

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 1 of 84

Applicant : Beyonics Technology Electronic (Changshu) Co., Ltd.
Address of Applicant : 18 Yinhuan Road, Changshu New & Hi-tech Industrial
Development Zone of Jiangsu, Changshu, Jiangsu
215500, China

Product Name : Good Remote 2023
Brand Name : VIZIO
Model No. : XRT270
Sample No. : E22060072-02#01
E22060072-02#02
FCC ID : 2A7Y5-XRT270

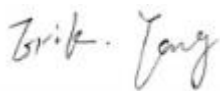
Standards : FCC CFR47 Part 15, Subpart C

Date of Receipt : 2022-07-12
Date of Test : 2022-07-14~ 2022-07-18
Date of Issue : 2022-07-19

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:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Guoyou Chi)

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 2 of 84

Contents

1	GENERAL INFORMATION	3
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
1.4	TEST METHODOLOGY	4
1.5	TEST SUMMARY	4
2	TEST CONDITION	5
2.1	ENVIRONMENTAL CONDITIONS	5
2.2	EQUIPMENT LIST	5
2.3	MEASUREMENT UNCERTAINTY	5
3	TEST SET-UP AND OPERATION MODES	6
3.1	DETAILS OF TEST MODE	6
3.2	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	6
3.3	SUPPORT SOFTWARE	6
3.4	TEST SETUP DIAGRAM	7
4	TEST RESULTS	8
4.1	TRANSMITTER REQUIREMENT & TEST SUITES	8
4.1.1	<i>Antenna Requirement</i>	8
4.1.2	<i>Peak Output Power</i>	9
4.1.3	<i>6dB Bandwidth</i>	13
4.1.4	<i>Maximum Conducted Output Power Spectral Density</i>	17
4.1.5	<i>Conducted Spurious Emission & Authorized-band band-edge</i>	21
4.1.6	<i>Radiated Spurious Emission</i>	33
4.1.7	<i>Band Edge (Restricted-band band-edge)</i>	70
5	APPENDIXES	78
5.1	PHOTOGRAPHS OF THE SAMPLE	78
5.2	SET-UP FOR CONDUCTED RF TEST AT ANTENNA PORT	83
5.3	SET-UP FOR SPURIOUS EMISSIONS BELOW 1GHZ	83
5.4	SET-UP FOR SPURIOUS EMISSIONS ABOVE 1GHZ	84

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 3 of 84

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	Beyonics Technology Electronic (Changshu) Co., Ltd.
Address	18 Yinhuan Road, Changshu New & Hi-tech Industrial Development Zone of Jiangsu, Changshu, Jiangsu 215500, China
Contact Person	Pillar Chen
Telephone	+86 51252351155
Email	chenlp@cn.beyonics.com
Manufacturer Company Name	Beyonics Technology Electronic (Changshu) Co., Ltd.
Address	18 Yinhuan Road, Changshu New & Hi-tech Industrial Development Zone of Jiangsu, Changshu, Jiangsu 215500, China

1.3 Details of EUT

Product Name	Good Remote 2023
Brand Name	VIZIO
Test Model No.	XRT270
FCC ID	2A7Y5-XRT270
Mode of Operation	Bluetooth BLE 1M/2M
Frequency Range	2400MHz ~ 2483.5MHz
Number of Channels	40 (at intervals of 2 MHz)
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	1.0dBi
Test Voltage	DC 3V by battery(LR03 AAA)
Hardware version	V1.0
Software version	V1.0
RF power setting in TEST_SW	EMI_Test_Tool_V2.0

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 4 of 84

1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
KDB Publication 558074 D01 v05r02	Part 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.

1.5 Test Summary

Test Item	FCC Rules	Result
Antenna Requirement	FCC Part 15.247(b)(4), Part 15.203	PASS
Peak 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 Spurious 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(s): The EUT was powered by battery(LR03 AAA)

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 5 of 84

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 Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2021-08-17	2022-08-16
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2022-06-09	2023-06-08
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2022-06-09	2023-06-08
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2021-08-13	2022-08-12
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2022-06-09	2023-06-08
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2022-06-09	2023-06-08
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2020-11-23	2022-11-22
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2022-06-09	2023-06-08
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2020-06-09	2023-06-08
Test Software	BL	BL410_E	N/A	N/A	N/A
Test Software	BL	BL410_R	N/A	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	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3.42 dB
	> 1GHz	± 4.20 dB

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 6 of 84

3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software (EMI_Test_Tool_V2.0) was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

The basic operation modes are:

- A. On
 - 1. BLE mode
 - a. Transmitting-BLE 1M
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Transmitting-BLE 2M
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - 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
USB Cable	N/A	N/A	1.0m Unshielded

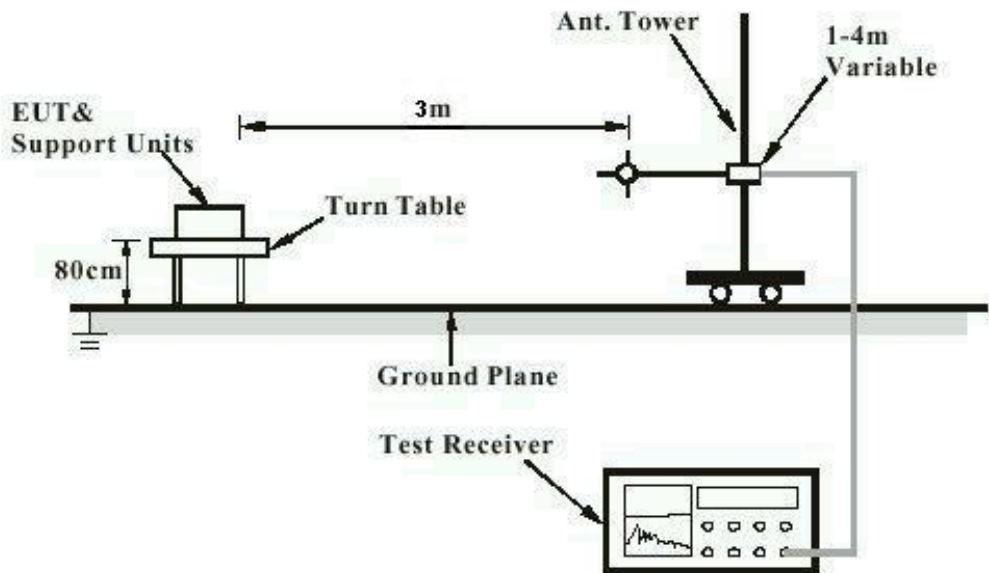
3.3 Support Software

Description	Manufacturer	Software Name
Software	N/A	EMI_Test_Tool_V2.0

TEST REPORT

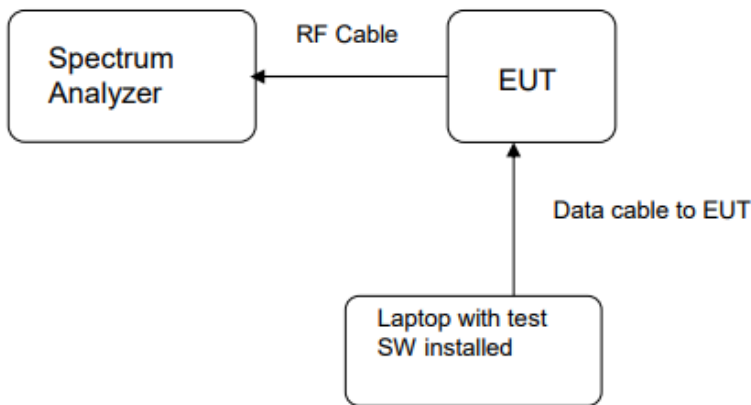
3.4 Test Setup Diagram

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 Equipment Configuration for Transmitter Test



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 8 of 84

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 1.0dBi. The antenna is an 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.

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 9 of 84

4.1.2 Peak Output Power

RESULT:

PASS

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

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a, A.1.b
Ambient temperature : 24.6°C
Relative humidity : 52%

Table 1: Peak Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(mW)	
BLE-1M	2402	3.40	2.19	≤1
	2440	3.15	2.07	
	2480	2.40	1.74	
BLE-2M	2402	3.28	2.13	
	2440	2.97	1.98	
	2480	2.35	1.72	

TEST REPORT

Report No.: SHE22060072-02AE Date: 2022-07-19 Page 10 of 84

Figure 1: Peak Output Power, BLE_1Mbps_2402MHz

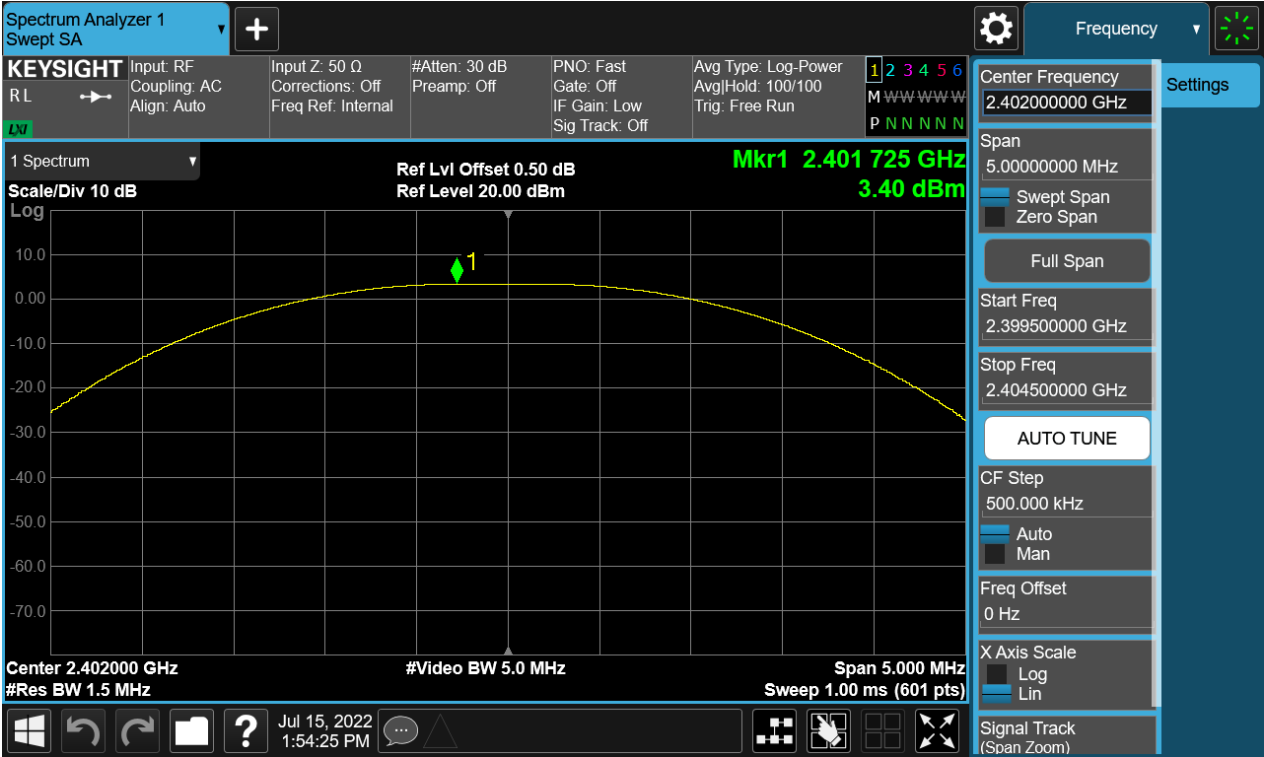


Figure 2: Peak Output Power, BLE_1Mbps_2440MHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 11 of 84

Figure 3: Peak Output Power, BLE_1Mbps_2480MHz

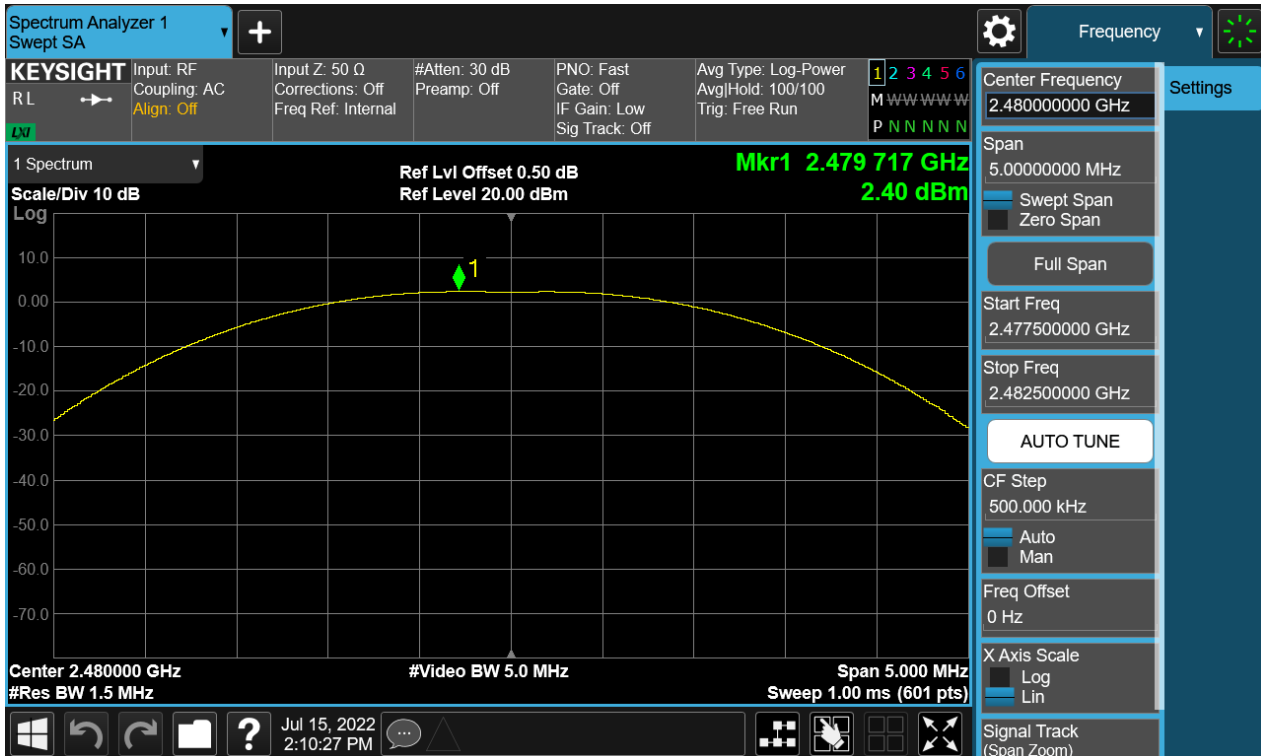
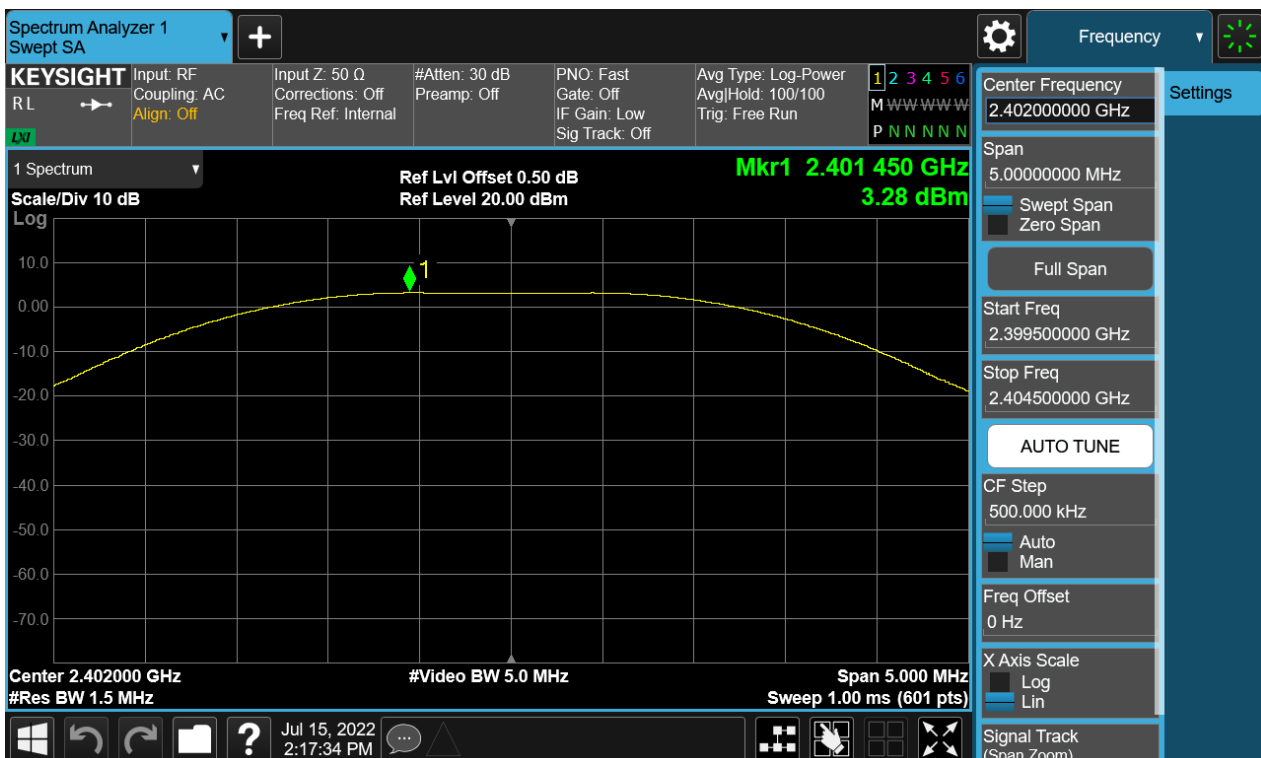


Figure 4: Peak Output Power, BLE_2Mbps_2402MHz



TEST REPORT

Report No.: SHE22060072-02AE Date: 2022-07-19 Page 12 of 84

Figure 5: Peak Output Power, BLE_2Mbps_2440MHz

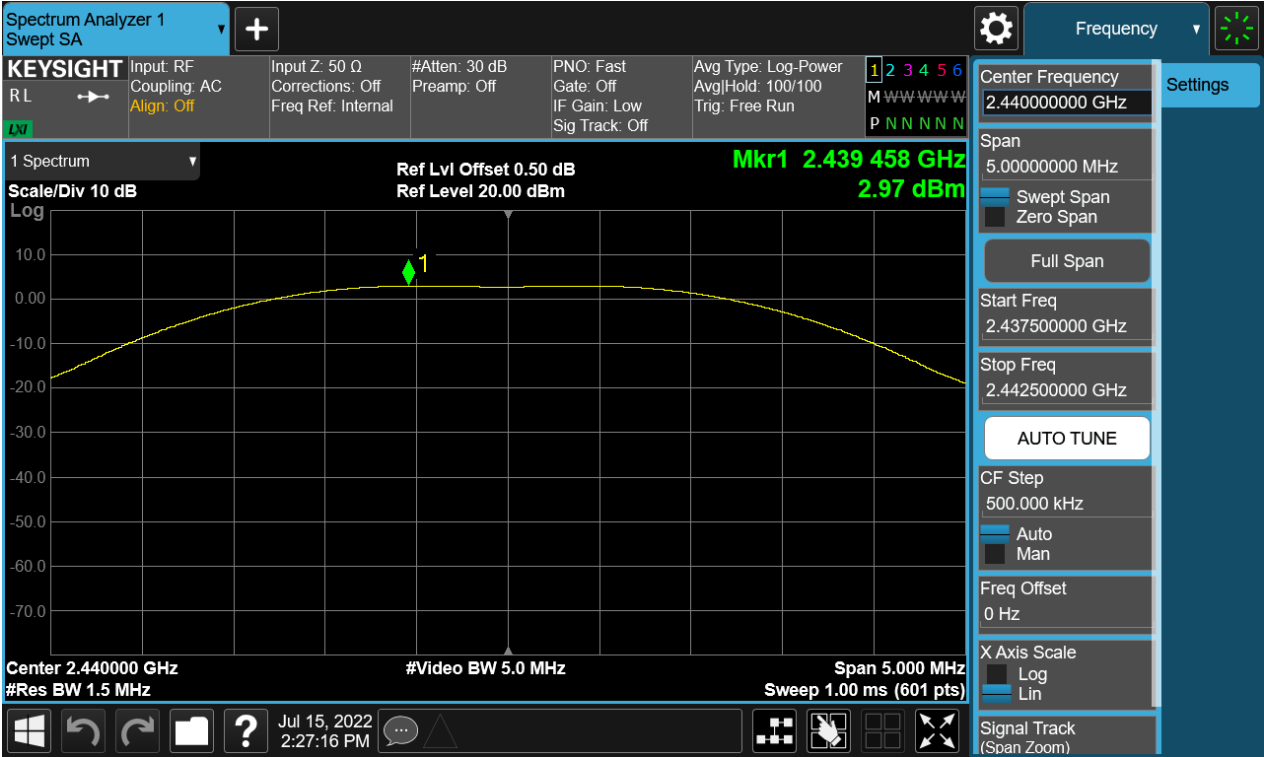


Figure 6: Peak Output Power, BLE_2Mbps_2480MHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 13 of 84

4.1.3 6dB Bandwidth

RESULT:

PASS

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

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a, A.1.b
Ambient temperature : 24.6°C
Relative humidity : 52%

Table 2: 6dB Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	Limit
BLE-1M	2402	0.7075	≥ 0.5 MHz
	2440	0.6580	
	2480	0.6683	
BLE-2M	2402	1.2740	
	2440	1.4590	
	2480	1.2670	

TEST REPORT

Report No.: SHE22060072-02AE

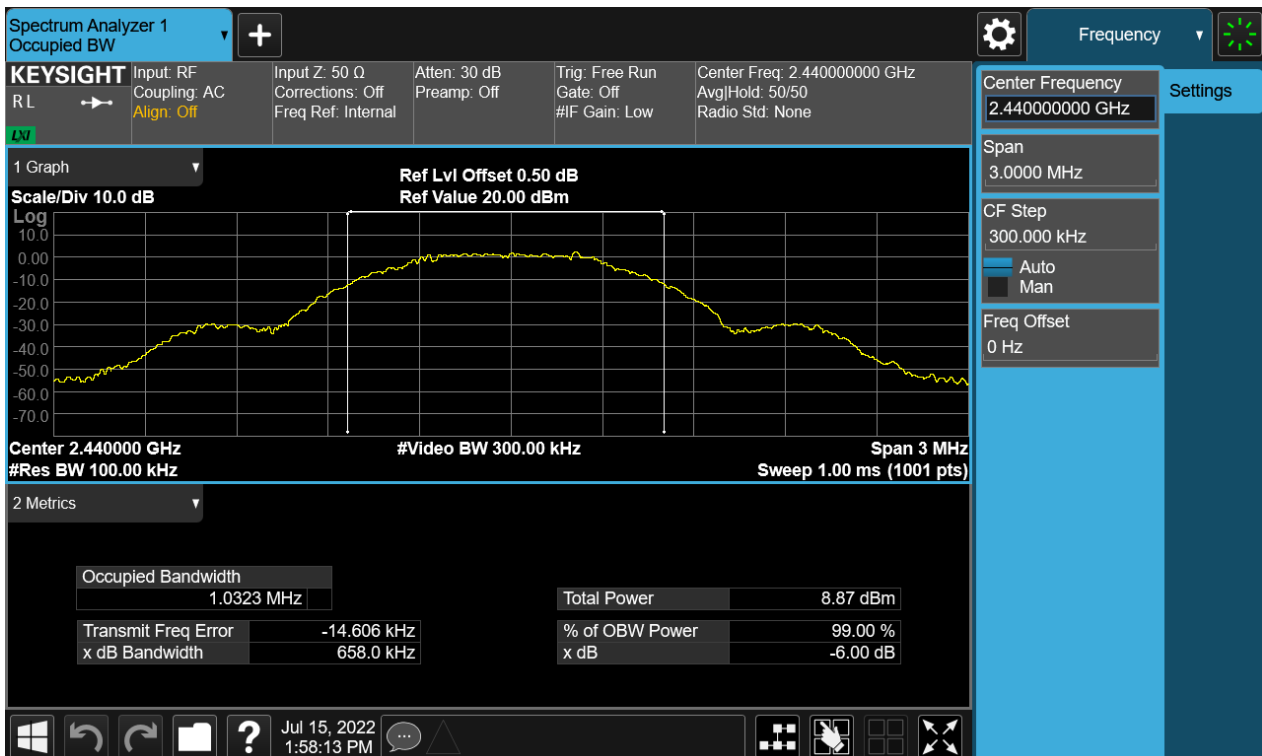
Date: 2022-07-19

Page 14 of 84

Figure 7: 6dB Bandwidth, BLE_1Mbps_2402MHz



Figure 8: 6dB Bandwidth, BLE_1Mbps_2440MHz



TEST REPORT

Report No.:

SHE22060072-02AE

Date:

2022-07-19

Page 15 of 84

Figure 9: 6dB Bandwidth, BLE_1Mbps_2480MHz



Figure 10: 6dB Bandwidth, BLE_2Mbps_2402MHz



TEST REPORT

Report No.: SHE22060072-02AE

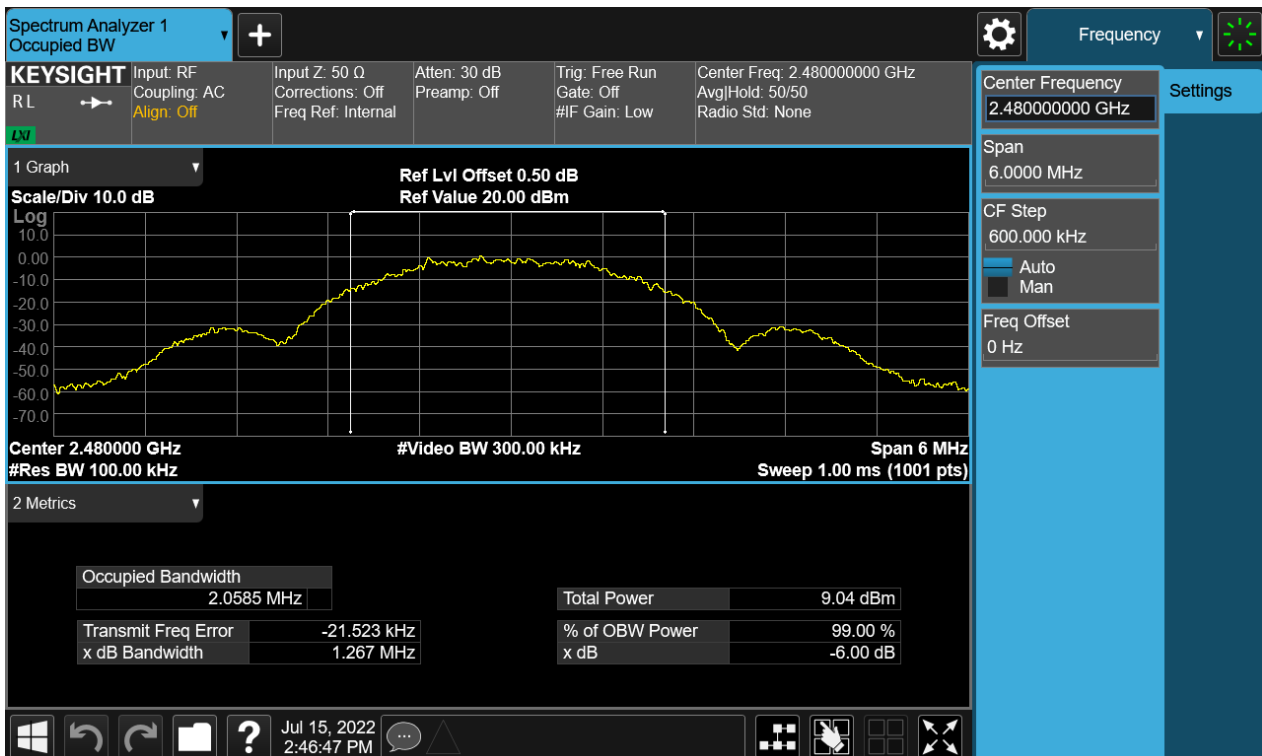
Date: 2022-07-19

Page 16 of 84

Figure 11: 6dB Bandwidth, BLE_2Mbps_2440MHz



Figure 12: 6dB Bandwidth, BLE_2Mbps_2480MHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 17 of 84

4.1.4 Maximum Conducted Output Power Spectral Density

RESULT:

PASS

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

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a, A.1.b
Ambient temperature : 24.6°C
Relative humidity : 52%

Note(s): The method of PKPSD in the ANSI C63.10 item 11.10.2 was used in this testing.

Table 3: Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE-1M	2402	-7.53	≤8
	2440	-9.09	
	2480	-10.60	
BLE-2M	2402	-10.20	
	2440	-11.92	
	2480	-11.76	

TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 18 of 84

Figure 13: Power Spectral Density, BLE_1Mbps_2402MHz

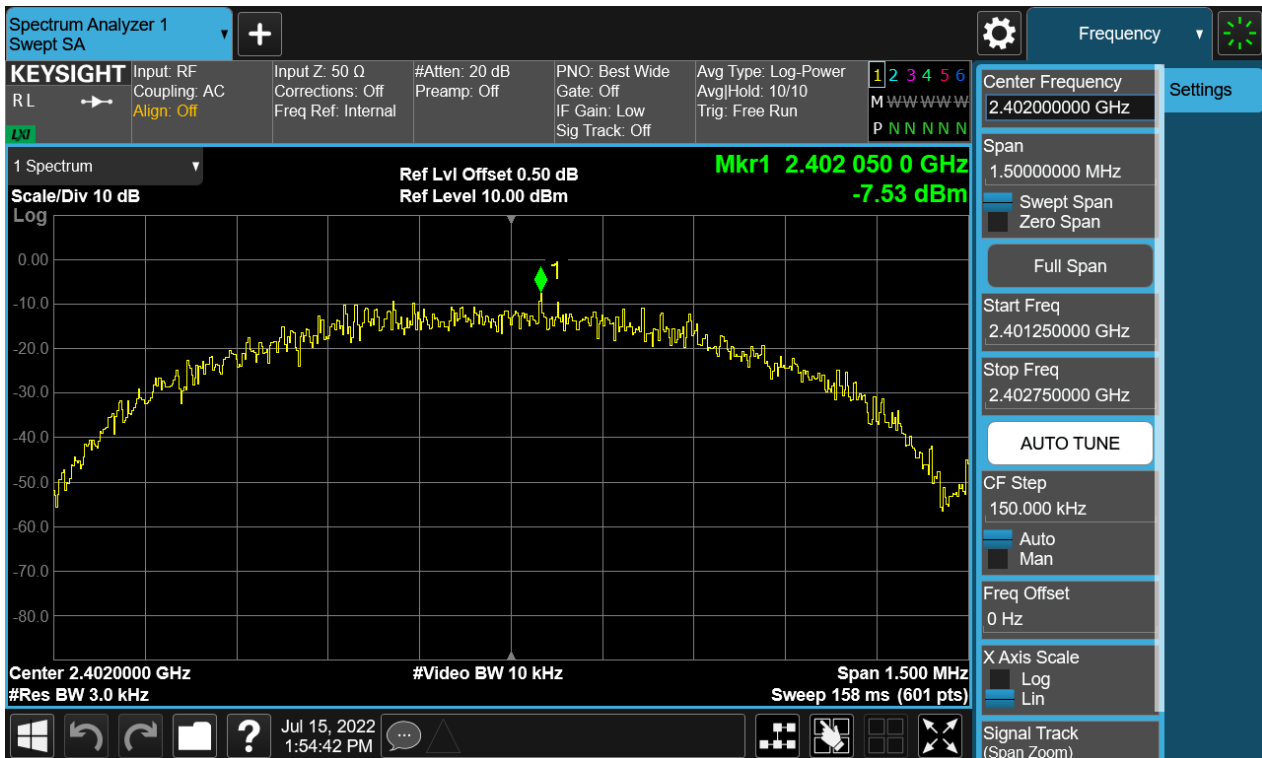
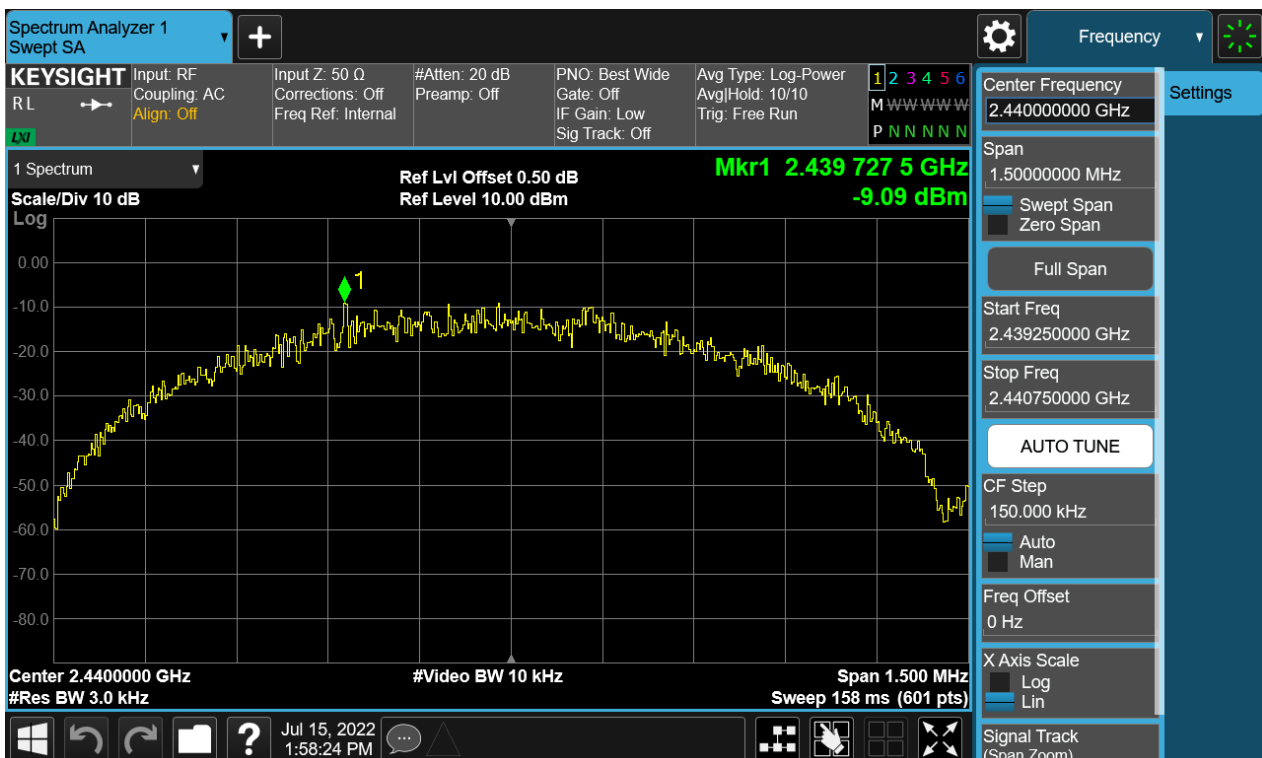


Figure 14: Power Spectral Density, BLE_1Mbps_2440MHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 19 of 84

Figure 15: Power Spectral Density, BLE_1Mbps_2480MHz

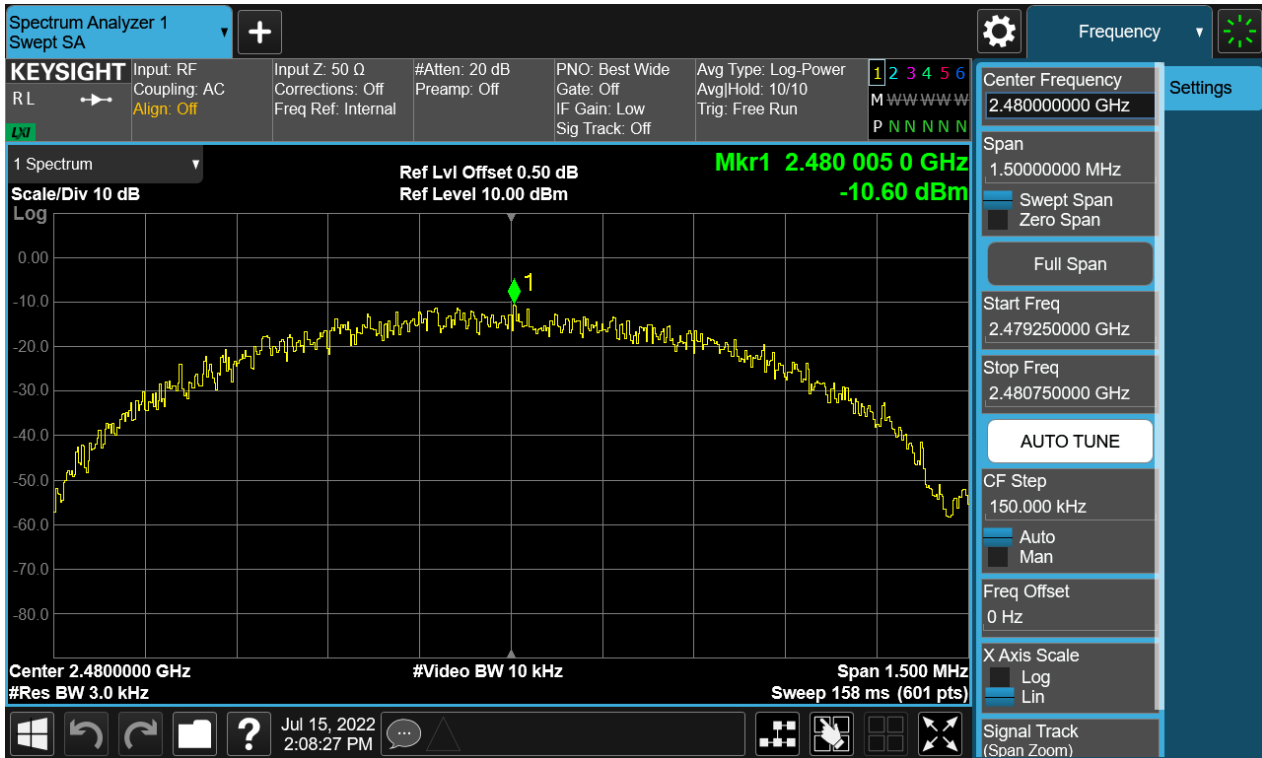
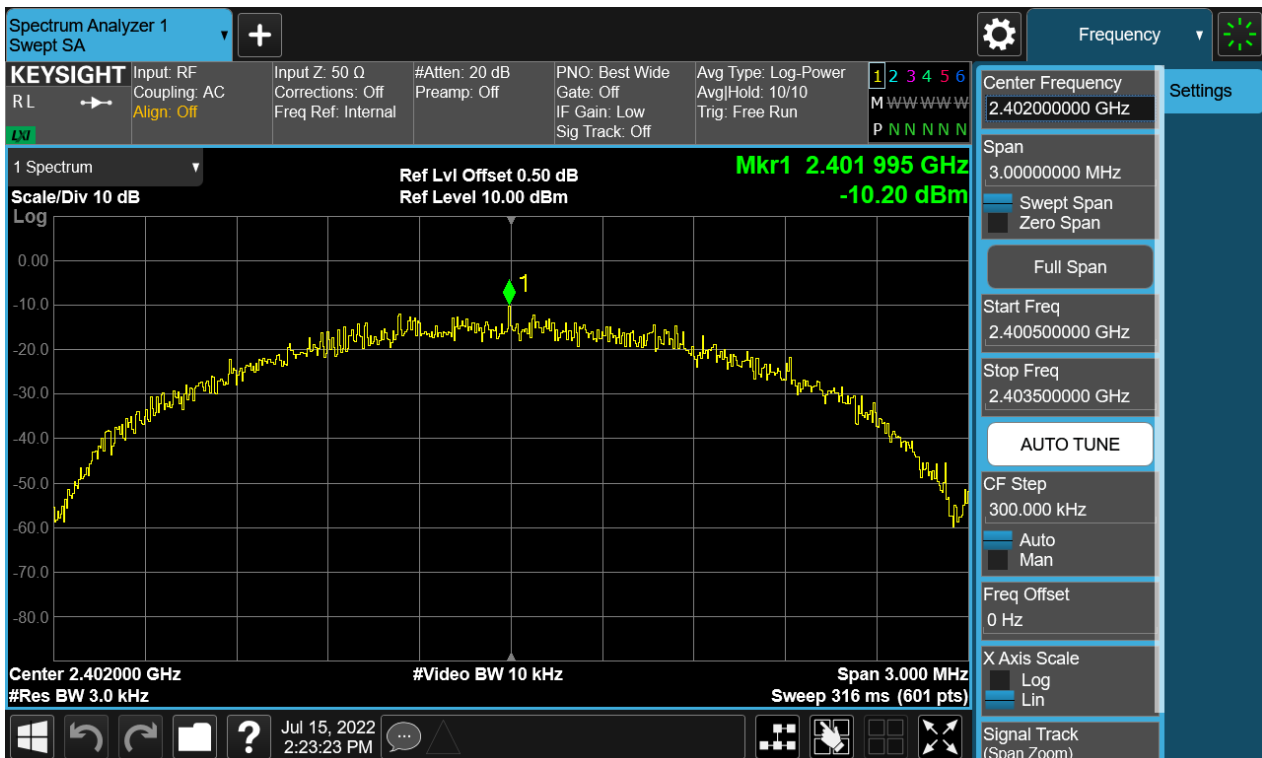


Figure 16: Power Spectral Density, BLE_2Mbps_2402MHz



TEST REPORT

Report No.: SHE22060072-02AE

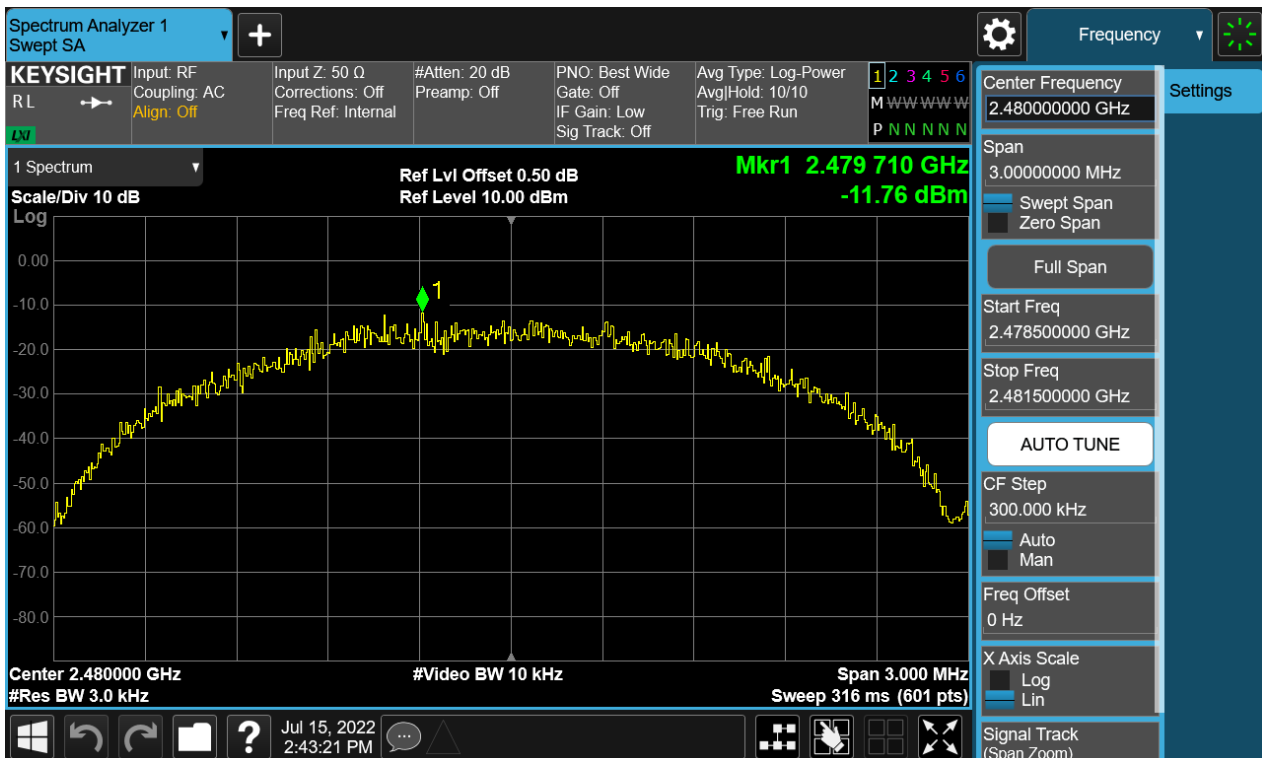
Date: 2022-07-19

Page 20 of 84

Figure 17: Power Spectral Density, BLE_2Mbps_2440MHz



Figure 18: Power Spectral Density, BLE_2Mbps_2480MHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 21 of 84

4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d)
Requirement	: ANSI C63.10-2013, KDB 558074
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, A.1.b
Ambient temperature	: 24.6°C
Relative humidity	: 52%

For details refer to following test plot.

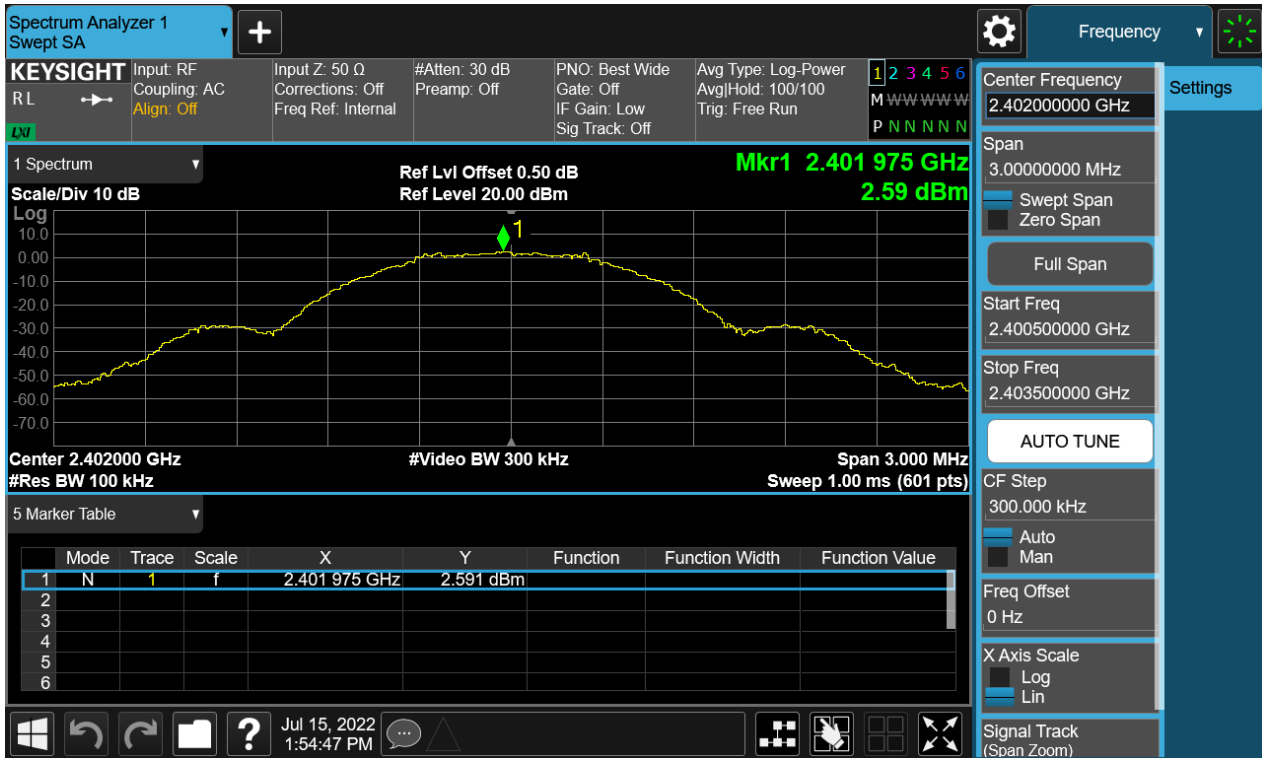
TEST REPORT

Report No.: SHE22060072-02AE

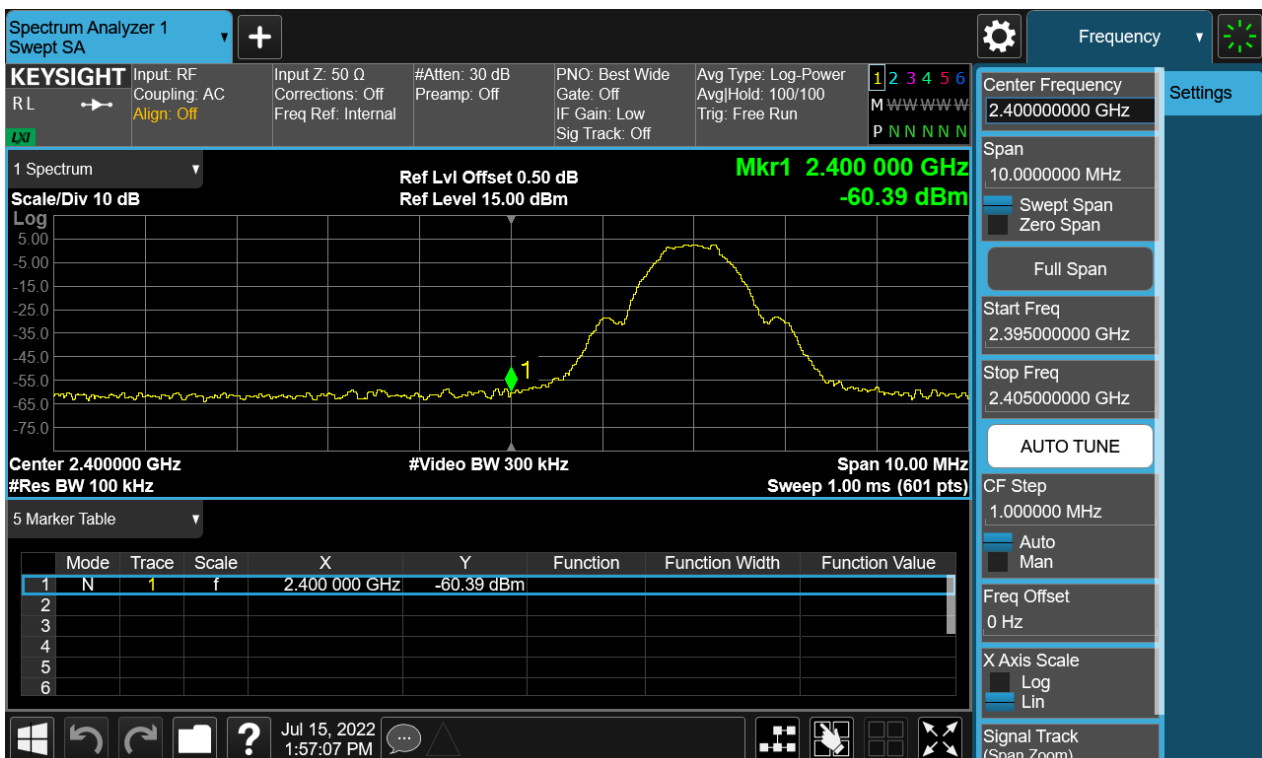
Date: 2022-07-19

Page 22 of 84

Figure 4: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE_1Mbps Carrier Level



Band Edge



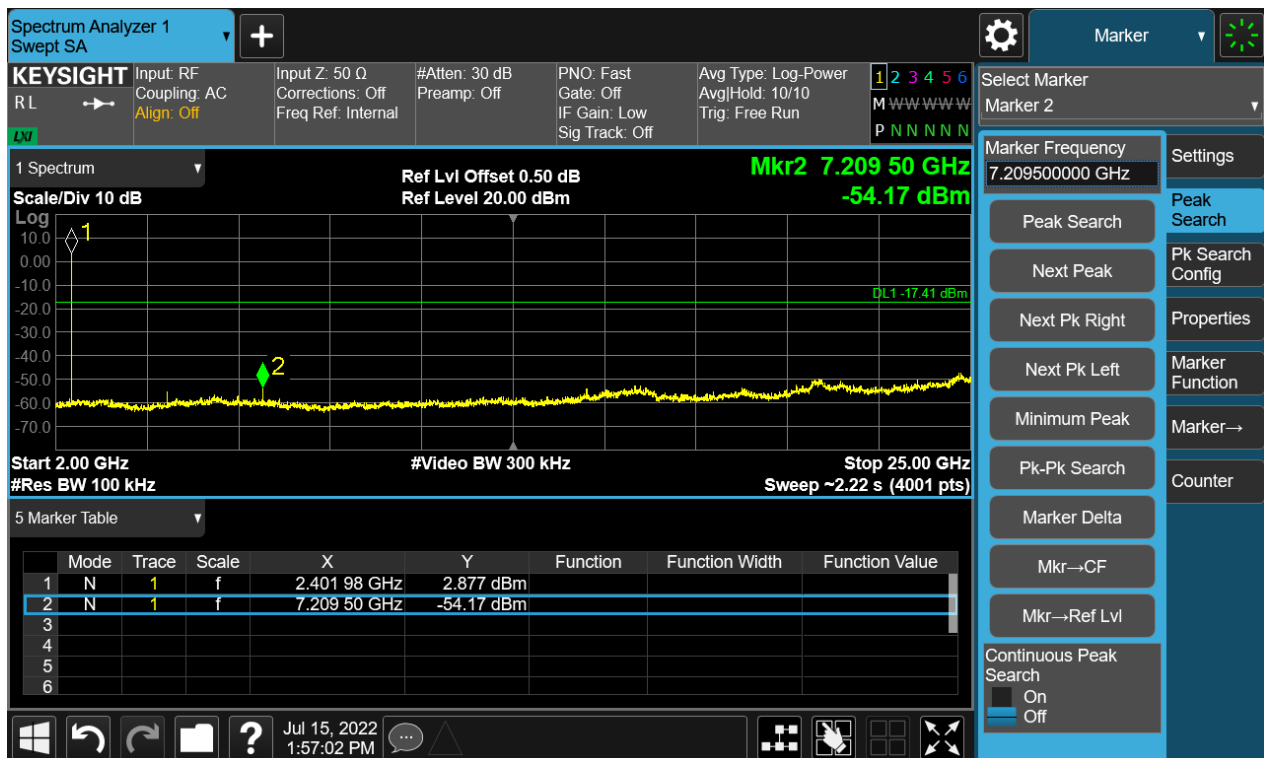
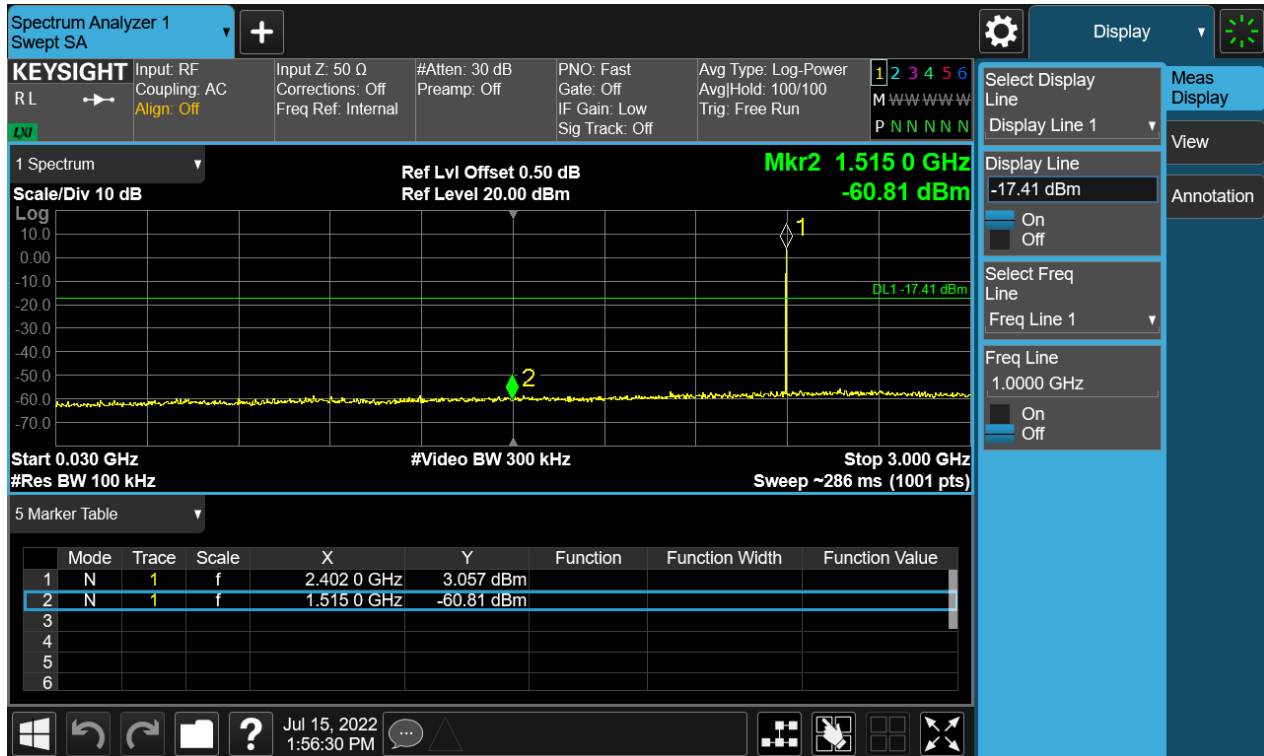
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 23 of 84

Conducted spurious emissions 30MHz-25GHz



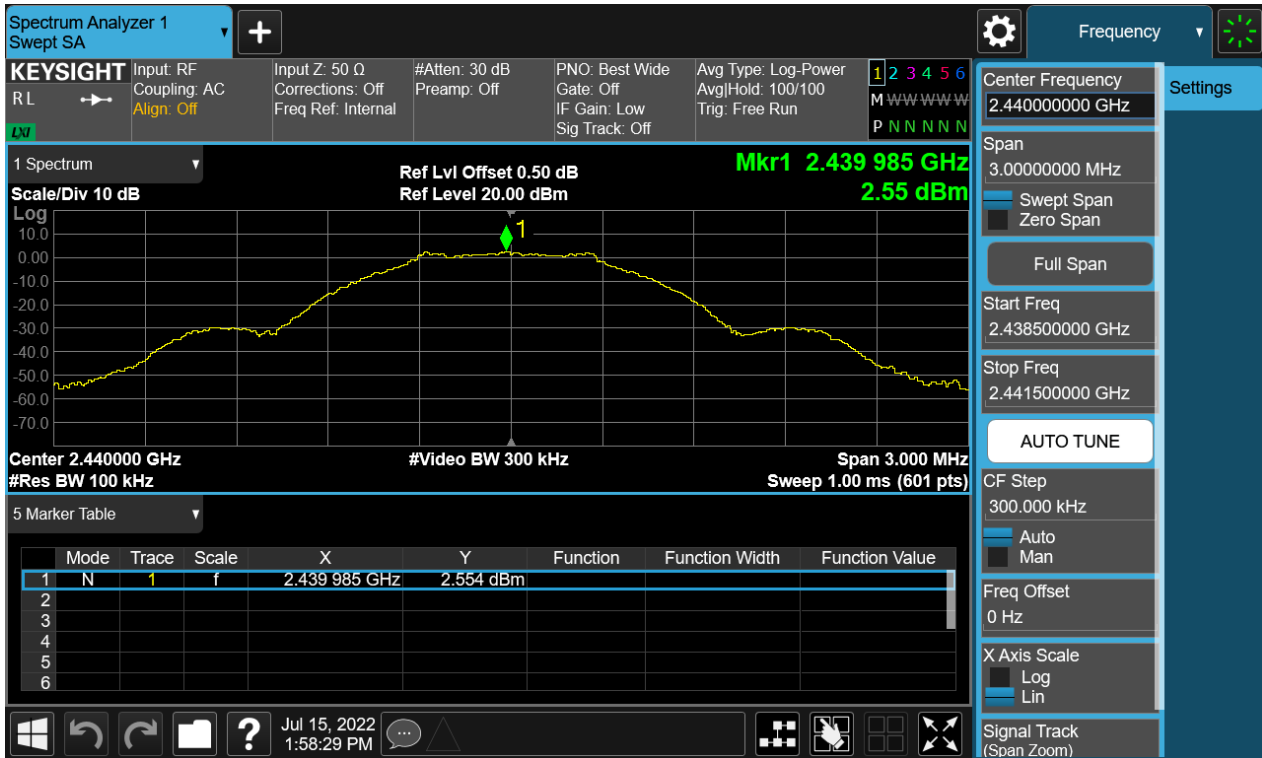
TEST REPORT

Report No.: SHE22060072-02AE

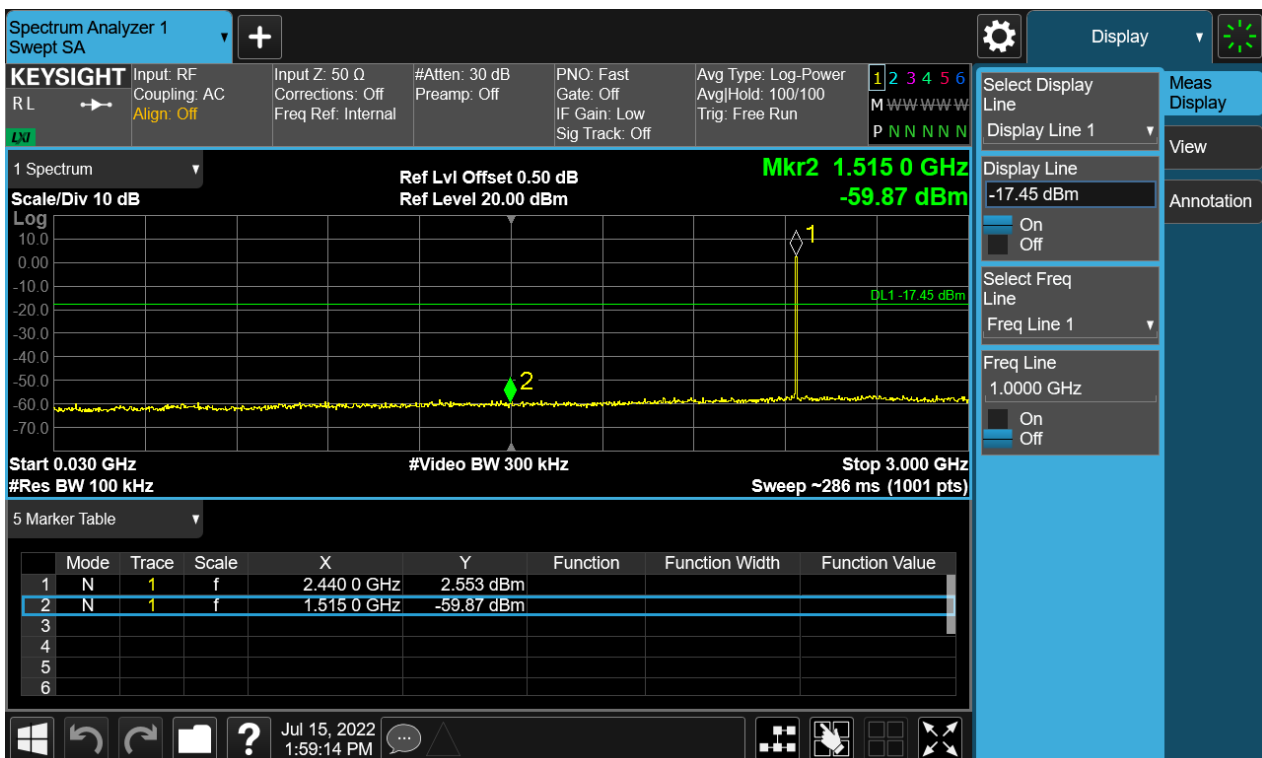
Date: 2022-07-19

Page 24 of 84

Figure 5: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE_1Mbps Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 25 of 84

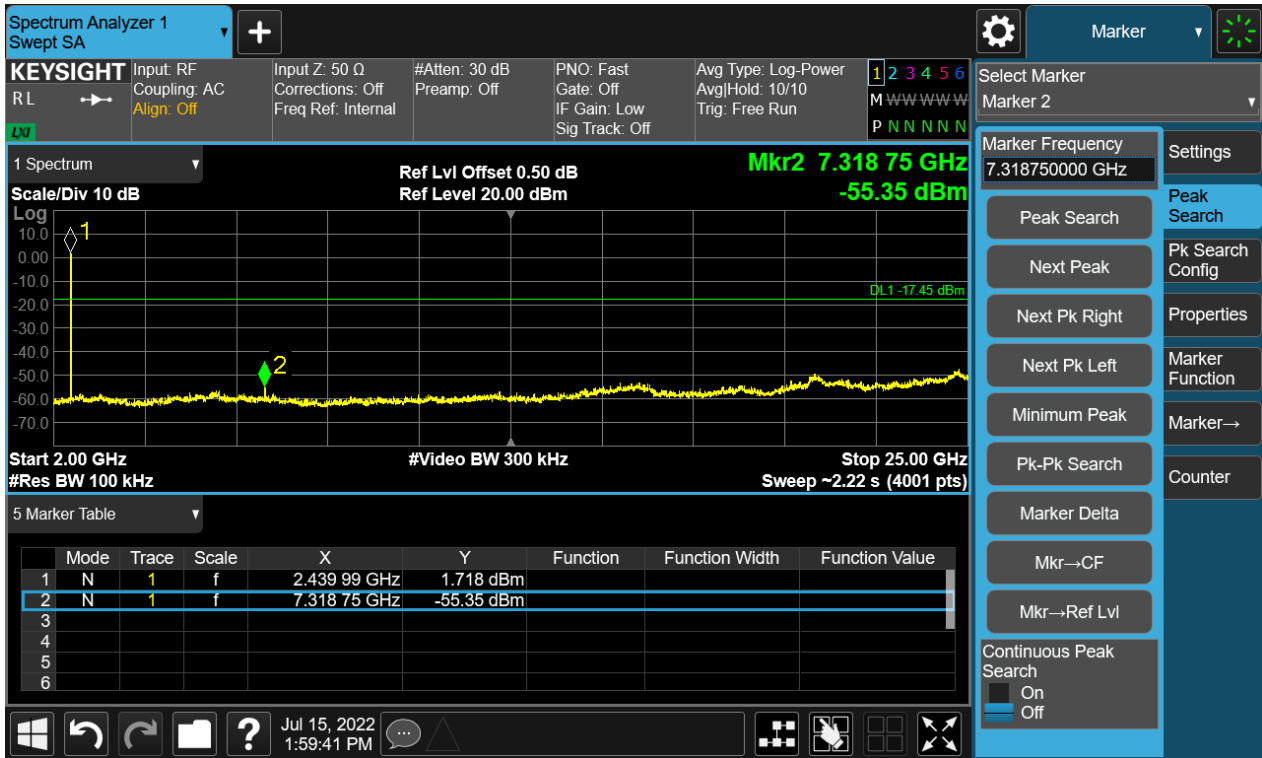
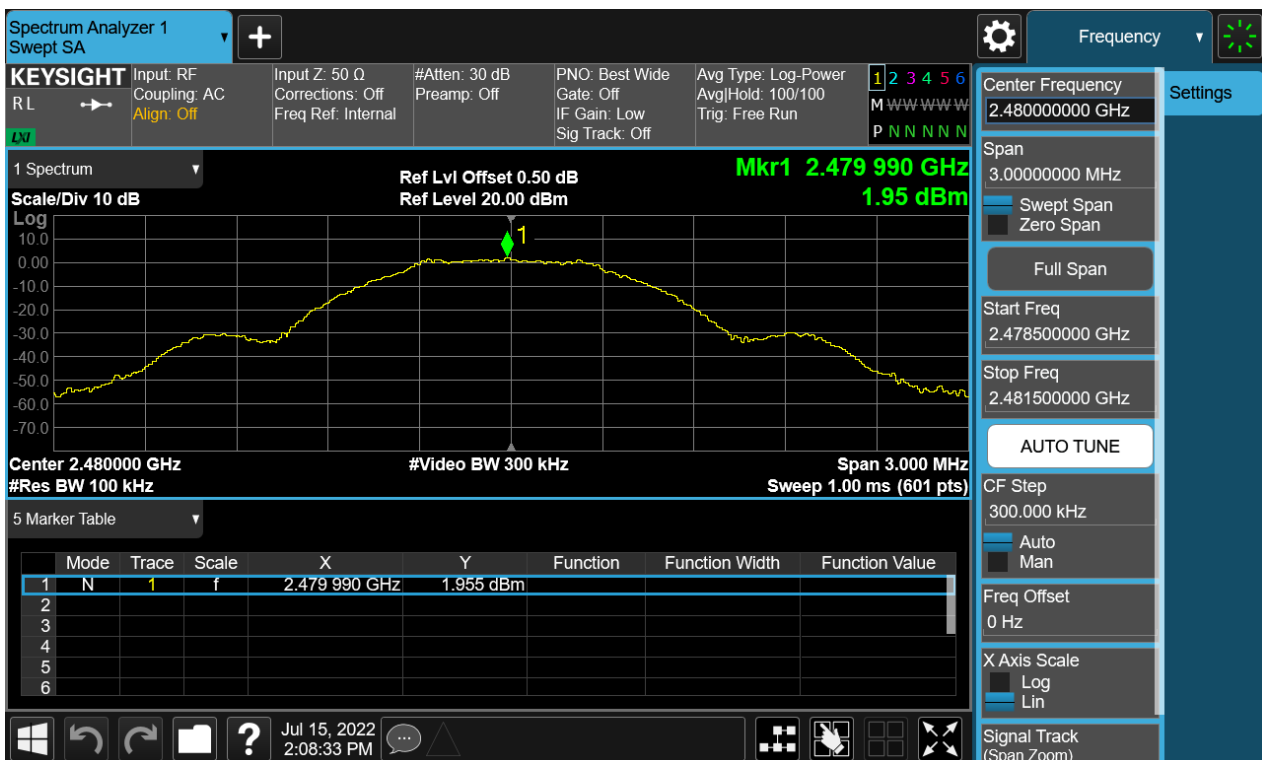


Figure 6: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE_1Mbps Carrier Level



TEST REPORT

Report No.:

SHE22060072-02AE

Date:

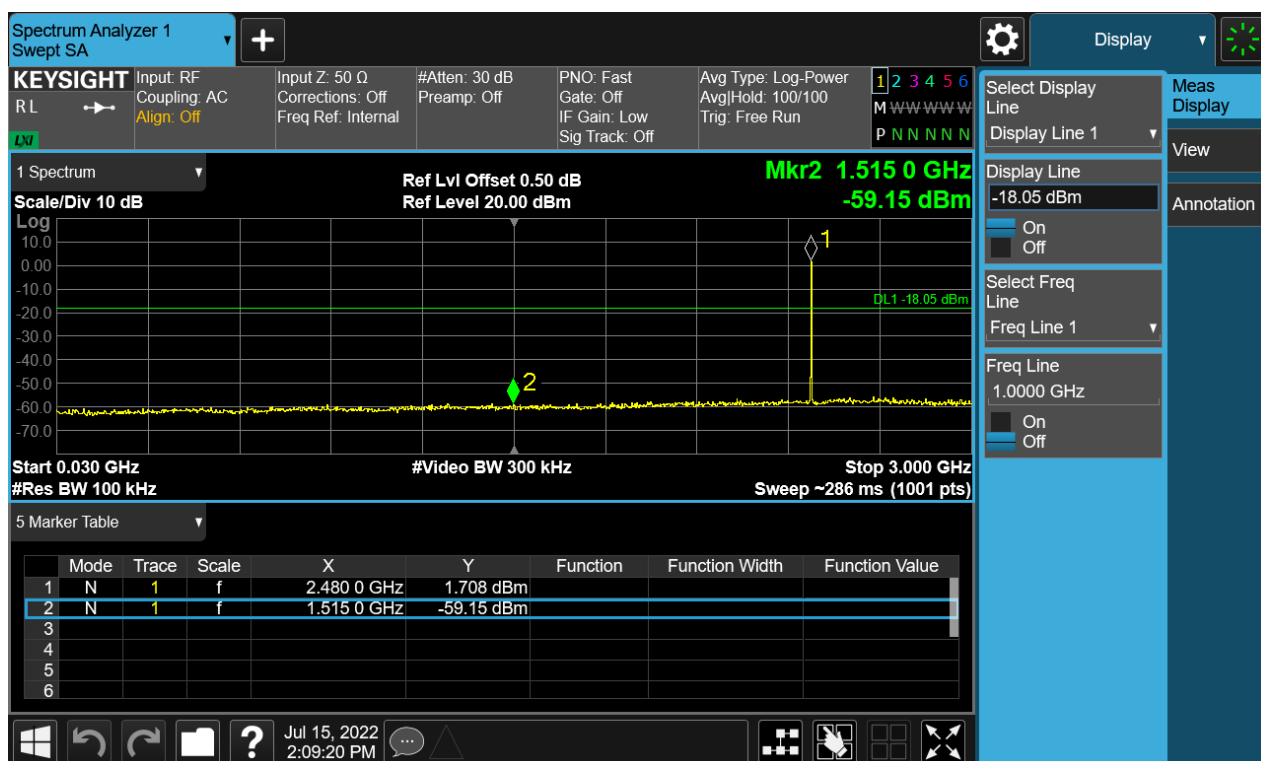
2022-07-19

Page 26 of 84

Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.:

SHE22060072-02AE

Date:

2022-07-19

Page 27 of 84

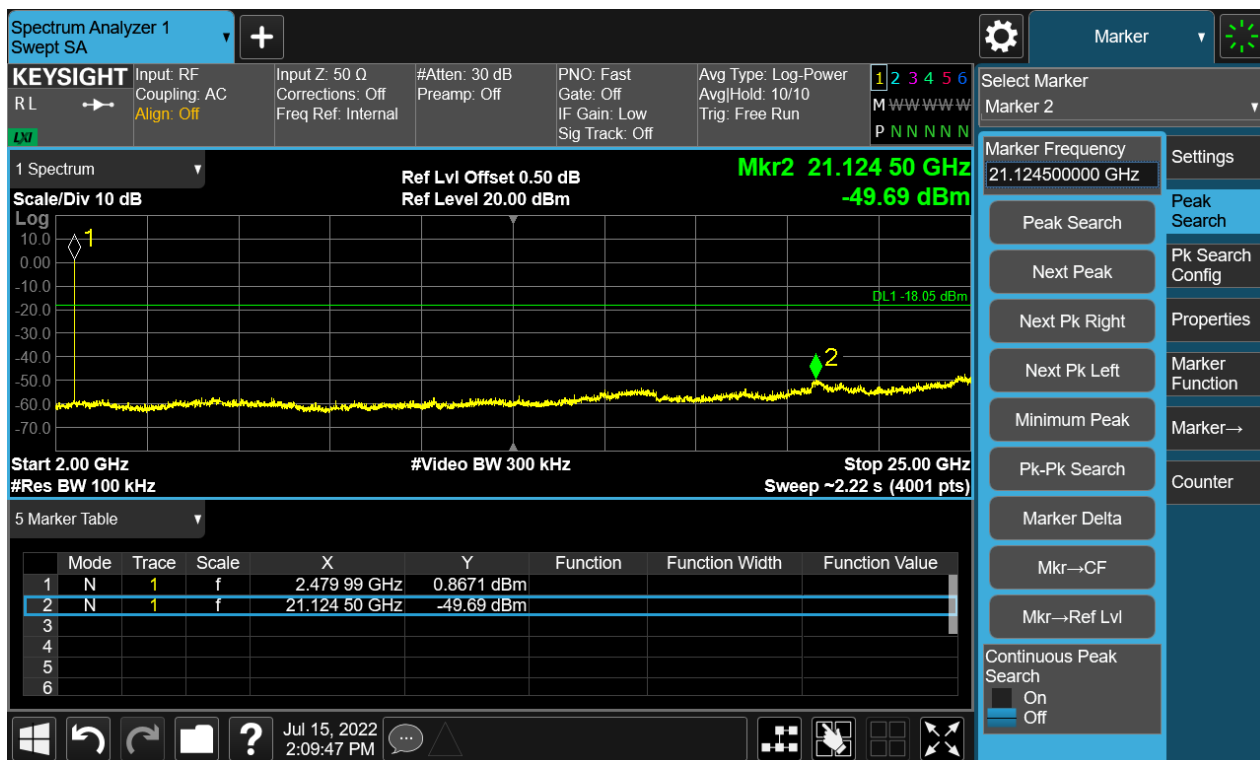
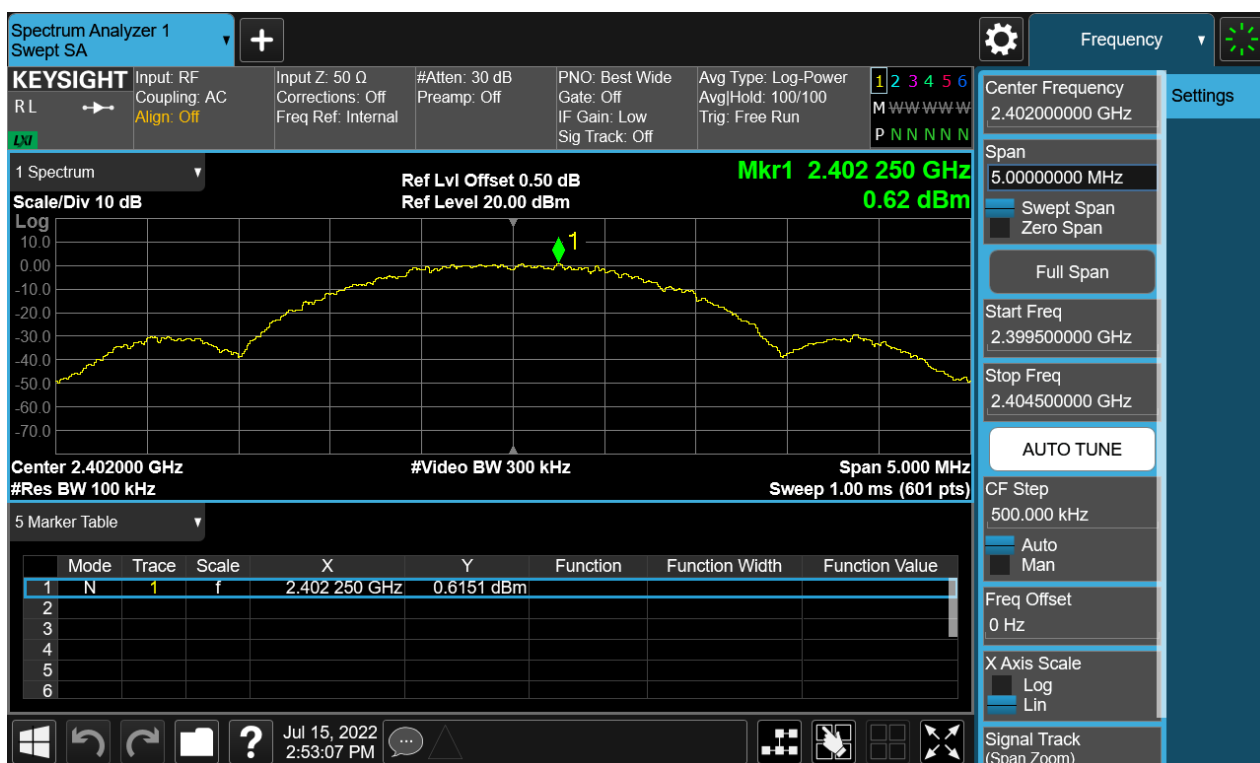


Figure 7: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE_2Mbps Carrier Level



TEST REPORT

Report No.: SHE22060072-02AE

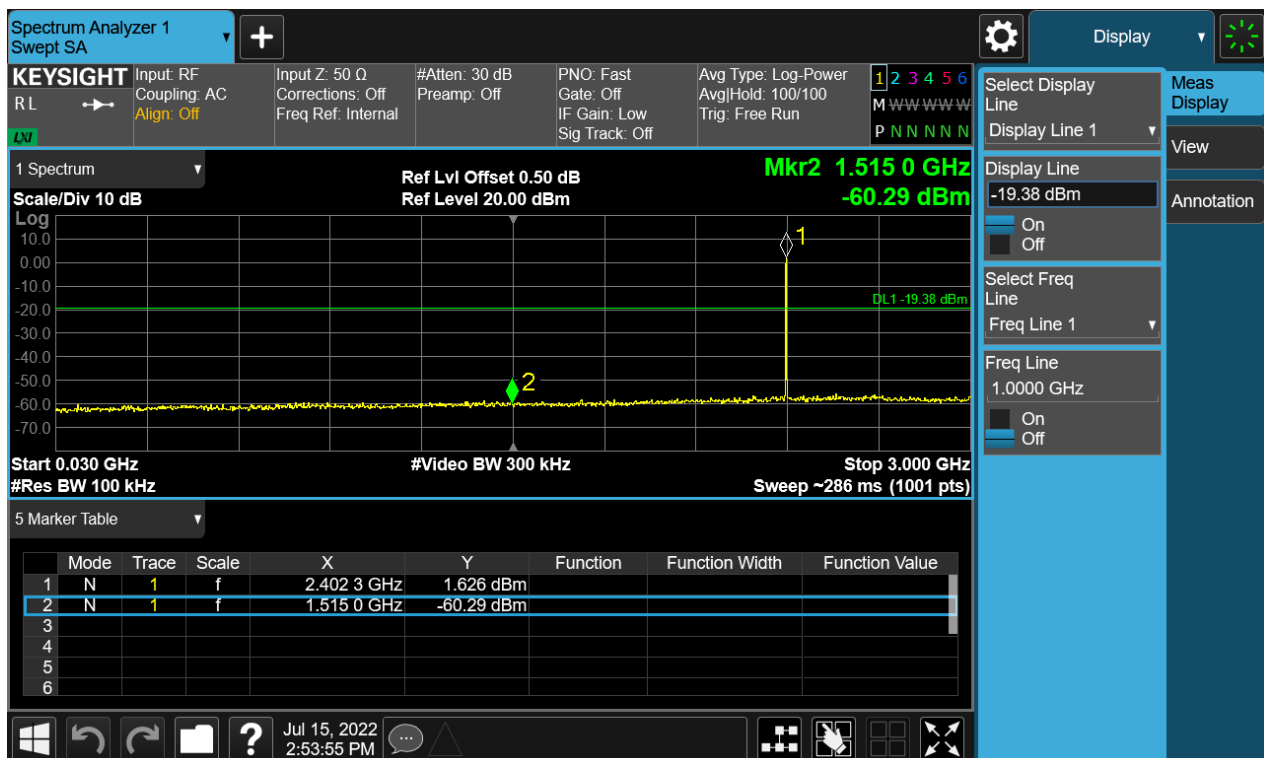
Date: 2022-07-19

Page 28 of 84

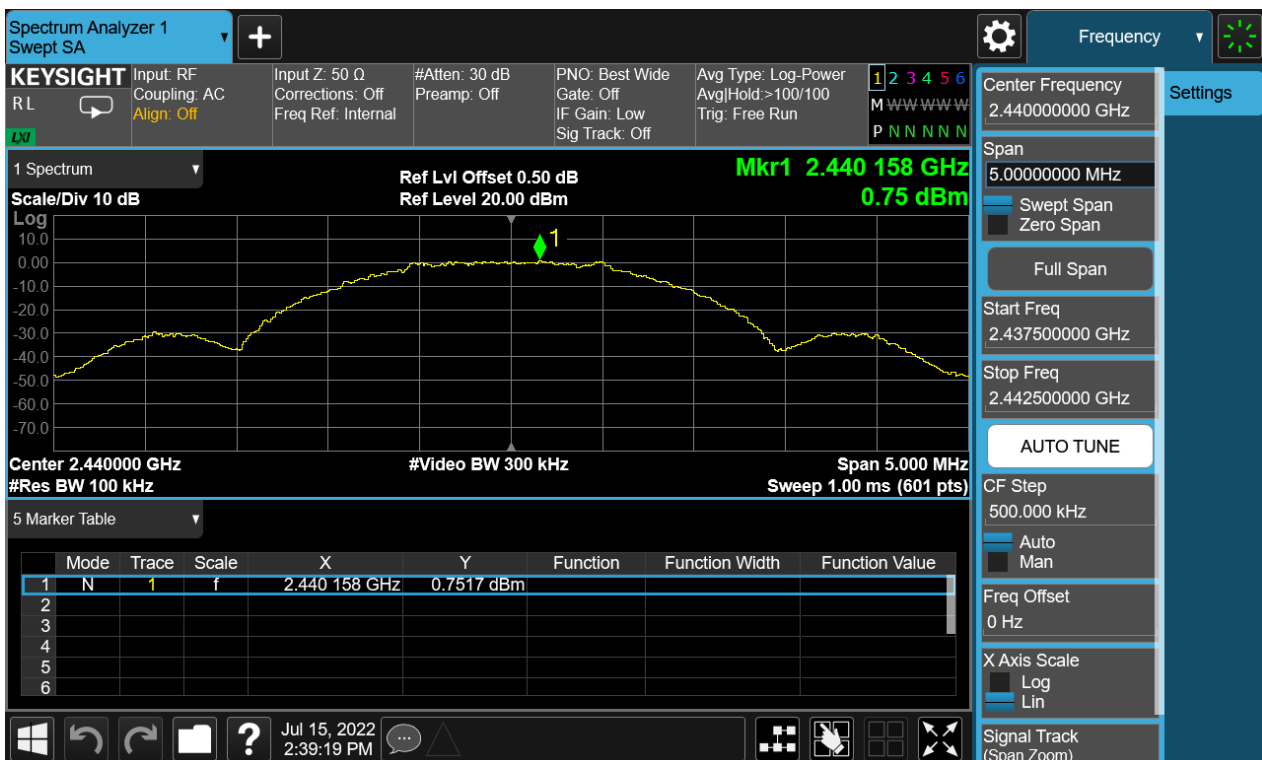
Band Edge



Conducted spurious emissions 30MHz-25GHz



Page 29 of 84



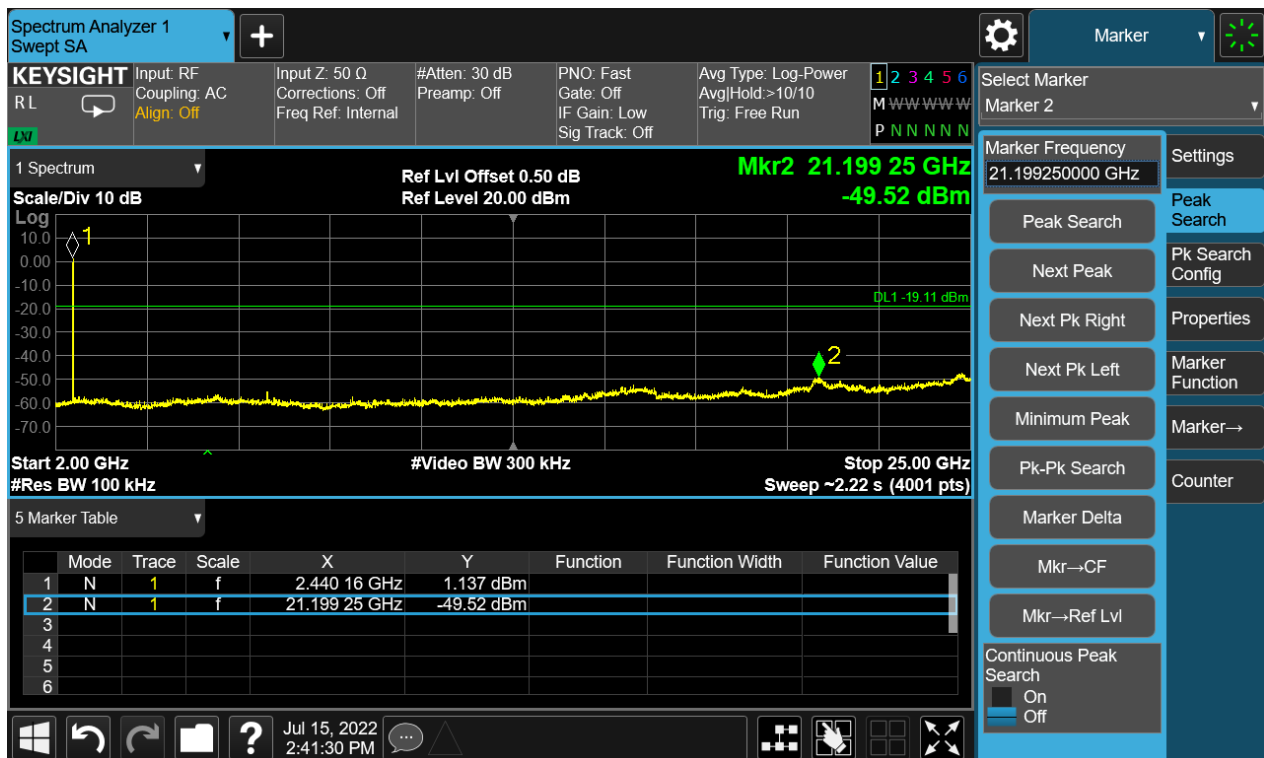
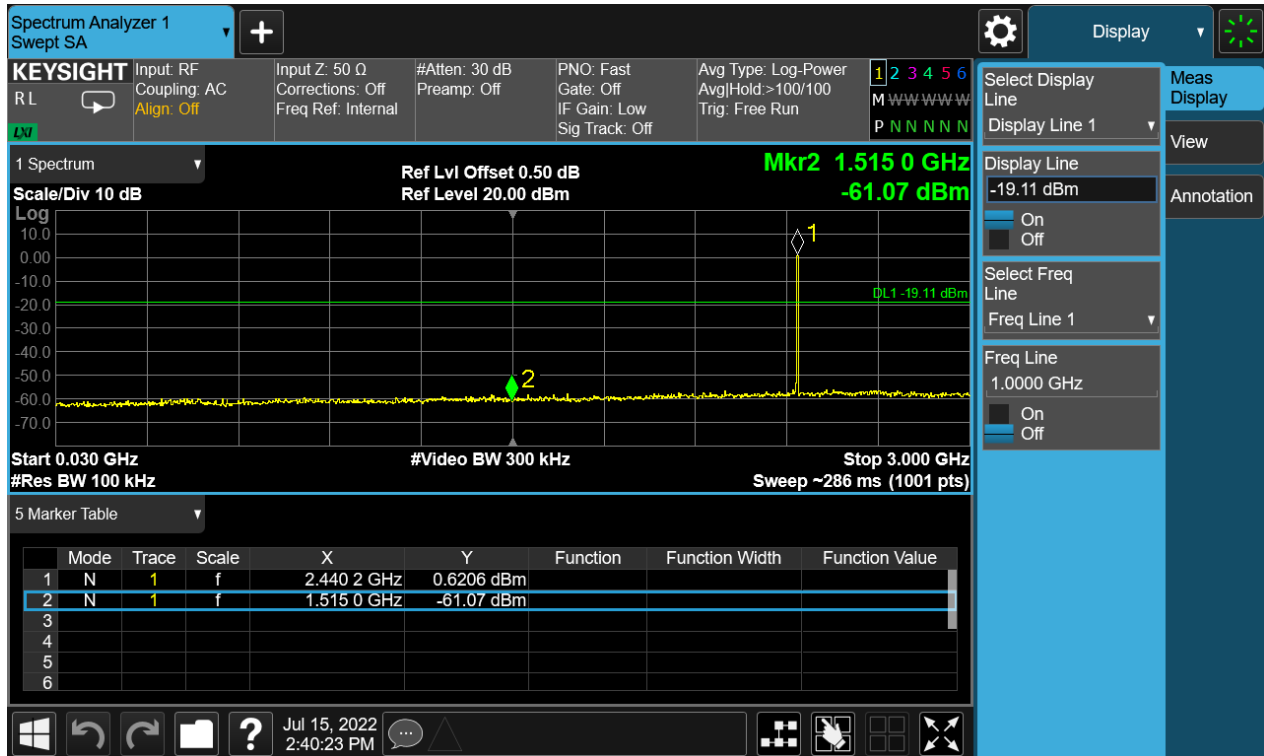
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 30 of 84

Conducted spurious emissions 30MHz-25GHz



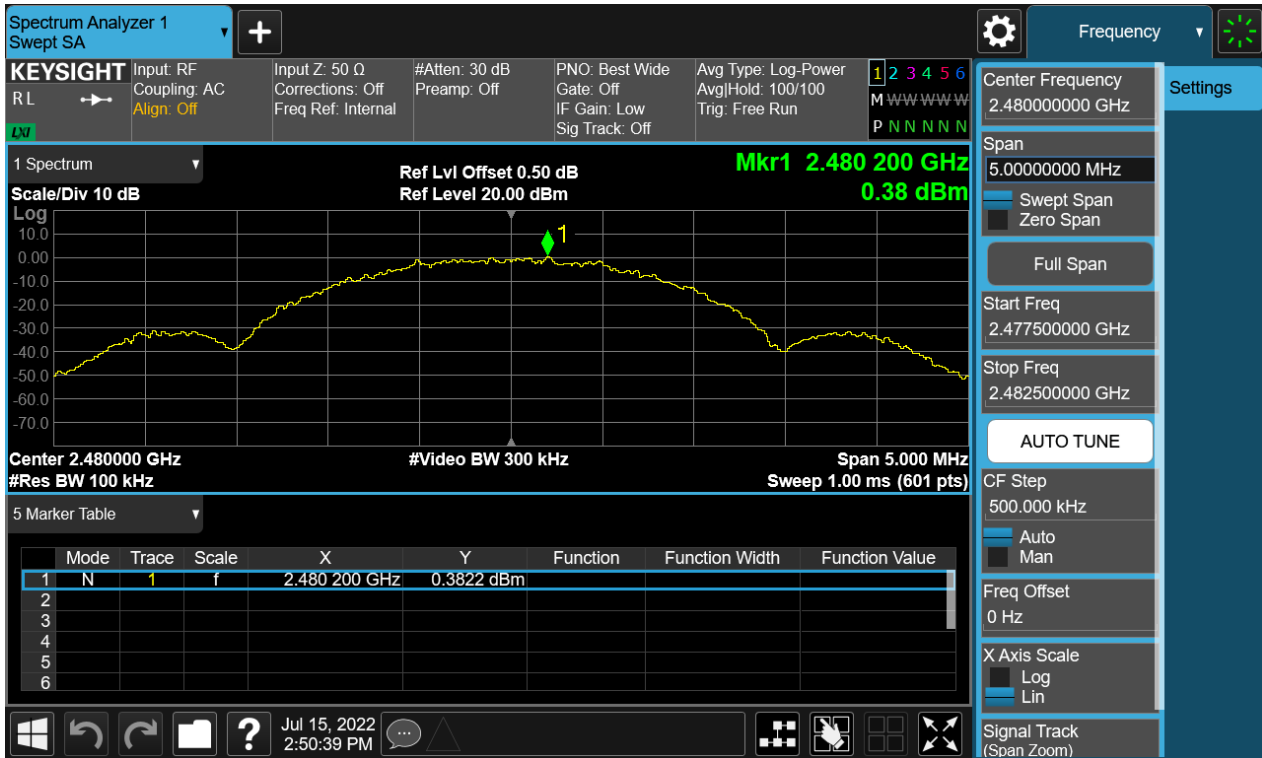
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 31 of 84

Figure 9: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE_2Mbps Carrier Level



Band Edge



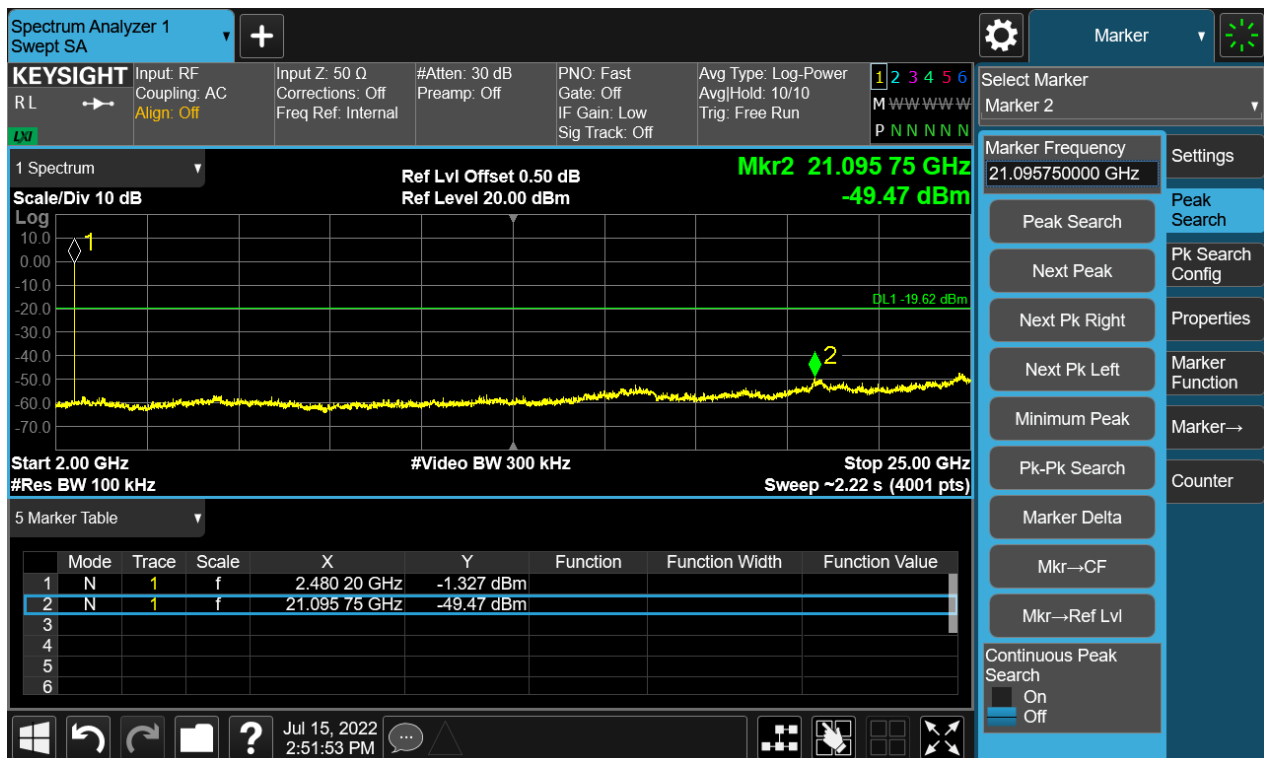
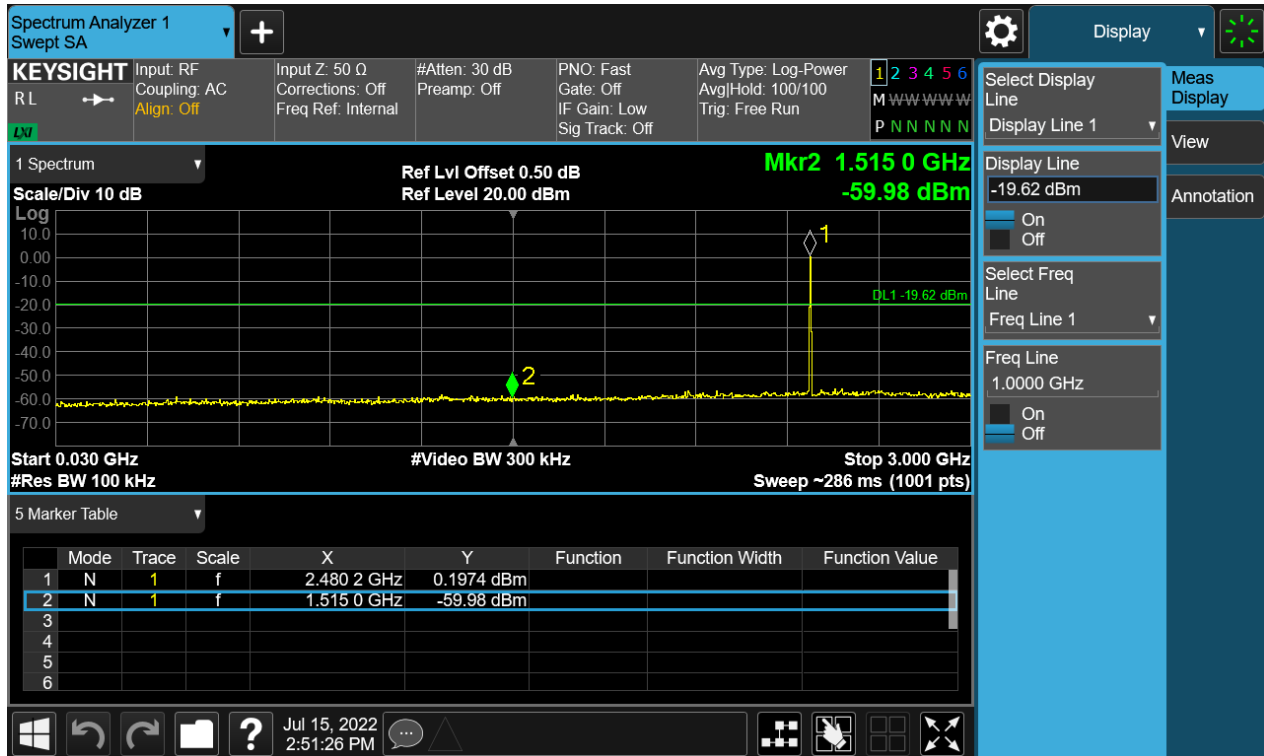
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 32 of 84

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 33 of 84

4.1.6 Radiated Spurious Emission

RESULT:

PASS

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

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a, A.1.b
Ambient temperature	: 23.1°C
Relative humidity	: 52%

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. 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.

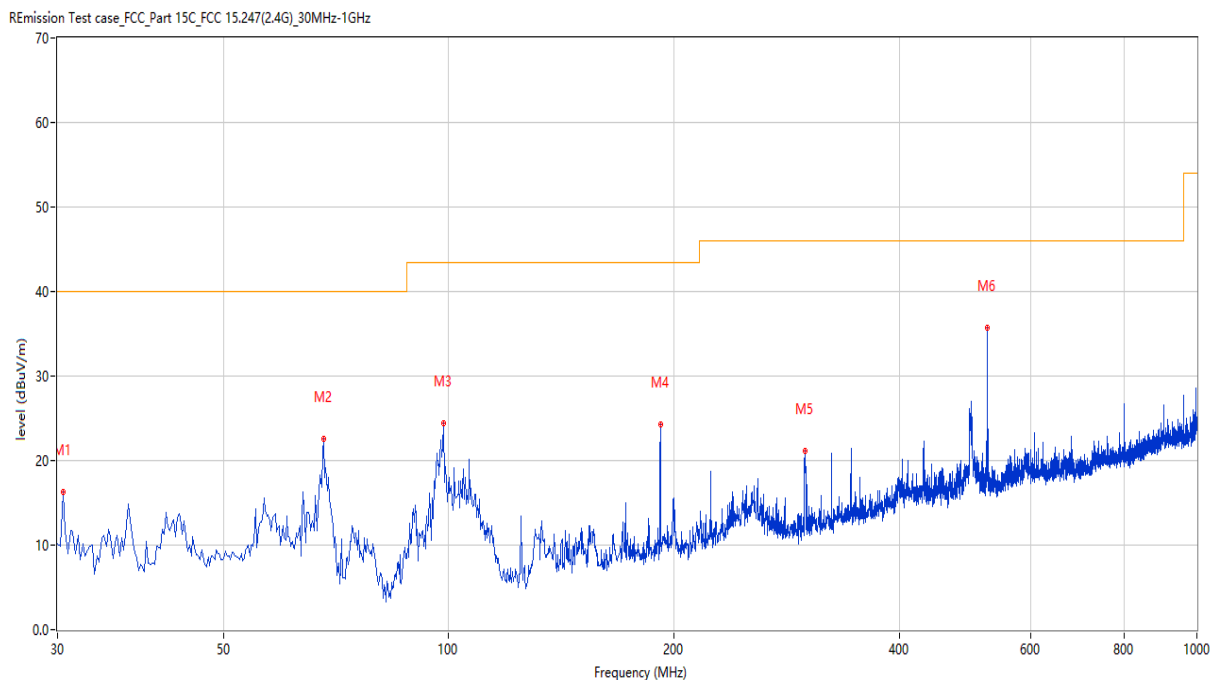
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 34 of 84

Figure 10: The plots of BLE_1Mbps_2402 Channel, Horizontal polarization_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.485	16.35	-29.66	40.0	-23.65	Peak	258.00	150	Horizontal	Pass
2	68.063	22.62	-28.67	40.0	-17.38	Peak	269.90	100	Horizontal	Pass
3	98.368	24.40	-26.77	43.5	-19.10	Peak	141.30	150	Horizontal	Pass
4	191.950	24.25	-26.70	43.5	-19.25	Peak	34.90	150	Horizontal	Pass
5	299.835	21.10	-23.77	46.0	-24.90	Peak	0.00	200	Horizontal	Pass
6	524.819	35.72	-17.96	46.0	-10.28	Peak	321.00	200	Horizontal	Pass

TEST REPORT

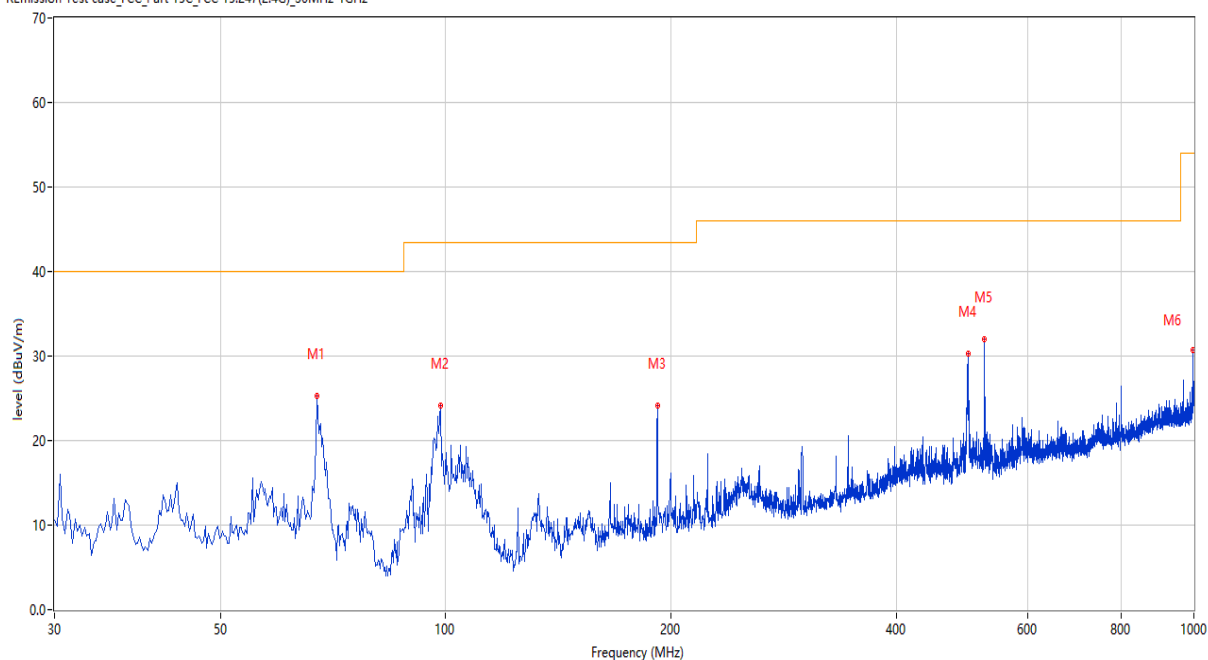
Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 35 of 84

The plots of BLE_1Mbps_2402 Channel, Vertical polarization_30MHz-1GHz

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	67.336	25.30	-28.42	40.0	-14.70	Peak	264.70	100	Vertical	Pass
2	98.368	24.13	-26.77	43.5	-19.37	Peak	360.00	200	Vertical	Pass
3	191.950	24.15	-26.70	43.5	-19.35	Peak	45.50	200	Vertical	Pass
4	498.878	30.22	-18.63	46.0	-15.78	Peak	0.00	100	Vertical	Pass
5	524.819	31.94	-17.96	46.0	-14.06	Peak	0.00	200	Vertical	Pass
6	996.848	30.78	-8.35	54.0	-23.22	Peak	0.00	150	Vertical	Pass

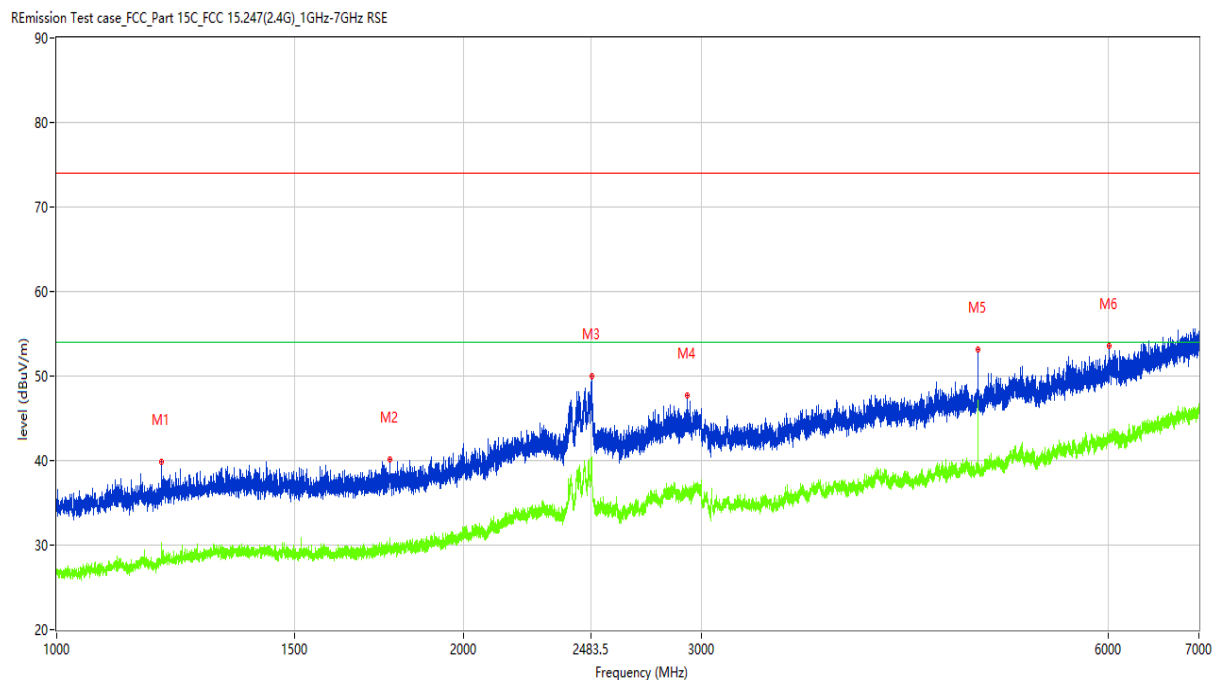
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 36 of 84

The plots of BLE_1Mbps_2402 Channel, Horizontal polarization_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.000	39.82	-13.46	74.0	-34.18	Peak	293.90	100	Horizontal	Pass
1**	1196.000	30.08	-13.46	54.0	-23.92	AV	293.90	100	Horizontal	Pass
2	1764.750	40.19	-12.26	74.0	-33.81	Peak	113.10	100	Horizontal	Pass
2**	1764.750	30.79	-12.26	54.0	-23.21	AV	113.10	100	Horizontal	Pass
3	2487.500	49.95	-1.89	74.0	-24.05	Peak	321.50	100	Horizontal	Pass
3**	2487.500	40.36	-1.89	54.0	-13.64	AV	321.50	100	Horizontal	Pass
4	2930.000	47.66	-4.31	74.0	-26.34	Peak	29.70	100	Horizontal	Pass
4**	2930.000	36.76	-4.31	54.0	-17.24	AV	29.70	100	Horizontal	Pass
5	4804.000	53.10	-0.56	74.0	-20.90	Peak	228.00	100	Horizontal	Pass
5**	4804.000	46.95	-0.56	54.0	-7.05	AV	228.00	100	Horizontal	Pass
6	6012.000	53.63	2.75	74.0	-20.37	Peak	360.00	100	Horizontal	Pass
6**	6012.000	43.19	2.75	54.0	-10.81	AV	360.00	100	Horizontal	Pass

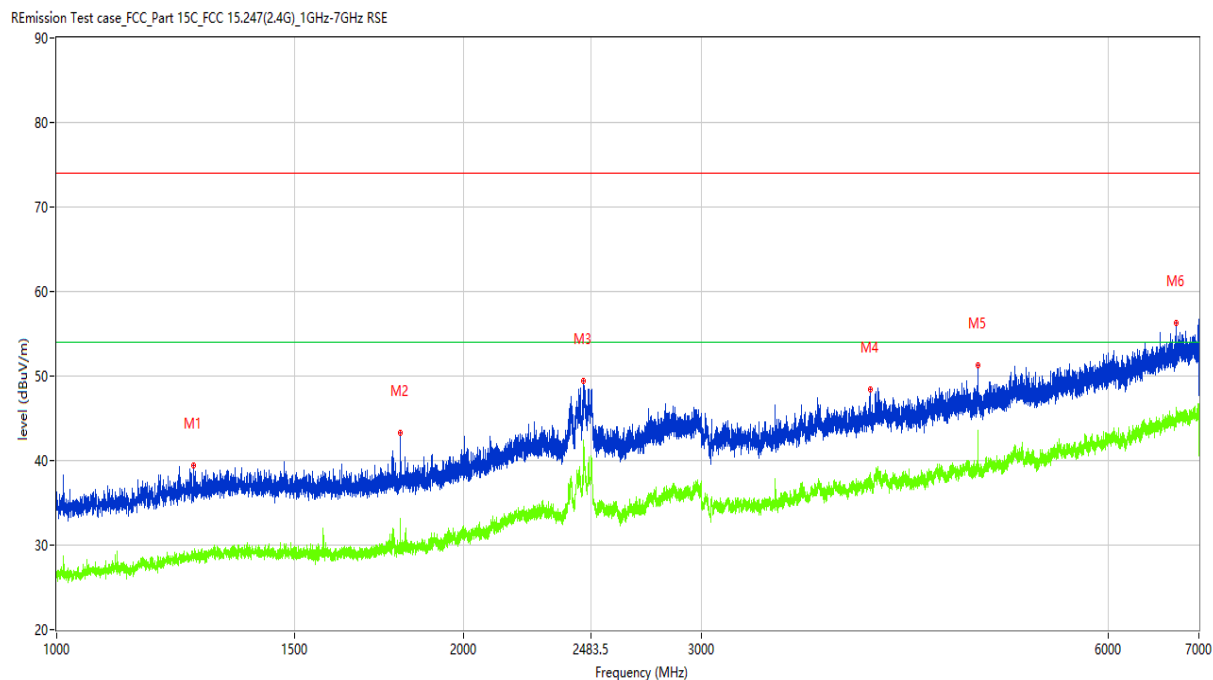
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 37 of 84

The plots of BLE_1Mbps_2402 Channel, Vertical polarization_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1262.000	39.47	-13.18	74.0	-34.53	Peak	194.00	100	Vertical	Pass
1**	1262.000	28.84	-13.18	54.0	-25.16	AV	194.00	100	Vertical	Pass
2	1796.000	43.31	-12.50	74.0	-30.69	Peak	158.60	100	Vertical	Pass
2**	1796.000	33.14	-12.50	54.0	-20.86	AV	158.60	100	Vertical	Pass
3	2454.750	49.36	-2.70	74.0	-24.64	Peak	359.00	100	Vertical	Pass
3**	2454.750	42.47	-2.70	54.0	-11.53	AV	359.00	100	Vertical	Pass
4	3998.000	48.39	-1.15	74.0	-25.61	Peak	252.30	100	Vertical	Pass
4**	3998.000	38.51	-1.15	54.0	-15.49	AV	252.30	100	Vertical	Pass
5	4804.500	51.32	-0.56	74.0	-22.68	Peak	104.10	100	Vertical	Pass
5**	4804.500	43.26	-0.56	54.0	-10.74	AV	104.10	100	Vertical	Pass
6	6736.000	56.22	4.70	74.0	-17.78	Peak	352.70	100	Vertical	Pass
6**	6736.000	44.90	4.70	54.0	-9.10	AV	352.70	100	Vertical	Pass

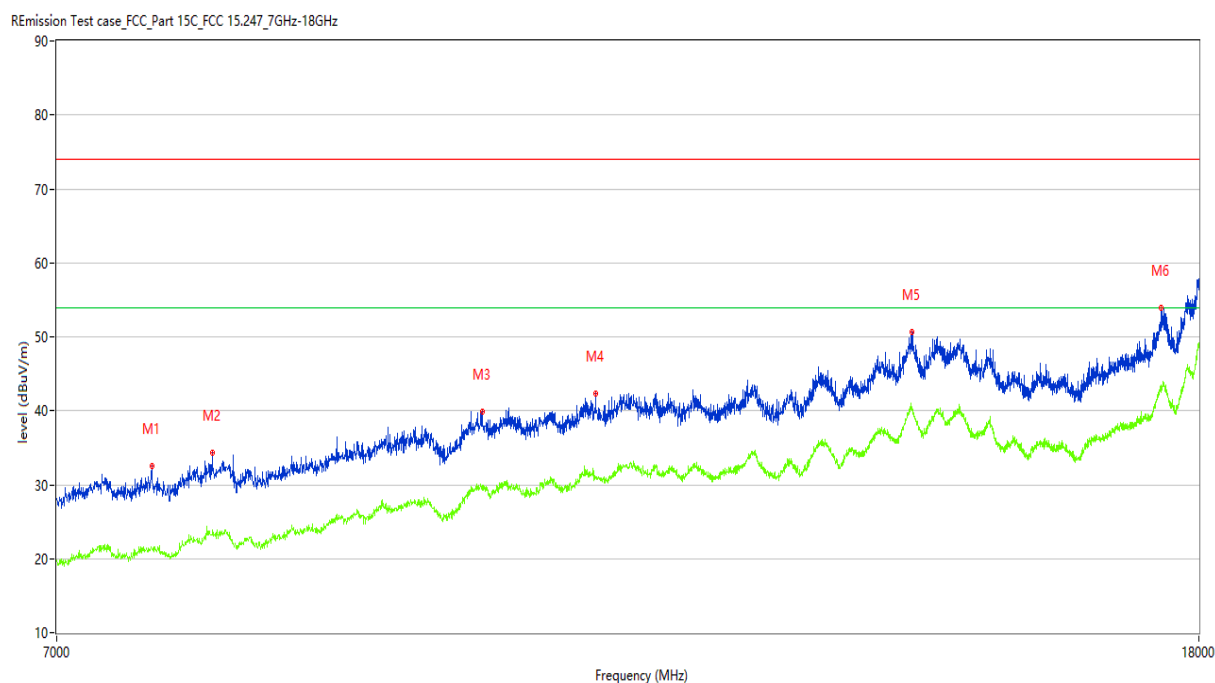
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 38 of 84

The plots of BLE_1Mbps_2402 Channel, Horizontal polarization_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7572.000	32.50	1.89	74.0	-41.50	Peak	139.60	100	Horizontal	Pass
1**	7572.000	21.20	1.89	54.0	-32.80	AV	139.60	100	Horizontal	Pass
2	7962.500	34.41	3.49	74.0	-39.59	Peak	242.30	100	Horizontal	Pass
2**	7962.500	23.57	3.49	54.0	-30.43	AV	242.30	100	Horizontal	Pass
3	9953.500	39.94	9.66	74.0	-34.06	Peak	75.60	100	Horizontal	Pass
3**	9953.500	29.85	9.66	54.0	-24.15	AV	75.60	100	Horizontal	Pass
4	10929.750	42.39	11.13	74.0	-31.61	Peak	166.40	100	Horizontal	Pass
4**	10929.750	31.02	11.13	54.0	-22.98	AV	166.40	100	Horizontal	Pass
5	14202.250	50.71	19.45	74.0	-23.29	Peak	0.50	100	Horizontal	Pass
5**	14202.250	40.21	19.45	54.0	-13.79	AV	0.50	100	Horizontal	Pass
6	17452.751	53.92	20.93	74.0	-20.08	Peak	128.50	100	Horizontal	Pass
6**	17452.751	43.12	20.93	54.0	-10.88	AV	128.50	100	Horizontal	Pass

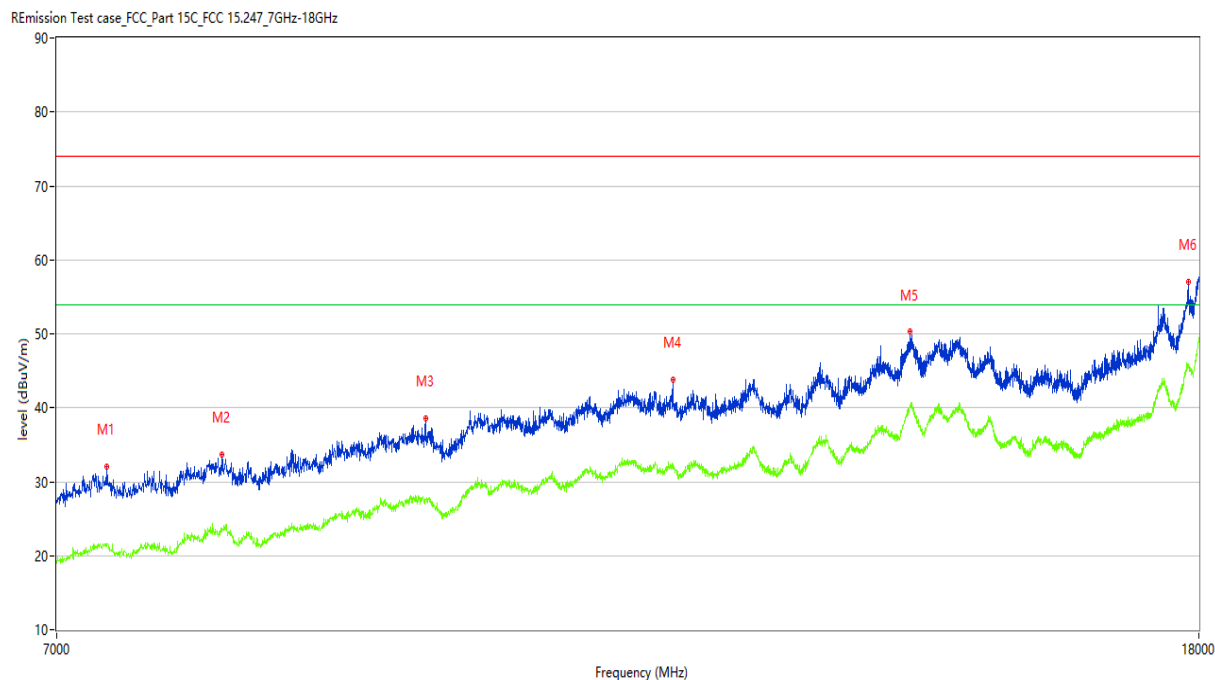
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 39 of 84

The plots of BLE_1Mbps_2402 Channel, Vertical polarization_7GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7297.000	32.03	1.74	74.0	-41.97	Peak	347.80	100	Vertical	Pass
1**	7297.000	21.59	1.74	54.0	-32.41	AV	347.80	100	Vertical	Pass
2	8023.000	33.73	4.22	74.0	-40.27	Peak	20.50	100	Vertical	Pass
2**	8023.000	23.70	4.22	54.0	-30.30	AV	20.50	100	Vertical	Pass
3	9497.000	38.63	7.88	74.0	-35.37	Peak	222.20	100	Vertical	Pass
3**	9497.000	27.58	7.88	54.0	-26.42	AV	222.20	100	Vertical	Pass
4	11650.250	43.79	11.18	74.0	-30.21	Peak	359.30	100	Vertical	Pass
4**	11650.250	32.31	11.18	54.0	-21.69	AV	359.30	100	Vertical	Pass
5	14174.750	50.31	19.34	74.0	-23.69	Peak	222.20	100	Vertical	Pass
5**	14174.750	40.44	19.34	54.0	-13.56	AV	222.20	100	Vertical	Pass
6	17840.501	57.08	22.48	74.0	-16.92	Peak	0.00	100	Vertical	Pass
6**	17840.501	45.62	22.48	54.0	-8.38	AV	0.00	100	Vertical	Pass

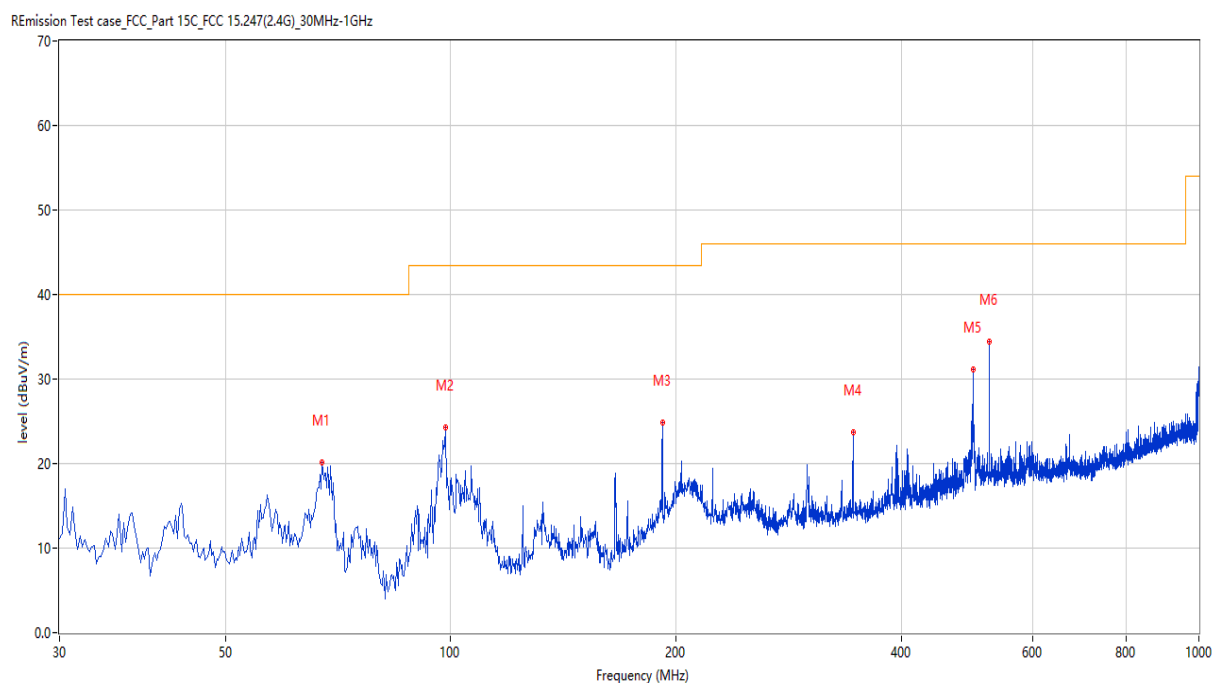
TEST REPORT

Report No.: SHE22060072-02AE

Date: 2022-07-19

Page 40 of 84

Figure 11: The plots of BLE_1Mbps_2440 Channel, Horizontal polarization_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	67.336	20.09	-28.42	40.0	-19.91	Peak	306.20	100	Horizontal	Pass
2	98.368	24.28	-26.77	43.5	-19.22	Peak	23.80	100	Horizontal	Pass
3	191.950	24.92	-26.70	43.5	-18.58	Peak	27.90	150	Horizontal	Pass
4	344.929	23.65	-21.82	46.0	-22.35	Peak	360.00	200	Horizontal	Pass
5	499.363	31.09	-18.61	46.0	-14.91	Peak	0.00	150	Horizontal	Pass
6	524.819	34.36	-17.96	46.0	-11.64	Peak	360.00	200	Horizontal	Pass