

FCC TEST REPORT

FCC ID:2A5UA-W72E

Applicant Name..... : Shenzhen Autige Technology Co., Ltd

Address..... : 3rd Floor, Building A, Zhaofeng Industrial Zone, No. 3 Hangkong Road, Hangcheng Street, Baoan District, 518126, Shenzhen, China

Manufacturer Name..... : Shenzhen Autige Technology Co., Ltd

Address..... : 3rd Floor, Building A, Zhaofeng Industrial Zone, No. 3 Hangkong Road, Hangcheng Street, Baoan District, 518126, Shenzhen, China

Product..... : 3 in 1 Wireless Charger

Model(s)..... : W72E

Additional Model(s)..... : /

Trademark..... : /

Model Difference..... : /

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : Aug. 7, 2026

Date of Test(s)..... : Aug. 7, 2026 - Aug. 31, 2026

Date of Issue..... : Aug. 31, 2026

Test Requested..... : Select test(s) as requested by the client.

Test Standard(s)..... : FCC CFR Title 47 Part 15 Subpart C

Test procedure..... : ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024

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

Prepared by:

Kimi Lu

Kimi Lu/ Engineer

Reviewed by:

Baret Wu

Baret Wu/ Director



Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.



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1. TEST SUMMARY

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	3 in 1 Wireless Charger
Test Model No:	W72E
Hardware version:	V1.0
Software version:	V1.0
Operation Frequency:	Mobile Phone: 115-205kHz for Mobile Phone coil 1 Earphone: 115-205kHz for Earphone coil 2 Watch: 325KHz±5KHz for Watch coil 3
Modulation type:	ASK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Input:9V/3A Wireless charging output: Mobile Phone Output: 15W, 10W, 7.5W, 5W Earphone Output: 5W Max Watch Output:2.5W
Sample Number:	260807104YP001
Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	



2.2 TEST MODE

Test Modes:	
Mode 1	AC Adapter+ Mobile Phone + Earphone + Watch (Battery Status: <1%)
Mode 2	AC Adapter+ Mobile Phone + Earphone + Watch (Battery Status: <50%)
Mode 3	AC Adapter+ Mobile Phone + Earphone + Watch (Battery Status: ≥98%)
Mode 4	AC Adapter+ Mobile Phone (Battery Status: <1%)
Mode 5	AC Adapter+ Mobile Phone (Battery Status: <50%)
Mode 6	AC Adapter+ Mobile Phone (Battery Status: ≥98%)
Mode 7	AC Adapter+ Earphone (Battery Status: <1%)
Mode 8	AC Adapter+ Earphone (Battery Status: <50%)
Mode 9	AC Adapter+ Earphone (Battery Status: ≥98%)
Mode 10	AC Adapter+ Watch (Battery Status: <1%)
Mode 11	AC Adapter+ Watch (Battery Status: <50%)
Mode 12	AC Adapter+ Watch (Battery Status: ≥98%)
Mode 13	AC Adapter+ Mobile Phone + Earphone (Battery Status: <1%)
Mode 14	AC Adapter+ Mobile Phone + Earphone (Battery Status: <50%)
Mode 15	AC Adapter+ Mobile Phone + Earphone (Battery Status: ≥98%)
Mode 16	AC Adapter+ Mobile Phone + Watch (Battery Status: <1%)
Mode 17	AC Adapter+ Mobile Phone + Watch (Battery Status: <50%)
Mode 18	AC Adapter+ Mobile Phone + Watch (Battery Status: ≥98%)
Mode 19	AC Adapter+ Earphone + Watch (Battery Status: <1%)
Mode 20	AC Adapter+ Earphone + Watch (Battery Status: <50%)
Mode 21	AC Adapter+ Earphone + Watch (Battery Status: ≥98%)
Mode 22	Standby mode
Note: All modes were tested, only the worst-case was recorded in the report. Mode 1 is the worst mode.	

2.3 BLOCK DIAGRAM OF EUT CONFIGURATION



2.4 TEST CONDITIONS

Temperature: 25.6℃

Relative Humidity: 54.3%RH

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.	Note
E-1	AC Adapter	iFory Limited	191106C	/	AE
E-2	AirPods 4 (ANC)	Apple Inc.	A3059	/	AE
E-3	Apple watch	Apple Inc.	ultra 2	/	AE
E-4	Mobile phone	Apple Inc.	iPhone 15 Pro	/	AE

Item	Shielded Type	Ferrite Core	Length	Note

Note:	
(1)	The support equipment was authorized by Declaration of Confirmation.
(2)	For detachable type I/O cable should be specified the length in cm in 『Length』 column.
(3)	“YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

3. TEST FACILITY AND TEST INSTRUMENT USED

3.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. :Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

3.2 INSTRUMENT LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
2	Loop Antenna	TESEQ	HLA6121	58357	ZH-E036	Sept. 8, 2025	Sept. 7, 2026
3	Amplifier	Schwarzbeck	BBV 9743 B	00378	ZH-E019	Apr. 24, 2026	Apr. 23, 2027
4	Amplifier	Schwarzbeck	BBV 9718 B	00040	ZH-E021	May 8, 2026	May 7, 2027
5	Bilog Antenna	Schwarzbeck	VULB9162	00498	ZH-E017	Apr. 25, 2026	Apr. 24, 2027
6	Horn Antenna	Schwarzbeck	BBHA9120D	02623	ZH-E020	Apr. 25, 2026	Apr. 24, 2027
7	Horn Antenna	A.H.SYSTEMS	SAS574	588	ZH-E062	Oct. 20, 2025	Oct. 19, 2026
8	Amplifier	AEROFLEX	100KHz-40GHz	097	ZH-E063	Oct. 20, 2025	Oct. 19, 2026
9	Spectrum Analyzer	R&S	FSV40	101413	ZH-E064	Apr. 24, 2026	Apr. 23, 2027
10	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	ZH-E032	Apr. 24, 2026	Apr. 23, 2027
11	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	ZH-E033	Apr. 24, 2026	Apr. 23, 2027
12	Single Generator	Agilent	N5182A	MY48180575	ZH-E034	Apr. 24, 2026	Apr. 23, 2027
13	Power Sensor	MWRFtest	MW100-RFCB	/	ZH-E066	Apr. 24, 2026	Apr. 23, 2027
14	CABLE	EMToni	DA800-NM-NM-11000MM	/	ZH-E018	Apr. 24, 2026	Apr. 23, 2027

Conduction Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
2	LISN	R&S	ENV216	102794	ZH-E006	Jul. 8, 2026	Jul. 7, 2027
3	ISN CAT 6	Schwarzbeck	NTFM 8158	00318	ZH-E012	Apr. 24, 2026	Apr. 23, 2027
4	ISN CAT 5	Schwarzbeck	CAT5 8158	00343	ZH-E013	Apr. 24, 2026	Apr. 23, 2027
5	Capacitive Voltage Probe	Schwarzbeck	CVP 9222C	00101	ZH-E014	May 8, 2026	May 7, 2027
6	Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	ZH-E015	May 8, 2026	May 7, 2027
7	CABLE	EMToni	RG223-NM-BNCM-2000MM	/	ZH-E007	Apr. 24, 2026	Apr. 23, 2027

3.3 TESTING SOFTWARE

Project	Software name	Edition
Conducted Emission	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission	EZ-EMC	FA-03A2 RE+
RF Test	MTS 8310	4.0.0.0

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	0.92dB
2	RF conducted power	0.16dB
3	Conducted spurious emissions	0.21dB
4	All radiated emissions (9k-30MHz)	4.68dB
5	All radiated emissions (30-1GHz)	5.1dB
6	All radiated emissions (1-6GHz)	3.9dB
7	All radiated emissions (6GHz-18GHz)	4.3dB
8	All radiated emissions (18-40GHz)	4.65dB
9	Temperature	0.5°C
10	Humidity	2%
11	Occupied Bandwidth	4.96%

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	QP	AVG	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

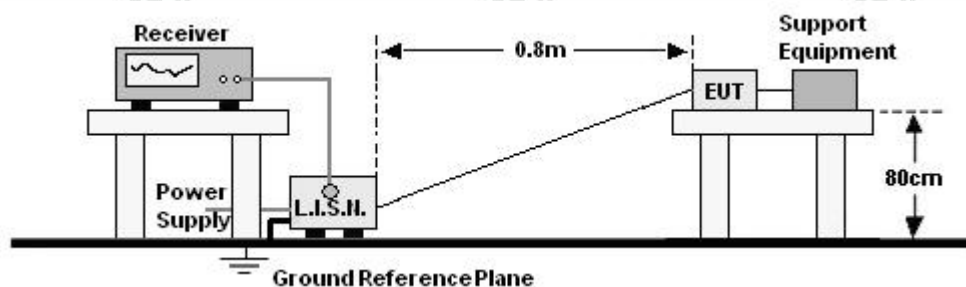
4.1.2 TEST PROCEDURE

- 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 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



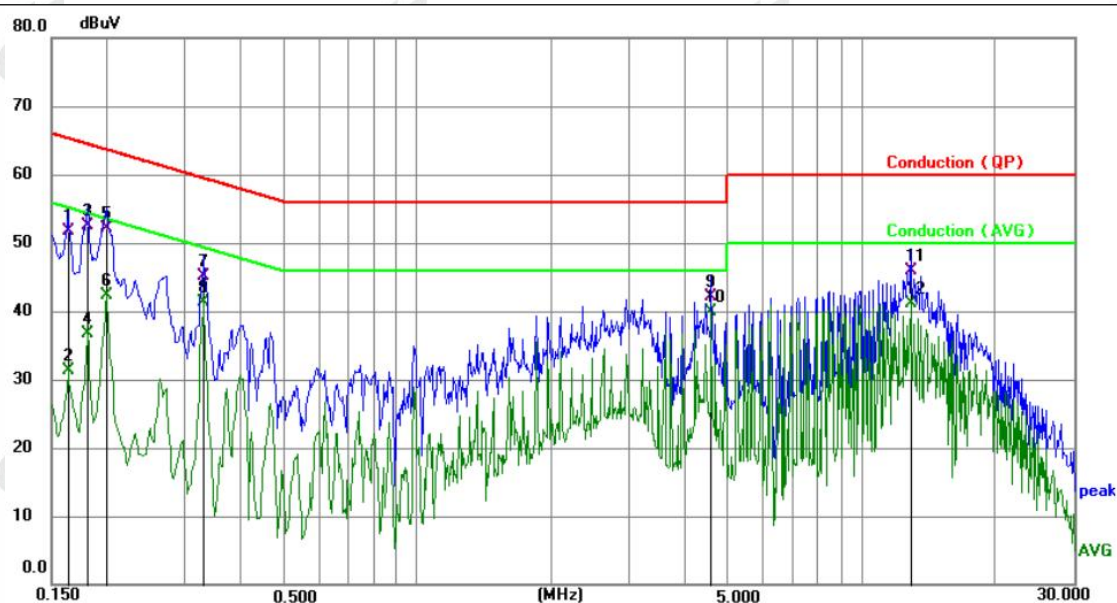
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULT

Temperature:	24.6°C	Relative Humidity:	54.8%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



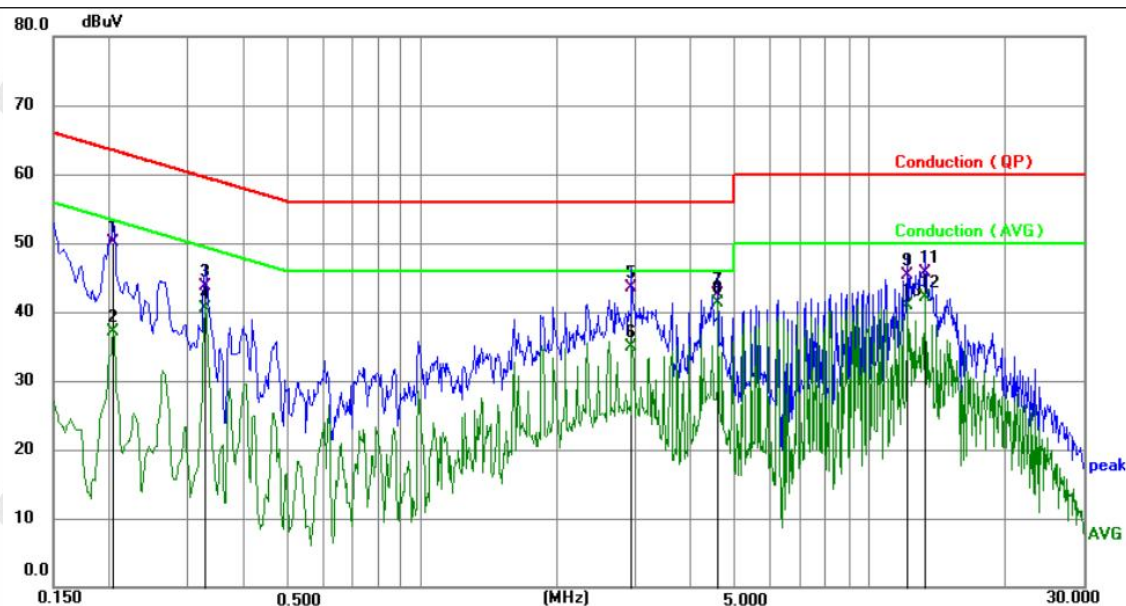
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1632	41.89	9.90	51.79	65.30	-13.51	QP	P
2	0.1632	21.36	9.90	31.26	55.30	-24.04	AVG	P
3	0.1805	42.68	9.90	52.58	64.46	-11.88	QP	P
4	0.1805	26.73	9.90	36.63	54.46	-17.83	AVG	P
5	0.1995	42.15	9.91	52.06	63.63	-11.57	QP	P
6	0.1995	32.42	9.91	42.33	53.63	-11.30	AVG	P
7	0.3300	35.18	9.97	45.15	59.45	-14.30	QP	P
8	0.3300	31.25	9.97	41.22	49.45	-8.23	AVG	P
9	4.5914	31.91	10.11	42.02	56.00	-13.98	QP	P
10 *	4.5914	29.79	10.11	39.90	46.00	-6.10	AVG	P
11	12.8580	35.75	10.09	45.84	60.00	-14.16	QP	P
12	12.8580	30.98	10.09	41.07	50.00	-8.93	AVG	P

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



Temperature:	24.6°C	Relative Humidity:	54.8%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2040	40.14	9.91	50.05	63.45	-13.40	QP	P
2	0.2040	27.16	9.91	37.07	53.45	-16.38	AVG	P
3	0.3255	33.68	9.96	43.64	59.57	-15.93	QP	P
4	0.3255	30.58	9.96	40.54	49.57	-9.03	AVG	P
5	2.9445	33.36	10.07	43.43	56.00	-12.57	QP	P
6	2.9445	24.88	10.07	34.95	46.00	-11.05	AVG	P
7	4.5870	32.42	10.11	42.53	56.00	-13.47	QP	P
8 *	4.5870	31.13	10.11	41.24	46.00	-4.76	AVG	P
9	12.1784	35.14	10.09	45.23	60.00	-14.77	QP	P
10	12.1784	30.78	10.09	40.87	50.00	-9.13	AVG	P
11	13.3170	35.63	10.09	45.72	60.00	-14.28	QP	P
12	13.3170	32.05	10.09	42.14	50.00	-7.86	AVG	P

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

5. RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

5.1 RADIATED EMISSION LIMITS

Limits for frequency below 30MHz

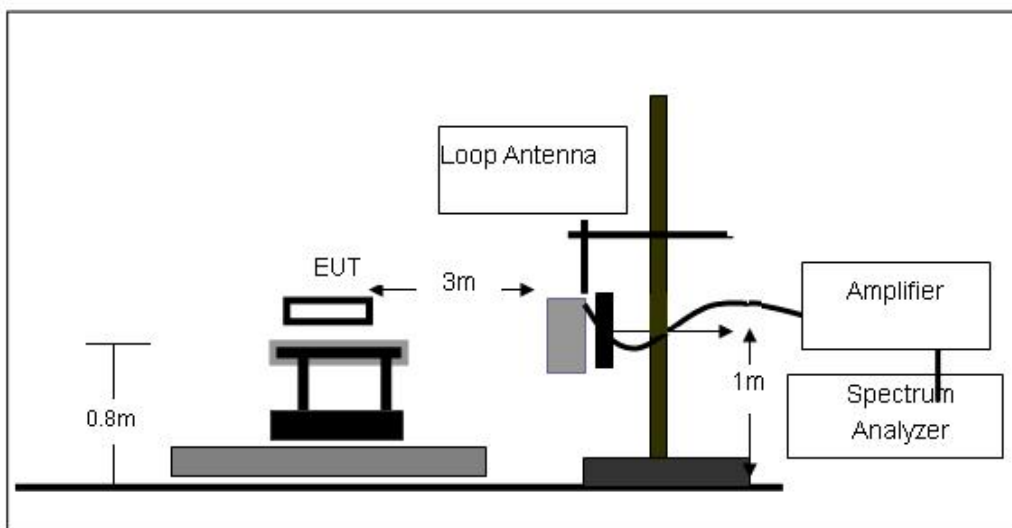
Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Limits for frequency Above 30MHz

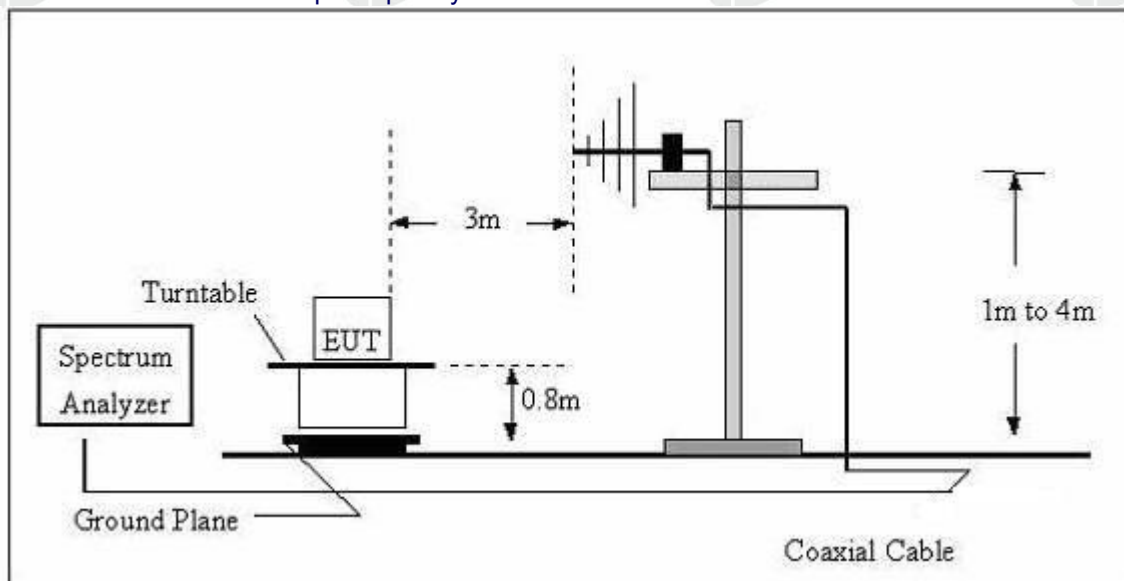
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024. The specification used was the FCC 15.209 and FCC 15.205 limits.

5.3 TEST PROCEDURE

The EUT is placed on a turn table which is 0.8 meter above ground. 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 move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

5.4 DEVIATION FROM TEST STANDARD

No deviation



5.5 TEST RESULT

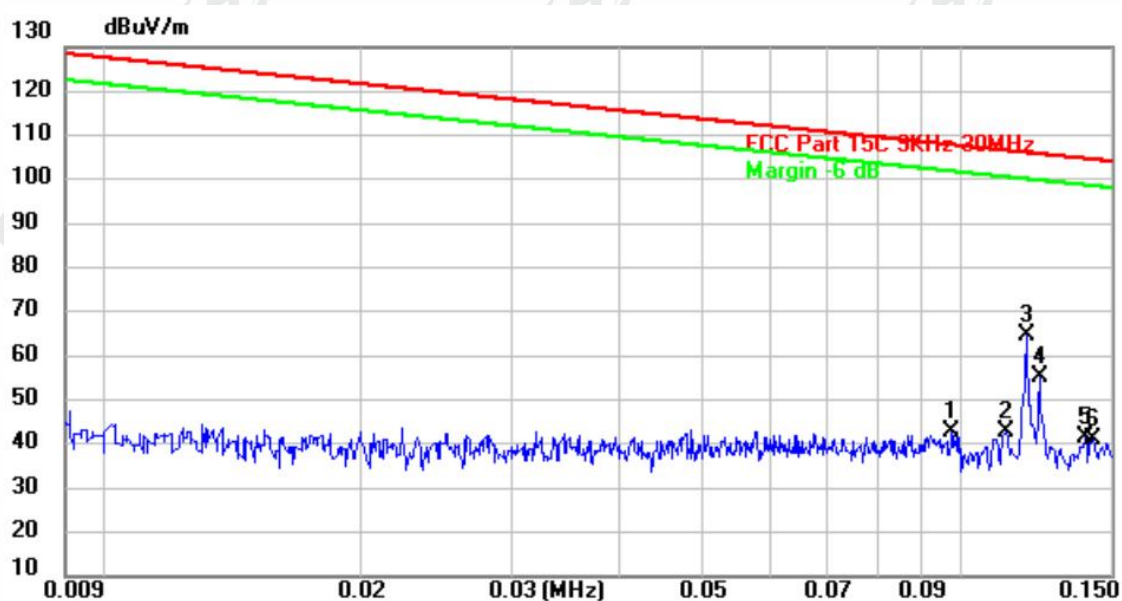
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~150 kHz

Temperature:	24.2℃	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 1

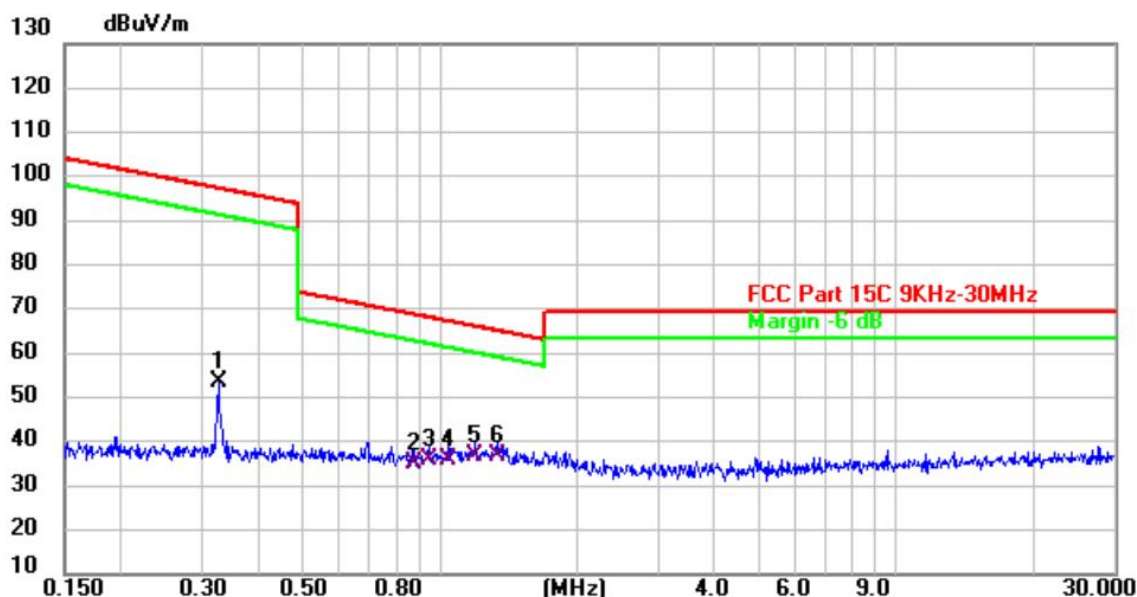


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0978	22.82	20.06	42.88	107.80	-64.92	peak
2	0.1128	22.72	20.08	42.80	106.56	-63.76	peak
3 *	0.1196	44.48	20.09	64.57	106.05	-41.48	peak
4	0.1239	34.96	20.09	55.05	105.74	-50.69	peak
5	0.1402	21.49	20.12	41.61	104.67	-63.06	peak
6	0.1430	21.04	20.12	41.16	104.50	-63.34	peak



150 kHz~30 MHz

Temperature:	24.2℃	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3280	33.15	20.14	53.29	97.29	-44.00	peak
2	0.8756	15.20	19.90	35.10	68.76	-33.66	peak
3	0.9430	16.15	19.89	36.04	68.11	-32.07	peak
4	1.0430	16.00	19.88	35.88	67.24	-31.36	peak
5	1.1906	16.85	19.89	36.74	66.09	-29.35	peak
6 *	1.3308	16.72	19.91	36.63	65.12	-28.49	peak

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Emission Level = Meter Reading - Factor

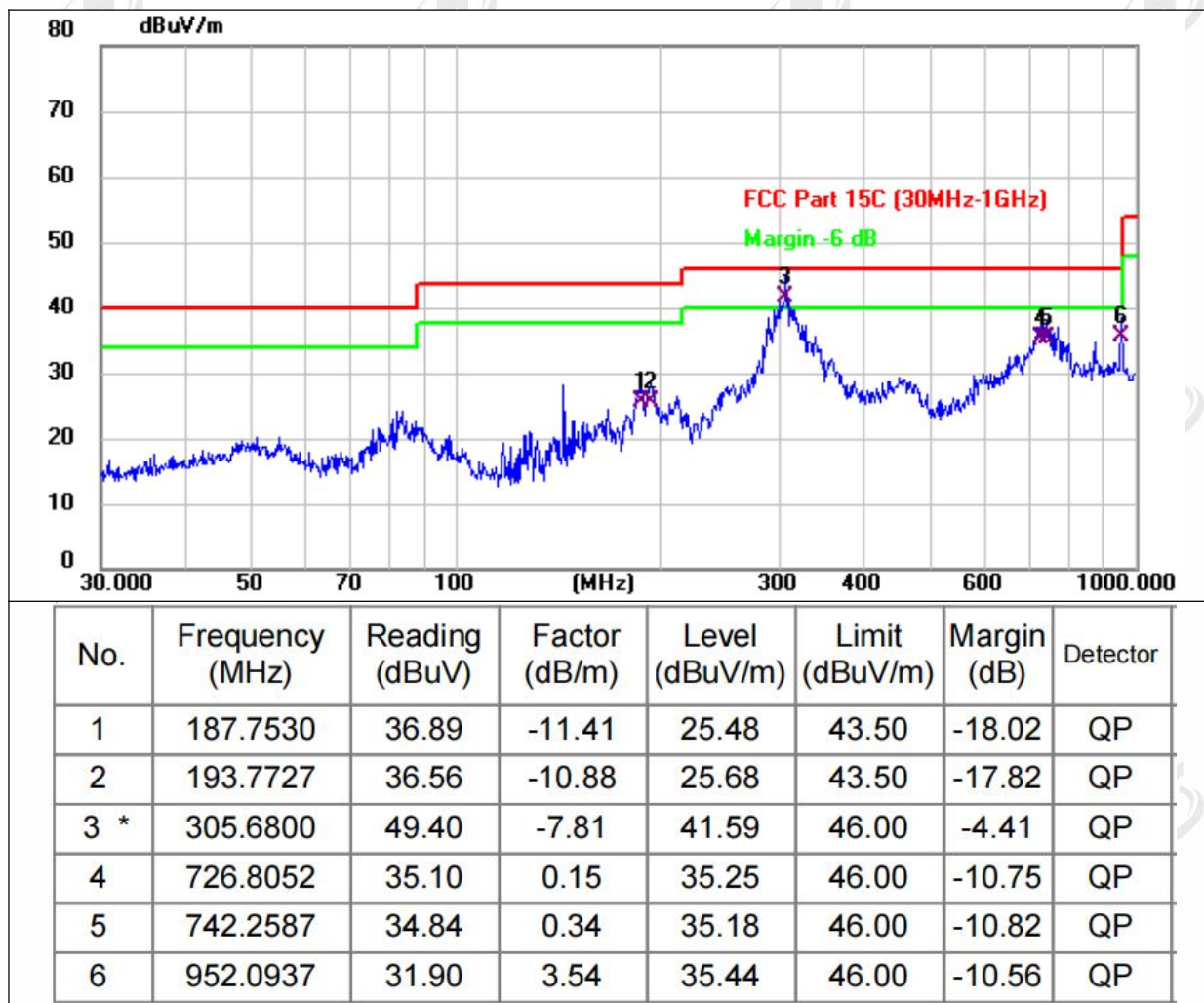
Margin = Emission Level- Limit.

The amplitude of emissions which are attenuated by more than 20db below the permissible value has no need to be reported.

'-'Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

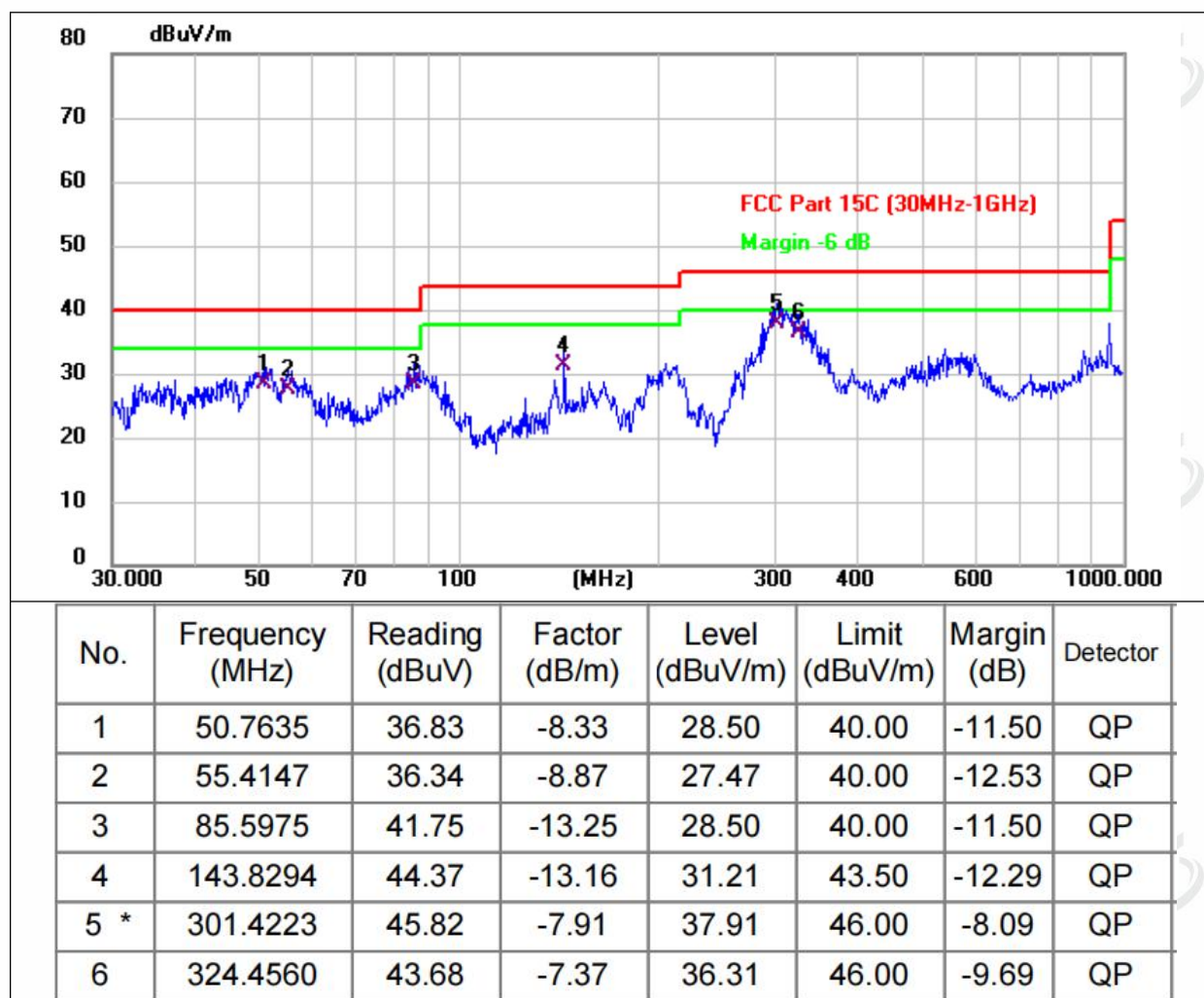
30MHz-1GHz

Temperature:	24.2℃	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 1





Temperature:	24.2°C	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 1



Remarks:

- Factor = Antenna Factor + Cable Loss – Preamplifier Factor
- Level = Reading + Factor
- Margin = Emission Level- Limit.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- '-'Means the test Degree and Height are not recorded by the test software and only show the worstcase in the test report.



6. BANDWIDTH TEST

1. Set RBW = 1%-5%OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP

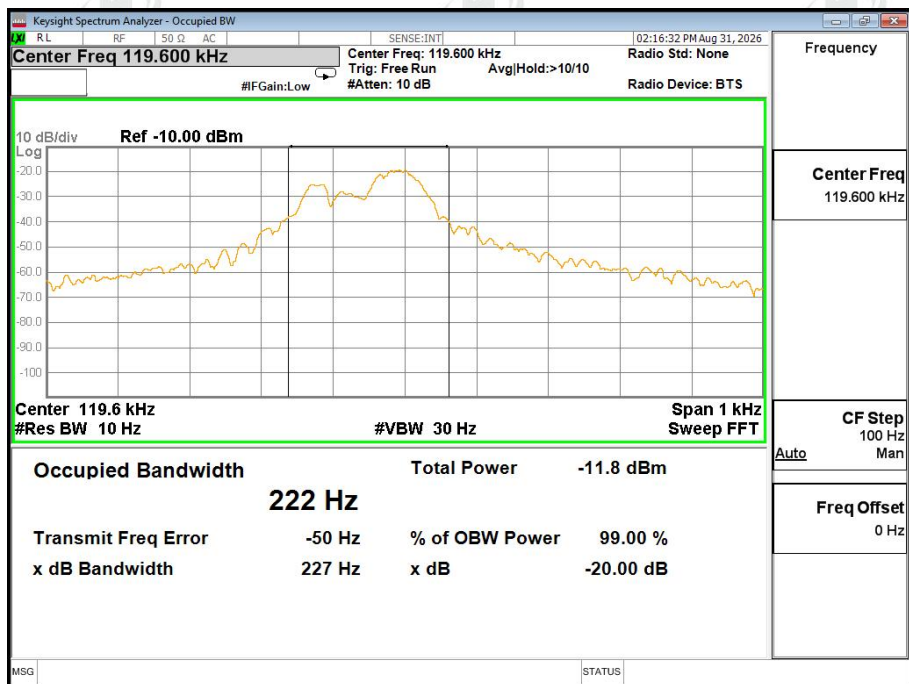




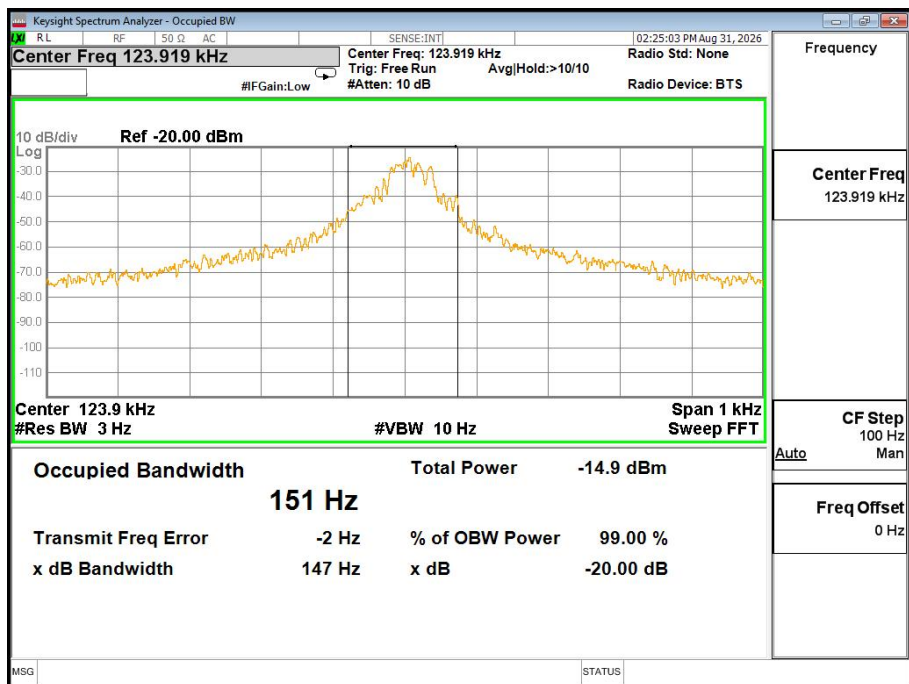
Temperature:	23.9°C	Relative Humidity:	54.2%
Pressure:	101.4kPa		

Coil	Frequency (kHz)	20dB bandwidth (kHz)	Result
Mobile Phone	119.6	0.227	Pass
Earphone	123.9	0.147	Pass
Watch	328	0.051	Pass

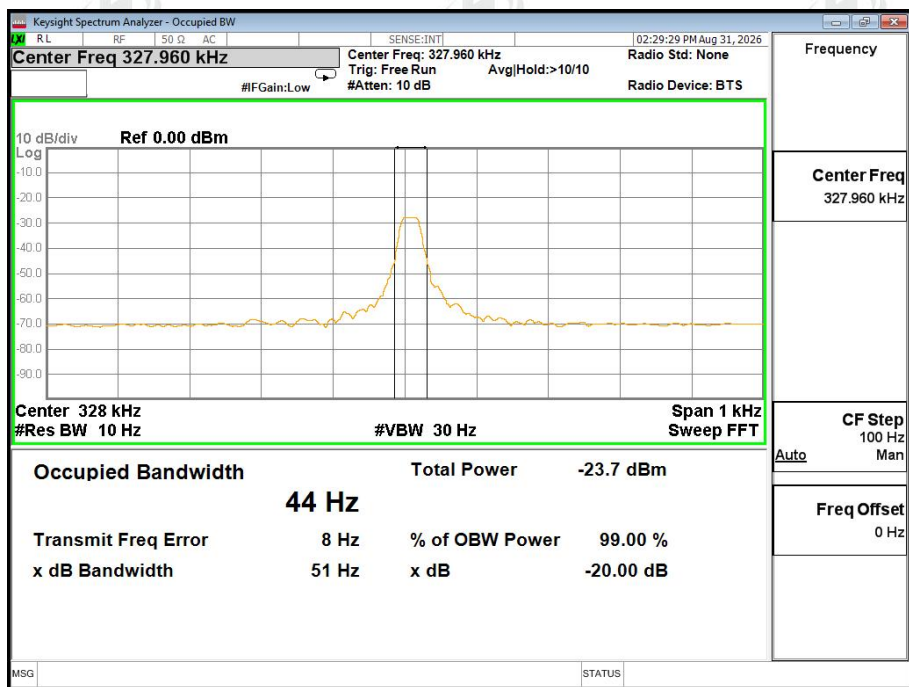
Mobile Phone coil



Earphone coil



Watch coil



Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 10 Hz to perform the 20dB bandwidth test.

7. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
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.	
EUT Antenna:	
The antenna is Inductive loop coil Antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details	

8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

******* END OF REPORT *******