

FCC TEST REPORT

FCC ID:2AVV6-827373

Applicant Name..... : Liquipel Protection LLC

Address..... : 19800 MacArthur Blvd. Suite 300, Irvine California, CA 92612, United States

Manufacturer Name..... : Dong Guan You & Me Electronics., LTD

Address..... : 2nd Floor, 3rd building, YongFa High-Tech Park, Jiaoping Road, TangXia District, Dongguan City, China.

Product..... : Powertek 3in1 Charge Station

Model(s)..... : 827373

Additional Model(s)..... : T8U, PT827373

Trademark..... : Powertek

Model Difference..... : 827373 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 827373 can represent the remaining models.

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..... : May 27, 2026

Date of Test(s)..... : May 27, 2026-June 18, 2026

Date of Issue..... : June 22, 2026

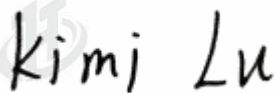
Test Requested..... : Select test(s) as requested by the client.

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

Test procedure..... : ANSI C63.10-2020 + Cor. 1-2023

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

Prepared by:



Kimi Lu/ Engineer

Reviewed by:



Baret Wu/ Director

Approved by:



Levi Lee/ Manager

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:	Powertek 3in1 Charge Station
Test Model No:	827373
Hardware version:	V1.0
Software version:	V1.0
Operation Frequency:	Phone: 115-205kHz, 360kHz Earbuds: 115-205kHz
Modulation type:	ASK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Input: DC 9 V/3 A, DC 12 V/3 A, DC 15 V/3 A Magnetic wireless charging: 25 W Max Earbud wireless charging: 5 W Max
Sample Number:	260527106YP001
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

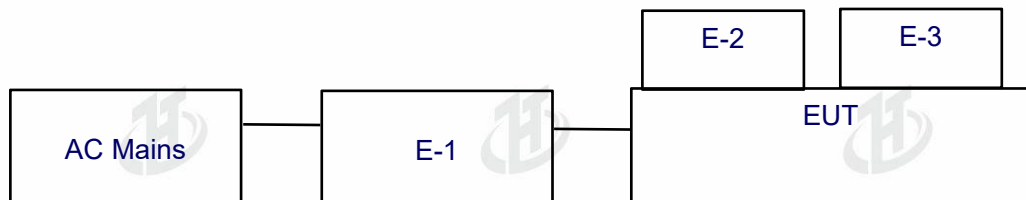
Test Modes:	
Mode 1	AC Mains + Phone charging port(115-205kHz)-5 W + Earbuds charging port-5W -(Battery Status:≤1%)
Mode 2	AC Mains + Phone charging port(115-205kHz)-5 W + Earbuds charging port-5W -(Battery Status:50%)
Mode 3	AC Mains + Phone charging port(115-205kHz)-5 W + Earbuds charging port-5W -(Battery Status:≥98%)
Mode 4	AC Mains + Phone charging port(115-205kHz)-7.5 W + Earbuds charging port-5W -(Battery Status:≤1%)
Mode 5	AC Mains + Phone charging port(115-205kHz)-7.5 W + Earbuds charging port-5W -(Battery Status:50%)
Mode 6	AC Mains + Phone charging port(115-205kHz)-7.5 W + Earbuds charging port-5W -(Battery Status:≥98%)
Mode 7	AC Mains + Phone charging port(115-205kHz)-10 W + Earbuds charging port-5W -(Battery Status:≤1%)
Mode 8	AC Mains + Phone charging port(115-205kHz)-10 W + Earbuds charging port-5W -(Battery Status:50%)
Mode 9	AC Mains + Phone charging port(115-205kHz)-10 W + Earbuds charging port-5W -(Battery Status:≥98%)
Mode 10	AC Mains + Phone charging port(115-205kHz)-EPP15 W + Earbuds charging port-5W -(Battery Status:≤1%)
Mode 11	AC Mains + Phone charging port(115-205kHz)-EPP15 W + Earbuds charging port-5W -(Battery Status:50%)
Mode 12	AC Mains + Phone charging port(115-205kHz)-EPP15 W+ Earbuds charging port-5W -(Battery Status:≥98%)
Mode 13	AC Mains + Phone charging port(360kHz)-MPP15 W + Earbuds charging port-5W -(Battery Status:≤1%)
Mode 14	AC Mains + Phone charging port(360kHz)-MPP15 W + Earbuds charging port-5W (Battery Status:50%)
Mode 15	AC Mains + Phone charging port(360kHz)-MPP15 W + Earbuds charging port-5W -(Battery Status:≥98%)
Mode 16	AC Mains + Phone charging port(360kHz)-25 W + Earbuds charging port-5W -(Battery Status:≤1%)
Mode 17	AC Mains + Phone charging port(360kHz)-25 W + Earbuds charging port-5W (Battery Status:50%)
Mode 18	AC Mains + Phone charging port(360kHz)-25 W + Earbuds charging port-5W -(Battery Status:≥98%)
Mode 19	AC Mains + Phone charging port(Battery Status:≤1%)(115-205kHz)-5 W
Mode 20	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-5 W
Mode 21	AC Mains + Phone charging port(Battery Status:≥98%)(115-205kHz)-5 W
Mode 22	AC Mains + Phone charging port(Battery Status:≤1%)(115-205kHz)-7.5 W
Mode 23	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-7.5 W
Mode 24	AC Mains + Phone charging port(Battery Status:≥98%)(115-205kHz)-7.5 W



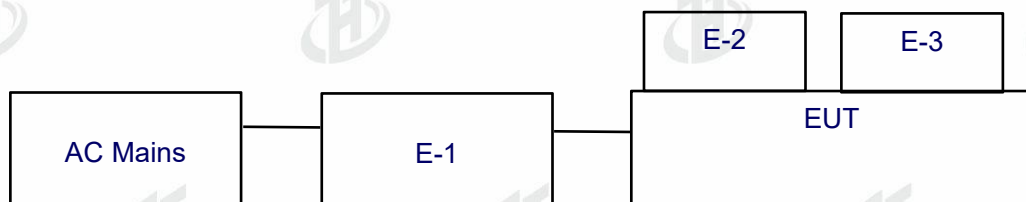
Mode 25	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-10 W
Mode 26	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-10 W
Mode 27	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-10 W
Mode 28	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(115-205kHz)-EPP15 W
Mode 29	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-EPP15 W
Mode 30	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(115-205kHz)-EPP15 W
Mode 31	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(360kHz)-MPP15 W
Mode 32	AC Mains + Phone charging port(Battery Status:50%)(360kHz)-MPP15 W
Mode 33	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(360kHz)-MPP15 W
Mode 34	AC Mains + Phone charging port(Battery Status: $\leq 1\%$)(360kHz)-25 W
Mode 35	AC Mains + Phone charging port(Battery Status:50%)(360kHz)-25 W
Mode 36	AC Mains + Phone charging port(Battery Status: $\geq 98\%$)(360kHz)-25 W
Mode 37	AC Mains + Earbuds charging port(Battery Status: $\leq 1\%$)-5W
Mode 38	AC Mains + Earbuds charging port(Battery Status:50%)-5W
Mode 39	AC Mains + Earbuds charging port(Battery Status: $\geq 98\%$)-5W
Mode 40	Standby
Note: All modes were tested, only the worst-case was recorded in the report. Mode 16 is the worst mode.	

2.3 BLOCK DIAGRAM OF EUT CONFIGURATION

Conducted Emission



Radiated Emission



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
1	AC Adapter	Lenovo	ADL100UCGC3A	/	AE
2	Mobile phone	Apple Inc.	iPhone16 Plus	/	AE
3	Earphone	Apple Inc.	A2031	/	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

Item	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	Apr. 24, 2026	Apr. 23, 2027
2	Loop antenna	EMCI	LAP600	272	Sept. 8, 2025	Sept. 7, 2026
3	Amplifier	Schwarzbeck	BBV 9743 B	00378	Apr. 24, 2026	Apr. 23, 2027
4	Amplifier	Schwarzbeck	BBV 9718 B	00040	May 8, 2026	May 7, 2027
5	Bilog Antenna	Schwarzbeck	VULB9162	00498	Apr. 25, 2026	Apr. 24, 2027
6	Horn Antenna	Schwarzbeck	BBHA9120D	02623	Apr. 25, 2026	Apr. 24, 2027
7	Horn Antenna	A.H.SYSTEMS	SAS574	588	Oct. 20, 2025	Oct. 19, 2026
8	Amplifier	AEROFLEX	100KHz-40GHz	097	Oct. 20, 2025	Oct. 19, 2026
9	Spectrum Analyzer	R&S	FSV40	101413	Apr. 24, 2026	Apr. 23, 2027
10	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	Apr. 24, 2026	Apr. 23, 2027
11	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	Apr. 24, 2026	Apr. 23, 2027
12	Single Generator	Agilent	N5182A	MY48180575	Apr. 24, 2026	Apr. 23, 2027
13	Power Sensor	MWRFTest	MW100-RFCB	/	Apr. 24, 2026	Apr. 23, 2027
14	CABLE	EMToni	DA800-NM-NM-11000MM	/	Apr. 24, 2026	Apr. 23, 2027

Conduction Test equipment

Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
Receiver	R&S	ESCI	100874	Apr. 24, 2026	Apr. 23, 2027
LISN	R&S	ENV216	102794	Aug. 22, 2025	Aug. 21, 2026
ISN CAT 6	Schwarzbeck	NTFM 8158	00318	Apr. 24, 2026	Apr. 23, 2027
ISN CAT 5	Schwarzbeck	CAT5 8158	00343	Apr. 24, 2026	Apr. 23, 2027
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	00101	May 8, 2026	May 7, 2027
Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	May 8, 2026	May 7, 2027
CABLE	EMToni	G223-NM-BNCM-2000MM	/	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	2.0.0.0

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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
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.

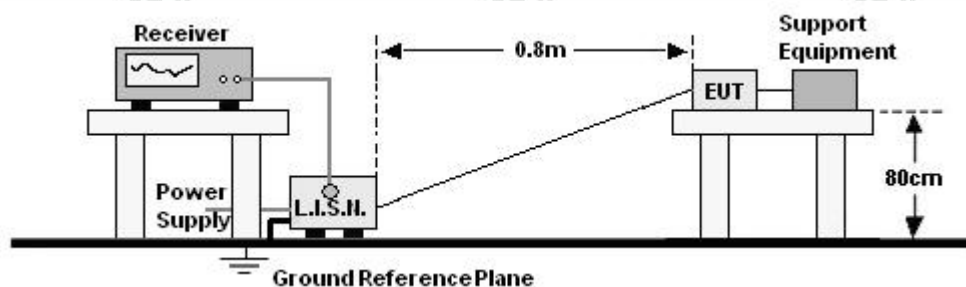
4.1.2 TEST PROCEDURE

- 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



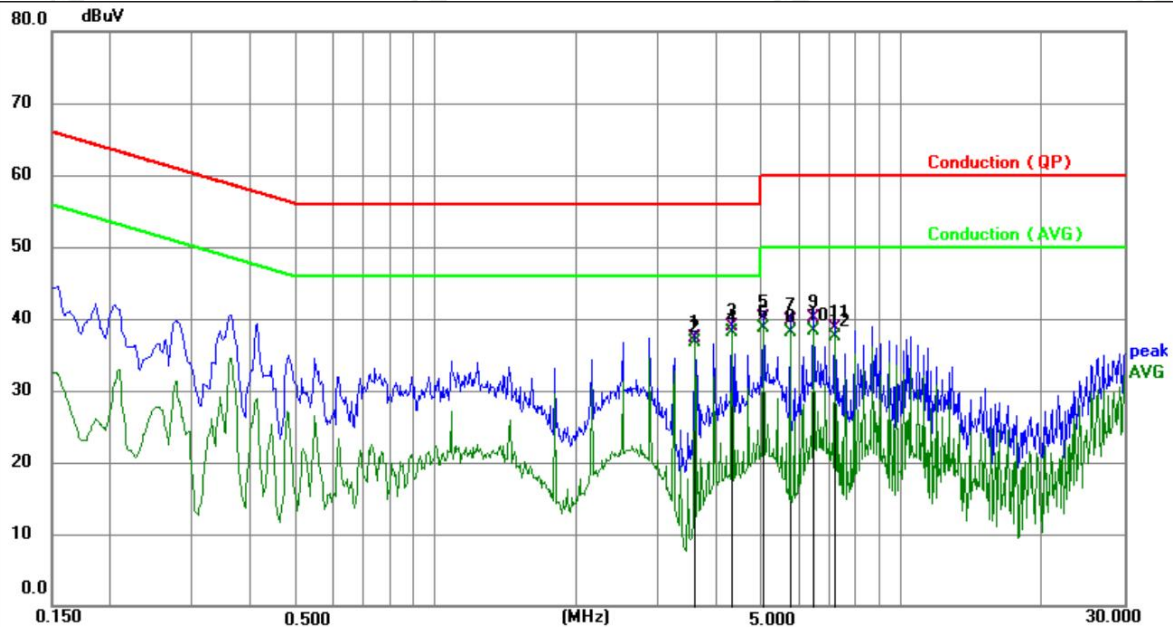
4.1.5 EUT OPERATING CONDITIONS

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 16



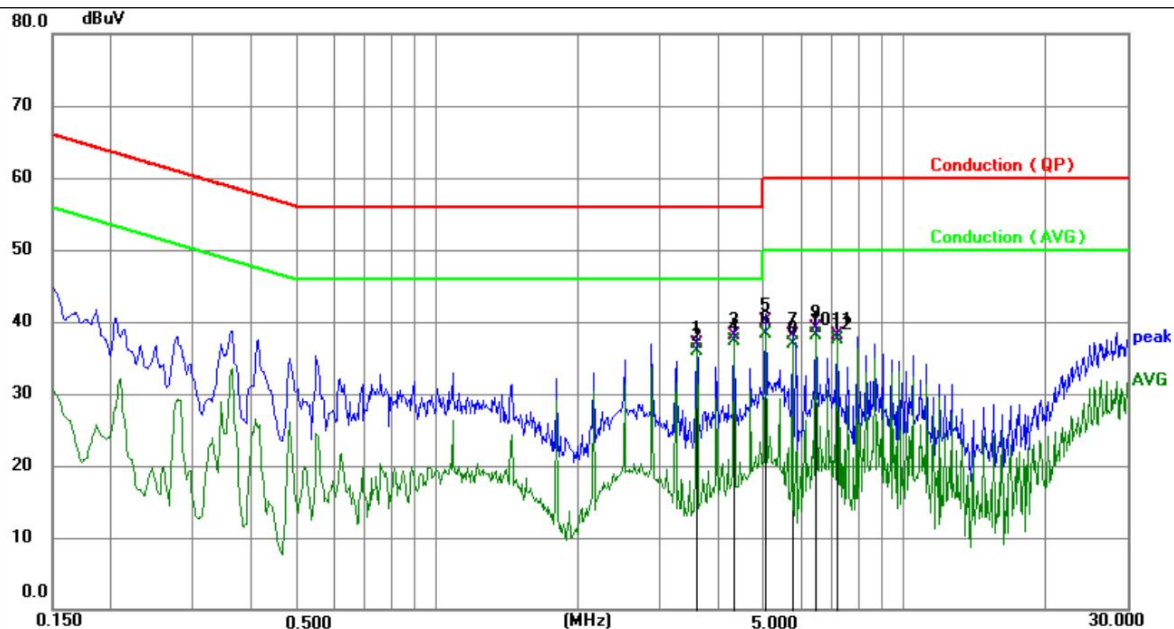
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	3.6015	27.31	10.09	37.40	56.00	-18.60	QP	P	
2	3.6015	26.54	10.09	36.63	46.00	-9.37	AVG	P	
3	4.3215	28.90	10.10	39.00	56.00	-17.00	QP	P	
4 *	4.3215	27.97	10.10	38.07	46.00	-7.93	AVG	P	
5	5.0415	29.95	10.12	40.07	60.00	-19.93	QP	P	
6	5.0415	28.56	10.12	38.68	50.00	-11.32	AVG	P	
7	5.7614	29.65	10.12	39.77	60.00	-20.23	QP	P	
8	5.7614	28.01	10.12	38.13	50.00	-11.87	AVG	P	
9	6.4813	30.10	10.10	40.20	60.00	-19.80	QP	P	
10	6.4813	28.27	10.10	38.37	50.00	-11.63	AVG	P	
11	7.2015	28.68	10.10	38.78	60.00	-21.22	QP	P	
12	7.2015	27.48	10.10	37.58	50.00	-12.42	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:	24.6°C	Relative Humidity:	54.8%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 16



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	3.6015	26.85	10.09	36.94	56.00	-19.06	QP	P	
2	3.6015	25.83	10.09	35.92	46.00	-10.08	AVG	P	
3	4.3215	28.00	10.10	38.10	56.00	-17.90	QP	P	
4 *	4.3215	27.18	10.10	37.28	46.00	-8.72	AVG	P	
5	5.0415	29.92	10.12	40.04	60.00	-19.96	QP	P	
6	5.0415	28.25	10.12	38.37	50.00	-11.63	AVG	P	
7	5.7614	27.98	10.12	38.10	60.00	-21.90	QP	P	
8	5.7614	26.78	10.12	36.90	50.00	-13.10	AVG	P	
9	6.4813	29.00	10.10	39.10	60.00	-20.90	QP	P	
10	6.4813	28.02	10.10	38.12	50.00	-11.88	AVG	P	
11	7.2015	28.10	10.10	38.20	60.00	-21.80	QP	P	
12	7.2015	27.34	10.10	37.44	50.00	-12.56	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				
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

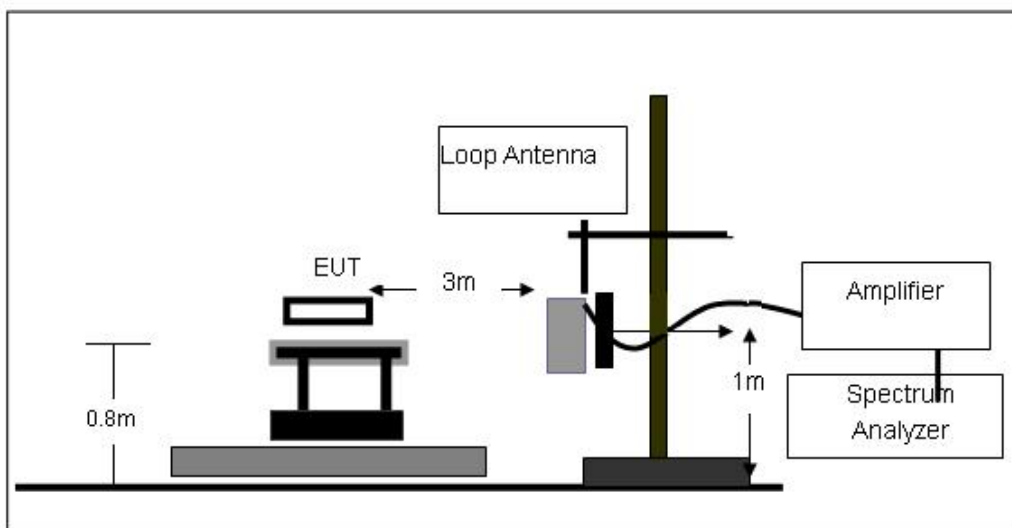
Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Limits for frequency Above 30MHz

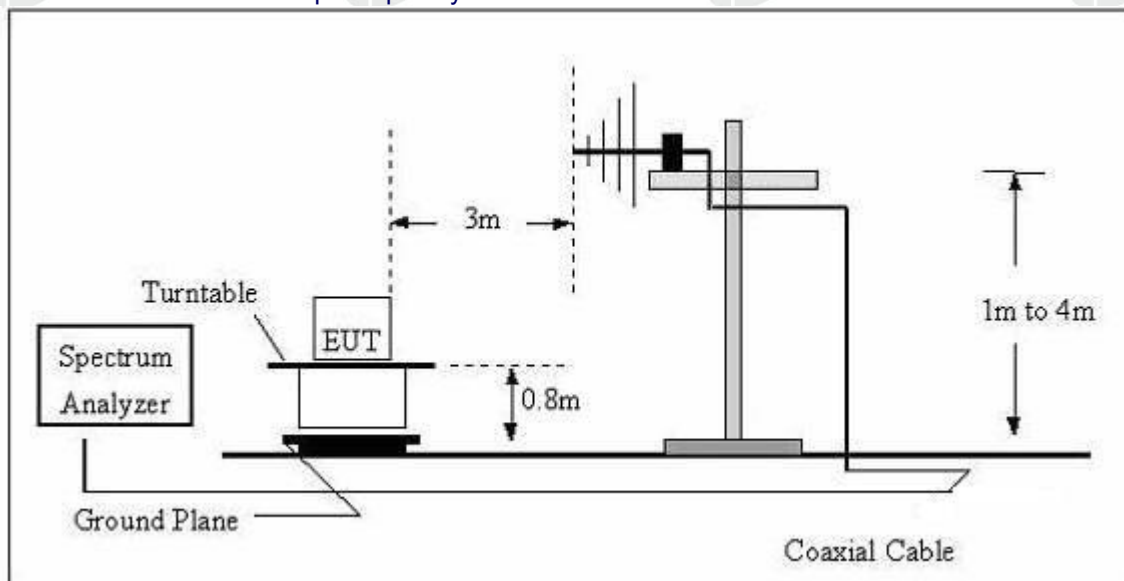
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

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. 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

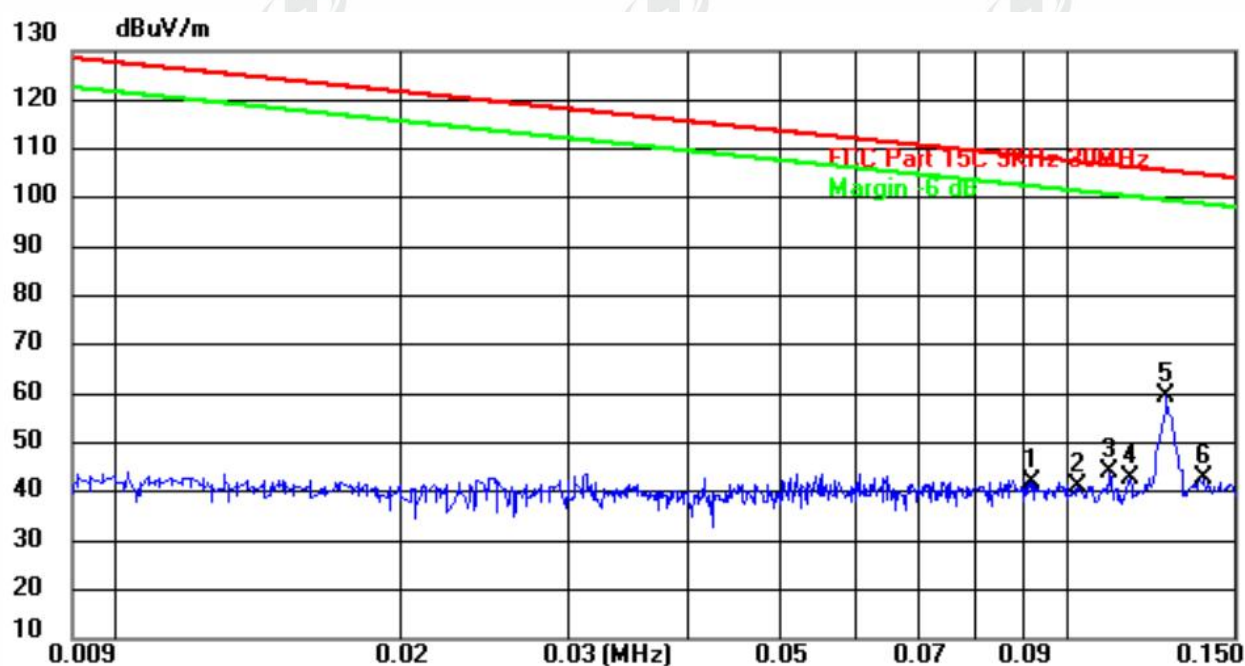
Measurement data:

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

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

9 kHz~150 kHz

Temperature:	24.0℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 16

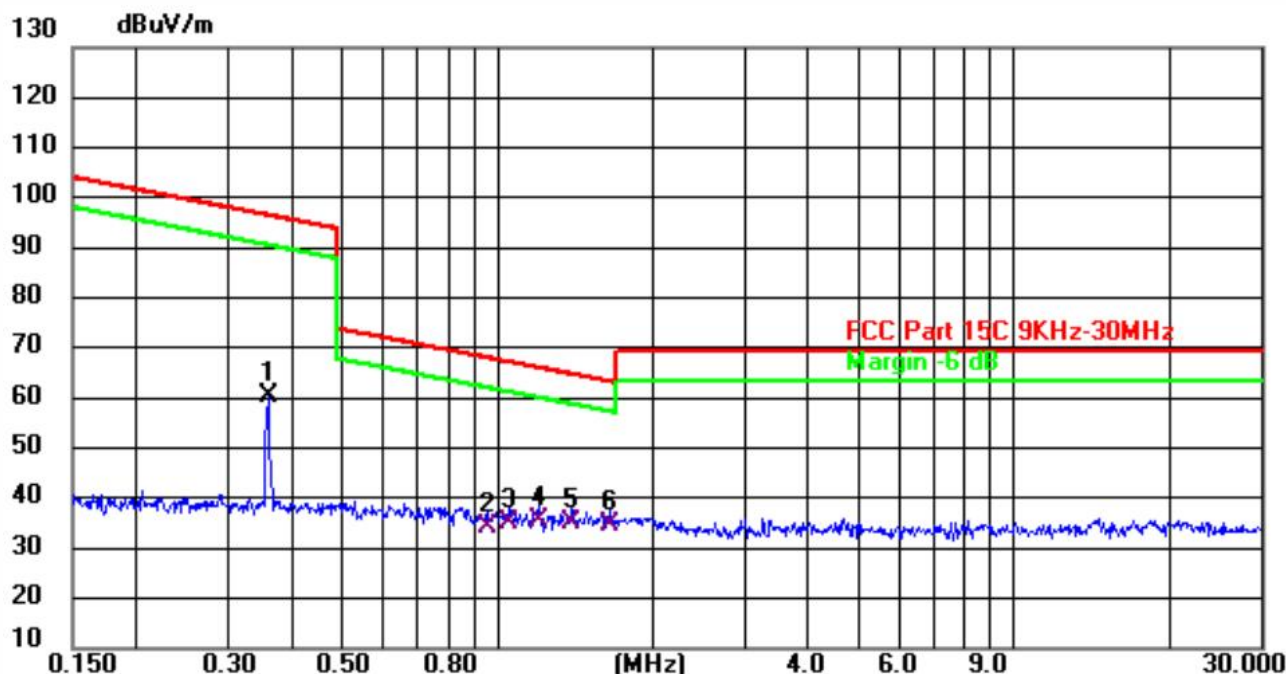


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	0.0920	21.82	20.05	41.87	108.33	-66.46	peak	-	-	P
2	0.1024	20.99	20.06	41.05	107.40	-66.35	peak	-	-	P
3	0.1110	24.05	20.07	44.12	106.70	-62.58	peak	-	-	P
4	0.1165	22.82	20.08	42.90	106.28	-63.38	peak	-	-	P
5 *	0.1277	39.32	20.10	59.42	105.53	-46.11	peak	-	-	P
6	0.1392	22.87	20.11	42.98	104.73	-61.75	peak	-	-	P



150 kHz~30 MHz

Temperature:	24.0℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 16



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	33.2111	40.53	-9.77	30.76	40.00	-9.24	QP	-	-	P
2 !	35.4992	43.95	-9.53	34.42	40.00	-5.58	QP	-	-	P
3 *	36.8952	45.47	-9.37	36.10	40.00	-3.90	QP	-	-	P
4 !	37.8121	44.20	-9.28	34.92	40.00	-5.08	QP	-	-	P
5	40.5591	42.46	-9.00	33.46	40.00	-6.54	QP	-	-	P
6 !	41.2764	43.55	-8.96	34.59	40.00	-5.41	QP	-	-	P

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.

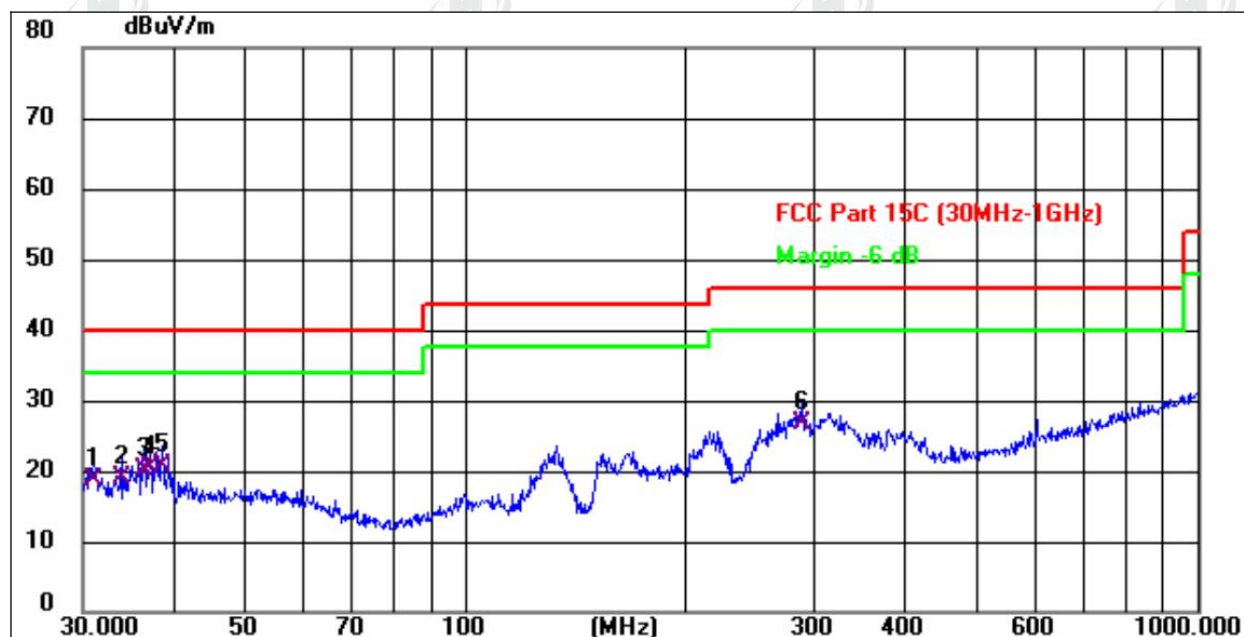
The amplitude of emissions which are attenuated by more than 20db below the permissible value has no need to be reported.

'!'Means the test Degree and Height are not recorded by the test software and only show the worstcase in the test report.



30MHz-1GHz

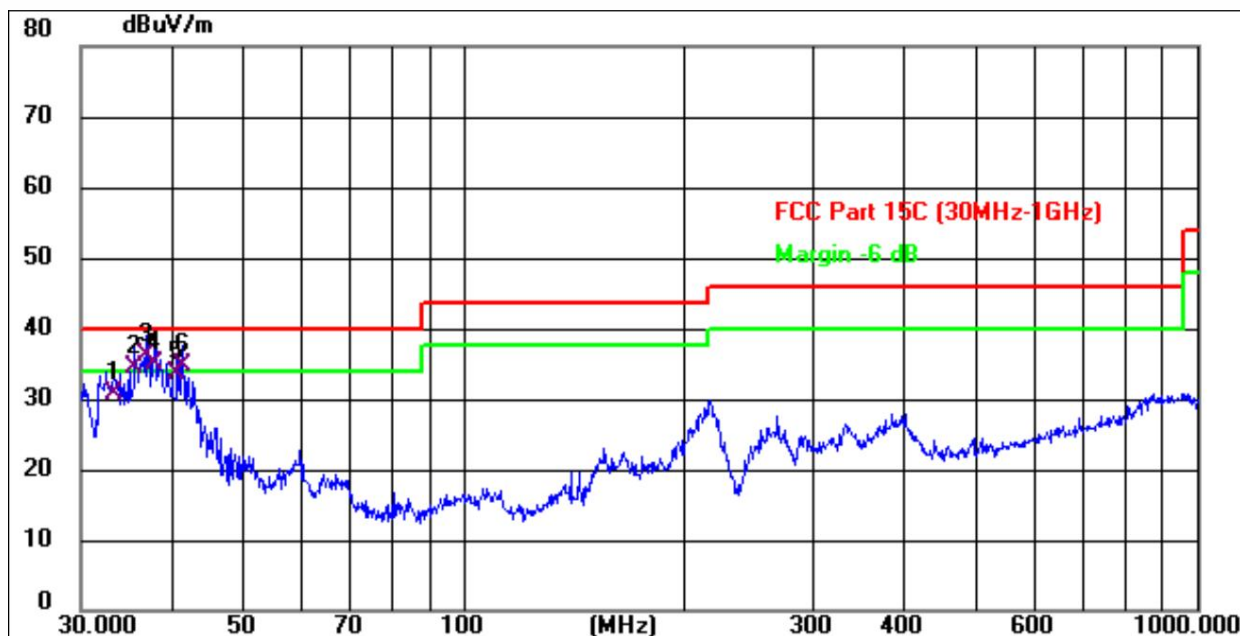
Temperature:	24.0℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 16



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	31.0704	28.80	-10.00	18.80	40.00	-21.20	QP	-	-	P
2	33.9172	28.65	-9.70	18.95	40.00	-21.05	QP	-	-	P
3	36.3813	29.59	-9.43	20.16	40.00	-19.84	QP	-	-	P
4	37.1550	29.74	-9.35	20.39	40.00	-19.61	QP	-	-	P
5	38.6160	29.85	-9.19	20.66	40.00	-19.34	QP	-	-	P
6 *	287.9904	34.14	-7.44	26.70	46.00	-19.30	QP	-	-	P



Temperature:	24.0°C	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 16



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	33.2111	40.53	-9.77	30.76	40.00	-9.24	QP	-	-	P
2 !	35.4992	43.95	-9.53	34.42	40.00	-5.58	QP	-	-	P
3 *	36.8952	45.47	-9.37	36.10	40.00	-3.90	QP	-	-	P
4 !	37.8121	44.20	-9.28	34.92	40.00	-5.08	QP	-	-	P
5	40.5591	42.46	-9.00	33.46	40.00	-6.54	QP	-	-	P
6 !	41.2764	43.55	-8.96	34.59	40.00	-5.41	QP	-	-	P

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





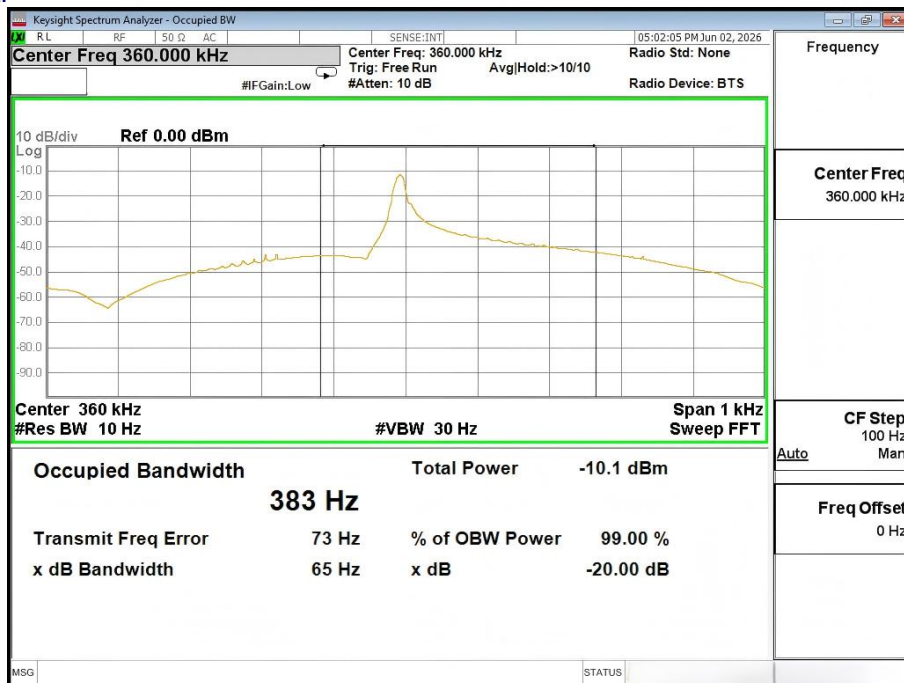
Temperature:	23.8°C	Relative Humidity:	54.1%
Pressure:	101.4kPa		

Coil	Frequency (kHz)	20dB bandwidth (kHz)	Result
Phone coil	127.7	0.025	Pass
	360	0.065	Pass
Earbuds	127	0.030	Pass

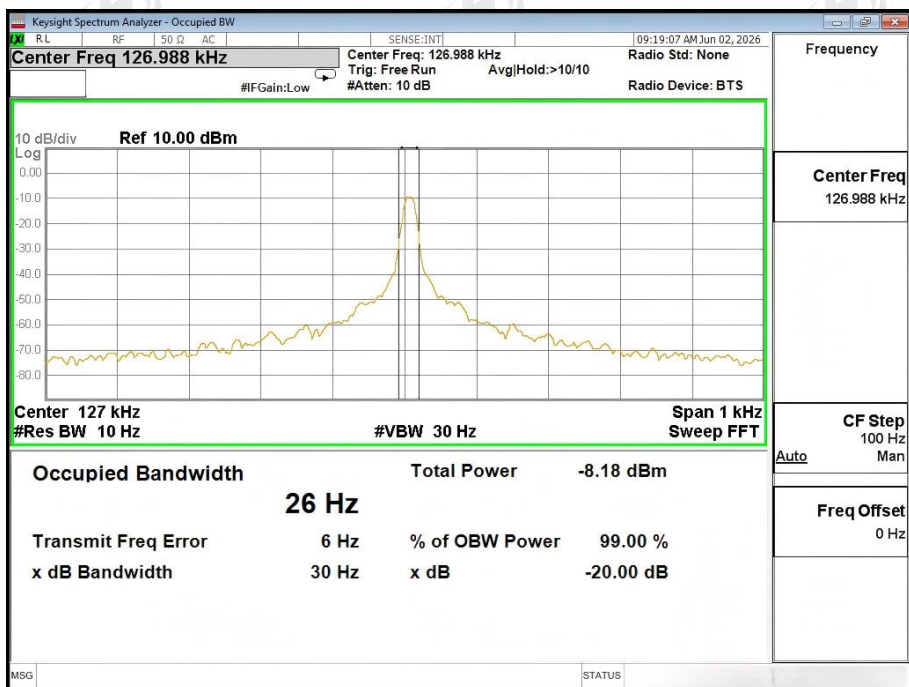
Phone coil



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.



Earbuds 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 *******