



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.247

TEST REPORT

For

ShangHai Ehong Technology Co.,Ltd.

Room 501, No.485 Xingmei Road, Minhang district, Shanghai, China

FCC ID: 2ACCRMC60

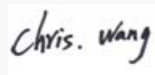
Report Type: Original Report	Product Type: BT Module
Project Engineer:	<u>Tyrone Wang</u> 
Report Number:	<u>RSHA210730001-00A</u>
Report Date:	<u>2021-08-11</u>
Reviewed By:	<u>Chris Wang</u> 
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu province, China Tel: +86-0512-86175000 Fax: +86-0512-88934268

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	ShangHai Ehong Technology Co.,Ltd.
Product Type:	BT Module
Tested Model:	EH-MC60
Power Supply:	DC 1.8-3.6V
RF Function:	BLE(1Mbps), BLE(2Mbps)
Maximum output power:	1Mbps:7.12dBm;2Mbps:7.26dBm
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	40
Channel Separation:	2 MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
*Maximum Antenna Gain:	1.55dBi

**Note: The Maximum Antenna Gain was declared by the manufacturer.*

**All measurement and test data in this report was gathered from production sample serial number: RSHA210730001-1(Assigned by the BACL. The EUT supplied by the applicant was received on 2021-07-30.)*

Objective

This report is prepared on behalf of *ShangHai Ehong Technology Co.,Ltd.* 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 FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

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

Measurement Uncertainty

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

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), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISSED 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 BLE mode, EUT was tested with channel 0, 19 and 39.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	...	...
...	...	...	...
...	...	...	...
18	2438	38	2478
19	2440	39	2480

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test software: EMI test tool.

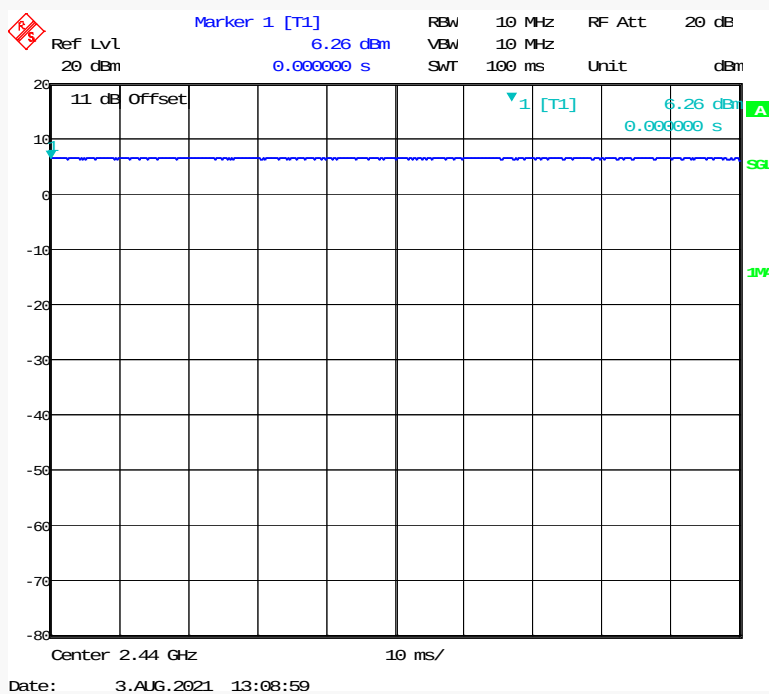
Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	Channel	*Power Level
BLE	1Mbps	Low	6
		Middle	6
		High	6
	2Mbps	Low	6
		Middle	6
		High	6

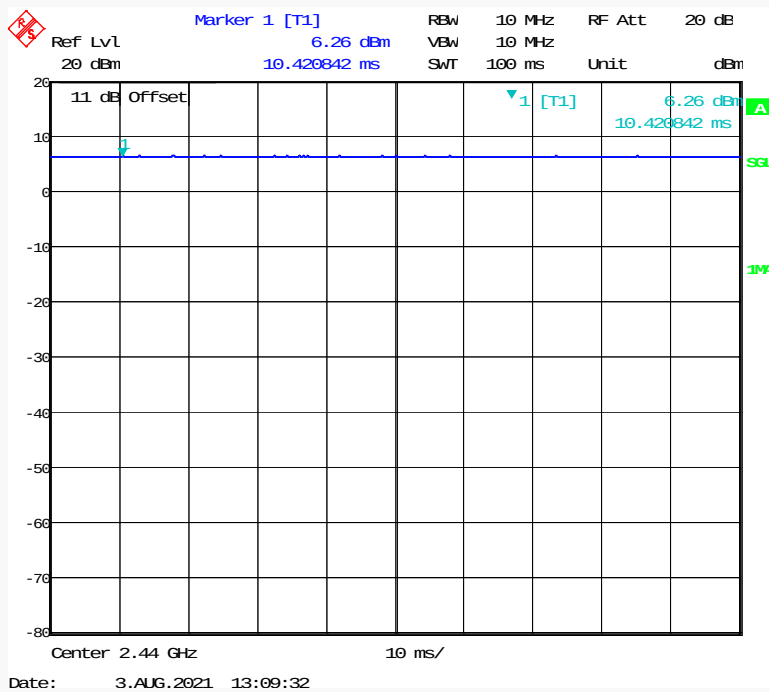
Note*: The power level setting was declared by the applicant.

Duty Cycle:

BLE(1Mbps) Mode Middle Channel



BLE(2Mbps) Mode Middle Channel



Mode	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)	10log(1/x)
BLE (1Mbps)	100	100.00	100	0.00
BLE (2Mbps)	100	100.00	100	0.00

Note: “x” means the Duty Cycle.

Support Equipment List and Details

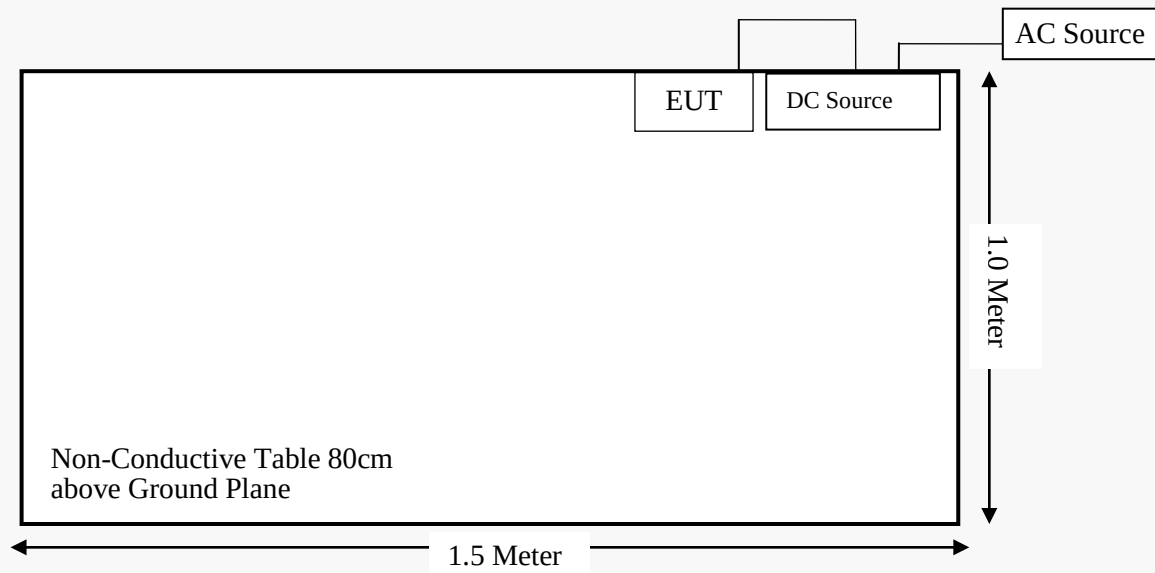
Manufacturer	Description	Model	Serial Number
ZHAOXIN	DC Power Supply	RXN-605D	18R605D060264

External I/O Cable

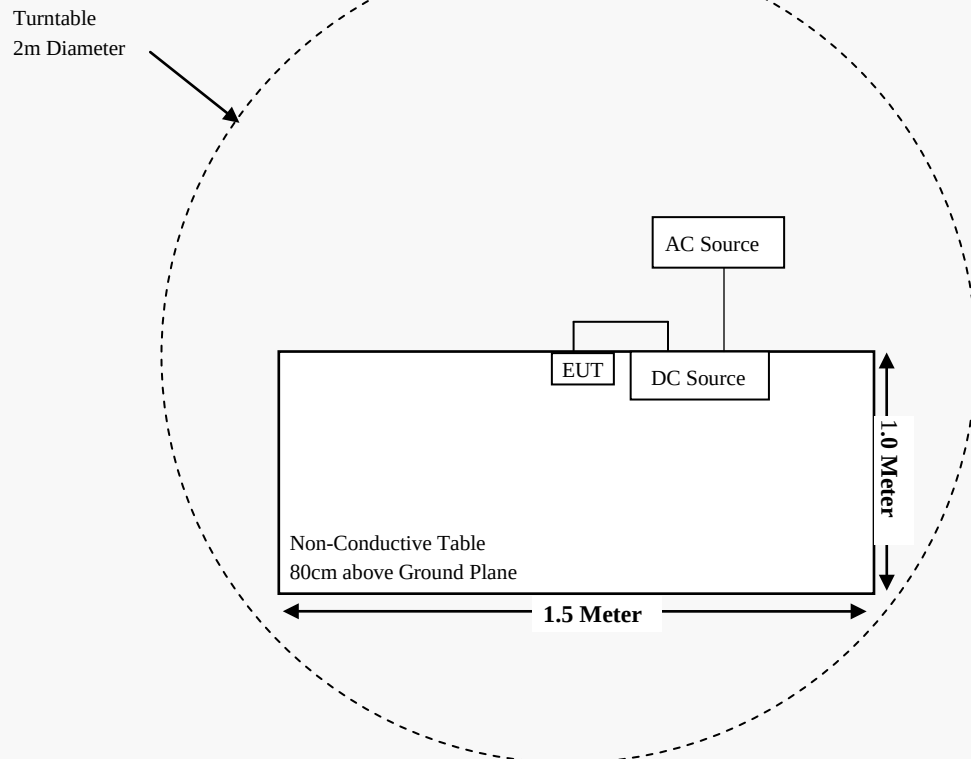
Cable Description	Length (m)	From Port	To
Power cable1	1.0	EUT	DC Source
Power cable2	1.0	DC Source	AC Source

Block Diagram of Test Setup

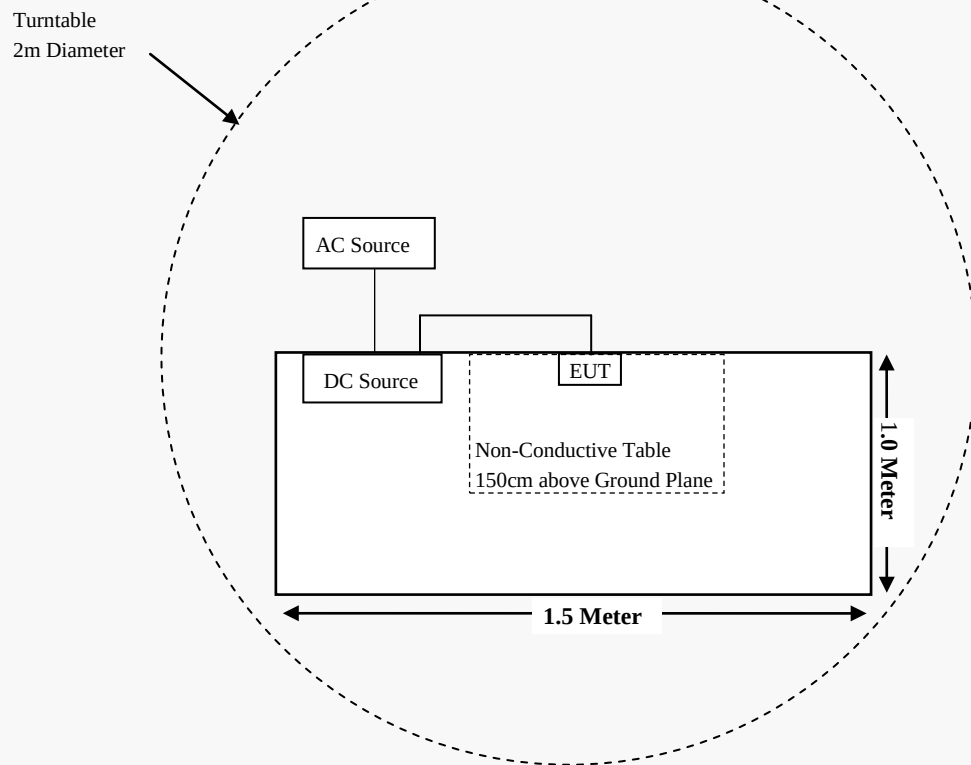
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2020-11-27	2021-11-26
Sunol Sciences	Hybrid 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	2021-03-16	2022-03-15
ETS-LINDGREN	Horn Antenna	3115	6229	2020-01-07	2023-01-06
ETS-LINDGREN	Horn Antenna	3116	2516	2020-01-07	2023-01-06
A.H.Systems,inc	Amplifier	PAM-0118P	512	2021-02-20	2022-02-19
EM Electronics Corporation	Amplifier	EM18G40G	060726	2021-03-22	2022-03-21
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2020-08-05	2021-08-04
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2020-08-05	2021-08-04
Narda	Attenuator	10dB	010	2021-08-04	2022-08-03
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2020-08-15	2021-08-14
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	FSIQ26	100048	2020-11-27	2021-11-26
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Agilent	Power Meter	N1912A	MY5000492	2020-11-18	2021-11-17
Agilent	Power Sensor	N1921A	MY54210024	2020-11-18	2021-11-17
Ehong	RF Cable	Ehong C01	C01	Each Time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	102454	2020-11-27	2021-11-26
Rohde & Schwarz	LISN	ENV216	101115	2020-11-27	2021-11-26
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	357.8810.52	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 Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE(1Mbps)	2402~2480	1.55	1.43	7.50	5.62	20	0.0016	1.0
BLE(2Mbps)	2402~2480	1.55	1.43	7.50	5.62	20	0.0016	1.0

Note: The tune-up Conducted Power was declared by the manufacturer.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

Antenna Connector Construction

The EUT has a PCB antenna for BLE which the antenna gain is 1.55dBi, fulfill the requirement of this section. Please refer to the EUT photos.

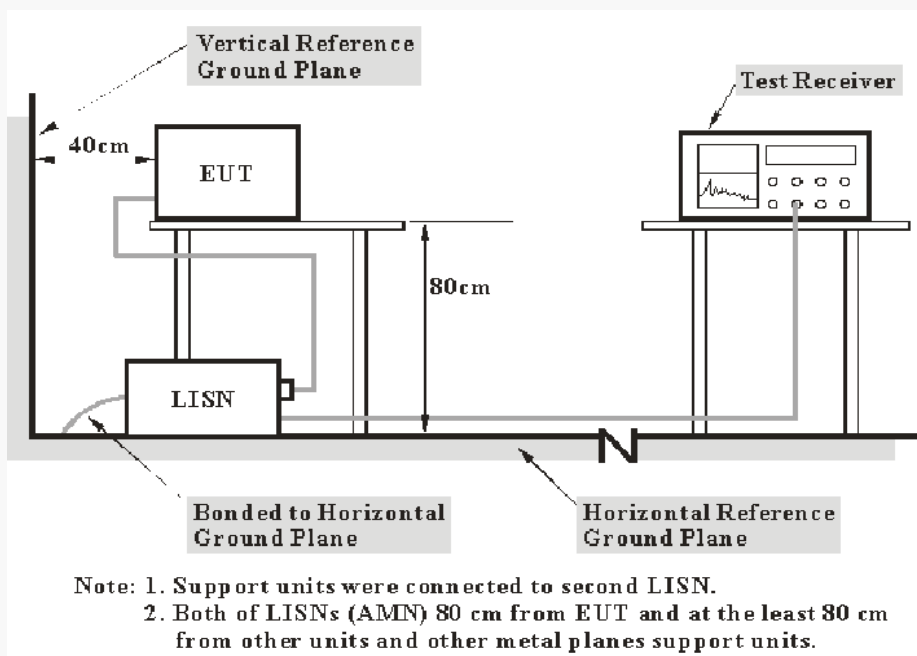
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

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

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the DC source 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 Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Attenuator. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Attenuator (dB)}$$

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.

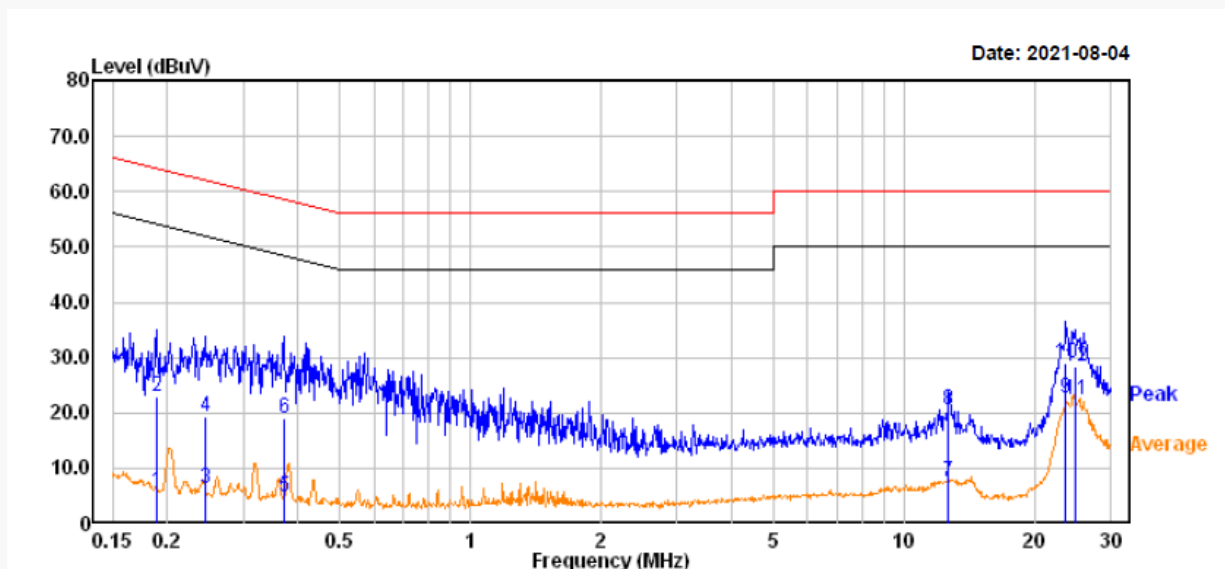
Test Data

Environmental Conditions

Temperature:	24.6 °C
Relative Humidity:	49 %
ATM Pressure:	101.2 kPa

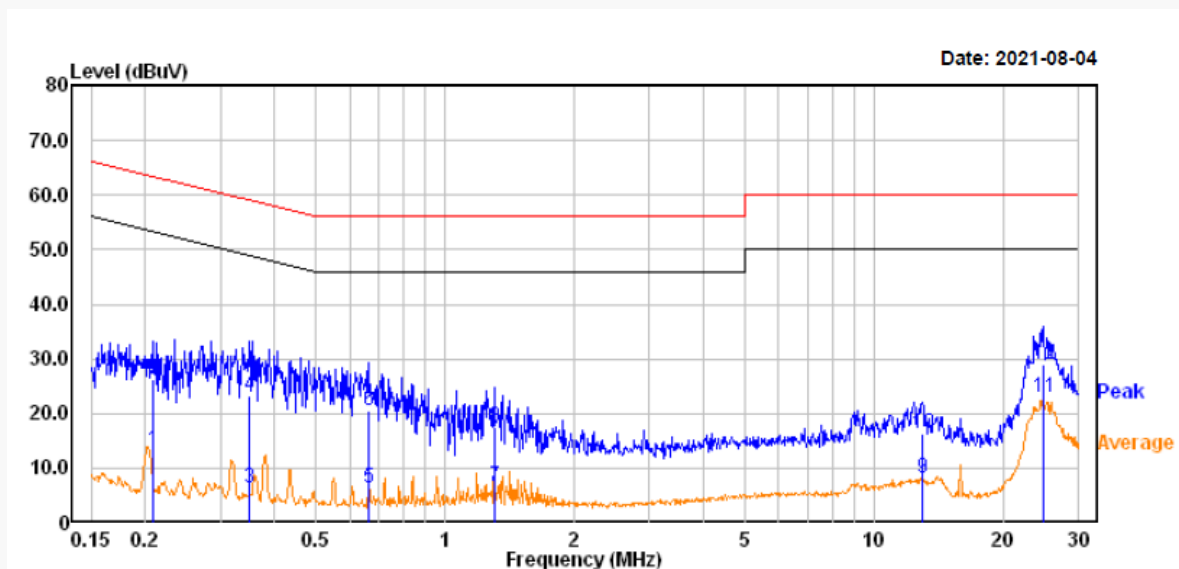
The testing was performed by Tyrone Wang on 2021-08-04.

Test Result: Compliant.

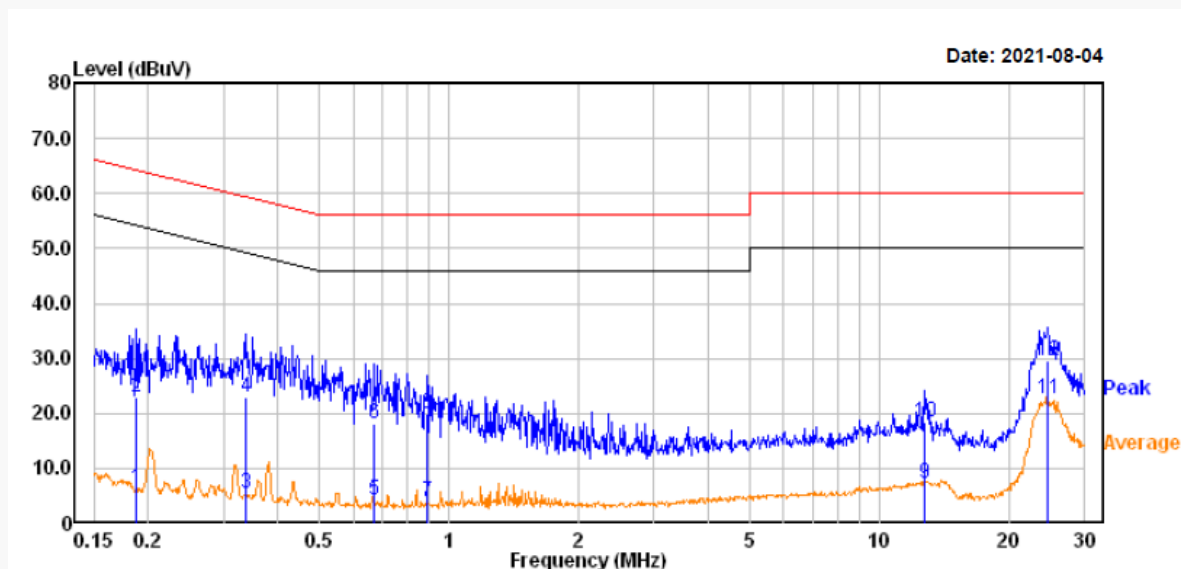
Data rate: 1Mbps*EUT operation mode: Transmitting in middle channel (worst case)***AC 120V/60 Hz, Line**

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.189	-14.00	19.82	5.82	54.10	-48.28	Average
2	0.189	3.00	19.82	22.82	64.10	-41.28	QP
3	0.246	-13.50	19.82	6.32	51.90	-45.58	Average
4	0.246	-0.50	19.82	19.32	61.90	-42.58	QP
5	0.372	-14.80	19.78	4.98	48.47	-43.49	Average
6	0.372	-0.90	19.78	18.88	58.47	-39.59	QP
7	12.666	-12.00	19.60	7.60	50.00	-42.40	Average
8	12.666	0.80	19.60	20.40	60.00	-39.60	QP
9	23.617	3.00	19.76	22.76	50.00	-27.24	Average
10	23.617	9.30	19.76	29.06	60.00	-30.94	QP
11	24.824	2.70	19.70	22.40	50.00	-27.60	Average
12	24.824	8.70	19.70	28.40	60.00	-31.60	QP

AC 120V/60 Hz, Neutral

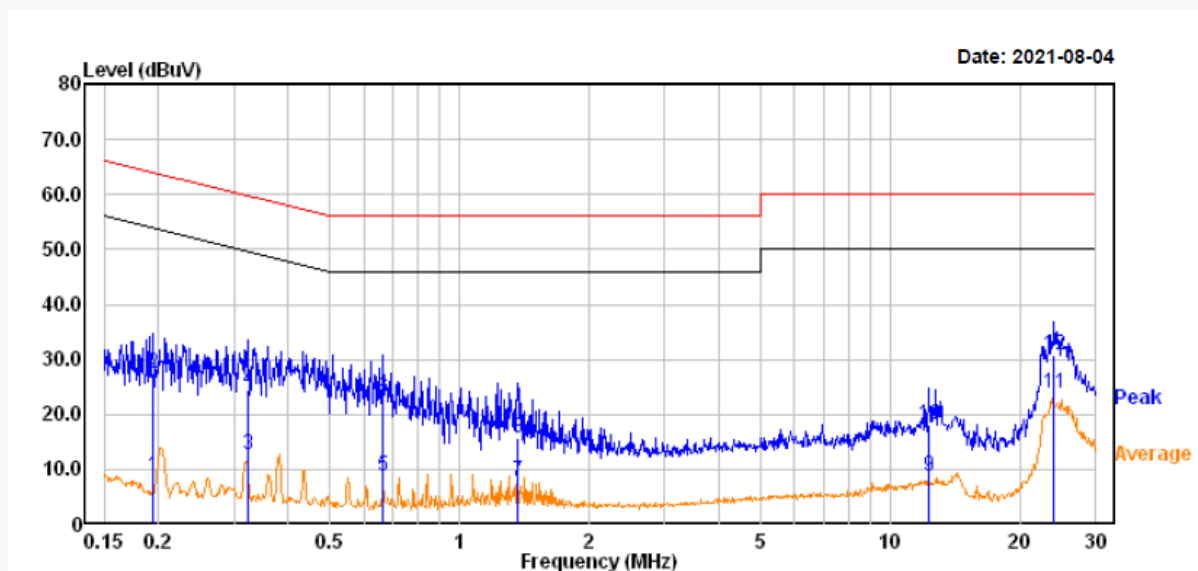


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.208	-6.51	19.82	13.31	53.27	-39.96	Average
2	0.208	6.30	19.82	26.12	63.27	-37.15	QP
3	0.350	-13.53	19.81	6.28	48.96	-42.68	Average
4	0.350	3.30	19.81	23.11	58.96	-35.85	QP
5	0.662	-13.36	19.75	6.39	46.00	-39.61	Average
6	0.662	0.70	19.75	20.45	56.00	-35.55	QP
7	1.305	-13.10	19.82	6.72	46.00	-39.28	Average
8	1.305	-2.20	19.82	17.62	56.00	-38.38	QP
9	12.986	-11.51	19.60	8.09	50.00	-41.91	Average
10	12.986	-3.40	19.60	16.20	60.00	-43.80	QP
11	24.824	3.29	19.70	22.99	50.00	-27.01	Average
12	24.824	9.30	19.70	29.00	60.00	-31.00	QP

Data rate: 2Mbps*EUT operation mode: Transmitting in low channel (worst case)***AC 120V/60 Hz, Line**

	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.188	-13.57	19.82	6.25	54.14	-47.89	Average
2	0.188	3.21	19.82	23.03	64.14	-41.11	QP
3	0.338	-14.51	19.81	5.30	49.25	-43.95	Average
4	0.338	3.10	19.81	22.91	59.25	-36.34	QP
5	0.672	-15.66	19.75	4.09	46.00	-41.91	Average
6	0.672	-1.50	19.75	18.25	56.00	-37.75	QP
7	0.893	-15.74	19.73	3.99	46.00	-42.01	Average
8	0.893	0.29	19.73	20.02	56.00	-35.98	QP
9	12.729	-12.41	19.60	7.19	50.00	-42.81	Average
10	12.729	-1.20	19.60	18.40	60.00	-41.60	QP
11	24.700	3.01	19.71	22.72	50.00	-27.28	Average
12	24.700	10.00	19.71	29.71	60.00	-30.29	QP

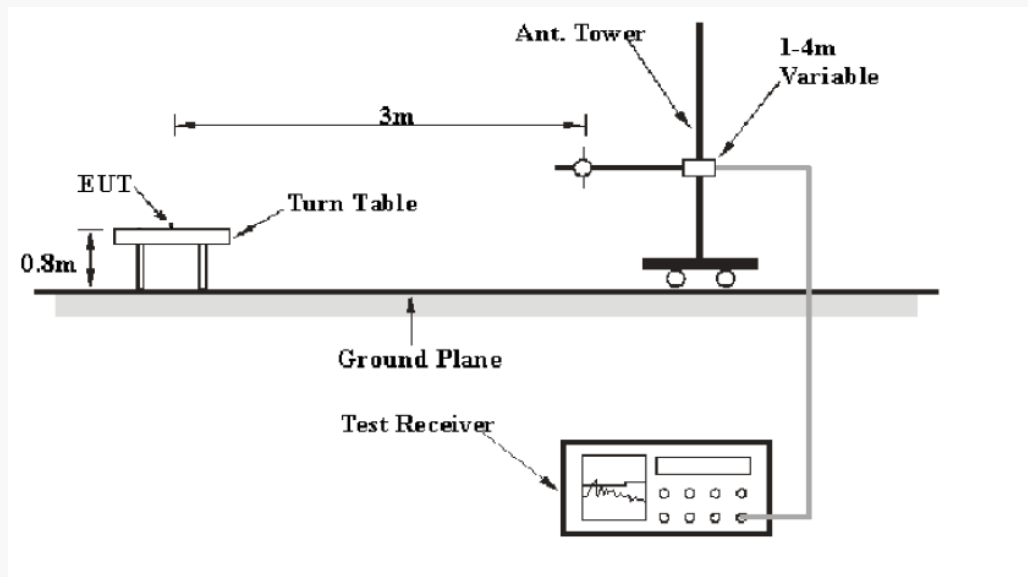
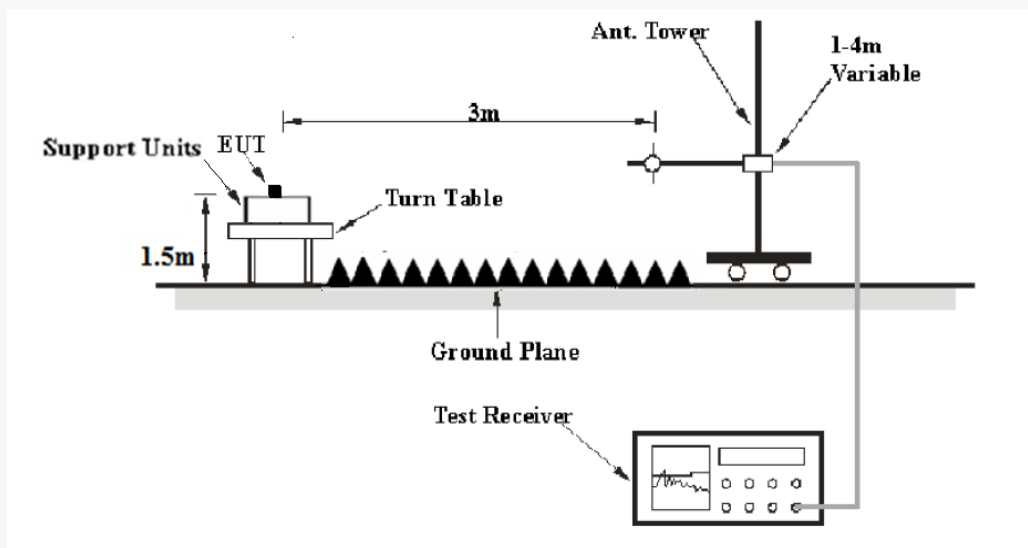
AC 120V/60 Hz, Neutral



		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.194	-11.21	19.82	8.61	53.85	-45.24	Average
2	0.194	7.60	19.82	27.42	63.85	-36.43	QP
3	0.322	-7.25	19.82	12.57	49.67	-37.10	Average
4	0.322	4.60	19.82	24.42	59.67	-35.25	QP
5	0.666	-10.94	19.75	8.81	46.00	-37.19	Average
6	0.666	3.10	19.75	22.85	56.00	-33.15	QP
7	1.365	-12.13	19.83	7.70	46.00	-38.30	Average
8	1.365	-4.00	19.83	15.83	56.00	-40.17	QP
9	12.354	-10.71	19.60	8.89	50.00	-41.11	Average
10	12.354	-1.61	19.60	17.99	60.00	-42.01	QP
11	24.092	3.97	19.73	23.70	50.00	-26.30	Average
12	24.092	11.11	19.73	30.84	60.00	-29.16	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	Detector
30 MHz – 1000 MHz	120 kHz	300 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:	24.1~25.5 °C
Relative Humidity:	50~52 %
ATM Pressure:	101.1~101.5 kPa

The testing was performed by Tyrone Wang from 2021-08-03 to 2021-08-04.

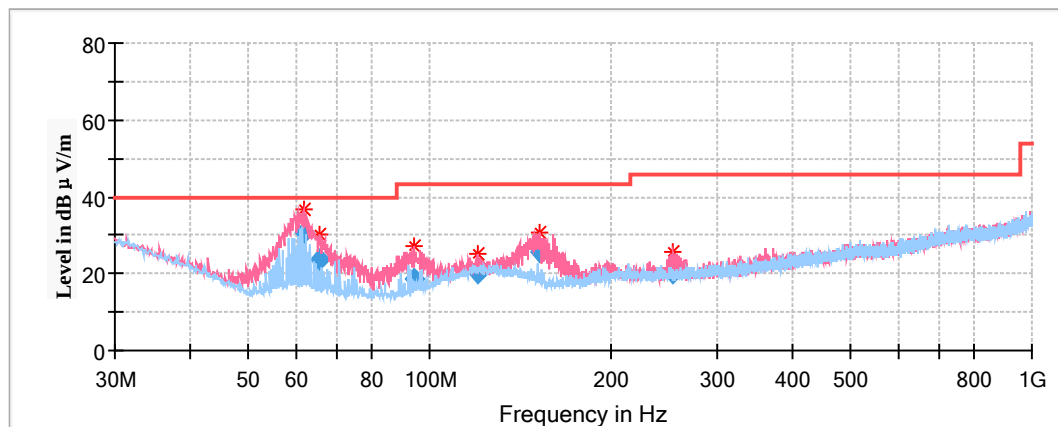
Test Result: Compliant.

EUT operation mode: Transmitting

For BLE(1Mbps) Mode:

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

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case **middle channel of operation in the Y axis of orientation** was recorded)



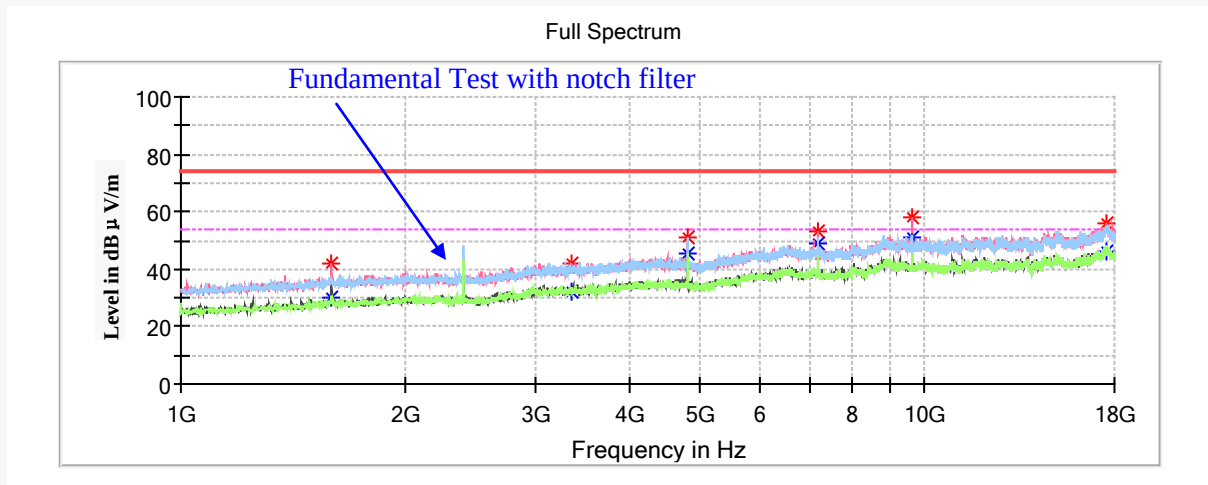
Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)				
61.648950	30.76	100.0	V	232.0	-14.7	40.00	9.24
65.649100	23.69	100.0	V	277.0	-15.9	40.00	16.31
94.267400	18.85	100.0	V	112.0	-15.8	43.50	24.65
119.968600	20.12	100.0	V	90.0	-11.1	43.50	23.38
151.975900	25.78	100.0	V	167.0	-13.1	43.50	17.72
254.194550	20.26	100.0	V	96.0	-11.9	46.00	25.74

1GHz-18GHz :

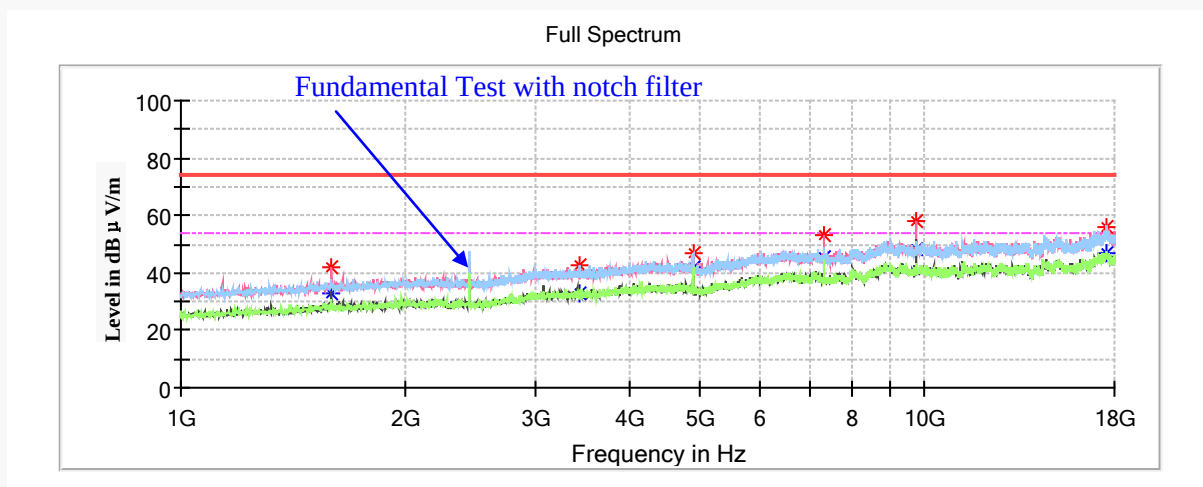
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

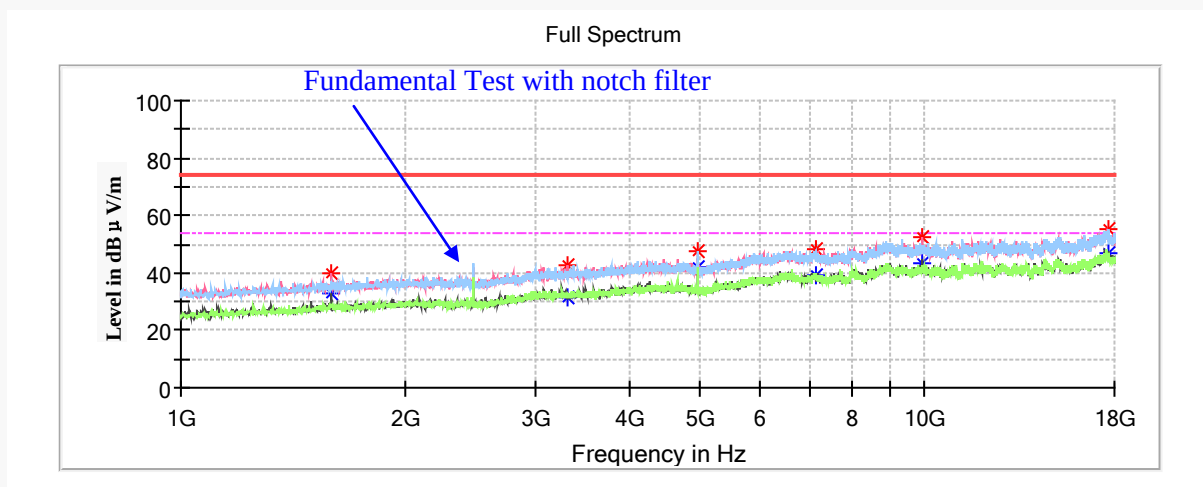
1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2402MHz

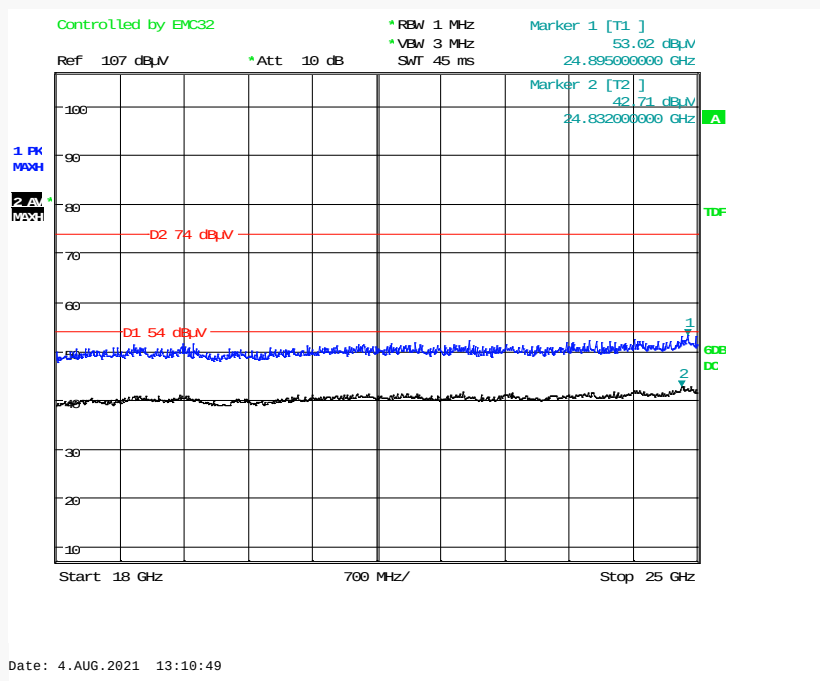
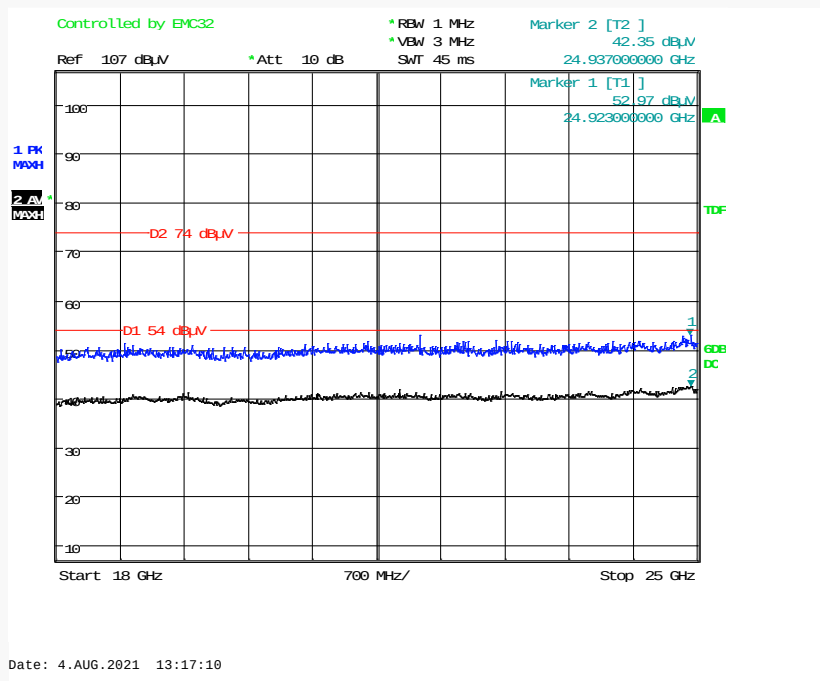
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1595.000000	42.24	---	150.0	V	296.0	-6.2	74.00	31.76
1595.000000	---	29.77	150.0	V	296.0	-6.2	54.00	24.23
3352.800000	42.07	---	200.0	V	322.0	-1.8	74.00	31.93
3352.800000	---	32.12	200.0	V	322.0	-1.8	54.00	21.88
4804.000000	---	45.34	150.0	H	29.0	0.6	54.00	8.66
4804.000000	51.30	---	150.0	H	29.0	0.6	74.00	22.70
7206.000000	---	48.71	150.0	V	121.0	5.3	54.00	5.29
7206.000000	53.28	---	150.0	V	121.0	5.3	74.00	20.72
9608.800000	---	50.81	200.0	V	144.0	9.1	54.00	3.19
9608.800000	58.17	---	200.0	V	144.0	9.1	74.00	15.83
17600.500000	55.70	---	150.0	V	83.0	14.2	74.00	18.30
17600.500000	---	46.40	150.0	V	83.0	14.2	54.00	7.60

Middle Channel: 2440MHz

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	---	32.98	150.0	V	296.0	-6.2	54.00	21.02
1595.000000	41.72	---	150.0	V	296.0	-6.2	74.00	32.28
3437.800000	42.96	---	150.0	H	105.0	-1.8	74.00	31.04
3437.800000	---	32.75	150.0	H	105.0	-1.8	54.00	21.25
4880.000000	---	42.06	150.0	H	51.0	0.5	54.00	11.94
4880.000000	47.19	---	150.0	H	51.0	0.5	74.00	26.81
7320.000000	52.81	---	150.0	V	151.0	5.1	74.00	21.19
7320.000000	---	45.11	150.0	V	151.0	5.1	54.00	8.89
9761.800000	---	48.08	200.0	V	157.0	8.9	54.00	5.92
9761.800000	58.19	---	200.0	V	157.0	8.9	74.00	15.81
17563.100000	---	46.87	150.0	V	0.0	14.3	54.00	7.13
17563.100000	56.07	---	150.0	V	0.0	14.3	74.00	17.93

High Channel: 2480MHz

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	39.65	---	150.0	V	296.0	-6.2	74.00	34.35
1593.300000	---	32.76	150.0	V	296.0	-6.2	54.00	21.24
3301.800000	42.56	---	150.0	V	159.0	-1.8	74.00	31.44
3301.800000	---	31.58	150.0	V	159.0	-1.8	54.00	22.42
4960.000000	---	41.69	150.0	H	51.0	0.3	54.00	12.31
4960.000000	47.30	---	150.0	H	51.0	0.3	74.00	26.70
7145.500000	48.01	---	200.0	V	0.0	5.4	74.00	25.99
7145.500000	---	38.96	200.0	V	0.0	5.4	54.00	15.04
9918.200000	52.16	---	200.0	V	149.0	8.8	74.00	21.84
9918.200000	---	43.49	200.0	V	149.0	8.8	54.00	10.51
17632.800000	---	46.51	150.0	H	357.0	14.1	54.00	7.49
17632.800000	55.33	---	150.0	H	357.0	14.1	74.00	18.67

18GHz-25GHz*(The worst case middle channel of operation in the Y axis of orientation was recorded)***Horizontal****Vertical**

Restricted Bands Emissions Test:

(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 10dB attenuator.

2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

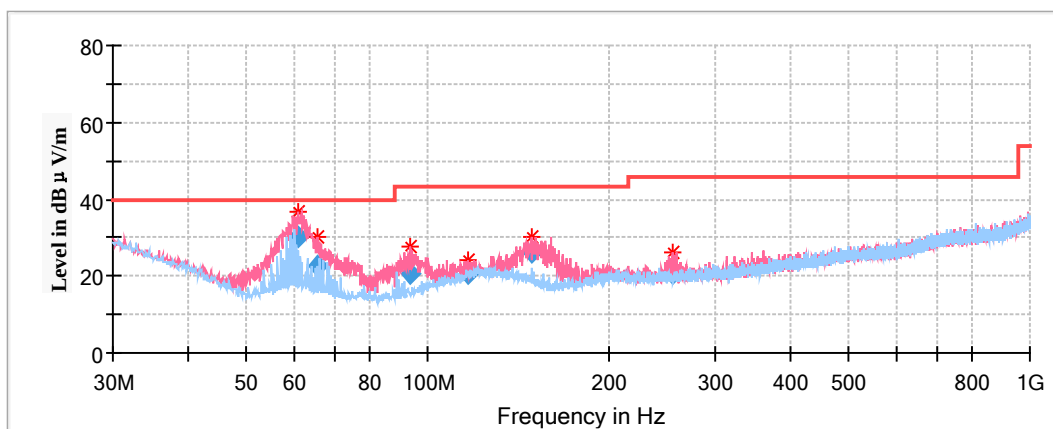
Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

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: 2402MHz								
2390.00	48.88	---	150.0	V	331.0	3.8	74.00	25.12
2390.00	---	46.22	150.0	V	331.0	3.8	54.00	7.78
High Channel: 2480MHz								
2483.50	50.03	---	150.0	V	300.0	4.1	74.00	23.97
2483.50	---	46.14	150.0	V	300.0	4.1	54.00	7.86

For BLE(2Mbps) Mode:**Spurious Emission Test:****30MHz-1GHz:**

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case **low channel of operation in the Y axis of orientation** was recorded)



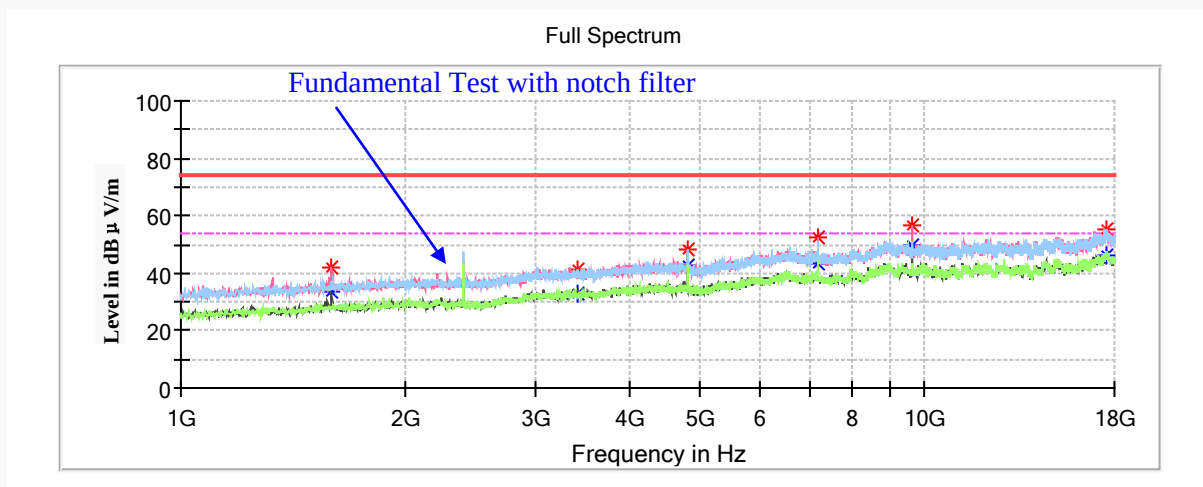
Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	Quasi-peak (dB μ V/m)	Height (cm)	Polar (H/V)				
60.790350	30.40	100.0	V	38.0	-14.7	40.00	9.60
65.525550	22.67	100.0	V	235.0	-15.5	40.00	17.33
93.778300	20.46	100.0	V	153.0	-16.0	43.50	23.04
116.813500	20.83	100.0	V	349.0	-11.5	43.50	22.67
148.345900	26.28	100.0	V	142.0	-12.7	43.50	17.22
255.648950	20.70	100.0	V	76.0	-11.8	46.00	25.30

1GHz-18GHz:

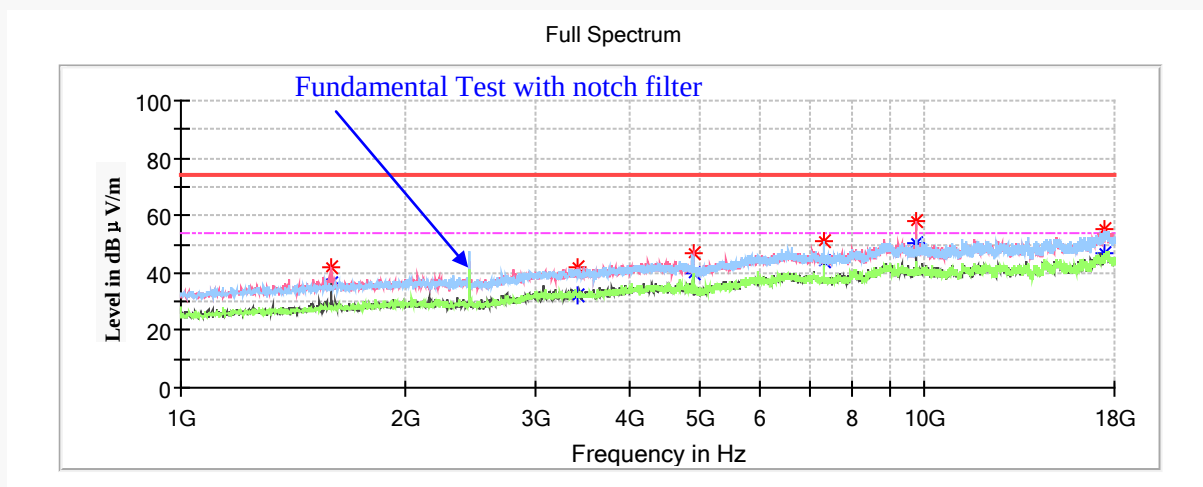
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

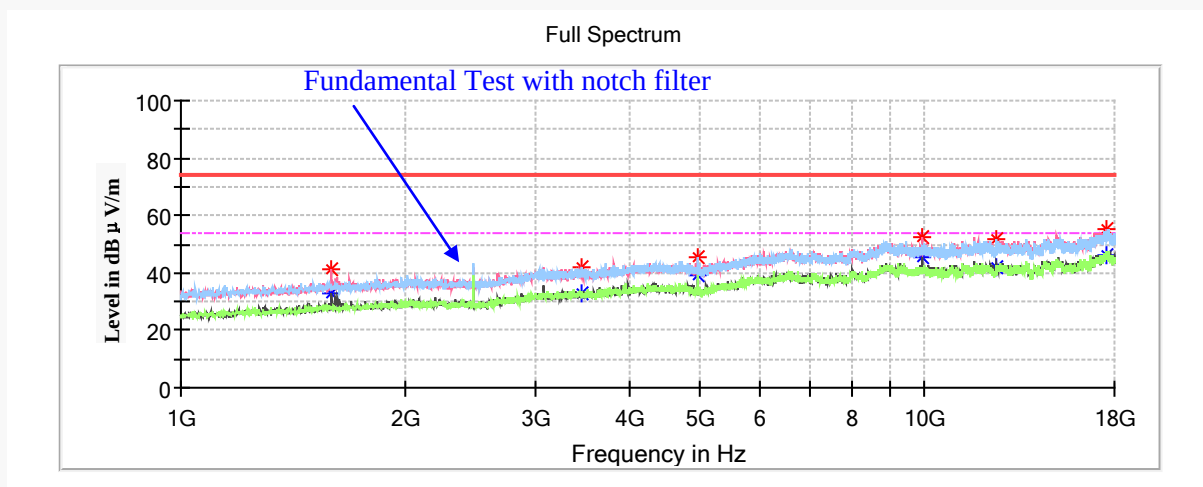
1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2402MHz

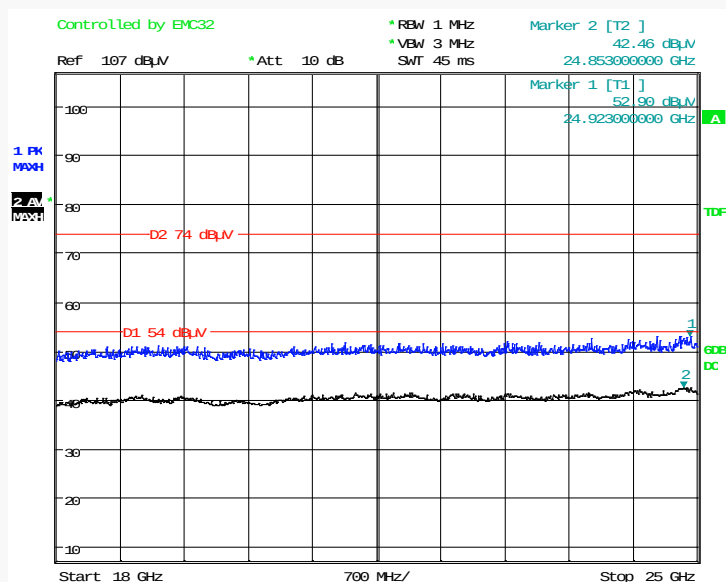
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1593.300000	42.15	---	200.0	V	288.0	-6.2	74.00	31.85
1593.300000	---	33.72	200.0	V	288.0	-6.2	54.00	20.28
3407.200000	---	32.75	150.0	V	310.0	-1.8	54.00	21.25
3407.200000	41.41	---	150.0	V	310.0	-1.8	74.00	32.59
4804.000000	48.56	---	200.0	V	314.0	0.6	74.00	25.44
4804.000000	---	42.75	200.0	V	314.0	0.6	54.00	11.25
7206.000000	---	43.60	150.0	V	166.0	5.3	54.00	10.40
7206.000000	52.32	---	150.0	V	166.0	5.3	74.00	21.68
9605.400000	---	49.36	200.0	V	160.0	9.1	54.00	4.64
9610.500000	56.72	---	200.0	V	160.0	9.1	74.00	17.28
17585.200000	---	46.25	150.0	H	237.0	14.2	54.00	7.75
17585.200000	55.41	---	150.0	H	237.0	14.2	74.00	18.59

Middle Channel: 2440MHz

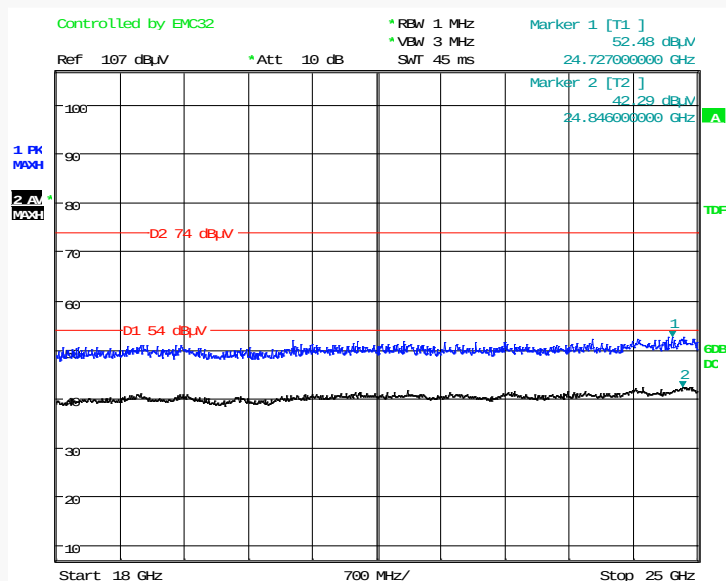
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1593.300000	---	36.11	200.0	V	270.0	-6.2	54.00	17.89
1593.300000	42.22	---	200.0	V	270.0	-6.2	74.00	31.78
3407.200000	---	32.17	200.0	V	283.0	-1.8	54.00	21.83
3407.200000	41.98	---	200.0	V	283.0	-1.8	74.00	32.02
4880.000000	---	39.95	150.0	H	147.0	0.5	54.00	14.05
4880.000000	47.13	---	150.0	H	147.0	0.5	74.00	26.87
7320.000000	---	44.11	200.0	V	129.0	5.1	54.00	9.89
7320.000000	50.83	---	200.0	V	129.0	5.1	74.00	23.17
9761.800000	---	50.48	200.0	V	143.0	8.9	54.00	3.52
9761.800000	57.85	---	200.0	V	143.0	8.9	74.00	16.15
17479.800000	---	47.19	200.0	V	168.0	14.4	54.00	6.81
17479.800000	55.39	---	200.0	V	168.0	14.4	74.00	18.61

High Channel: 2480MHz

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	---	32.61	200.0	V	282.0	-6.2	54.00	21.39
1593.300000	40.98	---	200.0	V	282.0	-6.2	74.00	33.02
3461.600000	---	33.01	150.0	H	232.0	-1.7	54.00	20.99
3461.600000	42.02	---	150.0	H	232.0	-1.7	74.00	31.98
4960.000000	---	39.48	150.0	H	321.0	0.3	54.00	14.52
4960.000000	45.29	---	150.0	H	321.0	0.3	74.00	28.71
9921.600000	---	45.43	200.0	V	154.0	8.8	54.00	8.57
9921.600000	52.21	---	200.0	V	154.0	8.8	74.00	21.79
12519.200000	---	42.18	150.0	V	154.0	10.7	54.00	11.82
12519.200000	51.76	---	150.0	V	154.0	10.7	74.00	22.24
17549.500000	---	46.16	200.0	V	282.0	14.3	54.00	7.84
17549.500000	55.53	---	200.0	V	282.0	14.3	74.00	18.47

18GHz-25GHz*(The worst case low channel of operation in the Y axis of orientation was recorded)***Horizontal**

Date: 4.AUG.2021 13:23:15

Vertical

Date: 4.AUG.2021 13:30:12

Restricted Bands Emissions Test:

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

Note:

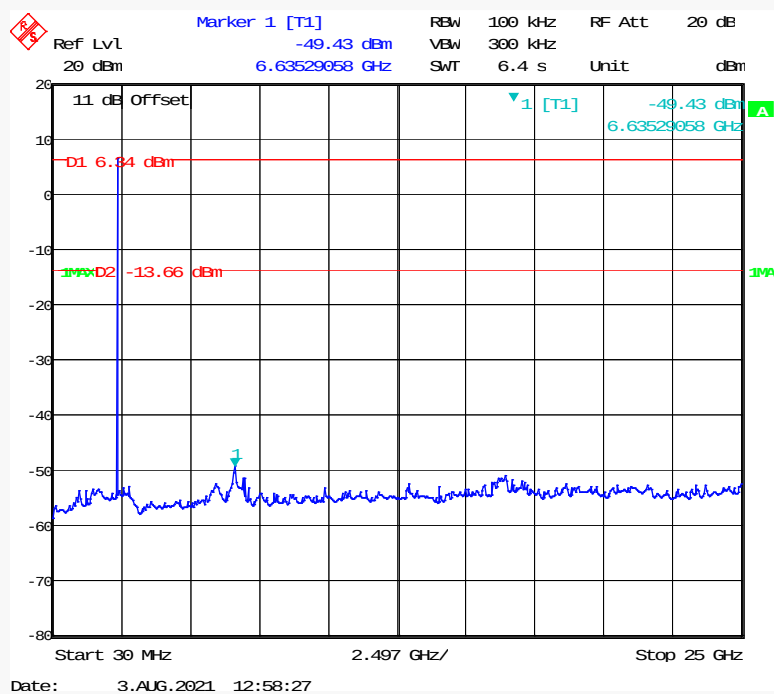
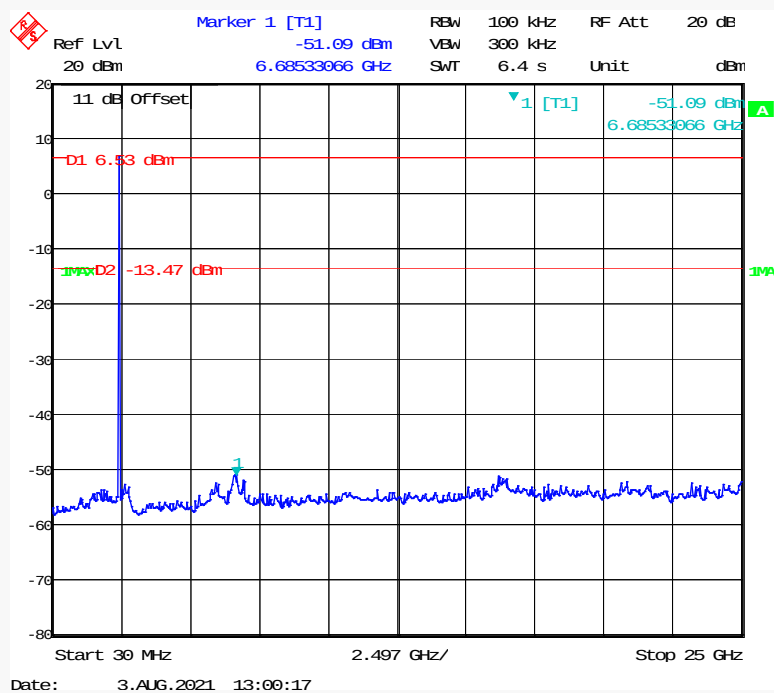
1. This test was performed with the 10dB attenuator.

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)

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: 2402MHz								
2390.00	50.28	---	200.0	V	94.0	3.8	74.00	23.72
2390.00	---	45.56	200.0	V	94.0	3.8	54.00	8.44
High Channel: 2480MHz								
2483.50	51.62	---	150.0	V	2.0	4.1	74.00	22.38
2483.50	---	47.23	150.0	V	2.0	4.1	54.00	6.77

Conducted Spurious Emissions at Antenna Port**BLE(1Mbps) Mode Low Channel****BLE(1Mbps) Mode Middle Channel**

Marker 1 [T1]
 -50.77 dBm
 6.3529058 GHz

RBW 100 kHz RF Att 20 dB
 VBW 300 kHz
 SWT 6.4 s Unit dBm

Ref Lvl 20 dBm

11 dB Offset

1 [T1] -50.77 dBm
 6.3529058 GHz

-50.77 dBm

-13.89 dBm

Start 30 MHz 2.497 GHz/ Stop 25 GHz

Date: 3.AUG.2021 13:00:59

Ref Lvl 20 dBm

Marker 1 [T1] -50.22 dBm

RBW 100 kHz RF Att 20 dB

VBW 300 kHz

SWT 6.4 s

Unit dBm

11 dB Offset

1 [T1] -50.22 dBm

6.3529058 GHz

D1 5.11 dBm

D2 -14.89 dBm

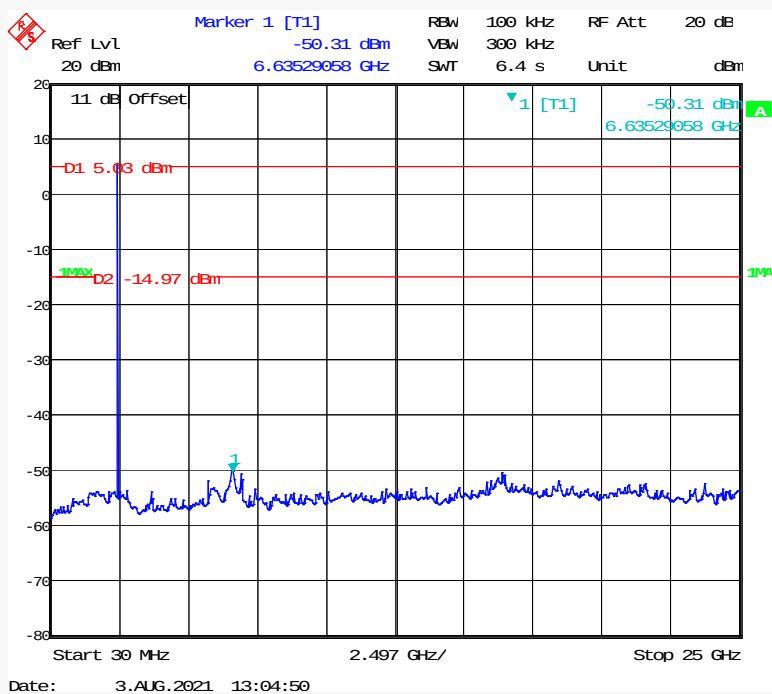
Start 30 MHz

2.497 GHz/

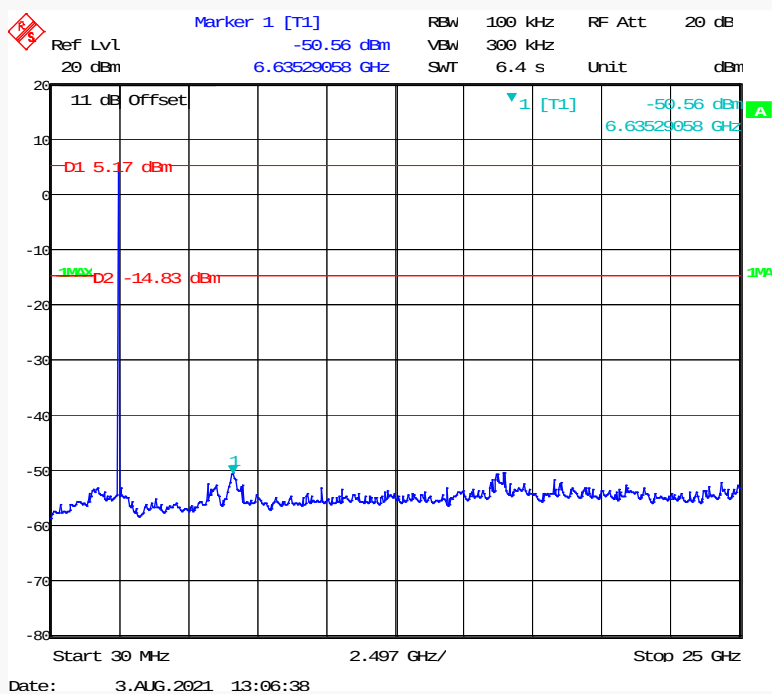
Stop 25 MHz

Date: 3.AUG.2021 13:02:45

BLE(2Mbps) Mode Middle Channel



BLE(2Mbps) Mode High Channel



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

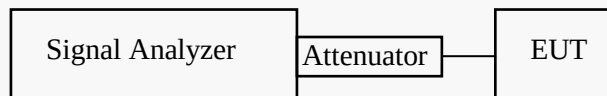
Applicable Standard

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:	24.6 °C
Relative Humidity:	49 %
ATM Pressure:	100.8 kPa

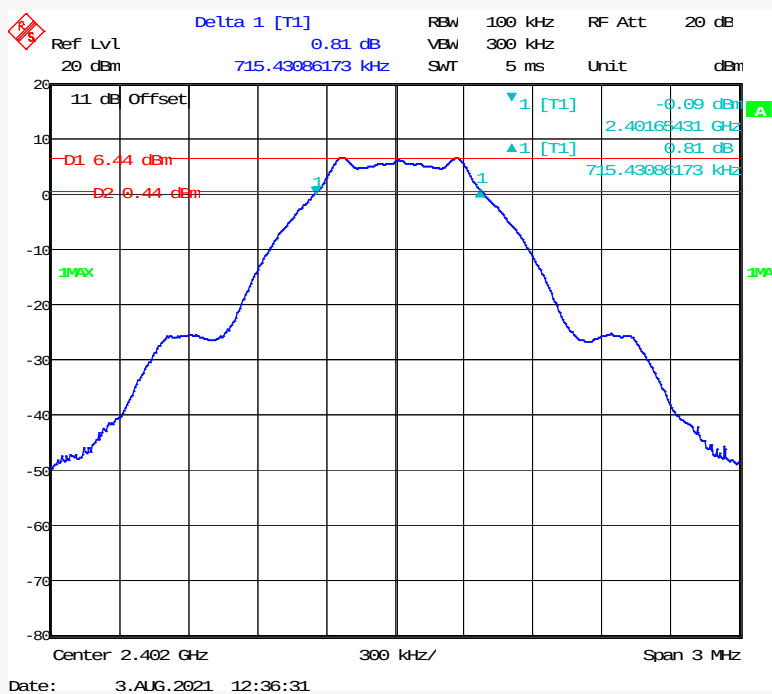
The testing was performed by Tyrone Wang on 2021-08-03.

Test Result: Compliant.

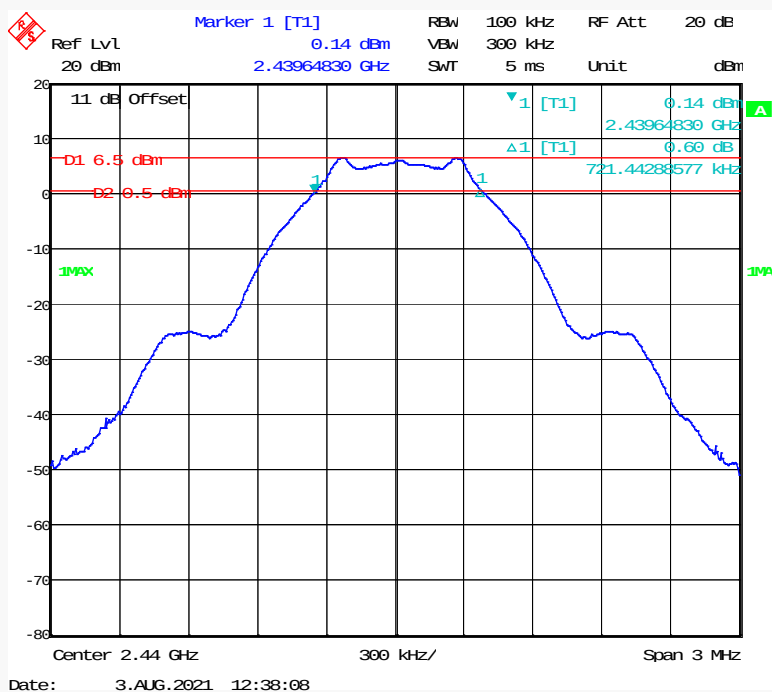
EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE(1Mbps) Mode			
Low	2402	0.715	≥ 0.5
Middle	2440	0.721	≥ 0.5
High	2480	0.709	≥ 0.5
BLE(2Mbps) Mode			
Low	2402	1.407	≥ 0.5
Middle	2440	1.371	≥ 0.5
High	2480	1.311	≥ 0.5

BLE(1Mbps) Mode Low Channel



BLE(1Mbps) Mode Middle Channel



Delta 1 [T1] 0.24 dB

Ref Lvl 20 dBm

RBW 100 kHz RF Att 20 dB

VBW 300 kHz

SWT 5 ms Unit dBm

11 dB Offset

D1 6.42 dBm

D2 0.42 dBm

1MAX

1 [T1] 0.23 dBm

2.47966032 GHz

0.24 dBm

709.41883768 kHz

Center 2.48 GHz

300 kHz/

Span 3 MHz

Date: 3.AUG.2021 12:39:29

Delta 1 [T1] 0.37 dB
 Ref Lvl 20 dBm 1.40681363 MHz
 RBW 100 kHz RF Att 20 dB
 VBW 300 kHz
 SWT 5 ms Unit dBm

11 dB Offset

D1 5.52 dBm
 D2 -0.48 dBm

1MAX

1 [T1] -0.96 dBm
 2.40136862 GHz
 0.37 dBm
 1.40681363 MHz

Center 2.402 GHz 600 kHz/ Span 6 MHz

Date: 3.AUG.2021 12:48:49

Delta 1 [T1] 0.69 dB
 Ref Lvl 20 dBm
 RBW 100 kHz
 VBW 300 kHz
 RF Att 20 dB
 1.37074148 MHz
 SWT 5 ms
 Unit dBm

11 dB Offset
 D1 5.45 dBm
 D2 -0.55 dBm
 1 [T1] -0.98 dBm
 1 [T1] 0.69 dBm
 1.37074148 MHz
 1MAX
 1MAX

Center 2.44 GHz
 600 kHz/
 Span 6 MHz

Date: 3.AUG.2021 12:44:27

Ref Lvl 20 dBm Delta 1 [T1] 0.19 dB RBW 100 kHz RF Att 20 dB
 20 dBm 1.31062124 MHz SWT 5 ms Unit dBm

11 dB Offset

D1 -5.45 dBm D2 -0.55 dBm

1 [T1] 0.02 dBm 2.47935671 GHz
 1 [T1] 0.19 dB 1.31062124 MHz

Center 2.48 GHz 600 kHz/ Span 6 MHz

Date: 3.AUG.2021 12:46:42

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

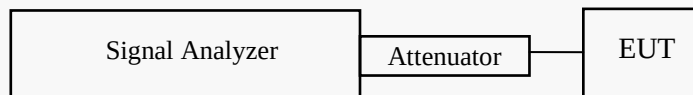
Applicable Standard

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

According to ANSI C63.10-2013 sub-clause 11.9.1.1

1. Set the RBW $\geq$ DTS bandwidth.
2. Set VBW $\geq 3 * \text{RBW}$.
3. Set span $\geq 3 * \text{RBW}$
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.



Test Data**Environmental Conditions**

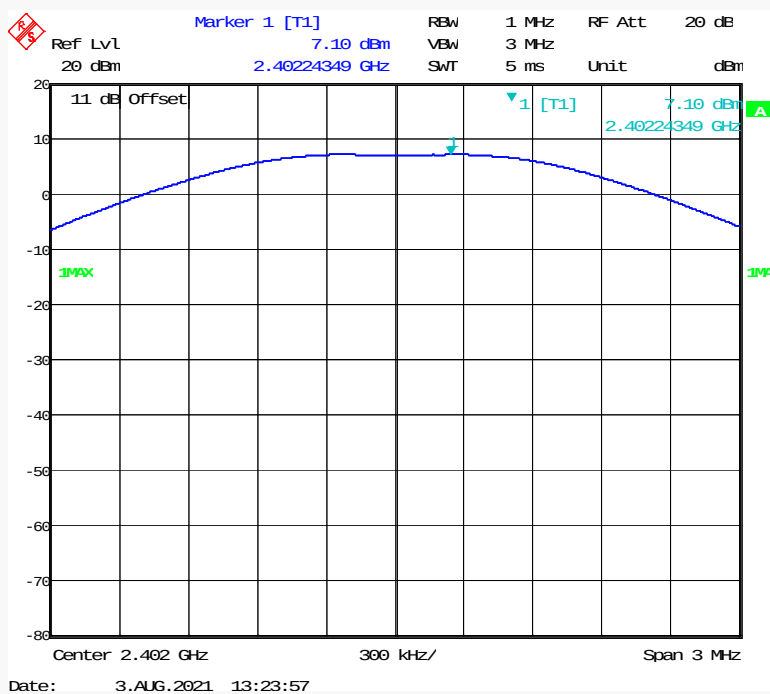
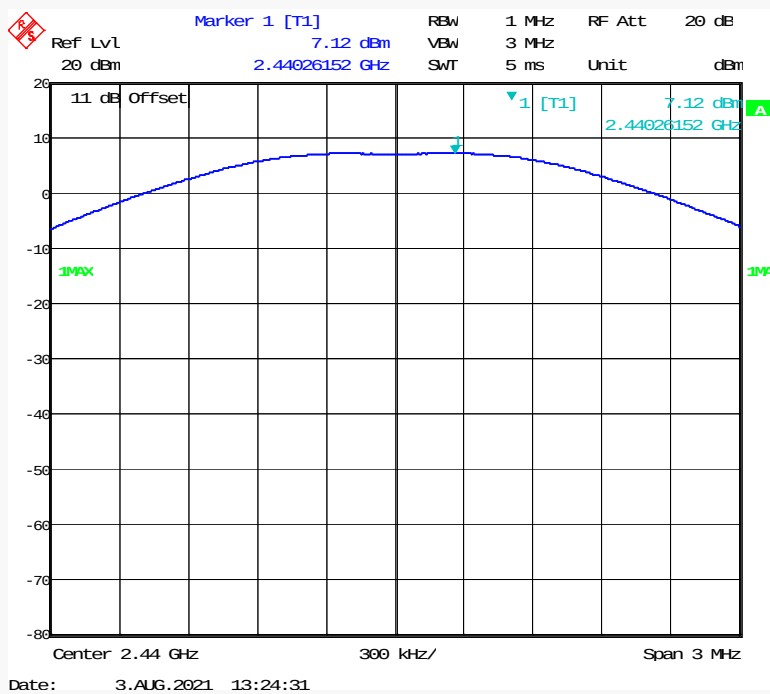
Temperature:	23.6 °C
Relative Humidity:	51%
ATM Pressure:	101.1 kPa

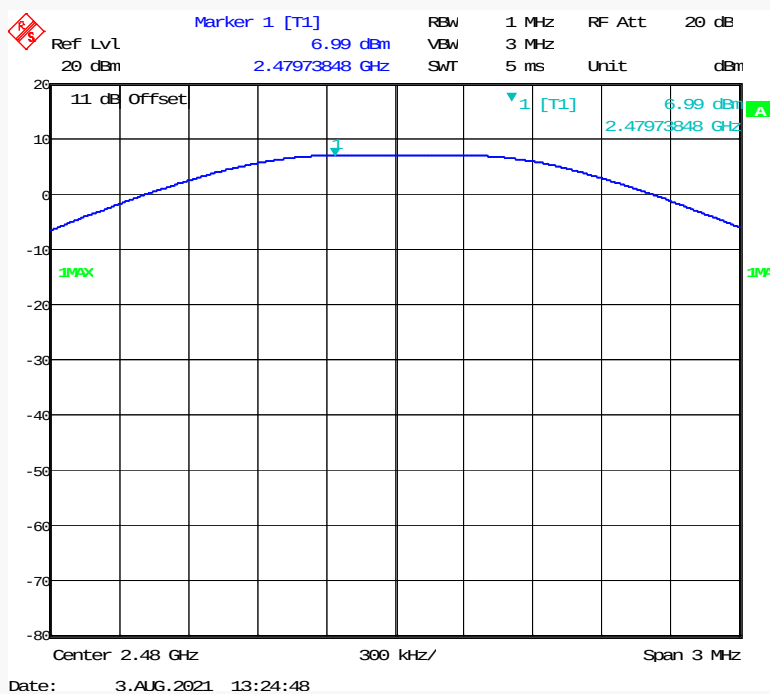
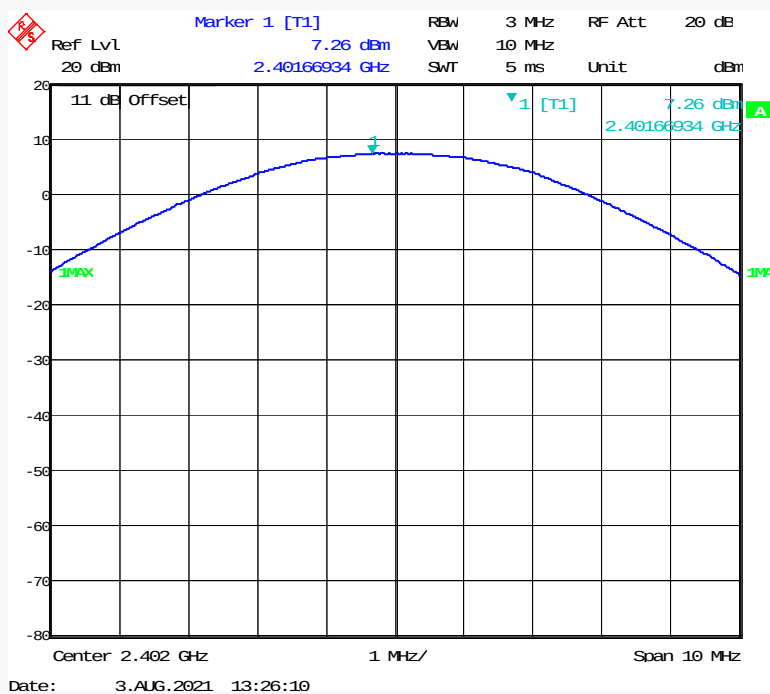
The testing was performed by Tyrone Wang on 2021-08-03.

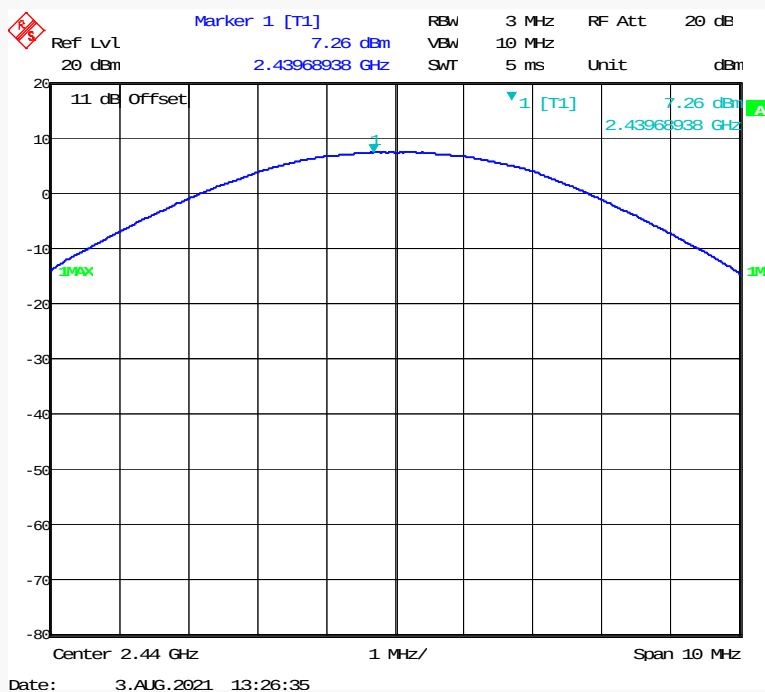
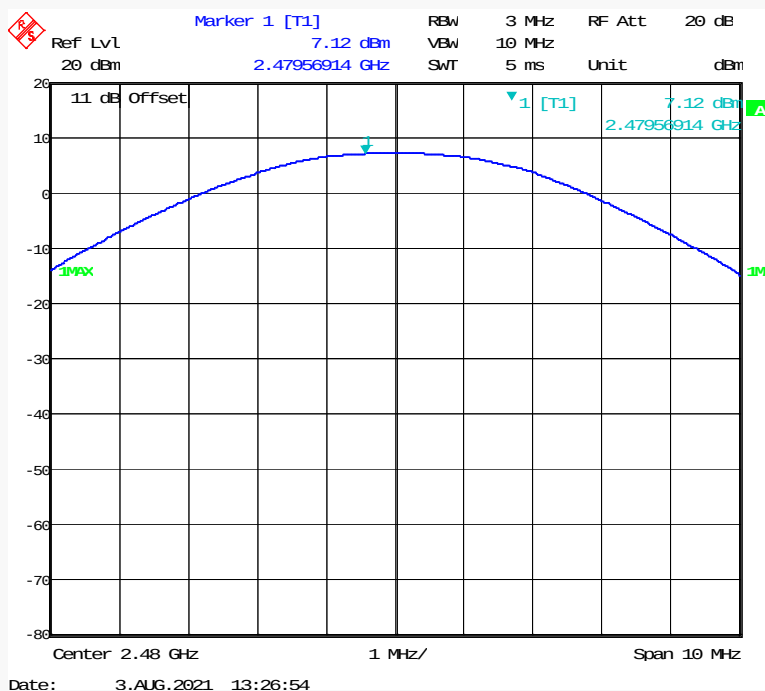
Test Result: Compliant.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1Mbps) Mode				
Low	2402	7.10	30	Pass
Middle	2440	7.12	30	Pass
High	2480	6.99	30	Pass
BLE (2Mbps) Mode				
Low	2402	7.26	30	Pass
Middle	2440	7.26	30	Pass
High	2480	7.12	30	Pass

BLE(1Mbps) Mode Low Channel**BLE(1Mbps) Mode Middle Channel**

BLE(1Mbps) Mode High Channel**BLE(2Mbps) Mode Low Channel**

BLE(2Mbps) Mode Middle Channel**BLE(2Mbps) Mode High Channel**

FCC §15.247(d) – BAND EDGE

Applicable Standard

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

Test Procedure

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

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

Test Data

Environmental Conditions

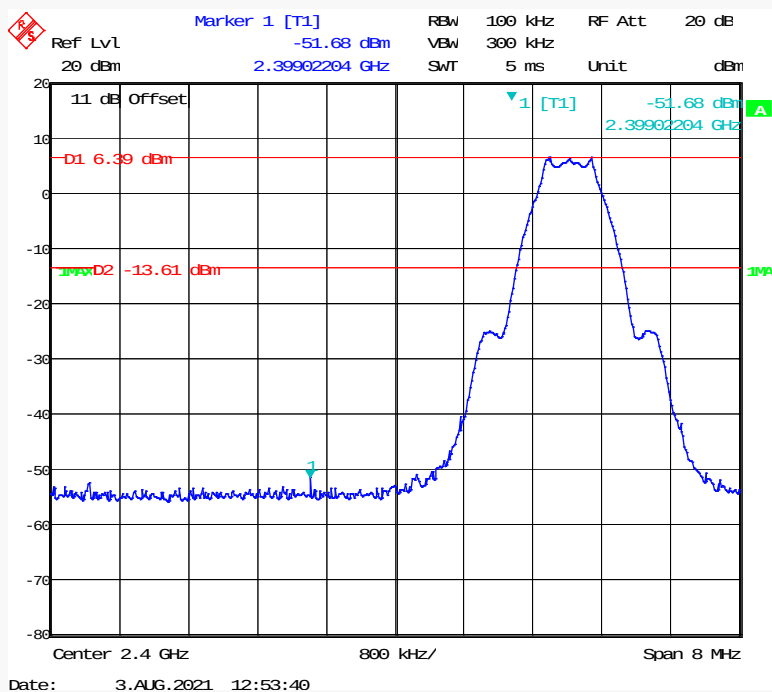
Temperature:	24.6 °C
Relative Humidity:	49 %
ATM Pressure:	101.2 kPa

The testing was performed by Tyrone Wang on 2021-08-03.

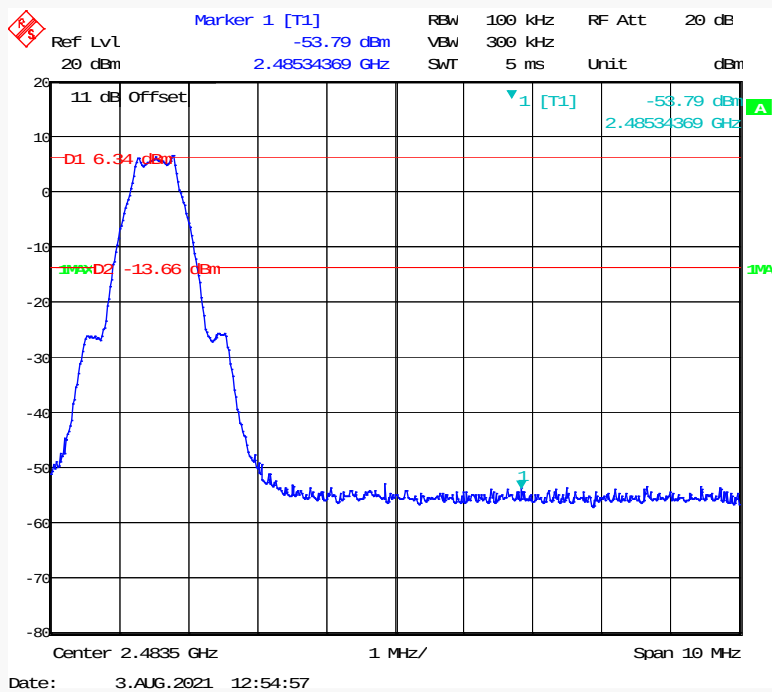
Test Result: Compliant.

EUT operation mode: Transmitting

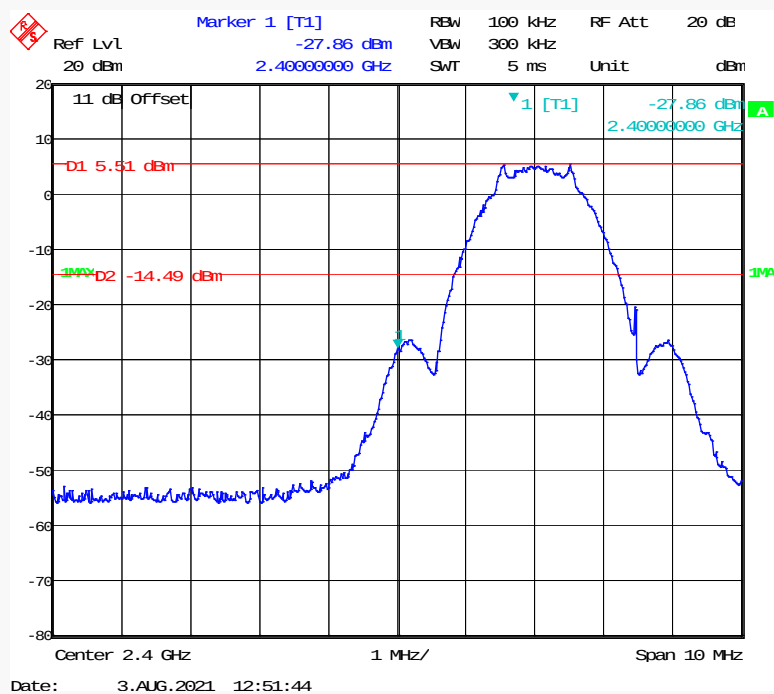
BLE (1Mbps) Mode Left Side



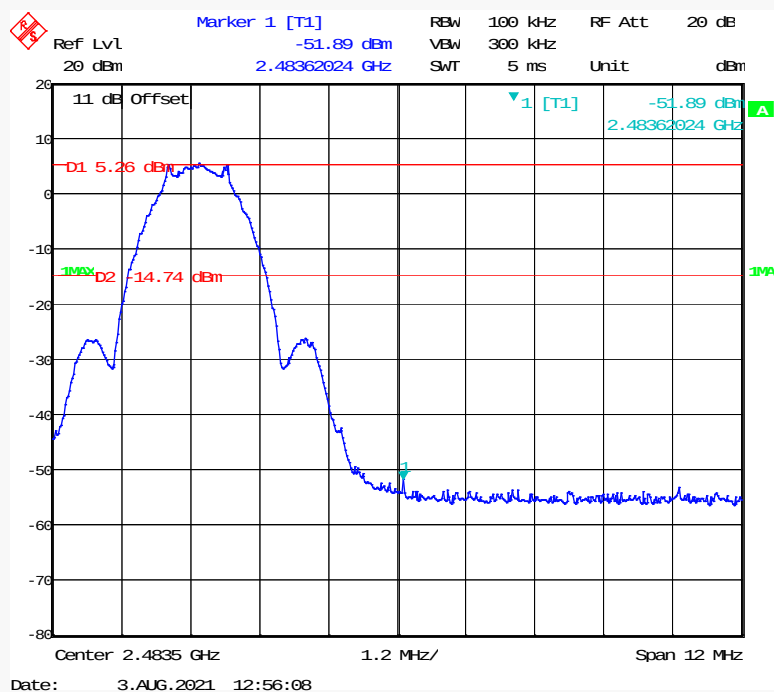
BLE (1Mbps) Mode Right Side



BLE(2Mbps) Mode Left Side



BLE(2Mbps) Mode Right Side



FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

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

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

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

Test Data

Environmental Conditions

Temperature:	24.6 °C
Relative Humidity:	49 %
ATM Pressure:	101.1 kPa

The testing was performed by Tyrone Wang on 2021-08-03.

Test Result: Compliant.

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE (1Mbps) mode			
Low	2402	-2.62	≤ 8
Middle	2440	-2.56	≤ 8
High	2480	-2.69	≤ 8
BLE (2Mbps) mode			
Low	2402	-5.91	≤ 8
Middle	2440	-6.23	≤ 8
High	2480	-6.20	≤ 8

Ref Lvl 11 dB Offset 20 dBm

Marker 1 [T1] -2.62 dBm 2.40206818 GHz

RBW 3 kHz VSWR 10 kHz SWT 300 ms RF Att 20 dB Unit dBm

Center 2.402 GHz 108 kHz/ Span 1.08 MHz

Date: 3.AUG.2021 13:12:12

Ref Lvl 20 dBm

Marker 1 [T1] -2.56 dBm 2.44004260 GHz

RBW 3 kHz VBW 10 kHz

RF Att 20 dB

SWT 310 ms Unit dBm

11 dB Offset

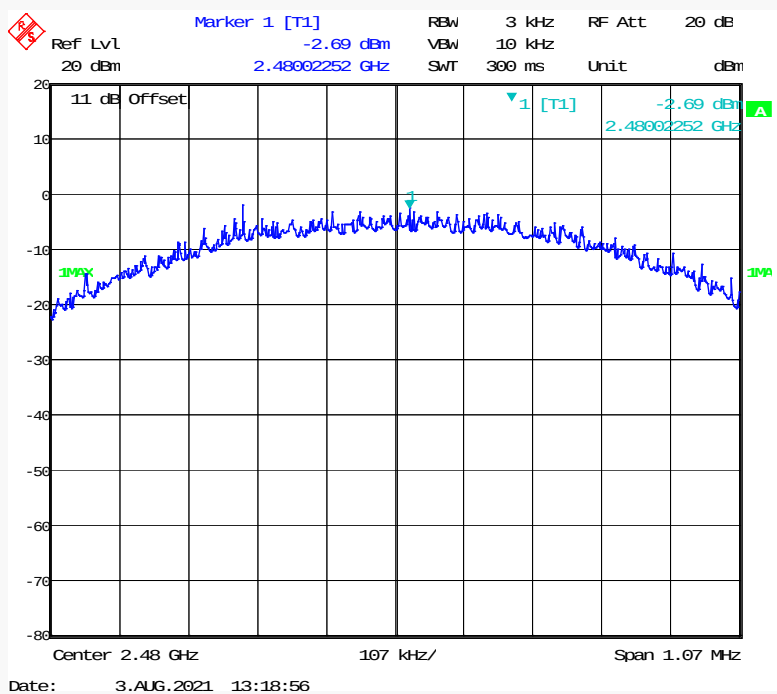
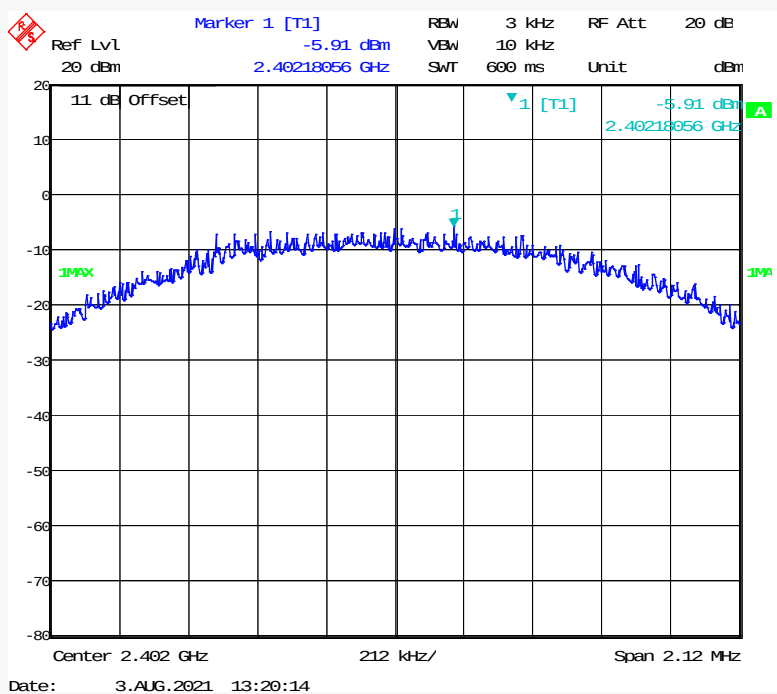
1 [T1] -2.56 dBm 2.44004260 GHz

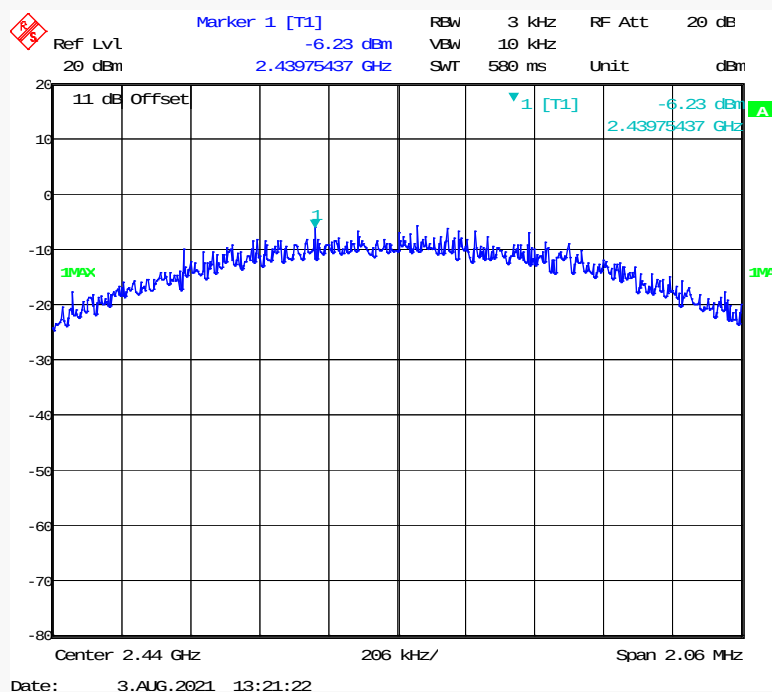
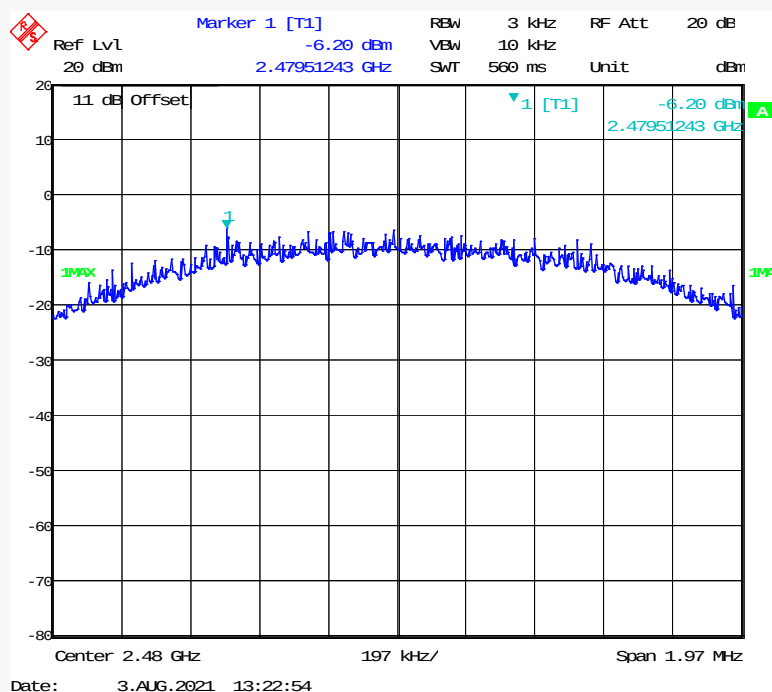
1MAX

1MAX

Center 2.44 GHz 169 kHz/ Span 1.09 GHz

Date: 3.AUG.2021 13:16:06

BLE(1Mbps) Mode High Channel**BLE(2Mbps) Mode Low Channel**

BLE(2Mbps) Mode Middle Channel**BLE(2Mbps) Mode High Channel**

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 *******