

FCC PART 15.247

TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

17th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave,
Nanshan District, Shenzhen, China

FCC ID: SS3-GL6581410

Report Type: Original Report	Product Type: Remote Controller
Test Engineer: Allen Qiao <i>Allen Qiao</i>	
Report Number: RDG140930016-00A	
Report Date: 2014-10-24	
Reviewed By: Sula Huang RF Engineer <i>Sula Huang</i>	
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	

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SZ DJI TECHNOLOGY CO., LTD*'s product, model number: *GL658A (FCC ID: SS3-GL6581410)* (the "EUT") in this report is a Remote Controller, Called *C1* by manufacturer, which was measured approximately: 182.0 mm (L) x 166.9 mm (W) x 179.2 mm (H), rated input voltage: DC 7.4V from rechargeable Li-ion battery.

** All measurement and test data in this report was gathered from production sample serial number: 140930016 (Assigned by BACL.Dongguan). The EUT was received on 2014-10-10.*

Objective

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

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

Related Submittal(s)/Grant(s)

FCC Part15C DXX submissions with FCC ID: *SS3-GL6581410*

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. (Dongguan). 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. (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 Communications 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

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer. The engineering mode was configured the system transmitting with maximum power by software.

30 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2404	15	2436
1	2406	...	...
...	...	...	...
...	...	...	...
..	...	28	2460
14	2434	29	2462

EUT was tested with channel 2404MHz, 2434MHz and 2462MHz.

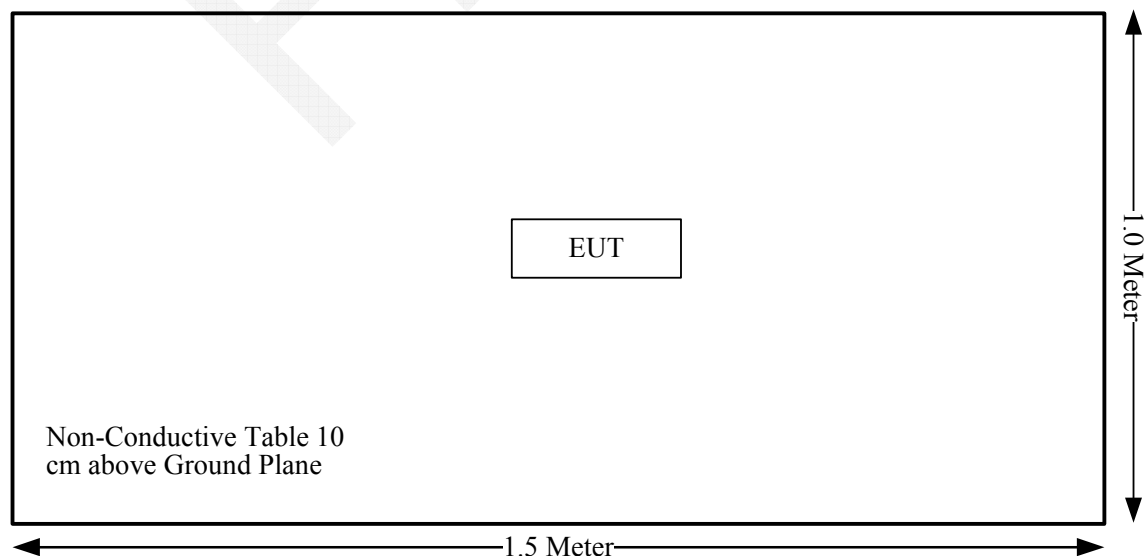
EUT Exercise Software

The software “DJI WM610” was used in the test, which was provided by manufacturer.

Equipment Modifications

No modification was made to the EUT.

Block Diagram of Test Setup



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	Not Applicable
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

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

Applicable Standard

According to §15.247(i) and §1.1310, 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 KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The maximum conducted output power= 14.17 dBm(26.12 mW) at 2404MHz
 $[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 $= 26.12/6 \cdot (\sqrt{2.404}) = 6.75 < 7.5$ for hands use.

The EUT meet SAR test exclusion at minimum distance 6mm, the worse case in use condition is the antenna folded, the distance between the antenna and finger is more than 6mm(Please refer to the external photo for detail), so the SAR evaluation is not necessary.

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.
- 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 two integral antennas arrangement, antenna 0 for transmitting& receiving, and another for receiving only, both antenna gain are 3.5 dBi, fulfill the requirement of this section. 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;

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_{cisp} of Table 2, 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_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, 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

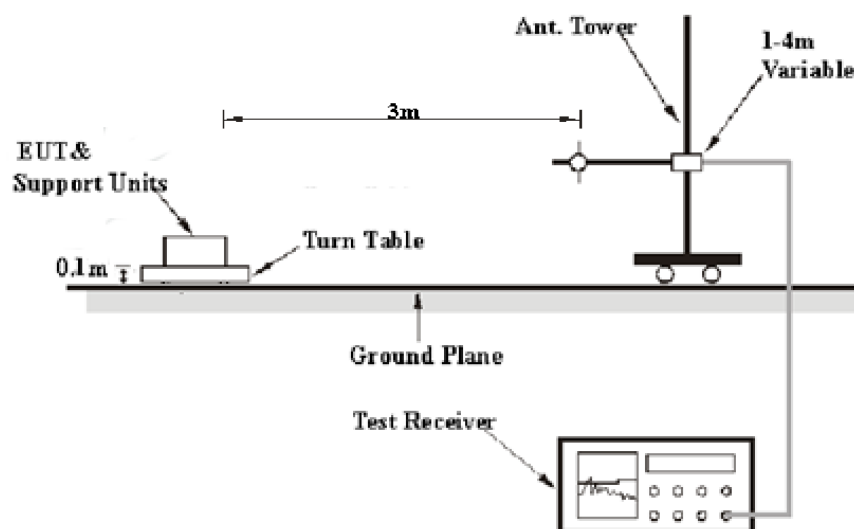
6G~18GHz: 5.23 dB

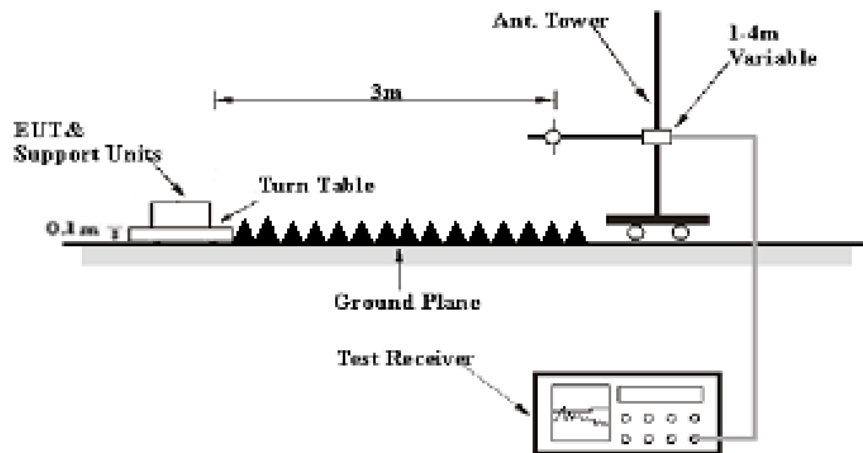
Table 2 – Values of U_{cisp}

Measurement	U_{cisp}
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 1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters 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.

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:

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.

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. otherwise pulse signal, the average value was Calculated based on Duty Cycle Correction Factor.

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	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 Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	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 recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Section 15.205, 15.209 and 15.247, with the worst margin reading of:

4.02 dB at 519.85 MHz in the Vertical polarization

Test Data

Environmental Conditions

Temperature:	23.2 °C
Relative Humidity:	55 %
ATM Pressure:	101.2 kPa

** The testing was performed by Allen Qiao on 2014-10-17.*

Test Mode: Transmitting

Measured Results

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2404 MHz									
2404	81.14	PK	H	25.65	4.42	0.00	111.21	N/A	N/A
2404	89	PK	V	25.65	4.42	0.00	119.07	N/A	N/A
2390	36.72	PK	V	25.61	4.39	0.00	66.72	74.00	7.28
2390	13.42	AV	V	25.61	4.39	0.00	43.42	54.00	10.58
4808	55.35	PK	V	30.6	5.99	27.26	64.68	74.00	9.32
7212	38.97	PK	V	34.11	7.45	26.31	54.22	74.00	19.78
9616	31.07	PK	V	35.98	8.80	26.19	49.66	74.00	24.34
2125.12	35.1	PK	H	24.93	4.03	27.21	36.85	74.00	37.15
2125.12	23.24	AV	H	24.93	4.03	27.21	24.99	54.00	29.01
519.85	42.9	QP	V	18.16	2.79	22.07	41.78	46.00	4.22
Middle Channel: 2434 MHz									
2434	81.56	PK	H	25.73	4.41	0.00	111.70	N/A	N/A
2434	89.28	PK	V	25.73	4.41	0.00	119.42	N/A	N/A
4868	55.06	PK	V	30.76	6.09	27.26	64.65	74.00	9.35
7302	38.67	PK	V	34.32	7.50	26.49	54.00	74.00	20.00
9736	31.25	PK	V	36.27	8.83	25.73	50.62	74.00	23.38
2125.12	34.86	PK	H	24.93	4.03	27.21	36.61	74.00	37.39
2125.12	23.11	AV	H	24.93	4.03	27.21	24.86	54.00	29.14
1356.98	34.82	PK	H	23.23	3.04	27.16	33.93	74.00	40.07
1356.98	23.05	AV	H	23.23	3.04	27.16	22.16	54.00	31.84
519.85	43.1	QP	V	18.16	2.79	22.07	41.98	46.00	4.02
High Channel: 2462 MHz									
2462	81.95	PK	H	25.80	4.43	0.00	112.18	N/A	N/A
2462	90.88	PK	V	25.80	4.43	0.00	121.11	N/A	N/A
2483.5	26.61	PK	V	25.86	4.49	0.00	56.96	74.00	17.04
2483.5	13.99	AV	V	25.86	4.49	0.00	44.34	54.00	9.66
4924	55.67	PK	V	30.9	5.97	27.27	65.27	74.00	8.73
7386	38.68	PK	V	34.53	7.55	26.66	54.10	74.00	19.90
9848	31.32	PK	V	36.54	8.85	25.49	51.22	74.00	22.78
2125.12	34.95	PK	H	24.93	4.03	27.21	36.70	74.00	37.30
2125.12	23.37	AV	H	24.93	4.03	27.21	25.12	54.00	28.88
519.85	42.6	QP	V	18.16	2.79	22.07	41.48	46.00	4.52

Calculated average Results

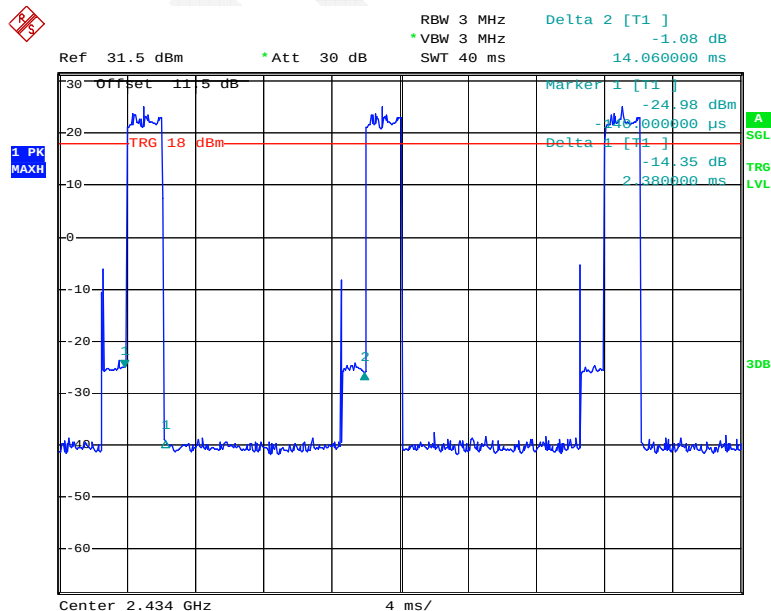
Frequency	Peak Measurement @ 3m	Polar	Duty Cycle Correction Factor	Average Amp.	Limit	Margin
MHz	dBμV/m	H/V	dB	dBμV/m	dBμV/m	dB
Low Channel: 2404 MHz						
2404	111.21	H	-15.43	95.78	N/A	N/A
2404	119.07	V	-15.43	103.64	N/A	N/A
4808	64.68	V	-15.43	49.25	54	4.75
7212	54.22	V	-15.43	38.79	54	15.21
9616	49.66	V	-15.43	34.23	54	19.77
Middle Channel: 2434 MHz						
2434	111.7	H	-15.43	96.27	N/A	N/A
2434	119.42	V	-15.43	103.99	N/A	N/A
4868	64.65	V	-15.43	49.22	54	4.78
7302	54.00	V	-15.43	38.57	54	15.43
9736	50.62	V	-15.43	35.19	54	18.81
High Channel: 2462 MHz						
2462	112.18	H	-15.43	96.75	N/A	N/A
2462	121.11	V	-15.43	105.68	N/A	N/A
4924	65.27	V	-15.43	49.84	54	4.16
7386	54.1	V	-15.43	38.67	54	15.33
9848	51.22	V	-15.43	35.79	54	18.21

Calculate Average value based on Duty Cycle Correction Factor:

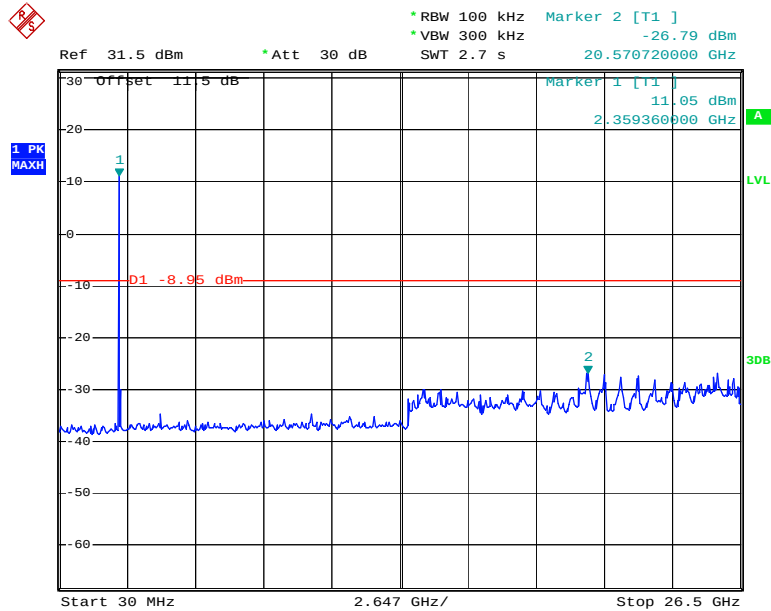
Duty cycle = $T_{ON}/T_{on+Off} = (2.38/14.06)\text{ms} = 16.9\%$

Duty cycle correction factor = $20 \cdot \log(\text{duty cycle}) = 20 \cdot \log(16.9\%) = -15.43 \text{ dB}$

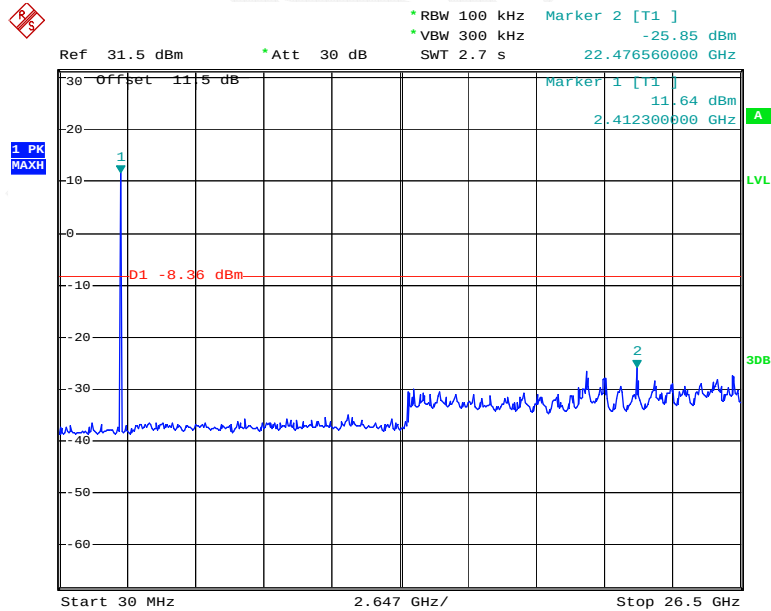
Duty cycle



Date: 17.OCT.2014 16:38:17

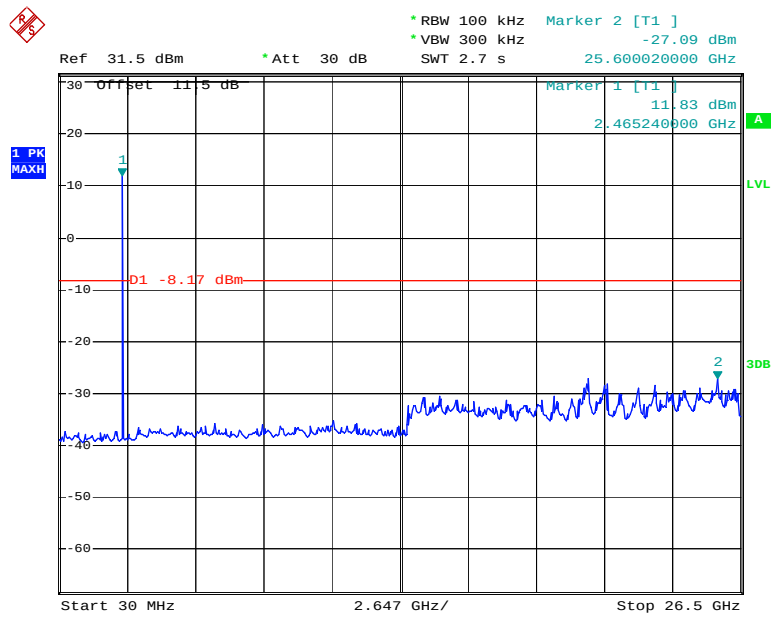
Conducted Spurious Emissions at Antenna Port**Low Channel**

Date: 17.OCT.2014 14:38:15

Middle Channel

Date: 17.OCT.2014 14:35:52

High Channel



Date: 17.OCT.2014 14:41:27

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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:	28 °C
Relative Humidity:	44 %
ATM Pressure:	101.2 kPa

* The testing was performed by Allen Qiao on 2014-10-17.

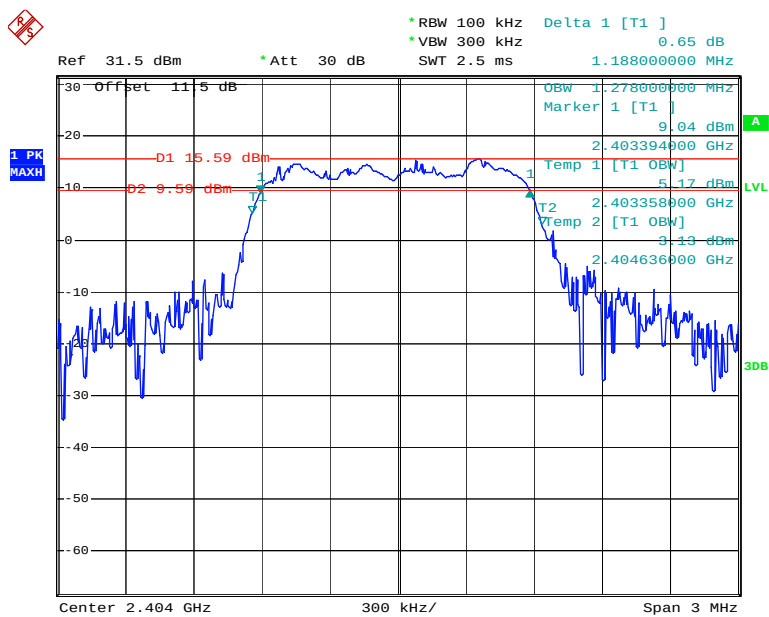
Test Result: Compliant.

Please refer to the following tables and plots.

Test Mode: Transmitting

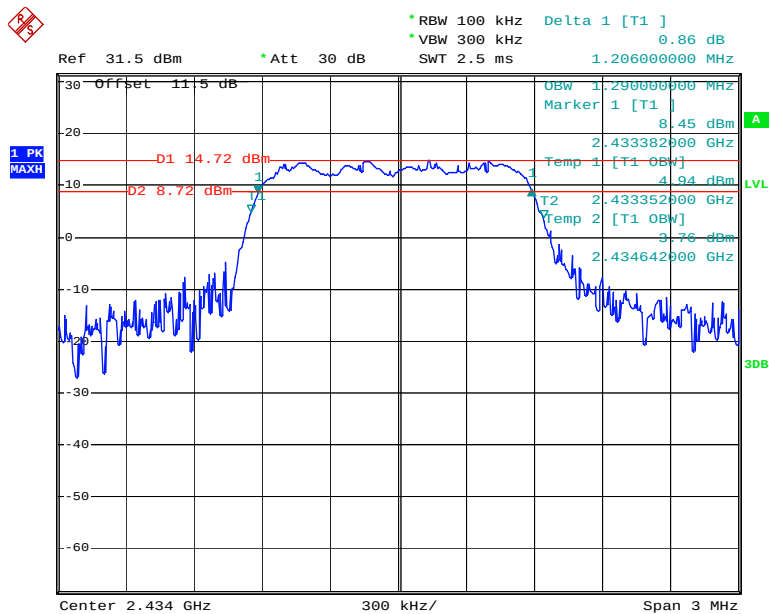
Channel	Frequency	6 dB Bandwidth	Limit
	(MHz)	(MHz)	(kHz)
Low	2404	1.188	≥ 500
Middle	2434	1.206	≥ 500
High	2462	1.212	≥ 500

Low Channel



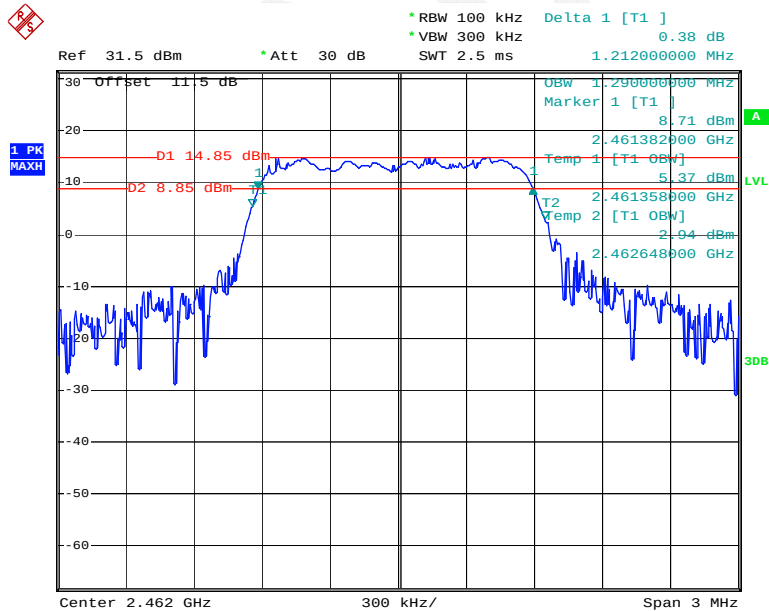
Date: 17.OCT.2014 14:01:22

Middle Channel



Date: 17.OCT.2014 14:03:55

High Channel



Date: 17.OCT.2014 14:05:59

FCC §15.247(b) (3) - MAXIMUM PEAK 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

According to KDB 558074 D01 DTS Meas Guidance v03r02

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq 3 \times$ RBW.
- Set span $\geq 3 \times$ RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2013-12-12	2014-12-12
Agilent	Wideband Power Sensor	N1921A	MY54170013	2013-12-12	2014-12-12
Agilent	P-Series Power Meter	N1912A	MY5000448	2013-12-12	2014-12-12

* **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:	28 °C
Relative Humidity:	44 %
ATM Pressure:	101.2 kPa

* The testing was performed by Allen Qiao on 2014-10-17.

Test Mode: Transmitting

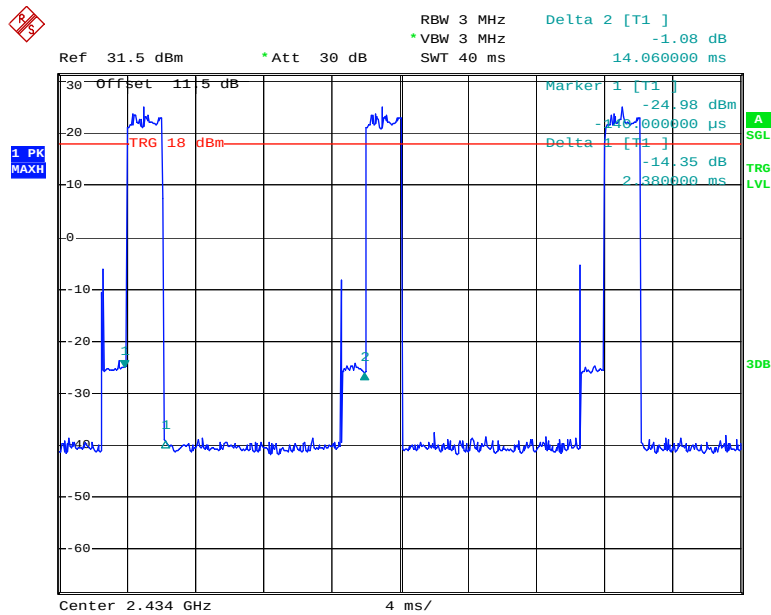
Channel	Frequency	Max Conducted Peak Output Power	Max Conducted Average Output Power	Limit	Result
	(MHz)	(dBm)	(dBm)	(dBm)	
Low	2404	25.70	14.17	30	PASS
Middle	2434	25.55	14.02	30	PASS
High	2462	25.61	14.08	30	PASS

Note: the conducted average output power tested according to section 9.2.3.1 of KDB 558074 D01 DTS Meas Guidance v03r02, please refer to the following table and plots,

Channel	Frequency	Raw Data	Duty Cycle Factor	Max Conducted Average Output Power	Limit	Result
	(MHz)	(dBm)	dB	(dBm)	(dBm)	
Low	2404	6.46	7.71	14.17	30	PASS
Middle	2434	6.31	7.71	14.02	30	PASS
High	2462	6.37	7.71	14.08	30	PASS

Duty cycle factor = $10 \cdot \log(14.06/2.38) = 7.71$

Duty cycle



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FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**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 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**

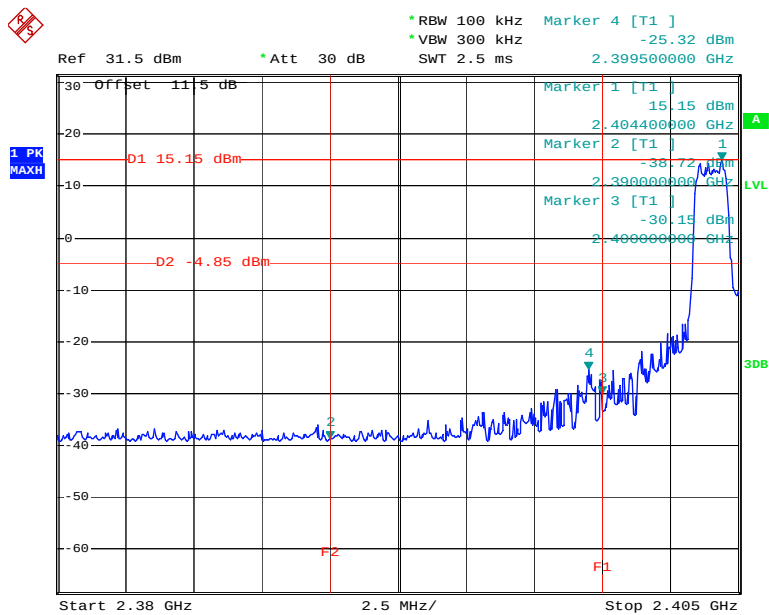
Temperature:	28 °C
Relative Humidity:	44 %
ATM Pressure:	101.2 kPa

* The testing was performed by Allen Qiao on 2014-10-17.

Test Result: *Compliant.*

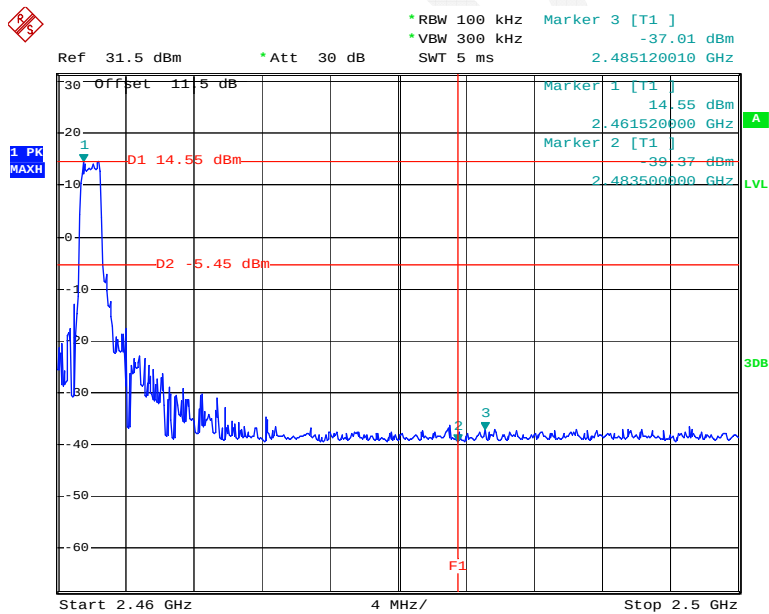
Please refer to following plots.

Band Edge, Left Side



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Band Edge, Right Side



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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

According to KDB 558074 D01 DTS Meas Guidance v03r02

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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:	28 °C
Relative Humidity:	44 %
ATM Pressure:	101.2 kPa

* The testing was performed by Allen Qiao on 2014-10-17.

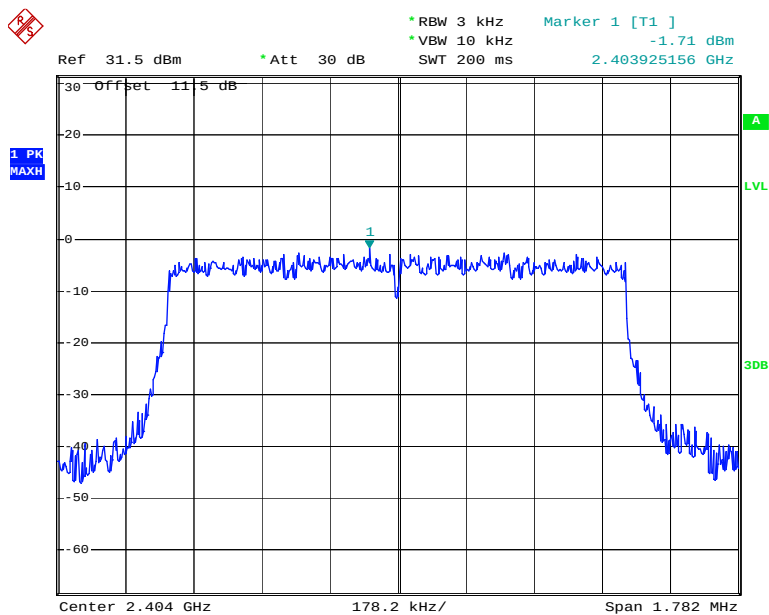
Test Mode: Transmitting

Test Result: Pass

Channel	Frequency	PSD	Limit	Result
	MHz	(dBm/3kHz)	(dBm/3kHz)	
Low	2404	-1.71	≤ 8	PASS
Middle	2434	-1.61	≤ 8	PASS
High	2462	-2.23	≤ 8	PASS

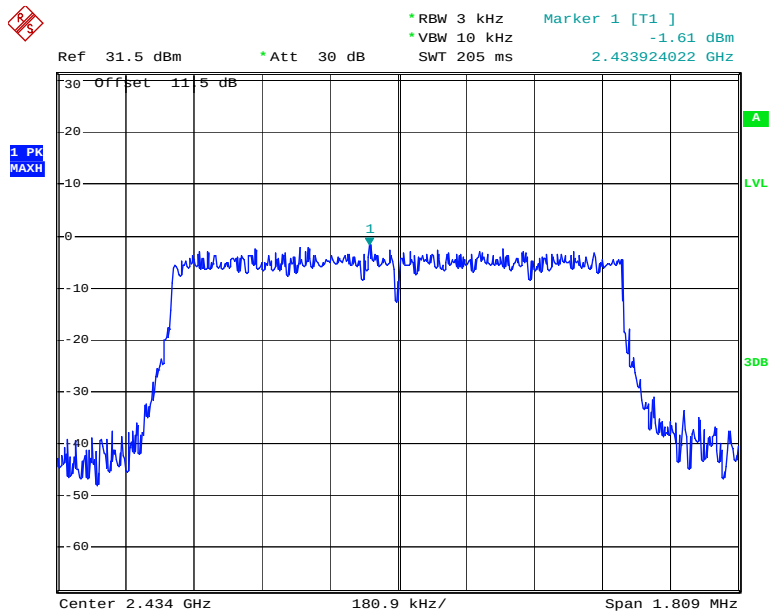
Please refer to the following plots

Power Spectral Density, Low Channel



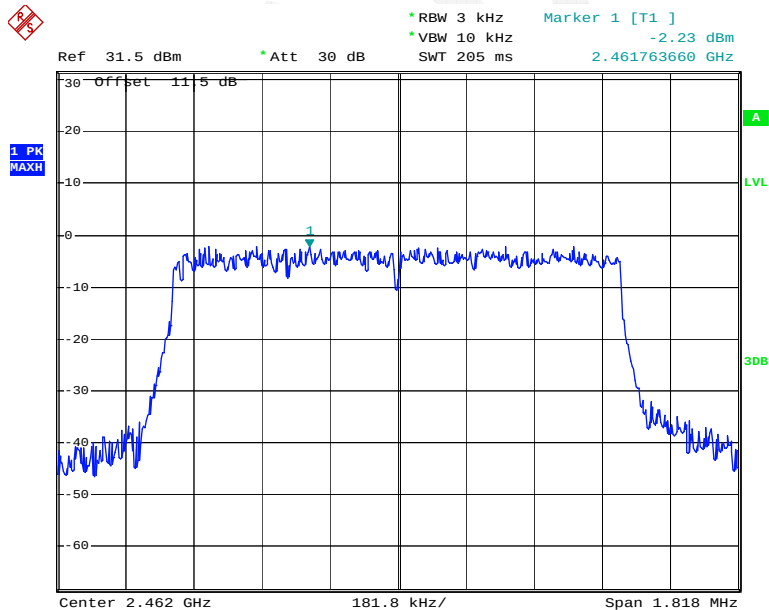
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Power Spectral Density, Middle Channel



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Power Spectral Density, High Channel



Date: 17.OCT.2014 14:21:38

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