

TEST REPORT

Report No.: 8235EU121904W1

Applicant: Shenzhen Aiqingsong Technology Co.,Ltd.

Address: 602-2, F6, Bldg A, Bole Industrial Park, Xiangjiao tang Community, Bantian Street, Longgang, Shenzhen, China

Product Name: Wireless Charger

Model No.: GY-68 (refer to clause 2.4)

Trademark: N/A

FCC ID: 2A76B-GY-68

Test Standard(s): 47 CFR Part 18 Subpart C

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ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



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2 General Information

2.1 Applicant Information

Applicant	Shenzhen Aiqingsong Technology Co.,Ltd.
Address	602-2, F6, Bldg A, Bole Industrial Park, Xiangjiao tang Community, Bantian Street, Longgang, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Aiqingsong Technology Co.,Ltd.
Address	602-2, F6, Bldg A, Bole Industrial Park, Xiangjiao tang Community, Bantian Street, Longgang, Shenzhen, China

2.3 Factory Information

Factory	Shenzhen Aiqingsong Technology Co.,Ltd.
Address	602-2, F6, Bldg A, Bole Industrial Park, Xiangjiao tang Community, Bantian Street, Longgang, Shenzhen, China

2.4 General Description of E.U.T.

Product Name	Wireless Charger
Model No. Under Test	GY-68
List Model No.	FD-314, FD-304, FD-303, FD-301, FD-305, FD-306, FD-307, FD-308 FD-309, FD-310, FD-311, FD-312, FD-313, FD-315, FD-316, FD-317, FD-318, FD-319, FD-320, FD-321, FD-322, FD-323, FD-324, FD-325, Q740, K1, K8, K20, K18, X16, Q12, K9, 709, Q5, N30, V8, Y9, V5
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in appearance colors and model name. (this information provided by the customer)
Rating(s)	Input: 5.0V---2.0A/9.0V---2.0A Output: 5.0V---1.0A/9.0V---1.2A Wireless Charging Output: 10W
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	N/A
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	Wireless Power Transfer
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The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT
Operating Frequency	110.1-205KHz
Modulation Type	FSK
Antenna Type	Coil 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 18, Subpart C	Industrial, Scientific, and medical medical 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	Conducted Emission at AC Power Line	18.307	Pass	--
2	Radiated Emissions	18.305	Pass	--

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)	120VAC, 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	2024/01/09	2025/01/08
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	ANKER	A2149	EMC-PJ-035
2	Wireless Charging Load	YBZ	ID-ZWX	EMC-PJ-050

4.4 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

No.	Description	Remark
TM1	Wireless Output (10W)	
TM2	Standby	
Note: 1. All the conditions have been tested. It is found that TM1 is the worst mode, and the data in the report only reflects the worst 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.

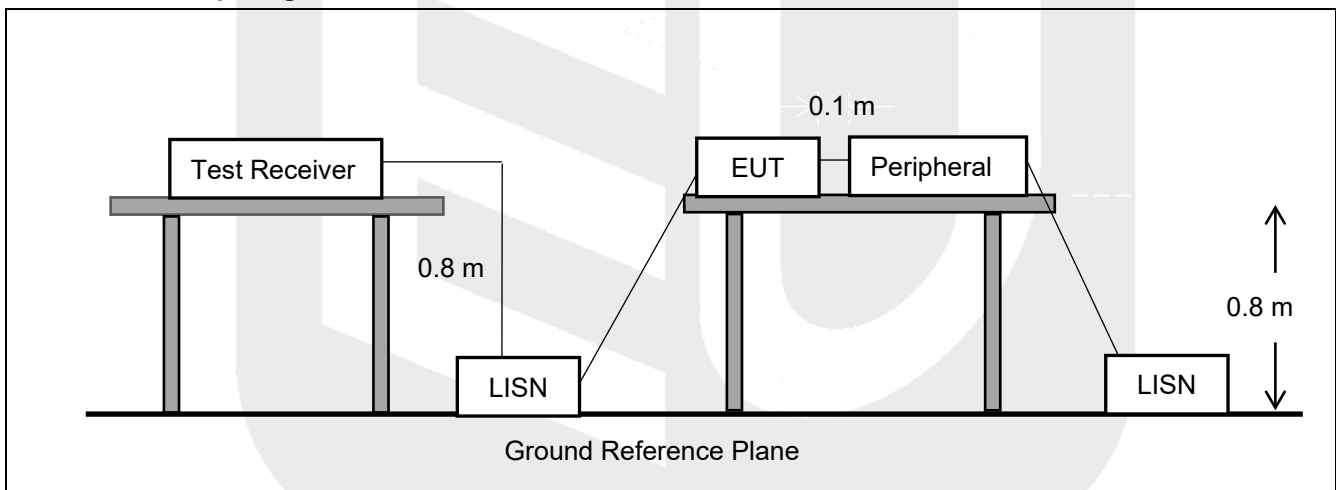
5 Test Items

5.1 Conducted Emission at AC Power Line

5.1.1 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.		

5.1.2 Test Setup Diagram



5.1.3 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.

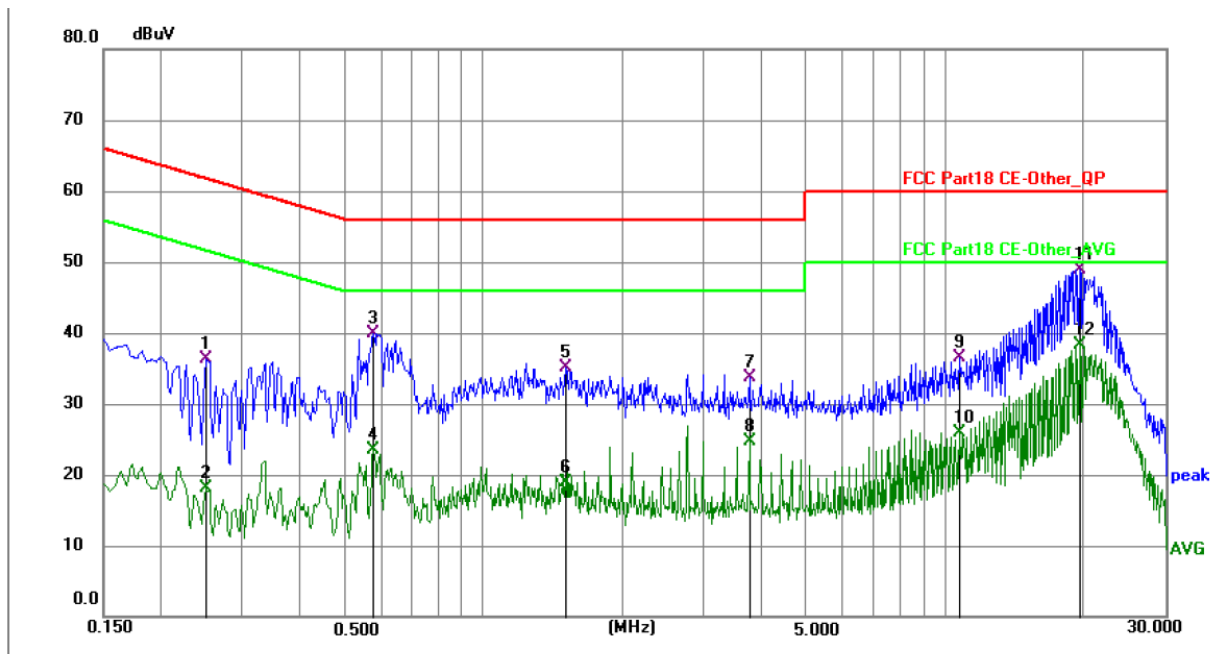
5.1.4 Test Data

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

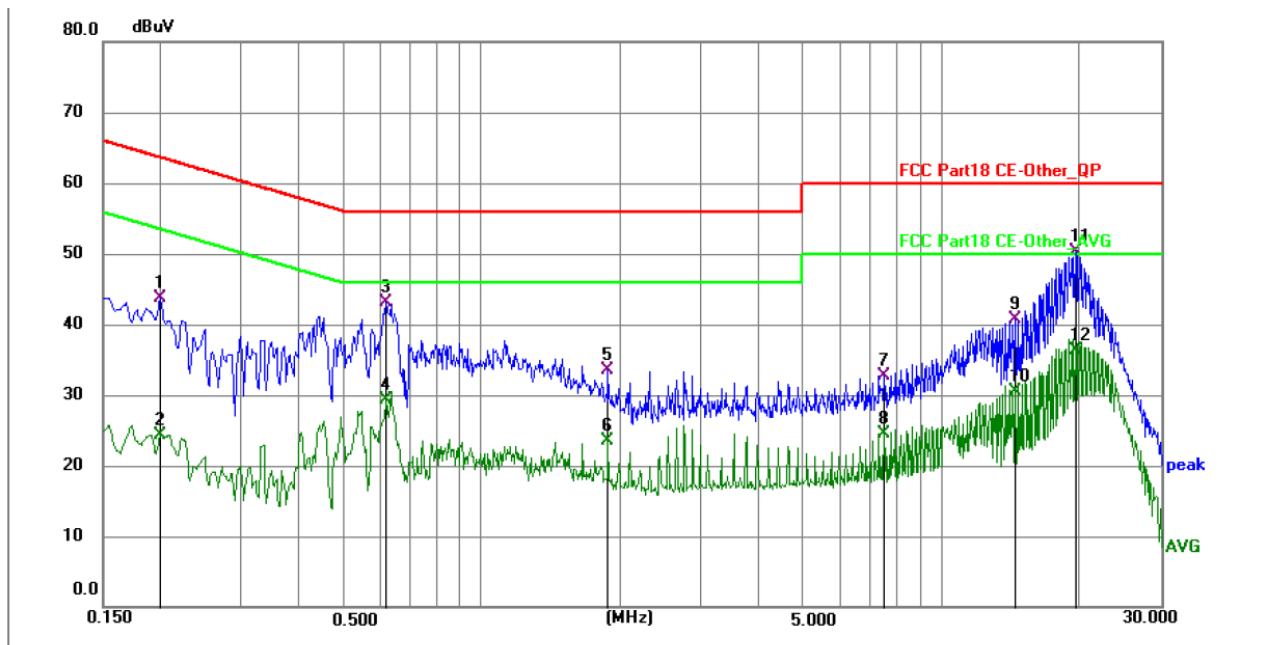


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2490	26.36	9.97	36.33	61.79	-25.46	QP	P	
2	0.2490	8.10	9.97	18.07	51.79	-33.72	AVG	P	
3	0.5775	29.87	10.04	39.91	56.00	-16.09	QP	P	
4	0.5775	13.54	10.04	23.58	46.00	-22.42	AVG	P	
5	1.5090	25.07	10.03	35.10	56.00	-20.90	QP	P	
6	1.5090	8.86	10.03	18.89	46.00	-27.11	AVG	P	
7	3.7635	23.65	10.05	33.70	56.00	-22.30	QP	P	
8	3.7635	14.70	10.05	24.75	46.00	-21.25	AVG	P	
9	10.7385	26.50	9.96	36.46	60.00	-23.54	QP	P	
10	10.7385	15.93	9.96	25.89	50.00	-24.11	AVG	P	
11 *	19.6080	38.89	10.06	48.95	60.00	-11.05	QP	P	
12	19.6080	28.25	10.06	38.31	50.00	-11.69	AVG	P	

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

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1995	33.64	9.99	43.63	63.63	-20.00	QP	P	
2	0.1995	14.31	9.99	24.30	53.63	-29.33	AVG	P	
3	0.6180	33.04	10.07	43.11	56.00	-12.89	QP	P	
4	0.6180	19.31	10.07	29.38	46.00	-16.62	AVG	P	
5	1.8825	23.45	10.07	33.52	56.00	-22.48	QP	P	
6	1.8825	13.41	10.07	23.48	46.00	-22.52	AVG	P	
7	7.5210	22.73	10.03	32.76	60.00	-27.24	QP	P	
8	7.5210	14.57	10.03	24.60	50.00	-25.40	AVG	P	
9	14.4960	30.64	9.99	40.63	60.00	-19.37	QP	P	
10	14.4960	20.44	9.99	30.43	50.00	-19.57	AVG	P	
11 *	19.5855	40.15	10.07	50.22	60.00	-9.78	QP	P	
12	19.5855	26.33	10.07	36.40	50.00	-13.60	AVG	P	

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

5.2 Radiated Emission

5.2.1 Test Requirement

Test Requirement	FCC §18.305										
Test Limit	Limits for frequency below 30MHz: Except as provided elsewhere in this Subpart 18.305(b), the field strength levels of emissions which lie outside the bands specified in § 18.301, unless otherwise indicated, shall not exceed the following table:										
	<table><tr><th rowspan="2">Frequency (MHz)</th><th rowspan="2">Measurement distance (meters)</th><th colspan="2">Field Strength Limit</th></tr><tr><th>(dBµV/m)</th><th>Remark</th></tr><tr><td>0.009-30</td><td>3</td><td>103.5</td><td>Quasi-peak</td></tr></table>	Frequency (MHz)	Measurement distance (meters)	Field Strength Limit		(dBµV/m)	Remark	0.009-30	3	103.5	Quasi-peak
	Frequency (MHz)			Measurement distance (meters)	Field Strength Limit						
		(dBµV/m)	Remark								
	0.009-30	3	103.5	Quasi-peak							
	Remark: (1) Emission level dBuV/m = 20lg (15) +40*lg (300/3) =103.5 dBuV/m; (2) Calculated according FCC 18.305; (3) The smaller limit shall apply at the cross point between two frequency bands; (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.										
Limits for frequency above 30MHz:											
<table><tr><th>Frequency (MHz)</th><th>Measurement distance (meters)</th><th>Field Strength Limit (dBµV/m)</th></tr><tr><td>30-1000</td><td>3</td><td>63.5</td></tr></table>	Frequency (MHz)	Measurement distance (meters)	Field Strength Limit (dBµV/m)	30-1000	3	63.5					
Frequency (MHz)	Measurement distance (meters)	Field Strength Limit (dBµV/m)									
30-1000	3	63.5									
Remark: (1) Emission level dBuV/m = 20lg (15) +20*lg (300/3) =63.5 dBuV/m.											
Test Method	ANSI C63.10-2020 section 6.4, 6.5 Radiated emissions tests										

5.2.2 Test Setup Diagram

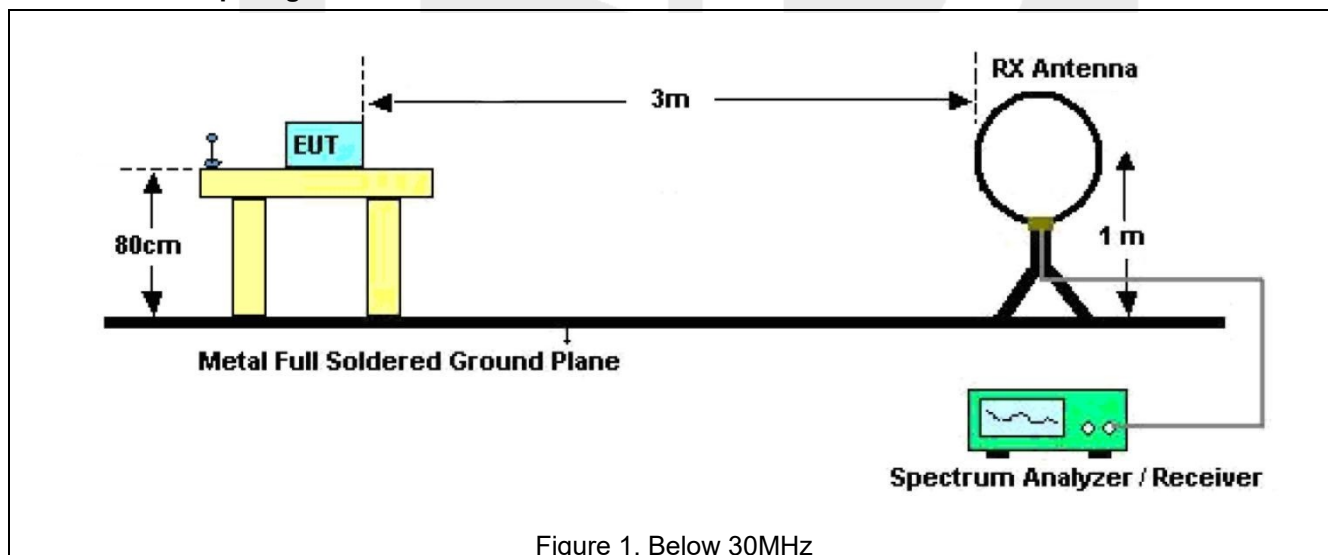
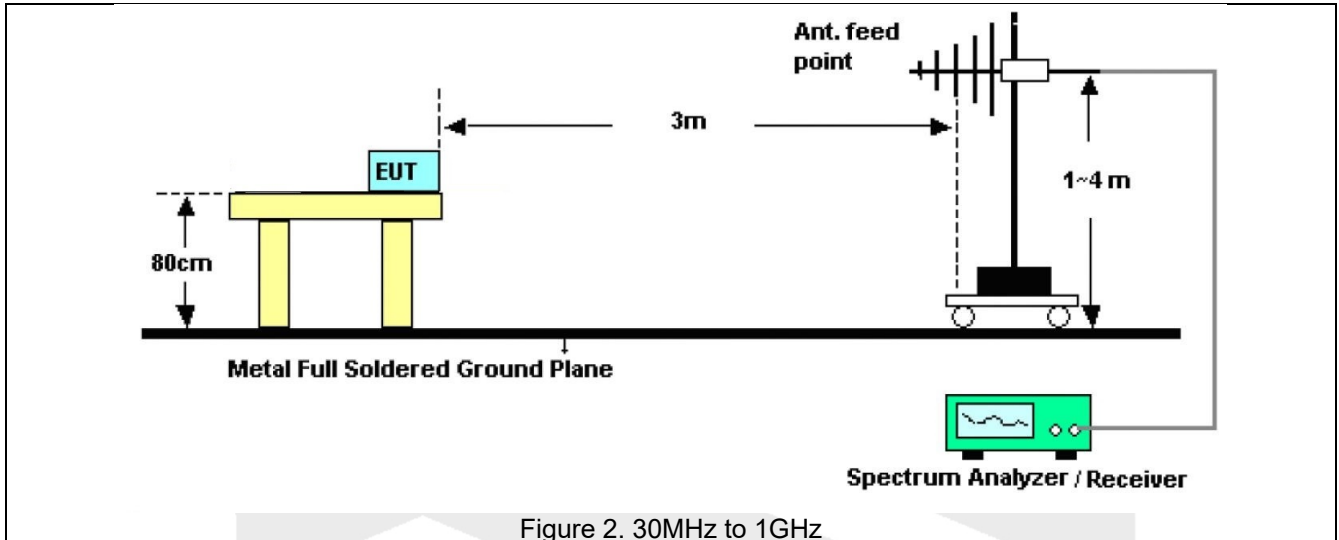


Figure 1. Below 30MHz



5.2.3 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.

5.2.4 Test Data

PASS.

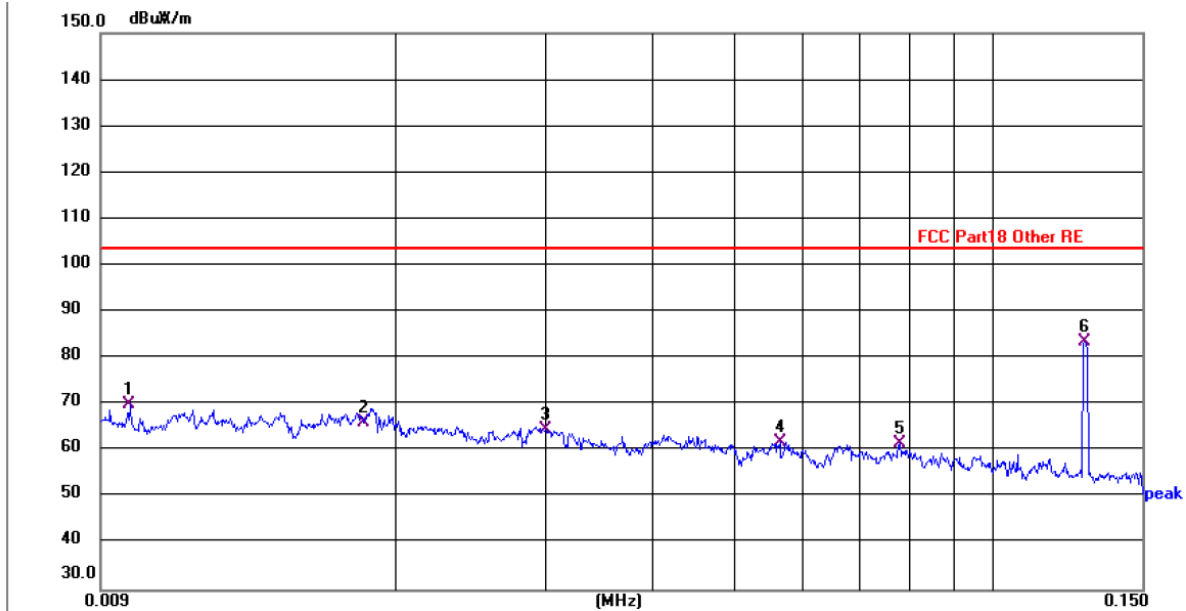
Please refer to the following pages.

The frequency range from 9KHz to 1000MHz is checked.

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

Radiated Emission Test Data (9kHz -150kHz)

Test item: **966 Chamber #1** Polarization: **Coaxial**
Distance: **3m** Test Mode: **TM1**

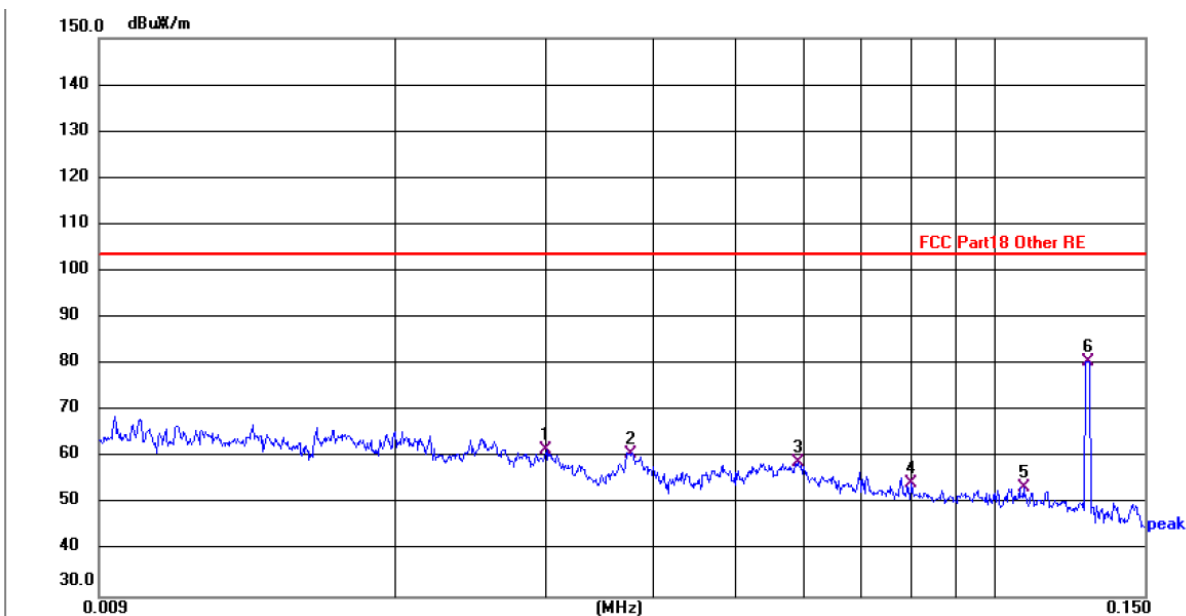


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0097	50.45	19.60	70.05	103.50	-33.45	QP	P	
2	0.0183	46.61	19.69	66.30	103.50	-37.20	QP	P	
3	0.0300	44.89	19.83	64.72	103.50	-38.78	QP	P	
4	0.0563	42.04	19.93	61.97	103.50	-41.53	QP	P	
5	0.0777	41.61	19.94	61.55	103.50	-41.95	QP	P	
6 *	0.1282	63.60	19.96	83.56	103.50	-19.94	QP	P	

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

Radiated Emission Test Data (9kHz -150kHz)

Test item: **966 Chamber #1** Polarization: **Coplanar**
Distance: **3m** Test Mode: **TM1**

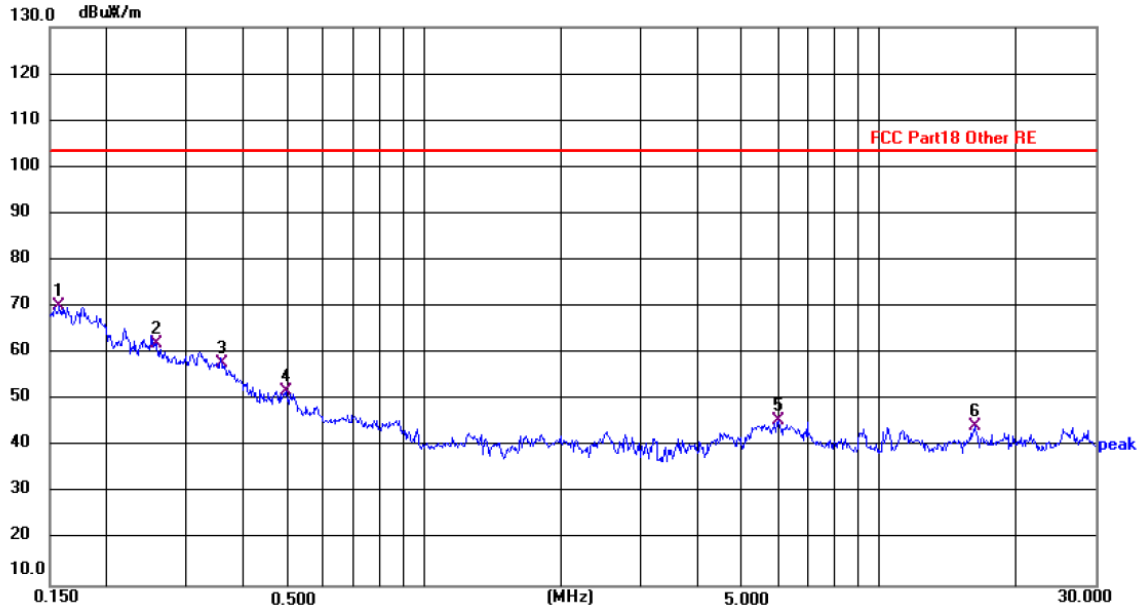


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0300	41.97	19.83	61.80	103.50	-41.70	QP	P	
2	0.0376	40.78	19.87	60.65	103.50	-42.85	QP	P	
3	0.0590	39.05	19.93	58.98	103.50	-44.52	QP	P	
4	0.0800	34.59	19.94	54.53	103.50	-48.97	QP	P	
5	0.1082	33.44	20.03	53.47	103.50	-50.03	QP	P	
6 *	0.1287	60.69	19.96	80.65	103.50	-22.85	QP	P	

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

Radiated Emission Test Data (150kHz - 30MHz)

Test item: **966 Chamber #1** Polarization: **Coaxial**
Distance: **3m** Test Mode: **TM1**

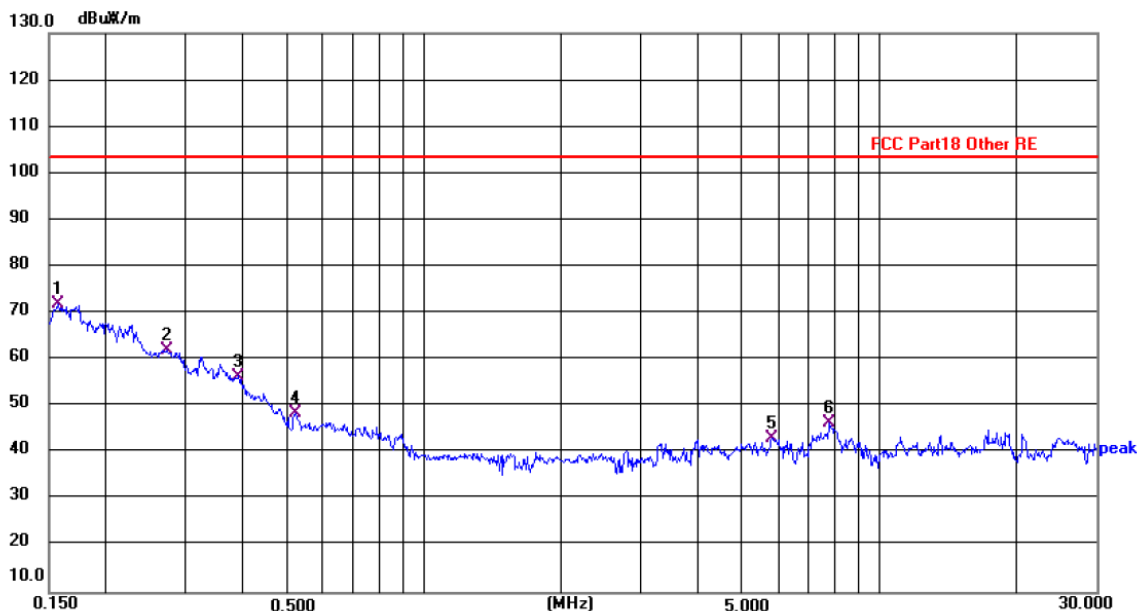


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	0.1572	50.13	20.07	70.20	103.50	-33.30	QP	P	
2	0.2575	41.94	20.09	62.03	103.50	-41.47	QP	P	
3	0.3593	37.70	20.09	57.79	103.50	-45.71	QP	P	
4	0.4964	31.91	20.08	51.99	103.50	-51.51	QP	P	
5	5.9923	25.65	19.99	45.64	103.50	-57.86	QP	P	
6	16.2256	24.96	19.46	44.42	103.50	-59.08	QP	P	

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

Radiated Emission Test Data (150kHz - 30MHz)

Test item: **966 Chamber #1** Polarization: **Coplanar**
Distance: **3m** Test Mode: **TM1**

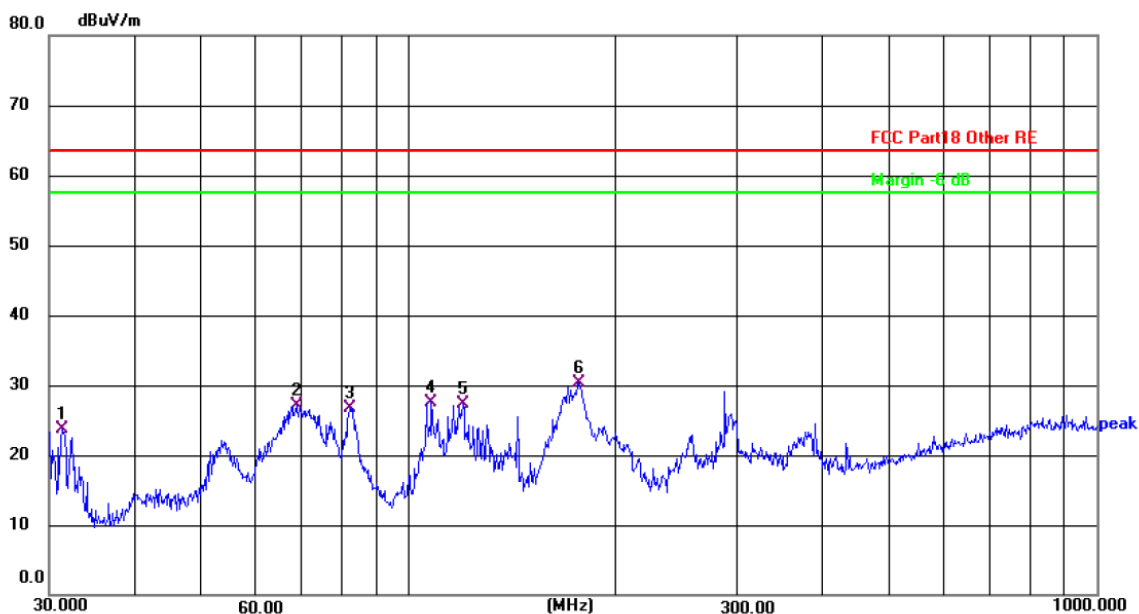


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	0.1564	51.89	20.07	71.96	103.50	-31.54	QP	P	
2	0.2730	42.00	20.09	62.09	103.50	-41.41	QP	P	
3	0.3911	36.41	20.09	56.50	103.50	-47.00	QP	P	
4	0.5210	28.35	20.08	48.43	103.50	-55.07	QP	P	
5	5.8050	23.28	20.00	43.28	103.50	-60.22	QP	P	
6	7.7686	26.47	19.85	46.32	103.50	-57.18	QP	P	

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

Radiated Emission Test Data (30-1000MHz)

Test item:	966 Chamber #1	Polarization:	Horizontal
Distance:	3m	Test Mode:	TM1



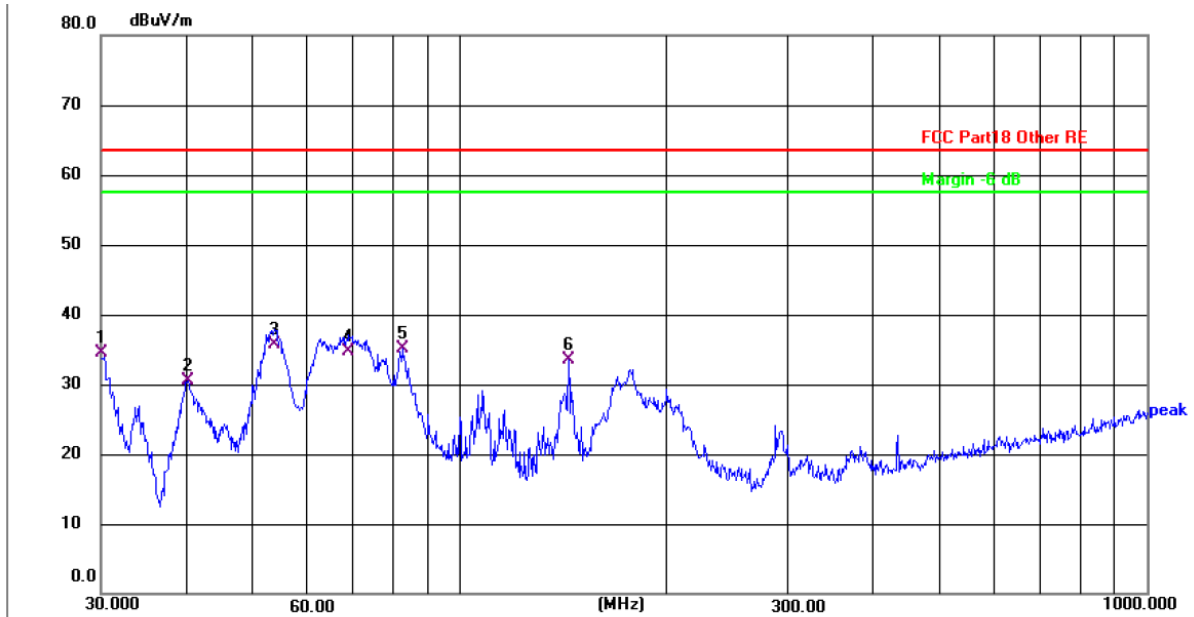
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	31.2893	40.61	-16.90	23.71	63.50	-39.79	QP	P	
2	68.8721	44.63	-17.60	27.03	63.50	-36.47	QP	P	
3	82.0706	45.96	-19.29	26.67	63.50	-36.83	QP	P	
4	107.8877	43.80	-16.20	27.60	63.50	-35.90	QP	P	
5	119.8556	44.20	-16.91	27.29	63.50	-36.21	QP	P	
6 *	176.8878	47.05	-16.74	30.31	63.50	-33.19	QP	P	

Note: Level = Reading + Factor

Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test item:	966 Chamber #1	Polarization:	Vertical
Distance:	3m	Test Mode:	TM1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.0000	51.45	-16.94	34.51	63.50	-28.99	QP	P	
2	40.1347	45.67	-15.19	30.48	63.50	-33.02	QP	P	
3 *	53.6932	50.13	-14.43	35.70	63.50	-27.80	QP	P	
4	68.8721	52.40	-17.60	34.80	63.50	-28.70	QP	P	
5	82.3588	54.33	-19.23	35.10	63.50	-28.40	QP	P	
6	143.8295	51.92	-18.33	33.59	63.50	-29.91	QP	P	

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

ANNEX A TEST SETUP PHOTOS

Please refer to the document "8235EU121904W-AA.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8235EU121904W-AB.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8235EU121904W-AC.PDF"



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