



FCC PART 15.247

TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

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Shenzhen, Guangdong, China

FCC ID: SS3-GL800A1703

Report Type: Class II permissive change	Product Name: Cendence
Report Number:	RDG170707002-00AA1
Report Date:	2017-07-21
Reviewed By:	Allen Qiao RF Engineer <i>Allen Qiao</i>
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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
MEASUREMENT UNCERTAINTY.....	4
TEST FACILITY	4
SUMMARY OF TEST RESULTS	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
BLOCK DIAGRAM OF TEST SETUP	7
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE	8
APPLICABLE STANDARD	8
TEST RESULT	8
FCC §15.203 - ANTENNA REQUIREMENT.....	9
APPLICABLE STANDARD	9
ANTENNA CONNECTOR CONSTRUCTION	9
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	10
APPLICABLE STANDARD	10
EUT SETUP	10
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	11
TEST PROCEDURE	11
CORRECTED AMPLITUDE & MARGIN CALCULATION	11
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST DATA	12
FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER.....	17
APPLICABLE STANDARD	17
TEST PROCEDURE	17
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST DATA	18
FCC §15.247(e) - POWER SPECTRAL DENSITY	19
APPLICABLE STANDARD	19
TEST PROCEDURE	19
TEST EQUIPMENT LIST AND DETAILS.....	19
TEST DATA	19

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SZ DJI TECHNOLOGY CO., LTD*'s product, model number: *GL800A(FCC ID: SS3-GL800A1703)* (the "EUT") in this report was a *Cendence*, which was measured approximately: 32.0 cm (L) x17.0 cm (W) x 5.0 cm(H), rated input voltage: DC7.6V from Rechargeable Battery.

All measurement and test data in this report was gathered from production sample serial number: 170707002 (Assigned by BACL, Dongguan). The EUT was received on 2017-07-07.

Objective

This report is prepared on behalf of *SZ DJI TECHNOLOGY CO., LTD* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules.

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

This is the Class II Permissive Change application of the device, the original application certified on 2017-05-26. The difference between the original device and the current one is as follows:

- 1.Changed the LB antenna. The gain of the new antenna is 8.91dBi for 2.4GHz band, 8.50dBi for 5.8GHz band.
2. Reduced the conducted output power of LB antenna port.

The changes made to the device affected the test items for LB: Spurious Emissions, Maximum Conducted Output Power and Power Spectral Density, so we updated related test data.

Related Submittal(s)/Grant(s)

FCC Part 15E NII submissions with FCC ID: SS3-GL800A1703.

Part of system granted with FCC ID: SS3-T650A1609.

Original submission with FCC ID: SS3-GL800A1703 which was granted on 2017-05-26.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 dB
Unwanted Emissions	±1.5 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

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 Industry Area, Tangxia, Dongguan, Guangdong, China

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO 17025 by CNAS(Lab code: L5662). And accredited to ISO 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

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.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance*
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance*
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance*
§15.247(e)	Power Spectral Density	Compliance

Note:

The changes made to the device affected the test items for LB, no changes made to the 10MHz mode, for the 10MHz mode, please refer to the original report: RDG170326002A.

Compliance*: The changes made to the device don't affected the results of this test item, please refer to the original granted test report No. RDG170326002A with FCC ID: SS3-GL800A1703, which was issued by Bay Area Compliance Laboratories Corp. (Chengdu) on 2017-04-26.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

For 2.4G band, the device employed two antennas For LB mode, only antenna 2 was used for transmitting, and 45 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	24	2443.1
2	2405.7	25	2444.8
3	2407.4	26	2446.5
~	~	~	~
21	2438.0	44	2477.1
22	2439.7	45	2478.8
23	2441.4	/	/

Per pretest the peak output power for all channels, Low(channel 1)/Middle(channel 23)/High(channel 45) channels were test for all items, and channel 2,3,43,44 were selected to test radiated bandedge and output power.

EUT Exercise Software

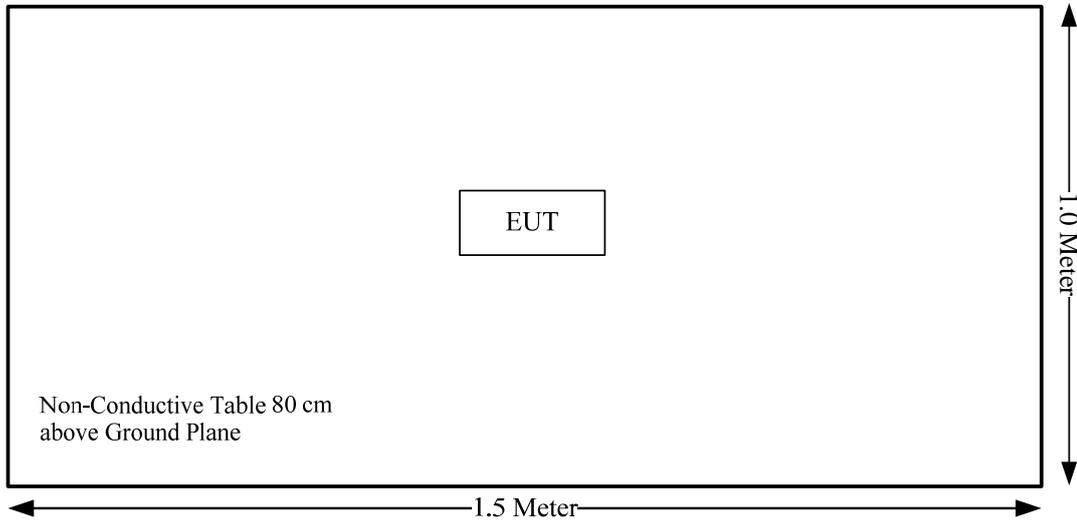
The software “DJI-RF Certification” was used for testing, which was provided by manufacturer. The maximum power for LB mode was configured as default setting by software. The software used for changing channels and modes. the dutycycle information please refer to the original report.

Equipment Modifications

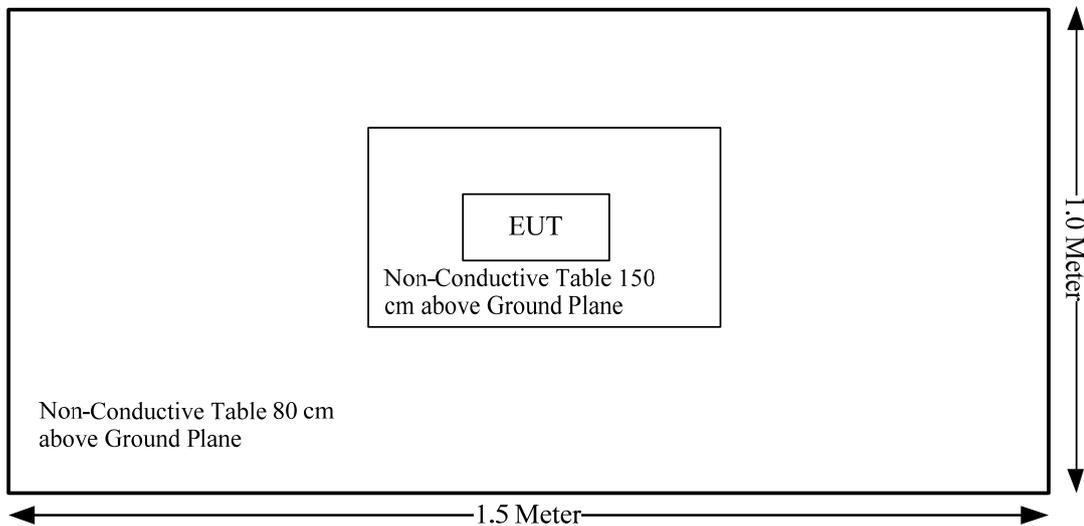
No modification was made to the EUT.

Block Diagram of Test Setup

Radiation Test Below 1GHz:



Radiation Test Above 1GHz:



FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to §15.247(i), §1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RDG170707002-20AA1.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has 2 external antennas arrangement for LB mode with MMCX connector, Antenna 1 only for receiving, antenna 2 for transmitting and receiving, the antenna gain are 8.91dBi for 2.4GHz band, 8.50dBi for 5.8GHz band. Please refer to the EUT photos.

Result: Compliance.

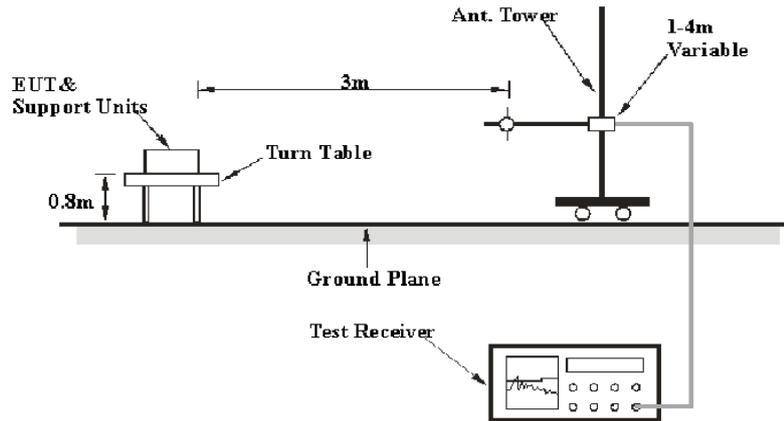
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

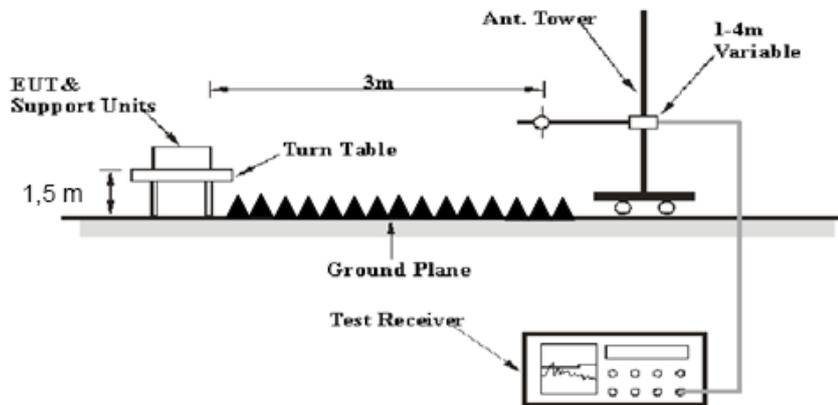
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The spacing between the peripherals was 10 cm.

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:

30MHz-1000MHz:

Detector	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 25GHz:

Detector	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

Test Procedure

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-1 GHz, peak and Average detection modes for frequencies 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:

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

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
R&S	EMI Test Receiver	ESCI	100224	2016-09-01	2017-08-31
Sunol Sciences	Antenna	JB3	A060611-1	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2016-09-01	2017-09-01
R&S	Spectrum Analyzer	FSU 26	200256	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
Mini-Circuit	Amplifier	ZVA-213-S+	SN054201245	2017-02-19	2018-02-19
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2016-09-06	2017-09-06
Unknown	Coaxial Cable	Chamber A-1	4m	2016-09-01	2017-09-01
Unknown	Coaxial Cable	Chamber B-1	0.75m	2016-09-01	2017-09-01
Unknown	Coaxial Cable	Chamber A-2	10m	2016-09-01	2017-09-01
Unknown	Coaxial Cable	Chamber B-2	8m	2016-09-01	2017-09-01
Farad	Test Software	EZ-EMC	V1.1.4.2	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 Data**Environmental Conditions**

Temperature:	25.1~26.4 °C
Relative Humidity:	34~45 %
ATM Pressure:	100.3 kPa

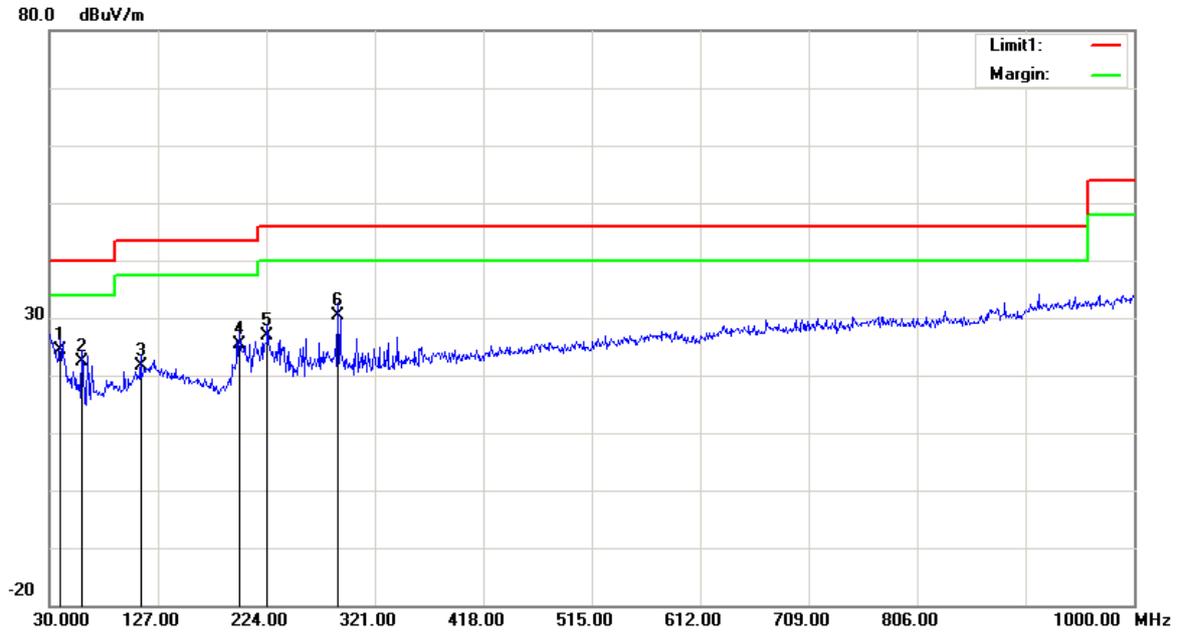
The testing was performed by Tony Zeng on 2017-07-13 & 2017-07-19.

Test Result: Compliance, please Refer to the following data

Test Mode: Transmitting (LB Mode)

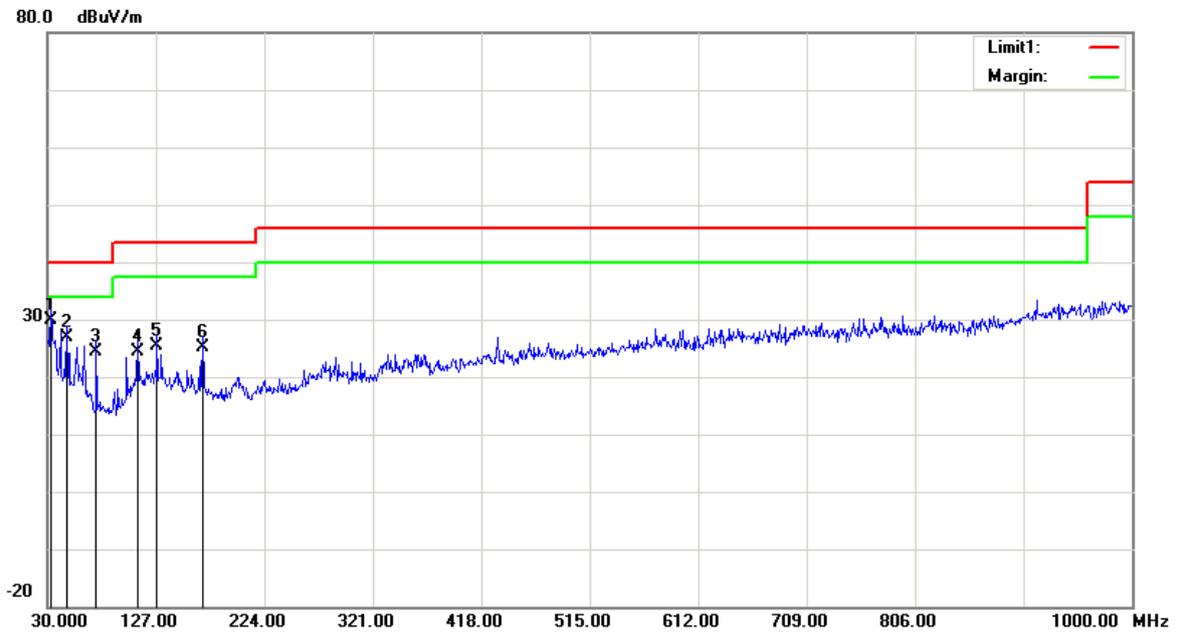
1) 30MHz-1GHz(Middle channel was the worst):

Horizontal:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
39.7000	30.51	QP	-6.21	24.30	40.00	15.70
59.1000	34.77	QP	-12.47	22.30	40.00	17.70
111.4800	27.60	QP	-6.00	21.60	43.50	21.90
199.7500	31.62	QP	-6.32	25.30	43.50	18.20
224.9700	33.83	QP	-6.93	26.90	46.00	19.10
288.0200	34.60	QP	-4.10	30.50	46.00	15.50

Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
32.9100	30.90	QP	-1.10	29.80	40.00	10.20
47.4600	37.79	QP	-10.89	26.90	40.00	13.10
73.6500	35.66	QP	-11.26	24.40	40.00	15.60
110.5100	30.48	QP	-6.18	24.30	43.50	19.20
127.9700	30.39	QP	-5.09	25.30	43.50	18.20
168.7100	32.43	QP	-7.23	25.20	43.50	18.30

2) 1-25GHz:

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)					
Low Channel: 2404 MHz									
2404	72.14	PK	H	28.11	3.11	0.00	103.36	N/A	N/A
2404	61.09	AV	H	28.11	3.11	0.00	92.31	N/A	N/A
2404	86.66	PK	V	28.11	3.11	0.00	117.88	N/A	N/A
2404	74.03	AV	V	28.11	3.11	0.00	105.25	N/A	N/A
2390	25.03	PK	V	28.08	3.10	0.00	56.21	74.00	17.79
2390	12.06	AV	V	28.08	3.10	0.00	43.24	54.00	10.76
4808	48.02	PK	V	32.92	4.31	35.48	49.77	74.00	24.23
4808	33.36	AV	V	32.92	4.31	35.48	35.11	54.00	18.89
7212	45.59	PK	V	35.75	5.46	35.97	50.83	74.00	23.17
7212	33.46	AV	V	35.75	5.46	35.97	38.70	54.00	15.30
3502	46.04	PK	V	31.30	3.67	35.04	45.97	74.00	28.03
3502	32.96	AV	V	31.30	3.67	35.04	32.89	54.00	21.11
Middle Channel: 2441.4 MHz									
2441.4	80.19	PK	H	28.18	3.11	0.00	111.48	N/A	N/A
2441.4	69.11	AV	H	28.18	3.11	0.00	100.40	N/A	N/A
2441.4	92.94	PK	V	28.18	3.11	0.00	124.23	N/A	N/A
2441.4	81.32	AV	V	28.18	3.11	0.00	112.61	N/A	N/A
4882.8	55.74	PK	V	33.07	4.40	35.54	57.67	74.00	16.33
4882.8	36.51	AV	V	33.07	4.40	35.54	38.44	54.00	15.56
7324.2	45.69	PK	V	36.04	5.53	35.98	51.28	74.00	22.72
7324.2	32.67	AV	V	36.04	5.53	35.98	38.26	54.00	15.74
3448	45.44	PK	V	31.18	3.62	35.07	45.17	74.00	28.83
3448	32.05	AV	V	31.18	3.62	35.07	31.78	54.00	22.22
4832	46.01	PK	V	32.96	4.34	35.50	47.81	74.00	26.19
4832	33.26	AV	V	32.96	4.34	35.50	35.06	54.00	18.94
High Channel: 2478.8 MHz									
2478.8	75.53	PK	H	28.26	3.10	0.00	106.89	N/A	N/A
2478.8	61.71	AV	H	28.26	3.10	0.00	93.07	N/A	N/A
2478.8	87.87	PK	V	28.26	3.10	0.00	119.23	N/A	N/A
2478.8	76.86	AV	V	28.26	3.10	0.00	108.22	N/A	N/A
2483.5	27.09	PK	V	28.27	3.10	0.00	58.46	74.00	15.54
2483.5	14.29	AV	V	28.27	3.10	0.00	45.66	54.00	8.34
4957.6	47.71	PK	V	33.22	4.42	35.60	49.75	74.00	24.25
4957.6	33.51	AV	V	33.22	4.42	35.60	35.55	54.00	18.45
7436.4	47.73	PK	V	36.33	5.60	35.98	53.68	74.00	20.32
7436.4	32.39	AV	V	36.33	5.60	35.98	38.34	54.00	15.66
3286	46.04	PK	V	30.79	3.54	35.16	45.21	74.00	28.79
3286	33.07	AV	V	30.79	3.54	35.16	32.24	54.00	21.76

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)					
Additional Channel: 2405.7 MHz									
2405.7	82.66	PK	H	28.11	3.11	0.00	113.88	N/A	N/A
2405.7	59.73	AV	H	28.11	3.11	0.00	90.95	N/A	N/A
2405.7	90.09	PK	V	28.11	3.11	0.00	121.31	N/A	N/A
2405.7	65.83	AV	V	28.11	3.11	0.00	97.05	N/A	N/A
2390	26.08	PK	V	28.08	3.10	0.00	57.26	74.00	16.74
2390	13.21	AV	V	28.08	3.10	0.00	44.39	54.00	9.61
Additional Channel: 2407.4 MHz									
2407.4	84.46	PK	H	28.11	3.11	0.00	115.68	N/A	N/A
2407.4	61.78	AV	H	28.11	3.11	0.00	93.00	N/A	N/A
2407.4	92.26	PK	V	28.11	3.11	0.00	123.48	N/A	N/A
2407.4	67.41	AV	V	28.11	3.11	0.00	98.63	N/A	N/A
2390	25.26	PK	V	28.08	3.10	0.00	56.44	74.00	17.56
2390	13.78	AV	V	28.08	3.10	0.00	44.96	54.00	9.04
Additional Channel: 2475.4 MHz									
2475.4	84.62	PK	H	28.25	3.10	0.00	115.97	N/A	N/A
2475.4	61.48	AV	H	28.25	3.10	0.00	92.83	N/A	N/A
2475.4	92.12	PK	V	28.25	3.10	0.00	123.47	N/A	N/A
2475.4	67.97	AV	V	28.25	3.10	0.00	99.32	N/A	N/A
2483.5	28.25	PK	V	28.27	3.10	0.00	59.62	74.00	14.38
2483.5	14.25	AV	V	28.27	3.10	0.00	45.62	54.00	8.38
Additional Channel: 2477.1 MHz									
2477.1	82.16	PK	H	28.25	3.10	0.00	113.51	N/A	N/A
2477.1	59.09	AV	H	28.25	3.10	0.00	90.44	N/A	N/A
2477.1	89.87	PK	V	28.25	3.10	0.00	121.22	N/A	N/A
2477.1	64.32	AV	V	28.25	3.10	0.00	95.67	N/A	N/A
2483.5	26.75	PK	V	28.27	3.10	0.00	58.12	74.00	15.88
2483.5	14.09	AV	V	28.27	3.10	0.00	45.46	54.00	8.54

FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
3. Add a correction factor to the display.
4. Set the power Meter to test Peak output power, record the result as peak power.
5. Set the power meter to test average output power, record the result as average power.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2016-11-03	2017-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2016-11-03	2017-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2016-11-03	2017-11-03
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-4	2016-09-10	2017-09-09
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **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:	25.7 °C
Relative Humidity:	61 %
ATM Pressure:	100.5 kPa

The testing was performed by Calvin Chen on 2017-07-18.

Test Mode: Transmitting

Frequency (MHz)	Conducted Output Power (dBm)		Limits (dBm)
	Peak	Average	
2404	19.78	8.22	27.09
2405.7	21.60	10.18	27.09
2407.4	24.90	13.15	27.09
2441.4	25.44	14.43	27.09
2475.4	25.71	14.34	27.09
2477.1	21.54	11.62	27.09
2478.8	20.28	11.62	27.09

Note: the antenna gain is 8.91dBi at 2.4GHz band, the power limit was reduced by 2.91dBc.

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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 was set 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 the RBW = 3 kHz, VBW = 10 kHz, Set the span to 1.5 times the DTS bandwidth.
4. Use the peak marker function to determine the maximum amplitude level.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2016-12-08	2017-12-08
Unknown	Coaxial Cable	0.1m	C-1	Each Time	/

* **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:	25.7 °C
Relative Humidity:	61 %
ATM Pressure:	100.5 kPa

The testing was performed by Calvin Chen on 2017-07-18.

Test Result: Compliance

Test Mode: Transmitting

Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm/3kHz)
2404	-7.16	5.09
2441.4	-1.48	5.09
2478.8	-6.73	5.09

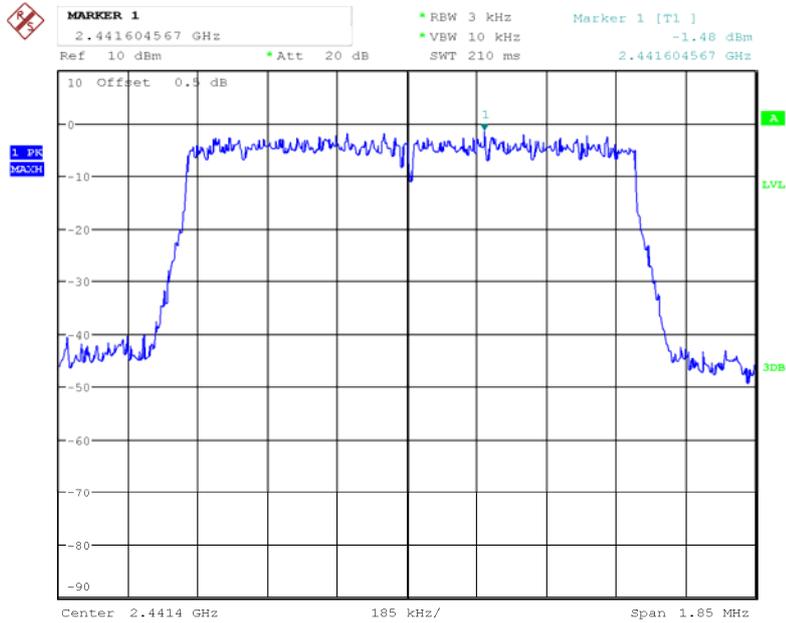
Note: the antenna gain is 8.91dBi at 2.4GHz band, the PSD limit was reduced by 2.91dBc.

Please refer to the following plots



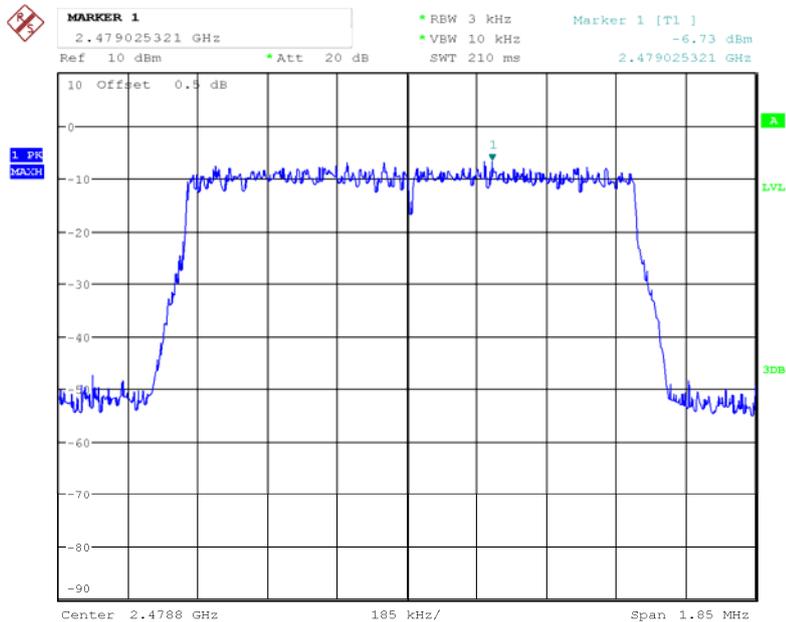
Date: 18.JUL.2017 14:09:17

Power Spectral Density, LB Middle Channel



Date: 18.JUL.2017 14:05:20

Power Spectral Density, LB High Channel



Date: 18.JUL.2017 14:04:15

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