



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.247

TEST REPORT

For

Hangzhou Meari Technology Co., Ltd.

Room 604-605, Building 1, No. 768 Jianghong Road, Changhe street, Binjiang District, Hangzhou,
Zhejiang, China

FCC ID: 2AG7C-SNAP20S

Report Type: Original Report	Product Type: BATTERY CAMERA
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TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY.....	5
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	6
EUT EXERCISE SOFTWARE	6
SUPPORT EQUIPMENT LIST AND DETAILS	8
EXTERNAL I/O CABLE.....	8
BLOCK DIAGRAM OF TEST SETUP	9
SUMMARY OF TEST RESULTS.....	11
TEST EQUIPMENT LIST	12
FCC §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)	13
FCC §15.203 - ANTENNA REQUIREMENT.....	14
APPLICABLE STANDARD	14
ANTENNA CONNECTOR CONSTRUCTION	14
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	15
APPLICABLE STANDARD	15
EUT SETUP	15
EMI TEST RECEIVER SETUP.....	15
TEST PROCEDURE	16
FACTOR & OVER LIMIT CALCULATION.....	16
TEST RESULTS SUMMARY	16
TEST DATA	16
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	21
APPLICABLE STANDARD	21
EUT SETUP.....	21
EMI TEST RECEIVER SETUP.....	22
TEST PROCEDURE	22
CORRECTED AMPLITUDE & MARGIN CALCULATION	22
TEST RESULTS SUMMARY	22
TEST DATA	23
FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH	41
APPLICABLE STANDARD	41
TEST PROCEDURE	41
TEST DATA	41
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER.....	48
APPLICABLE STANDARD	48
TEST PROCEDURE	48
TEST DATA	48
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	50
APPLICABLE STANDARD	50
TEST PROCEDURE	50

TEST DATA	50
FCC §15.247(e) - POWER SPECTRAL DENSITY	54
APPLICABLE STANDARD	54
TEST PROCEDURE	54
TEST DATA	54

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Hangzhou Meari Technology Co., Ltd.
Tested Model	Snap 20S
Series Model	Snap 7S, Snap 7T, Snap 20T
Product Type	BATTERY CAMERA
Power Supply	DC 5V from adapter and DC 3.7V from battery
Maximum Output Power:	21.56 dBm
RF Function:	2.4G Wi-Fi
Operating Band/Frequency:	2412-2462 MHz(802.11b/g/n20)
Channel Number:	11(802.11b/g/n20)
Channel Separation:	5 MHz
Modulation Type:	DSSS,OFDM
Antenna Type:	FPC antenna
*Maximum Antenna Gain:	1.57 dBi

*Adapter1 Information:**Model: TPA-46B050100UU**Input: AC 100-240 V~ 50/60Hz, 0.2A**Output: DC 5.0V, 1000mA**Adapter2 Information:**Model: GTA92-0501000US**Input: AC 100-240 V~ 50/60Hz, 0.3A**Output: DC 5.0V,1.0A, 5.0W**Note: The maximum antenna gain was provided by the applicant.**Note: The difference between tested model and series model was explained in the attached declaration letter.***All measurement and test data in this report was gathered from production sample serial number:**RSHA210201002-1(Assigned by the BACL. The EUT supplied by the applicant was received on 2021-02-01)*

Objective

This report is prepared on behalf of *Hangzhou Meari Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions' rules.

The tests were performed in order to determine Compliant 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.

Test Methodology

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

All emissions measurement was performed at Bay Area Compliant 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%

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: XCOM V2.0

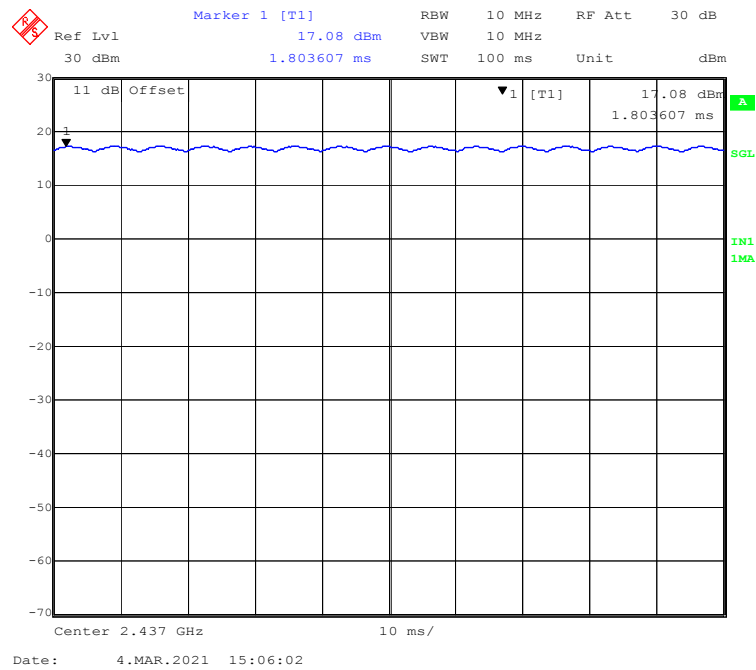
Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	*Power Level Setting
802.11b	1 Mbps	-25
802.11g	6 Mbps	-40
802.11n-HT20	MCS0	-40

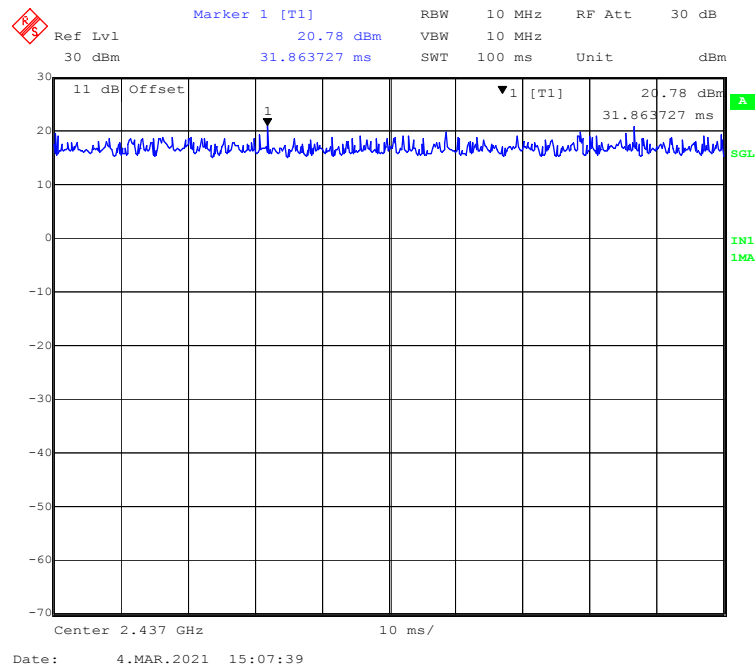
Note: The power level setting was declared by the applicant.

Duty Cycle:

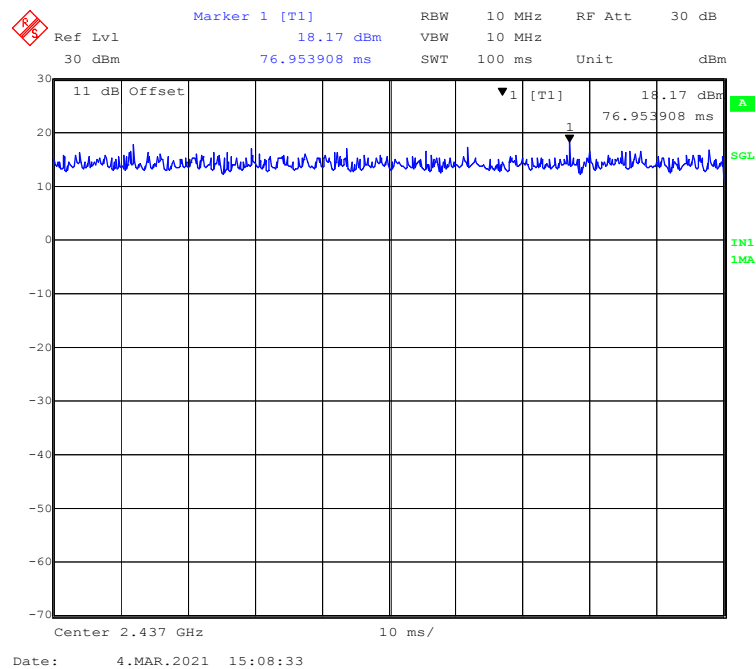
802.11b Mode Middle Channel



802.11g Mode Middle Channel



802.11n-HT20 Mode Middle Channel



Mode	Duty Cycle (%)	T(ms)	1/T(kHz)	10log(1/x)
802.11b	100	/	/	0
802.11g	100	/	/	0
802.11n-HT20	100	/	/	0

Note: “x” means the Duty Cycle.

Support Equipment List and Details

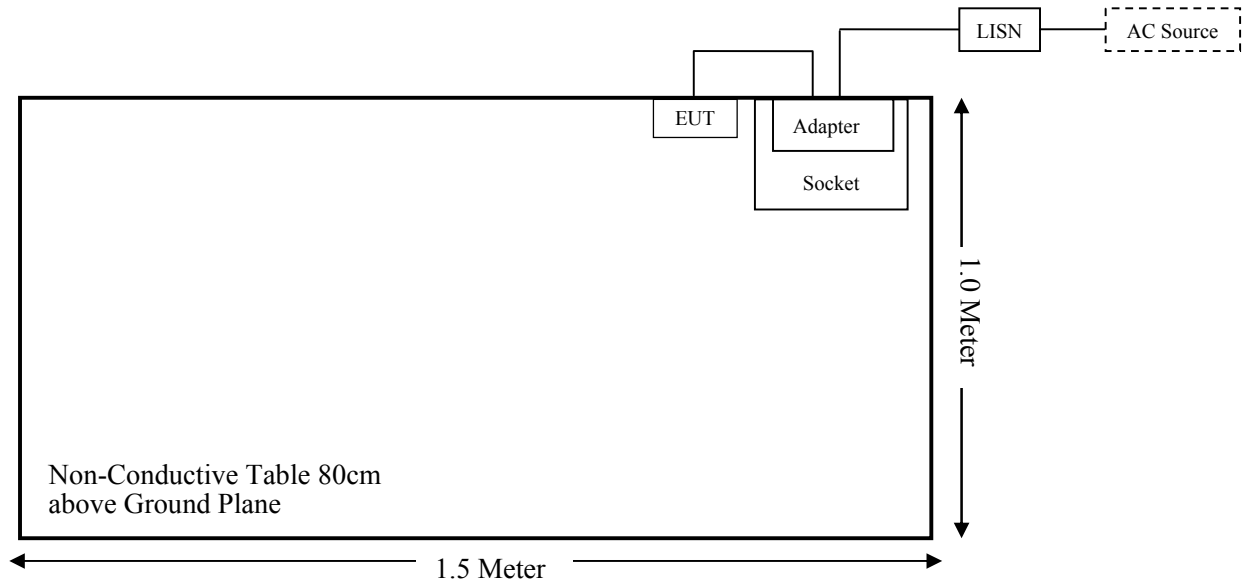
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

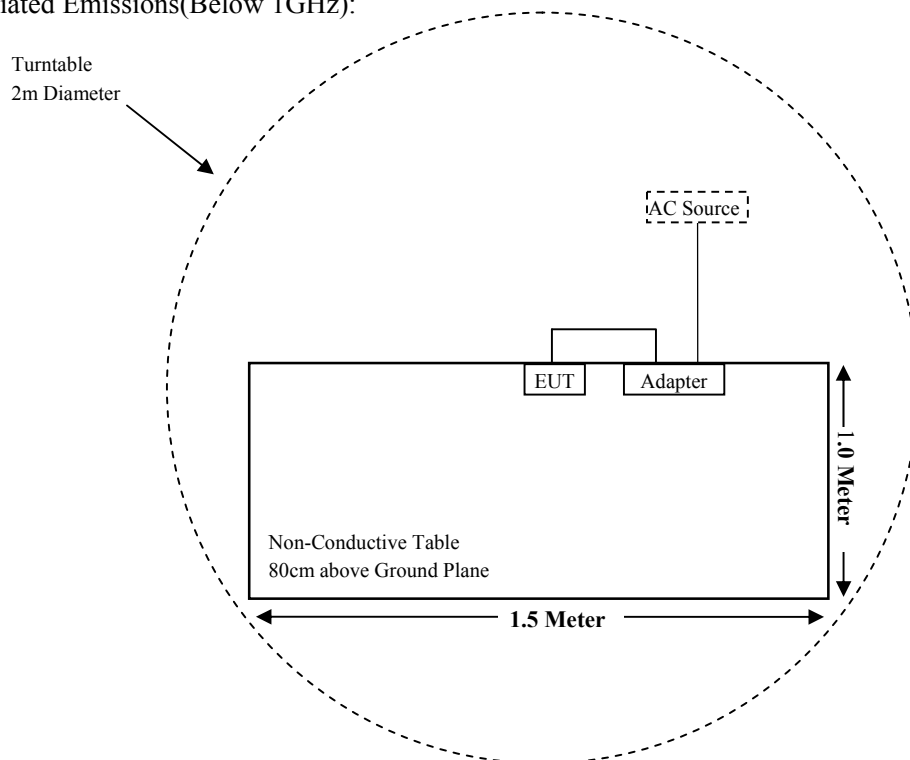
Cable Description	Length(m)	From Port	To
USB Cable	1.0	EUT	Adapter
Power Cable	1.0	Adapter	LISN/AC Source

Block Diagram of Test Setup

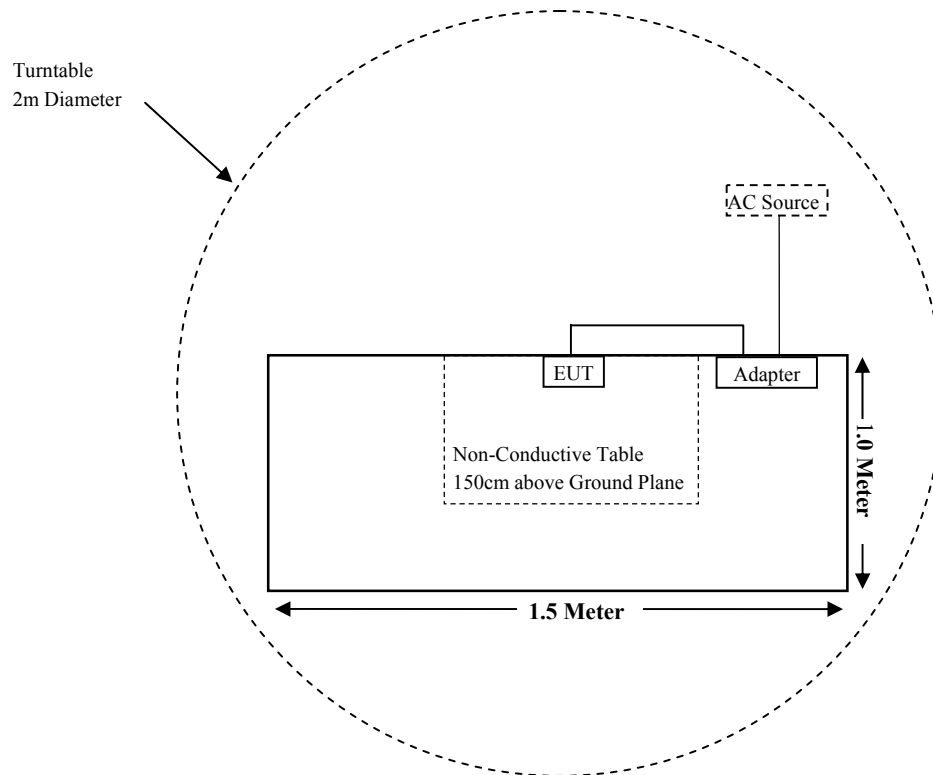
For Conducted Emissions:



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)	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
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2020-12-14	2021-12-13
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2020-08-05	2023-08-04
Sonoma Instrument	Pre-amplifier	310N	171205	2020-08-14	2021-08-13
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2020-04-01	2021-03-31
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2020-07-15	2023-07-14
ETS-LINDGREN	Horn Antenna	3116	2516	2020-01-07	2023-01-06
A.H.Systems, inc	Amplifier	PAM-0118P	512	2020-08-14	2021-08-13
SELECTOR	Amplifier	EM18G40G	060726	2020-03-22	2021-03-21
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2020-08-05	2021-08-04
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2020-12-12	2021-12-11
MICRO-COAX	Coaxial Cable	Cable-11	011	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2020-08-15	2021-08-14
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	ESIB 26	100146/026	2020-12-14	2021-12-13
Agilent	Power Sensor	N1921A	MY54210024	2020-11-18	2021-11-17
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Hangzhou Meari	RF Cable	Hangzhou Meari C01	C01	Each Time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2020-07-28	2021-07-27
Rohde & Schwarz	LISN	ENV216	3560655016	2020-11-27	2021-11-26
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	0357.8810.54	2020-08-10	2021-08-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2020-08-15	2021-08-14

* **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 §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) 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;

According to §1.1310 and §2.1091 RF exposure is calculated.

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 Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2412~2462	1.57	1.44	19.00	79.43	20	0.0228	1.0
802.11g		1.57	1.44	22.00	158.49	20	0.0454	1.0
802.11n-HT20		1.57	1.44	20.00	100.00	20	0.0286	1.0

Note: The Tune-up output power was declared by the Manufacturer.

Conclusion: The device meets MPE at distance 20cm.

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 Compliant 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 FPC antenna for Wi-Fi and the antenna gain is 1.57 dBi, the antenna was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

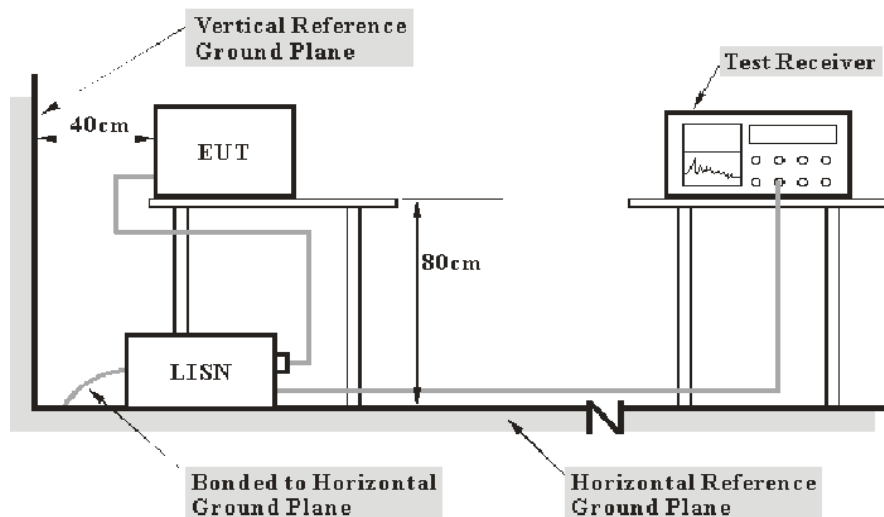
Result: Compliant.

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:

<u>Frequency Range</u>	<u>IF B/W</u>
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.

Factor & Over Limit 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:

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

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of 7 dB means the emission is 7 dB above the limit. The equation for over limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Test Results Summary

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

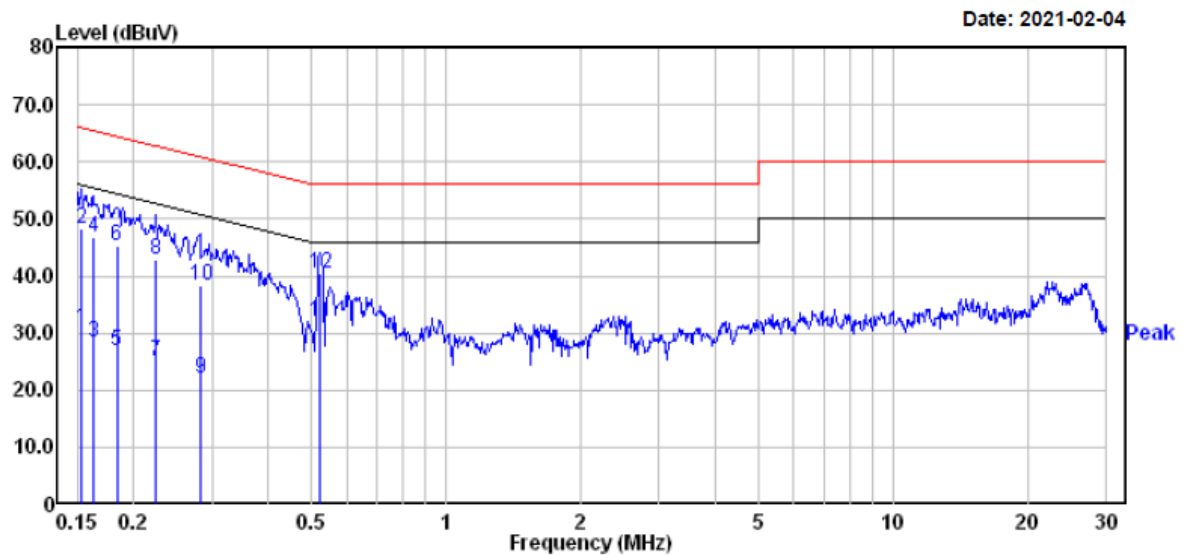
Test Data

Environmental Conditions

Temperature:	25.1°C
Relative Humidity:	50 %
ATM Pressure:	102.3 kPa

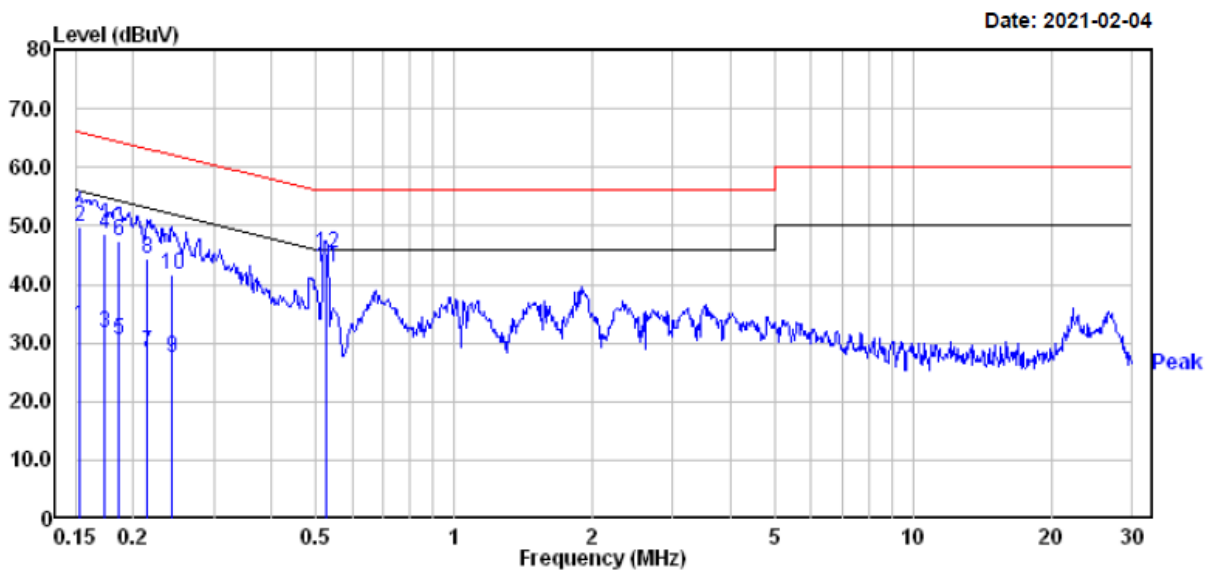
The testing was performed by CK Huang on 2021-02-04.

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

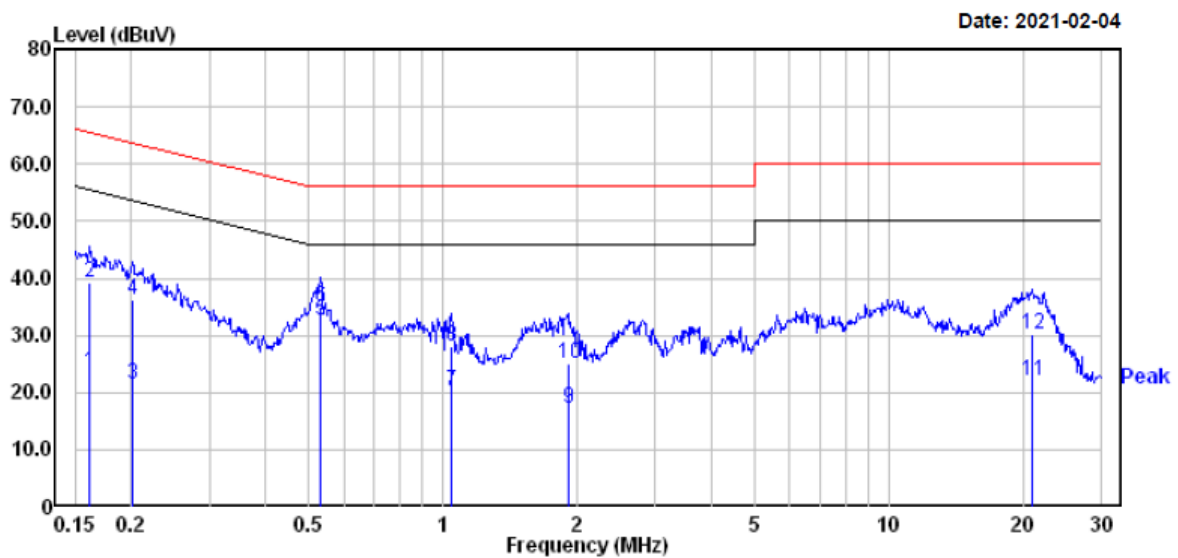
For Adapter1:**AC 120V/60 Hz, Line**

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	11.00	19.82	30.82	55.87	-25.05	Average
2	0.152	28.50	19.82	48.32	65.87	-17.55	QP
3	0.162	8.60	19.83	28.43	55.34	-26.91	Average
4	0.162	26.90	19.83	46.73	65.34	-18.61	QP
5	0.183	7.00	19.83	26.83	54.33	-27.50	Average
6	0.183	25.40	19.83	45.23	64.33	-19.10	QP
7	0.224	5.30	19.82	25.12	52.66	-27.54	Average
8	0.224	23.00	19.82	42.82	62.66	-19.84	QP
9	0.282	2.20	19.82	22.02	50.76	-28.74	Average
10	0.282	18.50	19.82	38.32	60.76	-22.44	QP
11	0.521	12.10	19.76	31.86	46.00	-14.14	Average
12	0.521	20.80	19.76	40.56	56.00	-15.44	QP

AC 120V/60 Hz, Neutral

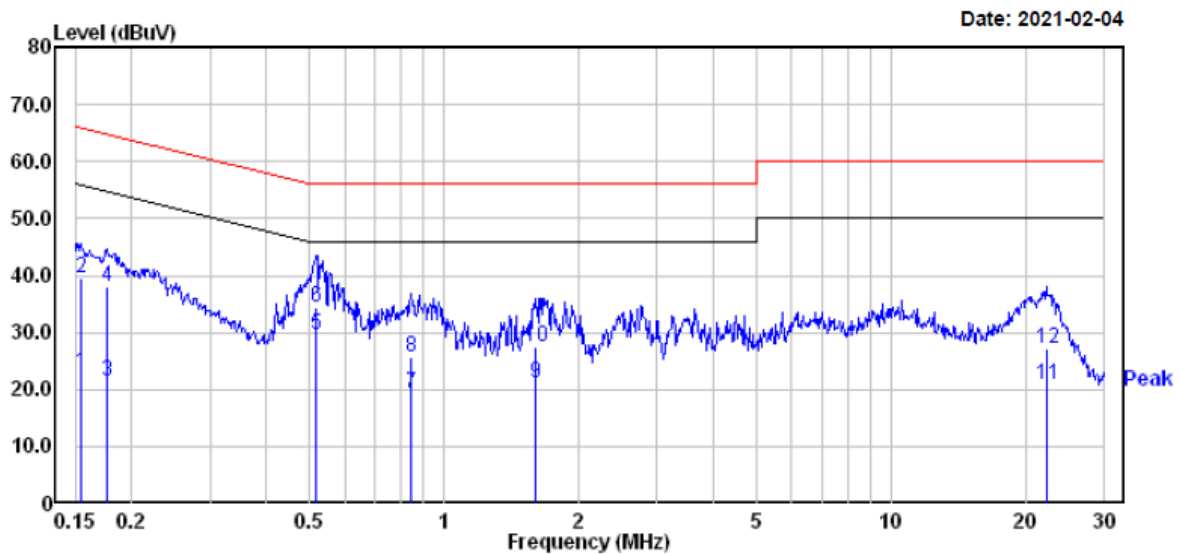


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.153	13.10	19.82	32.92	55.82	-22.90	Average
2	0.153	30.10	19.82	49.92	65.82	-15.90	QP
3	0.173	11.90	19.83	31.73	54.81	-23.08	Average
4	0.173	28.70	19.83	48.53	64.81	-16.28	QP
5	0.186	10.61	19.82	30.43	54.20	-23.77	Average
6	0.186	27.61	19.82	47.43	64.20	-16.77	QP
7	0.214	8.70	19.82	28.52	53.05	-24.53	Average
8	0.214	24.50	19.82	44.32	63.05	-18.73	QP
9	0.243	7.60	19.82	27.42	52.00	-24.58	Average
10	0.243	21.70	19.82	41.52	62.00	-20.48	QP
11	0.527	23.11	19.75	42.86	46.00	-3.14	Average
12	0.527	25.61	19.75	45.36	56.00	-10.64	QP

For Adapter2:**AC 120V/60 Hz, Line**

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.161	3.80	19.83	23.63	55.43	-31.80	Average
2	0.161	19.50	19.83	39.33	65.43	-26.10	QP
3	0.202	1.60	19.82	21.42	53.54	-32.12	Average
4	0.202	16.30	19.82	36.12	63.54	-27.42	QP
5	0.532	12.91	19.75	32.66	46.00	-13.34	Average
6	0.532	15.31	19.75	35.06	56.00	-20.94	QP
7	1.049	0.30	19.82	20.12	46.00	-25.88	Average
8	1.049	8.40	19.82	28.22	56.00	-27.78	QP
9	1.908	-2.60	19.83	17.23	46.00	-28.77	Average
10	1.908	5.10	19.83	24.93	56.00	-31.07	QP
11	21.035	2.20	19.90	22.10	50.00	-27.90	Average
12	21.035	10.30	19.90	30.20	60.00	-29.80	QP

AC 120V/60 Hz, Neutral



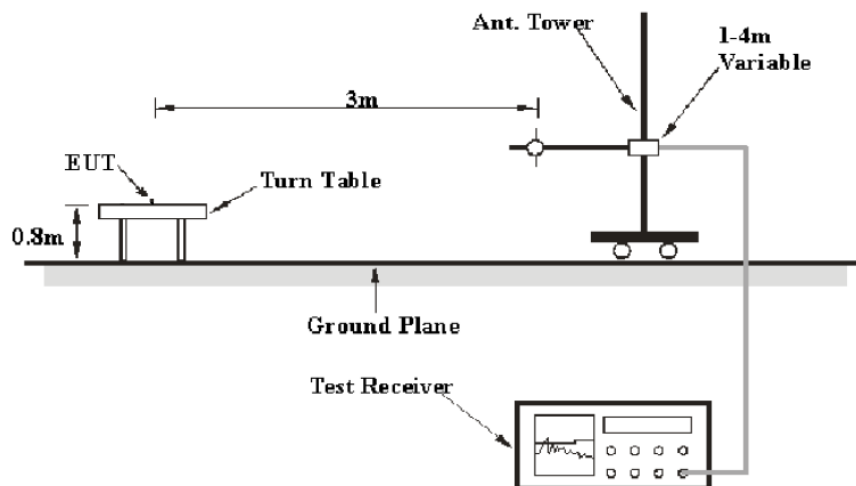
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.154	3.10	19.82	22.92	55.78	-32.86	Average
2	0.154	19.60	19.82	39.42	65.78	-26.36	QP
3	0.176	1.70	19.83	21.53	54.68	-33.15	Average
4	0.176	18.10	19.83	37.93	64.68	-26.75	QP
5	0.518	9.90	19.76	29.66	46.00	-16.34	Average
6	0.518	14.70	19.76	34.46	56.00	-21.54	QP
7	0.844	-0.30	19.71	19.41	46.00	-26.59	Average
8	0.844	6.10	19.71	25.81	56.00	-30.19	QP
9	1.602	1.39	19.85	21.24	46.00	-24.76	Average
10	1.602	7.69	19.85	27.54	56.00	-28.46	QP
11	22.298	1.10	19.83	20.93	50.00	-29.07	Average
12	22.298	7.30	19.83	27.13	60.00	-32.87	QP

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

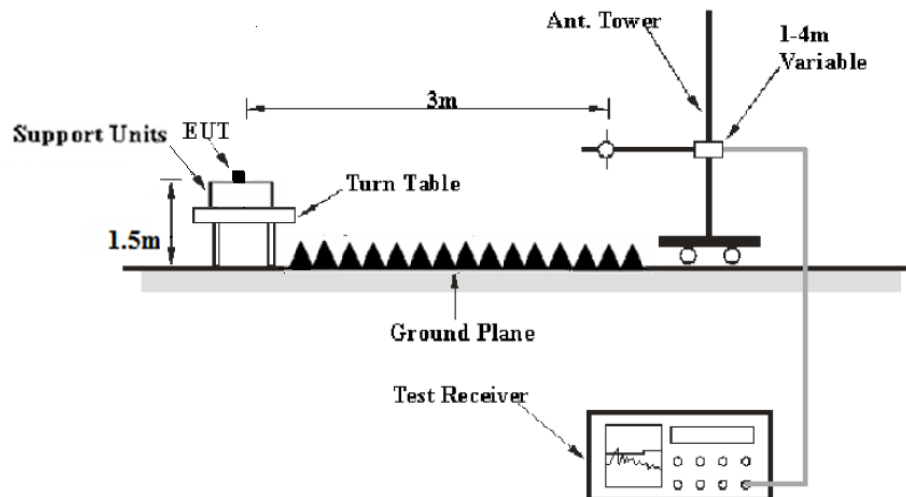
FCC §15.247 (d); §15.209; §15.205;

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	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	3 MHz	/	AVG

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.

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:

Corrected Amplitude (dB μ V/m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - 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:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ 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**

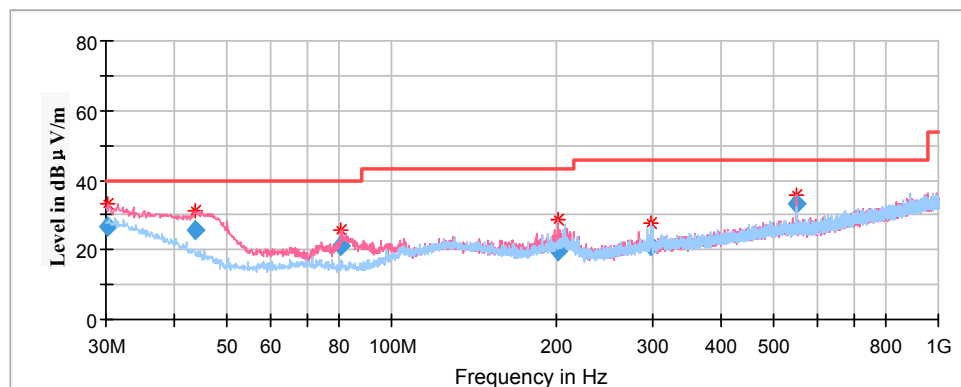
Temperature:	24.2~25.3 °C
Relative Humidity:	49-50 %
ATM Pressure:	100.7-100.9 kPa

The testing was performed by CK Huang from 2021-02-04 to 2021-02-22.

EUT operation mode: Transmitting

For Adapter1:**Spurious Emission Test:****30MHz-1GHz**

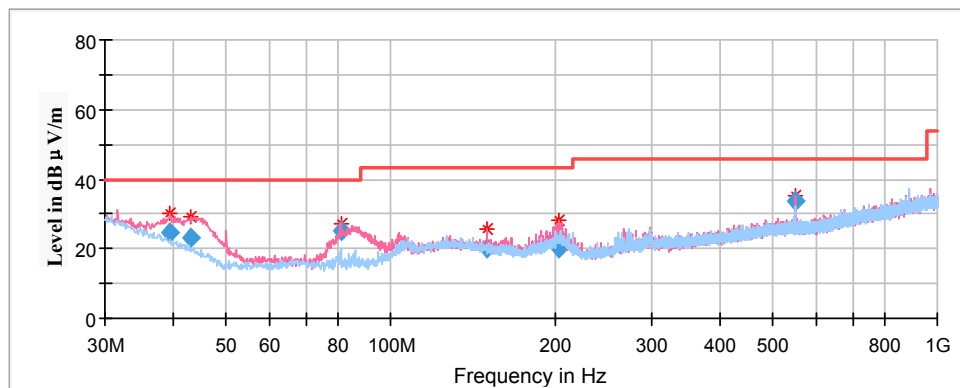
Pre-scan with 802.11b, 802.11g and 802.11n-HT20 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11g mode in Y-axis of orientation** was recorded.



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi Peak (dBμV/m)	Height (cm)	Polar (H/V)				
30.247214	26.58	100.0	V	93.0	-4.1	40.00	13.42
43.705150	25.56	100.0	V	154.0	-13.1	40.00	14.44
80.921800	20.90	200.0	V	108.0	-17.1	40.00	19.10
201.568850	19.38	100.0	V	0.0	-10.8	43.50	24.12
297.116350	21.15	100.0	H	287.0	-10.5	46.00	24.85
550.047450	33.17	100.0	V	220.0	-5.1	46.00	12.83

For Adapter2:**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 **middle channel of 802.11g mode in Y-axis of orientation** was recorded.



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi Peak (dBμV/m)	Height (cm)	Polar (H/V)				
39.454400	24.48	100.0	V	0.0	-10.0	40.00	15.52
43.214350	23.38	100.0	V	150.0	-13.0	40.00	16.62
81.021950	25.34	100.0	V	53.0	-17.1	40.00	14.66
150.035100	20.14	100.0	V	96.0	-11.6	43.50	23.36
203.348000	20.14	100.0	V	332.0	-11.1	43.50	23.36
550.022350	33.50	100.0	V	174.0	-5.1	46.00	12.50

For Adapter1:(Worst case)**1GHz-18GHz:****802.11b Mode:**

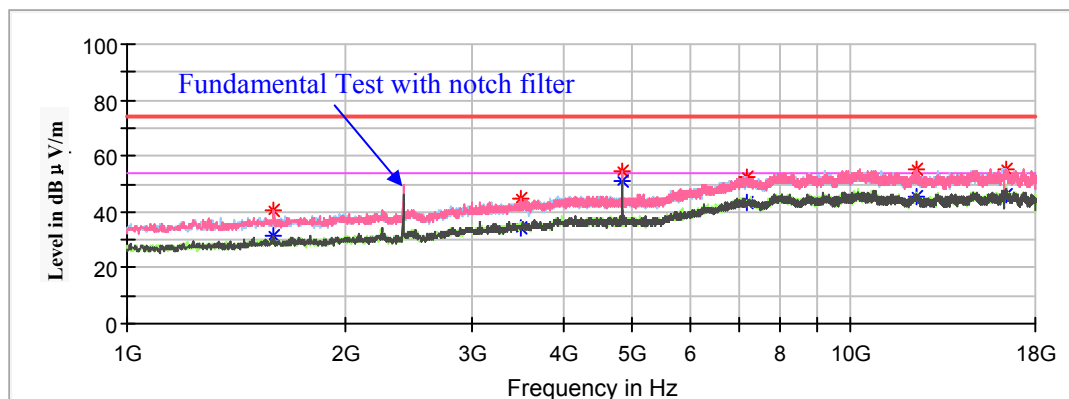
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

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

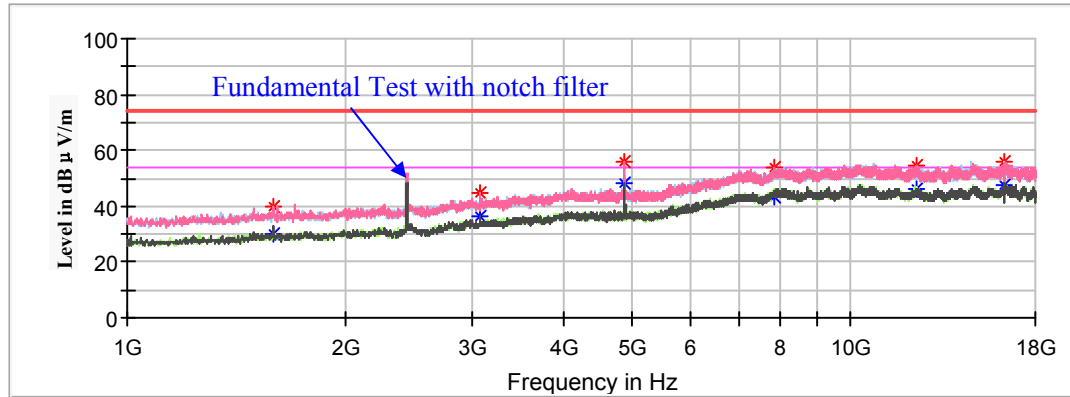
Full Spectrum



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)				
1593.300000	---	31.29	200.0	V	288.0	-9.1	54.00	22.71
1593.300000	40.30	---	200.0	V	288.0	-9.1	74.00	33.70
3497.300000	---	34.49	200.0	H	65.0	-1.8	54.00	19.51
3497.300000	44.57	---	200.0	H	65.0	-1.8	74.00	29.43
4824.000000	54.60	---	200.0	V	257.0	1.0	74.00	19.40
4824.000000	---	51.03	200.0	V	257.0	1.0	54.00	2.97
7171.000000	---	43.42	150.0	V	60.0	9.0	54.00	10.58
7171.000000	52.77	---	150.0	V	60.0	9.0	74.00	21.23
12322.000000	---	45.41	200.0	H	6.0	11.7	54.00	8.59
12322.000000	54.94	---	200.0	H	6.0	11.7	74.00	19.06
16395.200000	---	46.38	150.0	H	62.0	12.0	54.00	7.62
16395.200000	55.43	---	150.0	H	62.0	12.0	74.00	18.57

Middle Channel: 2437MHz

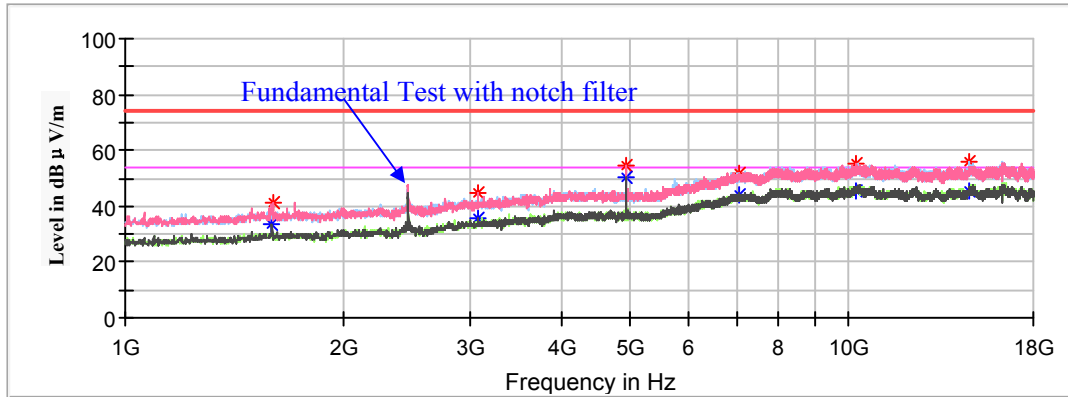
Full Spectrum



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)				
1595.000000	40.10	---	150.0	V	310.0	-9.1	74.00	33.90
1595.000000	---	30.36	150.0	V	310.0	-9.1	54.00	23.64
3070.600000	---	36.45	200.0	V	218.0	-3.0	54.00	17.55
3070.600000	44.61	---	200.0	V	218.0	-3.0	74.00	29.39
4874.000000	---	47.97	150.0	V	257.0	1.1	54.00	6.03
4874.000000	55.86	---	150.0	V	257.0	1.1	74.00	18.14
7830.600000	---	43.70	150.0	H	341.0	10.3	54.00	10.30
7830.600000	53.65	---	150.0	H	341.0	10.3	74.00	20.35
12357.700000	---	46.18	200.0	V	332.0	11.7	54.00	7.82
12357.700000	54.87	---	200.0	V	332.0	11.7	74.00	19.13
16328.900000	---	47.49	200.0	H	60.0	12.1	54.00	6.51
16328.900000	56.19	---	200.0	H	60.0	12.1	74.00	17.81

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)				
1596.700000	---	33.83	200.0	V	301.0	-9.1	54.00	20.17
1596.700000	41.24	---	200.0	V	301.0	-9.1	74.00	32.76
3070.600000	44.81	---	150.0	V	323.0	-3.0	74.00	29.19
3070.600000	---	35.77	150.0	V	323.0	-3.0	54.00	18.23
4924.000000	---	50.00	150.0	V	269.0	1.1	54.00	4.00
4924.000000	54.63	---	150.0	V	269.0	1.1	74.00	19.37
7058.800000	---	43.71	200.0	V	350.0	8.9	54.00	10.29
7058.800000	52.06	---	200.0	V	350.0	8.9	74.00	21.94
10266.700000	---	45.44	150.0	V	335.0	12.5	54.00	8.56
10266.700000	55.06	---	150.0	V	335.0	12.5	74.00	18.94
14674.800000	---	45.65	200.0	H	165.0	11.7	54.00	8.35
14674.800000	56.12	---	200.0	H	165.0	11.7	74.00	17.88

802.11g Mode:

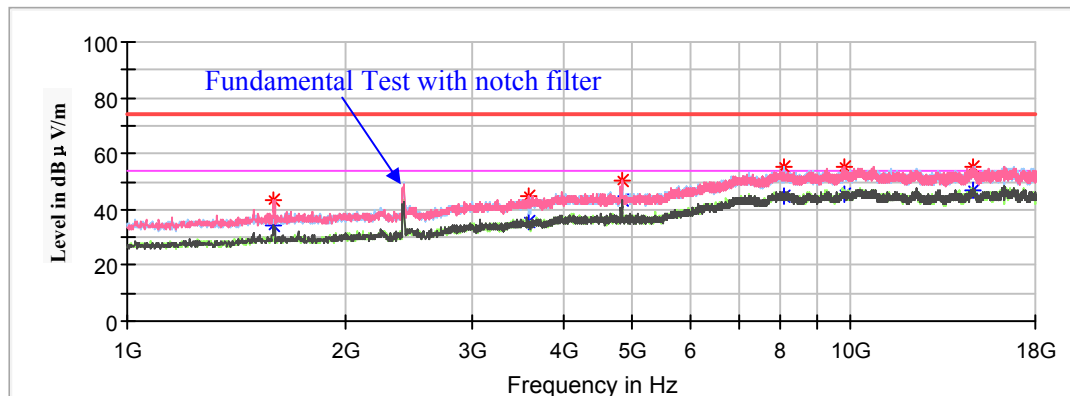
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

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

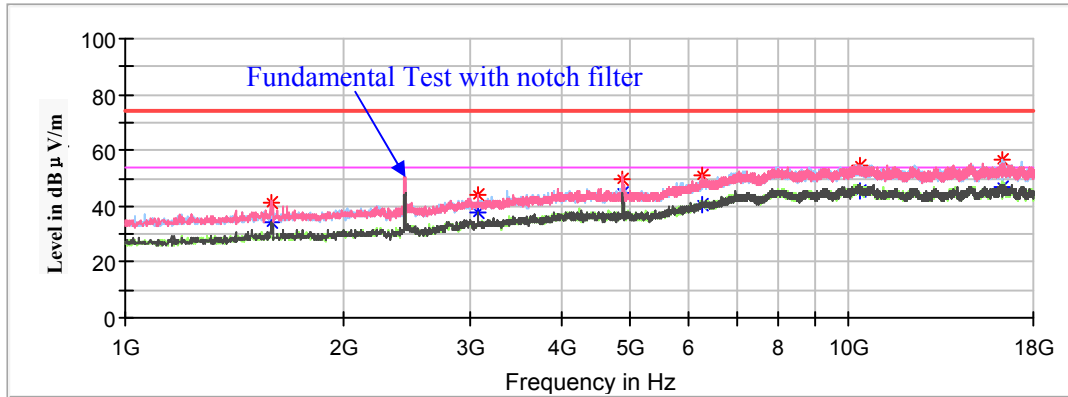
Full Spectrum



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)				
1593.300000	---	34.10	200.0	V	224.0	-9.1	54.00	19.90
1593.300000	43.16	---	200.0	V	224.0	-9.1	74.00	30.84
3589.100000	44.87	---	200.0	V	186.0	-1.4	74.00	29.13
3589.100000	---	35.34	200.0	V	186.0	-1.4	54.00	18.66
4824.000000	50.54	---	200.0	V	326.0	1.0	74.00	23.46
4824.000000	---	43.56	200.0	V	326.0	1.0	54.00	10.44
8089.000000	---	44.50	150.0	H	359.0	10.8	54.00	9.50
8089.000000	55.35	---	150.0	H	359.0	10.8	74.00	18.65
9809.400000	---	45.69	150.0	V	257.0	11.9	54.00	8.31
9809.400000	55.12	---	150.0	V	257.0	11.9	74.00	18.88
14785.300000	---	47.20	150.0	H	52.0	11.9	54.00	6.80
14785.300000	55.19	---	150.0	H	52.0	11.9	74.00	18.81

Middle Channel: 2437MHz

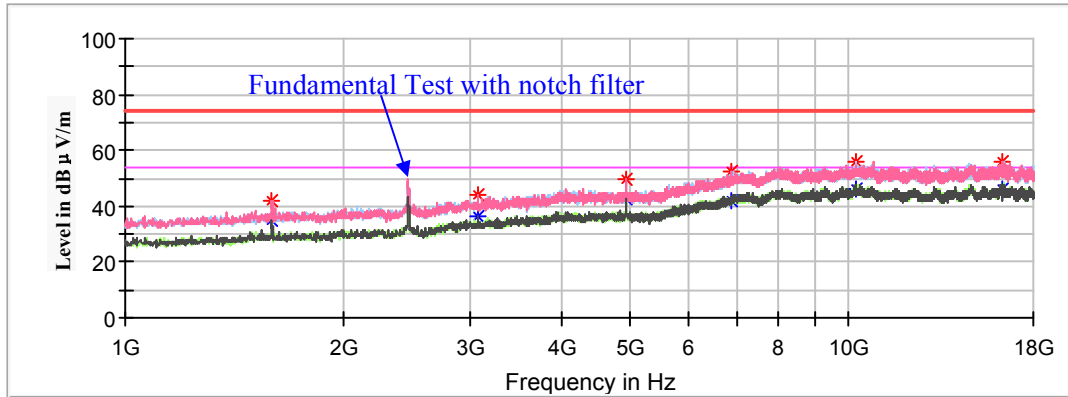
Full Spectrum



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)				
1591.600000	41.03	---	200.0	V	243.0	-9.1	74.00	32.97
1591.600000	---	34.56	200.0	V	243.0	-9.1	54.00	19.44
3070.600000	---	37.95	150.0	V	289.0	-3.0	54.00	16.05
3070.600000	43.88	---	150.0	V	289.0	-3.0	74.00	30.12
4874.000000	---	44.62	200.0	V	345.0	1.1	54.00	9.38
4874.000000	49.96	---	200.0	V	345.0	1.1	74.00	24.04
6285.300000	---	40.46	150.0	V	200.0	6.0	54.00	13.54
6285.300000	50.83	---	150.0	V	200.0	6.0	74.00	23.17
10348.300000	---	45.15	200.0	H	109.0	12.7	54.00	8.85
10348.300000	54.79	---	200.0	H	109.0	12.7	74.00	19.21
16318.700000	---	47.01	200.0	V	203.0	12.1	54.00	6.99
16318.700000	56.75	---	200.0	V	203.0	12.1	74.00	17.25

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)				
1593.300000	41.69	---	150.0	V	257.0	-9.1	74.00	32.31
1593.300000	---	34.81	150.0	V	257.0	-9.1	54.00	19.19
3070.600000	---	36.20	200.0	V	321.0	-3.0	54.00	17.80
3070.600000	43.86	---	200.0	V	321.0	-3.0	74.00	30.14
4924.000000	49.67	---	150.0	V	333.0	1.1	74.00	24.33
4924.000000	---	42.74	150.0	V	333.0	1.1	54.00	11.26
6899.000000	---	42.22	150.0	V	194.0	8.5	54.00	11.78
6899.000000	52.38	---	150.0	V	194.0	8.5	74.00	21.62
10208.900000	55.94	---	200.0	H	77.0	12.4	74.00	18.06
10208.900000	---	46.21	200.0	H	77.0	12.4	54.00	7.79
16345.900000	---	46.43	150.0	V	257.0	12.1	54.00	7.57
16345.900000	56.14	---	150.0	V	257.0	12.1	74.00	17.86

802.11n-HT20 Mode:

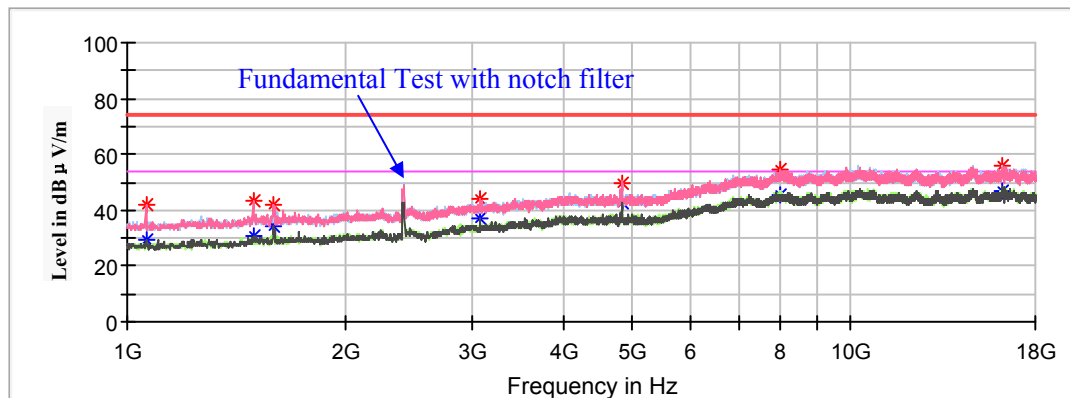
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

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

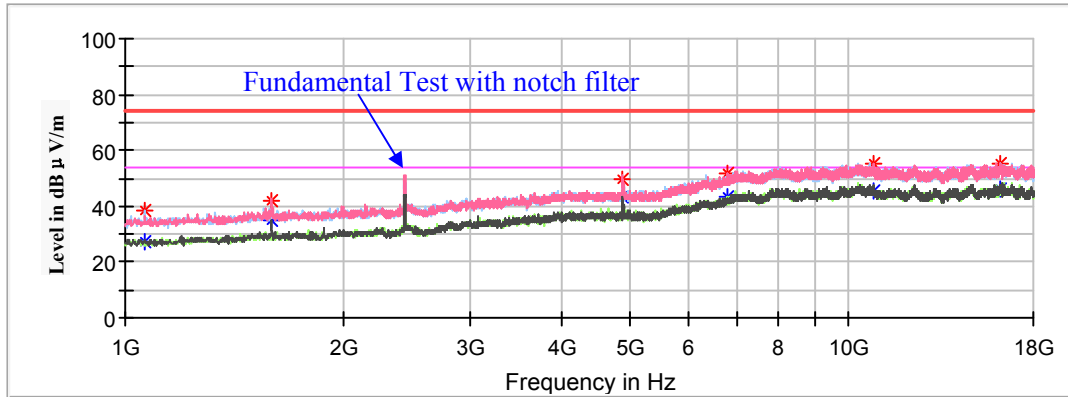
Full Spectrum



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)				
1061.200000	---	29.20	200.0	V	15.0	-12.1	54.00	24.80
1061.200000	42.10	---	200.0	V	15.0	-12.1	74.00	31.90
1493.000000	43.15	---	200.0	V	259.0	-9.4	74.00	30.85
1493.000000	---	30.80	200.0	V	259.0	-9.4	54.00	23.20
1595.000000	---	34.10	150.0	V	262.0	-9.1	54.00	19.90
1595.000000	41.79	---	150.0	V	262.0	-9.1	74.00	32.21
3070.600000	44.26	---	200.0	V	329.0	-3.0	74.00	29.74
3070.600000	---	37.09	200.0	V	329.0	-3.0	54.00	16.91
4824.000000	---	42.40	200.0	V	327.0	1.0	54.00	11.60
4824.000000	49.67	---	200.0	V	327.0	1.0	74.00	24.33
7993.800000	---	45.12	200.0	H	340.0	10.8	54.00	8.88
7993.800000	54.74	---	200.0	H	340.0	10.8	74.00	19.26

Middle Channel: 2437MHz

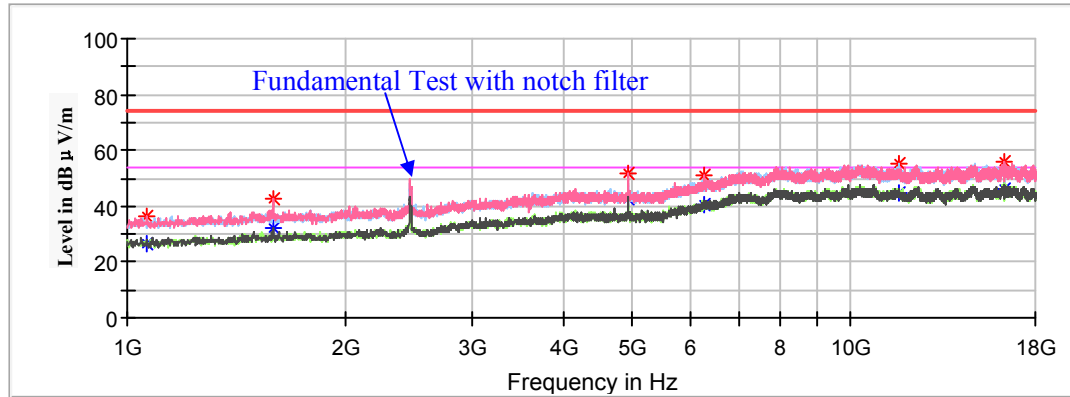
Full Spectrum



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)				
1062.900000	38.49	---	150.0	H	46.0	-12.1	74.00	35.51
1062.900000	---	27.59	150.0	H	46.0	-12.1	54.00	26.41
1591.600000	41.88	---	200.0	V	256.0	-9.1	74.00	32.12
1591.600000	---	35.15	200.0	V	256.0	-9.1	54.00	18.85
4874.000000	---	43.63	200.0	V	335.0	1.1	54.00	10.37
4874.000000	49.47	---	200.0	V	335.0	1.1	74.00	24.53
6795.300000	---	43.11	200.0	H	220.0	8.0	54.00	10.89
6795.300000	52.03	---	200.0	H	220.0	8.0	74.00	21.97
10841.300000	---	45.38	150.0	V	322.0	12.0	54.00	8.62
10841.300000	55.04	---	150.0	V	322.0	12.0	74.00	18.96
16228.600000	---	46.24	200.0	H	359.0	12.2	54.00	7.76
16228.600000	55.49	---	200.0	H	359.0	12.2	74.00	18.51

High Channel: 2462MHz

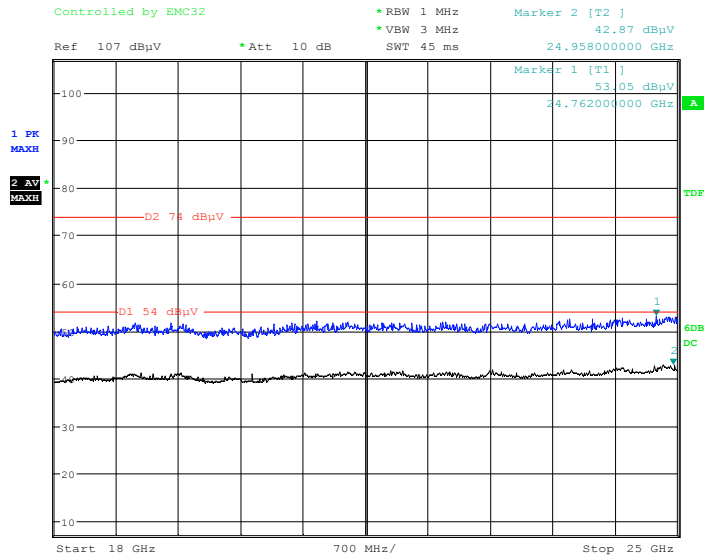
Full Spectrum



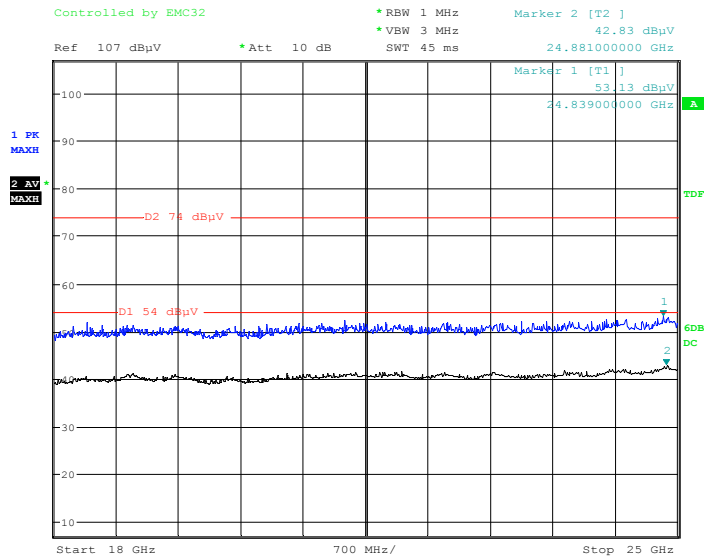
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1064.600000	---	26.63	150.0	H	38.0	-12.1	54.00	27.37
1064.600000	36.30	---	150.0	H	38.0	-12.1	74.00	37.70
1591.600000	42.86	---	150.0	V	283.0	-9.1	74.00	31.14
1591.600000	---	32.28	150.0	V	283.0	-9.1	54.00	21.72
4924.000000	---	42.79	150.0	V	334.0	1.1	54.00	11.21
4924.000000	51.79	---	150.0	V	334.0	1.1	74.00	22.21
6280.200000	---	40.27	150.0	V	168.0	6.0	54.00	13.73
6280.200000	51.24	---	150.0	V	168.0	6.0	74.00	22.76
11631.800000	---	45.01	150.0	H	335.0	11.7	54.00	8.99
11631.800000	55.38	---	150.0	H	335.0	11.7	74.00	18.62
16255.800000	---	45.90	200.0	H	178.0	12.2	54.00	8.10
16255.800000	55.63	---	200.0	H	178.0	12.2	74.00	18.37

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 **middle channel of 802.11g mode in Y-axis of orientation** was recorded

Vertical

Date: 22.FEB.2021 10:37:43

Horizontal

Date: 22.FEB.2021 10:35:11

Restricted Bands Emissions Test:

Note:

1. 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 Y-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								
2390.00	52.71	---	150.0	H	334.0	3.8	74.00	21.29
2390.00	---	46.98	150.0	H	334.0	3.8	54.00	7.02
High Channel: 2462MHz								
2483.50	53.68	---	200.0	V	211.0	4.1	74.00	20.32
2483.50	---	47.18	200.0	V	211.0	4.1	54.00	6.82

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

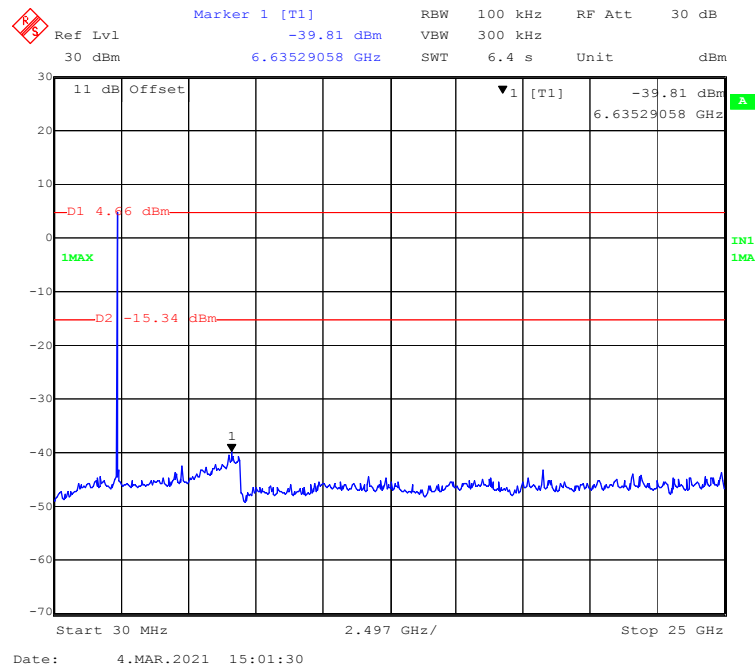
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2390.00	57.94	---	200.0	H	288.0	3.8	74.00	16.06
2390.00	---	48.18	200.0	H	288.0	3.8	54.00	5.82
High Channel: 2462MHz								
2483.50	57.33	---	200.0	V	60.0	4.1	74.00	16.67
2483.50	---	50.49	200.0	V	60.0	4.1	54.00	3.51

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

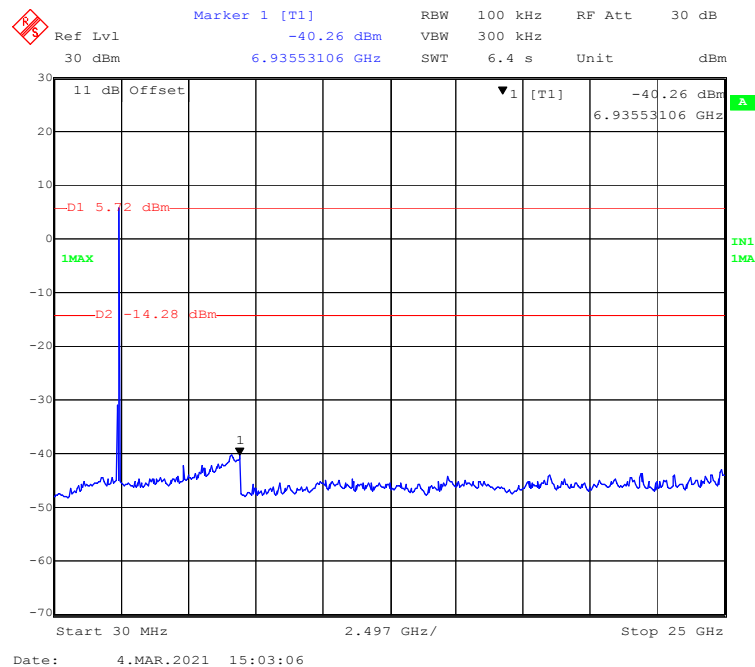
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2390.00	56.00	---	200.0	H	302.0	3.8	74.00	18.00
2390.00	---	48.40	200.0	H	302.0	3.8	54.00	5.60
High Channel: 2462MHz								
2483.50	57.05	---	200.0	V	71.0	4.1	74.00	16.95
2483.50	---	50.04	200.0	V	71.0	4.1	54.00	3.96

Conducted Spurious Emissions at Antenna Port

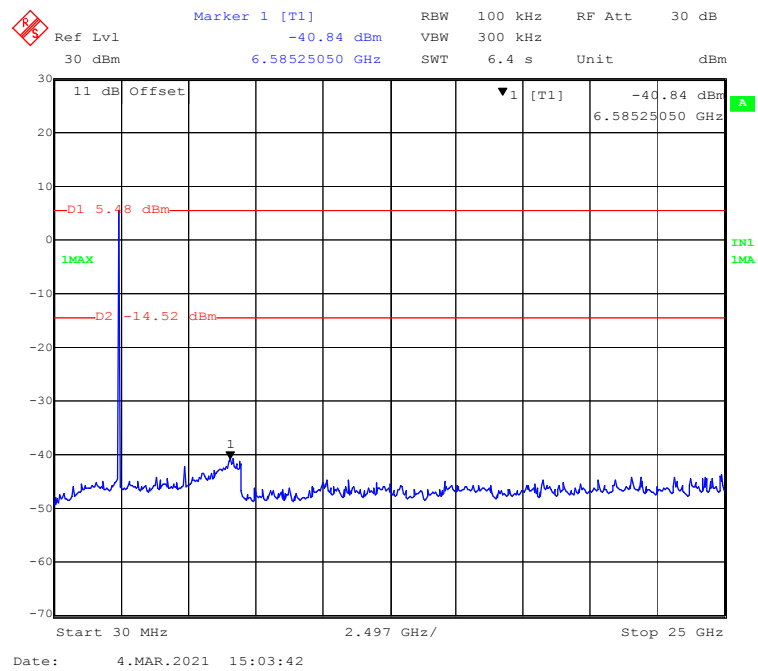
802.11b Mode Low Channel



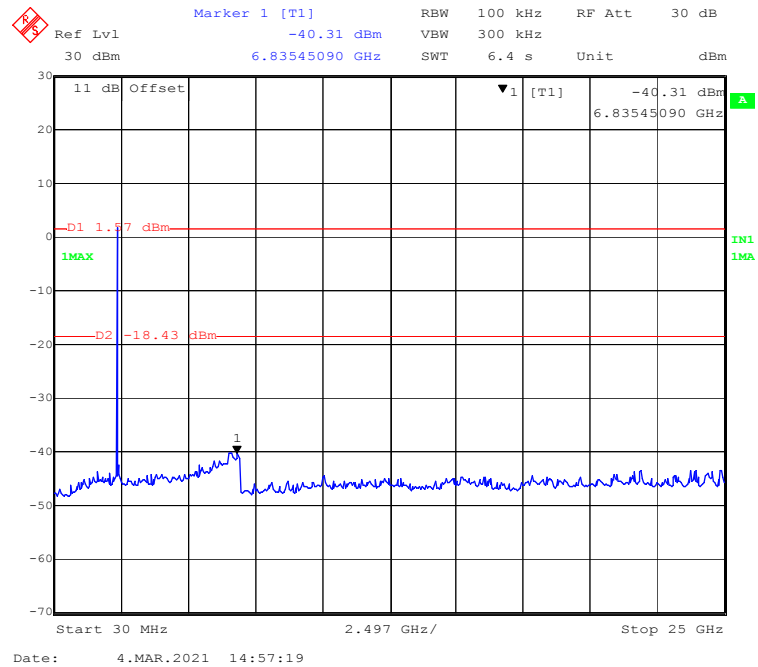
802.11b Mode Middle Channel

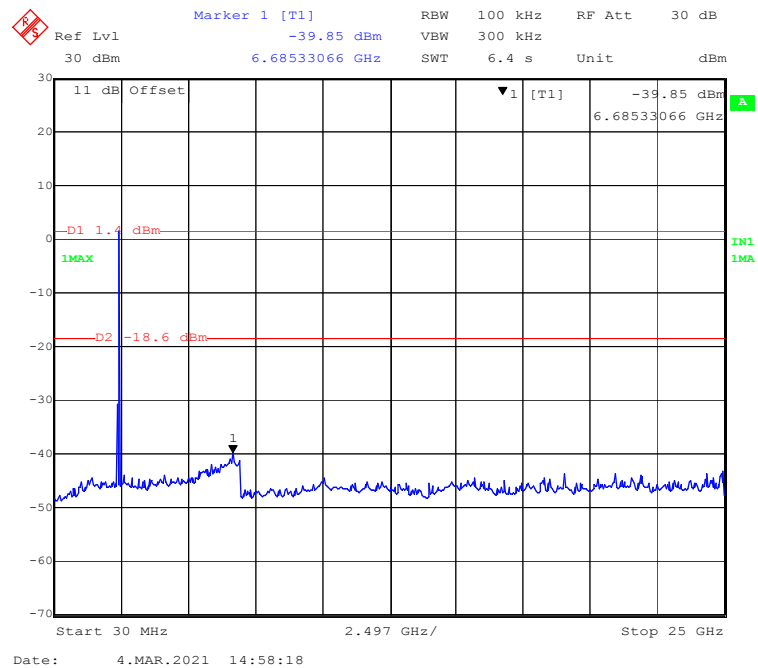
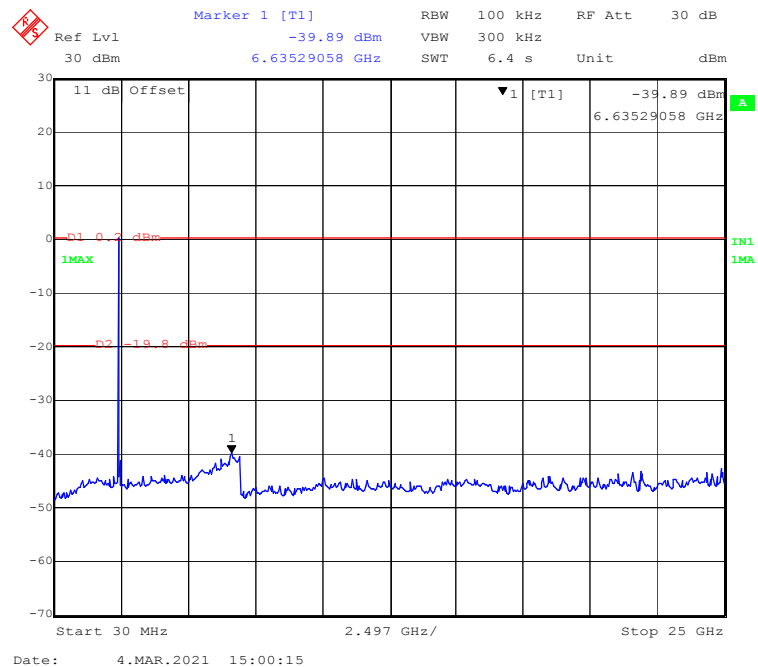


802.11b Mode High Channel

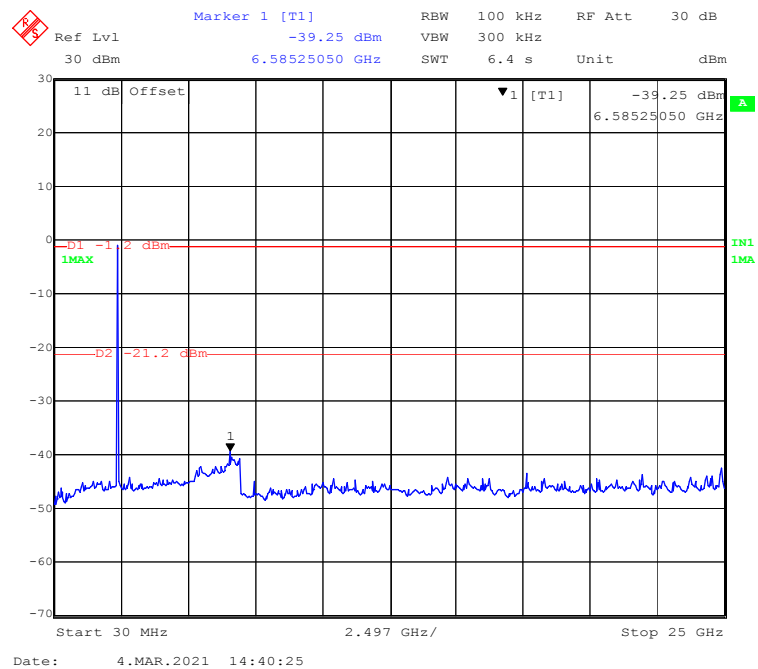


802.11g Mode Low Channel

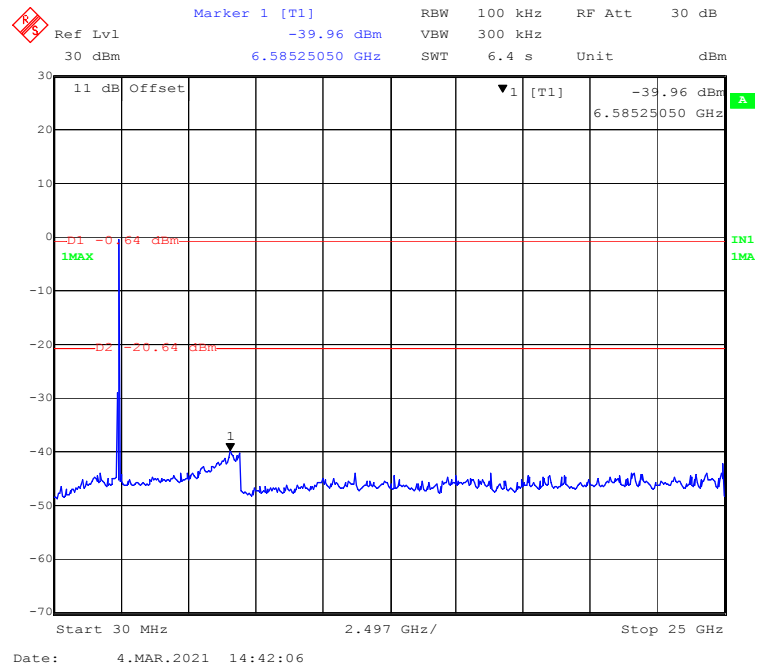


802.11g Mode Middle Channel**802.11g Mode High Channel**

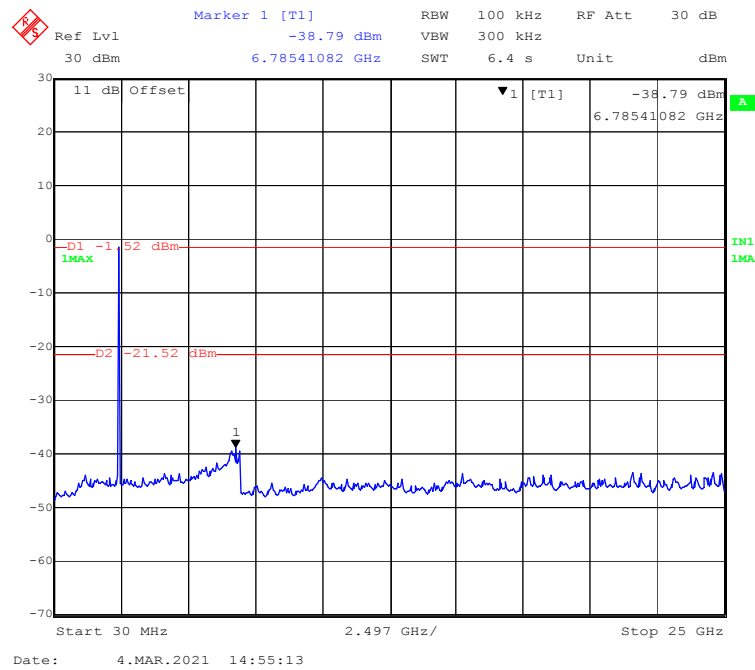
802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



802.11n-HT20 Mode High Channel



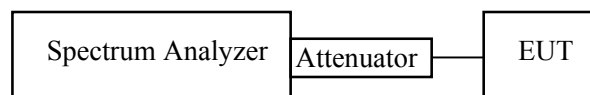
FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH**Applicable Standard**

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) $\geq 3 * \text{RBW}$.
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:	24.7 °C
Relative Humidity:	49 %
ATM Pressure:	101.2 kPa

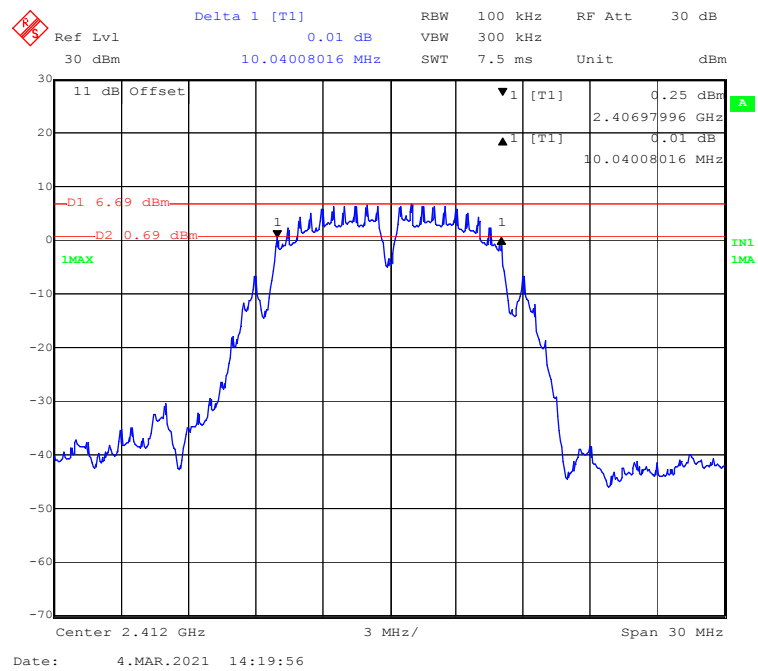
The testing was performed by CK Huang on 2021-03-04.

EUT operation mode: Transmitting

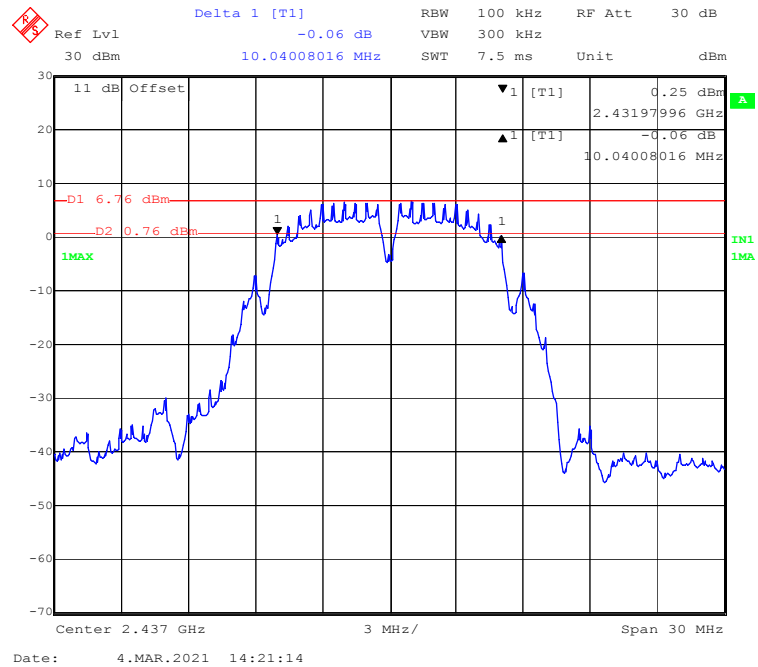
Test Result: Compliant

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b Mode			
Low	2412	10.040	≥ 0.5
Middle	2437	10.040	≥ 0.5
High	2462	10.040	≥ 0.5
802.11g Mode			
Low	2412	16.473	≥ 0.5
Middle	2437	16.473	≥ 0.5
High	2462	16.473	≥ 0.5
802.11n-HT20 Mode			
Low	2412	17.675	≥ 0.5
Middle	2437	17.675	≥ 0.5
High	2462	17.675	≥ 0.5

802.11b Mode Low Channel



802.11b Mode Middle Channel



Delta 1 [T1]
 Ref Lvl -0.23 dB
 30 dBm 10.0408016 MHz
 RBW 100 kHz
 VBW 300 kHz
 SWT 7.5 ms
 Unit dBm

11 dB Offset
 0.30 dBm
 2.45697996 GHz
 -0.23 dB
 10.0408016 MHz

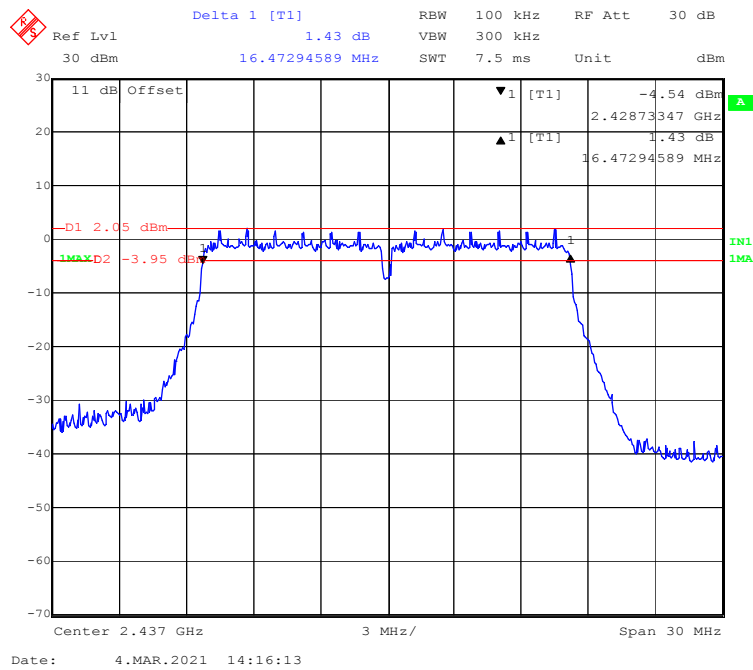
D1 6.63 dBm
 D2 0.63 dBm
 1MAX

Center 2.462 GHz
 3 MHz/
 Span 30 MHz

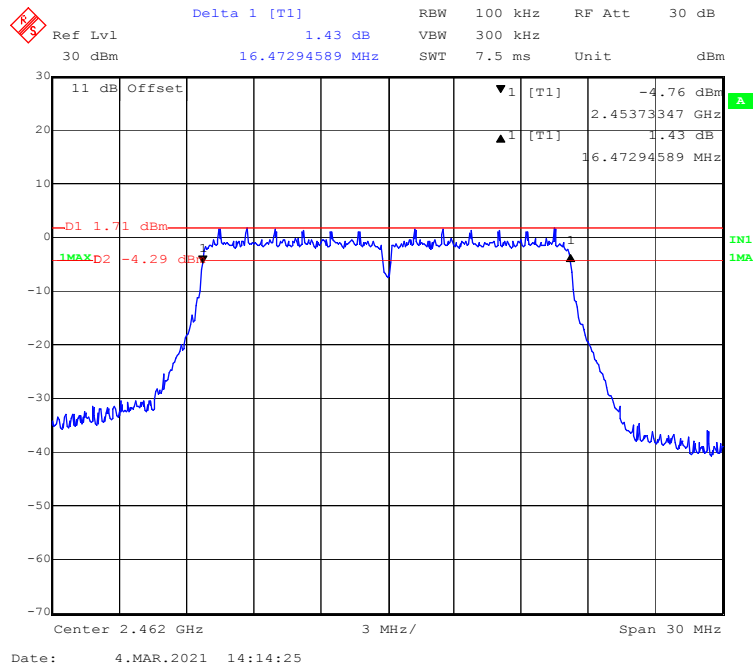
Date: 4.MAR.2021 14:22:36

A spectrum analyzer screenshot showing a signal at 16.47294589 MHz. The signal is a blue trace with a peak at -4.73 dBm. The background is a grid. The top status bar shows parameters: Ref Lvl 30 dBm, Delta 1 [T1] 1.03 dB, RBW 100 kHz, RF Att 30 dB, VBW 300 kHz, SWT 7.5 ms, Unit dBm. The bottom status bar shows Center 2.412 GHz, 3 MHz/ Span 30 MHz. The date and time are 4.MAR.2021 14:17:46.

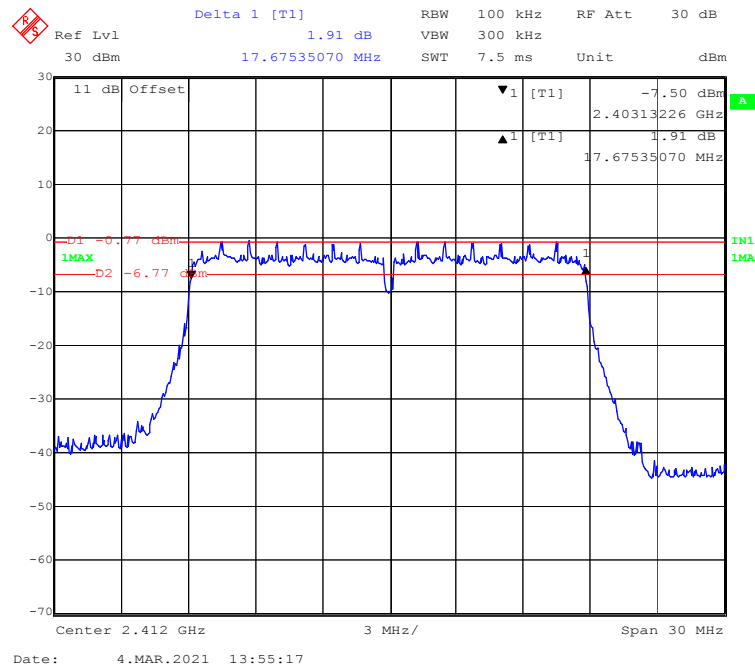
802.11g Mode Middle Channel



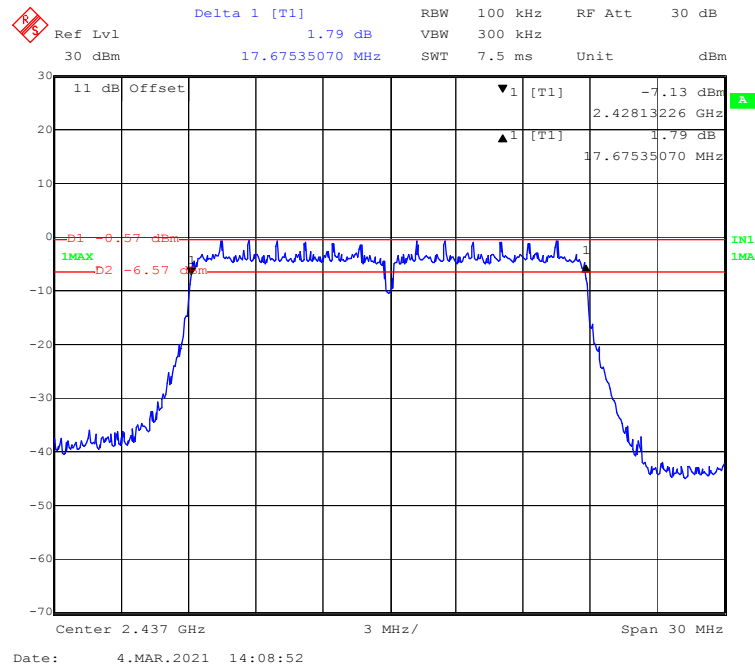
802.11g Mode High Channel



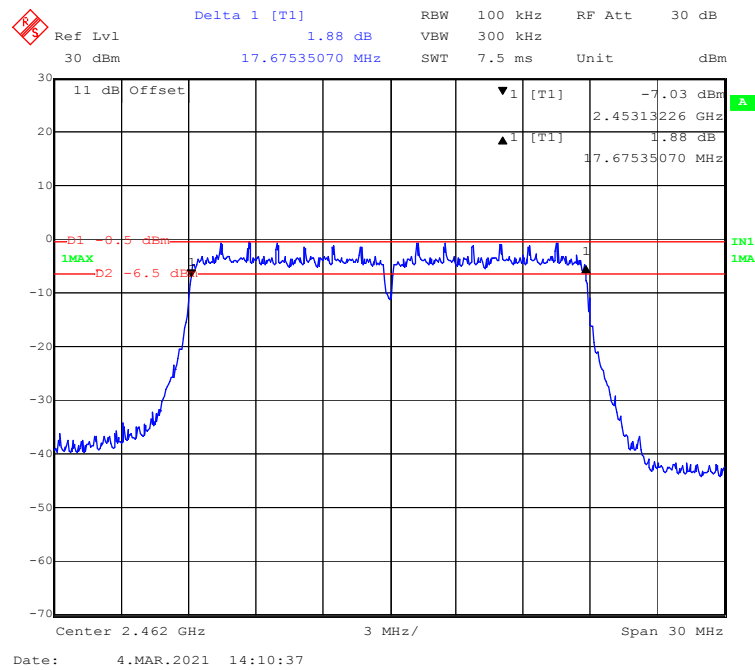
802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



802.11n-HT20 Mode High Channel



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

Applicable Standard

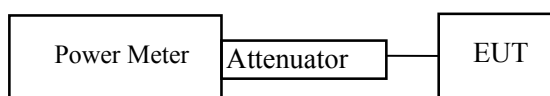
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to 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.

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:	24.7 °C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by CK Huang on 2021-03-04.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
802.11b Mode				
Low	2412	18.43	30	Pass
Middle	2437	18.42	30	Pass
High	2462	18.34	30	Pass
802.11g Mode				
Low	2412	21.49	30	Pass
Middle	2437	21.56	30	Pass
High	2462	21.41	30	Pass
802.11n-HT20 Mode				
Low	2412	19.21	30	Pass
Middle	2437	19.47	30	Pass
High	2462	19.21	30	Pass

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 Compliant 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**

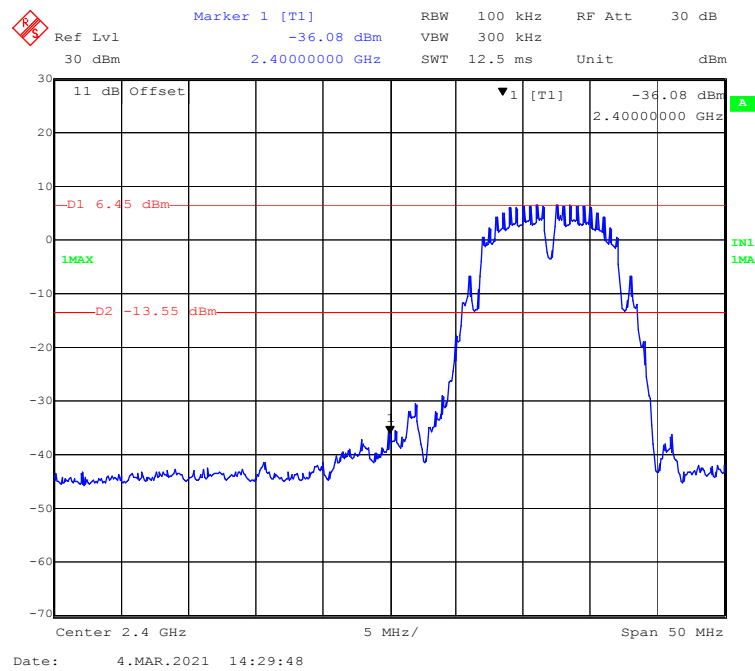
Temperature:	24.7 °C
Relative Humidity:	51 %
ATM Pressure:	101.3 kPa

The testing was performed by CK Huang on 2021-03-04.

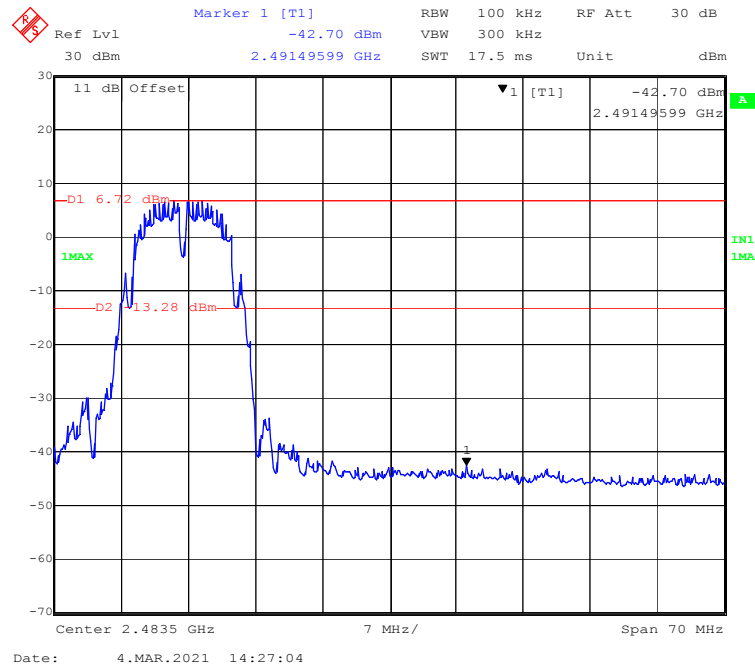
EUT operation mode: Transmitting

Test Result: Compliant

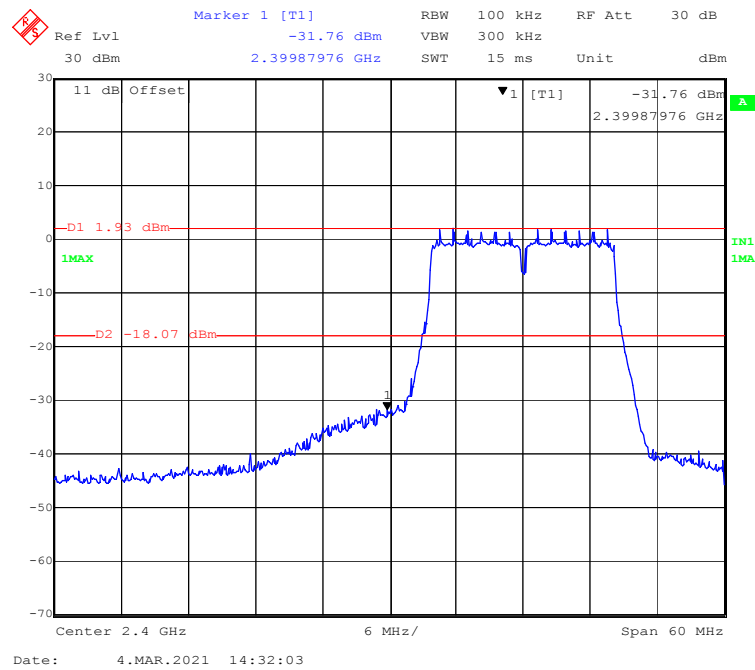
802.11b Mode Left Side



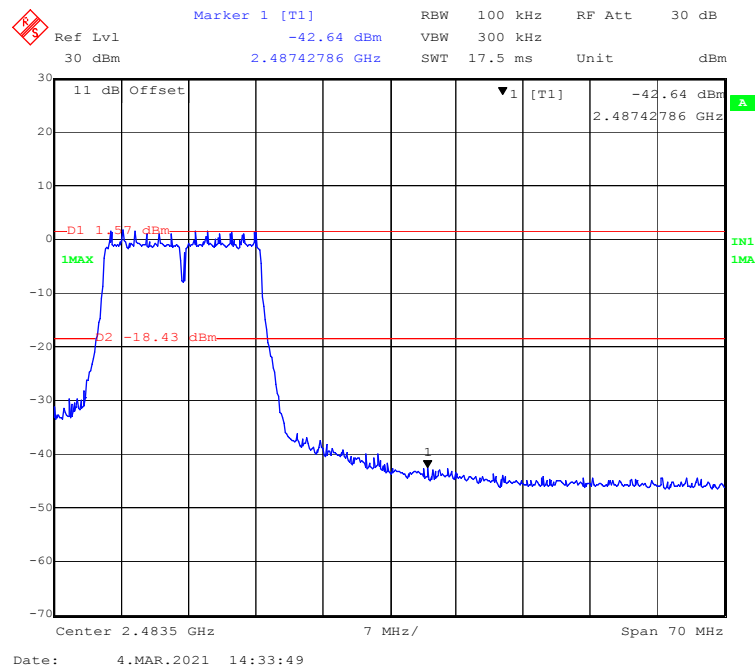
802.11b Mode Right Side



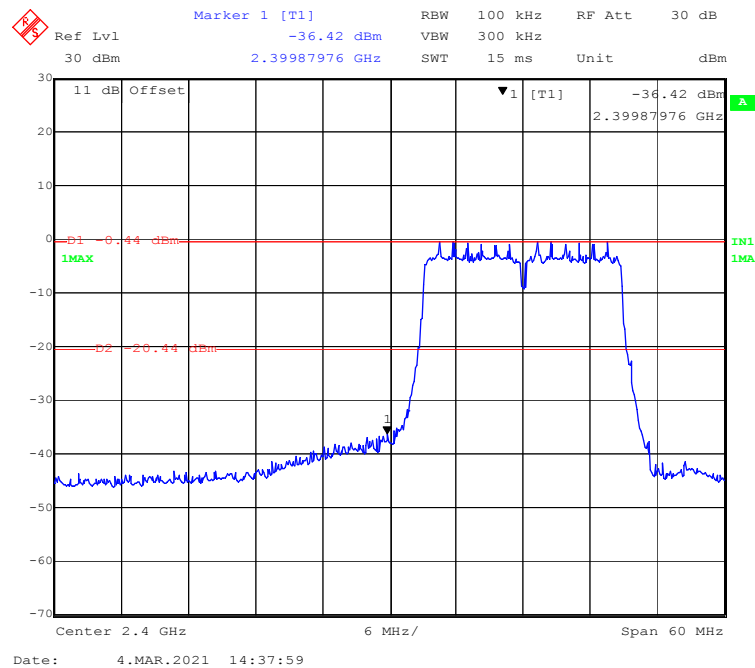
802.11g Mode Left Side



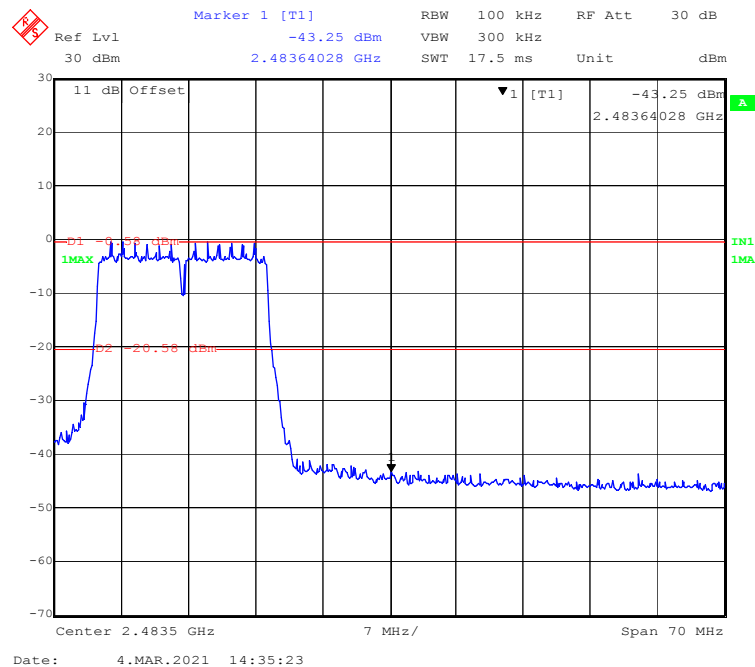
802.11g Mode Right Side



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 Compliant, and it is optional if the maximum conducted (average) output power was used to determine Compliant:

1. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
2. Set the VBW $\geq 3 * \text{RBW}$.
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:	24.7 °C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

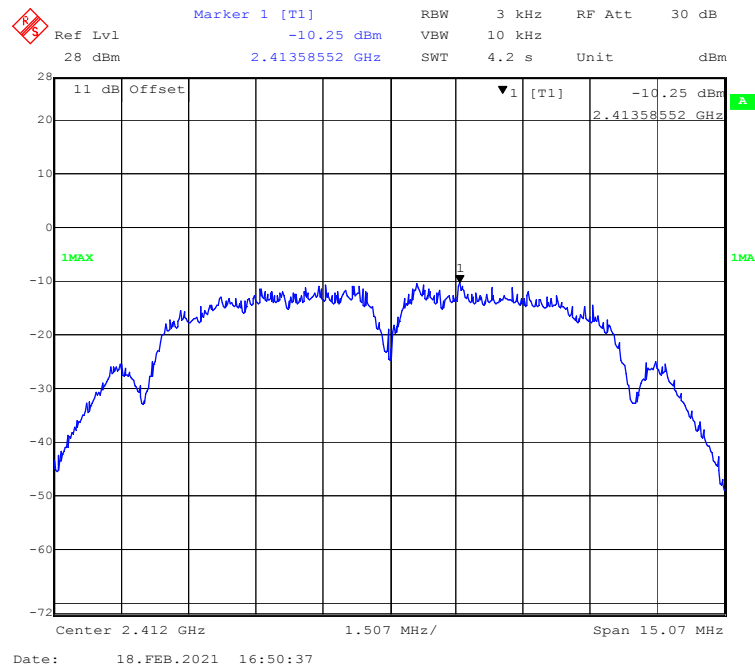
The testing was performed by CK Huang on 2021-02-18.

EUT operation mode: Transmitting

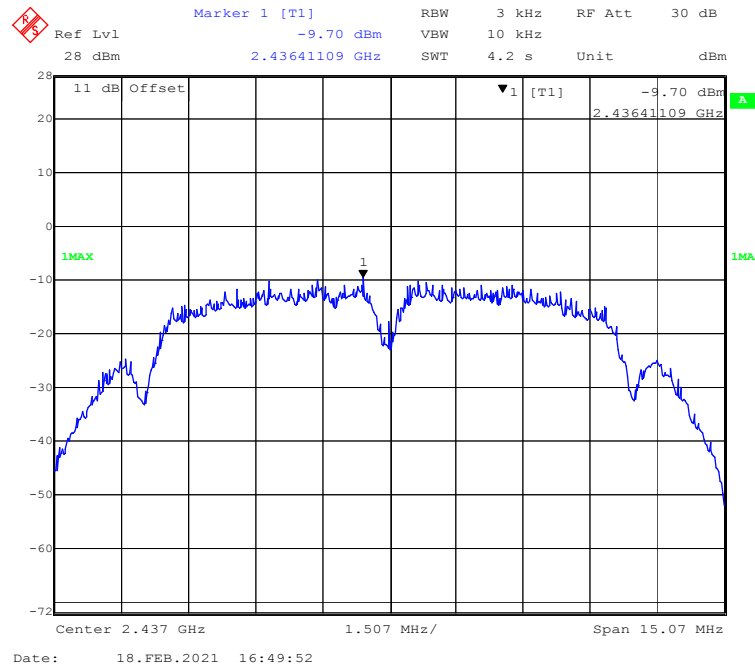
Test Result: Compliant

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b Mode			
Low	2412	-10.25	≤ 8
Middle	2437	-9.70	≤ 8
High	2462	-9.15	≤ 8
802.11g Mode			
Low	2412	-13.48	≤ 8
Middle	2437	-12.64	≤ 8
High	2462	-11.60	≤ 8
802.11n-HT20 mode			
Low	2412	-16.78	≤ 8
Middle	2437	-15.68	≤ 8
High	2462	-14.87	≤ 8

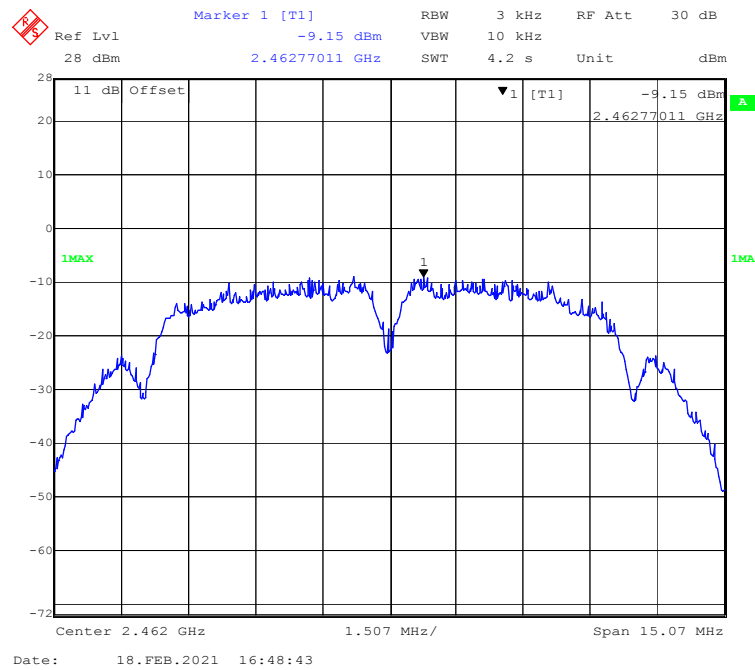
802.11b Mode Low Channel



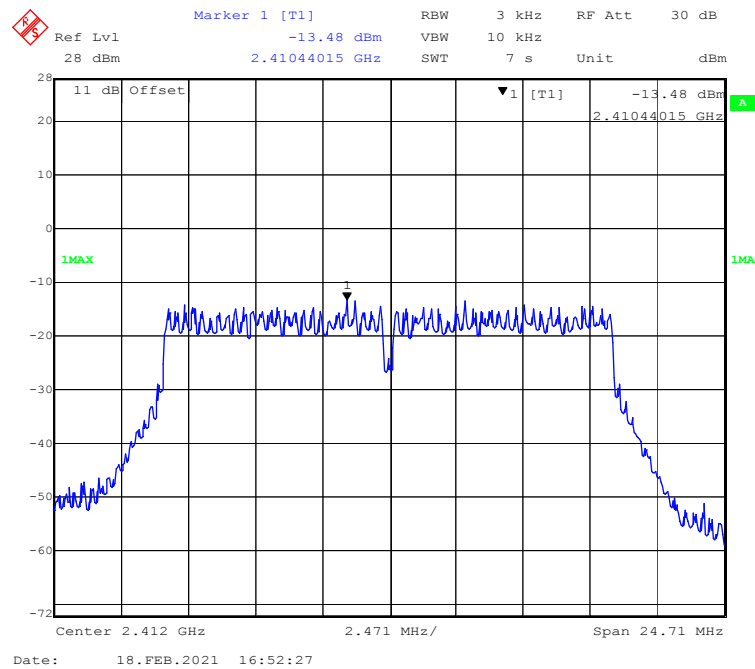
802.11b Mode Middle Channel



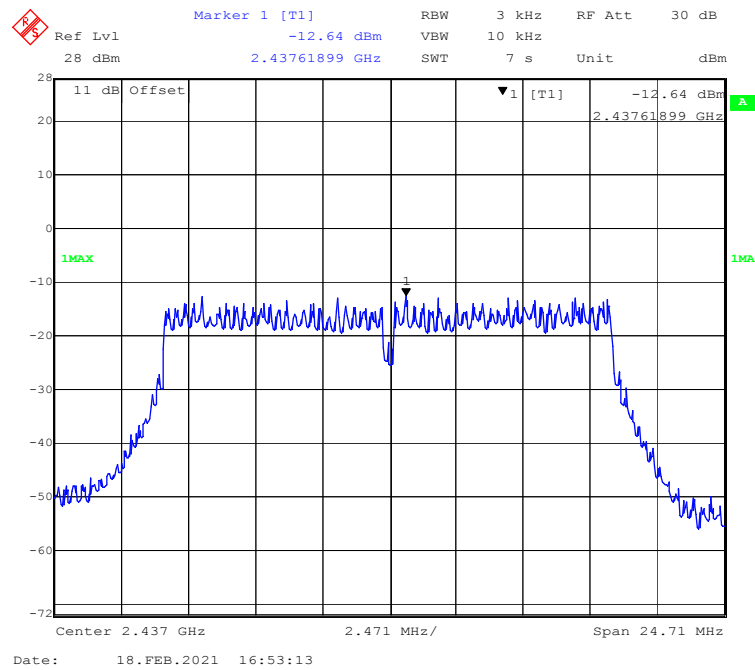
802.11b Mode High Channel



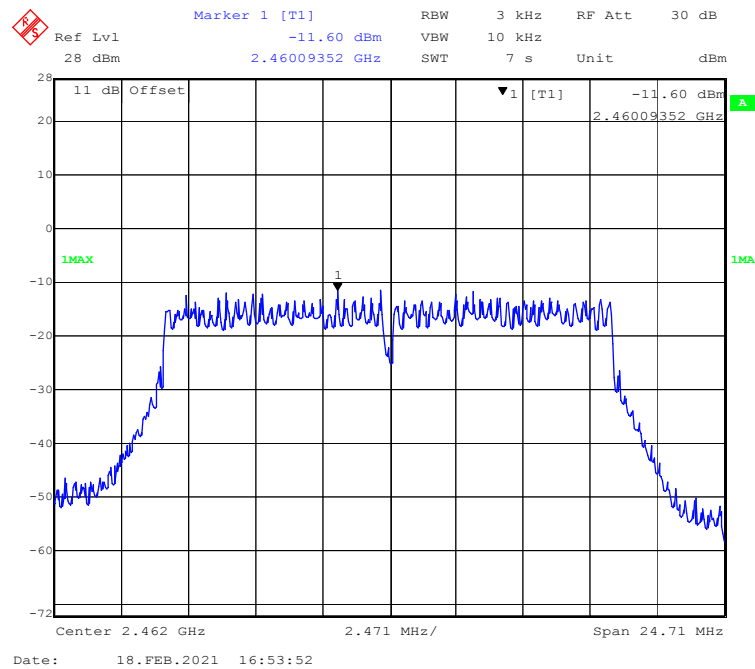
802.11g Mode Low Channel



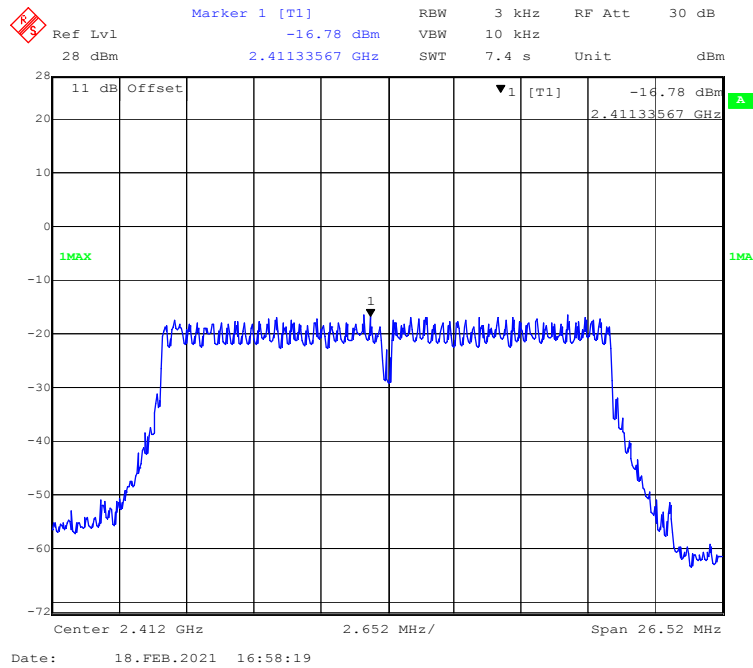
802.11g Mode Middle Channel



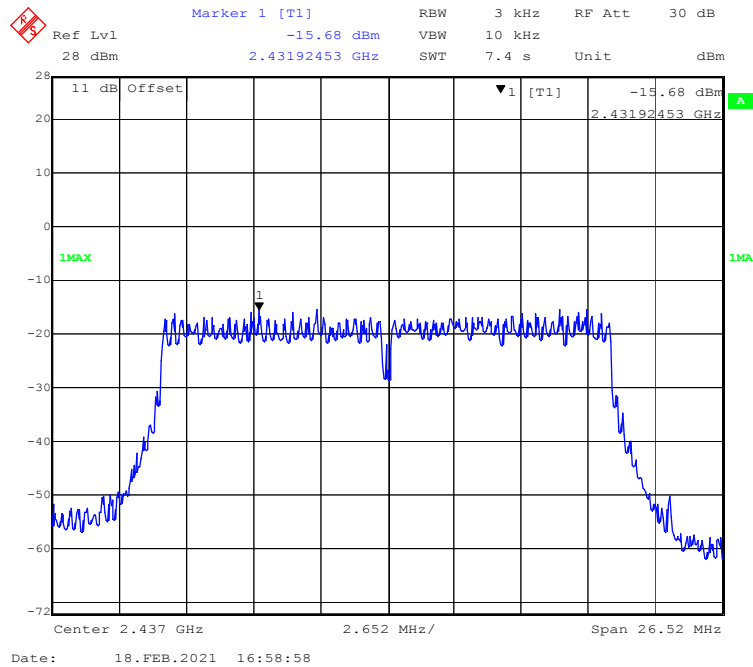
802.11g Mode High Channel



802.11n-HT20 Mode Low Channel



802.11n-HT20 Mode Middle Channel



Marker 1 [T1]
 Ref Lvl -14.87 dBm
 28 dBm 2.47074257 GHz
 RBW 3 kHz
 VBW 10 kHz
 SWT 7.4 s
 Unit dBm

11 dB Offset
 1MAX
 1
 -14.87 dBm
 2.47074257 GHz

Center 2.462 GHz
 2.652 MHz/
 Span 26.52 MHz

Date: 18.FEB.2021 16:59:37

Declarations

1: 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 an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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

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

4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

5: This report cannot be reproduced except in full, without prior written approval of the Company.

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