FCC EMC Test Report

FCC ID: 2ATEYEGRT-09

Project No.	:	2204C105
Equipment	:	HUAWEI Sound Joy
Brand Name	:	HUAWEI
Test Model	:	EGRT-09
Series Model	:	N/A
Applicant	:	Huawei Device Co., Ltd.
Address	:	No.2 of Xincheng Road, Songshan Lake Zone,Dongguan, Guangdong 523808, People's Republicof China
Manufacturer	:	Huawei Device Co., Ltd.
Address	:	No.2 of Xincheng Road, Songshan Lake Zone,Dongguan, Guangdong 523808, People's Republicof China
Date of Receipt	:	Apr. 25, 2022
Date of Test	:	Apr. 25, 2022 ~ May 06, 2022
Issued Date	:	May 07, 2022
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2022042036
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart B

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Dave Hong

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TESTING CERT #5123.02

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, A2LA, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCE-1-2204C105	R00	Original Report	May 07, 2022	Valid

1. SUMMARY OF TEST RESULTS

Emission		
Standard(s)	Test Item	Result
FCC CFR Title 47,Part 15,Subpart B ANSI C63.4-2014	AC Power Line Conducted Emissions	PASS
	Radiated Emissions 30 MHz to 1 GHz	PASS
	Radiated Emissions Above 1 GHz	PASS

1.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.
BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB02 (3m)	CISPR	30MHz ~ 200MHz	V	4.34
		30MHz ~ 200MHz	H	4.00
		200MHz ~ 1,000MHz	V	4.50
		200MHz ~ 1,000MHz	H	4.26

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB02 (3m)	CISPR	1GHz ~ 6GHz	4.04
		6GHz ~ 18GHz	5.10

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Tested By
AC Power Line Conducted Emissions	24°C	52%	Jolly Su
Radiated emissions 30 MHz to 1 GHz	25°C	60%	Larry Yuan
Radiated emissions above 1 GHz	25°C	60%	Larry Yuan

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	HUAWEI Sound Joy
Brand Name	HUAWEI
Test Model	EGRT-09
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	IA1EGRTM00
Software Version	5.0.3.0(H100SP82C00)D
Power Source	1# DC voltage supplied from AC adapter. (Supports Unit) 2# Supplied from battery.
Power Rating	1# I/P: 100-240V~50/60Hz 1.2A O/P: 5Vdc, 2A OR 9Vdc, 2A or 10Vdc, 4A 2# DC 3.87V
Connecting I/O Port(s)	1* USB port
Classification of EUT	Class B
Highest Internal Frequency(Fx)	2483.5MHz

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT contains following accessory devices:

Items	Trademark / Manufacturer / Factory	Model Name	Description
Rechargeable Li-ion Polymer Battery	Huawei Device Co., Ltd. (SCUD / Sunwoda)	HB125290EFW-12	Rated capacity: 8800mAh Nominal Voltage: +3.87V Charging Voltage: +4.45V
Data Cable	Broad Telecmmunication CO.,Ltd	WA0046	USB2.0 USB-A to USB-C Charge Data Cable,1.0meter, Shield not Grounded
	Freeport JI an Electronics Co.,Ltd	AU2-CHO006HF	
	MING JI Electronics Co.,Ltd	213-00989-0	
	ASAP TECHNOLOGY (JIANGXI) CO LTD	L99UC138-CS-H	

2.2 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	Charge+Standby+NFC
Mode 2	Charge+BT PLAY+NFC
Mode 3	BT PLAY+NFC

AC Power Line Conducted Emissions test	
Final Test Mode	Description
Mode 1	Charge+Standby+NFC

Radiated Emissions 30 MHz to 1 GHz test	
Final Test Mode	Description
Mode 1	Charge+Standby+NFC

Radiated emissions above 1 GHz test	
Final Test Mode	Description
Mode 1	Charge+Standby+NFC

Item	Model	Trademark / Manufacturer / Factory	Config1	Config2	Config3	Config4
Battery	HB125290EFW-12	Huawei Device Co., Ltd.(Manufacturer: SCUD)	V			
	HB125290EFW-12	Huawei Device Co., Ltd.(Manufacturer: Sunwoda)		V	V	V
Cable	WA0046	Broad Telecmmunication CO.,Ltd	V			
	AU2-CHO006HF	Freeport JI an Electronics Co.,Ltd		V		
	213-00989-0	MING JI Electronics Co.,Ltd			V	
	L99UC138-CS-H	ASAP TECHNOLOGY (JIANGXI) CO LTD				V

Note:

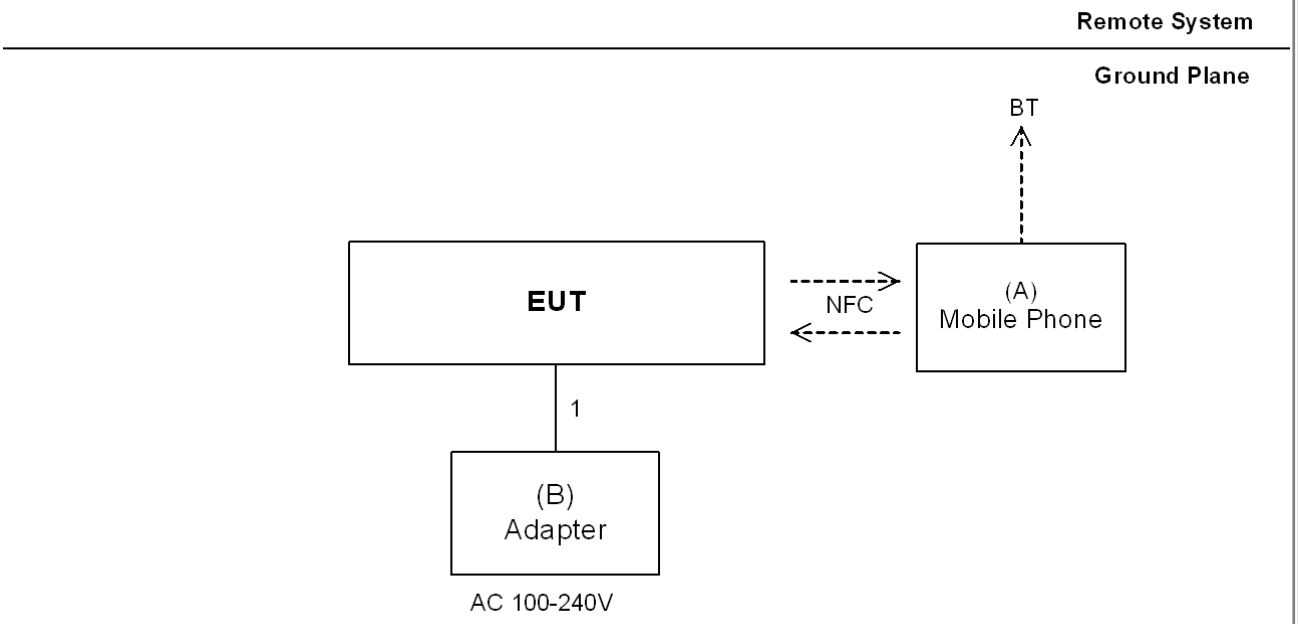
1. Config 1 tested Mode 1-Mode 3 and used the worst mode to test Config 2-Config4. In this report only recorded the worst case.
2. For radiated emissions: The placement direction for Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.
3. The product supports BT function.
   The frequency exemption is 2400-2483.5MHz.
4. Radiated emission above 1GHz tested with 2.4G filter.

2.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

1. EUT connected to Mobile Phone via NFC.
2. EUT connected to Mobile Phone via BT.
3. EUT connected to Adapter via USB Cable.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Mobile Phone	SAMSUNG	SM-3650/DS	R28KA0BBEEE
B	Adapter	HUAWEI	HW-100400E01	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1m

3. EMC EMISSION TEST

3.1 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1.1 LIMIT

Frequency of Emission (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Jan. 22, 2023
2	LISN	EMCO	3816/2	52765	Jan. 23, 2023
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 23, 2023
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	Cable	N/A	RG223	12m	Mar. 08, 2023

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

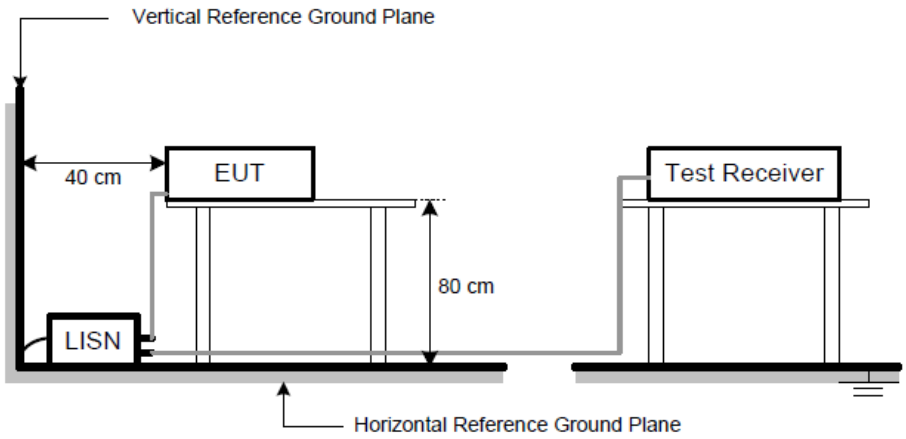
3.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
f. Measuring frequency range from 150KHz to 30MHz.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP



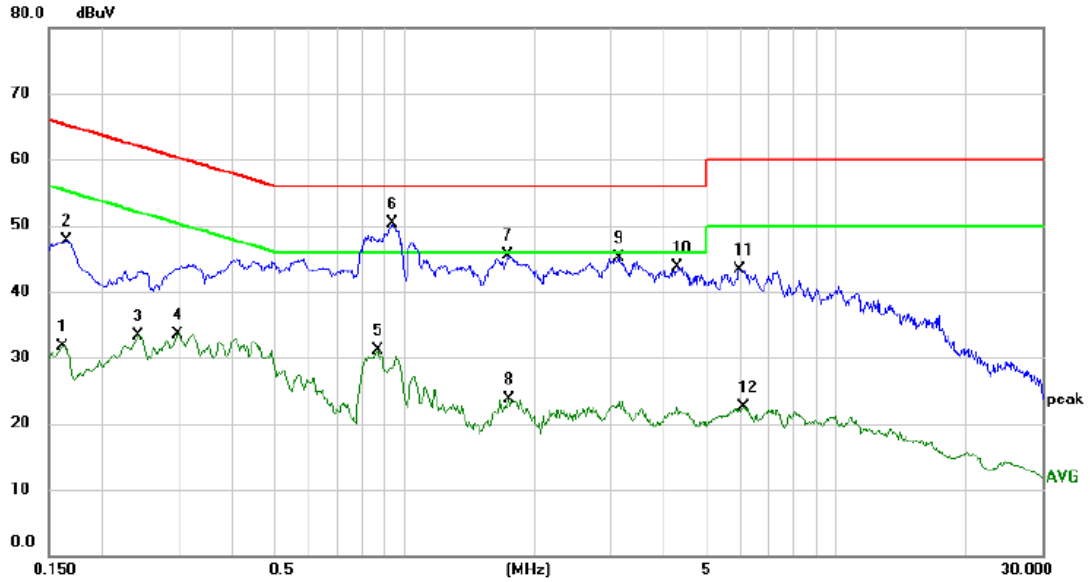
3.1.6 TEST RESULTS

Remark:

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9 kHz; SPA setting in RBW=10 kHz, VBW =10 kHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10 kHz, VBW=10 kHz, Swp. Time =0.3 sec./MHz.

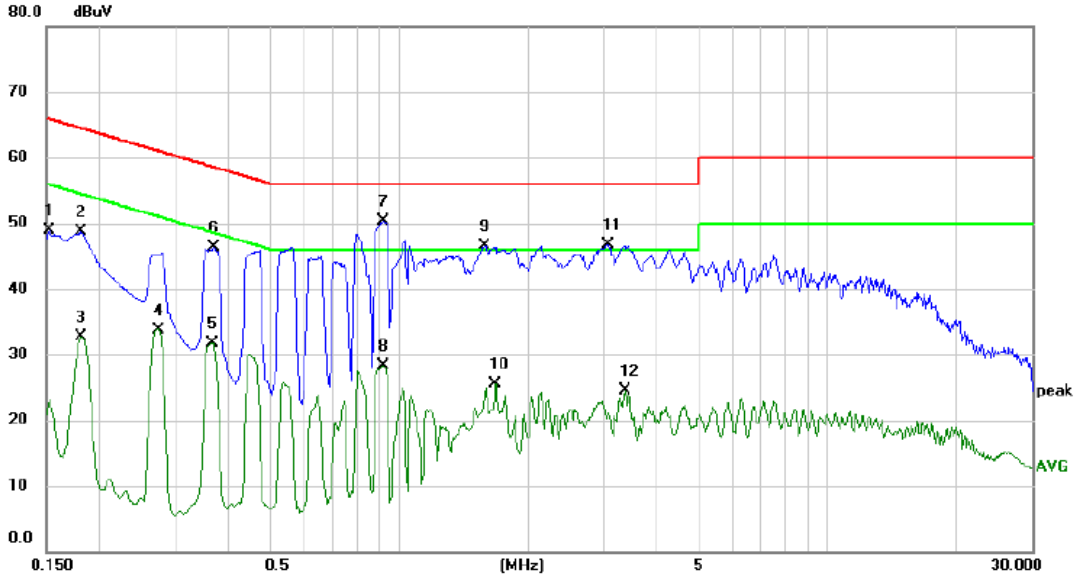
(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Mode 1 (Config2)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1612	22.10	9.67	31.77	55.40	-23.63	AVG	
2		0.1655	38.03	9.67	47.70	65.18	-17.48	QP	
3		0.2421	23.72	9.68	33.40	52.02	-18.62	AVG	
4		0.2983	23.89	9.69	33.58	50.29	-16.71	AVG	
5		0.8652	21.35	9.77	31.12	46.00	-14.88	AVG	
6	*	0.9374	40.51	9.77	50.28	56.00	-5.72	QP	
7		1.7340	35.72	9.84	45.56	56.00	-10.44	QP	
8		1.7452	13.89	9.84	23.73	46.00	-22.27	AVG	
9		3.1356	35.08	9.95	45.03	56.00	-10.97	QP	
10		4.2967	33.70	10.02	43.72	56.00	-12.28	QP	
11		5.9660	33.19	10.11	43.30	60.00	-16.70	QP	
12		6.1101	12.38	10.12	22.50	50.00	-27.50	AVG	

Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Mode 1 (Config2)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1522	39.27	9.63	48.90	65.88	-16.98	QP	
2		0.1814	39.01	9.63	48.64	64.42	-15.78	QP	
3		0.1814	23.11	9.63	32.74	54.42	-21.68	AVG	
4		0.2736	24.14	9.66	33.80	51.01	-17.21	AVG	
5		0.3660	22.06	9.67	31.73	48.59	-16.86	AVG	
6		0.3704	36.66	9.67	46.33	58.49	-12.16	QP	
7	*	0.9172	40.49	9.75	50.24	56.00	-5.76	QP	
8		0.9172	18.54	9.75	28.29	46.00	-17.71	AVG	
9		1.5830	36.68	9.89	46.57	56.00	-9.43	QP	
10		1.6800	15.68	9.88	25.56	46.00	-20.44	AVG	
11		3.0750	36.80	9.93	46.73	56.00	-9.27	QP	
12		3.3607	14.63	9.96	24.59	46.00	-21.41	AVG	

3.2 RADIATED EMISSIONS 30 MHZ TO 1 GHZ

3.2.1 LIMIT

Frequency (MHz)	Class B (at 3m)	
	(uV/m) Quasi-peak	(dBuV/m) Quasi-peak
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
960 - 1000	500	54

NOTE:
(1) The tighter limit applies at the band edges.
(2) Emission level (dBuV/m) = 20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Amplifier	HP	8447D	1937A02847	Jan. 22, 2023
2	Cable	emci	LMR-400(30MHz-1GHz)(10m+2.5m)	N/A	Jun. 01, 2022
3	Controller	MF	MF-7802BS	N/A	N/A
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	EMI Test Receiver	Keysight	N9038A	MY56400060	Jan. 22, 2023
6	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	9168-806	Aug. 17, 2022
7	Attenuator	EMCI	EMCI-N-6-06	N0657	Aug. 17, 2022

Remark: “N/A” denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

3.2.3 TEST PROCEDURE

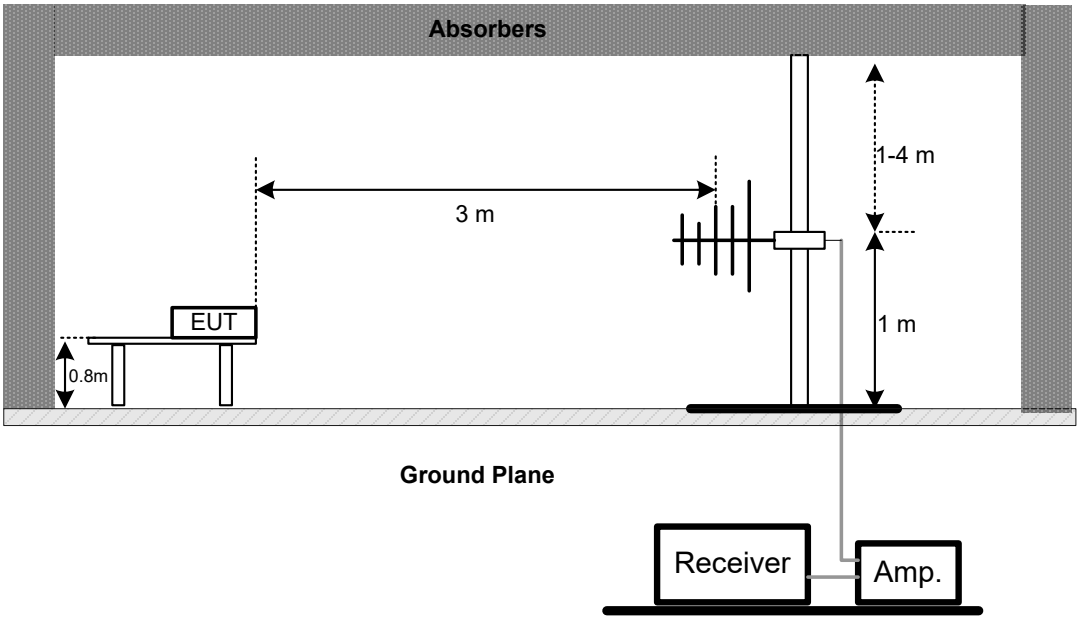
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform.
f. For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

3.2.5 TEST SETUP

30 MHz to 1 GHz

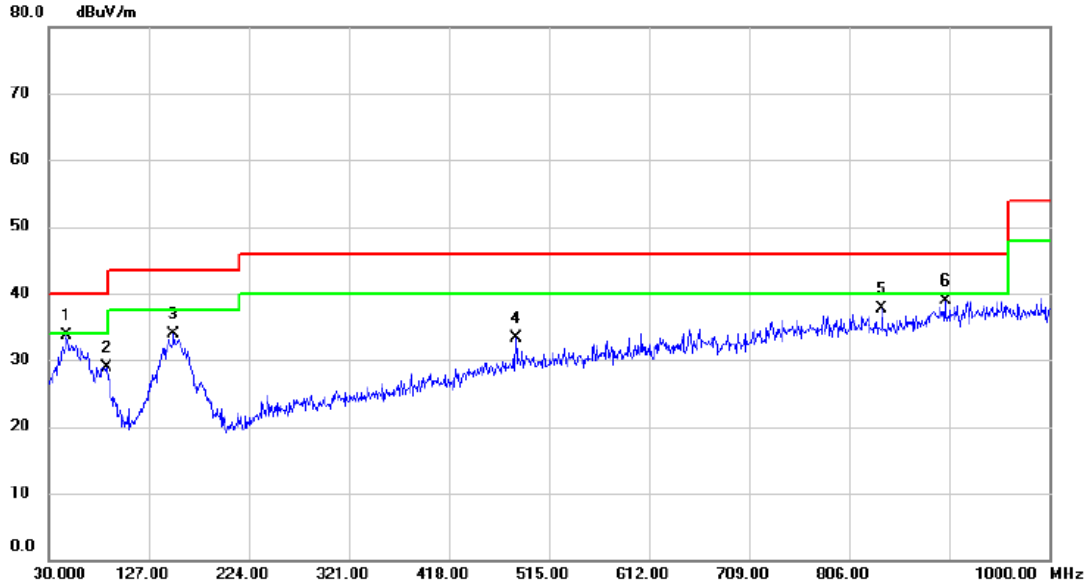


3.2.6 TEST RESULTS

Remark:

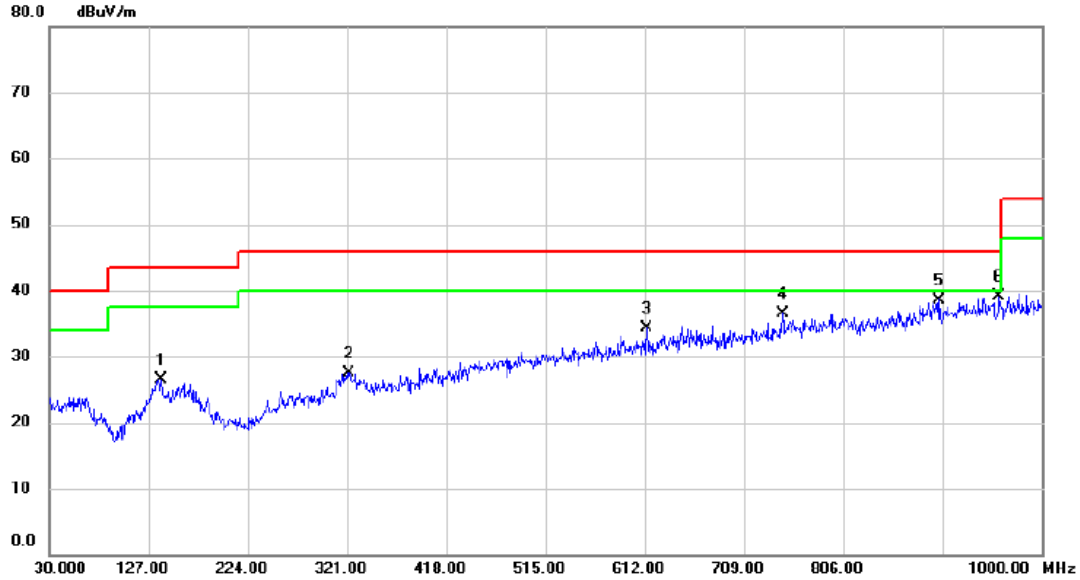
(1) Measuring frequency range from 30 MHz to 1000 MHz
(2) If the peak scan value lower limit more than 20 dB, then this signal data does not show in table.

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1 (Config2)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	47.4600	39.70	-6.06	33.64	40.00	-6.36	QP	
2		86.2600	39.37	-10.43	28.94	40.00	-11.06	QP	
3		151.2500	39.28	-5.30	33.98	43.50	-9.52	QP	
4		482.9900	31.84	1.48	33.32	46.00	-12.68	QP	
5		838.0100	29.63	8.10	37.73	46.00	-8.27	QP	
6		899.1200	29.03	9.81	38.84	46.00	-7.16	QP	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1 (Config2)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		139.6100	32.31	-5.78	26.53	43.50	-16.97	QP	
2		322.9400	30.62	-3.08	27.54	46.00	-18.46	QP	
3		613.9400	29.81	4.55	34.36	46.00	-11.64	QP	
4		746.8300	29.24	7.36	36.60	46.00	-9.40	QP	
5		900.0900	28.76	9.84	38.60	46.00	-7.40	QP	
6	*	958.2900	28.65	10.43	39.08	46.00	-6.92	QP	

3.3 RADIATED EMISSIONS ABOVE 1 GHZ

3.3.1 LIMIT

Frequency (MHz)	Class B (dBuV/m) (at 3m)	
	Peak	Average
Above 1000	74	54

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest internal frequency (Fx)	Highest measurement frequency (F_M)
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 x Fx up to a maximum of 40 GHz
Note: Fx is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

NOTE:
(1) The tighter limit applies at the band edges.
(2) Emission level (dBuV/m) = 20log Emission level (uV/m).
1m Emission level = 3m Emission level + 20log(3m/1m).
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.3.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022
2	Amplifier	Agilent	8449B	3008A02334	Jan. 22, 2023
3	Cable	mitron	RWLP50-4.0A-KJ-SMSM-12M	N/A	Sep. 23, 2022
4	Controller	MF	MF-7802BS	N/A	N/A
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	EMI Test Receiver	Keysight	N9038A	MY56400060	Jan. 22, 2023
7*	Band Reject Filter	Wairrwright Instruments Gmbh	WRCG 2400/2483-2375/2505-50/10SS	16	Feb. 28, 2024

Remark: “N/A” denotes no model name, no serial no. or no calibration specified.
“*” calibration period of equipment list is three year.
Except * item, all calibration period of equipment list is one year.

3.3.3 TEST PROCEDURE

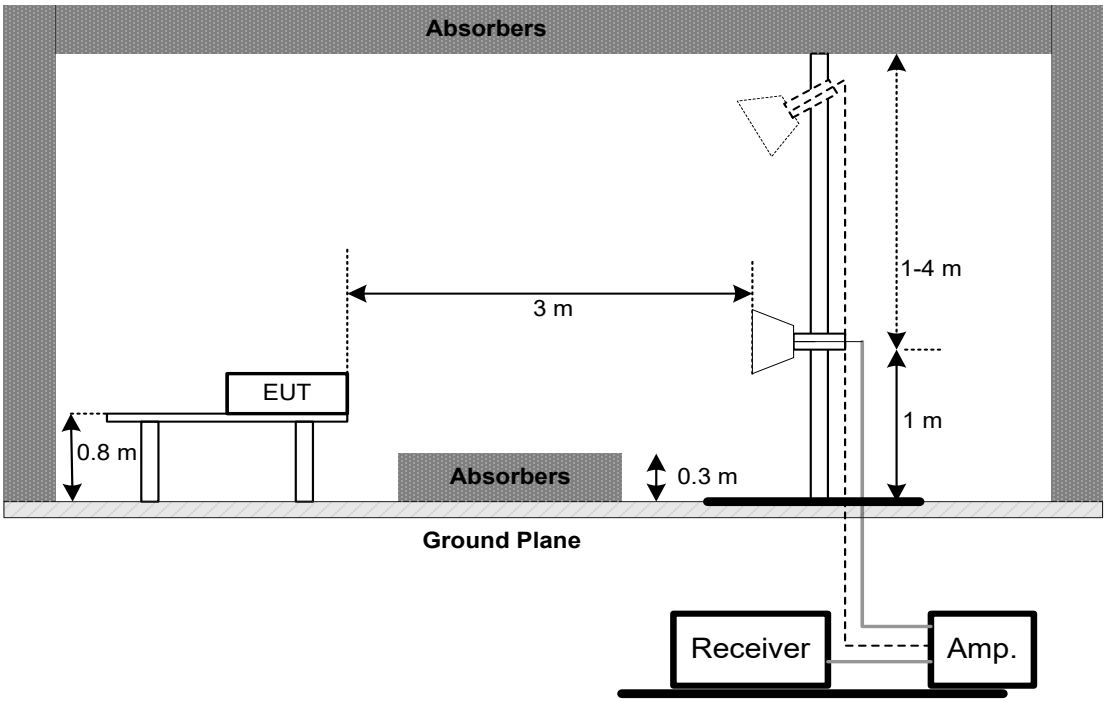
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then AVG detector mode re-measured.
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform.
g. For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation

3.3.5 TEST SETUP

Above 1 GHz

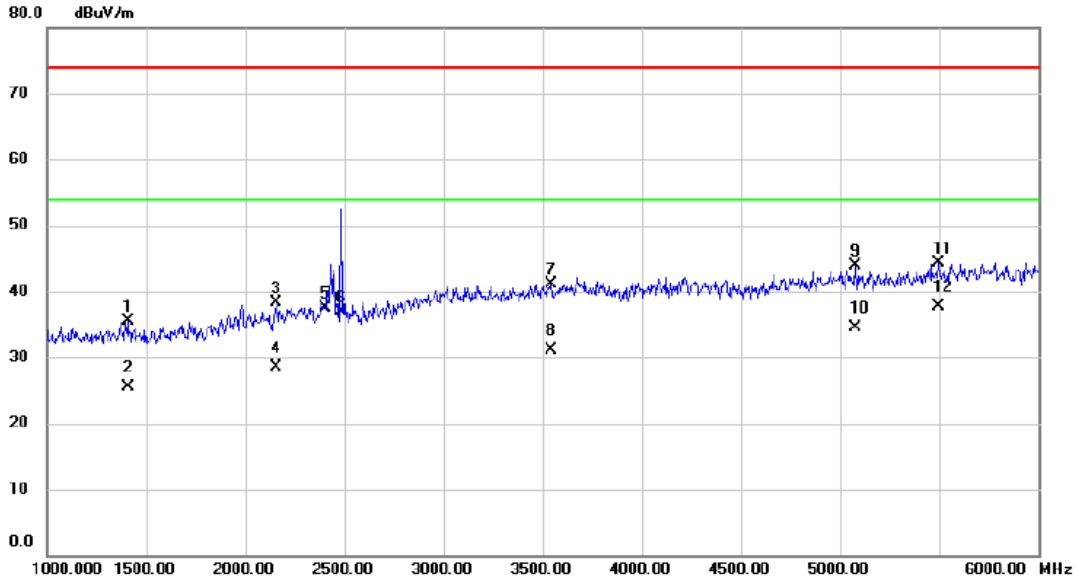


3.3.6 TEST RESULTS

Remark:

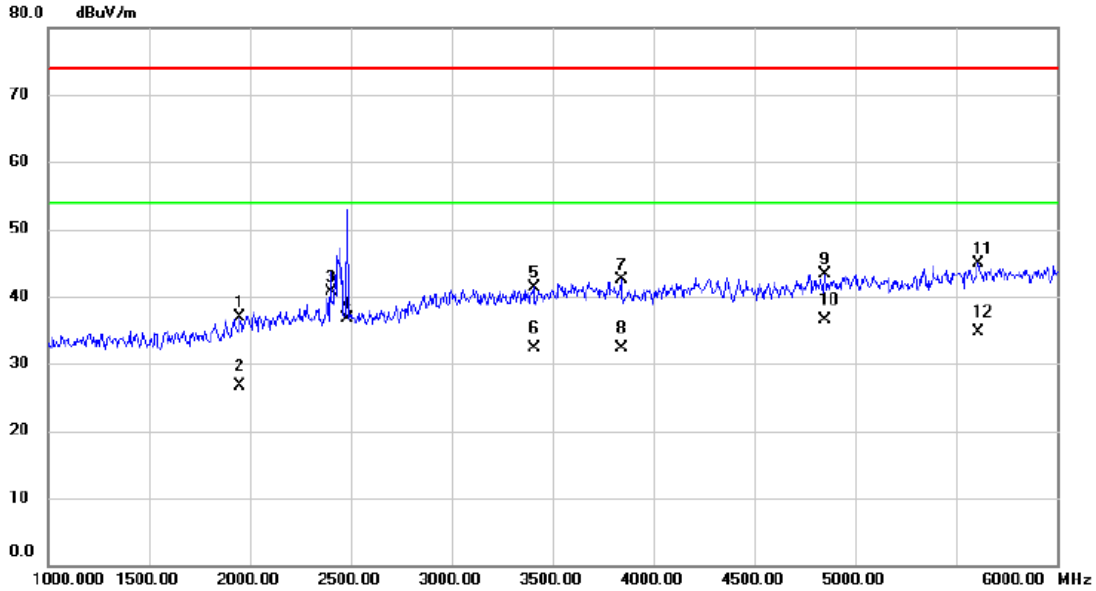
(1) Radiated emissions measured in frequency range above 1000 MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
(2) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
(3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1 (Config1)		
Note	BT(2400-2483.5MHz) is intentional transmissions, which is not applicable to the radiation emission requirements in this standard.		



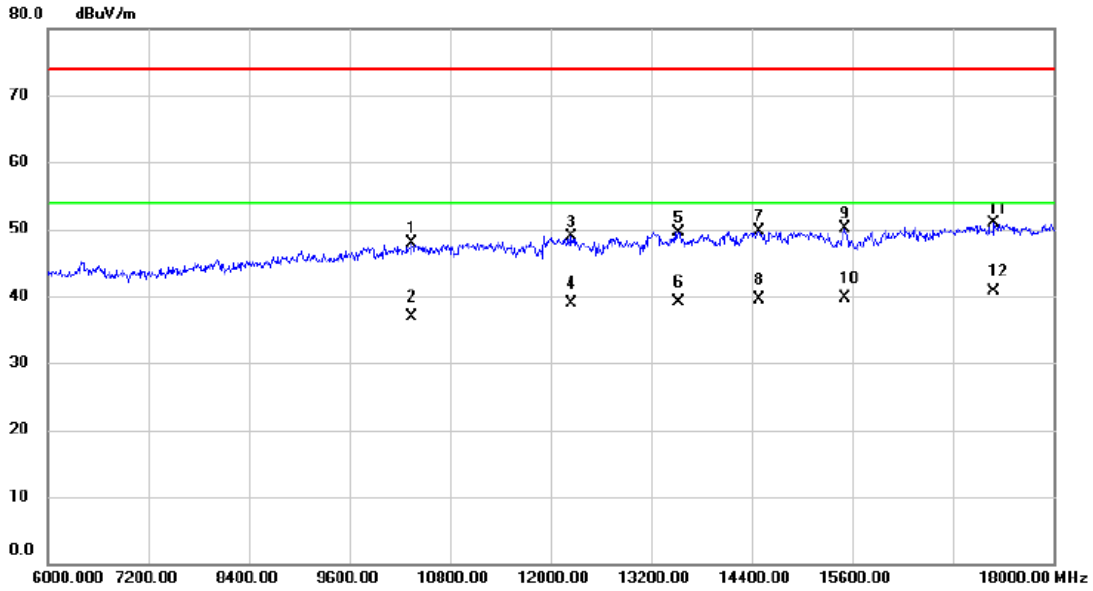
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1407.500	39.30	-3.75	35.55	74.00	-38.45	peak	
2		1407.500	29.33	-3.75	25.58	54.00	-28.42	AVG	
3		2155.000	37.53	0.79	38.32	74.00	-35.68	peak	
4		2155.000	27.62	0.79	28.41	54.00	-25.59	AVG	
5		2400.000	36.60	0.94	37.54	74.00	-36.46	peak	
6		2483.500	35.94	0.99	36.93	74.00	-37.07	peak	
7		3545.000	35.41	5.74	41.15	74.00	-32.85	peak	
8		3545.000	25.31	5.74	31.05	54.00	-22.95	AVG	
9		5077.500	34.22	9.69	43.91	74.00	-30.09	peak	
10		5077.500	24.88	9.69	34.57	54.00	-19.43	AVG	
11		5495.000	33.51	10.70	44.21	74.00	-29.79	peak	
12	*	5495.000	26.95	10.70	37.65	54.00	-16.35	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1 (Config1)		
Note	BT(2400-2483.5MHz) is intentional transmissions, which is not applicable to the radiation emission requirements in this standard.		



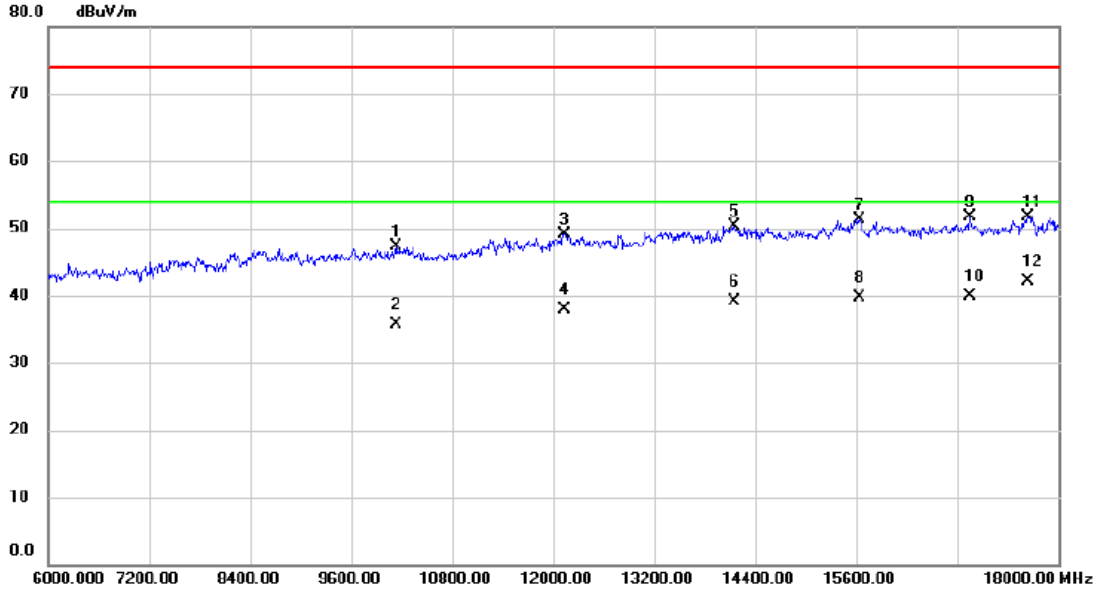
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1952.500	36.55	0.32	36.87	74.00	-37.13	peak	
2		1952.500	26.31	0.32	26.63	54.00	-27.37	AVG	
3		2400.000	39.70	0.94	40.64	74.00	-33.36	peak	
4		2483.500	35.64	0.99	36.63	74.00	-37.37	peak	
5		3407.500	36.11	5.29	41.40	74.00	-32.60	peak	
6		3407.500	26.95	5.29	32.24	54.00	-21.76	AVG	
7		3842.500	35.93	6.62	42.55	74.00	-31.45	peak	
8		3842.500	25.61	6.62	32.23	54.00	-21.77	AVG	
9		4852.500	34.30	9.00	43.30	74.00	-30.70	peak	
10	*	4852.500	27.59	9.00	36.59	54.00	-17.41	AVG	
11		5612.500	33.73	11.09	44.82	74.00	-29.18	peak	
12		5612.500	23.55	11.09	34.64	54.00	-19.36	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1 (Config1)		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10344.00	33.32	14.56	47.88	74.00	-26.12	peak	
2		10344.00	22.42	14.56	36.98	54.00	-17.02	AVG	
3		12252.00	31.21	17.69	48.90	74.00	-25.10	peak	
4		12252.00	21.16	17.69	38.85	54.00	-15.15	AVG	
5		13524.00	30.71	18.82	49.53	74.00	-24.47	peak	
6		13524.00	20.19	18.82	39.01	54.00	-14.99	AVG	
7		14484.00	28.77	20.92	49.69	74.00	-24.31	peak	
8		14484.00	18.64	20.92	39.56	54.00	-14.44	AVG	
9		15504.00	32.58	17.48	50.06	74.00	-23.94	peak	
10		15504.00	22.16	17.48	39.64	54.00	-14.36	AVG	
11		17292.00	30.31	20.60	50.91	74.00	-23.09	peak	
12	*	17292.00	20.16	20.60	40.76	54.00	-13.24	AVG	

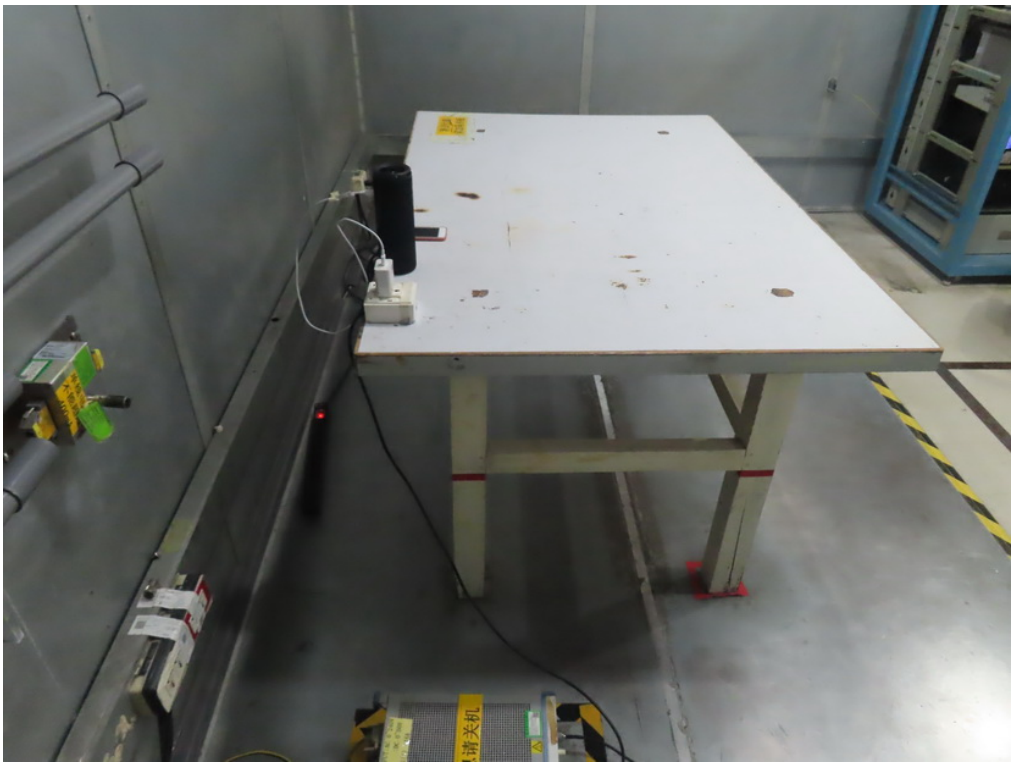
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1 (Config1)		



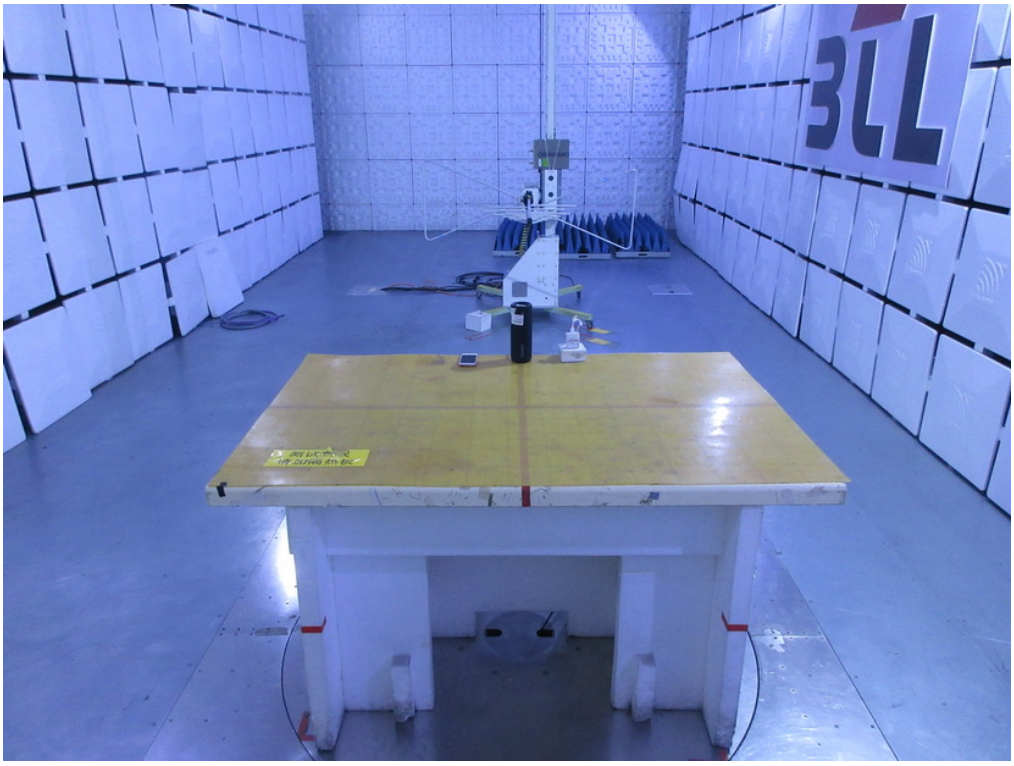
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10128.00	32.96	14.25	47.21	74.00	-26.79	peak	
2		10128.00	21.52	14.25	35.77	54.00	-18.23	AVG	
3		12132.00	31.44	17.75	49.19	74.00	-24.81	peak	
4		12132.00	20.16	17.75	37.91	54.00	-16.09	AVG	
5		14148.00	29.66	20.62	50.28	74.00	-23.72	peak	
6		14148.00	18.46	20.62	39.08	54.00	-14.92	AVG	
7		15636.00	33.75	17.56	51.31	74.00	-22.69	peak	
8		15636.00	22.16	17.56	39.72	54.00	-14.28	AVG	
9		16944.00	31.95	19.67	51.62	74.00	-22.38	peak	
10		16944.00	20.16	19.67	39.83	54.00	-14.17	AVG	
11		17640.00	30.09	21.63	51.72	74.00	-22.28	peak	
12	*	17640.00	20.41	21.63	42.04	54.00	-11.96	AVG	

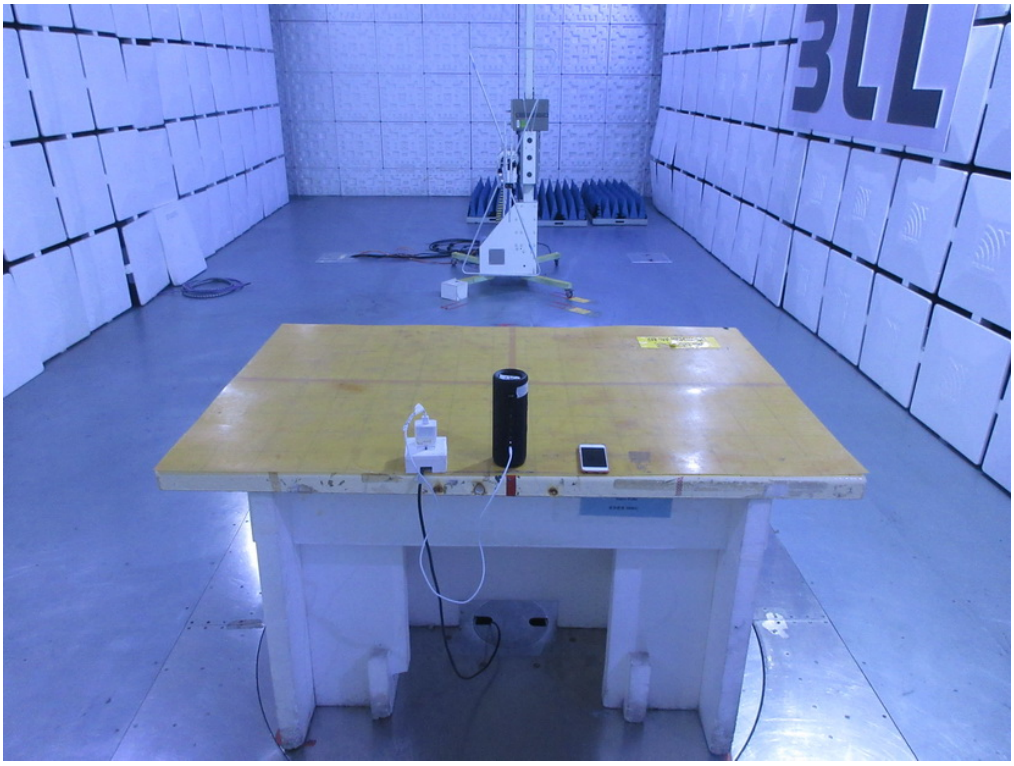
4. EUT TEST PHOTO

AC Power Line Conducted Emissions

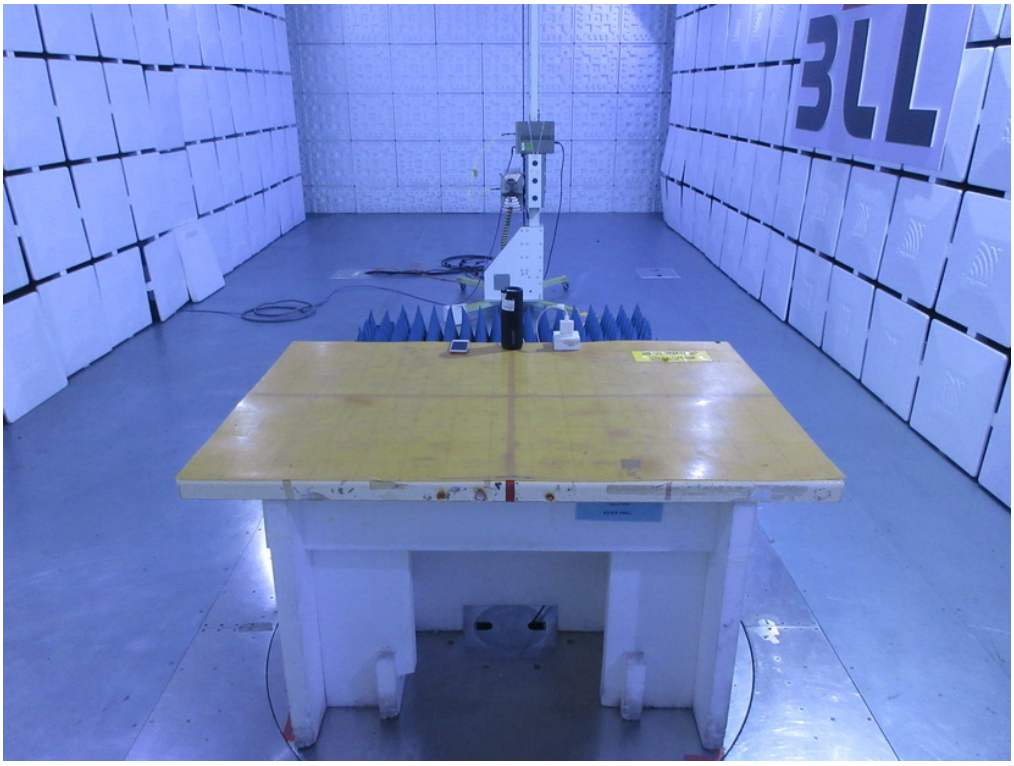


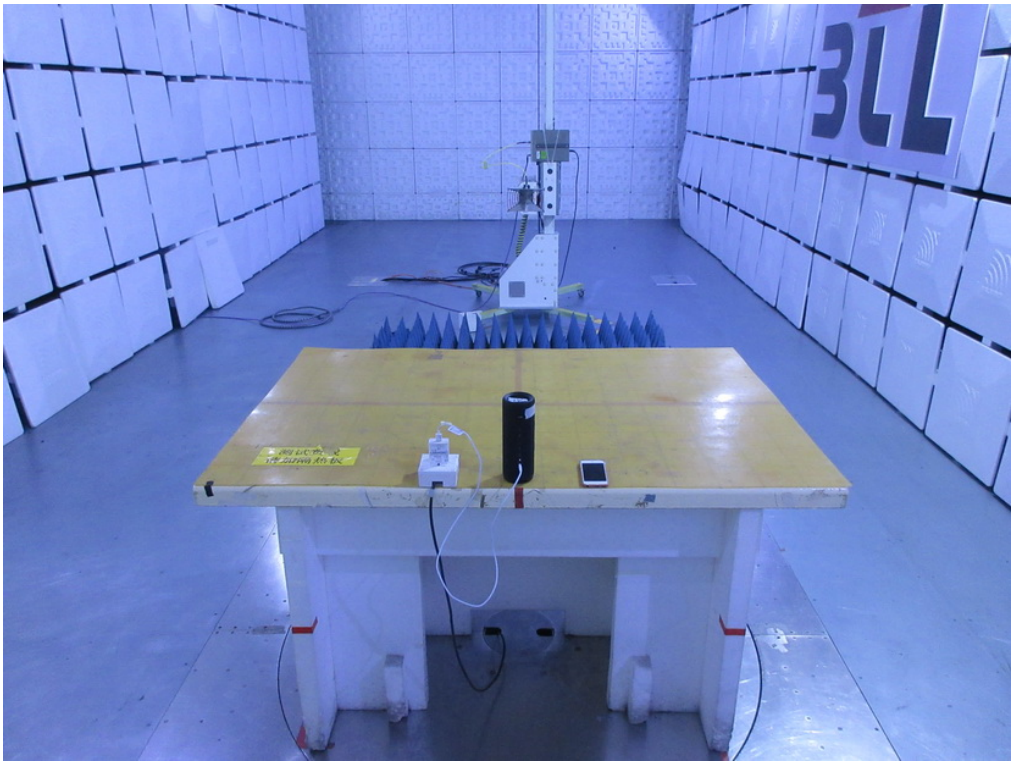
Radiated Emissions 30 MHz to 1 GHz





Radiated Emissions Above 1 GHz





End of Test Report