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Report No.: SZEM110700234401

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FCC REPORT

Application No.: SZEM1107002344RF

Applicant: Shenzhen Fuyeda Industry Development Corp., Ltd.

Product Name: MOUSE

Operation Frequency: 2405.2MHz to 2476.2MHz

FCC ID: V4P-MS213OR

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

Date of Receipt 2011-07-20

Date of Test 2011-07-20 to 2011-09-30

Date of Issue 2011-10-17

Test Result : PASS *

Authorized Signature:



Jack Zhang EMC Laboratory 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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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

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3 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)/15.209	Pass
Band edge (Radiated Emission)	15.249(a)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

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

Fail: The EUT does not comply with the essential requirements in the standard.

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Fuyeda Industry Development Corp., Ltd.					
Address of Applicant:	NO.1 Newmen Road, Tongsheng Village, Dalang Street, Bao'an,					
	Shenzhen, China					
Manufacturer/Factory:	Shenzhen Fuyeda Industry Development Corp., Ltd.					
Address of Manufacturer	NO.1 Newmen Road, Tongsheng Village, Dalang Street, Bao'an,					
Factory:	Shenzhen, China					

4.2 General Description of E.U.T.

Product Name:	MOUSE			
Model No.:	MS-213OR			
Trade mark:	NEWMEN			
Operation Frequency:	2405.2MHz to 2476.2MHz			
Channel numbers:	72			
Channel spacing:	1MHz			
Modulation type:	GFSK			
Antenna Type:	Integral			
Power supply:	3.0V DC (2 x 1.5V "AAA" Size Batteries)			

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	2405.2MHz				
The middle channel	2439.2MHz				
The highest channel	2476.2MHz				

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4.3 E.U.T Operation mode

Operating Environment:

Temperature: 24.0 °C
Humidity: 51 % RH
Atmospheric Pressure: 1004 mbar

Test mode:

Transmitting mode: Keep the EUT in Transmitting mode.

4.4 Description of Support Units

The EUT has been tested as an independent unit.

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4.5 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical 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 556682, March 16, 2011

• Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.6 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

No tests were sub-contracted.

4.7 Other Information Requested by the Customer

None.

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4.8 Test Instruments list:

RE in Chamber										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)					
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2012-06-10					
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2012-05-26					
3	EMI Test software	AUDIX	E3	SEL0050	N/A					
4	Coaxial cable	SGS	N/A	SEL0028	2012-05-29					
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2011-11-09					
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2011-11-09					
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2011-11-09					
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2012-05-26					
9	Pre-Amplifier (0.1-26.5GHz) Compliance Directions Systems Inc.		PAP-0126	SEL0168	2011-10-27					
11	Band filter	Amindeon	82346	SEL0094	2012-05-26					

General used equipment									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)				
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2011-11-04				
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2012-03-10				
3	Barometer	ChangChun	DYM3	SEL0088	2012-05-18				

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5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203

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.

E.U.T Antenna:



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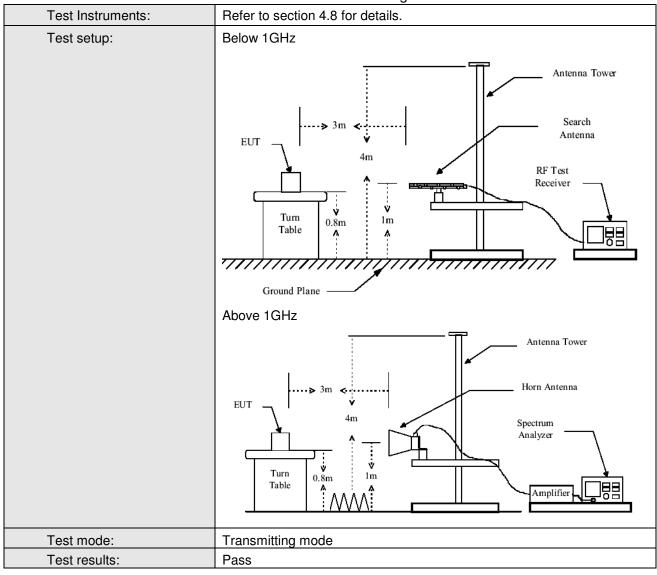
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5.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249 and 15.209								
Test Method:	ANSI C63.10: 2009								
Test Frequency Range:	30MHz to 2500	0MHz							
Test site:	Measurement D	Distance: 3m	(Semi-Anecho	ic Chamber	·)				
Receiver setup:									
·	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak		300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:		Peak	1MHz	10Hz	Average Value				
	Freque	ency	Limit (dBuV		Remark				
(Field strength of the fundamental signal)	2400MHz-24	483.5MHz	94.0		Average Value				
			114.	0	Peak Value				
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark				
(Spurious Emissions)	30MHz-8	88MHz	40.0)	Quasi-peak Value				
	88MHz-2		43.5		Quasi-peak Value				
	216MHz-9		46.0		Quasi-peak Value				
	960MHz-	-1GHz	54.0		Quasi-peak Value				
	Above 1	IGHz	54.0 74.0		Average Value Peak Value				
Limit: (band edge) Test Procedure:	 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. 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. 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. 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 make the measurement. d. For each suspected emission, the EUT was arranged to its wors case and then the antenna was tuned to heights from 1 meter to meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions the did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then report in a data sheet. g. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.								

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Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. 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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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
2405.2	2.99	32.54	39.86	93.44	89.11	114.00	-24.89	Horizontal
2405.2	2.99	32.54	39.86	89.88	85.55	114.00	-28.45	Vertical
2439.2	3.00	32.61	39.89	91.17	86.89	114.00	-27.11	Horizontal
2439.2	3.00	32.61	39.89	89.32	85.04	114.00	-28.96	Vertical
2476.2	3.03	32.67	39.92	92.58	88.36	114.00	-25.64	Horizontal
2476.2	3.03	32.67	39.92	89.34	85.12	114.00	-28.88	Vertical

Note:

Peak Level (Final Level) = Reading Level + Antenna Factor + Cable Loss - Preamp Factor

Remark:

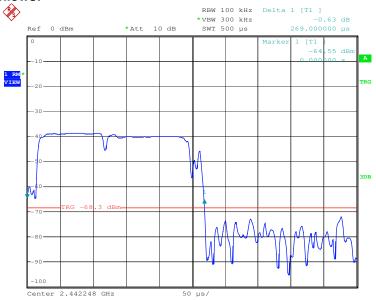
As shown in this section, for field strength of the fundamental signal measurements, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

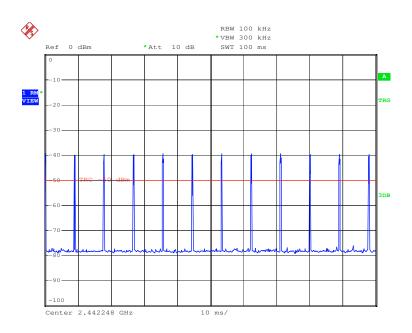
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Average value:									
	Average value=Peak value + PDCF								
Calculate Formula:	PDCF=20 log(Duty cycle)=-30.00								
	Duty cycle= T on time*12 / T period								
Test data:	Ton time =0.269ms								
resi dala.	T period =100ms								

Test plot as follows:





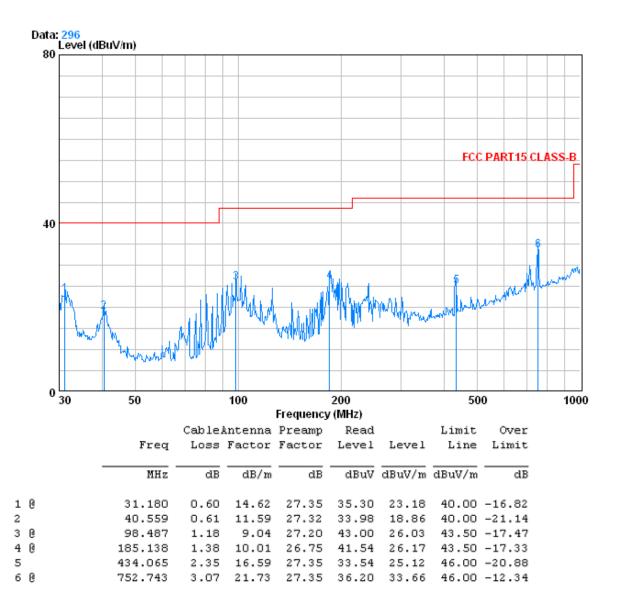
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5.2.2 Spurious Emissions

30MHz~1GHz

Horizontal:

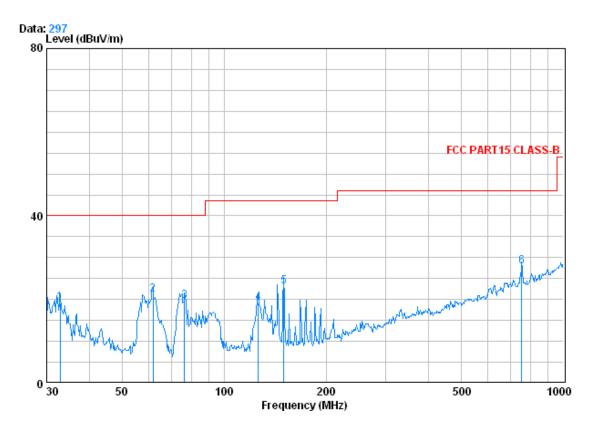


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Vertical:



		Cableàntenna		Preamp Read		Limit		Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	đВ
1	32.864	0.60	13.97	27.35	32.03	19.26	40.00	-20.74
2	61.778	0.80	7.14	27.26	40.53	21.21	40.00	-18.79
3	76.512	1.00	7.43	27.23	38.32	19.52	40.00	-20.48
4	126.329	1.27	7.77	27.03	37.23	19.24	43.50	-24.26
5	150.011	1.32	9.00	26.91	39.78	23.19	43.50	-20.31
6 @	752.743	3.07	21.73	27.35	30.49	27.95	46.00	-18.05

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Remark:

Peak

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Above 1GHz											
Test mode:	Т	ransmitting		Te	Test channel: 24		2405.2MHz Rema		ark:	Peak	
Frequency (MHz)	Cable Loss (dB)	Factor	Pream Facto (dB)	or	Read Level (dBuV)	(Level dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4795.250	4.68	34.73	41.6	3	66.18		63.96	74.	00	-10.04	Vertical
6205.250	5.18	35.94	40.7	4	50.95		51.33	74.00		-22.67	Vertical
7368.500	5.96	35.95	39.7	4	49.67	51.84		74.00		-22.16	Vertical
9906.500	5.98	37.61	37.5	3	46.54		52.60	74.00		-21.40	Vertical
11234.250	6.28	38.45	37.9	6	46.61		53.38	74.	00	-20.62	Vertical
12538.500	6.61	39.42	38.5	0	47.91		55.44	74.	00	-18.56	Vertical
4795.250	4.68	34.73	41.6	3	64.09		61.87	74.	00	-12.13	Horizontal
6522.500	5.26	36.28	40.4	6	51.57		52.65	74.	00	-21.35	Horizontal
7791.500	6.22	36.00	39.3	8	48.92		51.76	74.	00	-22.24	Horizontal
9577.500	5.99	37.29	37.8	3	46.74		52.19	74.	00	-21.81	Horizontal
11269.500	6.29	38.45	37.9	7	46.63		53.40	74.	00	-20.60	Horizontal
11927.500	6.45	38.83	38.2	4	46.87		53.91	74.	00	-20.09	Horizontal

restinioue.	Han	Simuling	16	si channei.	2439.2IVIDZ NEIII		ain.	reak
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
4877.500	4.72	34.59	41.68	61.99	59.62	74.00	-14.38	Vertical
6898.500	5.43	35.90	40.15	50.34	51.52	74.00	-22.48	Vertical
7885.500	6.21	36.00	39.29	48.68	51.60	74.00	-22.40	Vertical
10094.500	6.00	37.82	37.49	46.59	52.92	74.00	-21.08	Vertical
11175.500	6.26	38.46	37.94	46.65	53.43	74.00	-20.57	Vertical
11892.250	6.44	38.80	38.23	46.94	53.95	74.00	-20.05	Vertical
4877.500	4.72	34.59	41.68	62.65	60.28	74.00	-13.72	Horizontal
6346.250	5.22	36.10	40.63	50.33	51.02	74.00	-22.98	Horizontal
7368.500	5.96	35.95	39.74	50.57	52.74	74.00	-21.26	Horizontal
8449.500	6.18	36.18	38.80	47.85	51.41	74.00	-22.59	Horizontal
10623.250	6.13	38.35	37.70	45.91	52.69	74.00	-21.31	Horizontal
12585.500	6.62	39.44	38.52	48.89	56.43	74.00	-17.57	Horizontal

Test channel: 2439 2MHz

Test mode: Transmitting

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74.00

74.00

74.00

-22.48

-21.42

-19.77

Horizontal

Horizontal

Horizontal

Test mode:	Tran	smitting	Т	est channel:	2476.2MF	Hz Re	mark:	Peak
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
4936.250	4.75	34.48	41.72	61.11	58.62	74.00	-15.38	Vertical
6628.250	5.29	36.18	40.38	50.87	51.96	74.00	-22.04	Vertical
7662.250	6.23	36.00	39.48	48.33	51.08	74.00	-22.92	Vertical
9119.250	6.12	36.74	38.22	46.83	51.47	74.00	-22.53	Vertical
10529.250	6.10	38.31	37.67	46.28	53.02	74.00	-20.98	Vertical
12597.250	6.62	39.44	38.52	47.42	54.96	74.00	-19.04	Vertical
4936.250	4.75	34.48	41.72	63.58	61.09	74.00	-12.91	Horizontal
6710.500	5.31	36.09	40.30	50.47	51.57	74.00	-22.43	Horizontal
7756.250	6.22	36.00	39.39	48.91	51.74	74.00	-22.26	Horizontal

46.14

45.84

47.19

51.52

52.58

54.23

Remark:

9542.250

10529.250

11927.500

6.00

6.10

6.45

37.23

38.31

38.83

As shown in this section, for frequencies above 1GHz, the 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. So, only the peak measurements were shown in the report.

For harmonic emissions (pulse signal), Average value=Peak value + PDCF

37.85

37.67

38.24

PDCF < Average limite-Peak limit = -20dB,and the peak value complies with the peak limit, so deems to the Average value complies with the average limit.

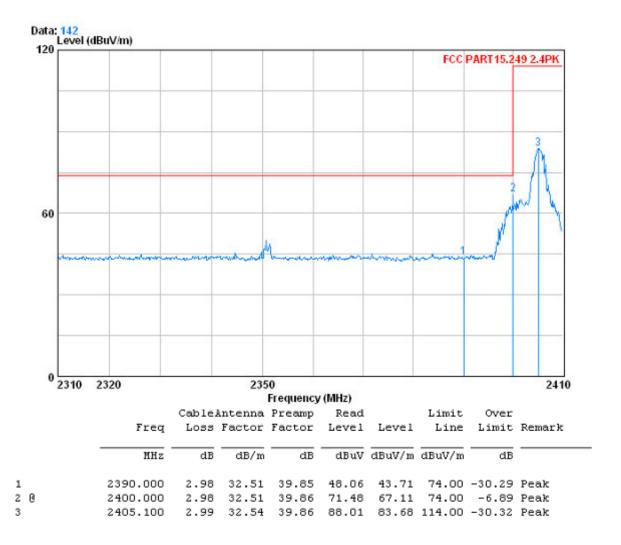
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5.2.3 Band edge (Radiated Emission)						
Test mode: Transmitting		Test channel:	Lowest	Remark:	Peak	

Vertical:

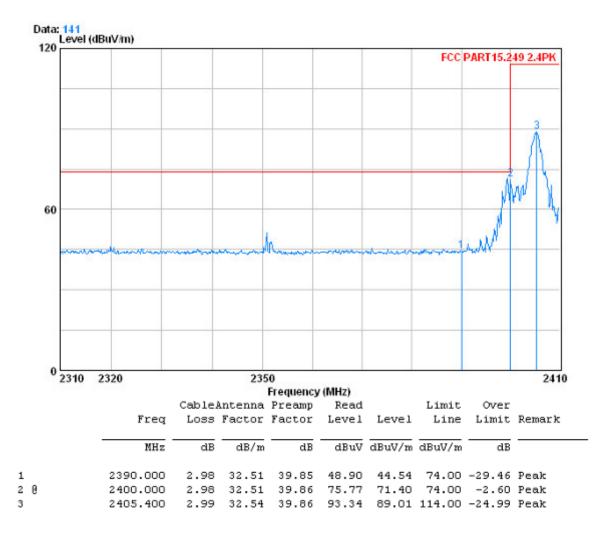


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Horizontal:



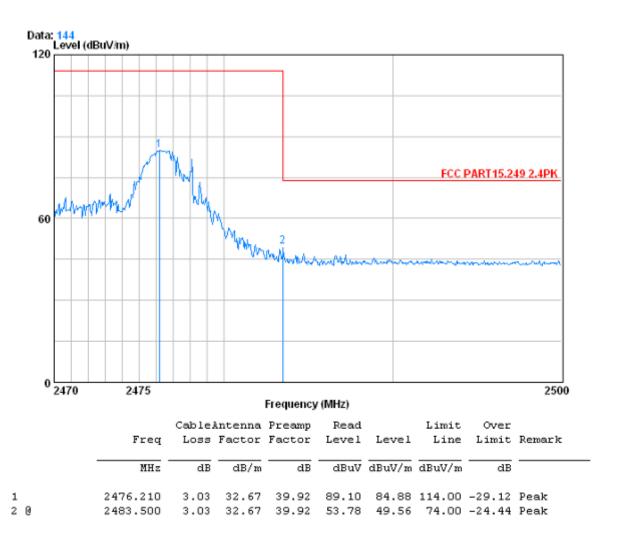
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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
			9		

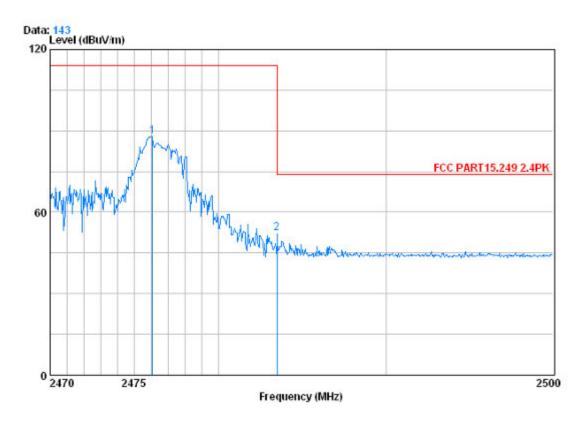
Vertical:



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Horizontal:



	Freq			Preamp Factor	Read Level		Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 0	2476.060 2483.500			39.92 39.92					

For band-edge radiated emissions (pulse signal), Average value=Peak value + PDCF

PDCF < Average limite-Peak limit = -20dB,and the peak value complies with the peak limit, so deems to the

Average value complies with the average limit.

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5.3 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215				
Test Method:	ANSI C63.10: 2009				
Receiver setup:	RBW=10kHz, VBW=30kHz, detector: Peak				
Limit:	Operation Frequency range 2400MHz-2483.5MHz				
Test Procedure:	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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 4.8 for details.				
Test mode:	Transmitting mode				
Test results:	Pass				

Measurement Data

model of the state									
Test channel	20dB bandwidth (kHz)	Results							
Lowest	1980	Pass							
Middle	1995	Pass							
Highest	2580	Pass							

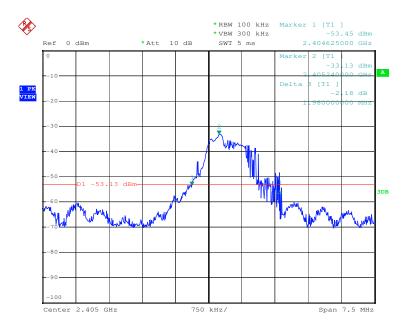
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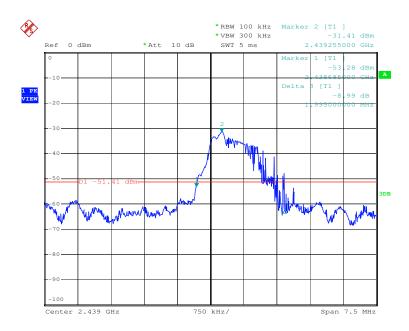
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Test plot as follows:

Test channel: Lowest



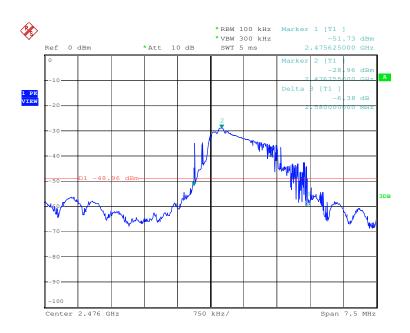
Test channel: Middle



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Test channel: Highest



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