FCC Part 15CTest Report
FCC ID:2BQIA-SYLVIE

Report Number.....:	**ZKT-2606151088E**
Date of Test.....	Jun. 15, 2026 - Jul. 08, 2026
Date of issue.....:	Jul. 08, 2026
Total number of pages.....	64
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 .....:	**Dongguan Yutai Electronics Co., Ltd.**
Address ..... :	Room 1802, Building N6, Tianan Cyber City, Fenggang Town, Dongguan City, Guangdong Province
Manufacturer's name .....:	**Dongguan Yutai Electronics Co., Ltd.**
Address ..... :	Room 1802, Building N6, Tianan Cyber City, Fenggang Town, Dongguan City, Guangdong Province
Test specification:	
Standard.....:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
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..... :	**Kinera Sylvie**
Trademark .....:	Kinera
Model/Type reference..... :	Kinera -Kinera Sylvie Kinera Sylvie Midnight Blue Kinera Sylvie Champagne Ivory
Ratings..... :	5 V ⎓ 0.5A Li-ion Battery: 3.7 V⎓35mAh,0.1295Wh(Earphone) Li-ion Battery: 3.7 V⎓400mAh,1.48Wh(Charging Box)

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).....:	Jim Liu
Reviewer (name + signature)..... :	Jackson Fang
Approved (name + signature)..... :	Lake Xie

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1. VERSION

Report No.	Version	Description	Approved
ZKT-2606151088E	Rev.01	Initial issue of report	Jul. 08, 2026

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 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: 927491
Designation Number: CN1431
IC Registered No.: 27033
CAB identifier: CN0110

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=1.8dB
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:	Kinera Sylvie
Model No.:	Kinera -Kinera Sylvie Kinera Sylvie Midnight Blue Kinera Sylvie Champagne Ivory
Model Different.:	all the models are electrically identical, including the same software parameters and the same hardware design except for the PCB layout difference between the left and right earbuds. Both earbuds use the same RF module/circuit, antenna type(s), antenna location, key RF components and electrical characteristics. Both earbuds have been evaluated during testing, and the worst-case test data reported in the test report were selected from the left or right earbud, the reported worst-case test data are from the left earbud. The mechanical structure and design (including product enclosure, materials, etc.) are the same. The only differences among the models are the model name and the color of the outer shell.
Sample(s) Status:	Engineer sample
Channel numbers:	79
Operation Frequency:	2402MHz~2480MHz
Modulation technology:	GFSK, π/4-DQPSK
Antenna Type:	PCB Antenna
Antenna gain:	1.7 dBi
Power Supply:	5 V ⎓ 0.5A Li-ion Battery: 3.7 V⎓35mAh,0.1295Wh(Earphone) Li-ion Battery: 3.7 V⎓400mAh,1.48Wh(Charging Box)

Note1: For a more detailed features description, please refer to the manufacturer’s specifications or the User's Manual.

Note2: The EUT's all information provided by client.

Note3: All models have been tested. Only the worst-case model is displayed: Kinera -Kinera Sylvie

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:

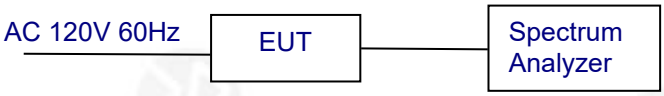
Test channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

3.2 Test Setup Configuration

Conducted Emission

Radiated Emission

Conducted Spurious



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	Kinera Sylvie	N/A	Kinera -Kinera Sylvie	N/A	EUT
A1	AC/DC adapter	N/A	H6157-W1	N/A	Auxiliary
A2	USB line	N/A	ZKT-A2	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	BT Test Tool
Power level setup	7dBm

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May 22, 2026	May 21, 2027
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May 25, 2026	May 24, 2027
12	Test Cable	N/A	R-02	N/A	N/A	May 25, 2026	May 24, 2027
13	Test Cable	N/A	R-03	N/A	N/A	May 26, 2026	May 25, 2027
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\

RF Conducted Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	N/A	RF-01	N/A	N/A	May 25, 2026	May 24, 2027
4	Test Cable	N/A	RF-02	N/A	N/A	May 25, 2026	May 24, 2027
5	Test Cable	N/A	RF-03	N/A	N/A	May 25, 2026	May 24, 2027
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344/M-1752	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
11	MWRF Power Meter Test system	MW	MW100-RFCB	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
12	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
13	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\

4. EMC EMISSION TEST

4.1 Conducted emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
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.

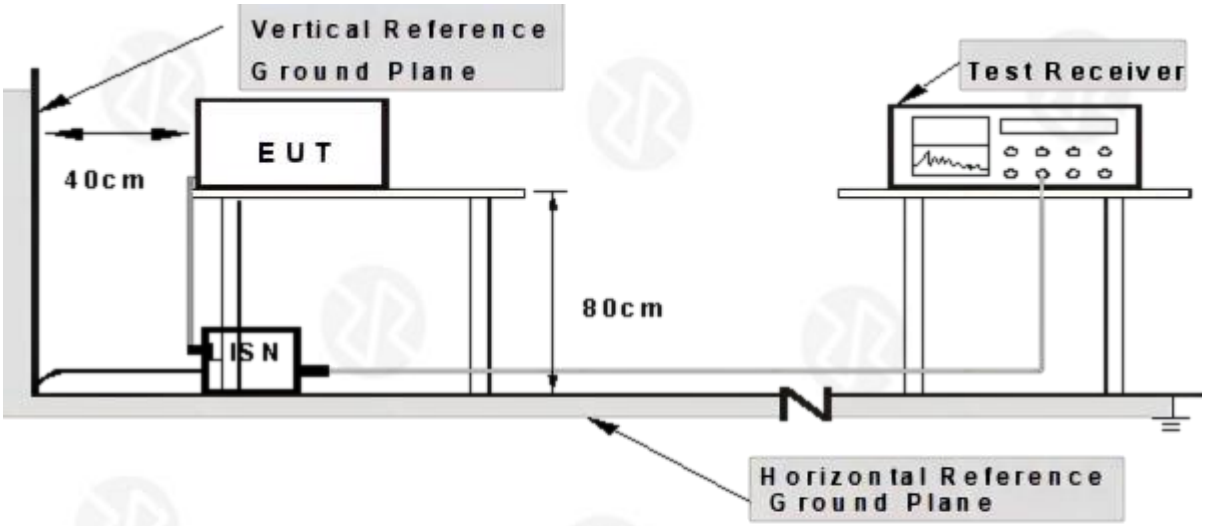
4.1.2 TEST PROCEDURE

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



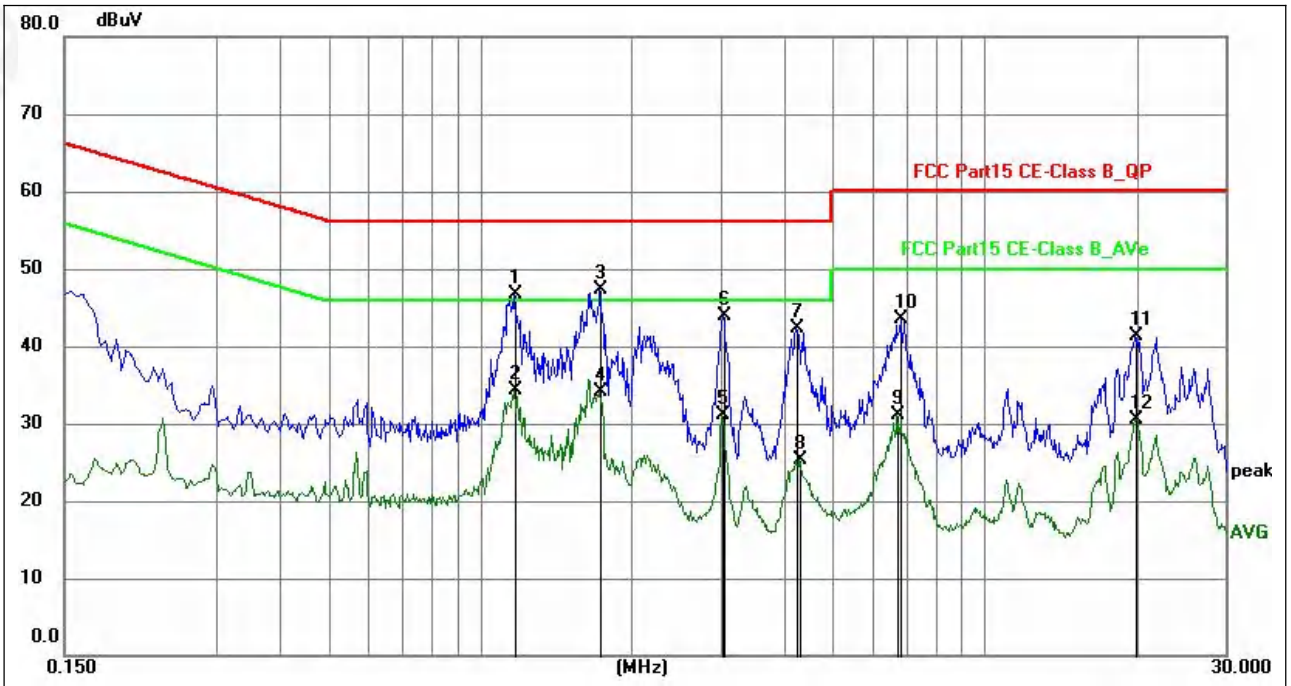
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

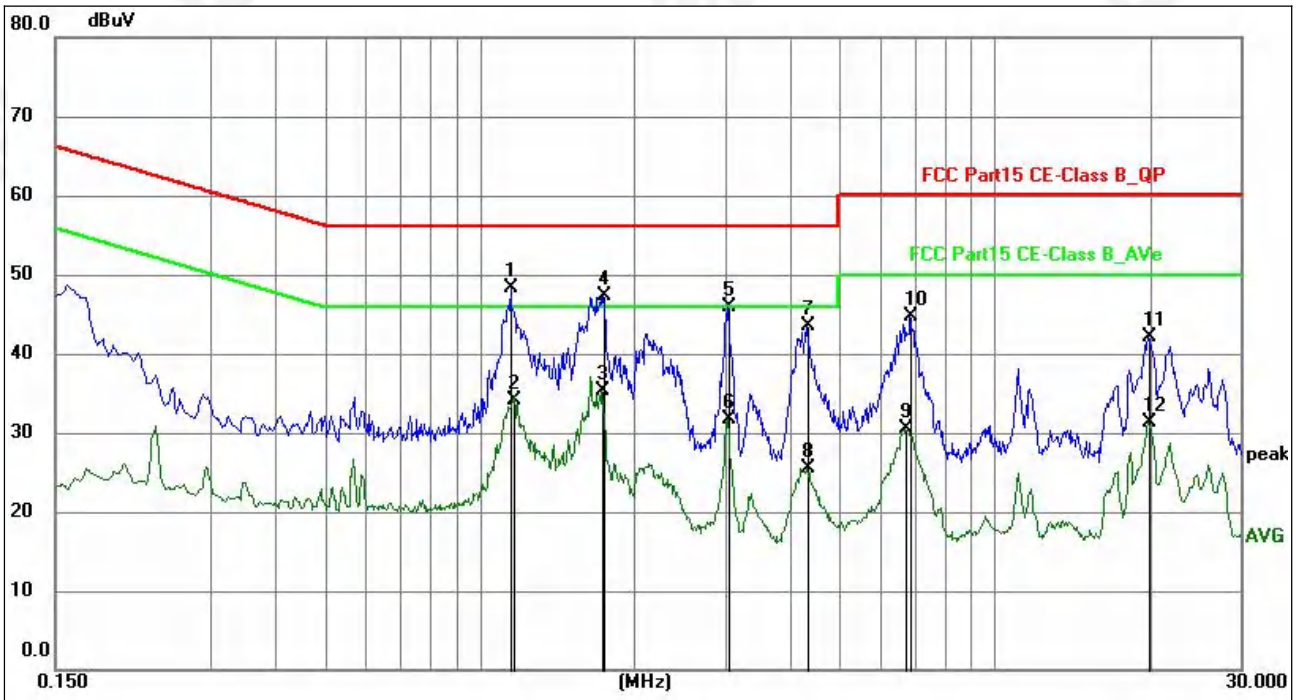
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Model:	GFSK 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	1.1670	27.00	19.66	46.66	56.00	-9.34	QP	P
2	1.1670	14.67	19.66	34.33	46.00	-11.67	AVG	P
3	1.7340	27.63	19.67	47.30	56.00	-8.70	QP	P
4	1.7340	14.34	19.67	34.01	46.00	-11.99	AVG	P
5	3.0210	11.37	19.70	31.07	46.00	-14.93	AVG	P
6	3.0300	24.30	19.70	44.00	56.00	-12.00	QP	P
7	4.2270	22.57	19.71	42.28	56.00	-13.72	QP	P
8	4.2945	5.66	19.71	25.37	46.00	-20.63	AVG	P
9	6.7200	11.34	19.73	31.07	50.00	-18.93	AVG	P
10	6.8280	23.70	19.73	43.43	60.00	-16.57	QP	P
11	19.9410	21.50	19.80	41.30	60.00	-18.70	QP	P
12	19.9410	10.73	19.80	30.53	50.00	-19.47	AVG	P

Notes: All modes are tested. The report only shows data from the worst mode.
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.Mesurement Level = Reading level + Correct Factor

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Model:	GFSK 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	1.1490	28.62	19.65	48.27	56.00	-7.73	QP	P
2	1.1625	14.39	19.65	34.04	46.00	-11.96	AVG	P
3	1.7340	15.56	19.66	35.22	46.00	-10.78	AVG	P
4	1.7385	27.70	19.66	47.36	56.00	-8.64	QP	P
5	3.0255	26.16	19.68	45.84	56.00	-10.16	QP	P
6	3.0255	11.95	19.68	31.63	46.00	-14.37	AVG	P
7	4.3260	23.82	19.69	43.51	56.00	-12.49	QP	P
8	4.3260	5.80	19.69	25.49	46.00	-20.51	AVG	P
9	6.7245	10.87	19.72	30.59	50.00	-19.41	AVG	P
10	6.8685	25.08	19.72	44.80	60.00	-15.20	QP	P
11	19.8779	22.37	19.77	42.14	60.00	-17.86	QP	P
12	19.8779	11.46	19.77	31.23	50.00	-18.77	AVG	P

Notes: All modes are tested. The report only shows data from the worst mode.
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.Mesurement Level = Reading level + Correct Factor

4.2 Radiated emissions

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
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:

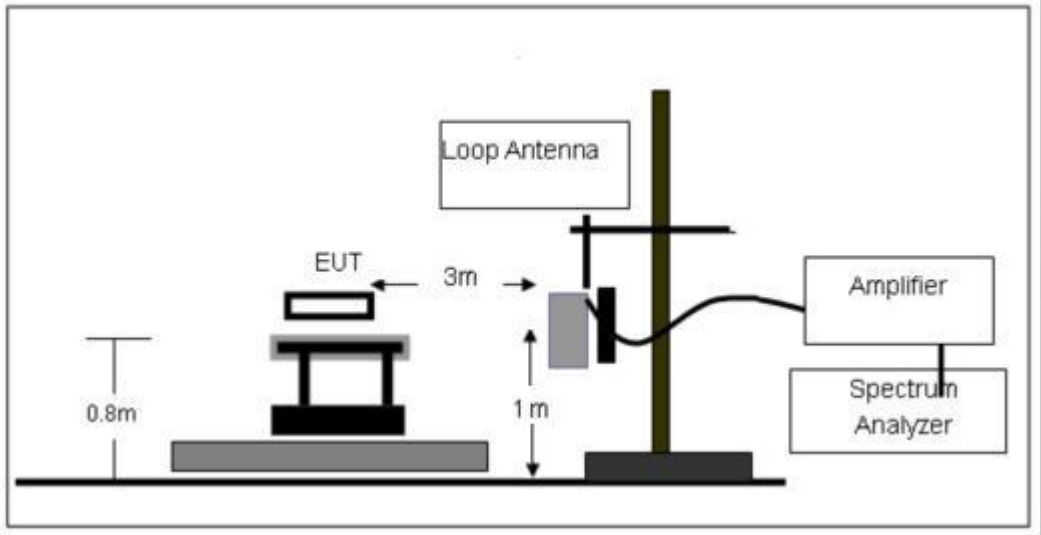
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

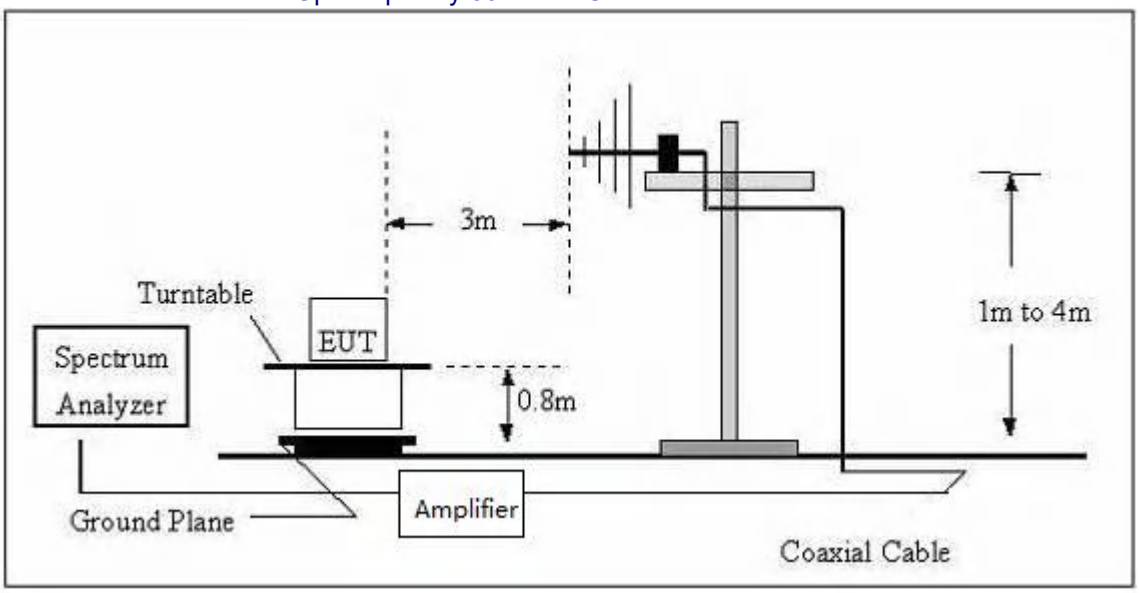
No deviation

4.2.4 TEST SETUP

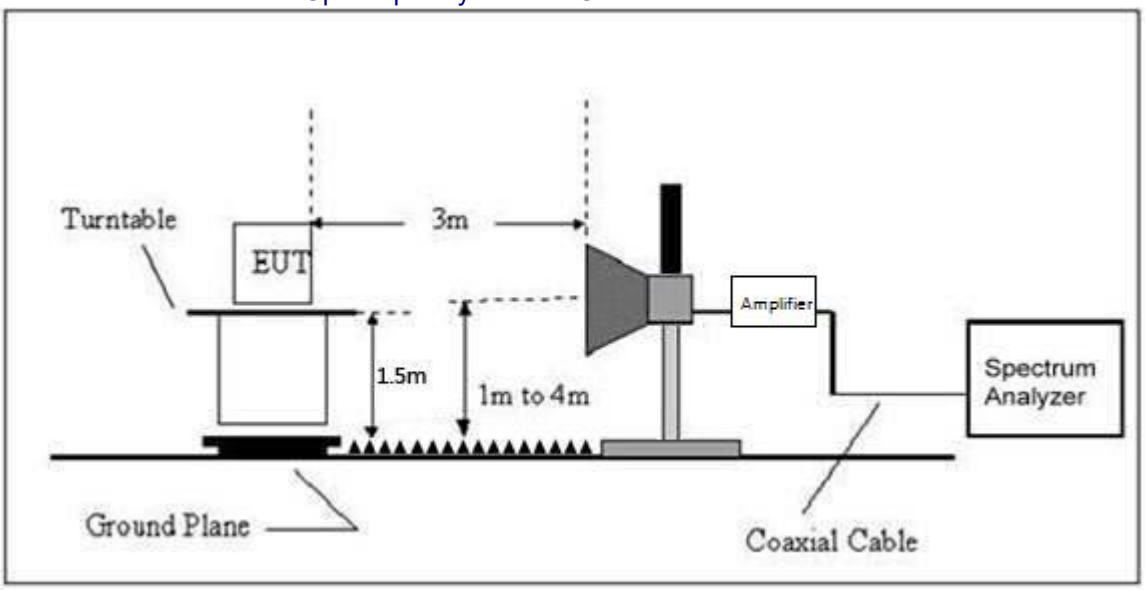
（A）Radiated Emission Test-Up Frequency Below 30MHz



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

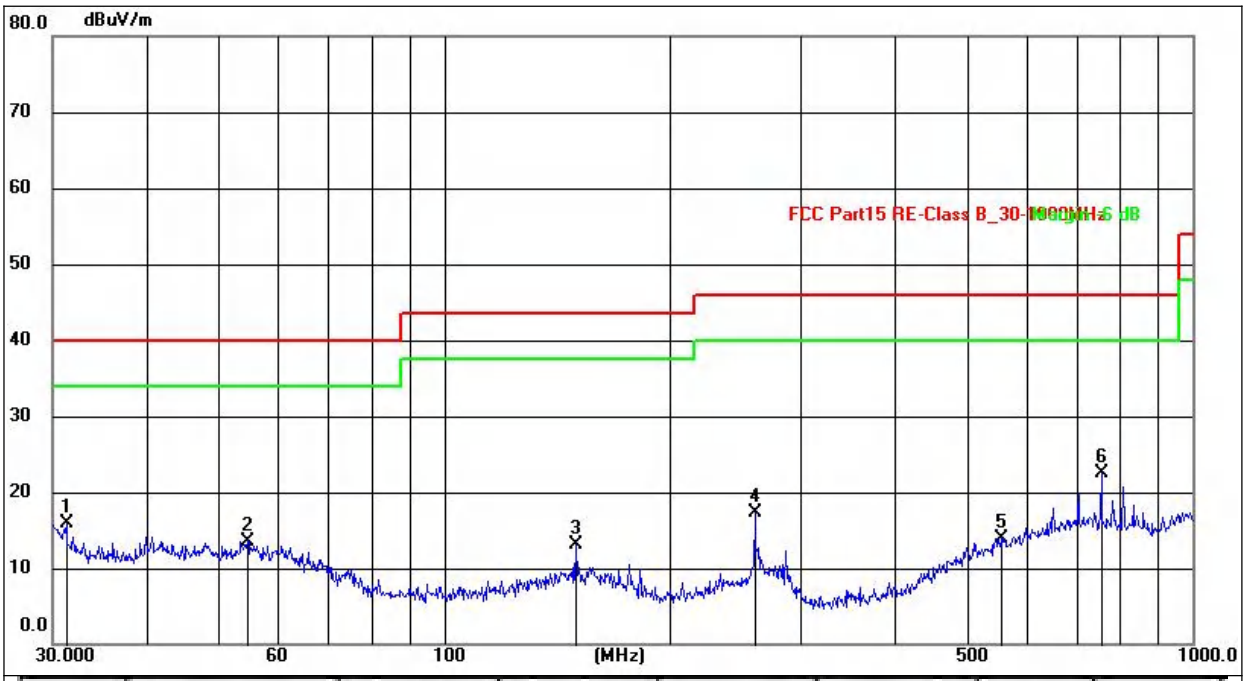
4.2.6 TEST RESULTS

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.

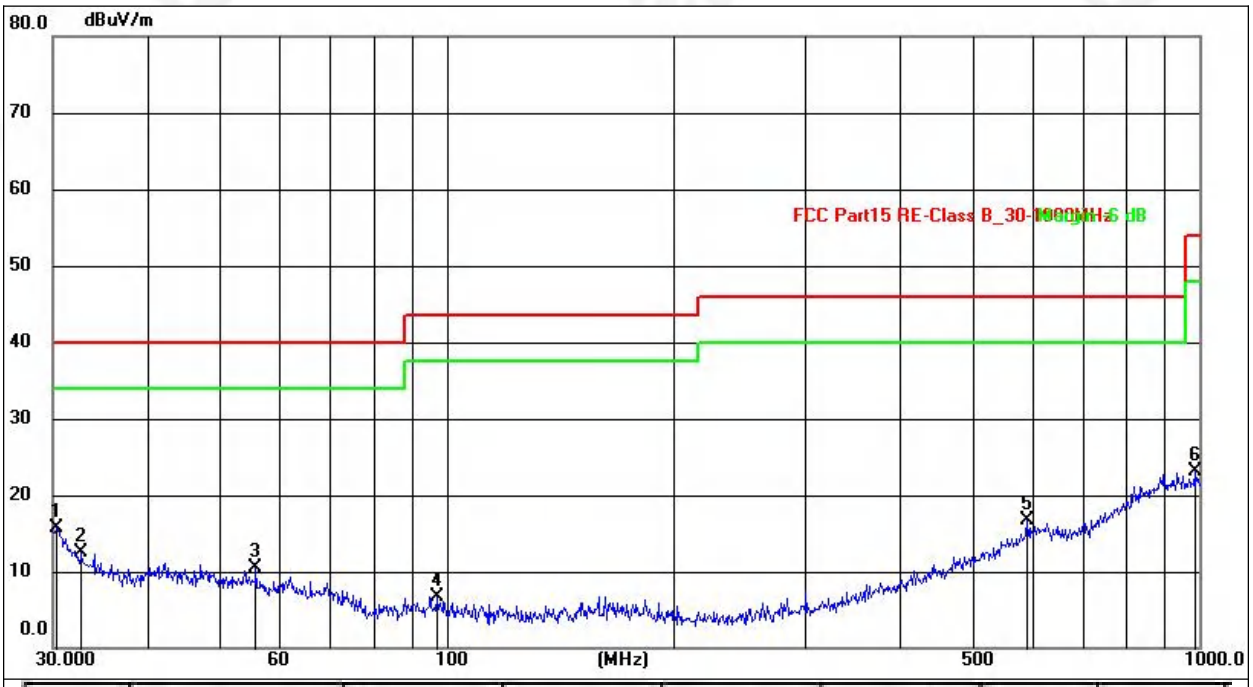
Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Model:	GFSK 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.2892	31.58	-15.61	15.97	40.00	-24.03	QP
2	54.6428	29.06	-15.46	13.60	40.00	-26.40	QP
3	150.0108	32.06	-18.94	13.12	43.50	-30.38	QP
4	260.1444	36.78	-19.55	17.23	46.00	-28.77	QP
5	554.8254	29.34	-15.35	13.99	46.00	-32.01	QP
6	755.3873	35.33	-12.79	22.54	46.00	-23.46	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Model:	GFSK 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.3172	35.33	-19.57	15.76	40.00	-24.24	QP
2	32.7486	31.76	-19.18	12.58	40.00	-27.42	QP
3	55.8047	29.64	-19.22	10.42	40.00	-29.58	QP
4	97.1148	29.64	-22.91	6.73	43.50	-36.77	QP
5	590.9737	30.14	-13.50	16.64	46.00	-29.36	QP
6	986.0716	30.12	-6.92	23.20	54.00	-30.80	QP

Remarks: All operating modes for left and right headphones have been tested. The report displays data only under the worst operating mode.

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
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 2402MHz mode

1GHz~25GHz

Left Earphone

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	54.20	30.55	5.77	24.66	54.08	74.00	-19.92	Pk
V	4804.00	43.98	30.55	5.77	24.66	43.86	54.00	-10.14	AV
V	7206.00	53.15	30.33	6.32	24.55	53.69	74.00	-20.31	Pk
V	7206.00	43.86	30.33	6.32	24.55	44.40	54.00	-9.60	AV
V	9608.00	51.12	30.85	7.45	24.69	52.41	74.00	-21.59	Pk
V	9608.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
V	12010.00	51.14	31.02	8.99	25.57	54.68	74.00	-19.32	Pk
V	12010.00	43.28	31.02	8.99	25.57	46.82	54.00	-7.18	AV
H	4804.00	52.55	30.55	5.77	24.66	52.43	74.00	-21.57	Pk
H	4804.00	43.46	30.55	5.77	24.66	43.34	54.00	-10.66	AV
H	7206.00	51.60	30.33	6.32	24.55	52.14	74.00	-21.86	Pk
H	7206.00	43.73	30.33	6.32	24.55	44.27	54.00	-9.73	AV
H	9608.00	54.61	30.85	7.45	24.69	55.90	74.00	-18.10	Pk
H	9608.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
H	12010.00	53.42	31.02	8.99	25.57	56.96	74.00	-17.04	Pk
H	12010.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	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	51.95	30.55	5.77	24.66	51.83	74.00	-22.17	Pk
V	4882.00	43.16	30.55	5.77	24.66	43.04	54.00	-10.96	AV
V	7323.00	54.53	30.33	6.32	24.55	55.07	74.00	-18.93	Pk
V	7323.00	43.13	30.33	6.32	24.55	43.67	54.00	-10.33	AV
V	9764.00	51.49	30.85	7.45	24.69	52.78	74.00	-21.22	Pk
V	9764.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
V	12205.00	51.20	31.02	8.99	25.57	54.74	74.00	-19.26	Pk
V	12205.00	43.23	31.02	8.99	25.57	46.77	54.00	-7.23	AV
H	4882.00	52.79	30.55	5.77	24.66	52.67	74.00	-21.33	Pk
H	4882.00	43.20	30.55	5.77	24.66	43.08	54.00	-10.92	AV
H	7323.00	52.25	30.33	6.32	24.55	52.79	74.00	-21.21	Pk
H	7323.00	43.67	30.33	6.32	24.55	44.21	54.00	-9.79	AV
H	9764.00	51.88	30.85	7.45	24.69	53.17	74.00	-20.83	Pk
H	9764.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
H	12205.00	51.07	31.02	8.99	25.57	54.61	74.00	-19.39	Pk
H	12205.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	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	52.84	30.55	5.77	24.66	52.72	74.00	-21.28	Pk
V	4960.00	43.06	30.55	5.77	24.66	42.94	54.00	-11.06	AV
V	7440.00	50.60	30.33	6.32	24.55	51.14	74.00	-22.86	Pk
V	7440.00	43.91	30.33	6.32	24.55	44.45	54.00	-9.55	AV
V	9920.00	52.05	30.85	7.45	24.69	53.34	74.00	-20.66	Pk
V	9920.00	43.63	30.85	7.45	24.69	44.92	54.00	-9.08	AV
V	12400.00	54.01	31.02	8.99	25.57	57.55	74.00	-16.45	Pk
V	12400.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV
H	4960.00	54.86	30.55	5.77	24.66	54.74	74.00	-19.26	Pk
H	4960.00	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
H	7440.00	52.66	30.33	6.32	24.55	53.20	74.00	-20.80	Pk
H	7440.00	43.79	30.33	6.32	24.55	44.33	54.00	-9.67	AV
H	9920.00	54.24	30.85	7.45	24.69	55.53	74.00	-18.47	Pk
H	9920.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
H	12400.00	52.83	31.02	8.99	25.57	56.37	74.00	-17.63	Pk
H	12400.00	43.95	31.02	8.99	25.57	47.49	54.00	-6.51	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	51.83	30.55	5.77	24.66	51.71	74.00	-22.29	Pk
V	4804.00	43.83	30.55	5.77	24.66	43.71	54.00	-10.29	AV
V	7206.00	53.90	30.33	6.32	24.55	54.44	74.00	-19.56	Pk
V	7206.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	9608.00	52.02	30.85	7.45	24.69	53.31	74.00	-20.69	Pk
V	9608.00	43.68	30.85	7.45	24.69	44.97	54.00	-9.03	AV
V	12010.00	52.48	31.02	8.99	25.57	56.02	74.00	-17.98	Pk
V	12010.00	43.61	31.02	8.99	25.57	47.15	54.00	-6.85	AV
H	4804.00	53.54	30.55	5.77	24.66	53.42	74.00	-20.58	Pk
H	4804.00	43.68	30.55	5.77	24.66	43.56	54.00	-10.44	AV
H	7206.00	51.98	30.33	6.32	24.55	52.52	74.00	-21.48	Pk
H	7206.00	43.28	30.33	6.32	24.55	43.82	54.00	-10.18	AV
H	9608.00	54.69	30.85	7.45	24.69	55.98	74.00	-18.02	Pk
H	9608.00	43.83	30.85	7.45	24.69	45.12	54.00	-8.88	AV
H	12010.00	51.70	31.02	8.99	25.57	55.24	74.00	-18.76	Pk
H	12010.00	43.69	31.02	8.99	25.57	47.23	54.00	-6.77	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	52.03	30.55	5.77	24.66	51.91	74.00	-22.09	Pk
V	4882.00	43.60	30.55	5.77	24.66	43.48	54.00	-10.52	AV
V	7323.00	52.52	30.33	6.32	24.55	53.06	74.00	-20.94	Pk
V	7323.00	43.37	30.33	6.32	24.55	43.91	54.00	-10.09	AV
V	9764.00	50.42	30.85	7.45	24.69	51.71	74.00	-22.29	Pk
V	9764.00	43.01	30.85	7.45	24.69	44.30	54.00	-9.70	AV
V	12205.00	52.49	31.02	8.99	25.57	56.03	74.00	-17.97	Pk
V	12205.00	43.67	31.02	8.99	25.57	47.21	54.00	-6.79	AV
H	4882.00	52.72	30.55	5.77	24.66	52.60	74.00	-21.40	Pk
H	4882.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
H	7323.00	52.44	30.33	6.32	24.55	52.98	74.00	-21.02	Pk
H	7323.00	43.53	30.33	6.32	24.55	44.07	54.00	-9.93	AV
H	9764.00	52.40	30.85	7.45	24.69	53.69	74.00	-20.31	Pk
H	9764.00	43.75	30.85	7.45	24.69	45.04	54.00	-8.96	AV
H	12205.00	52.60	31.02	8.99	25.57	56.14	74.00	-17.86	Pk
H	12205.00	43.71	31.02	8.99	25.57	47.25	54.00	-6.75	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	54.57	30.55	5.77	24.66	54.45	74.00	-19.55	Pk
V	4960.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
V	7440.00	51.54	30.33	6.32	24.55	52.08	74.00	-21.92	Pk
V	7440.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
V	9920.00	53.93	30.85	7.45	24.69	55.22	74.00	-18.78	Pk
V	9920.00	43.05	30.85	7.45	24.69	44.34	54.00	-9.66	AV
V	12400.00	51.46	31.02	8.99	25.57	55.00	74.00	-19.00	Pk
V	12400.00	43.81	31.02	8.99	25.57	47.35	54.00	-6.65	AV
H	4960.00	53.64	30.55	5.77	24.66	53.52	74.00	-20.48	Pk
H	4960.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
H	7440.00	50.07	30.33	6.32	24.55	50.61	74.00	-23.39	Pk
H	7440.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
H	9920.00	53.71	30.85	7.45	24.69	55.00	74.00	-19.00	Pk
H	9920.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
H	12400.00	50.96	31.02	8.99	25.57	54.50	74.00	-19.50	Pk
H	12400.00	43.52	31.02	8.99	25.57	47.06	54.00	-6.94	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.

Right Earphone

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	51.24	30.55	5.77	24.66	51.12	74.00	-22.88	Pk
V	4804.00	43.45	30.55	5.77	24.66	43.33	54.00	-10.67	AV
V	7206.00	53.51	30.33	6.32	24.55	54.05	74.00	-19.95	Pk
V	7206.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
V	9608.00	50.41	30.85	7.45	24.69	51.70	74.00	-22.30	Pk
V	9608.00	43.97	30.85	7.45	24.69	45.26	54.00	-8.74	AV
V	12010.00	54.16	31.02	8.99	25.57	57.70	74.00	-16.30	Pk
V	12010.00	43.79	31.02	8.99	25.57	47.33	54.00	-6.67	AV
H	4804.00	51.59	30.55	5.77	24.66	51.47	74.00	-22.53	Pk
H	4804.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
H	7206.00	53.35	30.33	6.32	24.55	53.89	74.00	-20.11	Pk
H	7206.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
H	9608.00	51.46	30.85	7.45	24.69	52.75	74.00	-21.25	Pk
H	9608.00	43.14	30.85	7.45	24.69	44.43	54.00	-9.57	AV
H	12010.00	54.04	31.02	8.99	25.57	57.58	74.00	-16.42	Pk
H	12010.00	43.09	31.02	8.99	25.57	46.63	54.00	-7.37	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	54.31	30.55	5.77	24.66	54.19	74.00	-19.81	Pk
V	4882.00	43.13	30.55	5.77	24.66	43.01	54.00	-10.99	AV
V	7323.00	53.82	30.33	6.32	24.55	54.36	74.00	-19.64	Pk
V	7323.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	9764.00	53.60	30.85	7.45	24.69	54.89	74.00	-19.11	Pk
V	9764.00	43.11	30.85	7.45	24.69	44.40	54.00	-9.60	AV
V	12205.00	54.96	31.02	8.99	25.57	58.50	74.00	-15.50	Pk
V	12205.00	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV
H	4882.00	54.24	30.55	5.77	24.66	54.12	74.00	-19.88	Pk
H	4882.00	43.07	30.55	5.77	24.66	42.95	54.00	-11.05	AV
H	7323.00	51.01	30.33	6.32	24.55	51.55	74.00	-22.45	Pk
H	7323.00	43.78	30.33	6.32	24.55	44.32	54.00	-9.68	AV
H	9764.00	54.20	30.85	7.45	24.69	55.49	74.00	-18.51	Pk
H	9764.00	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
H	12205.00	50.69	31.02	8.99	25.57	54.23	74.00	-19.77	Pk
H	12205.00	43.34	31.02	8.99	25.57	46.88	54.00	-7.12	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	53.52	30.55	5.77	24.66	53.40	74.00	-20.60	Pk
V	4960.00	43.41	30.55	5.77	24.66	43.29	54.00	-10.71	AV
V	7440.00	50.31	30.33	6.32	24.55	50.85	74.00	-23.15	Pk
V	7440.00	43.09	30.33	6.32	24.55	43.63	54.00	-10.37	AV
V	9920.00	50.35	30.85	7.45	24.69	51.64	74.00	-22.36	Pk
V	9920.00	43.48	30.85	7.45	24.69	44.77	54.00	-9.23	AV
V	12400.00	54.19	31.02	8.99	25.57	57.73	74.00	-16.27	Pk
V	12400.00	43.27	31.02	8.99	25.57	46.81	54.00	-7.19	AV
H	4960.00	51.80	30.55	5.77	24.66	51.68	74.00	-22.32	Pk
H	4960.00	43.79	30.55	5.77	24.66	43.67	54.00	-10.33	AV
H	7440.00	50.45	30.33	6.32	24.55	50.99	74.00	-23.01	Pk
H	7440.00	43.46	30.33	6.32	24.55	44.00	54.00	-10.00	AV
H	9920.00	52.44	30.85	7.45	24.69	53.73	74.00	-20.27	Pk
H	9920.00	43.92	30.85	7.45	24.69	45.21	54.00	-8.79	AV
H	12400.00	52.79	31.02	8.99	25.57	56.33	74.00	-17.67	Pk
H	12400.00	43.37	31.02	8.99	25.57	46.91	54.00	-7.09	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	53.14	30.55	5.77	24.66	53.02	74.00	-20.98	Pk
V	4804.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
V	7206.00	50.03	30.33	6.32	24.55	50.57	74.00	-23.43	Pk
V	7206.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV
V	9608.00	50.59	30.85	7.45	24.69	51.88	74.00	-22.12	Pk
V	9608.00	43.29	30.85	7.45	24.69	44.58	54.00	-9.42	AV
V	12010.00	51.83	31.02	8.99	25.57	55.37	74.00	-18.63	Pk
V	12010.00	43.09	31.02	8.99	25.57	46.63	54.00	-7.37	AV
H	4804.00	52.22	30.55	5.77	24.66	52.10	74.00	-21.90	Pk
H	4804.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
H	7206.00	51.94	30.33	6.32	24.55	52.48	74.00	-21.52	Pk
H	7206.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
H	9608.00	53.91	30.85	7.45	24.69	55.20	74.00	-18.80	Pk
H	9608.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12010.00	50.13	31.02	8.99	25.57	53.67	74.00	-20.33	Pk
H	12010.00	43.66	31.02	8.99	25.57	47.20	54.00	-6.80	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	50.27	30.55	5.77	24.66	50.15	74.00	-23.85	Pk
V	4882.00	43.20	30.55	5.77	24.66	43.08	54.00	-10.92	AV
V	7323.00	53.82	30.33	6.32	24.55	54.36	74.00	-19.64	Pk
V	7323.00	43.37	30.33	6.32	24.55	43.91	54.00	-10.09	AV
V	9764.00	50.03	30.85	7.45	24.69	51.32	74.00	-22.68	Pk
V	9764.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
V	12205.00	51.23	31.02	8.99	25.57	54.77	74.00	-19.23	Pk
V	12205.00	43.90	31.02	8.99	25.57	47.44	54.00	-6.56	AV
H	4882.00	53.04	30.55	5.77	24.66	52.92	74.00	-21.08	Pk
H	4882.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
H	7323.00	53.30	30.33	6.32	24.55	53.84	74.00	-20.16	Pk
H	7323.00	43.70	30.33	6.32	24.55	44.24	54.00	-9.76	AV
H	9764.00	50.64	30.85	7.45	24.69	51.93	74.00	-22.07	Pk
H	9764.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
H	12205.00	51.63	31.02	8.99	25.57	55.17	74.00	-18.83	Pk
H	12205.00	43.29	31.02	8.99	25.57	46.83	54.00	-7.17	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	51.91	30.55	5.77	24.66	51.79	74.00	-22.21	Pk
V	4960.00	43.70	30.55	5.77	24.66	43.58	54.00	-10.42	AV
V	7440.00	51.73	30.33	6.32	24.55	52.27	74.00	-21.73	Pk
V	7440.00	43.70	30.33	6.32	24.55	44.24	54.00	-9.76	AV
V	9920.00	53.66	30.85	7.45	24.69	54.95	74.00	-19.05	Pk
V	9920.00	43.75	30.85	7.45	24.69	45.04	54.00	-8.96	AV
V	12400.00	52.49	31.02	8.99	25.57	56.03	74.00	-17.97	Pk
V	12400.00	43.53	31.02	8.99	25.57	47.07	54.00	-6.93	AV
H	4960.00	52.95	30.55	5.77	24.66	52.83	74.00	-21.17	Pk
H	4960.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
H	7440.00	51.58	30.33	6.32	24.55	52.12	74.00	-21.88	Pk
H	7440.00	43.33	30.33	6.32	24.55	43.87	54.00	-10.13	AV
H	9920.00	54.52	30.85	7.45	24.69	55.81	74.00	-18.19	Pk
H	9920.00	43.71	30.85	7.45	24.69	45.00	54.00	-9.00	AV
H	12400.00	50.86	31.02	8.99	25.57	54.40	74.00	-19.60	Pk
H	12400.00	43.33	31.02	8.99	25.57	46.87	54.00	-7.13	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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2390MHz 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	2390MHz
Stop Frequency	2500MHz
RB / VB (emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 3MHz 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:

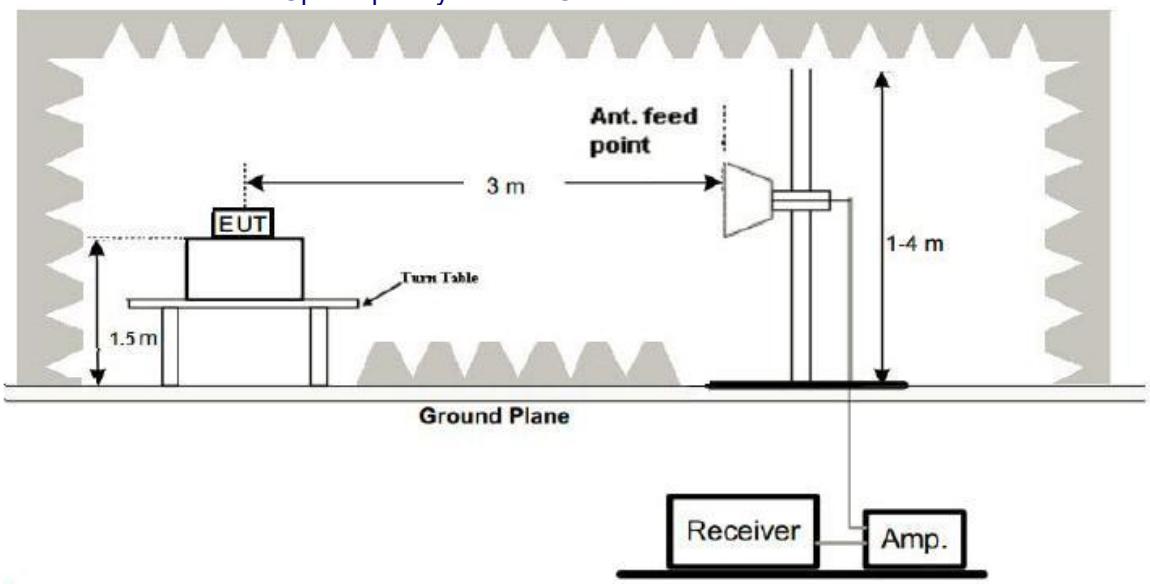
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

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

5.6 TEST RESULT

Left Earphone

	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	2390.00	53.40	30.22	4.85	23.98	52.01	74.00	PK	PASS
	H	2390.00	44.24	30.22	4.85	23.98	42.85	54.00	AV	PASS
	H	2400.00	53.57	30.22	4.85	23.98	52.18	74.00	PK	PASS
	H	2400.00	44.67	30.22	4.85	23.98	43.28	54.00	AV	PASS
	V	2390.00	53.77	30.22	4.85	23.98	52.38	74.00	PK	PASS
	V	2390.00	44.75	30.22	4.85	23.98	43.36	54.00	AV	PASS
	V	2400.00	53.64	30.22	4.85	23.98	52.25	74.00	PK	PASS
	V	2400.00	44.82	30.22	4.85	23.98	43.43	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.27	30.22	4.85	23.98	51.88	74.00	Pk	PASS
	H	2483.50	44.17	30.22	4.85	23.98	42.78	54.00	AV	PASS
	H	2500.00	54.78	30.22	4.85	23.98	53.39	74.00	Pk	PASS
	H	2500.00	44.01	30.22	4.85	23.98	42.62	54.00	AV	PASS
	V	2483.50	53.95	30.22	4.85	23.98	52.56	74.00	Pk	PASS
	V	2483.50	44.19	30.22	4.85	23.98	42.80	54.00	AV	PASS
	V	2500.00	53.08	30.22	4.85	23.98	51.69	74.00	Pk	PASS
	V	2500.00	44.12	30.22	4.85	23.98	42.73	54.00	AV	PASS
π/4-DQPSK	Low Channel: 2402MHz									
	H	2390.00	53.50	30.22	4.85	23.98	52.11	74.00	PK	PASS
	H	2390.00	44.00	30.22	4.85	23.98	42.61	54.00	AV	PASS
	H	2400.00	53.78	30.22	4.85	23.98	52.39	74.00	PK	PASS
	H	2400.00	44.99	30.22	4.85	23.98	43.60	54.00	AV	PASS
	V	2390.00	53.99	30.22	4.85	23.98	52.60	74.00	PK	PASS
	V	2390.00	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	V	2400.00	54.18	30.22	4.85	23.98	52.79	74.00	PK	PASS
	V	2400.00	44.66	30.22	4.85	23.98	43.27	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.99	30.22	4.85	23.98	52.60	74.00	PK	PASS
	H	2483.50	44.35	30.22	4.85	23.98	42.96	54.00	AV	PASS
	H	2500.00	53.24	30.22	4.85	23.98	51.85	74.00	PK	PASS
	H	2500.00	44.99	30.22	4.85	23.98	43.60	54.00	AV	PASS
	V	2483.50	53.50	30.22	4.85	23.98	52.11	74.00	PK	PASS
	V	2483.50	44.48	30.22	4.85	23.98	43.09	54.00	AV	PASS
	V	2500.00	54.51	30.22	4.85	23.98	53.12	74.00	PK	PASS
	V	2500.00	44.71	30.22	4.85	23.98	43.32	54.00	AV	PASS

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

Right Earphone

	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	2390.00	54.53	30.22	4.85	23.98	53.14	74.00	PK	PASS
	H	2390.00	44.07	30.22	4.85	23.98	42.68	54.00	AV	PASS
	H	2400.00	54.60	30.22	4.85	23.98	53.21	74.00	PK	PASS
	H	2400.00	44.77	30.22	4.85	23.98	43.38	54.00	AV	PASS
	V	2390.00	54.23	30.22	4.85	23.98	52.84	74.00	PK	PASS
	V	2390.00	44.63	30.22	4.85	23.98	43.24	54.00	AV	PASS
	V	2400.00	53.49	30.22	4.85	23.98	52.10	74.00	PK	PASS
	V	2400.00	44.23	30.22	4.85	23.98	42.84	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.93	30.22	4.85	23.98	52.54	74.00	Pk	PASS
	H	2483.50	44.86	30.22	4.85	23.98	43.47	54.00	AV	PASS
	H	2500.00	54.70	30.22	4.85	23.98	53.31	74.00	Pk	PASS
	H	2500.00	44.24	30.22	4.85	23.98	42.85	54.00	AV	PASS
	V	2483.50	53.17	30.22	4.85	23.98	51.78	74.00	Pk	PASS
	V	2483.50	44.60	30.22	4.85	23.98	43.21	54.00	AV	PASS
	V	2500.00	53.10	30.22	4.85	23.98	51.71	74.00	Pk	PASS
	V	2500.00	44.05	30.22	4.85	23.98	42.66	54.00	AV	PASS
π/4-DQPSK	Low Channel: 2402MHz									
	H	2390.00	54.60	30.22	4.85	23.98	53.21	74.00	PK	PASS
	H	2390.00	44.15	30.22	4.85	23.98	42.76	54.00	AV	PASS
	H	2400.00	54.51	30.22	4.85	23.98	53.12	74.00	PK	PASS
	H	2400.00	44.20	30.22	4.85	23.98	42.81	54.00	AV	PASS
	V	2390.00	53.58	30.22	4.85	23.98	52.19	74.00	PK	PASS
	V	2390.00	44.82	30.22	4.85	23.98	43.43	54.00	AV	PASS
	V	2400.00	54.17	30.22	4.85	23.98	52.78	74.00	PK	PASS
	V	2400.00	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	High Channel: 2480MHz									
	H	2483.50	53.38	30.22	4.85	23.98	51.99	74.00	PK	PASS
	H	2483.50	44.01	30.22	4.85	23.98	42.62	54.00	AV	PASS
	H	2500.00	54.85	30.22	4.85	23.98	53.46	74.00	PK	PASS
	H	2500.00	44.64	30.22	4.85	23.98	43.25	54.00	AV	PASS
	V	2483.50	54.32	30.22	4.85	23.98	52.93	74.00	PK	PASS
	V	2483.50	44.91	30.22	4.85	23.98	43.52	54.00	AV	PASS
	V	2500.00	53.16	30.22	4.85	23.98	51.77	74.00	PK	PASS
	V	2500.00	44.30	30.22	4.85	23.98	42.91	54.00	AV	PASS

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

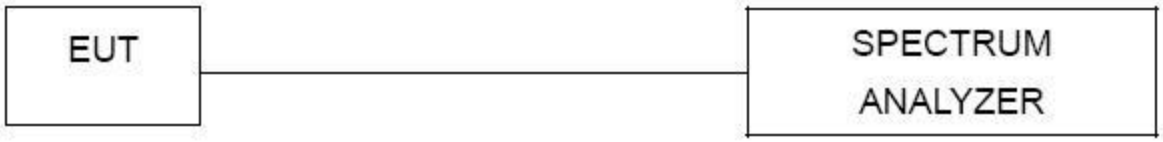
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

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



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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.

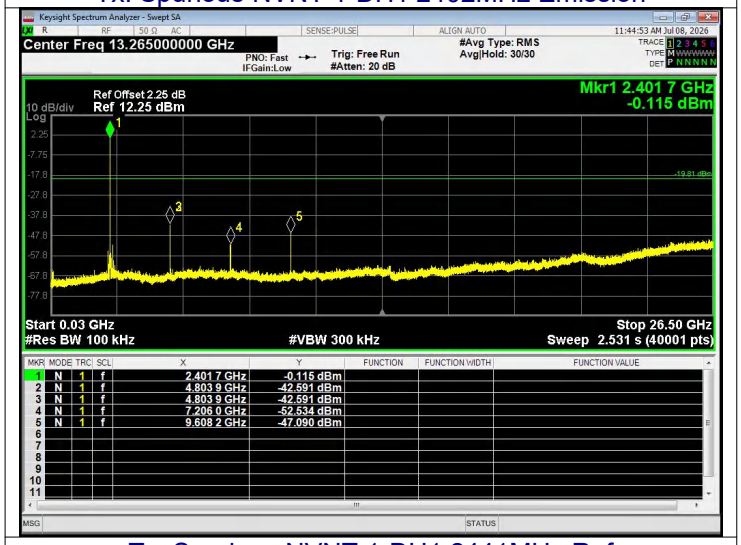
6.4 DEVIATION FROM STANDARD

No deviation.

6.5 Test Result

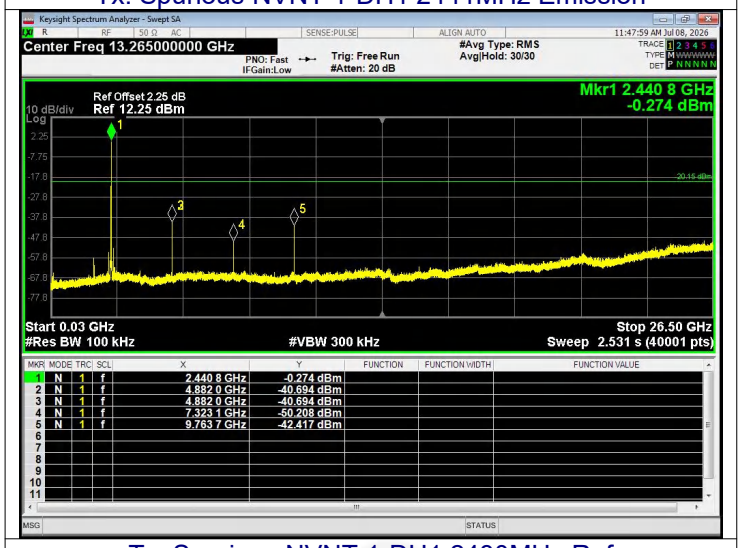
Test Graphs
Tx. Spurious NVNT 1-DH1 2402MHz Ref

Tx. Spurious NVNT 1-DH1 2402MHz Emission



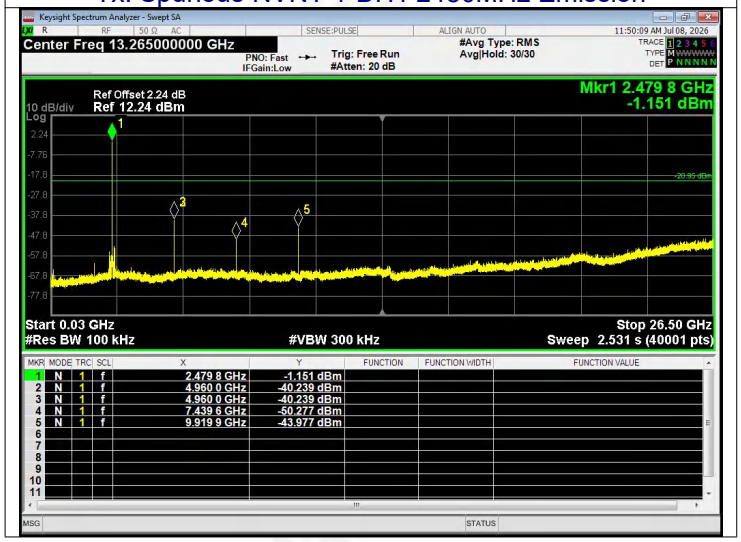
Tx. Spurious NVNT 1-DH1 2441MHz Ref

Tx. Spurious NVNT 1-DH1 2441MHz Emission



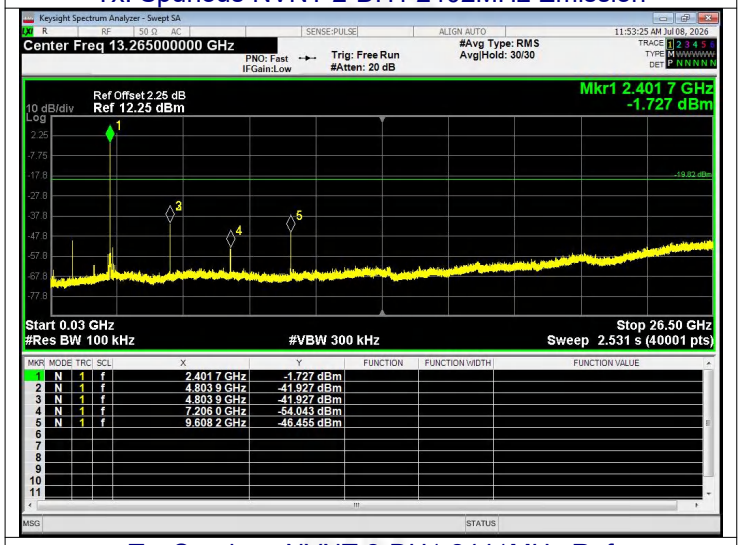
Tx. Spurious NVNT 1-DH1 2480MHz Ref

Tx. Spurious NVNT 1-DH1 2480MHz Emission

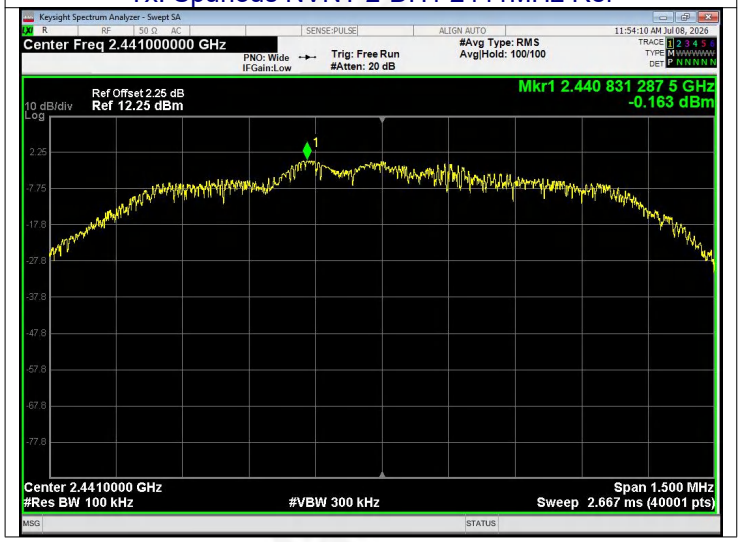


Tx. Spurious NVNT 2-DH1 2402MHz Ref

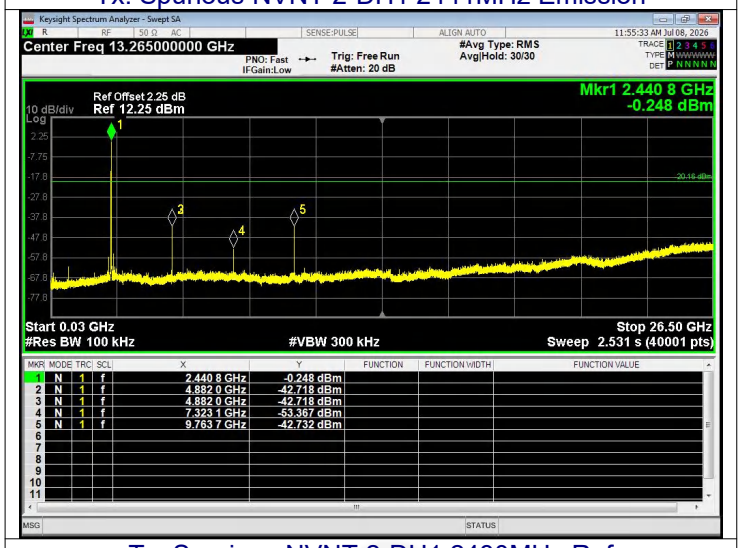
Tx. Spurious NVNT 2-DH1 2402MHz Emission



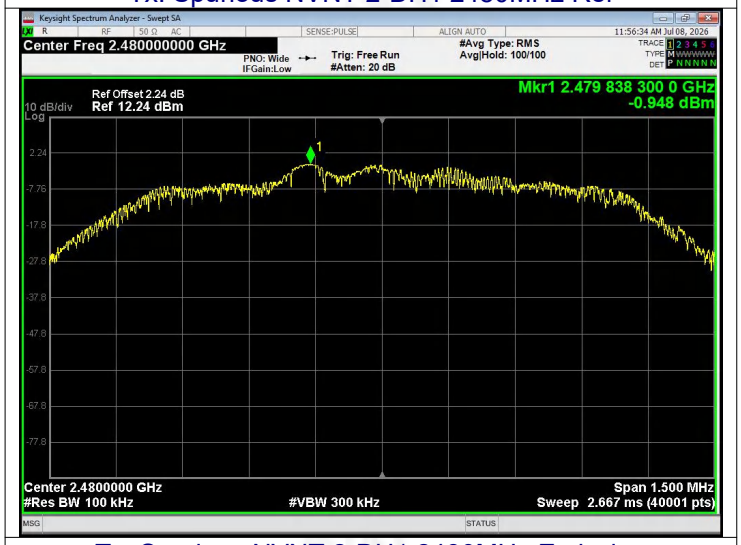
Tx. Spurious NVNT 2-DH1 2441MHz Ref



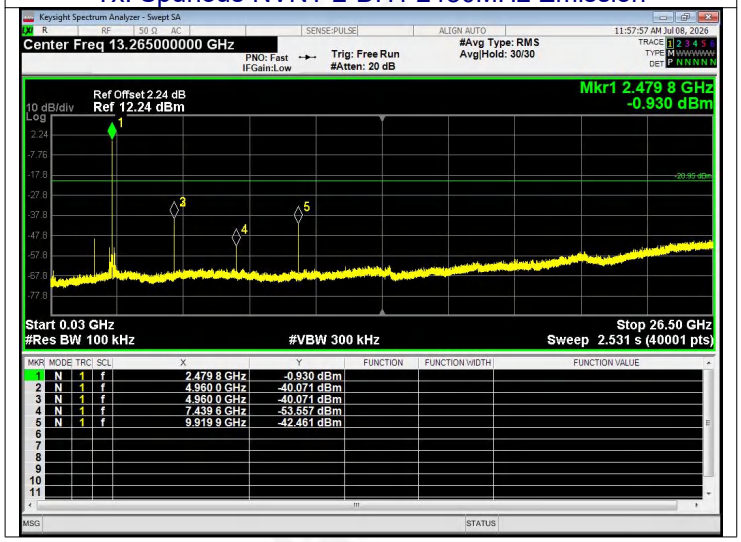
Tx. Spurious NVNT 2-DH1 2441MHz Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ref

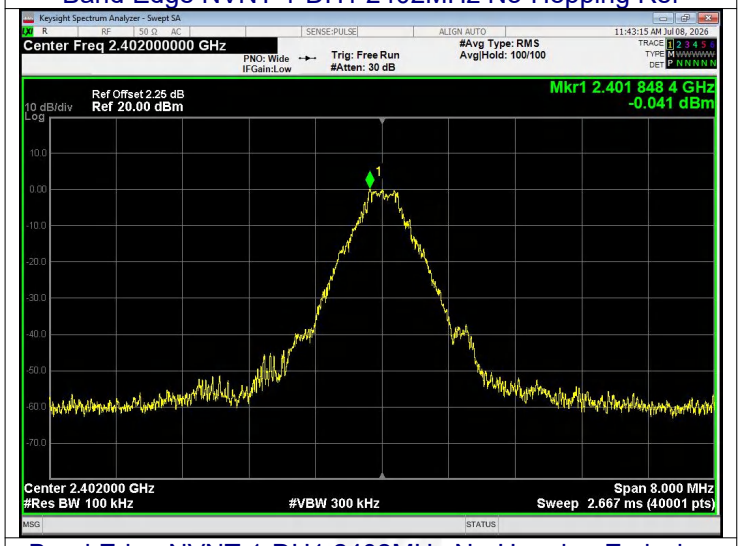


Tx. Spurious NVNT 2-DH1 2480MHz Emission

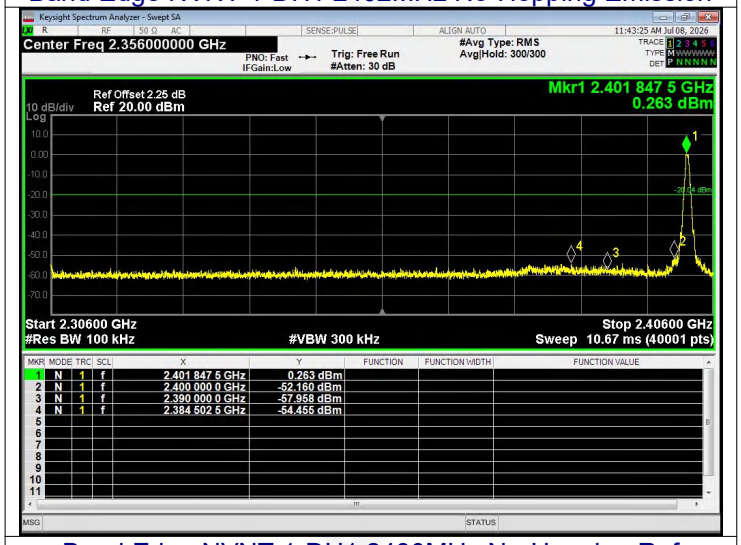


Test Graphs

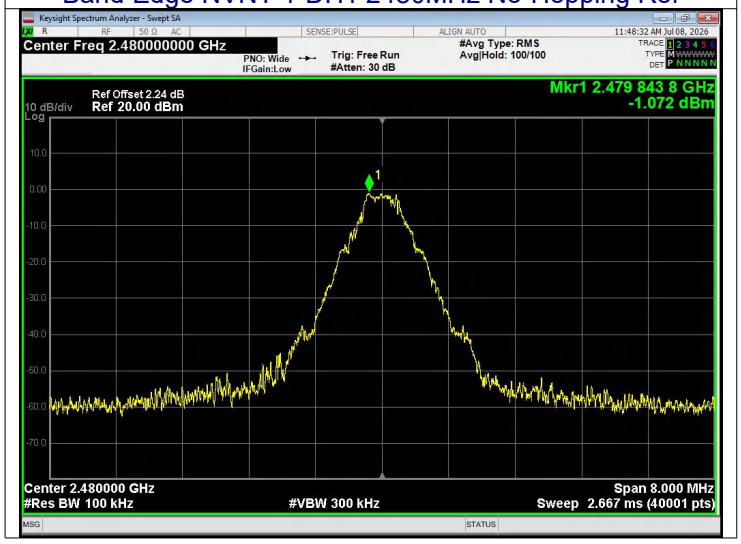
Band Edge NVNT 1-DH1 2402MHz No-Hopping Ref



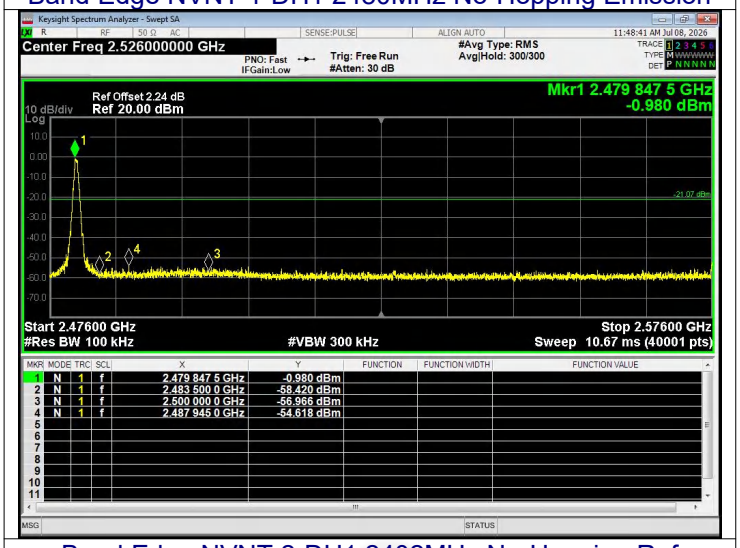
Band Edge NVNT 1-DH1 2402MHz No-Hopping Emission



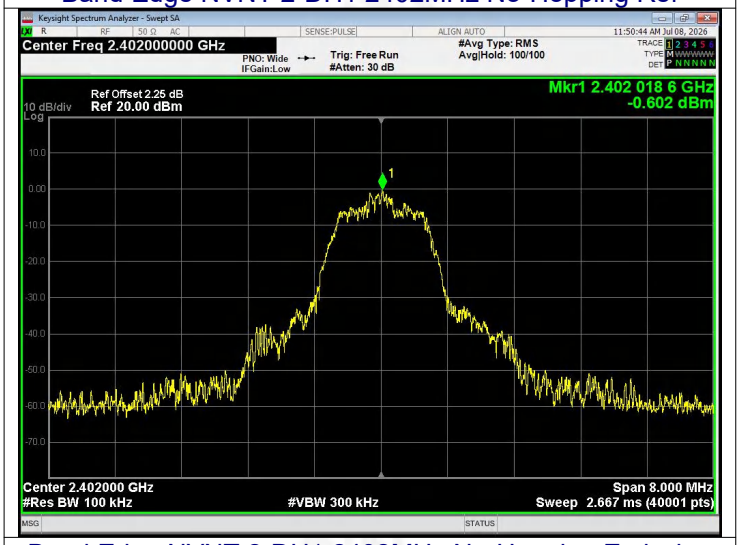
Band Edge NVNT 1-DH1 2480MHz No-Hopping Ref



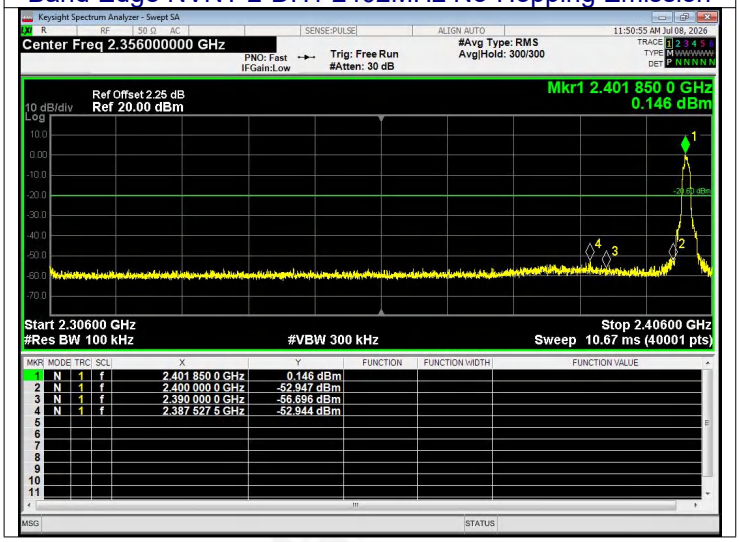
Band Edge NVNT 1-DH1 2480MHz No-Hopping Emission



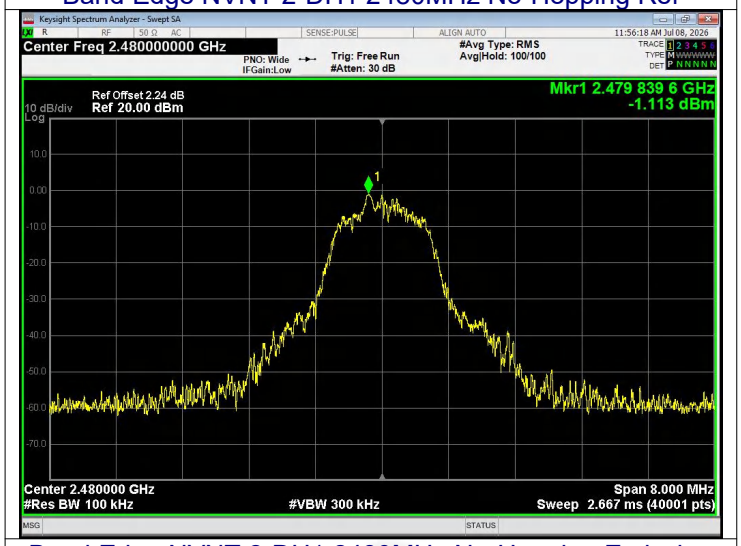
Band Edge NVNT 2-DH1 2402MHz No-Hopping Ref



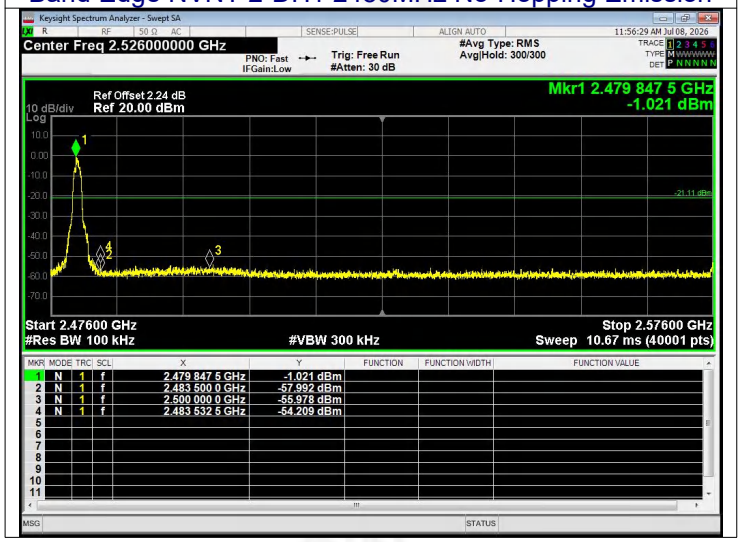
Band Edge NVNT 2-DH1 2402MHz No-Hopping Emission



Band Edge NVNT 2-DH1 2480MHz No-Hopping Ref



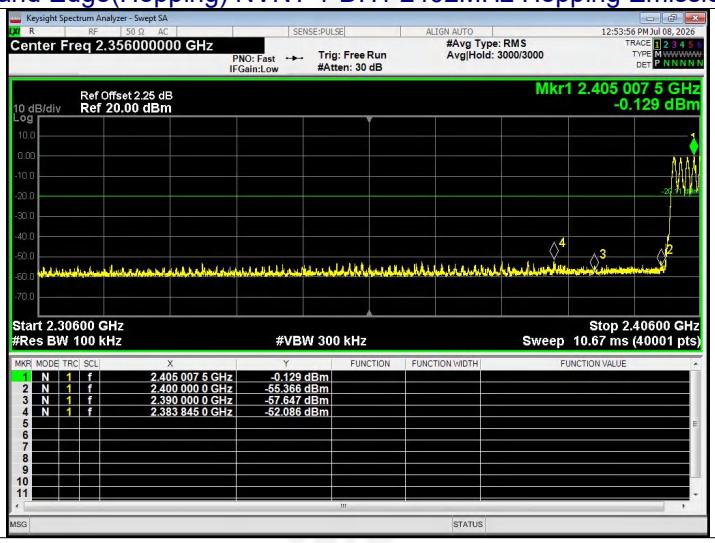
Band Edge NVNT 2-DH1 2480MHz No-Hopping Emission



Test Graphs

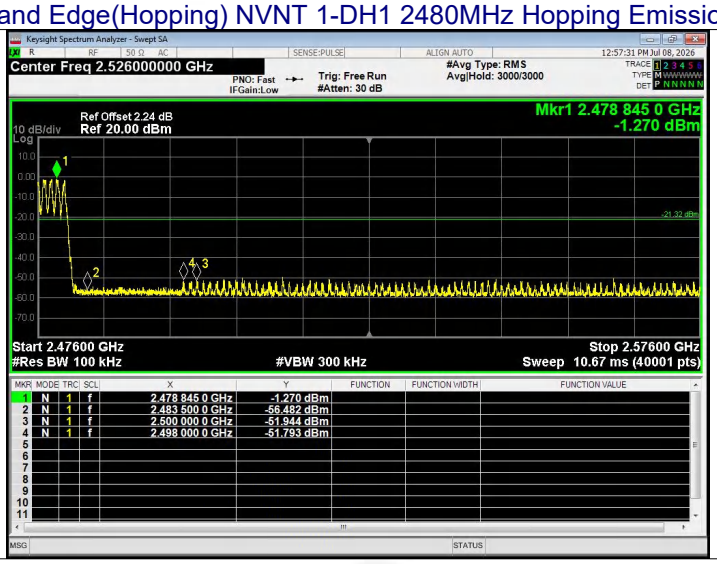
Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Ref

Band Edge(Hopping) NVNT 1-DH1 2402MHz Hopping Emission



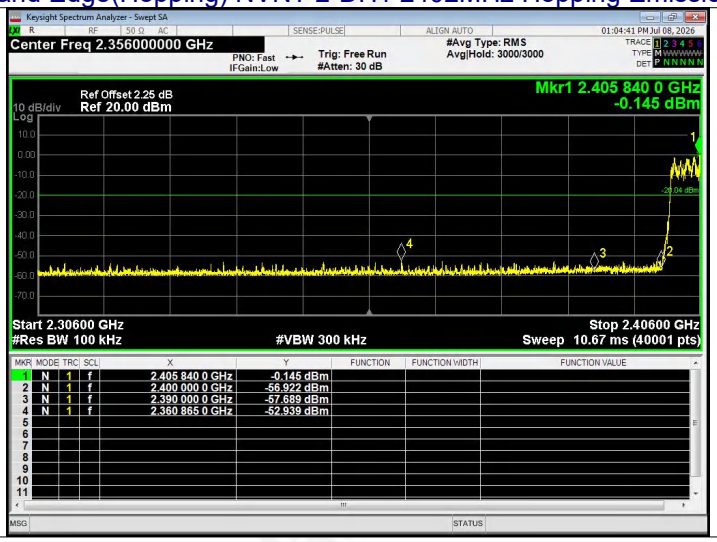
Band Edge(Hopping) NVNT 1-DH1 2480MHz Hopping Ref

Band Edge(Hopping) NVNT 1-DH1 2480MHz Hopping Emission



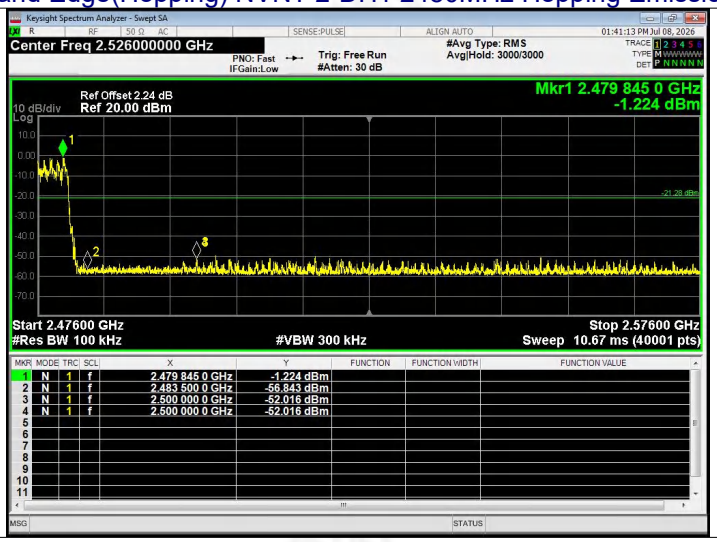
Band Edge(Hopping) NVNT 2-DH1 2402MHz Hopping Ref

Band Edge(Hopping) NVNT 2-DH1 2402MHz Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2480MHz Hopping Ref

Band Edge(Hopping) NVNT 2-DH1 2480MHz Hopping Emission



7. 20DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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

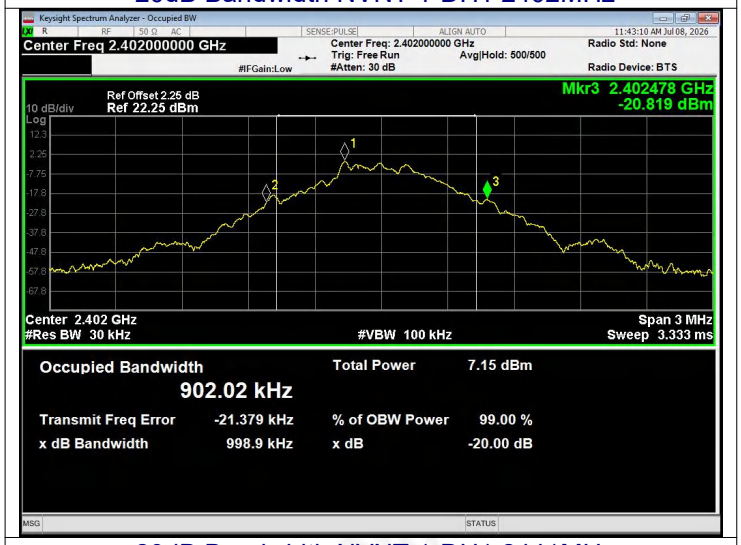
No deviation.

7.5 Test Result

Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.999	Pass
	Middle	1.027	
	Highest	1.033	
π/4-DQPSK	Lowest	1.293	Pass
	Middle	1.286	
	Highest	1.284	

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz



-20dB Bandwidth NVNT 1-DH1 2441MHz

-20dB Bandwidth NVNT 1-DH1 2480MHz

-20dB Bandwidth NVNT 2-DH1 2402MHz

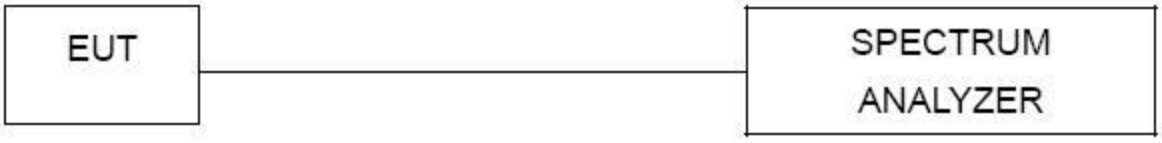
-20dB Bandwidth NVNT 2-DH1 2441MHz

-20dB Bandwidth NVNT 2-DH1 2480MHz

8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Limit:	GFSK:30 dBm π/4-DQPSK & 8-DPSK:20.97 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.

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 = 2MHz. VBW =6MHz. 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

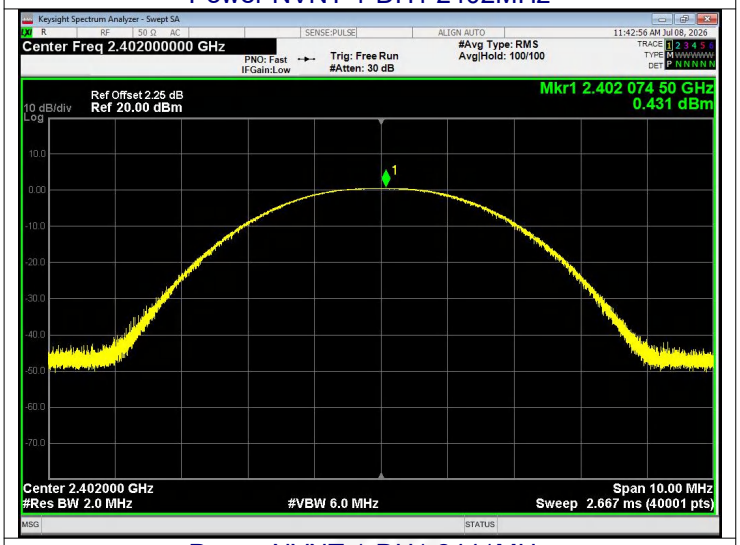
No deviation.

8.5 Test Result

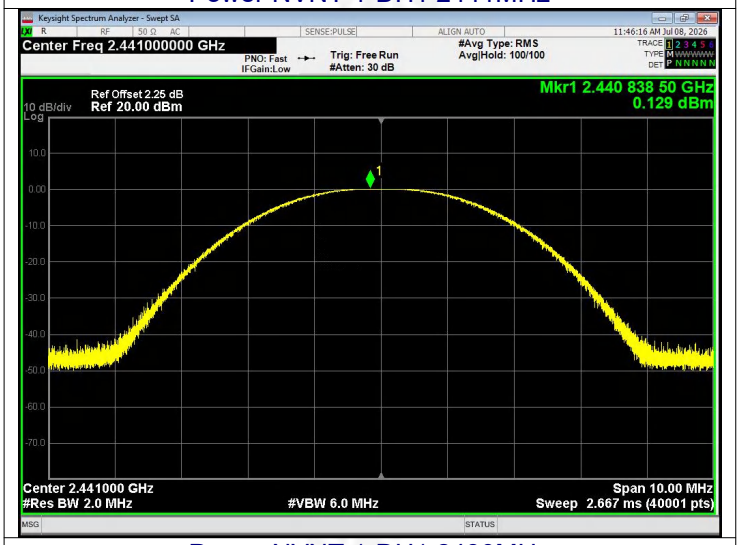
Mode	Test channel	Peak Output Power (dBm)	FCC Limit (dBm)	Result
GFSK	Lowest	0.431	30.00	Pass
	Middle	0.129		
	Highest	-0.744		
π/4-DQPSK	Lowest	1.105	21.00	Pass
	Middle	0.860		
	Highest	0.016		

Test Graphs

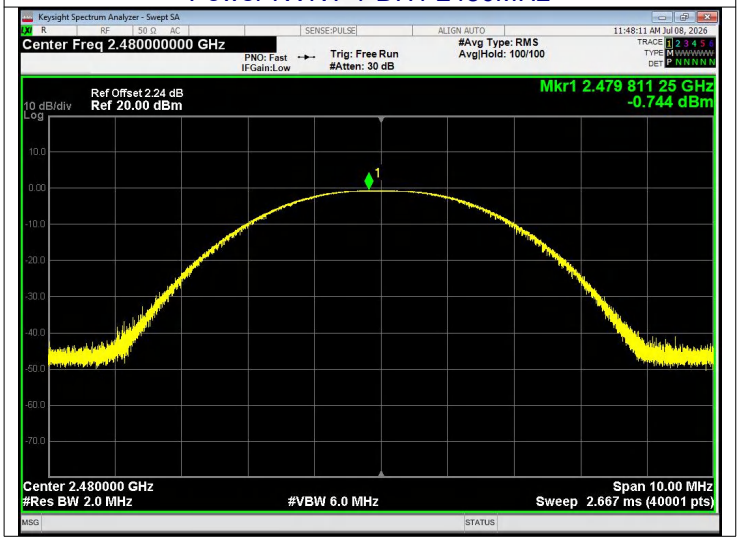
Power NVNT 1-DH1 2402MHz



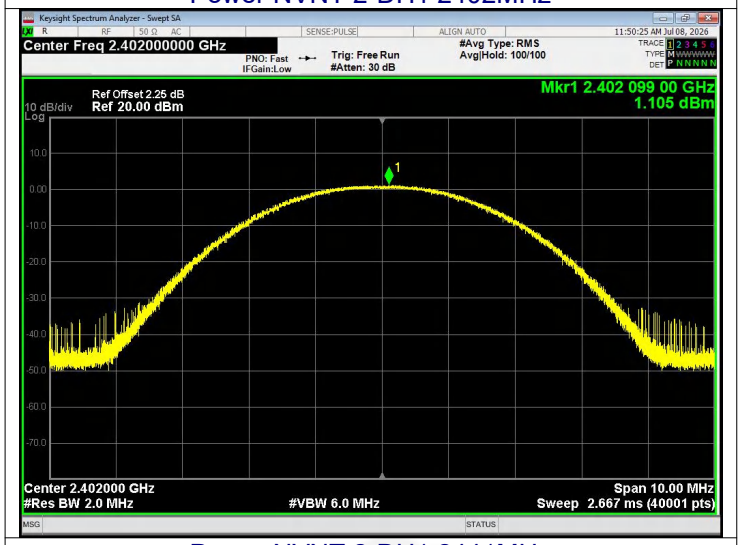
Power NVNT 1-DH1 2441MHz



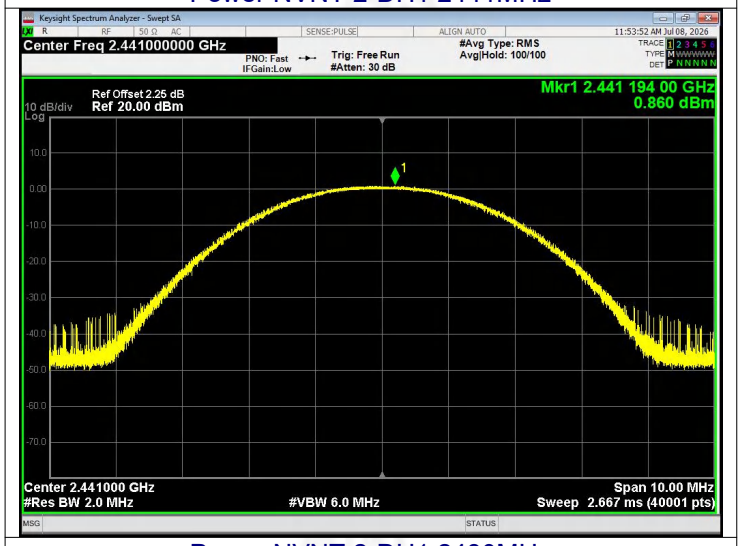
Power NVNT 1-DH1 2480MHz



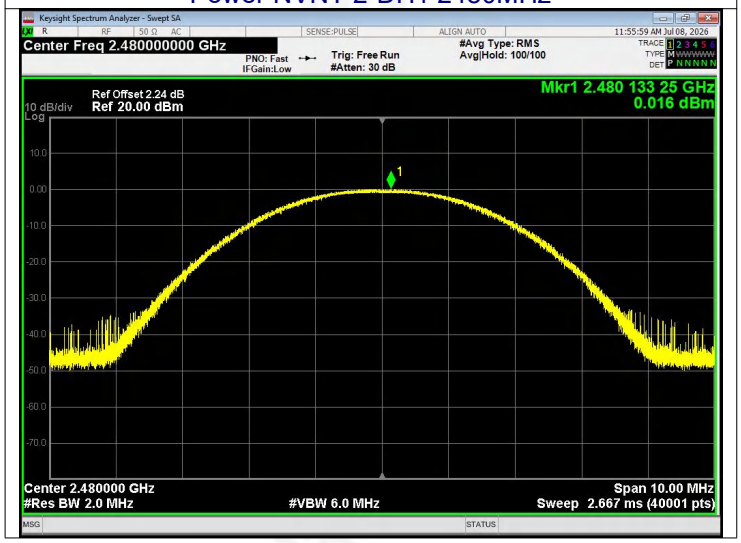
Power NVNT 2-DH1 2402MHz



Power NVNT 2-DH1 2441MHz



Power NVNT 2-DH1 2480MHz



9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Receiver setup:	RBW=30KHz, VBW=100KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth π/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 = 30kHz. VBW = 100kHz , Span = 2.0MHz. 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	1.068	0.999	PASS
GFSK	Middle	0.996	0.925	PASS
GFSK	High	0.978	0.918	PASS
π/4-DQPSK	Low	1.170	0.862	PASS
π/4-DQPSK	Middle	1.005	0.857	PASS
π/4-DQPSK	High	1.146	0.856	PASS

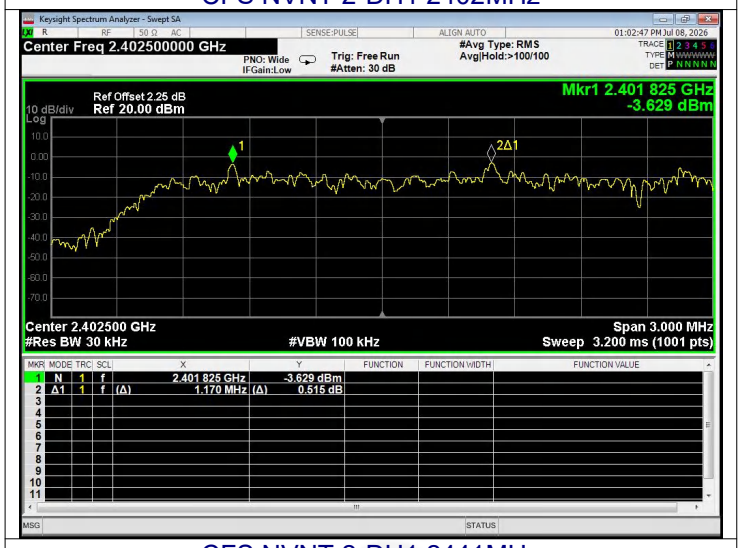
Test Graphs

CFS NVNT 1-DH1 2402MHz

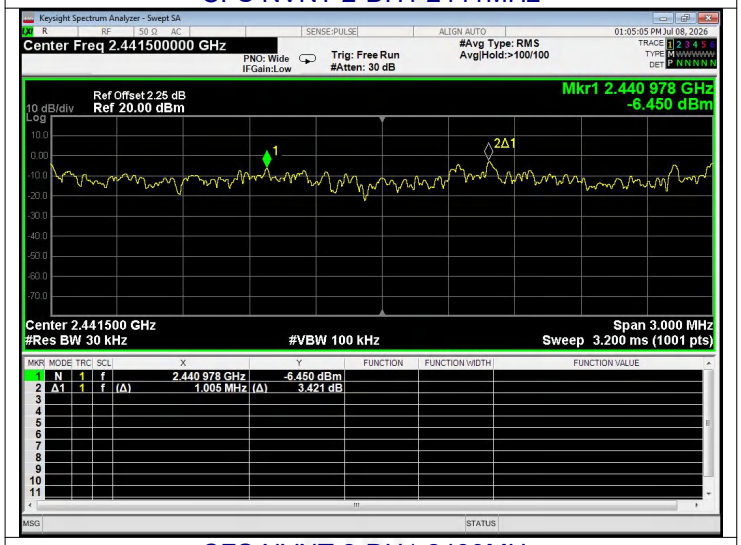
CFS NVNT 1-DH1 2441MHz

CFS NVNT 1-DH1 2480MHz

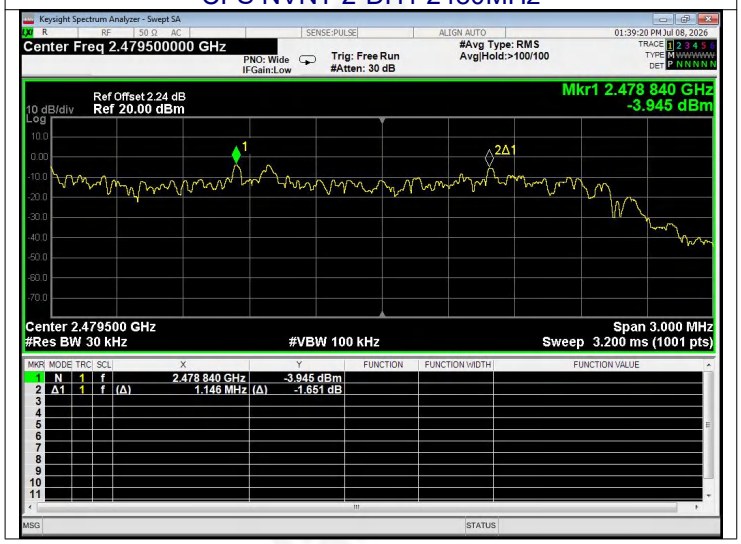
CFS NVNT 2-DH1 2402MHz



CFS NVNT 2-DH1 2441MHz



CFS NVNT 2-DH1 2480MHz



10.NUMBER OF HOPPING FREQUENCY

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	GFSK 75 channels, π/4-DQPSK 15channels

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

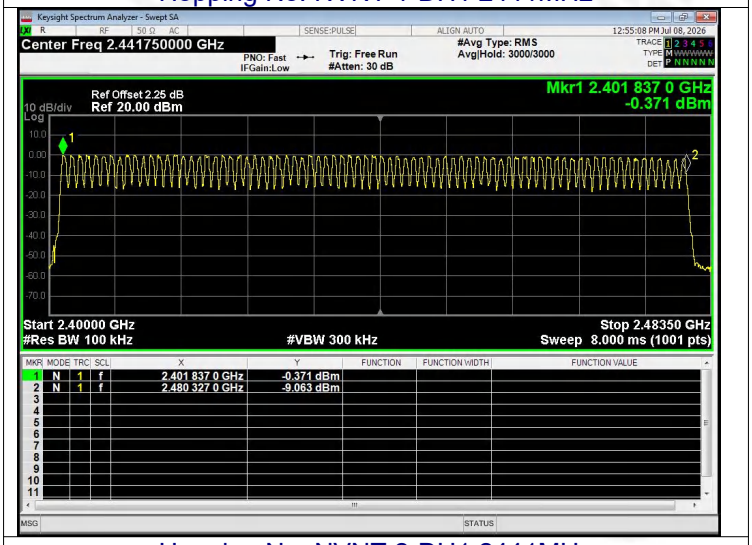
No deviation.

10.4 Test Result

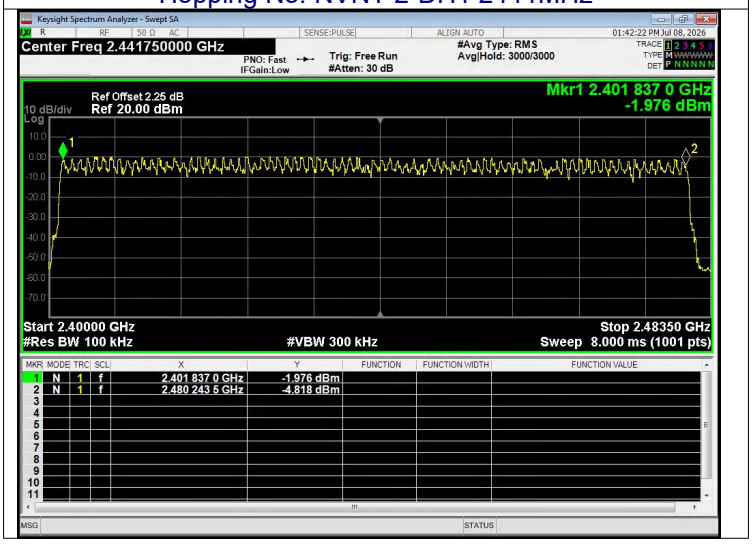
Modulation	Packet	Hopping Number	Limit	Result
GFSK	1-DH1	79	≥75	Pass
π/4-DQPSK	2-DH1	79	≥15	Pass

Test Graphs

Hopping No. NVNT 1-DH1 2441MHz



Hopping No. NVNT 2-DH1 2441MHz



11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
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, DH1, 2DH5, 2DH3 and 2DH1 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	0.383	122.56	31600	400	Pass
1-DH3	2441	1.639	262.24	31600	400	Pass
1-DH5	2441	2.887	307.947	31600	400	Pass
2-DH1	2441	0.392	125.44	31600	400	Pass
2-DH3	2441	1.644	263.04	31600	400	Pass
2-DH5	2441	2.892	308.48	31600	400	Pass

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31600ms

Test channel: as blow

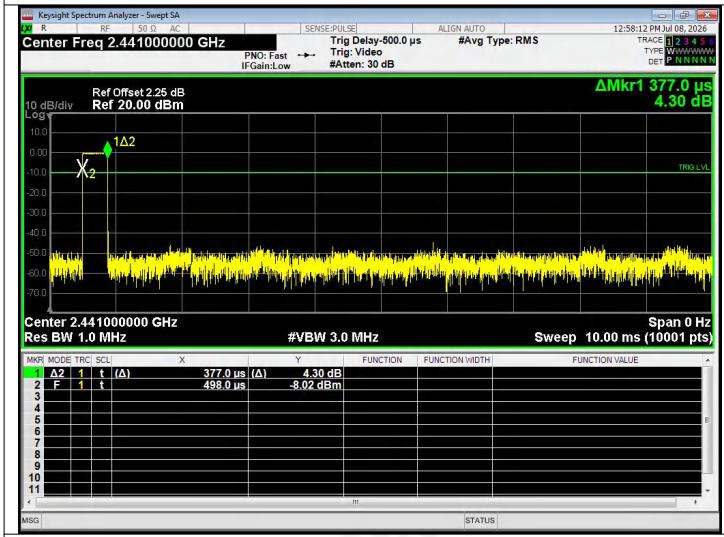
CH:2441MHz time slot=test data(ms)*(1600/ (2*79))*31600ms

CH:2441MHz time slot=test data(ms)*(1600/ (4*79))*31600ms

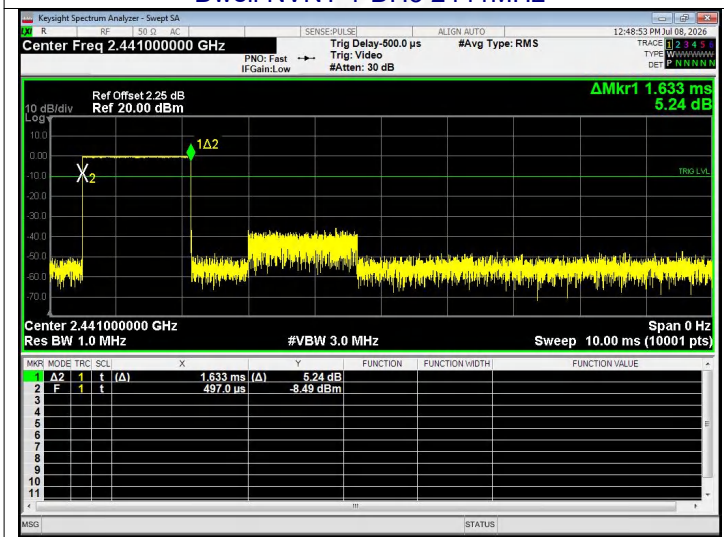
CH:2441MHz time slot=test data(ms)*(1600/ (6*79))*31600ms

Test Graphs

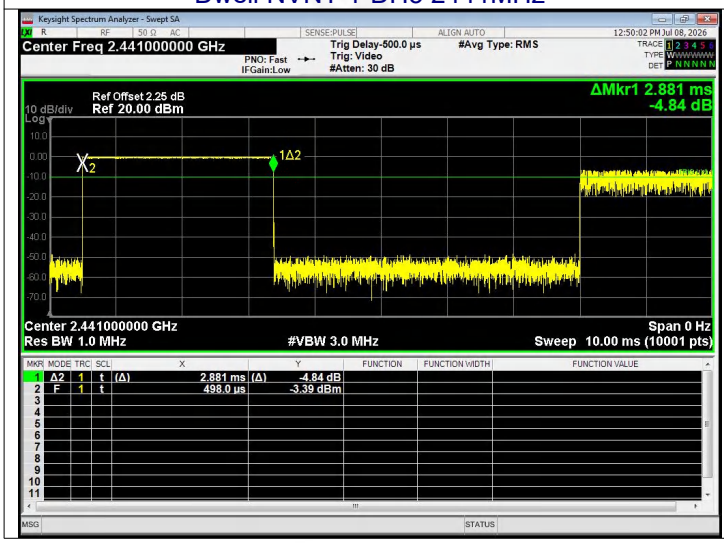
Dwell NVNT 1-DH1 2441MHz



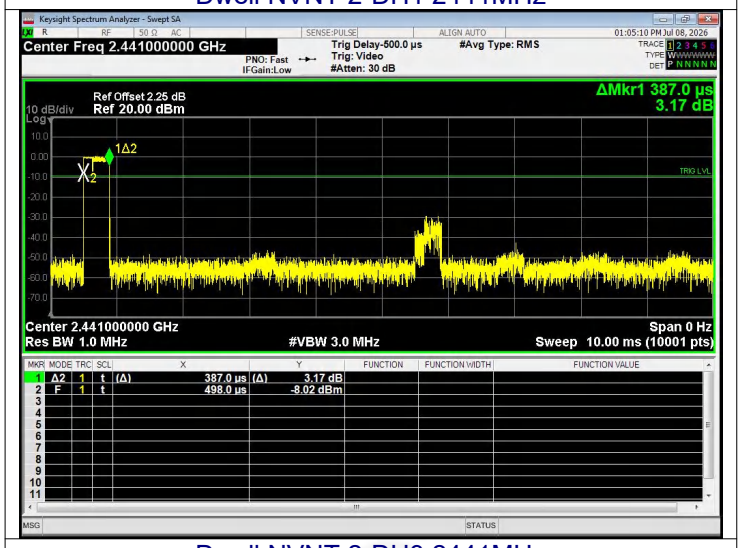
Dwell NVNT 1-DH3 2441MHz



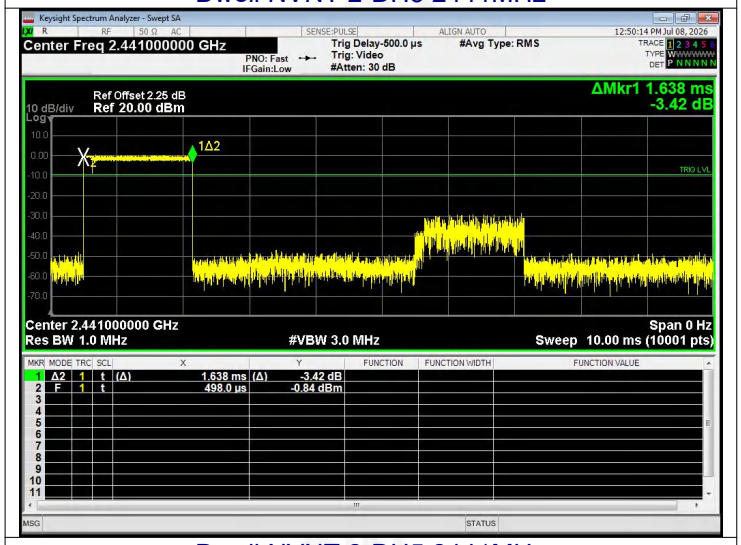
Dwell NVNT 1-DH5 2441MHz



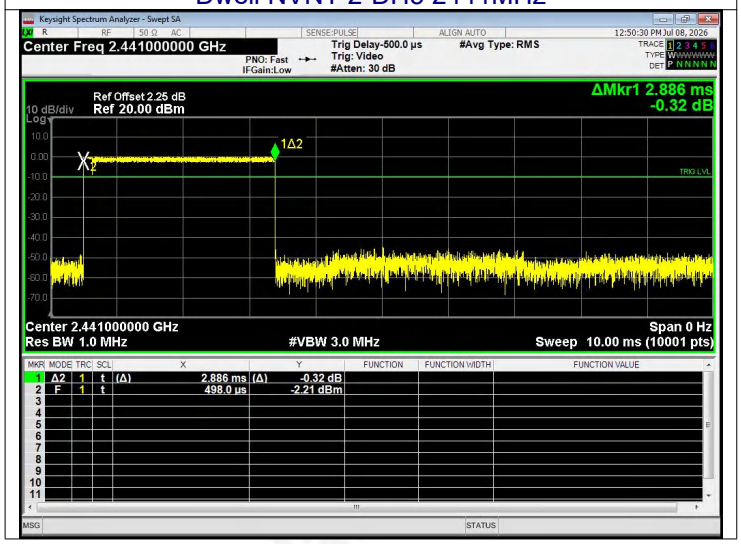
Dwell NVNT 2-DH1 2441MHz



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 1.7 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 ※※※※※