



Test Report No.: RF2201WDG0154



TEST REPORT

Applicant	The House of Marley. LLC
Address	3000 Pontiac Trail, Commerce Township, Michigan 48390 United States

Manufacturer or Supplier	The House of Marley. LLC
Address	3000 Pontiac Trail, Commerce Township, Michigan 48390 United States
Product	Stir it Up Wireless Turntable, Simmer Down Wireless Turntable
Brand Name	 Marley, MARLEY
Model	EM-JT002A
Additional Model & Model Difference	EM-JT003A, EM-JT002B, EM-JT003B; See item 3.1
Date of tests	Jan. 20, 2022 ~ April. 28, 2022

the tests have been carried out according to the requirements of the following standards:

☒ **FCC Part 15, Subpart C, Section 15.247**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Jul. 05, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2201WDG0154	Original release	Jul. 05, 2022

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.247(a)(1)(iii)	Number of Hopping Frequency Used	PASS	Meet the requirement of limit.
15.247(a)(1)(iii)	Dwell Time on Each Channel	PASS	Meet the requirement of limit.
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output Power	PASS	Meet the requirement of limit.
15.247(d)&15.209	Transmitter Radiated Emission	PASS	Meet the requirement of limit.
15.247(d)	Out of band Emission Measurement	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz (AMN)	$\pm 3.05\text{dB}$
2	Conducted emission 150kHz-30MHz (AMN)	$\pm 2.7\text{ dB}$
3	Radiated emission 30MHz-1GHz (SAC)	$\pm 4.6\text{ dB}$
4	Radiated emission 1GHz-18GHz (FAR)	$\pm 4.4\text{ dB}$
Remark: 95% Confidence Levels, k=2.		

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Stir it Up Wireless Turntable, Simmer Down Wireless Turntable
MODEL NO.	EM-JT002A
ADDITIONAL MODELS	EM-JT003A, EM-JT002B, EM-JT003B
FCC ID	PVB-EMJT002A
POWER SUPPLY	DC 12V From Adapter input 100-240V~50/60Hz 0.5A
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, $\pi/4$ DQPSK, 8DPSK
OPERATING FREQUENCY	2402MHz~2480MHz
NUMBER OF CHANNEL	79
PEAK OUTPUT POWER	3.882 mW (Max. Measured)
ANTENNA TYPE	PCB Antenna, 0dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	1: 1.3m USB Cable(Only for EM-JT002A,EM-JT003A) 2: 2.0m RCA audio cable

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2201WDG0154) for detailed product photo.
- The EUT can be powered by adapter as list as following:

ADAPTER	
BRAND:	NA
MODEL:	BI12T-120025-I
INPUT:	100-240V~50/60Hz 0.5A
OUTPUT:	12.0V/0.25A 3.0W
DC LINE:	1.5M WITHOUT FERRITE

- Additional models (see about table) are the same as the test Model: EM-JT002A in hardware aspect, except USB-PC function functional differences, for more details please refer to the list below. The difference in Production name, model number and appearance distribution for trading purpose.

Production name	Appearance	Trade name	Model no.	Stylus no.	With or Without USB-PC function
Stir it Up Wireless Turntable	Signature black	 MARLEY	EM-JT002A	Can be AT3600L	W

Simmer Down Wireless Turntable	Chocolate black		EM-JT003A	or DYM5-T	W
Stir it Up Wireless Turntable	Signature black		EM-JT002B		W/O
Simmer Down Wireless Turntable	Chocolate black		EM-JT003B		W/O

3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

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

3.2.1. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, power supply voltage range and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	√	√	AC 120V/60Hz with BT function

Where **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	39	FHSS	GFSK	DH5

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0, 39, 78	FHSS	GFSK	DH5
A	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
A	BT Link

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0, 39, 78	FHSS	GFSK	DH5
A	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (Adapter)	TESTED BY
RE<1G	24.6deg. C, 53%RH	AC 120V 60Hz	Lucas Ouyang
RE≥1G	24.6deg. C, 53%RH	AC 120V 60Hz	Lucas Ouyang
PLC	25.4deg. C, 52%RH	AC 120V 60Hz	STALKER
APCM	25.3deg. C, 53%RH	AC 120V 60Hz	Erank Ouyang



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3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. Section 15.247

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessory or support units.

4 TEST TYPES AND RESULTS

4.1. CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Jan. 18, 23
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Jan. 23, 23
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Jan. 18, 23
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Aug. 05, 22
Coaxial RF Cable	/	CE CABLE	C2310066D G	Jul. 27, 22
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

NOTES:

- The test was performed in shielded room 553.
- The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.1.3 TEST PROCEDURES

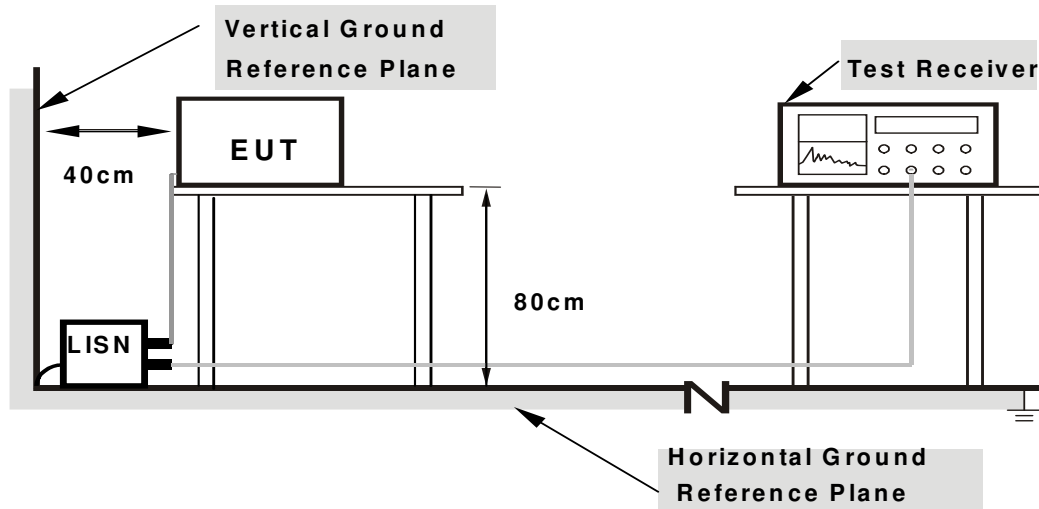
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 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 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

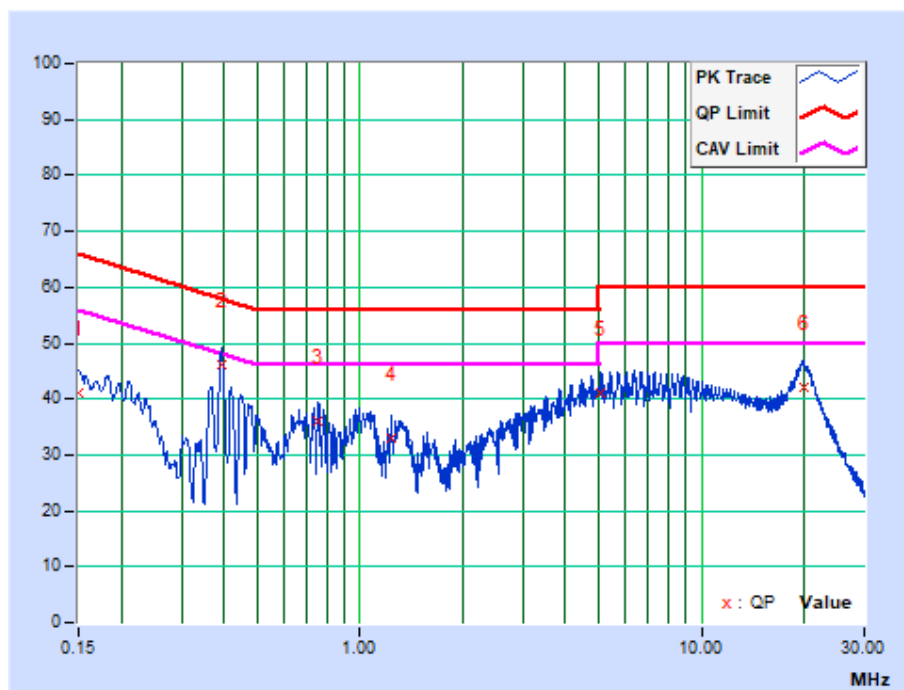
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

PHASE	Line	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.93	31.22	13.73	41.15	23.66	66.00	56.00	-24.85	-32.34
2	0.39284	10.14	36.10	23.09	46.24	33.23	58.00	48.00	-11.77	-14.78
3	0.75612	10.22	25.65	12.57	35.87	22.79	56.00	46.00	-20.13	-23.21
4	1.23900	10.30	22.81	10.25	33.11	20.55	56.00	46.00	-22.89	-25.45
5	5.07975	10.59	30.64	18.56	41.23	29.15	60.00	50.00	-18.77	-20.85
6	19.91400	10.84	31.40	19.89	42.24	30.73	60.00	50.00	-17.76	-19.27

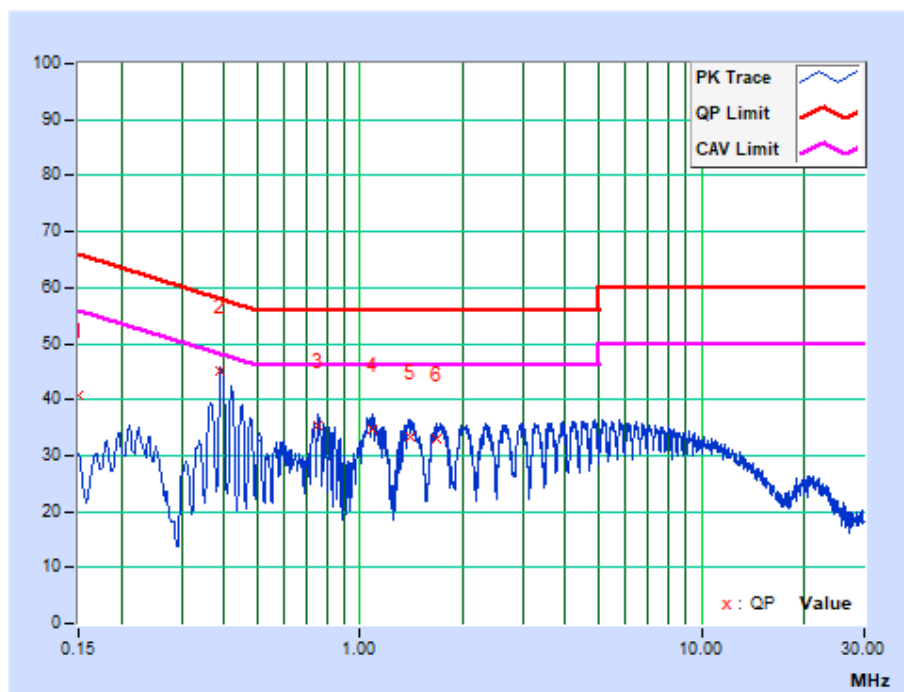
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Neutral	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.83	30.75	15.61	40.58	25.44	66.00	56.00	-25.42	-30.56
2	0.39077	10.02	35.22	28.79	45.24	38.81	58.05	48.05	-12.81	-9.24
3	0.75300	10.07	25.26	15.89	35.33	25.96	56.00	46.00	-20.67	-20.04
4	1.08565	10.14	24.43	16.11	34.57	26.25	56.00	46.00	-21.43	-19.75
5	1.40997	10.16	23.04	15.05	33.20	25.21	56.00	46.00	-22.80	-20.79
6	1.68675	10.17	22.92	14.77	33.09	24.94	56.00	46.00	-22.91	-21.06

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2. RADIATED EMISSION AND BANDEGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

Radiated Emission Test – 3m SAC						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
☒	3m SAC	ETS-LINDGREN	3m	N/A	Jan. 22, 2022	Jan. 20, 2023
☒	Receiver	R&S	ESIB26	100114	Nov. 5, 2021	Nov. 4, 2022
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Nov.11, 2021	Nov.10, 2022
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	Nov.11, 2021	Nov.10, 2022
☒	Preamplifier	HP	8447F	2805A02960	Nov. 5, 2021	Nov. 4, 2022
☒	Double-Ridged Waveguide Horn Antenna	ETS-LINDGREN	3117-PA	00201541	Apr. 17, 2022	Apr. 16, 2023
☒	(Pre-amplifier)	ETS-LINDGREN	00118385	00201874	Nov. 6, 2021	Nov. 5, 2022
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Apr. 15, 2022	Apr. 14, 2023
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	Nov. 05, 2021	Nov. 04, 2022

- NOTES:** 1. The test was witness in Shenzhen Union Trust Quality and Technology Co., Ltd.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its 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 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. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

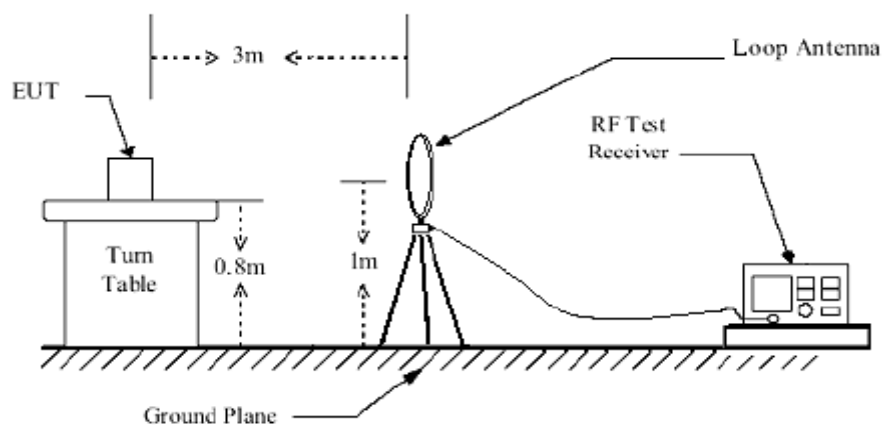
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

4.2.4 DEVIATION FROM TEST STANDARD

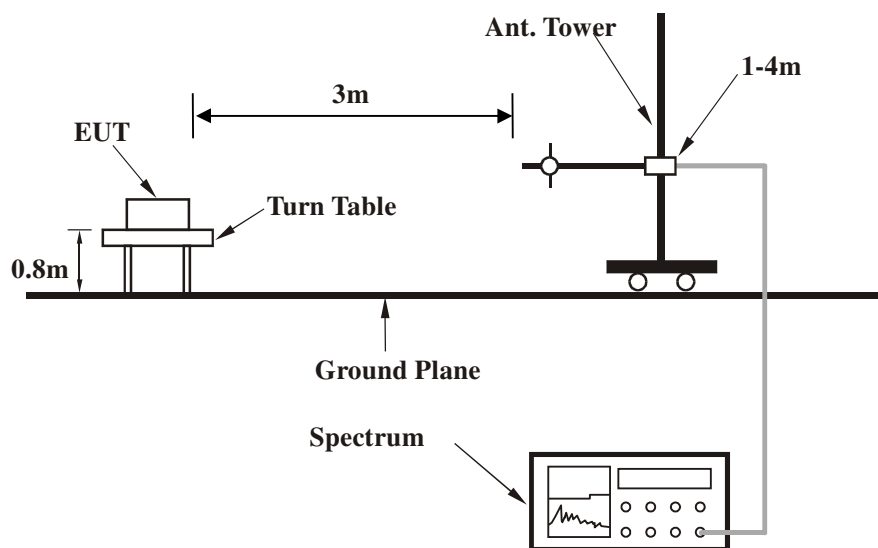
No deviation.

4.2.5 TEST SETUP

Below 30MHz test setup

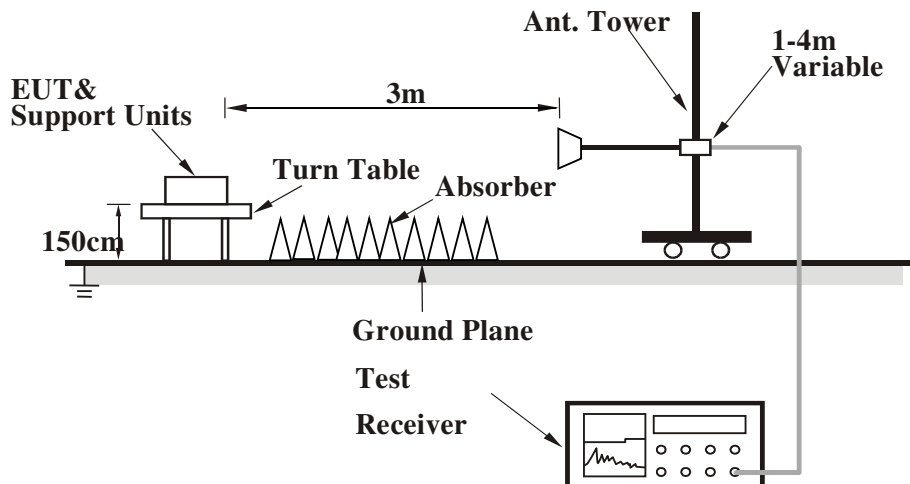


Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

Above 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

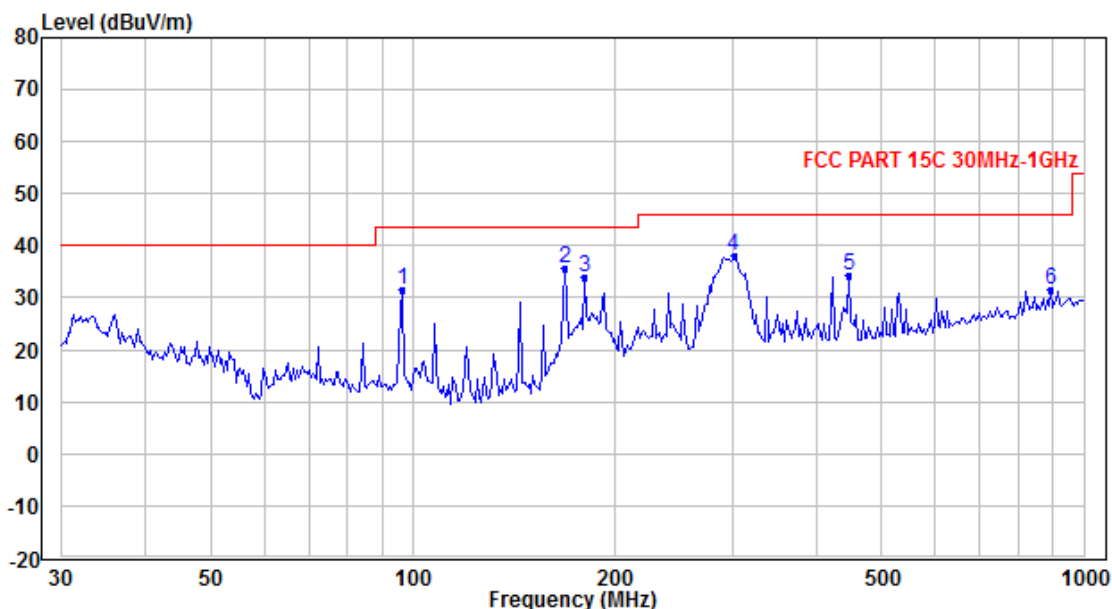
GFSK DH5

CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
1	96.323	31.45	43.50	-12.05	1.00 H	206	43.62	-15.84
2	168.997	35.56	43.50	-7.94	1.20 H	112	56.00	-11.75
3	180.030	33.82	43.50	-9.68	2.00 H	72	57.64	-10.06
4	300.699	38.03	46.00	-7.97	1.15 H	43	53.25	-6.53
5	445.693	34.22	46.00	-11.78	1.70 H	28	48.90	-4.26
6	893.656	31.49	46.00	-14.51	1.43 H	87	48.53	4.26

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value

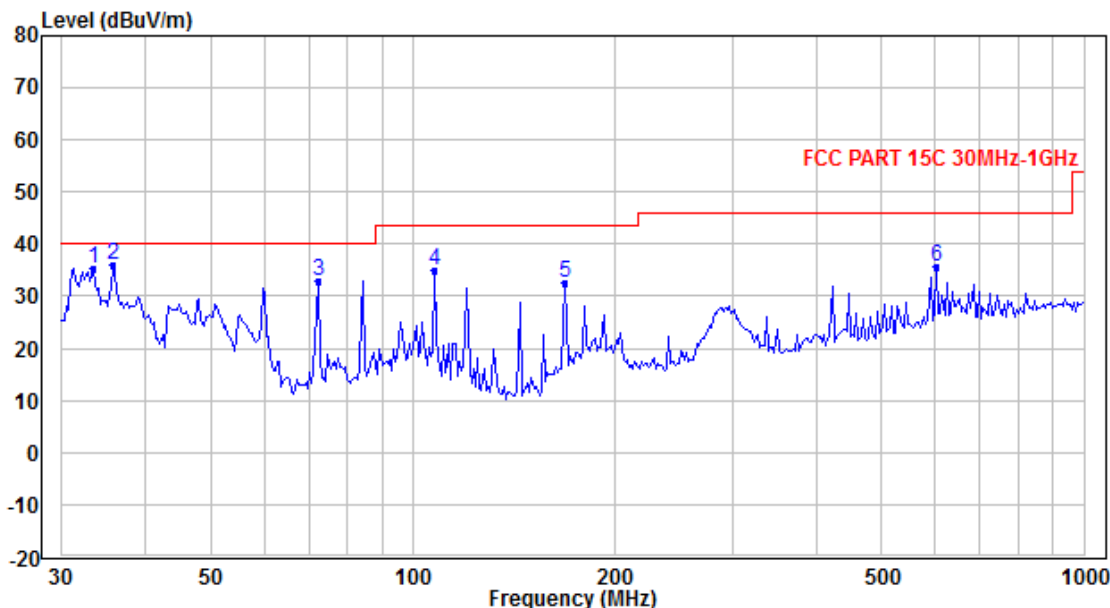


CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
1	33.335	35.41	40.00	-4.59	1.10 V	35	49.24	-4.87
2	35.762	36.01	40.00	-3.99	1.60 V	87	58.11	-5.14
3	72.211	32.94	40.00	-7.06	1.05 V	110	57.47	-17.50
4	107.785	35.01	43.50	-8.49	1.40 V	158	51.04	-16.03
5	168.997	32.73	43.50	-10.77	2.00 V	57	51.23	-11.75
6	602.929	35.84	46.00	-10.16	1.35 V	176	45.99	-0.72

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value



ABOVE 1GHz DATA

BT_GFSK

Channel 0:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	2390.00	55.99	-8.44	47.55	74.00	-26.45	Peak	Horizontal
2	2390.00	39.35	-8.44	30.91	54.00	-23.09	Average	Horizontal
3	4804.00	41.32	-2.34	38.98	74.00	-35.02	Peak	Horizontal
4	4804.00	28.34	-2.34	26.00	54.00	-28.00	Average	Horizontal
5	7206.00	47.52	1.43	48.95	74.00	-25.05	Peak	Horizontal
6	7206.00	29.55	1.43	30.98	54.00	-23.02	Average	Horizontal
7	2390.00	54.00	-8.44	45.56	74.00	-28.44	Peak	Vertical
8	2390.00	38.39	-8.44	29.95	54.00	-24.05	Average	Vertical
9	4804.00	41.81	-2.34	39.47	74.00	-34.53	Peak	Vertical
10	4804.00	30.34	-2.34	28.00	54.00	-26.00	Average	Vertical
11	7206.00	48.02	1.43	49.45	74.00	-24.55	Peak	Vertical
12	7206.00	32.36	1.43	33.79	54.00	-20.21	Average	Vertical

Channel 39:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4882.00	39.67	3.92	37.37	74.00	-36.63	Peak	Horizontal
2	4882.00	26.52	3.92	24.22	54.00	-29.78	Average	Horizontal
3	7323.00	49.78	4.84	51.39	74.00	-22.61	Peak	Horizontal
4	7323.00	32.31	4.84	33.92	54.00	-20.08	Average	Horizontal
5	4882.00	39.19	3.92	36.89	74.00	-37.11	Peak	Vertical
6	4882.00	26.52	3.92	24.22	54.00	-29.78	Average	Vertical
7	7323.00	50.72	4.84	52.33	74.00	-21.67	Peak	Vertical
8	7323.00	36.25	4.84	33.78	54.00	-20.22	Average	Vertical

Channel 78:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	2483.50	60.83	3.96	52.72	74.00	-21.28	Peak	Horizontal
2	2483.50	52.31	3.96	44.20	54.00	-9.80	Average	Horizontal
3	4960.00	39.71	3.96	37.46	74.00	-36.54	Peak	Horizontal
4	4960.00	26.44	3.96	24.19	54.00	-29.81	Average	Horizontal
5	7440.00	57.14	4.95	58.95	74.00	-15.05	Peak	Horizontal
6	7440.00	34.11	4.95	35.92	54.00	-18.08	Average	Horizontal
7	2483.50	61.10	3.96	52.99	74.00	-21.01	Peak	Vertical
8	2483.50	52.04	3.96	43.93	54.00	-10.07	Average	Vertical
9	4960.00	40.30	3.96	38.05	74.00	-35.95	Peak	Vertical
10	4960.00	26.64	3.96	24.39	54.00	-29.61	Average	Vertical
11	7440.00	56.52	4.95	58.33	74.00	-15.67	Peak	Vertical
12	7440.00	33.70	4.95	35.51	54.00	-18.49	Average	Vertical

BT_8DPSK

Channel 0:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	2390.00	54.65	-8.44	46.21	74.00	-27.79	Peak	Horizontal
2	2390.00	40.14	-8.44	31.70	54.00	-22.30	Average	Horizontal
3	4804.00	42.09	-2.34	39.75	74.00	-34.25	Peak	Horizontal
4	4804.00	28.34	-2.34	26.00	54.00	-28.00	Average	Horizontal
5	7206.00	49.86	1.43	51.29	74.00	-22.71	Peak	Horizontal
6	7206.00	29.96	1.43	31.39	54.00	-22.61	Average	Horizontal
7	2390.00	54.31	-8.44	45.87	74.00	-28.13	Peak	Vertical
8	2390.00	40.25	-8.44	31.81	54.00	-22.19	Average	Vertical
9	4804.00	41.24	-2.34	38.90	74.00	-35.10	Peak	Vertical
10	4804.00	29.42	-2.34	27.08	54.00	-26.92	Average	Vertical
11	7206.00	50.70	1.43	52.13	74.00	-21.87	Peak	Vertical
12	7206.00	31.16	1.43	32.59	54.00	-21.41	Average	Vertical

Channel 39:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4882.00	38.98	3.92	36.68	74.00	-37.32	Peak	Horizontal
2	4882.00	28.59	3.92	26.29	54.00	-27.71	Average	Horizontal
3	7323.00	50.97	4.84	52.58	74.00	-21.42	Peak	Horizontal
4	7323.00	30.34	4.84	31.95	54.00	-22.05	Average	Horizontal
5	4882.00	40.92	3.92	38.62	74.00	-35.38	Peak	Vertical
6	4882.00	27.52	3.92	25.22	54.00	-28.78	Average	Vertical
7	7323.00	46.58	4.84	48.19	74.00	-25.81	Peak	Vertical
8	7323.00	29.27	4.84	30.88	54.00	-23.12	Average	Vertical

Channel 78:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	2483.50	59.53	3.96	51.42	74.00	-22.58	Peak	Horizontal
2	2483.50	49.88	3.96	41.77	54.00	-12.23	Average	Horizontal
3	4960.00	38.25	3.96	36.00	74.00	-38.00	Peak	Horizontal
4	4960.00	26.23	3.96	23.98	54.00	-30.02	Average	Horizontal
5	7440.00	52.22	4.95	54.03	74.00	-19.97	Peak	Horizontal
6	7440.00	49.88	4.95	41.77	54.00	-12.23	Average	Horizontal
7	2483.50	60.88	3.96	52.77	74.00	-21.23	Peak	Vertical
8	2483.50	51.43	3.96	43.32	54.00	-10.68	Average	Vertical
9	4960.00	42.23	3.96	39.98	74.00	-34.02	Peak	Vertical
10	4960.00	27.57	3.96	25.32	54.00	-28.68	Average	Vertical
11	7440.00	56.57	4.95	58.38	74.00	-15.62	Peak	Vertical
12	7440.00	30.32	4.95	32.13	54.00	-21.87	Average	Vertical

REMARKS:

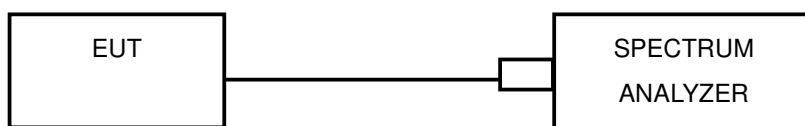
1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit.
4. The emission levels of other frequencies were greater than 20dB margin.

4.3 NUMBER OF HOPPING FREQUENCY USED

4.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Apr. 15, 2022	Apr. 14, 2023
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	Nov. 05, 2021	Nov. 04, 2022
☒	Test Software	Agilent	Power Analyzer	Software Version: 3.11		

NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

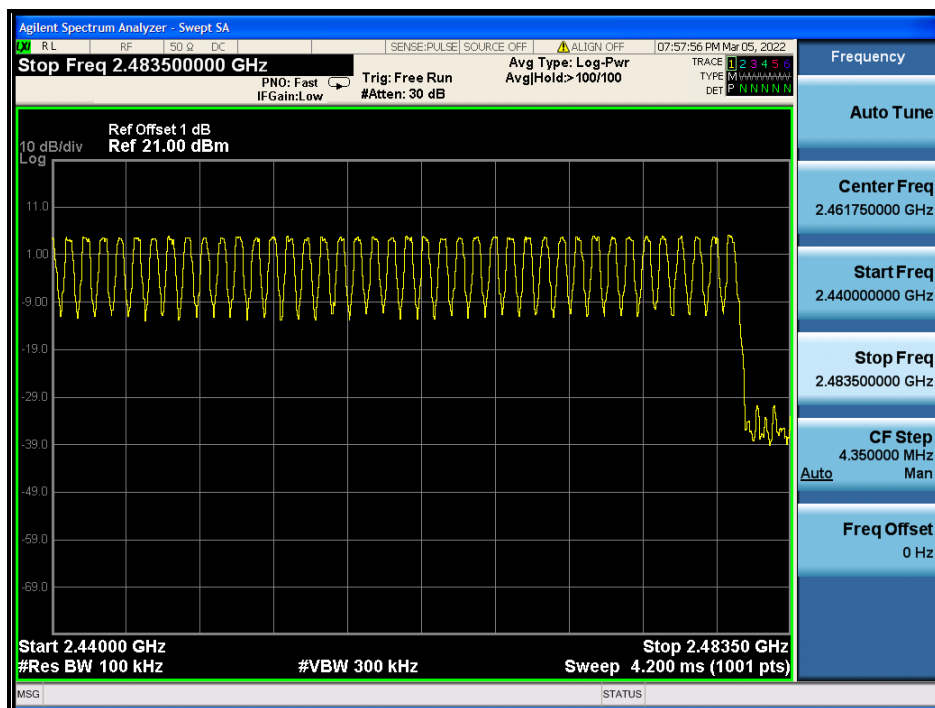
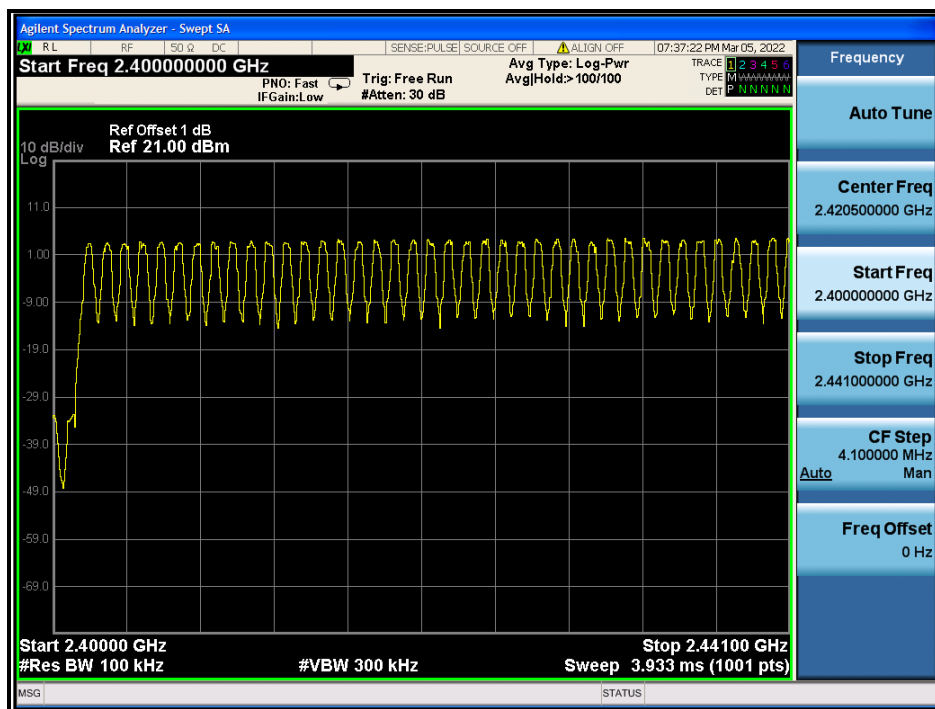
4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

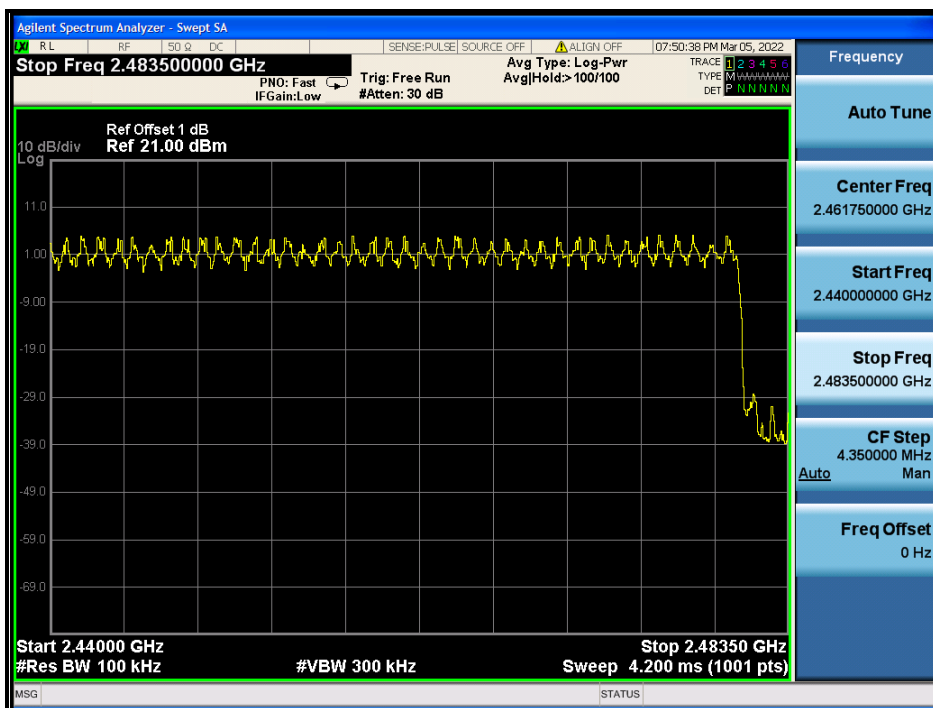
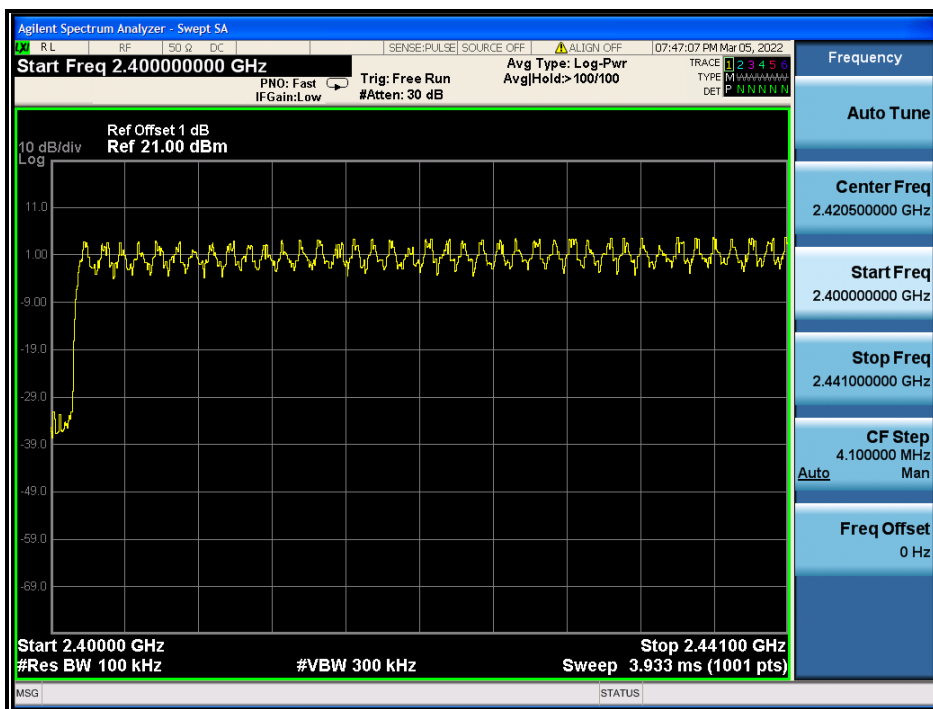
4.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

GFSK



8DPSK

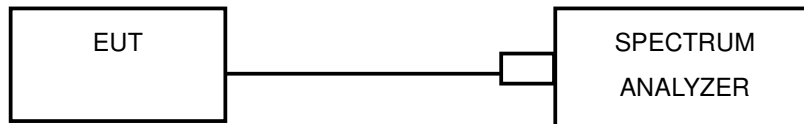


4.4 DWELL TIME ON EACH CHANNEL

4.4.1 LIMIT OF DWELL TIME USED

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

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 TEST RESULTS

GFSK

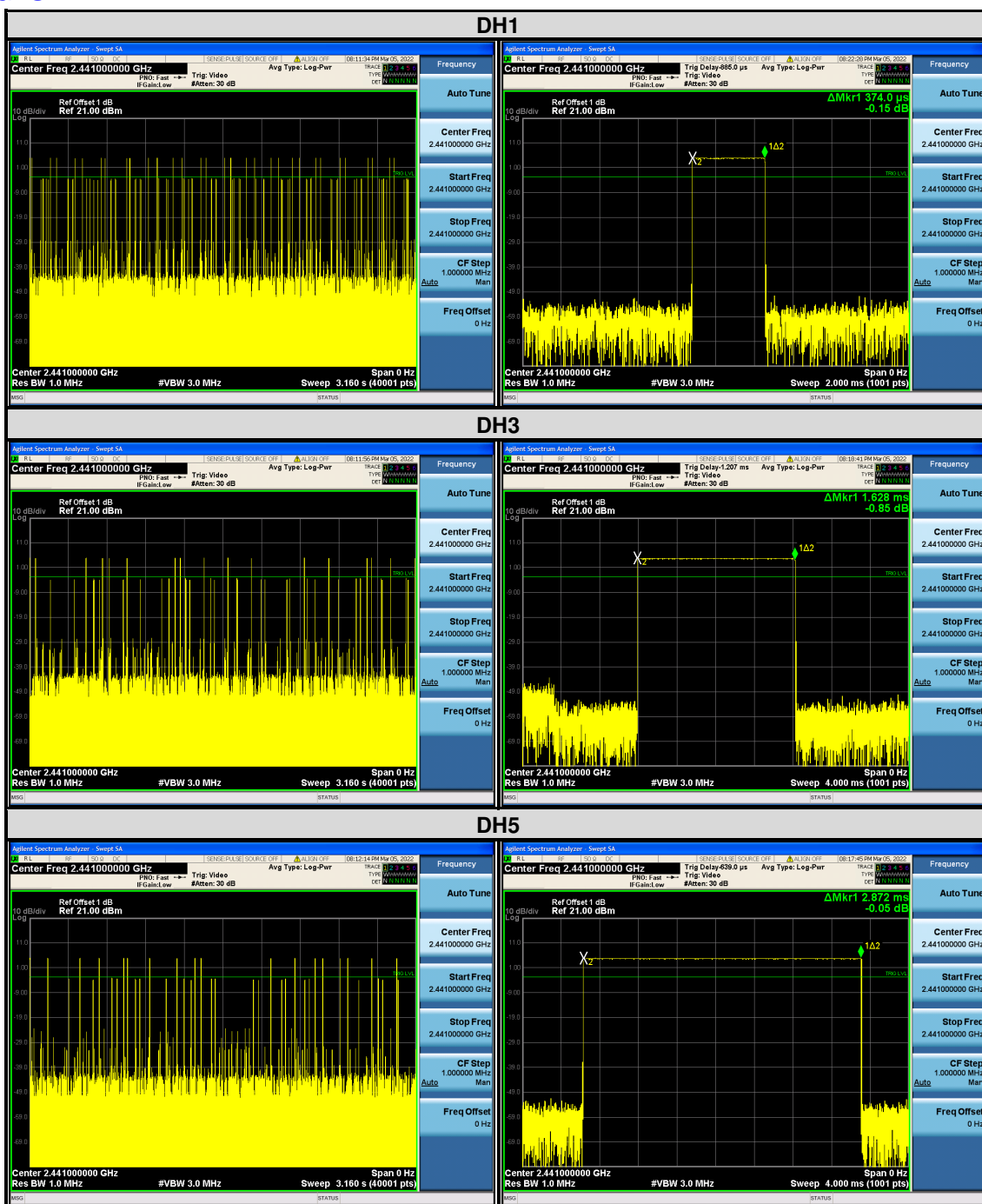
Mode	Number of Hopping Channel	Number of transmission in a period(channel number*0.4 sec)				Length of transmission time (msec)	Result (msec)	Limit (msec)	PASS / FAIL
		period (sec)	sweep time (sec)	times in a sweep	times in a period				
DH1	79	31.6	3.16	34	340	0.374	127.16	400	PASS
DH3	79	31.6	3.16	17	170	1.628	276.76	400	PASS
DH5	79	31.6	3.16	10	100	2.872	287.20	400	PASS

8DPSK

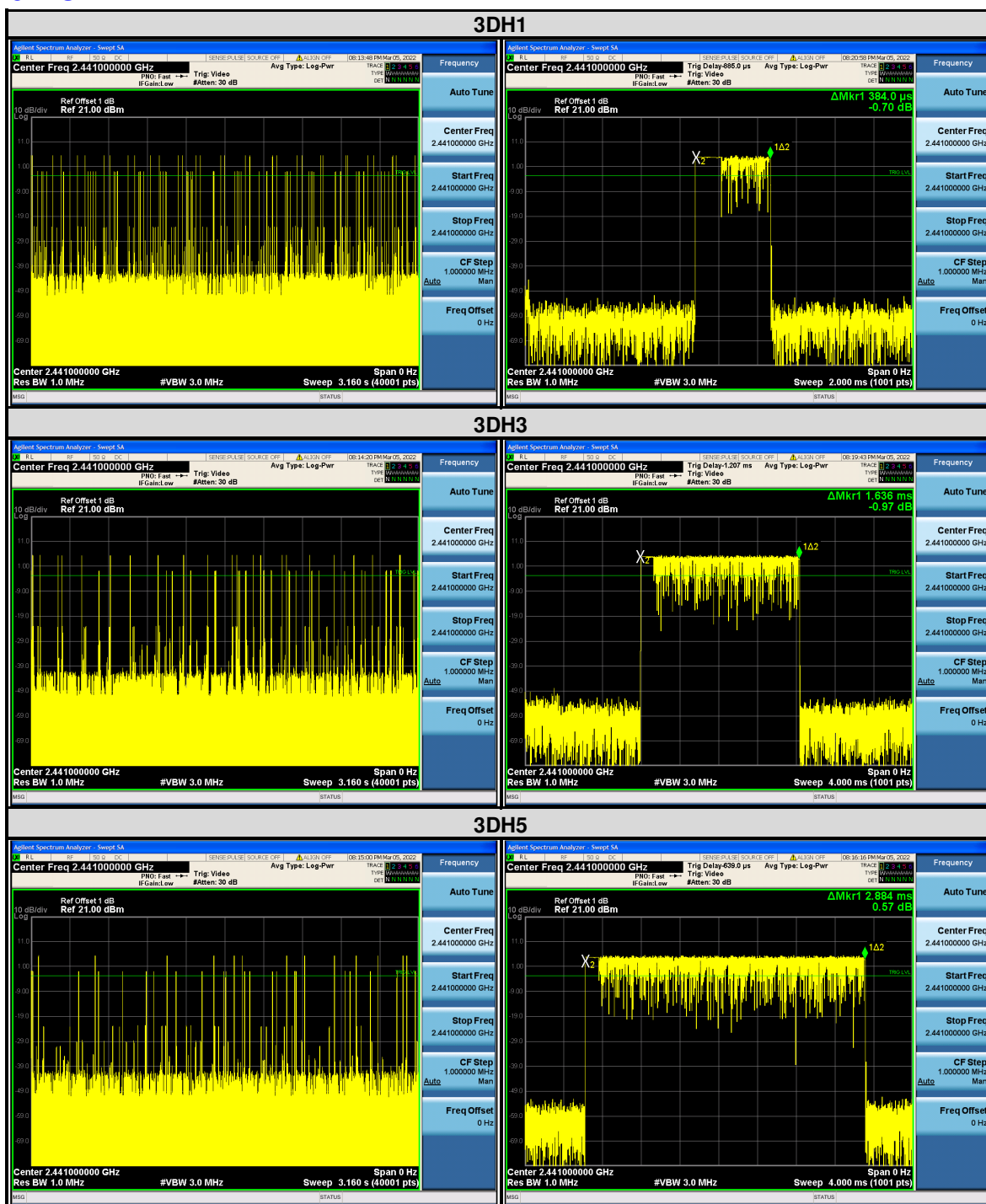
Mode	Number of Hopping Channel	Number of transmission in a period(channel number*0.4 sec)				Length of transmission time (msec)	Result (msec)	Limit (msec)	PASS / FAIL
		period (sec)	sweep time (sec)	times in a sweep	times in a period				
3DH1	79	31.6	3.16	33	330	0.384	126.72	400	PASS
3DH3	79	31.6	3.16	21	210	1.636	343.56	400	PASS
3DH5	79	31.6	3.16	13	130	2.884	374.92	400	PASS

NOTE: Test plots of the transmitting time slot are shown on next page.

GFSK



8DPSK

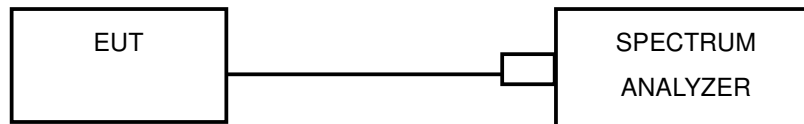


4.5 CHANNEL BANDWIDTH

4.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

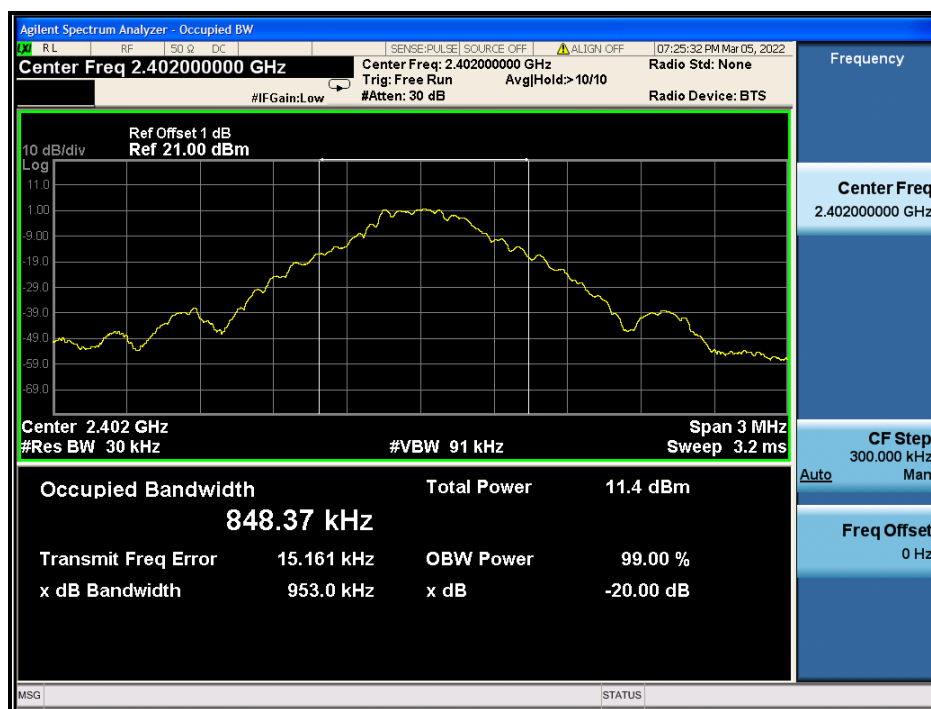
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.5.7 TEST RESULTS

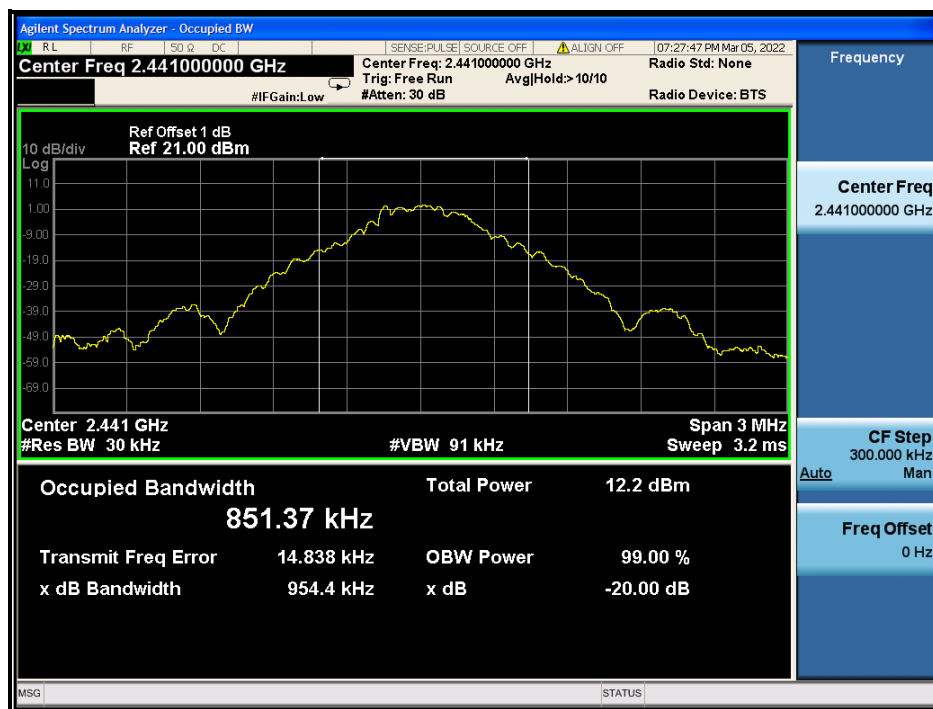
GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	0.9530
39	2441	0.9544
78	2480	0.9527

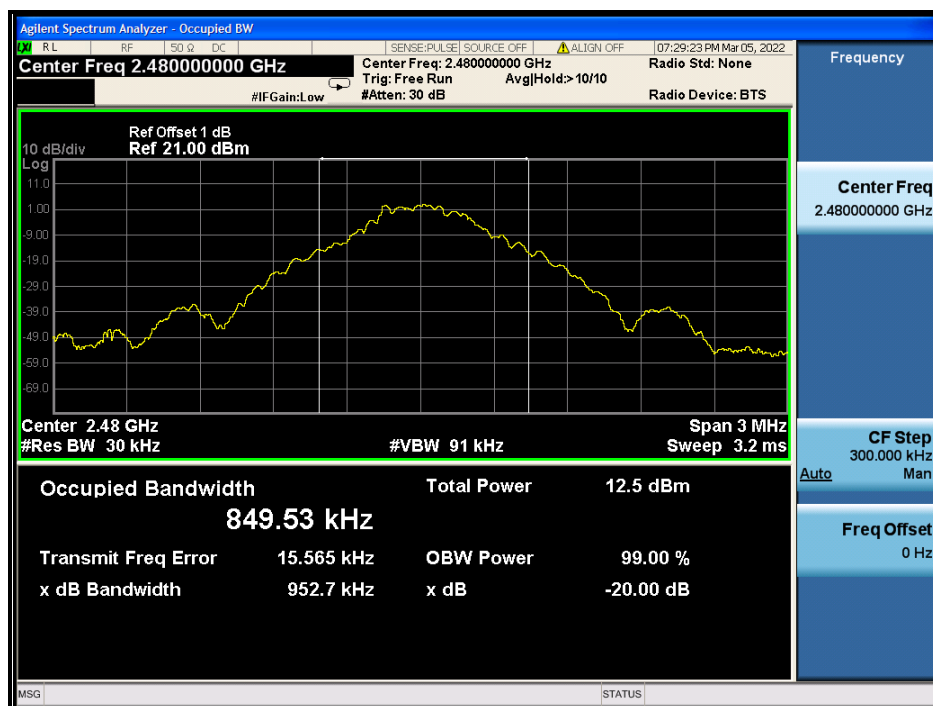
CH 0



CH 39



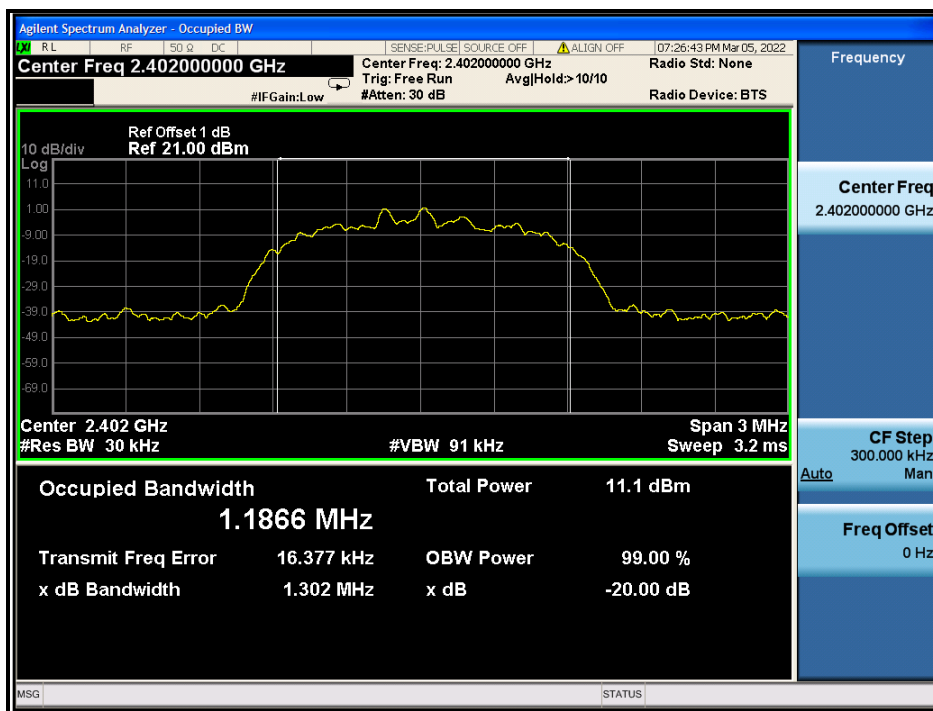
CH 78



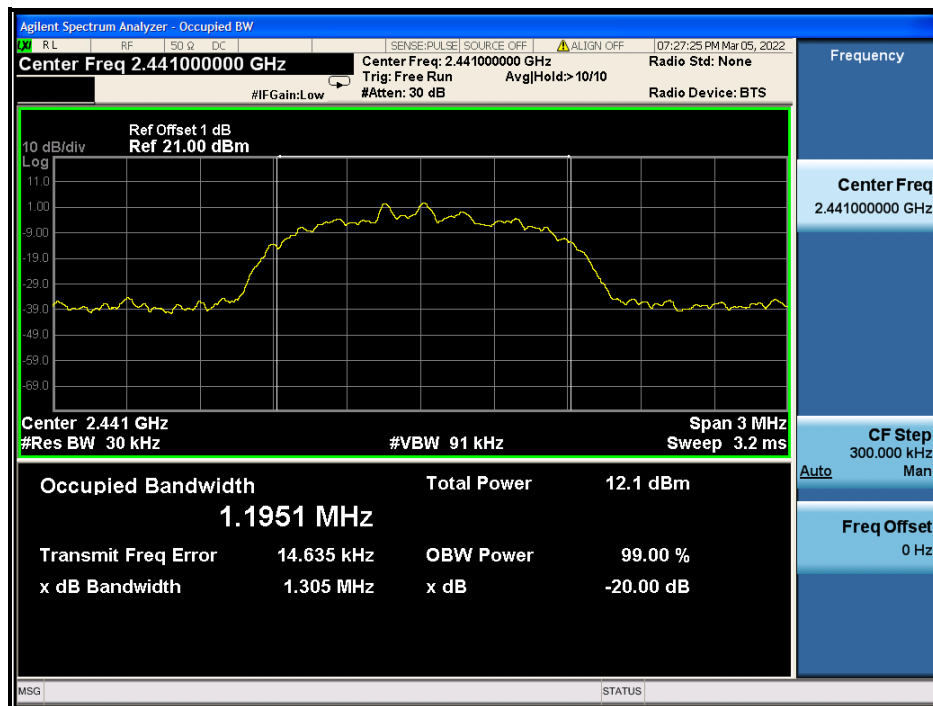
8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	1.302
39	2441	1.305
78	2480	1.304

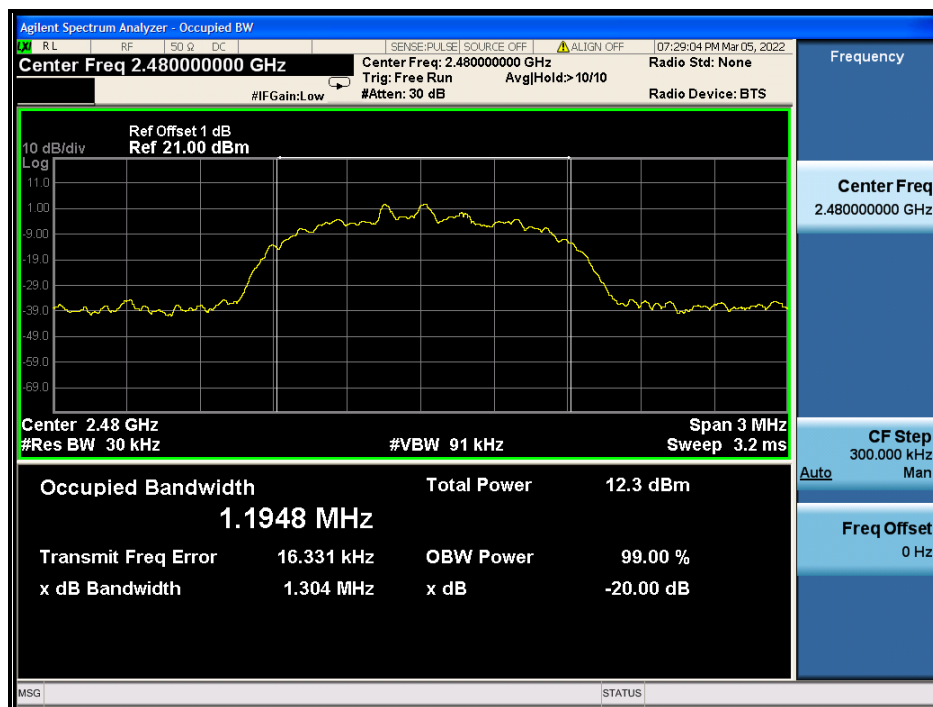
CH 0



CH 39



CH 78

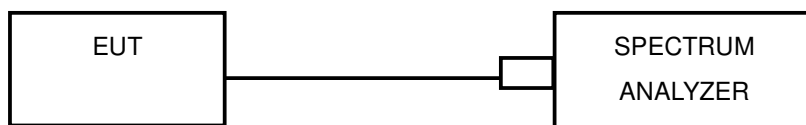


4.6 HOPPING CHANNEL SEPARATION

4.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.6.4 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

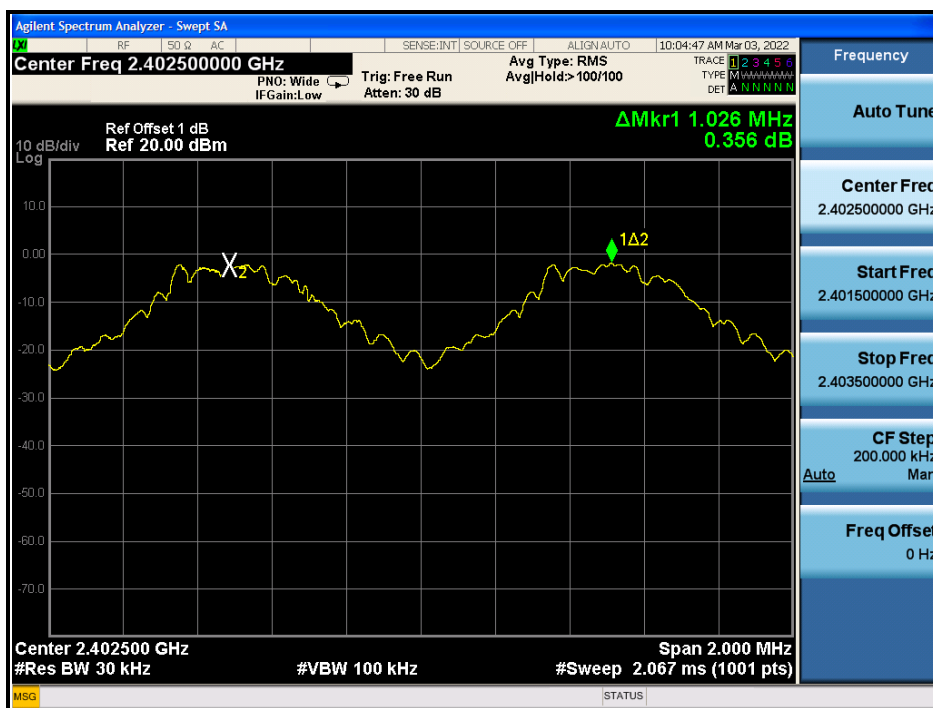
4.6.6 TEST RESULTS

GFSK

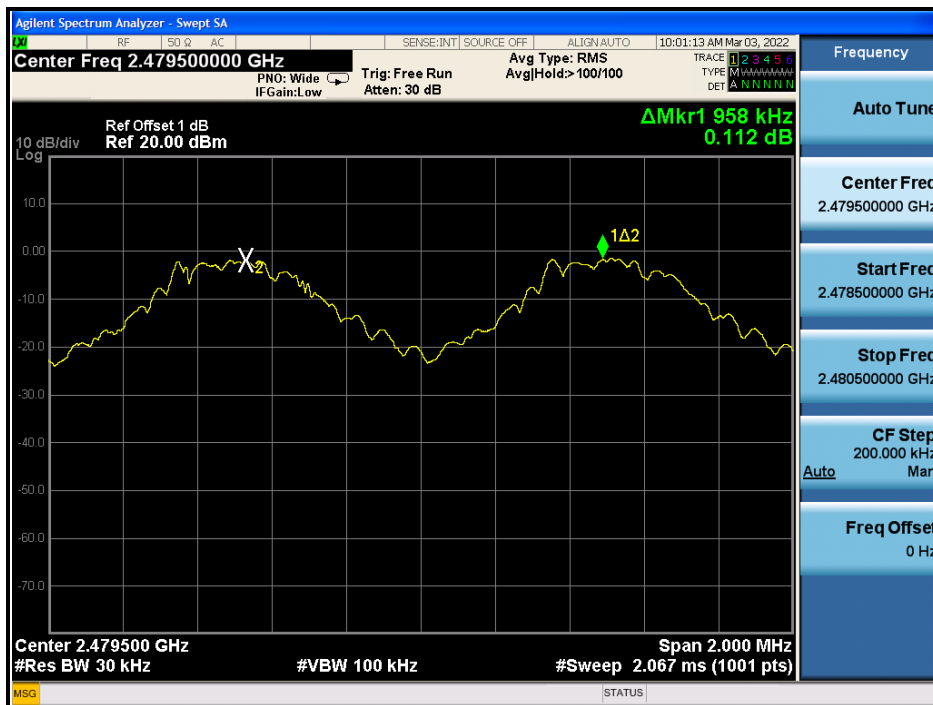
CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.026	0.9530	0.6353	PASS
78	2480	0.958	0.9527	0.6386	PASS

NOTE: The minimum limit is two-third 20dB bandwidth.

CH 0



CH 78

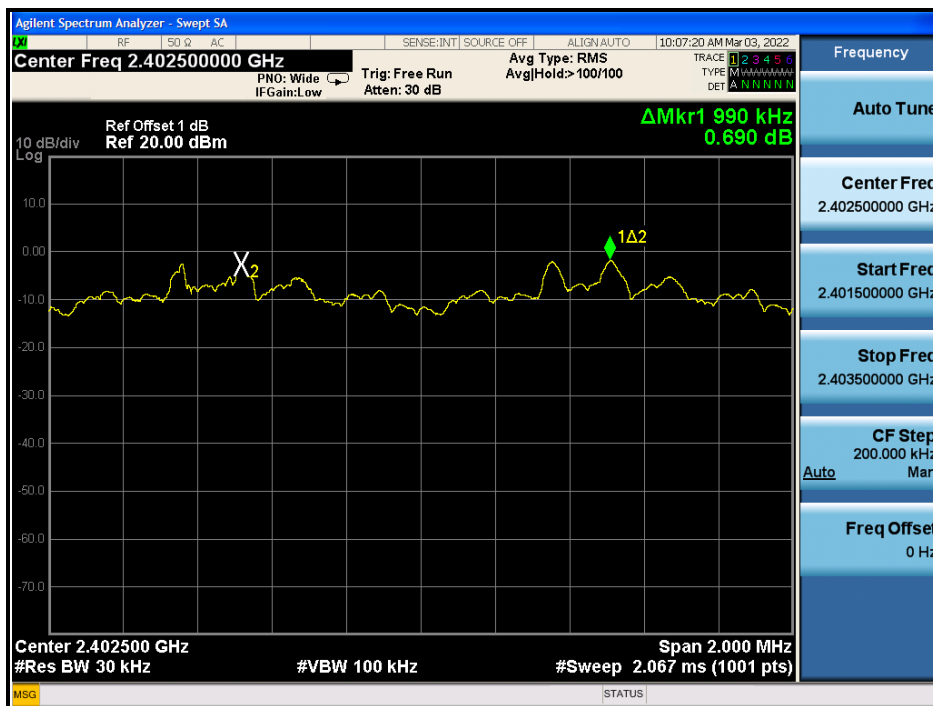


8DPSK

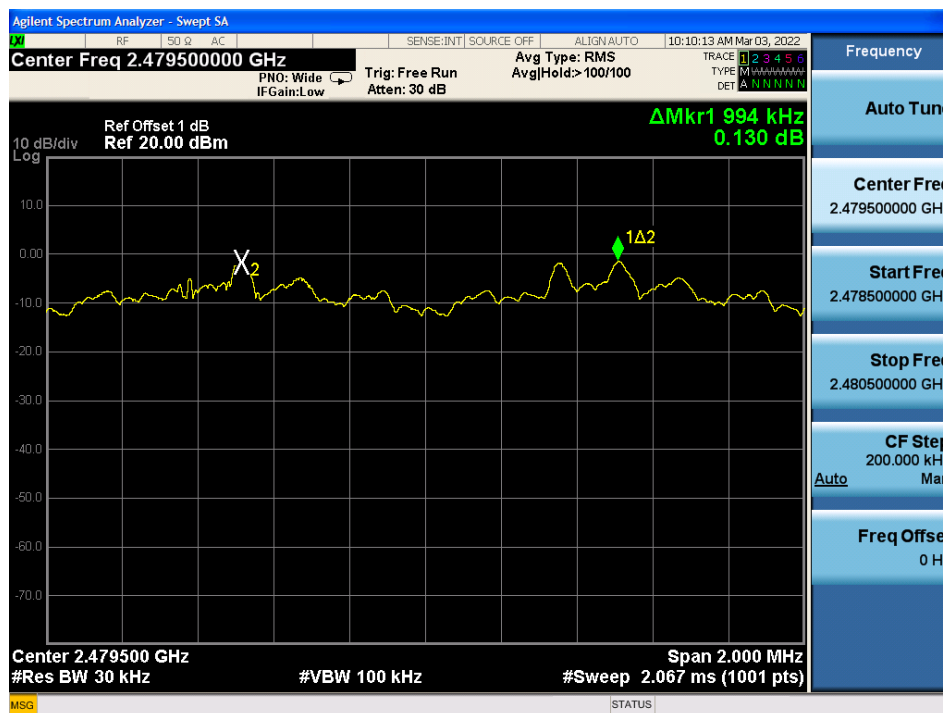
CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.990	1.3020	0.8680	PASS
78	2480	0.994	1.3040	0.8693	PASS

NOTE: The minimum limit is two-third 20dB bandwidth.

CH 0



CH 78

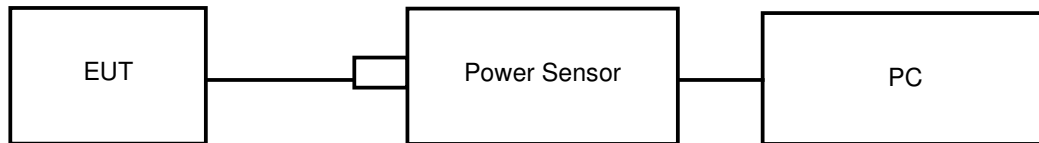


4.7 CONDUCTED OUTPUT POWER

4.7.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 0.125W.

4.7.2 TEST SETUP



4.7.3 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.7.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. The software Power Analyzer is run on the PC to read the response of the peak Power sensor and set the detector to peak. Record the power level.

An average power sensor was used on the output port of the EUT. The software Power Analyzer is run on the PC to read the response of the peak Power sensor and set the detector to AVERAGE. Record the power level.

4.7.5 DEVIATION FROM TEST STANDARD

No deviation.

4.7.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 TEST RESULTS

MAXIMUM PEAK OUTPUT POWER

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	4.09	2.564	0.125	PASS
39	2441	4.88	3.076	0.125	PASS
78	2480	5.55	3.589	0.125	PASS

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	4.52	2.831	0.125	PASS
39	2441	5.43	3.491	0.125	PASS
78	2480	5.89	3.882	0.125	PASS

AVERAGE OUTPUT POWER(FOR REFERENCE)

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)
0	2402	2.23	1.671
39	2441	3.09	2.037
78	2480	3.98	2.500

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)
0	2402	0.82	1.207
39	2441	1.92	1.556
78	2480	2.74	1.879

4.8 OUT OF BAND EMISSION MEASUREMENT

4.8.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

4.8.2 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. of Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation.

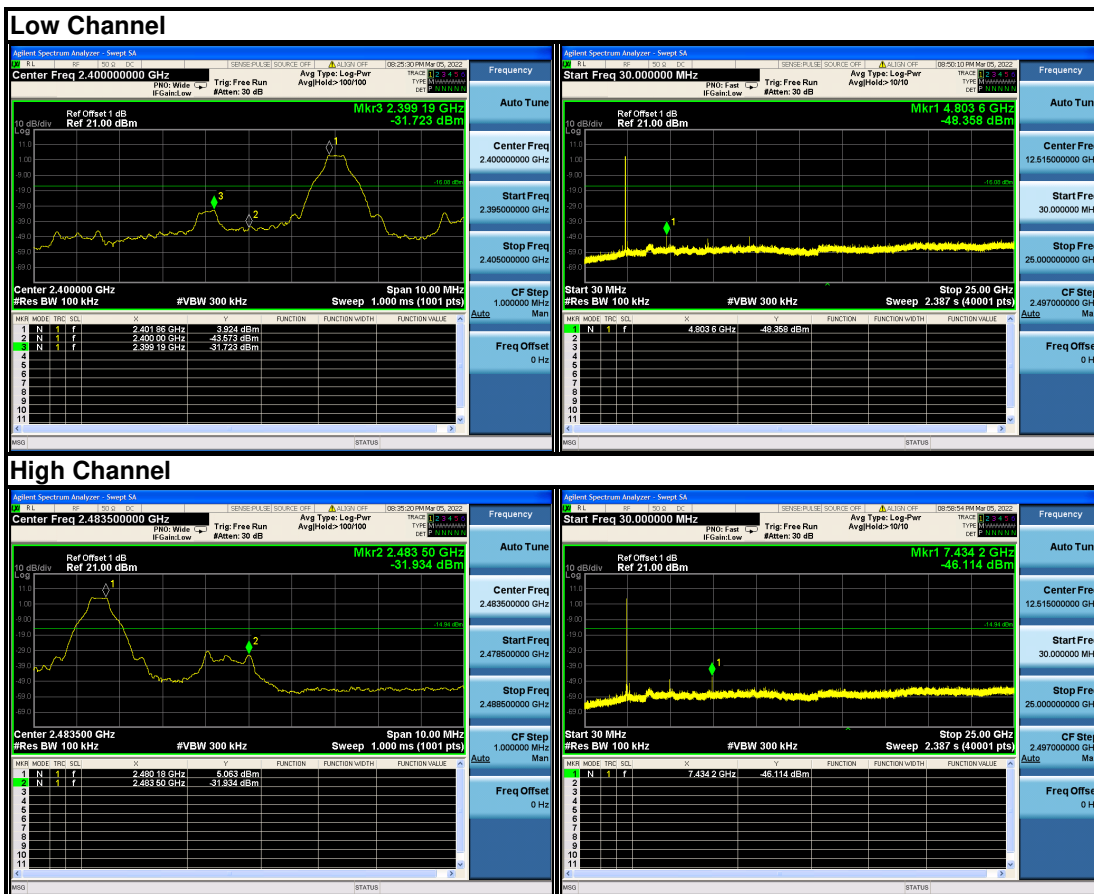
4.8.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

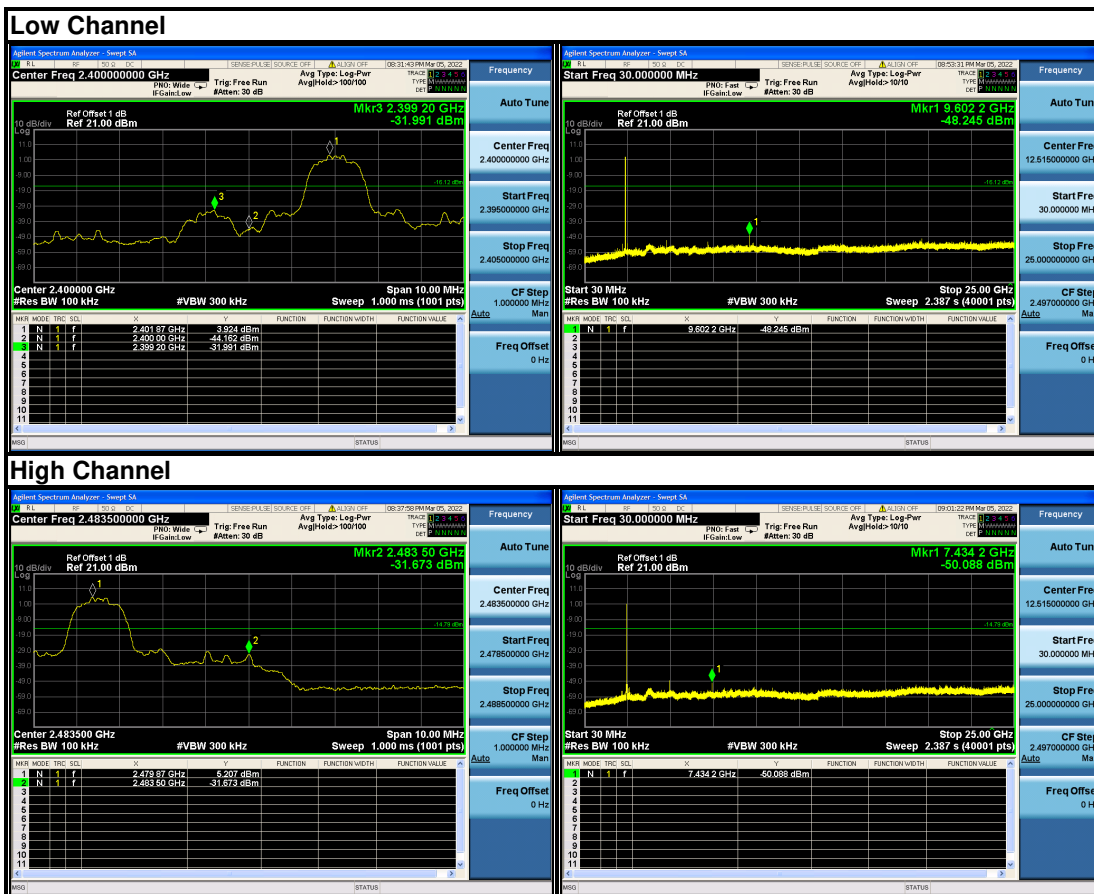
4.8.6 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

GFSK

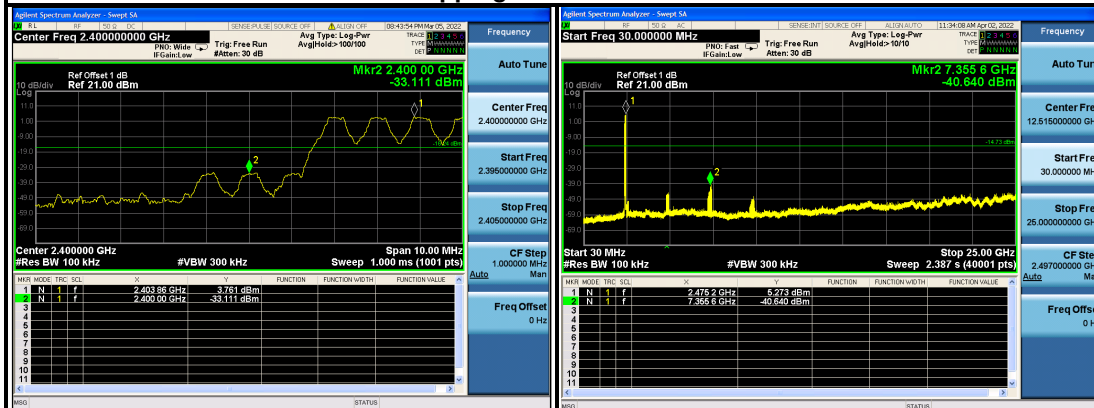


8DPSK

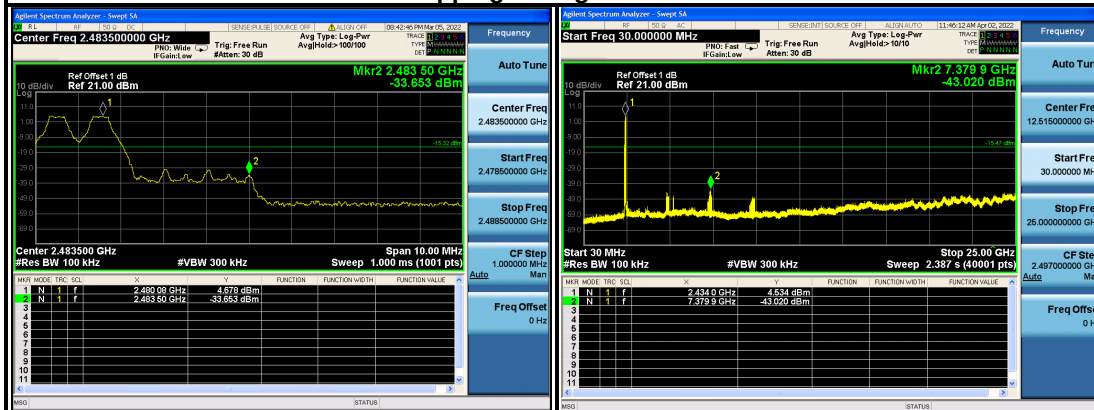


GFSK

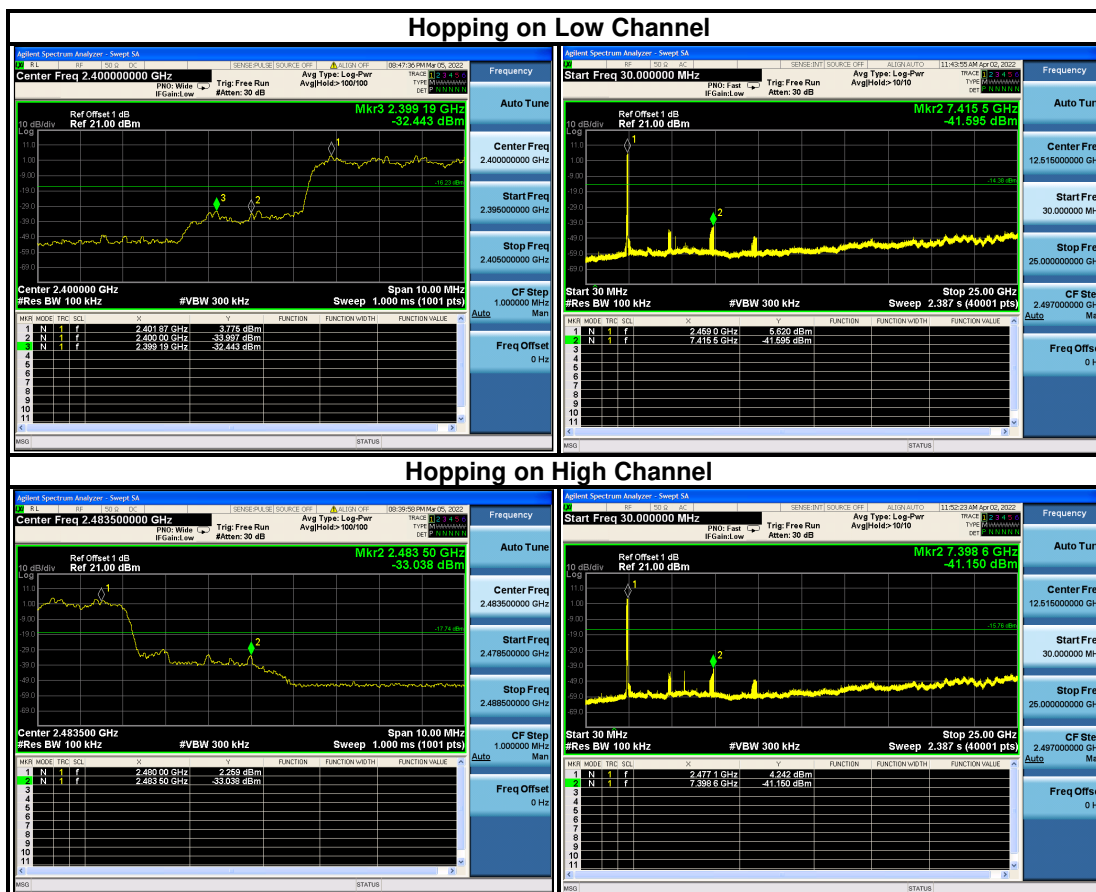
Hopping on Low Channel



Hopping on High Channel



8DPSK





Test Report No.: RF2201WDG0154



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---