

# TEST REPORT

Report No.: BCTC2304716048-1E

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Applicant: Shenzhen Daikang Technology Co., Ltd.

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Product Name: OPEN TWS EARPHONE

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Model/Type Ref.: OpenBuds

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Tested Date: 2023-04-20 to 2023-05-23

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Issued Date: 2023-06-01

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

## FCC ID: 2BA4B-OPENBUDS-BOX

Product Name: OPEN TWS EARPHONE

Trademark: Dacom

Model/Type Ref.: OpenBuds, OpenBuds Air, OpenBuds Pro, G136, G137

Prepared For: Shenzhen Daikang Technology Co., Ltd.

Address: Building i, No. 10, East District, Shangxue S&T Park, Bantian Street, Longgang District, Shenzhen Guangdong China 518000

Manufacturer: Shenzhen Sande Dacom Electronics Co., Ltd.

Address: Building i, No. 10, East District, Shangxue S&T Park, Bantian Street, Longgang District, Shenzhen Guangdong China 518000

Prepared By: Shenzhen BCTC Testing Co., Ltd.

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

Sample Received Date: 2023-04-20

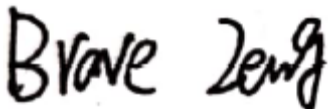
Sample tested Date: 2023-04-20 to 2023-05-23

Report No.: BCTC2304716048-1E

Test Standards: FCC Part15.209  
ANSI C63.10-2013

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

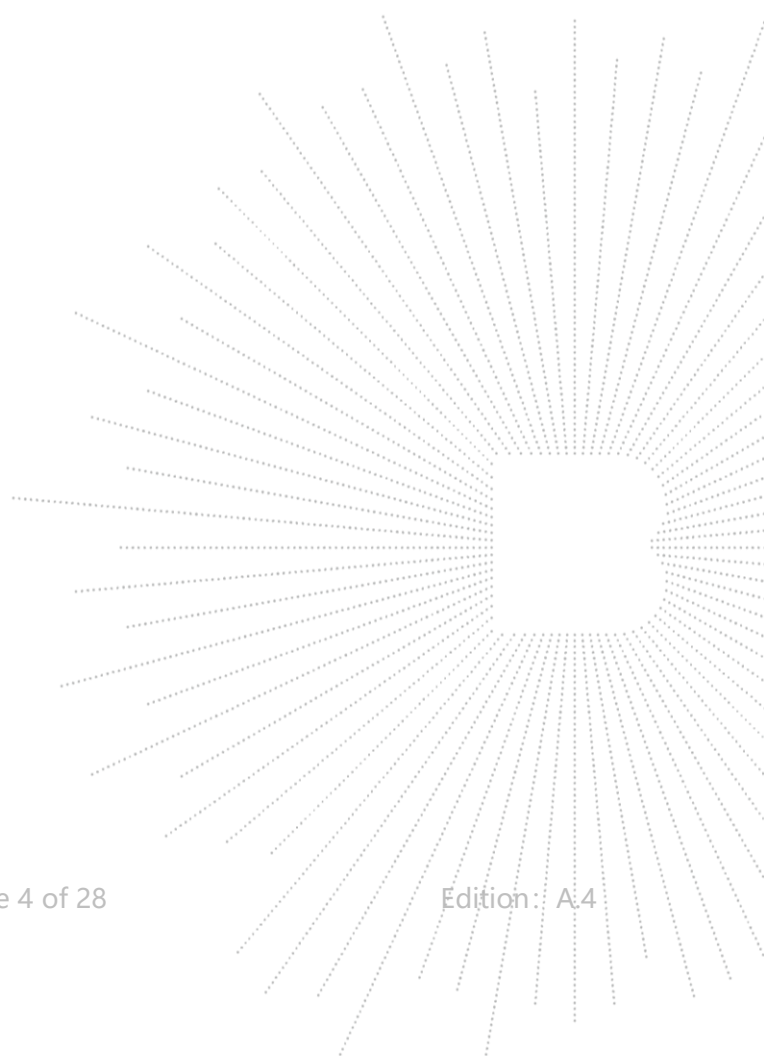
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**1. Version**

Report No.	Issue Date	Description	Approved
BCTC2304716048-1E	2023-06-01	Original	Valid



## 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

## 4. Product Information and Test Setup

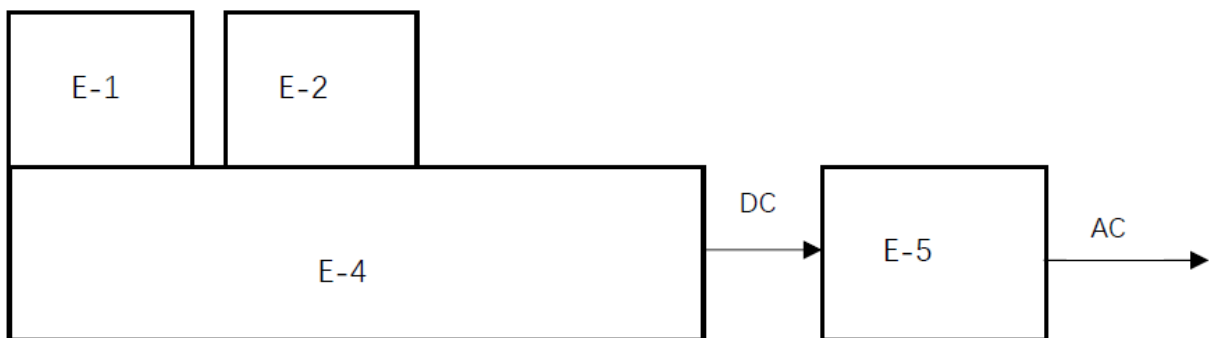
### 4.1 Product Information

Model/Type Ref.:	OpenBuds, OpenBuds Air, OpenBuds Pro,G136,G137
Model differences:	Our production units bearing the following model numbers are identical in circuitry and electrical, mechanical and physical construction; The difference is only in model names.
Product Description:	Wireless charging box
Operation Frequency:	850-950KHz
Antenna installation:	Loop coil antenna
Ratings:	Input DC 5V form the adapter Output Wireless : 5W+5W
Hardware Version:	N/A
Software Version:	N/A

### 4.2 Test Setup Configuration

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

Conducted Emission/Radiated Spurious Emission:



### 4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Earphone	N/A	N/A	N/A	Auxiliary
E-2	Earphone	N/A	N/A	N/A	Auxiliary
E-4	OPEN TWS EARPHONE	N/A	OpenBuds	N/A	EUT
E-5	Adapter	N/A	N/A	N/A	Auxiliary

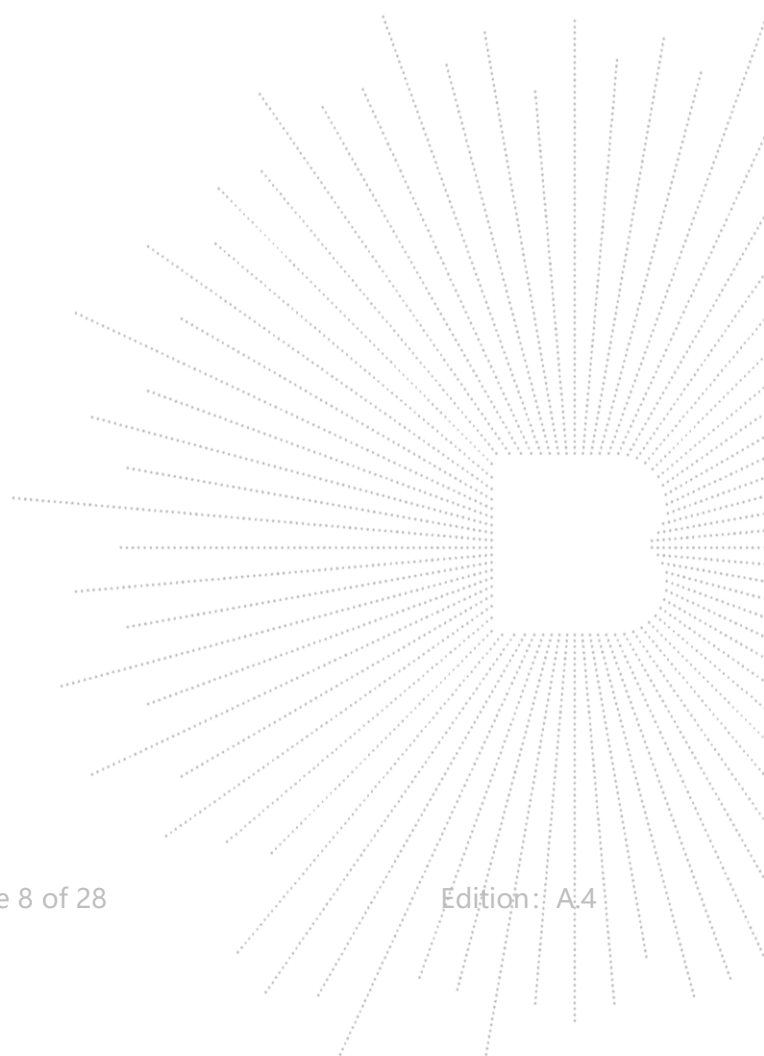
**Notes:**

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.

### 4.4 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 config

Test Modes 1	Output Wireless : 5W+5W
Test Modes 2	Charge+ Outpu Wireless : 5W+5W





## 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, Fuha i 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

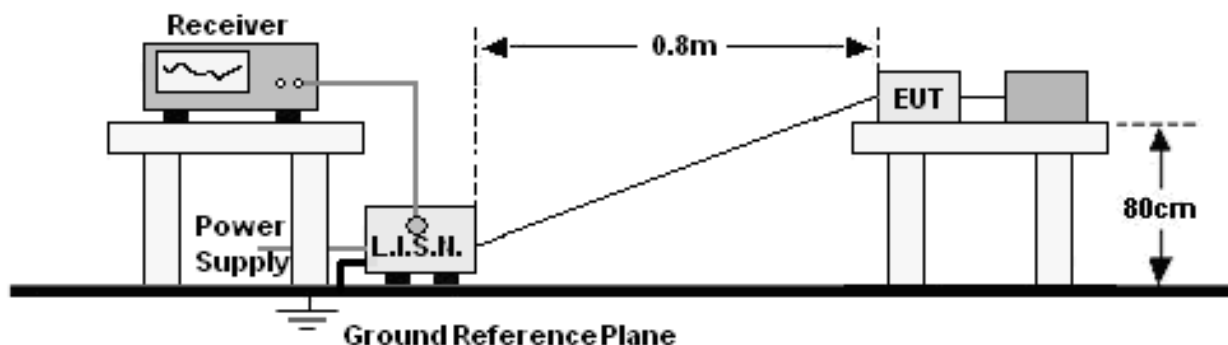
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Meter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP40	\	May 24, 2022	May 23, 2023

Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2022	May 23, 2023
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	May 23, 2023
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
RF cables1 (9kHz-30MHz)	Huber+Suhner	9kHz-30MHz	B1702988-000 8	May 26, 2022	May 25, 2023
RF cables2 (30MHz-1GHz)	Huber+Suhner	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023
RF cables3 (1GHz-40GHz)	Huber+Suhner	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	\	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 26, 2022	May 25, 2023
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\	May 26, 2022	May 25, 2023
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.

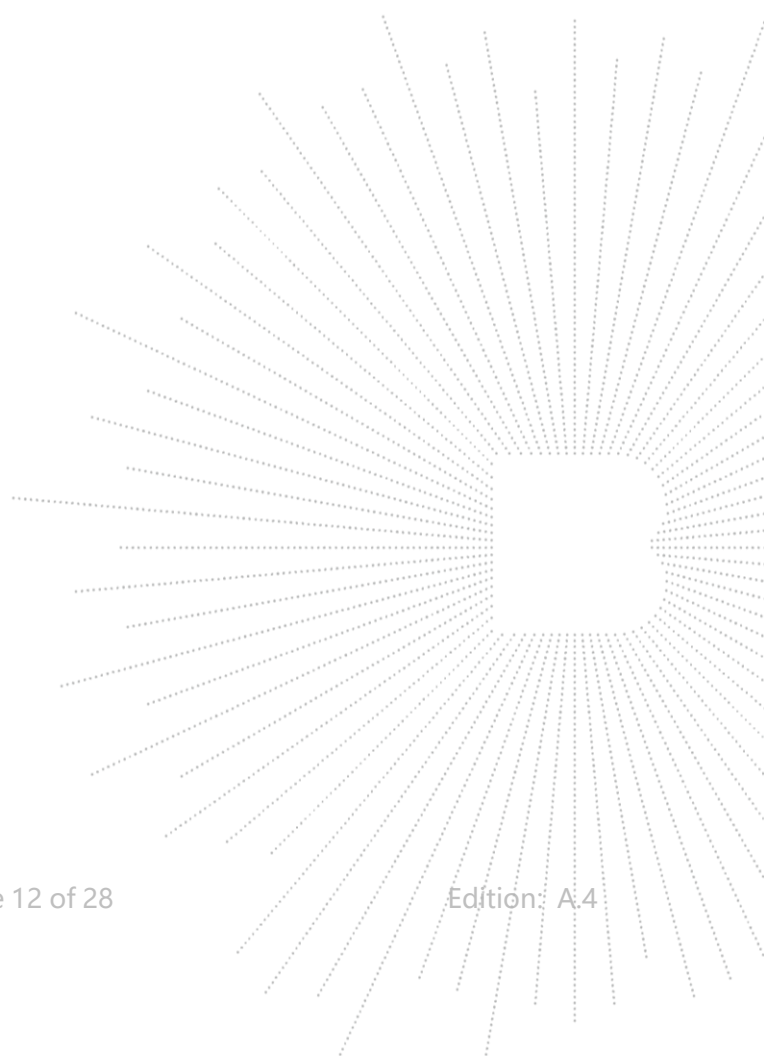
### 6.3 Test Procedure

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.

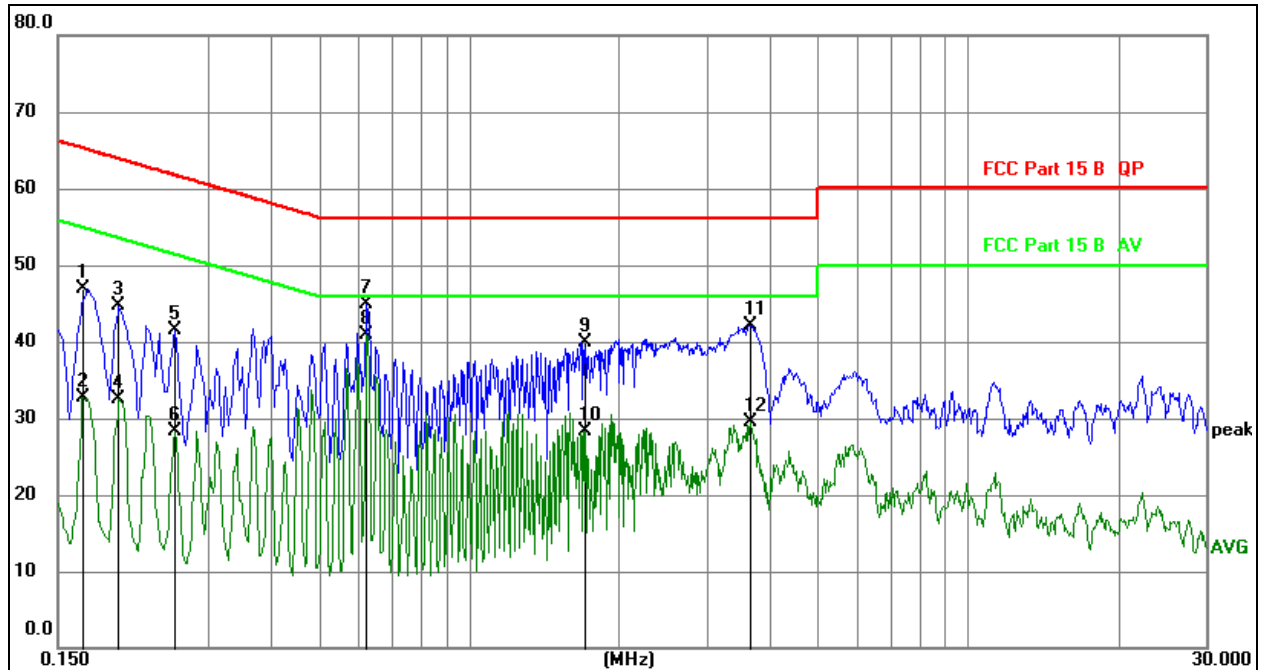
## 6.4 EUT Operating Conditions

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

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase:	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2

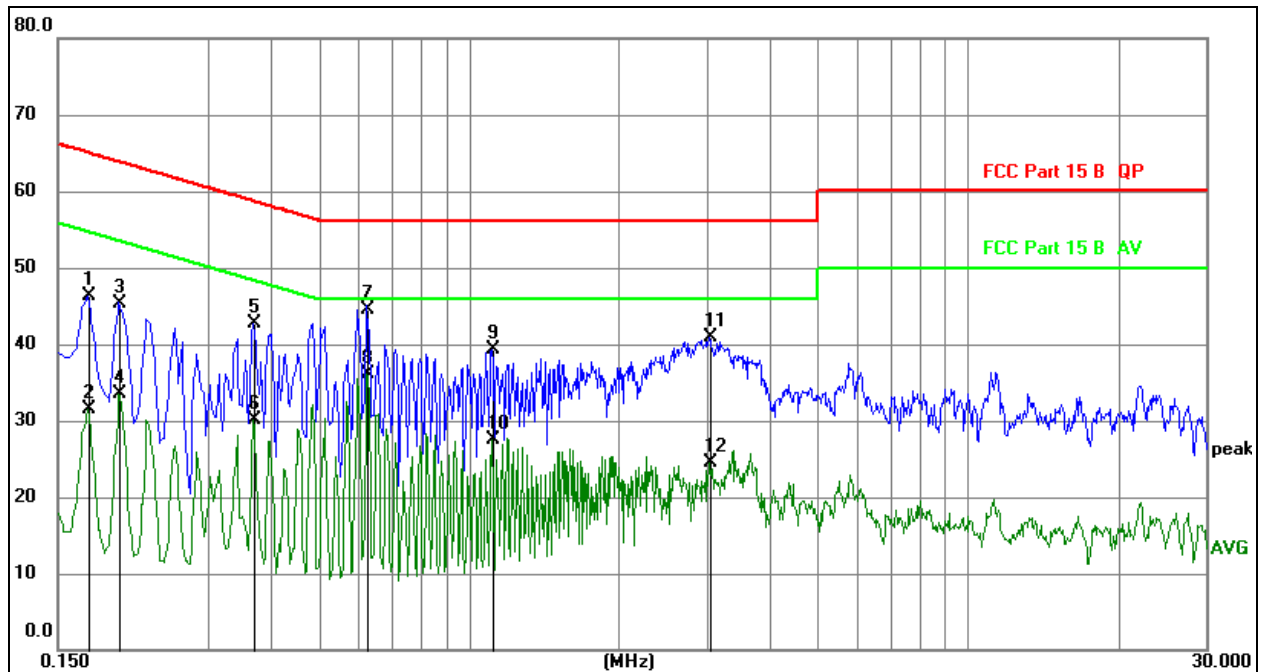


### Remark:

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 dBm	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1677	36.64	10.23	46.87	65.07	-18.20	QP	
2		0.1677	22.39	10.23	32.62	55.07	-22.45	AVG	
3		0.1986	34.46	10.24	44.70	63.67	-18.97	QP	
4		0.1986	22.25	10.24	32.49	53.67	-21.18	AVG	
5		0.2575	31.26	10.24	41.50	61.51	-20.01	QP	
6		0.2575	18.07	10.24	28.31	51.51	-23.20	AVG	
7		0.6238	34.62	10.22	44.84	56.00	-11.16	QP	
8	*	0.6238	30.71	10.22	40.93	46.00	-5.07	AVG	
9		1.7071	29.69	10.18	39.87	56.00	-16.13	QP	
10		1.7071	18.14	10.18	28.32	46.00	-17.68	AVG	
11		3.6611	31.91	10.23	42.14	56.00	-13.86	QP	
12		3.6611	19.31	10.23	29.54	46.00	-16.46	AVG	

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase:	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2


**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 dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1725	36.08	10.23	46.31	64.84	-18.53	QP	
2	0.1725	21.22	10.23	31.45	54.84	-23.39	AVG	
3	0.1995	35.16	10.24	45.40	63.63	-18.23	QP	
4	0.1995	23.21	10.24	33.45	53.63	-20.18	AVG	
5	0.3704	32.46	10.23	42.69	58.49	-15.80	QP	
6	0.3704	19.89	10.23	30.12	48.49	-18.37	AVG	
7	0.6270	34.21	10.21	44.42	56.00	-11.58	QP	
8 *	0.6270	25.89	10.21	36.10	46.00	-9.90	AVG	
9	1.1130	29.10	10.15	39.25	56.00	-16.75	QP	
10	1.1130	17.31	10.15	27.46	46.00	-18.54	AVG	
11	3.0300	30.61	10.22	40.83	56.00	-15.17	QP	
12	3.0300	14.31	10.22	24.53	46.00	-21.47	AVG	

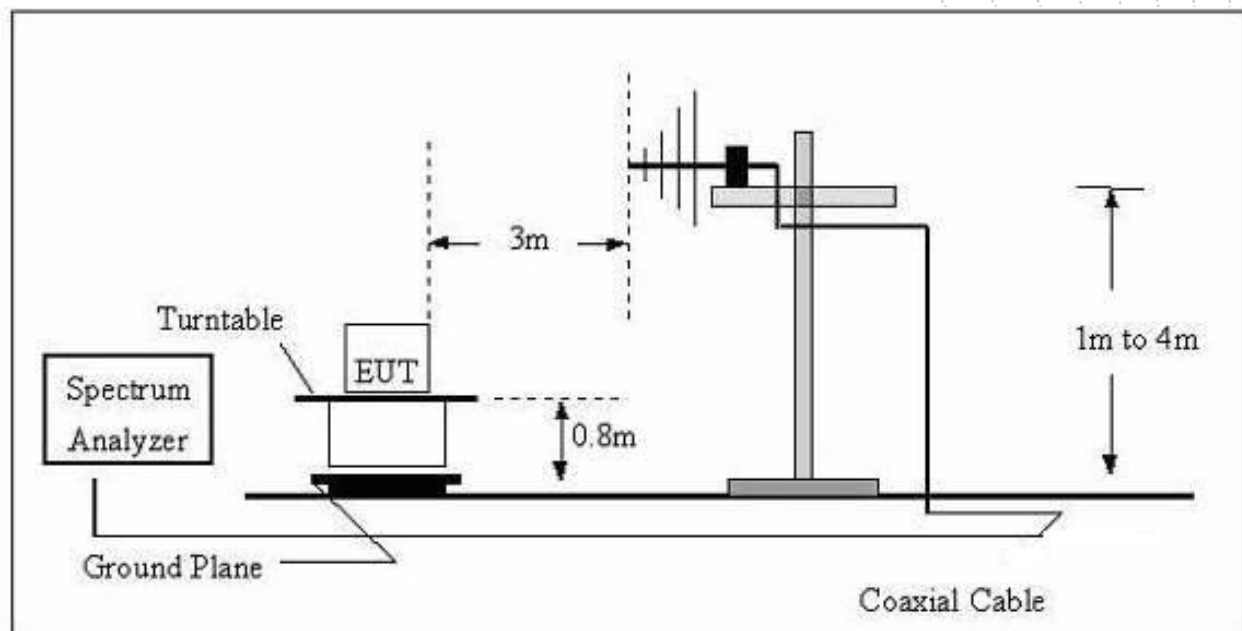
## 7. Radiated Emissions

### 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.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

## 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:

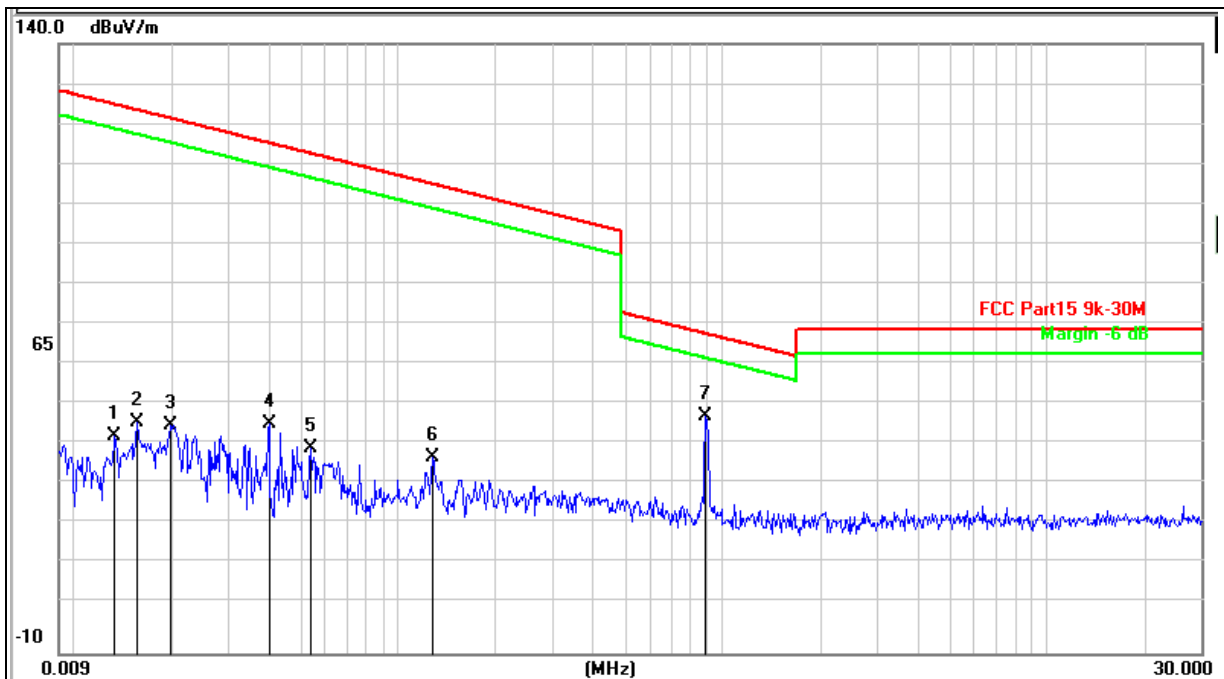
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top 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.
- 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.



## 7.4 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization:	/

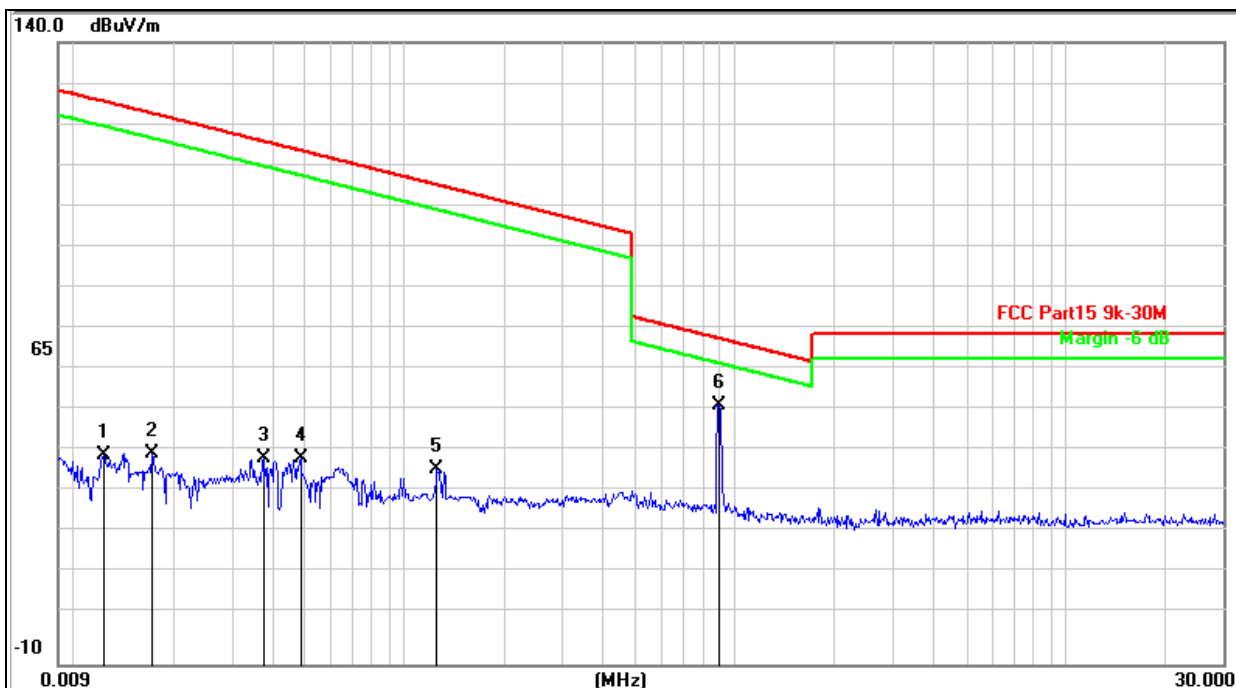


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		0.0134	53.94	-10.49	43.45	124.9	-81.53	peak		
2		0.0155	57.34	-10.57	46.77	123.7	-76.94	peak		
3		0.0199	56.84	-10.75	46.09	121.5	-75.46	peak		
4		0.0400	57.08	-10.68	46.40	115.5	-69.10	peak		
5		0.0541	50.91	-10.63	40.28	112.8	-72.61	peak		
6		0.1276	48.12	-10.11	38.01	105.4	-67.44	peak		
7	*	0.8874	58.37	-10.24	48.13	68.66	-20.53	peak		

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 2	Polarization:	/

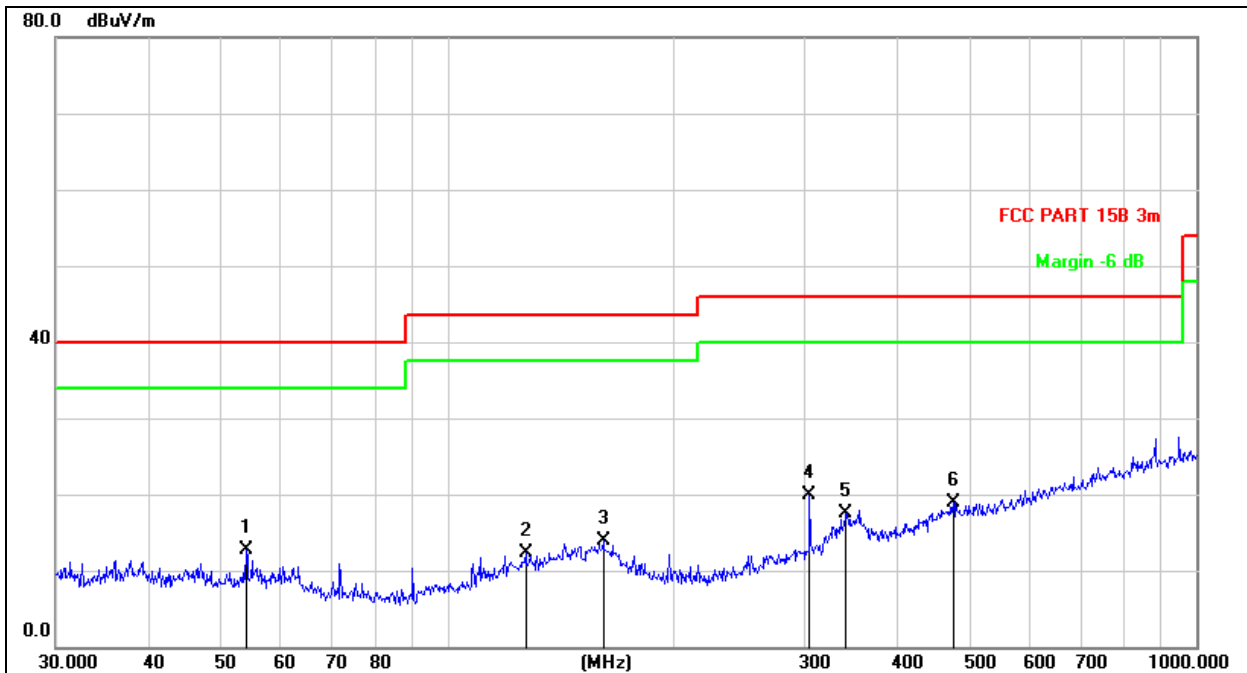


Remark:

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	Antenna Height cm	Table Degree	Comment
1		0.0123	50.78	-10.44	40.34	125.8	-85.47	peak			
2		0.0172	51.54	-10.64	40.90	122.8	-81.99	peak			
3		0.0374	50.36	-10.69	39.67	116.1	-76.48	peak			
4		0.0485	50.48	-10.66	39.82	113.8	-74.07	peak			
5		0.1257	47.14	-10.12	37.02	105.6	-68.60	peak			
6	*	0.8948	62.66	-10.24	52.42	68.58	-16.16	peak			

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

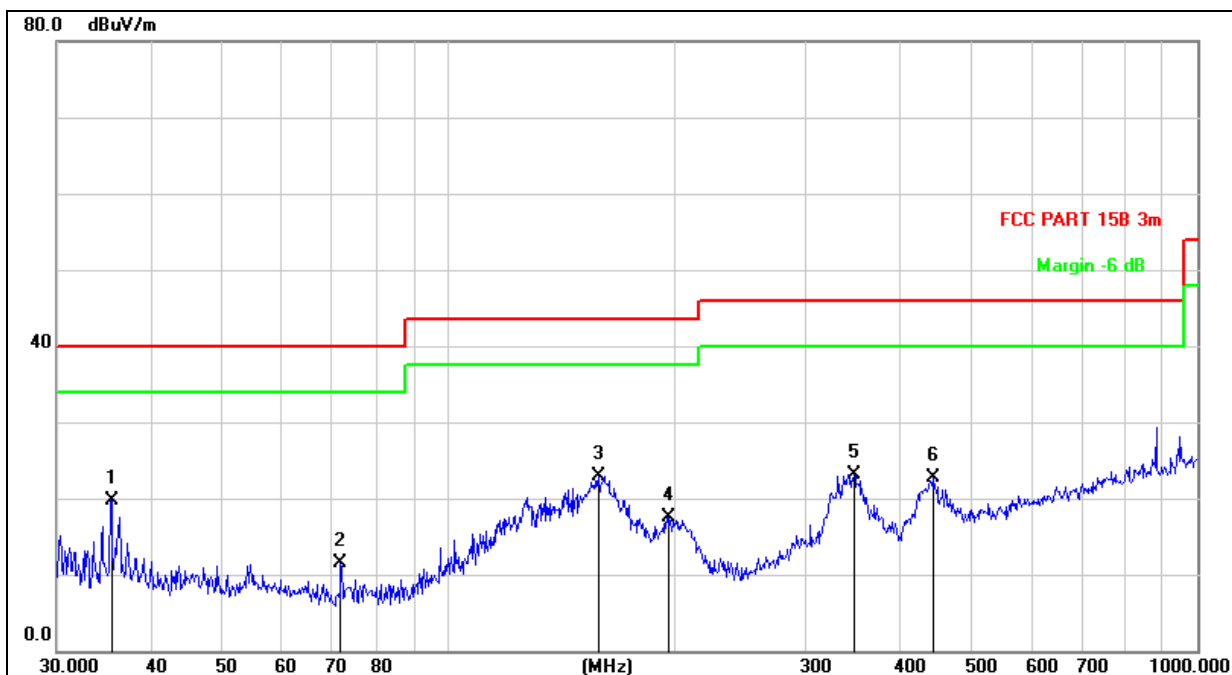


Remark:

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		53.8818	22.01	-9.39	12.62	40.00	-27.38	QP
2		127.2176	19.79	-7.57	12.22	43.50	-31.28	QP
3		161.4742	20.25	-6.44	13.81	43.50	-29.69	QP
4	*	304.6099	25.41	-5.53	19.88	46.00	-26.12	QP
5		340.7817	22.07	-4.64	17.43	46.00	-28.57	QP
6		473.8347	19.97	-1.04	18.93	46.00	-27.07	QP

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

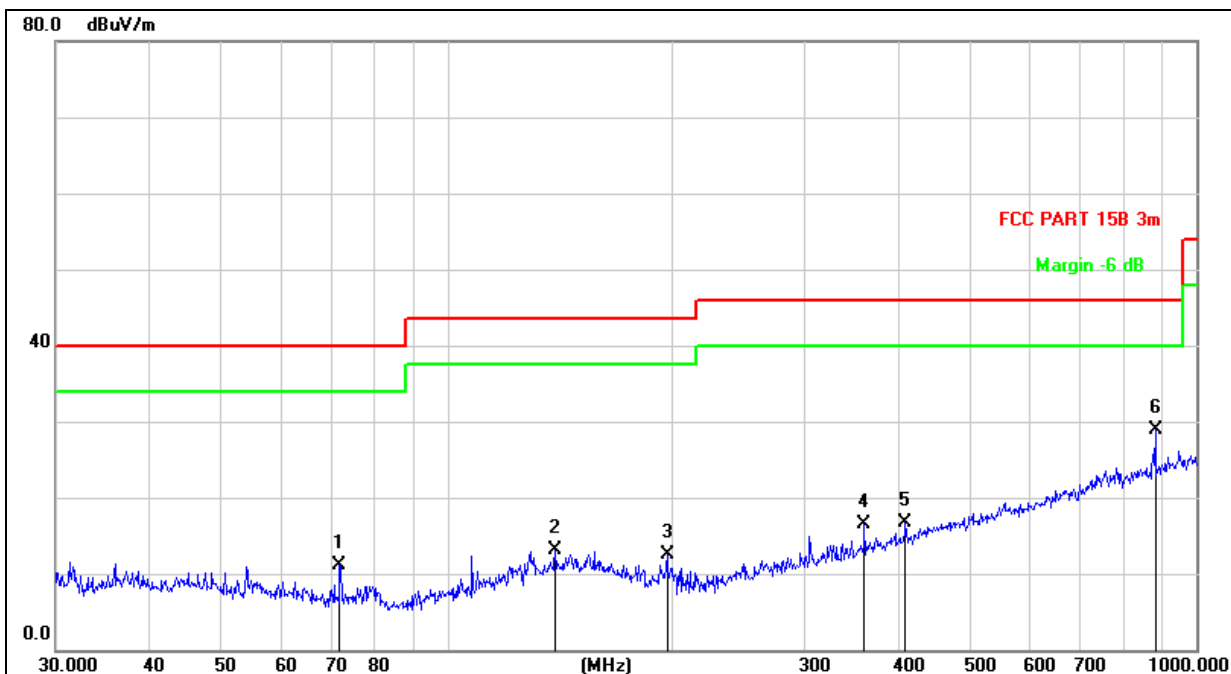


Remark:

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	*	35.4993	27.99	-8.32	19.67	40.00	-20.33	QP
2		71.8320	22.55	-11.06	11.49	40.00	-28.51	QP
3		158.8677	29.13	-6.22	22.91	43.50	-20.59	QP
4		197.2001	26.66	-9.13	17.53	43.50	-25.97	QP
5		348.0274	27.54	-4.47	23.07	46.00	-22.93	QP
6		443.2943	24.24	-1.53	22.71	46.00	-23.29	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	AC 120V/60Hz
Test Mode:	Mode 2	Polarization:	Vertical



Remark:

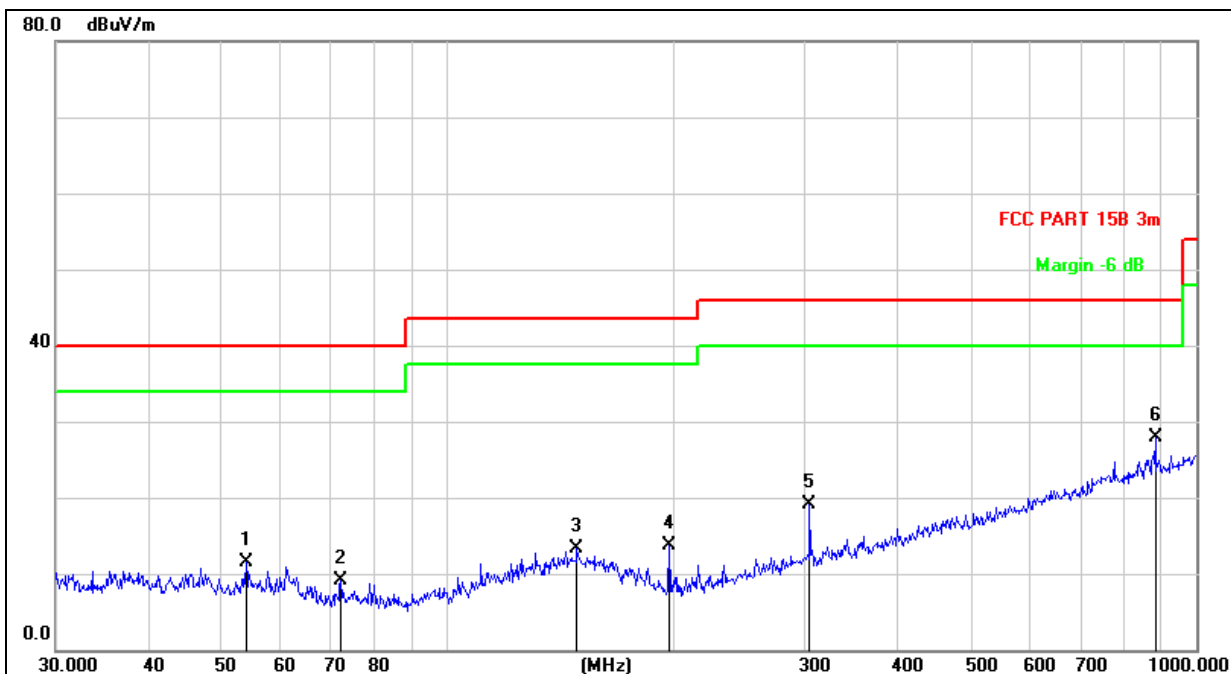
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement=Reading Level+ Correct Factor

3. Over=Measurement-Limit

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1	71.8320	22.16	-11.06	11.10	40.00	-28.90	QP		
2	139.3613	19.63	-6.50	13.13	43.50	-30.37	QP		
3	196.5098	21.57	-9.08	12.49	43.50	-31.01	QP		
4	360.4476	20.57	-4.12	16.45	46.00	-29.55	QP		
5	408.9460	19.40	-2.68	16.72	46.00	-29.28	QP		
6 *	881.4067	22.79	6.11	28.90	46.00	-17.10	QP		

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 2	Polarization:	Horizontal



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement=Reading Level+ Correct Factor

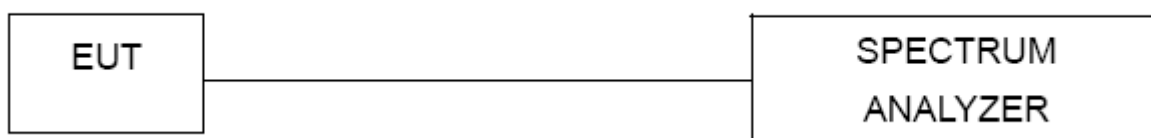
3. Over=Measurement-Limit

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1	53.8817	20.95	-9.39	11.56	40.00	-28.44	QP		
2	72.0841	20.15	-11.08	9.07	40.00	-30.93	QP		
3	148.9625	18.97	-5.66	13.31	43.50	-30.19	QP		
4	197.8926	22.83	-9.18	13.65	43.50	-29.85	QP		
5	304.6099	24.72	-5.53	19.19	46.00	-26.81	QP		
6 *	881.4067	21.84	6.11	27.95	46.00	-18.05	QP		

## 8. 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:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	Result
889.4	1.136	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.

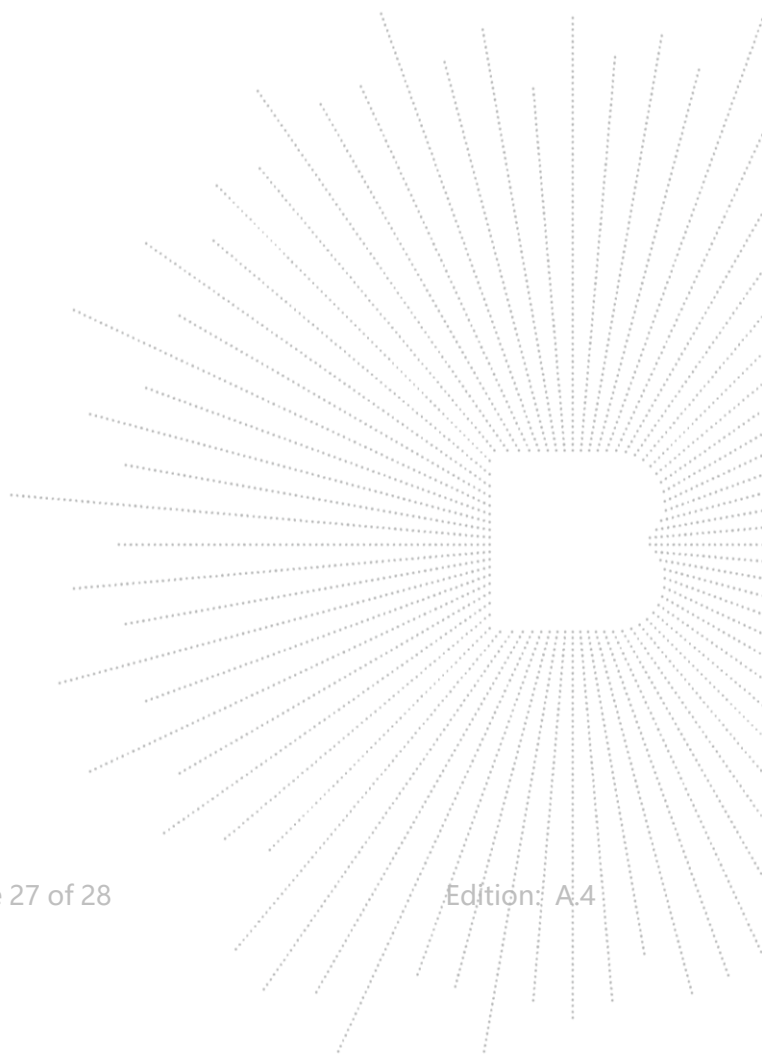
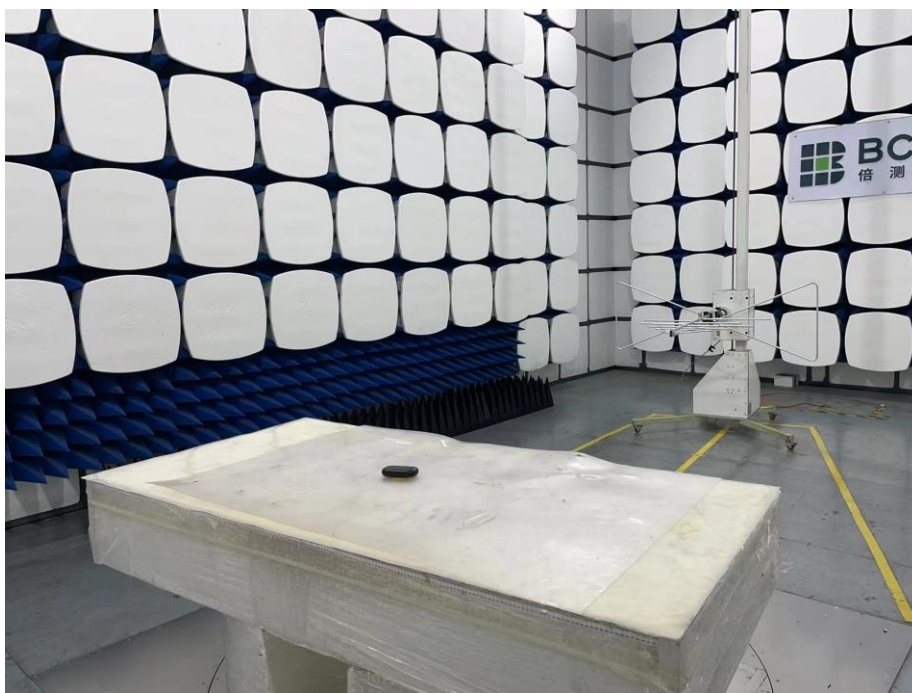
## 10. EUT Test Setup Photographs

### Conducted emissions



### Radiated Measurement 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.

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\*\*\*\*\* END \*\*\*\*\*