FCC PART 15.249

TEST REPORT

For

Shenzhen Rapoo Technology Co., Ltd.

22, Jinxiu Road East, Pingshan District, Shenzhen, China

FCC ID: PP203041H

Report Type:	Product Type:
Original Report	2.4G Nano Receiver
Test Engineer:	Dean Liu
Report Number:	RDG141013005-00
Report Date:	2014-10-27
Reviewed By:	Sula Huang RF Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

TABLE OF CONTENTS

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen Rapoo Technology Co., Ltd.*'s product, model number: *03041H (FCC ID: PP203041H)* (the "EUT") in this report was a *2.4G Nano Receiver,* was measured approximately: 1.8 cm (W) x 1.4 cm (H) x 0.5 cm (D), rated input voltage: DC 5V from system.

** All measurement and test data in this report was gathered from production sample serial number: 141013005. (Assigned by BACL.Dongguan). The EUT was received on 2014-10-14.*

Objective

This type approval report is prepared on behalf of *Shenzhen Rapoo Technology Co., 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 compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 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 radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) 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 February 02, 2012. 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.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in engineering mode, which was provided by the manufacturer. The engineering mode was configured under maximum power output and switched the channels by keys.

16 channels were provided by the manufacturer:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	5	2417	9	2432	13	2442
2	2405	6	2420	10	2435	14	2446
3	2413	7	2423	11	2438	15	2457
4	2415	8	2428	12	2440	16	2459

EUT was tested with Channel 2402MHz, 2428MHz and 2459MHz.

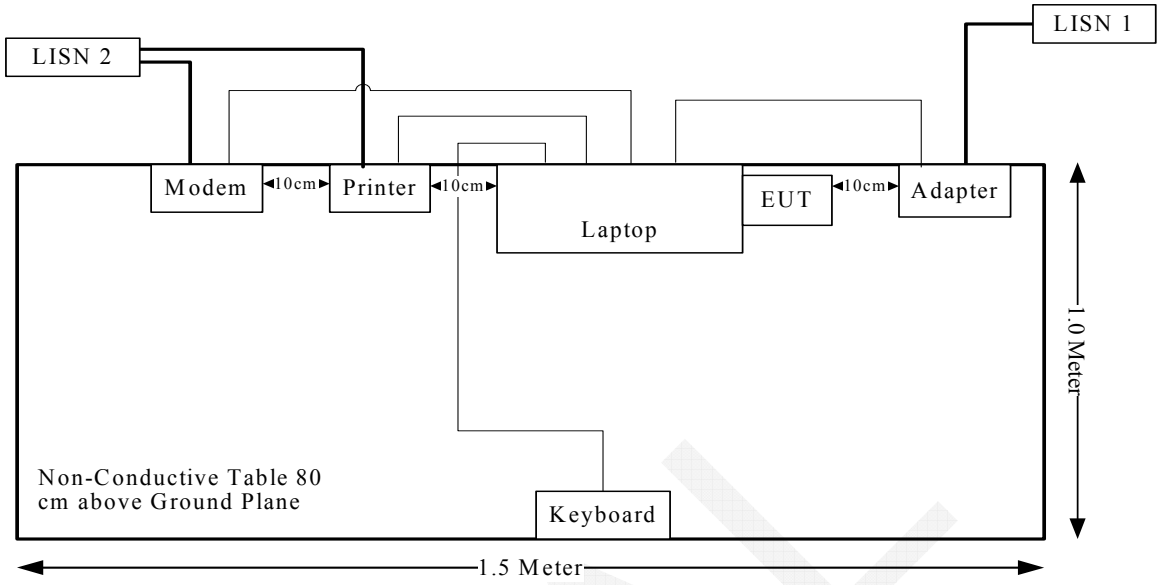
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	QDS-BRCM1017
HP	Printer	C3941A	JPTVOB2337
DELL	Keyboard	L100	CNORH656658907BL05DC
SAST	Modem	AEM-2100	0293
Rapoo	Mouse	M16	N/A

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Serial Cable	yes	No	1.2	Serial Port of Laptop	Modem
Parallel Cable	yes	No	1.2	Parallel Port of Laptop	Printer
Keyboard Cable	Yes	No	1.5	USB Port of Laptop	Keyboard

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Compliance
15.205, §15.209, §15.249	Radiated Emissions	Compliance
§15.215 (c)	20 dB Bandwidth	Compliance
§15.249(d)	Outside of Band Emission (50dB attenuation)	Compliance

Not Applicable: The EUT is battery operated equipment.

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 has one integral antenna arrangement, which was permanently attached, Please refer to the EUT photos.

Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

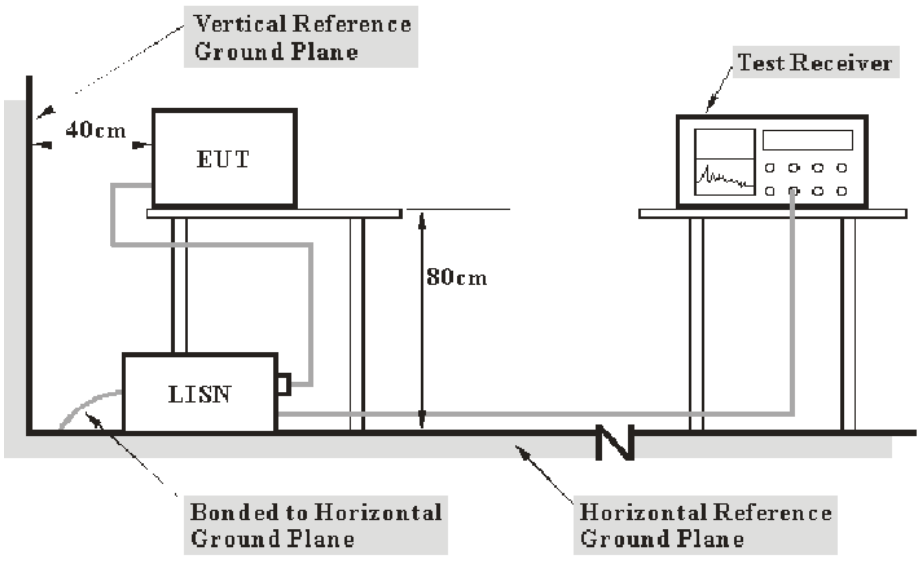
If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 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 laptop 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:

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

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second 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.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division factor of AMN
C_f: Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within 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:

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2013-11-20	2014-11-20
R&S	L.I.S.N	ESH3-Z5	843331/015	N/A	N/A
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-01-22	2015-01-22
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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:

13.9 dB at **15.994231 MHz** in the **Line** conducted mode

Test Data

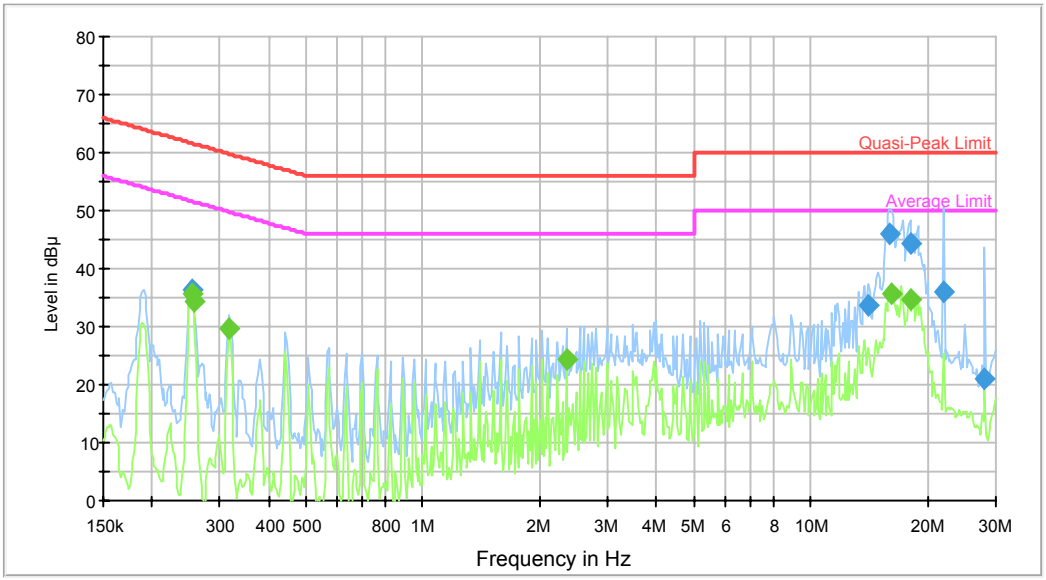
Environmental Conditions

Temperature:	27.5 ° C
Relative Humidity:	56%
ATM Pressure:	101 kPa

The testing was performed by Dean Liu on 2014-10-21.

Test Mode: Operating

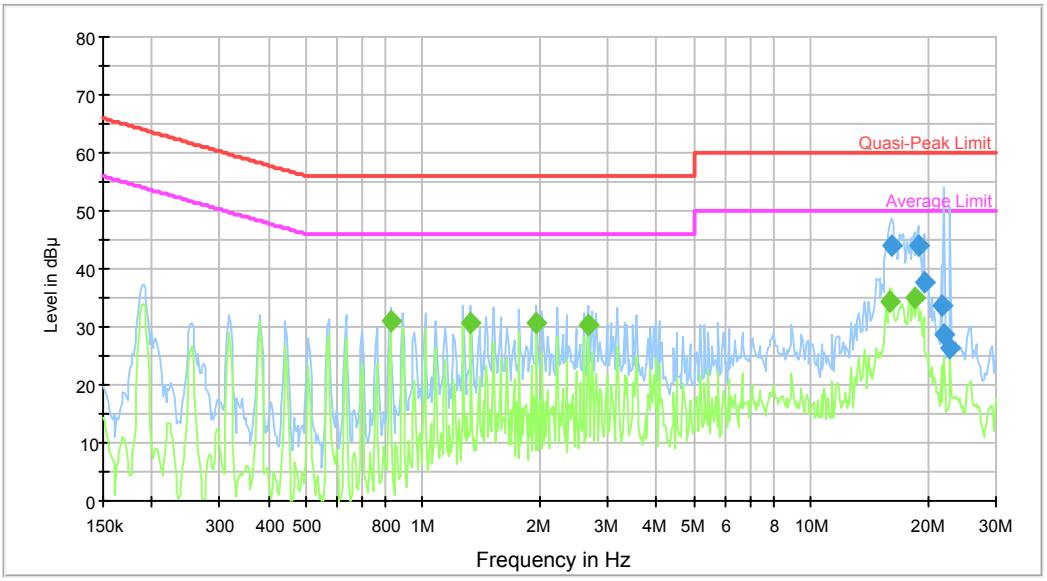
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.253797	36.3	9.000	L1	10.7	25.3	61.6	Compliance
14.079747	33.6	9.000	L1	10.6	26.4	60.0	Compliance
15.994231	46.1	9.000	L1	10.6	13.9	60.0	Compliance
18.024837	44.3	9.000	L1	10.9	15.7	60.0	Compliance
21.998074	36.0	9.000	L1	11.0	24.0	60.0	Compliance
28.161848	21.1	9.000	L1	11.0	38.9	60.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.253797	35.8	9.000	L1	10.7	15.8	51.6	Compliance
0.255827	34.4	9.000	L1	10.7	17.1	51.6	Compliance
0.317235	29.6	9.000	L1	10.7	20.2	49.8	Compliance
2.344095	24.5	9.000	L1	10.5	21.5	46.0	Compliance
16.122185	35.8	9.000	L1	10.6	14.2	50.0	Compliance
18.024837	34.7	9.000	L1	10.9	15.3	50.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
16.122185	44.0	9.000	N	10.6	16.0	60.0	Compliance
18.907519	44.0	9.000	N	11.0	16.0	60.0	Compliance
19.519859	37.7	9.000	N	11.0	22.3	60.0	Compliance
21.650283	33.8	9.000	N	11.0	26.2	60.0	Compliance
21.998074	28.8	9.000	N	11.0	31.2	60.0	Compliance
22.892188	26.5	9.000	N	10.9	33.5	60.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.825364	31.0	9.000	N	10.5	15.0	46.0	Compliance
1.331304	30.6	9.000	N	10.5	15.4	46.0	Compliance
1.967177	30.8	9.000	N	10.5	15.2	46.0	Compliance
2.662831	30.4	9.000	N	10.5	15.6	46.0	Compliance
15.994231	34.4	9.000	N	10.6	15.6	50.0	Compliance
18.460903	34.9	9.000	N	10.9	15.1	50.0	Compliance

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

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

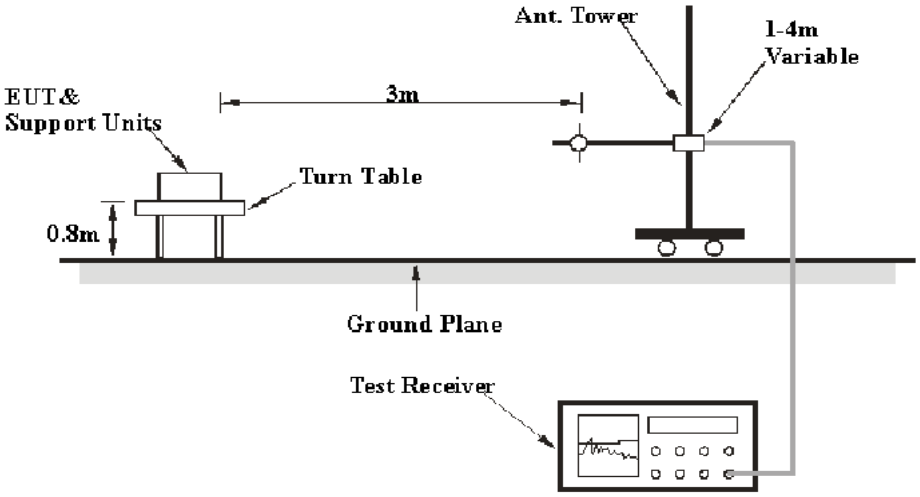
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:
30M~200MHz: 5.0 dB
200M~1GHz: 6.2 dB
1G~6GHz: 4.45 dB
6G~18GHz: 5.23 dB

Table 1 – Values of U_{cispr}

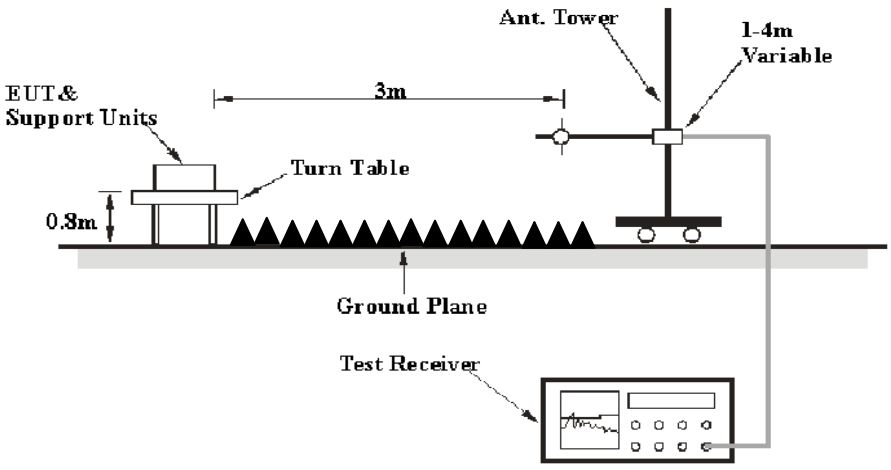
Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1 GHz:



Above 1 GHz:



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 C63.4-2003. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

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

Test Equipment 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:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

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

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit –Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Ducommun Technolagies	Horn Antenna	ARH-2823-02	1007726-01 1302	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2014-09-06	2015-09-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249, with the worst margin reading of:

15.75 dB at **9836 MHz** in the **Horizontal** polarization

Test Data

Environmental Conditions

Temperature:	25.3 °C
Relative Humidity:	55%
ATM Pressure:	101kPa

The testing was performed by Dean Liu on 2014-10-20.

Test Mode: Transmitting

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB(1/m))					
Low Channel: 2402 MHz									
2402	85.96	PK	V	25.65	4.42	27.13	88.90	114.00	25.10
2402	74.21	AV	V	25.65	4.42	27.13	77.15	94.00	16.85
2402	86.52	PK	H	25.65	4.42	27.13	89.46	114.00	24.54
2402	75.85	AV	H	25.65	4.42	27.13	78.79	94.00	15.21
2390	34.85	PK	H	25.61	4.39	27.13	37.72	74.00	36.28
2390	22.36	AV	H	25.61	4.39	27.13	25.23	54.00	28.77
4804	32.56	PK	H	30.59	5.98	27.26	41.87	74.00	32.13
4804	20.07	AV	H	30.59	5.98	27.26	29.38	54.00	24.62
7206	30.47	PK	H	34.09	7.45	26.30	45.71	74.00	28.29
7206	19.26	AV	H	34.09	7.45	26.30	34.50	54.00	19.50
9608	29.72	PK	H	35.96	8.80	26.22	48.26	74.00	25.74
9608	18.49	AV	H	35.96	8.80	26.22	37.03	54.00	16.97
1345	37.69	PK	H	23.20	3.02	27.17	36.74	74.00	37.26
1345	22.92	AV	H	23.20	3.02	27.17	21.97	54.00	32.03
136.5	32.45	QP	H	13.59	1.40	21.42	26.02	43.50	17.48
Middle Channel: 2428 MHz									
2428	86.74	PK	V	25.76	4.40	27.18	89.72	114.00	24.28
2428	75.37	AV	V	25.76	4.40	27.18	78.35	94.00	15.65
2428	87.12	PK	H	25.76	4.40	27.18	90.10	114.00	23.90
2428	76.08	AV	H	25.76	4.40	27.18	79.06	94.00	14.94
4856	32.74	PK	H	30.82	6.08	27.26	42.38	74.00	31.62
4856	20.32	AV	H	30.82	6.08	27.26	29.96	54.00	24.04
7284	31.24	PK	H	34.41	7.52	26.56	46.61	74.00	27.39
7284	19.42	AV	H	34.41	7.52	26.56	34.79	54.00	19.21
9712	29.42	PK	H	36.38	8.84	25.54	49.10	74.00	24.90
9712	18.53	AV	H	36.38	8.84	25.54	38.21	54.00	15.79
1490	35.99	PK	H	23.57	3.06	27.03	35.59	74.00	38.41
1490	23.68	AV	H	23.57	3.06	27.03	23.28	54.00	30.72
136.5	31.98	QP	H	13.59	1.40	21.42	25.55	43.50	17.95
250	46.50	QP	V	12.18	1.92	21.49	39.11	46.00	6.89
High Channel: 2459 MHz									
2459	86.24	PK	V	25.79	4.42	27.20	89.25	114.00	24.75
2459	74.37	AV	V	25.79	4.42	27.20	77.38	94.00	16.62
2459	88.55	PK	H	25.79	4.42	27.20	91.56	114.00	22.44
2459	77.41	AV	H	25.79	4.42	27.20	80.42	94.00	13.58
2485.8	31.87	PK	H	25.86	4.49	27.23	34.99	74.00	39.01
2485.8	20.06	AV	H	25.86	4.49	27.23	23.18	54.00	30.82
4918	30.98	PK	H	30.89	6.00	27.27	40.60	74.00	33.40
4918	20.06	AV	H	30.89	6.00	27.27	29.68	54.00	24.32
7377	31.24	PK	H	34.50	7.54	26.64	46.64	74.00	27.36
7377	19.33	AV	H	34.50	7.54	26.64	34.73	54.00	19.27
9836	29.42	PK	H	36.51	8.85	25.49	49.29	74.00	24.71
9836	18.38	AV	H	36.51	8.85	25.49	38.25	54.00	15.75
1512	33.69	PK	H	23.62	3.08	27.00	33.39	74.00	40.61
1512	21.18	AV	H	23.62	3.08	27.00	20.88	54.00	33.12
136.5	32.74	QP	H	13.59	1.40	21.42	26.31	43.50	17.19

FCC §15.215(c) – 20 dB BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

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 on the test table without connection to measurement instrument. Turn on the EUT. 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.6 °C-24.5°C
Relative Humidity:	48 %-51%
ATM Pressure:	101.2kPa-100.9kPa

** The testing was performed by Dean Liu on 2014-10-23&2014-10-27.*

Test Result: Compliant.

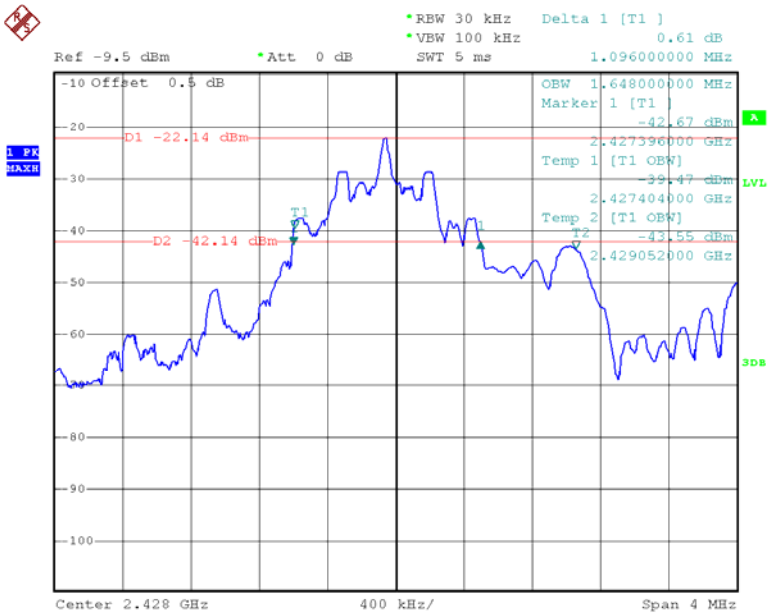
Please refer to following tables and plots

Test Mode: Transmitting

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.104
Middle	2428	1.096
High	2459	1.112

Low Channel

Middle Channel



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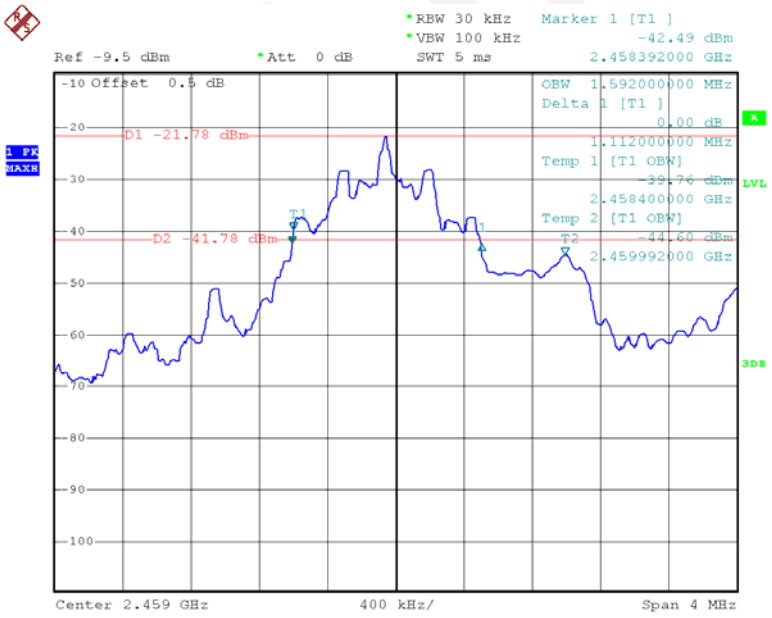
High Channel



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FCC§15.249(d) - OUT OF BAND EMISSION (50 dB 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
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.6 °C
Relative Humidity:	48 %
ATM Pressure:	101.2kPa

** The testing was performed by Dean Liu on 2014-10-23.*

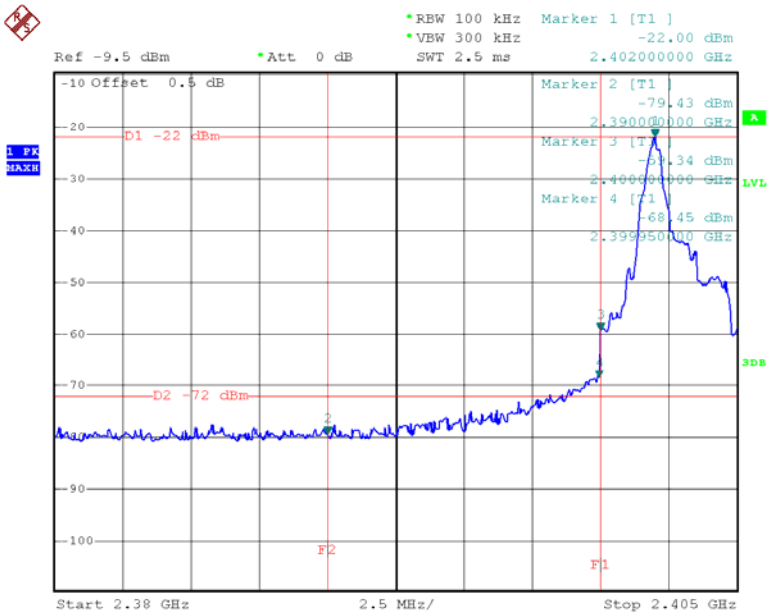
Test Result: Compliant.

Please refer to the following table and plots:

Band Edge	Delta Peak to Band Emission (dBc)	Delta Limit (dBc)
Left	37.34(note)	50
Right	56.46	50

Note： The delta peak to band emission compliant with 15.209 requirement.

Band Edge, Left Side



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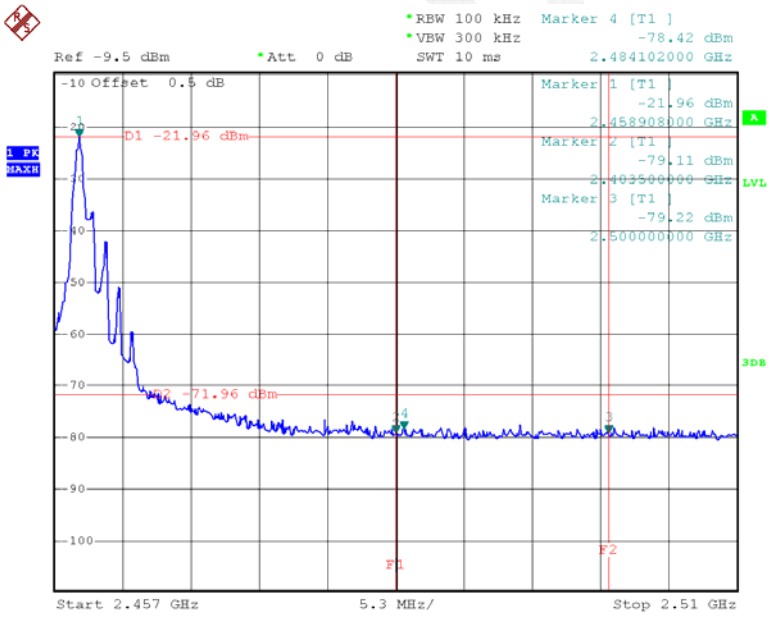
Band Edge, Right Side



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