TEST REPORT

Applicant	:	Ehong Technology Co.,Ltd
Address of Applicant	:	Room 501, No.485 Xingmei Road, Minhang Dis,Shanghai, China.
Product Name	:	BLE Module
Brand Name	:	Ehong
Model Name	:	EH-MC35, EH-MC35B
Sample Acquisition Method	:	Sent by Client
Sample No.	:	E24050057-01#01(Radiation Sample-EH-MC35) E24050057-01#02(Radiation Sample-EH-MC35B) E24050057-01#03(Conducted Sample)
FCC ID	:	2ACCRMC35
ISED Number	:	20625-MC35
Standards	:	FCC CFR47 Part 15, Subpart C RSS-Gen (Issue 5, Amd.2-Feb 2021) RSS-247 (Issue 3, August 2023)
Date of Receipt	:	2024-05-22
Date of Test	:	2024-06-18~ 2024-06-25
Date of Issue	:	2024-06-27

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 (Erik Yang) Reviewed by: Jennifer Zhou (Jennifer Zhou) Approved by: Echo Mu (Authorized signatory: Echo Mu)

Contents

1 General Information

1.1 Testing Laboratory

ISED CAB identifier #	CN0081
Company number #	25174
Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

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

1.3 Details of EUT

Product Name	BLE Module
Brand Name	Ehong
Test Model Name	EH-MC35
Series Model Name	EH-MC35B
Difference Description	All the same except for the antenna type: EH-MC35 Model is the PCB antenna EH-MC35B Model is the external antenna
FCC ID	2ACCRMC35
ISED Number	20625-MC35
Mode of Operation	Bluetooth BLE Version 5.3
Frequency Range	2402MHz ~ 2480MHz
Number of Channels	40 (at intervals of 2 MHz)
Modulation Type	BLE ☒GFSK 1Mbps ☒GFSK 2Mbps
Max RF Output Power-Conducted	4.60dBm
Antenna Type	EH-MC35 (PCB Antenna) EH-MC35B (External Antenna)

Antenna Gain	EH-MC35 (0.40dBi) EH-MC35B (1.99dBi)
Extreme Temperature Range	-40℃~ +85℃
Test Voltage	DC 3.3V
Hardware Version	V1.0
Software Version	V1.0
RF power setting in TEST SW	662x_FCC_Rev2.1_Power level setting_Default

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
RSS-Gen (Issue 5, Amd.2-Feb 2021)	General Requirements for Compliance of Radio Apparatus
RSS-247 (Issue 3, August 2023)	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) 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	ISED Rules	Result
Antenna Requirement	FCC Part 15.247(b)(4), Part 15.203	RSS-247 5.4(f) RSS-GEN 6.8	PASS
Maximum peak conducted output power and E.I.R.P	FCC Part 15.247(b)(3)	RSS-247 5.4(d)	PASS
6dB Bandwidth and 99% Bandwidth	FCC Part 15.247(a)(2)	RSS-247 5.2(a) RSS-Gen 6.7	PASS
Maximum conducted output power spectral density	FCC Part 15.247(e)	RSS-247 5.2(b)	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	RSS-247 5.5	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.9	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.10	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	RSS-Gen 8.8	PASS

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	2023-07-27	2024-07-26
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2024-06-04	2025-06-03
Signal Generator	Rohde & Schwarz	SMR27	100184	2023-07-27	2024-07-26
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2024-06-05	2025-06-04
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2024-06-04	2025-06-03
V-network	SCHWARZBECK	NSLK 8127	8127-902	2024-06-05	2025-06-04
Attenuator	SCHWARZBECK	VTSD 9561-FN	/	2024-06-05	2025-06-04
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2023-03-22	2025-03-21
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2023-06-13	2025-06-12
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2023-06-09	2025-06-08
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2023-06-18	2025-06-17
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2024-06-04	2025-06-03
EMC chamber 9*6*6(L*W*H)	CHANGNING	966	N/A	2023-06-09	2025-06-08
Shielded Enclosure 8*5*4(L*W*H)	CHANGNING	854	N/A	2023-06-09	2025-06-08
Test Software	BL	BL410_E	Version:2.1.1.436	N/A	N/A
Test Software	BL	BL410_R	Version:2.1.1.409	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 ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	9KHz – 30MHz	± 3.42 dB
	30 MHz – 1GHz	± 5.01 dB
	> 1GHz	± 5.21 dB
Conducted Emission on AC Mains	150kHz-30MHz	± 2.68 dB
Occupied Channel Bandwidth		±5 %
Maximum Conducted Output Power and E.I.R.P		±0.64 dB
Maximum Conducted Output Power Spectral Density		±1.18 dB

3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitting 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

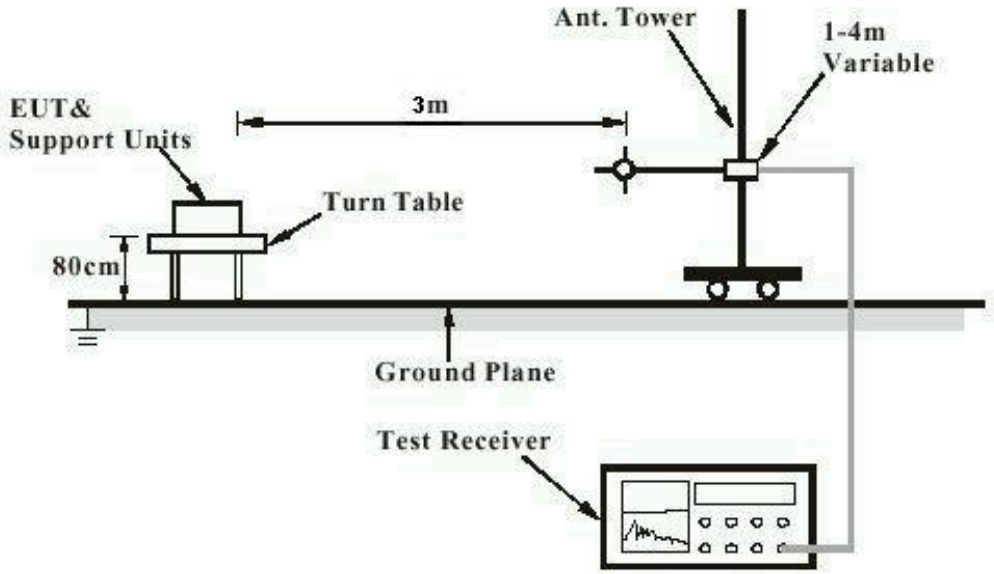
Description	Manufacturer	Model Name	Serial No.
Laptop 1	Lenovo	TP00083A	PF-0PRDGN
AC Adapter	Lenovo	ADLX45NDC3A	8SSA10M42787D1SG81L0B9F
Laptop 2	HP	HP ZHAN 66 Pro G1	5CD7438R1J
USB Cable	N/A	N/A	1.00m Unshielded

3.3 Support Software

Description	Manufacturer	Software Name
Software	N/A	662x_FCC_Rev2.1

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 Conduction Measurement

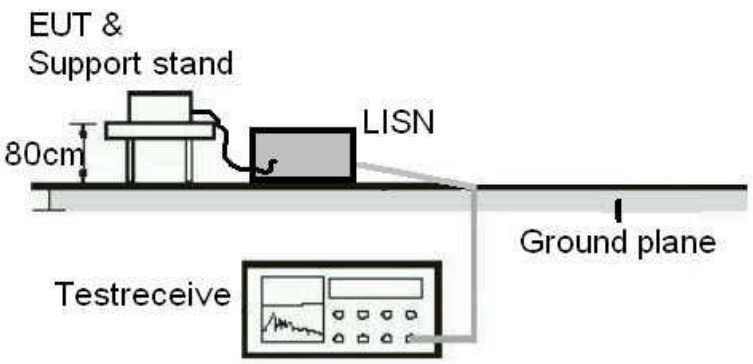
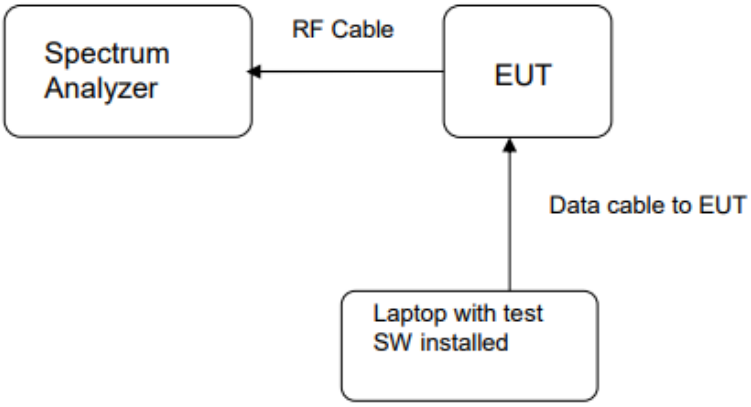


Diagram of Measurement Equipment Configuration for Transmitter Test



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 RSS-247 5.4(f), RSS-GEN 6.8
Requirement	:	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 use of a standard antenna jack or electrical connector is prohibited. In addition, If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to the manufacturer declaration, EH-MC35 model has an antenna with a directional gain of 0.40dBi. The antenna is PCB Antenna with no possibility of replacement with a non-approved antenna by the end-user. Series Model EH-MC35B has an antenna with a directional gain of 1.99dBi. The antenna is External antenna with no possibility of replacement with a non-approved antenna by the end-user.
The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
Therefore, the EUT is considered to comply with this provision.

4.1.2 Maximum peak conducted output power and E.I.R.P

RESULT: **PASS**

Test standard : FCC Part 15.247(b)(3), RSS-247 5.4(d)
Requirement : ANSI C63.10-2013 clause 11.9.1.1,
KDB 558074 D01 v05r02, Clause 8.3.1
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 23.2°C
Relative humidity : 51%

Table 1: Maximum peak conducted output power

Test Mode	Test Channel (MHz)	Maximum peak conducted output power		Limit (W)
		(dBm)	(mW)	
BLE-1Mbps	2402	4.32	2.70	< 1
	2440	4.30	2.69	
	2480	4.43	2.77	
BLE-2Mbps	2402	4.34	2.72	< 1
	2440	4.50	2.82	
	2480	4.60	2.88	

Table 2: E.I.R.P_EH-MC35

Test Mode	Test Channel (MHz)	E.I.R.P		Limit (W)
		(dBm)	(mW)	
BLE-1Mbps	2402	4.72	2.96	< 4
	2440	4.70	2.95	
	2480	4.83	3.04	
BLE-2Mbps	2402	4.74	2.98	
	2440	4.90	3.09	
	2480	5.00	3.16	

Note: The antenna gain is 0.40dBi

E.I.R.P= peak conducted output power+antenna gain

Table 3: E.I.R.P_EH-MC35B

Test Mode	Test Channel (MHz)	E.I.R.P		Limit (W)
		(dBm)	(mW)	
BLE-1Mbps	2402	6.31	4.28	< 4
	2440	6.29	4.26	
	2480	6.42	4.39	
BLE-2Mbps	2402	6.33	4.30	
	2440	6.49	4.46	
	2480	6.59	4.56	

Note: The antenna gain is 1.99dBi

E.I.R.P= peak conducted output power+antenna gain

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

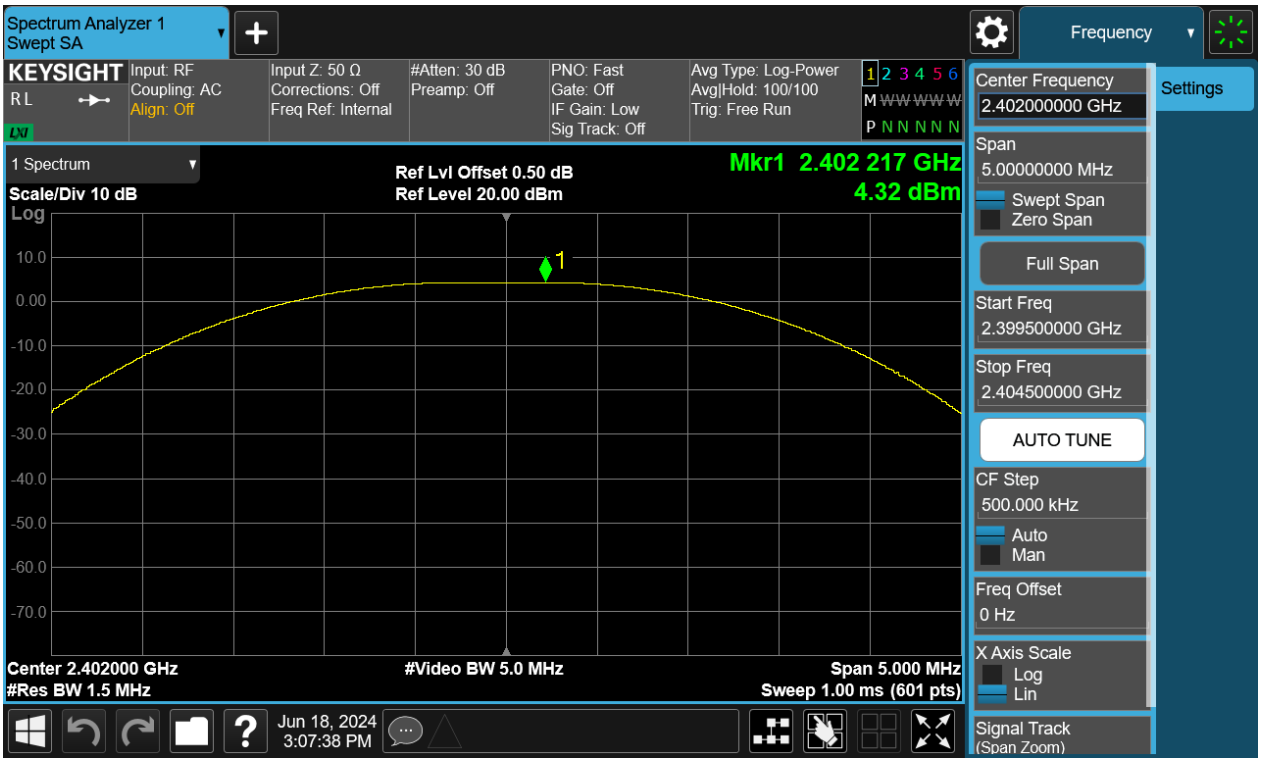


Figure 2: Peak Output Power, 2440MHz, BLE-1Mbps

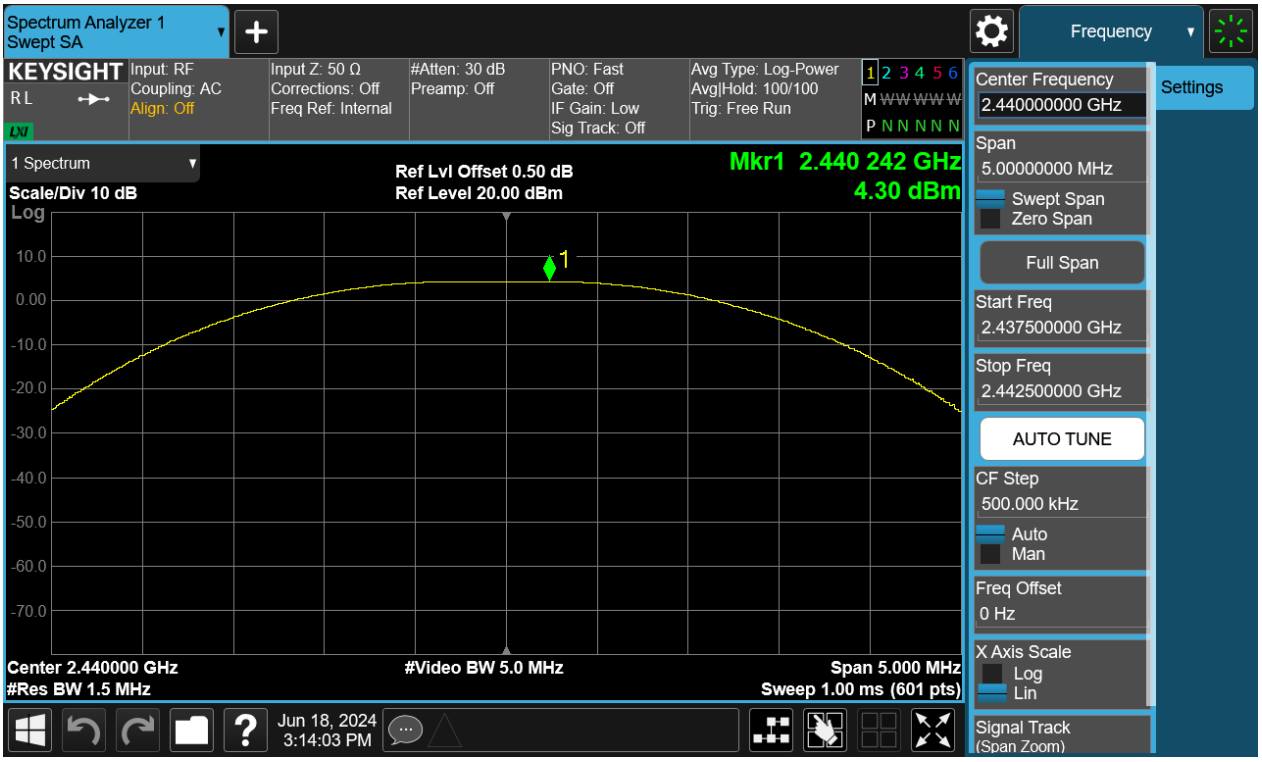


Figure 3: Peak Output Power, 2480MHz, BLE-1Mbps

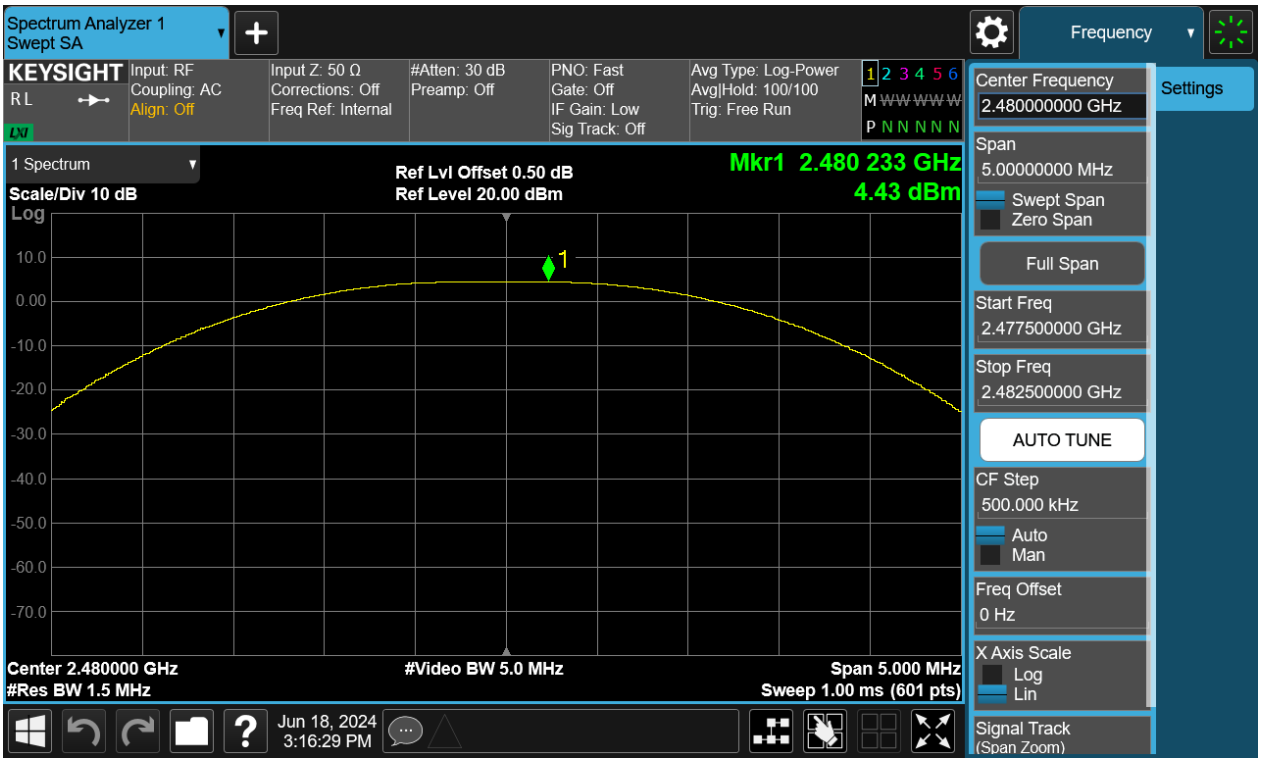


Figure 4: Peak Output Power, 2402MHz, BLE-2Mbps

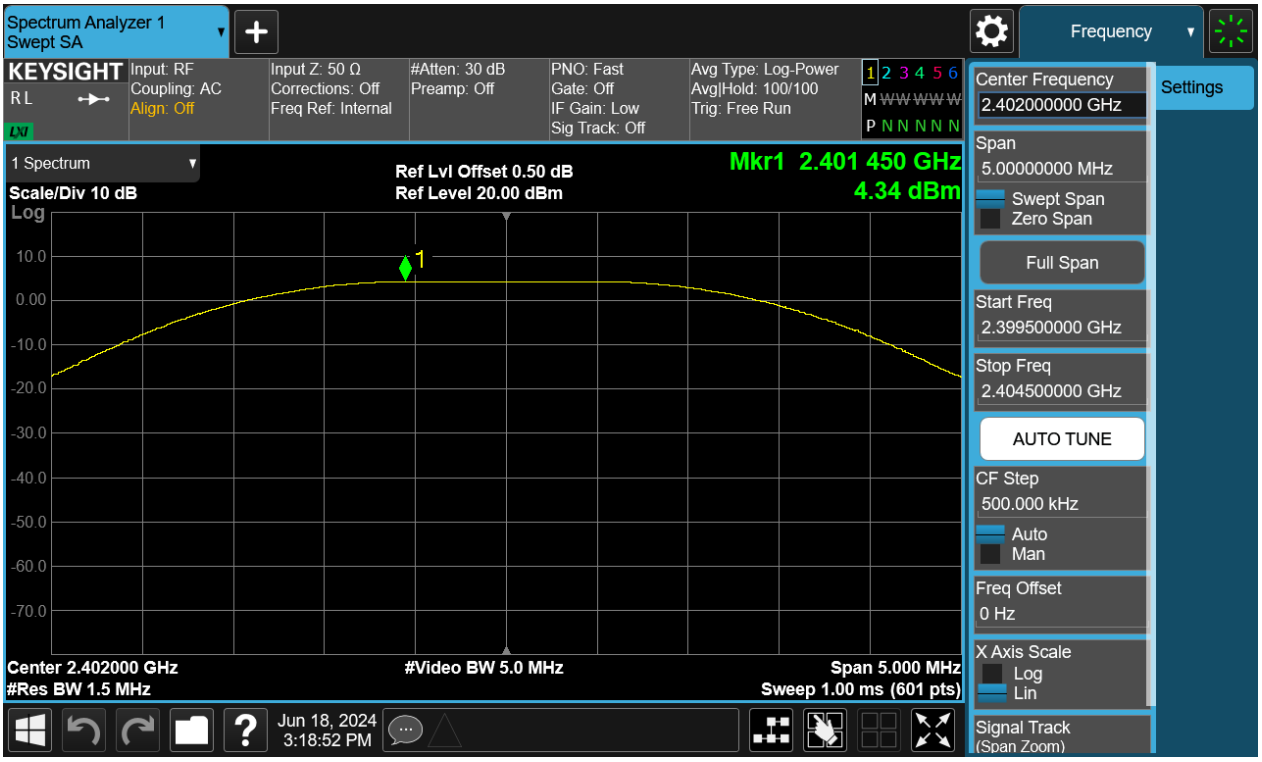
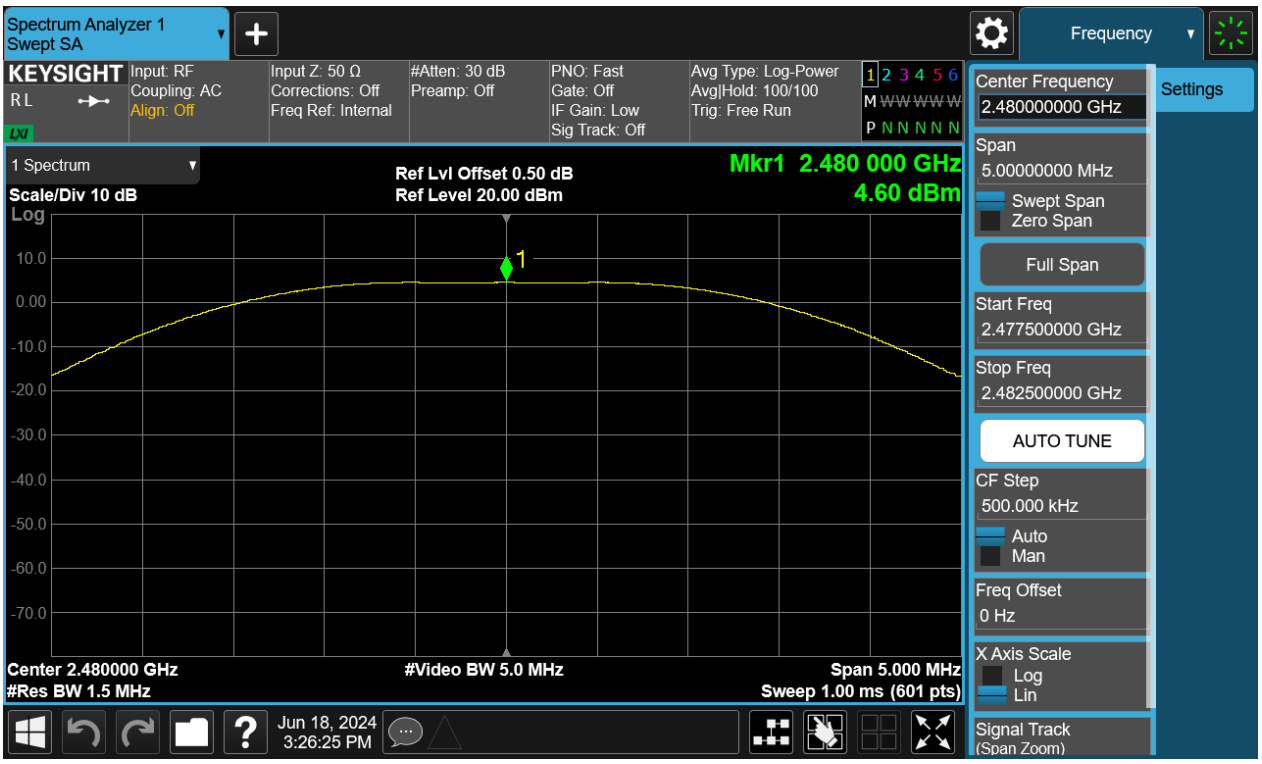


Figure 5: Peak Output Power, 2440MHz, BLE-2Mbps

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



4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT: **PASS**

Test standard	:	FCC Part 15.247(a)(2), RSS-247 5.2(a) RSS-Gen 6.7
Requirement	:	ANSI C63.10-2013 clause 11.8.1, KDB 558074 D01 v05r02, Clause 8.2
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/Middle/High
Operation Mode	:	A.1.a
Ambient temperature	:	23.2°C
Relative humidity	:	51%

Table 3: 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth Limit
BLE-1Mbps	2402	0.6855	1.0099	>0.5 MHz
	2440	0.6839	1.0076	
	2480	0.6645	1.0140	
BLE-2Mbps	2402	1.1570	2.0089	
	2440	1.1420	2.0042	
	2480	1.1750	2.0215	

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

99% Bandwidth, 2402MHz, BLE-1Mbps

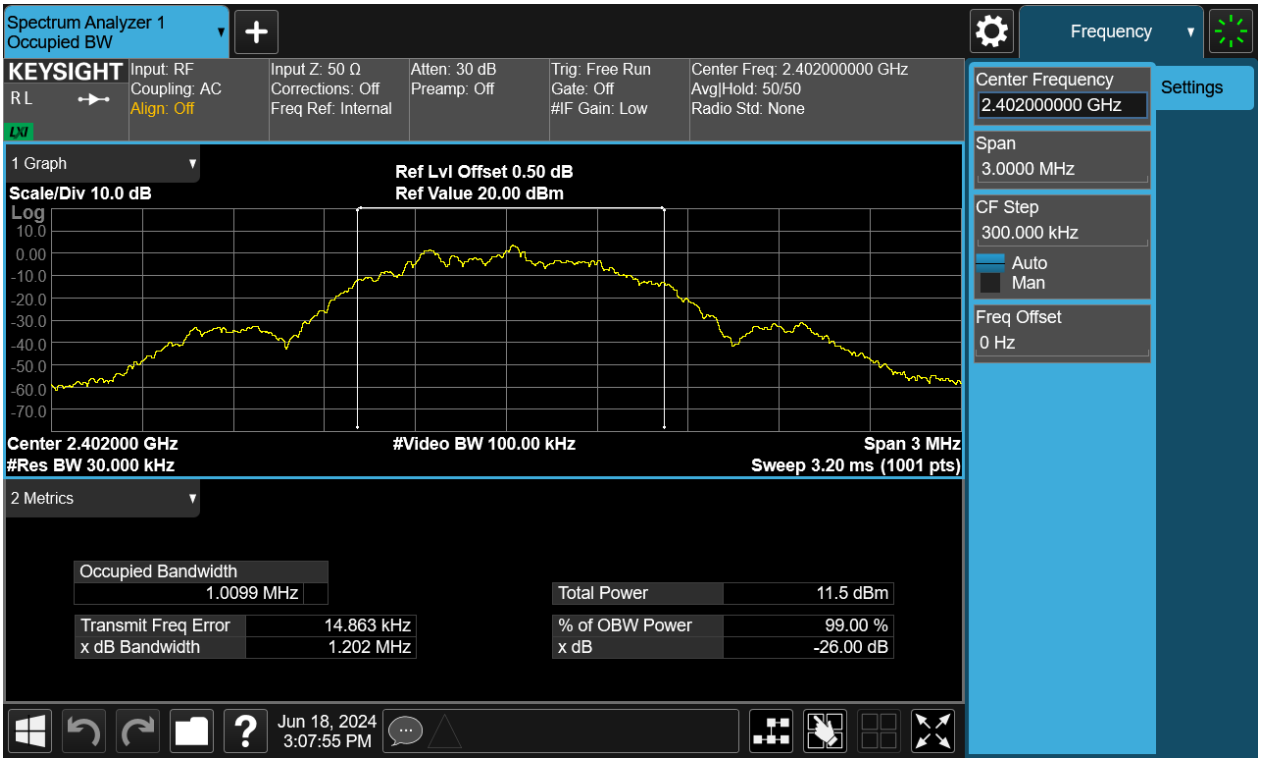


Figure 8: 6dB Bandwidth, 2440MHz, BLE-1Mbps

99% Bandwidth, 2440MHz, BLE-1Mbps

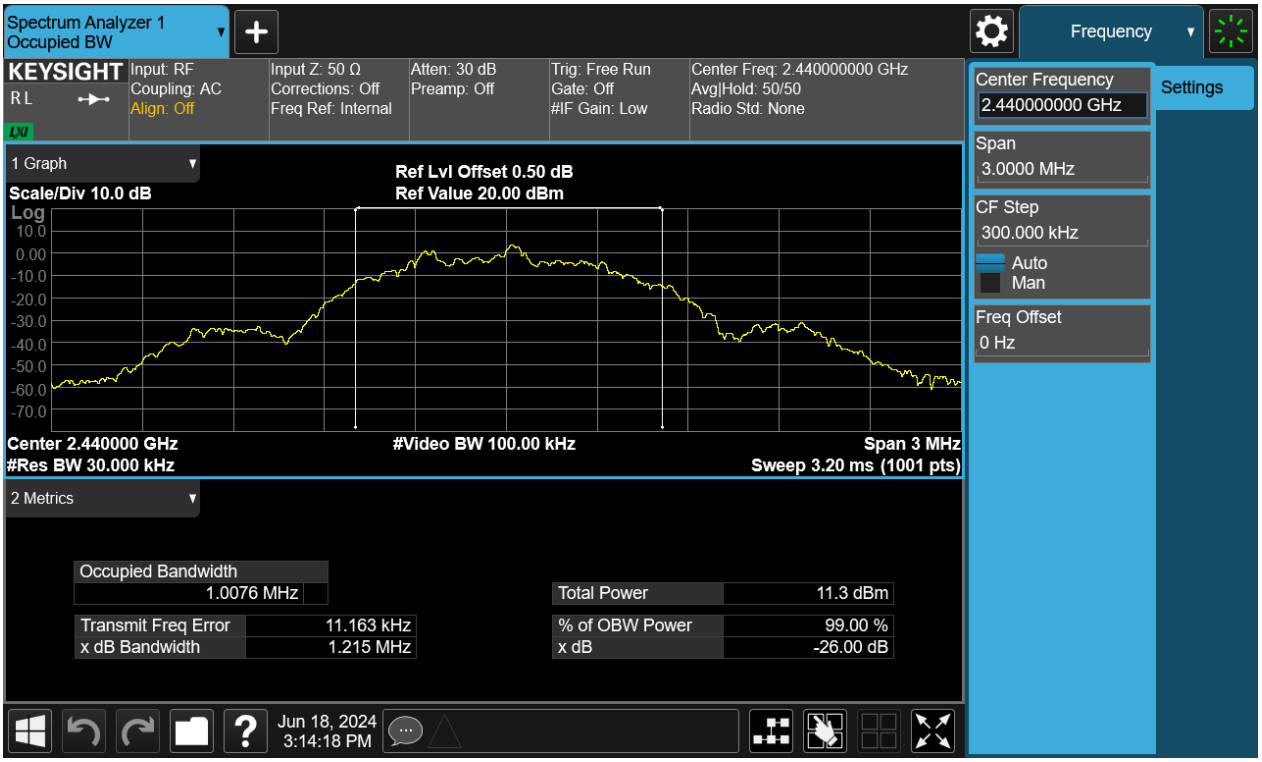


Figure 9: 6dB Bandwidth, 2480MHz, BLE-1Mbps

99% Bandwidth, 2480MHz, BLE-1Mbps

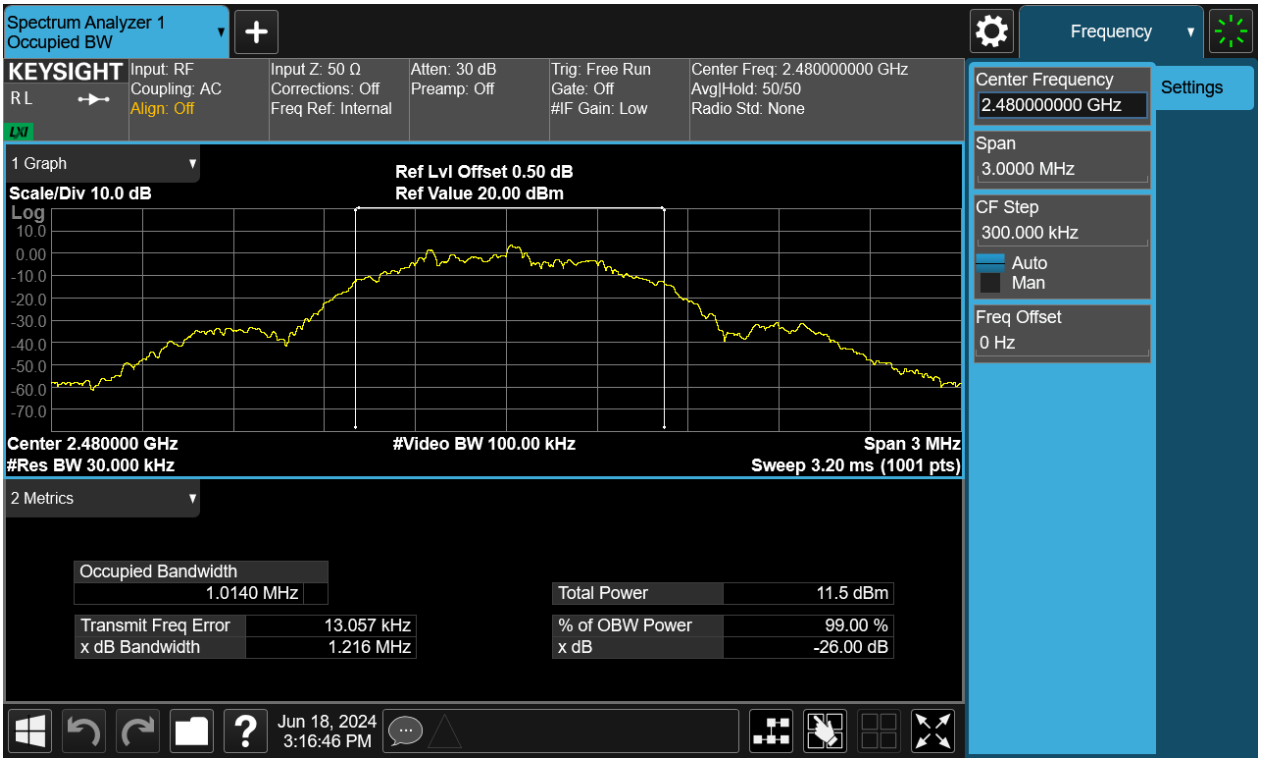
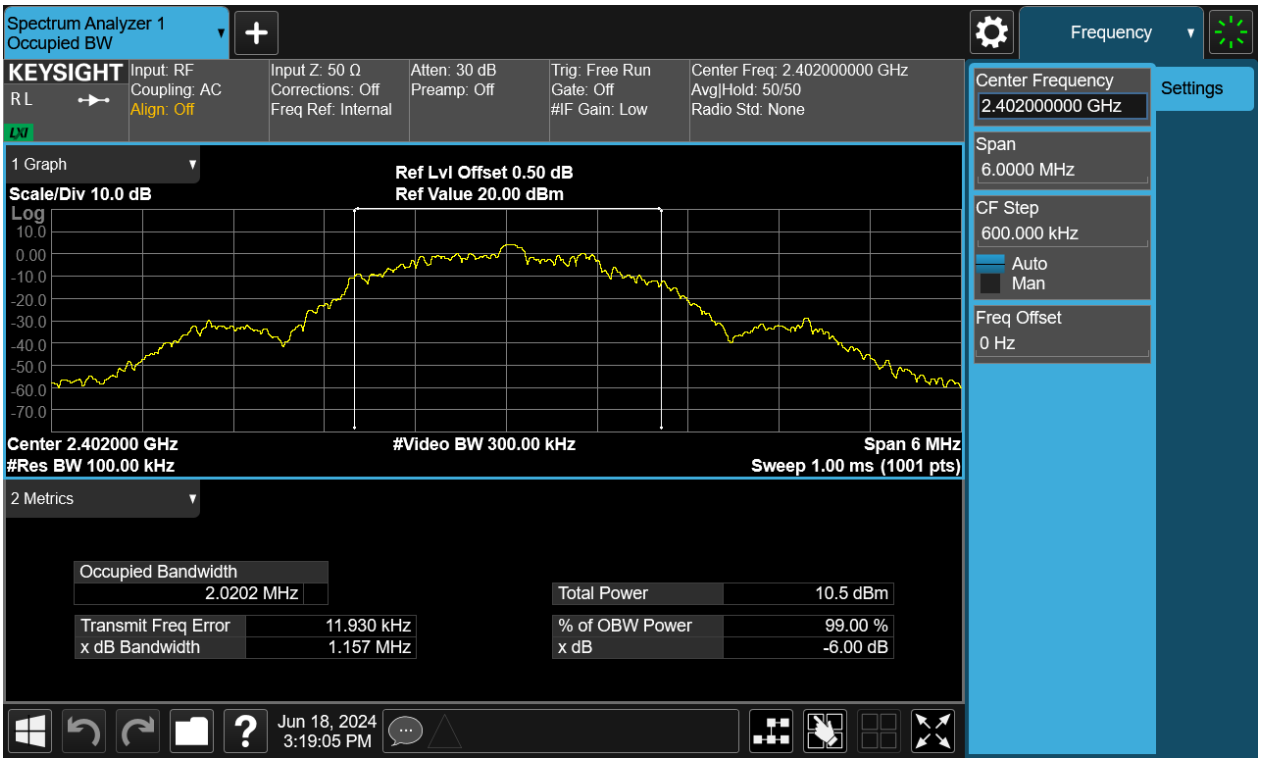


Figure 10: 6dB Bandwidth, 2402MHz, BLE-2Mbps



99% Bandwidth, 2402MHz, BLE-2Mbps

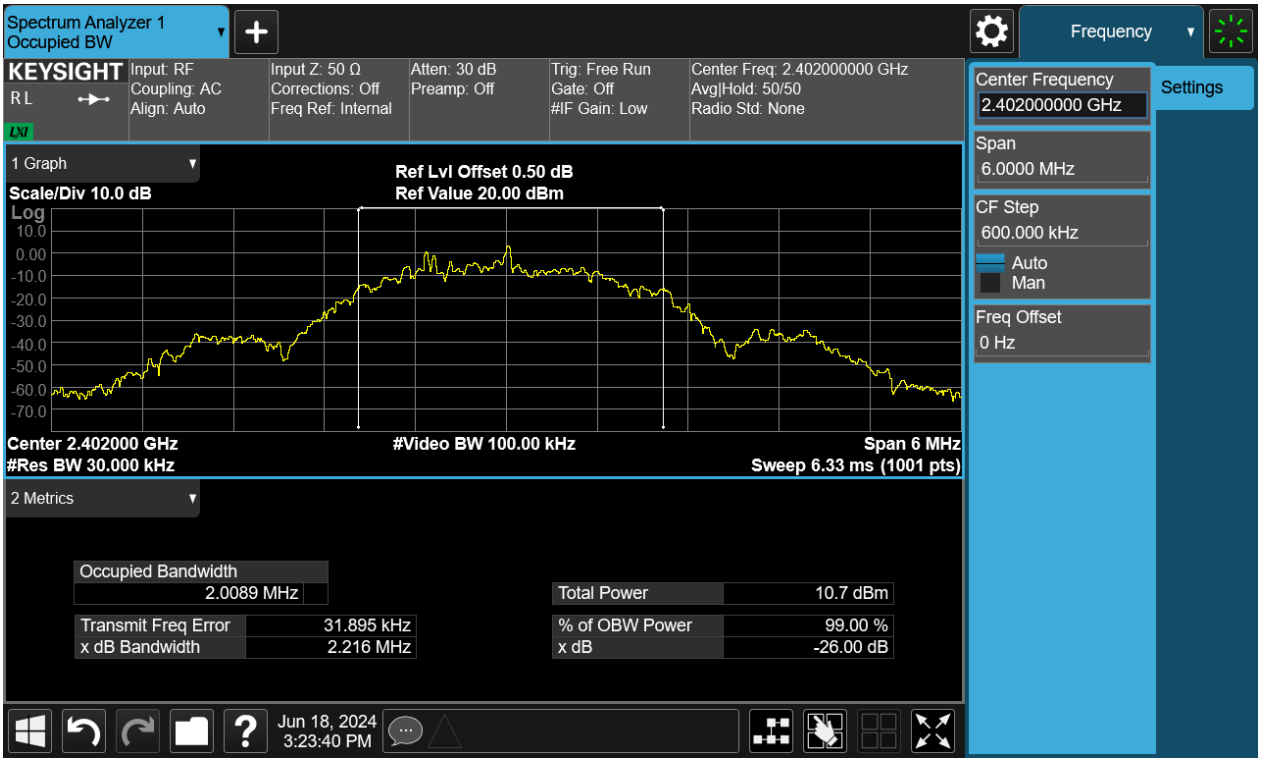
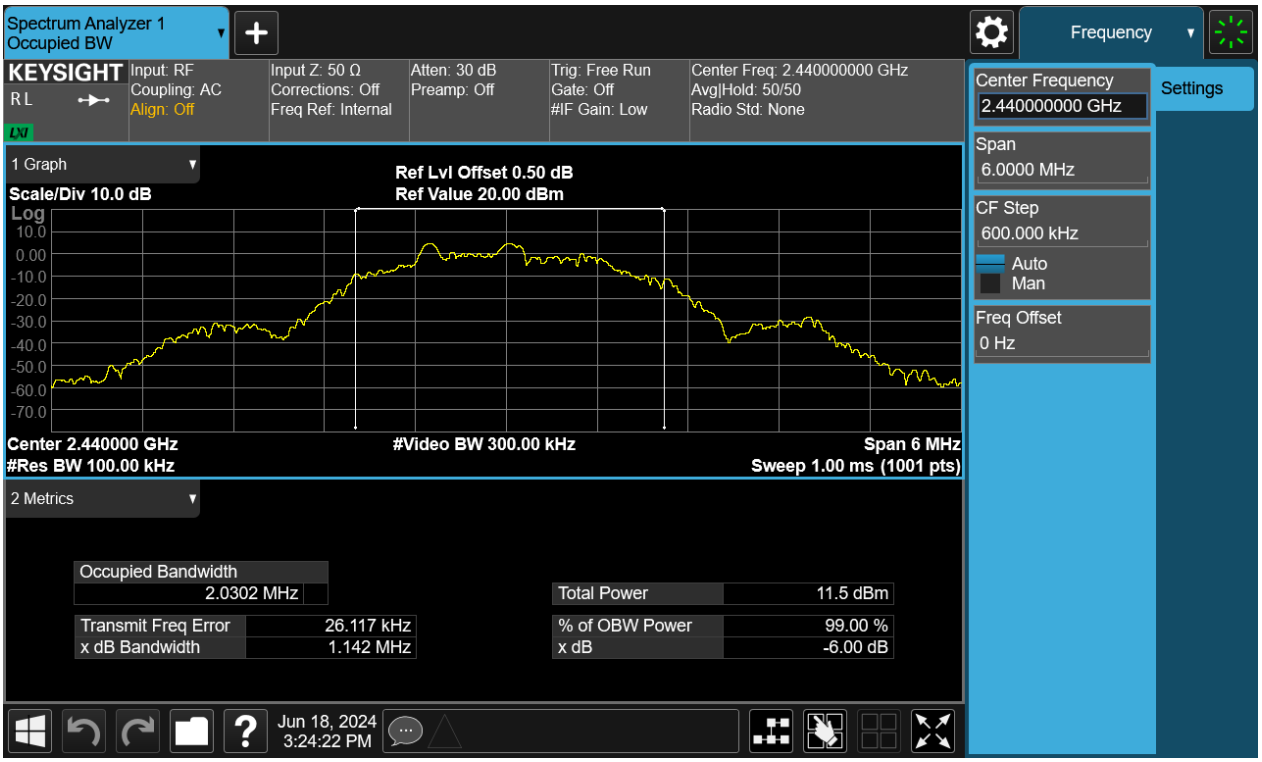


Figure 11: 6dB Bandwidth, 2440MHz, BLE-2Mbps



99% Bandwidth, 2440MHz, BLE-2Mbps

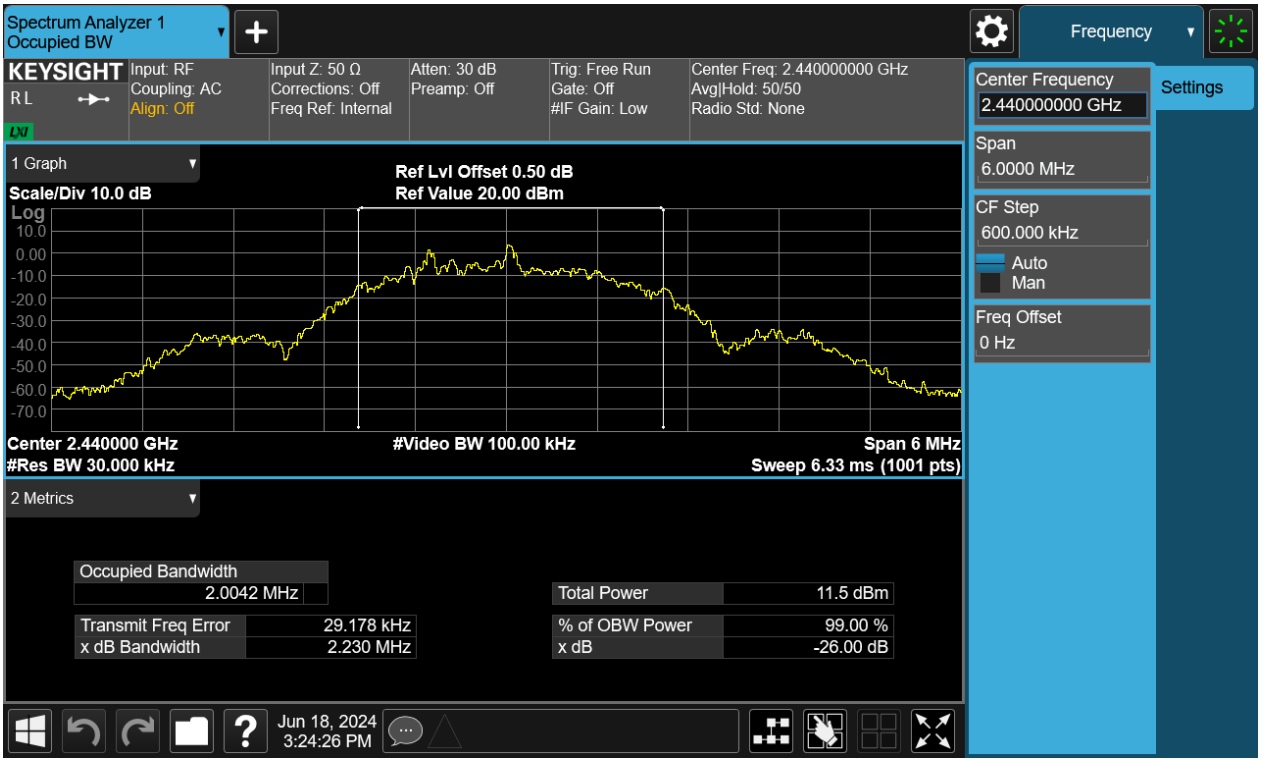
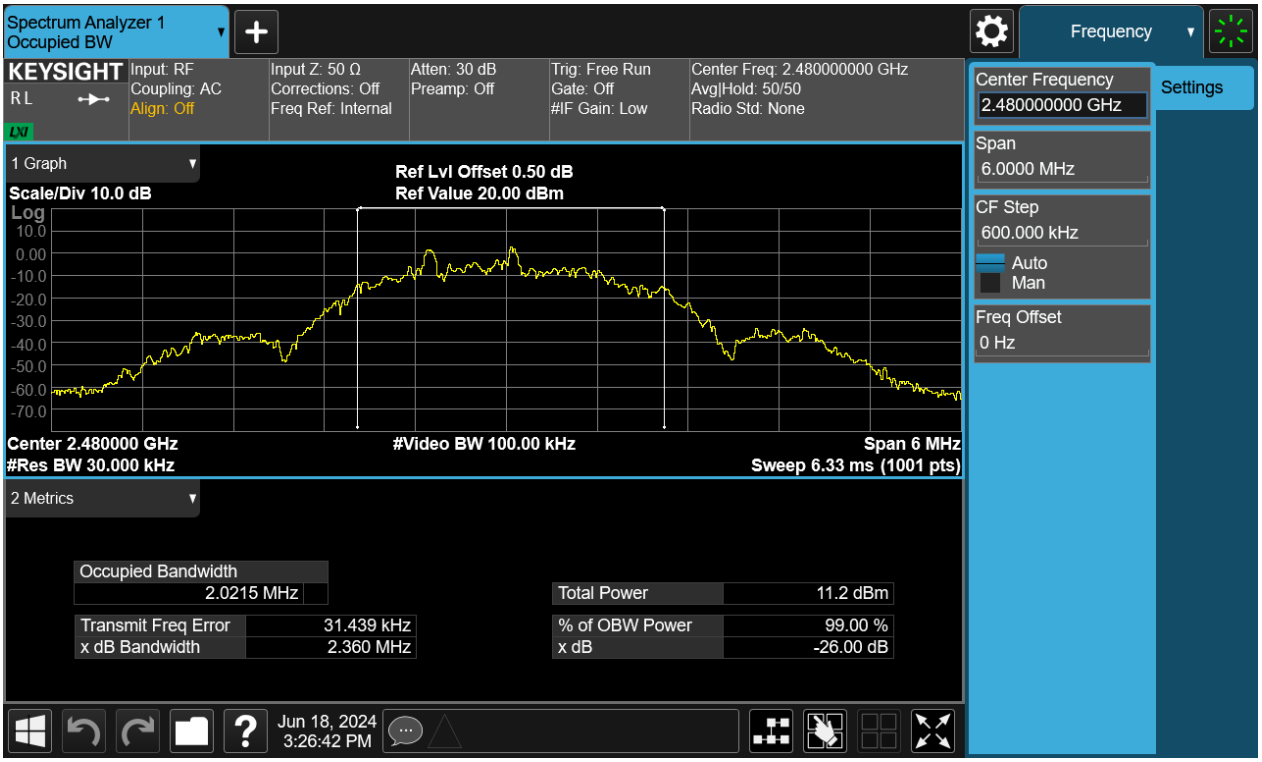


Figure 12: 6dB Bandwidth, 2480MHz, BLE-2Mbps

99% Bandwidth, 2480MHz, BLE-2Mbps



4.1.4 Maximum conducted output power spectral density

RESULT: **PASS**

Test standard : FCC Part 15.247(e), RSS-247 5.2(b)
Requirement : ANSI C63.10-2013 clause 11.10.2,
KDB 558074 D01 v05r02, Clause 8.4
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 23.2°C
Relative humidity : 51%

Table 4: Maximum conducted output power spectral density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE-1Mbps	2402	-9.90	8
	2440	-10.39	
	2480	-9.96	
BLE-2Mbps	2402	-9.52	
	2440	-10.12	
	2480	-10.19	

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

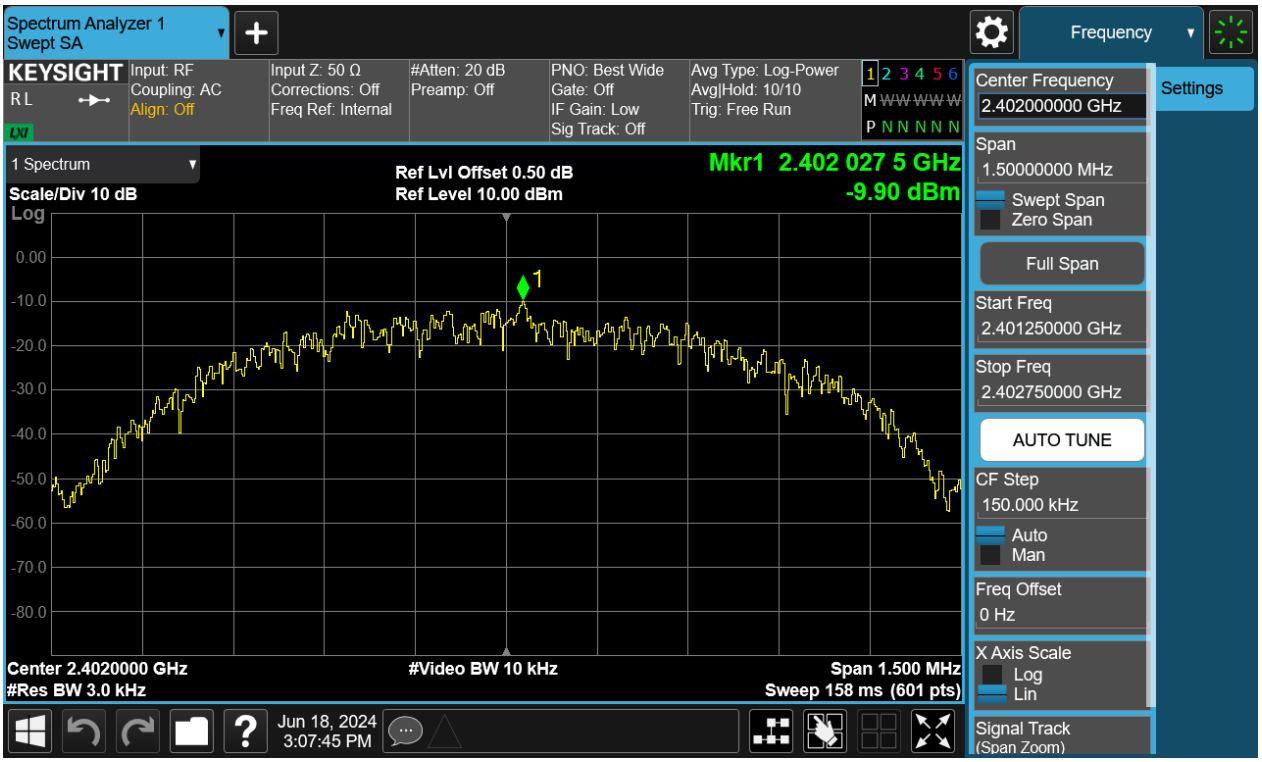


Figure 14: Power Spectral Density, 2440MHz, BLE-1Mbps

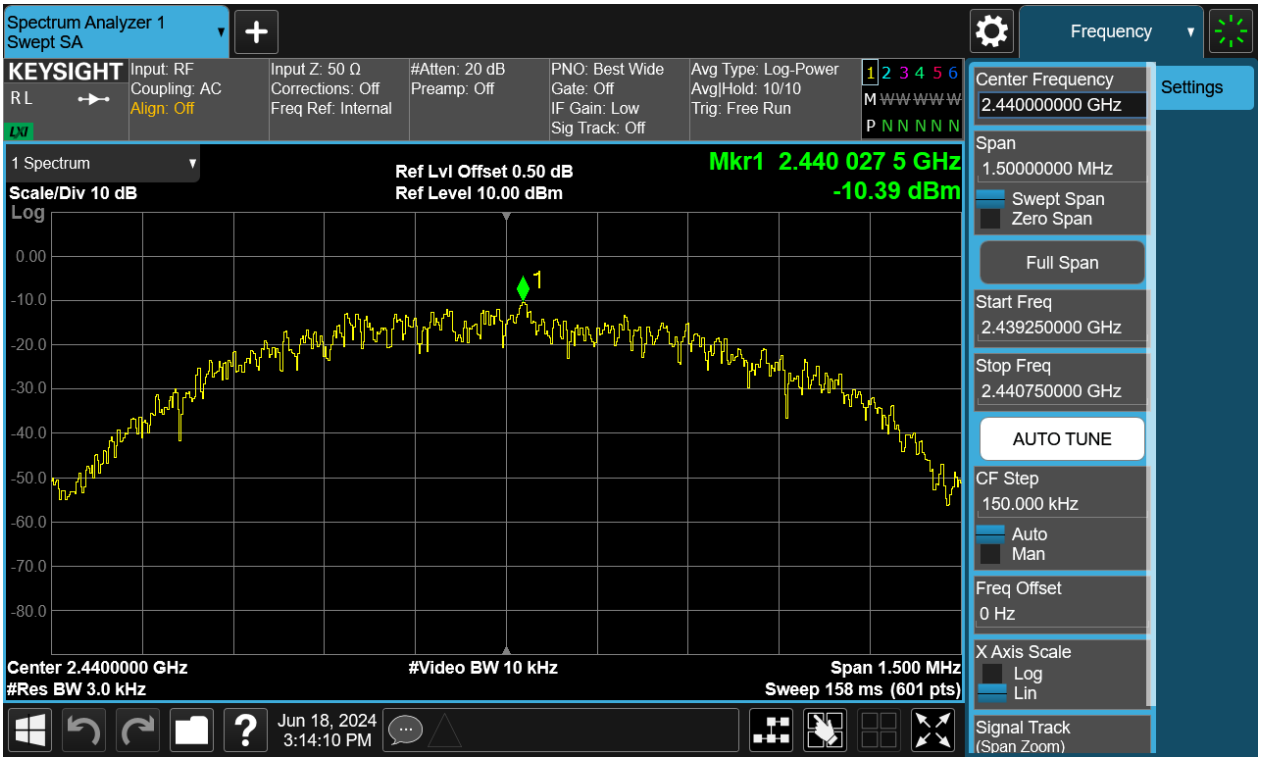


Figure 15: Power Spectral Density, 2480MHz, BLE-1Mbps

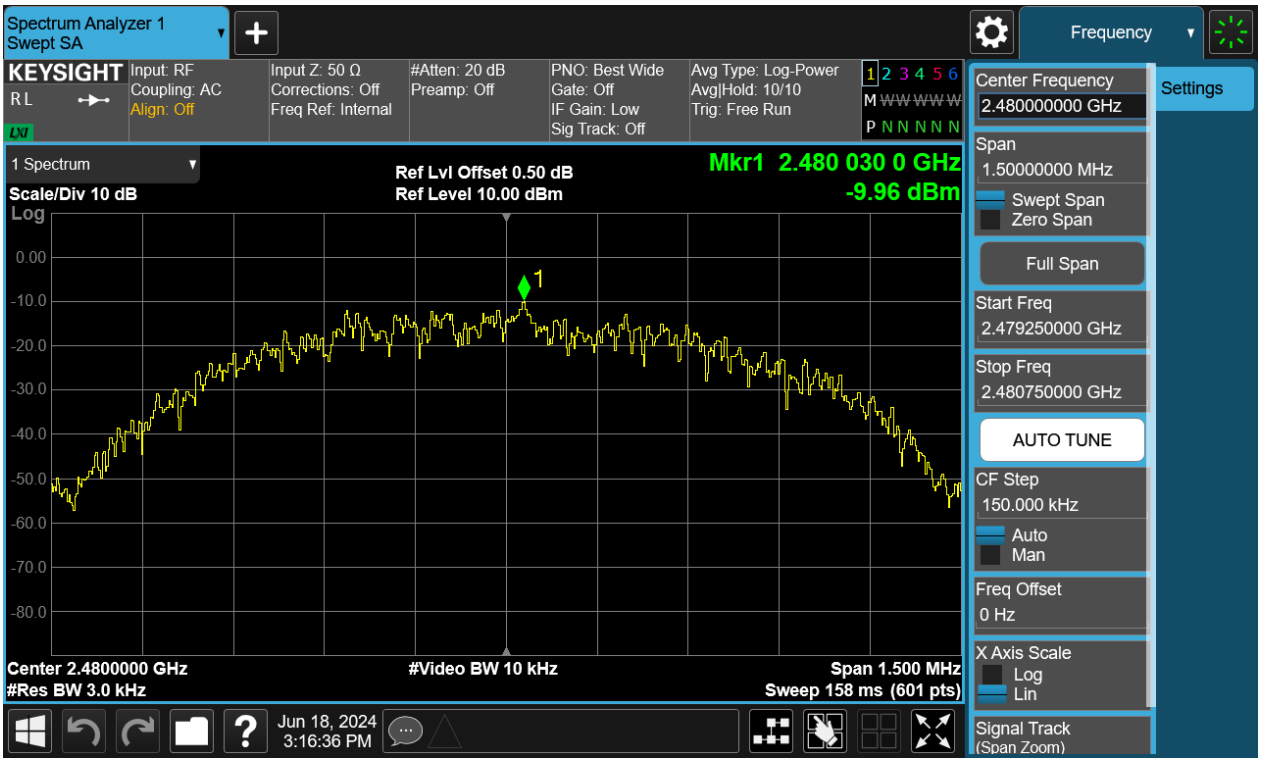


Figure 16: Power Spectral Density, 2402MHz, BLE-2Mbps

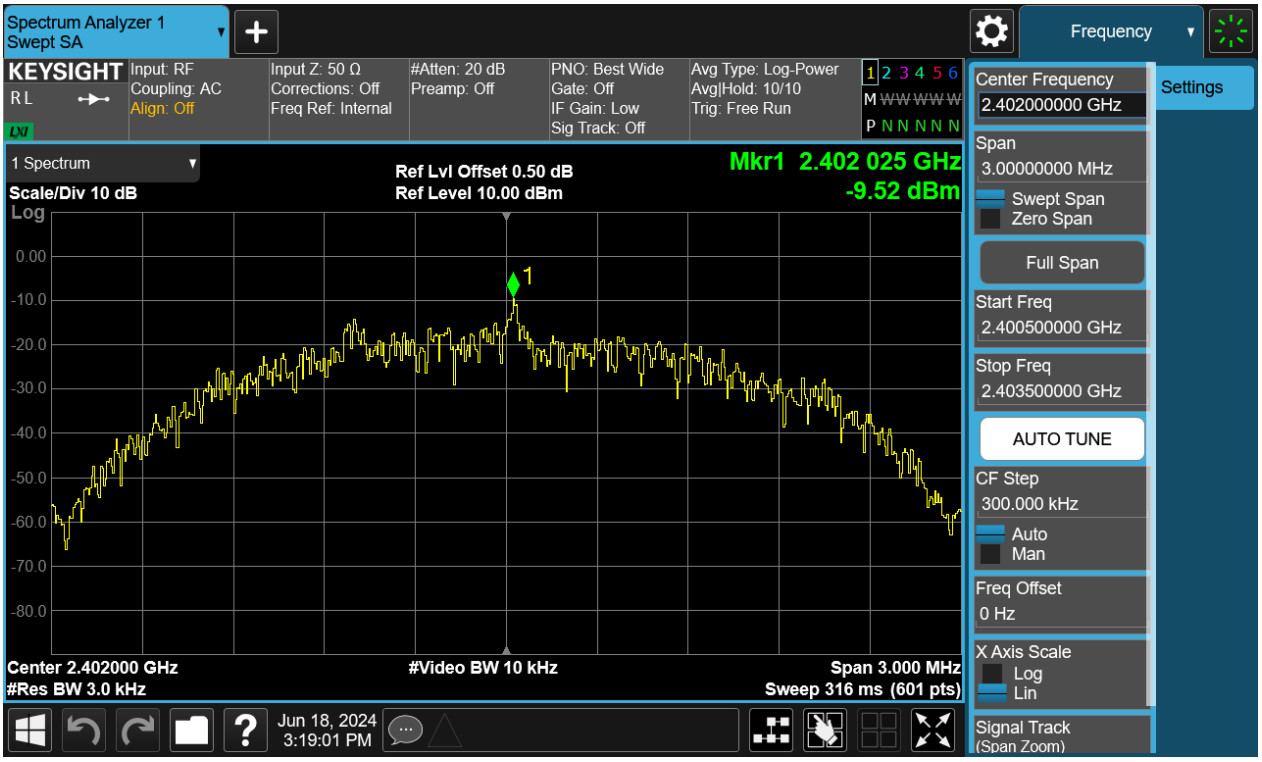


Figure 17: Power Spectral Density, 2440MHz, BLE-2Mbps

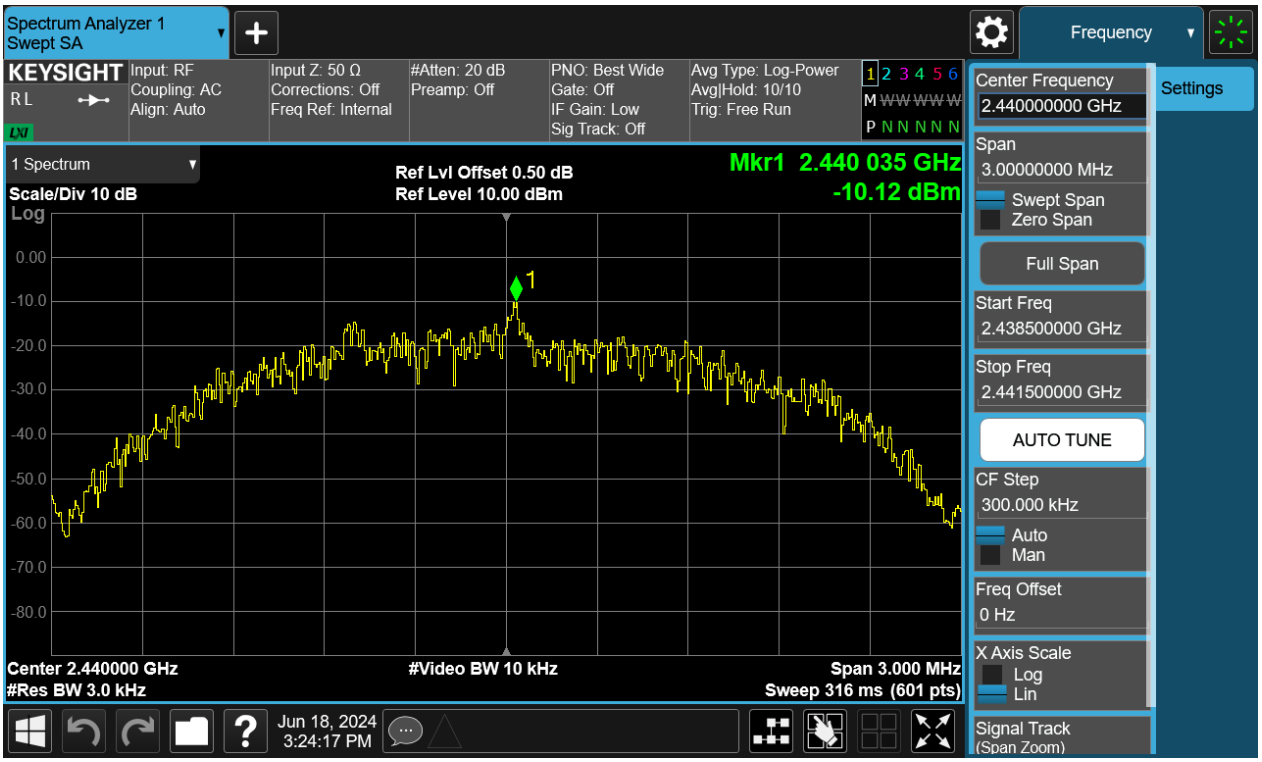
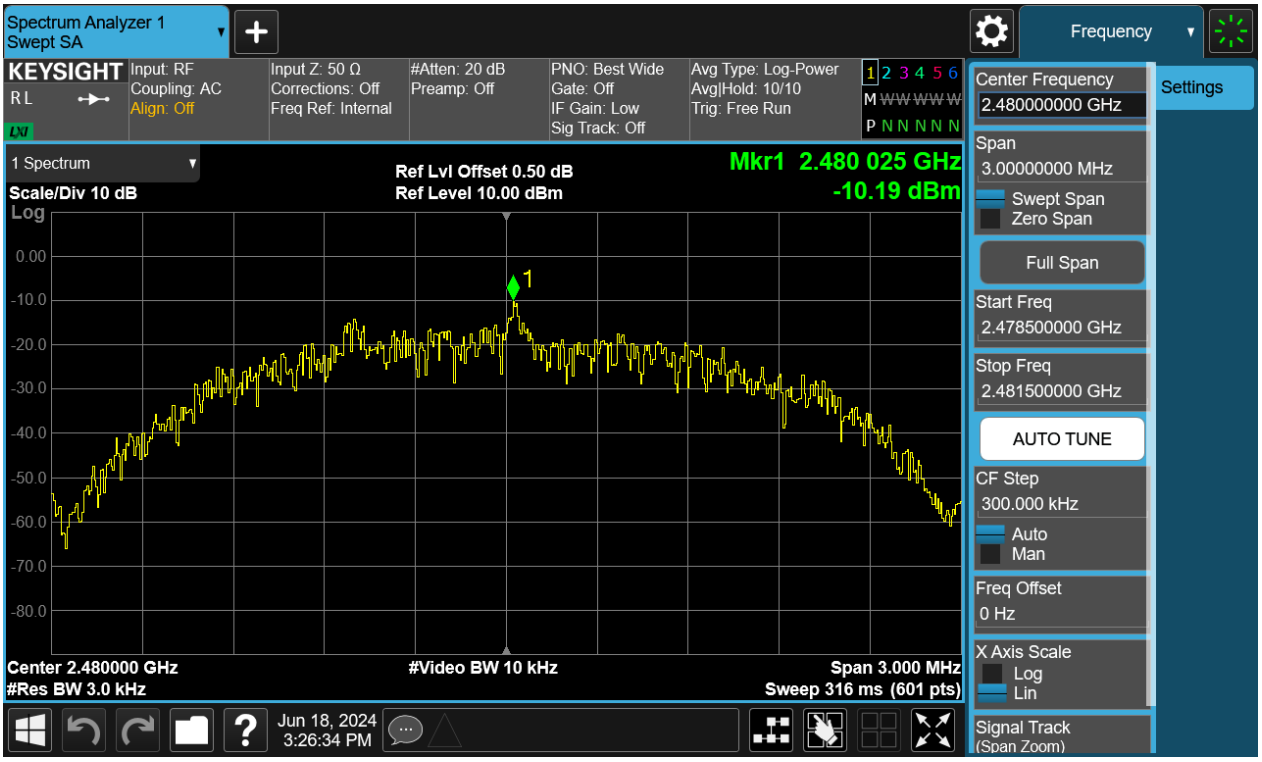


Figure 18: Power Spectral Density, 2480MHz, BLE-2Mbps



4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT: **PASS**

Test standard	:	FCC Part 15.247(d), RSS-247 5.5
Requirement	:	ANSI C63.10-2013, Clause 11.11.1(a) KDB 558074 D01 v05r02, Clause 8.5
Kind of test site	:	Shielded room

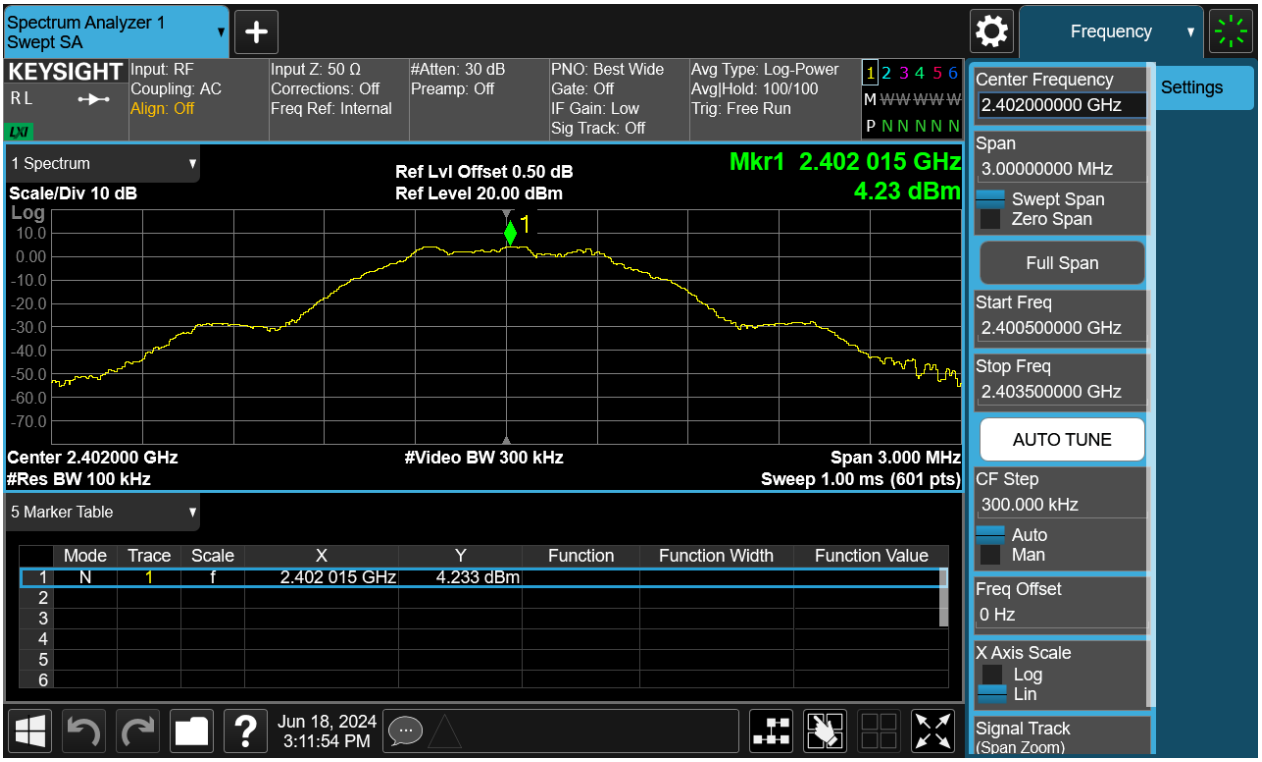
Test setup

Test Channel	:	Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	:	A.1.a
Ambient temperature	:	23.2°C
Relative humidity	:	51%

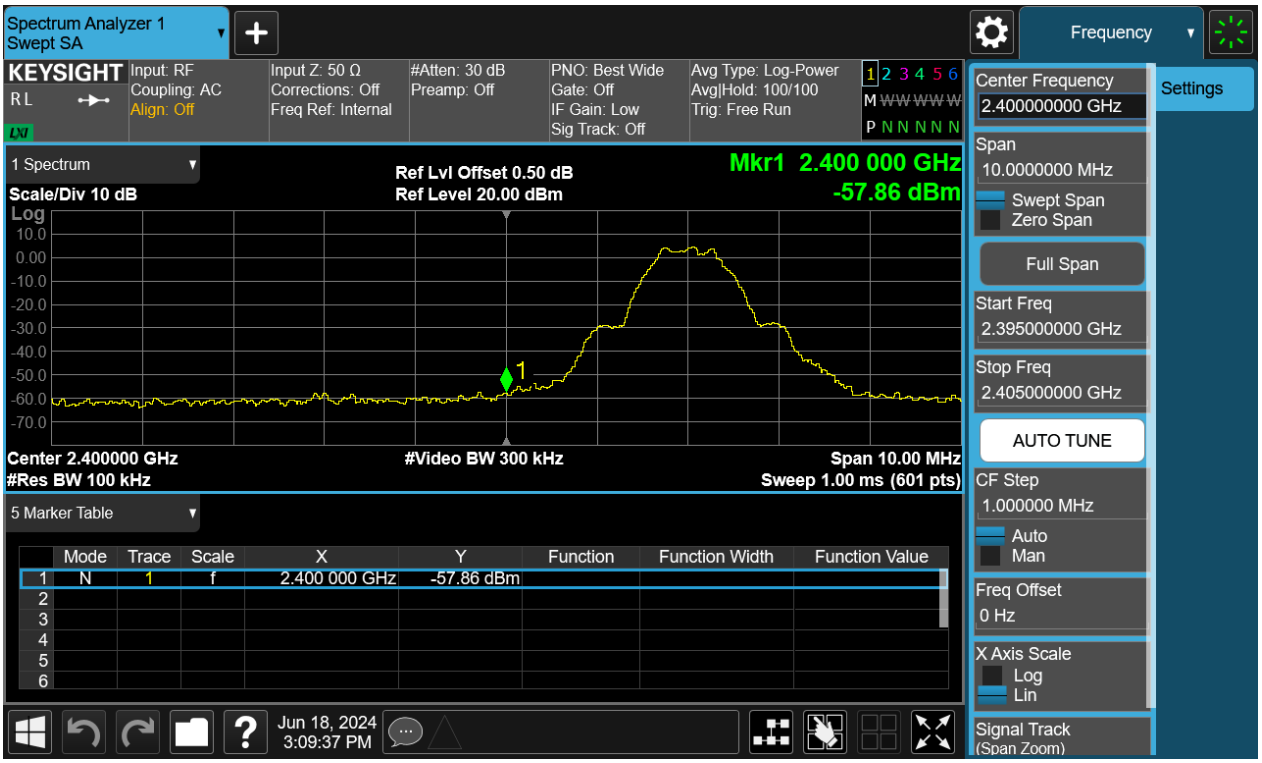
For details refer to following test plot.

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

Carrier Level



Band Edge



Conducted spurious emissions 30MHz-25GHz

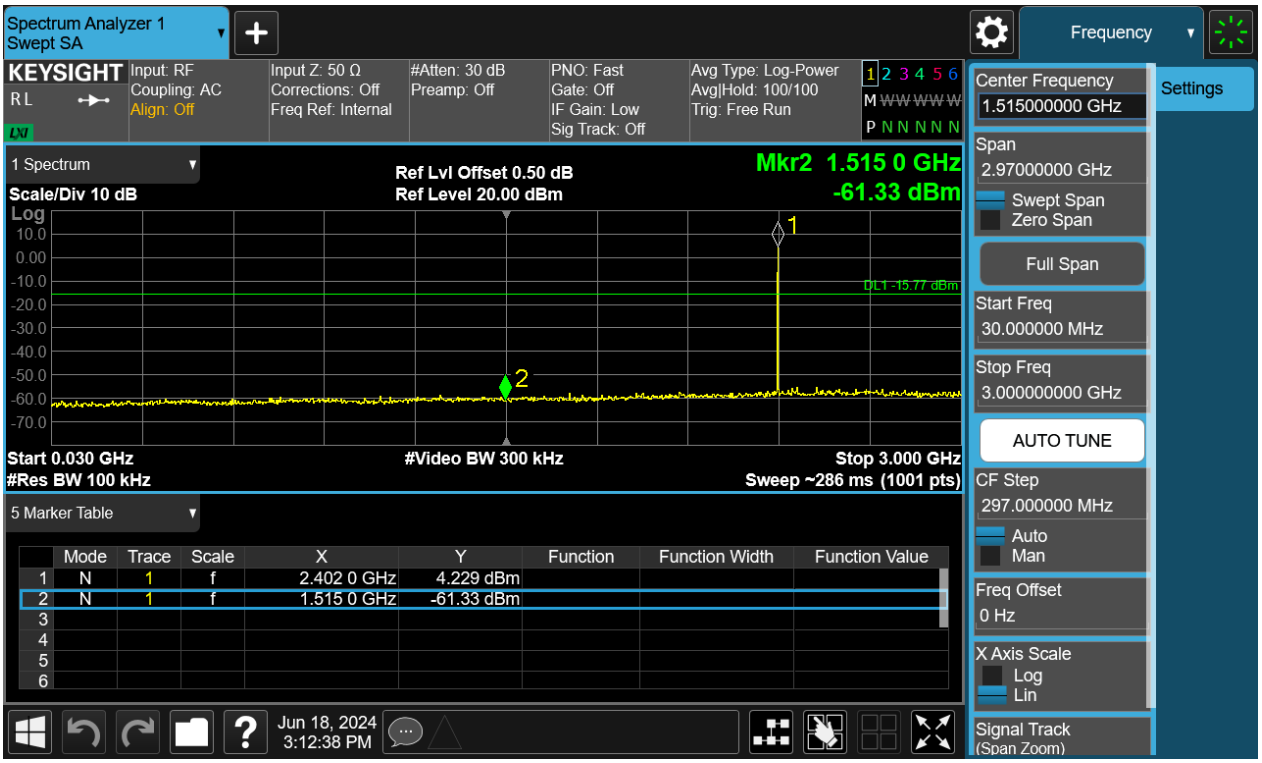
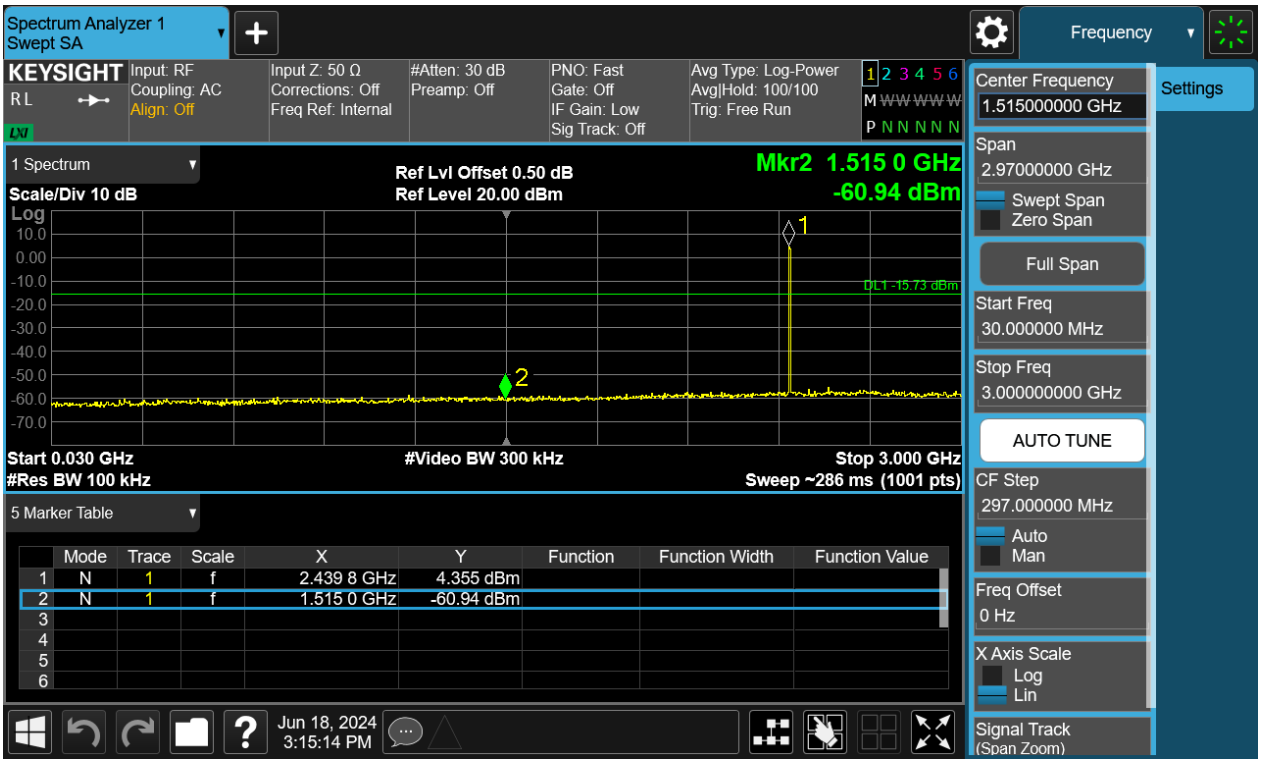


Figure 20: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE-1Mbps Carrier Level

Conducted spurious emissions 30MHz-25GHz



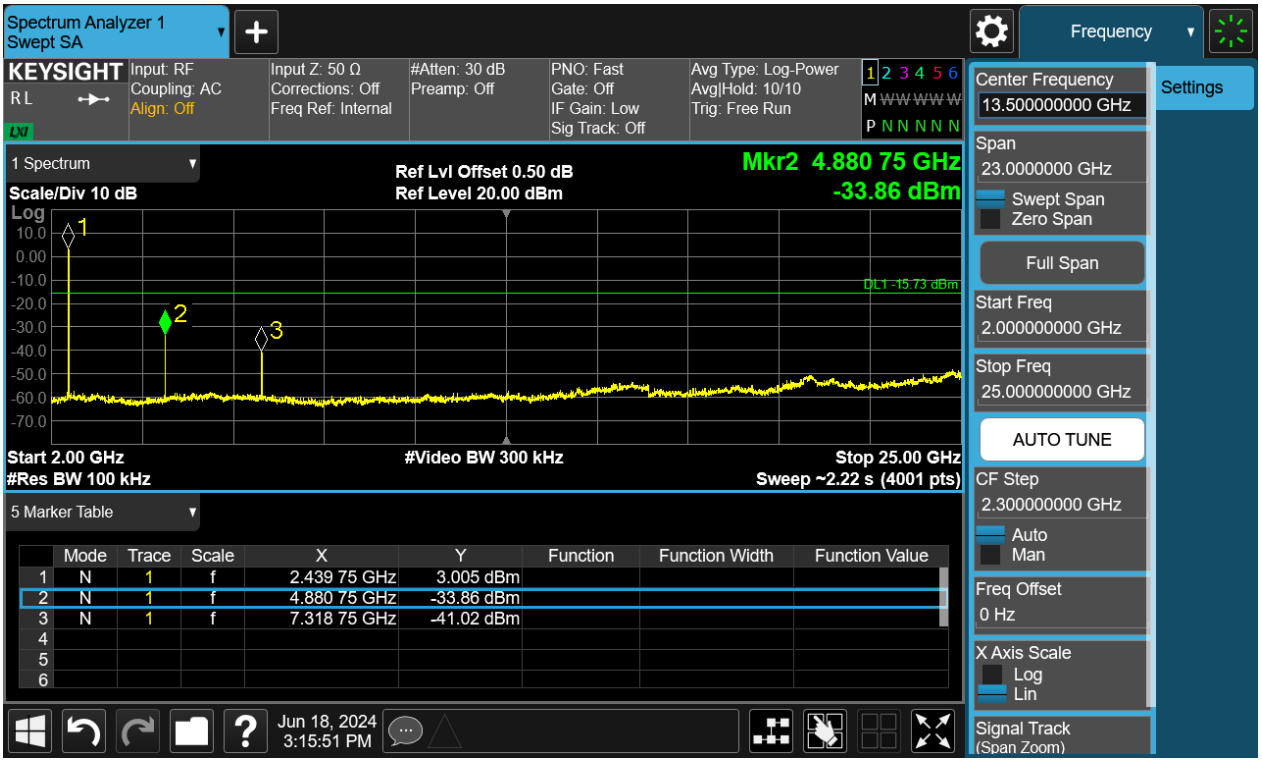
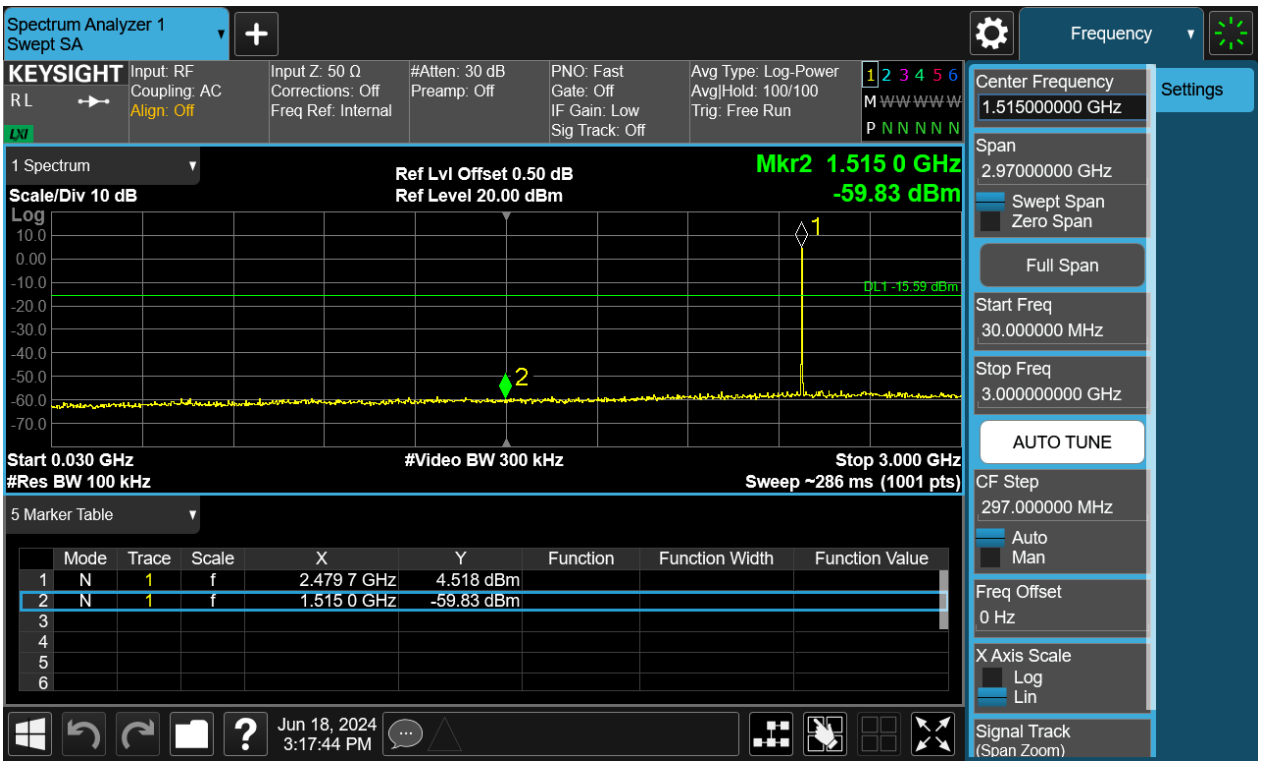


Figure 21: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE-1Mbps Carrier Level

Band Edge

Conducted spurious emissions 30MHz-25GHz



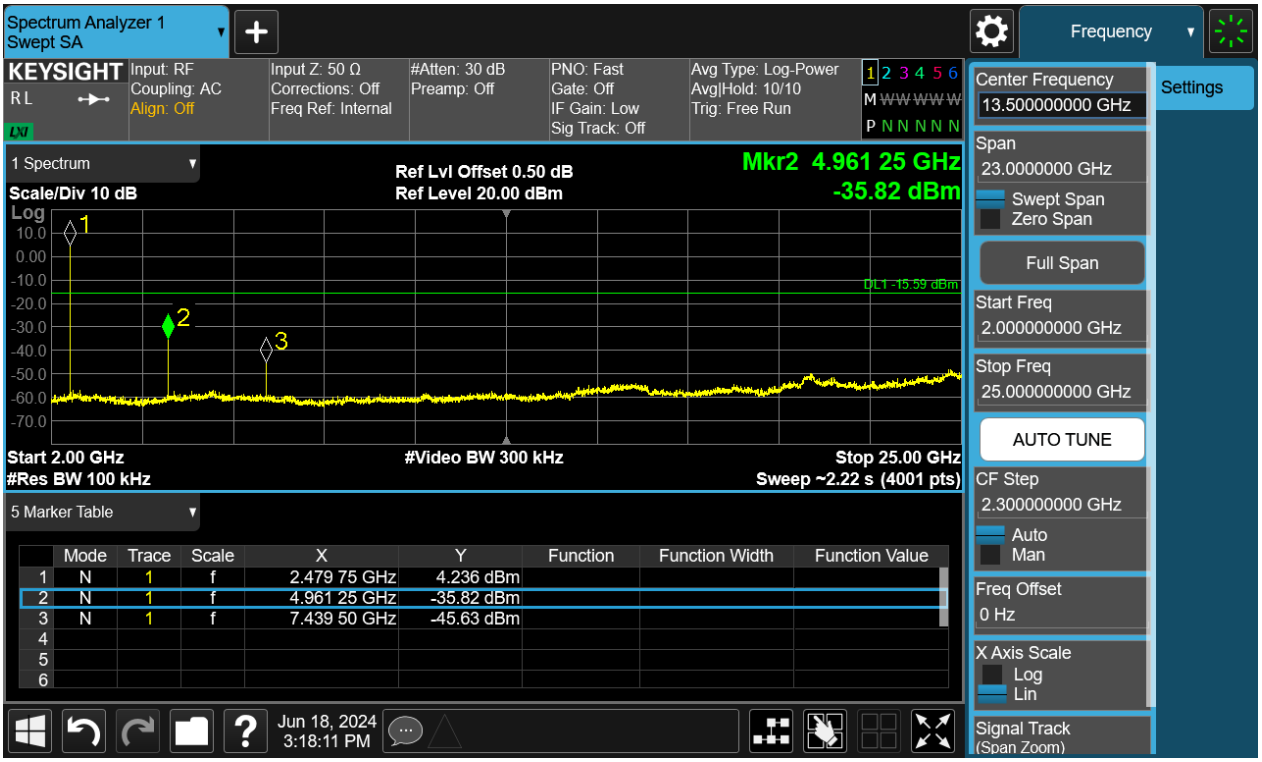
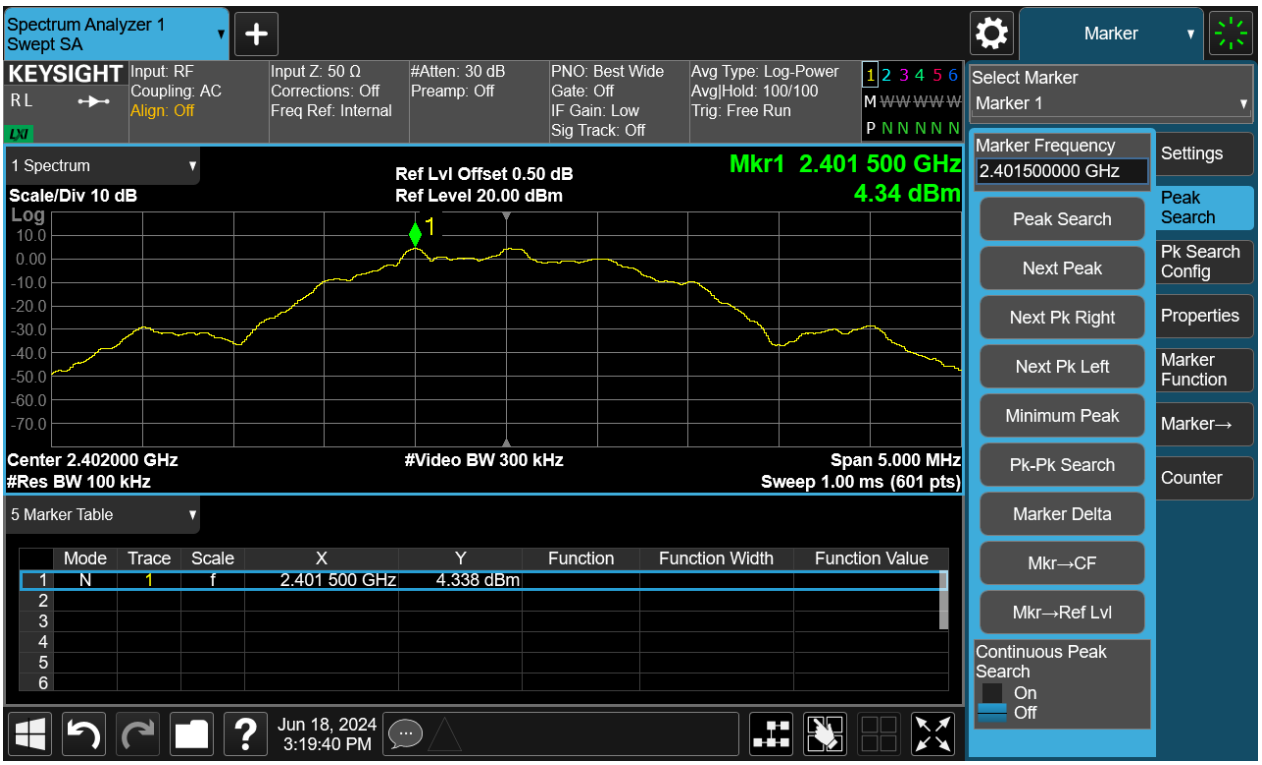
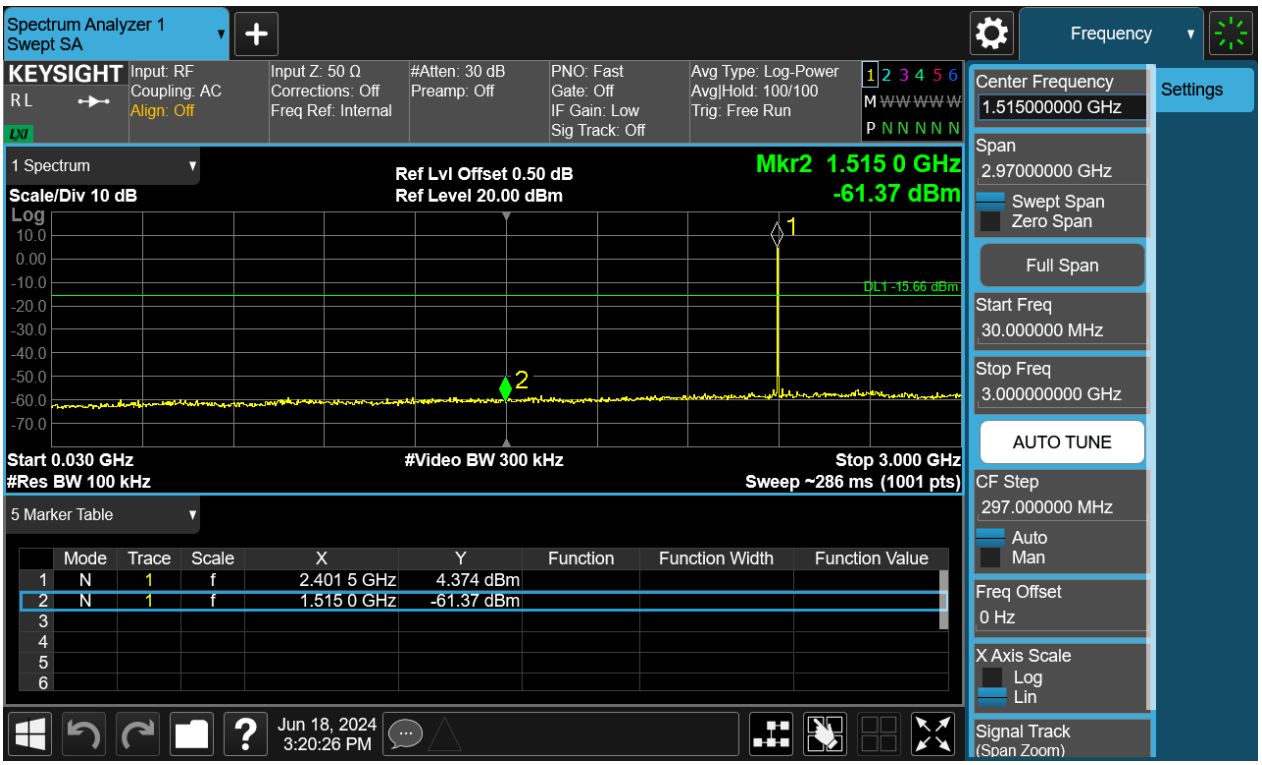


Figure 22: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE-2Mbps Carrier Level



Band Edge

Conducted spurious emissions 30MHz-25GHz



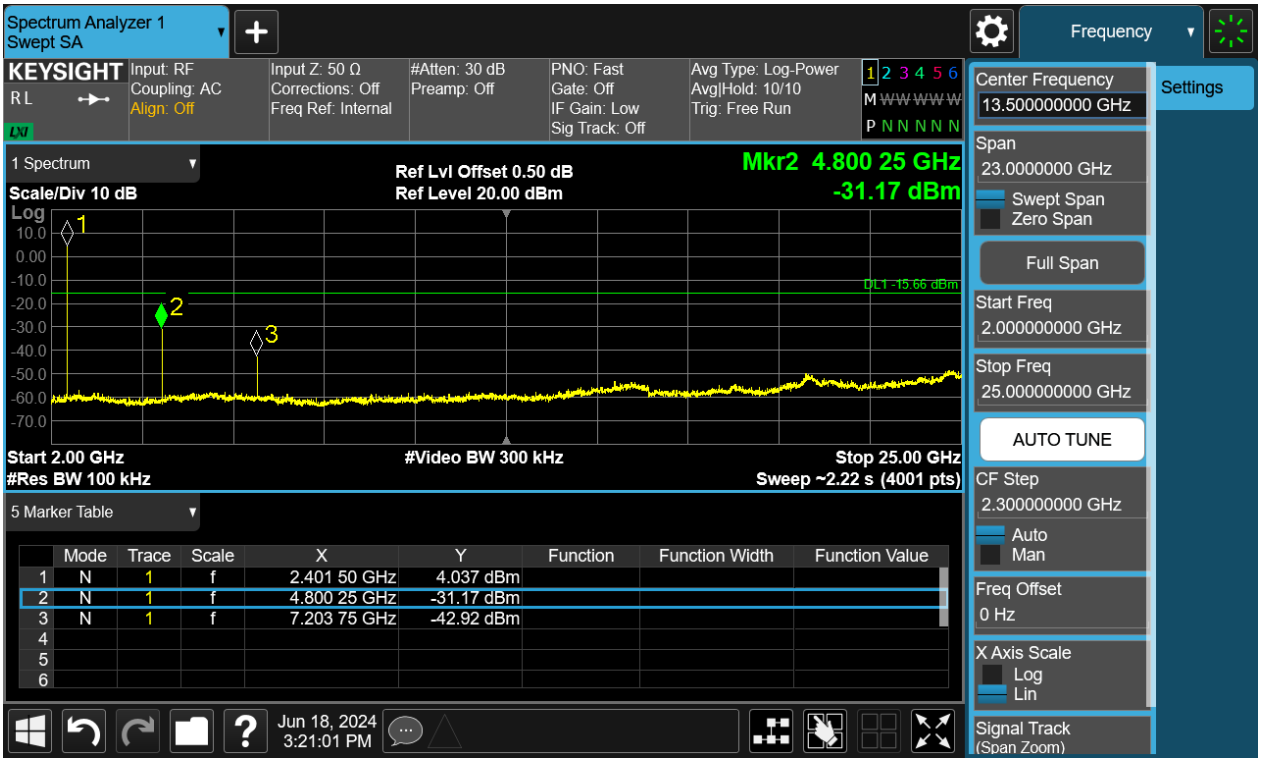
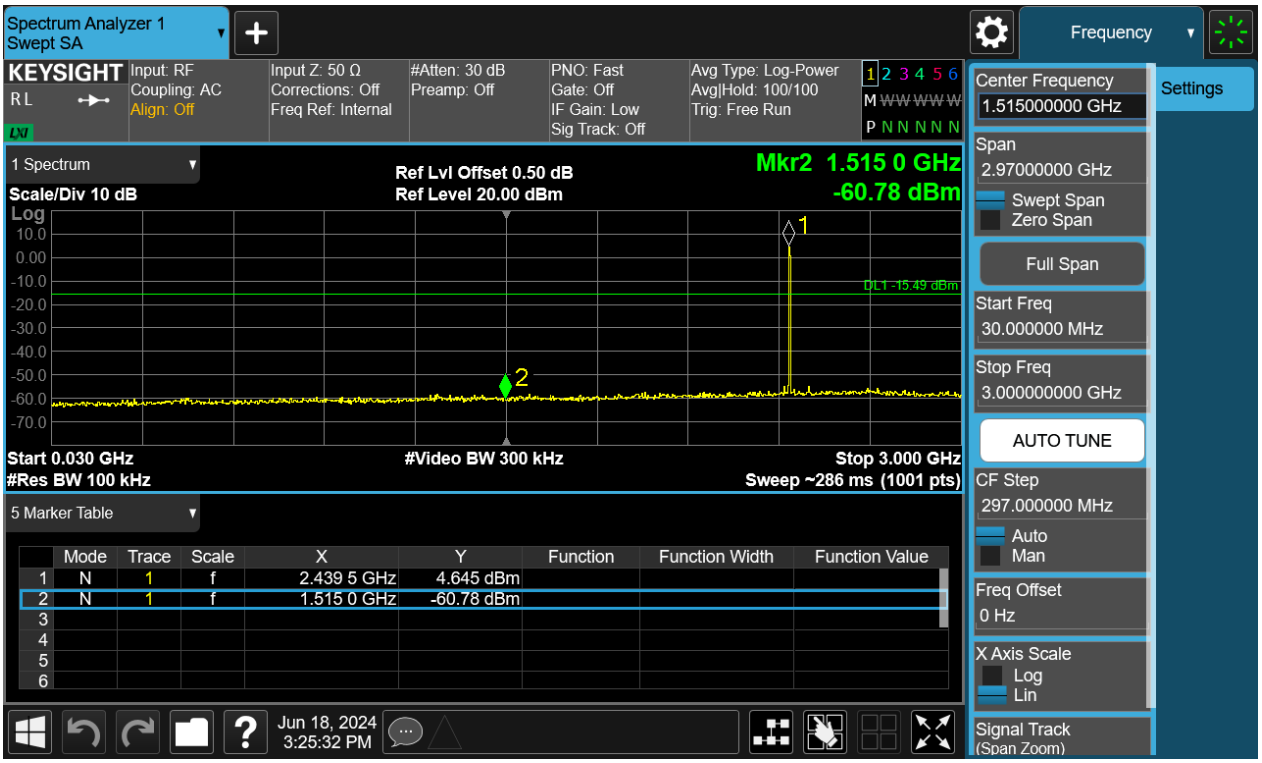


Figure 23: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE-2Mbps Carrier Level

Conducted spurious emissions 30MHz-25GHz



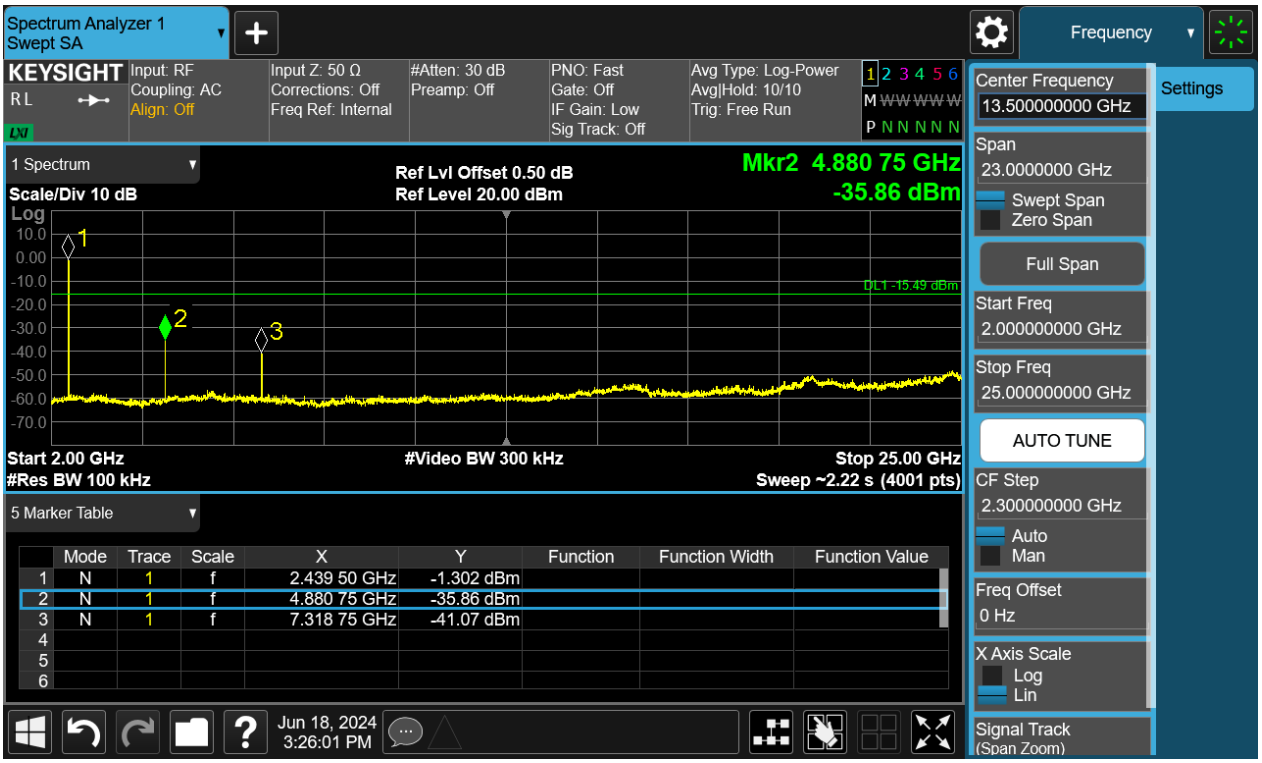
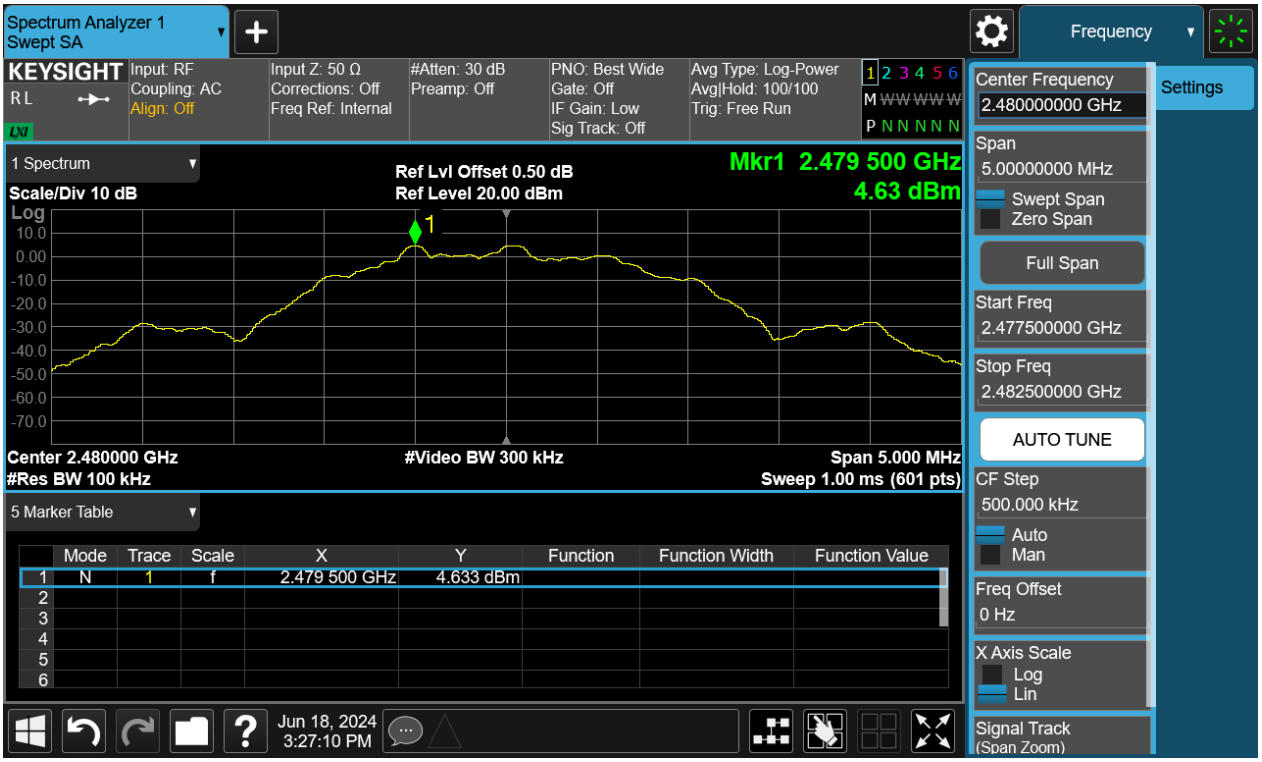


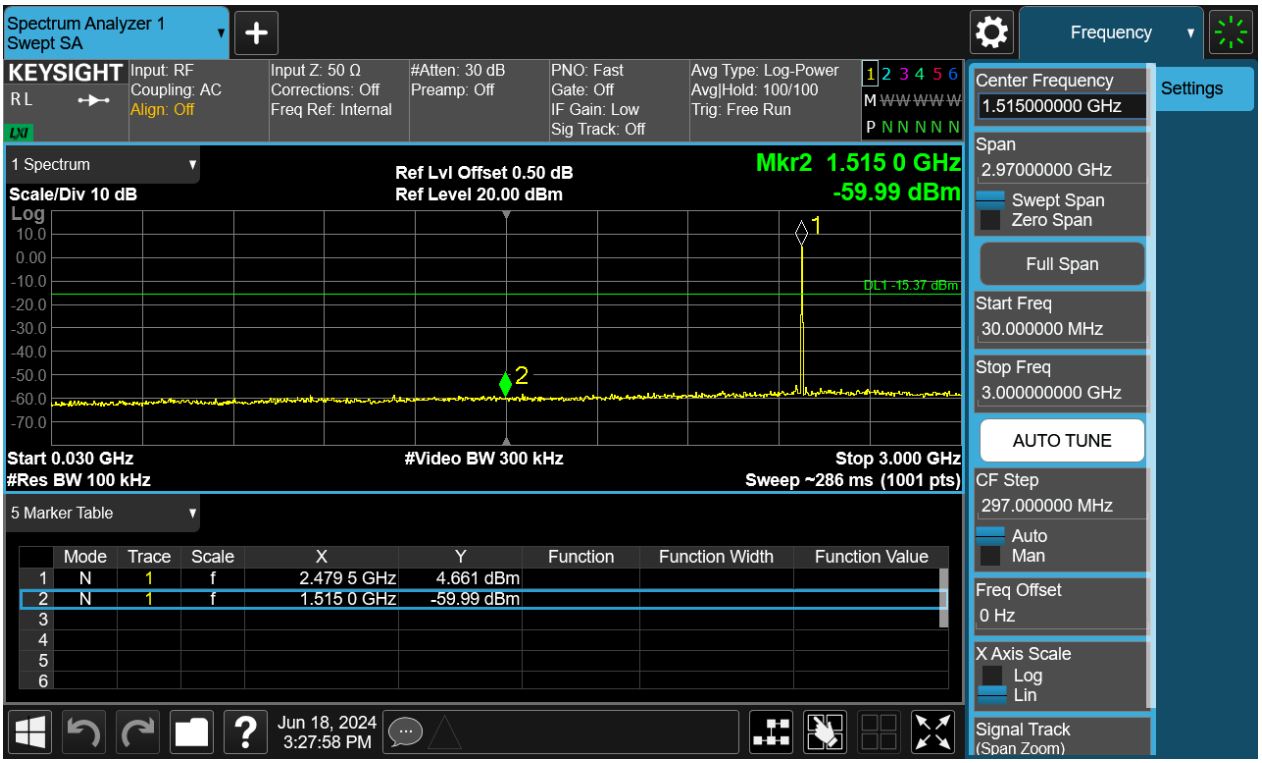
Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE-2Mbps

Carrier Level



Band Edge

Conducted spurious emissions 30MHz-25GHz



4.1.6 Radiated Emission

RESULT: **PASS**

Test standard	:	FCC Part 15.247(d), 15.205, 15.209 RSS-GEN 8.9
Requirement	:	ANSI C63.10-2013 clause 11.12, KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/Middle/High
Operation Mode	:	A
Ambient temperature	:	23.5°C
Relative humidity	:	48%

Notes

Test plots please refer to the annex document "SHE24050057-02DE DATA BLE-TX EXHIBIT A of EH-MC35 Model".

Test plots please refer to the annex document "SHE24050057-02DE DATA BLE-TX EXHIBIT A of EH-MC35B Model".

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. In addition, During 30MHz to 1GHz test frequency range, only the worst mode data was reported in this report.
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.

4.1.7 Band Edge (Restricted-band band-edge)

RESULT: **PASS**

Test standard	:	FCC Part 15.247(d), 15.205, 15.209 RSS-GEN 8.10
Requirement	:	ANSI C63.10-2013 clause 11.13, KDB 558074 D01 v05r02, Clause 8.7
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/Middle/High
Operation Mode	:	A.1
Ambient temperature	:	23.5°C
Relative humidity	:	48%

Notes

Test plots please refer to the annex document "SHE24050057-02DE DATA BLE-TX EXHIBIT A of EH-MC35 Model ".

Test plots please refer to the annex document "SHE24050057-02DE DATA BLE-TX EXHIBIT A of EH-MC35B Model ".

4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT: **PASS**

Test standard	:	FCC Part 15.207(a), RSS-Gen 8.8
Requirement	:	ANSI C63.10-2013, Clause 6.2
Kind of test site	:	Shielded room

Test setup

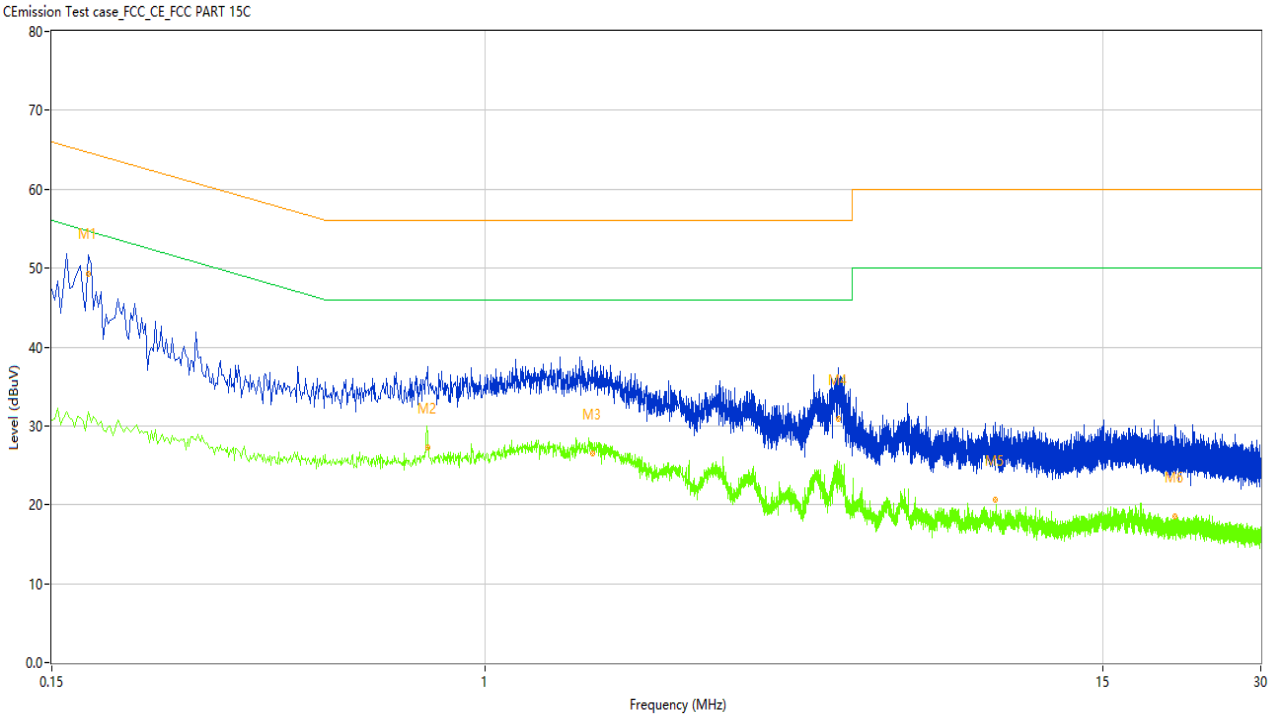
Input Voltage	:	which received AC 120V, 60Hz Power
Operation Mode	:	A.1.a
Earthing	:	Connected to GND
Ambient temperature	:	23.8°C
Relative humidity	:	47%

For details refer to following test plot.

Note：The all configurations were tested respectively, but only the worst data (at low channel) shown here.

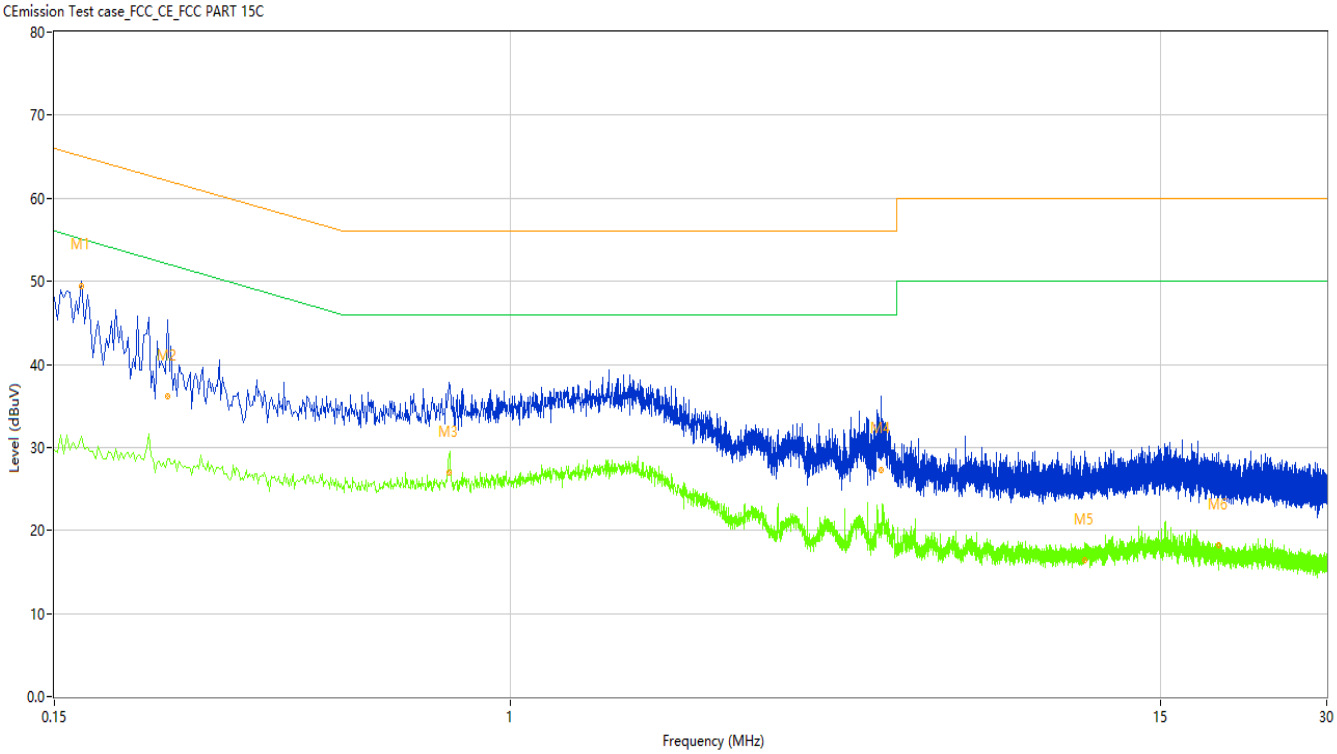
EH-MC35 Model

Figure 25: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	54.88	9.93	64.67	9.79	Peak	L	Pass
1*	0.176	49.21	9.93	64.67	15.46	QP	L	Pass
1**	0.176	31.72	9.93	54.67	22.95	AV	L	Pass
2	0.778	33.53	9.94	56.00	22.47	Peak	L	Pass
2*	0.778	27.24	9.94	56.00	28.76	QP	L	Pass
2**	0.778	29.04	9.94	46.00	16.96	AV	L	Pass
3	1.604	33.68	9.85	56.00	22.32	Peak	L	Pass
3*	1.604	26.58	9.85	56.00	29.42	QP	L	Pass
3**	1.604	26.82	9.85	46.00	19.18	AV	L	Pass
4	4.720	37.91	9.82	56.00	18.09	Peak	L	Pass
4*	4.720	30.92	9.82	56.00	25.08	QP	L	Pass
4**	4.720	22.57	9.82	46.00	23.43	AV	L	Pass
5	9.382	27.82	9.70	60.00	32.18	Peak	L	Pass
5*	9.382	20.60	9.70	60.00	39.40	QP	L	Pass
5**	9.382	19.01	9.70	50.00	30.99	AV	L	Pass
6	20.634	25.75	9.34	60.00	34.25	Peak	L	Pass
6*	20.634	18.55	9.34	60.00	41.45	QP	L	Pass
6**	20.634	17.35	9.34	50.00	32.65	AV	L	Pass

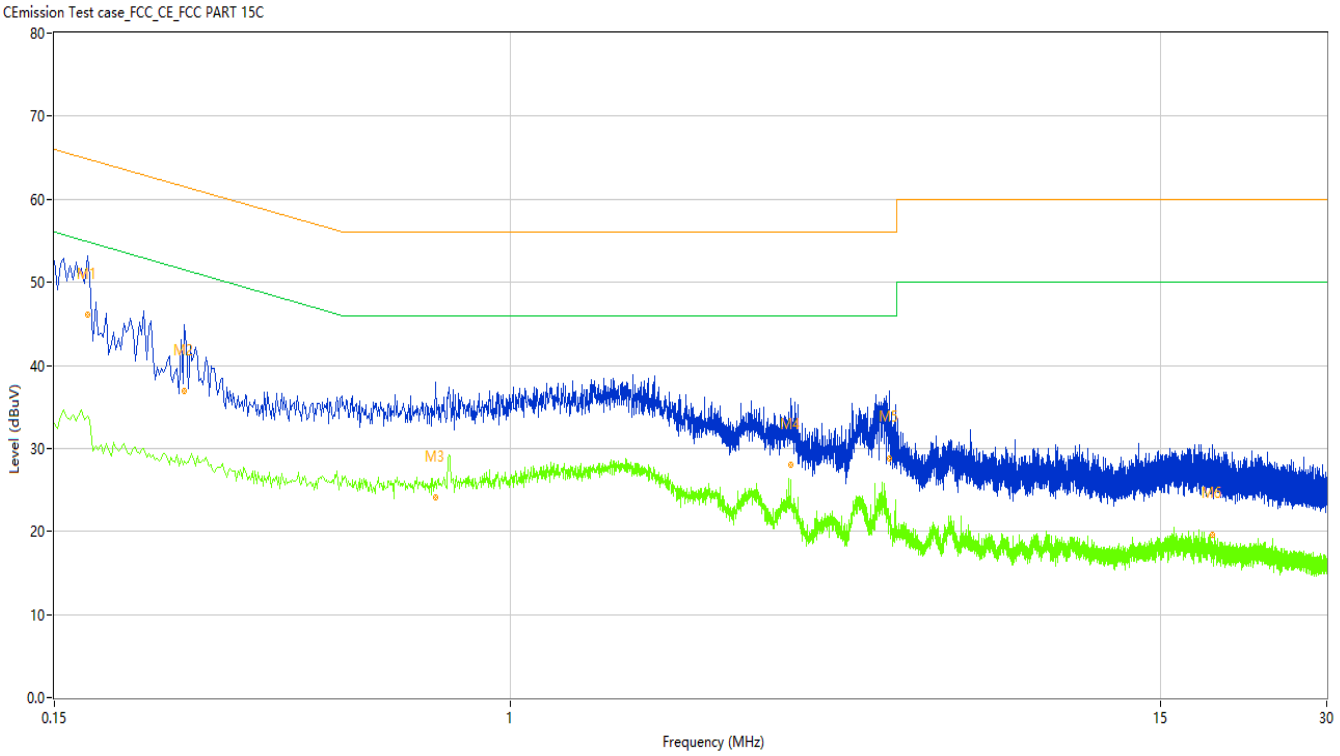
Figure 26: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	55.33	10.03	65.06	9.73	Peak	N	Pass
1*	0.168	49.44	10.03	65.06	15.62	QP	N	Pass
1**	0.168	31.40	10.03	55.06	23.66	AV	N	Pass
2	0.240	45.73	10.05	62.10	16.37	Peak	N	Pass
2*	0.240	36.21	10.05	62.10	25.89	QP	N	Pass
2**	0.240	28.56	10.05	52.10	23.54	AV	N	Pass
3	0.776	33.65	10.04	56.00	22.35	Peak	N	Pass
3*	0.776	27.03	10.04	56.00	28.97	QP	N	Pass
3**	0.776	28.92	10.04	46.00	17.08	AV	N	Pass
4	4.694	35.17	9.77	56.00	20.83	Peak	N	Pass
4*	4.694	27.23	9.77	56.00	28.77	QP	N	Pass
4**	4.694	20.78	9.77	46.00	25.22	AV	N	Pass
5	10.932	23.62	9.73	60.00	36.38	Peak	N	Pass
5*	10.932	16.39	9.73	60.00	43.61	QP	N	Pass
5**	10.932	18.59	9.73	50.00	31.41	AV	N	Pass
6	19.160	26.00	9.46	60.00	34.00	Peak	N	Pass
6*	19.160	18.16	9.46	60.00	41.84	QP	N	Pass
6**	19.160	16.32	9.46	50.00	33.68	AV	N	Pass

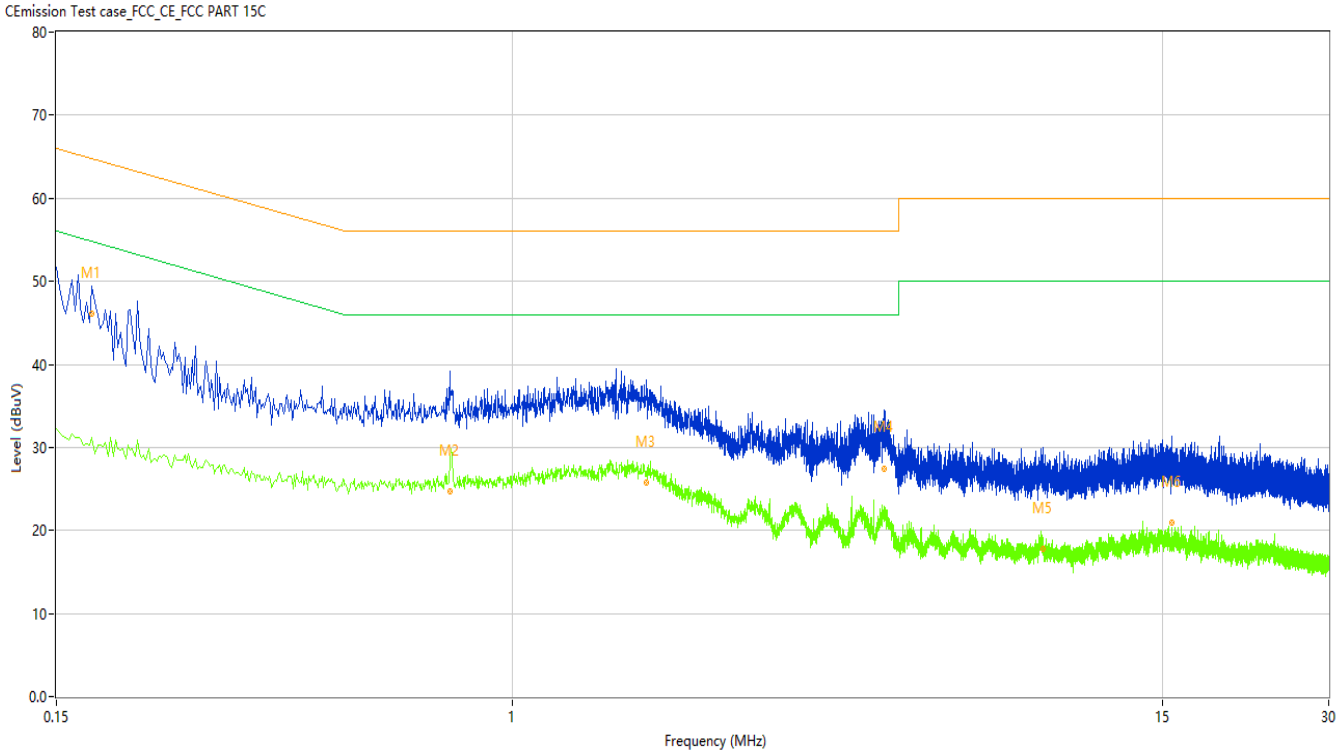
EH-MC35B Model

Figure 27: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	54.48	9.93	64.86	10.38	Peak	L	Pass
1*	0.172	46.08	9.93	64.86	18.78	QP	L	Pass
1**	0.172	33.86	9.93	54.86	21.00	AV	L	Pass
2	0.258	44.16	9.97	61.50	17.34	Peak	L	Pass
2*	0.258	36.98	9.97	61.50	24.52	QP	L	Pass
2**	0.258	28.54	9.97	51.50	22.96	AV	L	Pass
3	0.734	31.16	9.95	56.00	24.84	Peak	L	Pass
3*	0.734	24.07	9.95	56.00	31.93	QP	L	Pass
3**	0.734	26.06	9.95	46.00	19.94	AV	L	Pass
4	3.224	36.62	9.83	56.00	19.38	Peak	L	Pass
4*	3.224	27.96	9.83	56.00	28.04	QP	L	Pass
4**	3.224	26.28	9.83	46.00	19.72	AV	L	Pass
5	4.862	36.23	9.82	56.00	19.77	Peak	L	Pass
5*	4.862	28.80	9.82	56.00	27.20	QP	L	Pass
5**	4.862	21.36	9.82	46.00	24.64	AV	L	Pass
6	18.640	27.01	9.40	60.00	32.99	Peak	L	Pass
6*	18.640	19.63	9.40	60.00	40.37	QP	L	Pass
6**	18.640	18.67	9.40	50.00	31.33	AV	L	Pass

Figure 28: Conducted Emission on AC Mains, N Phase

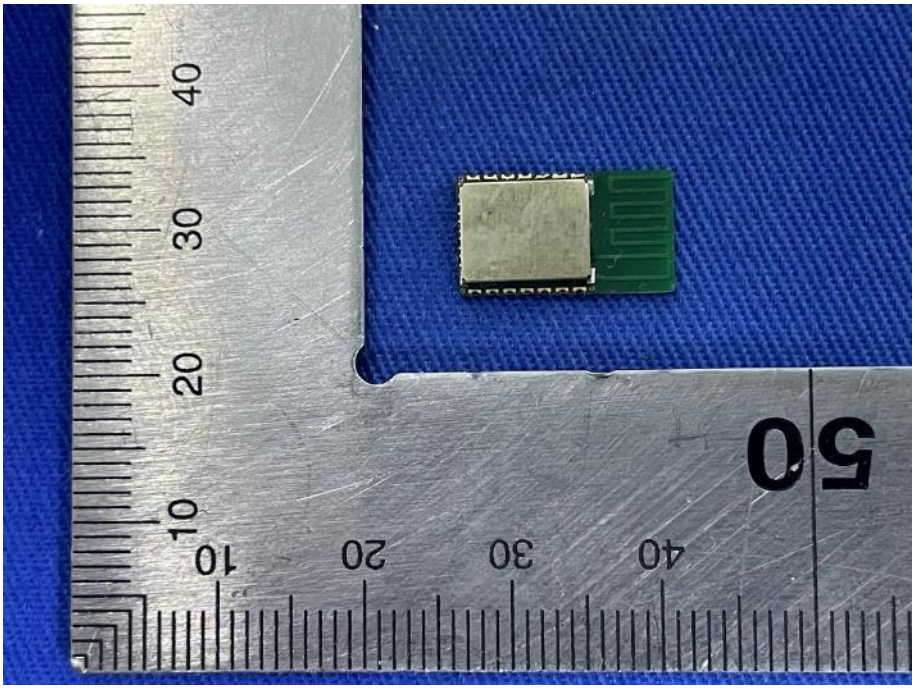


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.174	54.55	10.02	64.77	10.22	Peak	N	Pass
1*	0.174	46.15	10.02	64.77	18.62	QP	N	Pass
1**	0.174	31.13	10.02	54.77	23.64	AV	N	Pass
2	0.772	32.49	10.04	56.00	23.51	Peak	N	Pass
2*	0.772	24.64	10.04	56.00	31.36	QP	N	Pass
2**	0.772	27.45	10.04	46.00	18.55	AV	N	Pass
3	1.752	32.60	9.94	56.00	23.40	Peak	N	Pass
3*	1.752	25.76	9.94	56.00	30.24	QP	N	Pass
3**	1.752	26.80	9.94	46.00	19.20	AV	N	Pass
4	4.720	34.74	9.76	56.00	21.26	Peak	N	Pass
4*	4.720	27.45	9.76	56.00	28.55	QP	N	Pass
4**	4.720	22.60	9.76	46.00	23.40	AV	N	Pass
5	9.114	26.20	9.78	60.00	33.80	Peak	N	Pass
5*	9.114	17.74	9.78	60.00	42.26	QP	N	Pass
5**	9.114	18.62	9.78	50.00	31.38	AV	N	Pass
6	15.608	28.38	9.58	60.00	31.62	Peak	N	Pass
6*	15.608	20.99	9.58	60.00	39.01	QP	N	Pass
6**	15.608	20.34	9.58	50.00	29.66	AV	N	Pass

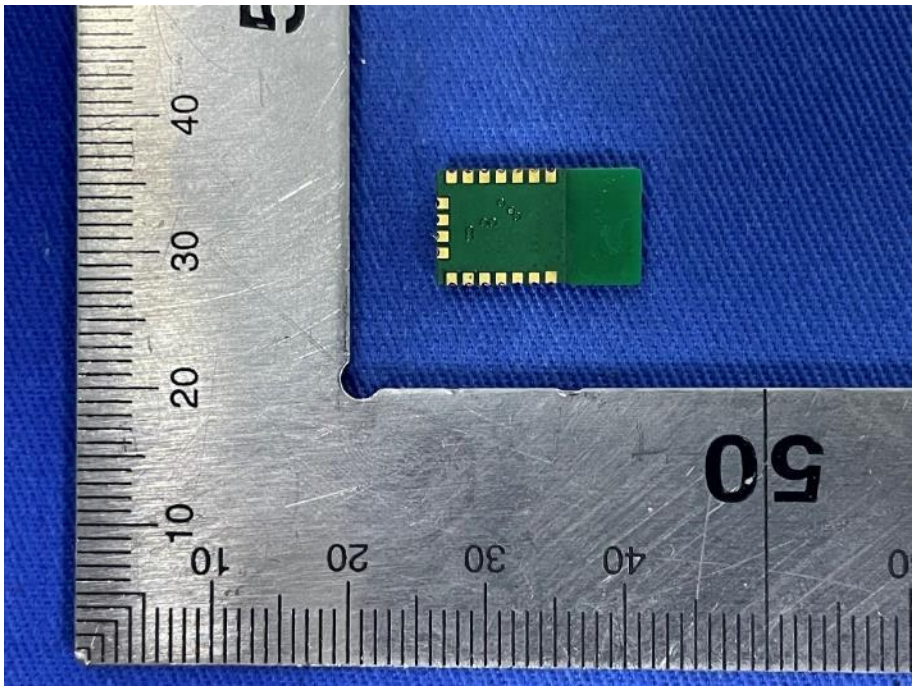
5 Appendixes

5.1 Photographs of the Sample

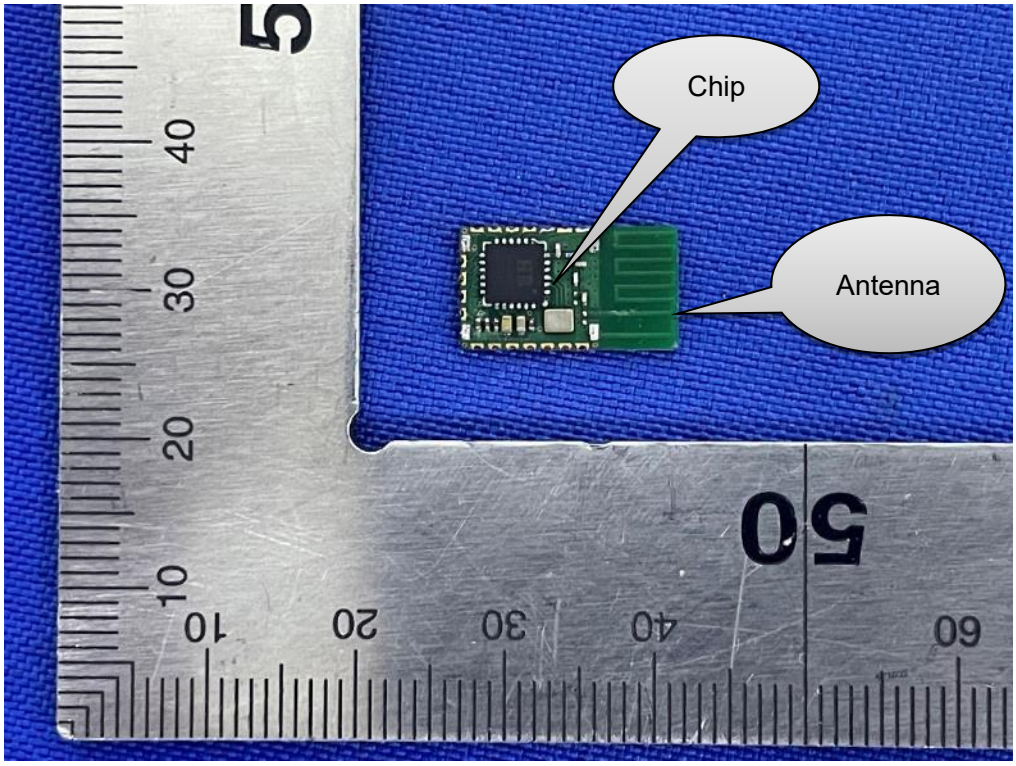
EH-MC35 Model



Front of the sample

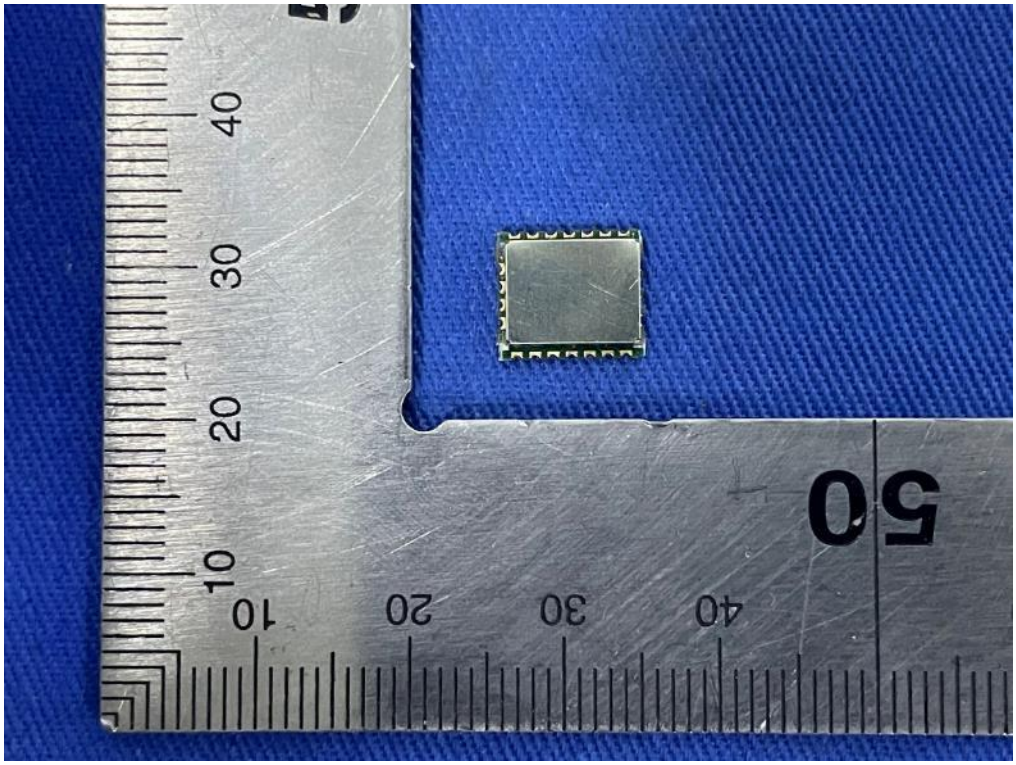


Rear of the sample

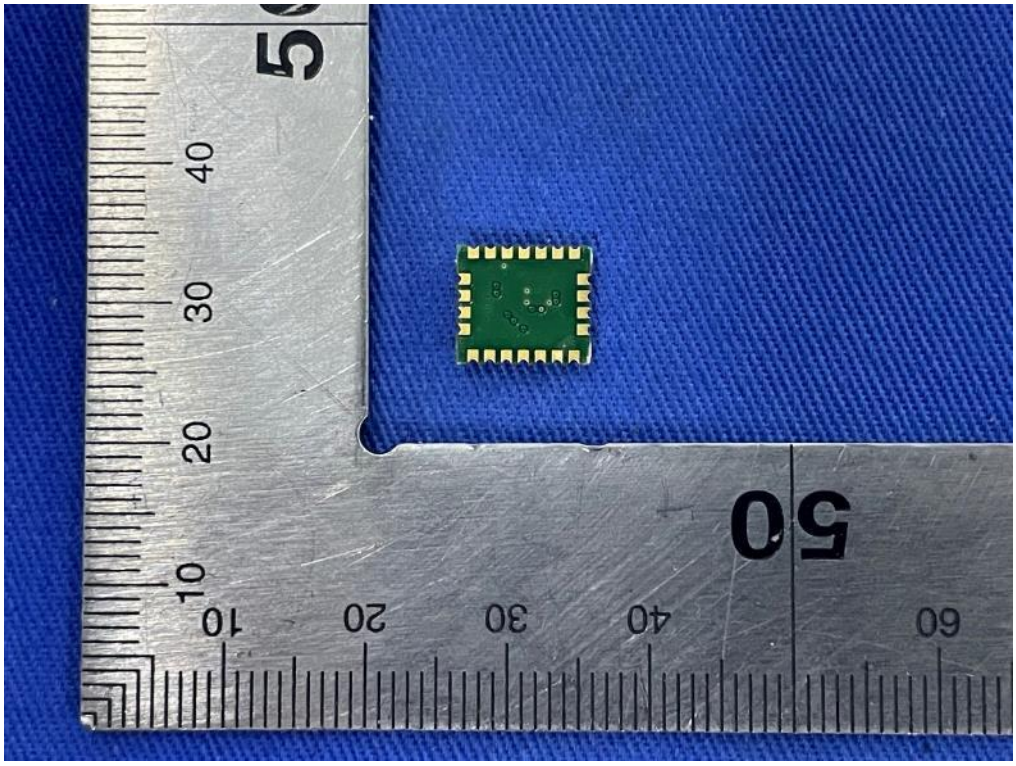


Internal of the sample

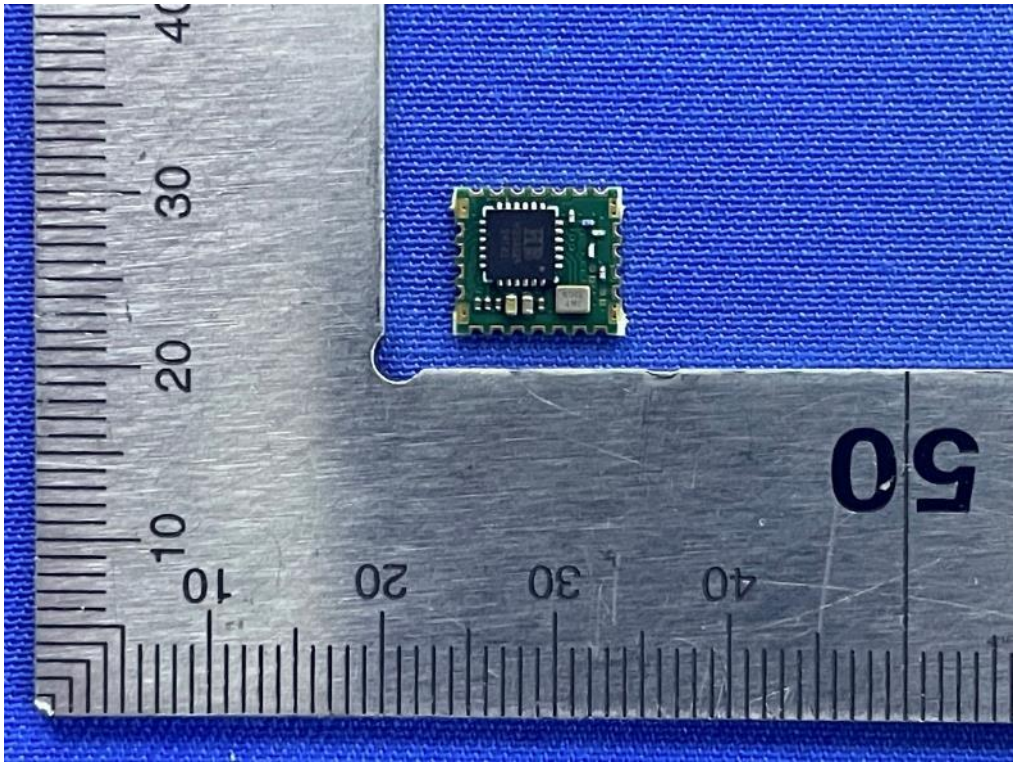
EH-MC35B Model



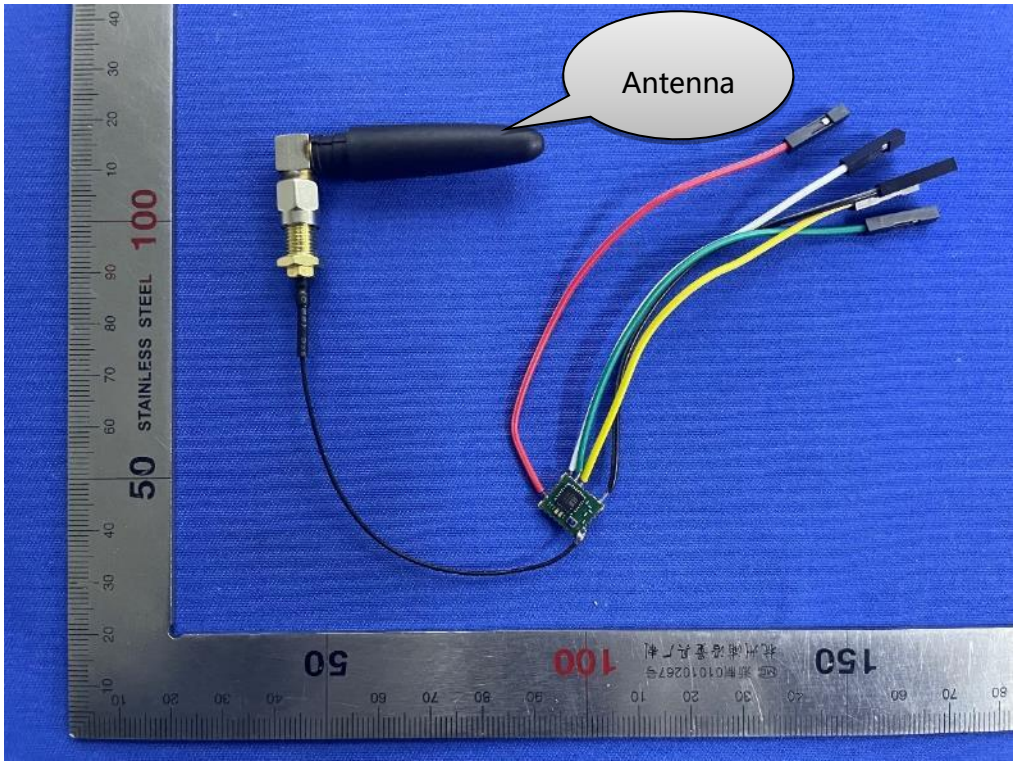
Front of the sample



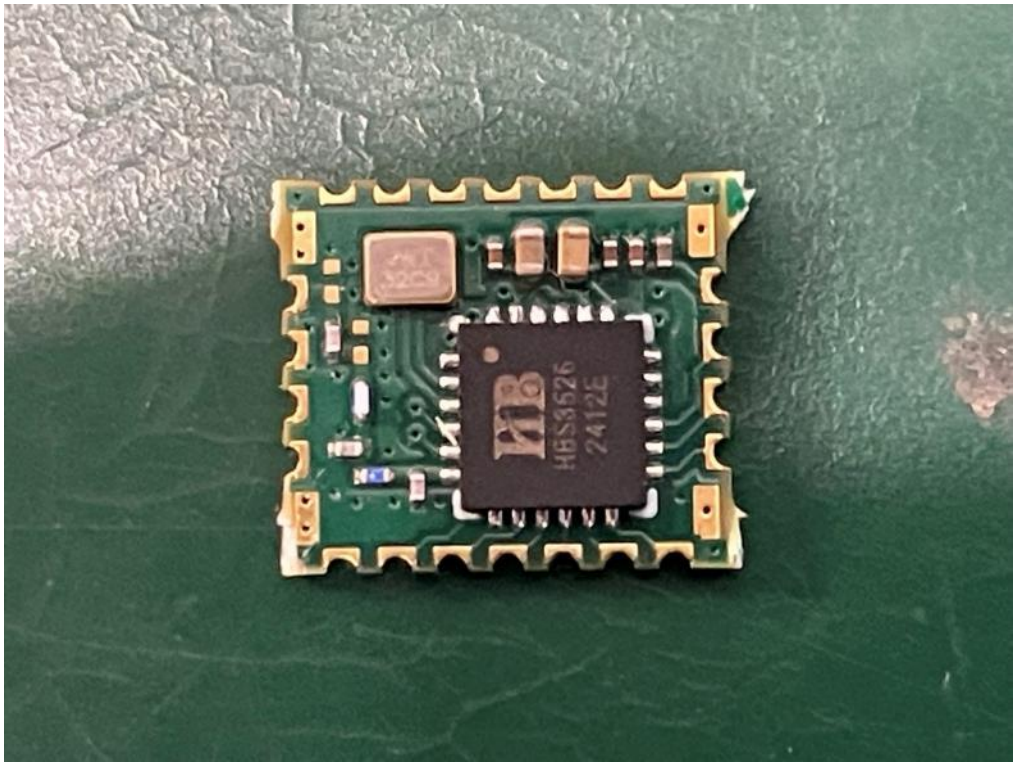
Rear of the sample



Internal of the sample

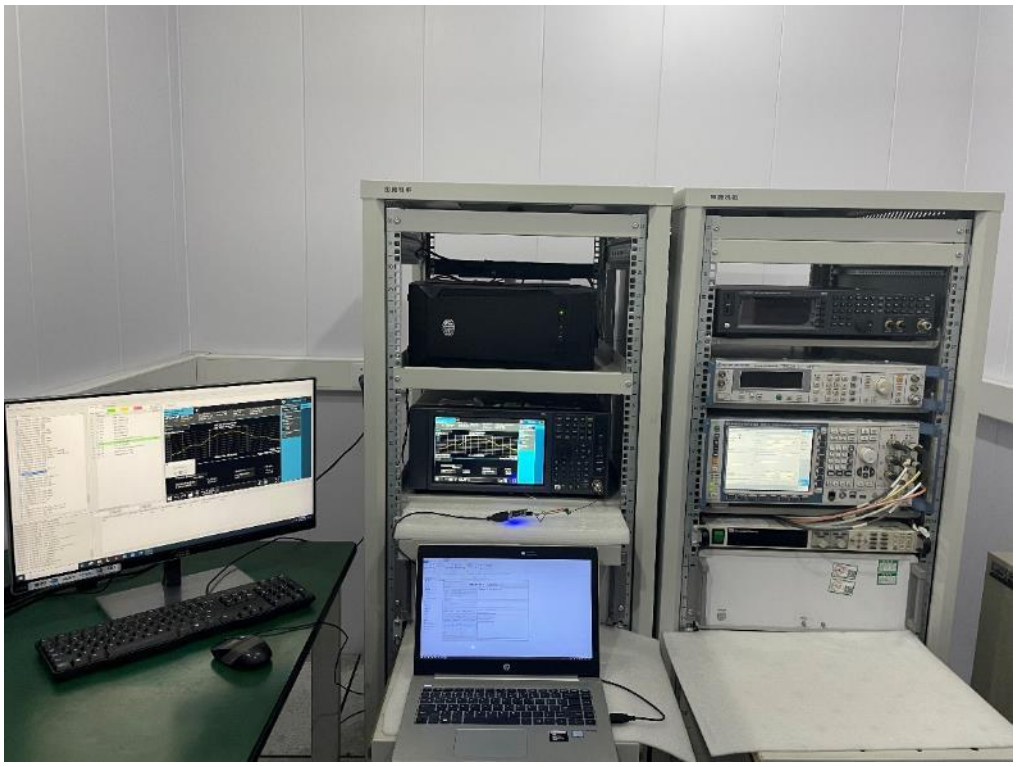


Antenna Position



Chip

5.2 Set-up for Conducted RF test at Antenna Port

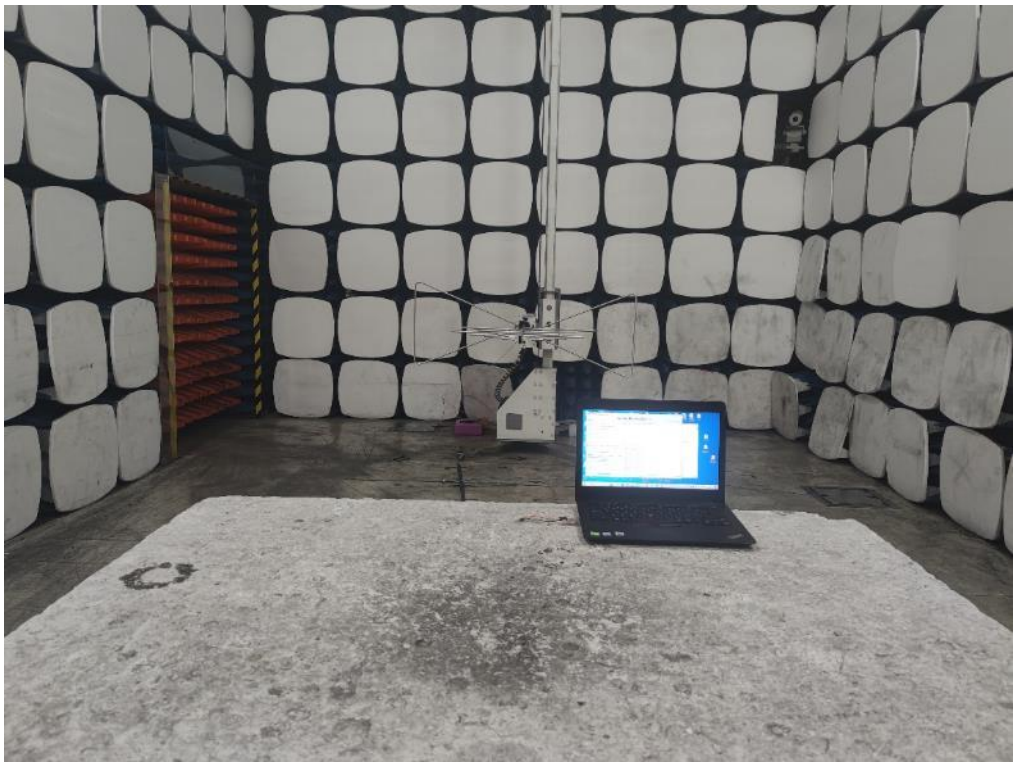


5.3 Set-up for Conducted Emissions

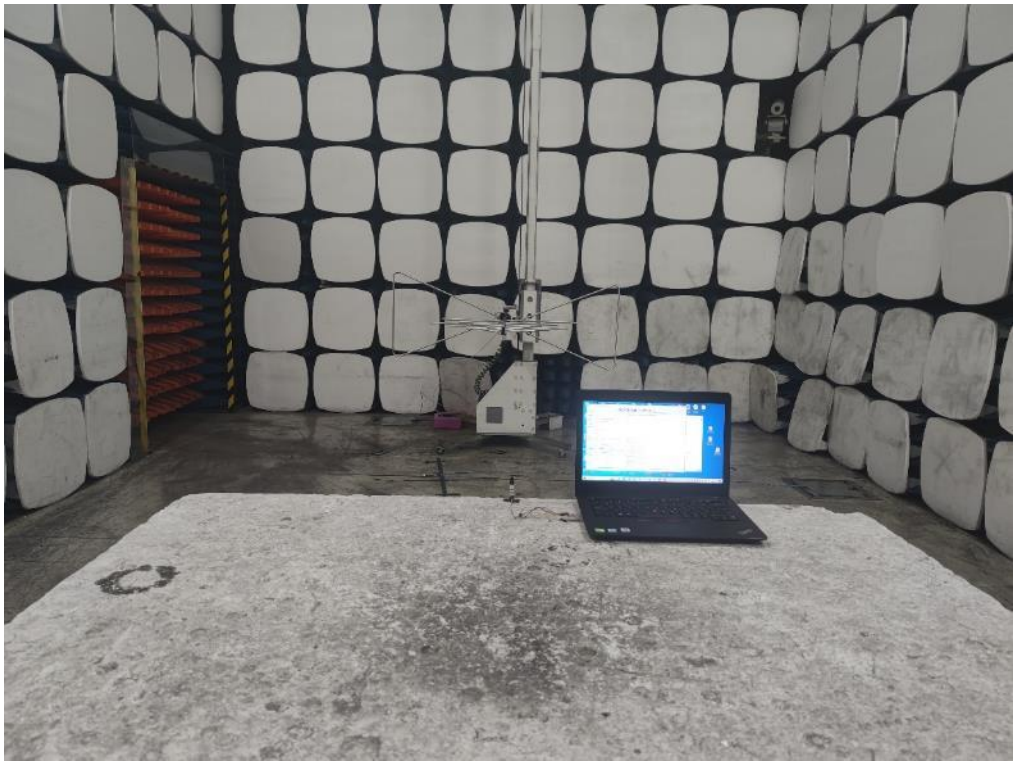
EH-MC35 Model

EH-MC35B Model

5.4 Set-up for Spurious Emissions below 1GHz

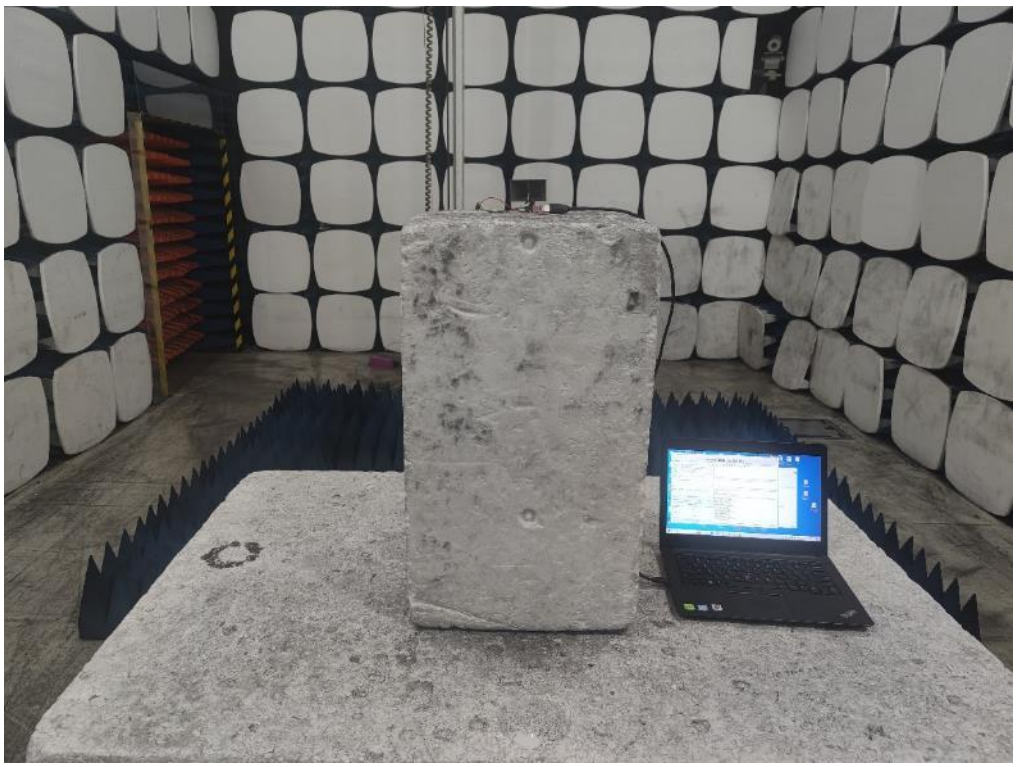


EH-MC35 Model

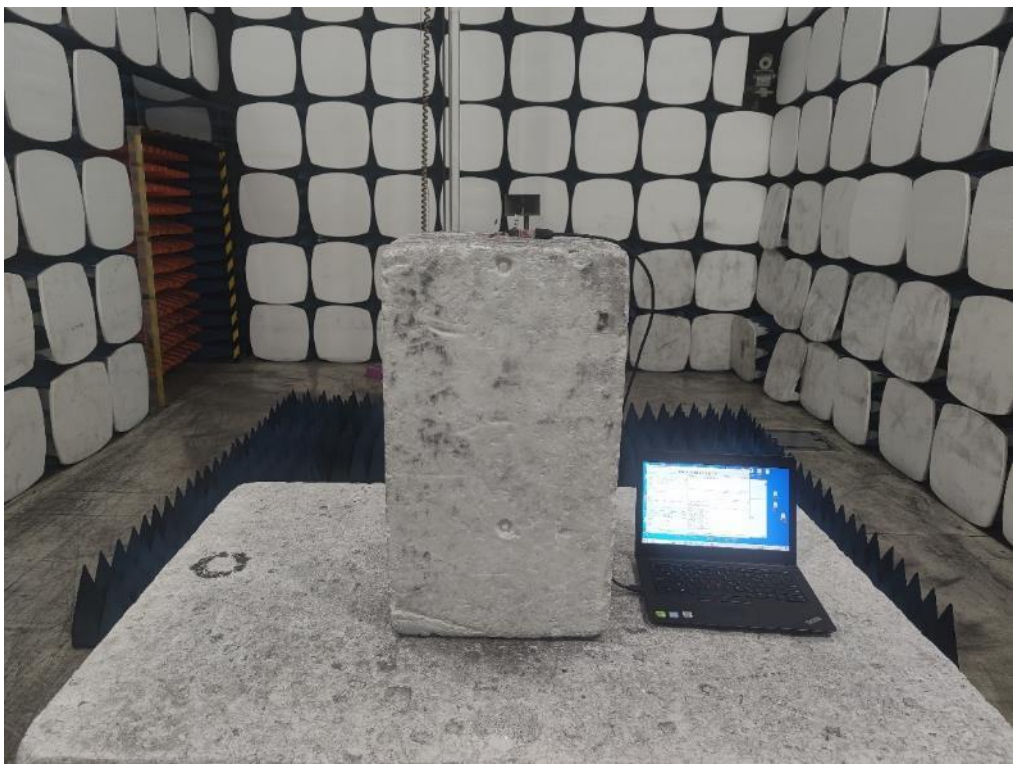


EH-MC35B Model

5.5 Set-up for Spurious Emissions above 1GHz



EH-MC35 Model



EH-MC35B Model

End of the report