



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15.247 TEST REPORT

For

Shenzhen Lilian Communication Technology Co., Ltd.

Room1207BiwanbuildingXixiangSubdistrictBaoanShenzhenChina

FCC ID:2AV8R-67

Report Type: Original Report	Product Name: 4G LTE Mobile WIFI
Report Number: RDG200421001-00A	
Report Date: 2020-05-18	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	4G LTE Mobile WIFI
EUT Model:	M7
Multiple Models:	M7XX,M6,M6XX.(“X” stands for 0-9 and “X” stands for a-z or A-Z)
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20) 2422-2452 MHz(802.11n ht40)
Maximum Peak Output Power (Conducted):	21.47 dBm
Modulation Type:	DSSS, OFDM
Rated Input Voltage:	DC 3.7V from battery or DC5V from USB port
Serial Number:	RDG200421001-RF-S1
EUT Received Date:	2020.04.25
EUT Received Status:	Good

Note 1: Model M7 was selected for fully testing, the detailed information about the difference among M7 and model M7XX,M6,M6XX can be referred to the declaration letter which was stated and guaranteed by the manufacturer.

Note 2: Per FCC part 15B test, the model M7was the worst case, so this report test this model only.

Objective

This report is prepared on behalf of *Shenzhen Lilian Communication 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.

Related Submittal(s)/Grant(s)

FCC Part Part 22H,24E, 27 PCB submissions with FCC ID: 2AV8R-67.

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 4G LTE Mobile WIFI. And 558074 D01 15.247 Meas Guidance v05r02.

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 “ Δ ”. 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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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer. For 2.4GHz band, total 11 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were test with channel 1,6,11. For 802.11n ht40 mode was tested with channel 3, 6, 9.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations. The device supports SISO in all modes, and MIMO in 802.11n modes, per pretest, MIMO mode was the worst mode and reported for 802.11n modes.

EUT Exercise Software

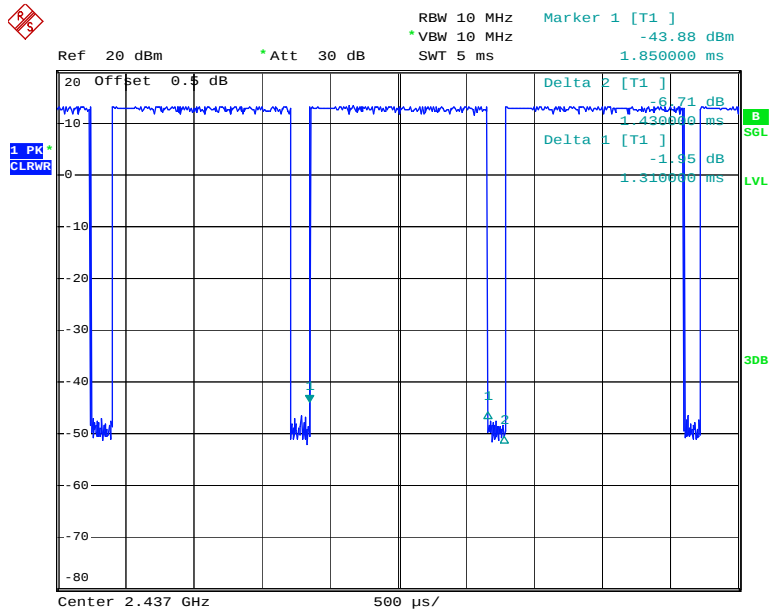
The software “abd.exe” was used for testing, which was provided by manufacturer. The maximum power was configured as below table, that provided by the manufacturer:

Mode	Channel	Frequency (MHz)	Data rate	Power level Setting	
				Chain 0	Chain 1
802.11 b	Low	2412	1Mbps	42	50
	Middle	2437	1Mbps	42	50
	High	2462	1Mbps	42	53
802.11 g	Low	2412	6Mbps	50	50
	Middle	2437	6Mbps	46	50
	High	2462	6Mbps	46	53
802.11n ht20	Low	2412	MCS8	46	50
	Middle	2437	MCS8	44	50
	High	2462	MCS8	42	53
802.11n ht40	Low	2422	MCS8	42	50
	Middle	2437	MCS8	40	50
	High	2452	MCS8	40	52

The maximum duty cycle as following table:

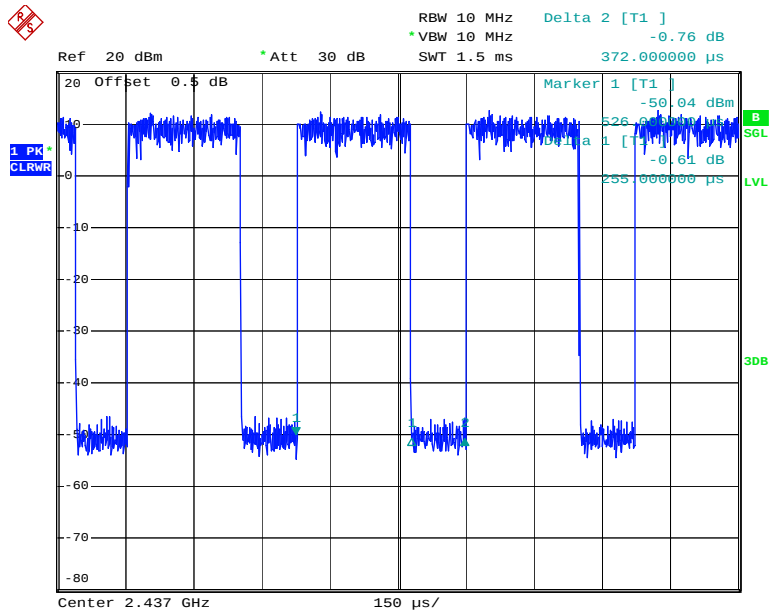
Test mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11b	1.31	1.43	91.61
802.11g	0.255	0.372	68.55
802.11n ht20	0.237	0.345	68.70
802.11n ht40	0.133	0.261	50.96

802.11b



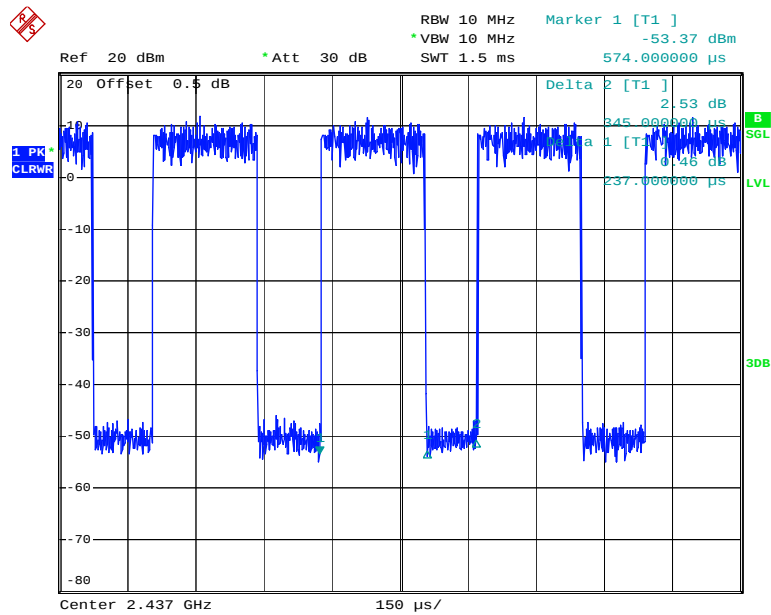
Date: 18.MAY.2020 20:02:24

802.11g



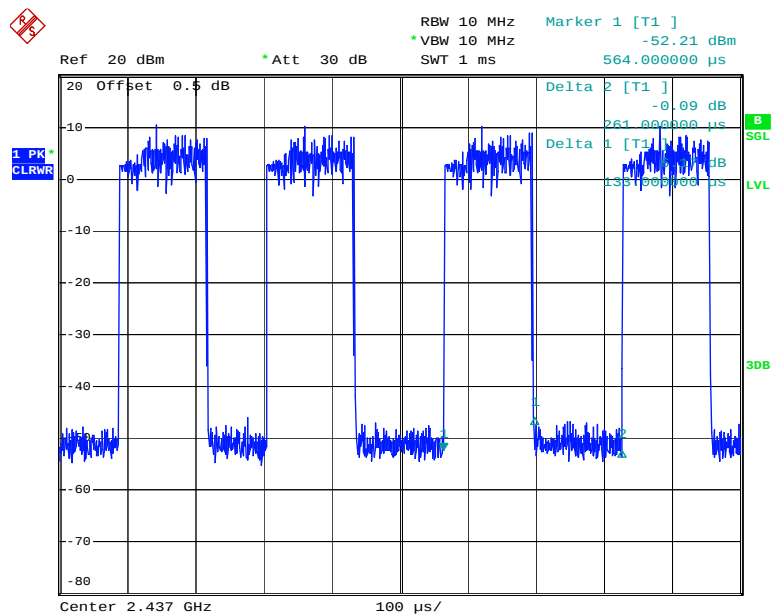
Date: 18.MAY.2020 20:04:53

802.11n ht20



Date: 18.MAY.2020 20:15:23

802.11n ht40



Date: 18.MAY.2020 20:37:41

Equipment Modifications

No modification was made to the EUT.

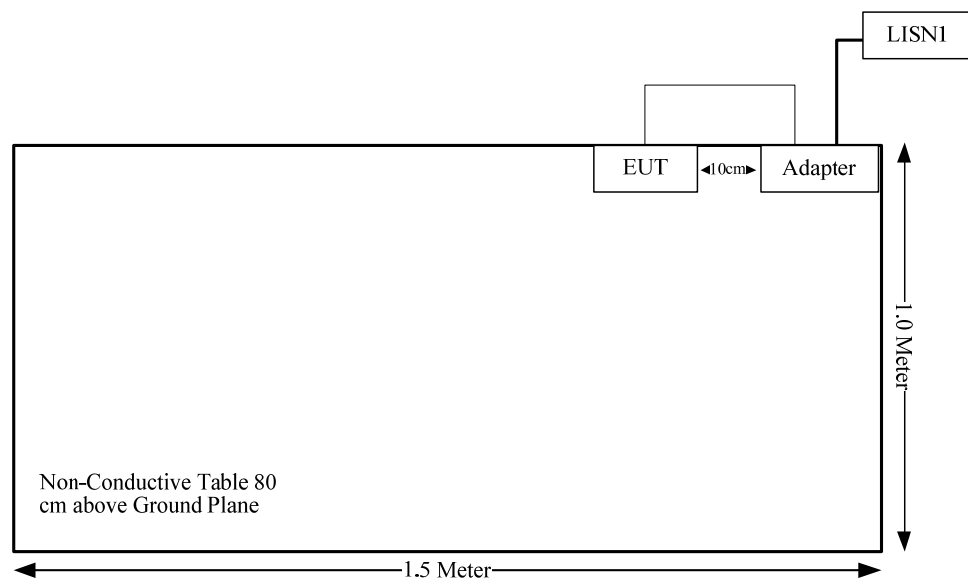
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HUAWEI	Adapter	HW-050200C01	P78518G9V49032

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	To
USB Cable	Yes	No	1	EUT	Adapter

Configuration 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	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

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.

Measurement Result

Please refer to the SAR report: RDG200421001-SAR.

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 antenna permanently attached to the unit. Please refer to the EUT photos and below information:

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

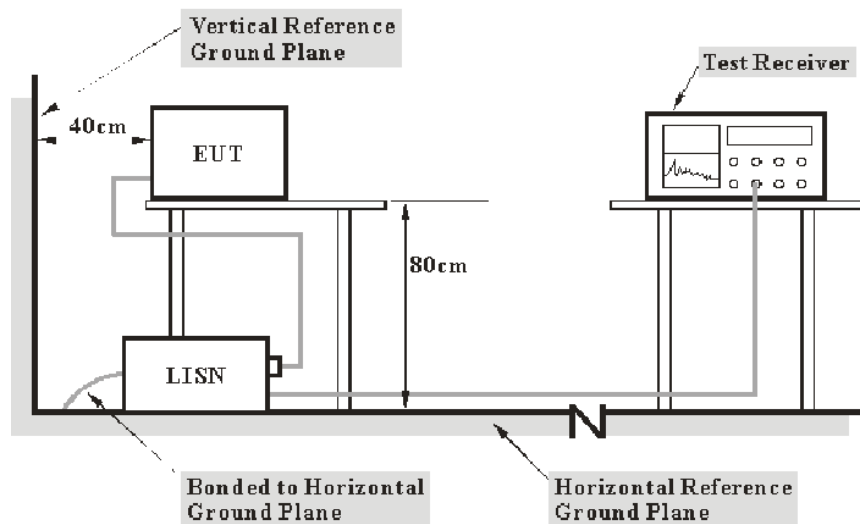
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main lisn with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

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

Test Procedure

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

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the 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
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2019-09-05	2020-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2019-12-10	2020-12-10
R&S	EMI Test Receiver	ESPI	100120	2019-05-09	2020-05-09
R&S	L.I.S.N	ESH2-Z5	892107/021	2019-09-19	2020-09-19

* **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).

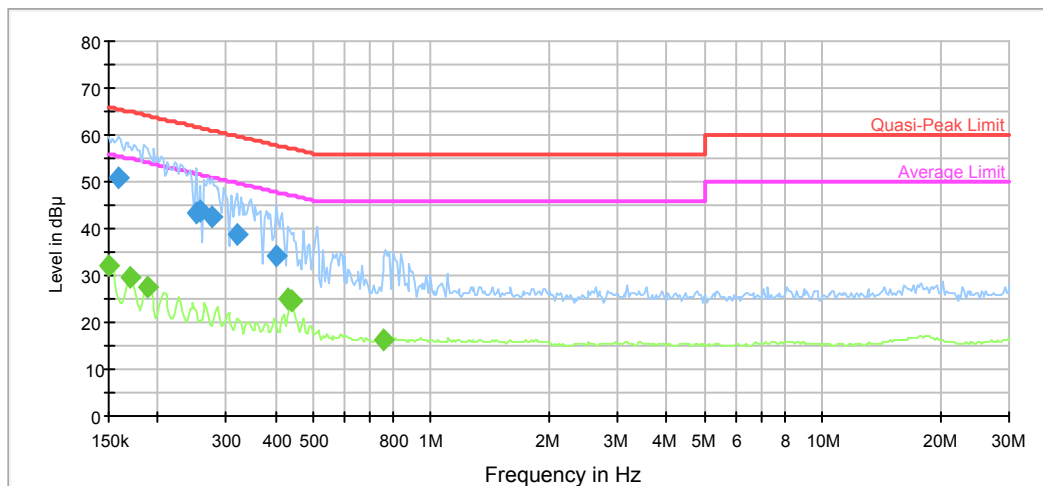
Test Data

Environmental Conditions

Temperature:	24.6 °C
Relative Humidity:	63%
ATM Pressure:	101.8 kPa
Tester:	Hayley Lao
Test Date:	2020.04.27

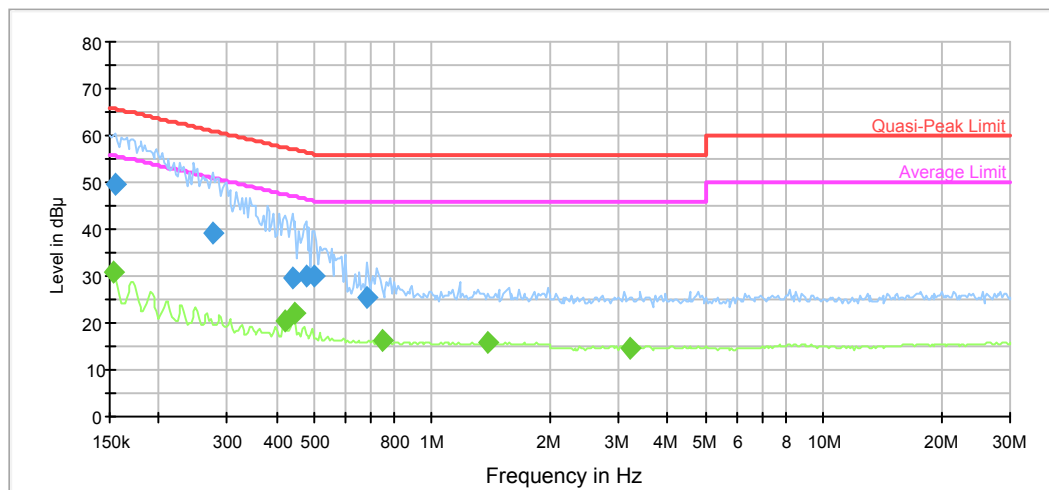
Test Mode: Transmitting (Wi-Fi mode 802.11b middle channel chain 0 was the worst)

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.159228	50.9	9.000	L1	9.7	14.6	65.5
0.251654	43.2	9.000	L1	9.7	18.5	61.7
0.256712	43.7	9.000	L1	9.7	17.8	61.5
0.275230	42.7	9.000	L1	9.7	18.3	61.0
0.319533	38.8	9.000	L1	9.7	20.9	59.7
0.401705	34.0	9.000	L1	9.7	23.8	57.8

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	32.0	9.000	L1	9.7	24.0	56.0
0.170714	29.6	9.000	L1	9.7	25.3	54.9
0.188575	27.7	9.000	L1	9.7	26.4	54.1
0.430682	24.8	9.000	L1	9.7	22.4	47.2
0.439339	24.4	9.000	L1	9.7	22.7	47.1
0.759409	16.4	9.000	L1	9.7	29.6	46.0

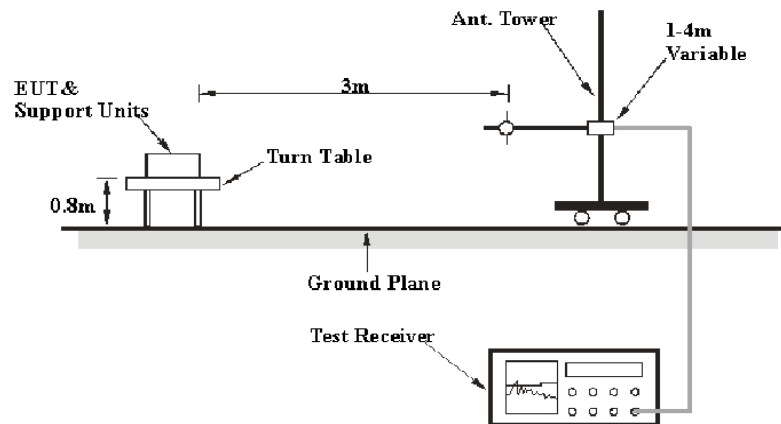
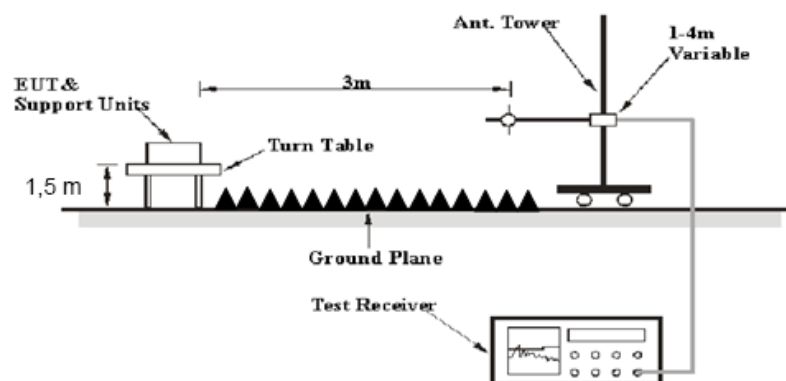
AC120 V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.156091	49.6	9.000	N	9.7	16.1	65.7
0.275230	39.1	9.000	N	9.7	21.9	61.0
0.439339	29.5	9.000	N	9.6	27.6	57.1
0.475741	30.1	9.000	N	9.6	26.3	56.4
0.500009	30.1	9.000	N	9.6	25.9	56.0
0.680676	25.6	9.000	N	9.6	30.4	56.0

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.153015	30.8	9.000	N	9.7	25.0	55.8
0.422196	20.5	9.000	N	9.6	26.9	47.4
0.443733	22.0	9.000	N	9.6	25.0	47.0
0.744445	16.3	9.000	N	9.6	29.7	46.0
1.393411	15.7	9.000	N	9.6	30.3	46.0
3.214213	14.8	9.000	N	9.6	31.2	46.0

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 Below 1GHz tests were performed in the 3 meters chamber test site A, above 1GHz tests were performed in the 3 meters chamber test site B, 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:

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

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>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 Below 1GHz					
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	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
Radiation Above 1GHz					
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-05-09	2020-05-09
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2019-11-18	2022-11-18
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2019-09-05	2020-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2019-06-27	2020-06-27
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2019-06-16	2020-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2019-06-16	2020-06-16

* **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**

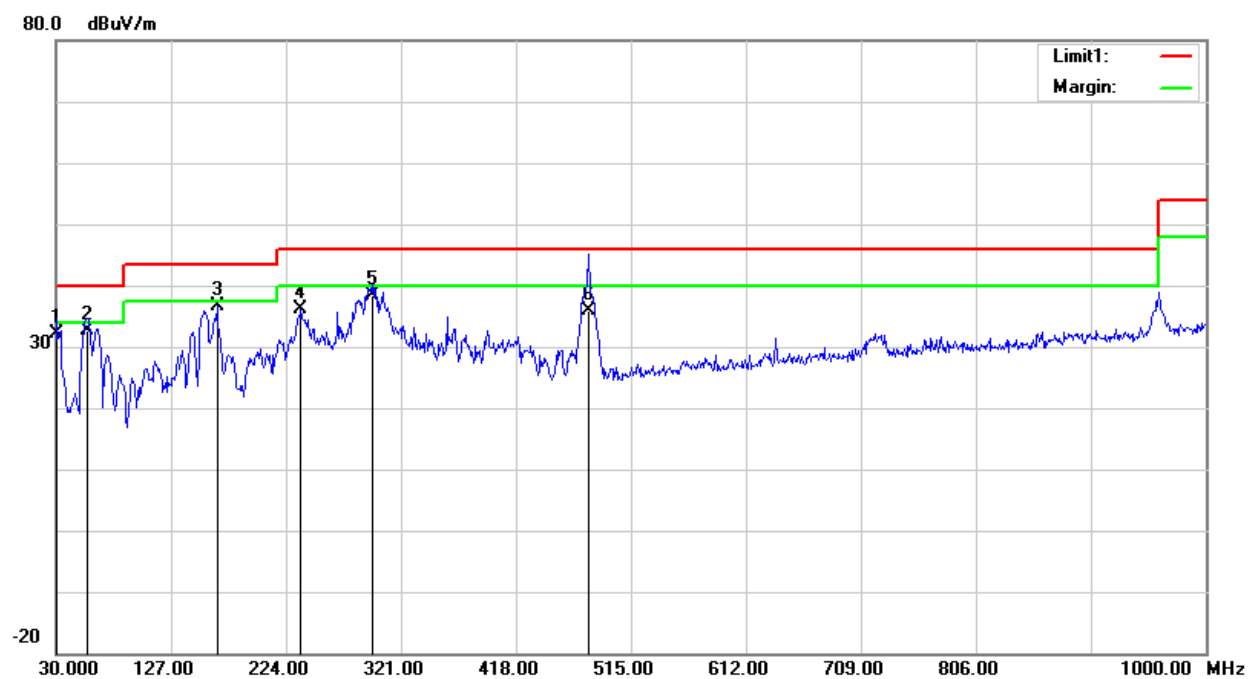
Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	25.2 °C	25.2 °C
Relative Humidity:	53%	53%
ATM Pressure:	100.5 kPa	100.5 kPa
Tester:	Davy Wang	Jalon Liu
Test Date:	2020-05-14	2020-05-08

Test Result: Compliance, please Refer to the following data

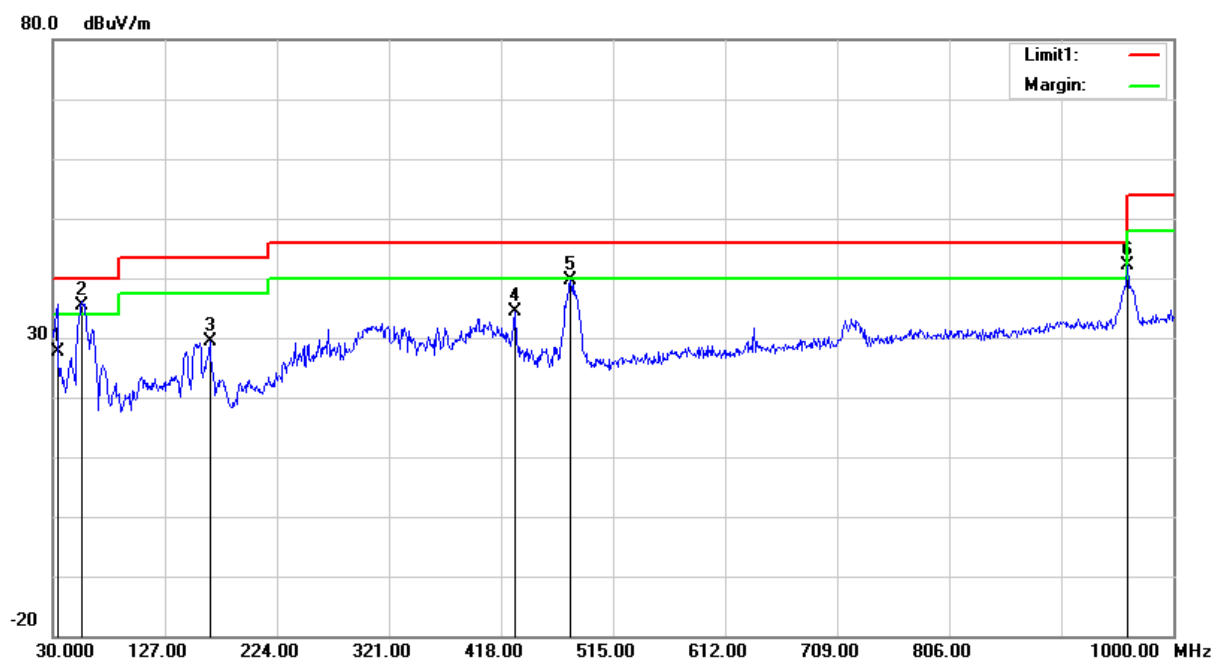
Test Mode: Transmitting

1) 30MHz-1GHz(802.11b,Chain 0 Low 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	30.50	QP	1.72	32.22	40.00	7.78
56.1900	44.67	QP	-12.14	32.53	40.00	7.47
165.8000	42.88	peak	-6.21	36.67	43.50	6.83
236.6100	42.25	peak	-6.15	36.10	46.00	9.90
296.7500	42.28	QP	-3.90	38.38	46.00	7.62
479.1100	36.20	QP	-0.29	35.91	46.00	10.09

Vertical:

Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
33.8800	28.90	QP	-1.29	27.61	40.00	12.39
55.2200	47.40	QP	-12.10	35.30	40.00	4.70
165.8000	35.54	peak	-6.21	29.33	43.50	14.17
429.6400	35.66	peak	-1.29	34.37	46.00	11.63
478.1400	39.92	peak	-0.32	39.60	46.00	6.40
960.2300	40.96	peak	1.09	42.05	54.00	11.95

2) 1-25GHz:
802.11b Mode, Chain 0

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: 2412 MHz									
2390.00	26.34	PK	H	28.08	1.80	0.00	56.22	74.00	17.78
2390.00	16.89	AV	H	28.08	1.80	0.00	46.77	54.00	7.23
4824.00	39.05	PK	H	32.95	3.19	25.62	49.57	74.00	24.43
4824.00	33.02	AV	H	32.95	3.19	25.62	43.54	54.00	10.46
7236.00	36.01	PK	H	35.81	4.77	25.64	50.95	74.00	23.05
7236.00	23.68	AV	H	35.81	4.77	25.64	38.62	54.00	15.38
Middle Channel: 2437 MHz									
4874.00	40.02	PK	H	33.05	3.26	25.65	50.68	74.00	23.32
4874.00	33.79	AV	H	33.05	3.26	25.65	44.45	54.00	9.55
7311.00	36.08	PK	H	36.01	4.64	25.71	51.02	74.00	22.98
7311.00	23.79	AV	H	36.01	4.64	25.71	38.73	54.00	15.27
High Channel: 2462 MHz									
2483.50	28.21	PK	H	28.27	1.84	0.00	58.32	74.00	15.68
2483.50	15.25	AV	H	28.27	1.84	0.00	45.36	54.00	8.64
4924.00	42.32	PK	H	33.15	3.27	25.65	53.09	74.00	20.91
4924.00	37.43	AV	H	33.15	3.27	25.65	48.20	54.00	5.80
7386.00	35.88	PK	H	36.20	4.51	25.79	50.80	74.00	23.20
7386.00	23.54	AV	H	36.20	4.51	25.79	38.46	54.00	15.54

802.11b Mode, Chain 1:

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: 2412 MHz									
2390.00	26.02	PK	H	28.08	1.80	0.00	55.90	74.00	18.10
2390.00	15.89	AV	H	28.08	1.80	0.00	45.77	54.00	8.23
4824.00	36.44	PK	H	32.95	3.19	25.62	46.96	74.00	27.04
4824.00	23.91	AV	H	32.95	3.19	25.62	34.43	54.00	19.57
7236.00	36.05	PK	H	35.81	4.77	25.64	50.99	74.00	23.01
7236.00	23.74	AV	H	35.81	4.77	25.64	38.68	54.00	15.32
Middle Channel: 2437 MHz									
4874.00	36.78	PK	H	33.05	3.26	25.65	47.44	74.00	26.56
4874.00	24.58	AV	H	33.05	3.26	25.65	35.24	54.00	18.76
7311.00	36.21	PK	H	36.01	4.64	25.71	51.15	74.00	22.85
7311.00	24.12	AV	H	36.01	4.64	25.71	39.06	54.00	14.94
High Channel: 2462 MHz									
2483.50	28.32	PK	H	28.27	1.84	0.00	58.43	74.00	15.57
2483.50	15.19	AV	H	28.27	1.84	0.00	45.30	54.00	8.70
4924.00	37.58	PK	H	33.15	3.27	25.65	48.35	74.00	25.65
4924.00	25.12	AV	H	33.15	3.27	25.65	35.89	54.00	18.11
7386.00	36.33	PK	H	36.20	4.51	25.79	51.25	74.00	22.75
7386.00	24.10	AV	H	36.20	4.51	25.79	39.02	54.00	14.98

802.11g Mode, Chain 0:

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: 2412 MHz									
2390.00	36.31	PK	H	28.08	1.80	0.00	66.19	74.00	7.81
2390.00	22.56	AV	H	28.08	1.80	0.00	52.44	54.00	1.56
4824.00	36.01	PK	H	32.95	3.19	25.62	46.53	74.00	27.47
4824.00	27.35	AV	H	32.95	3.19	25.62	37.87	54.00	16.13
7236.00	35.95	PK	H	35.81	4.77	25.64	50.89	74.00	23.11
7236.00	24.89	AV	H	35.81	4.77	25.64	39.83	54.00	14.17
Middle Channel: 2437 MHz									
4874.00	36.05	PK	H	33.05	3.26	25.65	46.71	74.00	27.29
4874.00	27.33	AV	H	33.05	3.26	25.65	37.99	54.00	16.01
7311.00	35.67	PK	H	36.01	4.64	25.71	50.61	74.00	23.39
7311.00	24.30	AV	H	36.01	4.64	25.71	39.24	54.00	14.76
High Channel: 2462 MHz									
2483.50	38.52	PK	H	28.27	1.84	0.00	68.63	74.00	5.37
2483.50	22.06	AV	H	28.27	1.84	0.00	52.17	54.00	1.83
4924.00	40.94	PK	H	33.15	3.27	25.65	51.71	74.00	22.29
4924.00	28.81	AV	H	33.15	3.27	25.65	39.58	54.00	14.42
7386.00	35.66	PK	H	36.20	4.51	25.79	50.58	74.00	23.42
7386.00	24.22	AV	H	36.20	4.51	25.79	39.14	54.00	14.86

802.11g Mode, Chain 1

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: 2412 MHz									
2390.00	30.56	PK	H	28.08	1.80	0.00	60.44	74.00	13.56
2390.00	18.45	AV	H	28.08	1.80	0.00	48.33	54.00	5.67
4824.00	36.12	PK	H	32.95	3.19	25.62	46.64	74.00	27.36
4824.00	25.35	AV	H	32.95	3.19	25.62	35.87	54.00	18.13
7236.00	35.45	PK	H	35.81	4.77	25.64	50.39	74.00	23.61
7236.00	24.21	AV	H	35.81	4.77	25.64	39.15	54.00	14.85
Middle Channel: 2437 MHz									
4874.00	31.21	PK	H	33.05	3.26	25.65	41.87	74.00	32.13
4874.00	19.12	AV	H	33.05	3.26	25.65	29.78	54.00	24.22
7311.00	35.87	PK	H	36.01	4.64	25.71	50.81	74.00	23.19
7311.00	24.39	AV	H	36.01	4.64	25.71	39.33	54.00	14.67
High Channel: 2462 MHz									
2483.50	36.82	PK	H	28.27	1.84	0.00	66.93	74.00	7.07
2483.50	20.10	AV	H	28.27	1.84	0.00	50.21	54.00	3.79
4924.00	38.12	PK	H	33.15	3.27	25.65	48.89	74.00	25.11
4924.00	26.10	AV	H	33.15	3.27	25.65	36.87	54.00	17.13
7386.00	36.02	PK	H	36.20	4.51	25.79	50.94	74.00	23.06
7386.00	24.09	AV	H	36.20	4.51	25.79	39.01	54.00	14.99

802.11n ht20 Mode(MIMO was the worst):

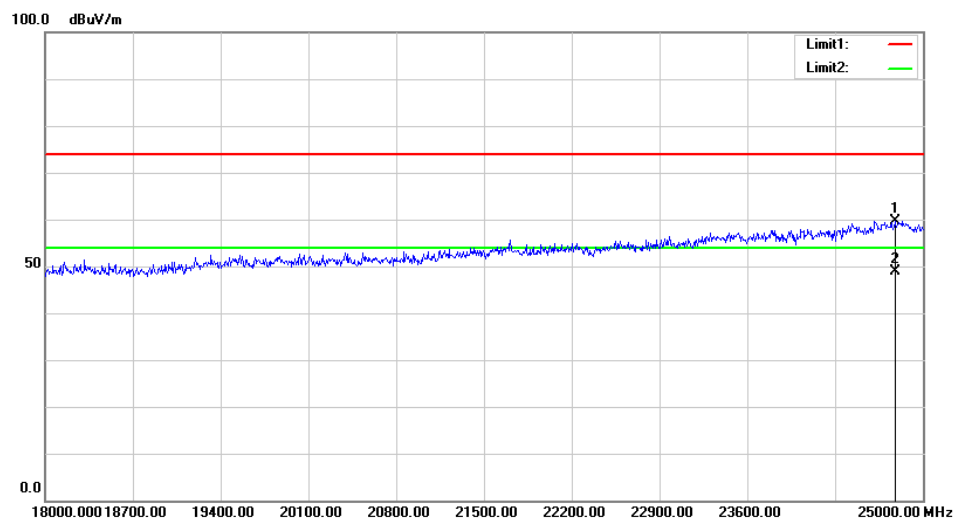
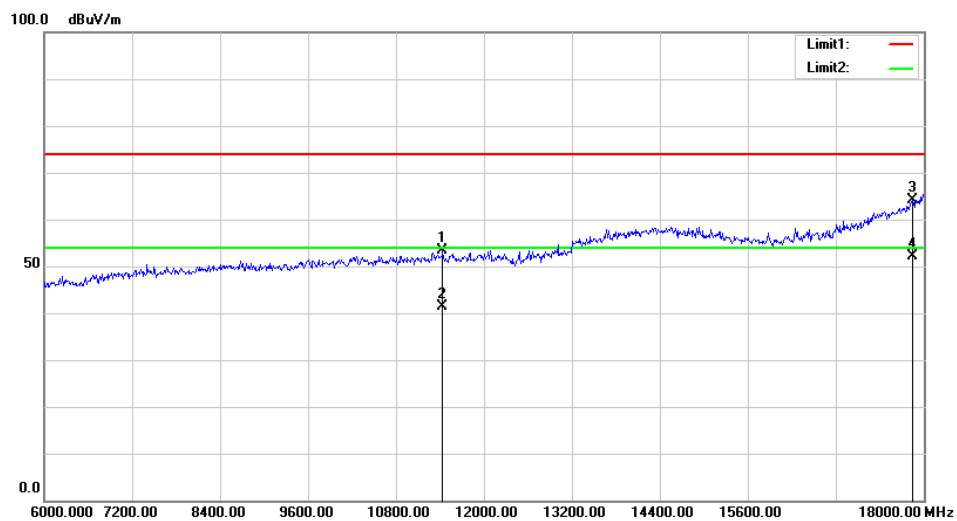
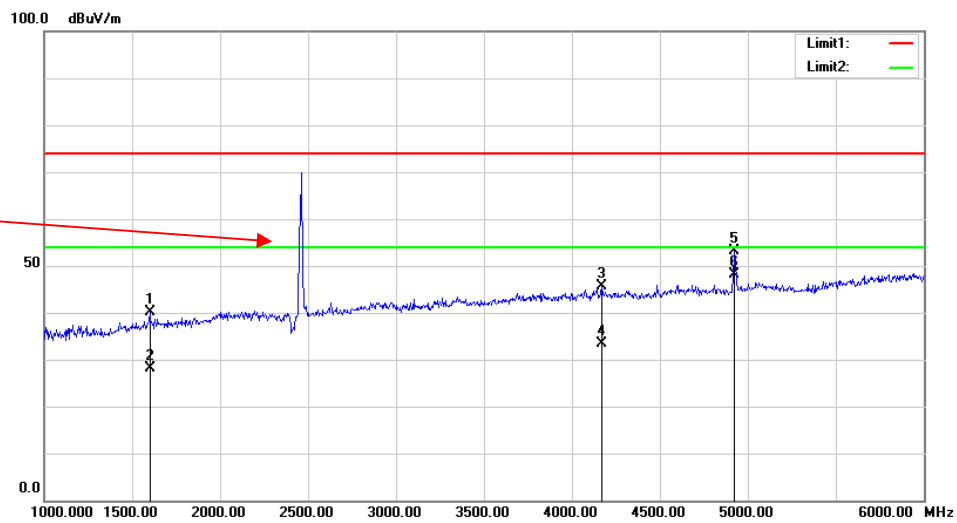
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2390.00	32.49	PK	H	28.08	1.80	0.00	62.37	74.00	11.63
2390.00	20.69	AV	H	28.08	1.80	0.00	50.57	54.00	3.43
4824.00	36.84	PK	H	32.95	3.19	25.62	47.36	74.00	26.64
4824.00	25.79	AV	H	32.95	3.19	25.62	36.31	54.00	17.69
7236.00	35.85	PK	H	35.81	4.77	25.64	50.79	74.00	23.21
7236.00	24.54	AV	H	35.81	4.77	25.64	39.48	54.00	14.52
Middle Channel: 2437 MHz									
4874.00	36.72	PK	H	33.05	3.26	25.65	47.38	74.00	26.62
4874.00	25.63	AV	H	33.05	3.26	25.65	36.29	54.00	17.71
7311.00	35.60	PK	H	36.01	4.64	25.71	50.54	74.00	23.46
7311.00	24.39	AV	H	36.01	4.64	25.71	39.33	54.00	14.67
High Channel: 2462 MHz									
2483.50	32.43	PK	H	28.27	1.84	0.00	62.54	74.00	11.46
2483.50	20.02	AV	H	28.27	1.84	0.00	50.13	54.00	3.87
4924.00	36.55	PK	H	33.15	3.27	25.65	47.32	74.00	26.68
4924.00	25.43	AV	H	33.15	3.27	25.65	36.20	54.00	17.80
7386.00	35.41	PK	H	36.20	4.51	25.79	50.33	74.00	23.67
7386.00	24.16	AV	H	36.20	4.51	25.79	39.08	54.00	14.92

802.11n ht40 Mode(MIMO was the worst):

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: 2422 MHz									
2390.00	30.15	PK	H	28.08	1.80	0.00	60.03	74.00	13.97
2390.00	20.06	AV	H	28.08	1.80	0.00	49.94	54.00	4.06
4844.00	36.39	PK	H	32.99	3.22	25.63	46.97	74.00	27.03
4844.00	25.61	AV	H	32.99	3.22	25.63	36.19	54.00	17.81
7266.00	35.24	PK	H	35.89	4.72	25.67	50.18	74.00	23.82
7266.00	25.34	AV	H	35.89	4.72	25.67	40.28	54.00	13.72
Middle Channel: 2437 MHz									
4874.00	36.32	PK	H	33.05	3.26	25.65	46.98	74.00	27.02
4874.00	25.54	AV	H	33.05	3.26	25.65	36.20	54.00	17.80
7311.00	35.18	PK	H	36.01	4.64	25.71	50.12	74.00	23.88
7311.00	25.25	AV	H	36.01	4.64	25.71	40.19	54.00	13.81
High Channel: 2452 MHz									
2483.50	29.28	PK	H	28.27	1.84	0.00	59.39	74.00	14.61
2483.50	19.90	AV	H	28.27	1.84	0.00	50.01	54.00	3.99
4904.00	36.27	PK	H	33.11	3.30	25.67	47.01	74.00	26.99
4904.00	25.38	AV	H	33.11	3.30	25.67	36.12	54.00	17.88
7356.00	35.20	PK	H	36.13	4.56	25.76	50.13	74.00	23.87
7356.00	25.29	AV	H	36.13	4.56	25.76	40.22	54.00	13.78

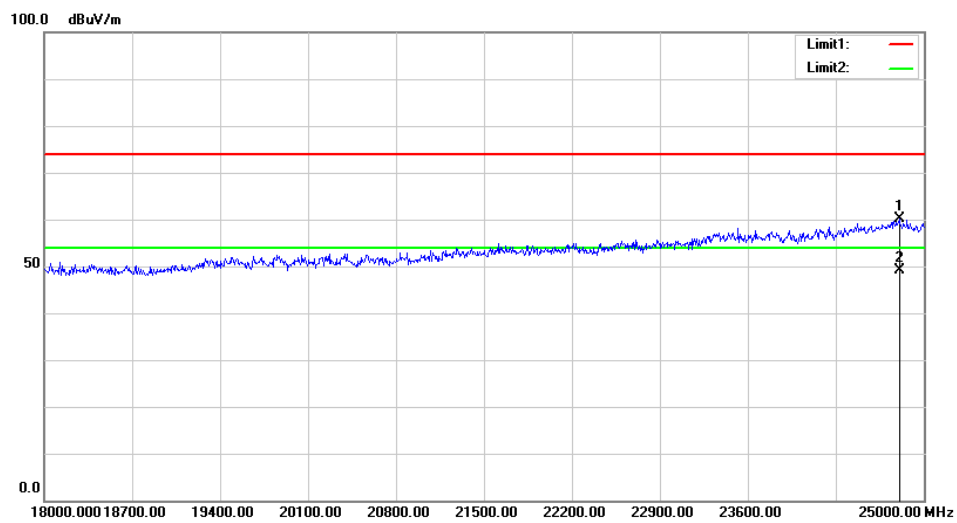
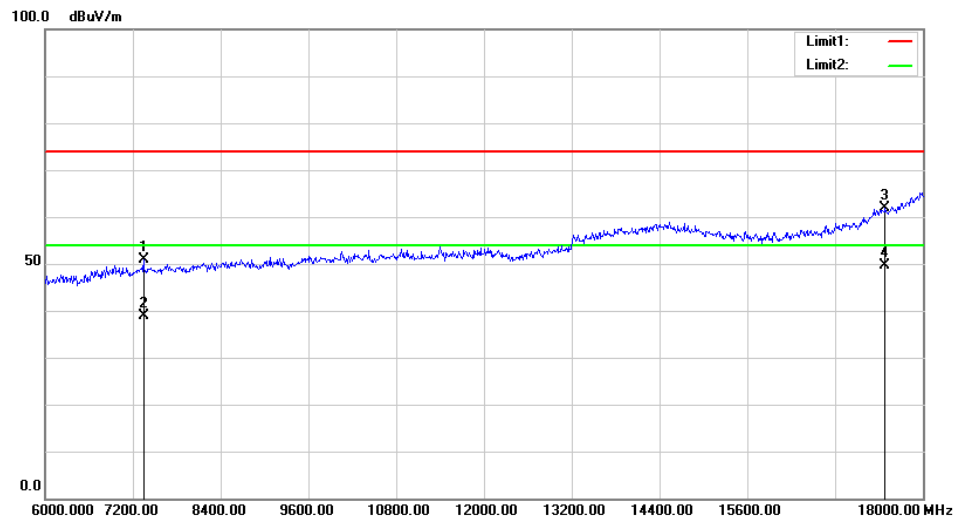
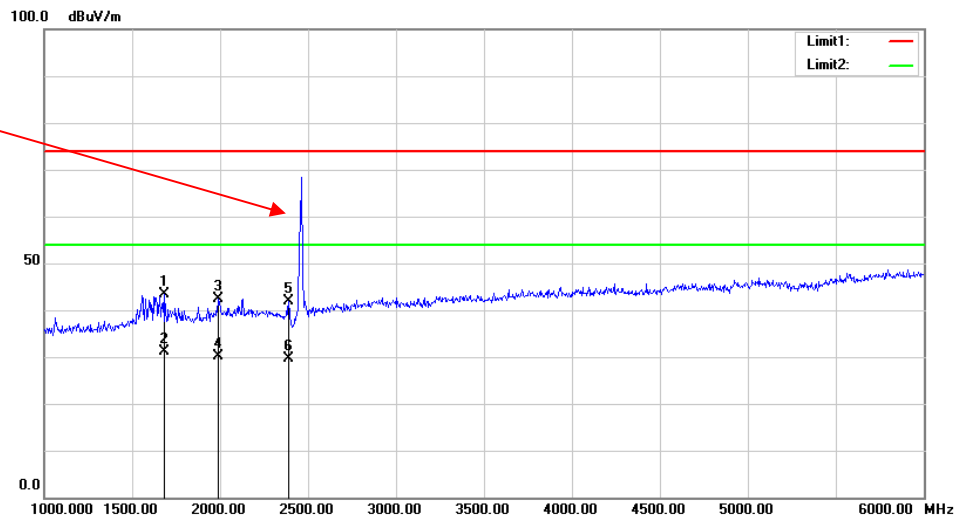
**Test plots(802.11b mode Chain 0 High channel was the worst)
Horizontal:**

Fundamental
Test with Band
Rejection Filter



Vertical:

Fundamental
Test with Band
Rejection Filter



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

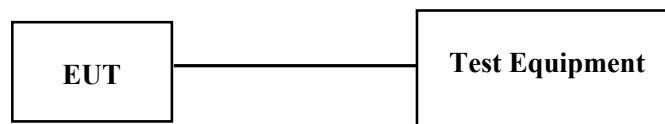
Applicable Standard

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.

Test Procedure

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- 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	FSU 26	200256	2020-01-04	2021-01-04
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each time	N/A
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	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

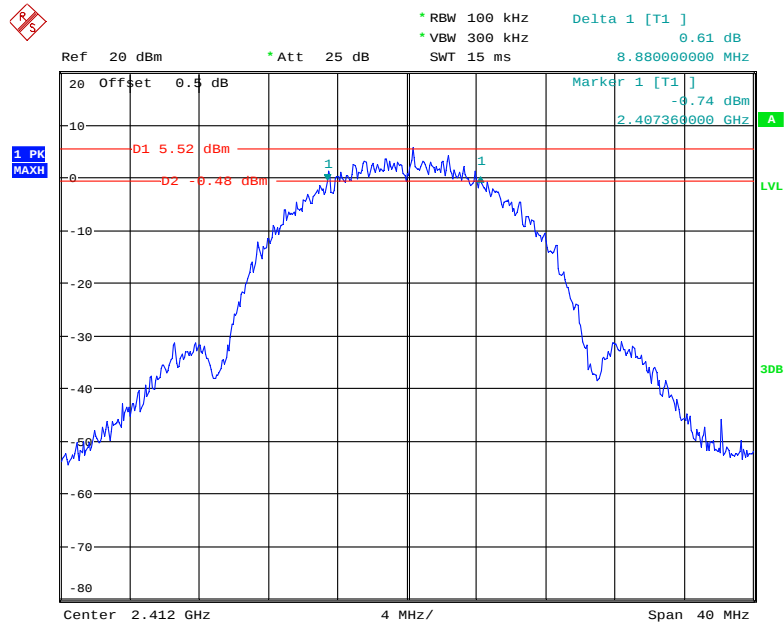
Temperature:	27.5°C
Relative Humidity:	52 %
ATM Pressure:	100.5kPa
Test by:	Lucy Lu
Test Date:	2020-05-08

Test Mode: Transmitting(test only performed at chain 0)

Test Result: Compliant. please refer to the following table and plots.

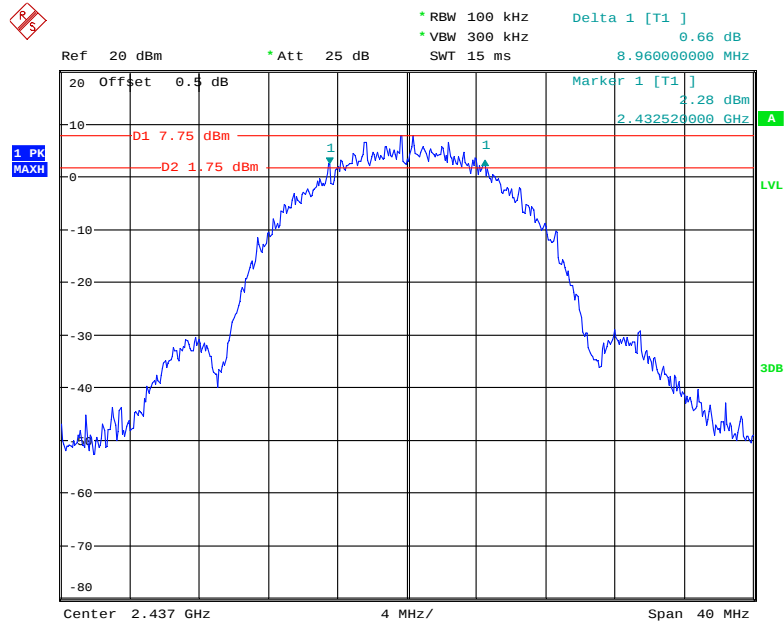
Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	8.880	≥ 0.5
	Middle	2437	8.960	≥ 0.5
	High	2462	9.040	≥ 0.5
802.11g	Low	2412	16.560	≥ 0.5
	Middle	2437	16.480	≥ 0.5
	High	2462	16.480	≥ 0.5
802.11n ht20	Low	2412	17.760	≥ 0.5
	Middle	2437	17.760	≥ 0.5
	High	2462	17.680	≥ 0.5
802.11n ht40	Low	2422	36.160	≥ 0.5
	Middle	2437	35.200	≥ 0.5
	High	2452	35.840	≥ 0.5

802.11b Low Channel



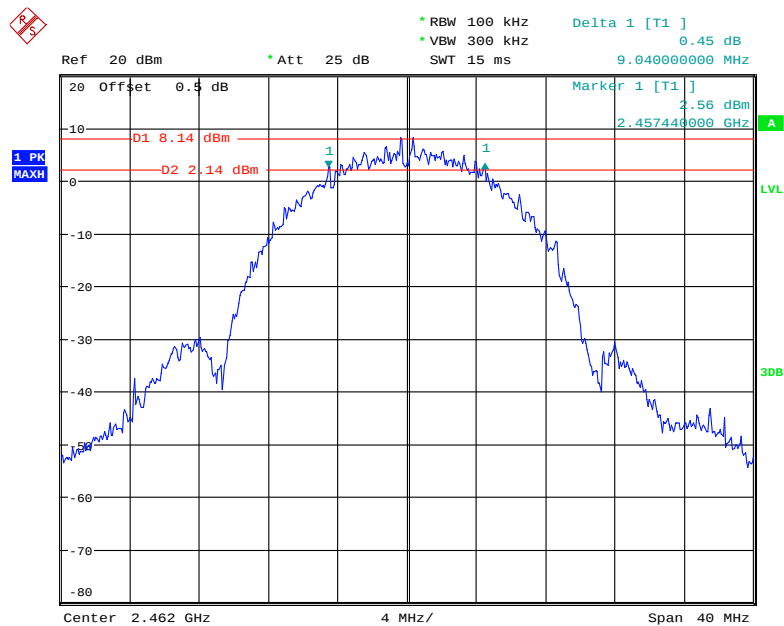
Date: 8.MAY.2020 16:46:37

802.11b Middle Channel



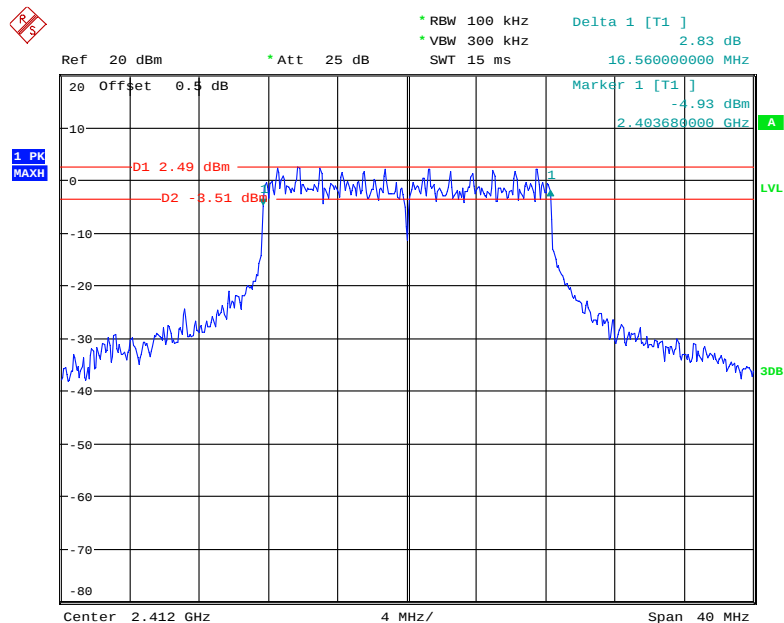
Date: 8.MAY.2020 16:48:02

802.11b High Channel



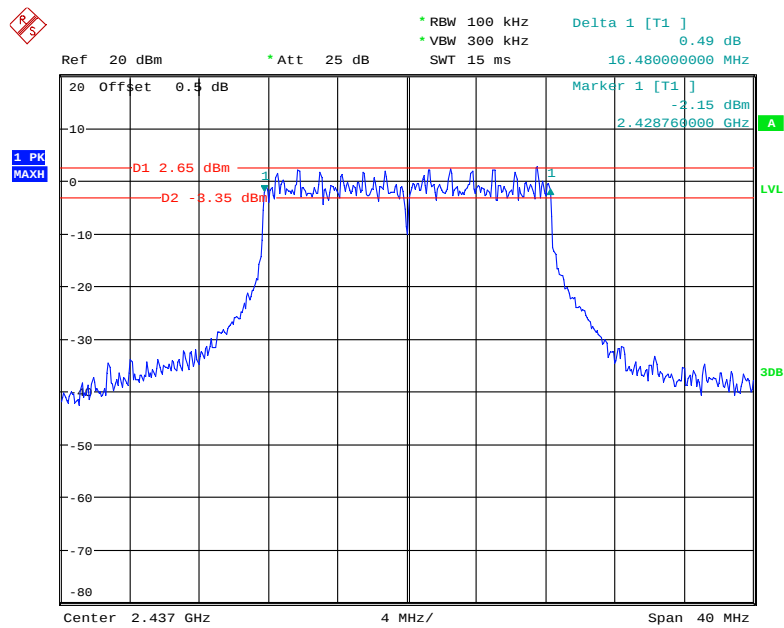
Date: 8.MAY.2020 16:49:03

802.11g Low Channel



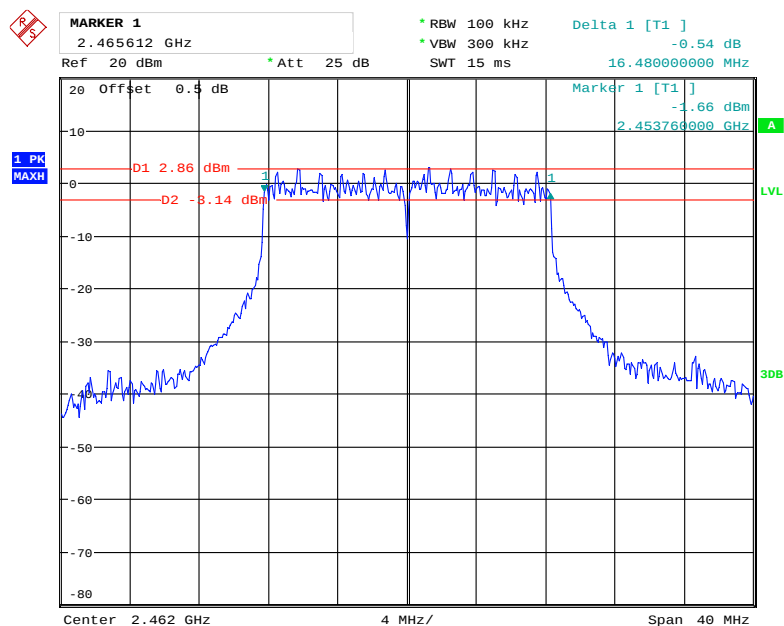
Date: 8.MAY.2020 16:44:44

802.11g Middle Channel



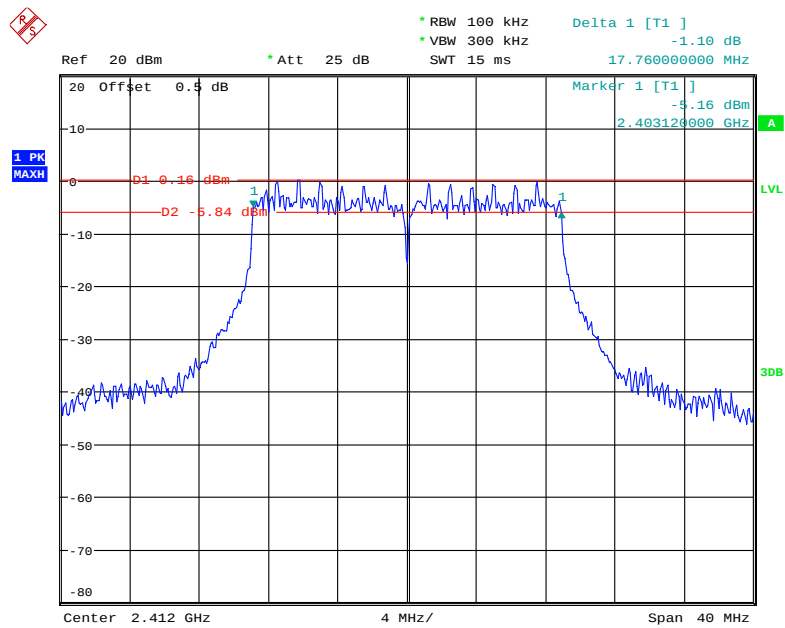
Date: 8.MAY.2020 16:42:57

802.11g High Channel



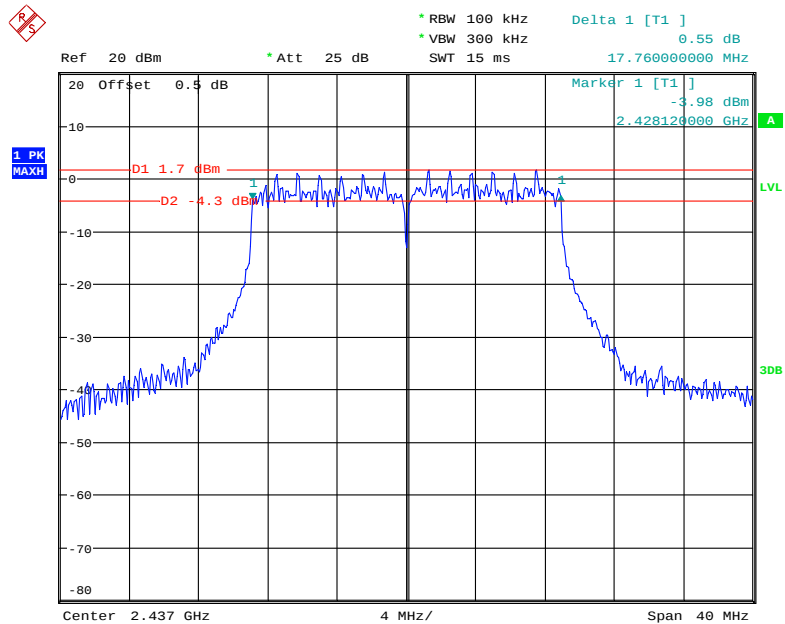
Date: 8.MAY.2020 16:41:32

802.11n ht20 Low Channel



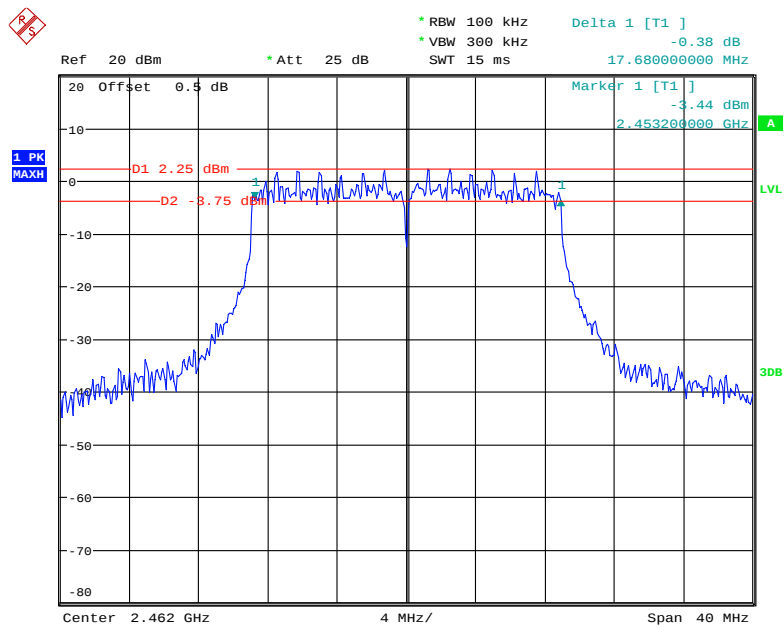
Date: 8.MAY.2020 16:29:17

802.11n ht20 Middle Channel



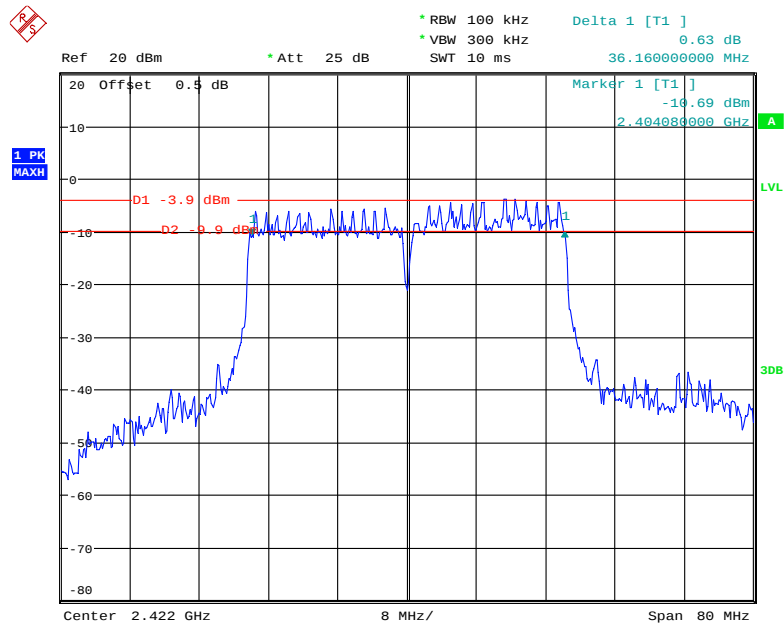
Date: 8.MAY.2020 16:33:08

802.11n ht20 High Channel



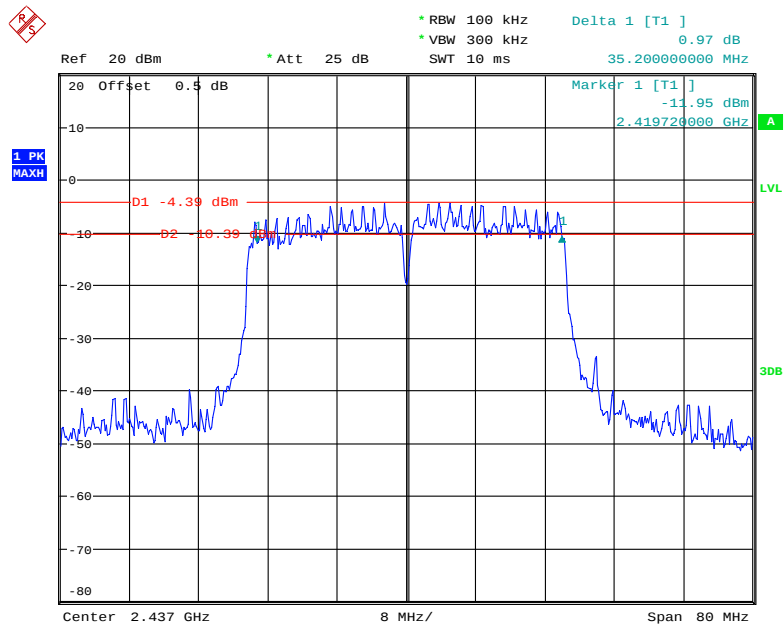
Date: 8.MAY.2020 16:38:34

802.11n ht40 Low Channel



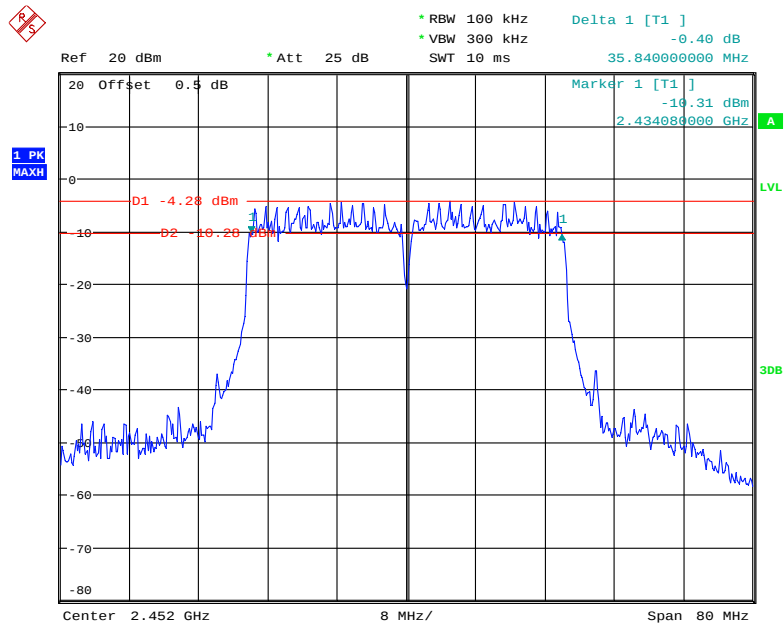
Date: 8.MAY.2020 16:12:54

802.11n ht40 Middle Channel



Date: 8.MAY.2020 16:10:58

802.11n ht40 High Channel



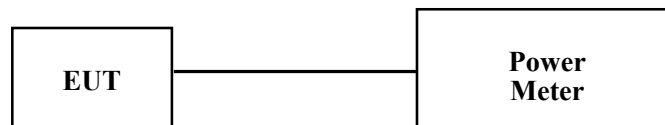
Date: 8.MAY.2020 16:06:50

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	USB Wideband Power Sensor	U2022XA	MY5417006	2019-09-23	2020-09-23
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each time	N/A
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	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:	27.5°C
Relative Humidity:	52 %
ATM Pressure:	100.5kPa
Test by:	Lucy Lu
Test Date:	2020-05-08

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table.

Test mode	Channel	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)			Limit (dBm)
			Chain 0	Chain 1	Total	
802.11b	Low	2412	18.13	13.71	/	30
	Middle	2437	18.25	13.88	/	30
	High	2462	18.27	11.43	/	30
802.11g	Low	2412	20.71	13.64	/	30
	Middle	2437	22.20	13.73	/	30
	High	2462	22.27	11.05	/	30
802.11n ht20	Low	2412	19.77	13.46	20.68	30
	Middle	2437	20.62	13.97	21.47	30
	High	2462	20.92	11.59	21.4	30
802.11n ht40	Low	2422	19.13	13.76	20.24	30
	Middle	2437	19.08	13.99	20.25	30
	High	2452	19.26	13.15	20.21	30

Test mode	Channel	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			Limit (dBm)
			Chain 0	Chain 1	Total	
802.11b	Low	2412	15.87	7.56	/	30
	Middle	2437	15.89	8.18	/	30
	High	2462	16.18	6.15	/	30
802.11g	Low	2412	13.12	6.97	/	30
	Middle	2437	13.69	7.64	/	30
	High	2462	13.83	5.62	/	30
802.11n ht20	Low	2412	11.59	7.19	12.94	30
	Middle	2437	12.39	7.51	13.61	30
	High	2462	12.52	5.73	13.35	30
802.11n ht40	Low	2422	9.30	6.63	11.18	30
	Middle	2437	8.92	7.74	11.38	30
	High	2452	9.51	5.91	11.08	30

Note: the antenna gain is 1dBi

FCC §15.247(d)– 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)).

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
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each time	N/A
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	Each time	N/A

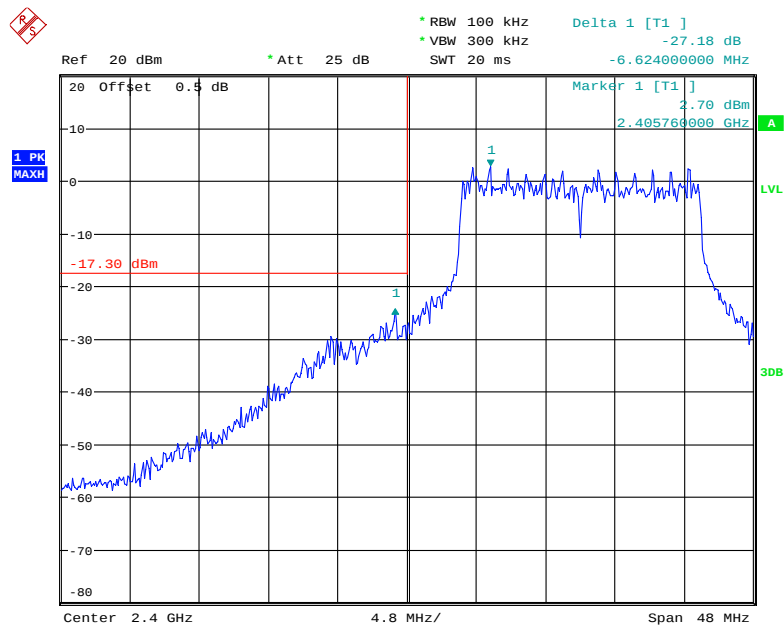
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

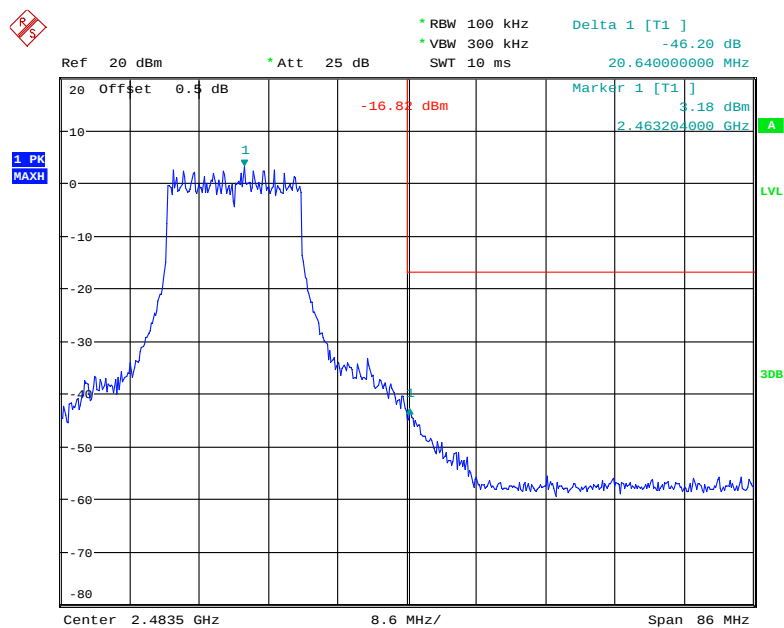
Temperature:	26~27.5°C
Relative Humidity:	52~72%
ATM Pressure:	99.3~100.9kPa
Test by:	Lucy Lu
Test Date:	2020-05-08~2020-05-18

802.11g: Band Edge, Left Side



Date: 8.MAY.2020 16:45:34

802.11g: Band Edge, Right Side



Date: 8.MAY.2020 16:42:22

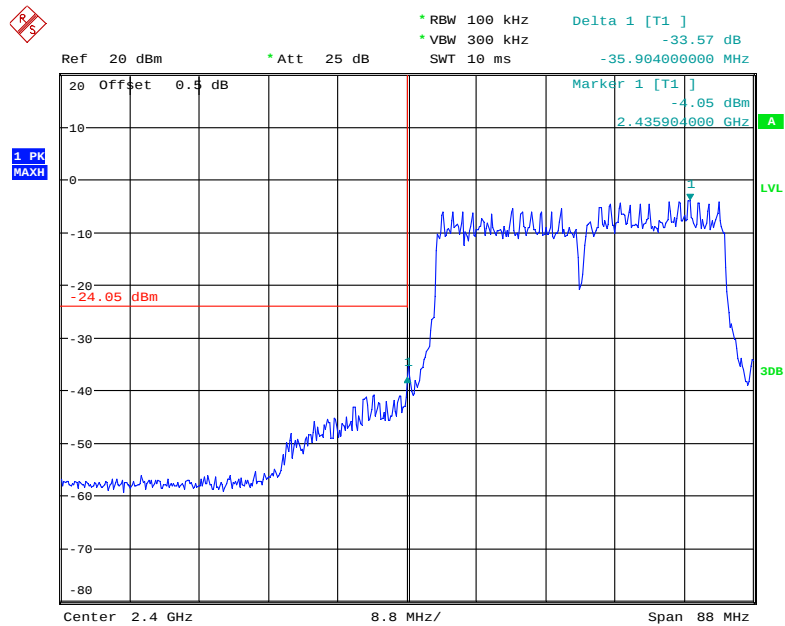


A



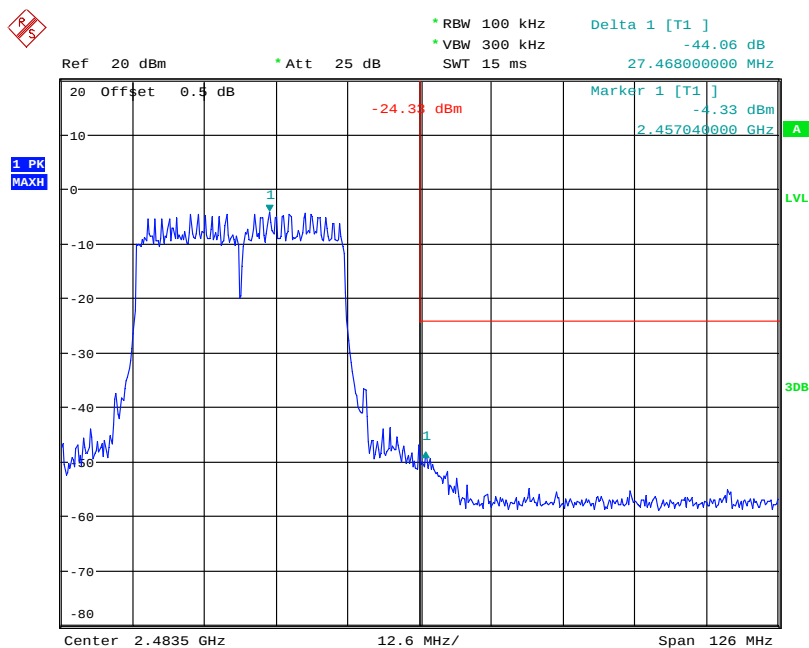
A

802.11n ht40: Band Edge, Left Side



Date: 8.MAY.2020 16:14:26

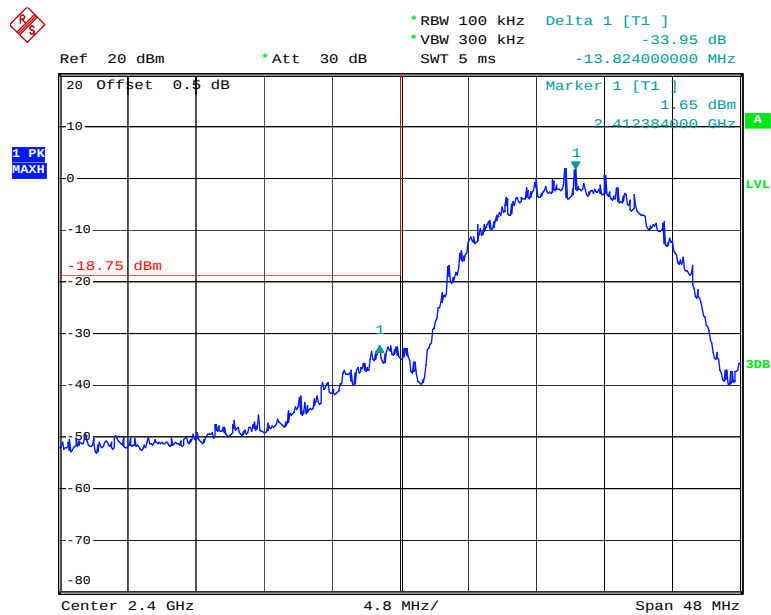
802.11n ht40 Band Edge, Right Side



Date: 8.MAY.2020 16:08:21

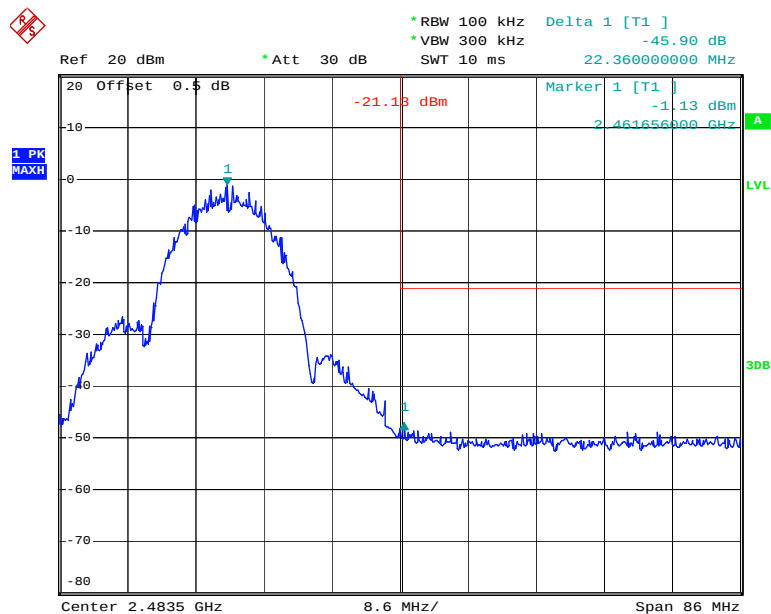
Chain 1

802.11b: Band Edge, Left Side

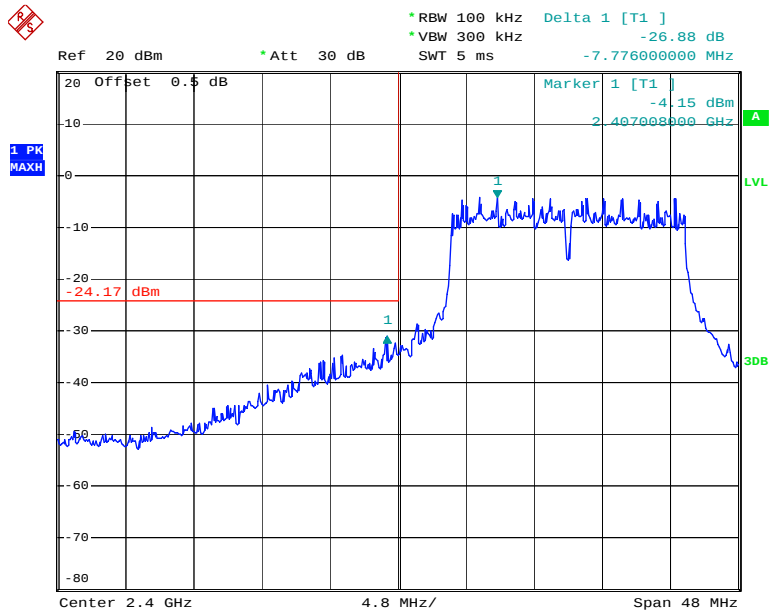


Date: 18.MAY.2020 19:03:51

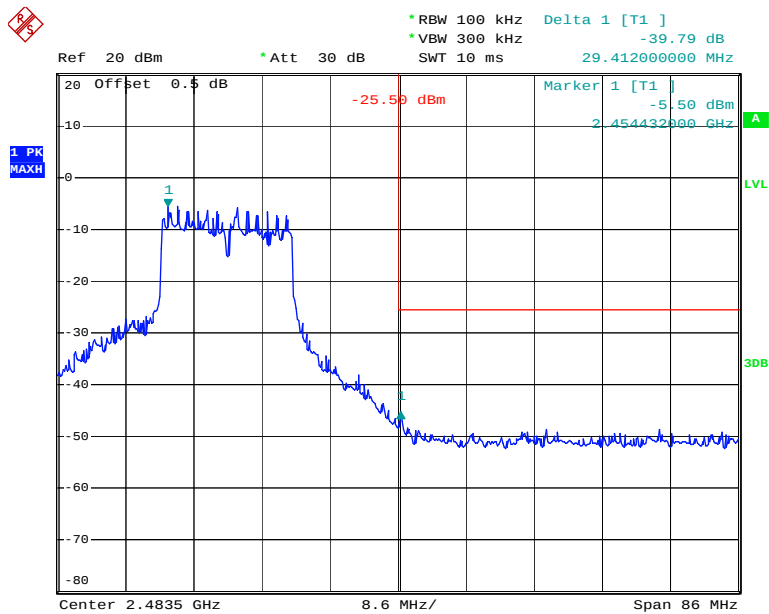
802.11b: Band Edge, Right Side



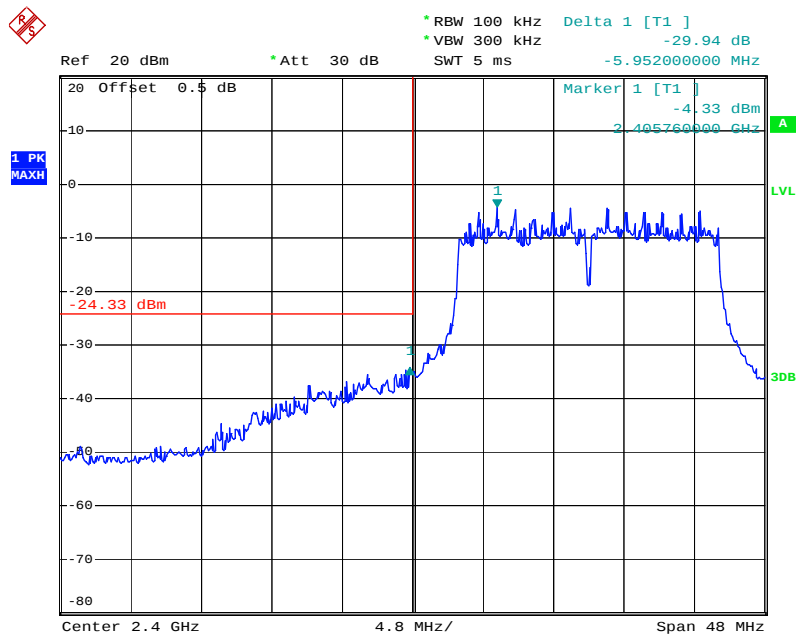
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802.11g: Band Edge, Left Side

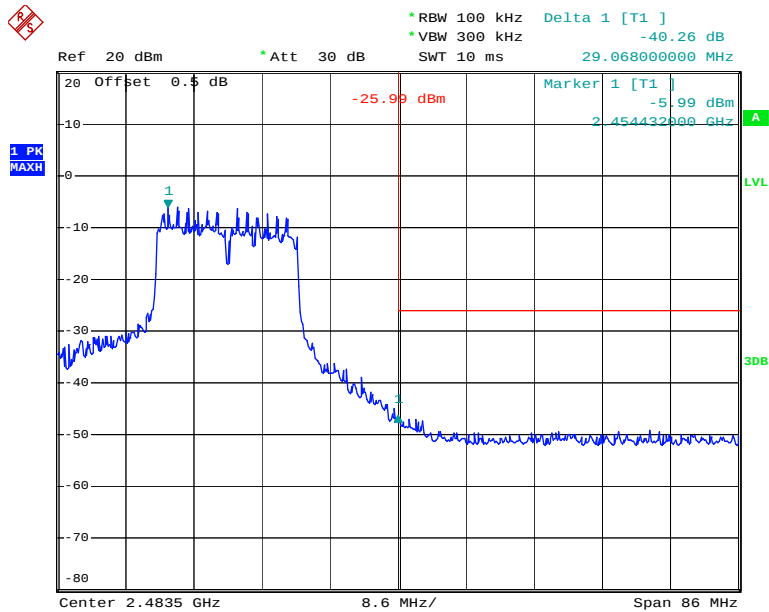
Date: 18.MAY.2020 20:11:02

802.11g: Band Edge, Right Side

Date: 18.MAY.2020 20:09:01

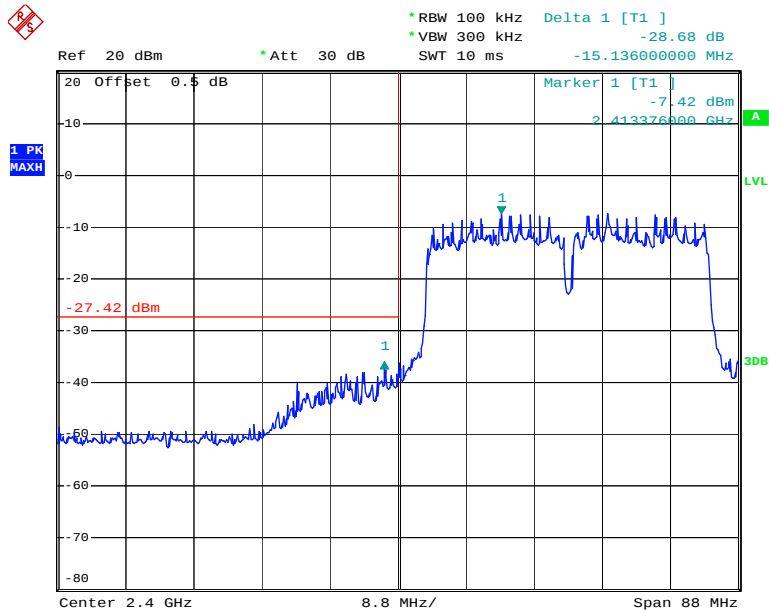
802.11n ht20 Band Edge, Left Side

Date: 18.MAY.2020 20:17:40

802.11n ht20 Band Edge, Right Side

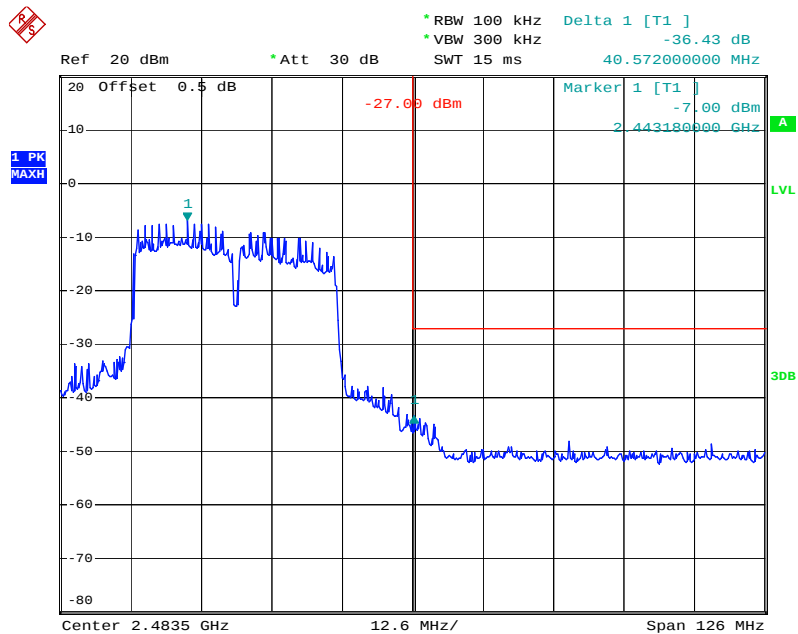
Date: 18.MAY.2020 20:18:58

802.11n ht40: Band Edge, Left Side



Date: 18.MAY.2020 20:26:24

802.11n ht40 Band Edge, Right Side



Date: 18.MAY.2020 20:34:35

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	2020-01-04	2021-01-04
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each time	N/A
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	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:	26~27.5°C
Relative Humidity:	52~72%
ATM Pressure:	99.3~100.9kPa
Test by:	Lucy Lu
Test Date:	2020-05-08~2020-05-18

Test Result: Compliance

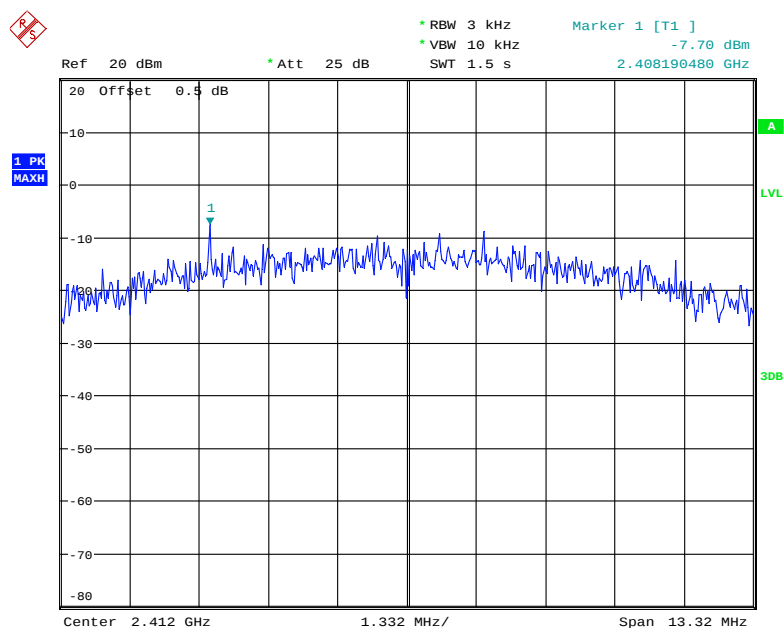
Test Mode: Transmitting

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

Test mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)
			Chain 0	Chain 1	Total	
802.11b	Low	2412	-7.70	-13.30	/	≤8
	Middle	2437	-6.78	-13.22	/	≤8
	High	2462	-6.53	-15.56	/	≤8
802.11g	Low	2412	-14.18	-20.31	/	≤8
	Middle	2437	-14.12	-20.23	/	≤8
	High	2462	-13.60	-22.13	/	≤8
802.11n ht20	Low	2412	-15.59	-20.33	-14.33	≤8
	Middle	2437	-13.40	-20.13	-12.56	≤8
	High	2462	-13.69	-22.10	-13.1	≤8
802.11n ht40	Low	2422	-18.69	-23.20	-17.37	≤8
	Middle	2437	-20.35	-22.70	-18.36	≤8
	High	2452	-19.59	-22.72	-17.87	≤8

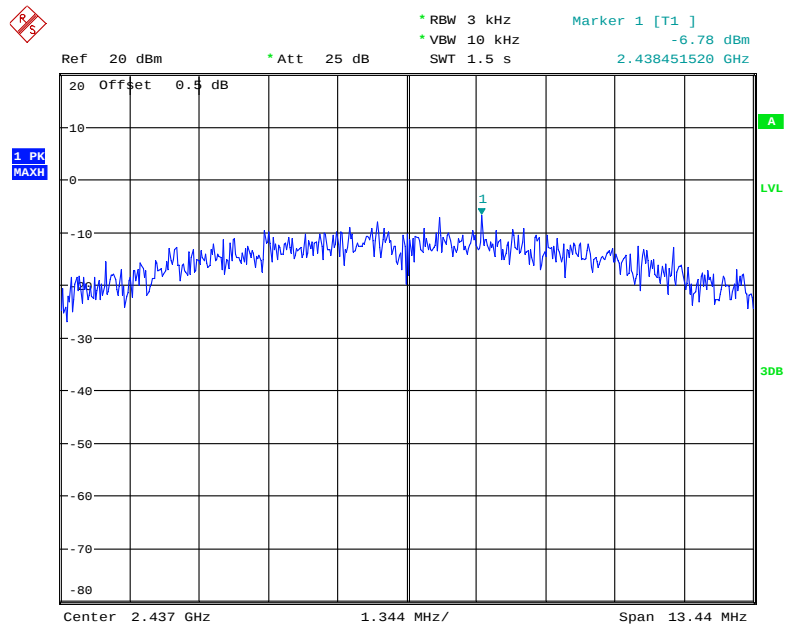
Chain 0

Power Spectral Density, 802.11b Low Channel



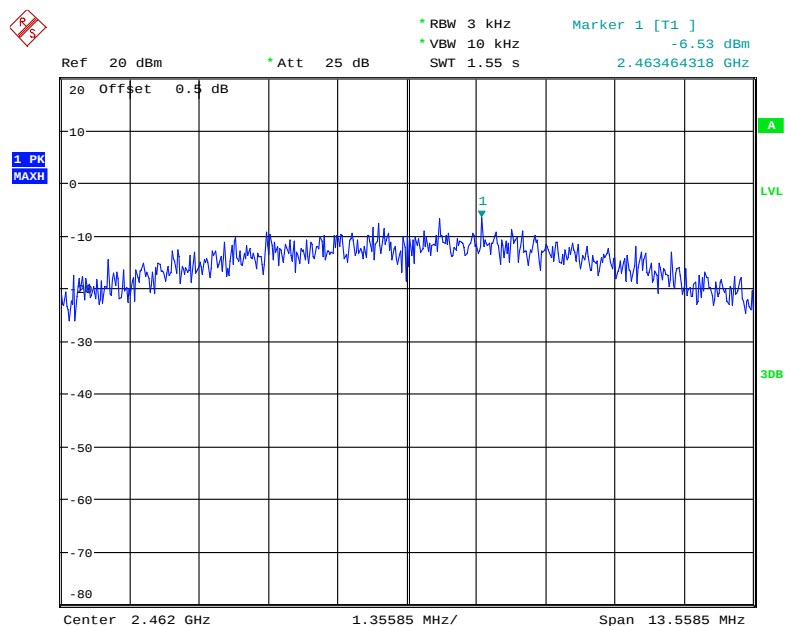
Date: 8.MAY.2020 17:05:30

Power Spectral Density, 802.11b Middle Channel



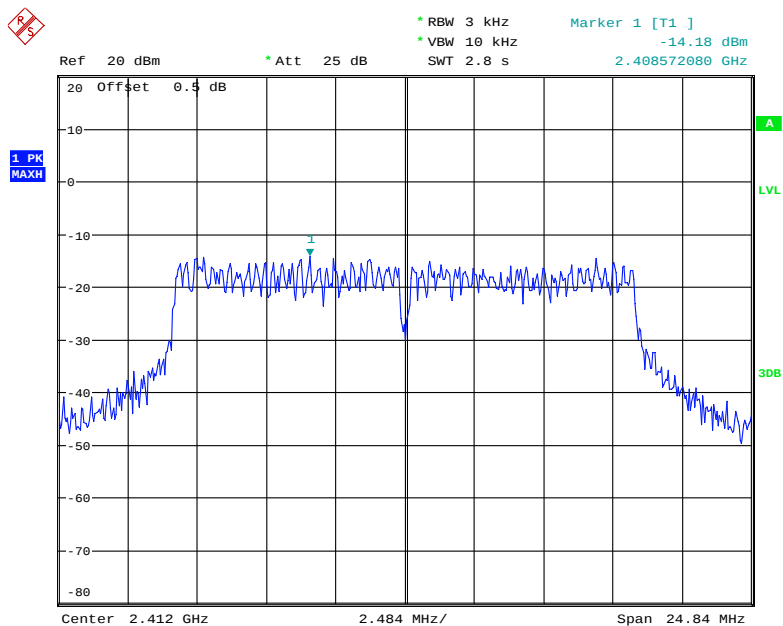
Date: 8.MAY.2020 16:48:31

Power Spectral Density, 802.11b High Channel



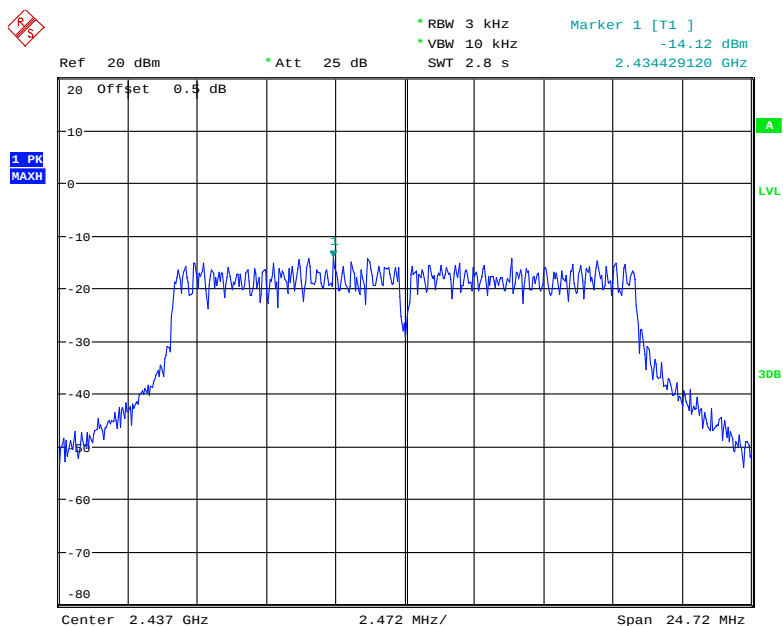
Date: 8.MAY.2020 16:49:35

Power Spectral Density, 802.11g Low Channel



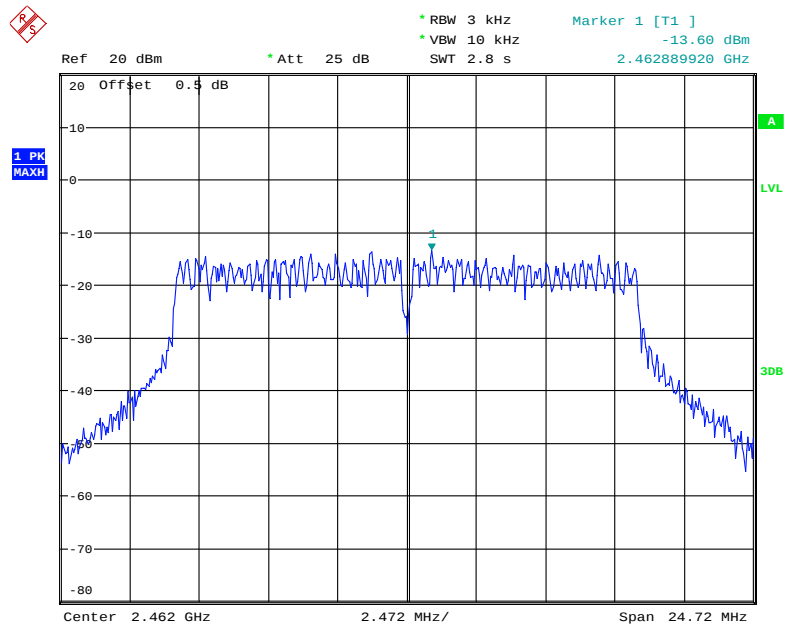
Date: 8.MAY.2020 16:45:21

Power Spectral Density, 802.11g Middle Channel



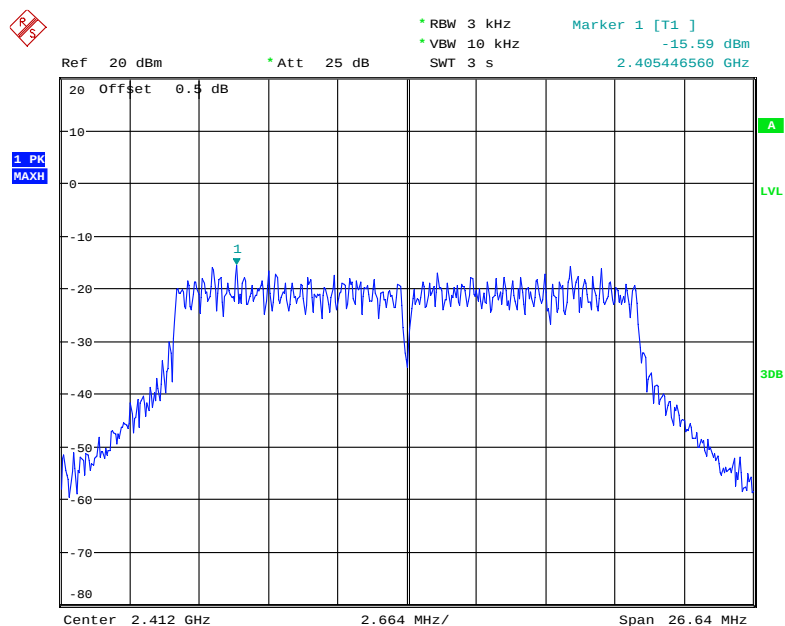
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Power Spectral Density, 802.11g High Channel



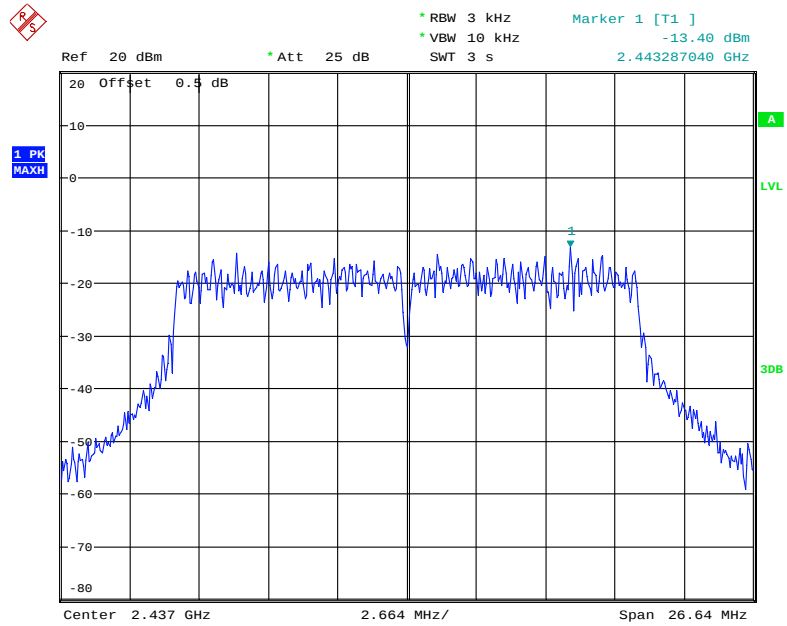
Date: 8.MAY.2020 16:42:09

Power Spectral Density, 802.11n ht20 Low Channel



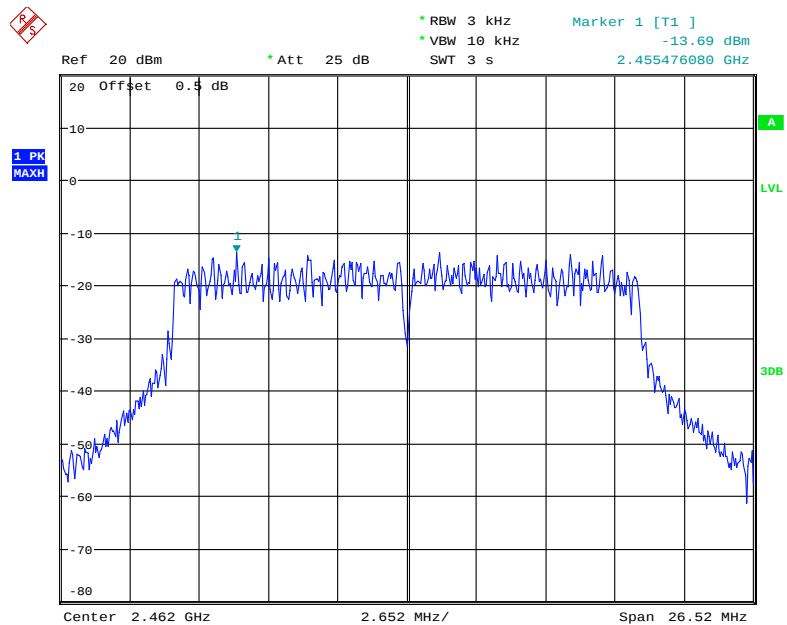
Date: 8.MAY.2020 16:29:55

Power Spectral Density, 802.11n ht20 Middle Channel



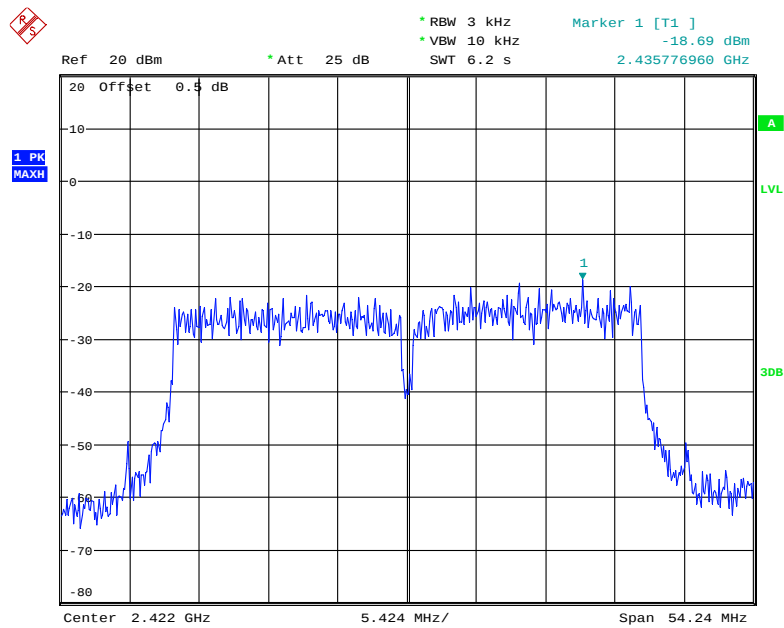
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Power Spectral Density, 802.11n ht20 High Channel



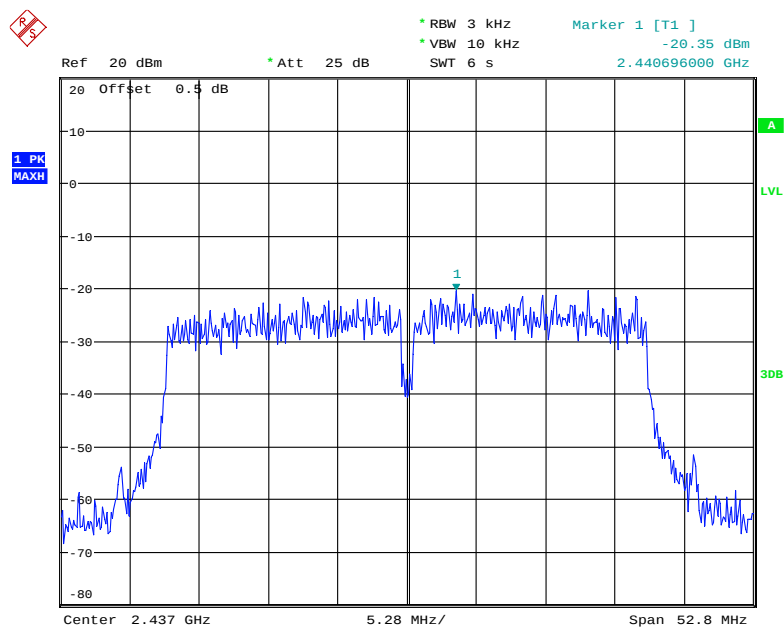
Date: 8.MAY.2020 16:39:13

Power Spectral Density, 802.11n ht40 Low Channel



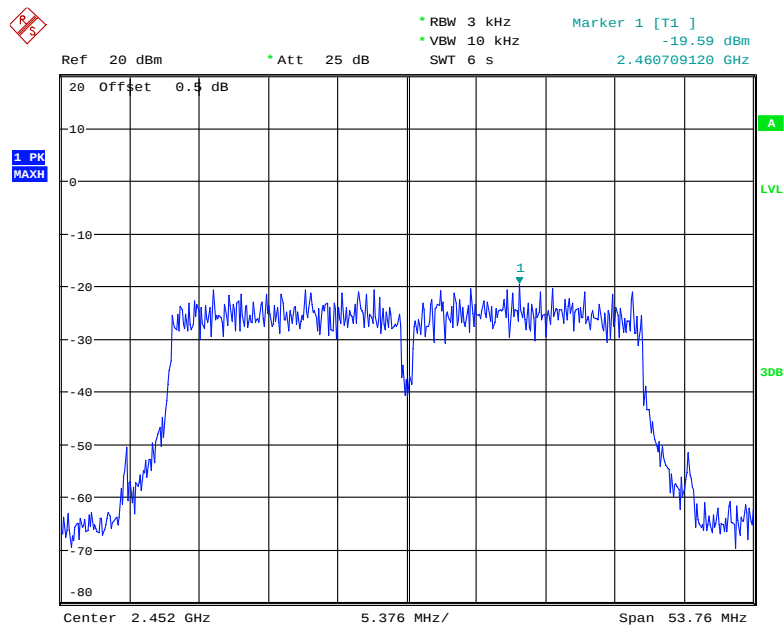
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Power Spectral Density, 802.11n ht40 Middle Channel



Date: 8.MAY.2020 16:11:56

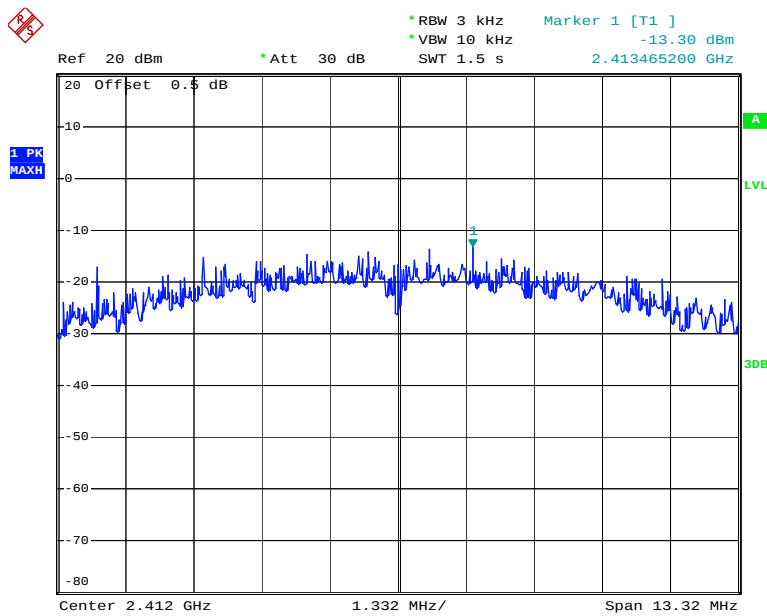
Power Spectral Density, 802.11n ht40 High Channel



Date: 8.MAY.2020 16:08:09

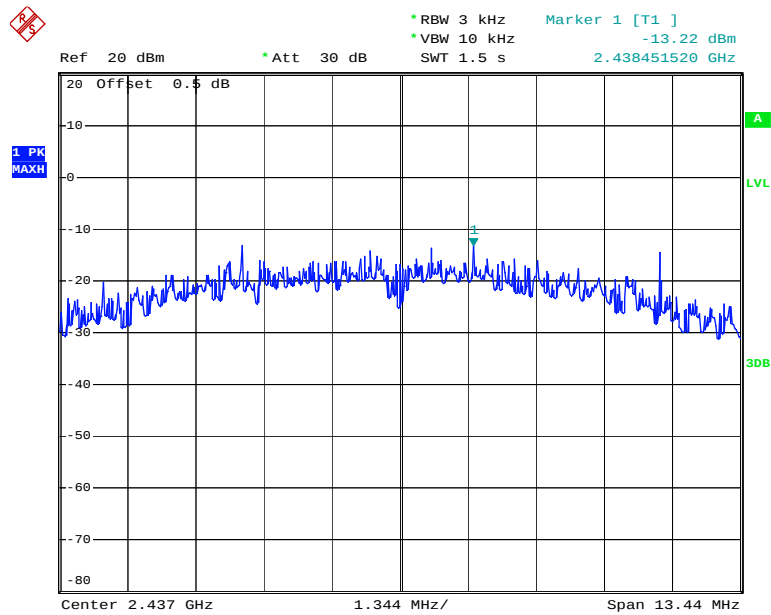
Chain 1

Power Spectral Density, 802.11b Low Channel



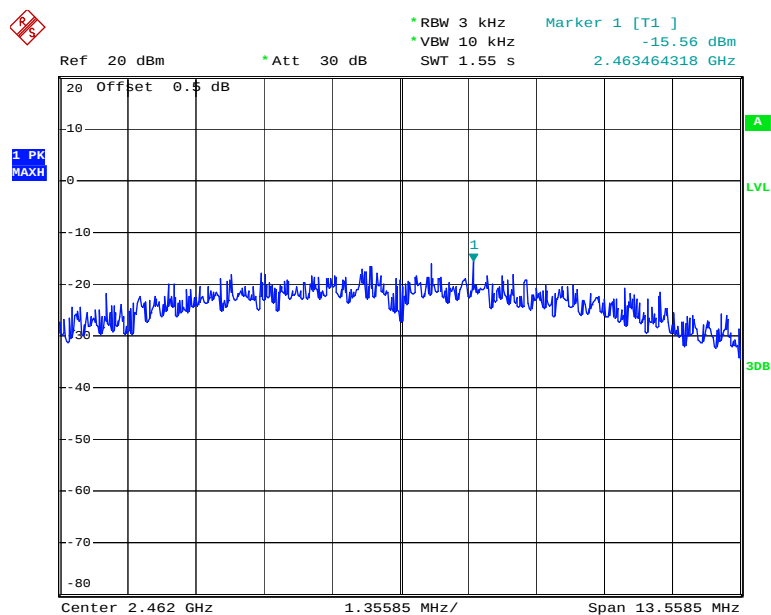
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Power Spectral Density, 802.11b Middle Channel



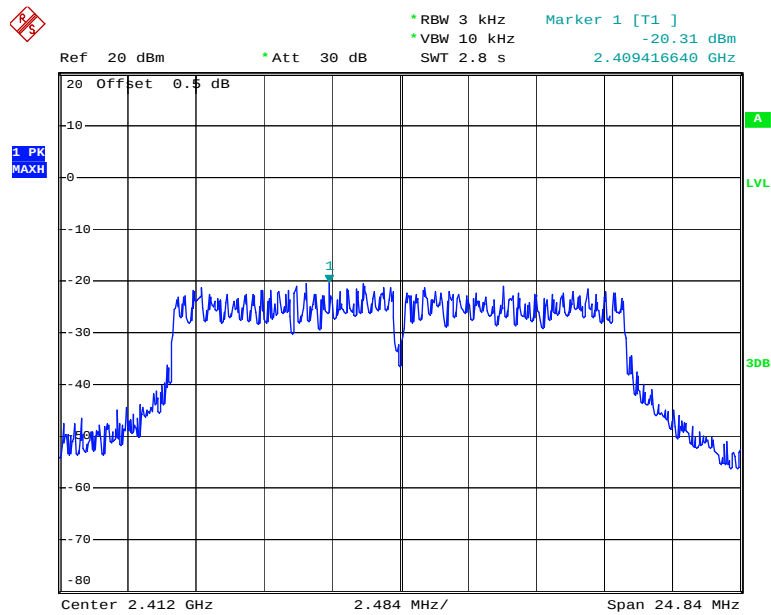
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Power Spectral Density, 802.11b High Channel



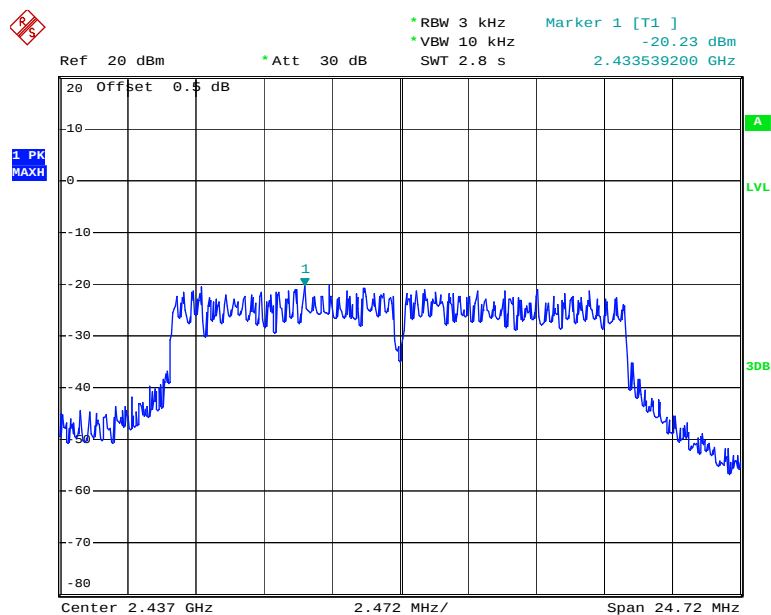
Date: 18.MAY.2020 19:51:55

Power Spectral Density, 802.11g Low Channel



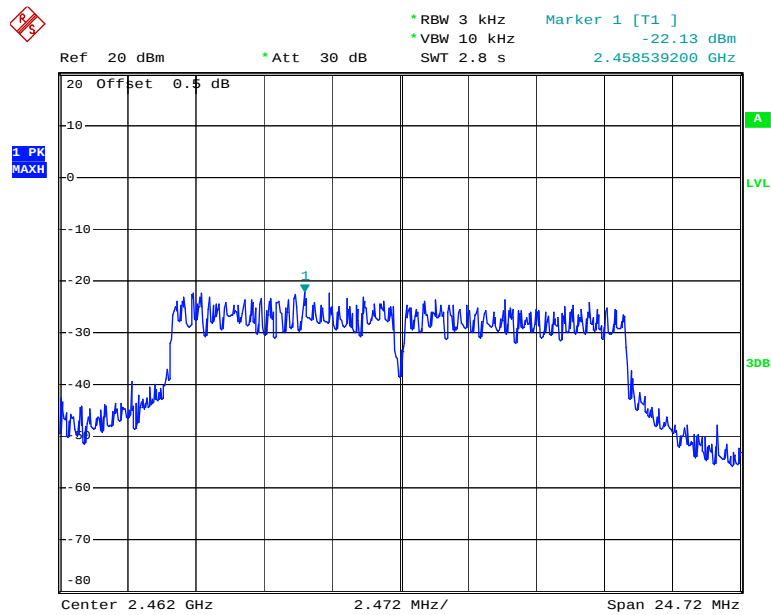
Date: 18.MAY.2020 20:10:49

Power Spectral Density, 802.11g Middle Channel



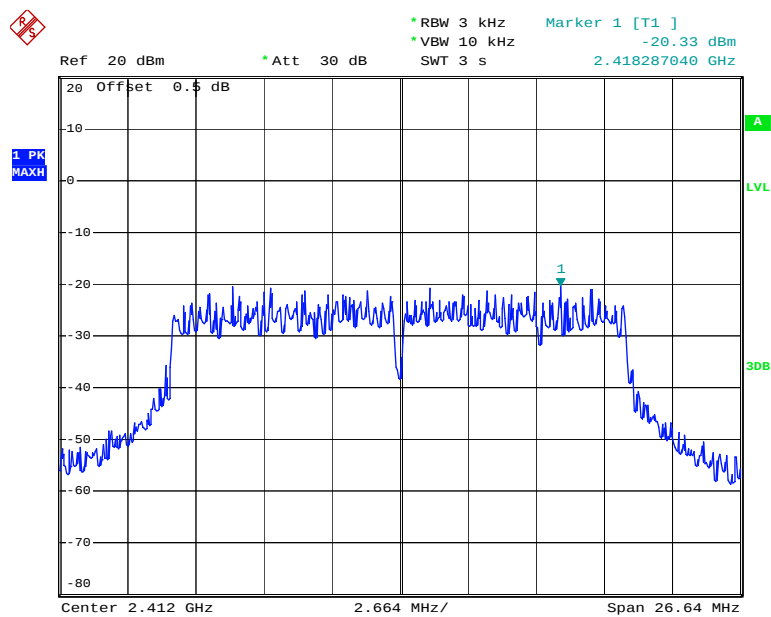
Date: 18.MAY.2020 20:11:57

Power Spectral Density, 802.11g High Channel

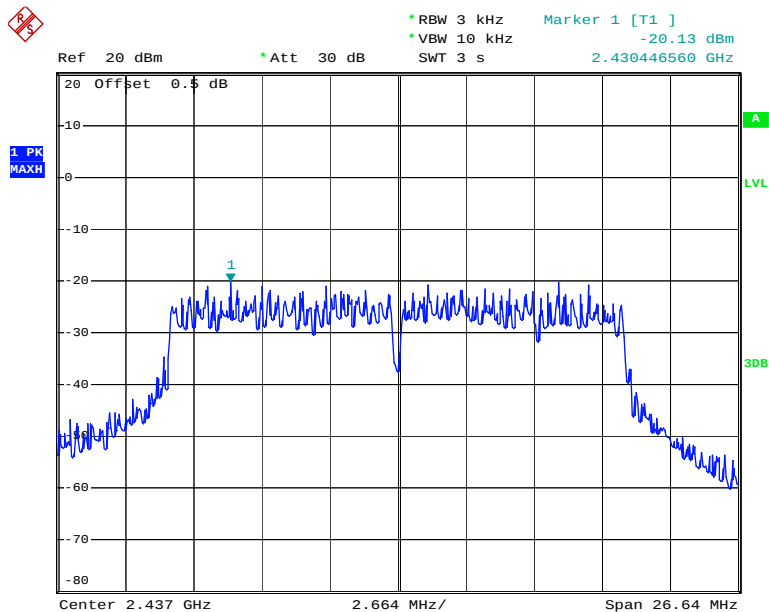


Date: 18.MAY.2020 20:08:49

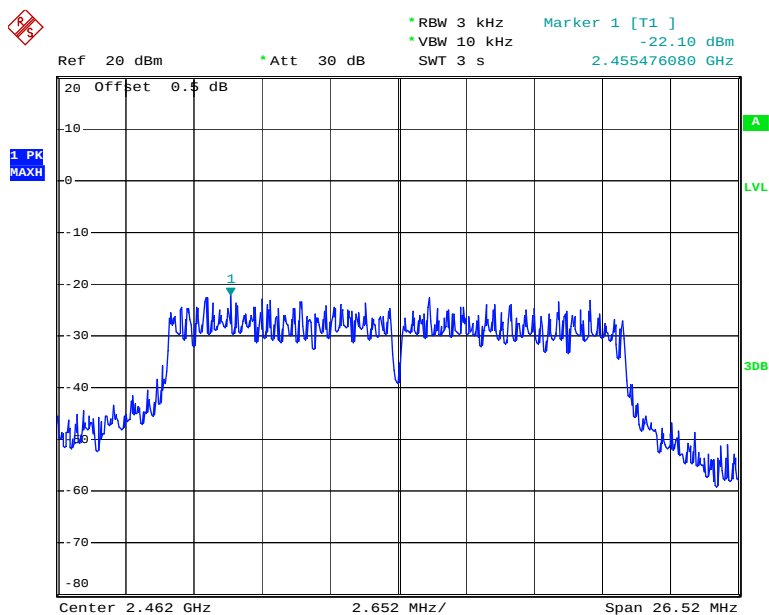
Power Spectral Density, 802.11n ht20 Low Channel



Date: 18.MAY.2020 20:17:27

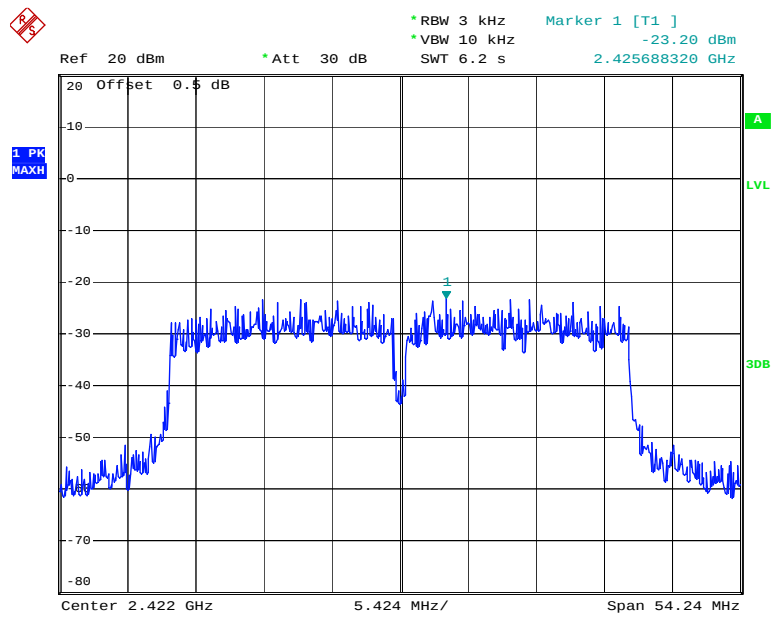
Power Spectral Density, 802.11n ht20 Middle Channel

Date: 18.MAY.2020 20:16:01

Power Spectral Density, 802.11n ht20 High Channel

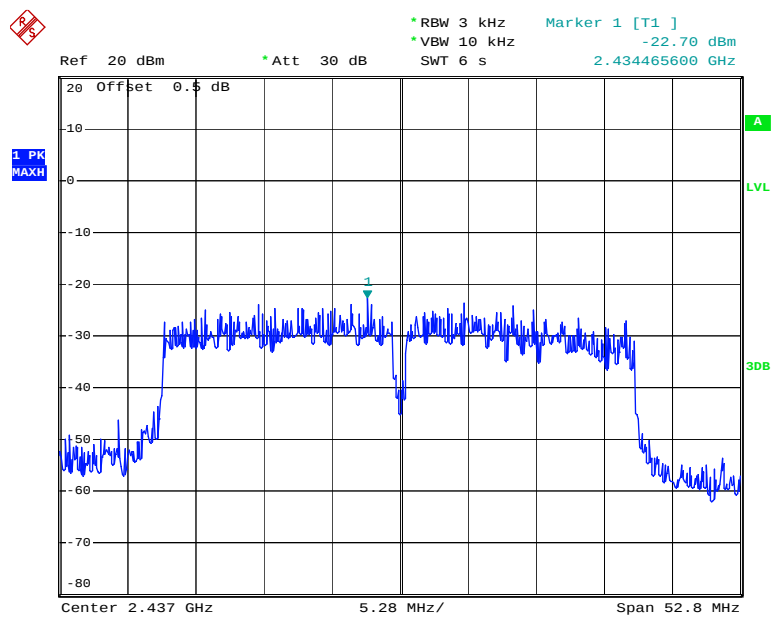
Date: 18.MAY.2020 20:18:46

Power Spectral Density, 802.11n ht40 Low Channel



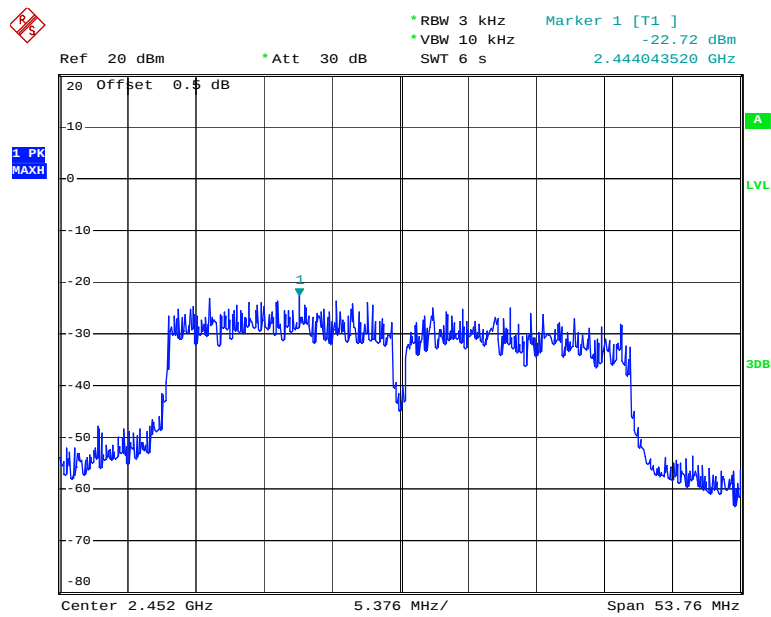
Date: 18.MAY.2020 20:26:11

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 18.MAY.2020 20:28:18

Power Spectral Density, 802.11n ht40 High Channel



Date: 18.MAY.2020 20:34:23

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