No. 1 Workshop, M-10, Middle section, Science & Technology

Park, Shenzhen, Guangdong, China 518057

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Email: +86 (0) 753 2671 0594 Page : 1 of 23

FCC REPORT

Application No.: SZEMO110200498RF(SGS HK NO.:2026164EL)

Applicant: Educational Insights

Product Name: CLASSROOM JEOPARDY!

Operation Frequency: 2405MHz to 2477MHz

FCC ID: MJO-EI-8099

Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2009

Date of Receipt 2011-02-10

Date of Test 2011-02-10 to 2011-03-04

Date of Issue 2011-03-08

Test Result : PASS *

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

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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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:	Educational Insights
Address of Applicant:	152 Walnut Street, Suite 201, Gardena CA 90248

4.2 General Description of E.U.T.

Product Name:	CLASSROOM JEOPARDY!
Model No.:	EI-8099
Request Age Grading:	5+
Country of Origin:	Hong Kong
Country of Destination:	US
Operation Frequency:	2405MHz to 2477MHz
Channel numbers:	16
Modulation type:	FSK
Antenna Type:	PCB antenna
Antenna gain:	-2dBi
Power supply:	3.0V DC (2 * 1.5V "AAA" Size Batteries)

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Operation Frequency@Channel List										
Channel 29 4 67 32 7 65 36 10										
Frequency	2430	2405	2468	2433	2408	2466	2437	2411		
Channel	62	38	8	59	45	12	76	40		
Frequency	2463	2439	2409	2460	2446	2413	2477	2441		

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	2405MHz
The middle channel	2439MHz
The Highest channel	2477MHz

4.3 E.U.T Operation mode

Operating Environment:

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

Test mode:

Transmitting mode: Keep the EUT in Transmitting mode at low channel, middle channel and

high channel.

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4.4 Description of Support Units

The EUT has been tested independently.

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, June 27, 2008.

• 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 i	RE in Chamber									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)				
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2010-06-17	2011-06-17				
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2010-11-05	2011-11-05				
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A				
4	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18				
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2010-11-09	2011-11-09				
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2010-11-09	2011-11-09				
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2010-11-09	2011-11-09				
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2010-06-02	2011-06-02				
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2010-10-27	2011-10-27				
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	2010-06-04	2011-06-04				
11	Band filter	Amindeon	82346	SEL0094	2010-06-02	2011-06-02				

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5 Test results and Measurement Data

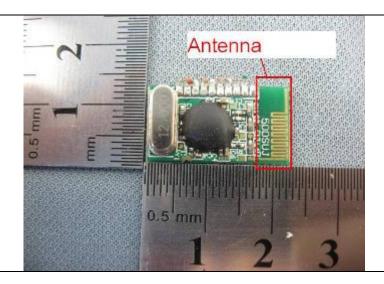
5.1 Antenna requirement:

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: Antenna gain: -2dBi



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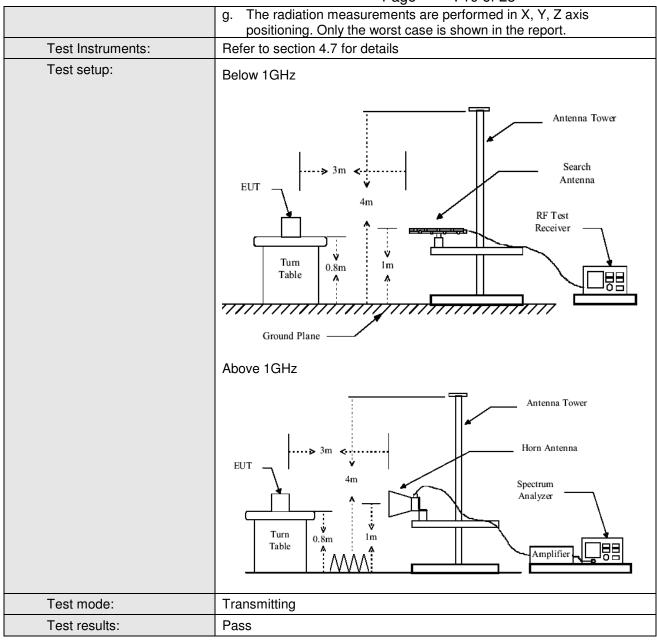
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5.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249 and 15.209						
Test Method:	ANSI C63.10: 2	009					
Test Frequency Range:	30MHz to 25000)MHz					
Test site:	Measurement D	istance: 3m	(Semi-Anecho	ic Chambe	r)		
Receiver setup:							
	Frequency	Detector	RBW	VBW	Remark		
	30MHz-1GHz	Quasi-peak		300KHz	Quasi-peak Value		
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value		
Limit:		1 Can	1101112	10112	Average value		
(Field strength of the	Freque	ency	Limit (dBuV/	m @3m)	Remark		
fundamental signal)	2400MHz-24	83 5MHz	94.0		Average Value		
	2400W112 24	OO.OIVII IZ	114.	0	Peak Value		
Limit:			1: ::/ ID 1//				
(Spurious Emissions)	Freque		Limit (dBuV/		Remark		
	30MHz-8 88MHz-21		40.0 43.5		Quasi-peak Value Quasi-peak Value		
	216MHz-9		46.0		Quasi-peak Value		
	960MHz-		54.0		Quasi-peak Value		
	Abovo 1	Above 1GHz)	Average Value		
	Above i	GHZ	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:	 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 to make the measurement. 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. 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 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. 						

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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)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Over Limit (dB)	polarization
2405	2.99	32.54	39.86	94.12	89.79	114.00	-24.21	Horizontal
2405	2.99	32.54	39.86	96.19	91.86	114.00	-22.14	Vertical
2439	3.00	32.61	39.89	94.55	90.27	114.00	-23.73	Horizontal
2439	3.00	32.61	39.89	95.18	90.90	114.00	-23.10	Vertical
2477	3.03	32.67	39.92	93.30	89.08	114.00	-24.92	Horizontal
2477	3.03	32.67	39.92	94.27	90.05	114.00	-23.95	Vertical

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

Average value:

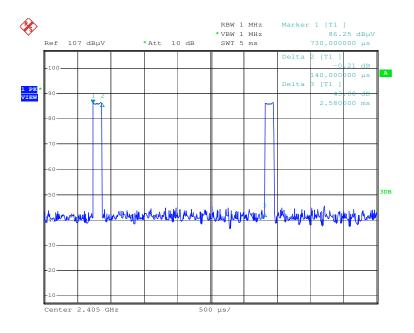
Avoiago valao:								
Frequency (MHz)	Peak Level (dBuV/m)	I PDCE (dB) I		I PDCE (dB) I Laval I Limit I		Over Limit (dB)	polarization	
2405	89.79	-25.31	64.48	94.00	-29.52	Horizontal		
2405	91.86	-25.31	66.55	94.00	-27.45	Vertical		
2439	90.27	-25.31	64.96	94.00	-29.04	Horizontal		
2439	90.90	-25.31	65.59	94.00	-28.41	Vertical		
2477	89.08	-25.31	63.77	94.00	-30.23	Horizontal		
2477	90.05	-25.31	64.74	94.00	-29.26	Vertical		

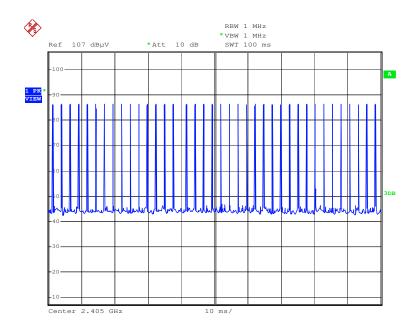
PDCF Calculate Formula:
Average value=Peak value + PDCF (pulse desensitization correction factor)
PDCF=20 log(Duty cycle)= -25.31dB
Duty cycle= T on time / T period = 0.054
Ton time = 140µs
T period = 2580us

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Test plot as follows:





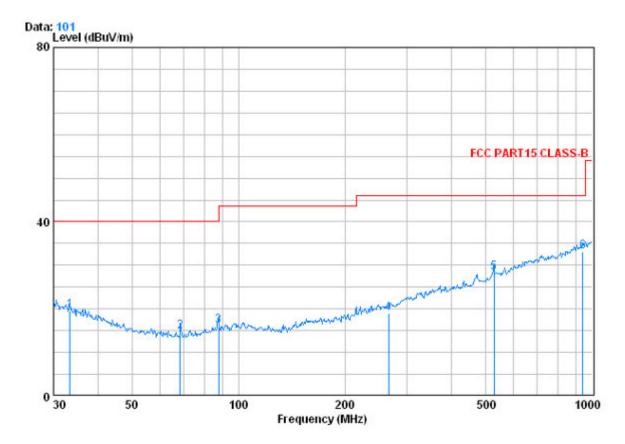
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5.2.2 Spurious Emissions

30MHz~1GHz

Horizontal:

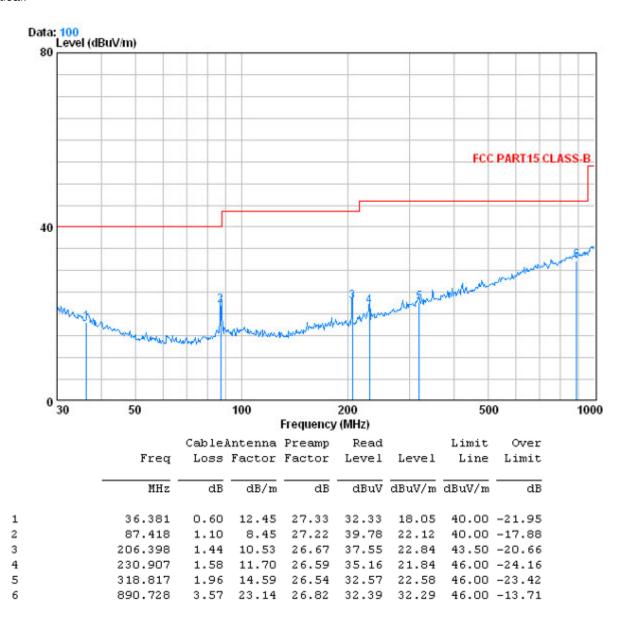


		Cableàntenna		Preamp Read			Limit	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB
1	33.328	0.60	13.68	27.34	32.67	19.61	40.00	-20.39
2	68.391	0.80	6.94	27.25	34.31	14.80	40.00	-25.20
3	87.725	1.10	8.48	27.22	33.84	16.21	40.00	-23.79
4	265.676	1.75	12.63	26.49	31.03	18.92	46.00	-27.08
5	528.246	2.63	18.56	27.65	34.75	28.28	46.00	-17.72
6 0	942.131	3.64	23.30	26.58	32.69	33.06	46.00	-12.94

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Vertical:



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Above 1G	Above 1GHz									
Test mode:	Tran	smitting	Test char	nnel: L	owest	Remark:	Pe	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		
1800.416	2.71	30.32	39.48	47.92	41.47	74.00	-32.53	Vertical		
3672.110	3.88	33.41	40.80	48.96	45.45	74.00	-28.55	Vertical		
4821.757	4.70	34.68	41.64	54.51	52.25	74.00	-21.75	Vertical		
6561.030	5.27	36.25	40.43	48.67	49.76	74.00	-24.24	Vertical		
7489.599	6.10	36.00	39.62	48.44	50.92	74.00	-23.08	Vertical		
10139.450	6.01	37.88	37.51	45.31	51.69	74.00	-22.31	Vertical		
2965.192	3.30	33.35	40.27	47.39	43.77	74.00	-30.23	Horizontal		
4096.875	4.23	34.08	41.11	47.66	44.86	74.00	-29.14	Horizontal		
5230.963	4.86	34.63	41.58	49.60	47.51	74.00	-26.49	Horizontal		
6611.326	5.28	36.20	40.40	48.89	49.97	74.00	-24.03	Horizontal		
8022.456	6.20	36.01	39.16	48.40	51.45	74.00	-22.55	Horizontal		
10036.730	5.98	37.76	37.47	45.15	51.42	74.00	-22.58	Horizontal		

Test mode:	Test mode: Transm		Test channel: Middle		Remark:	Pe	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
4107.316	4.23	34.13	41.12	48.18	45.42	74.00	-28.58	Vertical
4871.103	4.72	34.59	41.68	52.27	49.90	74.00	-24.10	Vertical
6478.053	5.25	36.26	40.51	49.72	50.72	74.00	-23.28	Vertical
7547.013	6.17	36.00	39.57	48.30	50.90	74.00	-23.10	Vertical
9370.083	6.05	37.03	37.99	46.14	51.23	74.00	-22.77	Vertical
10587.850	6.12	38.33	37.69	44.67	51.43	74.00	-22.57	Vertical
2839.613	3.23	33.17	40.19	48.29	44.50	74.00	-29.50	Horizontal
3709.691	3.91	33.45	40.83	48.08	44.61	74.00	-29.39	Horizontal
4501.492	4.49	35.20	41.40	48.20	46.49	74.00	-27.51	Horizontal
6283.164	5.20	36.04	40.68	49.34	49.90	74.00	-24.10	Horizontal
7961.425	6.21	36.00	39.23	47.78	50.76	74.00	-23.24	Horizontal
10888.510	6.19	38.46	37.81	44.94	51.78	74.00	-22.22	Horizontal

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Test mode:	Tran	smitting	Test char	nnel: I	Highest	Remark:	Remark: 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
3143.979	3.44	33.34	40.41	47.40	43.77	74.00	-30.23	Vertical
3983.750	4.14	33.80	41.02	49.23	46.15	74.00	-27.85	Vertical
4933.497	4.75	34.51	41.72	51.45	48.99	74.00	-25.01	Vertical
6032.401	5.13	35.74	40.89	49.92	49.90	74.00	-24.10	Vertical
8104.559	6.20	36.04	39.10	48.85	51.99	74.00	-22.01	Vertical
10453.950	6.09	38.24	37.64	45.48	52.17	74.00	-21.83	Vertical
3700.260	3.91	33.45	40.81	48.29	44.84	74.00	-29.16	Horizontal
5125.515	4.82	34.53	41.68	50.03	47.70	74.00	-26.30	Horizontal
6156.505	5.17	35.88	40.79	49.87	50.13	74.00	-23.87	Horizontal
7566.249	6.19	36.00	39.56	49.40	52.03	74.00	-21.97	Horizontal
9562.854	6.00	37.27	37.83	45.89	51.33	74.00	-22.67	Horizontal
11574.460	6.36	38.47	38.10	46.29	53.02	74.00	-20.98	Horizontal

Remark:

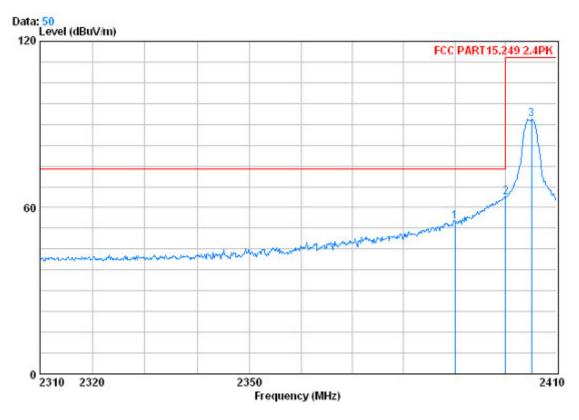
As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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

Vertical:



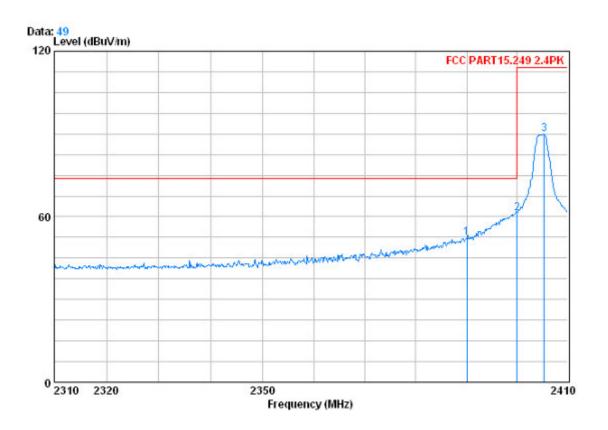
		Freq			Preamp Factor	Read Level		Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0	2390.000	2.98	32.51	39.85	59.40	55.05	74.00	-18.95
2	0	2400.000	2.98	32.51	39.86	68.24	63.87	74.00	-10.13
3		2405.100	2.99	32.54	39.86	96.08	91.75	114.00	-22.25

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Horizontal:



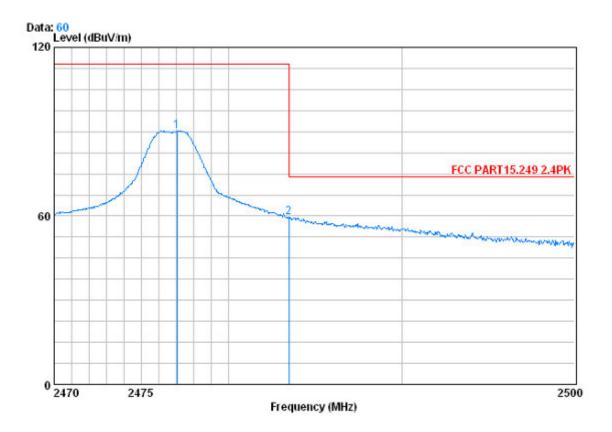
			Cablei	lntenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0	2390.000	2.98	32.51	39.85	56.75	52.40	74.00	-21.60
2	0	2400.000	2.98	32.51	39.86	65.59	61.22	74.00	-12.78
3		2405.400	2.99	32.54	39.86	94.11	89.79	114.00	-24.21

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
			3		

Vertical:

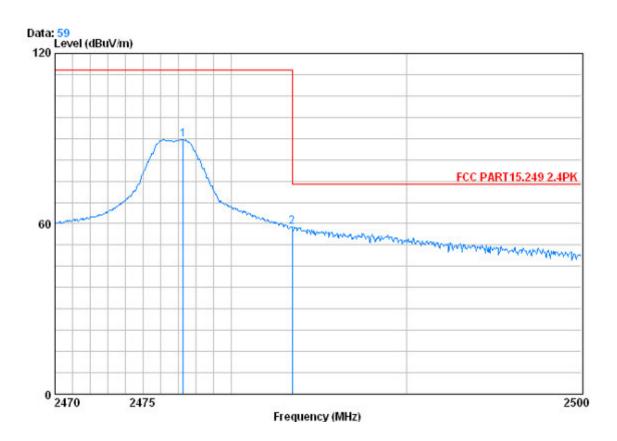


			Cable.	Antenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0	2477.050	3.03	32.67	39.92	94.39	90.17	114.00	-23.83
2	ρ	2483.500	3.03	32.67	39.92	63.80	59.58	74.00	-14.42

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Horizontal:



		_			Preamp			Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2477.290			39.92				
2	Ø	2483.500	3.03	32.67	39.92	63.03	58.81	74.00	-15.19

Remark:

For the pulse emissions measurement, Average value = Peak value + PDCF and Average limit = Peak limit - 20dB. Since the device is pulse emission, PDCF = -25.31dB < -20dB and Peak value has met Peak limit.

Base on the above state, average value should meet average limit. So, only the peak measurements were shown in the report.

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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=100KHz, VBW=300KHz, 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.						
	 Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth. 						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 4.7 for details						
Test mode:	Transmitting						
Test results:	Pass						

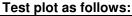
Measurement Data

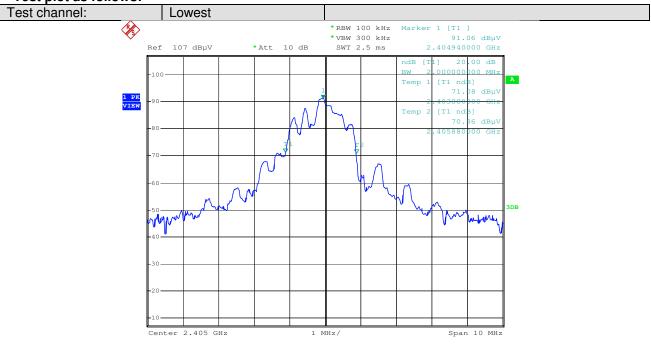
Test channel	20dB bandwidth (MHz)	Results
Lowest	2.000	Pass
Middle	2.040	Pass
Highest	2.120	Pass

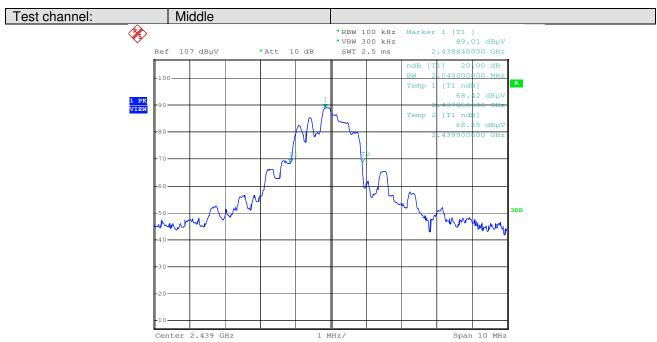
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