

FCC TEST REPORT
FCC ID: YJW-11548PG

On Behalf of

Superior communications .

3-in-1 wireless charger

Model No.: 11548PG, 11578PL, MDW04

Prepared for : Superior communications .
Address : 5027 Irwindale Ave. Suite Irwindale Ave California United States.

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2504030-C01-R01
Date of Receipt : March 10, 2025
Date of Test : March 10, 2025 to April 10, 2025
Date of Report : April 10, 2025
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Superior communications .

Address : 5027 Irwindale Ave. Suite Irwindale Ave California United States.

Manufacturer : Shenzhen Megix Technology Co.,LtdShenzhen Megix Technology Co.,Ltd

Address : Room 602, Building 1, Happy Cold Chain Factory, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong

EUT Description : 3-in-1 wireless charger

(A) Model No. : 11548PG, 11578PL, MDW04

(B) Trademark : Puregear

Measurement Standard Used:

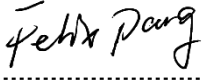
FCC CFR Title 47 Part 15 Subpart C

ANSI C63.10:2013

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC CFR Title 47 Part 15 Subpart C requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:	Felix Pang Test Engineer	
Approved by (name + signature).....:	Simple Guan Project Manager	
Date of issue.....:	April 10, 2025	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	April 10, 2025	Initial released Issue	Felix Pang

1. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209	PASS
Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. *PASS: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*
5. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

2. General Information

2.1. Description of Device (EUT)

EUT Name	: 3-in-1 wireless charger
Model No.	: 11548PG, 11578PL, MDW04
DIFF.	: 11548PG is tested model, other models are derivative models . The models are identical in circuit, only different on the model names. So the test data of 11548PG can represent the remaining models.
Power supply	: Input: 9 V  2 A, 12 V  2 A Outout1: 5W / 7.5W / 10W / 15W Max (Mobile phone) Output2: (Air pods 3W) (Mobile Phone 5W) Output3: 2.5W Max (iWatch)
Radio Technology	: Wireless power transmission systems
Operation frequency	: Mobile phone: 111-205KHz Air pods: 111-205KHz iWatch: 300-350KHz
Modulation	: MSK
Antenna Type	: Coil Antenna
Connector cable loss	: 0dB
Software version	: V1.0
Hardware version	: V1.0
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

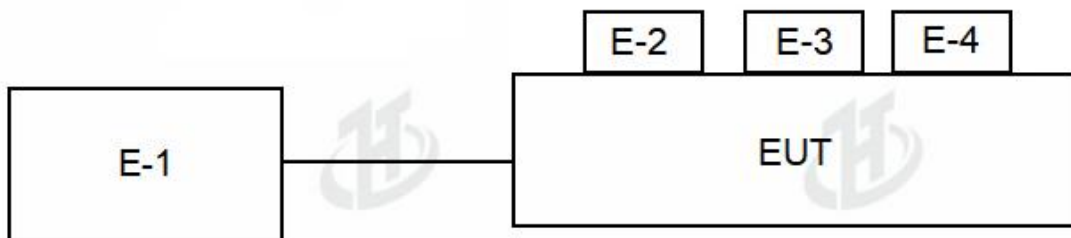
2.2. Accessories of Device (EUT)

Accessories	:	N/A
Manufacturer	:	N/A
Model	:	N/A
specifications	:	N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
E-1	AC Adapter	Xiaomi	MDY-12-ED	N/A	N/A
E-2	Mobile phone	Xiaomi	Xiaomi 12S Pro	N/A	N/A
E-3	Mobile phone	Xiaomi	Xiaomi 11	N/A	N/A
E-4	Apple watch	Apple Inc.	ultra 2	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Test Modes:	
Mode 1	AC Adapter+Wireless charging mode (Phone: Battery Status: $\leq 1\%$)
Mode 2	AC Adapter+Wireless charging mode (Phone: Battery Status:50%)
Mode 3	AC Adapter+Wireless charging mode (Phone: Battery Status: $\geq 98\%$)
Mode 4	AC Adapter+Wireless charging mode (Air Pods or Phone: Phone Battery Status: $\leq 1\%$)
Mode 5	AC Adapter+Wireless charging mode (Air Pods or Phone: Phone Battery Status:50%)
Mode 6	AC Adapter+Wireless charging mode (Air Pods or Phone: Phone Battery Status: $\geq 98\%$)
Mode 7	AC Adapter+Wireless charging mode (iWatch: Battery Status: $\leq 1\%$)
Mode 8	AC Adapter+Wireless charging mode (iWatch: Battery Status:50%)
Mode 9	AC Adapter+Wireless charging mode (iWatch: Battery Status: $\geq 98\%$)
Mode 10	AC Adapter+Wireless charging mode (Phone: Battery Status: $\leq 1\%$) + (Air Pods or Phone: Phone Battery Status: $\leq 1\%$)
Mode 11	AC Adapter+Wireless charging mode (Phone: Battery Status: $\leq 1\%$) + (iWatch: Battery Status: $\leq 1\%$)
Mode 12	AC Adapter+Wireless charging mode (Air Pods or Phone: Phone Battery Status: $\leq 1\%$) + (iWatch: Battery Status: $\leq 1\%$)
Mode 13	AC Adapter+Wireless charging mode (Phone: Battery Status: $\leq 1\%$) + (Air Pods or Phone: Phone Battery Status: $\leq 1\%$) + (iWatch: Battery Status: $\leq 1\%$)
Note: All modes and coil were tested, only the worst-case was recorded in the report. Mode 13 is the worst mode.	

2.6. Test Conditions

Items	Required
Temperature range:	15-35℃
Humidity range:	25-75%
Pressure range:	86-106kPa

2.7. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power Line Conducted Emissions Test	2.17dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	2.74dB(Polarize: V)
	2.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)	4.29dB(Polarize: V)
	4.82dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	48.24KHz
Uncertainty for conducted RF Power	0.41dB
Occupied Bandwidth	968Hz

2.9. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G18 G-45dB	SK202203290 1	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118G -45	SK202001080 1	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02- 1111533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P00 8	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10A	202211251638	/	2024.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2024.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2024.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2024.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2024.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2024.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2024.12.18	1 Year

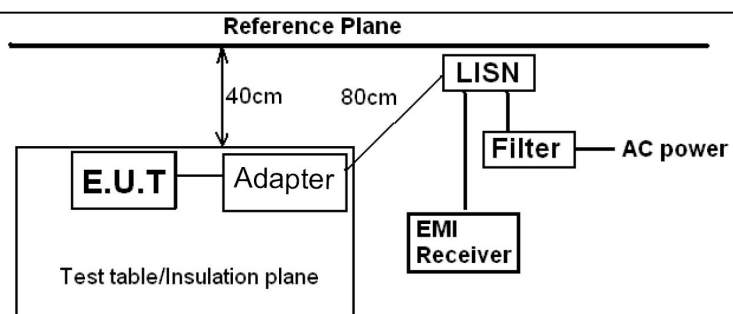
For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EZ EMC	Farad	PSI-3A1
CE	EZ EMC	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

3. Test Results and Measurement Data

3.1. Conducted Emission

3.1.1. Test Specification

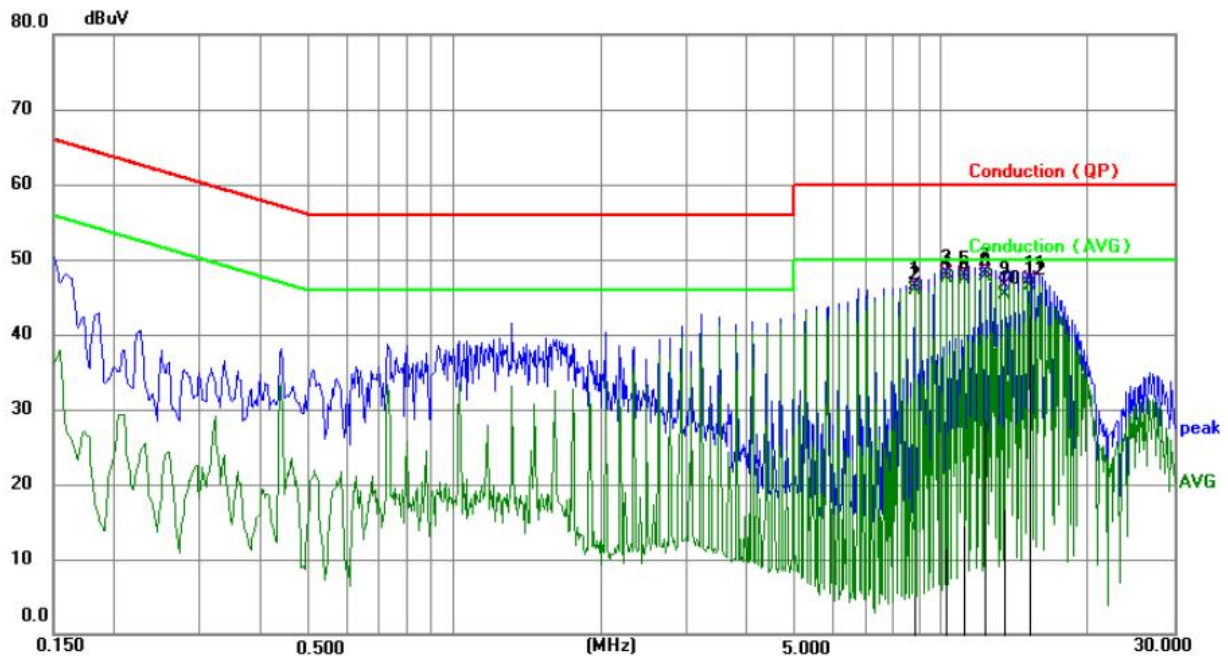
Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane  40cm 80cm E.U.T Adapter Test table/Insulation plane LISN Filter AC power EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Transmitting Mode														
Test Procedure:	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	PASS														

3.1.2. Test data

Please refer to following diagram for individual

Test Mode	: Mode 13
Test Results	: PASS
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

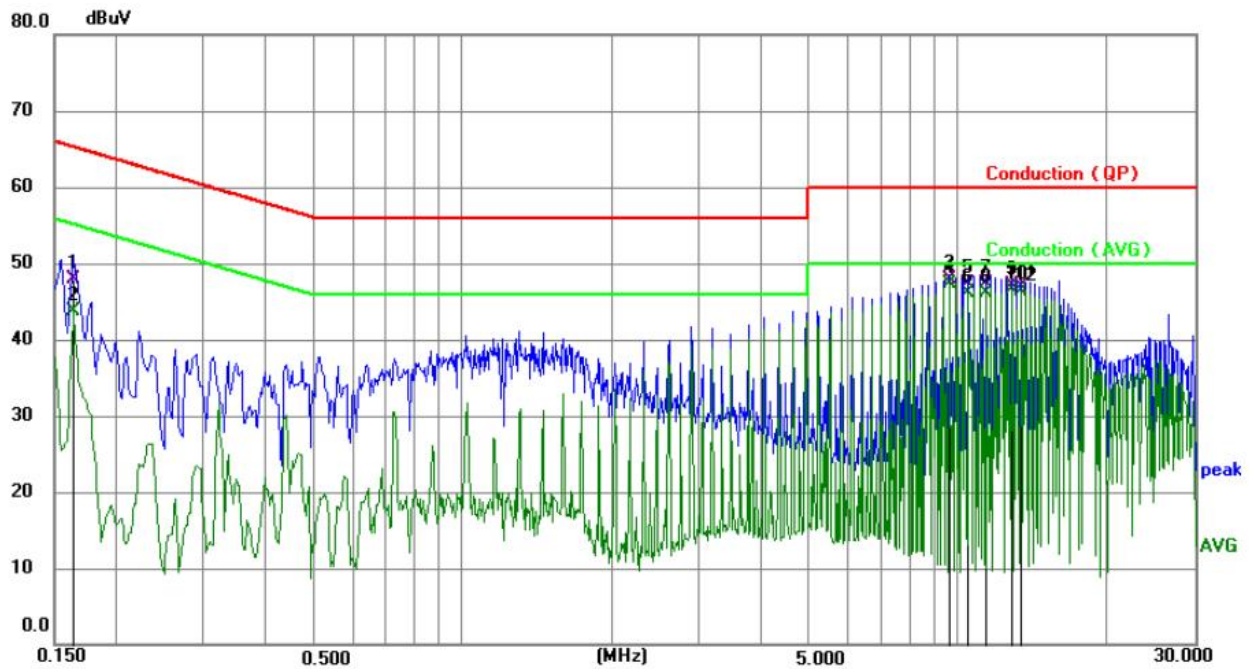
Temperature	26℃	Humidity	54%
Pol	Line		AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	8.7810	36.47	10.09	46.56	60.00	-13.44	QP	P	
2	8.7810	35.76	10.09	45.85	50.00	-4.15	AVG	P	
3	10.2434	38.12	10.08	48.20	60.00	-11.80	QP	P	
4	10.2434	37.50	10.08	47.58	50.00	-2.42	AVG	P	
5	11.1210	37.92	10.08	48.00	60.00	-12.00	QP	P	
6	11.1210	37.15	10.08	47.23	50.00	-2.77	AVG	P	
7	12.2955	38.21	10.09	48.30	60.00	-11.70	QP	P	
8 *	12.2955	37.60	10.09	47.69	50.00	-2.31	AVG	P	
9	13.4655	36.51	10.09	46.60	60.00	-13.40	QP	P	
10	13.4655	35.27	10.09	45.36	50.00	-4.64	AVG	P	
11	15.2250	37.20	10.10	47.30	60.00	-12.70	QP	P	
12	15.2250	36.35	10.10	46.45	50.00	-3.55	AVG	P	

Level = Reading + Factor Margin = Level - Limit

Pol	Neutral
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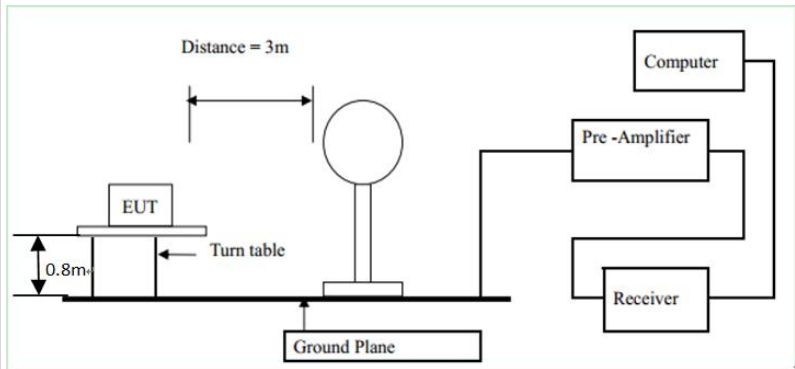


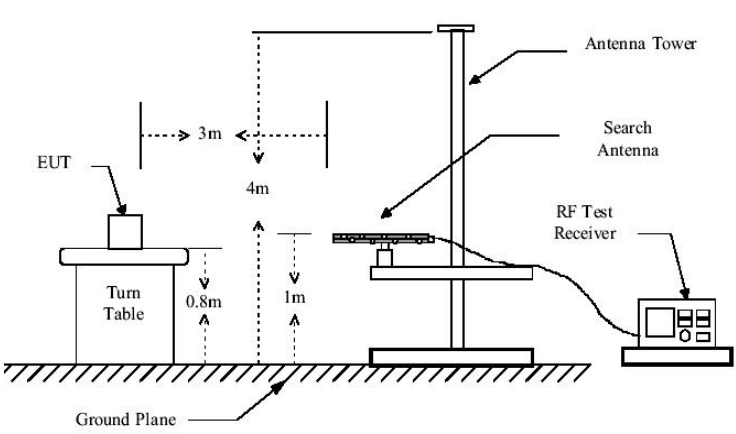
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	38.00	9.90	47.90	65.28	-17.38	QP	P	
2	0.1635	33.79	9.90	43.69	55.28	-11.59	AVG	P	
3	9.6000	37.81	10.09	47.90	60.00	-12.10	QP	P	
4 *	9.6000	37.13	10.09	47.22	50.00	-2.78	AVG	P	
5	10.4685	37.22	10.08	47.30	60.00	-12.70	QP	P	
6	10.4685	36.12	10.08	46.20	50.00	-3.80	AVG	P	
7	11.3460	37.22	10.08	47.30	60.00	-12.70	QP	P	
8	11.3460	35.98	10.08	46.06	50.00	-3.94	AVG	P	
9	12.7995	37.11	10.09	47.20	60.00	-12.80	QP	P	
10	12.7995	36.33	10.09	46.42	50.00	-3.58	AVG	P	
11	13.3800	36.91	10.09	47.00	60.00	-13.00	QP	P	
12	13.3800	36.18	10.09	46.27	50.00	-3.73	AVG	P	

Level = Reading + Factor Margin = Level - Limit

3.2. Radiated Spurious Emission Measurement

3.2.1. Test Specification

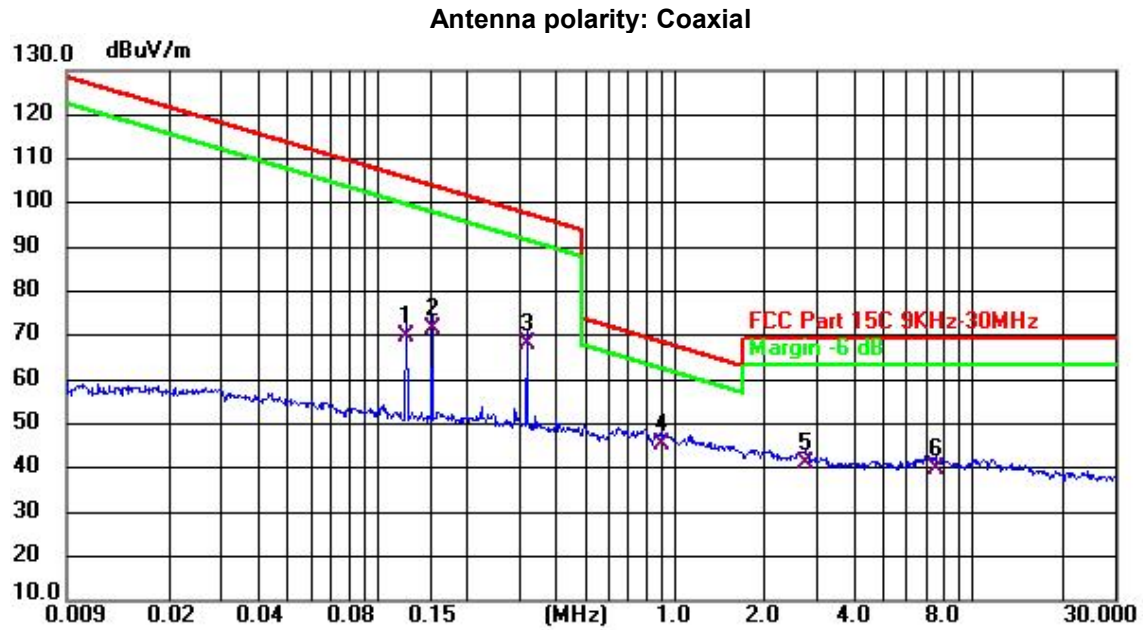
Test Requirement:	FCC Part15 C Section 15.209																											
Test Method:	ANSI C63.10: 2013																											
Frequency Range:	9 kHz to 1 GHz																											
Measurement Distance:	3 m																											
Antenna Polarization:	Coaxial & Coplanar(9KHz-30MHz) Horizontal & Vertical(30MHz-1GHz)																											
Operation mode:	Refer to item 4.1																											
Receiver Setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr><tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value			
	Frequency	Detector	RBW	VBW	Remark																							
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value																							
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value																							
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																							
Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except 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.																												
Limit:	<table><tr><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td></tr><tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>30</td></tr><tr><td>1.705-30</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>				Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	0.009-0.490	2400/F(KHz)	300	0.490-1.705	24000/F(KHz)	30	1.705-30	30	30	30-88	100	3	88-216	150	3	216-960	200	3	Above 960	500	3
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)																									
	0.009-0.490	2400/F(KHz)	300																									
	0.490-1.705	24000/F(KHz)	30																									
	1.705-30	30	30																									
	30-88	100	3																									
	88-216	150	3																									
	216-960	200	3																									
Above 960	500	3																										
Test setup:	For radiated emissions below 30MHz																											
																												
	30MHz to 1GHz																											

	
Test Procedure:	1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold; For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS

3.2.2. Test Data

Please refer to following diagram for individual

Frequency Range	: 9KHz~30MHz
Test Mode	: Mode 13
Test Results	: PASS
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.



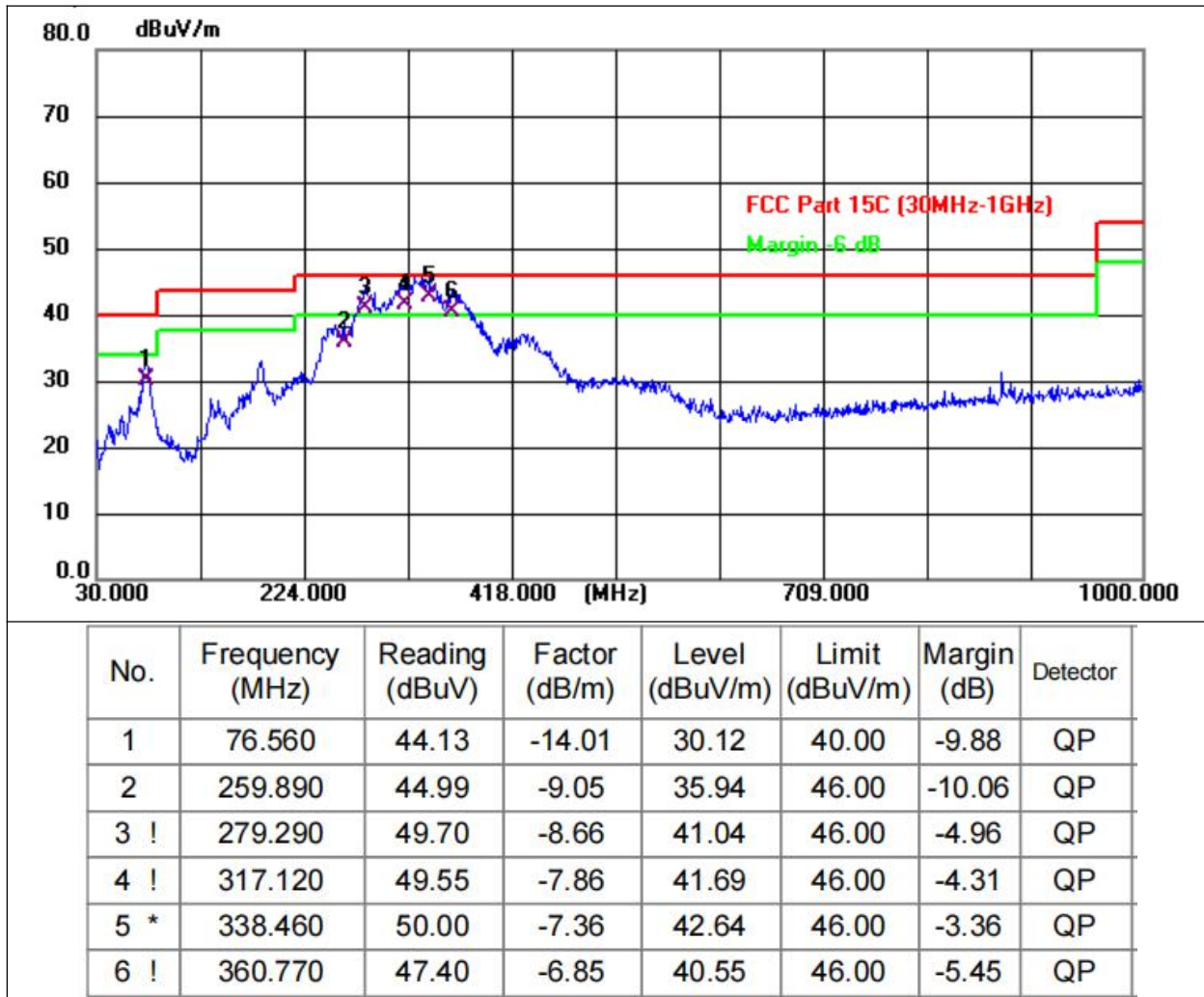
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.125	69.84	0.16	70.00	105.67	-35.67	Peak
2	0.153	71.30	0.16	71.46	103.91	-32.45	Peak
3	0.319	67.15	0.77	67.92	97.53	-29.61	Peak
4 *	0.895	43.49	1.91	45.40	68.57	-23.17	QP
5	2.719	35.39	5.63	41.02	69.54	-28.52	QP
6	7.494	24.47	15.31	39.78	69.54	-29.76	QP

Level = Reading + Factor Margin = Level – Limit

Frequency Range	: 30MHz~1000MHz
Test Mode	: Mode 13
Test Results	: PASS
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.

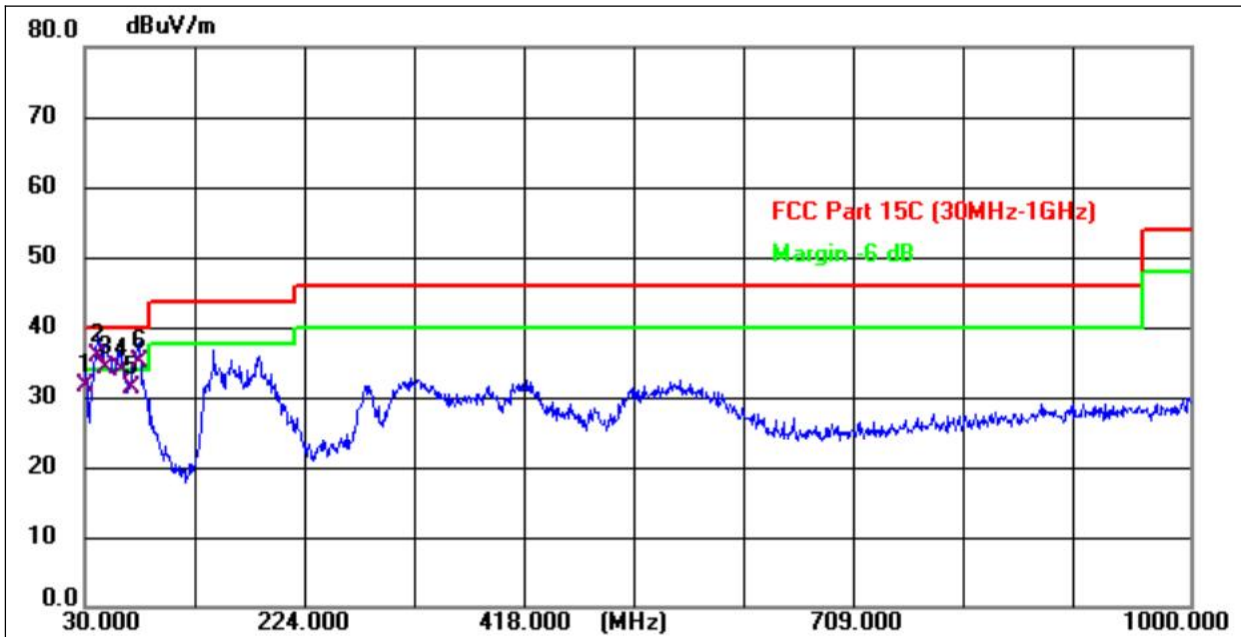
30MHz-1GHz

Temperature	26℃	Humidity	54%
Pol	Vertical	Test Voltage	AC 120V/60Hz



Level = Reading + Factor Margin = Level – Limit

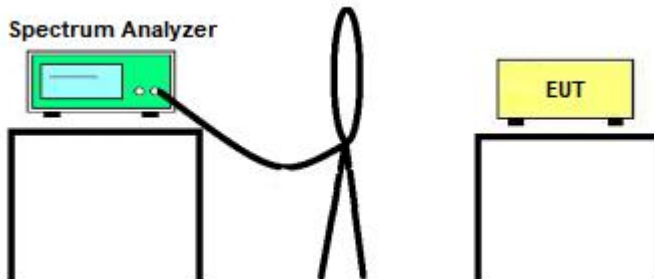
Pol	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.000	39.83	-8.24	31.59	40.00	-8.41	QP
2 *	40.670	44.38	-8.60	35.78	40.00	-4.22	QP
3 !	48.430	43.49	-9.22	34.27	40.00	-5.73	QP
4	62.010	44.98	-11.22	33.76	40.00	-6.24	QP
5	71.710	44.90	-13.51	31.39	40.00	-8.61	QP
6 !	77.530	49.04	-14.11	34.93	40.00	-5.07	QP

Level = Reading + Factor Margin = Level – Limit

3.3. Test Specification

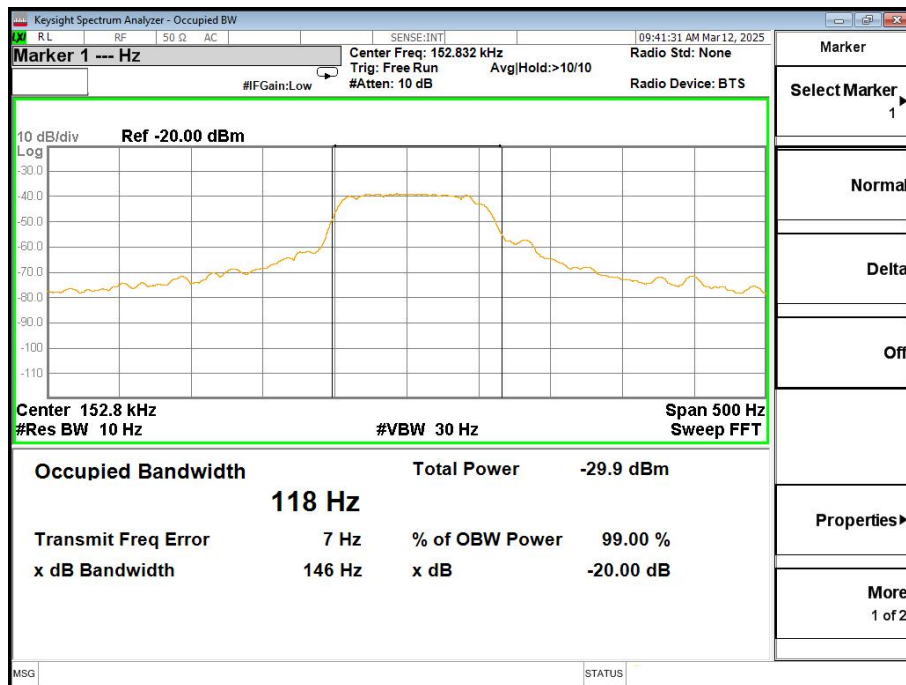
Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW$\geq$1% of the 20 dB bandwidth; VBW$\geq$RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 The diagram illustrates the test setup. On the left, a 'Spectrum Analyzer' is shown on a stand. A cable connects it to an artificial antenna, represented by a vertical rod with a loop at the top. To the right of the antenna, an 'EUT' (Equipment Under Test) is shown on a stand. The antenna is positioned between the Spectrum Analyzer and the EUT, indicating its role in measuring the emissions from the EUT.
Test Mode:	Refer to section 4.1 for details
Test results:	PASS

3.3.1. Test data

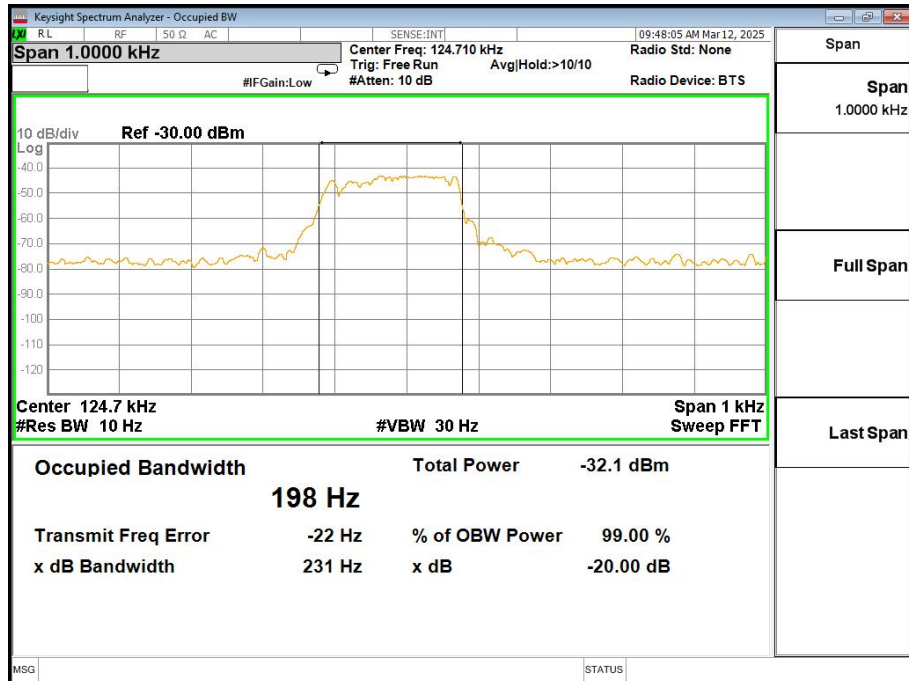
Temperature :	25.7 °C	Relative Humidity :	55%
Pressure :	101kPa		

	Frequency (KHz)	20dB bandwidth (KHz)	Result
Mobile phone Antenna	152.8	0.146	Pass
Air pods Antenna	124.7	0.231	Pass
iWatch Antenna	318.8	1.582	Pass

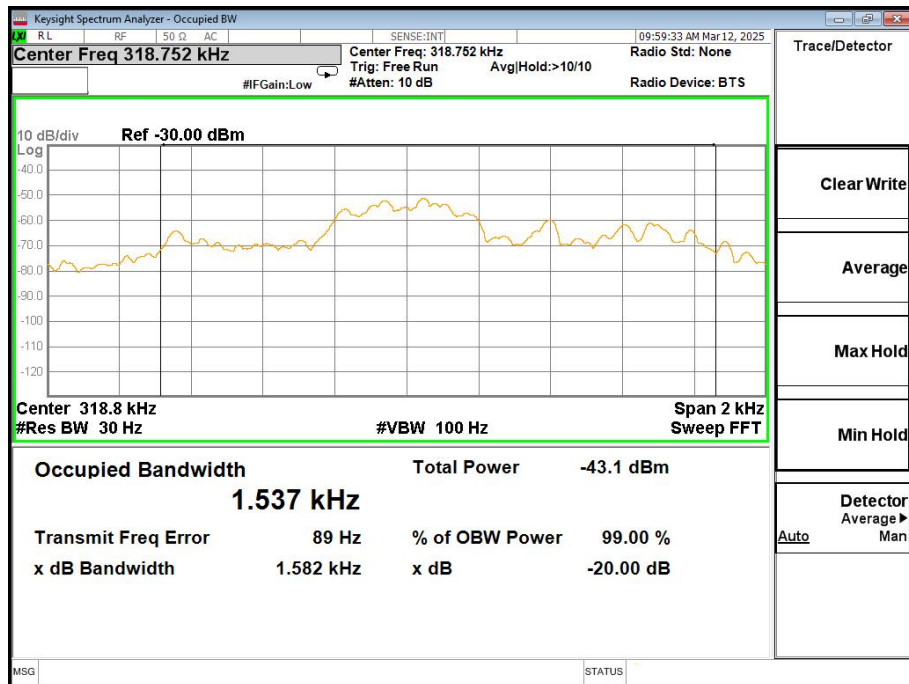
Mobile phone Antenna



Air pods Antenna



iWatch Antenna



4. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

5. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----