

Report No.: SZEM200500438902

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TEST REPORT

Application No.: SZEM2005004389BA **Applicant:** Otter Products, LLC.

Address of Applicant: 209 South Meldrum, Fort Collins, Colorado, 80521 United States

Manufacturer: Hamedata Technology Co.,Limited

Address of Manufacturer: 3F, Building 1, Huahan Industrial Park, No.16, Jinniu West Rd., Pingshan

New District., Shenzhen

Factory: Hamedata Technology Co., Limited

Address of Factory: 3F, Building 1, Huahan Industrial Park, No.16, Jinniu West Rd., Pingshan

New District., Shenzhen

Equipment Under Test (EUT):

EUT Name: Power Bank
Model No.: OBFTC-0041-A
Trade Mark: OTTERBOX

FCC ID: 2AEEV-OBFTC0041A

Standard(s): 47 CFR Part 15, Subpart C

Date of Receipt: 2020-06-01

Date of Test: 2020-06-02 to 2020-06-09

Date of Issue: 2020-06-10

Test Result: Pass*



Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier						
01		2020-06-10		Original			

Authorized for issue by:		
	Peter. Grag	
	Peter Geng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass			

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass			
Restricted Bands	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass			
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			



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General Information

4.1 Details of E.U.T.

Power Supply:	Battery Capacity: 10000mAh/3.7V 37Wh Rated Capacity(min):5800mAh USB-C Input: DC 5V, 3A; DC 9V, 2A; DC 12V, 1.5A USB-A Output: DC 5V, 2.4A; DC 9V, 2A; DC 12V, 1.5A USB-C Output: DC 5V, 3A; DC 9V, 2A; DC 12V, 1.5A Qi Output: 5W; 7.5W; 10W Total Output: DC 5V, 3A
Operation Frequency:	125.80kHz to 129.49kHz
Modulation Type:	Load modulation
Antenna Type:	Loop antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Occupied Bandwidth	± 3%
3	Radiated Spurious emission test	± 4.5dB (Below 1GHz)
4	Temperature test	± 1°C
5	Humidity test	± 3%
6	Supply voltages	± 1.5%
7	Time	± 3%



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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5 **Equipment List**

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Restricted Bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27



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Radiated Emissions (9kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15	
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07	
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	

Radiated Emissions (30MHz-1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10		
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07		
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08		
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21		

General used equipment									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06				



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

For report reference only

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 28.8 °C Humidity: 44.9 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

c: Charge mode_Keep the EUT charging(5W)

d: Charge mode_Keep the EUT charging(7.5W)

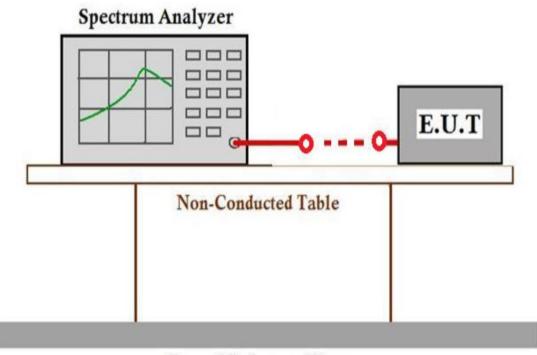
e: Charge mode_Keep the EUT charging(10W)

e: Charge mode_Keep the EUT charging(10W)

for final test:

e. Charge mode_keep the EUT chargin

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data



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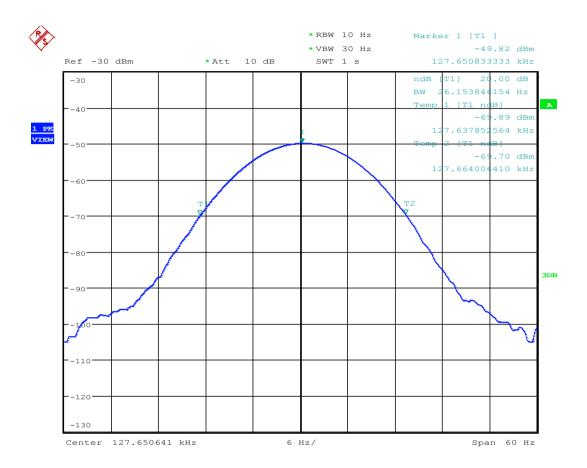
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7.2 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

The fundamental wave can not fall in the restricted band 90KHz-110KHz

7.2.1 E.U.T. Operation

Operating Environment:

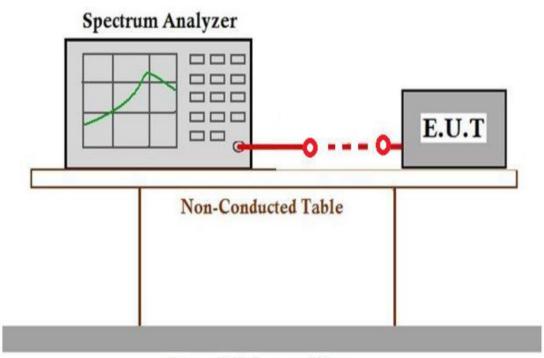
Temperature: 28.8 °C Humidity: 44.9 % RH Atmospheric Pressure: 1005 mbar

Pretest these c: Charge mode_Keep the EUT charging(5W) modes to find d: Charge mode_Keep the EUT charging(7.5W) the worst case: e: Charge mode_Keep the EUT charging(10W) The worst case

for final test:

e: Charge mode_Keep the EUT charging(10W)

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data



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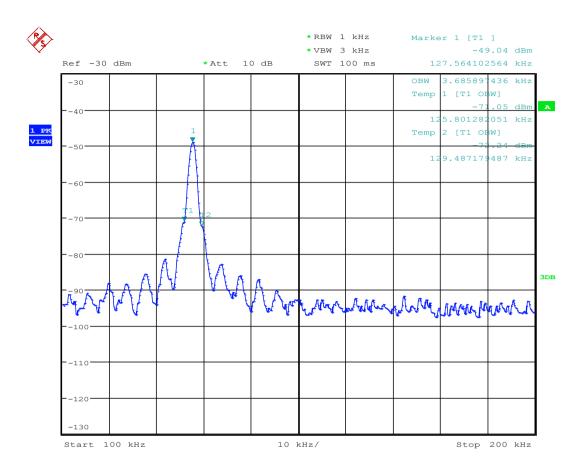
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7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15. Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{\text{near field}} = 47.77 / f_{\text{MHz}}$

where f_{MHz} is the frequency of the emission being measured in MHz.



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7.3.1 E.U.T. Operation

Operating Environment:

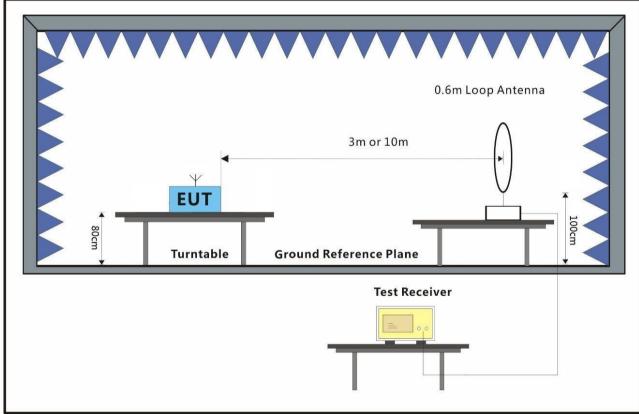
Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Pretest these c: Charge mode_Keep the EUT charging(5W) d: Charge mode_Keep the EUT charging(7.5W) e: Charge mode_Keep the EUT charging(10W)

The worst case e: Charge mode_Keep the EUT charging(10W) for final test:

7.3.2 Test Setup Diagram

7.5.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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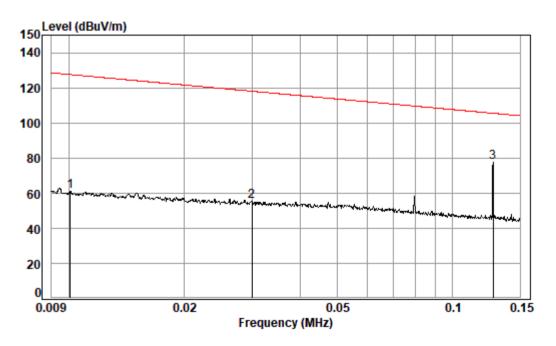
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Condition: 3m

Job No. : 04389BA

Test Mode: e

		Ant	Preamp	Cable	Read		Limit	0ver		
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark	
_										_
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	0.010	20.86	30.65	0.99	69.83	61.03	127.54	-66.51	Average	
2	0.030	15.50	31.38	0.01	71.22	55.35	118.06	-62.71	Average	
3 pp	0.128	13.96	32.20	0.02	95.62	77.40	105.48	-28.08	Average	



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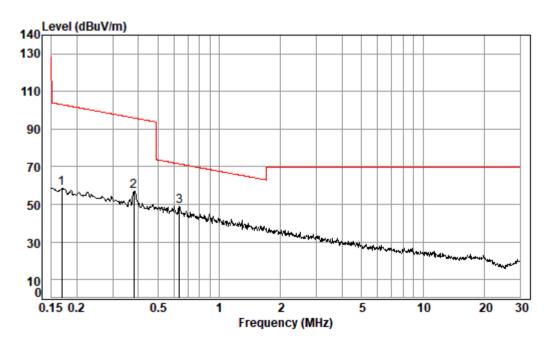
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Condition: 3m

Job No. : 04389BA

Test Mode: e

	Freq		Preamp Factor						
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 av									Average Average
3 pp	0.637	13.80	32.25	0.07	67.38	49.00	71.52	-22.52	QP



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7.4 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

ANSI C63.10 (2013) Section 6.5 Test Method:

Measurement Distance: 10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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7.4.1 E.U.T. Operation

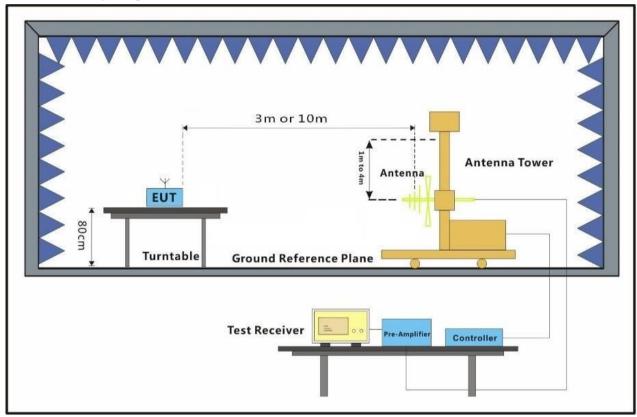
Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Pretest these c: Charge mode_Keep the EUT charging(5W) d: Charge mode_Keep the EUT charging(7.5W) e: Charge mode_Keep the EUT charging(10W)

The worst case e: Charge mode_Keep the EUT charging(10W) for final test:

7.4.2 Test Setup Diagram





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7.4.3 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

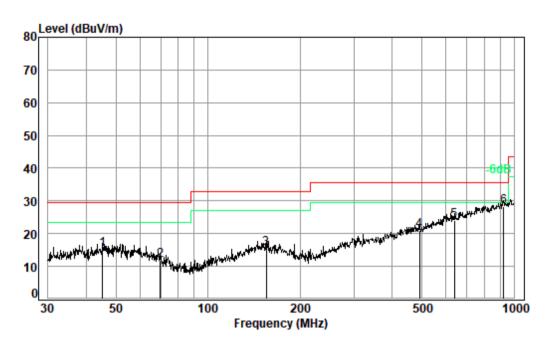




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Mode:e; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 04389BA

Test Mode: e

		Ant	Preamp	Cable	Read		Limit	0ver	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	45.217	20.42	32.44	0.96	26.19	15.13	29.50	-14.37	QP
2	69.845	17.62	32.39	1.08	25.54	11.85	29.50	-17.65	QP
3	154.821	20.00	32.30	1.49	26.43	15.62	33.00	-17.38	QP
4	490.745	23.91	32.44	2.89	26.50	20.86	35.60	-14.74	QP
5	638.369	26.28	32.12	3.19	26.83	24.18	35.60	-11.42	QP
6 рр	925.756	29.80	31.38	3.45	26.34	28.21	35.60	-7.39	QP



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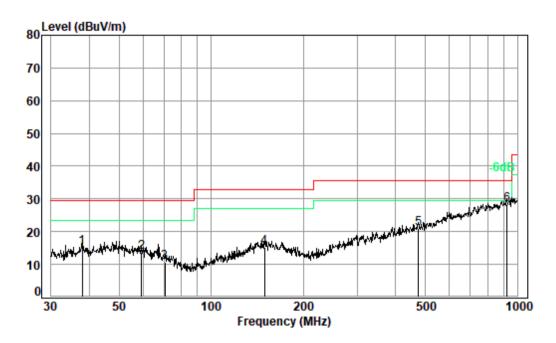
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Mode:e: Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 04389BA

Test Mode: e

		Ant	Preamp	Cable	Read		Limit	0ver	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.945	19.99	32.42	0.91	26.75	15.23	29.50	-14.27	QP
2	59.232	19.33	32.42	1.04	25.82	13.77	29.50	-15.73	QP
3	70.584	17.39	32.39	1.08	24.62	10.70	29.50	-18.80	QP
4	149.486	20.18	32.30	1.47	25.82	15.17	33.00	-17.83	QP
5	475.499	23.70	32.38	2.82	26.74	20.88	35.60	-14.72	QP
6 pp	925.756	29.80	31.38	3.45	26.37	28.24	35.60	-7.36	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
37.95	15.23	5.77	19.25	25.69	40.00	-14.31	V
59.23	13.77	4.88	16.27	24.23	40.00	-15.77	V
70.58	10.70	3.43	11.43	21.16	40.00	-18.84	V
149.49	15.17	5.73	19.12	25.63	43.50	-17.87	V
475.50	20.88	11.07	36.89	31.34	46.00	-14.66	V
925.76	28.24	25.82	86.08	38.70	46.00	-7.30	V
45.22	15.13	5.71	19.03	25.59	40.00	-14.41	Н
69.85	11.85	3.91	13.04	22.31	40.00	-17.69	Н
154.82	15.62	6.04	20.13	26.08	43.50	-17.42	Н
490.75	20.86	11.04	36.80	31.32	46.00	-14.68	Н
638.37	24.18	16.18	53.94	34.64	46.00	-11.36	Н
925.76	28.21	25.73	85.78	38.67	46.00	-7.33	Н



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8 Photographs

8.1 Test Setup

Please refer to setup photo.

8.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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