



FCC REPORT

Application No:	GTS10040001RF
Applicant:	Shenzhen Dianxuntong Electronics Co., LTD.
Equipment Under Test (EUT)	
Name:	Computer Bluetooth mouse
Model No.	imouse S100, imouse S200, imouse S300, imouse S400, 636RF
Operation Frequency:	2402MHz~2480MHz
FCC ID:	YBP-DXTS002
Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249
Date of Receipt:	25 March 2010
Date of Test:	27 March to 6 April 2010
Date of Issue:	6 April 2010
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

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3 Test Summary

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

Remark:

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

2>.Model No. imouse S100, imouse S200, imouse S300, imouse S400, 636RF

Only the model No. imouse S100 was tested, since the electrical circuit design, PCB layout, Electrical Parts and figure are identical to the basic model, except the outer decoration.

4 General Information

4.1 Client Information

Applicant:	Shenzhen Dianxuntong Electronics Co., LTD.
Address of Applicant:	5-6 floor, D building , Huafong First Technology Park, Sanwei, Baoan, Shenzhen, China
Manufacturer/ Factory:	NA
Address of Manufacturer/ Factory:	NA

4.2 General Description of E.U.T.

Product Name:	Computer wireless mouse
Item No.:	imouse S100, imouse S200, imouse S300, imouse S400, 636RF
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	2*1.5V("AAA" size)=3.0V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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	Channel	Frequency	Channel	Frequency
The lowest channel	2402MHz	The middle channel	2441MHz	The Highest channel	2480MHz

4.3 E.U.T Operation mode

Operating Environment:

Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar

Test mode:

Normal operation mode:

Transmitting mode: Keep the EUT in transmitting mode with modulation.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

4.5 Other Information Requested by the Customer

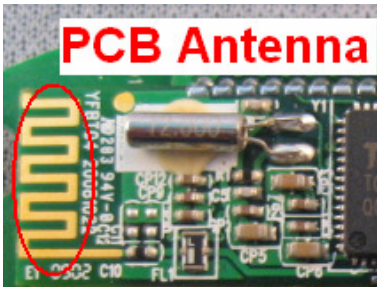
None.

4.6 Test Instruments list:

Radiated emissions						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2009	15-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	18-06-2009	17-06-2010
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2009	17-06-2010
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2009	11-08-2010
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2009	11-08-2010
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2009	11-08-2010
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2009	17-06-2010
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2009	17-06-2010
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	18-06-2009	17-06-2010
11	Band filter	Amindeon	82346	SEL0094	18-06-2009	17-06-2010

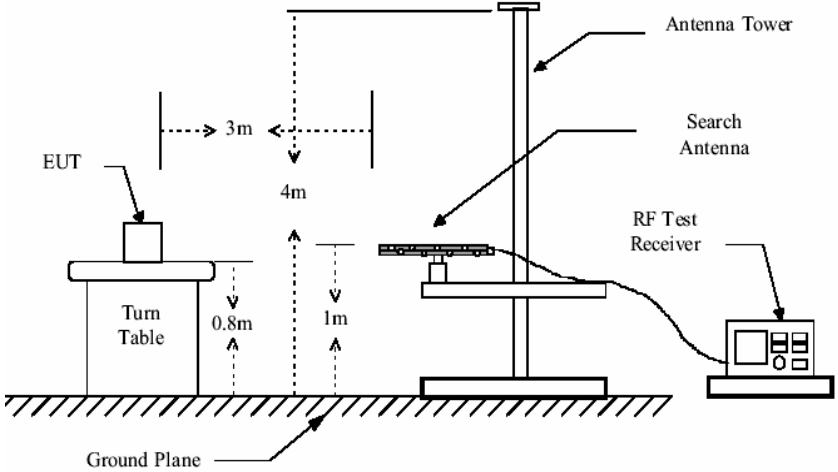
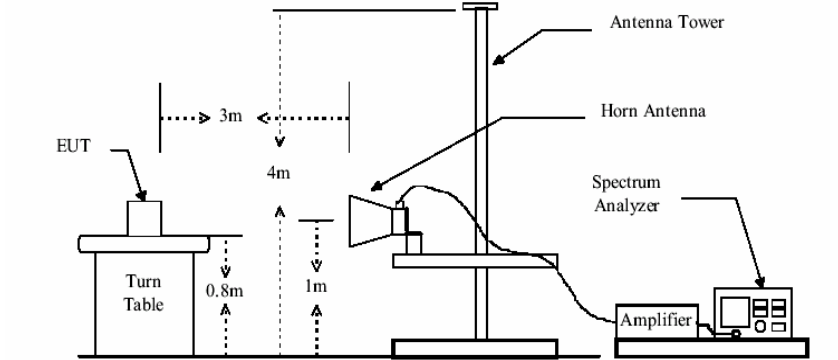
5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<p>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, 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.</p>	
E.U.T Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.</p>	
	

5.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249, 15.209 and 15.205				
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	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		94.0		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:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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 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.</p>				

<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 4.7 for details</p>
<p>Test mode:</p>	<p>Transmitting mode</p>
<p>Test results:</p>	<p>Passed</p>

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

5.2.1 Field Strength Of The Fundamental Signal

Peak value:

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
2402	6.38	32.26	38.85	93.67	93.46	114.00	-20.54	Horizontal
2402	6.38	32.26	38.85	90.58	90.37	114.00	-23.63	Vertical
2441	6.48	32.51	39.25	91.49	91.23	114.00	-22.77	Horizontal
2441	6.48	32.51	39.25	88.79	88.53	114.00	-25.47	Vertical
2480	6.61	32.68	39.81	91.56	91.04	114.00	-22.96	Horizontal
2480	6.61	32.68	39.81	89.14	88.62	114.00	-25.38	Vertical

Average value:

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
2402	6.38	32.26	38.85	83.59	83.38	94.00	-10.62	Horizontal
2402	6.38	32.26	38.85	82.14	81.93	94.00	-12.07	Vertical
2441	6.48	32.51	39.25	83.05	82.79	94.00	-11.21	Horizontal
2441	6.48	32.51	39.25	80.42	80.16	94.00	-13.84	Vertical
2480	6.61	32.68	39.81	82.94	82.42	94.00	-11.58	Horizontal
2480	6.61	32.68	39.81	81.31	80.79	94.00	-13.21	Vertical

5.2.2 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
32.910	0.60	13.91	28.16	28.90	15.25	40.00	-24.75	Vertical
91.110	1.11	8.76	27.94	29.12	11.05	43.50	-32.45	Vertical
153.190	1.32	9.18	27.43	29.35	12.42	43.50	-31.08	Vertical
246.310	1.65	12.19	26.93	30.33	17.24	46.00	-28.76	Vertical
404.420	2.22	16.32	27.43	30.17	21.28	46.00	-24.72	Vertical
669.230	2.84	21.24	27.38	30.31	27.01	46.00	-18.99	Vertical
40.670	0.62	11.53	28.09	28.02	12.08	40.00	-27.92	Horizontal
152.220	1.32	9.14	27.44	30.54	13.56	43.50	-29.94	Horizontal
256.980	1.71	12.45	26.88	29.18	16.46	46.00	-29.54	Horizontal
366.590	2.11	15.81	27.20	29.70	20.42	46.00	-25.58	Horizontal
544.100	2.65	18.81	27.67	30.94	24.73	46.00	-21.27	Horizontal
669.230	2.84	21.24	27.38	30.43	27.13	46.00	-18.87	Horizontal

Remark: the data above is tested with QP detector mode.

Above 1GHz

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak
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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
2390	6.28	32.24	39.03	55.68	55.17	74.00	-18.83	Vertical
2400	6.34	32.25	38.87	58.29	58.01	74.00	-15.99	Vertical
4804	9.36	34.04	41.53	52.16	54.03	74.00	-19.97	Vertical
7206	13.38	36.33	40.98	47.39	56.12	74.00	-17.88	Vertical
9608	13.39	36.99	37.56	45.68	58.50	74.00	-15.50	Vertical
12008	16.45	38.80	39.09	43.75	59.91	74.00	-14.09	Vertical
2390	6.28	32.24	39.03	53.42	52.91	74.00	-21.09	Horizontal
2400	6.34	32.25	38.87	56.75	56.47	74.00	-17.53	Horizontal
4804	9.36	34.04	41.53	53.04	54.91	74.00	-19.09	Horizontal
7206	13.38	36.33	40.98	47.75	56.48	74.00	-17.52	Horizontal
9608	13.39	36.99	37.56	45.95	58.77	74.00	-15.23	Horizontal
12008	16.45	38.80	39.09	43.98	60.14	74.00	-13.86	Horizontal

Test mode:	Transmitting	Test channel:	Lowest	Remark:	average
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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
2390	6.28	32.24	39.03	32.45	31.94	54.00	-22.06	Vertical
2400	6.34	32.25	38.87	32.82	32.54	54.00	-21.46	Vertical
4804	9.36	34.04	41.53	33.71	35.58	54.00	-18.42	Vertical
7206	13.38	36.33	40.98	34.17	42.90	54.00	-11.10	Vertical
9608	13.39	36.99	37.56	30.49	43.31	54.00	-10.69	Vertical
12008	16.45	38.80	39.09	29.40	45.56	54.00	-8.44	Vertical
2390	6.28	32.24	39.03	33.66	33.15	54.00	-20.85	Horizontal
2400	6.34	32.25	38.87	33.65	33.37	54.00	-20.63	Horizontal
4804	9.36	34.04	41.53	36.02	37.89	54.00	-16.11	Horizontal
7206	13.38	36.33	40.98	34.35	43.08	54.00	-10.92	Horizontal
9608	13.39	36.99	37.56	30.91	43.73	54.00	-10.27	Horizontal
12008	16.45	38.80	39.09	29.50	45.66	54.00	-8.34	Horizontal

Test mode:	Transmitting	Test channel:	Middle	Remark:	Peak
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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
2400	6.34	32.25	38.87	52.93	52.65	74.00	-21.35	Vertical
2500	5.76	32.30	39.15	51.59	50.50	74.00	-23.50	Vertical
4882	10.57	34.02	40.33	49.69	53.95	74.00	-20.05	Vertical
7323	12.91	36.10	40.40	48.06	56.67	74.00	-17.33	Vertical
9764	13.89	37.10	37.94	45.61	58.66	74.00	-15.34	Vertical
12205	17.95	38.93	39.30	44.22	61.80	74.00	-12.20	Vertical
2400	6.34	32.25	38.87	53.69	53.41	74.00	-20.59	Horizontal
2500	5.76	32.30	39.15	51.27	50.18	74.00	-23.82	Horizontal
4882	10.57	34.02	40.33	52.15	56.41	74.00	-17.59	Horizontal
7323	12.91	36.10	40.40	47.67	56.28	74.00	-17.72	Horizontal
9764	13.89	37.10	37.94	44.98	58.03	74.00	-15.97	Horizontal
12205	17.95	38.93	39.30	44.05	61.63	74.00	-12.37	Horizontal

Test mode:	Transmitting	Test channel:	Middle	Remark:	average
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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
2400	6.34	32.25	38.87	35.84	35.56	54.00	-18.44	Vertical
2500	5.76	32.30	39.15	36.41	35.32	54.00	-18.68	Vertical
4882	10.57	34.02	40.33	33.39	37.65	54.00	-16.35	Vertical
7323	12.91	36.10	40.40	32.01	40.62	54.00	-13.38	Vertical
9764	13.89	37.10	37.94	30.35	43.40	54.00	-10.60	Vertical
12205	17.95	38.93	39.30	29.45	47.03	54.00	-6.97	Vertical
2400	6.34	32.25	38.87	34.52	34.24	54.00	-19.76	Horizontal
2500	5.76	32.30	39.15	34.13	33.04	54.00	-20.96	Horizontal
4882	10.57	34.02	40.33	32.63	36.89	54.00	-17.11	Horizontal
7323	12.91	36.10	40.40	31.59	40.20	54.00	-13.80	Horizontal
9764	13.89	37.10	37.94	30.42	43.47	54.00	-10.53	Horizontal
12205	17.95	38.93	39.30	29.73	47.31	54.00	-6.69	Horizontal

Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
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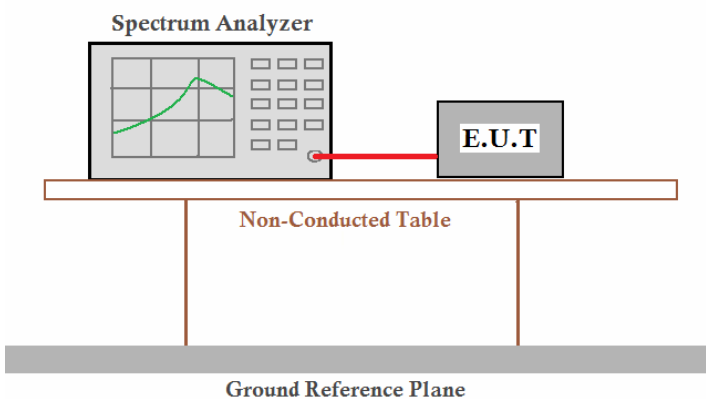
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.5	6.22	32.29	39.53	53.27	55.69	74.00	-18.31	Vertical
2500	5.76	32.30	39.15	52.08	50.99	74.00	-23.01	Vertical
4960	10.43	34.01	41.03	48.95	52.36	74.00	-21.64	Vertical
7440	12.72	35.91	40.01	46.78	55.40	74.00	-18.60	Vertical
9920	14.24	37.23	37.78	44.65	58.34	74.00	-15.66	Vertical
12400	17.55	39.04	39.48	43.00	60.11	74.00	-13.89	Vertical
2483.5	6.22	32.29	39.53	51.98	54.32	74.00	-19.68	Horizontal
2500	5.76	32.30	39.15	49.37	48.28	74.00	-25.72	Horizontal
4960	10.43	34.01	41.03	48.87	52.28	74.00	-21.72	Horizontal
7440	12.72	35.91	40.01	47.93	56.55	74.00	-17.45	Horizontal
9920	14.24	37.23	37.78	44.26	57.95	74.00	-16.05	Horizontal
12400	17.55	39.04	39.48	44.49	61.60	74.00	-12.40	Horizontal

Test mode:	Transmitting	Test channel:	Highest	Remark:	average
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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
2483.5	6.22	32.29	39.53	37.18	36.16	54.00	-17.84	Vertical
2500	5.76	32.30	39.15	35.69	34.60	54.00	-19.40	Vertical
4960	10.43	34.01	41.03	33.81	37.22	54.00	-16.78	Vertical
7440	12.72	35.91	40.01	34.21	42.83	54.00	-11.17	Vertical
9920	14.24	37.23	37.78	30.14	43.83	54.00	-10.17	Vertical
12400	17.55	39.04	39.48	29.72	46.83	54.00	-7.17	Vertical
2483.5	6.22	32.29	39.53	36.94	35.92	54.00	-18.08	Horizontal
2500	5.76	32.30	39.15	35.01	33.92	54.00	-20.08	Horizontal
4960	10.43	34.01	41.03	34.58	37.99	54.00	-16.01	Horizontal
7440	12.72	35.91	40.01	34.36	42.98	54.00	-11.02	Horizontal
9920	14.24	37.23	37.78	30.26	43.95	54.00	-10.05	Horizontal
12400	17.55	39.04	39.48	30.15	47.26	54.00	-6.74	Horizontal

Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

5.3 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:	Keep the EUT in transmitting with modulation.
Test results:	Pass

Measurement Data

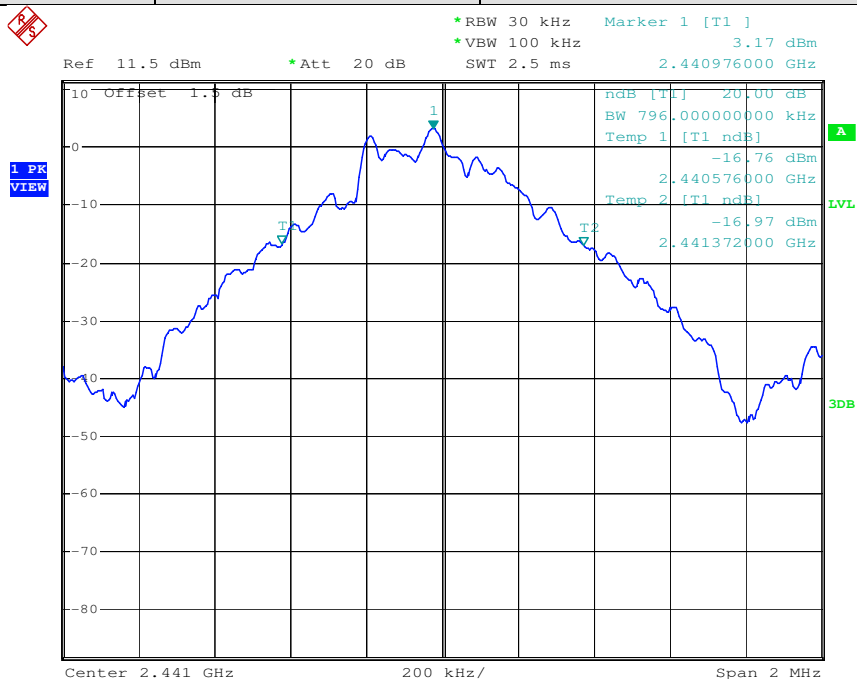
Test channel	20dB bandwidth (MHz)	Results
Lowest	0.796	Pass
Middle	0.796	Pass
Highest	0.792	Pass

Test plot as follows:

Test channel: Lowest



Test channel: Middle



Test channel:	Highest
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