

Test Report

Report No.: MTi221129009-05E1

Date of issue: 2023-03-13

Applicant: Mous Products Limited

Product: Charging Station with MagSafe®

Model(s): A668

FCC ID: 2AN72-A668

Shenzhen Microtest Co., Ltd. http://www.mtitest.com



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Table of contents

General Description	5
Description of the EUT	5
Description of test modes	6
Environmental conditions	6
Measurement uncertainty	7
. Test laboratory	7
Summary of Test Result	8
List of test equipment	9
Test Results	10
5.1 Antenna requirement	10
Description of the EUT antenna	10
5.3 AC power line conducted emissions	11
5.5 Occupied bandwidth test	21
hotographs of the test setup	23
hotographs of the EUT	23
	Description of the EUT Description of test modes Description of support units Environmental conditions Measurement uncertainty Test laboratory Summary of Test Result List of test equipment Test Results 5.1 Antenna requirement Description of the EUT antenna 5.3 AC power line conducted emissions 5.4 Radiated emissions 5.5 Occupied bandwidth test



Test Result Certification			
Applicant:	Applicant: Mous Products Limited		
Address:	WeWork Senna Building, Gorsuch Place, London, E2 8JF, United Kingdom		
Manufacturer:	Shenzhen Powerqi Technology Co., Ltd.		
Address:	201, 302, 401, Building A4, Block A, Fangxing Science & Tech. Park, No. 13 of BaoNan Road, Longgang Community, Longgang Street, Longgang District, Shenzhen		
Factory:	Shenzhen Powerqi Technology Co., Ltd.		
Address:	201, 302, 401, Building A4, Block A, Fangxing Science & Tech. Park, No. 13 of Bao Nan Road, Longgang Community, Longgang Street, Longgang District, Shenzhen		
Product description			
Product name:	Charging Station with MagSafe®		
Trademark:	MOUS		
Model name:	A668		
Series Model:	N/A		
Standards:	FCC 47 CFR Part 15 Subpart C		
Test method:	ANSI C63.10-2013		
Date of Test			
Date of test:	2022-12-26 ~ 2023-01-10		
Test result:	Pass		

Test Engineer	:	Yanice Xie
		(Yanice Xie)
Reviewed By:	:	leon chen
		(Leon Chen)
Approved By:	:	tom Xue
		(Tom Xue)



1. General Description

1.1 Description of the EUT

Product name:	Charging Station with MagSafe®		
Model name:	A668		
Series Model:	N/A		
Model difference:	N/A		
Electrical rating:	Input: DC5V/3A, 9V/3A, 12/3A, 15V/3A, 20V/3.25A Output: 15W MagSafe, 5W Qi(7.5W iPhone), 18W USB-C, 5W Pogo Connector		
Accessories:	Cable: USB-C to USB-C cable(1.5m)		
Software version:	V10		
Hardware version:	V09		
Test sample(s) number:	MTi221129009-05S1001		
RF specification:			
Operation frequency:	transmitter 1: 115 kHz – 205 kHz&360 kHz transmitter 2: 115 kHz – 205 kHz		
Modulation type:	ASK		
Antenna type:	Coil Antenna		



1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes	
Mode 1	Wireless Magsafe Output(5W)	
Mode 2	Wireless Magsafe Output(7.5W)	
Mode 3	Wireless Magsafe Output(15W)	
Mode 4	Wireless Output(Qi:5W)	
Mode 5	Wireless Output(7.5W iPhone)	
Mode 6	Wireless Magsafe Output(5W)+ Wireless Output(Qi:5W)	
Mode 7	Wireless Magsafe Output(5W)+ Wireless Output(7.5W iPhone)	
Mode 8	Wireless Magsafe Output(7.5W)+ Wireless Output(Qi:5W)	
Mode 9	Wireless Magsafe Output(7.5W)+ Wireless Output(7.5W iPhone)	
Mode 10	Wireless Magsafe Output(15W)+ Wireless Output(Qi:5W)	
Mode 11	Wireless Magsafe Output(15W)+ Wireless Output(7.5W iPhone)	
Mode 12	Standby	

The worst test mode of conducted emissions: Mode 10

The worst test mode of radiated emissions(9kHz-30kHz): Mode 11 The worst test mode of radiated emissions(30kHz-1GHz): Mode 6

1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list					
Description	Model	Serial No.	Manufacturer		
Load 1	YBZ1.1	/	YBZ		
Mobile phone	iPhone 12	/	Apple		
Mobile phone	iPhone 12	/	Apple		
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.		
Support cable list					
Description	Length (m)	From	То		
/	1	/	/		

1.4 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Humidity:	20 % RH ~ 75 % RH
Atmospheric pressure:	98 kPa~101 kPa

Address: 101, No. 7, Zone2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



2. Measurement uncertainty

Measurement	Uncertainty	
Conducted emission (9 kHz~30 MHz)	± 2.5 dB	
Radiated emission (9 kHz ~ 30 MHz)	± 4.0dB	
Radiated emission (30 MHz~1 GHz)	± 4.2 dB	
Radiated emission (above 1 GHz)	± 4.3 dB	
Occupied bandwidth	± 3 %	
Temperature	±1 degree	
Humidity	± 5 %	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.	
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Telephone:	(86-755)88850135	
Fax:	(86-755)88850136	
CNAS Registration No.:	CNAS L5868	
FCC Registration No.:	448573	



4. Summary of Test Result

No.	FCC reference	Description of test	Result	
	Emission			
1	FCC Part 15.203	Antenna requirement	Pass	
2	FCC Part 15.207	AC power line Conducted emissions	Pass	
3	FCC Part 15.209	Radiated emissions	Pass	
4	FCC Part 15.215	Occupied bandwidth	Pass	



5. List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E043	EMI test receiver	R&S	ESCI7	101166	2022/05/05	2023/05/04
MTI-E044	Broadband antenna	Schwarzbeck	VULB9163	9163-1338	2021/05/30	2023/05/29
MTI-E045	Horn antenna	Schwarzbeck	BBHA9120D	9120D-2278	2021/05/30	2023/05/29
MTi-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2021/05/30	2023/05/29
MTI-E047	Pre-amplifier	Hewlett-Packard	8447F	3113A06184	2022/05/05	2023/05/04
MTI-E048	Pre-amplifier	Agilent	8449B	3008A01120	2022/05/05	2023/05/04
MTi-E120	Broadband antenna	Schwarzbeck	VULB9163	9163-1419	2021/05/30	2023/05/29
MTi-E121	Pre-amplifier	Hewlett-Packard	8447D	2944A09365	2022/04/15	2023/04/14
MTi-E123	Pre-amplifier	Agilent	8449B	3008A04723	2022/05/05	2023/05/04
MTi-E122	MXA signal analyzer	Agilent	N9020A	MY5444085 9	2022/05/05	2023/05/04
MTi-E001	Artificial Mains Network	R&S	ESH2-Z5	100263	2022/05/05	2023/05/04
MTi-E002	EMI Test Receiver	R&S	ESCI3	101368	2022/05/05	2023/05/04
MTi-E023	Artificial power network	Schwarzbeck	NSLK8127	NSLK8127# 841	2022/05/05	2023/05/04
MTi-E025	Artificial power network	Schwarzbeck	NSLK8127	8127183	2022/05/05	2023/05/04
MTi-E026	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	NTFM 8158 #199	2022/05/05	2023/05/04
MTi-E021	EMI Test Receiver	R&S	ESCS30	100210	2022/05/05	2023/05/04
MTi-E024	Artificial power network	Schwarzbeck	NSLK8127	01001	2022/05/05	2023/05/04

Note: the calibration interval of the test equipment is 12 or 24 months and the calibrations are traceable to international system unit(SI)



6. Test Results

5.1 Antenna requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Description of the EUT antenna

The antenna of EUT is coil antenna, which is integrated on the main PCB of the EUT and no consideration of replacement.



5.3 AC power line conducted emissions

5.3.1 Limits

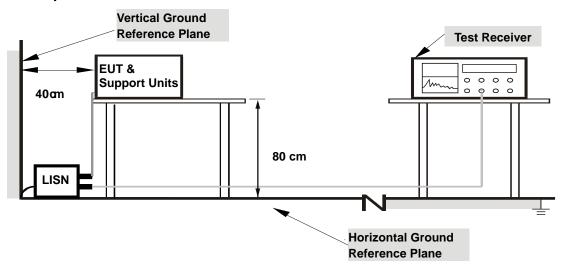
Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dBµV	Limit-Average dBµV
0.15 -0.5		66 to 56	56 to 46
0.5 -5	Average / 9 kHz	56	46
5 -30		60	50

Note 1: the limit decreases with the logarithm of the frequency in the range of 0.15 MHz to 0.5 MHz.

5.3.2 Test Procedures

- a) The test setup is refer to the standard ANSI C63.10-2013.
- b) The EUT is connected to the main power through a line impedance stabilization network (LISN). All support equipment is powered from additional LISN(s).
- c) Emissions were measured on each current carrying line of the EUT using an EMI test receiver connected to the LISN powering the EUT.
- d) The test receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes described in Item 1.2.
- e) The test data of the worst-case condition(s) was recorded.

5.3.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the test setup.

5.3.4 Test Result

Calculation formula:

Measurement (dB μ V) = Reading Level (dB μ V) + Correct Factor (dB) Over (dB) = Measurement (dB μ V) - Limit (dB μ V)

st mode:	Mode 10	Phase:	L	
wer supply:	Powered by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1	
80.0 dBuV				
70				
60		FCCPart15 ClassB AC Co	onduction(QP)	
50		FCCPart15 ClassB AC Co	onduction(AVG)	
40 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
30	MÎ () J.	6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 9 11	
20	" Mury Thomas The Mandalle	\(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\fraca	8 peak	
10	7777171 /W WWWWWWW	YPP-47410-MAID-4644/PMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AVG	
0				
-10				
-20				

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1980	38.92	10.16	49.08	63.69	-14.61	QP
2		0.1980	22.04	10.16	32.20	53.69	-21.49	AVG
3		0.4860	14.58	10.24	24.82	46.24	-21.42	AVG
4		0.4940	21.38	10.25	31.63	56.10	-24.47	QP
5		3.8100	7.57	10.50	18.07	46.00	-27.93	AVG
6		4.0860	20.66	10.53	31.19	56.00	-24.81	QP
7		12.0620	15.96	10.70	26.66	60.00	-33.34	QP
8		12.0620	4.66	10.70	15.36	50.00	-34.64	AVG
9		18.2420	17.71	10.60	28.31	60.00	-31.69	QP
10		18.2420	14.84	10.60	25.44	50.00	-24.56	AVG
11		29.1140	17.39	10.76	28.15	60.00	-31.85	QP
12		29.2340	11.68	10.76	22.44	50.00	-27.56	AVG

Power supply: Powered by AC/DC adapter (AC 120V/60Hz) Test site: CE chamber 1 80.0 dBuV 70 60 50 40 20 10 0	est mode:	Mode 10	Phase:	N
FCCPart15 ClassB AC Conduction(QP) FCCPart15 ClassB AC Conduction(AVG) FCCPart15 ClassB AC Conduction(AVG) AVG 10 -10	ower supply:	Powered by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1
FCCPart15 ClassB AC Conduction(QP) 50 40 30 20 -10	80.0 dBuV			
FCCPart15 ClassB AC Conduction(AVG) 40 30 20 10 -10	70			
10 -10	60		FCCPart15 ClassB AC C	onduction(QP)
20 10 0 -10	50		FCCPart15 ClassB AC C	onduction(AVG)
20 10 -10	40 2			
10 0 -10	30	4		7 9 1
0	20	A Marie Valler of Mary Mary Mary Mary	AND STATE OF THE S	8 peak
-10	10	\!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Marian Company	AVG
	0		anthth le.	100%.
.20	-10			
-20	-20			

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1580	44.13	10.13	54.26	65.57	-11.31	QP
2		0.1580	28.06	10.13	38.19	55.57	-17.38	AVG
3		0.5380	12.03	10.07	22.10	46.00	-23.90	AVG
4		0.5420	19.16	10.07	29.23	56.00	-26.77	QP
5		3.7020	24.22	10.48	34.70	56.00	-21.30	QP
6		3.7020	10.13	10.48	20.61	46.00	-25.39	AVG
7		12.1740	18.07	10.68	28.75	60.00	-31.25	QP
8		12.7980	8.00	10.67	18.67	50.00	-31.33	AVG
9		18.2420	17.86	10.60	28.46	60.00	-31.54	QP
10		18.2420	14.67	10.60	25.27	50.00	-24.73	AVG
11		29.2340	16.79	10.73	27.52	60.00	-32.48	QP
12		29.2340	11.65	10.73	22.38	50.00	-27.62	AVG



5.4 Radiated emissions

5.4.1 Limits

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
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note 1: the tighter limit applies at the band edges.

Note 2: the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

§ 15.35 (b) requirements:

When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

According to ANSI C63.10, the tests shall be performed in the frequency range shown in the following table:

Frequency range of measurements for unlicensed wireless device

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Frequency range of measurements for unlicensed wireless device with digital device

Highest frequency generated or used in the device or on which the device operates or tunes	Upper frequency range of measurement
Below 1.705 MHz	30 MHz
1.705 MHz to 108 MHz	1000 MHz
108 MHz to 500 MHz	2000 MHz
500 MHz to 1000 MHz	5000 MHz
	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Address: 101, No. 7, Zone2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



Test instrument setup

Frequency	Test receiver / Spectrum analyzer setting
9 kHz ~ 150 kHz	Quasi Peak / 200 Hz
150 kHz ~ 30 MHz	Quasi Peak / 9 kHz
30 MHz ~ 1 GHz	Quasi Peak / 120 kHz

5.4.2 Test Procedures

The EUT is placed on a non-conducting table 80cm above the ground plane for measurement below 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10-2013.

For measurement below 1 GHz, the resolution bandwidth is set as item 5.4.2.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned form 1 to 4m meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and horizontal positions.

Special requirements for 9 kHz to 30 MHz:

The lowest height of the magnetic antenna shall be 1 m above the ground

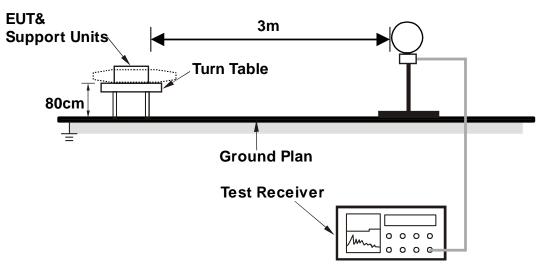
When the EUT contains a loop antenna that can only be placed in a vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, and then orthogonal to the axis. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

When the EUT contains a loop antenna that can be placed in a horizontal or vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, orthogonal to the axis, and then with the measurement antenna horizontal. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

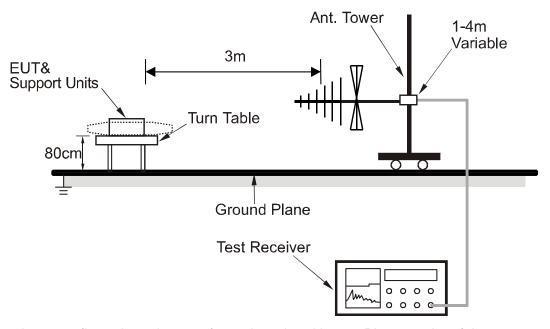


5.4.3 Test Setup

Below 30 MHz:



Below 1 GHz:



For the actual test configuration, please refer to the related item – Photographs of the test setup.

5.4.4 Test result

Calculation formula:

Measurement (dB μ V/m) = Reading Level (dB μ V) + Correct Factor (dB/m) Over (dB) = Measurement (dB μ V/m) – Limit (dB μ V/m)

Note: For 9 kHz - 30 MHz testing, all the required orthogonal orientations of the measurement loop antenna were performed for pre-scan, the maximum radiated transmissions (Site axis) were recorded.

105.47-28.27

AVG



Frequency 9 kHz ~ 150 kHz

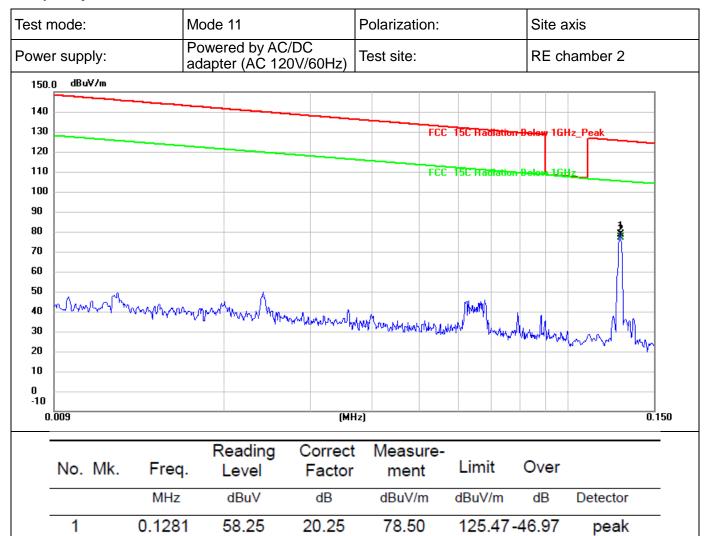
2

0.1281

56.95

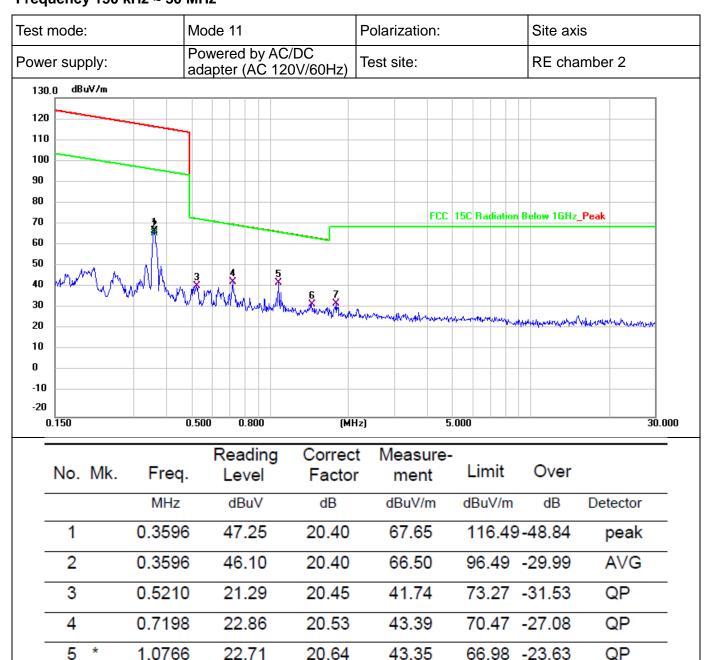
20.25

77.20





Frequency 150 kHz ~ 30 MHz



20.66

20.69

32.99

33.32

64.46 -31.47

69.50 -36.18

QΡ

QP

12.33

12.63

1.4409

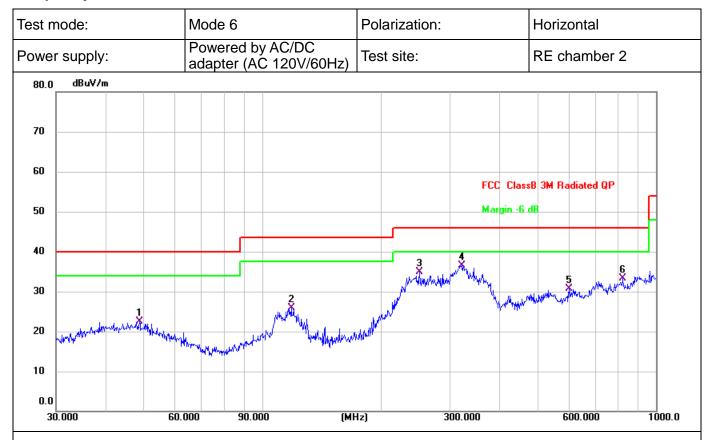
1.8000

6

7



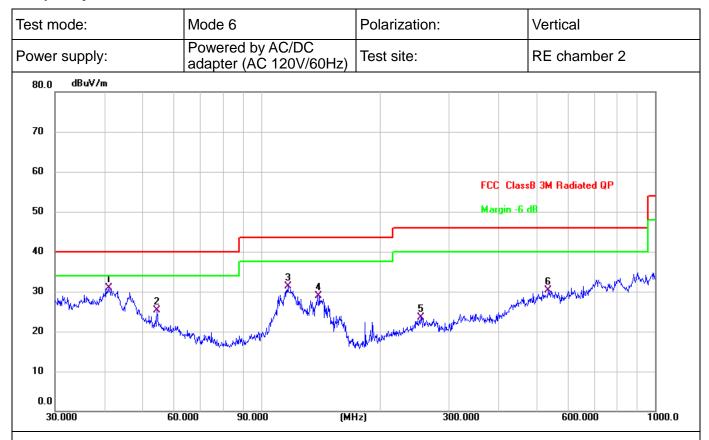
Frequency 30 MHz ~ 1 GHz



Mk.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	48.8427	28.44	-6.02	22.42	40.00	-17.58	QP
1	18.6012	34.26	-8.42	25.84	43.50	-17.66	QP
2	51.1802	40.15	-5.25	34.90	46.00	-11.10	QP
* 3	21.0605	40.42	-3.93	36.49	46.00	-9.51	QP
6	01.4265	27.69	3.10	30.79	46.00	-15.21	QP
8	21.7103	26.81	6.47	33.28	46.00	-12.72	QP
	1 2 * 3	MHz 48.8427 118.6012 251.1802	Mk. Freq. Level MHz dBuV 48.8427 28.44 118.6012 34.26 251.1802 40.15 * 321.0605 40.42 601.4265 27.69	Mk. Freq. Level Factor MHz dBuV dB 48.8427 28.44 -6.02 118.6012 34.26 -8.42 251.1802 40.15 -5.25 * 321.0605 40.42 -3.93 601.4265 27.69 3.10	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 48.8427 28.44 -6.02 22.42 118.6012 34.26 -8.42 25.84 251.1802 40.15 -5.25 34.90 * 321.0605 40.42 -3.93 36.49 601.4265 27.69 3.10 30.79	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 48.8427 28.44 -6.02 22.42 40.00 118.6012 34.26 -8.42 25.84 43.50 251.1802 40.15 -5.25 34.90 46.00 * 321.0605 40.42 -3.93 36.49 46.00 601.4265 27.69 3.10 30.79 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB 48.8427 28.44 -6.02 22.42 40.00 -17.58 118.6012 34.26 -8.42 25.84 43.50 -17.66 251.1802 40.15 -5.25 34.90 46.00 -11.10 * 321.0605 40.42 -3.93 36.49 46.00 -9.51 601.4265 27.69 3.10 30.79 46.00 -15.21



Frequency 30 MHz ~ 1 GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	41.1319	37.87	-7.06	30.81	40.00	-9.19	QP
2		54.4515	31.99	-6.59	25.40	40.00	-14.60	QP
3		116.9492	39.34	-7.96	31.38	43.50	-12.12	QP
4		139.3610	39.31	-10.32	28.99	43.50	-14.51	QP
5		254.7281	28.31	-4.73	23.58	46.00	-22.42	QP
6		535.7073	29.08	1.18	30.26	46.00	-15.74	QP

5.5 Occupied bandwidth test

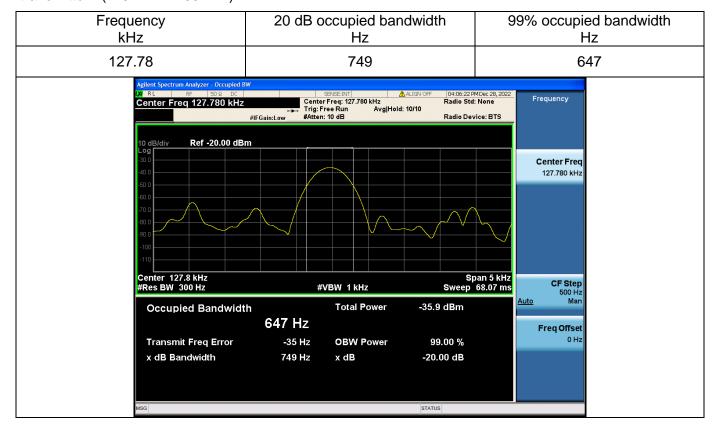
5.5.1 Test Procedures

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation.
- d) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement
- e) Set detection mode to peak and trace mode to max hold.
- f) Determine the "-xx dB down amplitude" using [(reference value) xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

5.5.2 Test Result

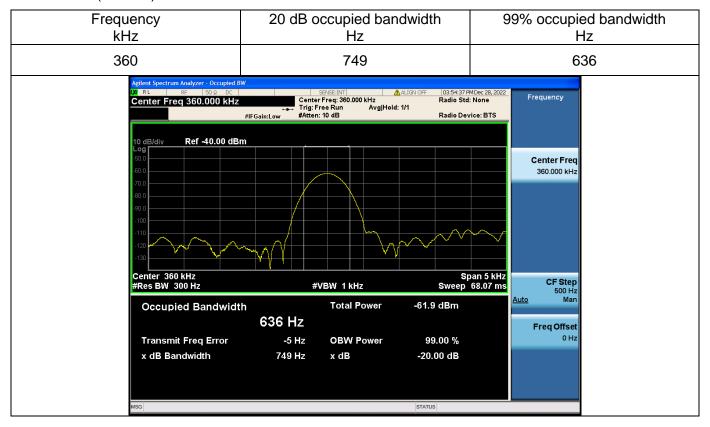
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

transmitter 1(115 kHz - 205 kHz):

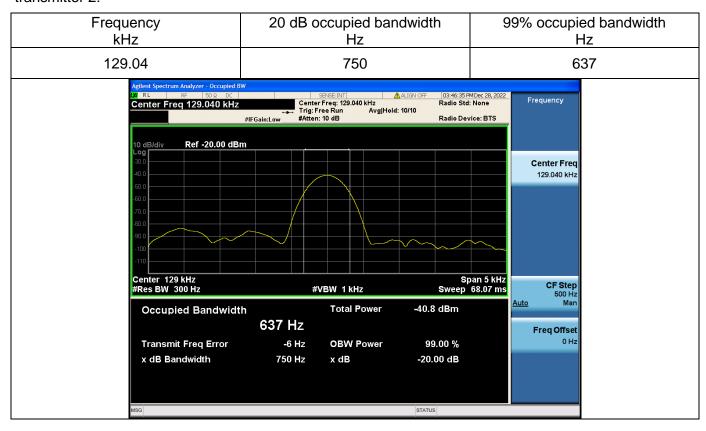




transmitter 1(360kHz):



transmitter 2:





Photographs of the test setup

See the Appendix – Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----

Address: 101, No. 7, Zone2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com