

Date of Issue: JAN. 09, 2014 Report No: F13121306

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

FOR

Mechanical Keyboard

Model: FK303QPCW, FK303QPCW X-XX (X=A~Z)

Trade Name: Matias

Issued to

Matias Corporation 221 Narinia Crescent, Newmarket, Ontario, L3X 2E1, Canada

Issued by

PEP Certification Corp.



Open Site		No. 120, Ln. 5, Hudong St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
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Date of Issue: JAN. 09, 2014 Report No: F13121306

TABLE OF CONTENTS	2
1. GENERAL INFORMATION	3
1.1 DESCRIPTION OF THE TESTED SAMPLES	4
2. TEST METHODOLOGY	6
2.1 GENERAL TEST PROCEDURES	7 8
3. TEST AND MEASUREMENT EQUIPMENT	10
3.1 CALIBRATION	
4. SECTION 15.249 REQUIREMENTS (FUNDAMENTAL/ HARMONICS)	12
4.1 TEST SETUP	12 12
5. SECTION 15.205 REQUIREMENTS (BAND EDGE)	23
5.1 TEST SETUP	23 23 24
6. SECTION 15.209 REQUIREMENTS (GENERAL RADIATED EMISSION)	29
6.1 TEST SETUP	
7. SECTION 15.207 REQUIREMENTS (POWERLINE CONDUCTED EMISSIONS)	34
APPENDIX 1 PHOTOS OF TEST CONFIGURATION APPENDIX 2 PHOTOS OF EUT	



Date of Issue: JAN. 09, 2014 Report No: F13121306

1. GENERAL INFORMATION

Applicant: Matias Corporation

Address : 221 Narinia Crescent, Newmarket, Ontario, L3X 2E1, Canada

Manufacturer : Shenzhen Long Island Forever Technology Co., Ltd.

Address : 4/F Building A YiShiDa Science & Technology Park Guanlan

Huanguan South Road Baoan District Shezhen China

EUT : Mechanical Keyboard

Model Name : FK303QPCW, FK303QPCW X-XX (X=A~Z)

Model : The difference between FK303QPCW, FK303QPCW X-XX

Differences (X=A~Z) is difference printing and language. The model,

FK303QPCW, is the testing sample, and the final test data are shown on this test report. shown on this test report.

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.4-2003. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC part 15 subpart C

Receipt Date: 12/13/2013 Final Test Date: 01/08/2014

Taipei, Taiwan JAN. 09, 2014

Alex Chou / Manager

(Place) (Date) (Signature) Designation Number: TW1075



Date of Issue: JAN. 09, 2014 Report No: F13121306

1.1 DESCRIPTION OF THE TESTED SAMPLES

EUT Name : Mechanical Keyboard

Model Number :: FK303QPCW

FCCID Number WKMLAPTOPPRO24

Receipt Date : 12/13/2013

Input Voltage : 3.7 Vdc (From Li-ion Battery)

Power From ☐Inside ☐Outside

□Adaptor ☑BATTERY □AC Power Source

□DC Power Source □Support Unit PC

Operate Frequency : Refer to the channel list as described below

Modulation Technique : GFSK

Number of Channels : 78

Channel spacing : □N/A ☑ 1 MHz

Operating Mode : □Simplex ☑Duplex

Antenna Type : ☑integral antenna: PCB Printing

□a dedicated antenna

Antenna gain -0.3 dBi



Date of Issue: JAN. 09, 2014 Report No: F13121306

Channels	Frequencies (MHz)	Channels	Frequencies (MHz)
0	2402	40	2442
1	2403	41	2443
2	2404	42	2444
3	2405	43	2445
4	2406	44	2446
5	2407	45	2447
6	2408	46	2448
7	2409	47	2449
8	2410	48	2450
9	2411	49	2451
10	2412	50	2452
11	2413	51	2453
12	2414	52	2454
13	2415	53	2455
14	2416	54	2456
15	2417	55	2457
16	2418	56	2458
17	2419	57	2459
18	2420	58	2460
19	2421	59	2461
20	2422	60	2462
21	2423	61	2463
22	2424	62	2464
23	2425	63	2465
24	2426	64	2466
25	2427	65	2467
26	2428	66	2468
27	2429	67	2469
28	2430	68	2470
29	2431	69	2471
30	2432	70	2472
31	2433	71	2473
32	2434	72	2474
33	2435	73	2475
34	2436	74	2476
35	2437	75	2477
36	2438	76	2478
37	2439	77	2479
38	2440		
39	2441		



Date of Issue: JAN. 09, 2014

Report No: F13121306

2. **TEST METHODOLOGY**

All testing as described bellowed were performed in accordance with ANSI C63.4:2003 and FCC CFR 47 Part 15 Subpart C.

2.1 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.4:2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.



Date of Issue: JAN. 09, 2014 Report No: F13121306

2.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 (²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2.3 DESCRIPTION OF TEST MODES

The EUT was tested under following modes:

Modes:

1. Continuous transmitting

Channels:

- 1. 2.402 GHz (Lowest Channel)
- 2. 2.440 GHz (Middle Channel)
- 3. 2.479 GHz (Highest Channel)

² Above 38.6

⁽b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



Date of Issue: JAN. 09, 2014 Report No: F13121306

2.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS

USetup Diagram

See test photographs attached in appendix 1 for the actual connections between EUT and support equipment.

EUT



Date of Issue: JAN. 09, 2014 Report No: F13121306

Support Equipment

Peripherals Devices:

	OUTSIDE SUPPORT EQUIPMENT								
No.	No. Equipment	Model	Serial	FCC ID/	Trade	Data Cable	Power		
110.	Ечартоп	Model	No.	BSMI ID	name	Bata Gabio	Cord		
	N/A								
		IN	ISIDE SUPI	PORT EQL	IIPMENT				
No.	Equipment	Model	Serial	FCC ID/	Trade	Data Cable	Power		
INO.	Equipment		No.	BSMI ID	name	Data Cable	Cord		
1.	MB	FK303QP CW	N/A	N/A	N/A	N/A	N/A		
2.	Li-ion Battery	LLZ-003	N/A	N/A	GSP	N/A	N/A		

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test

Grounding: Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.

Date of Issue: JAN. 09, 2014 Report No: F13121306

3. TEST AND MEASUREMENT EQUIPMENT

3.1 CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

3.2 EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

TABLELIST OF TEST AND MEASUREMENT EQUIPMENT

Test Site	Instrument	Manufacturer	Model No.	S/N	Next Cal. Date
	Receiver R&S		ESHS10	830223/008	Nov. 23, 2014
	Spectrum Analyzer	ADVANTEST	R3261C	87120343	Mar. 18, 2014
Conduction	RF Cable	MIYAZAKI & Anritsu	RG58A0 & MP59B	M79094	Apr. 08, 2014
Conduction	L.I.S.N	Rolf Heine Hochfrequenztechni k	NNB-2/16z	98062	Jan. 16, 2014
	EMI Test Receiver R&S		EAHS-10	1093.4495.03	Mar. 21, 2014
	Click Analyzer Schaffner		DIA1512C	5218	June 15, 2014
	Spectrum Analyzer	Nex1	NS-265	NO5044006	Aug. 04, 2014
	Antenna	Schwarzbeck	VULB 9161	4077	Feb. 02, 2014
	RF Cable	N/A	N/A	N/A	Jan.18, 2014
Radiation	Pre-Amp	Schaffner	CPA-9232	1012	Jan. 20, 2014
	Spectrum Analyzer Nex1		NS-265	NO5044006	Oct. 02, 2014
	1GHz~18GHz RF Cable	EMCI	SMA(male) 4M+7M (1~18G)	N/A	Oct. 04, 2014



Date of Issue: JAN. 09, 2014 Report No: F13121306

Antenna ~18GHz	COM-POWER	AH-118	10056	Oct.04, 2014
mplifier //~18G	EMCI	EMC051845	500M~18G	Oct.16, 2014

[•] CALIBRATION INTERVAL OF INSTRUMENTS LISTED ABOVE IS ONE YEAR

Date of Issue: JAN. 09, 2014 Report No: F13121306

4. SECTION 15.249 REQUIREMENTS (FUNDAMENTAL/ HARMONICS)

4.1 TEST SETUP

Refer to paragraph 6.1.

4.2 LIMIT

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBµV/m at 3-meter)	Detector
902 - 928		
2400 – 2483	114	Peak
5725 - 5875		
902 - 928		
2400 – 2483	94	AV
5725 - 5875		

Fundamental Frequency (MHz)	Field Strength of Harmonics (dBµV/m at 3-meter)	Detector	
902 - 928			
2400 – 2483	74	Peak	
5725 - 5875			
902 - 928			
2400 – 2483	54	AV	
5725 - 5875			

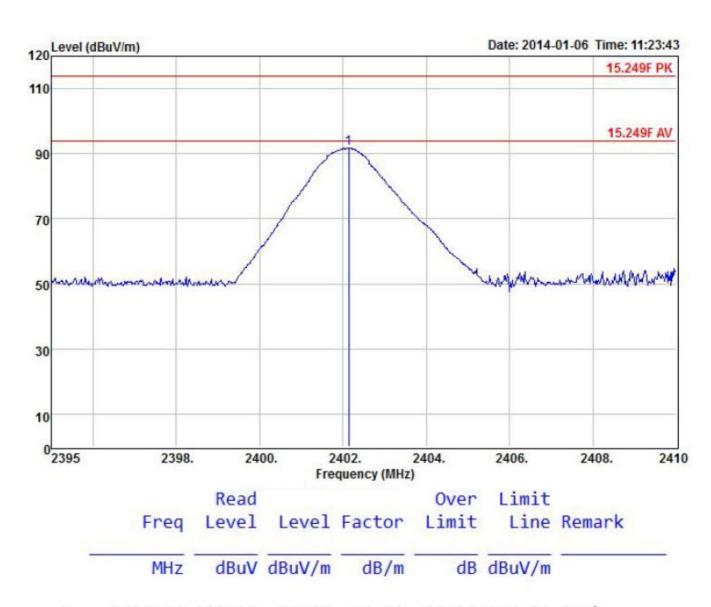
4.3 RESULT: PASSED

4.4 TEST DATA:

Date of Issue: JAN. 09, 2014 Report No: F13121306

Fundamental

Lowest Channel-Horizontal

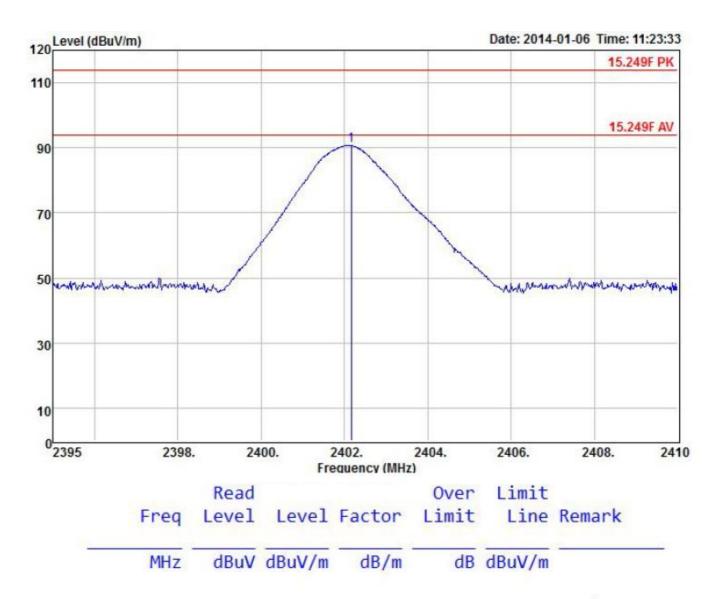


1 2402.14 108.33 91.65 -16.68 -22.35 114.00 Peak

Date of Issue: JAN. 09, 2014 Report No: F13121306

Fundamental

Lowest Channel-Vertical



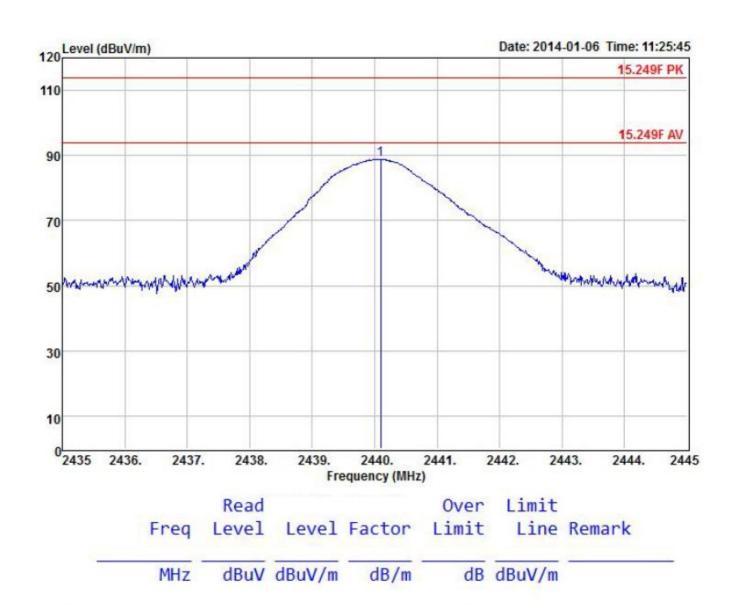
1 2402.17 107.47 90.79 -16.68 -23.21 114.00 Peak



Date of Issue: JAN. 09, 2014 Report No: F13121306

Fundamental

Middle Channel-Horizontal



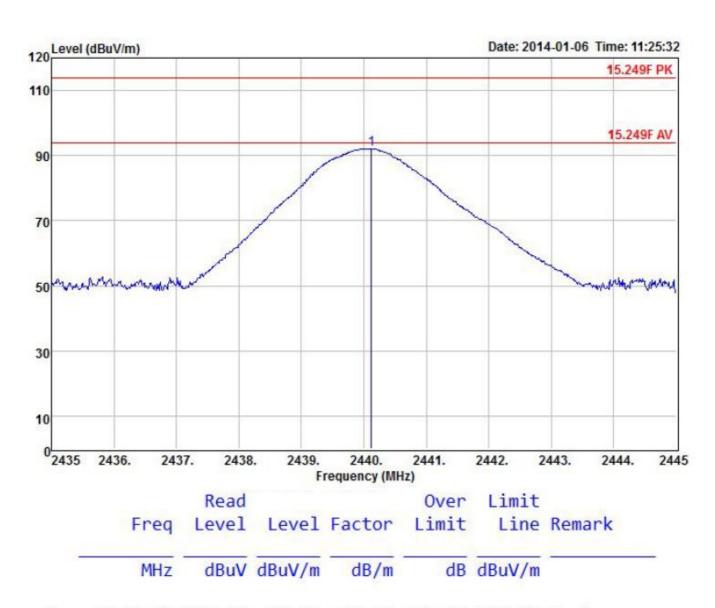
1 2440.10 105.40 88.83 -16.57 -25.17 114.00 Peak



Date of Issue: JAN. 09, 2014 Report No: F13121306

Fundamental

Middle Channel-Vertical

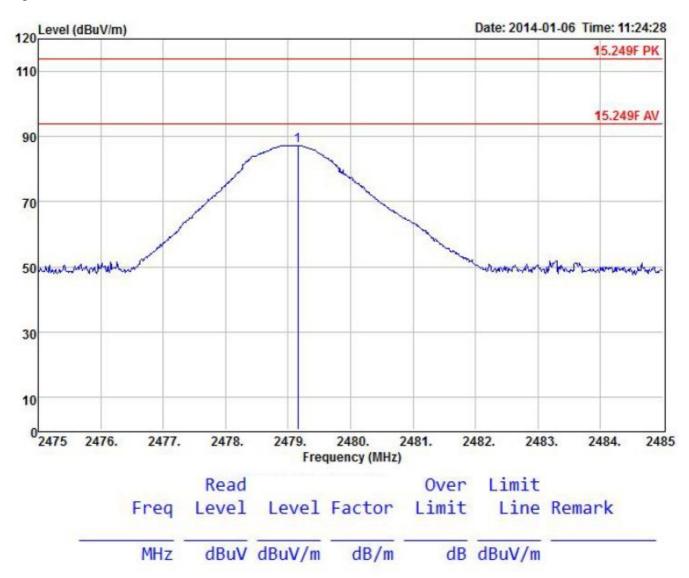


1 2440.12 108.74 92.17 -16.57 -21.83 114.00 Peak

Date of Issue: JAN. 09, 2014 Report No: F13121306

Fundamental

Highest Channel-Horizontal

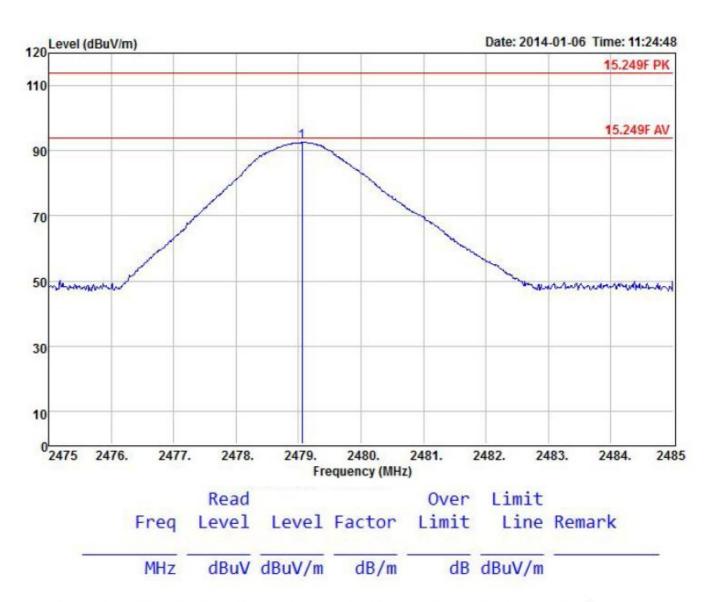


1 2479.16 103.81 87.34 -16.47 -26.66 114.00 Peak

Date of Issue: JAN. 09, 2014 Report No: F13121306

Fundamental

Highest Channel-Vertical



1 2479.06 109.04 92.57 -16.47 -21.43 114.00 Peak

Date of Issue: JAN. 09, 2014 Report No: F13121306

Harmonics

Lowest Channel-Horizontal

	Freq	Read Level	Level	Factor		Limit Line	Remark
	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	
1	4825.00	59.68	50.03	-9.65	-23.97	74.00	Peak
2	7202.50	47.81	45.50	-2.31	-28.50	74.00	Peak
3	9610.00	44.60	45.25	0.65	-28.75	74.00	Peak

Lowest Channel-Vertical

	Freq	Read Level	Level	Factor	4 5 50	Limit Line	Remark
	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	-
1	4825.00	62.54	52.89	-9.65	-21.11	74.00	Peak
2	7202.50	45.94	43.63	-2.31	-30.37	74.00	Peak
3	9610.00	43.38	44.03	0.65	-29.97	74.00	Peak

Date of Issue: JAN. 09, 2014 Report No: F13121306

Harmonics

Middle Channel-Horizontal

	Freq	Read Level	Level	Factor		Limit Line	Remark
	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	
1	4900.00	58.42	49.11	-9.31	-24.89	74.00	Peak
2	7322.50	46.10	44.03	-2.07	-29.97	74.00	Peak
3	9760.00	44.75	45.64	0.89	-28.36	74.00	Peak

Harmonics

Middle Channel-Vertical

	Freq	Read Level	Level	Factor		Limit Line	Remark
	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	
1	4900.00	61.08	51.77	-9.31	-22.23	74.00	Peak
2	7322.50	46.39	44.32	-2.07	-29.68	74.00	Peak
3	9760.00	43.50	44.39	0.89	-29.61	74.00	Peak



Date of Issue: JAN. 09, 2014 Report No: F13121306

Harmonics

Highest Channel-Horizontal

	Freq	Read Level	Level	Factor		Limit Line	Remark
	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	-
1	4975.00	57.06	48.08	-8.98	-25.92	74.00	Peak
2	7435.00	47.12	45.31	-1.81	-28.69	74.00	Peak
3	9917.50	45.31	46.50	1.19	-27.50	74.00	Peak

Harmonics

Highest Channel-Vertical

	Freq	Read Freq Level Level Factor		Limit Line	Remark		
	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	
1	4975.00	60.95	51.97	-8.98	-22.03	74.00	Peak
2	7435.00	46.15	44.34	-1.81	-29.66	74.00	Peak
3	9917.50	44.23	45.42	1.19	-28.58	74.00	Peak

Note:

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
- 3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
- 4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
- 5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW



Date of Issue: JAN. 09, 2014 Report No: F13121306

6. Peak detector measurement data will represent the worst case results.

7. "---" denotes the data which is not available.

Date of Issue: JAN. 09, 2014 Report No: F13121306

5. SECTION 15.205 REQUIREMENTS (BAND EDGE)

5.1 TEST SETUP

Refer to paragraph 6.1.

5.2 LIMIT

Restricted Bands:

t			
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Operation within the bands:

902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)		
1.705-30	30 (at 30-meter)	49.5		
30-88	100	40		
88-216	150	43		
216-960	200	46		
Above 960	500	54		

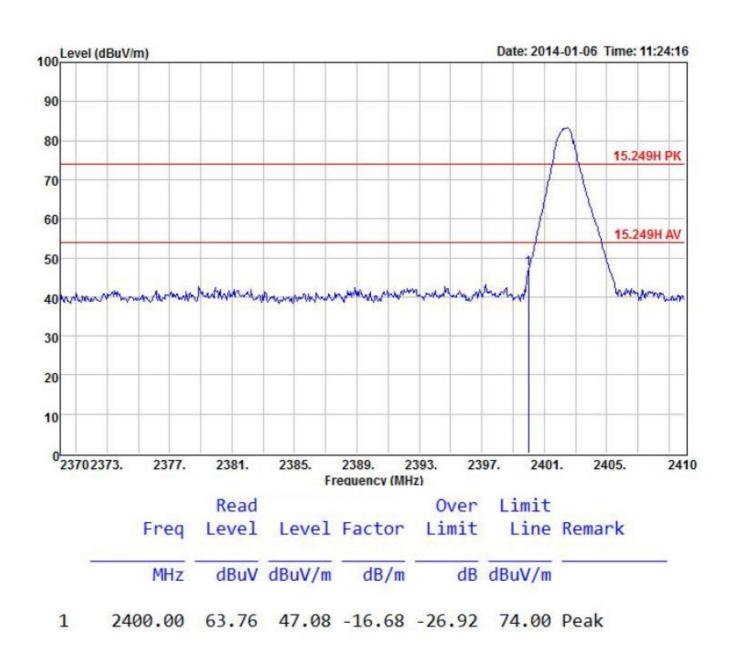


Date of Issue: JAN. 09, 2014 Report No: F13121306

5.3 RESULT: PASSED

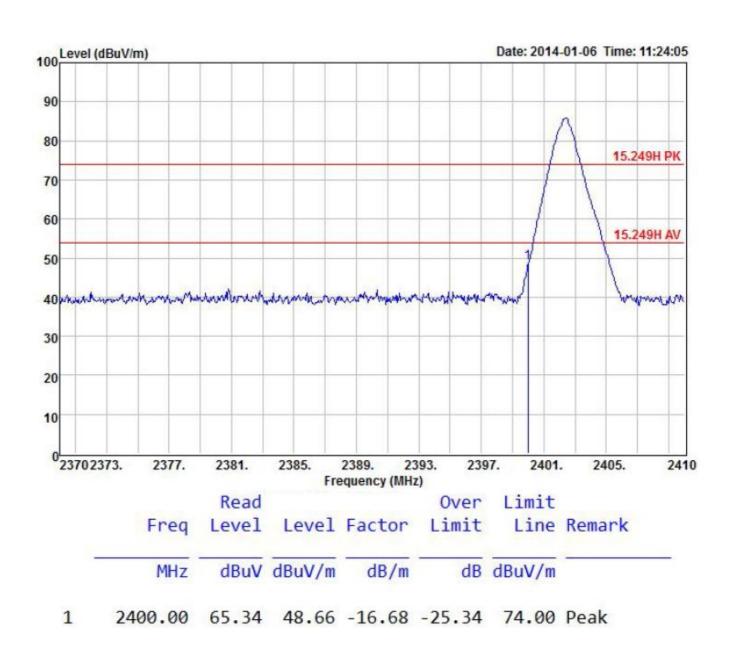
5.4 TEST DATA:

Lowest Channel-Horizontal



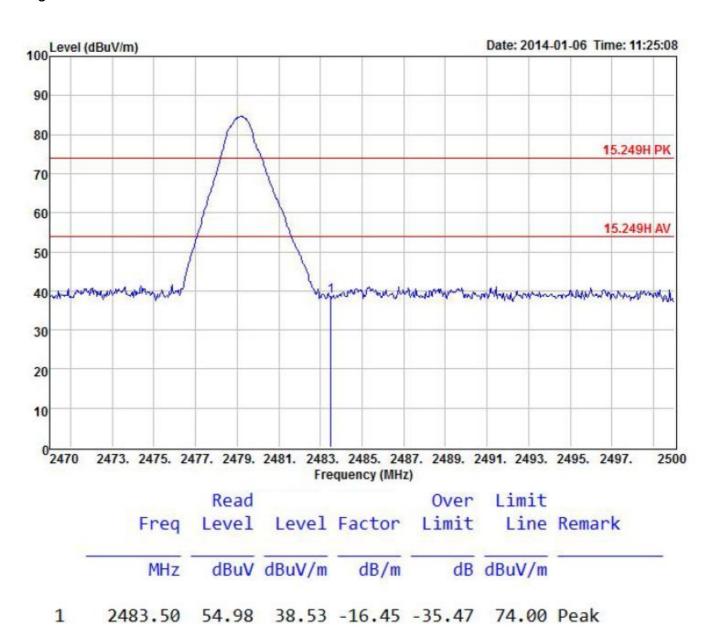
Date of Issue: JAN. 09, 2014 Report No: F13121306

Lowest Channel-Vertical



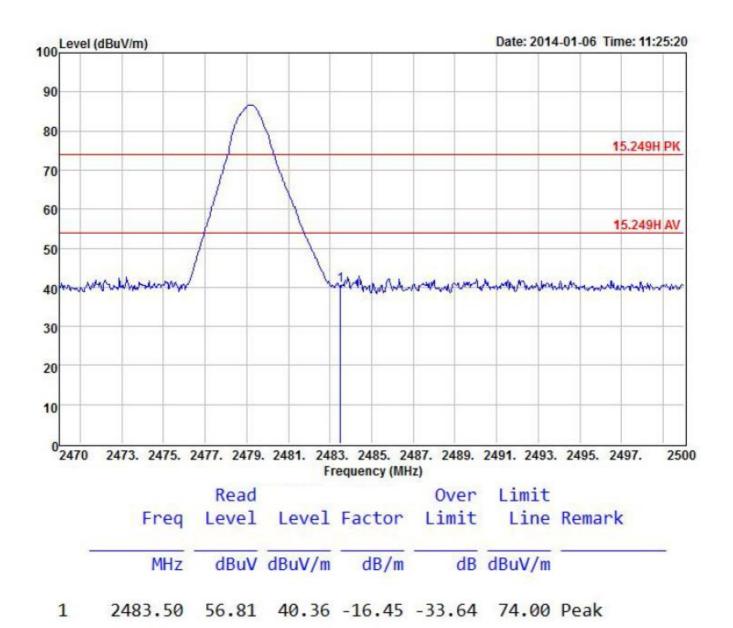
Date of Issue: JAN. 09, 2014 Report No: F13121306

Highest Channel-Horizontal



Date of Issue: JAN. 09, 2014 Report No: F13121306

Highest Channel-Vertical



Note:

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.



Date of Issue: JAN. 09, 2014 Report No: F13121306

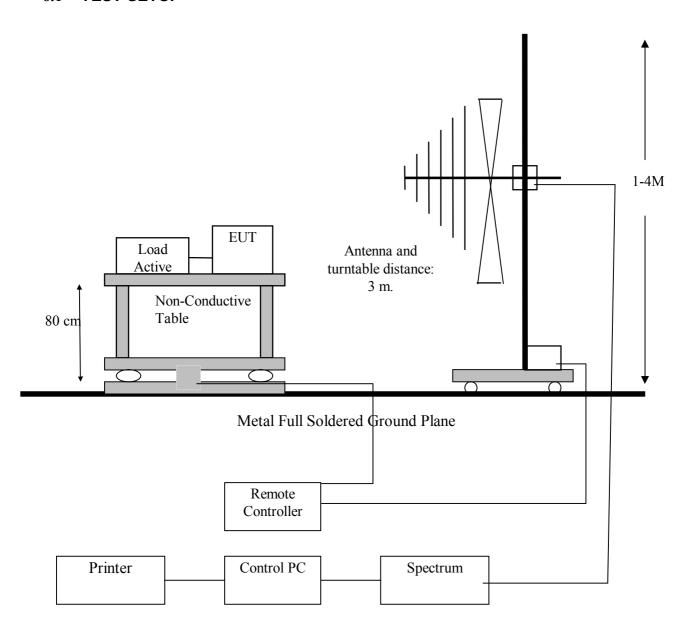
- 3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
- 4. Measurements above 1000 MHz, Peak detector setting: use a 1 MHz RBW, a 3 MHz VBW.
- 5. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10 Hz VBW.
- 6. Peak detector measurement data will represent the worst case results.



Date of Issue: JAN. 09, 2014 Report No: F13121306

6. SECTION 15.209 REQUIREMENTS (GENERAL RADIATED EMISSION)

6.1 TEST SETUP



Date of Issue: JAN. 09, 2014 Report No: F13121306

6.2 LIMIT

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
1.705-30	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500*	3

^{*}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under

other sections of this Part, e.g., Sections 15.231 and 15.241.

In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)		
1.705-30	30 (at 30-meter)	49.5		
30-88	100	40		
88-216	150	43		
216-960	200	46		
Above 960	500	54		



Date of Issue: JAN. 09, 2014 Report No: F13121306

6.3 TEST PROCEDURE

- 1. The EUT was placed on a turntable, which was 0.8m above ground plane.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT was set at 3m away from the receiving antenna, which was varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was maximized by changing the polarization of receiving antenna, both

horizontal and vertical.

6. Repeated above procedures until the measurements for all frequencies are completed.

6.4 RESULT: PASSED



Date of Issue: JAN. 09, 2014 Report No: F13121306

6.5 TEST DATA:

All frequencies not described in this test report and within the range of the general radiated emission limits are not detectable significantly. The table as below is representing worst emissions found.

Highest Channel (worst emissions found)

Horizontal

	Freq	Read Level	Level	Factor	Over Limit	The state of the s	Remark
_	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	
1	72.68	48.73	30.89	-17.84	-9.11	40.00	QP
2	149.31	49.60	34.94	-14.66	-8.06	43.00	QP
3	220.12	53.28	36.79	-16.49	-9.21	46.00	QP
4	386.96	49.30	37.57	-11.73	-8.43	46.00	QP
5	522.76	43.86	35.56	-8.30	-10.44	46.00	QP
6	745.86	36.09	33.05	-3.04	-12.95	46.00	QP

Vertical

	Freq	Read Level	Level	Factor	Over Limit		Remark
-	MHz	dBuV	dBuV/m	dB/m	dB	dBuV/m	-
1	73.65	46.57	28.58	-17.99	-11.42	40.00	QP
2!	149.31	52.64	37.98	-14.66	-5.02	43.00	QP
3	224.00	50.76	34.45	-16.31	-11.55	46.00	QP
4	522.76	42.41	34.11	-8.30	-11.89	46.00	QP
5	745.86	34.82	31.78	-3.04	-14.22	46.00	QP
6	903.97	34.19	34.54	0.35	-11.46	46.00	QP



Date of Issue: JAN. 09, 2014 Report No: F13121306

Note:

- 1. Emission level = Reading level + Correction factor
- 2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
- 3. All emissions as described above were determining by rotating the EUT through three orthogonal axes to maximizing the emissions if the EUT belongs to hand-held or body-worn devices.
- 4. Measurements from 9 kHz to 150 kHz, Peak detector setting: 100 Hz RBW
- 5. Measurements from 150 kHz to 30MHz, Peak detector setting: 10 kHz RBW
- 6. Measurements from 30 MHz to 1000 MHz, Peak detector setting: 100 kHz RBW
- 7. Measurements from 9 kHz to 150 kHz, CISPR Quasi-Peak detector: 200 Hz RBW
- 8. Measurements from 150 kHz to 30MHz, CISPR Quasi-Peak detector: 9 kHz RBW
- 9. Measurements from 30 MHz to 1000 MHz, CISPR Quasi-Peak detector: 120 kHz RBW
- 10. Peak detector measurement data will represent the worst case results.



Date of Issue: JAN. 09, 2014 Report No: F13121306

7. SECTION 15.207 REQUIREMENTS (POWERLINE CONDUCTED EMISSIONS)

The EUT is powered by the battery; therefore this test item is not applicable.