

FCC TEST REPORT

Client Name : Anker Innovations Limited

Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road,
Mongkok, Kowloon, Hong Kong

Product Name : USB-A Portable Magnetic Charger

Date : Dec. 08, 2020



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : USB-A Portable Magnetic Charger
Model No. : A8803, A8804
Trade Mark : ANKER
Rating(s) : Input: DC 5V, 1A
Wireless output: 5W Max
Test Standard(s) : **FCC Part15 Subpart C, Paragraph 15.209**
Test Method(s) : **ANSI C63.10: 2013**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Nov. 13, 2020

Date of Test

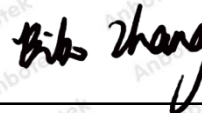
Nov. 13~30, 2020

Prepared By



(Engineer / Yilia Zhong)

Reviewer



(Supervisor / Bibo Zhang)

Approved & Authorized Signer



(Manager / Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong

1.2. Description of Device (EUT)

Product Name	:	USB-A Portable Magnetic Charger	
Model No.	:	A8803, A8804 (Note: All samples are the same except the charging port, all models have been tested)	
Trade Mark	:	ANKER	
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	111-205KHz
		Modulation Type:	FSK
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Anker Innovations Limited
		M/N: A2013 Input: 100-240V-0.7A 50-60Hz Output: 3.6-5.5V---3A / 6.5-9V---2A / 9-12V---1.5A
		M/N: A2613 Input: AC 100-240V, 1.8A, 50-60Hz Output USB-C: 5V---2.4A/ 9V---3A/ 15V---3A/ 20V---3A
Apple bracelet	:	/

1.4. Description of Test Modes

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 above was evaluated respectively.

Pretest Mode	Description
Mode 1	Wireless Charging Mode

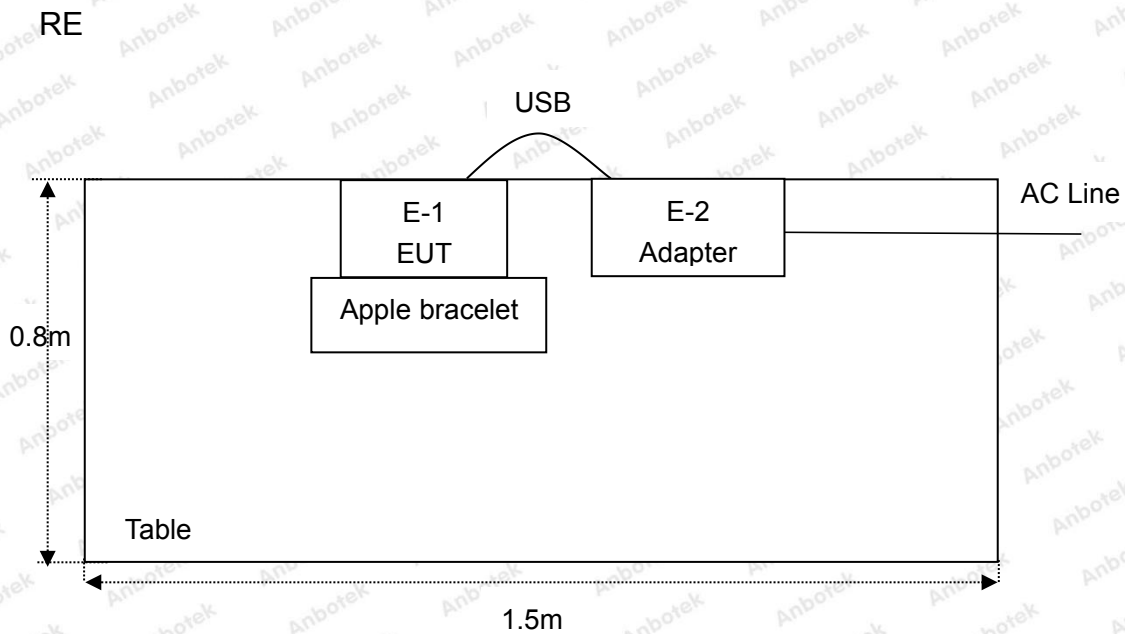
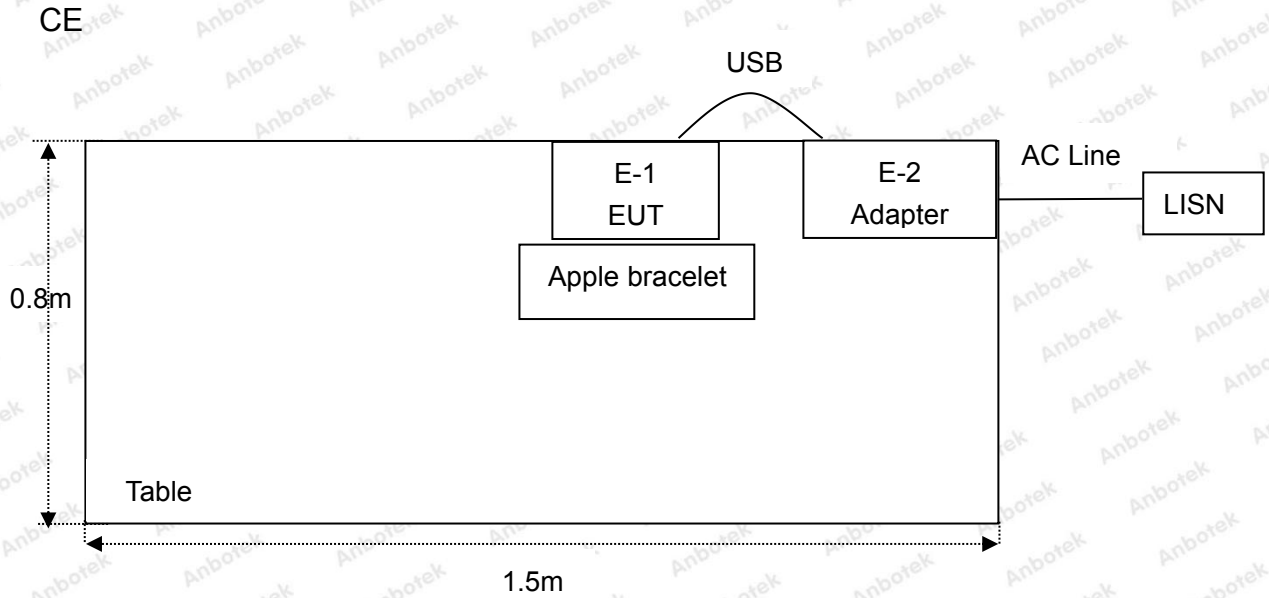
For Conducted Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode

Note: (1)Test channel is 0.1145MHz for model A8803, 0.1111MHz for model A8804.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 5W) was recorded in the report.

1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 26, 2020	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 26, 2020	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26, 2020	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 02, 2020	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15100041SN045	Oct. 26, 2020	1 Year
15.	Power Sensor	DAER	RPR3006W	15100041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 26, 2020	1 Year

1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

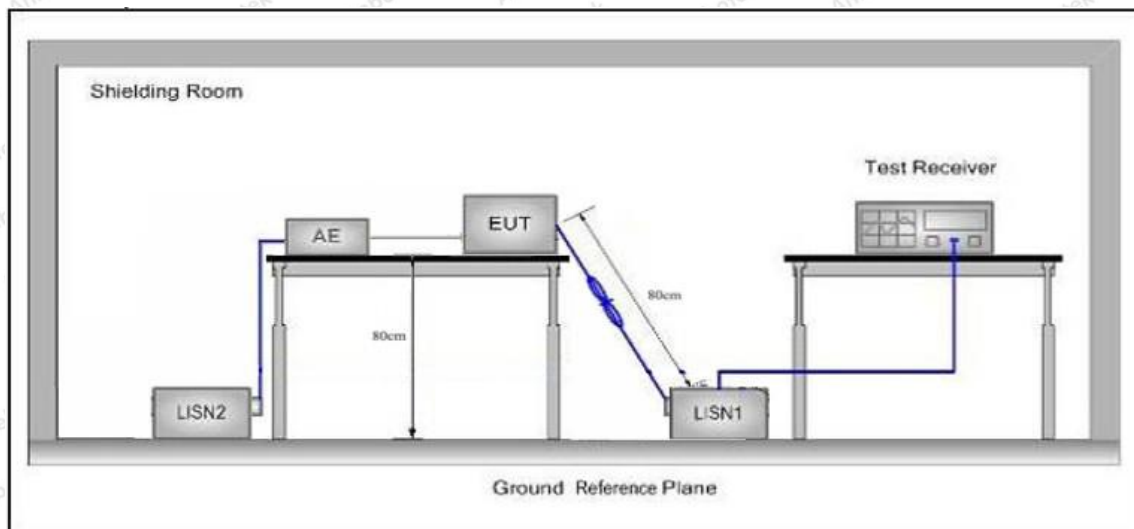
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
5MHz~30MHz	60	50	

Remark: (1) *Decreasing linearly with logarithm of the frequency.
 (2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

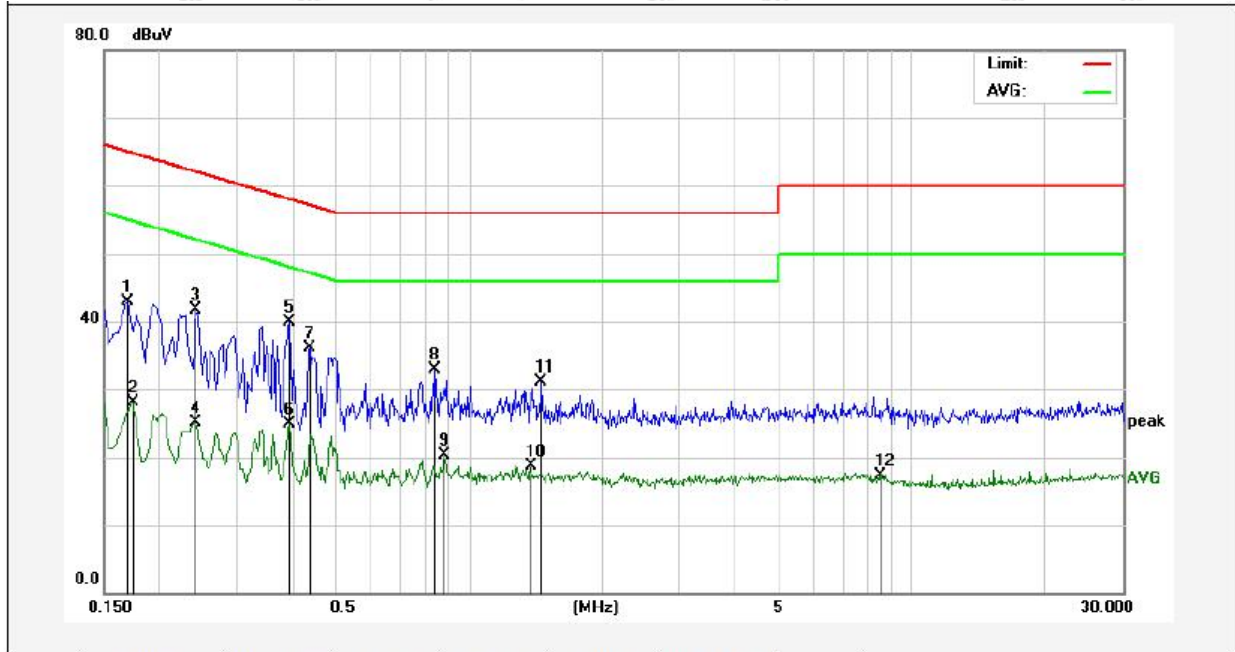
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

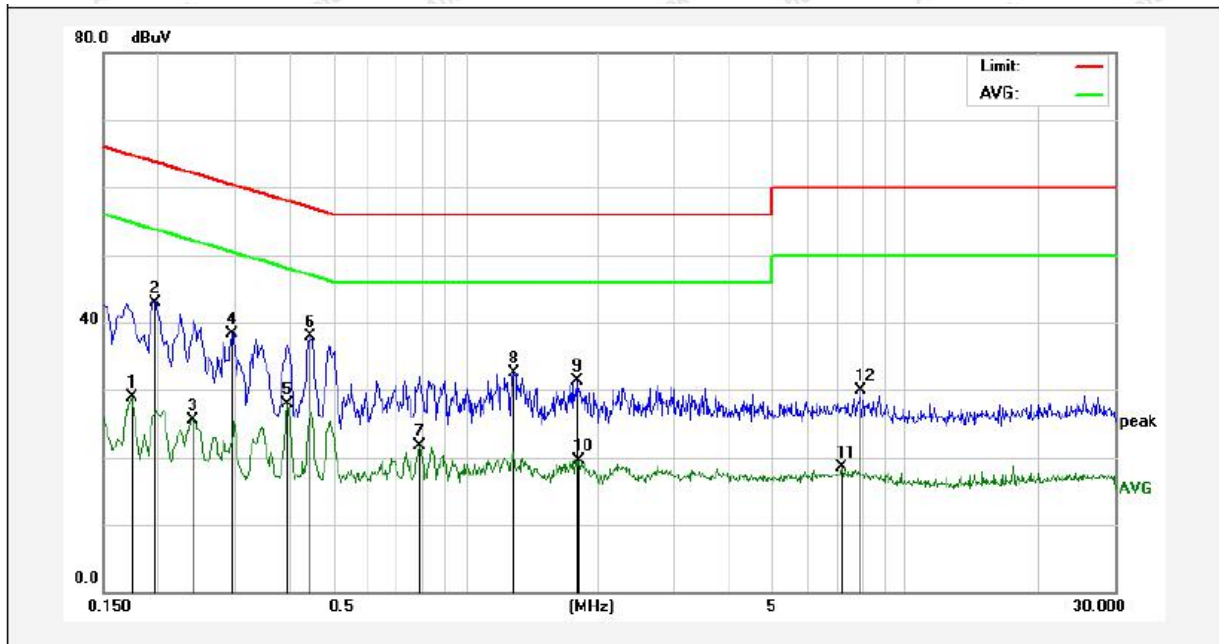
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 22.4°C Hum.: 48%
 Test model: A8803



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1700	23.10	19.90	43.00	64.96	-21.96	QP	
2	0.1740	8.29	19.90	28.19	54.76	-26.57	AVG	
3	0.2420	21.75	19.89	41.64	62.02	-20.38	QP	
4	0.2420	5.21	19.89	25.10	52.02	-26.92	AVG	
5	0.3940	20.07	19.93	40.00	57.98	-17.98	QP	
6	0.3940	5.04	19.93	24.97	47.98	-23.01	AVG	
7	0.4380	16.22	19.95	36.17	57.10	-20.93	QP	
8	0.8420	12.85	20.08	32.93	56.00	-23.07	QP	
9	0.8820	0.14	20.09	20.23	46.00	-25.77	AVG	
10	1.3779	-1.47	20.13	18.66	46.00	-27.34	AVG	
11	1.4620	10.91	20.13	31.04	56.00	-24.96	QP	
12	8.4900	-3.09	20.30	17.21	50.00	-32.79	AVG	

Conducted Emission Test Data

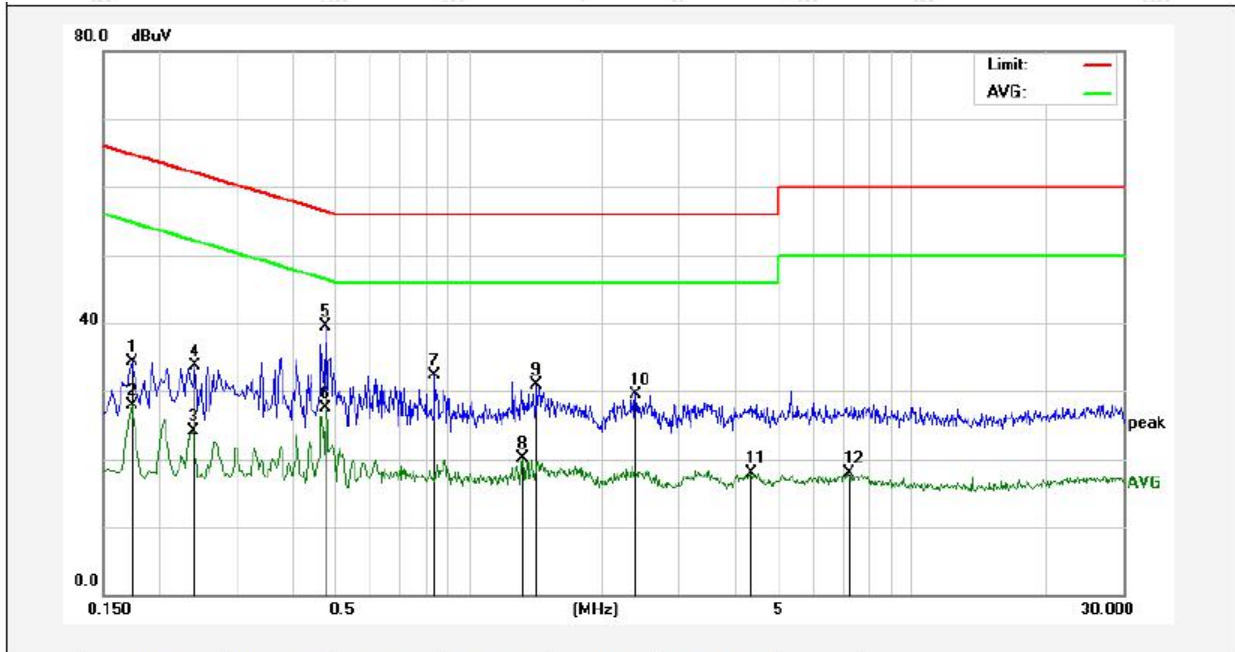
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 22.4°C Hum.: 48%
 Test model: A8803



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	8.98	19.90	28.88	54.76	-25.88	AVG	
2	0.1965	23.09	19.90	42.99	63.75	-20.76	QP	
3	0.2380	5.63	19.89	25.52	52.16	-26.64	AVG	
4	0.2940	18.48	19.89	38.37	60.41	-22.04	QP	
5	0.3940	7.97	19.93	27.90	47.98	-20.08	AVG	
6	0.4460	17.90	19.96	37.86	56.95	-19.09	QP	
7	0.7900	1.67	20.06	21.73	46.00	-24.27	AVG	
8	1.2900	12.29	20.13	32.42	56.00	-23.58	QP	
9	1.7980	11.08	20.14	31.22	56.00	-24.78	QP	
10	1.8140	-0.73	20.14	19.41	46.00	-26.59	AVG	
11	7.1820	-1.79	20.26	18.47	50.00	-31.53	AVG	
12	7.8940	9.56	20.28	29.84	60.00	-30.16	QP	

Conducted Emission Test Data

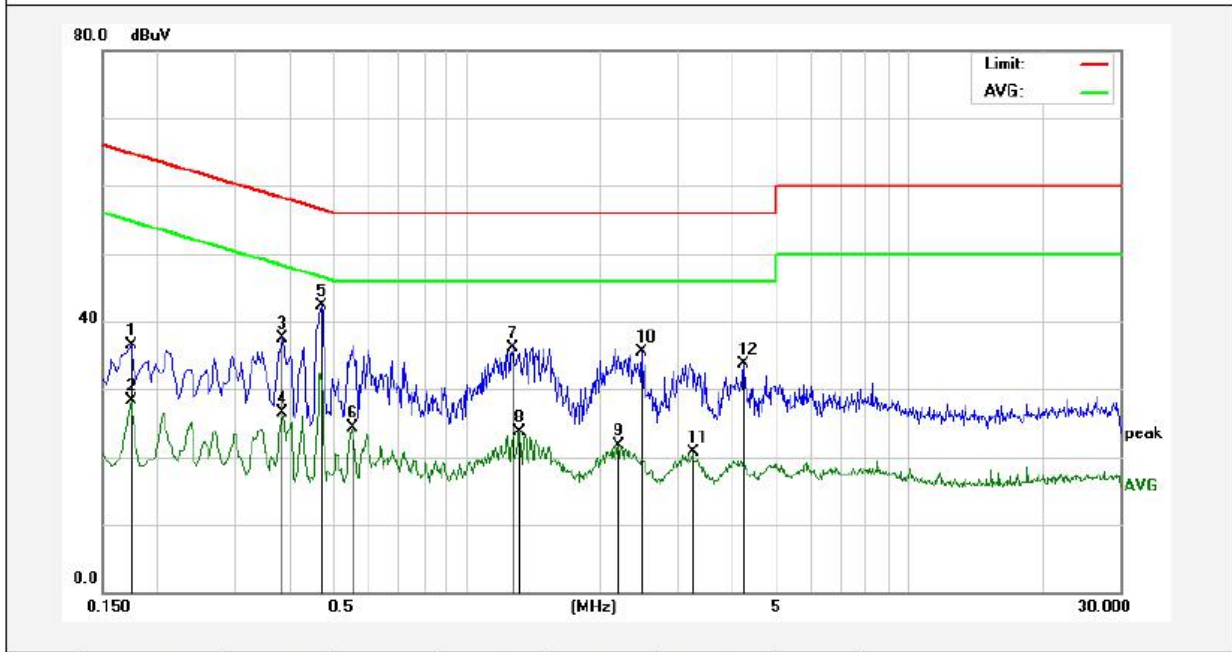
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 22.4°C Hum.: 48%
 Test model: A8803



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	14.41	19.90	34.31	64.76	-30.45	QP	
2	0.1740	7.97	19.90	27.87	54.76	-26.89	AVG	
3	0.2380	4.22	19.89	24.11	52.16	-28.05	AVG	
4	0.2420	13.83	19.89	33.72	62.02	-28.30	QP	
5	0.4780	19.59	19.97	39.56	56.37	-16.81	QP	
6	0.4780	7.48	19.97	27.45	46.37	-18.92	AVG	
7	0.8420	12.21	20.08	32.29	56.00	-23.71	QP	
8	1.3260	0.05	20.13	20.18	46.00	-25.82	AVG	
9	1.4299	10.71	20.13	30.84	56.00	-25.16	QP	
10	2.3900	9.45	20.15	29.60	56.00	-26.40	QP	
11	4.3540	-2.23	20.19	17.96	46.00	-28.04	AVG	
12	7.1820	-2.28	20.26	17.98	50.00	-32.02	AVG	

Conducted Emission Test Data

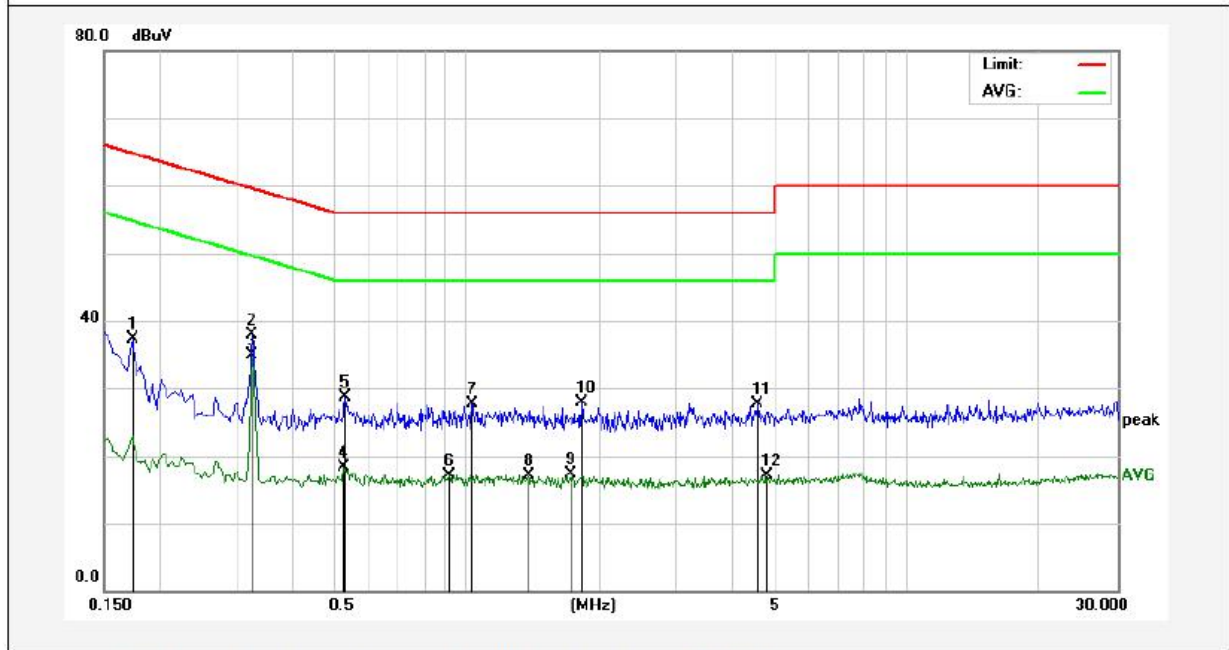
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 22.4°C Hum.: 48%
 Test model: A8803



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	16.51	19.90	36.41	64.76	-28.35	QP	
2	0.1740	8.40	19.90	28.30	54.76	-26.46	AVG	
3	0.3820	17.61	19.93	37.54	58.23	-20.69	QP	
4	0.3820	6.53	19.93	26.46	48.23	-21.77	AVG	
5	0.4700	22.32	19.97	42.29	56.51	-14.22	QP	
6	0.5540	4.30	20.00	24.30	46.00	-21.70	AVG	
7	1.2740	15.91	20.13	36.04	56.00	-19.96	QP	
8	1.3140	3.62	20.13	23.75	46.00	-22.25	AVG	
9	2.2060	1.53	20.14	21.67	46.00	-24.33	AVG	
10	2.4900	15.40	20.15	35.55	56.00	-20.45	QP	
11	3.2500	0.54	20.16	20.70	46.00	-25.30	AVG	
12	4.2340	13.51	20.19	33.70	56.00	-22.30	QP	

Conducted Emission Test Data

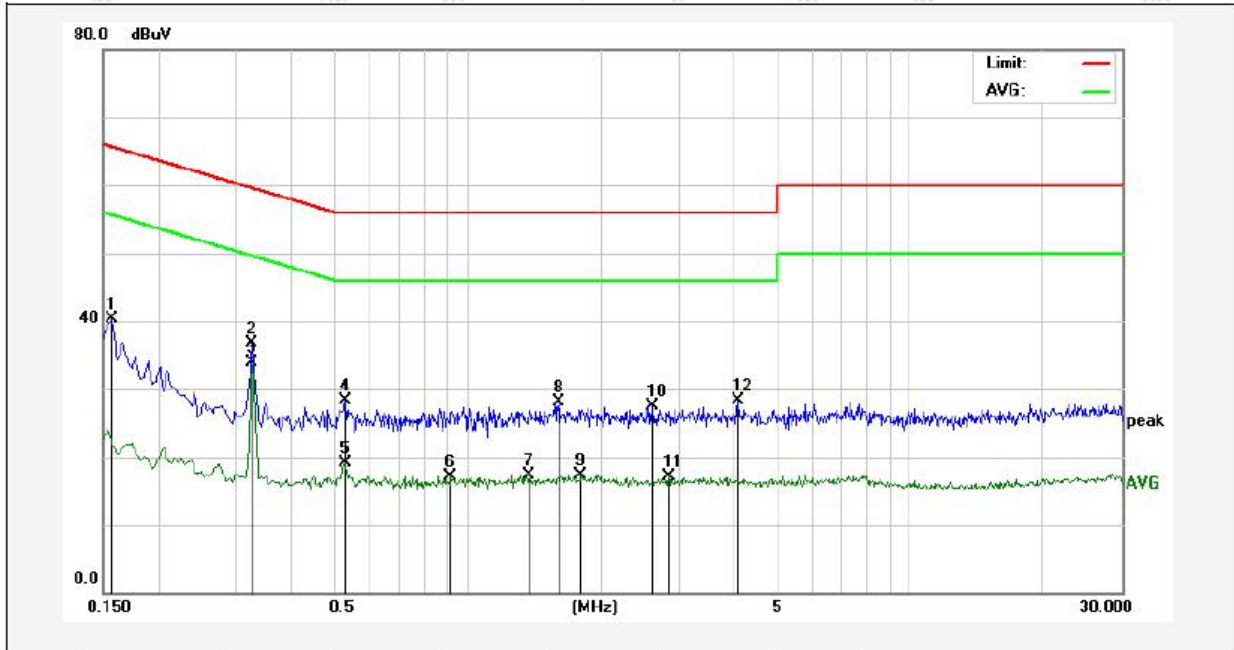
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.6°C Hum.: 52%
 Test model: A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	17.50	19.90	37.40	64.76	-27.36	QP	
2	0.3260	17.98	19.90	37.88	59.55	-21.67	QP	
3	0.3260	14.97	19.90	34.87	49.55	-14.68	AVG	
4	0.5260	-1.63	19.99	18.36	46.00	-27.64	AVG	
5	0.5299	8.70	19.99	28.69	56.00	-27.31	QP	
6	0.9140	-2.92	20.10	17.18	46.00	-28.82	AVG	
7	1.0300	7.63	20.12	27.75	56.00	-28.25	QP	
8	1.3860	-3.03	20.13	17.10	46.00	-28.90	AVG	
9	1.7300	-2.86	20.13	17.27	46.00	-28.73	AVG	
10	1.8220	7.74	20.14	27.88	56.00	-28.12	QP	
11	4.5860	7.50	20.20	27.70	56.00	-28.30	QP	
12	4.7900	-3.17	20.20	17.03	46.00	-28.97	AVG	

Conducted Emission Test Data

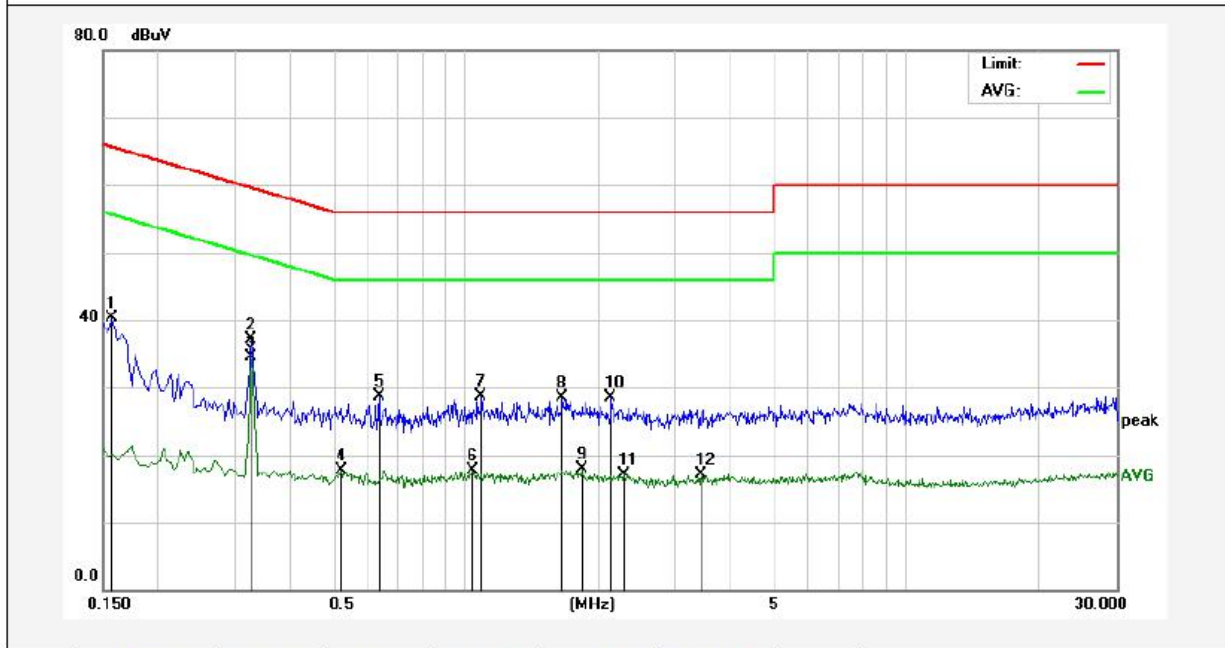
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.6°C Hum.: 52%
 Test model: A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	20.35	19.90	40.25	65.56	-25.31	QP	
2	0.3260	16.82	19.90	36.72	59.55	-22.83	QP	
3	0.3260	13.95	19.90	33.85	49.55	-15.70	AVG	
4	0.5299	8.27	19.99	28.26	56.00	-27.74	QP	
5	0.5299	-0.82	19.99	19.17	46.00	-26.83	AVG	
6	0.9180	-2.90	20.10	17.20	46.00	-28.80	AVG	
7	1.3779	-2.87	20.13	17.26	46.00	-28.74	AVG	
8	1.6060	7.89	20.13	28.02	56.00	-27.98	QP	
9	1.8060	-2.75	20.14	17.39	46.00	-28.61	AVG	
10	2.6180	7.42	20.15	27.57	56.00	-28.43	QP	
11	2.8420	-3.07	20.16	17.09	46.00	-28.91	AVG	
12	4.0780	8.10	20.18	28.28	56.00	-27.72	QP	

Conducted Emission Test Data

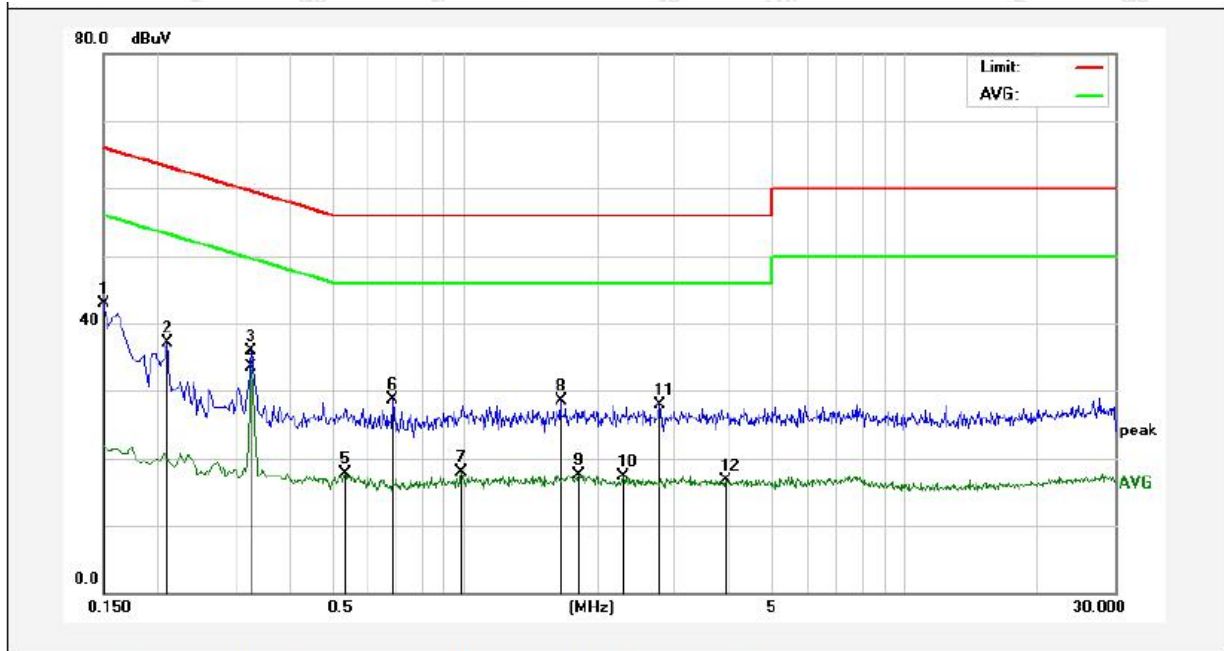
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.6°C Hum.: 52%
 Test model: A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	20.36	19.90	40.26	65.56	-25.30	QP	
2	0.3260	17.23	19.90	37.13	59.55	-22.42	QP	
3	0.3260	14.59	19.90	34.49	49.55	-15.06	AVG	
4	0.5220	-2.20	19.99	17.79	46.00	-28.21	AVG	
5	0.6340	8.66	20.02	28.68	56.00	-27.32	QP	
6	1.0420	-2.36	20.12	17.76	46.00	-28.24	AVG	
7	1.0859	8.54	20.12	28.66	56.00	-27.34	QP	
8	1.6540	8.41	20.13	28.54	56.00	-27.46	QP	
9	1.8380	-2.15	20.14	17.99	46.00	-28.01	AVG	
10	2.1340	8.30	20.14	28.44	56.00	-27.56	QP	
11	2.2860	-2.99	20.15	17.16	46.00	-28.84	AVG	
12	3.4300	-3.02	20.17	17.15	46.00	-28.85	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.6°C Hum.: 52%
 Test model: A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	23.02	19.90	42.92	65.99	-23.07	QP	
2	0.2100	17.16	19.90	37.06	63.20	-26.14	QP	
3	0.3260	16.02	19.90	35.92	59.55	-23.63	QP	
4	0.3260	13.52	19.90	33.42	49.55	-16.13	AVG	
5	0.5340	-2.20	19.99	17.79	46.00	-28.21	AVG	
6	0.6860	8.60	20.04	28.64	56.00	-27.36	QP	
7	0.9820	-2.26	20.12	17.86	46.00	-28.14	AVG	
8	1.6460	8.37	20.13	28.50	56.00	-27.50	QP	
9	1.8100	-2.64	20.14	17.50	46.00	-28.50	AVG	
10	2.2860	-2.77	20.15	17.38	46.00	-28.62	AVG	
11	2.7700	7.84	20.16	28.00	56.00	-28.00	QP	
12	3.9180	-3.39	20.18	16.79	46.00	-29.21	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
-		74.0	Peak	3	

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

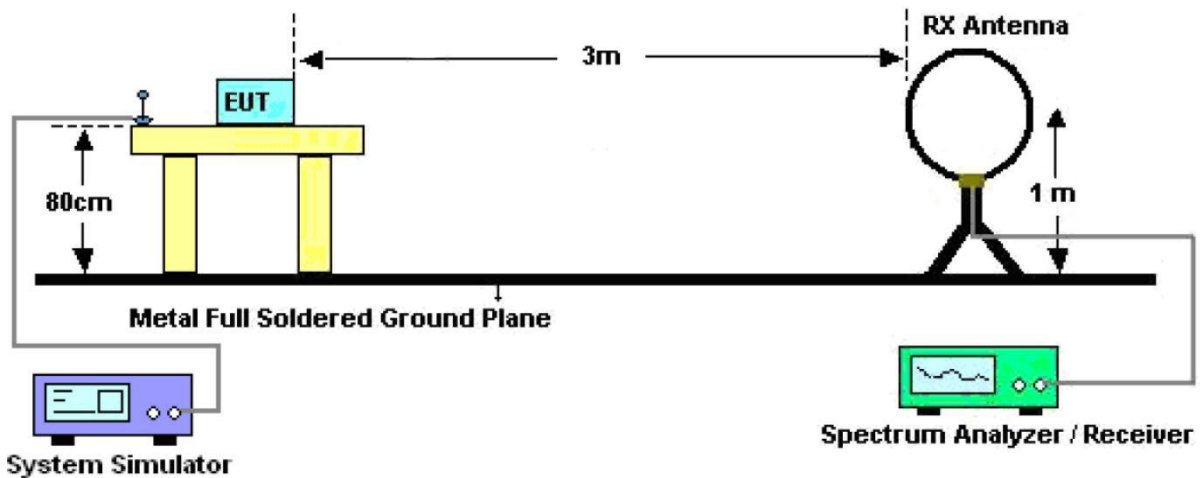


Figure 1. Below 30MHz

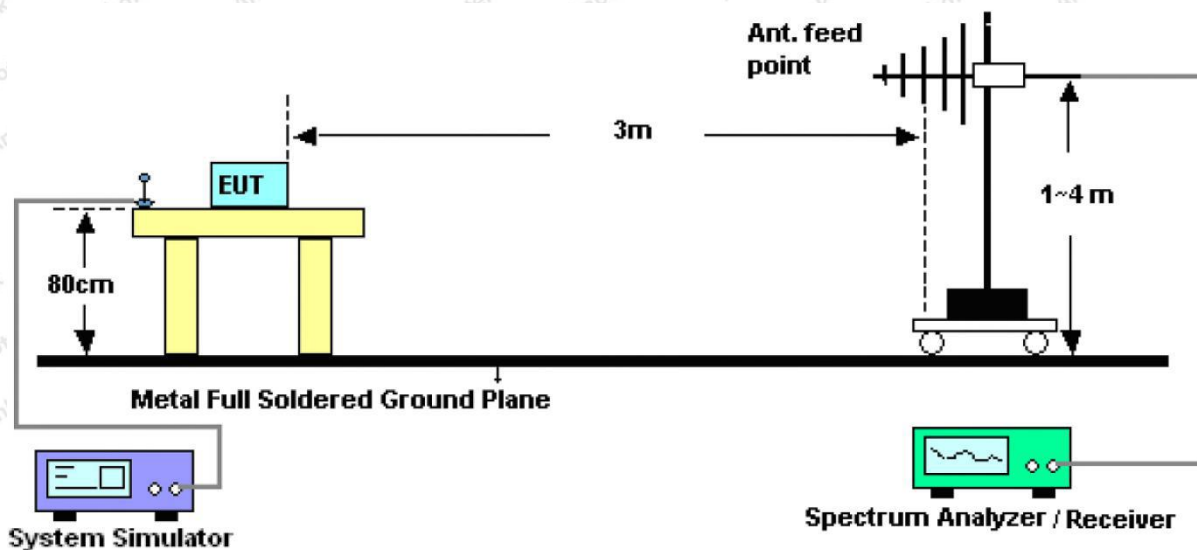


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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.

4.4. Test Data

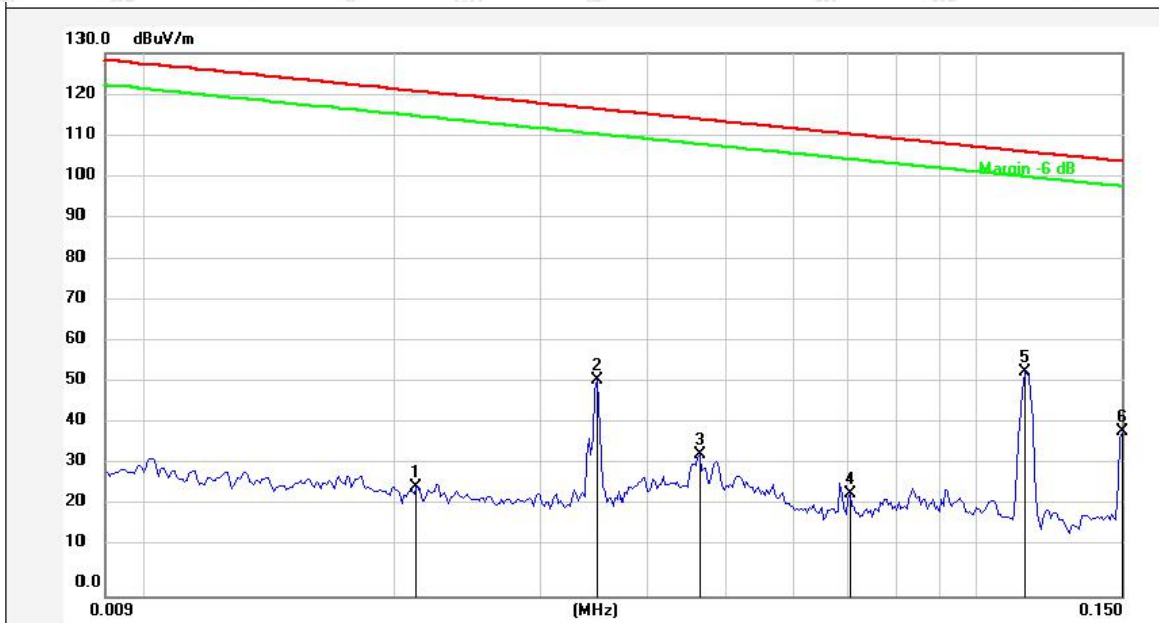
PASS

Note: The data is in TX mode, and this is the worst mode.

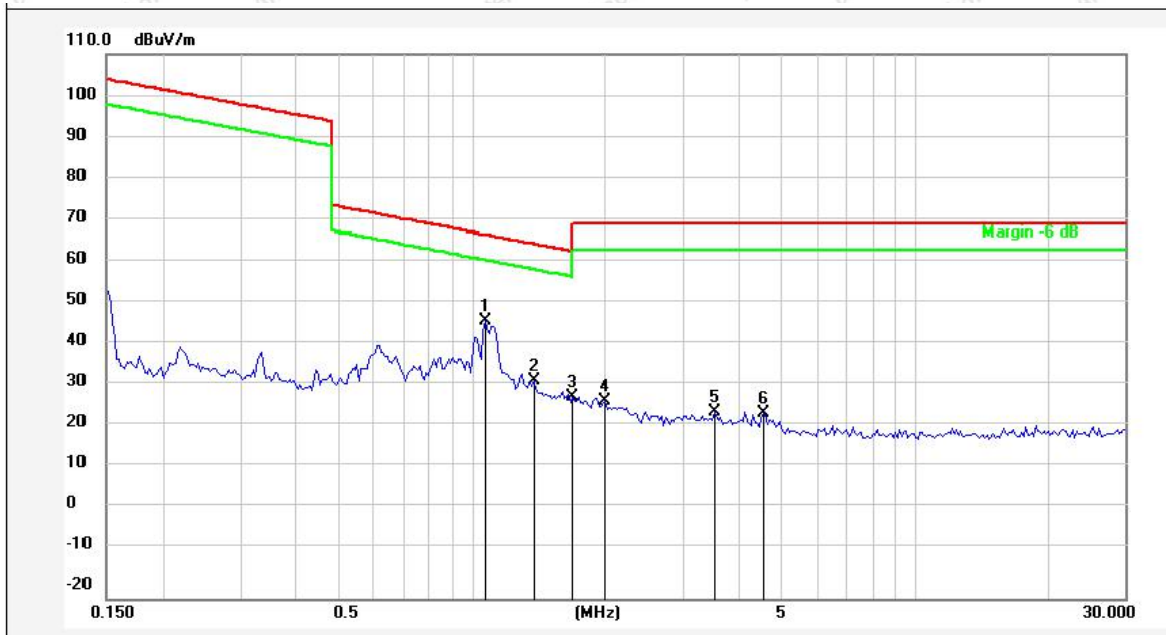
Test Results

(Between 9KHz – 30MHz)

Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	22.7°C/48%RH
Test Mode:	Mode 1	Distance:	3m
Test Model:	A8803		



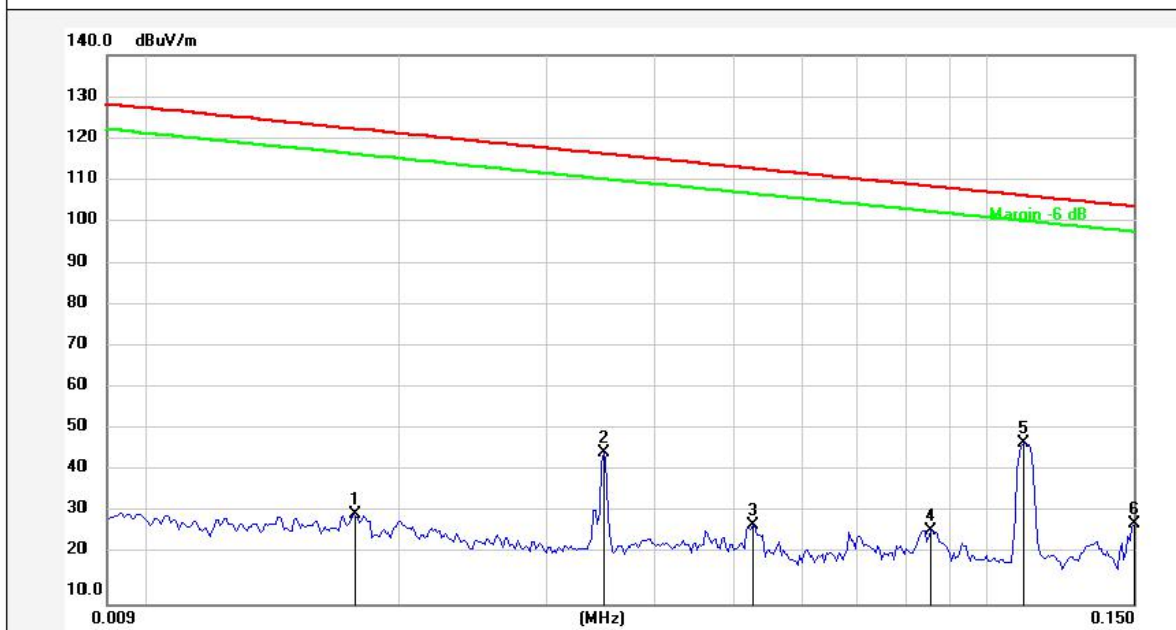
No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0212	26.28	0.03	26.31	120.91	-94.60	AV			
2	0.0350	51.83	0.03	51.86	116.58	-64.72	AV			
3	0.0463	33.86	0.03	33.89	114.17	-80.28	AV			
4	0.0704	24.42	0.03	24.45	110.55	-86.10	AV			
5	0.1145	53.67	0.03	53.70	106.35	-52.65	AV			
6	0.1500	39.41	0.04	39.45	104.02	-64.57	AV			



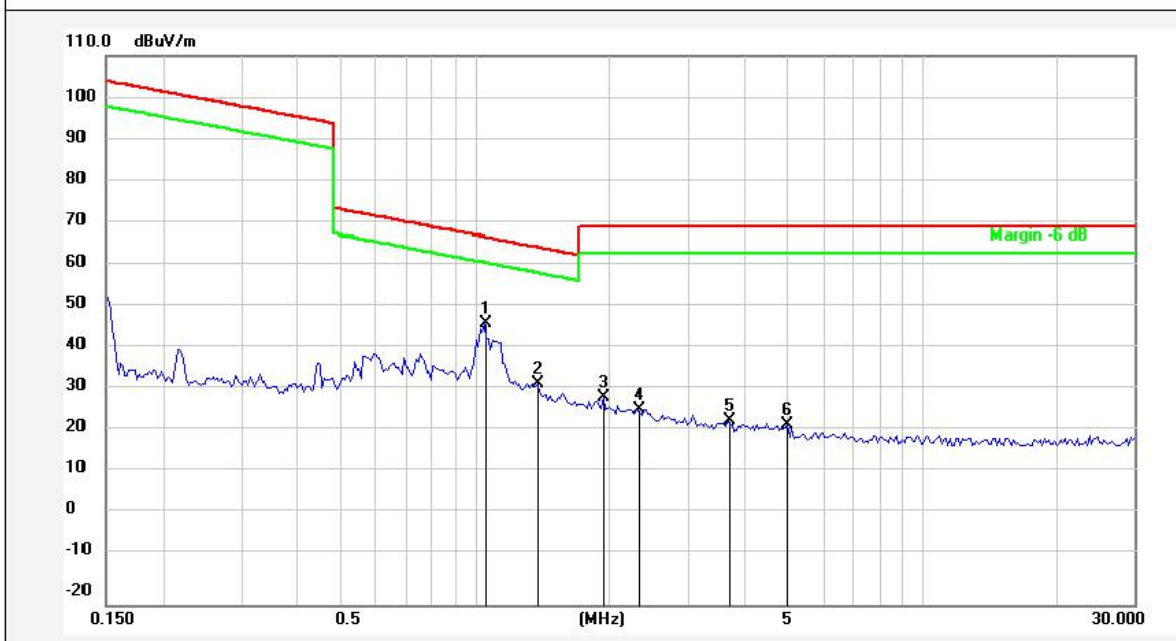
No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1.0766	46.46	0.09	46.55	66.98	-20.43	QP			
2	1.3884	32.08	0.11	32.19	64.78	-32.59	QP			
3	1.6976	28.14	0.12	28.26	63.04	-34.78	QP			
4	2.0118	27.08	0.13	27.21	69.50	-42.29	QP			
5	3.5278	24.57	0.17	24.74	69.50	-44.76	QP			
6	4.5494	24.16	0.20	24.36	69.50	-45.14	QP			

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

Standard: FCC PART15 C_3m **Power Source:** AC 120V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 22.7°C/48%RH
Test Mode: Mode 1 **Distance:** 3m
Test Model: A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0177	31.15	0.03	31.18	122.47	-91.29	AV			
2	0.0350	45.95	0.03	45.98	116.58	-70.60	AV			
3	0.0526	28.51	0.03	28.54	113.07	-84.53	AV			
4	0.0859	27.35	0.03	27.38	108.83	-81.45	AV			
5	0.1111	48.20	0.03	48.23	106.61	-58.38	AV			
6	0.1500	28.83	0.04	28.87	104.02	-75.15	AV			

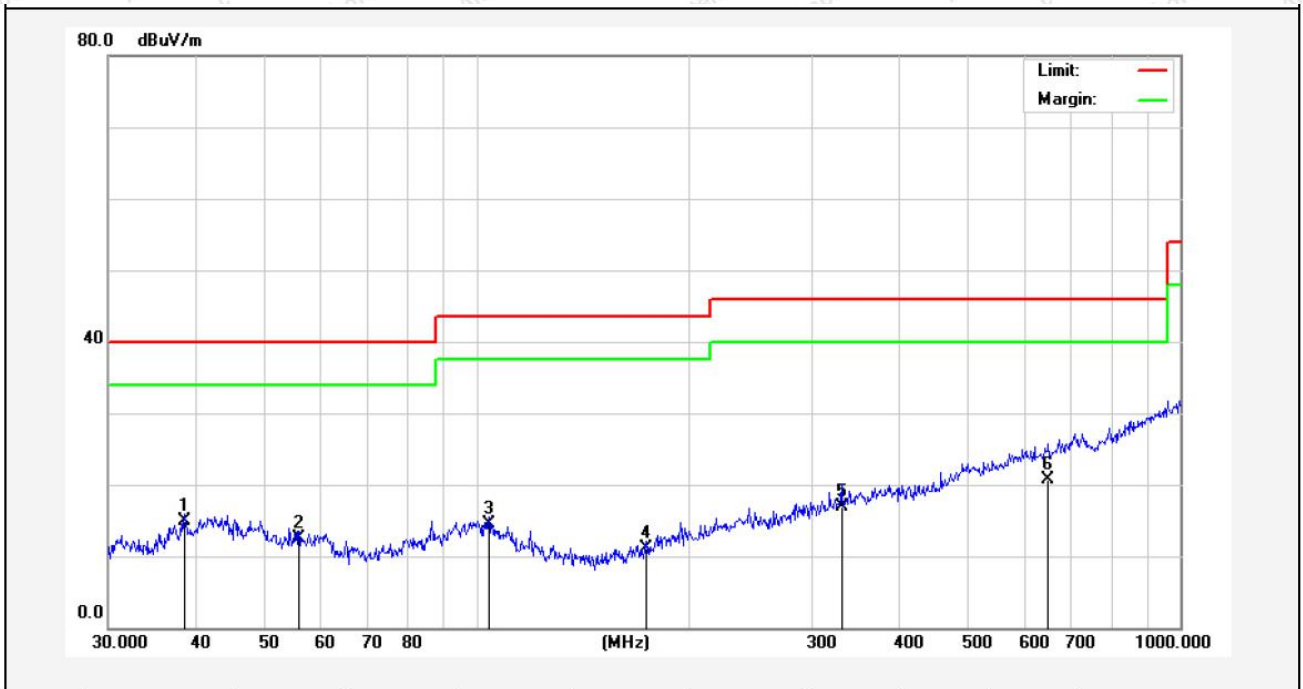


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1.0541	46.78	0.09	46.87	67.16	-20.29	QP			
2	1.3884	32.27	0.11	32.38	64.78	-32.40	QP			
3	1.9489	29.03	0.13	29.16	69.50	-40.34	QP			
4	2.3090	26.10	0.14	26.24	69.50	-43.26	QP			
5	3.6806	23.42	0.17	23.59	69.50	-45.91	QP			
6	5.0045	22.51	0.21	22.72	69.50	-46.78	QP			

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

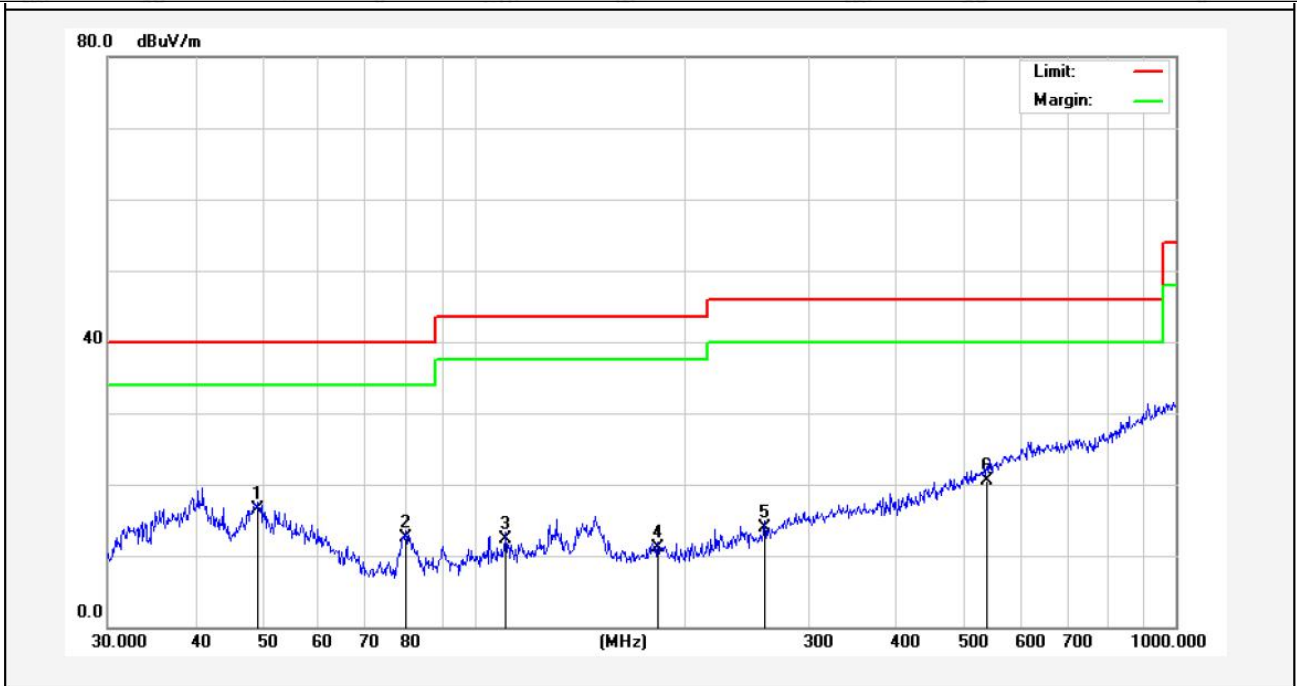
(Between 30MHz –1000 MHz)

Standard:	FCC PART15 C _3m	Polarization:	Horizontal
Test item:	Radiation Test	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	Mode 1	Temp.(C)/Hum.(%RH):	23.5°C/46%RH
Distance:	3m	Test Model:	A8803



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	38.4809	30.67	-15.82	14.85	40.00	-25.15	QP	100	0	
2	56.0007	29.04	-16.46	12.58	40.00	-27.42	QP	100	360	
3	104.1701	34.66	-20.14	14.52	43.50	-28.98	QP	100	0	
4	174.4241	32.25	-21.09	11.16	43.50	-32.34	QP	100	360	
5	330.1949	30.51	-13.51	17.00	46.00	-29.00	QP	100	0	
6	649.6597	27.44	-6.82	20.62	46.00	-25.38	QP	100	360	

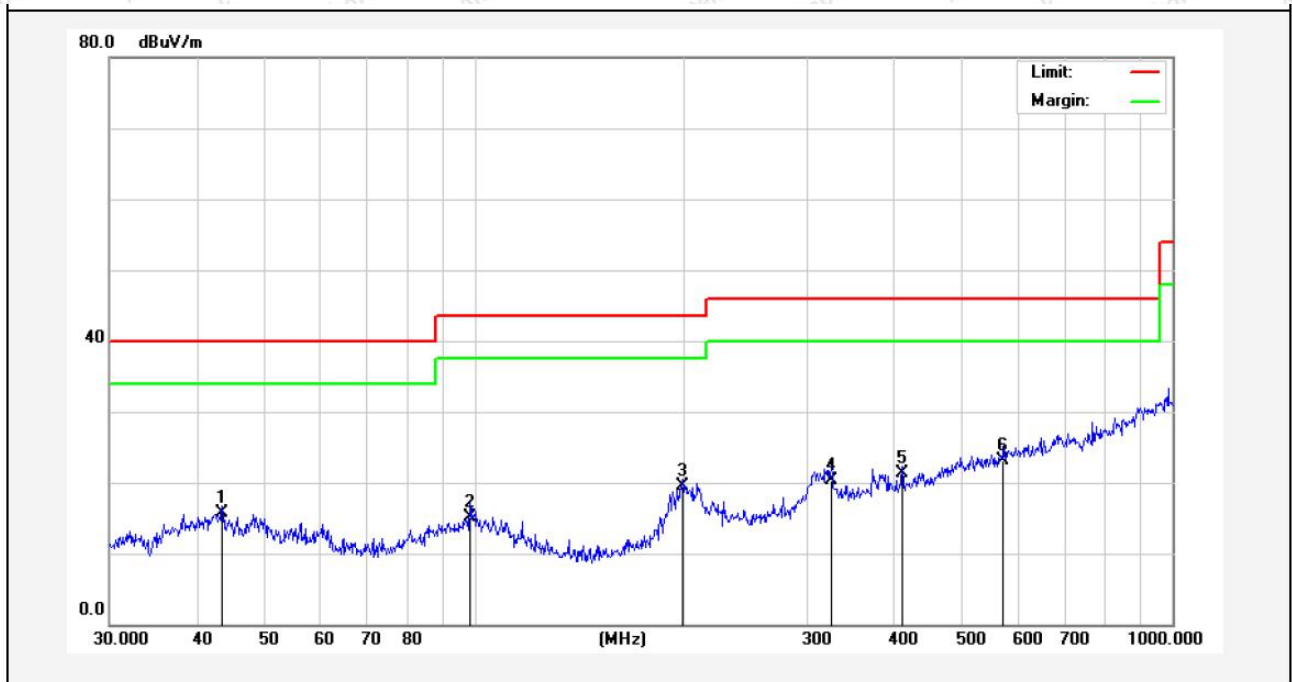
Standard:	FCC PART15 C _3m	Polarization:	Vertical
Test item:	Radiation Test	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	Mode 1	Temp.(C)/Hum.(%RH):	23.5°C/46%RH
Distance:	3m	Test Model:	A8803



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	49.0145	31.16	-14.70	16.46	40.00	-23.54	QP	100	0	
2	79.8003	30.27	-17.72	12.55	40.00	-27.45	QP	100	360	
3	110.9571	28.78	-16.39	12.39	43.50	-31.11	QP	100	0	
4	182.5592	29.24	-18.12	11.12	43.50	-32.38	QP	100	360	
5	259.2338	28.91	-14.92	13.99	46.00	-32.01	QP	100	0	
6	537.5891	28.75	-8.16	20.59	46.00	-25.41	QP	100	360	

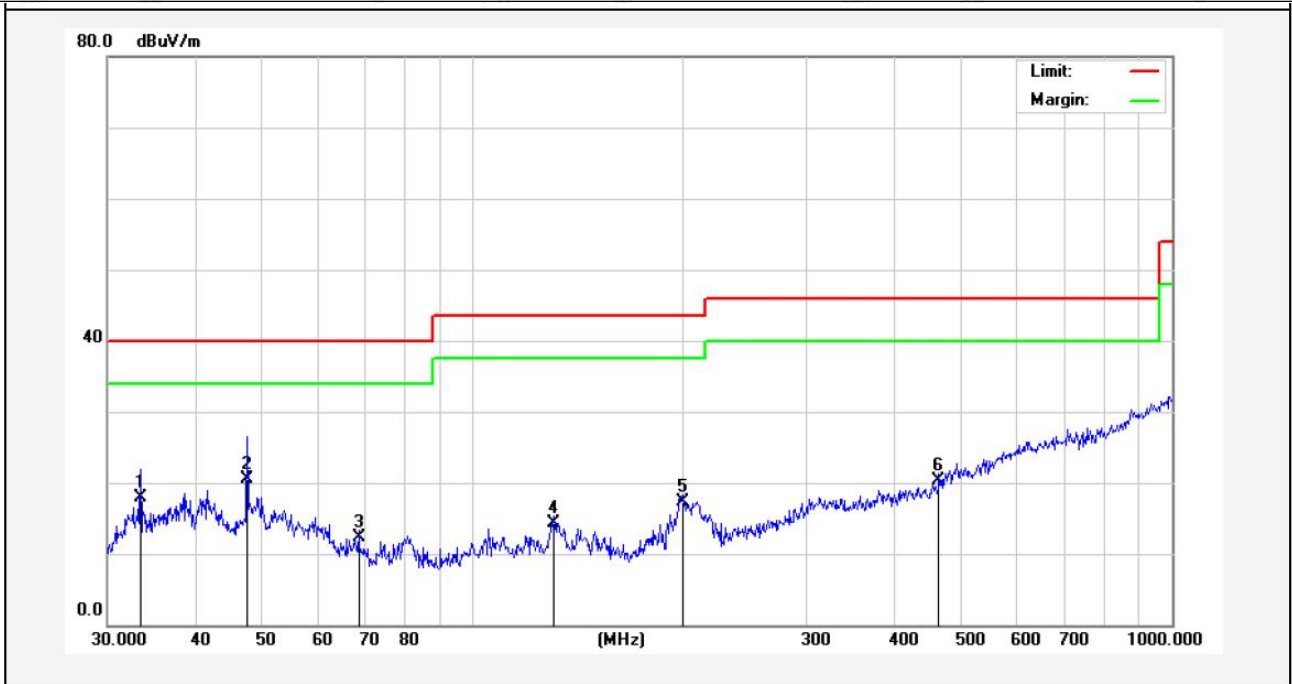
(Between 30MHz –1000 MHz)

Standard:	FCC PART15 C _3m	Polarization:	Horizontal
Test item:	Radiation Test	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	Mode 1	Temp.(C)/Hum.(%RH):	23.5°C/46%RH
Distance:	3m	Test Model:	A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	43.5057	30.23	-14.49	15.74	40.00	-24.26	QP	100	0	
2	98.4866	34.64	-19.52	15.12	43.50	-28.38	QP	100	360	
3	198.5880	39.38	-19.94	19.44	43.50	-24.06	QP	100	0	
4	324.4561	33.90	-13.66	20.24	46.00	-25.76	QP	100	360	
5	410.3825	34.02	-12.79	21.23	46.00	-24.77	QP	100	0	
6	572.6144	30.51	-7.45	23.06	46.00	-22.94	QP	100	360	

Standard:	FCC PART15 C _3m	Polarization:	Vertical
Test item:	Radiation Test	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	Mode 1	Temp.(C)/Hum.(%RH):	23.5°C/46%RH
Distance:	3m	Test Model:	A8804



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	33.4449	34.51	-16.56	17.95	40.00	-22.05	QP	100	0	
2	47.4918	34.93	-14.47	20.46	40.00	-19.54	QP	100	360	
3	68.6310	30.67	-18.39	12.28	40.00	-27.72	QP	100	0	
4	130.3789	33.71	-19.42	14.29	43.50	-29.21	QP	100	360	
5	199.2855	34.45	-17.24	17.21	43.50	-26.29	QP	100	0	
6	463.9696	30.01	-9.78	20.23	46.00	-25.77	QP	100	360	

5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 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.

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

----- End of Report -----