



FCC Test Report

Report No: FCS202605074W03

Issued for

Applicant:	Shenzhen Lele Orange Technology Co., Ltd
Address:	Room 1106,Building B,Guanghao International Center, Longhua District,Shenzhen, China
Product Name:	Tablet PC
Brand Name:	YPorangecheng
Model Name:	SLV10
Series Model:	T16,B8,P96,T88,T66,B6,P99,P66,B9
FCC ID:	2BW9G-SLV10

Issued By: Flux Compliance Service Laboratory

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TEST RESULT CERTIFICATION

Applicant's Name.....: Shenzhen Lele Orange Technology Co., Ltd
Address.....: Room 1106,Building B,Guanghao International Center, Longhua District,Shenzhen, China
Manufacture's Name.....: Shenzhen Lele Orange Technology Co., Ltd
Address.....: Room 1106,Building B,Guanghao International Center, Longhua District,Shenzhen, China

Product Description

Product Name.....: Tablet PC
Brand Name.....: YPorangecheng
Model Name.....: SLV10
Series Model.....: See the first page of the report
Test Standards.....: FCC Rules and Regulations Part 15 Subpart C, Section 247
Test Procedure.....: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

This device described above has been tested by Flux Compliance Service Laboratory, 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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Date of Test.....:

Date (s) of performance of tests.: May. 12, 2026 ~ Aug. 26, 2026

Date of Issue.....: Aug. 26, 2026

Test Result.....: Pass

Tested by :



(orange OuYang)

Reviewed by :



(Jayden)

Approved by :



(Jack Wang)

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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Aug. 26, 2026	FCS202605074W03	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247(a)(1)	Hopping Channel Separation	PASS	--
15.247 (b)(1)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247(d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247(a)(1)(i)	Number of Hopping Frequency	PASS	--
15.247(a)(1)(i)	Dwell Time	PASS	--
15.247(a)(1)	20dB Bandwidth 99% Bandwidth	PASS	--
15.205	Restricted bands of operation	PASS	--
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

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

(2) All tests are according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
Laboray Accreditations	
FCC Test Firm Registration Number: 514908 CNAS Number: L15566 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, 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	RF output power, conducted	$\pm 0.71 \text{ dB}$
2	Unwanted Emissions, conducted	$\pm 2.988 \text{ dB}$
3	Conducted Emission (9KHz-150KHz)	$\pm 4.13 \text{ dB}$
4	All emissions radiated (9KHz -30MHz)	$\pm 3.1 \text{ dB}$
5	Conducted Emission (150KHz-30MHz)	$\pm 4.74 \text{ dB}$
6	All emissions,radiated(<1G) 30MHz-1000MHz	$\pm 5.2 \text{ dB}$
7	All emissions,radiated 1GHz -18GHz	$\pm 4.66 \text{ dB}$
8	All emissions,radiated 18GHz -40GHz	$\pm 4.31 \text{ dB}$
9	Occupied bandwidth	$\pm 0.3 \text{ dB}$
10	Dwell Time	$\pm 0.24 \text{ ms}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Tablet PC
Trade Name	YPorangecheng
Model Name	SLV10
Series Model	T16,B8,P96,T88,T66,B6,P99,P66,B9
Model Difference	The above product with same circuit, PCB layout, electrical parts, materials and wiring structures, Appearance shape, the materials of decorative accessories is same, the only difference is the model name and colour.
Channel List	Please refer to the Note 2.
Operation frequency	2402MHz-2480MHz
Modulation:	GFSK
Channel number	79 CH
Transmitter rate:	1MHz
Adapter	Input:,AC 110-240V MAX:180 mA Output: DC 5.0V 2A
Battery	DC 3.7V ,4000mAH
Report number	FCS202605074W03
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

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

2.

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

3. Table for Filed Antenna

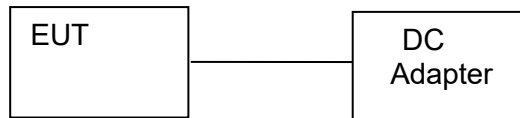
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PIFA antenna	N/A	1.9	N/A

2.2 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Block diagram of EUT configuration for test

Mode 1:



Test software:

FrequencyTool_v0.3.2

Power:default

The test software was used to control EUT work in continuous TX mode, and select test channel, Wireless mode as below table

No.	Test model descrtion
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Hopping GFSK

Note:

1. All the test modes can be supply by adapter, only the result of the worst case recorded in the report. GFSK mode is worst mode.
2. For radiated emission, 3 axis were chosen for testing for each applicable mode.
3. During the test, The test voltage was tuned from 85% to 115% of the Nominal rate supply votage, and found that the worst case was the nominal rated supply condition, So the report just shows that condition's data.
4. The chip only supports the BR function, and the EDR function has been blocked through software.

2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	Adapter	XIAOMI	MDY-11-EB	N/A	this adapter is for testing only in repor
2	Cable	A-1	0.5m	N/A	

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note	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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2025.08.25	2026.08.24
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.25	2026.08.24
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2025.08.25	2026.08.24
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.25	2026.08.24
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.25	2026.08.24
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.25	2026.08.24
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2025.08.25	2026.08.24
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2025.08.25	2026.08.24
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E005	2025.08.25	2026.08.24
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2025.08.25	2026.08.24
LISN	R&S	ENV216	FCS-E007	2025.08.25	2026.08.24
LISN	ETS	3810/2NM	FCS-E009	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.25	2026.08.24
Testing Software	EZ-EMC(Ver.EMC-CON 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2025.08.25	2026.08.24
Spectrum Analyzer	Agilent	E4447A	MY50180039	2025.08.25	2026.08.24
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.25	2026.08.24
Power Sensor	Agilent	UX2021XA	FCS-E021	2025.08.25	2026.08.24
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

3. 20 DB BANDWIDTH

3.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247a(1)	20dB bandwidth	N/A	2400-2483.5

3.2 Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 20 dB Bandwidth :30KHz For 99% Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 20dB Bandwidth : $\geq 3 \times \text{RBW}$ For 99% Bandwidth : approximately $3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto

- (1) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator
- (2) Position the EUT without connection to measurement instrument. 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.
- (3) Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

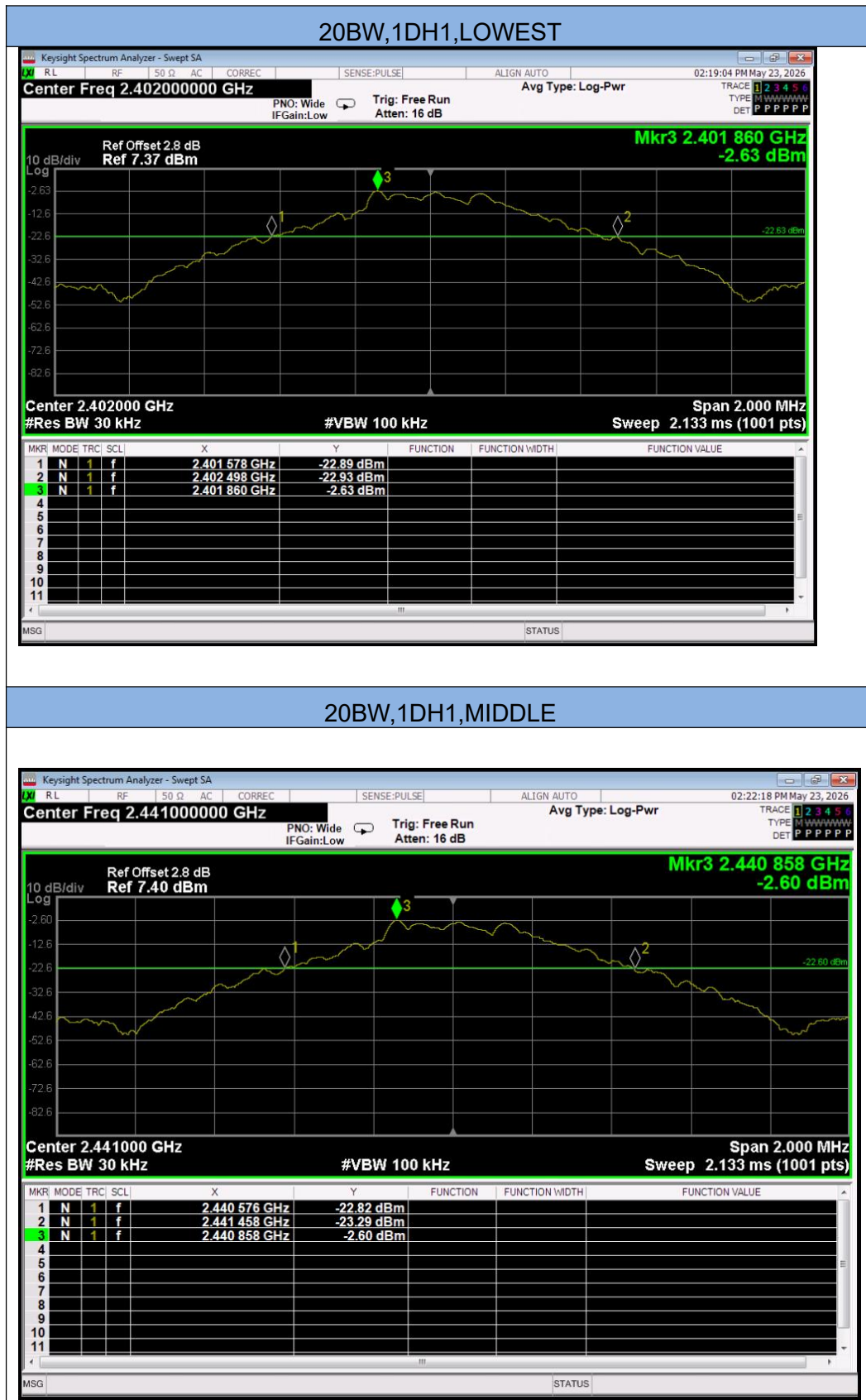
3.3 Test setup



3.4 Test results

20BW						
Condition	Mode	Frequency(MHz)	99%OBW(MHz)	20BW(MHz)	Frequency Range(MHz)	Result
NVNT	1DH1	2402	0.832	0.920	2400-2483.5	Pass
NVNT	1DH1	2441	0.832	0.882	2400-2483.5	Pass
NVNT	1DH1	2480	0.836	0.884	2400-2483.5	Pass

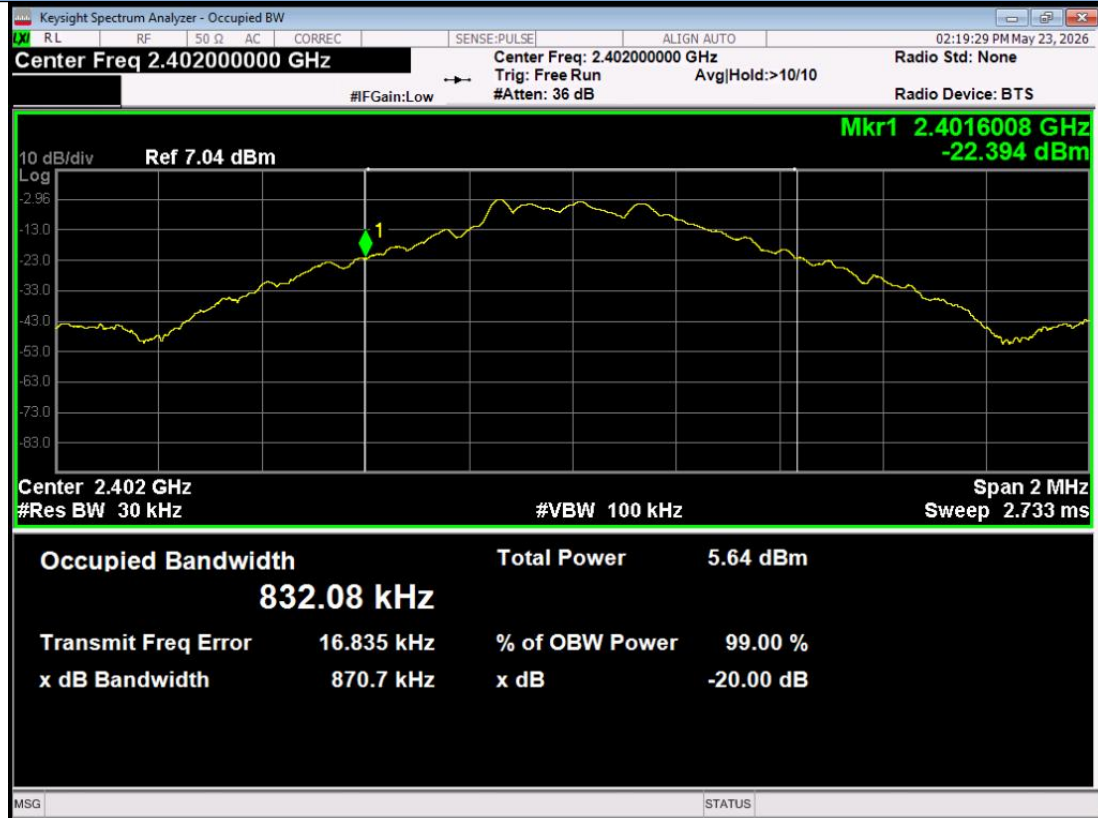
3.5 Original Test Data



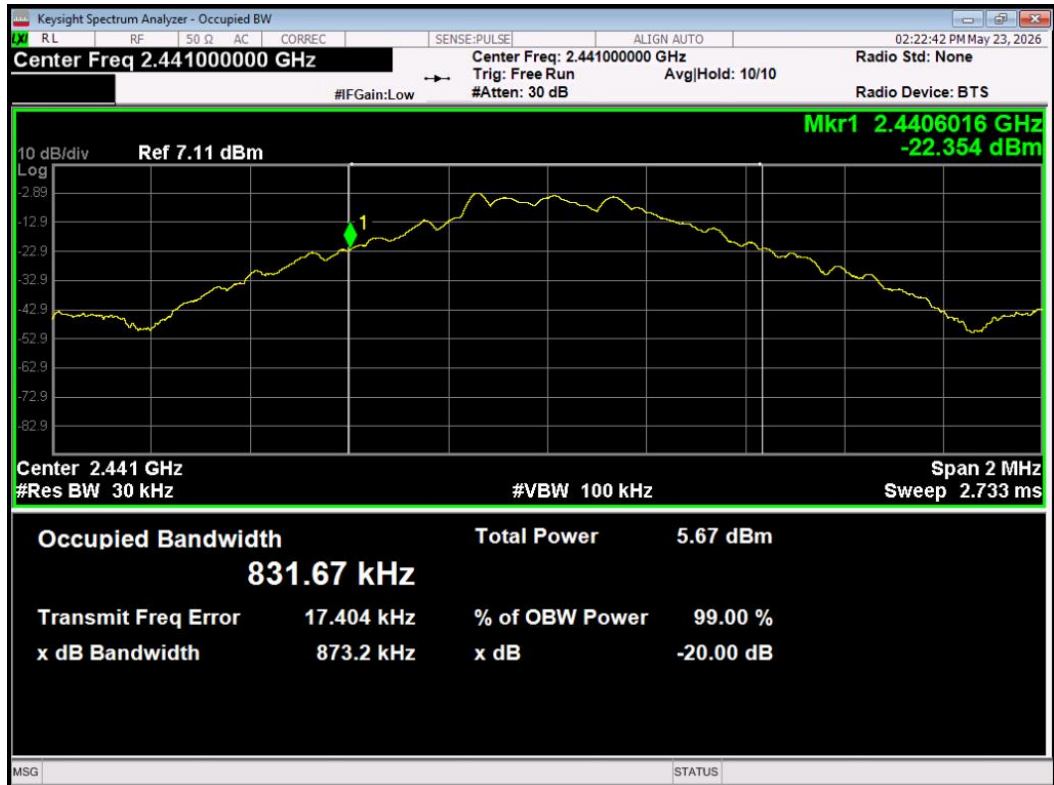
20BW,1DH1,HIGHEST



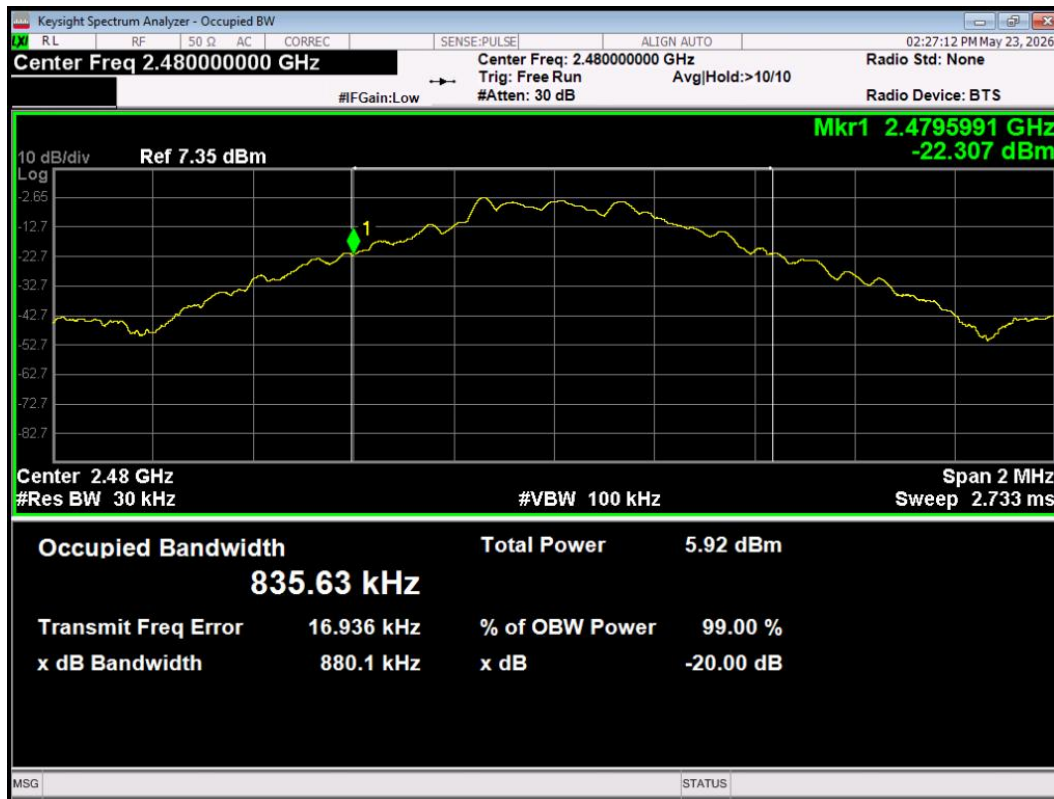
99%OBW,1DH1,LOWEST



99%OBW,1DH1,MIDDLE



99%OBW,1DH1,HIGHEST



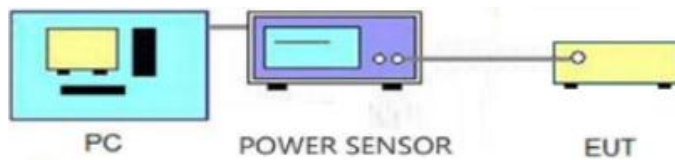
4. CONDUCTED OUTPUT POWER

4.1 LIMIT

FCC Part 15 Subpart C			
Section	Test Item	Limit	Frequency Range
15.247(b)(1)	Peak output power	Power <21dBm	2400-2483.5

- 1.Connect each EUT's antenna output to power sensor by RF cable and attenuator
- 2.Measure the PK output power of each antenna port by power sensor.

4.2 TEST SETUP



4.3 TEST RESULTS

TestMode	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
Lowest	2402MHz	-0.83	21	Pass
Middle	2441MHz	-0.85	21	Pass
Highest	2480MHz	-0.60	21	Pass

5 NUMBER OF HOPPING CHANNEL

5.1 LIMIT

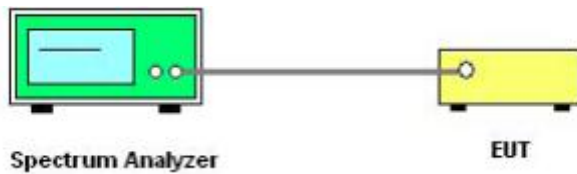
FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii) RSS-247	Number of Hopping Channel	>15	2400-2483.5	PASS

5.2 TEST PROCEDURE

a The EUT was directly connected to the spectrum analyzer and antenna output port as shown in the block diagram below.

b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto

5.3 TEST SETUP



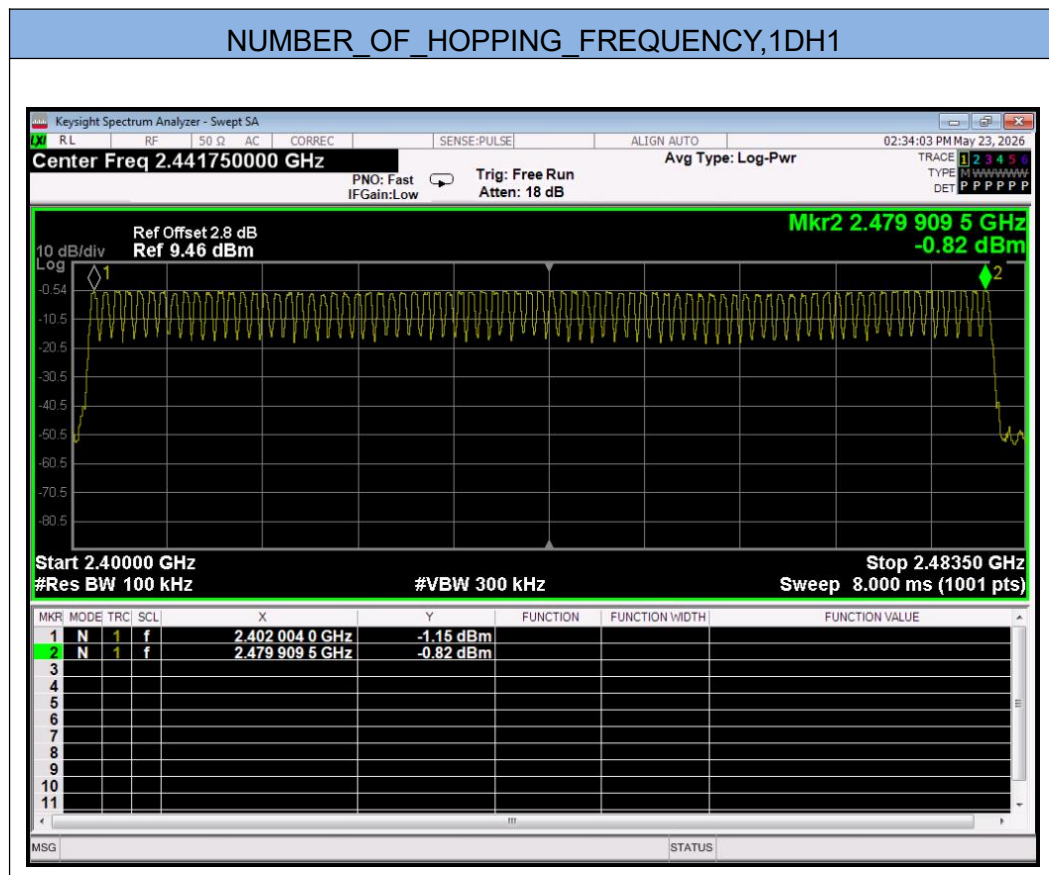
5.4 EUT OPERATION CONDITIONS

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.

5.5 TEST RESULTS

Temperature:	24.5 °C	Relative Humidity:	60%
Test Mode:	Hopping Mode -GFSK Mode	Test Voltage:	DC 3.7V

Number_Of_Hopping_Frequency					
Condition	Mode	Hopping Number	Limit	Frequency Range(MHz)	Results
NVNT	GFSK	79	>15	2400-2483.5	Pass



6. BAND EDGE AND SPURIOUS(CONDUCTED)

6.1 LIMIT

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

6.2 TEST PROCEDURE

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	DTS Channel center frequency
RBW:	100kHz
VBW:	300kHz
Span	1.5times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

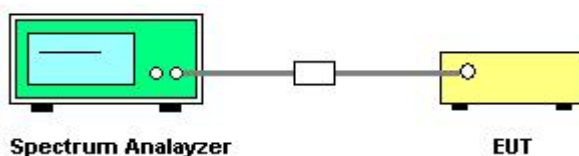
(3) Establish Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100kHz
VBW:	300kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

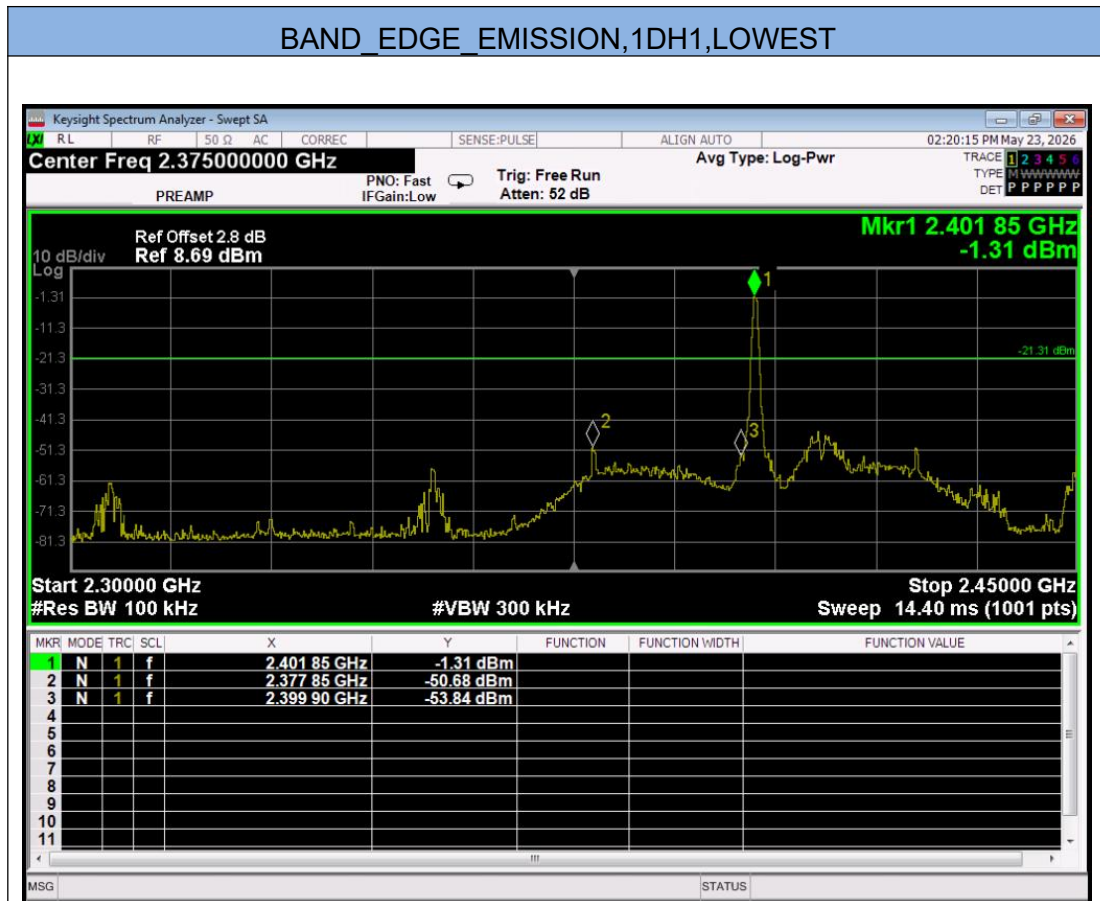
6.3 TEST SETUP



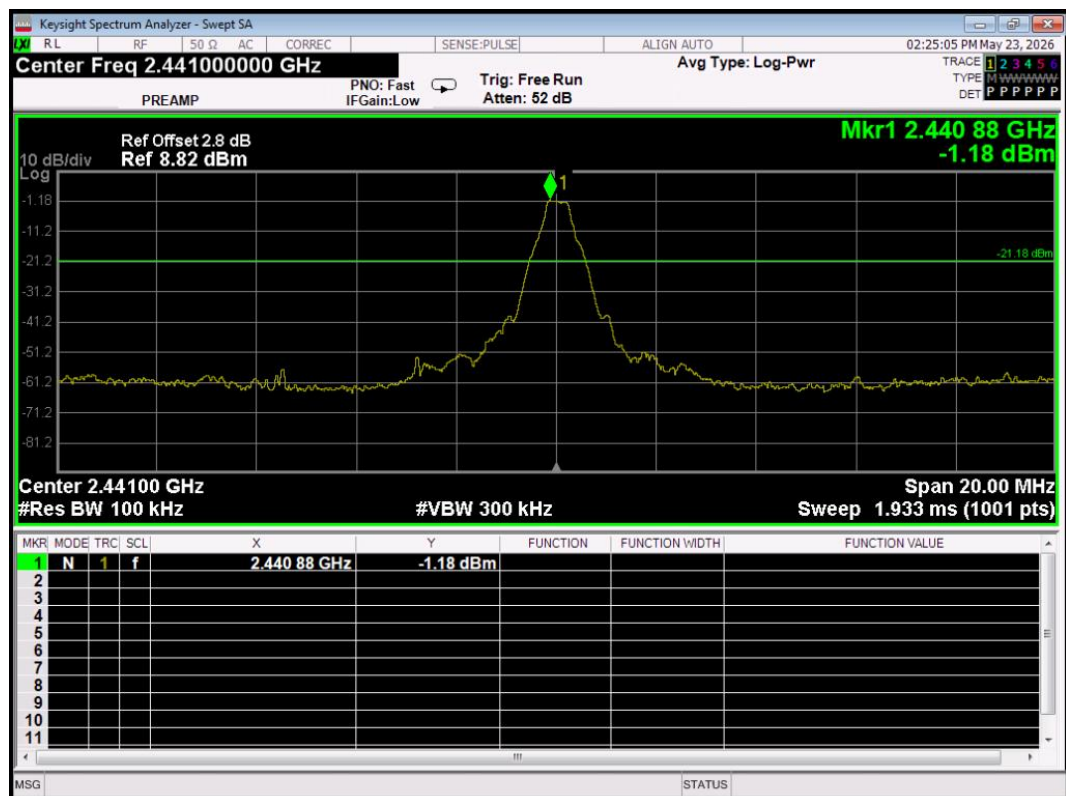
6.4 TEST RESULTS

Eut set mode	CH or Frequency	Result
GFSK	CH1	Pass
	CH39	Pass
	CH79	Pass

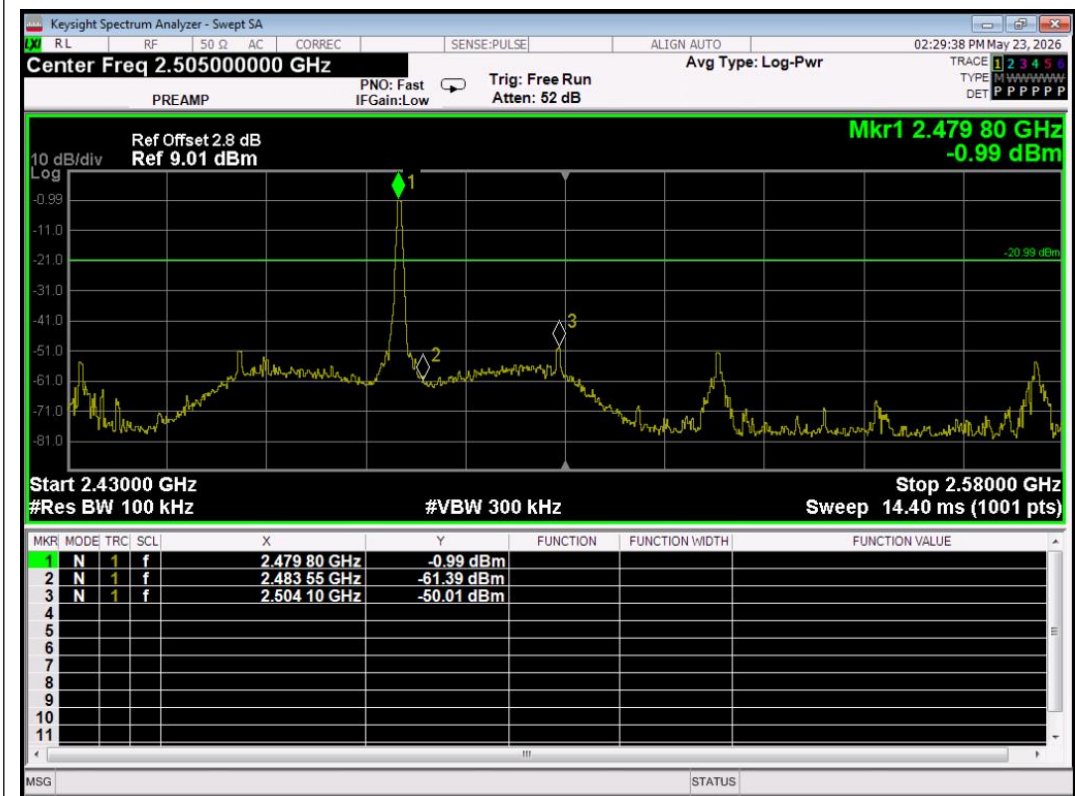
6.5 Original test data



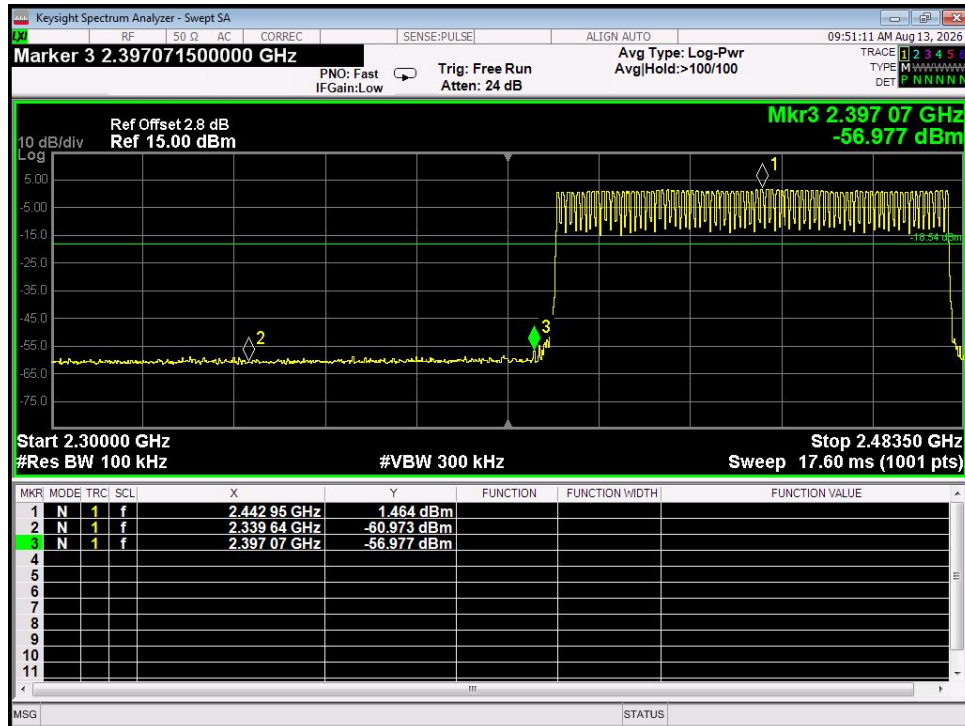
BAND_EDGE_EMISSION,1DH1,MIDDLE



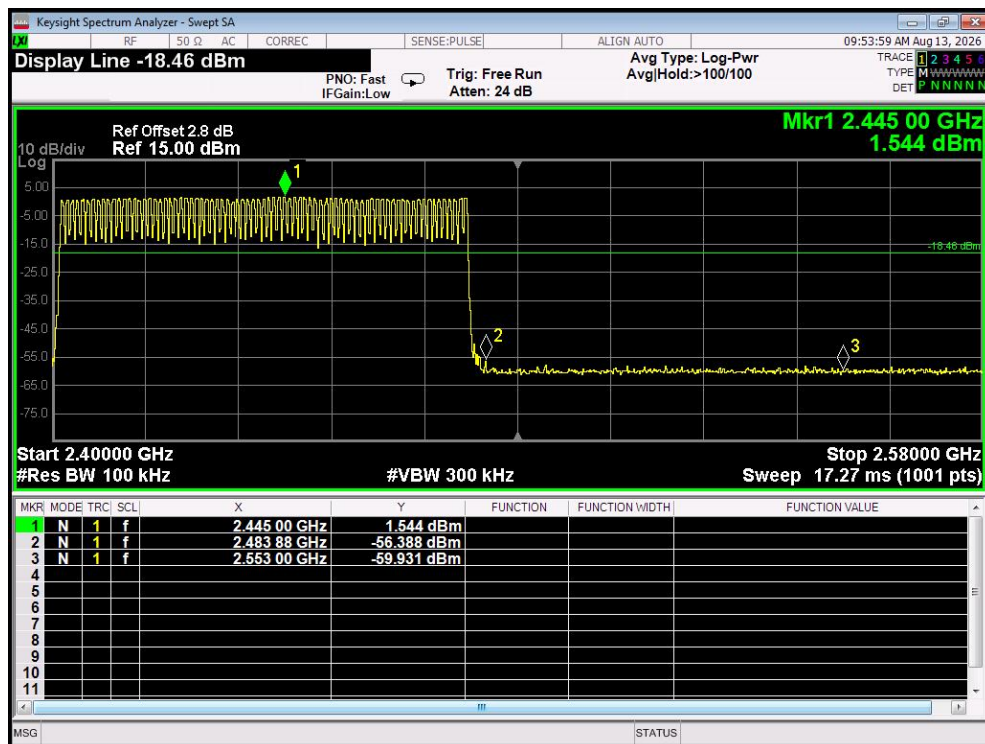
BAND_EDGE_EMISSION,1DH1,HIGHEST



HOPPING_BAND_EDGE_EMISSION,1DH1_LEFT

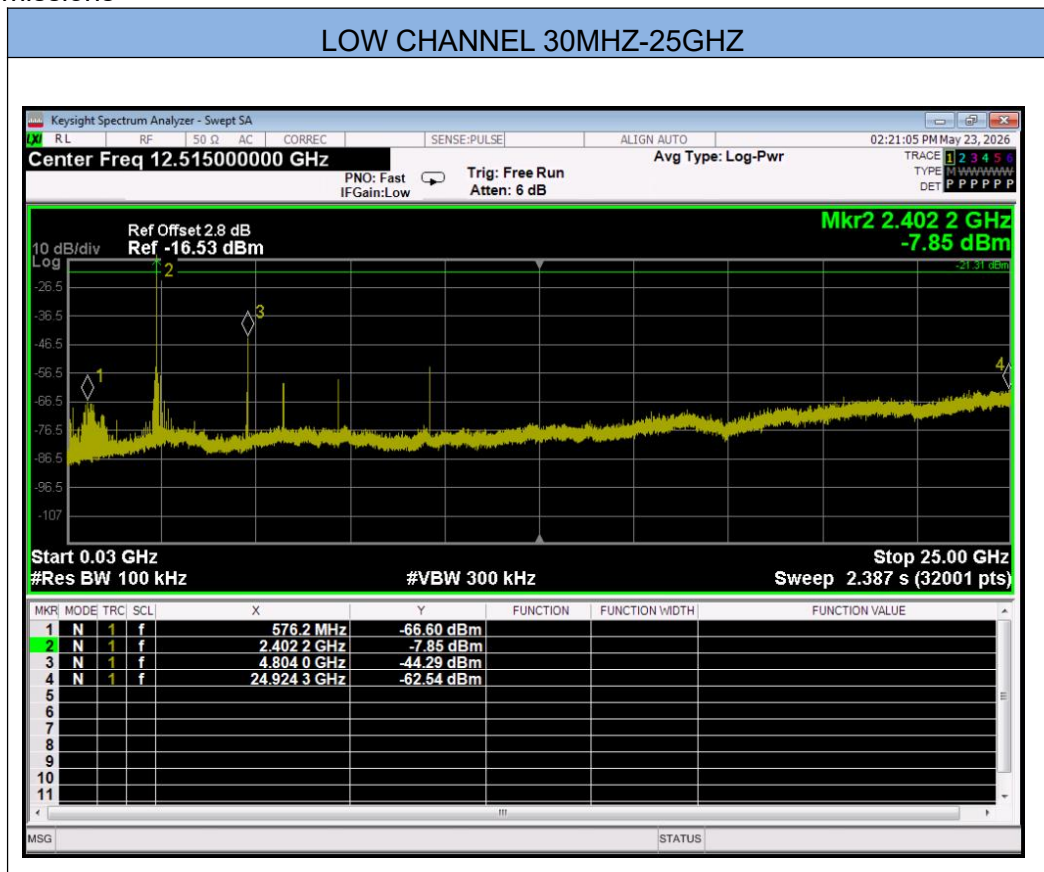


HOPPING_BAND_EDGE_EMISSION,1DH1_RIGHT

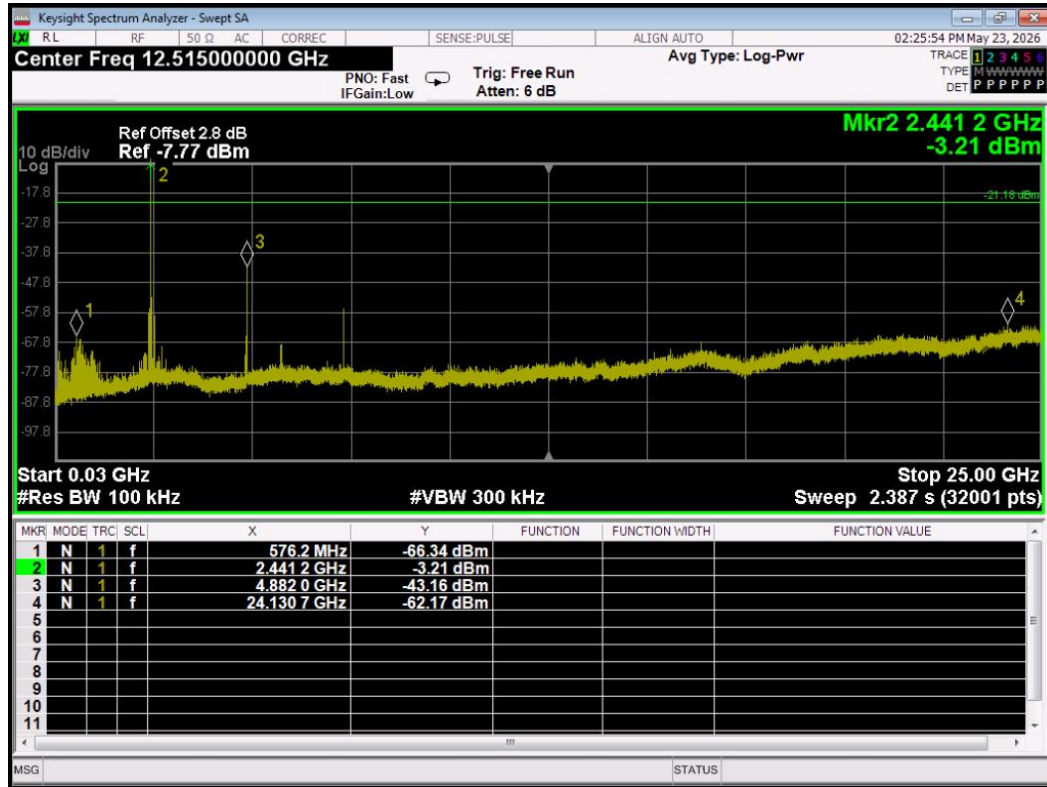


Temperature:	25 °C	Relative Humidity:	60%
Test Mode:	GFSK Mode	Test Voltage:	DC 3.7V

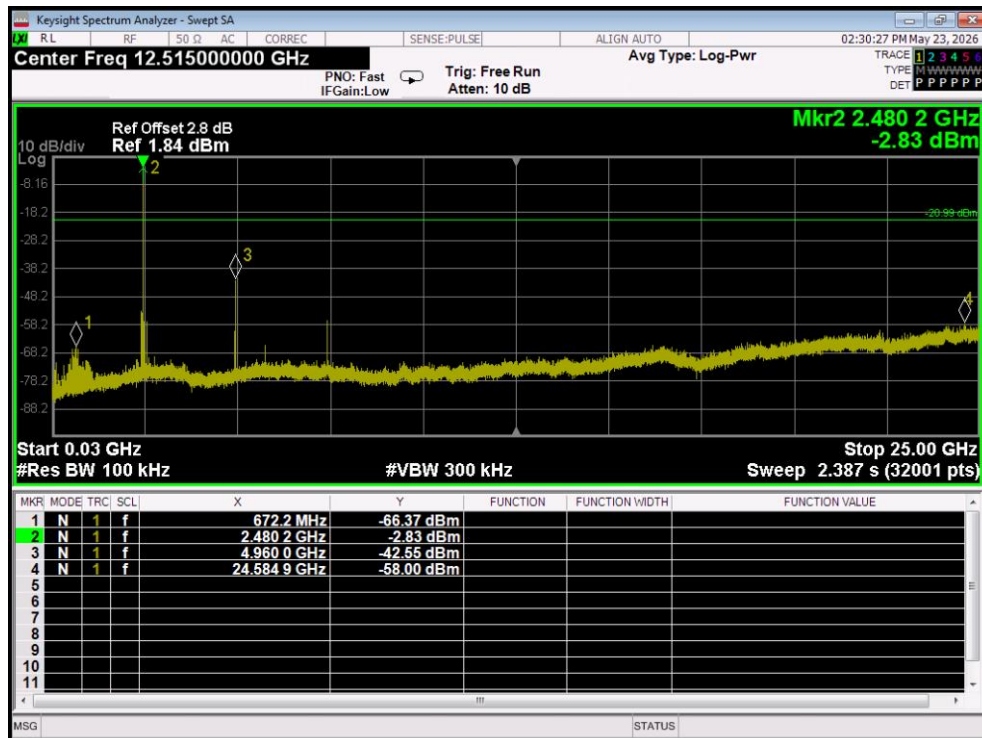
Spurious emissions



MIDDLE CHANNEL 30MHZ-25GHZ



HIGHEST CHANNEL 30MHZ-25GHZ



7. RADIATED EMISSION MEASUREMENT

7.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 below has to be followed LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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 (1GHz-25 GHz)

FREQUENCY (MHz)	(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).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2403 MHz Upper Band Edge: 2479 to 2500 MHz
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz / 10 Hz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.2 TEST PROCEDURE

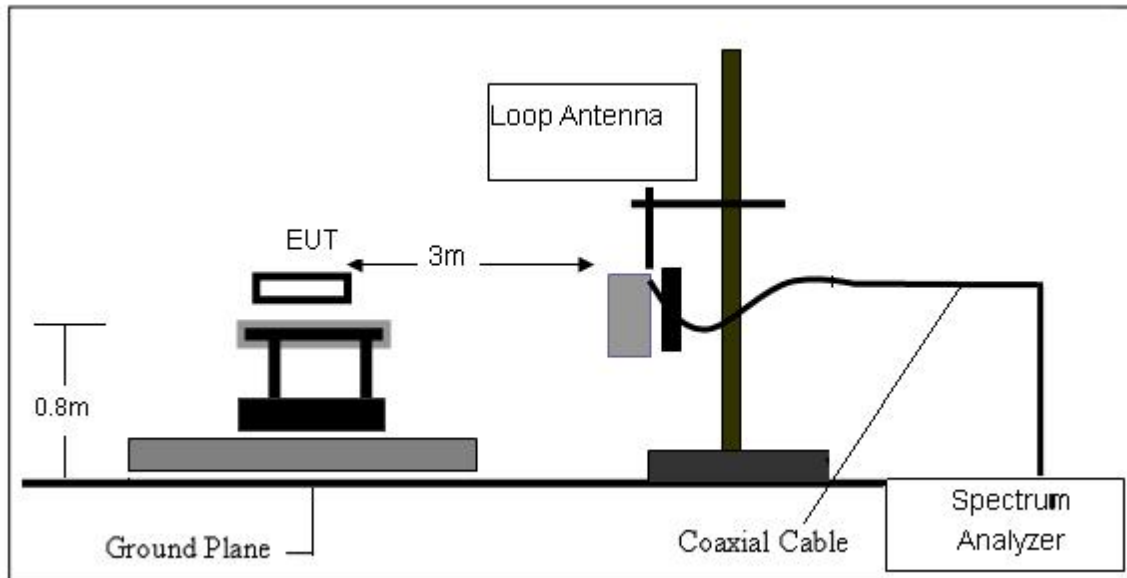
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

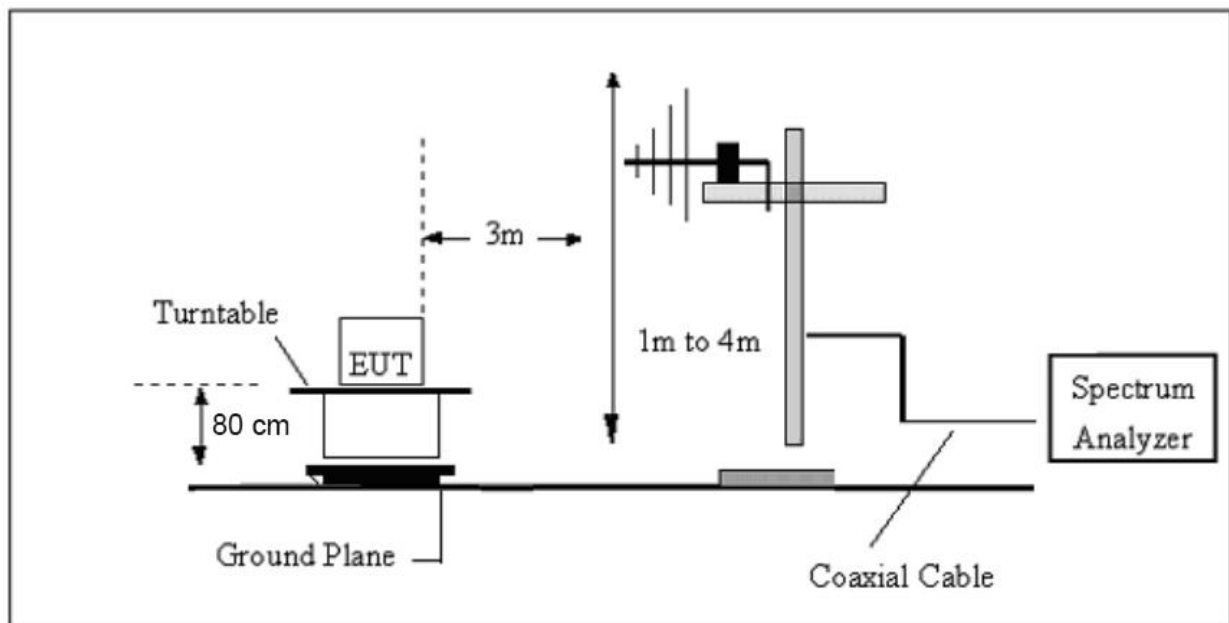
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

7.3 TESTSETUP

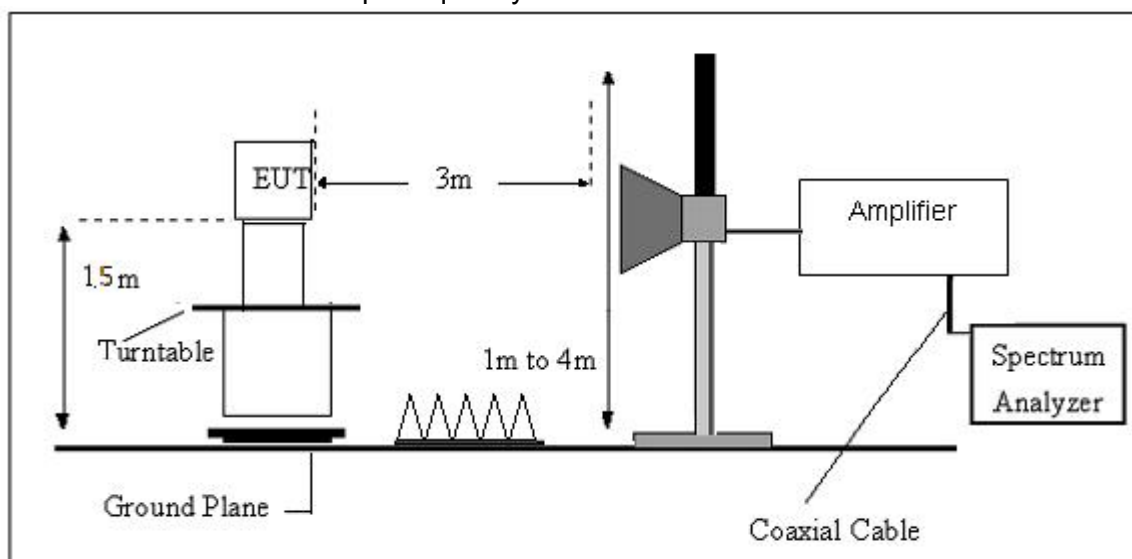
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.4. TEST RESULTS

(9KHz-30MHz)

Temperature:	23.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Test Mode:	GFSK(worst mode)

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

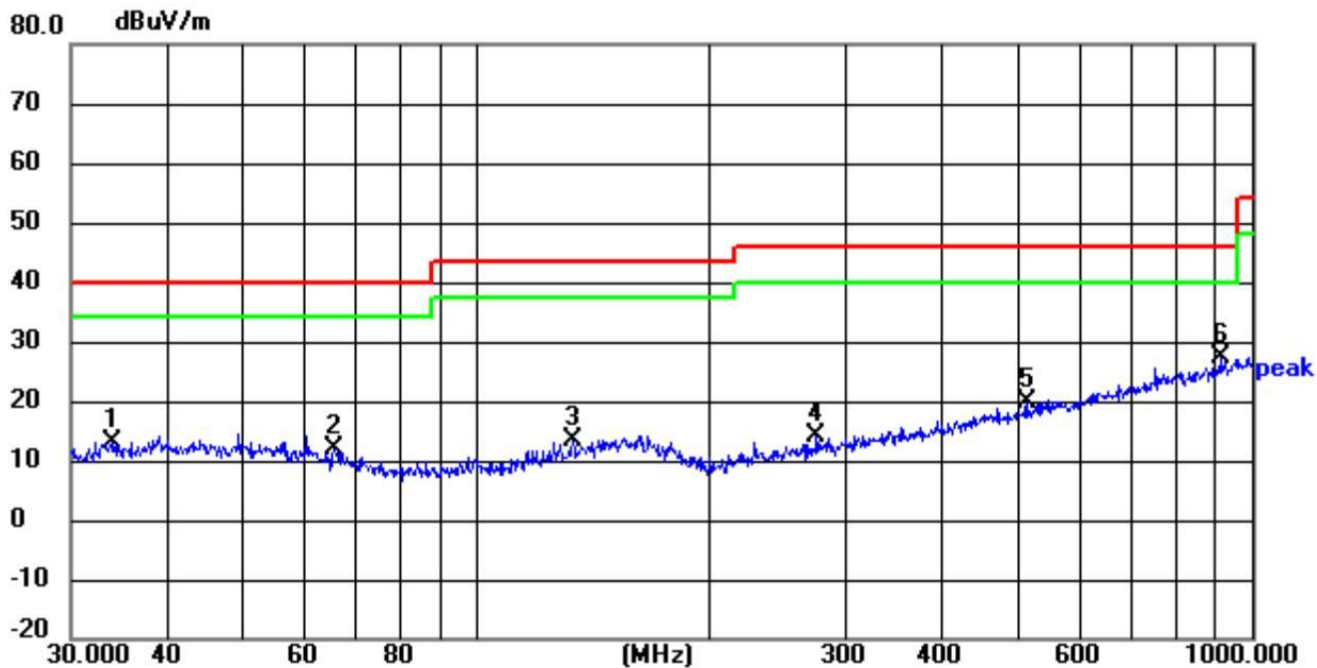
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

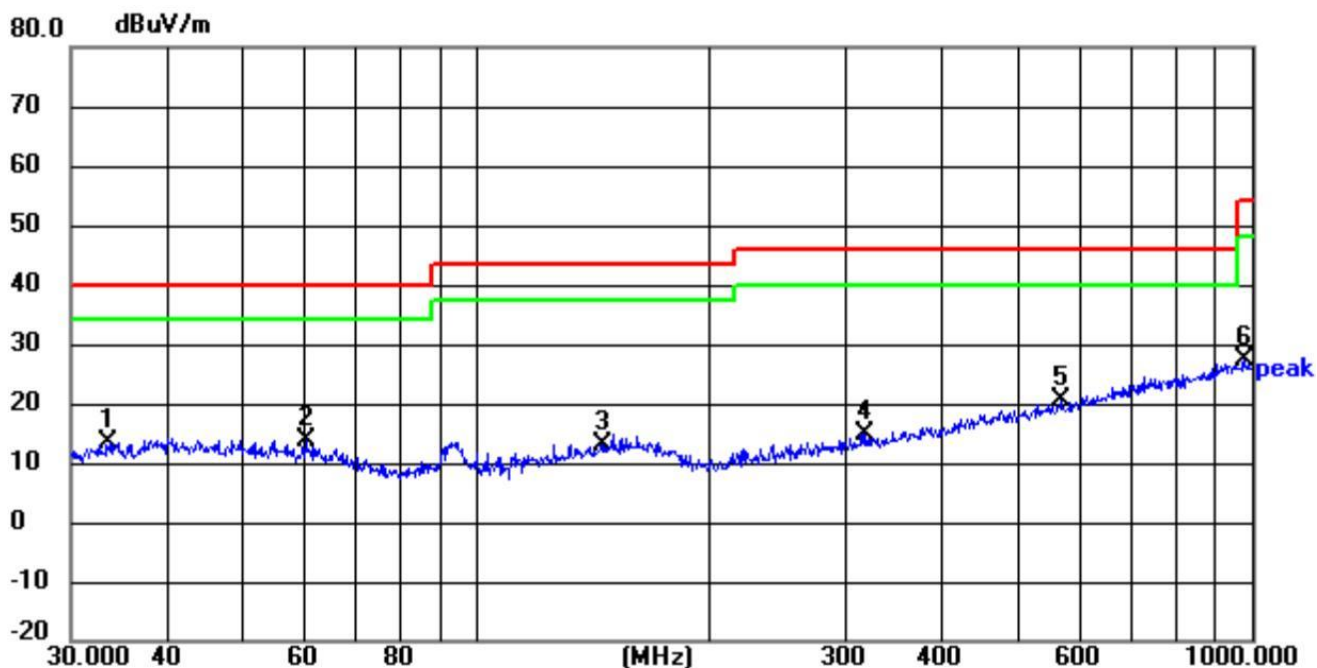
7.5 (30MHZ-1000MHZ)

Temperature:	23.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	GFSK		



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.9174	25.21	-12.12	13.09	40.00	-26.91	QP
2	65.5727	25.92	-14.07	11.85	40.00	-28.15	QP
3	133.1511	26.00	-12.77	13.23	43.50	-30.27	QP
4	274.1939	26.49	-12.37	14.12	46.00	-31.88	QP
5	513.6331	26.49	-6.67	19.82	46.00	-26.18	QP
6	909.6667	27.37	-0.07	27.30	46.00	-18.70	QP

Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	GFSK		



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.6802	25.57	-12.16	13.41	40.00	-26.59	QP
2	60.2801	27.05	-13.13	13.92	40.00	-26.08	QP
3	145.3506	24.89	-11.70	13.19	43.50	-30.31	QP
4	317.7011	26.00	-11.19	14.81	46.00	-31.19	QP
5	568.6127	26.03	-5.54	20.49	46.00	-25.51	QP
6	975.7529	26.58	0.62	27.20	54.00	-26.80	QP

Remarks:

1. Margin = Result (Result = Reading + Factor) - Limit

7.6 ABOVE 1GHZ

Low CH, Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Detector
4804	53.37	32.01	5.775	43.81	47.34	74	-26.66	Vertical	Peak
7206	49.17	35.19	6.425	42.55	48.23	74	-25.77	Vertical	Peak
9608	47.83	37.32	7.274	41.74	50.68	74	-23.32	Vertical	Peak
12010	*					74		Vertical	
14412	*					74		Vertical	
4804	54.17	32.01	5.775	43.81	48.14	74	-25.86	Horizontal	Peak
7206	49.86	35.19	6.425	42.55	48.92	74	-25.08	Horizontal	Peak
9608	47.19	37.32	7.274	41.74	50.04	74	-23.96	Horizontal	Peak
12010	*					74		Horizontal	
14412	*					74		Horizontal	

- Note:
- 1.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

Middle CH Peak-AVG

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
4882	54.73	32.16	5.824	43.69	49.03	74	-24.97	Vertical	Peak
7323	50.82	35.39	6.491	42.41	50.29	74	-23.71	Vertical	Peak
9764	48.15	37.40	7.352	41.64	51.26	74	-22.74	Vertical	Peak
12205	*					74		Vertical	
14646	*					74		Vertical	
4882	53.91	32.16	5.824	43.69	48.21	74	-25.79	Horizontal	Peak
7323	50.46	35.39	6.491	42.41	49.93	74	-24.07	Horizontal	Peak
9764	51.73	37.40	7.352	41.64	54.84	74	-19.16	Horizontal	Peak
9764	32.64	37.40	7.352	41.64	35.75	54	-18.25	Horizontal	AVG
12205	*					74		Horizontal	
14646	*					74		Horizontal	

- Note:
- 1.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

HIGH CH PEAK-AVG

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
4960	53.13	32.74	5.874	43.56	48.18	74	-25.82	Vertical	Peak
7440	49.47	35.86	6.556	42.27	49.61	74	-24.39	Vertical	Peak
9920	49.36	37.46	7.430	41.55	52.70	74	-21.30	Vertical	Peak
12400	*					74		Vertical	
14880	*					74		Vertical	
4960	54.72	32.74	5.874	43.56	49.77	74	-24.23	Horizontal	Peak
7440	51.68	35.86	6.556	42.27	51.82	74	-22.18	Horizontal	Peak
9920	52.49	37.46	7.430	41.55	55.83	74	-18.17	Horizontal	Peak
9920	35.96	37.46	7.430	41.55	39.30	54	-14.70	Horizontal	AVG
12400	*					74		Horizontal	
14880	*					74		Horizontal	

Note:

1.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2.THE AMPLITUDE OF SPURIOUS EMISSIONS WHICH ARE ATTENUATED MORE THAN 20 DB BELOW THE LIMITS ARE NOT REPORTED.

7.7 RADIATED BAND EDGE DATA

Low CH (GFSK)

Peak

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310	57.83	27.62	3.70	47.84	41.31	74	-32.69	Horizontal
2390	56.72	27.14	3.79	47.72	39.93	74	-34.07	Horizontal
2400	58.67	27.10	3.80	47.70	41.87	74	-32.13	Horizontal
2310	56.73	27.62	3.70	47.84	40.21	74	-33.79	Vertical
2390	55.49	27.14	3.79	47.72	38.70	74	-35.30	Vertical
2400	56.14	27.10	3.80	47.70	39.34	74	-34.66	Vertical

High CH(GFSK)

Peak

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.5	56.36	27.60	3.89	47.57	40.28	74	-33.72	Horizontal
2500	58.92	27.70	3.91	47.55	42.98	74	-31.02	Horizontal
2483.5	58.88	27.60	3.89	47.57	42.80	74	-31.20	Vertical
2500	59.93	27.70	3.91	47.55	43.99	74	-30.01	Vertical

Remark.

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.
- 3.All restriction band have been tested, and only the worst case is shown in report
- 4.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

8. AVERAGE TIME OF OCCUPANCY

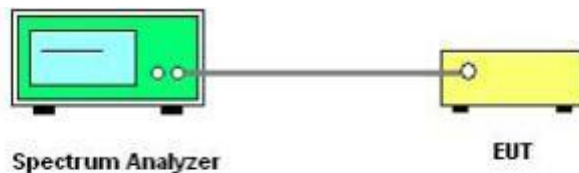
8.1 LIMIT

FCC Part 15.247, Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(1)	Average Time of Occupancy	0.4 sec	2400-2483.5

8.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set RBW = 1MHz/VBW = 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- The number of pulses in the observation period of 31.6 seconds is 102(DH5).
- To the number of pulses in the observation period of 31.6 seconds is 161(DH3).
- To the number of pulses in the observation period of 31.6 seconds is 246(DH1).

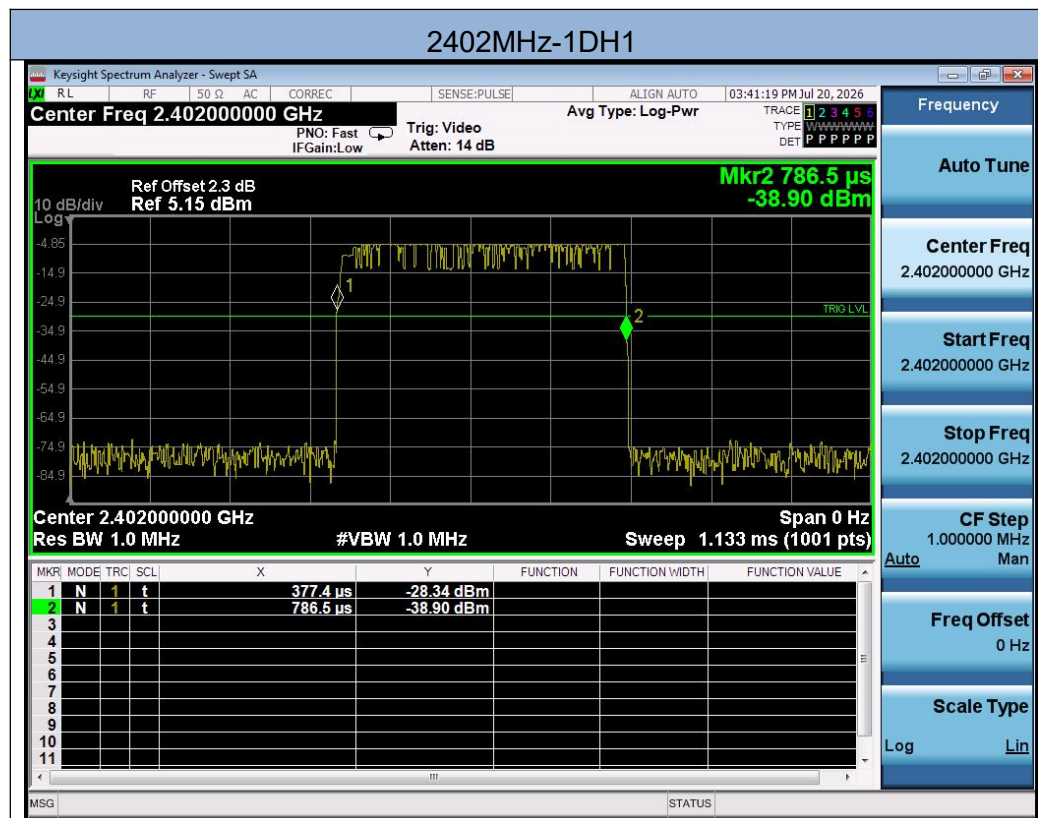
8.3 TEST SETUP

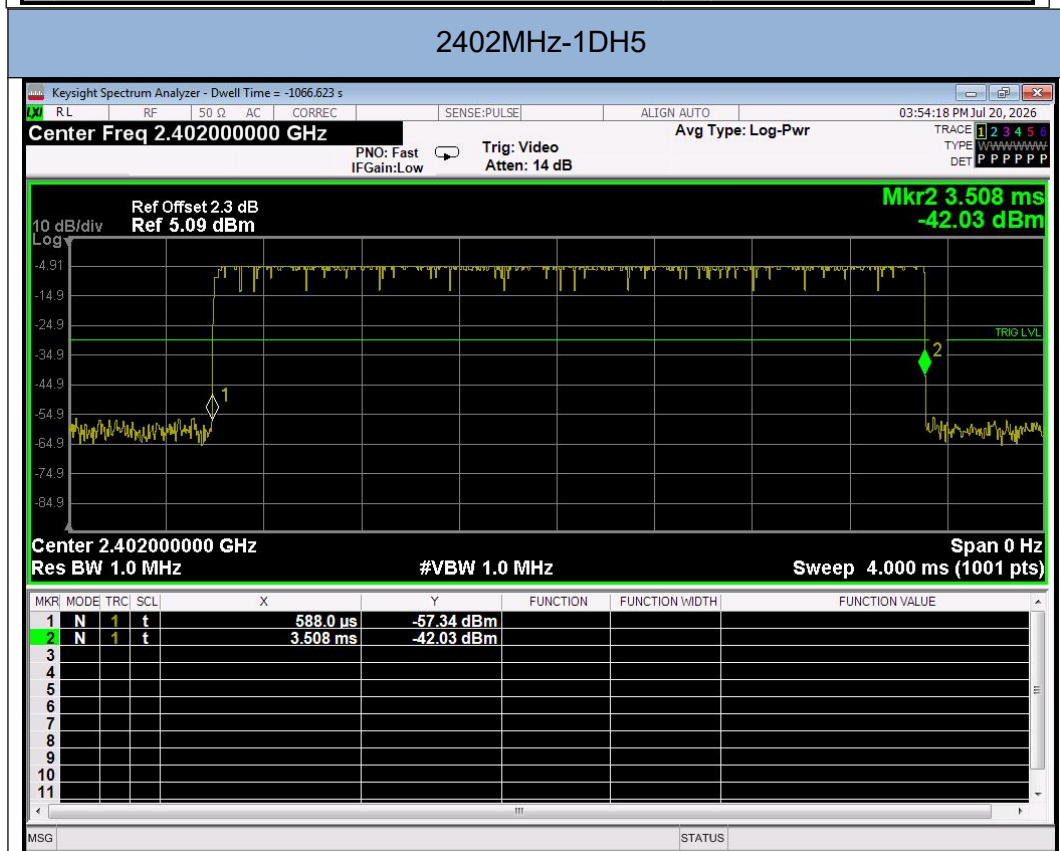
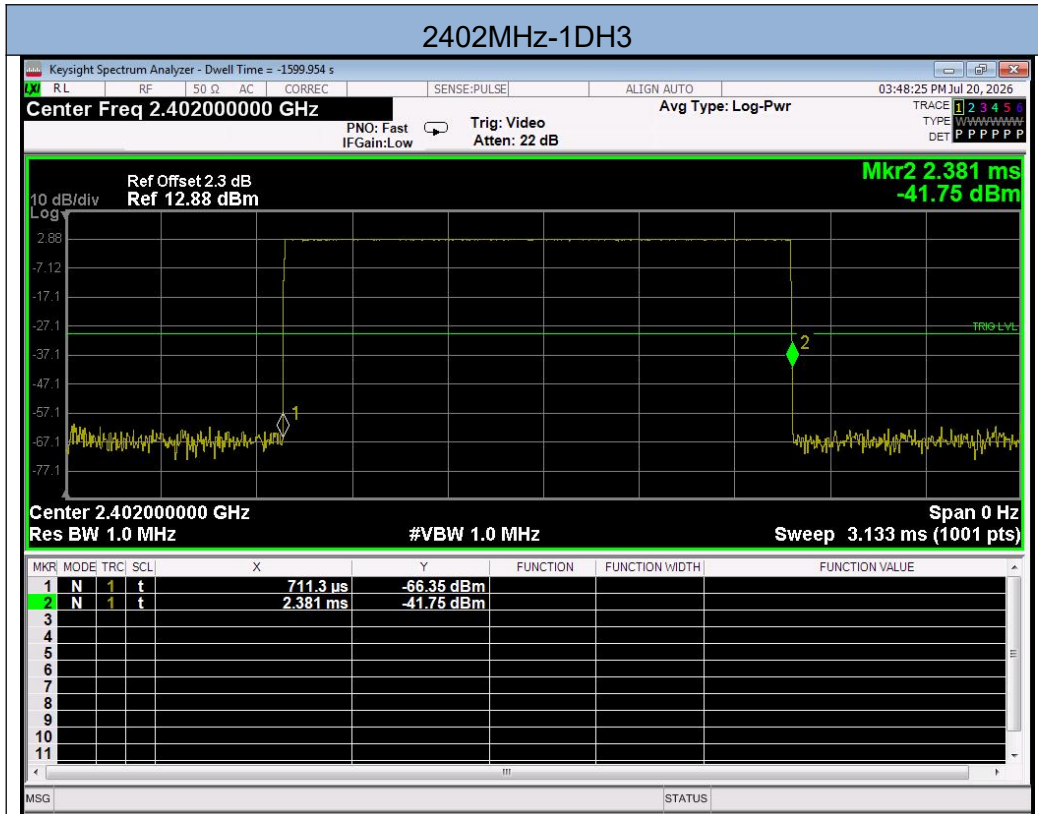


8.4 TEST RESULTS

AVERAGE TIME OF OCCUPANCY							
CONDITION	MODE	FREQUENCY (MHZ)	PULSE TIME (MS)	AVERAGE TIME OF OCCUPANCY (MS)	LIMIT (MS)	BURST NUMBER	RESULTS
NVNT	1DH1	2402	0.409	130.912	400	320	PASS
NVNT	1DH3	2402	1.67	262.190	400	157	PASS
NVNT	1DH5	2402	2.92	292.000	400	100	PASS

8.5 ORIGINAL TEST DATA





9. HOPPING CHANNEL SEPARATION MEASUREMENT

9.1 LIMIT

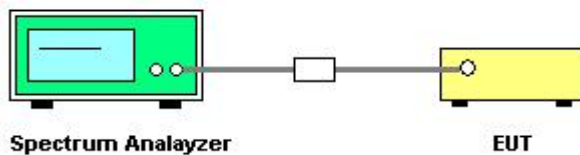
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement

9.3 TEST SETUP



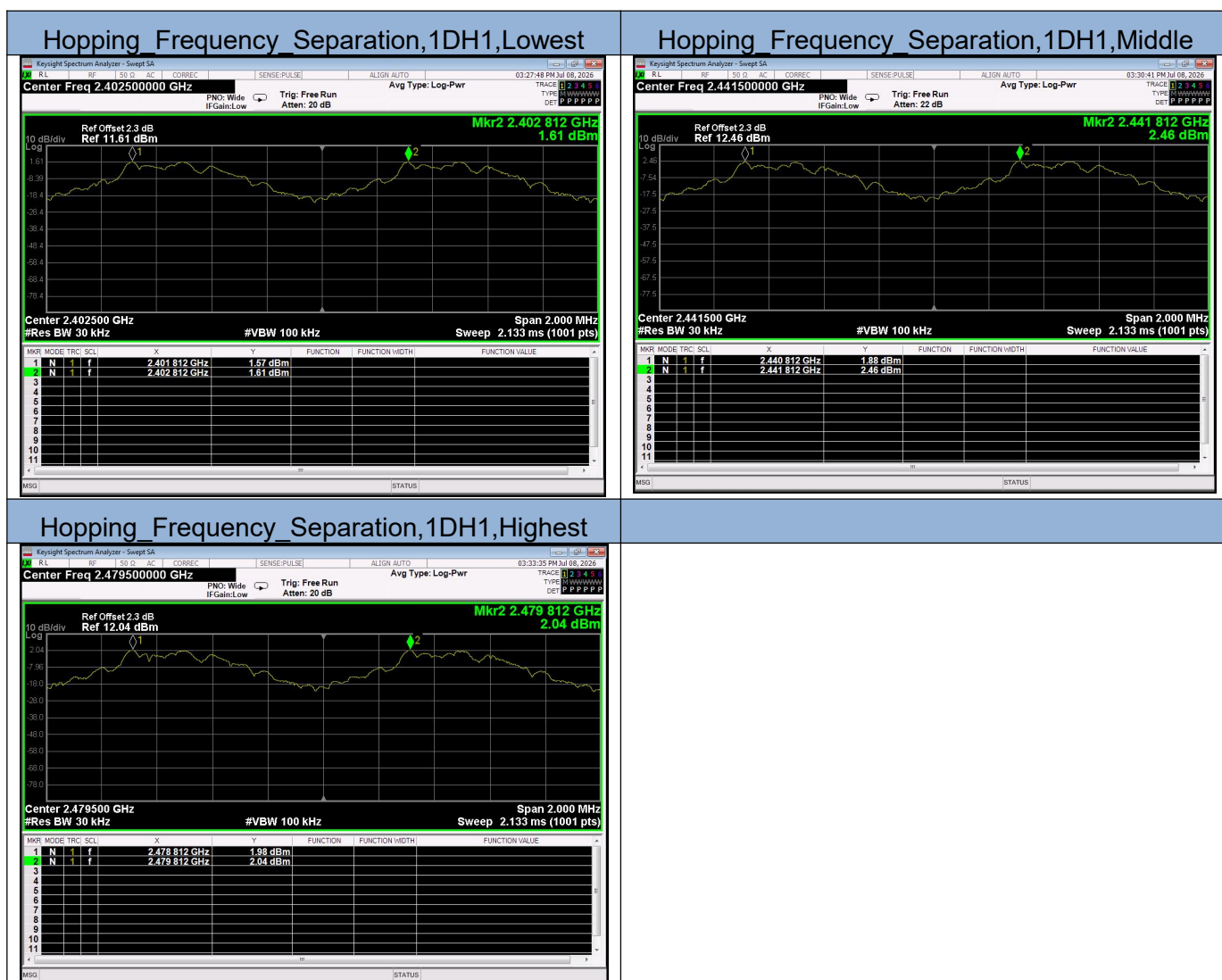
9.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Mode:	GFSK Mode	Test Voltage:	DC 3.7V

Modulation	Test Mode	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
GFSK	1DH1	2402	1	> 0.59	Pass
	1DH1	2441	1	> 0.59	Pass
	1DH1	2480	1	> 0.59	Pass



10 CONDUCTED EMISSION MEASUREMENT

10.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (4) The tighter limit applies at the band edges.
- (5) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

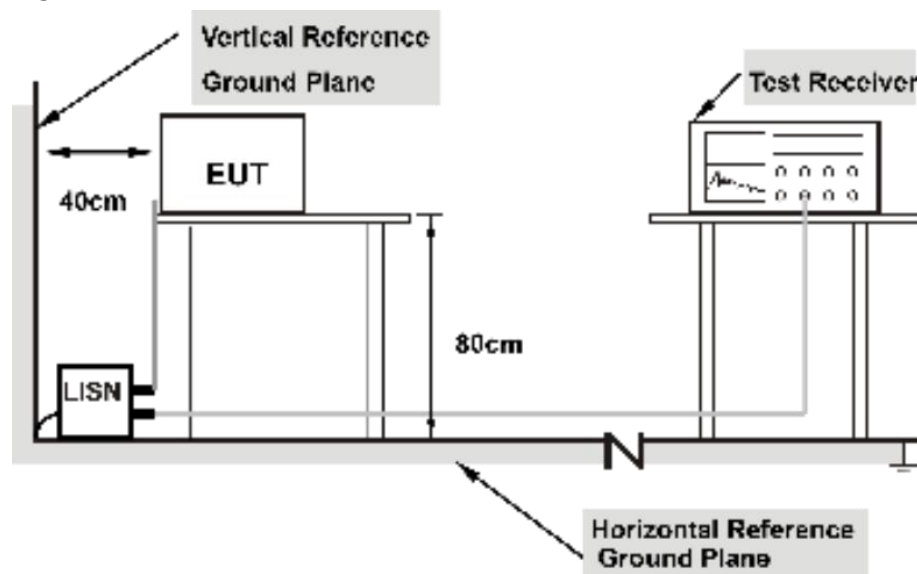
10.2 TEST PROCEDURE

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.

10.3 TEST SETUP



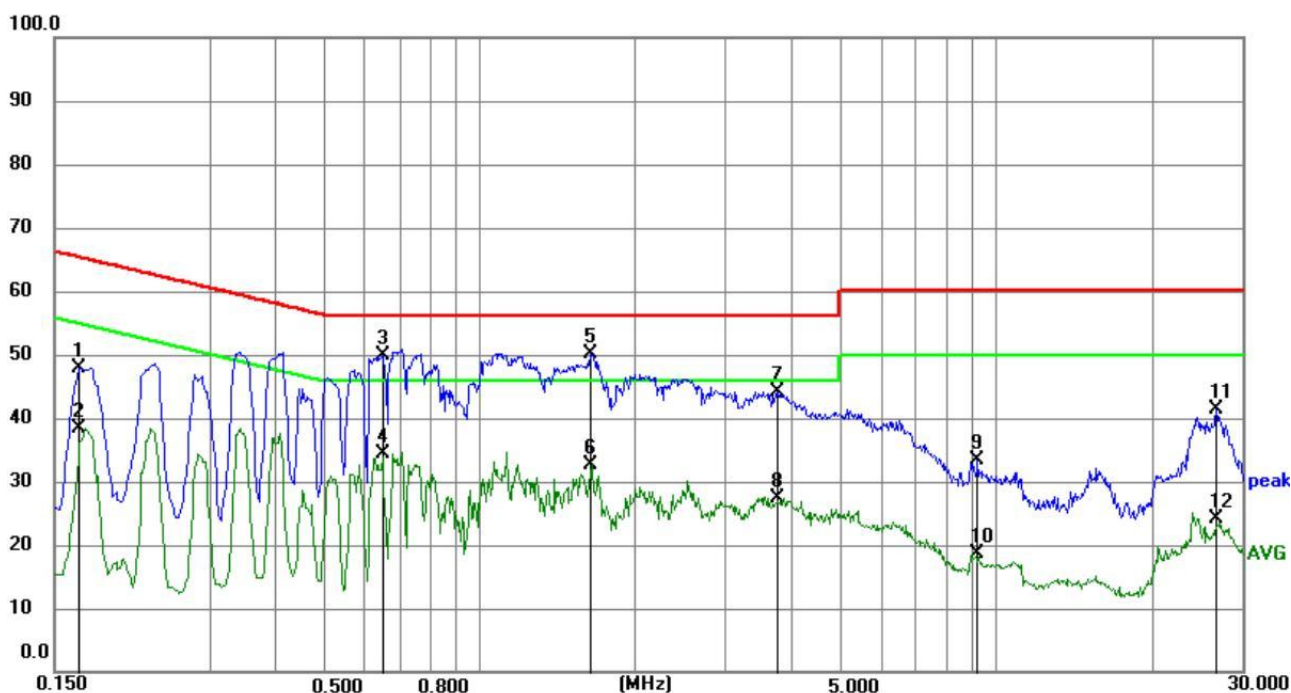
Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

10.4 TEST RESULTS

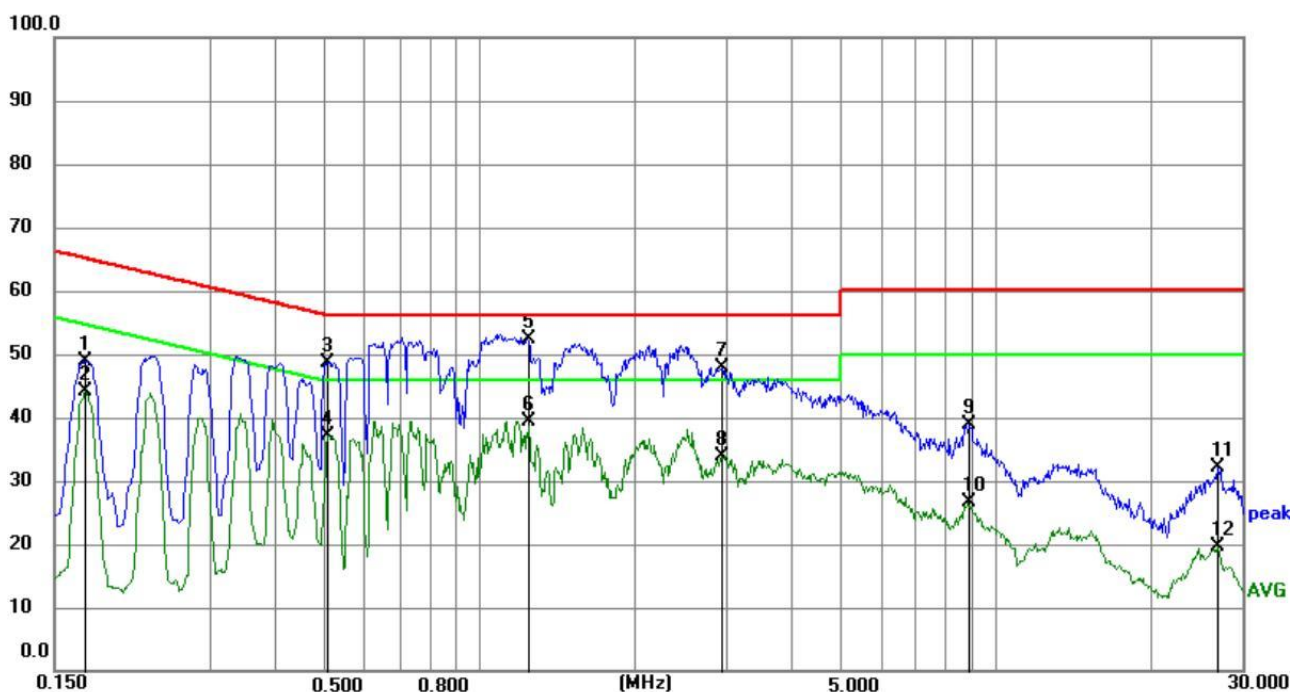
Temperature:	25℃	Relative Humidity:	50%
Test Mode:	GFSK	Test Voltage:	DC 5V Form Adapter Input AC 120V/60Hz
Phase:	L	Result:	Pass

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1680	38.06	9.88	47.94	65.06	17.12	QP
2	0.1680	28.49	9.88	38.37	55.06	16.69	AVG
3	0.6491	40.05	9.94	49.99	56.00	6.01	QP
4	0.6491	24.44	9.94	34.38	46.00	11.62	AVG
5	1.6391	40.04	10.02	50.06	56.00	5.94	QP
6	1.6391	22.53	10.02	32.55	46.00	13.45	AVG
7	3.7949	34.10	10.06	44.16	56.00	11.84	QP
8	3.7949	17.21	10.06	27.27	46.00	18.73	AVG
9	9.2084	23.19	10.16	33.35	60.00	26.65	QP
10	9.2084	8.52	10.16	18.68	50.00	31.32	AVG
11	26.7134	31.21	10.27	41.48	60.00	18.52	QP
12	26.7134	13.86	10.27	24.13	50.00	25.87	AVG



Temperature:	25°C	Relative Humidity:	50%
Test Mode:	GFSK	Test Voltage:	DC 5V Form Adapter Input AC 120V/60Hz
Phase:	N	Result:	Pass

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1723	38.93	9.94	48.87	64.85	15.98	QP
2	0.1723	34.16	9.94	44.10	54.85	10.75	AVG
3	0.5052	38.78	9.94	48.72	56.00	7.28	QP
4	0.5052	27.30	9.94	37.24	46.00	8.76	AVG
5	1.2386	42.36	10.00	52.36	56.00	3.64	QP
6	1.2386	29.47	10.00	39.47	46.00	6.53	AVG
7	2.9580	37.84	10.05	47.89	56.00	8.11	QP
8	2.9580	23.73	10.05	33.78	46.00	12.22	AVG
9	8.9070	28.90	10.07	38.97	60.00	21.03	QP
10	8.9070	16.50	10.07	26.57	50.00	23.43	AVG
11	26.9832	21.86	10.32	32.18	60.00	27.82	QP
12	26.9832	9.33	10.32	19.65	50.00	30.35	AVG



Remark:

All readings are Quasi-Peak and Average values.

11. ANTENNA REQUIREMENT

11.1 STANDARD REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 RESULT

The antennas used for this product are PCB antenna and no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.9dBi.

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