



FCC TEST REPORT

FCC ID:2BBU5-ZG-WX-01

Report Number..... : ZKT-260923L1463E-1

Date of Test..... : Sept. 3, 2026-Sept. 18, 2026

Date of issue..... : Sept. 18, 2026

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Guangdong Zhangong Electric Technology Co., Ltd

Address : 701, Building 29, zhifuyuan Industrial Zone, Xingtan town, Shunde District, Foshan City, Guangdong Province, China

Manufacturer's name : Guangdong Zhangong Electric Technology Co., Ltd

Address : 701, Building 29, zhifuyuan Industrial Zone, Xingtan town, Shunde District, Foshan City, Guangdong Province, China

Test specification:

Standard..... : 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

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-107_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : Embedded Wireless Charger

Trademark : /

Model/Type reference..... : ZG-WX-01

Ratings..... : Input: DC 5 V/1 A, DC 9 V/1.12A, DC 12V/1.67A

Wireless output: 5 W/7.5 W/10 W/15 W

Output 1: DC 5 V/1 A 5W MAX

Output 2: DC 5 V/1 A 5W MAX



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Tested by (name + signature).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-260923L1463E-1	Rev.01	Initial issue of report	Sept. 20, 2026



2. 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



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491
Designation Number: CN1431
IC Registered No.: 27033
CAB identifier: CN0110

2.2 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	3m camber Radiated spurious emission(9KHz-30MHz)	4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	5.0dB
5	Conducted disturbance	3.2dB
6	RF conducted Spurious Emission	2.2dB
7	RF Occupied Bandwidth	1.8MHz
8	humidity uncertainty	5.3%
9	Temperature uncertainty	0.59℃



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Embedded Wireless Charger
Model No.:	ZG-WX-01
Serial No.:	/
Model Difference:	/
Hardware version:	N/A
Software version:	N/A
Operation Frequency:	Phone: 115-205 kHz
Modulation type:	ASK
Antenna Type:	Loop coil antenna
Antenna gain:	0dBi
Ratings:	Input: DC 5 V/1 A, DC 9 V/1.12A, DC 12V/1.67A Wireless output: 5 W/7.5 W/10 W/15 W Output 1: DC 5 V/1 A 5W MAX Output 2: DC 5 V/1 A 5W MAX
Test description:	Phone Battery > 98%, =50% and < 1% are tested, and the worst is < 1%.

3.2 Test mode

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.

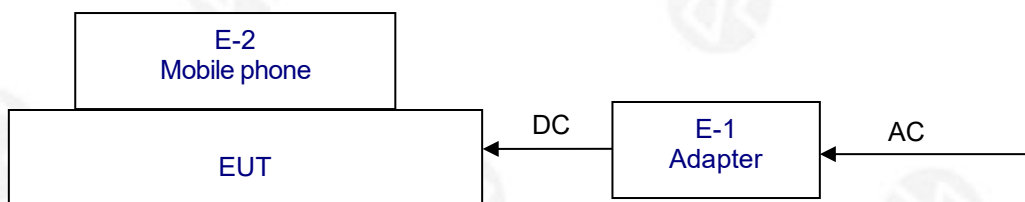
Test Modes:		Description:	
ANT 1	Phone Coil	Mode 1: 98% Mobile phone charging port (115-205 kHz)-5W	
		Mode 2: 50% Mobile phone charging port (115-205 kHz)-5W	
		Mode 3: 1% Mobile phone charging port (115-205 kHz)-5W	
		Mode 4: 98% Mobile phone charging port (115-205 kHz)-7.5W	
		Mode 5: 50% Mobile phone charging port (115-205 kHz)-7.5W	
		Mode 6: 1% Mobile phone charging port (115-205 kHz)-7.5W	
		Mode 7: 98% Mobile phone charging port (115-205 kHz)-10W	
		Mode 8: 50% Mobile phone charging port (115-205 kHz)-10W	
		Mode 9: 1% Mobile phone charging port (115-205 kHz)-10W	
		Mode 10: 98% Mobile phone charging port (115-205 kHz)-15W	
		Mode 11: 50% Mobile phone charging port (115-205 kHz)-15W	
		Mode 12: 1% Mobile phone charging port (115-205 kHz)-15W	Record

Note: All modes have been tested, and the report only reflects the worst case data.

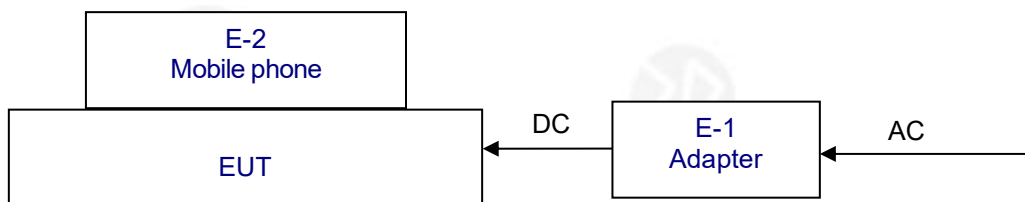


3.3 Block Diagram of EUT Configuration

Conducted Emission



Radiated Emission



3.4 Test Conditions

Temperature: 23~26℃

Relative Humidity: 54~63 %

3.5 Description Of Support Units (Conducted Mode)

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	Adapter	Xiaomi	MDY-08-EH	N/A	AE
E-2	Mobile phone	Apple Inc.	iPhone15	N/A	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”.



3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May 25, 2026	May 24, 2027
12	Test Cable	N/A	R-02	N/A	N/A	May 25, 2026	May 24, 2027
13	Test Cable	N/A	R-03	N/A	N/A	May 26, 2026	May 25, 2027
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May 22, 2026	May 21, 2027
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

RF Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	N/A	RF-01	N/A	N/A	May 25, 2026	May 24, 2027
4	Test Cable	N/A	RF-02	N/A	N/A	May 25, 2026	May 24, 2027
5	Test Cable	N/A	RF-03	N/A	N/A	May 25, 2026	May 24, 2027
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344/M-1752	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
11	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
12	D.C. Power Supply	LongWei	TPR-6405 D	N/A	N/A	\	\
13	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



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
	Quas-peak	Average	
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

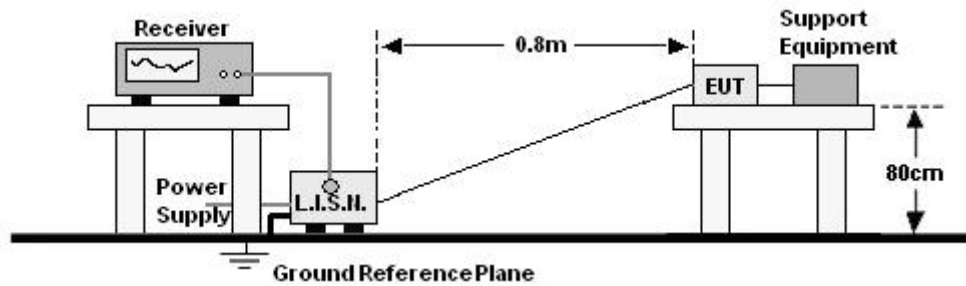
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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



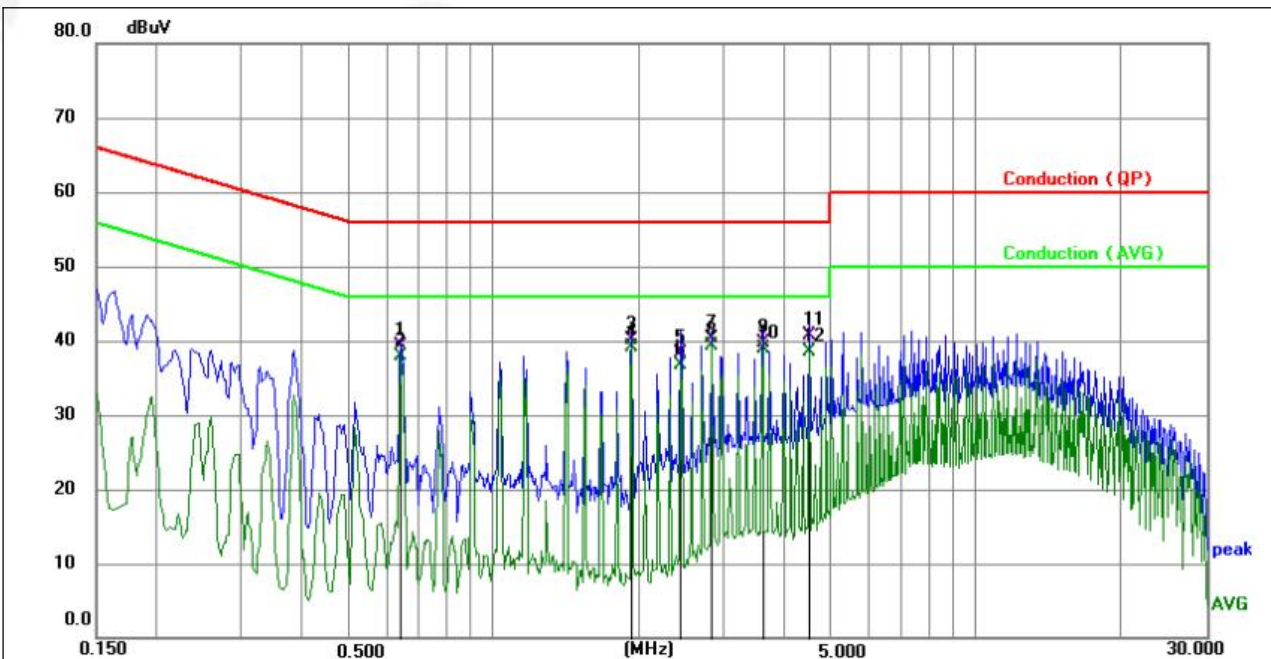
4.1.5 EUT OPERATING CONDITIONS

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:	24.2℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 12



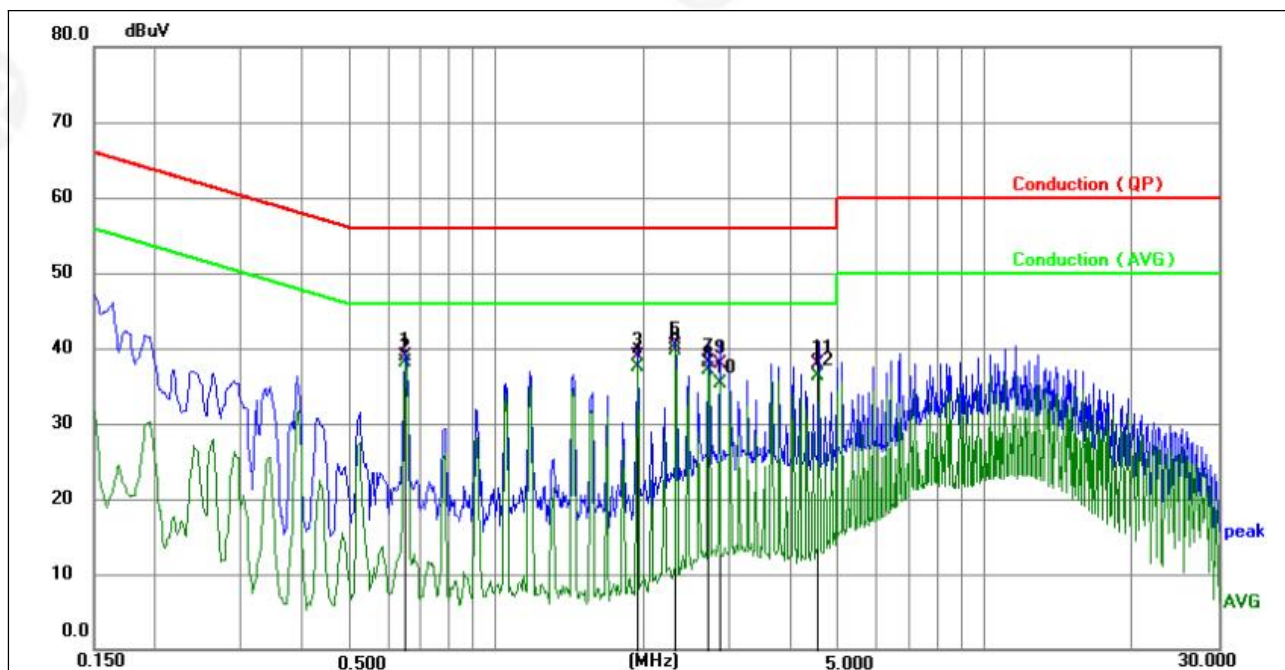
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.6404	29.28	10.03	39.31	56.00	-16.69	QP	P	
2	0.6404	27.92	10.03	37.95	46.00	-8.05	AVG	P	
3	1.9320	30.01	10.06	40.07	56.00	-15.93	QP	P	
4	1.9320	29.13	10.06	39.19	46.00	-6.81	AVG	P	
5	2.4450	28.31	10.07	38.38	56.00	-17.62	QP	P	
6	2.4450	26.55	10.07	36.62	46.00	-9.38	AVG	P	
7	2.8320	30.21	10.07	40.28	56.00	-15.72	QP	P	
8 *	2.8320	29.21	10.07	39.28	46.00	-6.72	AVG	P	
9	3.6060	29.71	10.09	39.80	56.00	-16.20	QP	P	
10	3.6060	28.76	10.09	38.85	46.00	-7.15	AVG	P	
11	4.5060	30.55	10.11	40.66	56.00	-15.34	QP	P	
12	4.5060	28.47	10.11	38.58	46.00	-7.42	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:	24.2℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.6508	28.97	10.03	39.00	56.00	-17.00	QP	P	
2	0.6508	27.98	10.03	38.01	46.00	-7.99	AVG	P	
3	1.9455	28.84	10.06	38.90	56.00	-17.10	QP	P	
4	1.9455	27.44	10.06	37.50	46.00	-8.50	AVG	P	
5	2.3325	30.33	10.07	40.40	56.00	-15.60	QP	P	
6 *	2.3325	29.56	10.07	39.63	46.00	-6.37	AVG	P	
7	2.7195	28.09	10.07	38.16	56.00	-17.84	QP	P	
8	2.7195	27.00	10.07	37.07	46.00	-8.93	AVG	P	
9	2.8590	27.83	10.07	37.90	56.00	-18.10	QP	P	
10	2.8590	25.27	10.07	35.34	46.00	-10.66	AVG	P	
11	4.5734	27.86	10.11	37.97	56.00	-18.03	QP	P	
12	4.5734	26.10	10.11	36.21	46.00	-9.79	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	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

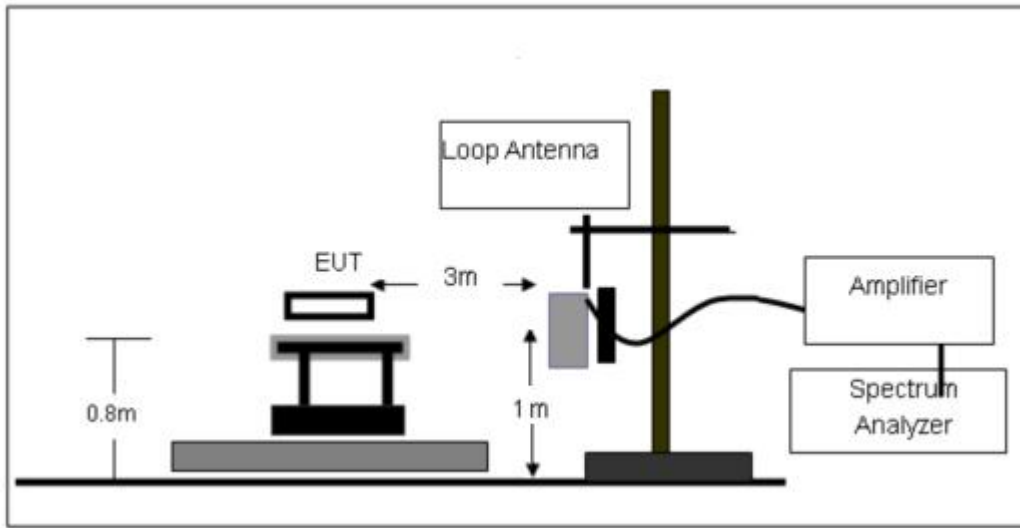
Limits for frequency Above 30MHz

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

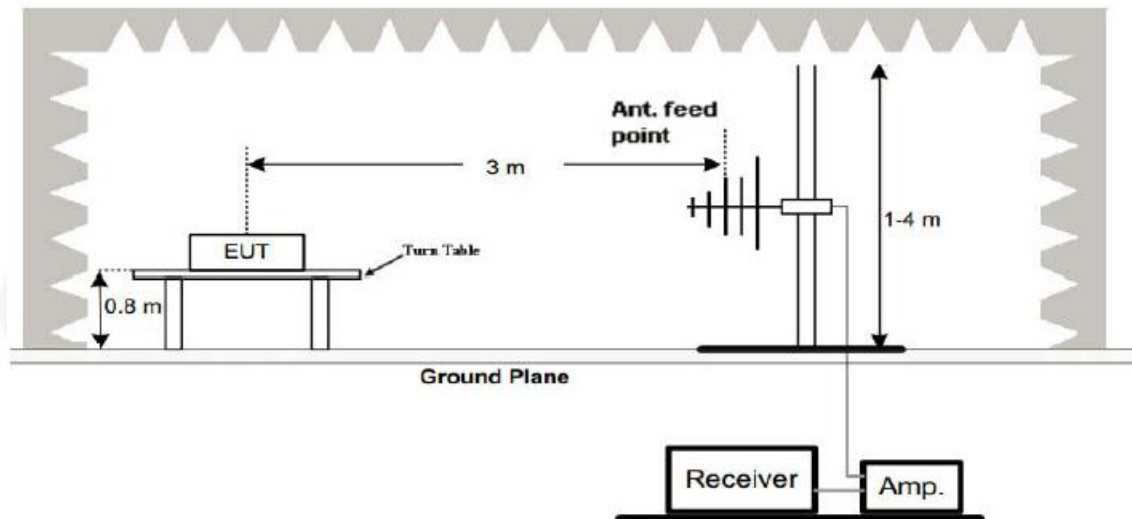


5.2 Anechoic Chamber Test Setup Diagram

(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 an 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

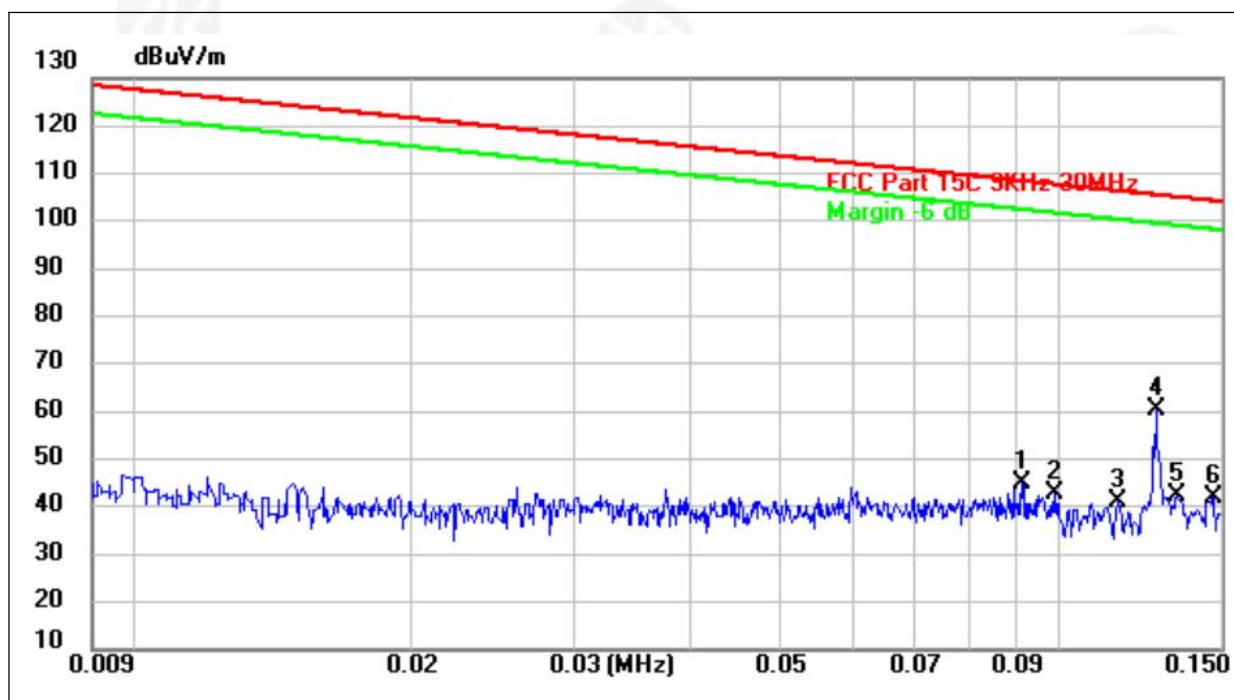
Measurement data:

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

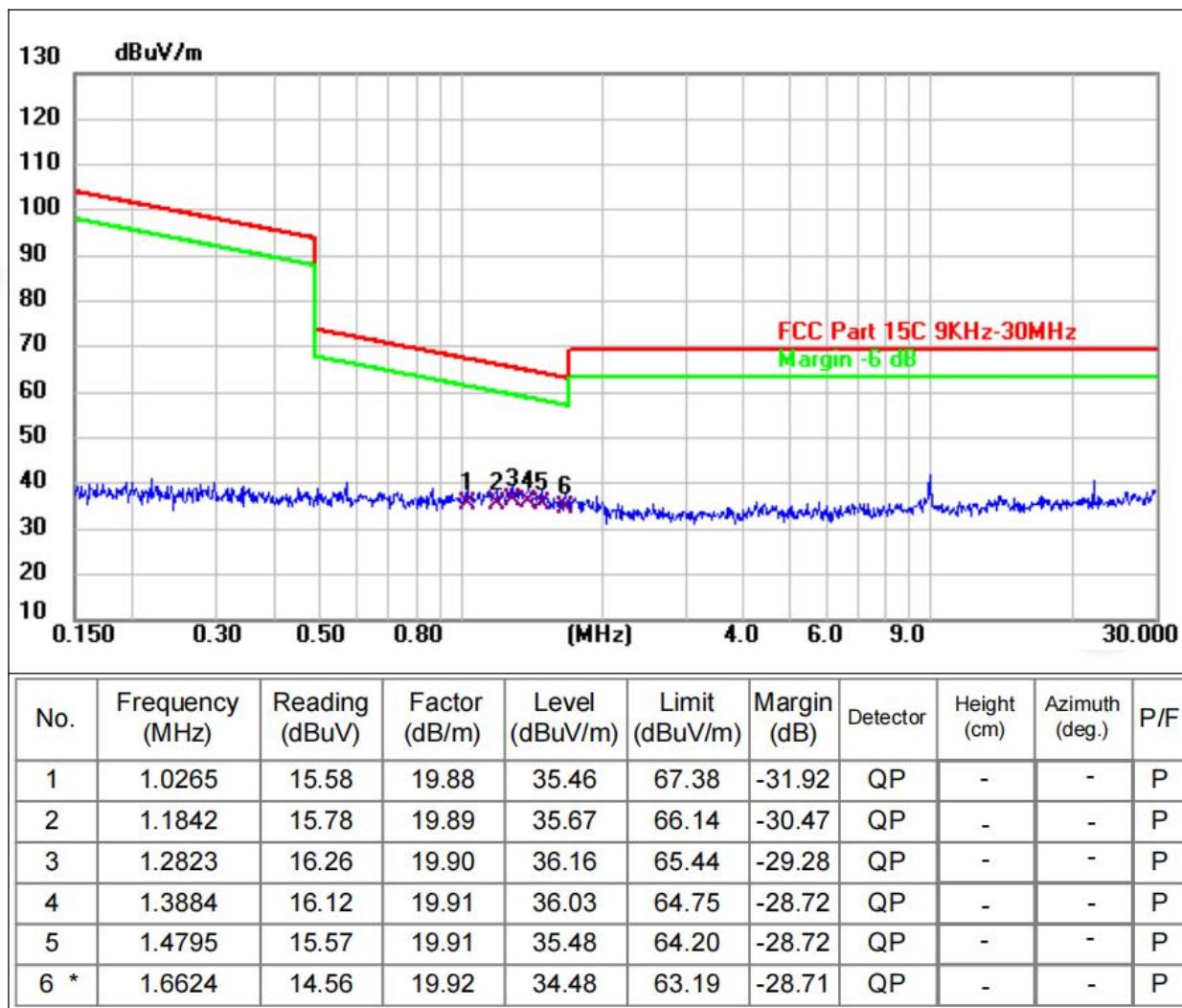
Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

Temperature:	24.0℃	Relative Humidity:	55.3%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	0.0914	24.98	20.05	45.03	108.39	-63.36	peak	-	-	P
2	0.0990	22.91	20.06	42.97	107.69	-64.72	peak	-	-	P
3	0.1161	20.81	20.08	40.89	106.31	-65.42	peak	-	-	P
4 *	0.1280	40.35	20.10	60.45	105.46	-45.01	peak	-	-	P
5	0.1347	22.10	20.11	42.21	105.02	-62.81	peak	-	-	P
6	0.1470	21.82	20.13	41.95	104.26	-62.31	peak	-	-	P



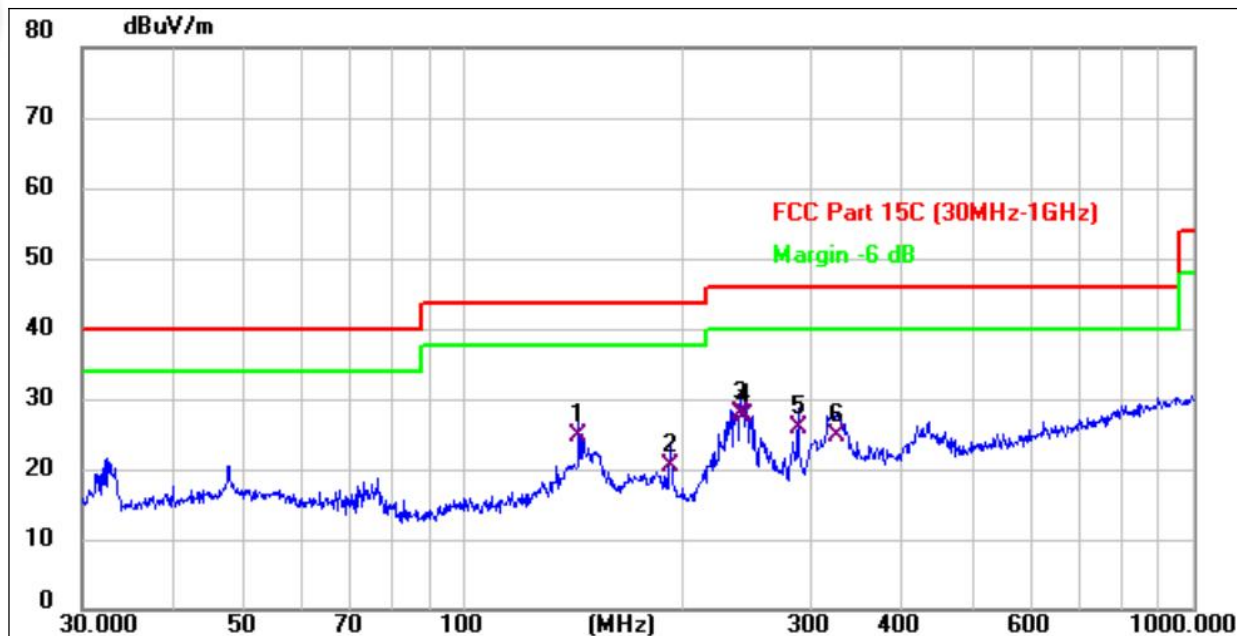
Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. '-' 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

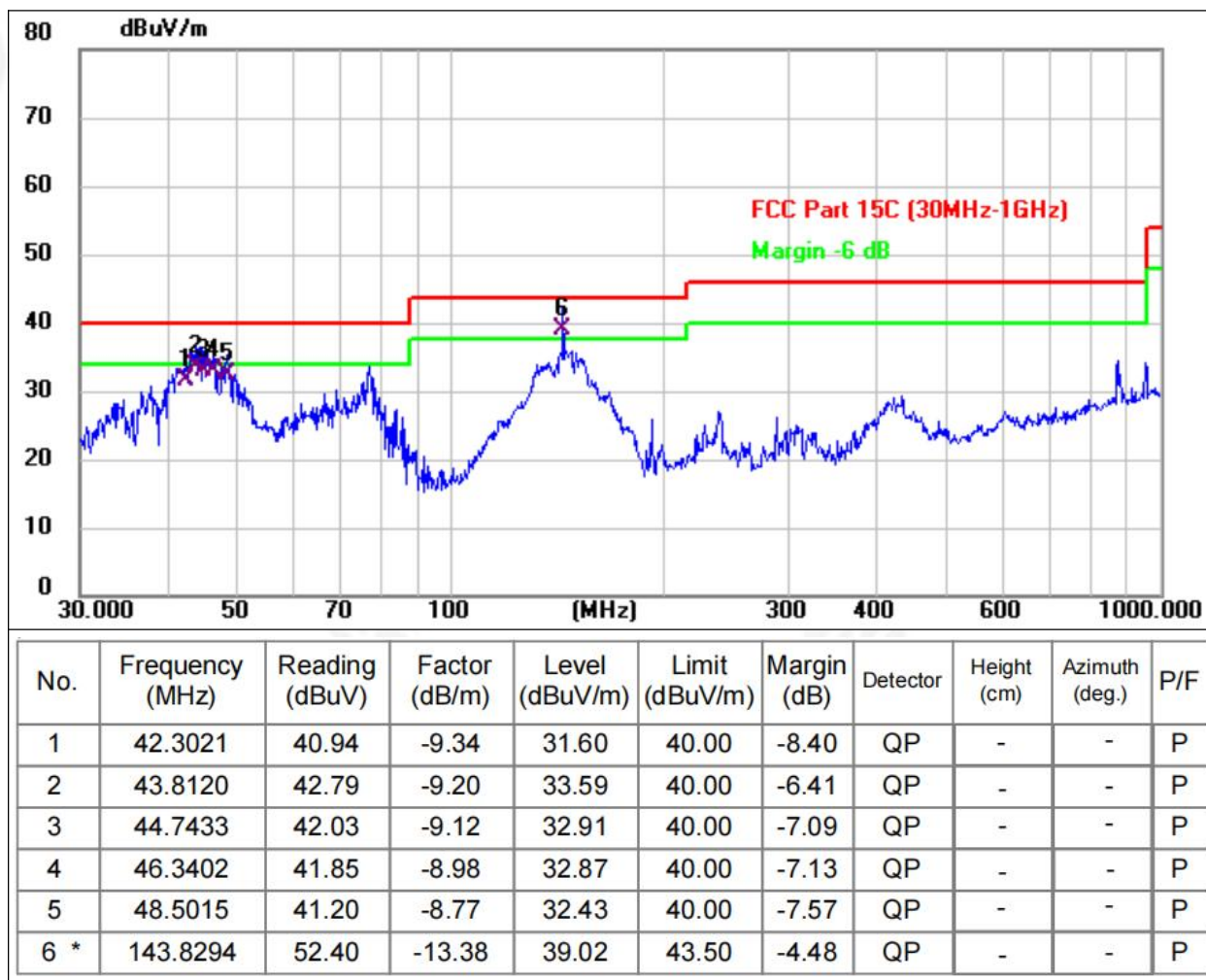
Temperature:	24.0℃	Relative Humidity:	55.3%
Pressure:	101.4kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 12



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	143.8294	38.06	-13.38	24.68	43.50	-18.82	QP	-	-	P
2	191.7450	31.64	-11.10	20.54	43.50	-22.96	QP	-	-	P
3 *	239.9873	36.87	-8.97	27.90	46.00	-18.10	QP	-	-	P
4	243.3771	36.55	-8.84	27.71	46.00	-18.29	QP	-	-	P
5	287.9904	33.52	-7.79	25.73	46.00	-20.27	QP	-	-	P
6	325.5957	31.73	-6.93	24.80	46.00	-21.20	QP	-	-	P



Temperature:	24.0°C	Relative Humidity:	55.3%
Pressure:	101.4kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 12



Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.'-'Means the test Degree and Height are not recorded by the test software and only show the worst case 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.

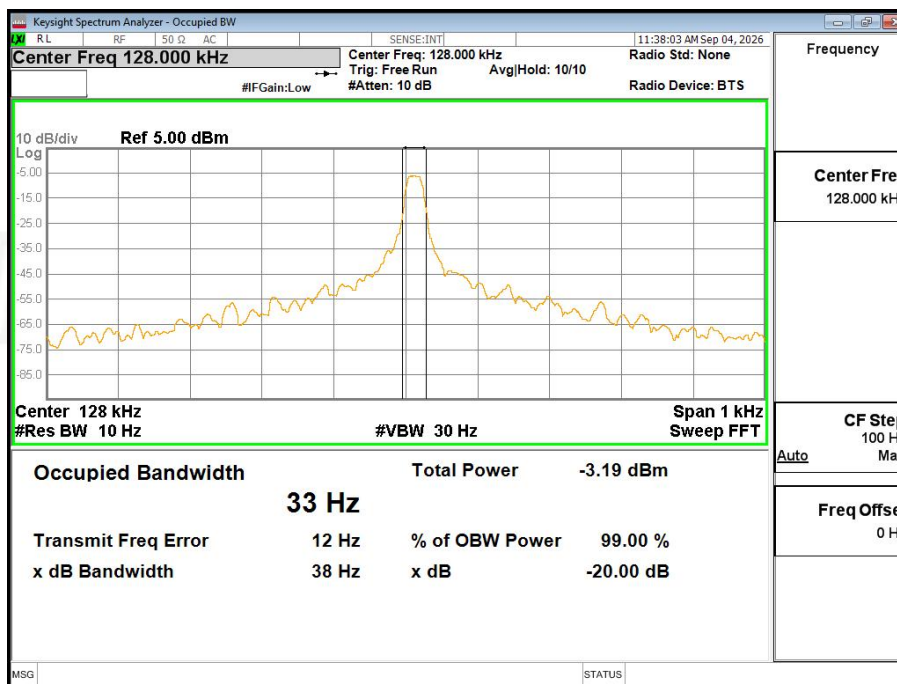
TEST SETUP





Temperature:	25.2 °C	Relative Humidity:	54.6%
Pressure:	101.4kPa	Test Mode:	Mode 12

Test Coil	Frequency (kHz)	20dB bandwidth (kHz)	Result
Phone Coil	128	0.038	Pass



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 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 *****