

FCC TEST REPORT

Client Name : Anker Innovations Limited

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

Product Name : Apple Watch Foldable Charging Pad USB-A cable
4ft/Apple Watch Foldable Charging Pad USB-C cable 4ft

Date : Oct. 10, 2020



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : Apple Watch Foldable Charging Pad USB-A cable 4ft/Apple Watch Foldable
Charging Pad USB-C cable 4ft
Model No. : A8801, A8802
Trade Mark : ANKER
Rating(s) : Input: DC 5V, 1A
Wireless output: 5W Max.
Test Standard(s) : **FCC Part15 Subpart C 2019, 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

Aug. 04, 2020

Date of Test

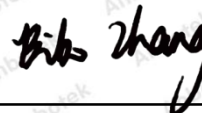
Aug. 04~19, 2020

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	:	Apple Watch Foldable Charging Pad USB-A cable 4ft/Apple Watch Foldable Charging Pad USB-C cable 4ft	
Model No.	:	A8801, A8802 (Note: All samples are the same except the charging port, so we prepare "A8801" for test only.)	
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
Apple Watch	:	Apple Watch

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	Full load, wireless charger module

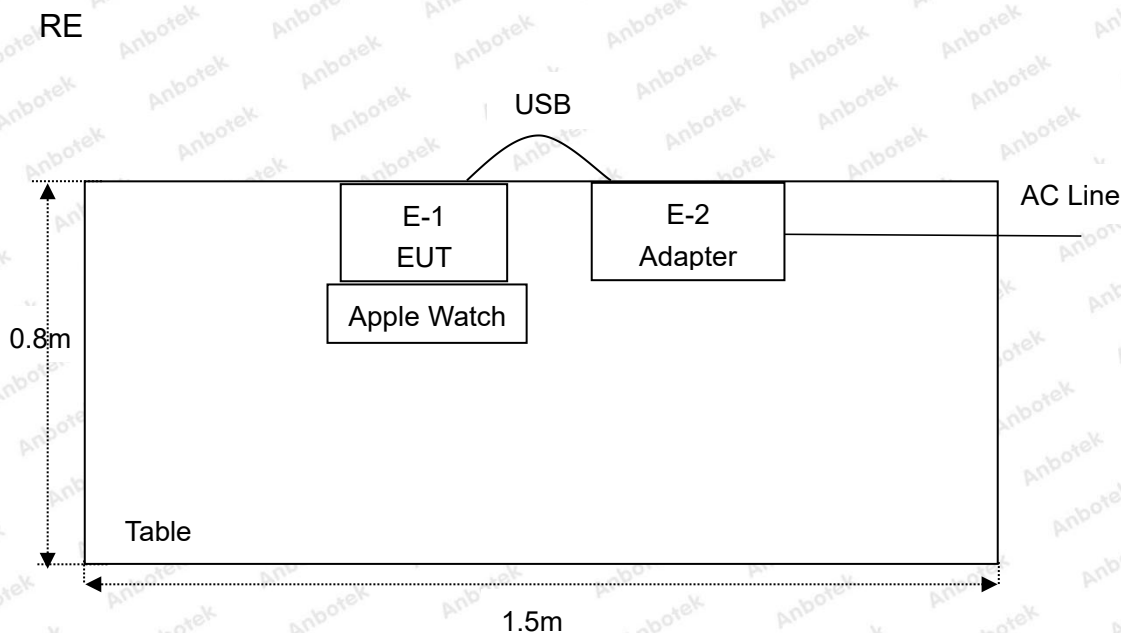
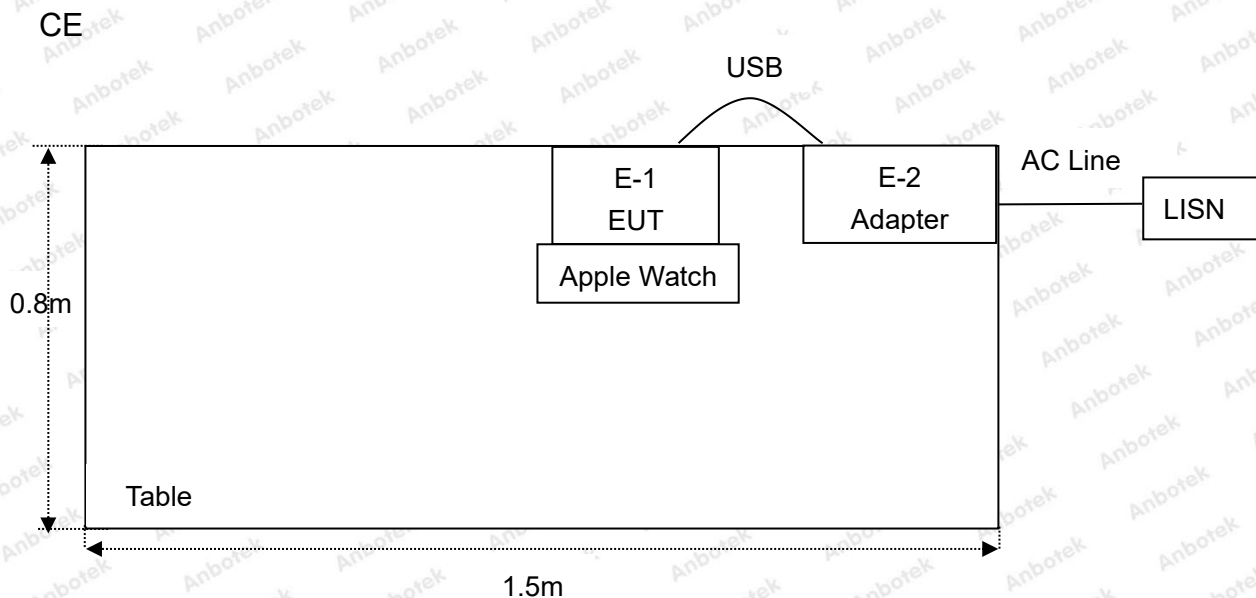
For Conducted Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

For Radiated Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

Note: (1)Test channel is 0.1272MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load) 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	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year
9.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 01, 2019	1 Year
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	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 27, 2019.

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, March 07, 2019.

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

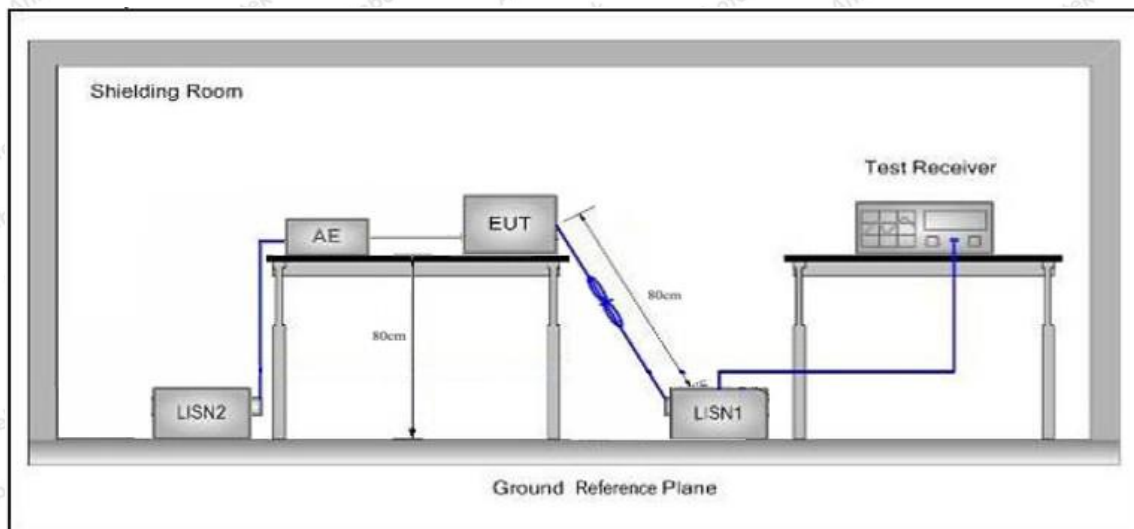
3. Conducted Emission Test

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.

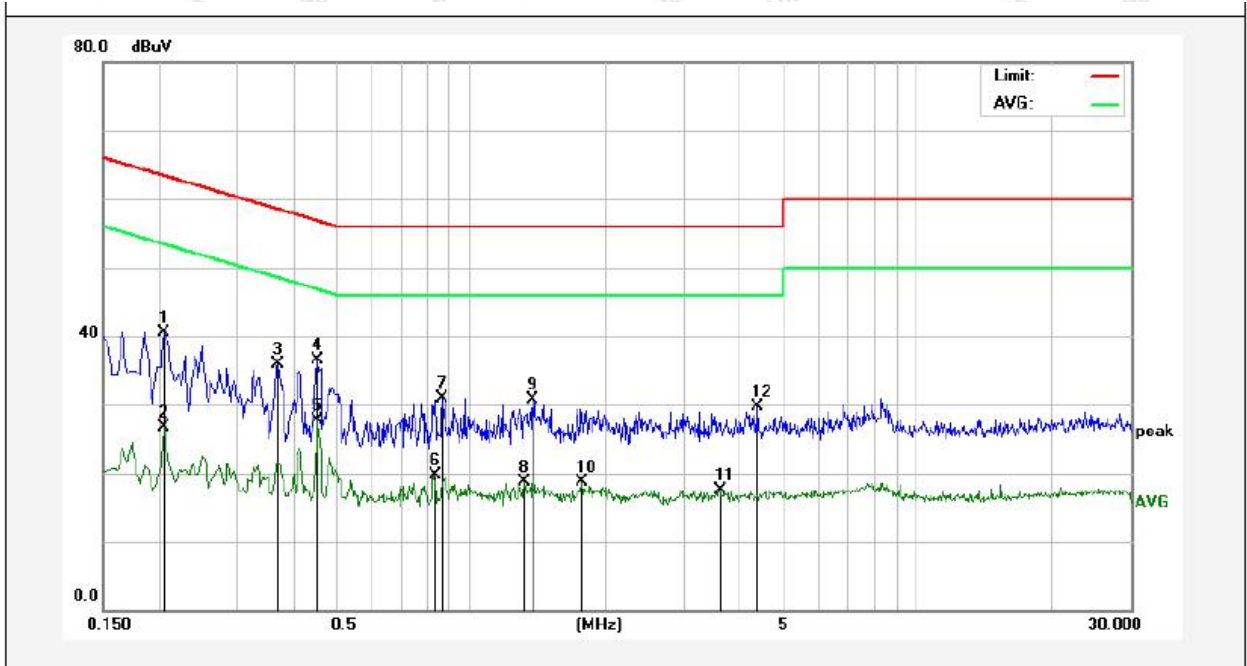
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

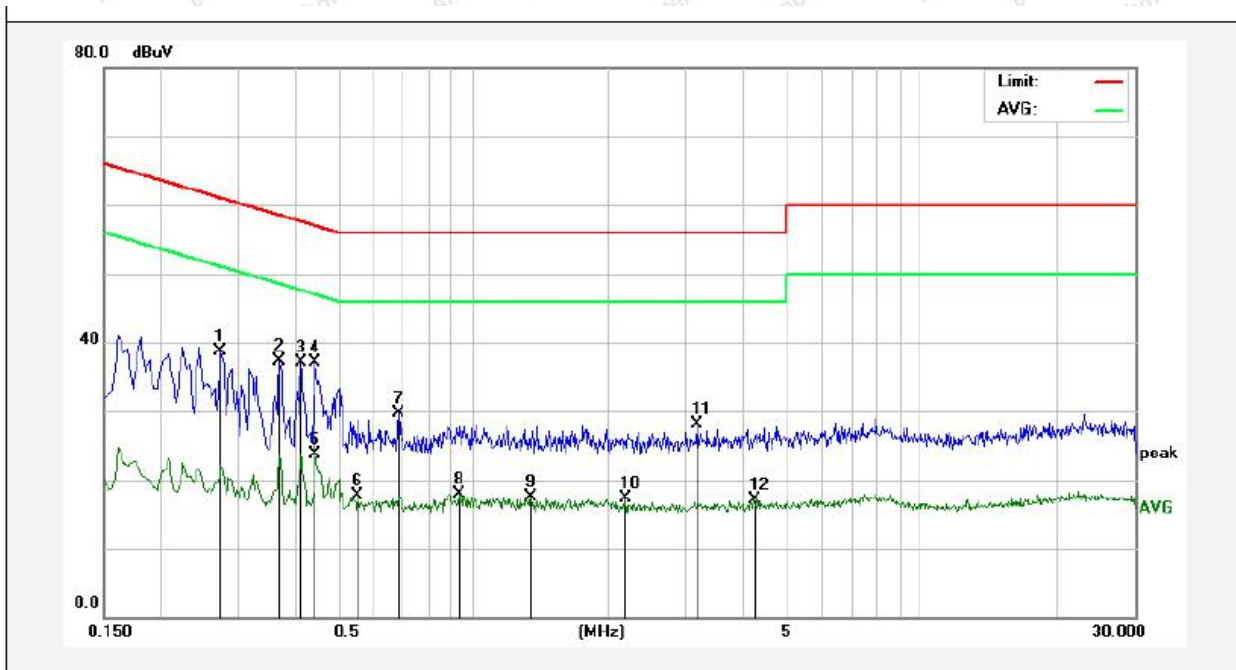
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8801(USB Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2060	20.54	19.90	40.44	63.36	-22.92	QP	
2	0.2060	6.78	19.90	26.68	53.36	-26.68	AVG	
3	0.3700	15.99	19.92	35.91	58.50	-22.59	QP	
4	0.4540	16.52	19.96	36.48	56.80	-20.32	QP	
5	0.4540	7.68	19.96	27.64	46.80	-19.16	AVG	
6	0.8300	-0.37	20.07	19.70	46.00	-26.30	AVG	
7	0.8620	10.91	20.08	30.99	56.00	-25.01	QP	
8	1.3180	-1.45	20.13	18.68	46.00	-27.32	AVG	
9	1.3779	10.63	20.13	30.76	56.00	-25.24	QP	
10	1.7780	-1.43	20.14	18.71	46.00	-27.29	AVG	
11	3.5980	-2.58	20.17	17.59	46.00	-28.41	AVG	
12	4.4060	9.56	20.19	29.75	56.00	-26.25	QP	

Conducted Emission Test Data

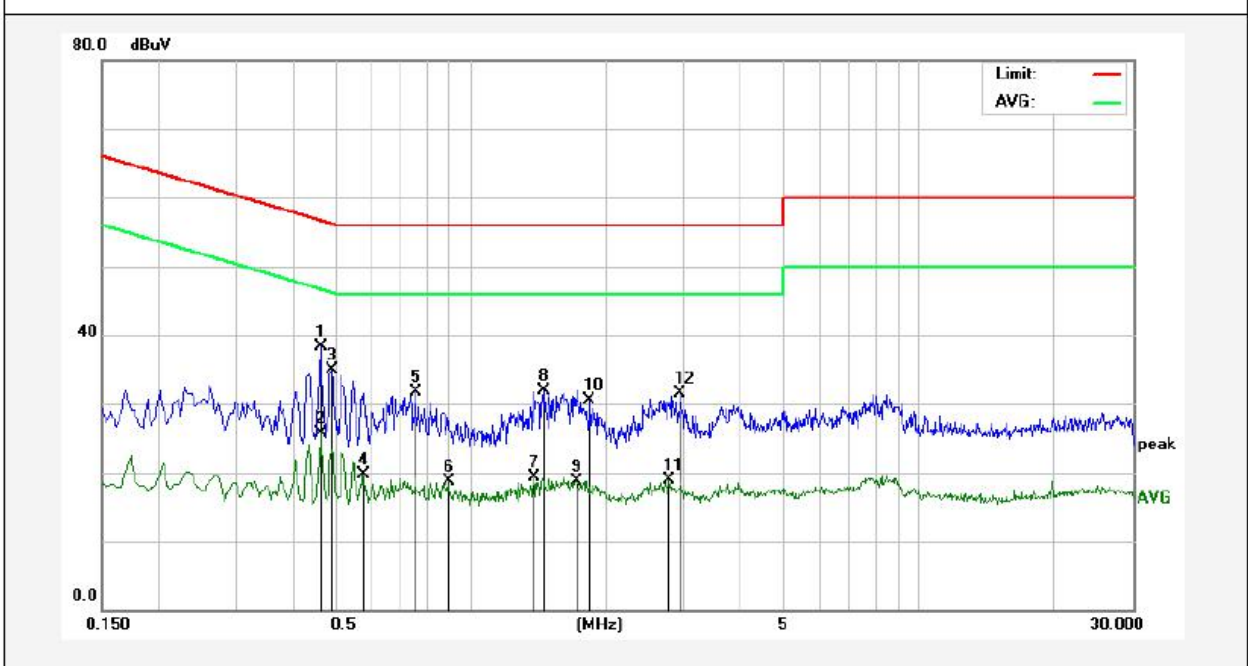
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8801(USB Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2740	18.83	19.89	38.72	60.99	-22.27	QP	
2	0.3700	17.46	19.92	37.38	58.50	-21.12	QP	
3	0.4140	17.25	19.94	37.19	57.57	-20.38	QP	
4	0.4460	17.13	19.96	37.09	56.95	-19.86	QP	
5	0.4460	3.65	19.96	23.61	46.95	-23.34	AVG	
6	0.5540	-2.26	20.00	17.74	46.00	-28.26	AVG	
7	0.6860	9.61	20.04	29.65	56.00	-26.35	QP	
8	0.9300	-2.18	20.10	17.92	46.00	-28.08	AVG	
9	1.3460	-2.62	20.13	17.51	46.00	-28.49	AVG	
10	2.1980	-2.81	20.14	17.33	46.00	-28.67	AVG	
11	3.1700	7.96	20.16	28.12	56.00	-27.88	QP	
12	4.2420	-3.11	20.19	17.08	46.00	-28.92	AVG	

Conducted Emission Test Data

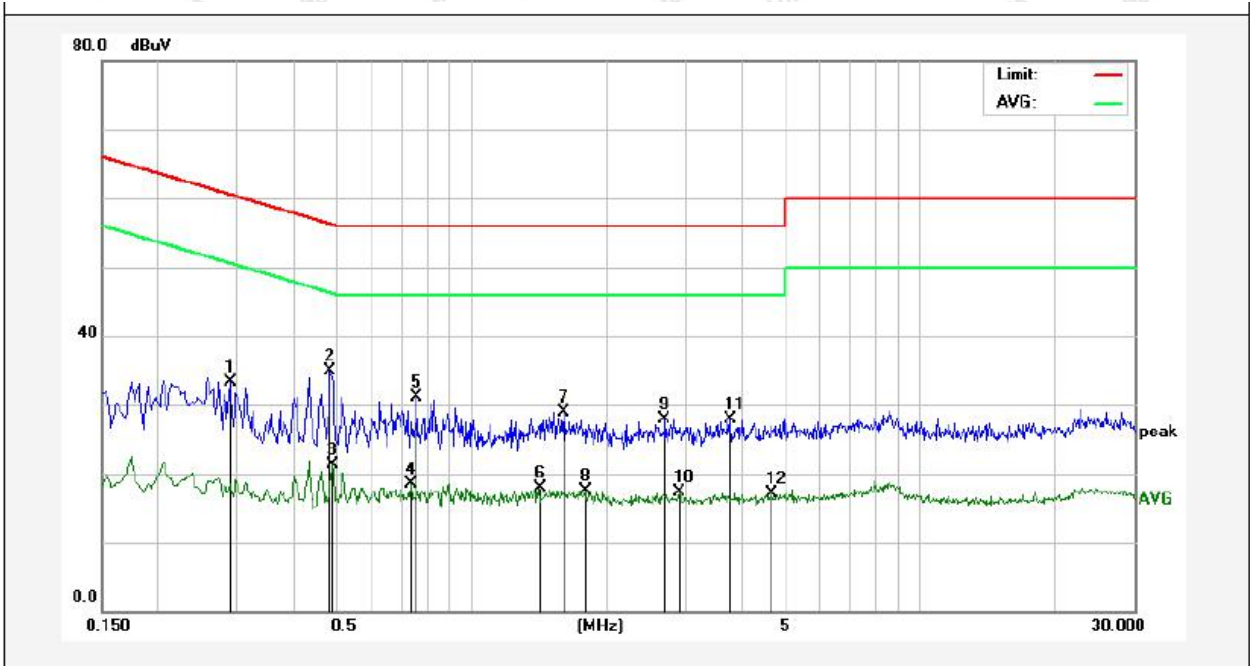
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8801(USB Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4620	18.42	19.96	38.38	56.66	-18.28	QP	
2	0.4620	5.65	19.96	25.61	46.66	-21.05	AVG	
3	0.4900	14.84	19.98	34.82	56.17	-21.35	QP	
4	0.5740	-0.28	20.00	19.72	46.00	-26.28	AVG	
5	0.7539	11.63	20.05	31.68	56.00	-24.32	QP	
6	0.8940	-1.39	20.09	18.70	46.00	-27.30	AVG	
7	1.3860	-0.76	20.13	19.37	46.00	-26.63	AVG	
8	1.4620	11.79	20.13	31.92	56.00	-24.08	QP	
9	1.7100	-1.34	20.13	18.79	46.00	-27.21	AVG	
10	1.8460	10.28	20.14	30.42	56.00	-25.58	QP	
11	2.7740	-1.32	20.16	18.84	46.00	-27.16	AVG	
12	2.9380	11.31	20.16	31.47	56.00	-24.53	QP	

Conducted Emission Test Data

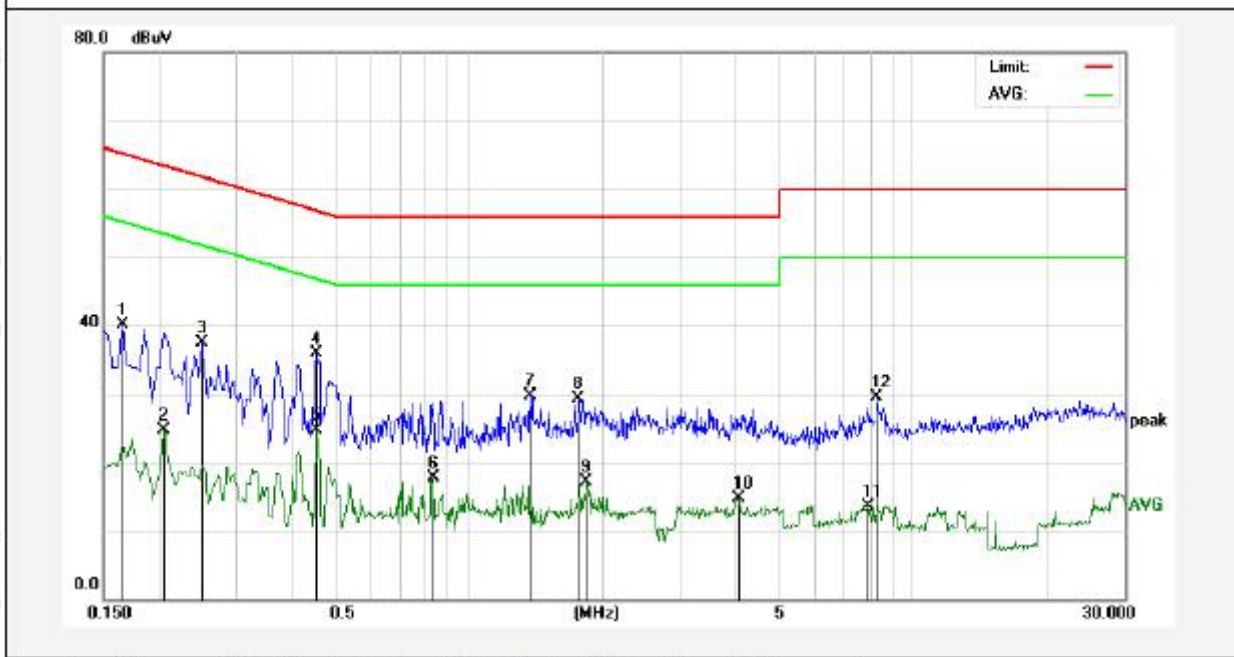
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8801(USB Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2900	13.39	19.89	33.28	60.52	-27.24	QP	
2	0.4860	15.01	19.97	34.98	56.24	-21.26	QP	
3	0.4900	1.37	19.98	21.35	46.17	-24.82	AVG	
4	0.7340	-1.53	20.05	18.52	46.00	-27.48	AVG	
5	0.7580	11.08	20.06	31.14	56.00	-24.86	QP	
6	1.4140	-2.14	20.13	17.99	46.00	-28.01	AVG	
7	1.6019	8.74	20.13	28.87	56.00	-27.13	QP	
8	1.7940	-2.65	20.14	17.49	46.00	-28.51	AVG	
9	2.6980	7.84	20.15	27.99	56.00	-28.01	QP	
10	2.9060	-2.77	20.16	17.39	46.00	-28.61	AVG	
11	3.7780	7.69	20.18	27.87	56.00	-28.13	QP	
12	4.6940	-3.03	20.20	17.17	46.00	-28.83	AVG	

Conducted Emission Test Data

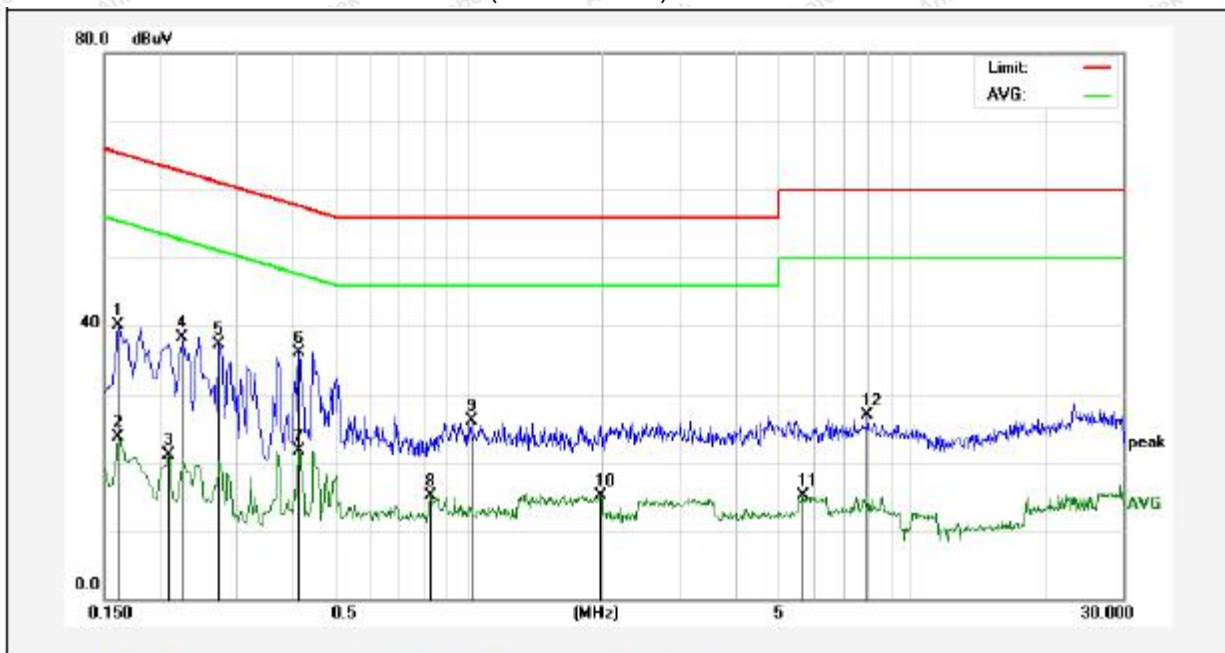
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8802(TYPE-C Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	20.12	19.90	40.02	65.15	-25.13	QP	
2	0.2058	4.78	19.90	24.68	53.37	-28.69	AVG	
3	0.2500	17.55	19.89	37.44	61.75	-24.31	QP	
4	0.4540	16.02	19.96	35.98	56.80	-20.82	QP	
5	0.4540	4.68	19.96	24.64	46.80	-22.16	AVG	
6	0.8298	-2.37	20.07	17.70	46.00	-28.30	AVG	
7	1.3778	9.63	20.13	29.76	56.00	-26.24	QP	
8	1.7700	9.07	20.14	29.21	56.00	-26.79	QP	
9	1.8420	-3.02	20.14	17.12	46.00	-28.88	AVG	
10	4.0617	-5.48	20.18	14.70	46.00	-31.30	AVG	
11	7.9138	-6.74	20.28	13.54	50.00	-36.46	AVG	
12	8.3018	9.19	20.29	29.48	60.00	-30.52	QP	

Conducted Emission Test Data

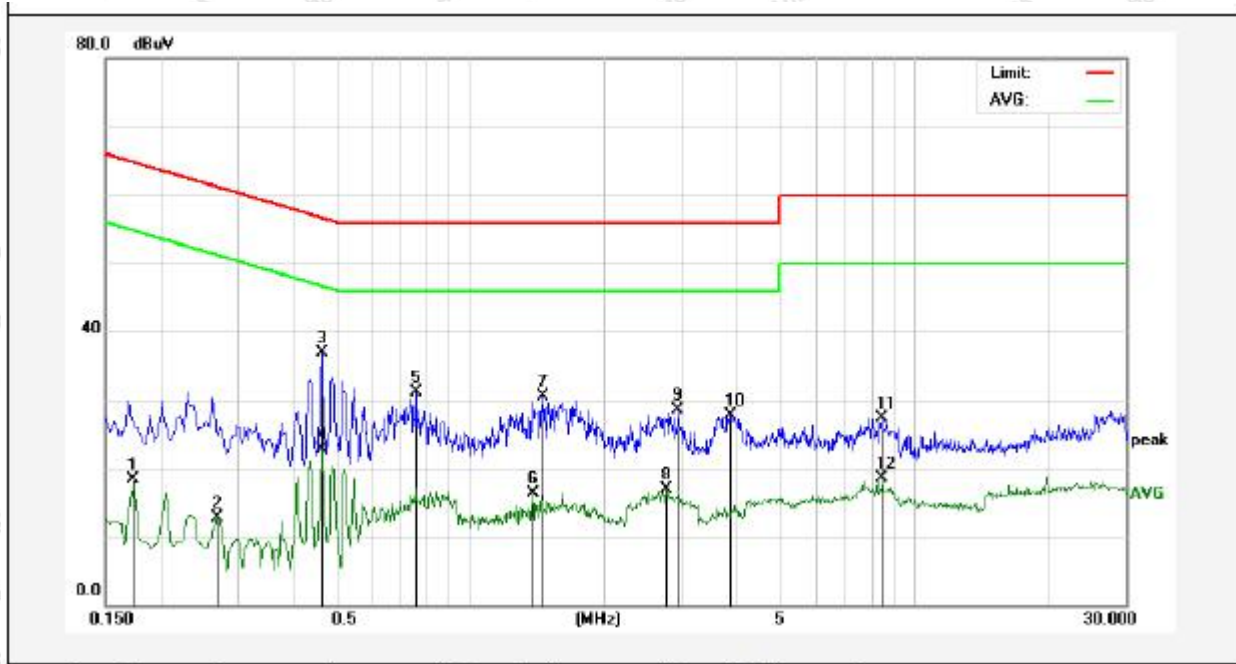
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8802(TYPE-C Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	20.23	19.90	40.13	65.36	-25.23	QP	
2	0.1620	3.74	19.90	23.64	55.36	-31.72	AVG	
3	0.2099	1.28	19.90	21.18	53.21	-32.03	AVG	
4	0.2260	18.49	19.89	38.38	62.59	-24.21	QP	
5	0.2740	17.33	19.89	37.22	60.99	-23.77	QP	
6	0.4138	16.25	19.94	36.19	57.57	-21.38	QP	
7	0.4138	1.85	19.94	21.79	47.57	-25.78	AVG	
8	0.8218	-5.04	20.07	15.03	46.00	-30.97	AVG	
9	1.0140	5.89	20.12	26.01	56.00	-29.99	QP	
10	1.9858	-5.03	20.14	15.11	46.00	-30.89	AVG	
11	5.7019	-5.05	20.23	15.18	50.00	-34.82	AVG	
12	7.9659	6.57	20.29	26.86	60.00	-33.14	QP	

Conducted Emission Test Data

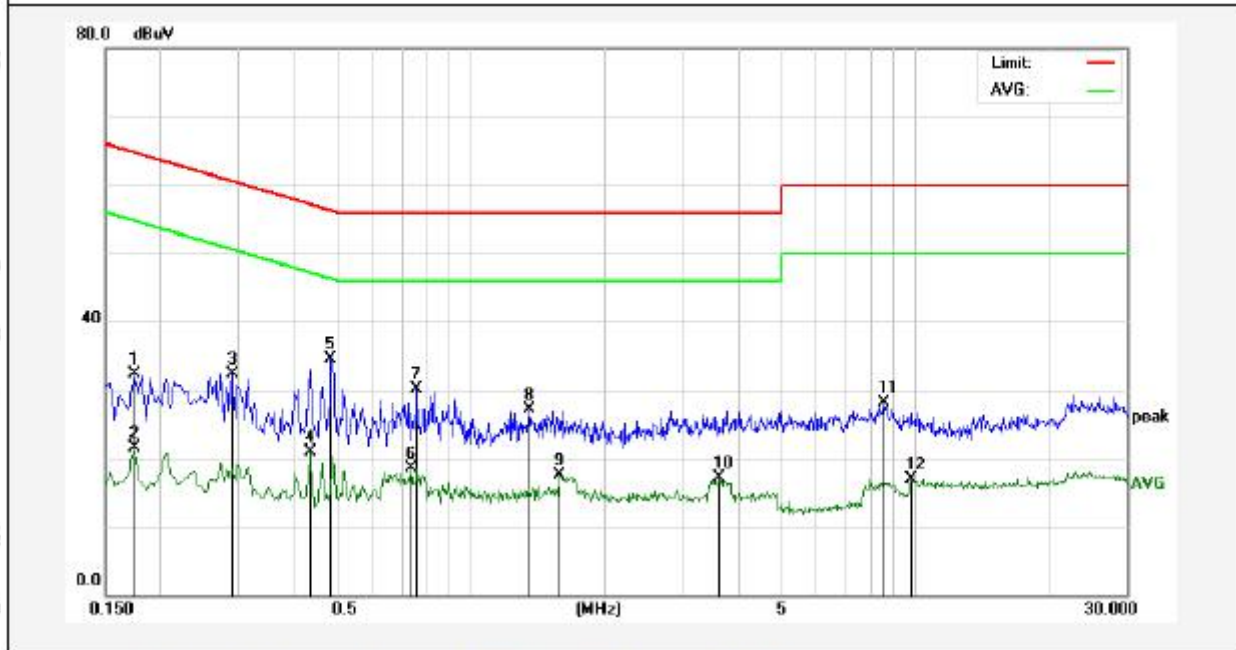
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 23.5°C Hum.: 55%
 Note: For A8802(TYPE-C Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1737	-1.50	19.90	18.40	54.78	-36.38	AVG	
2	0.2700	-7.26	19.89	12.63	51.12	-38.49	AVG	
3	0.4620	16.92	19.96	36.88	56.66	-19.78	QP	
4	0.4620	2.65	19.96	22.61	46.66	-24.05	AVG	
5	0.7539	11.13	20.05	31.18	56.00	-24.82	QP	
6	1.3858	-3.76	20.13	16.37	46.00	-29.63	AVG	
7	1.4618	10.29	20.13	30.42	56.00	-25.58	QP	
8	2.7740	-3.32	20.16	16.84	46.00	-29.16	AVG	
9	2.9380	8.31	20.16	28.47	56.00	-27.53	QP	
10	3.8500	7.45	20.18	27.63	56.00	-28.37	QP	
11	8.4458	7.09	20.30	27.39	60.00	-32.61	QP	
12	8.4859	-1.84	20.30	18.46	50.00	-31.54	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.: 23.5°C Hum.: 55%
 Note: For A8802(TYPE-C Port)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1737	12.42	19.90	32.32	64.78	-32.46	QP	
2	0.1737	1.57	19.90	21.47	54.78	-33.31	AVG	
3	0.2898	12.39	19.89	32.28	60.53	-28.25	QP	
4	0.4339	0.88	19.95	20.83	47.18	-26.35	AVG	
5	0.4858	14.51	19.97	34.48	56.24	-21.76	QP	
6	0.7338	-1.53	20.05	18.52	46.00	-27.48	AVG	
7	0.7580	10.08	20.06	30.14	56.00	-25.86	QP	
8	1.3580	6.99	20.13	27.12	56.00	-28.88	QP	
9	1.5900	-2.68	20.13	17.45	46.00	-28.55	AVG	
10	3.6299	-3.16	20.17	17.01	46.00	-28.99	AVG	
11	8.5379	7.78	20.30	28.08	60.00	-31.92	QP	
12	9.7939	-3.41	20.33	16.92	50.00	-33.08	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

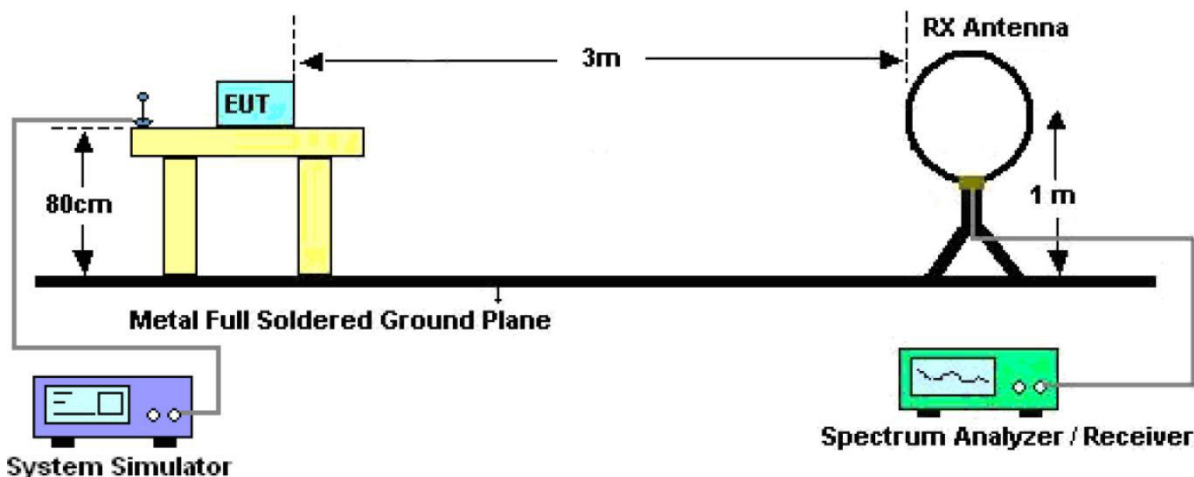


Figure 1. Below 30MHz

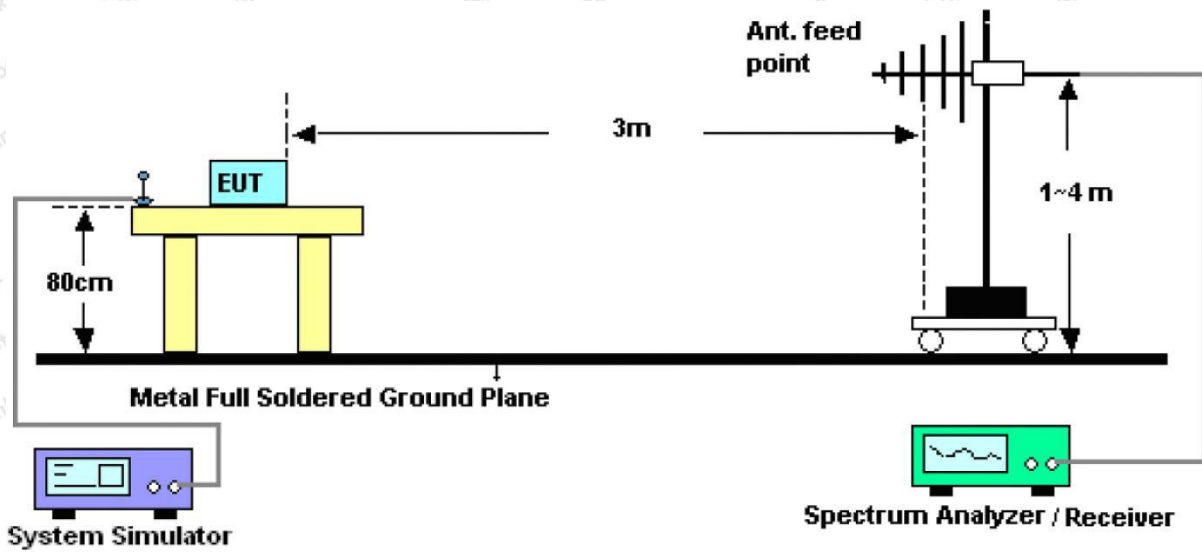


Figure 2. 30MHz to 1GHz

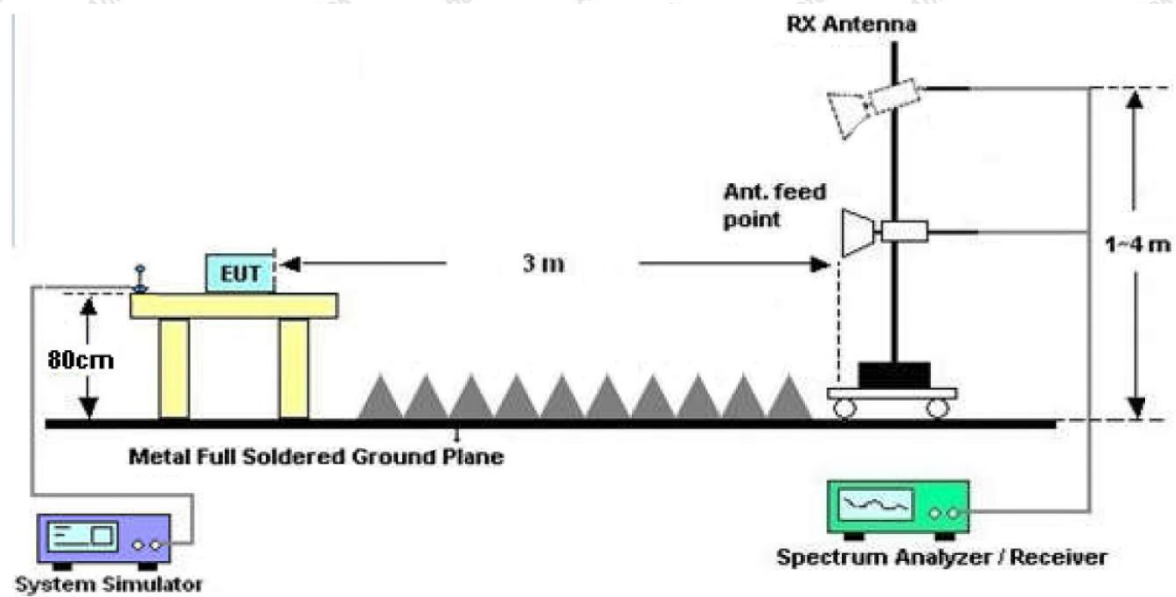


Figure 3. Above 1 GHz

4.3. Test Procedure

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

For above 1GHz: The EUT is placed on a turntable, which is 1.5m 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

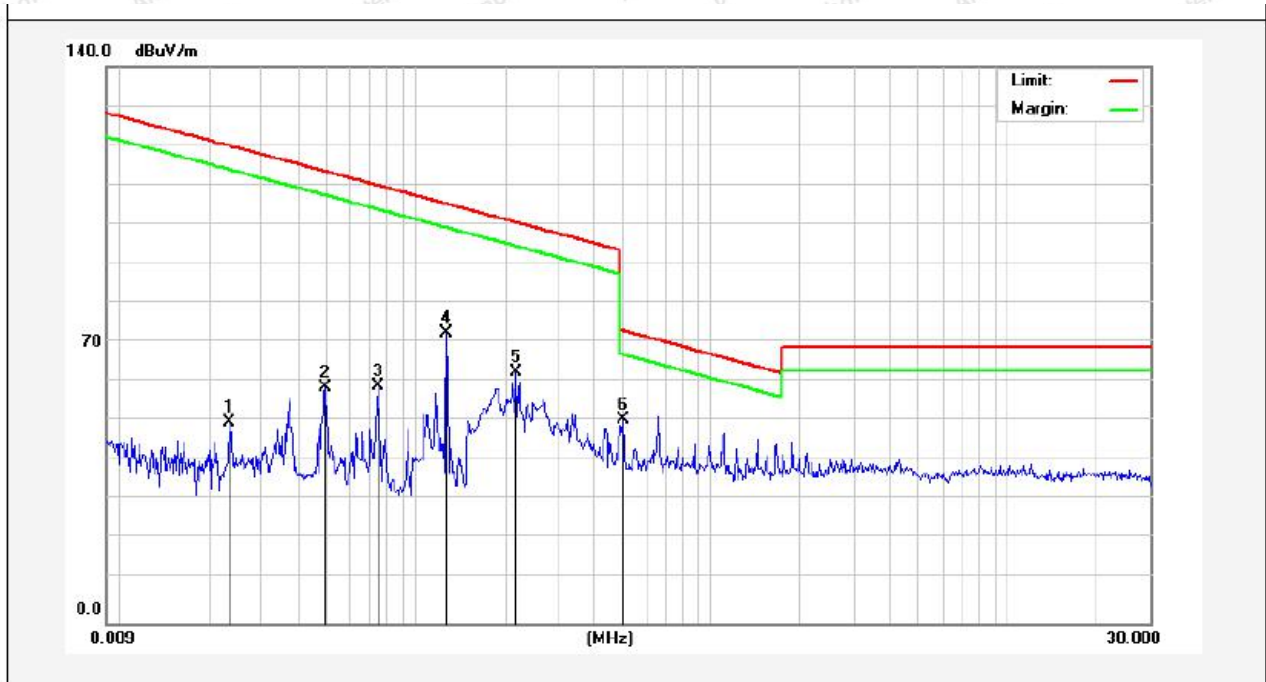
PASS

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

Test Results

(Between 9KHz – 30MHz)

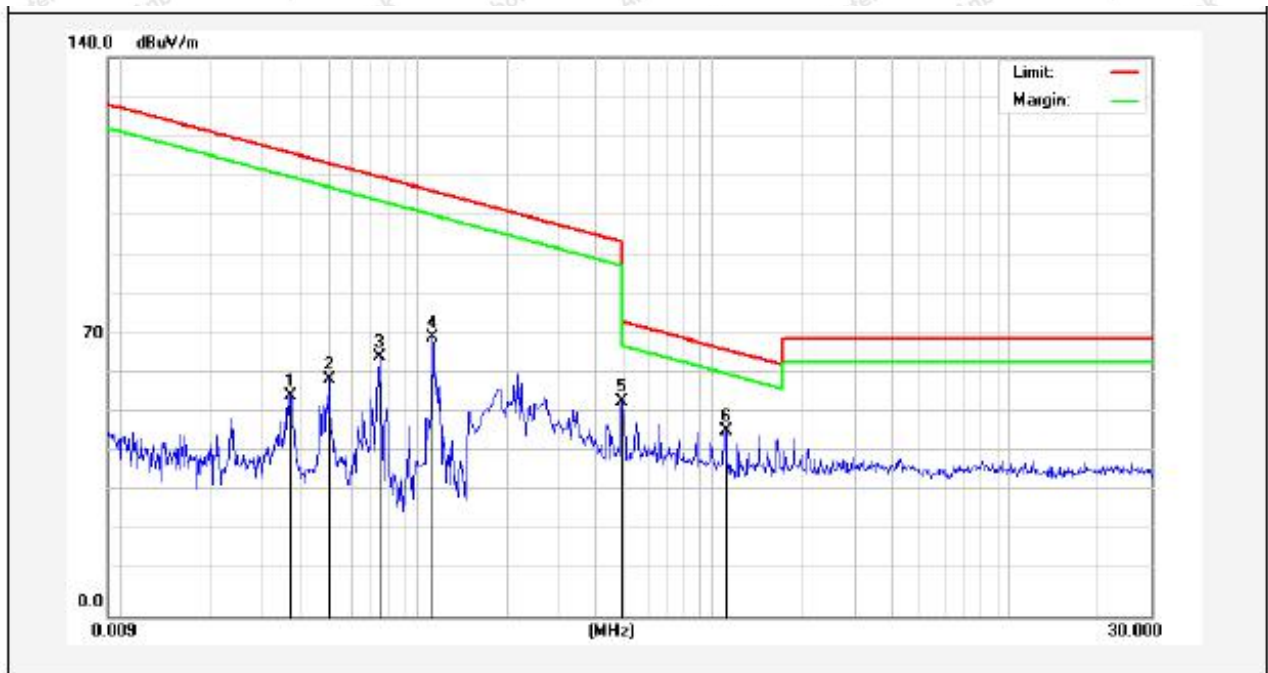
Job No.: 18220WC00111501
Standard: FCC PART15 C_3m **Power Source:** AC 120V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 23.2°C/50%RH
Test Mode: Mode 1 **Distance:** 3m
Note: For A8801(USB Port)



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree
									(dge)
0.0234	39.42	19.28	2.53	0	61.23	140.07	-78.84	Peak	129
0.0234	28.67	19.28	2.53	0	50.48	120.07	-69.59	AV	129
0.0495	50.40	19.38	2.55	0	72.33	133.60	-61.27	Peak	246
0.0495	47.47	19.38	2.55	0	69.40	113.60	-44.20	AV	246
0.0747	48.23	19.38	2.55	0	70.16	130.05	-59.89	Peak	85
0.0747	37.58	19.38	2.55	0	59.51	110.05	-50.54	AV	85
0.1272	61.40	19.38	2.55	0	83.33	125.45	-42.12	Peak	306
0.1272	51.08	19.38	2.55	0	73.01	105.45	-32.44	AV	306
0.2179	49.08	19.50	2.64	0	71.22	120.80	-49.58	Peak	41
0.2318	41.05	19.50	2.64	0	63.19	100.80	-37.61	AV	41
0.5020	29.05	19.50	2.64	0	51.19	73.59	-22.40	QP	117

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.

Job No.: 18220WC00111501
Standard: FCC PART15 C _3m
Power Source: AC 120V, 60Hz for adapter
Test item: Radiation Test
Temp.(C)/Hum.(%RH): 23.2°C/50%RH
Test Mode: Mode 1
Distance: 3m
Note: For A8802(TYPE-C Port)

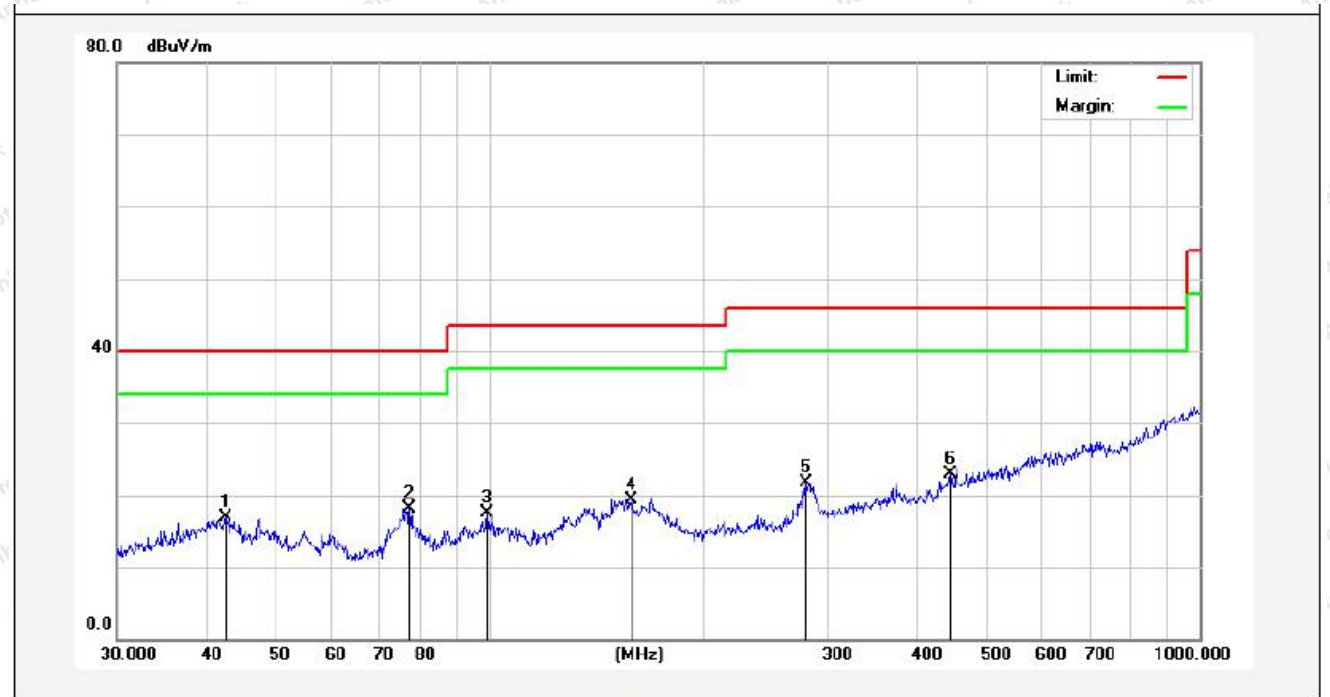


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0374	45.11	19.28	2.53	0	66.92	136.02	-69.10	Peak	146
0.0374	33.43	19.28	2.53	0	55.24	116.02	-60.78	AV	146
0.0502	50.40	19.38	2.55	0	72.33	133.48	-61.15	Peak	352
0.0502	37.28	19.38	2.55	0	59.21	113.48	-54.27	AV	352
0.0747	51.66	19.38	2.55	0	73.59	130.05	-56.46	Peak	67
0.0747	43.08	19.38	2.55	0	65.01	130.05	-65.04	AV	67
0.1269	58.29	19.38	2.55	0	80.22	125.88	-45.66	Peak	339
0.1269	47.94	19.38	2.55	0	69.87	105.88	-36.01	AV	339
0.4899	43.03	19.50	2.64	0	65.17	93.80	-28.63	Peak	285
0.4899	31.75	19.50	2.64	0	53.89	73.80	-19.91	AV	285
1.0980	24.11	19.50	2.64	0	46.25	66.79	-20.54	QP	57

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.

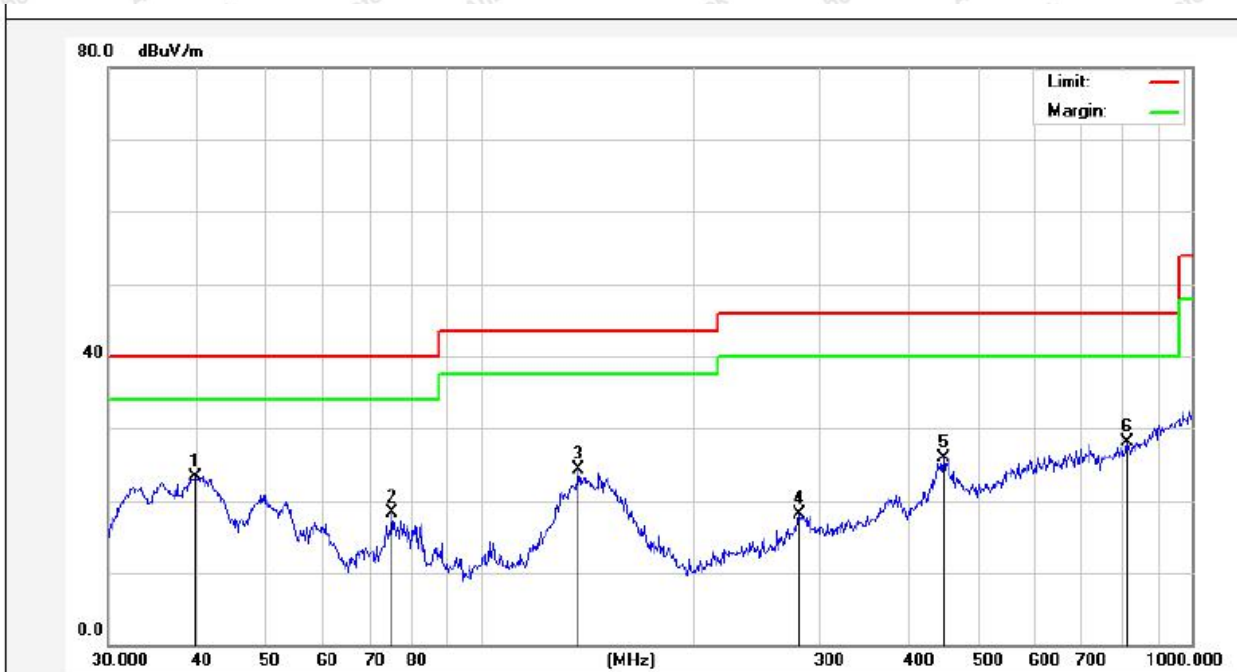
(Between 30MHz –1000 MHz)

Job No.:	18220WC00111501	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.2°C/50%RH
Test Mode:	Mode 1	Distance:	3m
Note:	For A8801(USB Port)		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	42.7496	31.42	-14.61	16.81	40.00	-23.19	QP	100	360	
2	77.3212	39.20	-21.06	18.14	40.00	-21.86	QP	100	0	
3	99.5279	36.83	-19.42	17.41	43.50	-26.09	QP	100	360	
4	158.6676	41.02	-21.64	19.38	43.50	-24.12	QP	100	0	
5	279.0436	37.83	-16.20	21.63	46.00	-24.37	QP	100	360	
6	446.4141	35.05	-12.12	22.93	46.00	-23.07	QP	100	0	

Job No.:	18220WC00111501	Polarization:	Vertical
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.2°C/50%RH
Test Mode:	Mode 1	Distance:	3m
Note:	For A8801(USB Port)		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.8542	37.01	-13.65	23.36	40.00	-16.64	QP	100	0	
2	75.1822	36.59	-18.34	18.25	40.00	-21.75	QP	100	360	
3	137.4202	44.26	-19.89	24.37	43.50	-19.13	QP	100	0	
4	281.0075	32.32	-14.12	18.20	46.00	-27.80	QP	100	360	
5	447.9822	36.18	-10.29	25.89	46.00	-20.11	QP	100	0	
6	810.2654	32.12	-3.96	28.16	46.00	-17.84	QP	100	360	

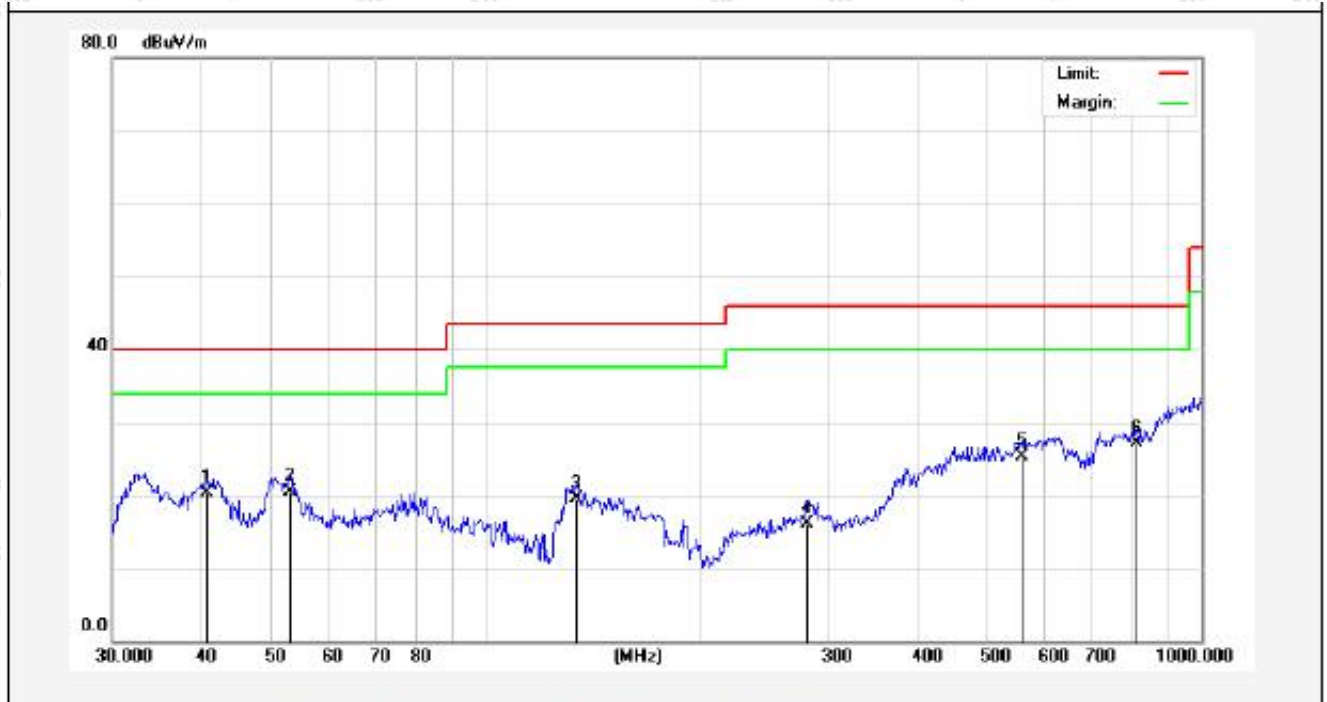
(Between 30MHz –1000 MHz)

Job No.:	18220WC00111501	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.2°C/50%RH
Test Mode:	Mode 1	Distance:	3m
Note:	For A8802(TYPE-C Port)		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	44.5867	30.18	-14.32	15.86	40.00	-24.14	QP	100	0	
2	71.8319	35.65	-20.71	14.94	40.00	-25.06	QP	100	360	
3	169.5988	36.78	-21.34	15.44	43.50	-28.06	QP	100	0	
4	369.4045	30.83	-12.99	17.84	46.00	-28.16	QP	100	360	
5	454.3100	32.30	-11.89	20.41	46.00	-25.59	QP	100	0	
6	815.9678	28.84	-3.84	25.00	46.00	-21.00	QP	100	360	

Job No.:	18220WC00111501	Polarization:	Vertical
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.2°C/50%RH
Test Mode:	Mode 1	Distance:	3m
Note:	For A8802(TYPE-C Port)		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.7014	33.99	-13.65	20.34	40.00	-19.66	QP	100	0	
2	53.1313	36.48	-15.90	20.58	40.00	-19.42	QP	100	360	
3	133.6184	39.23	-19.64	19.59	43.50	-23.91	QP	100	0	
4	281.0074	30.32	-14.12	16.20	46.00	-29.80	QP	100	360	
5	560.6928	33.14	-7.76	25.38	46.00	-20.62	QP	100	0	
6	813.1114	31.01	-3.90	27.11	46.00	-18.89	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.

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