

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

Manufacturer: Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari, Nagaokakyo-shi, Kyoto 617-8555 Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBEE5WV2GF

Report Number: TERF2404000925E2

FCC ID VPYLBEE5WV2GF

IC: 772C-LBEE5WV2GF

Date of EUT Received: Feb. 21, 2024

Date of Test: Apr. 10, 2024 ~ May 13, 2024

Issue Date: Jun. 04, 2024

Approved By**Aken Huang****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
TERF2404000925E2	00	Original.	Jun. 04, 2024	Yami Kuo	

Note:

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

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Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	8
3	SUMMARY OF TEST RESULTS	11
4	DESCRIPTION OF TEST MODES	12
5	MEASUREMENT UNCERTAINTY	14
6	MEASUREMENT EQUIPMENT USED.....	15
7	CONDUCTED EMISSION TEST	17
8	PEAK OUTPUT POWER MEASUREMENT	21
9	EMISSION BANDWIDTH MEASUREMENT	27
10	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	32
11	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	38
12	POWER SPECTRAL DENSITY.....	90
13	ANTENNA REQUIREMENT	93

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	LBEE5WV2GF
Hardware Version:	N/A
Firmware Version:	1.1.1.1
EUT Series No.:	NO.2
Power Supply:	3.3Vdc, 1.8Vdc
Test Software (Name/Version)	Broadcom Blue Tool V2.0.2.9

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 6.35 dBm BLE 2M: 6.29 dBm

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
dipole	Unictron	WT32D1-KX	2400-2500	-0.2
	Taoglas	FXP830.07.0100C		-0.7
	KAVX	W3P35x8W04		-0.9
	Inventek	W24P-U		0.38
	Inventek	W2.4-5P-U		0.53
monopole	Murata	Type2GF_Antenna		0.8
	Murata	Type1LV_Antenna		0.9

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)

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion 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.

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1.6 Special Accessories

There are no special accessories used while test was conducted.

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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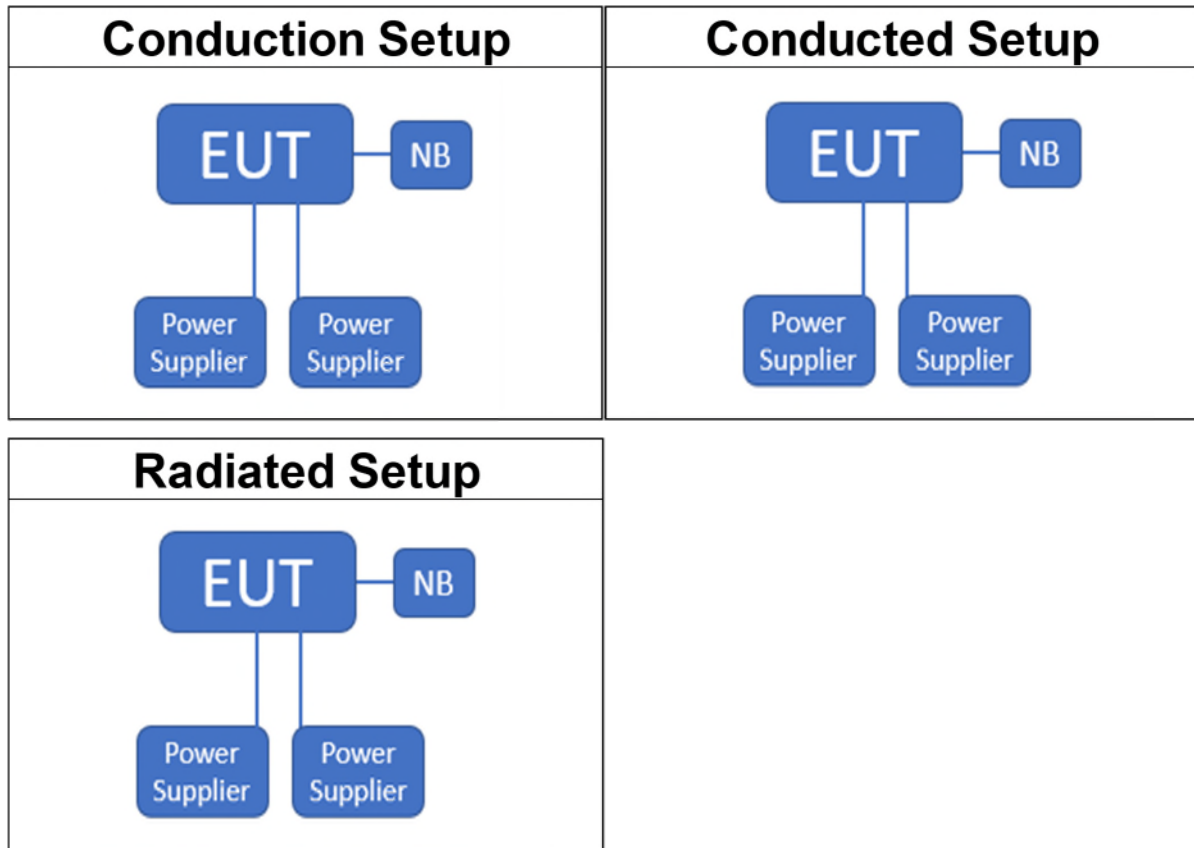
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	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	Compliant
§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) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Band Edge and Spurious Emission	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

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

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	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	20	GFSK	1
Bluetooth LE	0 to 39	20	GFSK	2

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/17/2024	01/16/2025
DC Power Supply	Gwinstek	SPS-3610	GEV856767	10/02/2023	10/01/2024
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/19/2023	06/18/2024
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	2138002	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911390	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911398	08/31/2023	08/30/2024
DC Power Supply	HOLA	DP-3003	D7070035	06/12/2023	06/11/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2023	08/03/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF19	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF155	11/15/2023	11/14/2024

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1208	07/21/2023	07/20/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/17/2023	07/16/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/17/2024	01/16/2025
DC Power Supply	Gwinstek	SPS-3610	GEV856767	10/02/2023	10/01/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	981030	03/13/2024	03/12/2025
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/13/2024	03/12/2025
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/13/2024	03/12/2025

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

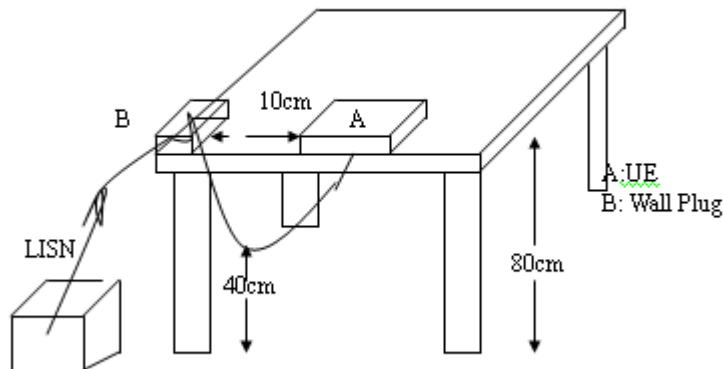
Note

- 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 120Vac/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:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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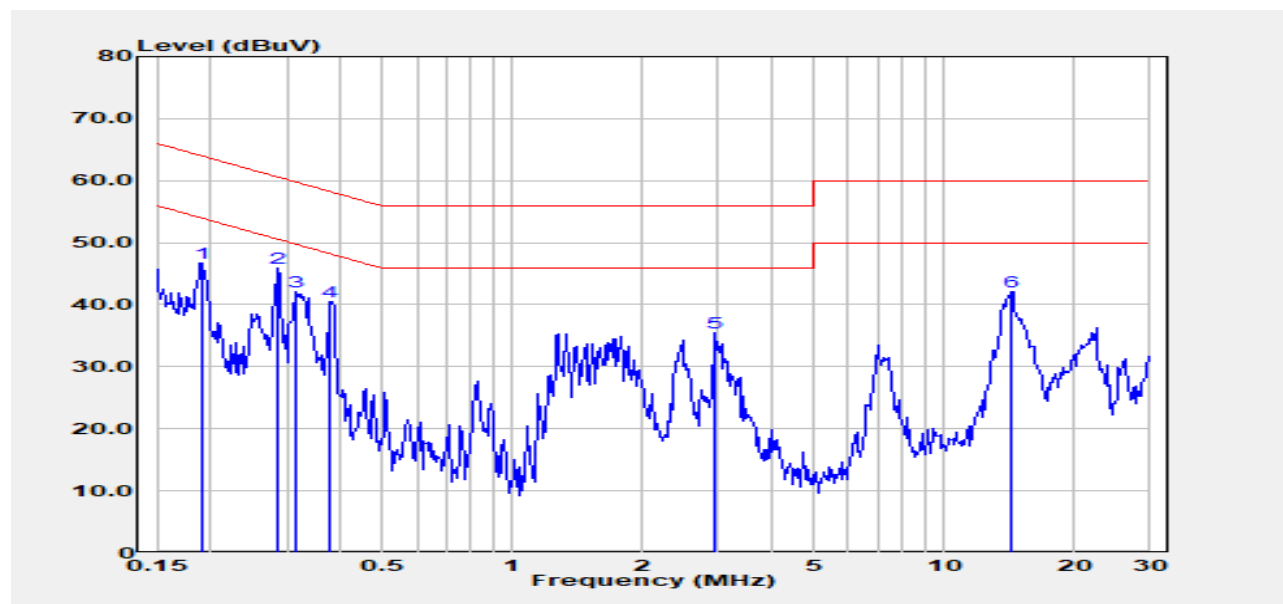
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2404000925E2	Test Site	:Conduction C
Test Mode	:BLE	Test Date	:2024-05-14
Power	:120V/60Hz	Temp./Humi.	:21.5°C/54%
Probe	:L1	Engineer	:Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.192	Peak	36.05	10.68	46.73	63.95	-17.22
0.286	Peak	35.20	10.66	45.86	60.64	-14.78
0.317	Peak	31.44	10.65	42.10	59.79	-17.70
0.378	Peak	29.89	10.65	40.53	58.31	-17.78
2.954	Peak	24.71	10.85	35.56	56.00	-20.44
14.332	Peak	31.01	11.06	42.08	60.00	-17.92

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Report Number :TERF2404000925E2

Test Site :Conduction C

Test Mode :BLE

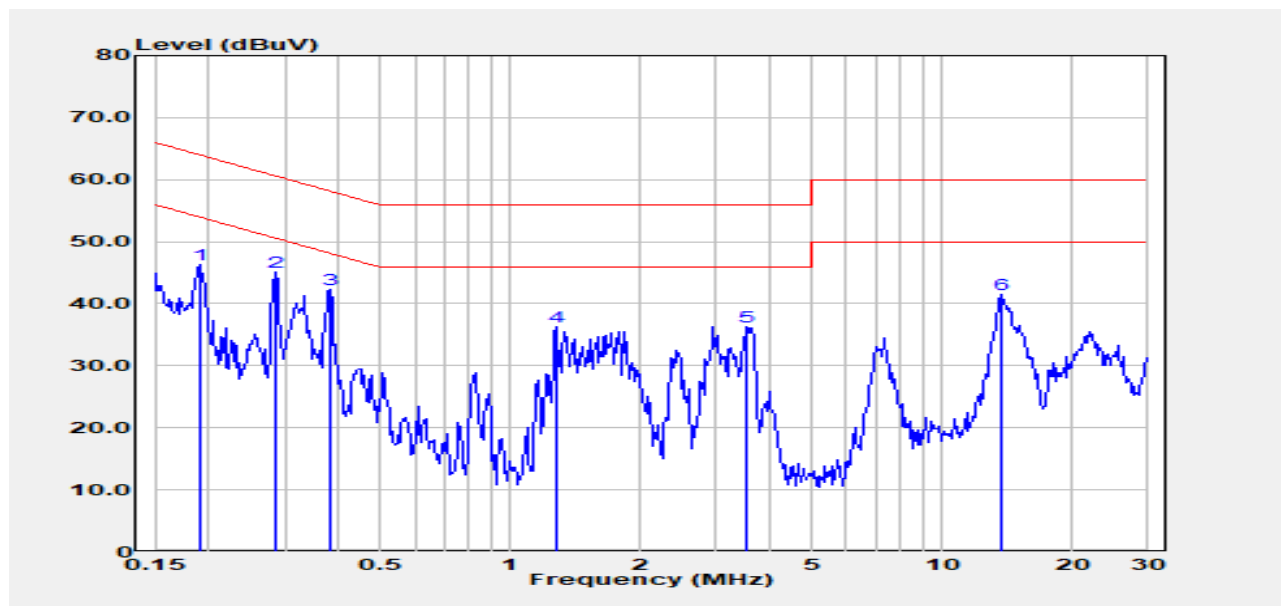
Test Date :2024-05-14

Power :120V/60Hz

Temp./Humi. :21.5°C/54%

Probe :N

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dB μ V	dB	dB μ V	dB μ V	dB
0.190	Peak	35.66	10.67	46.33	64.03	-17.69
0.286	Peak	34.51	10.65	45.16	60.64	-15.48
0.382	Peak	31.74	10.63	42.36	58.24	-15.88
1.275	Peak	25.53	10.72	36.25	56.00	-19.75
3.501	Peak	25.35	10.88	36.23	56.00	-19.77
13.736	Peak	30.38	11.12	41.50	60.00	-18.50

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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.

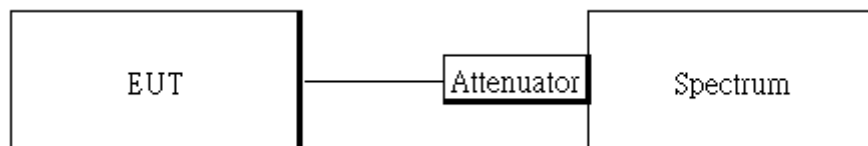
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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

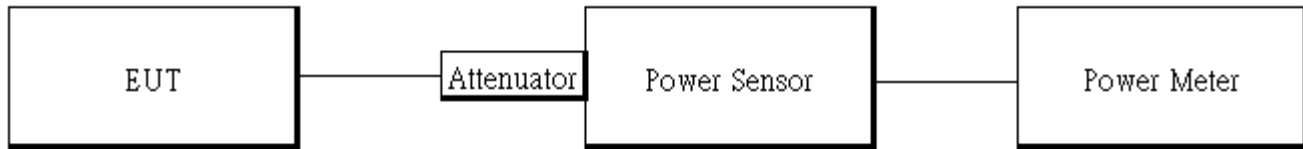


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8.2.2 Output Power



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.

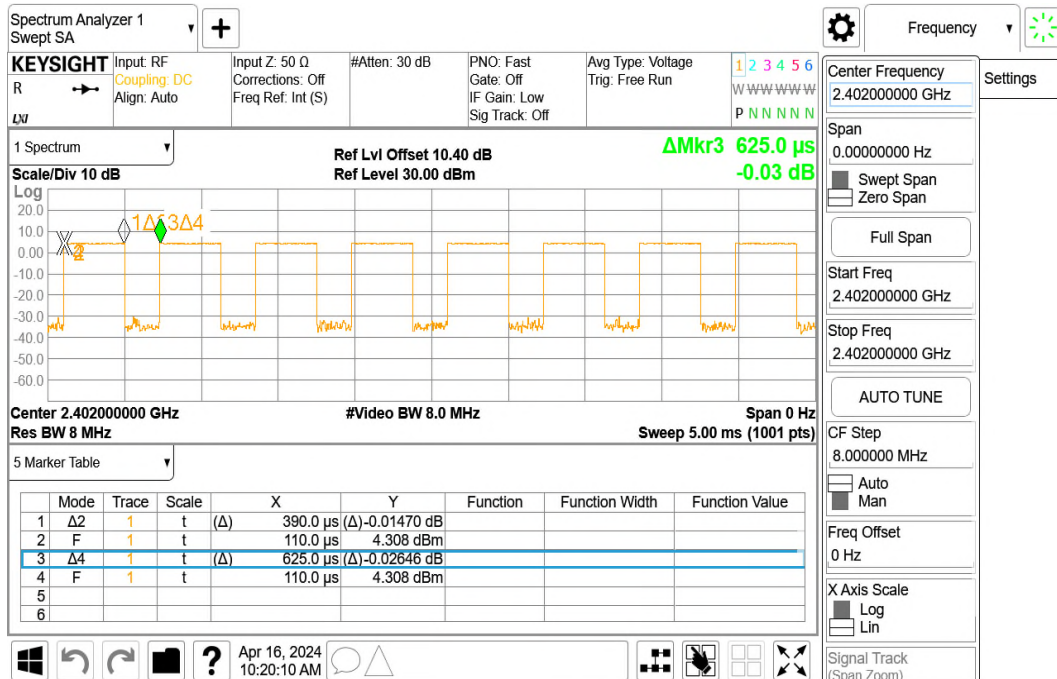
8.4 Duty Factor:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	62.40	2.05	2.56	3.00
BLE 2M	30.40	5.17	5.26	6.00

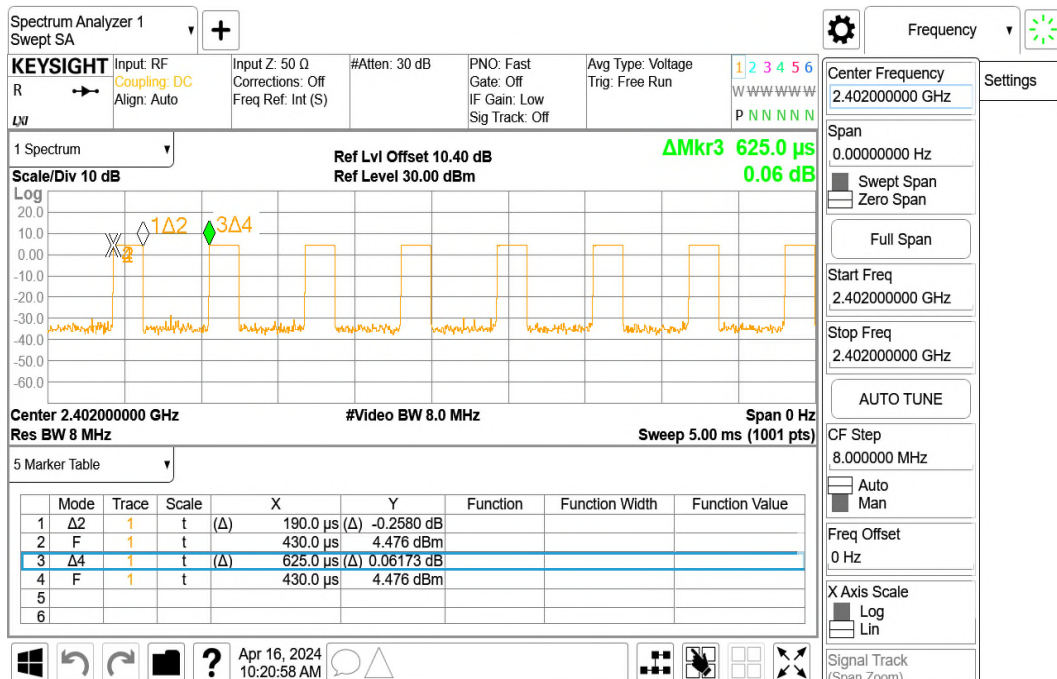
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BLE_1M_LowCH00-2402



BLE_2M_LowCH00-2402



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8.5 Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	5.09	30
Mid	2442	default	5.34	30
High	2480	default	6.35	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	4.86	30
Mid	2442	default	5.09	30
High	2480	default	6.00	30

***Note:**

1. Measured by power meter, cable loss 10.4 dB + Duty cycle factor has been offset to the power meter for Avg. power and cable loss has been offset for Peak power measurement.

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BLE 2M mode:

CH	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	default	5.02	30
Mid	2442	default	5.29	30
High	2480	default	6.29	30
CH	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	default	4.79	30
Mid	2442	default	5.02	30
High	2480	default	6.04	30

***Note:**

1. Measured by power meter, cable loss 10.4 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 Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	4.86	0.90	5.76	4W= 36 dBm
Mid	2442	default	5.09	0.90	5.99	4W= 36 dBm
High	2480	default	6.00	0.90	6.90	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	4.79	0.90	5.69	4W= 36 dBm
Mid	2442	default	5.02	0.90	5.92	4W= 36 dBm
High	2480	default	6.04	0.90	6.94	4W= 36 dBm

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

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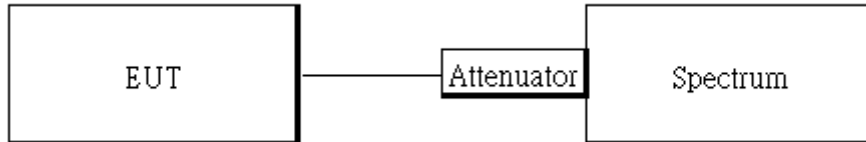
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9 EMISSION BANDWIDTH MEASUREMENT

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 $\geq$ 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	0.6943	≥ 0.5	PASS
2442	0.693	≥ 0.5	PASS
2480	0.6949	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.264	≥ 0.5	PASS
2442	1.262	≥ 0.5	PASS
2480	1.262	≥ 0.5	PASS

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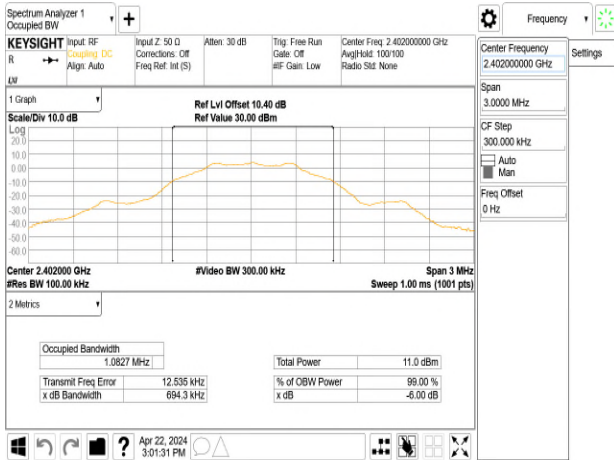
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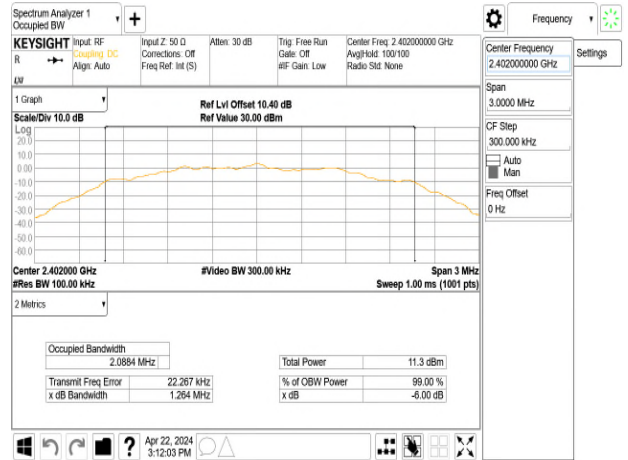
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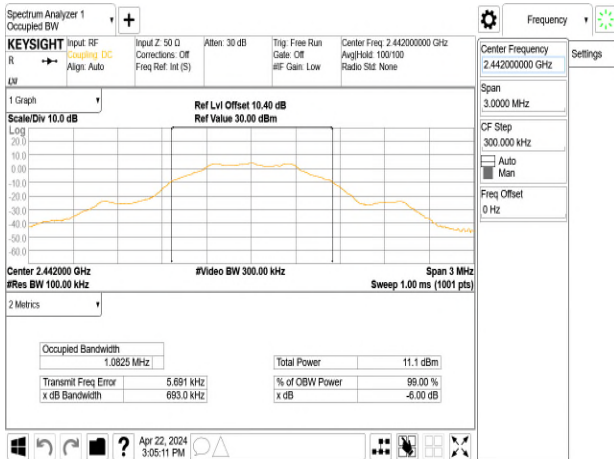
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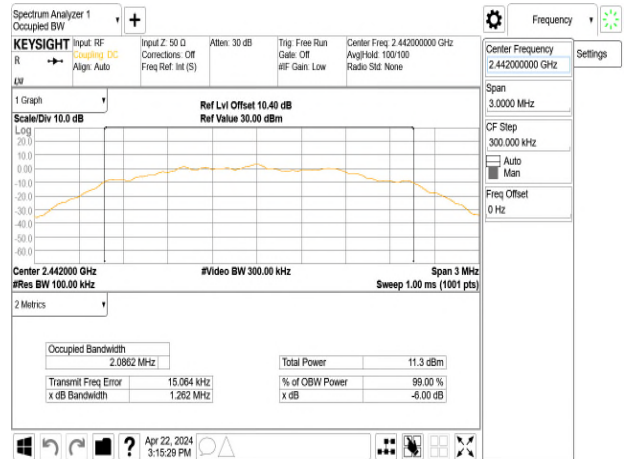
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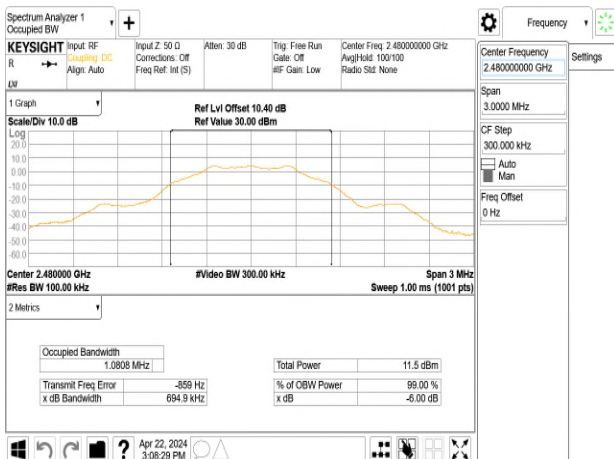
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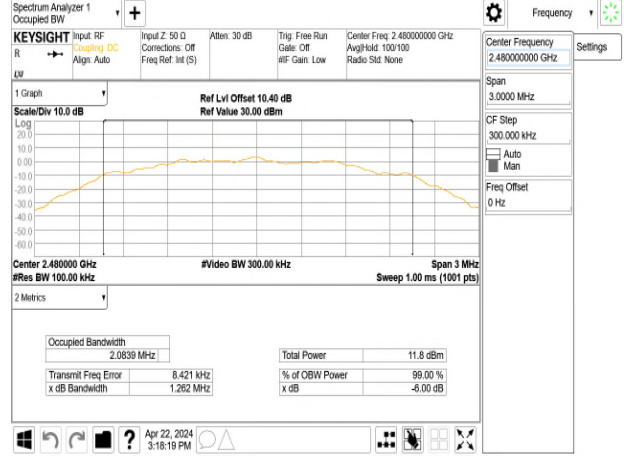
OBW_BLE 2M_MidCH20-2442MHz



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	1.0516
2442	1.0509
2480	1.05

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0901
2442	2.0885
2480	2.0869

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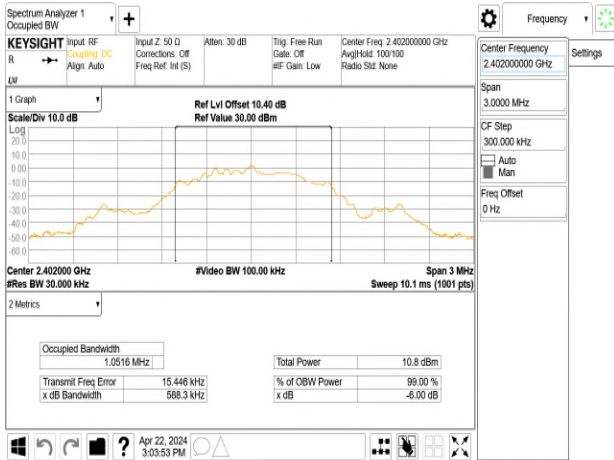
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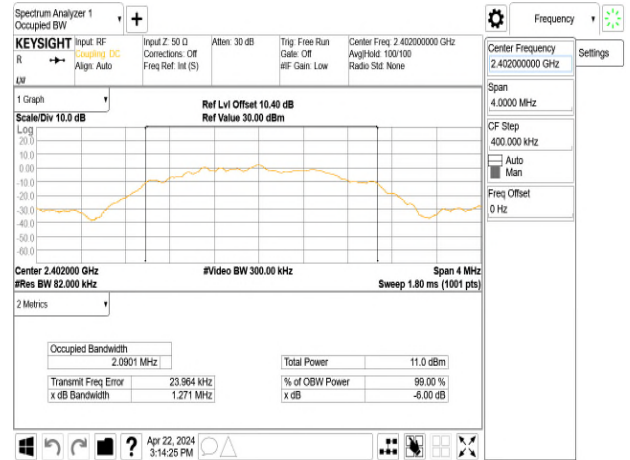
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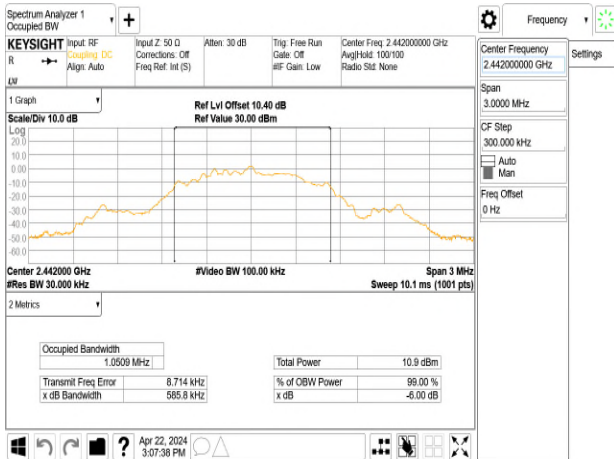
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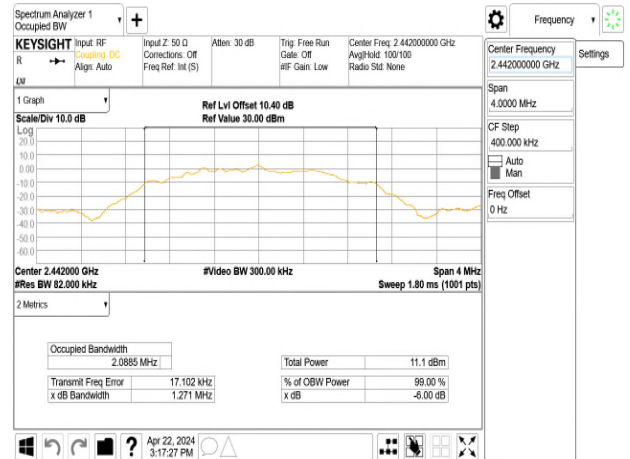
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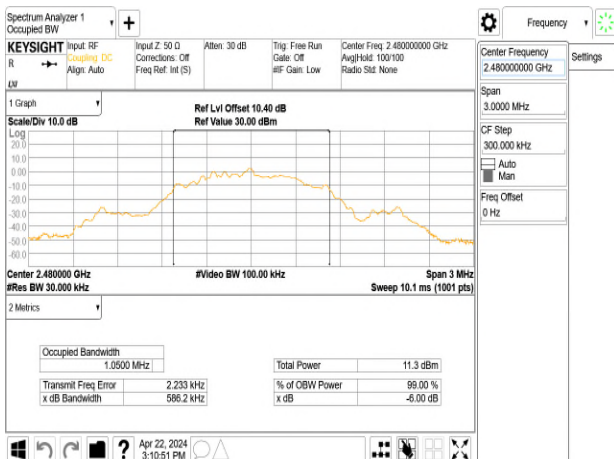
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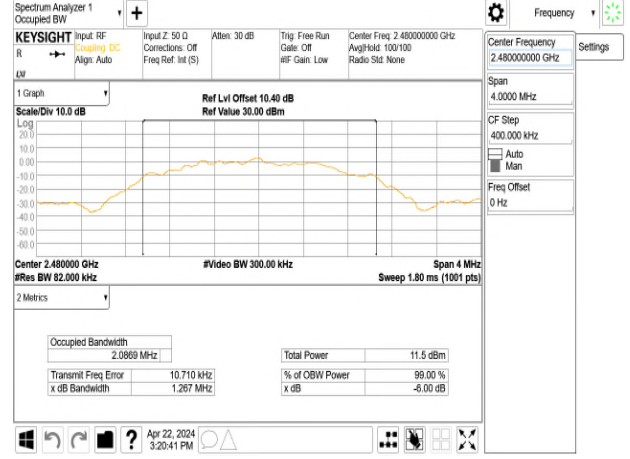
IC OBW_BLE 2M_MidCH20-2442MHz



IC OBW_BLE 1M_HighCH39-2480MHz



IC OBW_BLE 2M_HighCH39-2480MHz



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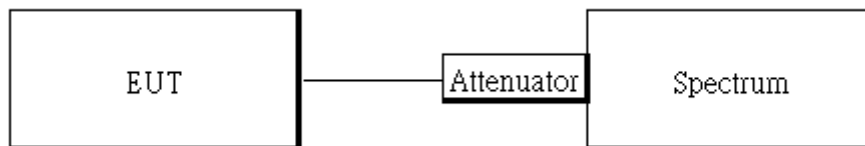
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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.

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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.
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	4.04	-15.96
2442	4.12	-15.88
2480	4.55	-15.45

***Note:**

- 1.cable loss as 10.4dB 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	3.14	-16.86
2442	3.18	-16.82
2480	3.64	-16.36

***Note:**

- 1.cable loss as 10.4dB that offsets in the spectrum
- 2.Refer to next page for plots.

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台灣檢驗科技股份有限公司

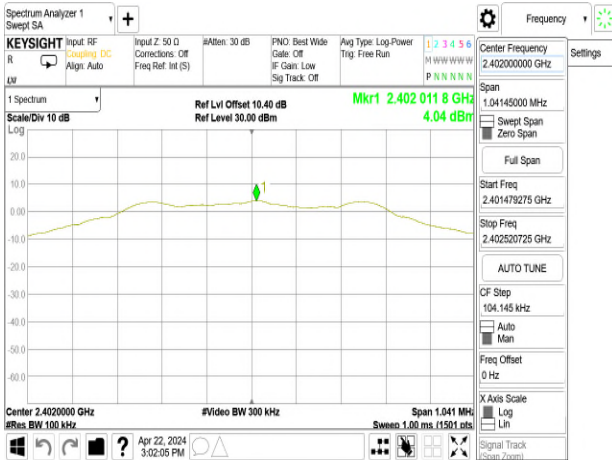
t (886-2) 2299-3279

f (886-2) 2298-0488

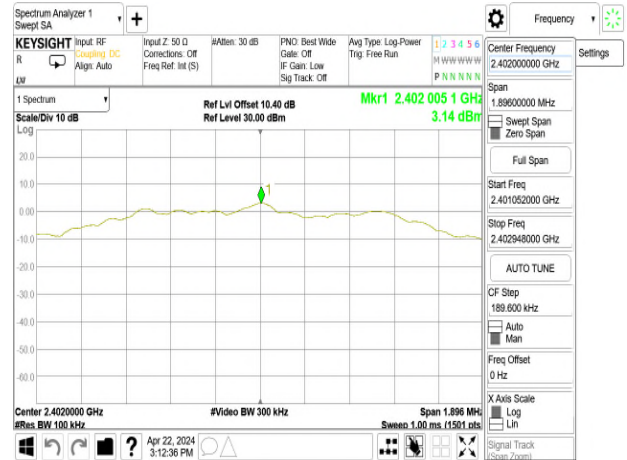
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Reference Level_BLE 1M_LowCH00-2402MHz



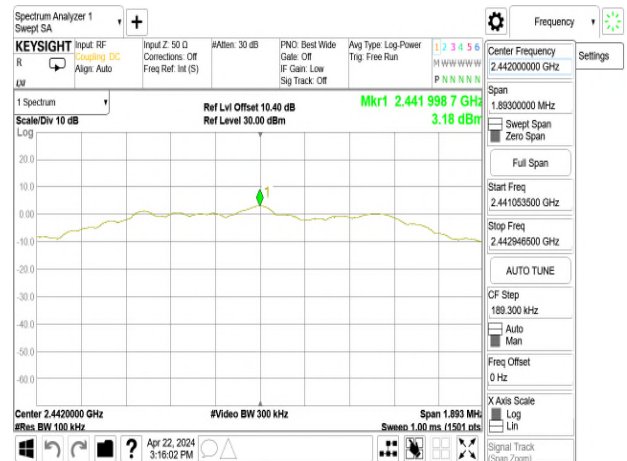
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Reference Level_BLE 1M_MidCH20-2442MHz



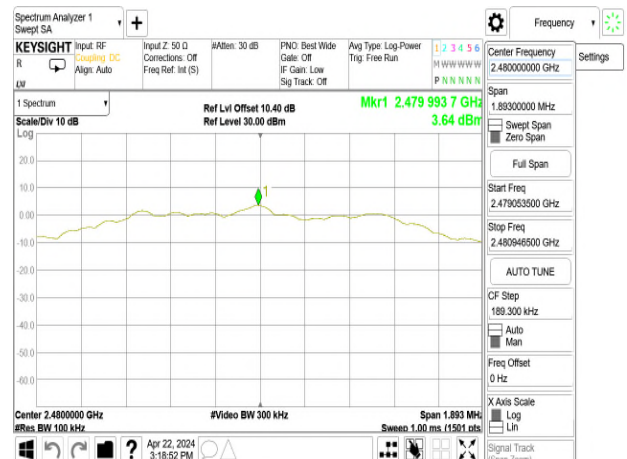
Reference Level_BLE 2M_MidCH20-2442MHz



Reference Level_BLE 1M_HighCH39-2480MHz



Reference Level_BLE 2M_HighCH39-2480MHz

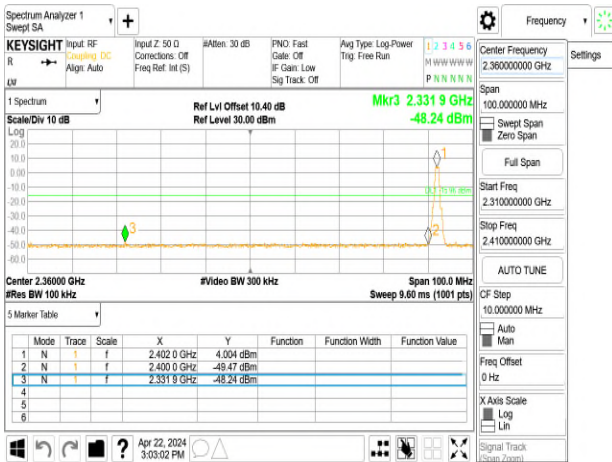


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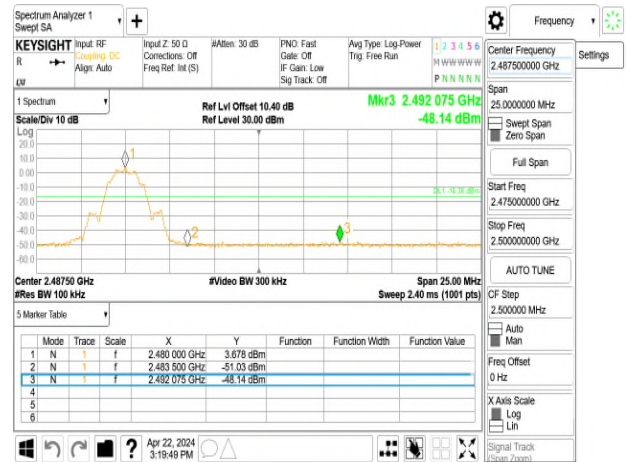
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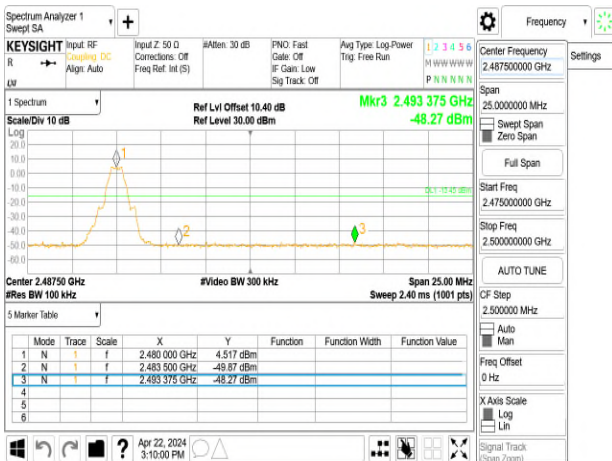
Band Edge_BLE 1M_LowCH00-2402MHz



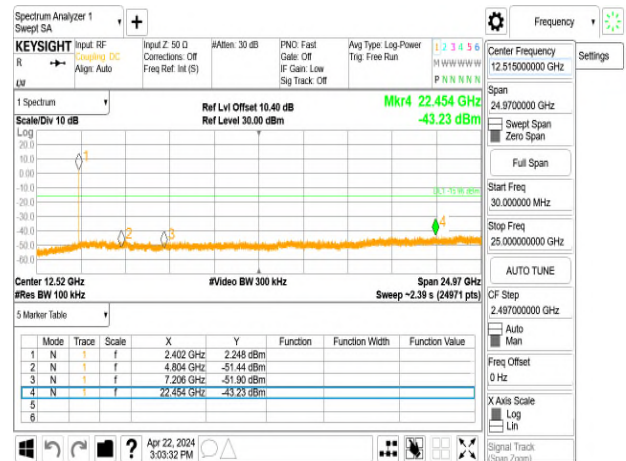
Band Edge_BLE 2M_HighCH39-2480MHz



Band Edge_BLE 1M_HighCH39-2480MHz



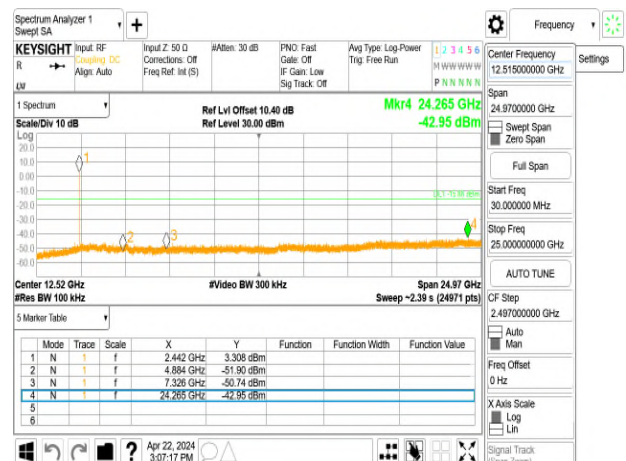
Spurious Emission_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



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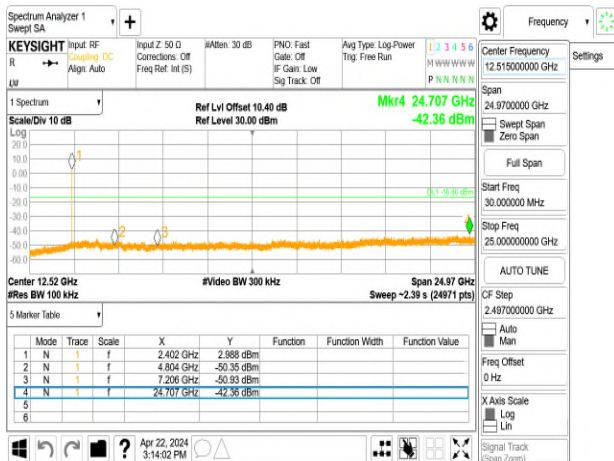
Spurious Emission_BLE 1M_HighCH39-2480MHz



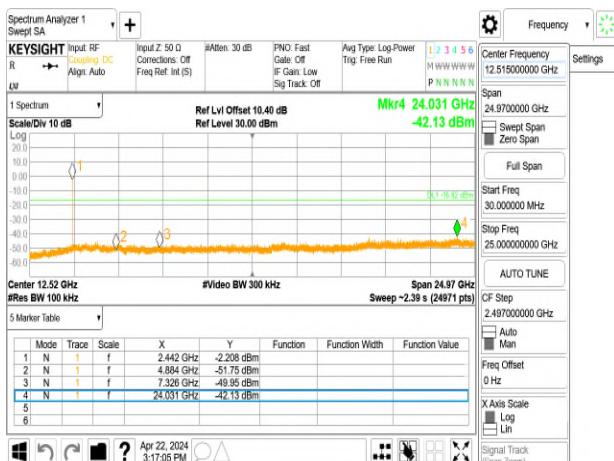
Spurious Emission_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Spurious Emission

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

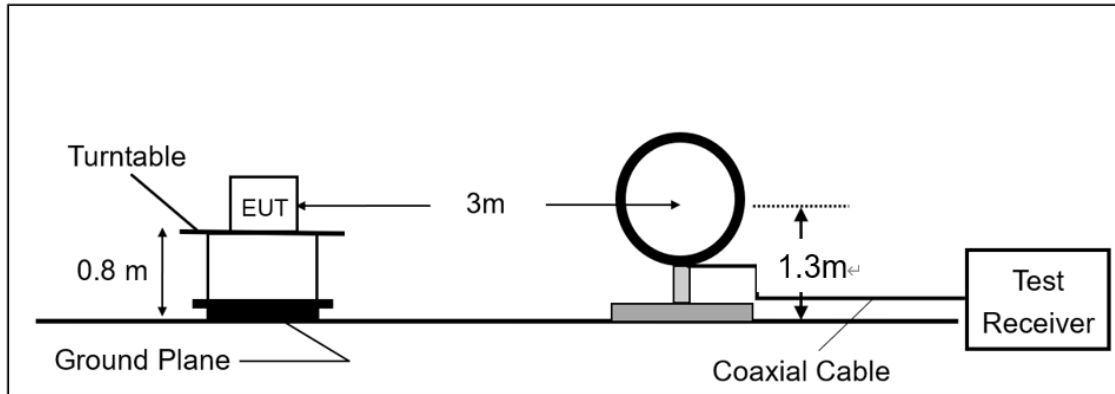
Note: The lower limit shall apply at the transition frequencies.

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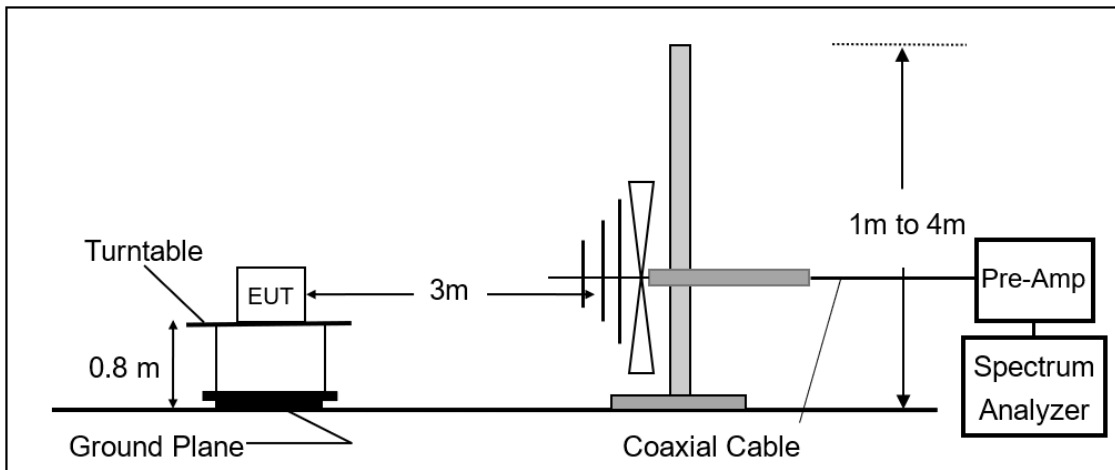
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11.1 Test Setup

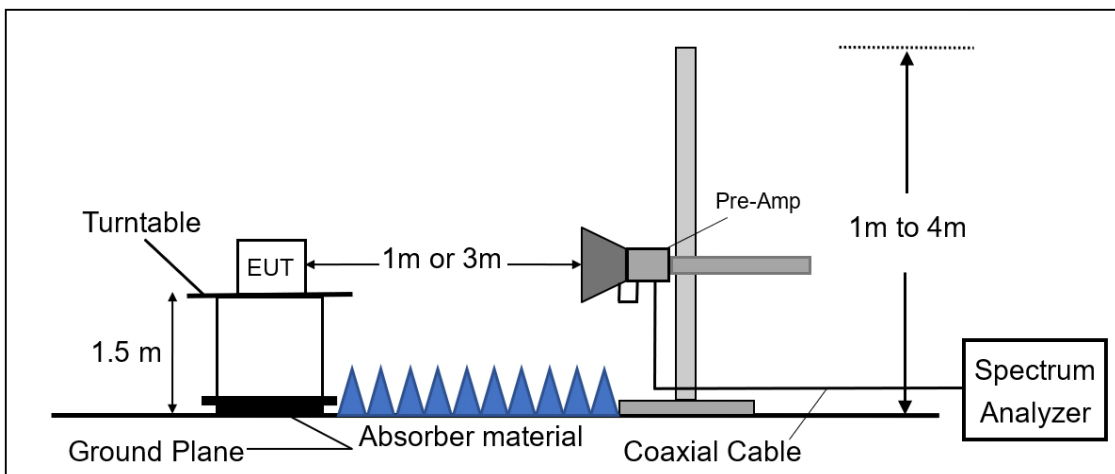
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.2 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.
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.

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11.3 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 $20 \cdot \log(\mu V/m)$

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

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

11.4 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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11.4.1 Radiated Band Edge Measurement Result

dipole

Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-29

Test Frequency :2402 MHz

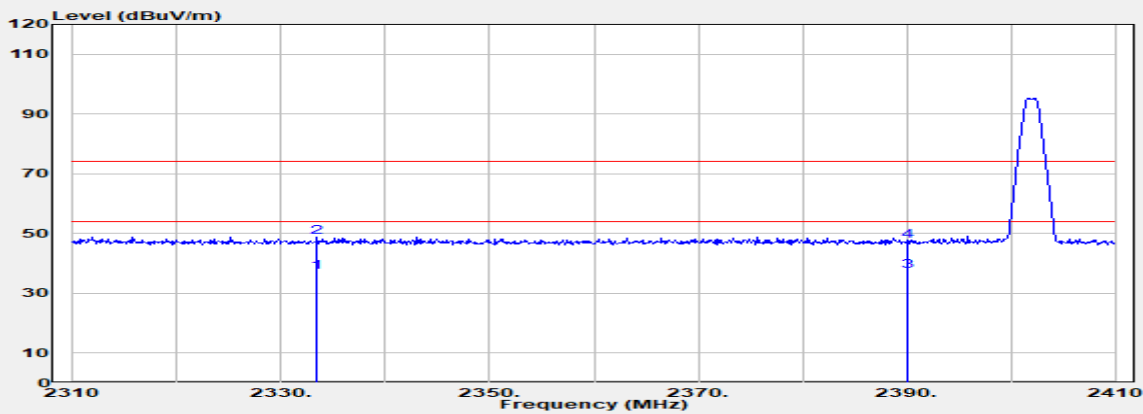
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2333.400	Average	39.62	-2.40	37.22	54.00	-16.78
2333.400	Peak	51.19	-2.40	48.79	74.00	-25.21
2390.000	Average	39.71	-2.46	37.25	54.00	-16.75
2390.000	Peak	49.99	-2.46	47.53	74.00	-26.47

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-29

Test Frequency :2402 MHz

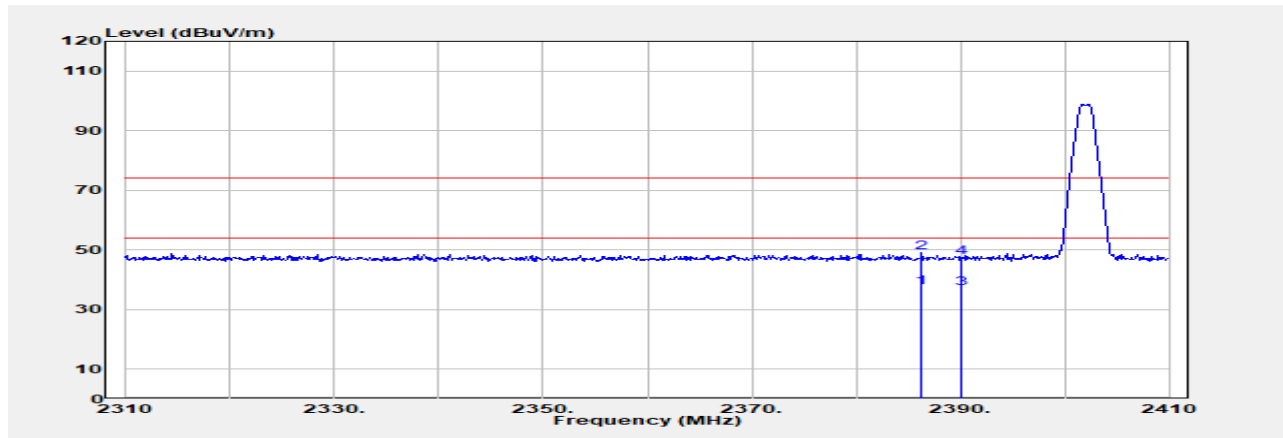
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.300	Average	39.84	-2.45	37.38	54.00	-16.62
2386.300	Peak	51.45	-2.45	49.00	74.00	-25.00
2390.000	Average	39.65	-2.46	37.19	54.00	-16.81
2390.000	Peak	49.84	-2.46	47.38	74.00	-26.62

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-29

Test Frequency :2480 MHz

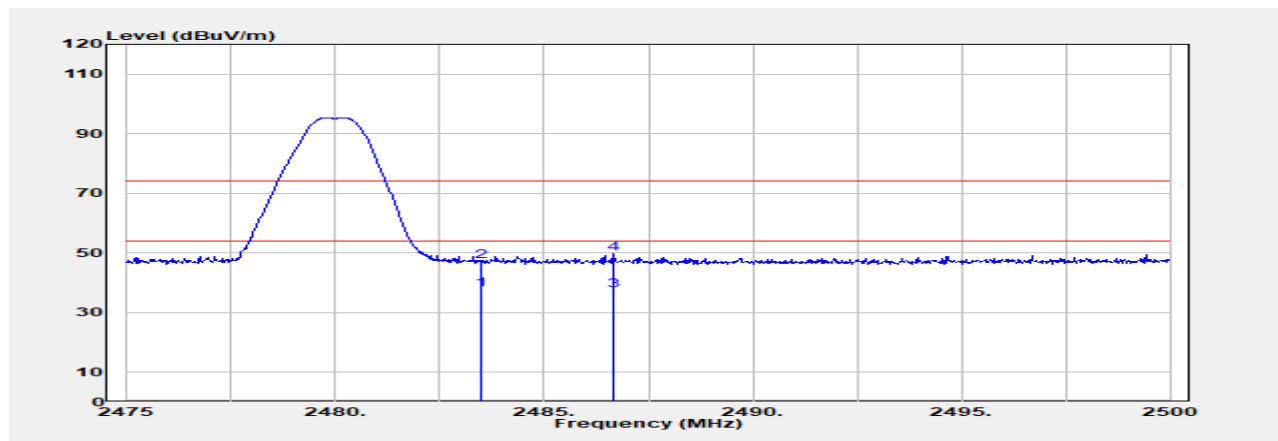
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.05	-2.48	37.57	54.00	-16.43
2483.500	Peak	49.48	-2.48	47.01	74.00	-26.99
2486.650	Average	39.81	-2.47	37.34	54.00	-16.66
2486.650	Peak	52.07	-2.47	49.60	74.00	-24.40

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-29

Test Frequency :2480 MHz

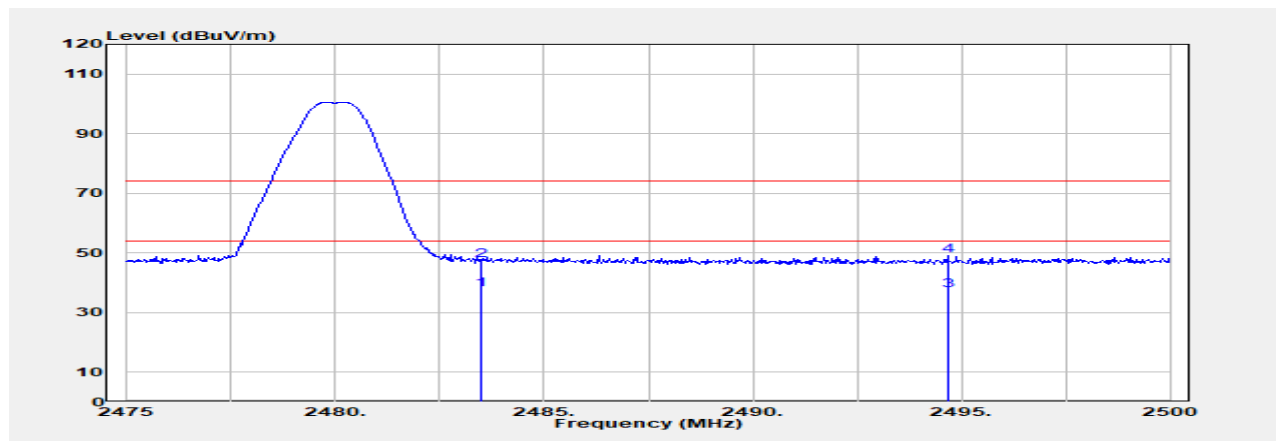
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.28	-2.48	37.81	54.00	-16.19
2483.500	Peak	49.96	-2.48	47.49	74.00	-26.51
2494.675	Average	39.73	-2.44	37.29	54.00	-16.71
2494.675	Peak	51.49	-2.44	49.05	74.00	-24.95

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-29

Test Frequency :2402 MHz

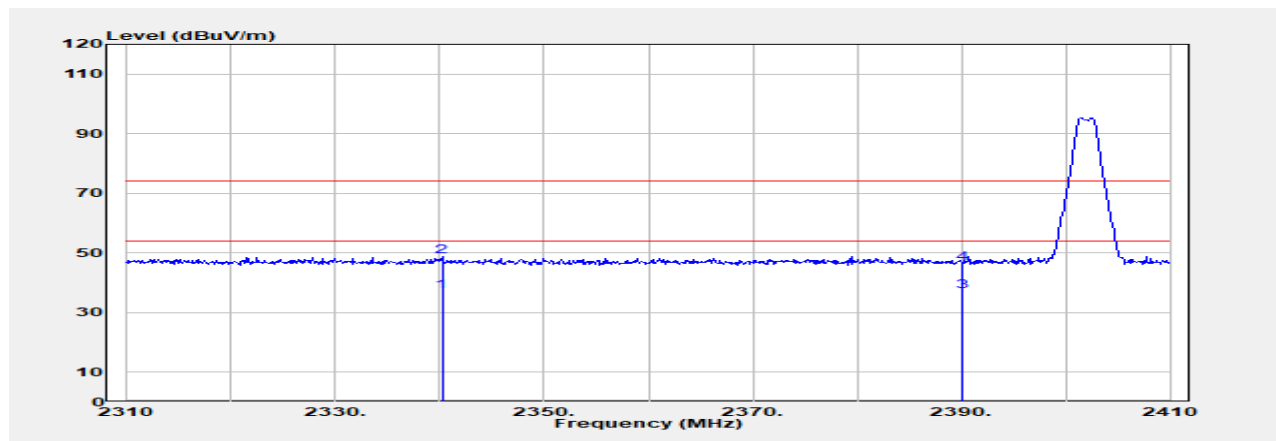
Temp./Humi. :20.6℃/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2340.200	Average	39.54	-2.40	37.14	54.00	-16.86
2340.200	Peak	51.23	-2.40	48.83	74.00	-25.17
2390.000	Average	39.57	-2.46	37.11	54.00	-16.89
2390.000	Peak	48.91	-2.46	46.45	74.00	-27.55

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-29

Test Frequency :2402 MHz

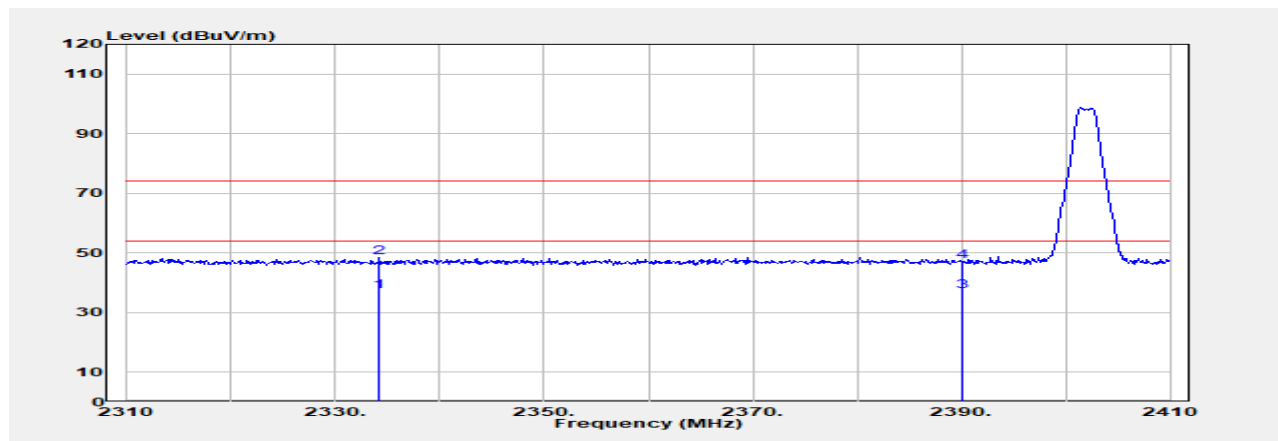
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2334.200	Average	39.39	-2.40	36.99	54.00	-17.01
2334.200	Peak	50.91	-2.40	48.52	74.00	-25.48
2390.000	Average	39.56	-2.46	37.10	54.00	-16.90
2390.000	Peak	49.69	-2.46	47.23	74.00	-26.77

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-29

Test Frequency :2480 MHz

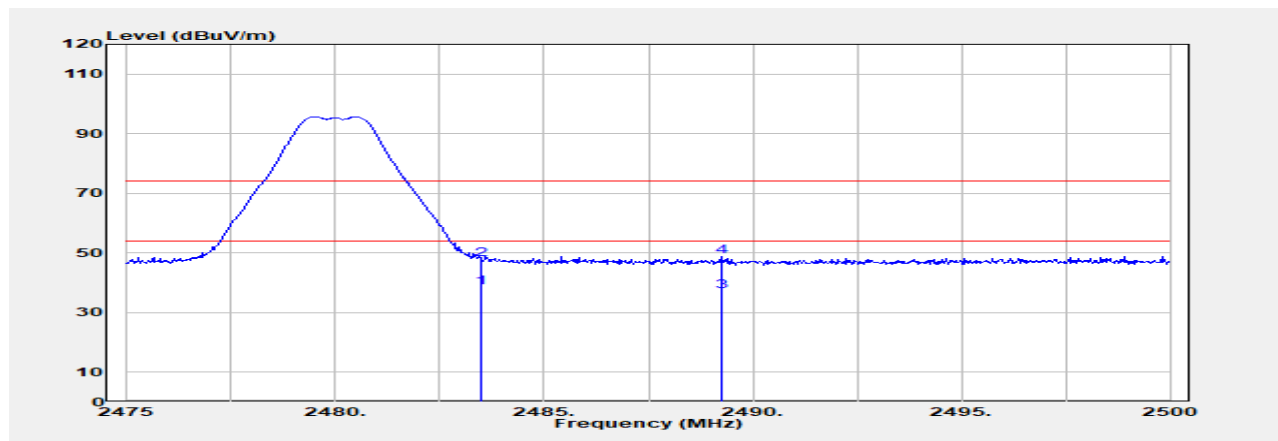
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.75	-2.48	38.27	54.00	-15.73
2483.500	Peak	50.27	-2.48	47.80	74.00	-26.20
2489.250	Average	39.61	-2.46	37.15	54.00	-16.85
2489.250	Peak	51.34	-2.46	48.88	74.00	-25.12

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-29

Test Frequency :2480 MHz

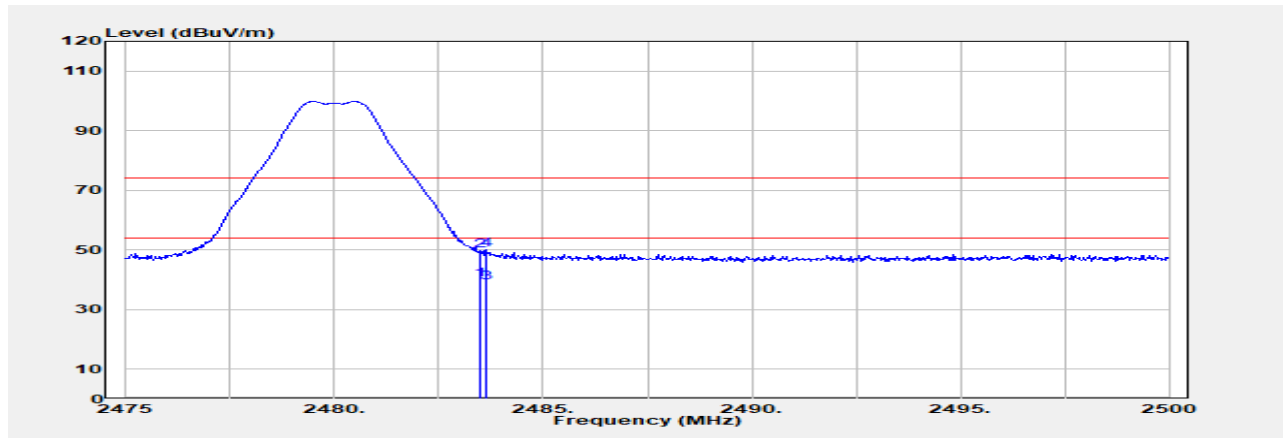
Temp./Humi. :20.6°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.32	-2.48	39.84	54.00	-14.16
2483.500	Peak	52.38	-2.48	49.91	74.00	-24.09
2483.625	Average	41.61	-2.48	39.13	54.00	-14.87
2483.625	Peak	52.58	-2.48	50.11	74.00	-23.89

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monopole

Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2402 MHz

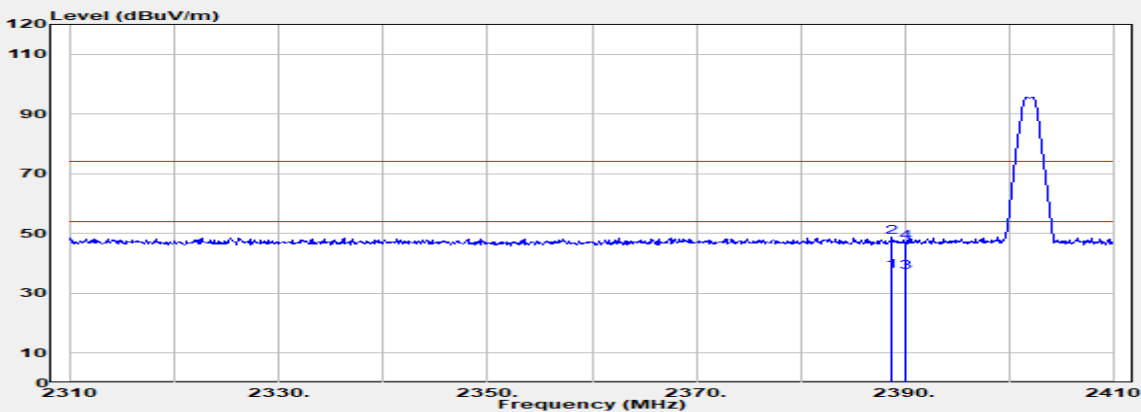
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.800	Average	39.76	-2.46	37.31	54.00	-16.69
2388.800	Peak	51.18	-2.46	48.72	74.00	-25.28
2390.000	Average	39.64	-2.46	37.18	54.00	-16.82
2390.000	Peak	49.65	-2.46	47.19	74.00	-26.81

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2402 MHz

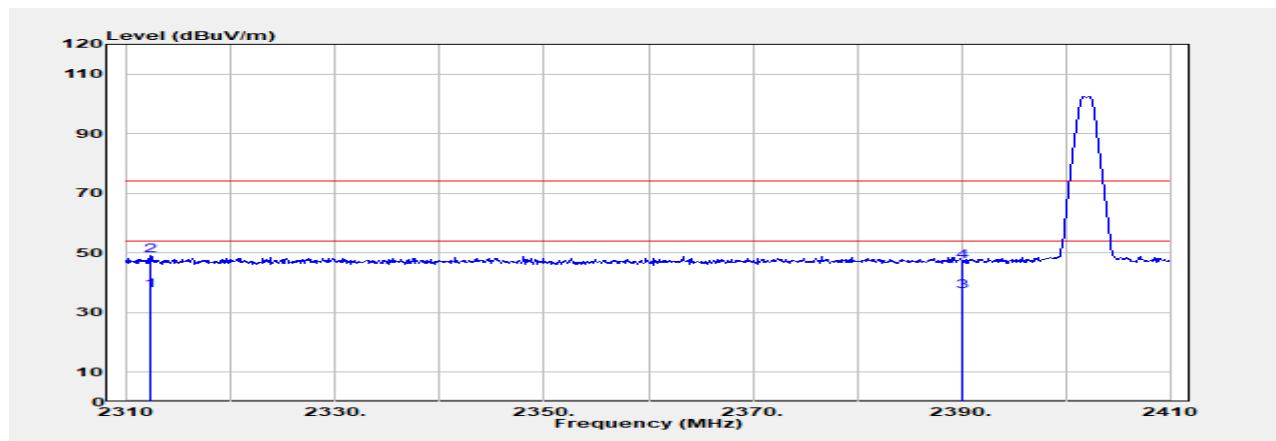
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2312.200	Average	39.69	-2.37	37.32	54.00	-16.68
2312.200	Peak	51.33	-2.37	48.96	74.00	-25.04
2390.000	Average	39.68	-2.46	37.22	54.00	-16.78
2390.000	Peak	49.60	-2.46	47.14	74.00	-26.86

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2480 MHz

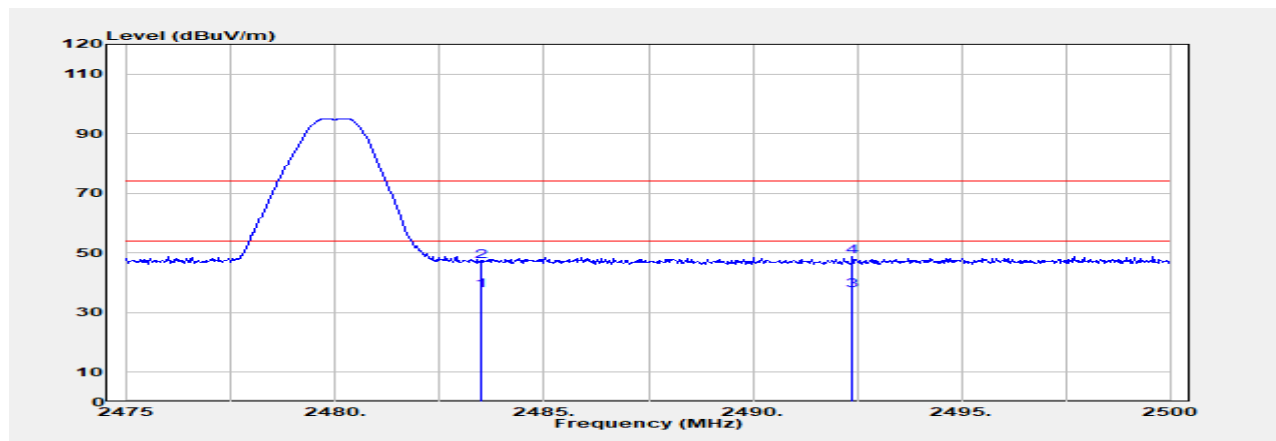
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	39.97	-2.48	37.49	54.00	-16.51
2483.500	Peak	49.75	-2.48	47.27	74.00	-26.73
2492.400	Average	39.72	-2.45	37.27	54.00	-16.73
2492.400	Peak	51.28	-2.45	48.84	74.00	-25.16

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2480 MHz

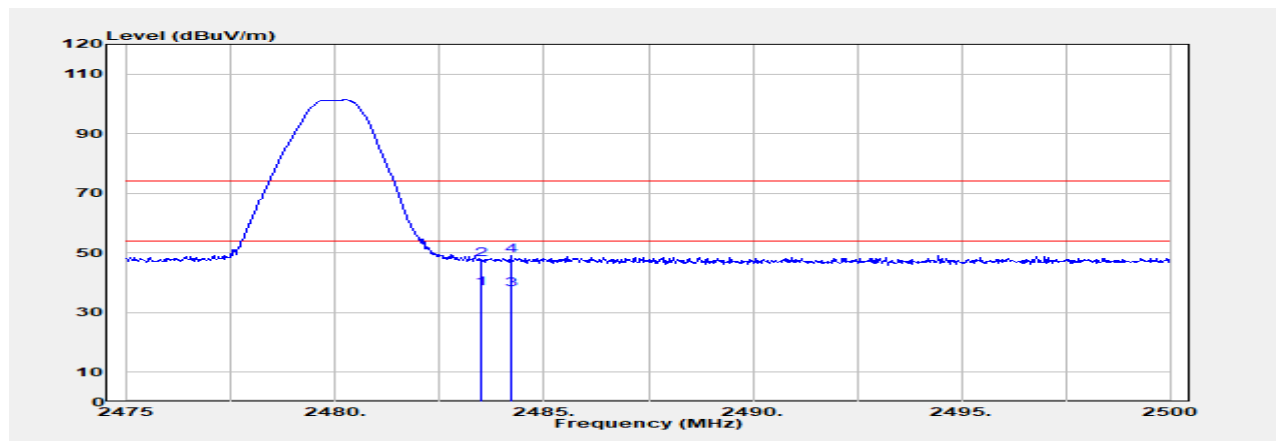
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.51	-2.48	38.03	54.00	-15.97
2483.500	Peak	50.13	-2.48	47.65	74.00	-26.35
2484.200	Average	40.31	-2.47	37.84	54.00	-16.16
2484.200	Peak	51.52	-2.47	49.05	74.00	-24.95

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2402 MHz

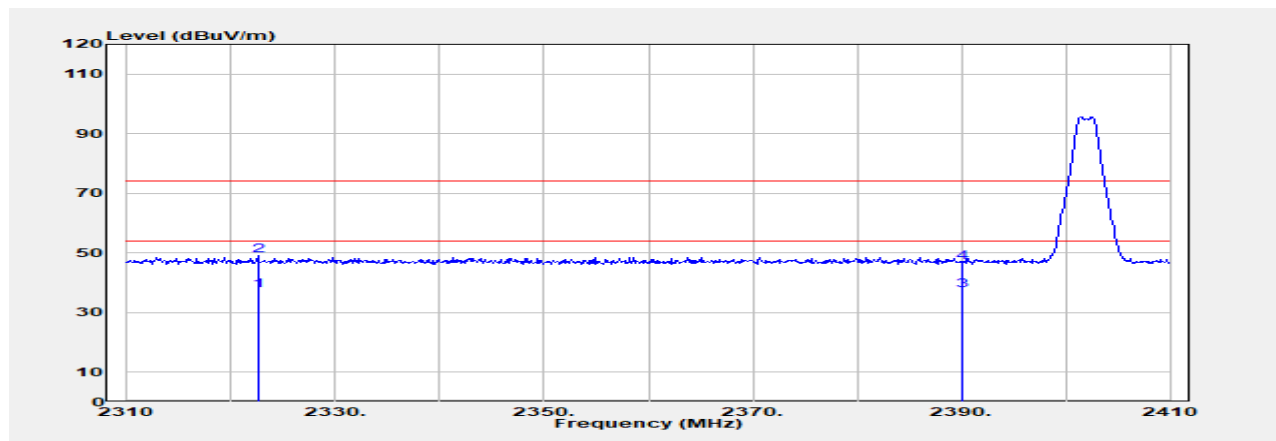
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2322.600	Average	39.66	-2.38	37.27	54.00	-16.73
2322.600	Peak	51.59	-2.38	49.21	74.00	-24.79
2390.000	Average	39.72	-2.46	37.26	54.00	-16.74
2390.000	Peak	49.18	-2.46	46.72	74.00	-27.28

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2402 MHz

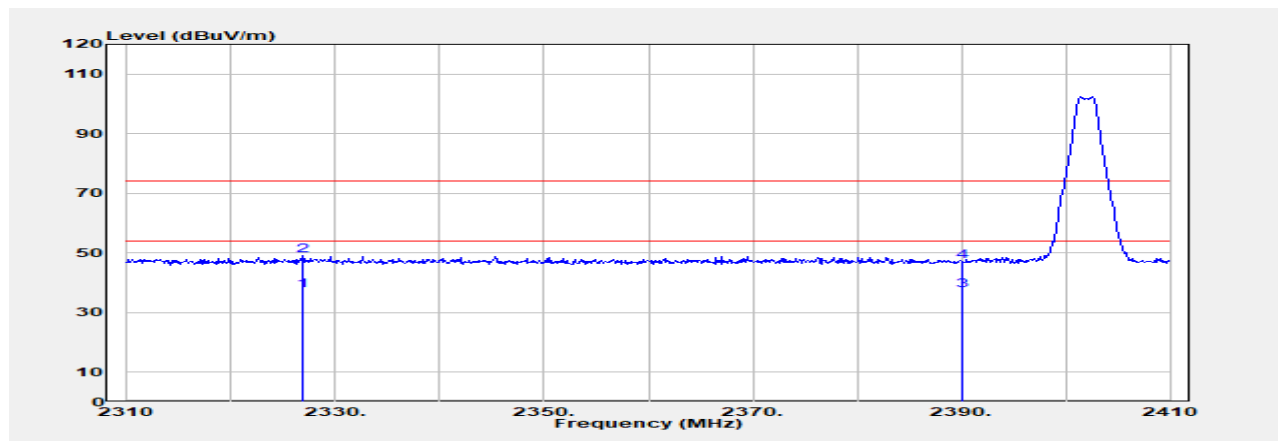
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2326.900	Average	39.93	-2.39	37.54	54.00	-16.46
2326.900	Peak	51.38	-2.39	48.99	74.00	-25.01
2390.000	Average	39.77	-2.46	37.31	54.00	-16.69
2390.000	Peak	49.46	-2.46	47.00	74.00	-27.00

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2480 MHz

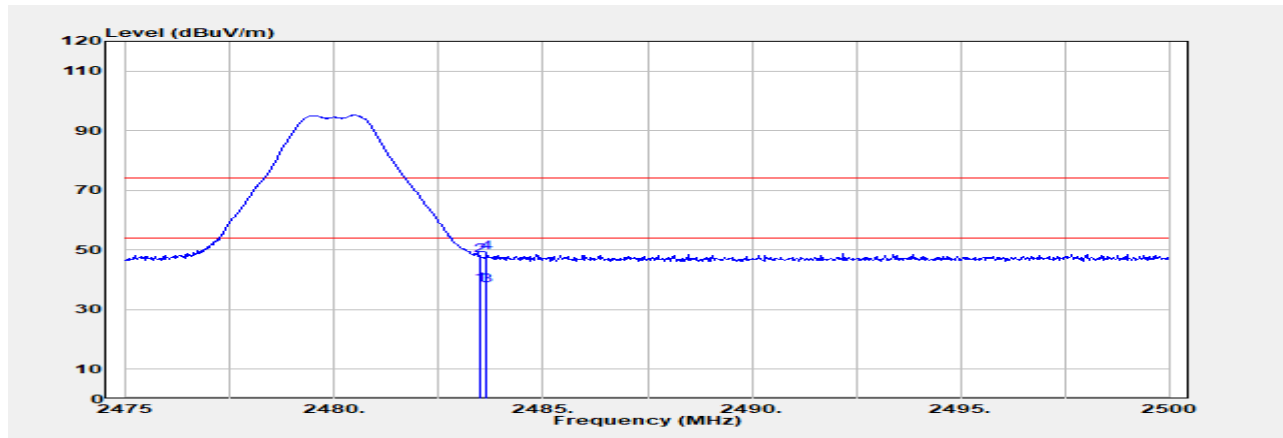
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.75	-2.48	38.27	54.00	-15.73
2483.500	Peak	50.50	-2.48	48.02	74.00	-25.98
2483.650	Average	40.43	-2.48	37.96	54.00	-16.04
2483.650	Peak	51.51	-2.48	49.03	74.00	-24.97

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2480 MHz

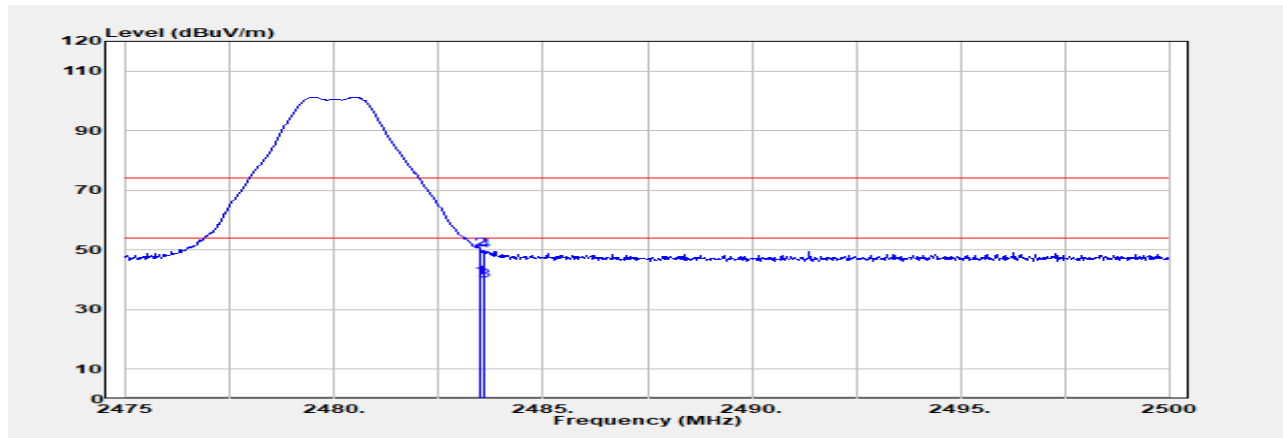
Temp./Humi. :20.8°C/58%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.01	-2.48	40.54	54.00	-13.46
2483.500	Peak	52.68	-2.48	50.20	74.00	-23.80
2483.600	Average	42.29	-2.48	39.82	54.00	-14.18
2483.600	Peak	52.16	-2.48	49.69	74.00	-24.31

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11.4.2 Radiated Spurious Emission

dipole

Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-05-13

Test Frequency :2442 MHz

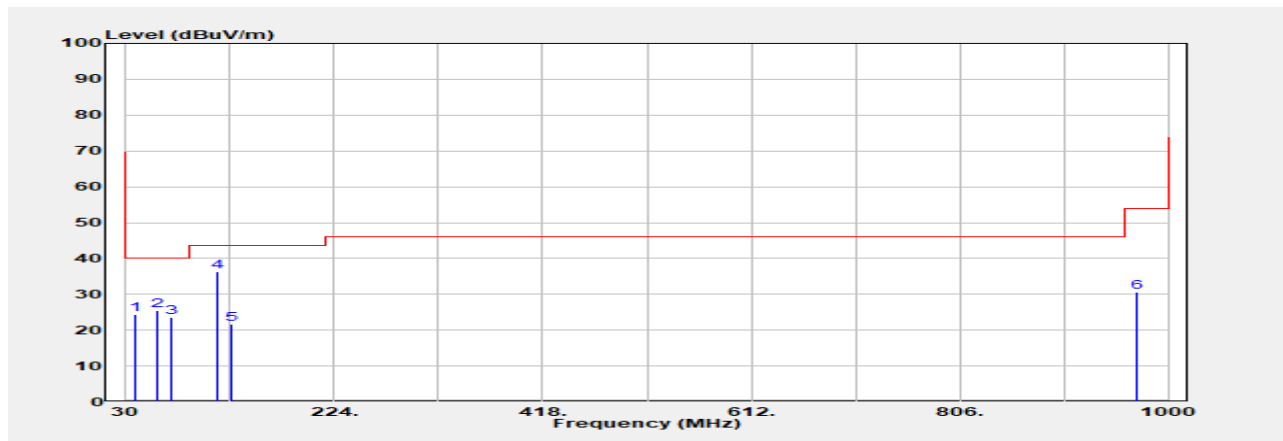
Temp./Humi. :21.8°C/56%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.760	QP	38.23	-13.83	24.40	40.00	-15.60
59.100	QP	38.41	-13.02	25.39	40.00	-14.61
71.710	QP	38.70	-15.08	23.62	40.00	-16.38
115.360	Peak	52.39	-15.95	36.45	43.50	-7.05
128.940	QP	36.50	-14.83	21.67	43.50	-21.83
970.900	Peak	29.47	1.26	30.73	54.00	-23.27

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-05-13

Test Frequency :2442 MHz

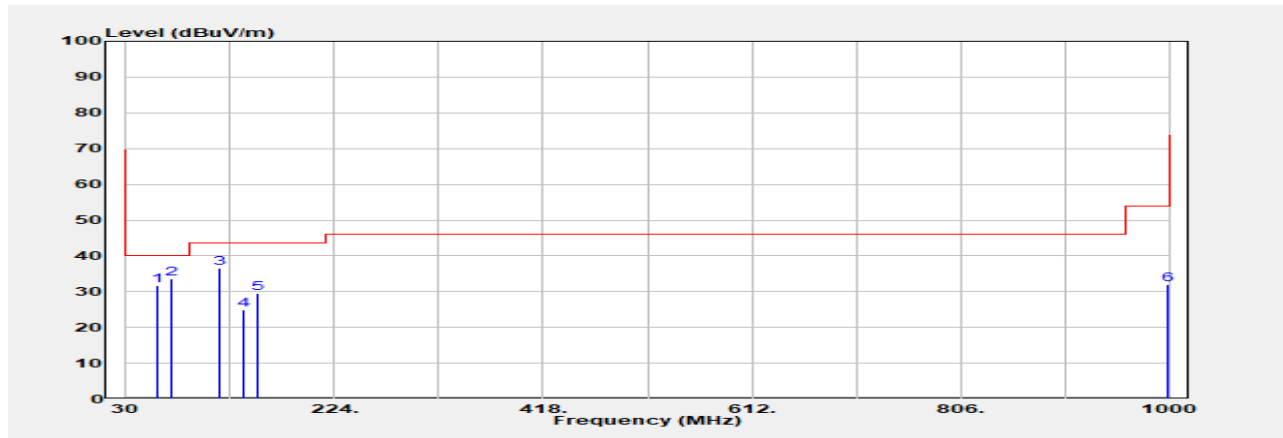
Temp./Humi. :21.8°C/56%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.100	Peak	44.61	-13.02	31.58	40.00	-8.42
71.710	Peak	48.69	-15.08	33.60	40.00	-6.40
116.330	Peak	52.33	-15.88	36.45	43.50	-7.05
138.640	QP	38.50	-13.63	24.87	43.50	-18.63
153.190	Peak	42.31	-12.81	29.49	43.50	-14.01
998.060	Peak	31.27	0.73	32.00	54.00	-22.00

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-05-13

Test Frequency :2442 MHz

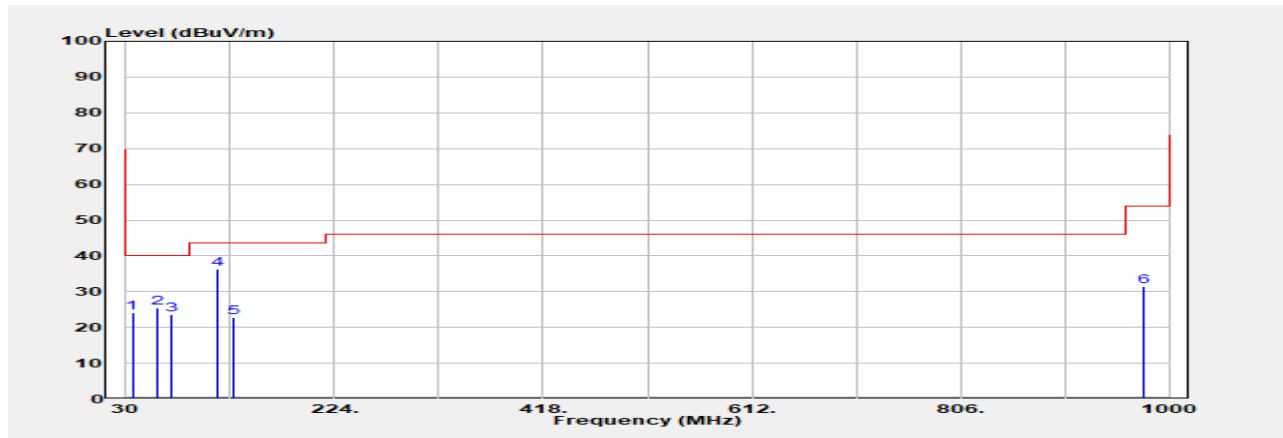
Temp./Humi. :21.8°C/56%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.820	QP	38.40	-14.25	24.15	40.00	-15.85
59.100	QP	38.50	-13.02	25.48	40.00	-14.52
71.710	QP	38.60	-15.08	23.52	40.00	-16.48
114.390	Peak	52.30	-15.94	36.36	43.50	-7.14
129.910	QP	37.40	-14.64	22.76	43.50	-20.74
976.720	Peak	30.39	1.03	31.42	54.00	-22.58

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-05-13

Test Frequency :2442 MHz

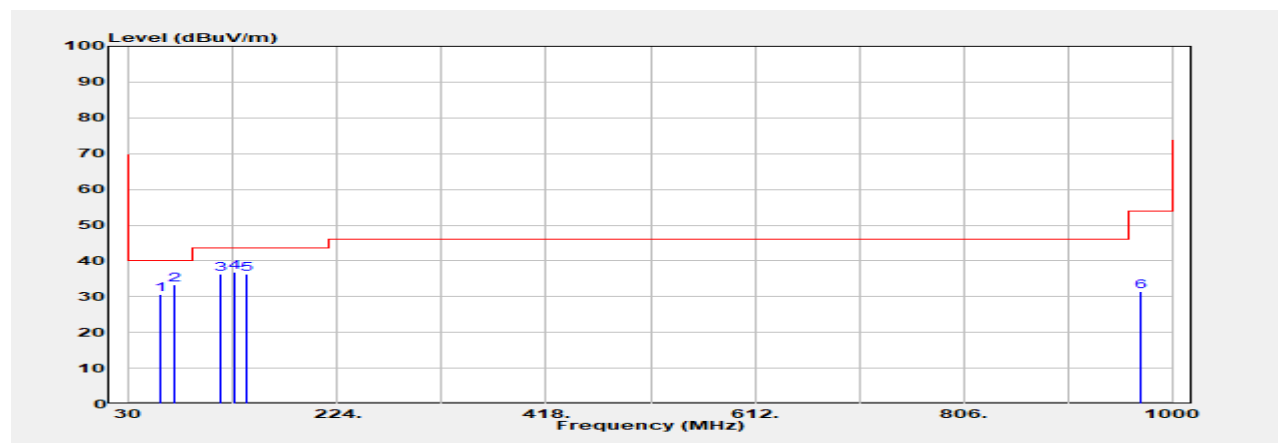
Temp./Humi. :21.8°C/56%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
59.100	Peak	43.64	-13.02	30.61	40.00	-9.39
71.710	Peak	48.46	-15.08	33.37	40.00	-6.63
114.390	Peak	52.36	-15.94	36.42	43.50	-7.08
127.970	Peak	51.88	-14.93	36.95	43.50	-6.55
138.640	Peak	49.88	-13.63	36.24	43.50	-7.26
970.900	Peak	30.04	1.26	31.30	54.00	-22.70

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2402 MHz

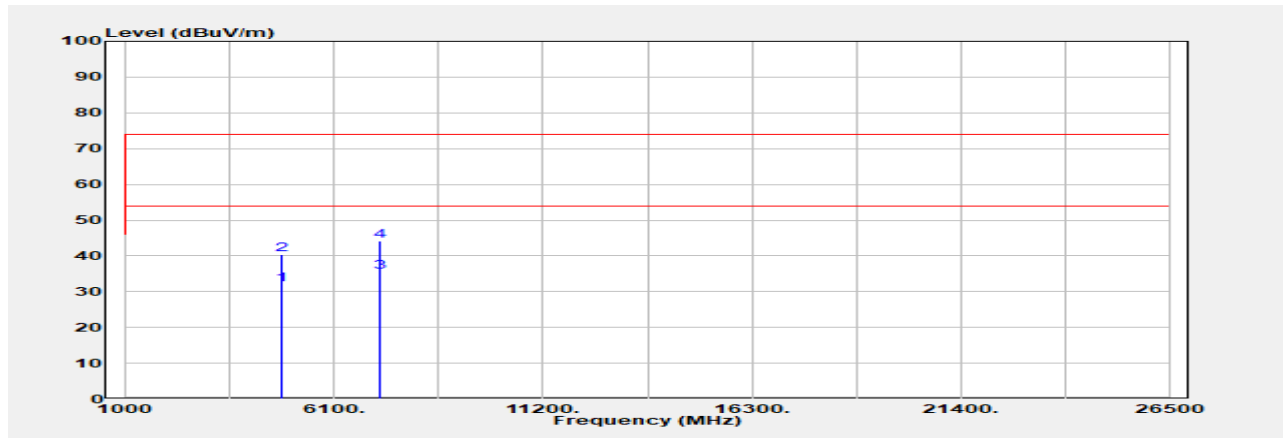
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	27.32	4.68	32.00	54.00	-22.00
4804.000	Peak	35.81	4.68	40.48	74.00	-33.52
7206.000	Average	25.67	9.79	35.46	54.00	-18.54
7206.000	Peak	34.32	9.79	44.11	74.00	-29.89

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2402 MHz

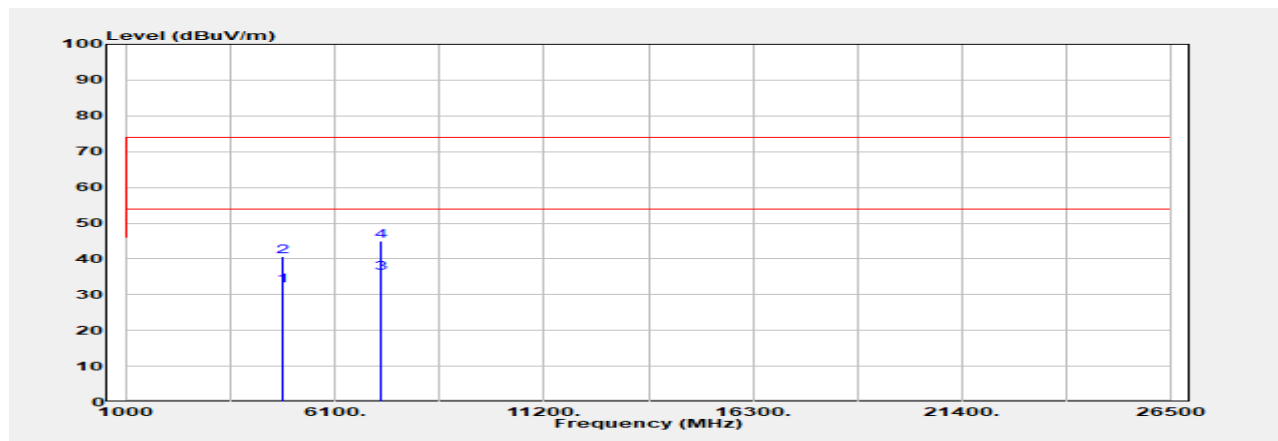
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	27.78	4.68	32.46	54.00	-21.54
4804.000	Peak	35.89	4.68	40.57	74.00	-33.43
7206.000	Average	26.35	9.79	36.14	54.00	-17.86
7206.000	Peak	35.06	9.79	44.85	74.00	-29.15

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2442 MHz

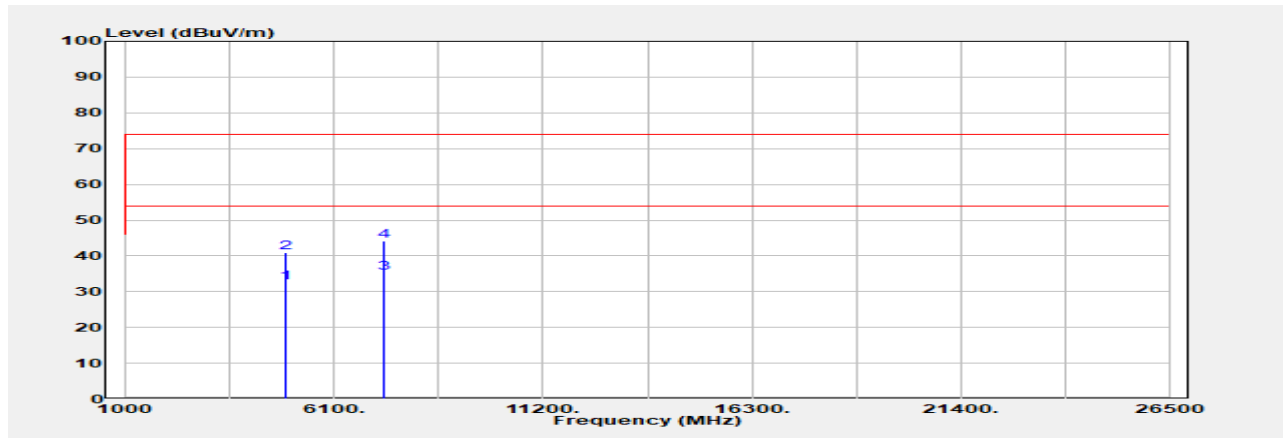
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	27.44	5.12	32.56	54.00	-21.44
4884.000	Peak	35.85	5.12	40.98	74.00	-33.02
7326.000	Average	25.88	9.34	35.22	54.00	-18.78
7326.000	Peak	34.96	9.34	44.30	74.00	-29.70

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2442 MHz

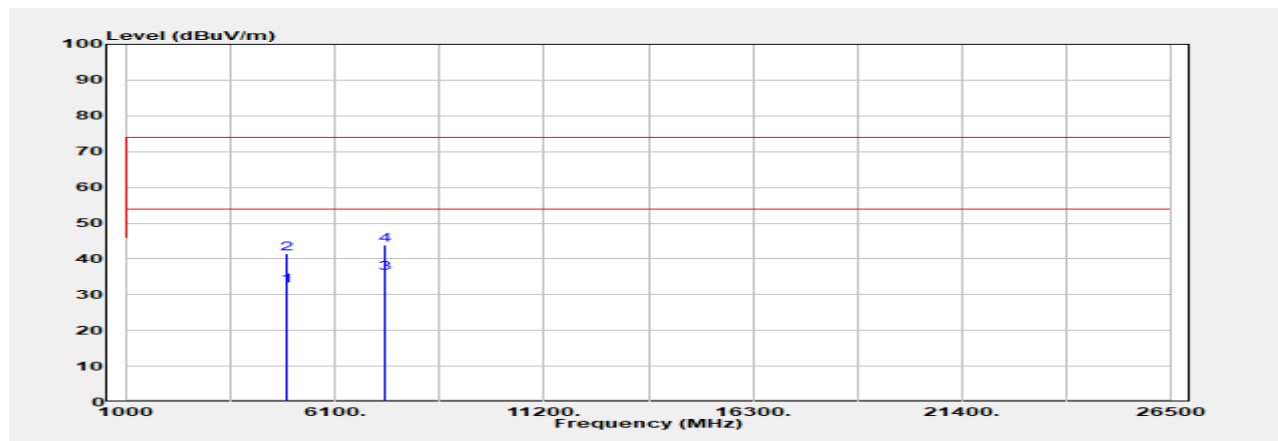
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	27.41	5.12	32.53	54.00	-21.47
4884.000	Peak	36.21	5.12	41.33	74.00	-32.67
7326.000	Average	26.66	9.34	36.00	54.00	-18.00
7326.000	Peak	34.59	9.34	43.92	74.00	-30.08

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2480 MHz

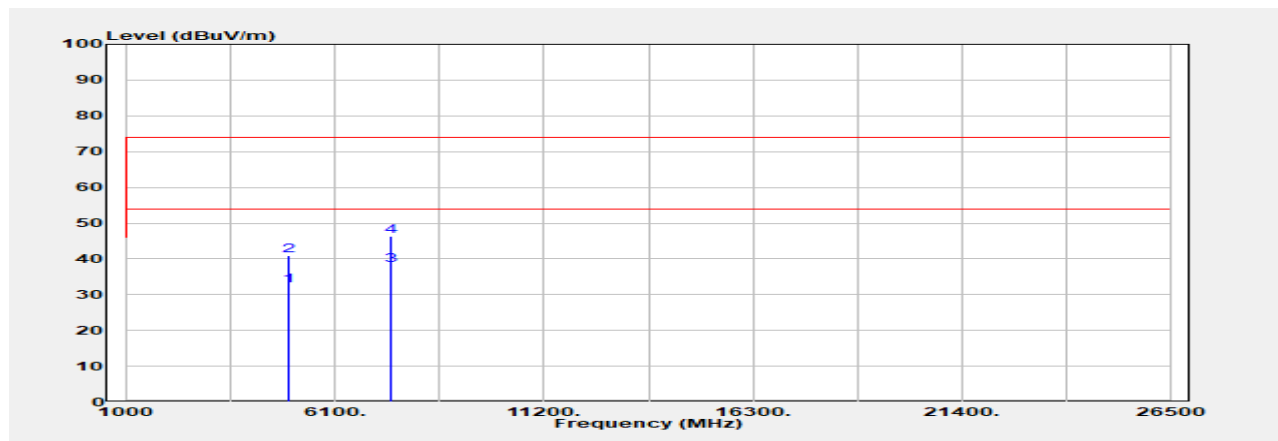
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.31	5.27	32.58	54.00	-21.42
4960.000	Peak	35.75	5.27	41.02	74.00	-32.98
7440.000	Average	26.95	11.25	38.20	54.00	-15.80
7440.000	Peak	35.01	11.25	46.26	74.00	-27.74

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2480 MHz

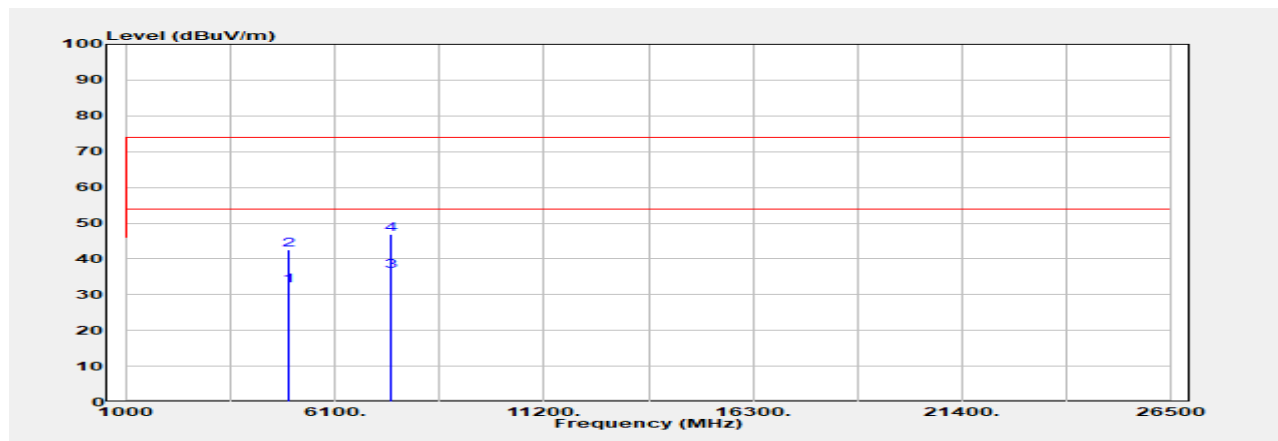
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.13	5.27	32.41	54.00	-21.59
4960.000	Peak	37.31	5.27	42.58	74.00	-31.42
7440.000	Average	25.44	11.25	36.69	54.00	-17.31
7440.000	Peak	35.53	11.25	46.78	74.00	-27.22

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2402 MHz

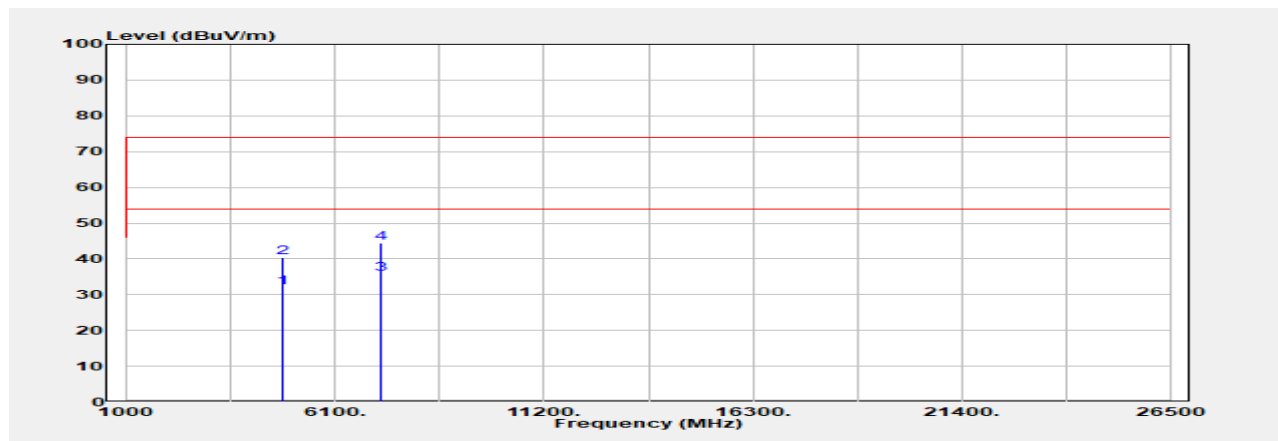
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	27.40	4.68	32.08	54.00	-21.92
4804.000	Peak	35.83	4.68	40.51	74.00	-33.49
7206.000	Average	25.88	9.79	35.67	54.00	-18.33
7206.000	Peak	34.60	9.79	44.39	74.00	-29.61

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2402 MHz

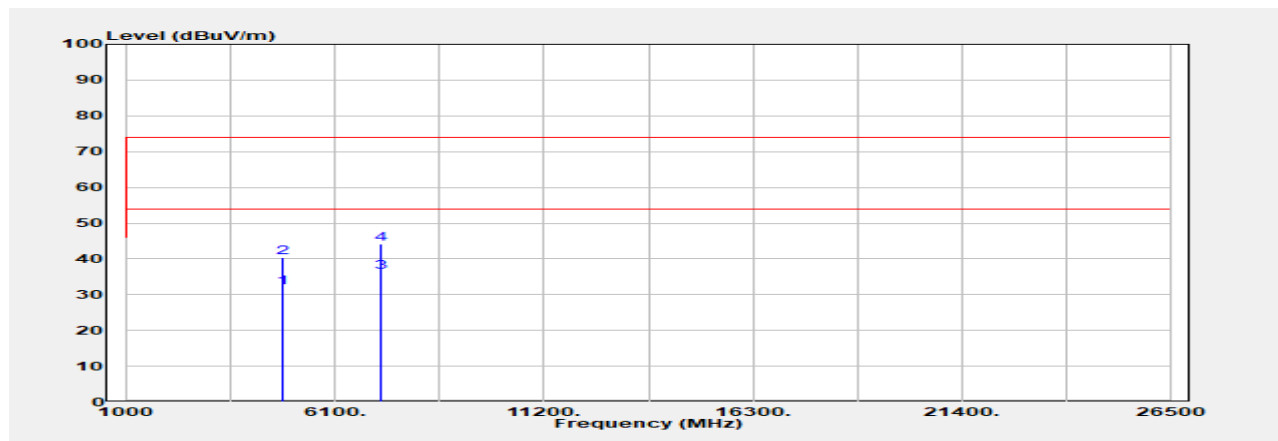
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	27.32	4.68	32.00	54.00	-22.00
4804.000	Peak	35.69	4.68	40.37	74.00	-33.63
7206.000	Average	26.40	9.79	36.19	54.00	-17.81
7206.000	Peak	34.32	9.79	44.11	74.00	-29.89

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2442 MHz

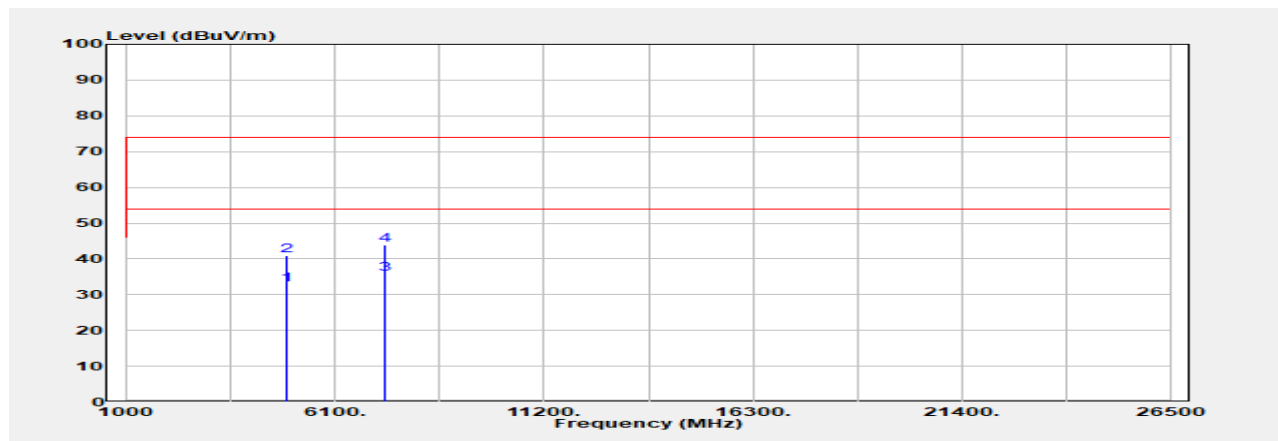
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	27.66	5.12	32.78	54.00	-21.22
4884.000	Peak	35.69	5.12	40.82	74.00	-33.18
7326.000	Average	26.54	9.34	35.88	54.00	-18.12
7326.000	Peak	34.58	9.34	43.92	74.00	-30.08

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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Member of SGS Group

Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2442 MHz

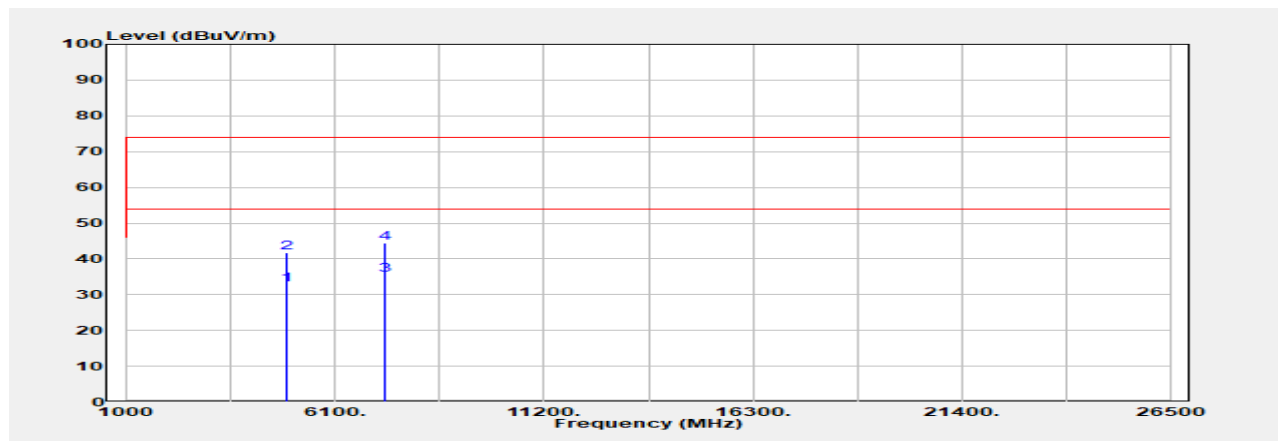
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	27.72	5.12	32.84	54.00	-21.16
4884.000	Peak	36.69	5.12	41.82	74.00	-32.18
7326.000	Average	26.21	9.34	35.55	54.00	-18.45
7326.000	Peak	35.10	9.34	44.44	74.00	-29.56

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2480 MHz

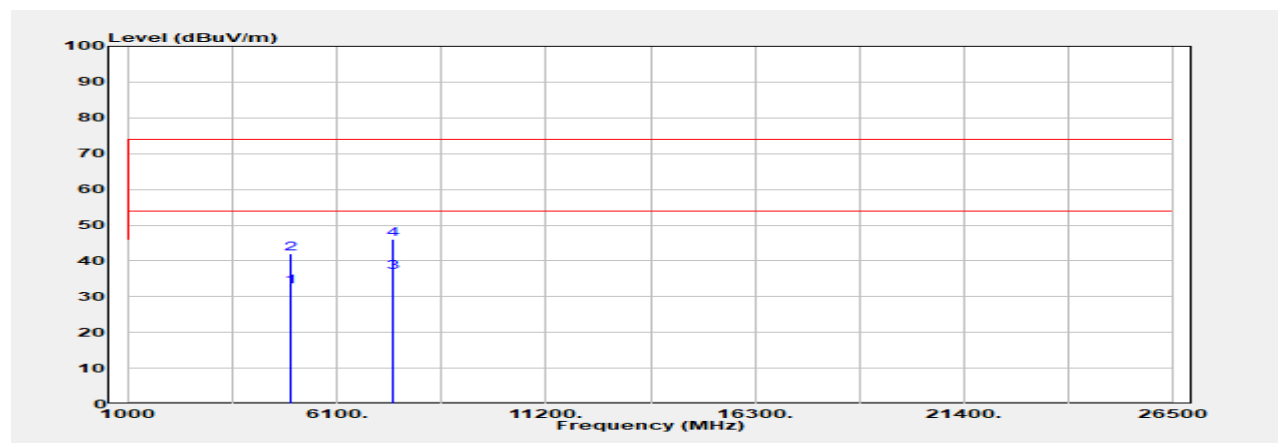
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.55	5.27	32.82	54.00	-21.18
4960.000	Peak	36.81	5.27	42.08	74.00	-31.92
7440.000	Average	25.72	11.25	36.97	54.00	-17.03
7440.000	Peak	34.75	11.25	46.00	74.00	-28.00

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2480 MHz

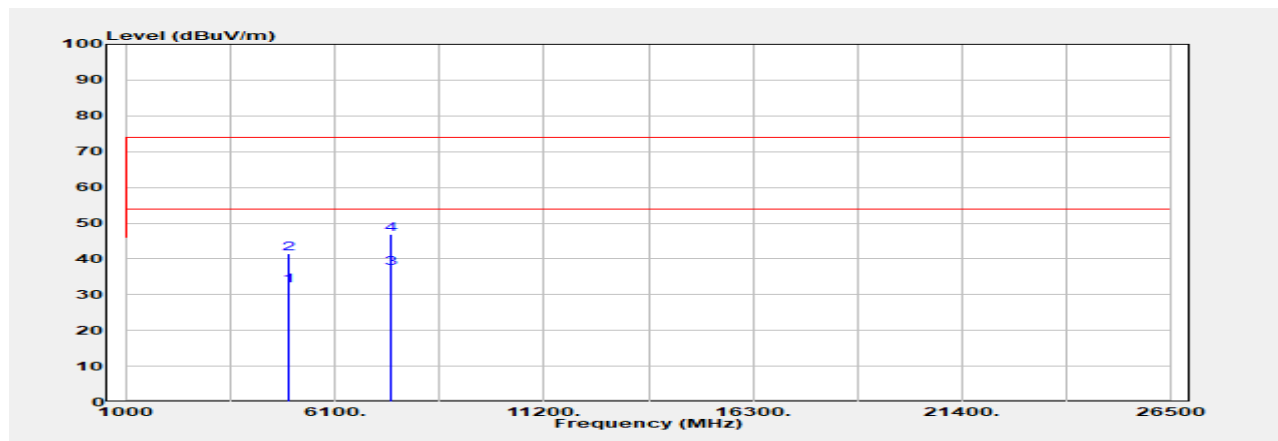
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.30	5.27	32.57	54.00	-21.43
4960.000	Peak	36.08	5.27	41.35	74.00	-32.65
7440.000	Average	26.22	11.25	37.47	54.00	-16.53
7440.000	Peak	35.74	11.25	46.99	74.00	-27.01

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monopole

Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-05-02

Test Frequency :2442 MHz

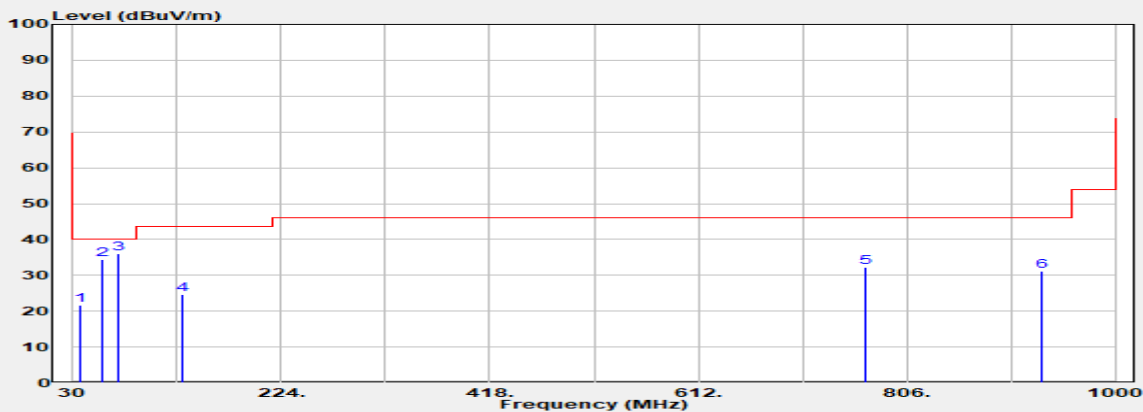
Temp./Humi. :23.5°C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.790	QP	35.80	-14.05	21.75	40.00	-18.25
58.130	QP	47.40	-12.95	34.45	40.00	-5.55
71.710	QP	51.00	-15.08	35.92	40.00	-4.08
131.850	QP	39.10	-14.49	24.61	43.50	-18.89
768.170	Peak	33.75	-1.58	32.17	46.00	-13.83
932.100	Peak	31.51	-0.25	31.26	46.00	-14.74

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-05-02

Test Frequency :2442 MHz

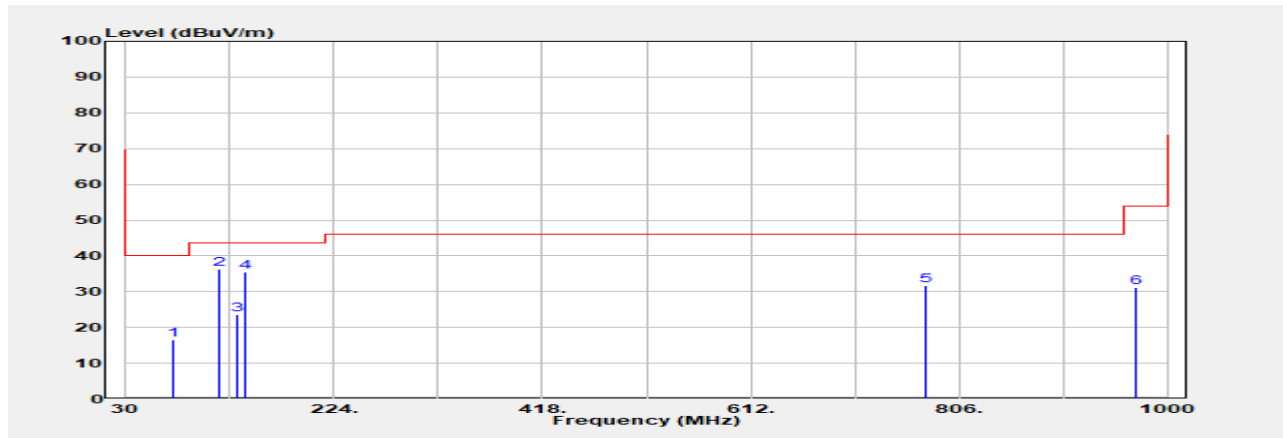
Temp./Humi. :23.5°C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.650	QP	32.20	-15.80	16.40	40.00	-23.60
117.300	Peak	52.20	-15.75	36.44	43.50	-7.06
132.820	QP	38.00	-14.40	23.60	43.50	-19.90
140.580	Peak	48.94	-13.51	35.43	43.50	-8.07
774.960	Peak	33.28	-1.52	31.75	46.00	-14.25
970.900	Peak	29.82	1.26	31.09	54.00	-22.91

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-05-02

Test Frequency :2442 MHz

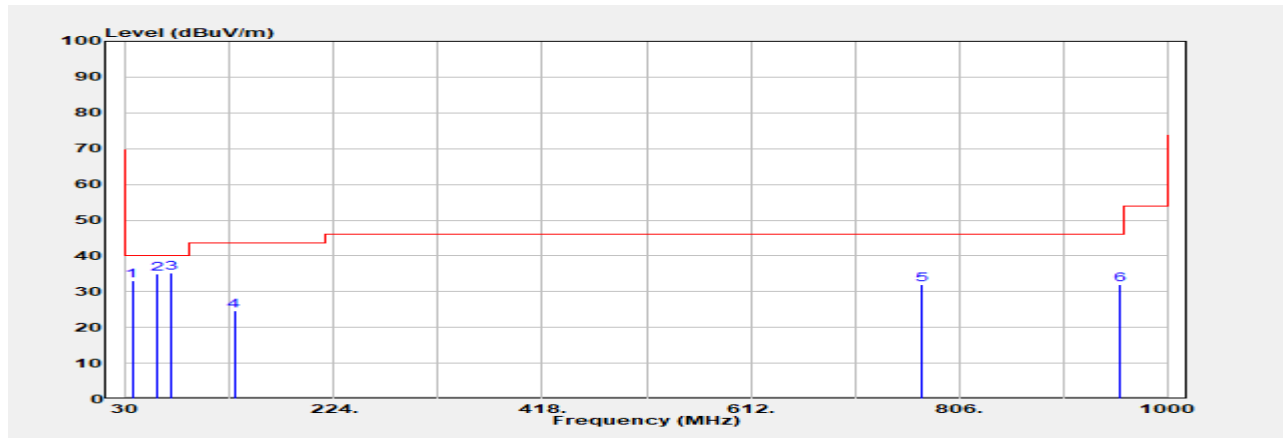
Temp./Humi. :23.5°C/55%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.820	QP	47.40	-14.25	33.15	40.00	-6.85
59.100	QP	48.10	-13.02	35.08	40.00	-4.92
71.710	QP	50.20	-15.08	35.12	40.00	-4.88
130.880	QP	39.30	-14.52	24.78	43.50	-18.72
771.080	Peak	33.55	-1.55	31.99	46.00	-14.01
955.380	Peak	31.37	0.74	32.11	46.00	-13.89

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Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-05-02

Test Frequency :2442 MHz

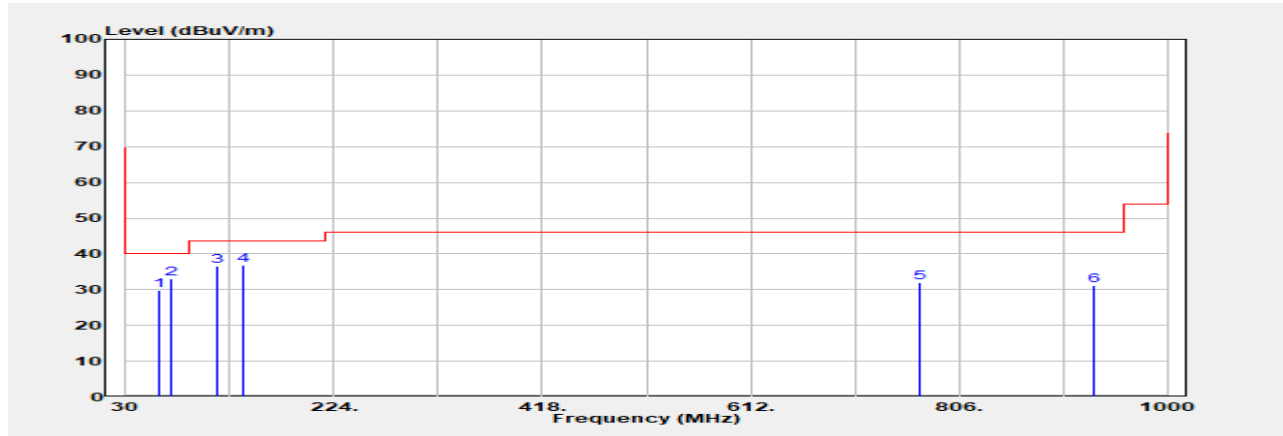
Temp./Humi. :23.5°C/55%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
61.040	Peak	42.96	-13.24	29.72	40.00	-10.28
72.680	Peak	48.38	-15.45	32.93	40.00	-7.07
115.360	Peak	52.61	-15.95	36.67	43.50	-6.83
138.640	Peak	50.53	-13.63	36.89	43.50	-6.61
769.140	Peak	33.48	-1.57	31.91	46.00	-14.09
931.130	Peak	31.45	-0.25	31.19	46.00	-14.81

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2402 MHz

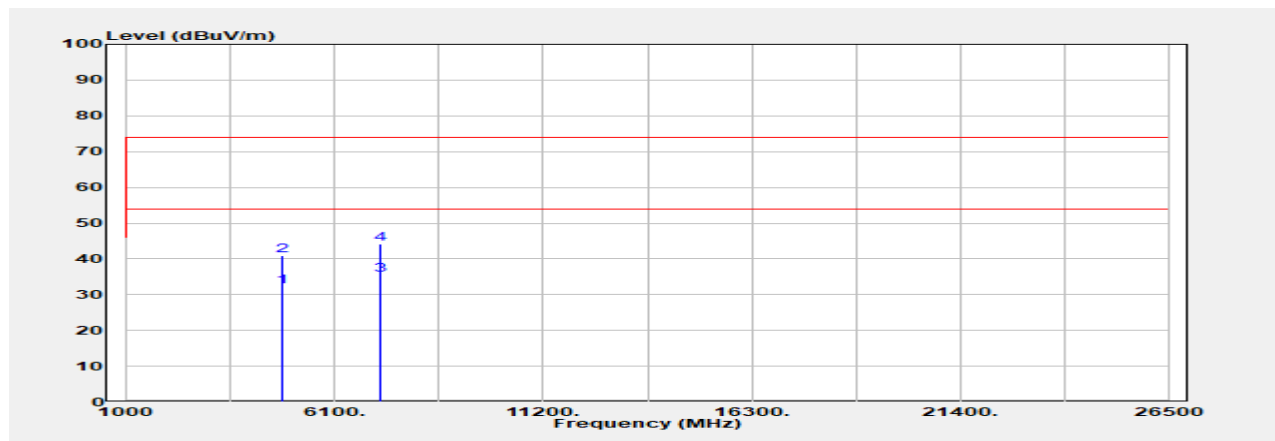
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	27.45	4.68	32.13	54.00	-21.87
4804.000	Peak	36.34	4.68	41.01	74.00	-32.99
7206.000	Average	25.66	9.79	35.45	54.00	-18.55
7206.000	Peak	34.49	9.79	44.28	74.00	-29.72

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2402 MHz

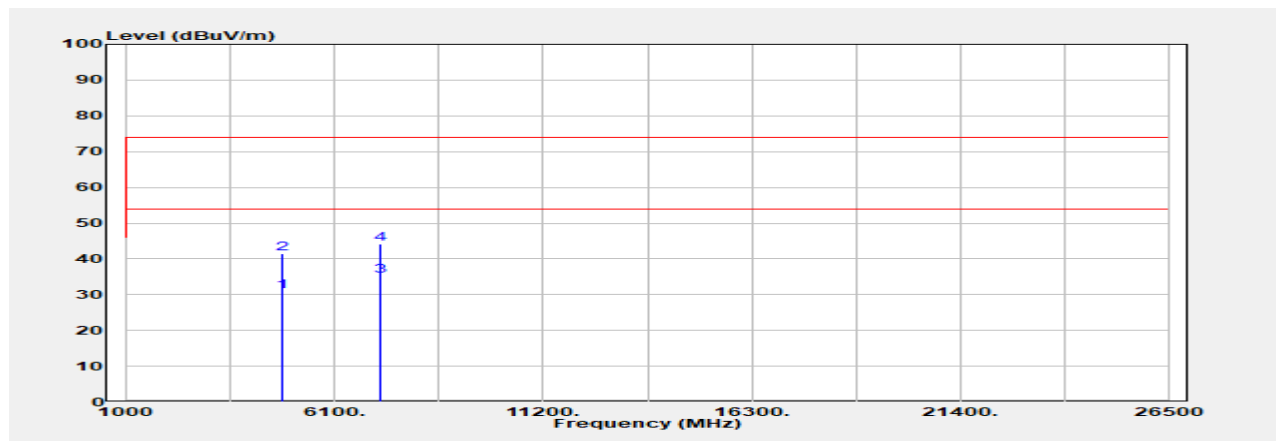
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	26.32	4.68	31.00	54.00	-23.00
4804.000	Peak	36.87	4.68	41.54	74.00	-32.46
7206.000	Average	25.41	9.79	35.20	54.00	-18.80
7206.000	Peak	34.44	9.79	44.23	74.00	-29.77

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2442 MHz

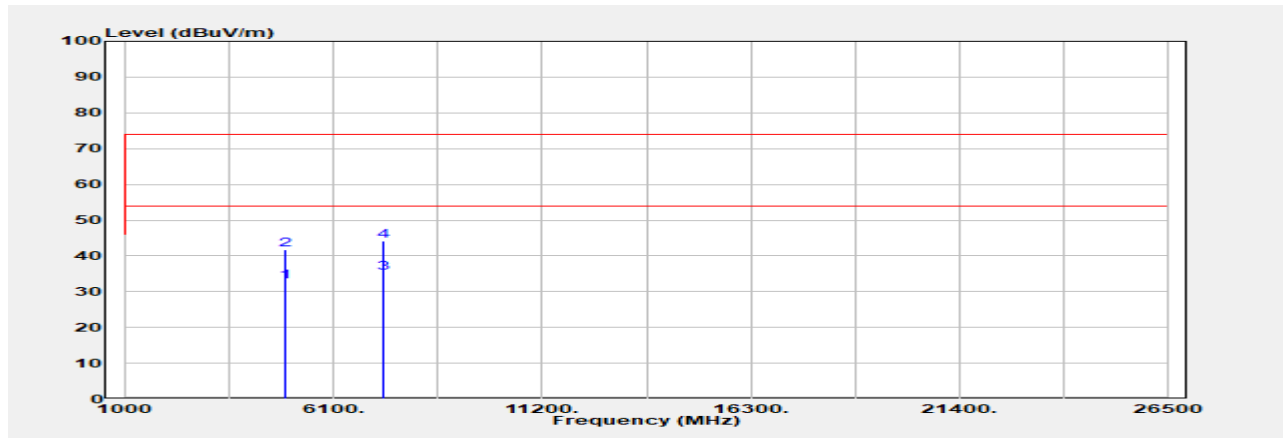
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	27.72	5.12	32.84	54.00	-21.16
4884.000	Peak	36.50	5.12	41.62	74.00	-32.38
7326.000	Average	25.81	9.34	35.15	54.00	-18.85
7326.000	Peak	34.93	9.34	44.27	74.00	-29.73

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2442 MHz

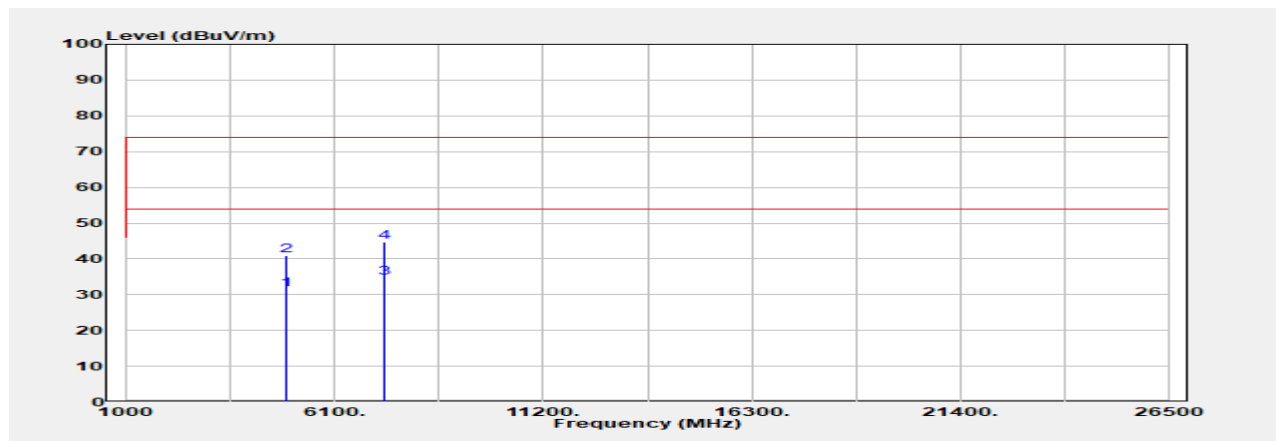
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	26.28	5.12	31.40	54.00	-22.60
4884.000	Peak	35.68	5.12	40.80	74.00	-33.20
7326.000	Average	25.44	9.34	34.78	54.00	-19.22
7326.000	Peak	35.31	9.34	44.65	74.00	-29.35

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2480 MHz

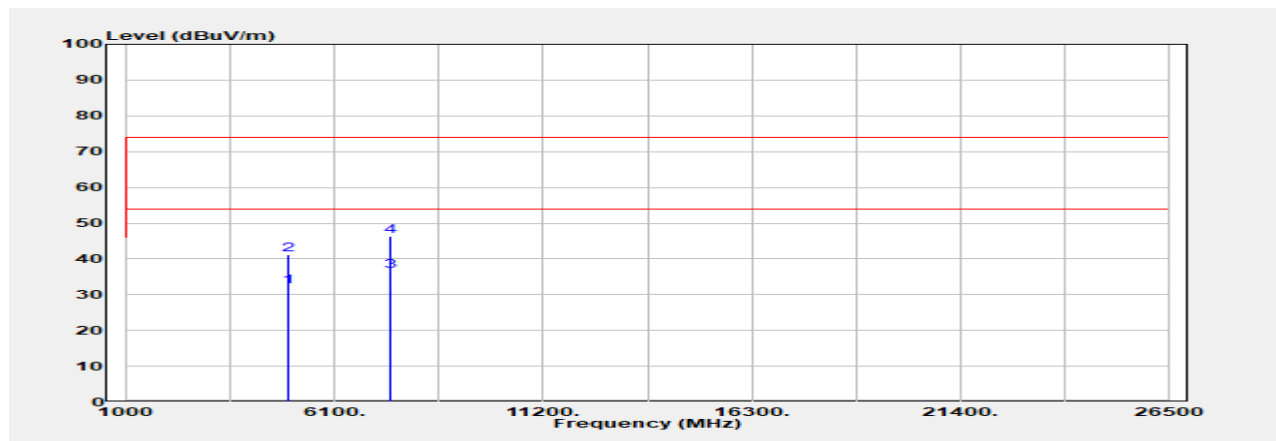
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	26.93	5.27	32.20	54.00	-21.80
4960.000	Peak	35.83	5.27	41.11	74.00	-32.89
7440.000	Average	25.42	11.25	36.67	54.00	-17.33
7440.000	Peak	35.17	11.25	46.42	74.00	-27.58

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Test Site :SAC G Chamber

Operation Mode :BLE 1M

Test Date :2024-04-30

Test Frequency :2480 MHz

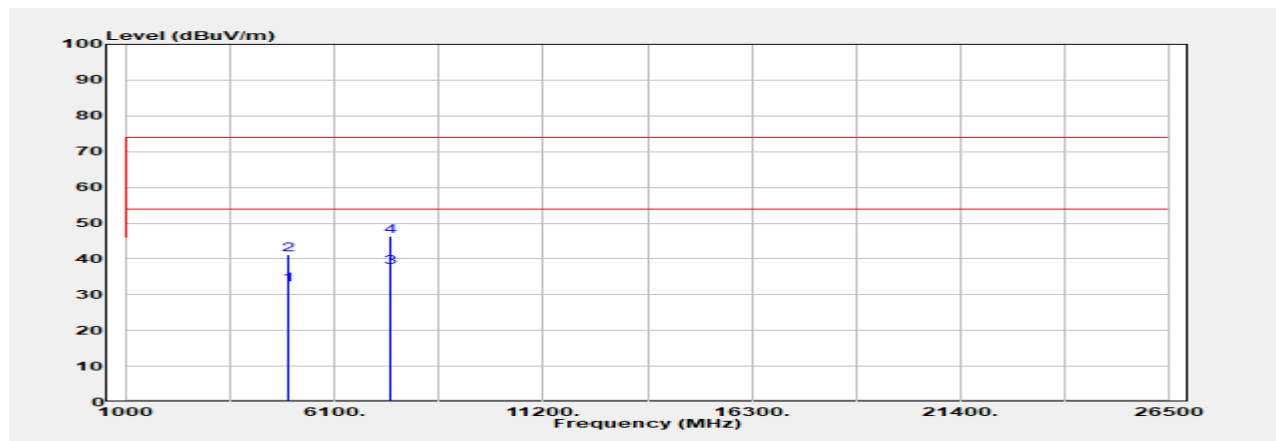
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.49	5.27	32.76	54.00	-21.24
4960.000	Peak	36.04	5.27	41.31	74.00	-32.69
7440.000	Average	26.54	11.25	37.79	54.00	-16.21
7440.000	Peak	35.18	11.25	46.43	74.00	-27.57

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2402 MHz

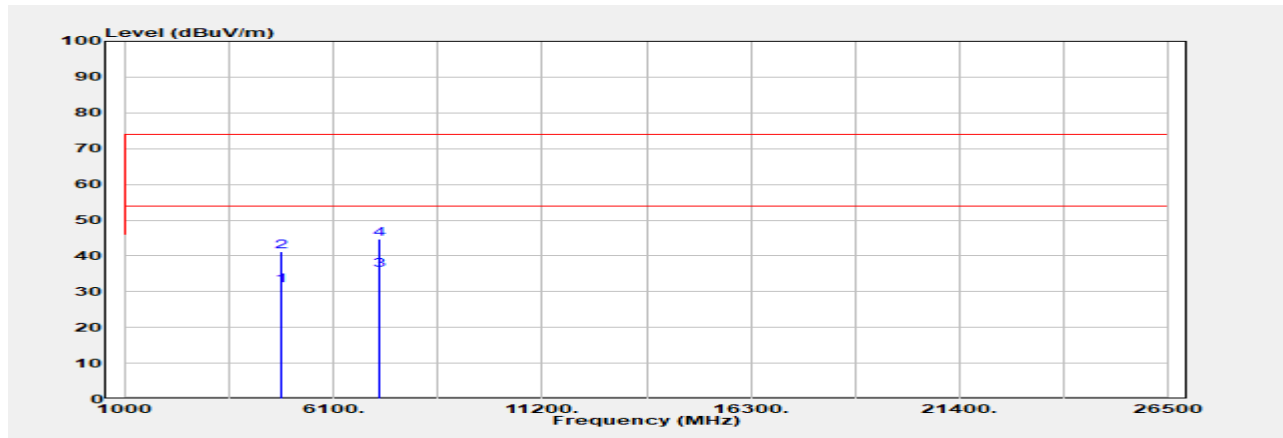
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	27.10	4.68	31.78	54.00	-22.22
4804.000	Peak	36.63	4.68	41.31	74.00	-32.69
7206.000	Average	26.17	9.79	35.96	54.00	-18.04
7206.000	Peak	34.94	9.79	44.73	74.00	-29.27

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2402 MHz

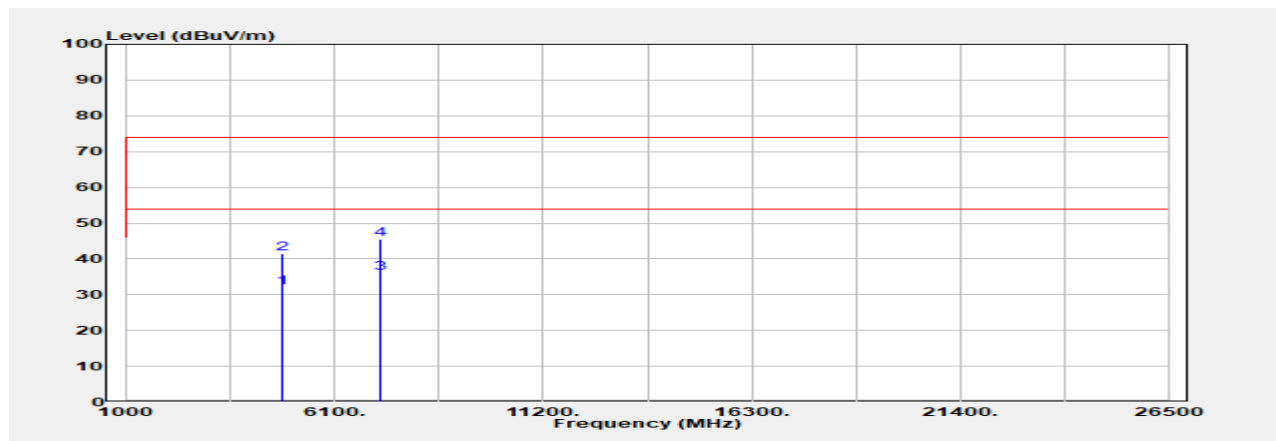
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	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	27.39	4.68	32.07	54.00	-21.93
4804.000	Peak	36.82	4.68	41.50	74.00	-32.50
7206.000	Average	26.22	9.79	36.01	54.00	-17.99
7206.000	Peak	35.84	9.79	45.63	74.00	-28.37

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2442 MHz

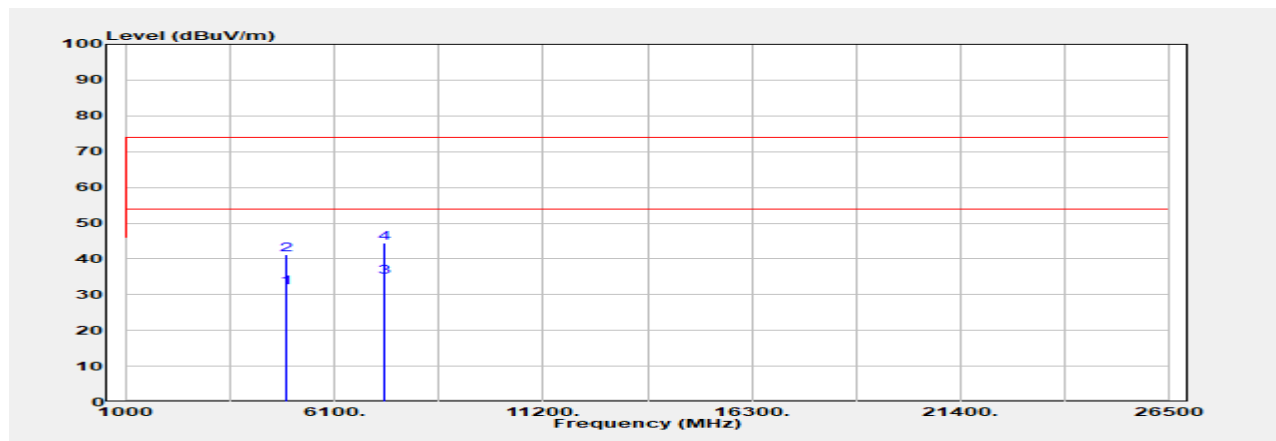
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	26.87	5.12	31.99	54.00	-22.01
4884.000	Peak	35.98	5.12	41.10	74.00	-32.90
7326.000	Average	25.62	9.34	34.96	54.00	-19.04
7326.000	Peak	35.09	9.34	44.42	74.00	-29.58

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Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2442 MHz

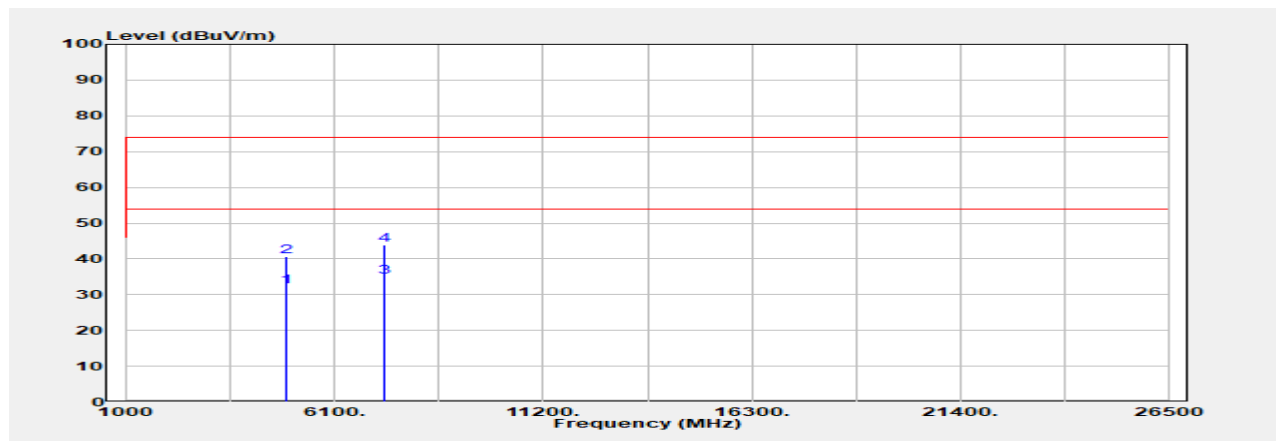
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4884.000	Average	27.26	5.12	32.38	54.00	-21.62
4884.000	Peak	35.62	5.12	40.74	74.00	-33.26
7326.000	Average	25.63	9.34	34.97	54.00	-19.03
7326.000	Peak	34.61	9.34	43.95	74.00	-30.05

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2480 MHz

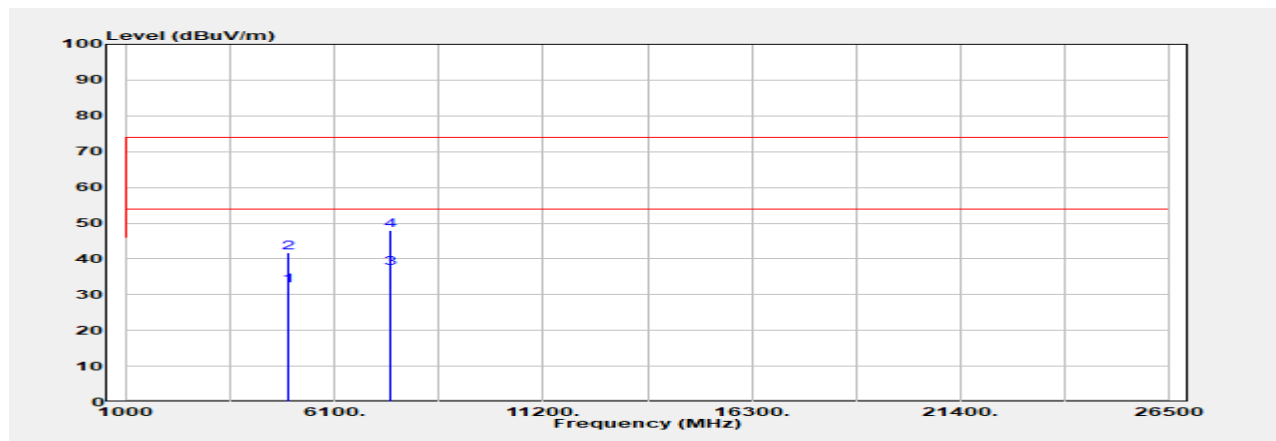
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.33	5.27	32.60	54.00	-21.40
4960.000	Peak	36.59	5.27	41.86	74.00	-32.14
7440.000	Average	26.27	11.25	37.52	54.00	-16.48
7440.000	Peak	36.70	11.25	47.95	74.00	-26.05

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Report Number :TERF2404000925E2

Test Site :SAC G Chamber

Operation Mode :BLE 2M

Test Date :2024-04-30

Test Frequency :2480 MHz

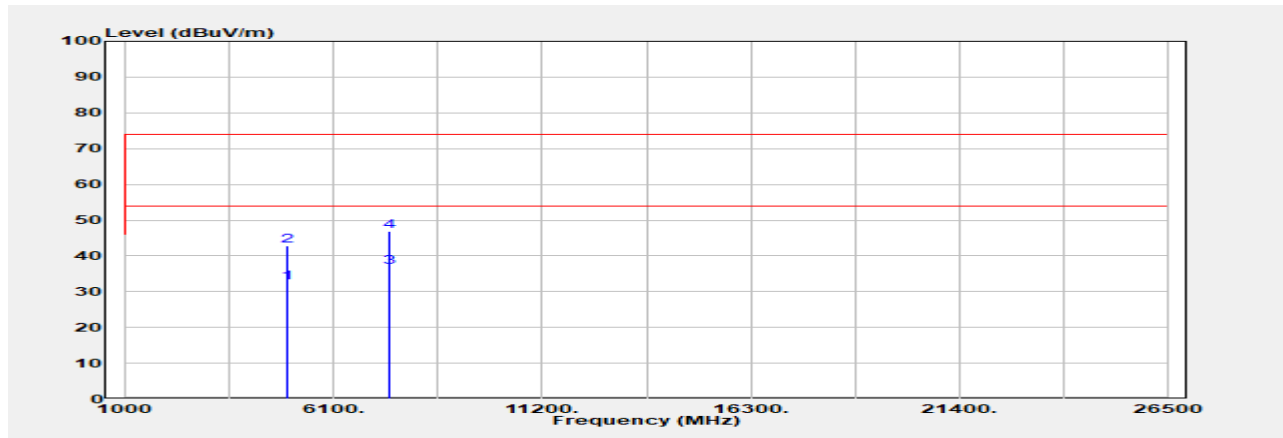
Temp./Humi. :20.8°C/58%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AVG	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Average	27.19	5.27	32.47	54.00	-21.53
4960.000	Peak	37.57	5.27	42.84	74.00	-31.16
7440.000	Average	25.50	11.25	36.75	54.00	-17.25
7440.000	Peak	35.56	11.25	46.81	74.00	-27.19

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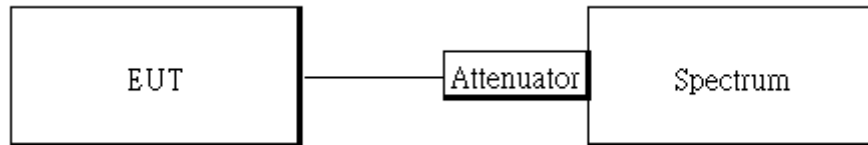
12 POWER SPECTRAL DENSITY

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	-9.84	8	PASS
2442	-9.79	8	PASS
2480	-9.35	8	PASS

***Note:**

1.cable loss as 10.4dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-13.17	8	PASS
2442	-13.18	8	PASS
2480	-12.72	8	PASS

***Note:**

1.cable loss as 10.4dB that offsets in the spectrum

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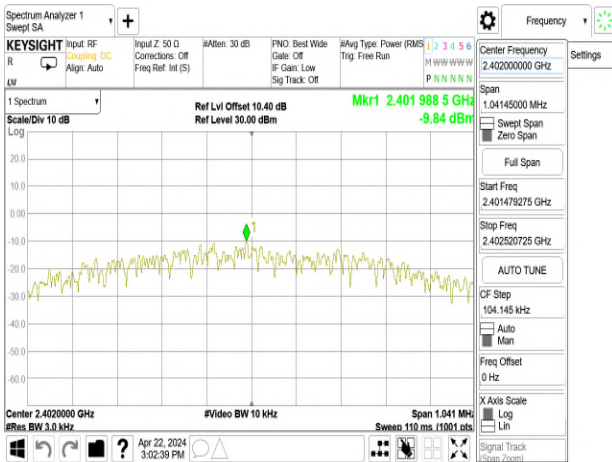
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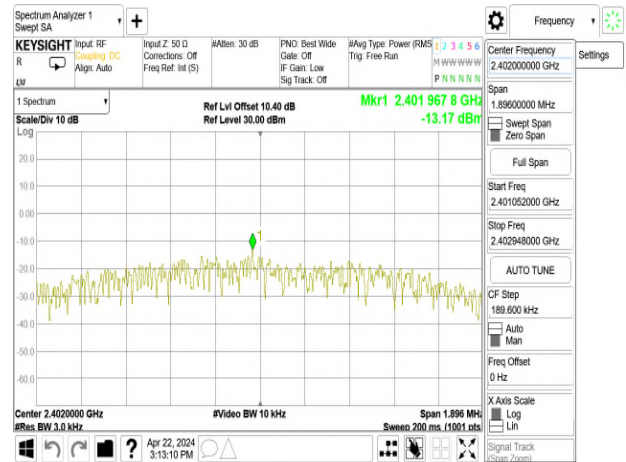
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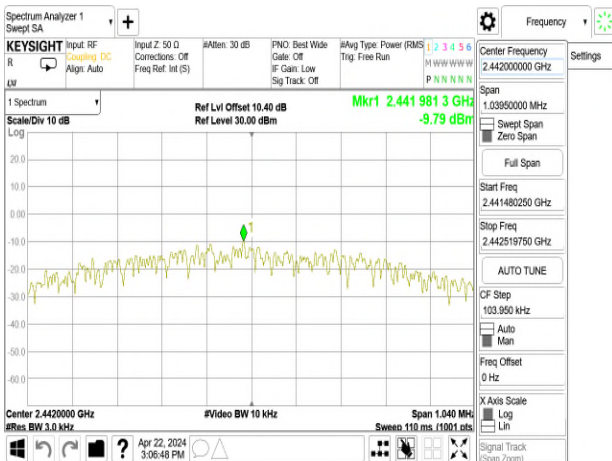
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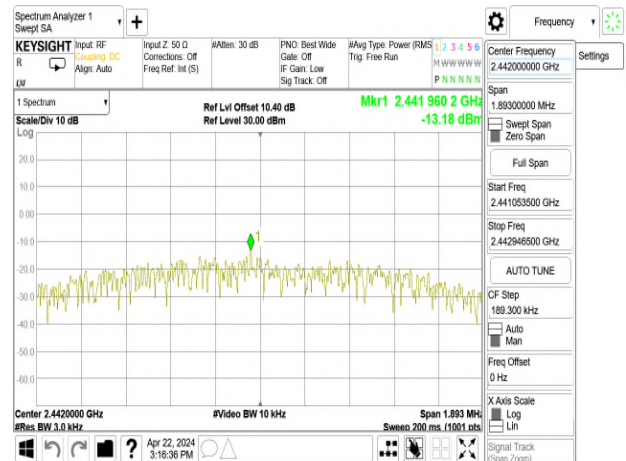
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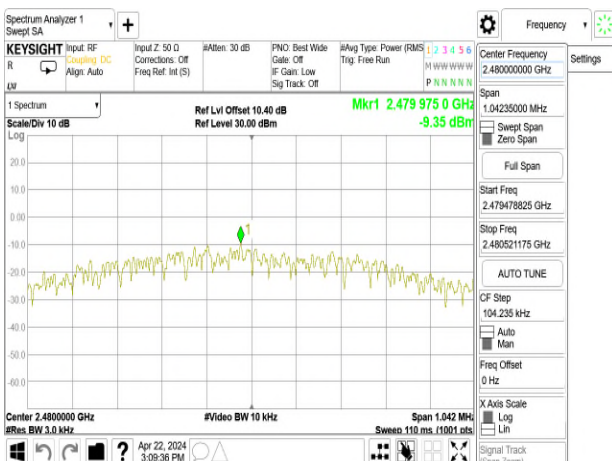
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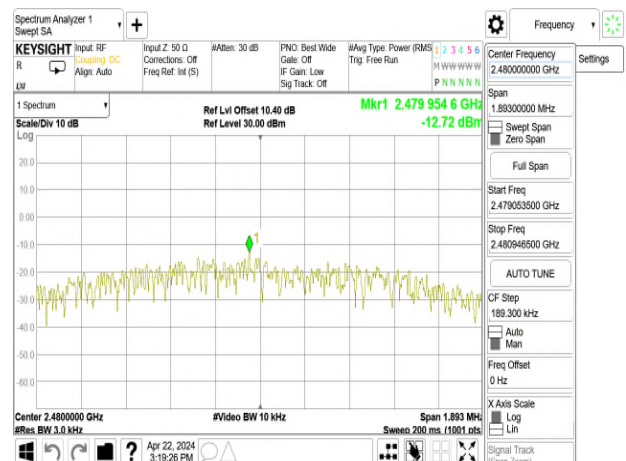
PSD_BLE 2M_MidCH20-2442MHz



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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