

FCC PART 15.249

TEST REPORT

For

Cadent Ltd.

17 Ha'Taasiya st., Or Yehuda, Israel

FCC ID: UZ2EM10578

Report Type: Original Report	Product Type: 2.4G RF dongle
Test Engineer:	<u>Jimmy Xiao</u> <i>Jimmy Xiao</i>
Report Number:	<u>RSZ120116002-00</u>
Report Date:	<u>2012-02-17</u>
Reviewed By:	<u>Merry Zhao</u> <i>Merry Zhao</i> EMC Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government.

* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY	3
TEST FACILITY	4
SYSTEM TEST CONFIGURATION.....	5
DESCRIPTION OF TEST CONFIGURATION	5
EUT EXERCISE SOFTWARE	5
EQUIPMENT MODIFICATIONS	5
SUPPORT EQUIPMENT LIST AND DETAILS	5
EXTERNAL I/O CABLE.....	5
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC§15.203 - ANTENNA REQUIREMENT.....	8
APPLICABLE STANDARD	8
ANTENNA CONNECTOR CONSTRUCTION	8
FCC §15.207(A) – AC LINE CONDUCTED EMISSIONS	9
APPLICABLE STANDARD	9
MEASUREMENT UNCERTAINTY	9
EUT SETUP.....	9
EMI TEST RECEIVER SETUP.....	10
TEST PROCEDURE	10
TEST EQUIPMENT LIST AND DETAILS.....	10
TEST RESULTS SUMMARY	10
TEST DATA	10
FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS	13
APPLICABLE STANDARD	13
MEASUREMENT UNCERTAINTY	13
TEST EQUIPMENT SETUP	13
EUT SETUP.....	14
TEST PROCEDURE	14
CORRECTED AMPLITUDE & MARGIN CALCULATION	14
TEST EQUIPMENT LIST AND DETAILS.....	15
TEST RESULTS SUMMARY	15
TEST DATA	15
FCC§15.249(D) - OUT OF BAND EMISSION (50DB ATTENUATION)	20
APPLICABLE STANDARD	20
TEST PROCEDURE	20
TEST EQUIPMENT LIST AND DETAILS.....	20
TEST DATA	20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Cadent Ltd.*'s product, model number: *EM10578* (*FCC ID: UZ2EM10578*) (the "EUT") in this report was a *2.4G RF dongle*, which was measured approximately: 19 mm (L) x 14 mm (W) x 6 mm (H), rated input voltage: DC 5.0V from USB port

** All measurement and test data in this report was gathered from production sample serial number: 1201043 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-16.*

Objective

This report is prepared on behalf of *Cadent Ltd.* in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine the compliance of EUT with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

Related Submittal(s)/Grant(s)

No related submittal.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

The uncertainty of any RF tests which use conducted method measurement is ± 0.96 dB, the uncertainty of any radiation on emissions measurement is ± 4.0 dB

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured in a testing mode which was selected by manufacturer.

EUT Exercise Software

FCC Test_En. exe.

Equipment Modifications

No modification was made to the EUT tested.

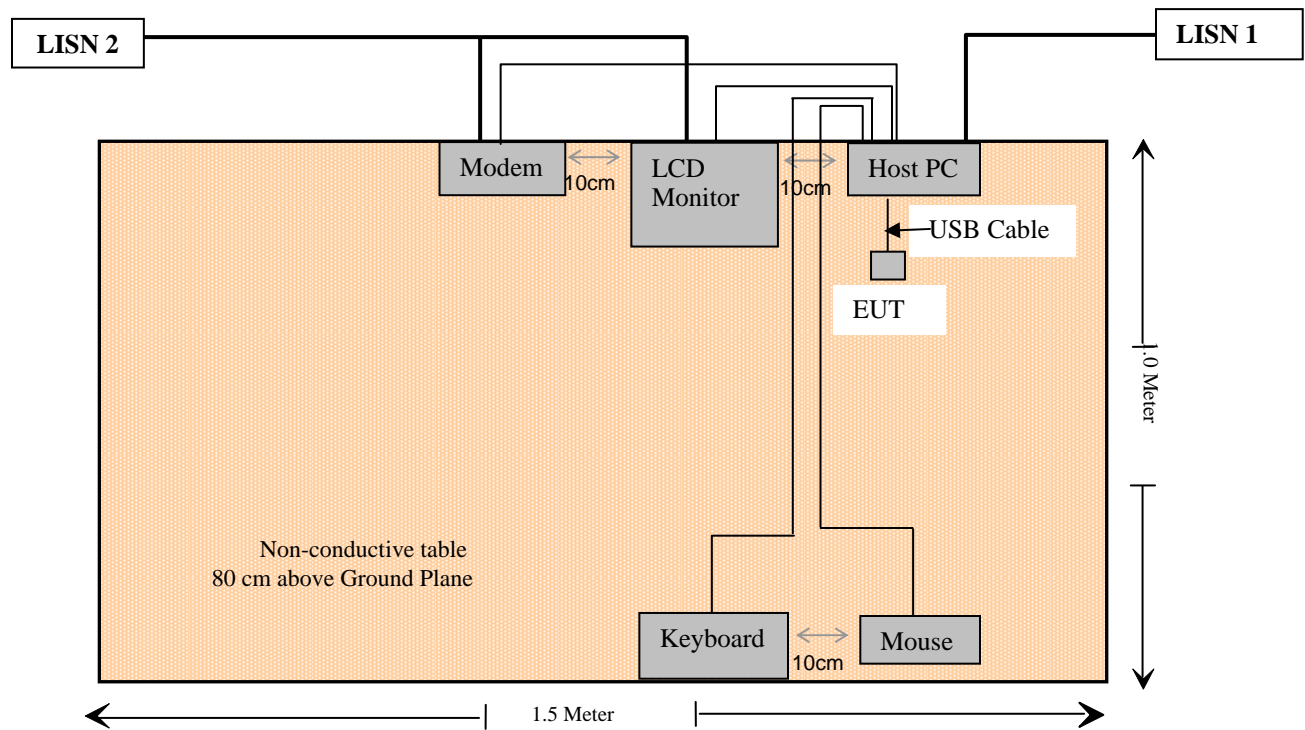
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
DELL	LCD Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH
SAST	Modem	AEM-2100	0293

External I/O Cable

Cable Description	Length (m)	From/Port	To
Shielded Detachable K/B Cable	1.8	K/B Port/Host PC	Keyboard
Shielded Detachable VGA Cable	1.5	VGA Port/Host PC	Monitor
Unshielded Detachable AC Cable	1.5	Host PC	LISN
Unshielded Detachable Mouse Cable	1.8	Mouse Port/Host	Mouse
Shielded Detachable Serial Cable	1.5	Serial Port/Host	Modem

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conducted Emissions	Compliance
15.205, §15.209, §15.249	Radiated Emissions	Compliance
§15.249(d)	Outside of Band Emission(50dB attenuation)	Compliance

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

Antenna Connector Construction

The EUT used an antenna printed on PCB, the gain is 1.92 dBi, which is in accordance to section 15.203, please refer to the internal photos.

Result: Compliant

FCC §15.207(a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

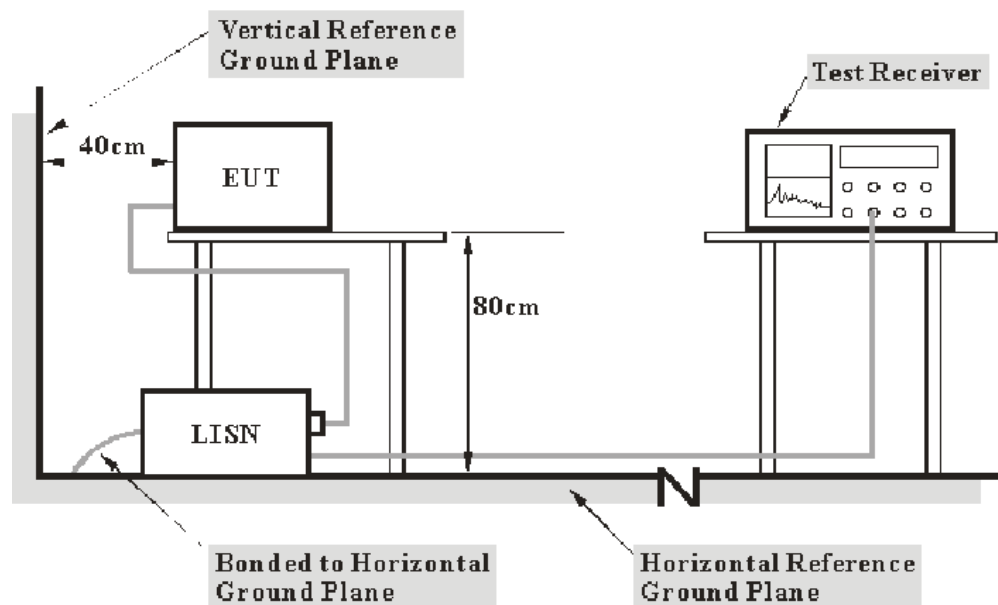
FCC§15.207

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 2.4 dB.(k=2, 95% level of confidence)

EUT Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limit.

The spacing between the peripherals was 10 cm.

The adapter of EUT was connected to a 120VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<u>Frequency Range</u>	<u>IF B/W</u>
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2011-07-08	2012-07-07
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

0.47 dB at 0.605 MHz in the **Neutral** conducted mode

Test Data

Environmental Conditions

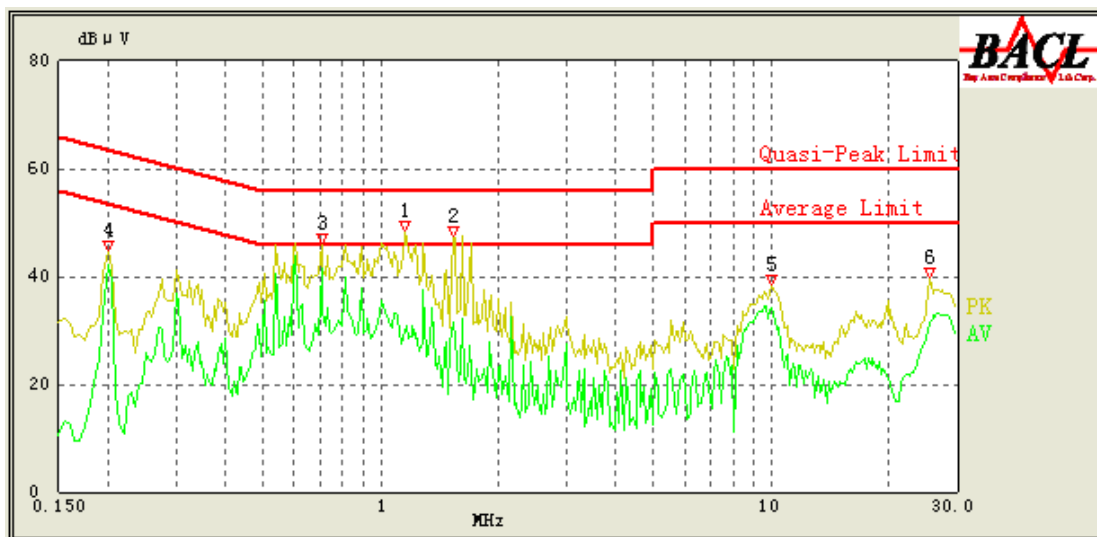
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

* The testing was performed by Jimmy Xiao on 2012-02-10.

Test Result: Compliance.

Test Mode: Operating

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.705	41.56	9.97	46.00	4.44	Ave.
1.540	45.11	9.97	56.00	10.89	QP
1.155	44.06	9.97	56.00	11.94	QP
0.200	42.20	9.96	54.57	12.37	Ave.
0.705	41.89	9.97	56.00	14.11	QP
1.540	31.45	9.97	46.00	14.55	Ave.
1.160	30.94	9.97	46.00	15.06	Ave.
10.065	34.33	9.99	50.00	15.67	Ave.
25.460	31.51	10.12	50.00	18.49	Ave.
0.200	42.55	9.96	64.57	22.02	QP
10.065	34.81	9.99	60.00	25.19	QP
25.330	33.22	10.11	60.00	26.78	QP

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.605	45.53	9.96	46.00	0.47*	Ave.
0.540	40.27	9.96	46.00	5.73	Ave.
1.155	45.79	9.97	56.00	10.21	QP
0.605	45.68	9.96	56.00	10.32	QP
1.155	35.07	9.97	46.00	10.93	Ave.
1.080	34.66	9.97	46.00	11.34	Ave.
1.620	43.96	9.97	56.00	12.04	QP
1.080	43.85	9.97	56.00	12.15	QP
0.540	43.17	9.96	56.00	12.83	QP
1.625	32.31	9.97	46.00	13.69	Ave.
10.065	35.20	9.99	50.00	14.80	Ave.
10.065	35.62	9.99	60.00	24.38	QP

*Within measurement uncertainty

FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS**Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) 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 §15.209, whichever is the lesser attenuation.

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB.

Test Equipment Setup

The spectrum analyzer or receiver is set as:

Below 1000MHz:

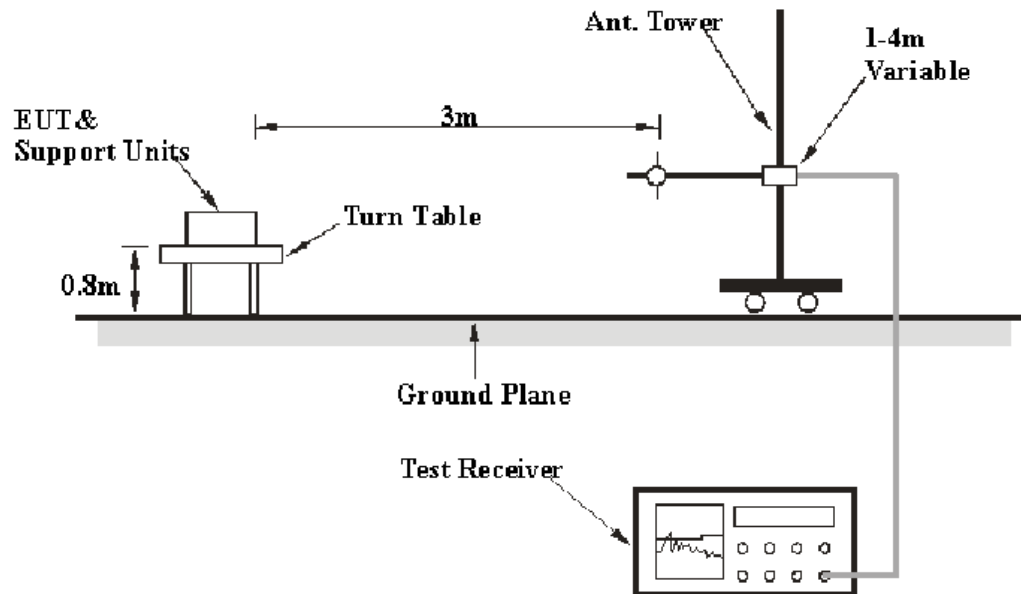
$$\text{RBW} = 100 \text{ kHz} / \text{VBW} = 300 \text{ kHz} / \text{Sweep} = \text{Auto}$$

Above 1000MHz:

$$\text{Peak: RBW} = 1 \text{ MHz} / \text{VBW} = 1 \text{ MHz} / \text{Sweep} = \text{Auto}$$

$$\text{Average: RBW} = 1 \text{ MHz} / \text{VBW} = 10 \text{ Hz} / \text{Sweep} = \text{Auto}$$

EUT Setup



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, 15.205 and FCC 15.249 limits.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-04	2012-05-03
Electro-Mechanics	Horn Antenna	3116	9510-2270	2011-10-11	2012-10-10
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 & 15.249, with the worst margin reading of:

9.78 dB at 4806 MHz in the Horizontal polarization

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

The testing was performed by Jimmy Xiao on 2012-02-03.

Test Mode: Transmitting

Test Result: Compliance.

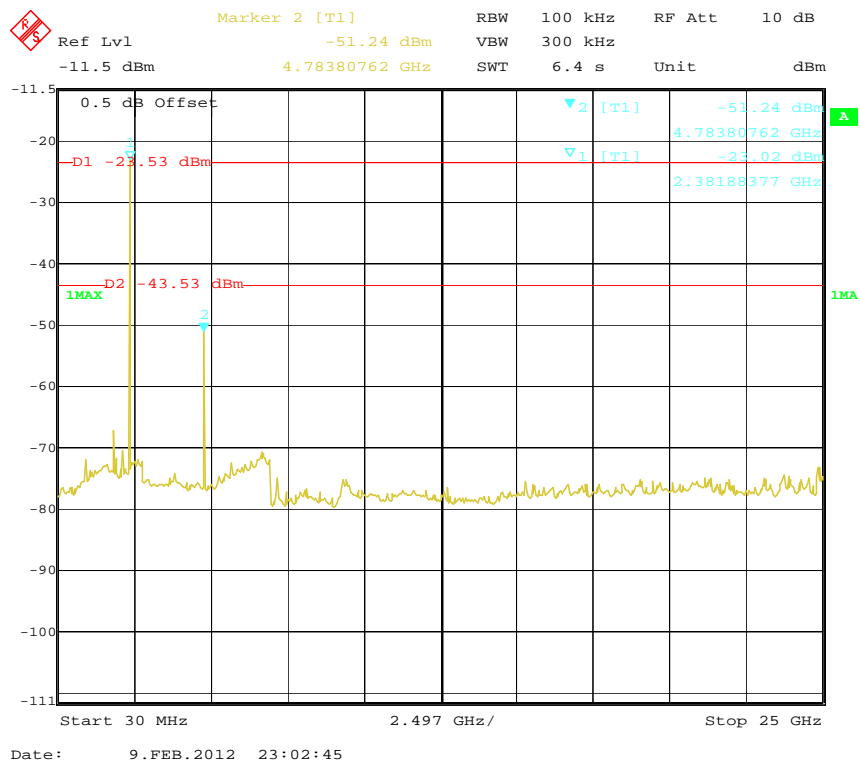
30 MHz ~ 25 GHz

Indicated		Detector (PK/Ave.)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.249/15.209/15.205			
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Comment
Low Channel (2403 MHz)												
2403	76.16	PK	160	1.6	H	30.5	3.03	26.83	82.86	114	31.14	fund
2403	75.21	Ave.	160	1.6	H	30.5	3.03	26.83	81.91	94	12.09	fund
2403	74.65	PK	210	1.2	V	30.5	3.03	26.83	81.35	114	32.65	fund
2403	73.56	Ave.	210	1.2	V	30.5	3.03	26.83	80.26	94	13.74	fund
485.55	43.88	QP	262	1.0	V	15.4	1.81	26.29	34.8	46	11.2	spurious
30.21	33.84	QP	135	1.0	V	20.4	0.32	25.86	28.7	40	11.3	spurious
4806	30.79	Ave.	130	1.8	H	36.0	4.30	26.87	44.22	54	9.78	harmonic
7209	22.19	Ave.	170	1.4	H	39.2	5.16	26.64	39.91	54	14.09	harmonic
4806	27.61	Ave.	240	1.1	V	34.5	4.30	26.87	39.54	54	14.46	harmonic
6989.4	23.14	Ave.	360	1.2	V	37.9	5.17	26.68	39.53	54	14.47	spurious
7209	22.51	Ave.	150	1.0	V	37.9	5.16	26.64	38.93	54	15.07	harmonic
4806	40.44	PK	130	1.8	H	36.0	4.30	26.87	53.87	74	20.13	harmonic
7209	34.63	PK	170	1.4	H	39.2	5.16	26.64	52.35	74	21.65	harmonic
6989.4	35.30	PK	360	1.2	V	37.9	5.17	26.68	51.69	74	22.31	spurious
4806	38.75	PK	240	1.1	V	34.5	4.30	26.87	50.68	74	23.32	harmonic
7209	33.17	PK	150	1.0	V	37.8	5.16	26.64	49.49	74	24.51	harmonic
3911.5	20.17	Ave.	60	1.9	V	32.3	3.73	26.88	29.32	54	24.68	spurious
2389	22.14	Ave.	140	1.4	V	30.5	3.03	26.83	28.84	54	25.16	spurious
2386.9	21.98	Ave.	290	2.1	H	30.4	2.98	26.83	28.53	54	25.47	spurious
3911.5	35.26	PK	60	1.9	V	32.3	3.73	26.88	44.41	74	29.59	spurious
2389	35.50	PK	140	1.4	V	30.5	3.03	26.83	42.2	74	31.80	spurious
2386.9	35.21	PK	290	2.1	H	30.4	2.98	26.83	41.76	74	32.24	spurious
Middle Channel (2441 MHz)												
2441	76.09	PK	150	1.5	H	30.6	3.11	26.83	82.97	114	31.03	fund
2441	75.34	Ave.	150	1.5	H	30.6	3.11	26.83	82.22	94	11.78	fund
2441	74.83	PK	230	1.7	V	30.6	3.11	26.83	81.71	114	32.29	fund
2441	73.72	Ave.	230	1.7	V	30.6	3.11	26.83	80.60	94	13.40	fund
485.55	43.63	QP	261	1.0	V	15.4	1.81	26.29	34.55	46	11.45	spurious
30.21	33.43	QP	136	1.0	V	20.4	0.32	25.86	28.29	40	11.71	spurious
7323	22.30	Ave.	340	1.7	H	39.1	5.09	26.64	39.85	54	14.15	harmonic
6999.1	42.97	PK	170	2.1	V	37.9	5.17	26.68	59.36	74	14.64	spurious
4882.3	25.49	Ave.	210	1.6	H	36.2	4.36	26.87	39.18	54	14.82	harmonic
6999.1	22.63	Ave.	170	2.1	V	37.9	5.17	26.68	39.02	54	14.98	spurious
7323	21.94	Ave.	150	1.5	V	37.8	5.09	26.64	38.19	54	15.81	harmonic
4882	24.81	Ave.	160	1.1	V	34.7	4.36	26.87	37.00	54	17.00	harmonic
3914.9	23.51	Ave.	190	1.4	V	32.3	3.73	26.88	32.66	54	21.34	spurious
7323	34.99	PK	340	1.7	H	39.1	5.09	26.64	52.54	74	21.46	harmonic
3914.9	43.09	PK	190	1.4	V	32.3	3.73	26.88	52.24	74	21.76	spurious
4882	36.72	PK	210	1.6	H	36.2	4.36	26.87	50.41	74	23.59	harmonic
7323	33.97	PK	150	1.5	V	37.8	5.09	26.64	50.22	74	23.78	harmonic
4882	35.4	PK	160	1.1	V	34.7	4.36	26.87	47.59	74	26.41	harmonic

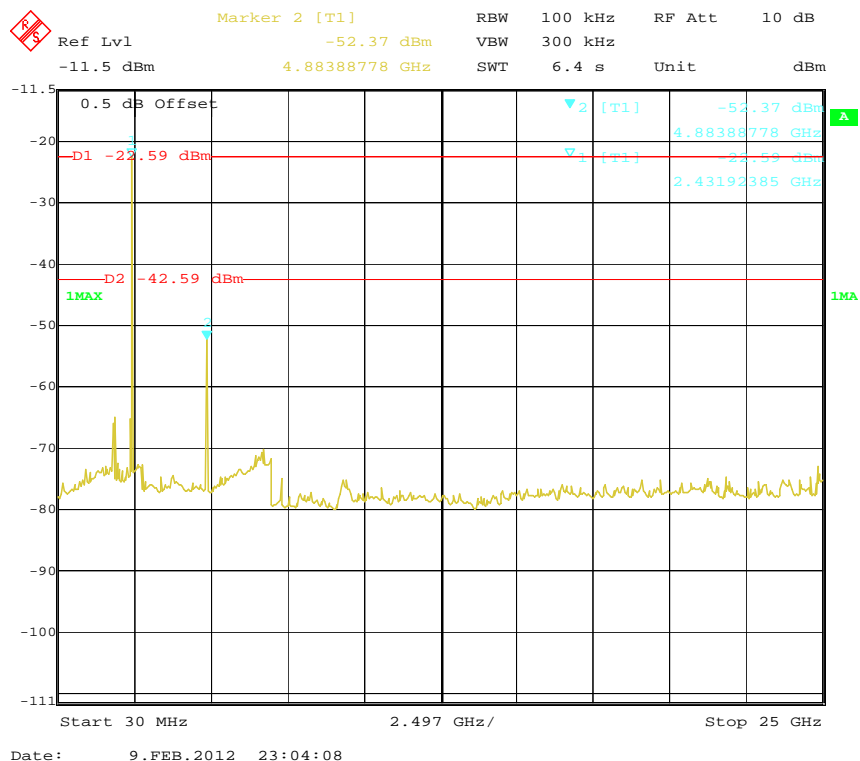
Indicated		Detector (PK/Ave.)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.249/15.209/15.205			
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Comment
High Channel (2479 MHz)												
2479	75.73	PK	150	1.3	H	30.7	3.29	26.83	82.89	114	31.11	fund
2479	73.7	Ave.	150	1.3	H	30.7	3.29	26.83	80.86	94	13.14	fund
2479	72.13	PK	250	1.8	V	30.6	3.29	26.83	79.19	114	34.81	fund
2479	70.81	Ave.	250	1.8	V	30.6	3.29	26.83	77.87	94	16.13	fund
485.55	43.73	QP	263	1.0	V	15.4	1.81	26.29	34.65	46	11.35	spurious
30.21	33.52	QP	138	1.0	V	20.4	0.32	25.86	28.38	40	11.62	spurious
7437	22.73	Ave.	310	1.5	H	39	5.2	26.64	40.29	54	13.71	harmonic
6937.2	23.48	Ave.	240	2.1	V	37.9	5.17	26.68	39.87	54	14.13	spurious
4958	27.03	Ave.	150	2.1	V	35	4.4	26.87	39.56	54	14.44	harmonic
6937.2	42.97	PK	240	2.1	V	37.9	5.17	26.68	59.36	74	14.64	spurious
4958	24.35	Ave.	280	1.9	H	36.4	4.4	26.87	38.28	54	15.72	harmonic
7437	21.58	Ave.	20	2.0	V	37.7	5.2	26.64	37.84	54	16.16	harmonic
3904.8	24.56	Ave.	130	1.5	V	32.3	3.73	26.88	33.71	54	20.29	spurious
3904.8	44.19	PK	130	1.5	V	32.3	3.73	26.88	53.34	74	20.66	spurious
7437	34.97	PK	310	1.5	H	39	5.2	26.64	52.53	74	21.47	harmonic
7437	34.16	PK	20	2.0	V	37.7	5.2	26.64	50.42	74	23.58	harmonic
4958	35.02	PK	280	1.9	H	36.4	4.4	26.87	48.95	74	25.05	harmonic
4958	34.89	PK	150	2.1	V	35	4.4	26.87	47.42	74	26.58	harmonic
2496.5	20.31	Ave.	180	1.3	V	30.6	3.11	26.83	27.19	54	26.81	spurious
2498.2	20.14	Ave.	160	1.4	V	30.6	3.11	26.83	27.02	54	26.98	spurious
2496.5	34.54	PK	180	1.3	V	30.6	3.11	26.83	41.42	74	32.58	spurious
2498.2	33.82	PK	160	1.4	V	30.6	3.11	26.83	40.70	74	33.30	spurious

The plots of spurious emissions at antenna port were shown as below

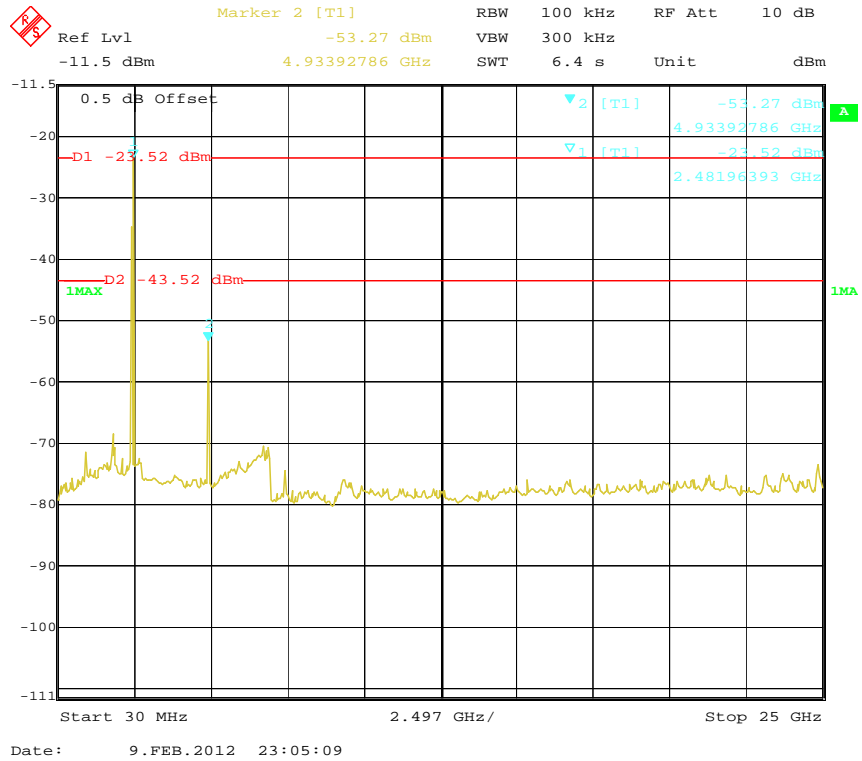
Low Channel



Middle Channel



High Channel



FCC§15.249(d) - OUT OF BAND EMISSION (50dB ATTENUATION)

Applicable Standard

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 §15.209, whichever is the lesser attenuation

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

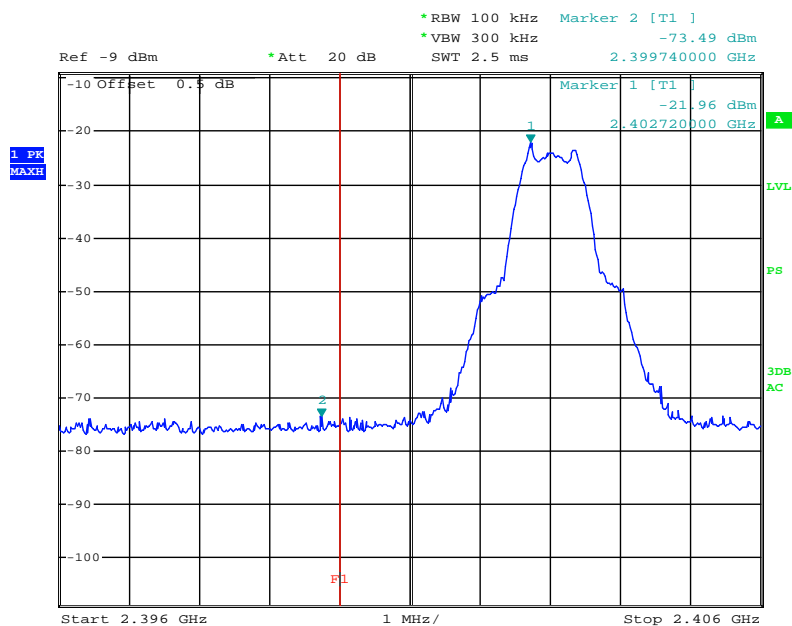
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.9kPa

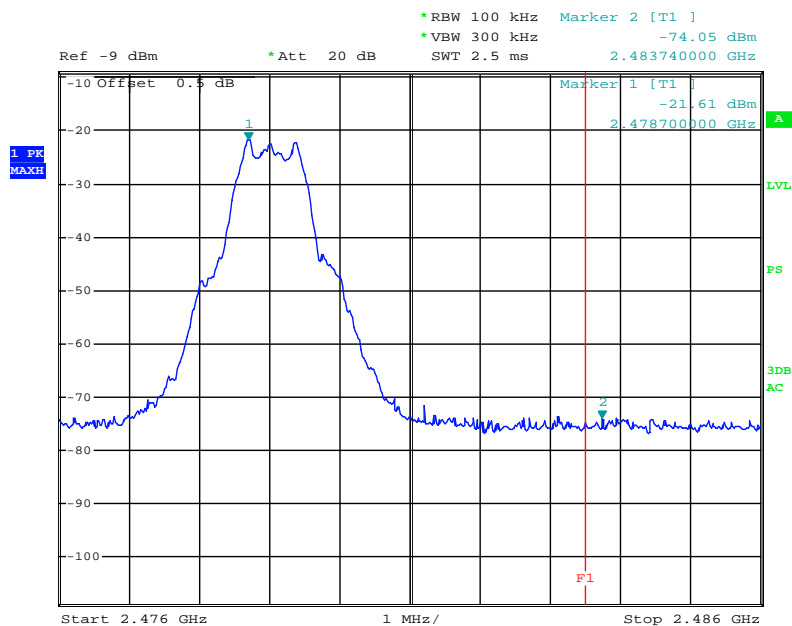
** The testing was performed by Jimmy Xiao on 2012-02-10.*

Test Result: Compliance. Please refer to the following table and plots:

Frequency (MHz)	Delta Peak to Band Emission (dBc)	Delta Limit (dBc)
2399.74	51.53	50
2483.74	52.44	50

Band Edge: Left Side

Date: 10.FEB.2012 22:23:44

Band Edge: Right Side

Date: 10.FEB.2012 22:25:34

******* END OF REPORT *******