FCC TEST REPORT
FCC ID:2BH5W-701255

Applicant:	Shenzhen Xinvo Technology Co., LTD
Address:	501, 5th Floor, Building 10, Longbi Industrial Park, Dafa road, Bantian Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Xinvo Technology Co., LTD
Address:	501, 5th Floor, Building 10, Longbi Industrial Park, Dafa road, Bantian Street, Longgang District, Shenzhen, China
EUT:	Beamie Baby Wireless Speaker
Trade Mark:	N/A
Model Number:	701255 XV-BS2643-1
Date of Receipt:	Oct. 27, 2025
Test Date:	Oct. 27, 2025 - Oct. 31, 2025
Date of Report:	Oct. 31, 2025
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2020
Test Result:	Pass
Report Number:	DLE-251114005R

Prepared (Test Engineer):	Dimon Tan	Dimon Tan
Reviewer (Supervisor):	Jack Bu	Jack Bu
Approved (Manager):	Jade Yang	Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1. VERSION

Report No.	Version	Description	Approved
DLE-251114005R	Rev.01	Initial issue of report	Oct. 31, 2025

2. TEST SUMMARY

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
15.203/15.247 (c)	Antenna Requirement	PASS	
15.207	AC Power Line Conducted Emission	PASS	
15.247 (b)(1)	Conducted Peak Output Power	PASS	
15.247 (a)(1)	20dB Occupied Bandwidth	PASS	
15.247 (a)(1)	Carrier Frequencies Separation	PASS	
15.247 (a)(1)(iii)	Hopping Channel Number	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.205/15.209	Radiated Emission and Restricted Band	PASS	
15.247(d)	Conducted Unwanted emissions and Band Edge	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen DL Testing Technology Co., Ltd.
Add. : 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolon Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456
Designation Number: CN1307
IC Registered No.: 27485
CAB identifier: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Beamie Baby Wireless Speaker
Model No.:	701255 XV-BS2643-1
Model Different.:	Only for different model name
Serial No.:	N/A
Sample(s) Status:	Engineer sample
Channel numbers:	79
Operation Frequency:	2402MHz ~ 2480MHz
Modulation technology:	GFSK, π/4-DQPSK
Antenna Type:	PCB Antenna
Antenna gain:	-0.68dBi
Power supply:	Input : 5V⎓1A Battery : 3.7V, 300mAh, 1.11Wh

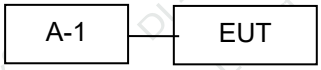
Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

3.2 Test Setup Configuration

Conducted Emission



Radiated Emission

3.3 Support Equipment

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Beamie Baby Wireless Speaker	N/A	701255	N/A	EUT
A-1	Power adapter	N/A	X569	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

3.4 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
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.	

Test Software	FCC_assist_1.0.2.2
Power level setup	10dBm

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 01, 2024	Oct. 31, 2025
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0

4. EMC EMISSION TEST

4.1 Conducted emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

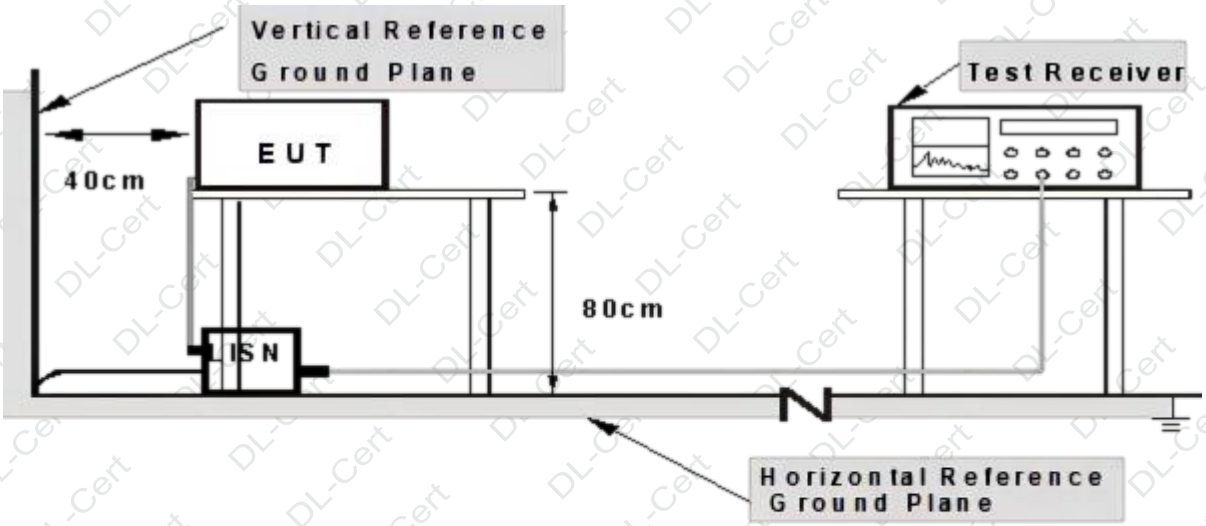
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



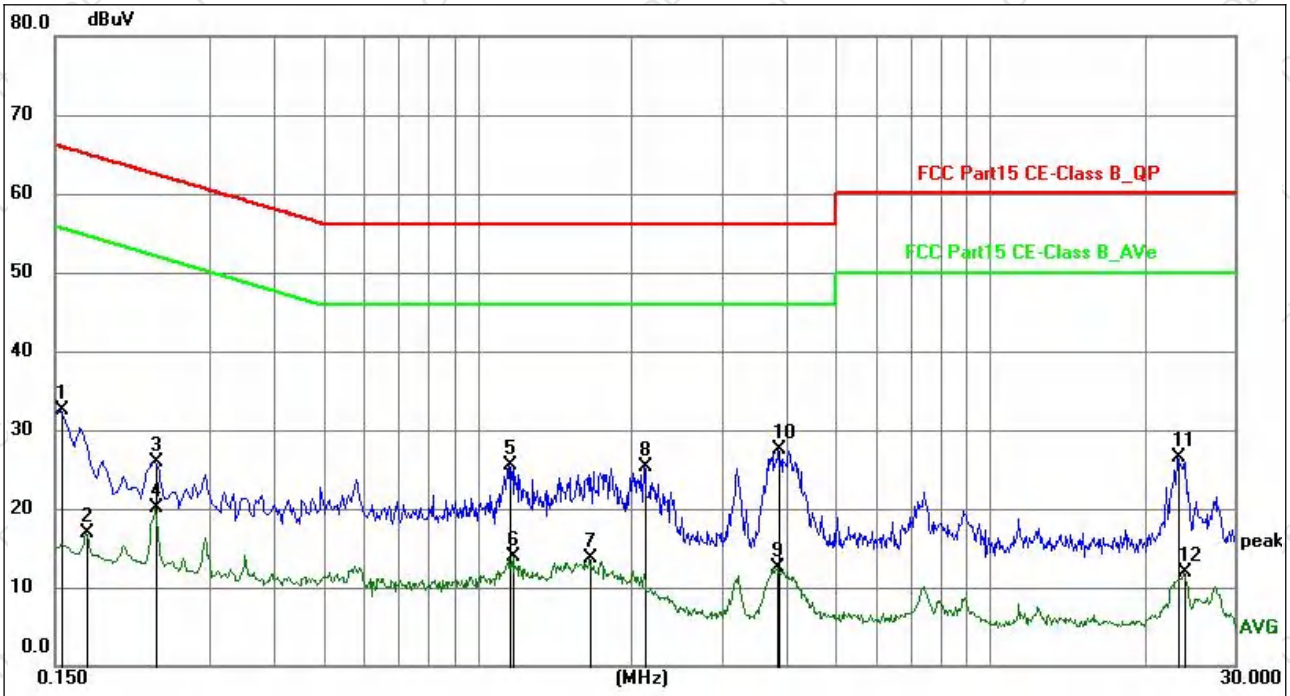
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

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

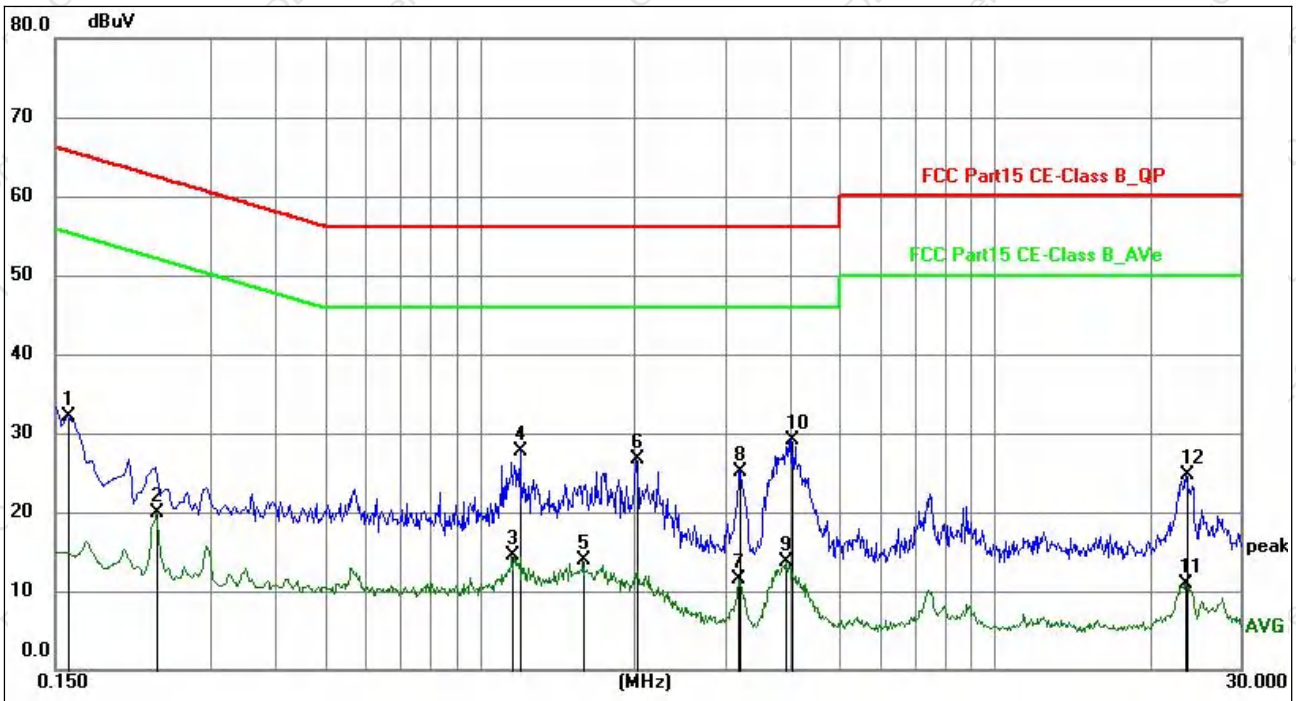
4.1.6 Test Result

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	π /4-DQPSK 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	22.90	9.62	32.52	65.75	-33.23	QP	P	
2	0.1725	7.27	9.62	16.89	54.84	-37.95	AVG	P	
3	0.2355	16.39	9.61	26.00	62.25	-36.25	QP	P	
4	0.2355	10.52	9.61	20.13	52.25	-32.12	AVG	P	
5	1.1580	15.91	9.61	25.52	56.00	-30.48	QP	P	
6	1.1760	4.32	9.61	13.93	46.00	-32.07	AVG	P	
7	1.6575	4.04	9.61	13.65	46.00	-32.35	AVG	P	
8	2.1120	15.65	9.61	25.26	56.00	-30.74	QP	P	
9	3.8490	2.87	9.63	12.50	46.00	-33.50	AVG	P	
10	3.8625	17.95	9.63	27.58	56.00	-28.42	QP	P	
11	23.2260	16.92	9.62	26.54	60.00	-33.46	QP	P	
12	24.0000	2.35	9.62	11.97	50.00	-38.03	AVG	P	

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	π/4-DQPSK 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1590	22.48	9.64	32.12	65.52	-33.40	QP	P	
2	0.2355	10.23	9.63	19.86	52.25	-32.39	AVG	P	
3	1.1535	4.86	9.62	14.48	46.00	-31.52	AVG	P	
4	1.2030	18.08	9.62	27.70	56.00	-28.30	QP	P	
5	1.5900	4.34	9.62	13.96	46.00	-32.04	AVG	P	
6	2.0175	17.06	9.62	26.68	56.00	-29.32	QP	P	
7	3.1875	1.82	9.64	11.46	46.00	-34.54	AVG	P	
8	3.2055	15.44	9.64	25.08	56.00	-30.92	QP	P	
9	3.9345	4.00	9.65	13.65	46.00	-32.35	AVG	P	
10	4.0425	19.49	9.65	29.14	56.00	-26.86	QP	P	
11	23.4960	1.28	9.65	10.93	50.00	-39.07	AVG	P	
12	23.5140	15.09	9.65	24.74	60.00	-35.26	QP	P	

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 = Reading level + Correct Factor.
4.Correct Factor = Lisn factor+ Cable loss factor + limiter factor.
5.Margin = Measurement Level-Limit.
6.The test data shows only the worst case π/4-DQPSK 2480MHz mode

4.2 Radiated emissions

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2020
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	MX5Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

4.2.1 Radiated Emission Limits

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

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

Note:

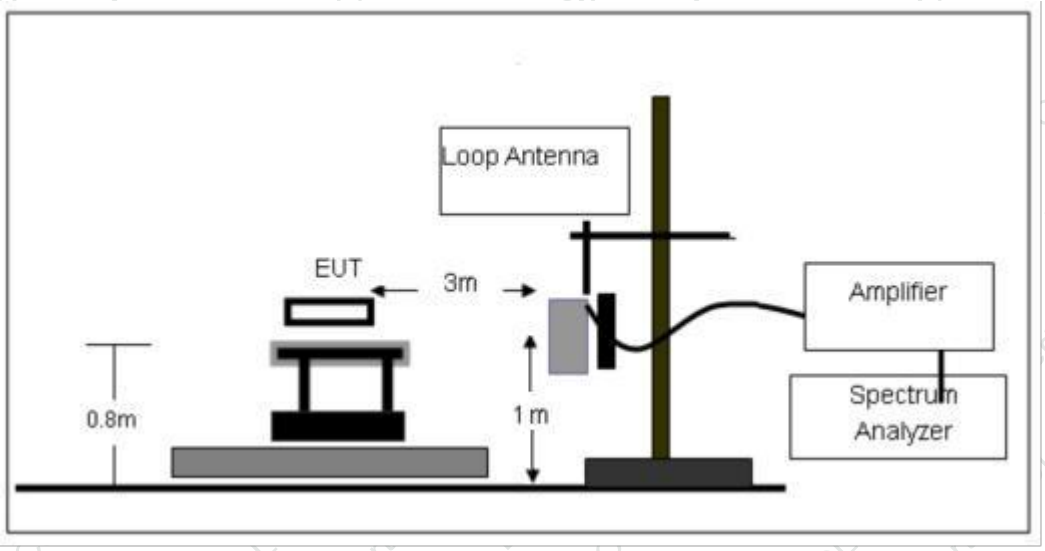
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

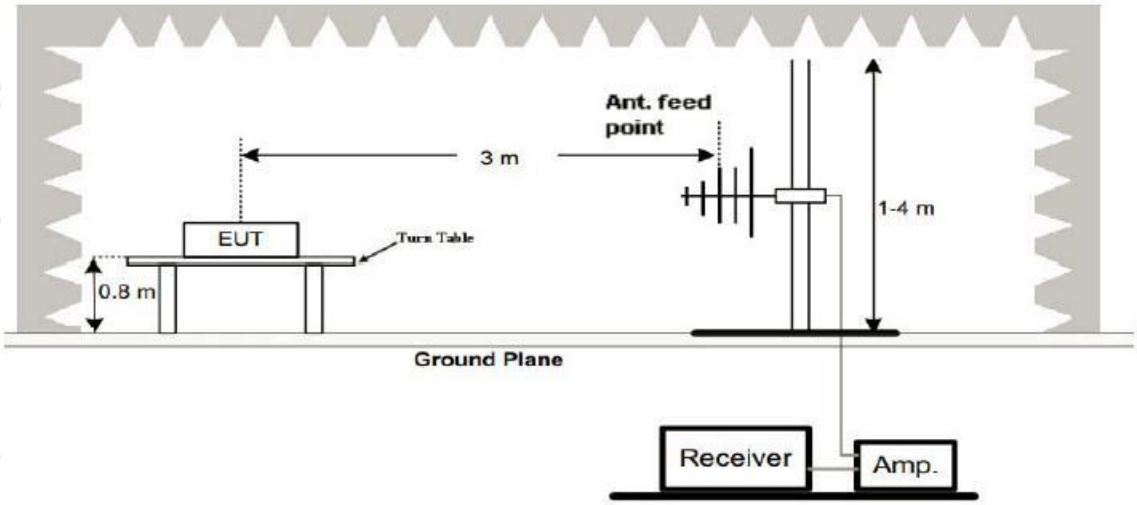
No deviation

4.2.4 TEST SETUP

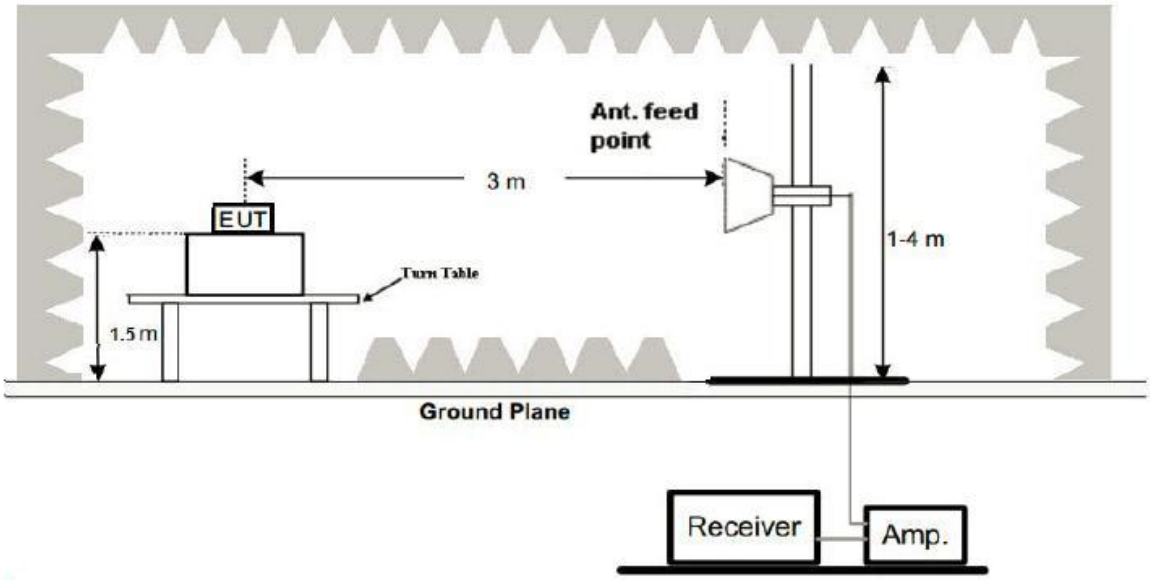
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

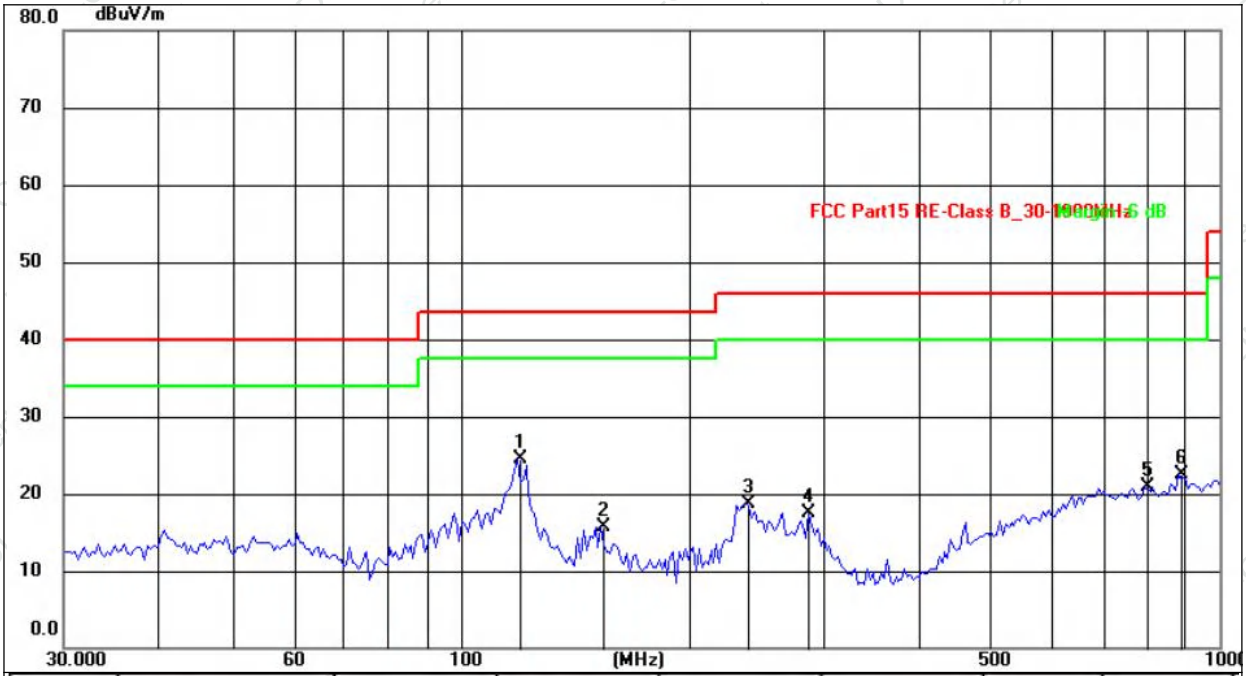
4.2.6 TEST RESULTS

Between 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) & RSS-Gen 6.13, the test result no need to reported.

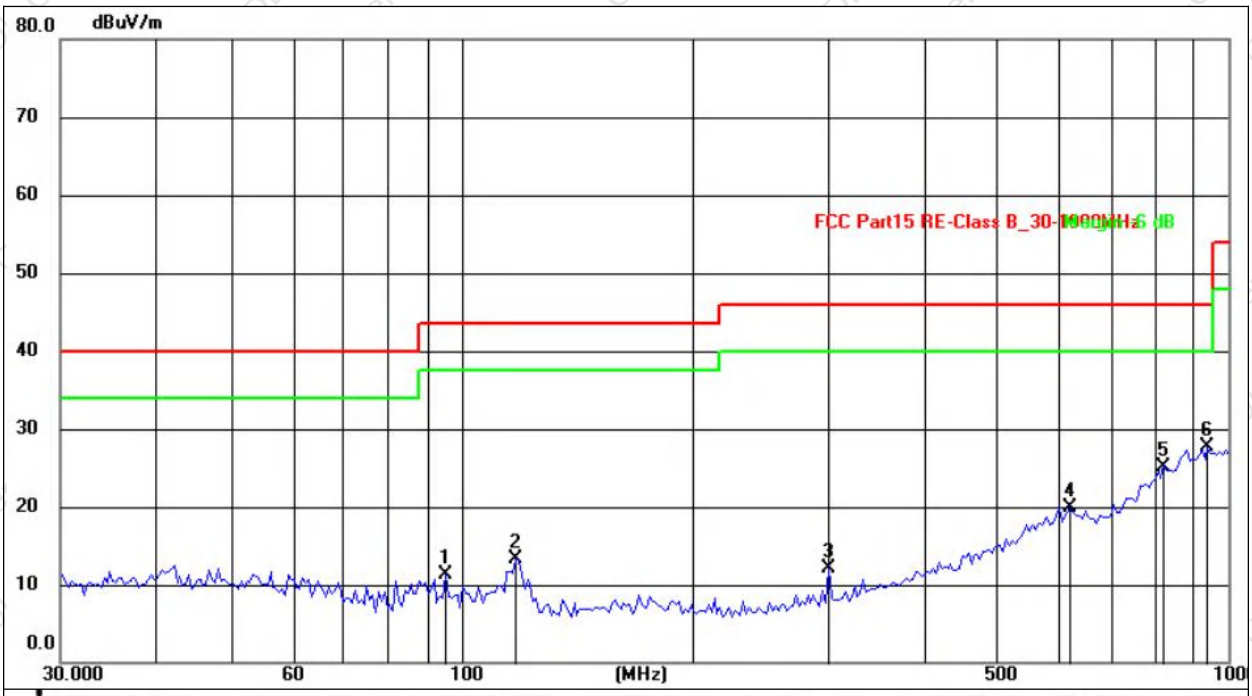
Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test Mode:	π/4-DQPSK 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	118.8095	43.30	-18.84	24.46	43.50	-19.04	QP
2	153.2004	32.71	-16.98	15.73	43.50	-27.77	QP
3	237.4760	36.55	-17.84	18.71	46.00	-27.29	QP
4	287.9904	34.70	-17.28	17.42	46.00	-28.58	QP
5	796.1830	29.84	-8.95	20.89	46.00	-25.11	QP
6	884.5029	31.47	-8.98	22.49	46.00	-23.51	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode:	π /4-DQPSK 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	95.4269	32.68	-21.34	11.34	43.50	-32.16	QP
2	117.7725	34.78	-21.53	13.25	43.50	-30.25	QP
3	300.8943	32.43	-20.30	12.13	46.00	-33.87	QP
4	622.8900	29.72	-9.74	19.98	46.00	-26.02	QP
5	824.5968	30.08	-4.88	25.20	46.00	-20.80	QP
6	940.4801	30.18	-2.53	27.65	46.00	-18.35	QP

Remarks:
1.An initial pre-scan was performed on the peak detector.
2.Quasi - Peak measurement were performed at the frequencies with maximized peak emission.
3.The emission levels of other frequencies are very lower than the limit and not show in test report.
4.Final Level = Reading level + Correct Factor.
5.Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6.Margin = Measurement Level-Limit.
7.The test data shows only the worst case π/4-DQPSK 2480MHz mode

1GHz~25GHz

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	50.89	30.55	5.77	24.66	50.77	74.00	-23.23	Pk
V	4804.00	43.42	30.55	5.77	24.66	43.30	54.00	-10.70	AV
V	7206.00	53.49	30.33	6.32	24.55	54.03	74.00	-19.97	Pk
V	7206.00	43.96	30.33	6.32	24.55	44.50	54.00	-9.50	AV
V	9608.00	52.59	30.85	7.45	24.69	53.88	74.00	-20.12	Pk
V	9608.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
V	12010.00	51.49	31.02	8.99	25.57	55.03	74.00	-18.97	Pk
V	12010.00	43.59	31.02	8.99	25.57	47.13	54.00	-6.87	AV
H	4804.00	54.02	30.55	5.77	24.66	53.90	74.00	-20.10	Pk
H	4804.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
H	7206.00	54.65	30.33	6.32	24.55	55.19	74.00	-18.81	Pk
H	7206.00	43.16	30.33	6.32	24.55	43.70	54.00	-10.30	AV
H	9608.00	51.54	30.85	7.45	24.69	52.83	74.00	-21.17	Pk
H	9608.00	43.98	30.85	7.45	24.69	45.27	54.00	-8.73	AV
H	12010.00	51.09	31.02	8.99	25.57	54.63	74.00	-19.37	Pk
H	12010.00	43.41	31.02	8.99	25.57	46.95	54.00	-7.05	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	50.67	30.55	5.77	24.66	50.55	74.00	-23.45	Pk
V	4882.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	7323.00	50.12	30.33	6.32	24.55	50.66	74.00	-23.34	Pk
V	7323.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
V	9764.00	50.54	30.85	7.45	24.69	51.83	74.00	-22.17	Pk
V	9764.00	43.41	30.85	7.45	24.69	44.70	54.00	-9.30	AV
V	12205.00	51.98	31.02	8.99	25.57	55.52	74.00	-18.48	Pk
V	12205.00	43.54	31.02	8.99	25.57	47.08	54.00	-6.92	AV
H	4882.00	54.65	30.55	5.77	24.66	54.53	74.00	-19.47	Pk
H	4882.00	43.66	30.55	5.77	24.66	43.54	54.00	-10.46	AV
H	7323.00	54.21	30.33	6.32	24.55	54.75	74.00	-19.25	Pk
H	7323.00	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV
H	9764.00	51.21	30.85	7.45	24.69	52.50	74.00	-21.50	Pk
H	9764.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
H	12205.00	54.80	31.02	8.99	25.57	58.34	74.00	-15.66	Pk
H	12205.00	43.61	31.02	8.99	25.57	47.15	54.00	-6.85	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	53.87	30.55	5.77	24.66	53.75	74.00	-20.25	Pk
V	4960.00	43.97	30.55	5.77	24.66	43.85	54.00	-10.15	AV
V	7440.00	53.68	30.33	6.32	24.55	54.22	74.00	-19.78	Pk
V	7440.00	43.99	30.33	6.32	24.55	44.53	54.00	-9.47	AV
V	9920.00	54.93	30.85	7.45	24.69	56.22	74.00	-17.78	Pk
V	9920.00	43.76	30.85	7.45	24.69	45.05	54.00	-8.95	AV
V	12400.00	50.26	31.02	8.99	25.57	53.80	74.00	-20.20	Pk
V	12400.00	43.20	31.02	8.99	25.57	46.74	54.00	-7.26	AV
H	4960.00	53.23	30.55	5.77	24.66	53.11	74.00	-20.89	Pk
H	4960.00	43.60	30.55	5.77	24.66	43.48	54.00	-10.52	AV
H	7440.00	50.90	30.33	6.32	24.55	51.44	74.00	-22.56	Pk
H	7440.00	43.63	30.33	6.32	24.55	44.17	54.00	-9.83	AV
H	9920.00	51.59	30.85	7.45	24.69	52.88	74.00	-21.12	Pk
H	9920.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
H	12400.00	52.74	31.02	8.99	25.57	56.28	74.00	-17.72	Pk
H	12400.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV

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

π/4-DQPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	50.09	30.55	5.77	24.66	49.97	74.00	-24.03	Pk
V	4804.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
V	7206.00	54.04	30.33	6.32	24.55	54.58	74.00	-19.42	Pk
V	7206.00	43.82	30.33	6.32	24.55	44.36	54.00	-9.64	AV
V	9608.00	52.99	30.85	7.45	24.69	54.28	74.00	-19.72	Pk
V	9608.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
V	12010.00	52.60	31.02	8.99	25.57	56.14	74.00	-17.86	Pk
V	12010.00	43.33	31.02	8.99	25.57	46.87	54.00	-7.13	AV
H	4804.00	50.07	30.55	5.77	24.66	49.95	74.00	-24.05	Pk
H	4804.00	43.80	30.55	5.77	24.66	43.68	54.00	-10.32	AV
H	7206.00	51.26	30.33	6.32	24.55	51.80	74.00	-22.20	Pk
H	7206.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV
H	9608.00	50.83	30.85	7.45	24.69	52.12	74.00	-21.88	Pk
H	9608.00	43.36	30.85	7.45	24.69	44.65	54.00	-9.35	AV
H	12010.00	51.36	31.02	8.99	25.57	54.90	74.00	-19.10	Pk
H	12010.00	43.10	31.02	8.99	25.57	46.64	54.00	-7.36	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	54.28	30.55	5.77	24.66	54.16	74.00	-19.84	Pk
V	4882.00	43.36	30.55	5.77	24.66	43.24	54.00	-10.76	AV
V	7323.00	52.34	30.33	6.32	24.55	52.88	74.00	-21.12	Pk
V	7323.00	43.92	30.33	6.32	24.55	44.46	54.00	-9.54	AV
V	9764.00	53.85	30.85	7.45	24.69	55.14	74.00	-18.86	Pk
V	9764.00	43.72	30.85	7.45	24.69	45.01	54.00	-8.99	AV
V	12205.00	52.19	31.02	8.99	25.57	55.73	74.00	-18.27	Pk
V	12205.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV
H	4882.00	54.16	30.55	5.77	24.66	54.04	74.00	-19.96	Pk
H	4882.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
H	7323.00	54.53	30.33	6.32	24.55	55.07	74.00	-18.93	Pk
H	7323.00	43.50	30.33	6.32	24.55	44.04	54.00	-9.96	AV
H	9764.00	53.20	30.85	7.45	24.69	54.49	74.00	-19.51	Pk
H	9764.00	43.86	30.85	7.45	24.69	45.15	54.00	-8.85	AV
H	12205.00	54.38	31.02	8.99	25.57	57.92	74.00	-16.08	Pk
H	12205.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	54.37	30.55	5.77	24.66	54.25	74.00	-19.75	Pk
V	4960.00	43.64	30.55	5.77	24.66	43.52	54.00	-10.48	AV
V	7440.00	54.86	30.33	6.32	24.55	55.40	74.00	-18.60	Pk
V	7440.00	43.33	30.33	6.32	24.55	43.87	54.00	-10.13	AV
V	9920.00	54.10	30.85	7.45	24.69	55.39	74.00	-18.61	Pk
V	9920.00	43.18	30.85	7.45	24.69	44.47	54.00	-9.53	AV
V	12400.00	52.35	31.02	8.99	25.57	55.89	74.00	-18.11	Pk
V	12400.00	43.19	31.02	8.99	25.57	46.73	54.00	-7.27	AV
H	4960.00	54.78	30.55	5.77	24.66	54.66	74.00	-19.34	Pk
H	4960.00	43.34	30.55	5.77	24.66	43.22	54.00	-10.78	AV
H	7440.00	51.96	30.33	6.32	24.55	52.50	74.00	-21.50	Pk
H	7440.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
H	9920.00	52.57	30.85	7.45	24.69	53.86	74.00	-20.14	Pk
H	9920.00	43.57	30.85	7.45	24.69	44.86	54.00	-9.14	AV
H	12400.00	52.56	31.02	8.99	25.57	56.10	74.00	-17.90	Pk
H	12400.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV

Remark:

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

5. RADIATED BAND EMISSION MEASUREMENT

5.1 Test Requirement:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10:2020
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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 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.

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

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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

Note:

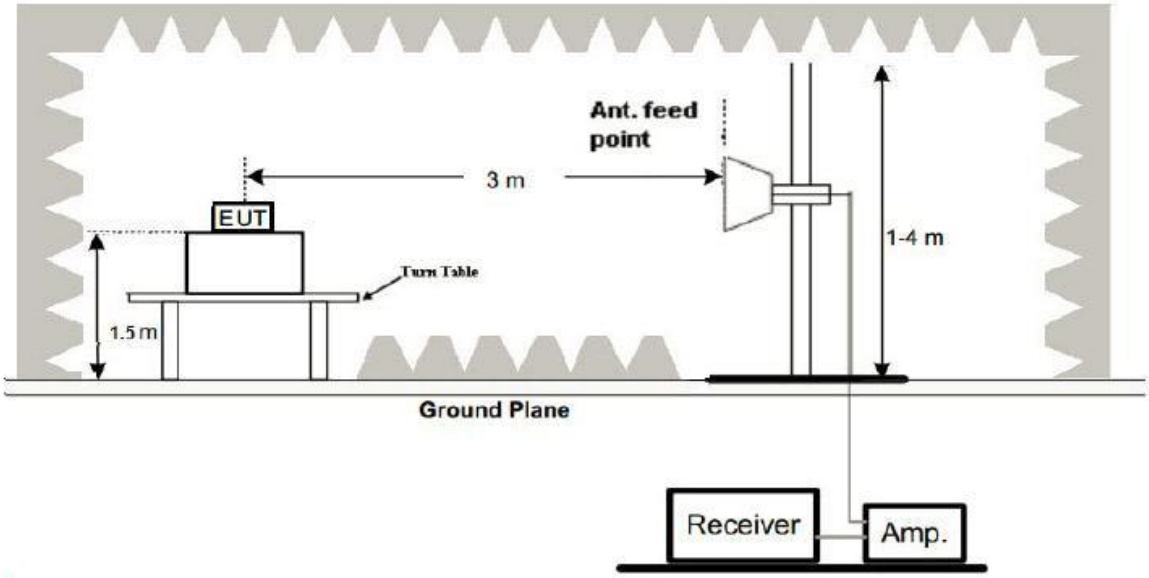
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 5.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Detector Type	Result
GFSK	Low Channel: 2402MHz									
	H	2310.00	54.14	30.22	4.85	23.98	52.75	74.00	PK	PASS
	H	2310.00	44.59	30.22	4.85	23.98	43.20	54.00	AV	PASS
	H	2400.00	54.32	30.22	4.85	23.98	52.93	74.00	PK	PASS
	H	2400.00	44.61	30.22	4.85	23.98	43.22	54.00	AV	PASS
	V	2310.00	54.19	30.22	4.85	23.98	52.80	74.00	PK	PASS
	V	2310.00	44.20	30.22	4.85	23.98	42.81	54.00	AV	PASS
	V	2400.00	54.50	30.22	4.85	23.98	53.11	74.00	PK	PASS
	V	2400.00	44.12	30.22	4.85	23.98	42.73	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	54.01	30.22	4.85	23.98	52.62	74.00	Pk	PASS
	H	2483.50	44.65	30.22	4.85	23.98	43.26	54.00	AV	PASS
	H	2500.00	54.29	30.22	4.85	23.98	52.90	74.00	Pk	PASS
	H	2500.00	44.50	30.22	4.85	23.98	43.11	54.00	AV	PASS
	V	2483.50	53.64	30.22	4.85	23.98	52.25	74.00	Pk	PASS
	V	2483.50	44.85	30.22	4.85	23.98	43.46	54.00	AV	PASS
	V	2500.00	54.70	30.22	4.85	23.98	53.31	74.00	Pk	PASS
	V	2500.00	44.30	30.22	4.85	23.98	42.91	54.00	AV	PASS
π/4-DQPSK	Low Channel: 2402MHz									
	H	2310.00	54.74	30.22	4.85	23.98	53.35	74.00	PK	PASS
	H	2310.00	44.89	30.22	4.85	23.98	43.50	54.00	AV	PASS
	H	2400.00	54.82	30.22	4.85	23.98	53.43	74.00	PK	PASS
	H	2400.00	44.63	30.22	4.85	23.98	43.24	54.00	AV	PASS
	V	2310.00	53.53	30.22	4.85	23.98	52.14	74.00	PK	PASS
	V	2310.00	44.09	30.22	4.85	23.98	42.70	54.00	AV	PASS
	V	2400.00	54.60	30.22	4.85	23.98	53.21	74.00	PK	PASS
	V	2400.00	44.30	30.22	4.85	23.98	42.91	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	54.88	30.22	4.85	23.98	53.49	74.00	PK	PASS
	H	2483.50	44.88	30.22	4.85	23.98	43.49	54.00	AV	PASS
	H	2500.00	53.81	30.22	4.85	23.98	52.42	74.00	PK	PASS
	H	2500.00	44.75	30.22	4.85	23.98	43.36	54.00	AV	PASS
	V	2483.50	53.66	30.22	4.85	23.98	52.27	74.00	PK	PASS
	V	2483.50	44.65	30.22	4.85	23.98	43.26	54.00	AV	PASS
	V	2500.00	54.50	30.22	4.85	23.98	53.11	74.00	PK	PASS
	V	2500.00	44.54	30.22	4.85	23.98	43.15	54.00	AV	PASS

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

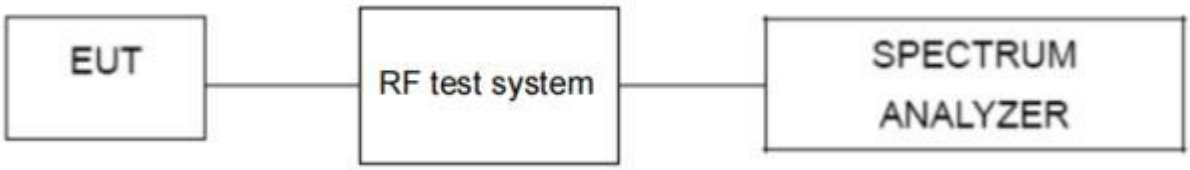
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 Limit

Regulation 15.247 (d),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 §15.209(a) is not required. 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)).

6.2 Test Setup



6.3 Test procedure

Using the following spectrum analyzer setting:
A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

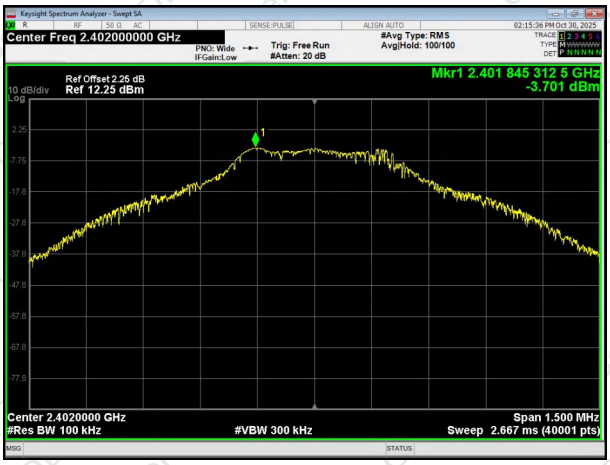
6.4 DEVIATION FROM STANDARD

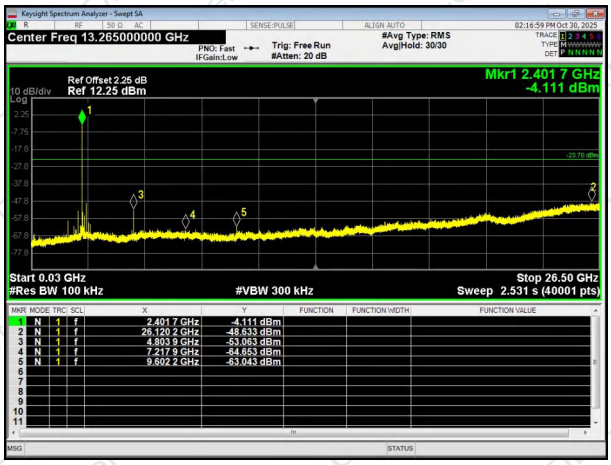
No deviation.

6.5 Test Result

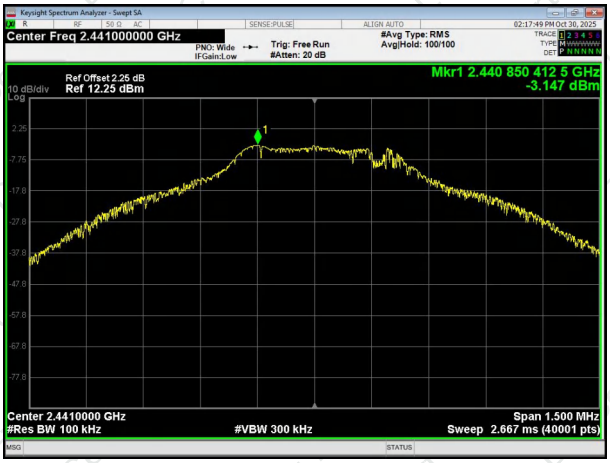
GFSK mode:

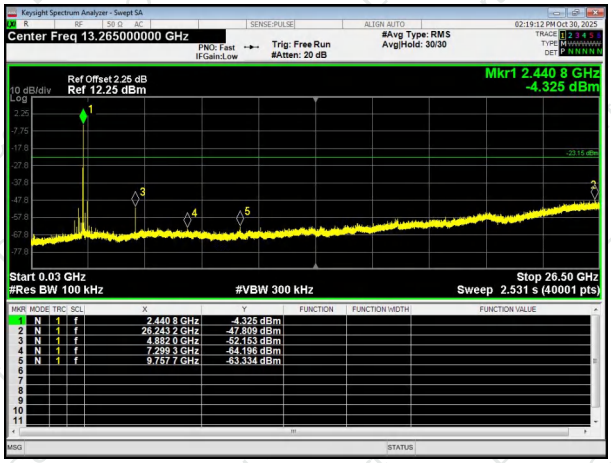
Lowest channel



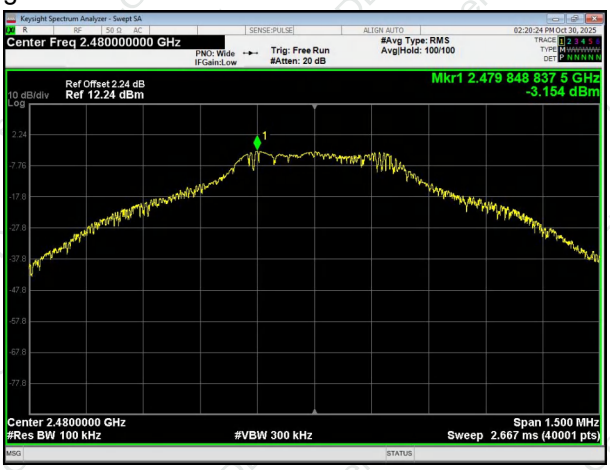


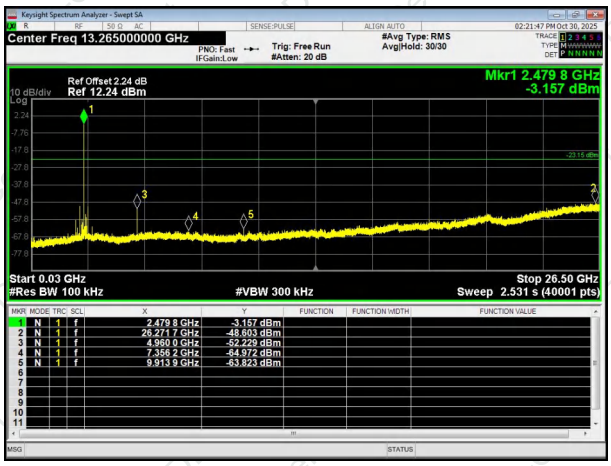
Middle channel





Highest channel

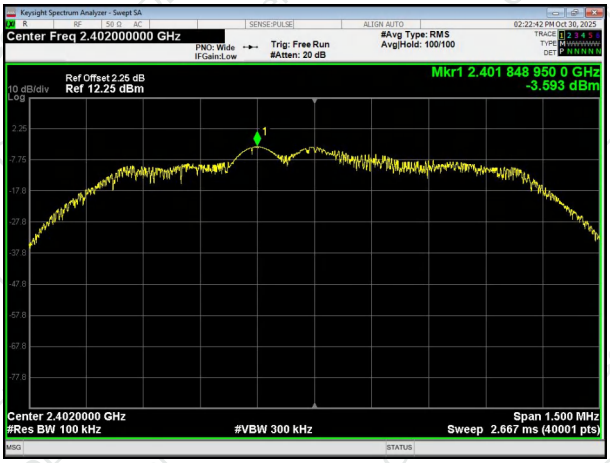


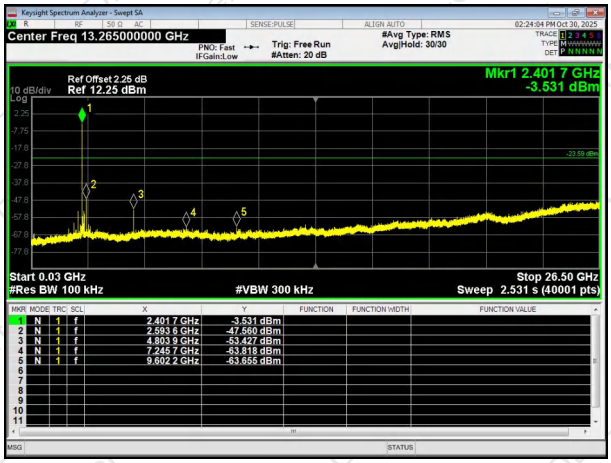


30MHz~26.5GHz

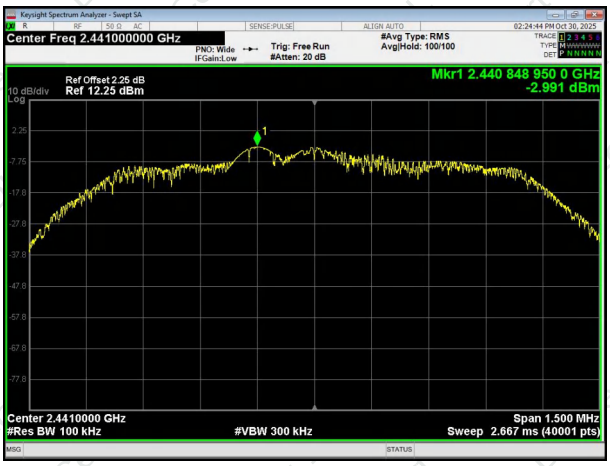
π/4-DQPSK mode

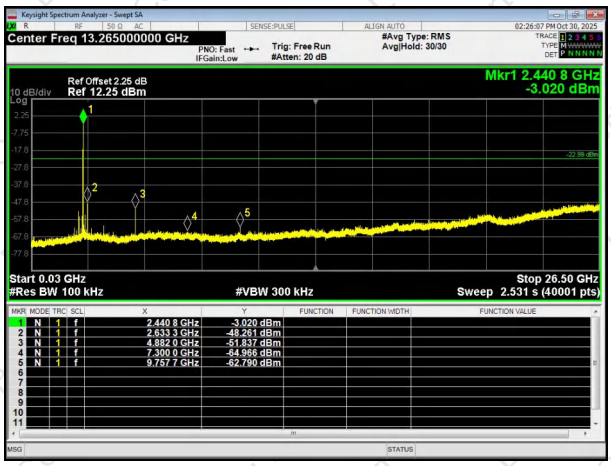
Lowest channel



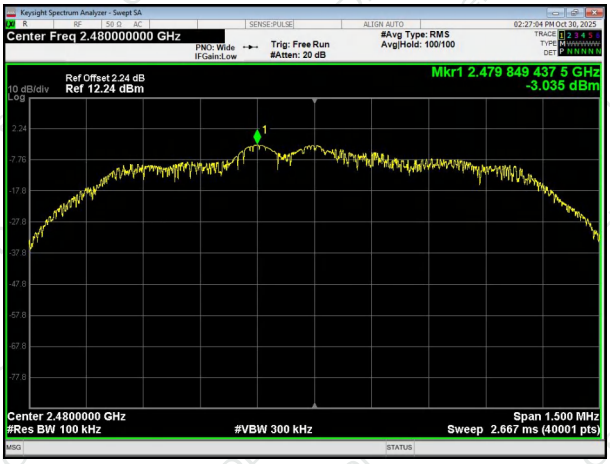


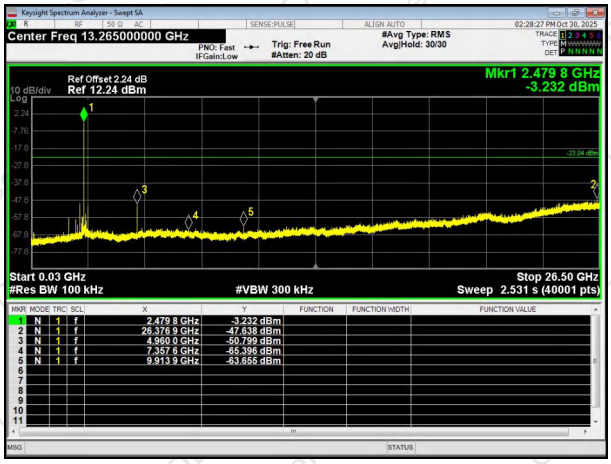
Middle channel





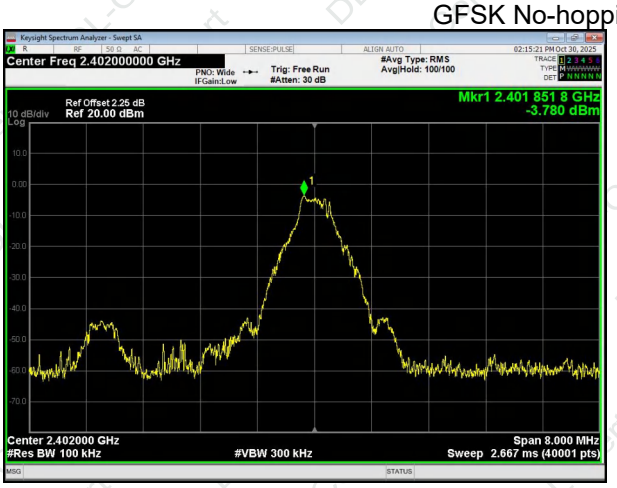
Highest channel

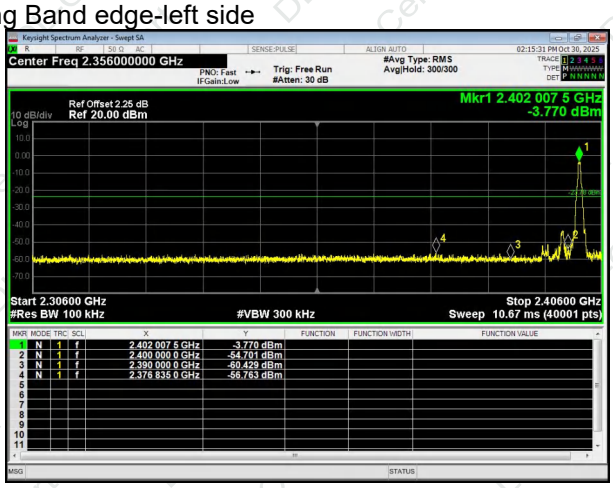




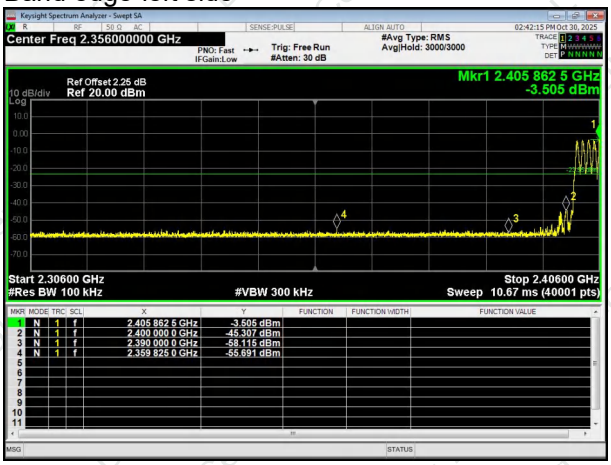
30MHz~26.5GHz

GFSK No-hopping Band edge-left side

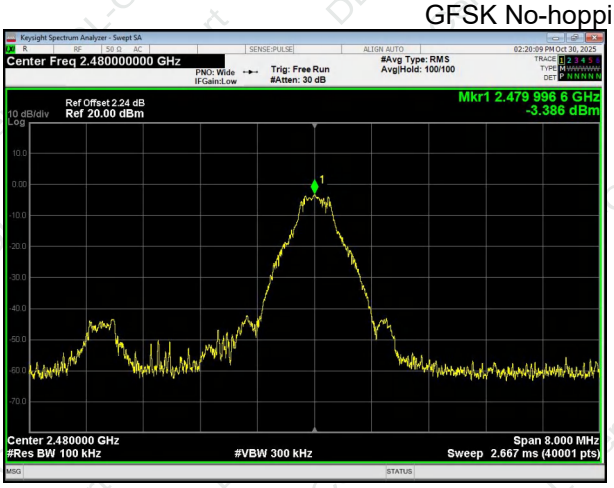


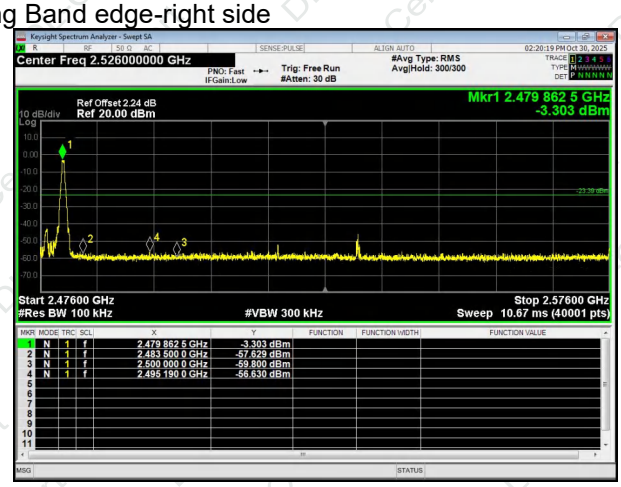


GFSK Hopping Band edge-left side

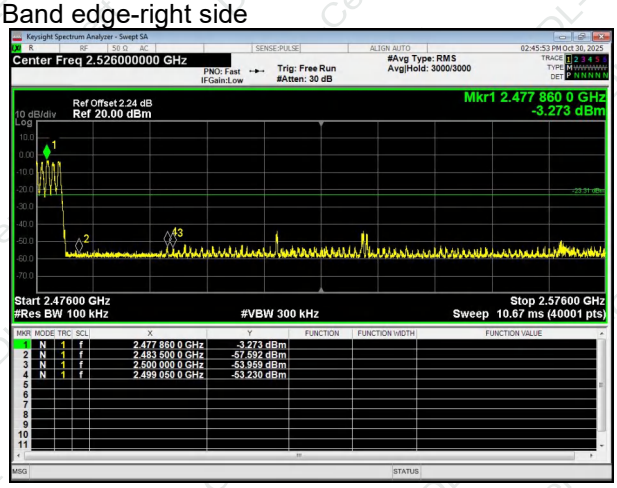


GFSK No-hopping Band edge-right side

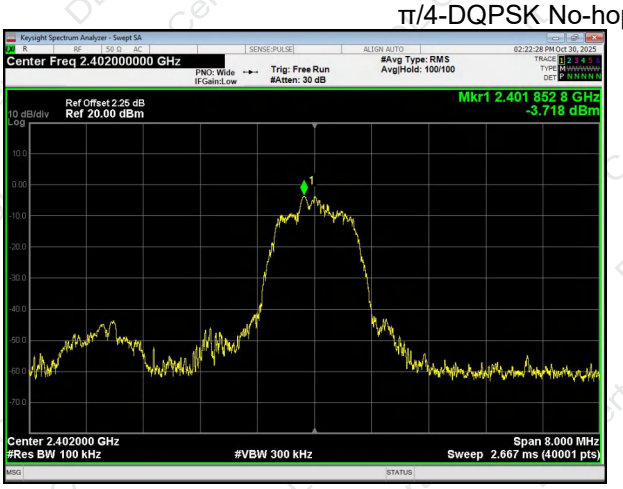


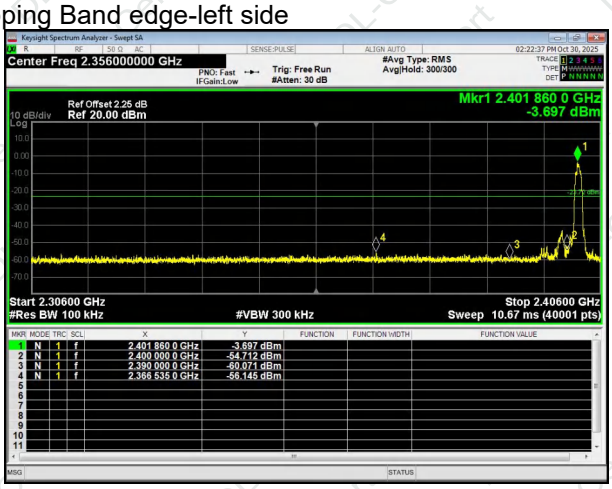


GFSK Hopping Band edge-right side

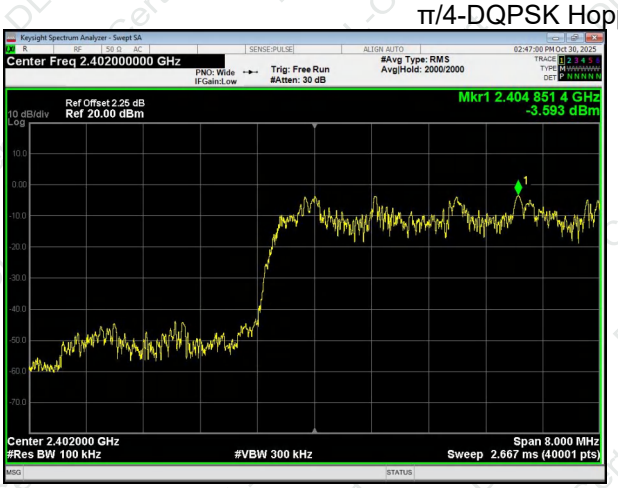


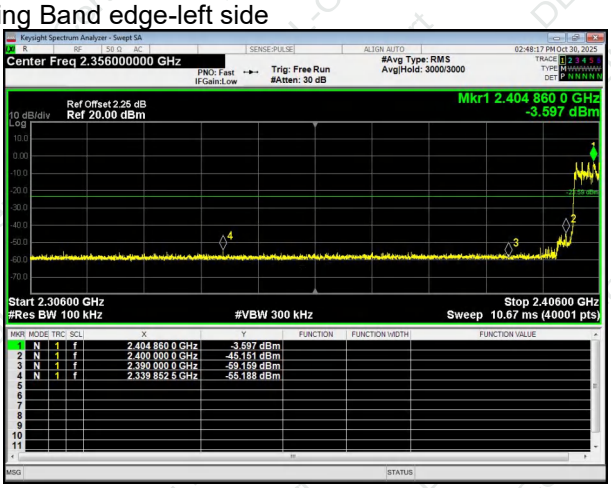
π/4-DQPSK No-hopping Band edge-left side



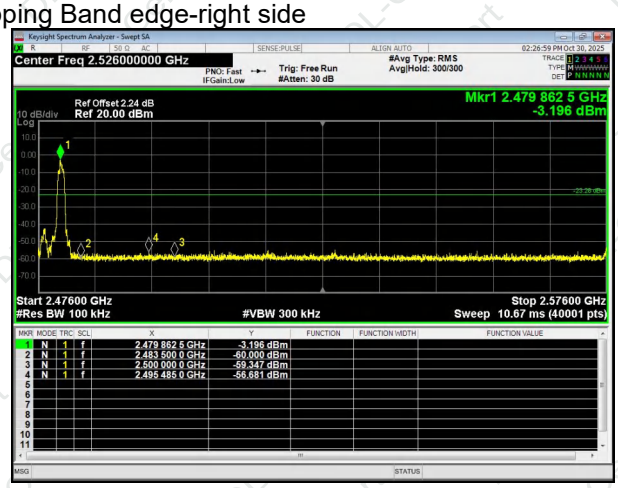


π/4-DQPSK Hopping Band edge-left side

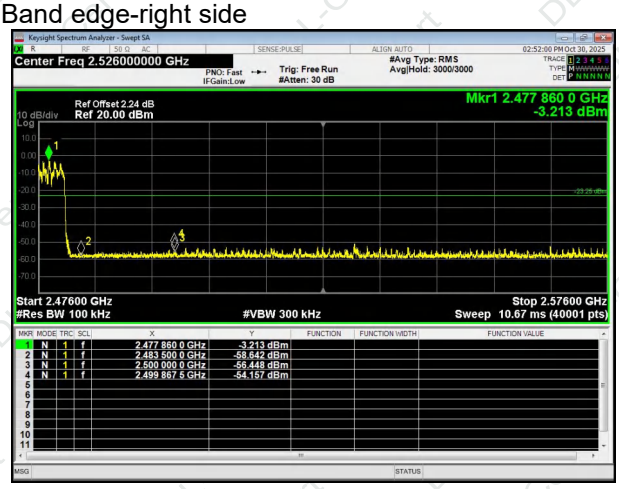




π/4-DQPSK No-hopping Band edge-right side



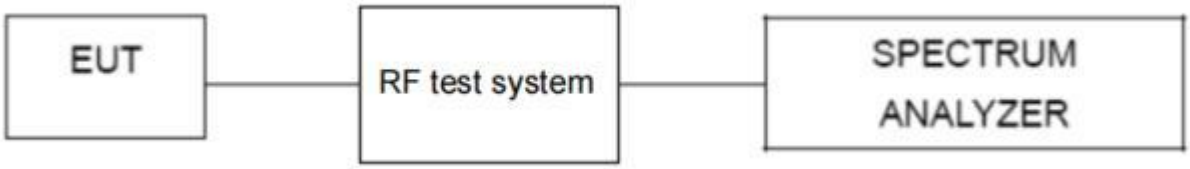
π/4-DQPSK Hopping Band edge-right side



7. 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020

7.1 Test Setup



7.2 Limit

N/A

7.3 Test procedure

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

7.4 DEVIATION FROM STANDARD

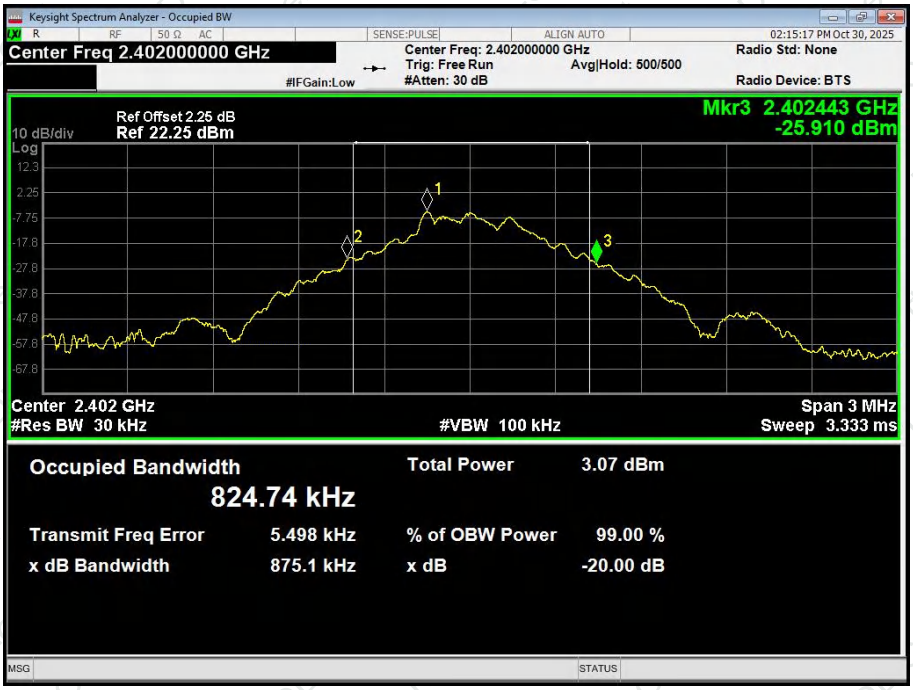
No deviation.

7.5 Test Result

Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.875	Pass
	Middle	0.876	
	Highest	0.876	
π/4-DQPSK	Lowest	1.255	Pass
	Middle	1.252	
	Highest	1.249	

Test plots

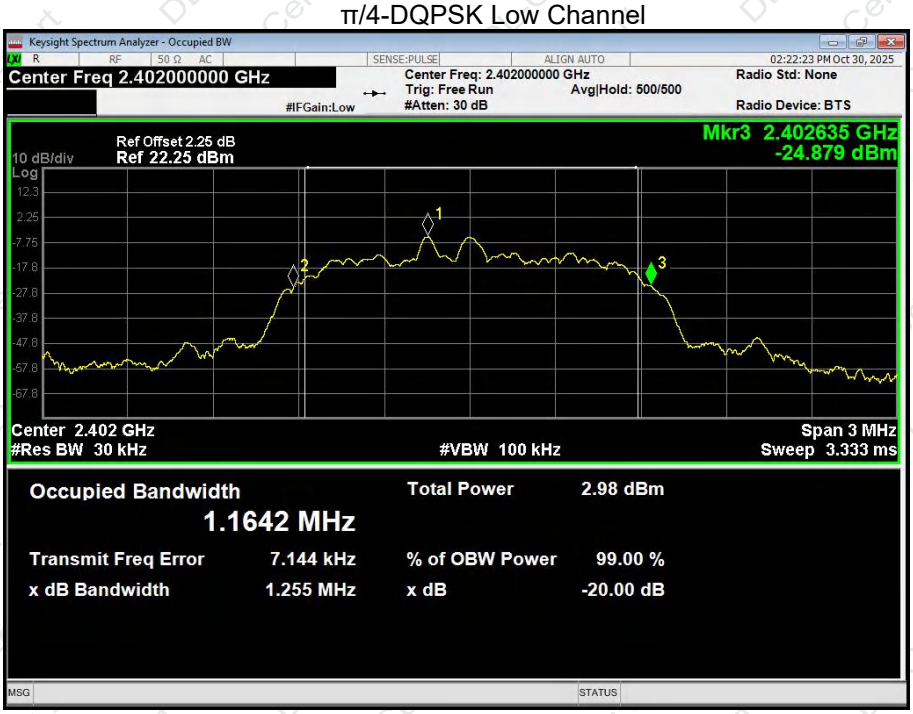
GFSK Low Channel



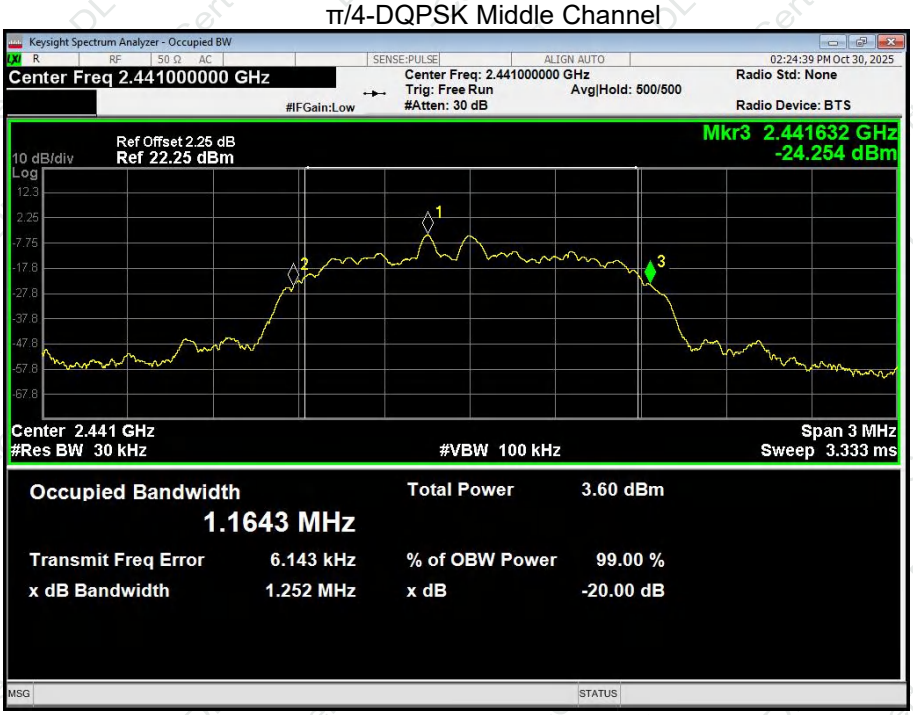
GFSK Middle Channel

GFSK High Channel

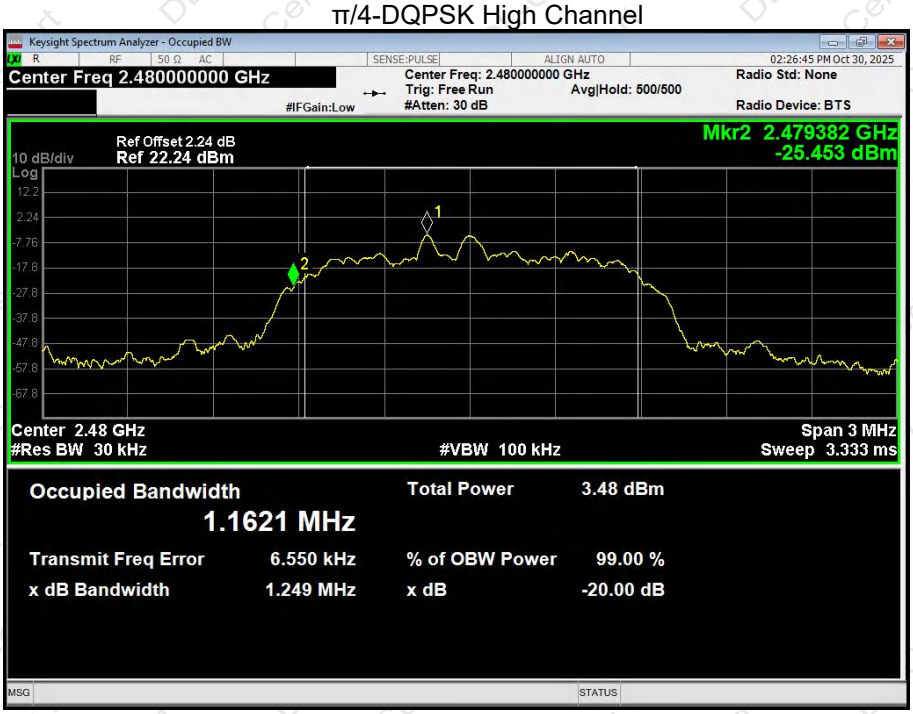
π/4-DQPSK Low Channel



π/4-DQPSK Middle Channel



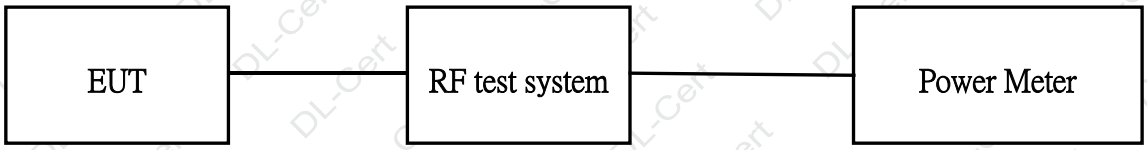
π/4-DQPSK High Channel



8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2020
Limit:	GFSK:30 dBm π /4-DQPSK dBm

8.1 Block Diagram Of Test Setup



8.2 Limit

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.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

8.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the Power Meter

2. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

8.4 DEVIATION FROM STANDARD

No deviation.

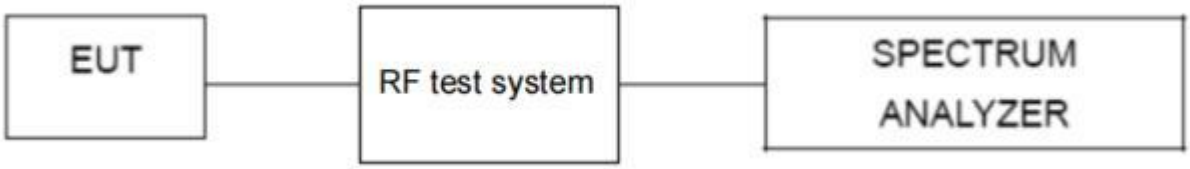
8.5 Test Result

Mode	Test channel	Peak Output Power (dBm)	FCC Limit (dBm)	Result
GFSK	Lowest	-3.731	30.00	Pass
	Middle	-3.183		
	Highest	-3.268		
π/4-DQPSK	Lowest	-2.793	21.00	Pass
	Middle	-2.195		
	Highest	-2.329		

9. Hopping Channel Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=30KHz, VBW=100KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth π /4-DQPSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

9.1 Test Setup



9.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 3.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 Test Result

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1.002	0.875	PASS
GFSK	Middle	0.987	0.876	PASS
GFSK	High	1.008	0.876	PASS
π/4-DQPSK	Low	0.987	0.837	PASS
π/4-DQPSK	Middle	1.002	0.835	PASS
π/4-DQPSK	High	0.993	0.833	PASS

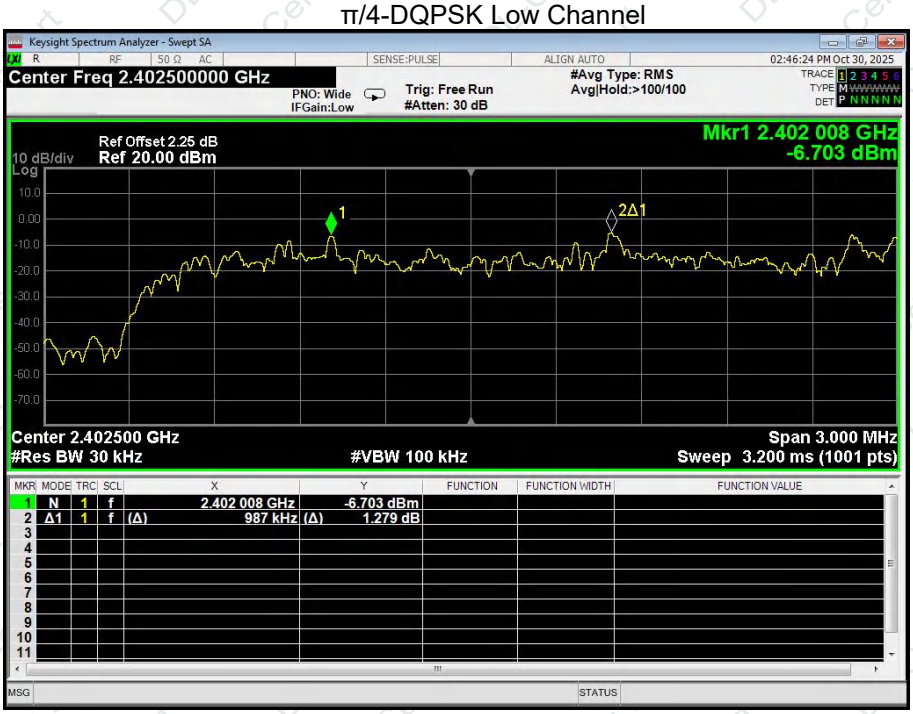
Test plots

GFSK Low Channel

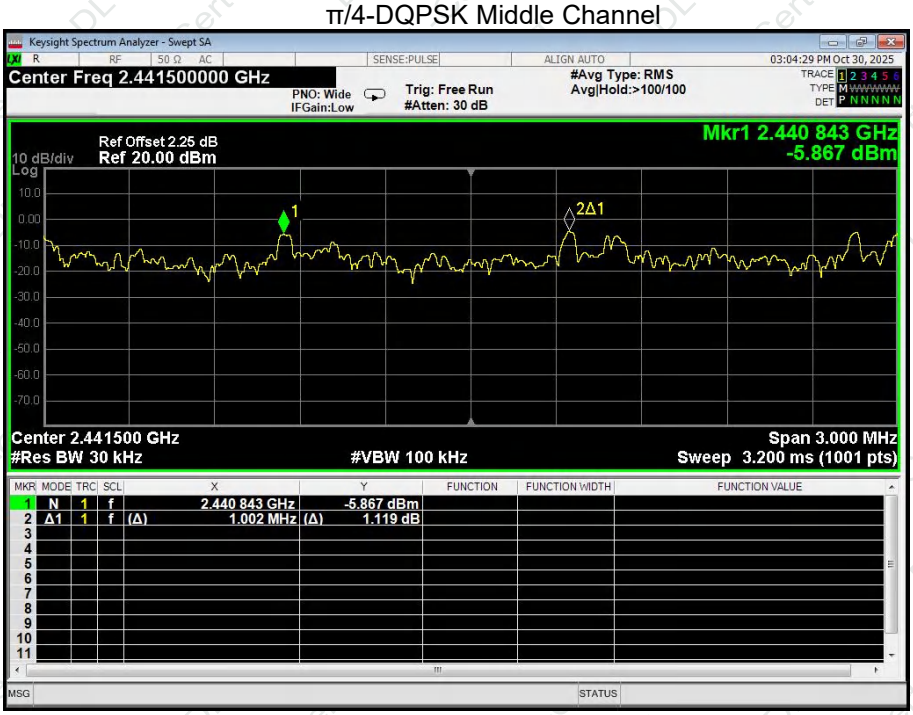
GFSK Middle Channel

GFSK High Channel

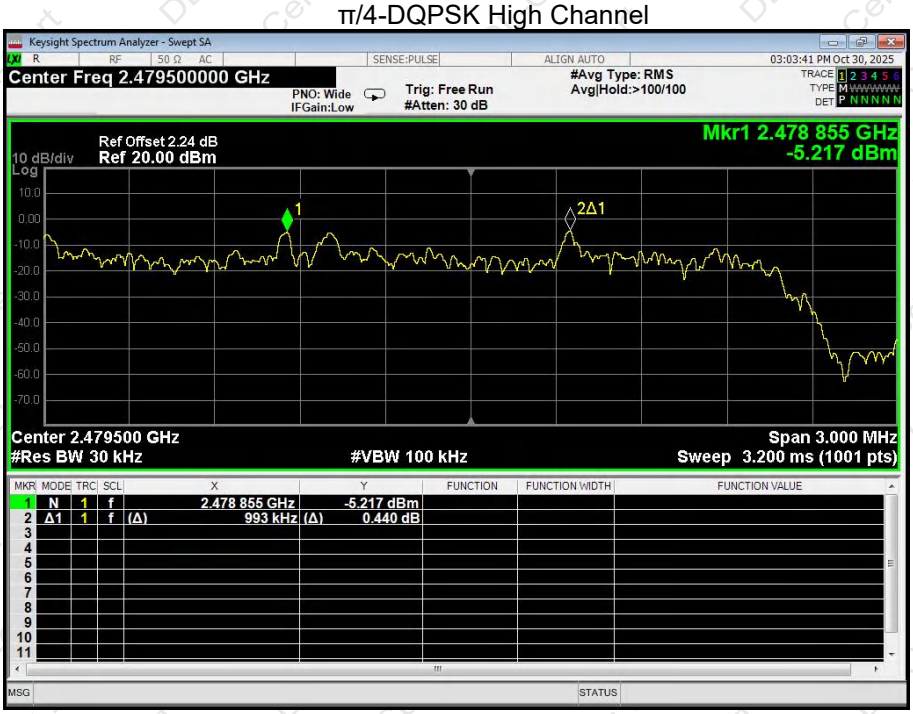
π/4-DQPSK Low Channel



π/4-DQPSK Middle Channel



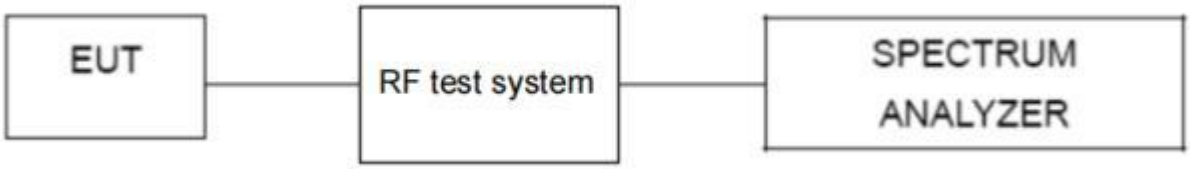
π/4-DQPSK High Channel



10.NUMBER OF HOPPING FREQUENCY

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels

10.1 Test Setup



10.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

10.3 DEVIATION FROM STANDARD

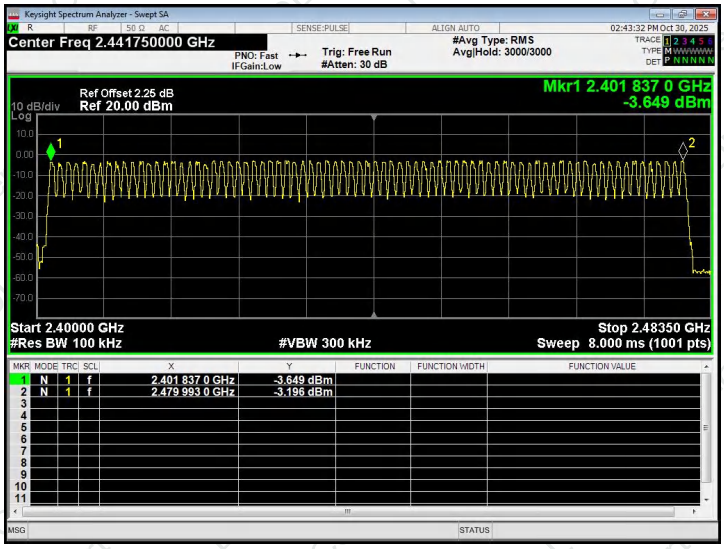
No deviation.

10.4 Test Result

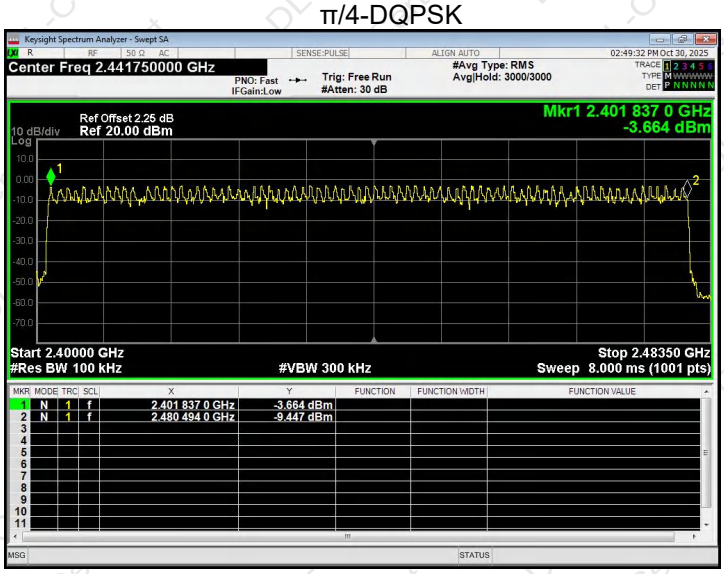
Modulation	Packet	Hopping Number	Limit	Result
GFSK	1-DH1	79	≥75	Pass
π/4-DQPSK	2-DH1	79	≥15	Pass

Test Plots:

79 Channels in total
GFSK



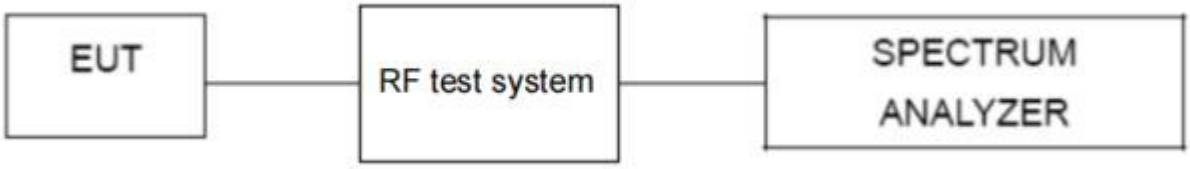
π/4-DQPSK



11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2020
Receiver setup:	RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second

11.1 Test Setup



11.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0Hz;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

11.3 DEVIATION FROM STANDARD

No deviation.

11.4 Test Result

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.384	122.88	31600	400	Pass
1-DH3	2441	1.639	262.24	31600	400	Pass
1-DH5	2441	2.888	308.053	31600	400	Pass
2-DH1	2441	0.393	125.76	31600	400	Pass
2-DH3	2441	1.644	263.04	31600	400	Pass
2-DH5	2441	2.893	308.587	31600	400	Pass

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Test channel: CH 2441MHz

Total Dwell time:

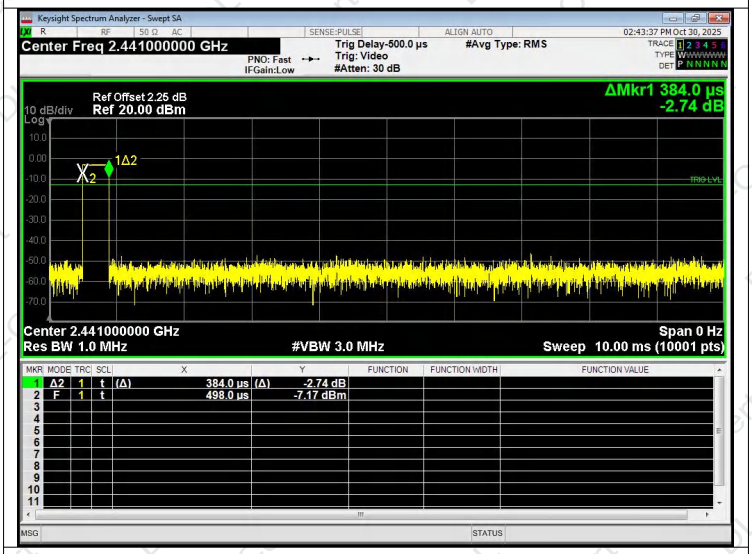
DH1/2DH1/3DH1=testing time(ms)*(1600/ (2*79))*31.6

DH3/2DH3/3DH3=testing time(ms)*(1600/ (4*79))*31.6

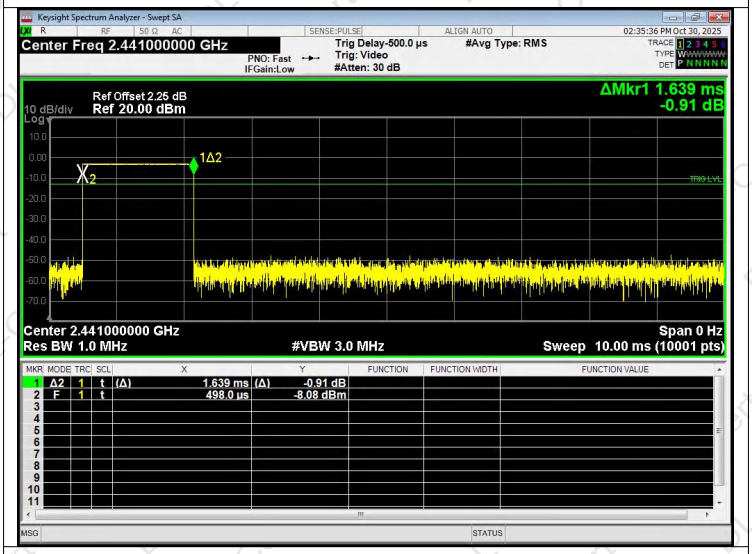
DH5/2DH5/3DH5=testing time(ms)*(1600/ (6*79))*31.6

Test Graphs

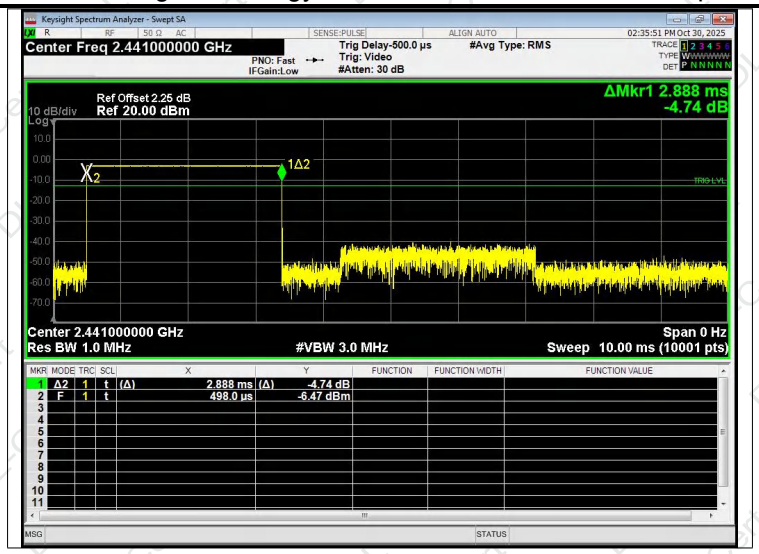
Dwell NVNT 1-DH1 2441MHz



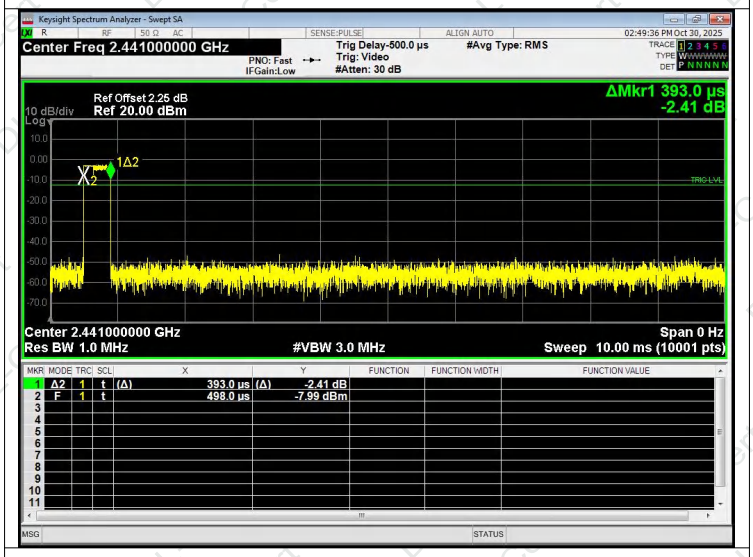
Dwell NVNT 1-DH3 2441MHz



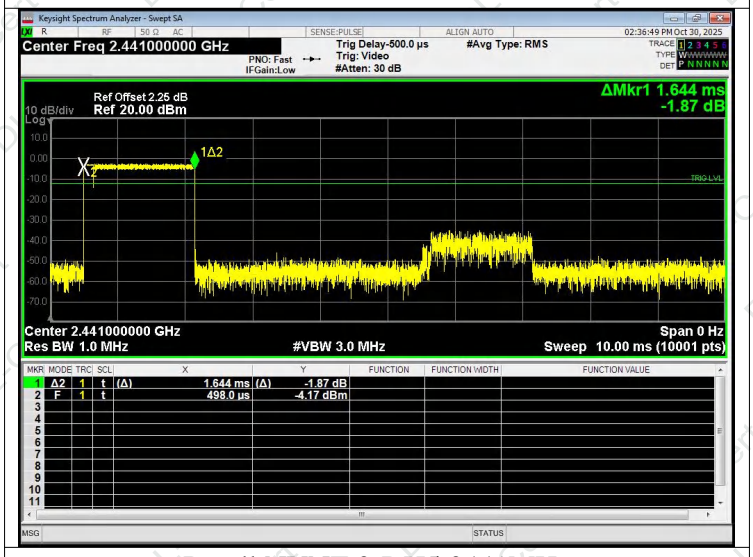
Dwell NVNT 1-DH5 2441MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
Trig Delay-500.0 µs
Trig: Video
#Atten: 30 dB
#Avg Type: RMS
02:35:51 PM Oct 30, 2025
Ref Offset 2.25 dB
10 dB/div
Ref 20.00 dBm
ΔMkr1 2.888 ms
-4.74 dB
1Δ2
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.00 ms (10001 pts)
1 Δ2 1 t (Δ) 2.888 ms (Δ) -4.74 dB
2 F 1 t 498.0 µs -6.47 dBm

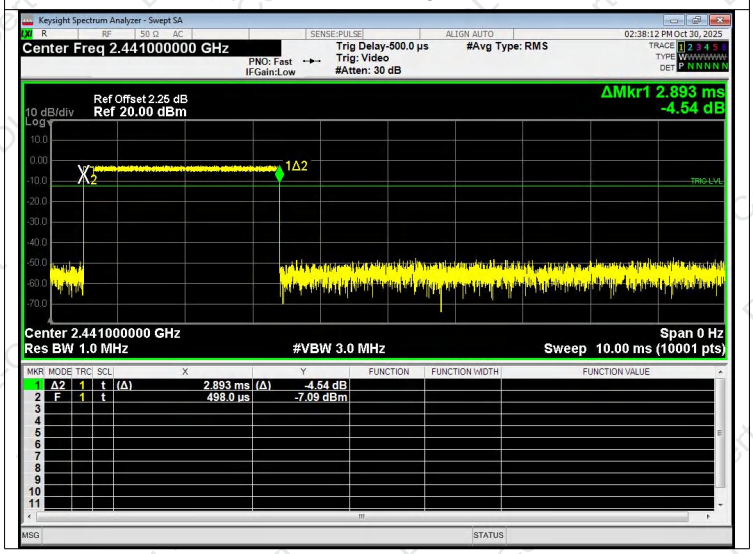
Dwell NVNT 2-DH1 2441MHz



Dwell NVNT 2-DH3 2441MHz



Dwell NVNT 2-DH5 2441MHz



12. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is PCB Antenna, the best case gain of the antennas is -0.68dBi, reference to the appendix II for details	

13. Test Setup Photo

Reference to the appendix I for details.

14. EUT Constructional Details

Reference to the appendix II for details.

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