

FCC REPORT

Applicant: SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD

Address of Applicant: 517 Room F building, Taoyuan Road No.1, Nanshan district,
Shenzhen, China

Equipment Under Test (EUT)

Product Name: MAG II

Model No.: MCJB21PA, MCJB21PX(X=A~Z)

FCC ID: YPWMCJB21PA

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2011

Date of sample receipt: 14 Sep., 2012

Date of Test: 17 Sep.,to 08 Oct 2012

Date of report issued: 10 Oct., 2012

Test Result : PASS *

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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.

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2 Version

Version No.	Date	Description
00	10 Oct., 2012	Original

Prepared By:

Joe. Zhou

Project Engineer

Date:

10 Oct., 2012

Check By:

Bruce Zhang

Reviewer

Date:

10 Oct., 2012

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT comply with the essential requirements in the standard.

N/A: Not application for battery device.

5 General Information

5.1 Client Information

Applicant:	SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD
Address of Applicant:	517 Room F building, Taoyuan Road No.1, Nanshan district, Shenzhen, China
Manufacturer:	SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD
Address of Manufacturer:	517 Room F building, Taoyuan Road No.1, Nanshan district, Shenzhen, China
Factory:	SUNUP MECHA-ELECTRONIC EQUIPMENT CO.,LTD
Address of Factory:	517 Room F building, Taoyuan Road No.1, Nanshan district, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	MAG II
Model No.:	MCJB21PA, MCJB21PX(X=A~Z)
Operation Frequency:	2403MHz to 2480MHz
Channel numbers:	78
Modulation type:	GFSK
Antenna Type:	Integrated PCB antenna
Antenna gain:	0dBi
Power supply:	4* 1.5 V "AA" Battery
Remark:	Only the model No. MCJB21PA was tested , MCJB21PA and MCJB21PX(X=A~Z) were identical inside, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, with only difference being the model name for the marketing requirement, MCJB21PX(X=A~Z, X: delegate different sales territory).

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation.		
Pre-Test Mode: (lowest channel=2403MHz)			
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	83.62	83.42	84.61
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Z axis (see the test setup photo)			

5.4 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC —Registration No.: 817957 China Certification & Inspection Services Co., Ltd., Shenzhen 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 817957, February 27, 2012 ● Industry Canada (IC) The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.5 Test Location

All tests were performed at:
<p>China Certification & Inspection Services Co., Ltd. Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China Tel: 0755-23118282 Fax: 0755-23116366</p>

5.6 Other Information Requested by the Customer

None.

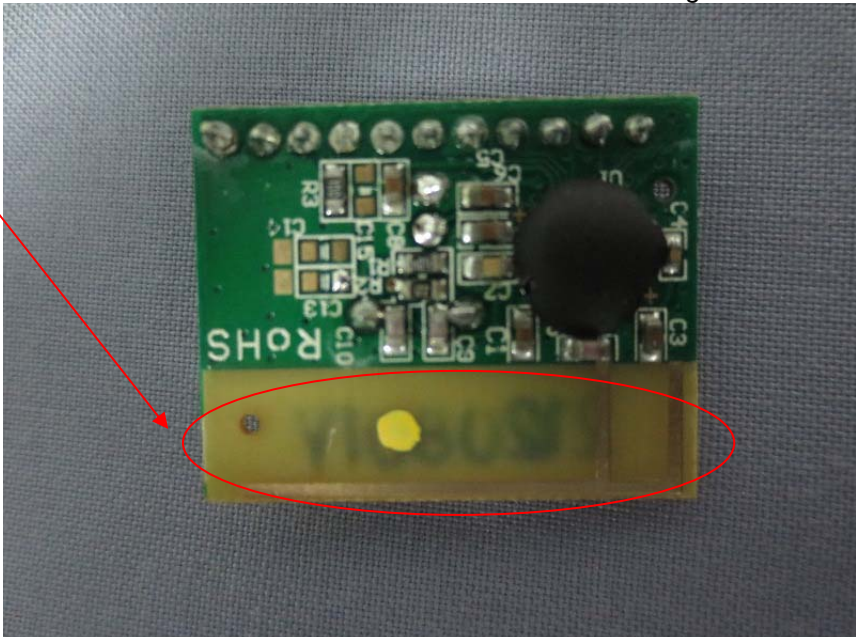
5.7 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	Aug. 09 2012	Aug. 09 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	June 16 2012	June 16 2013
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 09 2012	June 09 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	June 09 2012	June 09 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Mar. 01 2012	Mar. 01 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Mar. 01 2012	Mar. 01 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Mar. 01 2012	Mar. 01 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Mar. 01 2012	Mar. 01 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Mar. 01 2012	Mar. 01 2013
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Aug. 03 2012	Aug. 03 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	Aug. 05 2012	Aug. 05 2013
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	June 22 2012	June 22 2013
14	EMI Test Receiver	Rohde & Schwarz	ECSI	CCIS0002	June16 2012	June 16 2013
15	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
16	Coaxial Cable	CCIS	N/A	CCIS0095	Mar. 01 2012	Mar. 01 2013
17	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2012	Mar. 31 2013
18	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2012	Mar. 29 2013

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 09 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2012	Apr 01 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2012	Apr 01 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Apr. 01 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

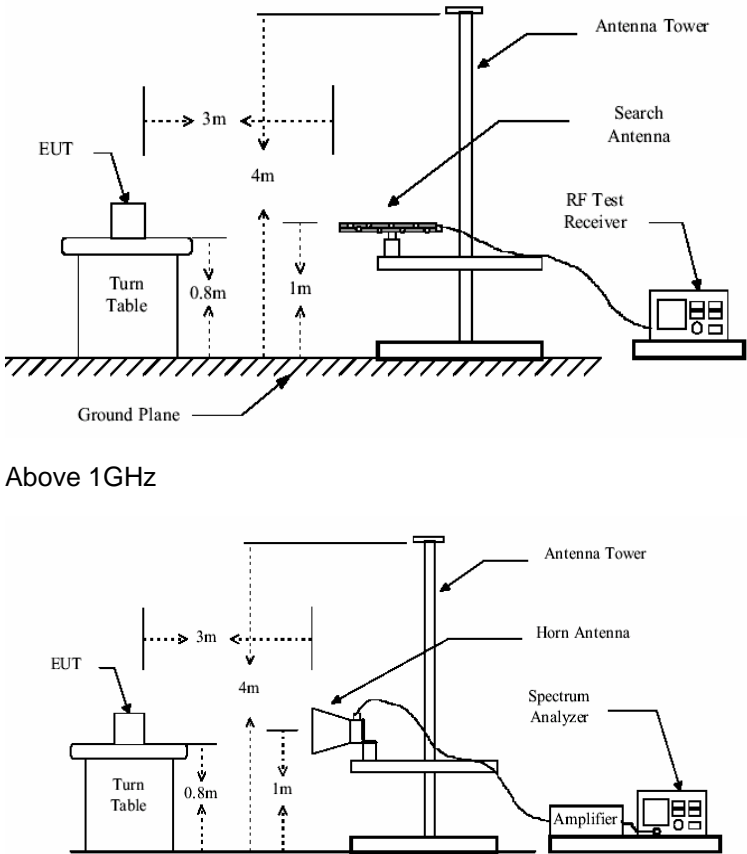
6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement: <i>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, 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.</i></p>	
E.U.T Antenna:	
<p>The antenna is PCB antenna which cannot detachable . The best case gain of the antenna is 0dBi.</p>	
<div style="display: flex; align-items: center;"> <div style="border: 1px solid red; padding: 5px; margin-right: 10px;">Antenna</div>  </div>	

6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249 and 15.209				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 25000MHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Limit: (band edge)	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.				
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. 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.</div> <div>4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. 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.</div>				
Test setup:	Below 1GHz				

	 <p>Above 1GHz</p>
Test Instruments:	Refer to section 5.7
Test mode:	Refer to section 5.3
Test results:	Passed

Measurement Data

6.2.1 Field Strength Of The Fundamental Signal

Peak value:

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)	Polarization
2403.00	79.44	27.54	3.83	30.20	80.61	114.00	-33.39	Horizontal
2403.00	83.44	27.54	3.83	30.20	84.61	114.00	-29.39	Vertical
2441.00	78.83	27.46	3.85	30.40	79.74	114.00	-34.26	Horizontal
2441.00	82.52	27.46	3.85	30.40	83.43	114.00	-30.57	Vertical
2480.00	81.83	27.52	3.89	30.60	82.64	114.00	-31.36	Horizontal
2480.00	83.70	27.52	3.89	30.60	84.51	114.00	-29.49	Vertical

Average value:

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)	Polarization
2403.00	75.79	27.54	3.83	30.20	76.96	94.00	-17.04	Horizontal
2403.00	78.68	27.54	3.83	30.20	79.85	94.00	-14.15	Vertical
2441.00	73.38	27.46	3.85	30.40	74.29	94.00	-19.71	Horizontal
2441.00	78.48	27.46	3.85	30.40	79.39	94.00	-14.61	Vertical
2480.00	76.00	27.52	3.89	30.60	76.81	94.00	-17.19	Horizontal
2480.00	79.00	27.52	3.89	30.60	79.81	94.00	-14.19	Vertical

6.2.2 Spurious Emissions

30MHz~1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
131.76	36.46	8.82	2.30	29.50	18.08	43.50	-25.42	Vertical
191.75	43.56	10.56	2.81	29.83	27.10	43.50	-16.40	Vertical
239.99	41.21	12.09	2.82	29.64	26.48	46.00	-19.52	Vertical
383.93	37.70	14.68	3.09	29.83	25.64	46.00	-20.36	Vertical
125.13	52.68	9.70	2.22	29.62	34.98	43.50	-8.52	Vertical
191.75	55.49	10.56	2.81	29.83	39.03	43.50	-4.47	Horizontal
239.99	53.89	12.09	2.82	29.64	39.16	46.00	-6.84	Horizontal
287.99	49.94	12.84	2.91	29.47	36.22	46.00	-9.78	Horizontal
383.93	47.74	14.68	3.09	29.83	35.68	46.00	-10.32	Horizontal
752.74	42.75	19.48	4.36	30.49	36.10	46.00	-9.90	Horizontal

Above 1GHz

Test channel:	Lowest	Level:	Peak
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4806.00	46.66	31.78	5.32	24.09	59.67	74.00	-14.33	Vertical
7209.00	42.55	36.15	6.87	26.38	59.19	74.00	-14.81	Vertical
9612.00	37.76	37.95	8.94	25.40	59.25	74.00	-14.75	Vertical
4806.00	44.56	31.78	5.32	24.09	57.57	74.00	-16.43	Horizontal
7209.00	37.42	36.15	6.87	26.38	54.06	74.00	-19.94	Horizontal
9612.00	28.65	37.95	8.94	25.40	50.14	74.00	-23.86	Horizontal

Test channel:	Lowest	Level:	Average
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4806.00	31.55	31.78	5.32	24.09	44.56	54.00	-9.44	Vertical
7209.00	29.43	36.15	6.87	26.38	46.07	54.00	-7.93	Vertical
9612.00	21.55	37.95	8.94	25.40	43.04	54.00	-10.96	Vertical
4806.00	35.44	31.78	5.32	24.09	48.45	54.00	-5.55	Horizontal
7209.00	17.55	36.15	6.87	26.38	34.19	54.00	-19.81	Horizontal
9612.00	15.56	37.95	8.94	25.40	37.05	54.00	-16.95	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:	Middle	Level:	Peak
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	46.66	31.85	5.40	24.01	59.90	74.00	-14.10	Vertical
7323.00	42.55	36.37	6.91	26.62	59.21	74.00	-14.79	Vertical
9764.00	37.76	38.35	9.01	25.29	59.83	74.00	-14.17	Vertical
4882.00	44.56	31.85	5.40	24.01	57.80	74.00	-16.20	Horizontal
7323.00	37.45	36.37	6.91	26.62	54.11	74.00	-19.89	Horizontal
9764.00	28.65	38.35	9.01	25.29	50.72	74.00	-23.28	Horizontal

Test channel:	Middle	Level:	Average
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	31.55	31.85	5.40	24.01	44.79	54.00	-9.21	Vertical
7323.00	29.46	36.37	6.91	26.62	46.12	54.00	-7.88	Vertical
9764.00	21.55	38.35	9.01	25.29	43.62	54.00	-10.38	Vertical
4882.00	35.44	31.85	5.40	24.01	48.68	54.00	-5.32	Horizontal
7323.00	17.55	36.37	6.91	26.62	34.21	54.00	-19.79	Horizontal
9764.00	15.56	38.35	9.01	25.29	37.63	54.00	-16.37	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:	Highest	Level:	Peak
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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)	Polarization
4960.00	43.82	31.93	5.47	23.93	57.29	74.00	-16.71	Vertical
7440.00	39.78	36.59	6.95	26.95	56.37	74.00	-17.63	Vertical
9920.00	34.98	38.81	9.07	25.22	57.64	74.00	-16.36	Vertical
4960.00	42.76	31.93	5.47	23.93	56.23	74.00	-17.77	Horizontal
7440.00	35.75	36.59	6.95	26.95	52.34	74.00	-21.66	Horizontal
9920.00	28.86	38.81	9.07	25.22	51.52	74.00	-22.48	Horizontal

Test channel:	Highest	Level:	Average
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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)	Polarization
4960.00	31.80	31.93	5.47	23.93	45.27	54.00	-8.73	Vertical
7440.00	26.83	36.59	6.95	26.95	43.42	54.00	-10.58	Vertical
9920.00	18.83	38.81	9.07	25.22	41.49	54.00	-12.51	Vertical
4960.00	33.71	31.93	5.47	23.93	47.18	54.00	-6.82	Horizontal
7440.00	28.83	36.59	6.95	26.95	45.42	54.00	-8.58	Horizontal
9920.00	22.17	38.81	9.07	25.22	44.83	54.00	-9.17	Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

6.2.3 Band edge (Radiated Emission)

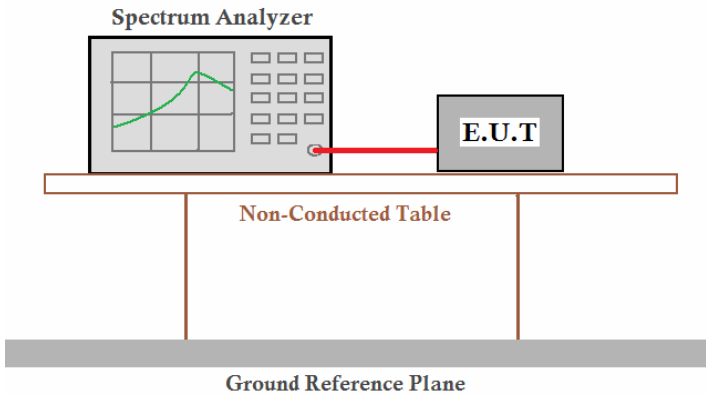
Test channel:			Lowest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	51.47	27.59	3.33	30.10	52.29	74.00	-21.71	Horizontal
2400.00	55.63	27.58	3.37	30.10	56.48	74.00	-17.52	Horizontal
2390.00	52.82	27.59	3.33	30.10	53.64	74.00	-20.36	Vertical
2400.00	56.69	27.58	3.37	30.10	57.54	74.00	-16.46	Vertical

Test channel:			Lowest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.11	27.59	3.33	30.10	35.93	54.00	-18.07	Horizontal
2400.00	38.62	27.58	3.37	30.10	39.47	54.00	-14.53	Horizontal
2390.00	36.46	27.59	3.33	30.10	37.28	54.00	-16.72	Vertical
2400.00	39.68	27.58	3.37	30.10	40.53	54.00	-13.47	Vertical

Test channel:			Highest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	54.32	27.53	3.49	29.93	55.41	74.00	-18.59	Vertical
2500.00	52.01	27.55	3.52	30.70	52.38	74.00	-21.62	Vertical
2483.50	57.07	27.53	3.49	29.93	58.16	74.00	-15.84	Horizontal
2500.00	53.41	27.55	3.52	30.70	53.78	74.00	-20.22	Horizontal

Test channel:			Highest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.87	27.53	3.49	29.93	39.96	54.00	-14.04	Vertical
2500.00	34.30	27.55	3.52	30.70	34.67	54.00	-19.33	Vertical
2483.50	40.27	27.53	3.49	29.93	41.36	54.00	-12.64	Horizontal
2500.00	35.46	27.55	3.52	30.70	35.83	54.00	-18.17	Horizontal

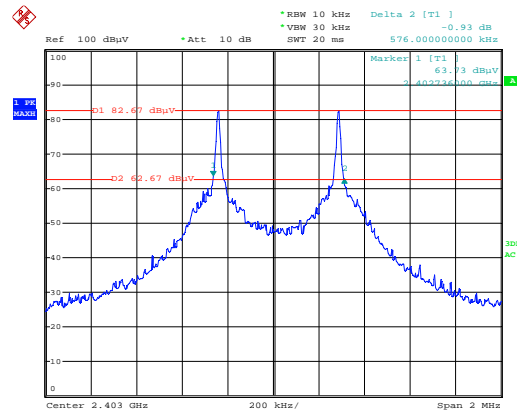
6.3 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2003
Receiver setup:	RBW=10kHz, VBW=30kHz, detector: Peak
Limit:	Operation Frequency range 2400MHz-2483.5MHz
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Refer to section 4.3 for details
Test results:	Passed

Measurement Data

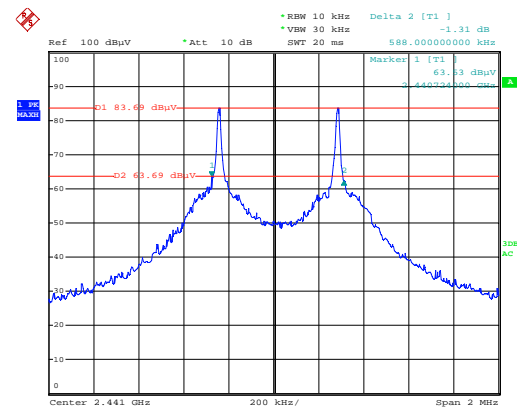
Test channel	20dB bandwidth (MHz)	Results
Lowest	0.576	Pass
Middle	0.588	Pass
Highest	0.572	Pass

Test plot as follows:



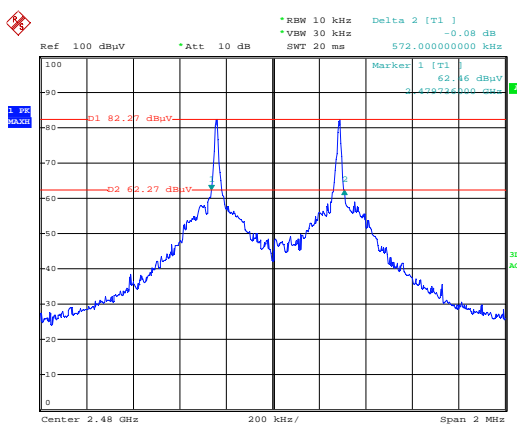
Date: 27.SEP.2012 04:04:18

Lowest channel



Date: 27.SEP.2012 04:05:55

Middle channel



Date: 27.SEP.2012 04:07:14

Highest channel