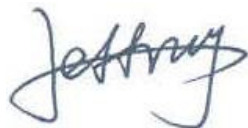


TEST REPORT

Application No.: HKEM2606000651PF
Applicant: EME Americas Inc.
Address of Applicant: 124 Broadkill Rd., Ste. 457, Milton, DE 19968
Manufacturer: Winner Sky Technology Malaysia Sdn. Bhd
Address of Manufacturer: PMT759, Jalan Cassia Selatan 3/7, Batu Kawan Industrial Park, BANDAR CASSIA Penang 14110
Factory: Winner Sky Technology Malaysia Sdn. Bhd
Address of Factory: PMT759, Jalan Cassia Selatan 3/7, Batu Kawan Industrial Park, BANDAR CASSIA Penang 14110
Equipment Under Test (EUT):
EUT Name: MATTER connected thermostat
Model No.: ORT-TRWH-1
Trade Mark: **LUX**
FCC ID: 2BRDM-TQT
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-06-18
Date of Test: 2026-06-24 to 2026-06-30
Date of Issue: 2026-07-02

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Jeffrey Chen
 EMC Manager

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Revision Record			
Revision No.	Date	Report Superseded	Remark

Authorized for issue by:				
				
		ChunLok_Chan/Project Engineer		Date: 2026-07-02
				
		Jeffrey Chen /Reviewer		Date: 2026-07-02

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+Cor.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020+Cor.1-2023 Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectral Density		ANSI C63.10-2020+Cor.1-2023 Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10-2020+Cor.1-2023 Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10-2020+Cor.1-2023 Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by AC 24 V, 60Hz
Test Voltage:	AC 120V, 60Hz
Cable(s):	N/A
Operation Frequency:	2405MHz to 2480MHz
Modulation Type:	O-QPSK
Number of Channels:	16
Channel Spacing:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.44 dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Power Adapter	Dongguan Xiao'erduo Electronics Co., Ltd.	HMQ-SM2402	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	2.8dB
Radiated Emissions which fall in the restricted bands	$\pm 4.7\text{dB}$ (30GHz-6GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 3.3\text{dB}$ (Below 30MHz); $\pm 4.7\text{dB}$ (30MHz-1GHz);
Radiated Spurious Emissions Above 1GHz	$\pm 4.7\text{dB}$ (1GHz-18GHz); $\pm 5.7\text{dB}$ (18GHz-40GHz)
Maximum Conducted Output Power	$\pm 1.5\text{dB}$
Minimum 6dB Bandwidth	$\pm 3\%$
Power Spectral Density	$\pm 1.5\text{dB}$
Conducted Band Edges Measurement	$\pm 1.5\text{dB}$
Conducted Spurious Emissions	$\pm 1.5\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS Hong Kong Limited
Unit 2 and 3, G/F, Block A, Po Lung Centre,
11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong
Tel: +852 2305 2570 Fax: +852 2756 4480

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **IAS Accreditation (Lab Code: TL-817)**

SGS Hong Kong Limited has met the requirements of AC89, IAS Accreditation Criteria for Testing Laboratories, and has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

The report must not be used by the client to claim product certification, approval, or endorsement by IAS, NIST, or any agency of the Federal Government.

• **FCC Recognized Accredited Test Firm(CAB Registration No.: 514599)**

SGS Hong Kong Limited has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: HK0015, Test Firm Registration Number: 514599.

• **Industry Canada (Site Registration No.: 26103; CAB Identifier No.: HK0015)**

SGS Hong Kong Limited has been recognized by Department of Innovation, Science and Economic Development (ISED) Canada as a wireless testing laboratory. The acceptance letter from the ISED is maintained in our files. CAB Identifier No: HK0015, Site Registration Number: 26103.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
IT7 Shielding Room	ChamPro	CE Room Shielding Effect	E228	2025/7/29	2028/7/28
EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESR3	E231	2026/5/6	2027/5/5
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	E005	2025/5/10	2027/5/9
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2	E028	2025/7/7	2027/7/6
EMC32 Test software	Rohde & Schwarz	Version 10	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ChamPro	N/A	E229	2026/1/13	2027/1/12
Coaxial Cable	SGS	N/A	E167	2025/7/7	2027/7/6
EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESR3	E231	2026/5/6	2027/5/5
TRILOG Super Broadb. Test Antenna, (25) 30-1000 (2000) MHz	Schwarzbeck	VULB 9168	E264	2026/3/3	2028/3/2
EMC32 Test software	Rohde & Schwarz	Version 10	N/A	N/A	N/A
Signal and Spectrum Analyzer	Rohde & Schwarz	FSW26	E296	2025/9/30	2026/9/29
Horn Antenna 1 - 18GHz	Schwarzbeck	BBHA9120D	E211	2026/3/10	2028/3/9
Preamplifier 33dB, 1 - 18GHz	Schwarzbeck	BBV9718	E214	2025/9/19	2026/9/18
RF cable SMA to SMA 10000mm	HUBER+SUHNER	SF104-26.5/2*11SMA 45	E207	2025/7/16	2027/7/15
Boresight Mast Controller	ChamPro	AM-BS-4500-E	E237	N/A	N/A
Turntable with Controller	ChamPro	EM1000	E238	N/A	N/A

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ChamPro	N/A	E229	2026/1/13	2027/1/12
Coaxial Cable	SGS	N/A	E167	2025/7/7	2027/7/6
EMI Test Receiver	Rohde & Schwarz	ESR3	E231	2026/5/6	2027/5/5

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9kHz to 7GHz					
TRILOG Super Broadb. Test Antenna, (25) 30-1000 (2000) MHz	Schwarzbeck	VULB 9168	E264	2026/3/3	2028/3/2
EMC32 Test software	Rohde & Schwarz	Version 10	N/A	N/A	N/A
Signal and Spectrum Analyzer	Rohde & Schwarz	FSW26	E296	2025/9/30	2026/9/29
Horn Antenna 1 - 18GHz	Schwarzbeck	BBHA9120D	E211	2026/3/10	2028/3/9
Preamplifier 33dB, 1 - 18GHz	Schwarzbeck	BBV9718	E214	2025/9/19	2026/9/18
RF cable SMA to SMA 10000mm	HUBER+SUHNER	SF104-26.5/2*11SMA 45	E207	2025/7/16	2027/7/15
Boresight Mast Controller	ChamPro	AM-BS-4500-E	E237	N/A	N/A
Turntable with Controller	ChamPro	EM1000	E238	N/A	N/A

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
FSV40 SIGNAL ANALYZER 40GHz	Rohde & Schwarz	FSV40	E235	2025/9/30	2026/9/29
OSP	Rohde & Schwarz	OSP-B157W8	E332	2025/9/30	2026/9/29
Cable	Rohde & Schwarz	J12J103539-00-2	E239	2025/4/24	2027/4/23
WMS32 Test software	Rohde & Schwarz	N/A	Version 11	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital temperature & humidity data logger	Shandong Renke Control Technology Co., Ltd.	COS-03	E232	2025/09/11	2026/09/10
Electronic Digital Thermometer with Hygrometer	Huner + Suhner	2074/2075	E159	2025/09/11	2026/09/10
Barometer with digital thermometer	SATO	7612-00	E218	2026/05/11	2027/05/10

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.44 dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.2
Test Engineer: ChunLok_Chau

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 26.7 °C Humidity: 53.8 % RH Atmospheric Pressure: 1018 mbar

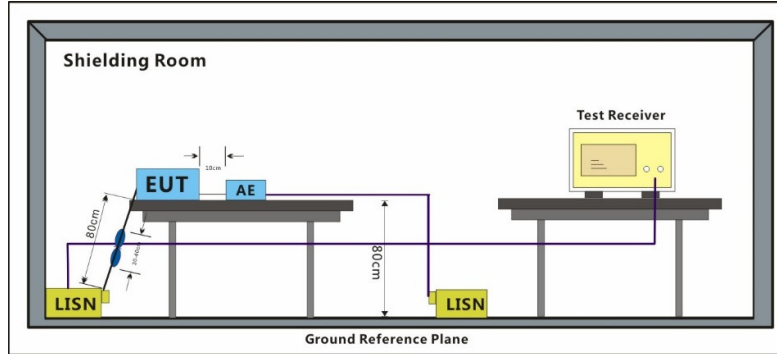
7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

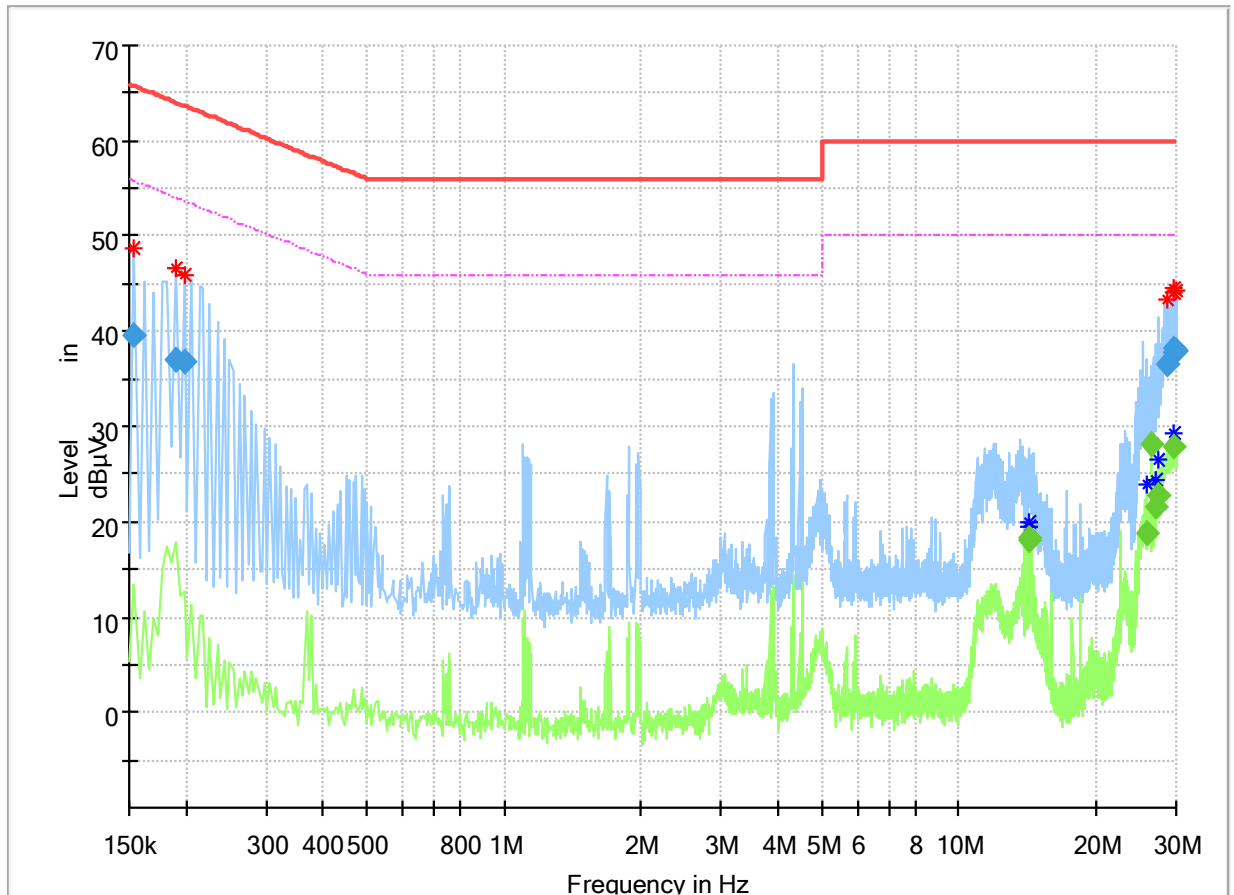
Remark: Level=Read Level+ Cable Loss+ LISN Factor

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Test Mode: 00; Line: Live line

Full Spectrum



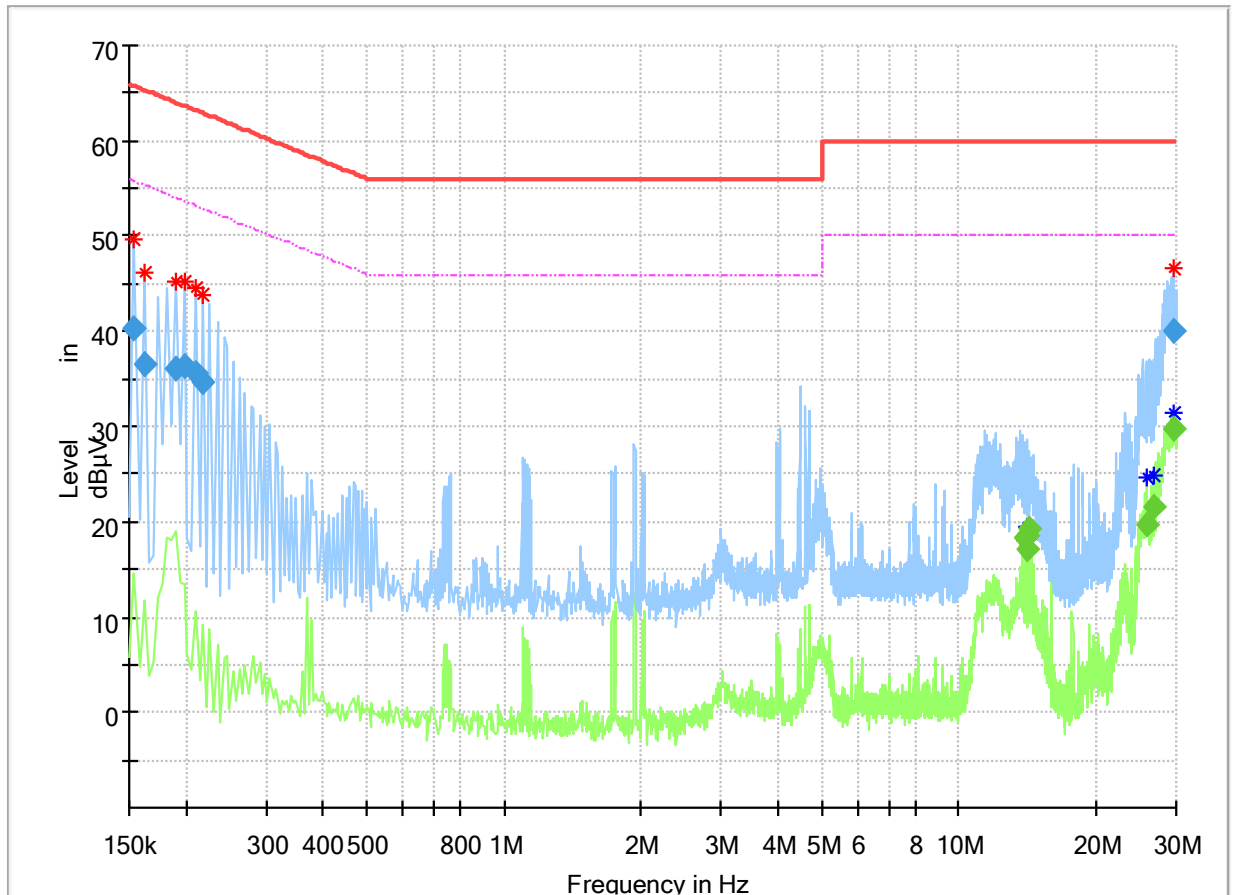
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	39.50	---	65.78	26.29	1000.0	9.000	L1	11.2
0.190000	36.99	---	64.04	27.05	1000.0	9.000	L1	11.2
0.198000	36.88	---	63.69	26.82	1000.0	9.000	L1	11.1
14.290000	---	18.14	50.00	31.86	1000.0	9.000	L1	10.2
14.338000	---	18.20	50.00	31.80	1000.0	9.000	L1	10.2
26.010000	---	18.85	50.00	31.15	1000.0	9.000	L1	10.5
26.626000	---	28.05	50.00	21.95	1000.0	9.000	L1	10.5
27.046000	---	21.49	50.00	28.51	1000.0	9.000	L1	10.5
27.294000	---	22.66	50.00	27.34	1000.0	9.000	L1	10.5
28.802000	36.46	---	60.00	23.54	1000.0	9.000	L1	10.5
29.514000	37.78	---	60.00	22.22	1000.0	9.000	L1	10.5
29.570000	38.14	---	60.00	21.86	1000.0	9.000	L1	10.5
29.746000	---	27.80	50.00	22.20	1000.0	9.000	L1	10.5
29.846000	37.88	---	60.00	22.12	1000.0	9.000	L1	10.5

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Test Mode: 00; Line: Neutral Line

Full Spectrum



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	40.31	---	65.78	25.47	1000.0	9.000	N	11.2
0.162000	36.50	---	65.36	28.86	1000.0	9.000	N	11.2
0.190000	36.17	---	64.04	27.87	1000.0	9.000	N	11.2
0.198000	36.24	---	63.69	27.46	1000.0	9.000	N	11.1
0.210000	35.61	---	63.21	27.60	1000.0	9.000	N	11.1
0.218000	34.74	---	62.90	28.15	1000.0	9.000	N	11.1
13.986000	---	18.39	50.00	31.61	1000.0	9.000	N	10.2
14.086000	---	18.53	50.00	31.47	1000.0	9.000	N	10.2
14.186000	---	17.04	50.00	32.96	1000.0	9.000	N	10.2
14.290000	---	19.23	50.00	30.77	1000.0	9.000	N	10.2
26.010000	---	19.69	50.00	30.31	1000.0	9.000	N	10.5
26.806000	---	21.62	50.00	28.38	1000.0	9.000	N	10.5
29.570000	40.04	---	60.00	19.96	1000.0	9.000	N	10.5
29.758000	---	29.86	50.00	20.14	1000.0	9.000	N	10.5

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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.10.5 & 11.12
Measurement Distance: 3m
Test Engineer: ChunLok_Chan

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C Humidity: 53.8 % RH Atmospheric Pressure: 1018 mbar

7.2.2 Test Mode Description

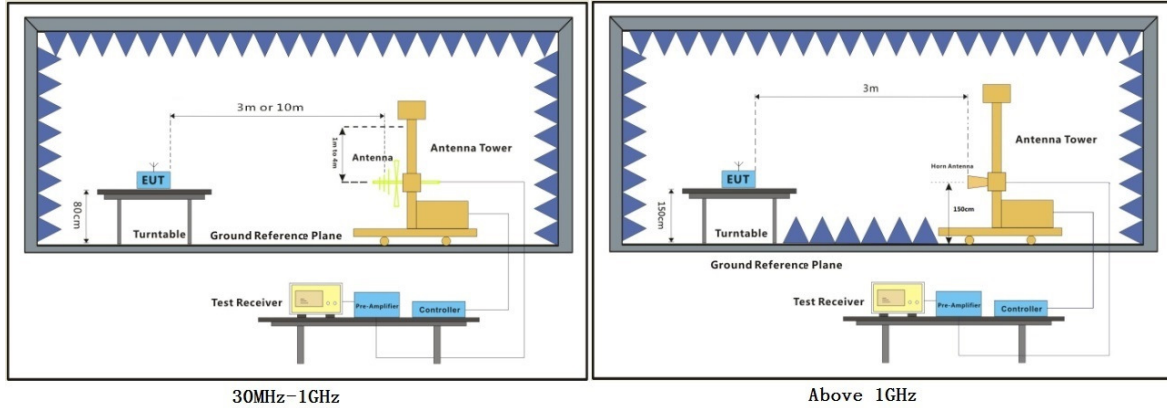
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

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7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

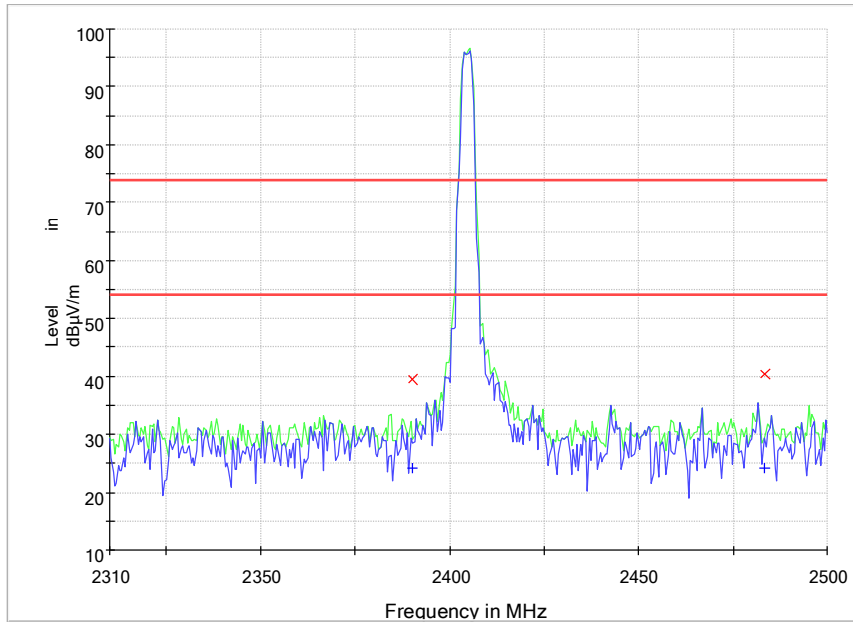
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Test mode 00; 2405 MHz; Polarity: H

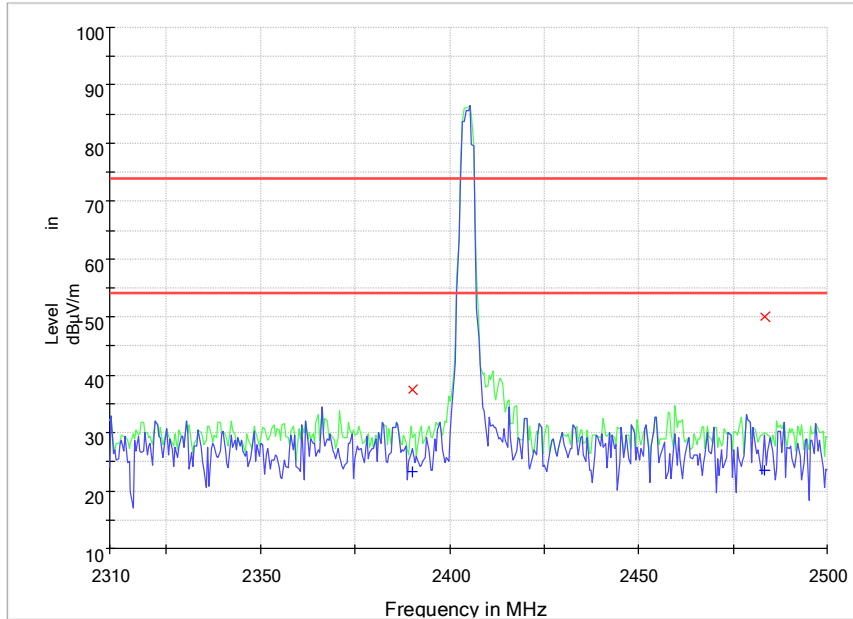


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
2390.000000	39.5	24.2	1000.0	1000.000	155.0	H	-1.7
2483.500000	40.4	24.1	1000.0	1000.000	155.0	H	-1.5

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Test mode 00; 2405 MHz; Polarity: V

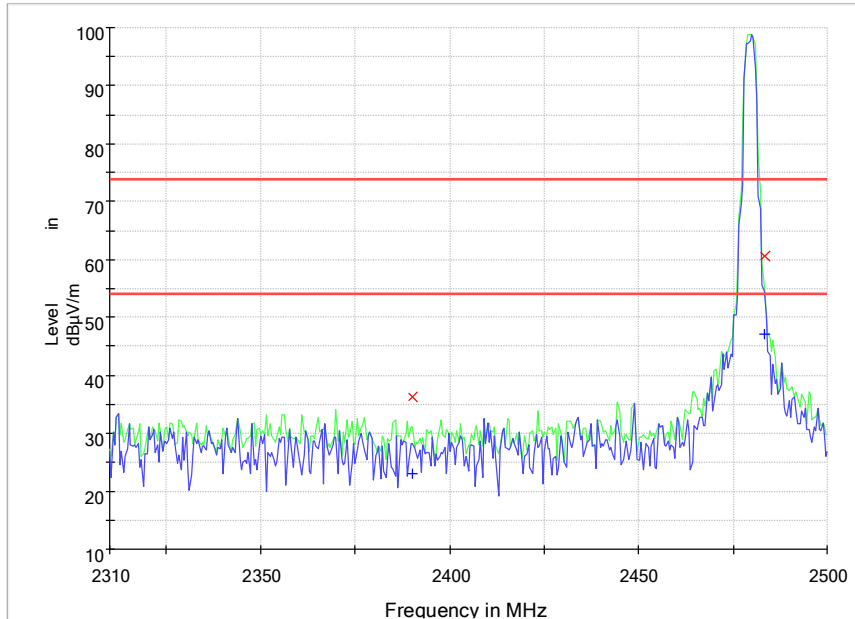


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
2390.000000	37.6	23.2	1000.0	1000.000	155.0	V	-1.7
2483.500000	50.0	23.5	1000.0	1000.000	155.0	V	-1.5

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Test mode 00; 2480 MHz; Polarity: H

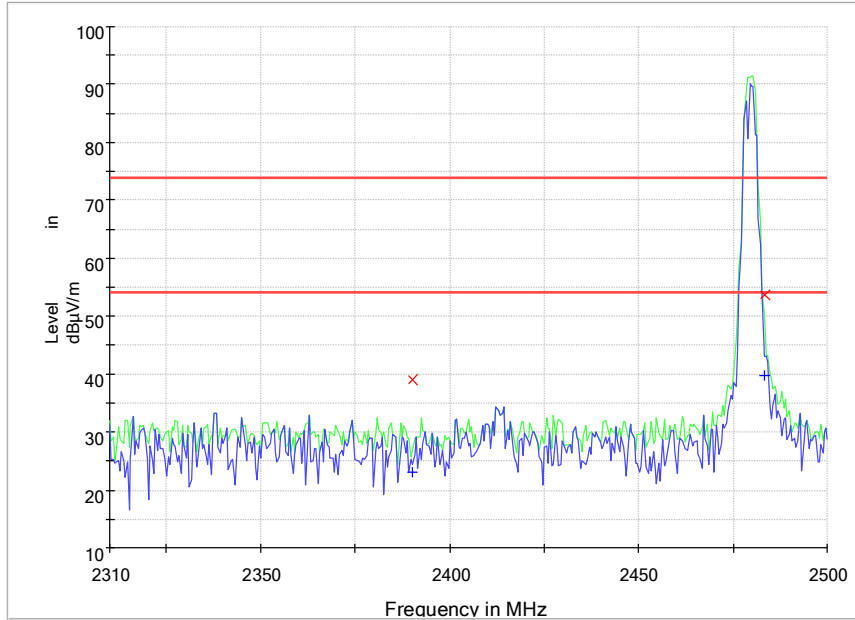


Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
2390.000000	36.3	23.0	1000.0	1000.000	155.0	H	-1.7
2483.500000	60.6	47.0	1000.0	1000.000	155.0	H	-1.5

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Test mode 00; 2480 MHz; Polarity: V



Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
2390.000000	39.1	23.1	1000.0	1000.000	155.0	V	-1.7
2483.500000	53.6	39.7	1000.0	1000.000	155.0	V	-1.5s

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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.4,6.5
Measurement Distance: 3m
Test Engineer: ChunLok_Chan

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

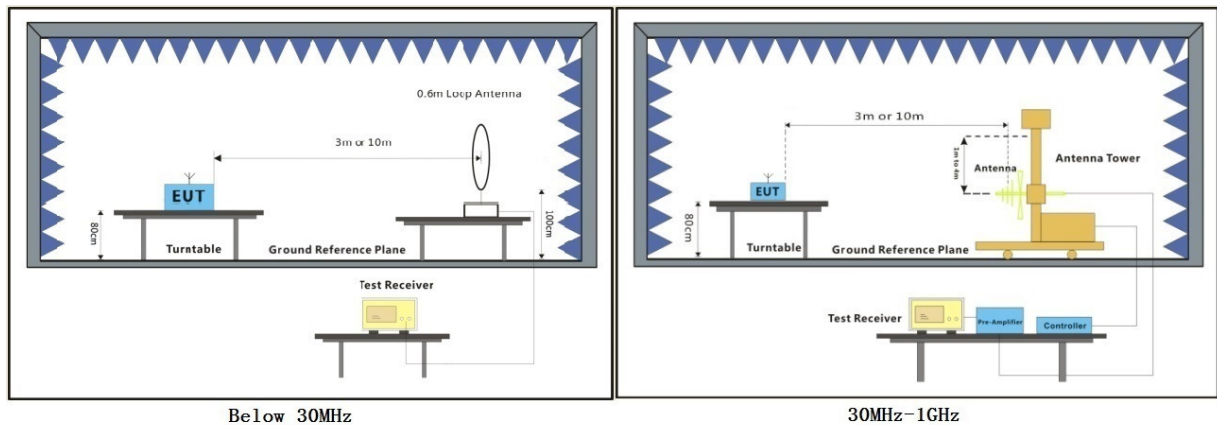
Operating Environment:

Temperature: 25.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1018 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

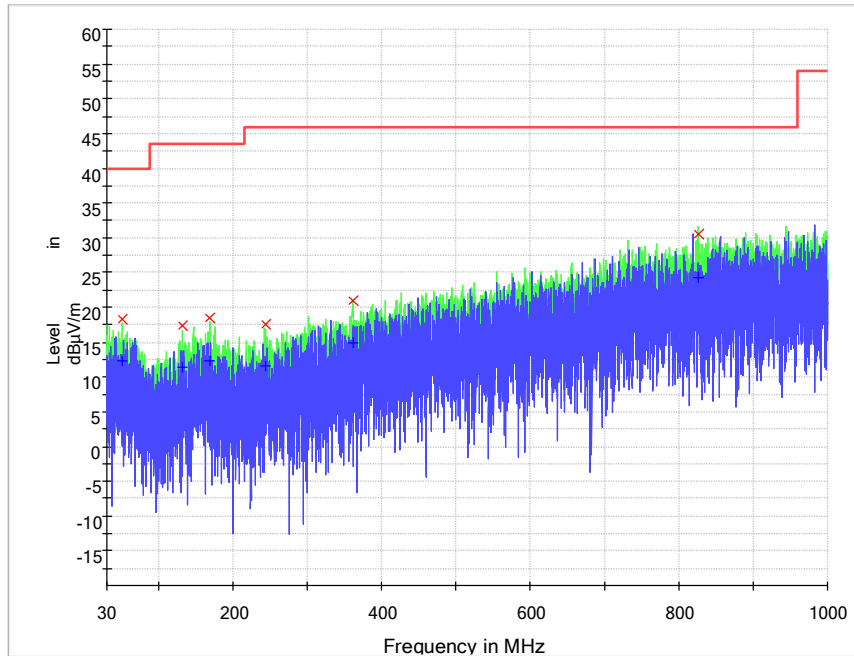
The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test Mode: 00; Polarity: Horizontal

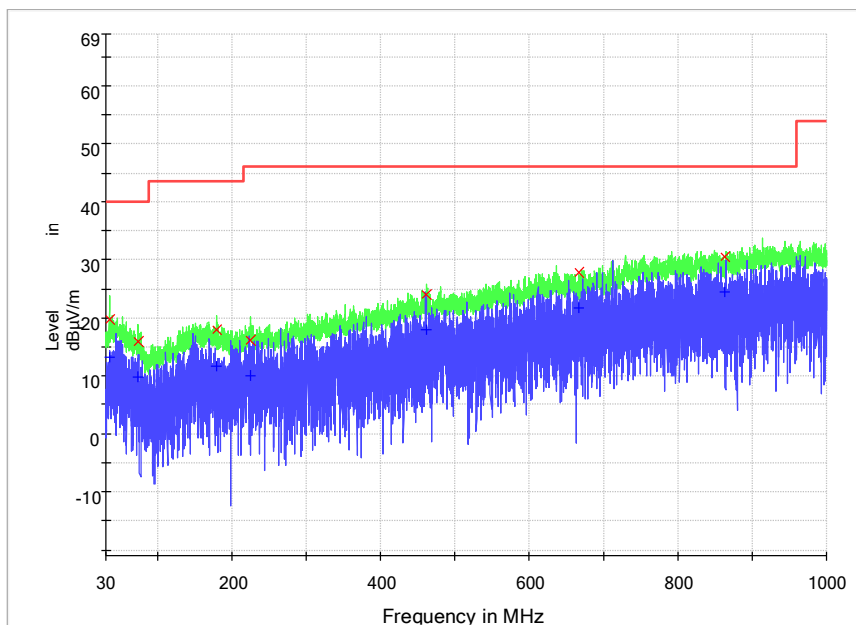


Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
50.785714	18.3	1000.0	120.000	H	20.6	21.7	40.0
131.572857	17.3	1000.0	120.000	H	19.5	26.2	43.5
168.086429	18.5	1000.0	120.000	H	20.5	25.0	43.5
244.370000	17.7	1000.0	120.000	H	19.5	28.4	46.0
360.700714	21.0	1000.0	120.000	H	22.8	25.0	46.0
826.993571	30.5	1000.0	120.000	H	31.7	15.5	46.0

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Test Mode: 00; Polarity: Vertical



Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
34.503571	19.8	1000.0	120.000	V	19.8	20.2	40.0
74.135000	16.0	1000.0	120.000	V	18.2	24.0	40.0
178.964286	17.9	1000.0	120.000	V	19.7	25.6	43.5
461.026429	24.1	1000.0	120.000	V	25.6	22.0	46.0
666.181429	27.9	1000.0	120.000	V	29.1	18.1	46.0
863.437857	30.5	1000.0	120.000	V	31.7	15.5	46.0

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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 11.12
 Measurement Distance: 3m
 Test Engineer: ChunLok_Chan

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

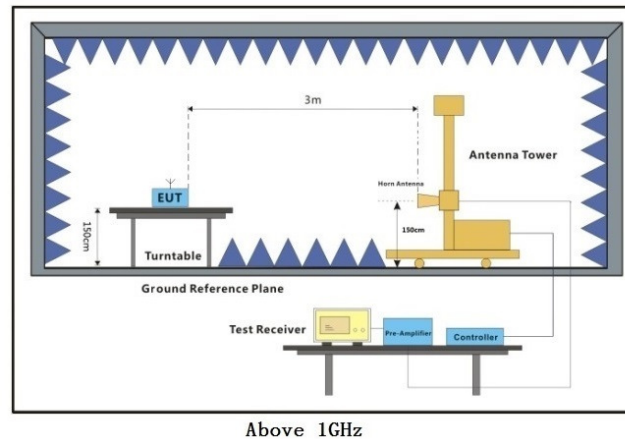
Operating Environment:

Temperature: 25.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1018 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

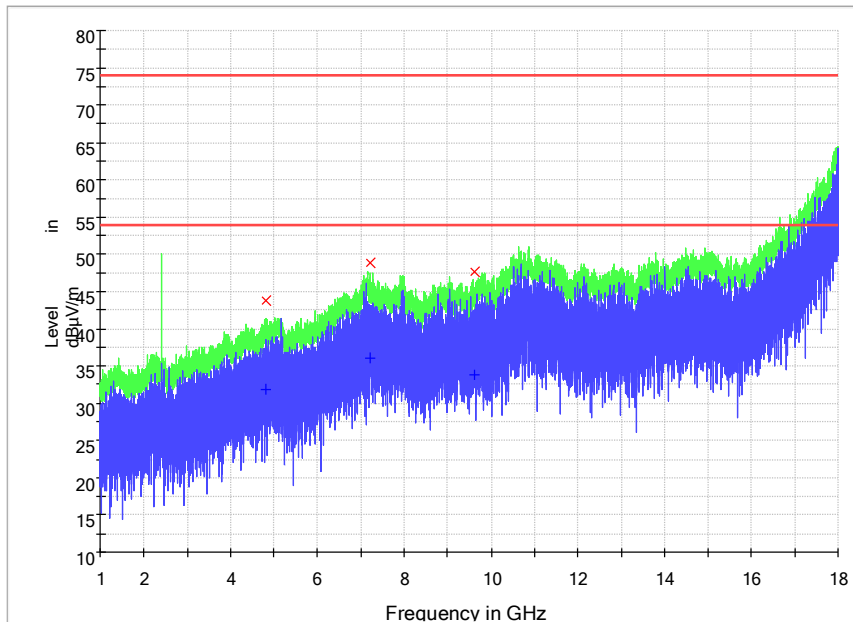
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.

Test Mode: 00;

2405 MHz

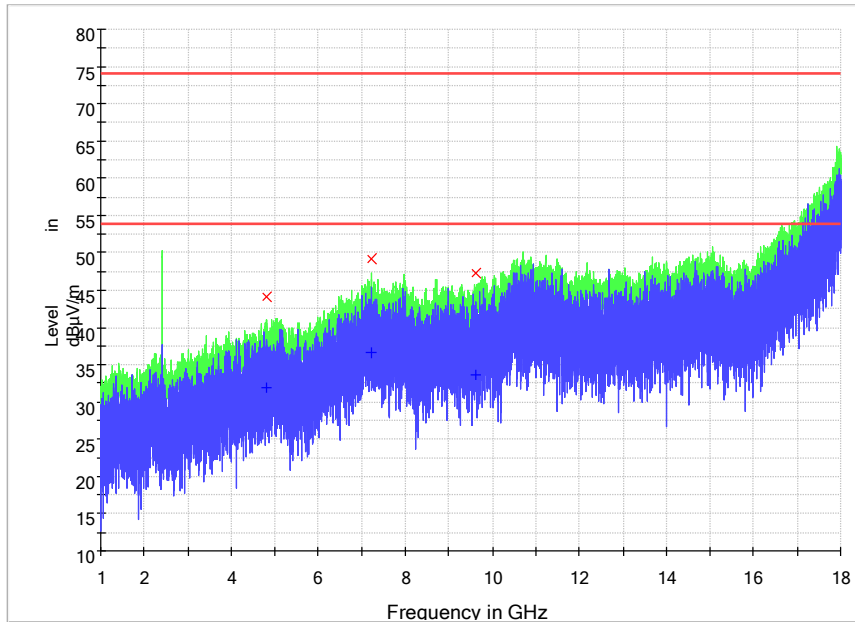


Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
4810.000000	43.8	31.8	1000.0	1000.000	155.0	H	7.9
7215.000000	48.9	36.1	1000.0	1000.000	155.0	H	15.3
9620.000000	47.7	33.7	1000.0	1000.000	155.0	H	16.4

Remark: The worst-case harmonic frequency points were identified and tested, with the results presented above. The higher-frequency range contains only background emissions, and no significant harmonics were observed.

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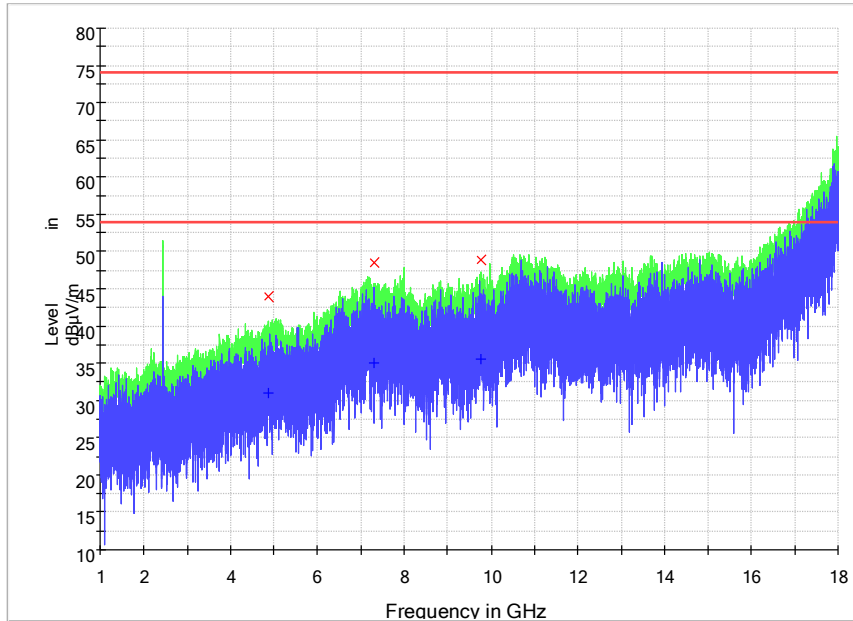
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
4810.000000	44.1	31.8	1000.0	1000.000	155.0	V	7.9
7215.000000	49.2	36.7	1000.0	1000.000	155.0	V	15.3
9620.000000	47.3	33.7	1000.0	1000.000	155.0	V	16.4

Remark: The worst-case harmonic frequency points were identified and tested, with the results presented above. The higher-frequency range contains only background emissions, and no significant harmonics were observed.

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2440 MHz

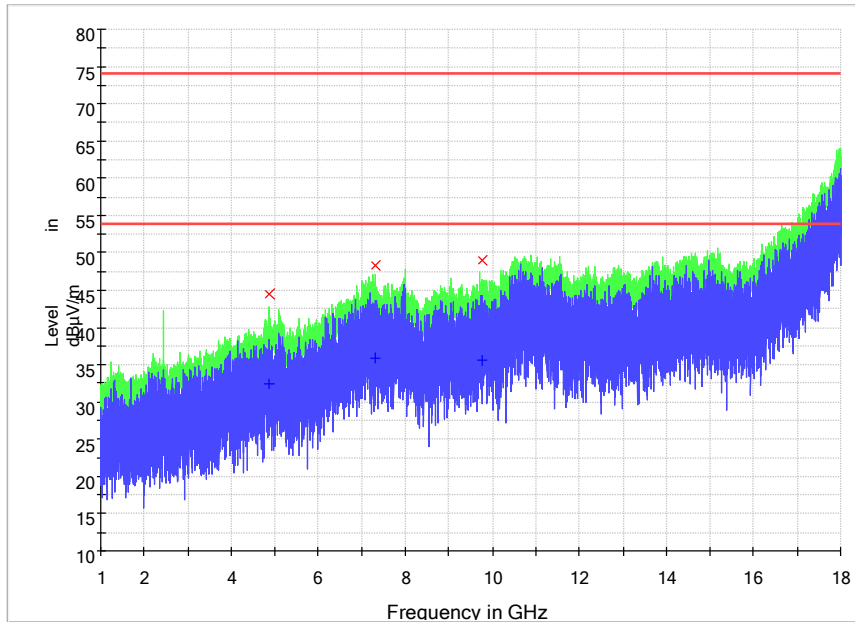


Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
4880.000000	44.0	31.1	1000.0	1000.000	155.0	H	7.6
7320.000000	48.5	34.9	1000.0	1000.000	155.0	H	15.5
9760.000000	48.9	35.6	1000.0	1000.000	155.0	H	16.7

Remark: The worst-case harmonic frequency points were identified and tested, with the results presented above. The higher-frequency range contains only background emissions, and no significant harmonics were observed.

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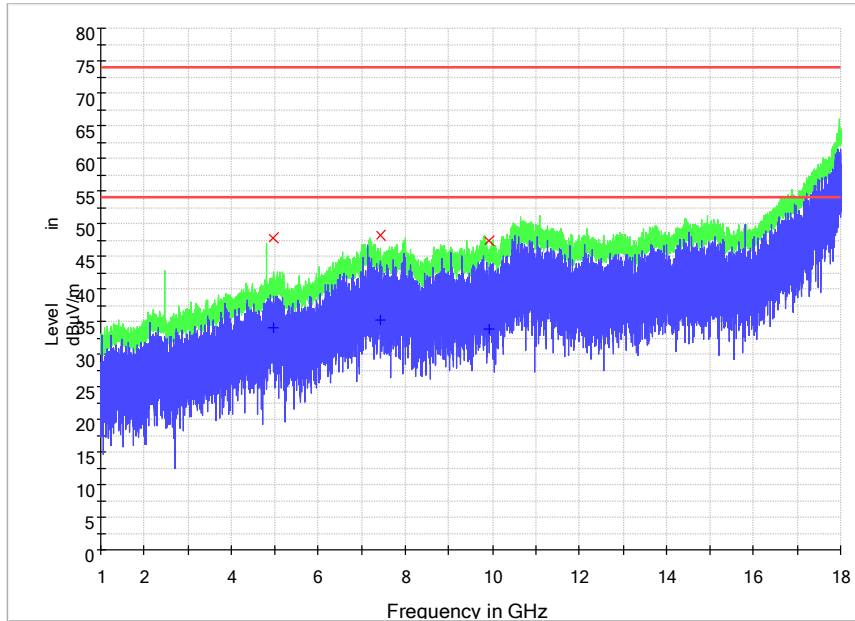
Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
4880.000000	44.5	32.5	1000.0	1000.000	155.0	V	7.6
7320.000000	48.4	35.8	1000.0	1000.000	155.0	V	15.5
9760.000000	49.0	35.6	1000.0	1000.000	155.0	V	16.7

Remark: The worst-case harmonic frequency points were identified and tested, with the results presented above. The higher-frequency range contains only background emissions, and no significant harmonics were observed.

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2480 MHz

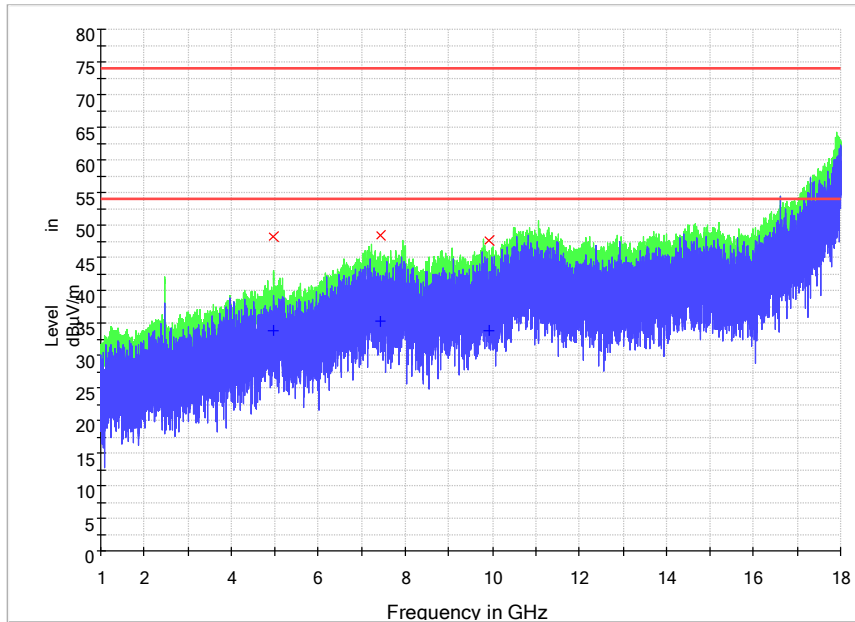


Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
4960.000000	47.8	34.0	1000.0	1000.000	155.0	H	7.8
7440.000000	48.3	35.1	1000.0	1000.000	155.0	H	15.4
9920.000000	47.4	33.7	1000.0	1000.000	155.0	H	16.6

Remark: The worst-case harmonic frequency points were identified and tested, with the results presented above. The higher-frequency range contains only background emissions, and no significant harmonics were observed.

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Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Corr. (dB/m)
4960.000000	48.3	33.8	1000.0	1000.000	155.0	V	7.8
7440.000000	48.4	35.2	1000.0	1000.000	155.0	V	15.4
9920.000000	47.6	33.7	1000.0	1000.000	155.0	V	16.6

Remark: The worst-case harmonic frequency points were identified and tested, with the results presented above. The higher-frequency range contains only background emissions, and no significant harmonics were observed.

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7.5 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.9.1
 Test Engineer: ChunLok_Chau

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

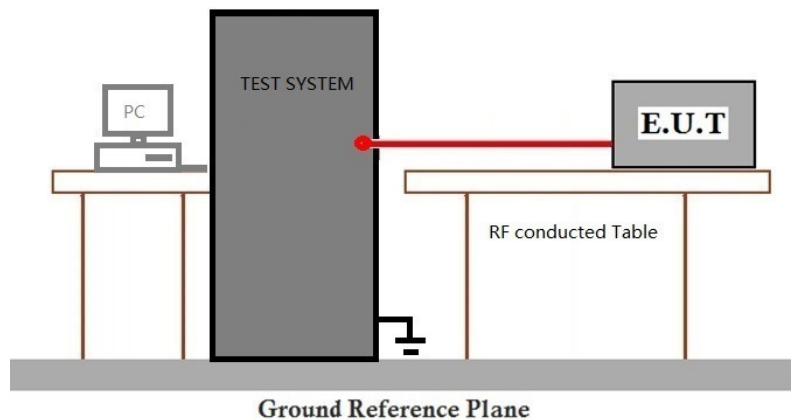
Operating Environment:

Temperature: 25.5 °C Humidity: 55.5 % RH Atmospheric Pressure: 1018 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.8.1
 Test Engineer: ChunLok_Chan

Limit:
 ≥500 kHz

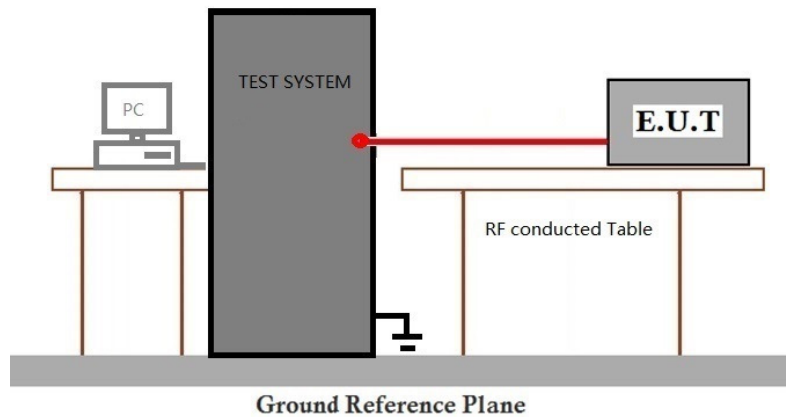
7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.5 °C Humidity: 53.6 % RH Atmospheric Pressure: 1018 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.7 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.10.3
 Test Engineer: ChunLok_Chan

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

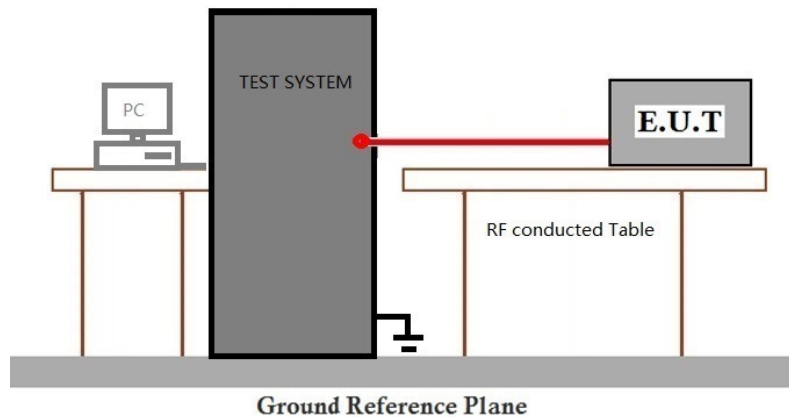
Operating Environment:

Temperature: 26.8 °C Humidity: 53.8 % RH Atmospheric Pressure: 1018 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.10.4
 Test Engineer: ChunLok_Chau

Limit:

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)).

7.8.1 E.U.T. Operation

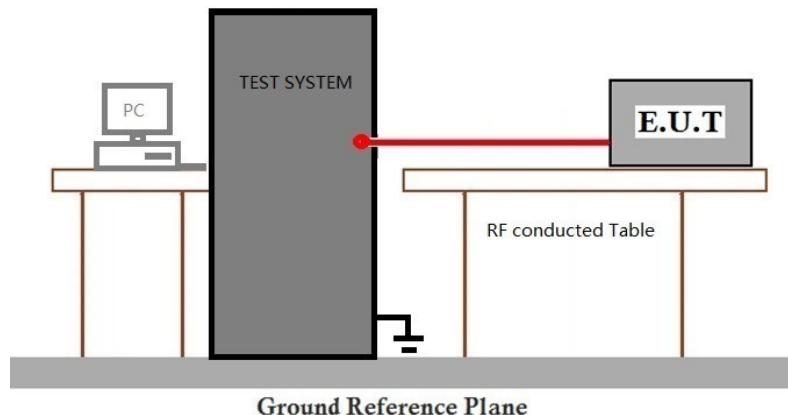
Operating Environment:

Temperature: 27.7 °C Humidity: 53.8 % RH Atmospheric Pressure: 1018 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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 Office: Units 303 & 305, 3/F, Building 22E, Phase 3, HK Science Park, New Territories, Hong Kong t (852) 2334 4481 f (852) 2764 3126 e mkta.hk@sgs.com

7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 11.11
 Test Engineer: ChunLok_Chan

Limit:

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)).

7.9.1 E.U.T. Operation

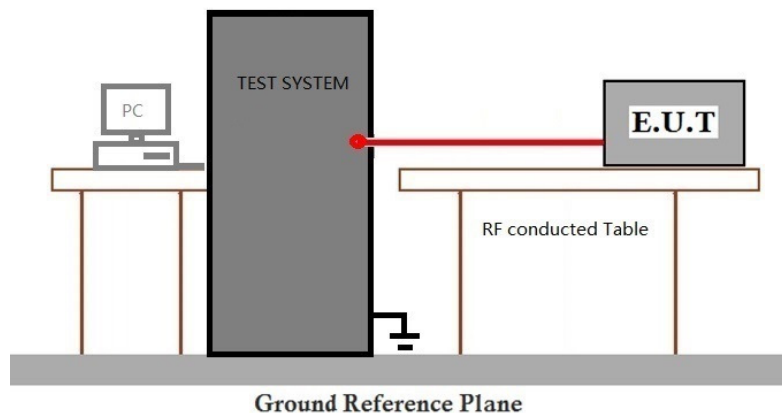
Operating Environment:

Temperature: 28.6 °C Humidity: 53.8 % RH Atmospheric Pressure: 1018 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with O-QPSK modulation.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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8 Test Setup Photo

Refer to Setup Photo for HKEM2606000651PF

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9 EUT Constructional Details (EUT Photos)

Refer to the appendices external and internal photos.

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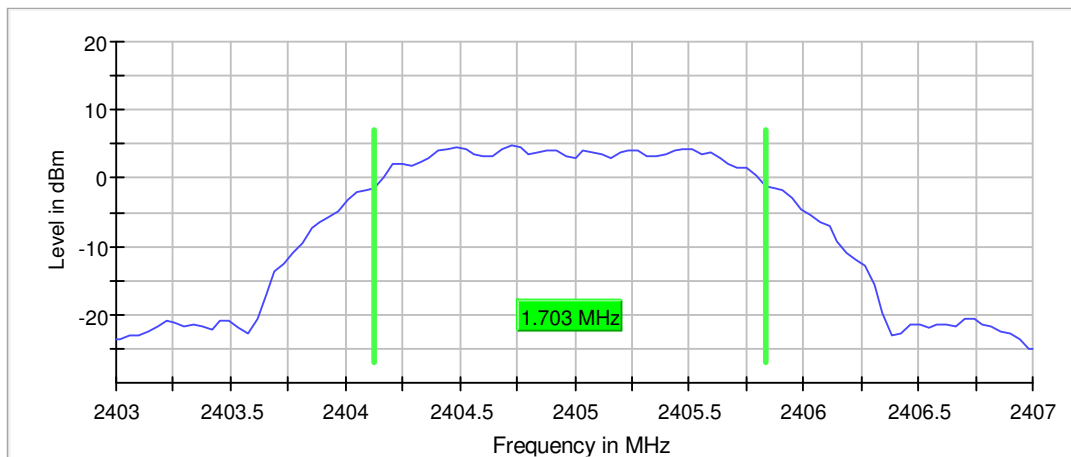
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10 Appendix

10.1 Minimum 6dB Bandwidth

Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Result
2405.000000	1.702970	0.500000	PASS
2440.000000	1.702970	0.500000	PASS
2480.000000	1.702970	0.500000	PASS

6 dB Bandwidth

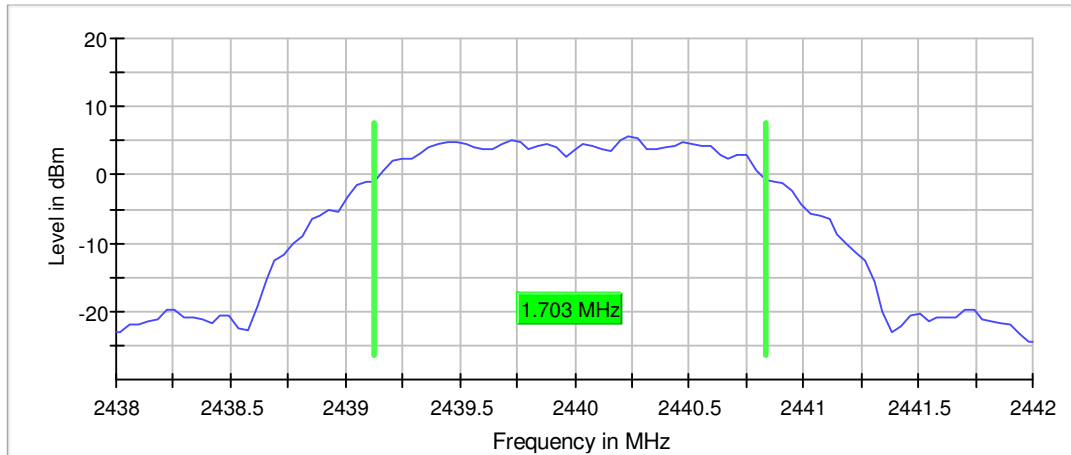


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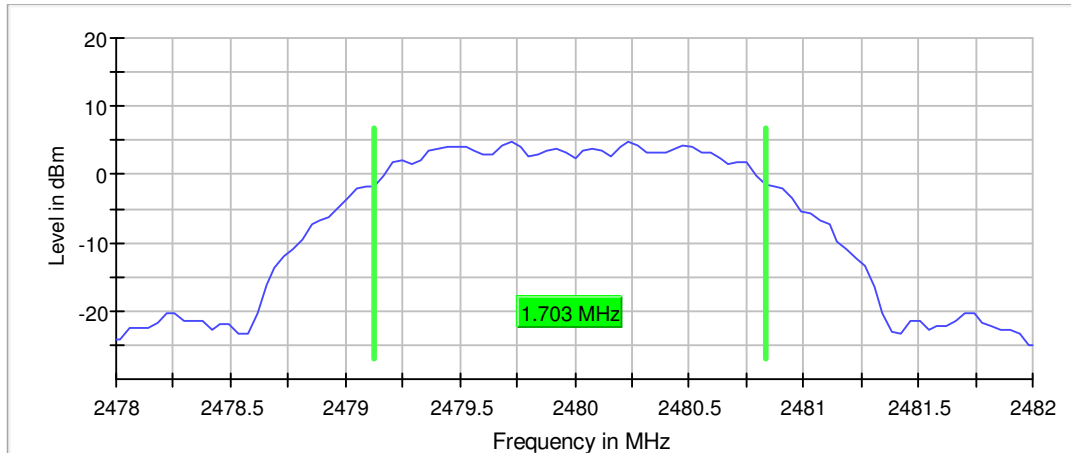
6 dB Bandwidth



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6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	18.938 us	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	17 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Remark: Cable loss 0.8dB was considered and set in system configuration.

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10.2 Peak conducted output power

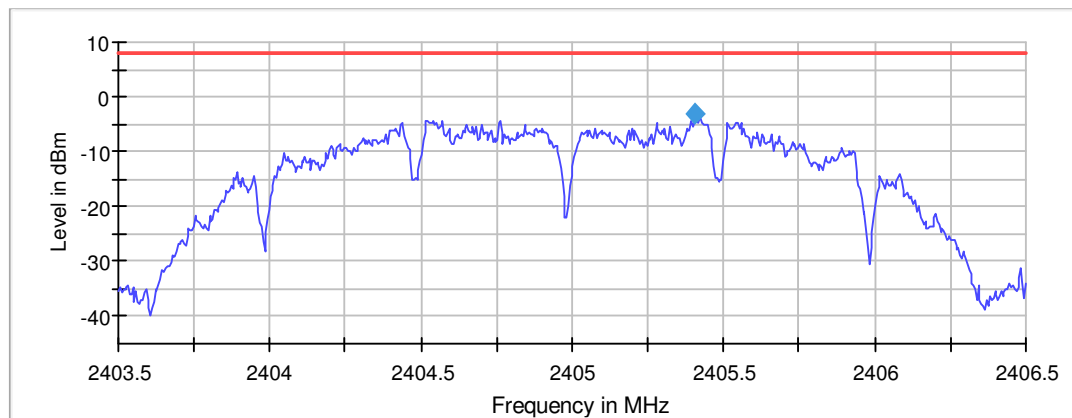
Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
2405.000000	8.9	30.0	PASS
2440.000000	9.4	30.0	PASS
2480.000000	8.7	30.0	PASS

Remark: Cable loss 0.8dB was considered and set in system configuration.

10.3 Power Spectrum Density

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2405.407500	-3.017	8.0	PASS

Power Spectral Density



— Limit — Sum Level ◆ PSD

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.407500	-2.891	8.0	PASS

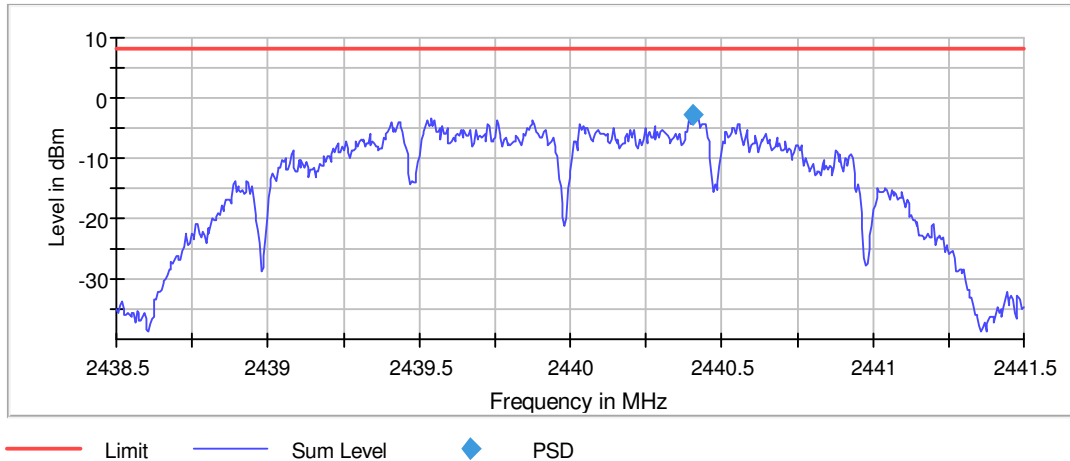
Ports

Port	State
1	used

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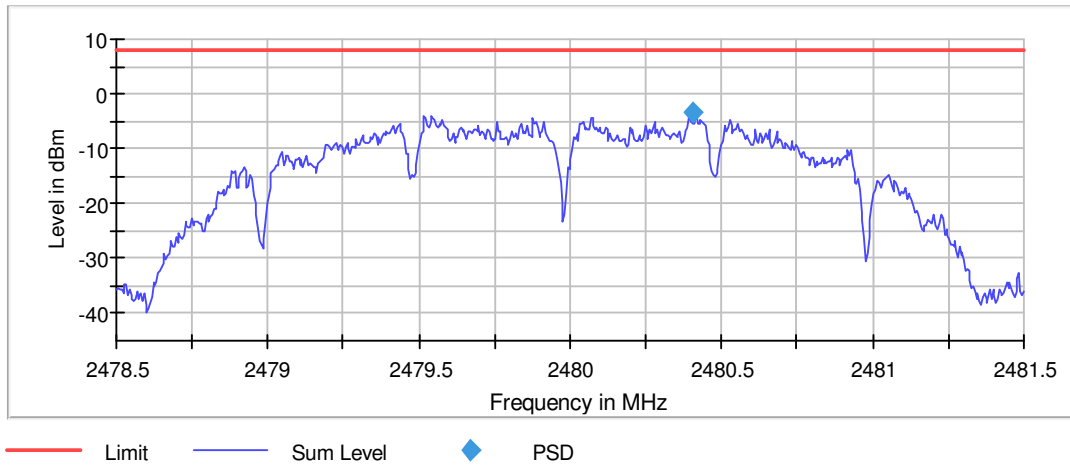
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Power Spectral Density



DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.407500	-3.553	8.0	PASS

Power Spectral Density



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47850 GHz	2.47850 GHz
Stop Frequency	2.48150 GHz	2.48150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
Sweptime	12.000 ms	12.000 ms

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Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	Peak	Peak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	89 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.39 dB	0.50 dB

Remark: Cable loss 0.8dB was considered and set in system configuration.

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10.4 Conducted Band Edge Measurement

Inband Peak

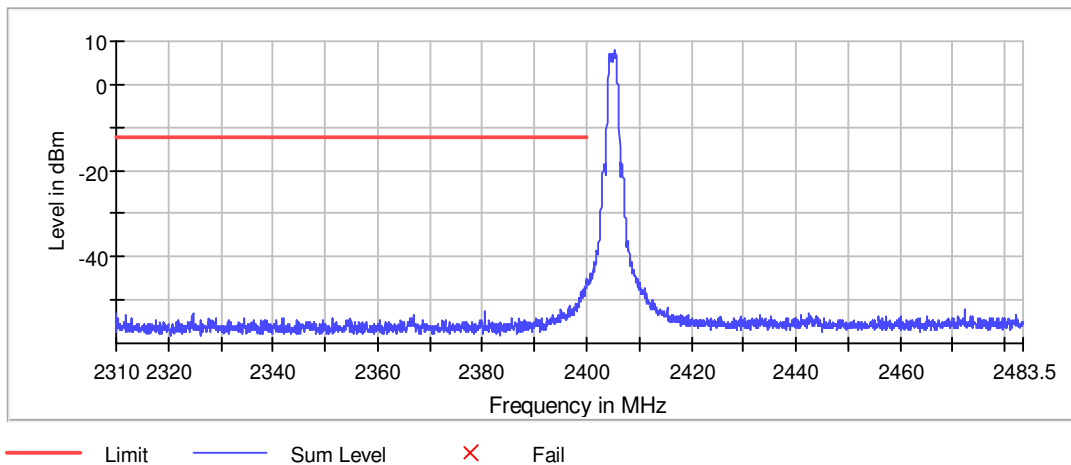
Frequency (MHz)	Level (dBm)
2405.200000	7.7
2479.775000	7.7

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.925000	-45.1	32.7	-12.3	PASS
2483.525000	-40.5	28.2	-12.3	PASS

Remark: Limit = Inband peak – 20dB

Only the worst case is shown.

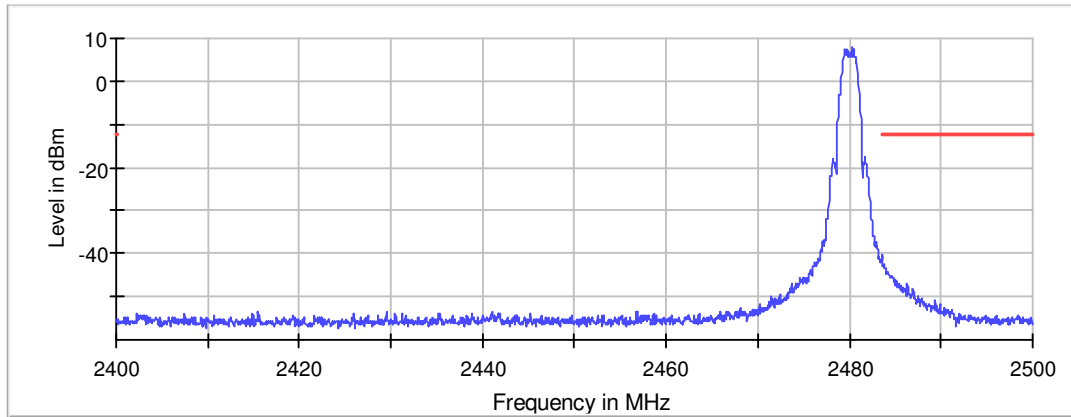
Band Edge



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Band Edge



— Limit — Sum Level × Fail

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Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	16 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	2.48350 GHz	2.48350 GHz
Stop Frequency	2.50000 GHz	2.50000 GHz
Span	16.500 MHz	16.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	330	~ 330
SweepTime	37.969 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.48 dB	0.50 dB

Remark: Cable loss 0.8dB was considered and set in system configuration.

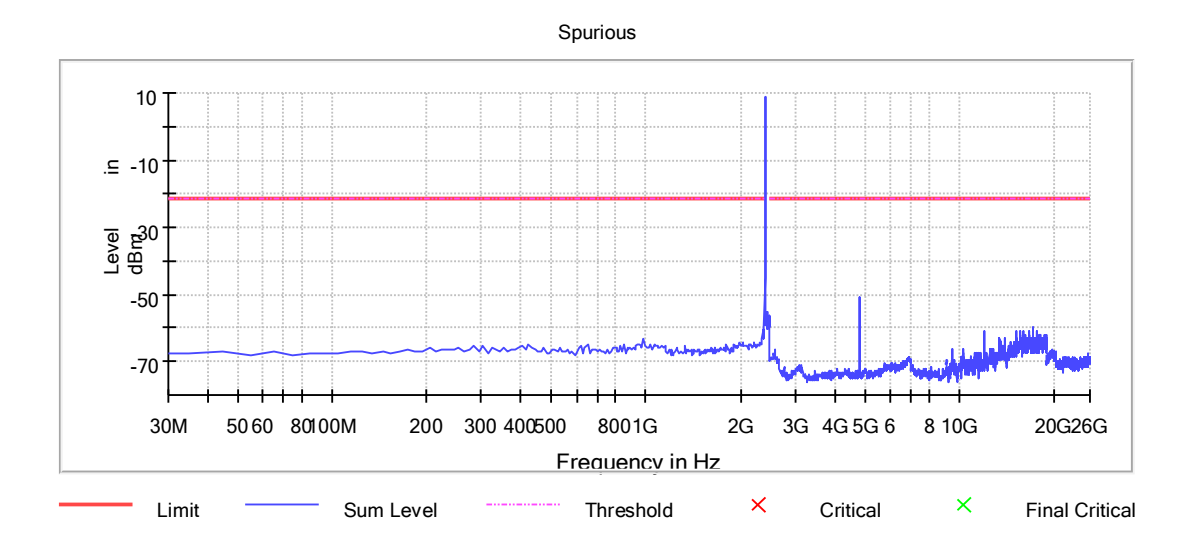
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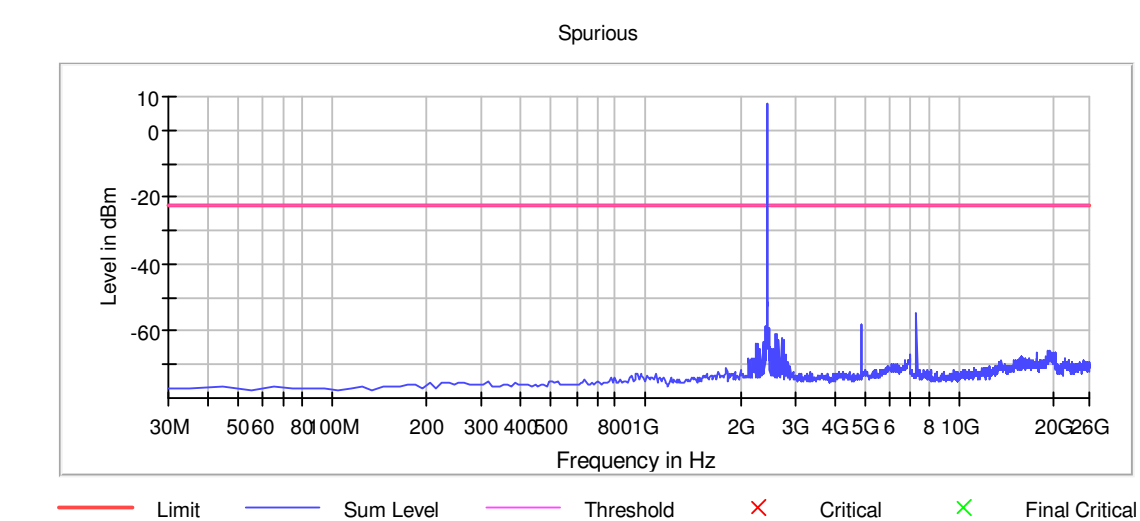
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10.5 Conducted spurious emission

Lowest Channel



Middle Channel

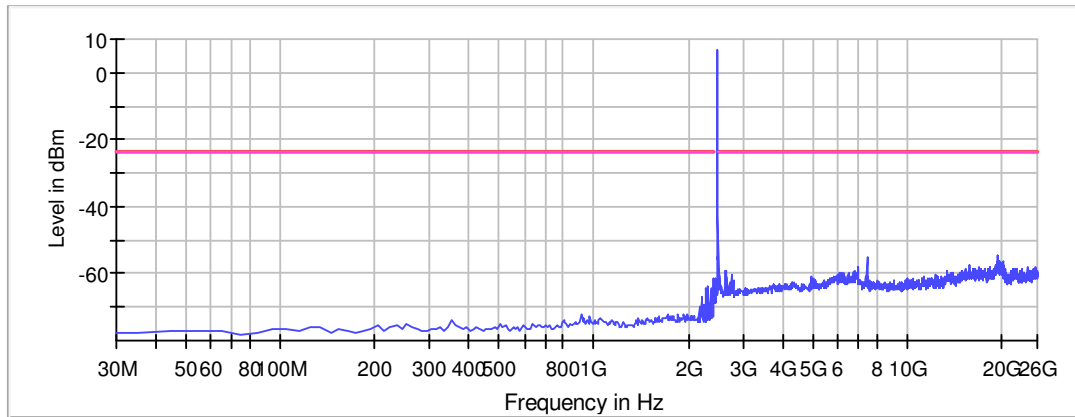


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Highest Channel

Spurious



— Limit — Sum Level — Threshold × Critical × Final Critical

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Remark: Cable loss 0.8dB was considered and set in system configuration.

- End of the Report -

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