

FCC TEST REPORT

For

Autel Intelligent Tech. Corp., Ltd.

Professional Scan Tool

Model No.: TS401

Prepared For : Autel Intelligent Tech. Corp., Ltd.
Address : 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan,
Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
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Report Number : SZAWW181225002-01
Date of Receipt : Dec. 25, 2018
Date of Test : Dec. 25, 2018~Mar. 12, 2019
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TEST REPORT

Applicant : Autel Intelligent Tech. Corp., Ltd.
Manufacturer : Autel Intelligent Tech. Corp., Ltd.
Product Name : Professional Scan Tool
Model No. : TS401
Trade Mark : AUTEL
Rating(s) : Input: DC 5V, 1A(Via adapter Input: AC 100~240V, 50/60Hz, Max: 0.35A; DC 3.7V, 1800 mAh battery inside)
Test Standard(s) : **FCC Part15 Subpart C 2018, 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 Test

Dec. 25, 2018~Mar. 12, 2019

Prepared By



Oliay Yang

(Engineer / Oliay Yang)

Reviewer

Snowy Meng

(Supervisor / Snowy Meng)

Approved & Authorized Signer

Sally Zhang

(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Autel Intelligent Tech. Corp., Ltd.
Address	:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, China
Manufacturer	:	Autel Intelligent Tech. Corp., Ltd.
Address	:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, China
Factory	:	Autel Intelligent Technology Corp.,Ltd.
Address	:	6th Floor, Building 1, Yanxiang Zhigu, NO.11 Gaoxin West Rd., Guangming New District, Shenzhen City, Guangdong Province, China.
Factory	:	AUTEL VIETNAM COMPANY LIMITED
Address	:	4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone, Hong Phong Township, An Duong County, Hai Phong, Viet Nam

1.2. Description of Device (EUT)

Product Name	:	Professional Scan Tool	
Model No.	:	TS401	
Trade Mark	:	AUTEL	
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter DC 3.7V By battery	
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)	
Product Description	:	Operation Frequency:	125KHz
		Modulation Type:	RFID
		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	:	Model: HK-AR-050A200-US Input: 100-240V~50/60Hz 0.35A Output: DC 5V, 2000mA
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1.4. Description of Test Modes

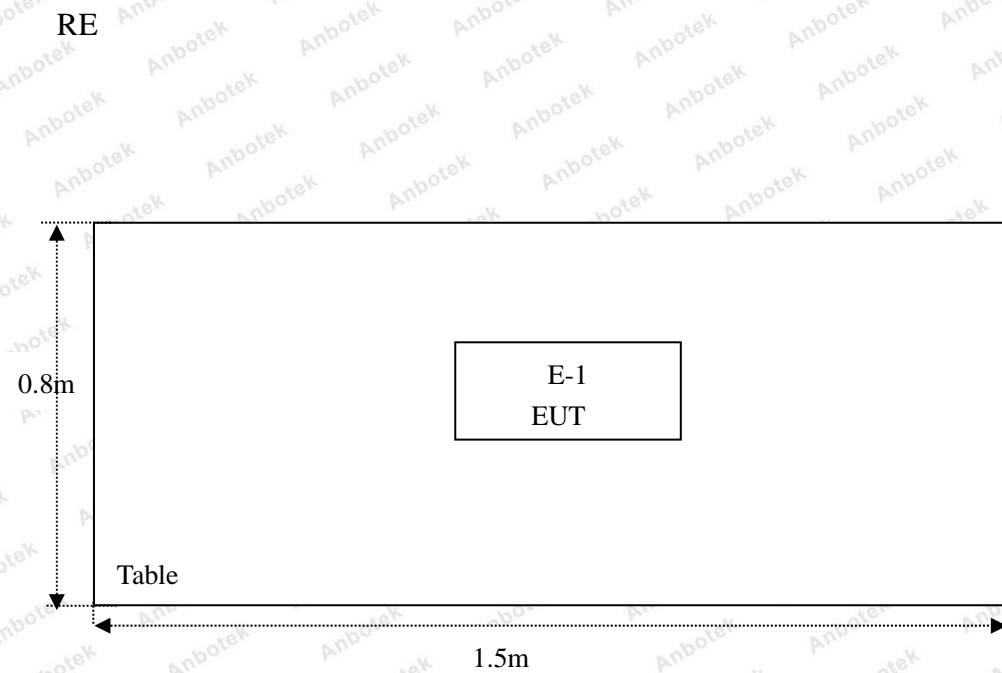
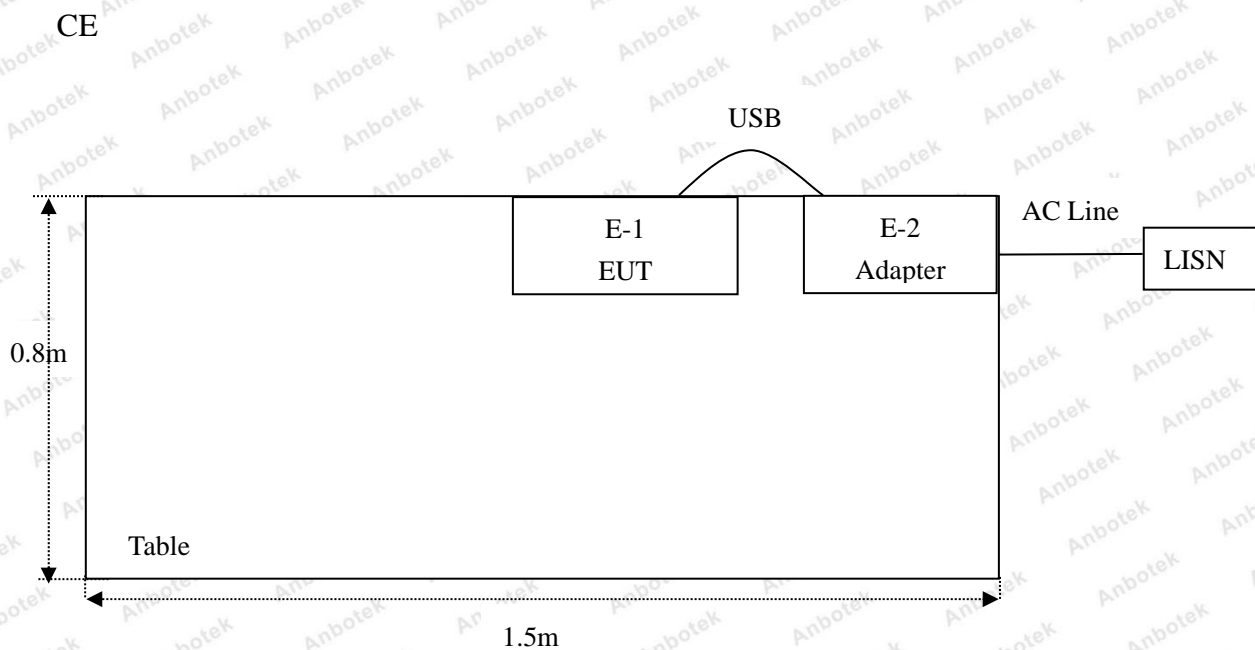
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	TX Mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode

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. 05, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 19, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	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	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Apr. 02, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Nov. 01, 2018	1 Year

1.7. 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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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

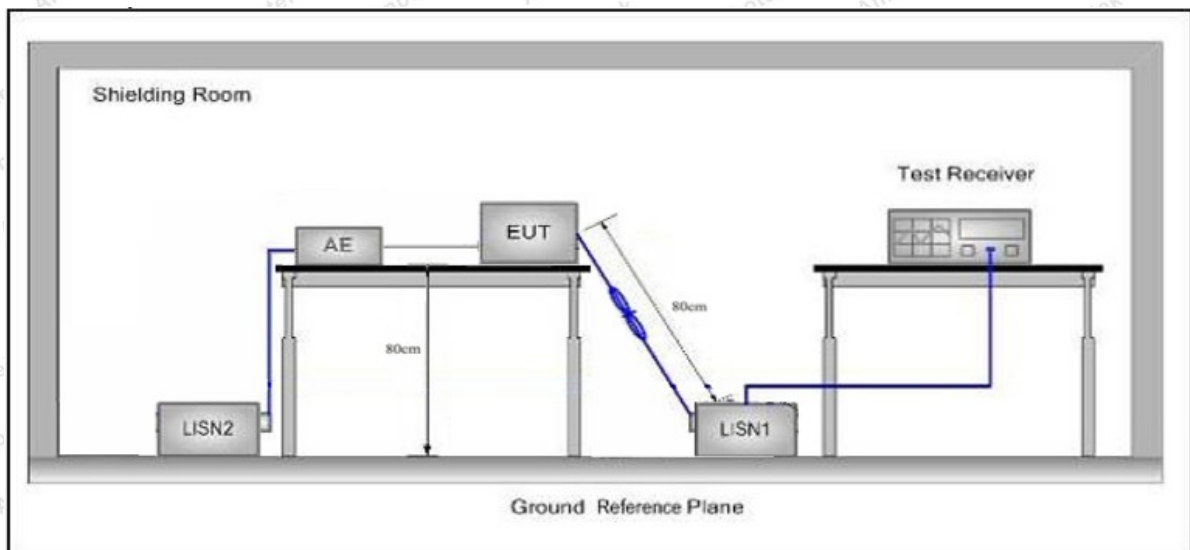
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

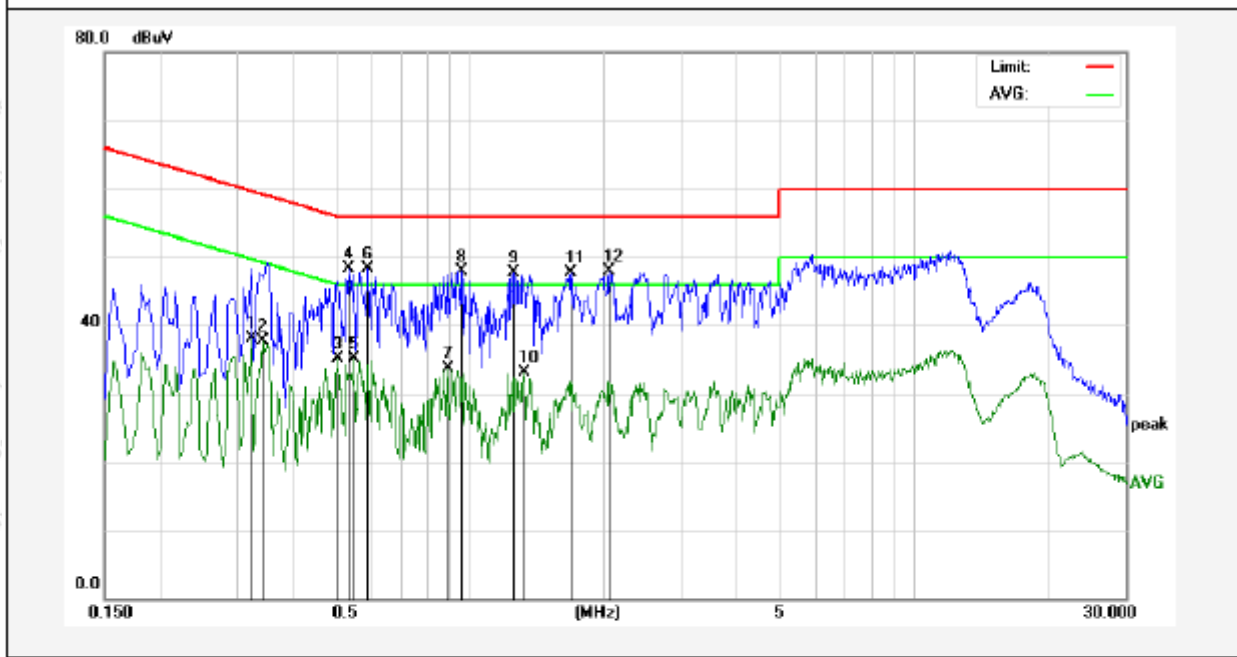
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

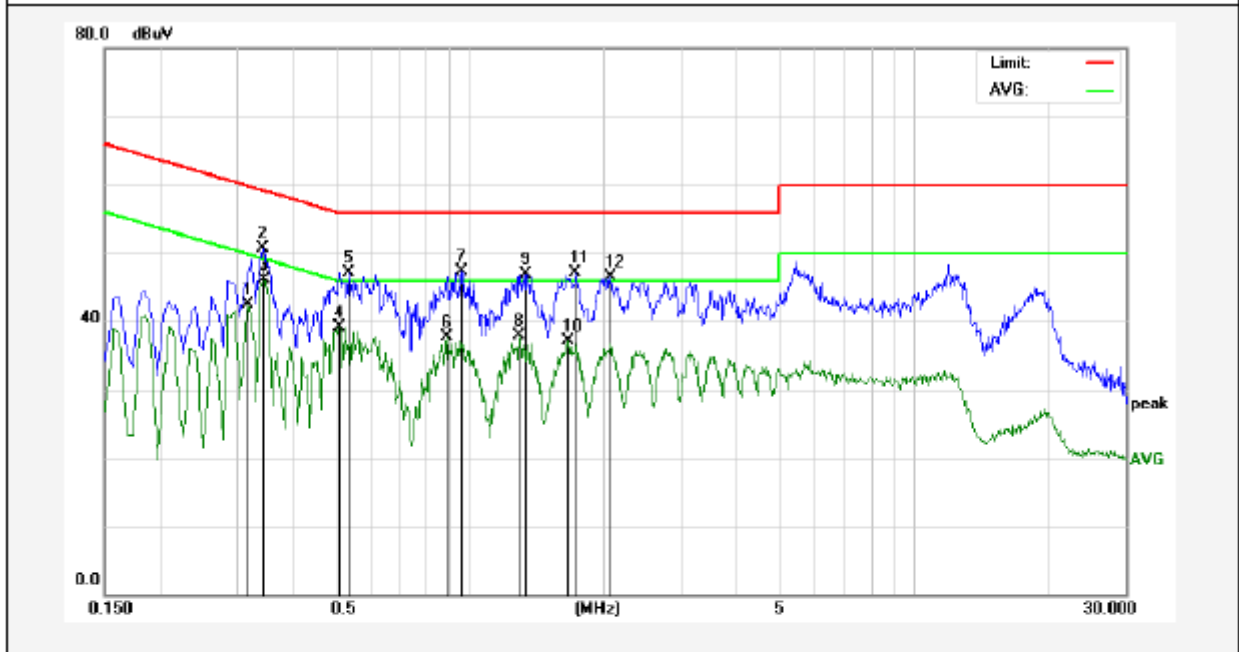
Test Site: 1# Shielded Room
 Operating Condition: TX Mode
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 17.5°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit dBUV	Over Limit (dB)	Detector	Remark
1	0.3220	18.11	19.90	38.01	49.65	-11.64	AVG	
2	0.3420	17.85	19.91	37.76	49.15	-11.39	AVG	
3	0.5060	15.21	19.98	35.19	46.00	-10.81	AVG	
4	0.5340	28.39	19.99	48.38	56.00	-7.62	QP	
5	0.5500	15.08	19.99	35.07	46.00	-10.93	AVG	
6	0.5899	28.24	20.01	48.25	56.00	-7.75	QP	
7	0.8900	13.55	20.09	33.64	46.00	-12.36	AVG	
8	0.9620	27.86	20.11	47.97	56.00	-8.03	QP	
9	1.2540	27.52	20.13	47.65	56.00	-8.35	QP	
10	1.3260	13.05	20.13	33.18	46.00	-12.82	AVG	
11	1.6900	27.59	20.13	47.72	56.00	-8.28	QP	
12	2.0620	27.71	20.14	47.85	56.00	-8.15	QP	

Conducted Emission Test Data

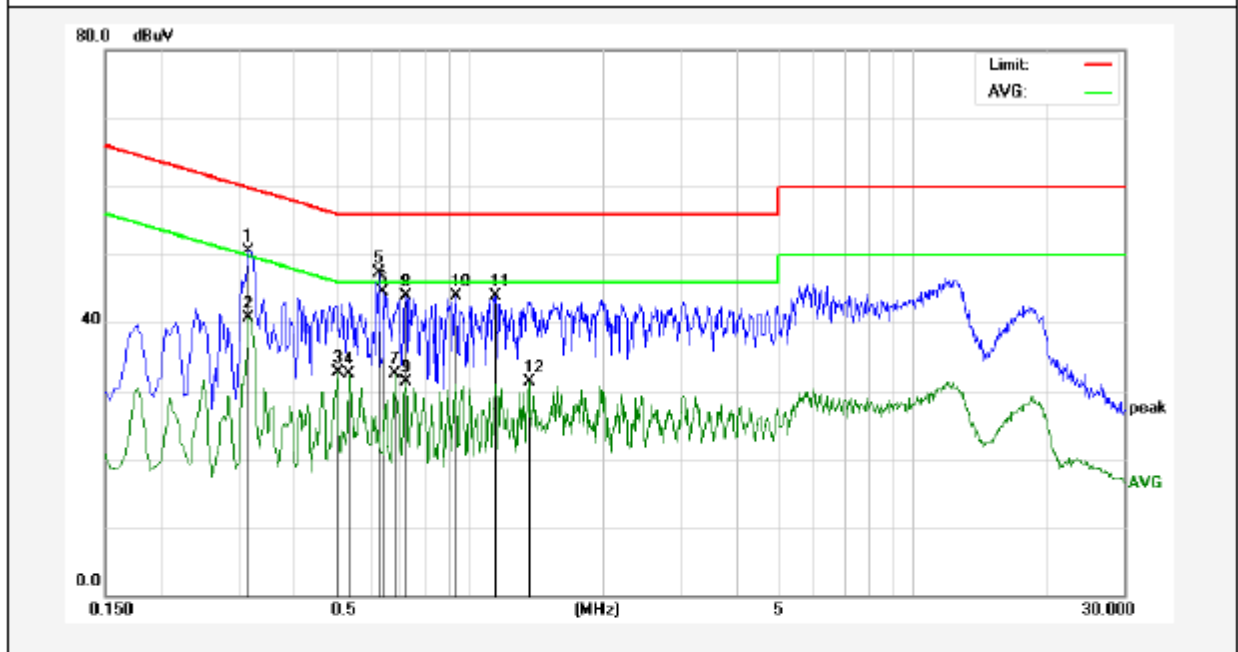
Test Site: 1# Shielded Room
 Operating Condition: TX Mode
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 17.5°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3180	22.56	19.90	42.46	49.76	-7.30	AVG	
2	0.3420	30.78	19.91	50.69	59.15	-8.46	QP	
3	0.3460	26.29	19.91	46.20	49.06	-2.86	AVG	
4	0.5100	19.16	19.98	39.14	46.00	-6.86	AVG	
5	0.5340	27.11	19.99	47.10	56.00	-8.90	QP	
6	0.8860	17.61	20.09	37.70	46.00	-8.30	AVG	
7	0.9620	27.24	20.11	47.35	56.00	-8.65	QP	
8	1.2940	17.86	20.13	37.99	46.00	-8.01	AVG	
9	1.3420	26.86	20.13	46.99	56.00	-9.01	QP	
10	1.6660	16.96	20.13	37.09	46.00	-8.91	AVG	
11	1.7260	27.04	20.13	47.17	56.00	-8.83	QP	
12	2.0740	26.34	20.14	46.48	56.00	-9.52	QP	

Conducted Emission Test Data

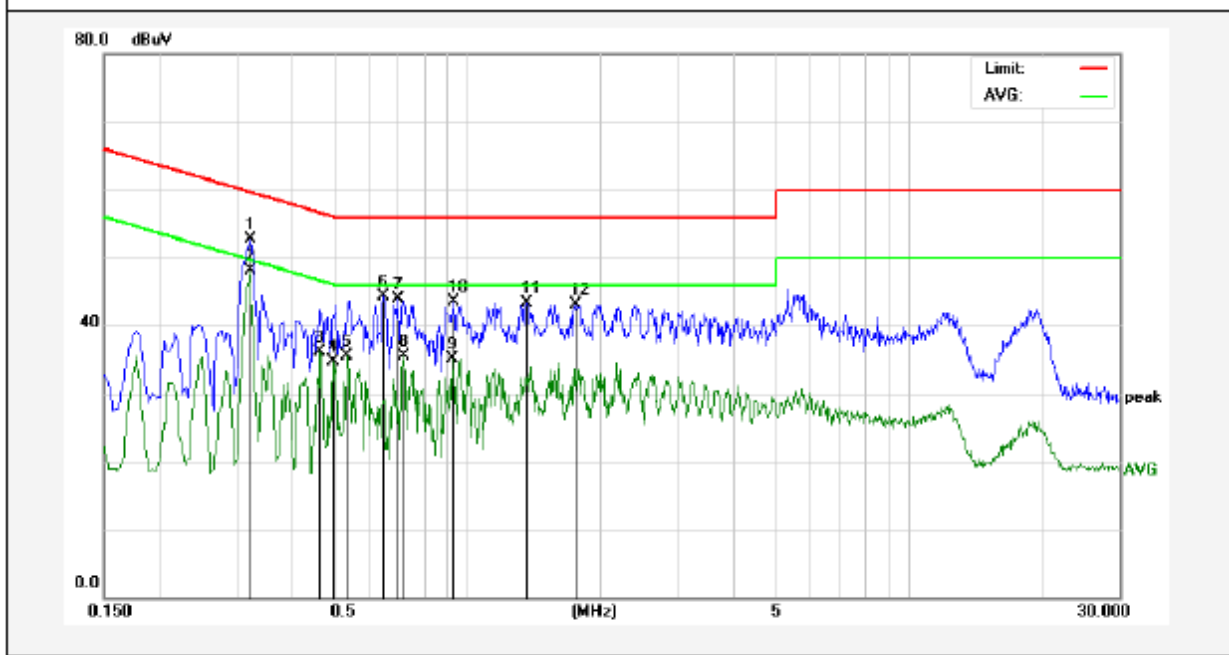
Test Site: 1# Shielded Room
 Operating Condition: TX Mode
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 17.5°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3180	30.57	19.90	50.47	59.76	-9.29	QP	
2	0.3180	20.80	19.90	40.70	49.76	-9.06	AVG	
3	0.5020	12.65	19.98	32.63	46.00	-13.37	AVG	
4	0.5340	12.46	19.99	32.45	46.00	-13.55	AVG	
5	0.6220	27.20	20.02	47.22	56.00	-8.78	QP	
6	0.6380	24.54	20.02	44.56	56.00	-11.44	QP	
7	0.6780	12.42	20.03	32.45	46.00	-13.55	AVG	
8	0.7180	23.91	20.04	43.95	56.00	-12.05	QP	
9	0.7180	11.32	20.04	31.36	46.00	-14.64	AVG	
10	0.9340	23.90	20.10	44.00	56.00	-12.00	QP	
11	1.1420	23.87	20.12	43.99	56.00	-12.01	QP	
12	1.3619	11.11	20.13	31.24	46.00	-14.76	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: TX Mode
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 17.5°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3220	32.88	19.90	52.78	59.65	-6.87	QP	
2	0.3220	28.25	19.90	48.15	49.65	-1.50	AVG	
3	0.4660	16.10	19.96	36.06	46.58	-10.52	AVG	
4	0.4980	14.64	19.98	34.62	46.03	-11.41	AVG	
5	0.5340	15.43	19.99	35.42	46.00	-10.58	AVG	
6	0.6460	24.26	20.02	44.28	56.00	-11.72	QP	
7	0.6980	23.91	20.04	43.95	56.00	-12.05	QP	
8	0.7180	15.56	20.04	35.60	46.00	-10.40	AVG	
9	0.9260	15.04	20.10	35.14	46.00	-10.86	AVG	
10	0.9340	23.44	20.10	43.54	56.00	-12.46	QP	
11	1.3700	23.17	20.13	43.30	56.00	-12.70	QP	
12	1.7660	23.01	20.14	43.15	56.00	-12.85	QP	

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

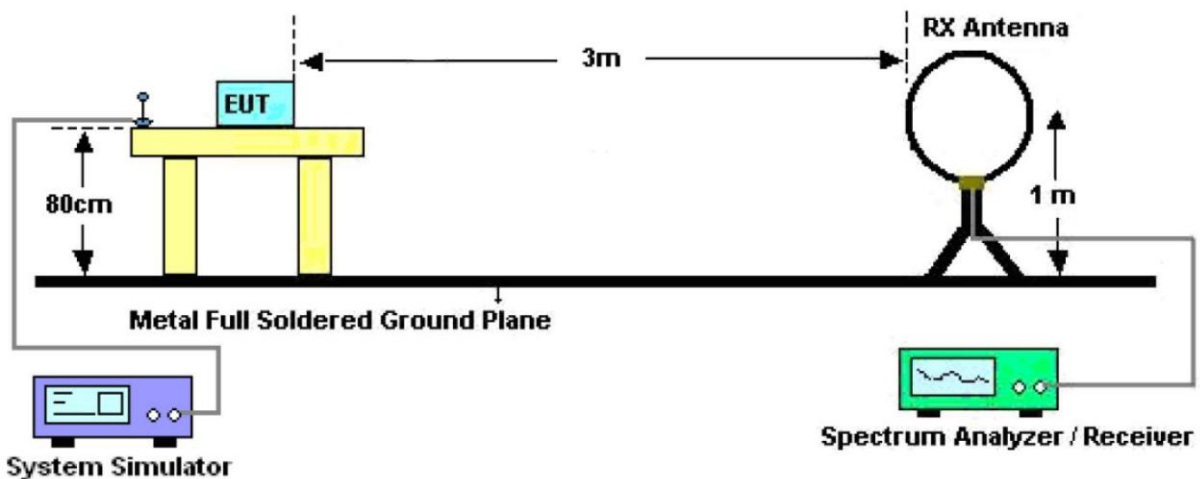


Figure 1. Below 30MHz

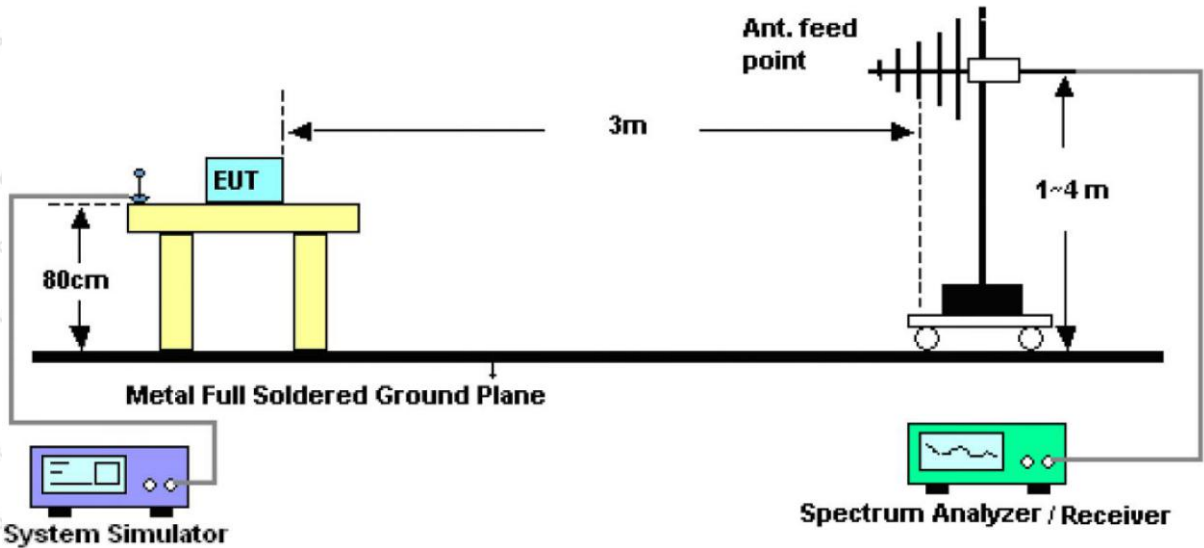


Figure 2. 30MHz to 1GHz

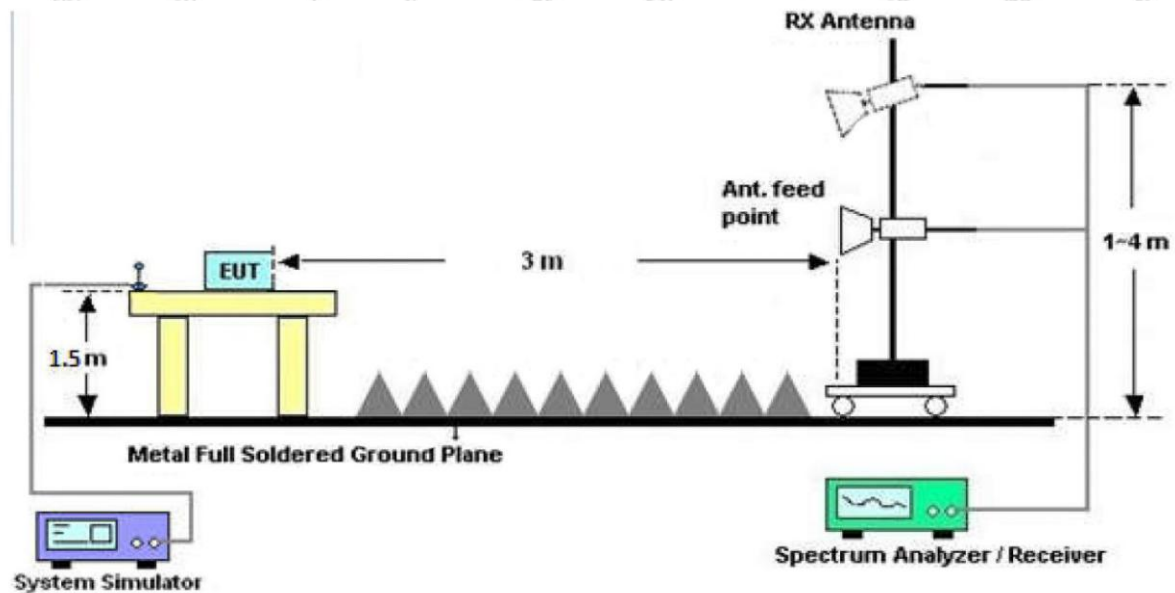


Figure 3. Above 1 GHz

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

During the test, pre-scan xyz orientation, and found x orientation is the worst case, only the worst case is recorded in the report.

Test Results

(Between 9KHz – 30MHz)

Job No.:	SZAWW181225002-01	Power Source:	AC 120V, 60Hz for adapter
Standard:	FCC PART15 C _3m	Temp.(C)/Hum.(%RH):	22.2°C/57%RH
Test item:	Radiation Test	Distance:	3m
Test Mode:	Mode 1		



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)
0.5090	33.51	19.53	2.59	0	55.63	133.36	-77.73	Peak	139
0.5090	25.60	19.53	2.59	0	47.72	113.36	-65.64	AV	139
0.1250	61.82	19.30	2.54	0	83.66	125.60	-41.94	Peak	308
0.1250	50.27	19.30	2.54	0	72.11	105.60	-33.49	AV	308
0.2500	52.66	19.53	2.59	0	74.78	119.61	-44.83	Peak	42
0.2500	42.94	19.53	2.59	0	65.06	99.61	-34.55	AV	42
0.3750	44.27	19.53	2.59	0	66.39	116.11	-49.72	Peak	284
0.3750	35.29	19.53	2.59	0	57.41	96.11	-38.70	AV	284
0.5060	23.23	20.34	2.59	0	46.16	73.52	-27.36	QP	351
0.6895	22.07	20.34	2.59	0	45.00	70.83	-25.83	QP	63

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.:	SZAWW181225002-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	22.2°C/57%RH
Test Mode:	Mode 1	Distance:	3m



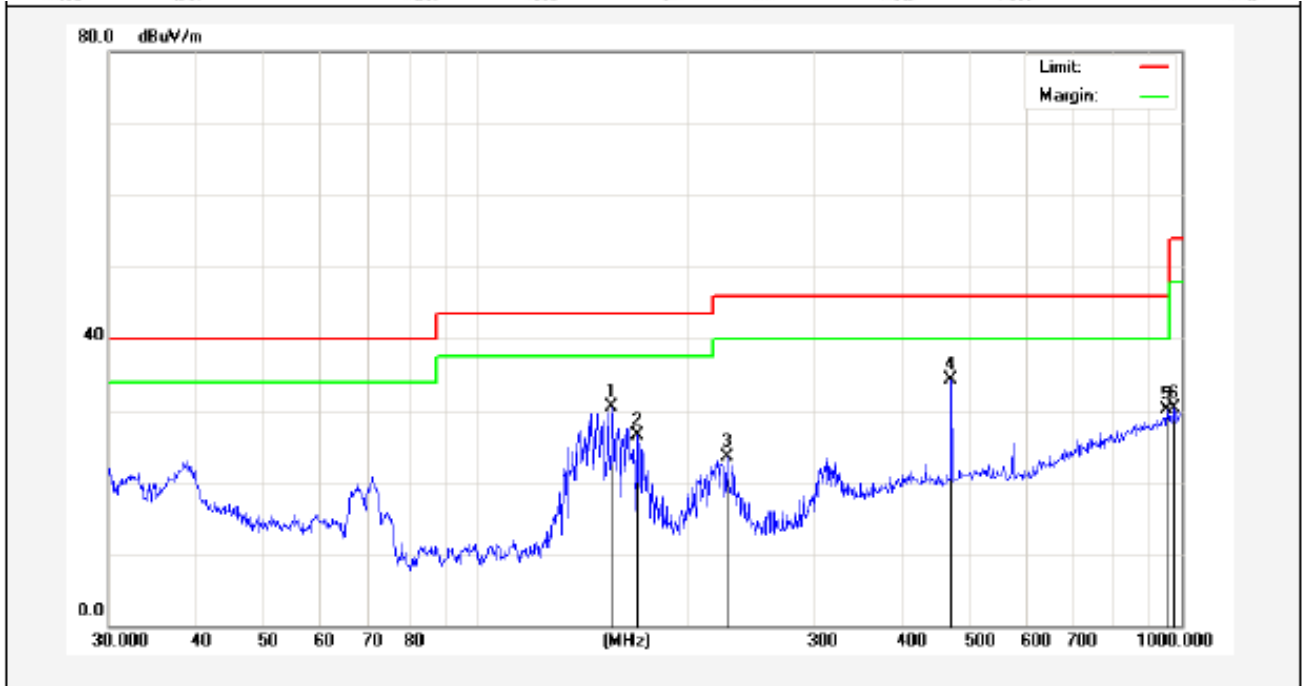
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	139.8508	49.54	-22.48	27.06	43.50	-16.44	QP	300	0	
2	142.8243	49.46	-22.45	27.01	43.50	-16.49	QP	300	36	
3	148.4410	49.69	-22.36	27.33	43.50	-16.17	QP	300	47	
4	152.6641	46.24	-22.22	24.02	43.50	-19.48	QP	300	69	
5	163.7550	49.94	-21.37	28.57	43.50	-14.93	QP	300	121	
6	166.6514	48.94	-21.00	27.94	43.50	-15.56	QP	300	360	

Job No.:	SZAWW181225002-01	Polarization:	Vertical
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	22.2°C/57%RH
Test Mode:	Mode 1	Distance:	3m



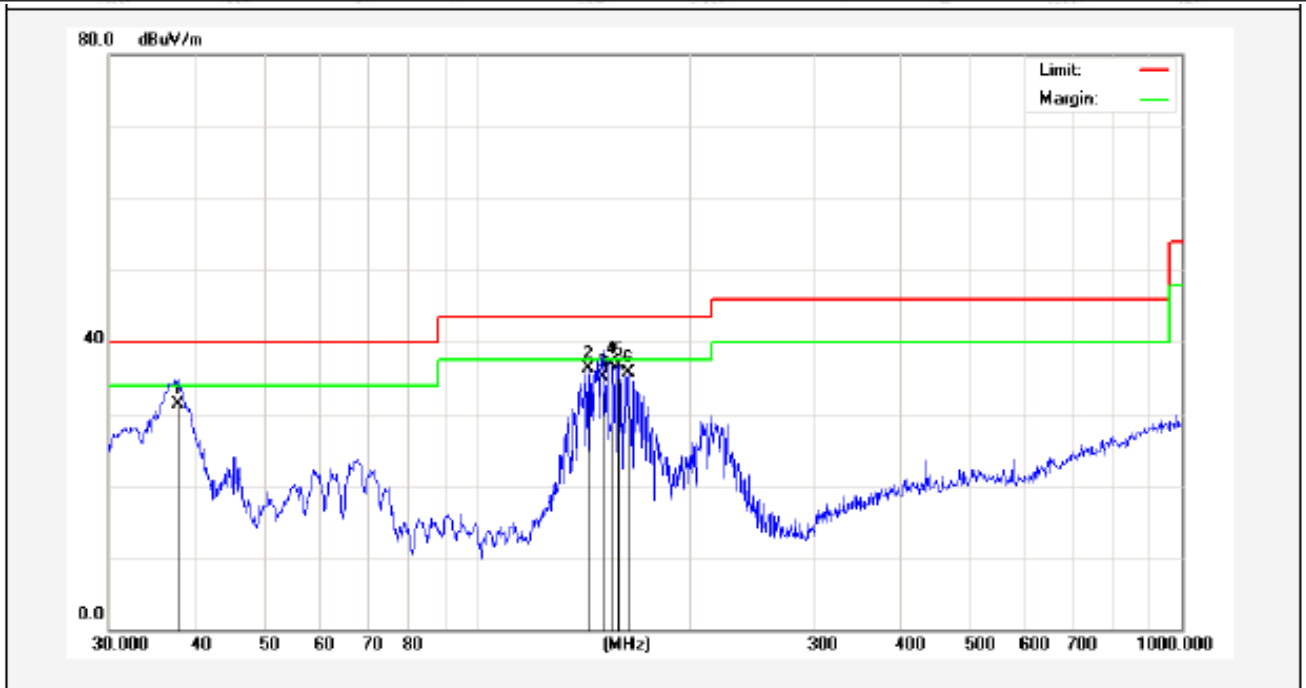
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	38.3462	46.39	-14.26	32.13	40.00	-7.87	QP	300	0	
2	139.8506	52.73	-18.47	34.26	43.50	-9.24	QP	300	52	
3	151.5971	48.68	-18.27	30.41	43.50	-13.09	QP	300	97	
4	162.0414	49.37	-17.81	31.56	43.50	-11.94	QP	300	122	
5	164.9073	47.12	-17.71	29.41	43.50	-14.09	QP	300	263	
6	214.5141	51.56	-15.46	36.10	43.50	-7.40	QP	300	360	

Job No.:	SZAWW181225002-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	22.2°C/57%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	155.3644	52.66	-22.09	30.57	43.50	-12.93	QP	300	0	
2	169.0054	47.13	-20.70	26.43	43.50	-17.07	QP	300	47	
3	226.0994	43.29	-19.75	23.54	46.00	-22.46	QP	300	99	
4	470.5232	46.16	-11.81	34.35	46.00	-11.65	QP	300	121	
5	952.0937	33.97	-3.93	30.04	46.00	-15.96	QP	300	252	
6	975.7529	33.80	-3.54	30.26	54.00	-23.74	QP	300	360	

Job No.:	SZAWW181225002-01	Polarization:	Vertical
Standard:	FCC PART15 C _3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	22.2°C/57%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	37.5478	45.96	-14.71	31.25	40.00	-8.75	QP	300	0	
2	143.8293	54.67	-18.43	36.24	43.50	-7.26	QP	300	47	
3	150.5378	53.47	-18.33	35.14	43.50	-8.36	QP	300	122	
4	155.3642	54.92	-18.09	36.83	43.50	-6.67	QP	300	193	
5	158.6675	54.67	-17.92	36.75	43.50	-6.75	QP	300	225	
6	163.7548	53.38	-17.75	35.63	43.50	-7.87	QP	300	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

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.

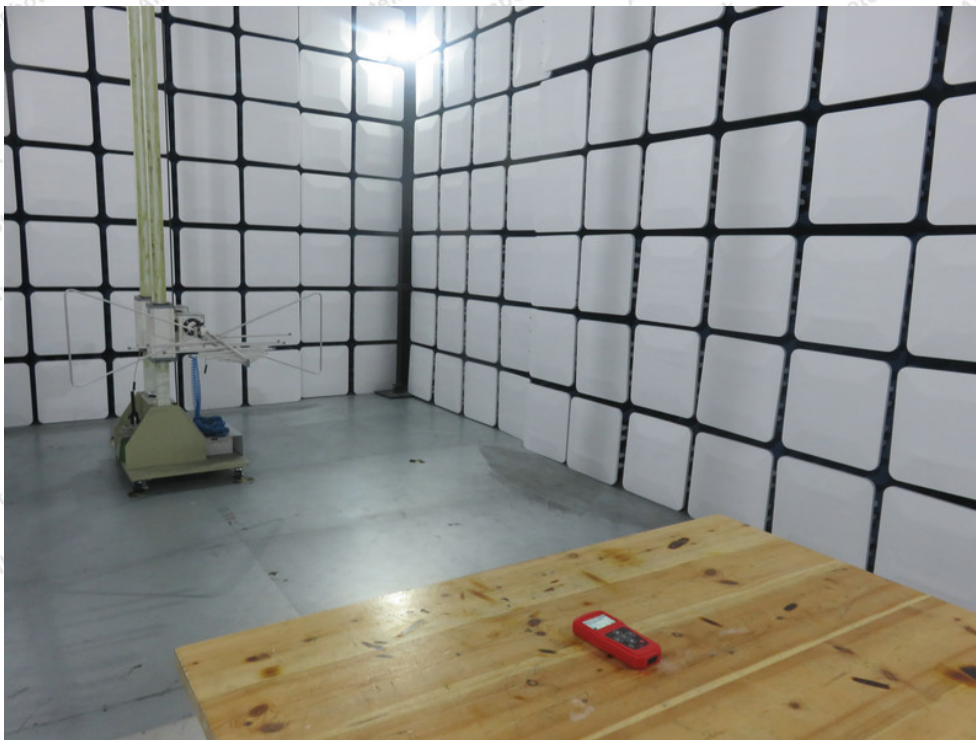


APPENDIX I-- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH



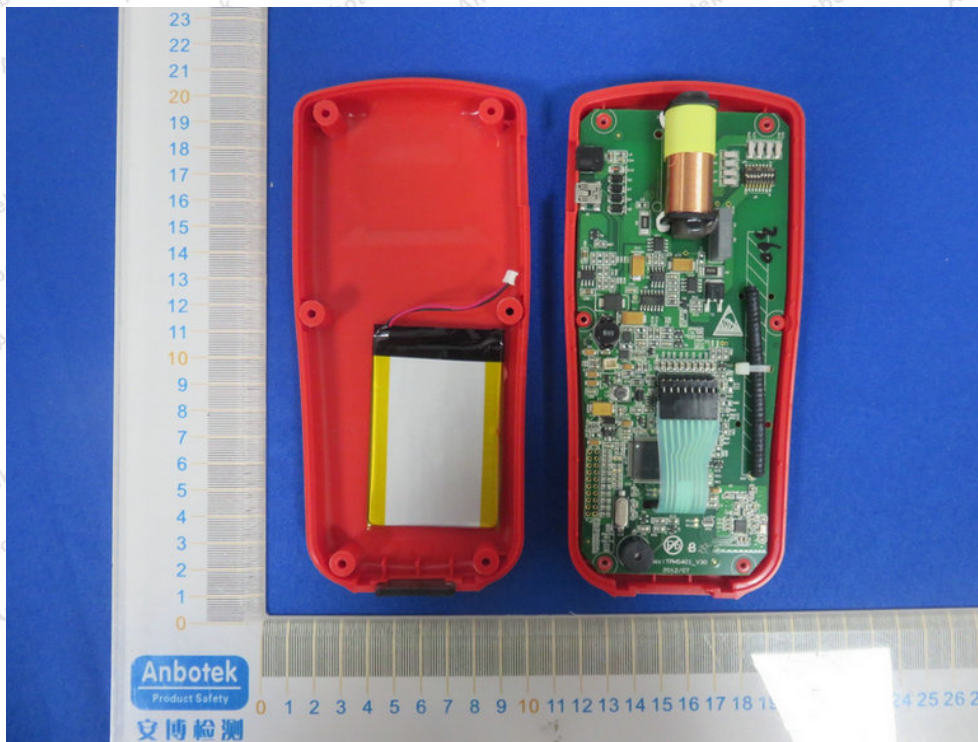


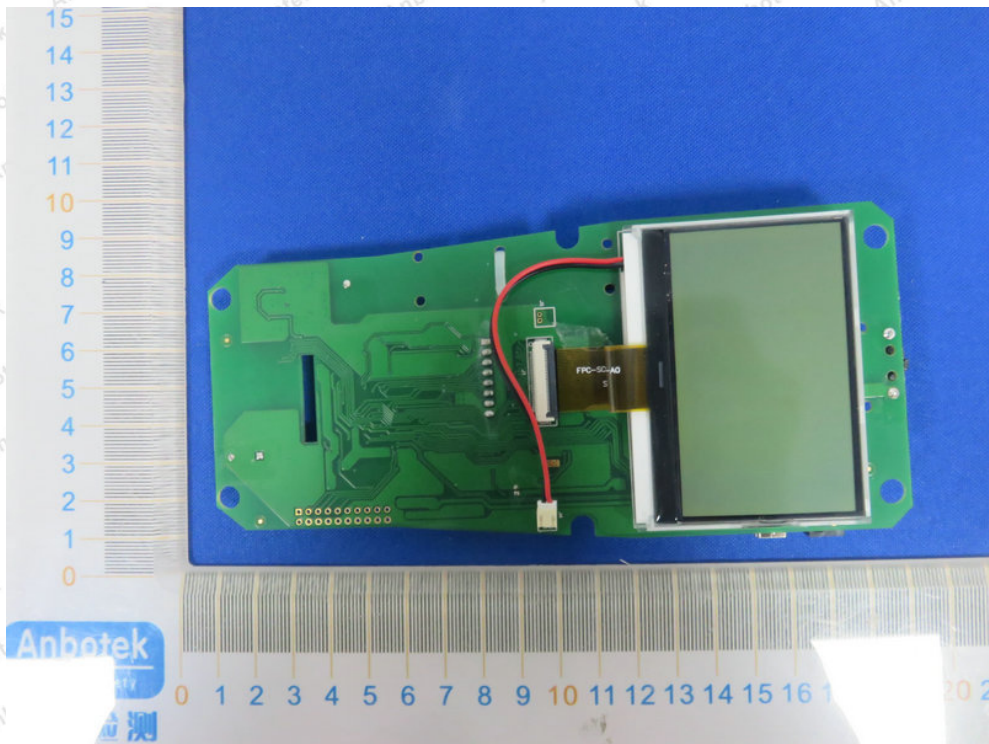


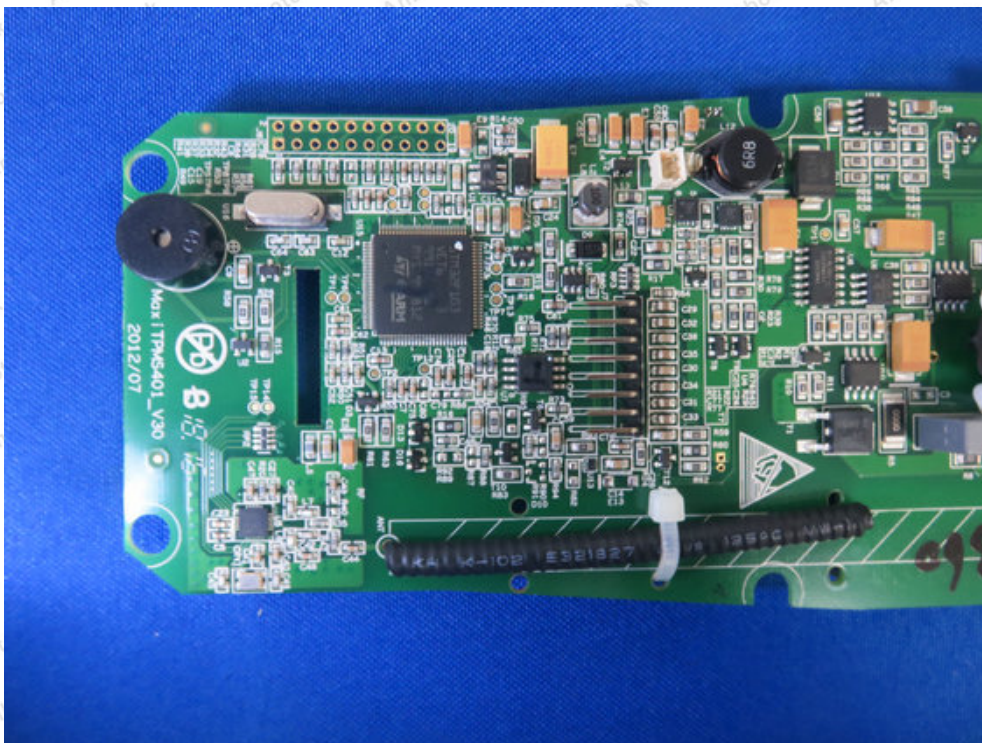
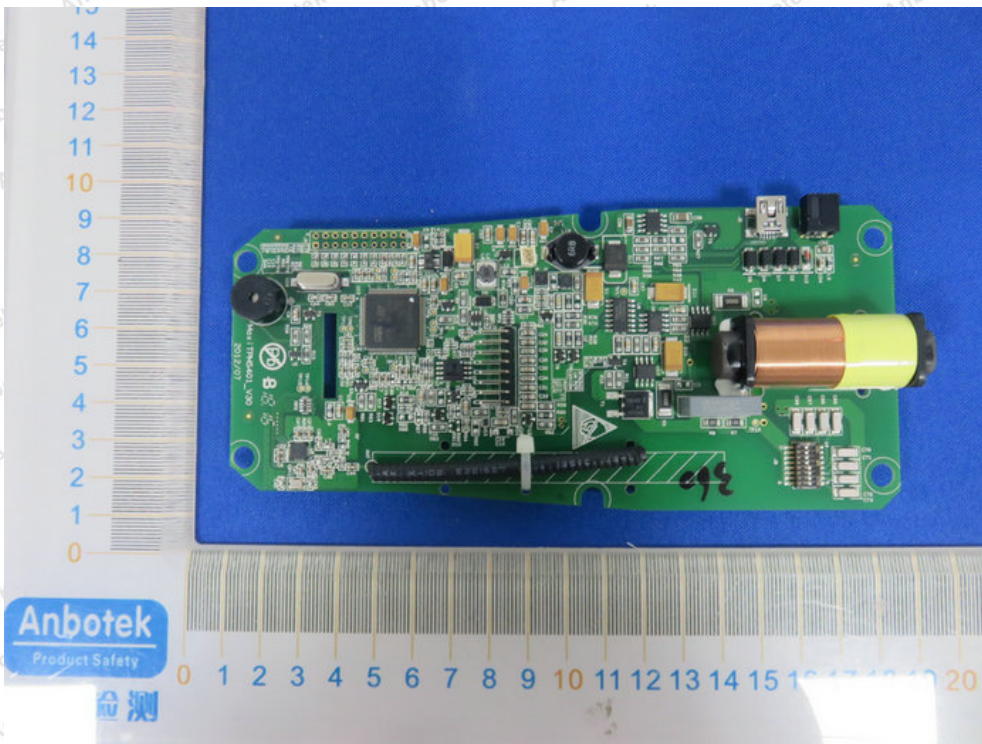


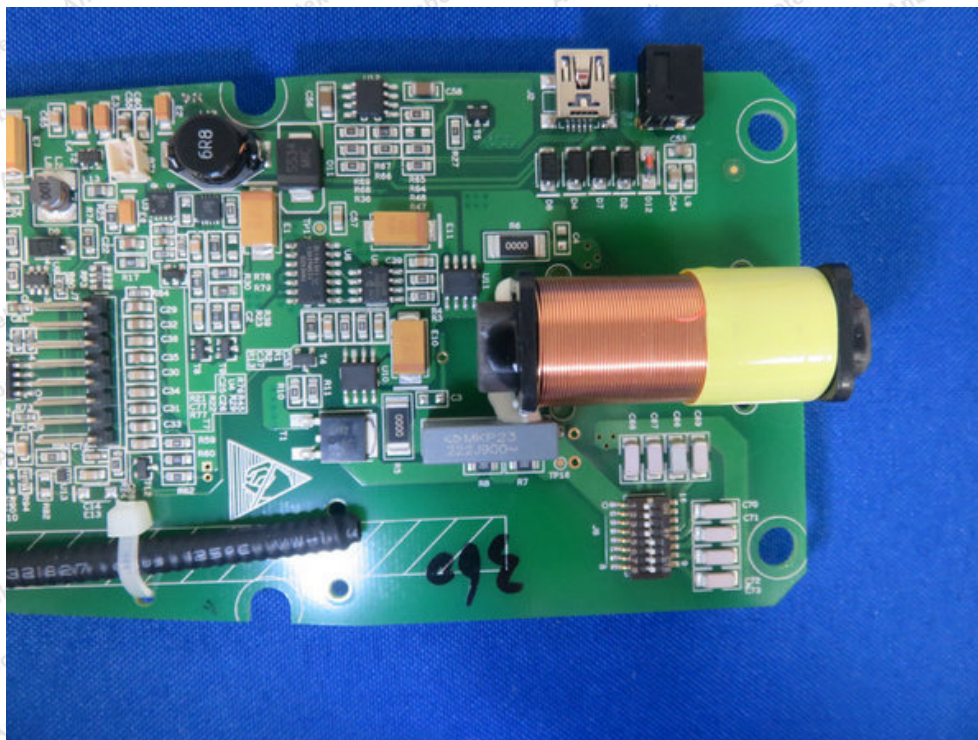


APPENDIX III -- INTERNAL PHOTOGRAPH









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