



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15.247

RSS-GEN, ISSUE 5, MARCH 2019 AMENDMENT 1

RSS-247, ISSUE 2, FEBRUARY 2017

TEST REPORT

For

SZ DJI Osmo Technology Co.,Ltd.

2F, Building 3, Binhai Mingzhu Industrial Park, No. 291 Louming Road, Xinhua Street, Guangming District,
Shenzhen, China

FCC ID: 2ANDR-OT2132010
IC: 23060-OT2132010


Report Type: Original Report	Product Name: DJI Wireless Microphone Transmitter
Report Number:	RDG200720023-00B
Report Date:	2020-08-11
Reviewed By:	Ivan Cao  Assistant Manager
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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
MEASUREMENT UNCERTAINTY.....	5
TEST FACILITY	5
DECLARATIONS.....	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	8
SUPPORT EQUIPMENT LIST AND DETAILS	8
SUPPORT CABLE LIST AND DETAILS	8
BLOCK DIAGRAM OF TEST SETUP	8
SUMMARY OF TEST RESULTS.....	9
FCC §15.247 (i) & §1.1310 & §2.1093, RSS-102 CLAUSE 4- RF Exposure.....	10
APPLICABLE STANDARD	10
FCC §15.203& RSS-GEN CLAUSE 6.8 - ANTENNA REQUIREMENT.....	11
APPLICABLE STANDARD	11
ANTENNA INFORMATION AND CONNECTOR CONSTRUCTION.....	12
FCC §15.209, §15.205, §15.247(d) & RSS-247 CLAUSE 5.5, RSS-GEN CLAUSE 8.10- SPURIOUS EMISSIONS.....	13
APPLICABLE STANDARD	13
EUT SETUP.....	13
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	14
TEST PROCEDURE	14
CORRECTED AMPLITUDE & MARGIN CALCULATION	14
TEST EQUIPMENT LIST AND DETAILS.....	15
TEST DATA	15
FCC §15.247(a) (2) & RSS-247 CLAUSE 5.2 a) &RSS-GEN CLAUSE 6.7-6 dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH.....	24
APPLICABLE STANDARD	24
TEST PROCEDURE	25
TEST EQUIPMENT LIST AND DETAILS.....	25
TEST DATA	26
FCC §15.247(b) (3)& RSS-247 CLAUSE 5.4 d) - MAXIMUM PEAK CONDUCTED OUTPUT POWER.....	33
APPLICABLE STANDARD	33
TEST PROCEDURE	33
TEST EQUIPMENT LIST AND DETAILS.....	33
TEST DATA	34
FCC §15.247(d)& RSS-247 CLAUSE 5.5 – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	35

APPLICABLE STANDARD	35
TEST PROCEDURE	35
TEST EQUIPMENT LIST AND DETAILS.....	35
TEST DATA	36
FCC §15.247(e) & RSS-247 CLAUSE 5.2 b - POWER SPECTRAL DENSITY	41
APPLICABLE STANDARD	41
TEST PROCEDURE	41
TEST EQUIPMENT LIST AND DETAILS.....	41
TEST DATA	42

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	DJI Wireless Microphone Transmitter
EUT Model:	OT-213
Operation Frequency:	2402-2480MHz
Maximum Peak Output Power (Conducted):	10.01 dBm
Modulation Type:	GFSK
Antenna Gain	3.0 dBi
Rated Input Voltage:	DC 3.85V from battery or DC 5V from USB port
Serial Number:	RDG200720023-RF-S1
EUT Received Date:	2020.07.25
EUT Received Status:	Good

Objective

This report is prepared on behalf of *SZ DJI Osmo Technology Co.,Ltd.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules and RSS-247, Issue 2, February 2017, RSS-Gen, Issue 5, March 2019 Amendment 1 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine the EUT compliance with FCC Rules Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules and RSS-247, Issue 2, February 2017, RSS-Gen, Issue 5, March 2019 Amendment 1 March 2019 Amendment 1 of the Innovation, Science and Economic Development Canada.

Related Submittal(s)/Grant(s)

Part of System submissions with FCC ID: 2ANDR-OT2122010, IC: 23060-OT2122010

Test Methodology

All measurements detailed in this test report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices" and KDB 558074 D01 15.247 Meas Guidance v05r02. And RSS-247, Issue 2, February 2017, RSS-Gen, Issue 5, March 2019 Amendment 1 of the Innovation, Science and Economic Development Canada.

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: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	±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)

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “△”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

The device supports GFSK 1Mbps and 2Mbps modes, and employs 40 channels as below:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404
...
...
..	...	38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

The device have two antenna, only SISO mode was supported by the system.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

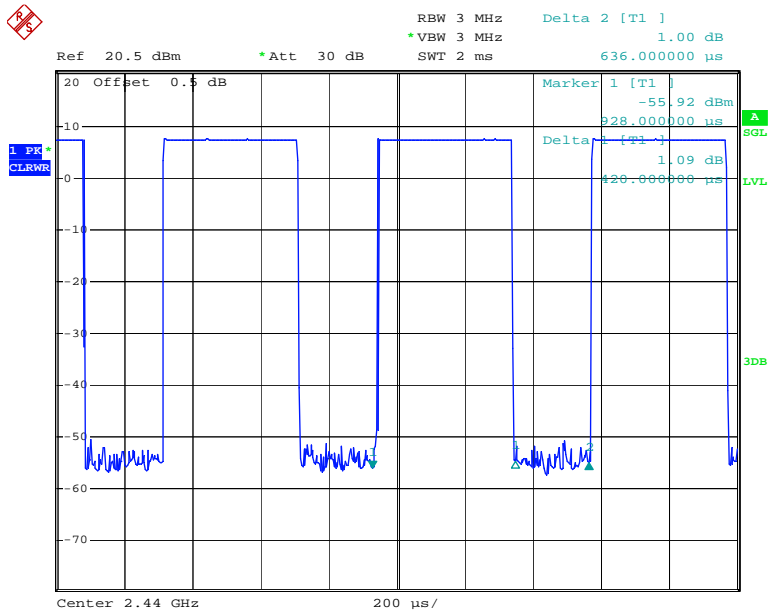
The 'Direct Test Mode TOOL' was used during test, which was provided by manufacturer. The maximum power level was configured by the software as below table:

Test mode	Test Frequency (MHz)	Power level Setting
1Mbps	2402	0
	2440	0
	2480	0
2Mbps	2402	0
	2440	0
	2480	0

The duty cycle as below:

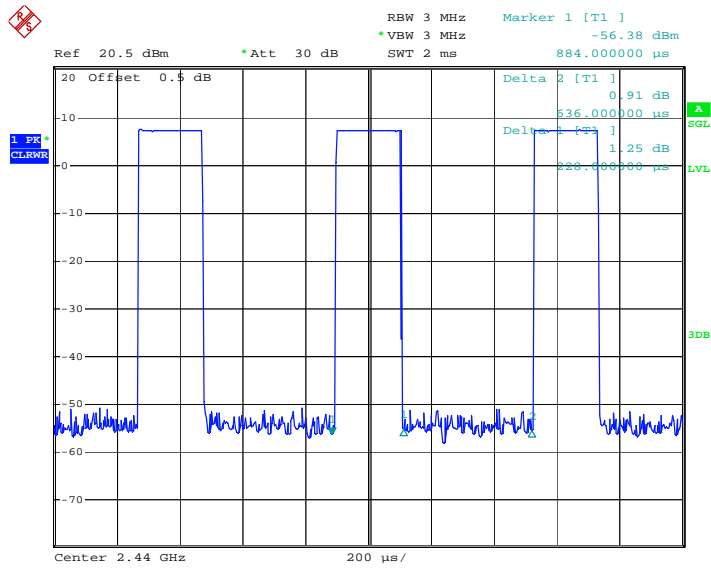
Test Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
1Mbps	0.420	0.636	66.04
2Mbps	0.228	0.636	35.85

1Mbps



Date: 29.JUL.2020 15:11:14

2Mbps



Date: 29.JUL.2020 15:11:52

Equipment Modifications

No modification was made to the EUT.

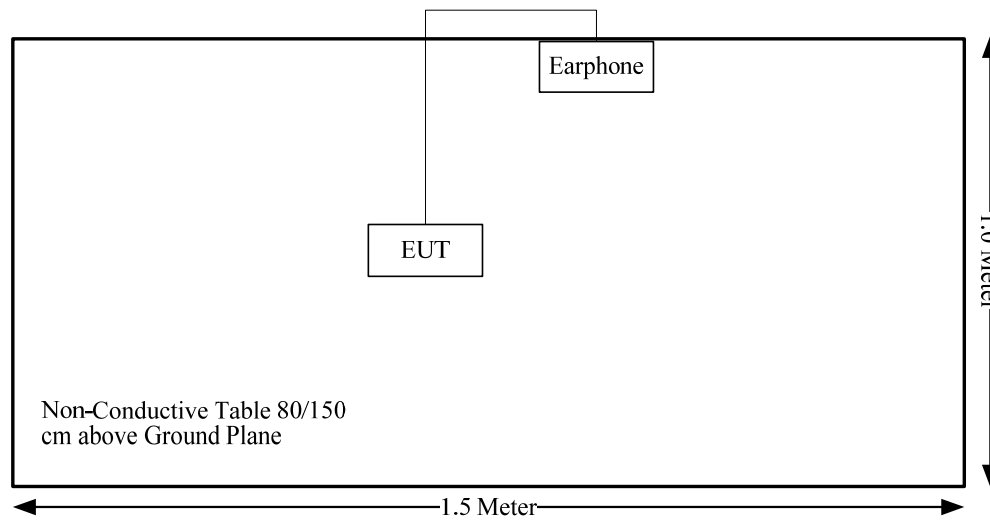
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Huawei	Earphone	1m301	5521427

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Earphone Cable	No	No	0.8	Earphone	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093; RSS-102 Clause 4	RF Exposure	Compliance
FCC§15.203, RSS-Gen Clause 6.8	Antenna Requirement	Compliance
FCC§15.207 (a), RSS-Gen Clause 8.8	AC Line Conducted Emissions	Not Applicable
FCC§15.205, §15.209, FCC §15.247(d), RSS-247 Clause 5.5 RSS-Gen Clause 8.10	Spurious Emissions	Compliance
FCC§15.247 (a)(2), RSS-247 Clause 5.2 a) RSS-Gen Clause 6.7	6 dB Bandwidth	Compliance
FCC§15.247(b)(3), RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliance
FCC§15.247(d), RSS-247 Clause 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC§15.247(e), RSS-247 Clause 5.2 b)	Power Spectral Density	Compliance

Not Applicable: the device was powered by battery when operating.

FCC §15.247 (i) & §1.1310 & §2.1093, RSS-102 CLAUSE 4- 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 RSS-102 Clause 4 Table 3, SAR limits for device used by the general public.

Body Region	Average SAR (W/Kg)	Averaging Time (minutes)	Mass Average (g)
Whole Body	0.08	6	Whole Body
Localized Head, Neck and Trunk	1.6	6	1
Localized Limbs	4	6	10

Test Result

Compliance, Please refer to the SAR report: RDG200720023-20.

FCC §15.203& RSS-GEN CLAUSE 6.8 - ANTENNA REQUIREMENT

Applicable Standard

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 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.

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Information And Connector Construction

The EUT has two internal antennas arrangement, fulfill the requirement of this section. Please refer to below information and the EUT photos:

Antenna Chain	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range
0	FPC	50	3.0 dBi/2.4~2.5GHz
1	FPC	50	3.0 dBi/2.4~2.5GHz

Result: Compliance.

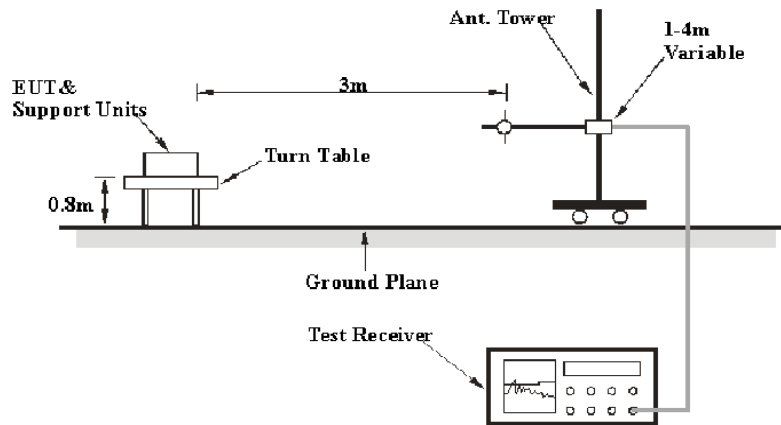
FCC §15.209, §15.205, §15.247(a) & RSS-247 CLAUSE 5.5, RSS-GEN CLAUSE 8.10- SPURIOUS EMISSIONS

Applicable Standard

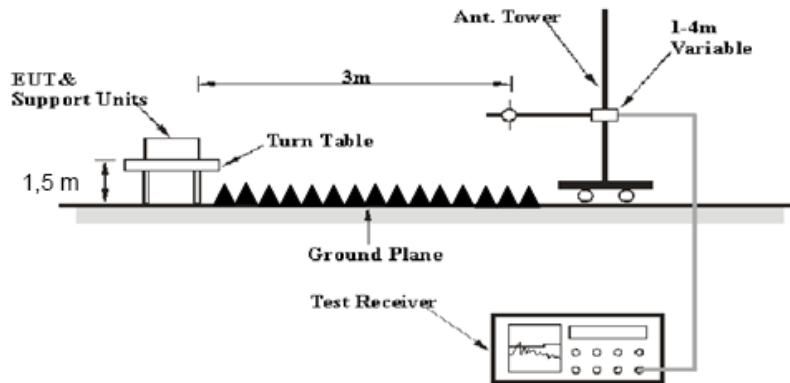
FCC §15.247 (d); §15.209; §15.205, RSS-247 §5.5, RSS-GEN §8.10.

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site A for the range 30MHz to 1GHz and the 3 meters chamber B test site for above 1GHz, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247, the RSS-247 §5.5, RSS-Gen §8.10 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:

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

1GHz- 26.5GHz:

Measurement	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

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

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
Radiation Emission Below 1GHz					
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Radiation Emission Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2017-12-06	2020-12-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2020-05-09	2021-05-09
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2020-06-27	2021-06-27
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2019-09-05	2020-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2020-06-16	2021-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2020-06-16	2021-06-16

* **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**

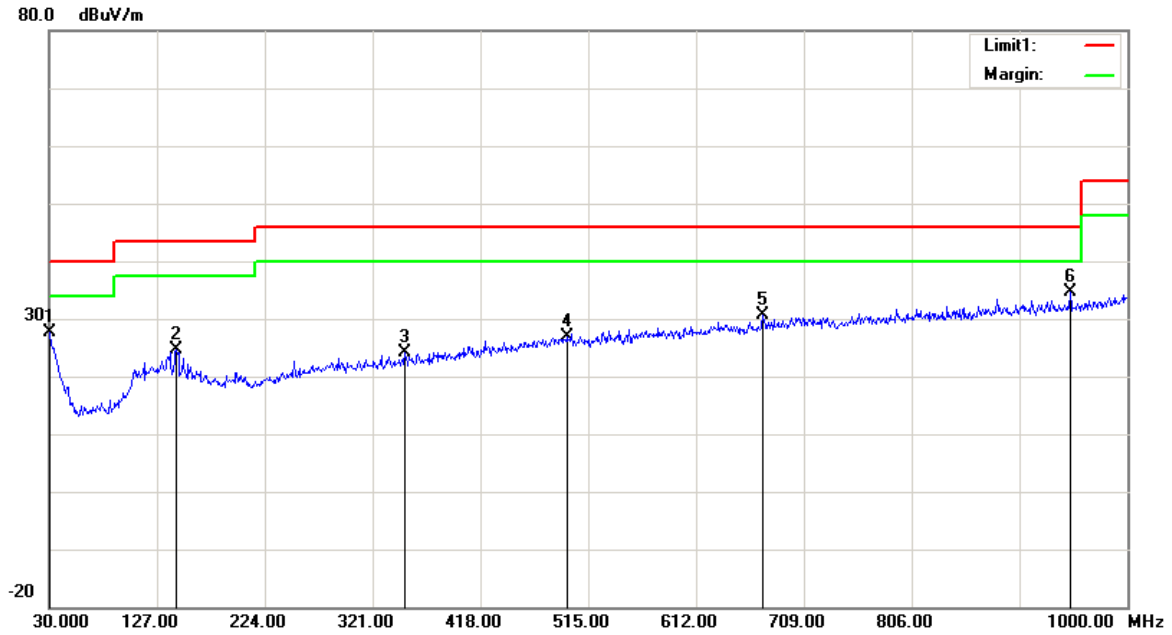
Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	27.8°C	27.5°C
Relative Humidity:	43%	41%
ATM Pressure:	100.8 kPa	100.8 kPa
Tester:	Jaker Chen	Bond Qin
Test Date:	2020-07-29	2020-07-29

Test Mode: Transmitting

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

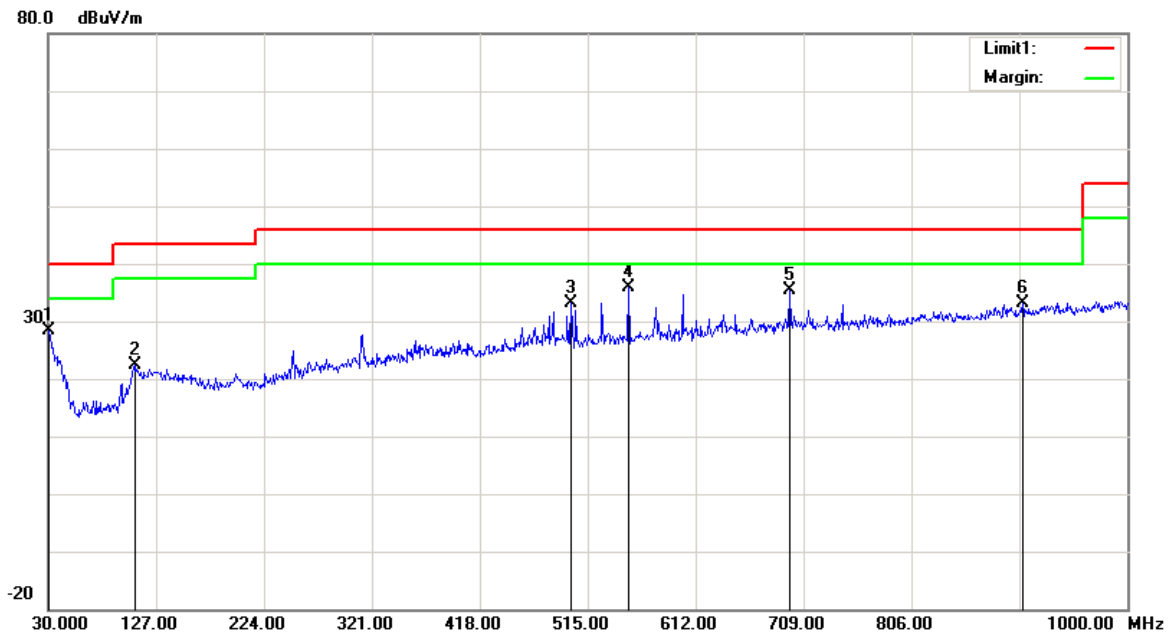
1) 30MHz-1GHz(1Mbps High channel was the worst)

Horizontal:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.0000	26.12	peak	1.46	27.58	40.00	12.42
144.4600	30.71	peak	-6.15	24.56	43.50	18.94
350.1000	27.16	peak	-3.03	24.13	46.00	21.87
495.6000	27.18	peak	-0.39	26.79	46.00	19.21
672.1400	28.59	peak	1.96	30.55	46.00	15.45
948.5900	34.62	peak	-0.10	34.52	46.00	11.48

Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.0000	26.83	peak	1.46	28.29	40.00	11.71
108.5700	29.20	peak	-6.86	22.34	43.50	21.16
499.4800	33.61	peak	-0.39	33.22	46.00	12.78
551.8600	35.68	peak	0.14	35.82	46.00	10.18
696.3900	32.84	peak	2.43	35.27	46.00	10.73
905.9100	33.78	peak	-0.60	33.18	46.00	12.82

**2) 1-25GHz:
Chain 0
1Mbps:**

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	72.70	PK	H	28.10	1.80	0.00	102.60	N/A	N/A
2402.00	72.42	AV	H	28.10	1.80	0.00	102.32	N/A	N/A
2402.00	68.56	PK	V	28.10	1.80	0.00	98.46	N/A	N/A
2402.00	68.17	AV	V	28.10	1.80	0.00	98.07	N/A	N/A
2390.00	26.45	PK	H	28.08	1.80	0.00	56.33	74.00	17.67
2390.00	14.97	AV	H	28.08	1.80	0.00	44.85	54.00	9.15
4804.00	37.22	PK	H	32.91	3.17	25.60	47.70	74.00	26.30
4804.00	28.95	AV	H	32.91	3.17	25.60	39.43	54.00	14.57
7206.00	35.85	PK	H	35.74	4.82	25.60	50.81	74.00	23.19
7206.00	24.76	AV	H	35.74	4.82	25.60	39.72	54.00	14.28
Middle Channel: 2440 MHz									
2440.00	76.57	PK	H	28.18	1.82	0.00	106.57	N/A	N/A
2440.00	76.19	AV	H	28.18	1.82	0.00	106.19	N/A	N/A
2440.00	72.24	PK	V	28.18	1.82	0.00	102.24	N/A	N/A
2440.00	71.86	AV	V	28.18	1.82	0.00	101.86	N/A	N/A
4880.00	36.65	PK	H	33.06	3.27	25.66	47.32	74.00	26.68
4880.00	26.33	AV	H	33.06	3.27	25.66	37.00	54.00	17.00
7320.00	36.01	PK	H	36.03	4.62	25.72	50.94	74.00	23.06
7320.00	24.86	AV	H	36.03	4.62	25.72	39.79	54.00	14.21
High Channel: 2480 MHz									
2480.00	74.01	PK	H	28.26	1.84	0.00	104.11	N/A	N/A
2480.00	73.68	AV	H	28.26	1.84	0.00	103.78	N/A	N/A
2480.00	69.93	PK	V	28.26	1.84	0.00	100.03	N/A	N/A
2480.00	69.65	AV	V	28.26	1.84	0.00	99.75	N/A	N/A
2483.50	38.54	PK	H	28.27	1.84	0.00	68.65	74.00	5.35
2483.50	17.69	AV	H	28.27	1.84	0.00	47.80	54.00	6.20
4960.00	35.91	PK	H	33.22	3.23	25.63	46.73	74.00	27.27
4960.00	24.67	AV	H	33.22	3.23	25.63	35.49	54.00	18.51
7440.00	35.61	PK	H	36.34	4.41	25.85	50.51	74.00	23.49
7440.00	24.33	AV	H	36.34	4.41	25.85	39.23	54.00	14.77

2Mbps:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	73.24	PK	H	28.10	1.80	0.00	103.14	N/A	N/A
2402.00	72.27	AV	H	28.10	1.80	0.00	102.17	N/A	N/A
2402.00	70.37	PK	V	28.10	1.80	0.00	100.27	N/A	N/A
2402.00	69.21	AV	V	28.10	1.80	0.00	99.11	N/A	N/A
2390.00	26.49	PK	H	28.08	1.80	0.00	56.37	74.00	17.63
2390.00	16.86	AV	H	28.08	1.80	0.00	46.74	54.00	7.26
4804.00	36.84	PK	H	32.91	3.17	25.60	47.32	74.00	26.68
4804.00	26.66	AV	H	32.91	3.17	25.60	37.14	54.00	16.86
7206.00	35.92	PK	H	35.74	4.82	25.60	50.88	74.00	23.12
7206.00	25.75	AV	H	35.74	4.82	25.60	40.71	54.00	13.29
Middle Channel: 2440 MHz									
2440.00	77.19	PK	H	28.18	1.82	0.00	107.19	N/A	N/A
2440.00	76.12	AV	H	28.18	1.82	0.00	106.12	N/A	N/A
2440.00	74.21	PK	V	28.18	1.82	0.00	104.21	N/A	N/A
2440.00	73.15	AV	V	28.18	1.82	0.00	103.15	N/A	N/A
4880.00	36.02	PK	H	33.06	3.27	25.66	46.69	74.00	27.31
4880.00	25.87	AV	H	33.06	3.27	25.66	36.54	54.00	17.46
7320.00	35.58	PK	H	36.03	4.62	25.72	50.51	74.00	23.49
7320.00	25.21	AV	H	36.03	4.62	25.72	40.14	54.00	13.86
High Channel: 2480 MHz									
2480.00	74.68	PK	H	28.26	1.84	0.00	104.78	N/A	N/A
2480.00	73.52	AV	H	28.26	1.84	0.00	103.62	N/A	N/A
2480.00	71.55	PK	V	28.26	1.84	0.00	101.65	N/A	N/A
2480.00	70.49	AV	V	28.26	1.84	0.00	100.59	N/A	N/A
2483.50	39.81	PK	H	28.27	1.84	0.00	69.92	74.00	4.08
2483.50	23.17	AV	H	28.27	1.84	0.00	53.28	54.00	0.72
4960.00	36.45	PK	H	33.22	3.23	25.63	47.27	74.00	26.73
4960.00	26.18	AV	H	33.22	3.23	25.63	37.00	54.00	17.00
7440.00	36.04	PK	H	36.34	4.41	25.85	50.94	74.00	23.06
7440.00	25.76	AV	H	36.34	4.41	25.85	40.66	54.00	13.34

**Chain 1
1Mbps:**

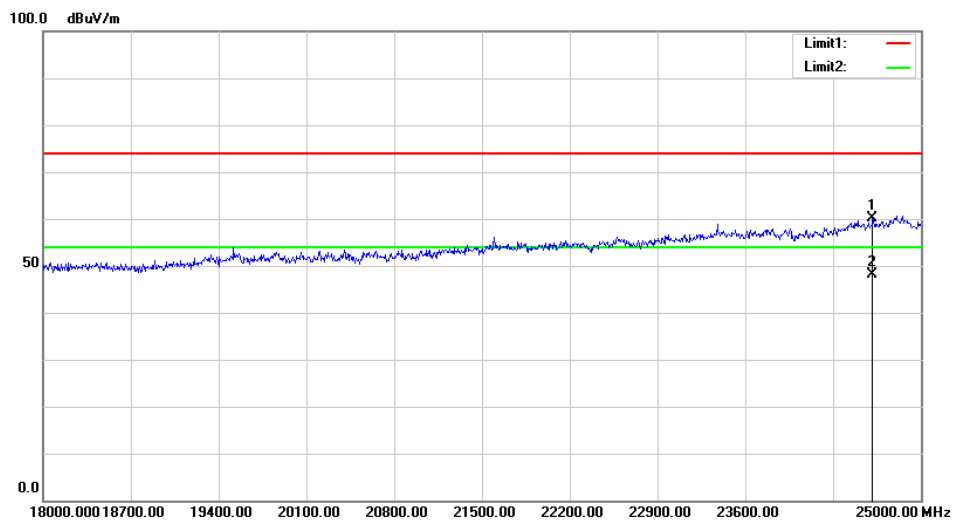
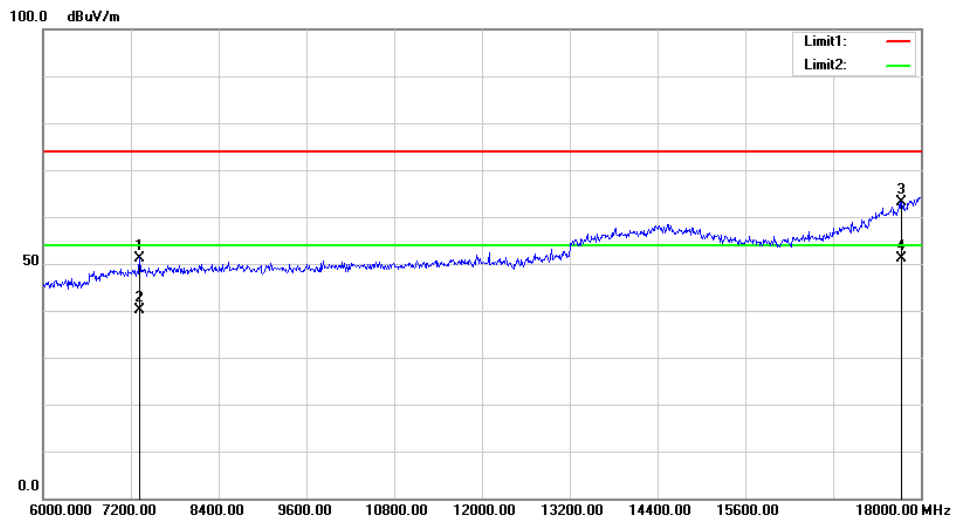
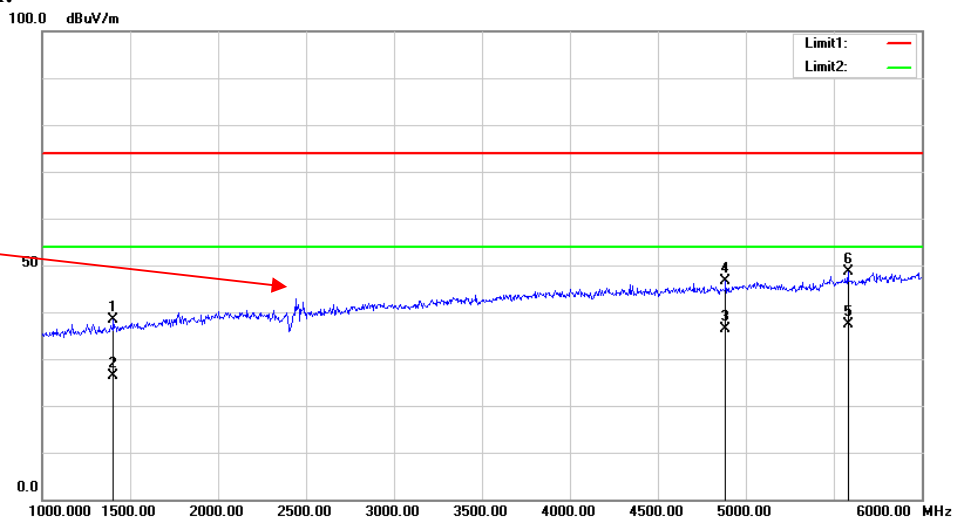
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	70.76	PK	H	28.10	1.80	0.00	100.66	N/A	N/A
2402.00	70.37	AV	H	28.10	1.80	0.00	100.27	N/A	N/A
2402.00	62.75	PK	V	28.10	1.80	0.00	92.65	N/A	N/A
2402.00	62.33	AV	V	28.10	1.80	0.00	92.23	N/A	N/A
2390.00	26.50	PK	H	28.08	1.80	0.00	56.38	74.00	17.62
2390.00	15.15	AV	H	28.08	1.80	0.00	45.03	54.00	8.97
4804.00	38.44	PK	H	32.91	3.17	25.60	48.92	74.00	25.08
4804.00	31.32	AV	H	32.91	3.17	25.60	41.80	54.00	12.20
7206.00	35.62	PK	H	35.74	4.82	25.60	50.58	74.00	23.42
7206.00	24.35	AV	H	35.74	4.82	25.60	39.31	54.00	14.69
Middle Channel: 2440 MHz									
2440.00	69.23	PK	H	28.18	1.82	0.00	99.23	N/A	N/A
2440.00	68.82	AV	H	28.18	1.82	0.00	98.82	N/A	N/A
2440.00	61.11	PK	V	28.18	1.82	0.00	91.11	N/A	N/A
2440.00	68.75	AV	V	28.18	1.82	0.00	98.75	N/A	N/A
4880.00	35.94	PK	H	33.06	3.27	25.66	46.61	74.00	27.39
4880.00	25.76	AV	H	33.06	3.27	25.66	36.43	54.00	17.57
7320.00	36.25	PK	H	36.03	4.62	25.72	51.18	74.00	22.82
7320.00	25.11	AV	H	36.03	4.62	25.72	40.04	54.00	13.96
High Channel: 2480 MHz									
2480.00	66.52	PK	H	28.26	1.84	0.00	96.62	N/A	N/A
2480.00	66.14	AV	H	28.26	1.84	0.00	96.24	N/A	N/A
2480.00	58.35	PK	V	28.26	1.84	0.00	88.45	N/A	N/A
2480.00	58.04	AV	V	28.26	1.84	0.00	88.14	N/A	N/A
2483.50	31.62	PK	H	28.27	1.84	0.00	61.73	74.00	12.27
2483.50	15.57	AV	H	28.27	1.84	0.00	45.68	54.00	8.32
4960.00	39.45	PK	H	33.22	3.23	25.63	50.27	74.00	23.73
4960.00	32.26	AV	H	33.22	3.23	25.63	43.08	54.00	10.92
7440.00	35.48	PK	H	36.34	4.41	25.85	50.38	74.00	23.62
7440.00	24.23	AV	H	36.34	4.41	25.85	39.13	54.00	14.87

2Mbps:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	70.66	PK	H	28.10	1.80	0.00	100.56	N/A	N/A
2402.00	69.56	AV	H	28.10	1.80	0.00	99.46	N/A	N/A
2402.00	63.68	PK	V	28.10	1.80	0.00	93.58	N/A	N/A
2402.00	62.55	AV	V	28.10	1.80	0.00	92.45	N/A	N/A
2390.00	26.15	PK	H	28.08	1.80	0.00	56.03	74.00	17.97
2390.00	16.22	AV	H	28.08	1.80	0.00	46.10	54.00	7.90
4804.00	37.62	PK	H	32.91	3.17	25.60	48.10	74.00	25.90
4804.00	30.17	AV	H	32.91	3.17	25.60	40.65	54.00	13.35
7206.00	36.85	PK	H	35.74	4.82	25.60	51.81	74.00	22.19
7206.00	25.76	AV	H	35.74	4.82	25.60	40.72	54.00	13.28
Middle Channel: 2440 MHz									
2440.00	71.06	PK	H	28.18	1.82	0.00	101.06	N/A	N/A
2440.00	69.82	AV	H	28.18	1.82	0.00	99.82	N/A	N/A
2440.00	64.11	PK	V	28.18	1.82	0.00	94.11	N/A	N/A
2440.00	63.89	AV	V	28.18	1.82	0.00	93.89	N/A	N/A
4880.00	36.35	PK	H	33.06	3.27	25.66	47.02	74.00	26.98
4880.00	25.22	AV	H	33.06	3.27	25.66	35.89	54.00	18.11
7320.00	36.42	PK	H	36.03	4.62	25.72	51.35	74.00	22.65
7320.00	25.37	AV	H	36.03	4.62	25.72	40.30	54.00	13.70
High Channel: 2480 MHz									
2480.00	67.64	PK	H	28.26	1.84	0.00	97.74	N/A	N/A
2480.00	66.50	AV	H	28.26	1.84	0.00	96.60	N/A	N/A
2480.00	60.59	PK	V	28.26	1.84	0.00	90.69	N/A	N/A
2480.00	59.52	AV	V	28.26	1.84	0.00	89.62	N/A	N/A
2483.50	32.15	PK	H	28.27	1.84	0.00	62.26	74.00	11.74
2483.50	17.73	AV	H	28.27	1.84	0.00	47.84	54.00	6.16
4960.00	40.27	PK	H	33.22	3.23	25.63	51.09	74.00	22.91
4960.00	33.32	AV	H	33.22	3.23	25.63	44.14	54.00	9.86
7440.00	35.51	PK	H	36.34	4.41	25.85	50.41	74.00	23.59
7440.00	24.44	AV	H	36.34	4.41	25.85	39.34	54.00	14.66

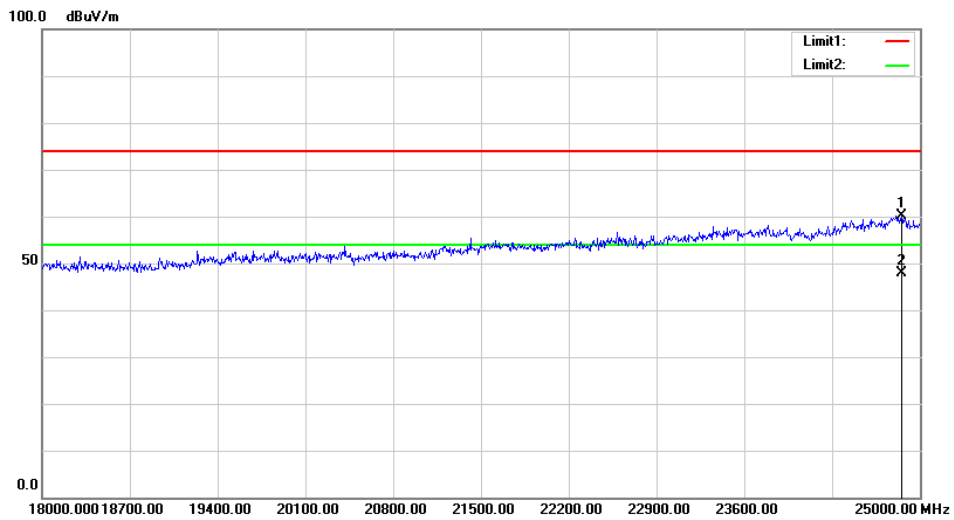
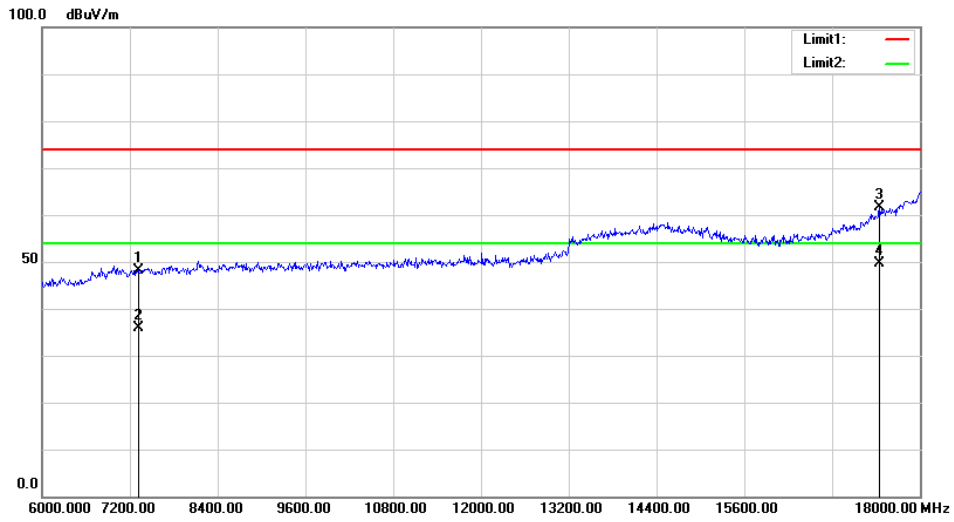
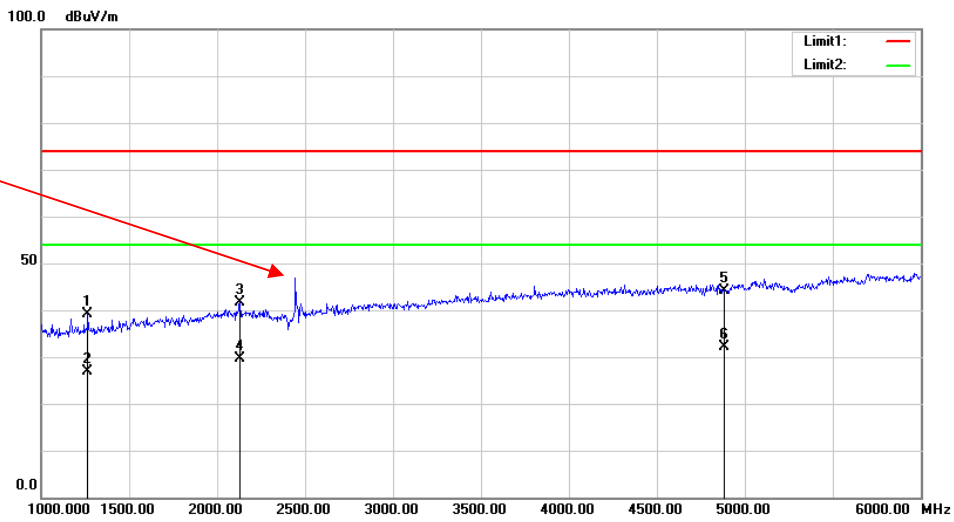
Worst Test plots(Chain 1,1Mbps Middle channel)
Horizontal:

Fundamental
Test with Band
Rejection Filter



Vertical:

Fundamental Test with Band Rejection Filter



FCC §15.247(a) (2) & RSS-247 CLAUSE 5.2 a) & RSS-GEN CLAUSE 6.7–6 dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

Applicable Standard

According to FCC §15.247(a) (2)

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.

According to RSS-247 §5.2 a)

The minimum 6 dB bandwidth shall be 500 kHz.

According to RSS-Gen §6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

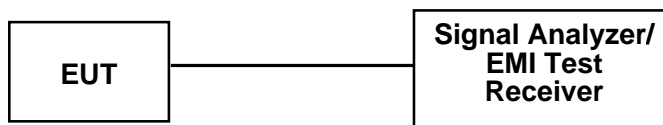
Test Procedure

6dB bandwidth test:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

99% Occupied bandwidth test:

Use Occupied bandwidth test function, measure the 99% Occupied bandwidth. 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	FSU 26	200256	2020-01-04	2021-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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:	8.1°C
Relative Humidity:	61%
ATM Pressure:	100.3 Pa
Tester:	Chirs Mo
Test Date:	2020-07-29

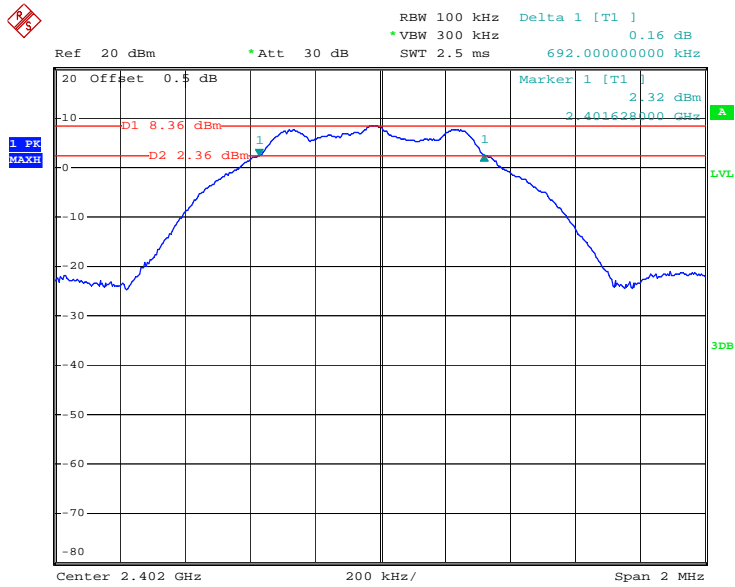
Test Mode: Transmitting

Test Result: Compliant. Test only performed at chain 0, please refer to the following table and plots.

Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
1Mbps	Low	2402	0.692	1.044	≥ 0.5
	Middle	2440	0.684	1.052	≥ 0.5
	High	2480	0.696	1.048	≥ 0.5
2Mbps	Low	2402	1.144	2.048	≥ 0.5
	Middle	2440	1.144	2.064	≥ 0.5
	High	2480	1.136	2.056	≥ 0.5

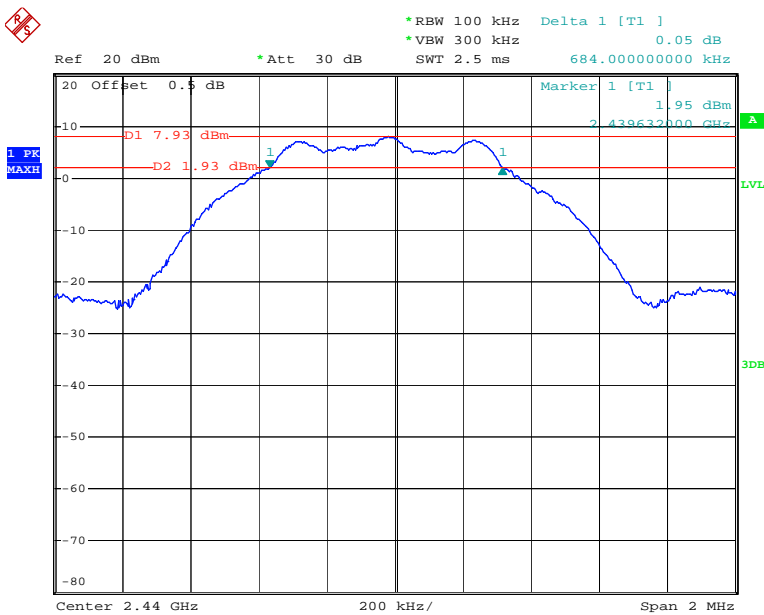
6dB bandwidth:

1Mbps- Low Channel



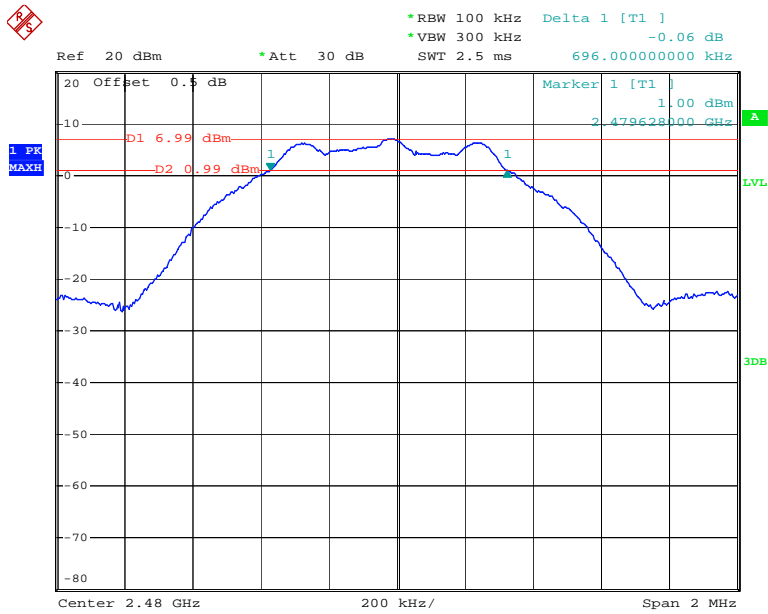
Date: 29.JUL.2020 15:12:33

1Mbps-Middle Channel



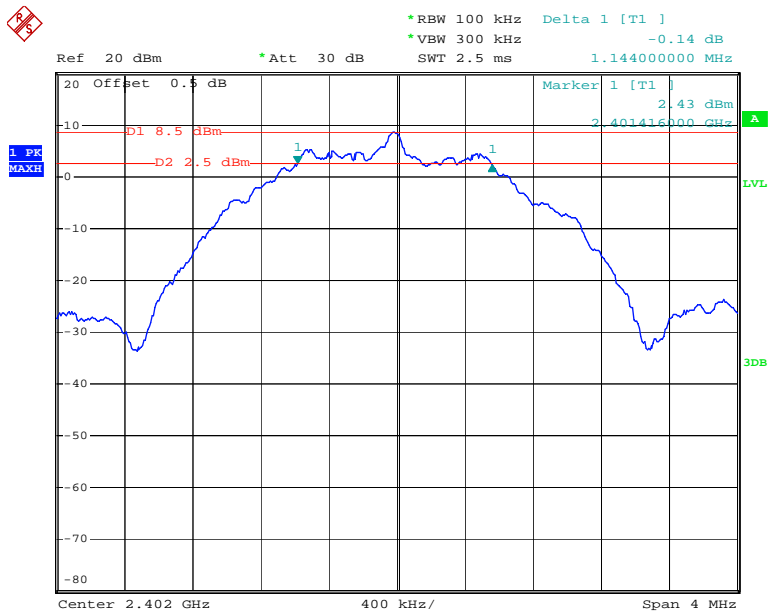
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1Mbps-High Channel



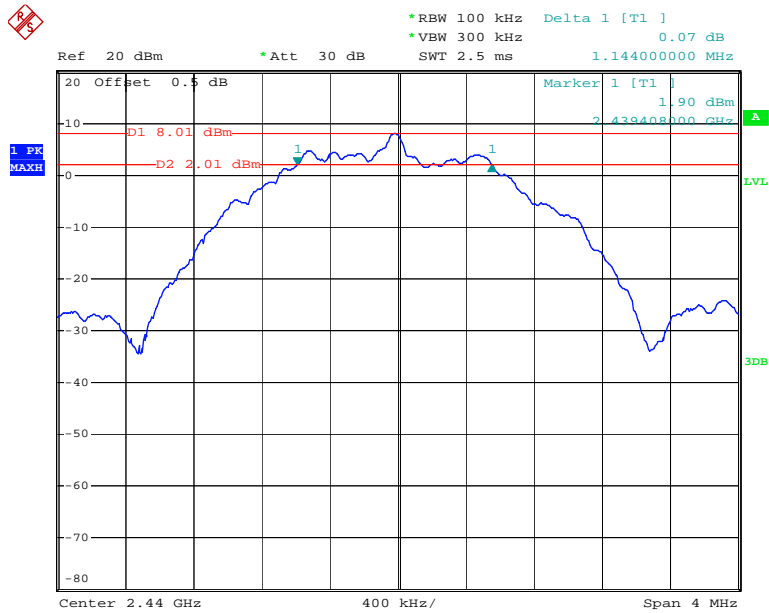
Date: 29.JUL.2020 15:16:04

2Mbps-Low Channel



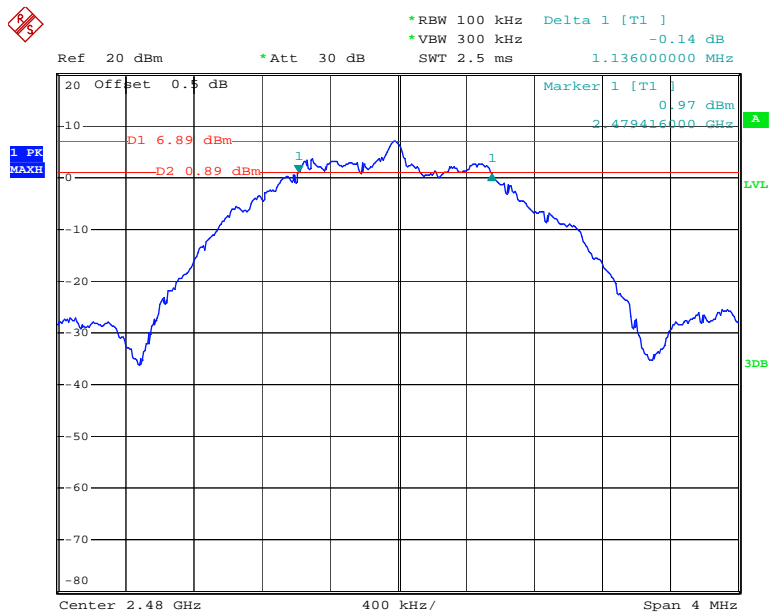
Date: 29.JUL.2020 15:17:42

2Mbps-Middle Channel



Date: 29.JUL.2020 15:20:28

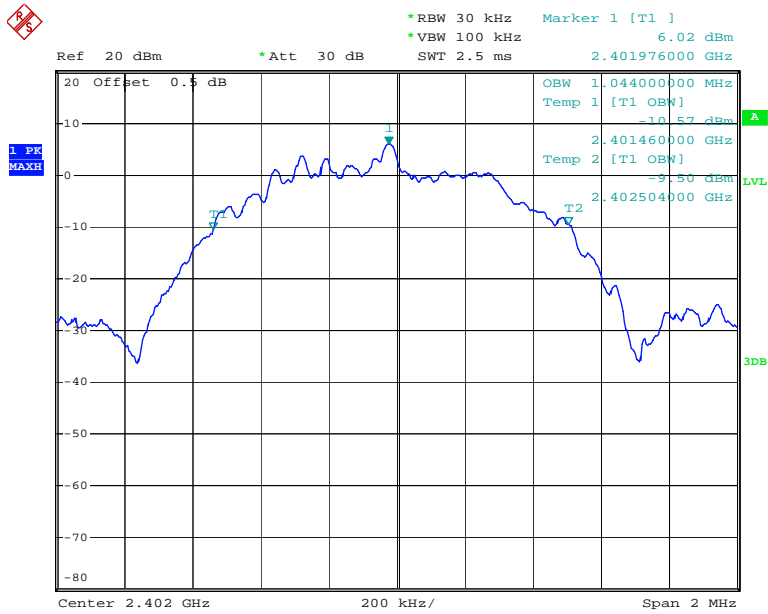
2Mbps-High Channel



Date: 29.JUL.2020 15:21:54

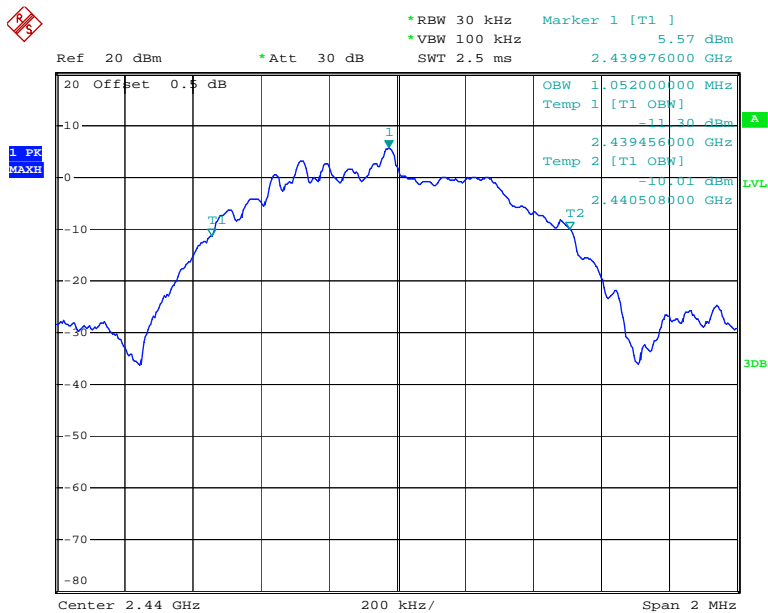
99% Occupied bandwidth:

1Mbps-Low Channel



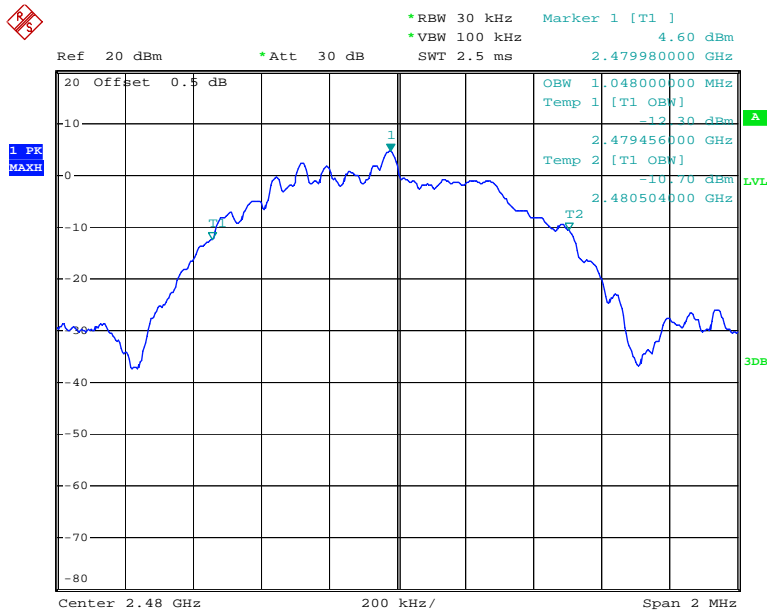
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1Mbps-Middle Channel



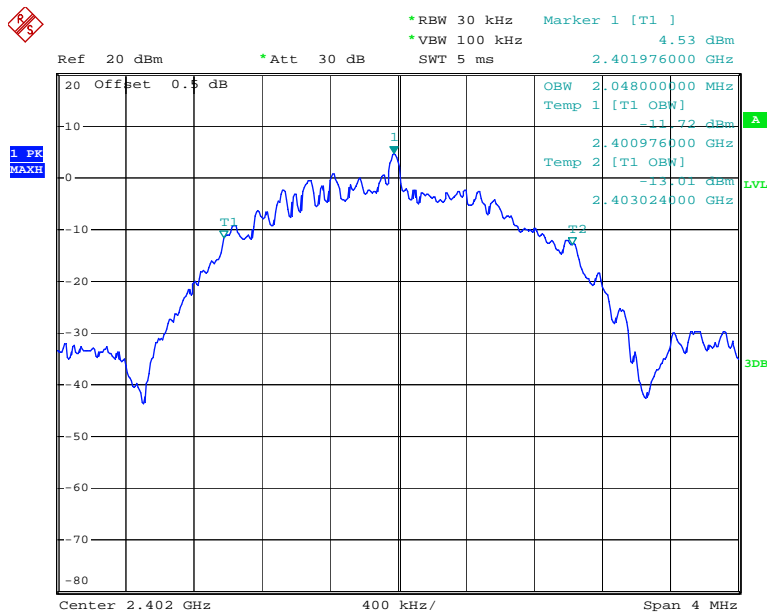
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1Mbps-High Channel



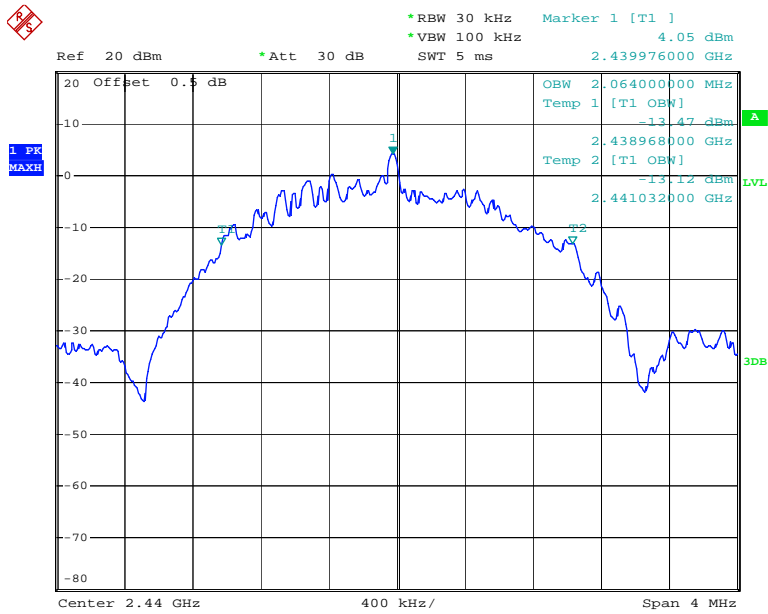
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2Mbps-Low Channel



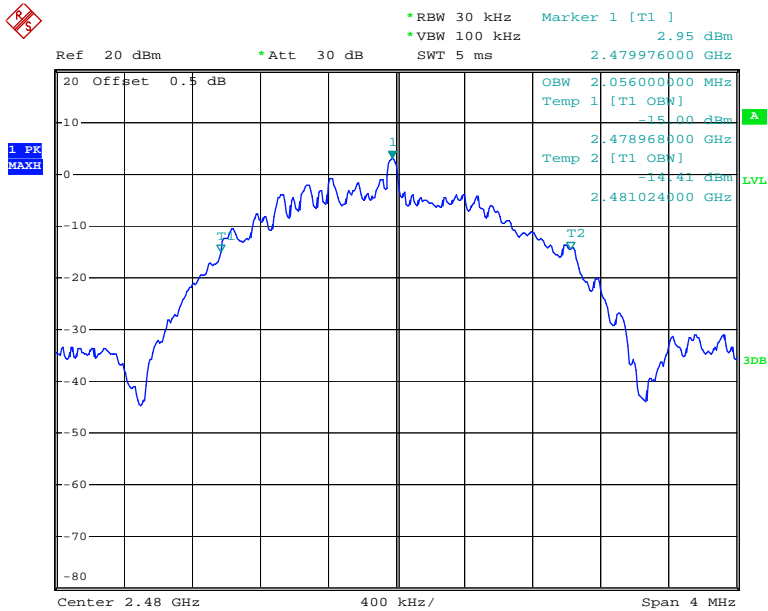
Date: 29.JUL.2020 15:17:55

2Mbps-Middle Channel



Date: 29.JUL.2020 15:20:41

2Mbps-High Channel



Date: 29.JUL.2020 15:22:06

FCC §15.247(b) (3)& RSS-247 CLAUSE 5.4 d) - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Applicable Standard

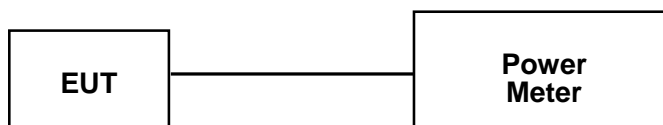
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted 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.

According to RSS-247§5.4 d) For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(e), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, 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
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Agilent	USB Wideband Power Sensor	U2022XA	MY5417006	2019-09-23	2020-09-23

* **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:	20.8°C
Relative Humidity:	61%
ATM Pressure:	101.5 Pa
Tester:	Chira Mo
Test Date:	2020-07-29

Test Mode: Transmitting

Test Result: Compliant. Please refer to following Table.

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)		Peak Conducted Output power Limit (dBm)
		Chain 0	Chain 1	
1Mbps	2402	9.25	9.99	30
	2440	8.86	9.44	30
	2480	8.14	8.51	30
2Mbps	2402	9.24	10.01	30
	2440	8.86	9.46	30
	2480	8.14	8.53	30

Note: The data above was tested in conducted mode, the antenna gain is 3 dBi, meet the RSS-247 EIRP requirement.

FCC §15.247(d)& RSS-247 CLAUSE 5.5 – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

According to FCC§15.247(d):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)).

According to RSS-247 Clause 5.5:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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	FSU 26	200256	2020-01-04	2021-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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

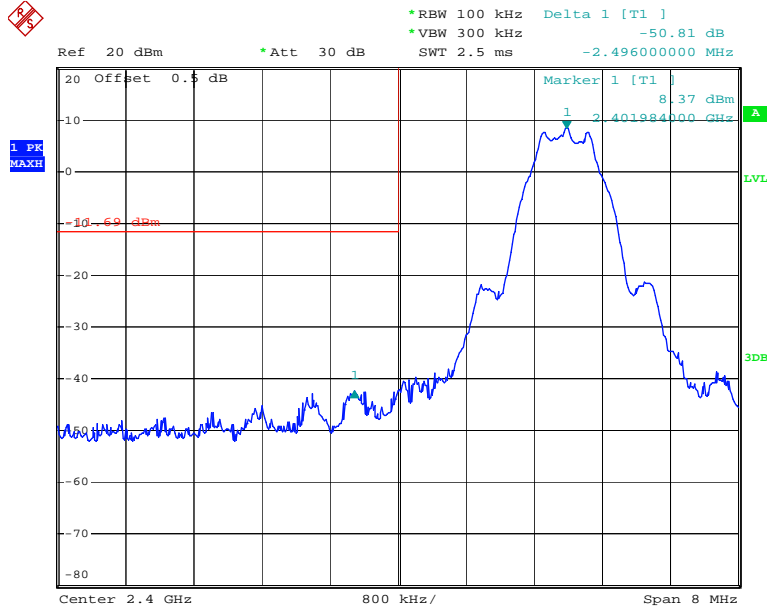
Temperature:	28.1°C
Relative Humidity:	61%
ATM Pressure:	100.3 Pa
Tester:	Chirs Mo
Test Date:	2020-07-29

Test mode: Transmitting

Test Result: Compliant. Please refer to following plots.

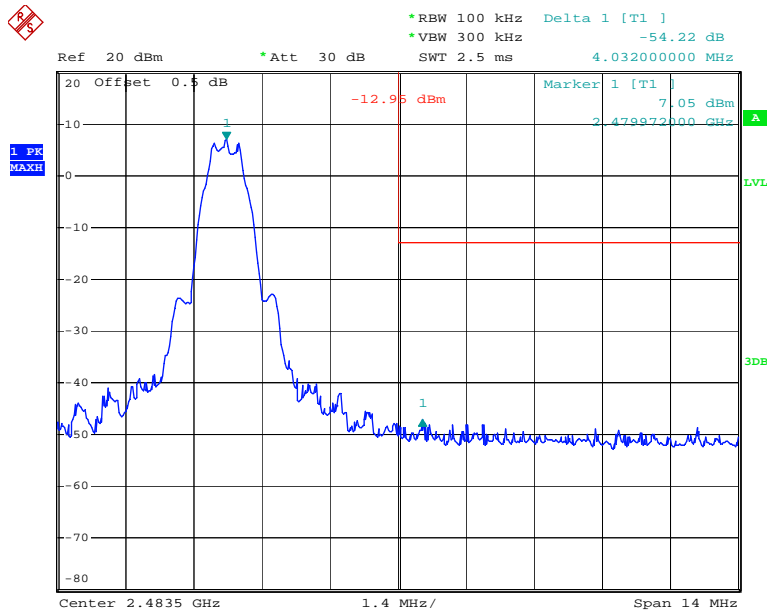
**Chain 0:
1Mbps:**

Band Edge, Left Side



Date: 29.JUL.2020 15:13:35

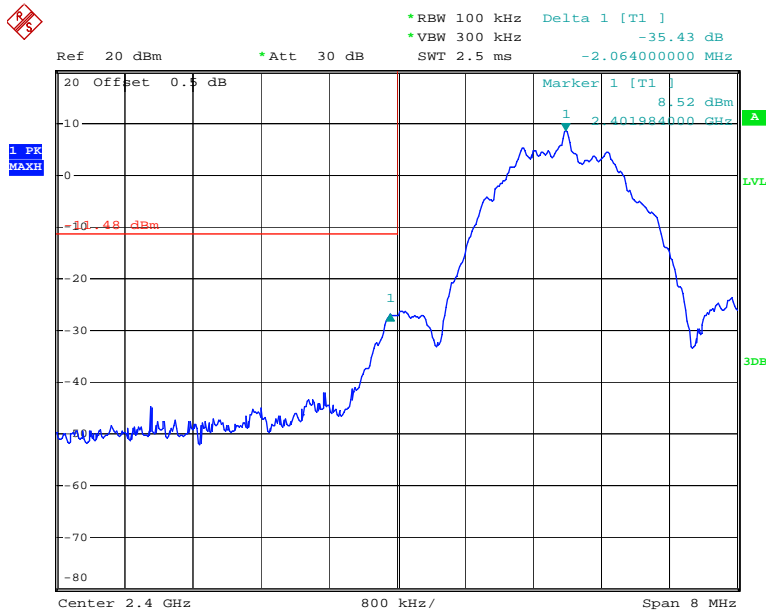
Band Edge, Right Side



Date: 29.JUL.2020 15:17:07

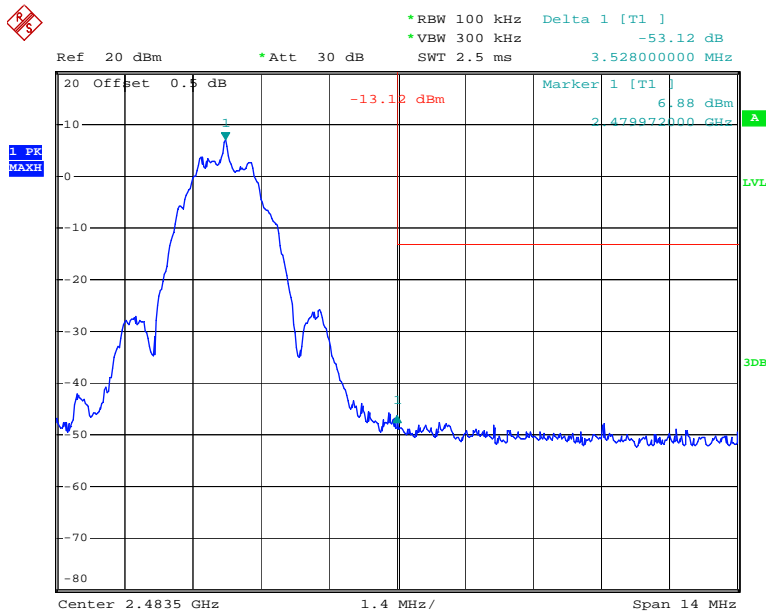
2Mbps:

Band Edge, Left Side



Date: 29.JUL.2020 15:18:55

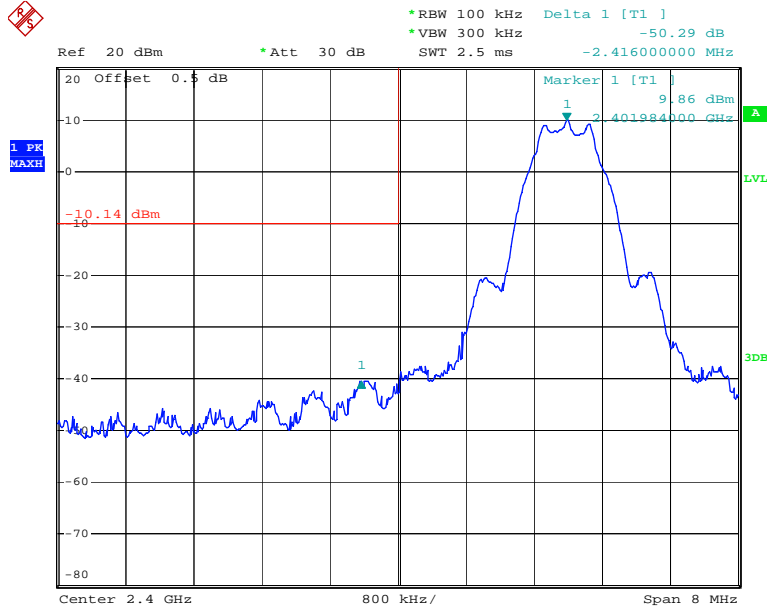
Band Edge, Right Side



Date: 29.JUL.2020 15:22:56

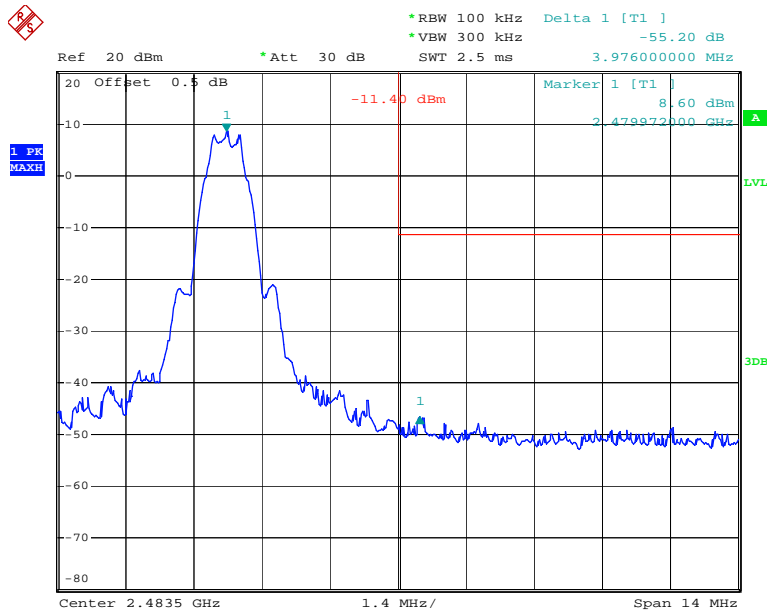
**Chain 1:
1Mbps:**

Band Edge, Left Side



Date: 29.JUL.2020 14:33:46

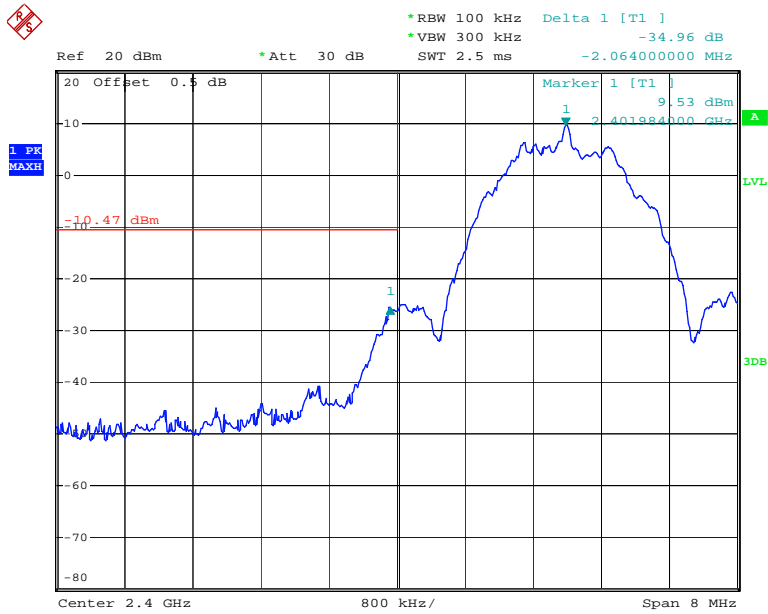
Band Edge, Right Side



Date: 29.JUL.2020 14:37:16

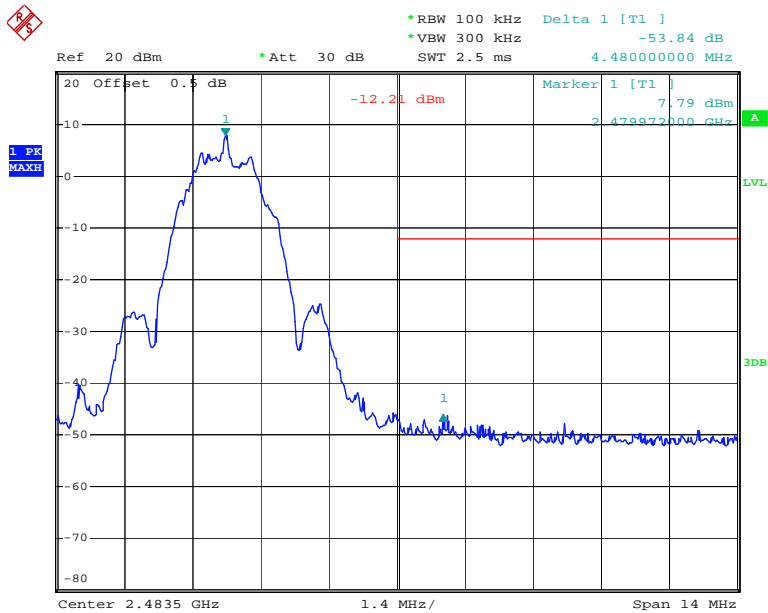
2Mbps:

Band Edge, Left Side



Date: 29.JUL.2020 14:38:19

Band Edge, Right Side



Date: 29.JUL.2020 14:40:16

FCC §15.247(e) & RSS-247 CLAUSE 5.2 b - POWER SPECTRAL DENSITY

Applicable Standard

According to FCC§15.247(e):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.

According to RSS-247 §5.2 b):

- b) The transmitter power spectral density conducted from the transmitter 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 section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

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	2020-01-04	2021-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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:	28.1°C
Relative Humidity:	61%
ATM Pressure:	100.3Pa
Tester:	Chirs Mo
Test Date:	2020-07-29

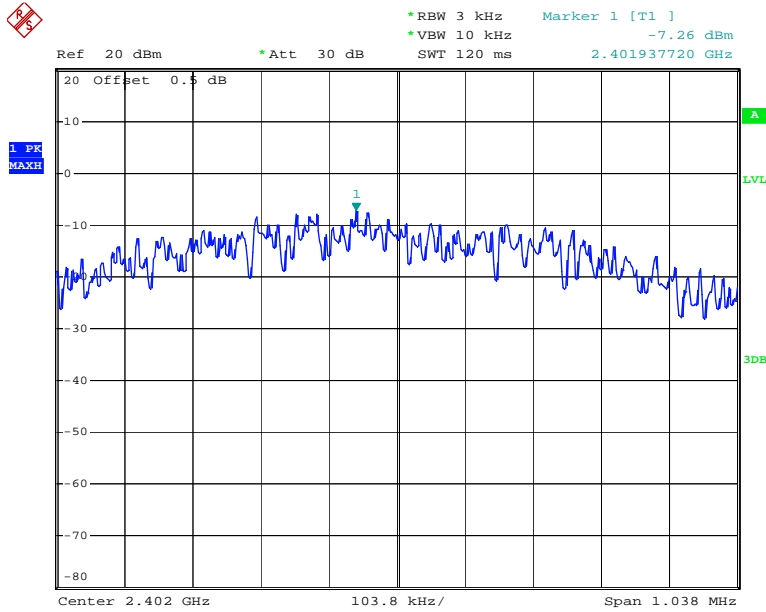
Test Mode: Transmitting

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

Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)		Limit (dBm/3kHz)
			Chain 0	Chain 1	
1Mbps	Low	2402	-7.26	-6.22	≤8
	Middle	2440	-7.82	-6.72	≤8
	High	2480	-8.68	-7.85	≤8
2Mbps	Low	2402	-9.96	-9.14	≤8
	Middle	2440	-10.40	-9.39	≤8
	High	2480	-11.68	-10.61	≤8

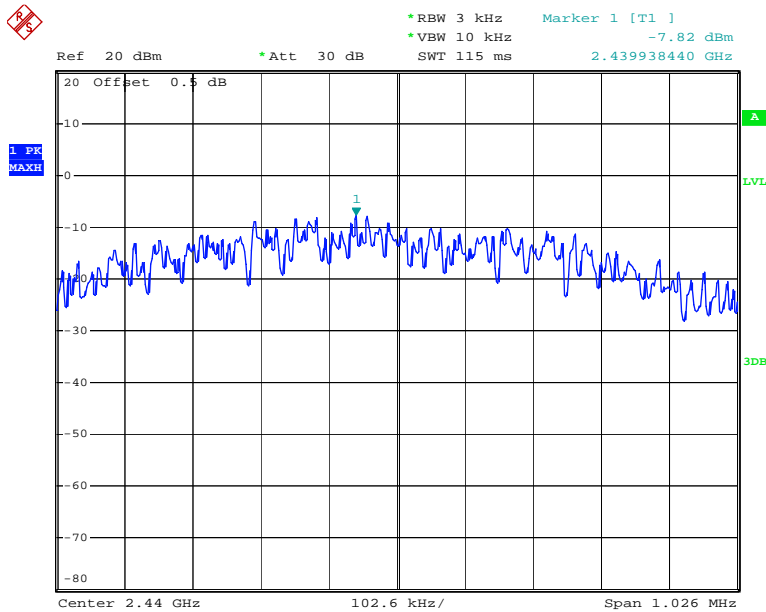
Chain 0:
1Mbps:

Power Spectral Density, Low Channel



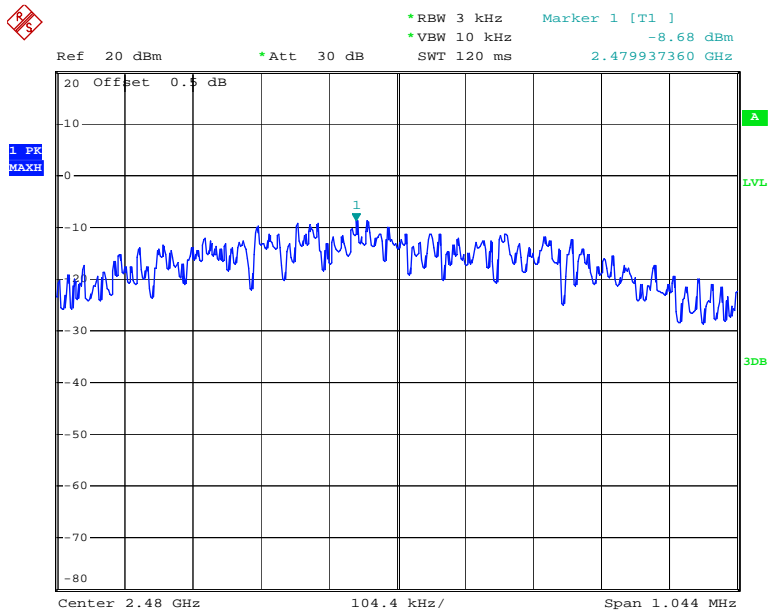
Date: 29.JUL.2020 15:12:54

Power Spectral Density, Middle Channel



Date: 29.JUL.2020 15:14:59

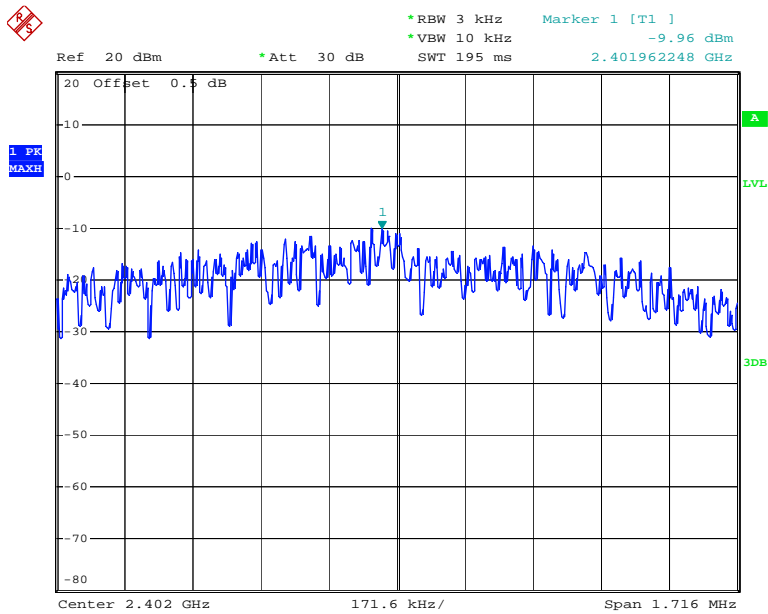
Power Spectral Density, High Channel



Date: 29.JUL.2020 15:16:28

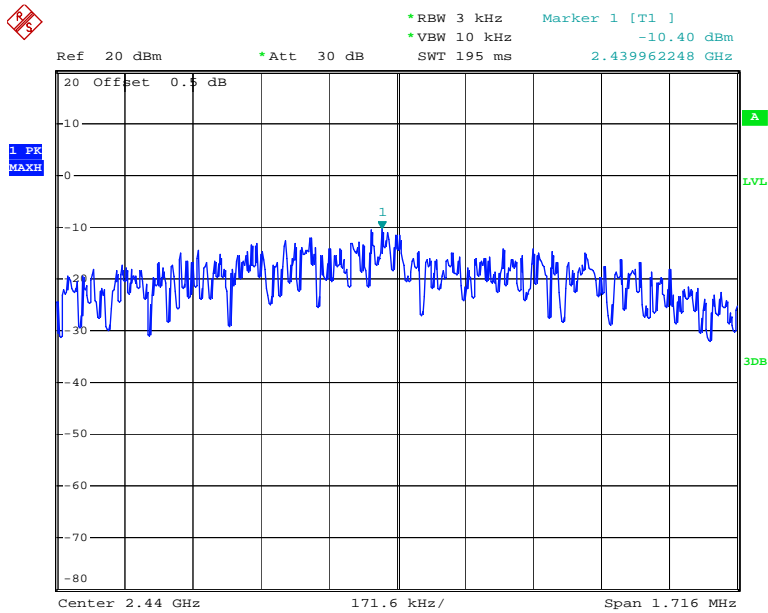
2Mbps:

Power Spectral Density, Low Channel



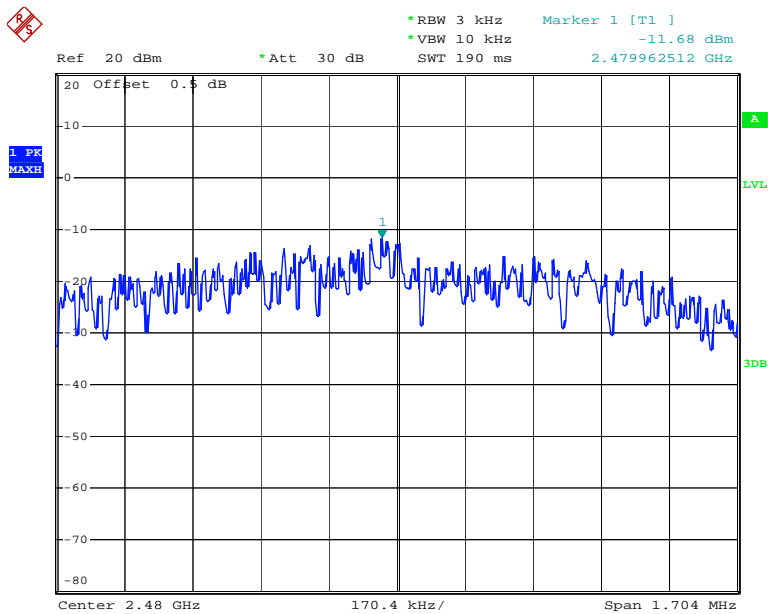
Date: 29.JUL.2020 15:18:03

Power Spectral Density, Middle Channel



Date: 29.JUL.2020 15:20:49

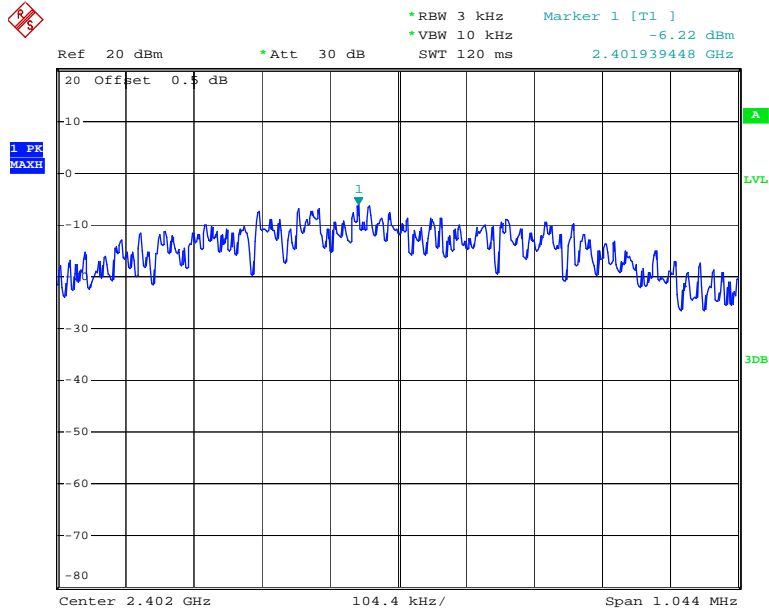
Power Spectral Density, High Channel



Date: 29.JUL.2020 15:22:15

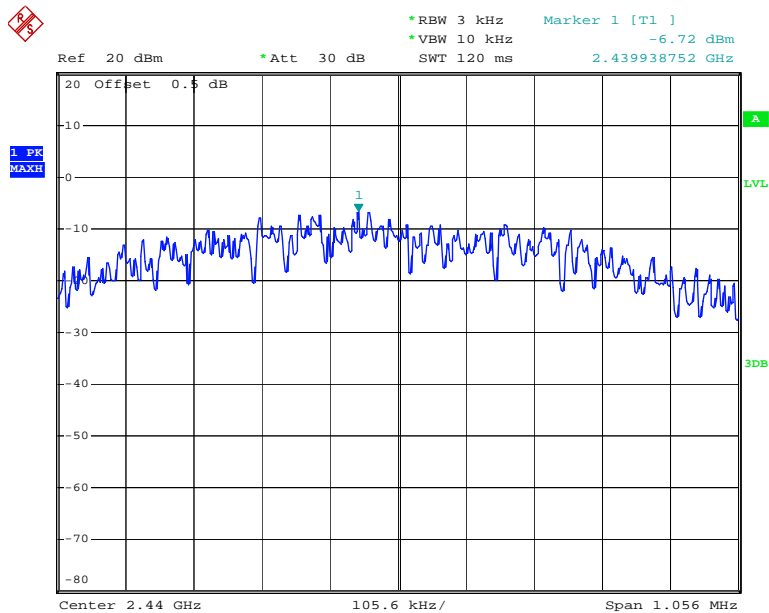
Chain 1:
1Mbps:

Power Spectral Density, Low Channel



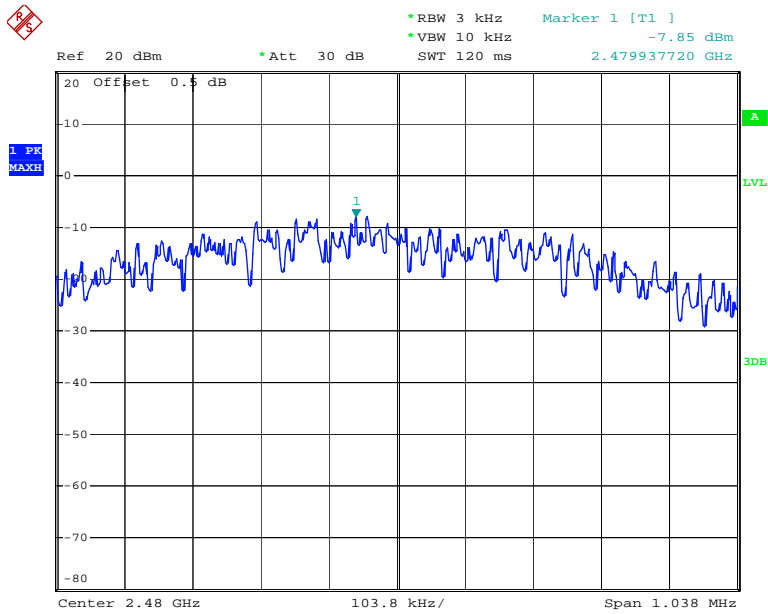
Date: 29.JUL.2020 14:47:15

Power Spectral Density, Middle Channel



Date: 29.JUL.2020 14:48:07

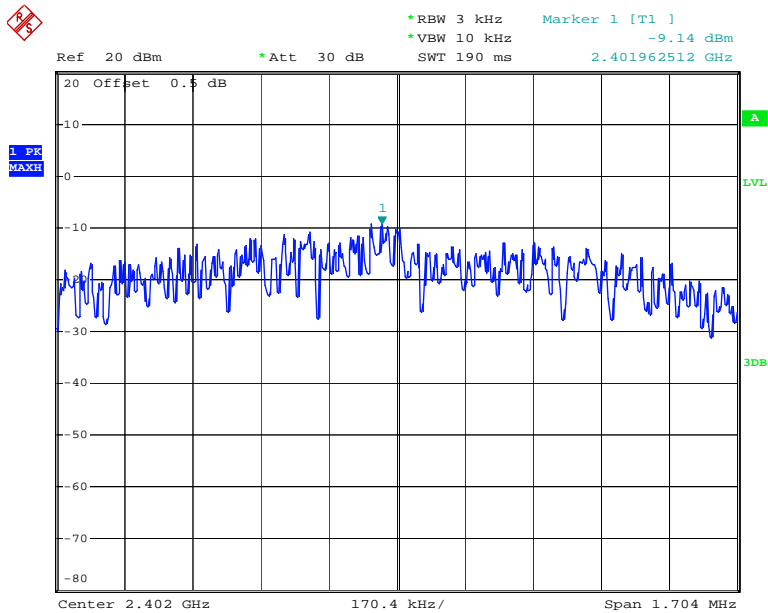
Power Spectral Density, High Channel



Date: 29.JUL.2020 14:48:49

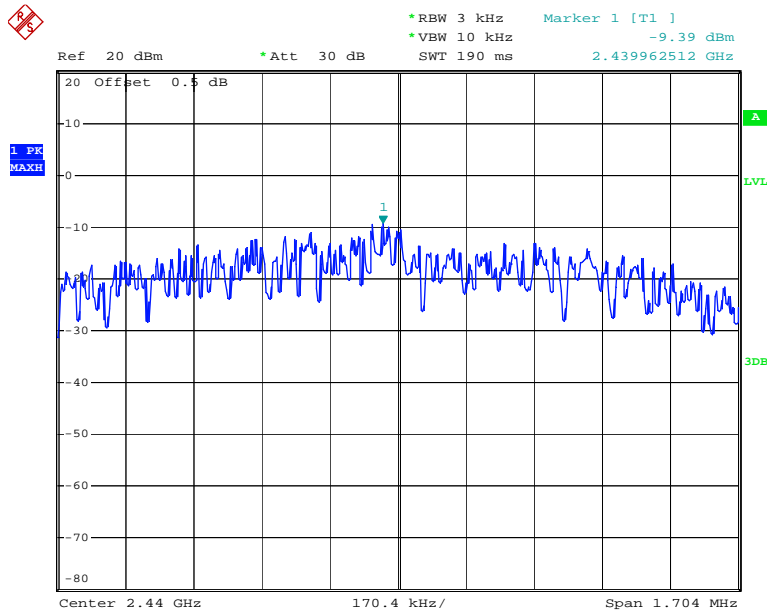
2Mbps:

Power Spectral Density, Low Channel



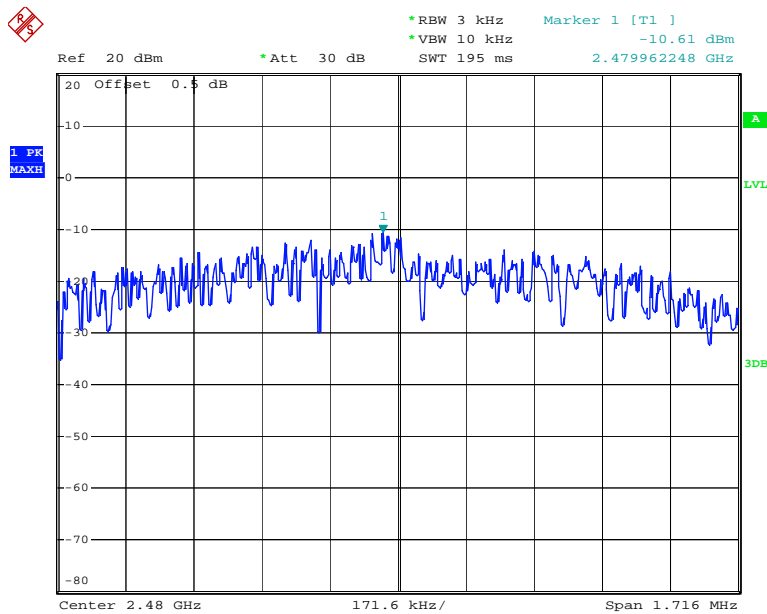
Date: 29.JUL.2020 14:51:55

Power Spectral Density, Middle Channel



Date: 29.JUL.2020 14:50:51

Power Spectral Density, High Channel



Date: 29.JUL.2020 14:49:36

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