



FCC TEST REPORT

FCC ID:2A7G8-H3

Report Number..... ZKT-221108L8307E

Date of Test..... Nov. 01, 2022 to Nov. 11, 2022

Date of issue..... Nov. 11, 2022

Total number of pages..... 71

Test Result PASS

Testing Laboratory..... Shenzhen ZKT Technology Co., Ltd.

Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name Shenzhen Anqier Trading Technology Co., Ltd.

Address Yuxing zonghe Building, Yousong Community, Longhua District, Shenzhen

Manufacturer's name Dongguan Shengyuexing Technology Co., Ltd.

Address 101, No. 23, Xinweizi 1st Road, 4th Village, Tangxia Town, Dongguan City, Guangdong Province

Test specification:

Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... /

Non-standard test method N/A

Test Report Form No..... TRF-EL-112_V0**Test Report Form(s) Originator..... ZKT Testing****Master TRF Dated: 2021-04-22**

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... Bluetooth earbuds

Trademark N/A

Model/Type reference..... H3, H1, H5

Ratings..... DC 5V from Adapter input AC 120V/60Hz or DC 3.7V from Battery



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

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

Reviewer (name + signature).....: Joe Liu

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-221108L8307E	Rev.01	Initial issue of report	Nov. 11, 2022



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 99% OCB	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 ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

Designation Number: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power conducted	$\pm 0.16\text{dB}$
3	Spurious emissions conducted	$\pm 0.21\text{dB}$
4	All emissions radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Bluetooth earbuds
Model No.:	H3
Series Model:	H1, H5
Model Different.:	All the same except the model number and the colour
Sample ID	ZKT-221108L8307E-1
Sample(s) Status:	Engineer sample
Channel numbers:	79
Channel separation:	2402MHz~2480MHz
Modulation technology:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type:	Internal Antenna
Antenna gain:	2.73 dBi
Power supply:	DC 5V from Adapter input AC 120V/60Hz or DC 3.7V from Battery

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:

Shenzhen ZKT Technology Co., Ltd.

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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

DC Line

EUT

Radiated Emission

EUT

Conducted Spurious

EUT

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	Bluetooth earbuds	N/A	H3	N/A	EUT
E-2	Adapter	N/A	FYD-0502000US	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	RF Test Tool
Power level setup	<7dBm



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 15, 2022	Oct. 16, 2023
2	Spectrum Analyzer (1GHz-40GHz)	R&S	FSQ	100363	Oct. 15, 2022	Oct. 16, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Oct. 15, 2022	Oct. 16, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	Oct. 15, 2022	Oct. 16, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	Oct. 15, 2022	Oct. 16, 2023
6	Loop Antenna	TESEQ	HLA6121	58357	Oct. 15, 2022	Oct. 16, 2023
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	Oct. 15, 2022	Oct. 16, 2023
8	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 15, 2022	Oct. 16, 2023
9	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Oct. 15, 2022	Oct. 16, 2023
10	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Oct. 15, 2022	Oct. 16, 2023
11	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Oct. 15, 2022	Oct. 16, 2023
12	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 15, 2022	Oct. 16, 2023
13	Signal Generator	Agilent	N5182A	N/A	Oct. 15, 2022	Oct. 16, 2023
14	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Oct. 15, 2022	Oct. 16, 2023
15	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 15, 2022	Oct. 16, 2023
16	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
17	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	\	\
18	RF Software	MW	MTS8310	V2.0.0.0	\	\
19	Turntable	MF	MF-7802BS	N/A	\	\
20	Antenna tower	MF	MF-7802BS	N/A	\	\



Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 15, 2022	Oct. 16, 2023
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct. 15, 2022	Oct. 16, 2023
3	Test Cable	N/A	C01	N/A	Oct. 15, 2022	Oct. 16, 2023
4	Test Cable	N/A	C02	N/A	Oct. 15, 2022	Oct. 16, 2023
5	EMI Receiver	R&S	ESCI3	101393	Oct. 15, 2022	Oct. 16, 2023
6	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	\	\



4. EMC EMISSION TEST

4.1 Conducted emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
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.

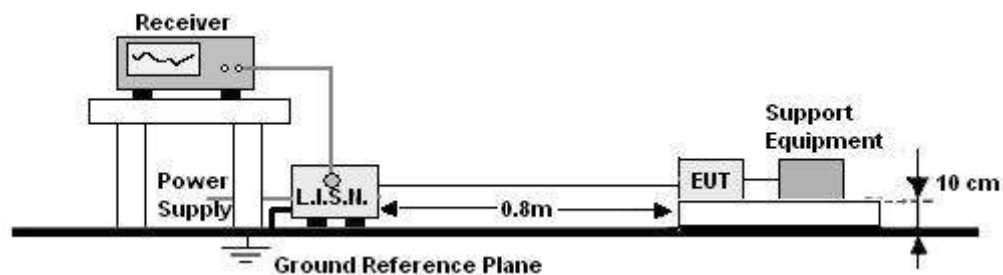
4.1.2 TEST PROCEDURE

- The EUT was placed 0.1 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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





4.1.5 EUT OPERATING CONDITIONS

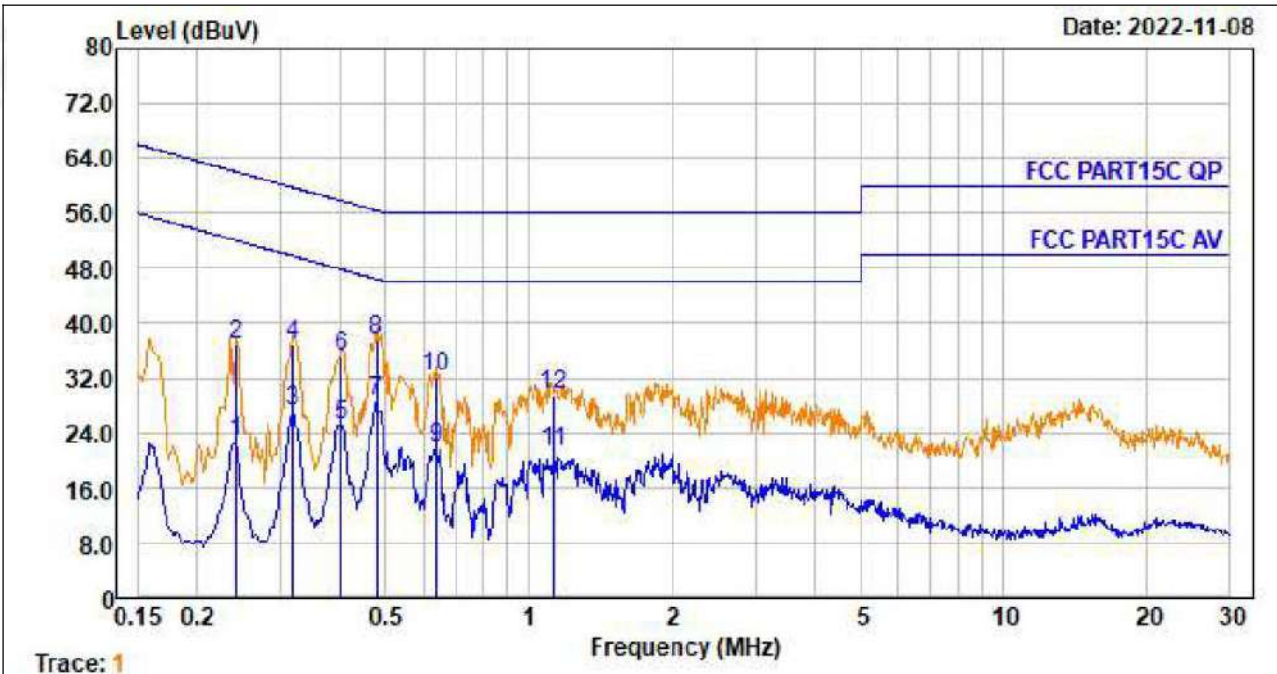
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



4.1.6 Test Result

Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



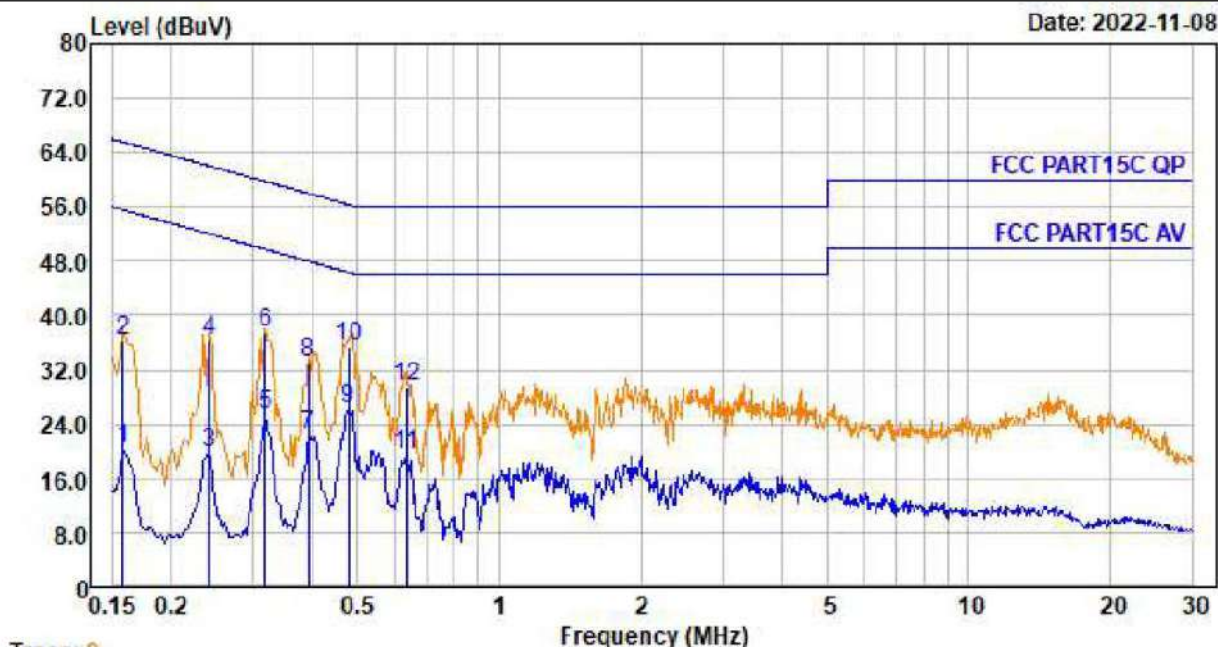
No.	Freq MHz	Cable Loss dB	LISN Factor dB/m	Receiver Reading dBuV	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	0.242	0.01	9.55	13.14	22.70	52.04	-29.34	Average
2.	0.242	0.01	9.55	27.48	37.04	62.04	-25.00	QP
3.	0.318	0.01	9.56	17.71	27.28	49.75	-22.47	Average
4.	0.318	0.01	9.56	27.38	36.95	59.75	-22.80	QP
5.	0.402	0.01	9.57	15.59	25.17	47.81	-22.64	Average
6.	0.402	0.01	9.57	25.57	35.15	57.81	-22.66	QP
7.	0.479	0.01	9.57	19.06	28.64	46.36	-17.72	Average
8.	0.479	0.01	9.57	27.78	37.36	56.36	-19.00	QP
9.	0.637	0.02	9.58	12.27	21.87	46.00	-24.13	Average
10.	0.637	0.02	9.58	22.51	32.11	56.00	-23.89	QP
11.	1.129	0.02	9.58	11.67	21.27	46.00	-24.73	Average
12.	1.129	0.02	9.58	19.83	29.43	56.00	-26.57	QP

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. Measurement Level = Reading level + Correct Factor



Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Freq MHz	Cable Loss dB	LISN Factor dB/m	Receiver Reading dBuV	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	0.158	0.00	9.53	10.72	20.25	55.56	-35.31	Average
2.	0.158	0.00	9.53	26.92	36.45	65.56	-29.11	QP
3.	0.242	0.01	9.55	10.28	19.84	52.04	-32.20	Average
4.	0.242	0.01	9.55	26.64	36.20	62.04	-25.84	QP
5.	0.318	0.01	9.56	15.71	25.28	49.75	-24.47	Average
6.	0.318	0.01	9.56	27.83	37.40	59.75	-22.35	QP
7.	0.393	0.01	9.57	12.75	22.33	47.99	-25.66	Average
8.	0.393	0.01	9.57	23.46	33.04	57.99	-24.95	QP
9.	0.479	0.01	9.58	16.58	26.17	46.36	-20.19	Average
10.	0.479	0.01	9.58	25.75	35.34	56.36	-21.02	QP
11.	0.634	0.02	9.58	9.89	19.49	46.00	-26.51	Average
12.	0.634	0.02	9.58	19.82	29.42	56.00	-26.58	QP

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. Measurement Level = Reading level + Correct Factor



4.2 Radiated emissions

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	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 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.



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

Above 1GHz test procedure as below:

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

Note:

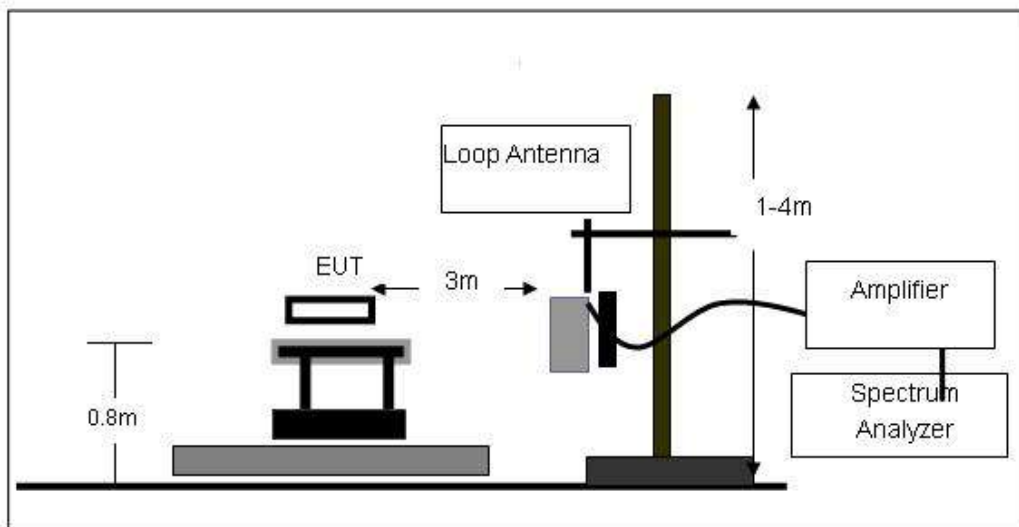
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

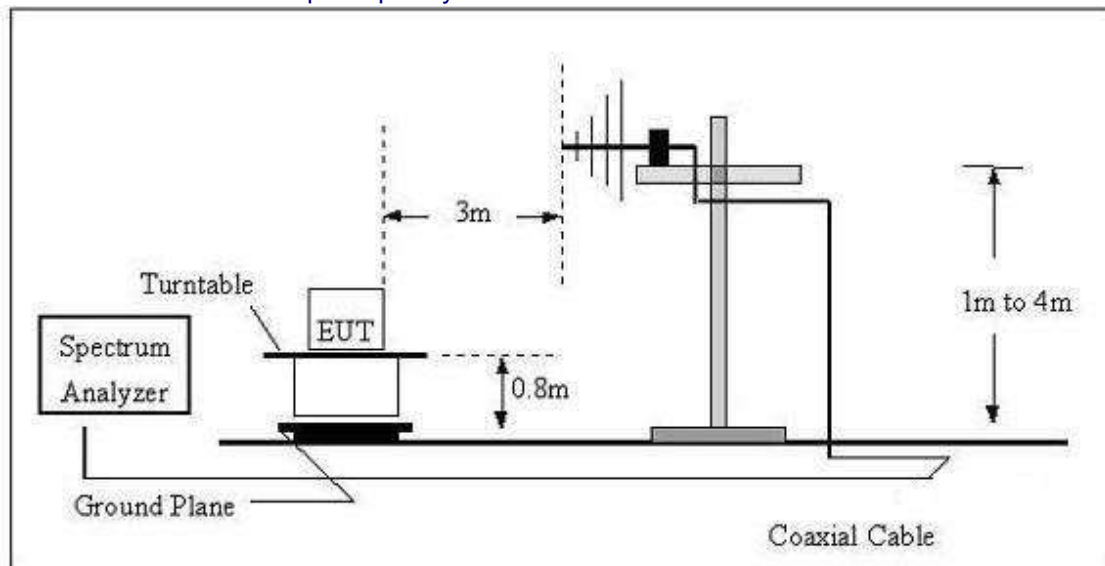
4.2.4 TEST SETUP

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

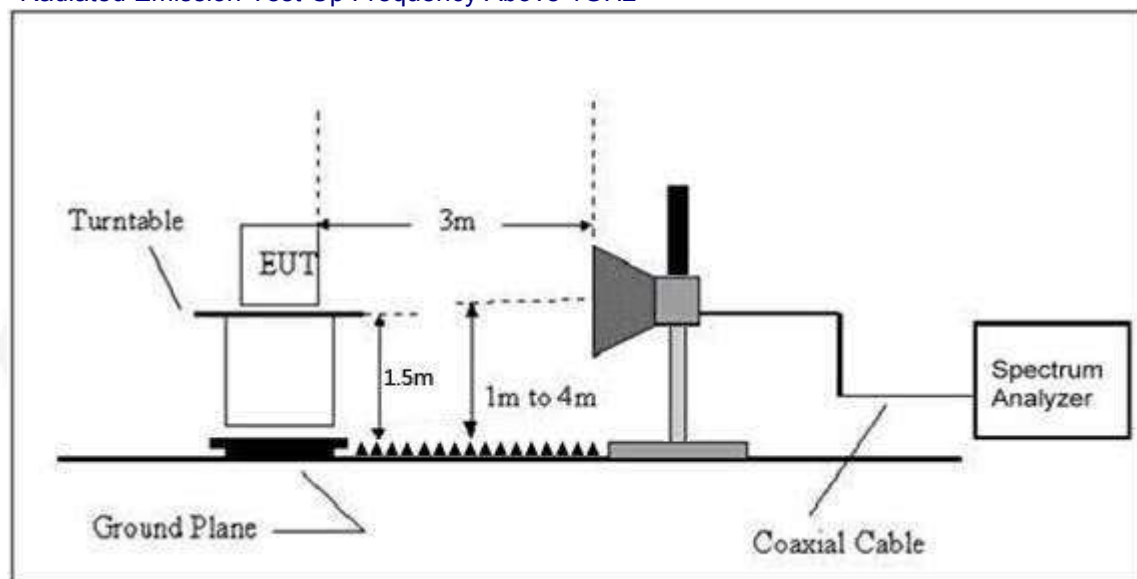




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.2.6 TEST RESULTS

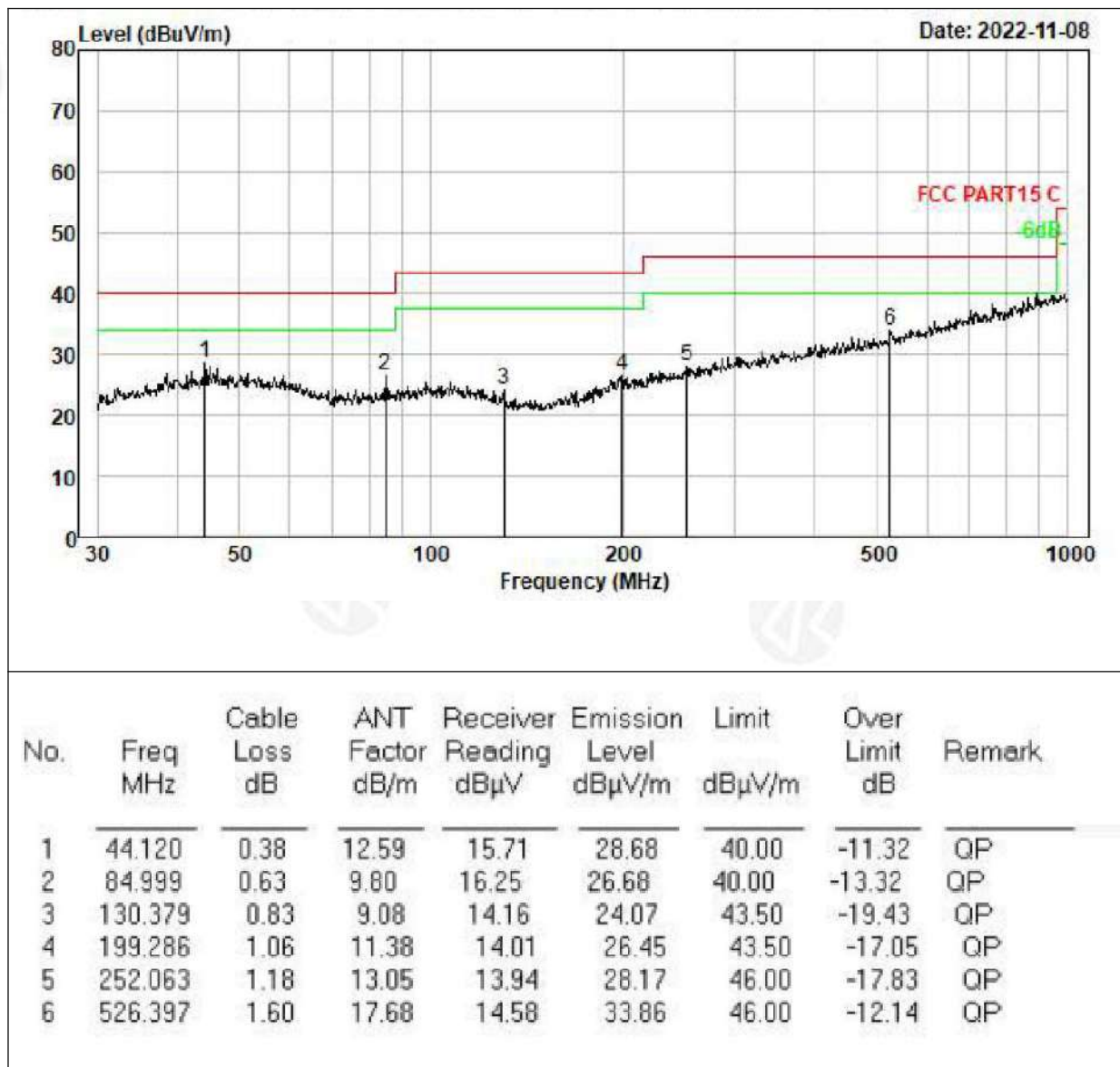
Between 9KHz – 30MHz

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.



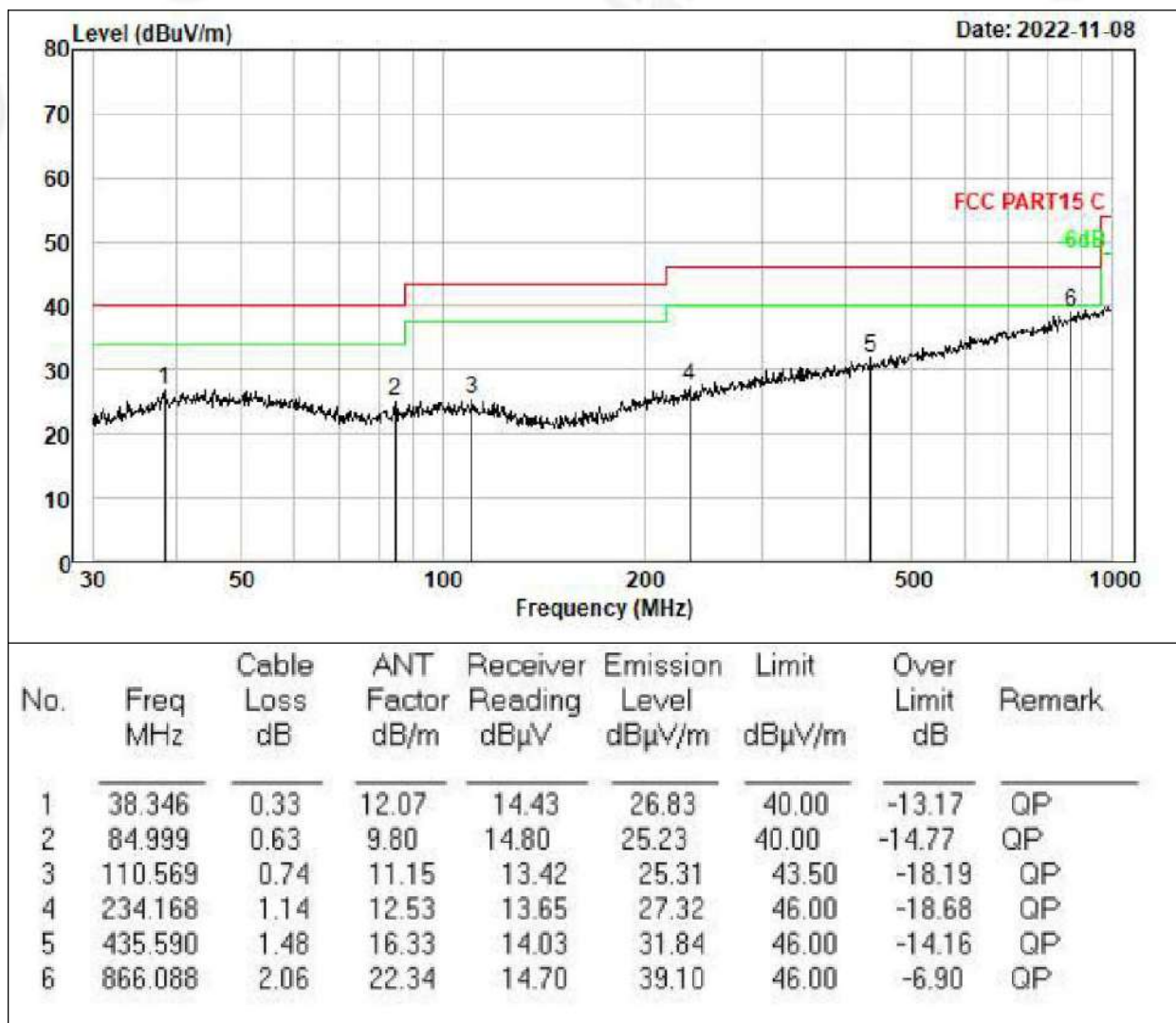
Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		





Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		

**Remarks:**

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data shows only the worst case GFSK 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	50.72	30.55	5.77	24.66	50.60	74.00	-23.40	Pk
V	4804.00	40.72	30.55	5.77	24.66	40.60	54.00	-13.40	AV
V	7206.00	48.49	30.33	6.32	24.55	49.03	74.00	-24.97	Pk
V	7206.00	40.70	30.33	6.32	24.55	41.24	54.00	-12.76	AV
V	9608.00	48.37	30.85	7.45	24.69	49.66	74.00	-24.34	Pk
V	9608.00	41.22	30.85	7.45	24.69	42.51	54.00	-11.49	AV
V	12010.00	48.15	31.02	8.99	25.57	51.69	74.00	-22.31	Pk
V	12010.00	39.31	31.02	8.99	25.57	42.85	54.00	-11.15	AV
H	4804.00	51.22	30.55	5.77	24.66	51.10	74.00	-22.90	Pk
H	4804.00	41.05	30.55	5.77	24.66	40.93	54.00	-13.07	AV
H	7206.00	50.14	30.33	6.32	24.55	50.68	74.00	-23.32	Pk
H	7206.00	41.63	30.33	6.32	24.55	42.17	54.00	-11.83	AV
H	9608.00	49.42	30.85	7.45	24.69	50.71	74.00	-23.29	Pk
H	9608.00	40.80	30.85	7.45	24.69	42.09	54.00	-11.91	AV
H	12010.00	50.06	31.02	8.99	25.57	53.60	74.00	-20.40	Pk
H	12010.00	39.53	31.02	8.99	25.57	43.07	54.00	-10.93	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	51.01	30.55	5.77	24.66	50.89	74.00	-23.11	Pk
V	4882.00	40.38	30.55	5.77	24.66	40.26	54.00	-13.74	AV
V	7323.00	47.93	30.33	6.32	24.55	48.47	74.00	-25.53	Pk
V	7323.00	41.36	30.33	6.32	24.55	41.90	54.00	-12.10	AV
V	9764.00	48.93	30.85	7.45	24.69	50.22	74.00	-23.78	Pk
V	9764.00	41.14	30.85	7.45	24.69	42.43	54.00	-11.57	AV
V	12205.00	48.84	31.02	8.99	25.57	52.38	74.00	-21.62	Pk
V	12205.00	38.66	31.02	8.99	25.57	42.20	54.00	-11.80	AV
H	4882.00	50.31	30.55	5.77	24.66	50.19	74.00	-23.81	Pk
H	4882.00	40.98	30.55	5.77	24.66	40.86	54.00	-13.14	AV
H	7323.00	50.59	30.33	6.32	24.55	51.13	74.00	-22.87	Pk
H	7323.00	40.88	30.33	6.32	24.55	41.42	54.00	-12.58	AV
H	9764.00	49.85	30.85	7.45	24.69	51.14	74.00	-22.86	Pk
H	9764.00	40.98	30.85	7.45	24.69	42.27	54.00	-11.73	AV
H	12205.00	49.38	31.02	8.99	25.57	52.92	74.00	-21.08	Pk
H	12205.00	40.25	31.02	8.99	25.57	43.79	54.00	-10.21	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2480MHz									
V	4960.00	50.20	30.55	5.77	24.66	50.08	74.00	-23.92	Pk
V	4960.00	40.17	30.55	5.77	24.66	40.05	54.00	-13.95	AV
V	7440.00	47.84	30.33	6.32	24.55	48.38	74.00	-25.62	Pk
V	7440.00	41.69	30.33	6.32	24.55	42.23	54.00	-11.77	AV
V	9920.00	48.26	30.85	7.45	24.69	49.55	74.00	-24.45	Pk
V	9920.00	41.12	30.85	7.45	24.69	42.41	54.00	-11.59	AV
V	12400.00	48.66	31.02	8.99	25.57	52.20	74.00	-21.80	Pk
V	12400.00	38.53	31.02	8.99	25.57	42.07	54.00	-11.93	AV
H	4960.00	50.88	30.55	5.77	24.66	50.76	74.00	-23.24	Pk
H	4960.00	41.51	30.55	5.77	24.66	41.39	54.00	-12.61	AV
H	7440.00	50.00	30.33	6.32	24.55	50.54	74.00	-23.46	Pk
H	7440.00	41.63	30.33	6.32	24.55	42.17	54.00	-11.83	AV
H	9920.00	49.77	30.85	7.45	24.69	51.06	74.00	-22.94	Pk
H	9920.00	41.75	30.85	7.45	24.69	43.04	54.00	-10.96	AV
H	12400.00	49.74	31.02	8.99	25.57	53.28	74.00	-20.72	Pk
H	12400.00	40.22	31.02	8.99	25.57	43.76	54.00	-10.24	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.
4. The test data shows only the worst case GFSK mode



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: 2013				
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:

1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. 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

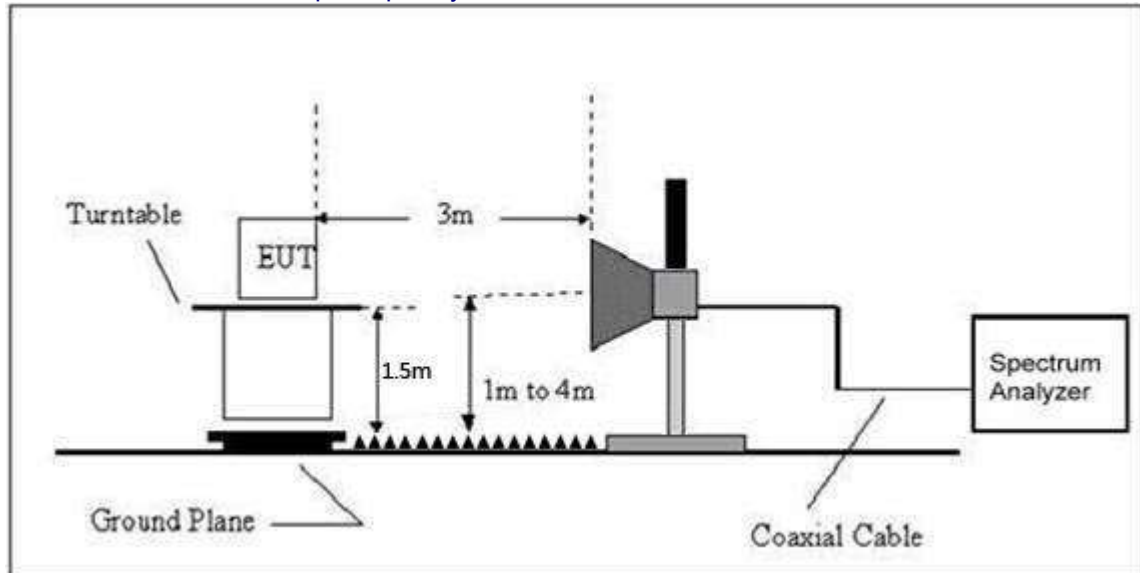


5.3 DEVIATION FROM TEST STANDARD

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 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Detec tor Type	Result
GFSK	Low Channel: 2402MHz									
	H	2390.00	53.92	30.22	4.85	23.98	52.53	74.00	PK	PASS
	H	2390.00	45.93	30.22	4.85	23.98	44.54	54.00	AV	PASS
	H	2400.00	55.32	30.22	4.85	23.98	53.93	74.00	PK	PASS
	H	2400.00	46.00	30.22	4.85	23.98	44.61	54.00	AV	PASS
	V	2390.00	53.50	30.22	4.85	23.98	52.11	74.00	PK	PASS
	V	2390.00	45.67	30.22	4.85	23.98	44.28	54.00	AV	PASS
	V	2400.00	55.25	30.22	4.85	23.98	53.86	74.00	PK	PASS
	V	2400.00	45.66	30.22	4.85	23.98	44.27	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.76	30.22	4.85	23.98	52.37	74.00	PK	PASS
	H	2483.50	45.00	30.22	4.85	23.98	43.61	54.00	AV	PASS
	H	2500.00	54.90	30.22	4.85	23.98	53.51	74.00	PK	PASS
	H	2500.00	45.75	30.22	4.85	23.98	44.36	54.00	AV	PASS
	V	2483.50	54.84	30.22	4.85	23.98	53.45	74.00	PK	PASS
	V	2483.50	46.17	30.22	4.85	23.98	44.78	54.00	AV	PASS
$\pi/4$ -DQPSK	Low Channel: 2402MHz									
	H	2390.00	54.06	30.22	4.85	23.98	52.67	74.00	PK	PASS
	H	2390.00	45.59	30.22	4.85	23.98	44.20	54.00	AV	PASS
	H	2400.00	55.54	30.22	4.85	23.98	54.15	74.00	PK	PASS
	H	2400.00	45.94	30.22	4.85	23.98	44.55	54.00	AV	PASS
	V	2390.00	54.09	30.22	4.85	23.98	52.70	74.00	PK	PASS
	V	2390.00	45.91	30.22	4.85	23.98	44.52	54.00	AV	PASS
	V	2400.00	55.58	30.22	4.85	23.98	54.19	74.00	PK	PASS
	V	2400.00	46.02	30.22	4.85	23.98	44.63	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.35	30.22	4.85	23.98	51.96	74.00	PK	PASS
	H	2483.50	45.01	30.22	4.85	23.98	43.62	54.00	AV	PASS
	H	2500.00	55.22	30.22	4.85	23.98	53.83	74.00	PK	PASS
	H	2500.00	45.77	30.22	4.85	23.98	44.38	54.00	AV	PASS
	V	2483.50	54.38	30.22	4.85	23.98	52.99	74.00	PK	PASS
	V	2483.50	45.81	30.22	4.85	23.98	44.42	54.00	AV	PASS
8-DPSK	Low Channel: 2402MHz									
	H	2390.00	54.33	30.22	4.85	23.98	52.94	74.00	PK	PASS
	H	2390.00	45.46	30.22	4.85	23.98	44.07	54.00	AV	PASS
	H	2400.00	55.40	30.22	4.85	23.98	54.01	74.00	PK	PASS
	H	2400.00	45.76	30.22	4.85	23.98	44.37	54.00	AV	PASS
	V	2390.00	53.62	30.22	4.85	23.98	52.23	74.00	PK	PASS
	V	2390.00	46.03	30.22	4.85	23.98	44.64	54.00	AV	PASS
	V	2400.00	55.77	30.22	4.85	23.98	54.38	74.00	PK	PASS
	V	2400.00	45.82	30.22	4.85	23.98	44.43	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.89	30.22	4.85	23.98	52.50	74.00	PK	PASS
	H	2483.50	44.93	30.22	4.85	23.98	43.54	54.00	AV	PASS
	H	2500.00	54.97	30.22	4.85	23.98	53.58	74.00	PK	PASS
	H	2500.00	45.85	30.22	4.85	23.98	44.46	54.00	AV	PASS
	V	2483.50	54.35	30.22	4.85	23.98	52.96	74.00	PK	PASS



	V	2483.50	46.04	30.22	4.85	23.98	44.65	54.00	AV	PASS
	V	2500.00	54.67	30.22	4.85	23.98	53.28	74.00	PK	PASS
	V	2500.00	45.49	30.22	4.85	23.98	44.10	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 D01 15.247 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.

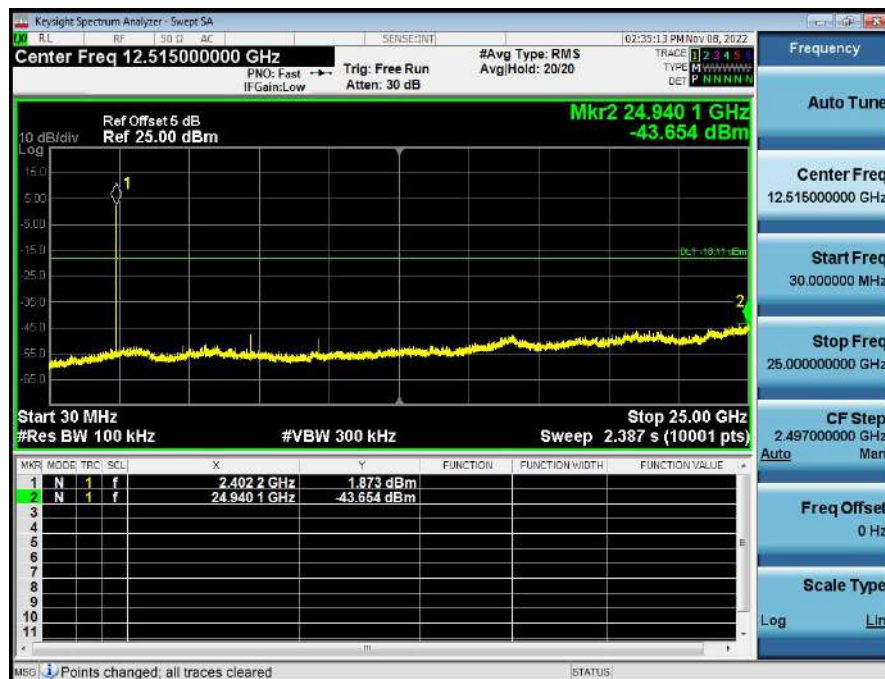
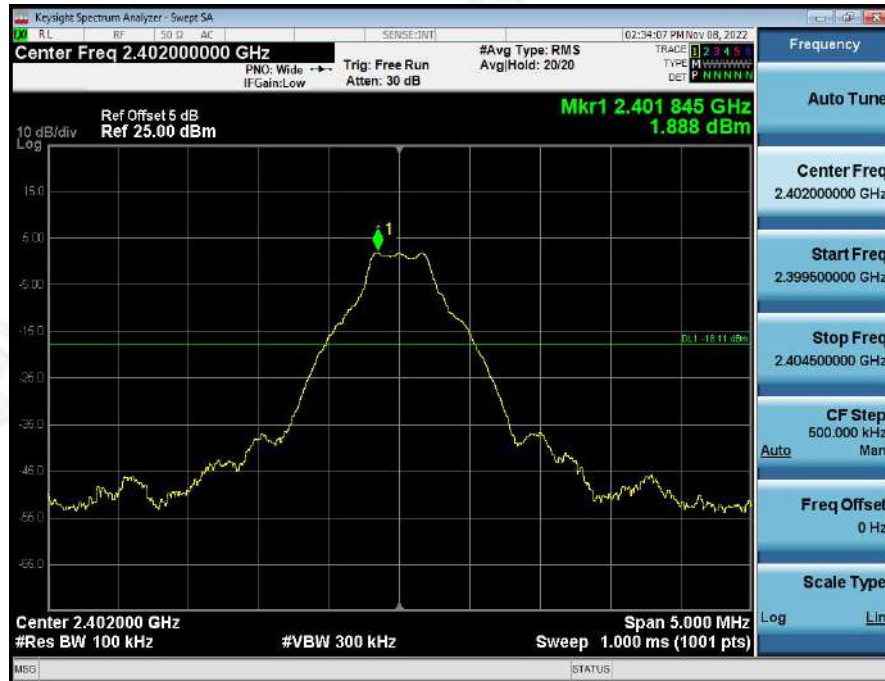


6.5 Test Result

GFSK mode:

Test channel:	Lowest channel
---------------	----------------

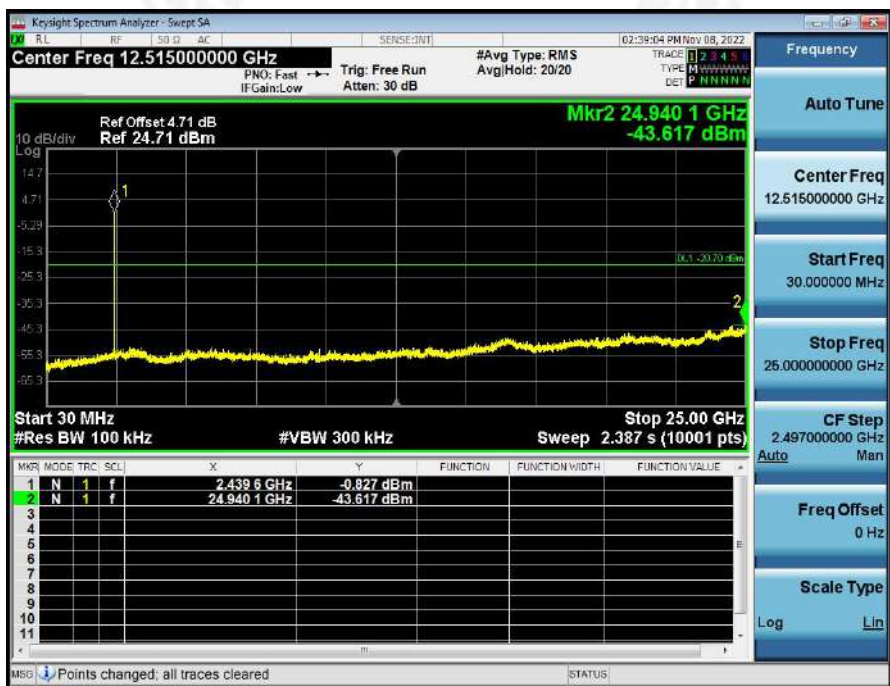
30MHz~25GHz





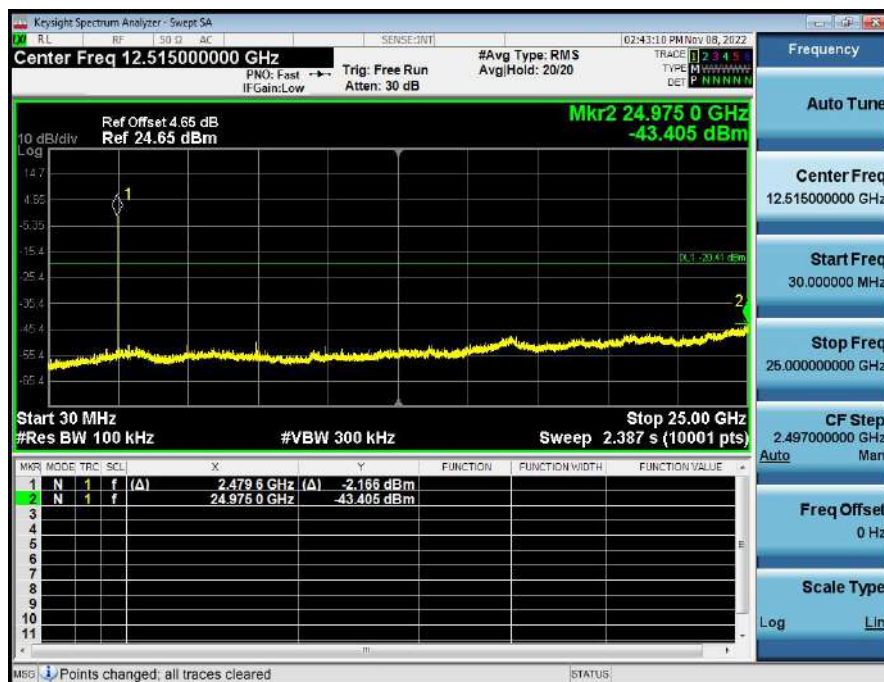
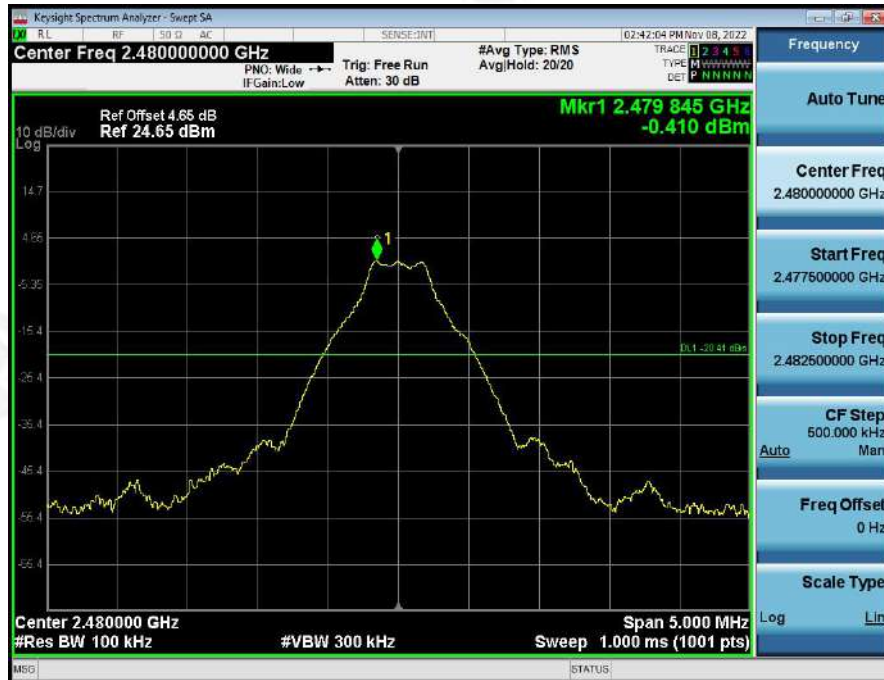
Test channel:	Middle channel
---------------	----------------

30MHz~25GHz





Test channel:	Highest channel
30MHz~25GHz	

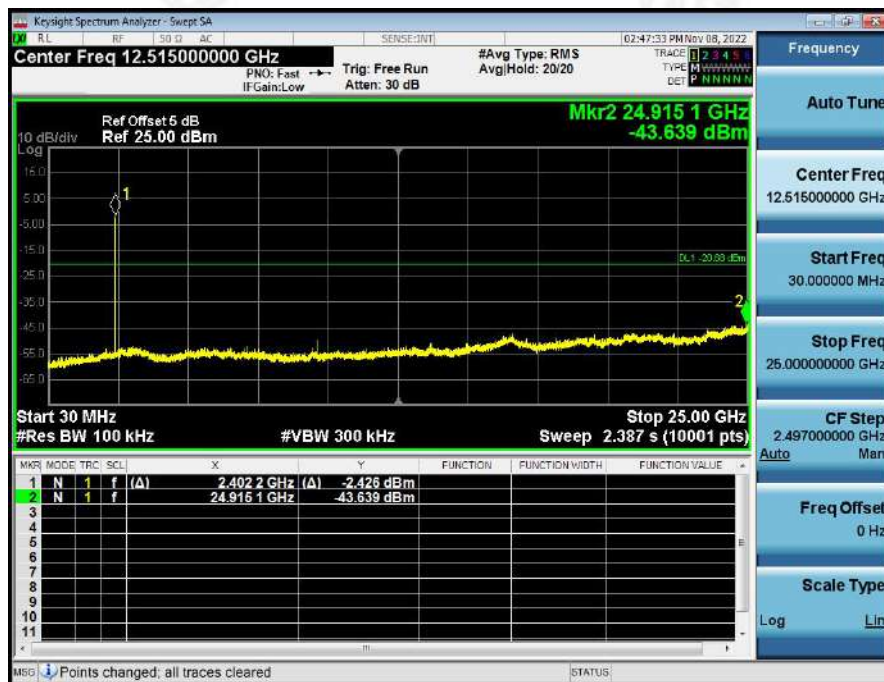
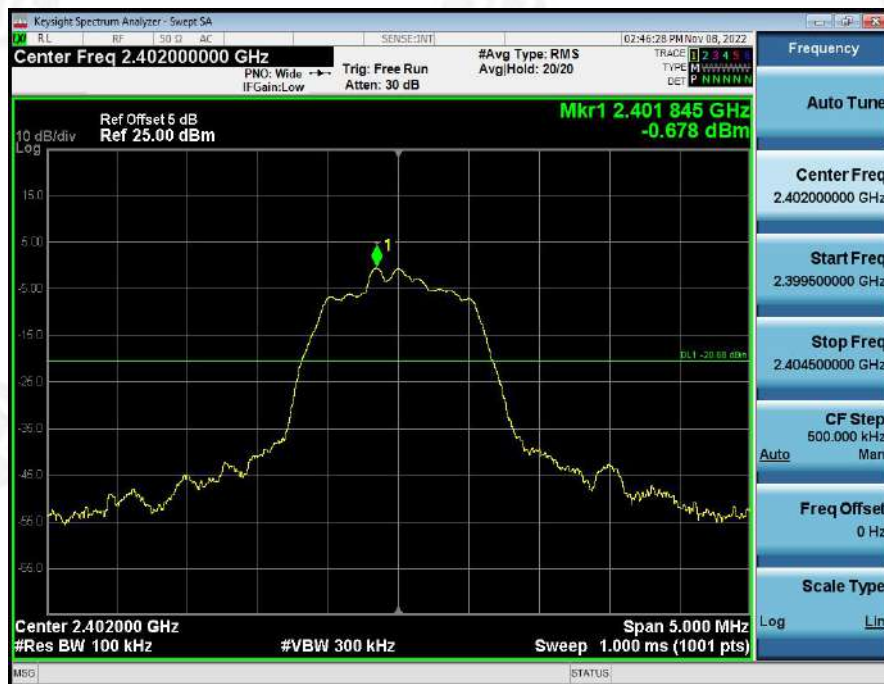




$\pi/4$ -DQPSK mode:

Test channel:	Lowest channel
---------------	----------------

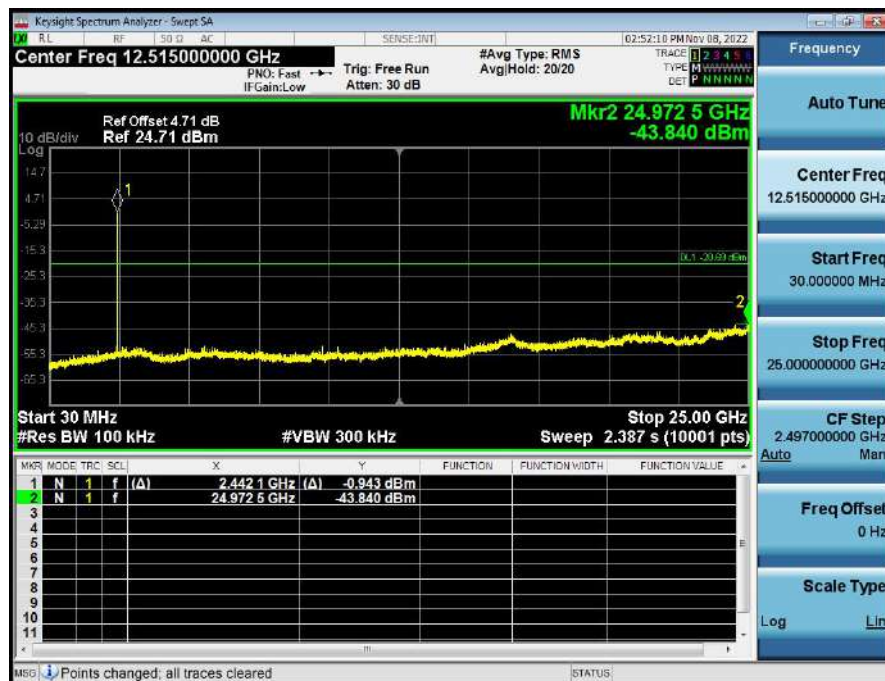
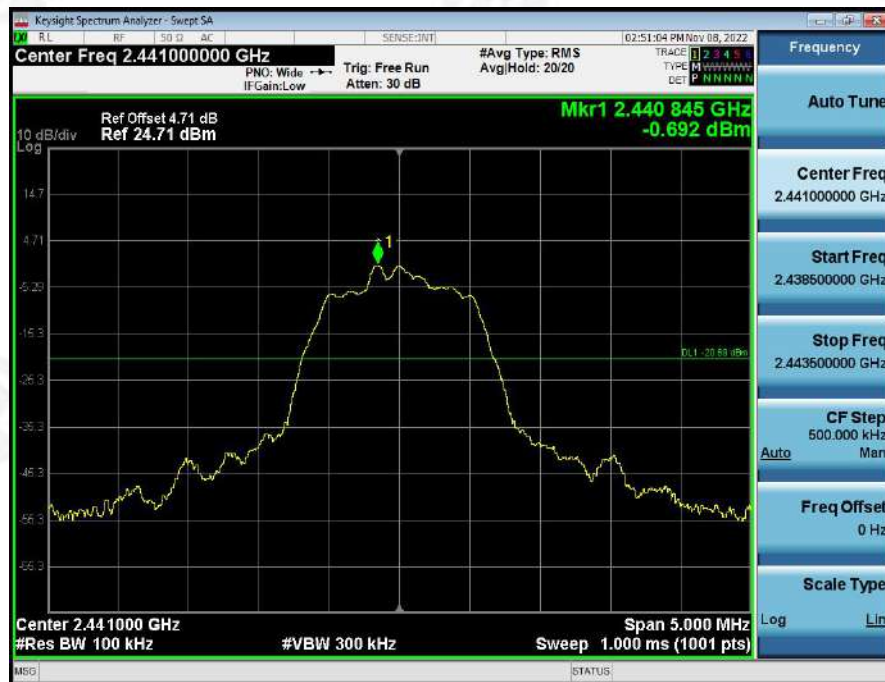
30MHz~25GHz





Test channel:	Middle channel
---------------	----------------

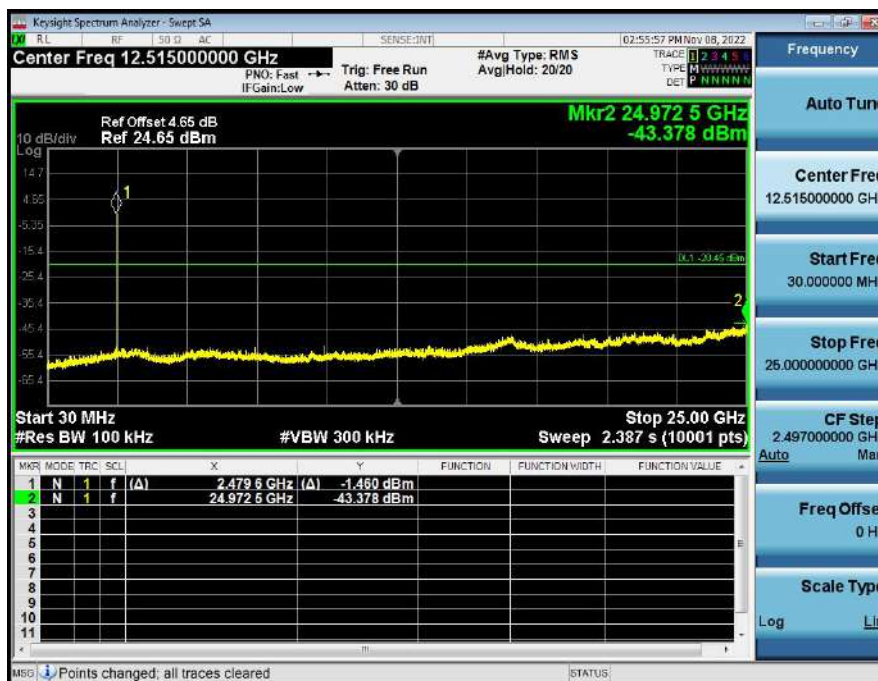
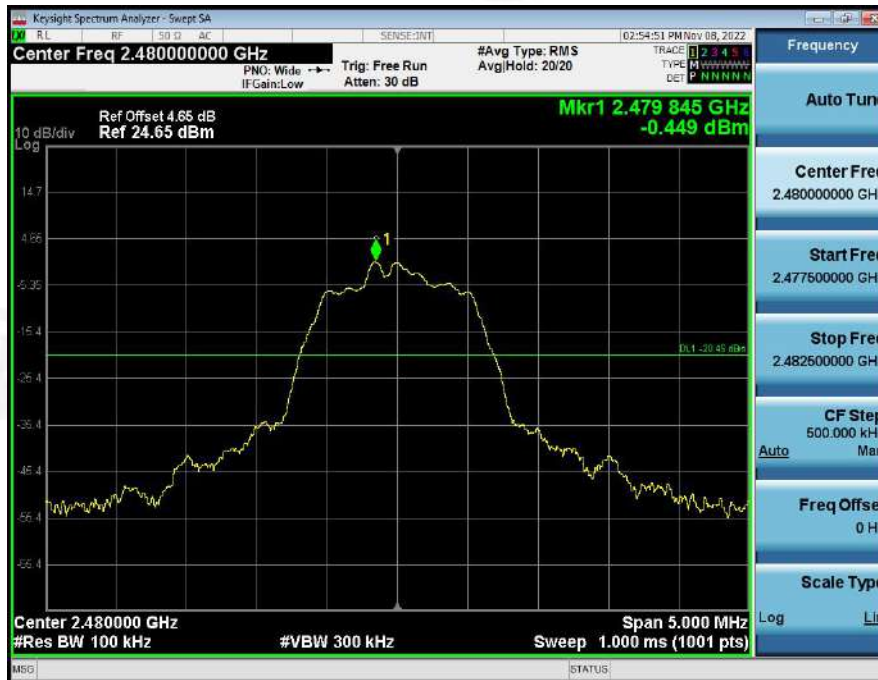
30MHz~25GHz





Test channel:	Highest channel
---------------	-----------------

30MHz~25GHz

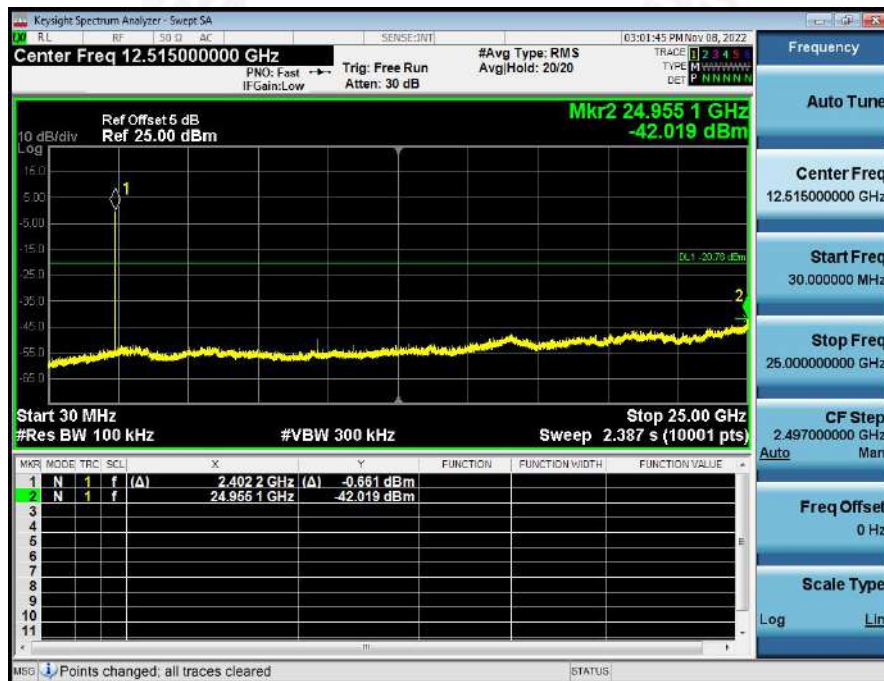
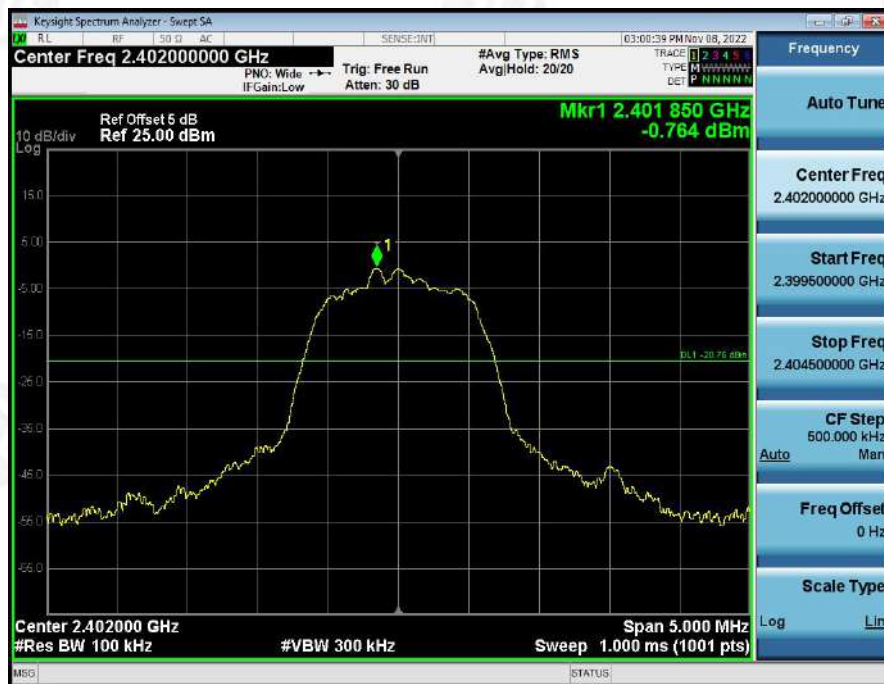




8-DPSK mode:

Test channel:	Lowest channel
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30MHz~25GHz

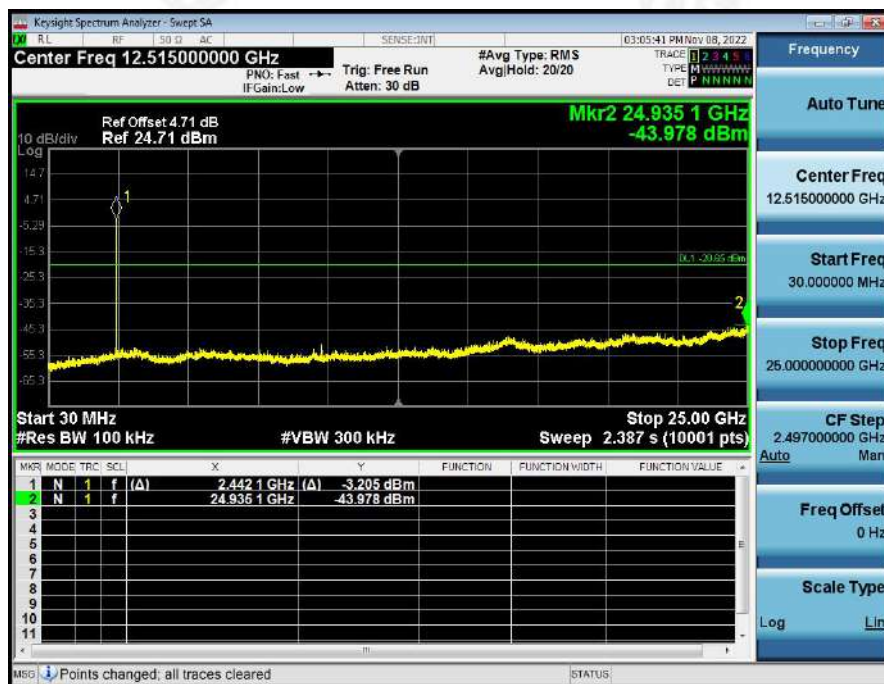
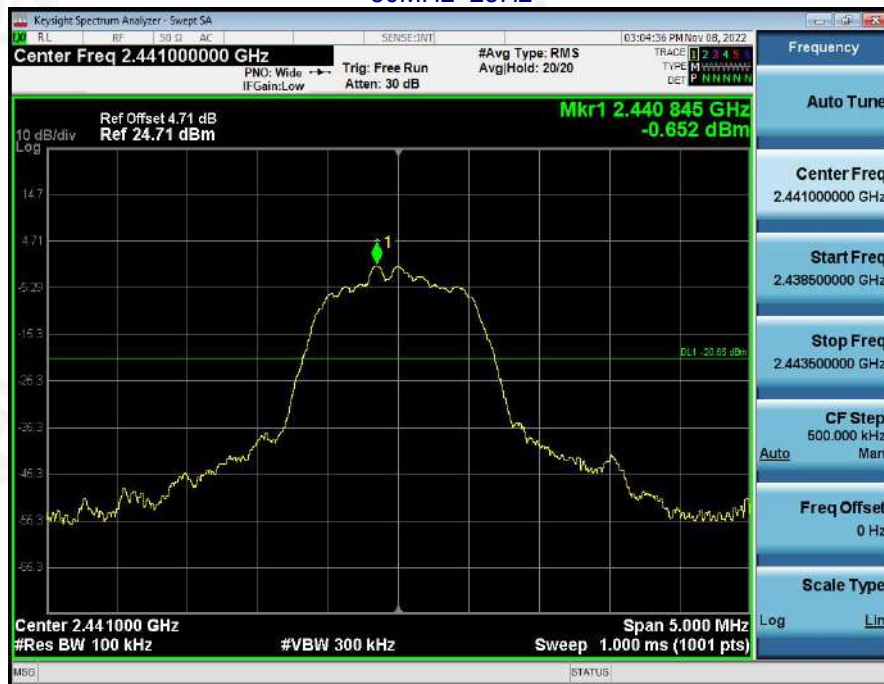




Test channel:

Middle channel

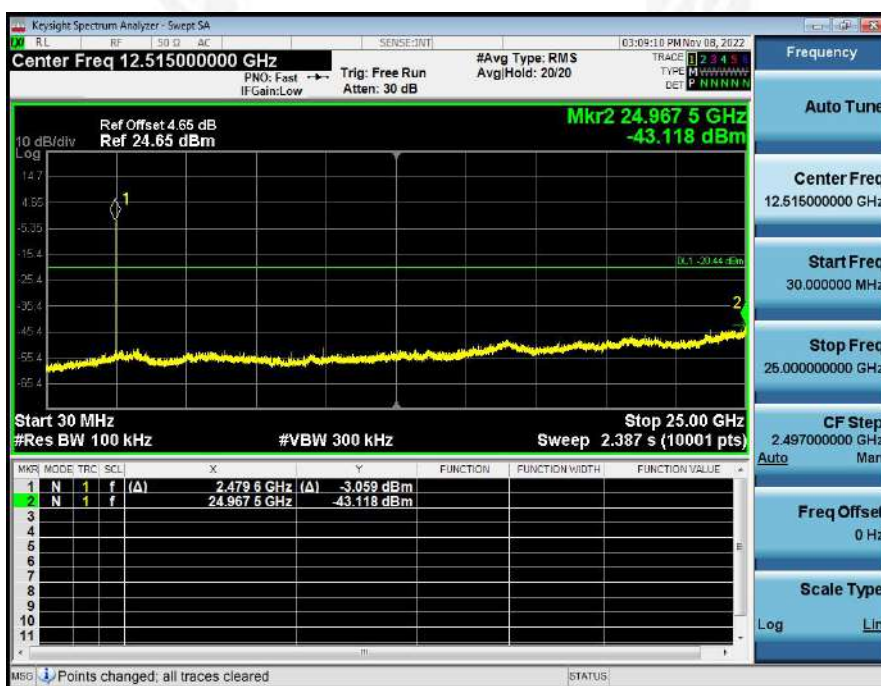
30MHz~25Hz





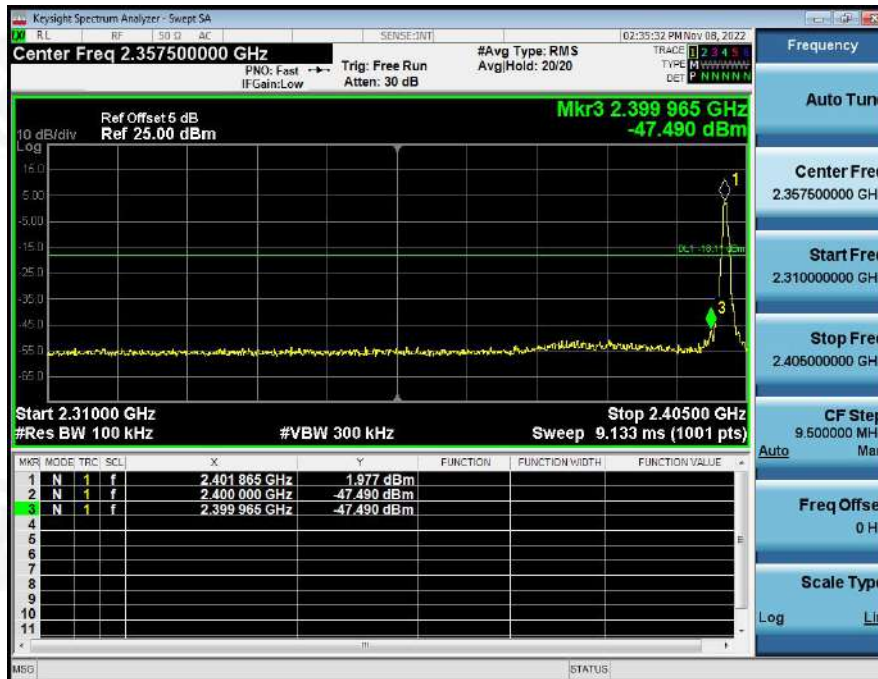
Test channel:	Highest channel
---------------	-----------------

30MHz~25GHz

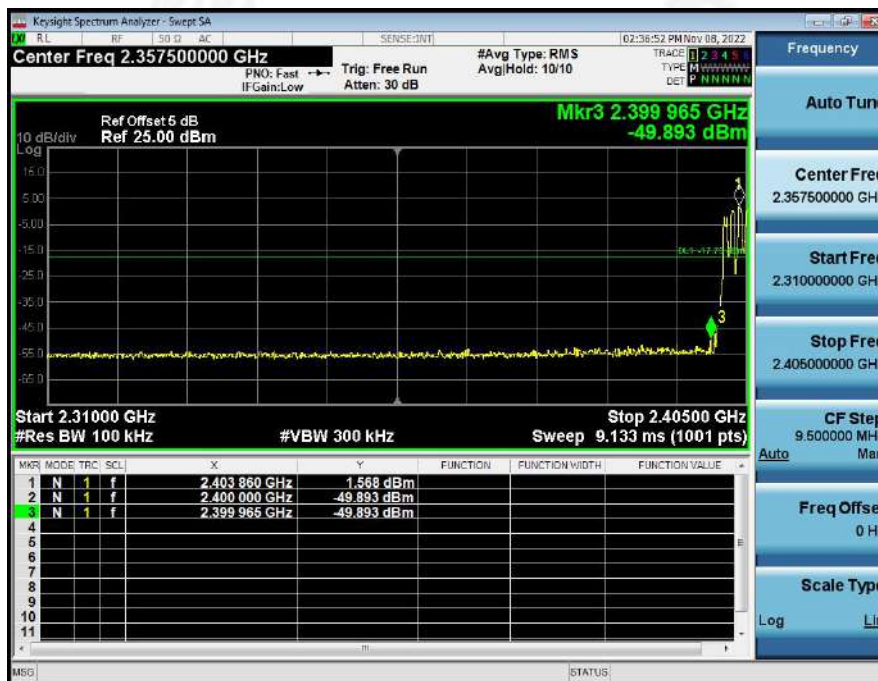




GFSK No-hopping Band edge-left side

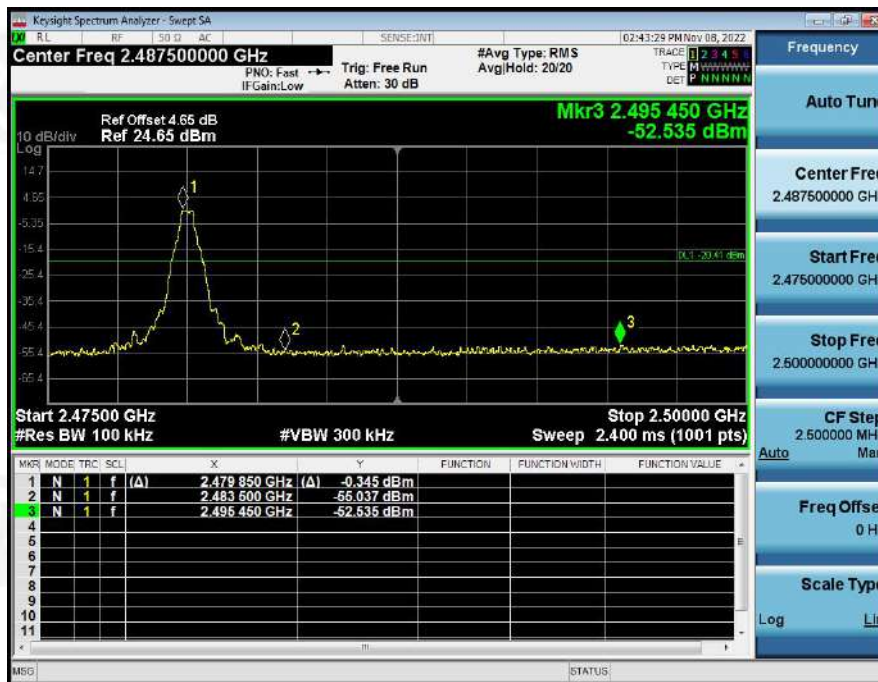


GFSK Hopping Band edge-left side

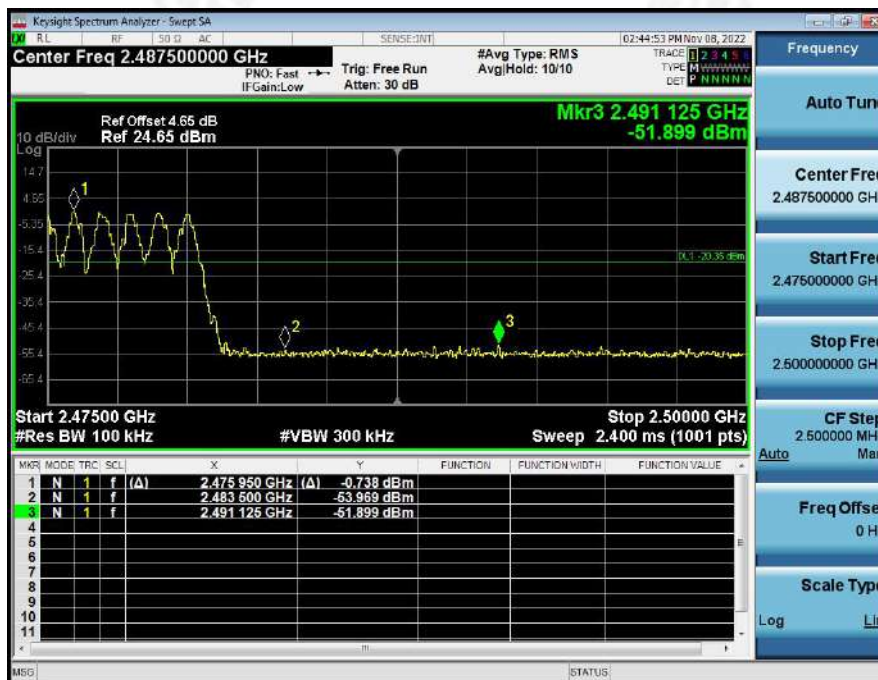




GFSK No-hopping Band edge-right side

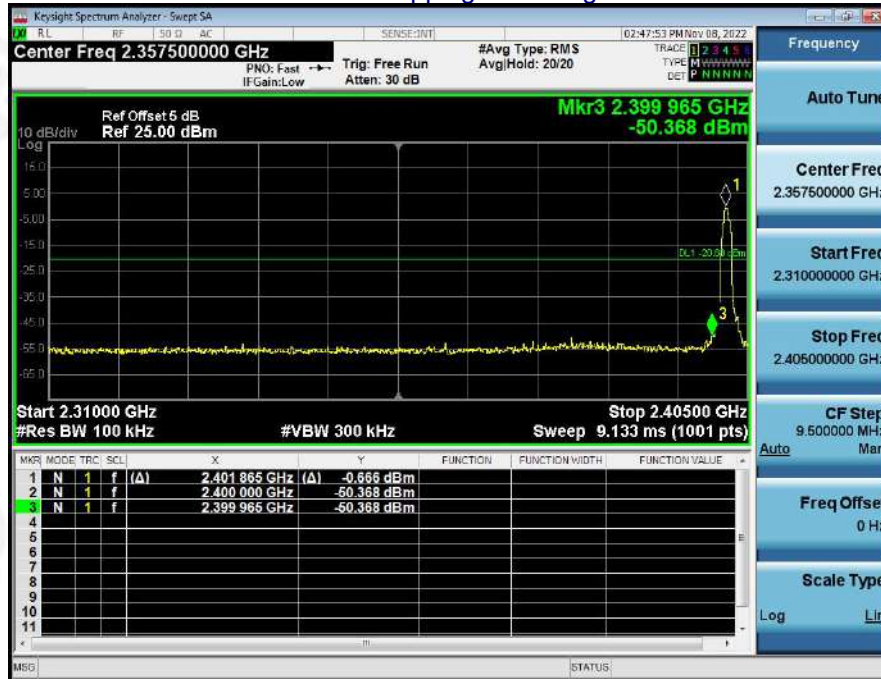


GFSK Hopping Band edge-right side

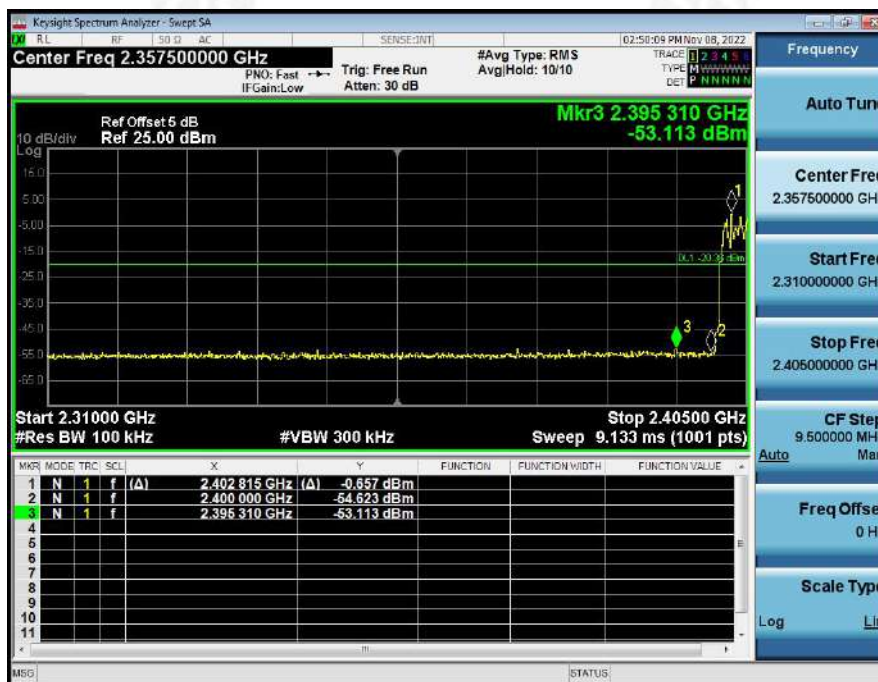




$\pi/4$ -DQPSK No-hopping Band edge-left side

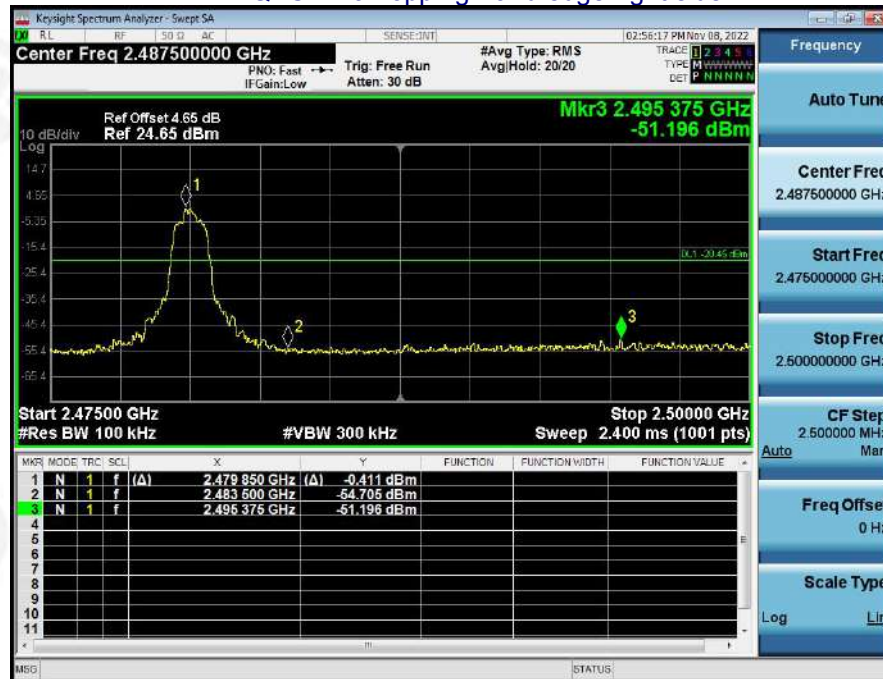


$\pi/4$ -DQPSK Hopping Band edge-left side





$\pi/4$ -DQPSK No-hopping Band edge-right side

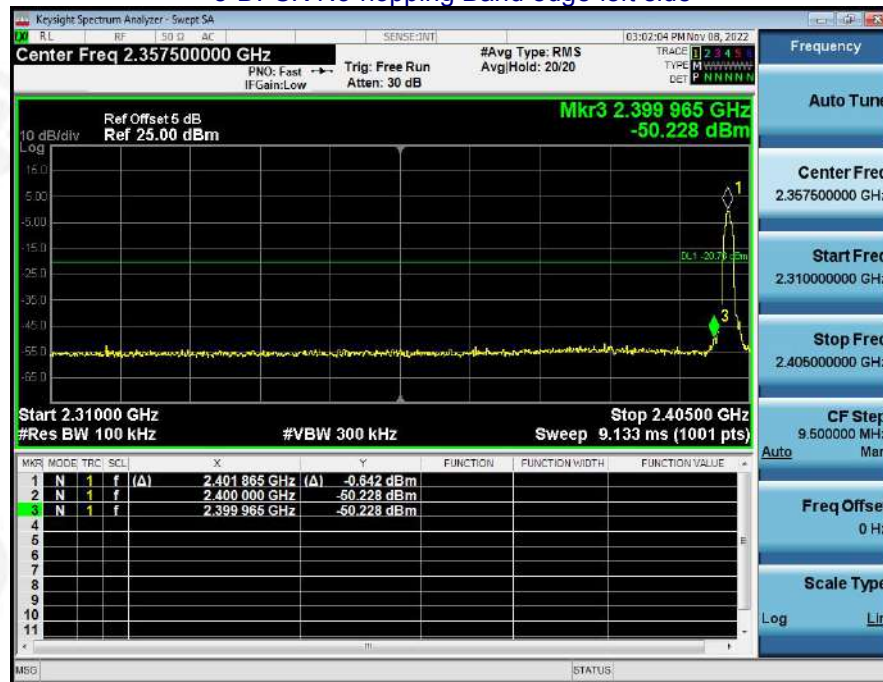


$\pi/4$ -DQPSK Hopping Band edge-right side





8-DPSK No-hopping Band edge-left side

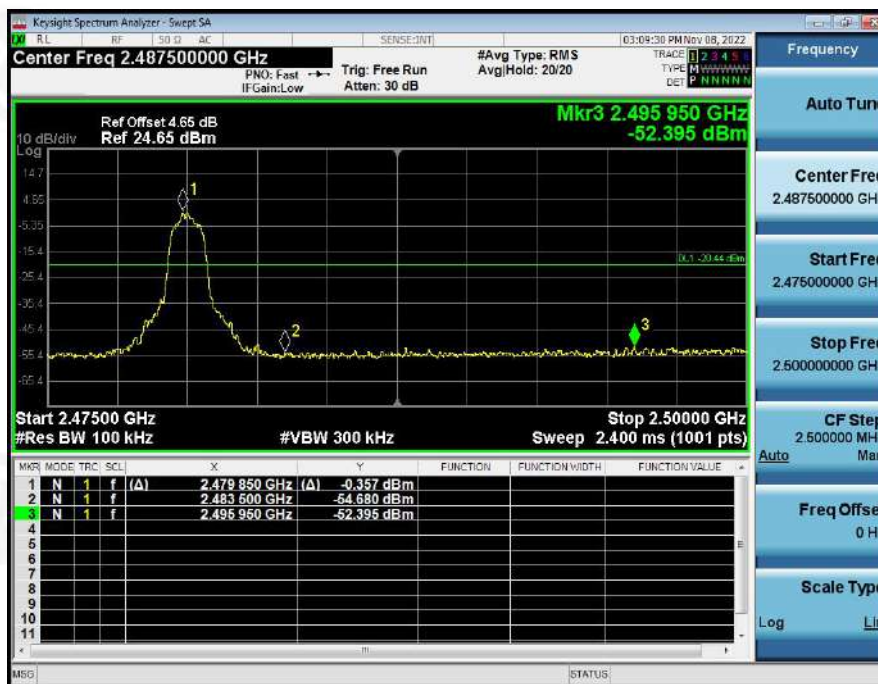


8-DPSK Hopping Band edge-left side





8-DPSK No-hopping Band edge-right side



8-DPSK Hopping Band edge-right side





7. 20DB&99% BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013

7.1 Test Setup



7.2 Limit

N/A

7.3 Test procedure

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

7.4 DEVIATION FROM STANDARD

No deviation.

7.5 Test Result

Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.873	Pass
	Middle	0.868	
	Highest	0.863	
$\pi/4$ -DQPSK	Lowest	1.258	Pass
	Middle	1.255	
	Highest	1.250	
8-DPSK	Lowest	1.301	Pass
	Middle	1.304	
	Highest	1.307	



Test plots

GFSK Low Channel





GFSK Middle Channel



GFSK High Channel





$\pi/4$ -DQPSK Low Channel



$\pi/4$ -DQPSK Middle Channel





$\pi/4$ -DQPSK High Channel





8-DPSK Low Channel





Keysight Spectrum Analyzer - Occupied BW

03:03:57 PM Nov 08, 2022

Center Freq 2.441000000 GHz

Center Freq: 2.441000000 GHz

Radio Std: None

Trig: Free Run

Avg/Hold: >10/10

#F Gain: Low

#Atten: 30 dB

Radio Device: BTS

Ref Offset 4.71 dB

Ref 24.71 dBm

10 dB/div

Log

Center 2.441 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 3 MHz

Sweep 3.2 ms

Occupied Bandwidth	Total Power
1.1811 MHz	6.36 dBm

Transmit Freq Error	% of OBW Power
2.193 kHz	99.00 %

x dB Bandwidth	x dB
1.304 MHz	-20.00 dB

MSO

STATUS

Frequency

Center Freq

2.441000000 GHz

CF Step

300.000 kHz

Auto

Man

Freq Offset

0 Hz

Keysight Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:INT 03:07:26 PM Nov 08, 2022

Center Freq 2.480000000 GHz Radio Std: None

Trig: Free Run Avg/Hold: 10/10

#F Gain: Low #Atten: 30 dB Radio Device: BTS

Ref Offset 4.65 dB
Ref 24.65 dBm

10 dB/div Log

Center Freq 2.48 GHz Span 3 MHz
#Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms

Occupied Bandwidth		Total Power	
1.1827 MHz		6.61 dBm	

Transmit Freq Error		% of OBW Power	
-826 Hz		99.00 %	

x dB Bandwidth		x dB	
1.307 MHz		-20.00 dB	

MSG STATUS

Frequency

Center Freq 2.480000000 GHz

CF Step 300.000 kHz

Auto

Freq Offset 0 Hz



8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Limit:	30dBm(for GFSK), 20.97dBm(for EDR)

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 spectrum.
2. Set the spectrum analyzer: RBW = 3MHz. VBW =8MHz. Sweep = auto; Detector Function = Peak.
3. 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	-0.42	30.00	Pass
	Middle	-0.45		
	Highest	-0.16		
$\pi/4$ -DQPSK	Lowest	0.48	21.00	Pass
	Middle	0.42		
	Highest	0.69		
8-DPSK	Lowest	0.82	21.00	Pass
	Middle	0.82		
	Highest	1.07		



Test plots

GFSK Low Channel



GFSK Middle Channel





GFSK High Channel



$\pi/4$ -DQPSK Low Channel





$\pi/4$ -DQPSK Middle Channel



$\pi/4$ -DQPSK High Channel

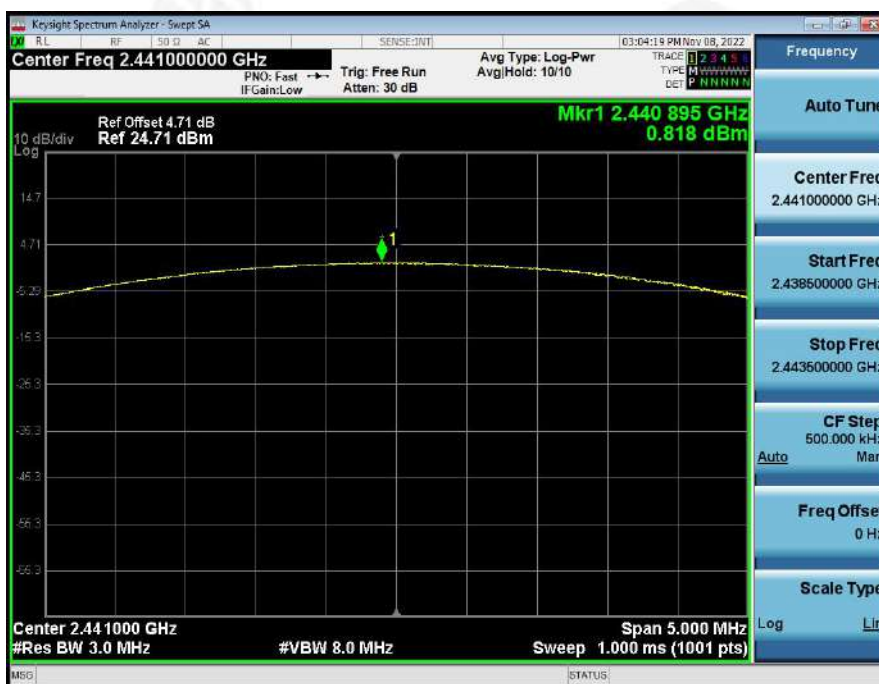




8-DPSK Low Channel



8-DPSK Middle Channel





8-DPSK High Channel





9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak
Limit:	GFSK & $\pi/4$ -DQPSK & 8DSK: 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 = 100kHz. VBW = 300kHz , 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.



Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1.002	0.873	PASS
GFSK	Middle	1.002	0.868	PASS
GFSK	High	0.999	0.863	PASS
$\pi/4$ -DQPSK	Low	0.999	0.839	PASS
$\pi/4$ -DQPSK	Middle	1.002	0.837	PASS
$\pi/4$ -DQPSK	High	0.999	0.833	PASS
8-DPSK	Low	1.002	0.867	PASS
8-DPSK	Middle	0.999	0.869	PASS
8-DPSK	High	1.002	0.871	PASS

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 02:38:04 PM Nov 08, 2022

Center Freq 2.402500000 GHz #Avg Type: RMS AvgHold: 10/10

PNO: Wide → Trig: Free Run IF Gain: Low Atten: 30 dB

TRACE 1 2 3 4 5 1 TYPE M DET P N N N N N

Ref Offset 6 dB Ref 25.00 dBm

ΔMkr1 1.002 MHz 0.045 dB

10 dB/div Log

Center 2.402500 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.000 MHz Sweep 1.000 ms (1001 pts)

MSG STATUS

Frequency

Auto Tun

Center Freq 2.402500000 GHz

Start Freq 2.401000000 GHz

Stop Freq 2.404000000 GHz

CF Step 300.000 kHz

Auto

Freq Offset 0 Hz

Scale Type

Log



GFSK Middle Channel



GFSK High Channel





$\pi/4$ -DQPSK Low Channel

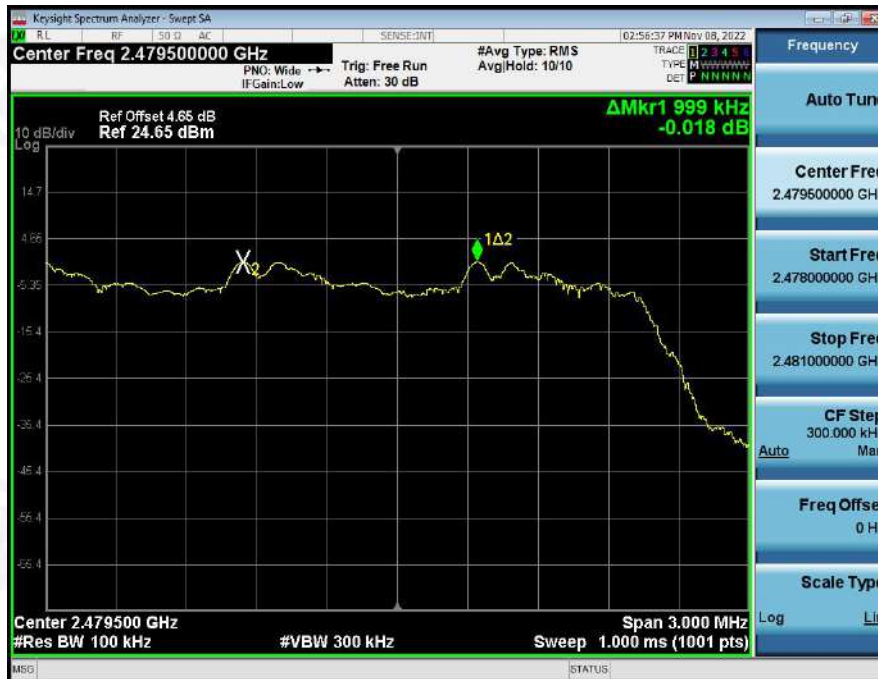


$\pi/4$ -DQPSK Middle Channel

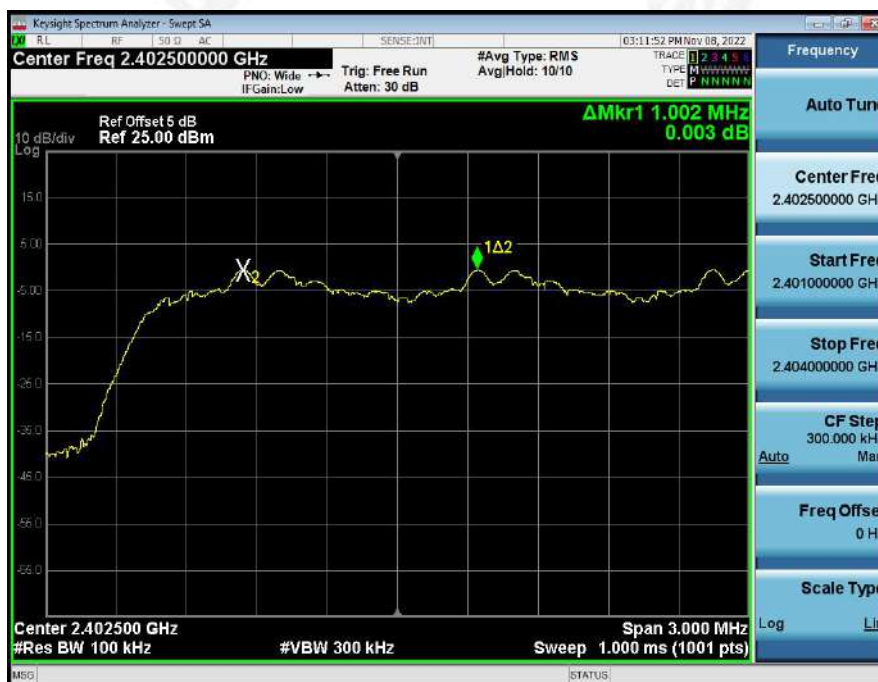




$\pi/4$ -DQPSK High Channel



8-DPSK Low Channel





8-DPSK Middle Channel



8-DPSK High Channel





10.NUMBER OF HOPPING FREQUENCY

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels

10.1 Test Setup



10.2 Test procedure

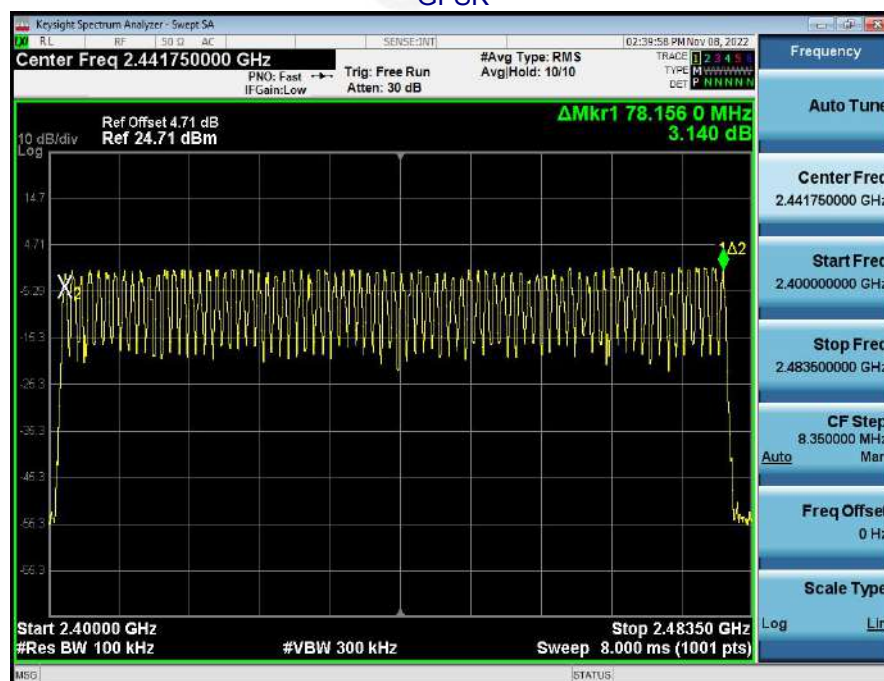
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to 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.

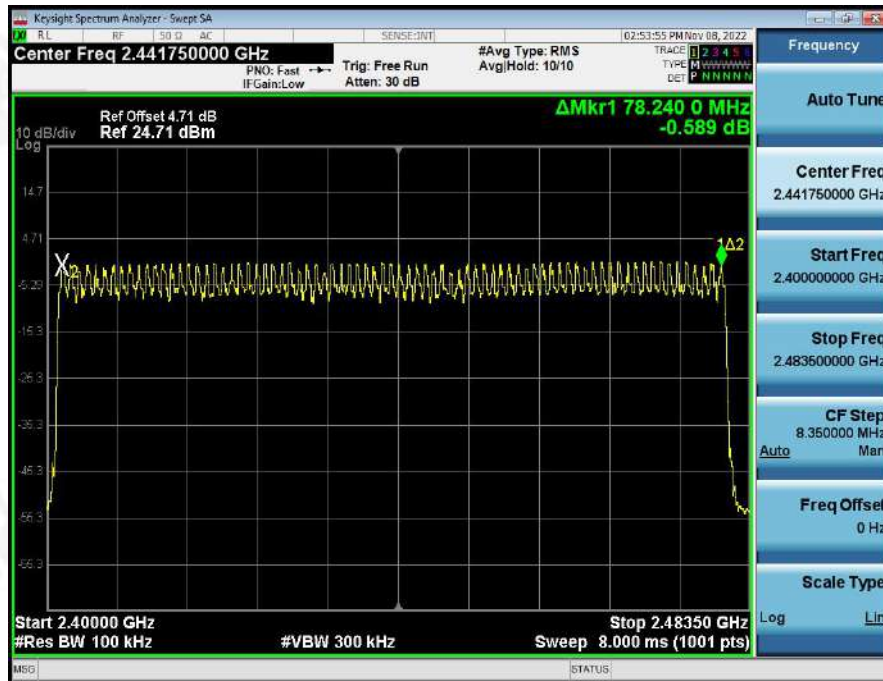
10.4 Test Result

Test Plots:
GFSK

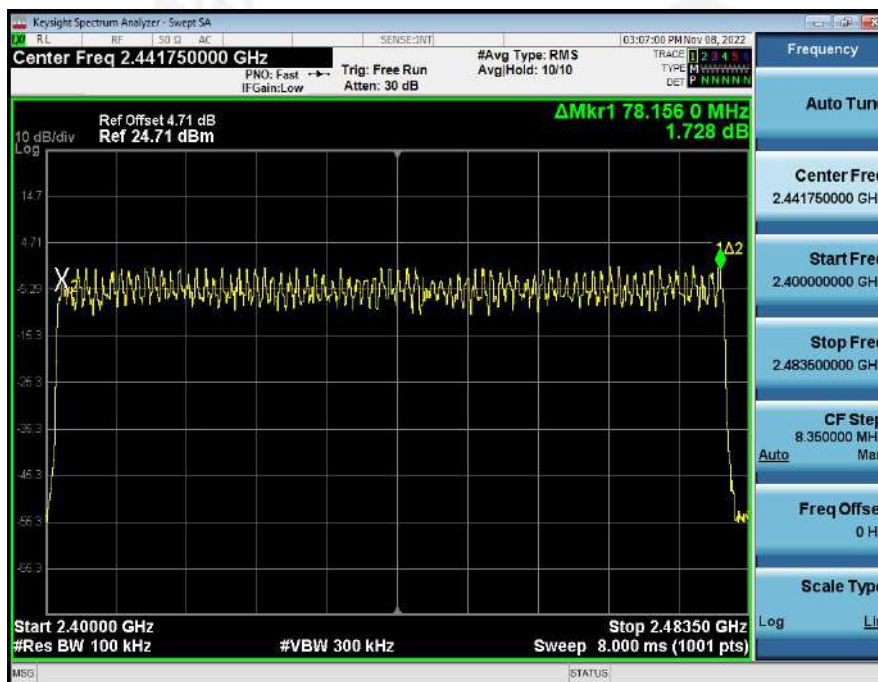




$\pi/4$ -DQPSK



8-DPSK





11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
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

GFSK mode:

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1	122.56	400	Pass
2441MHz	DH3	262.40	400	Pass
2441MHz	DH5	307.95	400	Pass

Remarks:

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

Test channel: as blow

CH:2441MHz time slot= $0.383(\text{ms}) \times (1600 / (2 \times 79)) \times 31.6$

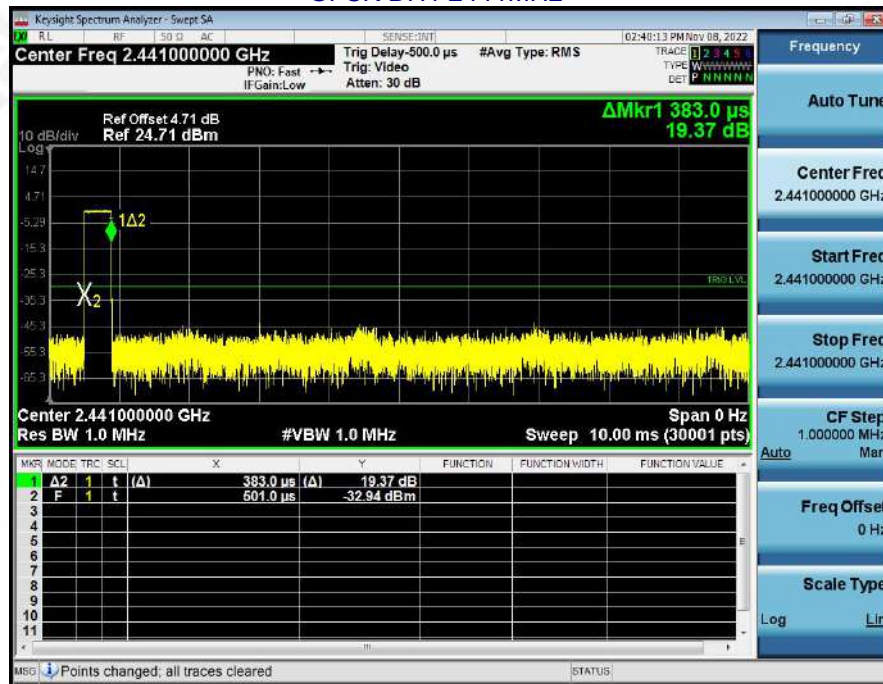
CH:2441MHz time slot= $1.640(\text{ms}) \times (1600 / (4 \times 79)) \times 31.6$

CH:2441MHz time slot= $2.887(\text{ms}) \times (1600 / (6 \times 79)) \times 31.6$

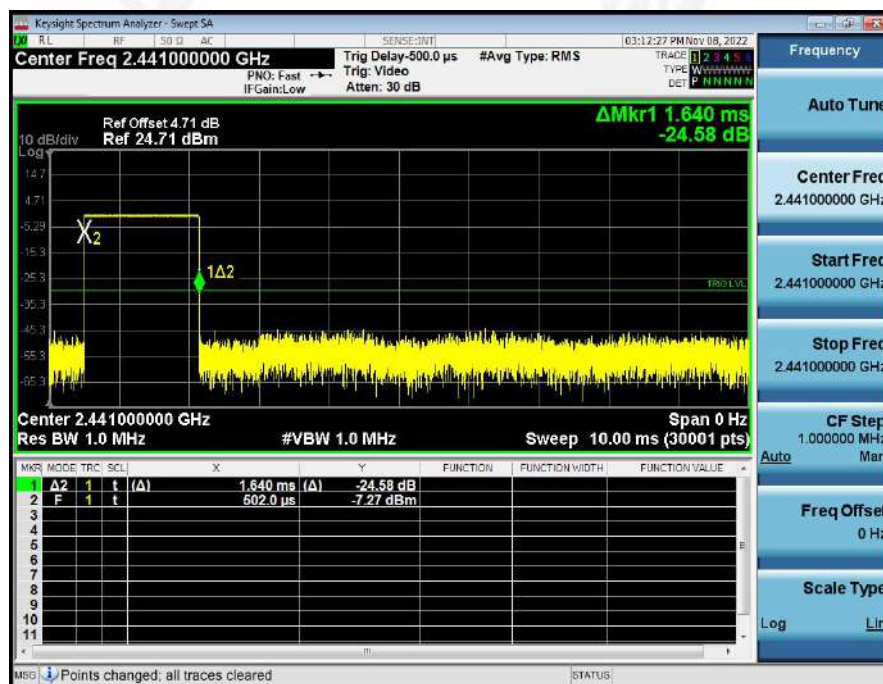


Test Plots

GFSK DH1 2441MHz

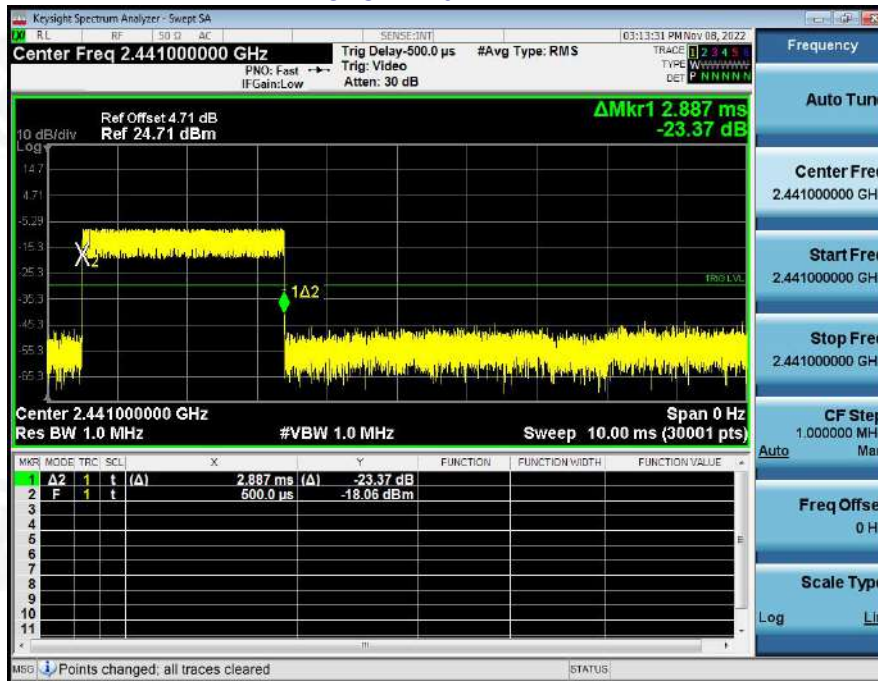


GFSK DH3 2441MHz





GFSK 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 Internal Antenna, the best case gain of the antennas is 2.73 dBi, 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.

***** END OF REPORT *****