

TEST REPORT

Report No.: 8234EU012105W5

Applicant: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address: Bld.2, Yingfeng Industrial Zone, Tantou Community,
Songgang Street, Bao'an, Shenzhen, China

Product Name: Android Tablet

Model No.: WF3285T (refer to clause 2.4)

Trademark: N/A

FCC ID: 2ABC5-E0073

Test Standard(s): 47 CFR Part 15 Subpart C

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ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



Prepared by:



Mikey Zhu/ Engineer

Reviewed and Approved by:



Sally Zhang/ Manager

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2 General Information

2.1 Applicant Information

Applicant	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Address	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Address	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, China

2.3 Factory Information

Factory	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Address	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, China

2.4 General Description of E.U.T.

Product Name	Android Tablet
Model No. Under Test	WF3285T
List Model No.	FA3285T
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance materials, colors and model name. (this information provided by the customer)
Rating(s)	Adapter power supply: 12.0V $\overline{\text{---}}$ 5.0A (Adapter input: 100-240V~, 50/60Hz, 1.5A; Output: 12.0V $\overline{\text{---}}$ 5.0A 60.0W)
Adapter 1	Model No.: FJ-SW729C1205000U Input: 100-240V~ 50/60Hz 1.5A Max Output: 12.0V $\overline{\text{---}}$ 5.0A, 60.0W Manufacturer: HUIZHOU FUJIA APPLIANCE TECH. CO., LTD.
Adapter 2	Model No.: S065-1A120500B3 Input: 100-240V~ 50/60Hz 1.5A Output: 12.0V $\overline{\text{---}}$ 5.0A, 60.0W Manufacturer: Mass Power Electronic Limited
Product Type	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	R136-V1.1
Software Version	N/A
Remark	1) The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Bluetooth (BDR+EDR+BLE) WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20), 802.11ax(HEW20) WiFi 5G: 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) and 802.11ax(HE20/40/80) U-NII-1/3, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Technology	NFC
Operating Frequency	13.56MHz
Modulation Type	ASK
Antenna Type	Inductive Loop Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	Antenna Requirement	15.203	Pass	Note ¹
2	Conducted Emission at AC Power Line	15.207	Pass	--
3	Emissions Bandwidth	15.215	Pass	--
4	Field Strength of Fundamental Emissions	15.225(a)(b)(c)	Pass	--
5	Radiated Emissions	15.225(d) / 15.209	Pass	--
6	Frequency Stability	15.225(e)	Pass	--

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	120V, 60Hz for adapter

4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	EE-004	2024/01/09	2025/01/08
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2024/01/09	2025/01/08
Test Software	Farad	EZ-EMC	EE-014	N.C.R	N.C.R

Radiated Emission and RF Test					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2024/01/09	2025/01/08
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023/01/14	2026/01/13
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023/01/12	2026/01/11
Pre-amplifier	Agilent	8447D	EE-009	2024/01/09	2025/01/08
Pre-amplifier	Agilent	8449B	EE-010	2024/01/09	2025/01/08
MXA Signal Analyzer	Agilent	N9020A	EE-011	2024/01/09	2025/01/08
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2024/01/09	2025/01/08
Test Software	Farad	EZ-EMC	EE-015	N.C.R	N.C.R
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2024/05/16	2025/05/15
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	N.C.R	N.C.R
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2024/02/15	2025/02/14
Loop Antenna	TESEQ	HLA6121	EE-403	2024/02/15	2025/02/14
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2024/02/15	2025/02/14
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2024/07/30	2025/07/29

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Adapter	See section 2.4	N/A	N/A

4.4 Test Mode

No.	Test Modes	Description
TM1	TX-13.56M-ASK	Keep the EUT connect to AC power line and works in continuously 13.56 MHz transmitting in ASK modulation mode.

4.5 Description of Calculation

4.5.1. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

4.5.2. Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test Item	Measurement Uncertainty
Conducted Emission	2.64 dB
Occupied Channel Bandwidth	2.8 %
RF output power, conducted	0.68 dB
Power Spectral Density, conducted	1.37 dB
Unwanted Emissions, conducted	1.84 dB
Radiated Emission (9kHz- 30MHz)	Ur = 2.50 dB
Radiated Emission (30MHz- 1GHz)	Ur = 2.70 dB (Horizontal)
	Ur = 2.70 dB (Vertical)
Radiated Emission (1GHz- 18GHz)	Ur = 3.50 dB (Horizontal)
	Ur = 3.50 dB (Vertical)
Radiated Emission (18GHz- 40GHz)	Ur = 5.15 dB (Horizontal)
	Ur = 5.24 dB (Vertical)
Temperature	0.8°C
Humidity	4%

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Condition

None.

5 Test Items

5.1 Antenna requirement

5.1.1 Test Requirement

Test Requirement	<p>According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> <p>If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.</p>
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5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	The EUT has a permanently and irreplaceable inductive loop antenna.

5.1.3 Antenna Gain

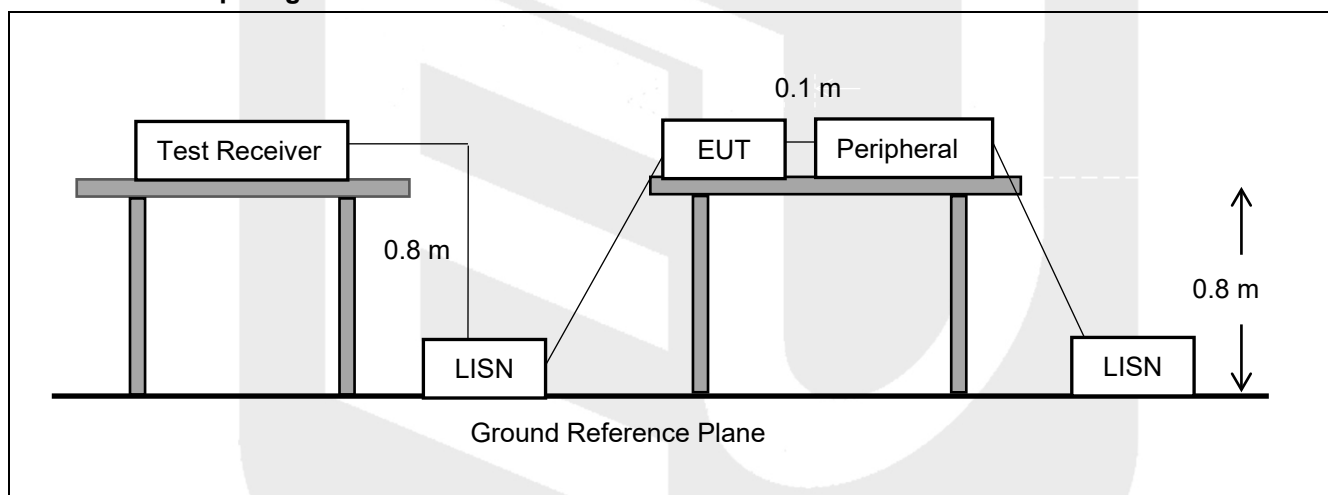
The antenna peak gain of EUT is less than 6 dBi.

5.2 Conducted Emission at AC Power Line

5.2.1 Test Requirement

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test 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.		
Test Method	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices.		

5.2.2 Test Setup Diagram



5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

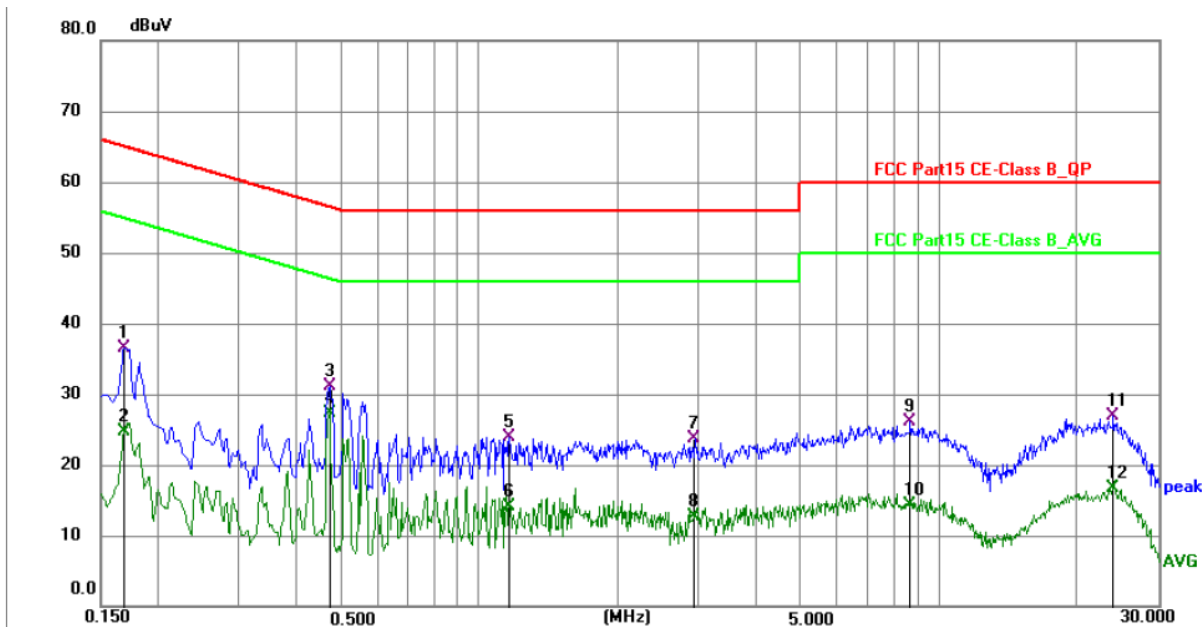
5.2.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Live Line
 Model No.: WF3285T
 Adapter Model No.: FJ-SW729C1205000U



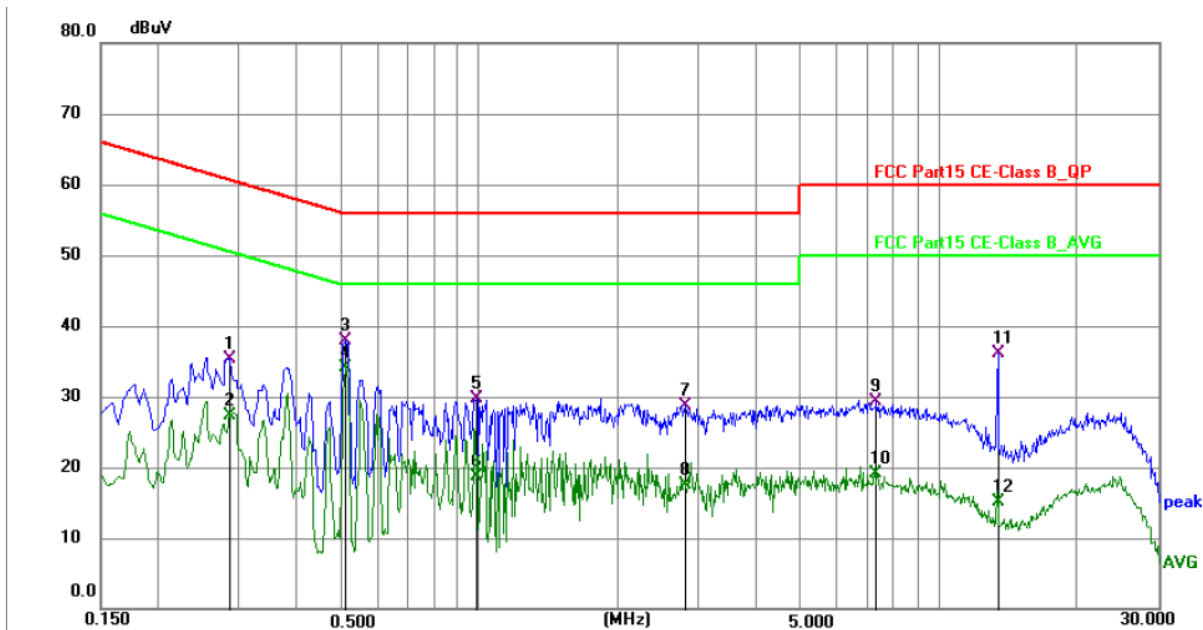
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	26.60	9.96	36.56	65.06	-28.50	QP	P	
2	0.1680	14.71	9.96	24.67	55.06	-30.39	AVG	P	
3	0.4695	21.08	10.04	31.12	56.52	-25.40	QP	P	
4 *	0.4695	17.35	10.04	27.39	46.52	-19.13	AVG	P	
5	1.1625	13.81	10.04	23.85	56.00	-32.15	QP	P	
6	1.1625	4.03	10.04	14.07	46.00	-31.93	AVG	P	
7	2.9534	13.56	10.06	23.62	56.00	-32.38	QP	P	
8	2.9534	2.74	10.06	12.80	46.00	-33.20	AVG	P	
9	8.6820	16.19	9.99	26.18	60.00	-33.82	QP	P	
10	8.6820	4.28	9.99	14.27	50.00	-35.73	AVG	P	
11	23.9955	16.80	10.16	26.96	60.00	-33.04	QP	P	
12	23.9955	6.58	10.16	16.74	50.00	-33.26	AVG	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Neutral Line
 Model No.: WF3285T
 Adapter Model No.: FJ-SW729C1205000U

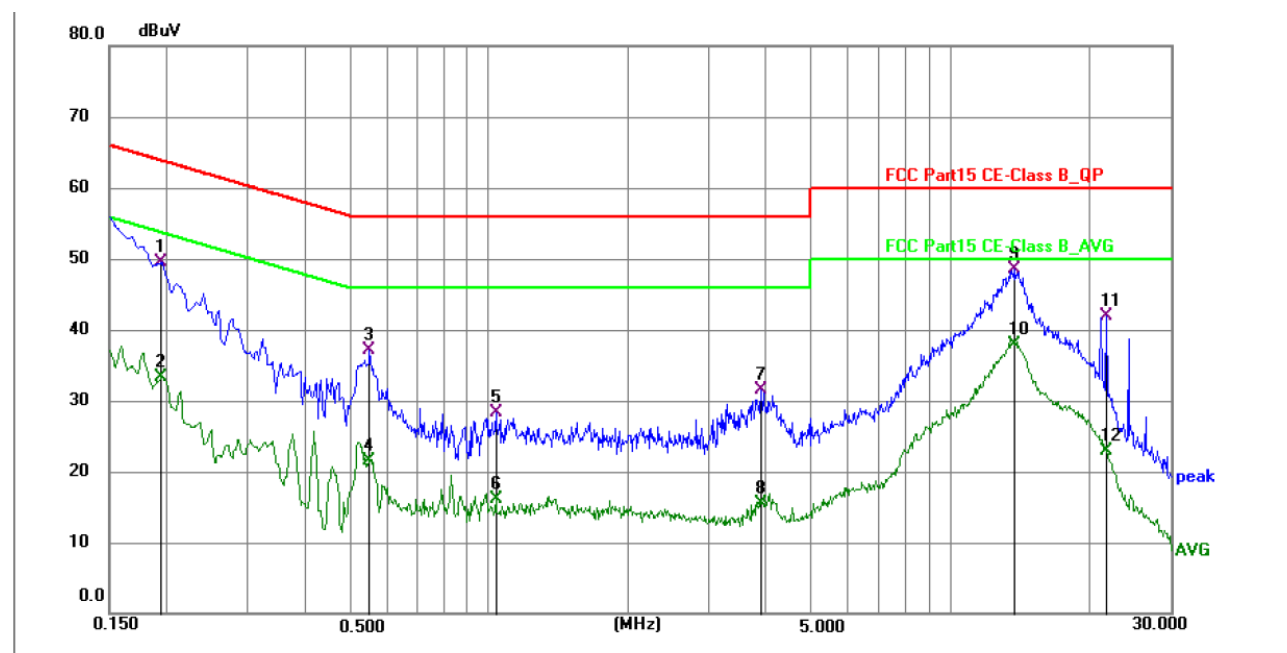


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2850	25.34	10.01	35.35	60.67	-25.32	QP	P	
2	0.2850	17.25	10.01	27.26	50.67	-23.41	AVG	P	
3	0.5100	27.80	10.07	37.87	56.00	-18.13	QP	P	
4 *	0.5100	24.13	10.07	34.20	46.00	-11.80	AVG	P	
5	0.9870	19.58	10.06	29.64	56.00	-26.36	QP	P	
6	0.9870	8.63	10.06	18.69	46.00	-27.31	AVG	P	
7	2.8230	18.72	10.05	28.77	56.00	-27.23	QP	P	
8	2.8230	7.49	10.05	17.54	46.00	-28.46	AVG	P	
9	7.3050	19.29	10.03	29.32	60.00	-30.68	QP	P	
10	7.3050	8.98	10.03	19.01	50.00	-30.99	AVG	P	
11	13.4250	26.03	10.00	36.03	60.00	-23.97	QP	P	
12	13.4250	5.04	10.00	15.04	50.00	-34.96	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Live Line
 Model No.: WF3285T
 Adapter Model No.: S065-1A120500B3



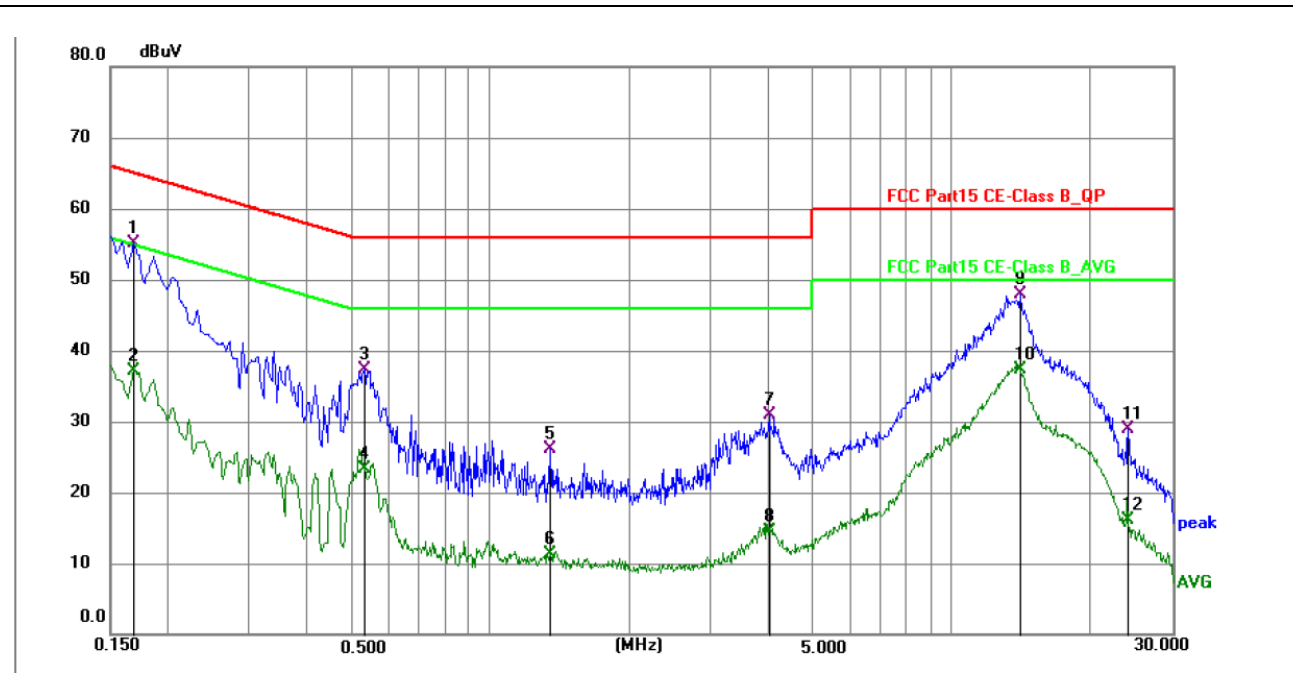
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	39.46	9.97	49.43	63.83	-14.40	QP	P	
2	0.1949	23.38	9.97	33.35	53.83	-20.48	AVG	P	
3	0.5505	27.15	10.04	37.19	56.00	-18.81	QP	P	
4	0.5505	11.50	10.04	21.54	46.00	-24.46	AVG	P	
5	1.0320	18.28	10.04	28.32	56.00	-27.68	QP	P	
6	1.0320	6.12	10.04	16.16	46.00	-29.84	AVG	P	
7	3.8850	21.43	10.05	31.48	56.00	-24.52	QP	P	
8	3.8850	5.47	10.05	15.52	46.00	-30.48	AVG	P	
9 *	13.8165	38.54	9.97	48.51	60.00	-11.49	QP	P	
10	13.8165	28.00	9.97	37.97	50.00	-12.03	AVG	P	
11	21.7635	31.83	10.11	41.94	60.00	-18.06	QP	P	
12	21.7635	12.86	10.11	22.97	50.00	-27.03	AVG	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Neutral Line
 Model No.: WF3285T
 Adapter Model No.: S065-1A120500B3

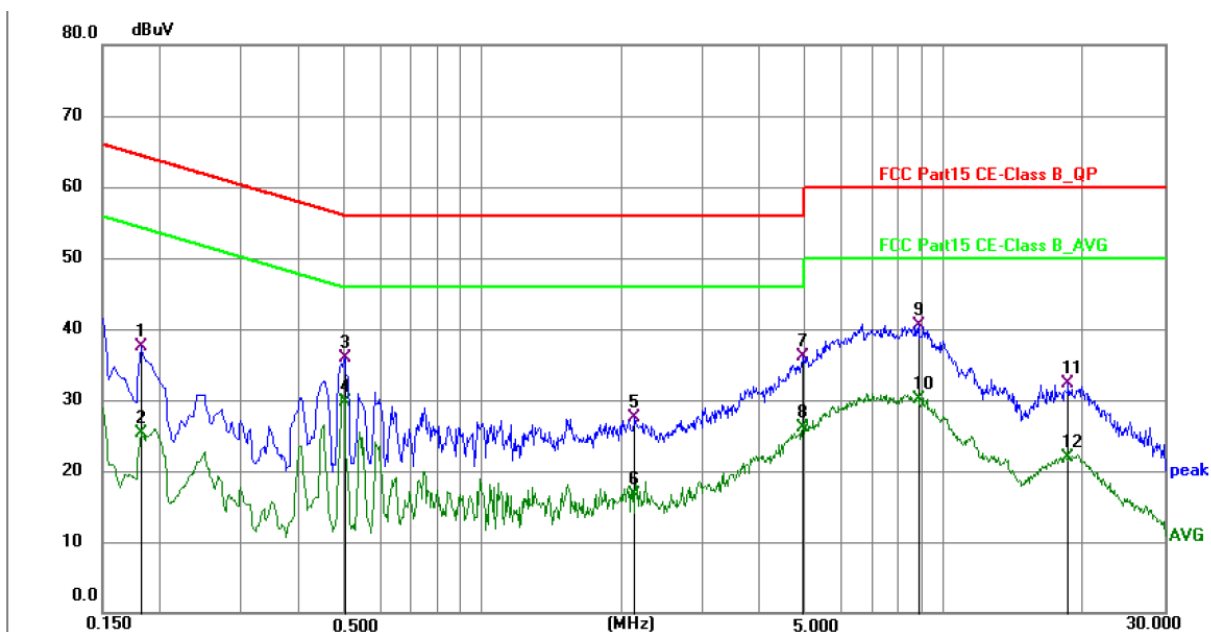


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1680	45.08	9.98	55.06	65.06	-10.00	QP	P	
2	0.1680	27.18	9.98	37.16	55.06	-17.90	AVG	P	
3	0.5325	27.27	10.07	37.34	56.00	-18.66	QP	P	
4	0.5325	13.23	10.07	23.30	46.00	-22.70	AVG	P	
5	1.3515	16.01	10.06	26.07	56.00	-29.93	QP	P	
6	1.3515	1.26	10.06	11.32	46.00	-34.68	AVG	P	
7	4.0245	20.78	10.05	30.83	56.00	-25.17	QP	P	
8	4.0245	4.42	10.05	14.47	46.00	-31.53	AVG	P	
9	13.9920	37.82	9.99	47.81	60.00	-12.19	QP	P	
10	13.9920	27.38	9.99	37.37	50.00	-12.63	AVG	P	
11	24.1170	18.72	10.15	28.87	60.00	-31.13	QP	P	
12	24.1170	5.99	10.15	16.14	50.00	-33.86	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1/ CH Middle
 Comments: Live Line
 Model No.: FA3285T



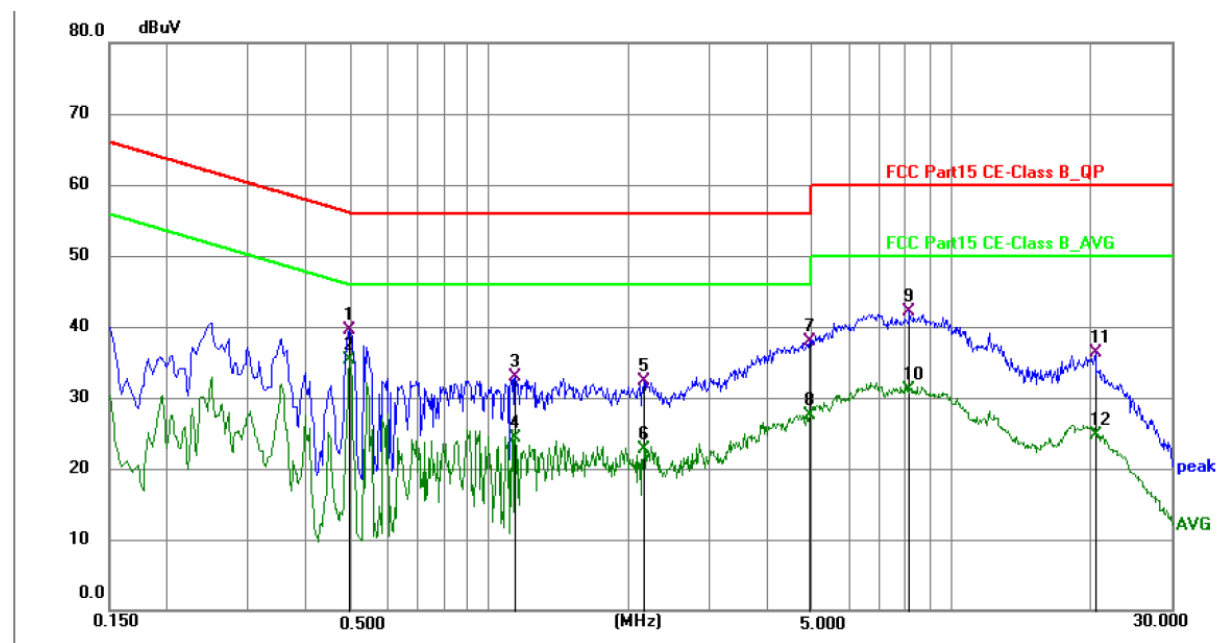
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1814	27.53	9.96	37.49	64.42	-26.93	QP	P	
2	0.1814	15.37	9.96	25.33	54.42	-29.09	AVG	P	
3	0.5010	25.89	10.04	35.93	56.00	-20.07	QP	P	
4 *	0.5010	19.64	10.04	29.68	46.00	-16.32	AVG	P	
5	2.1433	17.38	10.03	27.41	56.00	-28.59	QP	P	
6	2.1433	6.63	10.03	16.66	46.00	-29.34	AVG	P	
7	4.9470	26.09	10.04	36.13	56.00	-19.87	QP	P	
8	4.9470	16.16	10.04	26.20	46.00	-19.80	AVG	P	
9	8.7900	30.52	9.97	40.49	60.00	-19.51	QP	P	
10	8.7900	20.04	9.97	30.01	50.00	-19.99	AVG	P	
11	18.6044	22.34	10.04	32.38	60.00	-27.62	QP	P	
12	18.6044	11.92	10.04	21.96	50.00	-28.04	AVG	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1/ CH Middle
 Comments: Neutral Line
 Model No.: FA3285T



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4964	29.44	10.07	39.51	56.06	-16.55	QP	P	
2 *	0.4964	25.16	10.07	35.23	46.06	-10.83	AVG	P	
3	1.1354	22.82	10.06	32.88	56.00	-23.12	QP	P	
4	1.1354	14.29	10.06	24.35	46.00	-21.65	AVG	P	
5	2.1660	22.26	10.07	32.33	56.00	-23.67	QP	P	
6	2.1660	12.71	10.07	22.78	46.00	-23.22	AVG	P	
7	4.9335	27.88	10.05	37.93	56.00	-18.07	QP	P	
8	4.9335	17.39	10.05	27.44	46.00	-18.56	AVG	P	
9	8.1105	31.99	10.02	42.01	60.00	-17.99	QP	P	
10	8.1105	21.13	10.02	31.15	50.00	-18.85	AVG	P	
11	20.5034	26.15	10.09	36.24	60.00	-23.76	QP	P	
12	20.5034	14.64	10.09	24.73	50.00	-25.27	AVG	P	

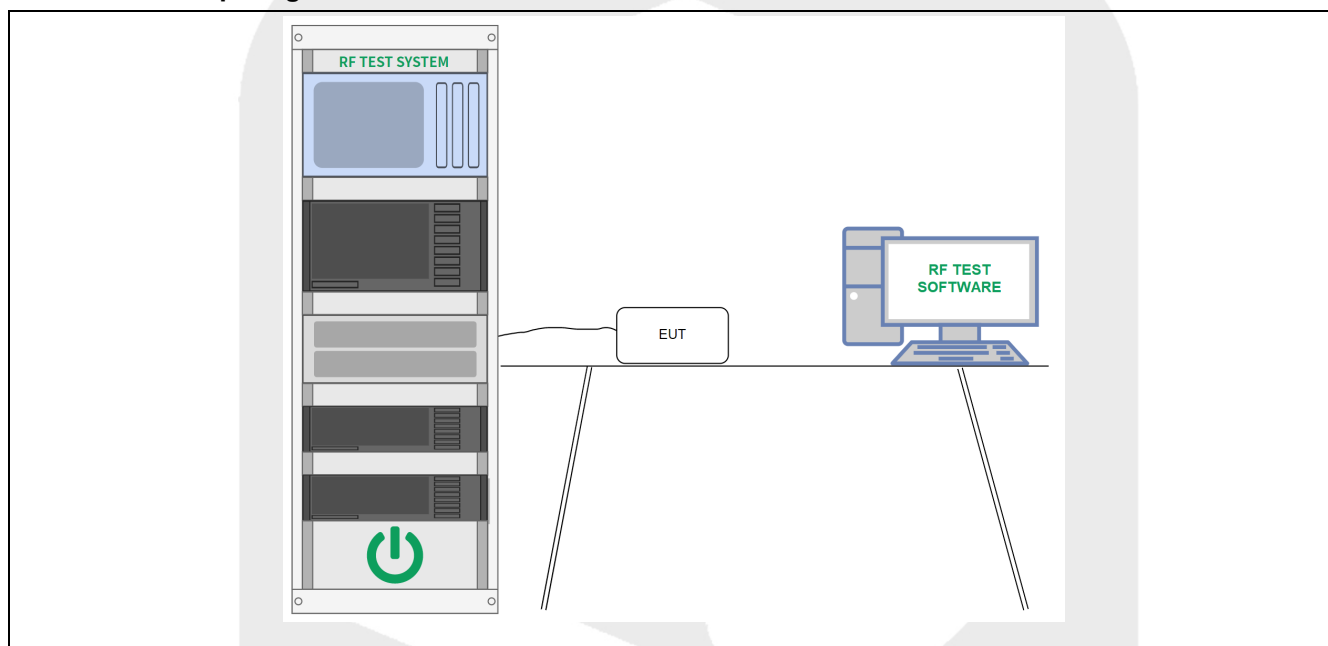
Note: Level = Reading + Factor Margin = Level - Limit

5.3 Emissions Bandwidth

5.3.1 Test Requirement

Test Requirement	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method	ANSI C63.10-2020, section 6.9.2 Occupied bandwidth—relative measurement procedure

5.3.2 Test Setup Diagram



5.3.3 Test Procedure

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to maxhold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

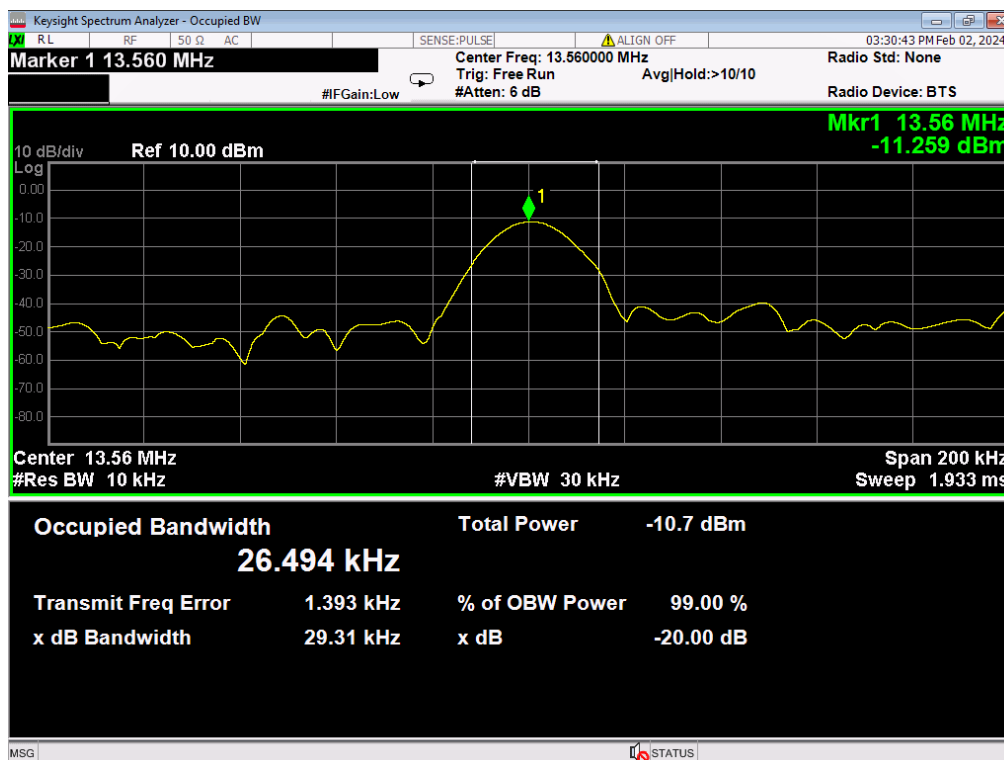
5.3.4 Test Data

PASS.

Please refer to the following pages.

Frequency (MHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
13.56	29.31	26.494	Pass

Test Plot



5.4 Field Strength of Fundamental Emissions and Radiated Emission

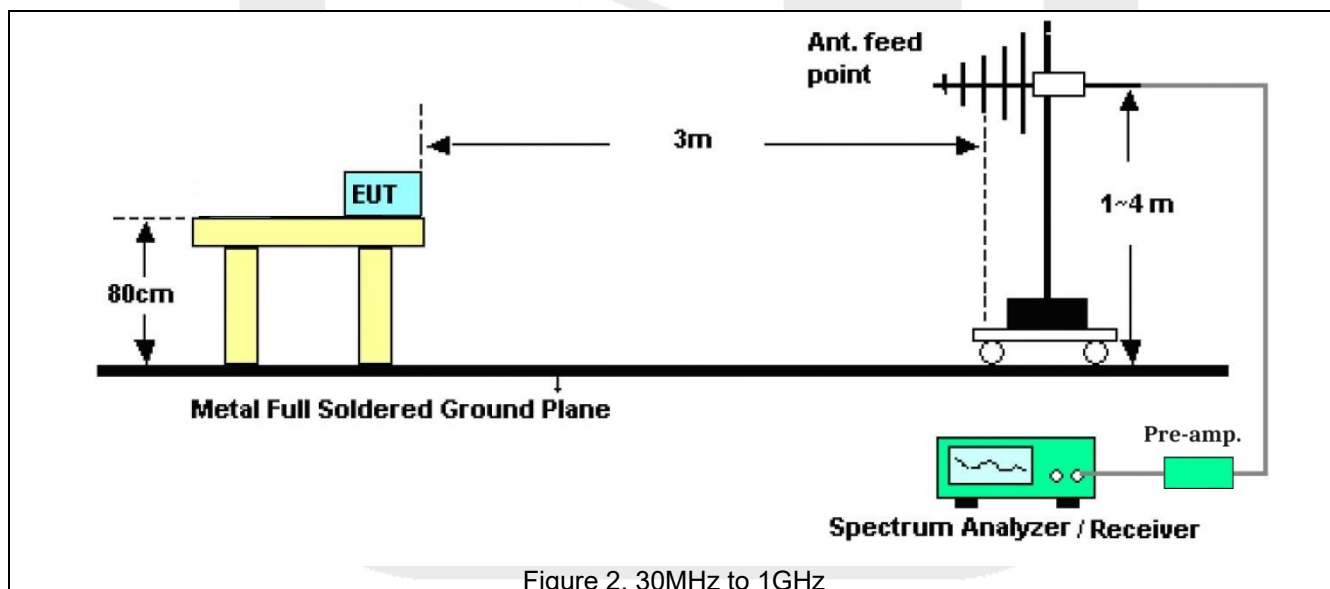
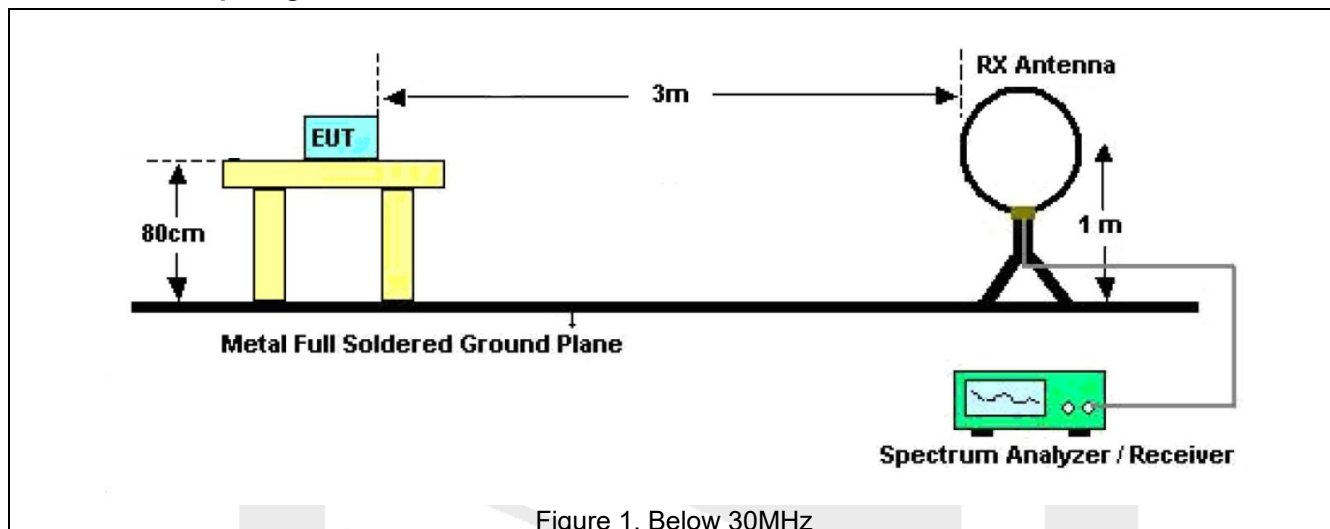
5.4.1 Test Requirement

Test Requirement	FCC §15.225; FCC §15.209																																					
Test Limit	<p>According to FCC section 15.225, for <30 MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 kHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)</p> <p>There was no detected Restricted bands and Radiated spurious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows;</p> <p>3 m Limit(dBµV/m) = 20log(X)+40log(30/3)= 20log(15848)+40log(30/3) = 124dBµV</p> <p>Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p>																																					
	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Field Strength@30m</th><th>Field Strength@3m</th></tr><tr><th>µV/m</th><th>dBµV/m</th><th>dBµV/m</th></tr><tr><td>Below 13.110</td><td>30</td><td>29.5</td><td>69.5</td></tr><tr><td>13.110 ~ 13.410</td><td>106</td><td>40.5</td><td>80.5</td></tr><tr><td>13.410 ~ 13.553</td><td>334</td><td>50.5</td><td>90.5</td></tr><tr><td>13.553 ~13.567</td><td>15848</td><td>84</td><td>124</td></tr><tr><td>13.567 ~ 13.710</td><td>334</td><td>50.5</td><td>90.5</td></tr><tr><td>13.710 ~14.010</td><td>106</td><td>40.5</td><td>80.5</td></tr><tr><td>Above 14.010</td><td>30</td><td>29.5</td><td>69.5</td></tr></table>			Frequency range (MHz)	Field Strength@30m		Field Strength@3m	µV/m	dBµV/m	dBµV/m	Below 13.110	30	29.5	69.5	13.110 ~ 13.410	106	40.5	80.5	13.410 ~ 13.553	334	50.5	90.5	13.553 ~13.567	15848	84	124	13.567 ~ 13.710	334	50.5	90.5	13.710 ~14.010	106	40.5	80.5	Above 14.010	30	29.5	69.5
	Frequency range (MHz)	Field Strength@30m			Field Strength@3m																																	
		µV/m	dBµV/m	dBµV/m																																		
	Below 13.110	30	29.5	69.5																																		
	13.110 ~ 13.410	106	40.5	80.5																																		
	13.410 ~ 13.553	334	50.5	90.5																																		
	13.553 ~13.567	15848	84	124																																		
	13.567 ~ 13.710	334	50.5	90.5																																		
	13.710 ~14.010	106	40.5	80.5																																		
	Above 14.010	30	29.5	69.5																																		
	NOTE:																																					
	1. Field Strength (dBµV/m) = 20*log[Field Strength (µV/m)].																																					
2. In the emission tables above, the tighter limit applies at the band edges.																																						
FCC §15.225(d)																																						
<p>According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p>																																						
<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			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												
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																																				
** 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.																																						
NOTE:																																						
1. Field Strength (dBµV/m) = 20*log[Field Strength (µV/m)].																																						
2. In the emission tables above, the tighter limit applies at the band edges.																																						

Test Method

ANSI C63.10-2020 section 6.6.4
Radiated emissions tests

5.4.2 Test Setup Diagram



5.4.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.4.4 Test Data

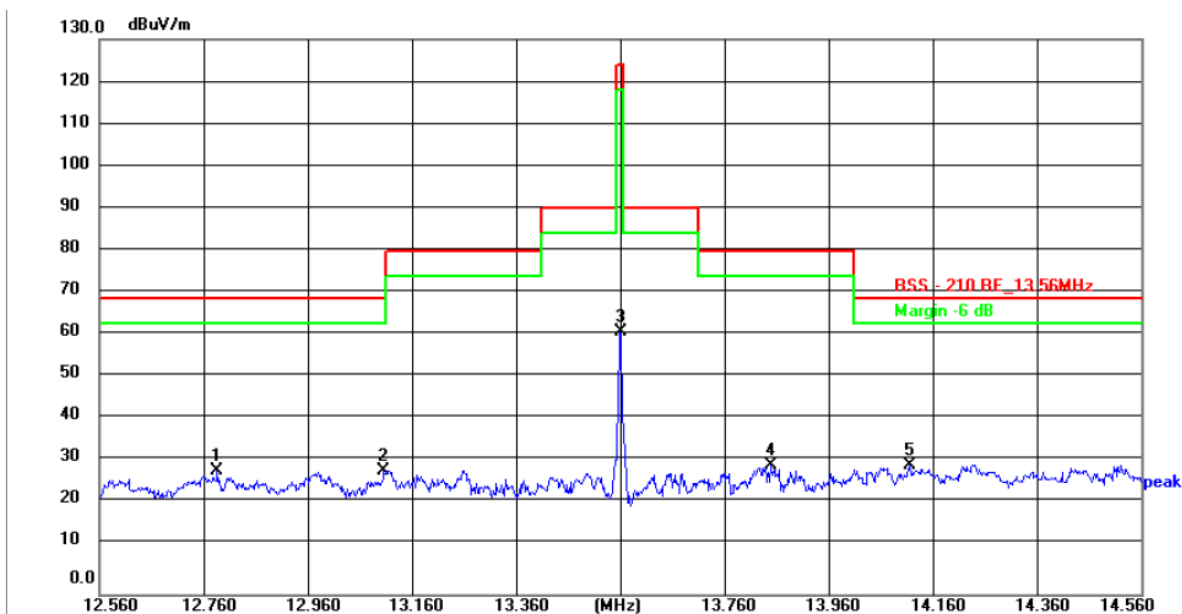
PASS.

During the test, pre-scan the all test, only the worst case is recorded in the report.

For RSE below 30MHz, all other test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Field Strength of Fundamental Emissions Test Data

Test item: 966 Chamber #1 **Polarization:** Coaxial
Distance: 3m **Test Mode:** TM1
Adapter Model No.: FJ-SW729C1205000U



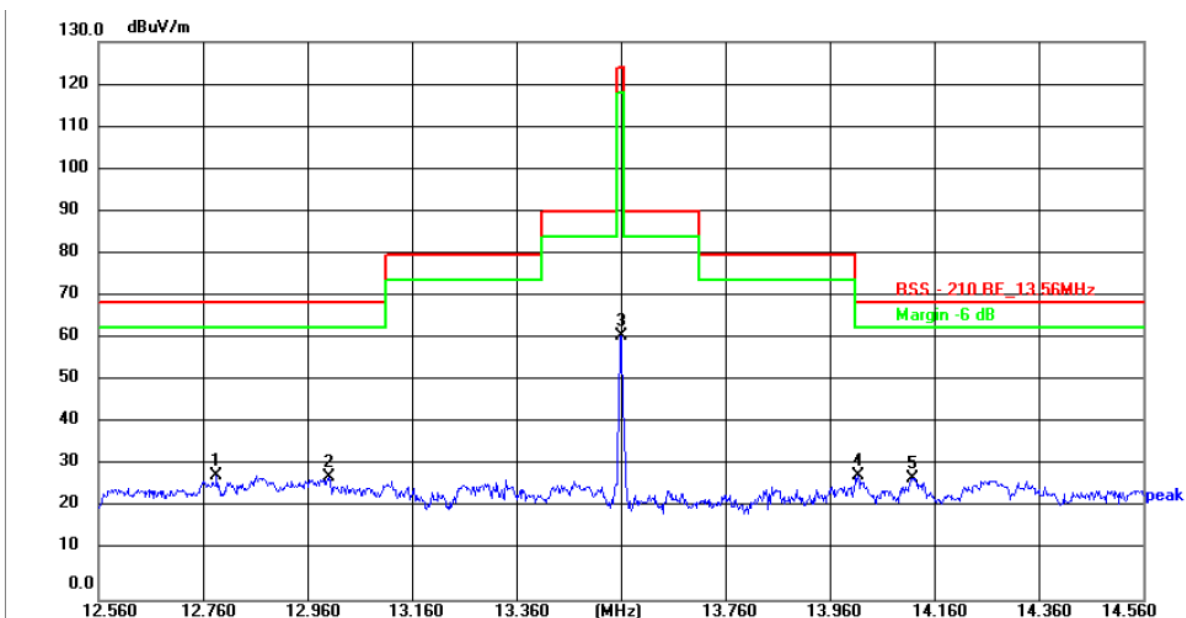
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	12.7860	57.13	-27.91	29.22	69.50	-40.28	peak	P	
2	13.1059	56.87	-27.91	28.96	69.50	-40.54	peak	P	
3	13.5620	89.60	-27.92	61.68	124.00	-62.32	peak	P	
4	13.8480	58.44	-27.92	30.52	80.50	-49.98	peak	P	
5 *	14.1160	58.40	-27.93	30.47	69.50	-39.03	peak	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Field Strength of Fundamental Emissions Test Data

Test item: 966 Chamber #1 **Polarization:** Coplanar
Distance: 3m **Test Mode:** TM1
Adapter Model No.: FJ-SW729C1205000U



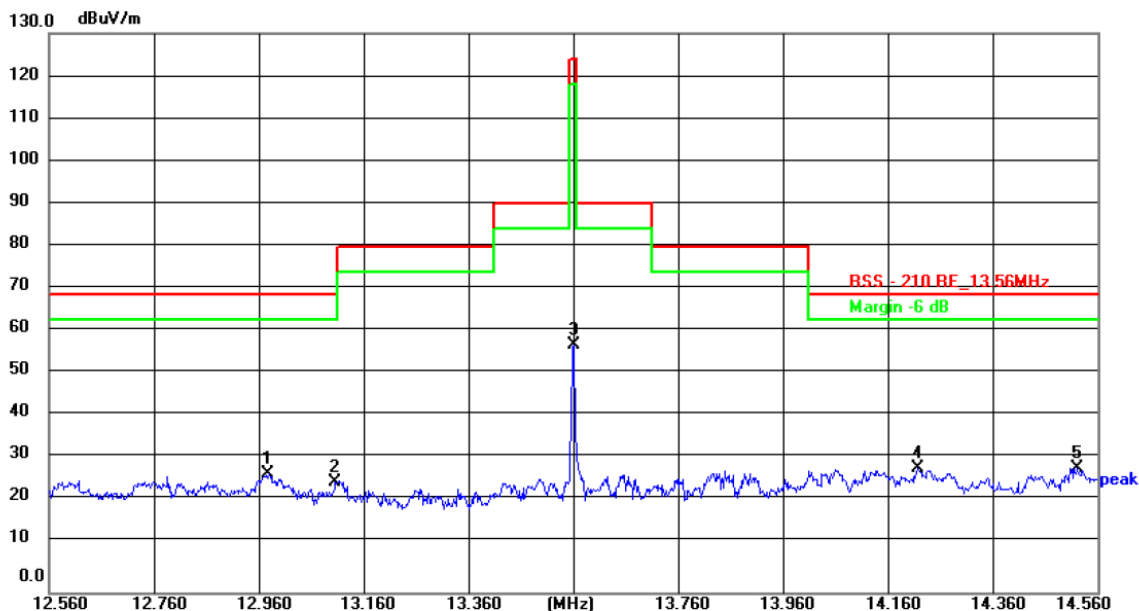
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	12.7860	57.13	-27.91	29.22	69.50	-40.28	peak	P	
2	13.0000	56.54	-27.91	28.63	69.50	-40.87	peak	P	
3	13.5620	89.60	-27.92	61.68	124.00	-62.32	peak	P	
4	14.0140	56.94	-27.93	29.01	69.50	-40.49	peak	P	
5	14.1180	56.49	-27.93	28.56	69.50	-40.94	peak	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Field Strength of Fundamental Emissions Test Data

Test item: 966 Chamber #1 **Polarization:** Coaxial
Distance: 3m **Test Mode:** TM1
Adapter Model No.: S065-1A120500B3



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	12.9799	55.80	-27.91	27.89	69.50	-41.61	peak	P	
2	13.1059	53.87	-27.91	25.96	69.50	-43.54	peak	P	
3	13.5620	85.60	-27.92	57.68	124.00	-66.32	peak	P	
4	14.2160	56.98	-27.93	29.05	69.50	-40.45	peak	P	
5 *	14.5220	57.16	-27.93	29.23	69.50	-40.27	peak	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Field Strength of Fundamental Emissions Test Data

Test item: 966 Chamber #1 **Polarization:** Coplanar
Distance: 3m **Test Mode:** TM1
Adapter Model No.: S065-1A120500B3



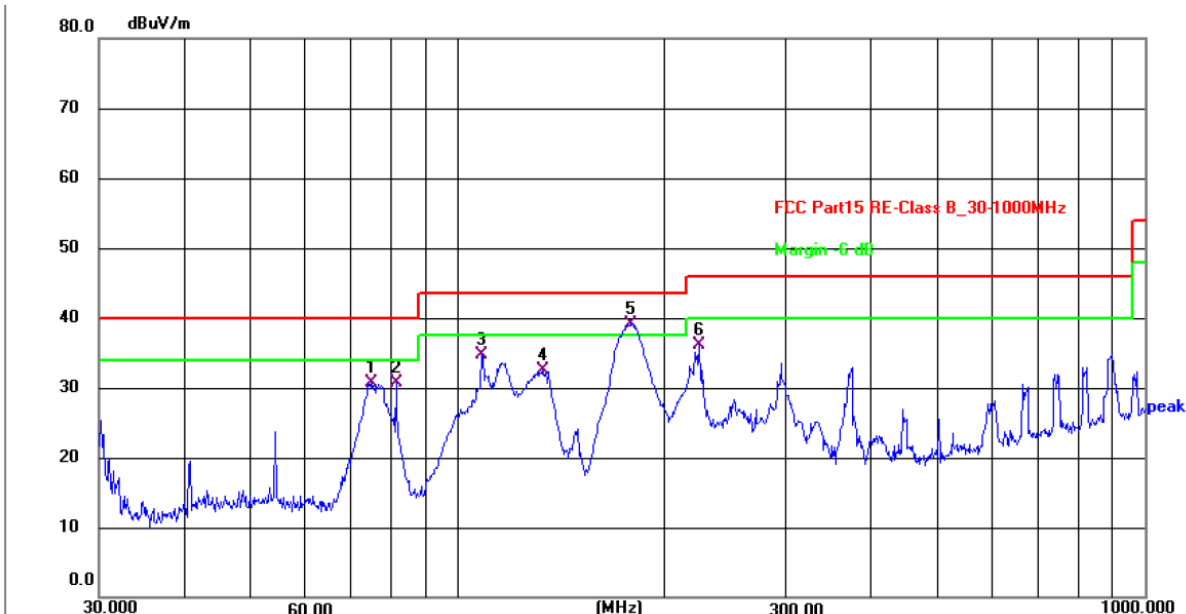
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	12.7860	56.13	-27.91	28.22	69.50	-41.28	peak	P	
2	13.0000	54.54	-27.91	26.63	69.50	-42.87	peak	P	
3	13.5620	84.10	-27.92	56.18	124.00	-67.82	peak	P	
4	14.0140	54.94	-27.93	27.01	69.50	-42.49	peak	P	
5	14.2500	54.81	-27.93	26.88	69.50	-42.62	peak	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Horizontal
Distance:	3m	Test Mode:	TM1
Model No.:	WF3285T	Adapter Model	FJ-SW729C1205000U



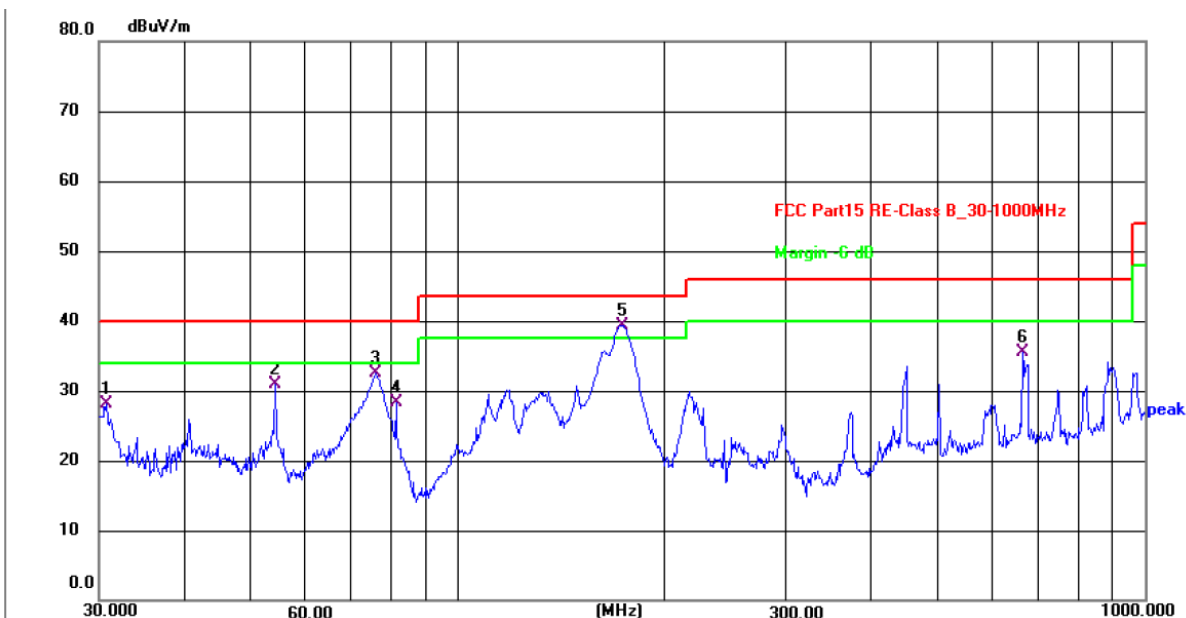
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	74.6569	49.69	-19.06	30.63	40.00	-9.37	QP	P	
2	81.2117	50.18	-19.44	30.74	40.00	-9.26	QP	P	
3	108.2667	50.91	-16.22	34.69	43.50	-8.81	QP	P	
4	133.1511	50.27	-17.69	32.58	43.50	-10.92	QP	P	
5 *	178.7584	55.78	-16.61	39.17	43.50	-4.33	QP	P	
6	224.5193	50.30	-14.20	36.10	46.00	-9.90	QP	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Vertical
Distance:	3m	Test Mode:	TM1
Model No.:	WF3285T	Adapter Model	FJ-SW729C1205000U

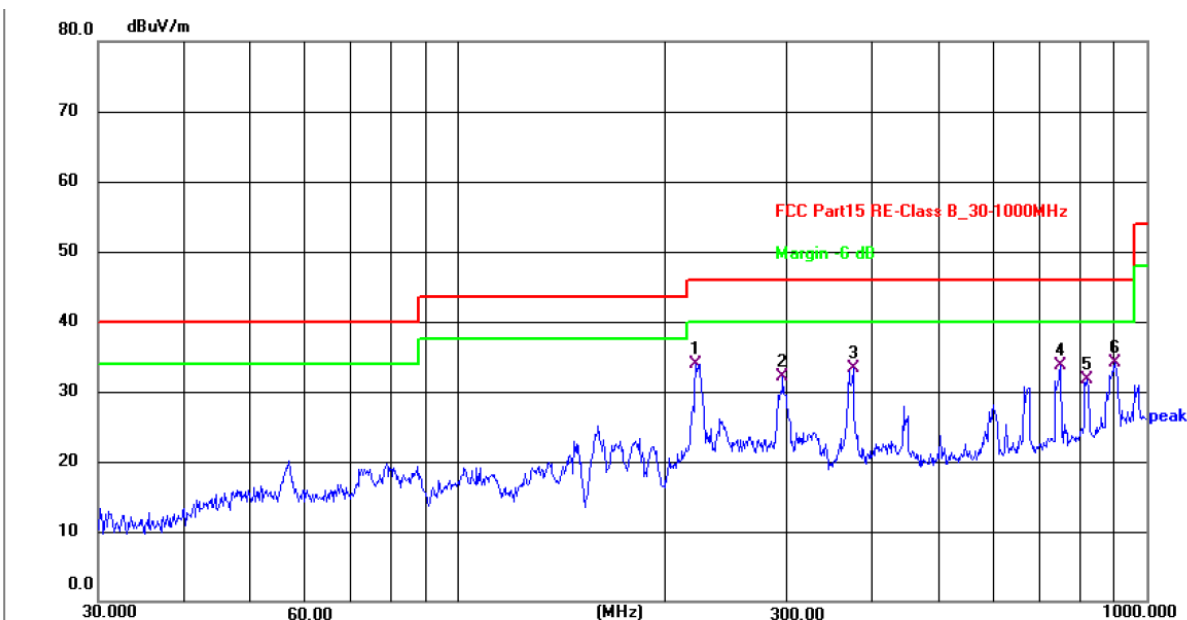


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.7454	45.05	-16.93	28.12	40.00	-11.88	QP	P	
2	54.2610	45.31	-14.46	30.85	40.00	-9.15	QP	P	
3	75.9773	51.66	-19.25	32.41	40.00	-7.59	QP	P	
4	81.2117	47.77	-19.44	28.33	40.00	-11.67	QP	P	
5 *	173.8135	56.36	-16.97	39.39	43.50	-4.11	QP	P	
6	663.4728	41.11	-5.53	35.58	46.00	-10.42	QP	P	

Note: Level = Reading + Factor Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

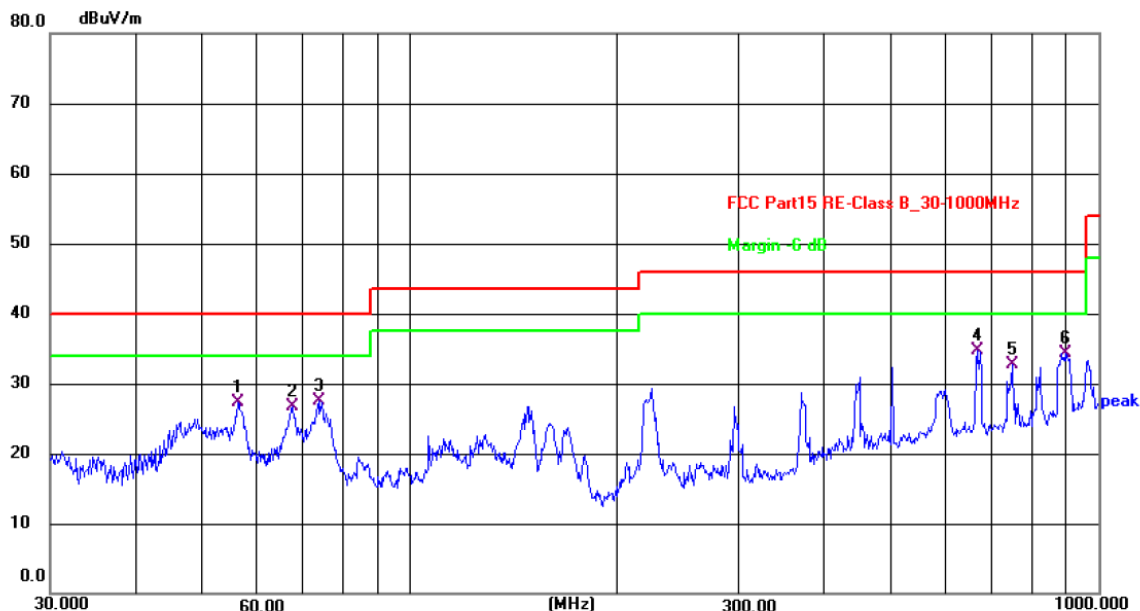
Test Site:	966 Chamber #1	Polarization:	Horizontal
Distance:	3m	Test Mode:	TM1
Model No.:	WF3285T	Adapter Model	S065-1A120500B3



Note: Level = Reading + Factor Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Vertical
Distance:	3m	Test Mode:	TM1
Model No.:	WF3285T	Adapter Model	S065-1A120500B3



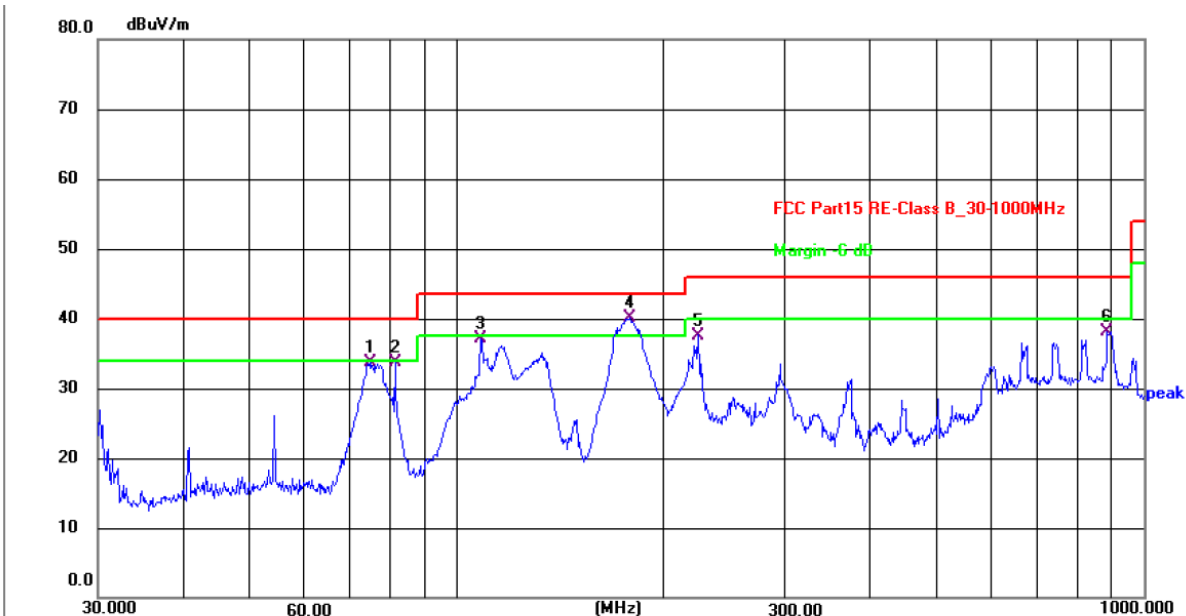
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	56.1974	41.95	-14.74	27.21	40.00	-12.79	QP	P	
2	67.4381	43.85	-17.08	26.77	40.00	-13.23	QP	P	
3	73.6170	46.24	-18.83	27.41	40.00	-12.59	QP	P	
4 *	665.8034	40.19	-5.50	34.69	46.00	-11.31	QP	P	
5	750.1082	37.28	-4.55	32.73	46.00	-13.27	QP	P	
6	893.8564	36.75	-2.46	34.29	46.00	-11.71	QP	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Horizontal
Distance:	3m	Test Mode:	TM1/ CH Middle
Model No.:	FA3285T		

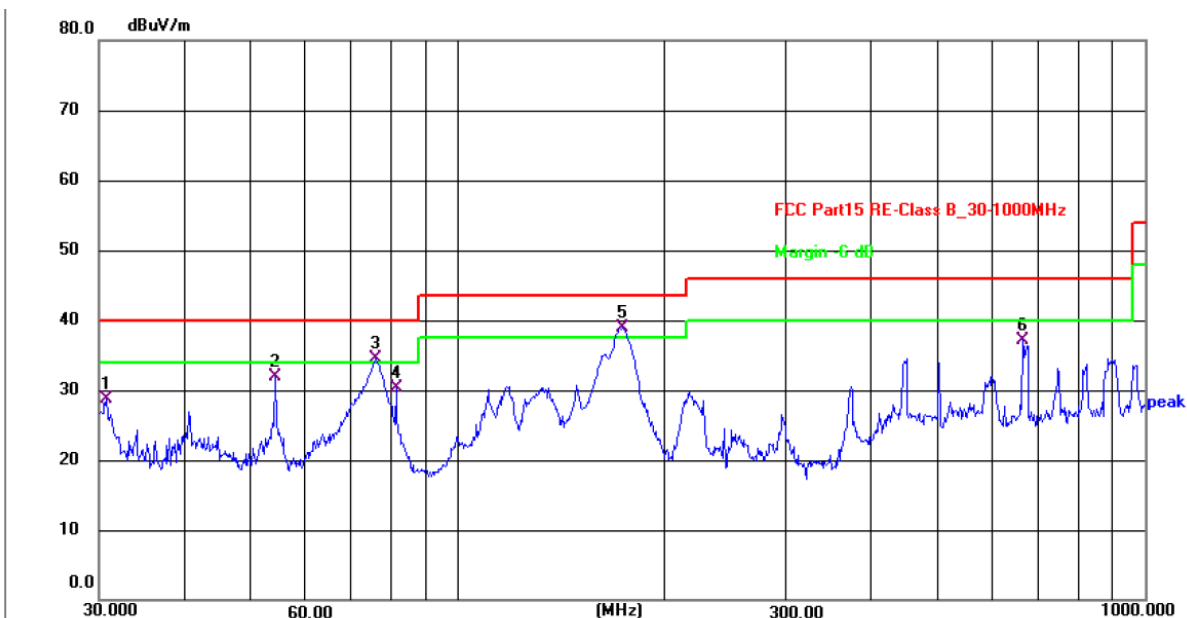


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	74.6568	52.70	-19.07	33.63	40.00	-6.37	QP	P	
2	81.2117	53.18	-19.44	33.74	40.00	-6.26	QP	P	
3	108.2666	53.41	-16.22	37.19	43.50	-6.31	QP	P	
4 *	178.7584	56.78	-16.61	40.17	43.50	-3.33	QP	P	
5	224.5192	51.80	-14.20	37.60	46.00	-8.40	QP	P	
6	884.5028	40.52	-2.38	38.14	46.00	-7.86	QP	P	

Note: Level = Reading + Factor Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Vertical
Distance:	3m	Test Mode:	TM1/ CH Middle
Model No.:	FA3285T		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.7454	45.55	-16.93	28.62	40.00	-11.38	QP	P	
2	54.2610	46.31	-14.46	31.85	40.00	-8.15	QP	P	
3 !	75.9772	53.66	-19.25	34.41	40.00	-5.59	QP	P	
4	81.2116	49.77	-19.44	30.33	40.00	-9.67	QP	P	
5 *	173.8135	55.86	-16.97	38.89	43.50	-4.61	QP	P	
6	663.4728	42.61	-5.53	37.08	46.00	-8.92	QP	P	

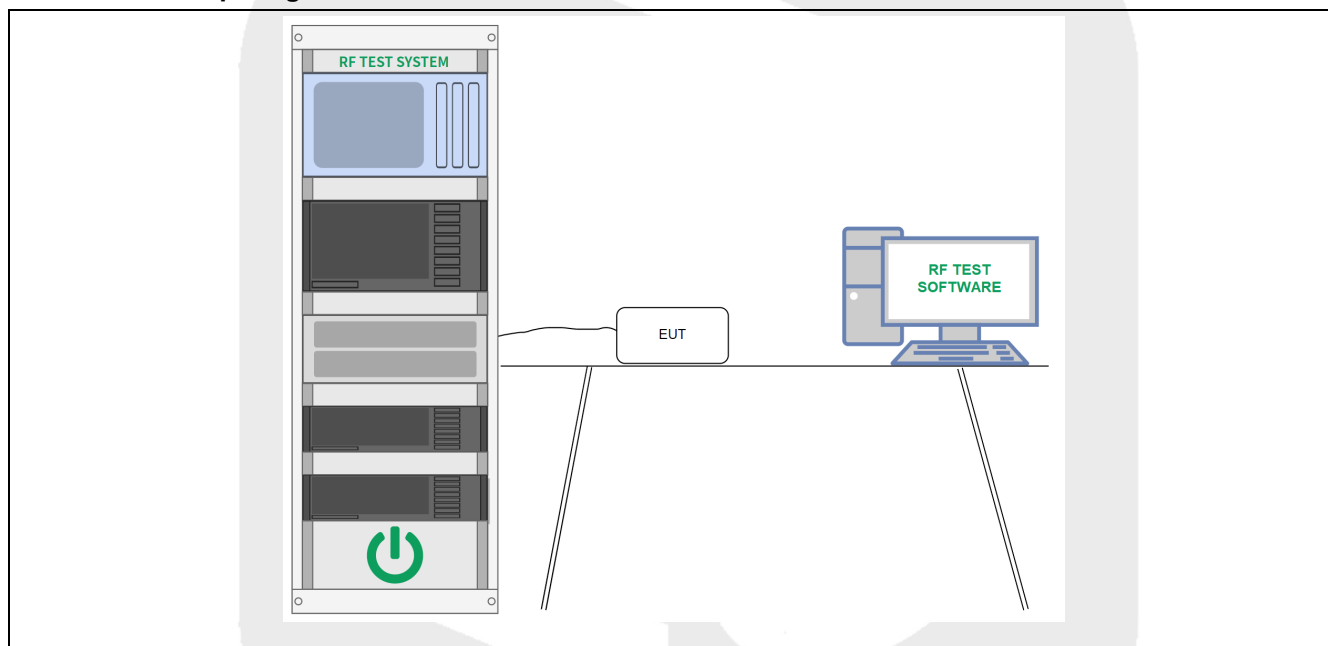
Note: Level = Reading + Factor Margin = Level - Limit

5.5 Frequency Stability

5.5.1 Test Requirement

Test Requirement	FCC §15.225(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees C to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
Test Method	ANSI C63.10-2020, section 6.8 Frequency Stability Test

5.5.2 Test Setup Diagram



5.5.3 Test Procedure

✧ Frequency stability with respect to ambient temperature

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument through an attenuator if necessary.

NOTE-An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 min, 5 min, and 10 min after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more than 10 °C, and allow the temperature inside the chamber to stabilize.

j) Repeat step f through step i) down to the lowest specified temperature.

✧ Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15 °C to +25 °C). a) An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency measuring instrument.

NOTE An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

b) Tune the EUT to one of the number of frequencies. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

c) Measure the frequency at each of the frequencies.

d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

5.5.4 Test Data

PASS.

Please refer to the following pages.

Test Result:

Test Conditions		Frequency (Hz)	Deviation (%)	Limit
Power (VAC)	Temperature (°C)			
12.0	-20	13559960	-0.000295	+/-0.01%
	-10	13560145	0.001069	
	0	13560105	0.000774	
	+10	13560085	0.000627	
	+20	13559205	-0.005863	
	+25	13560185	0.001364	
	+30	13560185	0.001364	
	+40	13560185	0.001364	
	+50	13560205	0.001512	
10.8	+20	13560185	0.001364	
13.2	+20	13559960	-0.000295	

ANNEX A TEST SETUP PHOTOS

Please refer to the document “8234EU012105W-AA.PDF”

ANNEX B EXTERNAL PHOTOS

Please refer to the document “8234EU012105W-AB.PDF”

ANNEX C INTERNAL PHOTOS

Please refer to the document “8234EU012105W-AC.PDF”



Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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