pointe Drive, Suite 400, Brea CA 92821 USA

Manufacturer..... : Monoprice Inc.

Address..... : 1 Pointe Drive, Suite 400, Brea CA 92821 USA

Product Name..... : BT-700ANC Over-Ear Bluetooth® Headphones with aptX™ and Active Noise
Cancelling

Brand Name..... : N/A

Model No. : 49663

FCC ID..... : 2ADDH-49663

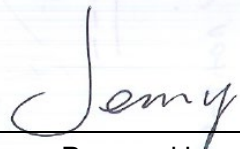
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.247)

Receipt Date of Samples..... : July 11, 2026

Date of Tested..... : July 11, 2026 to July 22, 2026

Date of Report..... : September 10, 2026

This report shows that above equipment is technically compliant with the requirements of the standards above.
All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore
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Prepared by

Jenny Liu / Project Engineer



Approved by

Iori Fan / Authorized Signatory

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1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.247(a)(1)	Channel Separation test	PASS	---
§15.247(a)(1)	20dB Bandwidth	PASS	---
§15.247(a)(1)(iii)	Hopping Channel Number	PASS	---
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	PASS	---
§15.247(b)	Max Peak output Power test	PASS	---
§15.247(d)	Band edge test	PASS	---
§15.207 (a)	AC Power Conducted Emission	PASS	---
§15.247(d), §15.209, §15.205	Radiated Emission	PASS	---
§15.203	Antenna Requirement	PASS	---
§15.247(d)	Conducted Spurious Emission	PASS	---

2. General Description of EUT

Product Information	
Product Name:	BT-700ANC Over-Ear Bluetooth® Headphones with aptX™ and Active Noise Cancelling
Main Model Name:	49663
Additional Model Name:	N/A
Model Difference:	N/A
S/N:	2607-3893
Brand Name:	N/A
Hardware Version:	V1.5
Software Version:	V2.0
Rating:	DC 5V by USB port; DC 3.7V Internal li-ion batter
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	N/A
Cable:	N/A
Li-ion Battery:	Manufacturer: Guangdong Hongjie New Energy Co., Ltd. Model: 603035 Rated battery voltage: 3.7V DC Rated battery capacity: 600mAh, 2.2Wh
Additional Information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification (Bluetooth)	
Bluetooth Version:	V5.4
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channel:	79 (refer to following channel list for details)
Channel Space:	1MHz
Antenna Type:	Chip Antenna
Number of Antenna	1
Antenna Gain:	0.21 dBi (Declared by the manufacturer)
Note: The report only applies to BDR+EDR feature of EUT.	

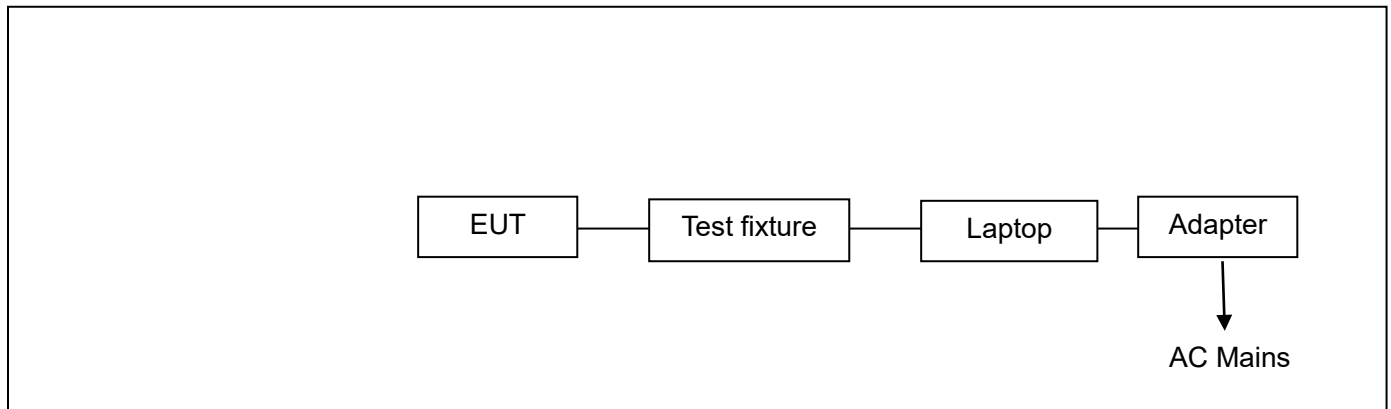
Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---

3. Test Channels and Modes Detail

No.	Mode	Channel	Frequency (MHz)	Modulation
1.	TX	Hopping	2402-2480	GFSK / $\pi/4$ -DQPSK / 8DPSK
2.	TX	Low	2402	GFSK / $\pi/4$ -DQPSK / 8DPSK
3.	TX	Mid	2441	GFSK / $\pi/4$ -DQPSK / 8DPSK
4.	TX	High	2480	GFSK / $\pi/4$ -DQPSK / 8DPSK
5.	BT Link	---	---	---

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

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

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	Laptop	Lenovo	TP00067 A	PF-0DS3YC 15/12	I/P: AC 100-240V 50-60Hz, 1.8A O/P: DC 20V 3.25A	Provide by the Lab
2.	Adapter of Laptop	Delta	ADLX65 NLC3A	---	AC Line: 1.10m unshielded DC Line: 1.15m unshielded with a core	Provide by the Lab
3.	Test fixture	---	---	---	----	Provide by the manufacturer

No.	Test Software	Modulation	Power Setting
1.	Blue Test3	GFSK	4
2.		$\pi/4$ -DQPSK	4
3.		8DPSK	4

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2027 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Room 101, 1101, Building 2, No. 61, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan, Guangdong, People's Republic of China

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.247

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

References Test Guidance:

DTS KDB 558074 D01 15.247 Meas Guidance v05r02

Remark:

The EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	Channel Separation test	1	DC 3.7V	Chance	See note 1
2.	20dB Bandwidth	2-4	DC 3.7V	Chance	See note 1
3.	Hopping Channel Number	1	DC 3.7V	Chance	See note 1
4.	Time of Occupancy (Dwell Time)	1	DC 3.7V	Chance	See note 1
5.	Max Peak output Power test	2-4	DC 3.7V	Chance	See note 1
6.	Band edge test	1-4	DC 3.7V	Chance	See note 1
7.	AC Power Conducted Emission	1-4	AC 120V 60Hz	Chance	See note 1
8.	Radiated Emission	1-4	DC 3.7V AC 120V 60Hz	Chance	See note 1
9.	Antenna Requirement	---	---	---	---
10.	Conducted Spurious Emission	1-4	DC 3.7V	Chance	See note 1

Note:

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35℃, 30~70%, 86~106kPa.
2. DC 3.7V come from Internal battery and AC 120V 60Hz come from adapter. Only the worst case was recorded in the report.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.46 dB	---
2.	Radiated Emission	9kHz ~ 30MHz	±5.63 dB	---
		30MHz ~ 1GHz	±5.63 dB	---
		1GHz ~ 18GHz	±5.16 dB	---
		18GHz ~ 40GHz	±5.16 dB	---
3.	Conducted Spurious Emissions	10Hz ~ 40GHz	±1.06 dB	---
4.	RF Output Power	10Hz ~ 40GHz	±1.08 dB	---
5.	Power Spectral Density	10Hz ~ 40GHz	±1.08 dB	---
6.	Occupied Channel Bandwidth	---	±0.71 %	---
7.	Dwell time	---	±2ms	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBUV)	Correct Factor (dB)	Measurement (dBUV)	Limit (dBUV)	Over (dB)	Detector
0.1660	31.00	10.60	41.60	65.16	-23.56	QP
Where, Freq. = Emission frequency in MHz Reading Level = Spectrum Analyzer/Receiver Reading Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation Measurement = Reading + Corrector Factor Limit = Limit stated in standard Margin = Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Radiated Spurious Emissions and Restricted Bands						
Freq. (MHz)	Reading Level (dBUV)	Correct Factor (dB/m)	Measurement (dBUV/m)	Limit (dBUV/m)	Over (dB)	Detector
65.8900	26.20	-7.90	18.30	40.00	-21.70	QP
Where, Freq. = Emission frequency in MHz Reading Level = Spectrum Analyzer/Receiver Reading Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier Measurement = Reading + Corrector Factor Limit = Limit stated in standard Over = Margin, which calculated by Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

13. Test Items and Results

13.1 Conducted Emissions Measurement

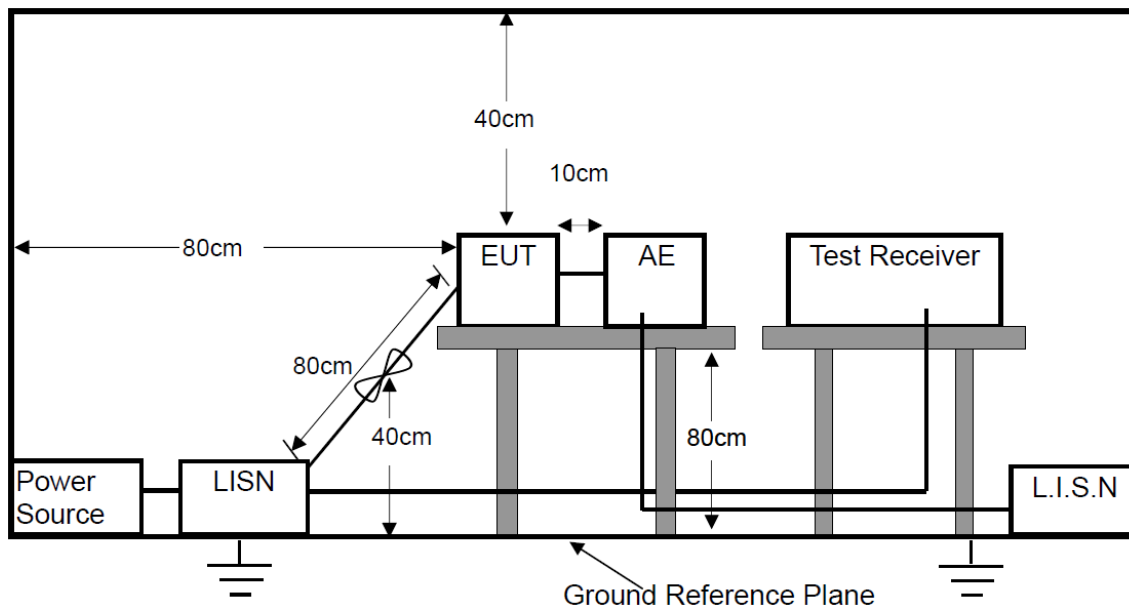
LIMITS

According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

- Note:
1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

PASS

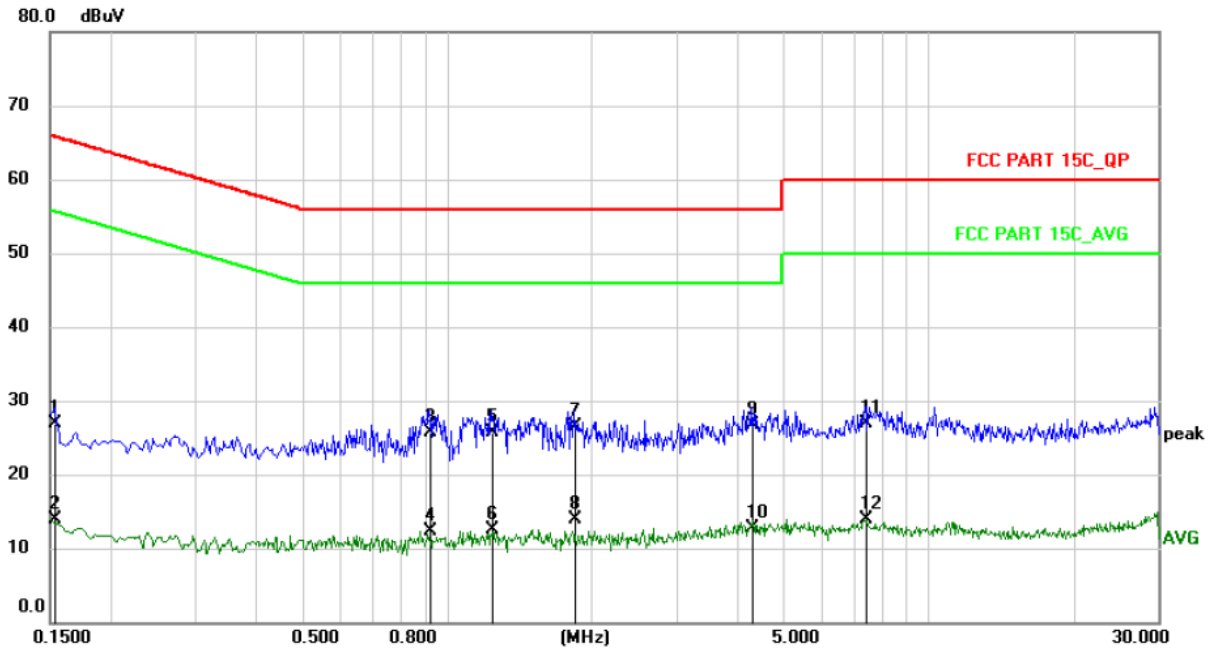
Please refer to the following pages of the worst case.

M/N: 49663	Testing Voltage: AC 120V / 60Hz
Phase: L1	Detector: QP & AVG
Test Mode: 1 (8DPSK)	

Conducted Emission Measurement

Date: 2026/7/20

Time: 17:36:08



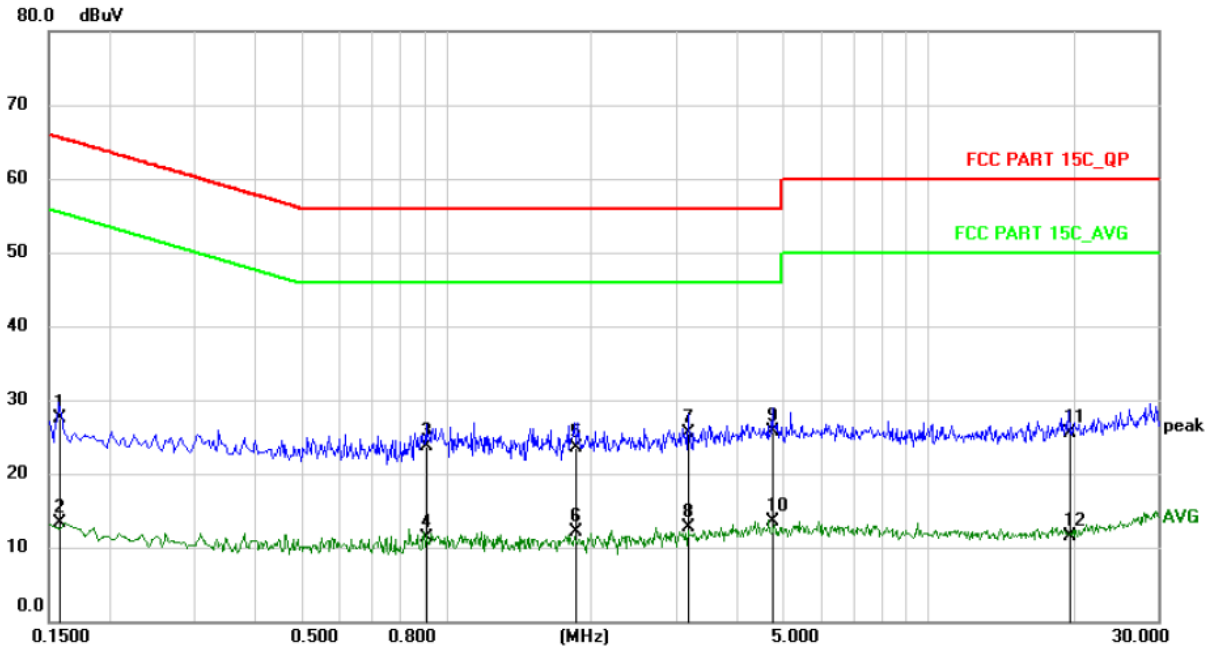
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1539	6.11	20.74	26.85	65.79	-38.94	QP	
2	0.1539	-6.77	20.74	13.97	55.79	-41.82	AVG	
3	0.9220	4.50	21.16	25.66	56.00	-30.34	QP	
4	0.9220	-8.81	21.16	12.35	46.00	-33.65	AVG	
5	1.2420	4.62	21.12	25.74	56.00	-30.26	QP	
6	1.2420	-8.63	21.12	12.49	46.00	-33.51	AVG	
7	1.8460	5.57	21.03	26.60	56.00	-29.40	QP	
8	1.8460	-7.19	21.03	13.84	46.00	-32.16	AVG	
9 *	4.2980	6.09	20.66	26.75	56.00	-29.25	QP	
10	4.2980	-8.04	20.66	12.62	46.00	-33.38	AVG	
11	7.4260	6.69	20.19	26.88	60.00	-33.12	QP	
12	7.4260	-6.31	20.19	13.88	50.00	-36.12	AVG	

M/N: 49663	Testing Voltage: AC 120V / 60Hz
Phase: N	Detector: QP & AVG
Test Mode: 1 (8DPSK)	

Conducted Emission Measurement

Date: 2026/7/20

Time: 17:32:49



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1580	6.76	20.71	27.47	65.57	-38.10	QP	
2	0.1580	-7.40	20.71	13.31	55.57	-42.26	AVG	
3	0.9100	2.56	21.12	23.68	56.00	-32.32	QP	
4	0.9100	-9.88	21.12	11.24	46.00	-34.76	AVG	
5	1.8540	2.51	20.98	23.49	56.00	-32.51	QP	
6	1.8540	-8.82	20.98	12.16	46.00	-33.84	AVG	
7	3.1780	4.70	20.78	25.48	56.00	-30.52	QP	
8	3.1780	-8.01	20.78	12.77	46.00	-33.23	AVG	
9 *	4.7500	5.11	20.55	25.66	56.00	-30.34	QP	
10	4.7500	-7.00	20.55	13.55	46.00	-32.45	AVG	
11	19.6299	5.28	20.30	25.58	60.00	-34.42	QP	
12	19.6299	-8.72	20.30	11.58	50.00	-38.42	AVG	

13.2 Radiated Spurious Emissions and Restricted Bands Measurement

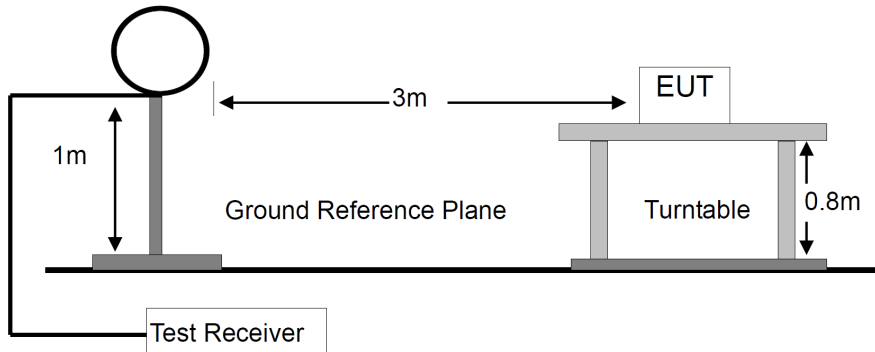
LIMITS

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		$\mu\text{V/m}$
0.009 ~ 0.490	300	$2400/F(\text{kHz})$
0.490 ~ 1.705	30	$24000/F(\text{kHz})$
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

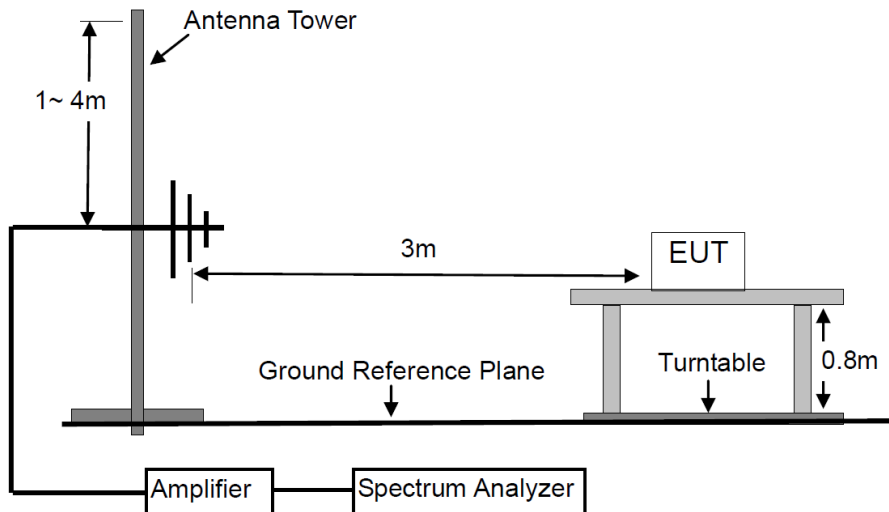
- Remark:
- (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$.
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
 - (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

BLOCK DIAGRAM OF TEST SETUP

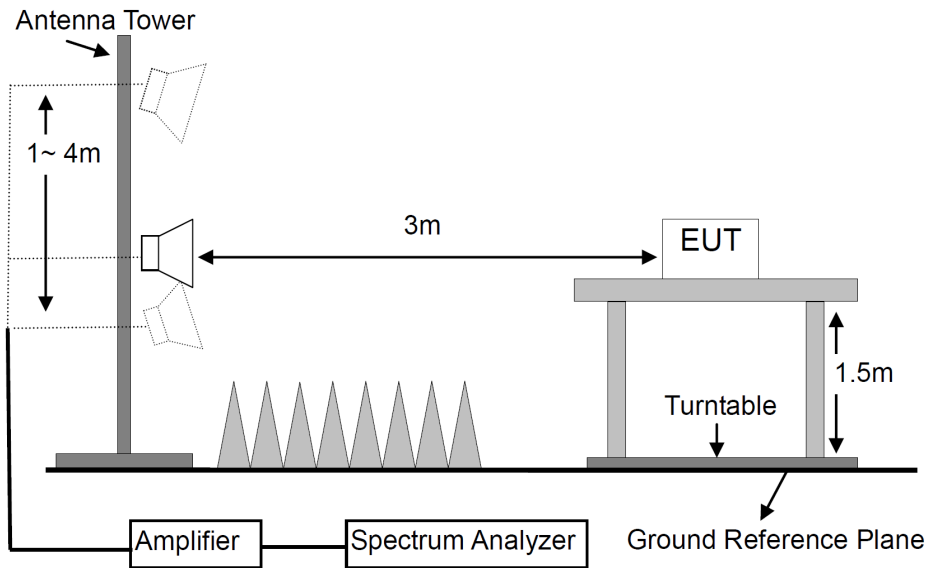
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- For the radiated emission test above 1GHz:

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna 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.

- e. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.
- g. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type.

The worst case was found when the EUT was positioned on X axis for radiated emission.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

TEST RESULTS

PASS

Please refer to the following pages of the worst case.

M/N: 49663

Testing Voltage: DC 3.7V

Polarization: Horizontal

Detector: QP

Test Mode: 4 (8DPSK)

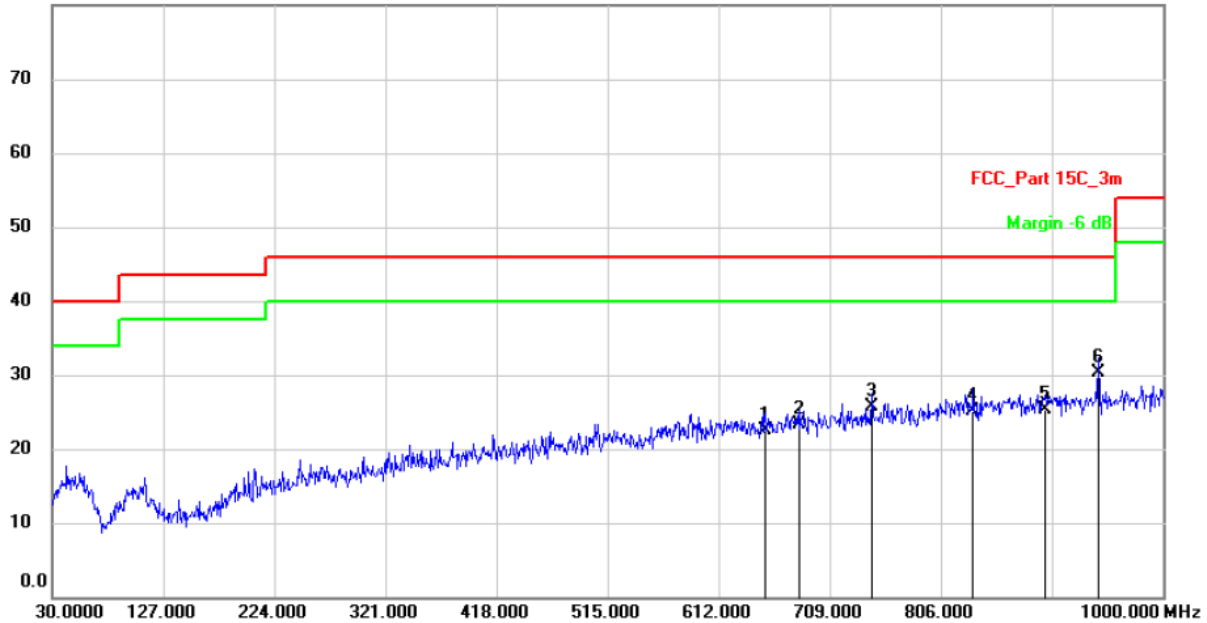
Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 14:26:50

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		652.7400	22.46	0.08	22.54	46.00	-23.46	QP	
2		682.8100	22.59	0.66	23.25	46.00	-22.75	QP	
3		745.8600	23.99	1.64	25.63	46.00	-20.37	QP	
4		834.1300	22.16	2.99	25.15	46.00	-20.85	QP	
5		897.1800	21.60	3.72	25.32	46.00	-20.68	QP	
6	*	943.7400	26.54	3.81	30.35	46.00	-15.65	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: 49663

Testing Voltage: DC 3.7V

Polarization: Vertical

Detector: QP

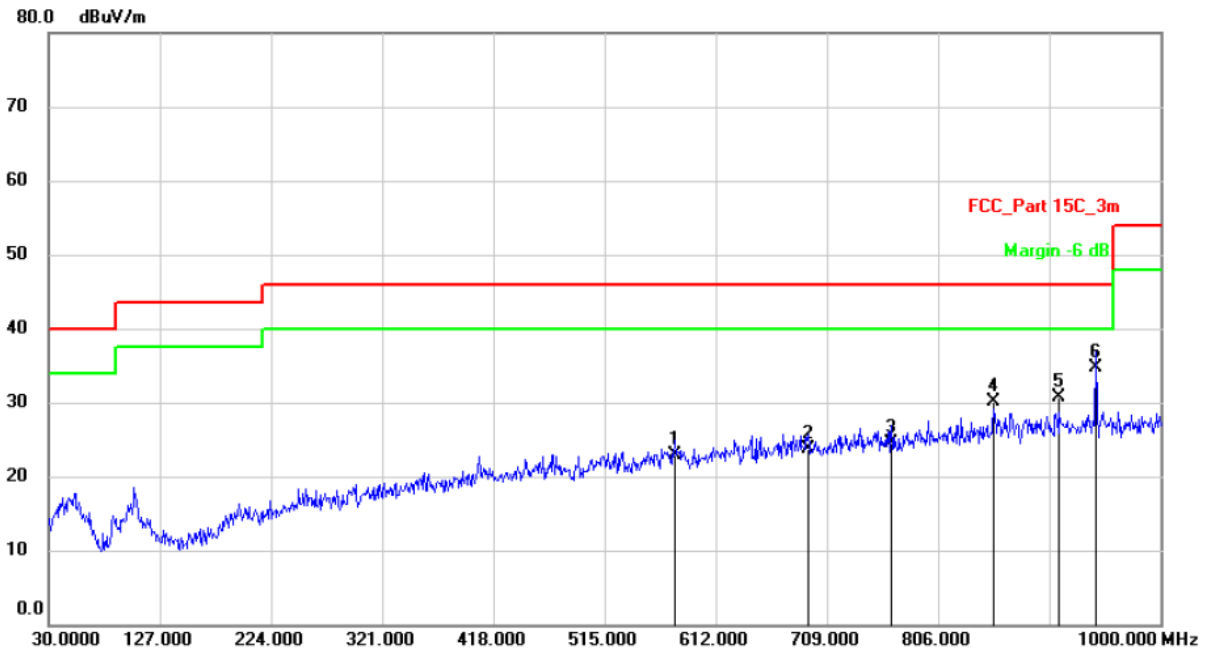
Test Mode: 4 (8DPSK)

Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 14:19:25



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		576.1100	24.03	-1.18	22.85	46.00	-23.15	QP	
2		692.5100	22.84	0.84	23.68	46.00	-22.32	QP	
3		765.2600	22.50	1.92	24.42	46.00	-21.58	QP	
4		854.5000	26.68	3.33	30.01	46.00	-15.99	QP	
5		911.7300	26.91	3.74	30.65	46.00	-15.35	QP	
6	*	943.7400	30.94	3.81	34.75	46.00	-11.25	QP	

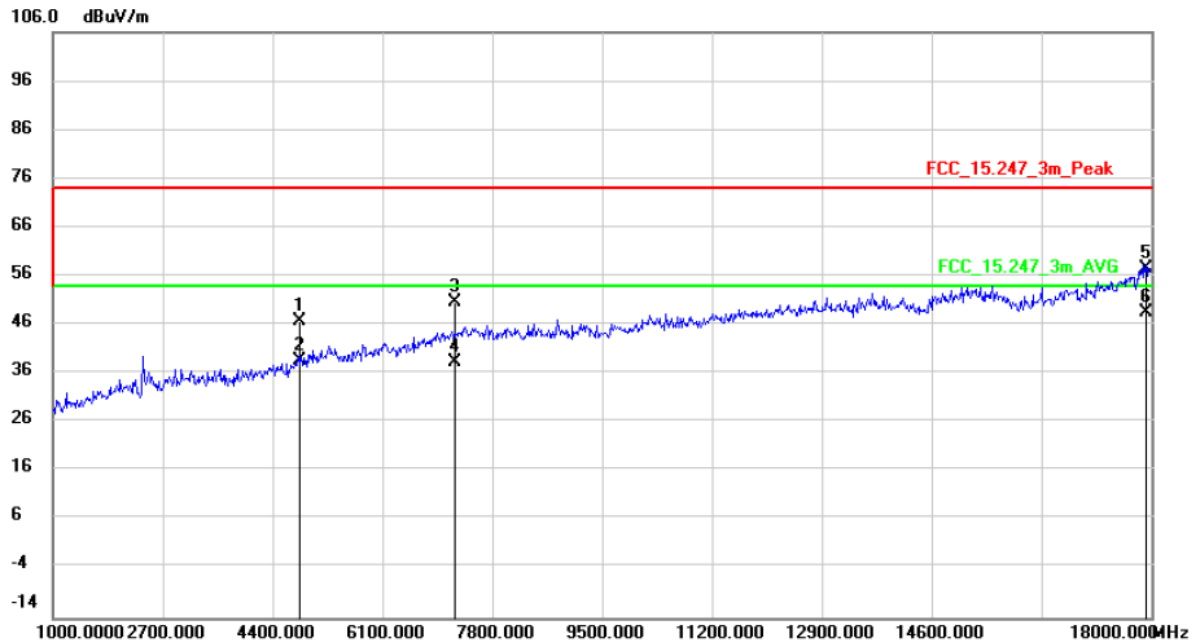
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: 8DPSK (Low Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:03:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	42.99	3.80	46.79	74.00	-27.21	peak	
2		4804.000	34.76	3.80	38.56	54.00	-15.44	AVG	
3		7206.000	41.88	8.66	50.54	74.00	-23.46	peak	
4		7206.000	29.79	8.66	38.45	54.00	-15.55	AVG	
5		17915.000	37.31	20.34	57.65	74.00	-16.35	peak	
6	*	17915.000	28.16	20.34	48.50	54.00	-5.50	AVG	

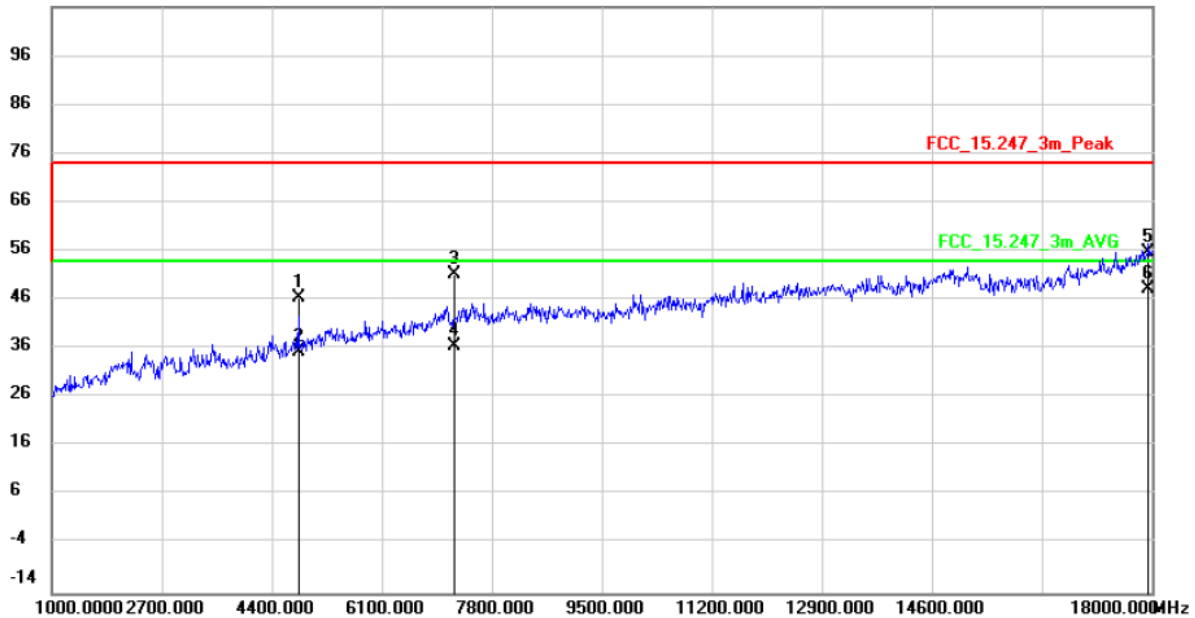
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: 8DPSK (Low Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:10:15

106.0 dBuV/m



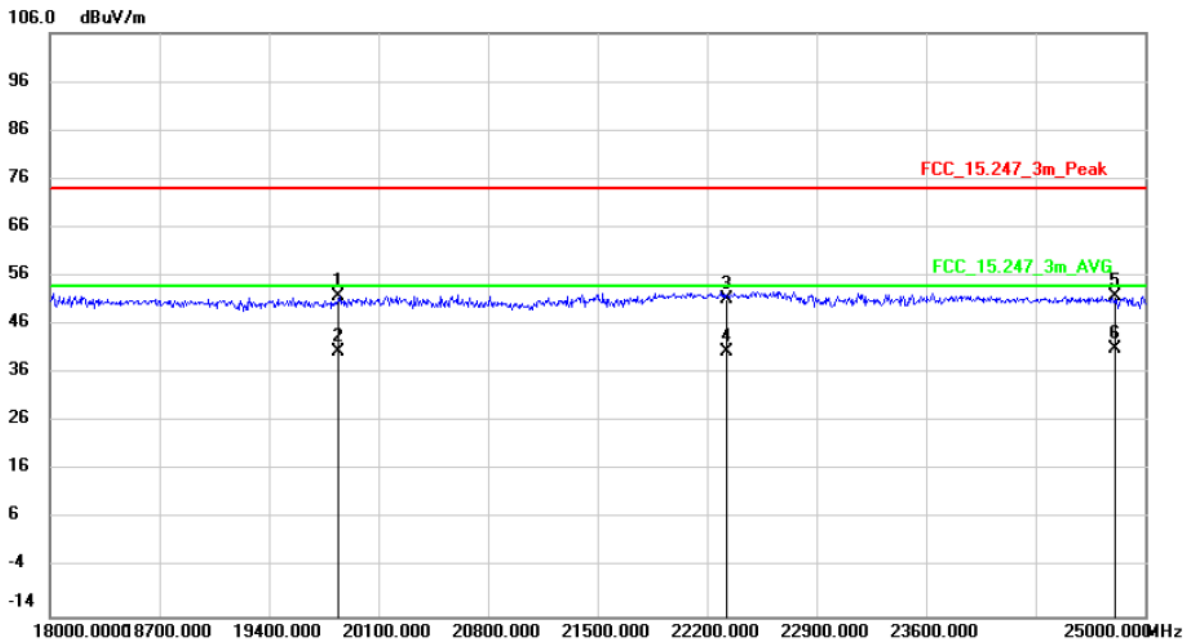
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4804.000	42.66	3.80	46.46	74.00	-27.54	peak	
2		4804.000	31.40	3.80	35.20	54.00	-18.80	AVG	
3		7206.000	42.61	8.66	51.27	74.00	-22.73	peak	
4		7206.000	27.99	8.66	36.65	54.00	-17.35	AVG	
5		17949.000	35.20	20.49	55.69	74.00	-18.31	peak	
6	*	17949.000	27.72	20.49	48.21	54.00	-5.79	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: 8DPSK (Low Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/19

Time: 9:40:42



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		19840.000	45.16	6.57	51.73	74.00	-22.27	peak
2		19840.000	33.95	6.57	40.52	54.00	-13.48	AVG
3		22320.000	45.81	5.53	51.34	74.00	-22.66	peak
4		22320.000	34.80	5.53	40.33	54.00	-13.67	AVG
5		24800.000	46.24	5.72	51.96	74.00	-22.04	peak
6	*	24800.000	35.37	5.72	41.09	54.00	-12.91	AVG

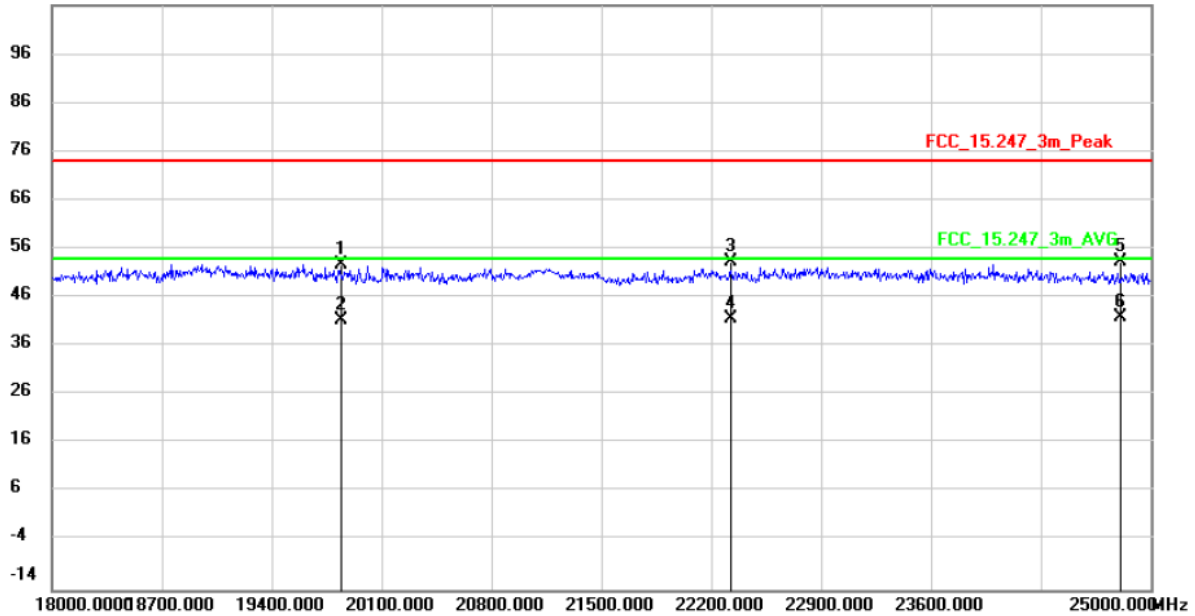
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: 8DPSK (Low Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/19

Time: 9:47:38

106.0 dBuV/m



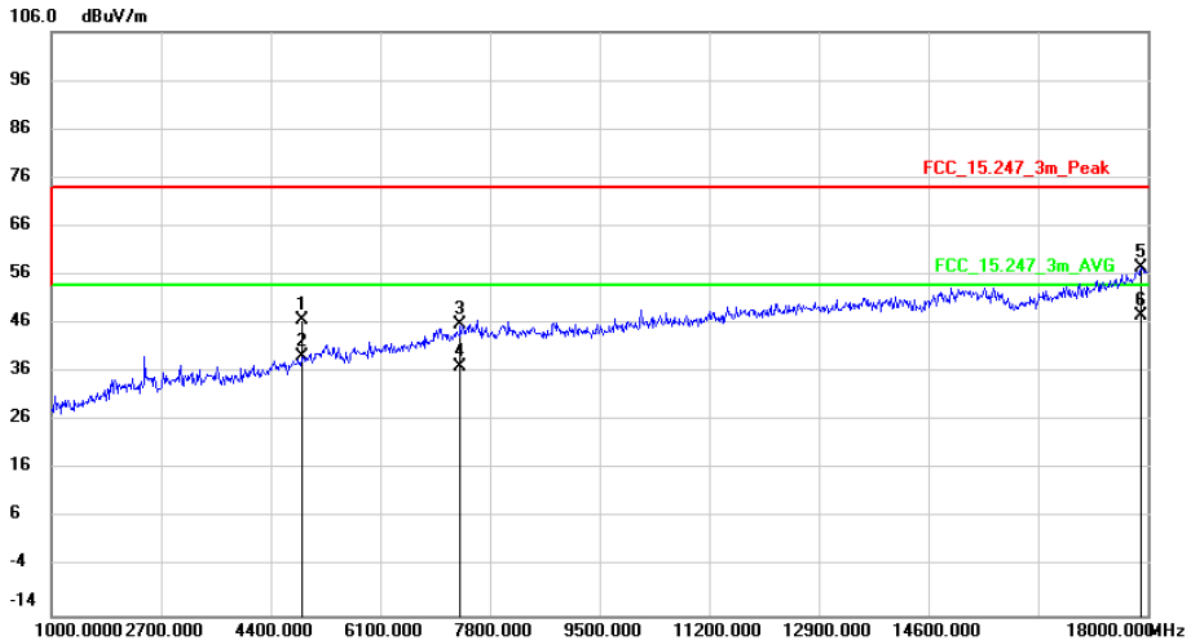
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	19840.000	46.21	6.57	52.78	74.00	-21.22	peak	
2	19840.000	34.77	6.57	41.34	54.00	-12.66	AVG	
3	22320.000	47.72	5.53	53.25	74.00	-20.75	peak	
4	22320.000	36.09	5.53	41.62	54.00	-12.38	AVG	
5	24800.000	47.56	5.72	53.28	74.00	-20.72	peak	
6 *	24800.000	36.28	5.72	42.00	54.00	-12.00	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: 8DPSK (Middle Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:24:52



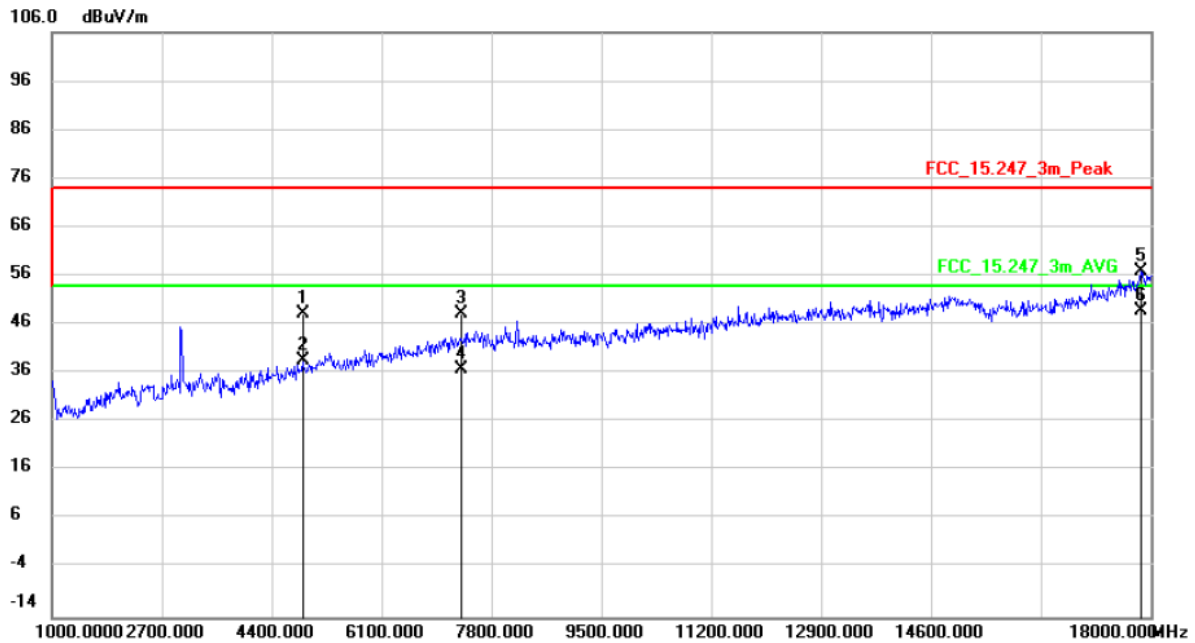
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		4882.000	42.62	4.05	46.67	74.00	-27.33	peak
2		4882.000	35.08	4.05	39.13	54.00	-14.87	AVG
3		7323.000	36.80	9.02	45.82	74.00	-28.18	peak
4		7323.000	28.22	9.02	37.24	54.00	-16.76	AVG
5		17898.000	37.15	20.26	57.41	74.00	-16.59	peak
6	*	17898.000	27.42	20.26	47.68	54.00	-6.32	AVG

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: 8DPSK (Middle Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:17:39



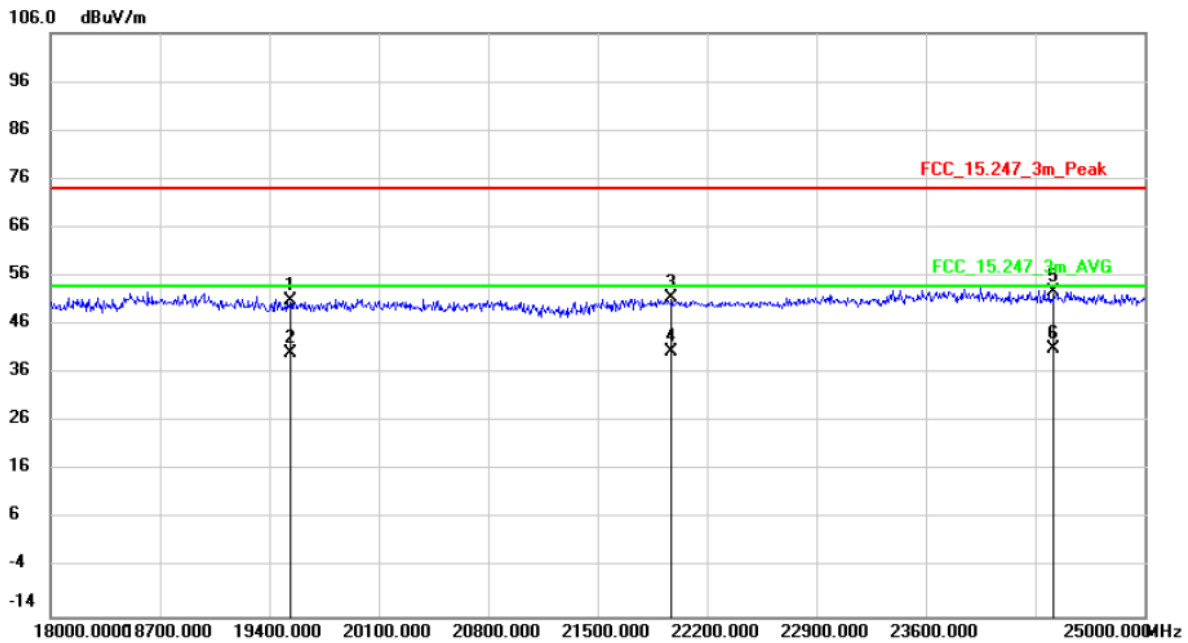
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		4882.000	44.34	4.05	48.39	74.00	-25.61	peak
2		4882.000	34.58	4.05	38.63	54.00	-15.37	AVG
3		7323.000	39.29	9.02	48.31	74.00	-25.69	peak
4		7323.000	27.92	9.02	36.94	54.00	-17.06	AVG
5		17847.000	36.98	20.02	57.00	74.00	-17.00	peak
6	*	17847.000	28.83	20.02	48.85	54.00	-5.15	AVG

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: 8DPSK (Middle Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/19

Time: 9:24:20



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19528.000	44.33	6.67	51.00	74.00	-23.00	peak	
2		19528.000	33.45	6.67	40.12	54.00	-13.88	AVG	
3		21969.000	46.02	5.45	51.47	74.00	-22.53	peak	
4		21969.000	34.93	5.45	40.38	54.00	-13.62	AVG	
5		24410.000	47.09	5.68	52.77	74.00	-21.23	peak	
6	*	24410.000	35.47	5.68	41.15	54.00	-12.85	AVG	

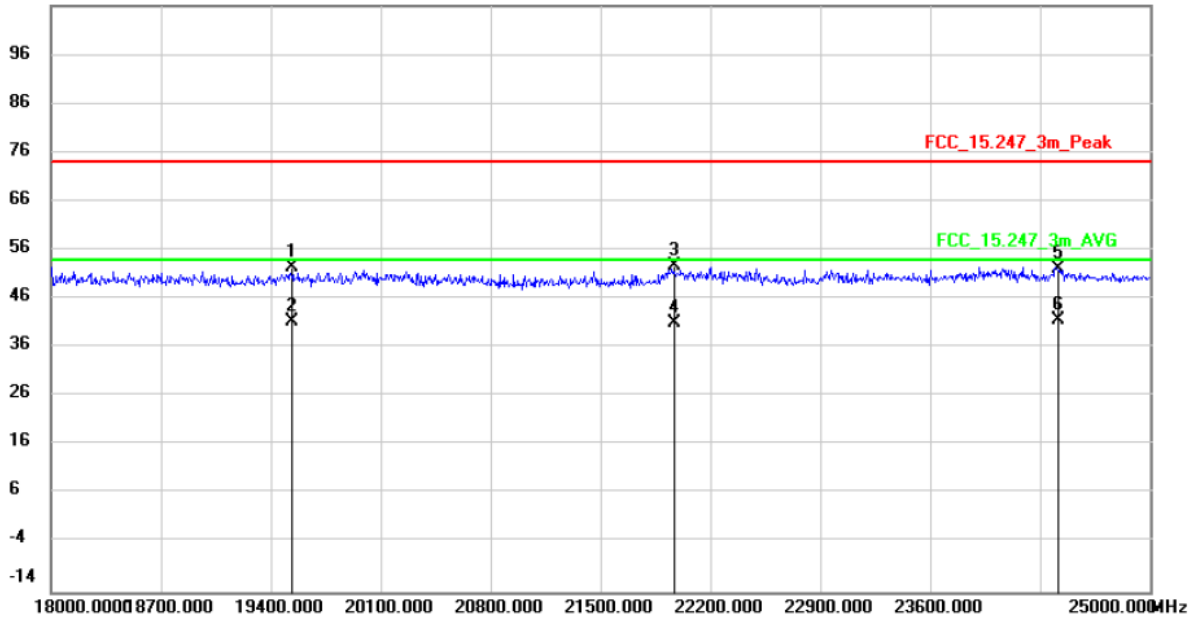
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: 8DPSK (Middle Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/19

Time: 9:32:33

106.0 dBuV/m



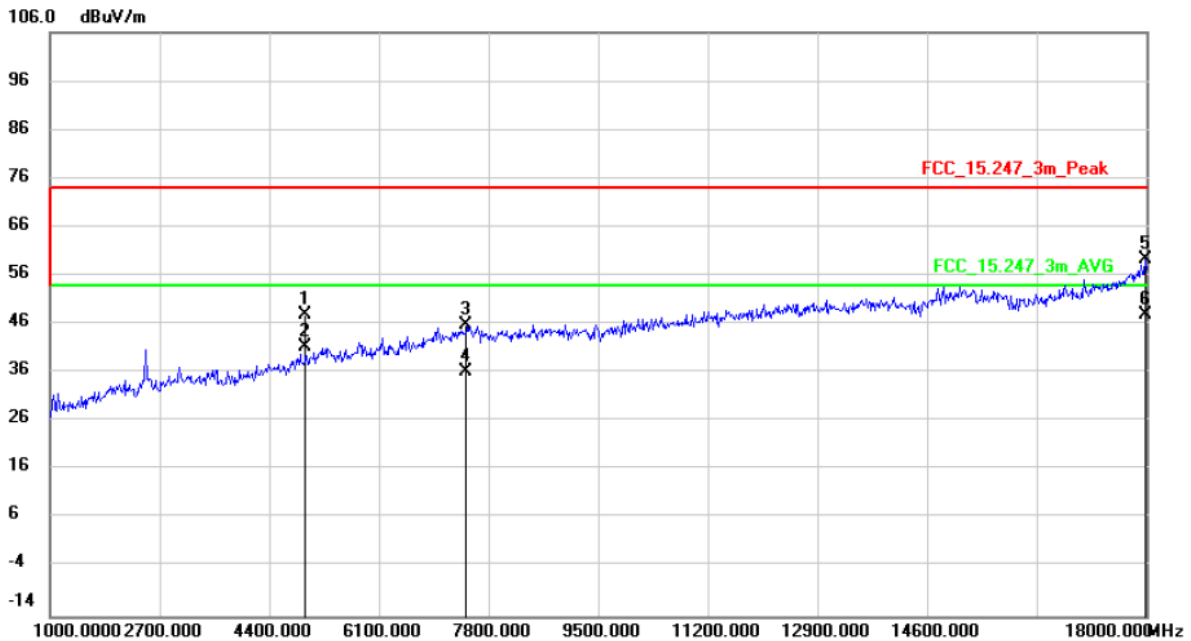
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		19528.000	45.87	6.67	52.54	74.00	-21.46	peak	
2		19528.000	34.68	6.67	41.35	54.00	-12.65	AVG	
3		21969.000	47.28	5.45	52.73	74.00	-21.27	peak	
4		21969.000	35.58	5.45	41.03	54.00	-12.97	AVG	
5		24410.000	46.48	5.68	52.16	74.00	-21.84	peak	
6	*	24410.000	35.90	5.68	41.58	54.00	-12.42	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: 8DPSK (High Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:31:53



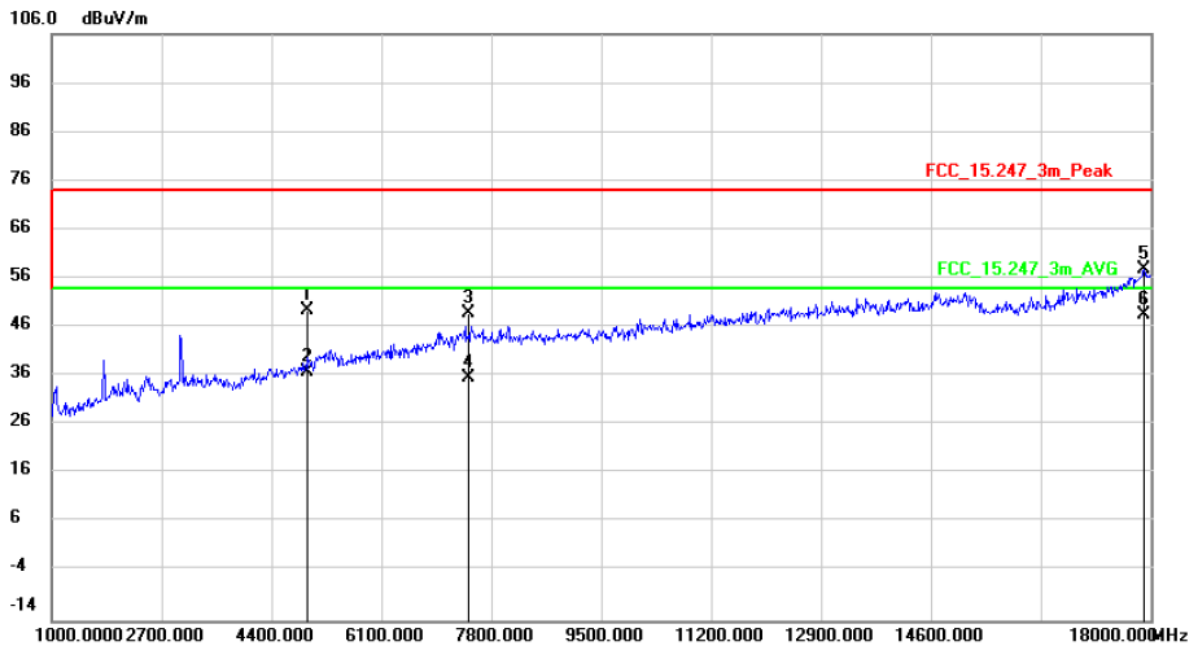
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	43.60	4.30	47.90	74.00	-26.10	peak	
2		4960.000	37.09	4.30	41.39	54.00	-12.61	AVG	
3		7440.000	36.31	9.60	45.91	74.00	-28.09	peak	
4		7440.000	26.54	9.60	36.14	54.00	-17.86	AVG	
5		17983.000	38.71	20.66	59.37	74.00	-14.63	peak	
6	*	17983.000	27.30	20.66	47.96	54.00	-6.04	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: 8DPSK (High Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:38:56



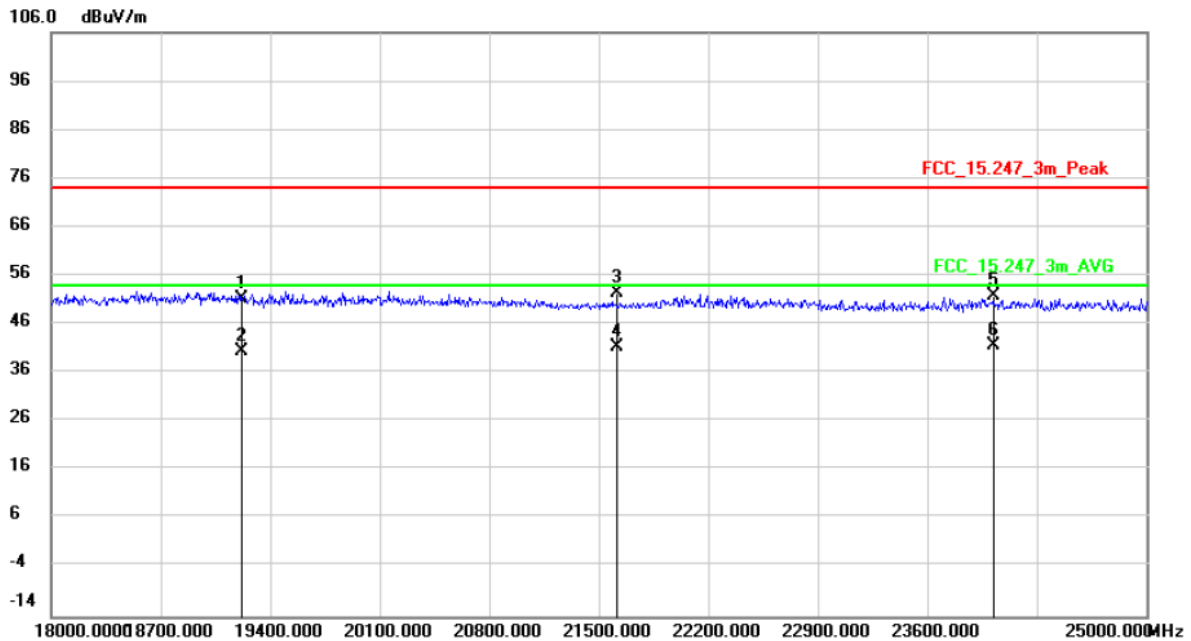
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	45.06	4.30	49.36	74.00	-24.64	peak	
2		4960.000	32.62	4.30	36.92	54.00	-17.08	AVG	
3		7440.000	39.34	9.60	48.94	74.00	-25.06	peak	
4		7440.000	26.07	9.60	35.67	54.00	-18.33	AVG	
5		17898.000	37.44	20.26	57.70	74.00	-16.30	peak	
6	*	17898.000	28.29	20.26	48.55	54.00	-5.45	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: 8DPSK (High Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/19

Time: 9:10:15



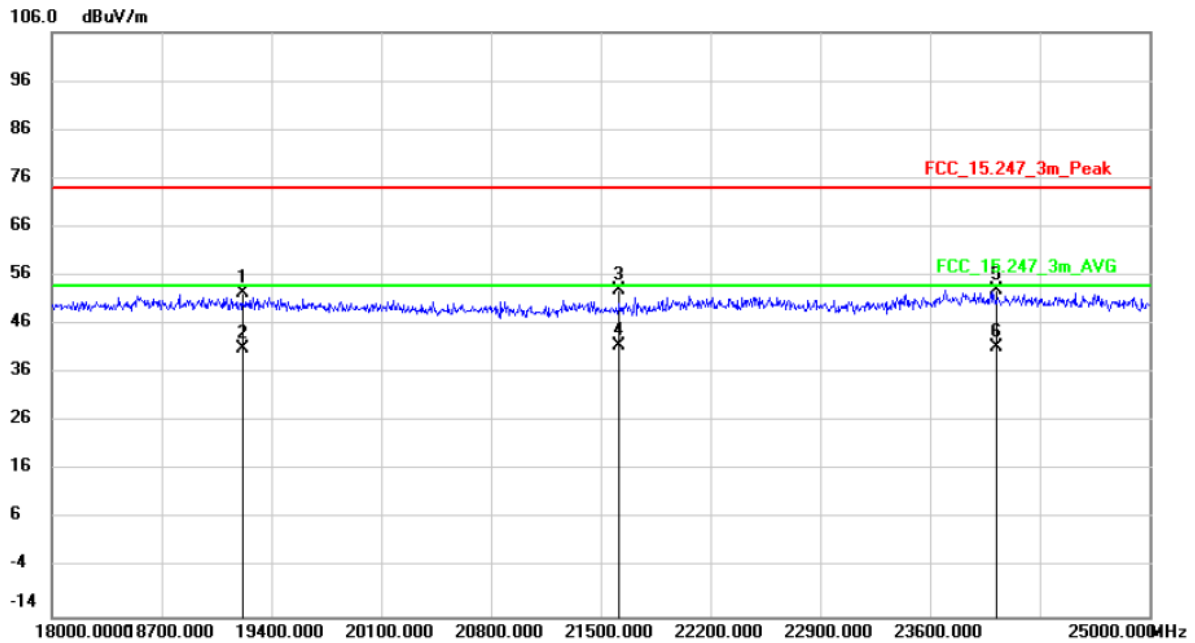
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		19216.000	44.05	7.09	51.14	74.00	-22.86	peak
2		19216.000	33.26	7.09	40.35	54.00	-13.65	AVG
3		21618.000	47.51	4.98	52.49	74.00	-21.51	peak
4		21618.000	36.35	4.98	41.33	54.00	-12.67	AVG
5		24020.000	46.46	5.44	51.90	74.00	-22.10	peak
6	*	24020.000	36.28	5.44	41.72	54.00	-12.28	AVG

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: 8DPSK (High Channel)	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/19

Time: 9:17:45



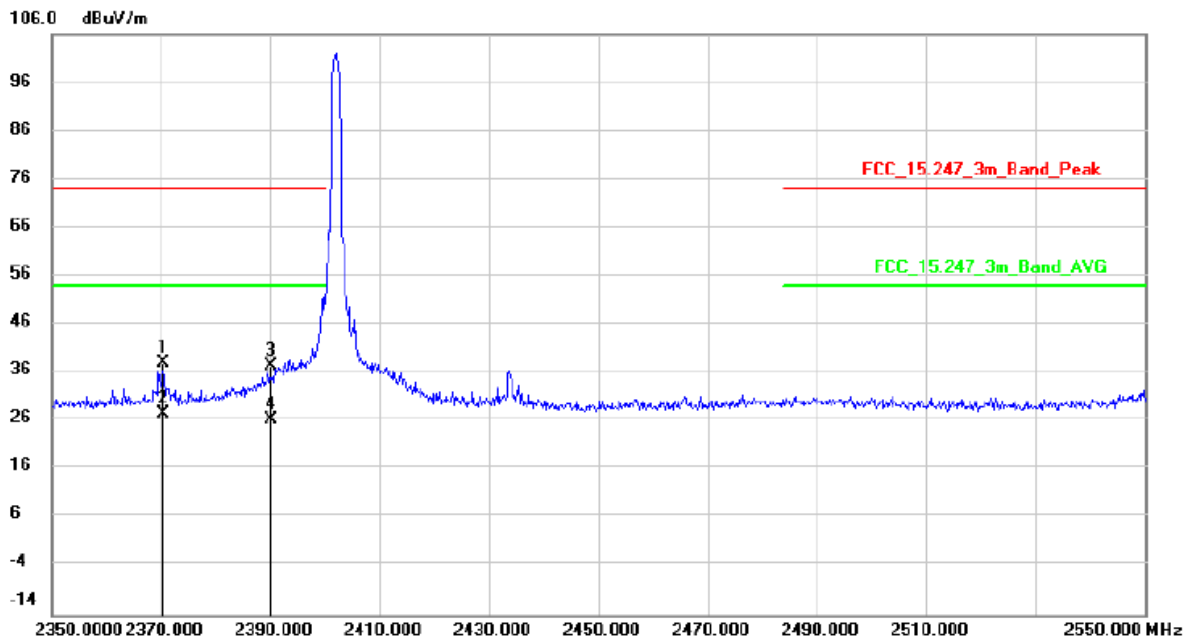
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	19216.000	45.25	7.09	52.34	74.00	-21.66	peak	
2	19216.000	34.02	7.09	41.11	54.00	-12.89	AVG	
3	21618.000	47.95	4.98	52.93	74.00	-21.07	peak	
4 *	21618.000	36.54	4.98	41.52	54.00	-12.48	AVG	
5	24020.000	47.60	5.44	53.04	74.00	-20.96	peak	
6	24020.000	35.83	5.44	41.27	54.00	-12.73	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: Restricted Band, Low channel, 8DPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:48:58



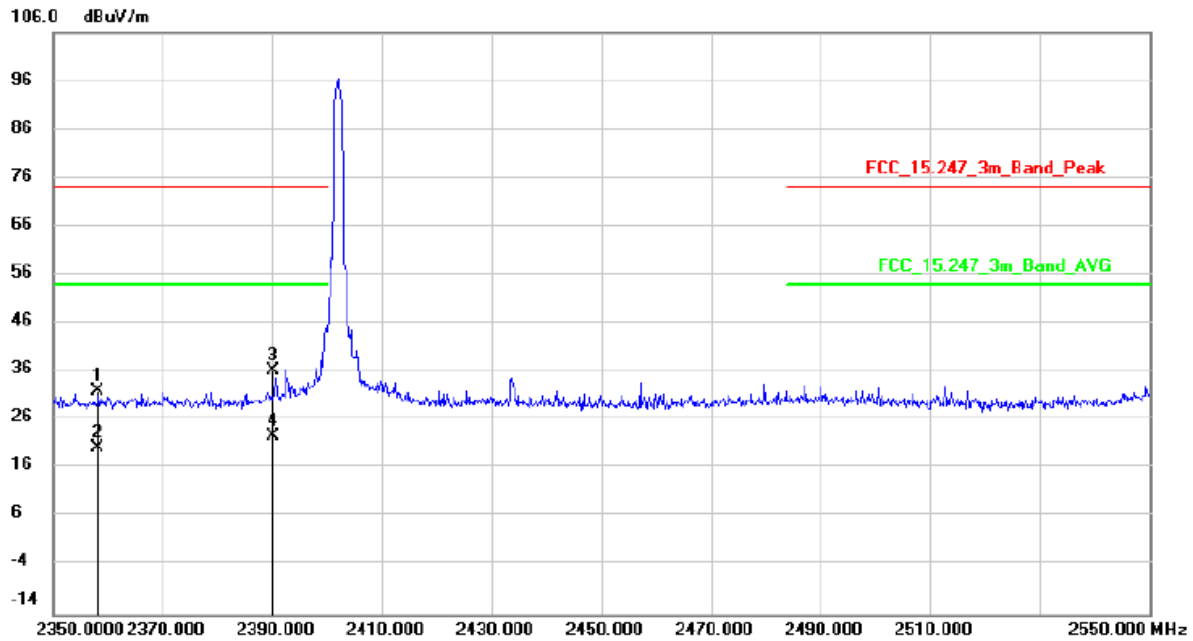
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2370.400	40.91	-3.00	37.91	74.00	-36.09	peak	
2	*	2370.400	30.61	-3.00	27.61	54.00	-26.39	AVG	
3		2390.000	40.33	-2.98	37.35	74.00	-36.65	peak	
4		2390.000	29.40	-2.98	26.42	54.00	-27.58	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: Restricted Band, Low channel, 8DPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:41:38



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		2358.200	35.02	-3.01	32.01	74.00	-41.99	peak	
2		2358.200	23.25	-3.01	20.24	54.00	-33.76	AVG	
3		2390.000	39.15	-2.98	36.17	74.00	-37.83	peak	
4	*	2390.000	25.88	-2.98	22.90	54.00	-31.10	AVG	

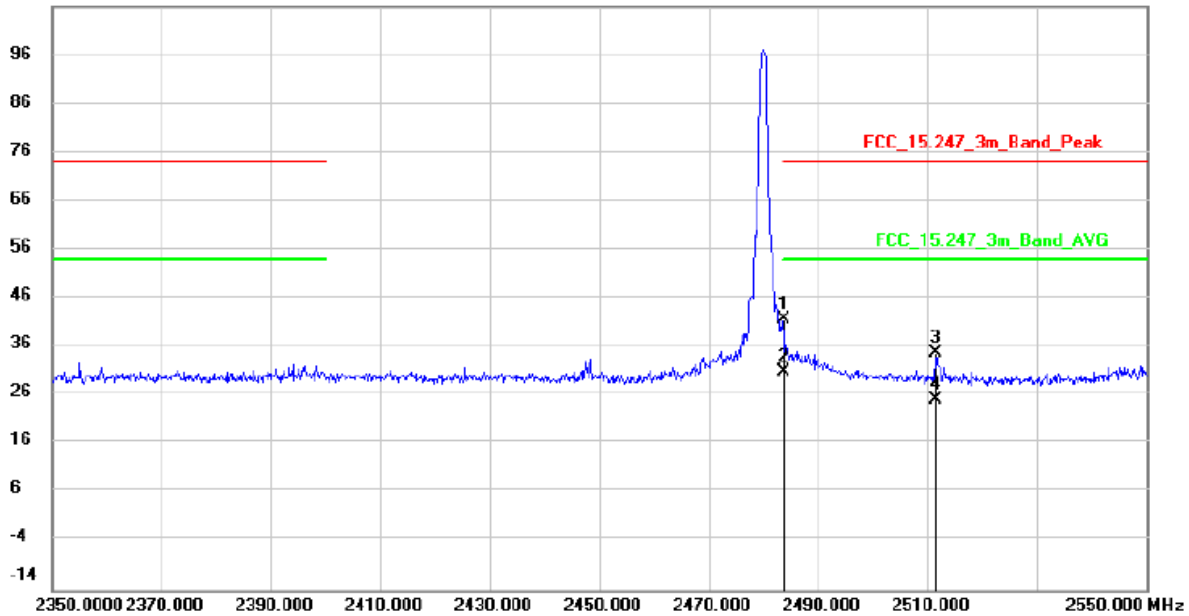
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: Restricted Band, High channel, 8DPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:55:20

106.0 dBuV/m



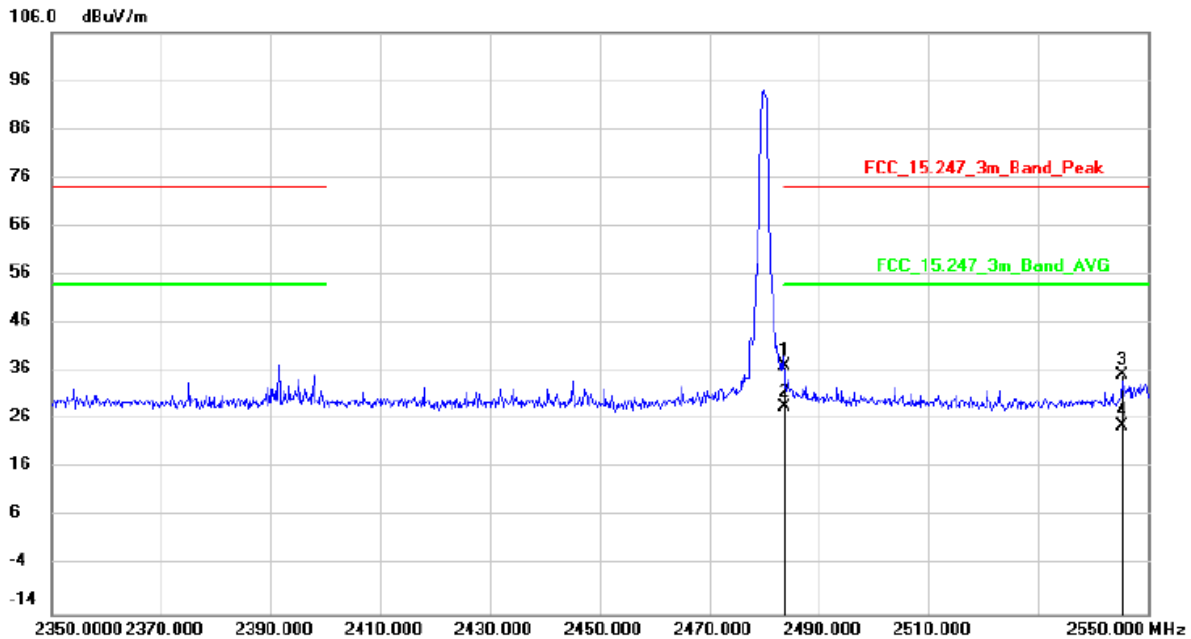
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	44.62	-2.84	41.78	74.00	-32.22	peak	
2	*	2483.500	33.61	-2.84	30.77	54.00	-23.23	AVG	
3		2511.400	37.62	-2.78	34.84	74.00	-39.16	peak	
4		2511.400	27.99	-2.78	25.21	54.00	-28.79	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: Restricted Band, High channel, 8DPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 17:02:12



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		2483.500	39.86	-2.84	37.02	74.00	-36.98	peak	
2	*	2483.500	31.49	-2.84	28.65	54.00	-25.35	AVG	
3		2545.200	37.97	-2.67	35.30	74.00	-38.70	peak	
4		2545.200	27.58	-2.67	24.91	54.00	-29.09	AVG	

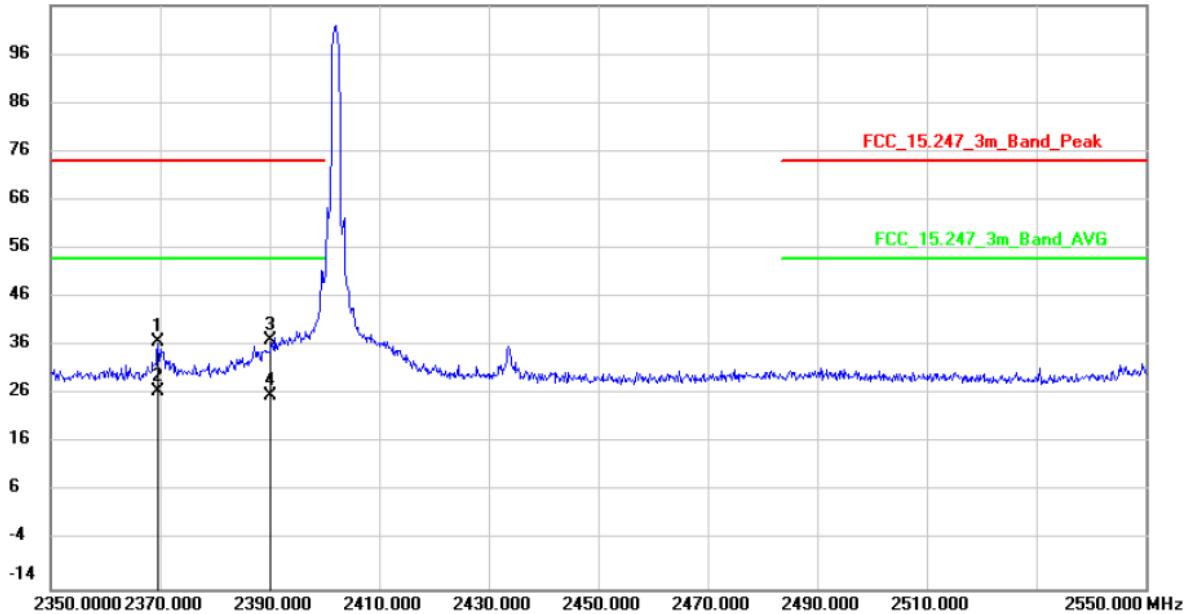
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: Restricted Band, Low channel, $\Pi/4$ -DQPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:27:48

106.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2369.600	39.78	-3.01	36.77	74.00	-37.23	peak	
2	*	2369.600	29.73	-3.01	26.72	54.00	-27.28	AVG	
3		2390.000	40.17	-2.98	37.19	74.00	-36.81	peak	
4		2390.000	28.62	-2.98	25.64	54.00	-28.36	AVG	

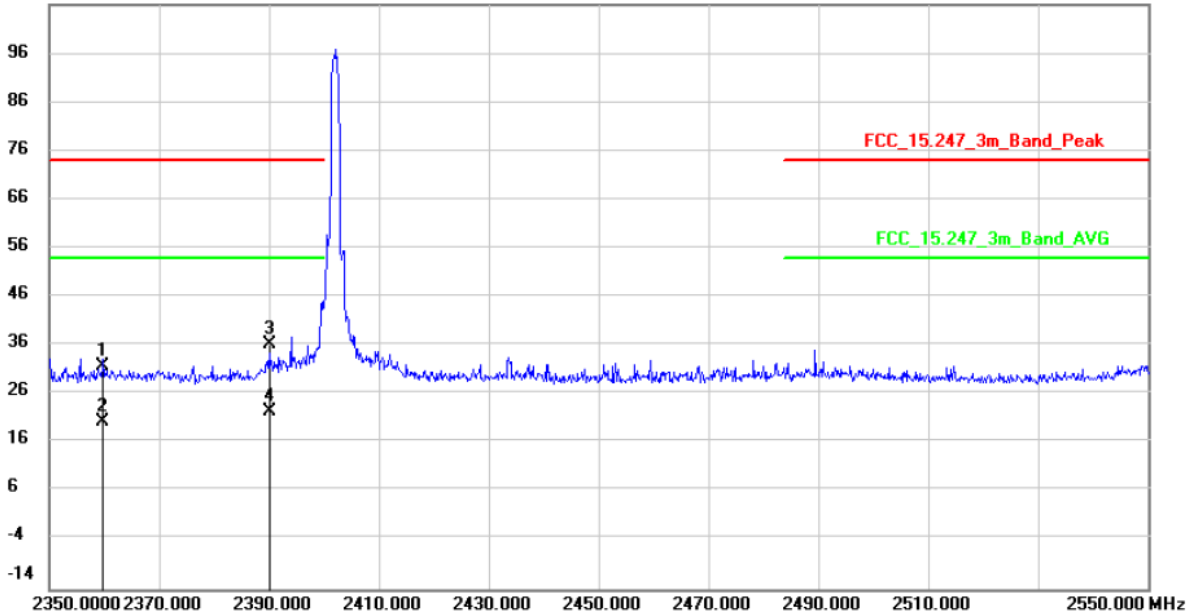
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: Restricted Band, Low channel, $\Pi/4$ -DQPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:34:19

106.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2359.800	34.84	-3.02	31.82	74.00	-42.18	peak	
2		2359.800	23.36	-3.02	20.34	54.00	-33.66	AVG	
3		2390.000	39.24	-2.98	36.26	74.00	-37.74	peak	
4	*	2390.000	25.51	-2.98	22.53	54.00	-31.47	AVG	

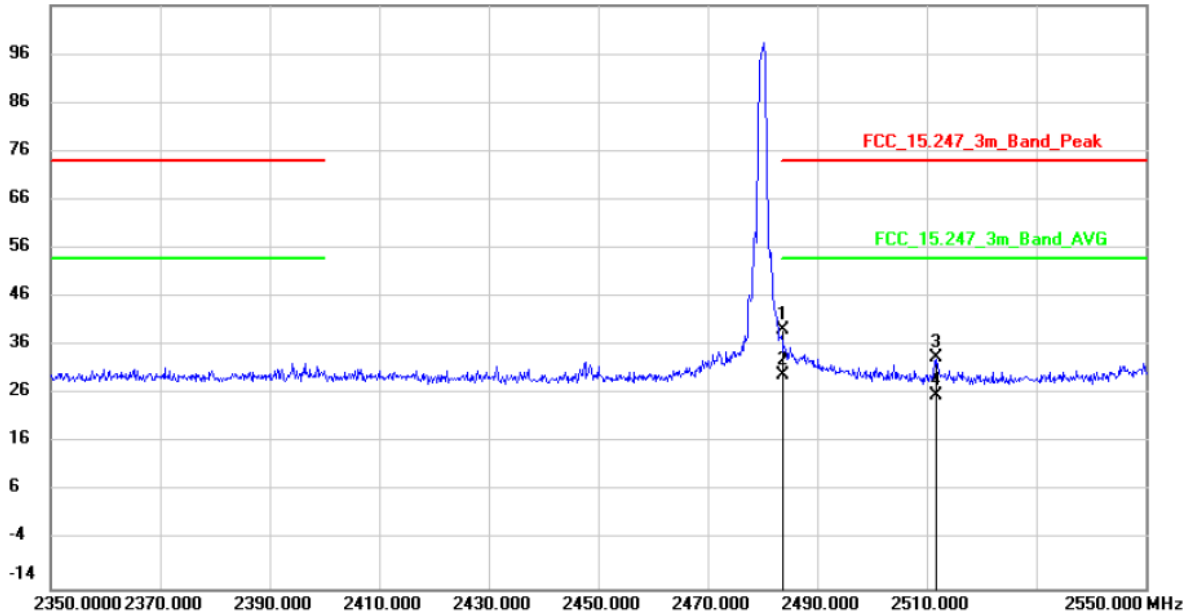
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: Restricted Band, High channel, $\Pi/4$ -DQPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:20:02

106.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	42.07	-2.84	39.23	74.00	-34.77	peak	
2	*	2483.500	32.87	-2.84	30.03	54.00	-23.97	AVG	
3		2511.600	36.45	-2.78	33.67	74.00	-40.33	peak	
4		2511.600	28.47	-2.78	25.69	54.00	-28.31	AVG	

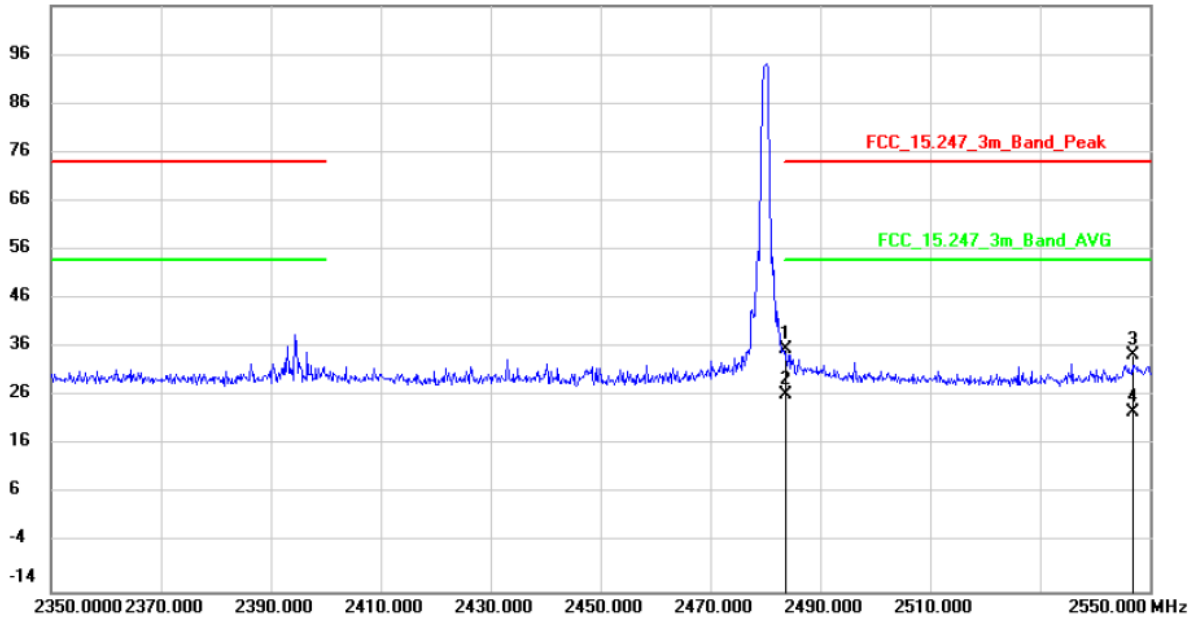
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: Restricted Band, High channel, $\Pi/4$ -DQPSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:13:34

106.0 dBuV/m



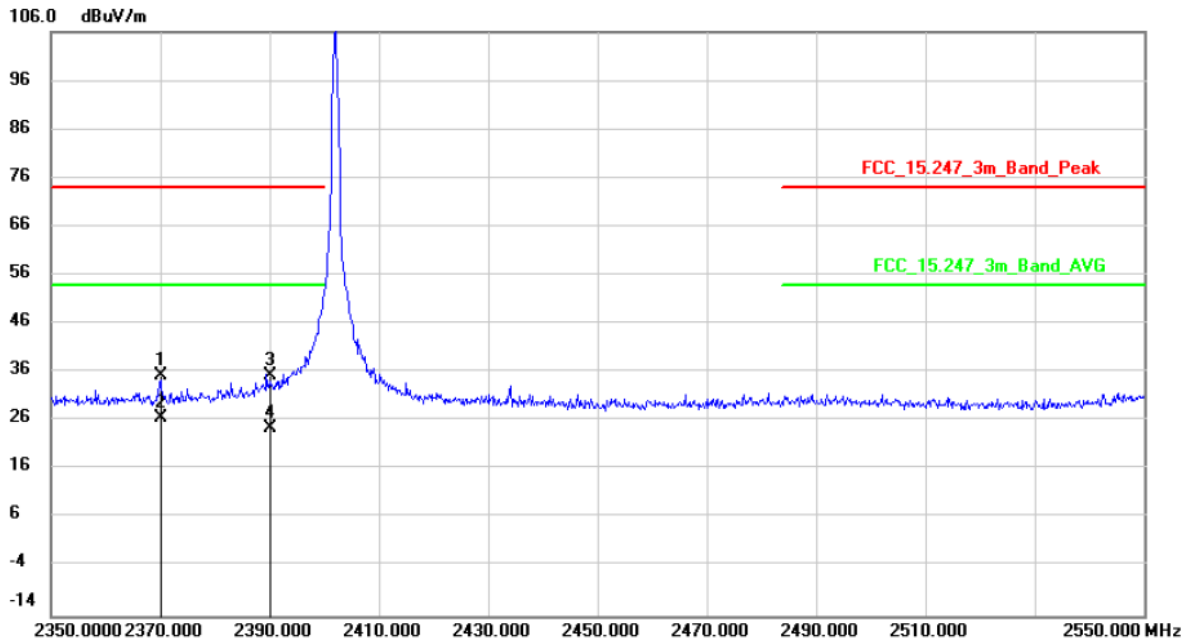
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	38.61	-2.84	35.77	74.00	-38.23	peak	
2	*	2483.500	29.26	-2.84	26.42	54.00	-27.58	AVG	
3		2546.800	36.99	-2.67	34.32	74.00	-39.68	peak	
4		2546.800	25.54	-2.67	22.87	54.00	-31.13	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: Restricted Band, Low channel, GFSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:45:54



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2370.000	38.29	-3.01	35.28	74.00	-38.72	peak	
2	*	2370.000	29.56	-3.01	26.55	54.00	-27.45	AVG	
3		2390.000	38.23	-2.98	35.25	74.00	-38.75	peak	
4		2390.000	27.40	-2.98	24.42	54.00	-29.58	AVG	

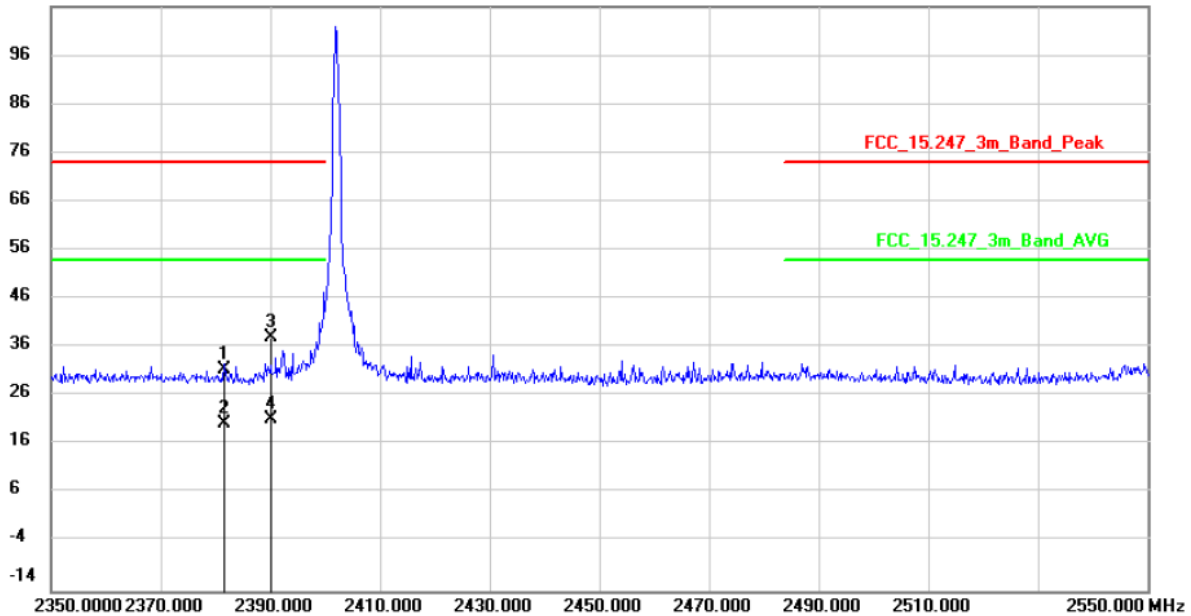
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: Restricted Band, Low channel, GFSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:52:19

106.0 dBuV/m



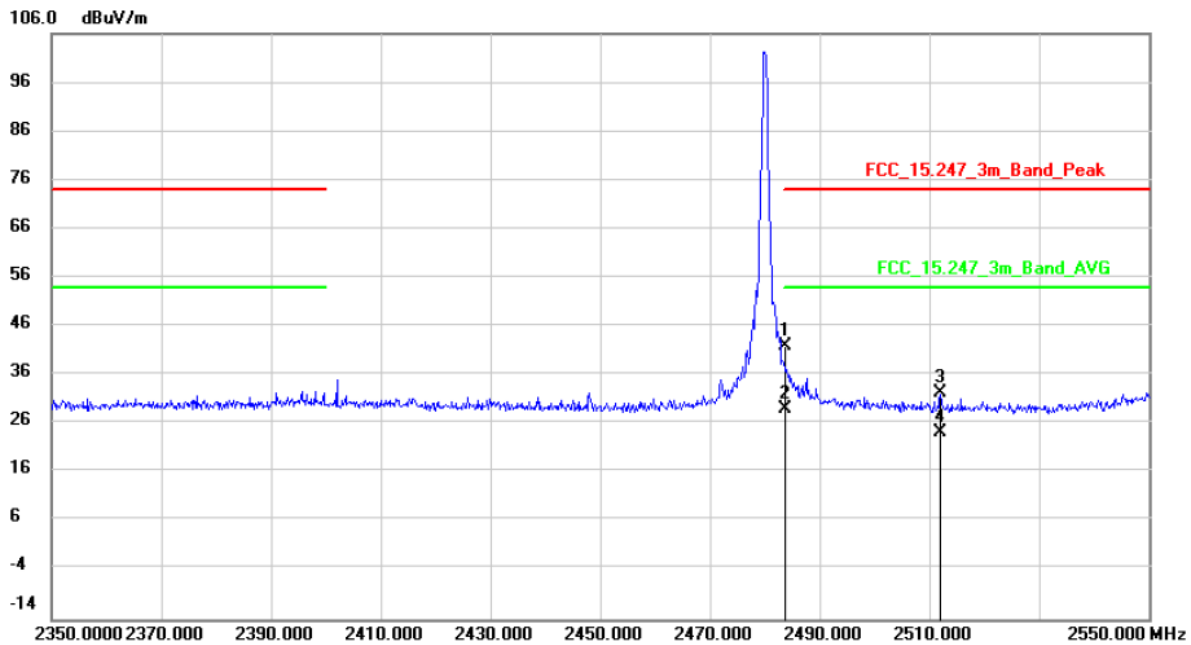
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	2381.600	34.48	-2.99	31.49	74.00	-42.51	peak	
2	2381.600	23.25	-2.99	20.26	54.00	-33.74	AVG	
3	2390.000	40.95	-2.98	37.97	74.00	-36.03	peak	
4 *	2390.000	24.33	-2.98	21.35	54.00	-32.65	AVG	

M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Horizontal	Detector: PK, AVG
Test Mode: Restricted Band, High channel, GFSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 15:59:26



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	44.93	-2.84	42.09	74.00	-31.91	peak	
2	*	2483.500	31.88	-2.84	29.04	54.00	-24.96	AVG	
3		2512.000	35.09	-2.78	32.31	74.00	-41.69	peak	
4		2512.000	26.91	-2.78	24.13	54.00	-29.87	AVG	

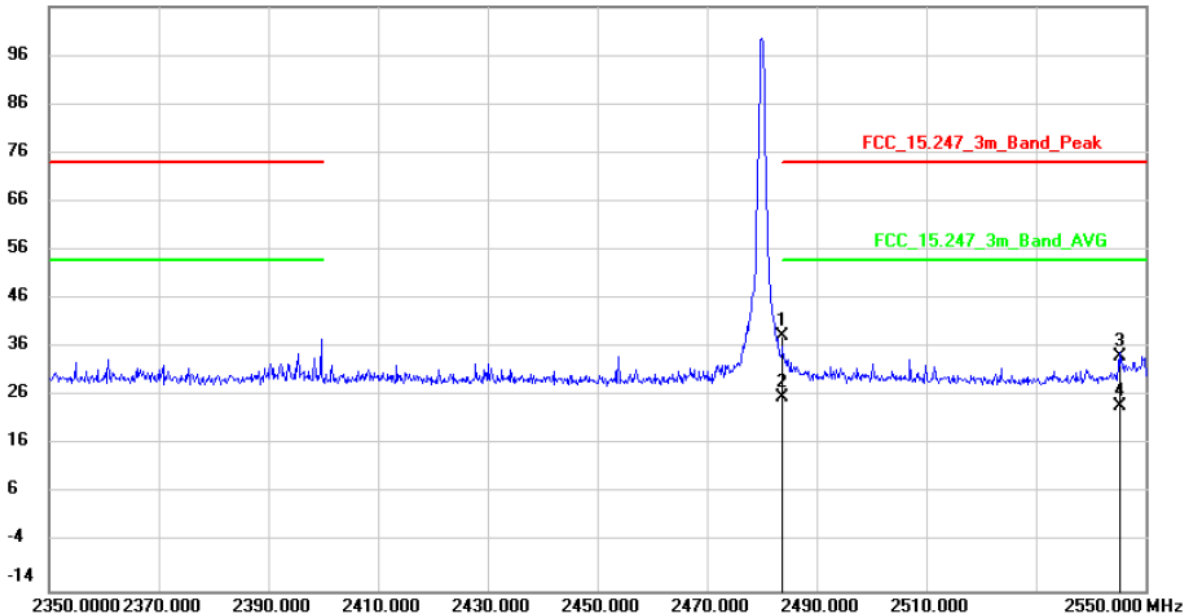
M/N: 49663	Testing Voltage: DC 3.7V
Polarization: Vertical	Detector: PK, AVG
Test Mode: Restricted Band, High channel, GFSK	Distance: 3m

Radiated Emission Measurement

Date: 2026/7/18

Time: 16:06:44

106.0 dBuV/m



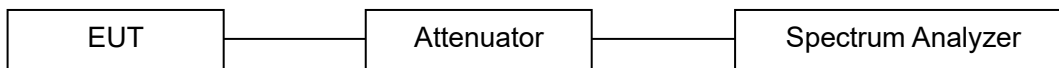
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	41.23	-2.84	38.39	74.00	-35.61	peak	
2	*	2483.500	28.61	-2.84	25.77	54.00	-28.23	AVG	
3		2545.200	36.87	-2.67	34.20	74.00	-39.80	peak	
4		2545.200	26.50	-2.67	23.83	54.00	-30.17	AVG	

13.3 Channel Separation test

LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Enable the EUT hopping function.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.2.

TEST RESULTS

PASS

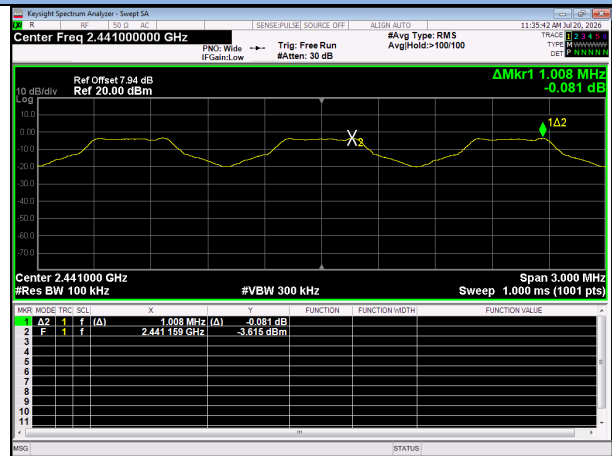
Please refer to the following tables.

Modulation	Channel	Frequency (MHz)	Hopping Separation Measurement (MHz)	Hopping Separation Limit (MHz)	Test Result
GFSK	Low	2402	0.993	>0.640	Pass
	Mid	2441	1.008	>0.641	Pass
	High	2480	1.002	>0.640	Pass
$\pi/4$ -DQPSK	Low	2402	0.996	>0.889	Pass
	Mid	2441	0.999	>0.889	Pass
	High	2480	0.993	>0.889	Pass
8DPSK	Low	2402	0.996	>0.874	Pass
	Mid	2441	1.005	>0.875	Pass
	High	2480	0.996	>0.874	Pass

GFSK / Low Channel



GFSK / Mid Channel



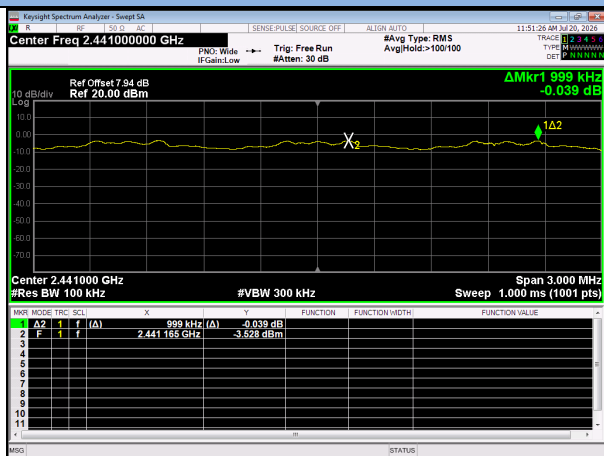
GFSK / High Channel



$\pi/4$ -DQPSK / Low Channel



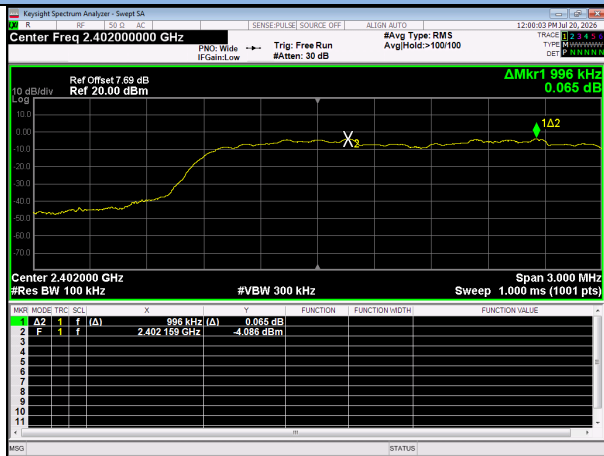
$\pi/4$ -DQPSK / Mid Channel



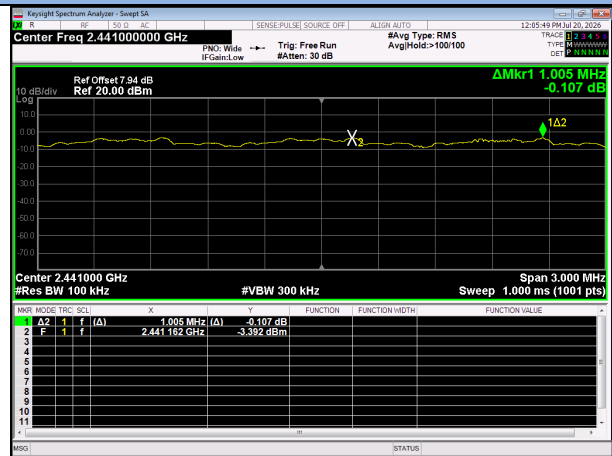
$\pi/4$ -DQPSK / High Channel



8DPSK / Low Channel



8DPSK / Mid Channel



8DPSK / High Channel



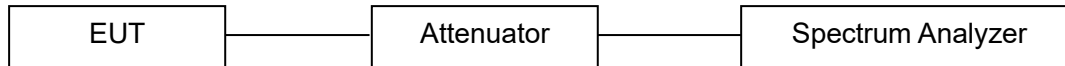
Blank

13.4 20dB Bandwidth

LIMIT

N/A

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- b. Set to the maximum power setting and enable the EUT transmit continuously.
- c. Set spectrum analyzer and perform testing according to ANSI C63.10 clause 6.9.2.

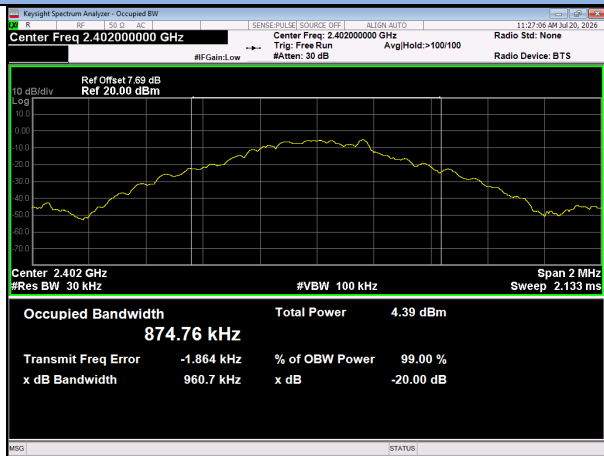
TEST RESULTS

PASS

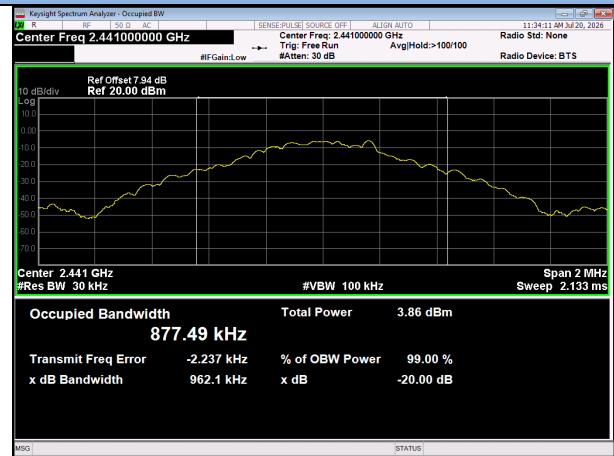
Please refer to the following tables.

Modulation	Channel	Frequency (MHz)	20dB Measurement (MHz)	Limit (MHz)	Remark
GFSK	Low	2402	0.9607	N/A	Reporting only
	Mid	2441	0.9621	N/A	
	High	2480	0.9607	N/A	
$\pi/4$ -DQPSK	Low	2402	1.334	N/A	
	Mid	2441	1.334	N/A	
	High	2480	1.334	N/A	
8DPSK	Low	2402	1.311	N/A	
	Mid	2441	1.313	N/A	
	High	2480	1.311	N/A	

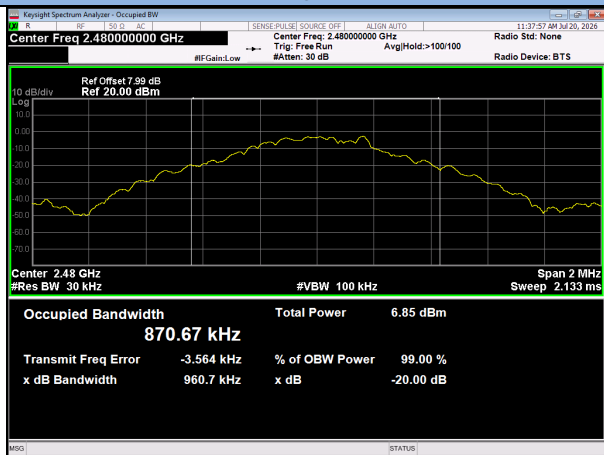
GFSK / Low Channel



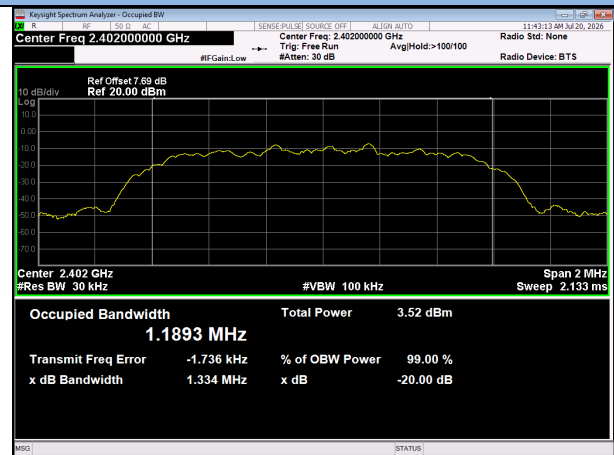
GFSK / Mid Channel



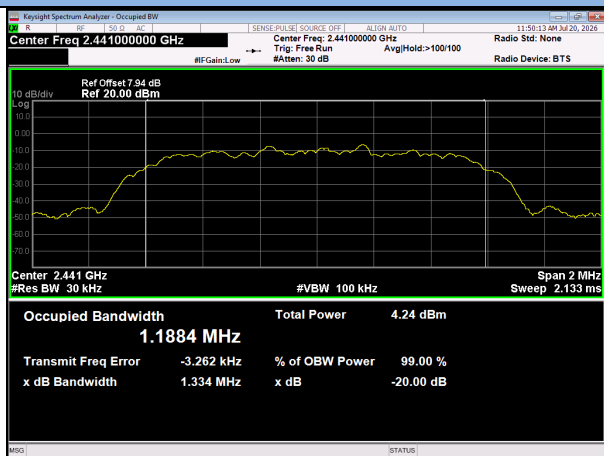
GFSK / High Channel



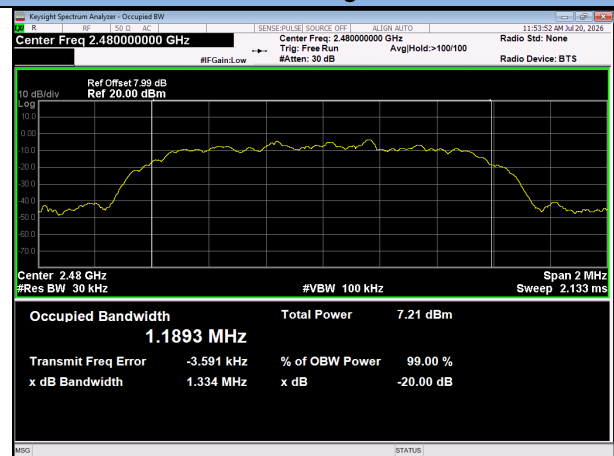
$\pi/4$ -DQPSK / Low Channel



$\pi/4$ -DQPSK / Mid Channel



$\pi/4$ -DQPSK / High Channel



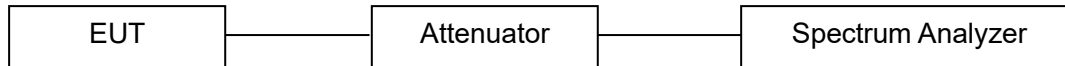


13.5 Hopping Channel Number

LIMIT

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Enable the EUT hopping function.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.3.

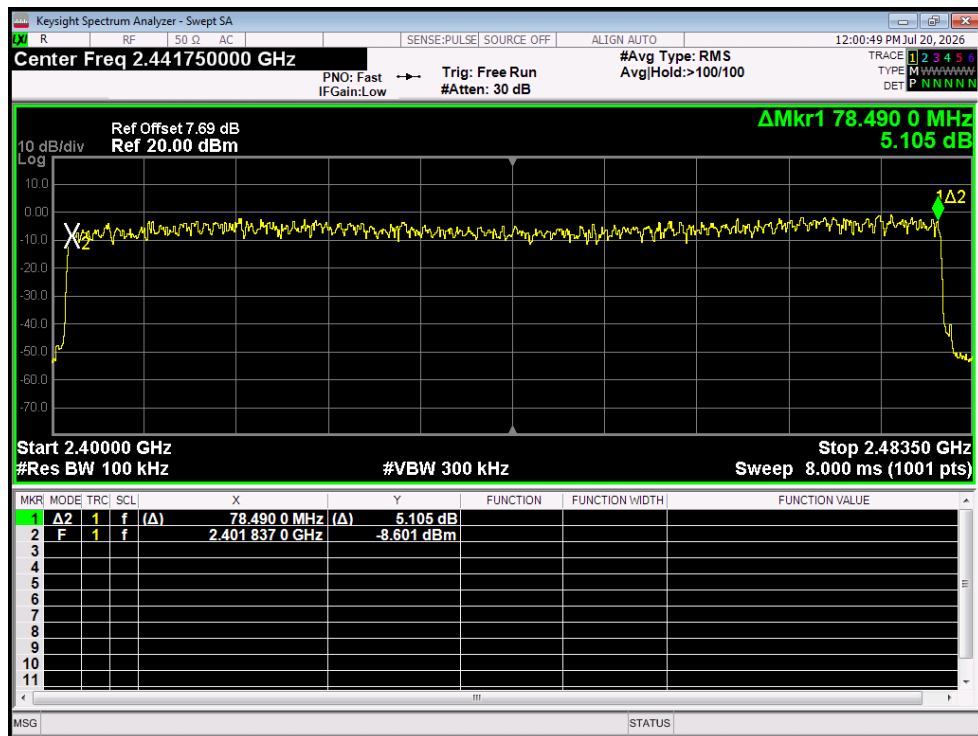
TEST RESULTS

PASS

Please refer to the following table.

Modulation	Number of Hopping Channels Measurement	Limit	Test Result
GFSK	79	≥ 15	PASS
$\pi/4$ -DQPSK	79	≥ 15	PASS
8DPSK	79	≥ 15	PASS

The worst case: 8DPSK

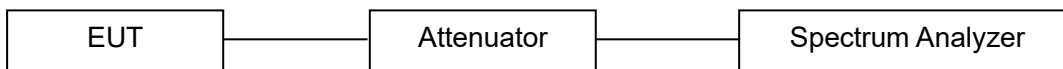


13.6 Time of Occupancy (Dwell Time)

LIMIT

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Enable the EUT hopping function.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.4.

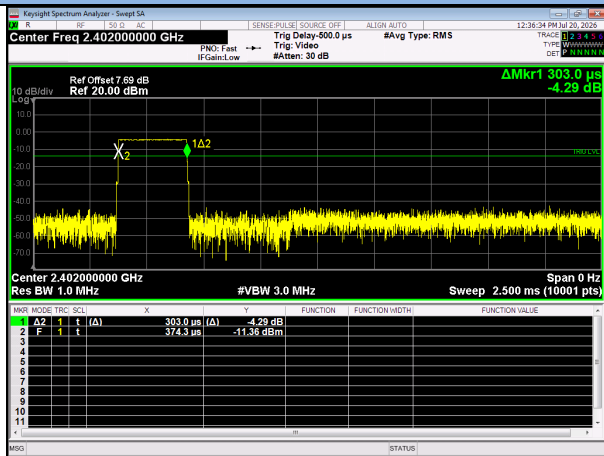
TEST RESULTS

PASS

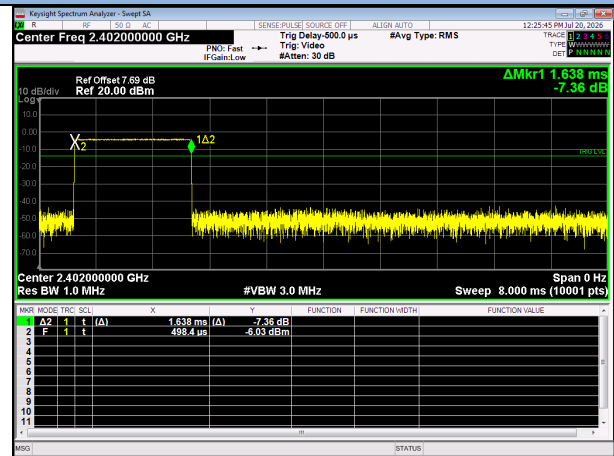
Please refer to the following tables.

Modulation	Packet	Frequency (MHz)	Dwell Time Measurement (msec)	Limit (msec)	Test Result
GFSK	DH1	2402	0.303 (ms)*(1600/(2*79))*31.6= 96.96	400	Pass
	DH3	2402	1.638 (ms)*(1600/(4*79))*31.6= 262.08	400	Pass
	DH5	2402	2.886 (ms)*(1600/(6*79))*31.6= 307.84	400	Pass
π/4-DQPSK	2-DH1	2402	0.305 (ms)*(1600/(2*79))*31.6= 97.60	400	Pass
	2-DH3	2402	1.635 (ms)*(1600/(4*79))*31.6= 261.60	400	Pass
	2-DH5	2402	2.886 (ms)*(1600/(6*79))*31.6= 307.84	400	Pass
8DPSK	3-DH1	2402	0.300 (ms)*(1600/(2*79))*31.6= 96.00	400	Pass
	3-DH3	2402	1.586 (ms)*(1600/(4*79))*31.6= 253.76	400	Pass
	3-DH5	2402	2.886 (ms)*(1600/(6*79))*31.6= 307.84	400	Pass

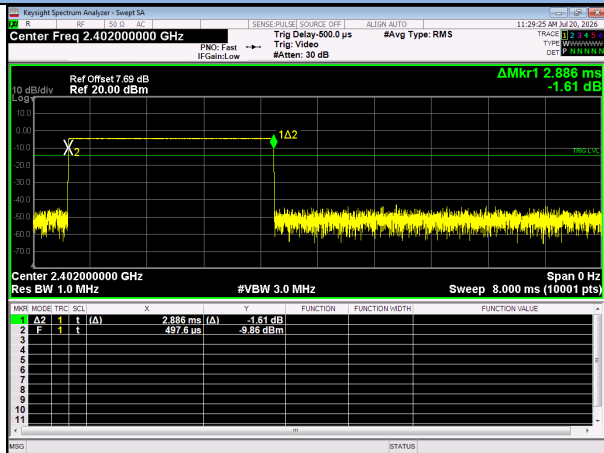
GFSK / DH1



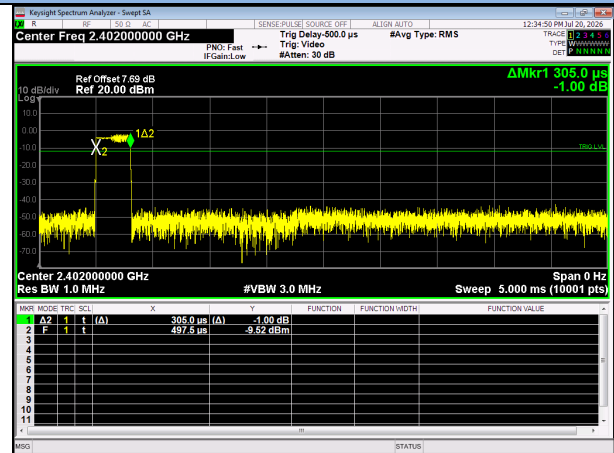
GFSK / DH3



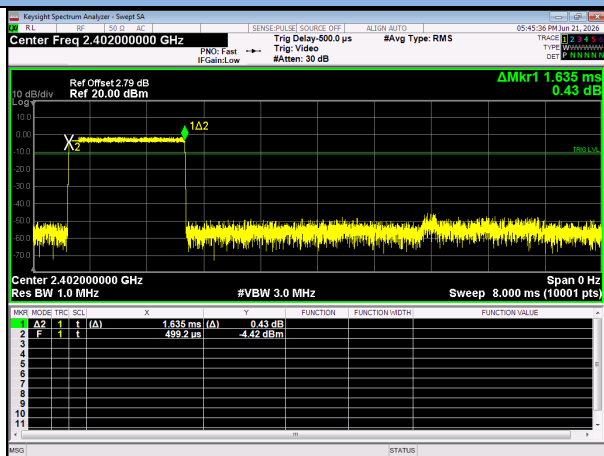
GFSK / DH5



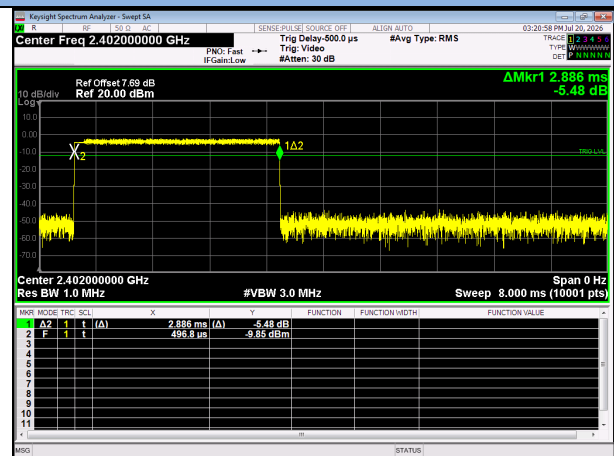
$\pi/4$ -DQPSK / 2-DH1



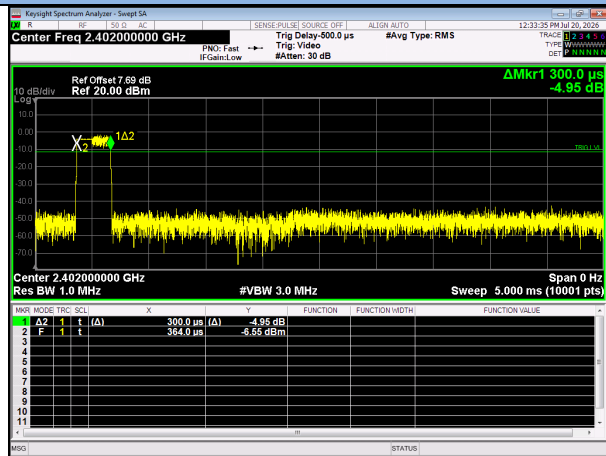
$\pi/4$ -DQPSK / 2-DH3



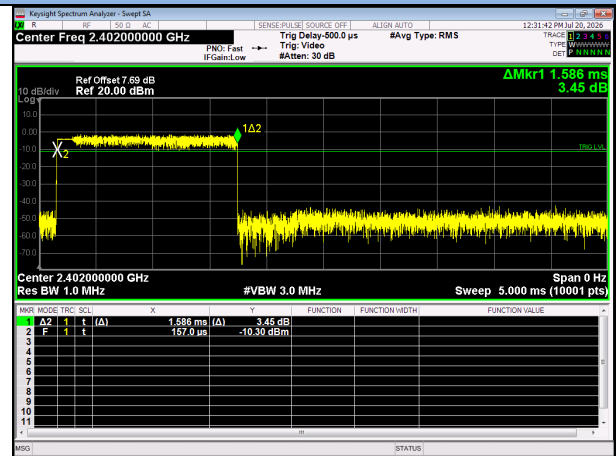
$\pi/4$ -DQPSK / 2-DH5



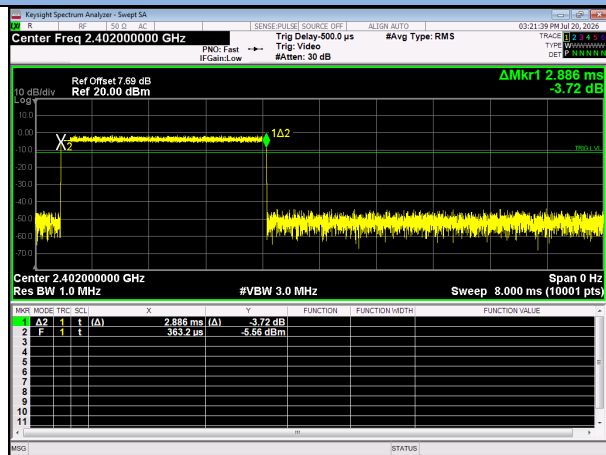
8DPSK / 3-DH1



8DPSK / 3-DH3



8DPSK / 3-DH5

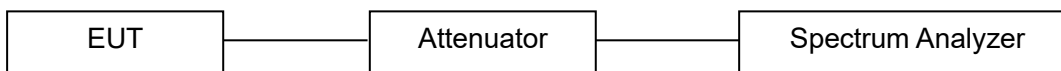


13.7 Maximum Peak Output Power

LIMIT

The maximum peak conducted output power of the intentional radiator shall not exceed the following: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.5.

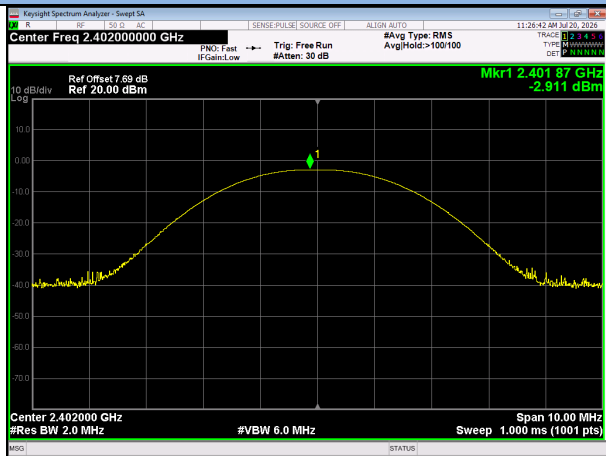
TEST RESULTS

PASS

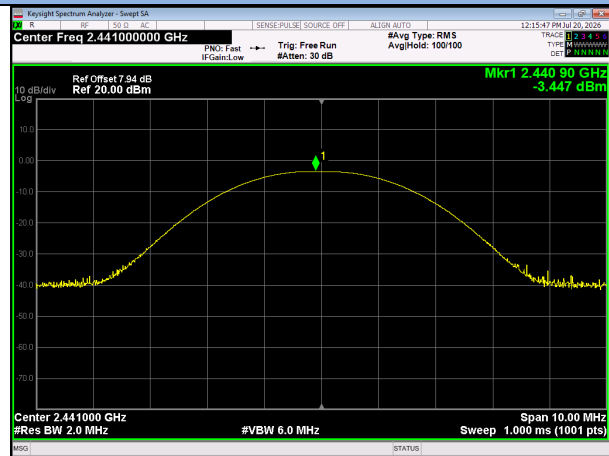
Please refer to the following tables.

Modulation	Frequency (MHz)	Peak Power output Measurement (dBm)	Peak Power output Measurement (mW)	Peak Power Limit (dBm)	Test Result
GFSK	2402.00	-2.911	0.51	21	Pass
	2441.00	-3.447	0.45	21	Pass
	2480.00	-0.452	0.90	21	Pass
$\pi/4$ -DQPSK	2402.00	-1.538	0.70	21	Pass
	2441.00	-0.871	0.82	21	Pass
	2480.00	2.121	1.63	21	Pass
8DPSK	2402.00	-0.974	0.80	21	Pass
	2441.00	-0.300	0.93	21	Pass
	2480.00	2.712	1.87	21	Pass

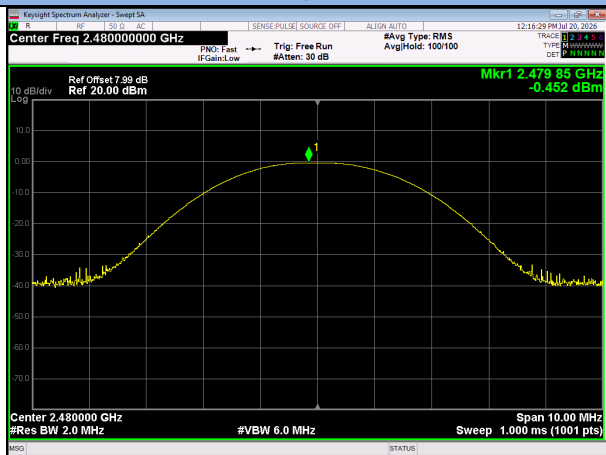
GFSK / Low Channel



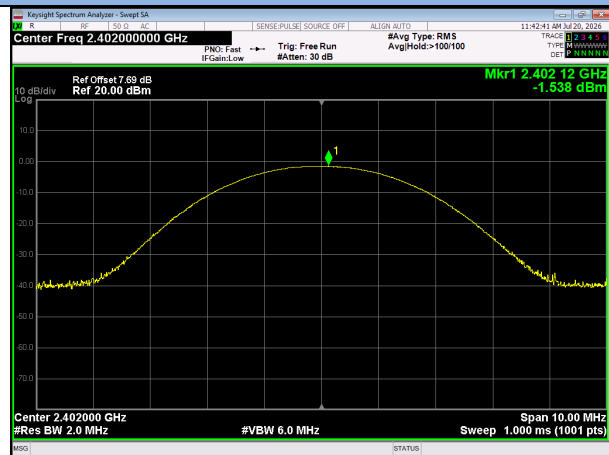
GFSK / Mid Channel



GFSK / High Channel



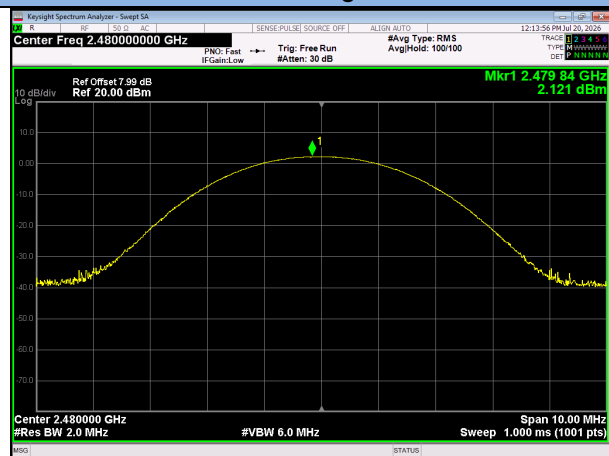
$\pi/4$ -DQPSK / Low Channel

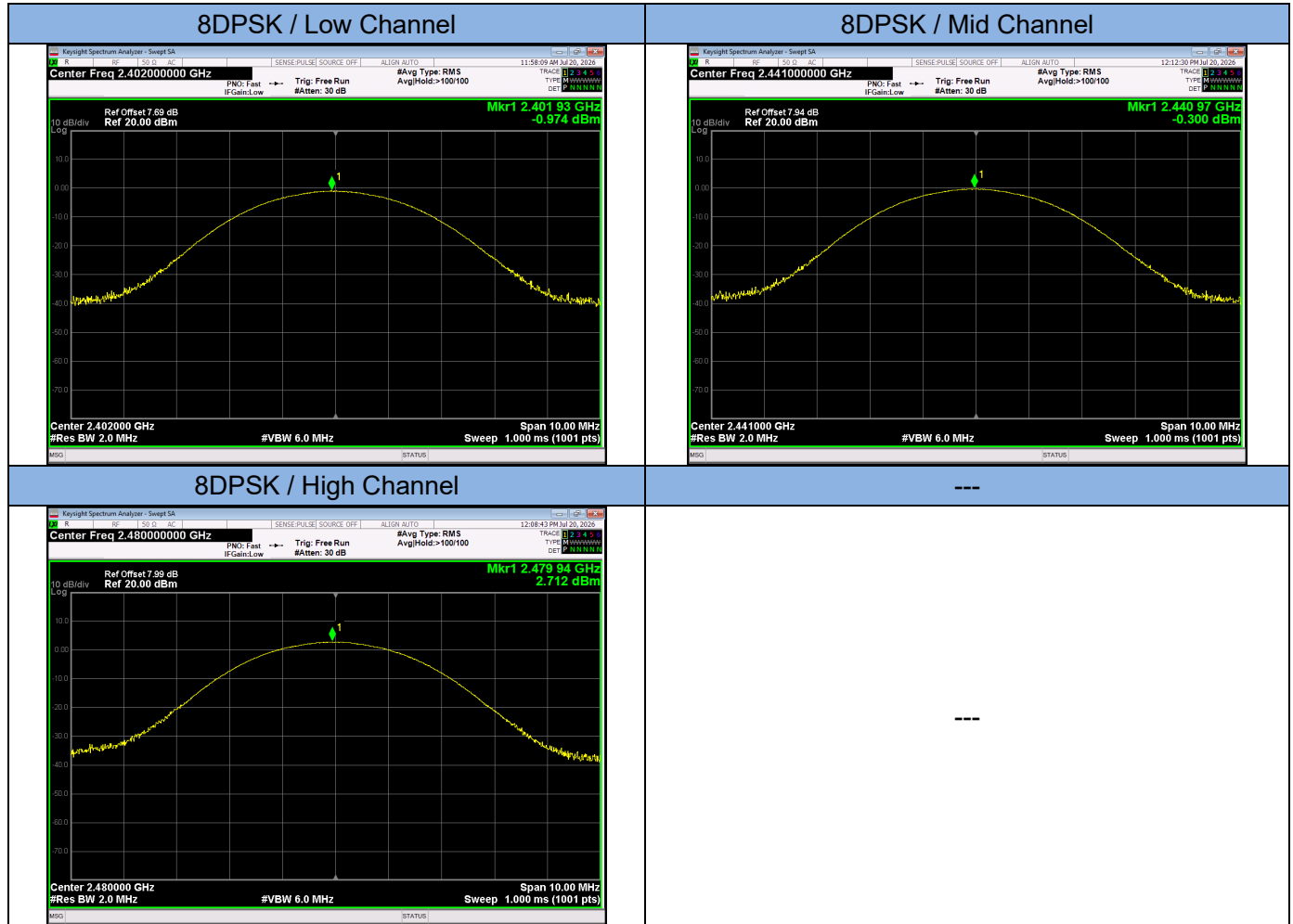


$\pi/4$ -DQPSK / Mid Channel



$\pi/4$ -DQPSK / High Channel



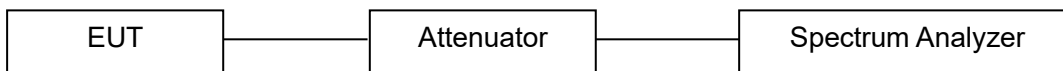


13.8 Band Edge Conducted Spurious Emission Measurement

LIMIT

In any 100KHz 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 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.6 and 6.10.
- Enable hopping function of the EUT and then repeat steps above.

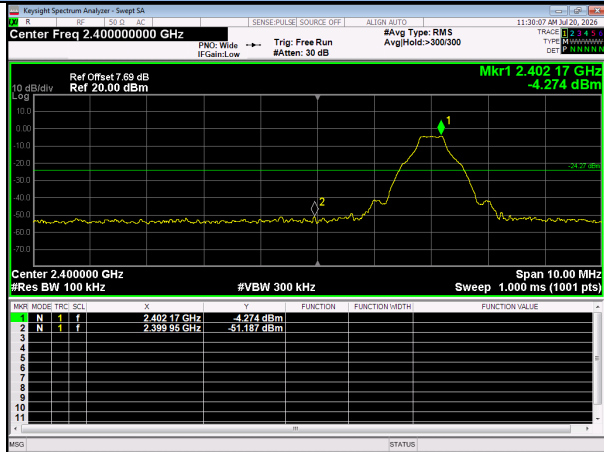
TEST RESULTS

PASS

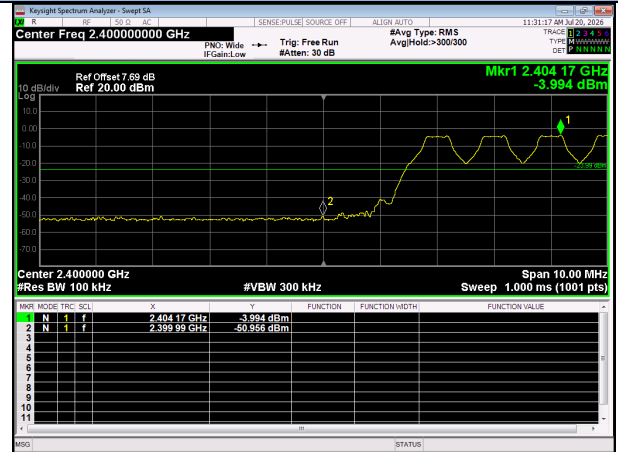
Please refer to the following test plots.

Band Edge

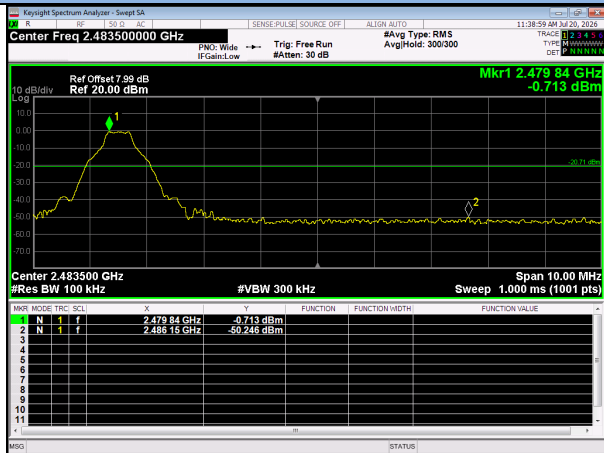
GFSK / Low / 2402



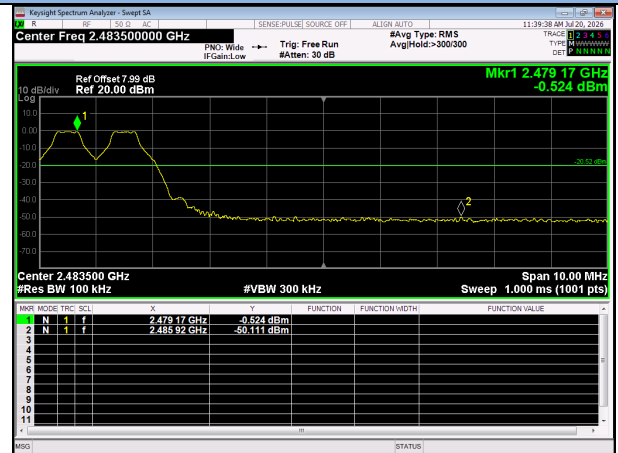
GFSK / Hopping



GFSK / High / 2480

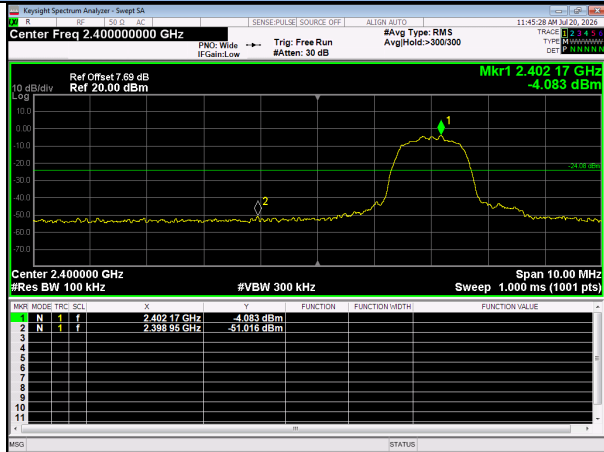


GFSK / Hopping

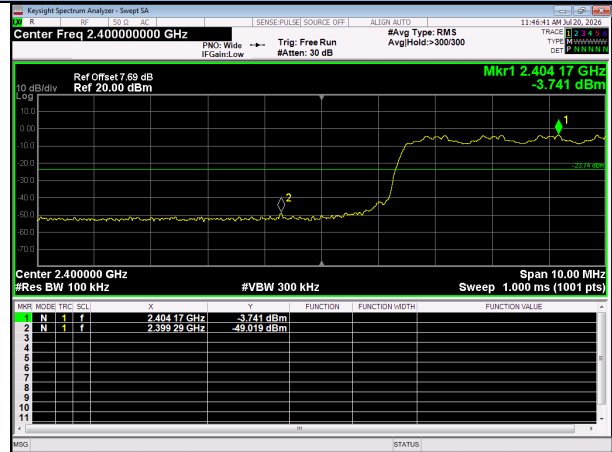


Band Edge

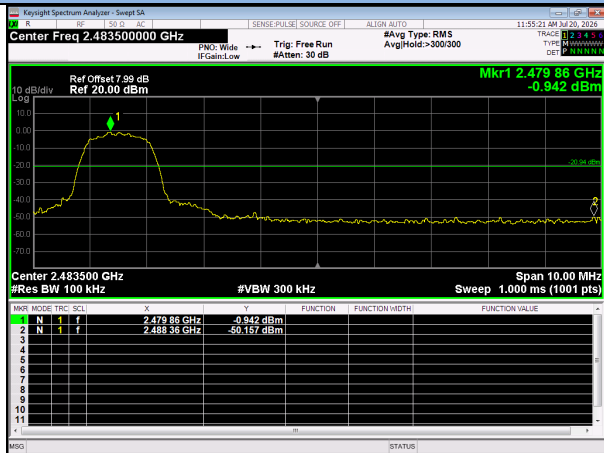
$\pi/4$ -DQPSK / Low / 2402



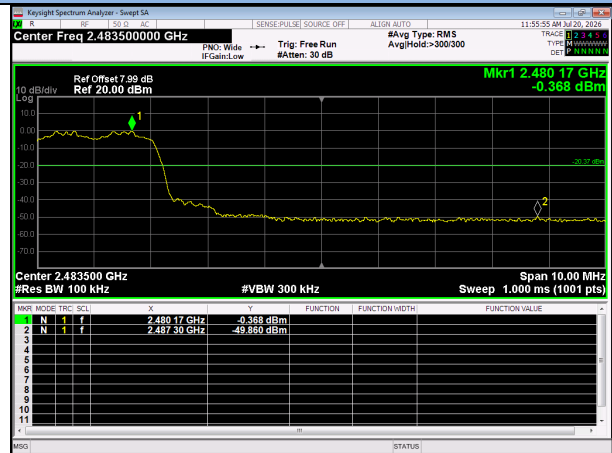
$\pi/4$ -DQPSK / Hopping



$\pi/4$ -DQPSK / High / 2480

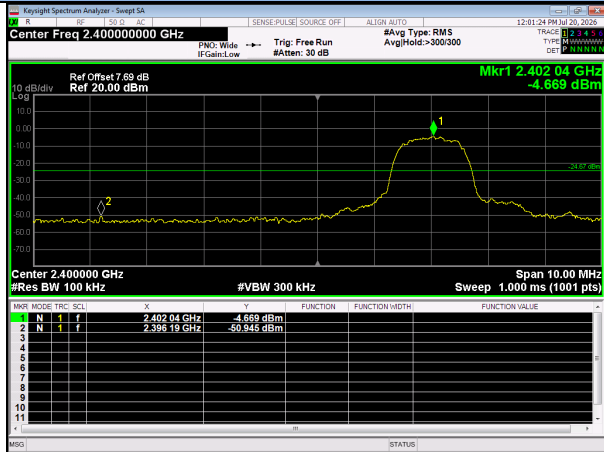


$\pi/4$ -DQPSK / Hopping

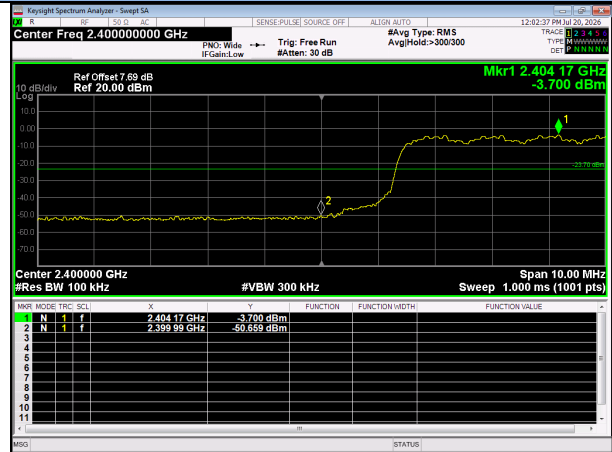


Band Edge

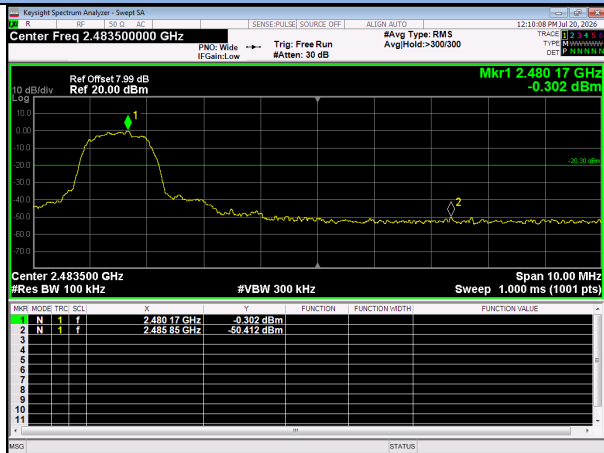
8DPSK / Low / 2402



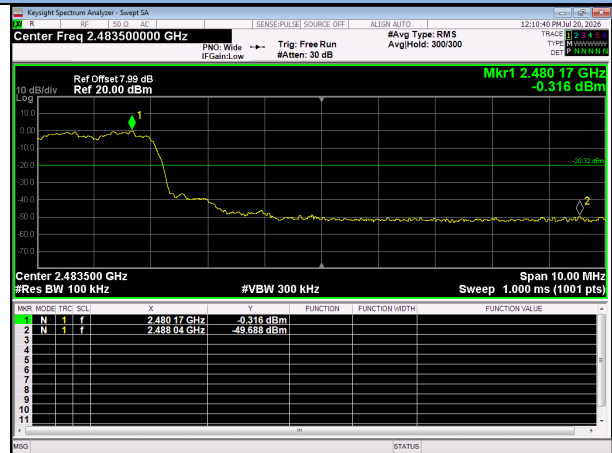
8DPSK / Hopping



8DPSK / High / 2480

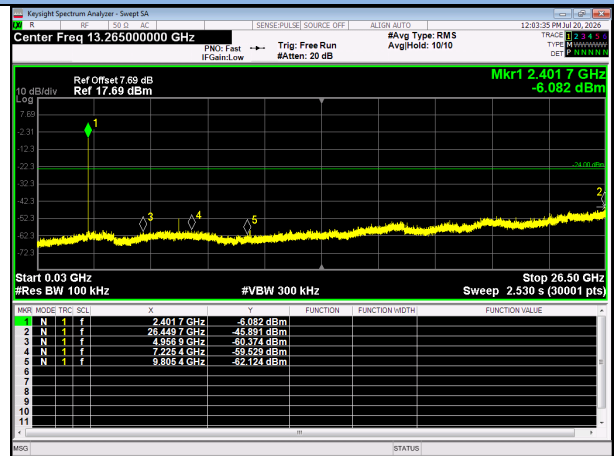


8DPSK / Hopping

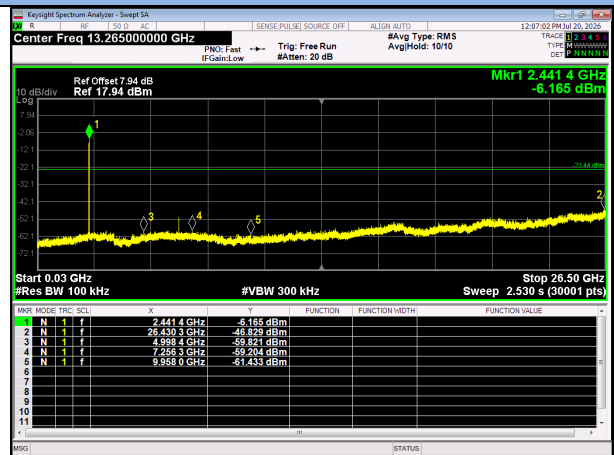


Conducted Spurious Emission (the worst case)

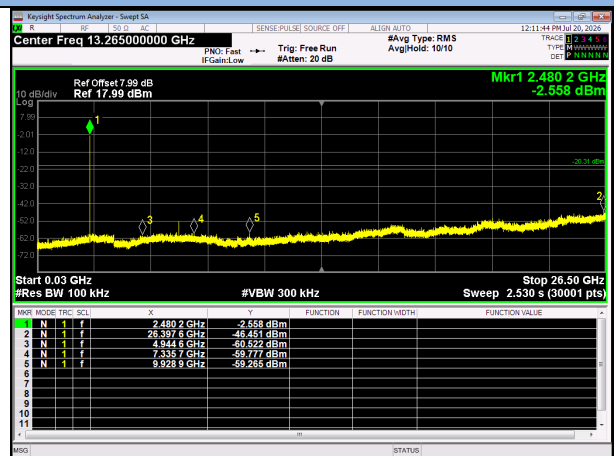
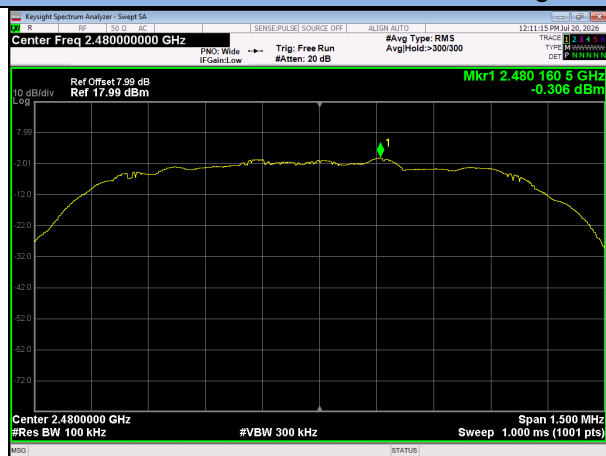
8DPSK / Low Channel / 30MHz~26.5GHz



8DPSK / Mid Channel / 30MHz~26.5GHz



8DPSK / High Channel / 30MHz~26.5GHz



13.9 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.247:

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.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

ANTENNA CONNECTED CONSTRUCTION

The antenna is Chip antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0.21dBi, Therefore, the antenna is considered to meet the requirement.

14. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	101152	Aug. 21, 2025	1 Year
2.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Aug. 21, 2025	1 Year
3.	L.I.S.N	Schwarzbeck	NNLK8129	00558	Aug. 23, 2025	1 Year
4.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Aug. 21, 2025	1 Year
5.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Aug. 21, 2025	1 Year
6.	Spectrum Analyzer	Keysight	N9020A	MY50510314	Aug. 21, 2025	1 Year
7.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Aug. 22, 2025	1 Year
8.	Spectrum Analyzer	Keysight	N9010B	MY62170254	Aug. 21, 2025	1 Year
9.	Antenna	Schwarzbeck	VULB9163	01552	Aug. 16, 2025	2 Year
10.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Aug. 16, 2025	2 Year
11.	Horn Antenna	COM-Power	AH-118	071078	Aug. 16, 2025	2 Year
12.	Pre-Amplifier	HP	HP 8447D	1145A00203	Aug. 21, 2025	1 Year
13.	Pre-Amplifier	HP	HP 8449B	3008A00964	Aug. 23, 2025	1 Year
14.	Communication Tester	Rohde & Schwarz	CMW500	109851	Aug. 28, 2025	1 Year
15.	Power Sensor	DARE	RPR3006W	15100041SNO 64	Aug. 28, 2025	1 Year
16.	Horn Antenna	COM-Power	AH-840	10100020	Aug. 28, 2025	2 Year
17.	Temperature & Humidity Chamber	Wanshun	SS-HWHS-80	N/A	Aug. 09, 2025	1 Year
18.	DC Source	ZHAOXIN	KXN305D	N/A	Aug. 23, 2025	1 Year
19.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
20.	Chamber	YIHENG	9*6*6m	N/A	Sep. 22, 2025	2 Year
21.	Test Software	MWRF	MTS 8310, V2.0.0.0	N/A	N/A	N/A
22.	Test Software	EZ	EZ EMC, NTC-3A1.1	N/A	N/A	N/A
23.	Attenuator	COM-MW	DA8-52-0-26.5 G-4115	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.

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