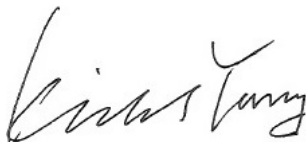


TEST REPORT

Application No.: FYCR2204000049AT
Applicant: Huawei Device Co., Ltd
Address of Applicant: No.2 of Xincheng Road, Songshan Lake Zone, Dongguan, Guangdong, 523808, P.R CHINA.
Manufacturer: Huawei Device Co., Ltd
Address of Manufacturer: No.2 of Xincheng Road, Songshan Lake Zone, Dongguan, Guangdong, 523808, P.R CHINA.
Factory: Weifang Jingwei High Tech Electronic Technology Co., Ltd.
Address of Factory: Photoelectric Industrial Park, No.999 Liyuan Street, Weifang High-Tech Industrial Development
Equipment Under Test (EUT):
EUT Name: Wireless Earphone
Model No.: T0012
Trade Mark: HUAWEI
FCC ID: 2ATEYT0012
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2022-04-01
Date of Test: 2022-04-07 to 2022-04-09
Date of Issue: 2022-04-12

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-12		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	
		<hr/>	
		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	
		<hr/>	
		Winkey Wang/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.107(a);Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4:2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g);Class B	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Left earbud:Rechargeable battery DC 3.82V 55mAh (Charge by charging box) Right earbud:Rechargeable battery DC 3.82V 55mAh (Charge by charging box) Charging box:Rechargeable battery DC 3.82V 410mAh 1.56Wh (Charge by Type C)
Cable(s):	Type C cable:20cm unshielded

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Huawei	HW-05920CHQ	K68247GBP14582
Charging Box	Huawei	T0012L	TQ4894223AA00606
Mobile Phone	HUAWEI	LYA-AL00	REF. No.SEA16C00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	± 3.1dB (Below 1GHz)
Radiated Emissions (Above 1GHz)	± 4.4dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2021/7/13	2022/7/12
Two-Line V-Network(9kHz-30MHz)	Rohde & Schwarz	ENV216	SEM007-16	2021/7/13	2022/7/12
Two-Line V-Network(9kHz-30MHz)	Rohde & Schwarz	ESH3-Z5	SEM007-22	2021/7/13	2022/7/12

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12



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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014

Limit:

0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

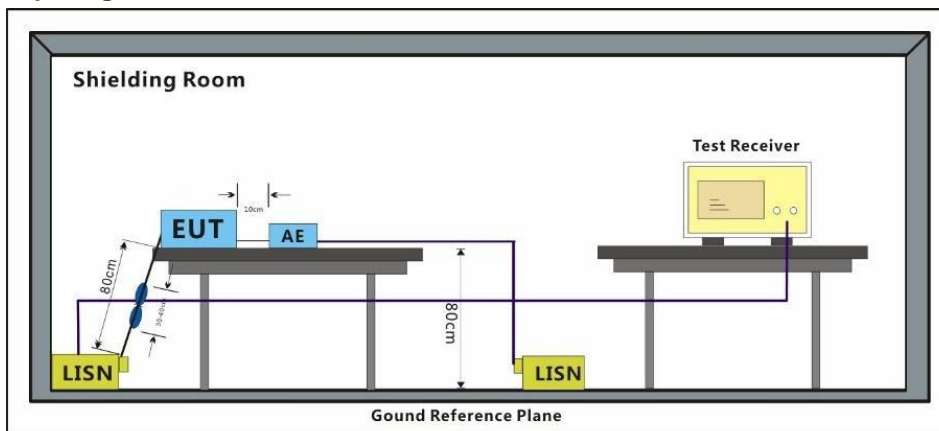
Operating Environment:

Temperature: 21.9 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charging BOX+earphone charge mode_Keep the EUT charging
Pre-scan	10	Earphone charge mode_Keep the EUT charging
Pre-scan	11	Operation(BT)_Pair the device with Smartphone via Bluetooth and keep the music playing

6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

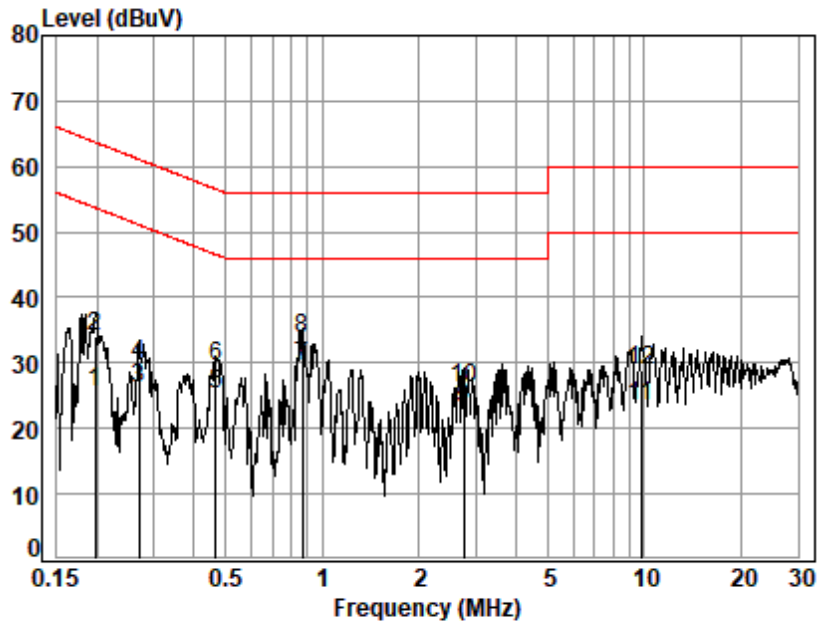
Remark: Level= Read Level+ Cable Loss+ LISN Factor



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Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00049AT
Test mode: 08

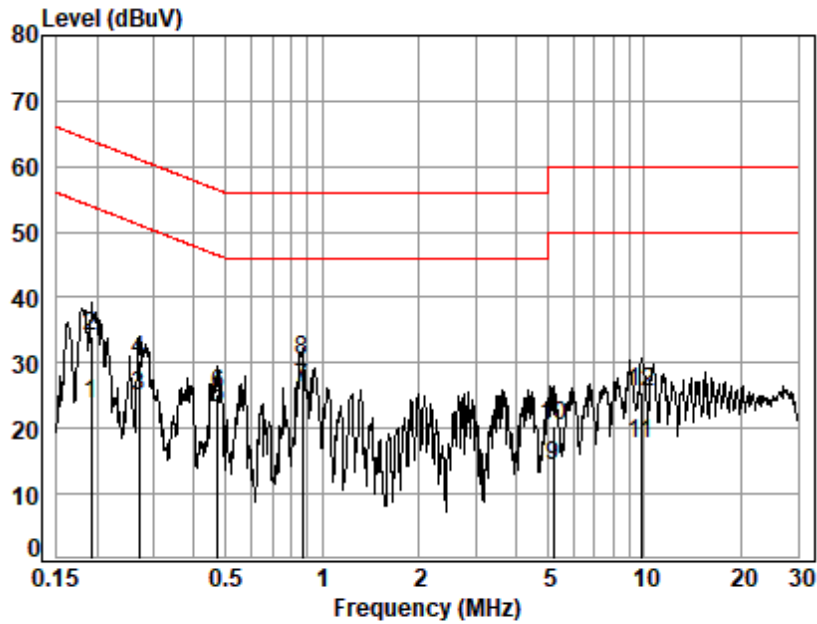
	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.20	0.02	0.10	25.56	53.71	-28.03	Average
2	0.20	0.02	0.10	33.89	63.71	-29.70	QP
3	0.27	0.03	0.10	26.12	51.12	-24.87	Average
4	0.27	0.03	0.10	29.71	61.12	-31.28	QP
5	0.47	0.06	0.10	24.96	46.54	-21.42	Average
6	0.47	0.06	0.10	29.42	56.54	-26.96	QP
7	0.87	0.08	0.12	29.31	46.00	-16.49	Average
8	0.87	0.08	0.12	33.56	56.00	-22.24	QP
9	2.75	0.16	0.17	22.72	46.00	-22.95	Average
10	2.75	0.16	0.17	25.96	56.00	-29.71	QP
11	9.76	0.17	0.42	22.78	50.00	-26.63	Average
12	9.76	0.17	0.42	28.38	60.00	-31.03	QP



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Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00049AT
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.19	0.02	0.10	23.56	53.93	-30.25	Average
2	0.19	0.02	0.10	34.07	63.93	-29.74	QP
3	0.27	0.03	0.10	24.79	51.12	-26.20	Average
4	0.27	0.03	0.10	30.29	61.12	-30.70	QP
5	0.47	0.06	0.11	22.81	46.45	-23.47	Average
6	0.47	0.06	0.11	25.15	56.45	-31.13	QP
7	0.87	0.08	0.12	25.84	46.00	-19.96	Average
8	0.87	0.08	0.12	30.24	56.00	-25.56	QP
9	5.22	0.17	0.25	14.02	50.00	-35.56	Average
10	5.22	0.17	0.25	20.09	60.00	-39.49	QP
11	9.76	0.17	0.39	17.19	50.00	-32.25	Average
12	9.76	0.17	0.39	24.90	60.00	-34.54	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBµV/m (At 10m)	dBµV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

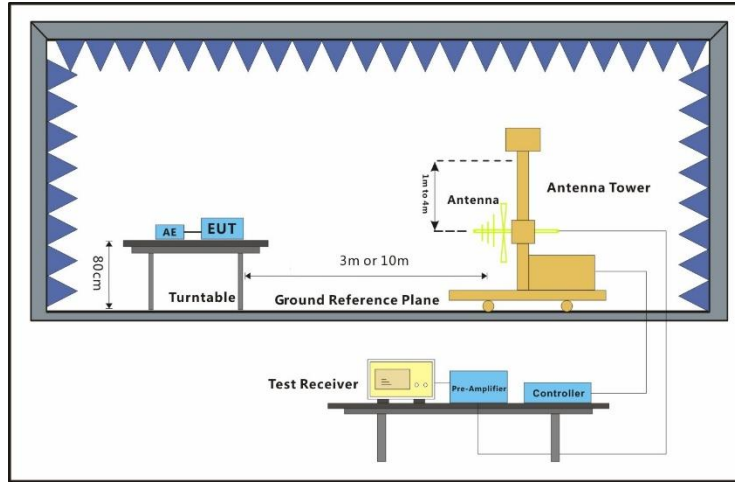
Pre-scan / Final test	Mode Code	Description
Final test	08	Charging BOX+earphone charge mode_Keep the EUT charging
Pre-scan	10	Earphone charge mode_Keep the EUT charging
Final test	11	Operation(BT)_Pair the device with Smartphone via Bluetooth and keep the music playing



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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

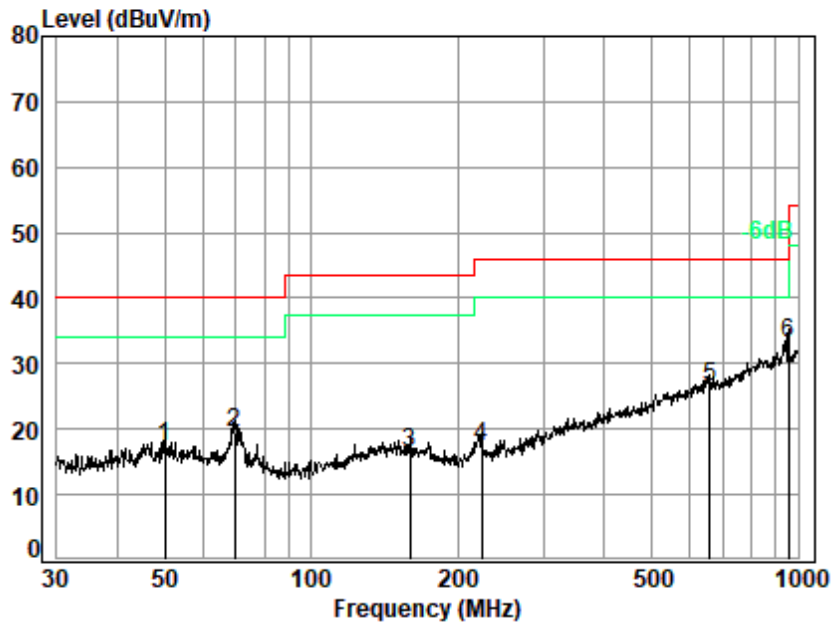
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00049AT
Mode : 08

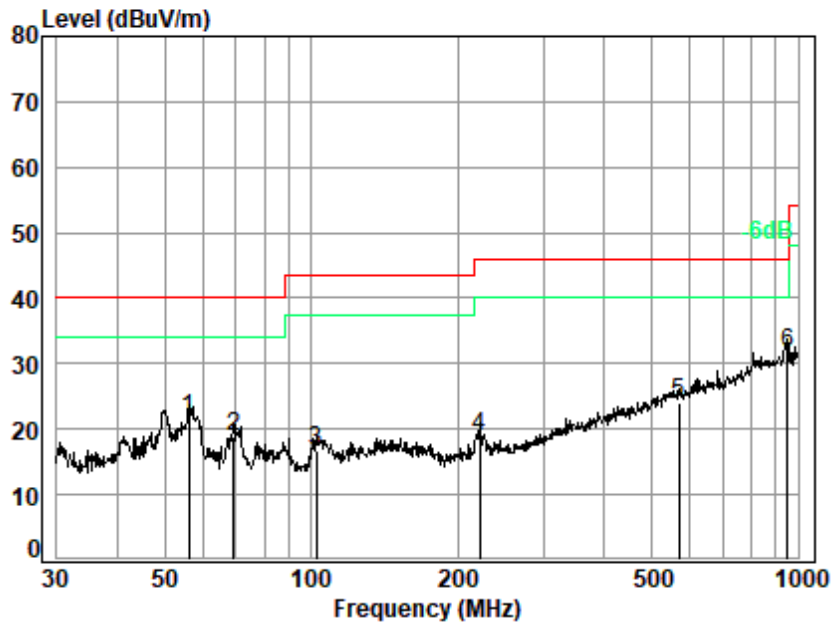
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	50.057	0.22	17.38	25.86	25.67	17.41	40.00	-22.59	QP
2	69.600	0.29	16.02	25.83	28.90	19.38	40.00	-20.62	QP
3	159.225	0.79	17.23	25.50	23.95	16.47	43.50	-27.03	QP
4	223.733	0.76	15.92	25.29	25.93	17.32	46.00	-28.68	QP
5	658.836	1.98	25.33	26.73	25.79	26.37	46.00	-19.63	QP
6 p	955.438	2.13	29.30	26.28	28.01	33.16	46.00	-12.84	QP



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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00049AT
Mode : 08

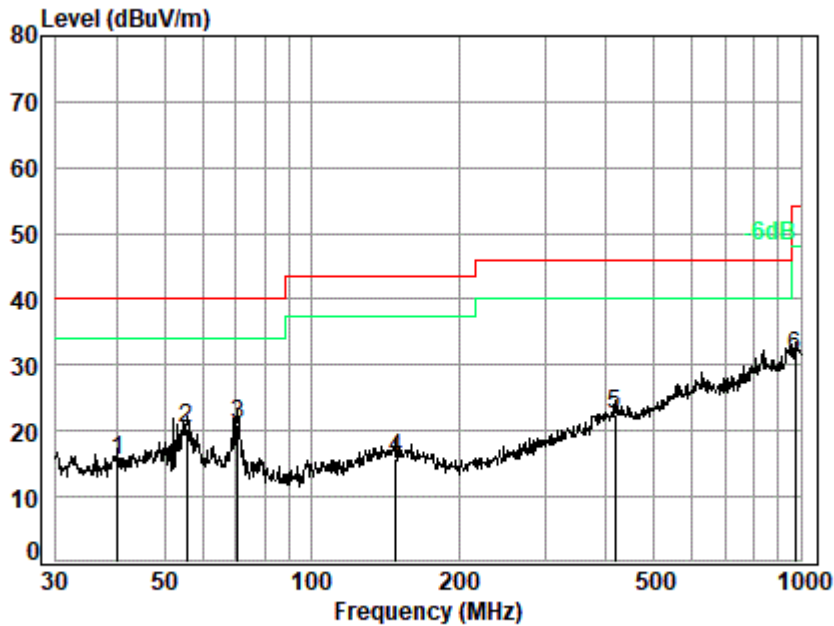
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.001	0.23	17.24	25.85	29.98	21.60	40.00	-18.40	QP
2	69.114	0.28	16.12	25.83	28.15	18.72	40.00	-21.28	QP
3	102.360	0.85	14.62	25.79	27.09	16.77	43.50	-26.73	QP
4	221.392	0.75	15.87	25.29	27.59	18.92	46.00	-27.08	QP
5	568.613	1.93	23.82	26.67	24.98	24.06	46.00	-21.94	QP
6 p	952.094	2.09	29.27	26.29	26.58	31.65	46.00	-14.35	QP



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Test Mode: 11; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00049AT
Mode : 11

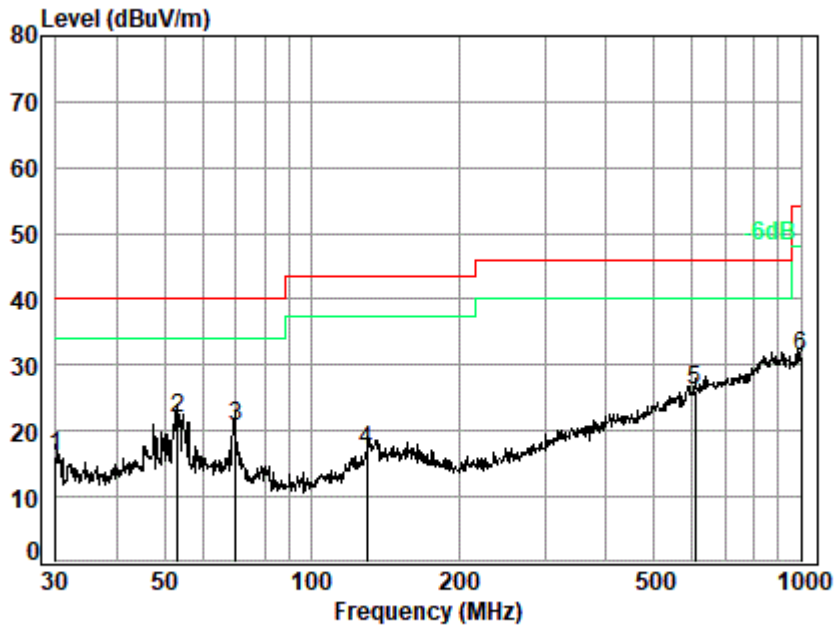
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.1347	0.20	16.76	25.88	24.32	15.40	40.00	-24.60 QP
2	55.4147	0.23	17.25	25.85	28.69	20.32	40.00	-19.68 QP
3 p	70.5836	0.30	15.76	25.83	30.86	21.09	40.00	-18.91 QP
4	148.4410	0.86	17.43	25.55	22.98	15.72	43.50	-27.78 QP
5	416.1791	1.62	21.01	25.90	25.82	22.55	46.00	-23.45 QP
6	972.3373	2.33	29.10	26.25	26.24	31.42	54.00	-22.58 QP



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Test Mode: 11; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00049AT
Mode : 11

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.0000	0.18	16.39	25.90	25.32	15.99	40.00	-24.01 QP
2 p	53.1313	0.23	17.27	25.85	30.39	22.04	40.00	-17.96 QP
3	69.8450	0.29	15.96	25.83	30.37	20.79	40.00	-19.21 QP
4	129.9226	0.92	16.61	25.63	25.14	17.04	43.50	-26.46 QP
5	607.7867	2.12	24.48	26.79	26.24	26.05	46.00	-19.95 QP
6	1000.0000	2.64	29.28	26.20	25.46	31.18	54.00	-22.82 QP



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6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Measurement Distance: 3m

Limit:
Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance
Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

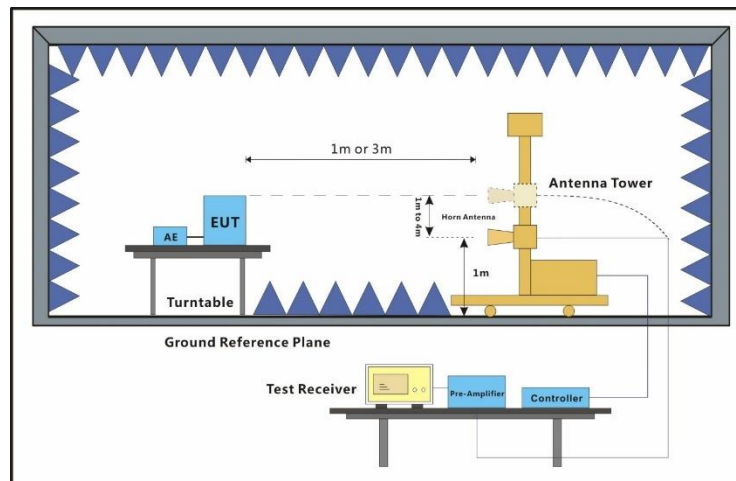
6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charging BOX+earphone charge mode_Keep the EUT charging
Pre-scan	10	Earphone charge mode_Keep the EUT charging
Final test	11	Operation(BT)_Pair the device with Smartphone via Bluetooth and keep the music playing

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

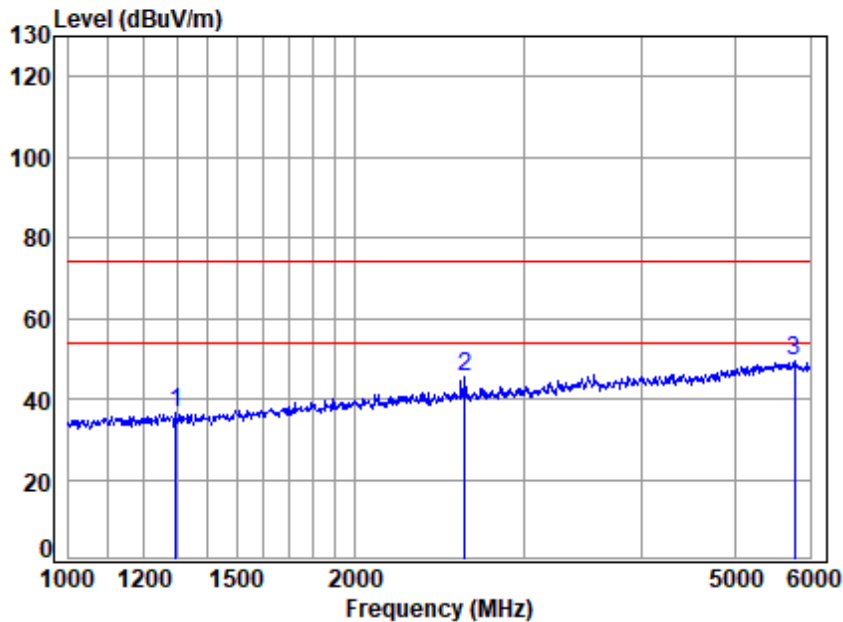
The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 08; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00049AT/00050AT
 Mode : 08

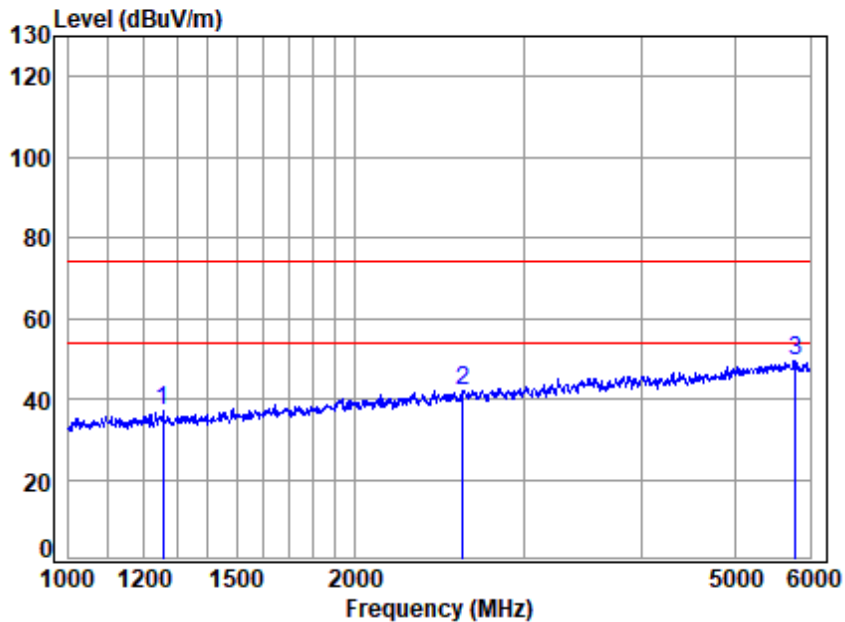
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1294.356	3.36	24.25	46.49	55.44	36.56	74.00	-37.44 Peak
2	2603.351	5.26	27.67	46.63	59.32	45.62	74.00	-28.38 Peak
3 p	5778.433	7.91	32.49	46.60	55.45	49.25	74.00	-24.75 Peak



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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00049AT/00050AT
Mode : 08

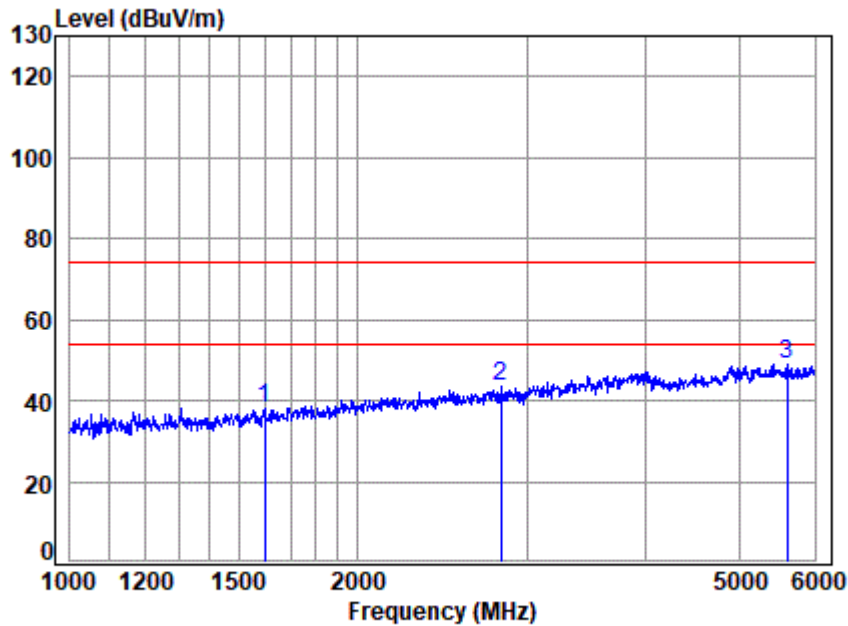
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1255.525	3.27	24.27	46.50	56.02	37.06	74.00	-36.94 Peak
2	2594.039	5.25	27.64	46.62	55.92	42.19	74.00	-31.81 Peak
3 p	5788.796	7.90	32.48	46.60	55.82	49.60	74.00	-24.40 Peak



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Test Mode: 11; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00049AT/00050AT
Mode : 11

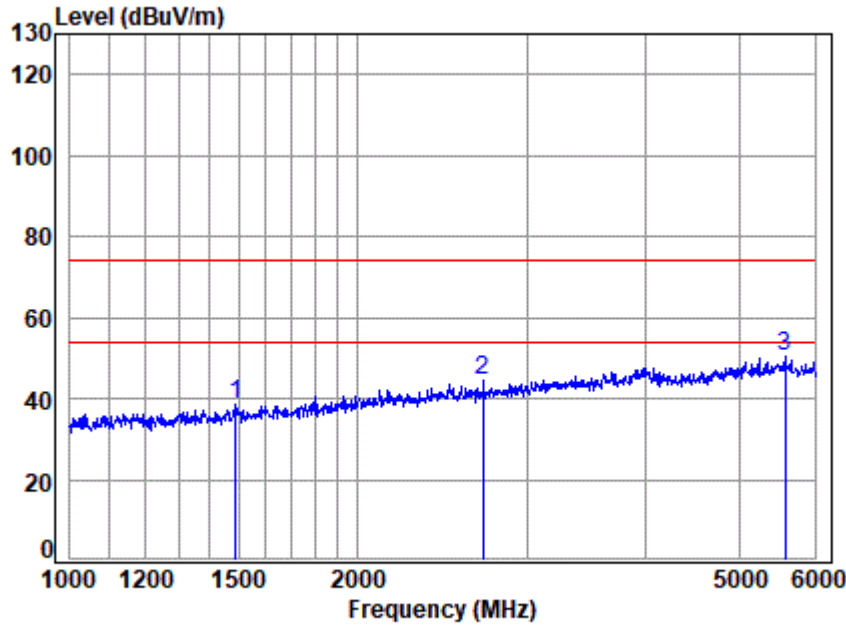
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1599.1000	3.99	24.80	46.40	55.90	38.29	74.00	-35.71	Peak
2 2816.9000	5.52	28.19	46.72	56.32	43.31	74.00	-30.69	Peak
3 p5615.1280	8.12	32.55	46.68	55.13	49.12	74.00	-24.88	Peak



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Test Mode: 11; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00049AT/00050AT
Mode : 11

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1491.1720	3.75	24.48	46.43	56.81	38.61	74.00	-35.39	Peak
2 2703.1740	5.38	27.91	46.67	57.94	44.56	74.00	-29.44	Peak
3 p5585.0260	8.16	32.56	46.70	56.43	50.45	74.00	-23.55	Peak



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7 Test Setup Photo

Refer to Appendix – Setup Photo for FYCR2204000049AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2204000049AT

- End of the Report -



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