

# Test Report

## Client Information:

Applicant: OXTOP(DONGGUAN) ELECTRONICS CO., LTD.  
Applicant add.: No. 15, Kai-Toh Road, New Industrial Zone Shitanpu,  
Tangxia Town, Dongguan City

## EUT Information:

EUT Name: Wireless SW Kit  
Model No.: PWSK1  
Brand Name: Polkaudio  
FCC ID: W4A-PWSK-1  
IC ID: 9020A-PWSK1

## Prepared By:

Asia Institute Technology (Dongguan) Limited  
Add. : No.6 Binhe Road, Tianxin Village, Huangjiang,  
Dongguan, Guangdong, China.


Date of Receipt: May 20, 2010      Date of Test: May 20 ~ Jun 02, 2010  
Date of Issue: Jun 03, 2010      Test Result: **Pass**

## Test procedure used: ANSI C63.4-2003 ,RSS-Gen Issue 2

This device described above has been tested by Asia Institute Technology (Dongguan) Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

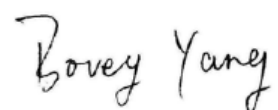
\*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by:



Test director

Approved by:



Technical director

Asia Institute Technology (Dongguan) Limited  
No.6.Binhe Road, Tianxin Village, Huangjiang,  
Dongguan, Guangdong, China.

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## 2 Test Summary

### 2.1 Compliance with FCC Part 15 subpart C/RSS-Gen&RSS-210

Test	RSS rule part	FCC rule part	Result
Antenna requirement	N/A	Section 15.203	PASS
Conduction Emissions	RSS-gen 7.2.2	Section 15.207	N/A
Radiated Emissions	RSS-210	Section 15.249(a) Section 15.249(d)	PASS
Band edges	RSS-210	Section 15.249(d)	PASS
Occupied Bandwidth	RSS-210	Section 15.215	PASS

### 2.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, The following measurements uncertainty Level have estimated based on ANSI C63.4:2003, the maximum value of the uncertainty as below

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	Radiated Emission Test	$\pm 3.57\text{dB}$

### 3 Test Facility

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

**.FCC- Registration No: 248337**

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dong guan) Limited have been registered by Federal Communications Commission (FCC) on Dec.07, 2006.

**.Industry Canada(IC)-Registration No: IC6819A-1 & IC6819A-2**

The 3m Semi-Anechoic Chamber and 3m/10m Open Area Test Site of Asia Institute Technology (Dongguan) Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Nov.07, 2006.

**.VCCI- Registration No: R-2482 & C-2730**

The 3m/10m Open Area Test Site and Shielding Room of Asia Institute Technology (Dongguan) Limited have been registered by Voluntary Control Council for Interference on Jan.24, 2007.

**.TUV Rhineland**

Asia Institute Technology (Dongguan) Limited has been assessed on Jan.16, 2007 that it can carry out EMC tests by order and under supervision of TUV Rhineland.

**.ITS- Registration No: TMPSHA031**

Asia Institute Technology (Dongguan) Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Nov.10, 2006.

#### 3.1 Deviation from standard

None

#### 3.2 Abnormalities from standard conditions

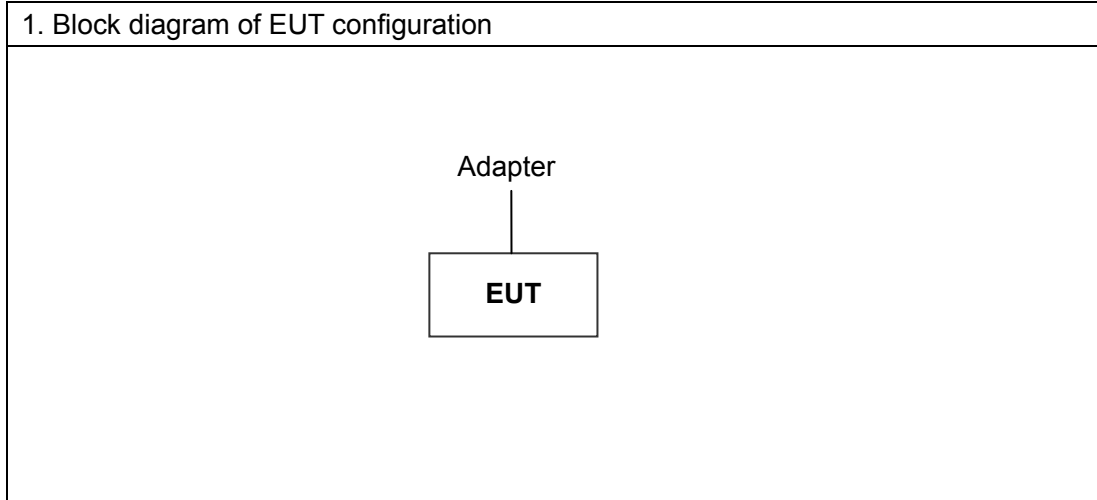
## 4 General Information

### 4.1 General Description of EUT

Manufacturer:	OXTOP(DONGGUAN) ELECTRONICS CO., LTD.		
Manufacturer Address:	No. 15, Kai-Toh Road, New Industrial Zone Shitanpu,Tangxia Town, Dongguan City		
EUT Name:	Wireless SW Kit		
Model No:	PWSK1		
Operation frequency:	2404 MHz to 2479MHz		
Channel Number:	16		
Modulation Technology:	GFSK		
Antenna Type:	2.4GHz 2dBi ANTENNA WITH (RoHS) FOR RG178 Coaxial L:120mm		
Brand Name:	Polkaudio		
Serial No:	N/A		
Power Supply Range:	DC 3V from adapter		
Power Supply:	DC 3V from adapter		
Power Cord:	N/A		
Model description: N/A			
Description of Channel:			
channel	Frequency (MHz)	channel	Frequency (MHz)
0	2404	9	2449
1	2409	10	2454
2	2413	11	2459
3	2419	12	2464
4	2424	13	2469
5	2429	14	2474
6	2434	15	2479
7	2439		
8	2444		

## 4.2 Description of Test conditions

- (1) EUT was tested in normal configuration (Please See following Block diagram)



- (2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

- (3) 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

- (4) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency

### 4.3 Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	N/A	N/A	N/A	N/A	N/A	N/A

## 5 Equipments List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	<b>Spectrum Analyzer</b>	ADVANTEST	R3182	150900201	2010.04.17	2011.04.16
2	EMI Measuring Receiver	Schaffner	SCR3501	235	2010.04.07	2011.04.06
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2010.03.07	2010.09.06
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2010.04.08	2011.04.07
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2009.07.02	2010.07.01
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120A	451	2009.07.15	2010.07.14
7	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2010.03.07	2010.09.06
8	EMI Test Receiver	R&S	ESCI	100124	2009.12.28	2010.12.27
9	LISN	Kyoritsu	KNW-242	8-837-4	2010.04.07	2011.04.06
10	LISN	Kyoritsu	KNW-407	8-1789-3	2010.04.07	2011.04.06
11	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2010.03.07	2010.09.06

## **6 Test Result**

### **6.1 Antenna requirement**

#### **6.1.1 Standard requirement**

15.203 requirement: For intentional device, according to 15.203: 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.

#### **6.1.2 EUT Antenna**

The antenna is connect to EUT and no consideration of replacement.



## 6.2 Conduction Emissions Measurement

### 6.2.1 limit

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Note:Decreases with the logarithm of the frequency.

### 6.2.2 Test procedure

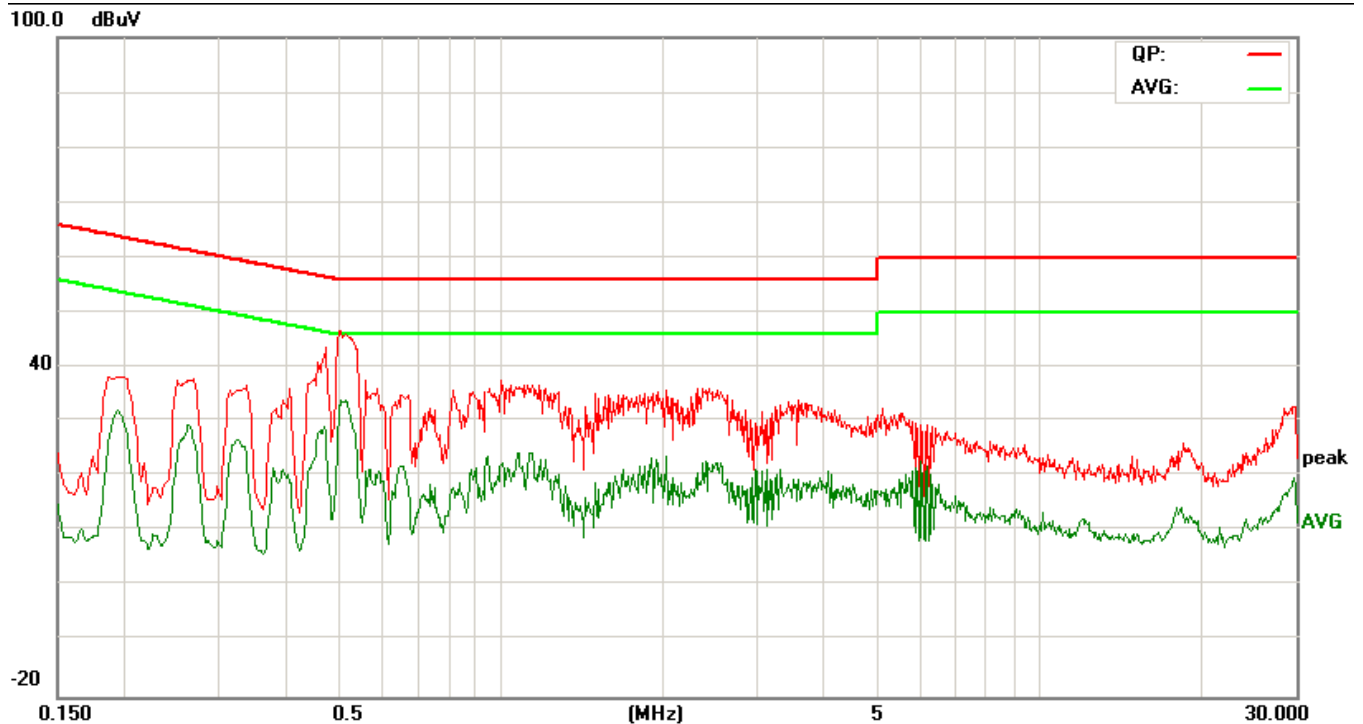
EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

## 6.2.3 Test result

Test Data: 2010-5-25

Operating Environment: 20.3°C, 58% RH, 102 Kpa

### Line --Operating mode: running

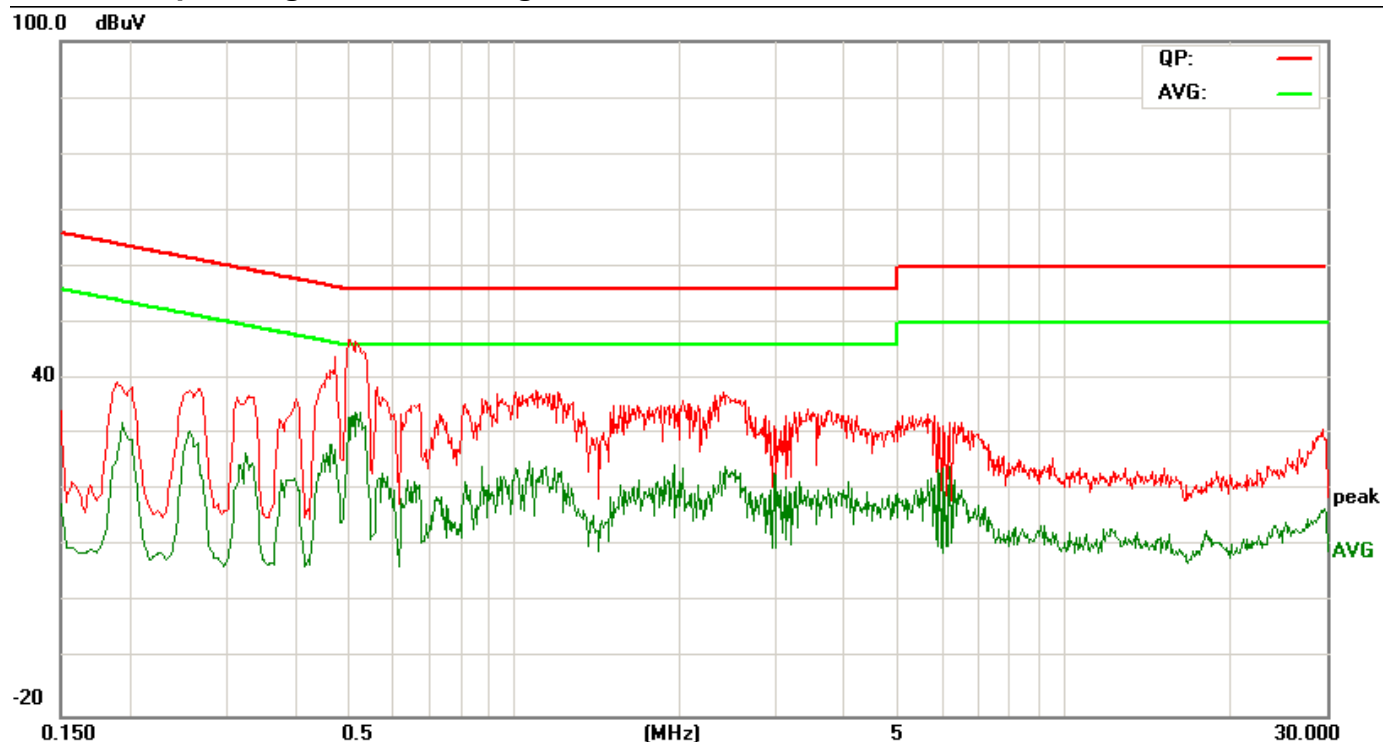


### Line

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
0.2700	27.25	10.83	38.08	61.12	-23.04	QP
0.3380	26.32	10.66	36.98	59.25	-22.27	QP
0.5020	36.50	10.35	46.85	56.00	-9.15	QP
1.1220	26.62	10.19	36.81	56.00	-19.19	QP
2.4380	26.03	10.17	36.20	56.00	-19.80	QP
3.5660	23.64	10.17	33.81	56.00	-22.19	QP

Frequency (MHz)	Regtading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
0.2620	18.58	10.85	29.43	51.37	-21.94	AVG
0.3260	15.90	10.67	26.57	49.55	-22.98	AVG
0.5140	23.41	10.34	33.75	46.00	-12.25	AVG
1.1380	14.02	10.19	24.21	46.00	-21.79	AVG
2.4020	12.66	10.17	22.83	46.00	-23.17	AVG
3.5020	9.34	10.17	19.51	46.00	-26.49	AVG

## Neutral --Operating mode: running



### Neutral

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
0.2700	27.64	10.83	38.47	61.12	-22.65	QP
0.4740	33.59	10.40	43.99	56.44	-12.45	QP
0.5020	36.77	10.35	47.12	56.00	-8.88	QP
1.0940	27.87	10.19	38.06	56.00	-17.94	QP
2.4020	27.61	10.17	37.78	56.00	-18.22	QP
3.4340	24.18	10.16	34.34	56.00	-21.66	QP

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
0.2580	19.75	10.87	30.62	51.50	-20.88	AVG
0.4660	17.86	10.41	28.27	46.58	-18.31	AVG
0.5260	23.55	10.33	33.88	46.00	-12.12	AVG
1.0700	15.00	10.19	25.19	46.00	-20.81	AVG
2.4300	14.16	10.17	24.33	46.00	-21.67	AVG
3.2940	11.37	10.17	21.54	46.00	-24.46	AVG

Note: “\*” means the worst case

Quasi peak/Average = Reading Level + Factor

Factor= Cable Loss + LISN insertion loss

## 6.3 Radiated Emissions Measurement

### 6.3.1 Limit

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency of Emission (MHz)	Field Strength of fundamental (dB $\mu$ V/m)	Field Strength of Harmonics(dB $\mu$ V/m)
902-928	94	54
2400-2483.5	94	54
5725-5875	94	54
24000-24250	108	68

Note: Field strength limits are specified at a distance of 3 meters. the above field strength limits in paragraphs of this section 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.

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.

Frequency of Emission (MHz)	Field Strength		Measurement Distance (meters)
	$\mu$ V/m	dB $\mu$ V/m	
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

### 6.3.2 Test procedure

EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 6.3.3 Test Result

Test Data: 2010-5-25

Frequency Range: 30MHz to 1GHz

RBW/VBW: 100KHz/300KHz for spectrum, RBW=120KHz for receiver

Measurement Distance: 3 m

Operating Environment: 25.3°C, 55% RH, 102 Kpa

(a) Antenna polarization: Horizontal

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
55.220	13.960	0.215	14.175	-25.825	40.000	QUASIPeAK
156.100	16.600	0.561	17.161	-26.339	43.500	QUASIPeAK
194.900	13.830	1.972	15.802	-27.698	43.500	QUASIPeAK
<b>*286.080</b>	<b>16.740</b>	<b>15.421</b>	<b>32.161</b>	<b>-13.839</b>	<b>46.000</b>	<b>QUASIPeAK</b>
371.440	19.050	0.286	19.336	-26.664	46.000	QUASIPeAK
870.020	29.120	0.280	29.400	-16.600	46.000	QUASIPeAK

(b) Antenna polarization: vertical

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
137.670	15.730	2.550	18.280	-25.220	43.500	QUASIPeAK
211.390	13.810	2.150	15.960	-27.540	43.500	QUASIPeAK
243.400	15.280	2.095	17.375	-28.625	46.000	QUASIPeAK
287.050	16.760	0.722	17.482	-28.518	46.000	QUASIPeAK
366.590	18.900	0.456	19.356	-26.644	46.000	QUASIPeAK
<b>*621.700</b>	<b>24.910</b>	<b>1.012</b>	<b>25.922</b>	<b>-20.078</b>	<b>46.000</b>	<b>QUASIPeAK</b>

Note: '\*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

TX Mode

(a) Antenna polarization: Horizontal

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
142.520	15.950	9.165	25.115	-18.385	43.500	QUASIPeAK
296.750	16.767	18.622	35.389	-10.611	46.000	QUASIPeAK
<b>317.120</b>	<b>17.502</b>	<b>23.012</b>	<b>40.514</b>	<b>-5.486</b>	<b>46.000</b>	<b>QUASIPeAK</b>
357.860	18.908	16.442	35.350	-10.650	46.000	QUASIPeAK
398.600	20.454	13.153	33.607	-12.393	46.000	QUASIPeAK
460.680	21.480	10.137	31.617	-14.383	46.000	QUASIPeAK

(b) Antenna polarization: vertical

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
<b>112.450</b>	<b>13.494</b>	<b>24.135</b>	<b>37.629</b>	<b>-5.871</b>	<b>43.500</b>	<b>QUASIPeAK</b>
296.750	16.767	15.935	32.702	-13.298	46.000	QUASIPeAK
317.120	17.502	19.575	37.077	-8.923	46.000	QUASIPeAK
357.860	18.908	11.286	30.194	-15.806	46.000	QUASIPeAK
460.680	21.480	9.426	30.906	-15.094	46.000	QUASIPeAK
490.750	21.830	11.389	33.219	-12.781	46.000	QUASIPeAK

Note: '\*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

RX Mode

Test Data: 2010-5-24

Frequency Range: 1GHz to 25GHz

RBW/VBW: 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Measurement Distance: 3 m

Operating Environment: 25.3°C, 58% RH, 102 Kpa

(a) Antenna polarization: Horizontal

Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1202.000	29.253	2.719	31.972	-42.028	74.000	PEAK
1410.000	29.889	1.749	31.139	-42.861	74.000	PEAK
2400.000	31.669	5.235	36.904	-37.096	74.000	PEAK
2400.000	31.669	1.287	32.956	-21.044	54.000	AVERAGE
2404.000	33.687	49.942	83.629	-30.371	114.000	PEAK
<b>*2404.000</b>	<b>33.913</b>	<b>48.893</b>	<b>82.823</b>	<b>-11.177</b>	<b>94.000</b>	<b>AVERAGE</b>
3170.000	36.111	8.909	47.020	-8.980	54.000	PEAK
3975.000	37.698	2.881	40.817	-13.183	54.000	PEAK
4808.000	40.010	6.579	46.589	-27.411	74.000	PEAK

(b) Antenna polarization: vertical

Frequency (MHz)	Correct Factor (Db)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (Db)	Limit (dBuV/m)	Detector Type
1490.000	29.919	11.531	41.450	-32.550	74.000	PEAK
1935.000	31.487	12.325	43.812	-30.188	74.000	PEAK
2035.000	31.877	12.726	44.603	-29.397	74.000	PEAK
2400.000	33.897	11.856	45.753	-28.247	74.000	PEAK
2400.000	33.900	5.47	39.37	-14.630	54.000	PEAK
2404.000	33.913	57.360	91.273	-22.727	114.000	PEAK
<b>*2404.000</b>	<b>33.513</b>	<b>55.360</b>	<b>88.873</b>	<b>-4.127</b>	<b>94.000</b>	<b>AVERAGE</b>
4808.250	40.010	6.150	46.160	-27.840	74.000	PEAK

Note: '\*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Low Channel:2404 MHz

(74) Antenna polarization: Horizontal

Frequency (MHz)	Correct Factor (Db)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (Db)	Limit (dBuV/m)	Detector Type
1220.000	29.310	-1.176	28.134	-45.866	74.000	PEAK
1544.000	29.877	-0.615	29.262	-44.738	74.000	PEAK
2444.000	33.924	60.930	92.854	-21.146	114.000	PEAK
<b>*2444.860</b>	<b>33.997</b>	<b>56.487</b>	<b>92.436</b>	<b>-3.516</b>	<b>94.000</b>	<b>AVERAGE</b>
2935.000	35.725	10.956	46.681	-27.319	74.000	PEAK
4888.760	40.125	6.646	46.771	-27.229	74.000	PEAK

(b) Antenna polarization: vertical

Frequency (MHz)	Correct Factor (Db)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (Db)	Limit (dBuV/m)	Detector Type
1220.000	29.310	-1.176	28.134	-45.866	74.000	PEAK
1544.000	29.877	-0.615	29.262	-44.738	74.000	PEAK
2444.100	33.924	50.930	83.854	-31.146	114.000	PEAK
<b>*2444.234</b>	<b>33.863</b>	<b>45.419</b>	<b>79.28</b>	<b>-14.719</b>	<b>94.000</b>	<b>AVERAGE</b>
3180.000	36.126	10.420	46.546	-27.454	74.000	PEAK
4888.458	40.125	3.689	43.814	-30.186	74.000	PEAK

Note: '\*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

Middle Channel :2444 MHz



## (75) Antenna polarization: Horizontal

Frequency (MHz)	Correct Factor (Db)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (Db)	Limit (dBuV/m)	Detector Type
1400.000	29.910	12.024	41.934	-32.066	74.000	PEAK
2165.000	32.639	13.841	46.481	-27.519	74.000	PEAK
2477.000	34.107	56.770	90.877	-23.123	114.000	PEAK
<b>*2479.279</b>	<b>34.107</b>	<b>45.170</b>	<b>80.277</b>	<b>-13.723</b>	<b>94.000</b>	<b>AVERAGE</b>
2483.500	34.135	9.856	43.991	-30.009	74.000	PEAK
2483.500	34.125	4.562	38.687	-15.313	54.000	AVERAGE
2810.000	35.508	11.299	46.807	-27.193	74.000	PEAK
3195.000	36.153	10.314	46.466	-27.534	74.000	PEAK
4958.000	40.263	6.075	46.338	-27.662	74.000	PEAK

## (b) Antenna polarization: vertical

Frequency (MHz)	Correct Factor (Db)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (Db)	Limit (dBuV/m)	Detector Type
1245.000	29.423	11.787	41.211	-32.789	74.000	PEAK
2305.000	33.391	12.742	46.133	-27.867	74.000	PEAK
2477.000	34.107	55.409	89.516	-24.484	114.000	PEAK
<b>*2479.128</b>	<b>34.107</b>	<b>54.809</b>	<b>88.916</b>	<b>-5.084</b>	<b>94.000</b>	<b>AVERAGE</b>
2483.500	34.135	9.609	43.744	-30.256	74.000	PEAK
2483.500	33.570	6.584	40.154	-13.846	54.000	AVERAGE
3070.000	35.949	11.269	47.218	-26.782	74.000	PEAK
4958.000	40.263	4.311	44.574	-29.426	74.000	PEAK

Note: '\*' means the worst case

Measurement Level = Reading Level + Factor

Factor=Ant Factor + Cable Loss

High Channel :2479MHz

## **6.4 Band edges**

### **6.4.1 Limit**

Fcc part15.249 (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.

### **6.4.2 Test procedure**

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as RBW=100kHz,VBW $\geq$ RBW, Sweep time=Auto, Detector Function=Peak
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
- (3) The above procedure shall be repeated at the lowest, and the highest frequency of the stated frequency range.

### **6.4.3 Test Result**

Please refer to report section 6.2.3 which met the requirement of limits in 15.209

## 6.5 Occupied Bandwidth

### 6.5.1 Limit

Fcc part15.249 (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.

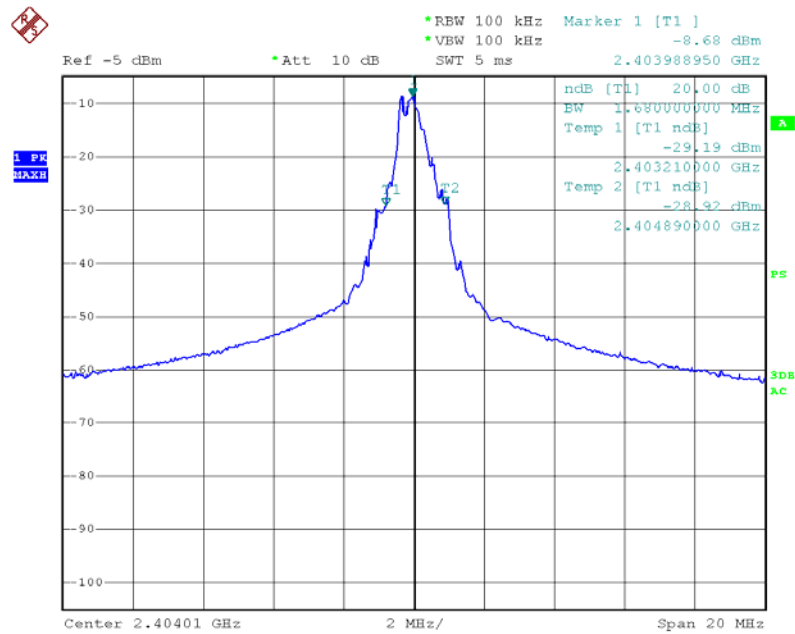
### 6.5.2 Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer , set the Spectrum Analyzer as RBW=100kHz,VBW $\geq$ RBW,Sweep time=Auto, Detector Function=Peak
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. also shall be performed at different modes of operation

### 6.5.3 Test Result

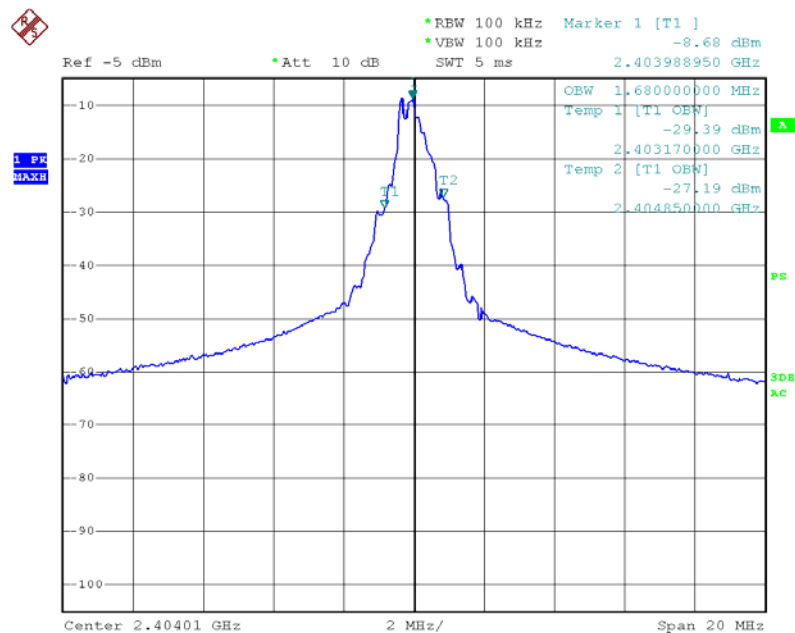
channel	Channel frequency (MHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Limit (KHz)	Conclusion
Low	2404	1680	1680	N/A	Pass
Mid	2444	1800	2160	N/A	Pass
High	2479	1980	2060	N/A	Pass

(1) Low: 2404MHz



Date: 26.MAY.2010 22:03:44

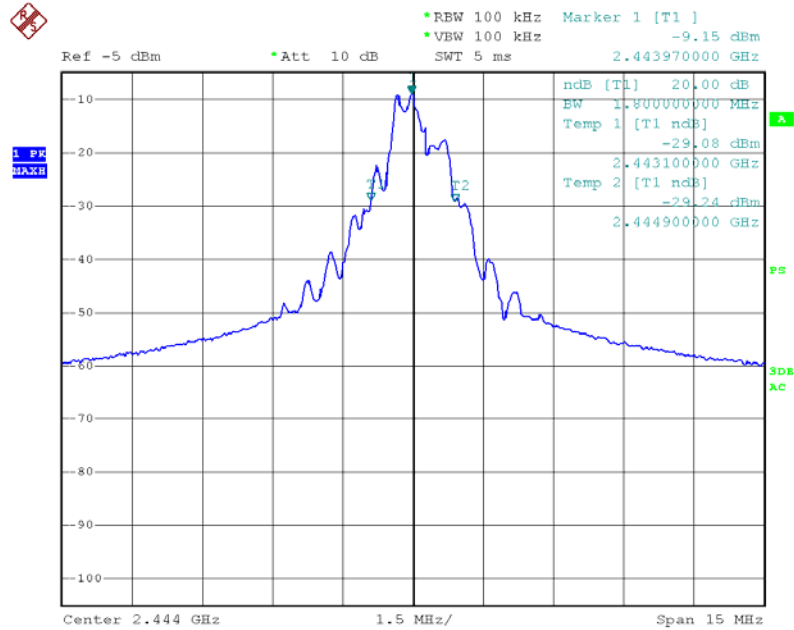
20 dB bandwidth



Date: 26.MAY.2010 22:02:07

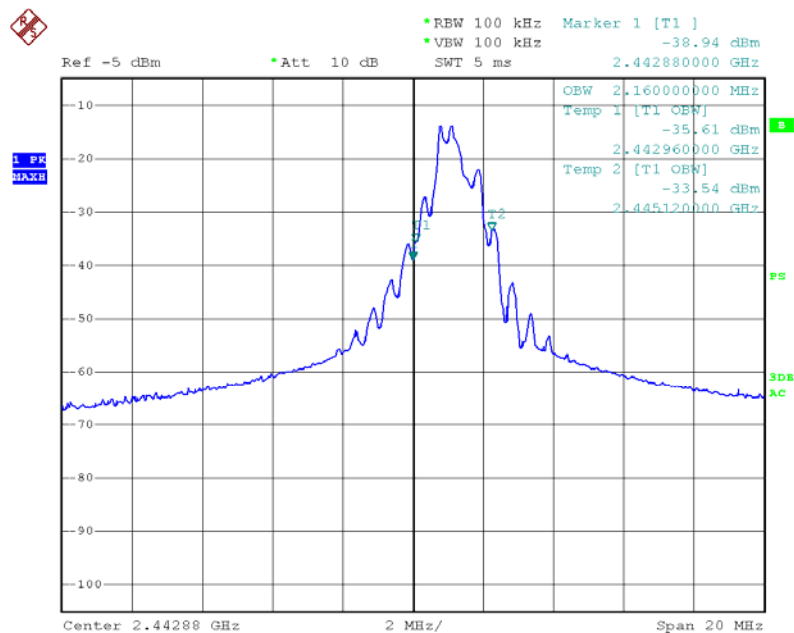
99% bandwidth

## (2) Mid: 2444MHz



Date: 26.MAY.2010 22:26:45

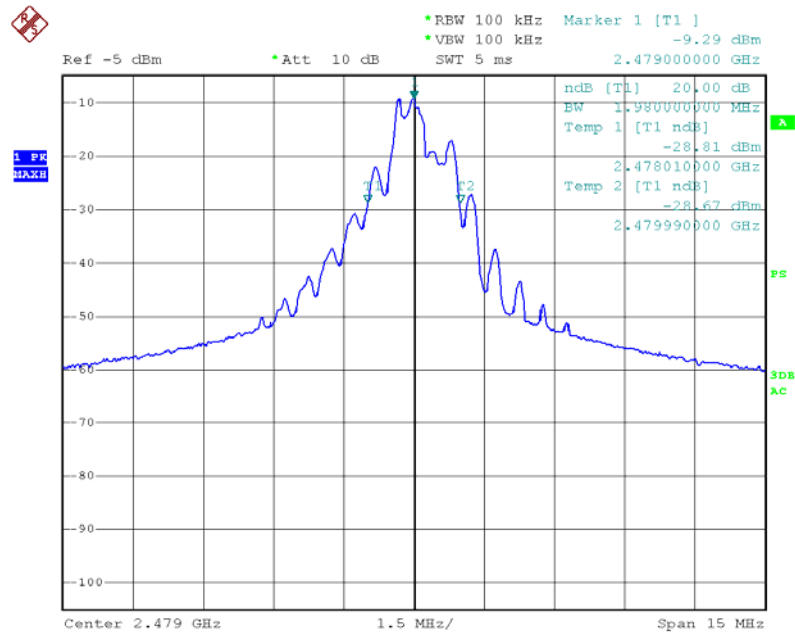
## 20 dB bandwidth



Date: 2.JUN.2010 18:10:54

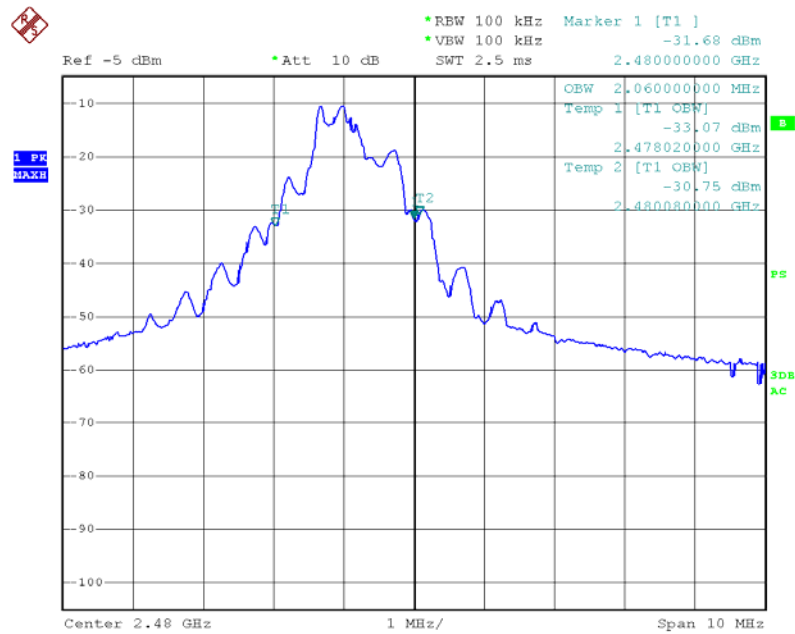
## 99% bandwidth

### (3) High: 2479MHz



Date: 26.MAY.2010 22:36:23

### 20 dB bandwidth



Date: 2.JUN.2010 18:16:13

### 99% bandwidth