

TEST REPORT

Report No.: SHE22070069-02AE

Date: 2022-08-31

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Applicant : ShangHai Ehong Technology Co.,Ltd.
Address of Applicant : Room 501, No.485 Xingmei Road,
Minhang district,Shanghai, China

Product Name : AIOT Module
Model No. : EH-MW24
Brand Name : Ehong
Sample No. : E22070069-01#12
E22070069-01#01

FCC ID : 2ACCRMW24

Standards : FCC CFR47 Part 15, Subpart C

Date of Receipt : 2022-07-26
Date of Test : 2022-08-05~ 2022-08-30
Date of Issue : 2022-08-31

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



(Erik Yang)

Reviewed by:



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Approved by:



(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	ShangHai Ehong Technology Co.,Ltd.
Address	Room 501, No.485 Xingmei Road, Minhang district,Shanghai, China
Contact Person	Rik Tang
Telephone	02164769993
Email	rik.tang@ehonglink.com
Manufacturer Company Name	ShangHai Ehong Technology Co.,Ltd.
Address	Room 501, No.485 Xingmei Road, Minhang district,Shanghai, China
Factory Company Name	ShangHai Ehong Technology Co.,Ltd.
Address	Room 501, No.485 Xingmei Road, Minhang district,Shanghai, China

1.3 Details of EUT

Product Name	AIOT Module
Brand Name	Ehong
Test Model No.	EH-MW24
FCC ID	2ACCRMW24
Mode of Operation	Bluetooth Version 5.0
Frequency Range	2402MHz ~ 2480MHz
Number of Channels	40 (at intervals of 2 MHz)
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0.54dBi
Extreme Temperature Range	-10℃~ +85℃
Test Voltage	DC 3.3V By DC Power Supply
Hardware version	EH-MW24-V1.1
Software version	EH-MW24-C000-V1.0
Test SW Version	BL410_R;BL410_E
RF power setting in TEST SW	QRCT_Power level setting_Default

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Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2.402GHz	14	2.430GHz	28	2.458GHz
1	2.404GHz	15	2.432GHz	29	2.460GHz
2	2.406GHz	16	2.434GHz	30	2.462GHz
3	2.408GHz	17	2.436GHz	31	2.464GHz
4	2.410GHz	18	2.438GHz	32	2.466GHz
5	2.412GHz	19	2.440GHz	33	2.468GHz
6	2.414GHz	20	2.442GHz	34	2.470GHz
7	2.416GHz	21	2.444GHz	35	2.472GHz
8	2.418GHz	22	2.446GHz	36	2.474GHz
9	2.420GHz	23	2.448GHz	37	2.476GHz
10	2.422GHz	24	2.450GHz	38	2.478GHz
11	2.424GHz	25	2.452GHz	39	2.480GHz
12	2.426GHz	26	2.454GHz		
13	2.428GHz	27	2.456GHz		

1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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1.5 Test Summary

Test Item	FCC Rules	Result
Antenna Requirement	FCC Part 15.247(b)(4), Part 15.203	PASS
Maximum peak conducted output power	FCC Part 15.247(b)(3)	PASS
6dB Bandwidth	FCC Part 15.247(a)(2)	PASS
Maximum conducted output power spectral density	FCC Part 15.247(e)	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	N/A ^{note}

Note(s): N/A means not applicable. The EUT is powered by DC Power Supply (DC 3.3V). Conducted Emission on AC Mains Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2022-08-02	2023-08-01
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2022-06-10	2023-06-09
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2022-06-10	2023-06-09
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08	2023-06-07
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-08	2023-06-07
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2022-06-10	2023-06-09
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2022-06-10	2023-06-09
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2022-06-10	2023-06-09
DC Power Supply	ITECH	IT6512A	N/A	2022-06-07	2024-06-06
Test Software	BL	BL410_E	N/A	N/A	N/A
Test Software	BL	BL410_R	N/A		N/A

2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Parameter		Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	< 1GHz	± 5.00 dB
	> 1GHz	± 4.88 dB
Occupied Channel Bandwidth		± 5 %

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

Channel	Frequency
The lowest channel(CH00)	2402MHz
The middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz

The basic operation modes are:

- A. On
 - 1. BLE mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
 - 2. Normal working with Bluetooth on
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	HP	HP ZHAN 66 Pro G1	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	Qualcomm	QRCT Version 4.0.00132.0

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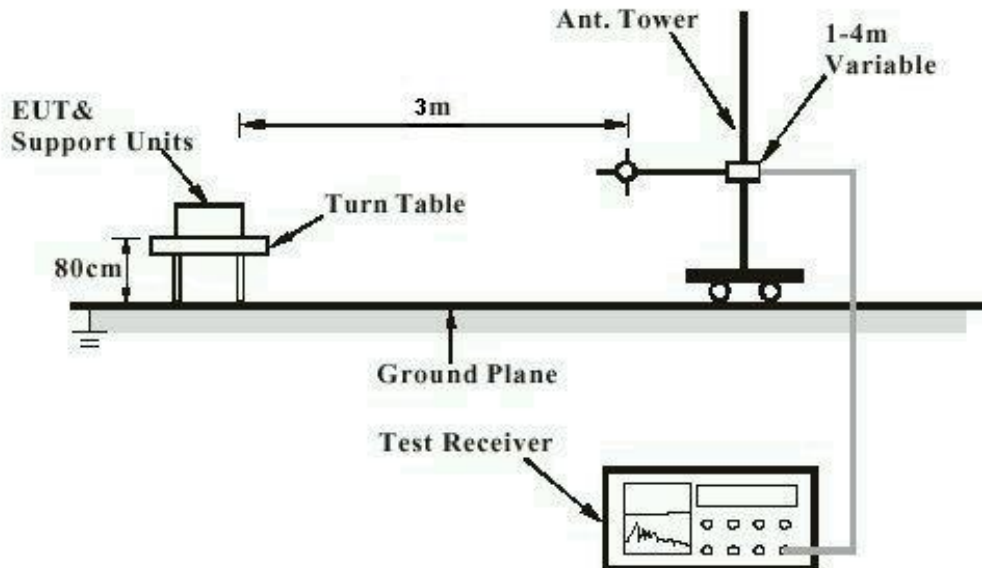
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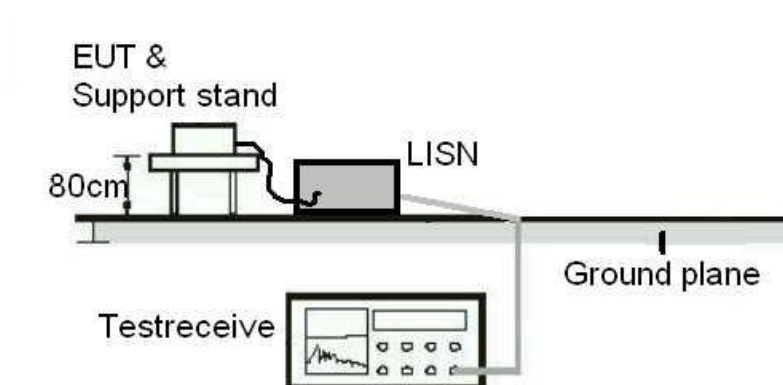
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Configuration for Conduction Test



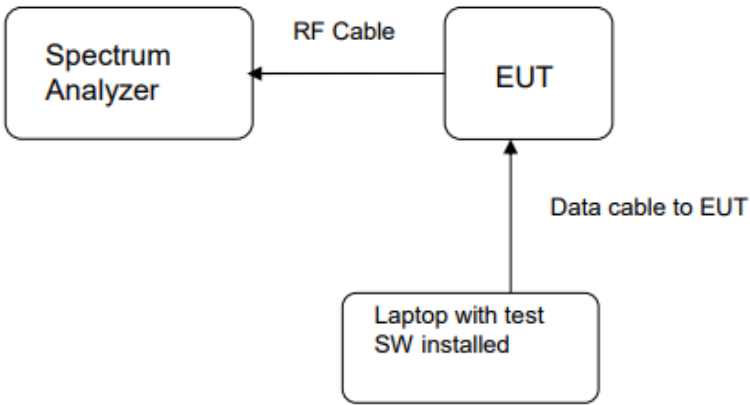
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Diagram of Measurement Equipment Configuration for Transmitter Test



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: FCC Part 15.247(b)(4), Part 15.203
Requirement	: The use of approved antennas only with directional gains that do not exceed 6dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 0.54dBi. The antenna is pcb antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Maximum peak conducted output power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)
Requirement : ANSI C63.10-2013 clause 11.9.1.1,
KDB 558074 clause 8.3.1.1
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 24.9°C
Relative humidity : 56%

Table 1: Maximum peak conducted output power

Test Mode	Test Channel (MHz)	Maximum peak conducted output power		Limit (W)
		(dBm)	(mW)	
BLE-1M	2402	0.59	1.15	< 1
	2440	0.37	1.09	
	2480	0.14	1.03	
BLE-2M	2402	0.57	1.14	
	2440	0.33	1.08	
	2480	0.09	1.02	

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Figure 1: Peak Output Power, 2402MHz BLE-1M

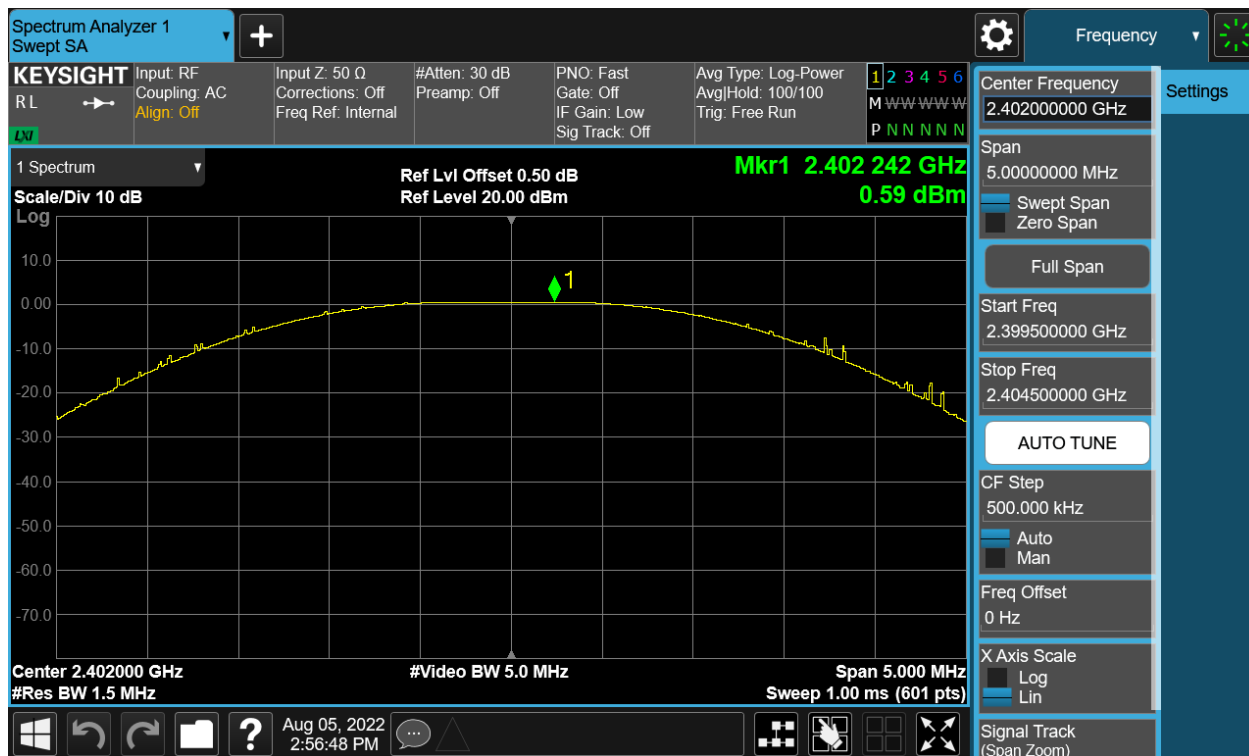
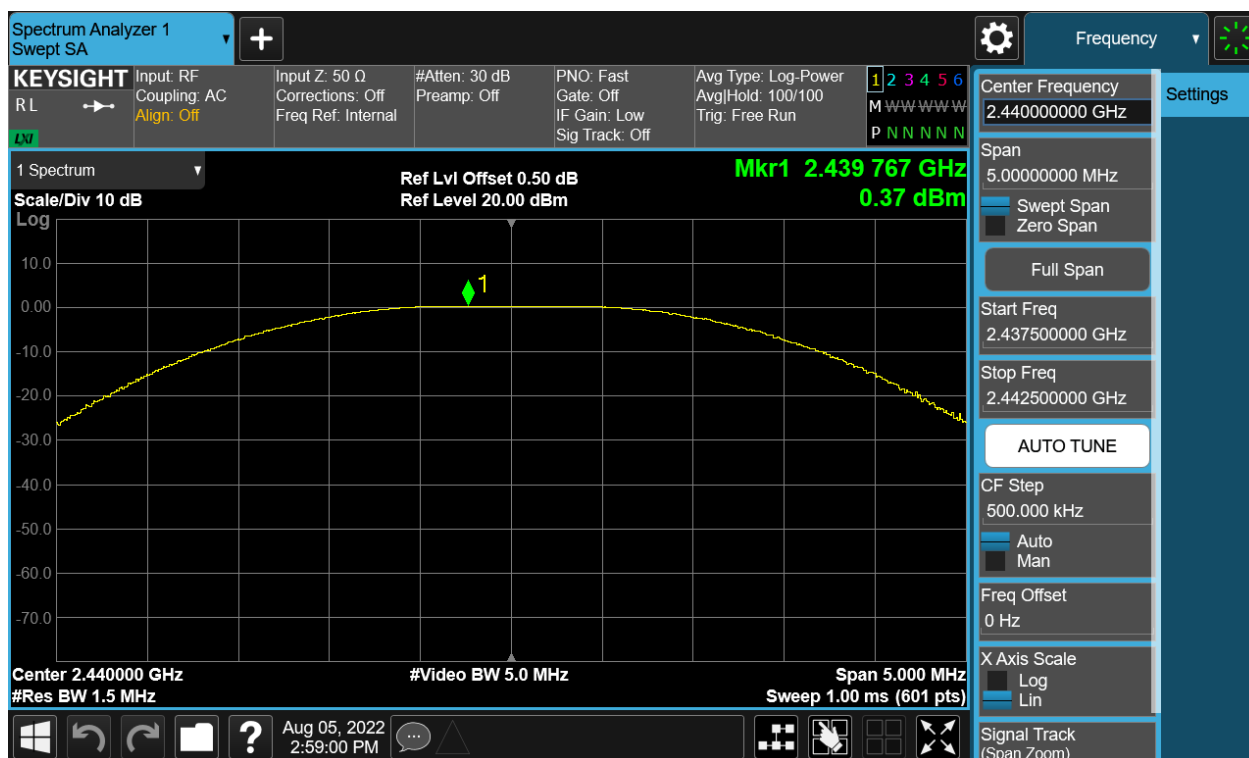


Figure 2: Peak Output Power, 2440MHz BLE-1M



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Figure 3: Peak Output Power, 2480MHz BLE-1M



Figure 4: Peak Output Power, 2402MHz BLE-2M



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Figure 5: Peak Output Power, 2440MHz BLE-2M



Figure 6: Peak Output Power, 2480MHz BLE-2M



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4.1.3 6dB Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2)
Requirement : ANSI C63.10-2013 clause 11.8.1,
KDB 558074 clause 8.2
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 24.9°C
Relative humidity : 56%

Table 2: 6dB Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	Limit
BLE-1M	2402	0.6442	>0.5 MHz
	2440	0.7118	
	2480	0.6846	
BLE-2M	2402	1.0320	
	2440	1.0940	
	2480	1.1330	

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Figure 7: 6dB Bandwidth, 2402MHz BLE-1M



Figure 8: 6dB Bandwidth, 2440MHz BLE-1M



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Figure 9: 6dB Bandwidth, 2480MHz BLE-1M

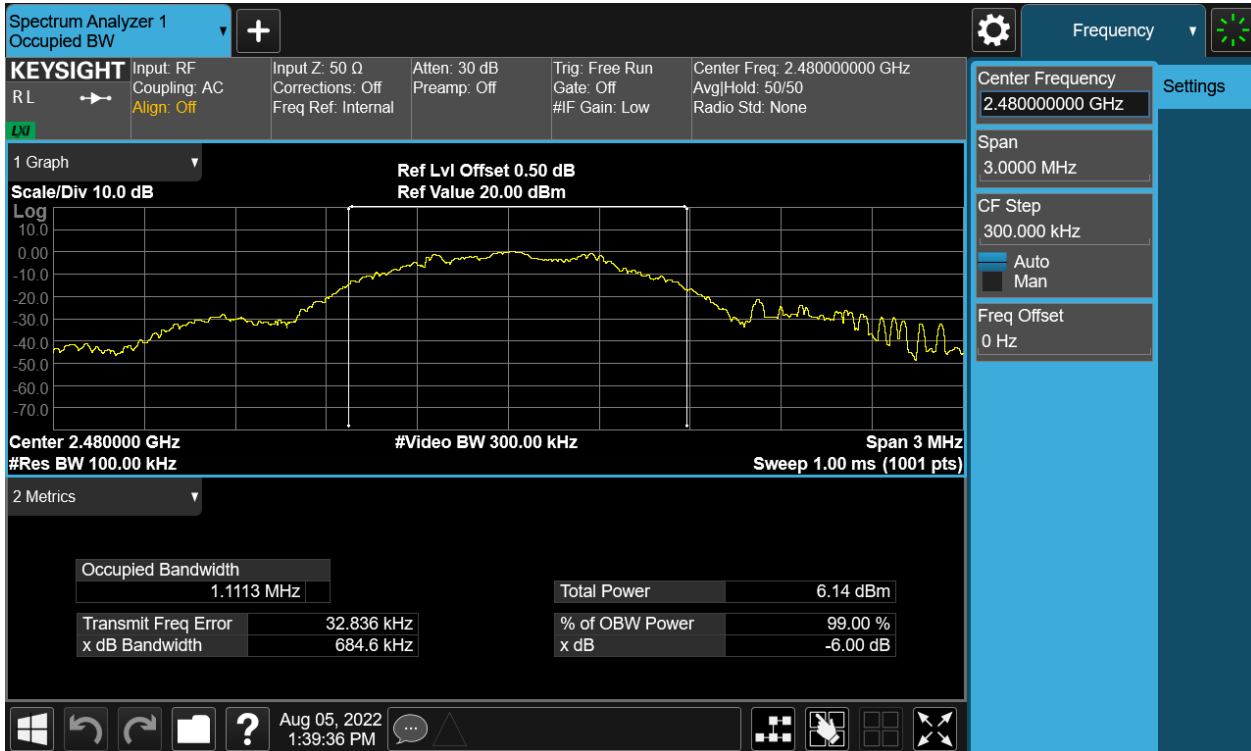


Figure 10: 6dB Bandwidth, 2402MHz BLE-2M



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Figure 11: 6dB Bandwidth, 2440MHz BLE-2M

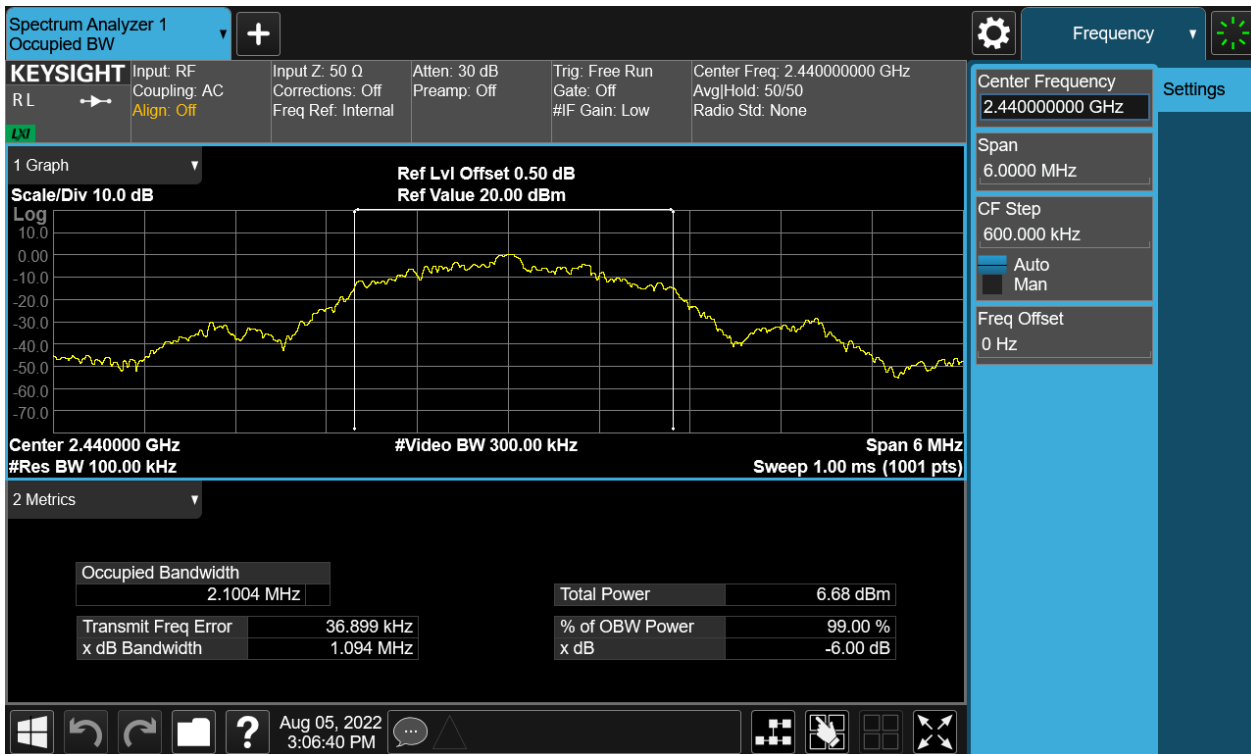


Figure 12: 6dB Bandwidth, 2480MHz BLE-2M



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4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e)

Requirement : ANSI C63.10-2013 clause 11.10.2,
KDB 558074 clause 8.4

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 24.9°C

Relative humidity : 56%

Table 3: Method PKPSD

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE-1M	2402	-14.48	8
	2440	-13.02	
	2480	-15.27	
BLE-2M	2402	-15.15	
	2440	-13.64	
	2480	-15.60	

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Figure 13: Power Spectral Density, 2402MHz BLE-1M

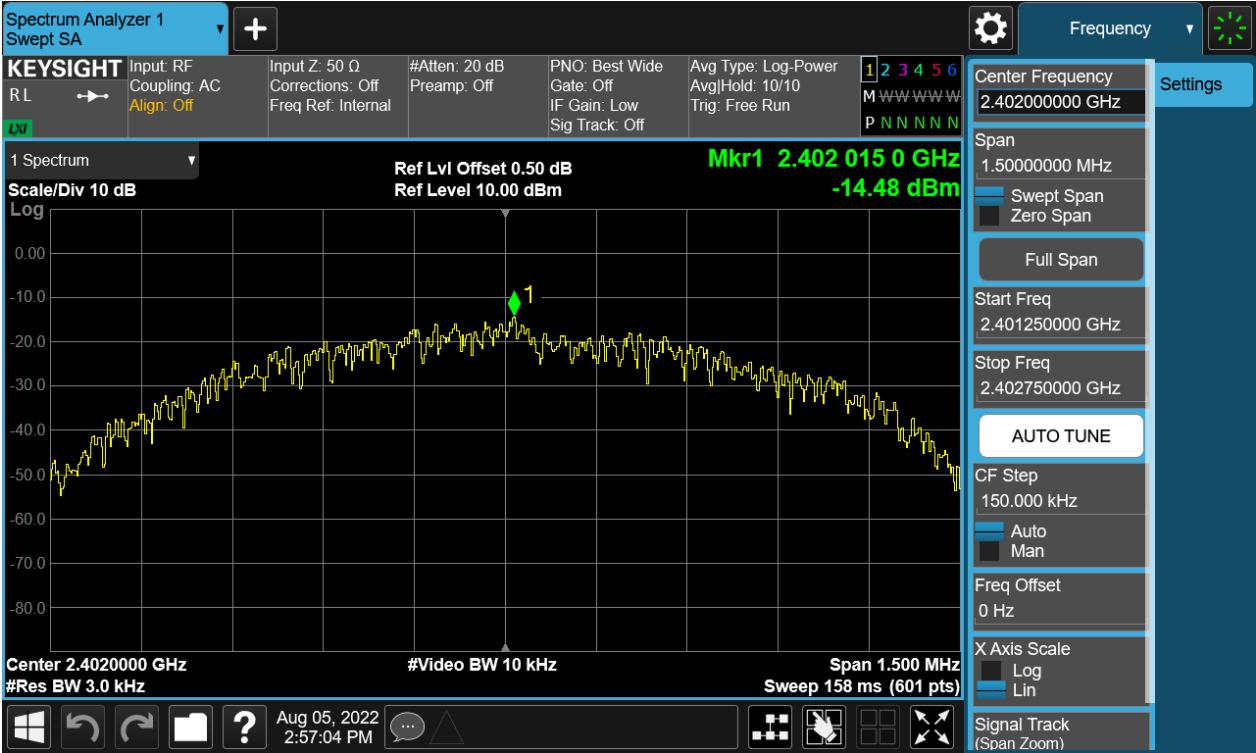
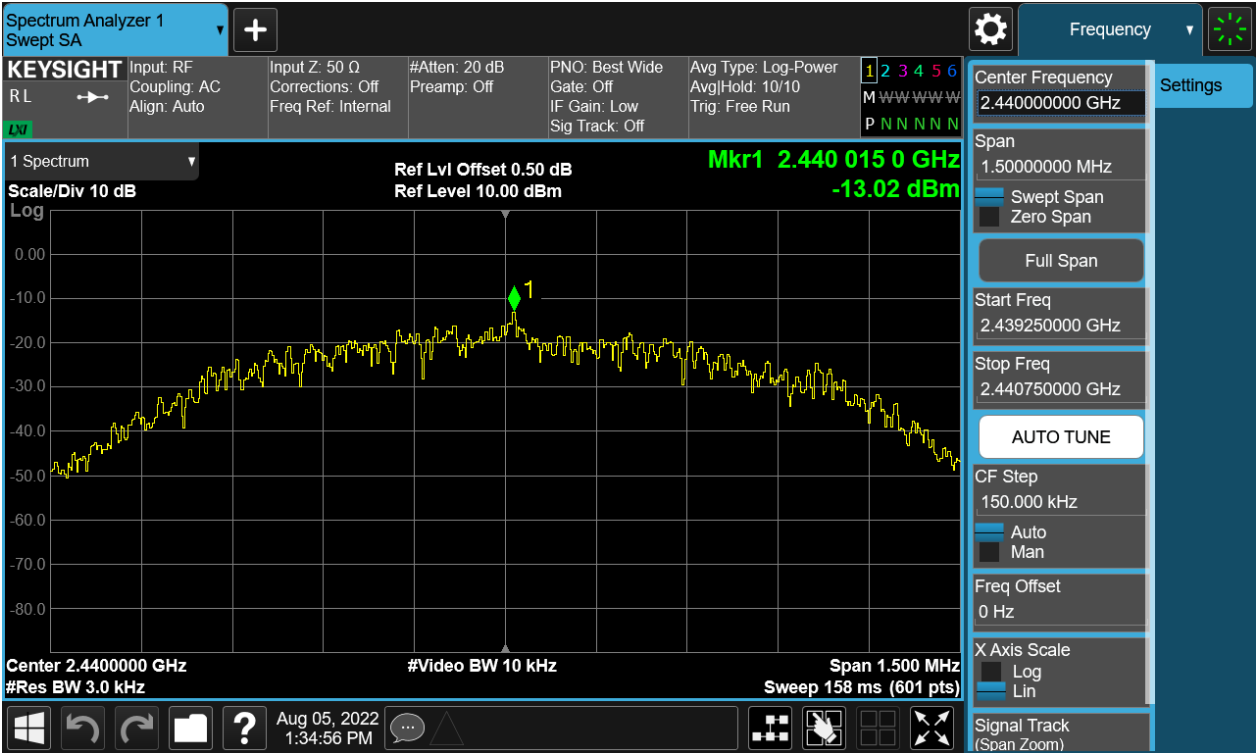


Figure 14: Power Spectral Density, 2440MHz BLE-1M



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Figure 15: Power Spectral Density, 2480MHz BLE-1M

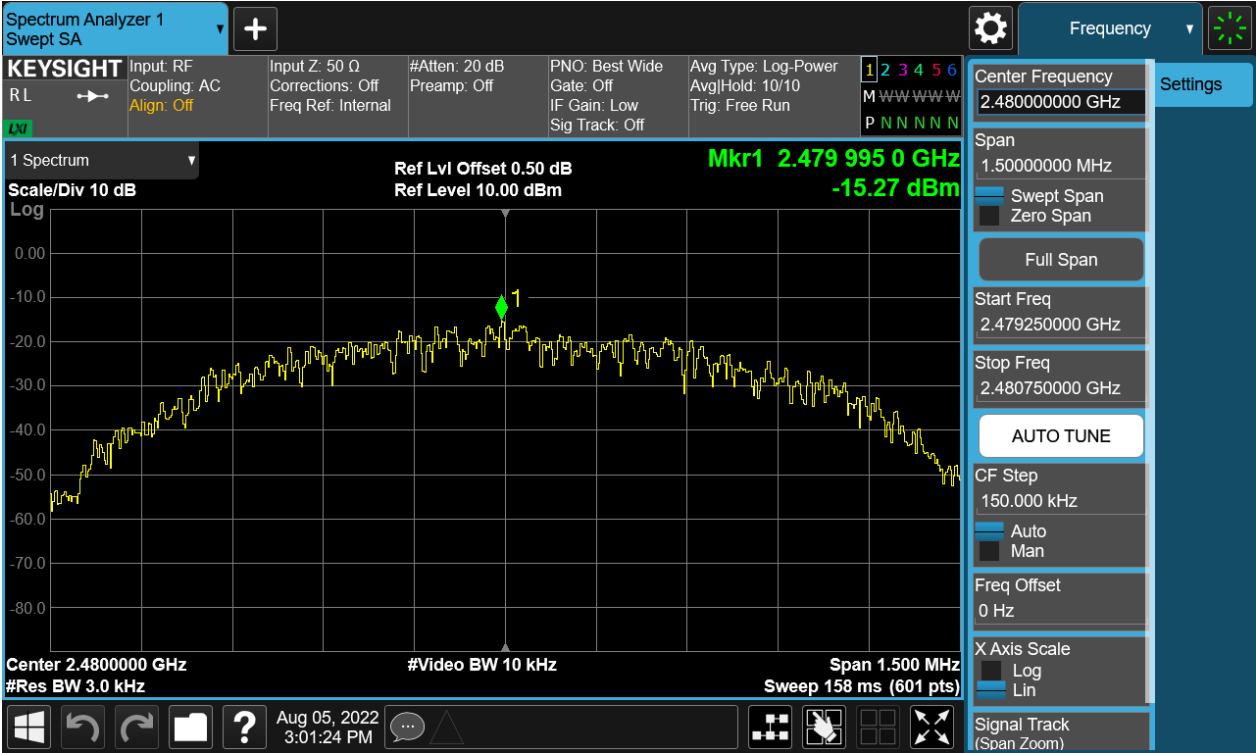
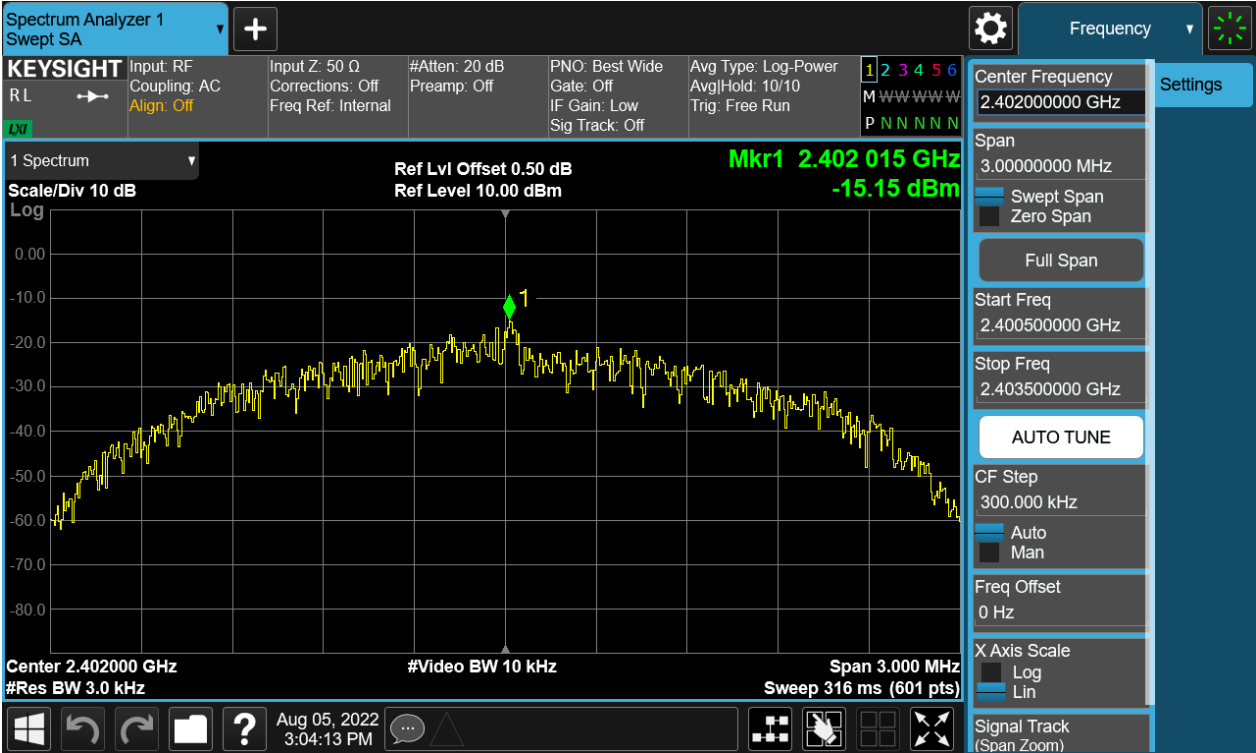


Figure 16: Power Spectral Density, 2402MHz BLE-2M



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Figure 17: Power Spectral Density, 2440MHz BLE-2M

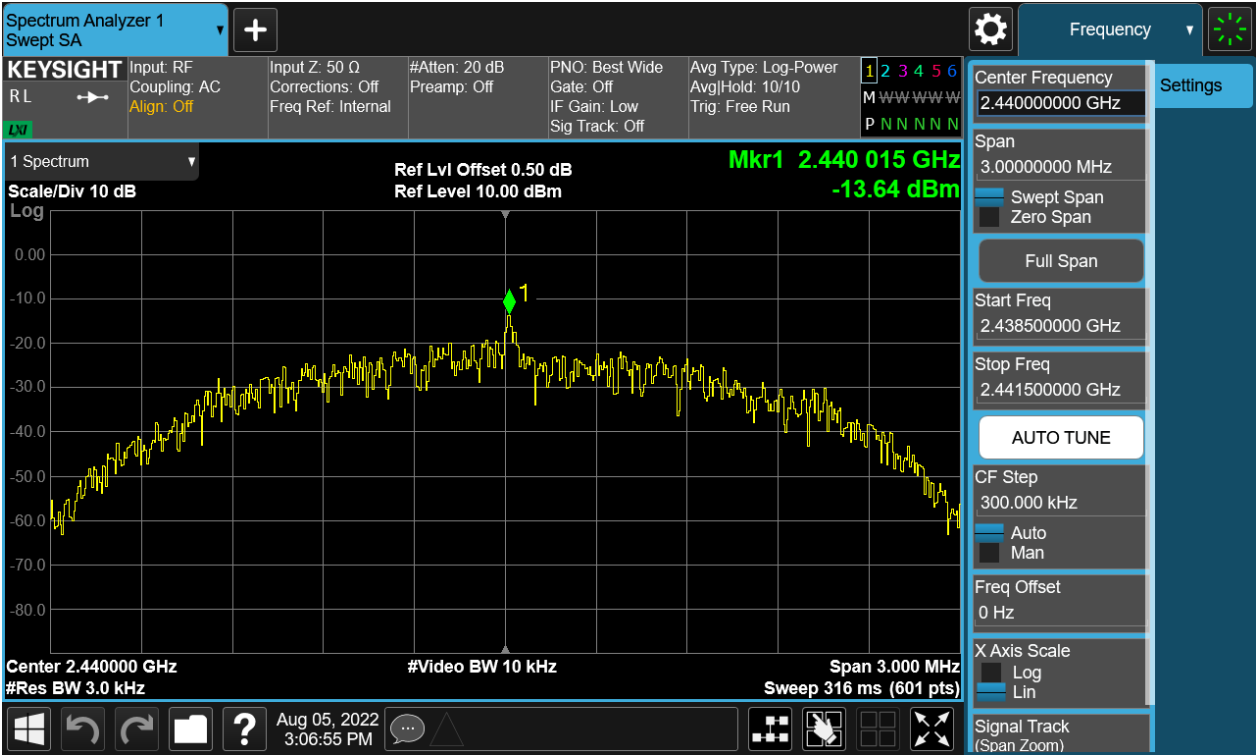
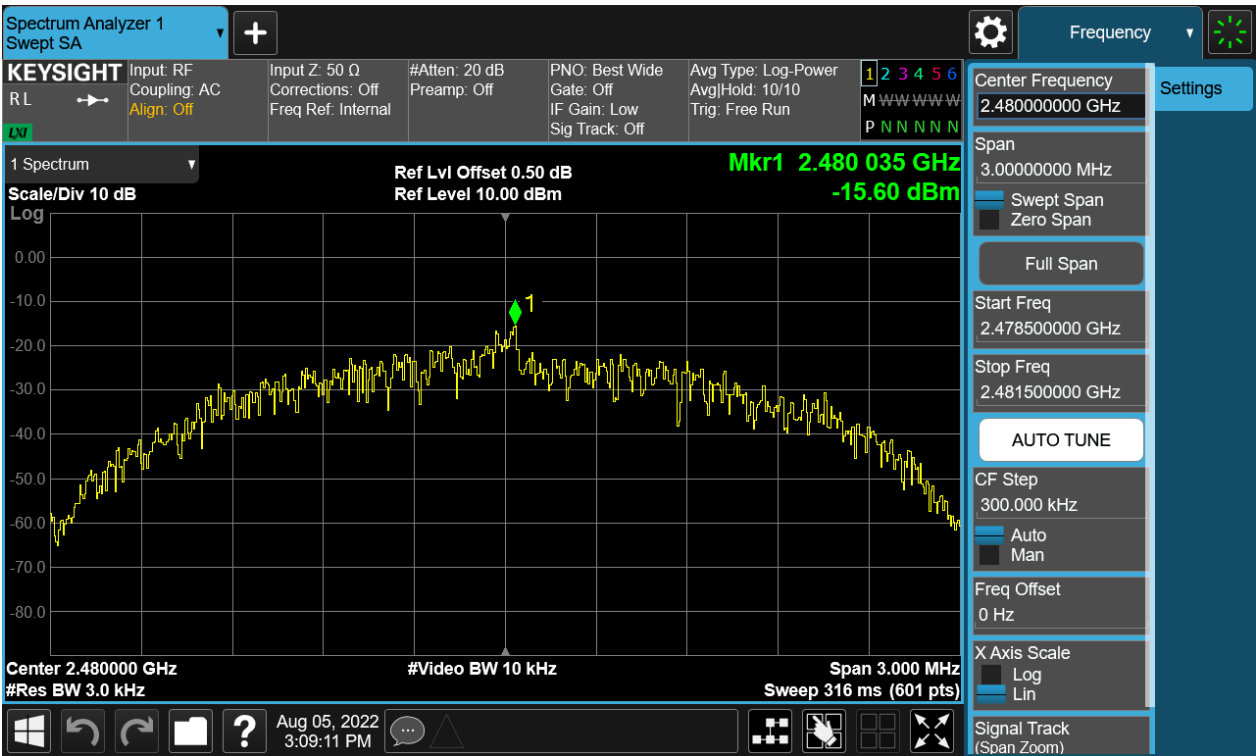


Figure 18: Power Spectral Density, 2480MHz BLE-2M



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d)
Requirement	: ANSI C63.10-2013 clause 11.11, KDB 558074 clause 8.5
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	: A.1.a
Ambient temperature	: 24.9°C
Relative humidity	: 56%

For details refer to following test plot.

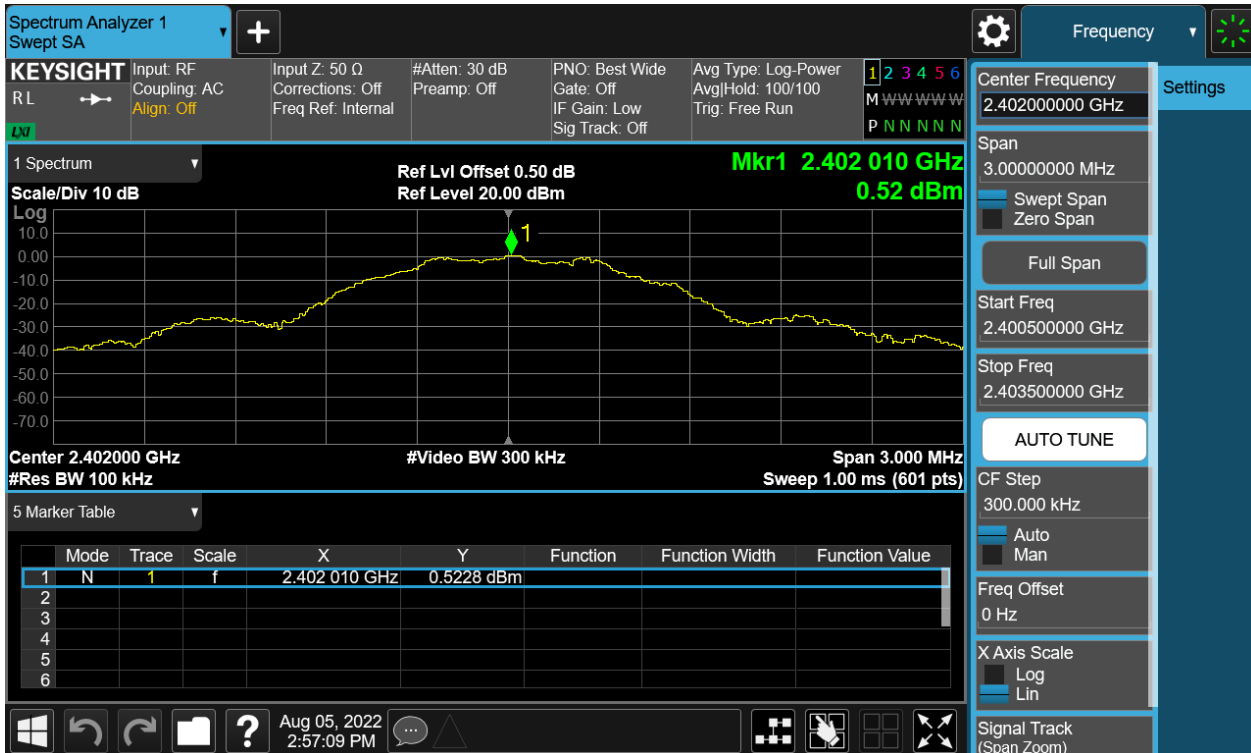
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Figure 19: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE-1M Carrier Level



Band Edge



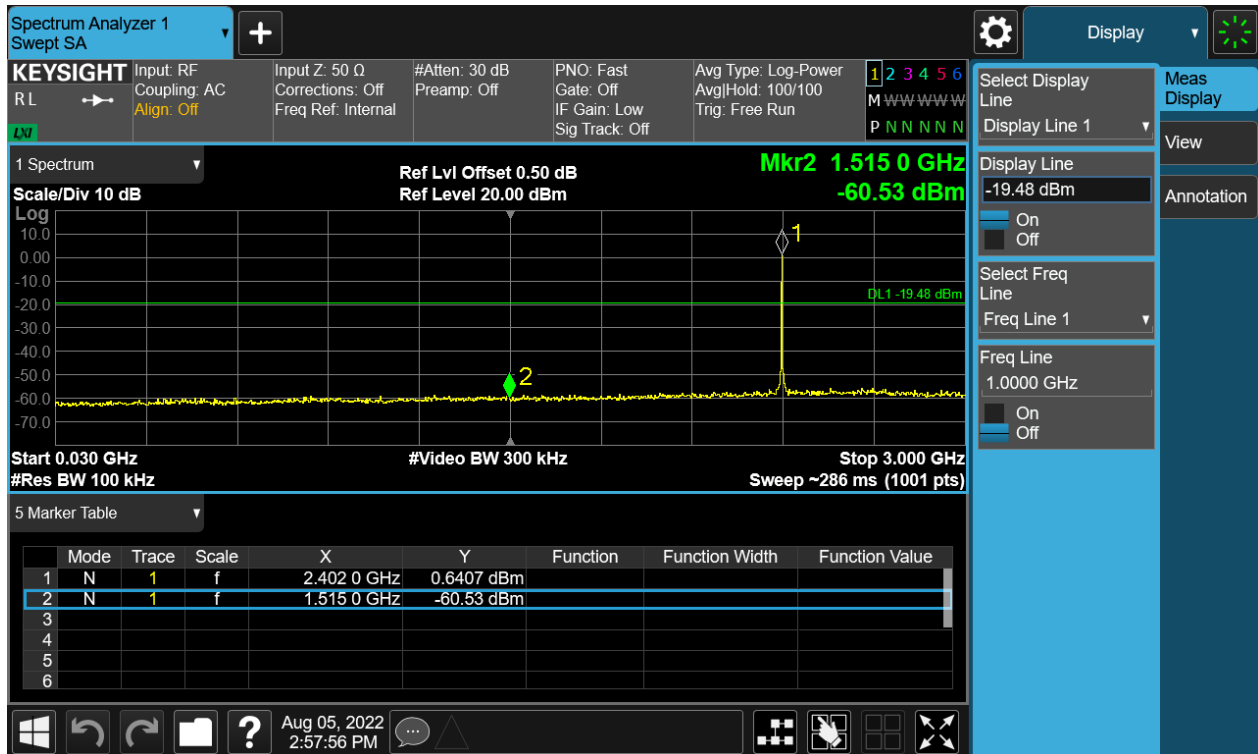
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Conducted spurious emissions 30MHz-25GHz



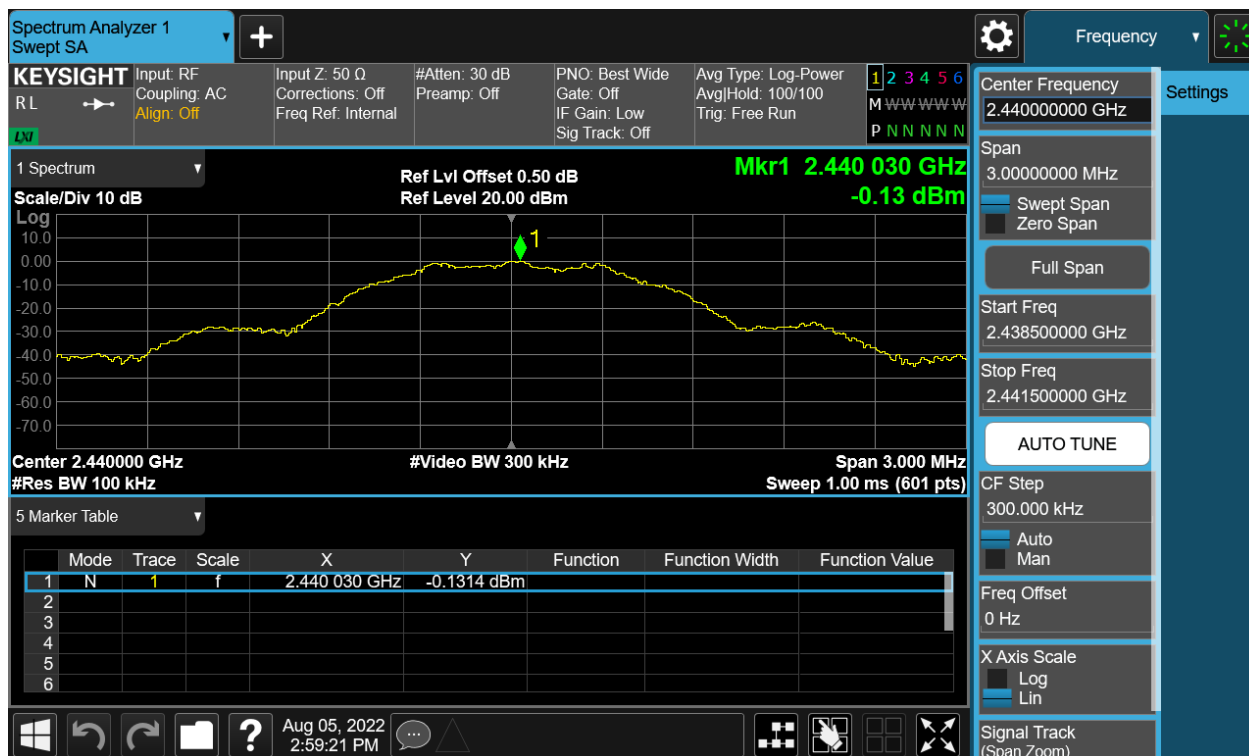
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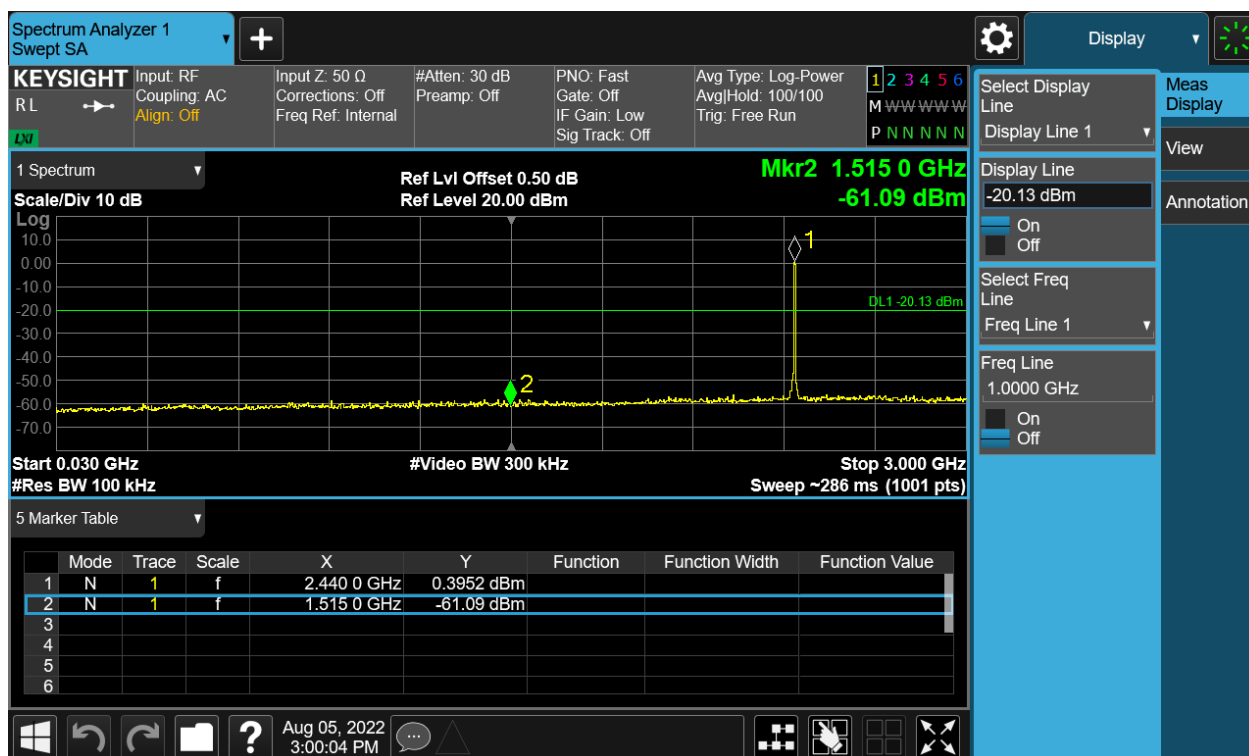
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Figure 20: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE-1M Carrier Level



Conducted spurious emissions 30MHz-25GHz



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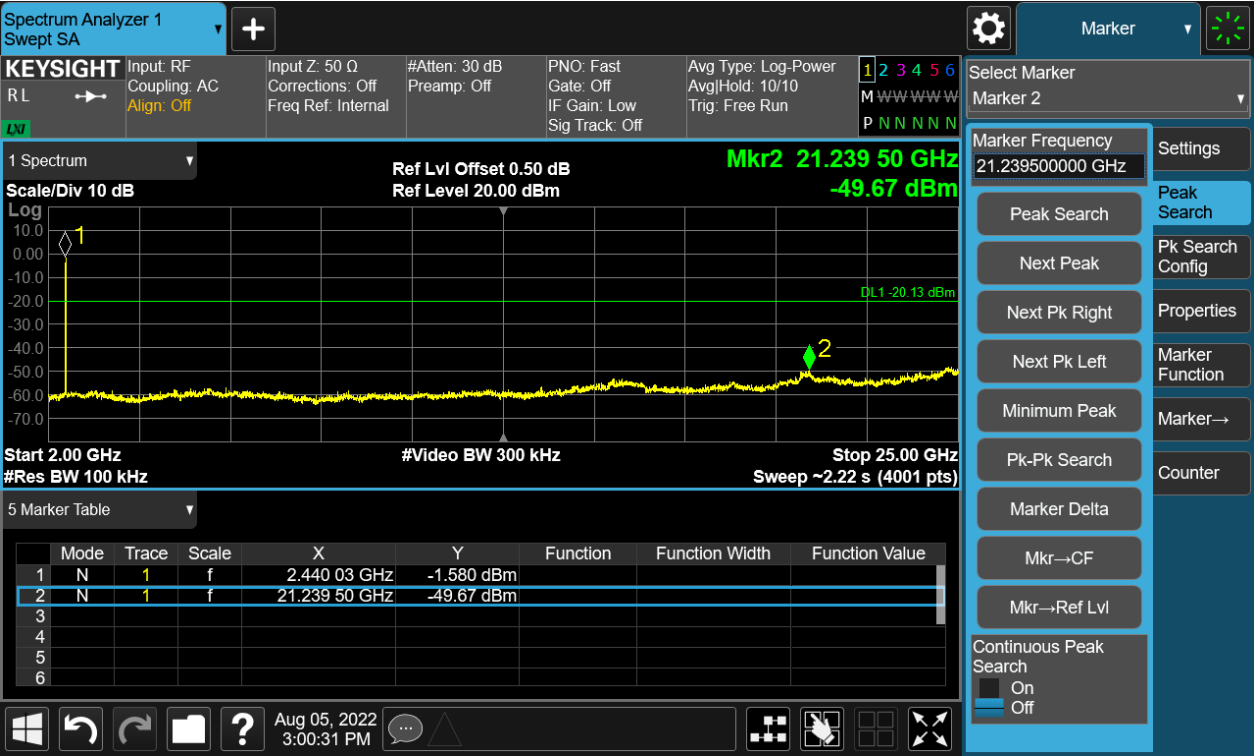


Figure 21: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE-1M Carrier Level



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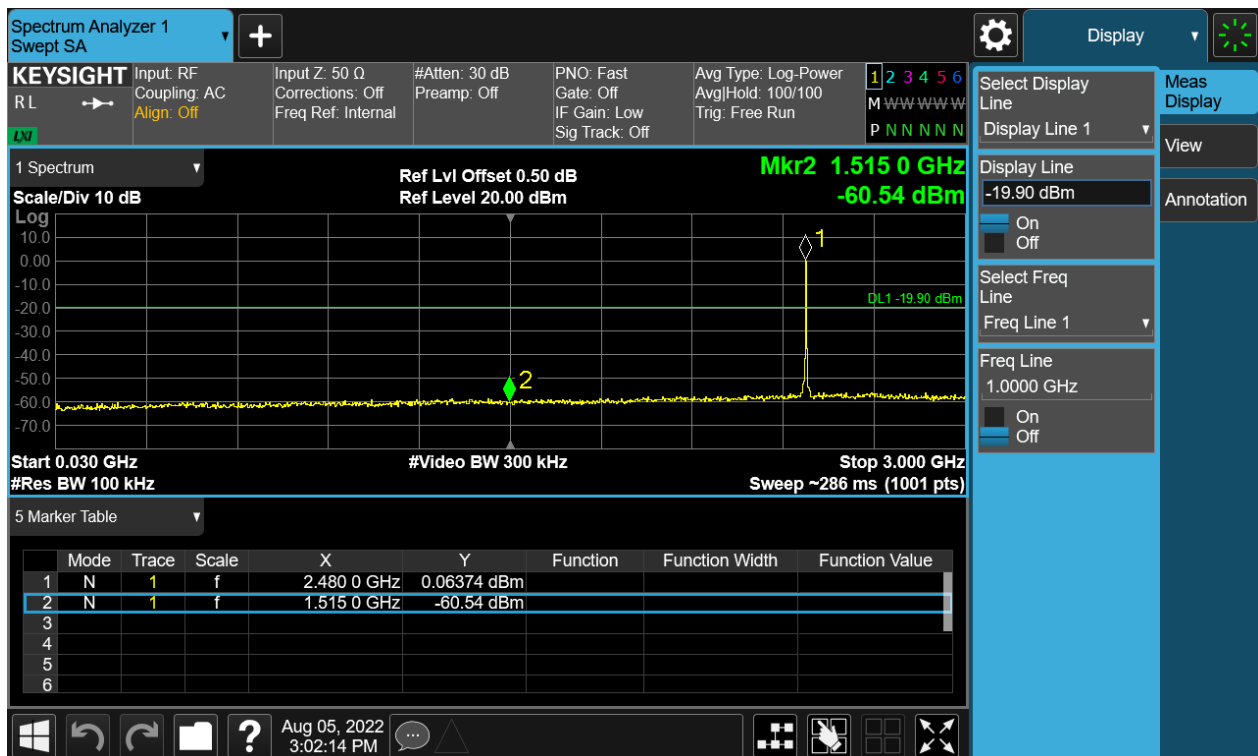
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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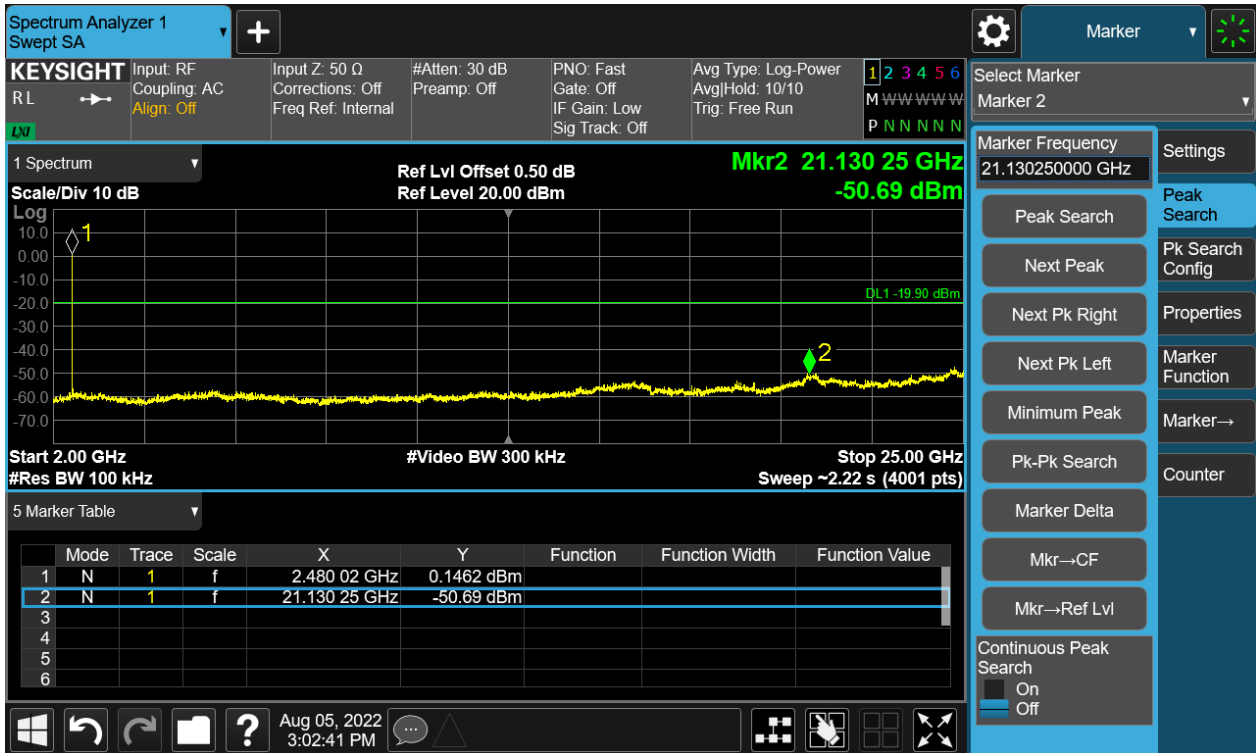
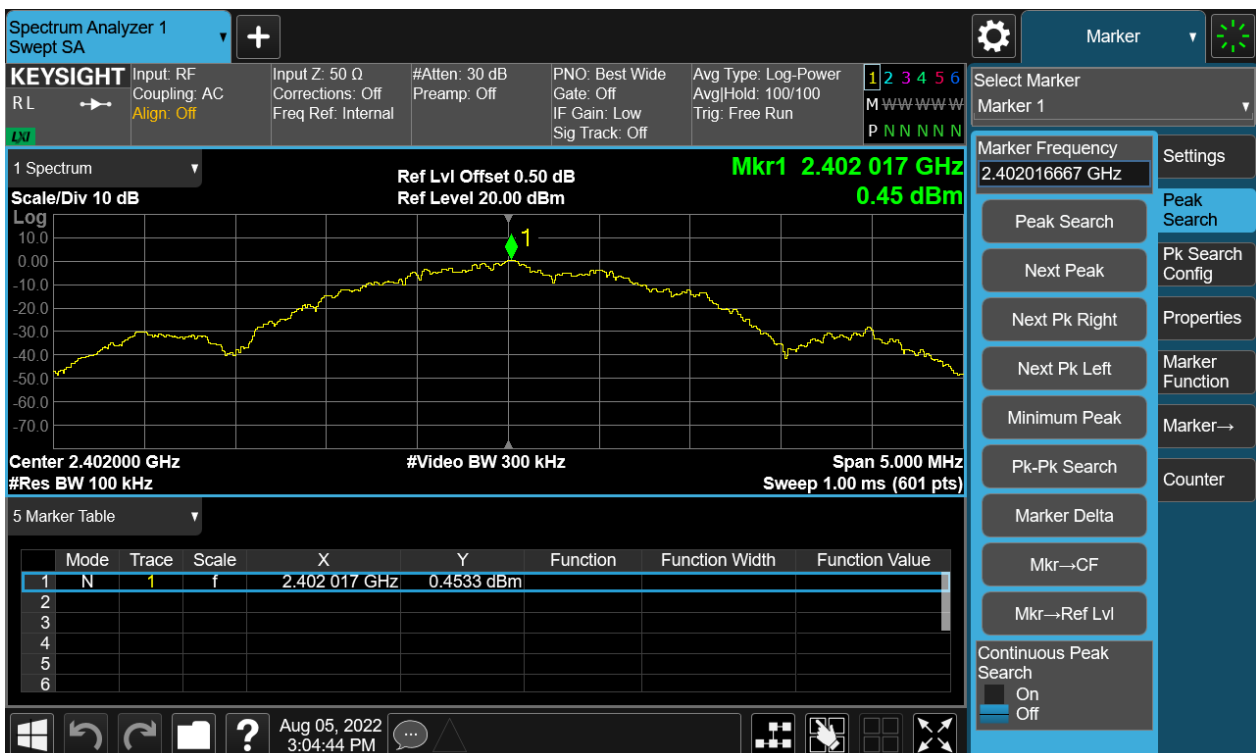


Figure 22: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE-2M Carrier Level



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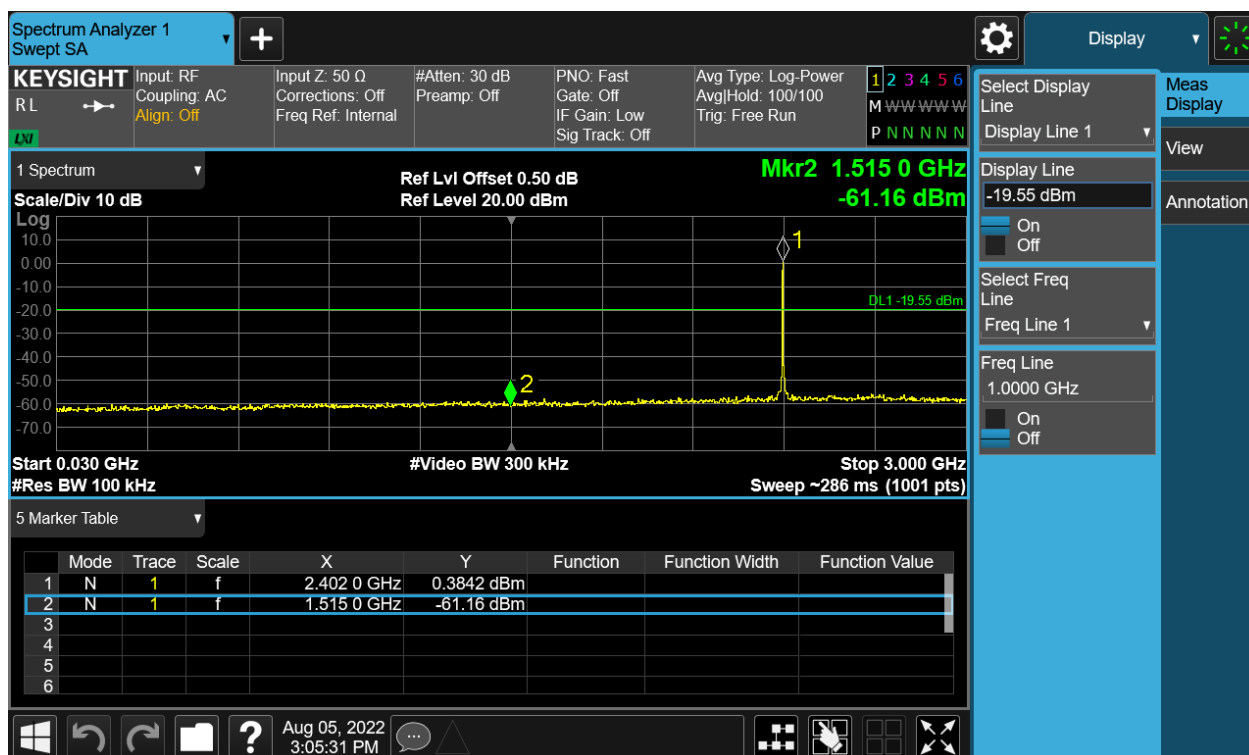
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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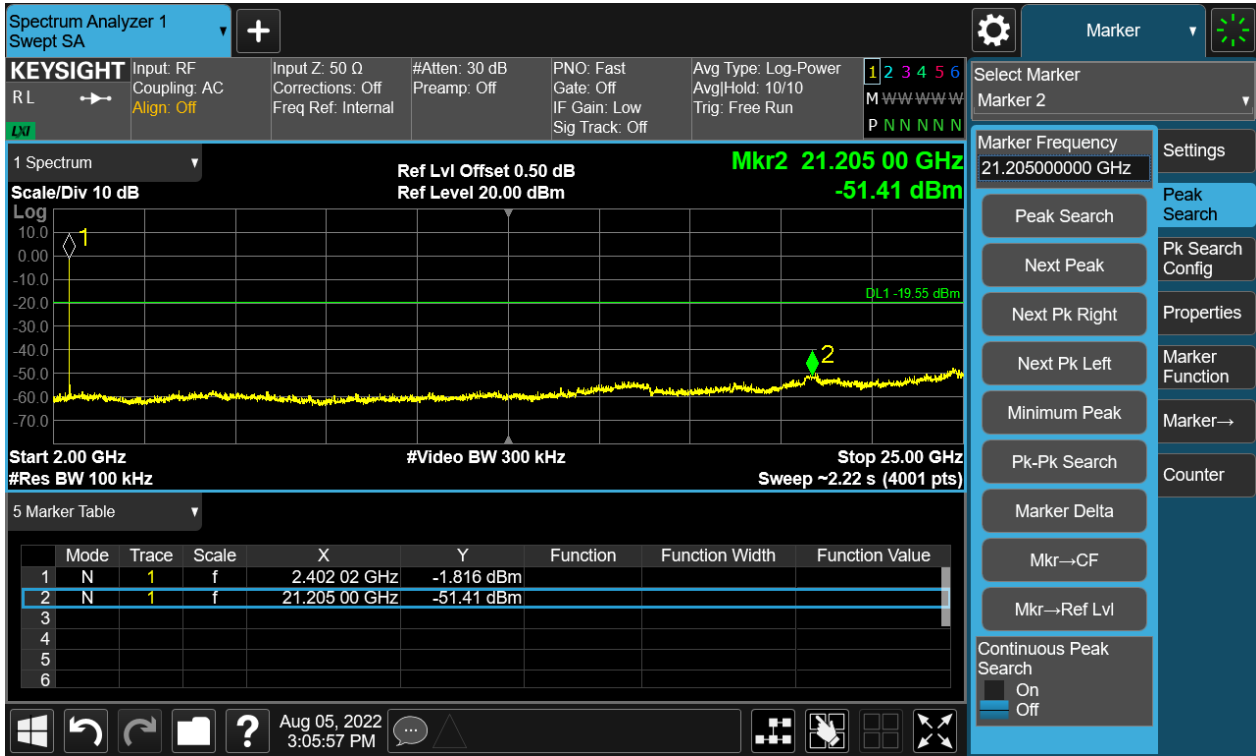


Figure 23: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE-2M Carrier Level



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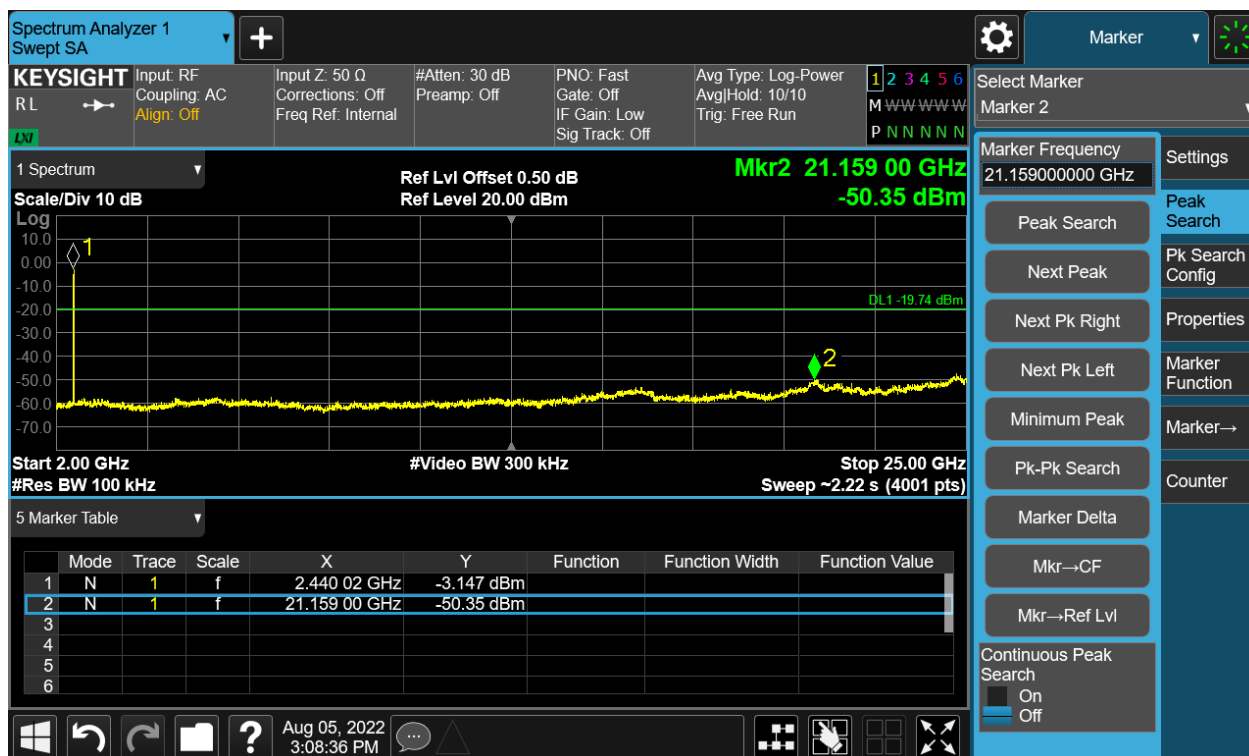
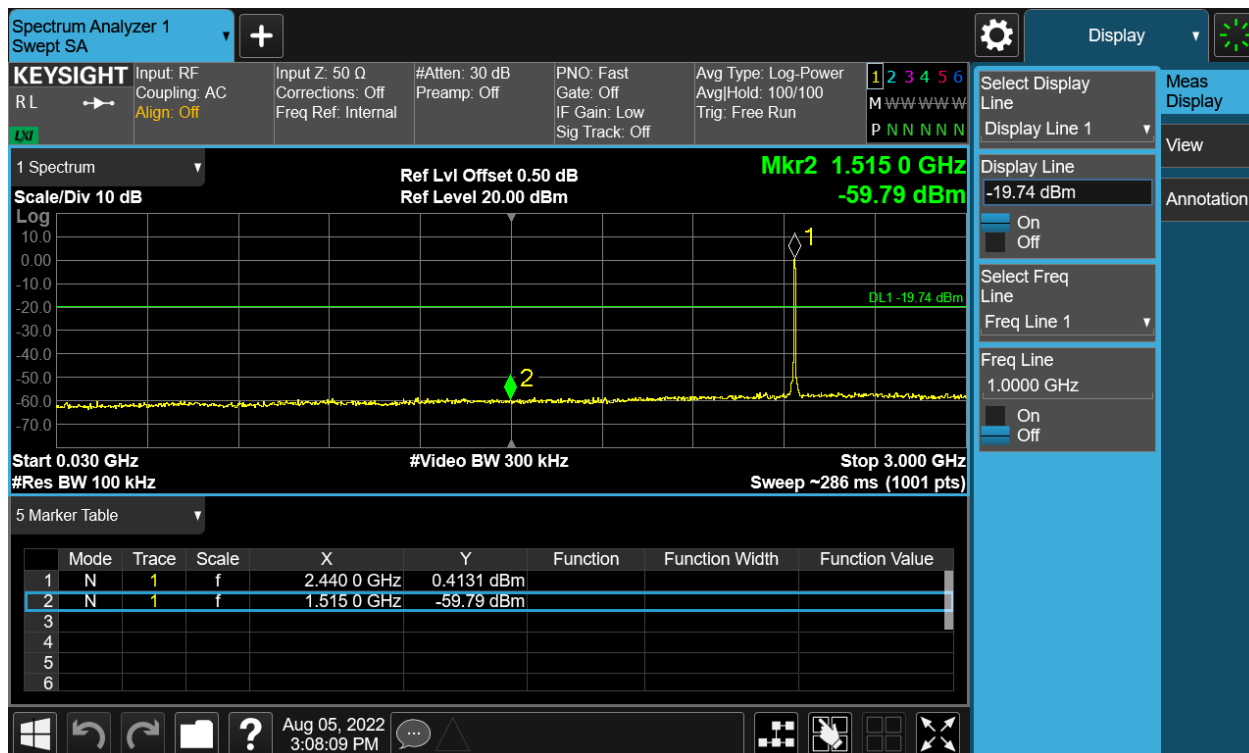
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Conducted spurious emissions 30MHz-25GHz



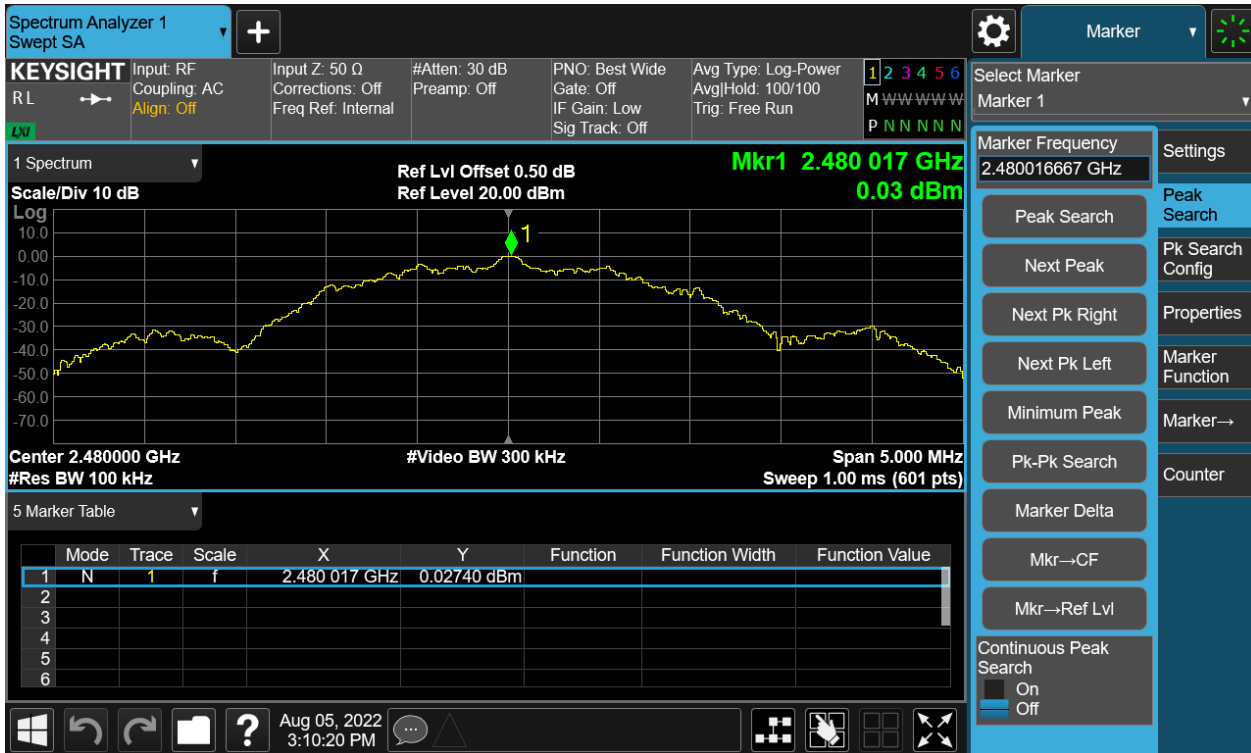
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Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE-2M Carrier Level



Band Edge



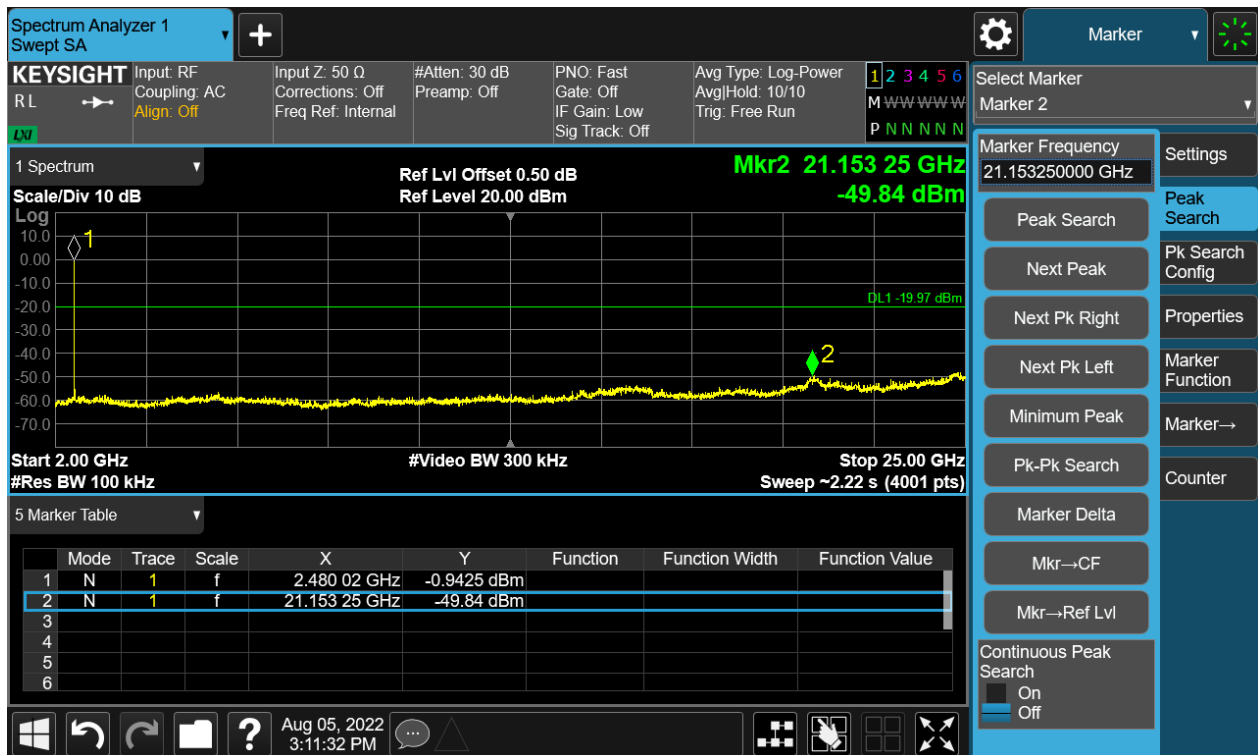
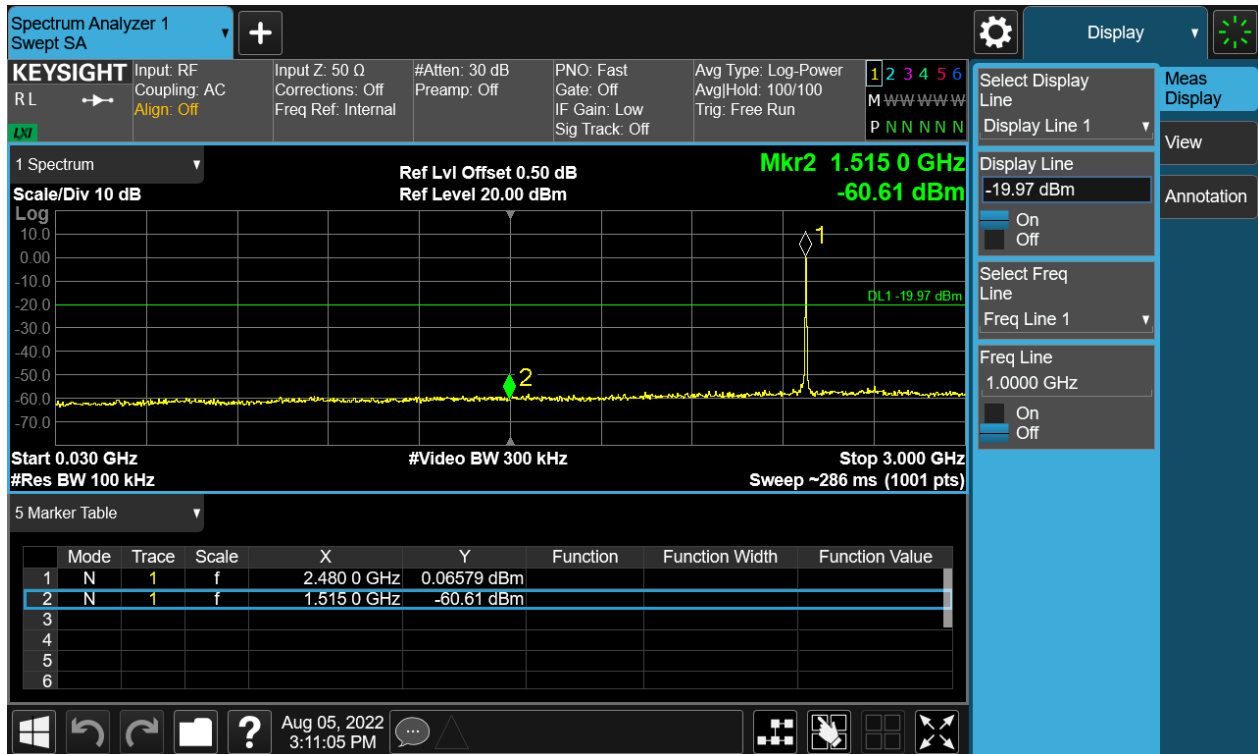
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Emission

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209
Requirement : ANSI C63.10-2013 clause 11.12,
KDB 558074 clause 8.6
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High
Operation Mode : A
Ambient temperature : 24.5°C
Relative humidity : 53%

Notes

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. All test modes had been pre-tested, but only the BLE-1M&2M at low channel of below 1 GHz is the worst case and recorded in the report.
4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

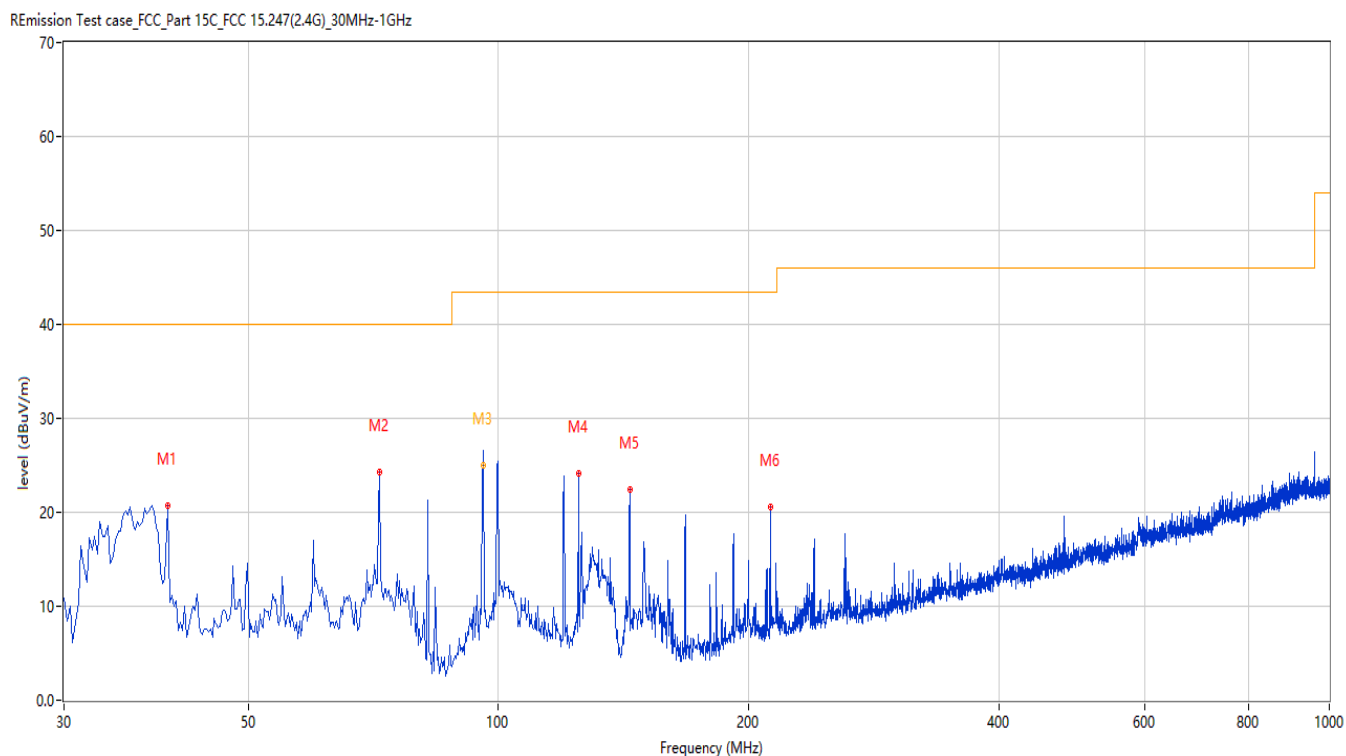
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Figure 25: Radiated Emission, BLE-1M, 2402MHz_30MHz_1GHz
Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.940	20.78	-26.34	40.0	-19.22	Peak	194.50	200	Horizontal	Pass
2	71.942	24.27	-30.08	40.0	-15.73	Peak	199.40	200	Horizontal	Pass
3	95.944	26.54	-27.17	43.5	-16.96	Peak	0.00	200	Horizontal	Pass
3*	95.944	25.02	-27.17	43.5	-18.48	QP	0.00	200	Horizontal	Pass
4	124.794	24.11	-28.97	43.5	-19.39	Peak	88.10	200	Horizontal	Pass
5	143.947	22.50	-30.00	43.5	-21.00	Peak	51.30	200	Horizontal	Pass
6	212.314	20.50	-26.71	43.5	-23.00	Peak	356.00	200	Horizontal	Pass

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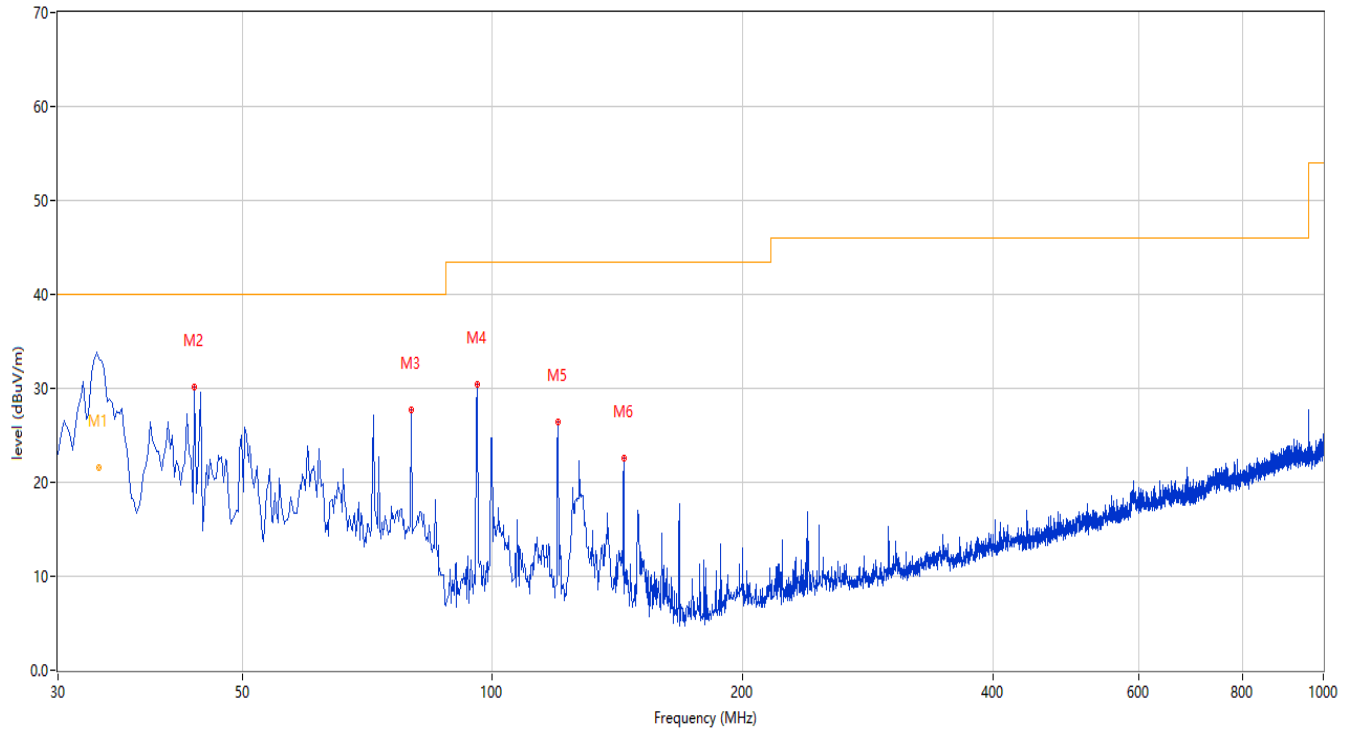
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Vertical polarization

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.586	35.24	-28.62	40.0	-4.76	Peak	360.00	124	Vertical	Pass
1*	33.586	21.62	-28.62	40.0	-18.38	QP	360.00	124	Vertical	Pass
2	43.819	30.15	-25.37	40.0	-9.85	Peak	146.60	200	Vertical	Pass
3	79.943	27.74	-31.57	40.0	-12.26	Peak	178.70	100	Vertical	Pass
4	95.944	30.43	-27.17	43.5	-13.07	Peak	30.60	100	Vertical	Pass
5	119.945	26.44	-28.31	43.5	-17.06	Peak	360.00	200	Vertical	Pass
6	143.947	22.52	-30.00	43.5	-20.98	Peak	0.00	100	Vertical	Pass

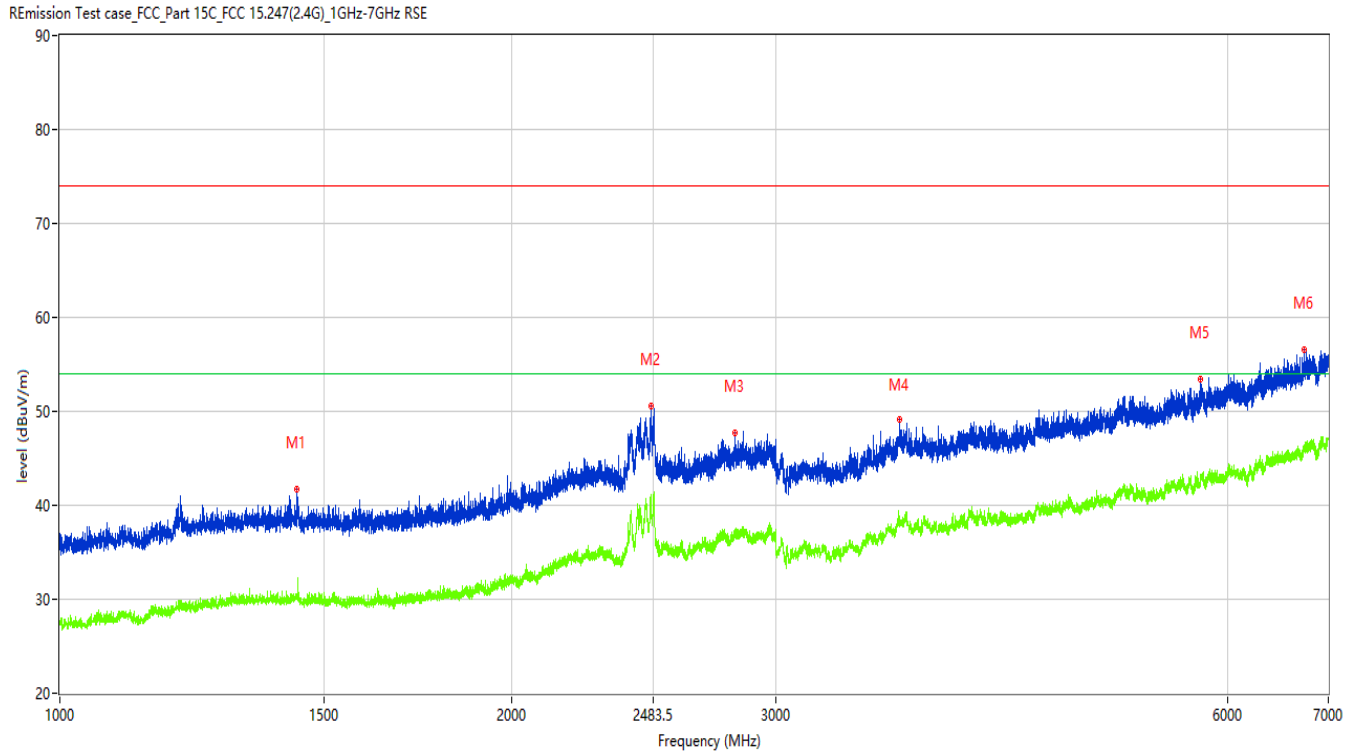
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Figure 26: Radiated Emission, BLE-1M, 2402MHz_1GHz_7GHz
Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.945	41.75	-12.71	74.0	-32.25	Peak	16.10	100	Horizontal	Pass
1**	1438.945	30.39	-12.71	54.0	-23.61	AV	16.10	100	Horizontal	Pass
2	2475.066	50.58	-2.14	74.0	-23.42	Peak	54.80	100	Horizontal	Pass
2**	2475.066	41.12	-2.14	54.0	-12.88	AV	54.80	100	Horizontal	Pass
3	2819.023	47.72	-4.33	74.0	-26.28	Peak	98.00	100	Horizontal	Pass
3**	2819.023	37.24	-4.33	54.0	-16.76	AV	98.00	100	Horizontal	Pass
4	3624.922	49.07	-1.59	74.0	-24.93	Peak	6.40	100	Horizontal	Pass
4**	3624.922	38.50	-1.59	54.0	-15.50	AV	6.40	100	Horizontal	Pass
5	5751.656	53.49	2.00	74.0	-20.51	Peak	0.80	100	Horizontal	Pass
5**	5751.656	42.23	2.00	54.0	-11.77	AV	0.80	100	Horizontal	Pass
6	6744.532	56.53	4.79	74.0	-17.47	Peak	90.00	100	Horizontal	Pass
6**	6744.532	46.18	4.79	54.0	-7.82	AV	90.00	100	Horizontal	Pass

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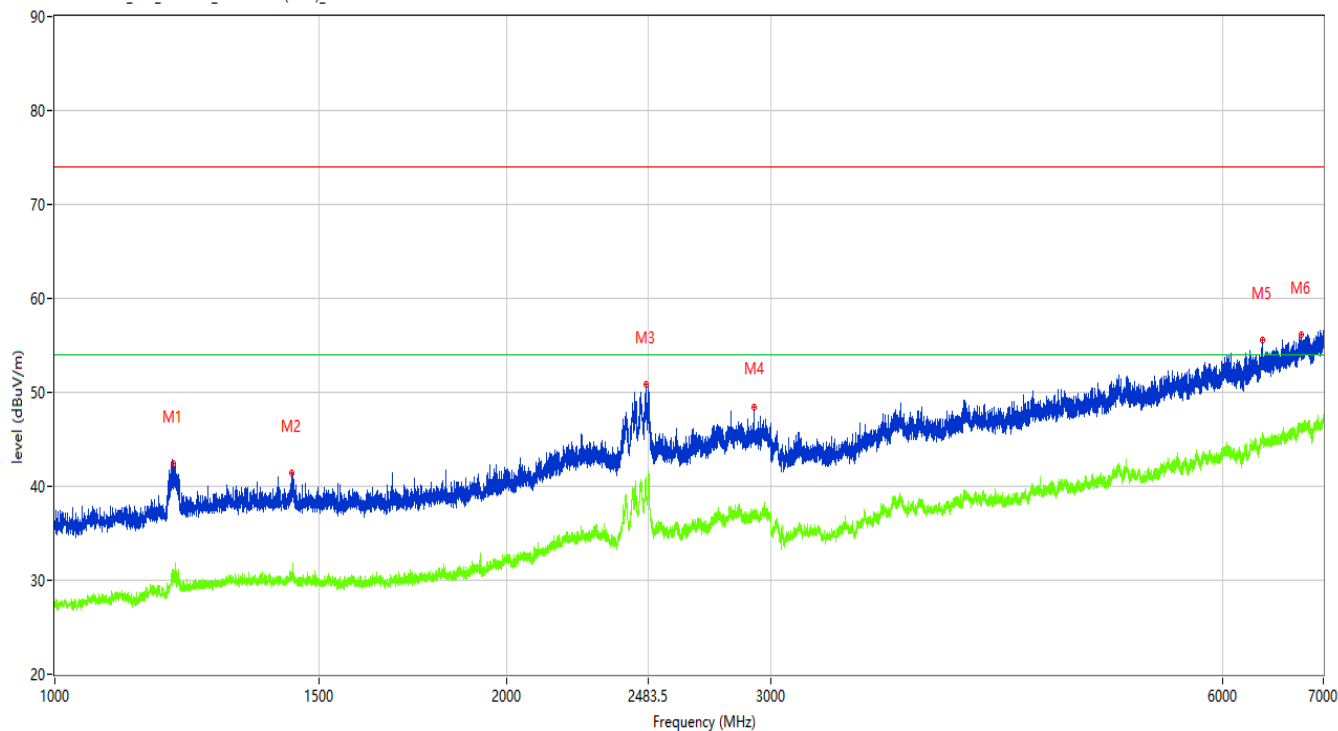
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Vertical polarization

REmission Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-7GHz RSE



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.225	42.43	-13.53	74.0	-31.57	Peak	101.70	100	Vertical	Pass
1**	1200.225	30.50	-13.53	54.0	-23.50	AV	101.70	100	Vertical	Pass
2	1438.945	41.38	-12.71	74.0	-32.62	Peak	129.20	100	Vertical	Pass
2**	1438.945	30.41	-12.71	54.0	-23.59	AV	129.20	100	Vertical	Pass
3	2475.066	50.86	-2.14	74.0	-23.14	Peak	319.70	100	Vertical	Pass
3**	2475.066	40.59	-2.14	54.0	-13.41	AV	319.70	100	Vertical	Pass
4	2922.760	48.37	-4.18	74.0	-25.63	Peak	282.50	100	Vertical	Pass
4**	2922.760	37.58	-4.18	54.0	-16.42	AV	282.50	100	Vertical	Pass
5	6380.577	55.59	3.60	74.0	-18.41	Peak	245.40	100	Vertical	Pass
5**	6380.577	44.94	3.60	54.0	-9.06	AV	245.40	100	Vertical	Pass
6	6763.530	56.16	4.99	74.0	-17.84	Peak	284.90	100	Vertical	Pass
6**	6763.530	45.76	4.99	54.0	-8.24	AV	284.90	100	Vertical	Pass

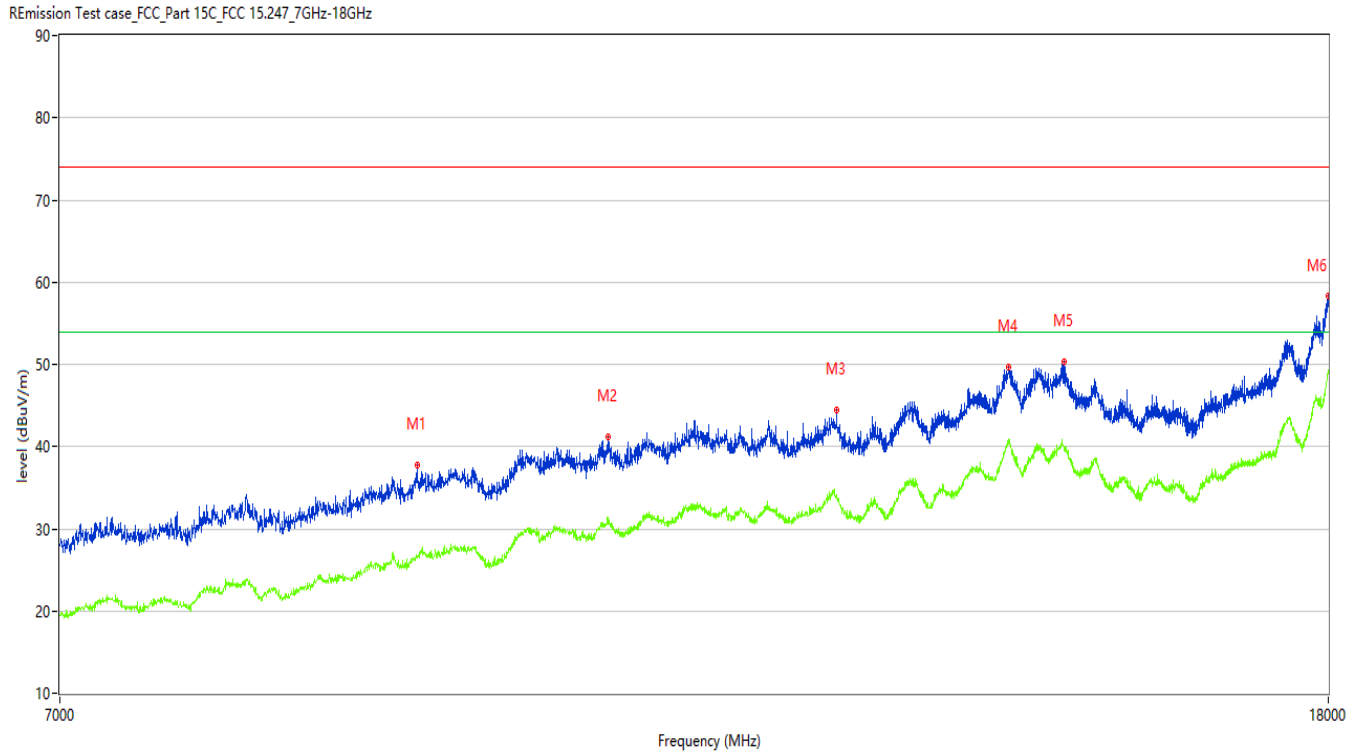
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Figure 27: Radiated Emission, BLE-1M, 2402MHz_7GHz_18GHz
Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	9134.000	37.78	7.05	74.0	-36.22	Peak	189.90	100	Horizontal	Pass
1**	9134.000	26.57	7.05	54.0	-27.43	AV	189.90	100	Horizontal	Pass
2	10525.500	41.17	10.24	74.0	-32.83	Peak	23.10	100	Horizontal	Pass
2**	10525.500	31.34	10.24	54.0	-22.66	AV	23.10	100	Horizontal	Pass
3	12480.750	44.48	12.21	74.0	-29.52	Peak	338.70	100	Horizontal	Pass
3**	12480.750	34.17	12.21	54.0	-19.83	AV	338.70	100	Horizontal	Pass
4	14183.000	49.72	19.60	74.0	-24.28	Peak	23.10	100	Horizontal	Pass
4**	14183.000	40.48	19.60	54.0	-13.52	AV	23.10	100	Horizontal	Pass
5	14782.500	50.35	18.58	74.0	-23.65	Peak	23.10	100	Horizontal	Pass
5**	14782.500	39.71	18.58	54.0	-14.29	AV	23.10	100	Horizontal	Pass
6	17994.500	58.30	27.58	74.0	-15.70	Peak	119.90	100	Horizontal	Pass
6**	17994.500	48.79	27.58	54.0	-5.21	AV	119.90	100	Horizontal	Pass