



TESTING LABORATORY
CERTIFICATE # 4821.01



FCC PART 15.247

TEST REPORT

For

Shenzhen Cudy Technology Co., Ltd.

Room A606, Gaoxinqi Industrial Park, Liuxianyi Road,
Baoan 67 District, Shenzhen, China, 518101

FCC ID: 2APRGRT01

Report Type: Original Report	Product Type: AX1800 Gigabit Dual Band Wi-Fi 6 Router
Report Number: <u>SZ4210425-13605E-00A</u>	
Report Date: <u>2021-08-10</u>	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	AX1800 Gigabit Dual Band Wi-Fi 6 Router
Tested Model	X6
Multiple Models	WR2100, LT500
Model Differences	Refer to the DoS letter
Frequency Range	Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Power	Wi-Fi: 22.39dBm(802.11b), 24.79dBm(802.11g) 24.41dBm(802.11n-HT20), 23.56dBm(802.11n-HT40) 27.2dBm(802.11ax20), 26.2dBm(802.11ax40)
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	3dBi(It is provided by the applicant)
Voltage Range	DC12V from Adapter
Date of Test	2021-05-29 to 2021-08-10
Sample number	SZ4210425-13605E-RF-S1_3QI for CE&RE SZ4210425-13605E-RF-S1_3QK for RF conducted (Assigned by BACL, Shenzhen)
Received date	2021-04-25
Sample/EUT Status	Good condition
Adapter information	Model: GQ18-120150-AU Input: 100-240V 50/60Hz 0.5A Max Output: 12.0V 1.5A

Objective

This report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's 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.

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 KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.
Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	±5%	
RF Output Power with Power meter	±0.73dB	
RF conducted test with spectrum	±1.6dB	
AC Power Lines Conducted Emissions	±1.95dB	
Emissions, Radiated	Below 1GHz Above 1GHz	±4.75dB ±4.88dB
Temperature	±1°C	
Humidity	±6%	
Supply voltages	±0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. 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. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

EUT have two antennas arrangement and can operating in 802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40, 802.11ax20 and 802.11ax40 mode.

For 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 mode, EUT only operate in SISO mode.

For 802.11ax20 and 802.11ax40 mode, EUT can operate in SISO/MIMO mode and the SISO/MIMO mode share same parameter setting.

Total 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

For 802.11b, 802.11g mode, EUT was tested with Channel 1, 7, 11, 12 and 13.

For 802.11n20 mode, EUT was tested with Channel 1, 2, 7, 11, 12 and 13.

For 802.11n40 mode, EUT was tested with Channel 3, 7, 9, 10 and 11.

For 802.11ax20 mode, EUT was tested with Channel 1, 2, 3, 7, 10, 11, 12 and 13.

For 802.11ax40 mode, EUT was tested with Channel 3, 4, 5, 7, 9, 10 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

“QATool_Db”* software was used to the EUT tested

The device was tested with the worst case was performed as below:

Mode	Data rate	Frequency (MHz)	Power Level*
802.11b	1 Mbps	2412	20
		2442	20
		2462	20
		2467	16
		2472	12
802.11g	6 Mbps	2412	17
		2442	20
		2462	17
		2467	15
		2472	12
802.11n-HT20	MCS0	2412	16
		2417	17
		2442	20
		2462	17
		2467	15
		2472	12
802.11n-HT40	MCS0	2422	17
		2442	20
		2452	17
		2457	15
		2462	10
802.11ax20	MCS11	2412	16
		2417	17
		2422	17
		2442	20
		2457	17
		2462	15
		2467	13
		2472	11
802.11ax40	MCS11	2422	15
		2427	16
		2432	16
		2442	19
		2452	16
		2457	14
		2662	10

The software and power level was provided by the applicant.

Duty cycle

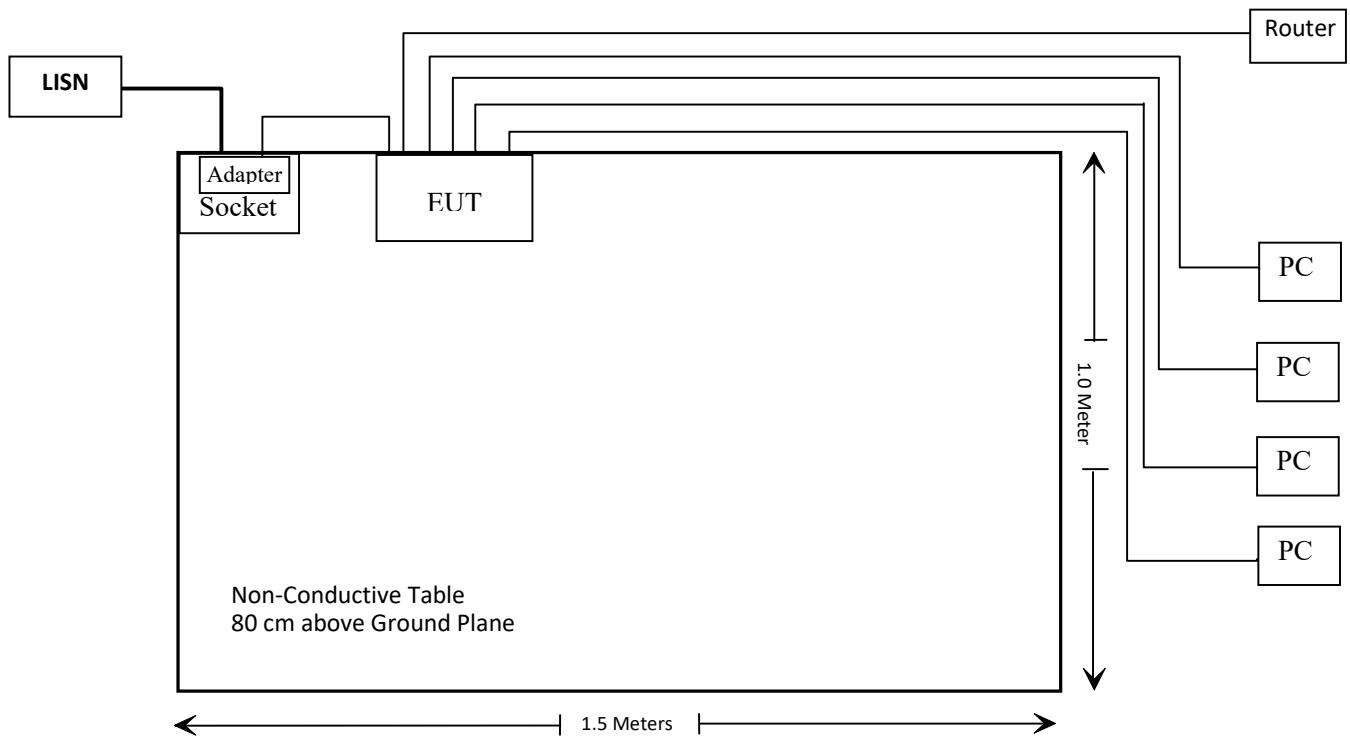
Test Result Compliant. Please refer to the Appendix .

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
SAGEMCOM	Router	F@ST1704N	3c81d839027c
DELL	PC	Latitude E5430	590NLV1
DELL	PC	Latitude 6520	DL0ZCS1
DELL	PC	Latitude E5570	GNDLKC2
DELL	PC	Inspiron 3543	DT7MH52

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-Shielded Un-Detachable AC Cable	1.2	LISN	Socket
Un-Shielded Un-Detachable DC Cable	1.6	Adapter	EUT
Un-Shielded Detachable RJ45 Cable	8.0	EUT	Router
Un-Shielded Detachable RJ45 Cable	8.0	EUT	PC
Un-Shielded Detachable RJ45 Cable	8.0	EUT	PC
Un-Shielded Detachable RJ45 Cable	8.0	EUT	PC
Un-Shielded Detachable RJ45 Cable	8.0	EUT	PC

Block Diagram of Test Setup

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	Maximum Permissible Exposure(MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	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)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2020/11/29	2021/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/28	2021/11/27
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28
SNSD	Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2021/04/20	2022/04/20
Ducommun Technologies	Horn antenna	ARH-4223-02	1007726-02 1304	2020/12/06	2023/12/05

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2020/08/04	2021/08/03
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2021/07/06	2022/07/05
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2020/08/04	2021/08/03
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2021/07/06	2022/07/05
Unknown	RF Cable	Unknown	0501 067	2020/11/29	2021/11/28

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) 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) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 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

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

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = 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)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Mode	Frequency (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2472	3.0	2.00	28.0	630.96	20	0.25	1
5G Wi-Fi	5150-5250	6.0	3.98	24.0	251.19	20	0.20	1
	5725-5850	6.0	3.98	27.0	501.19	20	0.40	1

Note:

- the tune up conducted power was declared by the applicant
- the 2.4G Wi-Fi can transmit at the same time with the 5G Wi-Fi.
- for 5G Wi-Fi, 802.11 ac20/ac40/ac80/ax20/ax40/ax80 mode support Beamforming
 $Directional\ Gain = G_{ANT} + 10\log(N_{ANT}/N_{SS})$,
For the worst case, $N_{SS} = 1$, so: $Directional\ Gain = 3\ dBi + 10\log(2/1) \ dB = 6\ dBi$

Simultaneous transmitting consideration:

The ratio=MPE_{2.4G}/limit + MPE_{5G}/limit=0.25/1+0.40/1=0.65<1.0

So simultaneous exposure comply with the limit.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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 two integral antennas arrangement, which was permanently attached and the antenna gain is 3 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

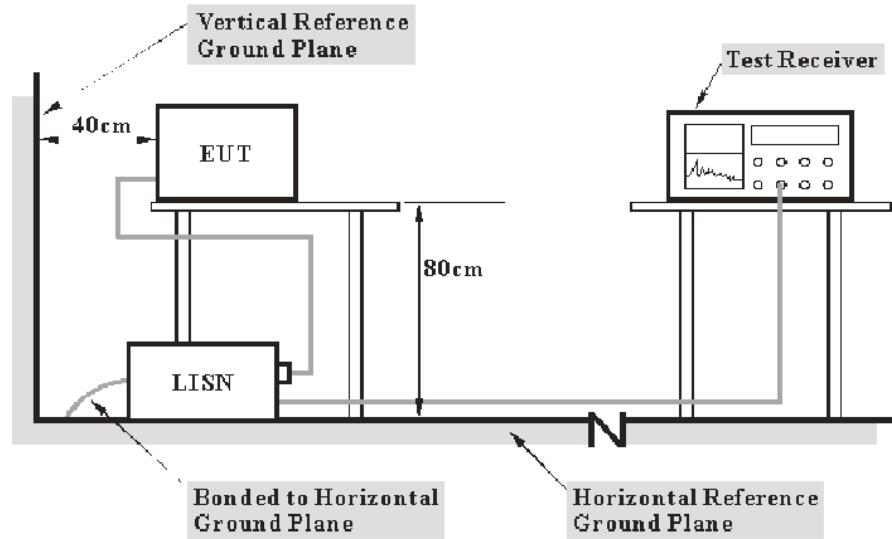
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

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 limits.

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

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:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

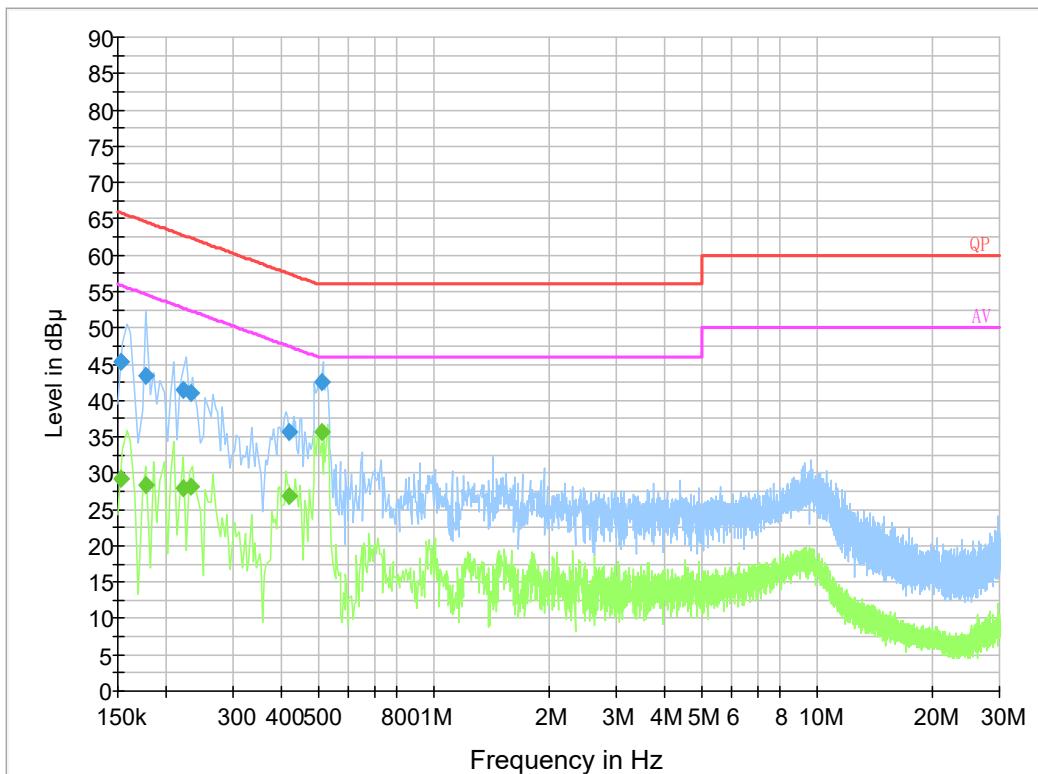
Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	71 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-05-29.

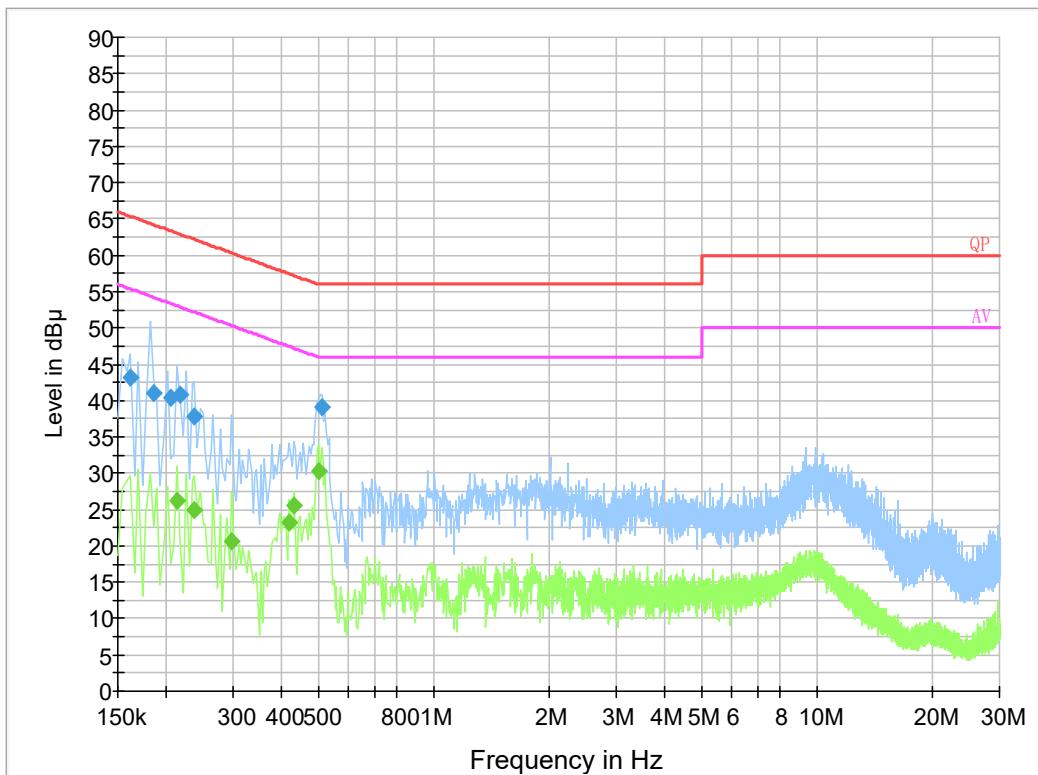
EUT operation mode: Transmitting

AC 120V/60 Hz, Line**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.153500	45.4	9.000	L1	19.8	20.4	65.8
0.177500	43.4	9.000	L1	19.9	21.2	64.6
0.221500	41.6	9.000	L1	19.8	21.2	62.8
0.233500	41.1	9.000	L1	19.8	21.2	62.3
0.420210	35.6	9.000	L1	19.9	21.8	57.4
0.510290	42.6	9.000	L1	19.8	13.4	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.153500	29.2	9.000	L1	19.8	26.6	55.8
0.177500	28.5	9.000	L1	19.9	26.1	54.6
0.221500	27.9	9.000	L1	19.8	24.9	52.8
0.233500	28.2	9.000	L1	19.8	24.1	52.3
0.420210	26.9	9.000	L1	19.9	20.5	47.4
0.510290	35.6	9.000	L1	19.8	10.4	46.0

AC 120V/60 Hz, Neutral**Final Result 1**

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.161500	43.1	9.000	N	19.8	22.3	65.4
0.185500	41.1	9.000	N	19.8	23.1	64.2
0.205500	40.4	9.000	N	19.8	23.0	63.4
0.218501	40.9	9.000	N	19.8	22.0	62.9
0.237500	37.9	9.000	N	19.8	24.3	62.2
0.510410	39.0	9.000	N	19.8	17.0	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.214000	26.2	9.000	N	19.8	26.8	53.0
0.238000	25.0	9.000	N	19.8	27.2	52.2
0.298000	20.6	9.000	N	19.7	29.7	50.3
0.422000	23.1	9.000	N	19.8	24.3	47.4
0.434000	25.6	9.000	N	19.8	21.6	47.2
0.502000	30.3	9.000	N	19.8	15.7	46.0

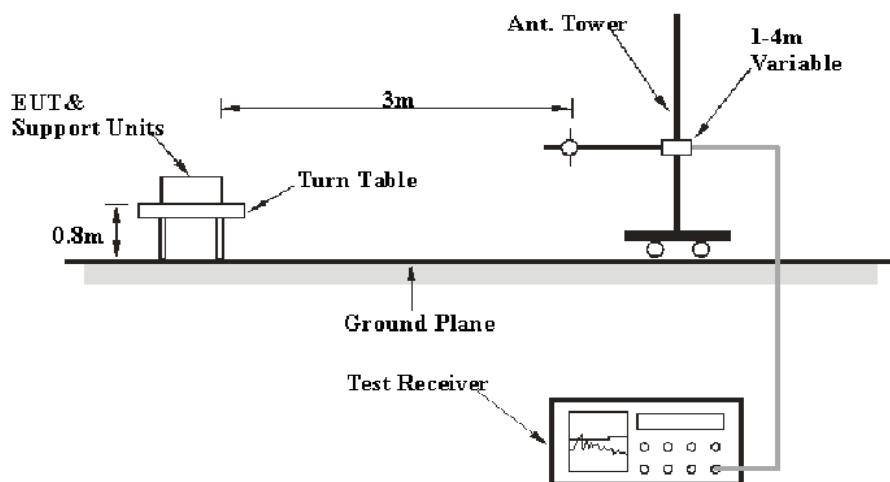
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

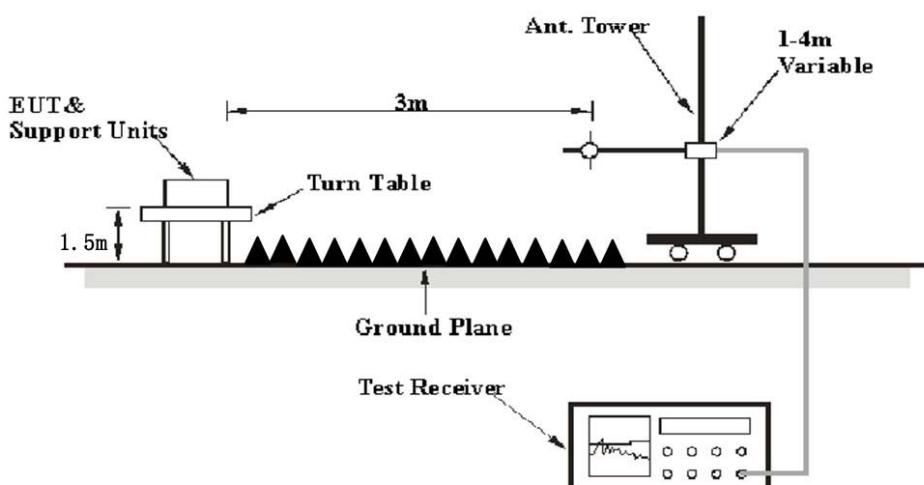
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 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 & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	>1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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 Data

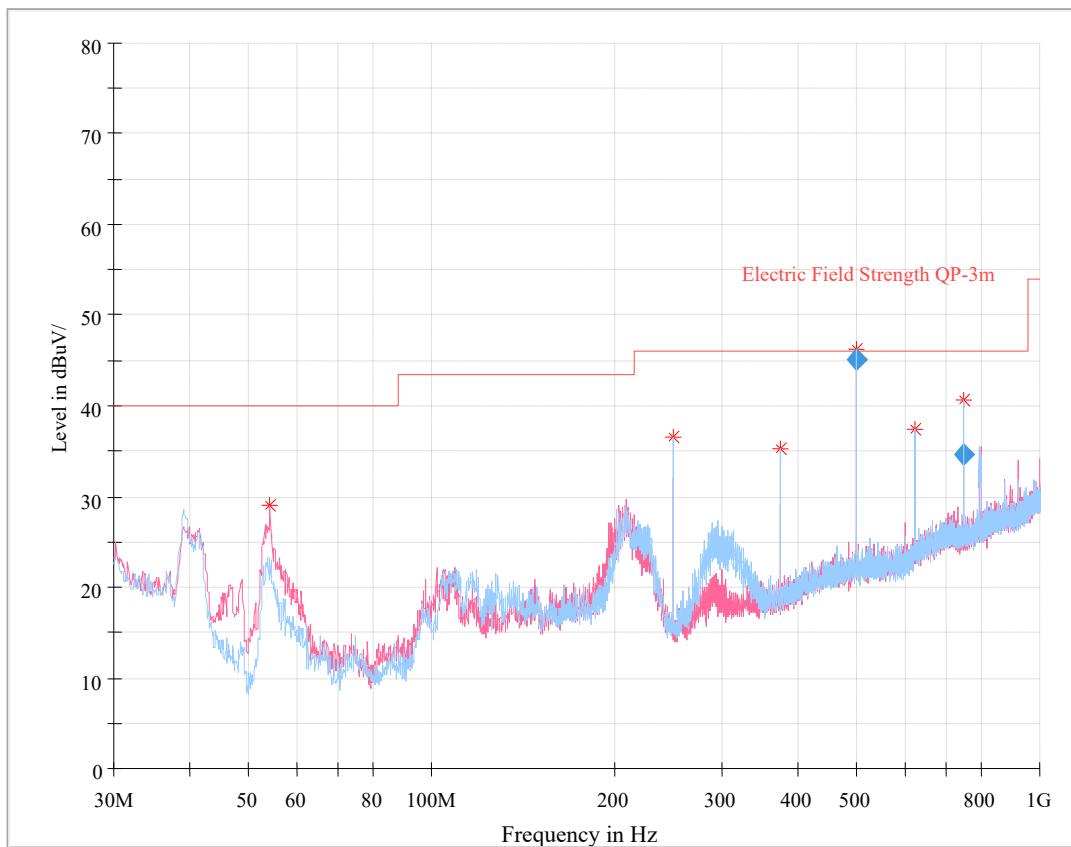
Environmental Conditions

Temperature:	26.1~28 °C
Relative Humidity:	44~60 %
ATM Pressure:	101 kPa

The testing was performed by Zero Yan on 2021-05-29 for below 1GHz and Dio Ding on 2021-07-07 for above 1GHz.

EUT operation mode: Transmitting

30 MHz~1 GHz: (worst case is 802.11ax20, 2442MHz)



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
499.965000	45.17	46.00	0.83	181.0	H	288.0	-5.0
749.991125	34.65	46.00	11.35	109.0	H	286.0	-1.7

Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
54.128750	28.96	40.00	11.04	100.0	V	193.0
249.947500	36.60	46.00	9.40	100.0	H	189.0
374.956250	35.18	46.00	10.82	100.0	H	222.0
624.973750	37.52	46.00	8.48	200.0	V	199.0

Note: QP measurement not performed when the PK value is more than 6dB lower than limit.

1 GHz-25 GHz (Wi-Fi):**802.11b Mode:** (Pre-scan antenna 1 and antenna 2, the worst case is Antenna 1)

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2317.07	32.07	PK	339	1.2	V	31.64	63.71	74	10.29
2317.07	21.03	Ave.	339	1.2	V	31.64	52.67	54	1.33
2496.50	29.62	PK	114	1.3	V	32.13	61.75	74	12.25
2496.50	14.98	Ave.	114	1.3	V	32.13	47.11	54	6.89
4824.00	51.81	PK	231	2.1	V	5.40	57.21	74	16.79
4824.00	46.79	Ave.	231	2.1	V	5.40	52.19	54	1.81
Middle Channel (2442MHz)									
4884.00	50.29	PK	33	1.9	V	6.43	56.72	74	17.28
4884.00	46.92	Ave.	33	1.9	V	6.43	53.35	54	0.65
High channel (2462 MHz)									
2371.19	28.55	PK	72	1.2	V	31.87	60.42	74	13.58
2371.19	14.67	Ave.	72	1.2	V	31.87	46.54	54	7.46
2487.14	31.13	PK	124	1.7	V	32.13	63.26	74	10.74
2487.14	17.36	Ave.	124	1.7	V	32.13	49.49	54	4.51
4924.00	50.73	PK	138	1.9	V	6.43	57.16	74	16.84
4924.00	46.91	Ave.	138	1.9	V	6.43	53.34	54	0.66
High Channel(2467 MHz)									
2387.80	28.75	PK	110	2.1	V	31.87	60.62	74	13.38
2387.80	15.01	Ave.	110	2.1	V	31.87	46.88	54	7.12
2484.75	30.77	PK	298	2.3	V	32.13	62.90	74	11.10
2484.75	20.11	Ave.	298	2.3	V	32.13	52.24	54	1.76
4934.00	48.19	PK	146	1.1	V	6.43	54.62	74	19.38
4934.00	43.78	Ave.	146	1.1	V	6.43	50.21	54	3.79
High Channel(2472 MHz)									
2333.56	28.76	PK	38	2.4	V	31.64	60.40	74	13.60
2333.56	14.71	Ave.	38	2.4	V	31.64	46.35	54	7.65
2483.66	31.13	PK	357	1.5	V	32.13	63.26	74	10.74
2483.66	20.38	Ave.	357	1.5	V	32.13	52.51	54	1.49
4944.00	45.86	PK	139	1.9	V	6.43	52.29	74	21.71
4944.00	34.71	Ave.	139	1.9	V	6.43	41.14	54	12.86

802.11g Mode: (Pre-scan antenna 1 and antenna 2, the worst case is Antenna 1)

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2389.59	40.25	PK	343	1.5	V	31.87	72.12	74	1.88
2389.59	17.99	Ave.	343	1.5	V	31.87	49.86	54	4.14
2489.82	28.45	PK	253	2.4	V	32.13	60.58	74	13.42
2489.82	15.69	Ave.	253	2.4	V	32.13	47.82	54	6.18
4824.00	45.79	PK	204	1.3	V	5.40	51.19	74	22.81
4824.00	32.01	Ave.	204	1.3	V	5.40	37.41	54	16.59
Middle Channel (2442 MHz)									
4884.00	50.19	PK	187	1.9	V	6.43	56.62	74	17.38
4884.00	36.98	Ave.	187	1.9	V	6.43	43.41	54	10.59
High Channel (2462 MHz)									
2326.61	29.05	PK	349	1.1	V	31.64	60.69	74	13.31
2326.61	15.78	Ave.	349	1.1	V	31.64	47.42	54	6.58
2489.82	40.07	PK	281	1.3	V	32.13	72.20	74	1.80
2489.82	16.9	Ave.	281	1.3	V	32.13	49.03	54	4.97
4924.00	47.40	PK	78	2.1	V	6.43	53.83	74	20.17
4924.00	33.62	Ave.	78	2.1	V	6.43	40.05	54	13.95
High Channel(2467 MHz)									
2387.51	29.12	PK	56	1.5	V	31.87	60.99	74	13.01
2387.51	15.88	Ave.	56	1.5	V	31.87	47.75	54	6.25
2485.75	41.79	PK	111	1.8	V	32.13	73.92	74	0.08
2485.75	17.89	Ave.	111	1.8	V	32.13	50.02	54	3.98
4934.00	49.01	PK	65	1.7	V	6.43	55.44	74	18.56
4934.00	32.5	Ave.	65	1.7	V	6.43	38.93	54	15.07
High Channel(2472 MHz)									
2386.01	28.54	PK	218	2.0	V	31.87	60.41	74	13.59
2386.01	15.51	Ave.	218	2.0	V	31.87	47.38	54	6.62
2484.06	31.68	PK	11	2.1	V	32.13	63.81	74	10.19
2484.06	20.56	Ave.	11	2.1	V	32.13	52.69	54	1.31
4944.00	44.01	PK	219	1.7	V	6.43	50.44	74	23.56
4944.00	29.89	Ave.	219	1.7	V	6.43	36.32	54	17.68

802.11n-HT20 Mode: (Pre-scan antenna 1 and antenna 2, the worst case is Antenna 1)

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2389.71	38.65	PK	262	1.7	V	31.87	70.52	74	3.48
2389.71	18.05	Ave.	262	1.7	V	31.87	49.92	54	4.08
2490.94	29.81	PK	244	1.4	V	32.13	61.94	74	12.06
2490.94	16.13	Ave.	244	1.4	V	32.13	48.26	54	5.74
4824.00	44.95	PK	56	1.5	V	5.40	50.35	74	23.65
4824.00	29.53	Ave.	56	1.5	V	5.40	34.93	54	19.07
Low Channel(2417MHz)									
2388.09	40.55	PK	300	1.3	V	31.87	72.42	74	1.58
2388.09	16.91	Ave.	300	1.3	V	31.87	48.78	54	5.22
2493.64	29.96	PK	282	2.1	V	32.13	62.09	74	11.91
2493.64	16.04	Ave.	282	2.1	V	32.13	48.17	54	5.83
4834.00	45.59	PK	151	2.4	V	5.40	50.99	74	23.01
4834.00	30.02	Ave.	151	2.4	V	5.40	35.42	54	18.58
Middle Channel (2442 MHz)									
4884.00	48.97	PK	117	1.7	V	6.43	55.40	74	18.60
4884.00	36.09	Ave.	117	1.7	V	6.43	42.52	54	11.48
High Channel (2462 MHz)									
2337.73	29.24	PK	243	2.4	V	31.64	60.88	74	13.12
2337.73	15.74	Ave.	243	2.4	V	31.64	47.38	54	6.62
2486.43	40.03	PK	199	2.3	V	32.13	72.16	74	1.84
2486.43	17.91	Ave.	199	2.3	V	32.13	50.04	54	3.96
4924.00	48.38	PK	273	2.1	V	6.43	54.81	74	19.19
4924.00	32.35	Ave.	273	2.1	V	6.43	38.78	54	15.22
High Channel(2467 MHz)									
2388.01	29.24	PK	172	1.8	V	31.87	61.11	74	12.89
2388.01	16.33	Ave.	172	1.8	V	31.87	48.20	54	5.80
2484.09	41.71	PK	29	1.4	V	32.13	73.84	74	0.16
2484.09	19.73	Ave.	29	1.4	V	32.13	51.86	54	2.14
4934.00	44.17	PK	190	2.5	V	6.43	50.60	74	23.40
4934.00	29.77	Ave.	190	2.5	V	6.43	36.20	54	17.80
High Channel(2472 MHz)									
2386.35	29.02	PK	304	2.1	V	31.87	60.89	74	13.11
2386.35	15.65	Ave.	304	2.1	V	31.87	47.52	54	6.48
2483.61	33.15	PK	135	1.0	V	32.13	65.28	74	8.72
2483.61	20.42	Ave.	135	1.0	V	32.13	52.55	54	1.45
4944.00	43.68	PK	51	1.7	V	6.43	50.11	74	23.89
4944.00	29.73	Ave.	51	1.7	V	6.43	36.16	54	17.84

802.11n-HT40 Mode: (Pre-scan antenna 1 and antenna 2, the worst case is Antenna 1)

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2422 MHz)									
2389.67	40.58	PK	162	1.8	V	31.87	72.45	74	1.55
2389.67	20.38	Ave.	162	1.8	V	31.87	52.25	54	1.75
2484.27	33.52	PK	135	2.1	V	32.13	65.65	74	8.35
2484.27	16.85	Ave.	135	2.1	V	32.13	48.98	54	5.02
4844.00	44.35	PK	142	1.9	V	5.40	49.75	74	24.25
4844.00	29.83	Ave.	142	1.9	V	5.40	35.23	54	18.77
Middle Channel (2442 MHz)									
4884.00	48.25	PK	277	1.8	V	6.43	54.68	74	19.32
4884.00	34.24	Ave.	277	1.8	V	6.43	40.67	54	13.33
High Channel (2452 MHz)									
2389.02	33.62	PK	27	2.0	V	31.87	65.49	74	8.51
2389.02	16.98	Ave.	27	2.0	V	31.87	48.85	54	5.15
2483.89	40.65	PK	353	1.5	V	32.13	72.78	74	1.22
2483.89	20.54	Ave.	353	1.5	V	32.13	52.67	54	1.33
4904.00	44.46	PK	57	2.0	V	6.43	50.89	74	23.11
4904.00	30.19	Ave.	57	2.0	V	6.43	36.62	54	17.38
High Channel(2457 MHz)									
2379.71	35.77	PK	323	2.1	V	31.87	67.64	74	6.36
2379.71	17.81	Ave.	323	2.1	V	31.87	49.68	54	4.32
2484.59	41.22	PK	340	1.6	V	32.13	73.35	74	0.65
2484.59	21.59	Ave.	340	1.6	V	32.13	53.72	54	0.28
4914.00	45.99	PK	34	2.0	V	6.43	52.42	74	21.58
4914.00	30.12	Ave.	34	2.0	V	6.43	36.55	54	17.45
High Channel(2462 MHz)									
2387.40	28.78	PK	117	2.0	V	31.87	60.65	74	13.35
2387.40	15.85	Ave.	117	2.0	V	31.87	47.72	54	6.28
2483.56	39.05	PK	30	1.8	V	32.13	71.18	74	2.82
2483.56	20.39	Ave.	30	1.8	V	32.13	52.52	54	1.48
4924.00	44.56	PK	44	1.7	V	6.43	50.99	74	23.01
4924.00	29.76	Ave.	44	1.7	V	6.43	36.19	54	17.81

802.11ax20 Mode: (the worst case is MIMO mode)

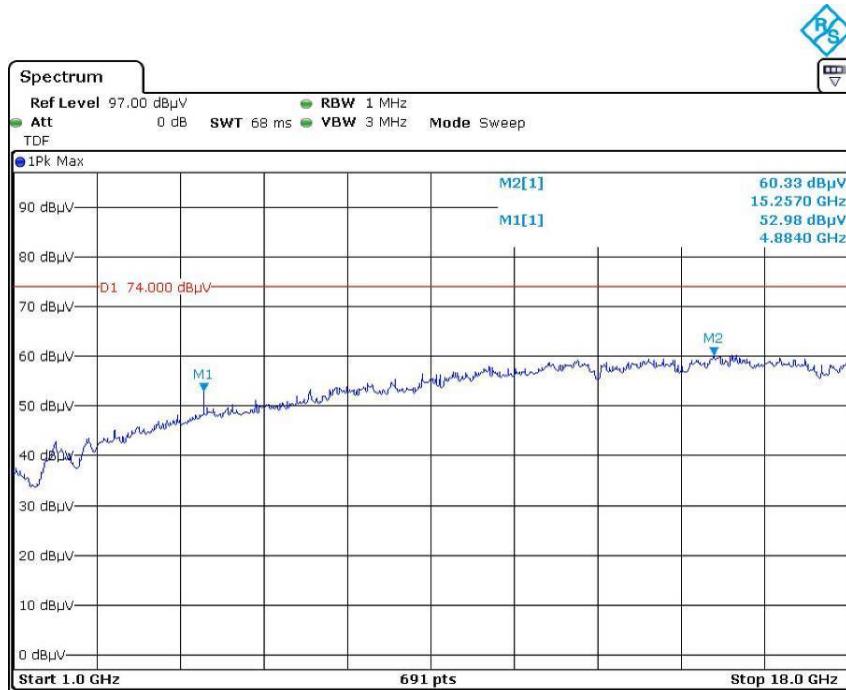
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2385.66	39.75	PK	279	1.9	V	31.87	71.62	74	2.38
2385.66	18.15	Ave.	279	1.9	V	31.87	50.02	54	3.98
2493.02	30.2	PK	186	1.3	V	32.13	62.33	74	11.67
2493.02	16.23	Ave.	186	1.3	V	32.13	48.36	54	5.64
4824.00	46.46	PK	241	1.9	V	5.40	51.86	74	22.14
4824.00	29.78	Ave.	241	1.9	V	5.40	35.18	54	18.82
Low Channel(2417MHz)									
2387.99	42.11	PK	341	2.3	V	31.87	73.98	74	0.02
2387.99	19.99	Ave.	341	2.3	V	31.87	51.86	54	2.14
2491.07	31.01	PK	294	2.4	V	32.13	63.14	74	10.86
2491.07	17.99	Ave.	294	2.4	V	32.13	50.12	54	3.88
4834.00	46.09	PK	243	1.7	V	5.40	51.49	74	22.51
4834.00	29.79	Ave.	243	1.7	V	5.40	35.19	54	18.81
Low Channel(2422MHz)									
2386.12	40.89	PK	117	1.6	V	31.87	72.76	74	1.24
2386.12	18.32	Ave.	117	1.6	V	31.87	50.19	54	3.81
2484.87	30.48	PK	338	2.2	V	32.13	62.61	74	11.39
2484.87	17.09	Ave.	338	2.2	V	32.13	49.22	54	4.78
4844.00	45.84	PK	107	1.8	V	5.40	51.24	74	22.76
4844.00	29.61	Ave.	107	1.8	V	5.40	35.01	54	18.99
Middle Channel (2442MHz)									
4884.00	47.99	PK	164	1.7	V	6.43	54.42	74	19.58
4884.00	33.87	Ave.	164	1.7	V	6.43	40.30	54	13.70
High Channel (2457 MHz)									
2368.18	29.32	PK	337	2.3	V	31.87	61.19	74	12.81
2368.18	16.18	Ave.	337	2.3	V	31.87	48.05	54	5.95
2489.71	40.57	PK	261	1.5	V	32.13	72.70	74	1.30
2489.71	19.28	Ave.	261	1.5	V	32.13	51.41	54	2.59
4914.00	46.07	PK	78	1.9	V	6.43	52.50	74	21.50
4914.00	29.90	Ave.	78	1.9	V	6.43	36.33	54	17.67
High Channel(2462MHz)									
2345.97	29.89	PK	10	2.3	V	31.64	61.53	74	12.47
2345.97	16.73	Ave.	10	2.3	V	31.64	48.37	54	5.63
2485.22	41.59	PK	290	1.3	V	32.13	73.72	74	0.28
2485.22	21.51	Ave.	290	1.3	V	32.13	53.64	54	0.36
4924.00	46.79	PK	151	1.2	V	6.43	53.22	74	20.78
4924.00	30.10	Ave.	151	1.2	V	6.43	36.53	54	17.47

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
High Channel(2467MHz)									
2382.00	32.17	PK	103	2.4	H	31.87	64.04	74	9.96
2382.00	18.11	Ave.	103	2.4	H	31.87	49.98	54	4.02
2483.77	41.69	PK	186	2.0	H	32.13	73.82	74	0.18
2483.77	21.51	Ave.	186	2.0	H	32.13	53.64	54	0.36
4934.00	47.88	PK	24	1.7	V	6.43	54.31	74	19.69
4934.00	31.13	Ave.	24	1.7	V	6.43	37.56	54	16.44
High Channel(2472 MHz)									
2360.54	28.76	PK	103	1.3	V	31.77	60.53	74	13.47
2360.54	15.72	Ave.	103	1.3	V	31.77	47.49	54	6.51
2483.82	32.74	PK	128	1.3	V	32.13	64.87	74	9.13
2483.82	20.47	Ave.	128	1.3	V	32.13	52.60	54	1.40
4944.00	44.79	PK	11	2.1	V	6.43	51.22	74	22.78
4944.00	29.5	Ave.	11	2.1	V	6.43	35.93	54	18.07

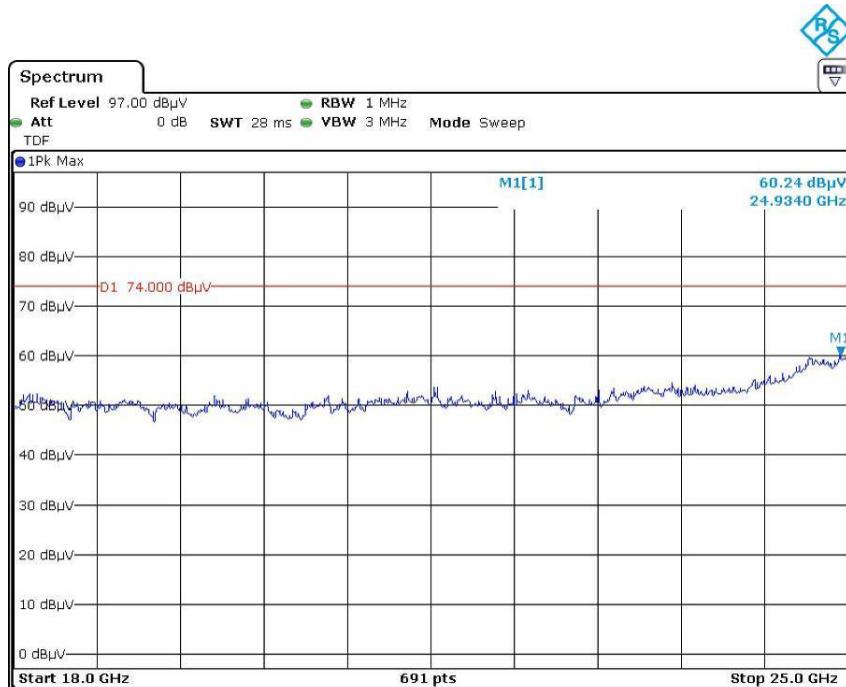
802.11ax40 Mode: (the worst case is MIMO mode)

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2422 MHz)									
2366.32	37.15	PK	83	2.3	V	31.87	69.02	74	4.98
2366.32	20.02	Ave.	83	2.3	V	31.87	51.89	54	2.11
2484.97	33.95	PK	70	2.1	V	32.13	66.08	74	7.92
2484.97	17.15	Ave.	70	2.1	V	32.13	49.28	54	4.72
4844.00	44.28	PK	294	2.2	V	5.40	49.68	74	24.32
4844.00	30.42	Ave.	294	2.2	V	5.40	35.82	54	18.18
Low Channel(2427MHz)									
2389.71	41.01	PK	53	1.0	V	31.87	72.88	74	1.12
2389.71	22.07	Ave.	53	1.0	V	31.87	53.94	54	0.06
2483.66	41.65	PK	318	2.4	V	32.13	73.78	74	0.22
2483.66	21.04	Ave.	318	2.4	V	32.13	53.17	54	0.83
4854.00	47.21	PK	274	1.8	V	6.43	53.64	74	20.36
4854.00	32.75	Ave.	274	1.8	V	6.43	39.18	54	14.82
Low Channel(2432MHz)									
2388.78	40.61	PK	202	1.7	V	31.87	72.48	74	1.52
2388.78	20.08	Ave.	202	1.7	V	31.87	51.95	54	2.05
2488.29	40.15	PK	272	1.9	V	32.13	72.28	74	1.72
2488.29	19.44	Ave.	272	1.9	V	32.13	51.57	54	2.43
4864.00	45.71	PK	329	1.7	V	6.43	52.14	74	21.86
4864.00	31.01	Ave.	329	1.7	V	6.43	37.44	54	16.56
Middle Channel (2442MHz)									
4884.00	48.01	PK	306	2.0	V	6.43	54.44	74	19.56
4884.00	34.41	Ave.	306	2.0	V	6.43	40.84	54	13.16
High Channel (2452 MHz)									
2388.67	35.88	PK	30	1.2	V	31.87	67.75	74	6.25
2388.67	17.39	Ave.	30	1.2	V	31.87	49.26	54	4.74
2490.05	40.43	PK	344	1.7	V	32.13	72.56	74	1.44
2490.05	20.71	Ave.	344	1.7	V	32.13	52.84	54	1.16
4904.00	46.44	PK	269	1.4	V	6.43	52.87	74	21.13
4904.00	29.79	Ave.	269	1.4	V	6.43	36.22	54	17.78
High Channel(2457 MHz)									
2329.71	36.36	PK	248	2.0	V	31.64	68.00	74	6.00
2329.71	18.22	Ave.	248	2.0	V	31.64	49.86	54	4.14
2489.27	41.79	PK	266	2.1	V	32.13	73.92	74	0.08
2489.27	21.75	Ave.	266	2.1	V	32.13	53.88	54	0.12
4914.00	48.01	PK	38	1.3	V	6.43	54.44	74	19.56
4914.00	29.89	Ave.	38	1.3	V	6.43	36.32	54	17.68

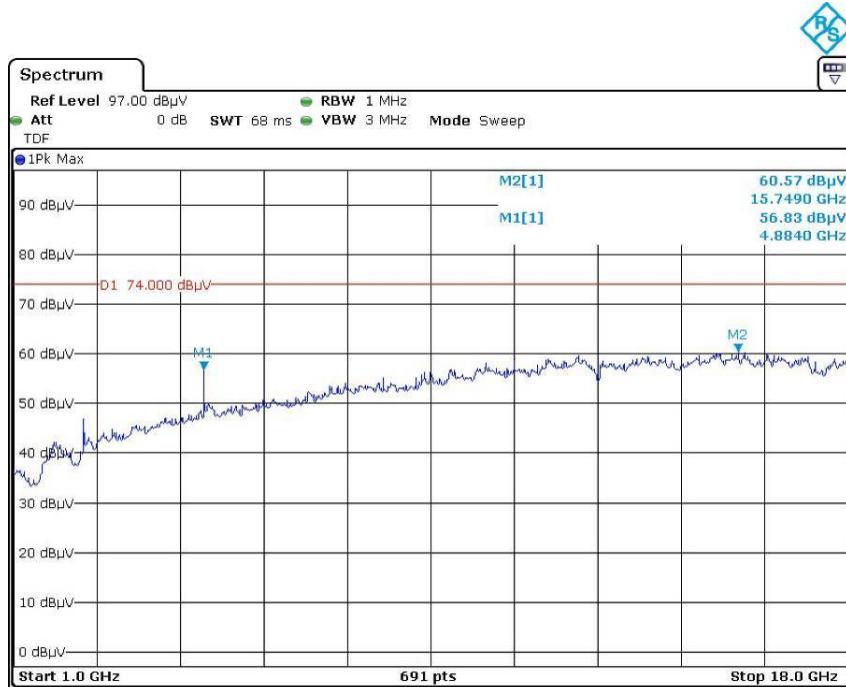
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
High Channel(2462 MHz)									
2388.55	31.11	PK	265	2.3	V	31.87	62.98	74	11.02
2388.55	16.28	Ave.	265	2.3	V	31.87	48.15	54	5.85
2491.75	32.76	PK	354	2.0	V	32.13	64.89	74	9.11
2491.75	20.51	Ave.	354	2.0	V	32.13	52.64	54	1.36
4924.00	43.65	PK	300	1.0	V	6.43	50.08	74	23.92
4924.00	30.15	Ave.	300	1.0	V	6.43	36.58	54	17.42

**Pre-scan with 802.11b Mode, Middle channel
Horizontal**

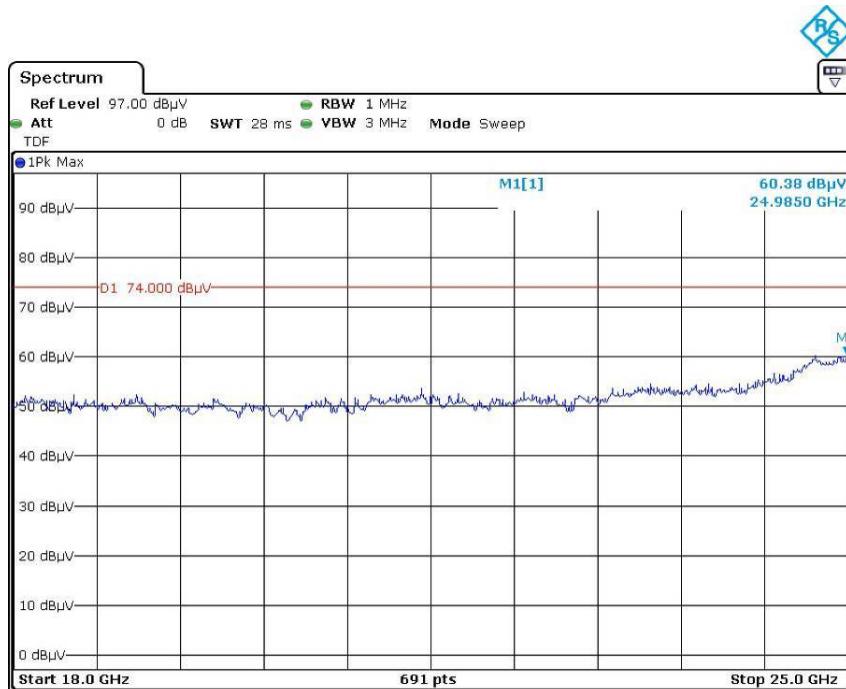
Date: 7.JUL.2021 14:35:53



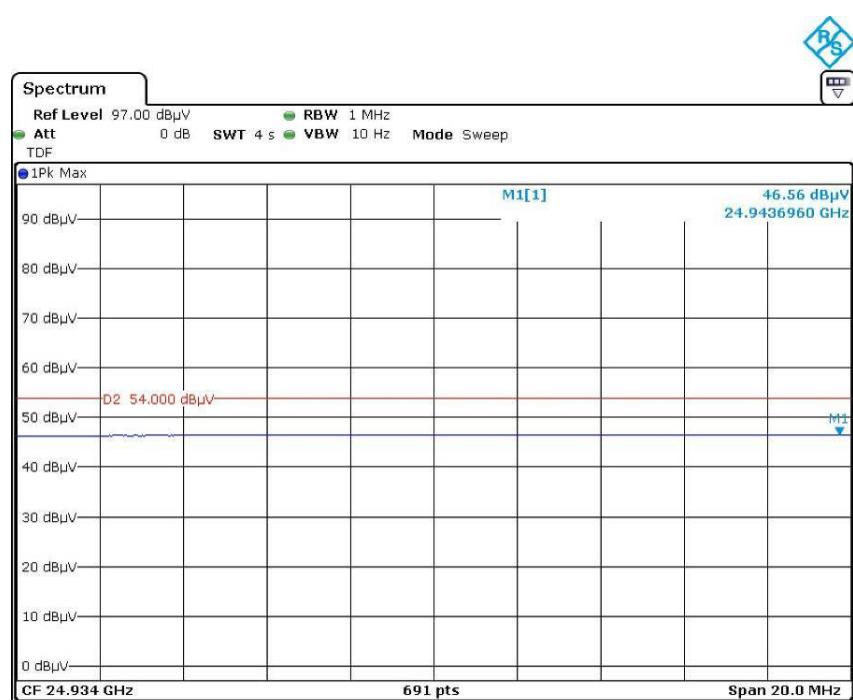
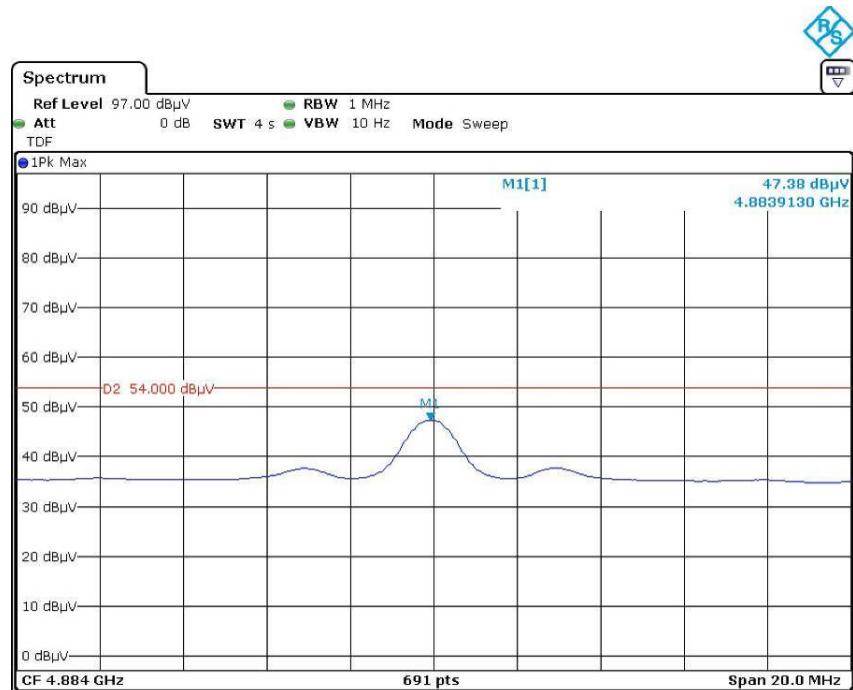
Date: 7.JUL.2021 15:10:00

Vertical

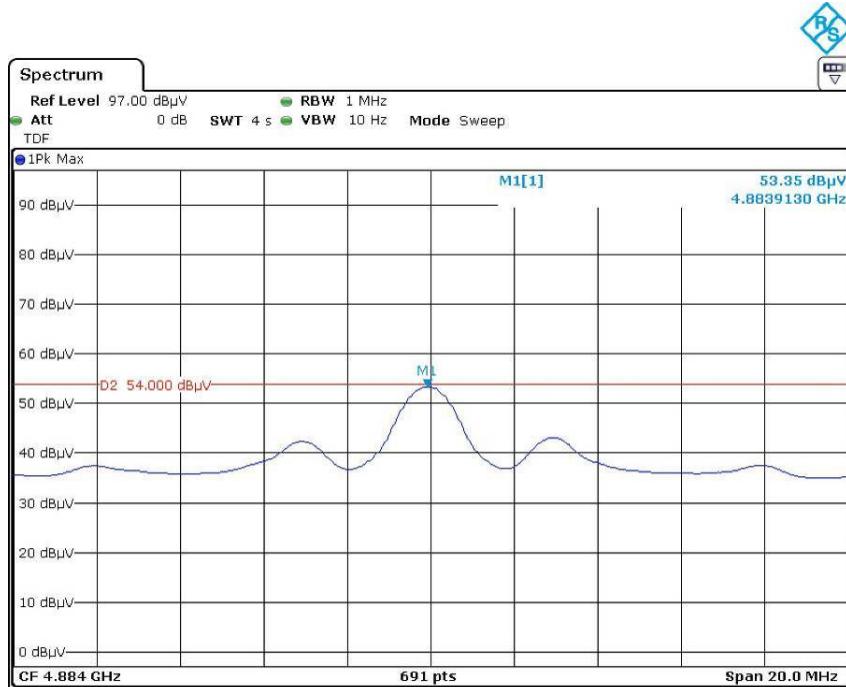
Date: 7.JUL.2021 14:25:35



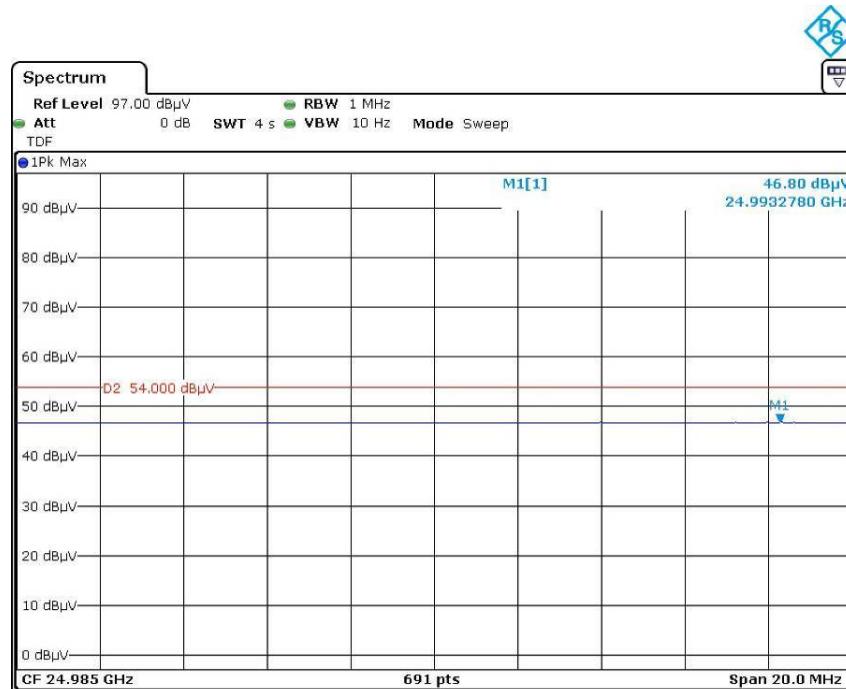
Date: 7.JUL.2021 15:00:12

**Pre-scan for Average
Horizontal**

Vertical



Date: 7.JUL.2021 14:30:23



Date: 7.JUL.2021 15:04:39

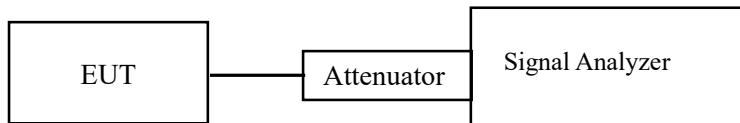
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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

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 it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-07-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

Note: for ax20/ax40 mode, the worst case antenna 1 was recorded.

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

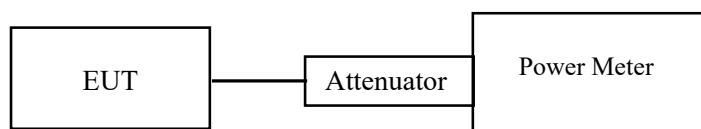
Applicable Standard

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.

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 one test equipment.
3. Add a correction factor to the display.



Test Data Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-07-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

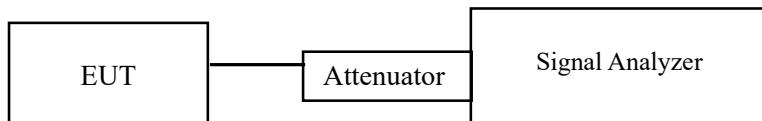
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

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

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-07-10 and 2021-08-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

Note: for ax20/ax40 mode, the worst case antenna 1 was recorded.

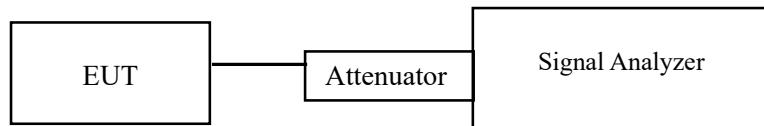
FCC §15.247(e) - POWER SPECTRAL DENSITY

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



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Bravos Zhao on 2021-07-10.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

APPENDIX Wi-Fi

Appendix A: DTS Bandwidth Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.160	0.5	PASS
	Ant2	2412	8.120	0.5	PASS
	Ant1	2442	7.160	0.5	PASS
	Ant2	2442	7.160	0.5	PASS
	Ant1	2462	7.160	0.5	PASS
	Ant2	2462	7.160	0.5	PASS
	Ant1	2467	8.120	0.5	PASS
	Ant2	2467	7.160	0.5	PASS
	Ant1	2472	7.160	0.5	PASS
	Ant2	2472	7.160	0.5	PASS
11G	Ant1	2412	15.200	0.5	PASS
	Ant2	2412	15.200	0.5	PASS
	Ant1	2442	15.240	0.5	PASS
	Ant2	2442	15.560	0.5	PASS
	Ant1	2462	15.160	0.5	PASS
	Ant2	2462	15.440	0.5	PASS
	Ant1	2467	15.200	0.5	PASS
	Ant2	2467	15.200	0.5	PASS
	Ant1	2472	15.200	0.5	PASS
	Ant2	2472	15.200	0.5	PASS
11N20SISO	Ant1	2412	15.200	0.5	PASS
	Ant2	2412	15.160	0.5	PASS
	Ant1	2417	15.200	0.5	PASS
	Ant2	2417	15.200	0.5	PASS
	Ant1	2442	16.040	0.5	PASS
	Ant2	2442	15.240	0.5	PASS
	Ant1	2462	15.200	0.5	PASS
	Ant2	2462	15.200	0.5	PASS
	Ant1	2467	15.200	0.5	PASS
	Ant2	2467	15.200	0.5	PASS
11N40SISO	Ant1	2472	15.560	0.5	PASS
	Ant2	2472	15.160	0.5	PASS
	Ant1	2422	35.280	0.5	PASS
	Ant2	2422	35.280	0.5	PASS
	Ant1	2442	35.200	0.5	PASS
	Ant2	2442	35.280	0.5	PASS
	Ant1	2452	35.280	0.5	PASS
	Ant2	2452	35.280	0.5	PASS
	Ant1	2457	35.360	0.5	PASS
	Ant2	2457	35.280	0.5	PASS
11AX20MIMO	Ant1	2462	35.280	0.5	PASS
		2462	35.200	0.5	PASS
		2412	18.280	0.5	PASS
		2417	18.560	0.5	PASS
		2422	18.600	0.5	PASS
		2442	18.280	0.5	PASS
		2457	18.520	0.5	PASS
		2462	18.360	0.5	PASS
		2467	18.000	0.5	PASS

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11AX40MIMO	Ant1	2422	36.960	0.5	PASS
		2427	36.960	0.5	PASS
		2432	37.520	0.5	PASS
		2442	37.520	0.5	PASS
		2452	37.760	0.5	PASS
		2457	37.520	0.5	PASS
		2462	37.920	0.5	PASS

Note: for AX20/AX40 mode, the worst case ANT 1 was test.

Test Graphs

