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Report No.: SZEMO10120757001

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FCC REPORT

Application No.: SZEMO101207570RF

Applicant/Manufacturer/Factory: PIXEL ENTERPRISE LIMITED

Product Name: Wireless Timer Remote Control

Operation Frequency Range: 2401.9 MHz to 2476.9MHz

FCC ID: X5SWTCTW-282TX

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

Date of Receipt 2010-12-14

Date of Test 2010-12-15 to 2010-12-28

Date of Issue 2010-12-30

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
AC Power Line Conducted Emission	15.207	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/Manufacturer/ Factory:	PIXEL ENTERPRISE LIMITED
Address of Applicant/	RM1228, 12/F, ONE FRAND TOWER, 639 NATHAN RD, MONGKOK,
Manufacturer/Factory:	KOWLOON, HONG KONG

4.2 General Description of E.U.T.

Product Name:	Wireless Timer Remote Control
Model No.:	TW-282TX
Operation Frequency:	2401.9 MHz to 2476.9MHz
Channel numbers:	16
Modulation type:	FSK
Antenna Type:	Integral
Antenna gain:	0dBi
Power supply:	3.0V DC (2 * 1.5V "AAA" Size Batteries)



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Channel number	Frequency(MHz)
CH 00	2401.9
CH 01	2406.4
CH 02	2409.2
CH 03	2418.4
CH 04	2420.9
CH 05	2429.4
CH 06	2435.4
CH 07	2438.4
CH 08	2444.9
CH 09	2446.4
CH 10	2451.4
CH 11	2459.9
CH 12	2461.9
CH 13	2469.4
CH 14	2470.9
CH 15	2476.9

Channel	Frequency(MHz)
The lowest channel	2401.9
The middle channel	2444.9
The highest channel	2476.9

Remark:

Complete product formed by TW-282TX and TW-282RX, only the test result of TW-282TX is recorded in this report.

4.3 E.U.T Operation mode

Test Environment:					
Temperature:	24.0 °C				
Humidity:	52 % RH				
Atmospheric Pressure:	1008 mbar				
Test mode:					
Tx mode	The EUT transmitted the continuous modulation test signal at the special channel.				

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4.4 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.

4.5 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.

4.6 Other Information Requested by the Customer

None.



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4.7 Test Instruments list

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

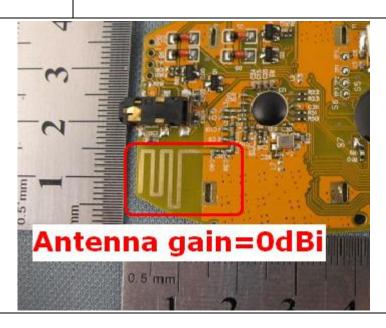
5.1 Antenna requirement:

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:



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5.2 Radiated Emission

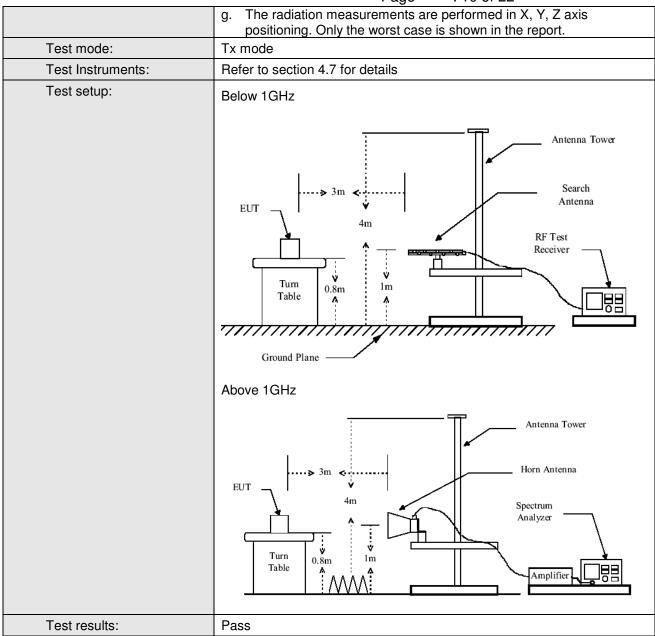
Test Requirement:	FCC Part15 C Section 15.249 and 15.209						
Test Method:	ANSI C63.10: 2009						
Test Frequency Range:	30MHz to 25000	30MHz to 25000MHz					
Test site:	Measurement D	istance: 3m	(Semi-Anecho	ic Chamber	·)		
Receiver setup:							
·	Frequency Detector		RBW	VBW	Remark		
	30MHz-1GHz Quasi-peal			300KHz	Quasi-peak Value		
	Above 1GHz	Peak -	1MHz	3MHz	Peak Value		
12.22		Peak	1MHz	10Hz	Average Value		
Limit:	Freque	ancv	Limit (dBuV/	/m @3m)	Remark		
(Field strength of the			94.0		Average Value		
fundamental signal)	2400MHz-24	183.5MHz	114.		Peak Value		
Limit:							
(Spurious Emissions)	Freque	ency	Limit (dBuV/	m @3m)	Remark		
(Opanicas Imagicina)	30MHz-8		40.0		Quasi-peak Value		
	88MHz-2		43.5		Quasi-peak Value		
	216MHz-9		46.0		Quasi-peak Value		
	960MHz-	·IGHZ	54.0 54.0		Quasi-peak Value Average Value		
	Above 1	GHz	74.0		Peak Value		
(band edge) Test Procedure:	fundamental or whichever is the a. The EUT was the ground	to the general elesser atten as placed on at a 3 meter	al radiated emi uation. the top of a ro semi-anechoic	ssion limits tating table camber. T			
	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, quasipeak 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

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV)	Peak Level (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	polarization
2401.9	2.62	32.51	39.86	72.43	67.70	94.00	26.30	Horizontal
2401.9	2.62	32.51	39.86	79.99	75.26	94.00	18.74	Vertical
2444.9	2.63	32.61	39.89	72.21	67.55	94.00	26.45	Horizontal
2444.9	2.63	32.61	39.89	78.81	74.15	94.00	19.85	Vertical
2476.9	2.63	32.67	39.92	71.84	67.21	94.00	26.79	Horizontal
2476.9	2.63	32.67	39.92	80.36	75.74	94.00	18.26	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.



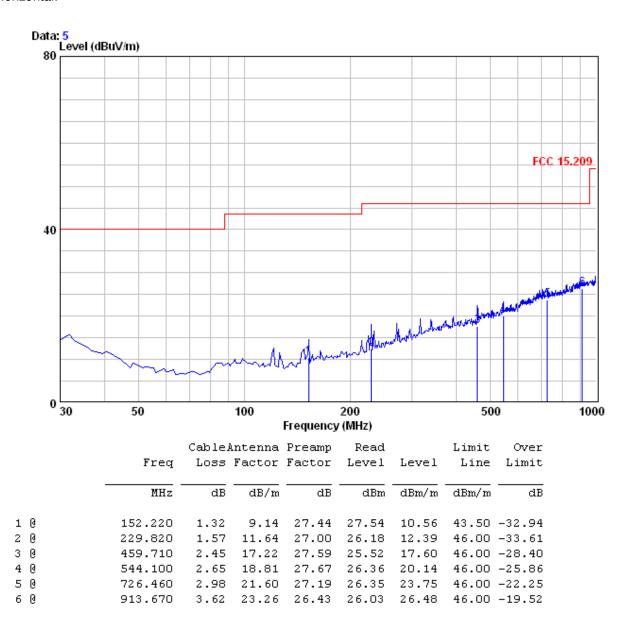
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5.2.2 Spurious Emissions

30MHz~1GHz

Horizontal:



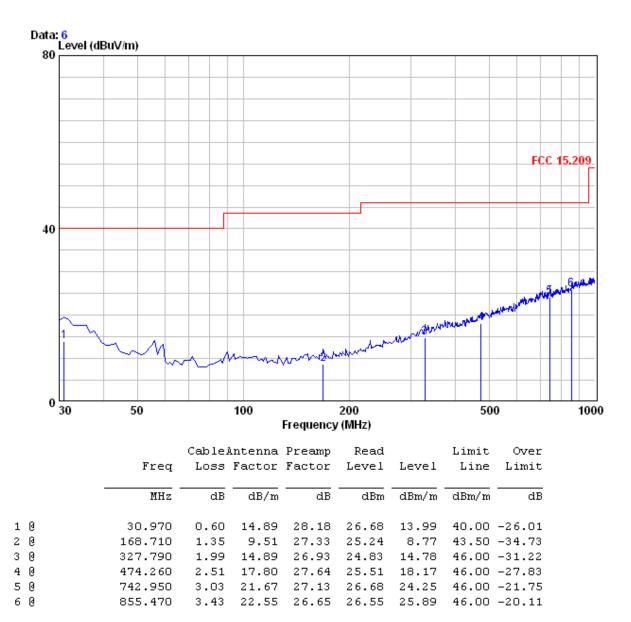
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Vertical:



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Test mode:

Tx mode

SGS-CSTC Standards Technical Services Ltd.

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Peak

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Remark:

Above 1GHz										
Test mode:	Test mode: Tx mode		Test channel: 2401.9MHz			Remark:	Remark: Peal			
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		
2176	2.57	32.11	39.70	47.95	42.93	74.00	-31.07	Vertical		
4816	5.65	34.70	41.64	48.93	47.64	74.00	-26.36	Vertical		
7108	4.89	35.84	39.97	49.77	50.53	74.00	-23.47	Vertical		
9268	4.85	36.91	38.09	45.65	49.32	74.00	-24.68	Vertical		
11068	5.30	38.49	37.89	45.05	50.95	74.00	-23.05	Vertical		
12460	5.54	39.37	38.47	44.68	51.12	74.00	-22.88	Vertical		
1792	3.05	30.32	39.48	47.78	41.67	74.00	-32.33	Horizontal		
3484	3.00	33.21	40.66	48.68	44.23	74.00	-29.77	Horizontal		
4924	5.99	34.51	41.72	49.35	48.13	74.00	-25.87	Horizontal		
7072	4.72	35.83	39.99	48.50	49.06	74.00	-24.94	Horizontal		
9784	4.94	37.49	37.65	44.20	48.98	74.00	-25.02	Horizontal		
11764	5.50	38.66	38.18	44.49	50.47	74.00	-23.53	Horizontal		

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
2188	2.51	32.14	39.71	47.76	42.70	74.00	-31.30	Vertical
4888	5.90	34.57	41.70	48.86	47.63	74.00	-26.37	Vertical
7132	5.05	35.86	39.94	48.63	49.60	74.00	-24.40	Vertical
9124	5.26	36.74	38.21	46.89	50.68	74.00	-23.32	Vertical
11260	5.24	38.45	37.97	43.70	49.42	74.00	-24.58	Vertical
12904	6.82	39.56	38.65	43.66	51.39	74.00	-22.61	Vertical
1960	3.18	31.43	39.55	48.34	43.40	74.00	-30.60	Horizontal
4444	3.77	35.06	41.36	49.88	47.35	74.00	-26.65	Horizontal
6664	4.50	36.14	40.35	50.19	50.48	74.00	-23.52	Horizontal
8668	5.42	36.33	38.60	46.99	50.14	74.00	-23.86	Horizontal
10564	4.70	38.33	37.68	44.09	49.44	74.00	-24.56	Horizontal
12292	5.34	39.19	38.39	45.00	51.14	74.00	-22.86	Horizontal

Test channel:

2444.9MHz

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Test mode: Tx mode	Test channel:	2476.9MHz	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
2020	3.15	31.83	39.58	48.92	44.32	74.00	-29.68	Vertical
3664	3.30	33.41	40.79	49.44	45.36	74.00	-28.64	Vertical
4948	6.04	34.48	41.74	49.71	48.49	74.00	-25.51	Vertical
7432	6.38	35.97	39.67	48.79	51.47	74.00	-22.53	Vertical
9904	4.62	37.61	37.53	45.53	50.23	74.00	-23.77	Vertical
12376	5.35	39.28	38.43	45.16	51.36	74.00	-22.64	Vertical
1960	3.18	31.43	39.55	47.72	42.78	74.00	-31.22	Horizontal
3424	3.03	33.23	40.62	47.83	43.47	74.00	-30.53	Horizontal
4948	6.04	34.48	41.74	48.86	47.64	74.00	-26.36	Horizontal
7456	6.20	35.99	39.66	47.70	50.23	74.00	-23.77	Horizontal
9904	4.62	37.61	37.53	43.81	48.51	74.00	-25.49	Horizontal
12388	5.36	39.30	38.43	45.11	51.34	74.00	-22.66	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.



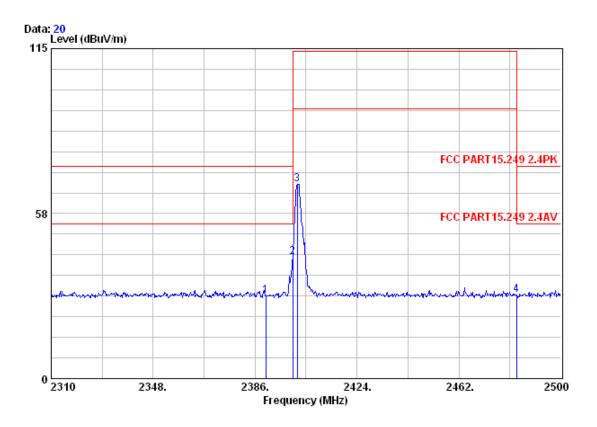
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5.2.3 Band edge (Radiated Emission)

	-		0.404.08.41.1			
l lest mode:		I lest channel.	1 2401.9MHz	I Romark	l Peak	
	I I X IIIUUG	i i esi channei.				

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	2390.000	2.62	32.51	39.85	33.62	28.90	74.00	-45.10
2	2400.000	2.62	32.51	39.86	46.95	42.22	74.00	-31.78
3	2401.770	2.62	32.51	39.86	72.43	67.70	114.00	-46.30
4	2483.500	2.63	32.67	39.92	33.63	29.00	74.00	-45.00

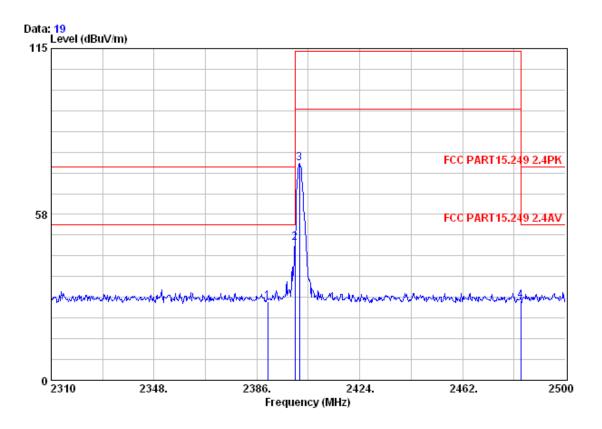
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Vertical:



			Cablei	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		2390.000	2.62	32.51	39.85	31.89	27.17	74.00	-46.83
2	0	2400.000	2.62	32.51	39.86	52.28	47.55	74.00	-26.45
3		2401.770	2.62	32.51	39.86	79.99	75.26	114.00	-38.74
4		2483.500	2.63	32.67	39.92	32.25	27.63	74.00	-46.37

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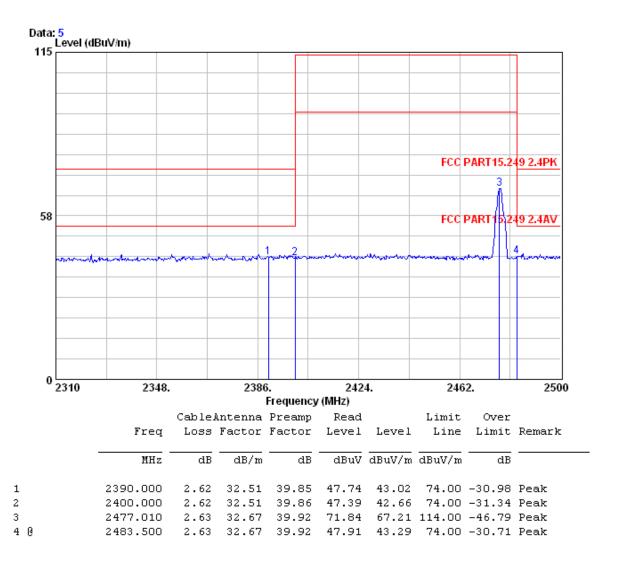


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Test mode:	Tx mode	Test channel:	2476.9MHz	Remark:	Peak

Horizontal:



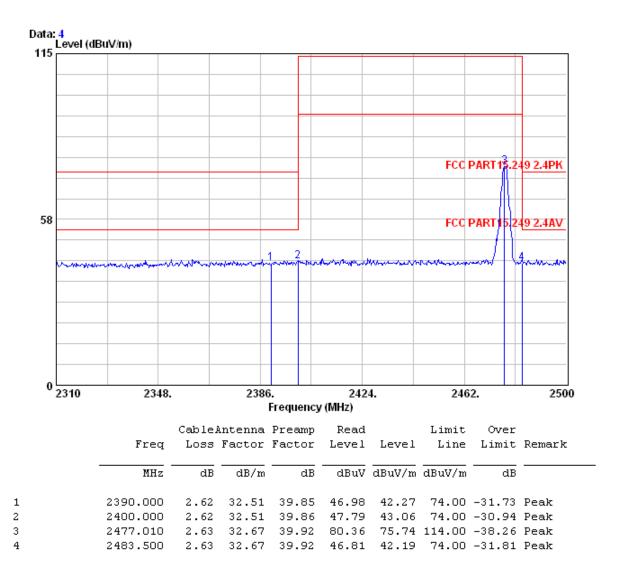
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Vertical:



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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			
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 4.7 for details			
Test mode:	Tx mode			
Test results:	Pass			

Measurement Data

Test channel	20dB bandwidth (kHz)	Results
2401.9 MHz	936	
2444.9 MHz	968	
2476.9 MHz	888	

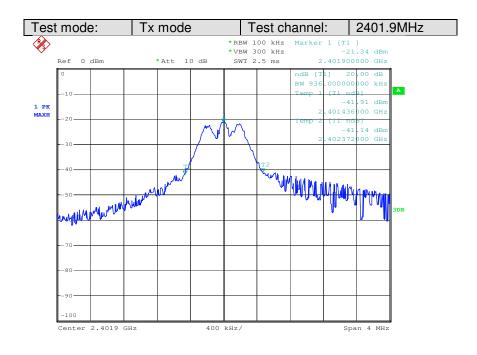
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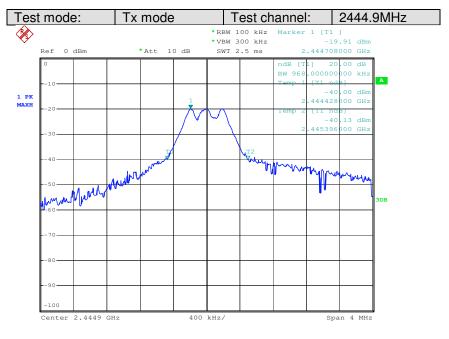
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Test plot as follows:



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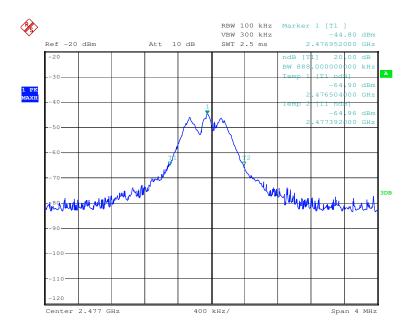
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