

Test Report

Report No.:	MTi220413007-16E1
Date of issue:	2022-06-09
Applicant:	Annex Products Pty Ltd
Product:	MAG WIRELESS CHARGER, WIRELESS CHARGER
Model(s):	QL-3954-M, QL-3954-W
FCC ID:	2AOU9-QLH2

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



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Test Result Certification						
Applicant:	Applicant: Annex Products Pty Ltd					
Address:	Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141 Australia					
Manufacturer:	Shenzhen Huagon Technology Co., Ltd					
Address:	306 3Floor An hongji Xingyao Industrial Park, No.38 Huaxing Road, Dalang Street, Longhua District, Shenzhen City China 518109					
Factory:	Shenzhen Huagon Technology Co., Ltd					
Address:	306 3Floor An hongji Xingyao Industrial Park, No.38 Huaxing Road, Dalang Street, Longhua District, Shenzhen City China 518109					
Product description	n					
Product name:	MAG WIRELESS CHARGER, WIRELESS CHARGER					
Trademark:	QUAD LOCK					
Model name:	QL-3954-M					
Serial Model:	QL-3954-W					
Standards:	FCC 47 CFR Part 15 Subpart C					
Test method:	ANSI C63.10-2013					
Date of Test						
Date of test:	2022-05-18 ~ 2022-06-08					
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:	MAG WIRELESS CHARGER, WIRELESS CHARGER
Name difference:	MAG WIRELESS CHARGER is the product name of the model QL-3954-M; WIRELESS CHARGER is the product name of the model QL-3954-W
Model name:	QL-3954-M
Series Model:	QL-3954-W
Model difference:	QL-3954-M uses magnets in the housing, whereas QL-3954-W is without magnets in the housing while using same electronics.
Electrical rating:	Input: DC 5V/3A, 9V/2A, 12V/1.5A Output: 5W, 7.5W, 10W, 15W
Accessories:	Cable: USB-A to USB-C cable 1.55m
Hardware version:	1.0
Software version:	1.0
Test sample number:	MTi220413007-16-S0001(QL-3954-M) MTi220413007-16-S0002(QL-3954-W)
RF specification:	
Operation frequency:	110.5 kHz – 220 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 Output(5W)
Mode 2	Wireless Output(7.5W)
Mode 3	Wireless Output(10W)
Mode 4	Wireless Output(15W)
Mode 5	Stand-by

The worst test mode of conducted emissions: Mode 3

The worst test mode of radiated emissions (9k-30MHz): Mode 4

The worst test mode of radiated emissions (30M-1GHz): Mode 3(QL-3954-M), Mode 2(QL-3954-W)



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		
Adapter	HW/-090200CHO /		Huizhou BYD Electronics Co., Ltd.		
Support cable list					
Description	Length (m)	From	То		
/	/	/	/		

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

1.5 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.

Address: 101, No. 7, Zone 2, 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. 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		

Note: N/A means not applicable.



3. Test Facilities and accreditations

3.1 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. 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



5. Test Results

5.1 Antenna requirements

15.203 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.

5.2 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

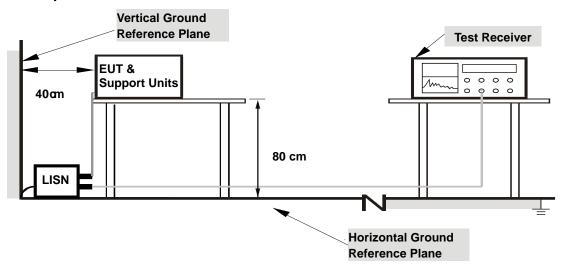
Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dBµV	Limit-Average dBµV
0.15 -0.5		66 to 56	56 to 46
0.5 -5	Average / 9 kHz	56	46
5 -30		60	50

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



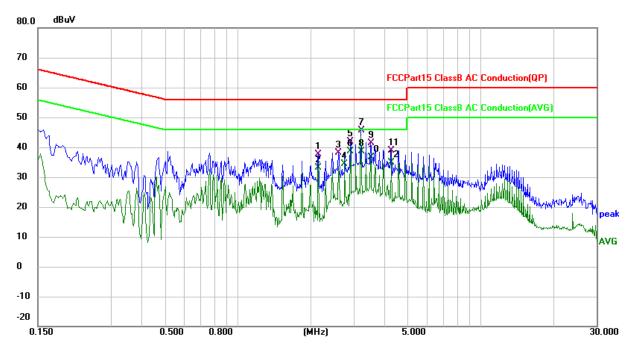
For the actual test configuration, please refer to the related item – Photographs of the test setup.

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)

Test mode:	Mode 3	Phase:	L
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	CE chamber 1

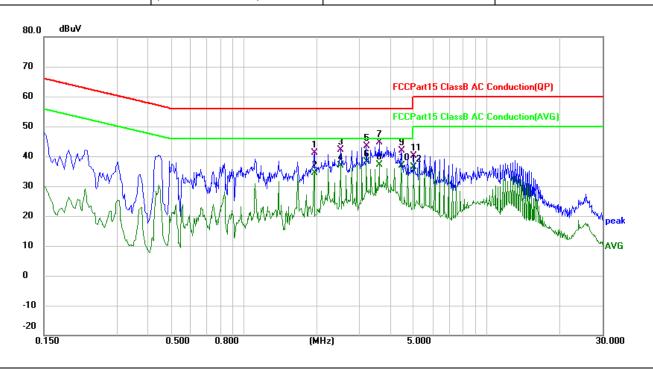


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		2.1459	21.90	15.72	37.62	56.00	-18.38	QP
2		2.1459	17.43	15.72	33.15	46.00	-12.85	AVG
3		2.6059	26.76	11.40	38.16	56.00	-17.84	QP
4		2.7580	22.99	11.39	34.38	46.00	-11.62	AVG
5		2.9100	30.43	11.38	41.81	56.00	-14.19	QP
6		2.9100	27.14	11.38	38.52	46.00	-7.48	AVG
7		3.2180	34.20	11.39	45.59	56.00	-10.41	QP
8	*	3.2180	27.31	11.39	38.70	46.00	-7.30	AVG
9		3.5260	29.90	11.41	41.31	56.00	-14.69	QP
10		3.5260	25.13	11.41	36.54	46.00	-9.46	AVG
11		4.2938	27.46	11.44	38.90	56.00	-17.10	QP
12		4.2938	23.50	11.44	34.94	46.00	-11.06	AVG



Test mode: Mode 3 Phase: N

Power supply: Power by AC/DC adapter (AC 120V/60Hz) Test site: CE chamber 1



No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	1.9500	25.79	15.29	41.08	56.00	-14.92	QP
2	1.9500	19.08	15.29	34.37	46.00	-11.63	AVG
3	2.5059	30.68	11.38	42.06	56.00	-13.94	QP
4	2.5059	25.45	11.38	36.83	46.00	-9.17	AVG
5	3.2020	31.91	11.37	43.28	56.00	-12.72	QP
6 *	3.2020	26.64	11.37	38.01	46.00	-7.99	AVG
7	3.6180	33.22	11.38	44.60	56.00	-11.40	QP
8	3.6180	25.78	11.38	37.16	46.00	-8.84	AVG
9	4.4540	30.51	11.39	41.90	56.00	-14.10	QP
10	4.4540	25.38	11.39	36.77	46.00	-9.23	AVG
11	5.0100	28.86	11.39	40.25	60.00	-19.75	QP
12	5.0100	25.07	11.39	36.46	50.00	-13.54	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

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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 blew 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10-2013.

For measurement blew 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

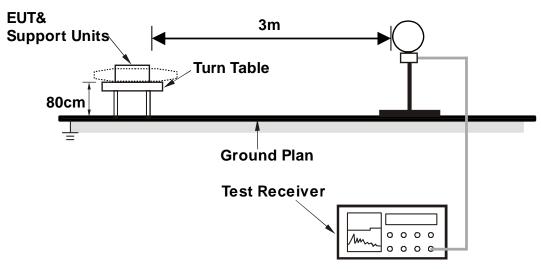
When the EUT contains a loop antenna that can only be placed in a vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, and then orthogonal to the axis. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

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.

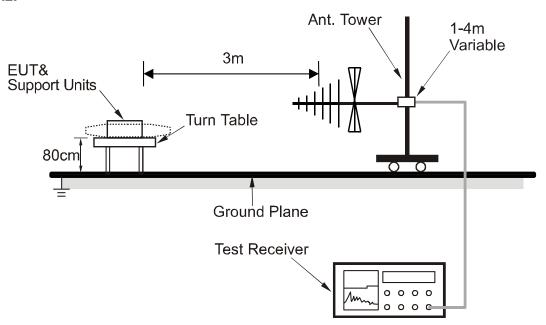


5.4.3 Test Setup

Blew 30 MHz:



Blew 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)

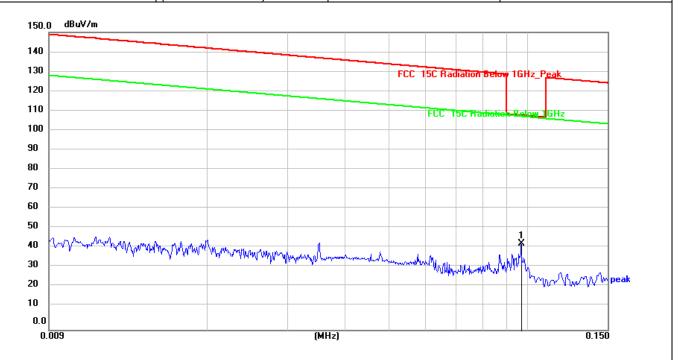
Note: For 9 kHz - 30 MHz testing, all the required orthogonal orientations of the measurement loop antenna were performed for pre-scan, the maximum radiated transmissions (Site axis) were recorded.



QL-3954-M:

Frequency 9 kHz ~ 150 kHz

Test mode:	Mode 4	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 1

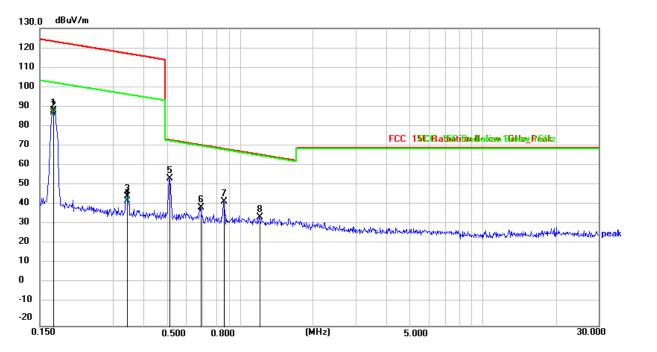


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	0.0970	21.63	21.97	43.60	107.87	-64.27	peak



Frequency 150 kHz ~ 30 MHz

Test mode:	Mode 4	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 1

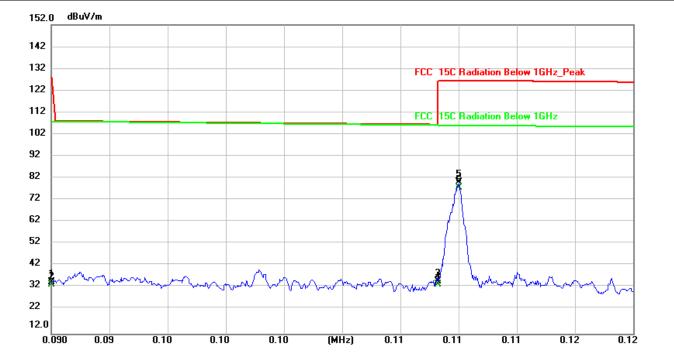


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.1703	66.44	21.96	88.40	123.00	-34.60	peak
2 *	0.1703	65.44	21.96	87.40	103.00	-15.60	AVG
3	0.3446	23.53	21.89	45.42	116.86	-71.44	peak
4	0.3446	21.31	21.89	43.20	96.86	-53.66	AVG
5	0.5128	32.82	21.68	54.50	73.41	-18.91	QP
6	0.6863	17.72	21.94	39.66	70.88	-31.22	QP
7	0.8573	20.43	22.21	42.64	68.95	-26.31	QP
8	1.2034	12.62	22.43	35.05	66.02	-30.97	QP



Band edge

Test mode:	Mode 4	Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 1



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.0900	15.02	20.60	35.62	108.50	-72.88	peak
2	0.0900	13.81	20.60	34.41	108.50	-74.09	AVG
3	0.1100	15.41	20.50	35.91	106.80	-70.89	peak
4	0.1100	14.22	20.50	34.72	106.80	-72.08	AVG
5	0.1110	60.38	20.49	80.87	126.72	-45.85	peak
6 *	0.1110	57.74	20.49	78.23	106.72	-28.49	AVG



QL-3954-W: Frequency 9 kHz ~ 150 kHz

0.0980

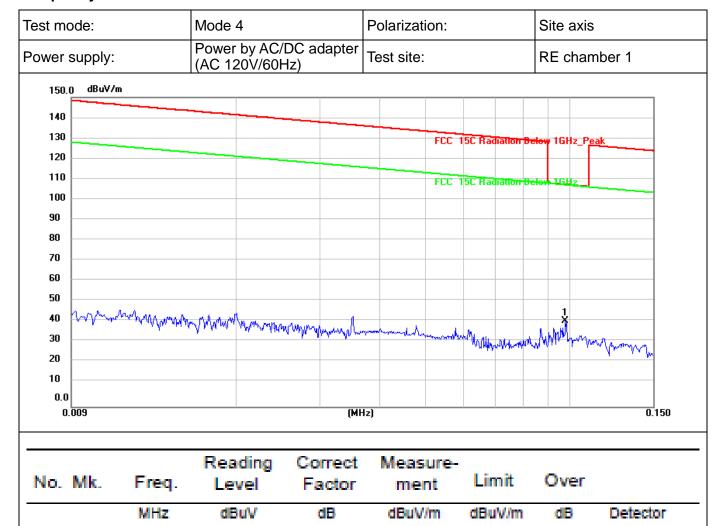
19.76

21.97

41.73

107.78 -66.05

peak



30.000

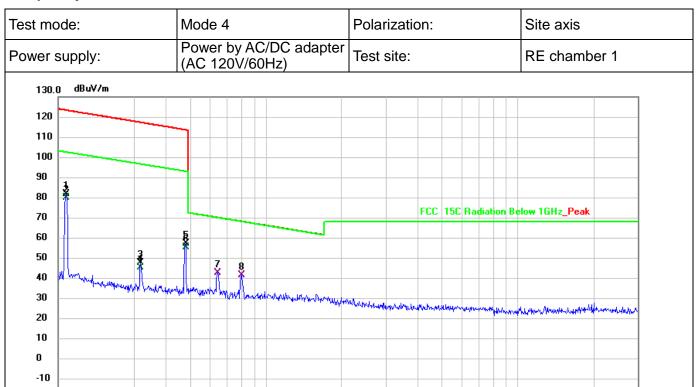


Frequency 150 kHz ~ 30 MHz

-20 0.150

0.500

0.800



(MHz)

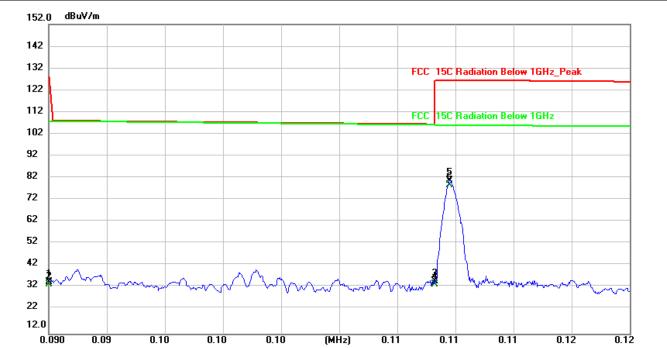
5.000

NO.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.1615	61.05	21.95	83.00	123.46	-40.46	peak
2	*	0.1615	59.28	21.95	81.23	103.46	-22.23	AVG
3		0.3183	27.57	21.92	49.49	117.55	-68.06	peak
4		0.3183	25.40	21.92	47.32	97.55	-50.23	AVG
5		0.4811	37.30	21.68	58.98	113.96	-54.98	peak
6		0.4811	35.28	21.68	56.96	93.96	-37.00	AVG
7		0.6439	22.96	21.88	44.84	71.43	-26.59	QP
8		0.8002	21.32	22.12	43.44	69.55	-26.11	QP



Band edge

Test mode:		Polarization:	Site axis
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 1

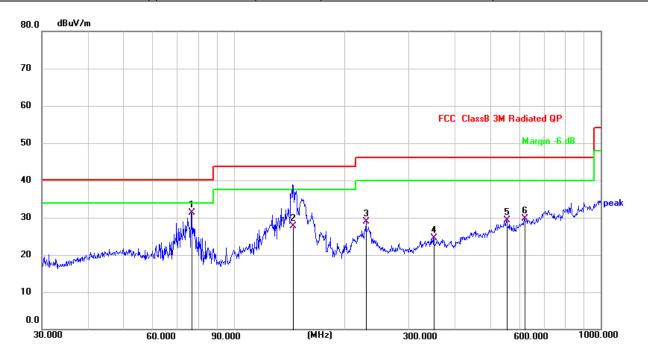


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.0900	15.02	20.60	35.62	108.50	-72.88	peak
2	0.0900	13.81	20.60	34.41	108.50	-74.09	AVG
3	0.1100	15.41	20.50	35.91	106.80	-70.89	peak
4	0.1100	14.22	20.50	34.72	106.80	-72.08	AVG
5	0.1107	60.87	20.50	81.37	126.74	-45.37	peak
6 *	0.1107	58.75	20.50	79.25	106.74	-27.49	AVG



QL-3954-M:

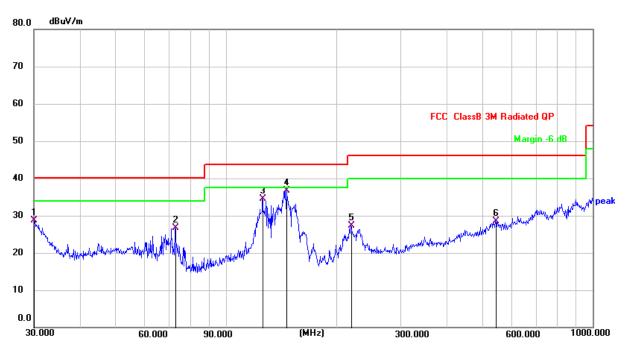
Test mode:	Mode 3	Polarization:	Horizontal
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	76.5121	41.65	-10.28	31.37	40.00	-8.63	QP
2		144.8418	37.87	-10.17	27.70	43.50	-15.80	QP
3		229.2931	33.92	-5.02	28.90	46.00	-17.10	QP
4		350.4768	27.03	-2.58	24.45	46.00	-21.55	QP
5		552.8832	27.67	1.58	29.25	46.00	-16.75	QP
6		618.5369	26.47	3.18	29.65	46.00	-16.35	QP



Test mode:	Mode 3	Polarization:	Vertical
Power supply:	Power by AC/DC adapter (AC 120V/60Hz)	Test site:	RE chamber 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		30.0000	38.02	-9.22	28.80	40.00	-11.20	QP
2		72.8466	36.43	-9.68	26.75	40.00	-13.25	QP
3		125.8864	43.53	-9.04	34.49	43.50	-9.01	QP
4	*	146.3735	46.61	-9.82	36.79	43.50	-6.71	QP
5		219.0753	32.43	-5.12	27.31	46.00	-18.69	QP
6		543.2742	27.04	1.45	28.49	46.00	-17.51	QP



QL-3954-W:

st mod	de:	Mode	2		Polarization:		Horizontal		
wer sı	upply:		r by AC/D0 20V/60Hz)		Test site:		RE chamber 1		
90.0	dBuV/m								
80									
70									
60						FCC Classi	B 3M Radiated QP		
50						Margin -6 d	IB		
40							6		
30			3 X	My My M	5		A CONTRACTOR OF THE PROPERTY O	Madedle	
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-10	000								

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		30.0000	34.04	-8.91	25.13	40.00	-14.87	QP
2		47.9940	28.33	-7.54	20.79	40.00	-19.21	QP
3		82.6482	36.22	-9.88	26.34	40.00	-13.66	QP
4		146.8877	40.69	-10.53	30.16	43.50	-13.34	QP
5		181.9202	38.09	-8.81	29.28	43.50	-14.22	QP
6	*	601.4265	39.09	0.14	39.23	46.00	-6.77	QP



st mod	de:	N	/lode 2			Polari	Polarization:			Vertical		
wer s	upply:	F (,	Power by AC/DC adapter (AC 120V/60Hz)			Test site:			RE chamber 1			
90.0	dBuV/m										_	
80												
70												
60								FCC Class	3M Radiate	d QP		
50								Margin -6 d	В		_	
40					4	5			6			
30	2 u ^{MV/M} Mi. iN	V.,	3			/			handalana ka	man had	ship	
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-10	000	60.0		90.000) (MF		300.00		600.00		1000.0	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		30.0000	40.07	-8.91	31.16	40.00	-8.84	QP
2		47.9940	36.87	-7.54	29.33	40.00	-10.67	QP
3		82.9385	39.13	-9.84	29.29	40.00	-10.71	QP
4		156.4578	43.84	-10.03	33.81	43.50	-9.69	QP
5	*	178.7584	45.50	-8.96	36.54	43.50	-6.96	QP
6	(601.4265	34.42	0.14	34.56	46.00	-11.44	QP

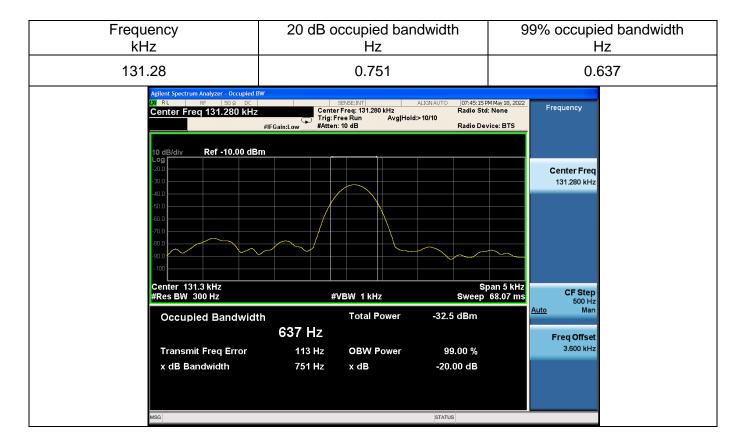
5.5 Occupied bandwidth test

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.





Photographs of the test setup

See the Appendix – Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----