

FCC PART 15.247

TEST REPORT

For

Krell Precision (Yang Zhou)Co.,Ltd.

No.28,XingYang Road, Development Zone,YangZhou,JiangSu,China

FCC ID: 2ATCD-SMARTMAT

Report Type: Original Report	Product Type: SmartMat (Wi-Fi weighting scale)
Test Engineer: Max Min	<i>Max Min</i>
Report Number: RKSA190408001-00B	
Report Date: 2019-06-06	
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GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant	Krell Precision (Yang Zhou)Co.,Ltd.
Tested Model	SM-W42
Series Model	SM-W32
Difference	Model name and size
Product Type	SmartMat (Wi-Fi weighting scale)
Dimension	SM-W42: 300mm(L)* 200mm(W)* 29.85mm(H) SM-W32: 400mm(L)* 300mm(W)* 29.85mm(H)
Power Supply	Dry cell 4 AA3 Batteries and 6V AC adapter also connectable

** All measurement and test data in this report was gathered from production sample serial number:20190408001.
(Assigned by BACL, Kunshan).The EUT supplied by the applicant was received on 2019-04-08.*

Objective

This report is prepared on behalf of Krell Precision (Yang Zhou)Co.,Ltd. in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communications Commission rules.

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

Related Submittal(s)/Grant(s)

No related submittal/grant.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Test channel list is as below:

For 802.11b, 802.11g and 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11;

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	/	/

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

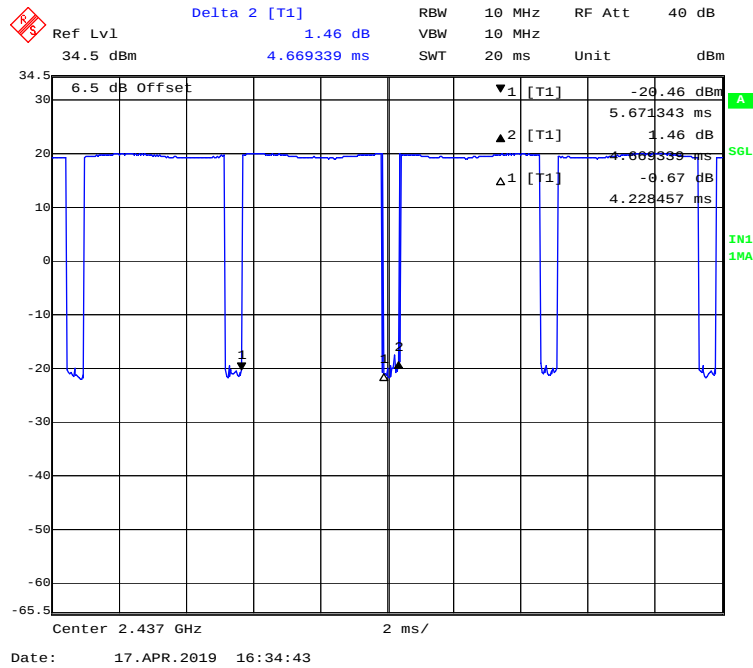
RF test tool: espRFTool

Pre-scan with all the data rates, and the worst case was performed as below:

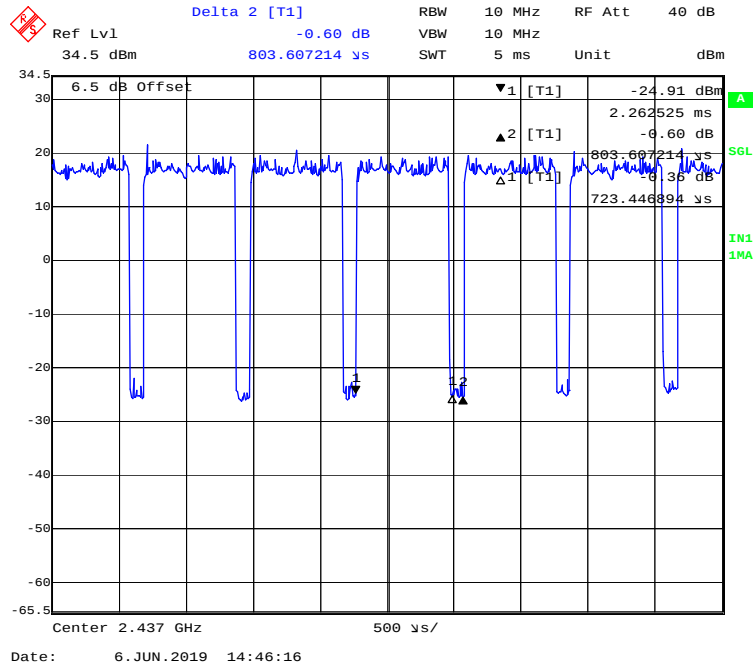
Mode	Data Rate	Power Level
802.11b	1 Mbps	8
802.11g	6 Mbps	26
802.11n-HT20	MCS0	26

Duty Cycle:

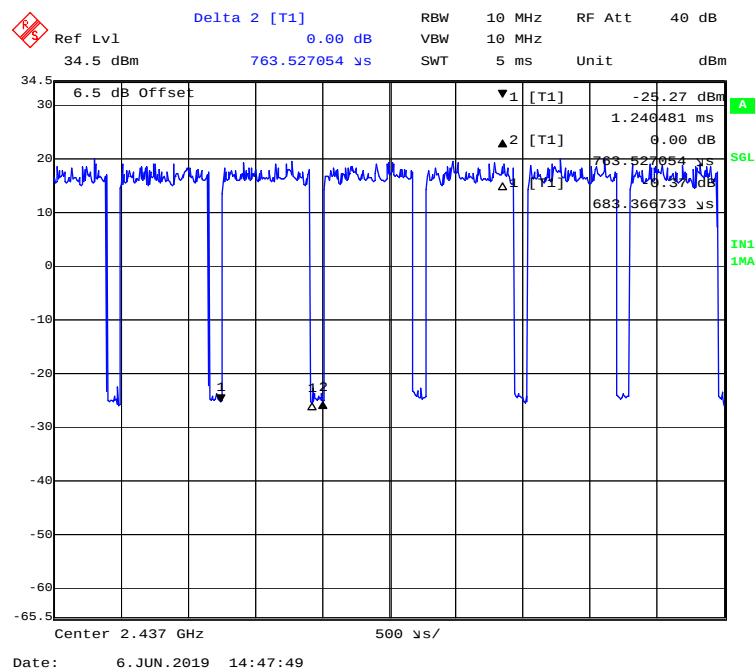
802.11b Mode Middle Channel



802.11g Mode Middle Channel



802.11n-HT20 Mode Middle Channel



Mode	Duty Cycle(%)	T(ms)	1/T(kHz)	10log(1/x)
802.11b	90.56	4.23	0.24	0.43
802.11g	90.02	0.72	1.39	0.46
802.11n-HT20	89.50	0.68	1.47	0.48

Note: “x” means the Duty Cycle.

Support Equipment List and Details

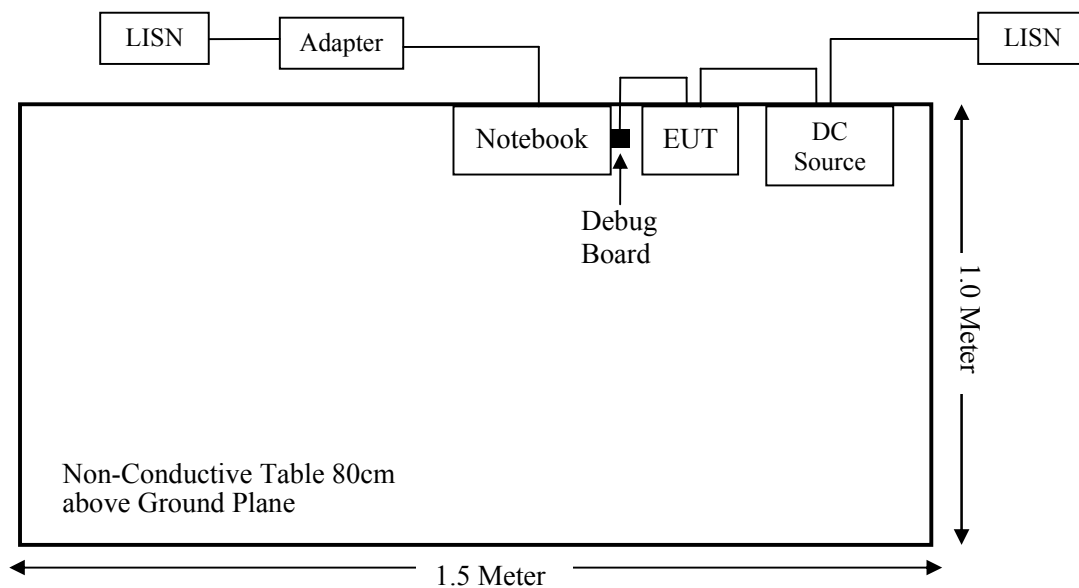
Manufacturer	Description	Model	Serial Number
DELL	Notebook	GX620	D65874152
DELL	Adapter	LA65NS0-00	DF263
/	Debug Board	/	/
ZHAOXIN	DC Power Supply	RXN-605D	DC002

External I/O Cable

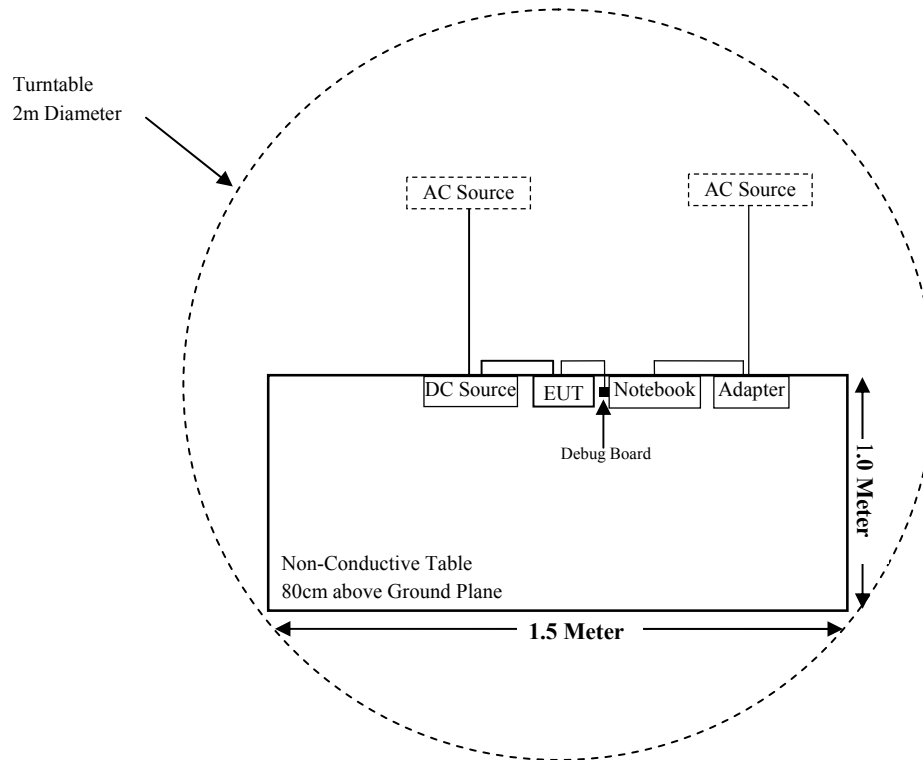
Cable Description	Length (m)	From Port	To
Data Cable	0.1	EUT	Debug Board
Power Cable	0.3	EUT	DC Source
Power Cable	1.2	DC Source	AC Source
Power Cable	0.6	Notebook	Adapter
Power Cable	1.2	Adapter	AC Source

Block Diagram of Test Setup

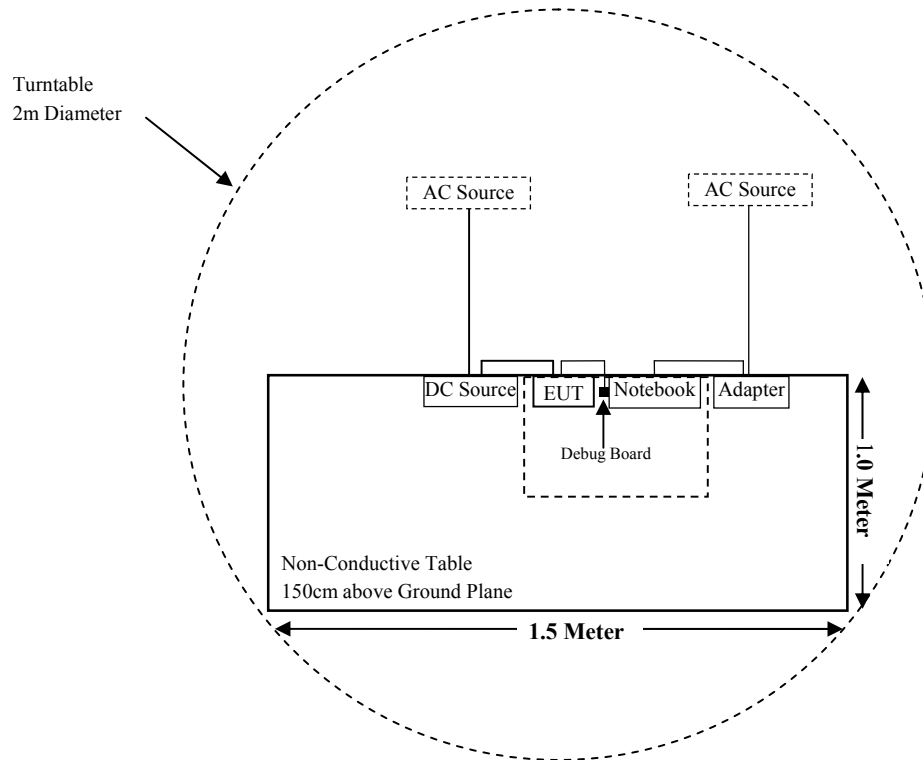
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (I), §1.1310 & §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.247(d)	Spurious Emissions at Antenna Port	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2018-11-30	2019-11-29
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-14	2019-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-27	2019-08-26
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2017-07-15	2020-07-14
ETS-LINDGREN	Horn Antenna	3116	00 b084159	2016-12-12	2019-12-11
A.H.Systems, inc	Amplifier	2641-1	491	2019-02-20	2020-02-19
EM Electronics Corporation	Amplifier	EM18G40G	060726	2019-03-22	2020-03-21
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2018-08-05	2019-08-04
Narda	Attenuator	10dB	010	2018-08-15	2019-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
RF Conducted Test					
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146	2018-11-30	2019-11-29
Agilent	Power Meter	N1912A	MY5000492	2018-11-18	2019-11-17
Agilent	Power Sensor	N1921A	MY54210024	2018-11-18	2019-11-17
Narda	Attenuator	6dB	006	2019-01-10	2020-01-09
Krell	RF Cable	/	/	Each Time	/
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2018-11-30	2019-11-29
Rohde & Schwarz	LISN	ENV216	3560655016	2018-11-30	2019-11-29
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2018-11-30	2019-11-29
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2019-01-10	2020-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14

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

FCC §15.247 (I) & §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1310 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2412~2462	5.70	3.72	19.00	79.43	20	0.0587	1.0000
802.11g		5.70	3.72	19.00	79.43	20	0.0587	1.0000
802.11n-HT20		5.70	3.72	19.00	79.43	20	0.0587	1.0000

Result: The device meet FCC MPE at 20 cm distance.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has a linear antenna for Wi-Fi, which the maximum antenna gain is 5.70 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

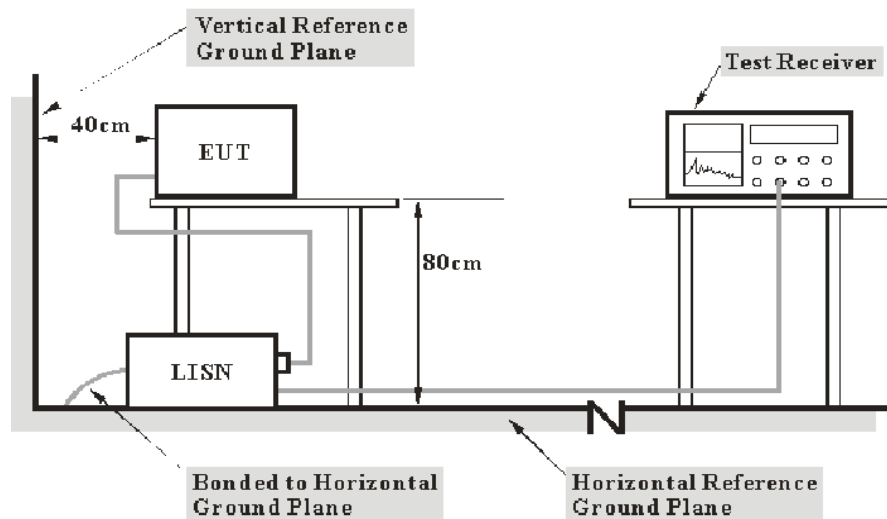
Result: Compliant.

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 measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

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

ANSI C63.10-2013 clause 6.2

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

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

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

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Corrected Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Corrected Amplitude (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

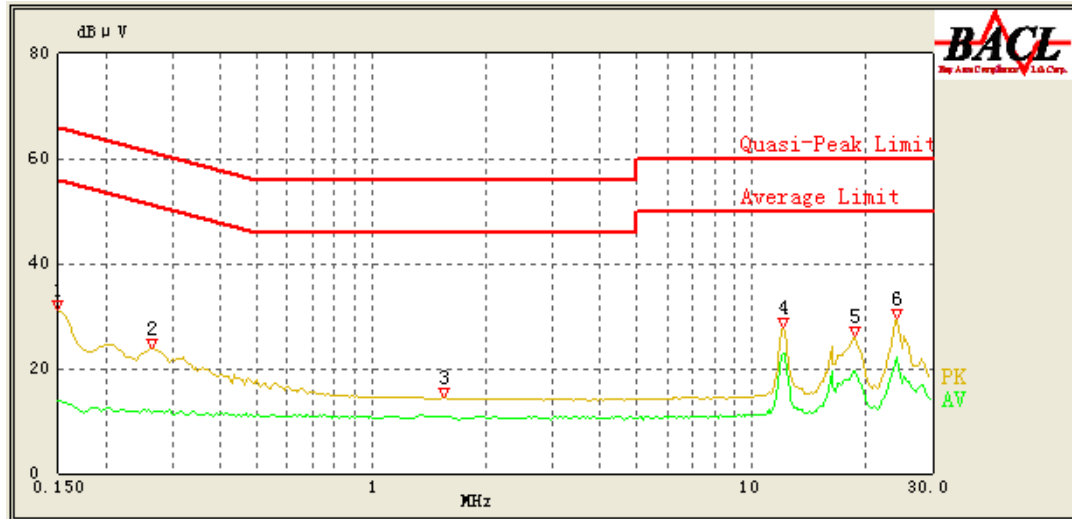
Temperature:	20.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2019-04-26.

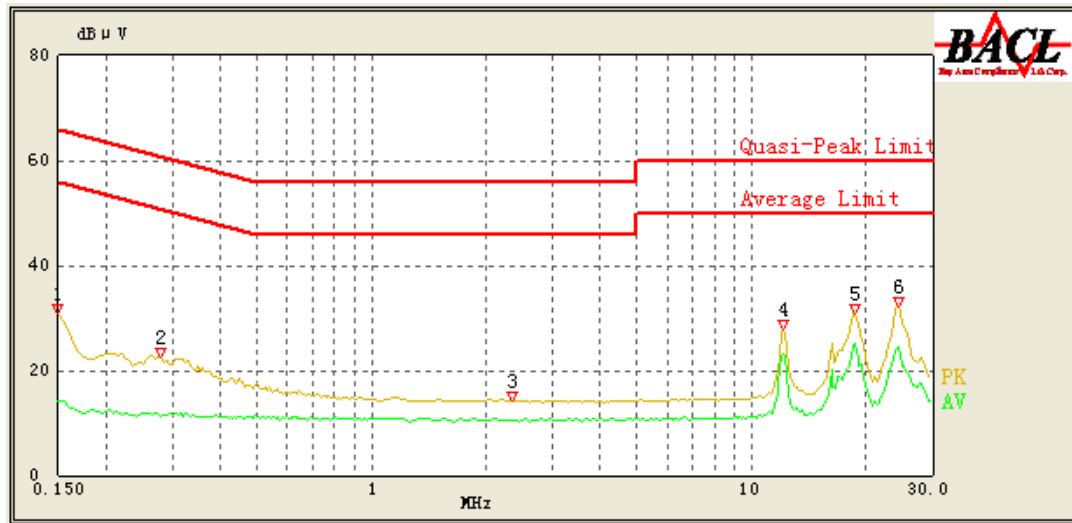
Test Result: Compliant.

EUT operation mode: Transmitting in 802.11g mode high channel (worst case)

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	31.32	QP	9.000	L1	16.06	66.00	34.68	Compliance
0.150	13.97	AV	9.000	L1	16.06	56.00	42.03	Compliance
0.265	23.68	QP	9.000	L1	16.03	61.27	37.59	Compliance
0.265	11.62	AV	9.000	L1	16.03	51.27	39.65	Compliance
1.550	14.36	QP	9.000	L1	15.86	56.00	41.64	Compliance
1.550	10.71	AV	9.000	L1	15.86	46.00	35.29	Compliance
12.100	27.79	QP	9.000	L1	16.12	60.00	32.21	Compliance
12.100	22.92	AV	9.000	L1	16.12	50.00	27.08	Compliance
18.800	26.16	QP	9.000	L1	16.38	60.00	33.84	Compliance
18.800	19.44	AV	9.000	L1	16.38	50.00	30.56	Compliance
24.150	29.41	QP	9.000	L1	16.46	60.00	30.59	Compliance
24.150	22.04	AV	9.000	L1	16.46	50.00	27.96	Compliance

AC 120V/60 Hz, Neutral

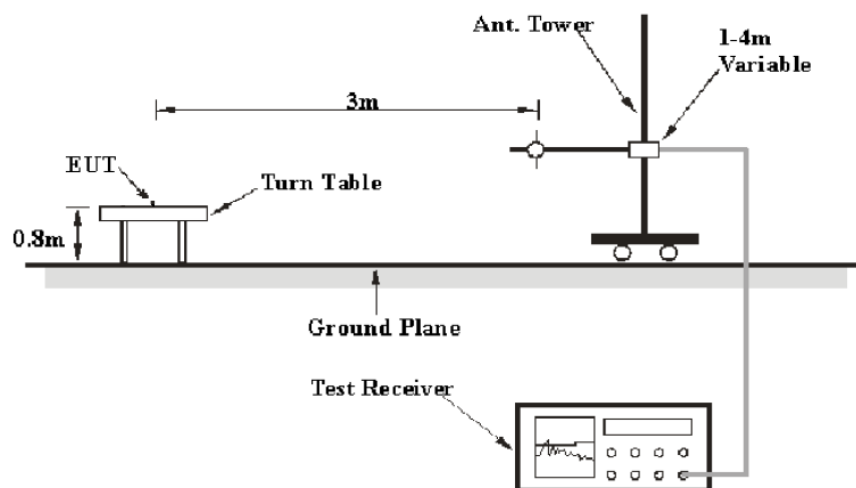
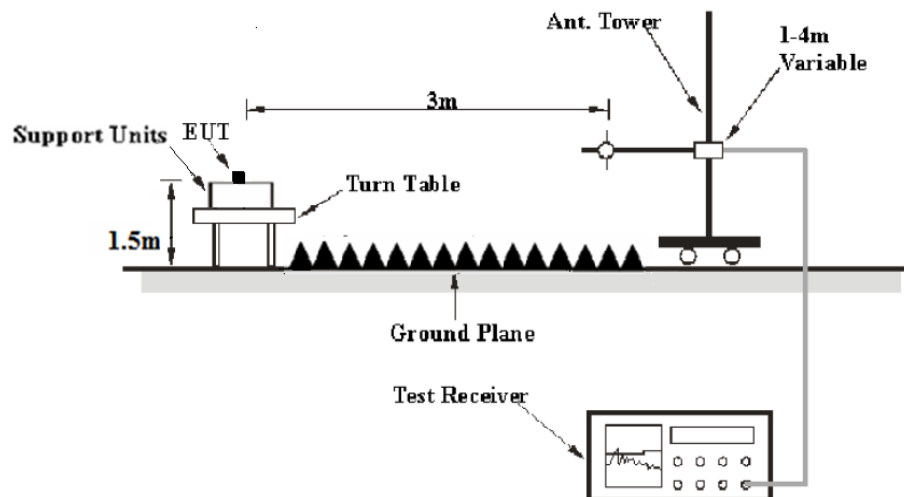
Frequency (MHz)	Corrected Amplitude (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	30.70	QP	9.000	N	16.06	66.00	35.30	Compliance
0.150	14.08	AV	9.000	N	16.06	56.00	41.92	Compliance
0.280	22.36	QP	9.000	N	16.03	60.82	38.46	Compliance
0.280	11.09	AV	9.000	N	16.03	50.82	39.73	Compliance
2.350	14.24	QP	9.000	N	15.85	56.00	41.76	Compliance
2.350	10.61	AV	9.000	N	15.85	46.00	35.39	Compliance
12.100	27.89	QP	9.000	N	16.12	60.00	32.11	Compliance
12.100	23.24	AV	9.000	N	16.12	50.00	26.76	Compliance
18.800	30.88	QP	9.000	N	16.38	60.00	29.12	Compliance
18.800	25.01	AV	9.000	N	16.38	50.00	24.99	Compliance
24.300	32.09	QP	9.000	N	16.46	60.00	27.91	Compliance
24.300	24.61	AV	9.000	N	16.46	50.00	25.39	Compliance

Note:

- 1) Corrected Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
- 2) Margin = Limit – Reading

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

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**Below 1 GHz:****Above 1GHz:**

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

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	Duty Cycle	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	/	QP
Above 1GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	≥98%	Ave.
	1 MHz	1/T	<98%	Ave.

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

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 mode 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:

$$\text{Corrected Amplitude (dB}\mu\text{V /m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

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:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V /m)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data**Environmental Conditions**

Temperature:	21.3-24.1 °C
Relative Humidity:	48-50 %
ATM Pressure:	100.4-101.2kPa

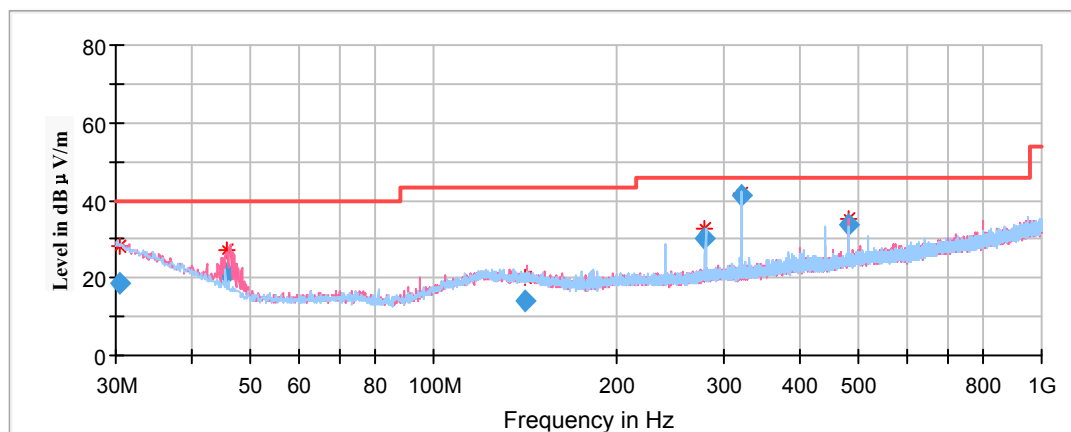
The testing was performed by Max Min from 2019-04-15 to 2019-04-26.

Test Result: Compliant.

EUT operation mode: Transmitting

Spurious Emission Test:**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g and 802.11n-HT20 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11g mode high channel in Z-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
30.400008	18.83	199.0	H	255.0	-4.2	40.00	21.17
45.564100	20.92	101.0	V	81.0	-14.5	40.00	19.08
141.887000	14.01	199.0	V	30.0	-12.0	43.50	29.49
279.752300	30.27	199.0	H	133.0	-11.1	46.00	15.73
320.005700	41.23	199.0	H	108.0	-10.1	46.00	4.77
481.006700	33.62	101.0	V	158.0	-6.6	46.00	12.38

1GHz-18GHz:**802.11b Mode:**

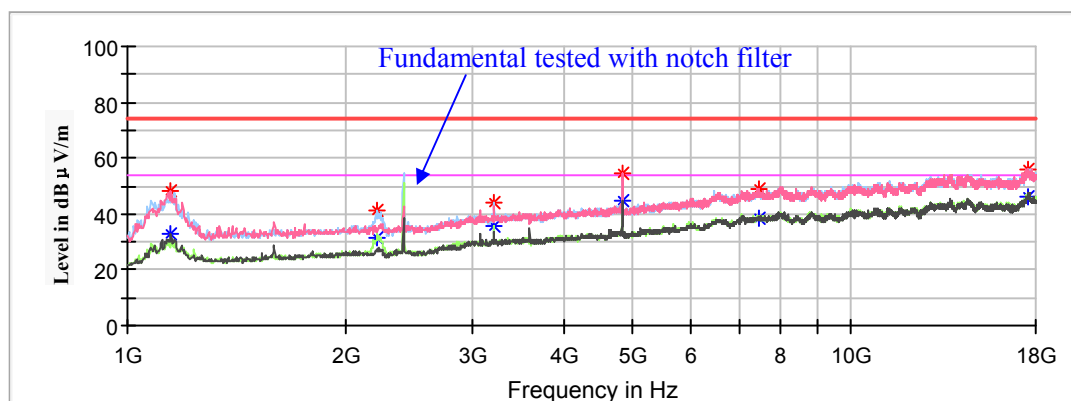
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV /m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

Low Channel: 2412MHz

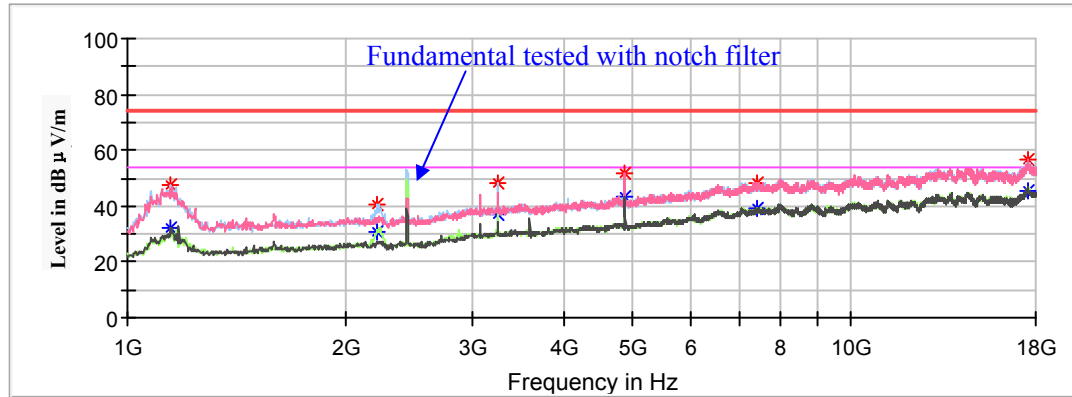
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1149.600000	---	32.76	200.0	V	223.0	-11.8	54.00	21.24
1149.600000	48.55	---	200.0	V	223.0	-11.8	74.00	25.45
2217.200000	---	31.75	150.0	H	171.0	-7.7	54.00	22.25
2217.200000	41.11	---	150.0	H	171.0	-7.7	74.00	32.89
3213.400000	---	35.58	150.0	H	160.0	-4.0	54.00	18.42
3213.400000	44.13	---	150.0	H	160.0	-4.0	74.00	29.87
4824.000000	---	45.10	200.0	V	247.0	-0.5	54.00	8.90
4824.000000	54.21	---	200.0	V	247.0	-0.5	74.00	19.79
7236.000000	---	38.28	150.0	V	19.0	6.1	54.00	15.72
7236.000000	49.05	---	150.0	V	19.0	6.1	74.00	24.95
17575.000000	---	45.96	200.0	H	327.0	14.2	54.00	8.04
17575.000000	56.12	---	200.0	H	327.0	14.2	74.00	17.88

Middle Channel: 2437MHz

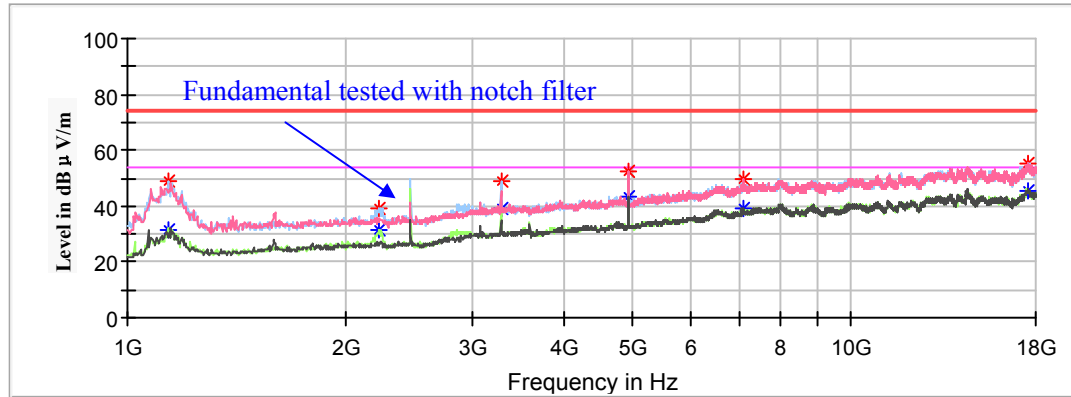
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V /m)	Average (dB μ V /m)	Height (cm)	Polar (H/V)				
1149.600000	---	32.02	100.0	H	234.0	-11.8	54.00	21.98
1149.600000	47.70	---	100.0	H	234.0	-11.8	74.00	26.30
2213.800000	---	30.88	100.0	H	188.0	-7.7	54.00	23.12
2213.800000	40.66	---	100.0	H	188.0	-7.7	74.00	33.34
3247.400000	---	37.02	150.0	H	159.0	-4.0	54.00	16.98
3247.400000	47.99	---	150.0	H	159.0	-4.0	74.00	26.01
4874.000000	---	43.03	150.0	V	230.0	-0.5	54.00	10.97
4874.000000	52.08	---	150.0	V	230.0	-0.5	74.00	21.92
7311.000000	---	38.91	200.0	V	0.0	6.0	54.00	15.09
7311.000000	48.42	---	200.0	V	0.0	6.0	74.00	25.58
17537.600000	---	45.48	200.0	V	351.0	14.2	54.00	8.52
17537.600000	56.37	---	200.0	V	351.0	14.2	74.00	17.63

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V /m)	Average (dB μ V /m)	Height (cm)	Polar (H/V)				
1139.400000	49.17	---	100.0	H	225.0	-11.9	74.00	24.83
1139.400000	---	31.30	100.0	H	225.0	-11.9	54.00	22.70
2224.000000	39.41	---	100.0	H	166.0	-7.6	74.00	34.59
2224.000000	---	31.45	100.0	H	166.0	-7.6	54.00	22.55
3281.400000	---	38.99	100.0	H	351.0	-3.9	54.00	15.01
3281.400000	48.71	---	100.0	H	351.0	-3.9	74.00	25.29
4924.000000	---	43.63	200.0	V	0.0	-0.4	54.00	10.37
4924.000000	52.73	---	200.0	V	0.0	-0.4	74.00	21.27
7386.000000	---	38.92	150.0	V	312.0	5.5	54.00	15.08
7386.000000	49.56	---	150.0	V	312.0	5.5	74.00	24.44
17551.200000	---	45.65	100.0	V	281.0	14.2	54.00	8.35
17551.200000	55.02	---	100.0	V	281.0	14.2	74.00	18.98

802.11g Mode:

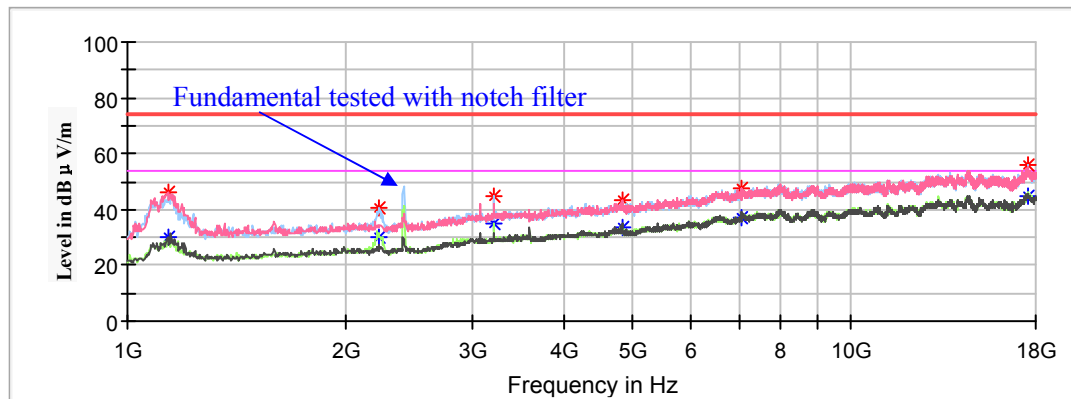
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4 - 2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

Low Channel: 2412MHz

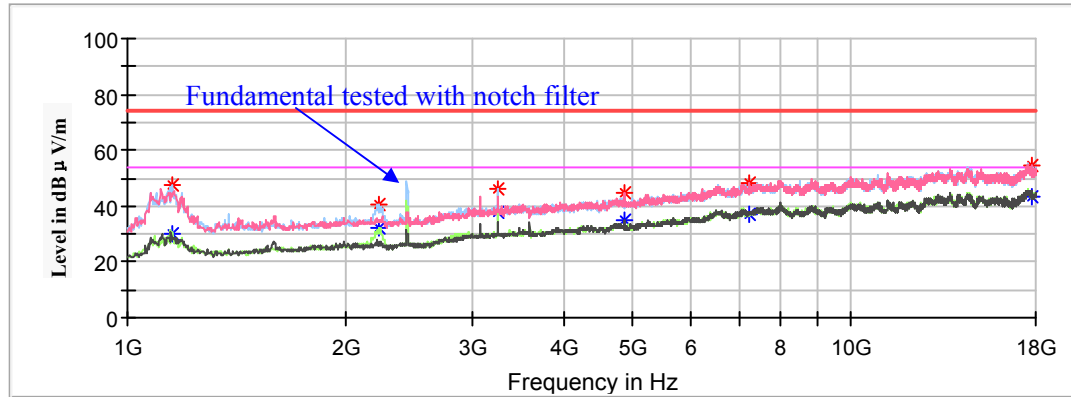
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V /m)	Average (dB μ V /m)	Height (cm)	Polar (H/V)				
1136.000000	---	29.85	200.0	V	208.0	-11.9	54.00	24.15
1136.000000	46.07	---	200.0	V	208.0	-11.9	74.00	27.93
2230.800000	---	29.93	200.0	H	172.0	-7.6	54.00	24.07
2230.800000	40.32	---	200.0	H	172.0	-7.6	74.00	33.68
3213.400000	---	34.64	200.0	H	158.0	-4.0	54.00	19.36
3213.400000	45.07	---	200.0	H	158.0	-4.0	74.00	28.93
4824.000000	---	33.22	150.0	V	0.0	-0.5	54.00	20.78
4824.000000	43.28	---	150.0	V	0.0	-0.5	74.00	30.72
7236.000000	---	36.87	200.0	V	334.0	6.1	54.00	17.13
7236.000000	47.86	---	200.0	V	334.0	6.1	74.00	26.14
17564.800000	---	44.97	200.0	H	19.0	14.2	54.00	9.03
17564.800000	55.91	---	200.0	H	19.0	14.2	74.00	18.09

Middle Channel: 2437MHz

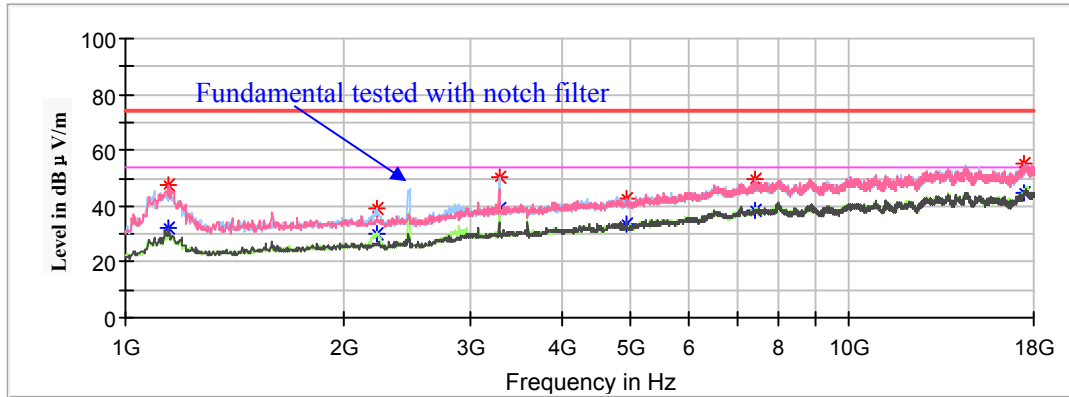
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1153.000000	---	30.10	200.0	H	220.0	-11.8	54.00	23.90
1153.000000	47.81	---	200.0	H	220.0	-11.8	74.00	26.19
2224.000000	---	32.46	200.0	H	178.0	-7.6	54.00	21.54
2224.000000	40.79	---	200.0	H	178.0	-7.6	74.00	33.21
3247.400000	---	37.70	150.0	H	340.0	-4.0	54.00	16.30
3247.400000	46.39	---	150.0	H	340.0	-4.0	74.00	27.61
4874.000000	---	35.25	200.0	V	0.0	-0.5	54.00	18.75
4874.000000	44.88	---	200.0	V	0.0	-0.5	74.00	29.12
7311.000000	---	36.83	150.0	V	108.0	6.0	54.00	17.17
7311.000000	48.05	---	150.0	V	108.0	6.0	74.00	25.95
17830.000000	---	43.50	150.0	H	356.0	13.8	54.00	10.50
17830.000000	54.27	---	150.0	H	356.0	13.8	74.00	19.73

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V /m)	Average (dB μ V /m)	Height (cm)	Polar (H/V)				
1149.600000	---	31.83	200.0	V	210.0	-11.8	54.00	22.17
1149.600000	47.69	---	200.0	V	210.0	-11.8	74.00	26.31
2224.000000	---	30.09	150.0	H	161.0	-7.6	54.00	23.91
2224.000000	38.87	---	150.0	H	161.0	-7.6	74.00	35.13
3281.400000	---	39.28	150.0	H	329.0	-3.9	54.00	14.72
3281.400000	50.06	---	150.0	H	329.0	-3.9	74.00	23.94
4924.000000	---	33.80	200.0	V	0.0	-0.4	54.00	20.20
4924.000000	42.66	---	200.0	V	0.0	-0.4	74.00	31.34
7386.000000	---	38.12	200.0	V	341.0	5.5	54.00	15.88
7386.000000	49.37	---	200.0	V	341.0	5.5	74.00	24.63
17500.200000	---	44.99	200.0	H	330.0	14.3	54.00	9.01
17500.200000	55.18	---	200.0	H	330.0	14.3	74.00	18.82

802.11n-HT20 Mode:

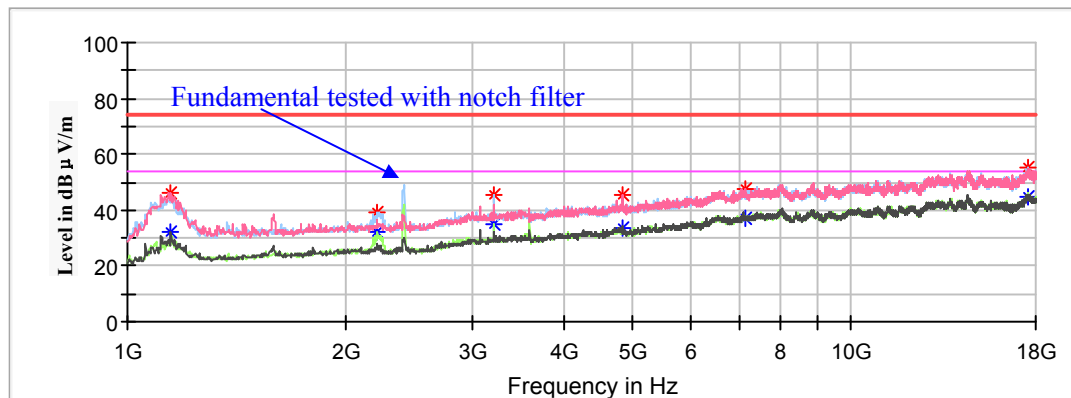
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4 - 2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

Low Channel: 2412MHz

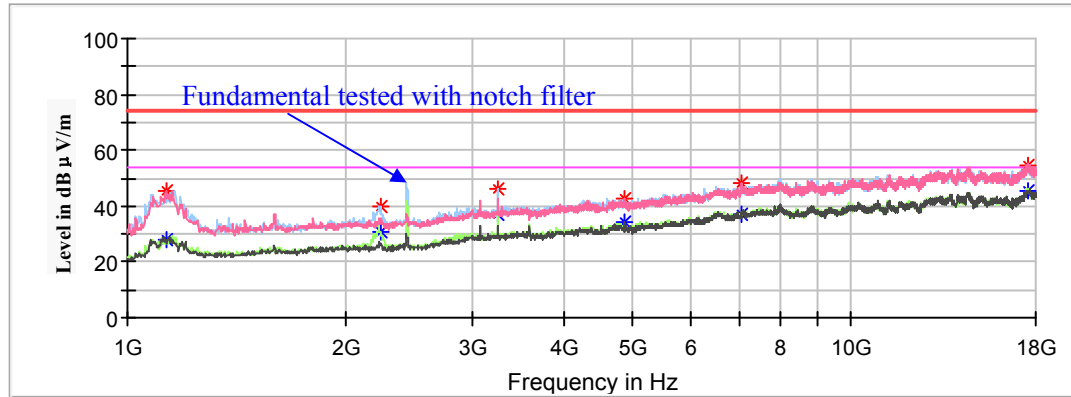
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V /m)	Average (dB μ V /m)	Height (cm)	Polar (H/V)				
1149.600000	---	32.36	200.0	V	260.0	-11.8	54.00	21.64
1149.600000	45.86	---	200.0	V	260.0	-11.8	74.00	28.14
2217.200000	---	32.10	200.0	H	183.0	-7.7	54.00	21.90
2217.200000	39.14	---	200.0	H	183.0	-7.7	74.00	34.86
3213.400000	---	35.22	150.0	H	157.0	-4.0	54.00	18.78
3213.400000	45.18	---	150.0	H	157.0	-4.0	74.00	28.82
4824.000000	---	33.24	200.0	V	232.0	-0.5	54.00	20.76
4824.000000	45.28	---	200.0	V	232.0	-0.5	74.00	28.72
7236.000000	---	37.11	200.0	V	134.0	6.1	54.00	16.89
7236.000000	47.85	---	200.0	V	134.0	6.1	74.00	26.15
17598.800000	---	44.87	200.0	H	107.0	14.1	54.00	9.13
17598.800000	55.40	---	200.0	H	107.0	14.1	74.00	18.60

Middle Channel: 2437MHz

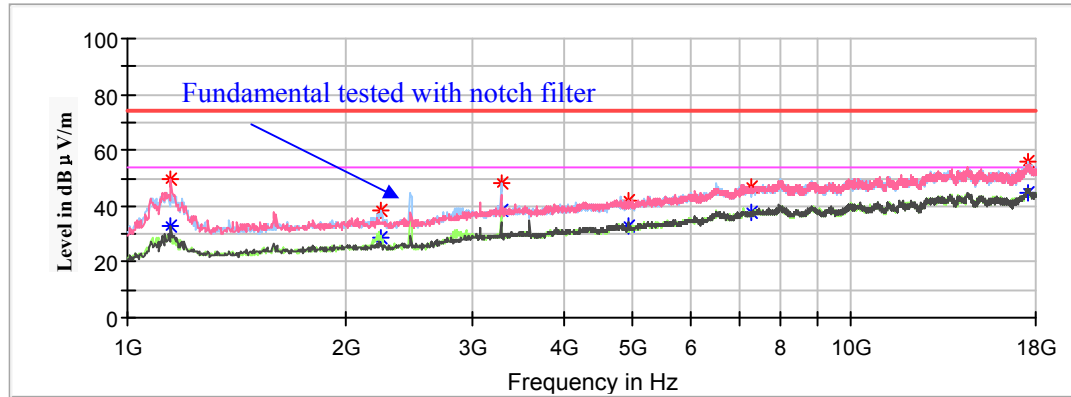
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1129.200000	---	28.31	200.0	V	246.0	-11.9	54.00	25.69
1129.200000	45.57	---	200.0	V	246.0	-11.9	74.00	28.43
2234.200000	---	30.52	200.0	H	177.0	-7.6	54.00	23.48
2234.200000	40.17	---	200.0	H	177.0	-7.6	74.00	33.83
3247.400000	---	36.86	200.0	H	163.0	-4.0	54.00	17.14
3247.400000	46.40	---	200.0	H	163.0	-4.0	74.00	27.60
4874.000000	---	34.01	150.0	V	1.0	-0.5	54.00	19.99
4874.000000	42.41	---	150.0	V	1.0	-0.5	74.00	31.59
7311.000000	---	37.34	200.0	V	0.0	6.0	54.00	16.66
7311.000000	48.14	---	200.0	V	0.0	6.0	74.00	25.86
17541.000000	---	45.19	200.0	H	72.0	14.2	54.00	8.81
17541.000000	54.86	---	200.0	H	72.0	14.2	74.00	19.14

High Channel: 2462MHz

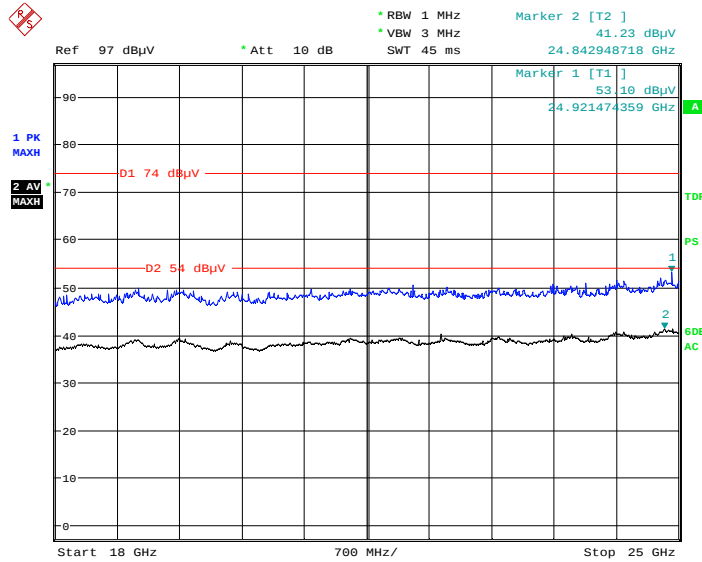
Full Spectrum



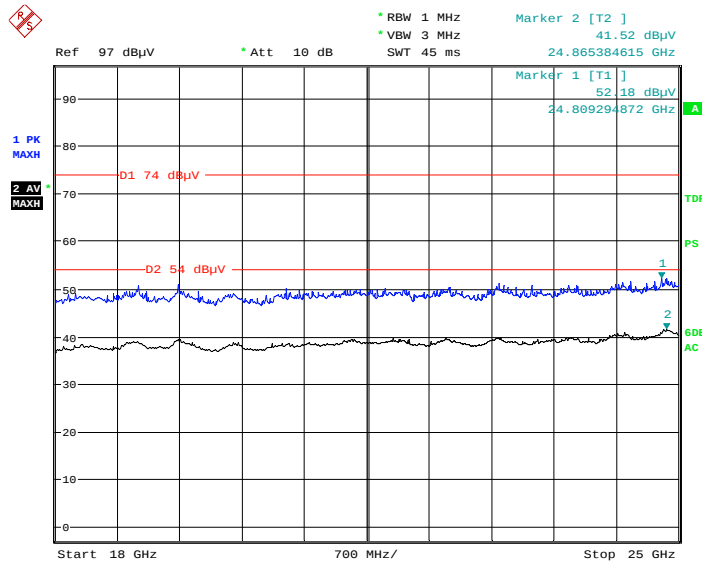
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV /m)	Average (dBµV /m)	Height (cm)	Polar (H/V)				
1149.600000	---	32.85	200.0	V	210.0	-11.8	54.00	21.15
1149.600000	49.99	---	200.0	V	210.0	-11.8	74.00	24.01
2244.400000	---	28.98	150.0	H	163.0	-7.6	54.00	25.02
2244.400000	38.72	---	150.0	H	163.0	-7.6	74.00	35.28
3281.400000	---	38.19	200.0	H	325.0	-3.9	54.00	15.81
3281.400000	48.07	---	200.0	H	325.0	-3.9	74.00	25.93
4924.000000	---	32.61	150.0	V	111.0	-0.4	54.00	21.39
4924.000000	42.29	---	150.0	V	111.0	-0.4	74.00	31.71
7386.000000	---	37.59	200.0	V	126.0	5.5	54.00	16.41
7386.000000	46.79	---	200.0	V	126.0	5.5	74.00	27.21
17612.400000	---	45.08	200.0	H	227.0	14.1	54.00	8.92
17612.400000	56.18	---	200.0	H	227.0	14.1	74.00	17.82

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g and 802.11n-HT20 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11g mode high channel in Z-axis of orientation** was recorded

Horizontal

Date: 22.APR.2019 15:03:48

Vertical

Date: 22.APR.2019 15:15:56

Fundamental Test & Restricted Bands Emissions Test:

Note:

1. The test was performed with a 10dB Attenuator
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

802.11b Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.000000	105.75	---	100.0	H	0.0	2.8	/	/
2412.000000	---	102.38	100.0	H	0.0	2.8	/	/
2412.000000	98.38	---	200.0	V	327.0	2.8	/	/
2412.000000	---	95.11	200.0	V	327.0	2.8	/	/
2390.000000	---	43.51	100.0	H	125.0	2.8	54.00	10.49
2390.000000	53.11	---	100.0	H	125.0	2.8	74.00	20.89
Middle Channel: 2437MHz								
2437.000000	106.29	---	100.0	H	30.0	2.9	/	/
2437.000000	---	102.67	100.0	H	30.0	2.9	/	/
2437.000000	98.95	---	200.0	V	337.0	2.9	/	/
2437.000000	---	95.43	200.0	V	337.0	2.9	/	/
High Channel: 2462MHz								
2462.000000	106.83	---	150.0	H	44.0	3.0	/	/
2462.000000	---	102.94	150.0	H	44.0	3.0	/	/
2462.000000	99.47	---	250.0	V	178.0	3.0	/	/
2462.000000	---	95.71	250.0	V	178.0	3.0	/	/
2483.500000	53.59	---	100.0	H	78.0	3.0	74.00	20.41
2483.500000	---	44.06	100.0	H	78.0	3.0	54.00	9.94

802.11g Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Z-axis of orientation was recorded)

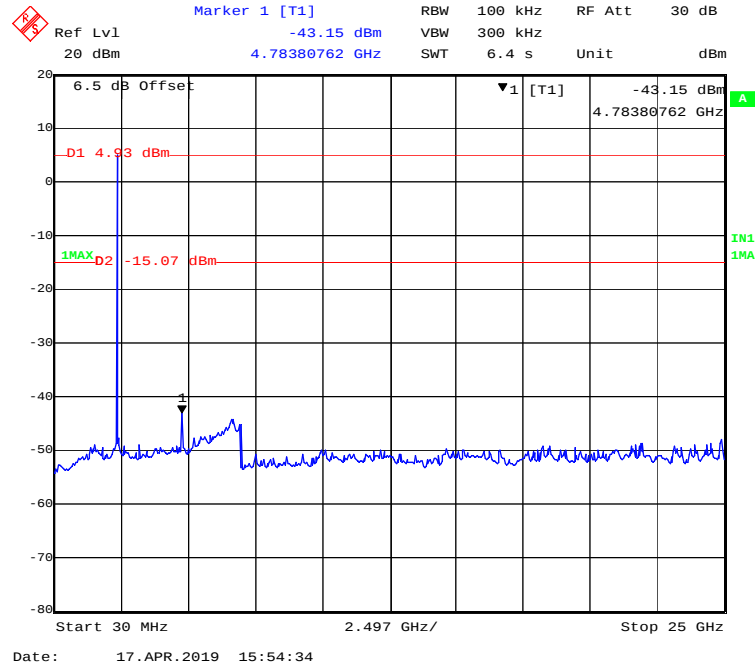
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.000000	103.30	---	100.0	H	332.0	2.8	/	/
2412.000000	---	95.93	100.0	H	332.0	2.8	/	/
2412.000000	96.06	---	200.0	V	140.0	2.8	/	/
2412.000000	---	88.66	200.0	V	140.0	2.8	/	/
2390.000000	---	46.11	100.0	H	278.0	2.8	54.00	7.89
2390.000000	55.49	---	100.0	H	278.0	2.8	74.00	18.51
Middle Channel: 2437MHz								
2437.000000	103.78	---	100.0	H	194.0	2.9	/	/
2437.000000	---	96.79	100.0	H	194.0	2.9	/	/
2437.000000	96.41	---	200.0	V	203.0	2.9	/	/
2437.000000	---	89.47	200.0	V	203.0	2.9	/	/
High Channel: 2462MHz								
2462.000000	104.27	---	150.0	H	175.0	3.0	/	/
2462.000000	---	96.92	150.0	H	175.0	3.0	/	/
2462.000000	96.88	---	250.0	V	231.0	3.0	/	/
2462.000000	---	89.68	250.0	V	231.0	3.0	/	/
2483.500000	61.46	---	100.0	H	233.0	3.0	74.00	12.54
2483.500000	---	50.31	100.0	H	135.0	3.0	54.00	3.69

802.11n-HT20 Mode: (Pre-scan in the X,Y and Z axes of orientation, the worst case Z-axis of orientation was recorded)

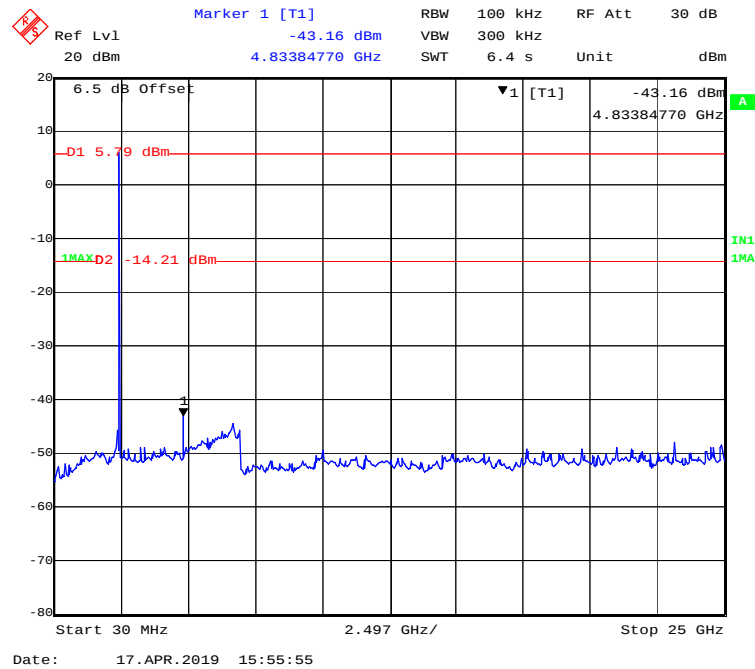
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.000000	102.78	---	100.0	H	16.0	2.8	/	/
2412.000000	---	95.56	100.0	H	16.0	2.8	/	/
2412.000000	95.38	---	200.0	V	287.0	2.8	/	/
2412.000000	---	88.25	200.0	V	287.0	2.8	/	/
2390.000000	---	46.83	100.0	H	126.0	2.8	54.00	7.17
2390.000000	60.81	---	100.0	H	126.0	2.8	74.00	13.19
Middle Channel: 2437MHz								
2437.000000	103.78	---	100.0	H	151.0	2.9	/	/
2437.000000	---	96.79	100.0	H	151.0	2.9	/	/
2437.000000	96.48	---	200.0	V	190.0	2.9	/	/
2437.000000	---	89.34	200.0	V	190.0	2.9	/	/
High Channel: 2462MHz								
2462.000000	103.53	---	150.0	H	351.0	3.0	/	/
2462.000000	---	96.08	150.0	H	351.0	3.0	/	/
2462.000000	96.18	---	250.0	V	218.0	3.0	/	/
2462.000000	---	88.77	250.0	V	218.0	3.0	/	/
2483.500000	62.44	---	100.0	H	72.0	3.0	74.00	11.56
2483.500000	---	50.61	100.0	H	72.0	3.0	54.00	3.39

Conducted Spurious Emissions at Antenna Port

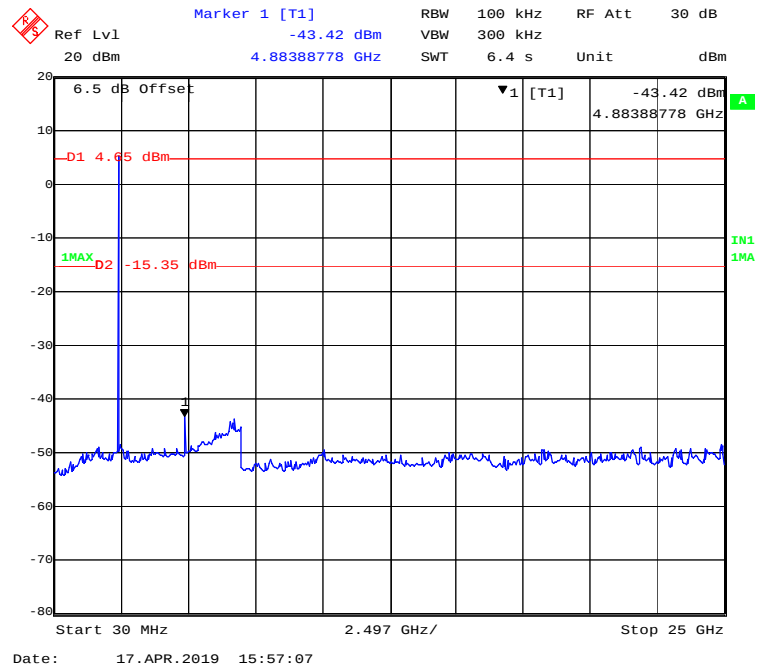
802.11b Mode Low Channel



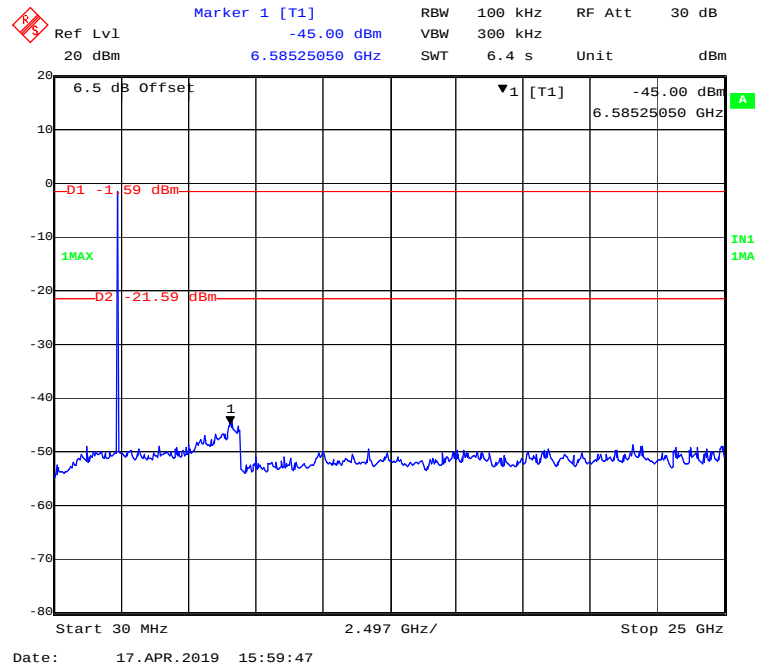
802.11b Mode Middle Channel



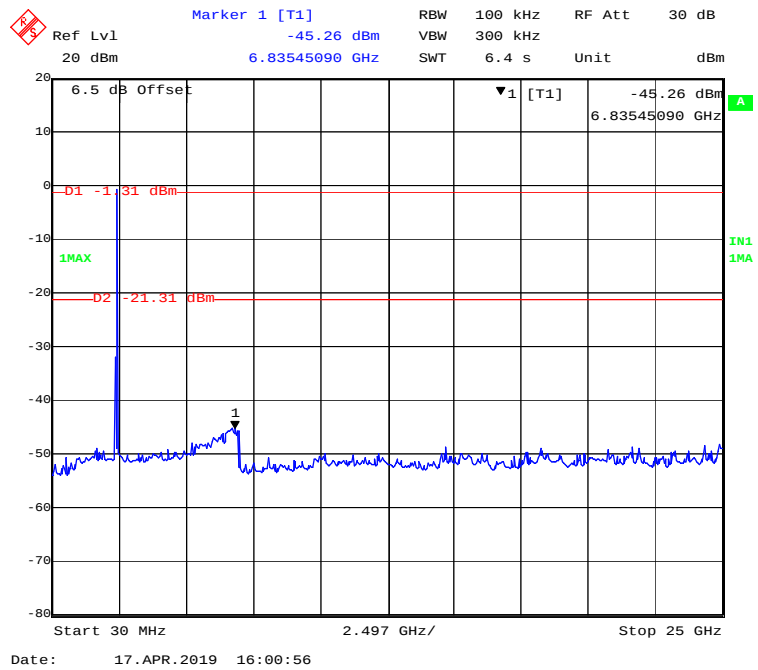
802.11b Mode High Channel



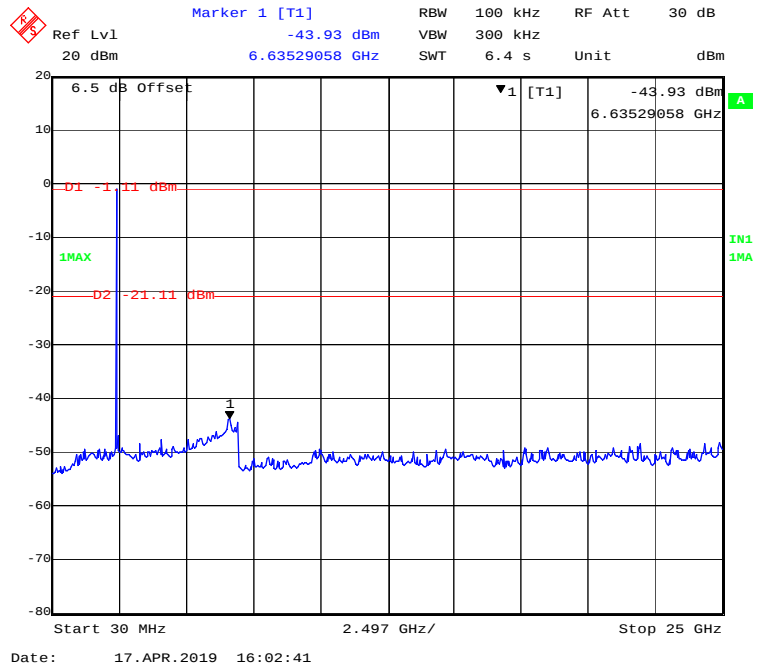
802.11g Mode Low Channel



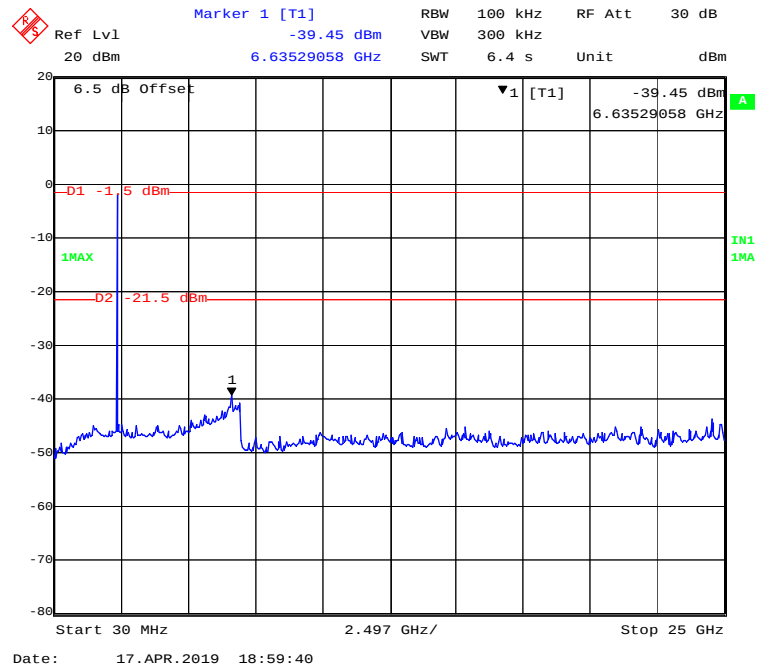
802.11g Mode Middle Channel



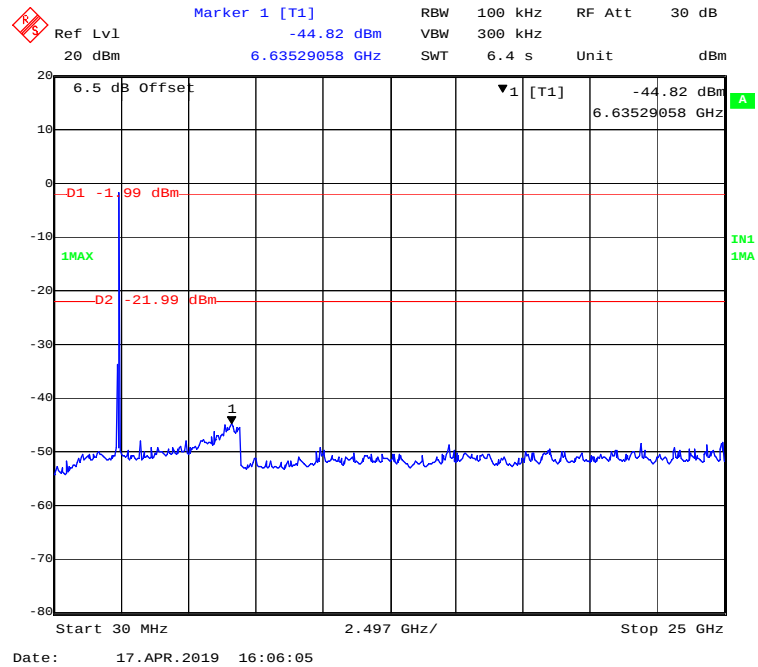
802.11g Mode High Channel



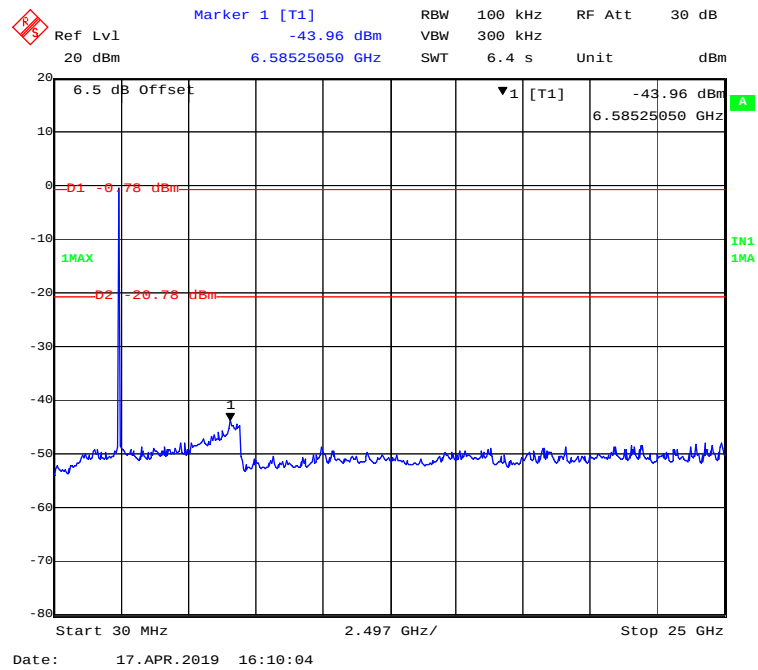
802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



802.11n-HT20 Mode High Channel



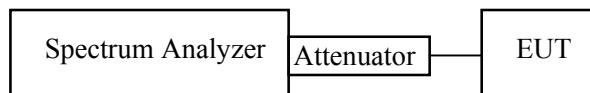
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH**Applicable Standard**

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

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 Data****Environmental Conditions**

Temperature:	24 °C
Relative Humidity:	51 %
ATM Pressure:	101.3 kPa

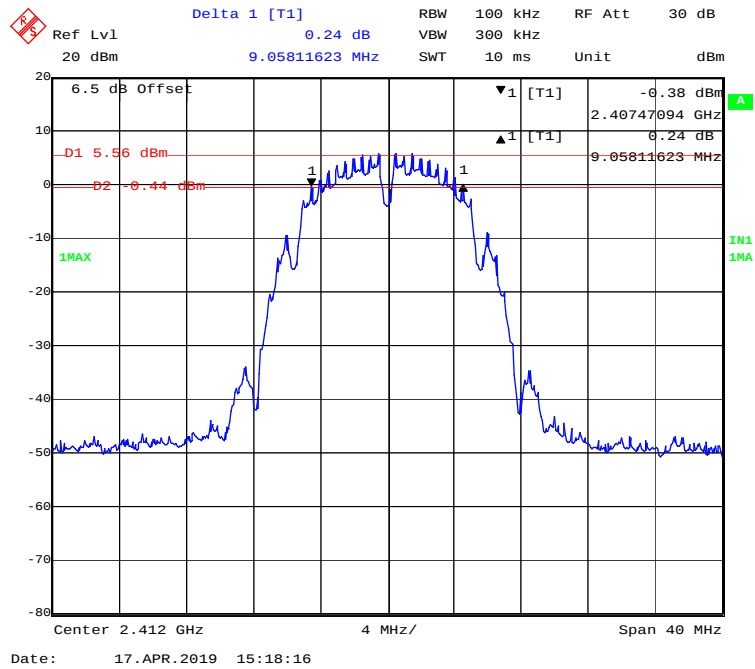
The testing was performed by Max Min on 2019-04-17.

Test Result: Compliant.

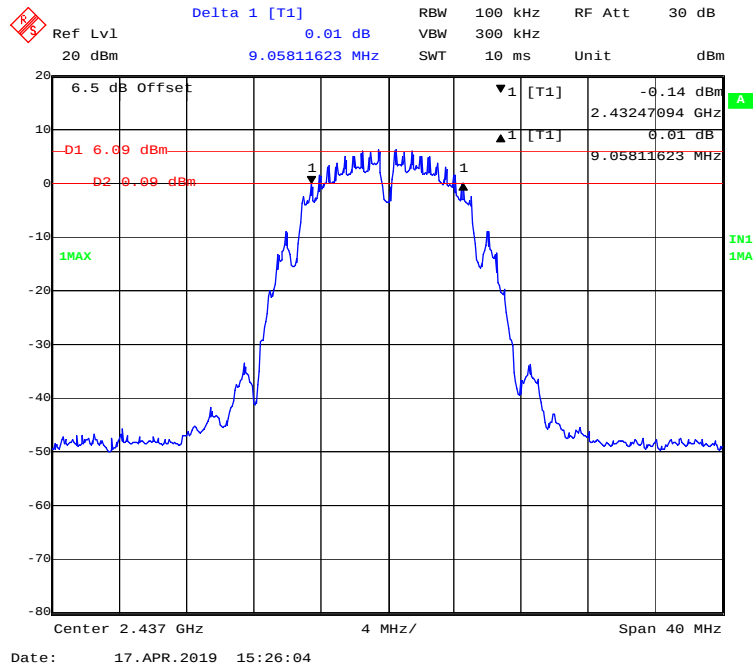
EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	9.058	≥ 0.5
Middle	2437	9.058	≥ 0.5
High	2462	9.058	≥ 0.5
802.11g Mode			
Low	2412	16.192	≥ 0.5
Middle	2437	16.353	≥ 0.5
High	2462	16.192	≥ 0.5
802.11n-HT20 Mode			
Low	2412	16.834	≥ 0.5
Middle	2437	17.074	≥ 0.5
High	2462	16.593	≥ 0.5

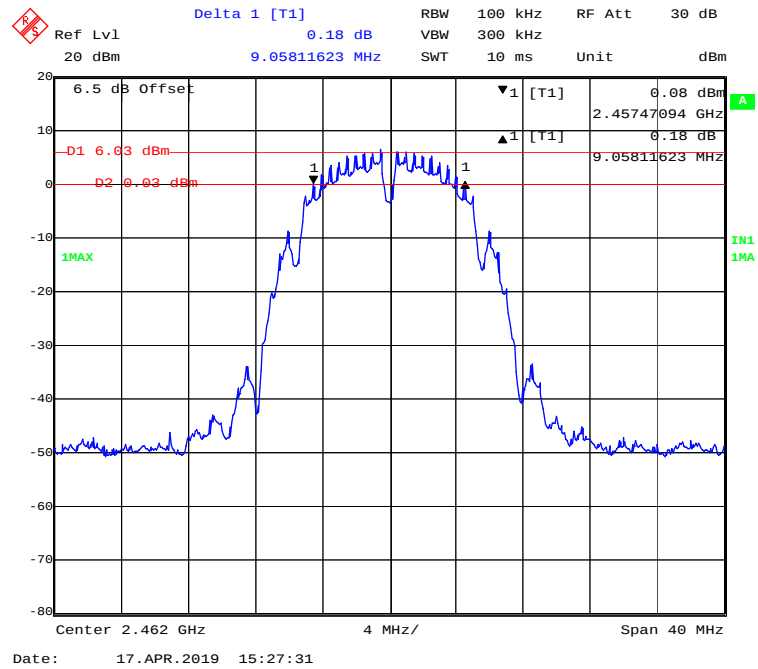
802.11b Mode Low Channel



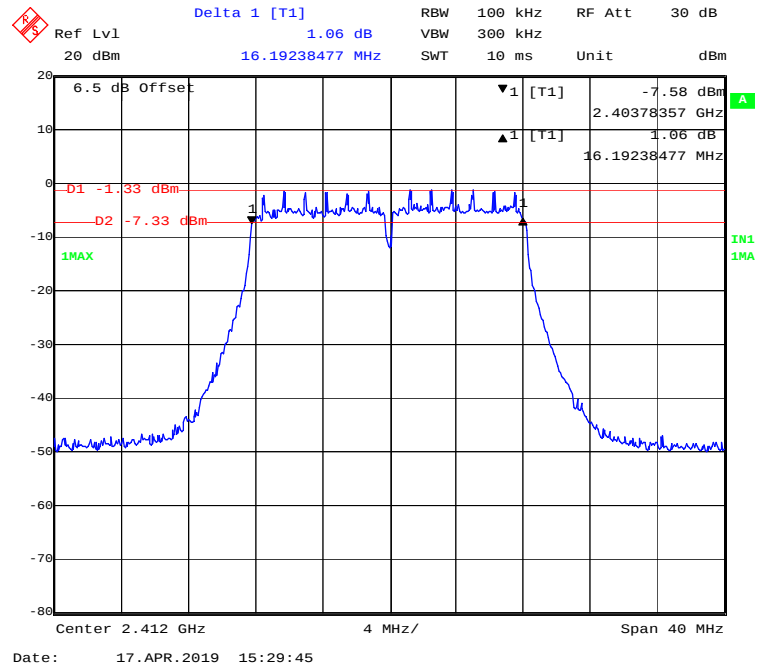
802.11b Mode Middle Channel



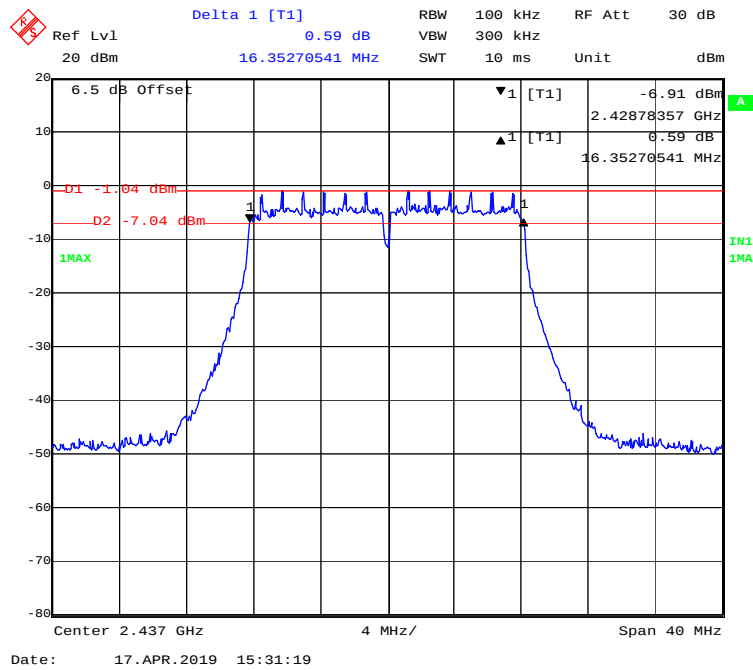
802.11b Mode High Channel



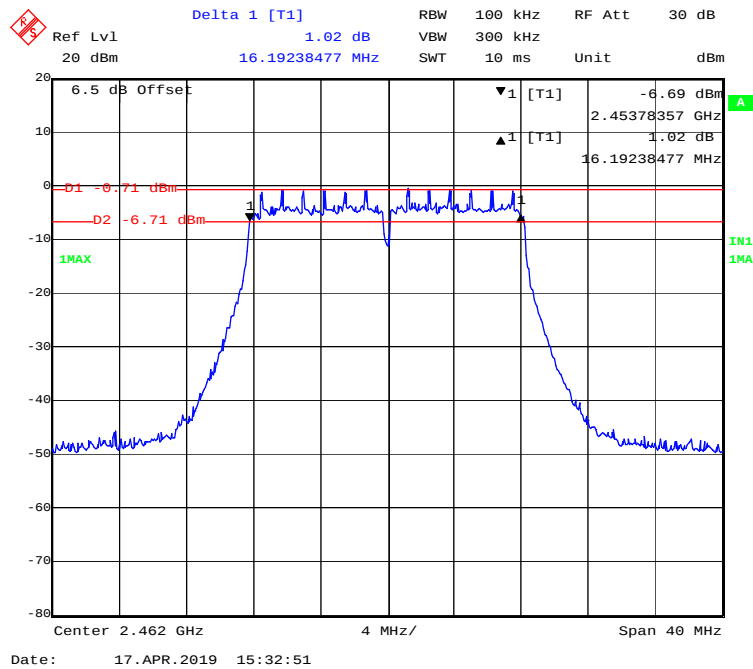
802.11g Mode Low Channel



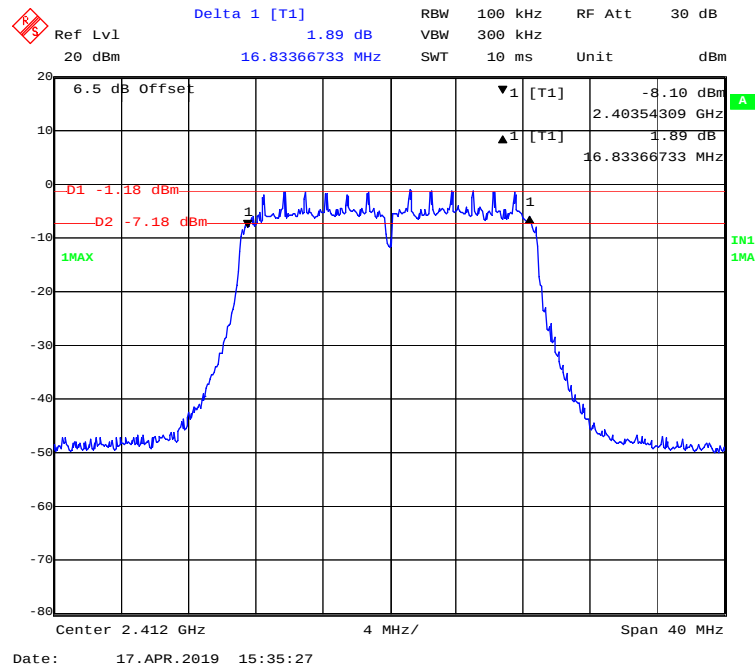
802.11g Mode Middle Channel



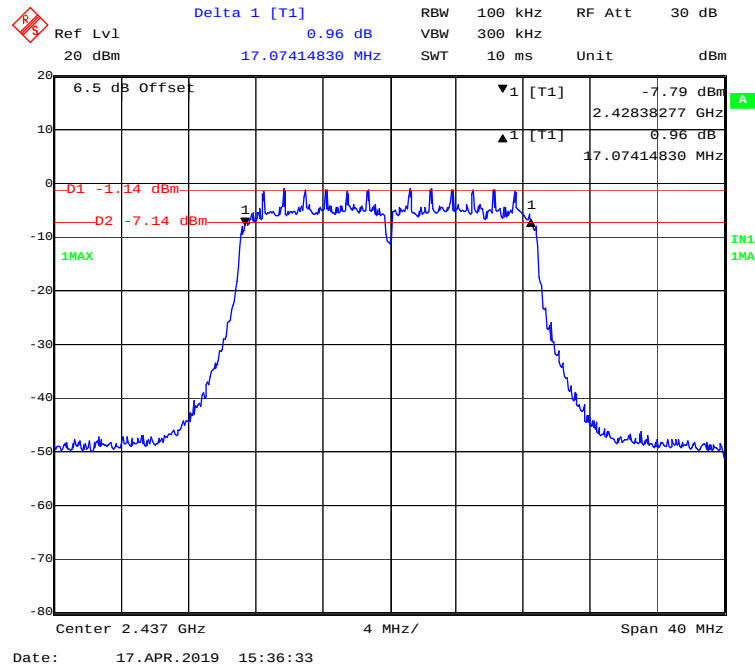
802.11g Mode High Channel



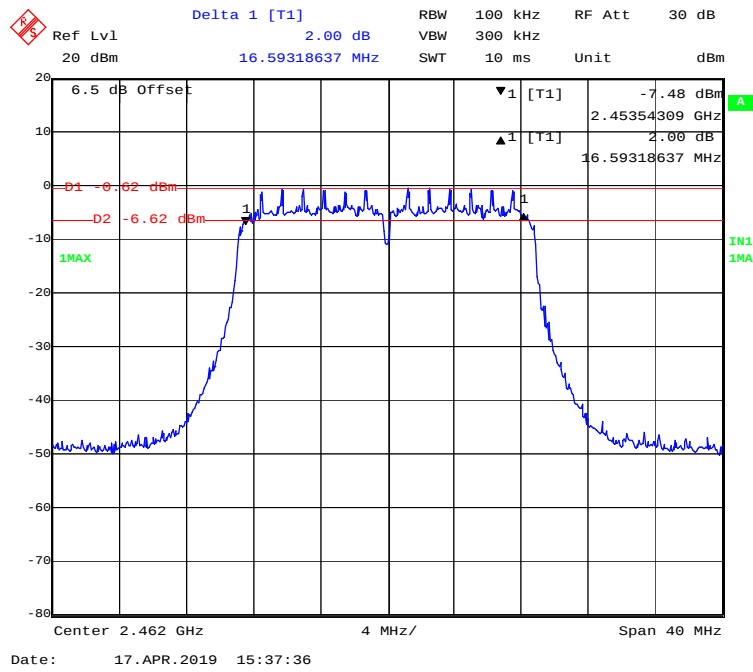
802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



802.11n-HT20 Mode High Channel



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

Applicable Standard

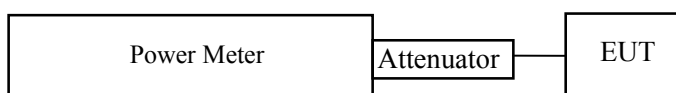
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted 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 FCC §15.247(b) (4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.



Test Data

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	54 %
ATM Pressure:	101.2 kPa

The testing was performed by Max Min on 2019-04-17.

Test Result: Compliant.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
802.11b Mode				
Low	2412	17.57	30	Pass
Middle	2437	17.74	30	Pass
High	2462	18.08	30	Pass
802.11g Mode				
Low	2412	18.06	30	Pass
Middle	2437	18.39	30	Pass
High	2462	18.88	30	Pass
802.11n-HT20 Mode				
Low	2412	18.23	30	Pass
Middle	2437	18.58	30	Pass
High	2462	18.78	30	Pass

FCC §15.247(d) – BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2013 sub-clause 6.10.

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 Data

Environmental Conditions

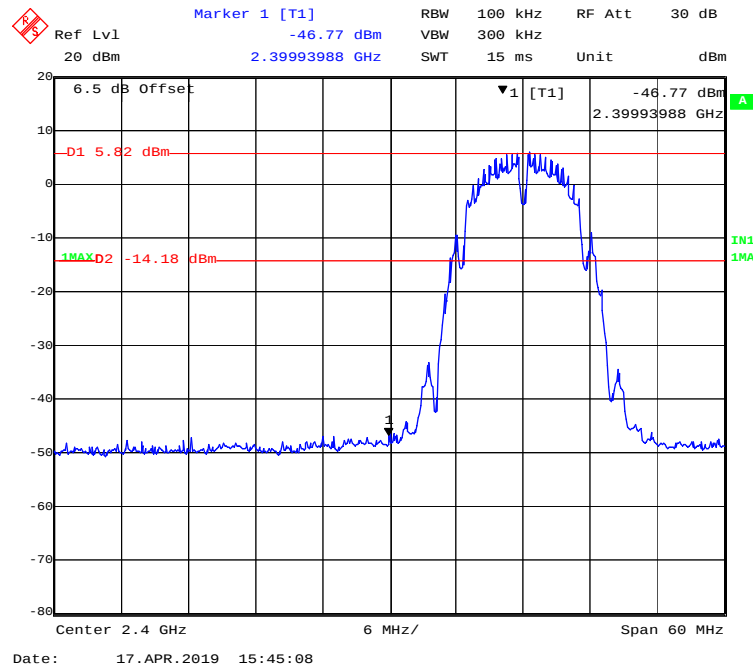
Temperature:	24.3 °C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2019-04-17.

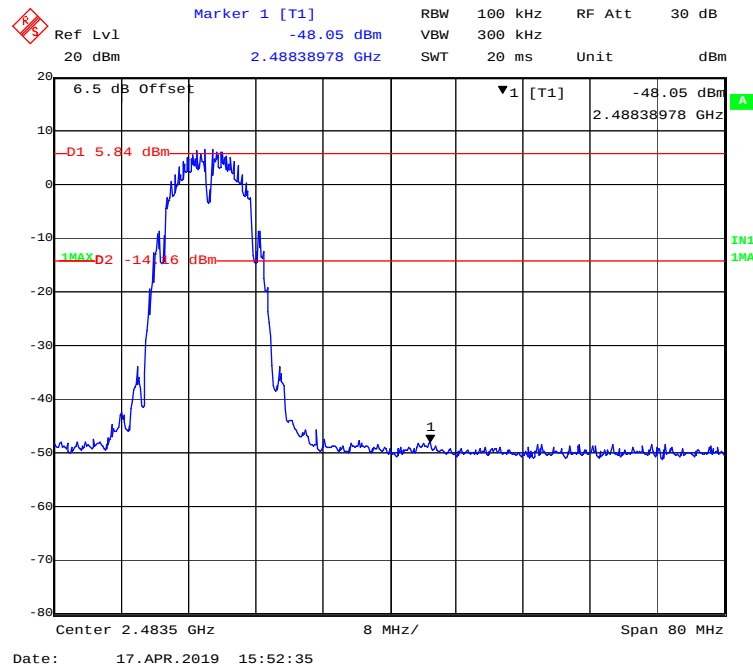
Test Result: Compliant

EUT operation mode: Transmitting

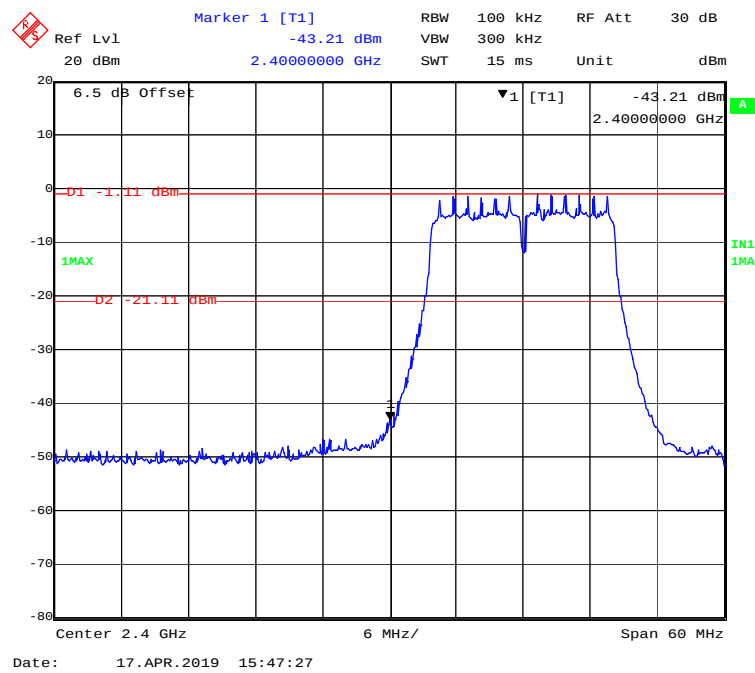
802.11b Mode Left Side



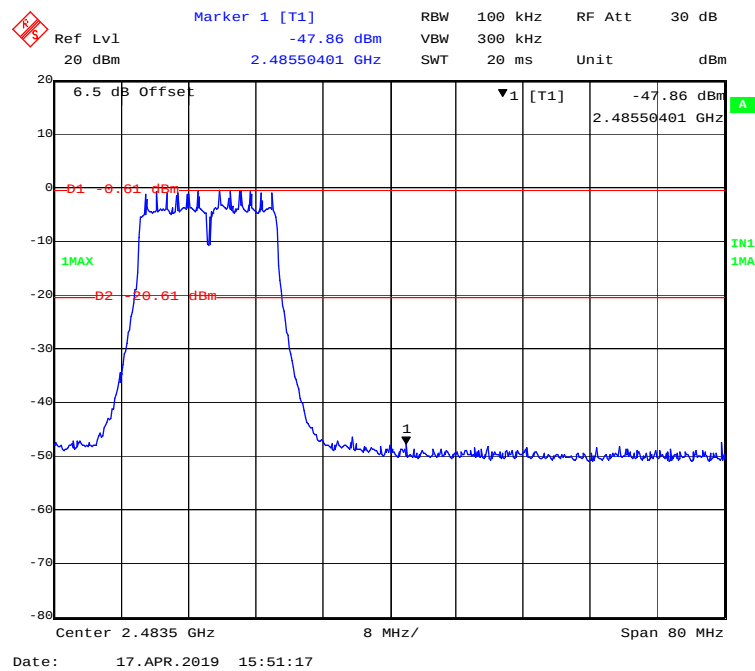
802.11b Mode Right Side



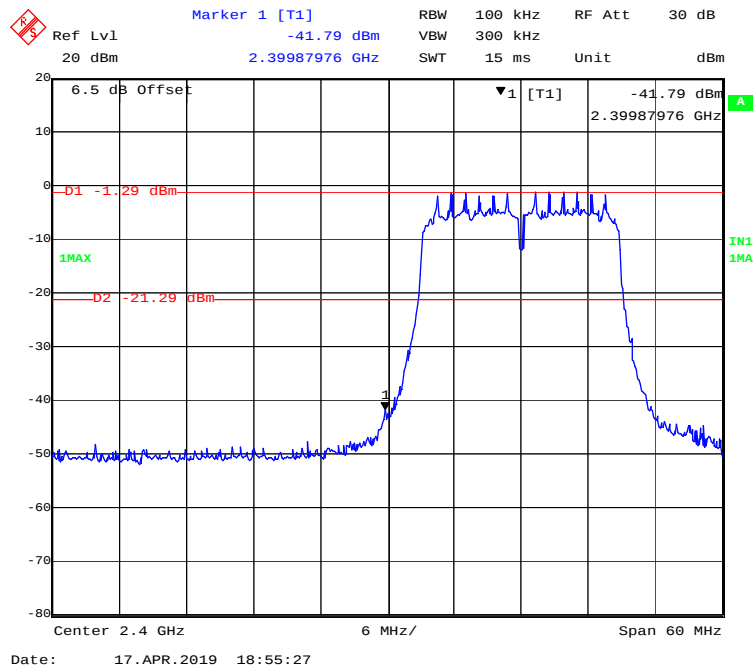
802.11g Mode Left Side



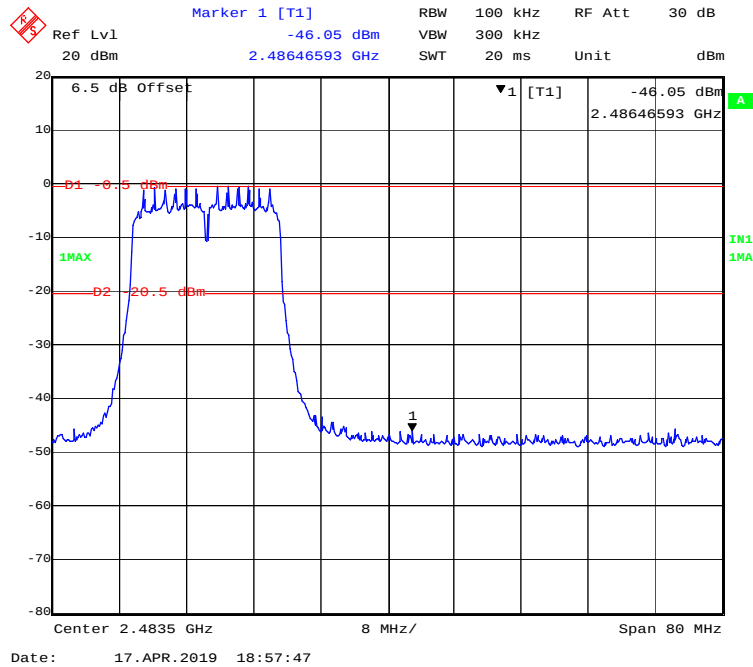
802.11g Mode Right Side



802.11n-HT20 Mode Left Side



802.11n-HT20 Mode Right Side



FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

According to ANSI C63.10-2013 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

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

Test Data

Environmental Conditions

Temperature:	24.1 °C
Relative Humidity:	50%
ATM Pressure:	101.3 kPa

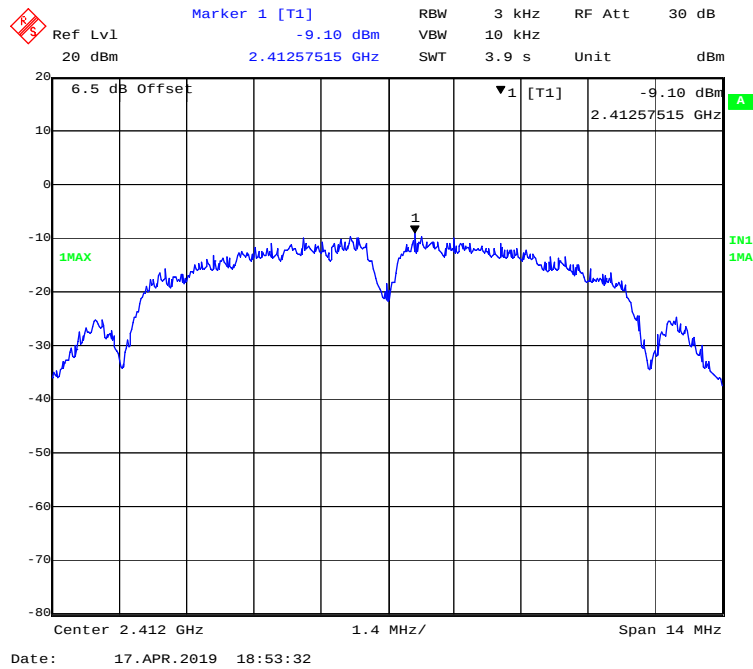
The testing was performed by Max Min on 2019-04-17.

Test Result: Compliant

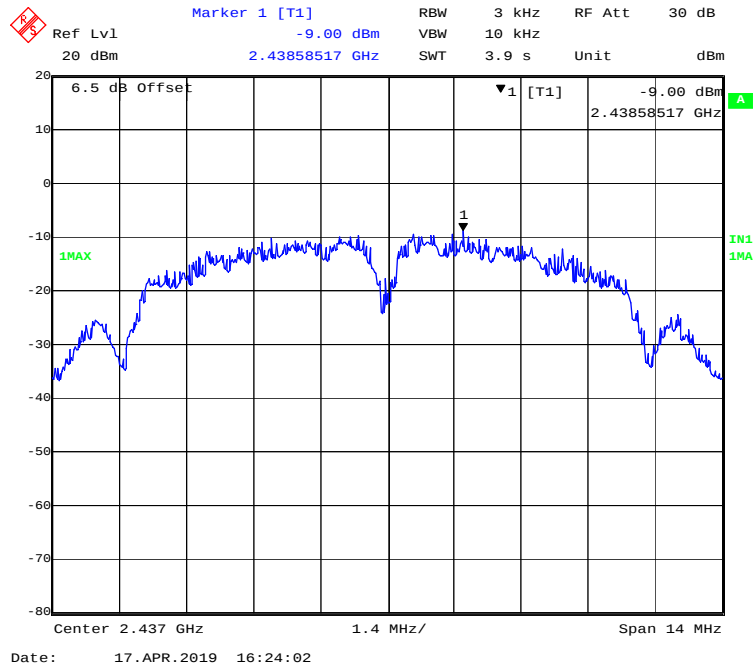
EUT operation mode: Transmitting

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	-9.10	≤ 8
Middle	2437	-9.00	≤ 8
High	2462	-8.61	≤ 8
802.11g Mode			
Low	2412	-14.82	≤ 8
Middle	2437	-14.59	≤ 8
High	2462	-14.50	≤ 8
802.11n-HT20 mode			
Low	2412	-15.33	≤ 8
Middle	2437	-15.03	≤ 8
High	2462	-14.59	≤ 8

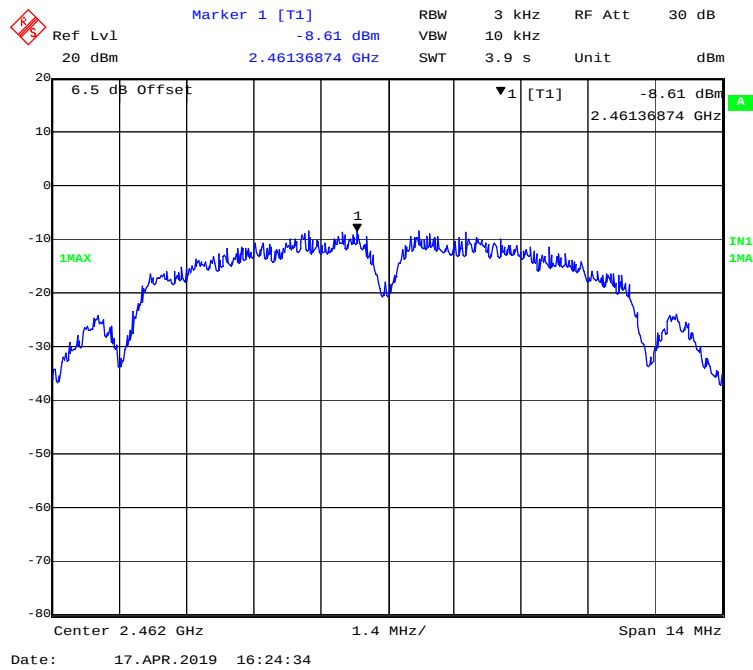
802.11b Mode Low Channel



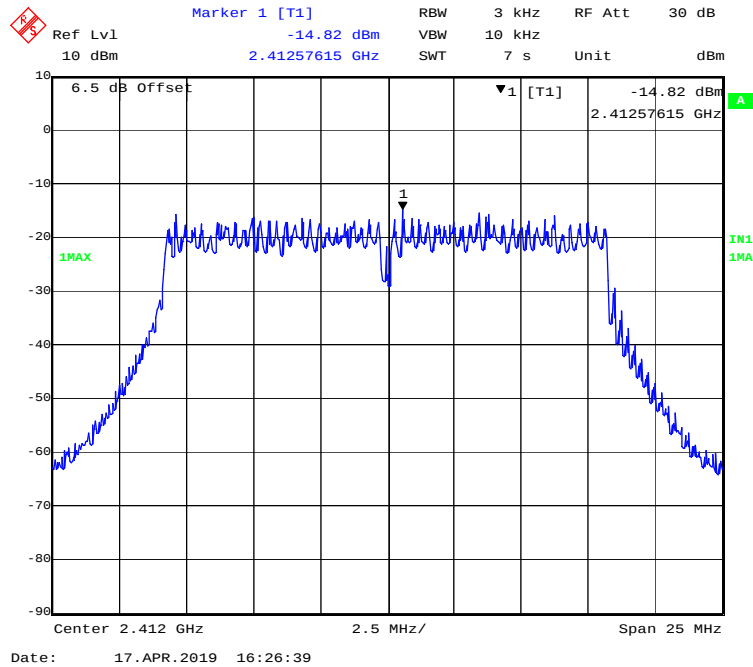
802.11b Mode Middle Channel



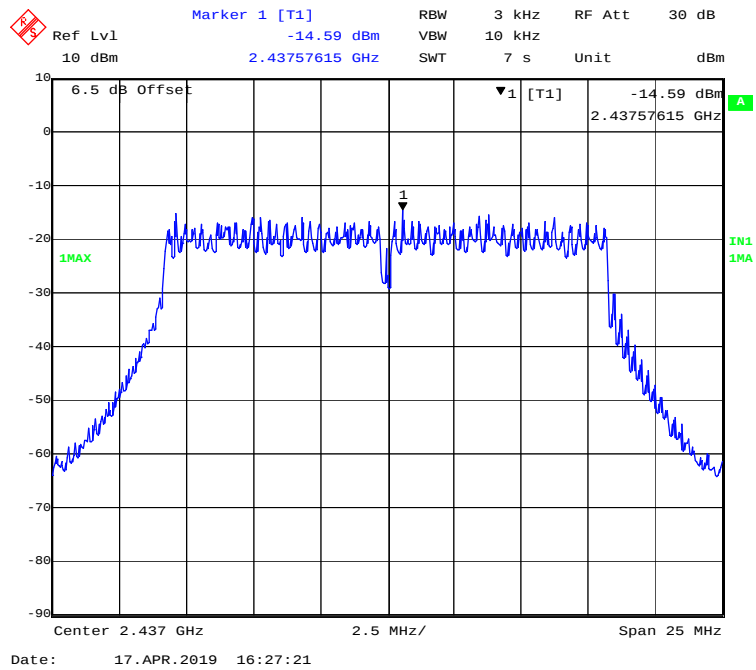
802.11b Mode High Channel



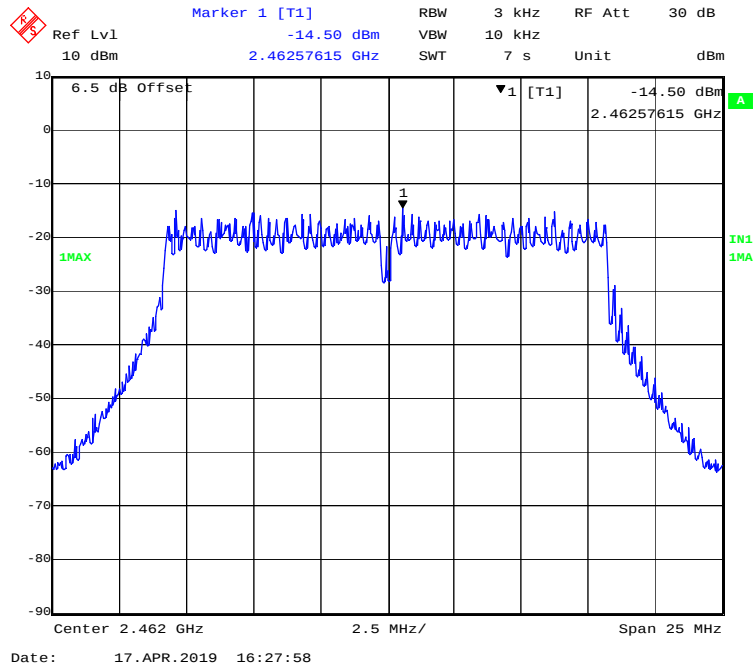
802.11g Mode Low Channel



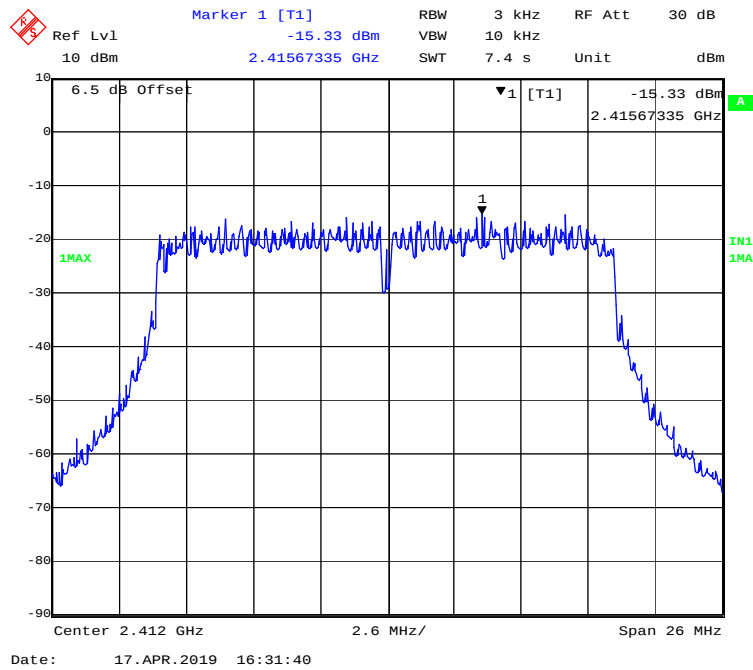
802.11g Mode Middle Channel



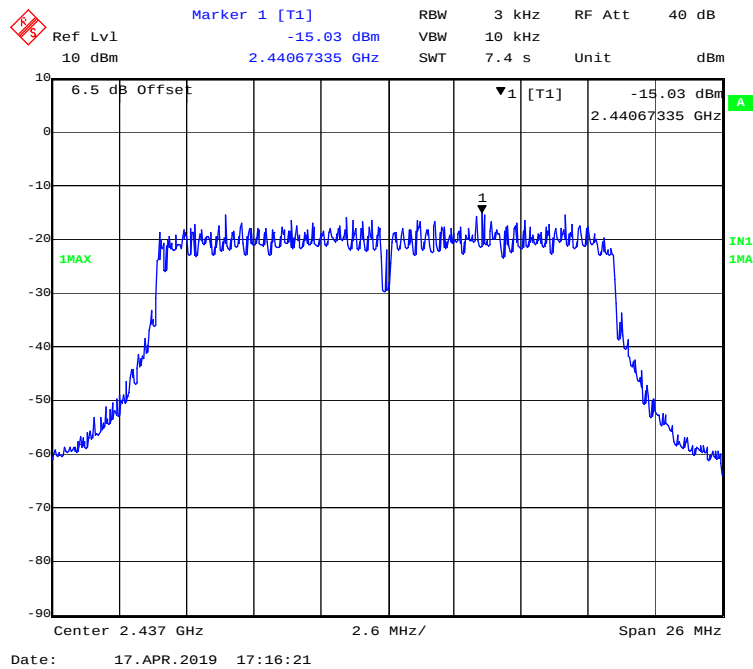
802.11g Mode High Channel



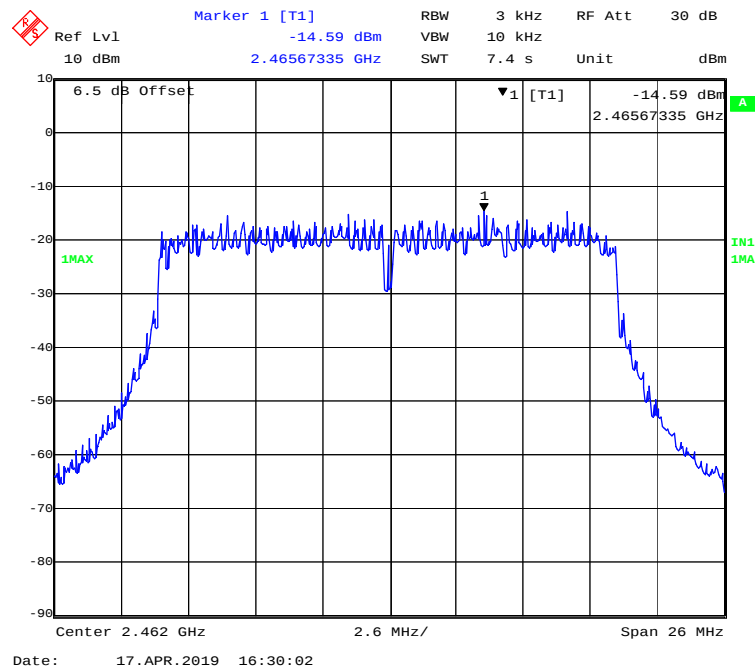
802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



802.11n-HT20 Mode High Channel



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