

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Aperia Technologies
3160 Corporate Place, Hayward, California 94545, United States

Manufacturer: Aperia Technologies
3160 Corporate Place, Hayward, California 94545, United States

Product Name: Halo Connect

Brand Name: Aperia Technologies

Model No.: GW-35

Model Difference: N/A

Report Number: TERF2307001691E2

FCC ID 2ARY2-HCGW3

IC: 24637-HCGW3

Date of EUT Received: July 4, 2023

Date of Test: July 7, 2023~March 22, 2024

Issue Date: March 27, 2024

Approved By

Arno Hsieh

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2307001691E2	00	Original.	January 3, 2024	Susan Lin	
TERF2307001691E2	01	1. Update applicant's address and antenna information 2. Add internal antenna radiated data	March 27, 2024	Susan Lin	*

Note:

- The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Halo Connect
Brand Name:	Aperia Technologies
Model No.:	GW-35
Model Difference:	N/A
Hardware Version:	V1.0
Firmware Version:	V1.0
EUT Series No.:	31-00001001
Power Supply:	12Vdc
Test Software (Name/Version):	Tera Term 4.106

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 3.04 dBm BLE 2M: 3.01 dBm

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
External Whip Antenna	Taoglas	GW.34.5153	2402~2480	5.89
Primary Embedded Ceramic Antenna	Taoglas	WLA.01	2402~2480	2.57
Secondary Embedded Ceramic Antenna	Taoglas	GWLA.05	2402~2480	1.70

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021), Amendment 1 (March 2019)

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

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1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

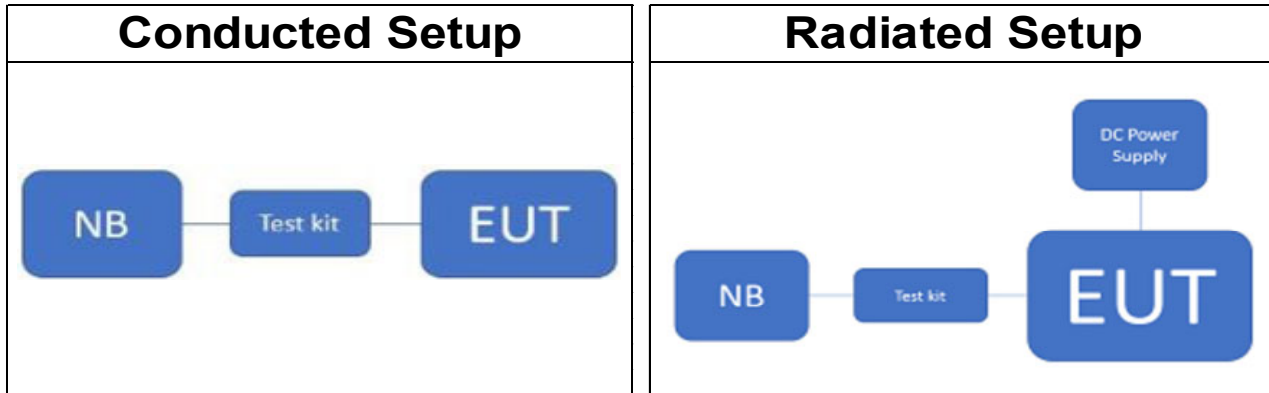
2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	P0001293	N/A	N/A

External Antenna

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Test Kit	N/A	N/A	N/A	N/A	N/A

Internal Antenna

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Test Kit	Waveshare	FT232	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	N/A
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

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CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,19,39	GFSK	1
Bluetooth LE	0 to 39	0,19,39	GFSK	2

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	19	GFSK	1
Bluetooth LE	0 to 39	19	GFSK	2

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,19,39	GFSK	1
Bluetooth LE	0 to 39	0,19,39	GFSK	2

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Conducted emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8	dB
	9kHz~30MHz		
	+/-	4.82	dB
	30MHz - 1000MHz		
Polarization: Horizontal	+/-	4.37	dB
	1GHz - 18GHz		
	+/-	4.21	dB
	18GHz - 40GHz		
Polarization: Horizontal	+/-	2.8	dB
	9kHz~30MHz		
	+/-	4.54	dB
	30MHz - 1000MHz		
Polarization: Horizontal	+/-	4.37	dB
	1GHz - 18GHz		
Polarization: Horizontal	+/-	4.21	dB
	18GHz - 40GHz		

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/20/2023	06/19/2024
Power Meter	Anritsu	ML2496A	2138005	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911395	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911396	09/25/2023	09/24/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF13	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF158	11/15/2023	11/14/2024
Coaxial Cables	Woken	00100A1F2A196C	RF64	11/15/2023	11/14/2024

6.2 Radiated Measurement

External Antenna

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
Loop Antenna	ETS.LINDGREN	6502	143303	05/23/2023	05/22/2024
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2023	04/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
DC Power Supply	DHA	DPS-3003	9411005787	08/21/2023	08/20/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Band Rejection Filter	Micro Tronics	BRM50701-01	RF201	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024

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Internal Antenna

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2023	04/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
DC Power Supply	DHA	DPS-3003	9411005787	08/21/2023	08/20/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Band Rejection Filter	Micro Tronics	BRM50701-01	RF201	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

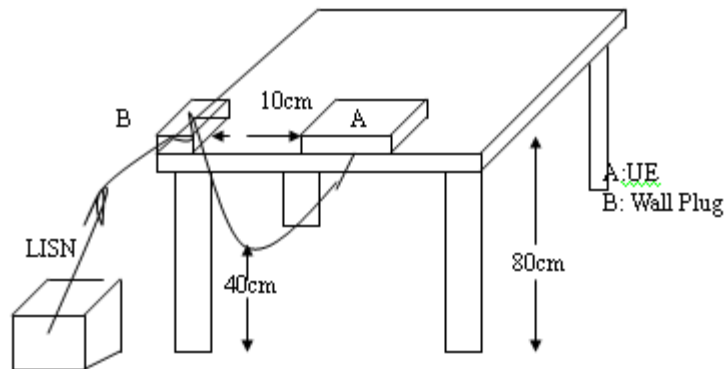
Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120-240Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 Measurement Result:

N/A; Powered from Car battery.

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.1.2 FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

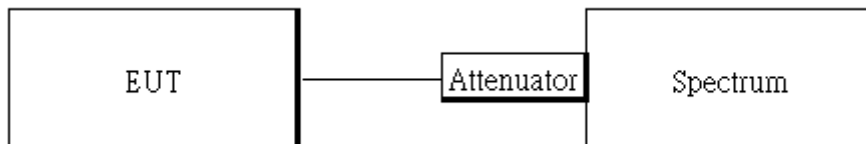
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.1.3 ISED

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W (ISED only).

8.2 Test Setup

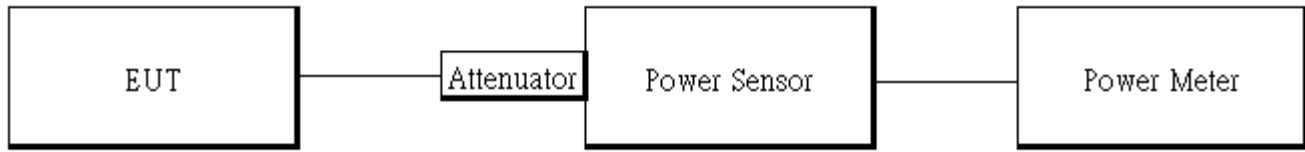
8.2.1 Duty Cycle



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8.2.2 Output Power



8.3 Measurement Procedure:

8.3.1 Duty Cycle

1. Place the EUT on the table and set it in transmitting mode.
2. Set span = Zero
3. RBW = 8MHz, VBW = 8MHz,
4. Detector = Peak

8.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

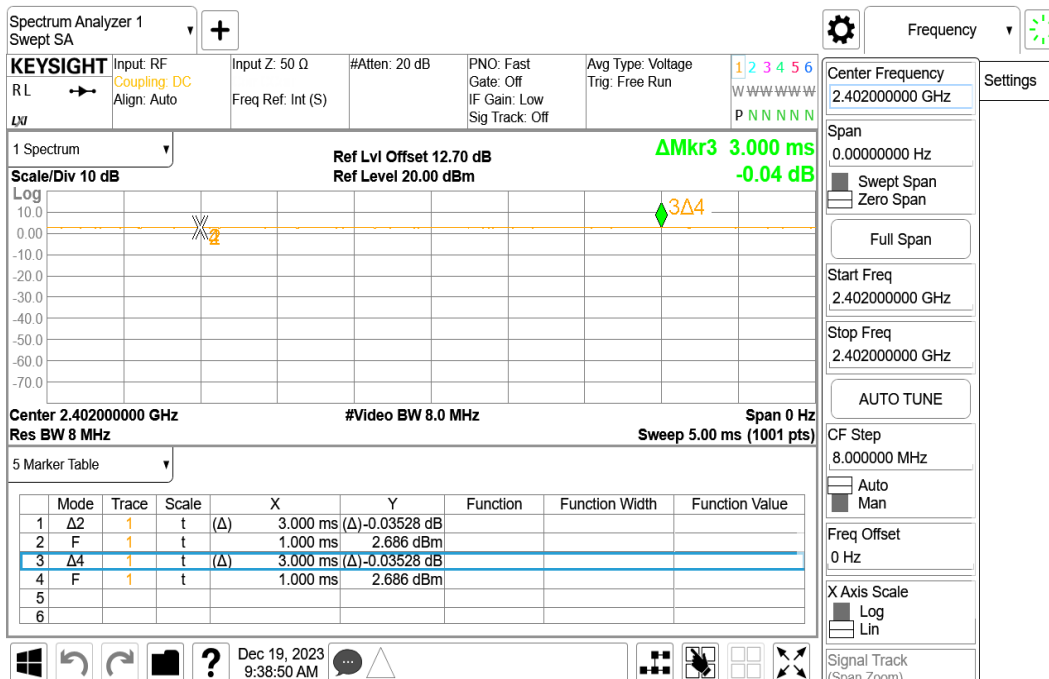
8.4 Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	100.00	0.00	0.01	0.01
BLE 2M	100.00	0.00	0.01	0.01

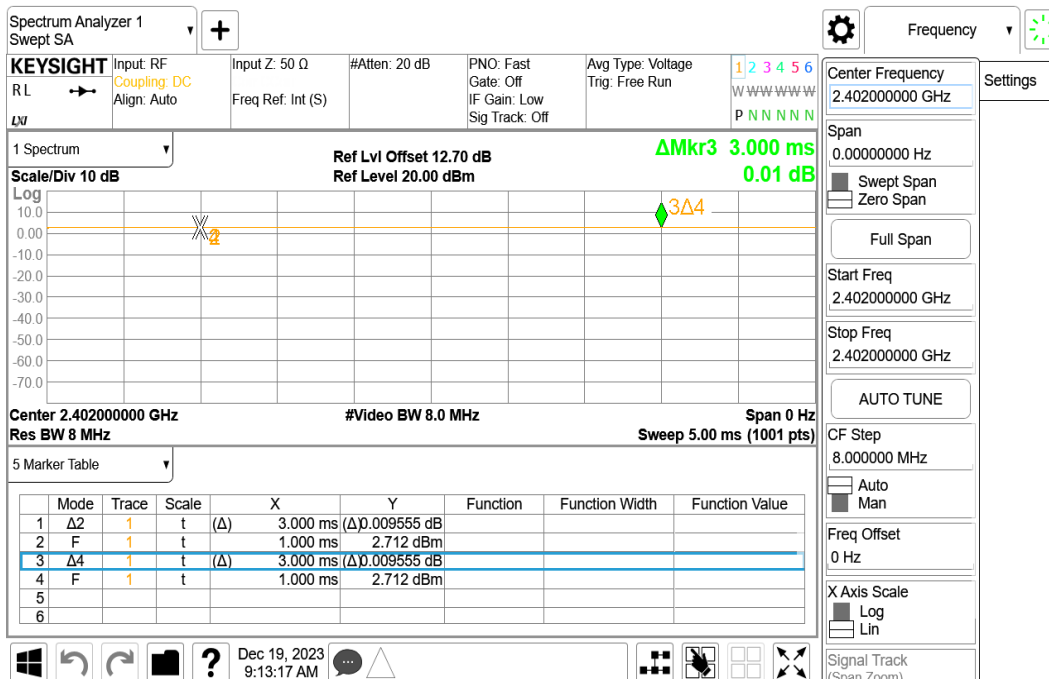
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BLE_1M_LowCH00-2402



BLE_2M_LowCH00-2402



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8.5 Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	3.04	30
Mid	2440	default	2.11	30
High	2480	default	1.22	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	2.86	30
Mid	2440	default	1.88	30
High	2480	default	0.90	30

***Note:**

1. Measured by power meter, cable loss 12.7 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

BLE 2M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	3.01	30
Mid	2440	default	2.07	30
High	2480	default	1.18	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	2.84	30
Mid	2440	default	1.84	30
High	2480	default	0.87	30

***Note:**

1. Measured by power meter, cable loss 12.7 dB + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

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8.5.2 EIRP

EIRP BLE 1M mode

CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	2.86	5.89	8.75	4W= 36 dBm
Mid	2440	default	1.88	5.89	7.77	4W= 36 dBm
High	2480	default	0.90	5.89	6.79	4W= 36 dBm

* **Note:** EIRP = Average Power + Gain

EIRP BLE 2M mode

CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	2.84	5.89	8.73	4W= 36 dBm
Mid	2440	default	1.84	5.89	7.73	4W= 36 dBm
High	2480	default	0.87	5.89	6.76	4W= 36 dBm

* **Note:** EIRP = Average Power + Gain

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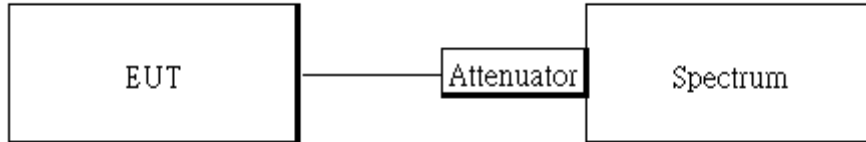
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz .

9.2 Test Setup



9.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
 RBW= 100 kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
 RBW= 1 % to 5% of 99%,
 VBW ≥ 3 X RBW,
 Span= large enough to capture all products of the modulation process
 Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99%.
4. Repeat above procedures until all test default channel is completed.

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9.4 Measurement Result:

9.4.1 6dB BW measurements

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7962	≥ 0.5	PASS
2440	0.7644	≥ 0.5	PASS
2480	0.7418	≥ 0.5	PASS

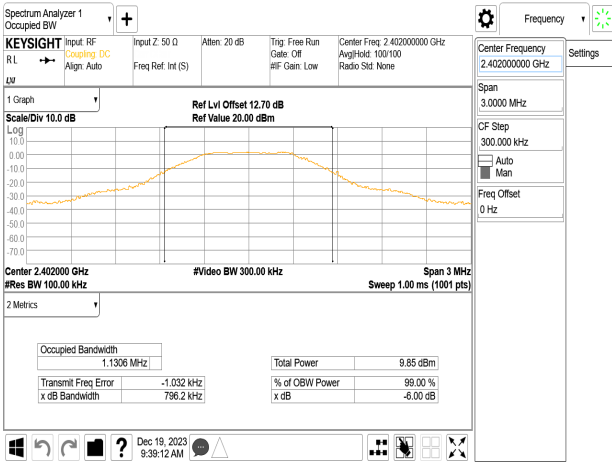
BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.422	≥ 0.5	PASS
2440	1.376	≥ 0.5	PASS
2480	1.369	≥ 0.5	PASS

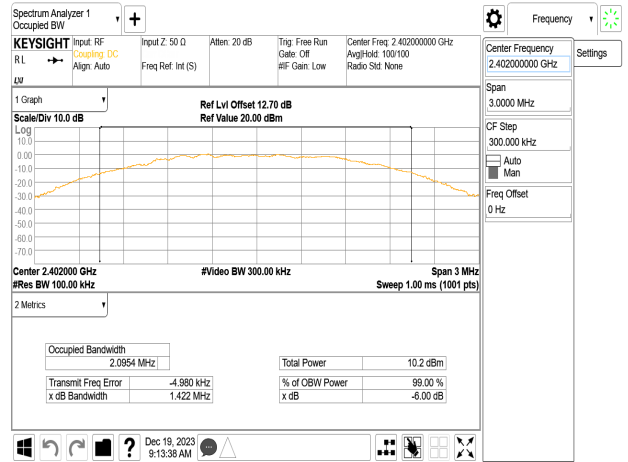
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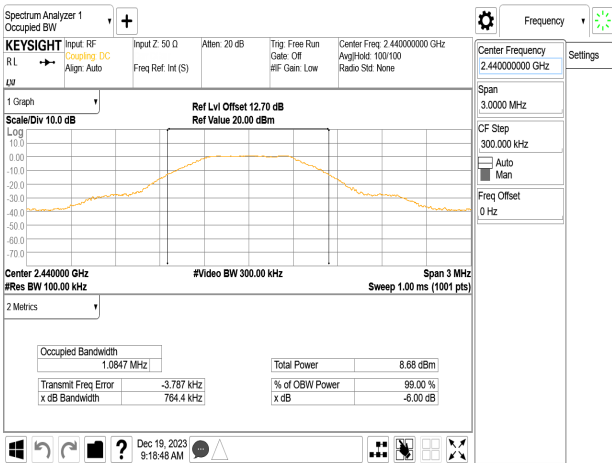
OBW_BLE 1M_LowCH00-2402MHz



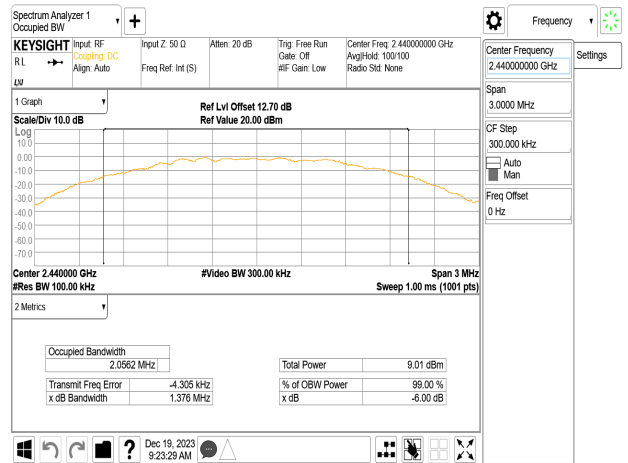
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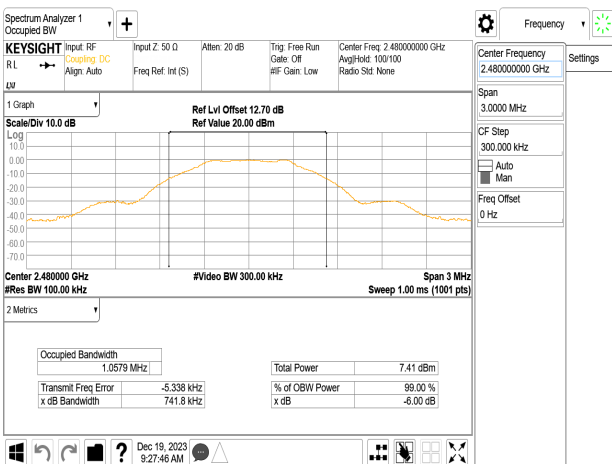
OBW_BLE 1M_MidCH19-2440MHz



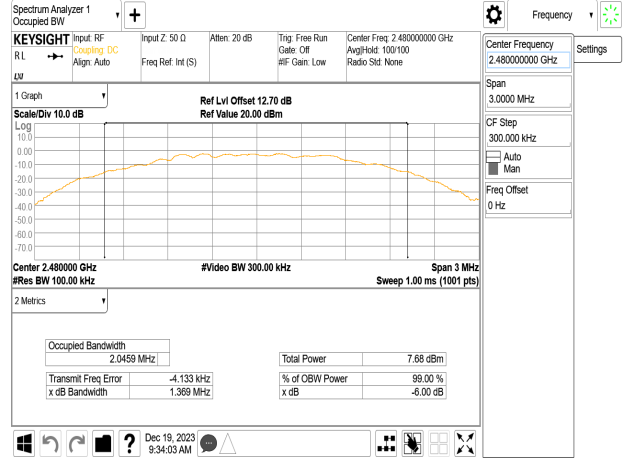
OBW_BLE 2M_MidCH19-2440MHz



OBW_BLE 1M_HighCH39-2480MHz



OBW_BLE 2M_HighCH39-2480MHz



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9.4.2 99% Bandwidth

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0912
2440	1.0617
2480	1.0349

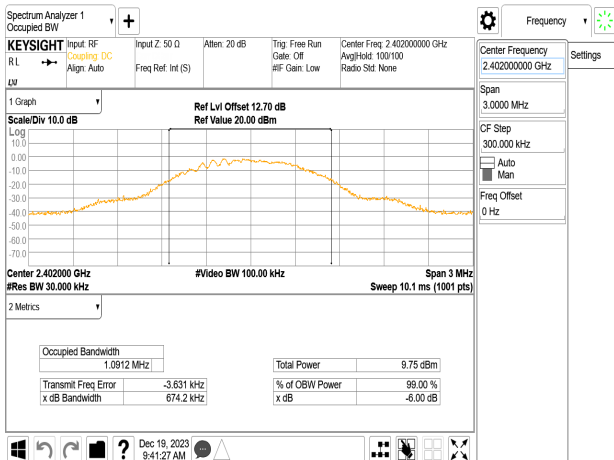
BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.1005
2440	2.0634
2480	2.0551

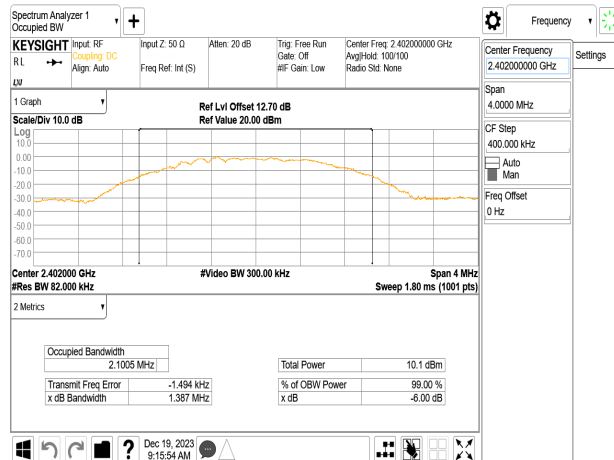
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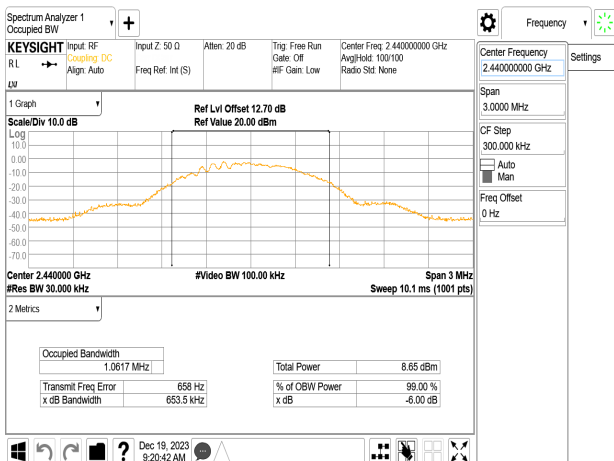
IC OBW_BLE 1M_LowCH00-2402MHz



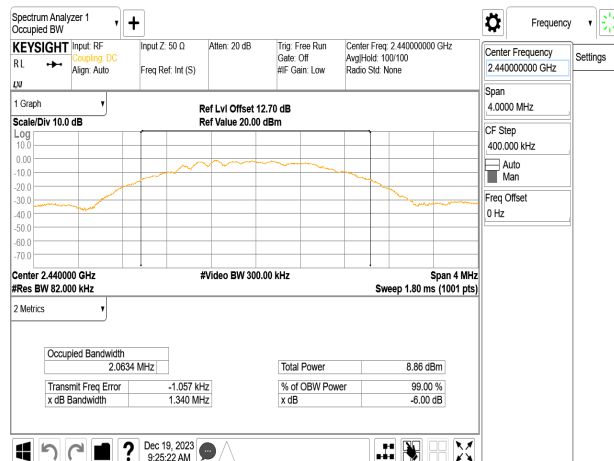
IC OBW_BLE 2M_LowCH00-2402MHz



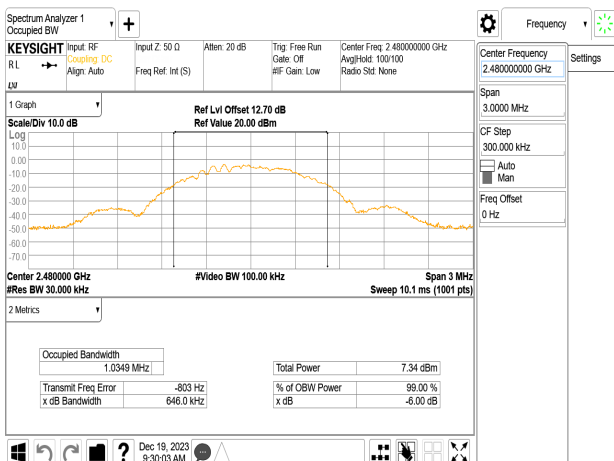
IC OBW_BLE 1M_MidCH19-2440MHz



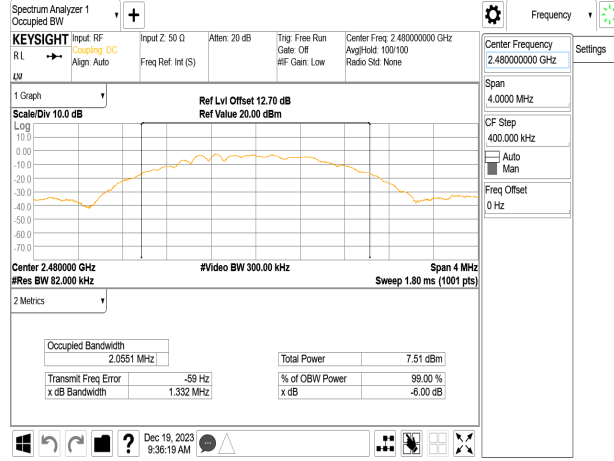
IC OBW_BLE 2M_MidCH19-2440MHz



IC OBW_BLE 1M_HighCH39-2480MHz



IC OBW_BLE 2M_HighCH39-2480MHz



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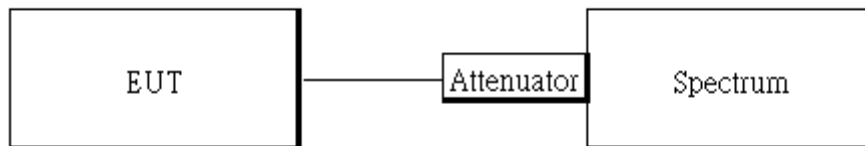
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

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4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Set DL as the limit = reading on marker of reference level measurement – 20dBm
7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
8. Repeat above procedures until all default test channel (low and high) was complete.

10.3.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set RBW = 100 kHz & VBW=300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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10.4 Measurement Result

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	1.83	-18.17
2440	0.89	-19.11
2480	-0.18	-20.18

***Note:**

- 1.cable loss as 12.7dB that offsets in the spectrum
- 2.Refer to next page for plots.

BLE 2M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	0.31	-19.69
2440	-0.54	-20.54
2480	-2.06	-22.06

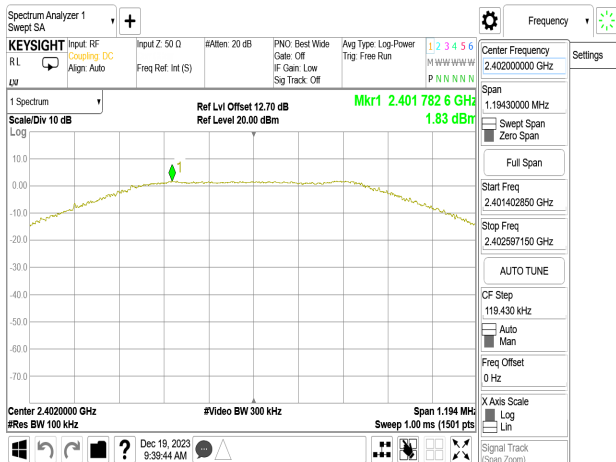
***Note:**

- 1.cable loss as 12.7dB that offsets in the spectrum
- 2.Refer to next page for plots.

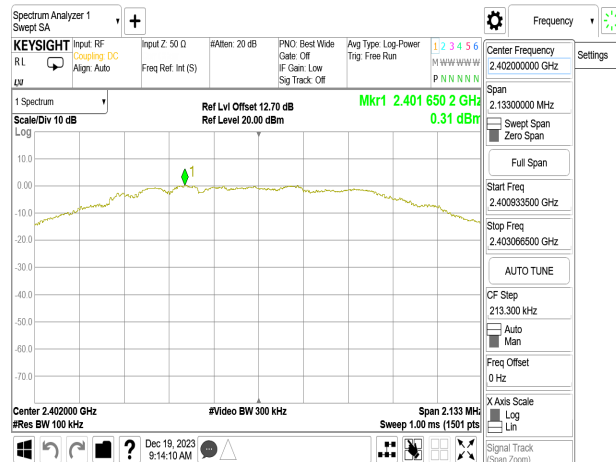
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Reference Level_BLE 1M_LowCH00-2402MHz



Reference Level_BLE 2M_LowCH00-2402MHz



Reference Level_BLE 1M_MidCH19-2440MHz



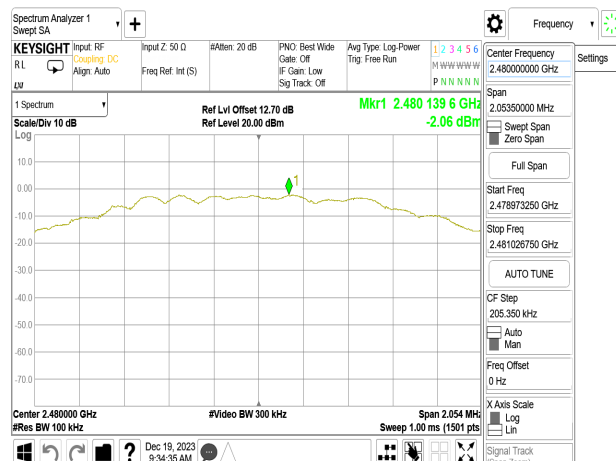
Reference Level_BLE 2M_MidCH19-2440MHz



Reference Level_BLE 1M_HighCH39-2480MHz



Reference Level_BLE 2M_HighCH39-2480MHz

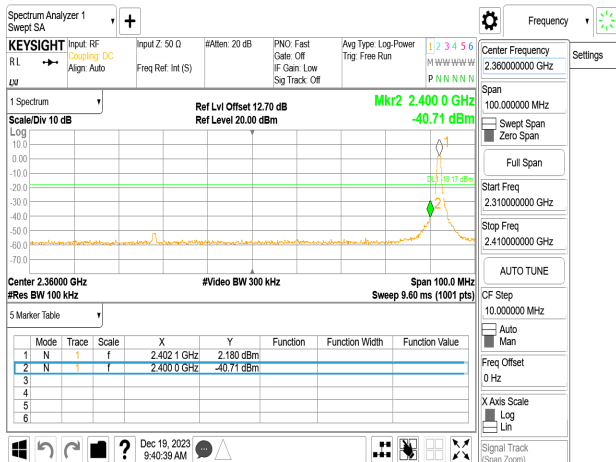


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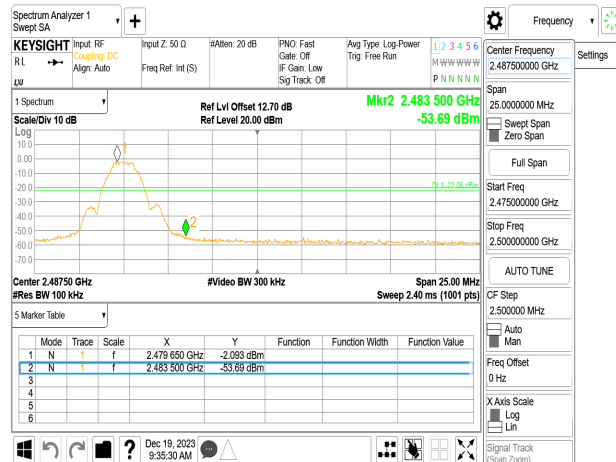
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Band Edge_BLE 1M_LowCH00-2402MHz



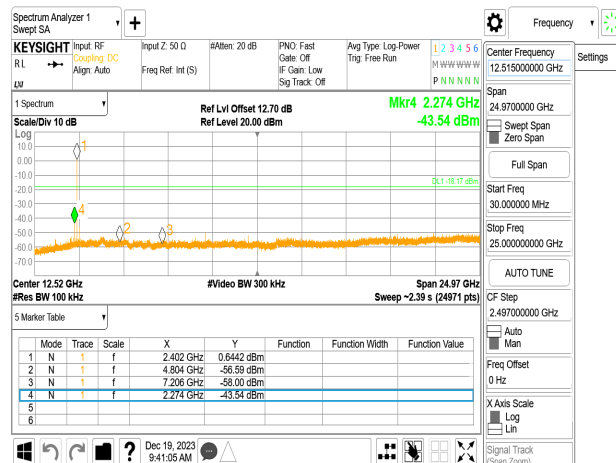
Band Edge_BLE 2M_HighCH39-2480MHz



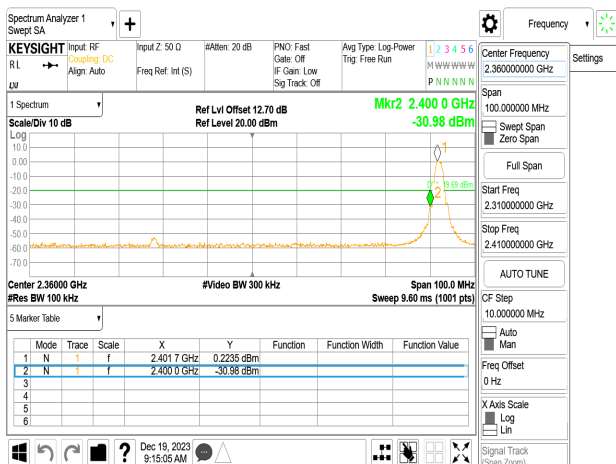
Band Edge_BLE 1M_HighCH39-2480MHz



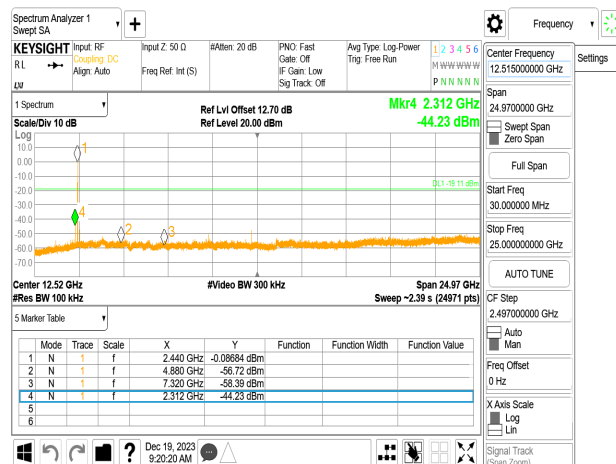
Spurious Emission_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH19-2440MHz

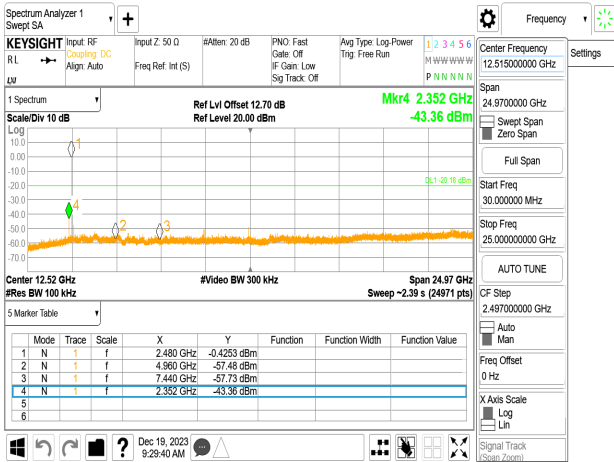


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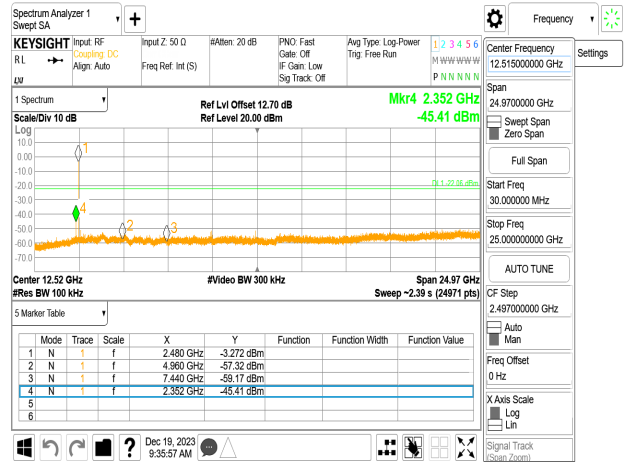
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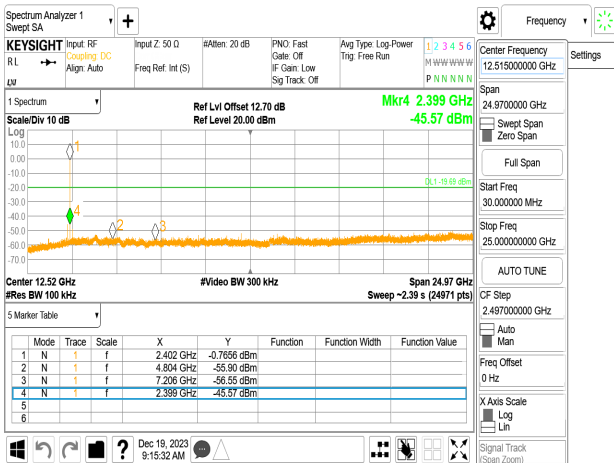
Spurious Emission_BLE 1M_HighCH39-2480MHz



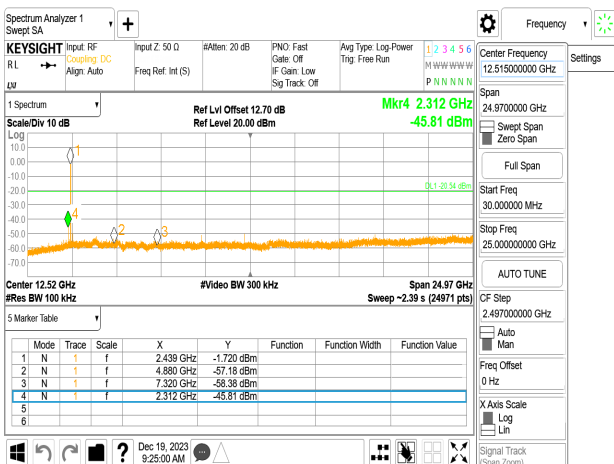
Spurious Emission_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH19-2440MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

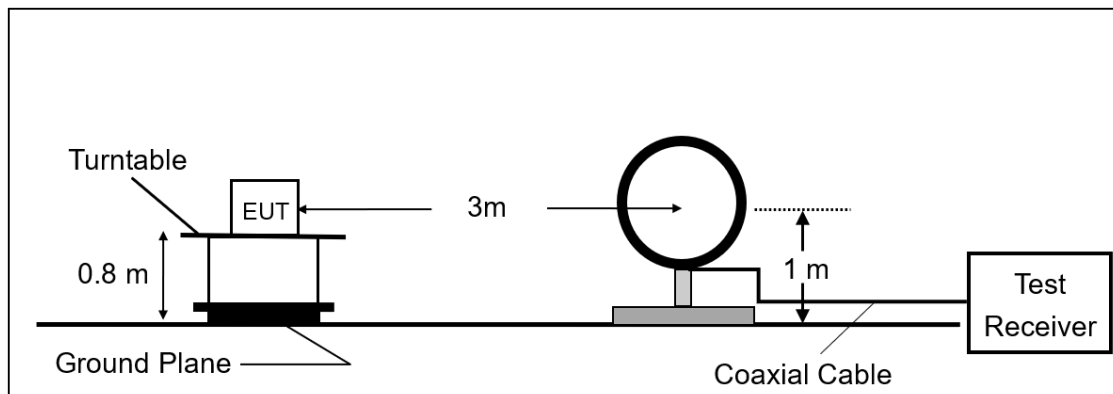
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

11.2 Test Setup

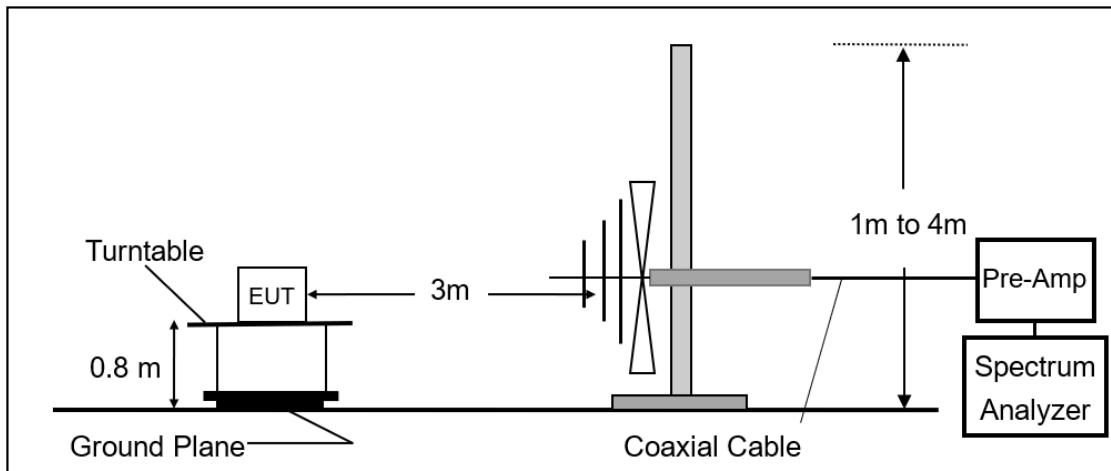
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



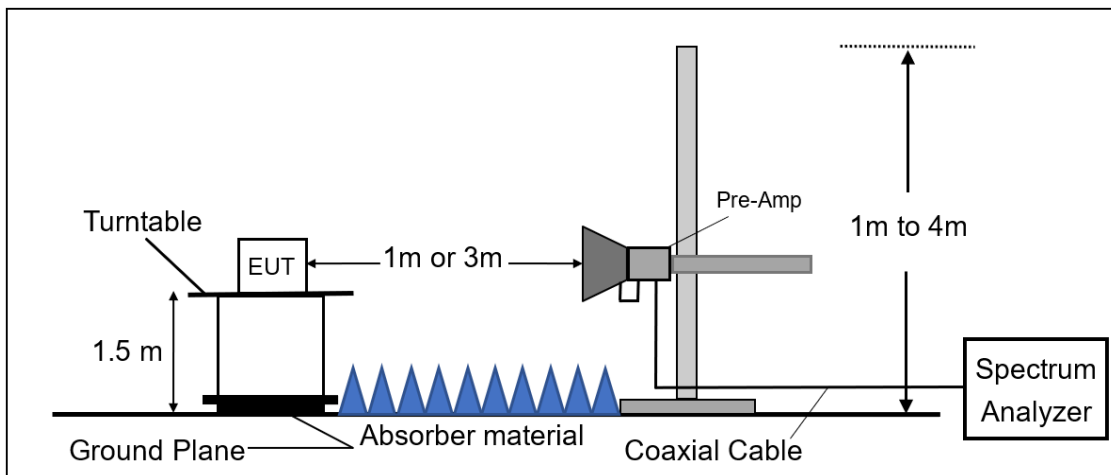
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



11.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS = Field Strength* *CL = Cable Attenuation Factor (Cable Loss)*
RA = Reading Amplitude *AG = Amplifier Gain*
AF = Antenna Factor

*The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)*

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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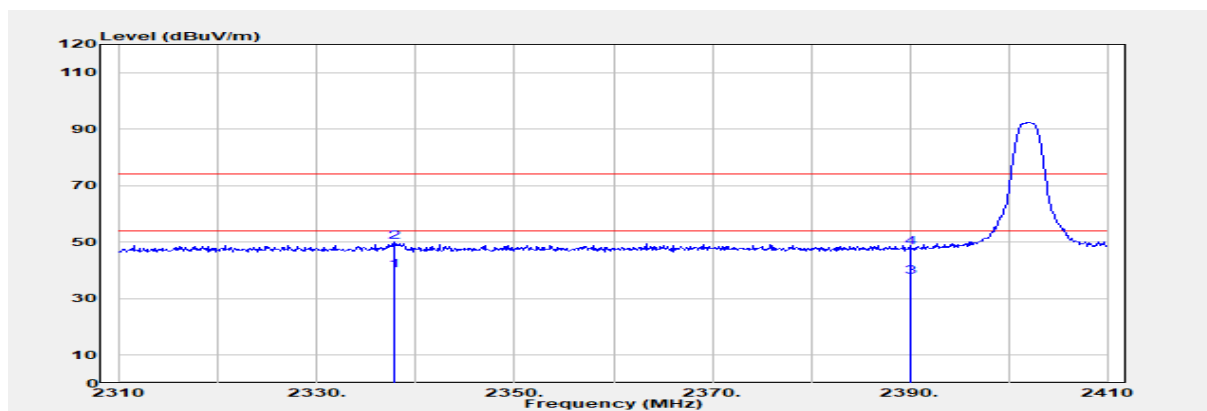
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11.6 Measurement Result:

11.6.1 Radiated Band Edge Measurement Result

External Antenna

Report Number	:TERF2307001691E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2023-12-22
Test Frequency	:2402 MHz	Temp./Humi.	:23.5°C/56%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



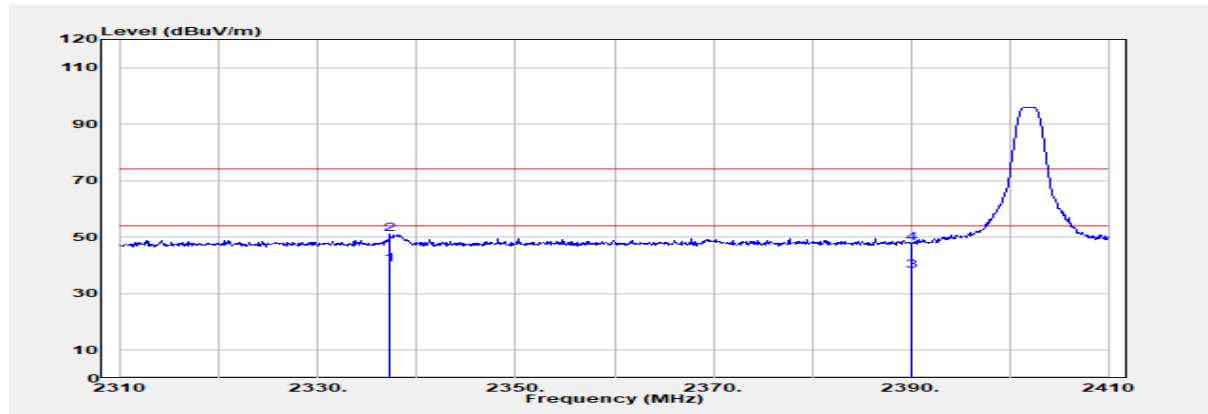
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2337.800	Average	44.97	-4.87	40.10	54.00	-13.90
2337.800	Peak	54.85	-4.87	49.98	74.00	-24.02
2390.000	Average	42.34	-4.58	37.75	54.00	-16.25
2390.000	Peak	52.64	-4.58	48.06	74.00	-25.94

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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



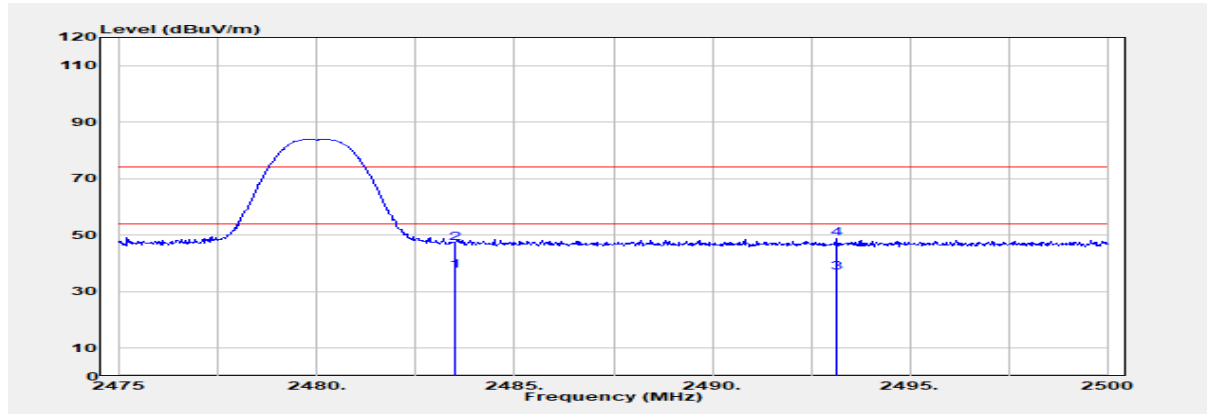
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2337.300	Average	45.08	-4.87	40.21	54.00	-13.79
2337.300	Peak	55.86	-4.87	50.98	74.00	-23.02
2390.000	Average	42.62	-4.58	38.04	54.00	-15.96
2390.000	Peak	52.36	-4.58	47.77	74.00	-26.23

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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	42.62	-5.30	37.32	54.00	-16.68
2483.500	Peak	52.40	-5.30	47.10	74.00	-26.90
2493.150	Average	42.10	-5.38	36.72	54.00	-17.28
2493.150	Peak	54.18	-5.38	48.80	74.00	-25.20

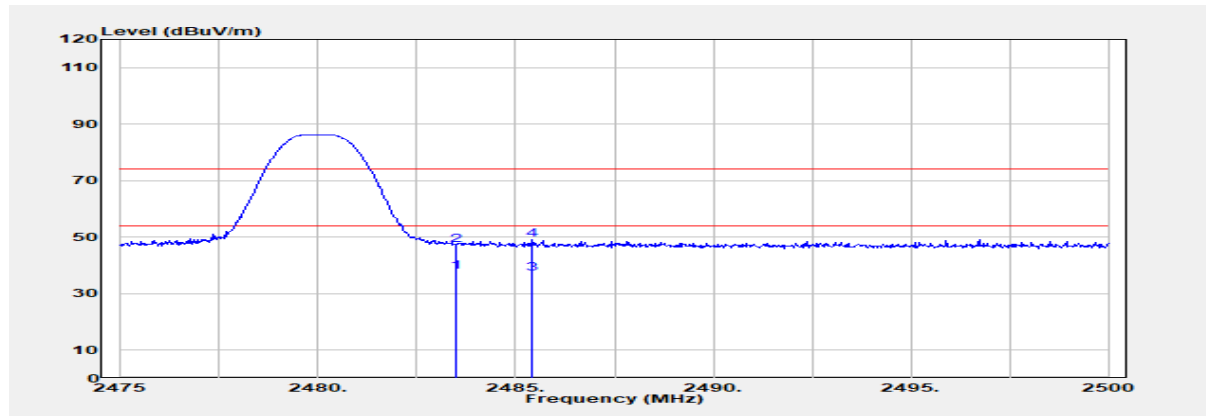
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.02	-5.30	37.72	54.00	-16.28
2483.500	Peak	52.57	-5.30	47.26	74.00	-26.74
2485.425	Average	42.46	-5.32	37.14	54.00	-16.86
2485.425	Peak	54.33	-5.32	49.01	74.00	-24.99

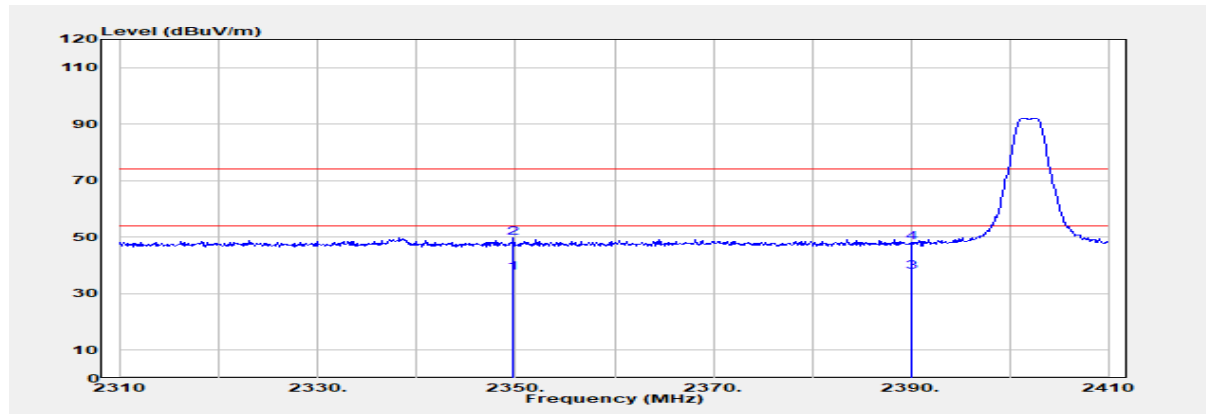
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2349.800	Average	42.23	-4.84	37.39	54.00	-16.61
2349.800	Peak	54.63	-4.84	49.80	74.00	-24.20
2390.000	Average	42.31	-4.58	37.73	54.00	-16.27
2390.000	Peak	52.58	-4.58	47.99	74.00	-26.01

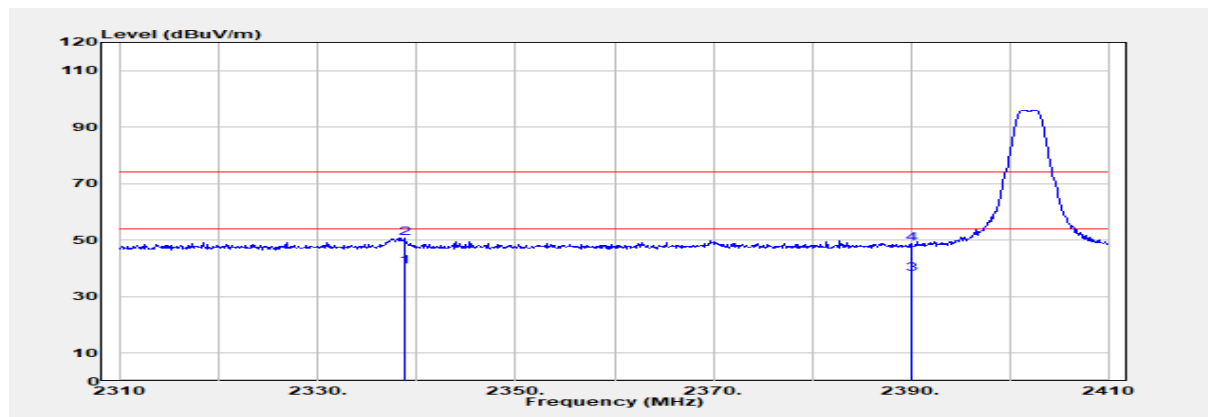
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



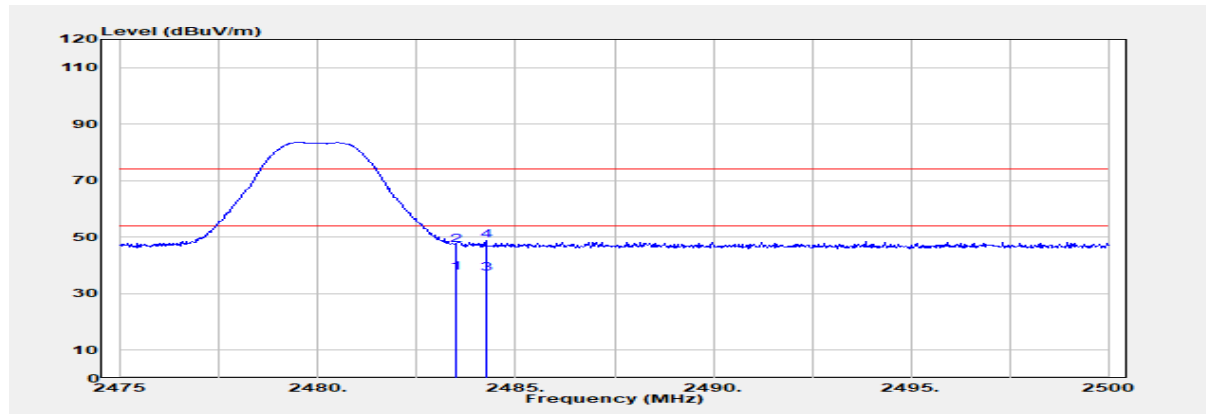
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2338.700	Average	45.41	-4.87	40.54	54.00	-13.46
2338.700	Peak	55.54	-4.87	50.67	74.00	-23.33
2390.000	Average	42.50	-4.58	37.92	54.00	-16.08
2390.000	Peak	53.30	-4.58	48.72	74.00	-25.28

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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	42.81	-5.30	37.51	54.00	-16.49
2483.500	Peak	52.55	-5.30	47.24	74.00	-26.76
2484.250	Average	42.39	-5.31	37.08	54.00	-16.92
2484.250	Peak	53.98	-5.31	48.66	74.00	-25.34

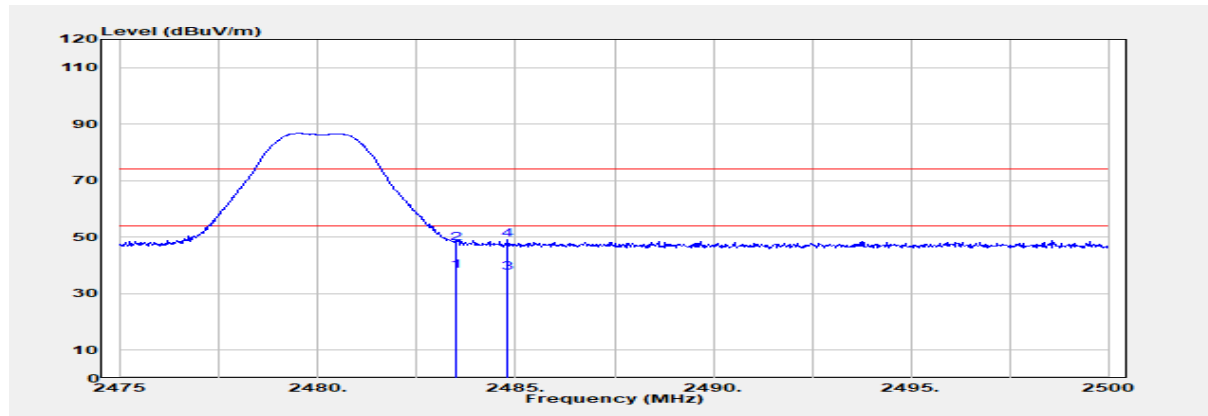
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	43.36	-5.30	38.05	54.00	-15.95
2483.500	Peak	53.22	-5.30	47.91	74.00	-26.09
2484.800	Average	42.79	-5.31	37.47	54.00	-16.53
2484.800	Peak	54.30	-5.31	48.98	74.00	-25.02

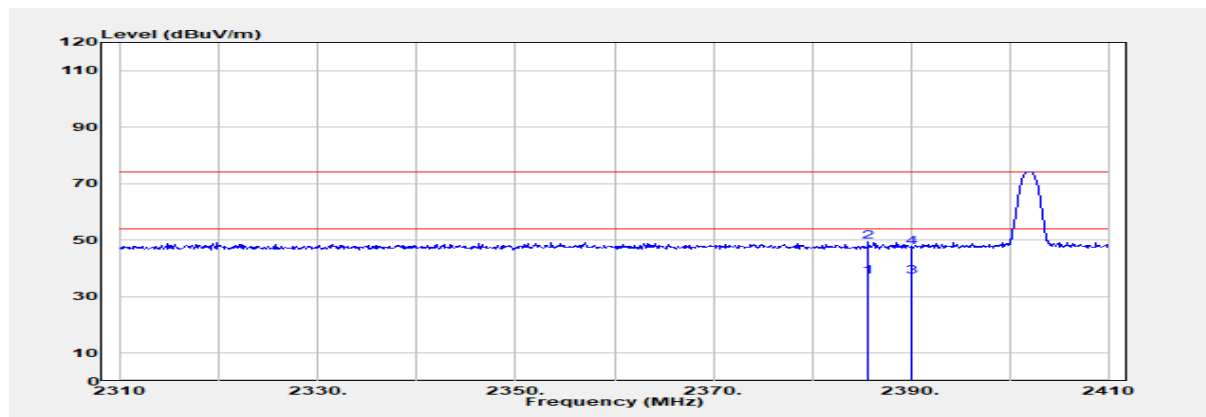
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Internal Antenna

Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



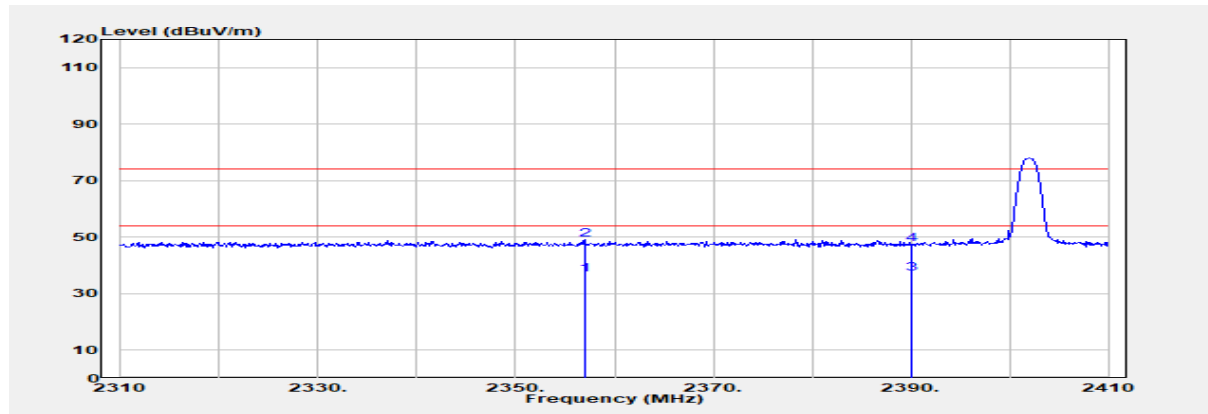
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2385.700	Average	41.71	-4.61	37.10	54.00	-16.90
2385.700	Peak	53.89	-4.61	49.28	74.00	-24.72
2390.000	Average	41.72	-4.58	37.14	54.00	-16.86
2390.000	Peak	51.93	-4.58	47.35	74.00	-26.65

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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2357.000	Average	41.54	-4.79	36.75	54.00	-17.25
2357.000	Peak	53.95	-4.79	49.15	74.00	-24.85
2390.000	Average	41.62	-4.58	37.04	54.00	-16.96
2390.000	Peak	52.00	-4.58	47.42	74.00	-26.58

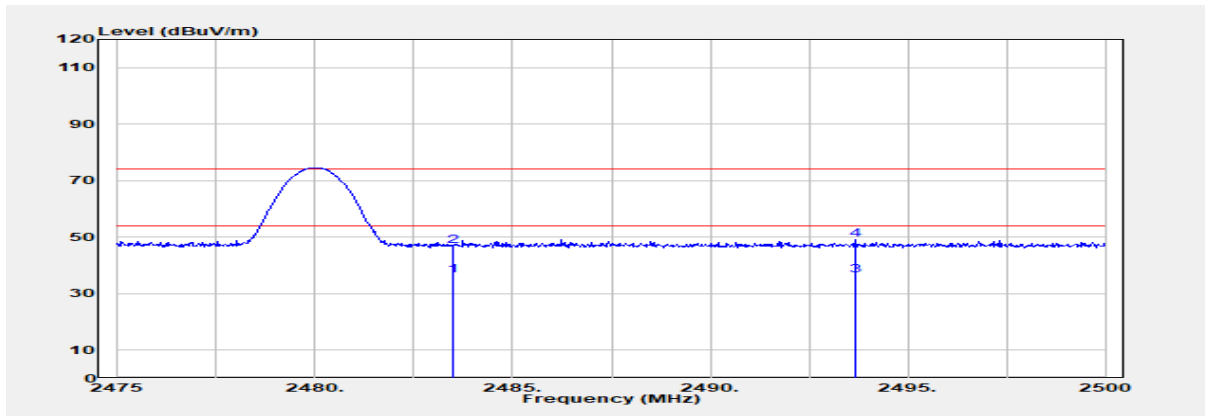
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Average	41.87	-5.30	36.56	54.00	-17.44
2483.500	Peak	52.16	-5.30	46.85	74.00	-27.15
2493.675	Average	41.88	-5.38	36.49	54.00	-17.51
2493.675	Peak	54.55	-5.38	49.17	74.00	-24.83

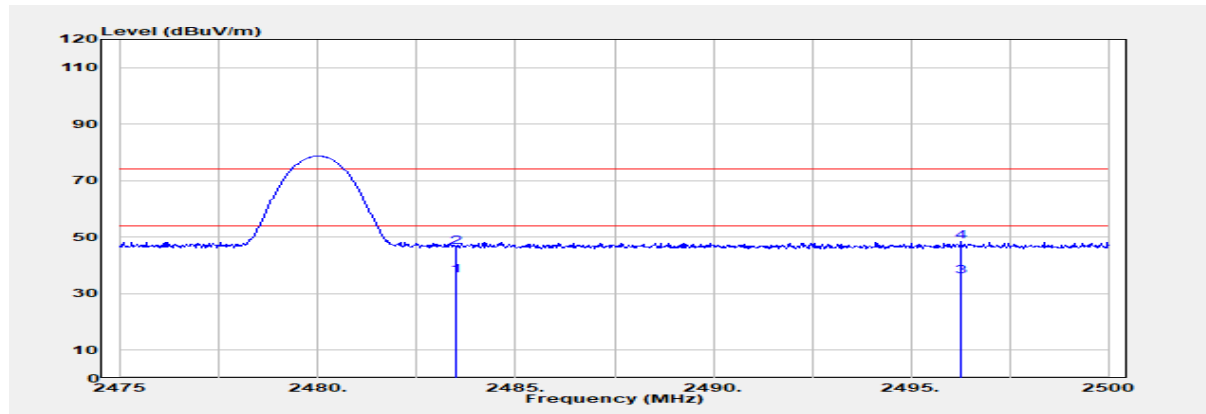
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.500	Average	41.62	-5.30	36.31	54.00	-17.69
2483.500	Peak	51.89	-5.30	46.58	74.00	-27.42
2496.275	Average	41.51	-5.40	36.10	54.00	-17.90
2496.275	Peak	53.85	-5.40	48.44	74.00	-25.56

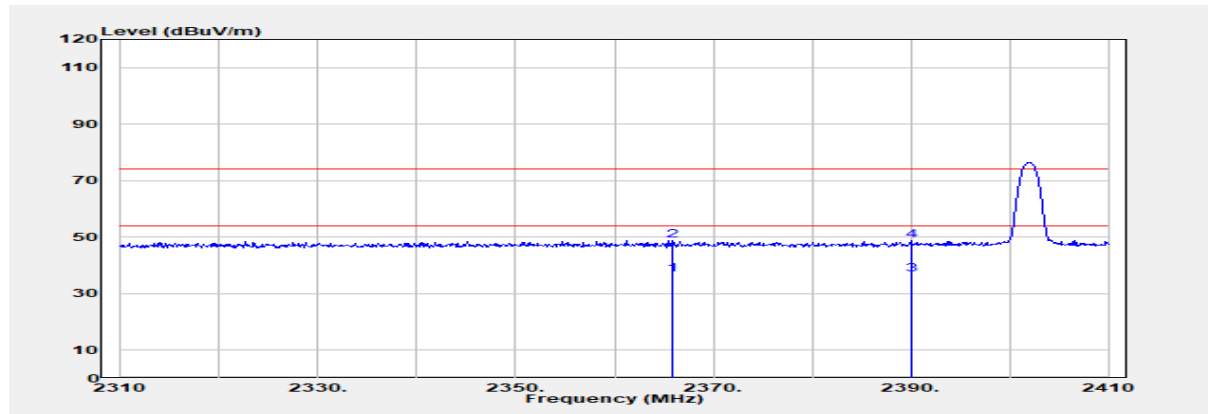
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2365.800	Average	41.52	-4.74	36.78	54.00	-17.22
2365.800	Peak	53.67	-4.74	48.94	74.00	-25.06
2390.000	Average	41.33	-4.58	36.75	54.00	-17.25
2390.000	Peak	53.28	-4.58	48.69	74.00	-25.31

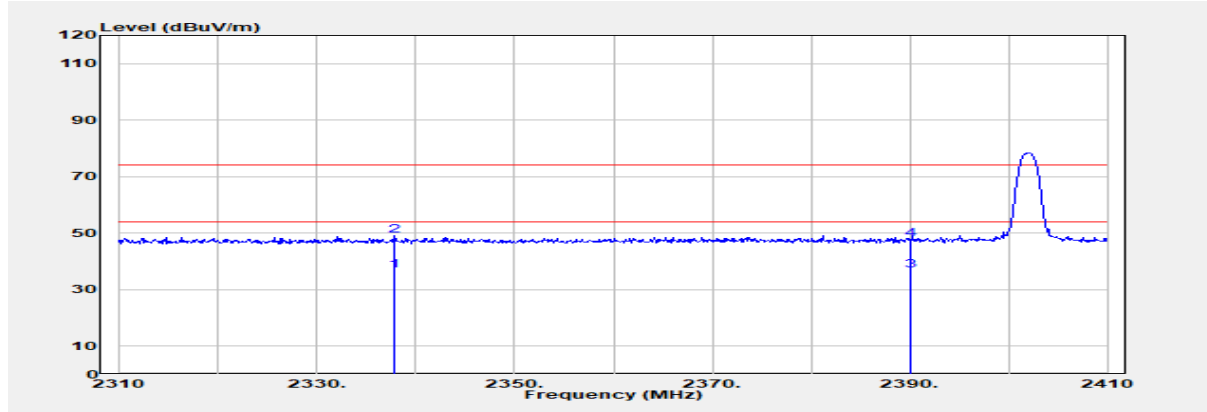
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2337.800	Average	41.63	-4.87	36.76	54.00	-17.24
2337.800	Peak	53.97	-4.87	49.09	74.00	-24.91
2390.000	Average	41.39	-4.58	36.80	54.00	-17.20
2390.000	Peak	52.41	-4.58	47.82	74.00	-26.18

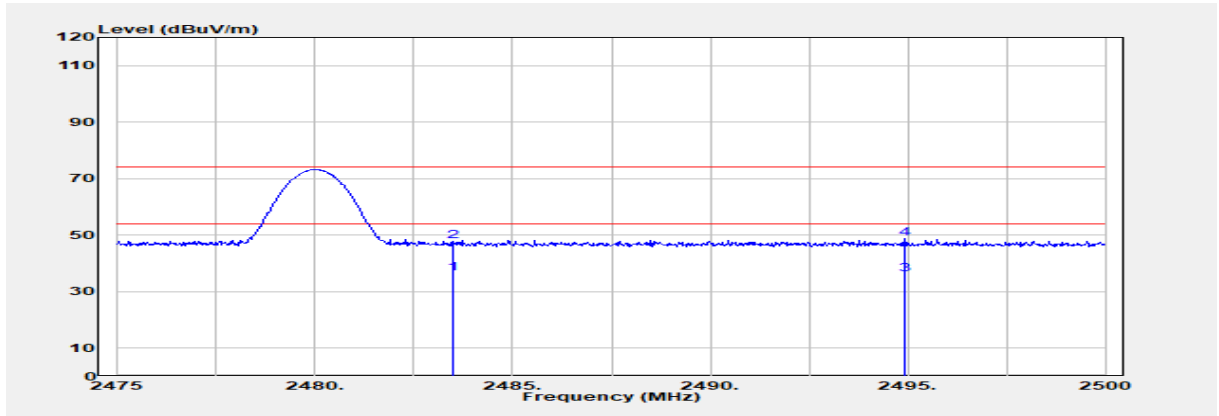
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	41.59	-5.30	36.29	54.00	-17.71
2483.500	Peak	53.13	-5.30	47.82	74.00	-26.18
2494.925	Average	41.52	-5.39	36.12	54.00	-17.88
2494.925	Peak	54.11	-5.39	48.72	74.00	-25.28

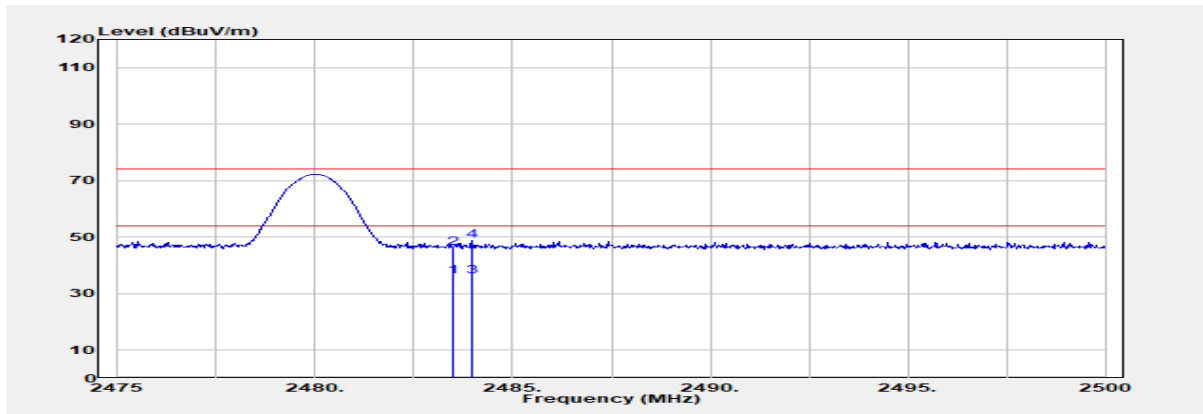
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6°C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	41.51	-5.30	36.21	54.00	-17.79
2483.500	Peak	51.49	-5.30	46.18	74.00	-27.82
2483.975	Average	41.44	-5.31	36.13	54.00	-17.87
2483.975	Peak	53.94	-5.31	48.63	74.00	-25.37

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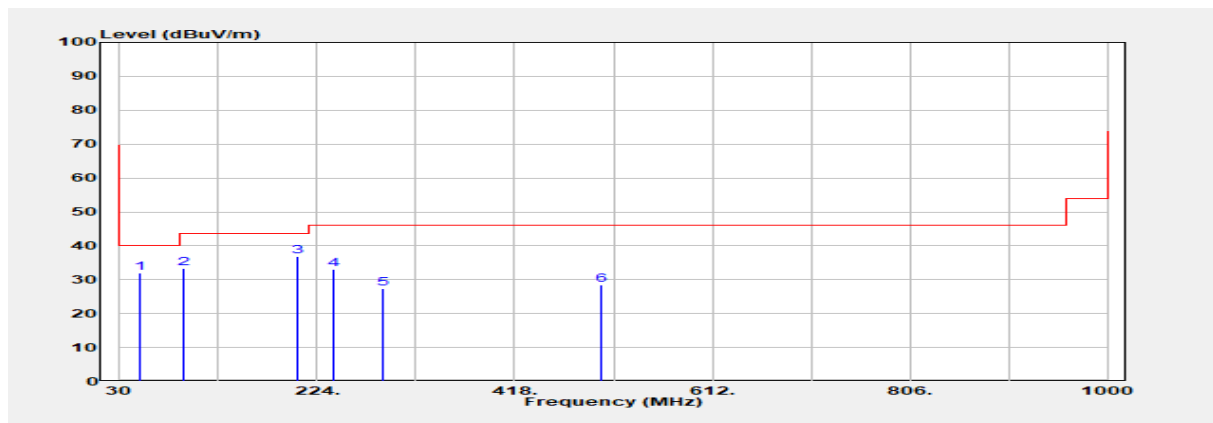
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11.6.2 Radiated Spurious Emission

External Antenna

Report Number	:TERF2307001691E2	Test Site	:SAC D
Operation Mode	:BLE 1M	Test Date	:2023-12-22
Test Frequency	:2440 MHz	Temp./Humi.	:23.5°C/56%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
49.400	Peak	49.09	-17.00	32.09	40.00	-7.91
92.080	Peak	56.16	-22.84	33.32	43.50	-10.18
204.600	Peak	56.82	-20.07	36.75	43.50	-6.75
240.490	Peak	50.92	-17.85	33.07	46.00	-12.93
288.020	Peak	43.58	-16.12	27.45	46.00	-18.55
503.360	Peak	39.79	-11.21	28.58	46.00	-17.42

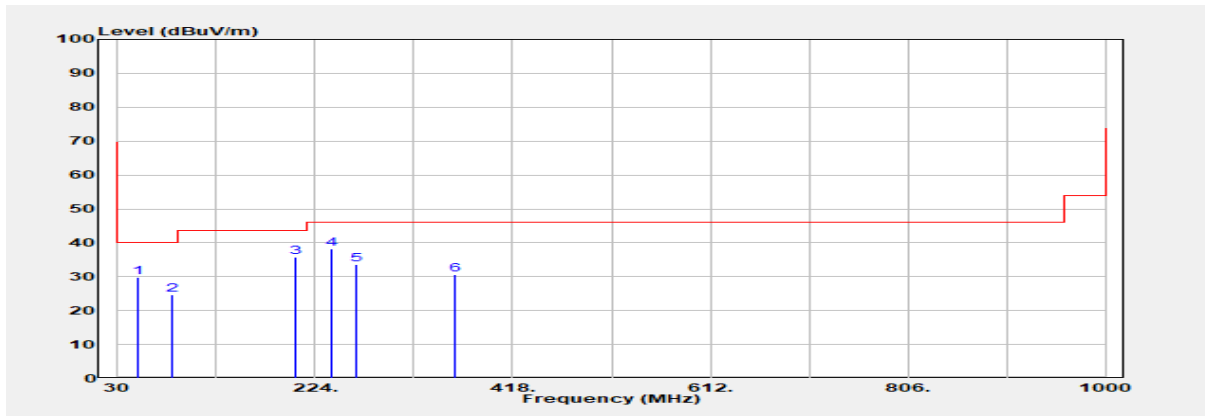
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
49.400	Peak	46.72	-17.00	29.72	40.00	-10.28
83.350	Peak	47.77	-23.01	24.77	40.00	-15.23
204.600	Peak	55.73	-20.07	35.66	43.50	-7.84
240.490	Peak	55.95	-17.85	38.09	46.00	-7.91
263.770	Peak	50.77	-17.23	33.54	46.00	-12.46
360.770	Peak	45.05	-14.39	30.66	46.00	-15.34

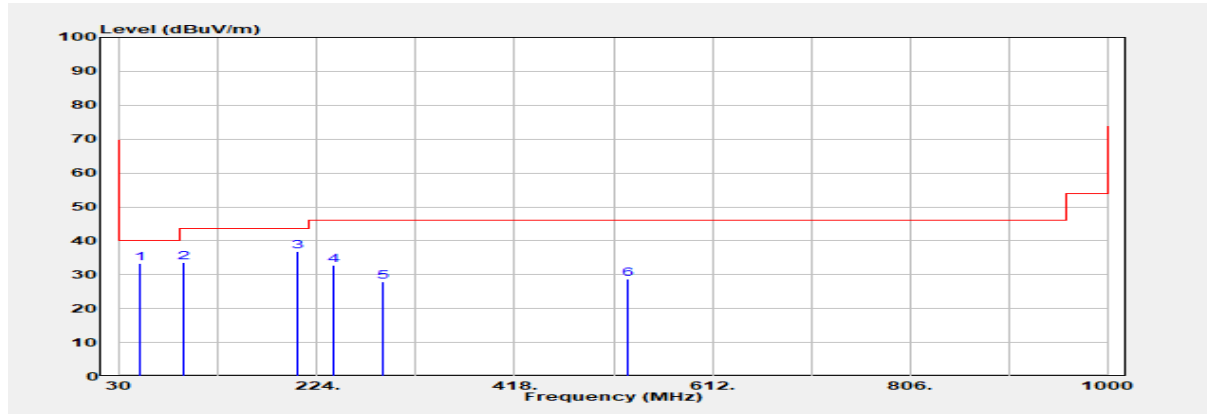
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
49.400	Peak	50.35	-17.00	33.35	40.00	-6.65
92.080	Peak	56.54	-22.84	33.70	43.50	-9.80
204.600	Peak	56.86	-20.07	36.79	43.50	-6.71
240.490	Peak	50.75	-17.85	32.89	46.00	-13.11
288.020	Peak	43.91	-16.12	27.79	46.00	-18.21
528.580	Peak	39.50	-10.78	28.73	46.00	-17.27

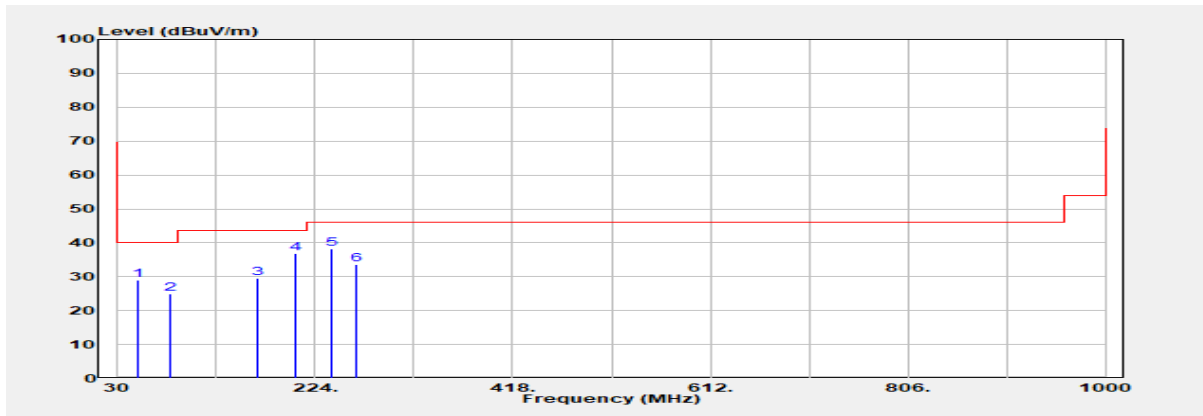
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
49.400	Peak	45.88	-17.00	28.89	40.00	-11.11
81.410	Peak	47.59	-22.73	24.86	40.00	-15.14
167.740	Peak	46.61	-17.06	29.55	43.50	-13.95
204.600	Peak	56.91	-20.07	36.85	43.50	-6.65
240.490	Peak	56.12	-17.85	38.27	46.00	-7.73
264.740	Peak	50.99	-17.29	33.70	46.00	-12.30

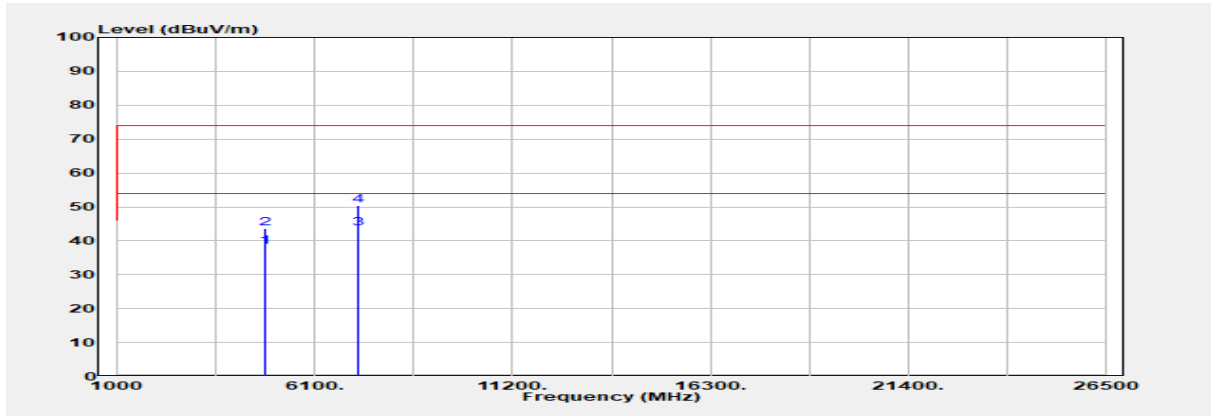
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Average	40.08	-1.96	38.13	54.00	-15.87
4804.000	Peak	45.68	-1.96	43.73	74.00	-30.27
7206.000	Average	38.82	4.83	43.65	54.00	-10.35
7206.000	Peak	45.46	4.83	50.29	74.00	-23.71

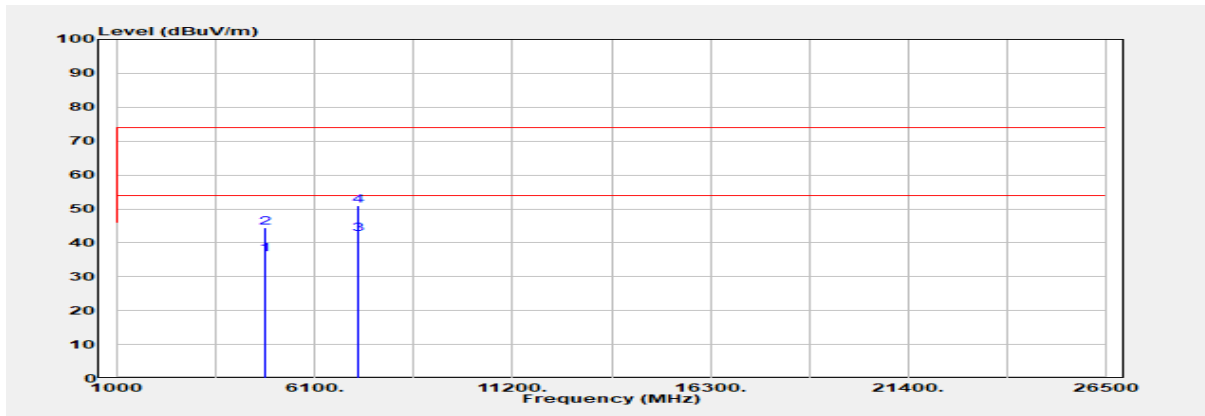
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	35.54	0.98	36.52	54.00	-17.48
4804.000	Peak	43.33	0.98	44.32	74.00	-29.68
7206.000	Average	34.37	8.13	42.50	54.00	-11.50
7206.000	Peak	42.69	8.13	50.82	74.00	-23.18

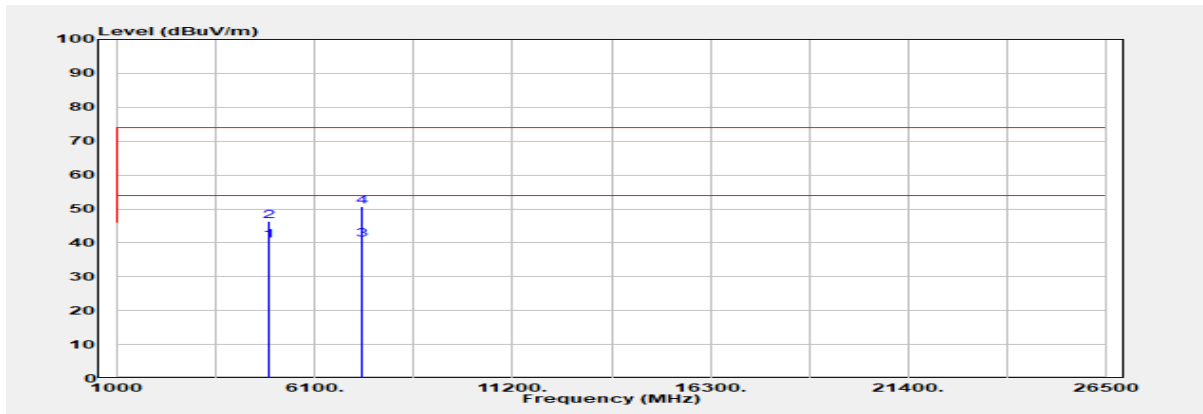
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Average	39.55	1.00	40.55	54.00	-13.45
4880.000	Peak	45.44	1.00	46.45	74.00	-27.55
7320.000	Average	31.89	9.04	40.92	54.00	-13.08
7320.000	Peak	41.73	9.04	50.77	74.00	-23.23

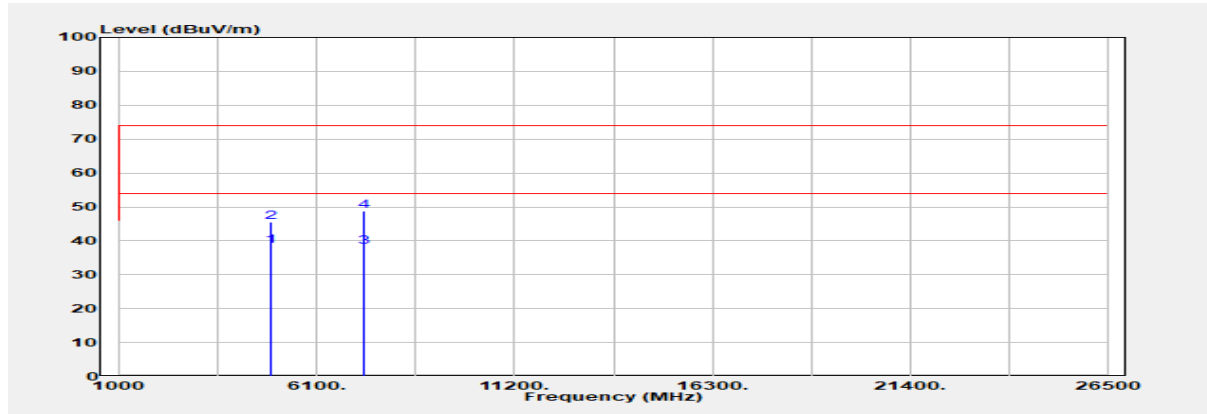
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4880.000	Average	37.36	1.00	38.36	54.00	-15.64
4880.000	Peak	44.54	1.00	45.54	74.00	-28.46
7320.000	Average	29.26	9.04	38.30	54.00	-15.70
7320.000	Peak	39.71	9.04	48.75	74.00	-25.25

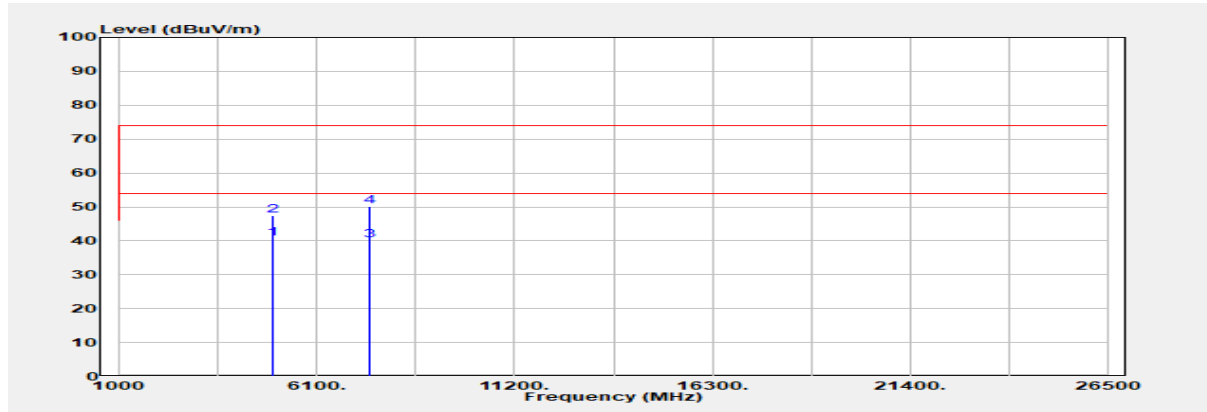
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



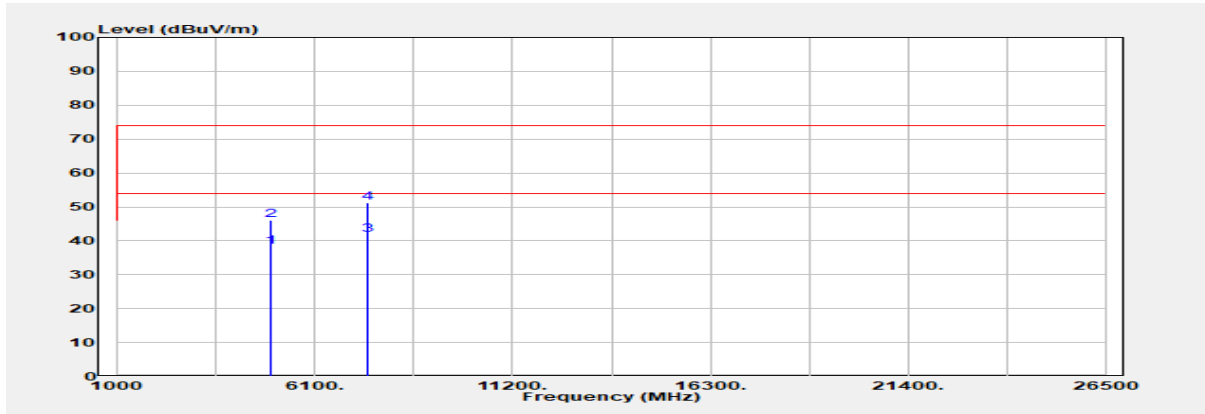
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	38.69	1.87	40.56	54.00	-13.44
4960.000	Peak	45.52	1.87	47.38	74.00	-26.62
7440.000	Average	30.17	9.98	40.15	54.00	-13.85
7440.000	Peak	40.14	9.98	50.12	74.00	-23.88

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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	36.35	1.87	38.22	54.00	-15.78
4960.000	Peak	44.17	1.87	46.03	74.00	-27.97
7440.000	Average	31.86	9.98	41.85	54.00	-12.15
7440.000	Peak	41.20	9.98	51.18	74.00	-22.82

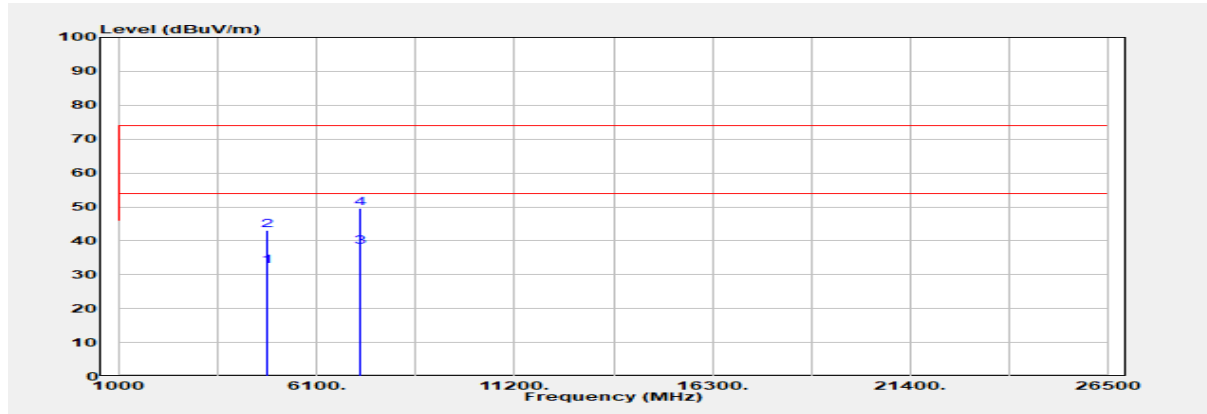
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	31.49	0.98	32.47	54.00	-21.53
4804.000	Peak	42.20	0.98	43.18	74.00	-30.82
7206.000	Average	30.00	8.13	38.13	54.00	-15.87
7206.000	Peak	41.38	8.13	49.50	74.00	-24.50

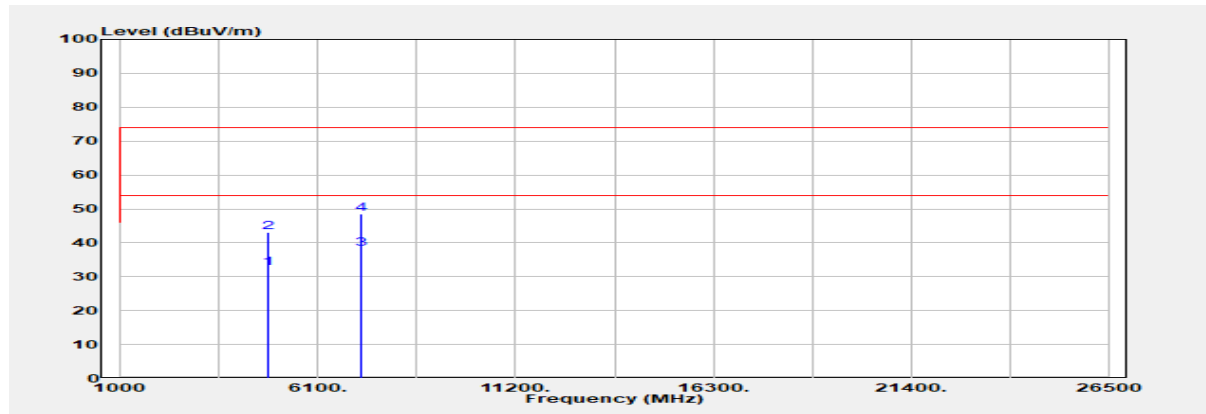
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Average	31.59	0.98	32.58	54.00	-21.42
4804.000	Peak	42.06	0.98	43.04	74.00	-30.96
7206.000	Average	30.08	8.13	38.21	54.00	-15.79
7206.000	Peak	40.32	8.13	48.44	74.00	-25.56

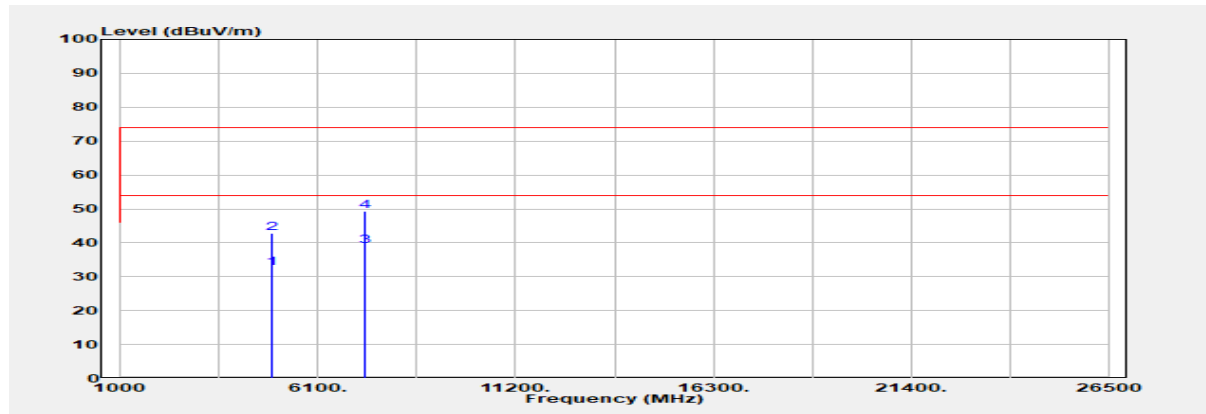
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Average	31.57	1.00	32.58	54.00	-21.42
4880.000	Peak	41.91	1.00	42.92	74.00	-31.08
7320.000	Average	29.87	9.04	38.91	54.00	-15.09
7320.000	Peak	40.39	9.04	49.43	74.00	-24.57

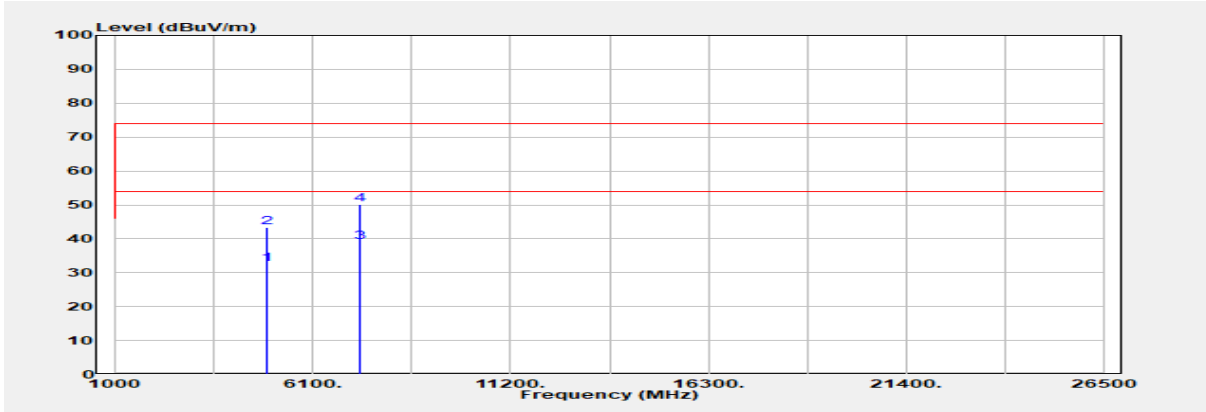
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4880.000	Average	31.62	1.00	32.62	54.00	-21.38
4880.000	Peak	42.37	1.00	43.37	74.00	-30.63
7320.000	Average	29.94	9.04	38.98	54.00	-15.02
7320.000	Peak	41.16	9.04	50.20	74.00	-23.80

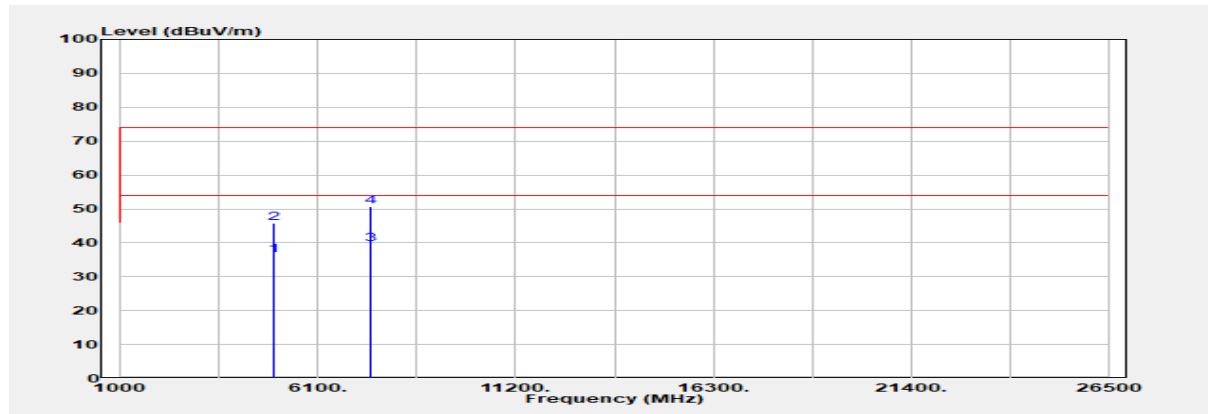
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Vertical
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.000	Average	34.35	1.87	36.22	54.00	-17.78
4960.000	Peak	43.82	1.87	45.68	74.00	-28.32
7440.000	Average	29.63	9.98	39.62	54.00	-14.38
7440.000	Peak	40.76	9.98	50.74	74.00	-23.26

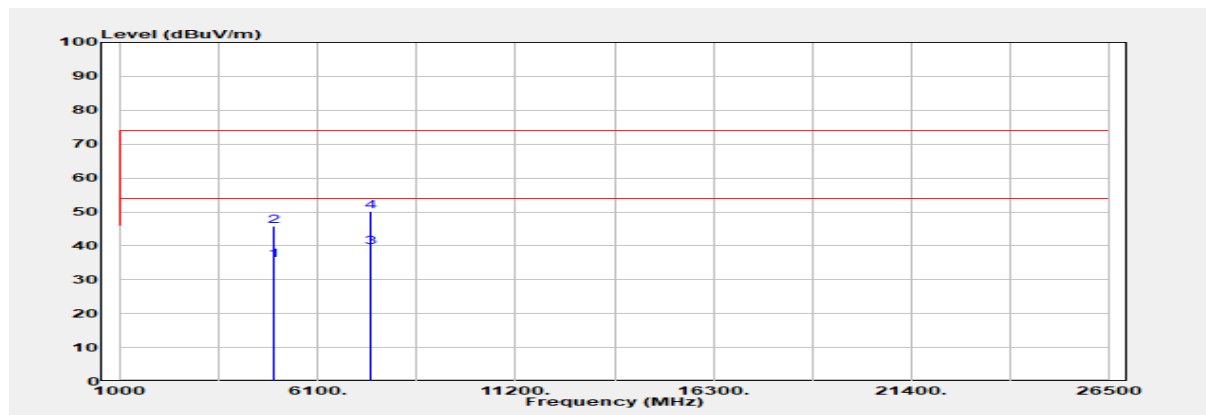
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2023-12-22
 Temp./Humi. :23.5°C/56%
 Antenna Pol. :Horizontal
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	33.96	1.87	35.82	54.00	-18.18
4960.000	Peak	44.02	1.87	45.89	74.00	-28.11
7440.000	Average	29.61	9.98	39.60	54.00	-14.40
7440.000	Peak	40.20	9.98	50.18	74.00	-23.82

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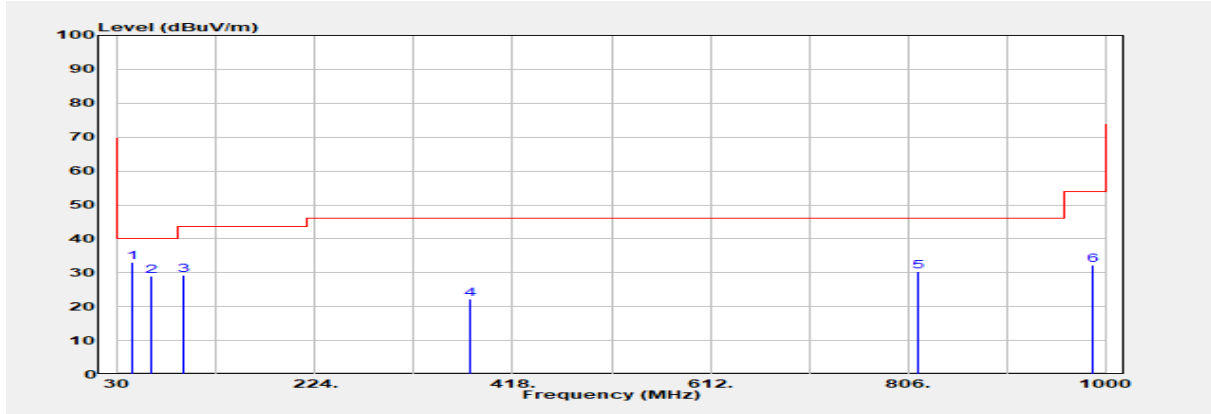
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Internal Antenna

Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
44.550	Peak	50.02	-16.97	33.05	40.00	-6.95
62.980	Peak	46.98	-17.86	29.12	40.00	-10.88
94.020	Peak	51.82	-22.56	29.26	43.50	-14.24
375.320	Peak	35.85	-13.63	22.22	46.00	-23.78
815.700	Peak	36.44	-6.04	30.40	46.00	-15.60
988.360	Peak	36.46	-4.19	32.26	54.00	-21.74

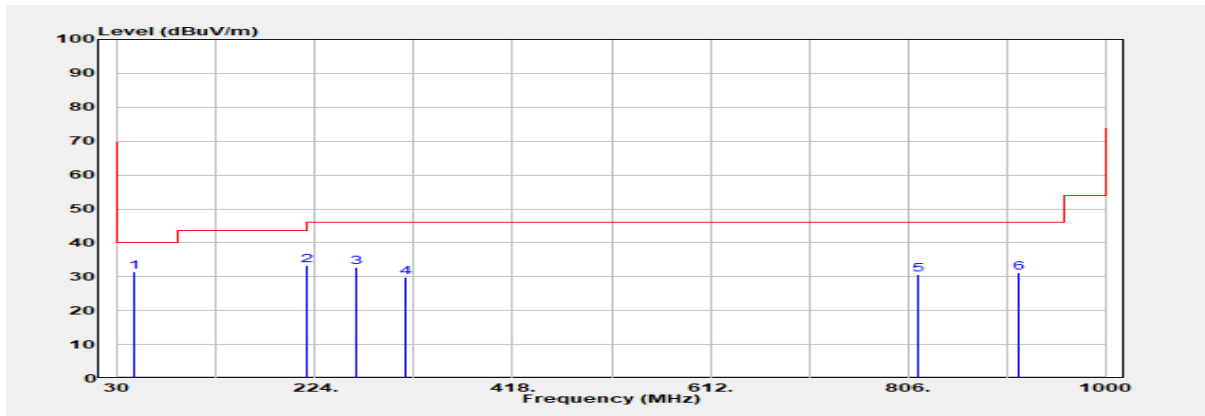
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
45.520	Peak	48.47	-16.90	31.57	40.00	-8.43
216.240	Peak	53.07	-19.72	33.35	46.00	-12.65
263.770	Peak	49.86	-16.96	32.91	46.00	-13.09
312.270	Peak	45.29	-15.43	29.87	46.00	-16.13
816.670	Peak	36.65	-5.99	30.66	46.00	-15.34
915.610	Peak	35.87	-4.63	31.23	46.00	-14.77

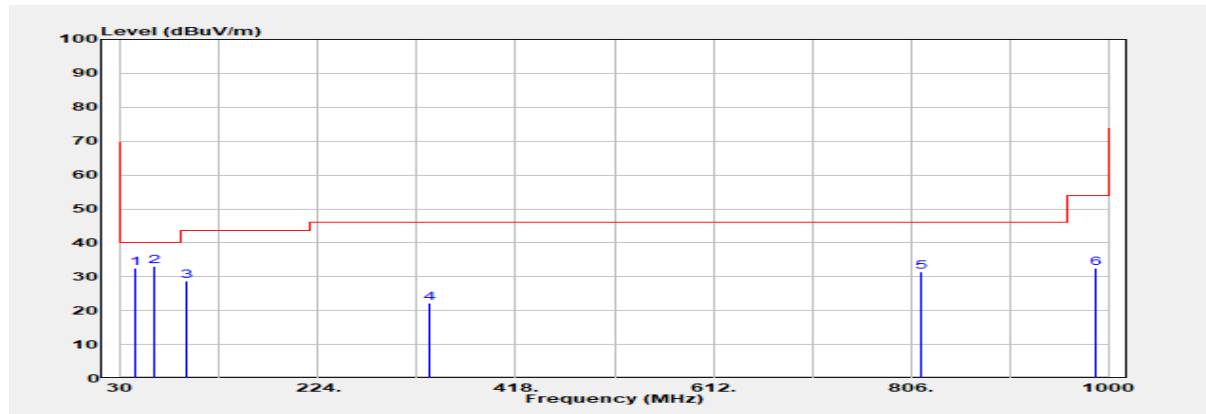
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
44.550	Peak	49.49	-16.97	32.52	40.00	-7.48
62.980	Peak	50.93	-17.86	33.07	40.00	-6.93
94.990	Peak	51.35	-22.61	28.74	43.50	-14.76
333.610	Peak	36.94	-14.76	22.18	46.00	-23.82
816.670	Peak	37.36	-5.99	31.37	46.00	-14.63
987.390	Peak	36.67	-4.22	32.45	54.00	-21.55

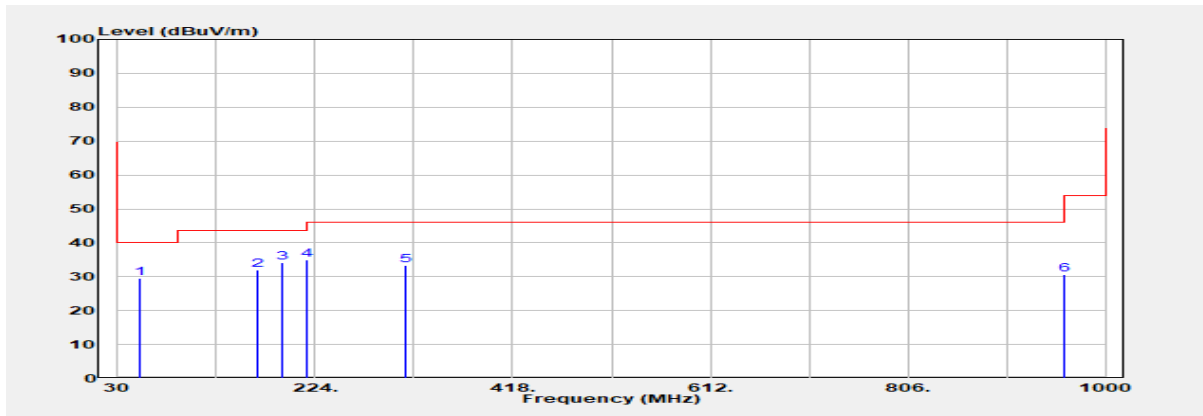
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
51.340	Peak	46.28	-16.73	29.55	40.00	-10.45
167.740	Peak	48.69	-16.69	32.00	43.50	-11.50
191.990	Peak	53.32	-19.27	34.05	43.50	-9.45
216.240	Peak	54.66	-19.72	34.94	46.00	-11.06
312.270	Peak	48.81	-15.43	33.39	46.00	-12.61
960.230	Peak	34.67	-3.95	30.72	54.00	-23.28

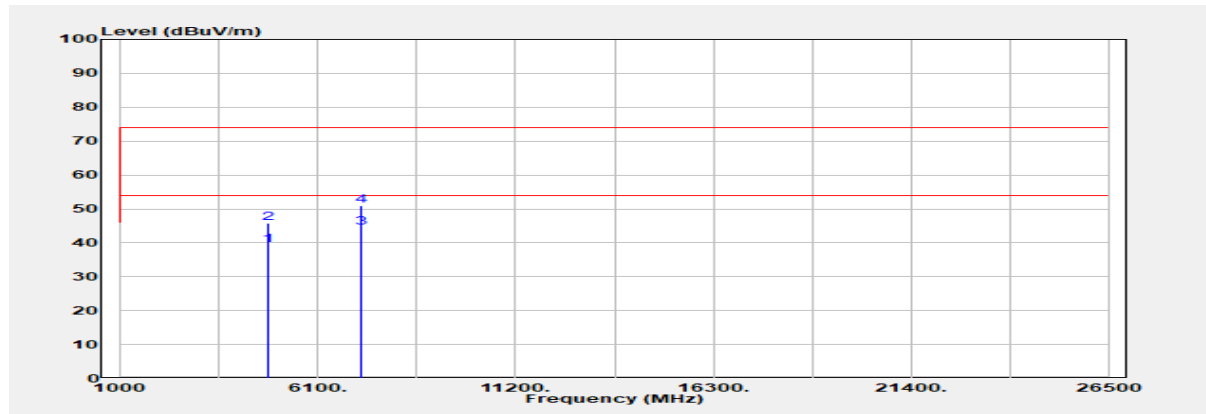
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	38.45	0.98	39.43	54.00	-14.57
4804.000	Peak	44.68	0.98	45.66	74.00	-28.34
7206.000	Average	36.44	8.13	44.56	54.00	-9.44
7206.000	Peak	42.92	8.13	51.05	74.00	-22.95

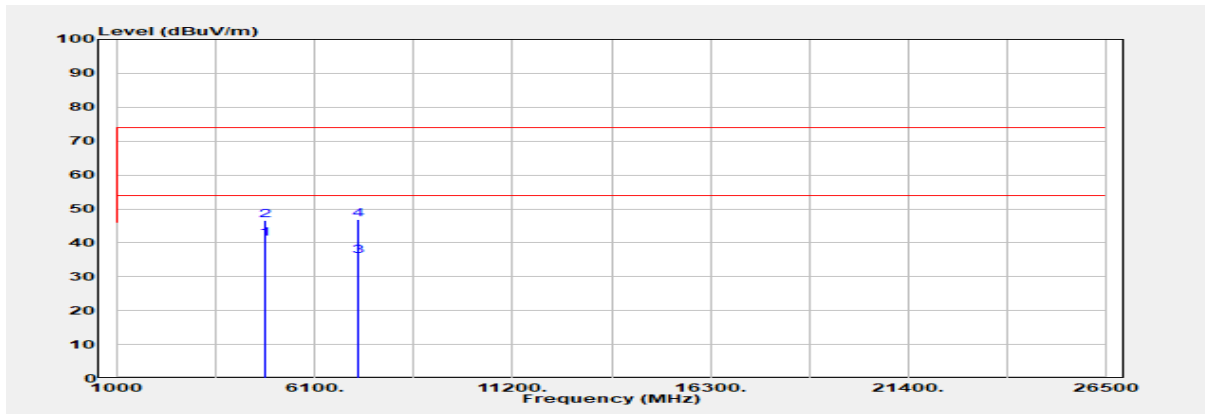
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	40.15	0.98	41.14	54.00	-12.86
4804.000	Peak	45.59	0.98	46.57	74.00	-27.43
7206.000	Average	27.89	8.13	36.01	54.00	-17.99
7206.000	Peak	38.83	8.13	46.96	74.00	-27.04

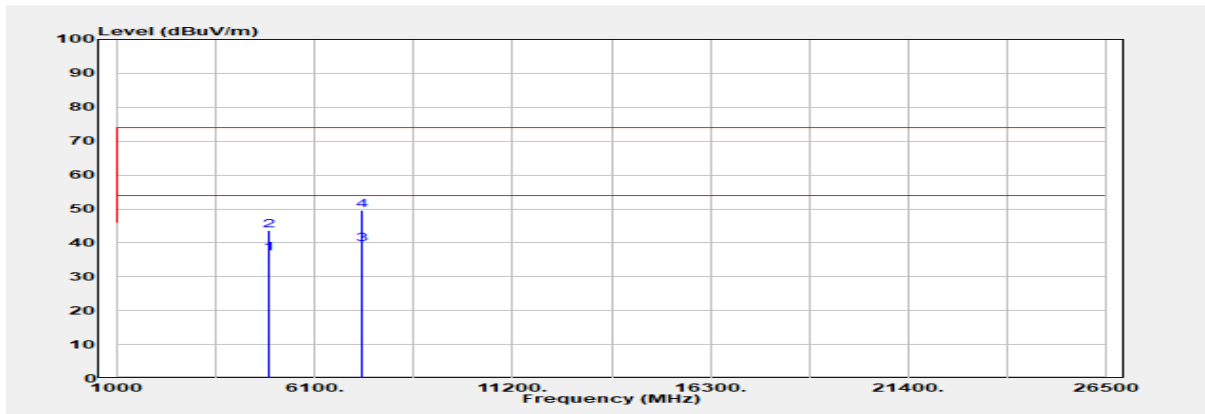
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Average	35.74	1.00	36.74	54.00	-17.26
4880.000	Peak	42.71	1.00	43.71	74.00	-30.29
7320.000	Average	30.61	9.04	39.65	54.00	-14.35
7320.000	Peak	40.53	9.04	49.57	74.00	-24.43

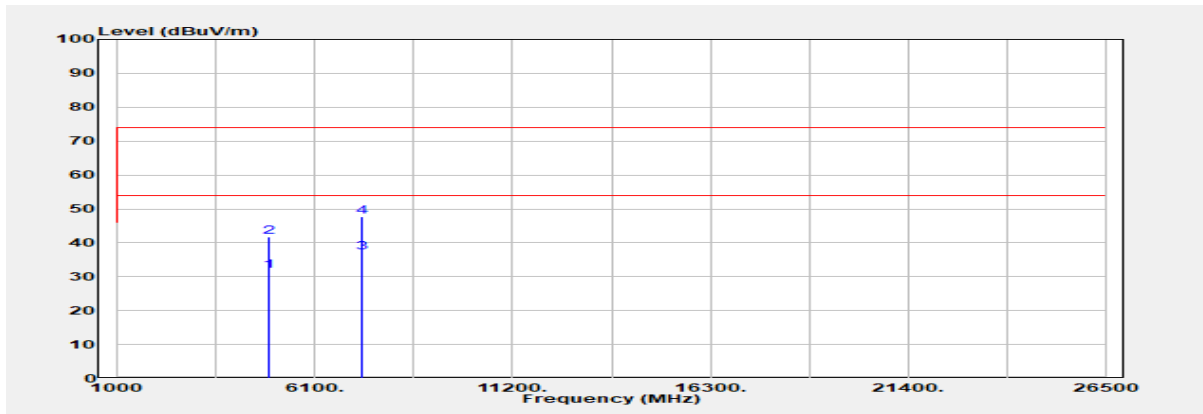
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Average	30.61	1.00	31.61	54.00	-22.39
4880.000	Peak	40.62	1.00	41.62	74.00	-32.38
7320.000	Average	28.19	9.04	37.23	54.00	-16.77
7320.000	Peak	38.57	9.04	47.60	74.00	-26.40

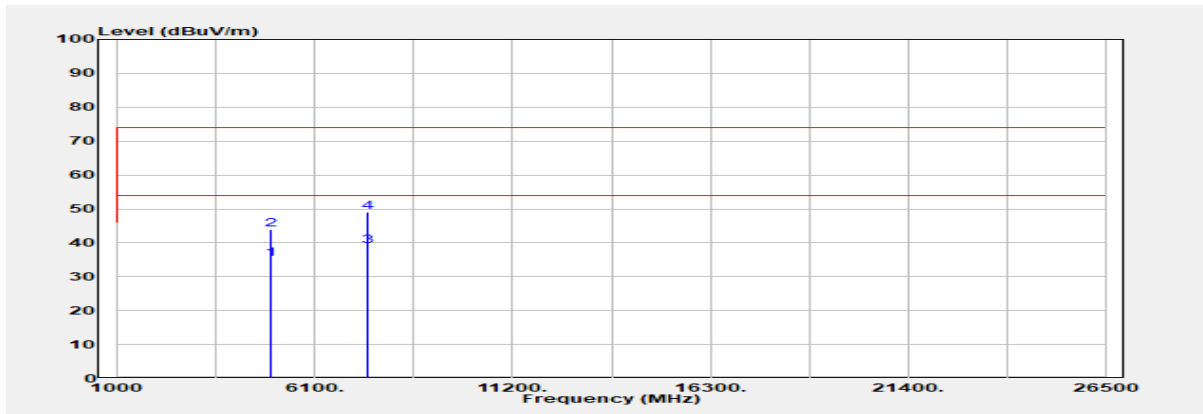
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.000	Average	33.32	1.87	35.19	54.00	-18.81
4960.000	Peak	42.09	1.87	43.95	74.00	-30.05
7440.000	Average	28.95	9.98	38.94	54.00	-15.06
7440.000	Peak	39.15	9.98	49.13	74.00	-24.87

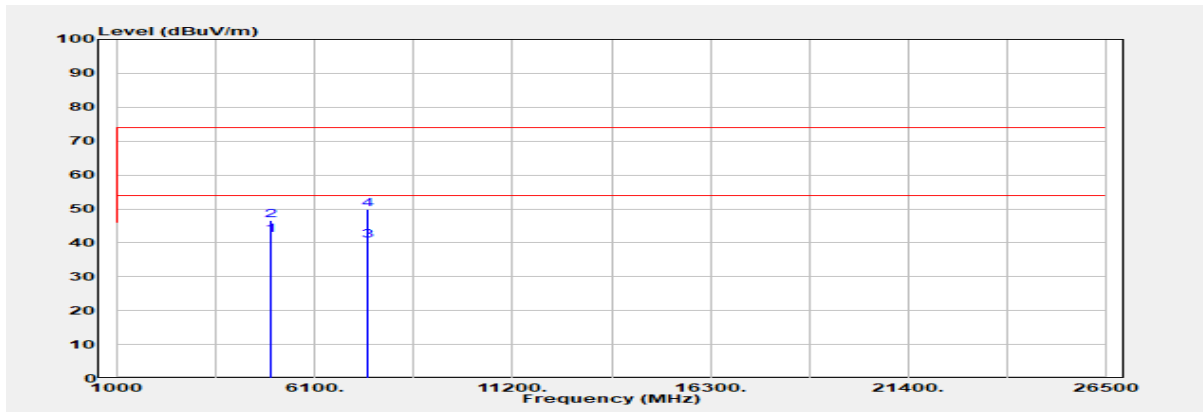
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Report Number :TERF2307001691E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Average	40.42	1.87	42.28	54.00	-11.72
4960.000	Peak	44.87	1.87	46.74	74.00	-27.26
7440.000	Average	30.53	9.98	40.52	54.00	-13.48
7440.000	Peak	39.82	9.98	49.80	74.00	-24.20

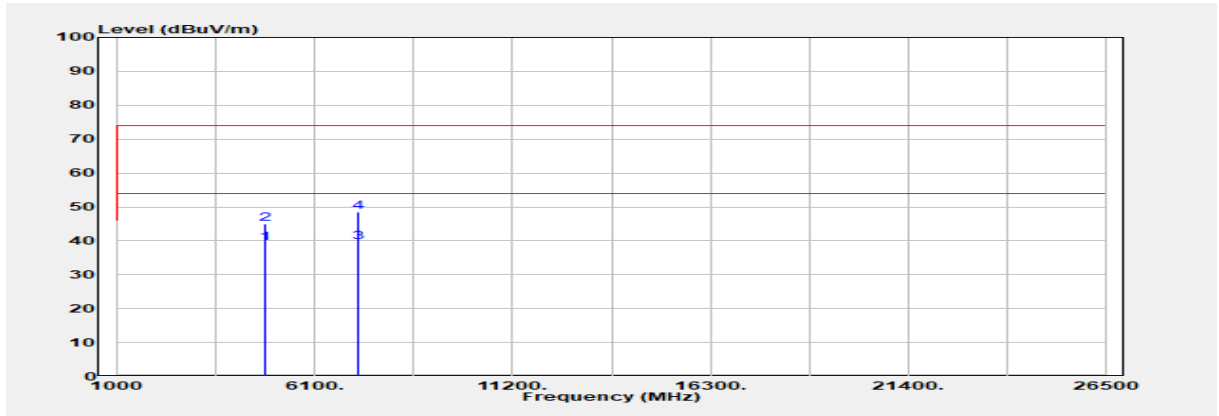
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	38.43	0.98	39.41	54.00	-14.59
4804.000	Peak	44.10	0.98	45.09	74.00	-28.91
7206.000	Average	31.47	8.13	39.60	54.00	-14.40
7206.000	Peak	40.35	8.13	48.48	74.00	-25.52

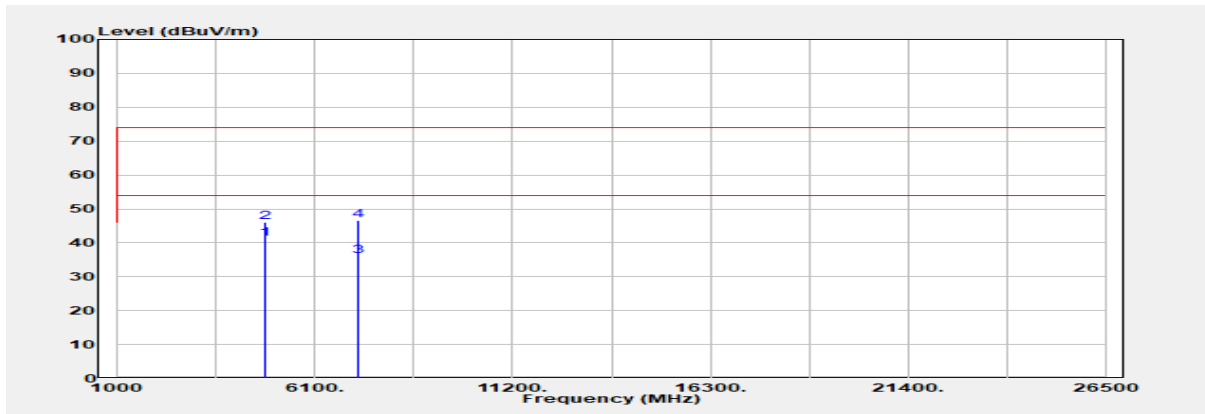
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.000	Average	40.28	0.98	41.26	54.00	-12.74
4804.000	Peak	45.14	0.98	46.12	74.00	-27.88
7206.000	Average	27.86	8.13	35.99	54.00	-18.01
7206.000	Peak	38.55	8.13	46.68	74.00	-27.32

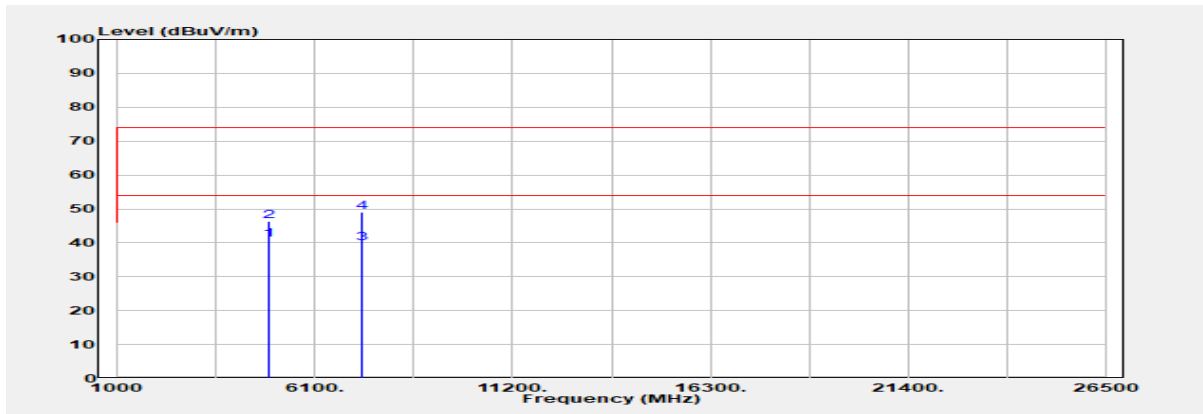
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Average	40.03	1.00	41.03	54.00	-12.97
4880.000	Peak	45.31	1.00	46.31	74.00	-27.69
7320.000	Average	30.68	9.04	39.71	54.00	-14.29
7320.000	Peak	39.93	9.04	48.97	74.00	-25.03

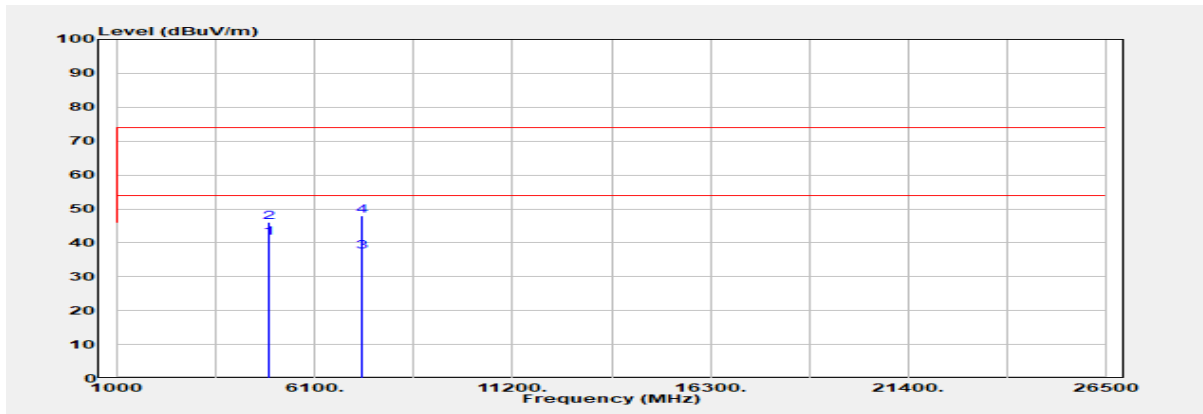
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2440 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Average	40.39	1.00	41.39	54.00	-12.61
4880.000	Peak	44.95	1.00	45.95	74.00	-28.05
7320.000	Average	28.40	9.04	37.44	54.00	-16.56
7320.000	Peak	38.81	9.04	47.85	74.00	-26.15

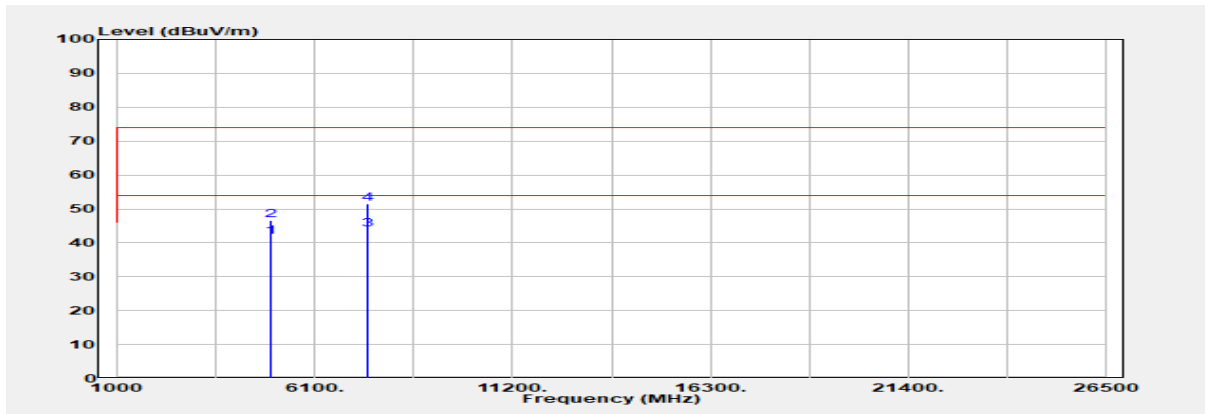
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.000	Average	39.83	1.87	41.69	54.00	-12.31
4960.000	Peak	44.83	1.87	46.69	74.00	-27.31
7440.000	Average	34.01	9.98	43.99	54.00	-10.01
7440.000	Peak	41.55	9.98	51.53	74.00	-22.47

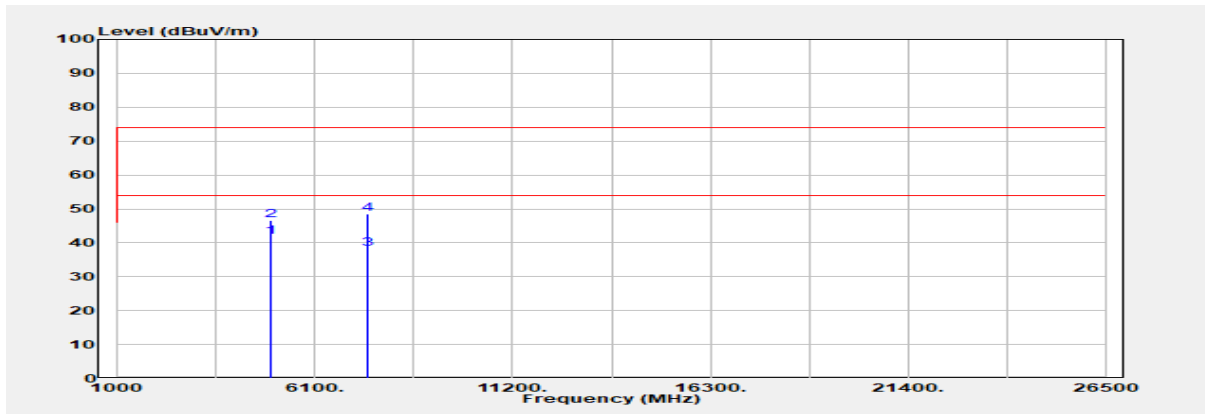
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Report Number :TERF2307001691E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2024-03-22
 Temp./Humi. :22.6 °C/45%
 Antenna Pol. :Horizontal
 Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.000	Average	39.98	1.87	41.84	54.00	-12.16
4960.000	Peak	44.70	1.87	46.56	74.00	-27.44
7440.000	Average	28.14	9.98	38.13	54.00	-15.87
7440.000	Peak	38.53	9.98	48.51	74.00	-25.49

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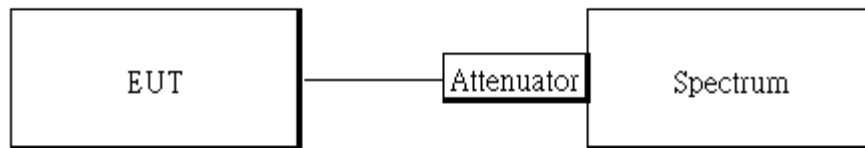
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e) & RSS-247 section 5.2 b

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Test Setup



12.3 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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12.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-12.080	8	PASS
2440	-13.930	8	PASS
2480	-15.190	8	PASS

***Note:**

1.cable loss as 12.7dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-16.100	8	PASS
2440	-17.730	8	PASS
2480	-19.590	8	PASS

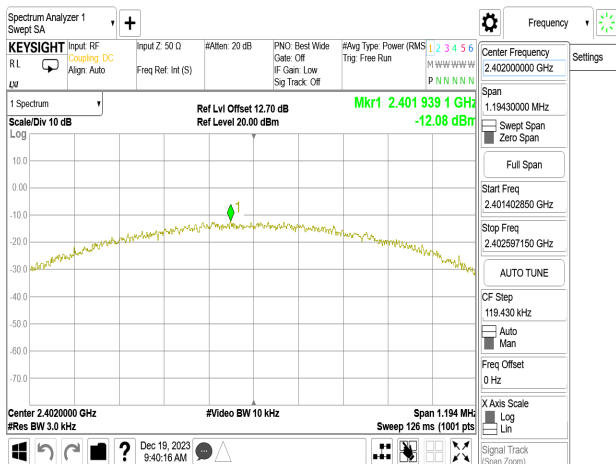
***Note:**

1.cable loss as 12.7dB that offsets in the spectrum

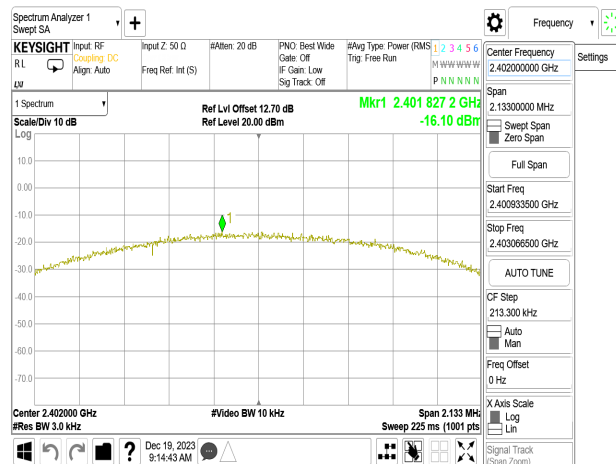
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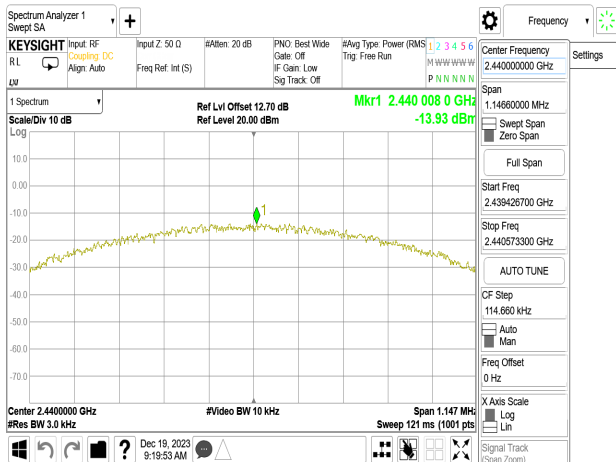
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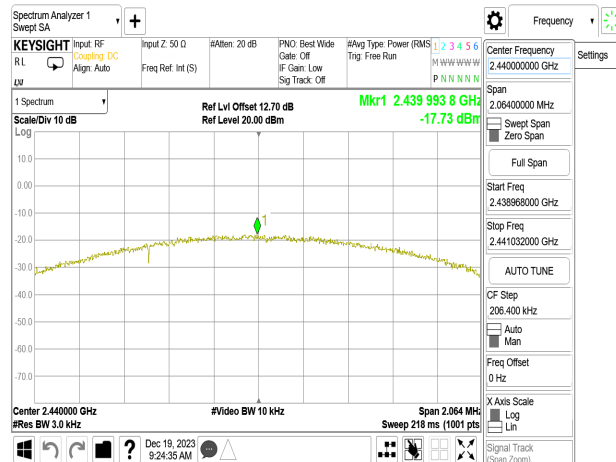
PSD_BLE 2M_LowCH00-2402MHz



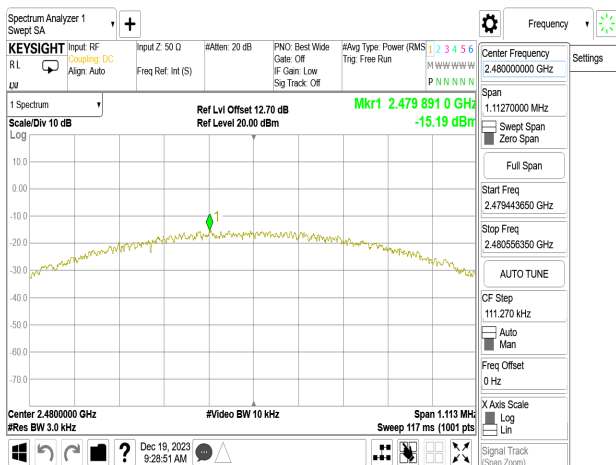
PSD_BLE 1M_MidCH19-2440MHz



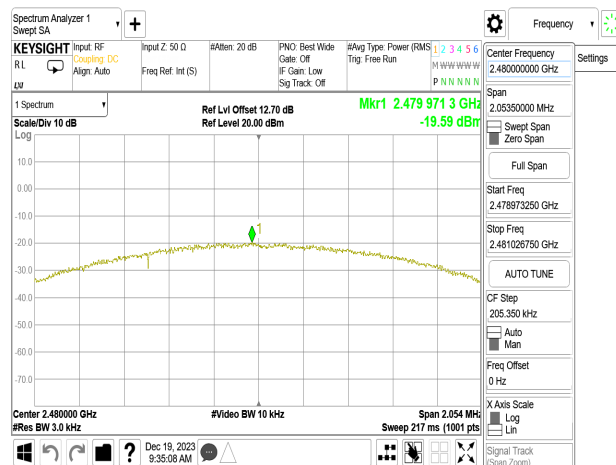
PSD_BLE 2M_MidCH19-2440MHz



PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable:

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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