

FCC REPORT

Applicant: Shenzhen Tesuda model technology Co., LTD

Address of Applicant: 3rd Floor, No. 35, Shekou yanshan Road, Nanshan District,
Shenzhen

Equipment Under Test (EUT)

Product Name: 2.4GHz Transmitter

Model No.: T-3918A, T-3939A, T-3816A, T-3920A

FCC ID: Z25T2G4

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2010

Date of sample receipt: 20 Sep., 2011

Date of Test: 20 Sep., 2011 to 23 Sep., 2011

Date of report issued: 23 Sep., 2011

Test Result : PASS *

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

Authorized Signature:



Robinson Lo
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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	23 Sep., 2011	Original

Prepared By:

Collin He

Date:

23 Sep., 2011

Project Engineer

Check By:

Hans. Hu

Date:

23 Sep., 2011

Reviewer

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4 Test Summary

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

Remark:

1.Pass: The EUT complies with the essential requirements in the standard.

2. All test were at new battery mode.

5 General Information

5.1 Client Information

Applicant:	Shenzhen Tesuda model technology Co., LTD
Address of Applicant:	3rd Floor, No. 35, Shekou yanshan Road, Nanshan District, Shenzhen
Manufacturer/ Factory:	Shenzhen Tesuda model technology Co., LTD
Address of Manufacturer/ Factory:	3rd Floor, No. 35, Shekou yanshan Road, Nanshan District, Shenzhen

5.2 General Description of E.U.T.

Product Name:	2.4GHz Transmitter
Model No.:	T-3918A, T-3939A, T-3816A, T-3920A
Operation Frequency:	2407.8MHz to 2470.8MHz
Channel numbers:	22
Channel separation:	3MHz
Modulation type:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	DC 6.0V(4 x 1.5V "AA" Size Batteries)
Remark:	Only the model No. T-3918A was tested. T-3939A, T-3816A, and T-3920A are identical in interior structure, electrical circuits, and components, with different color for the appearance and model name.

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2407.8MHz
The middle channel	2437.8MHz
The Highest channel	2470.8MHz

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting continuously mode.		
Pre-Test Mode: (lowest channel=2407.8MHz)			
GTS 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)	101.24	104.84	95.25
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo)			

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC – Registration No.: 600491 Global United Technology 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 files. Registration 600491, July 20, 2010. ● Industry Canada (IC) The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.
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5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China Tel: 0755-27798480 0755-27798960
Fax:

5.6 Other Information Requested by the Customer

None.

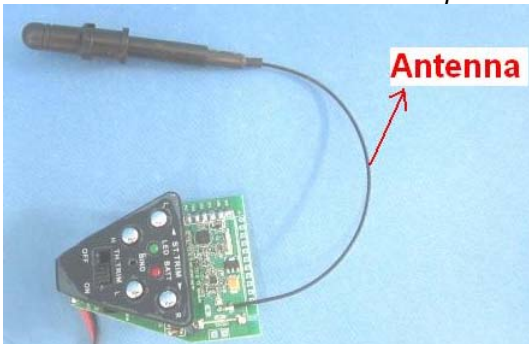
5.7 Test Instruments list

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	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2011	June 29 2012
15	Band filter	Amindeon	82346	GTS219	June 30 2011	June 29 2012

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

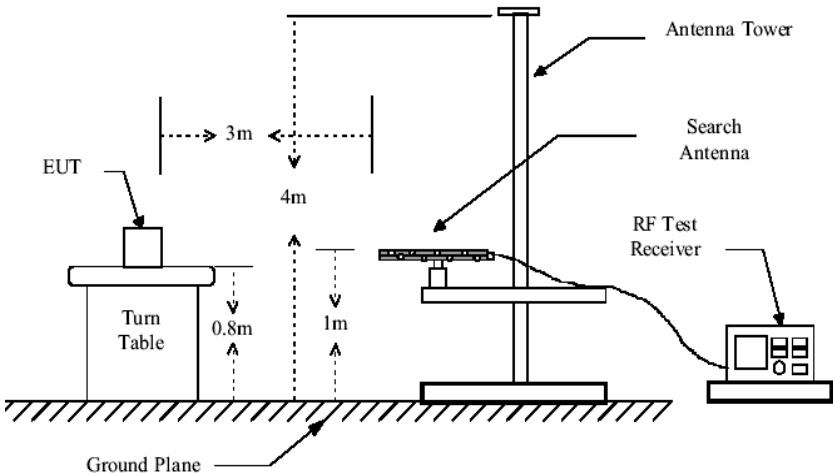
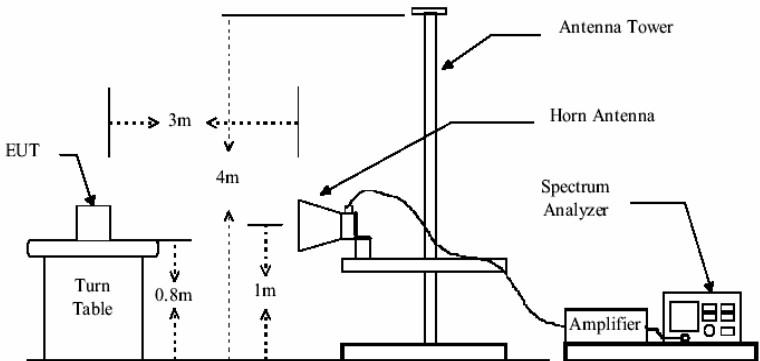
6 Test results and Measurement Data

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 no consideration of replacement. The best case gain of the antenna is 2dBi.</p> 	

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 (Semi-Anechoic Chamber)				
Receiver setup:					
	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	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		94.0	Average Value	
114.0			Peak Value		
Limit: (Spurious Emissions)					
	Frequency		Limit (dBuV/m @3m)	Remark	
	30MHz-88MHz		40.0	Quasi-peak Value	
	88MHz-216MHz		43.5	Quasi-peak Value	
	216MHz-960MHz		46.0	Quasi-peak Value	
	960MHz-1GHz		54.0	Quasi-peak Value	
	Above 1GHz		54.0	Average Value	
74.0			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>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>b. 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>c. 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>d. 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>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>f. 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</div>				

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

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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
2407.80	106.41	27.54	3.83	32.94	104.84	114.00	-9.16	Vertical
2437.80	107.41	27.46	3.85	32.96	105.76	114.00	-8.24	Vertical
2470.80	108.44	27.49	3.87	32.99	106.81	114.00	-7.19	Vertical
2407.80	101.89	27.54	3.83	32.94	100.32	114.00	-13.68	Horizontal
2437.80	103.94	27.46	3.85	32.96	102.29	114.00	-11.71	Horizontal
2470.80	103.61	27.49	3.87	32.99	101.98	114.00	-12.02	Horizontal

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
2407.80	86.87	27.54	3.83	32.94	85.30	94.00	-8.70	Vertical
2437.80	86.35	27.46	3.85	32.96	84.70	94.00	-9.30	Vertical
2470.80	85.13	27.49	3.87	32.99	83.50	94.00	-10.50	Vertical
2407.80	81.75	27.54	3.83	32.94	80.18	94.00	-13.82	Horizontal
2437.80	81.01	27.46	3.85	32.96	79.36	94.00	-14.64	Horizontal
2470.80	80.24	27.49	3.87	32.99	78.61	94.00	-15.39	Horizontal

6.2.2 Spurious Emissions

30MHz~1GHz

Test mode:	Transmitting
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
41.860	36.30	13.57	0.27	27.10	23.04	40.00	-16.96	Vertical
70.584	39.22	8.52	0.40	27.00	21.14	40.00	-18.86	Vertical
110.182	39.20	12.25	0.51	27.03	24.93	43.50	-18.57	Vertical
230.099	34.14	11.62	0.83	26.50	20.09	46.00	-25.91	Vertical
451.135	33.26	15.58	1.36	27.47	22.73	46.00	-23.27	Vertical
810.265	32.73	20.15	2.05	27.49	27.44	46.00	-18.56	Vertical
33.328	38.08	12.31	0.22	27.16	23.45	40.00	-16.55	Horizontal
53.131	34.81	13.12	0.33	27.10	21.16	40.00	-18.84	Horizontal
109.412	34.89	12.30	0.51	27.04	20.66	43.50	-22.84	Horizontal
221.392	37.70	11.25	0.80	26.52	23.23	46.00	-22.77	Horizontal
416.179	37.29	15.39	1.28	27.29	26.67	46.00	-19.33	Horizontal
793.396	34.86	19.96	2.03	27.51	29.34	46.00	-16.66	Horizontal

Above 1GHz					
Test mode:	Transmitting	Test channel:	Lowest	Remark:	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
4815.60	41.79	31.55	5.89	34.55	44.68	74.00	-29.32	Vertical
7223.40	42.55	36.49	7.10	36.11	50.03	74.00	-23.97	Vertical
9631.20	42.24	38.19	9.03	35.92	53.54	74.00	-20.46	Vertical
12039.00	42.73	39.30	10.04	35.92	56.15	74.00	-17.85	Vertical
14446.80	*					74.00		Vertical
16854.60	*					74.00		Vertical
4815.60	39.69	31.55	5.89	34.55	42.58	74.00	-31.42	Horizontal
7223.40	40.35	36.49	7.10	36.11	47.83	74.00	-26.17	Horizontal
9631.20	39.94	38.19	9.03	35.92	51.24	74.00	-22.76	Horizontal
12039.00	40.73	39.30	10.04	35.92	54.15	74.00	-19.85	Horizontal
14446.80	*					74.00		Horizontal
16854.60	*					74.00		Horizontal

Test mode:	Transmitting	Test channel:	Lowest	Remark:	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
4875.60	33.59	31.55	5.89	34.55	36.48	54.00	-17.52	Vertical
7313.40	34.25	36.49	7.10	36.11	41.73	54.00	-12.27	Vertical
9751.20	33.84	38.19	9.03	35.92	45.14	54.00	-8.86	Vertical
12189.00	34.23	39.30	10.04	35.92	47.65	54.00	-6.35	Vertical
14626.80	*					54.00		Vertical
17064.60	*					54.00		Vertical
4875.60	31.79	31.55	5.89	34.55	34.68	54.00	-19.32	Horizontal
7313.40	32.35	36.49	7.10	36.11	39.83	54.00	-14.17	Horizontal
9751.20	31.84	38.19	9.03	35.92	43.14	54.00	-10.86	Horizontal
12189.00	32.53	39.30	10.04	35.92	45.95	54.00	-8.05	Horizontal
14626.80	*					54.00		Horizontal
17064.60	*					54.00		Horizontal

Remark:

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

Test mode:	Transmitting	Test channel:	Middle	Remark:	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
4875.60	41.79	31.55	5.89	34.55	44.68	74.00	-29.32	Vertical
7313.40	42.55	36.49	7.10	36.11	50.03	74.00	-23.97	Vertical
9751.20	42.24	38.19	9.03	35.92	53.54	74.00	-20.46	Vertical
12189.00	42.73	39.30	10.04	35.92	56.15	74.00	-17.85	Vertical
14626.80	*					74.00		Vertical
17064.60	*					74.00		Vertical
4875.60	39.29	31.55	5.89	34.55	42.18	74.00	-31.82	Horizontal
7313.40	40.15	36.49	7.10	36.11	47.63	74.00	-26.37	Horizontal
9751.20	39.94	38.19	9.03	35.92	51.24	74.00	-22.76	Horizontal
12189.00	40.53	39.30	10.04	35.92	53.95	74.00	-20.05	Horizontal
14626.80	*					74.00		Horizontal
17064.60	*					74.00		Horizontal

Test mode:	Transmitting	Test channel:	Middle	Remark:	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
4875.60	33.99	31.55	5.89	34.55	36.88	54.00	-17.12	Vertical
7313.40	34.65	36.49	7.10	36.11	42.13	54.00	-11.87	Vertical
9751.20	34.24	38.19	9.03	35.92	45.54	54.00	-8.46	Vertical
12189.00	34.63	39.30	10.04	35.92	48.05	54.00	-5.95	Vertical
14626.80	*					54.00		Vertical
17064.60	*					54.00		Vertical
4875.60	31.09	31.55	5.89	34.55	33.98	54.00	-20.02	Horizontal
7313.40	32.05	36.49	7.10	36.11	39.53	54.00	-14.47	Horizontal
9751.20	31.94	38.19	9.03	35.92	43.24	54.00	-10.76	Horizontal
12189.00	32.63	39.30	10.04	35.92	46.05	54.00	-7.95	Horizontal
14626.80	*					54.00		Horizontal
17064.60	*					54.00		Horizontal

Remark:

1. “*” means this data is the too weak instrument of signal is unable to test.
2. Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	Transmitting	Test channel:	Highest	Remark:	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
4941.60	41.79	31.55	5.89	34.55	44.68	74.00	-29.32	Vertical
7412.40	42.55	36.49	7.10	36.11	50.03	74.00	-23.97	Vertical
9883.20	42.24	38.19	9.03	35.92	53.54	74.00	-20.46	Vertical
12354.00	42.73	39.30	10.04	35.92	56.15	74.00	-17.85	Vertical
14824.80	*					74.00		Vertical
17295.60	*					74.00		Vertical
4941.60	39.69	31.55	5.89	34.55	42.58	74.00	-31.42	Horizontal
7412.40	40.35	36.49	7.10	36.11	47.83	74.00	-26.17	Horizontal
9883.20	39.94	38.19	9.03	35.92	51.24	74.00	-22.76	Horizontal
12354.00	40.73	39.30	10.04	35.92	54.15	74.00	-19.85	Horizontal
14824.80	*					74.00		Horizontal
17295.60	*					74.00		Horizontal

Test mode:	Transmitting	Test channel:	Highest	Remark:	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
4941.60	33.69	31.55	5.89	34.55	36.58	54.00	-17.42	Vertical
7412.40	34.35	36.49	7.10	36.11	41.83	54.00	-12.17	Vertical
9883.20	33.94	38.19	9.03	35.92	45.24	54.00	-8.76	Vertical
12354.00	34.33	39.30	10.04	35.92	47.75	54.00	-6.25	Vertical
14824.80	*					54.00		Vertical
17295.60	*					54.00		Vertical
4941.60	31.19	31.55	5.89	34.55	34.08	54.00	-19.92	Horizontal
7412.40	31.95	36.49	7.10	36.11	39.43	54.00	-14.57	Horizontal
9883.20	31.64	38.19	9.03	35.92	42.94	54.00	-11.06	Horizontal
12354.00	32.53	39.30	10.04	35.92	45.95	54.00	-8.05	Horizontal
14824.80	*					54.00		Horizontal
17295.60	*					54.00		Horizontal

Remark:

1. “*” means this data is too weak instrument of signal is unable to test.
2. Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3. 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 mode:	Transmitting	Test channel:	Lowest	Remark:	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
2390.00	61.89	27.58	3.81	32.93	60.35	74.00	-13.65	Horizontal
2400.00	70.51	27.58	3.83	32.93	68.99	74.00	-5.01	Horizontal
2390.00	62.99	27.58	3.81	32.93	61.45	74.00	-12.55	Vertical
2400.00	71.71	27.58	3.83	32.93	70.19	74.00	-3.81	Vertical

Test mode:	Transmitting	Test channel:	Lowest	Remark:	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
2390.00	47.39	27.58	3.81	32.93	45.85	54.00	-8.15	Horizontal
2400.00	49.21	27.58	3.83	32.93	47.69	54.00	-6.31	Horizontal
2390.00	49.99	27.58	3.81	32.93	48.45	54.00	-5.55	Vertical
2400.00	50.21	27.58	3.83	32.93	48.69	54.00	-5.31	Vertical

Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
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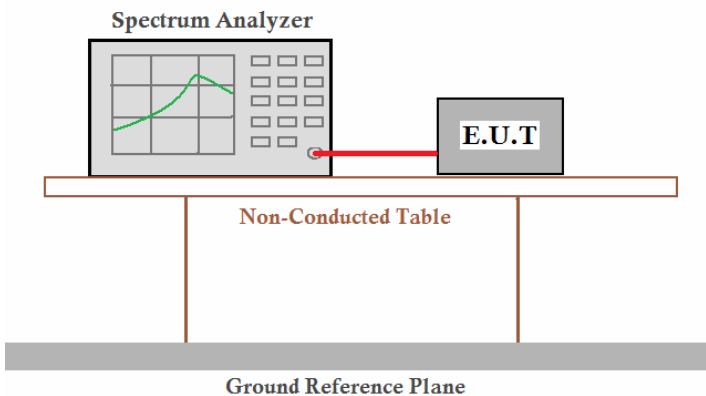
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	70.62	27.52	3.89	32.99	69.04	74.00	-4.96	Horizontal
2500.00	62.35	27.55	3.90	33.00	60.80	74.00	-13.20	Horizontal
2483.50	71.92	27.52	3.89	32.99	70.34	74.00	-3.66	Vertical
2500.00	63.35	27.55	3.90	33.00	61.80	74.00	-12.20	Vertical

Test mode:	Transmitting	Test channel:	Highest	Remark:	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
2483.50	49.12	27.52	3.89	32.99	47.54	54.00	-6.46	Horizontal
2500.00	49.35	27.55	3.90	33.00	47.80	54.00	-6.20	Horizontal
2483.50	49.72	27.52	3.89	32.99	48.14	54.00	-5.86	Vertical
2500.00	48.85	27.55	3.90	33.00	47.30	54.00	-6.70	Vertical

Remark: This is the worse points to the report.

6.3 20dB Bandwidth

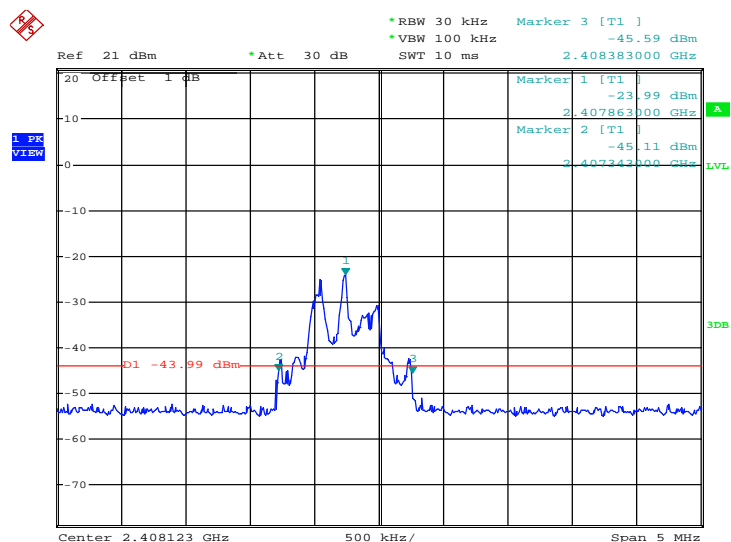
Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2003
Receiver setup:	RBW=30KHz, VBW=100KHz, detector: Peak
Limit:	Operation Frequency range 2400MHz-2483.5MHz
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position 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 to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. 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	1.04	Pass
Middle	1.04	Pass
Highest	1.05	Pass

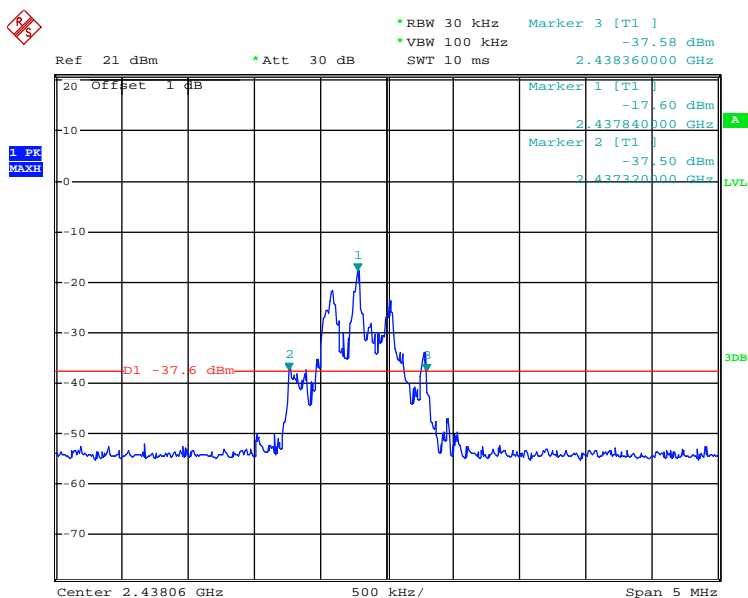
Test plot as follows:

Test channel:	Lowest	
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Date: 26.SEP.2011 11:08:17

Test channel:	Middle	
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Test channel:	Highest	
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