



**Spectrum Research  
& Testing Lab., Inc.**  
No.167, Ln. 780, Shan-Tong  
Rd., Ling 8, Shan-Tong Li,  
Chung-Li Dist., Taoyuan  
City 320, Taiwan (R.O.C.)

# TEST REPORT

Reference No.: A23070303  
Report No.: FCCA23070303-B0  
FCC ID : QCI-SKIWB800D3  
Page: 1 of 26  
Date: Aug. 02, 2023

Product Name: BT/BLE/WiFi 6 radio module  
Brand Name: SMART  
Model No.: SKI.WB800D.3  
Series Model: ---  
Applicant: SMART TECHNOLOGIES ULC  
3636 RESEARCH ROAD NW CALGARY, AB T2L 1Y1  
CANADA  
Date of Receipt: Jul. 03, 2023  
Finished date of Test: Jul. 27, 2023  
Applicable Standards: 47 CFR FCC Part 15 Subpart E-2021  
FCC KDB Publication 905462 D02 v02 (April 8, 2016)

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By : Jimmy Tseng , Date: Aug. 02, 2023  
(Jimmy Tseng)

Approved By : J Ho , Date: 8/2/2023  
( Johnson Ho, Director )





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## Revisions History

Report No.	Issue Date	Revisions
DGTA23070303-B0	Aug. 02, 2023	Initial issue.



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## 1. DOCUMENT POLICY AND TEST STATEMENT

### 1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- FCC Registered Test Site Number : TW1016

### 1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- DC power source from DC 5V.

### 1.3 EUT MODIFICATION

- No modification in SRT Lab.

### 1.4 DECISION RULE

- To make sure the testing report(s) meet the requirement of ISO/IEC 17025:2017 standard and meet chapter 7.1 (Review of Requests, Tenders and Contracts), chapter 7.4 (Handling of Test or Calibration Items), chapter 7.8.2 (Reporting of Results – Common Requirement for Reports (Test, Calibration or Sampling)), This decision rule will be the base of adjustment (include the disclaimer scope) from SRT LAB.
- After communicate between SRT LAB. and clients /applicants and get the agreement, SRT LAB. will do the adjustment. According to this decision rule, SRT LAB. Manager(s) will do the Pass or Fail adjustment. (But one thing need to be concerned is, not every assessing rule suits all declaration of conformity assessing actions, it should be ruled depends on product's feature, test standard, technical regulation, test results, and also acceptance of risk of both sides.)
- This report according to the "description of applied standards and statements of conformity" on the report, as the decision rule.

### 1.5 REPORTING STATEMENTS OF CONFORMITY

Base on ISO/IEC 17025, the statements of conformity requirement of testing results.

- It does not need to provide the statements of conformity.
- It need to provide the statements of conformity and
  - Use CISPR 16-4, ISO/IEC Guide 98-3, IEC Guide 115, ETSI ETR 028 speciation and it does not need to provide additional uncertainty of the testing results or data on the report(s).
  - It need to provide additional uncertainty of the testing results or data on the report(s).



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## 2. DESCRIPTION OF EUT AND TEST MODE

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	BT/BLE/WiFi 6 radio module
<b>MODEL NO.</b>	SKI.WB800D.3
<b>BRAND NAME</b>	SMART
<b>POWER SUPPLY</b>	5Vdc 1A
<b>CABLE</b>	N/A
<b>FREQUENCY BAND</b>	2400 ~ 2483.5 MHz
<b>CARRIER FREQUENCY</b>	2402 ~ 2480 MHz
<b>NUMBER OF CHANNEL</b>	79
<b>RATED RF OUTPUT POWER</b>	1.72 dBm(1.486 mW)
<b>MODULATION TYPE</b>	GFSK
<b>BIT RATE OF TRANSMITTER</b>	1 Mbps, 2 Mbps, 3Mbps
<b>ANTENNA TYPE</b>	Dipole Antenna
<b>ANTENNA GAIN</b>	3.19 dBi

**NOTE:**

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

### 2.2 DESCRIPTION OF EUT INTERNAL DEVICE

<b>DEVICE</b>	<b>BRAND / MAKER</b>	<b>MODEL #</b>	<b>FCC ID / DOC</b>	<b>REMARK</b>
RF IC	AICSEMI	AIC8800D	N/A	WIFI 6 BT5.0 Moudle
XTLA	N/A	M26.00	N/A	26MHz XTAL
Front end IC	CHIPBETTER	CB5717	N/A	WIFI 6 5G Front-end Module
Antenna	HONGFUTAI	Dipole	N/A	2.4G paek Gain 3.19dbi 602-0015-065-A
Antenna	Megahertz	Dipole	N/A	2.4G paek Gain 2.06dbi 6150-000000-36000001
Antenna	Megahertz	Dipole	N/A	2.4G paek Gain 3.17dbi 6150-015600-36000001



## 2.3 DESCRIPTION OF TEST MODE

The EUT in BR/EDR mode has 79 channels and the modulations are GFSK,  $\pi/4$  DQPSK, and 8DPSK.

Use the software in TX test mode is "SecureCRTPortable".

After pre-test in chamber and evaluate:

1. GFSK was the worst modulation, so use of GFSK for the final test mode.
2. Choose lowest, middle and highest channels for final test.
3. Three axis (X, Y and Z axis) are evaluated in chamber, the X axis is the worst in test.

Test Mode	Frequency	Conducted Emission	Radiated Emission	
1	TX1	2402 MHz	N/A	✓
2	TX2	2441 MHz	N/A	✓
3	TX3	2480 MHz	N/A	✓
4	Standby	N/A	✓	✓
5	Link	N/A	✓	✓

### NOTE:

1. Below 1 GHz were pre-tested in chamber and chosen the worst case for conducted and radiated emission test.
2. Above 1 GHz were tested individually.



## 2.4 EUT OPERATING CONDITION

1. Setup the EUT and all peripheral devices .
2. Turn on the power of all equipment and EUT.
3. Transfer board between PC and EUT. Into engineering & Standby mode.

## 2.5 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.10:2013. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID/DOC	CABLE
1	PC	ASUS	M32AA1	DoC	1.8m unshielded power cable.
2	LCD Monitor	DELL	U2311Hb	DoC	1.8m unshielded power cable. 1.5m shielded data cable.
3	Mouse	ASUS	MOBTUO	DoC	1.5m unshielded data cable.
4	Keyboard	ASUS	AW211	DoC	1.5m unshielded data cable
5	Printer	HP	C8995A	DoC	1.5m unshielded power cable. 1.5m shielded data cable.
6	USB 2.0 HDD	Terasys	F-12U	DoC	1.5m shielded data cable.
7	USB Transfer board	SMART	USB TO TTL	NA	NA

**NOTE:** For the actual test configuration, please refer to the photos of testing.





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## 2.6 CHANNEL AND FREQUENCY TABLE

Channel (CH)	Frequency (MHz)	Channel (CH)	Frequency (MHz)	Channel (CH)	Frequency (MHz)	Channel (CH)	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



### 3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

- 47 CFR Part 15, Subpart C, 15.247
- ANSI C63.10: 2013
- FCC publication KDB 558074 D01 15.247 Meas Guidance v05r02 Apr 02, 2019

All tests have been performed and recorded as the above standards.

#### 3.1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT RESULTS	RESULTS
15.207	AC Power Line Conducted Emission	PASS
15.247(d) 15.205(a) 15.209(a)	Transmitter Radiated Emissions Limit: Table 15.209	PASS
15.247(a)	20dB Bandwidth	PASS
15.247(a)	Maximum Peak Conducted Output Power	PASS
15.247(d)	Band Edge Measurement:	PASS
15.247(a)	Time of occupancy (Dwell Time) Limit : greater than 0.4 seconds	PASS
15.247(a)(b)	Quantity of hopping channel test Limit : 75 non-overlapping hopping channels	PASS
15.247(a)	Channel separation test Limit : minimum of 25 kHz or the 20 dB bandwidth	PASS

 <b>Spectrum Research &amp; Testing Lab., Inc.</b> No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)	<h1>TEST REPORT</h1>	Reference No.: A23070303 Report No.: FCCA23070303-B0 FCC ID : QCI-SKIWB800D3 Page: 11 of 55 Date: Aug. 02, 2023
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## 4. CONDUCTED EMISSION TEST

### 4.1 LIMIT

Frequency (MHz)	Class A (dB $\mu$ V)		Class B (dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 4.2 TEST EQUIPMENT

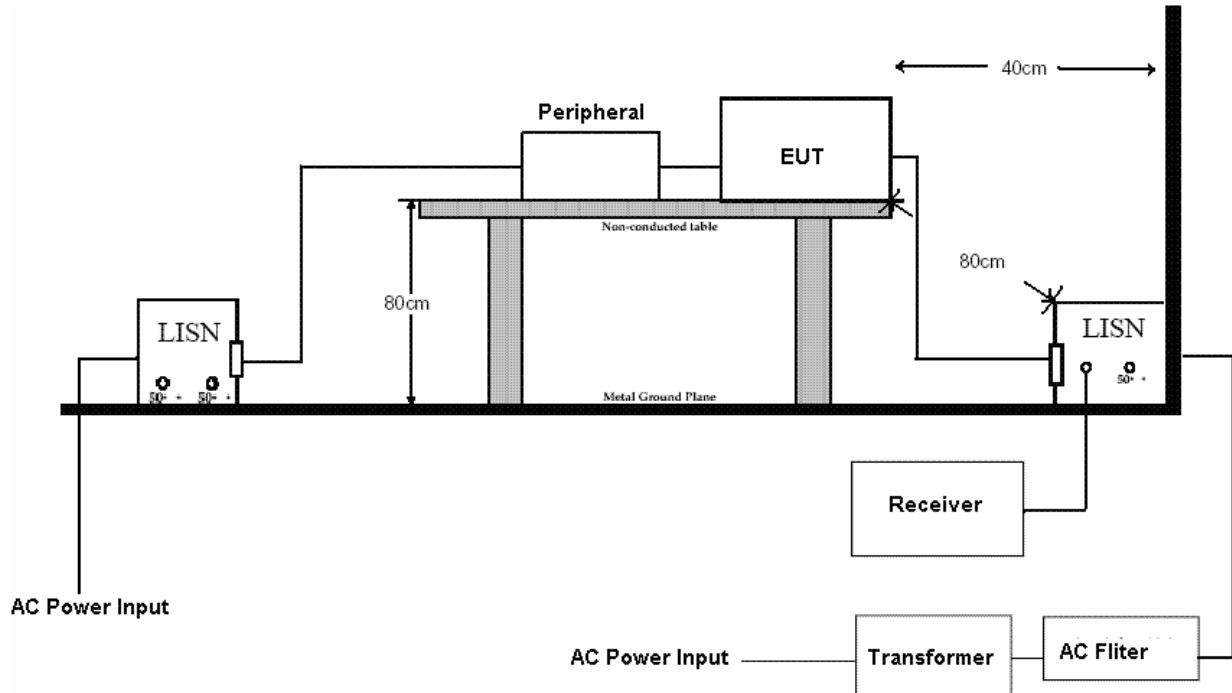
The following test equipment was used for the test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EMI TEST RECEIVER	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	APR. 26, 2024 ETC	■
LISN	50 $\mu$ H, 50 ohm	SOLAR	9252-50-R-24-BNC / 951315	FEB. 22, 2024 ETC	■
LISN	50 $\mu$ H, 50 ohm	SCHWARZBECK	NSLK 8127/ 8127-808	MAR. 08, 2024 ETC	■
50 $\Omega$ BNC TYPE TERMINATOR	50 ohm	N/A	11593A/ L1TEQU005	FEB. 14, 2024 ETC	■
50 $\Omega$ BNC TYPE TERMINATOR	50 ohm	N/A	B00-CD-357 / L1TEQU009	JUL. 14, 2024 ETC	■
COAXIAL CABLE	5 m	HUBER+ SUHNER	RG214/U(5m) / L1TCAB013	JUN. 23, 2024 ETC	■
FILTER	2 LINE, 30 A	FIL.COIL	FC-943 / 771	NCR	■
GROUND PLANE	2 m (H) x 3 m (W)	SRT	N/A	NCR	■
GROUND PLANE	2.5 m (H) x 3 m (W)	SRT	N/A	NCR	■
PULSE LIMITER	9 kHz ~ 30 MHz Insertion Loss= 10dB $\pm$ 0.3dB	ROHDE & SCHWARZ	ESH3-Z2 / L1TTES010	FEB. 16, 2024 ETC	■
THERMO-HYGRO	15 – 40 $^{\circ}$ C,	TOP	20-A / 6644	MAR. 01, 2024 ETC	■
MEASUREMENT SOFTEARE	N/A	EZ-EMC	SRT-03A1	NCR	■

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



## 4.3 TEST SETUP



### NOTE:

1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.

## 4.4 TEST PROCEDURE

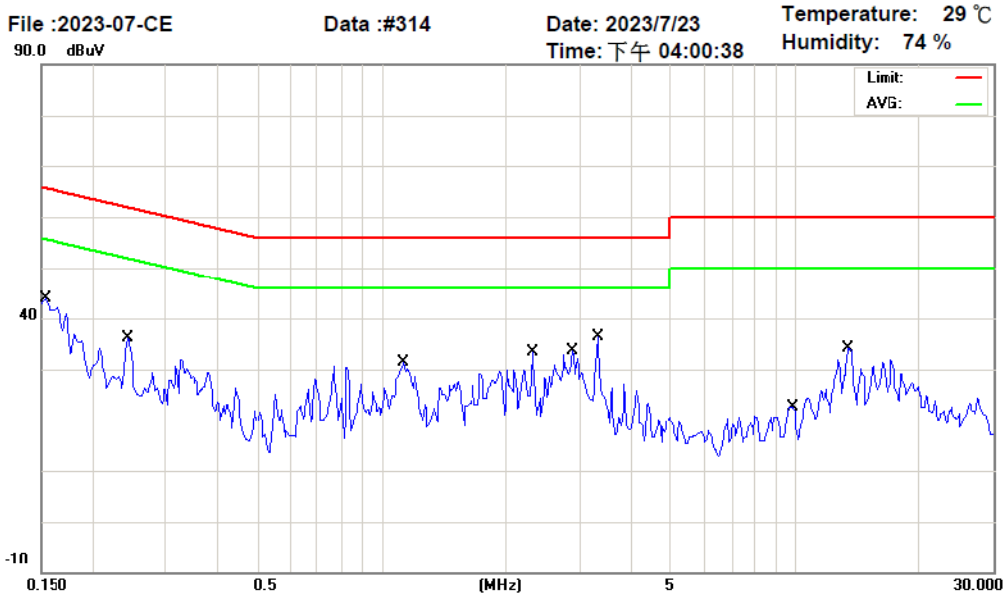
The EUT was tested according to the requirement of ANSI C63.10:2013 and EN 55022. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 $\mu$ H as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.



## 4.5 TEST RESULT

Temperature: 29 °C Humidity: 74 %RH  
 Frequency Range: 0.15 – 30 MHz Tested Mode: Standby  
 Receiver Detector: Q.P. and AV. Tested Date: Jul. 23, 2023

Power Line Measured : Line



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1539	36.44	-0.04	36.40	65.79	-29.39	QP	
	2	0.1539	12.43	-0.04	12.39	55.79	-43.40	AVG	
	3	0.2437	35.05	-0.04	35.01	61.97	-26.96	QP	
	4	0.2437	34.77	-0.04	34.73	51.97	-17.24	AVG	
	5	1.1305	27.66	-0.02	27.64	56.00	-28.36	QP	
	6	1.1305	21.57	-0.02	21.55	46.00	-24.45	AVG	
	7	2.3102	19.77	0.02	19.79	56.00	-36.21	QP	
	8	2.3102	8.29	0.02	8.31	46.00	-37.69	AVG	
	9	2.8961	20.99	0.05	21.04	56.00	-34.96	QP	
	10	2.8961	10.50	0.05	10.55	46.00	-35.45	AVG	
	11	3.3125	35.12	0.06	35.18	56.00	-20.82	QP	
*	12	3.3125	34.66	0.06	34.72	46.00	-11.28	AVG	
	13	10.0000	12.29	0.28	12.57	60.00	-47.43	QP	
	14	10.0000	7.24	0.28	7.52	50.00	-42.48	AVG	
	15	13.3750	30.68	0.34	31.02	60.00	-28.98	QP	
	16	13.3750	22.93	0.34	23.27	50.00	-26.73	AVG	

**NOTE:**

1. Measurement uncertainty is 1.61 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN  
 Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.



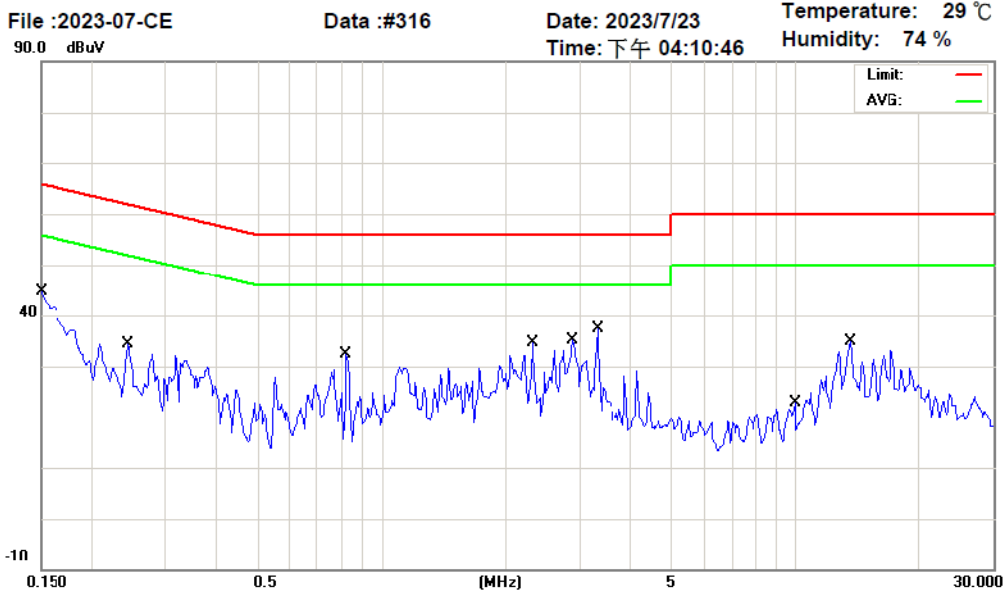
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Temperature: 29 °C Humidity: 74 %RH  
 Frequency Range: 0.15 – 30 MHz Tested Mode: Standby  
 Receiver Detector: Q.P. and AV. Tested Date: Jul. 23, 2023

Power Line Measured : Neutral



Mk.	No.	Frequency (MHz)	Reading (dBuV)	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
	1	0.1500	37.37	-0.09	37.28	66.00	-28.72	QP	
	2	0.1500	20.75	-0.09	20.66	56.00	-35.34	AVG	
	3	0.2437	32.35	-0.08	32.27	61.97	-29.70	QP	
	4	0.2437	31.82	-0.08	31.74	51.97	-20.23	AVG	
	5	0.8258	30.63	-0.06	30.57	56.00	-25.43	QP	
	6	0.8258	28.67	-0.06	28.61	46.00	-17.39	AVG	
	7	2.3141	24.30	-0.01	24.29	56.00	-31.71	QP	
	8	2.3141	8.38	-0.01	8.37	46.00	-37.63	AVG	
	9	2.8883	21.59	0.02	21.61	56.00	-34.39	QP	
	10	2.8883	9.28	0.02	9.30	46.00	-36.70	AVG	
	11	3.3125	35.83	0.03	35.86	56.00	-20.14	QP	
*	12	3.3125	35.38	0.03	35.41	46.00	-10.59	AVG	
	13	10.0000	12.67	0.25	12.92	60.00	-47.08	QP	
	14	10.0000	7.54	0.25	7.79	50.00	-42.21	AVG	
	15	13.5742	30.97	0.30	31.27	60.00	-28.73	QP	
	16	13.5742	23.09	0.30	23.39	50.00	-26.61	AVG	

**NOTE:**

1. Measurement uncertainty is 1.61 dB.
2. Result = Reading + Correction factor.
3. Corrected Factor = Cable loss + Insertion loss of LISN  
 Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin = Result – Limit.



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## 5. RADIATED EMISSION TEST

### 5.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	FIELD STRENGTH (microvolts/meter)	DISTANCE (m)	FIELD STRENGTH (dBµV/m)
0.009 - 0.490	2400/F(kHz)	300	67.6-20log(kHz)
0.490 - 1.705	24000/F(kHz)	30	87.6-20log(kHz)
1.705 - 30	30	30	30
30 - 88	100	3	40.0
88 - 216	150	3	43.5
216 - 960	200	3	46.0
≥ 960	500	3	54.0

**NOTE:**

- 30 dBuV (in 30m) = 70 dBuV (in 3m).
- In the emission tables above , the tighter limit applies at the band edges.
- Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.

FCC Part 15, Section 15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0



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## 5.2 TEST EQUIPMENT

Below 1 GHz The following test equipment was used during the radiated emission test:

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EMI Test Receiver	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	APR. 26, 2024 ETC	■
LOOP ANTENNA	9 kHz ~ 30 MHz	ROHDE & SCHWARZ	HFH2-Z2 / 860605/002	JUL. 19, 2024 ETC	■
Biconical Antenna	30 MHz ~ 200 MHz	EMCO	3108 / 2380	MAY. 01, 2024 ETC	■
Log Periodic Antenna	200 MHz ~ 1 GHz	EMCO	3146 / 9002-2686	MAY. 01, 2024 ETC	■
Open Area Test Site	3 ~ 10 M Measurement	SRT	A02 / SRT002	MAR. 07, 2024 SRT	■
Coaxial Cable	9 kHz ~ 1 GHz	TIMES	LMR-400(30m) / L1TCAB014	Jul. 06, 2024 ETC	■
Coaxial Cable	9 kHz ~ 1 GHz	Time	LMR-400 (#2m) / L1TCAB012	MAR. 20, 2024 ETC	■
Filter	2 LINE, 30 A	FIL.COIL	FC-943 / 869	NCR	■
CDN	0.15 MHz ~ 300 MHz	LUTHI	CDN L-801 M2/M3 / 2790	JUN. 10, 2024 ETC	□
Pre-Amplifier	0.1 MHz ~ 1.3 GHz	HP	8447D / 2944A06746	APR. 19, 2024 ETC	■
Thermo-Hygro	15 ~ 40°C, 0 ~ 100% RH	TOP	20-A / 9326	MAR. 26, 2024 ETC	■

**NOTE:** The Open Area Test Site (SRT-1) is registered by FCC with No. 90957





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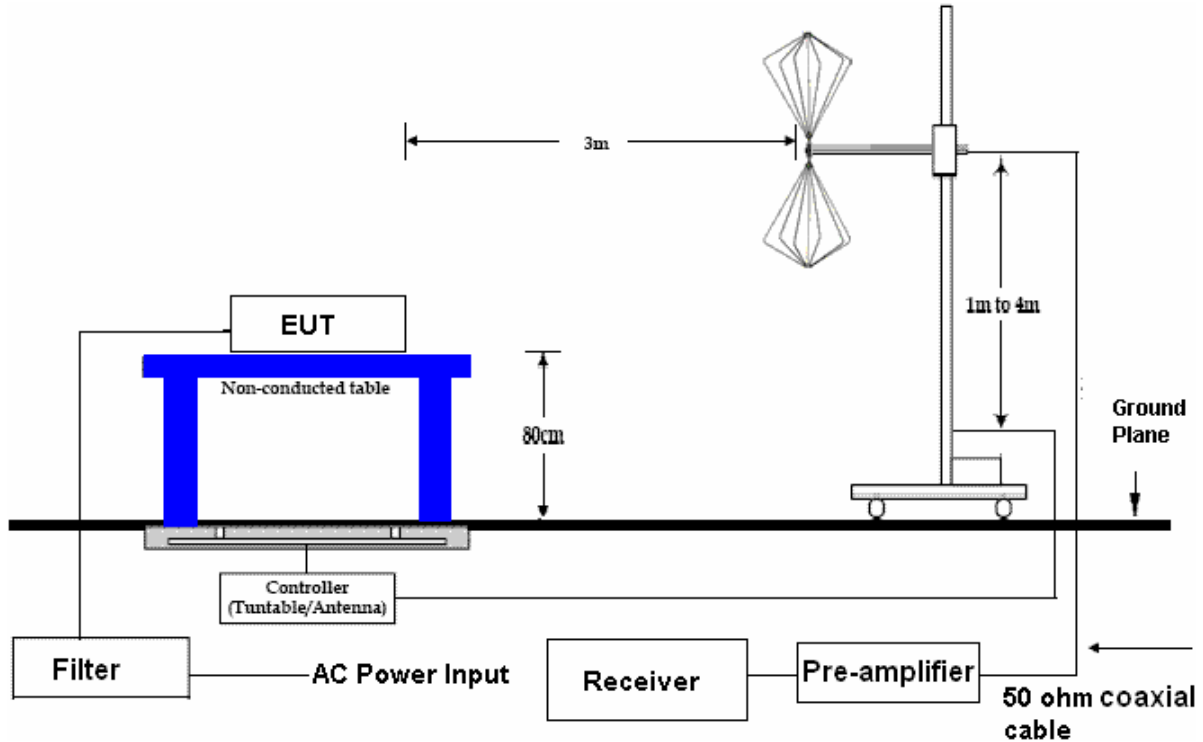
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Above 1 GHz The following test equipment was used during the radiated emission test:

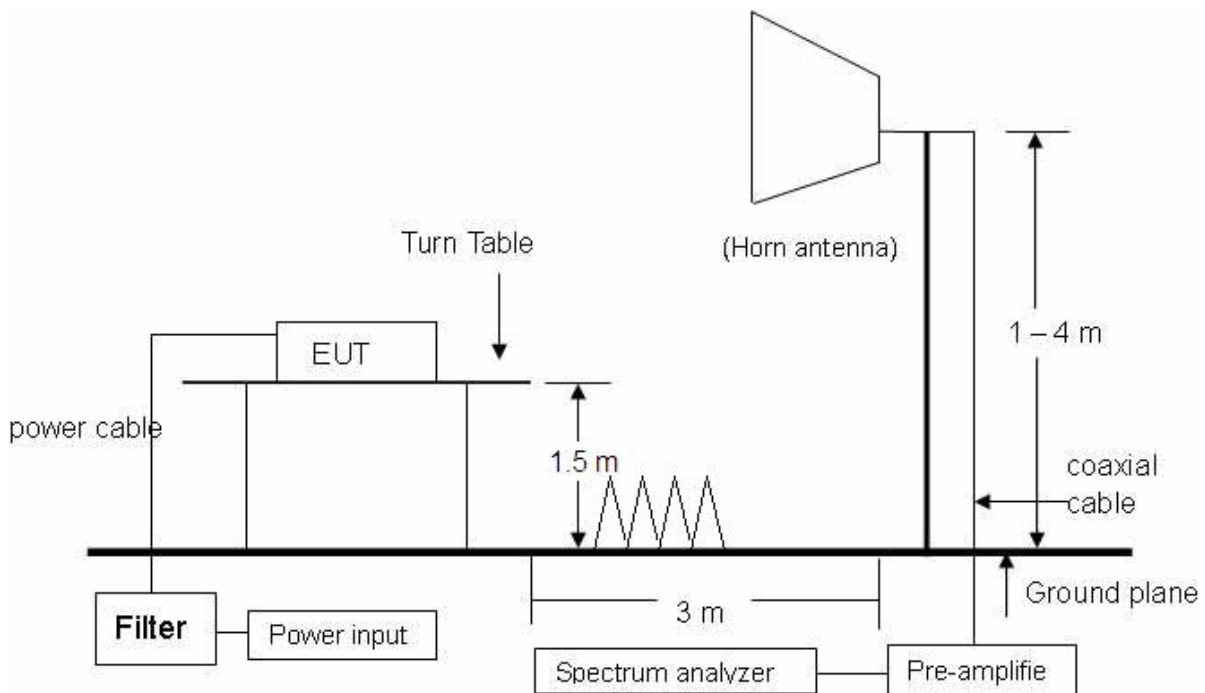
Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center	Final Test be Used
EXA Signal Analyzer	10Hz ~ 44 GHz	KEYSIGHT	N9010A / MY56480554	Jul. 10, 2024 ETC	■
Pre-Amplifier	1 GHz ~ 26.5 GHz	AGILENT	8449B / 3008A01995	MAR. 06, 2024 ETC	■
Horn Antenna	1 GHz ~ 18 GHz	EMCO	3115 / 9602-4681	FEB. 23, 2024 ETC	■
Horn Antenna	18 ~ 40 GHZ	ETS-LINDGREN	3116 / 2567	MAY.13, 2024 ETC	■
Anechoic Chamber	3 M Measurement	SRT	A01 / SRT001	JUN. 22, 2024 SRT	■
RF Cable	Up to 18 GHz 6 m*2	EMCI	EMC107-SM-6000 / 230726	JUN. 14, 2024 ETC	■
RF Cable	Up to 18 GHz 1.5 m	JYEBAO	A30A30-L 142 / EQF-0035(001)	FEB. 16, 2024 ETC	■
K-Type Cable	Up tp 40 GHz 3 m	HUBER+ SUHNER	SF102-46/2*11SK252 / MY2611/2	APR. 24, 2024 ETC	■
K-Type Cable	Up to 40 GHz, 1 m	HUBER+ SUHNER	SF102/2*11SK252 / MY3331/2	FEB. 13, 2024 ETC	■
Filter	2 Line, 30 A	FIL.COIL	FC-943 / 869	NCR	■
Thermo-Hygro	15 ~ 40 °C, 0 ~ 100% RH	TOP	20-A / 6644	MAR. 01,2024 ETC	■
Measurement Software	N/A	EZ-EMC	SRT-03A1	NCR	■
Notch filter	NF2400-2500 MHZ	EMCI	NF5150-5350	Dec.8.2023 ETC	■



## 5.3 TEST SET-UP 30 MHz ~ 1 GHz



## Above 1 GHz



**NOTE:** The EUT system was put on a Styrofoam table with 1.5m heights above a ground plane. For the actual test configuration, please refer to the photos of testing.

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## 5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.10:2013 and EN 55022. When the frequency spectrum measured started from 9 kHz to 30 MHz, then use antenna is a loop antenna. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 9kHz to 30MHz and 30 MHz to 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.



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## 5.5 TEST RESULT

Temperature: 29 °C Humidity: 76 %RH  
 Frequency Range: 30 MHz ~ 1 GHz Tested Mode: Standby  
 Detector Type: Quasi-peak IF Bandwidth: 120 kHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 24, 2023

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
183.26	3.34	13.20	27.66	49.05	37.93	43.5	-5.57	67	3.53
231.76	3.87	12.62	27.49	45.31	34.31	46.0	-11.69	322	3.38
276.38	4.48	13.76	27.36	45.36	36.24	46.0	-9.76	45	3.24
303.54	4.64	15.72	27.31	43.73	36.78	46.0	-9.22	204	3.15
361.74	5.17	16.08	27.70	40.83	34.38	46.0	-11.62	80	2.97
720.64	8.29	21.50	28.36	34.28	35.71	46.0	-10.29	358	1.86

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
43.58	2.01	12.60	28.27	47.83	34.17	40.0	-5.83	291	1.04
51.34	2.07	11.50	28.23	41.39	26.73	40.0	-13.27	166	1.07
231.76	3.87	12.62	27.49	48.44	37.44	46.0	-8.56	62	1.62
334.58	4.93	15.18	27.52	40.15	32.74	46.0	-13.26	48	1.94
355.92	5.12	15.50	27.66	41.85	34.81	46.0	-11.19	249	2.01
716.76	8.25	21.50	28.37	34.26	35.64	46.0	-10.36	217	3.13

**NOTE:**

1. Measurement uncertainty is 4.20 dB.
2. "": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

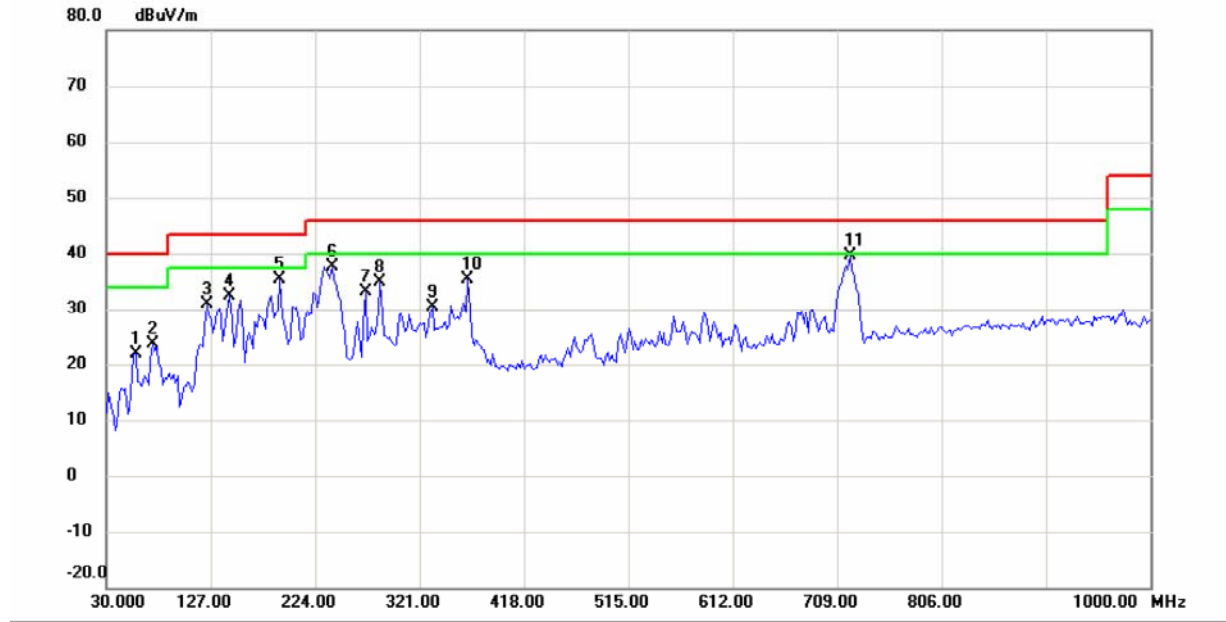


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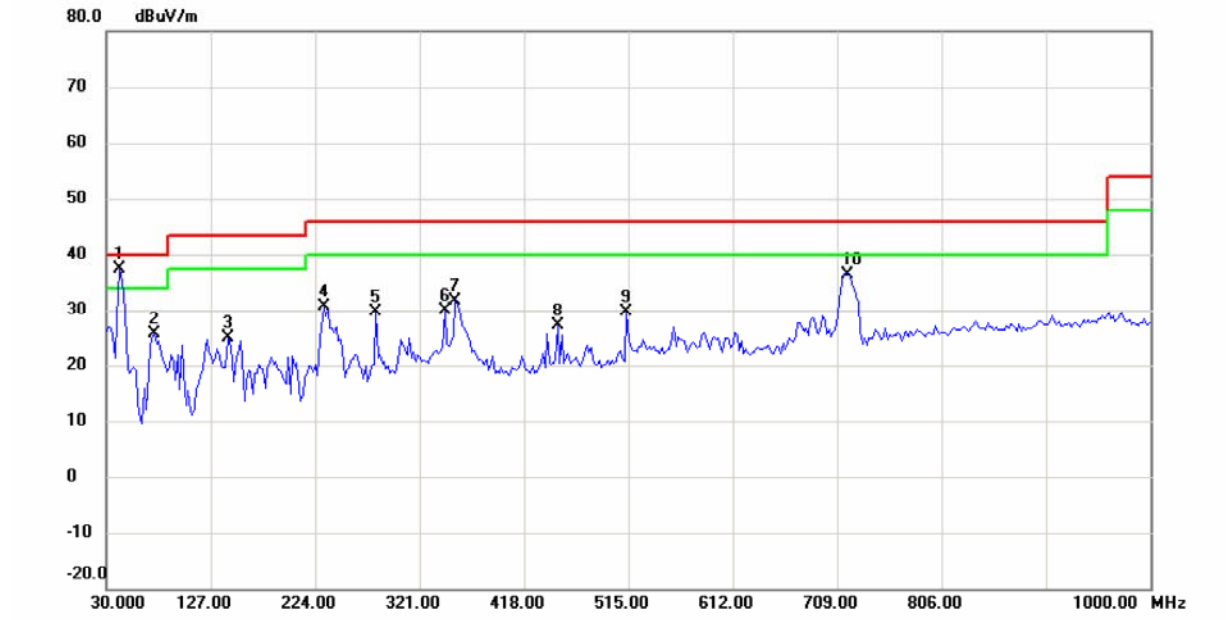
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Antenna Polarization : Horizontal



Antenna Polarization : Vertical





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Temperature: 29 °C Humidity: 76 %RH  
 Frequency Range: 30 MHz ~ 1 GHz Tested Mode: Link  
 Detector Type: Quasi-peak IF Bandwidth: 120 kHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 24, 2023

Antenna Polarization : Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
50.78	2.06	11.50	28.23	44.25	29.58	40.0	-10.42	192	3.94
43.56	2.01	12.60	28.27	42.51	28.85	40.0	-11.15	210	3.96
48.44	2.04	11.90	28.24	39.68	25.38	40.0	-14.62	198	3.94
40.27	1.98	12.90	28.28	42.15	28.75	40.0	-11.25	356	3.97
35.06	1.83	13.50	28.29	30.28	17.32	40.0	-22.68	70	3.98
720.64	8.29	21.50	28.36	35.26	36.69	46.0	-9.31	230	1.86

Antenna Polarization : Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-Amp (dB)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ (°)	EL (m)
55.48	2.09	10.80	28.21	50.16	34.83	40.0	-5.17	52	1.04
49.75	2.05	11.70	28.24	42.62	28.14	40.0	-11.86	204	1.20
47.11	2.04	11.80	28.25	40.58	26.17	40.0	-13.83	50	1.64
39.12	1.95	13.00	28.28	41.32	27.99	40.0	-12.01	328	2.45
37.50	1.89	13.20	28.29	39.68	26.49	40.0	-13.51	328	2.50
39.23	1.95	13.00	28.28	35.24	21.91	40.0	-18.09	183	3.13

**NOTE:**

1. Measurement uncertainty is 4.20 dB.
2. "": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss – Pre-Amplifier.
4. The field strength of other emission frequencies were very low against the limit.

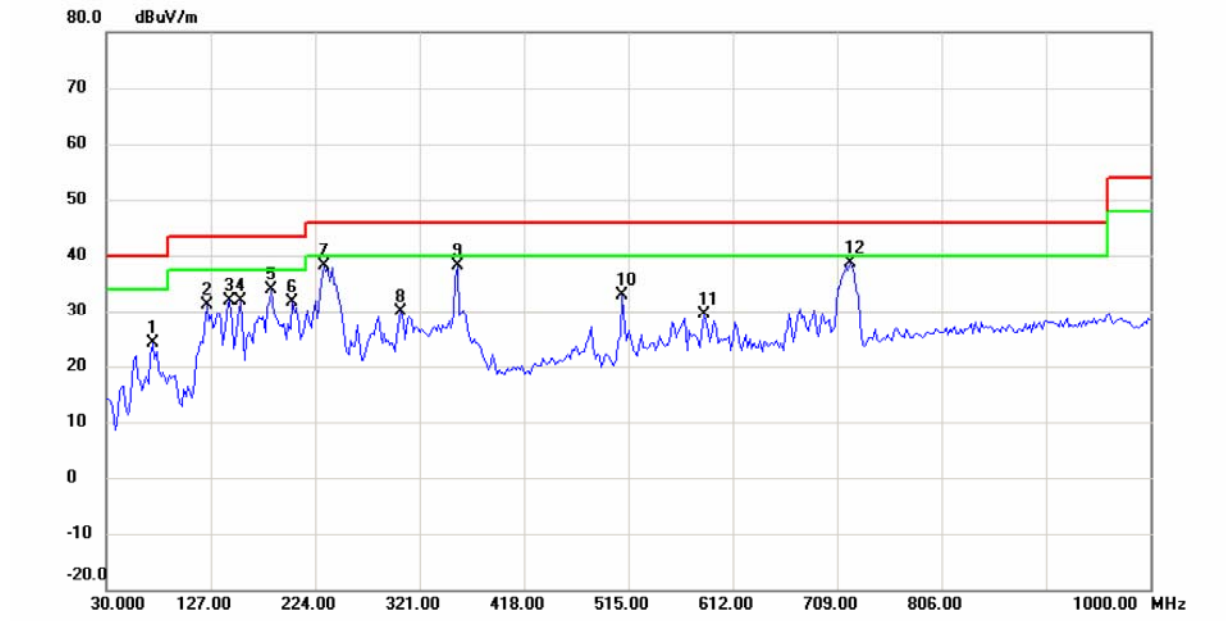


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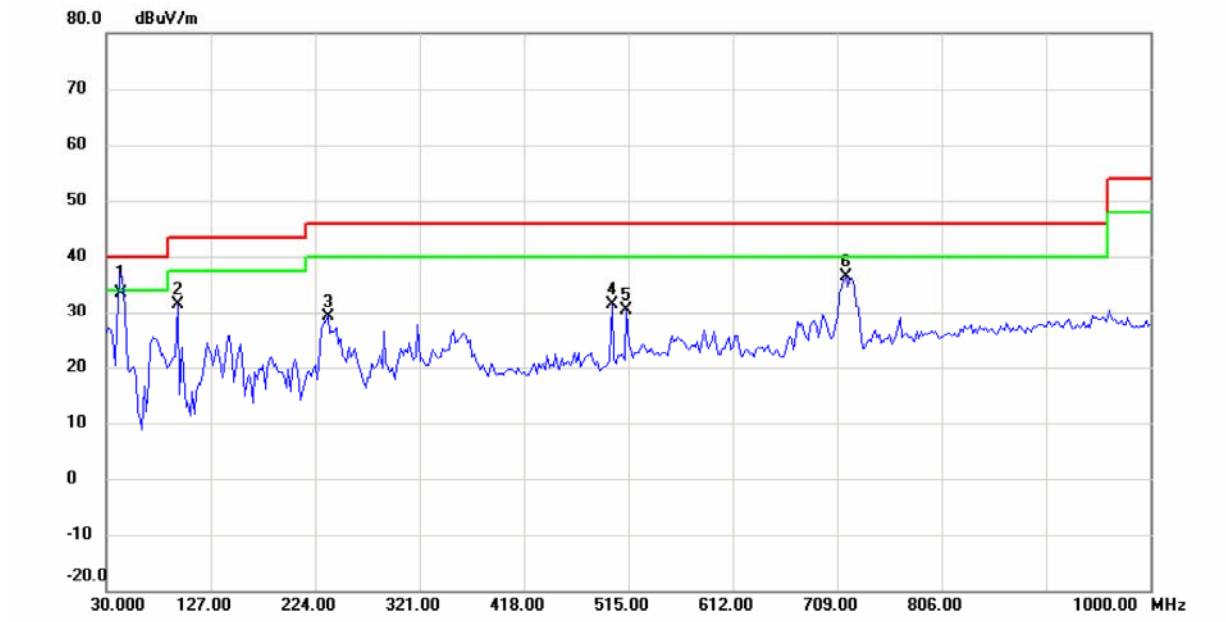
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Antenna Polarization : Horizontal



Antenna Polarization : Vertical





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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: BT\_X1  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.650	44.26	6.06	50.32	74.00	-23.68	peak	
2	*	4803.950	36.64	6.07	42.71	54.00	-11.29	AVG	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.





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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: BT\_X1  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.880	43.46	6.07	49.53	74.00	-24.47	peak	
2	*	4804.015	34.87	6.07	40.94	54.00	-13.06	AVG	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: BT\_X2  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4881.980	33.82	6.54	40.36	54.00	-13.64	AVG	
2		4881.990	43.12	6.54	49.66	74.00	-24.34	peak	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



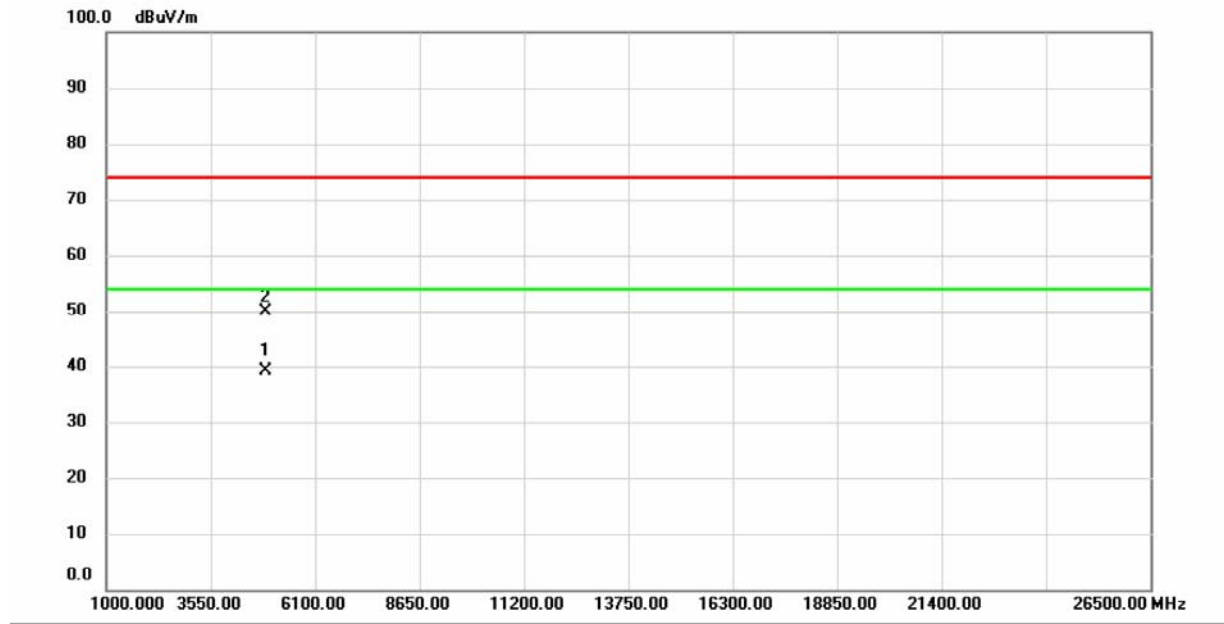
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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: BT\_X2  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4882.270	32.65	6.54	39.19	54.00	-14.81	AVG	
2		4883.170	43.31	6.55	49.86	74.00	-24.14	peak	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



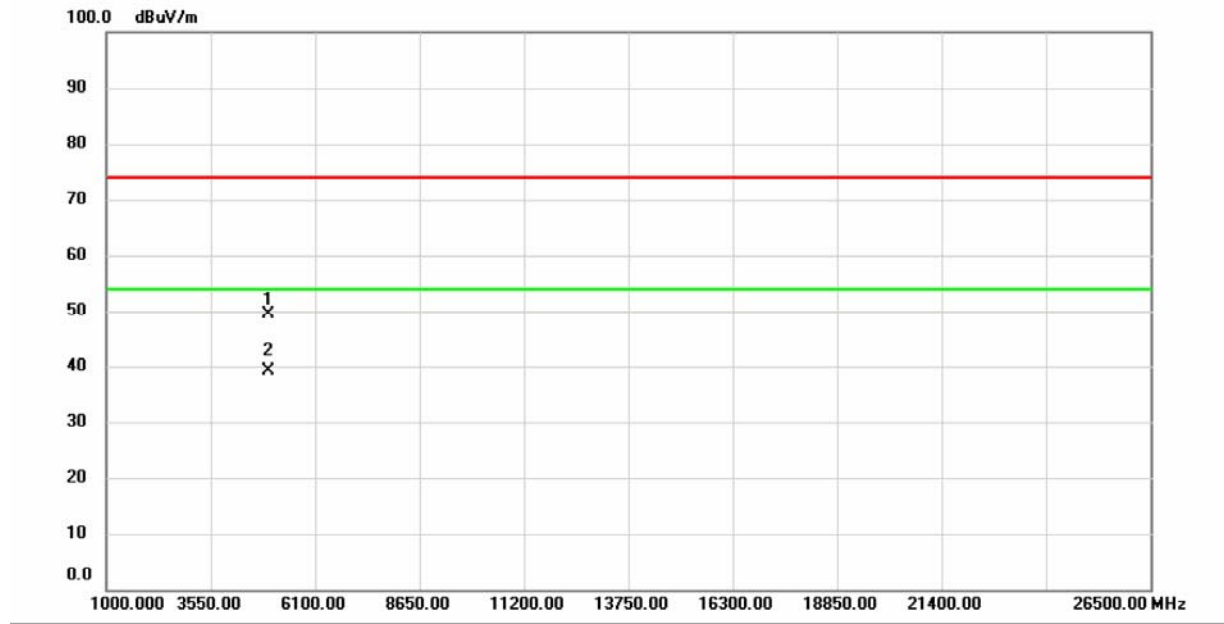
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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: BT\_X3  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4959.900	42.48	6.85	49.33	74.00	-24.67	peak	
2	*	4959.975	32.19	6.85	39.04	54.00	-14.96	AVG	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: BT\_X3  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4959.955	34.81	6.85	41.66	54.00	-12.34	AVG	
2		4960.375	43.41	6.85	50.26	74.00	-23.74	peak	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



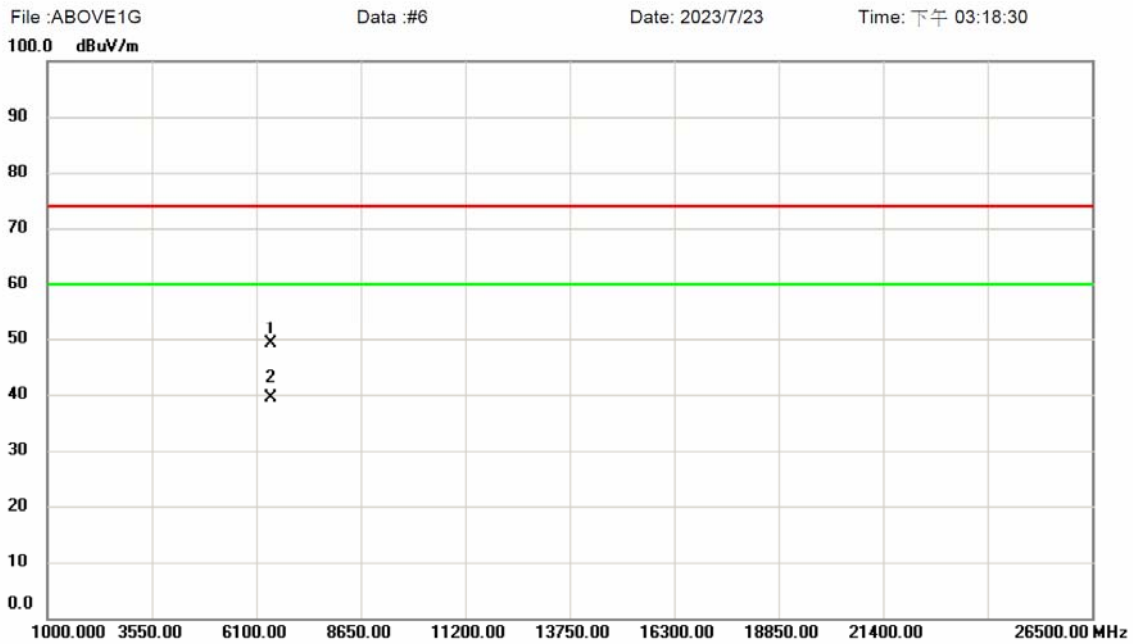
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 Date: Aug. 02, 2023

Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: Standby  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6460.000	40.41	8.70	49.11	74.00	-24.89	peak	
2	*	6460.000	30.73	8.70	39.43	60.00	-20.57	AVG	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.



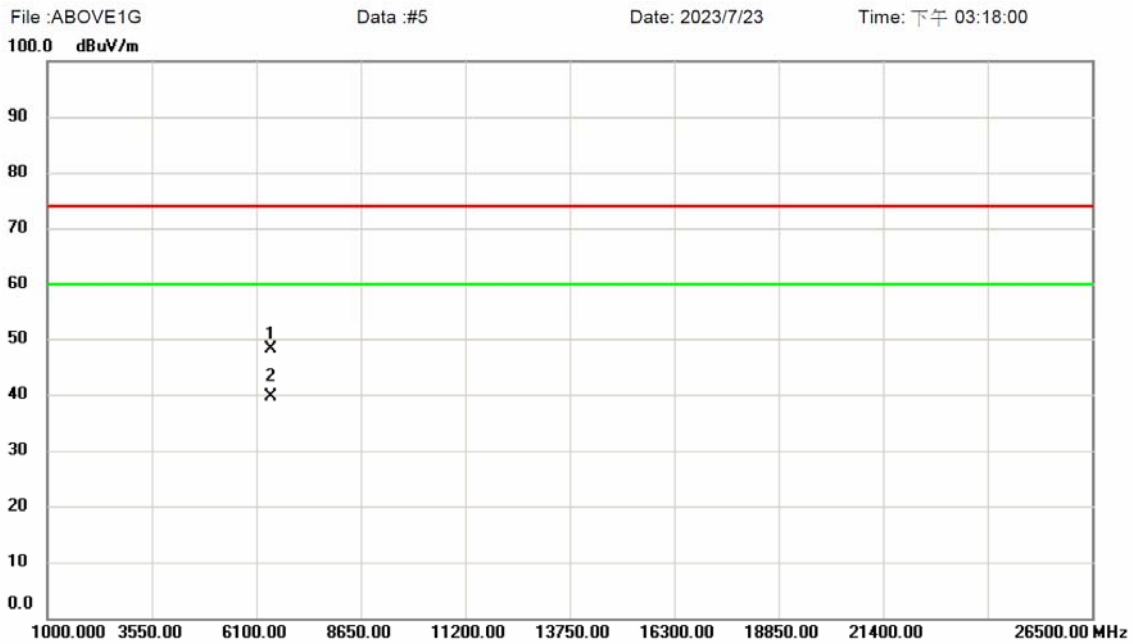
**Spectrum Research & Testing Lab., Inc.**  
 No.167,Ln. 780, Shan-Tong Rd.,Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)

# TEST REPORT

Reference No.: A23070303  
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 FCC ID : QCI-SKIWB800D3  
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Temperature: 27 °C Humidity: 76 %RH  
 Frequency Range: 1 ~ 25 GHz Tested Mode: Standby  
 Detector Type: PK. and AV. IF Bandwidth: 1 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 22, 2023

Antenna Polarization : Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6460.000	39.43	8.70	48.13	74.00	-25.87	peak	
2	*	6460.000	30.93	8.70	39.63	60.00	-20.37	AVG	

**NOTE:**

1. Measurement uncertainty is 4.04 dB.
2. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
3. The field strength of other emission frequencies were very low against the limit.
4. (F):The field strength of fundamental frequency.

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## 6. 20dB Bandwidth

### 6.1 LIMIT

FCC Part15, Subpart C Section 15.247(a).

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.

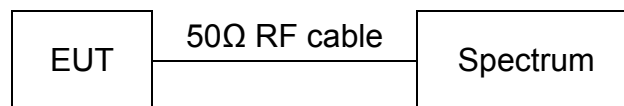
### 6.2 TEST EQUIPMENT

The following test equipment was used during the test :

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

### 6.3 TEST SET-UP



### 6.4 TEST PROCEDURE

The EUT was operated in hopping mode or any specific channel.  
Printed out the test result from the spectrum by hard copy function.

### 6.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.





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## 6.6 TEST RESULT

### 20dB Bandwidth :

Temperature:	18 °C	Humidity:	77 %RH
RBW:	30 kHz	Modulation:	GFSK
Detector:	Peak	VBW:	100 kHz
Tested By:	Jimmy Tseng	Tested Date:	Jul. 26, 2023

Channel	Frequency (MHz)	20 dB Down Bandwidth (kHz)	BW > 500 kHz
CH00	2402	949.9	PASS
CH39	2440	953.8	PASS
CH78	2480	950.2	PASS

### CH00





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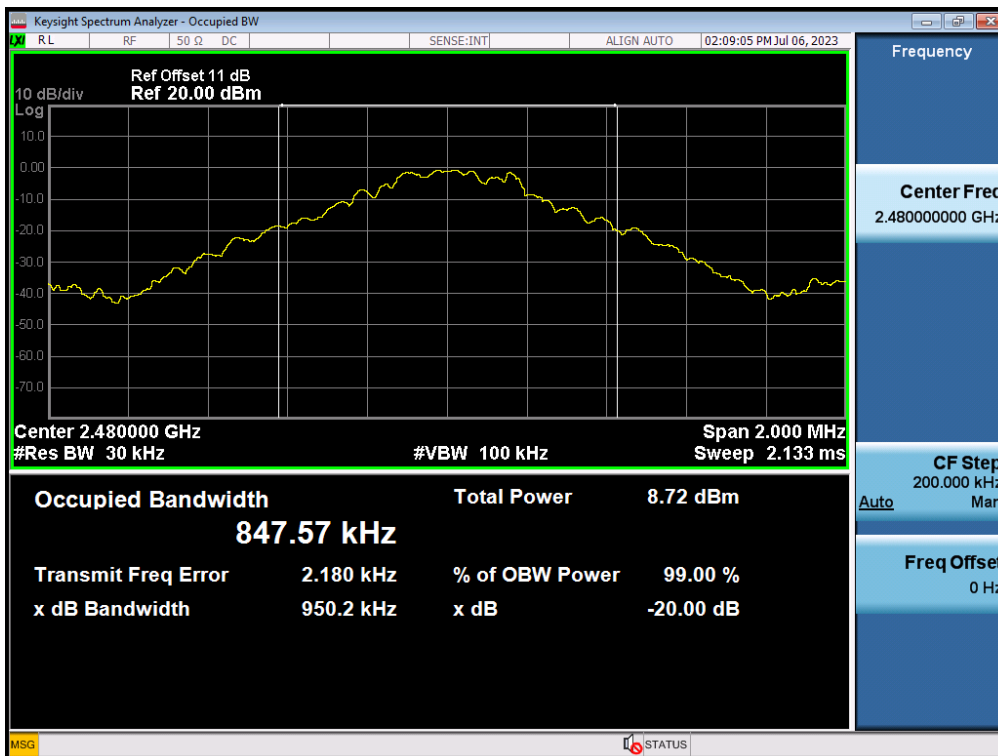
# TEST REPORT

Reference No.: A23070303  
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CH39



CH78



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## 7. PEAK CONDUCTED OUTPUT POWER TEST

### 7.1 LIMIT

FCC Part15, Subpart C Section 15.247(a).

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.

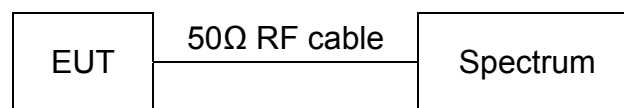
### 7.2 TEST EQUIPMENT

The following test equipment was used during the test :

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

### 7.3 TEST SET-UP



### 7.4 TEST PROCEDURE

The EUT was operating in continuous transmission mode or could control its channel. Printed out the test result from the spectrum by hard copy function.

### 7.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



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# TEST REPORT

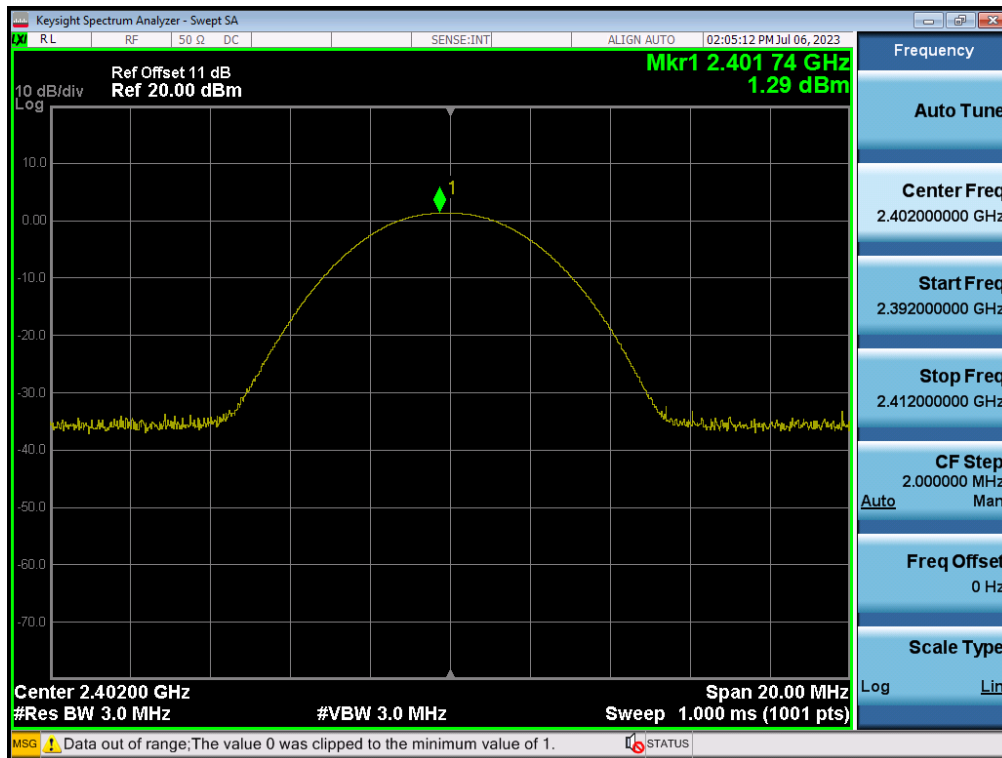
Reference No.: A23070303  
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## 7.6 TEST RESULT

Temperature: 18 °C Humidity: 77 %RH  
 Detector: Peak Modulation: GFSK  
 RBW: 3 MHz VBW: 3 MHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 26, 2023

Channel	Frequency (MHz)	Peak Conducted Output Power		Limit (dBm)
		(dBm)	(mW)	
CH00	2402	1.29	1.3459	21
CH39	2440	1.51	1.4158	21
CH78	2480	1.72	1.4859	21

CH00



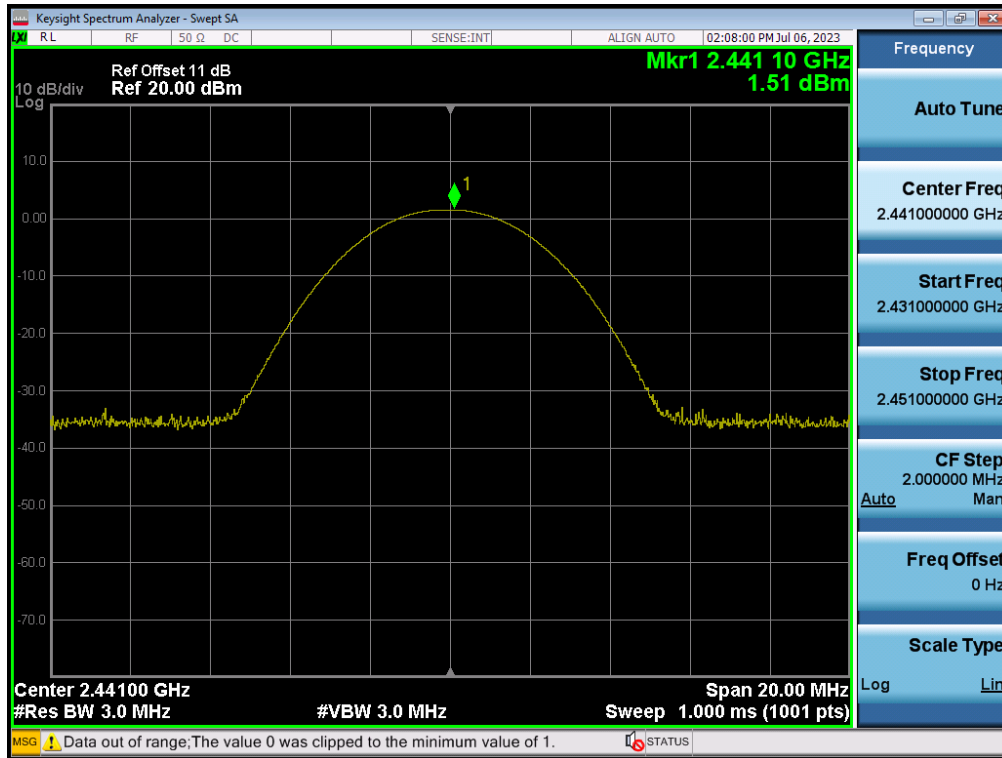


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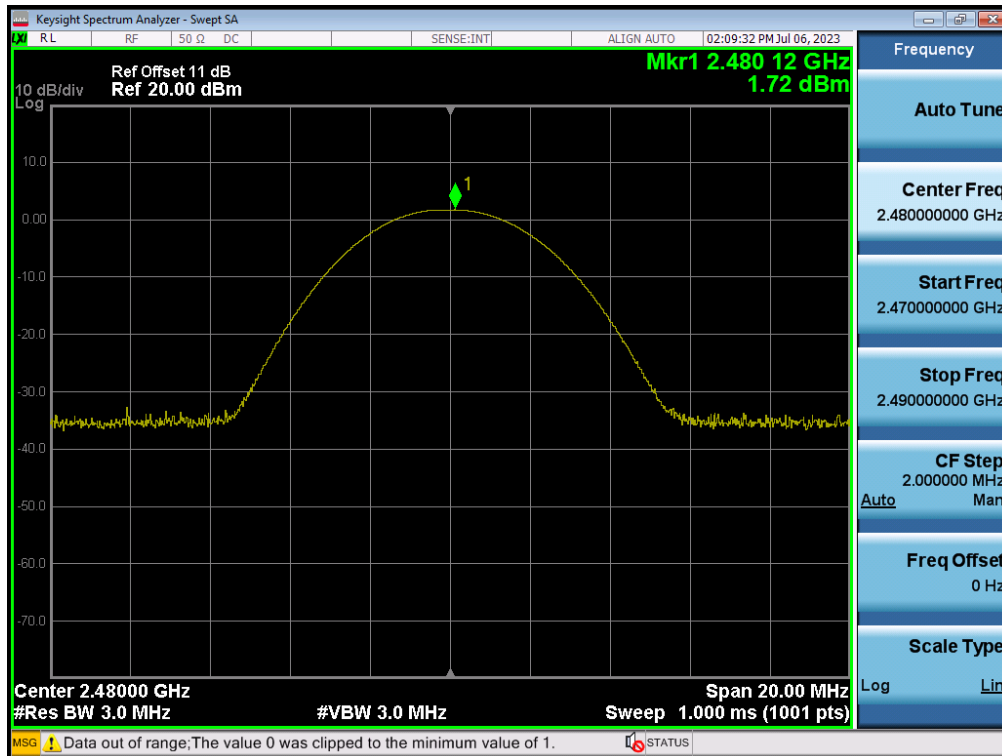
# TEST REPORT

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CH39\_1Mbps :



CH78\_1Mbps :





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## 8. BAND EDGE TEST

### 8.1 LIMIT

FCC Part15, Subpart C Section 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)).

### 8.2 TEST EQUIPMENT

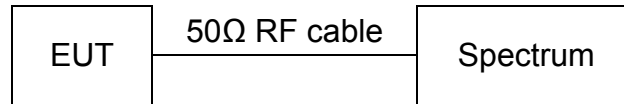
The following test equipment was used during the test :

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

**NOTE :** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

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### 8.3 TEST SET-UP



### 8.4 TEST PROCEDURE

The EUT was operating in continuous transmission mode or could control its channel. Printed out the test result from the spectrum by hard copy function.

### 8.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



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# TEST REPORT

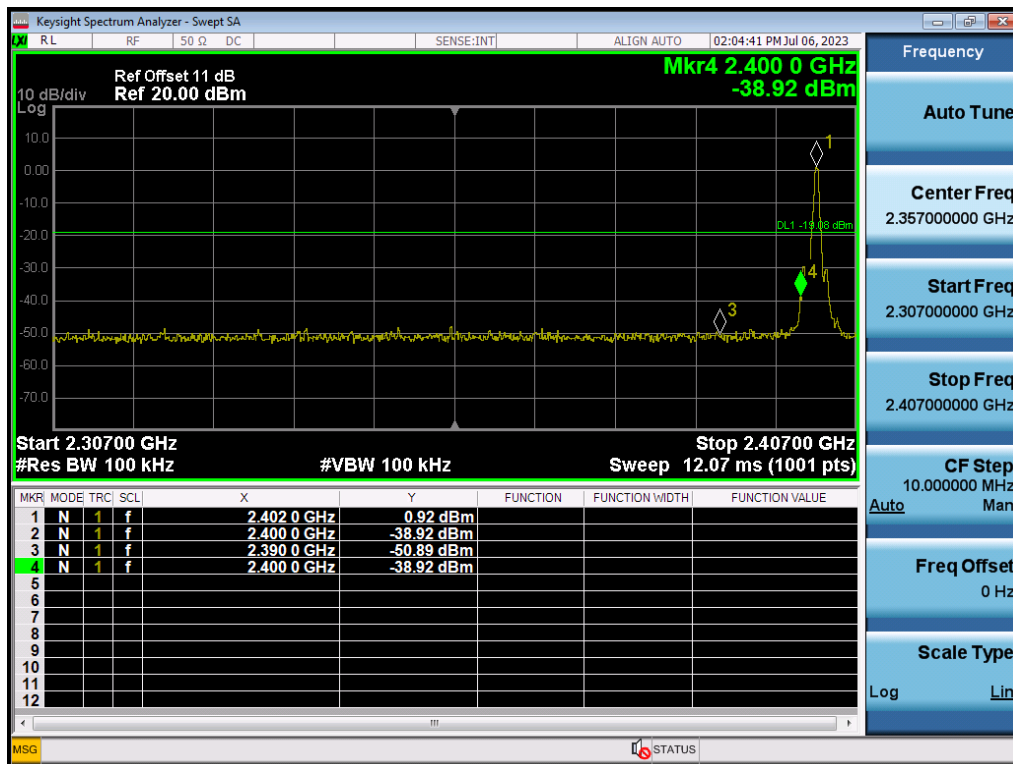
Reference No.: A23070303  
 Report No.: FCCA23070303-B0  
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## 8.6 TEST RESULT

Temperature:	21 °C	Humidity:	75 %RH
Detector:	Peak	Test Mode:	Hopping_1Mbps
RBW:	100 kHz	VBW:	100 kHz
Tested By:	Jimmy Tseng	Tested Date:	Jul. 06, 2023

Frequency (MHz)	Peak Power Output (dBm)	Emission Read Value(dBm)	Result of Band Edge (dBc)	Band Edge Limit (dBc)	Resule
2402	0.92	-50.89	51.81	20	PASS
2480	1.56	-50.90	52.46	20	PASS

CH00





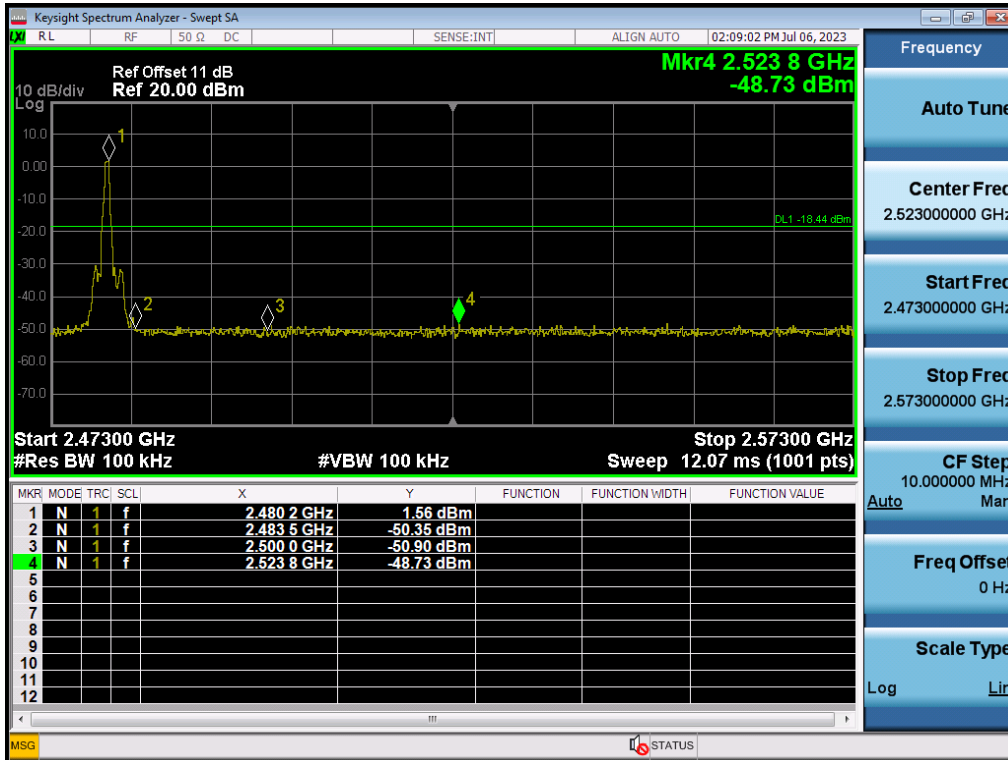


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CH78



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## 9. TIME OF OCCUPANCY (Dwell Time)

### 9.1 LIMIT

FCC Part15, Subpart C Section 15.247(a)(iii).

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

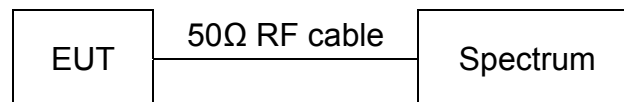
### 9.2 TEST EQUIPMENT

The following test equipment was used during the test :

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

### 9.3 TEST SET-UP



### 9.4 TEST PROCEDURE

The EUT was operating in transmitter mode and could be controlled its channel.

Printed out the test result from the spectrum by hard copy function.

### 9.5 EUT OPERATING CONDITION

1. Set the EUT under continuous transmission condition.
2. The EUT was set to the highest available power level.



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## 9.6 TEST RESULT

Temperature: 28 °C Humidity: 70 %RH  
 Spectrum Detector: PK. Modulation: GFSK  
 RBW: 1 MHz VBW: 1 MHz  
 Tested By: Jlmmxy Tseng Tested Date: Jul. 06, 2023

Channel	Frequency (MHz)	Pulse Time (ms)	Time of Occupancy (Dwell Time) (ms)	Average Time of Occupancy Limit (ms)
CH00_DH1	2402	0.367	117.44	400
CH00_DH3	2402	1.620	260.80	400
CH00_DH5	2402	2.880	307.20	400
CH39_DH1	2441	0.377	120.64	400
CH39_DH3	2441	1.620	259.20	400
CH39_DH5	2441	2.880	307.20	400
CH78_DH1	2480	0.377	120.64	400
CH78_DH3	2480	1.630	260.80	400
CH78_DH5	2480	2.880	307.20	400

**Note:** Dwell Time = 0.4(ms) x 79 = 31.6(s) hopping times of total = 1600/s

CH00\_DH1 = 0.367(ms) x (1600 / 2 / 79) x 31.6 = 117.44(ms)  
 CH00\_DH3 = 1.620(ms) x (1600 / 4 / 79) x 31.6 = 260.80(ms)  
 CH00\_DH5 = 2.880(ms) x (1600 / 6 / 79) x 31.6 = 307.20(ms)

CH39\_DH1 = 0.377(ms) x (1600 / 2 / 79) x 31.6 = 120.64(ms)  
 CH39\_DH3 = 1.620(ms) x (1600 / 4 / 79) x 31.6 = 259.20(ms)  
 CH39\_DH5 = 2.880(ms) x (1600 / 6 / 79) x 31.6 = 307.20(ms)

CH78\_DH1 = 0.377(ms) x (1600 / 2 / 79) x 31.6 = 120.64(ms)  
 CH78\_DH3 = 1.630(ms) x (1600 / 4 / 79) x 31.6 = 260.80(ms)  
 CH78\_DH5 = 2.880(ms) x (1600 / 6 / 79) x 31.6 = 307.20(ms)

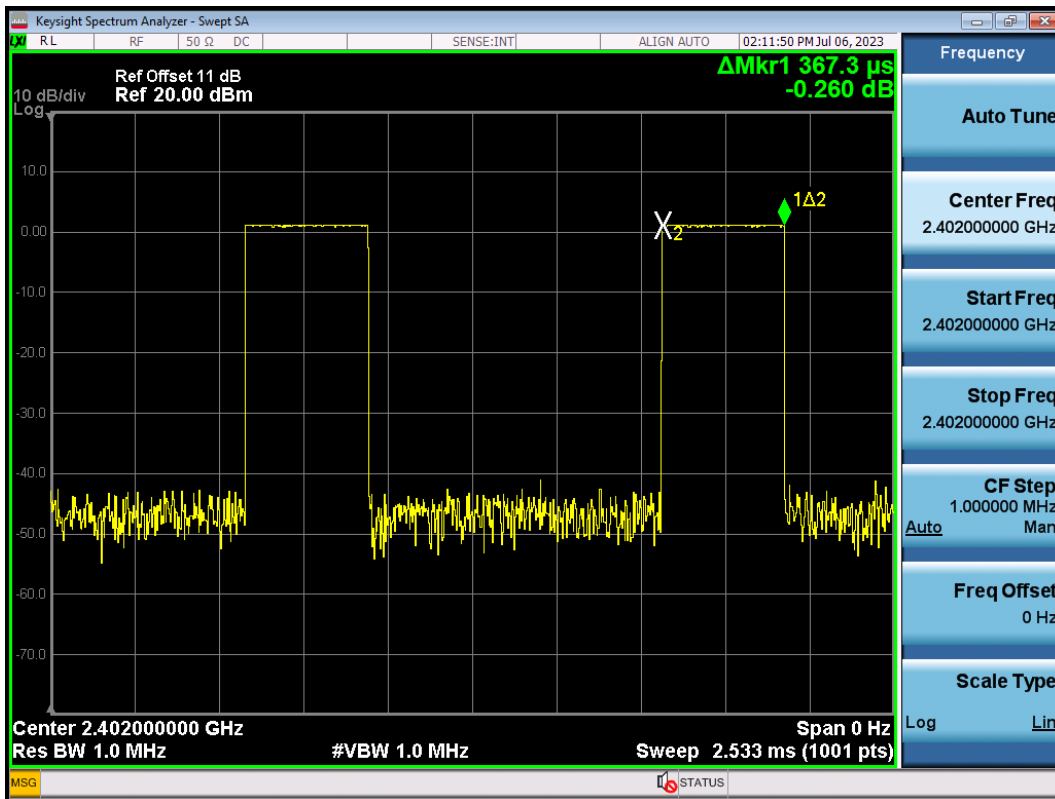


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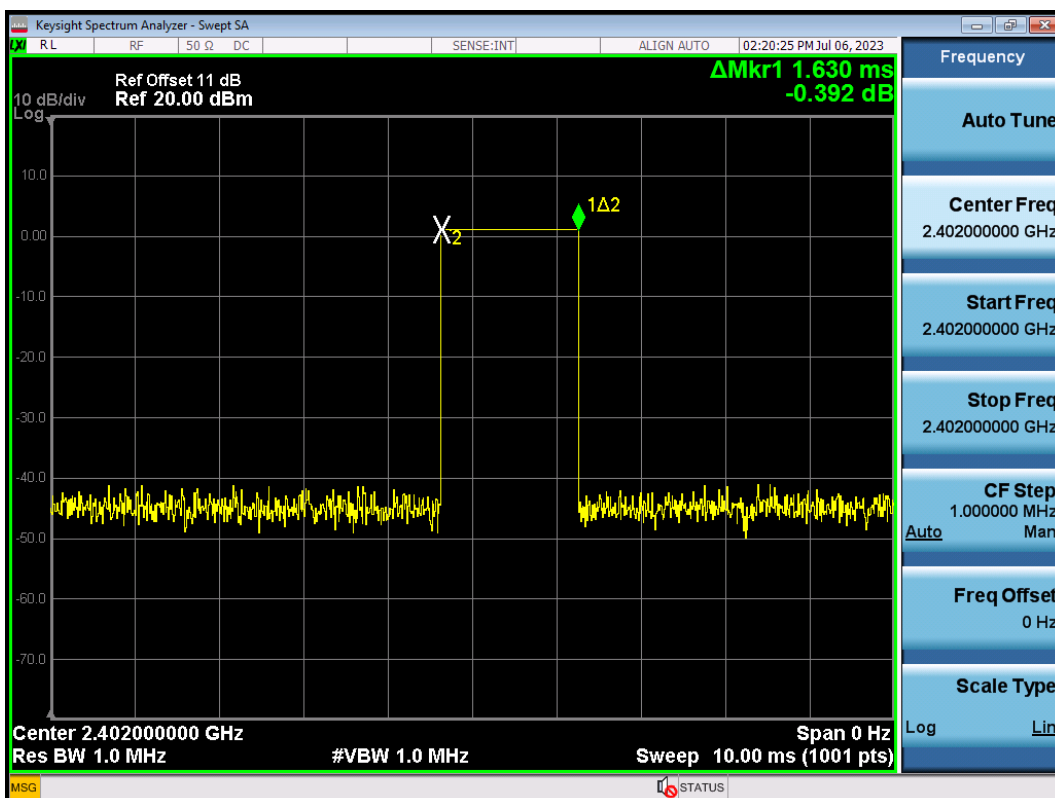
# TEST REPORT

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CH00\_DH1 :



CH00\_DH3 :



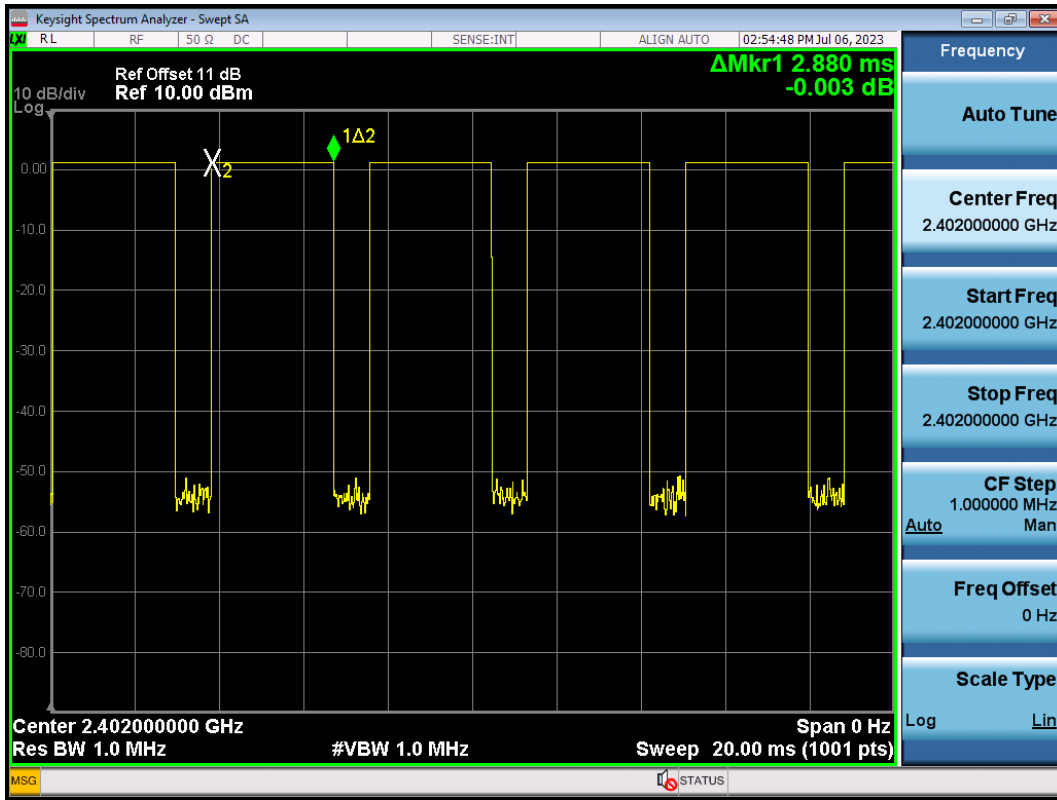


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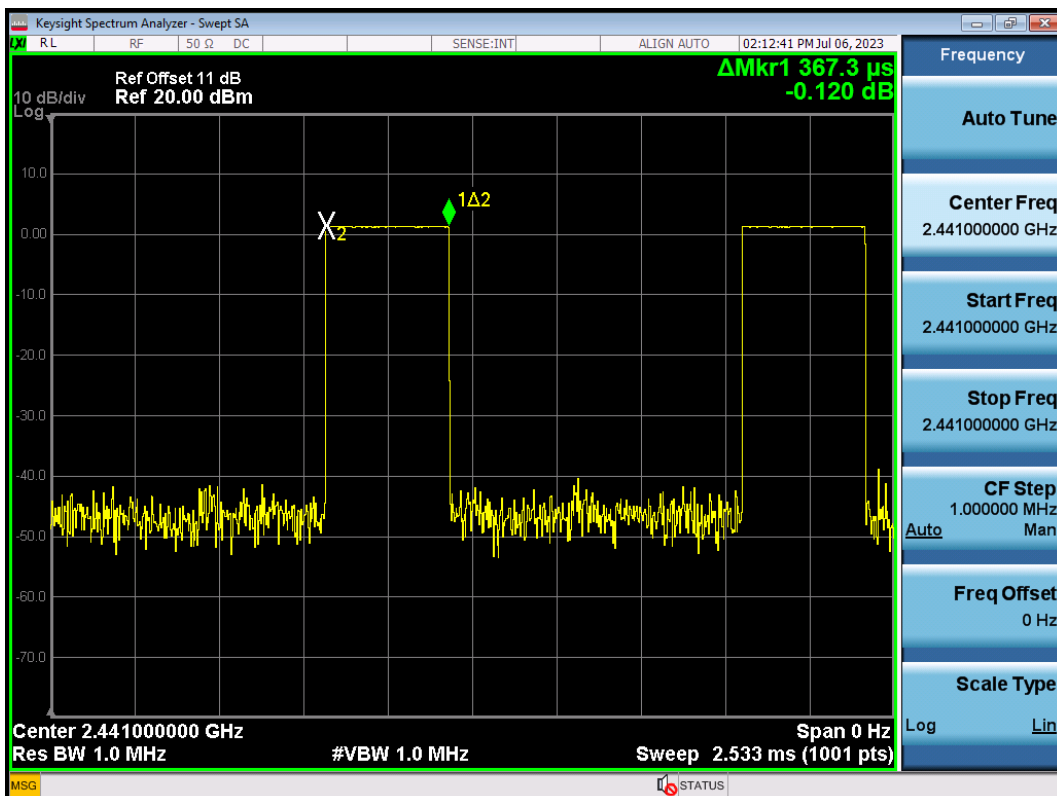
# TEST REPORT

Reference No.: A23070303  
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CH00\_DH5 :



CH39\_DH1 :



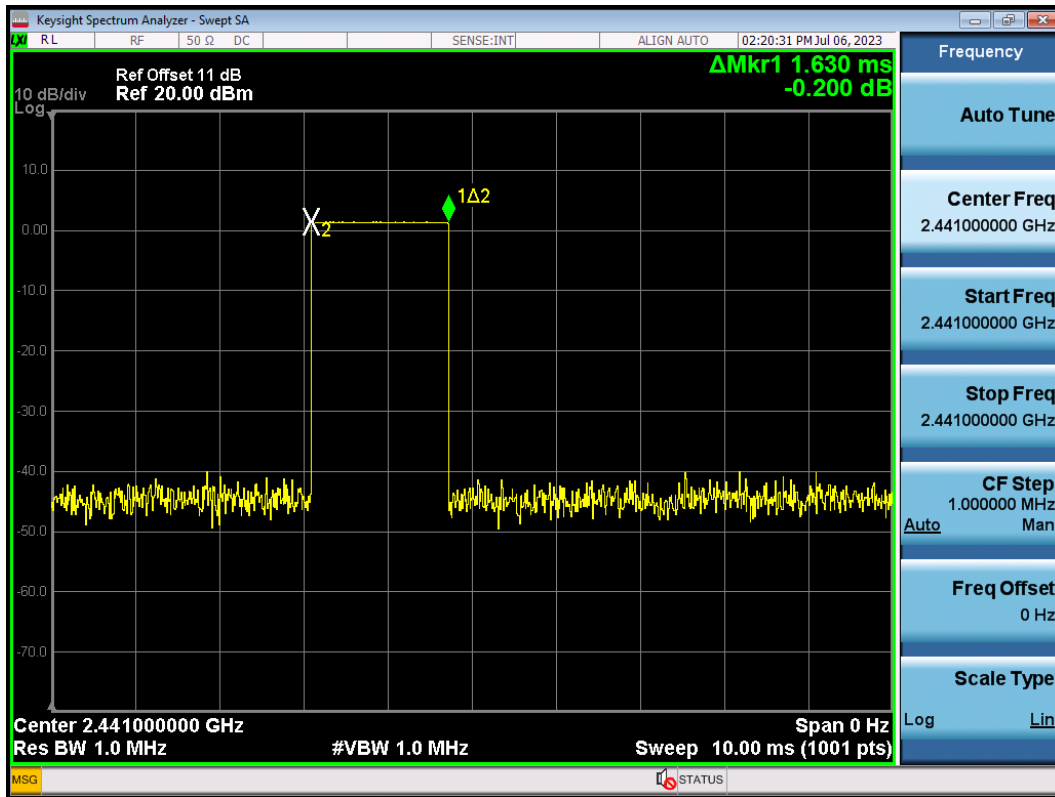


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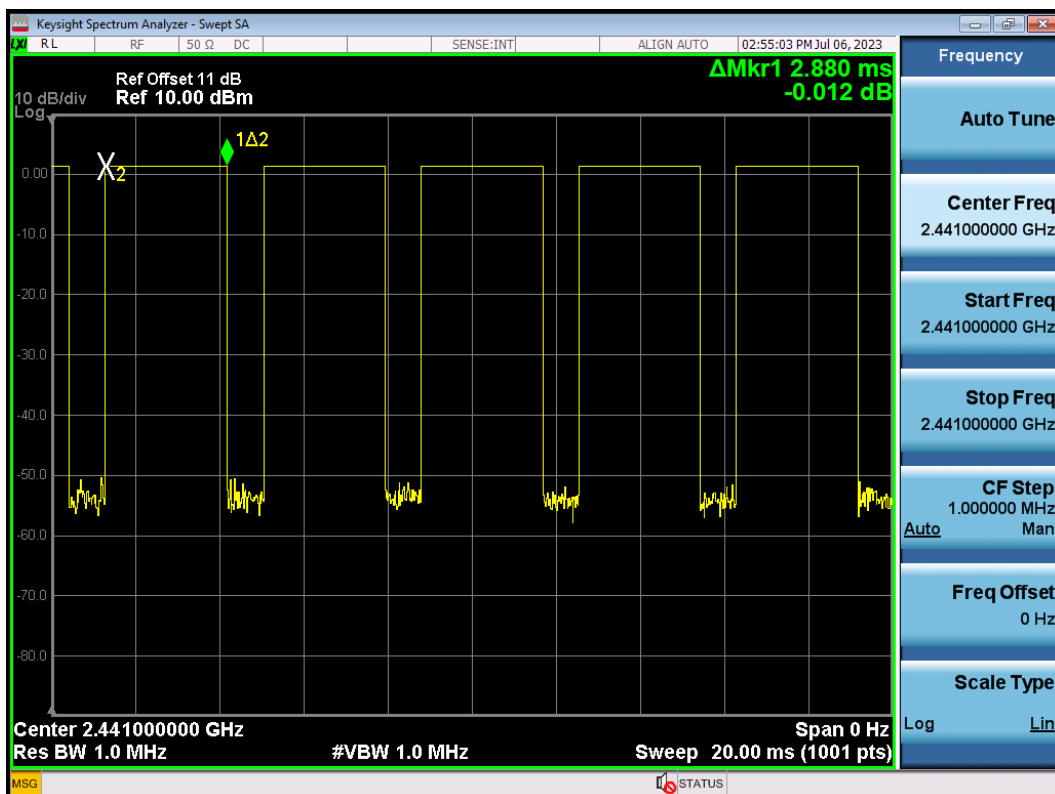
# TEST REPORT

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CH39\_DH3 :



CH39\_DH5 :



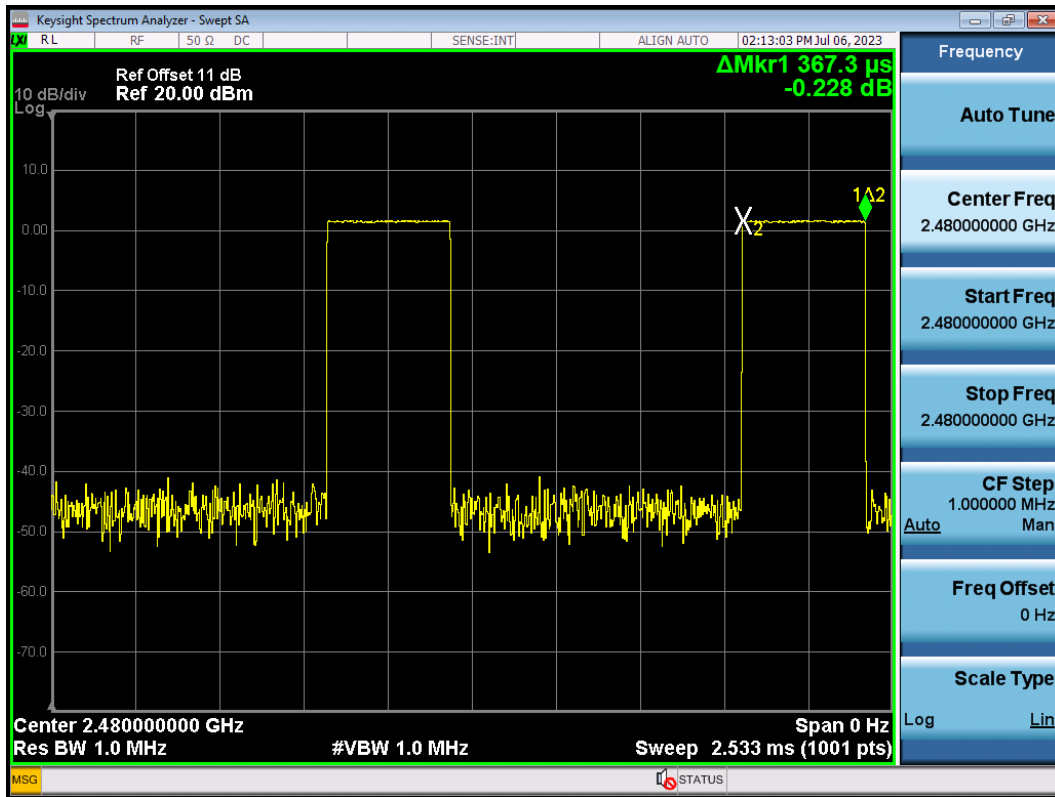


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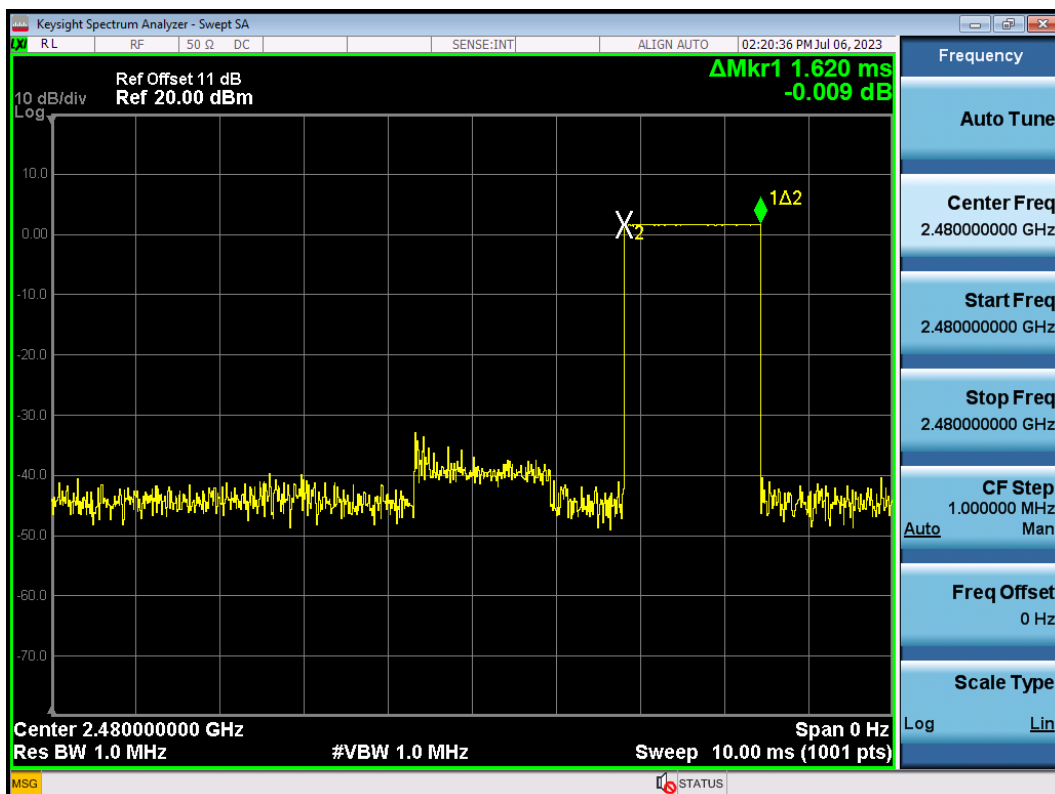
# TEST REPORT

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CH78\_DH1 :



CH78\_DH3 :



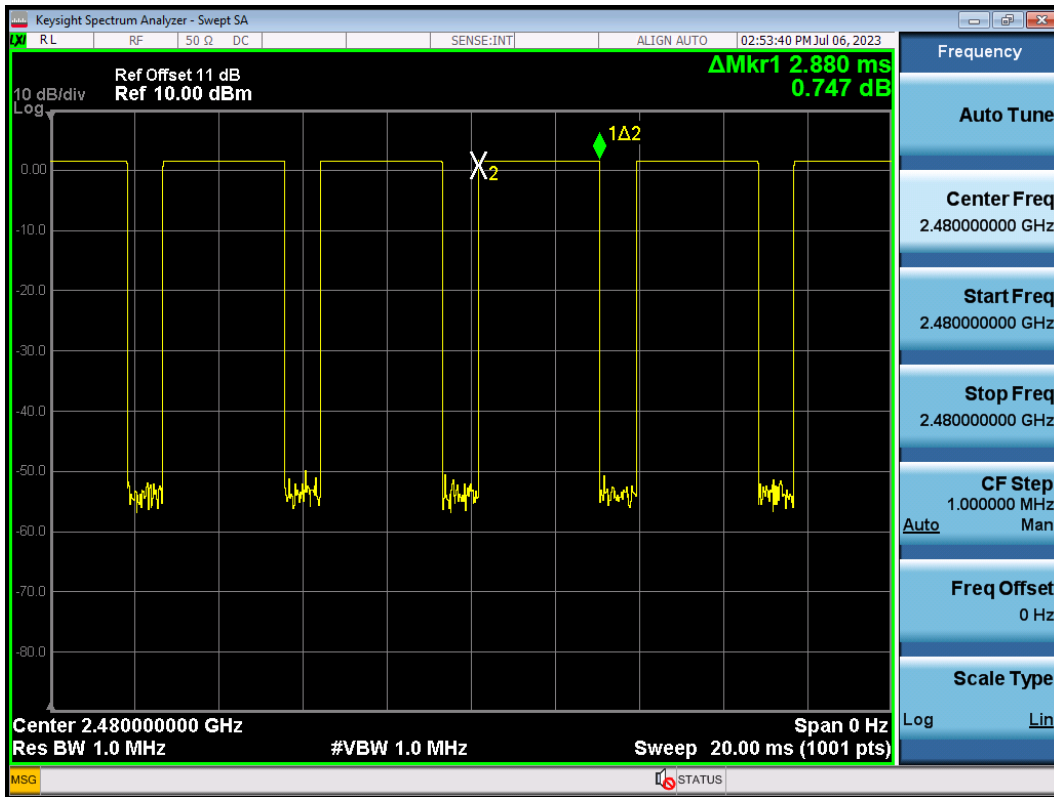


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CH78\_DH5 :





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## 10. QUANTITY OF HOPPING CHANNEL TEST

### 10.1 LIMIT

FCC Part15, Subpart C Section 15.247(a)(b).

Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels.

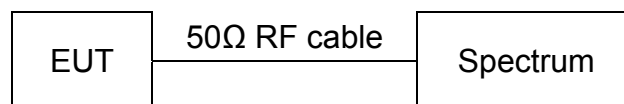
### 10.2 TEST EQUIPMENT

The following test equipment was used during the test :

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

### 10.3 TEST SET-UP



### 10.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel.

Printed out the test result from the spectrum by hard copy function.

### 10.5 EUT OPERATING CONDITION

1. Set the EUT under frequency hopping transmission condition.
2. The EUT was set to the highest available power level.





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## 11. CHANNEL SEPARATION TEST

### 11.1 LIMIT

FCC Part15, Subpart C Section 15.247(a)(1).

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

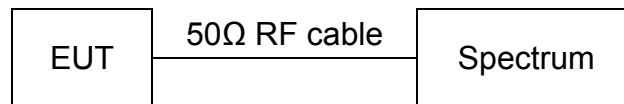
### 11.2 TEST EQUIPMENT

The following test equipment was used during the test :

Equipment/ Facilities	Specifications	Manufacturer	Model #/ Serial #	Due Date of Cal. & Cal. Center
R&S spectrum Analyzer	9KHz ~ 30GHz	R & S	100854 / E007	May 19, 2023 ETC
RF CABLE	1GHz~ 30GHz	HUBER SUHNER	SF102 / 2	Feb. 20, 2023 ETC

**NOTE:** The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

### 11.3 TEST SET-UP



### 11.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel.  
 Printed out the test result from the spectrum by hard copy function.

### 11.5 EUT OPERATING CONDITION

1. Set the EUT under frequency hopping transmission condition.
2. The EUT was set to the highest available power level.



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# TEST REPORT

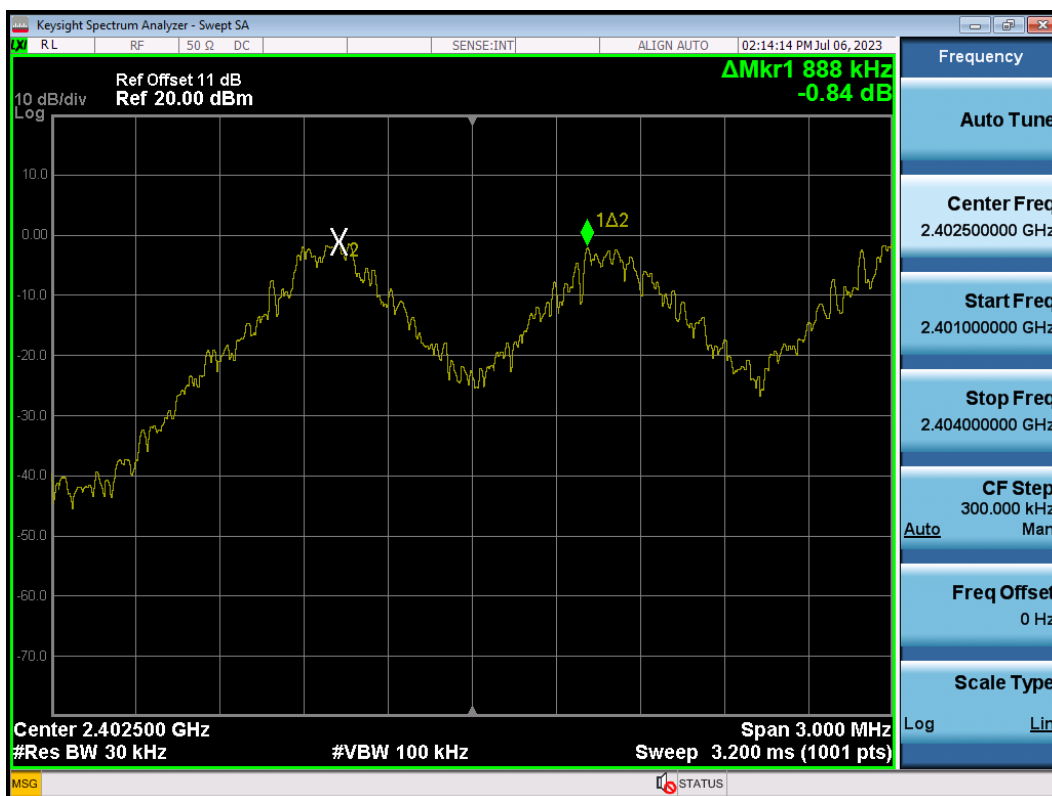
Reference No.: A23070303  
 Report No.: FCCA23070303-B0  
 FCC ID : QCI-SKIWB800D3  
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## 11.6 TEST RESULT

Temperature: 28 °C Humidity: 70 %RH  
 Spectrum Detector: PK. Modulation: GFSK  
 RBW: 30 kHz VBW: 100 kHz  
 Tested By: Jimmy Tseng Tested Date: Jul. 07, 2023

Channel	Frequency (MHz)	Separation Read Value (kHz)	20 dB bandwidth (kHz)	Limit (kHz) (> two-thirds of the 20 dB bandwidth)
CH00	2402	888	842.35	561.57
CH39	2441	1005	877.51	585.01
CH78	2480	960	847.57	565.05

CH00 :



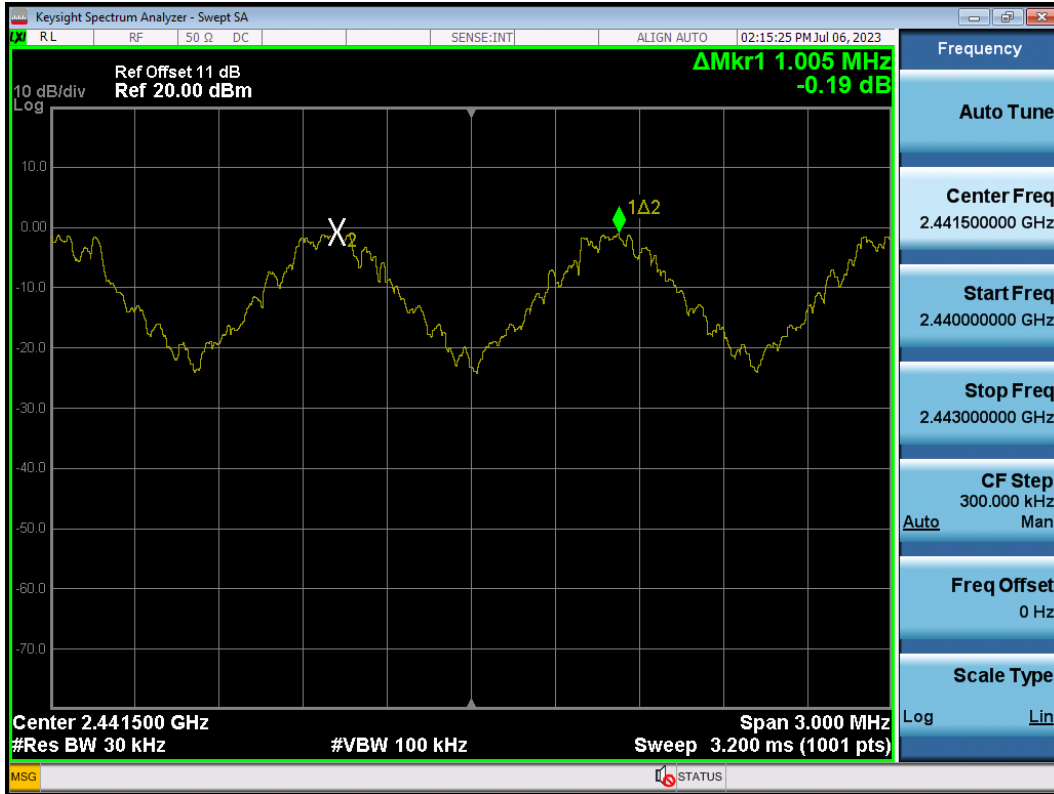


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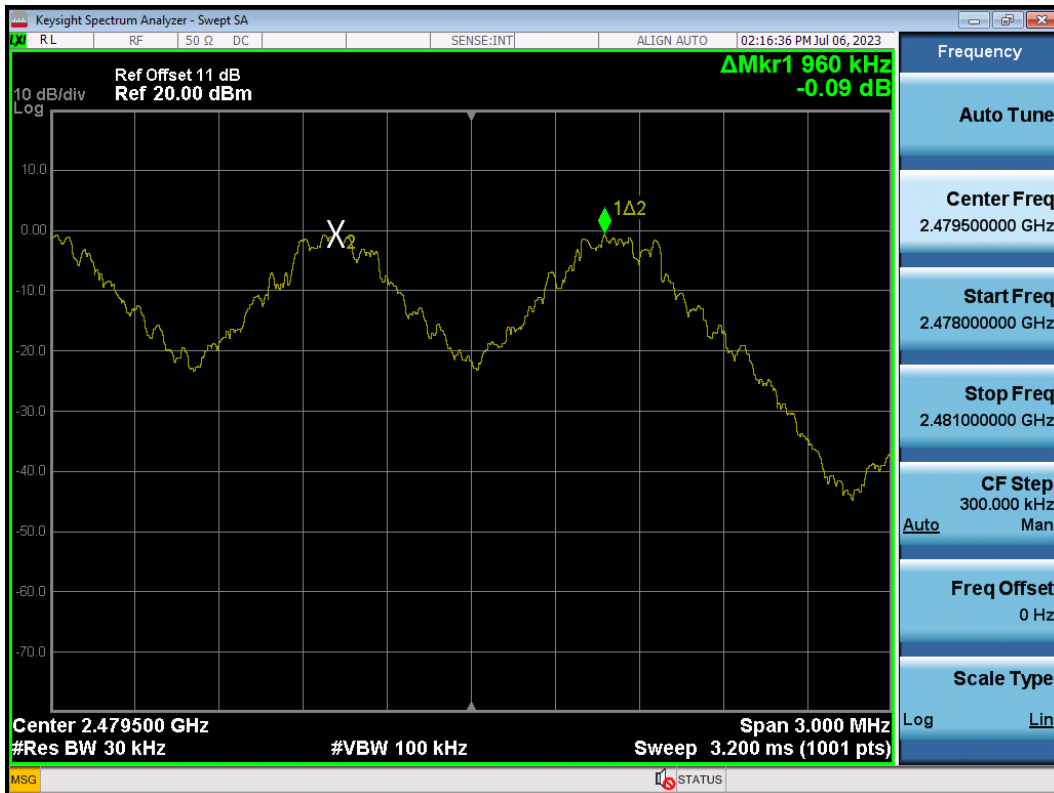
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CH39 :



CH78 :





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## 12. Antenna application

### 12.1 Antenna requirement

FCC Part 15E section 15.407 requirement:

For the band 5.725-5.85 GHz, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 12.2 Result

The EUT's antenna used a Dipole Antenna . antenna gain is 3.09 dBi that meet the requirement.



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### 13. TERMS OF ABBREVIATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction