

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260800049105

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TEST REPORT

Application No.: FYCR2608000491AT
Applicant: Aura Home, Inc.
Address of Applicant: 148 Lafayette Street Floor 5, New York, 10013 United States
Manufacturer: Aura Home, Inc.
Address of Manufacturer: 148 Lafayette Street, Floor 5, New York, NY 10013, USA
Equipment Under Test (EUT):
EUT Name: Digital Photo Frame
Model No.: AF330, AF33X-YYYY (X is an Arabic numeral, representing different sales channels and regions, YYYY are Latin alphabets, representing different colors of product housing enclosure) ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: AURA
FCC ID: 2AZGI-AF330
Standard(s) : 47 CFR Part 15, Subpart C 15.255
Date of Receipt: 2026-08-24
Date of Test: 2026-08-25 to 2026-09-11
Date of Issue: 2026-09-20

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-20		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Result
Antenna Requirement	15.203	--	PASS
Conducted Emissions at AC Power Line (150kHz-30MHz)	15.207	ANSI C63.10-2020+Cor.1-2023 section 6.2	Pass
Transmitter power and Transmitter off-times	15.255(c)(2)(iii)(A)	ANSI C63.10-2020+COR.1-2023 Section 9.2.1/9.2.2	PASS
Occupied bandwidth	15.215 (c), 15.255 (c)(2)	ANSI C63.10-2020+Cor.1-2023 Section 9.4	PASS
Radiated spurious emissions below 40 GHz	15.255 (d)(2)	ANSI C63.10-2020+Cor.1-2023 Section 9.11	PASS
Radiated emissions outside assigned band and above 40 GHz up to 200 GHz	15.255 (d)(3)	ANSI C63.10-2020+Cor.1-2023 Section 9.10	PASS
Frequency stability	15.255 (f)	ANSI C63.10-2020+Cor.1-2023 Section 9.5	PASS

Declaration of EUT Family Grouping:

Model No.: AF330, AF33X-YYYY (X is an Arabic numeral, representing different sales channels and regions, YYYY are Latin alphabets, representing different colors of product housing enclosure)

Only the model AF330 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, only different on model No., SKU naming and colors of enclosure for marketing purpose.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.87V, 12600mAh rechargeable battery which charged by USB Type-C adapter AURA 20W GaN Charger Model No.: AURA20-001 Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 3.0A or DC 9.0V, 2.22A or DC 12.0V, 1.67A
Operation Frequency:	57GHz-64GHz
Modulation Type:	FMCW
Antenna Type:	AIP Antenna
Antenna Gain:	3.0dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS 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.
RF Cable	SGS	N/A(cable loss: 2.6dB)	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Transmitter power	$\pm 0.43\text{dB}$
Power spectral density	$\pm 0.38\text{dB}$
Occupied bandwidth	$\pm 0.27\%$
Radiated Spurious Emissions Below 1GHz	$\pm 5.7\text{dB}$
Radiated Spurious Emissions Above 1GHz	$\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (Above 18GHz)

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.



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4.4 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions (below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/08/28
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2026/7/3	2027/7/2
Pre-amplifier	HP	8447D	SEM005-02	2026/7/7	2027/7/6
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-03-04	2027-03-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G60	SEM005-32	2026-04-04	2027-04-03
Pre-amplifier(18GHz-40GHz)	TST	LNA180400G40	SEM005-39	2026-04-29	2027-04-28
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-02	2026-05-12	2027-05-11
Coaxial Cable	SGS	N/A	SEM035-03	2026-05-12	2027-05-11



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Horn-antenna 40-60GHz	REBES	SAZ-2410-19-S1	SEM020-02	08/06/2021	08/05/2031
Horn-antenna 50-75GHz	REBES	SAZ-2410-15-S1	SEM020-03	08/06/2021	08/05/2031
Horn-antenna 75-110GHz	REBES	SAZ-2410-10-S1	SEM020-04	08/06/2021	08/05/2031
Horn-antenna 110-170GHz	REBES	SAZ-2410-06-S1	SEM020-05	08/06/2021	08/05/2031
Horn-antenna 140-220GHz	REBES	SAZ-2410-05-S1	SEM020-06	08/06/2021	08/05/2031
Horn-antenna 220-325GHz	REBES	SAR-2309-03-S2	SEM020-07	08/06/2021	08/05/2031
Extended waveguide 40-60GHz	REBES	SWG-19025-FB	SEM020-08	08/06/2021	08/05/2031
Extended waveguide 50-75GHz	REBES	SWG-15025-FB	SEM020-09	08/06/2021	08/05/2031
Extended waveguide 75-110GHz	REBES	SWG-10025-FB	SEM020-10	08/06/2021	08/05/2031
Extended waveguide 110-170GHz	REBES	SWG-06025-FB	SEM020-11	08/06/2021	08/05/2031
Extended waveguide 140-220GHz	REBES	SWG-05025-FB	SEM020-12	08/06/2021	08/05/2031
Extended waveguide 220-325GHz	REBES	SWG-03025-FB	SEM020-13	08/06/2021	08/05/2031
Waveguide Harmonic Mixer 40-60GHz	REBES	STH-19SF-S1	SEM020-14	08/06/2021	08/05/2031
Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	SEM020-15	08/06/2021	08/05/2031
Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	SEM020-16	08/06/2021	08/05/2031
Waveguide Harmonic Mixer110-170GHz	REBES	STH-06SF-S1	SEM020-17	08/06/2021	08/05/2031
Waveguide Harmonic Mixer140-220GHz	REBES	HM 140-220	SEM020-18	08/06/2021	08/05/2031
Waveguide Harmonic Mixer220-325GHz	REBES	HM 220-325	SEM020-19	08/06/2021	08/05/2031
Waveguide Harmonic Mixer(Below 75GHz) cable	Silverline	SLU18-SMSM-01.00M	SEM020-20	08/06/2021	08/05/2031
Waveguide Harmonic Mixer(Above 75GHz) cable	Silverline	SLU18-SMSM-01.00M	SEM020-21	08/06/2021	08/05/2031
Spectrum Analyzer Extension Module(50-75GHz)	VIRGINIA Diodes Inc.	SAX	SEM020-22	08/06/2021	08/05/2031
Spectrum Analyzer Extension Module(60-90GHz)	VIRGINIA Diodes Inc.	SAX	SEM020-23	08/06/2021	08/05/2031
Spectrum Analyzer Extension Module(90-140GHz)	VIRGINIA Diodes Inc.	SAX	SEM020-24	08/06/2021	08/05/2031
Spectrum Analyzer Extension Module(140-220GHz)	VIRGINIA Diodes Inc.	SAX	SEM020-25	08/06/2021	08/05/2031



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

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025/10/13	2028/10/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-24	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM033-02	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026/7/8	2027/7/7
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026/7/8	2027/7/7
Barometer	Xiangruide	DYM3	SEM002-24	2026/7/10	2027/7/9



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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

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to internal photos



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart 15.207
 Test Method: ANSI C63.10-2020+Cor.1-2023 section 6.2
 Test Engineer: Fly Yan
 Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

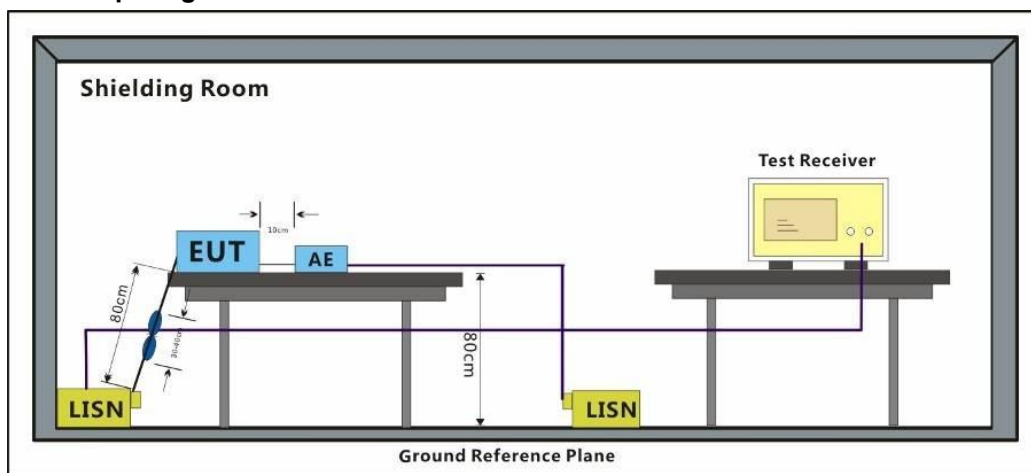
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.6 °C Humidity: 52.4 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	Charge + Continuous Tx Mode: Keep the EUT in charge and Transmitting with Modulation

7.1.3 Test Setup Diagram



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

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.



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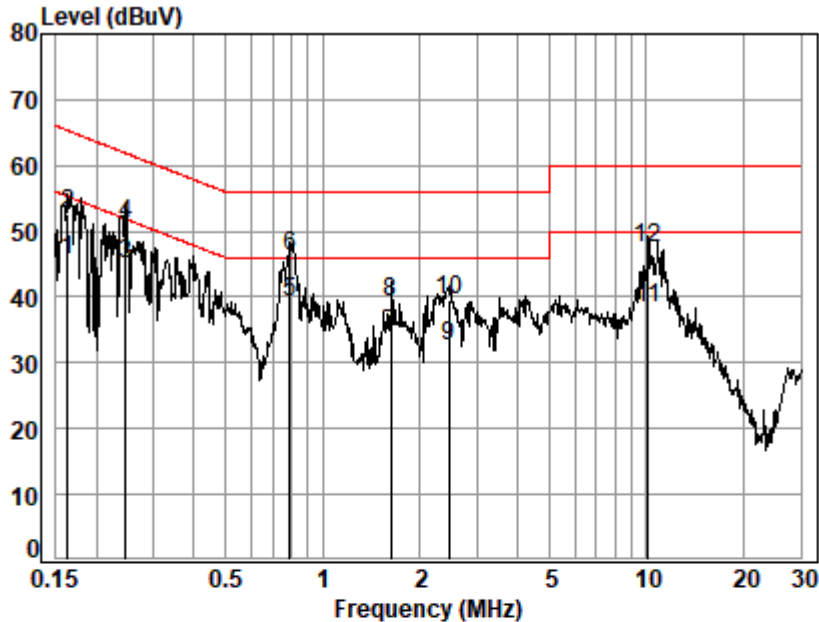
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Test Mode: 18; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00491AT
Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1633	0.02	9.79	35.85	45.66	55.30	-9.64	Average
2	0.1633	0.02	9.79	42.85	52.66	65.30	-12.64	QP
3	0.2455	0.03	9.77	35.22	45.02	51.91	-6.89	Average
4	0.2455	0.03	9.77	41.22	51.02	61.91	-10.89	QP
5	0.7918	0.07	9.81	29.36	39.24	46.00	-6.76	Average
6	0.7918	0.07	9.81	36.36	46.24	56.00	-9.76	QP
7	1.6276	0.04	9.63	24.67	34.34	46.00	-11.66	Average
8	1.6276	0.04	9.63	29.67	39.34	56.00	-16.66	QP
9	2.4476	0.04	9.86	22.79	32.69	46.00	-13.31	Average
10	2.4476	0.04	9.86	29.79	39.69	56.00	-16.31	QP
11	10.1254	0.05	9.78	28.60	38.43	50.00	-11.57	Average
12	10.1254	0.05	9.78	37.60	47.43	60.00	-12.57	QP



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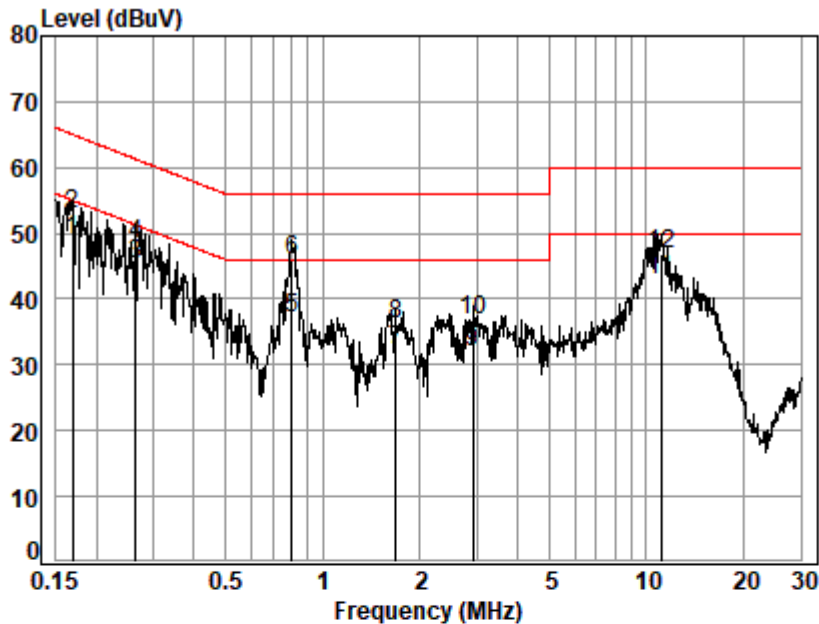
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Test Mode: 18; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00491AT
Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1685	0.02	9.82	39.04	48.88	55.03	-6.15	Average
2	0.1685	0.02	9.82	43.04	52.88	65.03	-12.15	QP
3	0.2644	0.03	9.59	35.72	45.34	51.29	-5.95	Average
4	0.2644	0.03	9.59	38.72	48.34	61.29	-12.95	QP
5	0.8045	0.07	9.67	27.23	36.97	46.00	-9.03	Average
6	0.8045	0.07	9.67	36.23	45.97	56.00	-10.03	QP
7	1.6802	0.04	9.80	22.46	32.30	46.00	-13.70	Average
8	1.6802	0.04	9.80	26.46	36.30	56.00	-19.70	QP
9	2.9152	0.04	9.73	22.17	31.94	46.00	-14.06	Average
10	2.9152	0.04	9.73	27.17	36.94	56.00	-19.06	QP
11	11.0797	0.05	9.94	32.79	42.78	50.00	-7.22	Average
12	11.0797	0.05	9.94	36.79	46.78	60.00	-13.22	QP



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7.2 Transmitter power and Transmitter off-times

Test Requirement 47 CFR Part 15C Section 15.255 (c)(2)(iii)(A)

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.2.1, 9.2.2

Test Engineer: Ian Li

Limit: The peak EIRP shall not exceed 14 dBm, and the sum of continuous transmitter off-times of at least two milliseconds shall equal at least 25.5 milliseconds within any contiguous interval of 33 milliseconds

7.2.1 E.U.T. Operation

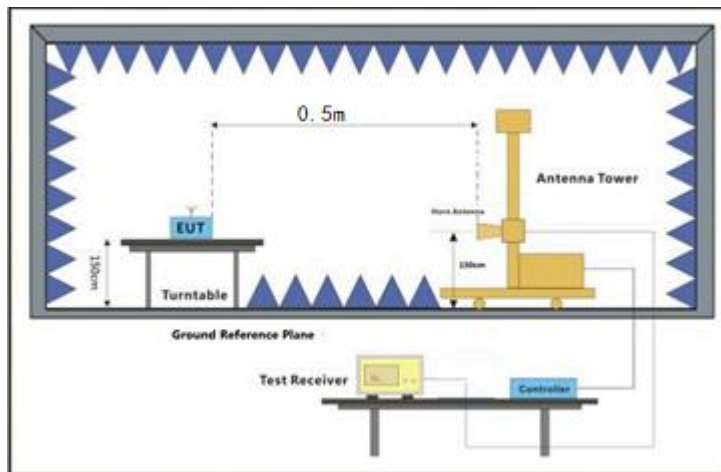
Operating Environment:

Temperature: 22.2 °C Humidity: 53.2 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Continuous Tx Mode: Keep the EUT Transmitting with Modulation
Final test	18	Charge + Continuous Tx Mode: Keep the EUT in charge and Transmitting with Modulation

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- For transmitter power test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.5 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the same height and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Spectrum analyser setting during test.

- Place the EUT on the table and set it in the transmitting mode.
- SA set RBW=1MHz, VBW=3*RBW, Detector=Peak Trace: Max Hold, Peak Search.
- During test, the module will be rotate for 0 degrees to 360 degrees in X, Y, Z axis to find the maximum reading base on the previous test in different host-specific condition and the worst data was record in the report.

Please Refer to Appendix for Details



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7.3 Occupied Bandwidth

Test Requirement 47 CFR Part 15C Section 15.215(c), 15.255 (c)(2)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.4
 Test Engineer: Ian Li
 Limit: 57-64GHz

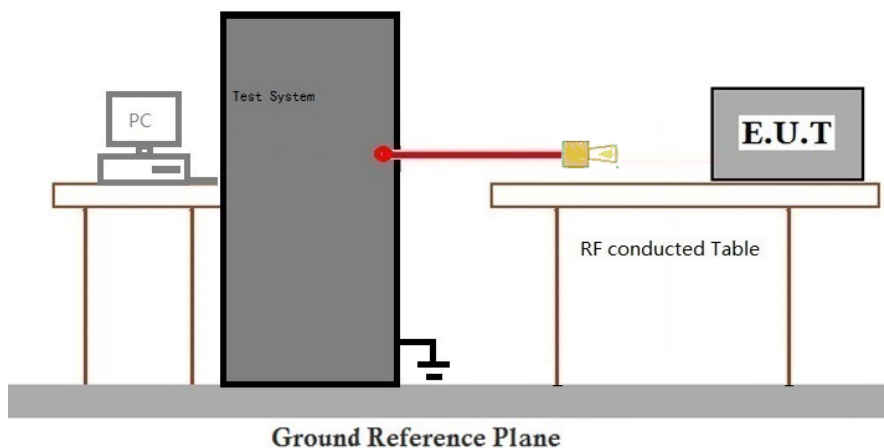
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.2 °C Humidity: 53.2 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

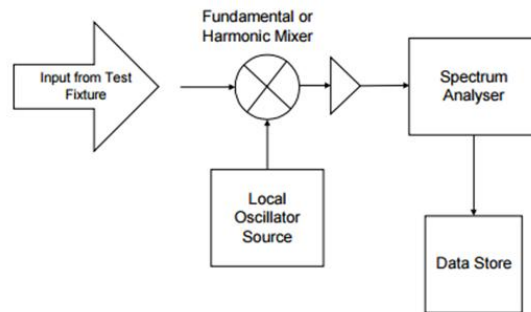
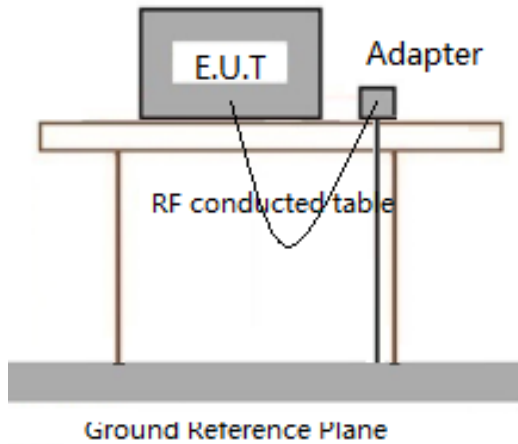
Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Continuous Tx Mode: Keep the EUT Transmitting with Modulation
Final test	18	Charge + Continuous Tx Mode: Keep the EUT in charge and Transmitting with Modulation

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

1. Place the EUT on the table and set it in the transmitting mode.
2. SA set RBW=1%~5% OBW, or a minimum of 1 MHz if this is not possible due to a large OBW, VBW=3*RBW and Detector=Peak.
3. Measure and record the result of 20dB and 99% bandwidth.

Please Refer to Appendix for Details



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7.4 Radiated spurious emissions below 40 GHz

Test Requirement 47 CFR Part 15C Section 15.255 (d)(2)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.11
 Test Engineer: Ian Li
 Limit:

Below 30MHz:

Frequency	Field Strength (μV/m)	Measurement Distance (metres)
9 - 490 kHz	2,400/F (kHz)	300
490 - 1,705 kHz	24,000/F (kHz)	30
1.705-30 MHz	30	30

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.

Above 30MHz:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (metres)
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.



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Frequency (MHz)	Field strength at 3 m, dB(uV/m)*		
	Within restricted bands		
	Peak	Quasi Peak	Average
0.009 - 0.090	148.5 - 128.5	NA	128.5 - 108.5**
0.090 - 0.110	NA	108.5 - 106.8**	NA
0.110 - 0.490	126.8 - 113.8	NA	106.8 - 93.8**
0.490 - 1.705	NA	73.8 - 63.0**	NA
1.705 - 30.0*		69.5	
30 - 88		40.0	
88 - 216		43.5	
216 - 960		46.0	
Above 960		54.0	
1000 - 200000	74.0	N/A	54.0

*- The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows:

$$\text{LimS2} = \text{LimS1} + 20 \log (S1/S2),$$

where S1 and S2 - standard defined and test distance respectively in meters.

** - The limit decreases linearly with the logarithm of frequency.

Note: The above field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency but not exceeding 40 GHz for intentional radiators operated below 10 GHz and up to the fifth harmonic of the highest fundamental frequency but not exceeding 200 GHz for intentional radiators operated above 30 GHz.

Frequency (MHz)	Field strength at 1 m, dB(uV/m)*		
	Within restricted bands		
	Peak	Quasi Peak	Average
1000 - 200000	83.5	N/A	63.5

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C

Humidity: 53.2 % RH

Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Continuous Tx Mode: Keep the EUT Transmitting with Modulation
Final test	18	Charge + Continuous Tx Mode: Keep the EUT in charge and Transmitting with Modulation

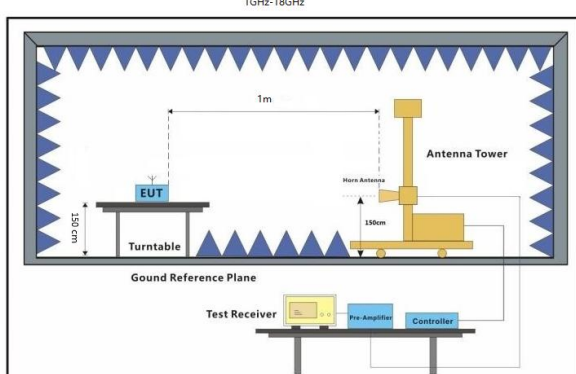
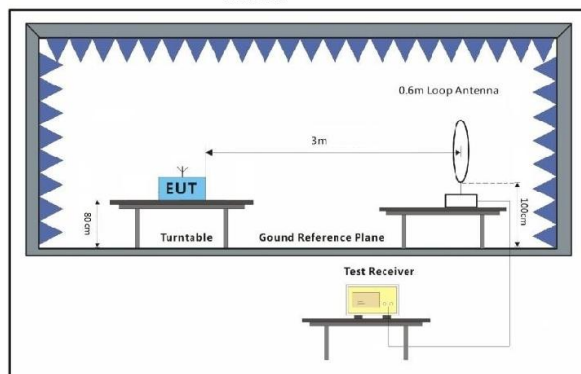
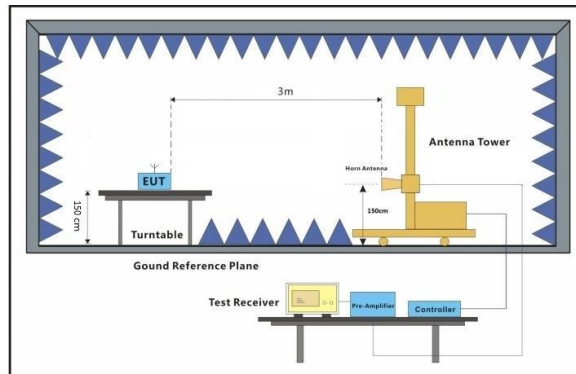
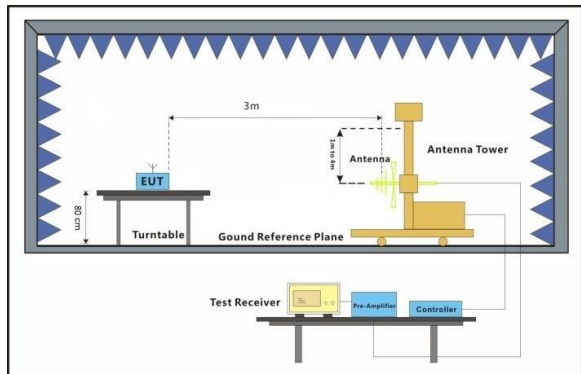


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7.4.3 Test Setup Diagram



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7.4.4 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 1-18GHz, 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. For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 the same height (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. 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: 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: Scan from 9kHz to 40GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Remark 4: The data shows that a Peak margin greater than 20dB is equivalent to meeting AV requirements.



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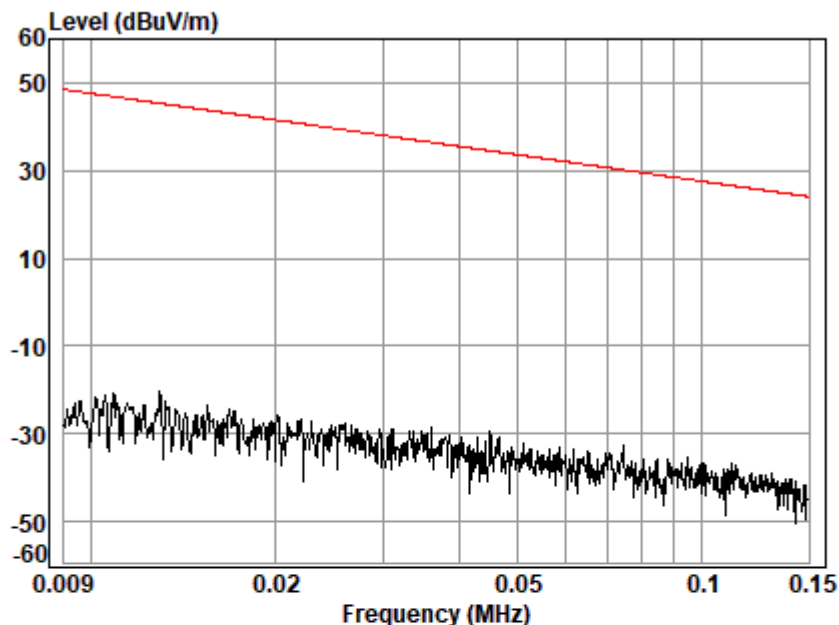
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Condition: 3m
Job No. : 00491AT
Test Mode: 18
: coaxial



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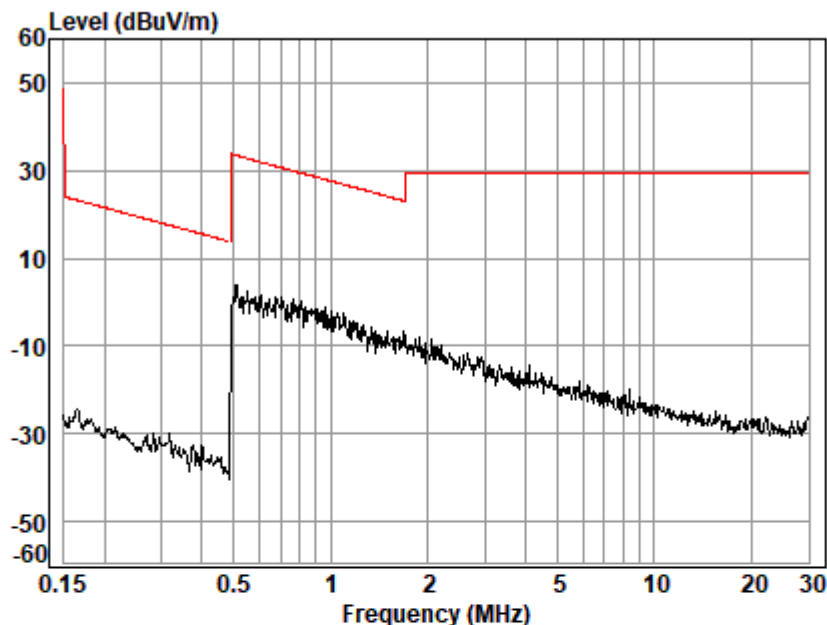
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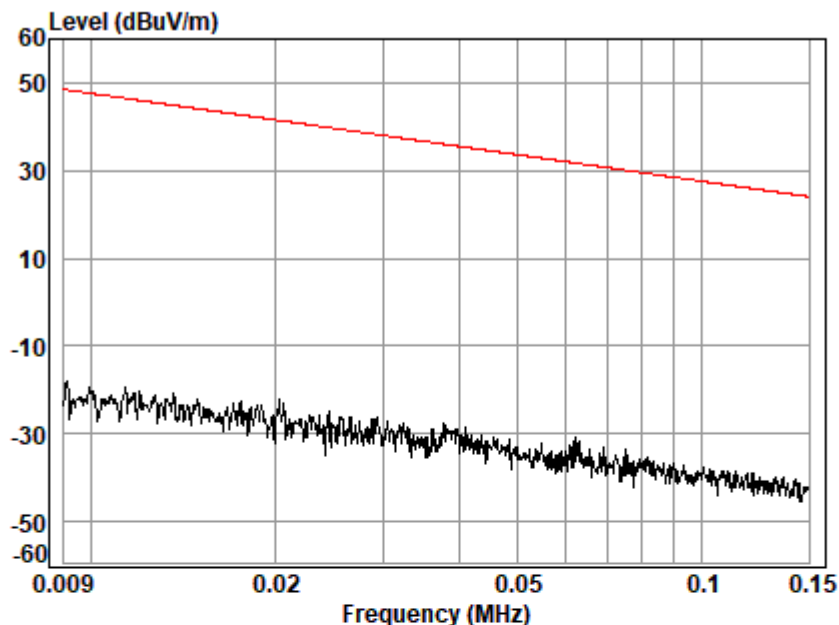
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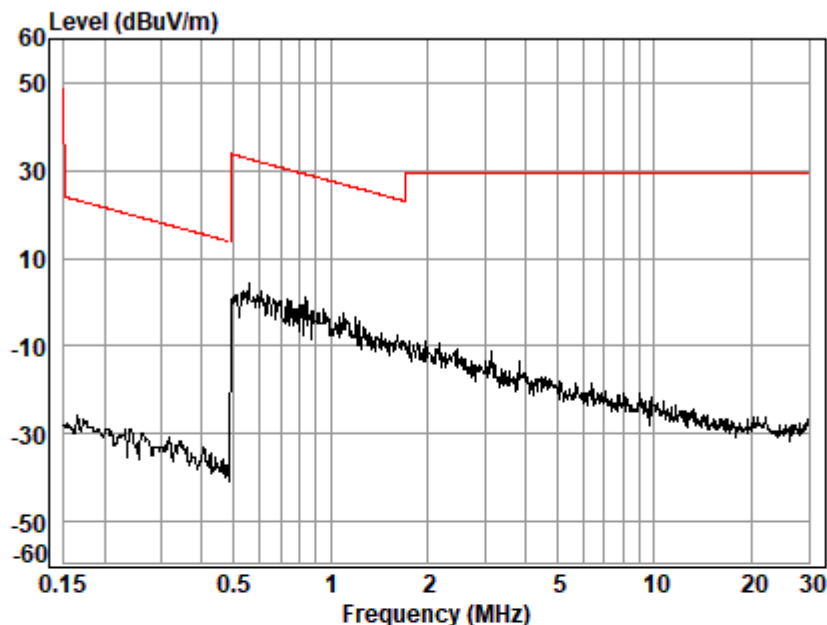
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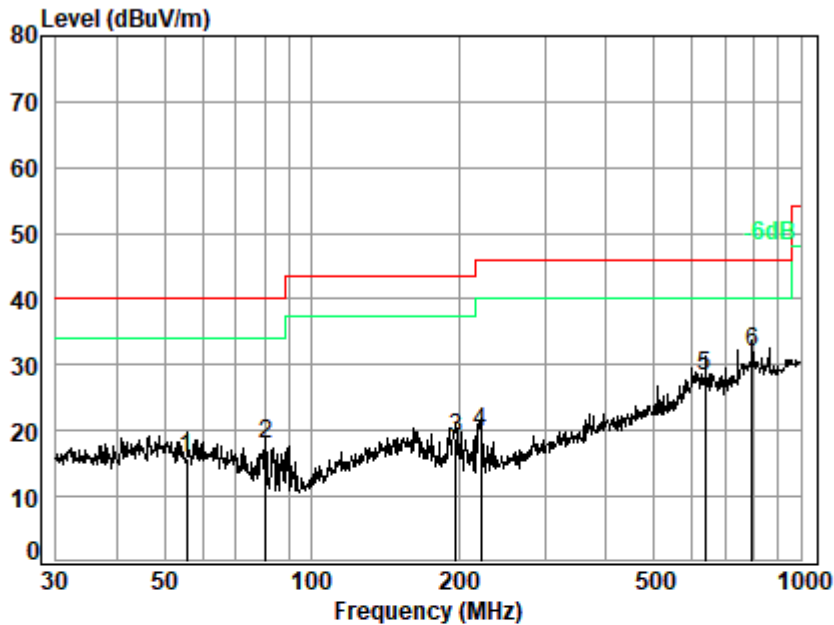
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Test Mode: 18; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00491AT/00492AT

Mode : 12

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	55.609	17.63	0.36	26.10	23.91	15.80	40.00	-24.20 QP
2	80.362	13.07	0.71	26.10	30.25	17.93	40.00	-22.07 QP
3	197.200	13.99	1.20	25.47	29.29	19.01	43.50	-24.49 QP
4	222.170	13.91	0.82	25.39	30.45	19.79	46.00	-26.21 QP
5	638.369	24.40	2.90	26.55	27.50	28.25	46.00	-17.75 QP
6	796.183	26.87	3.38	26.50	28.13	31.88	46.00	-14.12 QP



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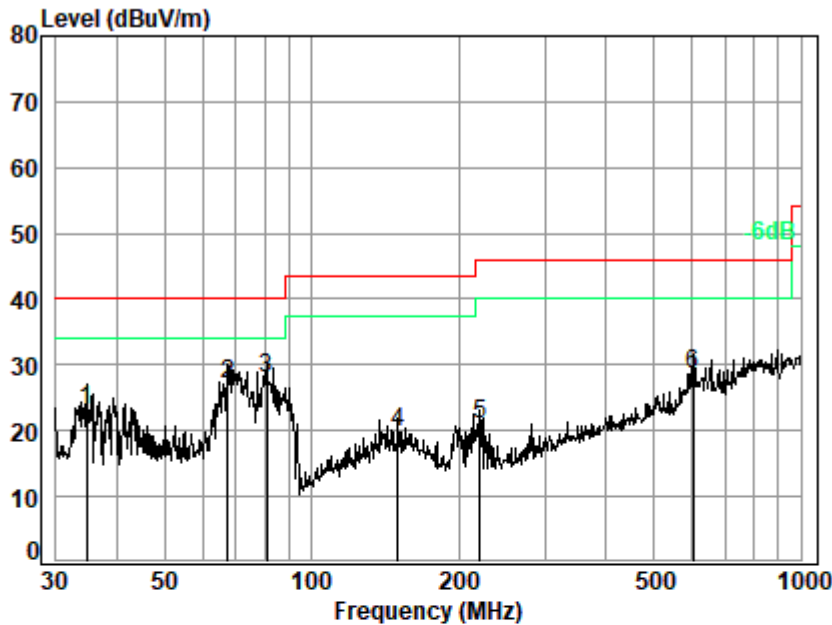
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260800049105

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Test Mode: 18; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : 00491AT/00492AT

Mode : 12

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.639	16.75	0.60	26.12	31.76	22.99	40.00	-17.01	QP
2	67.202	16.26	0.73	26.10	36.23	27.12	40.00	-12.88	QP
3	80.927	12.94	0.70	26.09	40.56	28.11	40.00	-11.89	QP
4	150.011	17.41	1.30	25.64	26.83	19.90	43.50	-23.60	QP
5	220.617	13.92	0.85	25.40	31.74	21.11	46.00	-24.89	QP
6	601.427	24.00	3.51	26.56	27.71	28.66	46.00	-17.34	QP



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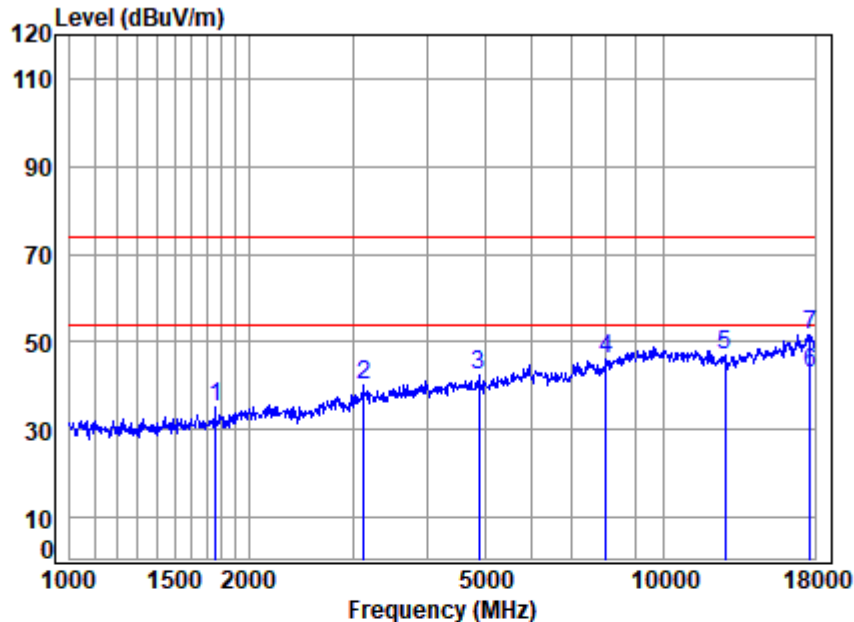
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Test Mode: 18; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No : 00491AT\00492AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1757.026	5.88	25.53	53.44	57.24	35.21	74.00	-38.79	Peak	0.00
2	3123.039	7.40	29.25	52.90	56.29	40.04	74.00	-33.96	Peak	0.00
3	4888.151	8.29	32.16	53.17	55.15	42.43	74.00	-31.57	Peak	0.00
4	8013.020	9.40	36.90	54.20	53.76	45.86	74.00	-28.14	Peak	0.00
5	12687.750	13.30	38.84	54.10	49.16	47.20	74.00	-26.80	Peak	0.00
6	pp17690.530	14.45	40.06	51.56	39.75	42.70	54.00	-11.30	Average	0.00
7	pk17690.530	14.45	40.06	51.56	48.79	51.74	74.00	-22.26	Peak	0.00



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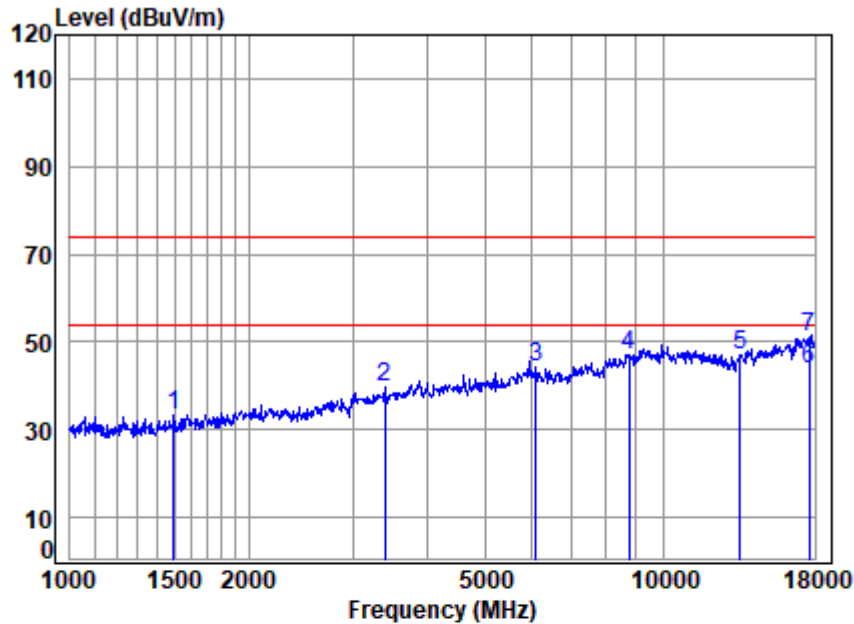
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Test Mode: 18; Polarity: Vertical



Condition: 3m VERTICAL

Job No : 00491AT\00492AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1494.455	4.63	25.48	53.37	56.68	33.42	74.00	-40.58	Peak	0.00
2	3396.098	7.53	28.95	52.90	55.90	39.48	74.00	-34.52	Peak	0.00
3	6088.991	8.32	33.89	53.29	55.56	44.48	74.00	-29.52	Peak	0.00
4	8738.852	10.25	38.34	53.98	52.50	47.11	74.00	-26.89	Peak	0.00
5	13481.720	11.92	40.29	54.00	48.68	46.89	74.00	-27.11	Peak	0.00
6	pp17639.470	14.45	39.86	51.57	41.00	43.74	54.00	-10.26	Average	0.00
7	pk17639.470	14.45	39.86	51.57	48.23	50.97	74.00	-23.03	Peak	0.00



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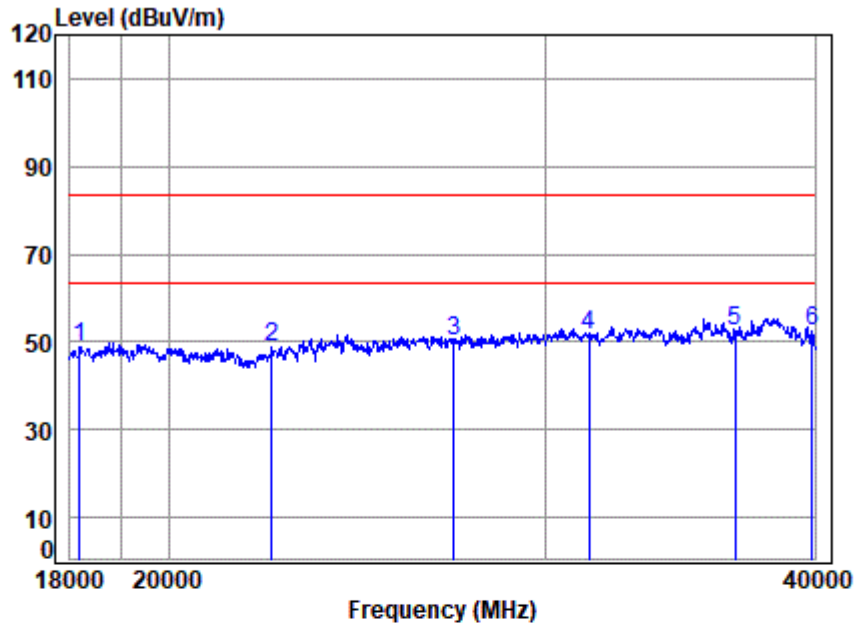
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Test Mode: 18; Polarity: Horizontal



Condition: 1m HORIZONTAL

Job No : 00491AT\00492AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	18187.820	9.60	36.50	48.14	50.78	48.74	83.54	-34.80	Peak	0.00
2	22348.680	9.03	37.34	45.79	48.06	48.64	83.54	-34.90	Peak	0.00
3	27177.830	10.56	39.00	44.79	45.46	50.23	83.54	-33.31	Peak	0.00
4	31403.880	11.21	40.42	44.87	44.84	51.60	83.54	-31.94	Peak	0.00
5	36724.320	12.78	42.41	47.39	44.49	52.29	83.54	-31.25	Peak	0.00
6	pp39904.290	12.35	43.12	47.84	44.93	52.56	83.54	-30.98	Peak	0.00



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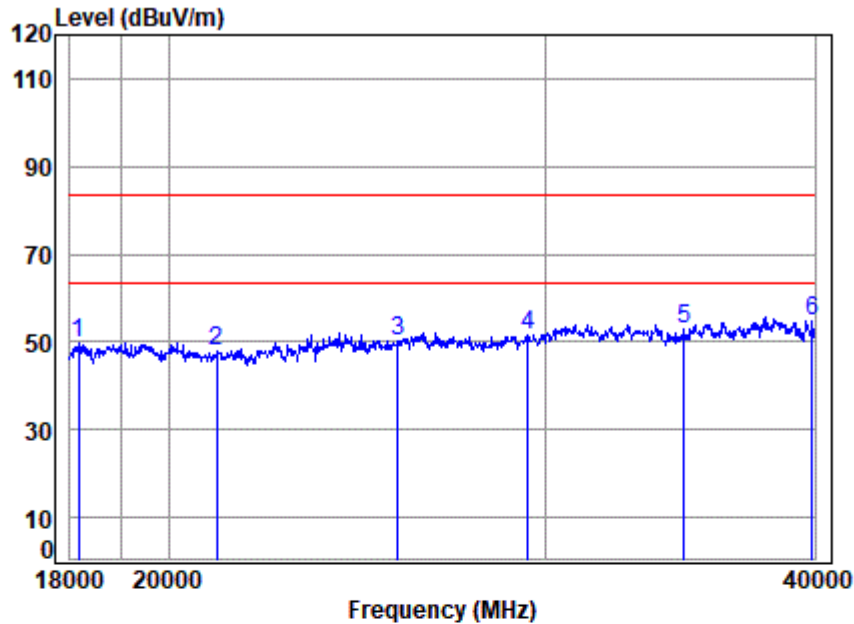
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Test Mode: 18; Polarity: Vertical



Condition: 1m VERTICAL

Job No : 00491AT\00492AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	18173.310	9.62	36.50	48.15	51.70	49.67	83.54	-33.87	Peak	0.00
2	21066.370	8.88	37.49	47.40	48.88	47.85	83.54	-35.69	Peak	0.00
3	25577.550	10.05	39.50	44.72	45.57	50.40	83.54	-33.14	Peak	0.00
4	29413.510	10.80	39.53	45.03	46.18	51.48	83.54	-32.06	Peak	0.00
5	34783.410	11.56	41.77	46.96	46.34	52.71	83.54	-30.83	Peak	0.00
6	pp39904.290	12.35	43.12	47.84	47.02	54.65	83.54	-28.89	Peak	0.00



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7.5 Radiated emissions outside assigned band and above 40 GHz up to 200 GHz

Test Requirement 47 CFR Part 15C Section 15.255 (d)(3)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.10
 Test Engineer: Ian Li
 Limit:

Above 40GHz:

Frequency (GHz)	Power density at 3 m distance (pW/cm ²)	Distance (m)	Field strength (dBuV/m)*, peak	Field strength (dBuV/m)*, average
40 - 200	90	3.0	105.31	85.31
40 - 200	90	1.0	114.85**	94.85**

* - Field strength was calculated per equation (26) of ANSI C63.10-2020+Cor.1-2023 section 9 as follows: $E = \sqrt{PD \times 377}$, where PD is the power density at the distance specified by the limit in W/m², E- field strength in V/m.

** - The limit for other test distance was calculated using the inverse distance extrapolation factor as follows:

$LimS2 = LimS1 + 20 \log (S1/S2)$, where S1 and S2 - standard defined and test distance respectively in meters.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 53.2 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

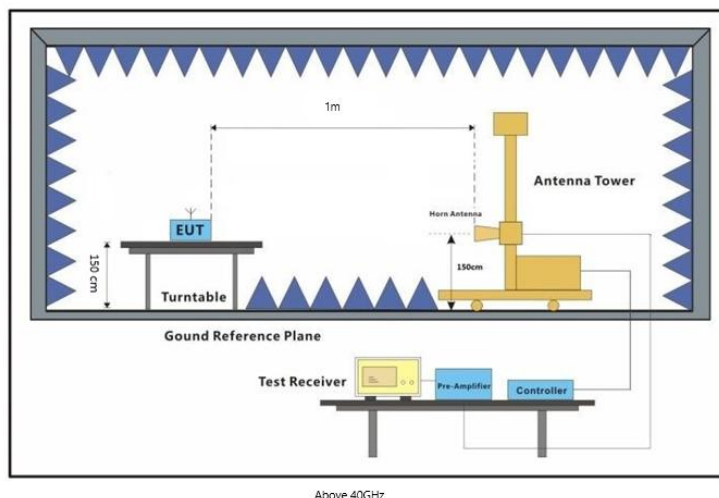
Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Continuous Tx Mode: Keep the EUT Transmitting with Modulation
Final test	18	Charge + Continuous Tx Mode: Keep the EUT in charge and Transmitting with Modulation



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the same height (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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Remark 2: For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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7.6 Frequency Stability

Test Requirement 47 CFR Part 15C Section 15.255 (f)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.5
 Test Engineer: Ian Li
 Limit:

Frequency (GHz)	Limit
57 - 64	The signal must be contained within assigned frequency band.

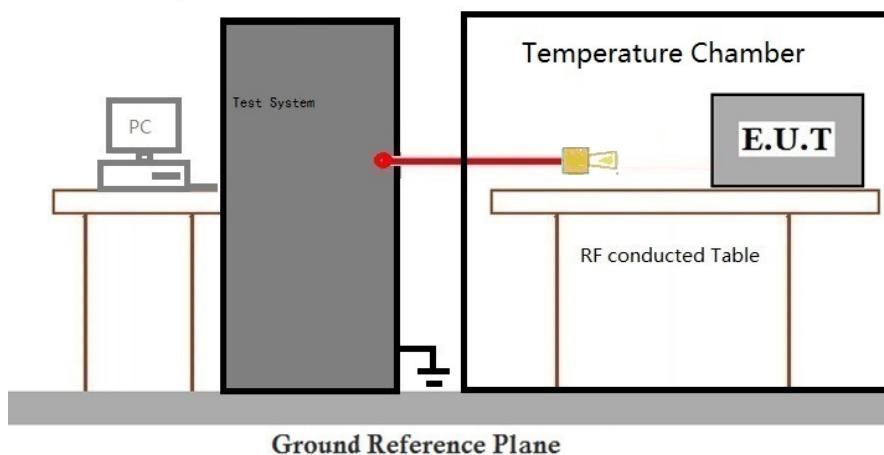
7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.4 °C Humidity: 47.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

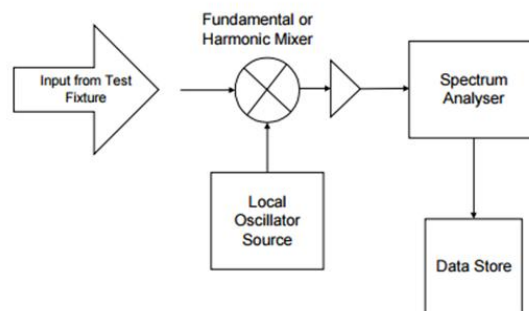
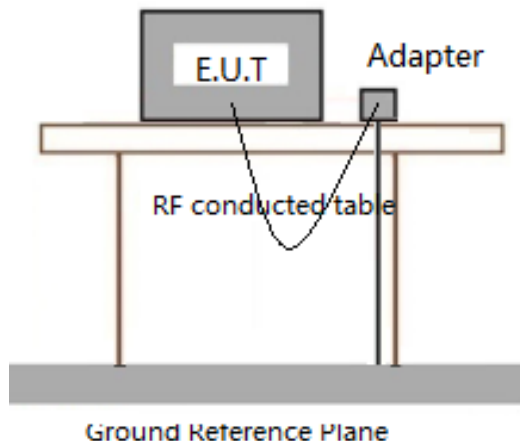
Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Continuous Tx Mode: Keep the EUT Transmitting with Modulation
Final test	18	Charge + Continuous Tx Mode: Keep the EUT in charge and Transmitting with Modulation

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

1. Temperature conditions:

- The RF output port of the EUT was connected to Frequency Meter;
- Set the working Frequency in the middle channel;
- record the 20°C and nominal voltage frequency value as reference point;
- vary the temperature from 0°C to 40°C with step 10°C
- when reach a temperature point, keep the temperature balance at least 1 hour to make the product working in this status;
- read the frequency at the relative temperature.

2. Voltage conditions:

- record the 20°C and nominal voltage frequency value as reference point;
 - vary the voltage from -15% nominal voltage to +15% voltage;
- read the frequency at the relative voltage.

Remark: Manufacturer declared that the minimum temperature for normal operation of this product is 0°C.

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2608000491AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2608000491AT



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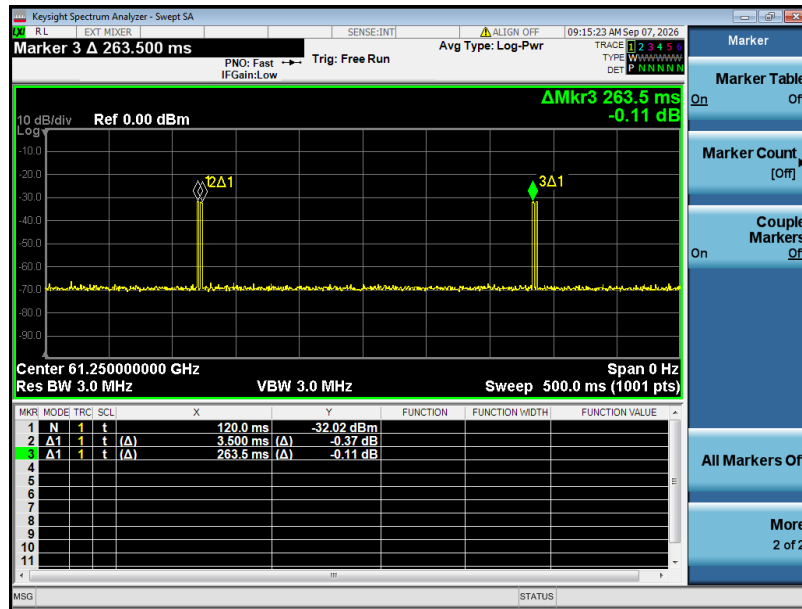
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10 Appendix

1. Duty Cycle

Transmitter off-times (ms)



Frequency (GHz)	Transmitter off-times (ms)	Interval Period (ms)	Limit (ms)	Result
61.25	29.5	33	≥25.5	Pass

Note 1: Off-times = 33ms – On-times

2: On-times = 3.5ms

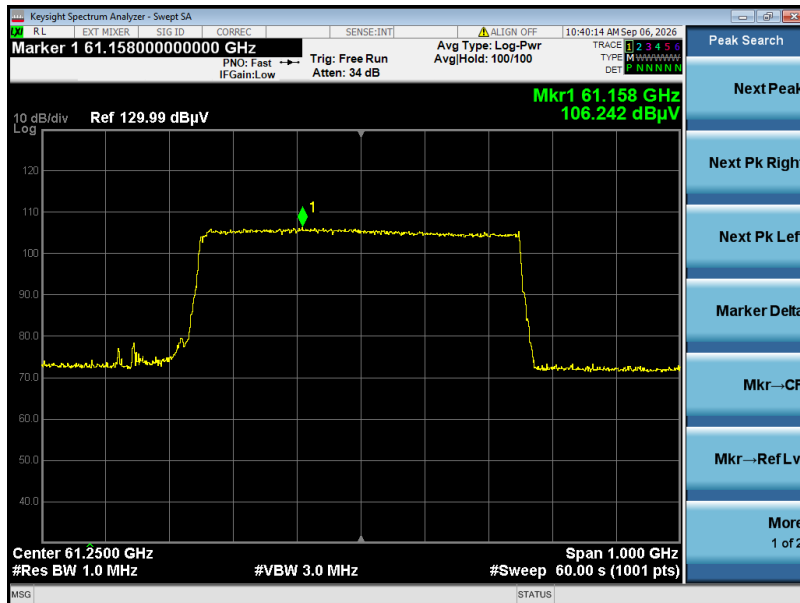


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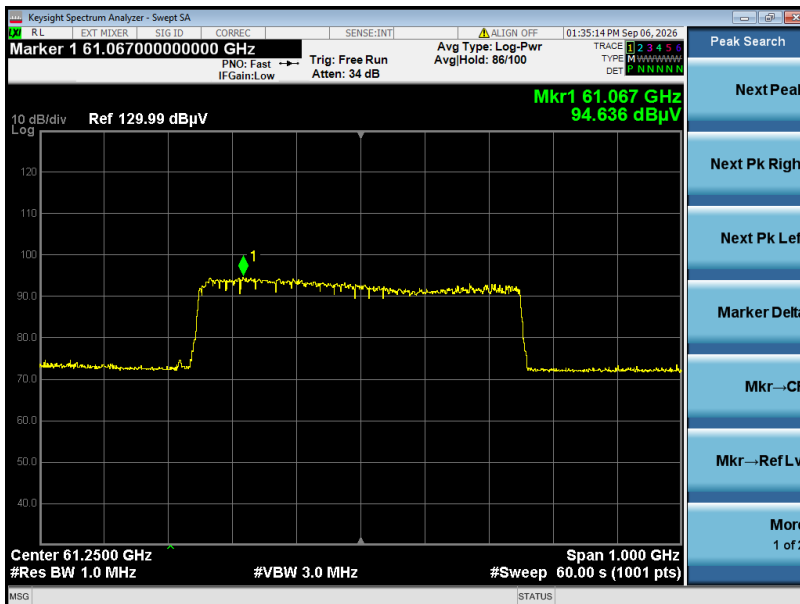
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2. Transmitter power and Transmitter off-times

Peak Power- Horizontal



Peak Power- Vertical



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Frequency (GHz)	Distance (m)	Polarity	dBuV/m @1m	Desensitization factor (dB)	E.I.R.P. Power (dBm)	E.I.R.P Limit (dBm)	Remark	Result
61.158	1	Horizontal	106.242	5.79	7.262	14	peak	Pass
61.067	1	Vertical	94.636	5.79	-4.344	14	peak	Pass

Remark:

1. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and d = distance at which field strength limit is specified in the rules
2. $\text{EIRP}[\text{dBm}] = E[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{meters}]) - 104.77$
3. Final $\text{EIRP}[\text{dBm}] = \text{Measured EIRP}[\text{dBm}] + \text{Desensitization Factor}[\text{dB}]$
4. The FMCW desensitization factor $= -10 \cdot \log(a) = -10 \cdot \log(0.263) = 5.79\text{dB}$

FMCW Width(MHz)	T _{chirp} (us)	RBW(MHz)	Desensitization Factor(lin)	Desensitization Factor(dB)
497.79	60	1	0.263	5.79

$$\alpha = \frac{1}{\left(1 + \left[\left(\frac{2 \times \ln(2)}{\pi}\right)^2 \times \left(\frac{BW_{\text{Chirp}}}{T_{\text{Chirp}} \times RBW^2}\right)^2\right]\right)^{0.25}}$$

where

- α is the reduction in amplitude
 BW_{Chirp} is the FMCW Chirp Bandwidth
 T_{Chirp} is the FMCW Chirp Time
 B is the 3 dB IF Bandwidth = RBW



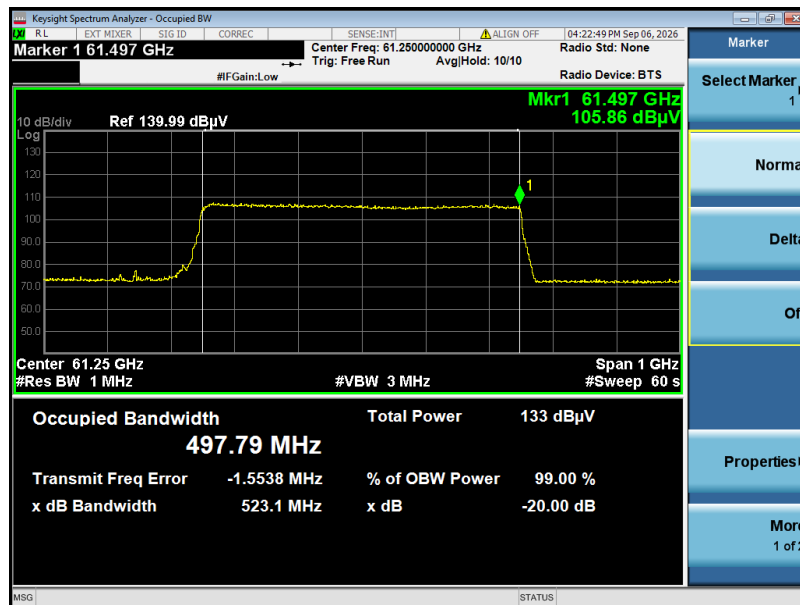
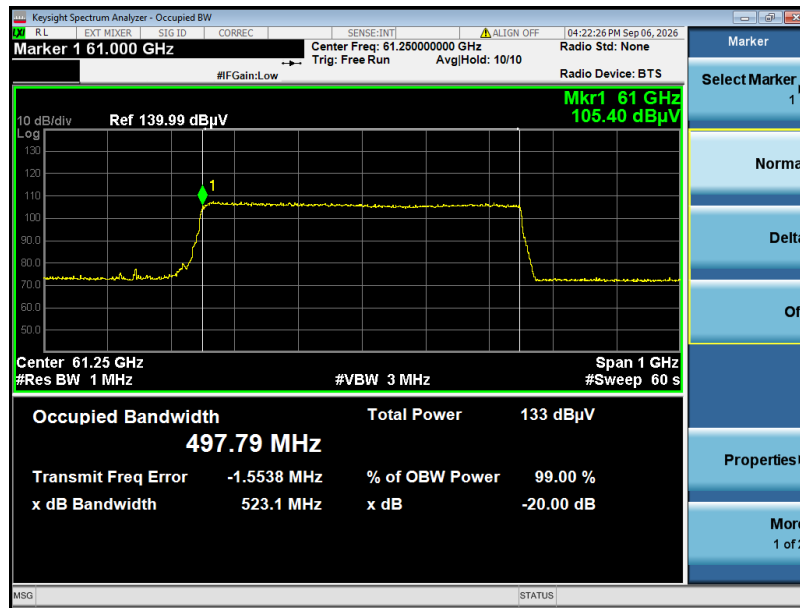
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3. Occupied bandwidth

99% Occupied Channel Bandwidth



Frequency Range (GHz)	99% OCW (GHz)	F _L (GHz)	Limit (GHz)	F _H (GHz)	Limit (GHz)	Result
57-64	0.49779	61.00	≥57	61.497	≤64	Pass

Remark: F_L: Frequency Low Band Edge, F_H: Frequency High Band Edge



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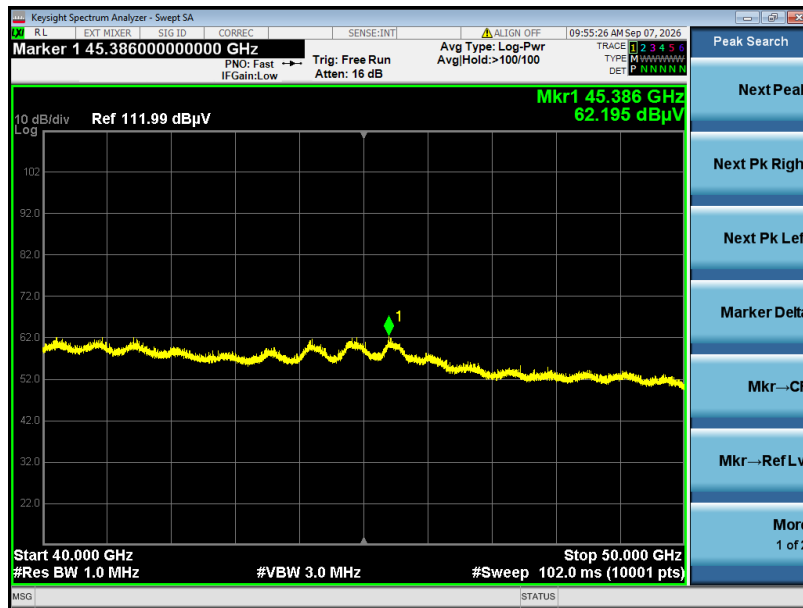
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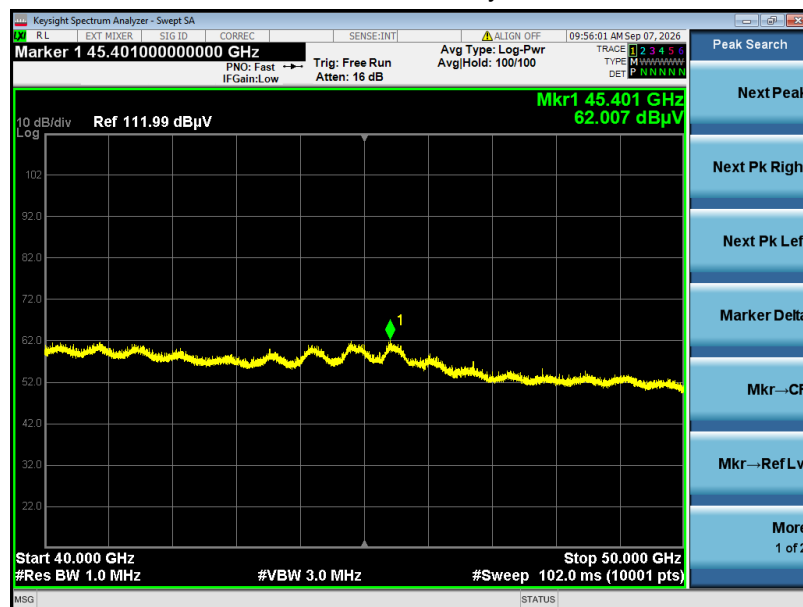
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4. Radiated emissions outside assigned band and above 40 GHz up to 200 GHz

Test Mode: 18; Polarity: Horizontal



Test Mode: 18; Polarity: Vertical



Frequency (GHz)	Distance (M)	PK Value (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Polarization	Result
45.386	1	62.195	114.85	94.85	H	PASS
45.401	1	62.007	114.85	94.85	V	PASS



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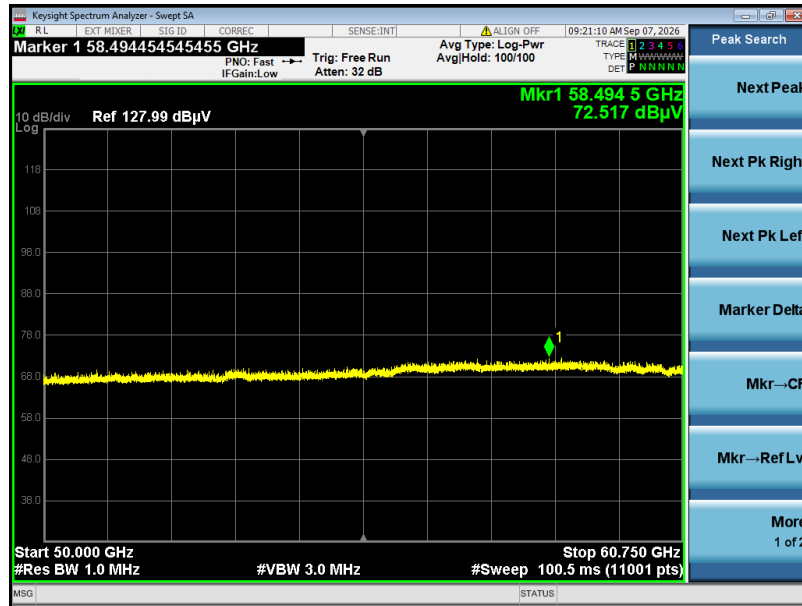
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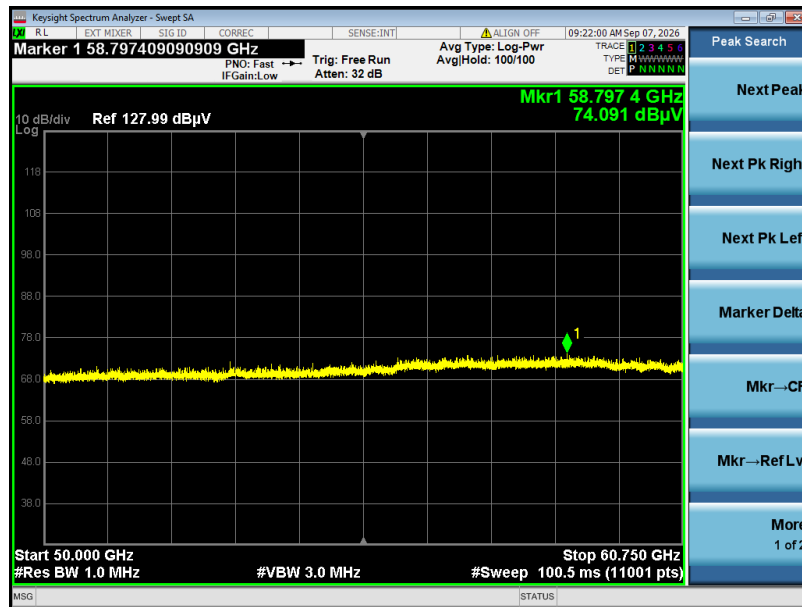
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Test Mode: 18; Polarity: Horizontal



Test Mode: 18; Polarity: Vertical



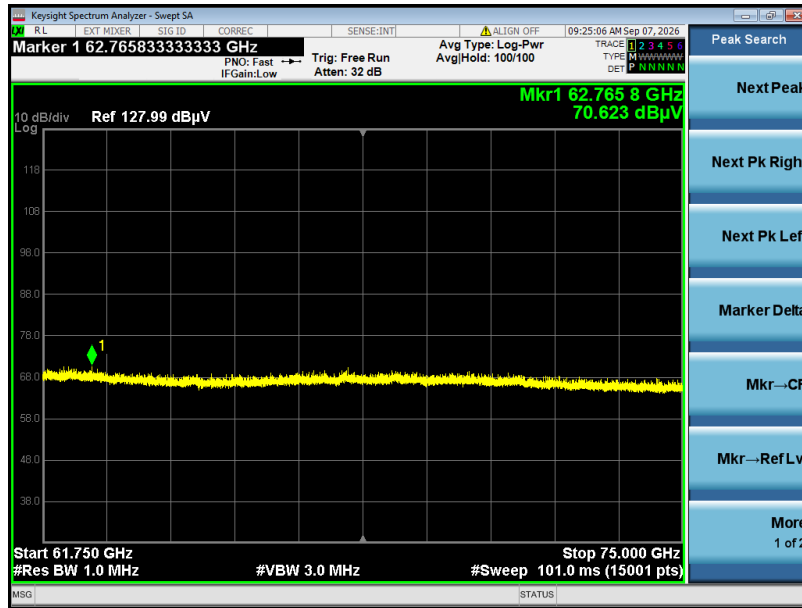
Frequency (GHz)	Distance (M)	PK Value (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Polarization	Result
58.495	1	72.517	114.85	94.85	H	PASS
58.797	1	74.091	114.85	94.85	V	PASS



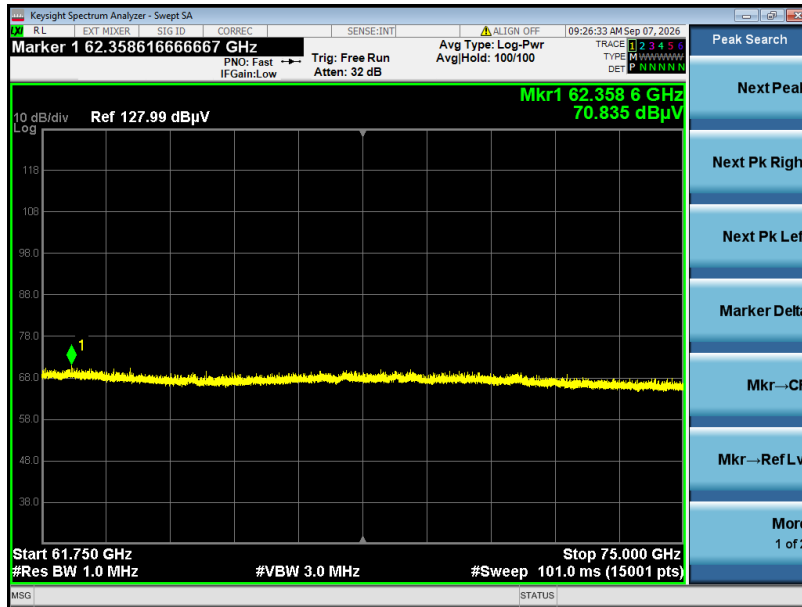
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Test Mode: 18; Polarity: Horizontal



Test Mode: 18; Polarity: Vertical



Frequency (GHz)	Distance (M)	PK Value (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Polarization	Result
62.766	1	70.623	114.85	94.85	H	PASS
62.359	1	70.835	114.85	94.85	V	PASS



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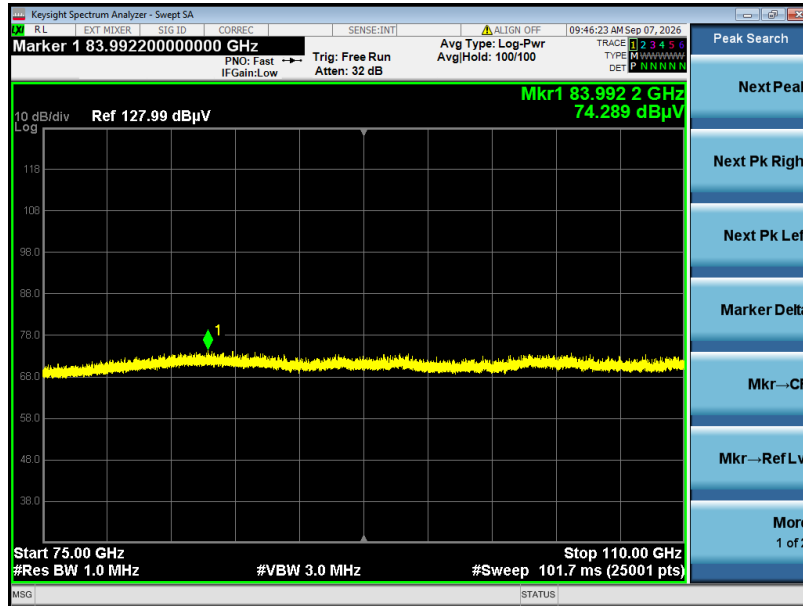
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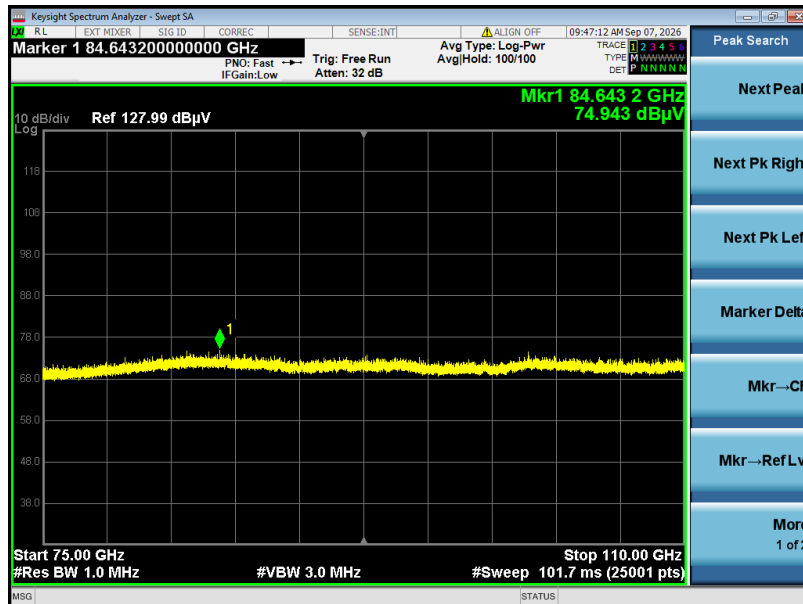
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Test Mode: 18; Polarity: Horizontal



Test Mode: 18; Polarity: Vertical



Frequency (GHz)	Distance (M)	PK Value (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Polarization	Result
83.992	1	74.289	114.85	94.85	H	PASS
84.643	1	74.943	114.85	94.85	V	PASS



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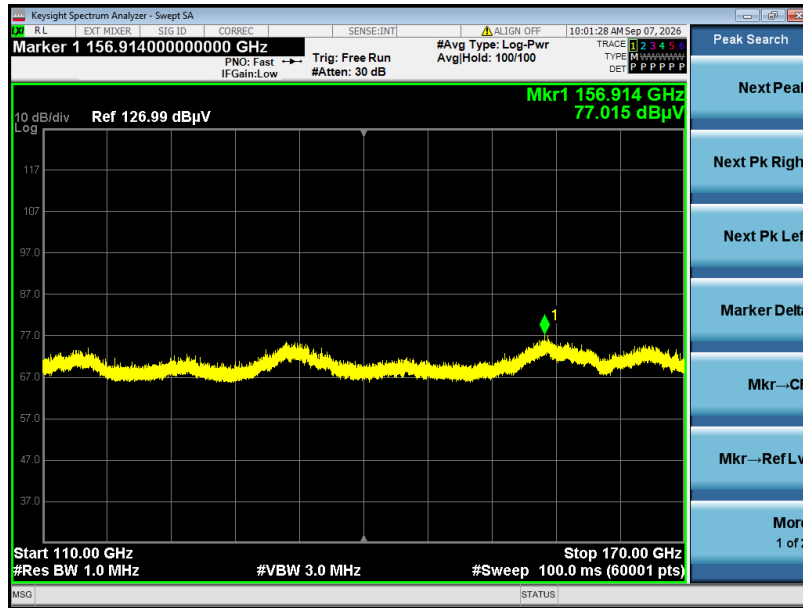
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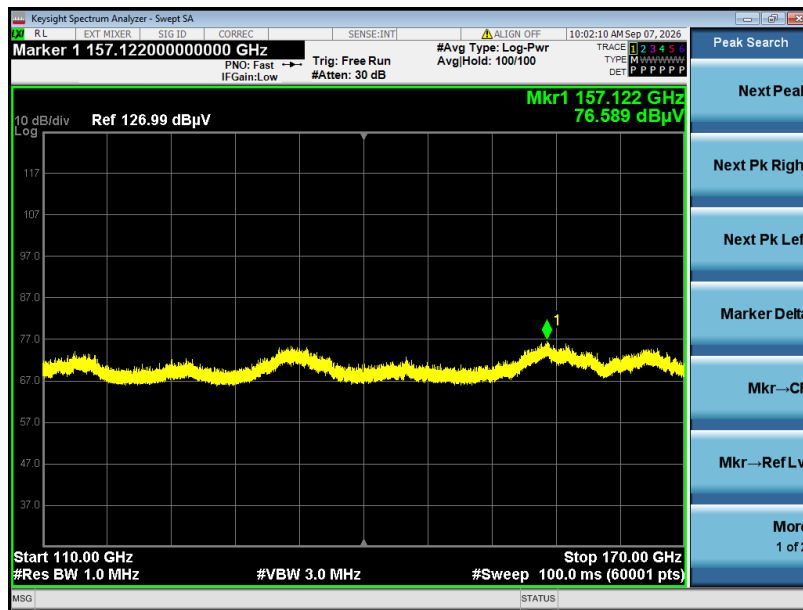
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Test Mode: 18; Polarity: Horizontal



Test Mode: 18; Polarity: Vertical



Frequency (GHz)	Distance (M)	PK Value (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Polarization	Result
156.914	1	77.015	114.85	94.85	H	PASS
157.122	1	76.589	114.85	94.85	V	PASS



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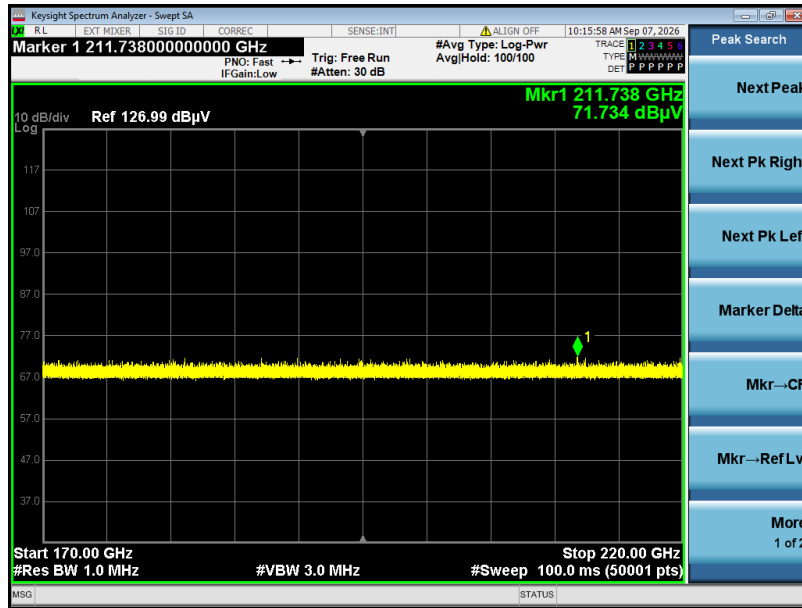
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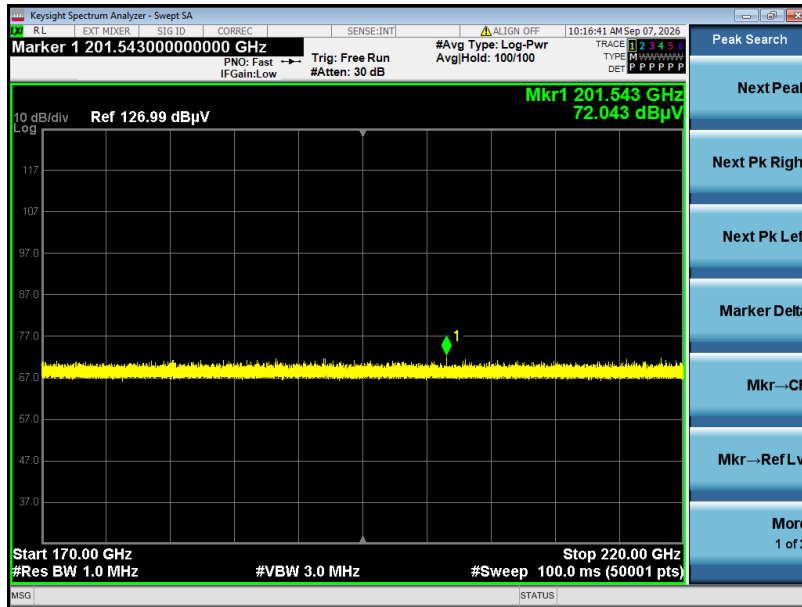
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Test Mode: 18; Polarity: Horizontal



Test Mode: 18; Polarity: Vertical



Frequency (GHz)	Distance (M)	PK Value (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Polarization	Result
211.738	1	71.734	114.85	94.85	H	PASS
201.543	1	72.043	114.85	94.85	V	PASS



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5. Frequency stability

Frequency Stability vs temperature:

1. Test for 57GHz to 64GHz

Frequency (GHz)	Temperature (°C)	Voltage (V DC)	F _L (GHz)	Limit (GHz)	F _H (GHz)	Limit (GHz)	Result
57-64	40	3.87	61.027	57	61.490	64	Pass
	30	3.87	61.030	57	61.474	64	Pass
	20	3.87	61.000	57	61.497	64	Pass
	10	3.87	61.004	57	61.473	64	Pass
	0	3.87	61.002	57	61.497	64	Pass

Frequency Stability vs voltage:

1. Test for 57GHz to 64GHz

Frequency (GHz)	Voltage (V DC)	Temperature (°C)	F _L (GHz)	Limit (GHz)	F _H (GHz)	Limit (GHz)	Result
57-64	4.45	20	61.014	57	61.496	64	Pass
	3.87	20	61.000	57	61.497	64	Pass
	3.29	20	61.008	57	61.494	64	Pass

Remark:

F_L: Frequency Low Band Edge, F_H: Frequency High Band Edge

- End of the Report -



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