

TEST REPORT

Report No.: BCTC2406483262-1E

Applicant: Shenzhen Nito Power Source Technology Co., Ltd.

Product Name: Portable Wireless Watch Charger

Test Model: JR-W09

Tested Date: 2024-06-04 to 2024-06-21

Issued Date: 2024-06-21


Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BA8X-JR-W09

Product Name: Portable Wireless Watch Charger
Trademark: JOYROOM
Model/Type reference: JR-W09
Prepared For: Shenzhen Nito Power Source Technology Co., Ltd.
Address: 201-7, Building 2, Shihua Lixing Fengda Industrial Factory, No. 49 Wuhe Avenue South, Wuhe Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer: Shenzhen Nito Power Source Technology Co., Ltd.
Address: 201-7, Building 2, Shihua Lixing Fengda Industrial Factory, No. 49 Wuhe Avenue South, Wuhe Community, Bantian Street, Longgang District, 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: 2024-06-04
Sample tested Date: 2024-06-04 to 2024-06-21
Issue Date: 2024-06-21
Report No.: BCTC2406483262-1E
Test Standards: FCC Part15.209
ANSI C63.10-2013
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



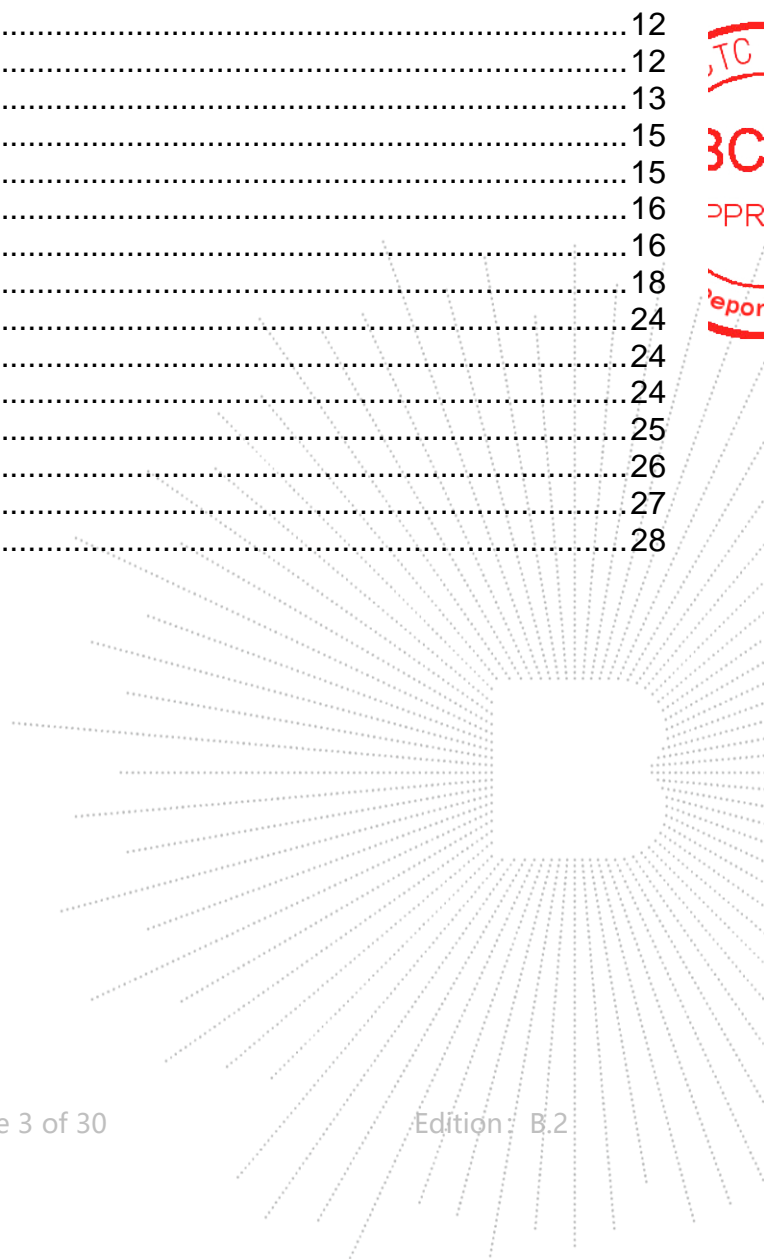
Zero Zhou/Reviewer

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(Note: N/A Means Not Applicable)

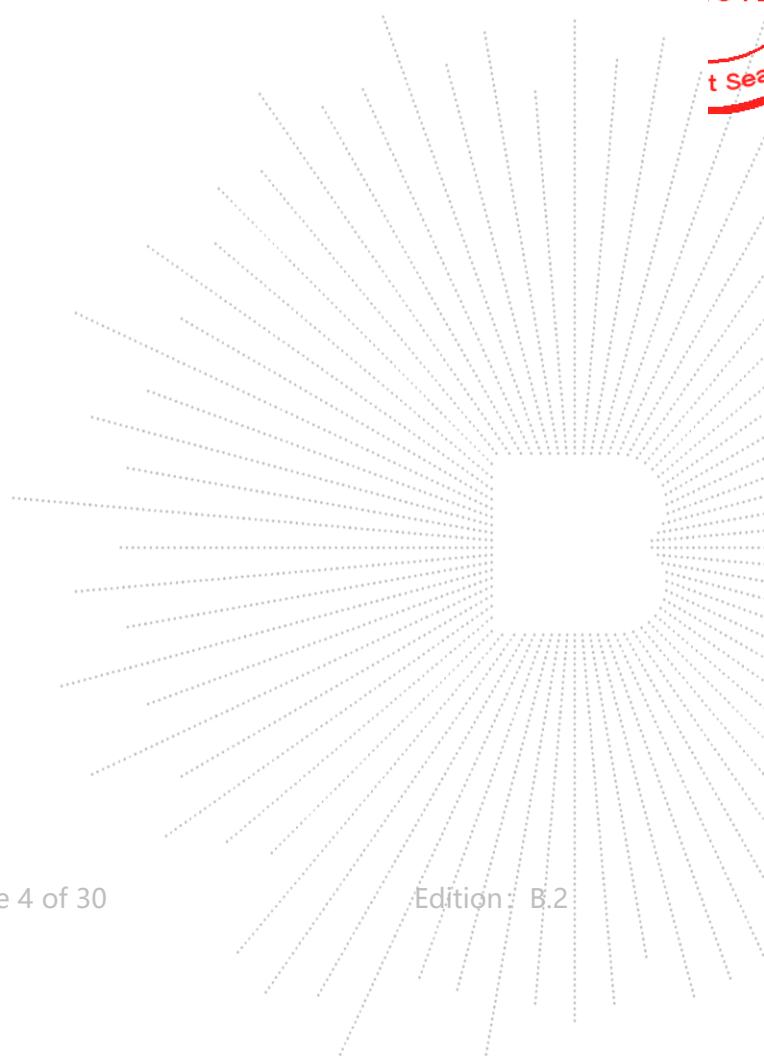


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1. Version

Report No.	Issue Date	Description	Approved
BCTC2406483262-1E	2024-06-21	Original	Valid

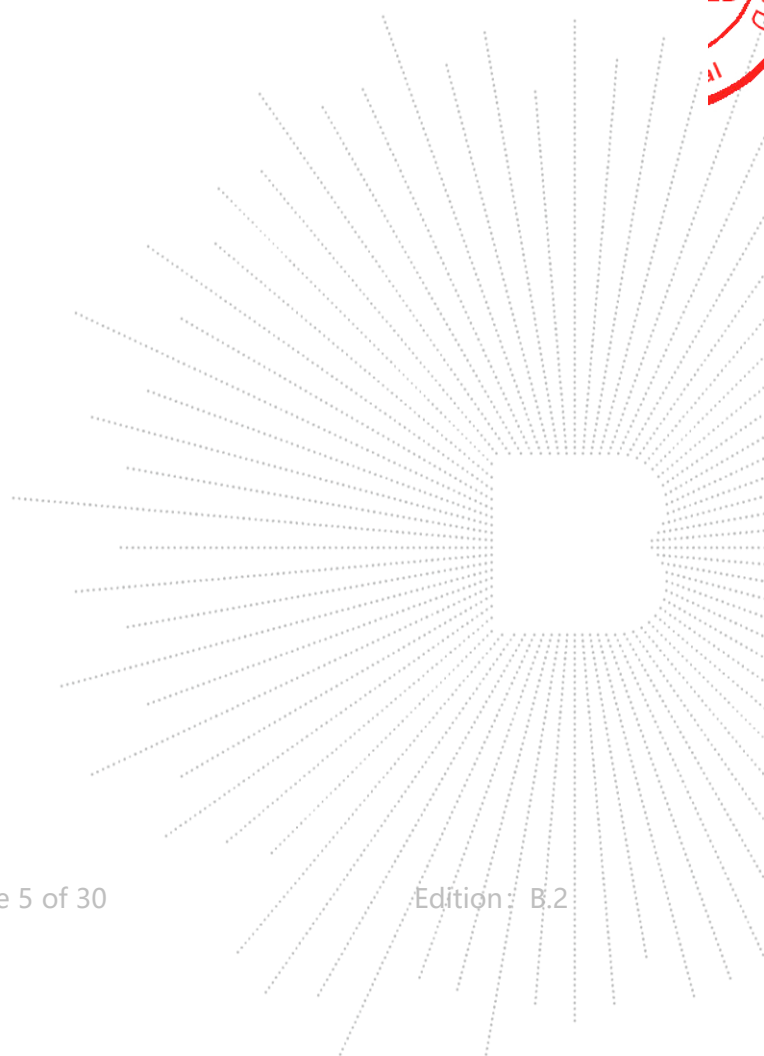
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2. Test Summary

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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C


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4. Product Information And Test Setup

4.1 Product Information

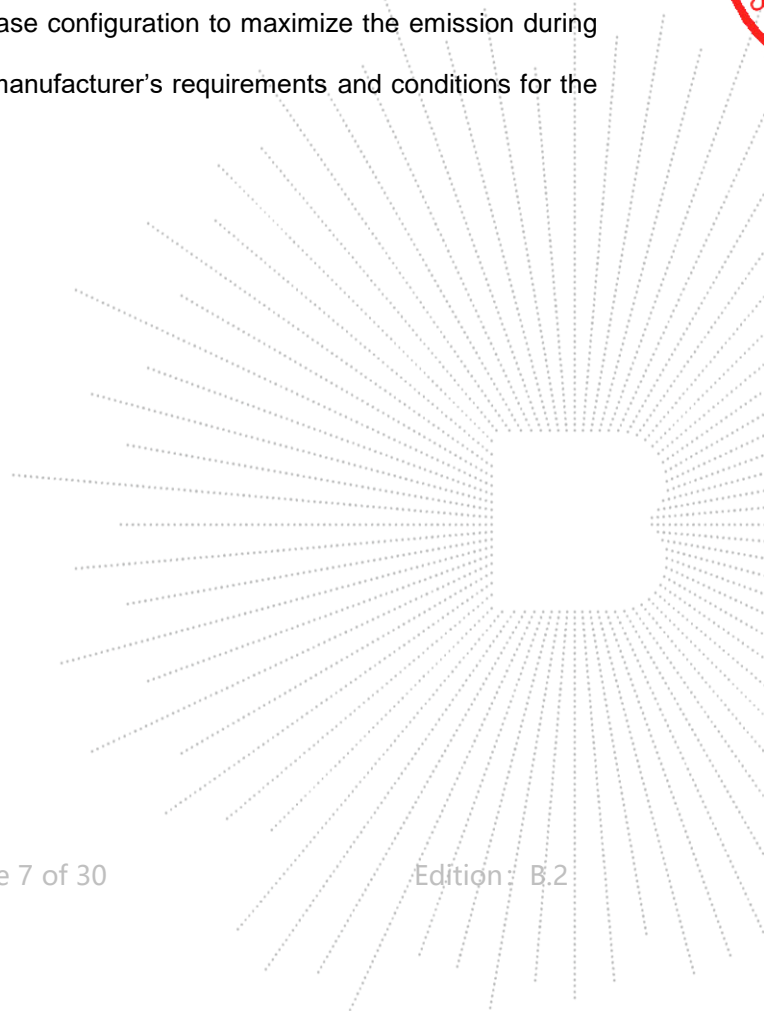
Model/Type Reference:	JR-W09
Model Differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	300kHz-350kHz
Modulation:	ASK
Antenna installation:	Coil antenna
	USB-C Input: DC 5V 1A
	Type-C Input: DC 5V 1A
Ratings:	Type-C Output: DC 5V 1A
	Wireless charging Output: 3W
	Battery: DC 3.7V

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Portable Wireless Watch Charger	N/A	JR-W09	N/A	EUT
E-2	Adapter	---	CD122	---	Auxiliary
E-3	Dummy load	N/A	DL02	N/A	Auxiliary

Notes:

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

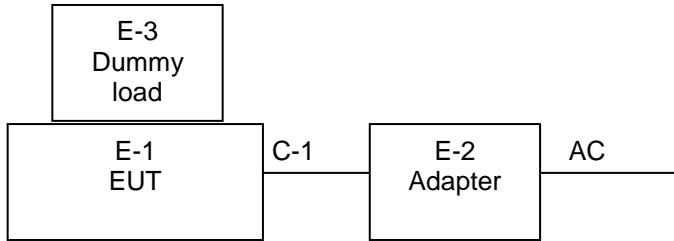


4.3 Test Setup Configuration

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

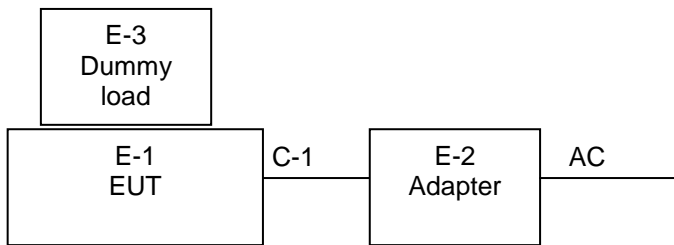
Conducted Emission:

Mobile:

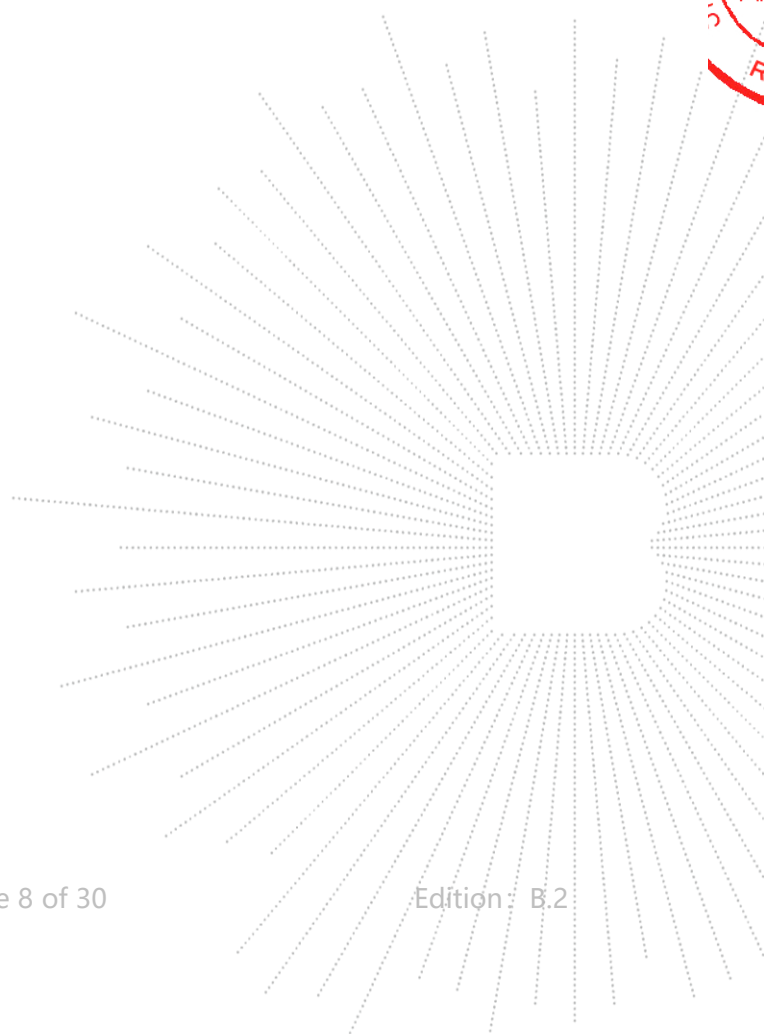
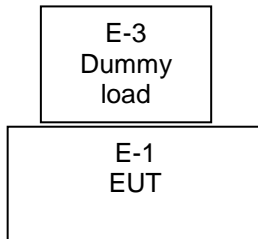


Radiated Spurious Emission:

Mobile:



Portable:



4.4 Test Mode

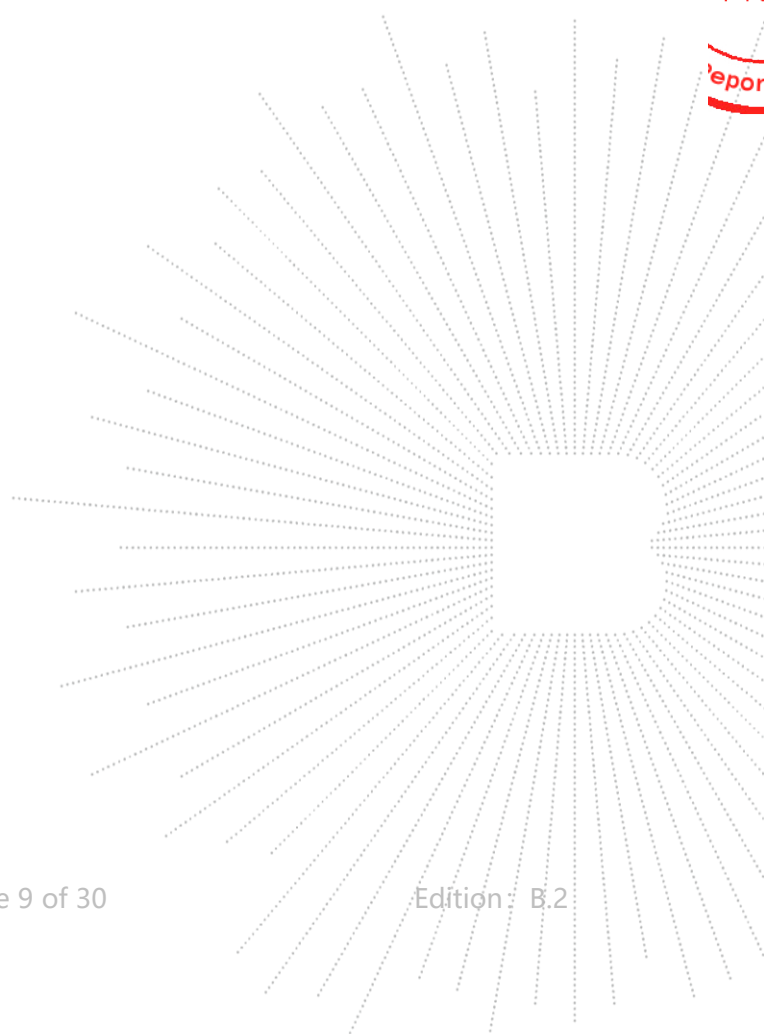
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Mobile	Mode 1	Charging (USB-C)+ Wireless charging (Full load)
	Mode 2	Charging (USB-C)+ Wireless charging (Half load)
	Mode 3	Charging (USB-C)+ Wireless charging (Empty load)
	Mode 4	Charging (Type-C)+ Wireless charging (Full load)
	Mode 5	Charging (Type-C)+ Wireless charging (Half load)
	Mode 6	Charging (Type-C)+ Wireless charging (Empty load)
Portable	Mode 7	Wireless charging (Full load)
	Mode 8	Wireless charging (Half load)
	Mode 9	Wireless charging (Empty load)

Note:

All test modes have been tested and passed, only the worst mode full load mode is shown in the report.

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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.

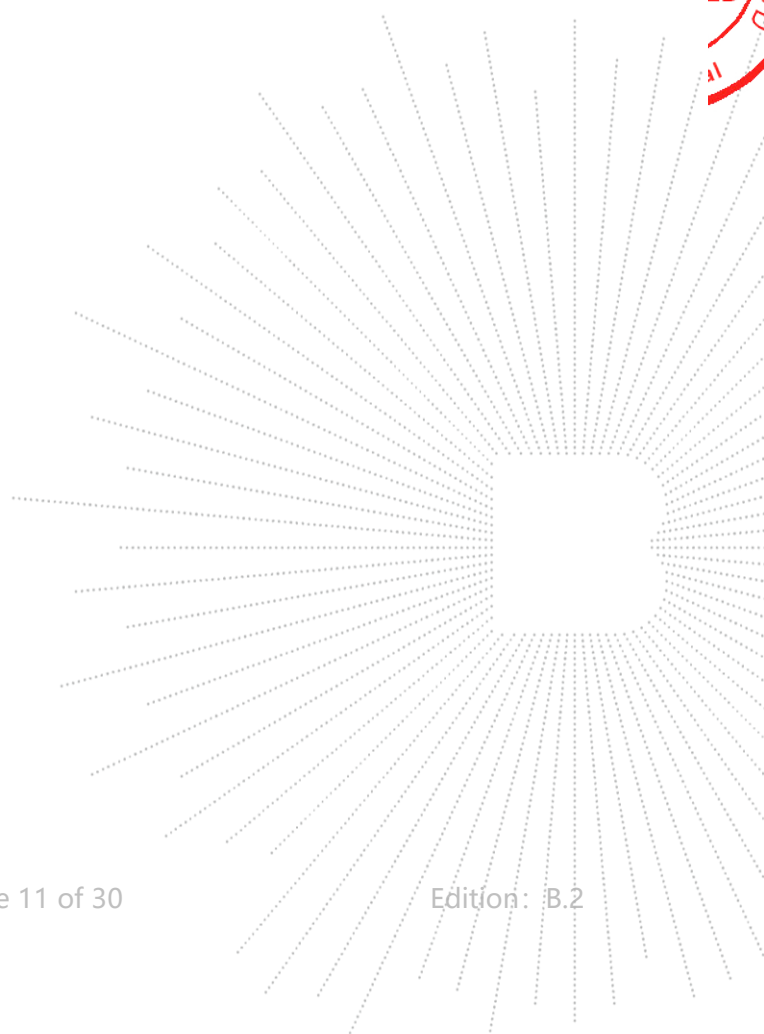
FCC Test Firm Registration Number: 712850
 A2LA certificate registration number is: CN1212
 ISED Registered No.: 23583
 ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

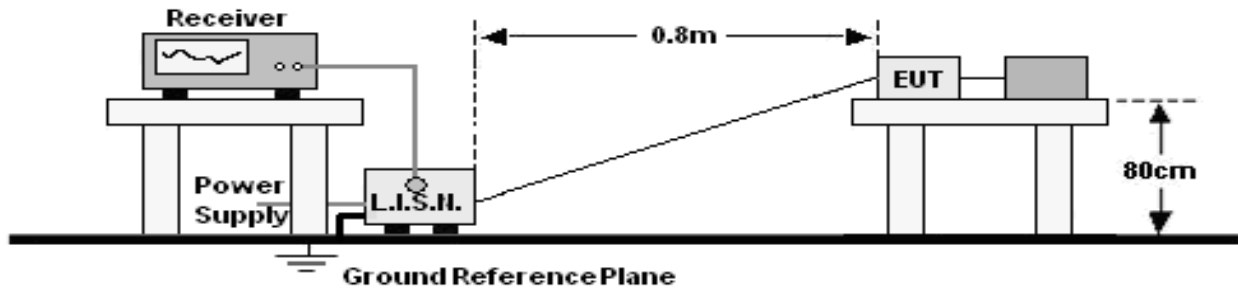
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



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:
 1. *Decreasing linearly with logarithm of frequency.
 2. 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.

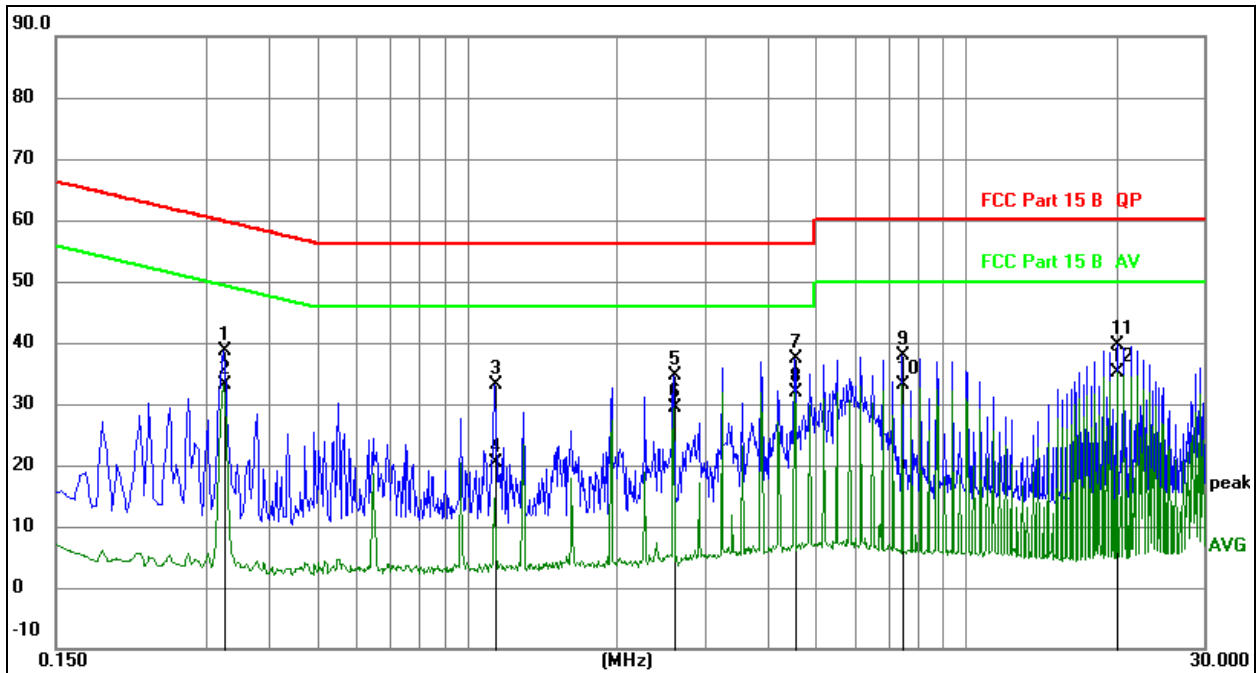
6.4 EUT Operating Conditions

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

Mobile:

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1(the worst mode)

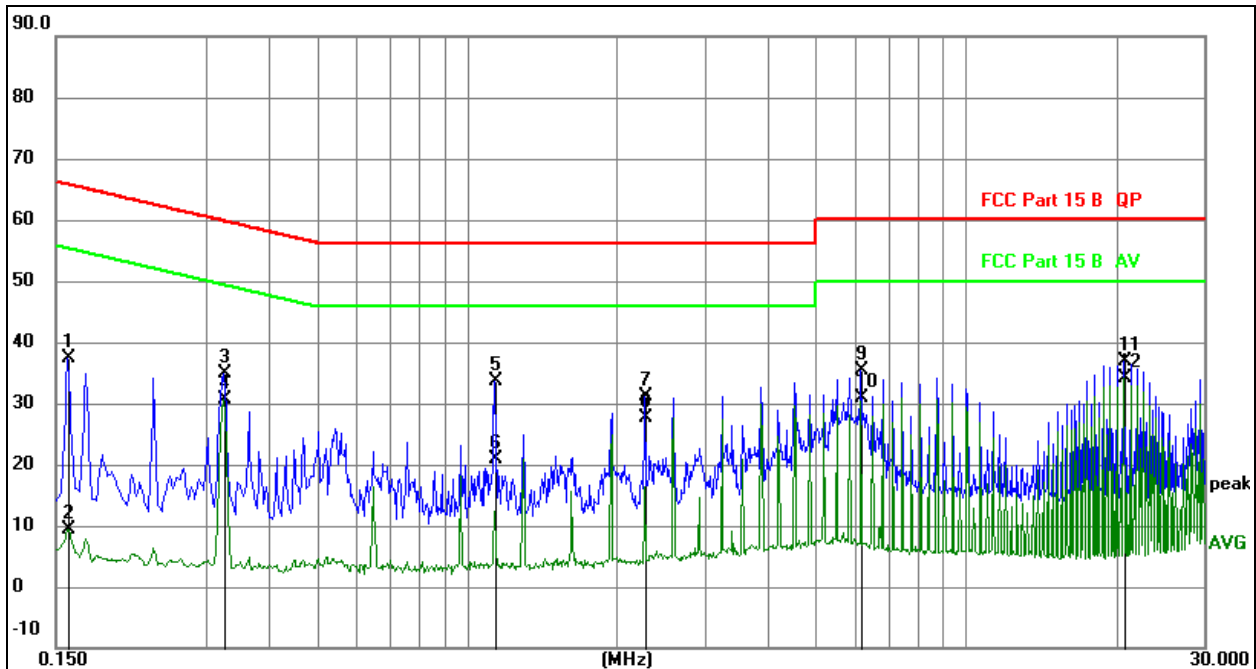

Remark:

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. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3255	18.91	19.83	38.74	59.57	-20.83	QP
2		0.3255	13.29	19.83	33.12	49.57	-16.45	AVG
3		1.1354	13.12	19.95	33.07	56.00	-22.93	QP
4		1.1354	0.46	19.95	20.41	46.00	-25.59	AVG
5		2.5980	14.40	20.16	34.56	56.00	-21.44	QP
6		2.5980	9.15	20.16	29.31	46.00	-16.69	AVG
7		4.5465	16.95	20.53	37.48	56.00	-18.52	QP
8	*	4.5465	11.43	20.53	31.96	46.00	-14.04	AVG
9		7.4715	17.96	19.95	37.91	60.00	-22.09	QP
10		7.4715	13.30	19.95	33.25	50.00	-16.75	AVG
11		20.1435	19.52	19.99	39.51	60.00	-20.49	QP
12		20.1435	15.22	19.99	35.21	50.00	-14.79	AVG

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Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1(the worst mode)


Remark:

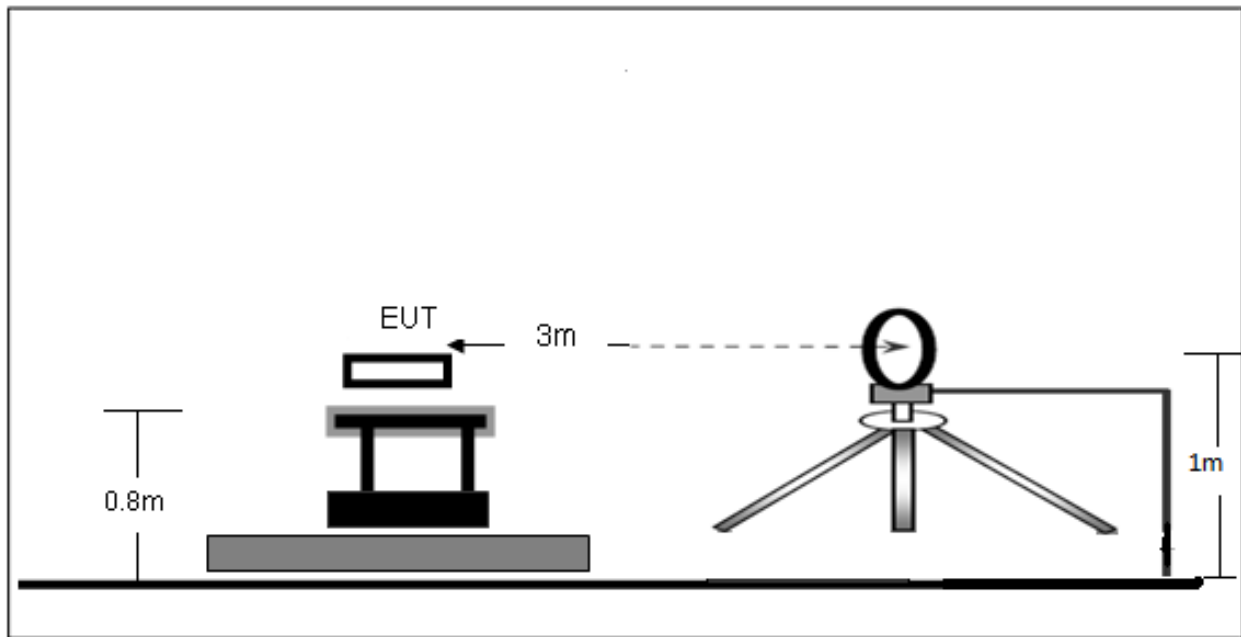
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1590	17.52	19.75	37.27	65.52	-28.25	QP
2		0.1590	-10.28	19.75	9.47	55.52	-46.05	AVG
3		0.3255	15.16	19.83	34.99	59.57	-24.58	QP
4		0.3255	10.89	19.83	30.72	49.57	-18.85	AVG
5		1.1354	13.68	19.95	33.63	56.00	-22.37	QP
6		1.1354	0.92	19.95	20.87	46.00	-25.13	AVG
7		2.2739	11.05	20.05	31.10	56.00	-24.90	QP
8		2.2739	7.46	20.05	27.51	46.00	-18.49	AVG
9		6.1710	15.26	20.15	35.41	60.00	-24.59	QP
10		6.1710	10.78	20.15	30.93	50.00	-19.07	AVG
11		20.7915	16.92	19.99	36.91	60.00	-23.09	QP
12	*	20.7915	14.16	19.99	34.15	50.00	-15.85	AVG

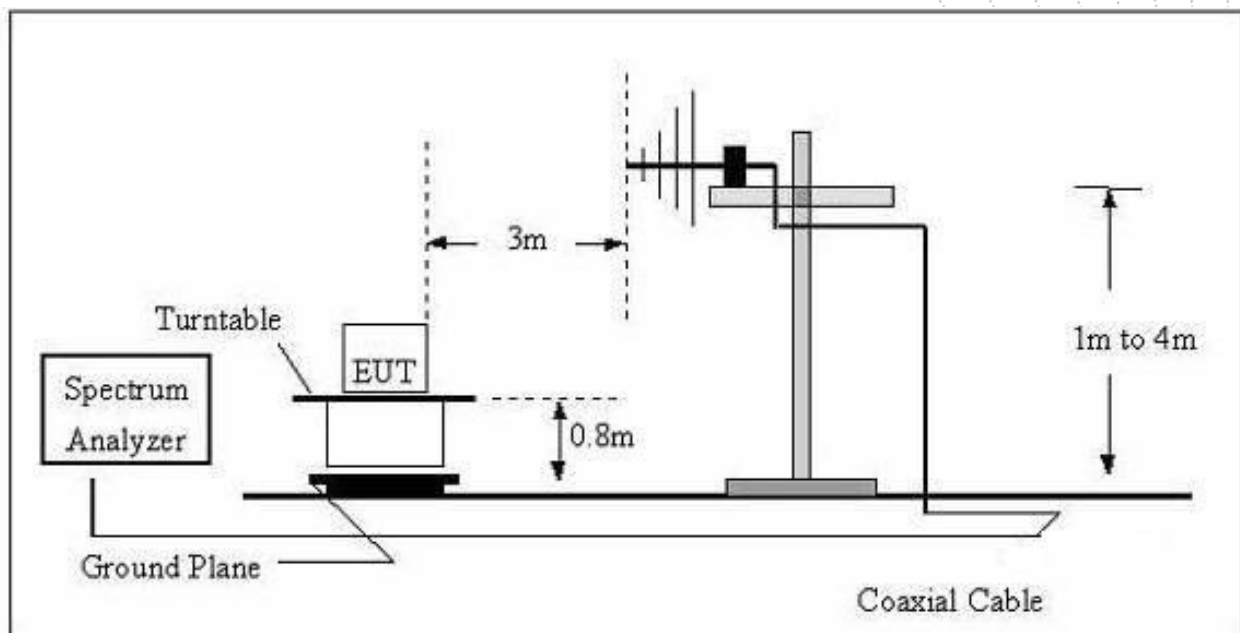
7. Radiated Emissions

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.

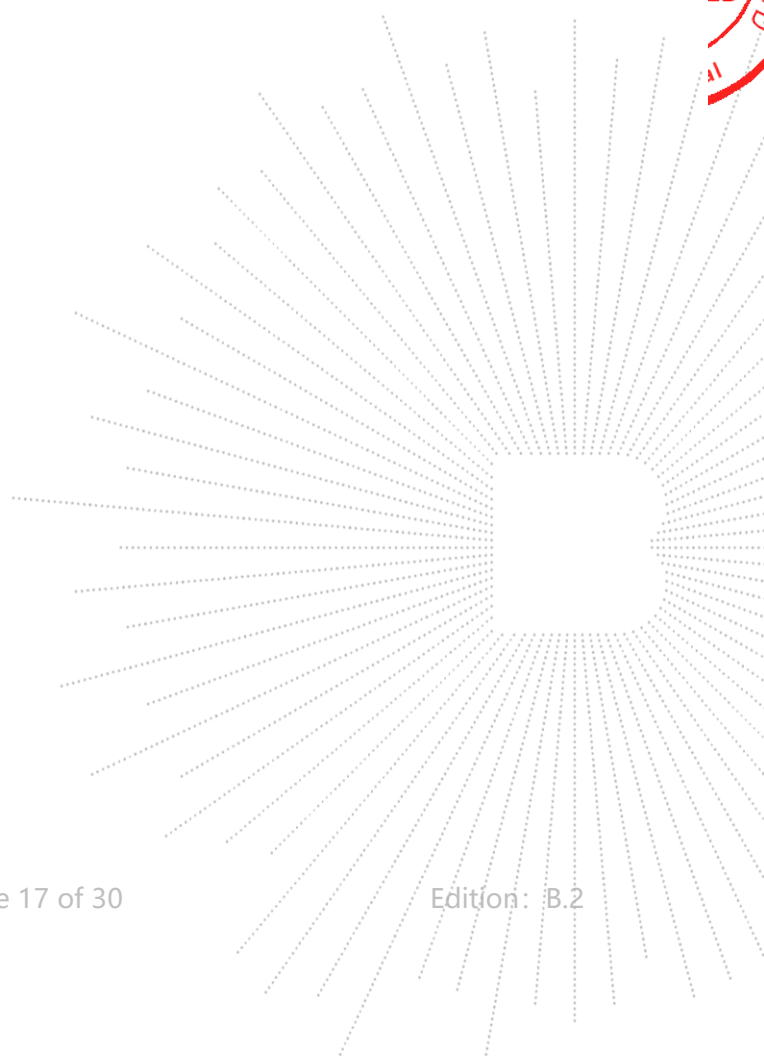
Above 1GHz test procedure as below:

g. 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).

h. 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.

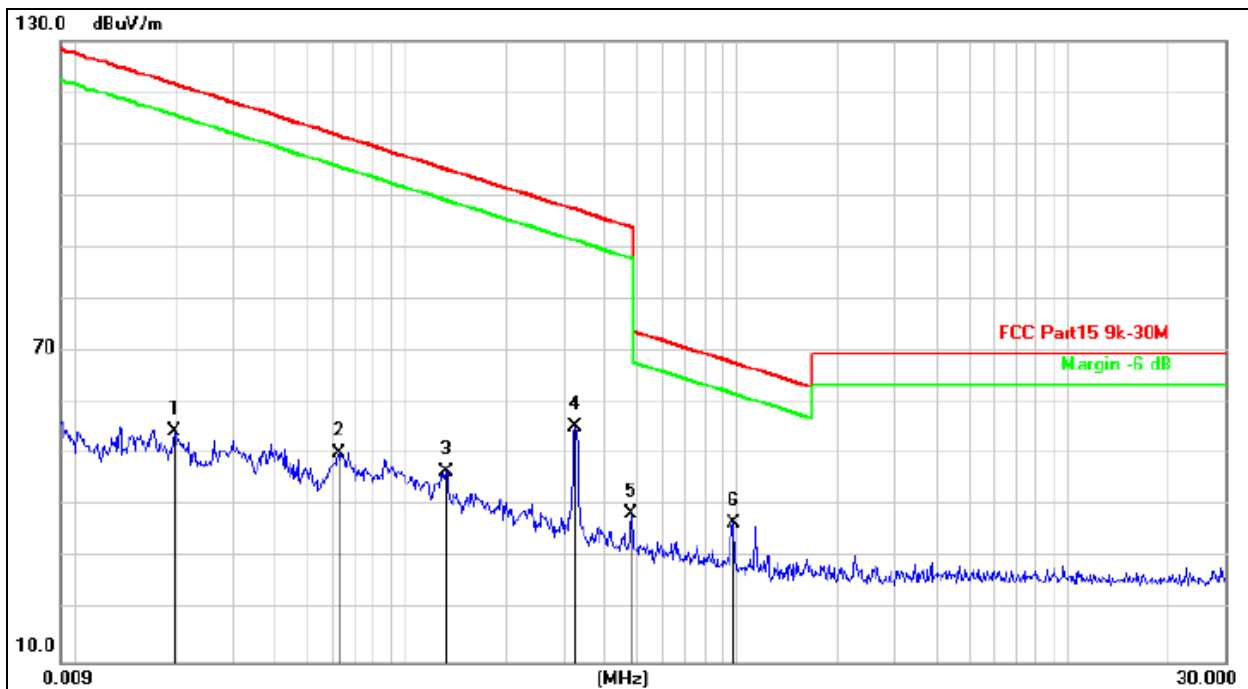


7.4 Test Result

Between 9kHz – 30MHz

Mobile:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1 (the worst mode)	Polarization :	Coaxial

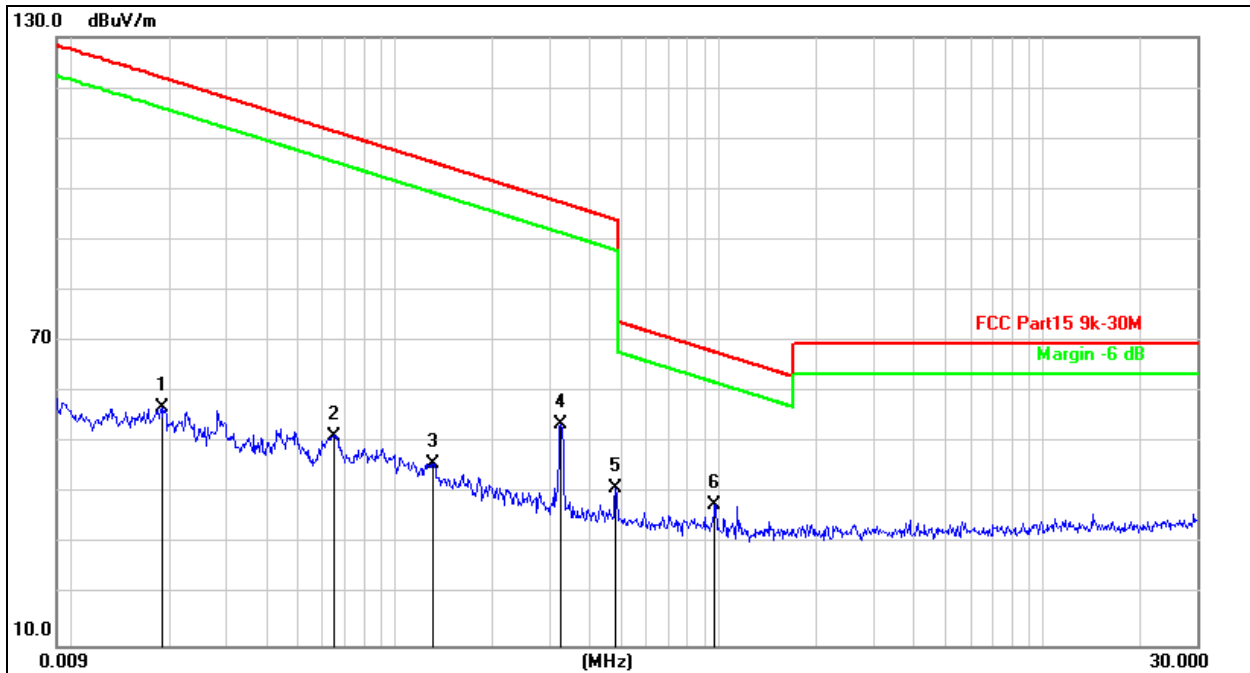

Remark:

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

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	0.0199	61.99	-7.49	54.50	121.6	-67.13	peak
2	0.0625	57.75	-7.54	50.21	111.6	-61.48	peak
3	0.1318	54.44	-7.55	46.89	105.2	-58.32	peak
4	0.3245	63.06	-7.69	55.37	97.38	-42.01	peak
5	0.4791	46.30	-7.58	38.72	94.00	-55.28	peak
6 *	0.9782	44.14	-7.36	36.78	67.81	-31.03	peak

Portable:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 7 (the worst mode)	Polarization :	Coaxial


Remark:

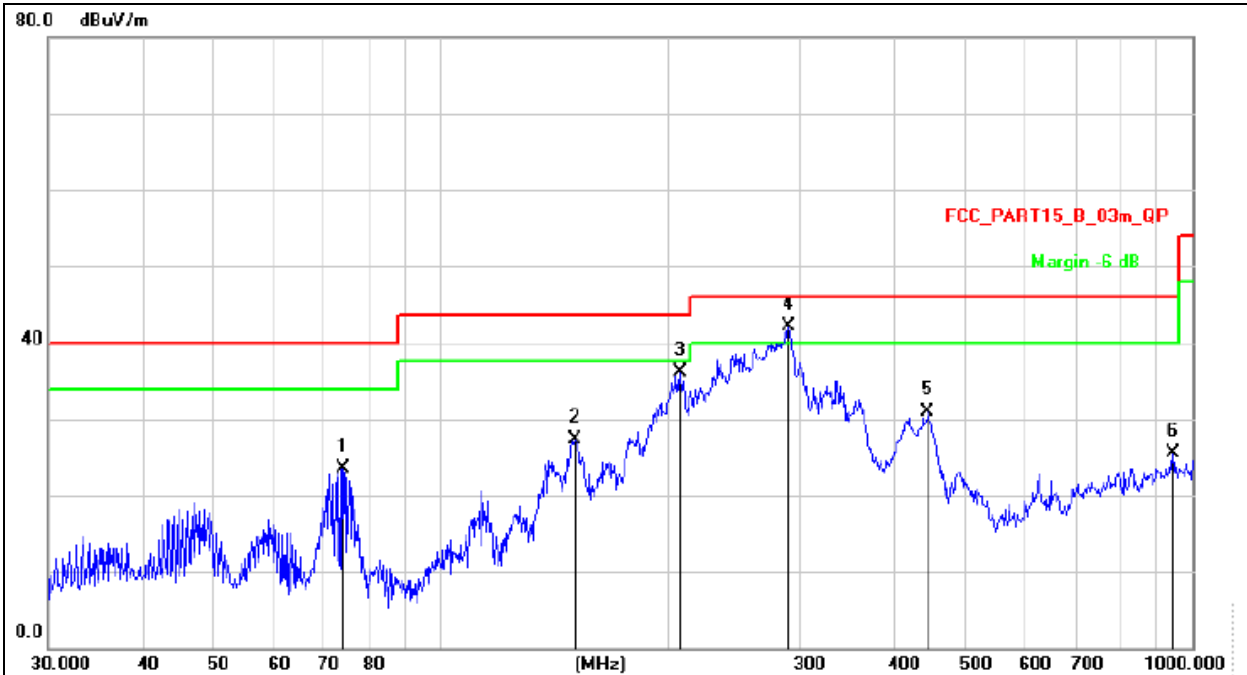
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.0190	64.37	-7.49	56.88	122.0	-65.15	peak
2		0.0646	58.98	-7.58	51.40	111.4	-60.00	peak
3		0.1307	53.35	-7.55	45.80	105.2	-59.48	peak
4		0.3246	61.35	-7.69	53.66	97.38	-43.72	peak
5		0.4791	48.75	-7.58	41.17	94.00	-52.83	peak
6	*	0.9704	45.14	-7.36	37.78	67.88	-30.10	peak

Between 30MHz – 1GHz

Mobile:

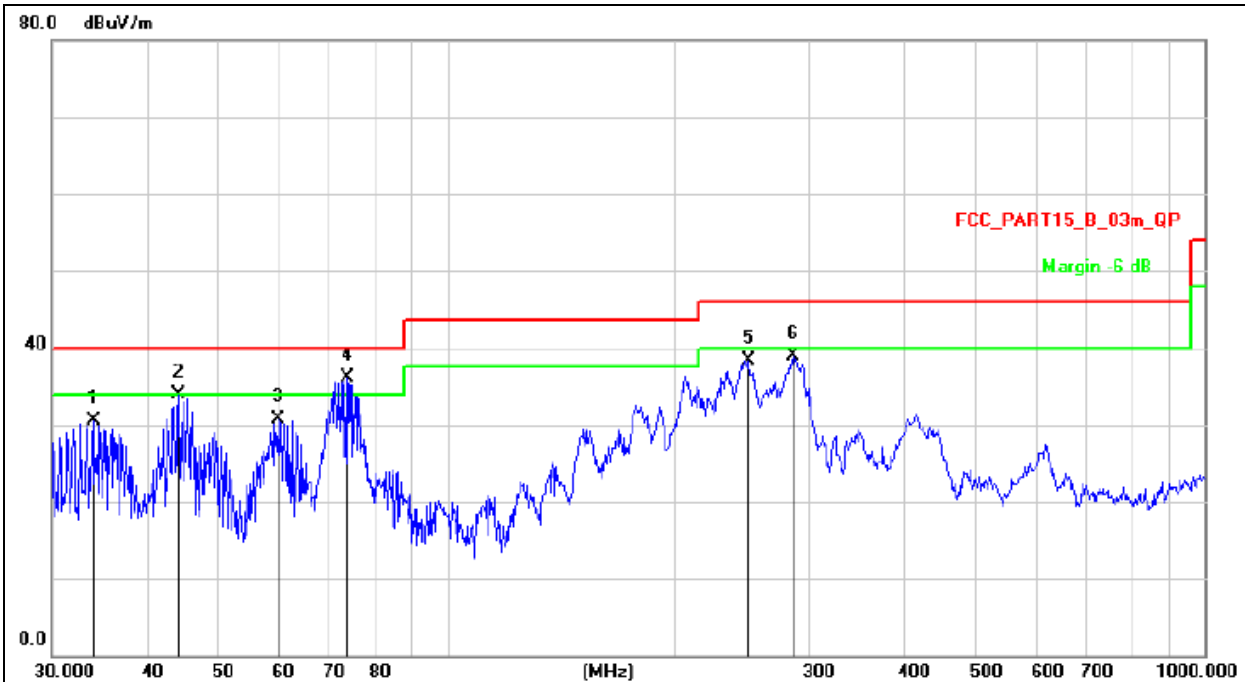
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1(the worst mode)	Polarization :	Horizontal


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		74.1350	42.15	-18.72	23.43	40.00	-16.57	QP
2		151.0664	46.66	-19.35	27.31	43.50	-16.19	QP
3		207.8499	51.60	-15.50	36.10	43.50	-7.40	QP
4	*	290.0172	55.50	-13.45	42.05	46.00	-3.95	QP
5		444.8514	40.77	-9.96	30.81	46.00	-15.19	QP
6		942.1304	28.50	-2.97	25.53	46.00	-20.47	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1(the worst mode)	Polarization :	Vertical

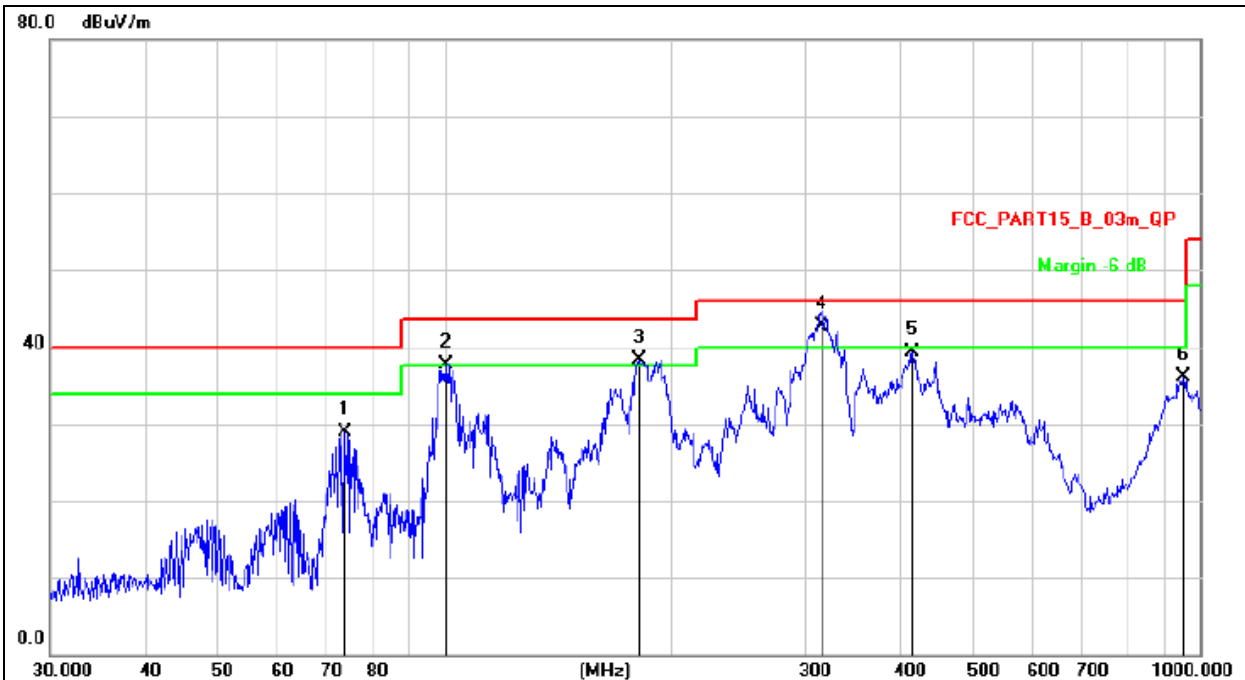

Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		34.0363	46.33	-15.87	30.46	40.00	-9.54	QP
2		44.1200	48.37	-14.38	33.99	40.00	-6.01	QP
3		59.6492	45.86	-15.20	30.66	40.00	-9.34	QP
4	*	73.6170	54.76	-18.63	36.13	40.00	-3.87	QP
5		249.4250	52.59	-14.31	38.28	46.00	-7.72	QP
6		285.9778	52.36	-13.53	38.83	46.00	-7.17	QP

Portable:

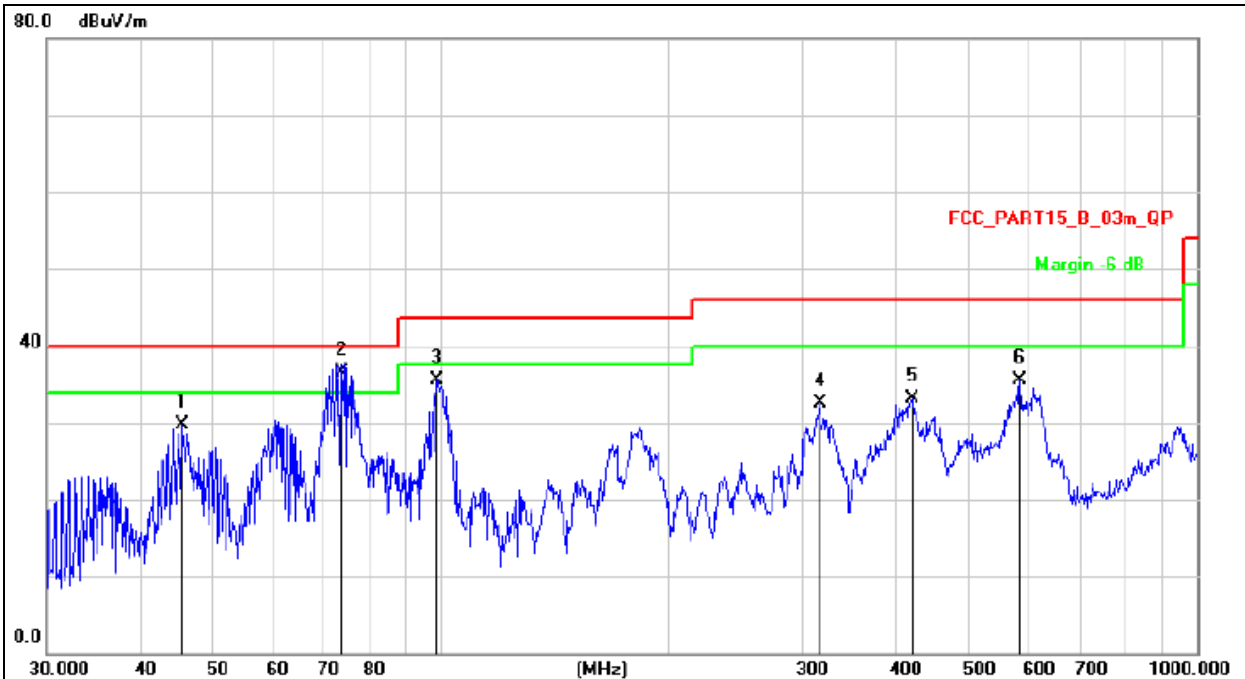
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 7 (the worst mode)	Polarization :	Horizontal


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		73.6170	47.44	-18.63	28.81	40.00	-11.19	QP
2	!	100.2286	53.67	-15.95	37.72	43.50	-5.78	QP
3	!	180.6487	55.51	-17.16	38.35	43.50	-5.15	QP
4	*	315.4808	55.38	-12.70	42.68	46.00	-3.32	QP
5		416.1791	49.76	-10.52	39.24	46.00	-6.76	QP
6		952.0937	39.00	-2.92	36.08	46.00	-9.92	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	A DC 3.7V
Test Mode :	Mode 7 (the worst mode)	Polarization :	Vertical


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		45.3755	44.02	-14.28	29.74	40.00	-10.26	QP
2	*	73.6170	55.10	-18.63	36.47	40.00	-3.53	QP
3		98.4865	51.73	-16.15	35.58	43.50	-7.92	QP
4		316.5889	45.23	-12.66	32.57	46.00	-13.43	QP
5		419.1080	43.53	-10.47	33.06	46.00	-12.94	QP
6		582.7424	43.65	-8.18	35.47	46.00	-10.53	QP

8. Bandwidth Test

8.1 Test Setup



8.2 Test Procedure

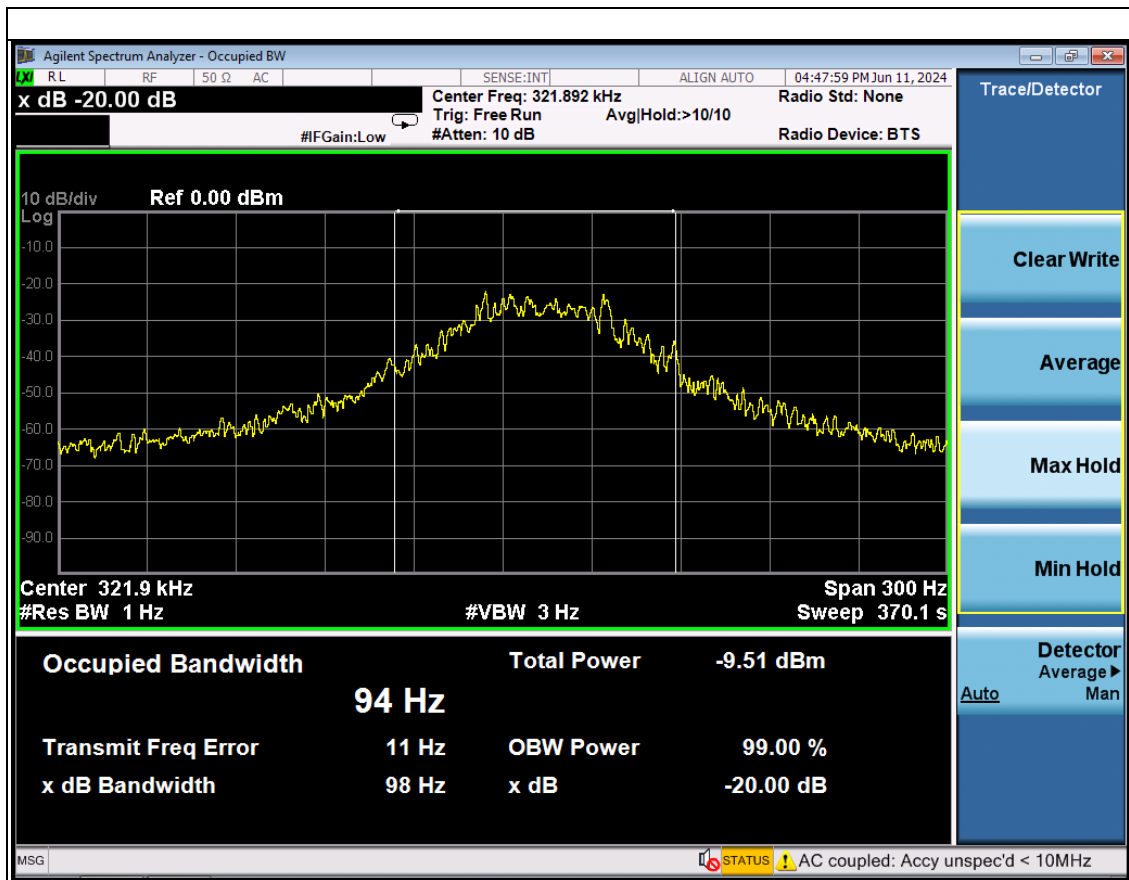
1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude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

CO., LTD

8.3 Test Result

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa		

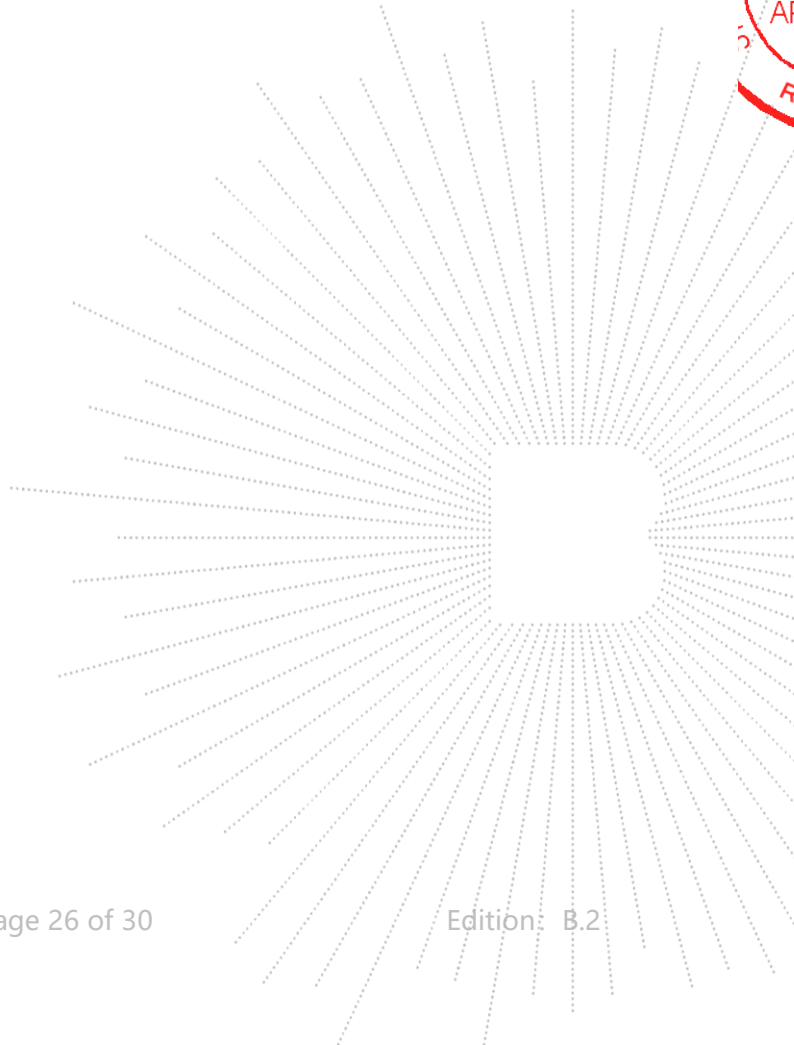
Frequency (KHz)	20dB bandwidth (Hz)	Result
321.9	98	Pass



9. Antenna Requirements

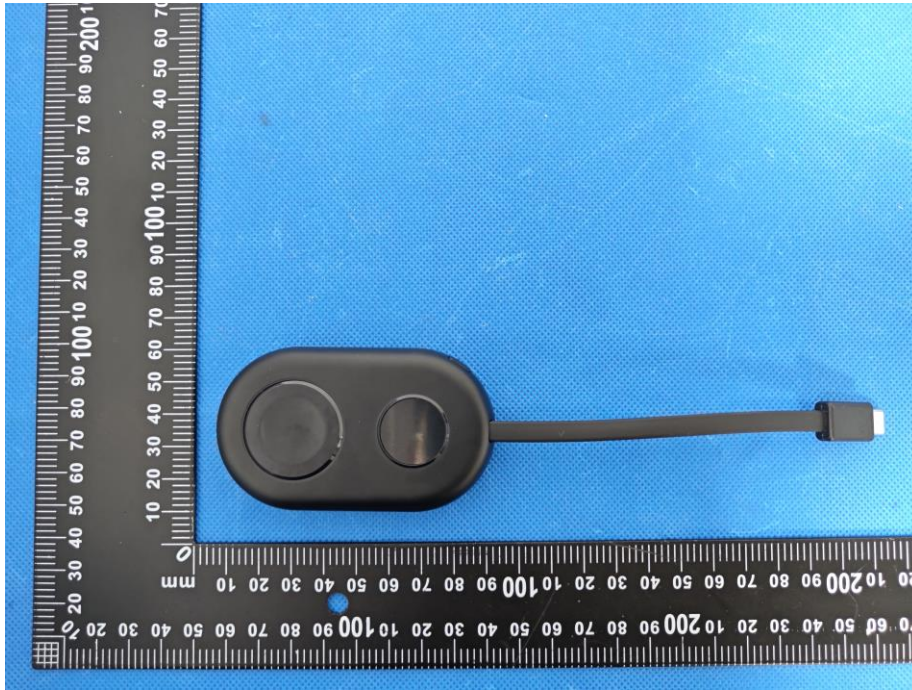
For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling 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.

The antenna used for this product is Inductive loop coil antenna.



10. EUT Photographs

EUT Photo 1

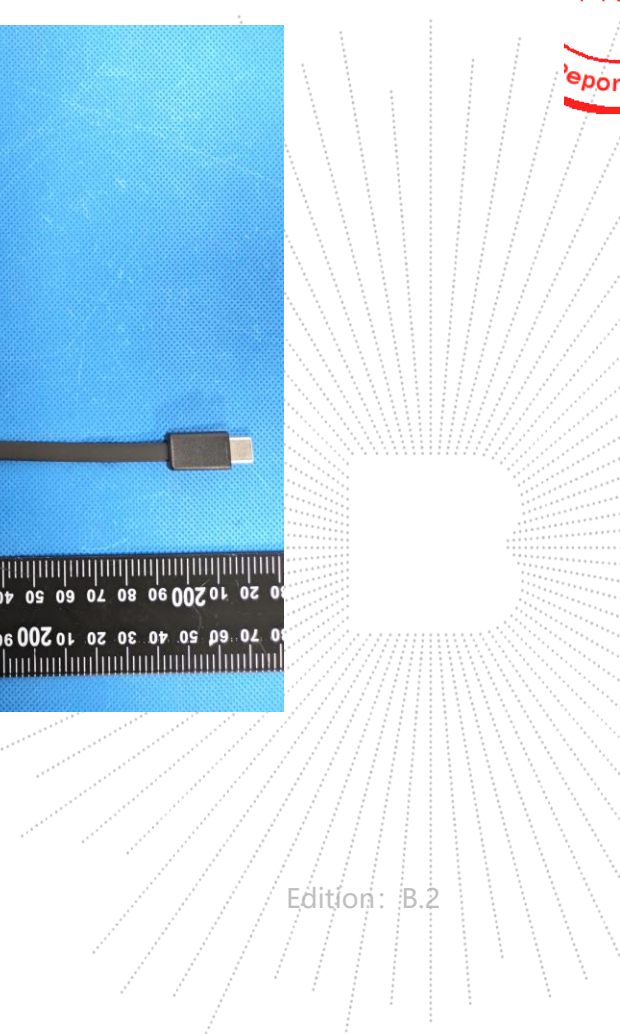


EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

BCTC
BCTC
PPR
Report

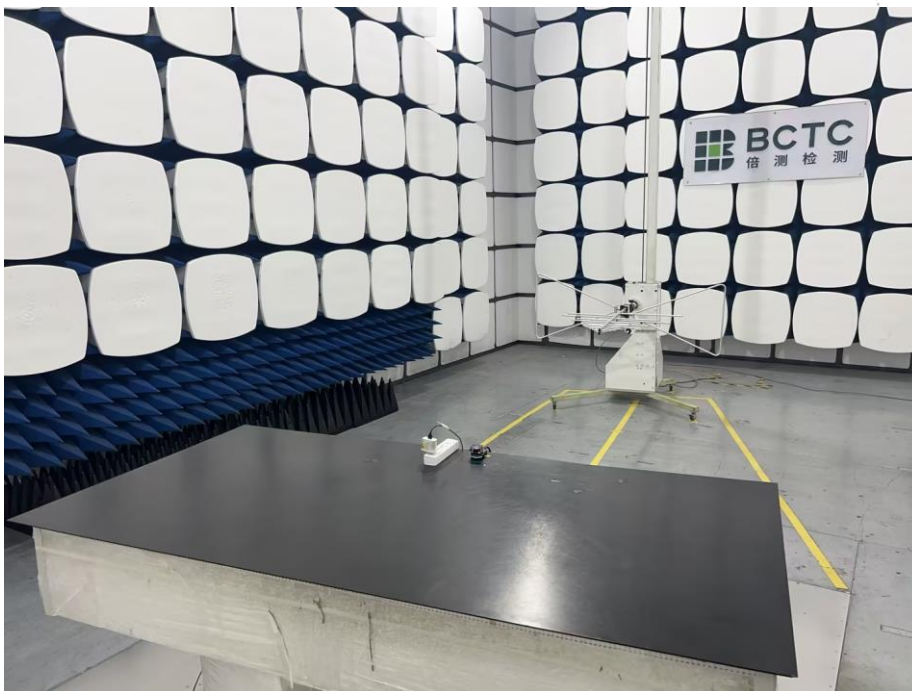


11. EUT Test Setup Photographs

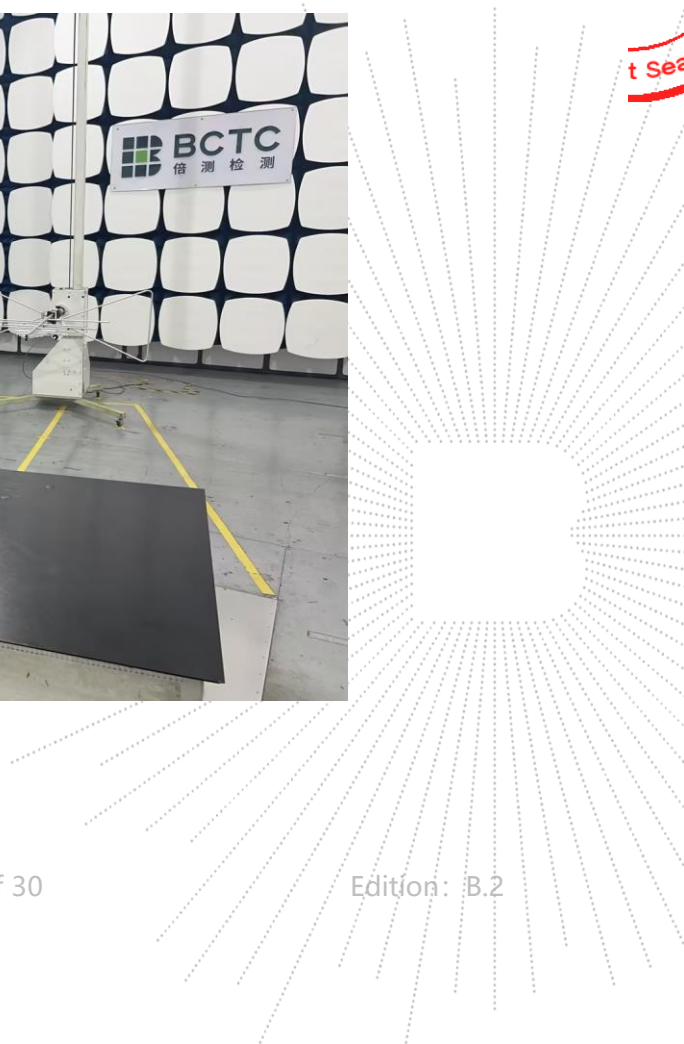
Conducted Emissions Photo

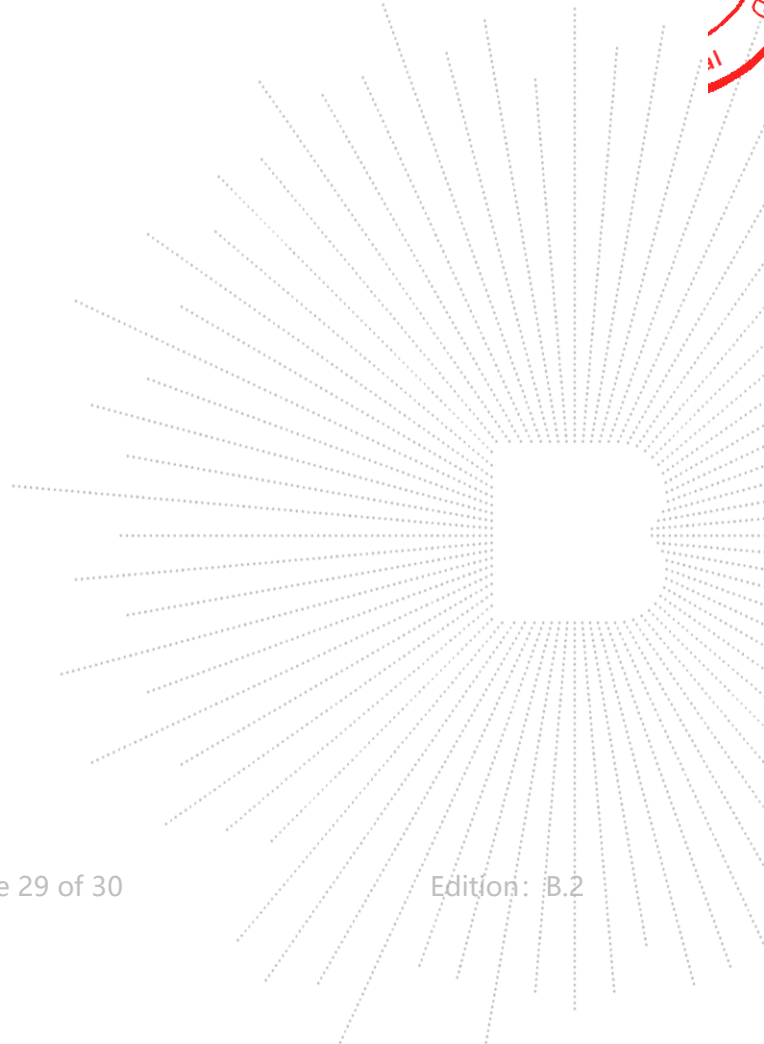
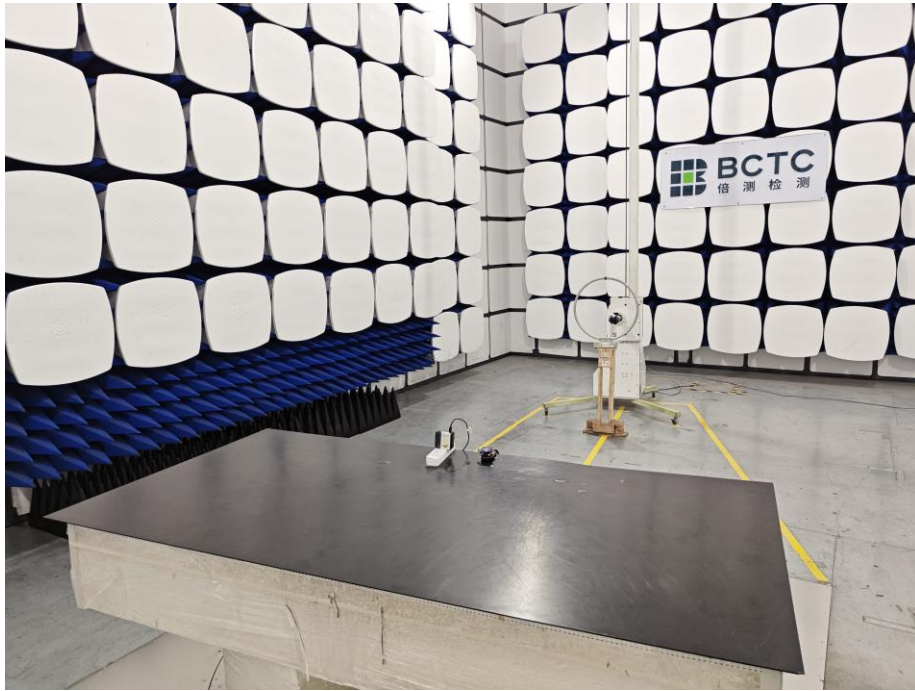


Radiated Measurement Photos



TEC
TC
OVB
t See





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.

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※※※※※ END ※※※※※

