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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: GLEMO10040092701

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FCCID: WYNWINCHANCE-601

TEST REPORT

Application No.:	GLEMO100400927RF				
Applicant: Winchance Solar (Fujian) Technology Co., Ltd					
Equipment Under Test	(EUT):				
EUT Name:	Solar Speaker Docking Station				
Item No.:	MU-601				
FCC ID:	WYNWINCHANCE-601				
Radio Function:	Wireless audio transmitter				
Standards:	FCC PART 15 Subpart C: 2009				
Date of Receipt:	2010-04-15				
Date of Test:	2010-04-19 to 2010-04-26				
Date of Issue:	2010-05-31				
Test Result :	Pass*				

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

Authorized Signature:

Stephen Guo

Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record									
Version	Chapter	Date	Modifier	Remark					
01		2010-05-31		Original					

Authorized for issue by:		
Tested By	(Angel Liu) /Signature	2010-04-19 to 2010-04-26 Date
Prepared By	(Angel Liu) /Signature	2010-05-17 Date
Approved By	(Jeffrey Chen) /Signature	2010-05-31 Date



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3 Test Summary

TEST	TEST REQUIREMENT	STANADARD PARAGRAPH	RESULT
Field Strength of Fundamental	FCC PART 15 : 2009	Section 15.249 (a)	PASS
Field Strength of	FCC PART 15 : 2009	Section 15.249 (a)	PASS
Unwanted Emissions	FGG FART 15 . 2009	Section 15.249 (d)	FAGG
Occupied Bandwidth	FCC PART 15 : 2009	Section 15.215(c)	PASS
Band Edges	FCC PART 15 : 2009	Section 15.249 (d)	PASS
Conducted Emission	FCC PART 15 : 2009	Section 15.207	PASS

Tx: In this whole report Tx (or tx) means Transmitter.

Rx:In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.



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5 General Information

5.1 Client Information

Applicant's Name: Winchance Solar (Fujian) Technology Co., Ltd

Applicant Address: Jiangnan New Hi-Tech Electronic Information Industrial Park, Quanzhou,

Fujian, China

5.2 General Description of E.U.T.

Product Name: Solar Speaker Docking Station

Model: MU-601

Power Supply: For transmitter: AC:100-240V 50Hz/60Hz 0.3A or

DC 3.2V (battery model: GSP 094050 1000mAh)

For remote controller: DC 3V (1X"CR2032E" button cell)

Adaptor: Model: BI05-050100-BdU

Input: AC 100-240V 50/60Hz 0.3A

Output: DC 5V 1A

Power Cord: 2 x 0.8m unscreened cable

5.3 Details of E.U.T.

Type of Modulation FSK Channel Number: 2

Channel Frequency 926.1MHz, 927.4MHz
Antenna Type Integrate Antenna

5.4 Description of Support Units

The EUT was tested as an independent unit.

5.5 Test Facility

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

NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

• FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.



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5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

5.7 Standards Applicable for Testing

The customer requested FCC tests for the EUT.

The standard used was FCC PART 15, SUBPART C (2009) section 15.249.

5.6 Other Information Requested by the Customer

None.



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6 Equipment Used during Test

RE in Chamber									
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date			
					(YYYY-MM-DD)	(YYYY-MM-DD)			
EMC0525	Compact Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	N/A	N/A			
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2010-01-25	2011-01-25			
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	10036	2009-07-18	2010-07-18			
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A			
EMC0514	Coaxial cable	SGS	N/A	N/A	2009-12-09	2010-12-09			
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2009-12-20	2010-12-20			
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2009-12-20	2010-12-20			
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	2009-09-15	2010-09-15			
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	2009-12-05	2010-12-05			
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2010-01-25	2011-01-25			
EMC0049	Amplifier	Agilent	8447D	2944A10862	2010-04-21	2011-04-21			
EMC0075	310N Amplifier	Sonama	310N	272683	2009-10-26	2010-10-26			
EMC0523	Active Loop Antenna	EMCO	6502	42963	2009-11-17	2010-11-17			
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	2009-06-02	2010-06-02			

General use	General used equipment									
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date				
					(YYYY-MM-DD)	(YYYY-MM-DD)				
EMC0006	DMM	Fluke	73	70681569	2009-12-16	2010-12-16				
EMC0007	DMM	Fluke	73	70671122	2009-12-16	2010-12-16				



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7 Test Results

7.1 E.U.T. Operation

Input voltage: 120Vac 60Hz

Operating Environment:

Temperature: 22°C

Humidity: 56% RH

Atmospheric Pressure: 1005mbar

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or

receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band

specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

The program used to control the EUT for staying in continuous transmitting mode supplied by manufacturer.

Channel lowest (926.1MHz) and highest (927.4MHz) are chosen for testing.

Test the EUT in transmitting mode.



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7.2 Test Procedure & Measurement Data

7.2.1 Field Strength of Fundamental& Field Strength of Unwanted Emissions

Test Requirement: FCC Part15 C Section 15.249(a) & (d)

Test Method: Based on FCC Part15 C Section 15.249 & ANSI C63.4:2003

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 10GHz for transmitting mode.

Test instrumentation resolution bandwidth

120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 MHz - 10GHz)

Operation: Pretest the EUT in AUX in mode and Ipod mode, found the AUX in was the

worse case and reported it.

Receive antenna scan height 1 - 4 m, polarization Vertical/ Horizontal, a turntable rotate through 360⁰ in the horizontal plane and it is used to support

the test sample at 0.8m above the ground plane.

Requirements:

FCC Part 15.249(a)

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics
(MHz)	(dBuV/m @ 3m)	(dBuV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

FCC Part 15.249(d)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Remark:

The fundamental frequency rang is in the frequency band of the EUT is 902MHz ~ 928MHz.

The limit for Quasi-Peak field strength dBuv/m for the fundamental frequency = 94.0 dBμV/m.

No fundamental is allowed in the restricted bands.

The limit for average field strength $dB\mu V/m$ for the harmonics = 54.0 $dB\mu V/m$.

The limit for peak field strength $dB\mu V/m$ for the harmonics = 74.0 $dB\mu V/m$.

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or 54.0 dB μ V/m in 15.209. Here the limit for the other emission is 54.0 dB μ V/m.



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Test Procedure:

1)9K to 30MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4:2003 section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specied 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.

2)30MHz to 1GHz emissions:

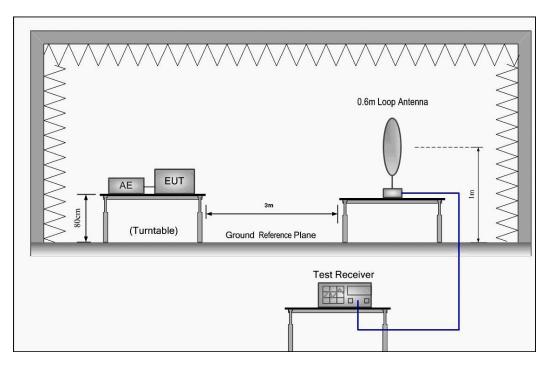
For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.4:2003. The measurement is performed with the EUT rotated 360°, the antenna height scaned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3)1GHz to 40GHz emissions:

For testing perfomed with the horn antenna, testing was perfomed in accordance to ANSI C63.4:2003. The measurement is performed with the EUT rotated 360°, the antenna height scaned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

Test Configuration:

1) 9K to 30MHz emissions:



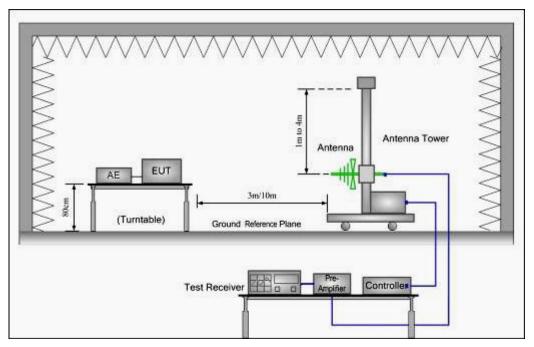


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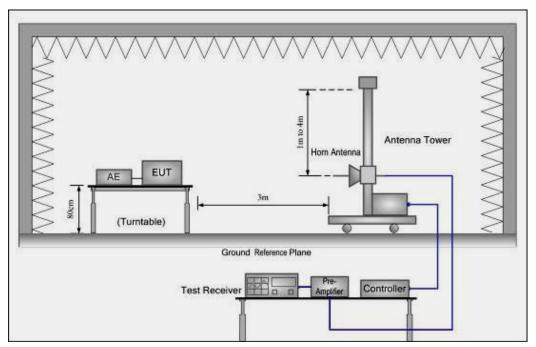
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2) 30MHz to 1GHz emissions:



3) 1GHz to 40GHz emissions:



The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier . The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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The following test results were performed on the Host:

1.Test in Channel lowest (926.1MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
926.1	84.04	20.56	2.70	24.94	82.36	94.00	-10.64	QP
1852.6	59.24	26.91	3.83	37.20	52.78	74.00	-21.22	Peak
1852.6	57.35	26.91	3.83	37.20	50.89	54.00	-3.11	Average
462.62	44.41	16.45	1.90	25.30	37.46	46.00	-8.54	QP

(b) Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
926.1	83.34	20.56	2.7 0	24.94	81.66	94.00	-11.34	QP
1852.6	57.45	26.91	3.83	37.20	50.99	74.00	-27.09	Peak
1852.6	55.63	26.91	3.83	37.20	49.17	54.00	-4.83	Average
462.62	43.30	16.45	1.90	25.30	36.35	46.0 0	-9.65	QP



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2. Test in Channel highest (927.4MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
927.4	82.84	20.56	2.7	24.98	81.12	94.00	-11.88	QP
1854.8	53.68	26.84	3.83	37.27	47.08	74.0	-26.92	Peak
1854.8	51.71	26.84	3.83	37.27	45.11	54.0	-8.89	Average
463.28	45.84	16.48	1.90	25.28	38.94	46.0	-7.06	QP

(b) Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
927.4	83.98	20.56	2.7	24.98	82.26	94.00	-10.74	QP
1854.8	53.22	26.84	3.83	37.27	46.62	74.0	-27.38	Peak
1854.8	51.03	26.84	3.83	37.27	44.43	54.0	-9.57	Average
463.28	46.34	16.48	1.90	25.28	39.44	46.0	-6.56	QP

Remark:

- 1). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, 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.
- 2) Sweep from 30MHz to 10GHz, find the max radiated emissions and record it, when the emissions are too weak to be detected, it will not be reported.

TEST RESULTS: The unit does meet the FCC requirements.



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7.2.2 Occupied Bandwidth & Band Edge

Test Requirement: FCC Part 15 C Section 15.249

Test Method: ANSI C63.4:2003 and FCC Part 2.1049

Operation within the band 902-928MHz

Requirements: 15.249 (d) Emissions radiated outside of the specified frequency bands,

except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section

15.209, whichever is the lesser attenuation.

Method of A small sample of the transmitter output was fed into the Spectrum

measurement: Analyzer and the attached plot was taken.

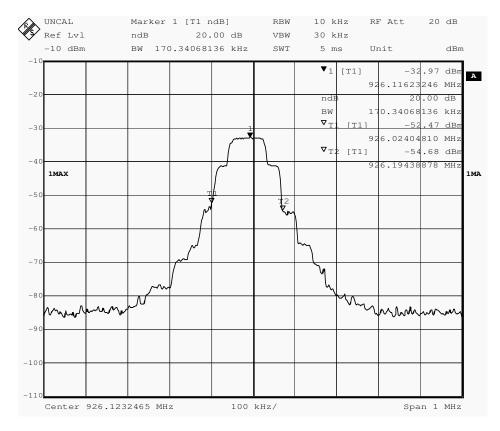
Operation: Pretest the EUT in AUX in mode and Ipod mode, found the AUX in was the

worse case and reported it.

For Controller:

The occupied bandwidth as below:

Lowest Channel:926.1MHz:



The low frequency is 926.02404810MHz, The high frequency is 926.19438878MHz, Within the band 902MHz to 928MHz.

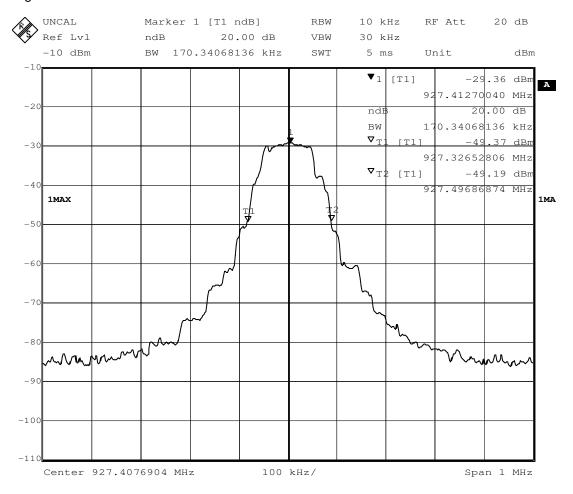


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Highest Channel:927.4MHz



The low frequency is 927.32652806MHz, The high frequency is 927.49686874MHz, Within the band 902MHz to 928MHz.



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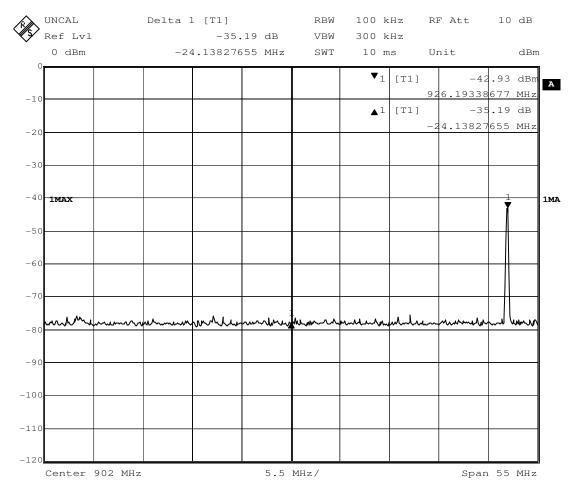
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The Band Edge Emission as below:

Lowest Band Edge 902MHz

Detector mode: Peak



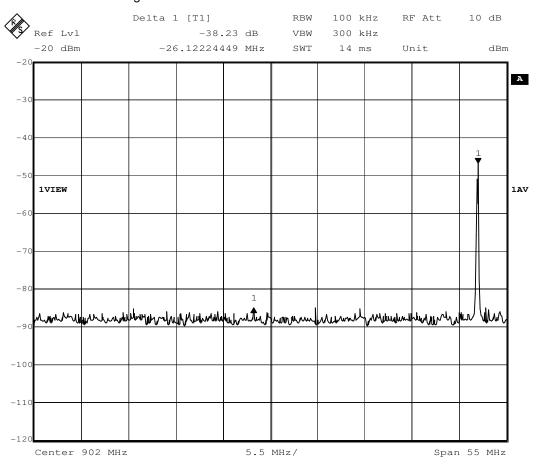


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Detector mode: Average



For 902MHz bandedge checked with 926.1MHz frequency operated, the delta shown at the plots are -35.19dB for peak detector mode and -38.23dB for Average detector mode.

With the peak value 83.26BuV/m and average value at 80.12dBuV/m for the fundamental, the spurious emission level at 902MHz were 48.07dBuV/m for peak and 41.89dBuV/m for average.



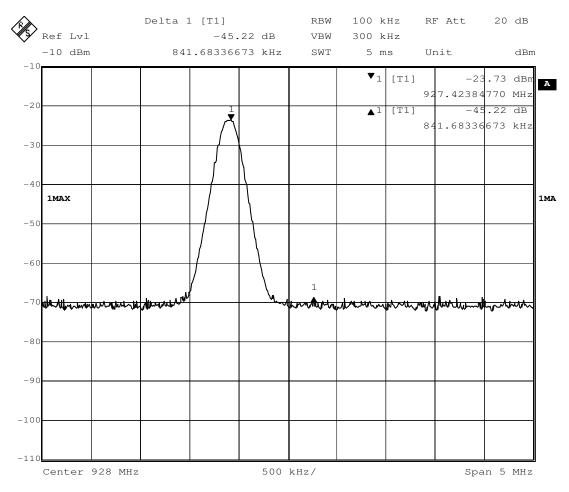
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Highest Band Edge 928MHz

Detector mode: Peak



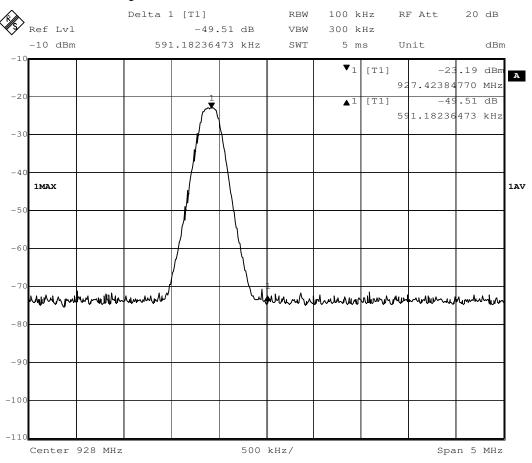


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Detector mode: Average



For 928MHz band edge checked with 927.4MHz frequency operated, the delta shown at the plots are -45.22dB for peak detector mode and -49.51dB for Average detector mode.

With the peak value 83.66dBuV/m and average value at 80.35dBuV/m for the fundamental, the spurious emission level at 928MHz were 38.44dBuV/m for peak and 30.84dBuV/m for average.

The test result for the Emissions radiated outside of the specified frequency band, please refer to the section 7.2.1 of this report.

The results: The unit does meet the FCC requirements.



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7.2.3 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15.207

Test Method: ANSI C63.4:2003

Frequency Range: 150KHz to 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

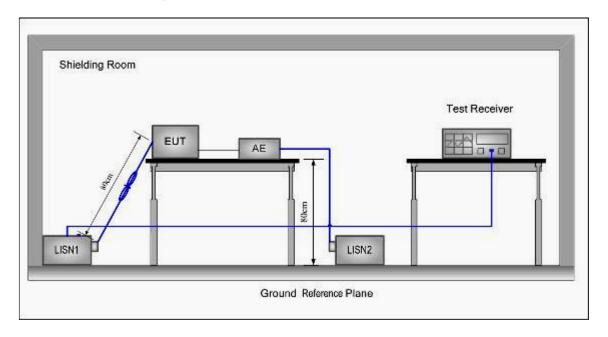
Operating Environment:

Temperature: 20.0 °C Humidity: 50 % RH Atmospheric Pressure: 1005 mbar

EUT Operation: Test the EUT in transmitting mode. Pretest the EUT in AUX in mode and Ipod mode,

found the AUX in was the worse case and reported it.

Plan View of Test Setup





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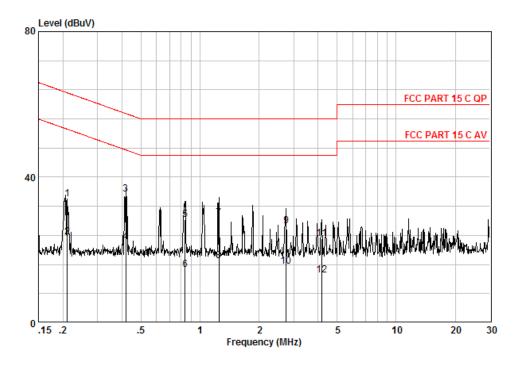
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

1. The data for Adapter:

Live Line:

Peak Scan:



Freq			LISN Factor		Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.210 0.419 0.419 0.839 0.839 1.249	24.24 13.78 25.42 12.41 18.52 4.77 18.96 7.30 16.74	0.00 0.00 0.00 0.00 0.00 0.01	9.93 9.93 9.83 9.83 9.78	23.65 35.35 22.34 28.35 14.60 28.75 17.09	53.20 57.46 47.46 56.00 46.00 56.00 46.00	-29.55 -22.11 -25.12 -27.65 -31.40 -27.25 -28.91	AVERAGE QP AVERAGE QP AVERAGE QP AVERAGE QP AVERAGE
4.180	5.67 13.24 3.37	0.06	9.70	23.00	56.00	-33.00	AVERAGE QP AVERAGE



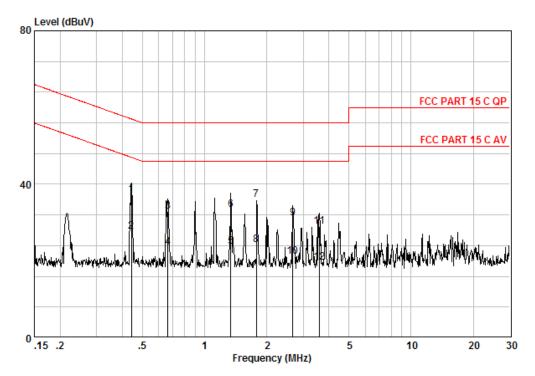
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Neutral Line

Peak Scan:



-	Read	Cable			Limit	Over	D
rreq	revel	Loss	Factor	rever	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.442	27.28	0.00	9.94	37.22	57.02	-19.80	QP
0.442	17.74	0.00	9.94	27.68	47.02	-19.34	AVERAGE
0.665	23.12	0.00	9.88	33.00	56.00	-23.00	QP
0.665	13.74	0.00	9.88	23.62	46.00	-22.38	AVERAGE
1.338	13.89	0.01	9.77	23.68	46.00	-22.32	AVERAGE
1.338	23.54	0.01	9.77	33.33	56.00	-22.67	QP
1.782	26.24	0.03	9.75	36.02	56.00	-19.98	QP
1.782	14.39	0.03	9.75	24.17	46.00	-21.83	AVERAGE
2.678	21.48	0.04	9.73	31.25	56.00	-24.75	QP
2.678	11.31	0.04	9.73	21.08	46.00	-24.92	AVERAGE
3.584	19.26	0.06	9.71	29.03	56.00	-26.97	QP
3.584	9.74	0.06	9.71	19.51	46.00	-26.49	AVERAGE



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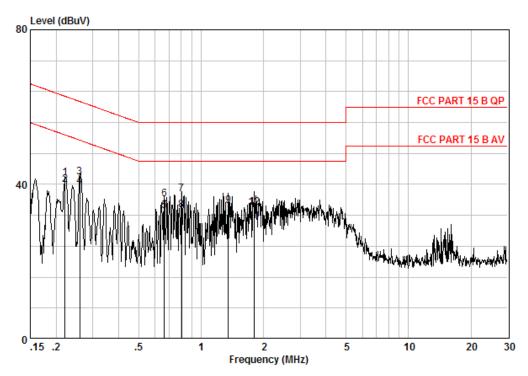
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1. The data for Connected PC

Live Line:

Peak Scan:



Freq	Read Level	Cable Loss	LISN Factor		Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.221 0.260 0.260 0.665 0.665 0.804	31.84 29.92 32.00 29.62 23.22 26.32 27.58 23.60 24.74	0.00 0.00 0.00 0.00 0.00	9.89 9.88 9.88 9.84 9.84	39.79 41.89 39.51 33.10	52.79 61.42 51.42 46.00 56.00 56.00 46.00	-13.00 -19.54 -11.92 -12.90 -19.80 -18.58	AVERAGE QP AVERAGE AVERAGE QP QP AVERAGE
1.810	20.98 20.43 24.30		9.75		46.00		AVERAGE AVERAGE QP

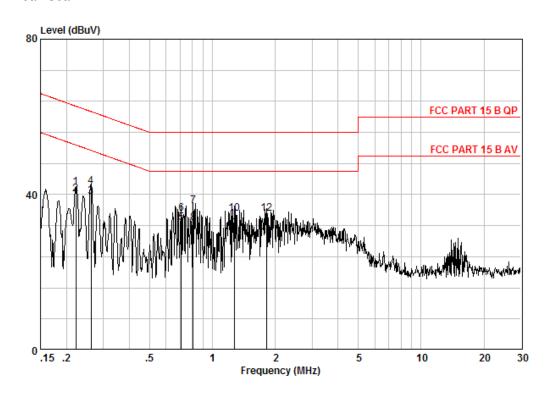


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Neutral Line Peak Scan:



Freq	Read Level	Cable Loss	LISN Factor		Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.222	31.92	0.00	9.89	41.81	62.74	-20.94	QP
0.222	30.13	0.00	9.89	40.02	52.74	-12.73	AVERAGE
0.262	29.47	0.00	9.90	39.37	51.38	-12.01	AVERAGE
0.262	32.08	0.00	9.90	41.98	61.38	-19.40	QP
0.708	22.91	0.00	9.88	32.79	46.00	-13.21	AVERAGE
0.708	25.12	0.00	9.88	35.00	56.00	-21.00	QP
0.809	27.16	0.00	9.86	37.02	56.00	-18.98	QP
0.809	22.91	0.00	9.86	32.77	46.00	-13.23	AVERAGE
1.269	21.27	0.01	9.80	31.08	46.00	-14.92	AVERAGE
1.269	25.34	0.01	9.80	35.15	56.00	-20.85	QP
1.819	19.27	0.03	9.78	29.08	46.00	-16.92	AVERAGE
1.819	25.30	0.03	9.78	35.11	56.00	-20.89	QP