



NVLAP LAB CODE 200707-0



FCC PART 15.247

MEASUREMENT AND TEST REPORT

For

Caron Autosound Ltd.

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FCC ID: T4P12042010

Report Type: Original Report	Product Type: Bluetooth Speakerphone
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* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*" (Rev.2)

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	4
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	6
EUT EXERCISE SOFTWARE	6
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	6
EXTERNAL I/O CABLE.....	6
CONFIGURATION OF TEST SETUP	7
BLOCK DIAGRAM OF TEST SETUP	8
SUMMARY OF TEST RESULTS	9
FCC §15.247 (i) & §1.1307(b)(1) - RF EXPOSURE.....	10
APPLICABLE STANDARDS.....	10
RF EXPOSURE LIMIT	10
MPE PREDICTION	10
MPE RESULTS	10
FCC §15.203 – ANTENNA REQUIREMENT.....	11
STANDARD APPLICABLE	11
ANTENNA CONNECTOR CONSTRUCTION	11
FCC §15.207 (a) - CONDUCTED EMISSIONS	12
APPLICABLE STANDARD	12
MEASUREMENT UNCERTAINTY.....	12
EUT SETUP.....	12
EMI TEST RECEIVER SETUP.....	13
TEST EQUIPMENT LIST AND DETAILS.....	13
TEST PROCEDURE	13
TEST RESULTS SUMMARY	13
TEST DATA	13
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS.....	16
APPLICABLE STANDARD	16
MEASUREMENT UNCERTAINTY.....	16
EUT SETUP.....	16
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	17
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST PROCEDURE	17
CORRECTED AMPLITUDE & MARGIN CALCULATION	17
TEST RESULTS SUMMARY	18
TEST DATA	18
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST	24
APPLICABLE STANDARD	24
TEST EQUIPMENT LIST AND DETAILS.....	24

TEST PROCEDURE	24
TEST DATA	24
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING	29
APPLICABLE STANDARD	29
TEST EQUIPMENT LIST AND DETAILS.....	29
TEST PROCEDURE	29
TEST DATA	29
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST	34
APPLICABLE STANDARD	34
TEST EQUIPMENT LIST AND DETAILS.....	34
TEST PROCEDURE	34
TEST DATA	34
FCC §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWELL TIME).....	37
APPLICABLE STANDARD	37
TEST EQUIPMENT LIST AND DETAILS.....	37
TEST PROCEDURE	37
TEST DATA	37
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	48
APPLICABLE STANDARD	48
TEST EQUIPMENT LIST AND DETAILS.....	48
TEST PROCEDURE	48
TEST DATA	48
FCC §15.247(d) - BAND EDGES TESTING	53
APPLICABLE STANDARD	53
TEST EQUIPMENT LIST AND DETAILS.....	53
TEST PROCEDURE	53
TEST DATA	54

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Caron Autosound Ltd's product, model number: *BT-1900 (FCC ID: T4P12042010)* or the "EUT" as referred to in this report is a *Bluetooth Speakerphone*, which measures approximately: 12.7 cm L x 4.8 cm W x 1.28 cm H, rated input voltage: DC 3.7V battery.

*Note: The serial product model *BT-1900, the voice*. We select *BT-1900* to test, and all of the models are electrically identical, only their difference is the model names, which was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 1005053 (Assigned by BACL, Shenzhen). The EUT was received on 2010-05-21.

Objective

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

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, 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 emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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 November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

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 a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



NVLAP 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 for testing in a typical fashion (as normally used by a typical user).

Equipment Modifications

No modification was made to the unit tested.

EUT Exercise Software

N/A.

Local Support Equipment List and Details

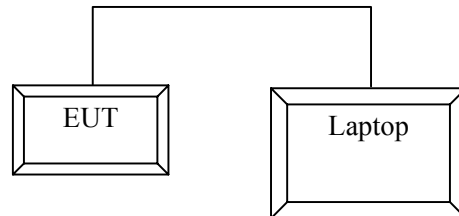
Manufacturer	Description	Model	Serial Number	FCC ID
Compaq	Laptop	PP2040	N/A	DoC

External I/O Cable

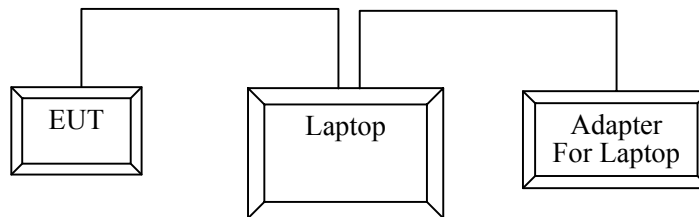
Cable Description	Length (m)	From/Port	To
Unshielded Undetachable USB Cable	0.8	Laptop	EUT

Configuration of Test Setup

Transimitting:

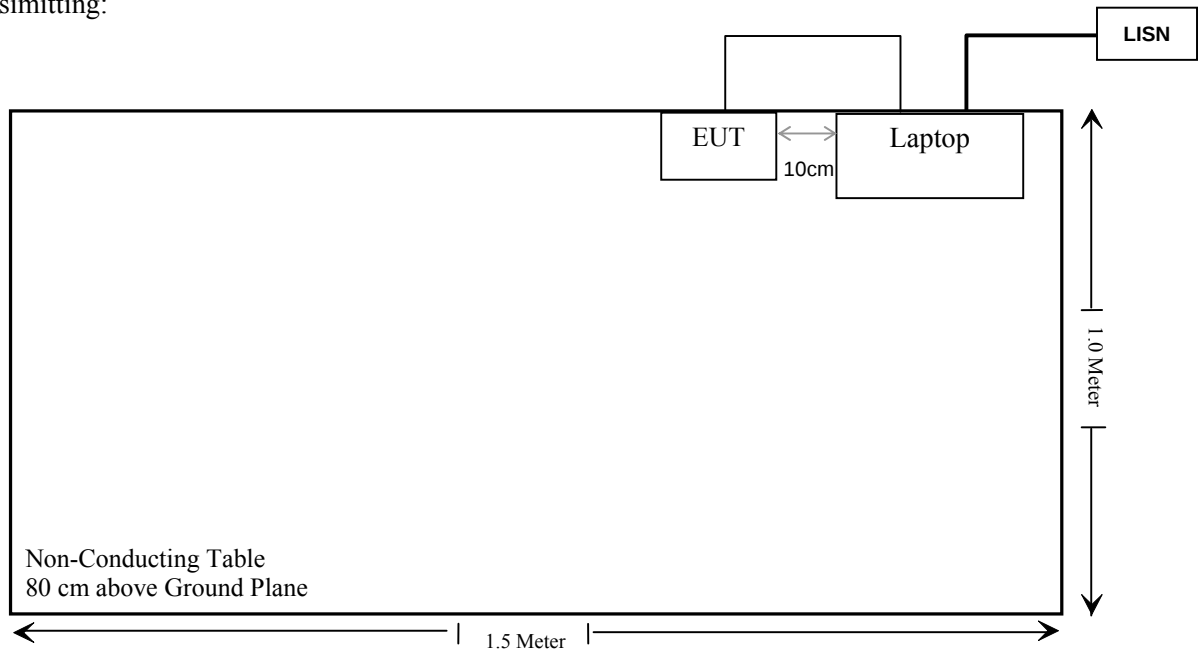


Charging:

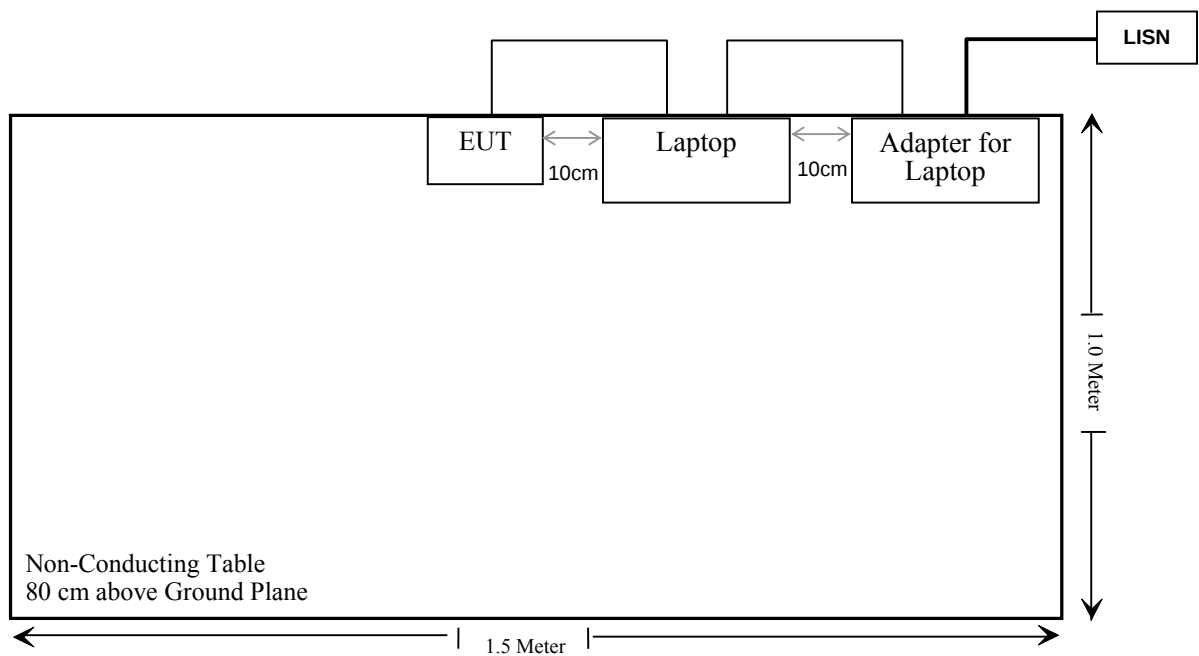


Block Diagram of Test Setup

Transmitting:



Charging:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b)(1)	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliant
§15.247 (a)(1)	20 dB Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

FCC §15.247 (i) & §1.1307(b)(1) - RF EXPOSURE

Applicable Standards

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to FCC §1.1310 and §2.1091 RF exposure is calculated.

RF Exposure Limit

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

MPE Results

Frequency Band	MPE Distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	Power Density (mw/cm ²)	Result
2.4 GHz	20	2.46	-0.833	0.0003	Compliance

The predicted power density level at 20 cm is 0.0003 mw/cm² which is below the uncontrolled exposure limit of 1.0 mW/cm². The EUT is used at least 20 cm away from user's body. It is determined as mobile equipment and complies with the MPE limit.

FCC §15.203 – ANTENNA REQUIREMENT

Standard Applicable

According to FCC §15.203, 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 shall be considered sufficient to comply with the provisions of this Section. 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.

Antenna Connector Construction

The EUT has a printed antenna on the PCB, which in accordance to section 15.203, the maximum gain is -0.833 dBi; please refer to the internal photos.

Result: Compliant.

FCC §15.207 (a) - CONDUCTED EMISSIONS

Applicable Standard

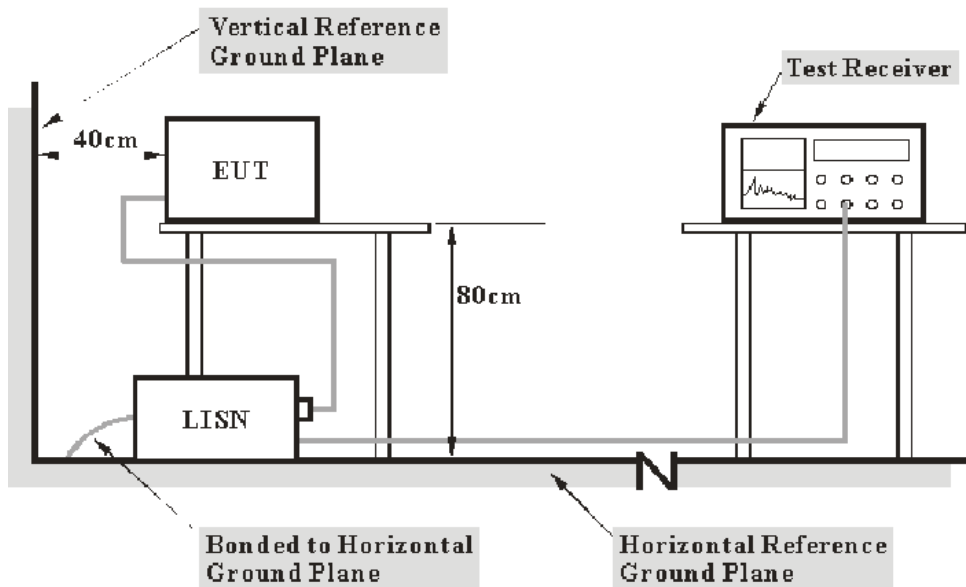
FCC§15.207

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 NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is ± 2.4 dB.

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 C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter of PC was connected to a 120 VAC/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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2010-03-03	2011-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2010-03-09	2011-03-08

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

Test Procedure

During the conducted emission test, the adapter of PC was connected to the LISN.

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 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:

12.39 dB at 0.660 MHz in the **Line** conductor mode
10.77 dB at 0.440 MHz in the **Neutral** conductor mode

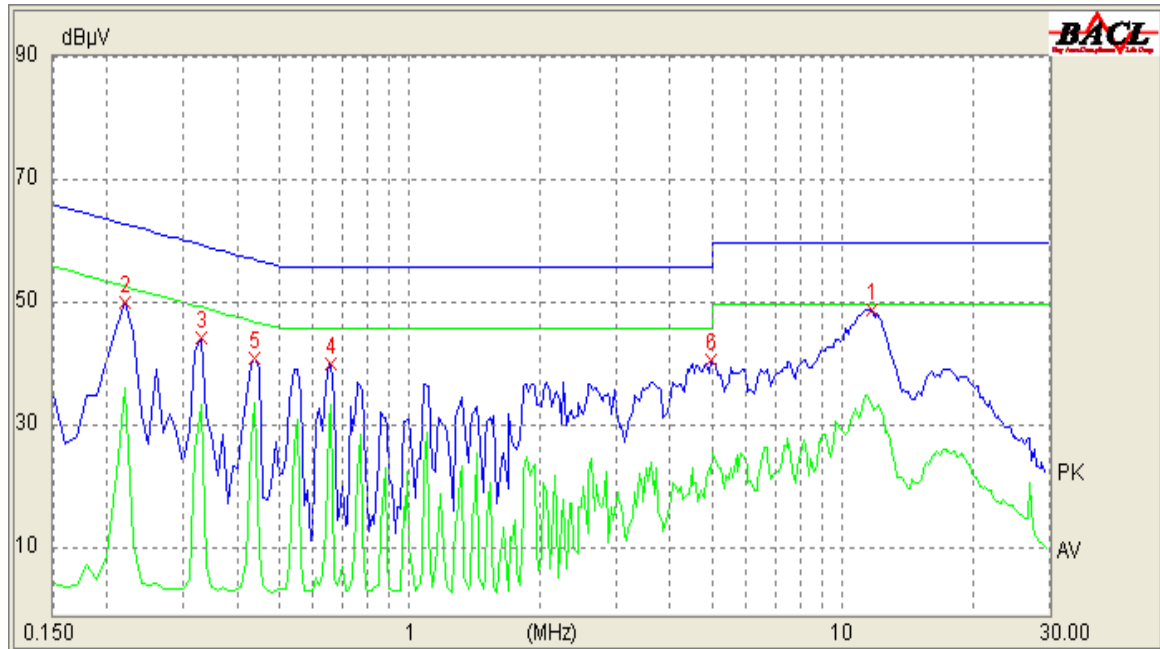
Test Data

Environmental Conditions

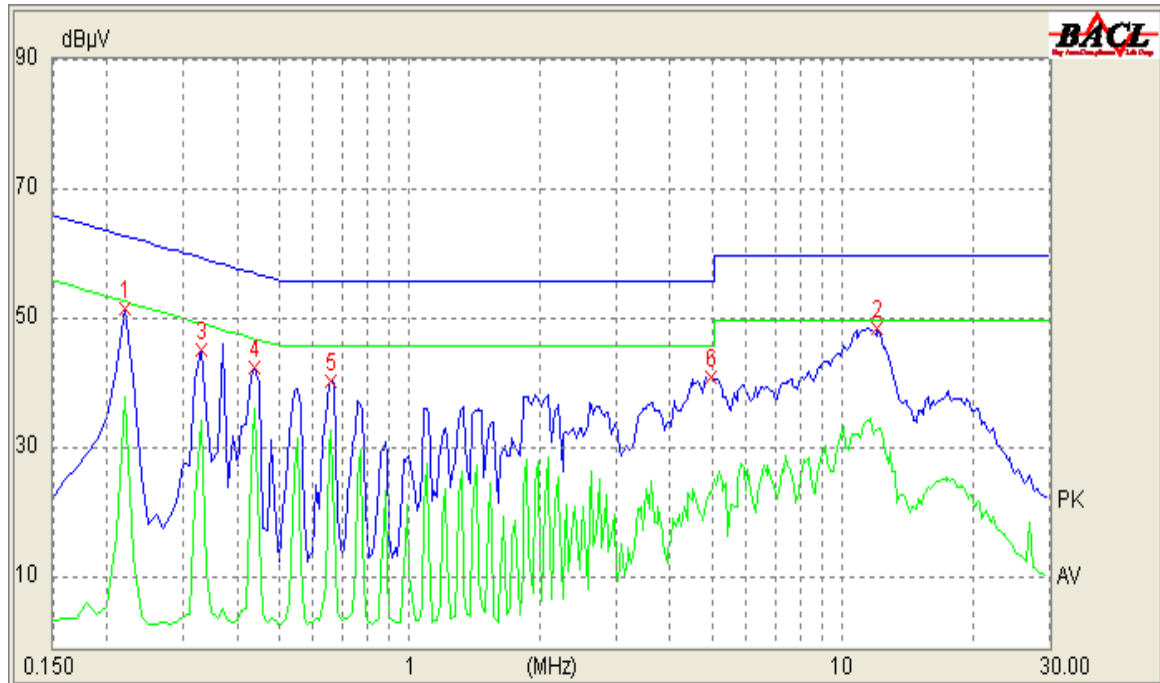
Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Tim Zhong on 2010-06-07.

Test Mode: Charging

Line

Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.660	10.10	33.61	46.00	12.39	AV
0.440	10.10	34.11	47.09	12.98	AV
0.220	10.10	48.62	62.92	14.30	QP
0.330	10.10	33.88	49.51	15.63	AV
11.620	10.30	34.34	50.00	15.66	AV
0.220	10.10	36.51	52.92	16.41	AV
0.660	10.10	39.14	56.00	16.86	QP
0.330	10.10	42.39	59.51	17.12	QP
11.680	10.30	42.12	60.00	17.88	QP
0.440	10.10	39.00	57.09	18.09	QP
4.960	10.10	33.49	56.00	22.51	QP
4.960	10.10	22.51	46.00	23.49	AV

Neutral:

Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.440	10.10	36.32	47.09	10.77	AV
0.660	10.10	33.06	46.00	12.94	AV
0.220	10.10	49.49	62.92	13.43	QP
0.220	10.10	38.21	52.92	14.71	AV
0.330	10.10	34.75	49.51	14.76	AV
0.330	10.10	43.52	59.51	15.99	QP
0.440	10.10	40.72	57.09	16.37	QP
12.080	10.30	33.11	50.00	16.89	AV
0.660	10.10	39.08	56.00	16.92	QP
12.040	10.30	41.78	60.00	18.22	QP
4.980	10.10	36.74	56.00	19.26	QP
4.980	10.10	23.53	46.00	22.47	AV

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

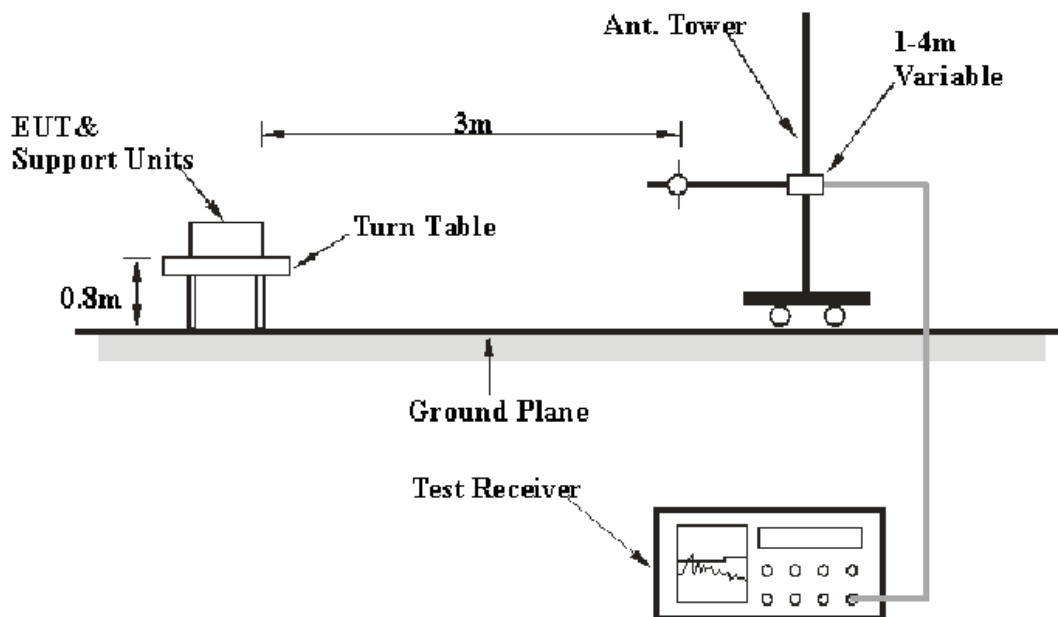
FCC §15.205; §15.209; §15.247(d)

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 NIS 81, 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.

EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>	<i>Detector</i>
30MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	AV

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2009-08-02	2010-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2010-03-11	2011-03-11
HP	Amplifier	2VA-213+	T-E27H	2010-03-08	2011-03-08
Sunol Sciences	Horn Antenna	DRH-118	A052604	2010-05-05	2011-05-04
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2009-07-08	2010-07-08

* **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 Procedure

For the radiated emissions test, the adapter of PC was connected to the AC floor outlet.

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz and peak and Average detection modes for frequencies above 1GHz.

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 maximum limit. The equation for margin calculation is as follows:

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247, with the worst margin reading of:

Below 1 GHz:

Charging: 9.10 dB at 728.989750 MHz in the **Horizontal** polarization
Transmitting (BDR): 2.90 dB at 168.056250 MHz in the **Vertical** polarization
Transmitting (EDR): 4.60 dB at 151.989750 MHz in the **Horizontal** polarization

Above 1 GHz:

Transmitting (BDR):

4.29 dB at 1060.10 MHz in the **Vertical** polarization (Low Channel)
11.93 dB at 4882.00 MHz in the **Horizontal** polarization (Middle Channel)
10.76 dB at 4960.00 MHz in the **Horizontal** polarization (High Channel)
16.36 dB at 2483.50 MHz in the **Horizontal** polarization (Restrict band spurious emission)

Transmitting (EDR):

9.21 dB at 1199.70 MHz in the **Vertical** polarization (Low Channel)
10.48 dB at 1199.40 MHz in the **Vertical** polarization (Middle Channel)
9.31 dB at 1196.30 MHz in the **Vertical** polarization (High Channel)
15.04 dB at 2483.5 MHz in the **Vertical** polarization (Restrict band spurious emission)

Test Data

Environmental Conditions

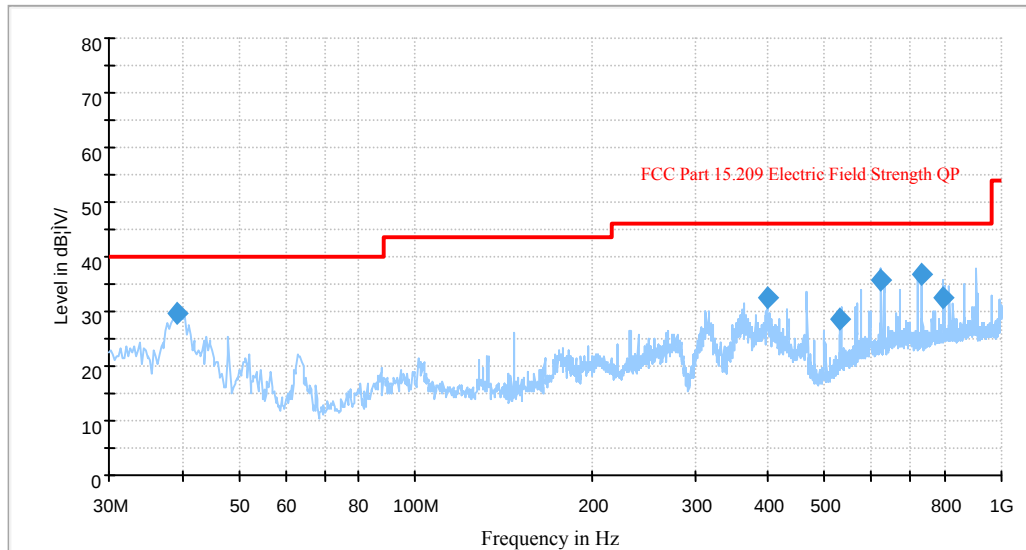
Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.9 kPa

* The testing was performed by Tim Zhang on 2010-06-09.

Test mode: Charging

Below 1 GHz

Auto Test (FCC 15.209)

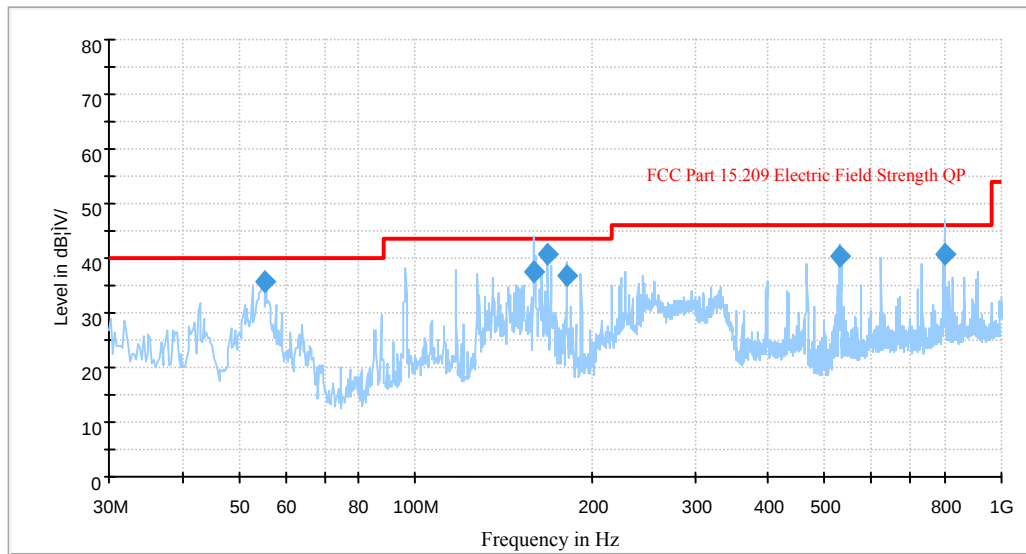


Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (degree)	Limit (dBμV/m)	Margin (dB)
728.989750	36.9	297.0	H	88.0	46.0	9.1
39.095500	29.6	101.0	V	89.0	40.0	10.4
624.092000	35.6	117.0	V	252.0	46.0	10.4
397.597750	32.6	101.0	H	261.0	46.0	13.4
796.392250	32.6	339.0	V	227.0	46.0	13.4
528.078500	28.6	101.0	V	88.0	46.0	17.4

Test mode: Transmitting (BDR)

Below 1 GHz

Auto Test (FCC 15.209)



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (degree)	Limit (dBμV/m)	Margin (dB)
168.056250	40.6	102.0	V	0.0	43.5	2.9*
55.270000	35.6	104.0	V	78.0	40.0	4.4
799.279750	40.8	158.0	V	160.0	46.0	5.2
530.353500	40.2	102.0	V	94.0	46.0	5.8
159.491000	37.6	104.0	V	269.0	43.5	5.9
180.901500	36.8	103.0	V	17.0	43.5	6.7

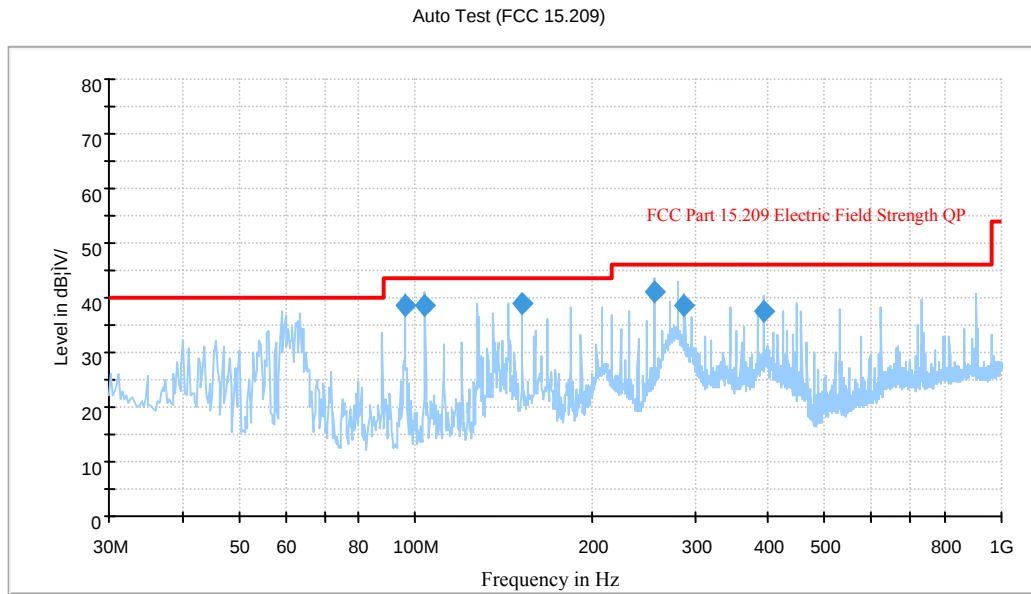
*Within measurement uncertainty.

Above 1 GHz

Frequency (MHz)	S.A. Reading (dBµV/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre- Amp. (dB)	Cord. Amp. (dBµV/m)	FCC Part 15.247/209		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	Remarks
Low Channel (2402 MHz)												
1060.1	43.47	AV	270	1.2	V	25.5	4.54	23.8	49.71	54	4.29	spurious
1592.2	46.11	AV	285	1.3	V	26.83	2.33	27.80	47.47	54	6.53	spurious
1597.8	45.19	AV	225	1.3	H	26.83	2.33	27.50	46.85	54	7.15	spurious
4804	49.50	AV	280	1.1	H	27.51	4.30	36.30	45.01	54	8.99	harmonic
1064.7	40.85	AV	320	1.1	H	26.85	1.90	25.10	44.5	54	9.50	spurious
4804	42.06	AV	330	1.9	V	27.51	4.30	35.0	38.87	54	15.13	harmonic
4804	61.96	PK	285	1.1	H	27.51	4.30	36.30	57.47	74	16.53	harmonic
1060.1	50.53	PK	270	1.2	V	25.5	4.54	23.8	56.77	74	17.23	spurious
1597.8	54.50	PK	225	1.3	H	26.83	2.33	27.50	56.16	74	17.84	spurious
1592.2	53.48	PK	280	1.3	V	26.83	2.33	27.80	54.84	74	19.16	spurious
4804	53.81	PK	332	1.9	V	27.51	4.30	35.0	50.62	74	23.38	harmonic
1064.7	46.06	PK	323	1.1	H	26.85	1.90	25.10	49.71	74	24.29	spurious
Middle Channel (2441 MHz)												
4882	47.05	AV	280	1.2	H	27.09	4.33	36.40	42.07	54	11.93	harmonic
4882	42.42	AV	158	1.3	V	27.09	4.33	35.20	38.64	54	15.36	harmonic
1628.2	35.93	AV	184	1.1	V	26.83	2.33	27.80	37.29	54	16.71	spurious
1628.1	34.98	AV	212	1.2	H	26.83	2.33	27.50	36.64	54	17.36	spurious
4882	61.19	PK	287	1.2	H	27.09	4.33	36.40	56.21	74	17.79	harmonic
4882	54.63	PK	155	1.3	V	27.09	4.33	35.20	50.85	74	23.15	harmonic
1628.1	47.60	PK	210	1.2	H	26.83	2.33	27.50	49.26	74	24.74	spurious
1628.2	47.85	PK	180	1.1	V	26.83	2.33	27.80	49.21	74	24.79	spurious
High Channel (2480 MHz)												
4960	48.83	AV	276	1.1	H	26.65	4.36	36.6	43.24	54	10.76	harmonic
4960	42.41	AV	265	1.2	V	26.65	4.36	35.4	38.02	54	15.98	harmonic
4960	63.34	PK	284	1.1	H	26.65	4.36	36.6	57.75	74	16.25	harmonic
1654.0	35.16	AV	177	1.7	H	26.83	2.33	27.50	36.82	54	17.18	spurious
1654.0	32.91	AV	183	1.7	V	26.83	2.33	27.80	34.27	54	19.73	spurious
4960	56.52	PK	264	1.2	V	26.65	4.36	35.4	52.13	74	21.87	harmonic
1654.0	48.35	PK	177	1.7	H	26.83	2.33	27.50	50.01	74	23.99	spurious
1654.0	44.77	PK	183	1.7	V	26.83	2.33	27.80	46.13	74	27.87	spurious
Restrict Band SpuriousEmission												
2483.5	38.02	AV	260	1.3	H	27.54	3.06	30.98	37.64	54	16.36	spurious
2483.5	34.56	AV	251	1.3	V	27.54	3.06	30.48	34.68	54	19.32	spurious
2320.6	34.25	AV	270	1.1	V	27.54	3.00	30.12	34.67	54	19.33	spurious
2320.6	34.16	AV	277	1.2	H	27.54	3.00	30.58	34.12	54	19.88	spurious
2483.5	52.68	PK	260	1.3	H	27.54	3.06	30.98	52.3	74	21.70	spurious
2483.5	51.73	PK	251	1.3	V	27.54	3.06	30.48	51.85	74	22.15	spurious
2320.6	46.89	PK	268	1.1	V	27.54	3.00	30.12	47.31	74	26.69	spurious
2320.6	46.35	PK	283	1.2	H	27.54	3.00	30.58	46.31	74	27.69	spurious

Test mode: Transmitting (EDR)

Below 1 GHz



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (degree)	Limit (dBµV/m)	Margin (dB)
151.989750	38.9	187.0	H	78.0	43.5	4.6
95.960000	38.7	273.0	H	246.0	43.5	4.8
104.009000	38.5	400.0	H	77.0	43.5	5.0
256.010000	40.9	102.0	H	42.0	46.0	5.1
288.020000	38.6	390.0	V	129.0	46.0	7.4
392.050000	37.6	303.0	V	158.0	46.0	8.4

Above 1 GHz

Frequency (MHz)	S.A. Reading (dBµV/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre- Amp. (dB)	Cord. Amp. (dBµV/m)	FCC Part 15.247/209		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	Remarks
Low Channel (2402 MHz)												
1199.7	40.72	AV	117	1.2	V	26.83	2.04	24.8	44.79	54	9.21	spurious
1194.7	38.47	AV	167	1.3	H	26.83	2.04	25.9	41.44	54	12.56	spurious
1600.9	39.95	AV	260	1.5	V	26.83	2.33	27.8	41.31	54	12.69	spurious
1592.5	38.03	AV	125	1.3	H	26.83	2.33	27.50	39.69	54	14.31	spurious
1199.7	52.75	PK	122	1.2	V	26.83	2.04	24.8	56.82	74	17.18	spurious
4804	41.10	AV	170	1.2	H	27.51	4.30	36.30	36.61	54	17.39	harmonic
1592.5	54.75	PK	125	1.3	H	26.83	2.33	27.50	56.41	74	17.59	spurious
4804	38.55	AV	125	1.1	V	27.51	4.30	35.0	35.36	54	18.64	harmonic
1194.7	52.10	PK	156	1.3	H	26.83	2.04	25.9	55.07	74	18.93	spurious
1600.9	53.35	PK	260	1.5	V	26.83	2.33	27.8	54.71	74	19.29	spurious
4804	53.83	PK	123	1.1	V	27.51	4.30	35.0	50.64	74	23.36	harmonic
4804	53.08	PK	168	1.1	H	27.51	4.30	36.30	48.59	74	25.41	harmonic
Middle Channel (2441 MHz)												
1199.4	39.45	AV	184	1.2	V	26.83	2.04	24.8	43.52	54	10.48	spurious
1200.1	39.52	AV	210	1.3	H	26.83	2.04	25.9	42.49	54	11.51	spurious
4882	40.94	AV	30	1.1	H	27.09	4.33	36.40	35.96	54	18.04	harmonic
4882	39.65	AV	360	1.3	V	27.09	4.33	35.20	35.87	54	18.13	harmonic
1199.4	51.45	PK	184	1.2	V	26.83	2.04	24.8	55.52	74	18.48	spurious
1200.1	52.20	PK	210	1.3	H	26.83	2.04	25.9	55.17	74	18.83	spurious
4882	56.25	PK	221	1.3	V	27.09	4.33	35.20	52.47	74	21.53	harmonic
4882	53.69	PK	38	1.2	H	27.09	4.33	36.40	48.71	74	25.29	harmonic
High Channel (2480 MHz)												
1196.3	40.62	AV	257	1.2	V	26.83	2.04	24.8	44.69	54	9.31	spurious
1196.3	40.02	AV	257	1.2	H	26.83	2.04	25.9	42.99	54	11.01	spurious
4960	43.41	AV	235	1.3	V	26.65	4.36	35.4	39.02	54	14.98	harmonic
1196.3	51.62	PK	257	1.2	V	26.83	2.04	24.8	55.69	74	18.31	spurious
4960	40.75	AV	246	1.2	H	26.65	4.36	36.6	35.16	54	18.84	harmonic
1196.3	52.03	PK	257	1.2	H	26.83	2.04	25.9	55	74	19.00	spurious
4960	56.99	PK	229	1.3	V	26.65	4.36	35.4	52.6	74	21.40	harmonic
4960	52.93	PK	256	1.2	H	26.65	4.36	36.6	47.34	74	26.66	harmonic
Restrict Band SpuriousEmission												
2483.5	38.84	AV	151	1.2	V	27.54	3.06	30.48	38.96	54	15.04	spurious
2483.5	39.11	AV	180	1.3	H	27.54	3.06	30.98	38.73	54	15.27	spurious
2324.6	34.69	AV	172	1.2	H	27.54	3.00	30.12	35.11	54	18.89	spurious
2324.6	34.65	AV	160	1.1	V	27.54	3.00	30.58	34.61	54	19.39	spurious
2483.5	49.73	PK	151	1.2	V	27.54	3.06	30.48	49.85	74	24.15	spurious
2483.5	50.13	PK	180	1.3	H	27.54	3.06	30.98	49.75	74	24.25	spurious
2324.6	46.38	PK	178	1.2	H	27.54	3.00	30.12	46.8	74	27.20	spurious
2324.6	45.23	PK	168	1.1	V	27.54	3.00	30.58	45.19	74	28.81	spurious

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24

* **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 Procedure

1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 100 kHz, maxhold the channel.
2. Set the adjacent channel of the EUT maxhold another truce
3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

* The testing was performed by Tim Zhang on 2010-06-05.

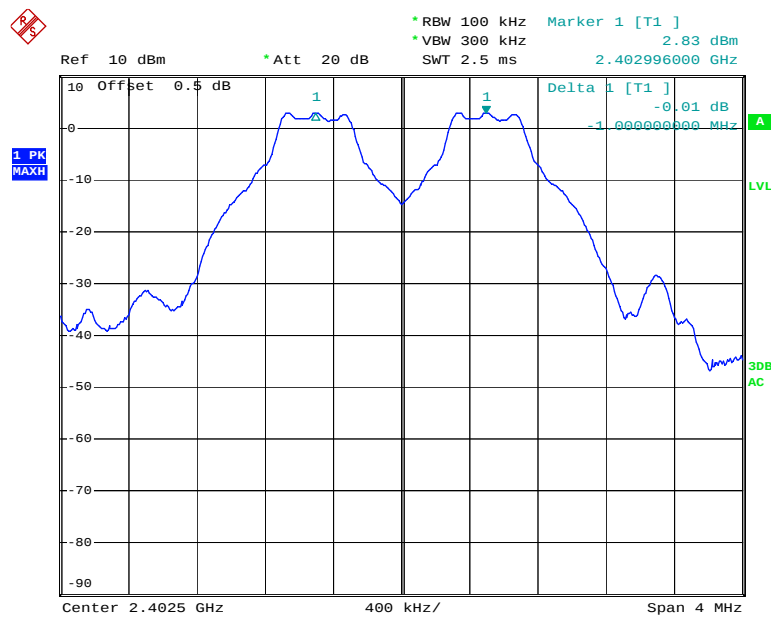
Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

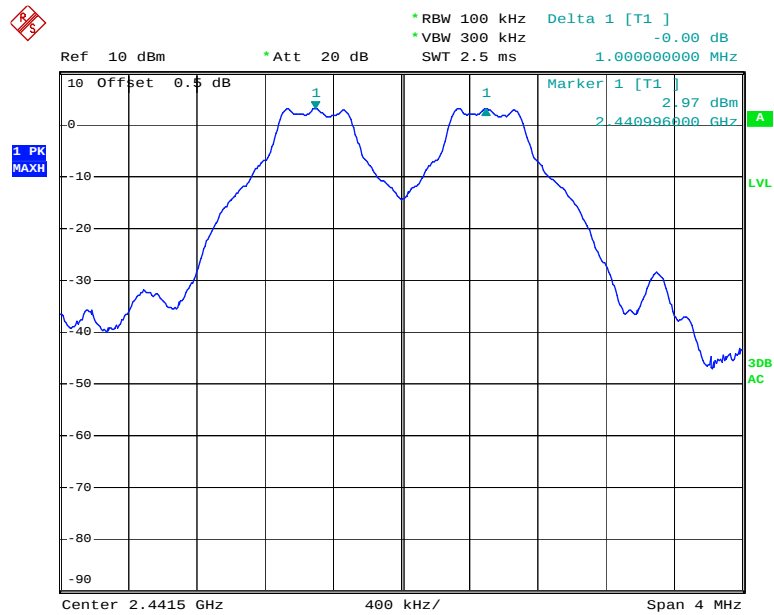
Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.000	0.552	Pass
Adjacent Channel	2403			
Mid Channel	2441	1.000	0.555	Pass
Adjacent Channel	2442			
High Channel	2480	1.000	0.555	Pass
Adjacent Channel	2479			

Please refer to the following plots.

Low Channel

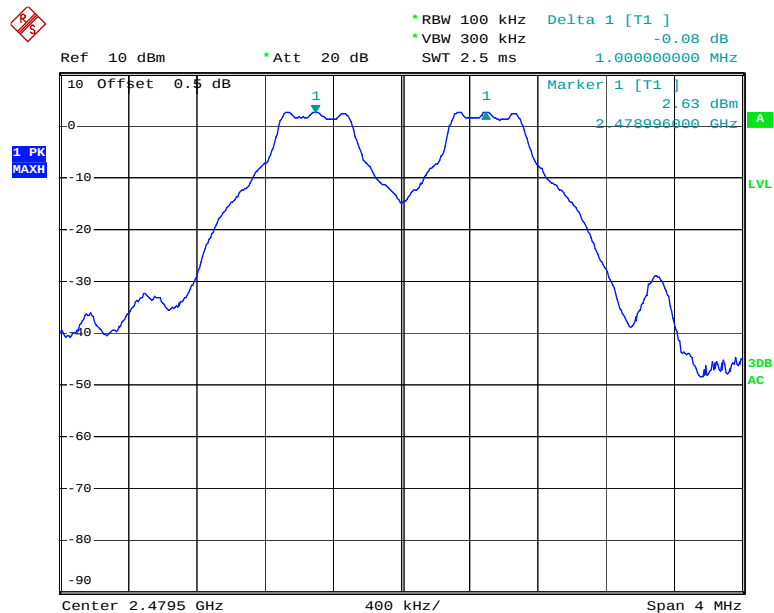
Date: 5.JUN.2010 03:05:21

Middle Channel



Date: 5.JUN.2010 03:03:14

High Channel

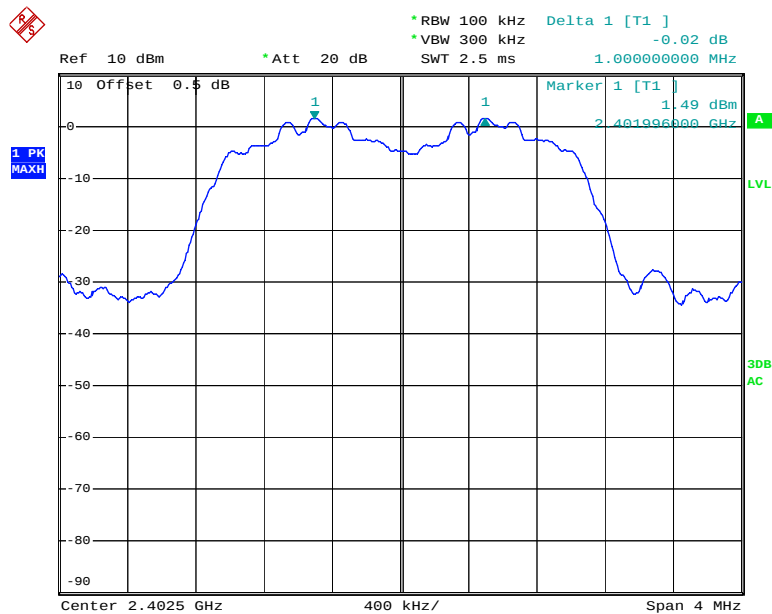


Date: 5.JUN.2010 03:01:05

Test Mode: Transmitting (EDR)

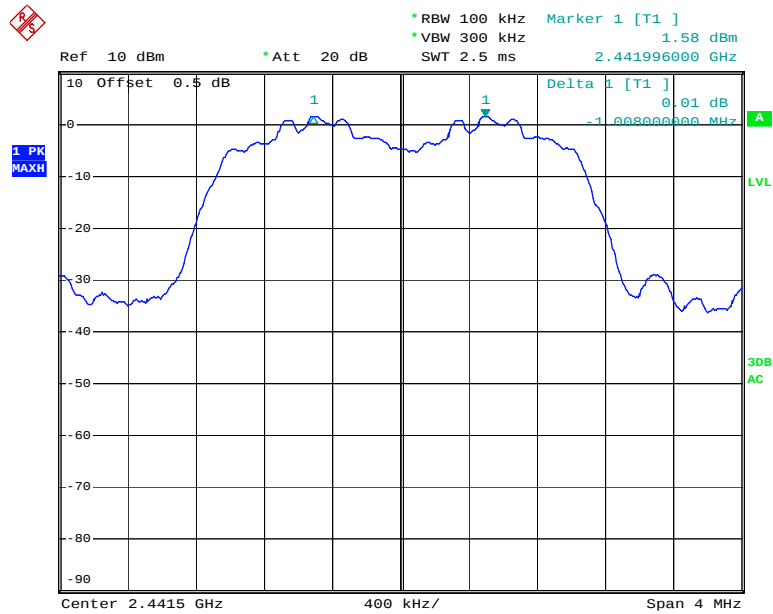
Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.000	0.813	Pass
Adjacent Channel	2403			
Mid Channel	2441	1.008	0.811	Pass
Adjacent Channel	2442			
High Channel	2480	1.000	0.808	Pass
Adjacent Channel	2479			

Please refer to the following plots.

Low Channel

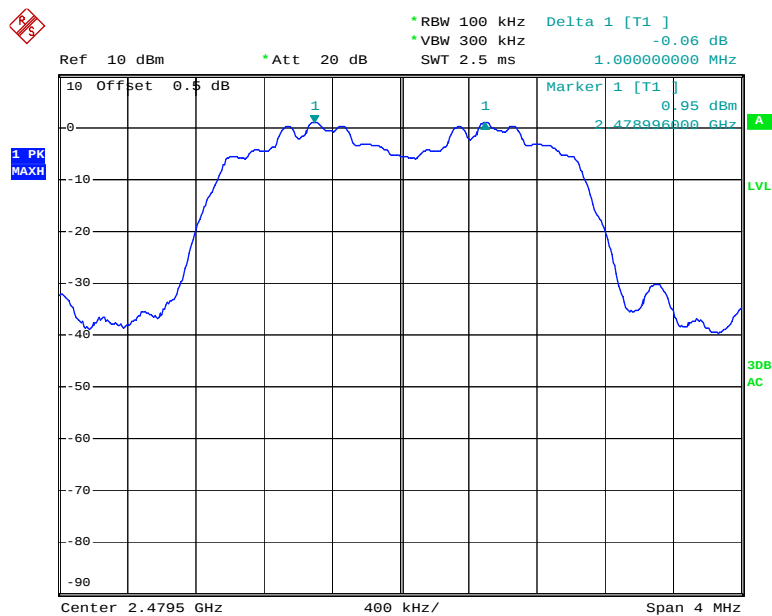
Date: 5.JUN.2010 02:56:32

Middle Channel



Date: 5.JUN.2010 02:54:23

High Channel



Date: 5.JUN.2010 02:58:28

FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24

* **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 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 it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

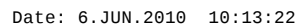
* The testing was performed by Tim Zhang on 2010-06-06.

Test Result: Compliant.

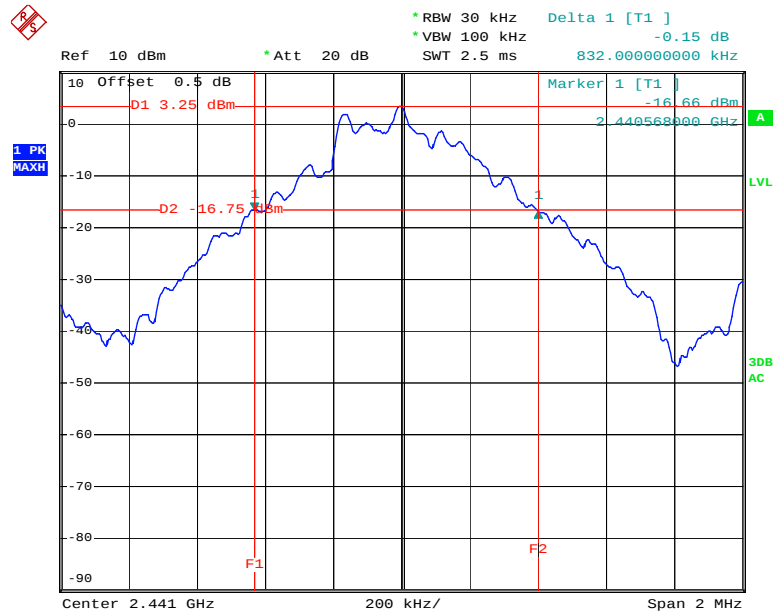
Please refer to following tables and plots

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	0.828
Middle	2441	0.832
High	2480	0.832

Low Channel

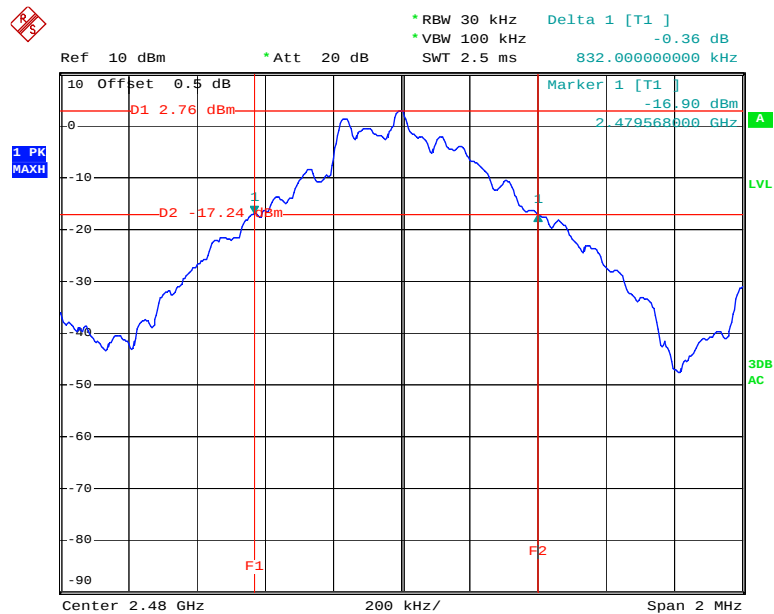


Middle Channel



Date: 6.JUN.2010 10:11:10

High Channel



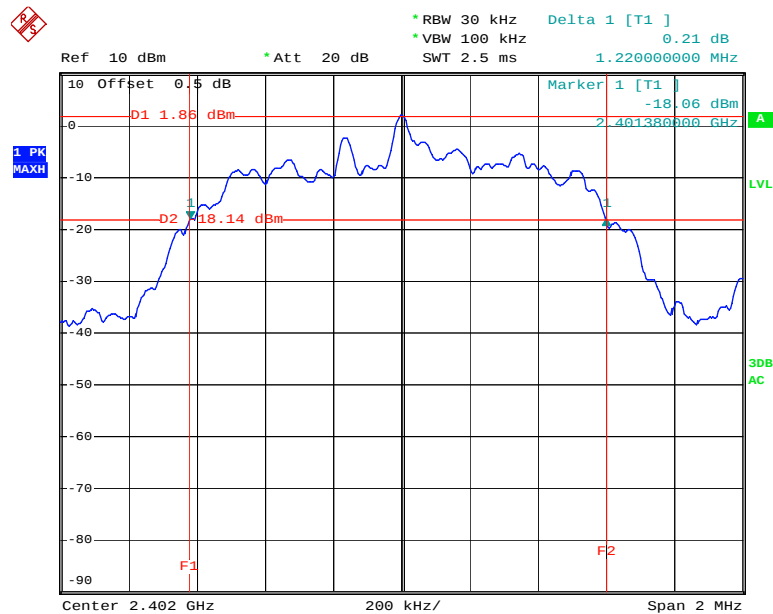
Date: 6.JUN.2010 10:15:18

Test Mode: Transmitting (EDR)

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.220
Middle	2441	1.216
High	2480	1.212

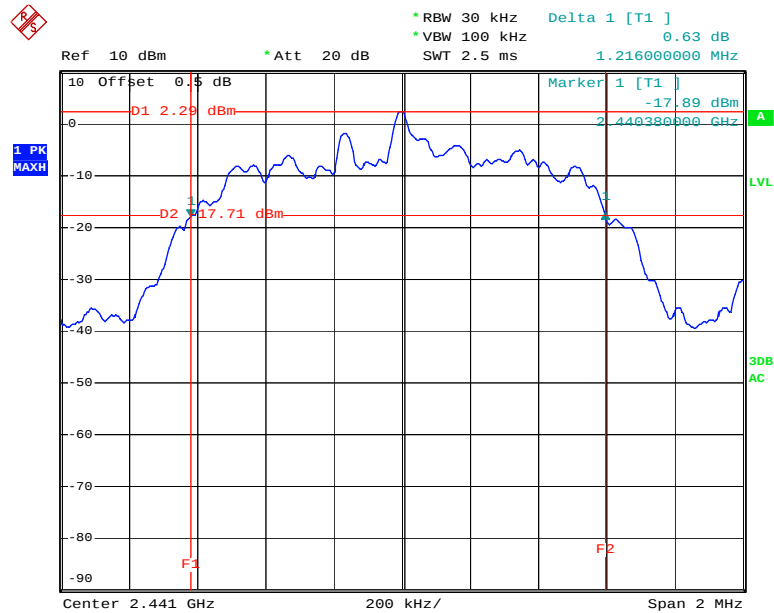
Please refer to the following plots.

Low Channel



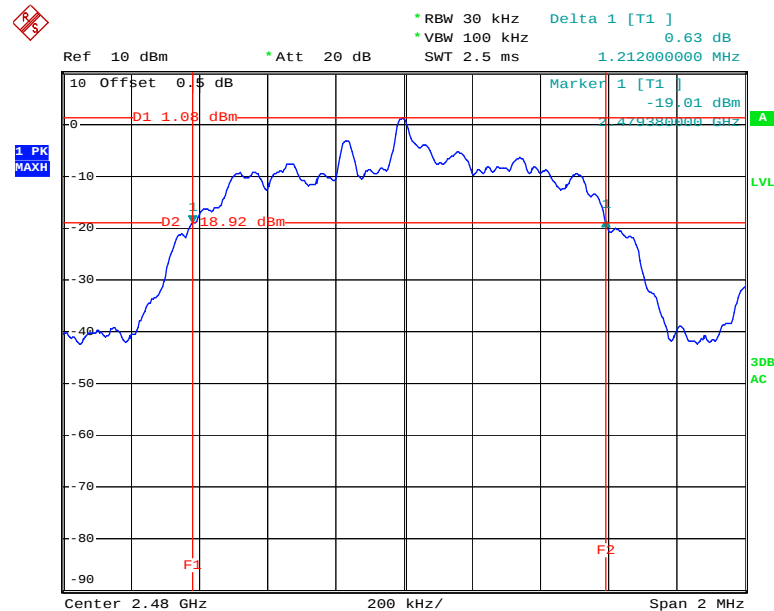
Date: 8.JUN.2010 01:32:55

Middle Channel



Date: 8.JUN.2010 01:36:29

High Channel



Date: 6.JUN.2010 10:18:12

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST**Applicable Standard**

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24

* **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 Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the Max-Hold function record the Quantity of the channel.

Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

The testing was performed by Tim Zhang on 2010-06-07.

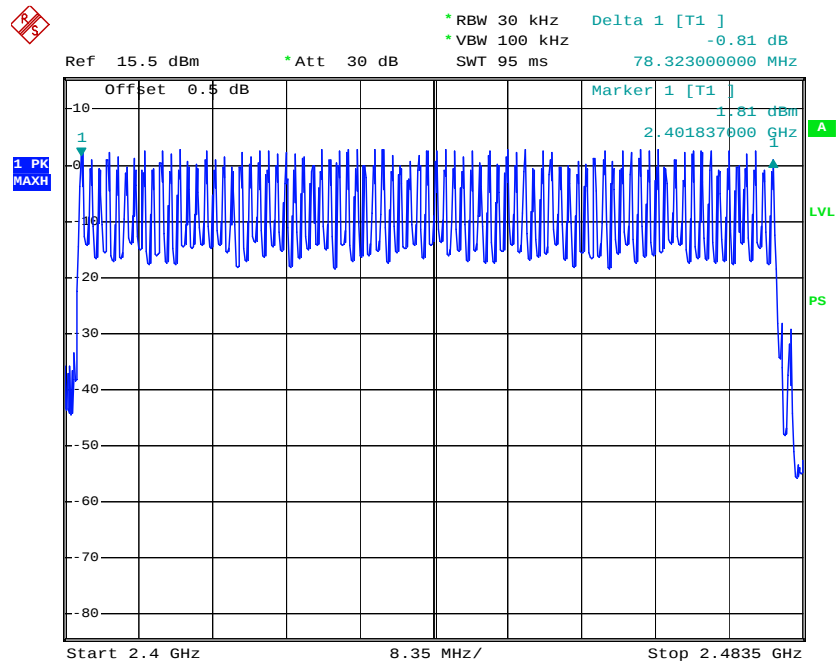
Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
2400~2483.5	79	≥ 15

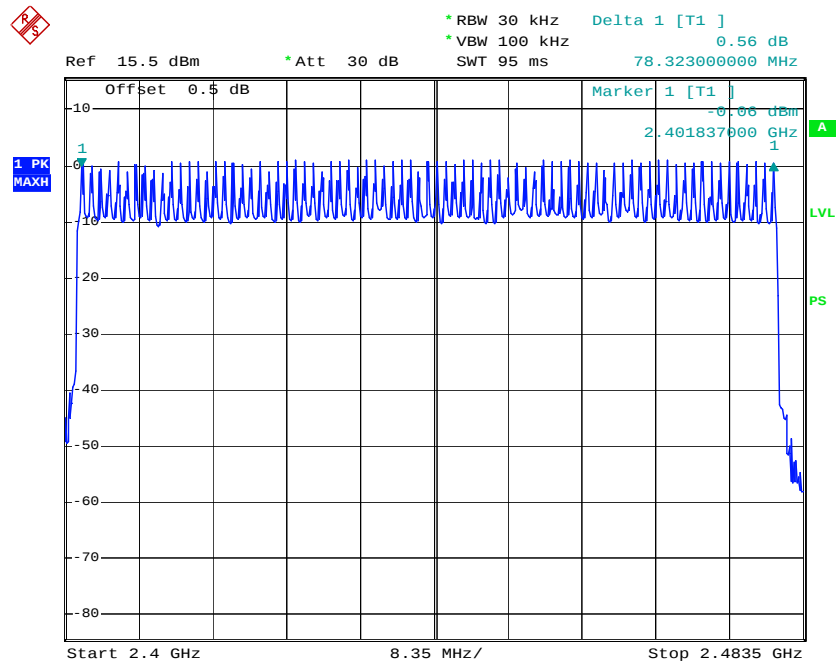
Number of Hopping Channels



Test Mode: Transmitting (EDR)

Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
2400~2483.5	79	≥ 15

Number of Hopping Channels



FCC §15.247(a) (1) (iii) -TIME OF OCCUPANCY (DWEELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24

* **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 Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 X channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s
Hop rate=1600/s

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

* The testing was performed by Tim Zhang on 2010-06-05.

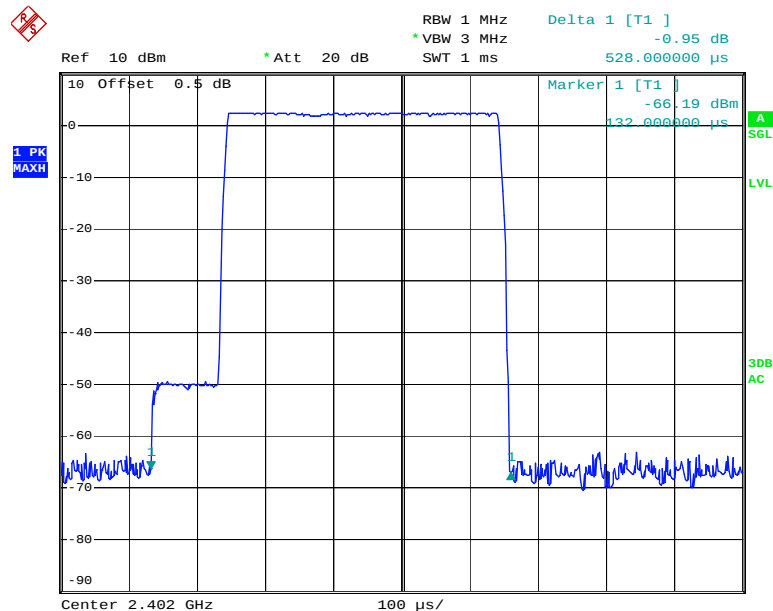
Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

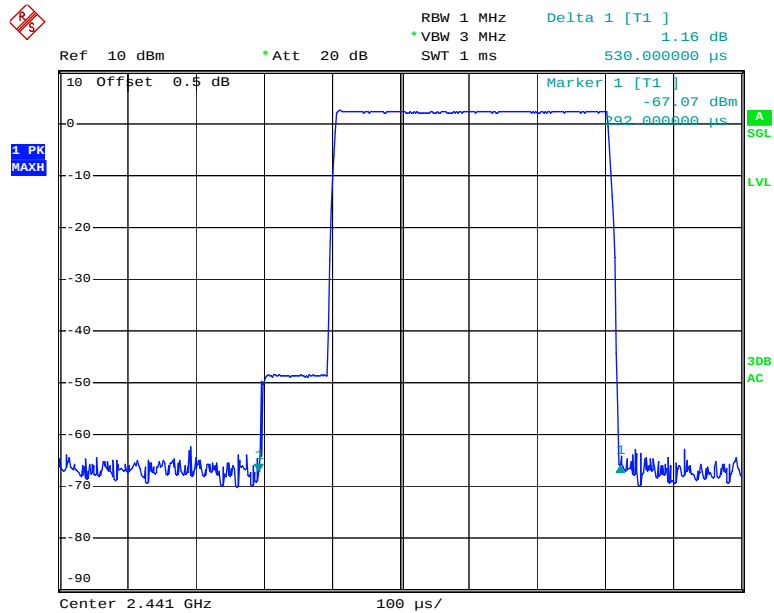
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 1	Low	0.528	0.16896	0.4	Pass
	Middle	0.530	0.16960	0.4	Pass
	High	0.526	0.16832	0.4	Pass
	Note: Dwell time=Pulse width (ms) $\times$ (1600 $\div$ 2 $\div$ 79) $\times$ (79*0.4) Second				
DH 3	Low	1.800	0.28800	0.4	Pass
	Middle	1.800	0.28800	0.4	Pass
	High	1.800	0.28800	0.4	Pass
	Note: Dwell time=Pulse width (ms) $\times$ (1600 $\div$ 4 $\div$ 79) $\times$ (79*0.4) Second				
DH 5	Low	3.050	0.32533	0.4	Pass
	Middle	3.050	0.32533	0.4	Pass
	High	3.050	0.32533	0.4	Pass
	Note: Dwell time=Pulse width (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ (79*0.4) Second				

Please refer to the following plots.

Low Channel for DH1

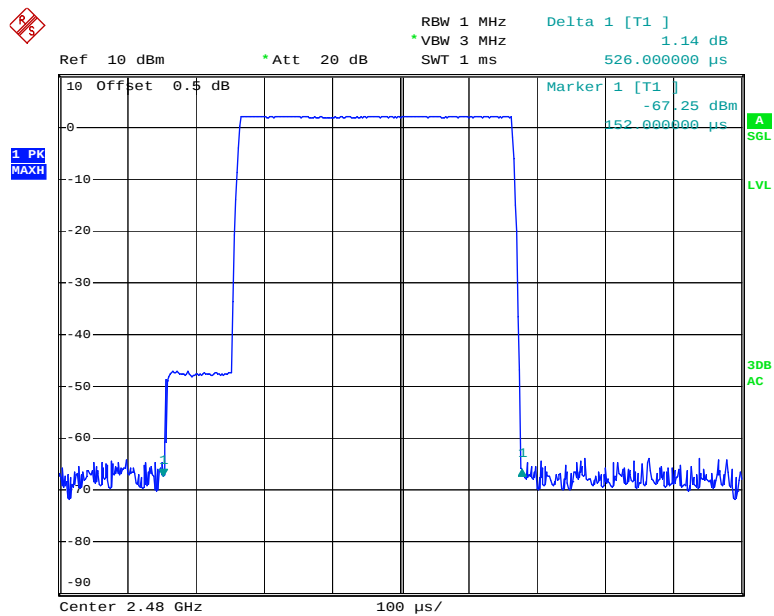
Date: 5.JUN.2010 04:10:36

Middle Channel for DH1



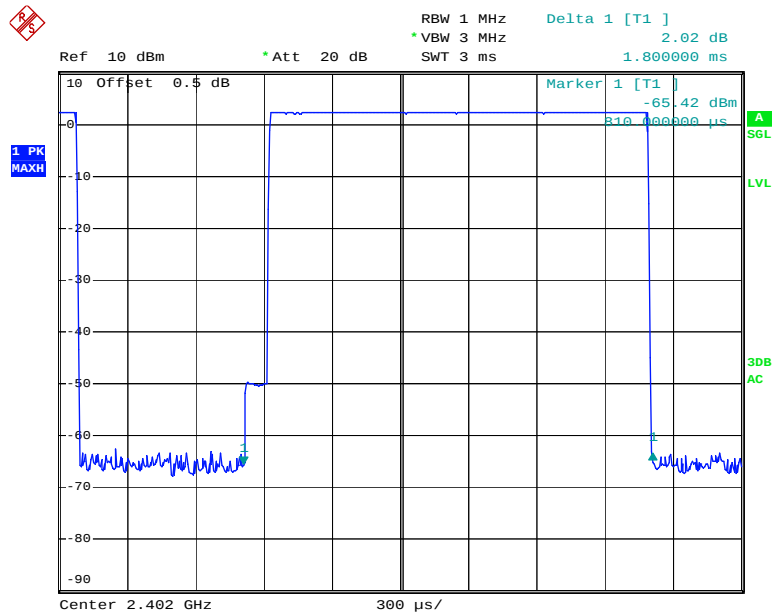
Date: 5.JUN.2010 04:11:34

High Channel for DH1



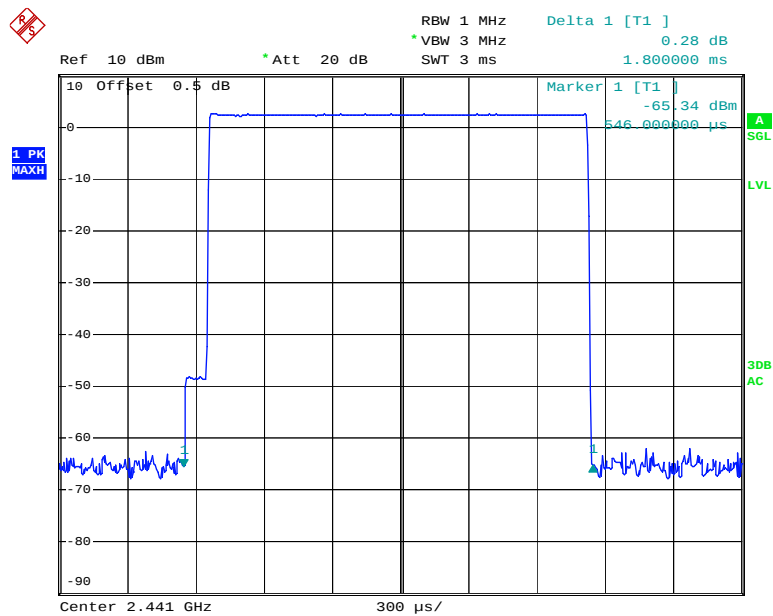
Date: 5.JUN.2010 04:12:21

Low Channel for DH3

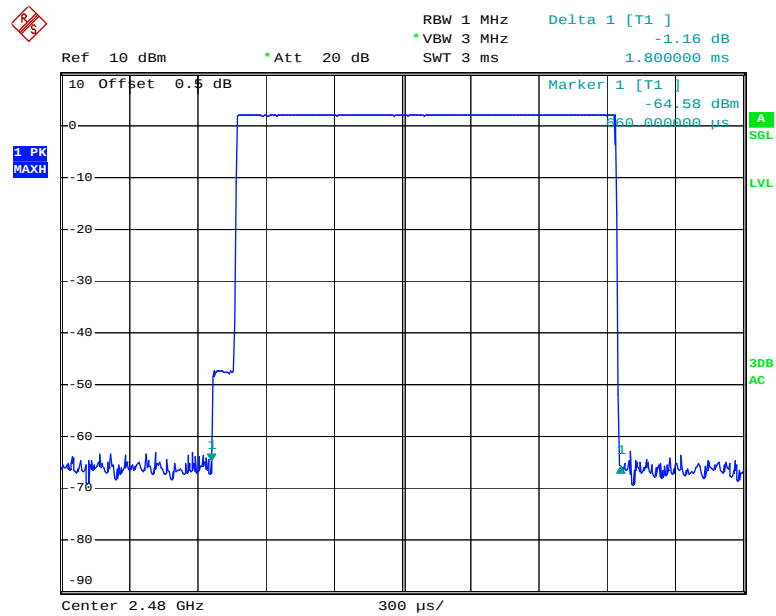


Date: 5.JUN.2010 04:15:01

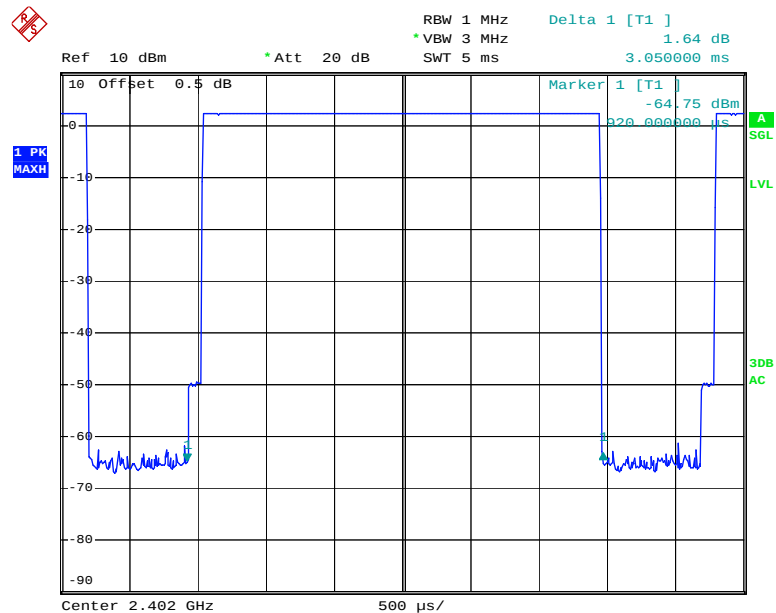
Middle Channel for DH3



Date: 5.JUN.2010 04:15:47

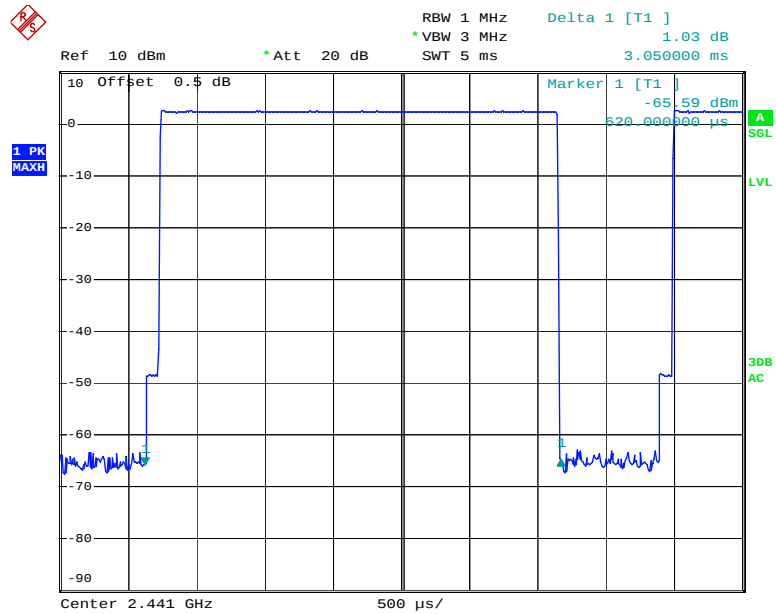
High Channel for DH3

Date: 5.JUN.2010 04:16:52

Low Channel for DH5

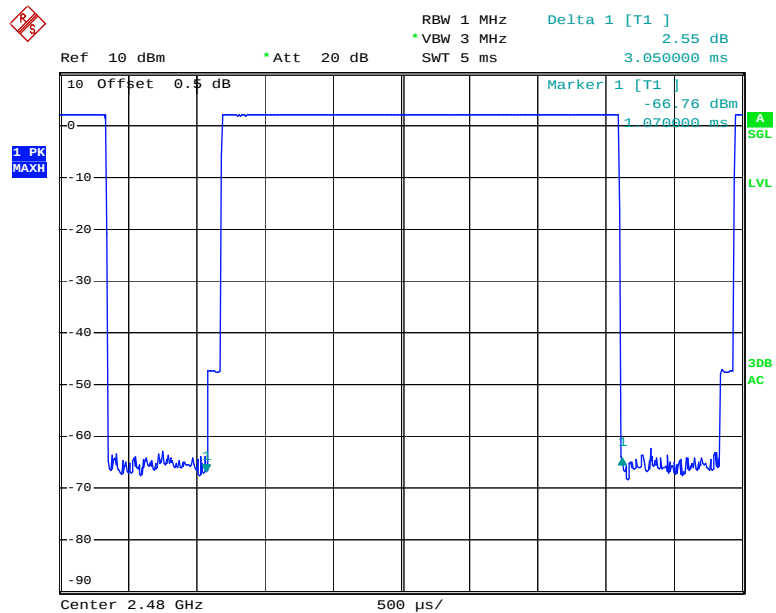
Date: 5.JUN.2010 04:19:49

Middle Channel for DH5



Date: 5.JUN.2010 04:19:03

High Channel for DH5

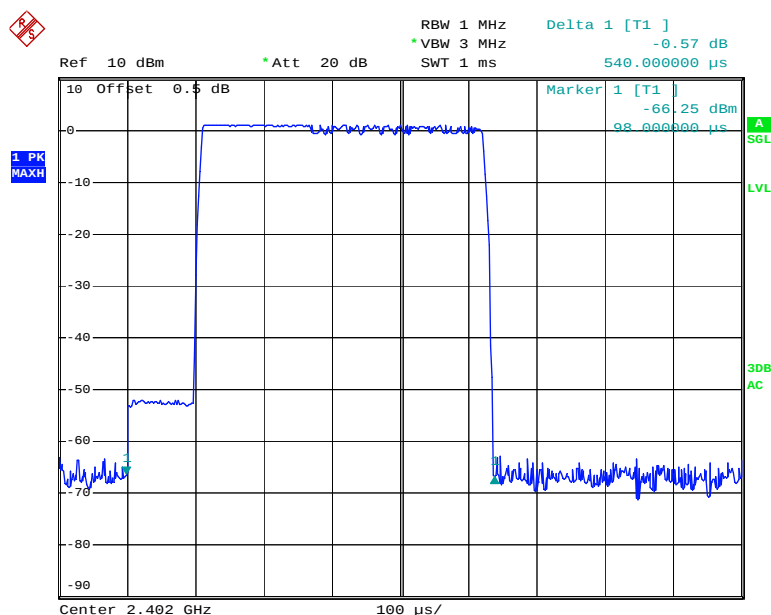


Date: 5.JUN.2010 04:18:14

Test Mode: Transmitting (EDR)

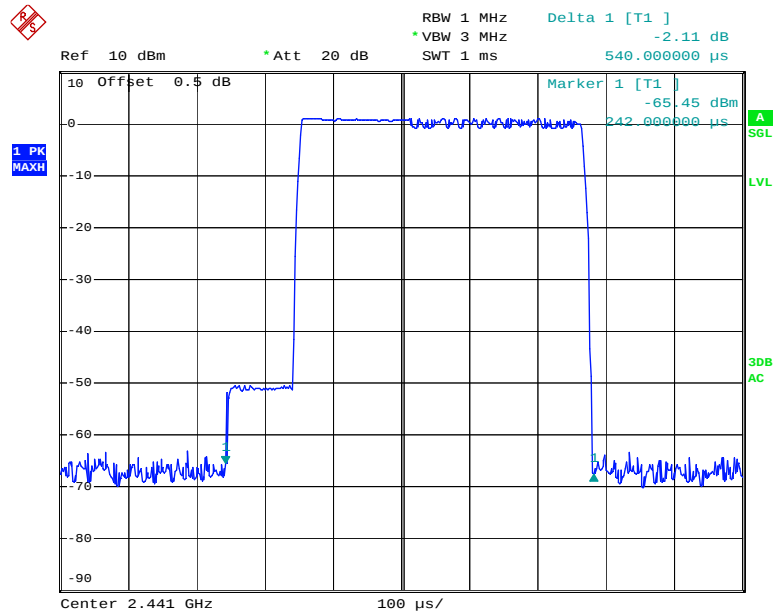
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 1	Low	0.540	0.17280	0.4	Pass
	Middle	0.540	0.17280	0.4	Pass
	High	0.542	0.17344	0.4	Pass
	Note: Dwell time=Pulse width (ms) $\times$ (1600 $\div$ 2 $\div$ 79) $\times$ (79*0.4) Second				
DH 3	Low	1.805	0.28880	0.4	Pass
	Middle	1.810	0.28960	0.4	Pass
	High	1.805	0.28880	0.4	Pass
	Note: Dwell time=Pulse width (ms) $\times$ (1600 $\div$ 4 $\div$ 79) $\times$ (79*0.4) Second				
DH 5	Low	3.060	0.32640	0.4	Pass
	Middle	3.070	0.32747	0.4	Pass
	High	3.070	0.32747	0.4	Pass
	Note: Dwell time=Pulse width (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ (79*0.4) Second				

Please refer to the following plots.

Low Channel for DH1

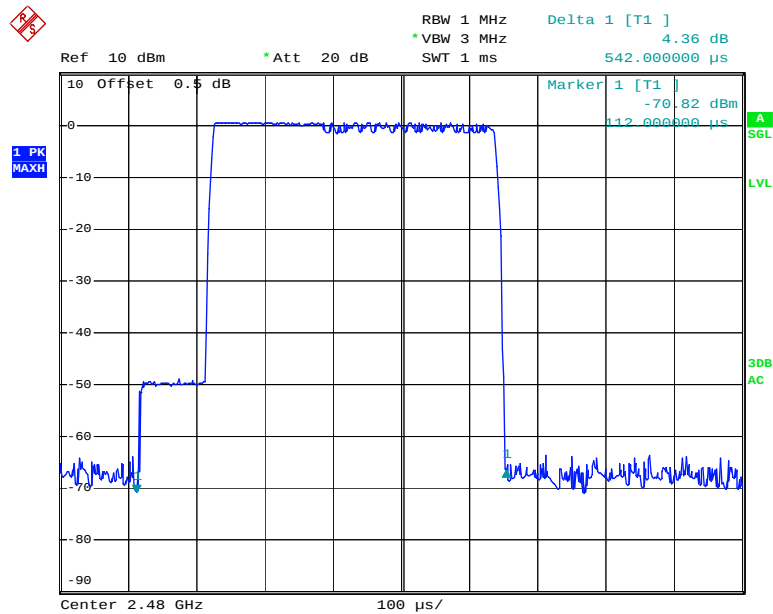
Date: 5 JUN. 2010 04:24:06

Middle Channel for DH1



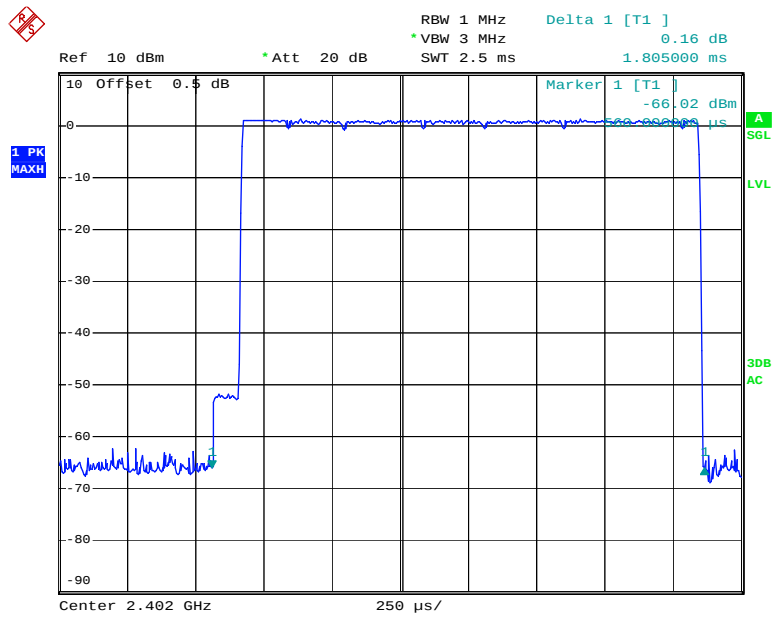
Date: 5.JUN.2010 04:25:18

High Channel for DH1



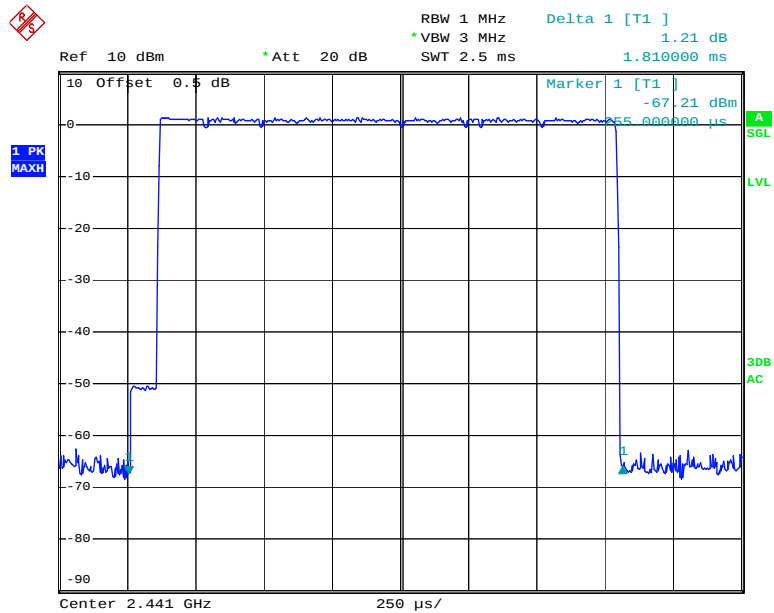
Date: 5.JUN.2010 04:26:20

Low Channel for DH3

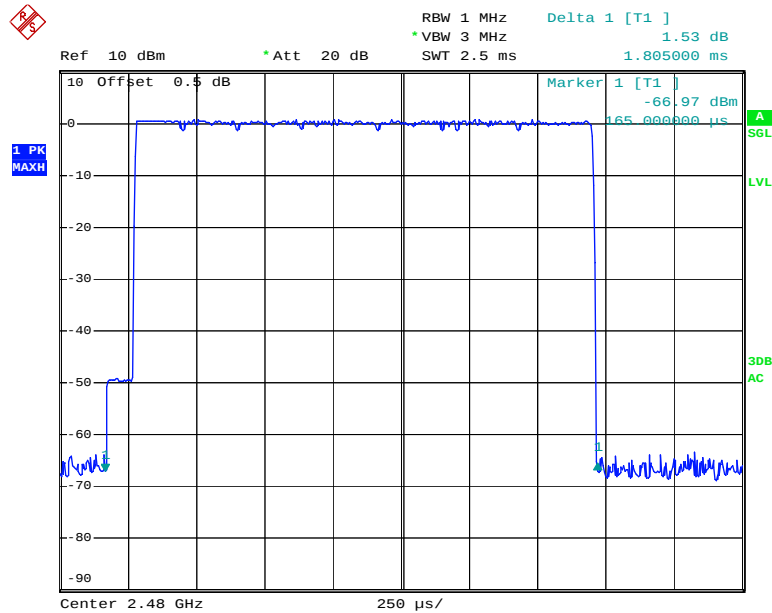


Date: 5.JUN.2010 04:31:09

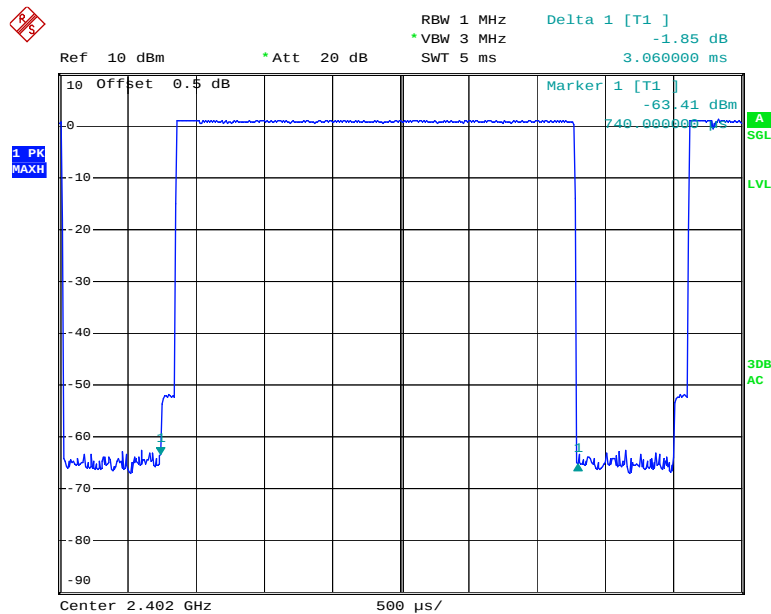
Middle Channel for DH3



Date: 5.JUN.2010 04:29:16

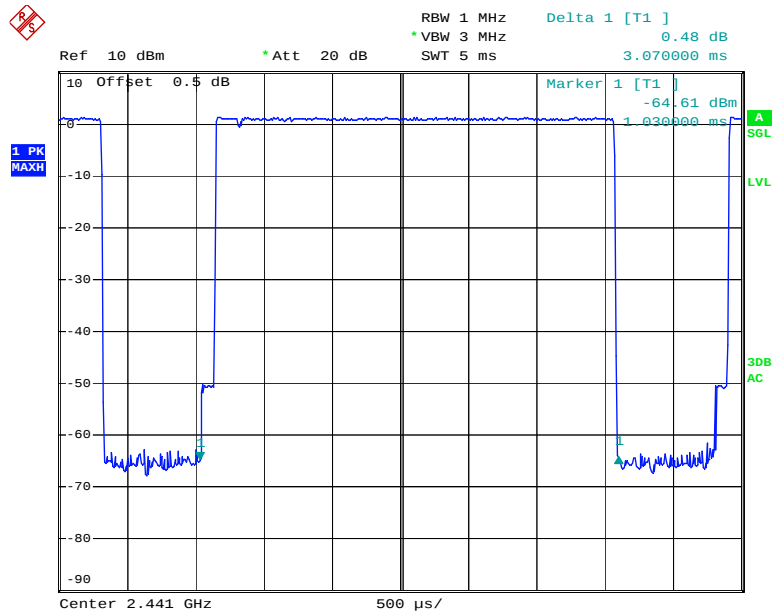
High Channel for DH3

Date: 5.JUN.2010 04:28:21

Low Channel for DH5

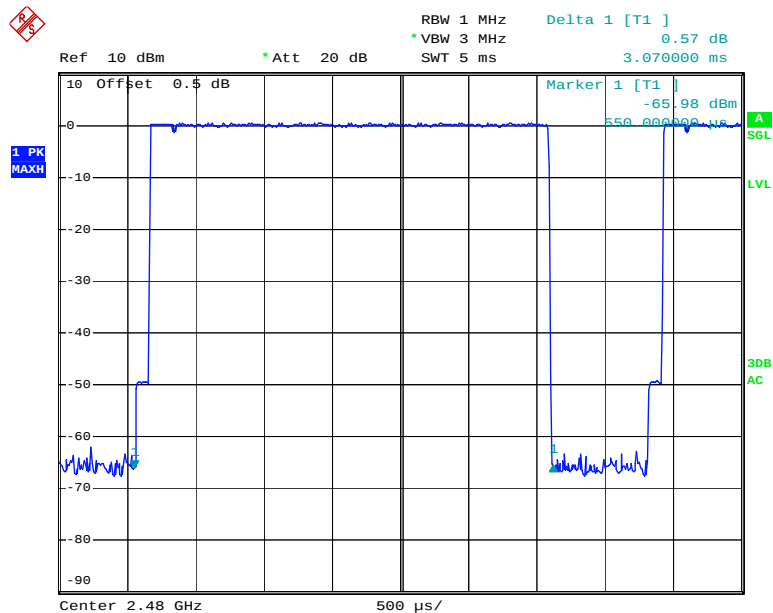
Date: 5.JUN.2010 04:32:24

Middle Channel for DH5



Date: 5.JUN.2010 04:33:15

High Channel for DH5



Date: 5.JUN.2010 04:34:03

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

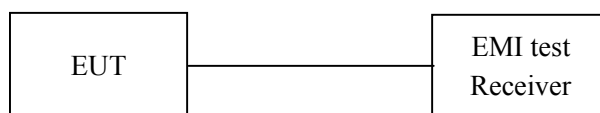
Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24

* **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 Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

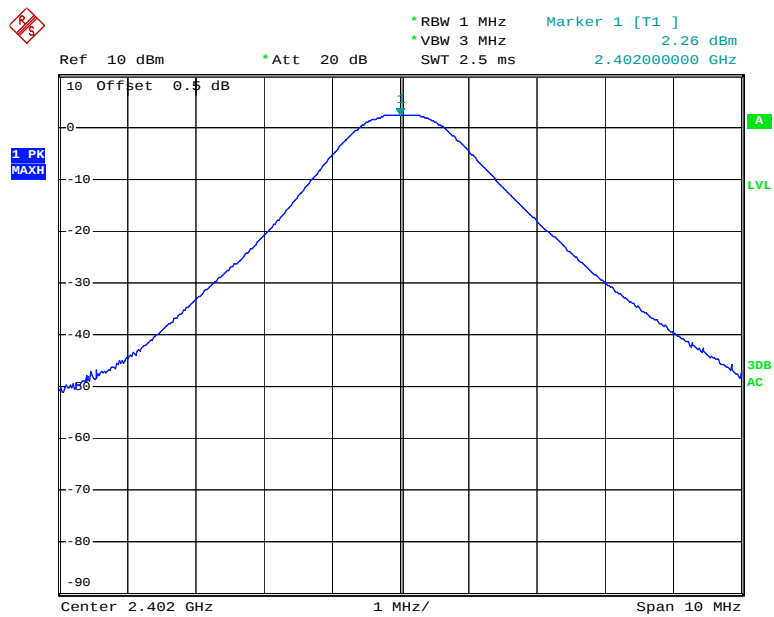
* The testing was performed by Tim Zhang on 2010-06-05.

Test Result: Compliant.

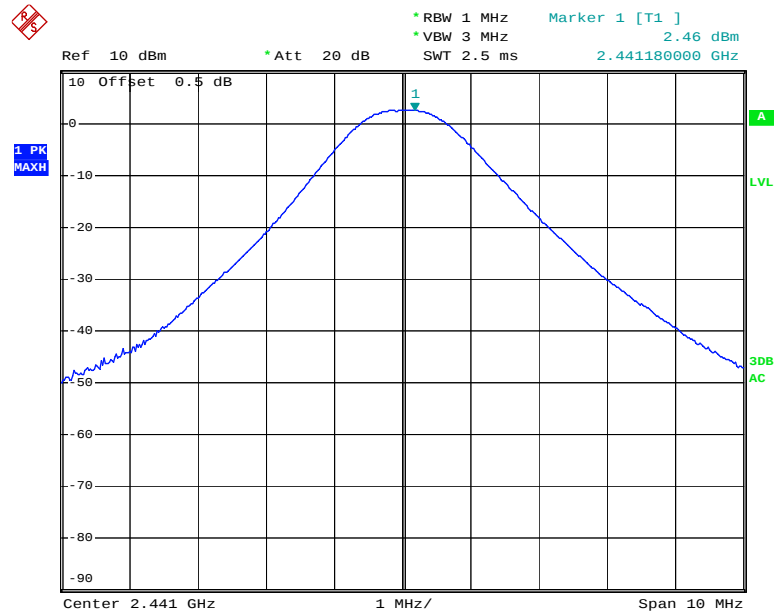
Test Mode: Transmitting (BDR)

Channel	Channel Frequency (MHz)	Conducted Output Power		Limit (mW)
		(dBm)	(mW)	
Low	2402	2.26	1.683	1000
Middle	2441	2.46	1.762	1000
High	2480	2.03	1.596	1000

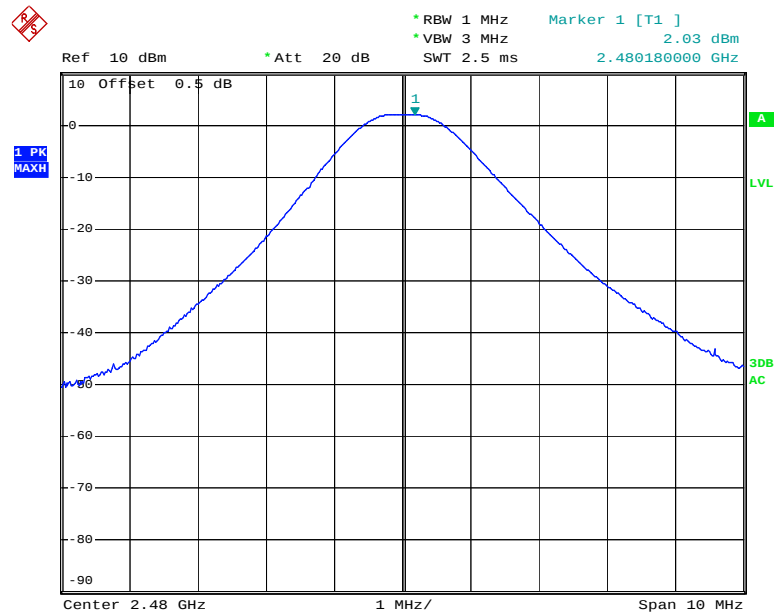
Low Channel



Date: 5.JUN.2010 03:38:03

Middle Channel

Date: 5.JUN.2010 03:37:04

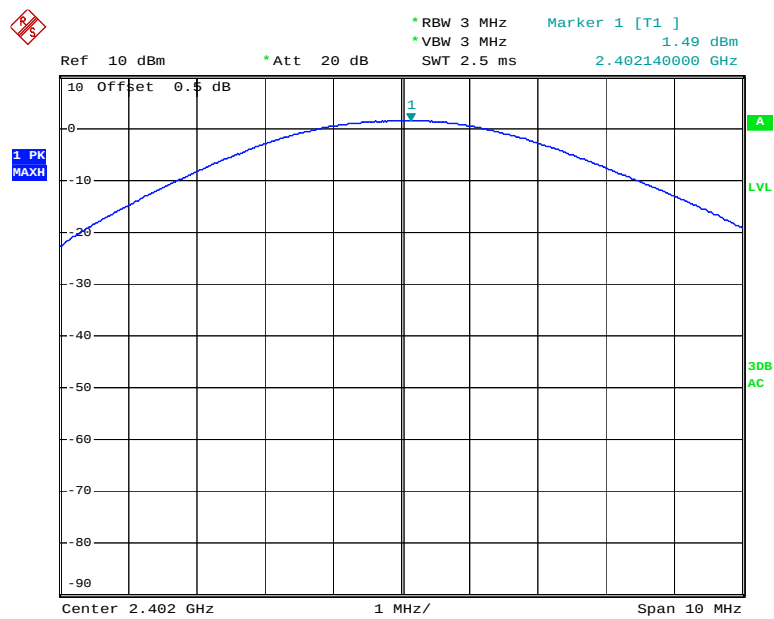
High Channel

Date: 5.JUN.2010 03:36:04

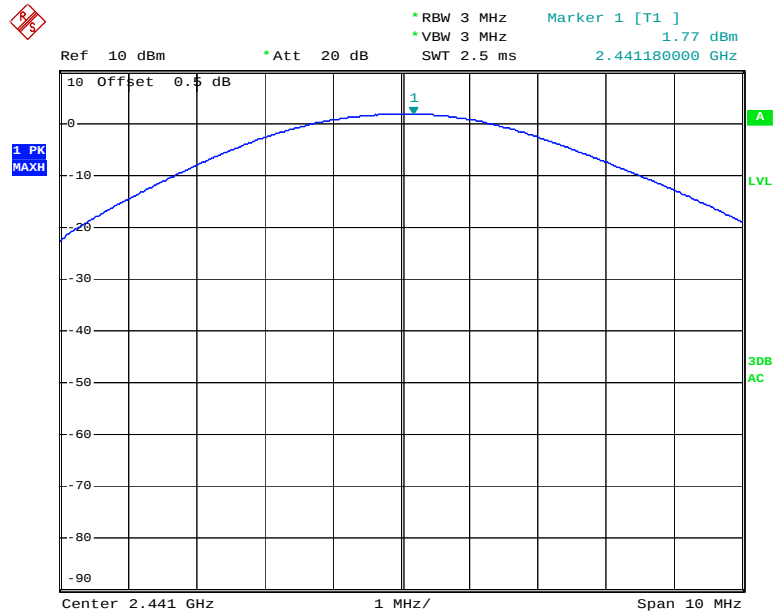
Test Mode: Transmitting (EDR)

Channel	Channel Frequency (MHz)	Conducted Output Power		Limit (mW)
		(dBm)	(mW)	
Low	2402	1.49	1.409	1000
Middle	2441	1.77	1.503	1000
High	2480	0.98	1.253	1000

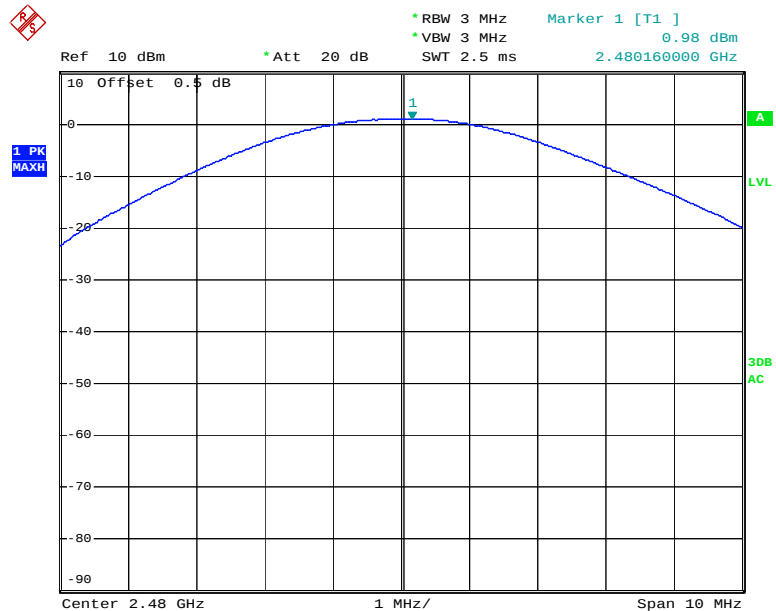
Low Channel



Date: 5.JUN.2010 03:27:38

Middle Channel

Date: 5.JUN.2010 03:28:51

High Channel

Date: 5.JUN.2010 03:31:34

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-24	2010-11-24

* **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 Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz.
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 Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

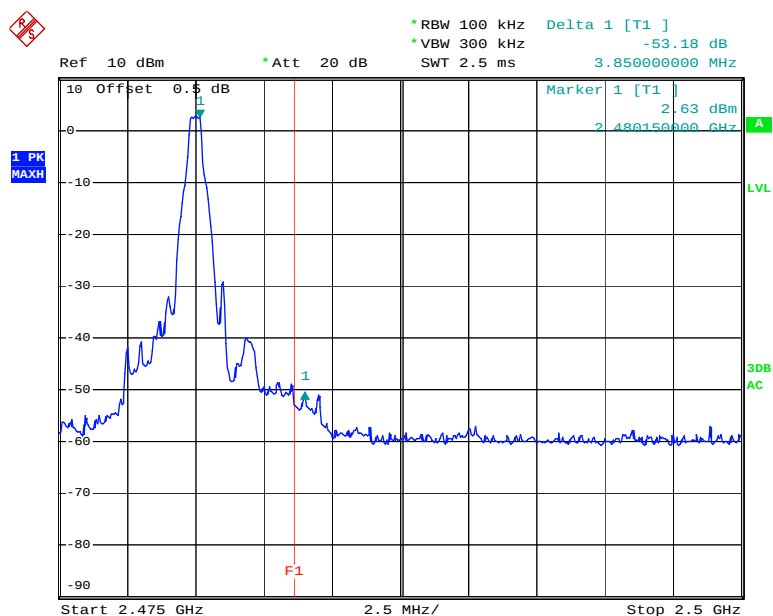
*The testing was performed by Tim Zhang on 2010-06-05

Test Result: Compliant

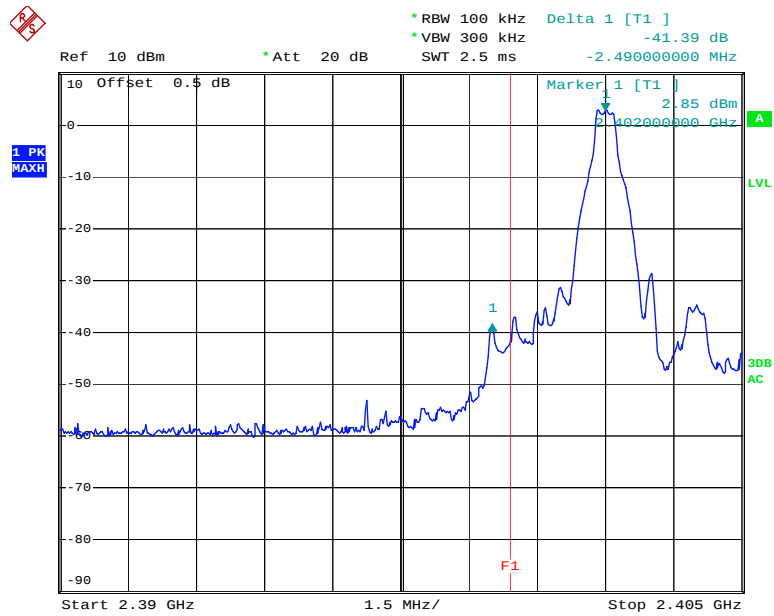
Please refer to the following table and plots.

Test Mode: Transmitting (BDR)

Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)
2399.510	41.39	20
2484.000	53.18	20

Band Edge: Left Side

Date: 5.JUN.2010 04:06:01

Band Edge: Right Side

Date: 5.JUN.2010 03:59:49

Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)
2399.510	46.33	20
2484.050	50.23	20

1 PK
MAXH

Ref 10 dBm *Att 20 dB

*RBW 100 kHz Delta 1 [T1] -50.23 dB
 *VBW 300 kHz SWT 2.5 ms 4.050000000 MHz

Marker 1 [T1] 0.90 dBm
 2 1800000000 GHz

10 Offset 0.5 dB

10 dBm
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80
 -90

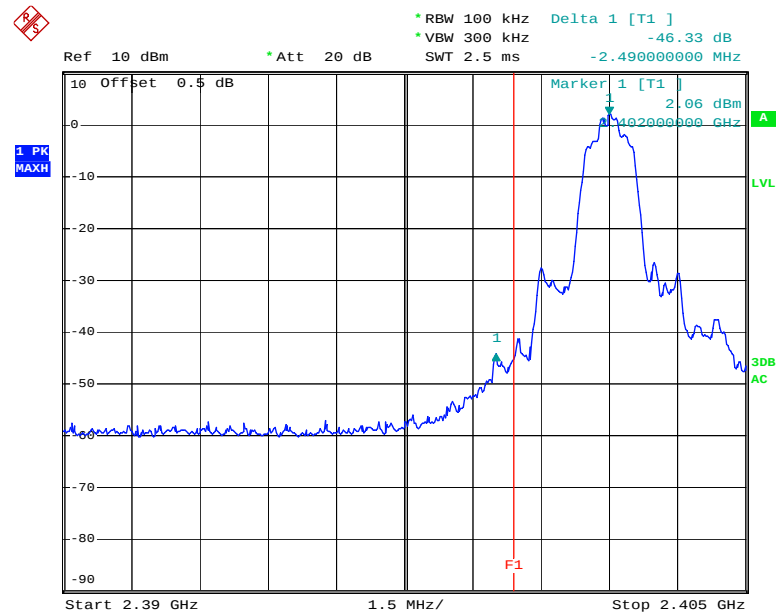
F1

Start 2.475 GHz 2.5 MHz/ Stop 2.5 GHz

LVL
 3DB
 AC

FCC Part15.247 Test Report

Band Edge: Right Side



Date: 8.JUN.2010 01:43:10

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