

TEST REPORT

Report No.: BCTC2507343539-1E

Applicant: Ugreen Group Limited

Product Name: 3-in-1 Magnetic Wireless Charger

Test Model: W707

Tested Date: 2025-07-23 to 2025-09-18

Issued Date: 2025-09-26

Shenzhen **BCTC** Testing Co., Ltd.



FCC ID:2AQI5-W707A

Product Name: 3-in-1 Magnetic Wireless Charger

Trademark: **UGREEN**

Model/Type Reference: W707

Prepared For: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

Manufacturer: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2025-07-23

Sample Tested Date: 2025-07-23 to 2025-09-18

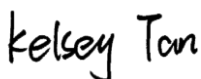
Issue Date: 2025-09-26

Report No.: BCTC2507343539-1E

Test Standards: FCC Part15C
ANSI C63.10:2013

Test Results: PASS

Tested by:



Kelsey Tan/ Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

Table Of Content

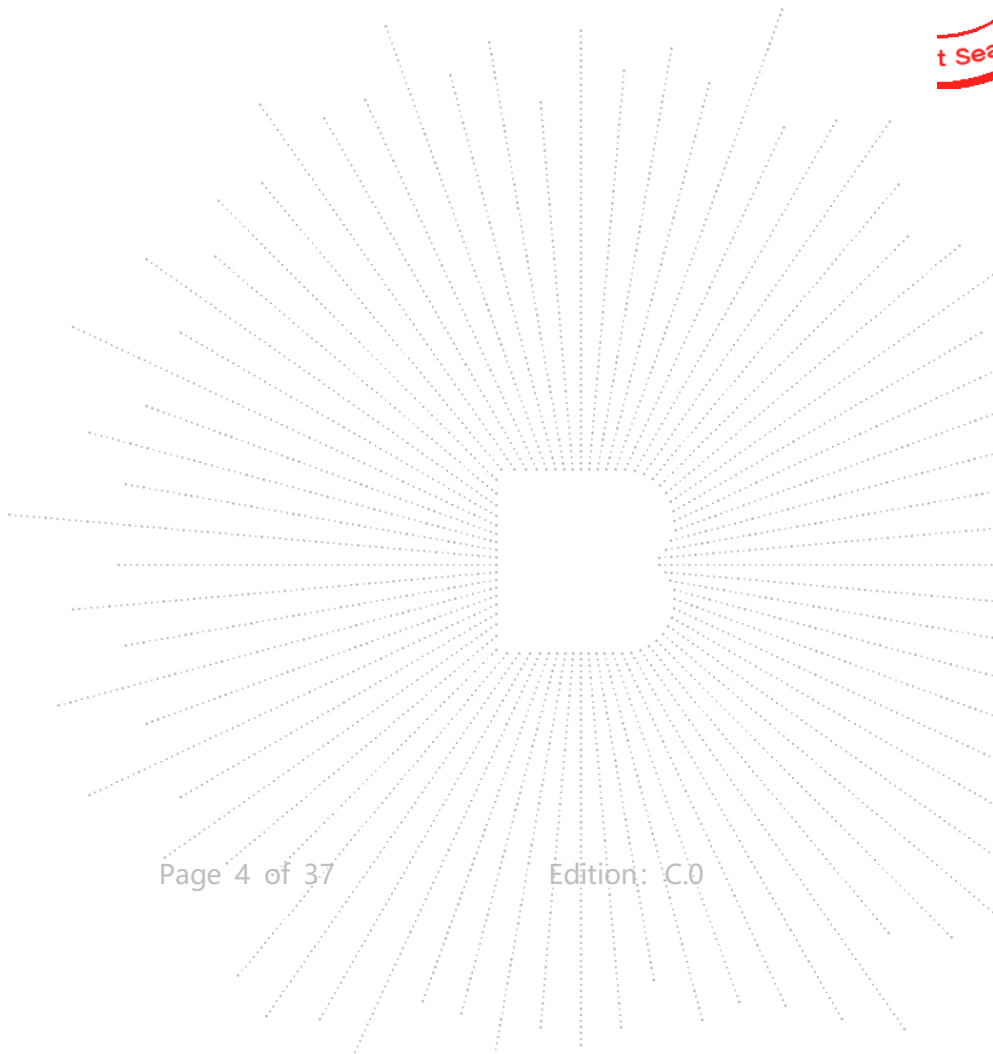
Test Report Declaration	Page
1. Version	4
2. Test Summary	5
3. Measurement Uncertainty	6
4. Product Information And Test Setup	7
4.1 Product Information	7
4.2 Support Equipment	7
4.3 Test Setup Configuration	8
5. Test Facility And Test Instrument Used	11
5.1 Test Facility	11
5.2 Test Instrument Used	11
6. Conducted Emissions	13
6.1 Block Diagram Of Test Setup	13
6.2 Limit	13
6.3 Test procedure	13
6.4 EUT operating Conditions	13
6.5 Test Result	14
7. Radiated Emissions	16
7.1 Block Diagram Of Test Setup	16
7.2 Limit	17
7.3 Test procedure	17
7.4 Test Result	18
8. Bandwidth Test	30
8.1 Test Procedure	30
8.2 Test Setup	30
8.3 Test Result	31
9. Antenna Requirements	34
9.1 Limit	34
9.2 Test Result	34
10. EUT Photographs	35
11. EUT Test Setup Photographs	36

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2507343539-1E	2025-09-26	Original	Valid

TEC
TC
OVER
t See



2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	Antenna Requirement	15.203	PASS



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	Conducted Emission (150kHz-30MHz)	U=3.2dB
3	humidity uncertainty	U=5.3%
4	Temperature uncertainty	U=0.59°C

CO., LTD.

4. Product Information And Test Setup

4.1 Product Information

Model/Type Reference:	W707
P/N code Differences:	All the P/N code and test models are the same circuit and RF module, except for the sales platform.
Hardware Version:	A1
Software Version:	A1
Operation Frequency:	Phone:5W+7.5W:112-148.5kHz; 15W: 360kHz Airpods:112kHz-148.5kHz Watch:326.5kHz; 1.778MHz
Modulation:	ASK
Antenna installation:	Loop Coil antenna 1 for Phone Loop Coil antenna 2 for watch Loop Coil antenna 3 for Airpods
Ratings:	USB-C1 Input: 5.0V $\pm$ 3.0A/9.0V $\pm$ 3A /12.0V $\pm$ 2.5A Wireless Charging Total Output Power: 25.0W Max(iPhone:15.0W, Apple Watch/Airpods: 5.0W)
Adapter Information:	Manufacture: Ugreen Group Limited Model No.:CD319 Input: 100-240V~ 50/60Hz 800mA Max Output: 5.0V $\pm$ 3.0A, 9.0V $\pm$ 3.0A, 12.0V $\pm$ 2.5A, 15V $\pm$ 2.0A, 20V $\pm$ 1.5A, 3.3-11.0V $\pm$ 2.7A

Remark:

- P/N code in the below table, for marketing purpose, will be marked on the marking plate.

45058	45058P	45058X	45058A	45058B	45058U	45058JP	45058ZD
45024	45024P	45024X	45024A	45024B	45024U	45024JP	45024ZD
45980	45980P	45980X	45980A	45980B	45980U	45980JP	45980ZD

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	3-in-1 Magnetic Wireless Charger	UGREEN	W707	N/A	EUT
E-2	Adapter	UGREEN	CD319	N/A	EUT
E-3	Phone	APPLE	8P(5W/7.5W)	N/A	Auxiliary
E-4	Airpods	APPLE	Pro 2	N/A	Auxiliary
E-5	Watch	APPLE	S9	N/A	Auxiliary
E-6	Phone	APPLE	16 Pro Max(15W)	N/A	Auxiliary

Notes:

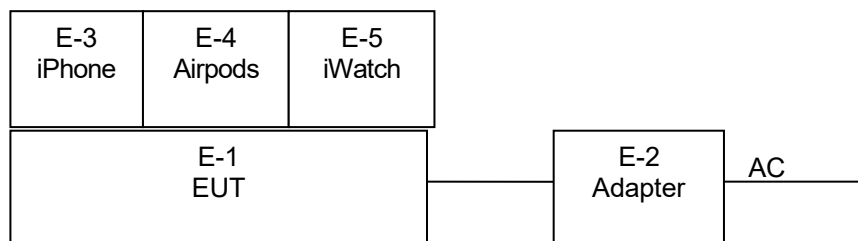
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

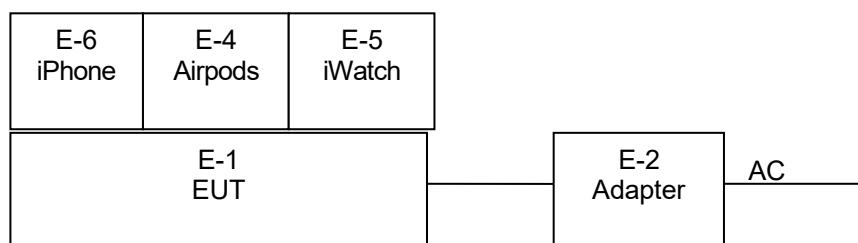
Conducted Emission and Radiated Spurious Emission:

Test Mode 1, 2

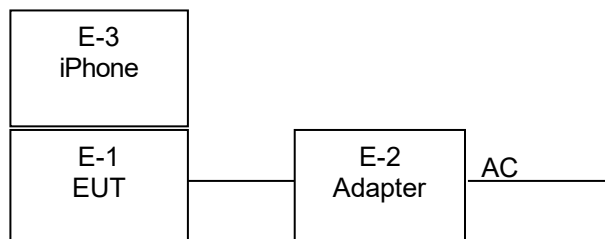


Conducted Emission and Radiated Spurious Emission:

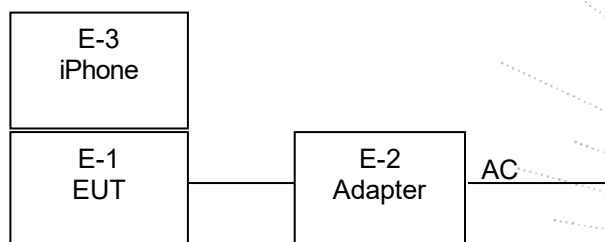
Test Mode 3



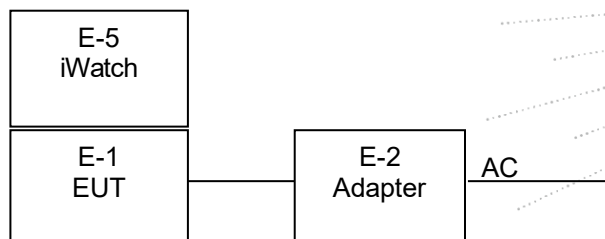
Test Mode 4, 5



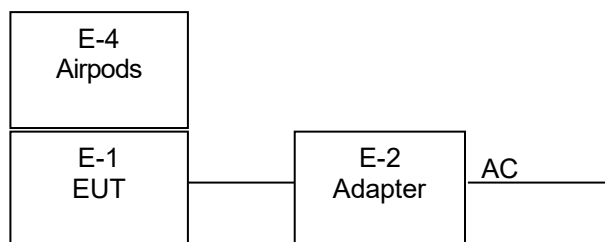
Test Mode 6



Test Mode 7,8



Test Mode 9



4.4 Test Mode

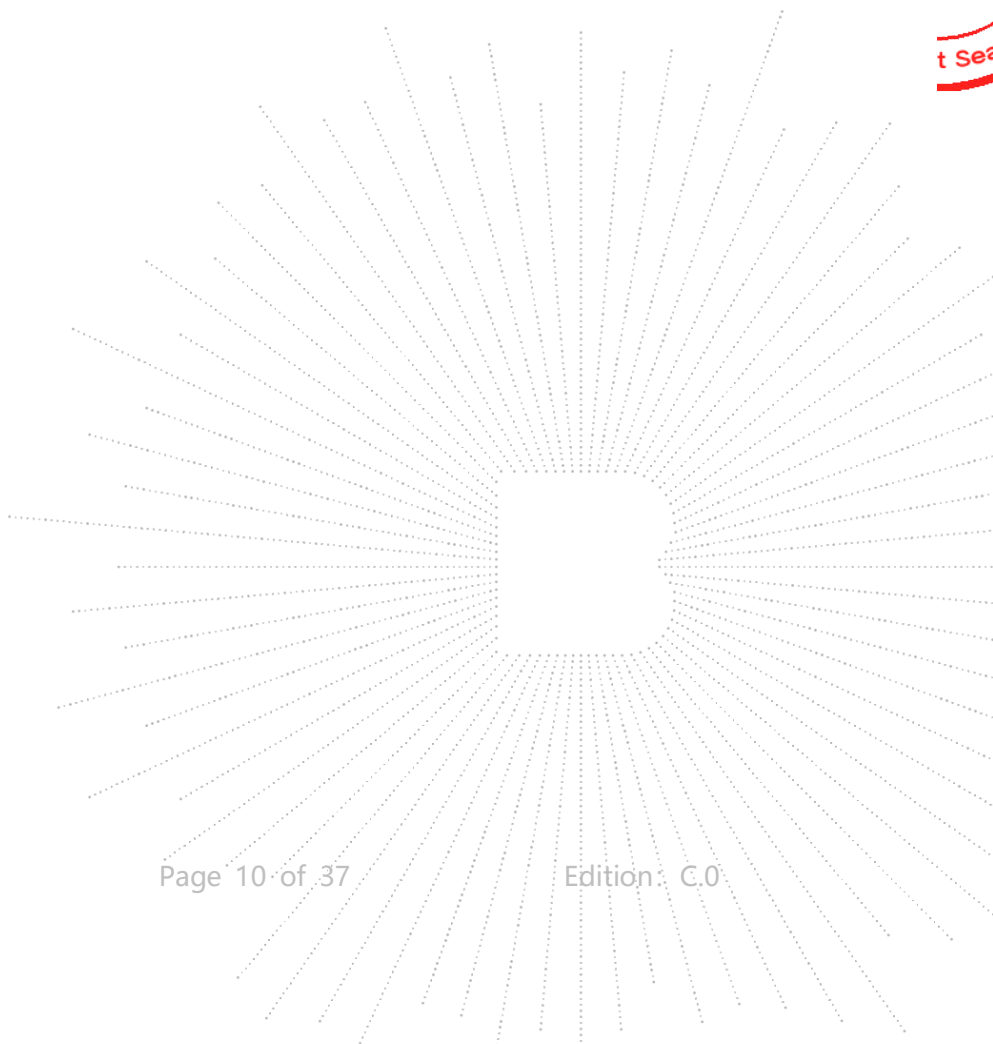
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

AC Mode	Mode 1	iPhone:5W+Airpods: 5W+Apple Watch 5W (Battery Status: 1%)
	Mode 2	iPhone:7.5W+Airpods: 5W+Apple Watch 5W (Battery Status: 1%)
	Mode 3	iPhone:15W+Airpods: 5W+Apple Watch 5W (Battery Status: 1%)
AC Mode	Mode 4	iPhone: 5 W (Battery Status: 1%)
	Mode 5	iPhone: 7.5W (Battery Status: 1%)
	Mode 6	iPhone: 15W (Battery Status: 1%)
	Mode 7	Watch 3W (Battery Status: 1%)
	Mode 8	Watch 5W (Battery Status: 1%)
	Mode 9	AirPods 5W (Battery Status: 1%)
AC Mode	Mode 10	iPhone:5W+Airpods: 5W+Apple Watch 5W (Battery Status: 50%)
	Mode 11	iPhone:7.5W+Airpods: 5W+Apple Watch 5W (Battery Status: 50%)
	Mode 12	iPhone:15W+Airpods: 5W+Apple Watch 5W (Battery Status: 50%)
AC Mode	Mode 13	iPhone: 5 W (Battery Status: 50%)
	Mode 14	iPhone: 7.5W (Battery Status: 50%)
	Mode 15	iPhone: 15W (Battery Status: 50%)
	Mode 16	Watch 3W (Battery Status: 50%)
	Mode 17	Watch 5W (Battery Status: 50%)
	Mode 18	AirPods 5W (Battery Status: 50%)

AC Mode	Mode 19	iPhone:5W+Airpods: 5W+Apple Watch 5W (Battery Status: 99%)
	Mode 20	iPhone:7.5W+Airpods: 5W+Apple Watch 5W (Battery Status: 99%)
	Mode 21	iPhone:15W+Airpods: 5W+Apple Watch 5W (Battery Status: 99%)
AC Mode	Mode 22	iPhone: 5 W (Battery Status: 99%)
	Mode 23	iPhone: 7.5W (Battery Status: 99%)
	Mode 24	iPhone: 15W (Battery Status: 99%)
	Mode 25	Watch 3W (Battery Status: 99%)
	Mode 26	Watch 5W (Battery Status: 99%)
	Mode 27	AirPods 5W (Battery Status: 99%)

Note: All test mode were tested and passed, only shows the worst case mode which were recorded in this report.

TE
TO
OVB
t Se



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

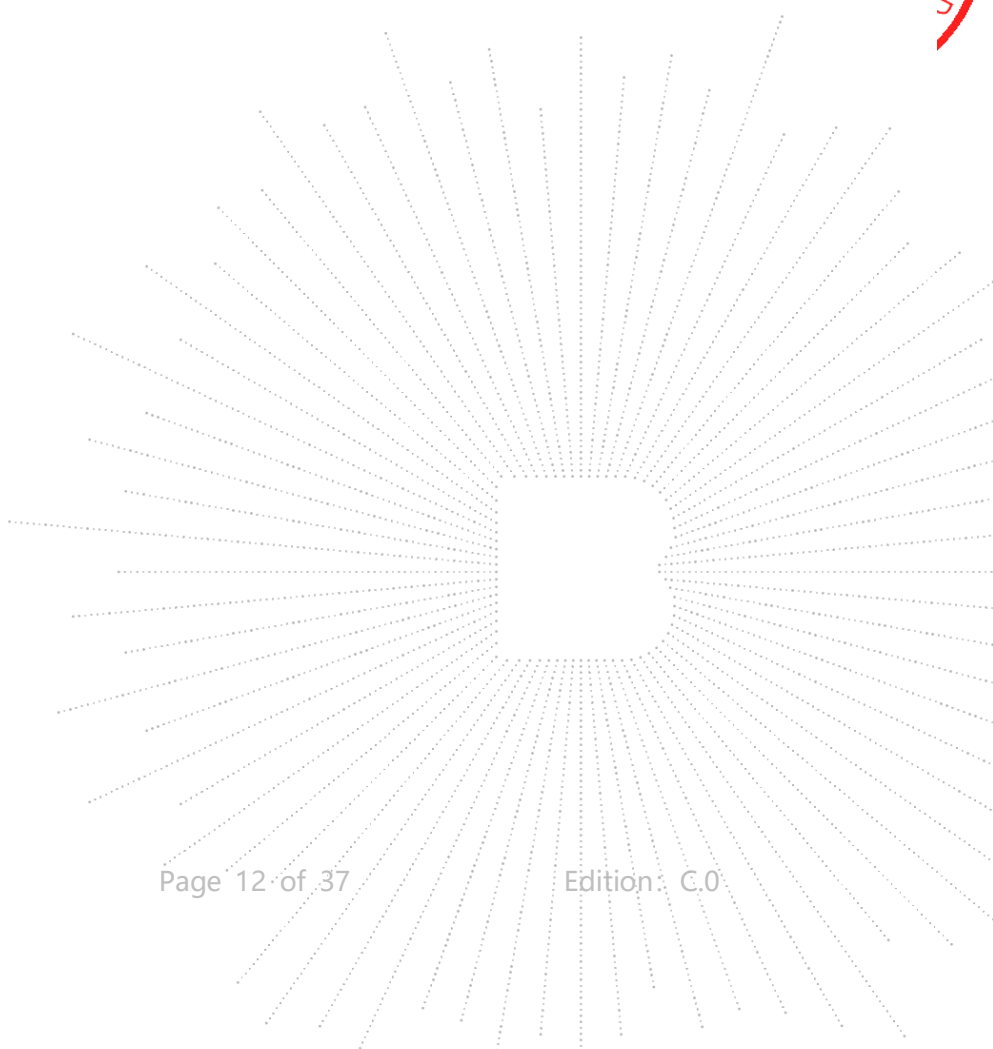
5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 14, 2025	May 13, 2026

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Meter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	100363	May 14, 2025	May 13, 2026

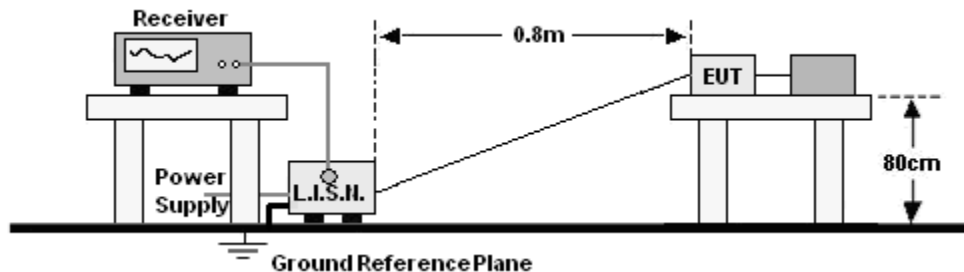
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G1 8G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 24, 2025	May 23, 2026
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

CO., LTD.



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

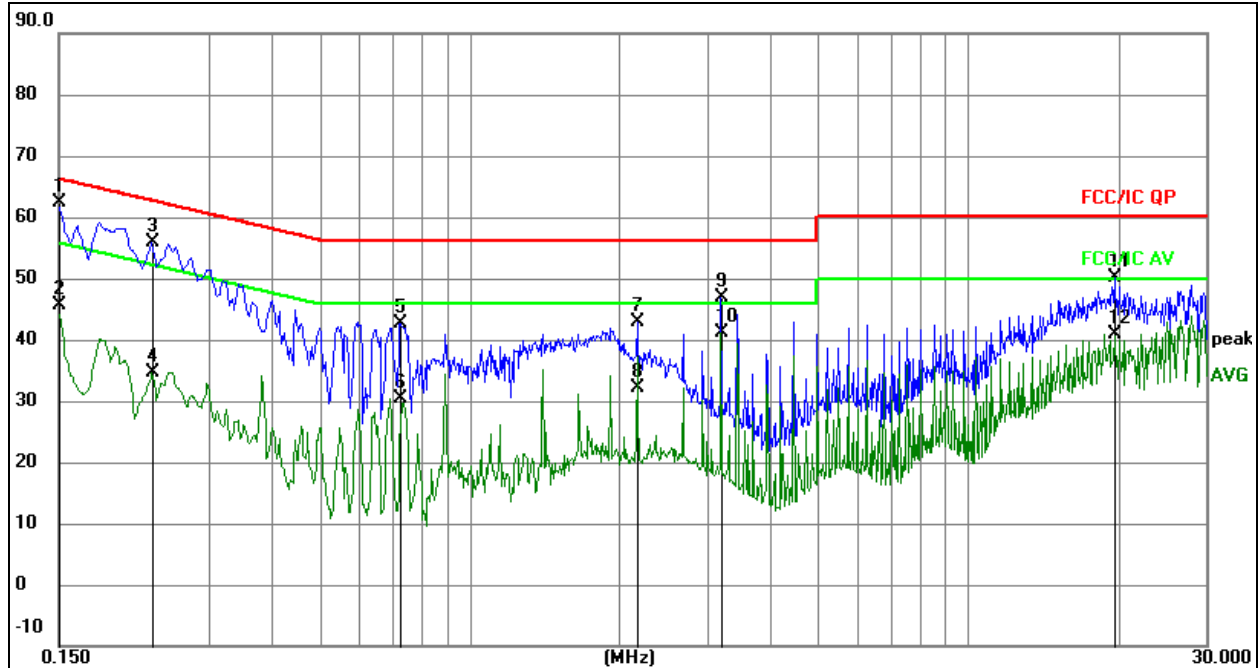
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 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.

6.5 Test Result

Temperature:	23.8℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz

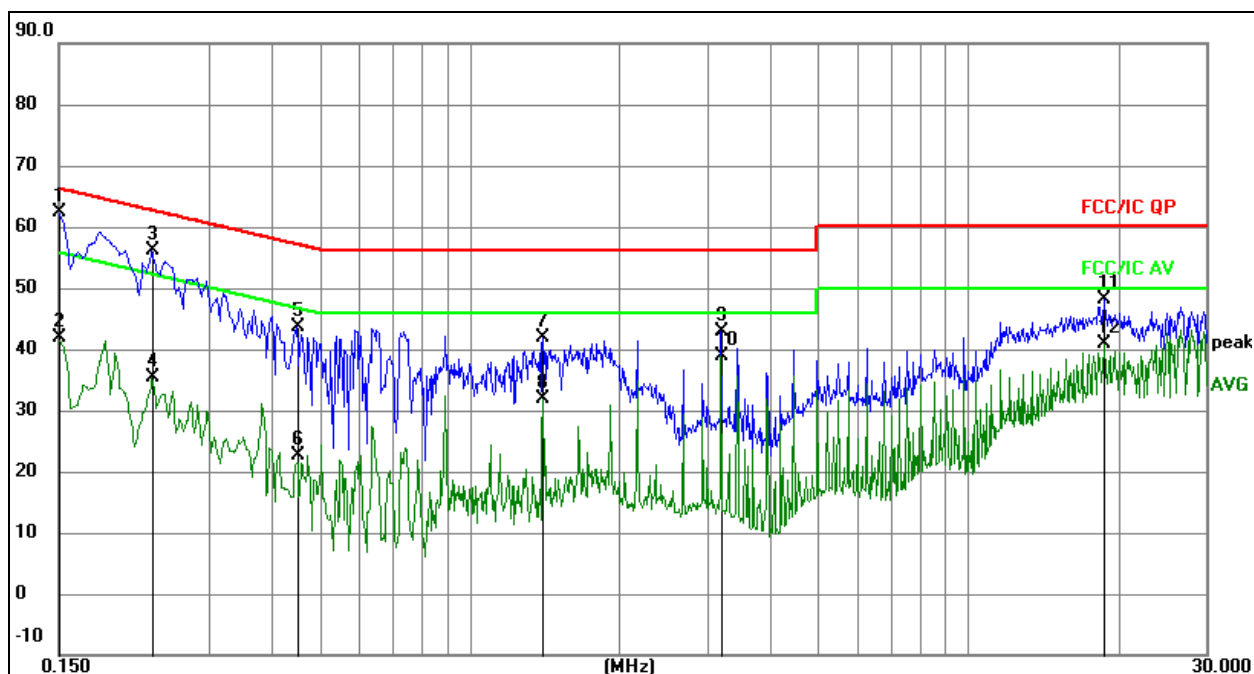


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1500	42.45	20.04	62.49	66.00	-3.51	QP
2		0.1500	25.66	20.04	45.70	56.00	-10.30	AVG
3		0.2304	35.86	20.04	55.90	62.44	-6.54	QP
4		0.2304	14.68	20.04	34.72	52.44	-17.72	AVG
5		0.7273	22.44	20.26	42.70	56.00	-13.30	QP
6		0.7273	10.11	20.26	30.37	46.00	-15.63	AVG
7		2.1668	22.65	20.22	42.87	56.00	-13.13	QP
8		2.1668	11.91	20.22	32.13	46.00	-13.87	AVG
9		3.1900	26.43	20.44	46.87	56.00	-9.13	QP
10		3.1900	20.65	20.44	41.09	46.00	-4.91	AVG
11		19.6354	26.63	23.51	50.14	60.00	-9.86	QP
12		19.6354	17.45	23.51	40.96	50.00	-9.04	AVG

Temperature:	23.8°C	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz


Remark:

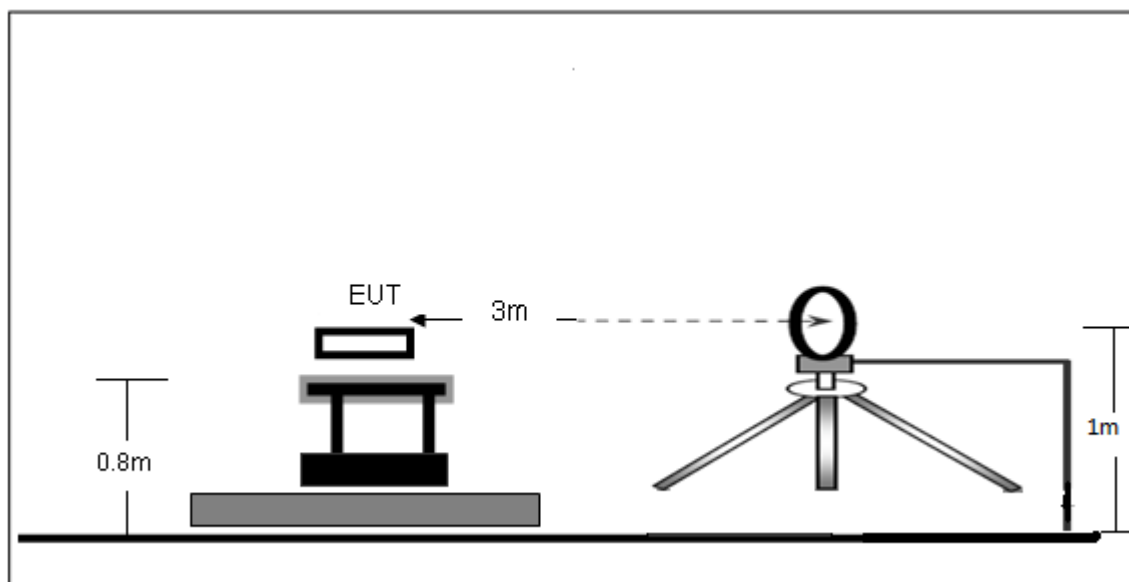
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1	*	0.1500	42.44	20.04	62.48	66.00	-3.52	QP
2		0.1500	21.75	20.04	41.79	56.00	-14.21	AVG
3		0.2304	36.09	20.04	56.13	62.44	-6.31	QP
4		0.2304	15.34	20.04	35.38	52.44	-17.06	AVG
5		0.4492	23.45	20.06	43.51	56.89	-13.38	QP
6		0.4492	2.46	20.06	22.52	46.89	-24.37	AVG
7		1.4032	21.70	20.23	41.93	56.00	-14.07	QP
8		1.4032	11.63	20.23	31.86	46.00	-14.14	AVG
9		3.1900	22.54	20.44	42.98	56.00	-13.02	QP
10		3.1900	18.34	20.44	38.78	46.00	-7.22	AVG
11		18.7210	24.71	23.31	48.02	60.00	-11.98	QP
12		18.7210	17.54	23.31	40.85	50.00	-9.15	AVG

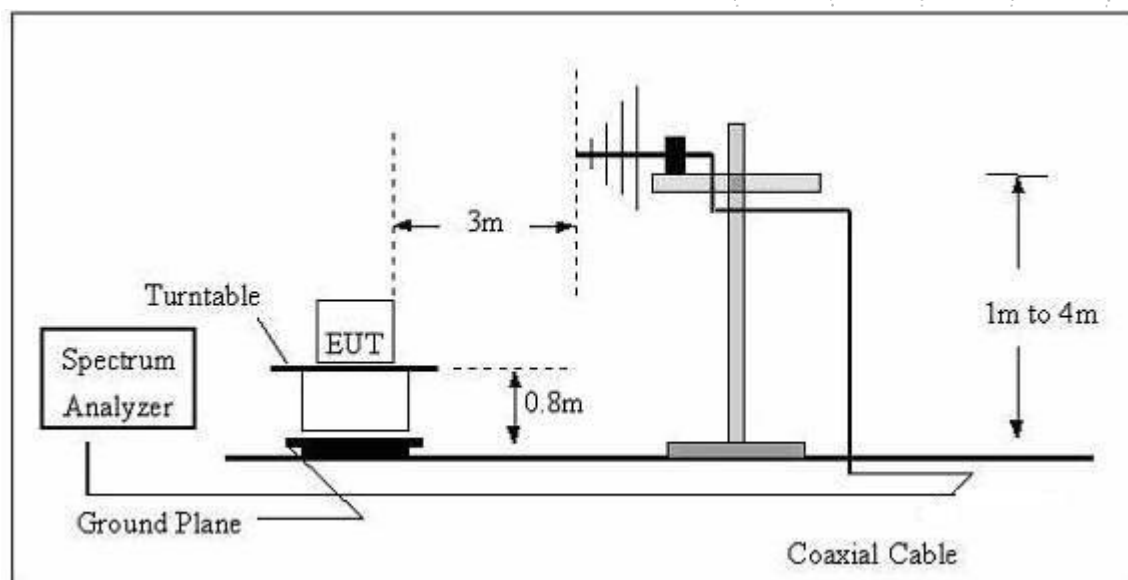
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



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



7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

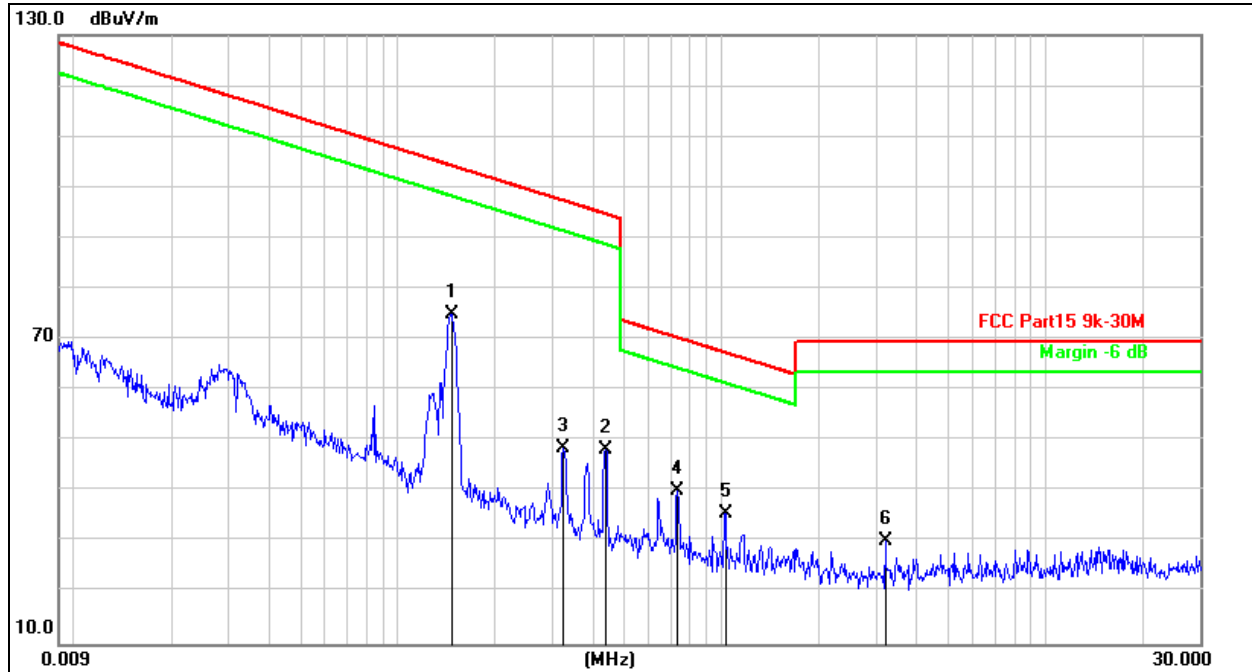
- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 Test Result

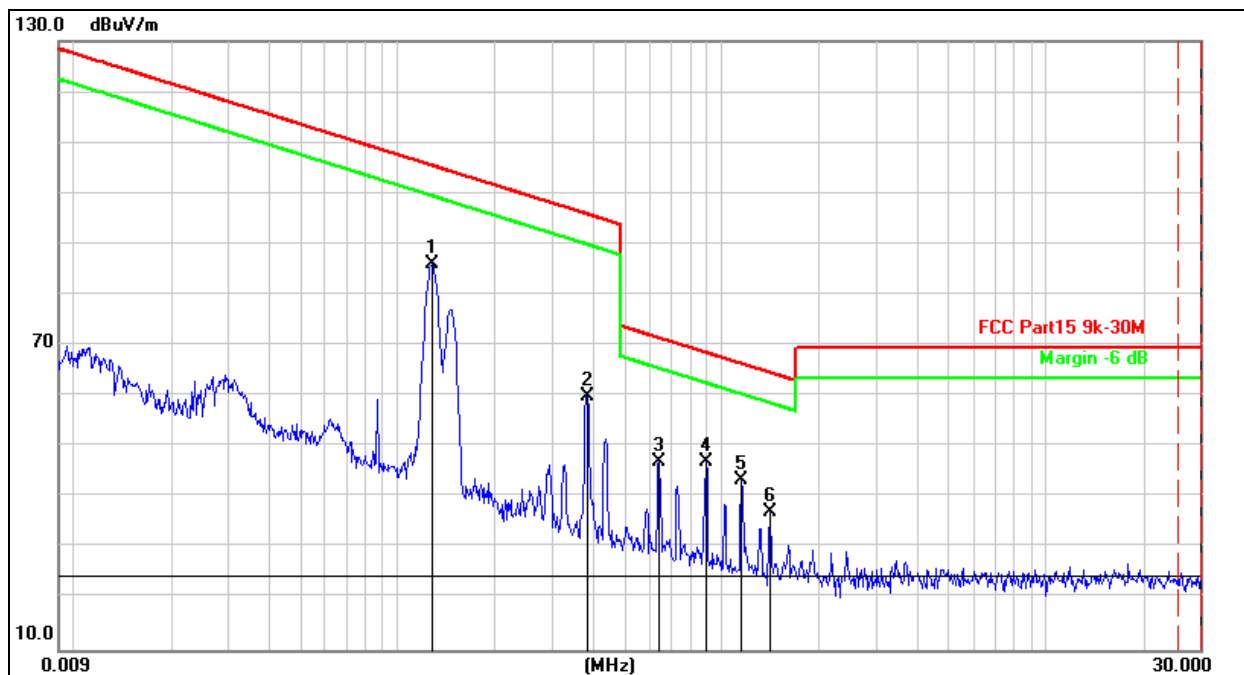
9kHz-30MHz

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 5 (Phone:112k-148.5kHz)	Polarization:	Coaxial



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	0.1466	82.42	-7.57	74.85	104.2	-29.43	peak
2		0.4381	55.80	-7.61	48.19	94.77	-46.58	peak
3		0.3245	56.19	-7.69	48.50	97.38	-48.88	peak
4		0.7305	47.41	-7.36	40.05	70.34	-30.29	peak
5		1.0270	43.05	-7.36	35.69	67.39	-31.70	peak
6		3.1974	37.60	-7.24	30.36	69.54	-39.18	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 5 (Phone:112k-148.5kHz)	Polarization:	Coplanar



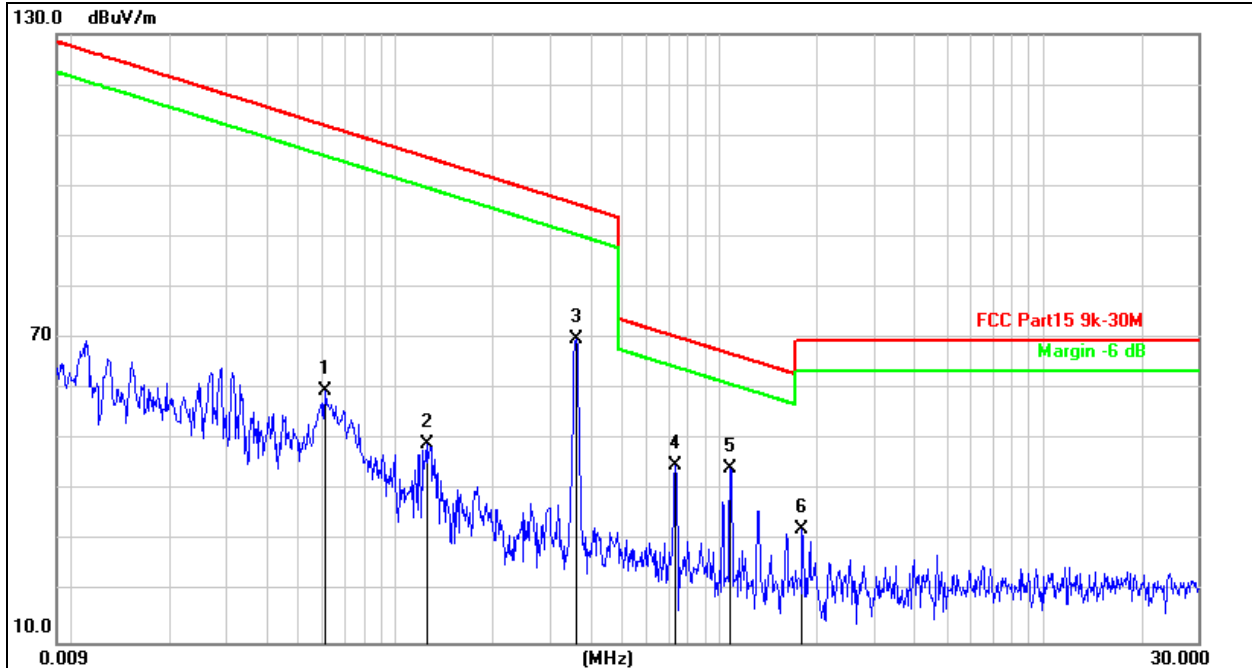
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	0.1277	93.51	-7.54	85.97	105.4	-19.51	peak
2		0.3849	67.51	-7.65	59.86	95.90	-36.04	peak
3		0.6416	54.55	-7.42	47.13	71.47	-24.34	peak
4		0.8948	54.28	-7.36	46.92	68.58	-21.66	peak
5		1.1506	50.84	-7.35	43.49	66.41	-22.92	peak
6		1.4093	44.36	-7.34	37.02	64.65	-27.63	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 6 (Phone:360kHz)	Polarization:	Coaxial



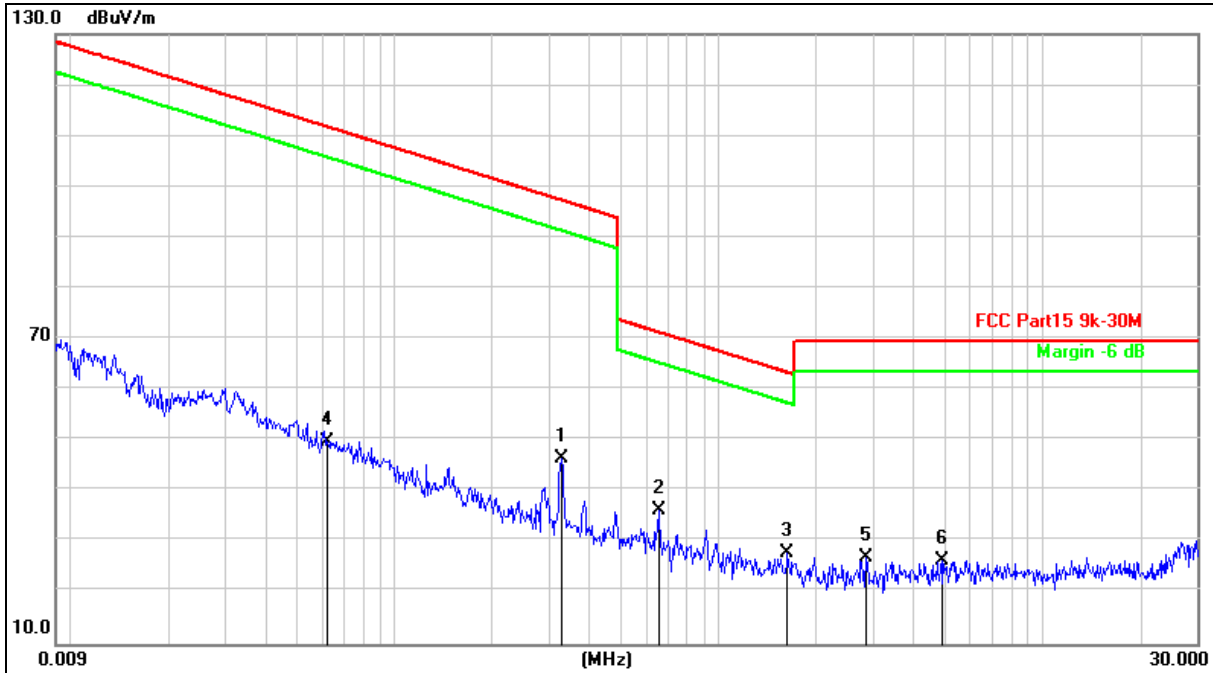
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.3607	73.63	-7.67	65.96	96.46	-30.50	peak
2	*	1.0783	44.15	-7.36	36.79	66.97	-30.18	peak
3		0.7188	42.11	-7.36	34.75	70.48	-35.73	peak
4		2.5272	39.33	-7.30	32.03	69.54	-37.51	peak
5		1.7976	40.35	-7.33	33.02	69.54	-36.52	peak
6		3.9804	40.24	-7.06	33.18	69.54	-36.36	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 6 (Phone:360kHz)	Polarization:	Coplanar



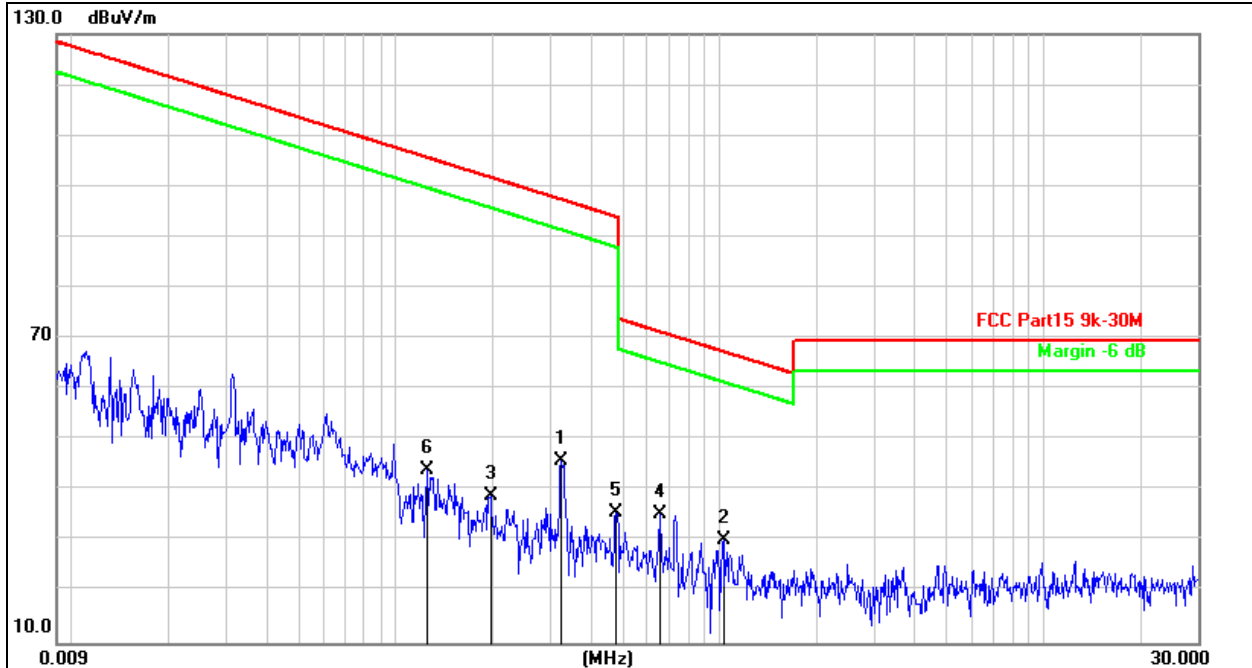
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.0606	67.18	-7.50	59.68	111.9	-52.27	peak
2		0.1246	56.69	-7.53	49.16	105.6	-56.53	peak
3		0.3607	77.57	-7.67	69.90	96.46	-26.56	peak
4		0.7304	52.22	-7.36	44.86	70.34	-25.48	peak
5	*	1.0783	51.70	-7.36	44.34	66.97	-22.63	peak
6		1.7976	39.71	-7.33	32.38	69.54	-37.16	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 7 (Watch: 326.5kHz)	Polarization:	Coaxial



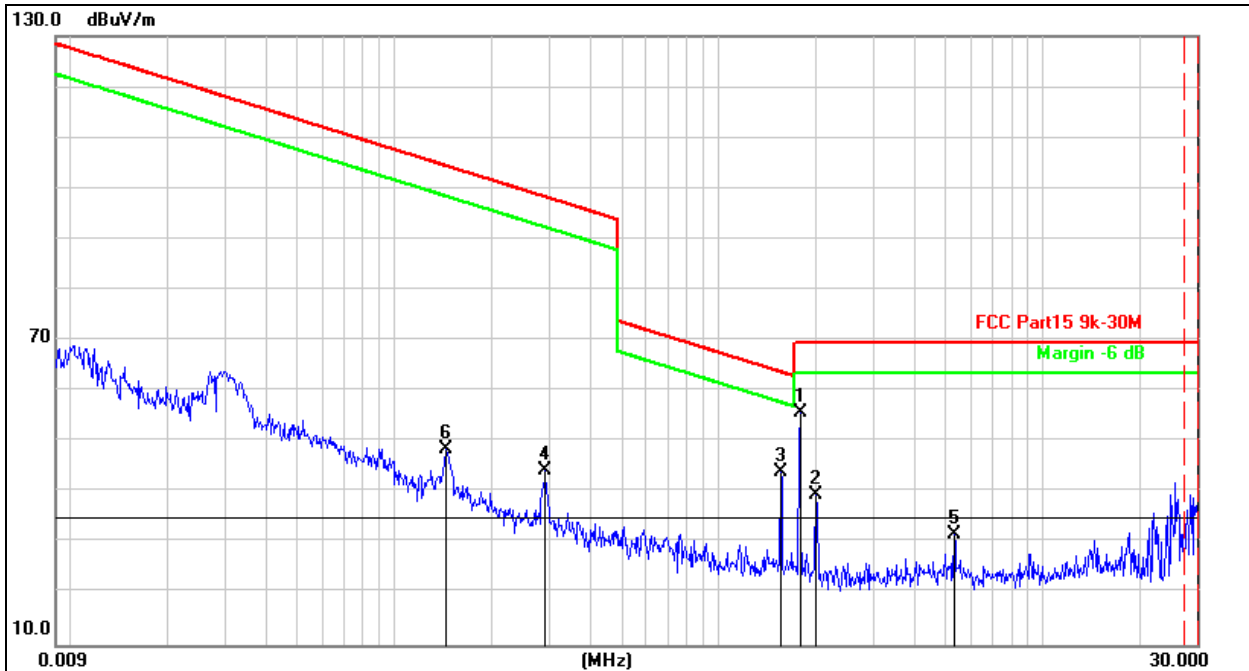
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.3271	54.16	-7.69	46.47	97.31	-50.84	peak
2	*	0.6521	43.65	-7.41	36.24	71.32	-35.08	peak
3		1.6308	35.17	-7.33	27.84	63.39	-35.55	peak
4		0.0619	57.37	-7.53	49.84	111.7	-61.93	peak
5		2.8542	34.12	-7.29	26.83	69.54	-42.71	peak
6		4.8752	33.34	-7.07	26.27	69.54	-43.27	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7 (Watch: 326.5kHz)	Polarization:	Coplanar



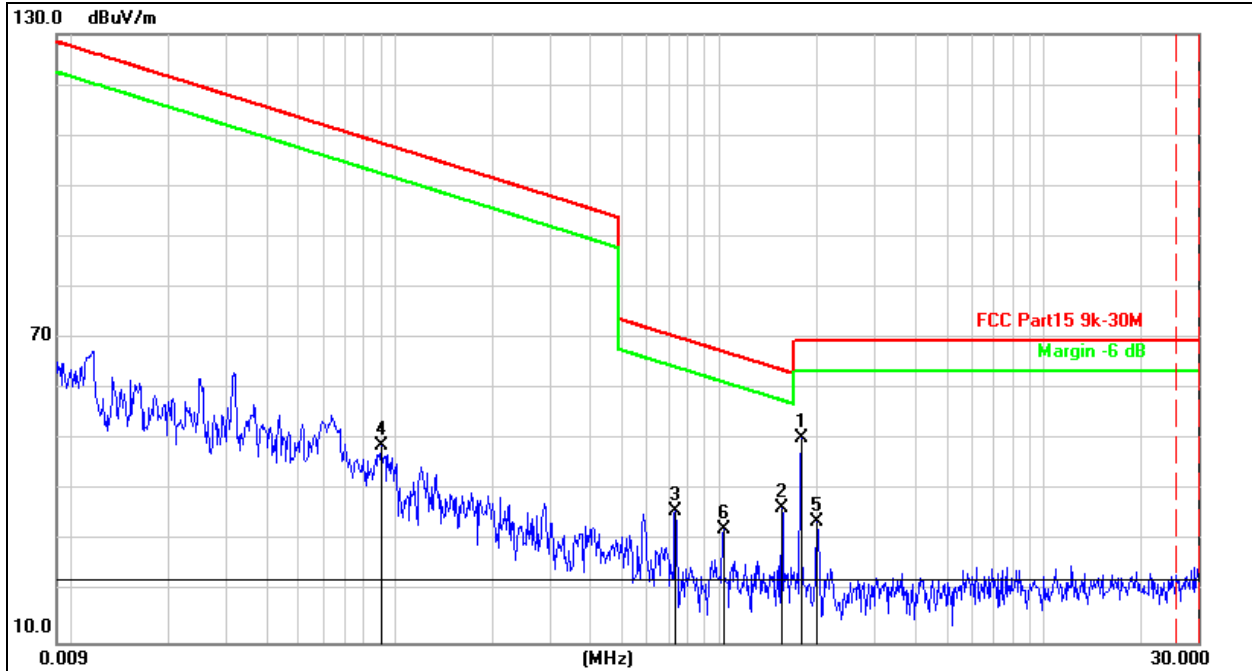
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		0.3246	53.69	-7.69	46.00	97.38	-51.38	peak
2		1.0271	37.60	-7.36	30.24	67.39	-37.15	peak
3		0.1963	46.84	-7.77	39.07	101.7	-62.68	peak
4	*	0.6574	42.72	-7.40	35.32	71.25	-35.93	peak
5		0.4791	43.18	-7.58	35.60	94.00	-58.40	peak
6		0.1257	51.64	-7.54	44.10	105.6	-61.52	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 8 (Watch: 1778kHz)	Polarization:	Coaxial



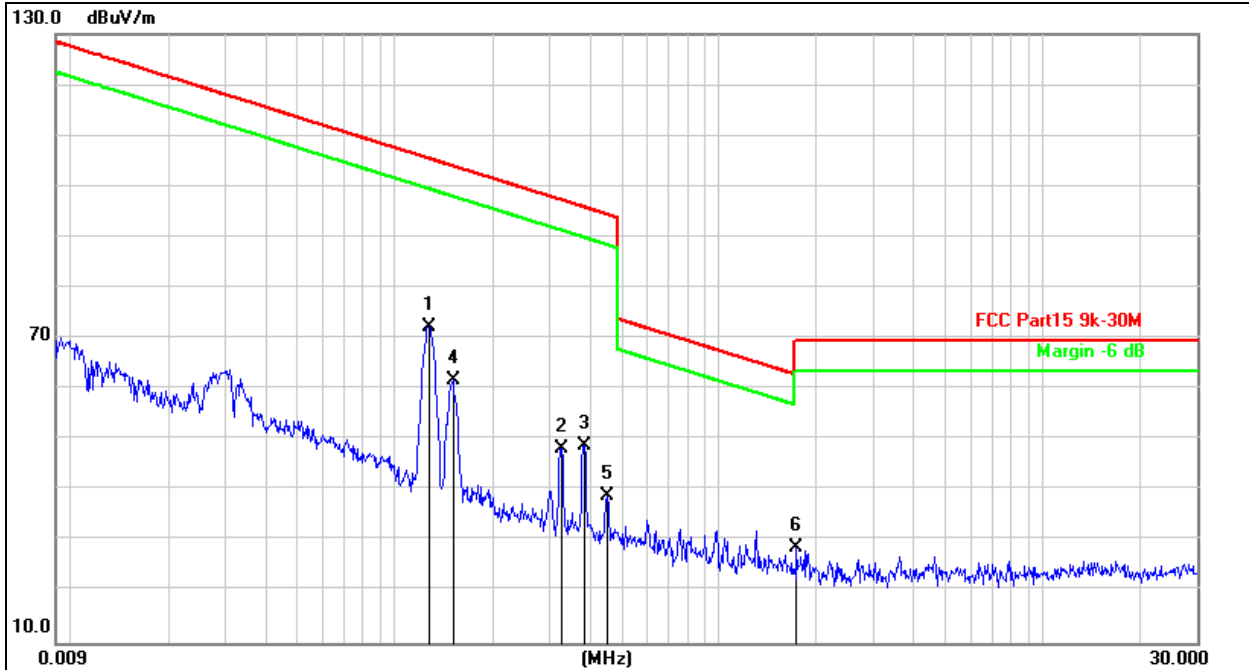
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	1.7830	63.20	-7.33	55.87	69.54	-13.67	peak
2		1.9975	46.80	-7.32	39.48	69.54	-30.06	peak
3		1.5534	51.45	-7.34	44.11	63.81	-19.70	peak
4		0.2921	52.07	-7.72	44.35	98.29	-53.94	peak
5		5.3303	38.98	-7.08	31.90	69.54	-37.64	peak
6		0.1442	56.07	-7.57	48.50	104.4	-55.92	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 8 (Watch: 1778kHz)	Polarization:	Coplanar



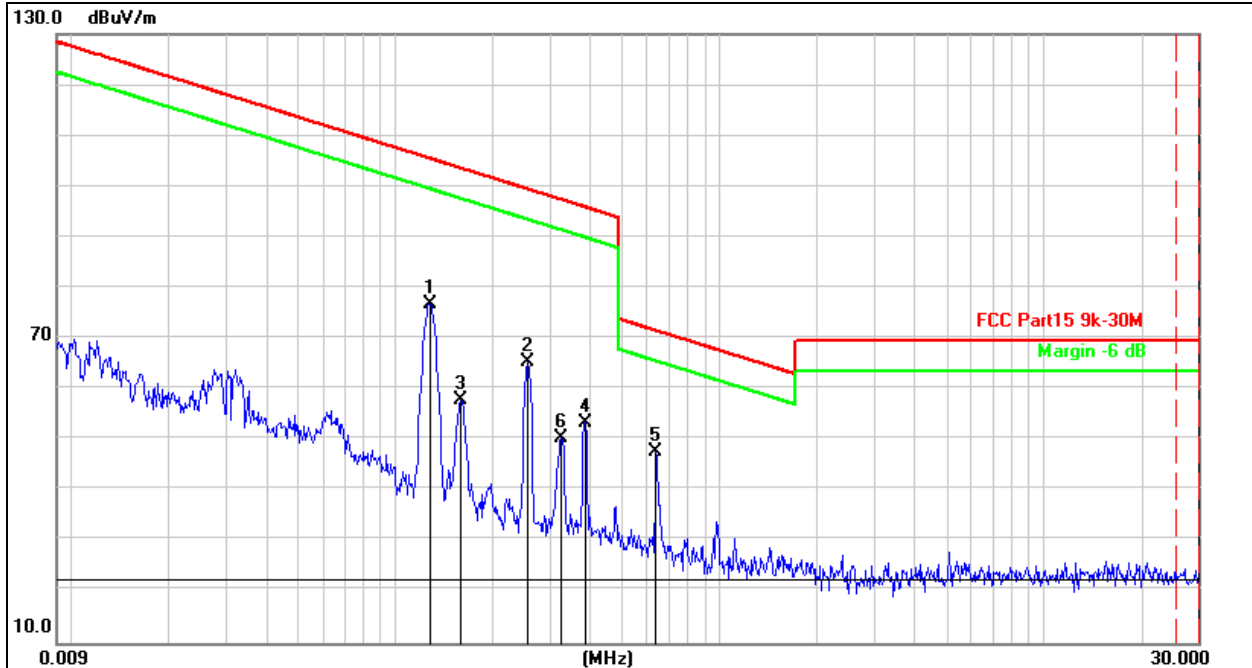
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	1.7830	57.61	-7.33	50.28	69.54	-19.26	peak
2		1.5534	43.89	-7.34	36.55	63.81	-27.26	peak
3		0.7305	43.44	-7.36	36.08	70.34	-34.26	peak
4		0.0901	56.41	-7.56	48.85	108.5	-59.66	peak
5		1.9975	41.02	-7.32	33.70	69.54	-35.84	peak
6		1.0271	39.59	-7.36	32.23	67.39	-35.16	peak

Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 9 (Airpods:112kHz-148.5 kHz)	Polarization:	Coaxial



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	0.1276	79.81	-7.54	72.27	105.4	-33.22	peak
2		0.3271	55.97	-7.69	48.28	97.31	-49.03	peak
3		0.3849	56.54	-7.65	48.89	95.90	-47.01	peak
4		0.1514	69.20	-7.59	61.61	104.0	-42.39	peak
5		0.4526	46.42	-7.60	38.82	94.49	-55.67	peak
6		1.7401	36.15	-7.33	28.82	69.54	-40.72	peak

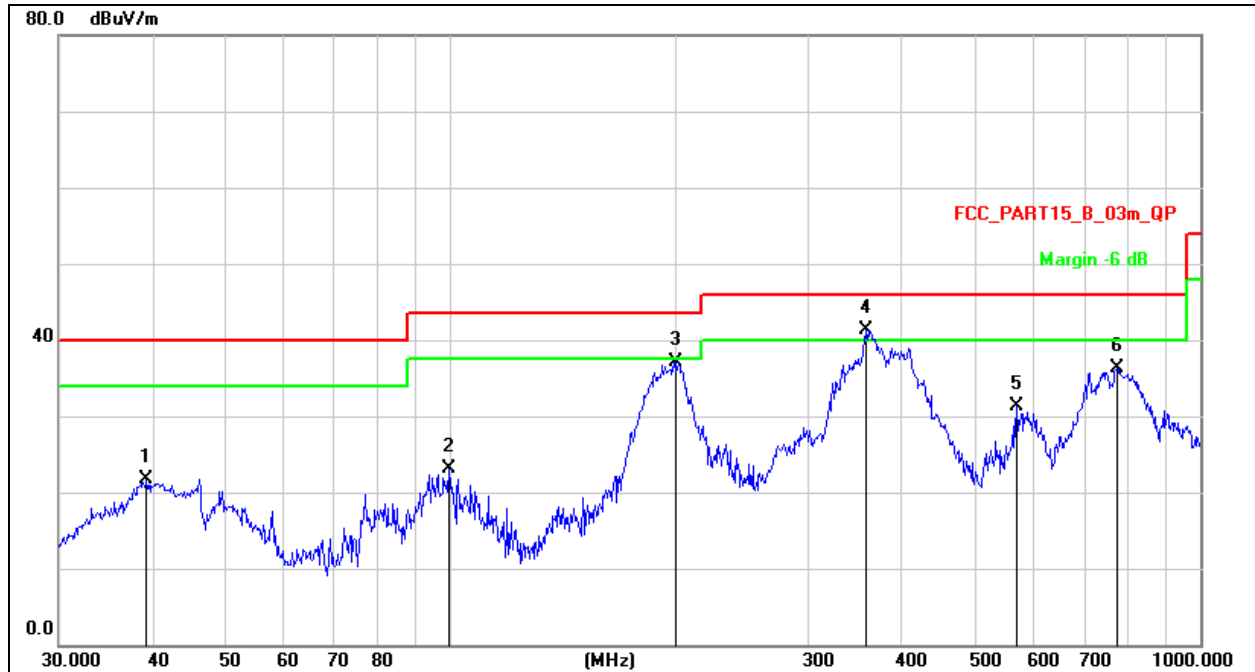
Temperature:	26°C	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 9 (Airpods:112kHz-148.5 kHz)	Polarization:	Coplanar



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.1277	84.29	-7.54	76.75	105.4	-28.73	peak
2		0.2566	73.08	-7.74	65.34	99.42	-34.08	peak
3		0.1590	65.34	-7.62	57.72	103.5	-45.86	peak
4		0.3849	60.99	-7.65	53.34	95.90	-42.56	peak
5	*	0.6364	55.19	-7.43	47.76	71.54	-23.78	peak
6		0.3246	58.00	-7.69	50.31	97.38	-47.07	peak

Between 30MHz – 1GHz

Temperature:	23.9℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz

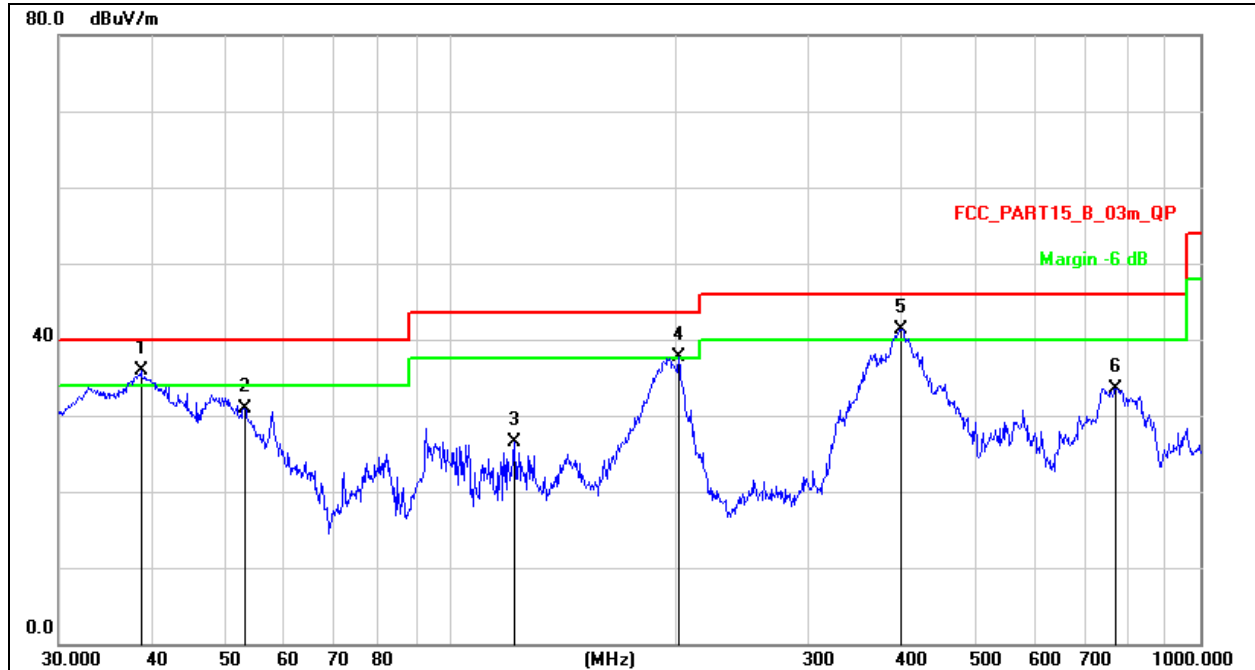


Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		39.2991	35.93	-14.13	21.80	40.00	-18.20	QP
2		99.5279	37.82	-14.73	23.09	43.50	-20.41	QP
3		199.9856	51.57	-14.40	37.17	43.50	-6.33	QP
4	*	357.9286	51.76	-10.49	41.27	46.00	-4.73	QP
5		568.6127	37.35	-6.03	31.32	46.00	-14.68	QP
6		774.1584	39.56	-3.19	36.37	46.00	-9.63	QP

Temperature:	23.9℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2(Worst)	Test Voltage:	AC 120V/60Hz



Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	38.6160	50.06	-14.21	35.85	40.00	-4.15	QP
2		53.1313	44.31	-13.46	30.85	40.00	-9.15	QP
3		121.5486	42.53	-15.99	26.54	43.50	-16.96	QP
4	!	201.3930	52.16	-14.37	37.79	43.50	-5.71	QP
5	!	399.0302	50.79	-9.43	41.36	46.00	-4.64	QP
6		771.4486	36.84	-3.26	33.58	46.00	-12.42	QP

8. Bandwidth Test

8.1 Test Procedure

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.

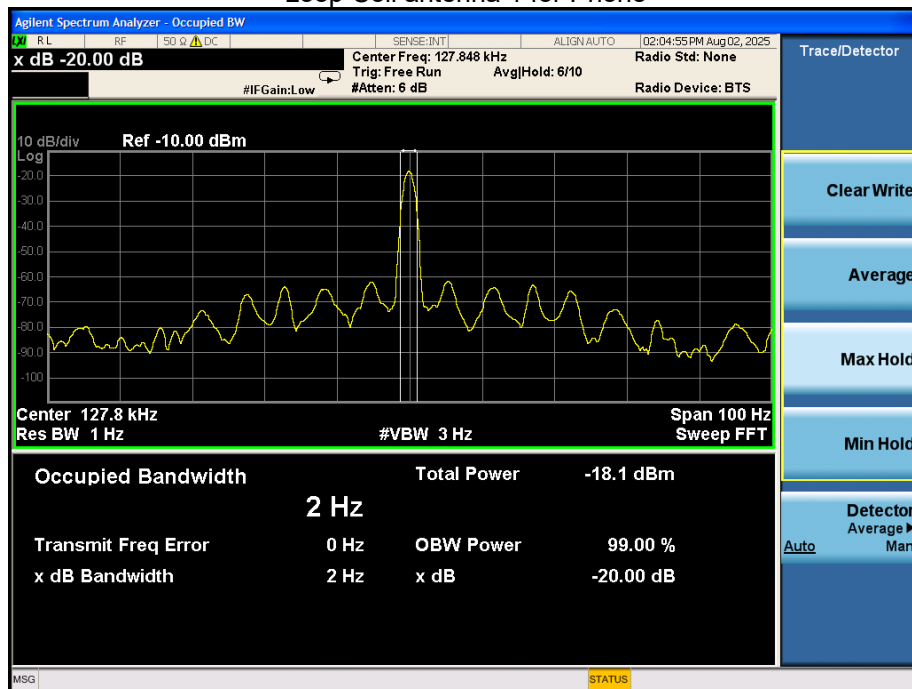
8.2 Test Setup



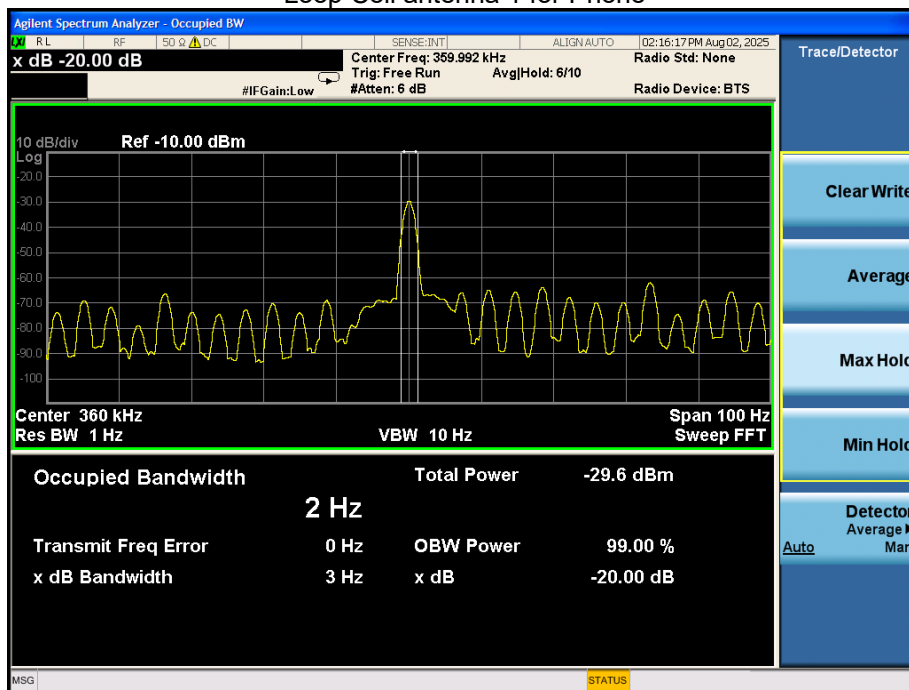
8.3 Test Result

Test mode configuration	Frequency (kHz)	20dB bandwidth (kHz)	Result
Loop Coil antenna 1 for Phone	112-148.5	0.002	Pass
Loop Coil antenna 1 for Phone	360	0.003	Pass
Loop Coil antenna 2 for watch	326.5	0.004	Pass
Loop Coil antenna 2 for watch	1778	0.003	Pass
Loop Coil antenna 3 for AirPods	112-148.5	0.024	Pass

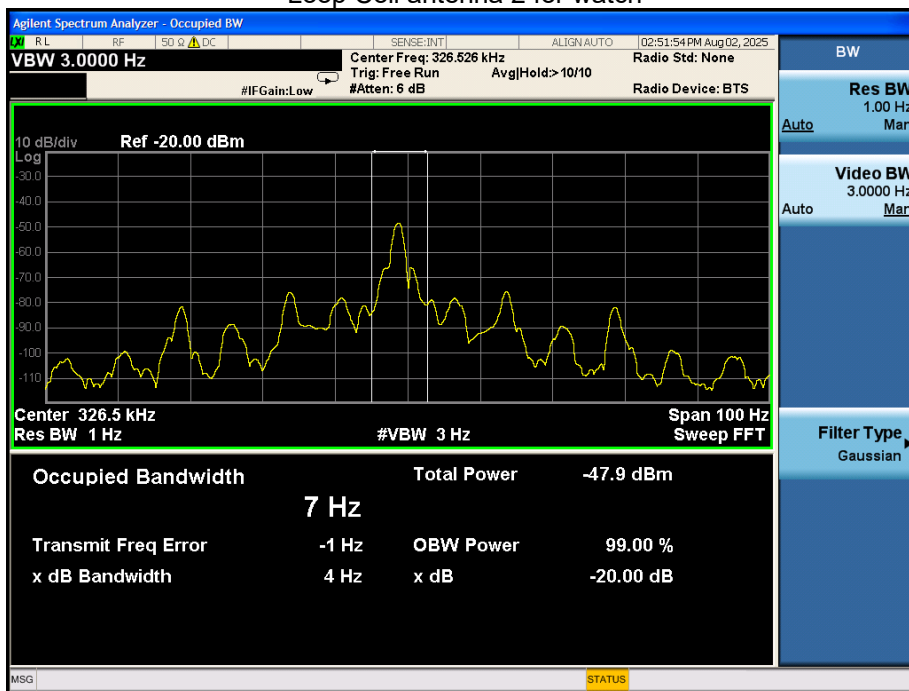
Loop Coil antenna 1 for Phone



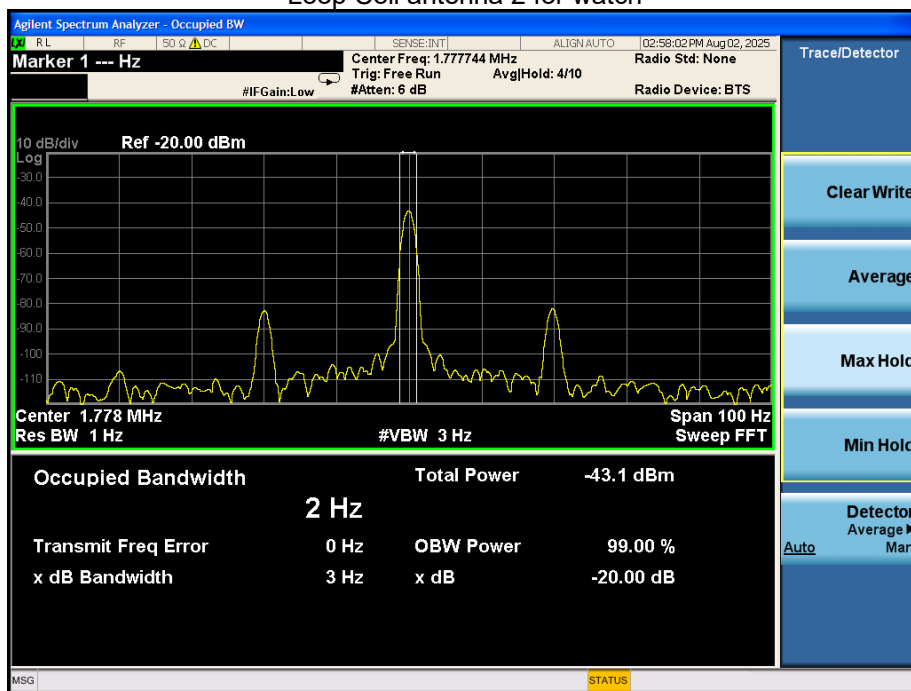
Loop Coil antenna 1 for Phone



Loop Coil antenna 2 for watch



Loop Coil antenna 2 for watch



Loop Coil antenna 3 for AirPods



Note: 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 1Hz and VBW is set to 3Hz to perform the occupied bandwidth test.

9. Antenna Requirements

9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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 shall be considered sufficient to comply with the provisions of this section. 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.

9.2 Test Result

The antenna used for this product is loop coil antenna.

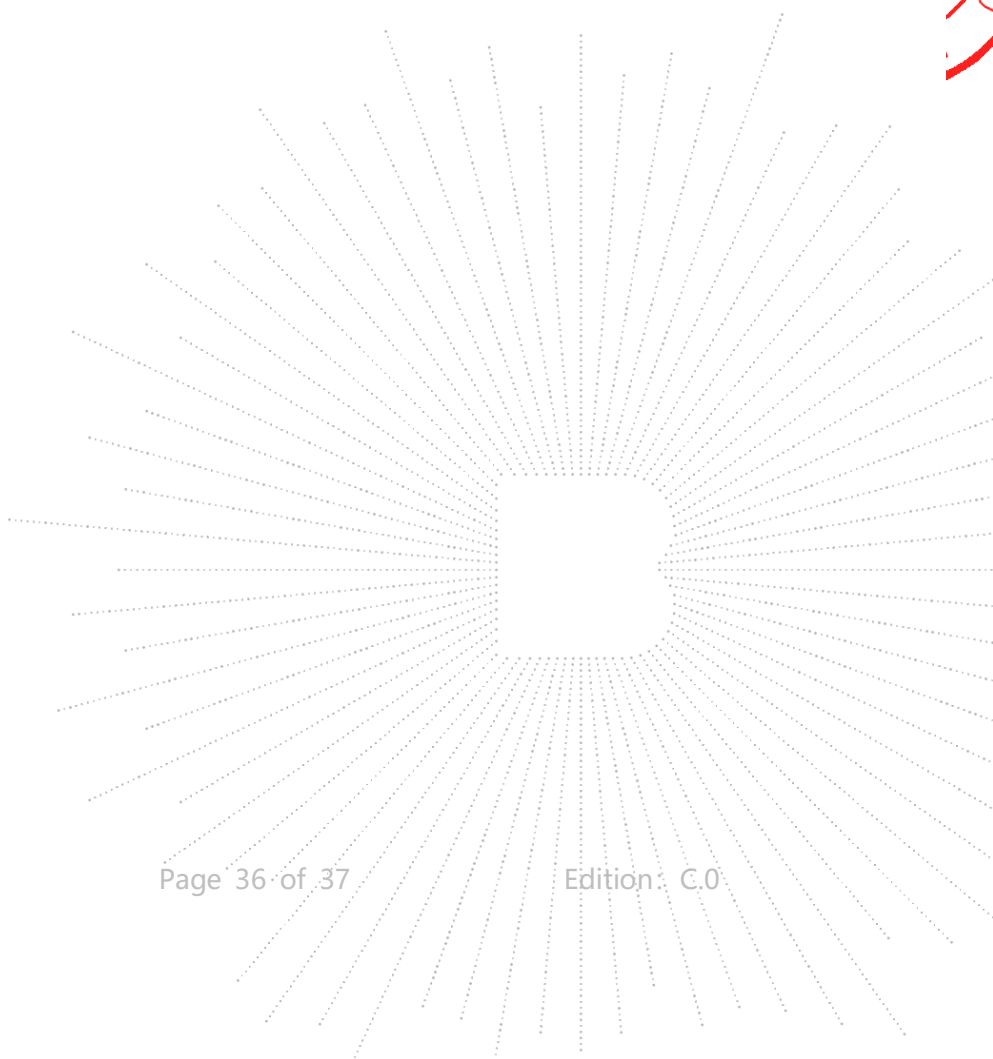
10. EUT Photographs

NOTE: Appendix-Photographs Of EUT Constructional Details

TEST
TC
OVER
seal

11. EUT Test Setup Photographs

NOTE: Appendix-Test Photos



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****