

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

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

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

Product Name: Communication Module

Brand Name: muRata

Model No.: For FCC:
LBEE5XV2EA, LBEE5XV2EB
For ISCED:
LBEE5XV2EA_SANT, LBEE5XV2EA_DANT,
LBEE5XV2EB_SANT, LBEE5XV2EB_DANT

Model Difference: Refer to section 1.8

Report Number: TERF2211002257ER

FCC ID VPYLBEE5XV2EA

IC: 772C-LBEE5XV2EA

Date of EUT Received: November 08, 2022

Date of Test: November 29, 2022 ~ March 09, 2023

Issue Date: June 13, 2023

CHUN-CHIEH, CHEN

Approved By _____

CHUN-CHIEH, CHEN

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, ISCED 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
TERF2211002257ER	00	Original	May 04, 2023	Violetta Tang	
TERF2211002257ER	01	Remove HMN information from page 7	June 02, 2023	Violetta Tang	
TERF2211002257ER	02	Correct firmware information on page 4	June 13, 2023	Violetta Tang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Communication Module
Brand Name:	muRata
Model No.:	For FCC: LBEE5XV2EA, LBEE5XV2EB For ISED: LBEE5XV2EA_SANT, LBEE5XV2EA_DANT, LBEE5XV2EB_SANT, LBEE5XV2EB_DANT
Model Difference:	Refer to section 1.8
Hardware Version:	1.0
Firmware Version:	1.1.1.1 1.1.2.1 1.1.1.2 1.1.2.2
EUT Series No.:	ANT0: SA2022019000004030 BT_ANT: SA2022019000001046
Power Supply:	3.3Vdc, 1.8Vdc
Test Software (Name/Version)	Broadcom BlueTool / 1.9.7.9

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	ANT0: BLE 1M: 10.38 dBm BLE 2M: 10.70 dBm BT_ANT: BLE 1M: 10.47 dBm BLE 2M: 10.80 dBm

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1.3 Antenna Designation

ANT0

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	Molex	146153	2400~2500	3.2
	Molex	219611	2400~2500	2.67
	Unictron	WT32D1-KX	2400~2500	3
	Inventek	W24P-U	2400~2500	3.2
Monopole	Murata	Type2EA_Antenna	2400~2500	2.9

BT_ANT

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	Molex	146153	2400~2500	3.2
	Molex	219611	2400~2500	2.67
	Unictron	WT32D1-KX	2400~2500	3
	Inventek	W24P-U	2400~2500	3.2

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 2 Feb. 2017
RSS-Gen, Issue 5 April 2018
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 in- dication where measurements occurred in specific test site and address.				

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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1.8 Model Variants

The LBEE5XV2EA_SANT and LBEE5XV2EA_DANT are electrically identical.

Model For ISED	Model For FCC	Chip on C101	RF functions
LBEE5XV2EA_SANT	LBEE5XV2EA	CYW55573	2x2 WLAN2.4GHz,5GHz, 6GHz +BT/ BLE
LBEE5XV2EA_DANT			

The LBEE5XV2EB_SANT and LBEE5XV2EB_DANT are electrically identical.

Model For ISED	Model For FCC	Chip on C101	RF functions
LBEE5XV2EB_SANT	LBEE5XV2EB	CYW55572	2x2 WLAN2.4GHz,5GHz +BT/ BLE
LBEE5XV2EB_DANT			

In addition, the differences of firmware versions are

Model	Firmware versions	Antenna connector(s)	WLAN	BT	BLE
LBEE5XV2EA_DANT	1.1.2.1	3 (ANT0, ANT1, BT_ANT)	ANT0, ANT1	BT_ANT	BT_ANT
LBEE5XV2EB_DANT	1.1.2.2				
LBEE5XV2EA_SANT	1.1.1.1	2 (ANT0, ANT1)	ANT0, ANT1	ANT0	ANT0
LBEE5XV2EB_SANT	1.1.1.2				

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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 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50 μ H/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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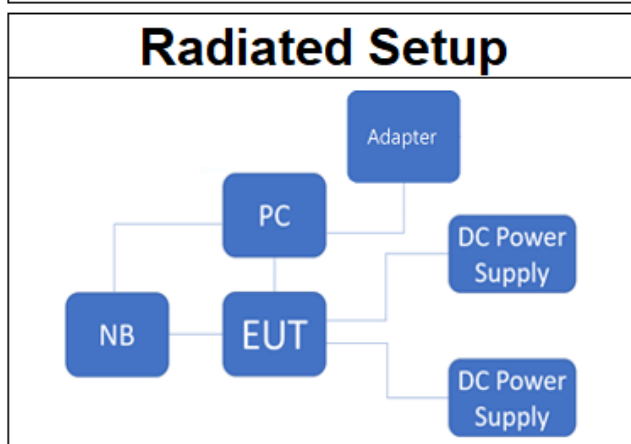
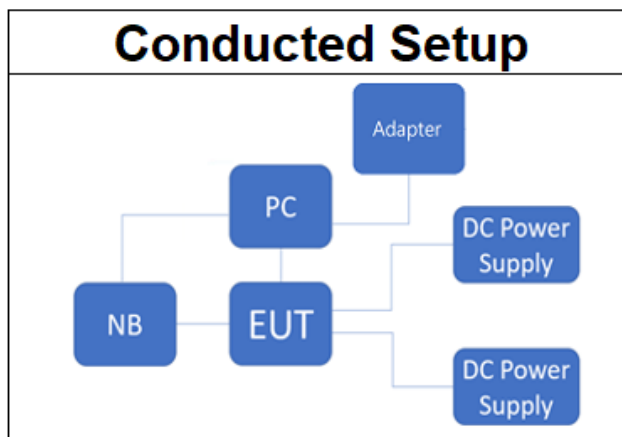
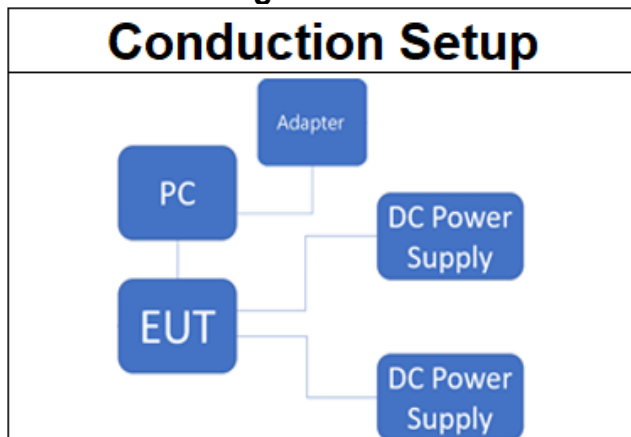
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PC	GIGABYTE	GB-BX17H-4500	N/A	N/A	N/A
Adapter	FSP GROUP INC.	FSP065-REB	N/A	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PC	GIGABYTE	GB-BX17H-4500	N/A	N/A	N/A
Adapter	FSP GROUP INC.	FSP065-REB	N/A	N/A	N/A
Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PC	GIGABYTE	GB-BX17H-4500	N/A	N/A	N/A
Adapter	FSP GROUP INC.	FSP065-REB	N/A	N/A	N/A
Notebook	Lenovo	T440P	PC-06L5W6	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) §15.205 §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

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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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.

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

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
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	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated 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
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023
LISN	SCHWARZBECK	NSLK 8127	01041	10/25/2022	10/24/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
DC Power Supply	Agilent	E3640A	MY40005907	10/07/2022	10/06/2023
DC Power Supply	Agilent	E3640A	KR93300208	09/08/2022	09/07/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	2132007	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911391	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911392	09/21/2022	09/20/2023
DC Power Supply	Agilent	E3640A	MY40005907	10/07/2022	10/06/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/13/2022	09/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2022	02/23/2023
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	02/25/2022	02/24/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
EXA Spectrum	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
DC Power Supply	Agilent	E3640A	MY40005907	10/07/2022	10/06/2023
DC Power Supply	Agilent	E3640A	KR93300208	09/08/2022	09/07/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
Bandreject Filter	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-	RX Cable below 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-	RX Cable below 30M	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M	08/31/2022	08/30/2023
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023

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

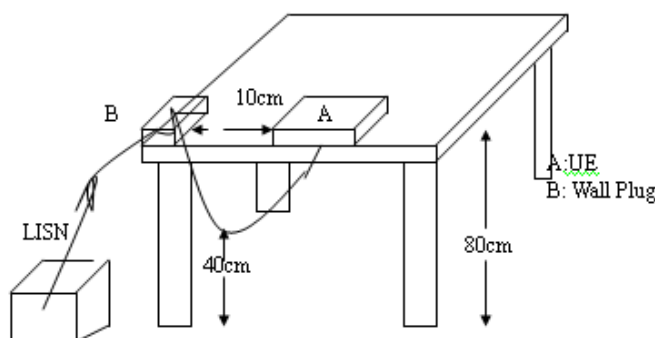
Note

- 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



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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AC POWER LINE CONDUCTED EMISSION TEST DATA

ANT0

Report Number : TERF2211002257ER

Test Site : Conduction 1

Test Mode : Operation (BLE)

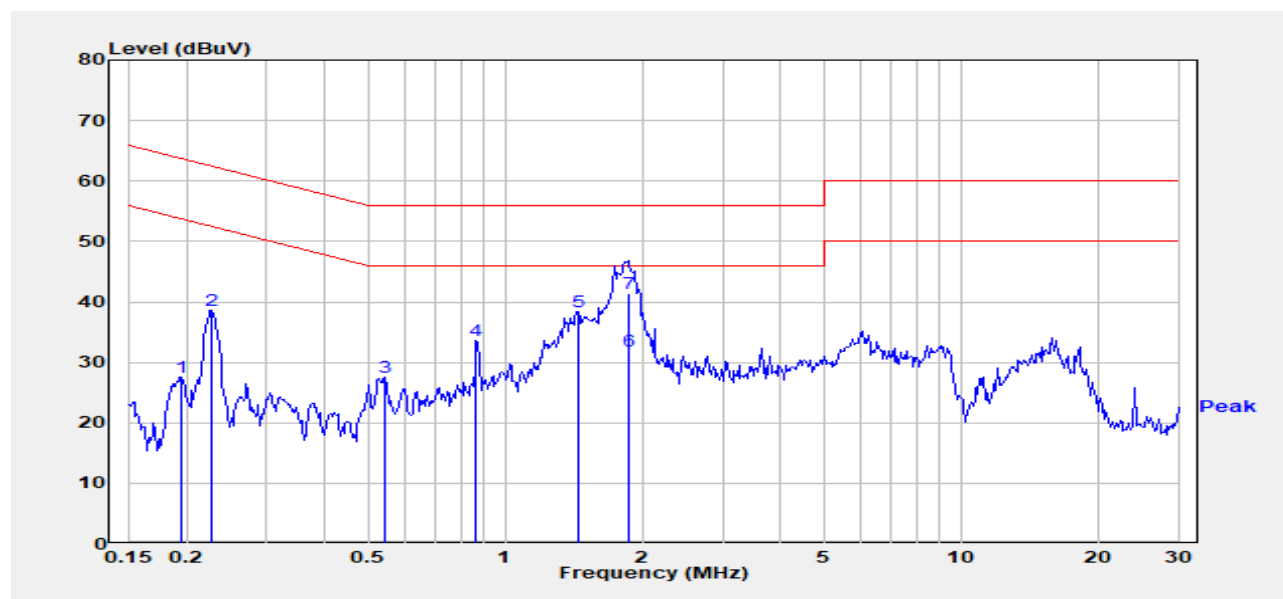
Test Date : 2023-03-02

Power : 120V/60Hz

Temp./Humi. : 23.8/52

Probe : L

Engineer : Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.195	Peak	17.23	10.25	27.48	63.83	-36.35
0.227	Peak	28.29	10.25	38.54	62.56	-24.01
0.545	Peak	17.19	10.27	27.46	56.00	-28.54
0.864	Peak	23.25	10.34	33.59	56.00	-22.41
1.445	Peak	27.66	10.74	38.40	56.00	-17.60
1.862	Average	20.93	11.01	31.94	46.00	-14.06
1.862	QP	30.51	11.01	41.52	56.00	-14.48

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Report Number :TERF2211002257ER

Test Mode :Operation (BLE)

Power :120V/60Hz

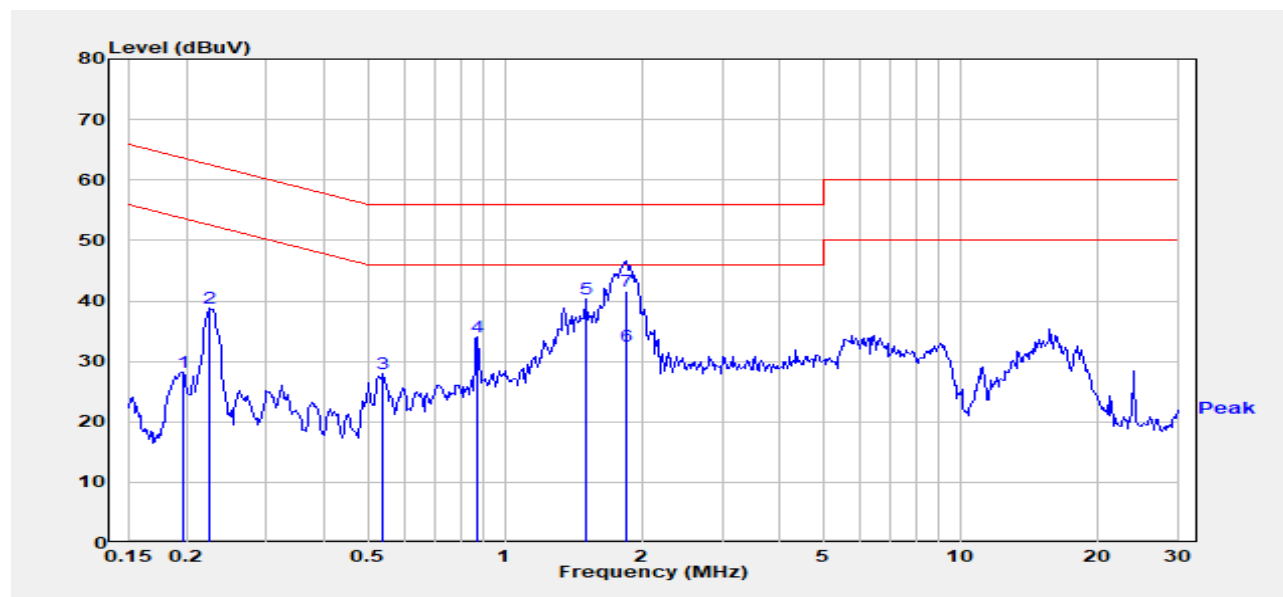
Probe :N

Test Site :Conduction 1

Test Date :2023-03-02

Temp./Humi. :23.8/52

Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.196	Peak	18.02	10.25	28.27	63.77	-35.50
0.225	Peak	28.58	10.25	38.83	62.62	-23.79
0.541	Peak	17.61	10.26	27.87	56.00	-28.13
0.870	Peak	23.71	10.34	34.05	56.00	-21.95
1.502	Peak	29.48	10.78	40.26	56.00	-15.74
1.847	Average	21.46	11.00	32.46	46.00	-13.54
1.847	QP	30.58	11.00	41.58	56.00	-14.42

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BT_ANT

Report Number :TERF2211002257ER

Test Mode :Operation (BLE)

Power :120V/60Hz

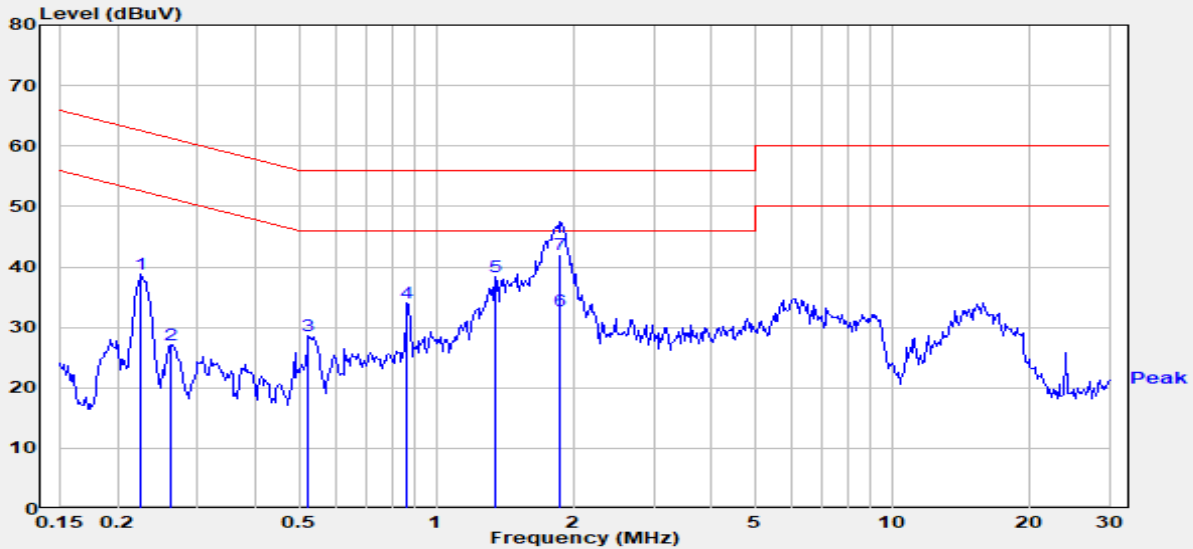
Probe :L

Test Site :Conduction 1

Test Date :2023-03-02

Temp./Humi. :23.8/52

Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.225	Peak	28.55	10.25	38.80	62.62	-23.82
0.261	Peak	16.91	10.25	27.16	61.41	-34.25
0.524	Peak	18.30	10.26	28.56	56.00	-27.44
0.864	Peak	23.73	10.34	34.06	56.00	-21.94
1.349	Peak	27.72	10.67	38.39	56.00	-17.61
1.876	Average	21.69	11.01	32.70	46.00	-13.30
1.876	QP	31.02	11.01	42.03	56.00	-13.97

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Report Number :TERF2211002257ER

Test Mode :Operation (BLE)

Power :120V/60Hz

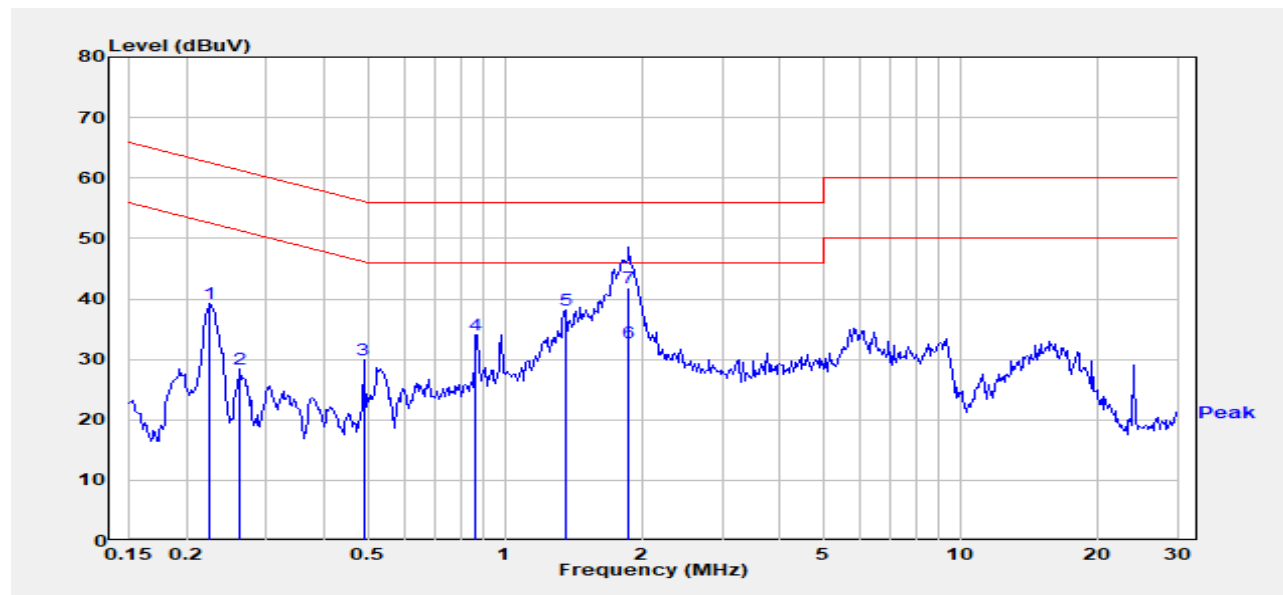
Probe :N

Test Site :Conduction 1

Test Date :2023-03-02

Temp./Humi. :23.8/52

Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.225	Peak	28.96	10.25	39.21	62.62	-23.41
0.263	Peak	18.17	10.25	28.42	61.34	-32.92
0.489	Peak	19.57	10.25	29.82	56.18	-26.36
0.864	Peak	23.74	10.34	34.08	56.00	-21.92
1.359	Peak	27.41	10.68	38.09	56.00	-17.91
1.876	Average	21.77	11.01	32.78	46.00	-13.22
1.876	QP	30.92	11.01	41.93	56.00	-14.07

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

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.

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.

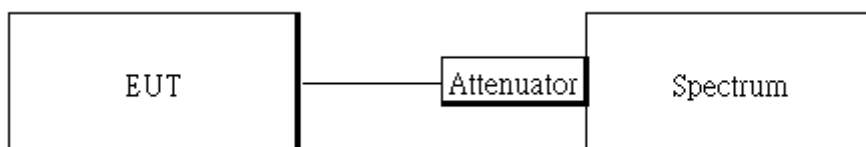
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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.

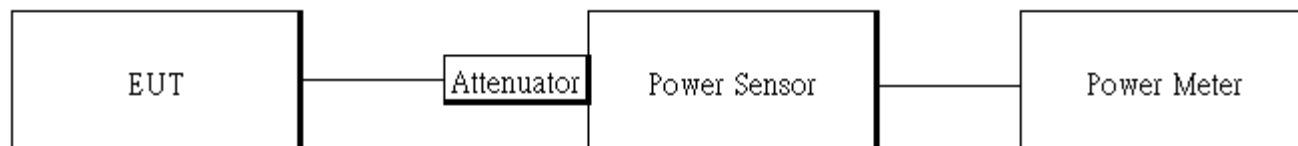
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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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:

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	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.20	1.99	2.53	3.00
BLE 2M	31.20	5.06	5.13	6.00

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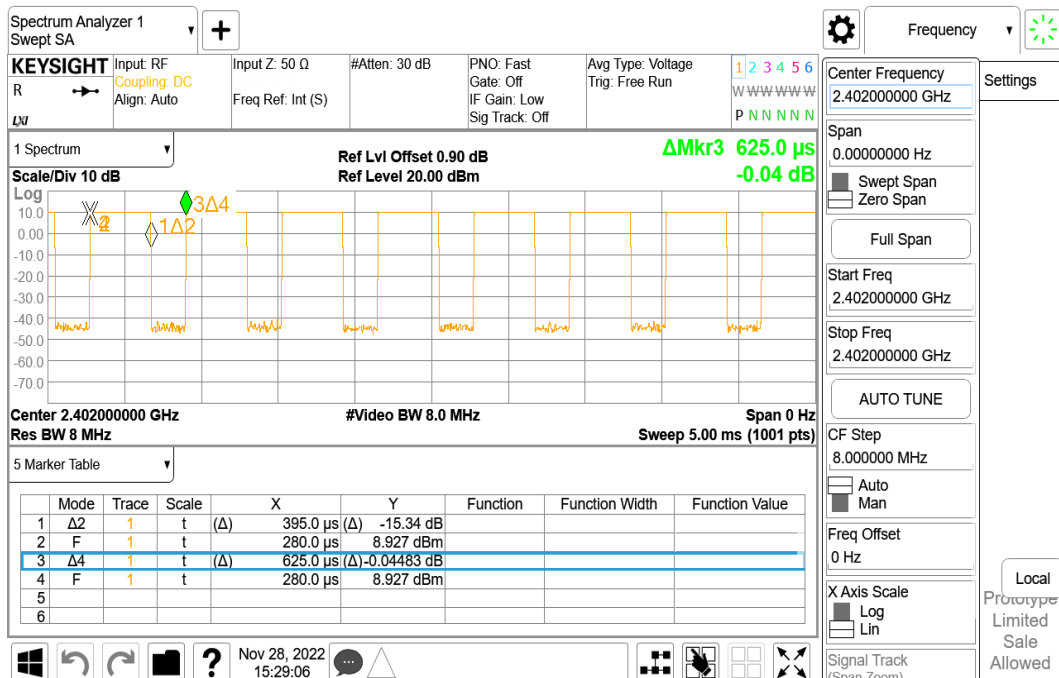
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	62.40	2.05	2.56	3.00
BLE 2M	31.20	5.06	5.13	6.00

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BLE_1M_LowCH00-2402MHz



BLE_2M_LowCH00-2402 MHz

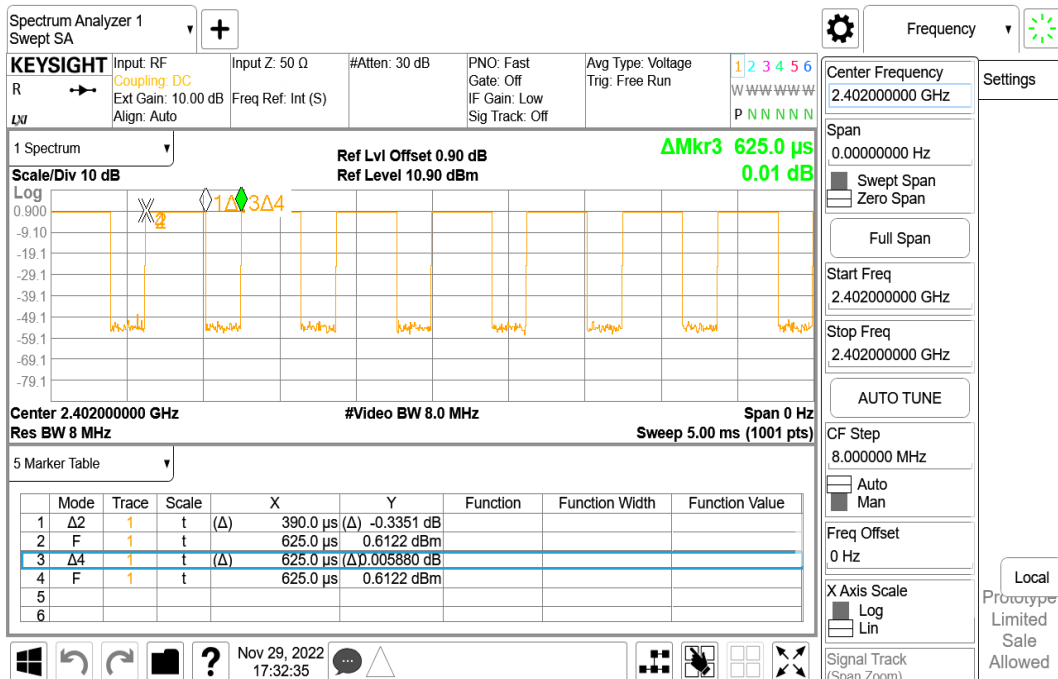


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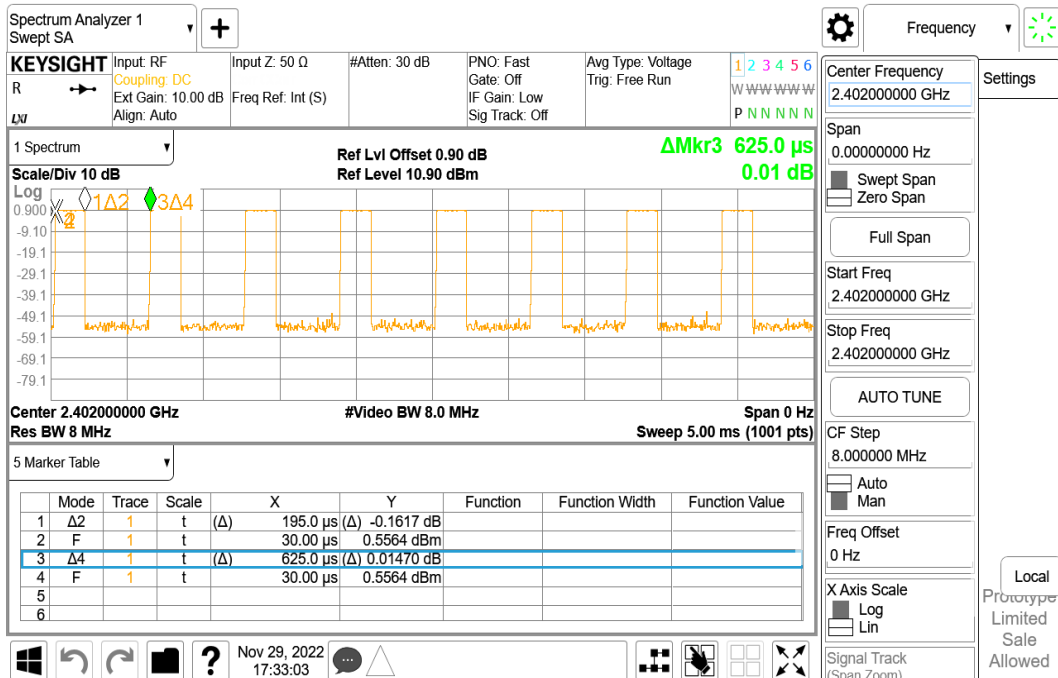
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BLE_1M_LowCH00-2402MHz



BLE_2M_LowCH00-2402MHz



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8.5 Output Power:

8.5.1 Peak & Avg

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BLE 1M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	10.38	30
Mid	2442	default	10.23	30
High	2480	default	9.80	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	10.20	30
Mid	2442	default	10.03	30
High	2480	default	9.47	30

**Note: Measured by power meter, cable loss 0.9 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.*

BLE 2M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	10.70	30
Mid	2442	default	10.56	30
High	2480	default	10.13	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	10.32	30
Mid	2442	default	10.21	30
High	2480	default	9.61	30

**Note: Measured by power meter, cable loss 0.9 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.*

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BLE 1M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	10.34	30
Mid	2442	default	10.41	30
High	2480	default	10.47	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	10.14	30
Mid	2442	default	10.09	30
High	2480	default	10.18	30

**Note: Measured by power meter, cable loss 0.9 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.*

BLE 2M mode:

CH	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	10.52	30
Mid	2442	default	10.73	30
High	2480	default	10.80	30
CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	10.33	30
Mid	2442	default	10.44	30
High	2480	default	10.38	30

**Note: Measured by power meter, cable loss 0.9 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.*

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8.5.2 EIRP

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EIRP BLE 1M mode

CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	10.20	3.20	13.40	4W= 36 dBm
Mid	2442	default	10.03	3.20	13.23	4W= 36 dBm
High	2480	default	9.47	3.20	12.67	4W= 36 dBm

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

EIRP BLE 2M mode

CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	10.32	3.20	13.52	4W= 36 dBm
Mid	2442	default	10.21	3.20	13.41	4W= 36 dBm
High	2480	default	9.61	3.20	12.81	4W= 36 dBm

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

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EIRP BLE 1M mode

CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	10.14	3.20	13.34	4W= 36 dBm
Mid	2442	default	10.09	3.20	13.29	4W= 36 dBm
High	2480	default	10.18	3.20	13.38	4W= 36 dBm

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

EIRP BLE 2M mode

CH	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
Low	2402	default	10.33	3.20	13.53	4W= 36 dBm
Mid	2442	default	10.44	3.20	13.64	4W= 36 dBm
High	2480	default	10.38	3.20	13.58	4W= 36 dBm

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

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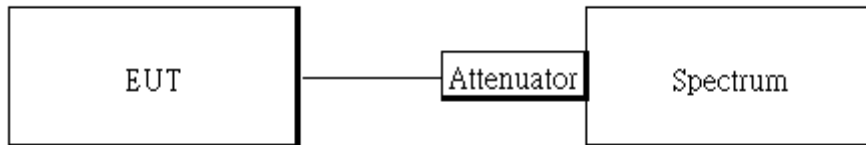
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9 EMISSION BANDWIDTH MEASUREMENT

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 FCC 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 ISSED 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% and -6dB Bandwidth ,
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% and -6dB.
4. Repeat above procedures until all test default channel is completed.

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9.4 Measurement Result:

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BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7006	≥ 0.5	PASS
2442	0.7005	≥ 0.5	PASS
2480	0.7014	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.271	≥ 0.5	PASS
2442	1.272	≥ 0.5	PASS
2480	1.271	≥ 0.5	PASS

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BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6931	≥ 0.5	PASS
2442	0.6902	≥ 0.5	PASS
2480	0.6897	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.269	≥ 0.5	PASS
2442	1.271	≥ 0.5	PASS
2480	1.271	≥ 0.5	PASS

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BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0429
2442	1.0433
2480	1.0433

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0373
2442	2.0373
2480	2.0378

BT_ANT

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0414
2442	1.0418
2480	1.0416

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0399
2442	2.0397
2480	2.0392

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OBW_BLE 1M_LowCH00-2402MHz



OBW_BLE 2M_LowCH00-2402MHz



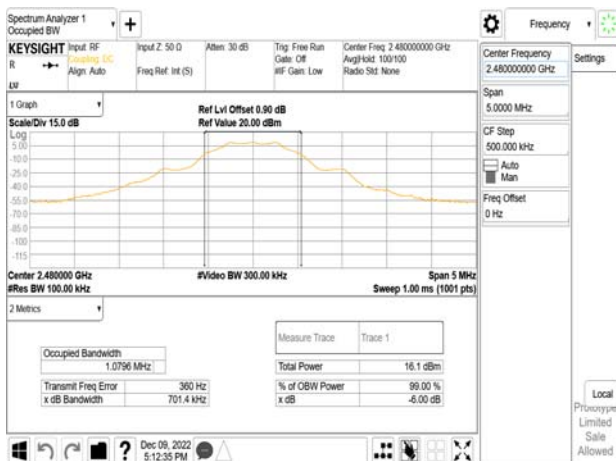
OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz



OBW_BLE 2M_HighCH39-2480MHz



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OBW_BLE 1M_LowCH00-2402MHz



OBW_BLE 2M_LowCH00-2402MHz



OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz



OBW_BLE 2M_HighCH39-2480MHz



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IC OBW_BLE 1M_LowCH00-2402MHz



IC OBW_BLE 2M_LowCH00-2402MHz



IC OBW_BLE 1M_MidCH20-2442MHz



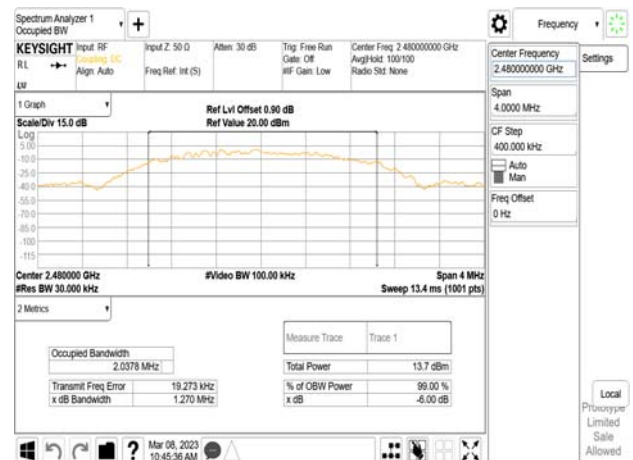
IC OBW_BLE 2M_MidCH20-2442MHz



IC OBW_BLE 1M_HighCH39-2480MHz



IC OBW_BLE 2M_HighCH39-2480MHz



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IC OBW_BLE 1M_LowCH00-2402MHz



IC OBW_BLE 2M_LowCH00-2402MHz



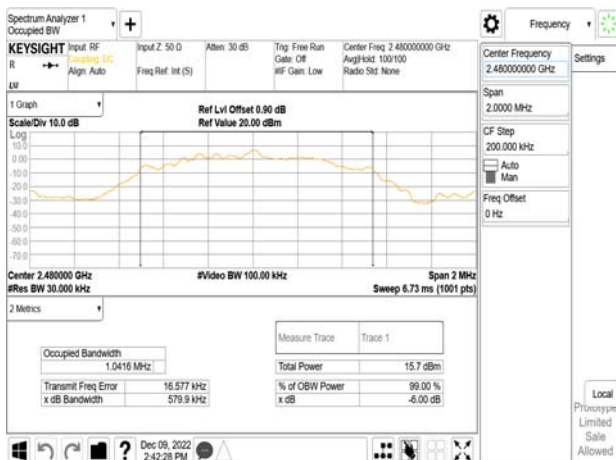
IC OBW_BLE 1M_MidCH20-2442MHz



IC OBW_BLE 2M_MidCH20-2442MHz



IC OBW_BLE 1M_HighCH39-2480MHz



IC OBW_BLE 2M_HighCH39-2480MHz



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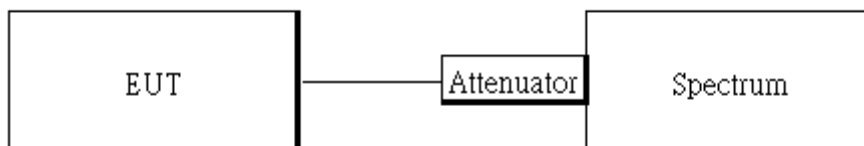
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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



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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.
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

ANT0

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	9.43	-10.57
2442	9.18	-10.82
2480	8.96	-11.04

NOTE: cable loss as 0.9dB that offsets in the spectrum

NOTE: 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	7.61	-12.39
2442	7.37	-12.63
2480	7.36	-12.64

NOTE: cable loss as 0.9dB that offsets in the spectrum

NOTE: Refer to next page for plots.

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BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	9.81	-10.19
2442	9.77	-10.23
2480	9.12	-10.88

NOTE: cable loss as 0.9dB that offsets in the spectrum

NOTE: 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	8.87	-11.13
2442	8.74	-11.26
2480	8.15	-11.85

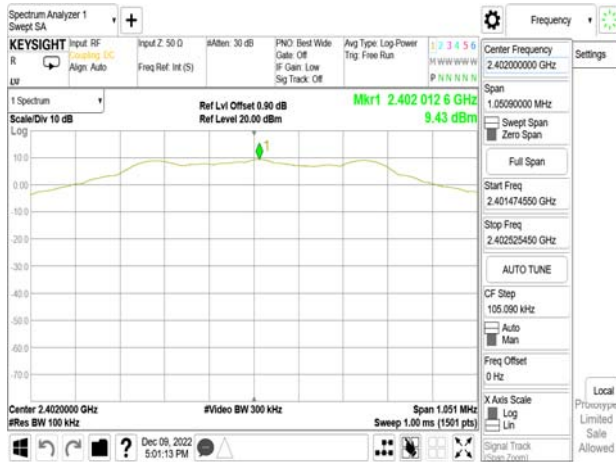
NOTE: cable loss as 0.9dB that offsets in the spectrum

NOTE: Refer to next page for plots.

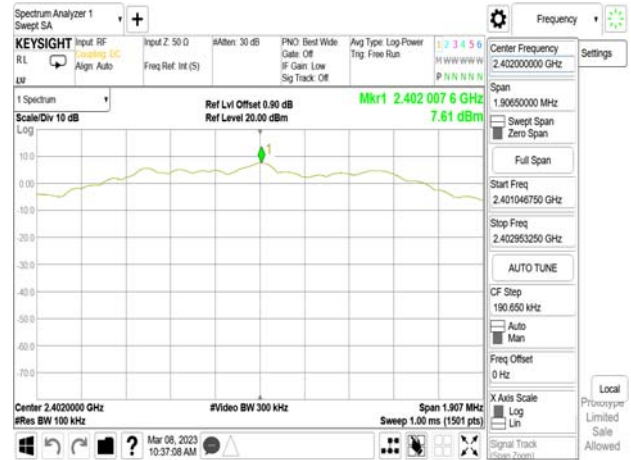
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Reference Level_BLE 1M_LowCH00-2402MHz



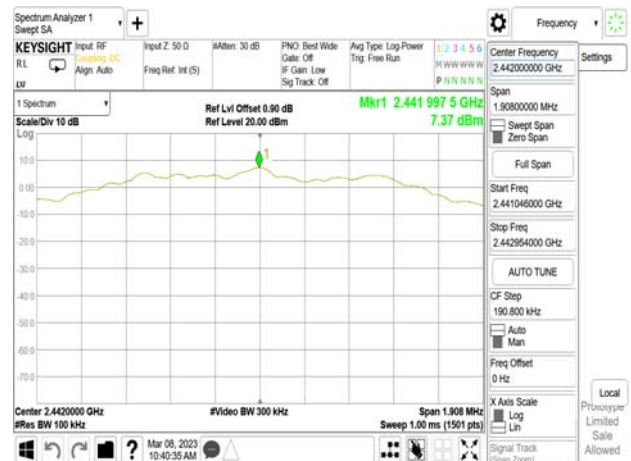
Reference Level_BLE 2M_LowCH00-2402MHz



Reference Level_BLE 1M_MidCH20-2442MHz



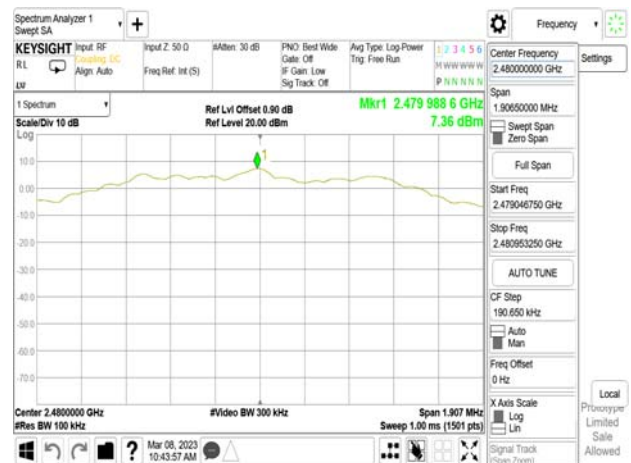
Reference Level_BLE 2M_MidCH20-2442MHz



Reference Level_BLE 1M_HighCH39-2480MHz



Reference Level_BLE 2M_HighCH39-2480MHz



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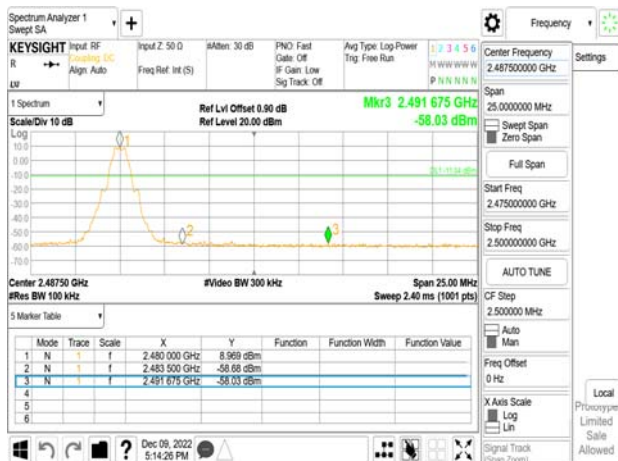
Band Edge_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 2M_HighCH39-2480MHz



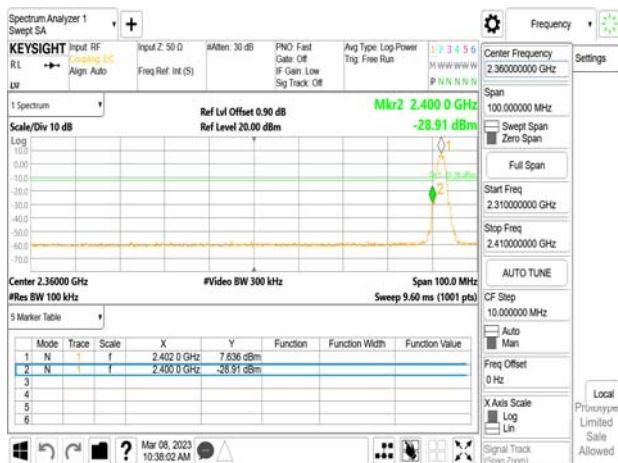
Band Edge_BLE 1M_HighCH39-2480MHz



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 2M_MidCH20-2442MHz



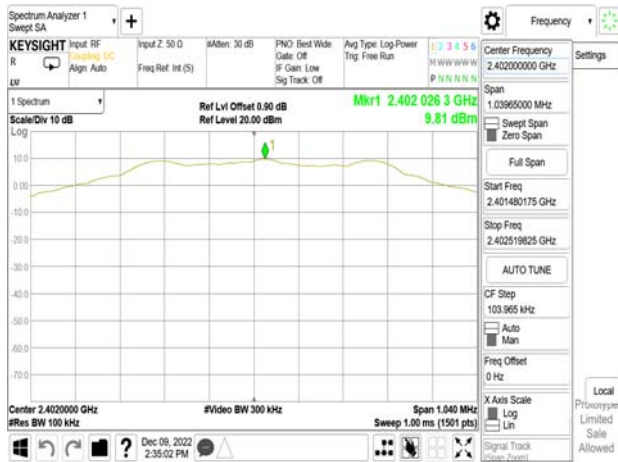
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Reference Level_BLE 1M_LowCH00-2402MHz



Reference Level_BLE 2M_LowCH00-2402MHz



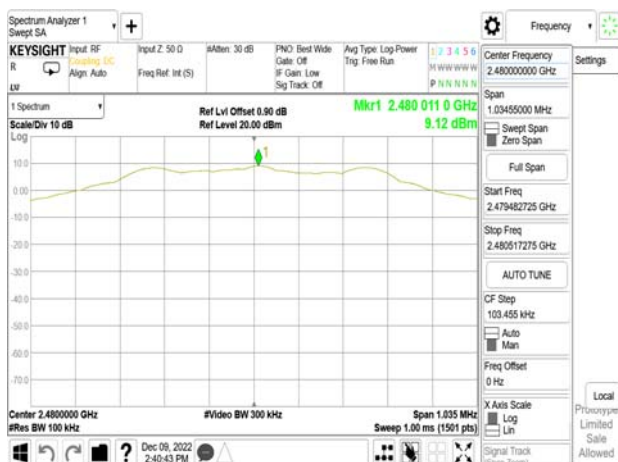
Reference Level_BLE 1M_MidCH20-2442MHz



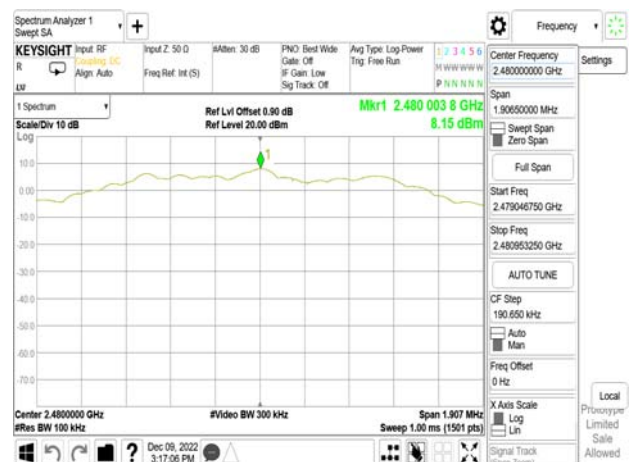
Reference Level_BLE 2M_MidCH20-2442MHz



Reference Level_BLE 1M_HighCH39-2480MHz



Reference Level_BLE 2M_HighCH39-2480MHz



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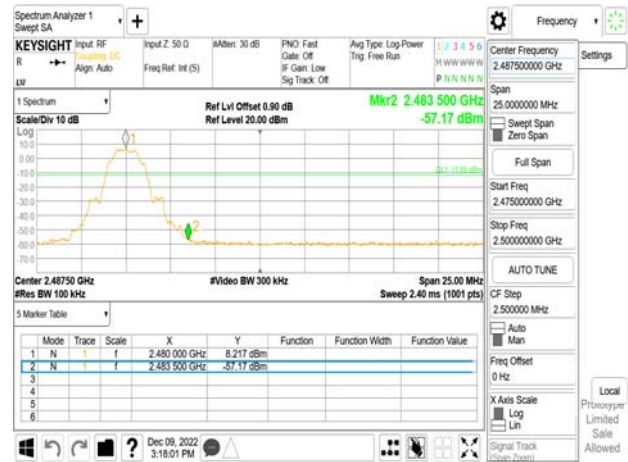
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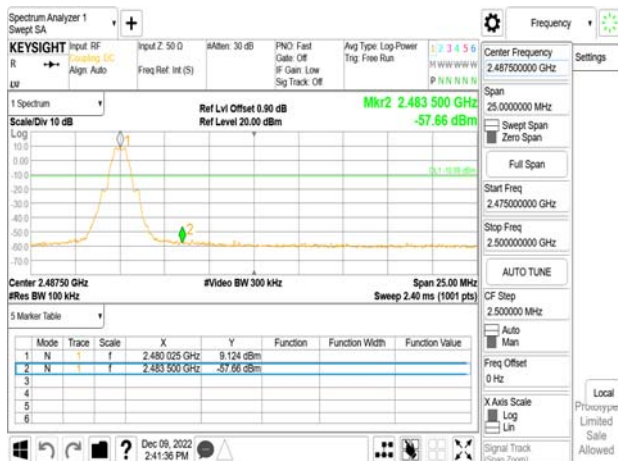
Band Edge_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 2M_HighCH39-2480MHz



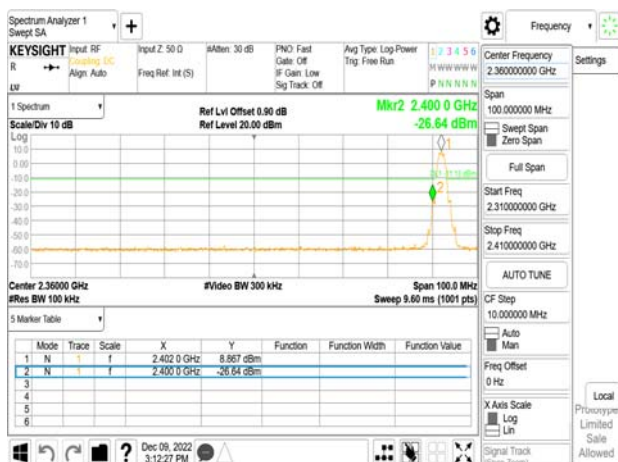
Band Edge_BLE 1M_HighCH39-2480MHz



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

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.

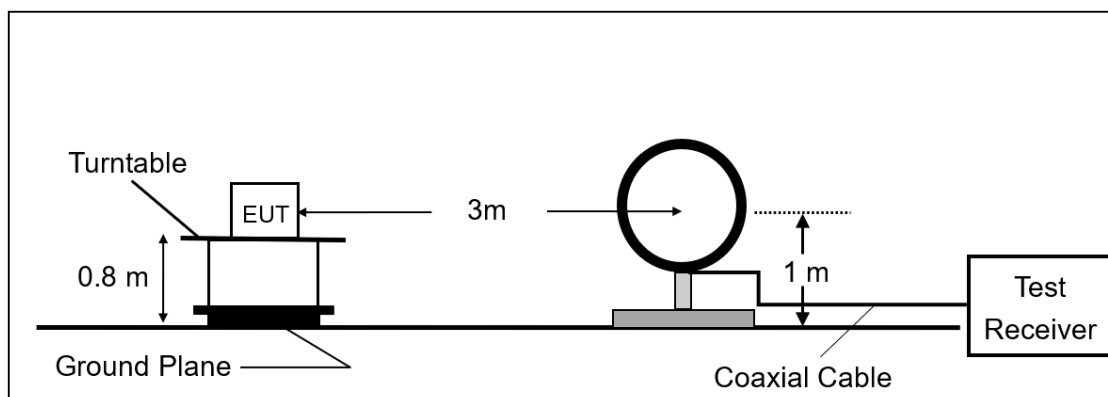
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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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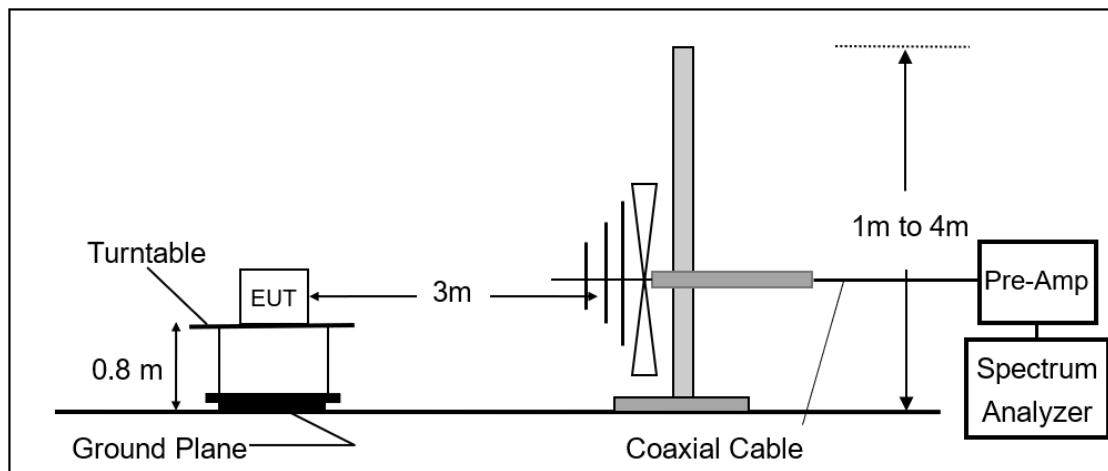
t (886-2) 2299-3279

f (886-2) 2298-0488

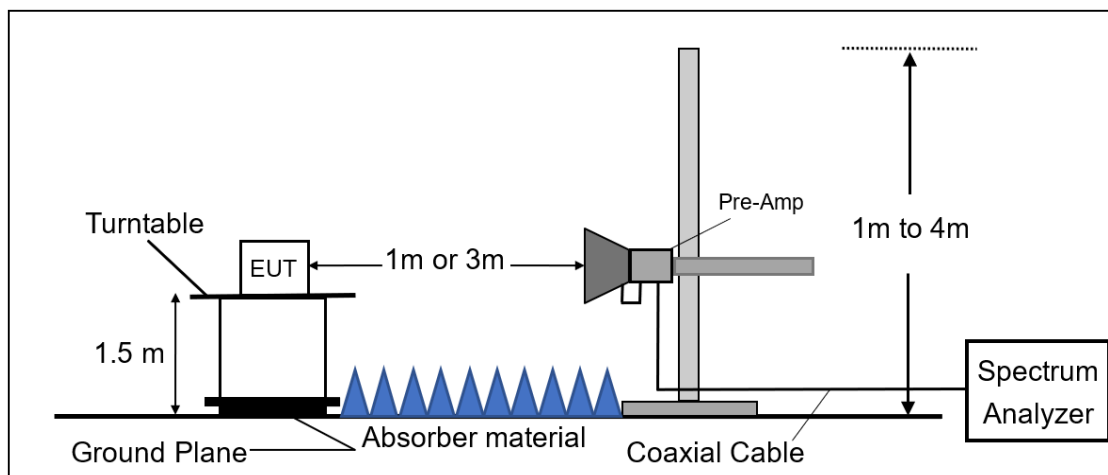
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(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 $20 \cdot \log(uV/m)$

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

Factor(dB) = Antenna Factor(dBuV/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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11.6 Measurement Result:

11.6.1 Radiated Band Edge Measurement Result

ANT0 (monopole)

Report Number :TERF2211002257ER

Operation Mode :BLE 1M

Test Frequency :2402 MHz

Test Mode :Bandedge

EUT Pol :H Plane

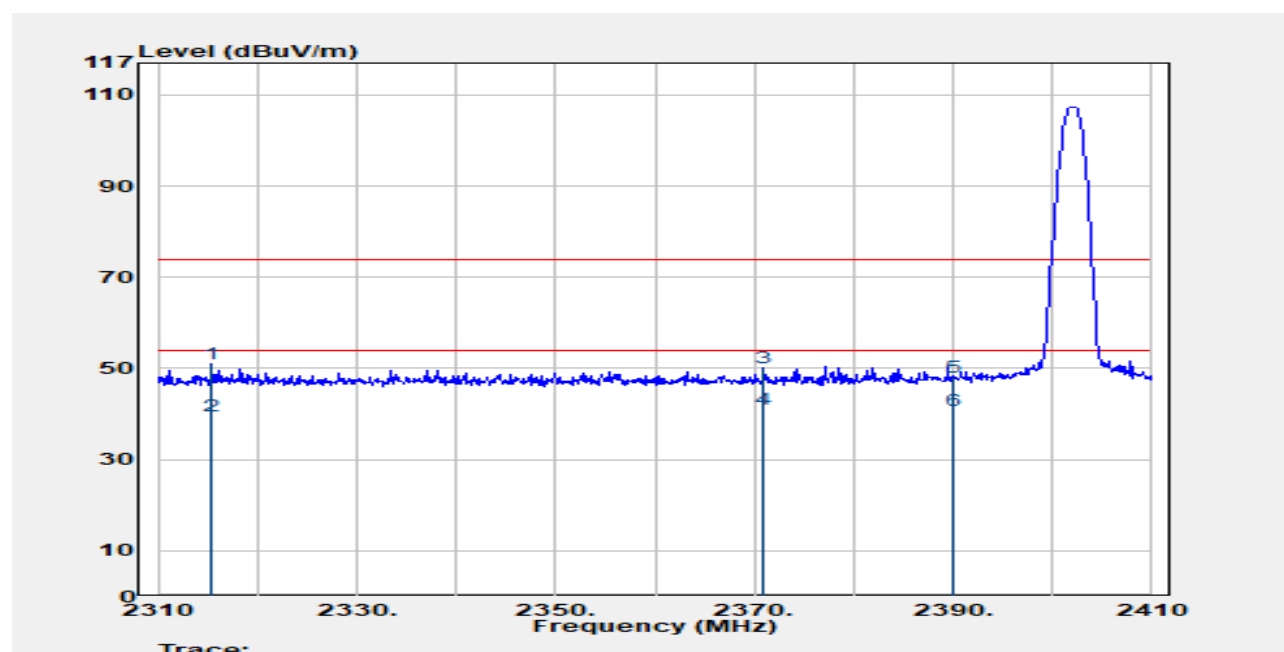
Test Site :SAC 2

Test Date :2023-01-09

Temp./Humi. :22.8/60

Antenna Pol. :Vertical

Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2315.400	Peak	55.24	-4.34	50.90	74.00	-23.10
2315.400	Average	43.88	-4.34	39.54	54.00	-14.46
2371.000	Peak	54.60	-4.31	50.29	74.00	-23.71
2371.000	Average	45.41	-4.31	41.10	54.00	-12.90
2390.000	Peak	52.40	-4.25	48.16	74.00	-25.84
2390.000	Average	44.96	-4.25	40.71	54.00	-13.29

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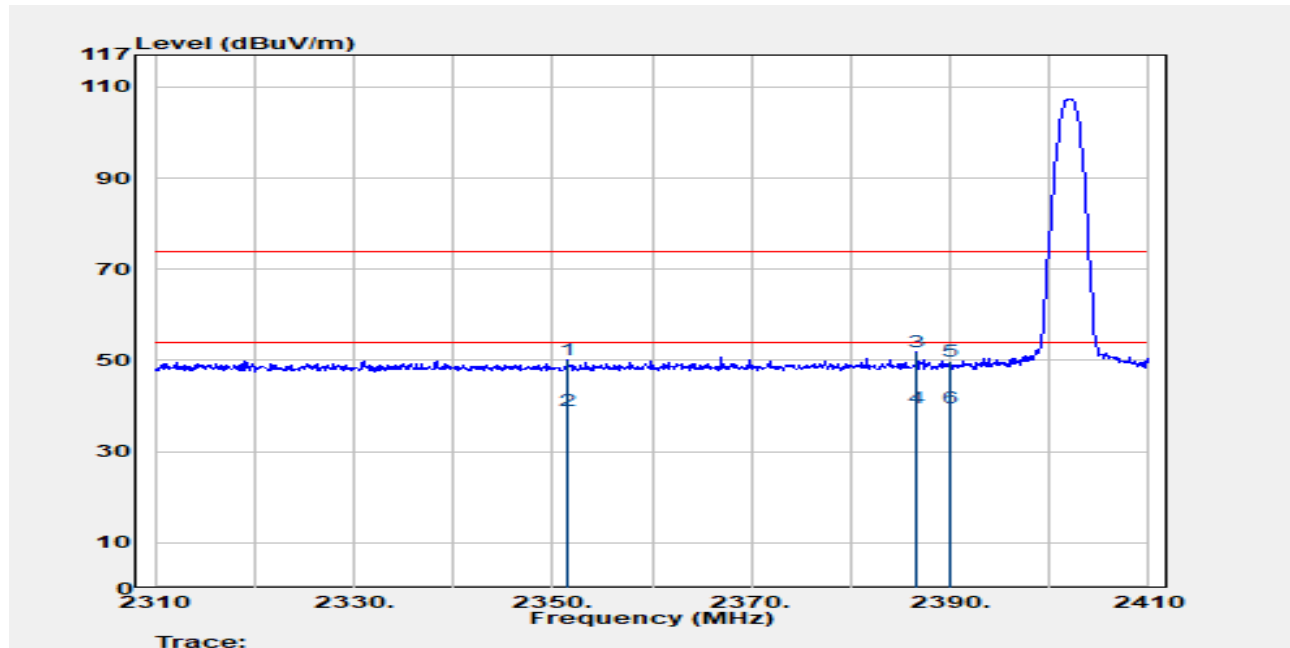
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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



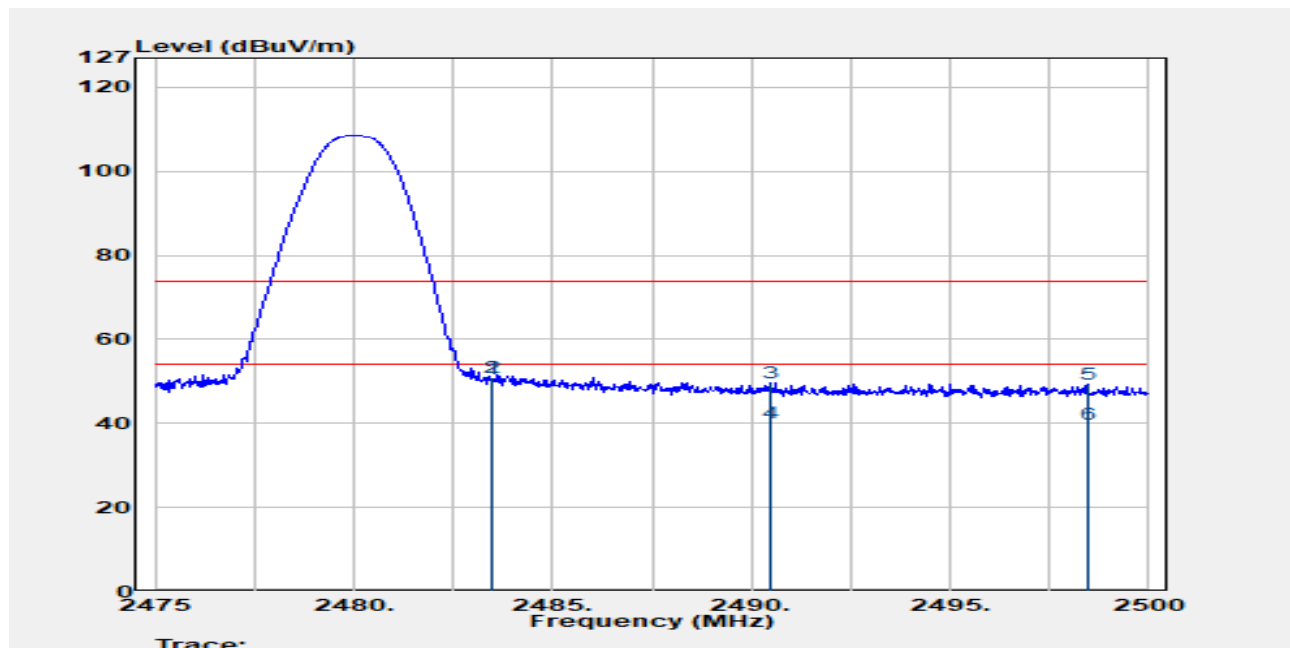
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2351.500	Peak	54.42	-4.38	50.03	74.00	-23.97
2351.500	Average	43.35	-4.38	38.97	54.00	-15.03
2386.700	Peak	56.15	-4.26	51.89	74.00	-22.11
2386.700	Average	43.73	-4.26	39.47	54.00	-14.53
2390.000	Peak	54.05	-4.25	49.81	74.00	-24.19
2390.000	Average	43.80	-4.25	39.55	54.00	-14.45

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



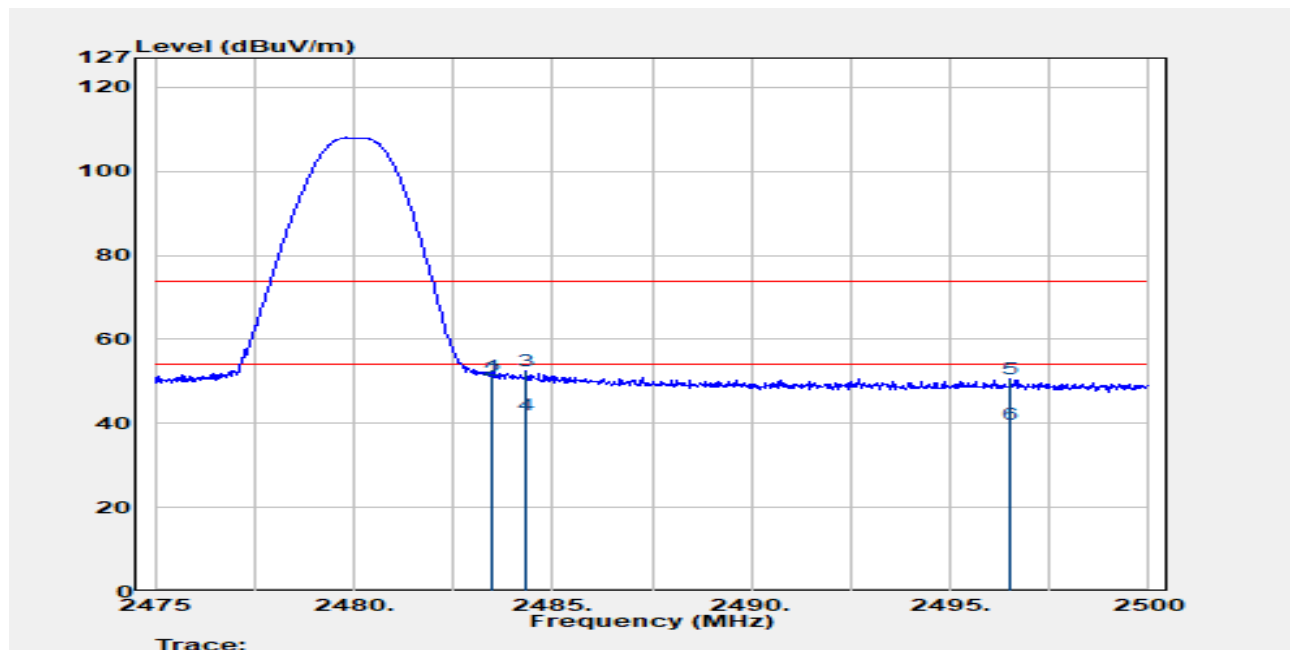
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	54.86	-4.26	50.61	74.00	-23.39
2483.500	Average	55.04	-4.26	50.78	54.00	-3.22
2490.450	Peak	53.94	-4.20	49.73	74.00	-24.27
2490.450	Average	44.30	-4.20	40.10	54.00	-13.90
2498.475	Peak	53.45	-4.14	49.31	74.00	-24.69
2498.475	Average	43.87	-4.14	39.73	54.00	-14.27

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



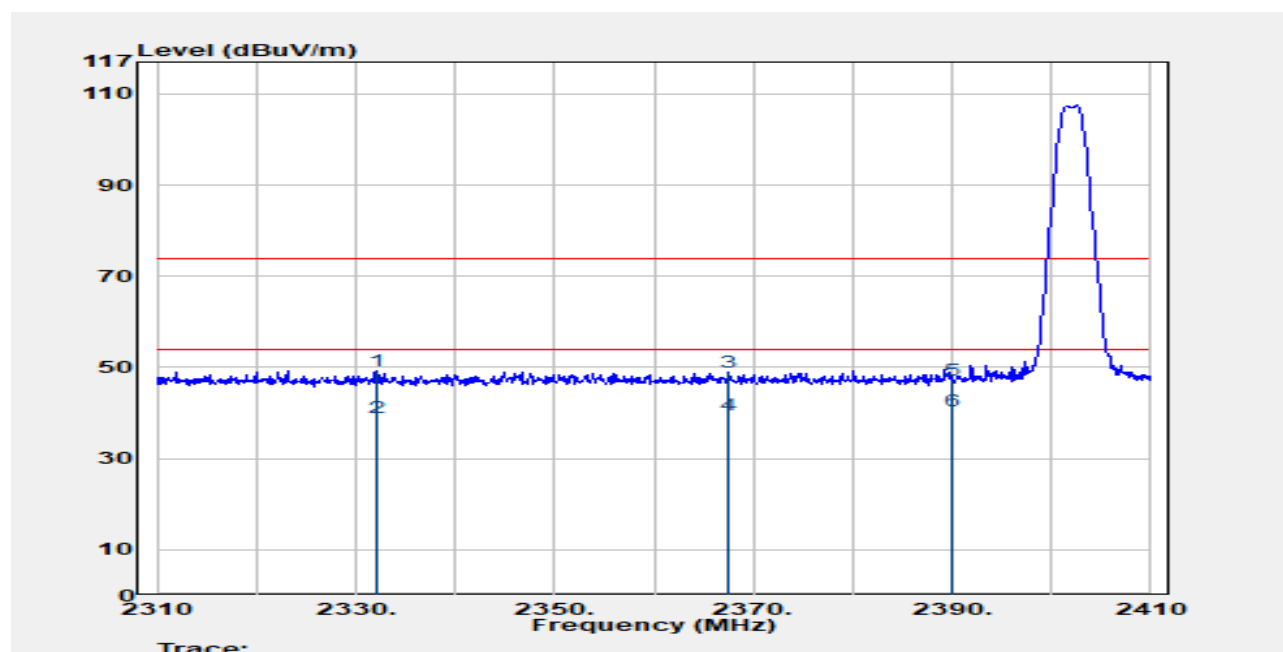
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	55.64	-4.26	51.39	74.00	-22.61
2483.500	Average	54.66	-4.26	50.40	54.00	-3.60
2484.350	Peak	56.88	-4.25	52.63	74.00	-21.37
2484.350	Average	46.30	-4.25	42.05	54.00	-11.95
2496.500	Peak	54.68	-4.16	50.53	74.00	-23.47
2496.500	Average	43.83	-4.16	39.67	54.00	-14.33

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



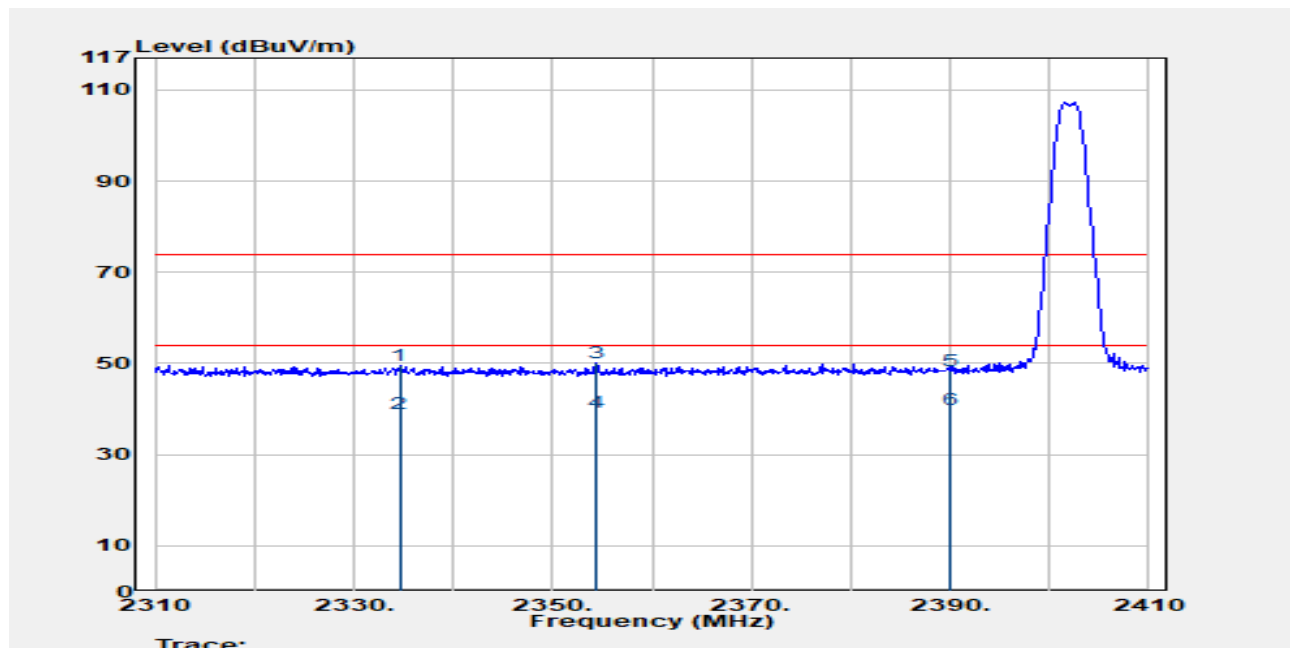
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2332.000	Peak	53.53	-4.36	49.16	74.00	-24.84
2332.000	Average	43.49	-4.36	39.13	54.00	-14.87
2367.500	Peak	53.32	-4.33	49.00	74.00	-25.00
2367.500	Average	43.96	-4.33	39.63	54.00	-14.37
2390.000	Peak	51.43	-4.25	47.18	74.00	-26.82
2390.000	Average	44.59	-4.25	40.34	54.00	-13.66

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Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



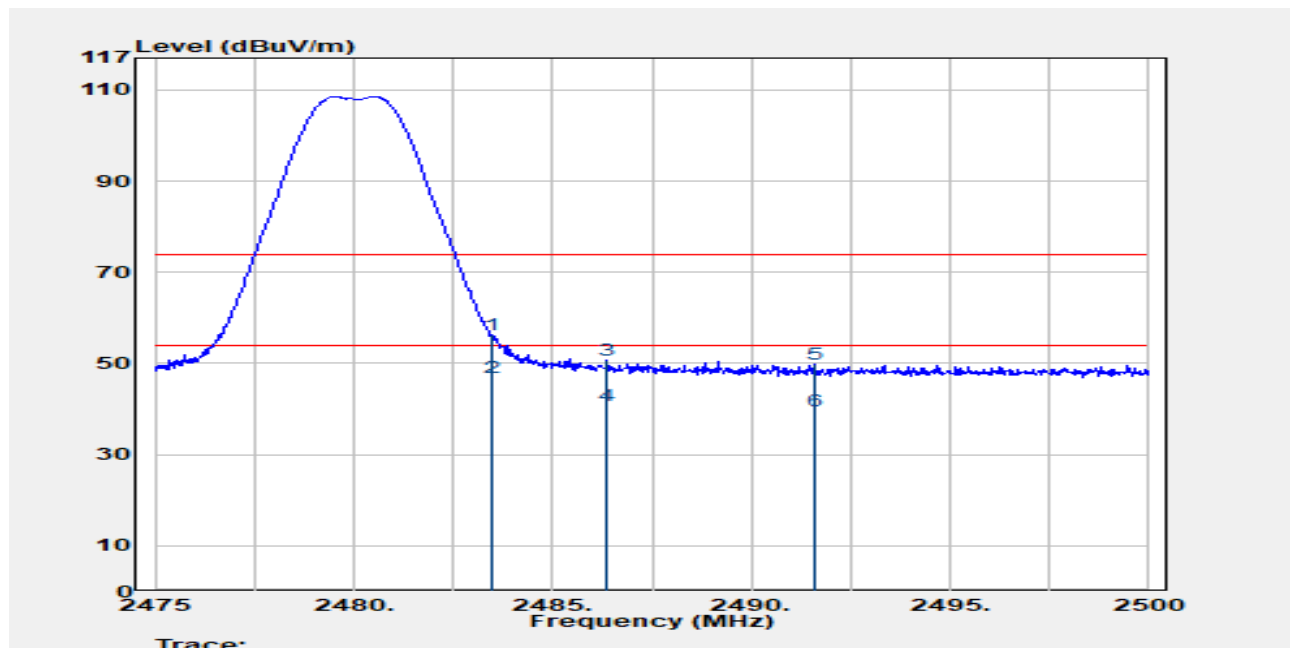
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2334.600	Peak	53.82	-4.37	49.45	74.00	-24.55
2334.600	Average	43.44	-4.37	39.07	54.00	-14.93
2354.300	Peak	54.40	-4.37	50.03	74.00	-23.97
2354.300	Average	43.70	-4.37	39.33	54.00	-14.67
2390.000	Peak	52.73	-4.25	48.48	74.00	-25.52
2390.000	Average	44.09	-4.25	39.84	54.00	-14.16

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



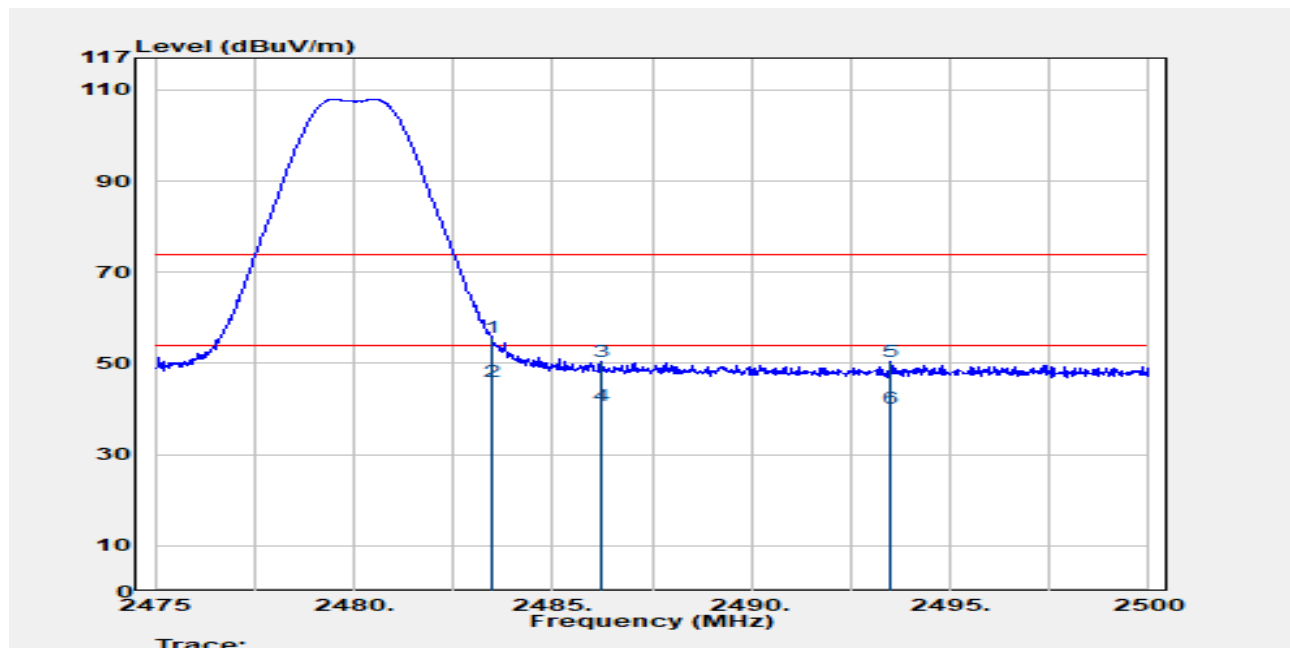
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	60.64	-4.26	56.38	74.00	-17.62
2483.500	Average	51.08	-4.26	46.82	54.00	-7.18
2486.350	Peak	54.86	-4.24	50.63	74.00	-23.37
2486.350	Average	44.91	-4.24	40.67	54.00	-13.33
2491.575	Peak	54.05	-4.20	49.85	74.00	-24.15
2491.575	Average	43.69	-4.20	39.49	54.00	-14.51

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	59.88	-4.26	55.62	74.00	-18.38
2483.500	Average	50.38	-4.26	46.12	54.00	-7.88
2486.200	Peak	54.79	-4.24	50.55	74.00	-23.45
2486.200	Average	44.94	-4.24	40.70	54.00	-13.30
2493.525	Peak	54.76	-4.18	50.58	74.00	-23.42
2493.525	Average	44.22	-4.18	40.04	54.00	-13.96

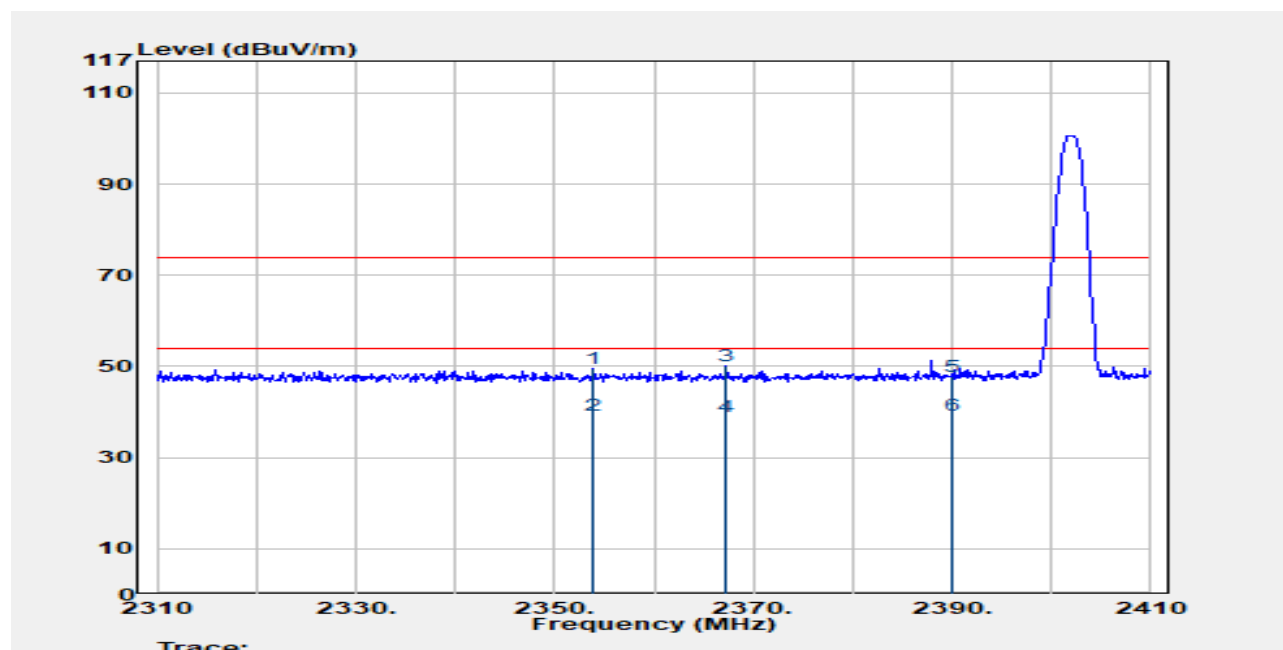
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ANT0 (dipole)

Report Number :TERF2211002257ER
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-09
Temp./Humi. :22.8/60
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2353.900	Peak	53.95	-4.38	49.57	74.00	-24.43
2353.900	Average	43.69	-4.38	39.31	54.00	-14.69
2367.300	Peak	54.44	-4.33	50.12	74.00	-23.88
2367.300	Average	43.36	-4.33	39.03	54.00	-14.97
2390.000	Peak	52.17	-4.25	47.93	74.00	-26.07
2390.000	Average	43.45	-4.25	39.20	54.00	-14.80

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

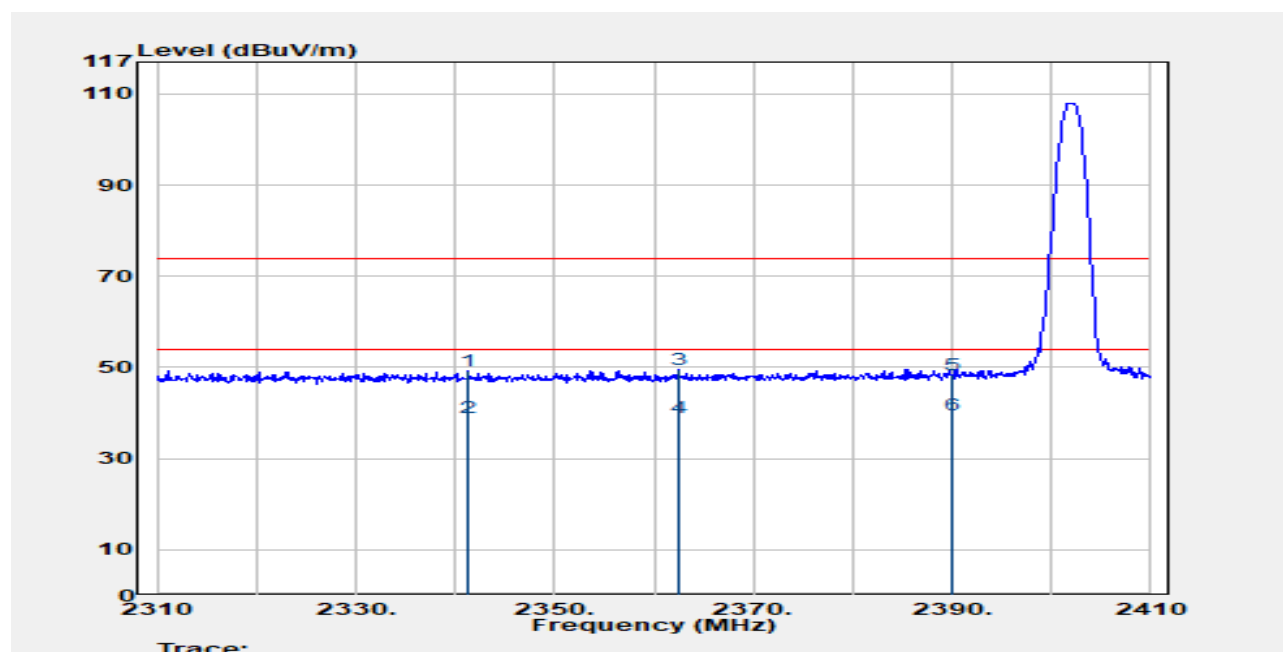
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



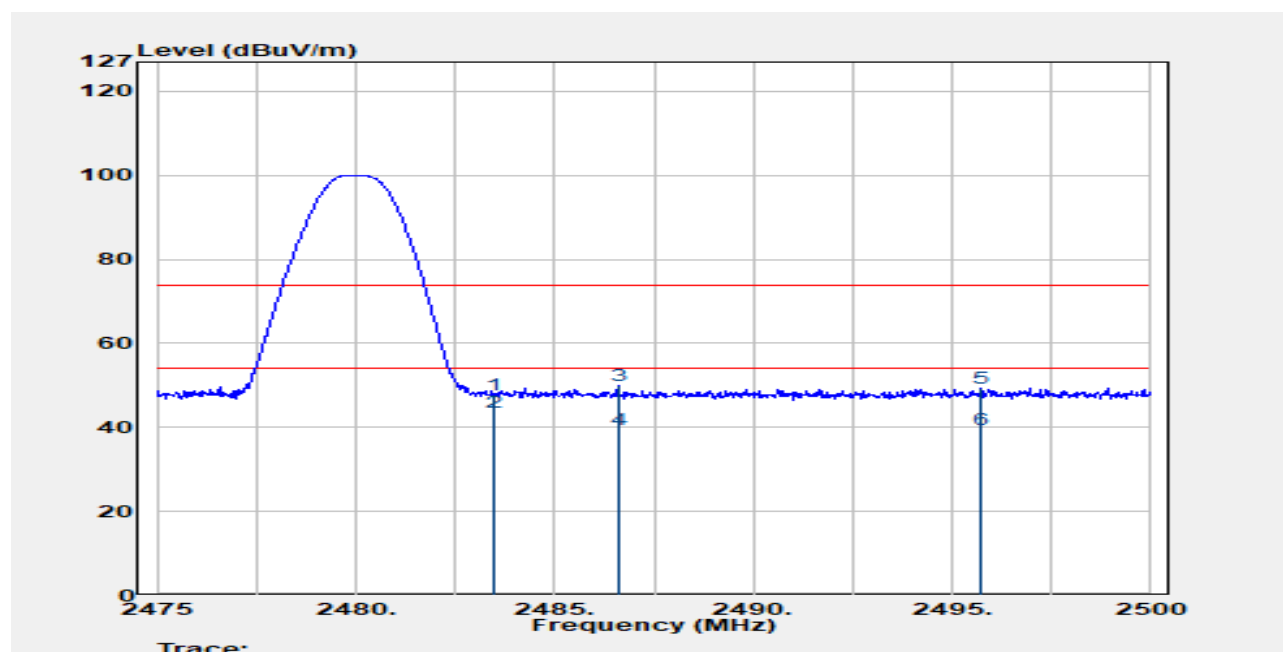
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2341.300	Peak	53.61	-4.38	49.23	74.00	-24.77
2341.300	Average	43.37	-4.38	38.99	54.00	-15.01
2362.400	Peak	53.98	-4.35	49.63	74.00	-24.37
2362.400	Average	43.31	-4.35	38.97	54.00	-15.04
2390.000	Peak	52.67	-4.25	48.43	74.00	-25.57
2390.000	Average	43.85	-4.25	39.60	54.00	-14.40

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



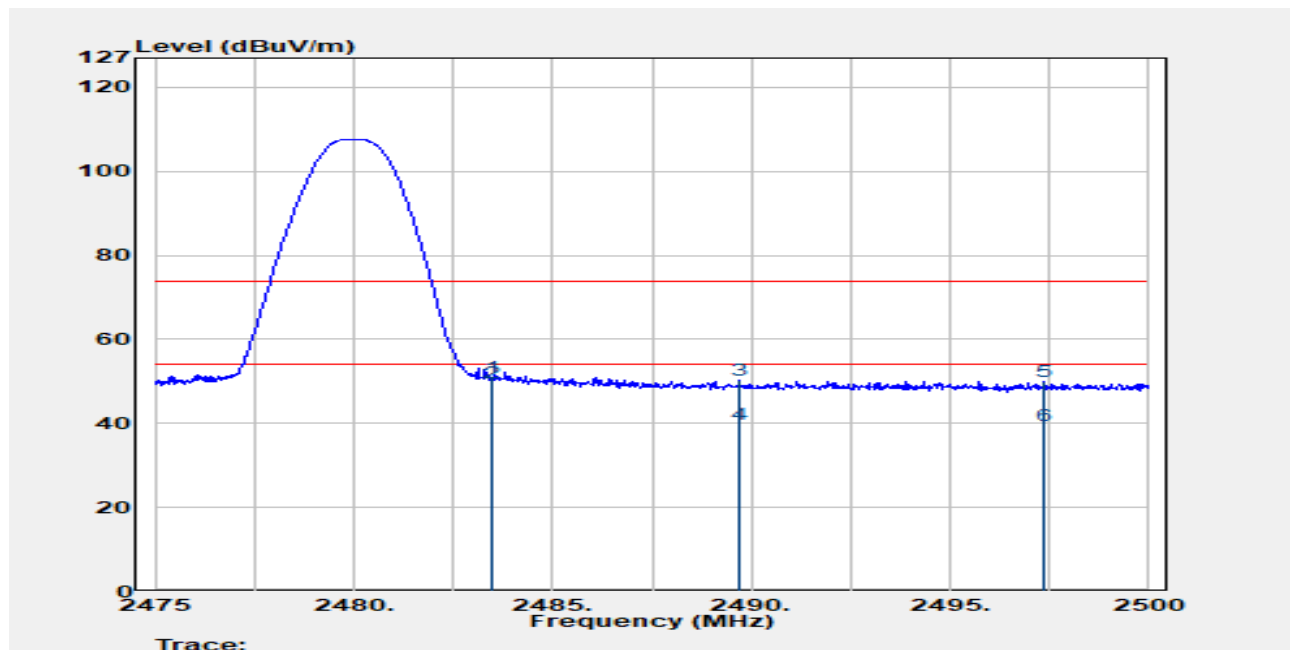
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	51.93	-4.26	47.67	74.00	-26.33
2483.500	Average	47.74	-4.26	43.48	54.00	-10.52
2486.600	Peak	54.35	-4.23	50.11	74.00	-23.89
2486.600	Average	43.57	-4.23	39.34	54.00	-14.66
2495.750	Peak	53.54	-4.16	49.38	74.00	-24.62
2495.750	Average	43.55	-4.16	39.39	54.00	-14.61

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Report Number :TERF2211002257ER
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-09
Temp./Humi. :22.8/60
Antenna Pol. :Horizontal
Engineer :Ricky Chen



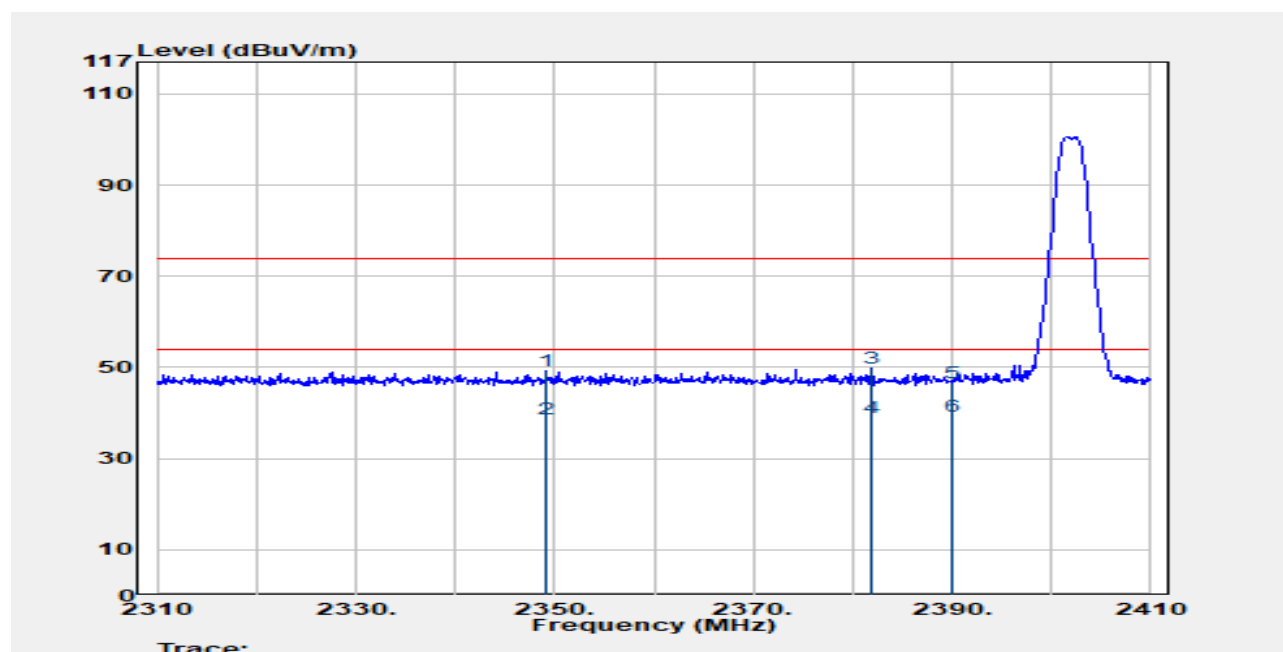
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	55.30	-4.26	51.04	74.00	-22.96
2483.500	Average	53.77	-4.26	49.51	54.00	-4.49
2489.700	Peak	54.47	-4.21	50.26	74.00	-23.74
2489.700	Average	43.97	-4.21	39.76	54.00	-14.24
2497.375	Peak	54.13	-4.15	49.98	74.00	-24.02
2497.375	Average	43.68	-4.15	39.53	54.00	-14.47

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



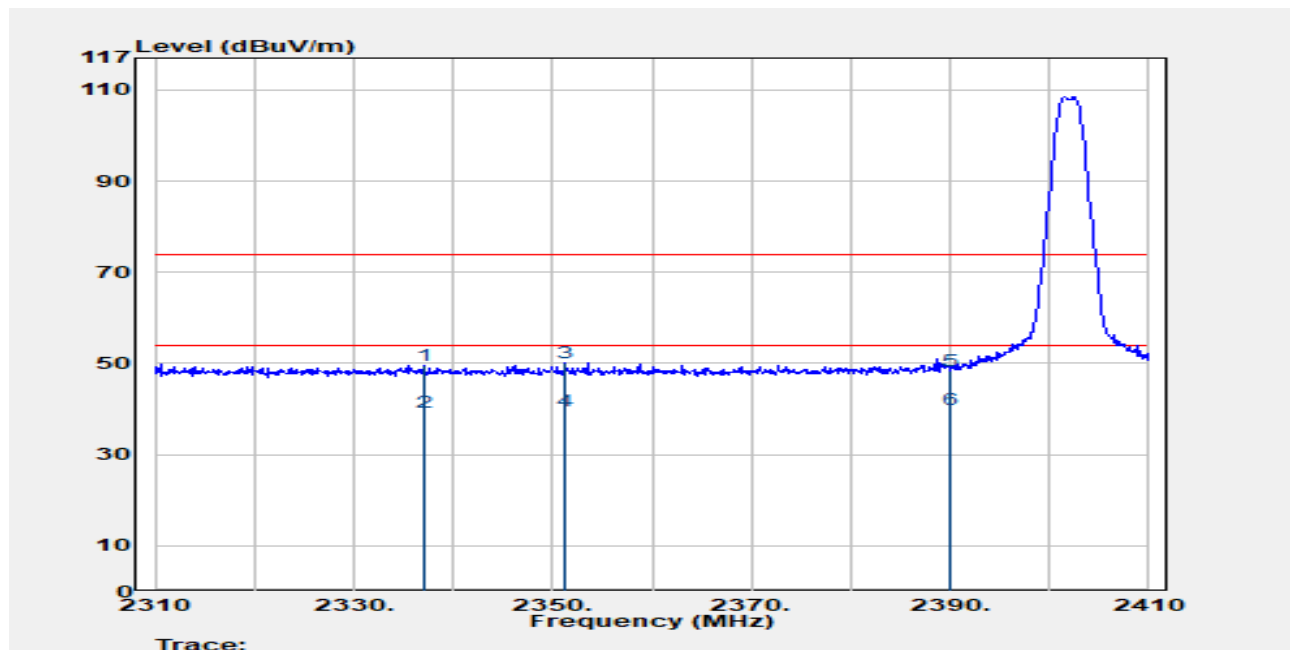
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2349.100	Peak	53.59	-4.39	49.20	74.00	-24.80
2349.100	Average	43.23	-4.39	38.84	54.00	-15.16
2382.000	Peak	54.01	-4.27	49.73	74.00	-24.27
2382.000	Average	43.26	-4.27	38.98	54.00	-15.02
2390.000	Peak	51.01	-4.25	46.76	74.00	-27.24
2390.000	Average	43.60	-4.25	39.35	54.00	-14.65

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



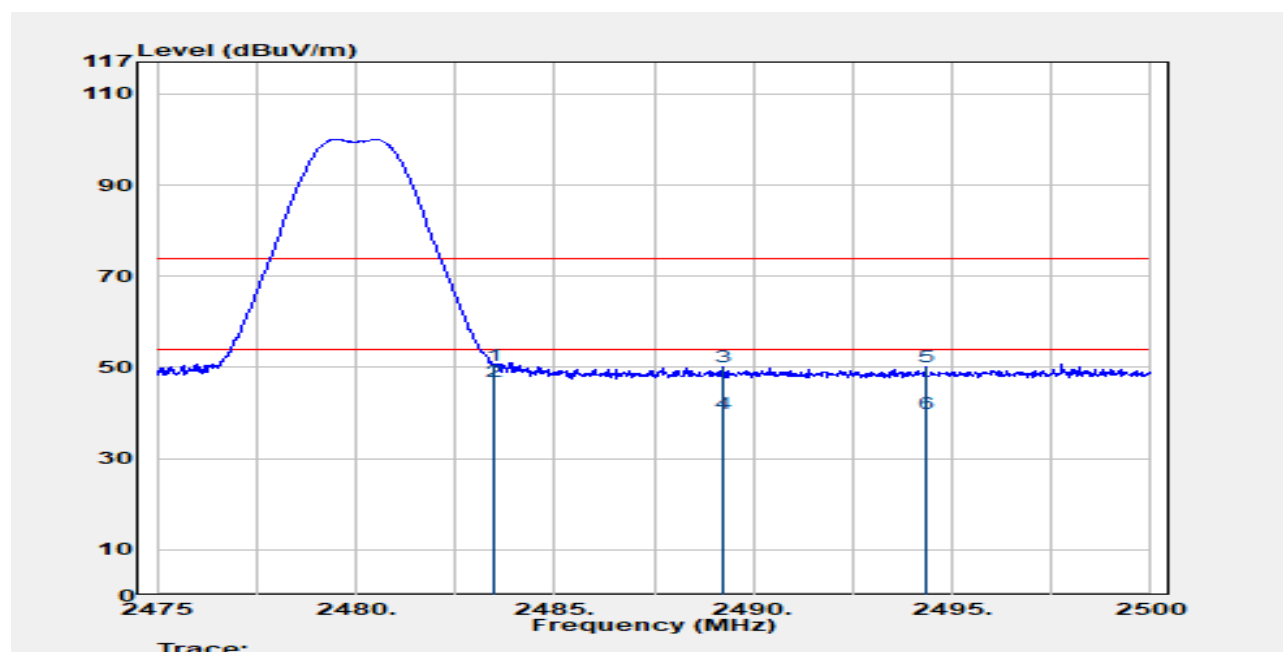
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2337.000	Peak	53.97	-4.37	49.59	74.00	-24.41
2337.000	Average	43.68	-4.37	39.31	54.00	-14.69
2351.300	Peak	54.45	-4.39	50.06	74.00	-23.94
2351.300	Average	43.99	-4.39	39.60	54.00	-14.40
2390.000	Peak	52.77	-4.25	48.52	74.00	-25.48
2390.000	Average	44.16	-4.25	39.91	54.00	-14.09

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



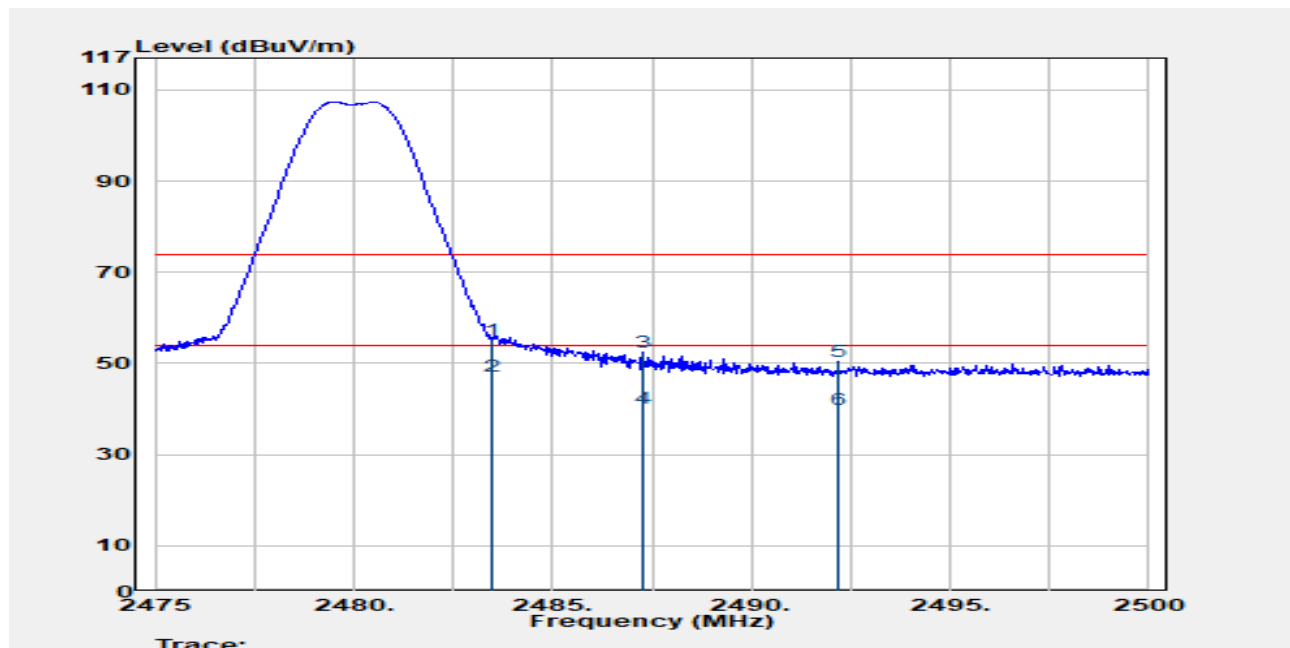
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	54.64	-4.26	50.38	74.00	-23.62
2483.500	Average	51.17	-4.26	46.91	54.00	-7.09
2489.225	Peak	54.47	-4.21	50.25	74.00	-23.75
2489.225	Average	43.99	-4.21	39.78	54.00	-14.22
2494.350	Peak	54.43	-4.17	50.26	74.00	-23.74
2494.350	Average	44.13	-4.17	39.96	54.00	-14.04

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	59.26	-4.26	55.00	74.00	-19.00
2483.500	Average	51.53	-4.26	47.27	54.00	-6.73
2487.250	Peak	56.60	-4.23	52.37	74.00	-21.63
2487.250	Average	44.33	-4.23	40.10	54.00	-13.90
2492.175	Peak	54.74	-4.19	50.55	74.00	-23.45
2492.175	Average	44.11	-4.19	39.92	54.00	-14.08

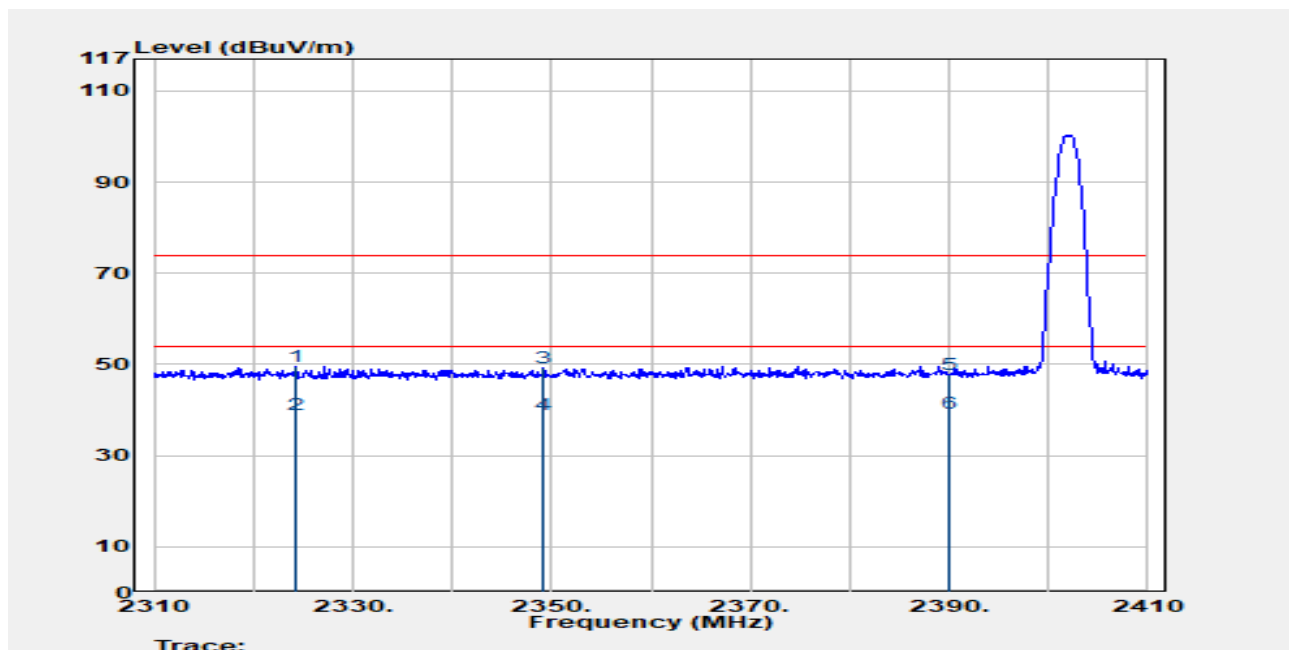
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BT_ANT (dipole)

Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2324.200	Peak	53.82	-4.35	49.47	74.00	-24.53
2324.200	Average	43.23	-4.35	38.88	54.00	-15.12
2349.100	Peak	53.66	-4.39	49.27	74.00	-24.73
2349.100	Average	43.30	-4.39	38.91	54.00	-15.09
2390.000	Peak	52.11	-4.25	47.86	74.00	-26.14
2390.000	Average	43.52	-4.25	39.27	54.00	-14.73

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台灣檢驗科技股份有限公司

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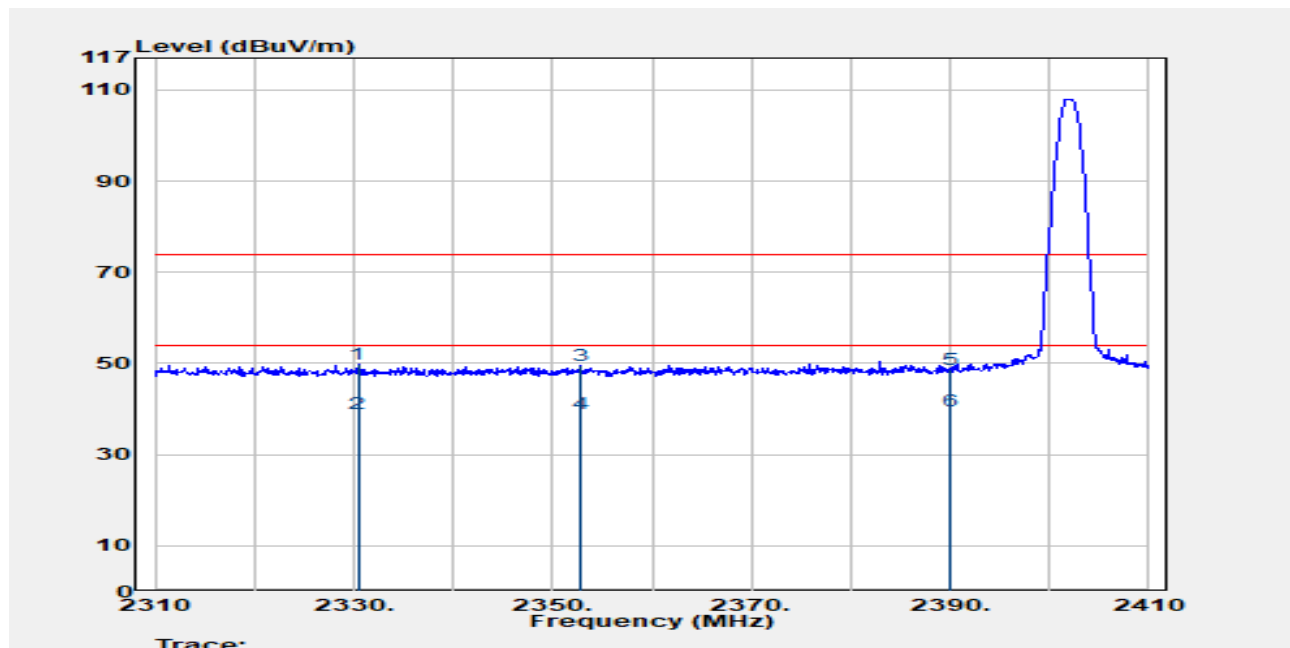
f (886-2) 2298-0488

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



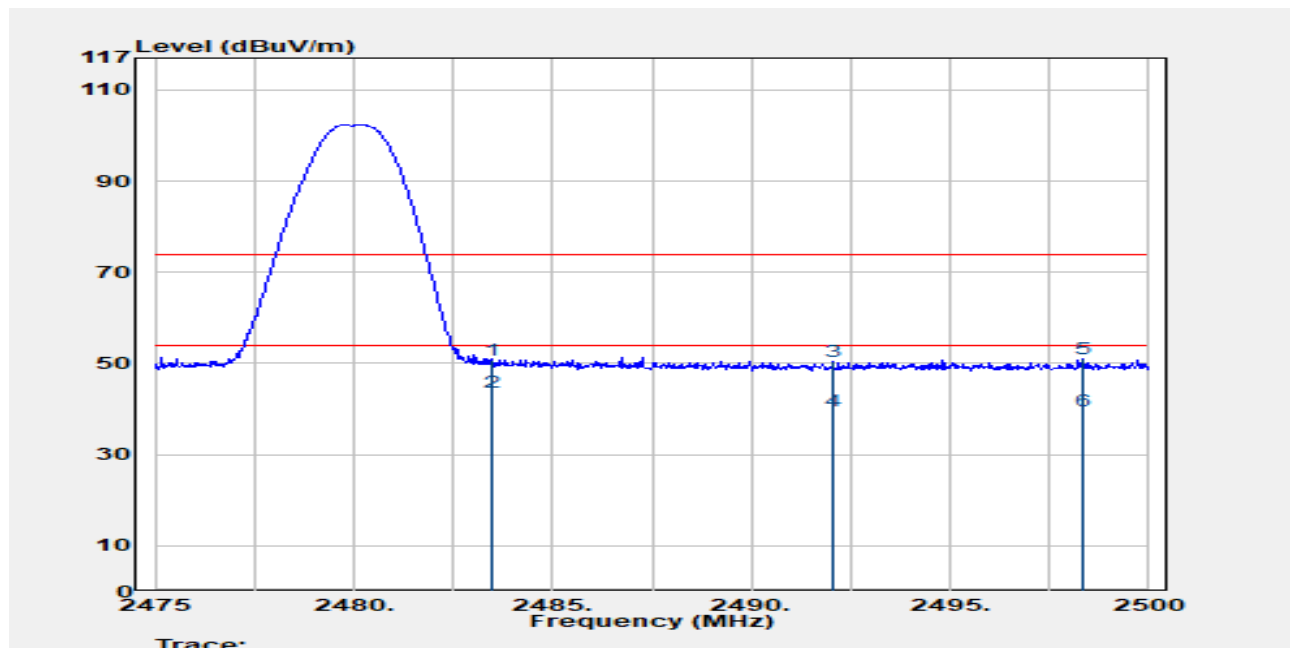
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2330.400	Peak	54.14	-4.36	49.78	74.00	-24.22
2330.400	Average	43.33	-4.36	38.97	54.00	-15.03
2352.900	Peak	53.87	-4.38	49.49	74.00	-24.51
2352.900	Average	43.51	-4.38	39.13	54.00	-14.87
2390.000	Peak	53.02	-4.25	48.77	74.00	-25.23
2390.000	Average	43.95	-4.25	39.70	54.00	-14.30

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



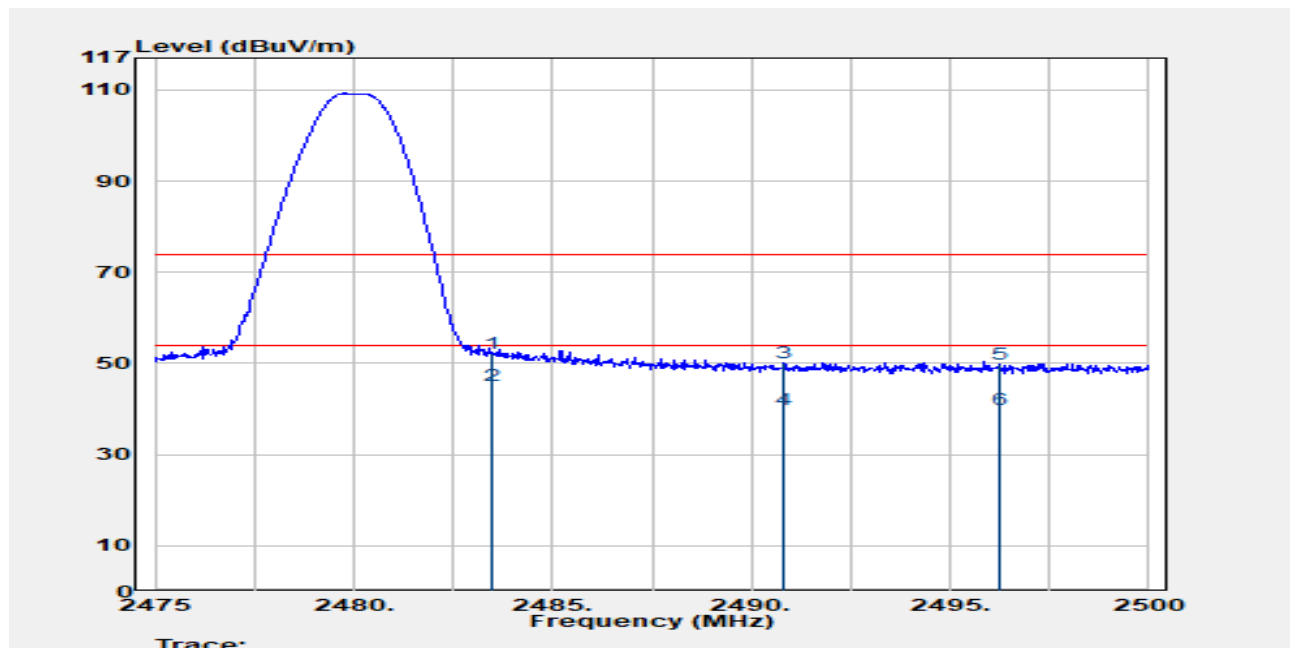
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	54.88	-4.26	50.63	74.00	-23.37
2483.500	Average	47.96	-4.26	43.70	54.00	-10.30
2492.050	Peak	54.59	-4.19	50.40	74.00	-23.60
2492.050	Average	43.72	-4.19	39.53	54.00	-14.47
2498.350	Peak	55.02	-4.14	50.88	74.00	-23.12
2498.350	Average	43.65	-4.14	39.51	54.00	-14.49

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



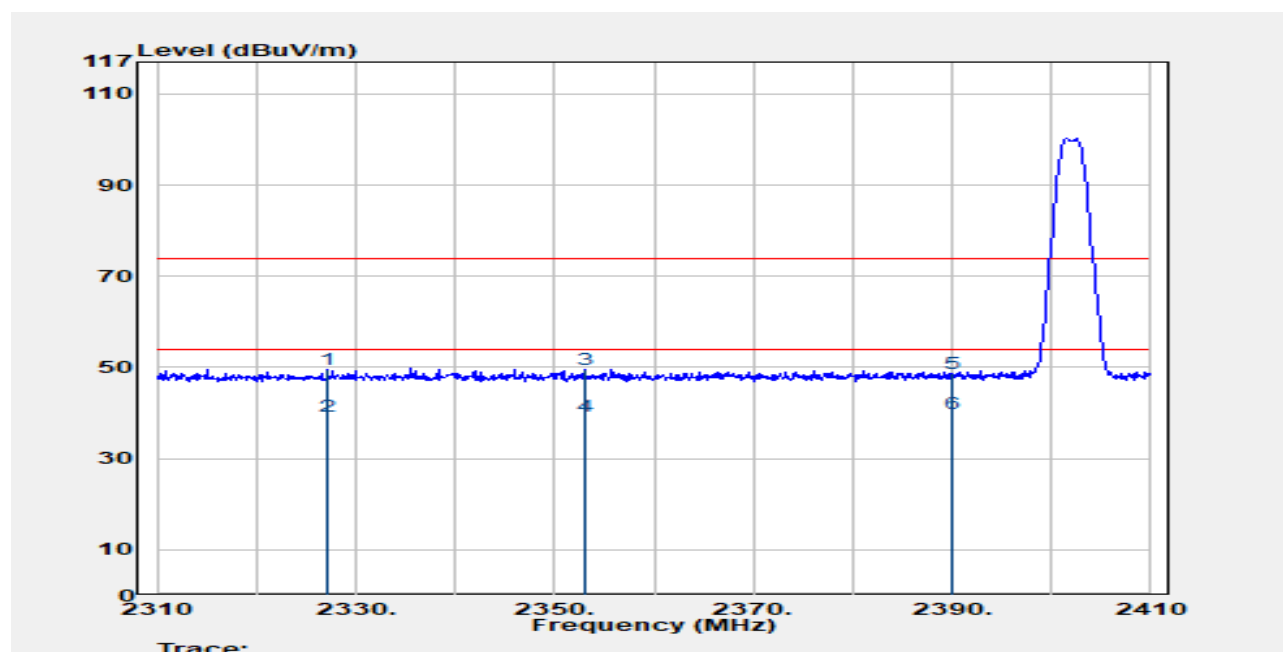
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	56.45	-4.26	52.19	74.00	-21.81
2483.500	Average	49.56	-4.26	45.30	54.00	-8.70
2490.800	Peak	54.47	-4.20	50.27	74.00	-23.73
2490.800	Average	44.20	-4.20	40.00	54.00	-14.00
2496.275	Peak	54.05	-4.16	49.89	74.00	-24.11
2496.275	Average	43.90	-4.16	39.74	54.00	-14.26

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



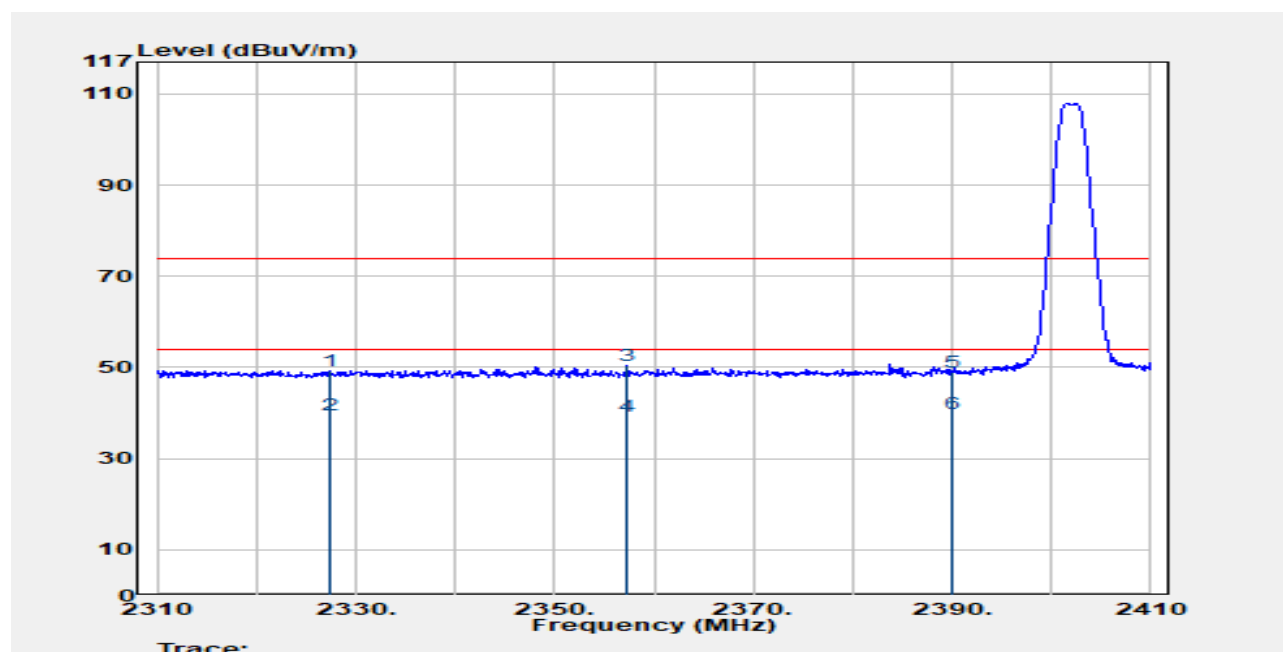
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2327.100	Peak	53.81	-4.36	49.45	74.00	-24.55
2327.100	Average	43.74	-4.36	39.38	54.00	-14.62
2353.000	Peak	54.07	-4.38	49.69	74.00	-24.31
2353.000	Average	43.79	-4.38	39.41	54.00	-14.59
2390.000	Peak	53.04	-4.25	48.79	74.00	-25.21
2390.000	Average	44.16	-4.25	39.91	54.00	-14.09

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



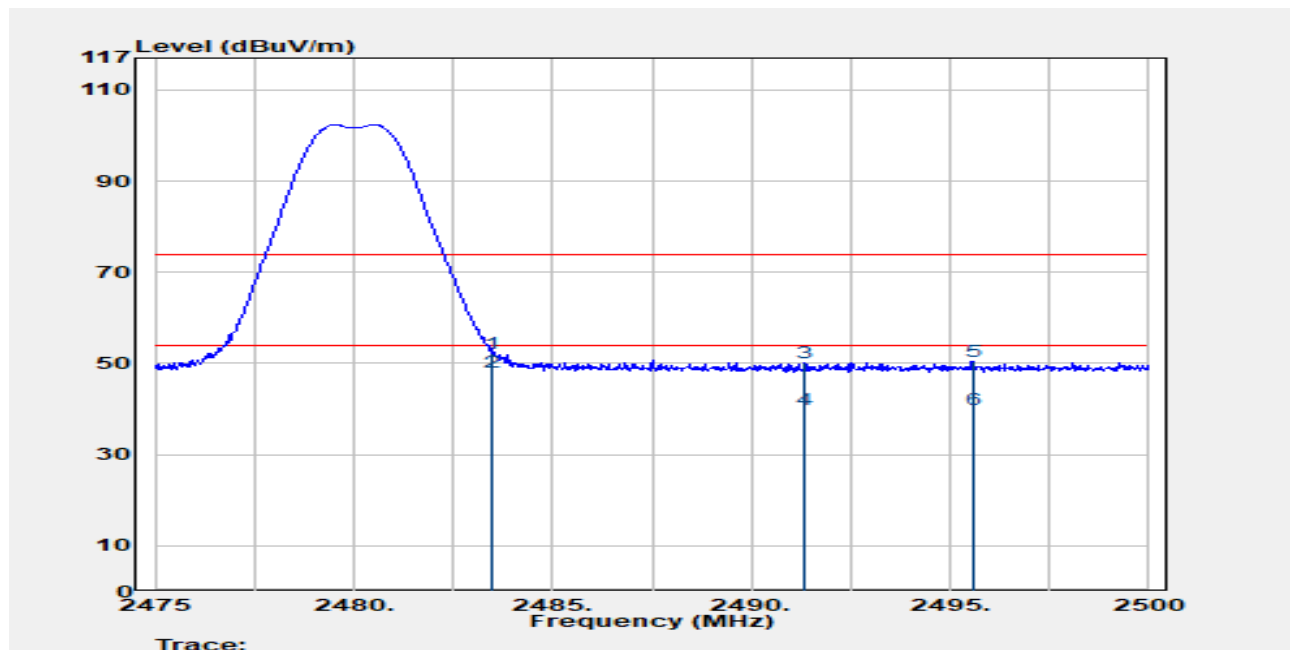
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2327.500	Peak	53.74	-4.36	49.39	74.00	-24.61
2327.500	Average	43.83	-4.36	39.47	54.00	-14.53
2357.300	Peak	54.73	-4.36	50.37	74.00	-23.63
2357.300	Average	43.70	-4.36	39.34	54.00	-14.66
2390.000	Peak	53.32	-4.25	49.07	74.00	-24.93
2390.000	Average	44.22	-4.25	39.97	54.00	-14.03

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



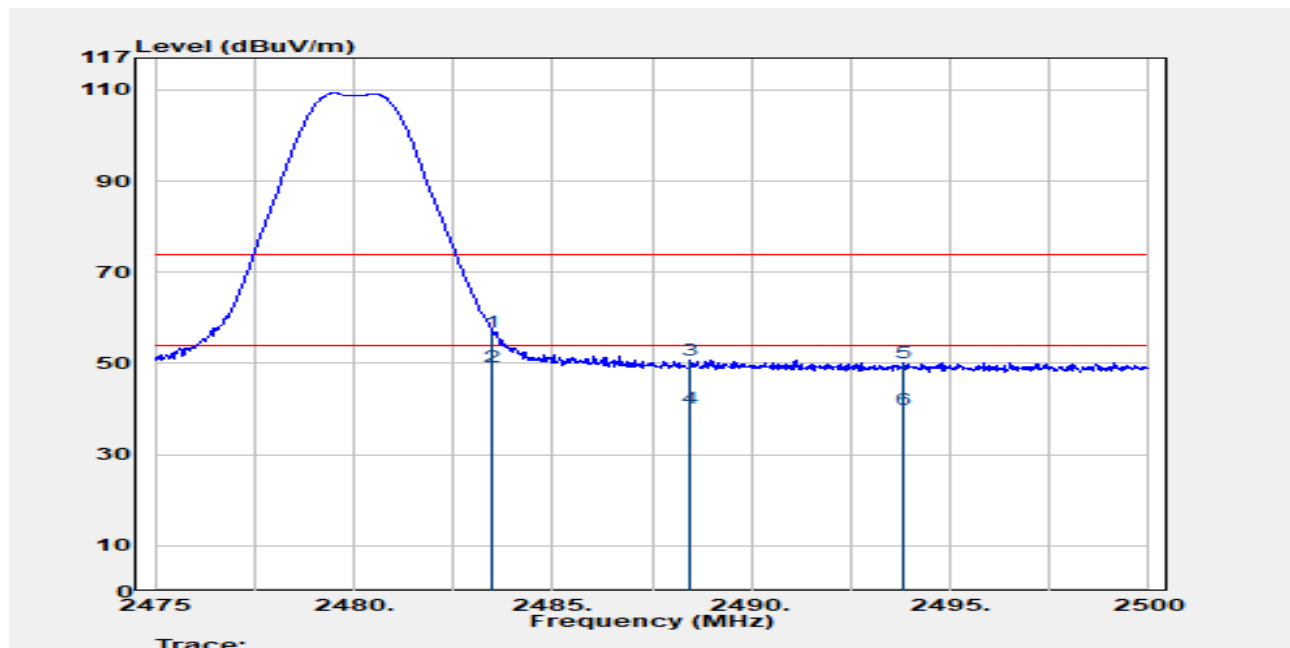
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Peak	56.49	-4.26	52.24	74.00	-21.76
2483.500	Average	52.40	-4.26	48.14	54.00	-5.86
2491.325	Peak	54.34	-4.20	50.14	74.00	-23.86
2491.325	Average	44.04	-4.20	39.84	54.00	-14.16
2495.600	Peak	54.59	-4.16	50.42	74.00	-23.58
2495.600	Average	43.92	-4.16	39.76	54.00	-14.24

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-09
 Temp./Humi. :22.8/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	61.24	-4.26	56.98	74.00	-17.02
2483.500	Average	53.58	-4.26	49.32	54.00	-4.68
2488.450	Peak	55.08	-4.22	50.86	74.00	-23.14
2488.450	Average	44.44	-4.22	40.22	54.00	-13.78
2493.825	Peak	54.43	-4.18	50.26	74.00	-23.74
2493.825	Average	44.05	-4.18	39.87	54.00	-14.13

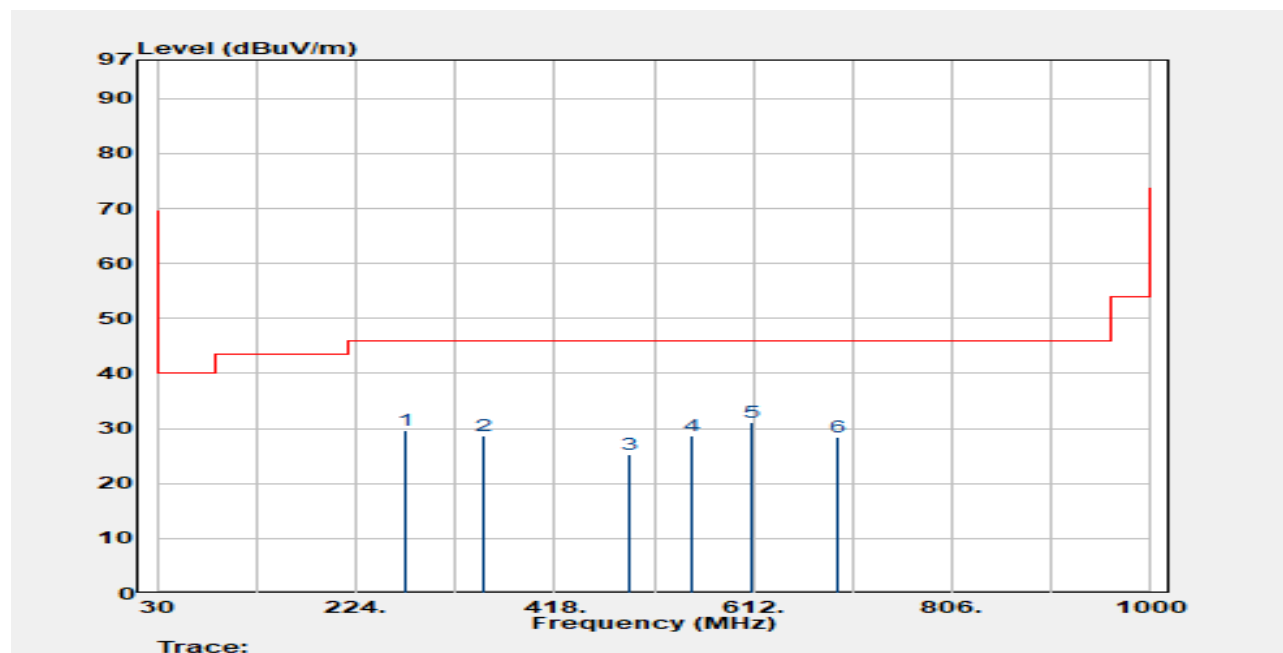
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11.6.2 Radiated Spurious Emission ANT0 (monopole)

Report Number :TERF2211002257ER
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-10
Temp./Humi. :23.5/65
Antenna Pol. :Vertical
Engineer :Ricky Chen



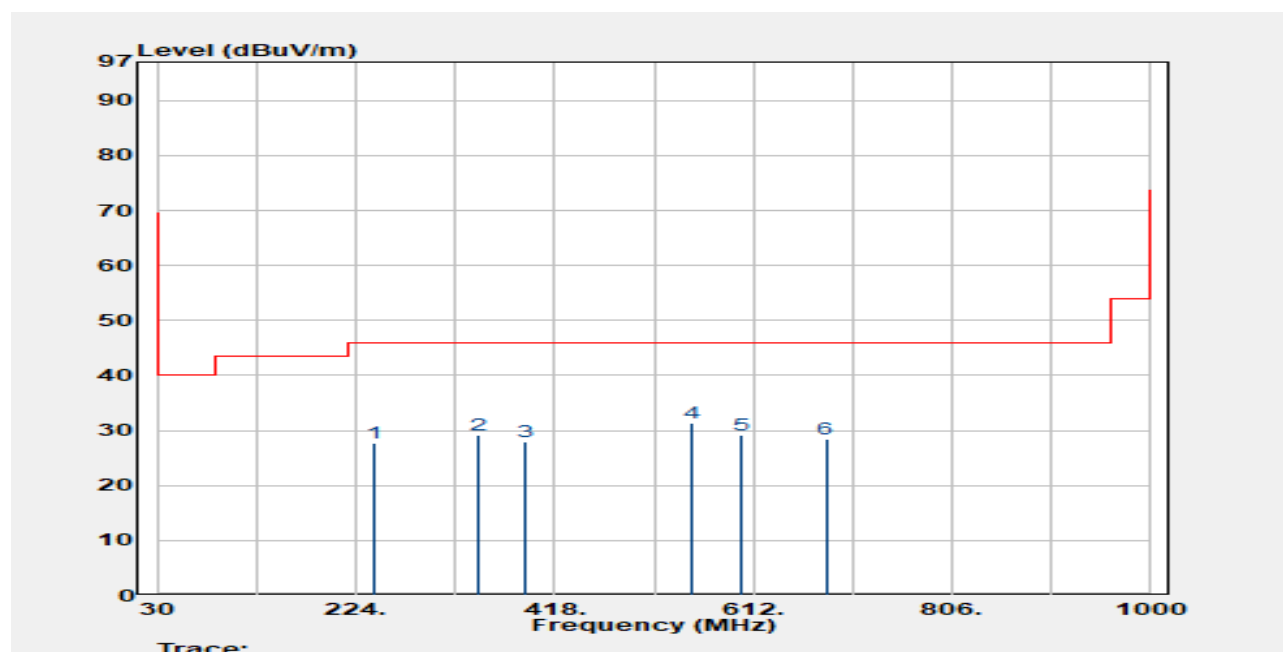
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
273.470	Peak	42.62	-12.97	29.65	46.00	-16.35
348.160	Peak	39.97	-11.19	28.79	46.00	-17.21
491.720	Peak	33.24	-7.84	25.40	46.00	-20.60
551.860	Peak	35.56	-6.76	28.80	46.00	-17.20
611.030	Peak	36.03	-4.82	31.21	46.00	-14.79
694.450	Peak	32.04	-3.65	28.39	46.00	-17.61

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



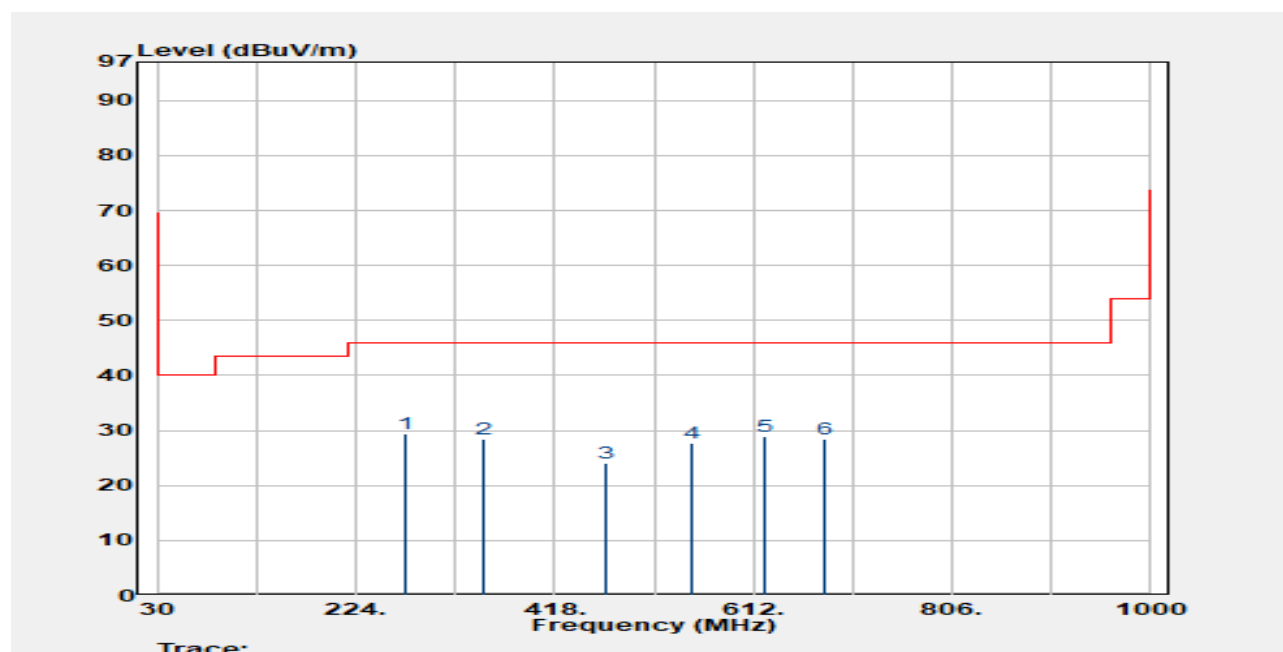
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
242.430	Peak	41.66	-13.83	27.83	46.00	-18.17
344.280	Peak	40.30	-11.11	29.19	46.00	-16.81
389.870	Peak	37.79	-9.95	27.84	46.00	-18.16
551.860	Peak	38.03	-6.76	31.28	46.00	-14.72
600.360	Peak	33.96	-4.78	29.18	46.00	-16.82
682.810	Peak	31.85	-3.50	28.35	46.00	-17.65

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Report Number :TERF2211002257ER
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-10
Temp./Humi. :23.5/65
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
273.470	Peak	42.29	-12.97	29.33	46.00	-16.67
348.160	Peak	39.75	-11.19	28.56	46.00	-17.44
467.470	Peak	32.14	-8.03	24.11	46.00	-21.89
551.860	Peak	34.39	-6.76	27.63	46.00	-18.37
622.670	Peak	34.23	-5.20	29.03	46.00	-16.97
681.840	Peak	31.89	-3.48	28.41	46.00	-17.59

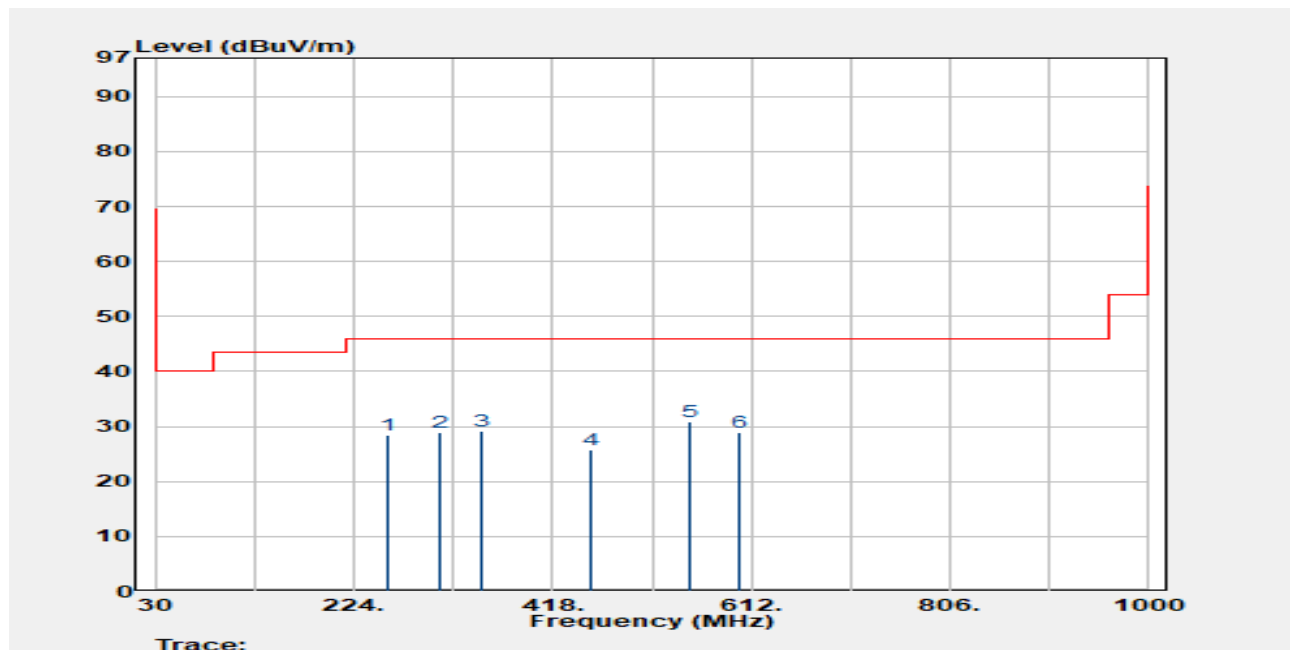
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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



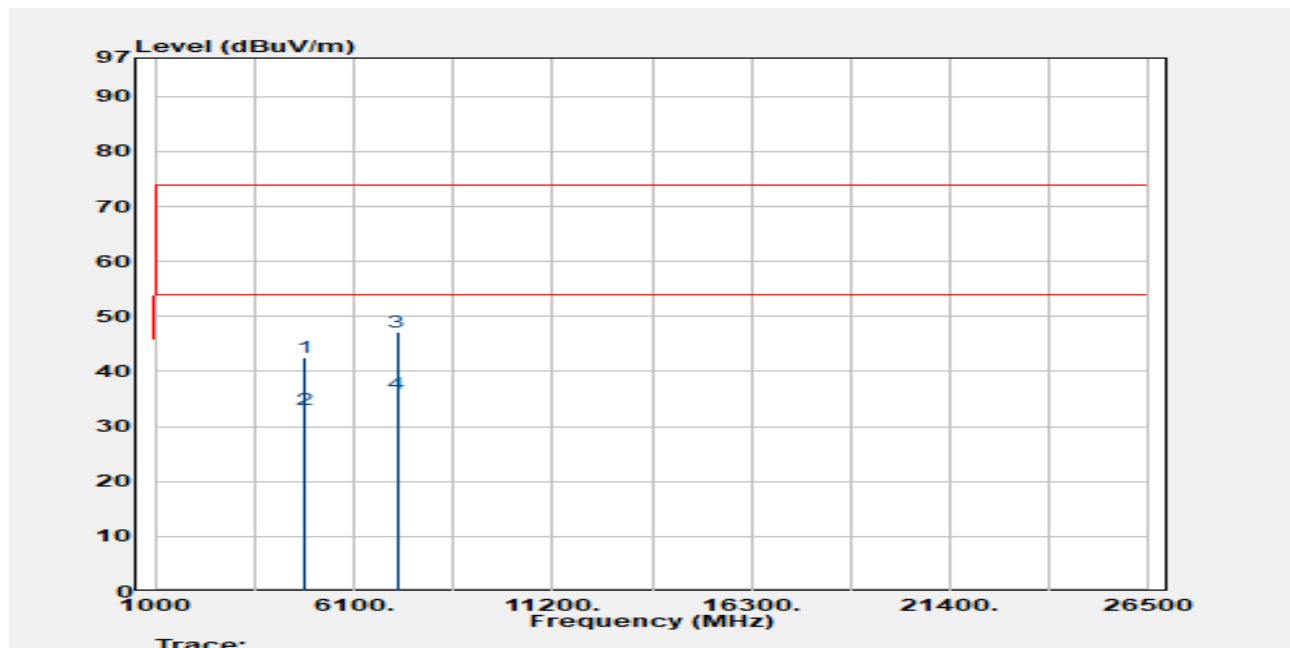
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
257.950	Peak	42.05	-13.58	28.47	46.00	-17.53
308.390	Peak	41.09	-12.28	28.81	46.00	-17.19
348.160	Peak	40.25	-11.19	29.06	46.00	-16.94
455.830	Peak	33.89	-8.13	25.76	46.00	-20.24
551.860	Peak	37.72	-6.76	30.96	46.00	-15.04
600.360	Peak	33.82	-4.78	29.04	46.00	-16.96

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



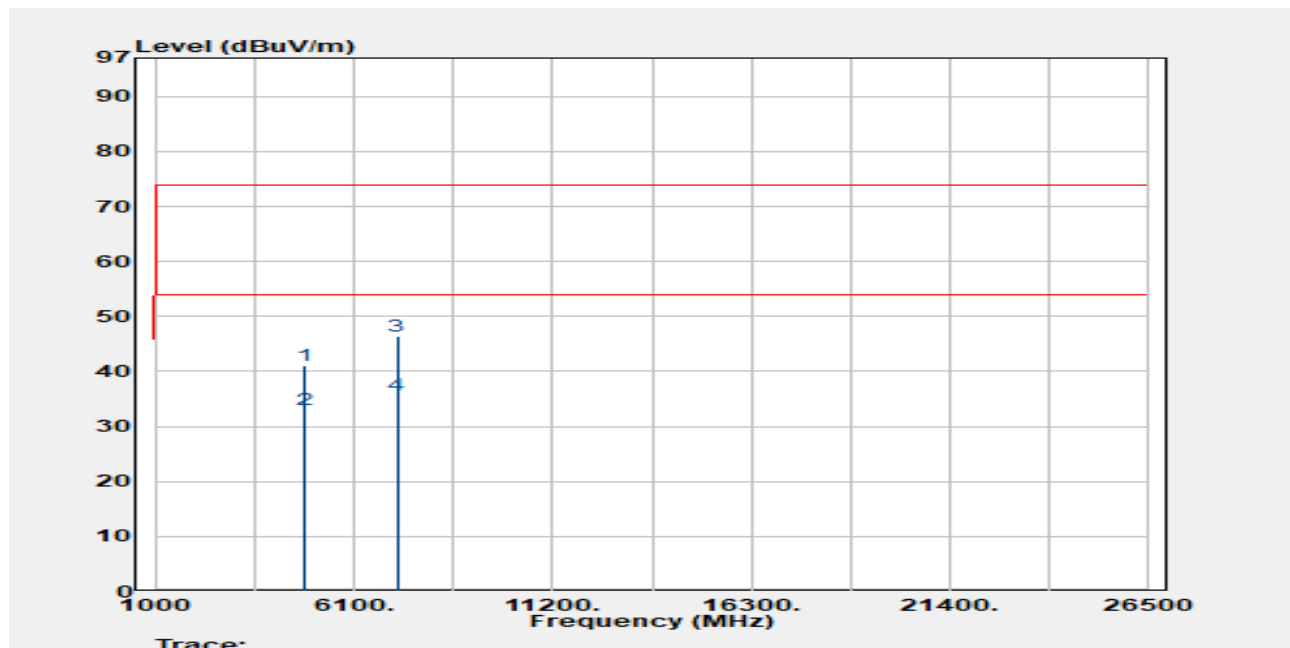
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	40.38	2.10	42.48	74.00	-31.52
4804.000	Average	31.07	2.10	33.17	54.00	-20.83
7206.000	Peak	39.50	7.56	47.06	74.00	-26.94
7206.000	Average	28.51	7.56	36.07	54.00	-17.93

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



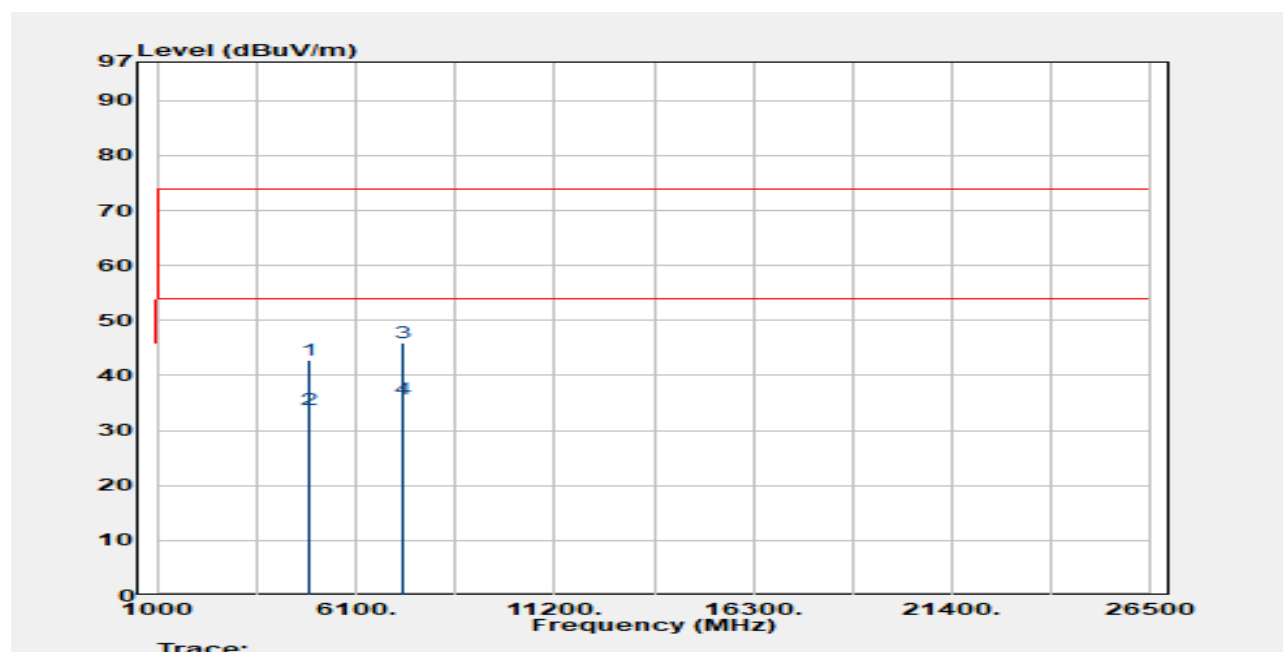
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	38.94	2.10	41.04	74.00	-32.96
4804.000	Average	30.99	2.10	33.09	54.00	-20.91
7206.000	Peak	38.86	7.56	46.42	74.00	-27.58
7206.000	Average	28.11	7.56	35.67	54.00	-18.33

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



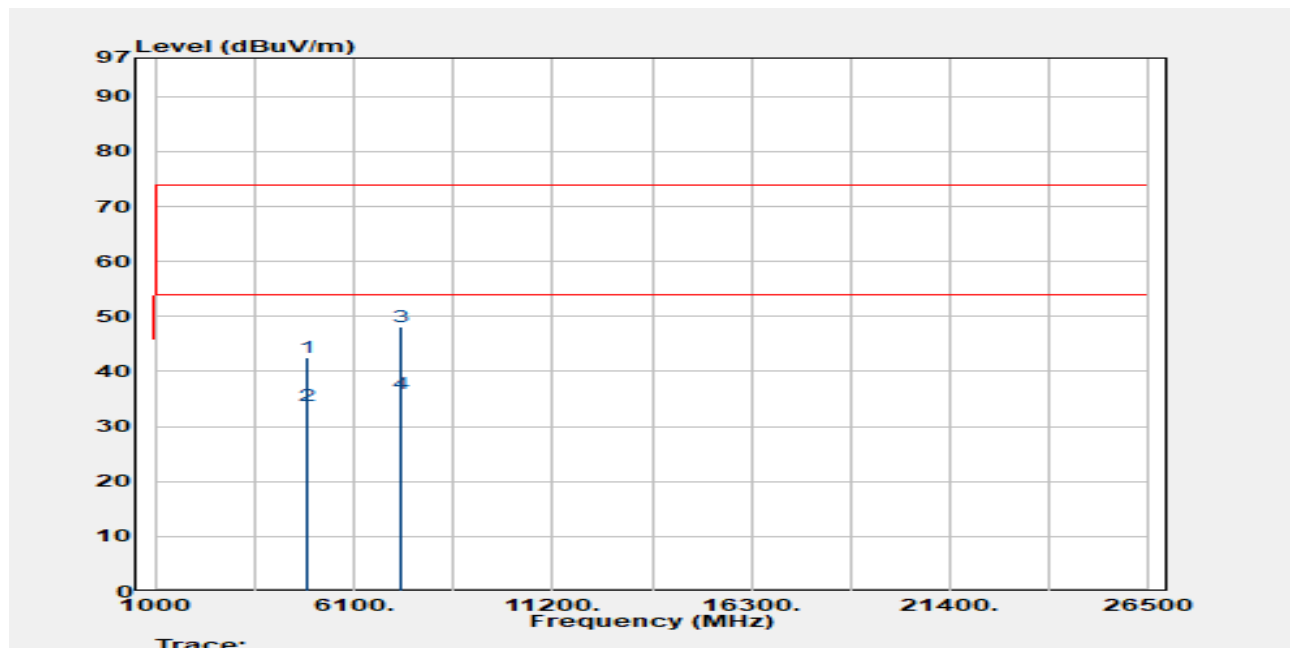
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.12	2.67	42.79	74.00	-31.21
4884.000	Average	31.14	2.67	33.81	54.00	-20.19
7326.000	Peak	38.22	7.71	45.93	74.00	-28.07
7326.000	Average	28.14	7.71	35.85	54.00	-18.15

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Report Number :TERF2211002257ER
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-10
Temp./Humi. :23.5/65
Antenna Pol. :Horizontal
Engineer :Ricky Chen



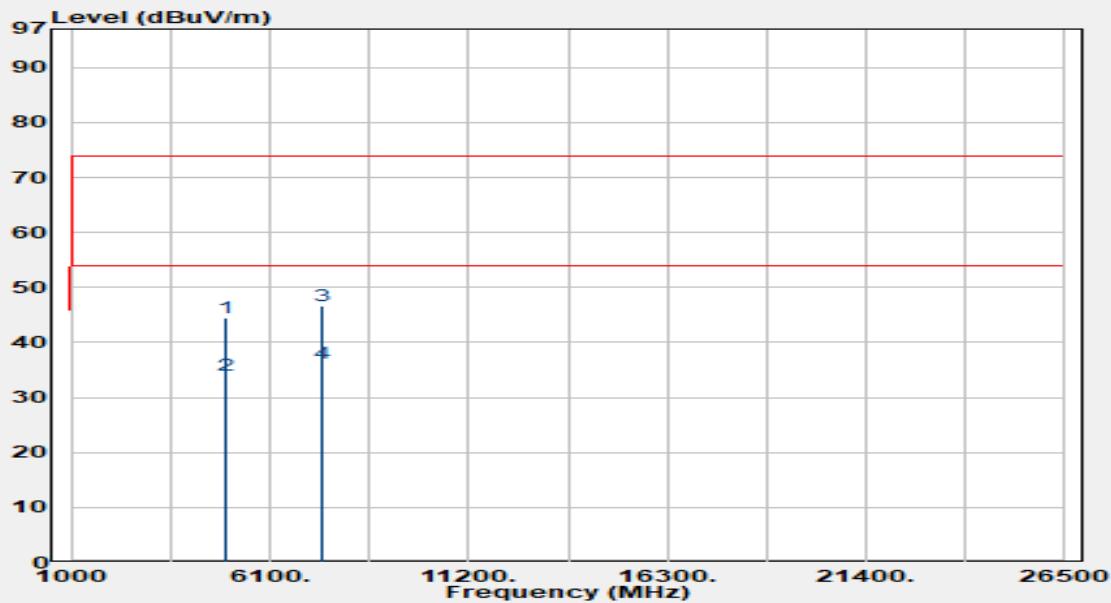
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	39.79	2.67	42.47	74.00	-31.53
4884.000	Average	31.05	2.67	33.72	54.00	-20.28
7326.000	Peak	40.40	7.71	48.12	74.00	-25.88
7326.000	Average	28.30	7.71	36.01	54.00	-17.99

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



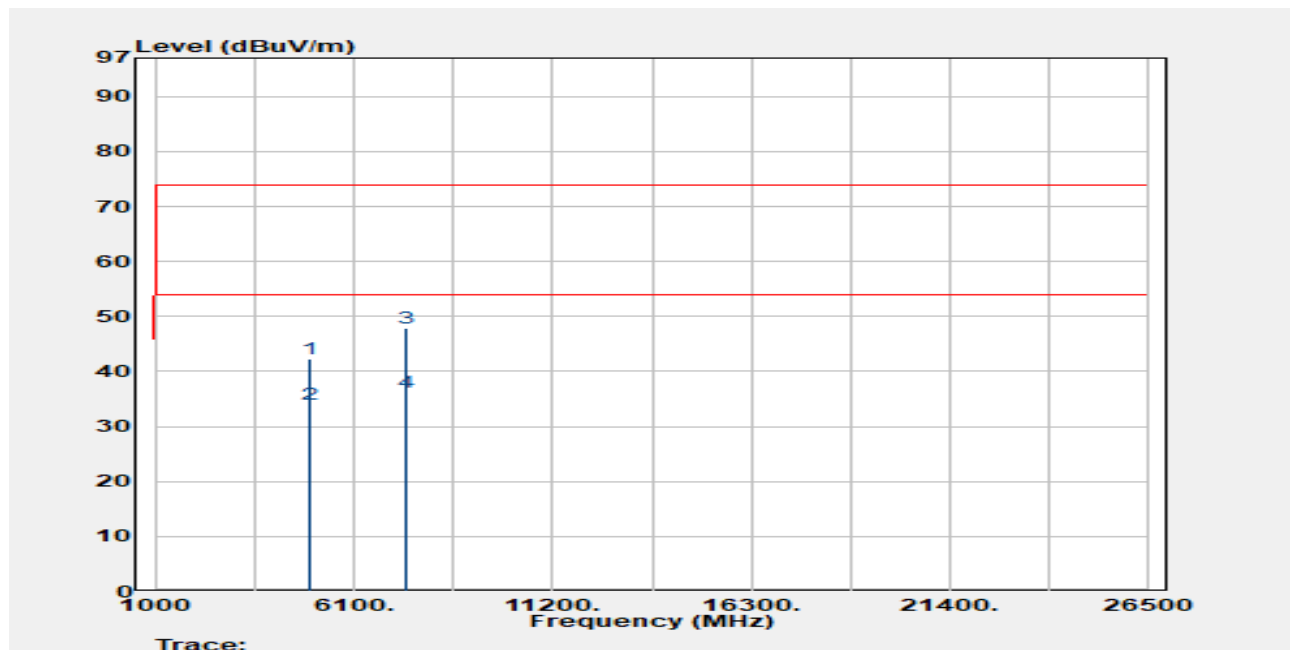
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	41.69	2.80	44.49	74.00	-29.51
4960.000	Average	31.23	2.80	34.03	54.00	-19.97
7440.000	Peak	38.76	7.97	46.73	74.00	-27.27
7440.000	Average	28.23	7.97	36.20	54.00	-17.80

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



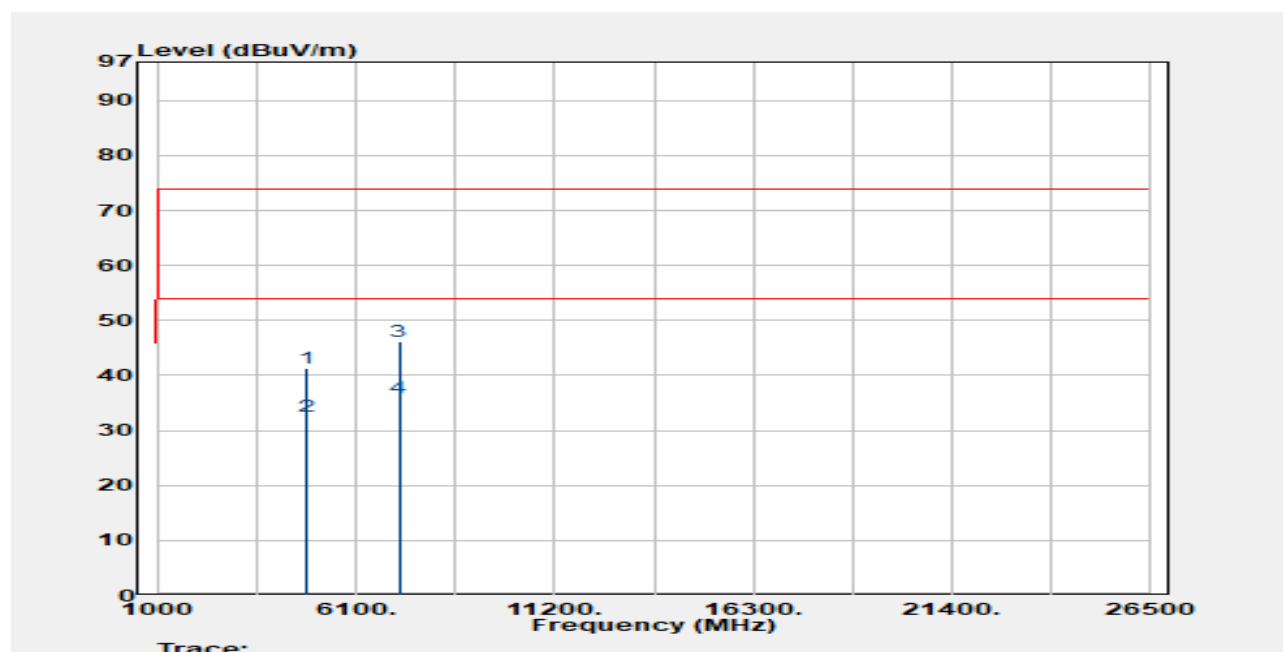
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	39.42	2.80	42.21	74.00	-31.79
4960.000	Average	31.19	2.80	33.99	54.00	-20.01
7440.000	Peak	39.80	7.97	47.77	74.00	-26.23
7440.000	Average	28.17	7.97	36.14	54.00	-17.86

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



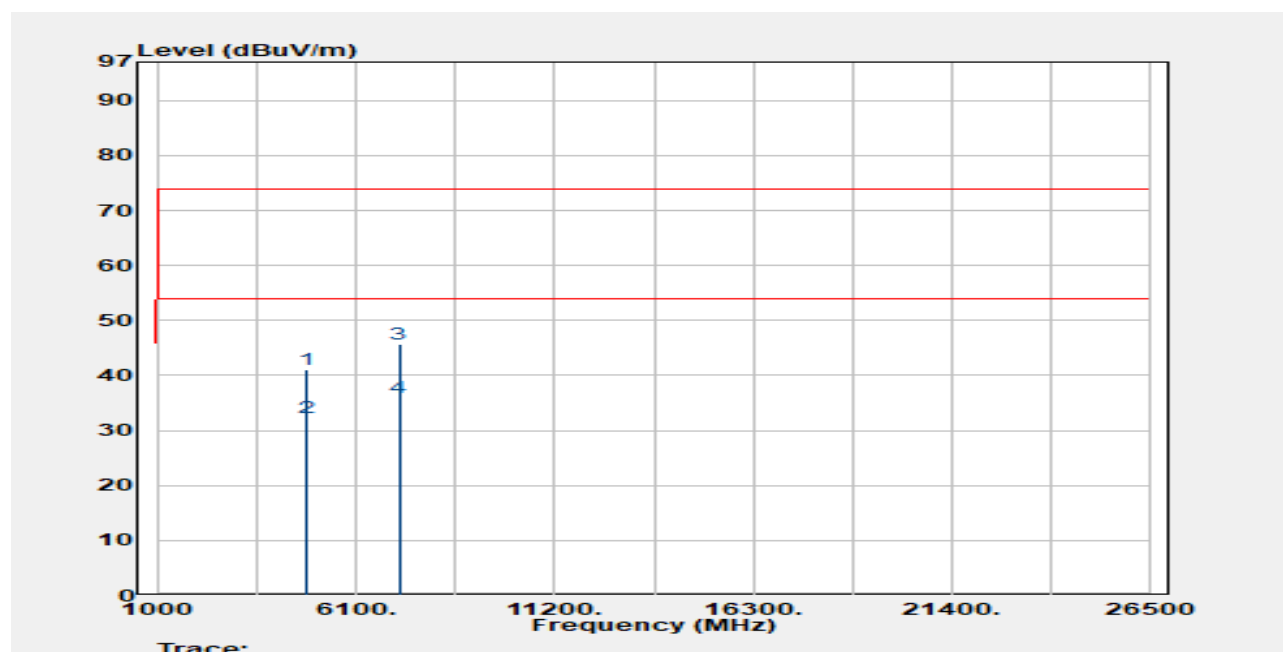
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	39.23	2.10	41.33	74.00	-32.67
4804.000	Average	30.44	2.10	32.54	54.00	-21.46
7206.000	Peak	38.71	7.56	46.27	74.00	-27.73
7206.000	Average	28.44	7.56	36.00	54.00	-18.00

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



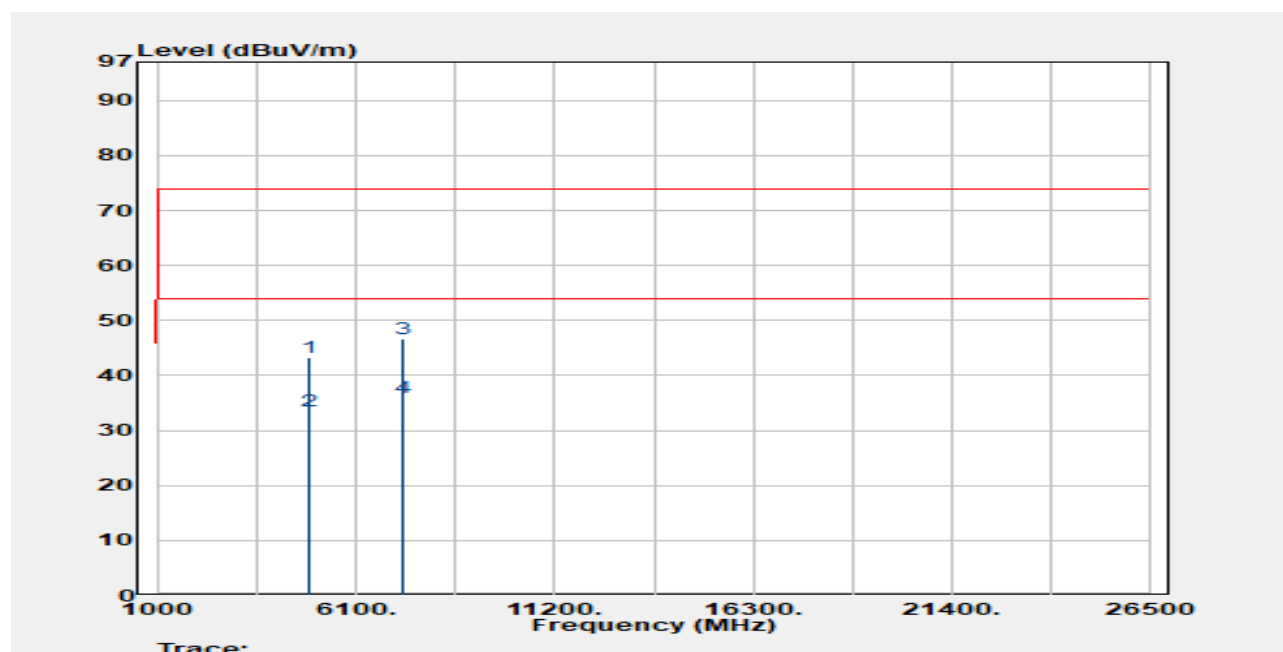
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	38.87	2.10	40.97	74.00	-33.03
4804.000	Average	30.33	2.10	32.43	54.00	-21.57
7206.000	Peak	38.14	7.56	45.70	74.00	-28.31
7206.000	Average	28.39	7.56	35.95	54.00	-18.05

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



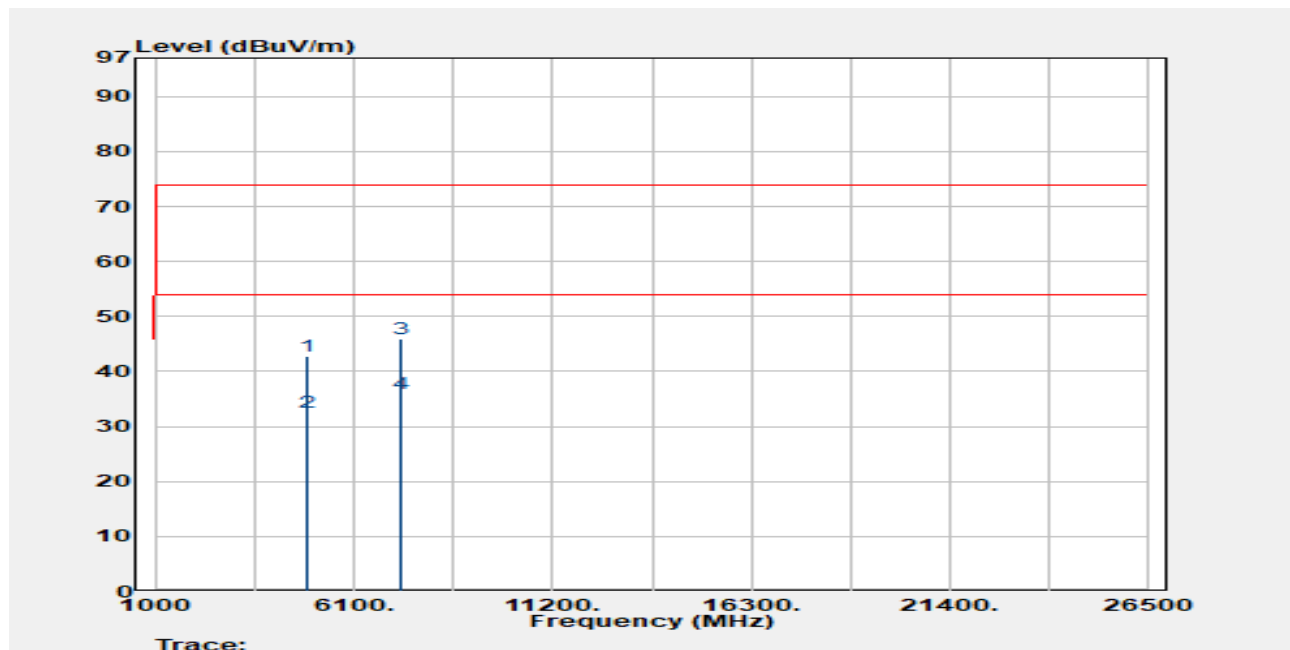
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.50	2.67	43.17	74.00	-30.83
4884.000	Average	30.81	2.67	33.48	54.00	-20.52
7326.000	Peak	38.99	7.71	46.70	74.00	-27.30
7326.000	Average	28.34	7.71	36.05	54.00	-17.95

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



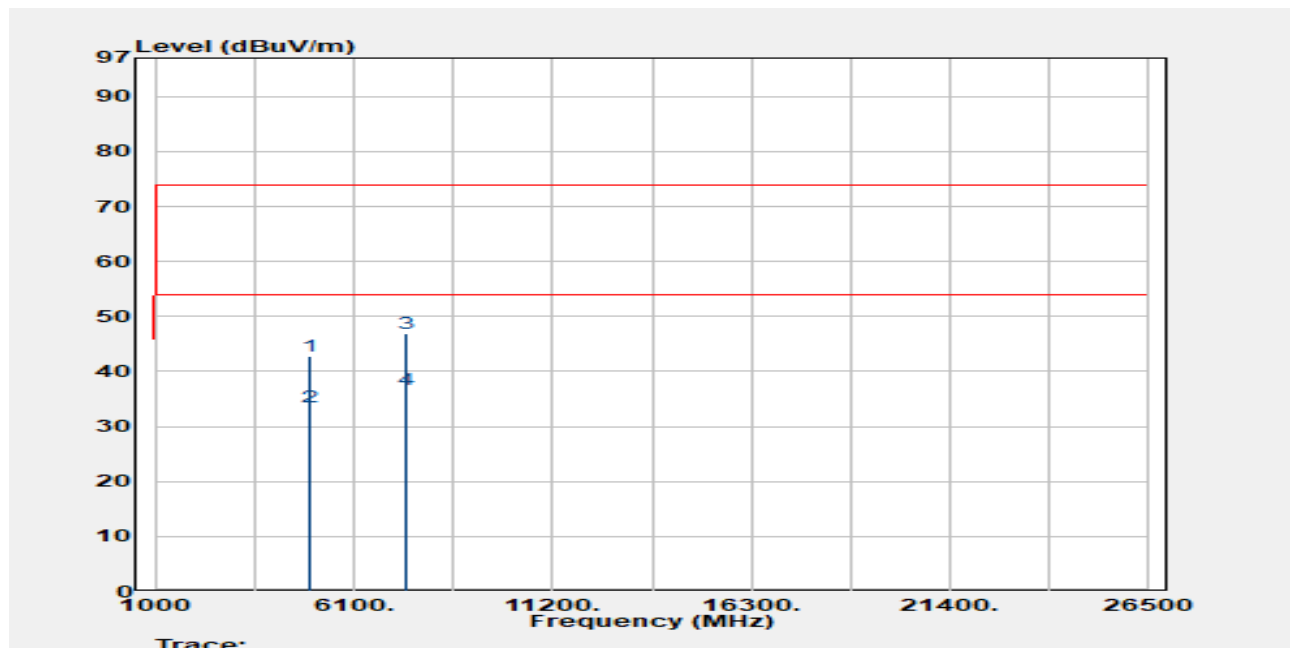
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.04	2.67	42.71	74.00	-31.29
4884.000	Average	29.98	2.67	32.65	54.00	-21.35
7326.000	Peak	38.20	7.71	45.91	74.00	-28.09
7326.000	Average	28.28	7.71	35.99	54.00	-18.01

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



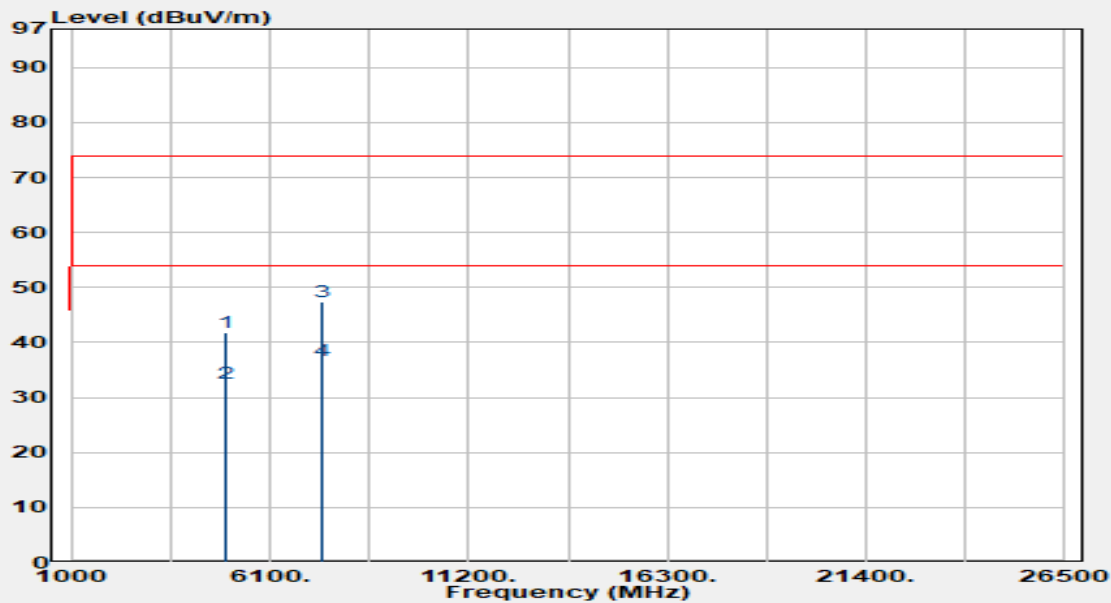
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	39.87	2.80	42.67	74.00	-31.33
4960.000	Average	30.72	2.80	33.52	54.00	-20.48
7440.000	Peak	38.83	7.97	46.80	74.00	-27.20
7440.000	Average	28.78	7.97	36.75	54.00	-17.25

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	39.10	2.80	41.90	74.00	-32.10
4960.000	Average	29.77	2.80	32.57	54.00	-21.43
7440.000	Peak	39.39	7.97	47.36	74.00	-26.64
7440.000	Average	28.69	7.97	36.66	54.00	-17.34

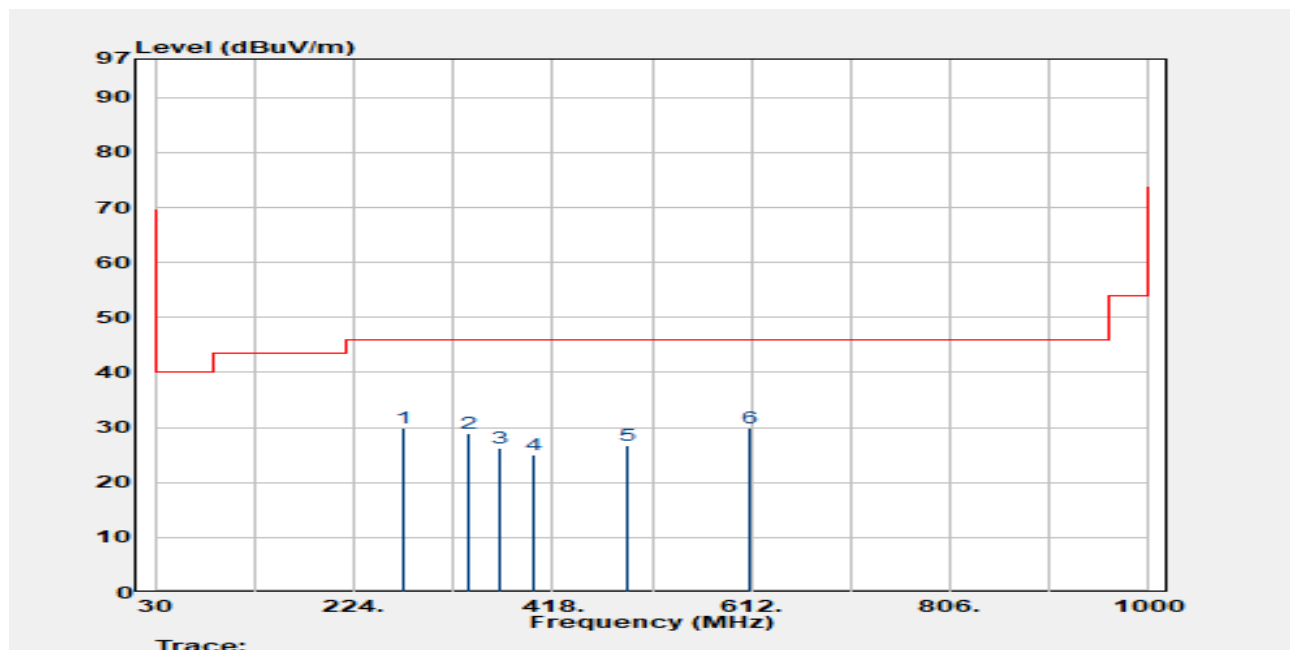
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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ANT0 (dipole)

Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



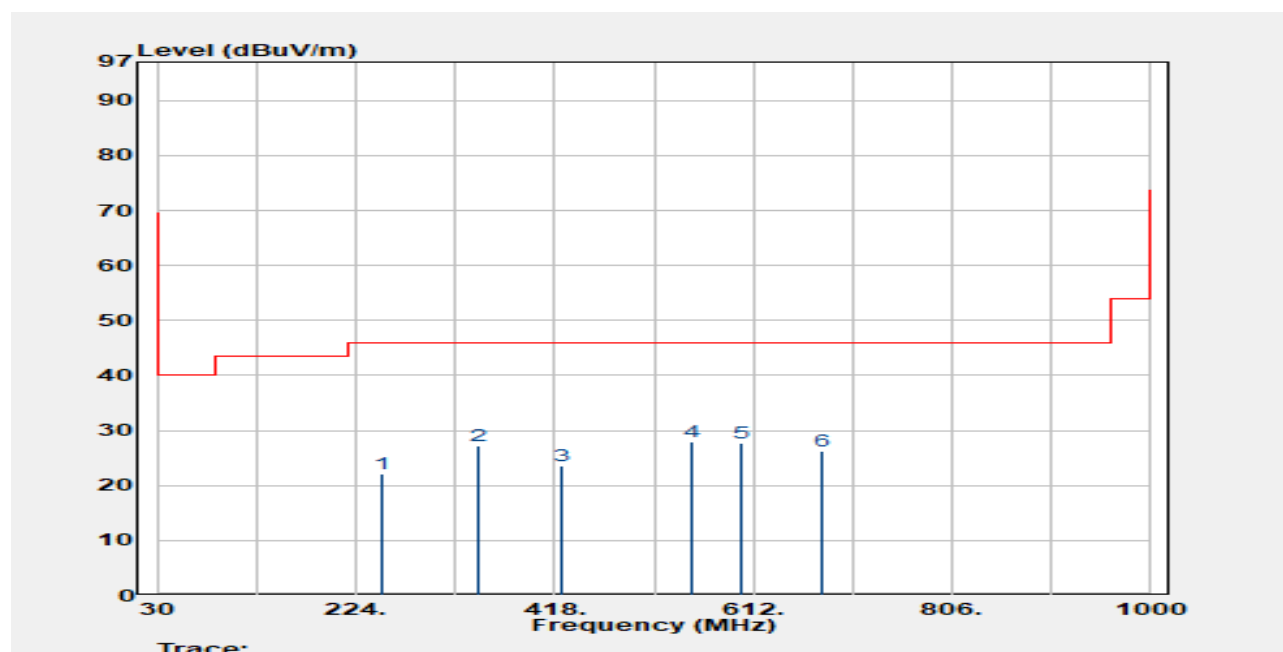
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
273.470	Peak	42.86	-12.97	29.89	46.00	-16.11
336.520	Peak	40.18	-11.14	29.03	46.00	-16.97
365.620	Peak	37.30	-10.99	26.30	46.00	-19.70
398.600	Peak	34.78	-9.77	25.01	46.00	-20.99
491.720	Peak	34.46	-7.84	26.62	46.00	-19.38
611.030	Peak	34.83	-4.82	30.02	46.00	-15.98

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



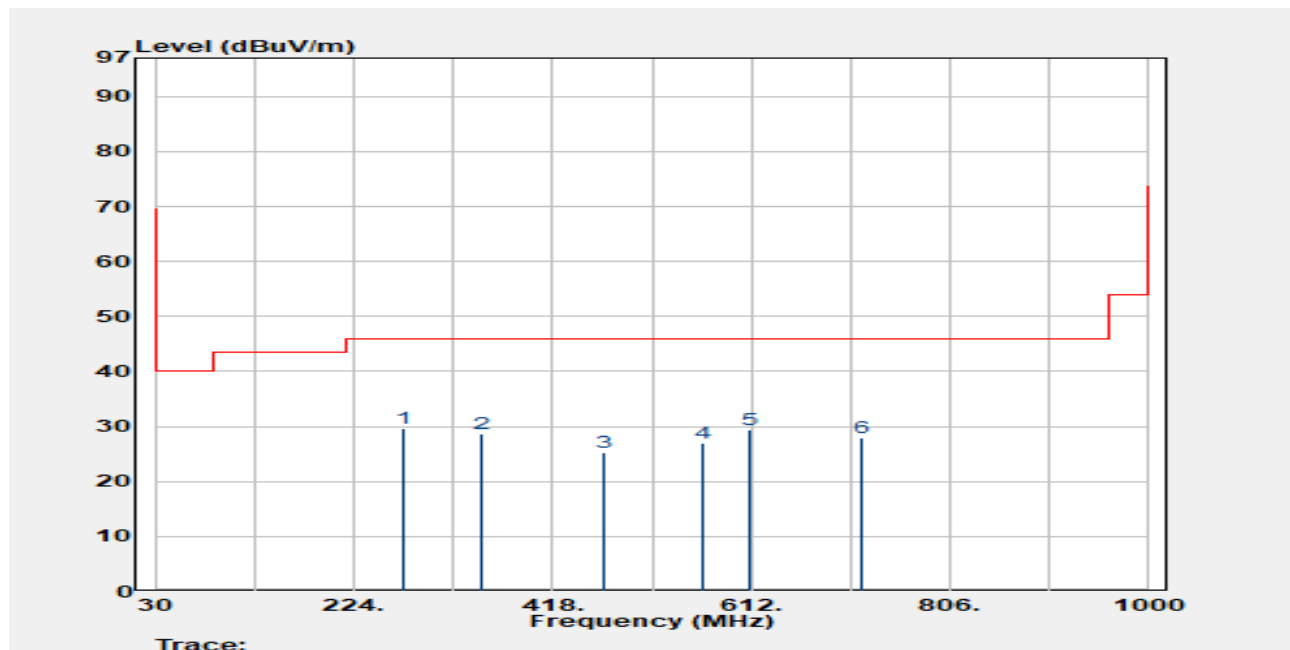
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
250.190	Peak	35.87	-13.63	22.24	46.00	-23.76
344.280	Peak	38.32	-11.11	27.21	46.00	-18.79
425.760	Peak	32.91	-9.22	23.69	46.00	-22.31
551.860	Peak	34.67	-6.76	27.91	46.00	-18.09
600.360	Peak	32.39	-4.78	27.61	46.00	-18.39
678.930	Peak	29.82	-3.55	26.27	46.00	-19.73

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



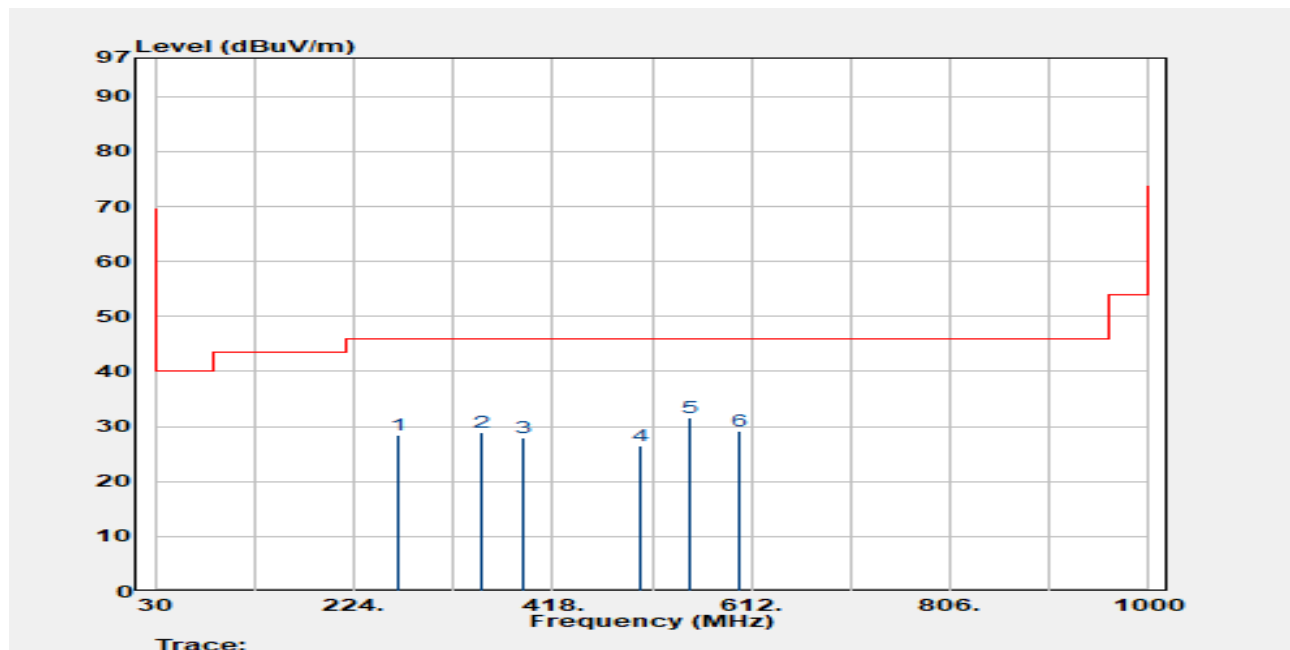
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
273.470	Peak	42.55	-12.97	29.58	46.00	-16.42
348.160	Peak	39.77	-11.19	28.58	46.00	-17.42
467.470	Peak	33.20	-8.03	25.17	46.00	-20.83
563.500	Peak	33.59	-6.52	27.07	46.00	-18.93
611.030	Peak	34.32	-4.82	29.50	46.00	-16.50
718.700	Peak	31.69	-3.64	28.05	46.00	-17.95

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



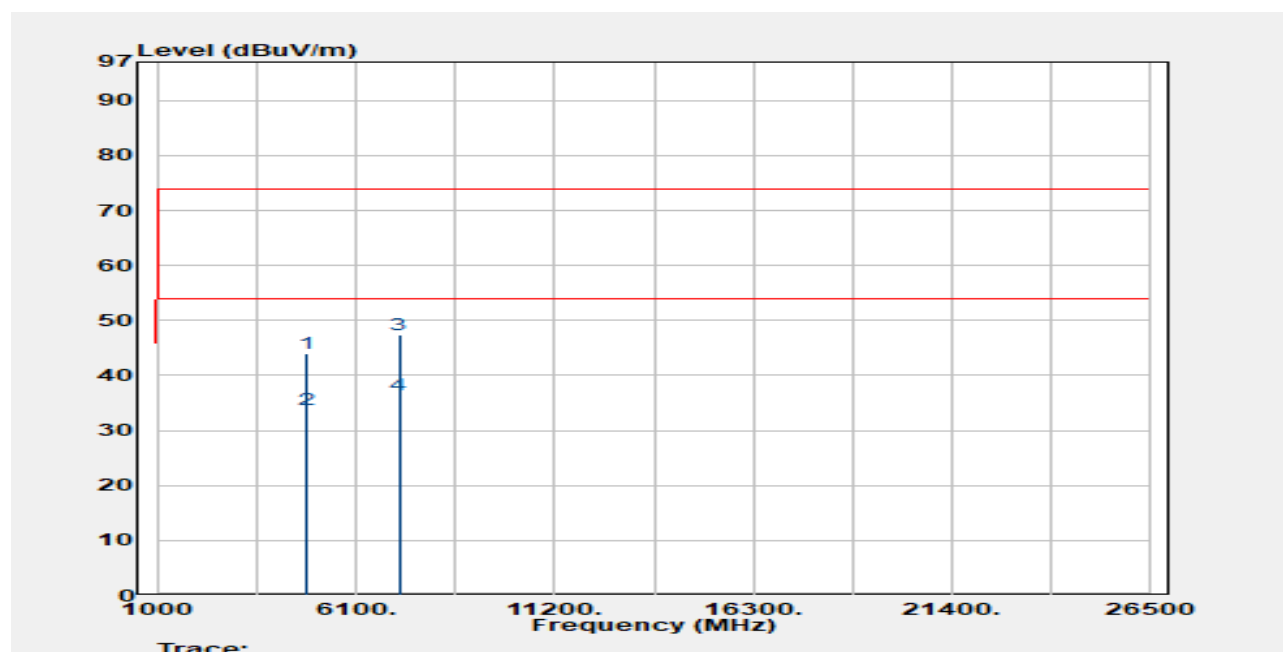
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
266.680	Peak	41.56	-13.15	28.41	46.00	-17.59
348.160	Peak	40.22	-11.19	29.04	46.00	-16.96
389.870	Peak	37.98	-9.95	28.03	46.00	-17.97
504.330	Peak	34.21	-7.68	26.52	46.00	-19.48
551.860	Peak	38.32	-6.76	31.56	46.00	-14.44
600.360	Peak	33.93	-4.78	29.15	46.00	-16.85

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



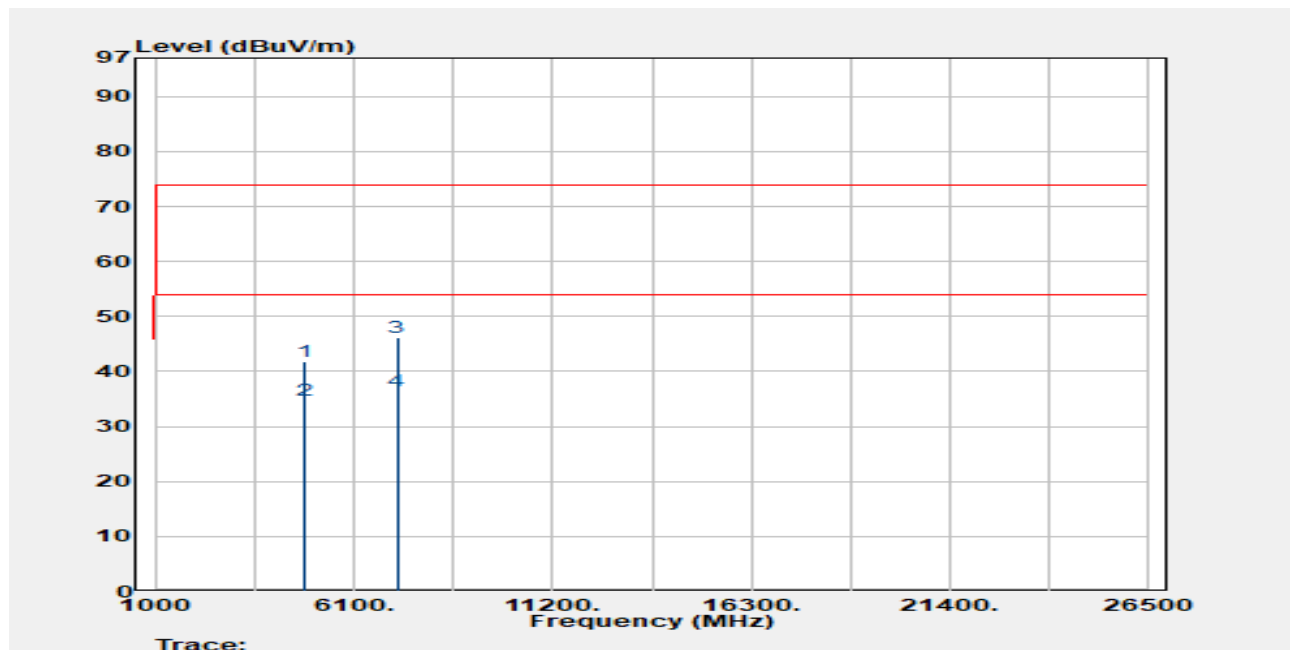
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	41.79	2.10	43.89	74.00	-30.11
4804.000	Average	31.64	2.10	33.74	54.00	-20.26
7206.000	Peak	39.92	7.56	47.47	74.00	-26.53
7206.000	Average	29.02	7.56	36.58	54.00	-17.42

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



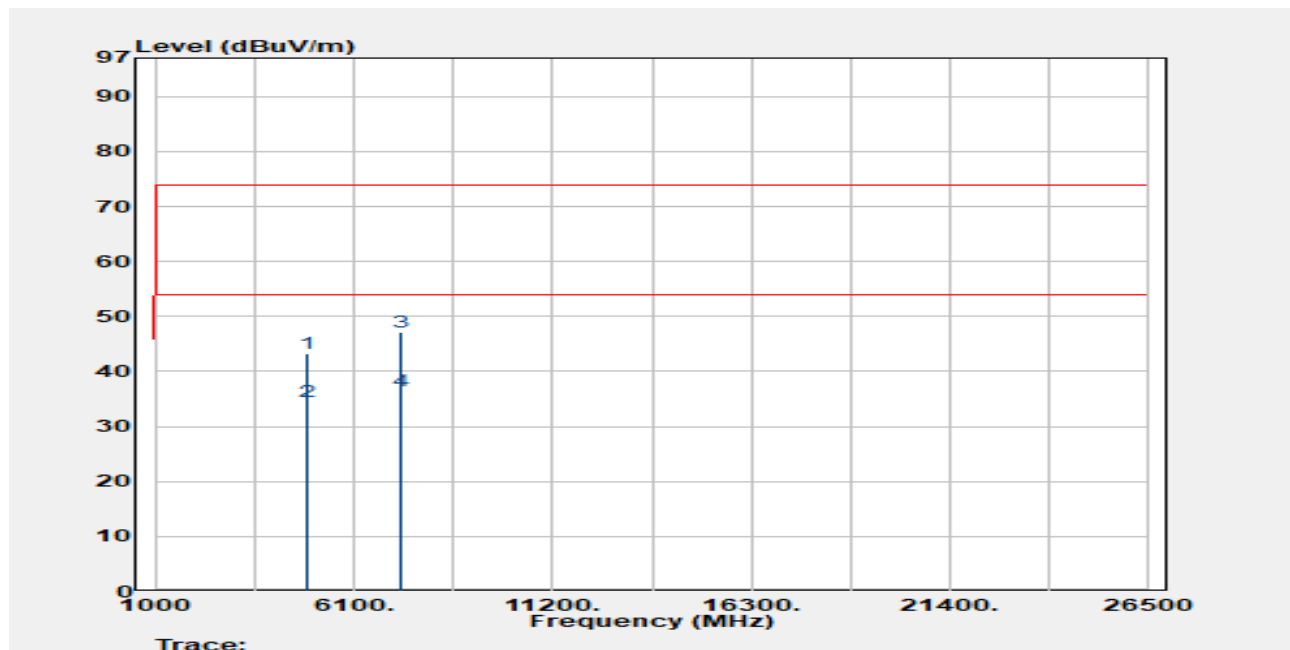
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	39.77	2.10	41.87	74.00	-32.13
4804.000	Average	32.56	2.10	34.66	54.00	-19.34
7206.000	Peak	38.69	7.56	46.25	74.00	-27.75
7206.000	Average	28.99	7.56	36.55	54.00	-17.45

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



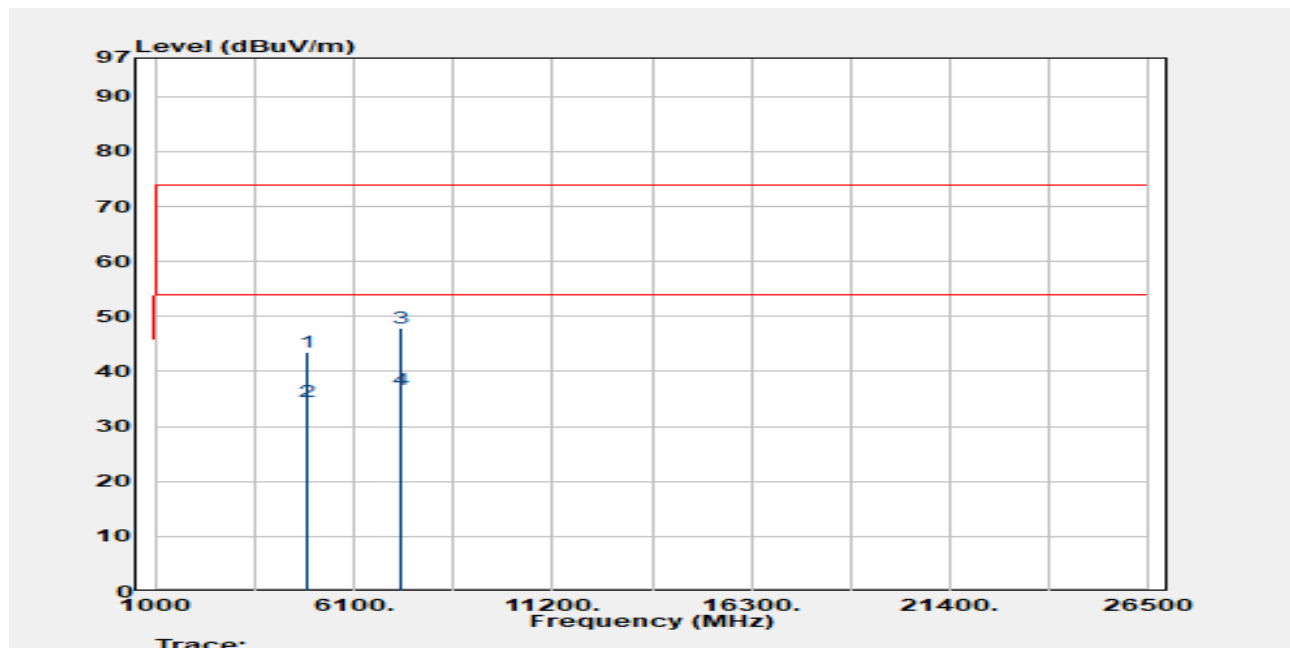
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.50	2.67	43.17	74.00	-30.83
4884.000	Average	31.95	2.67	34.62	54.00	-19.38
7326.000	Peak	39.34	7.71	47.05	74.00	-26.95
7326.000	Average	28.77	7.71	36.48	54.00	-17.52

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



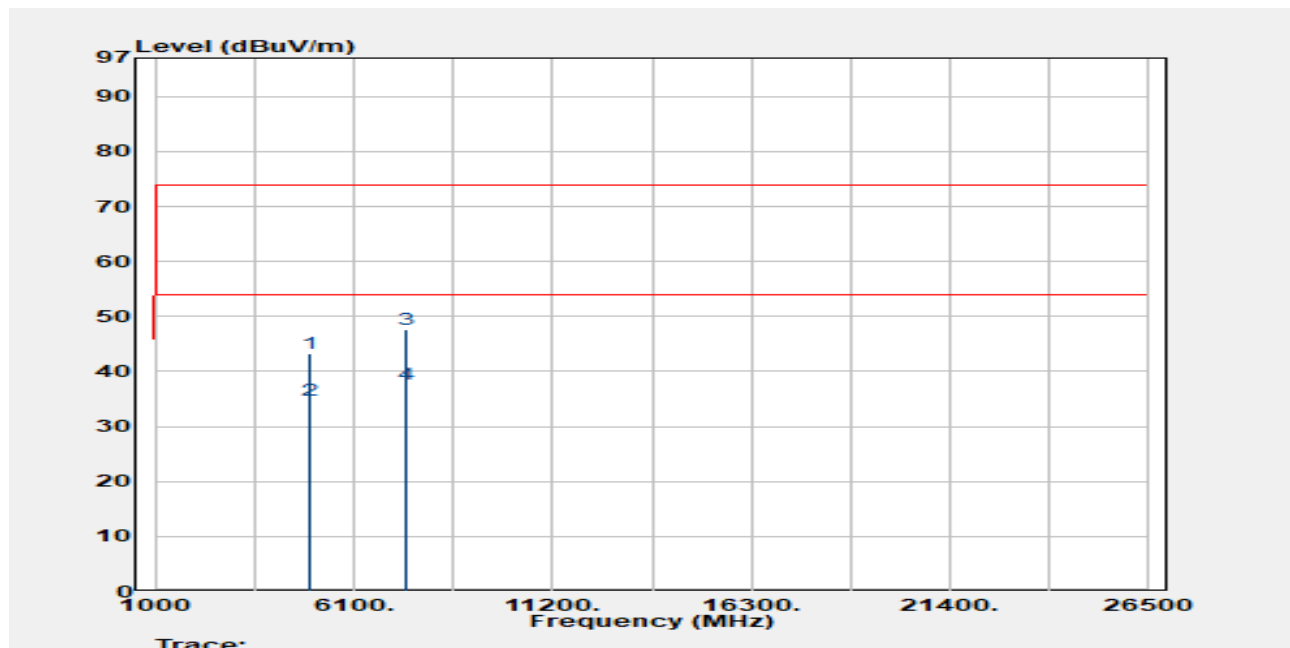
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.94	2.67	43.61	74.00	-30.39
4884.000	Average	31.96	2.67	34.63	54.00	-19.37
7326.000	Peak	40.11	7.71	47.82	74.00	-26.18
7326.000	Average	29.10	7.71	36.81	54.00	-17.19

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



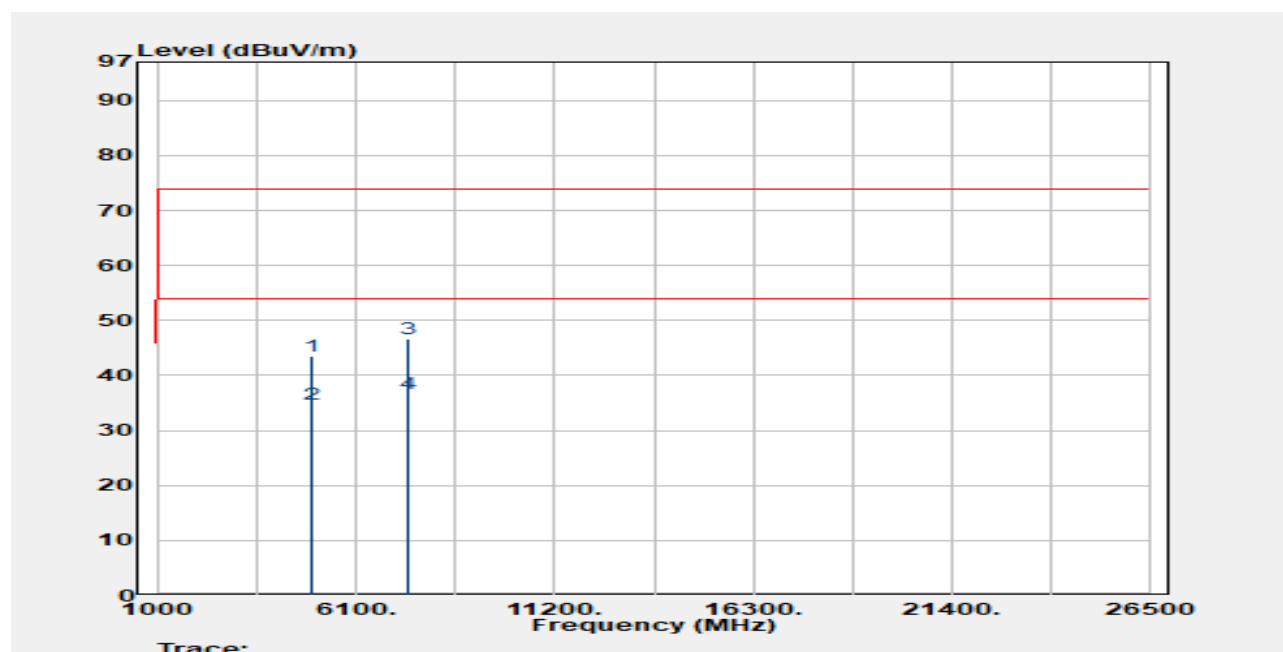
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	40.58	2.80	43.38	74.00	-30.62
4960.000	Average	31.99	2.80	34.79	54.00	-19.21
7440.000	Peak	39.79	7.97	47.77	74.00	-26.23
7440.000	Average	29.64	7.97	37.61	54.00	-16.39

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



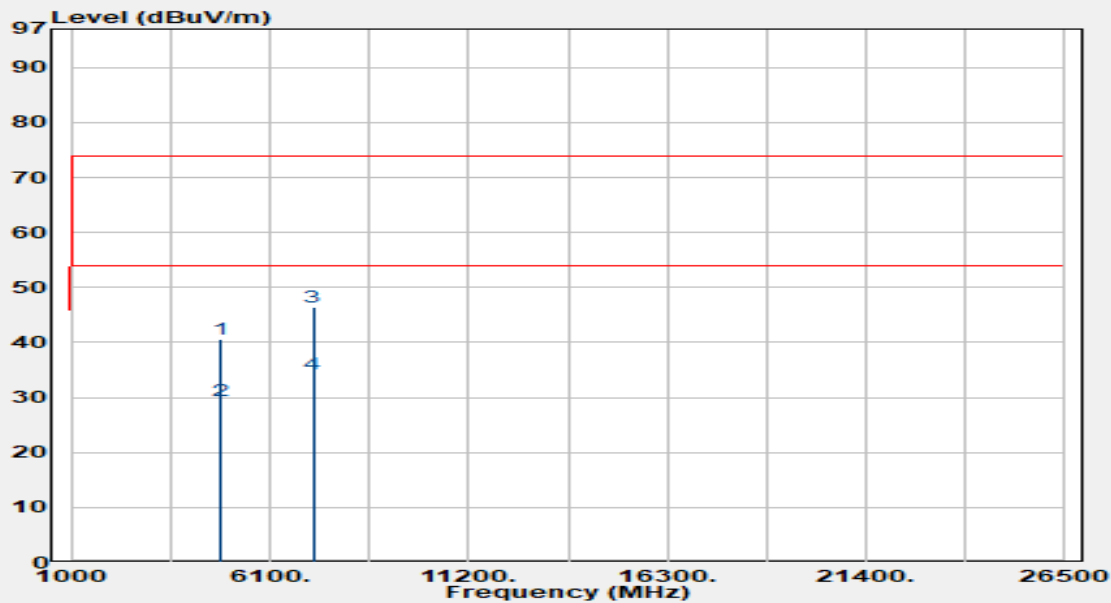
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	40.62	2.80	43.41	74.00	-30.59
4960.000	Average	32.01	2.80	34.81	54.00	-19.19
7440.000	Peak	38.82	7.97	46.79	74.00	-27.21
7440.000	Average	28.81	7.97	36.78	54.00	-17.22

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



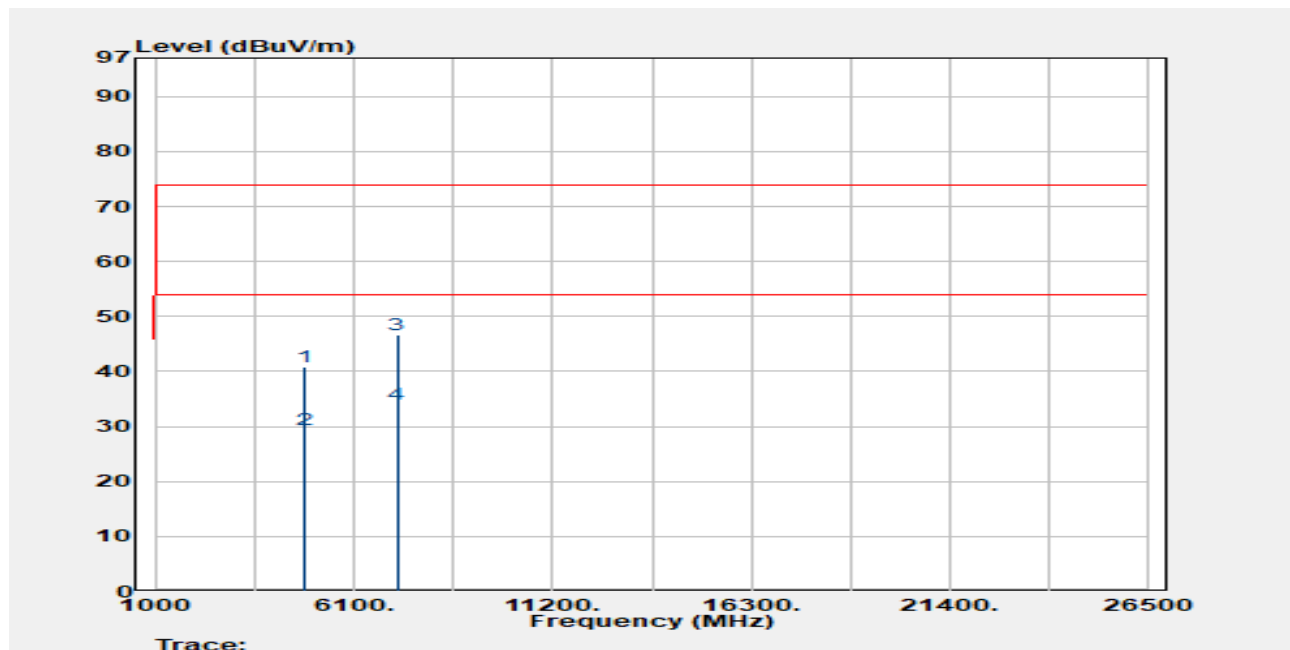
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	38.60	2.10	40.70	74.00	-33.30
4804.000	Average	27.42	2.10	29.52	54.00	-24.48
7206.000	Peak	38.87	7.56	46.43	74.00	-27.57
7206.000	Average	26.66	7.56	34.22	54.00	-19.78

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



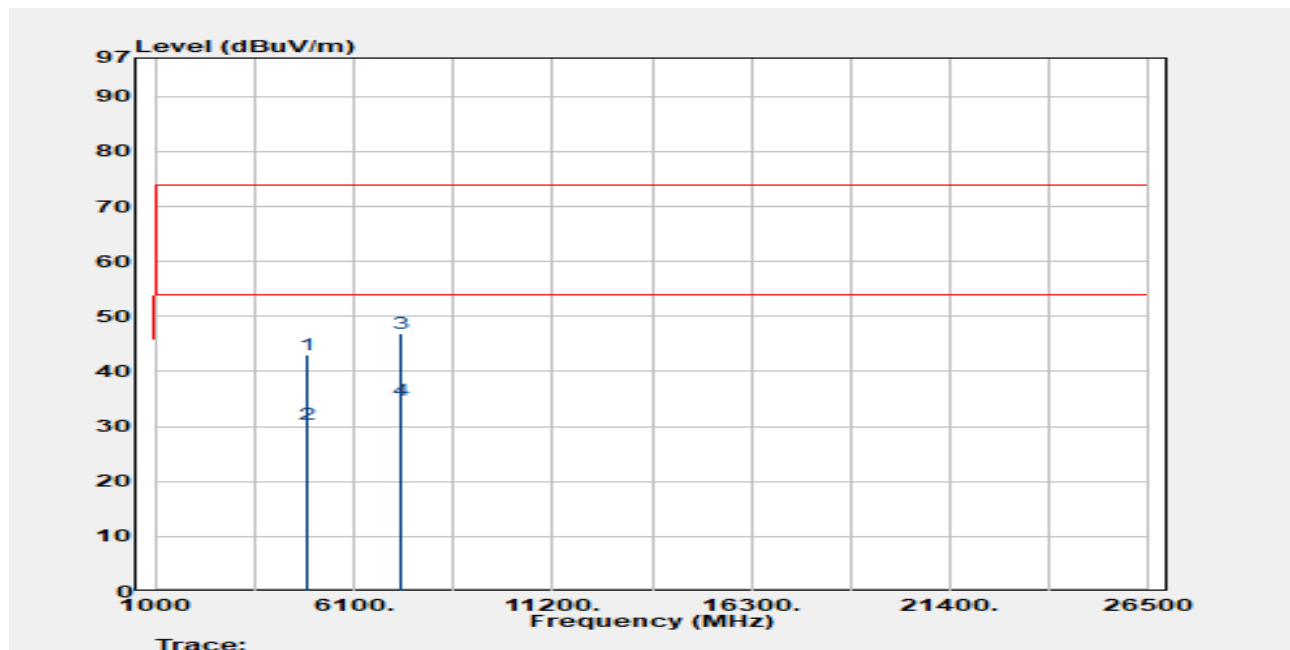
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	38.84	2.10	40.94	74.00	-33.06
4804.000	Average	27.36	2.10	29.46	54.00	-24.54
7206.000	Peak	39.23	7.56	46.79	74.00	-27.21
7206.000	Average	26.59	7.56	34.15	54.00	-19.85

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



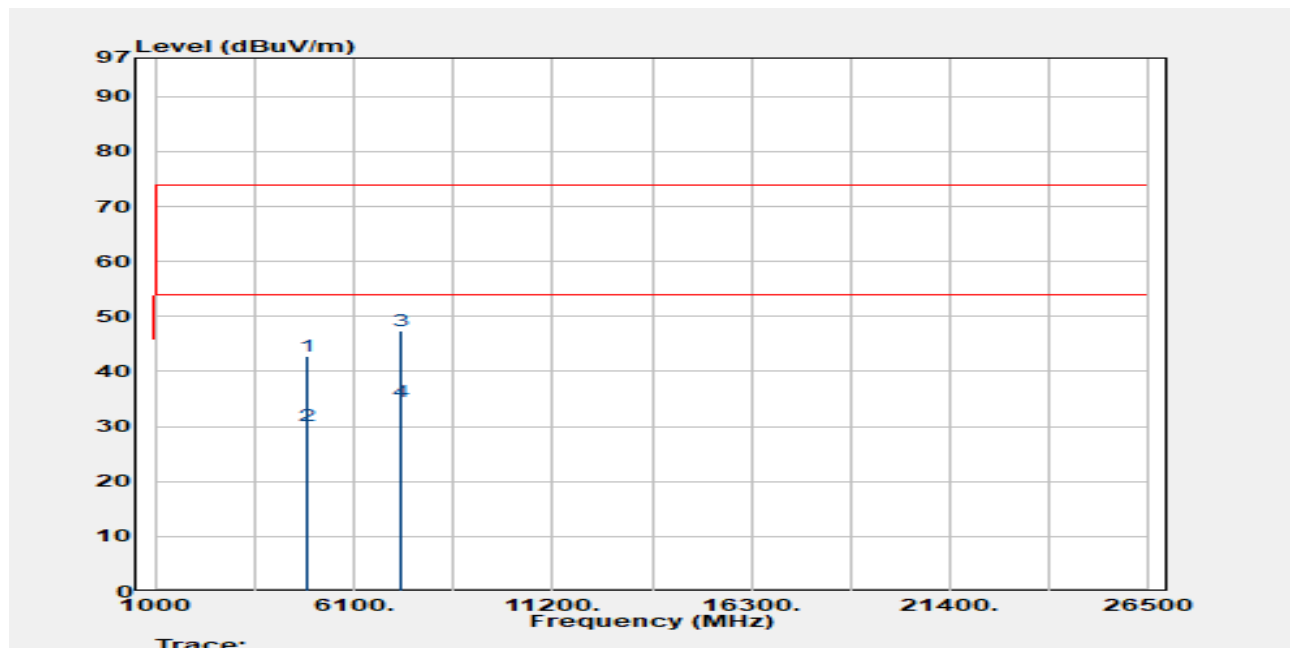
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.45	2.67	43.12	74.00	-30.88
4884.000	Average	27.77	2.67	30.44	54.00	-23.56
7326.000	Peak	39.29	7.71	47.01	74.00	-26.99
7326.000	Average	27.03	7.71	34.74	54.00	-19.26

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



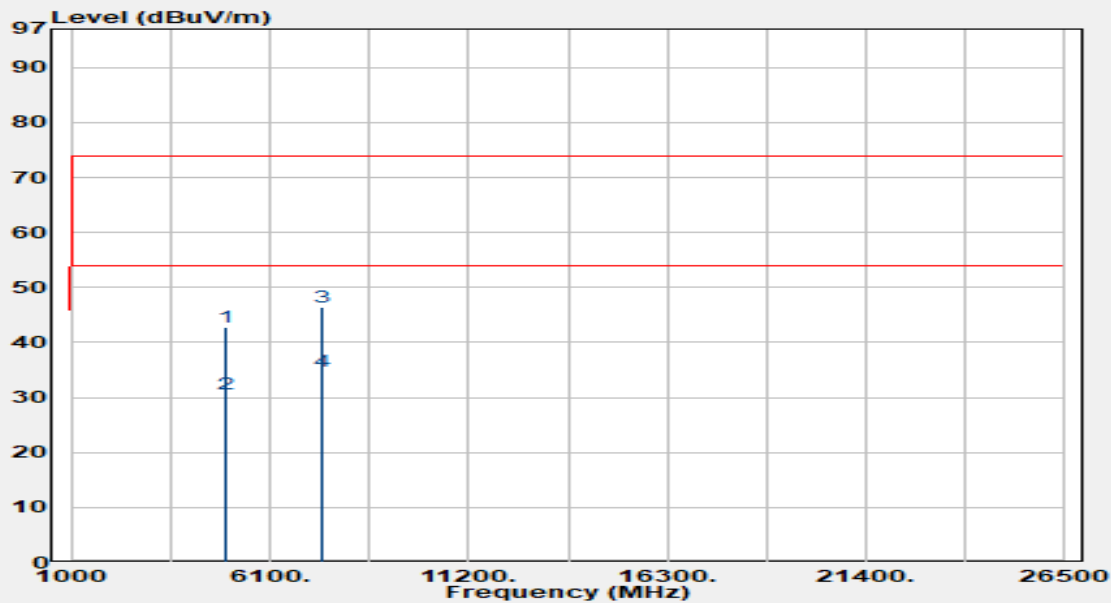
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	40.17	2.67	42.84	74.00	-31.16
4884.000	Average	27.54	2.67	30.21	54.00	-23.79
7326.000	Peak	39.64	7.71	47.35	74.00	-26.65
7326.000	Average	26.93	7.71	34.64	54.00	-19.36

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



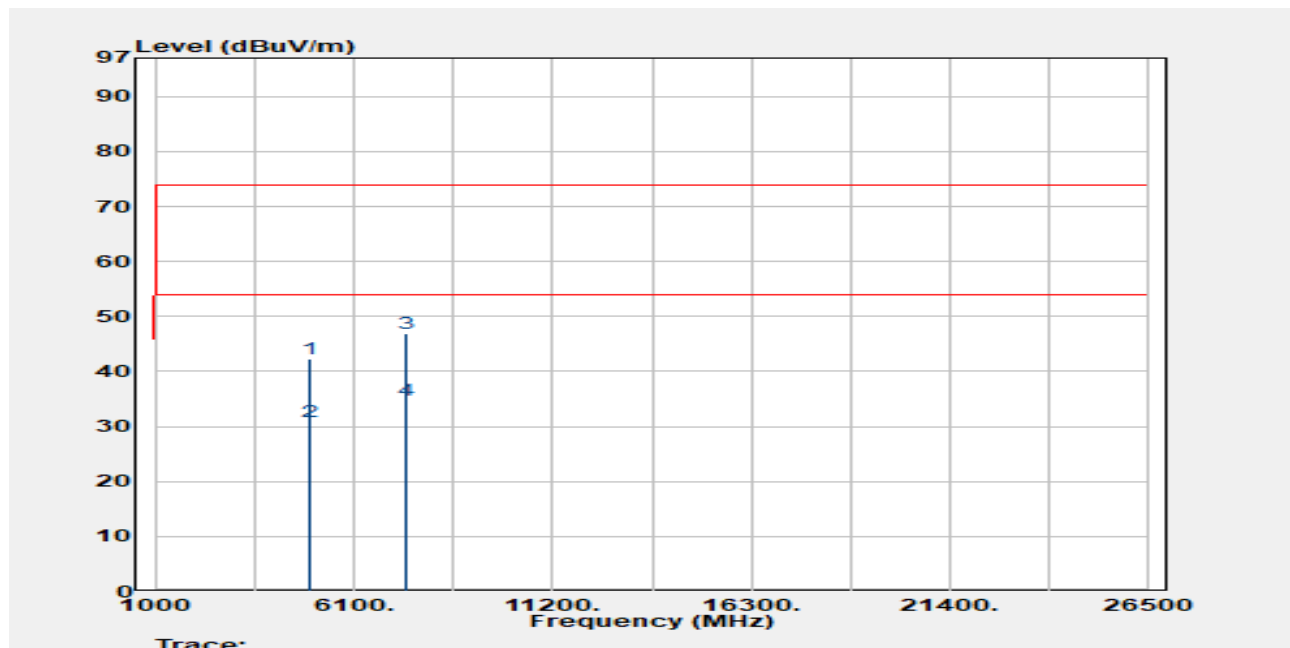
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	40.05	2.80	42.85	74.00	-31.15
4960.000	Average	27.79	2.80	30.59	54.00	-23.41
7440.000	Peak	38.45	7.97	46.42	74.00	-27.58
7440.000	Average	26.79	7.97	34.76	54.00	-19.24

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	39.49	2.80	42.29	74.00	-31.71
4960.000	Average	27.96	2.80	30.76	54.00	-23.24
7440.000	Peak	38.83	7.97	46.80	74.00	-27.20
7440.000	Average	26.75	7.97	34.72	54.00	-19.28

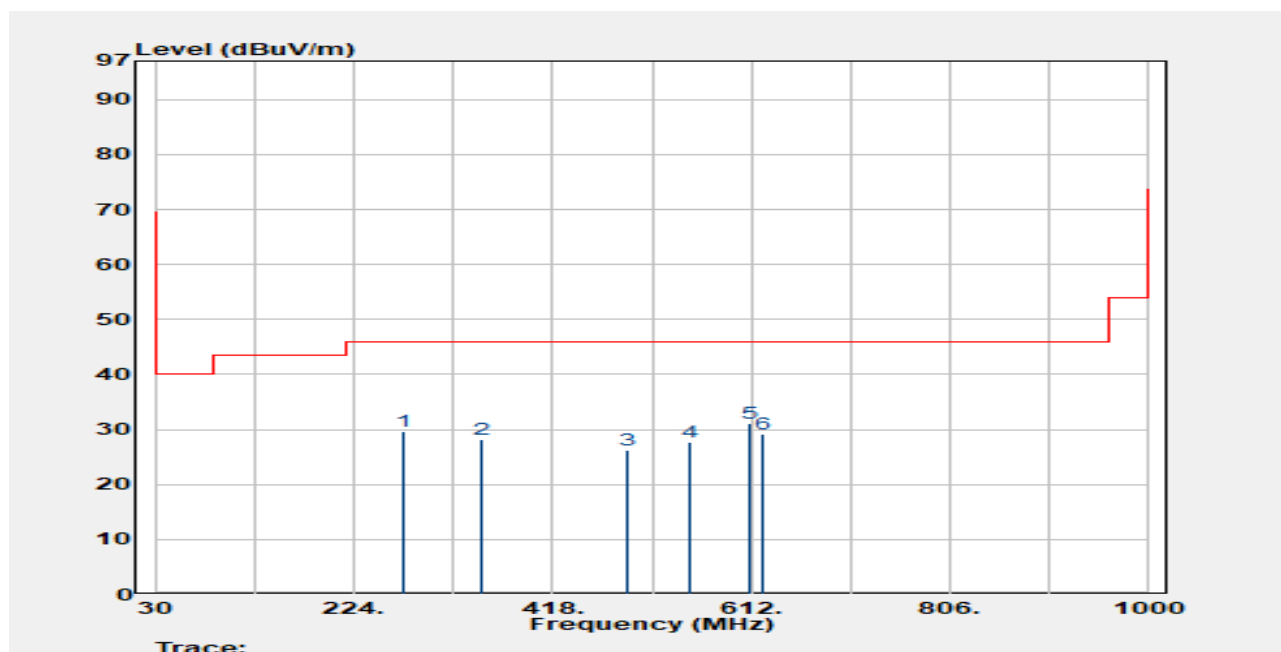
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BT_ANT (dipole)

Report Number :TERF2211002257ER
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-10
Temp./Humi. :23.5/65
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
273.470	Peak	42.54	-12.97	29.57	46.00	-16.43
348.160	Peak	39.42	-11.19	28.24	46.00	-17.76
491.720	Peak	34.02	-7.84	26.18	46.00	-19.82
551.860	Peak	34.58	-6.76	27.82	46.00	-18.18
611.030	Peak	35.85	-4.82	31.03	46.00	-14.97
622.670	Peak	34.33	-5.20	29.12	46.00	-16.88

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

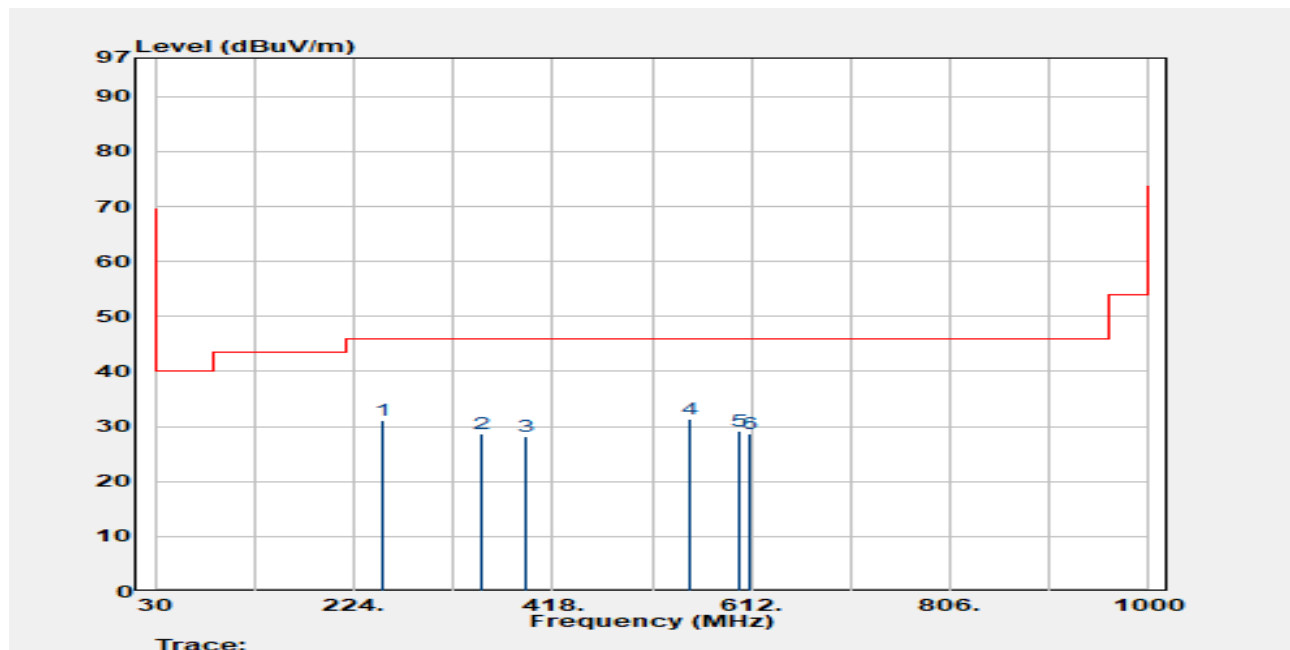
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



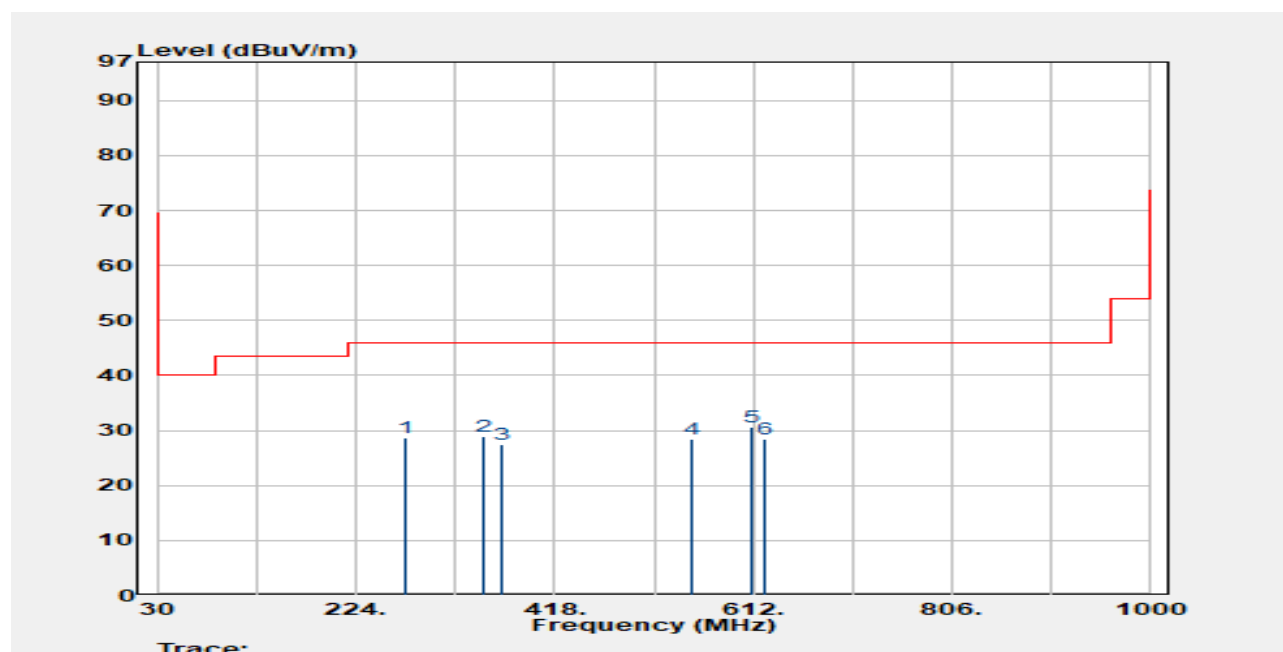
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
252.130	Peak	44.67	-13.63	31.04	46.00	-14.96
348.160	Peak	39.95	-11.19	28.76	46.00	-17.24
392.780	Peak	38.18	-9.91	28.27	46.00	-17.73
551.860	Peak	38.15	-6.76	31.39	46.00	-14.61
600.360	Peak	33.94	-4.78	29.16	46.00	-16.84
611.030	Peak	33.56	-4.82	28.74	46.00	-17.26

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



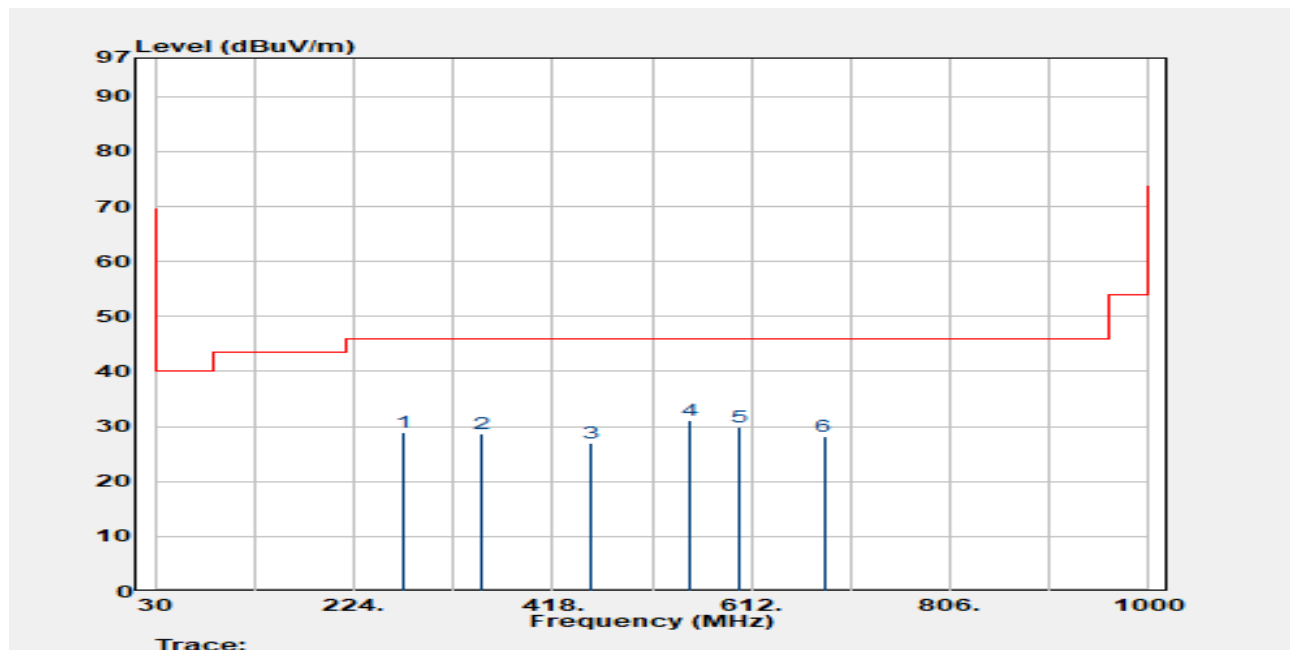
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
273.470	Peak	41.70	-12.97	28.73	46.00	-17.27
348.160	Peak	40.05	-11.19	28.86	46.00	-17.14
365.620	Peak	38.45	-10.99	27.46	46.00	-18.54
551.860	Peak	35.27	-6.76	28.51	46.00	-17.49
611.030	Peak	35.38	-4.82	30.56	46.00	-15.44
622.670	Peak	33.56	-5.20	28.35	46.00	-17.65

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
273.470	Peak	41.86	-12.97	28.89	46.00	-17.11
348.160	Peak	39.78	-11.19	28.60	46.00	-17.40
455.830	Peak	35.13	-8.13	27.00	46.00	-19.00
551.860	Peak	37.89	-6.76	31.14	46.00	-14.86
600.360	Peak	34.79	-4.78	30.01	46.00	-15.99
682.810	Peak	31.63	-3.50	28.12	46.00	-17.88

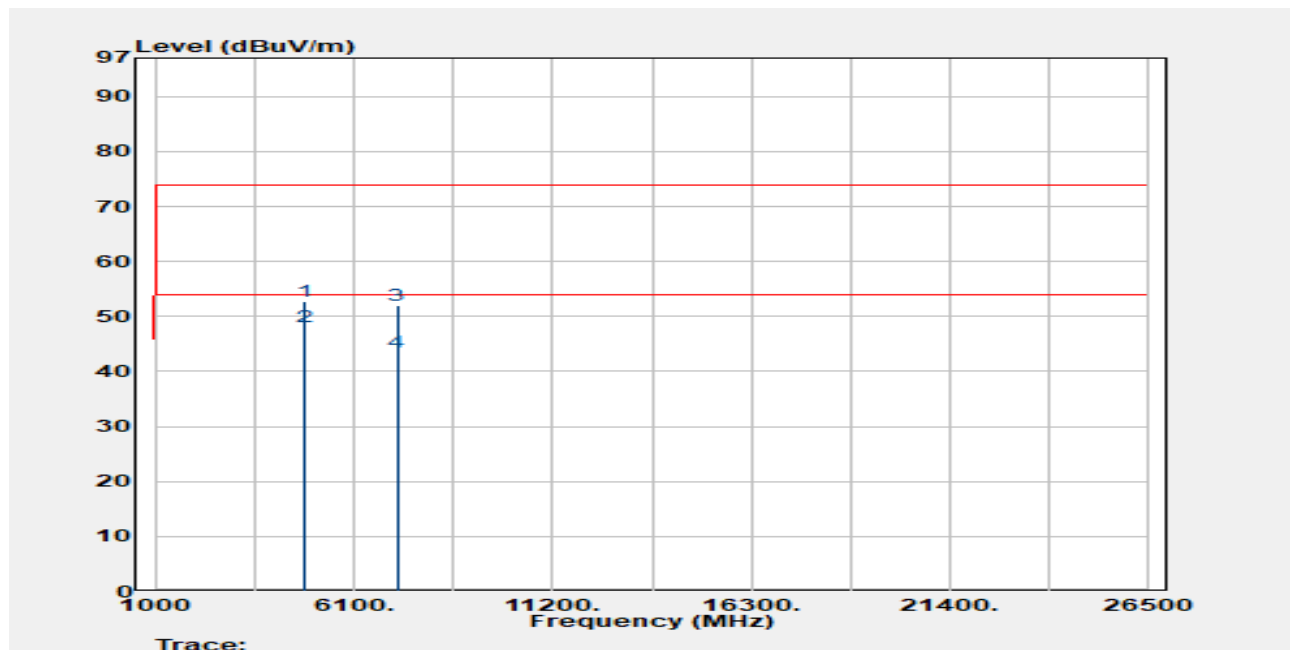
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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



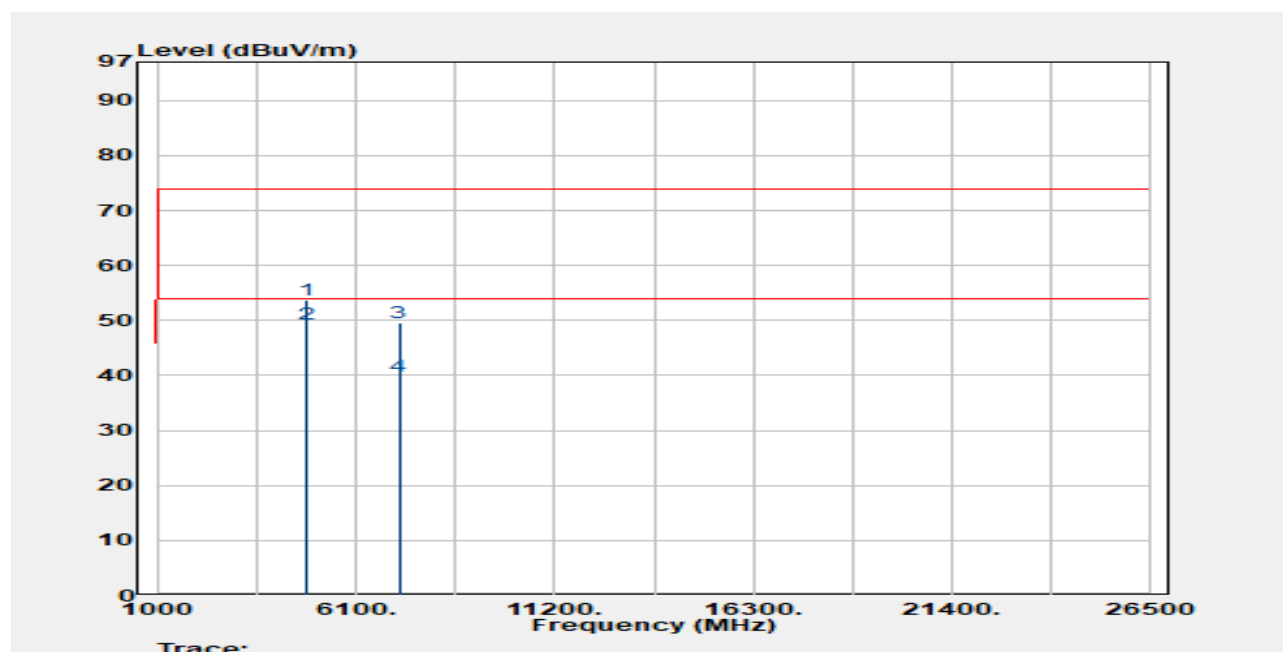
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	50.74	2.10	52.84	74.00	-21.16
4804.000	Average	45.95	2.10	48.05	54.00	-5.95
7206.000	Peak	44.39	7.56	51.95	74.00	-22.05
7206.000	Average	35.95	7.56	43.51	54.00	-10.49

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



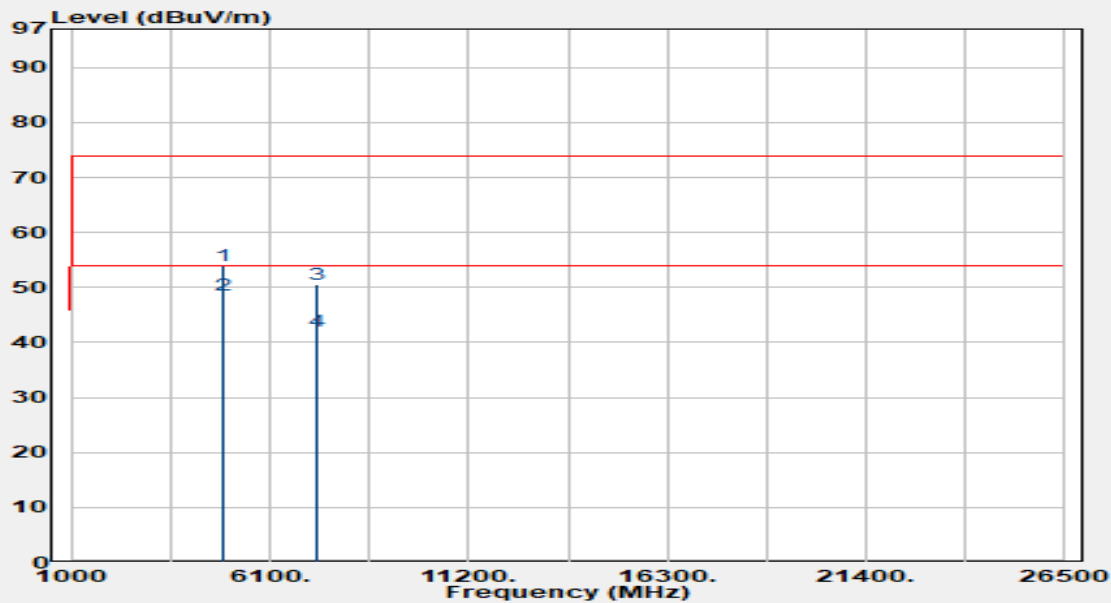
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	51.67	2.10	53.77	74.00	-20.23
4804.000	Average	47.27	2.10	49.37	54.00	-4.63
7206.000	Peak	42.15	7.56	49.71	74.00	-24.29
7206.000	Average	32.34	7.56	39.90	54.00	-14.10

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



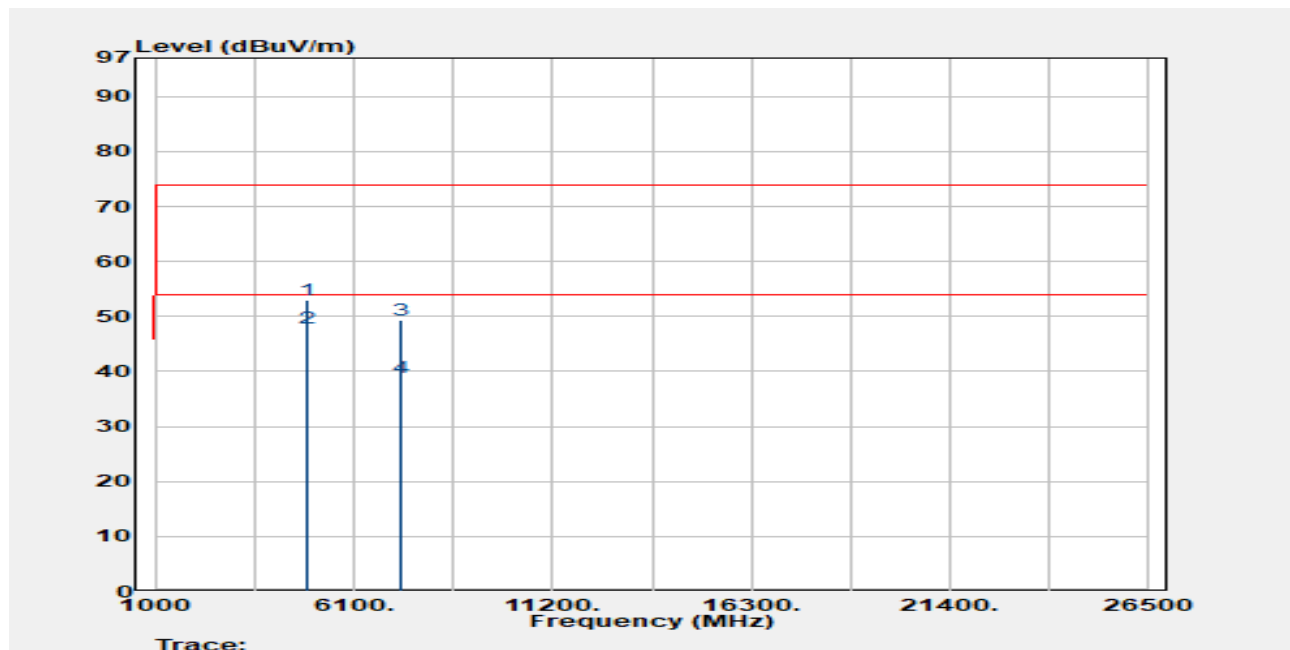
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	51.24	2.67	53.91	74.00	-20.09
4884.000	Average	45.87	2.67	48.54	54.00	-5.46
7326.000	Peak	42.84	7.71	50.55	74.00	-23.45
7326.000	Average	34.38	7.71	42.09	54.00	-11.91

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



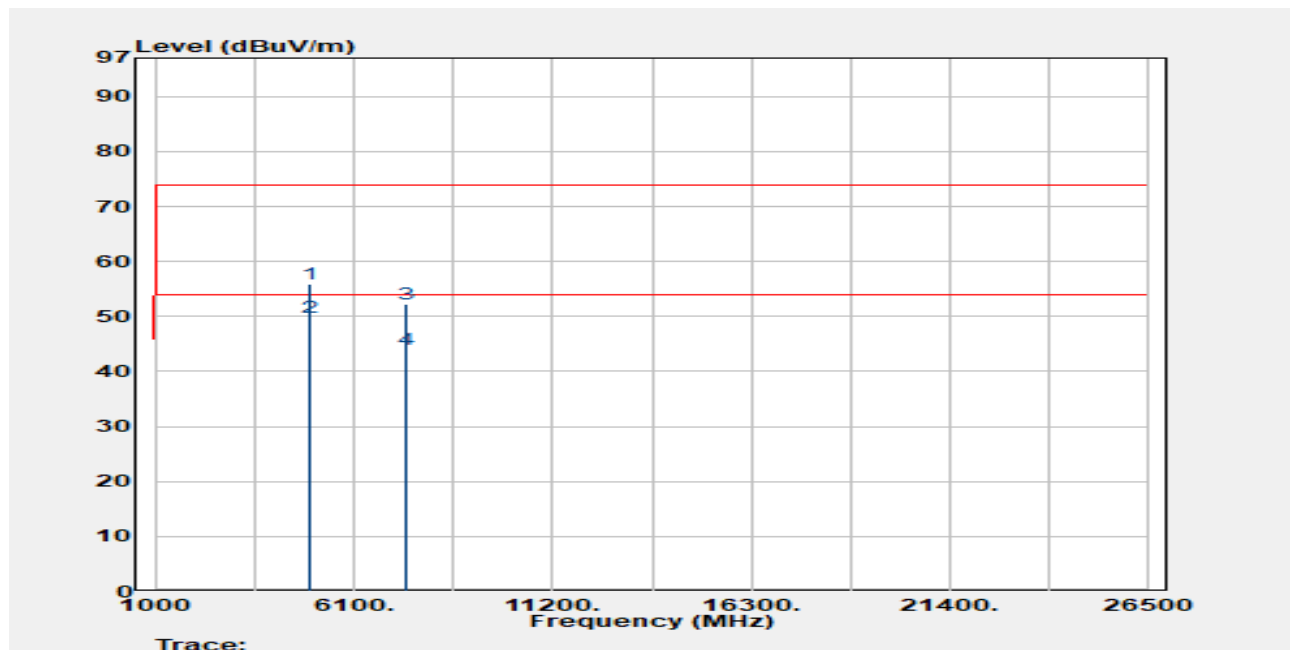
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	50.44	2.67	53.11	74.00	-20.89
4884.000	Average	45.32	2.67	47.99	54.00	-6.01
7326.000	Peak	41.61	7.71	49.32	74.00	-24.68
7326.000	Average	31.14	7.71	38.85	54.00	-15.15

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Report Number :TERF2211002257ER
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



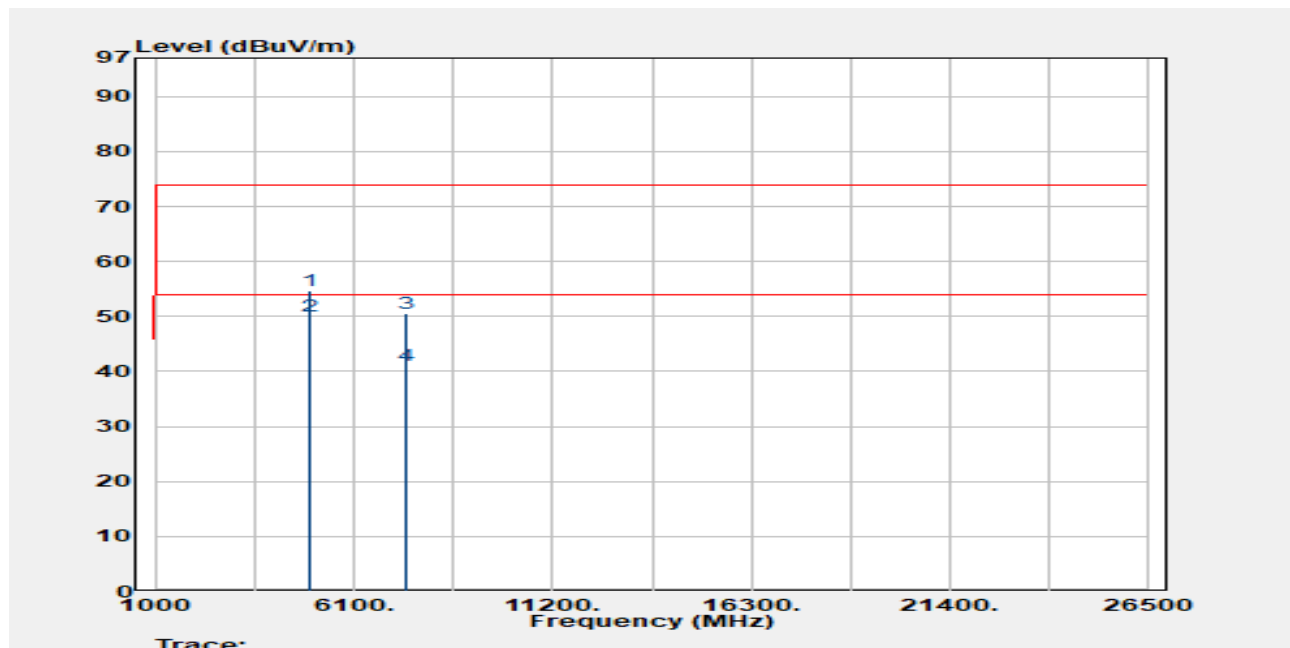
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	53.02	2.80	55.82	74.00	-18.18
4960.000	Average	46.96	2.80	49.76	54.00	-4.24
7440.000	Peak	44.28	7.97	52.25	74.00	-21.75
7440.000	Average	35.93	7.97	43.90	54.00	-10.10

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 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



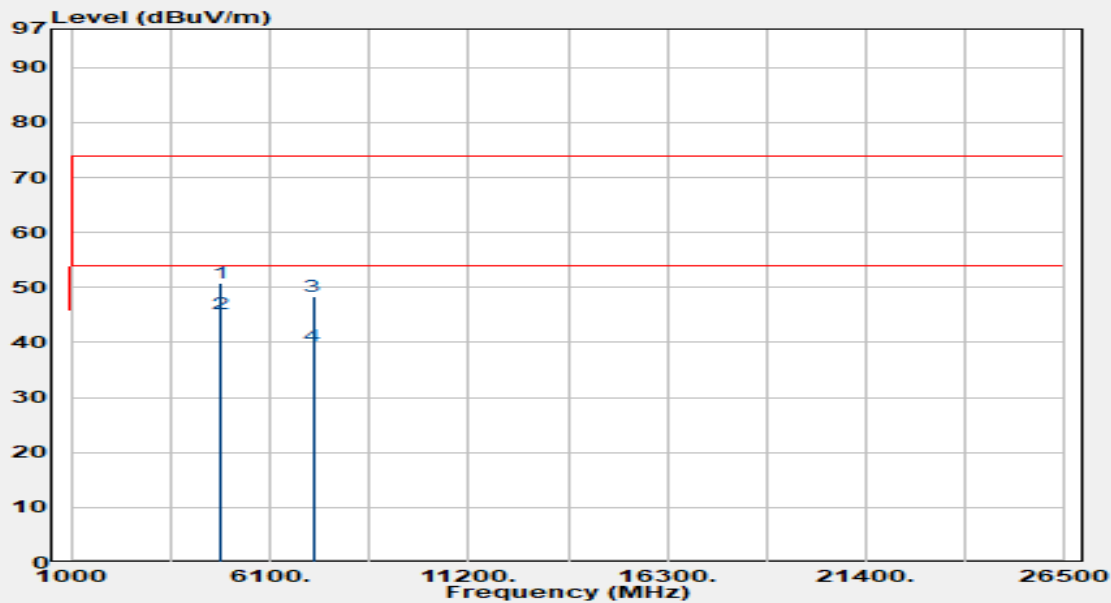
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	51.90	2.80	54.70	74.00	-19.30
4960.000	Average	47.24	2.80	50.04	54.00	-3.96
7440.000	Peak	42.63	7.97	50.60	74.00	-23.40
7440.000	Average	32.99	7.97	40.96	54.00	-13.04

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Report Number :TERF2211002257ER
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-10
Temp./Humi. :23.5/65
Antenna Pol. :Vertical
Engineer :Ricky Chen



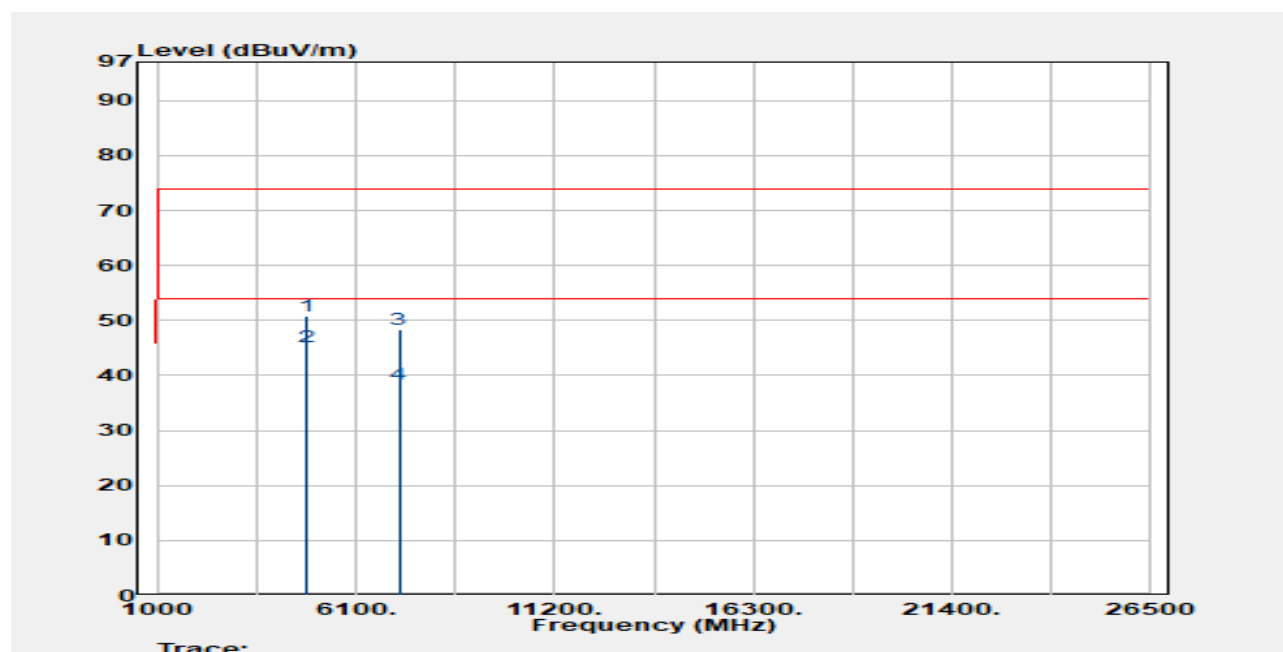
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	48.79	2.10	50.89	74.00	-23.11
4804.000	Average	43.02	2.10	45.12	54.00	-8.88
7206.000	Peak	40.81	7.56	48.37	74.00	-25.63
7206.000	Average	31.84	7.56	39.40	54.00	-14.60

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



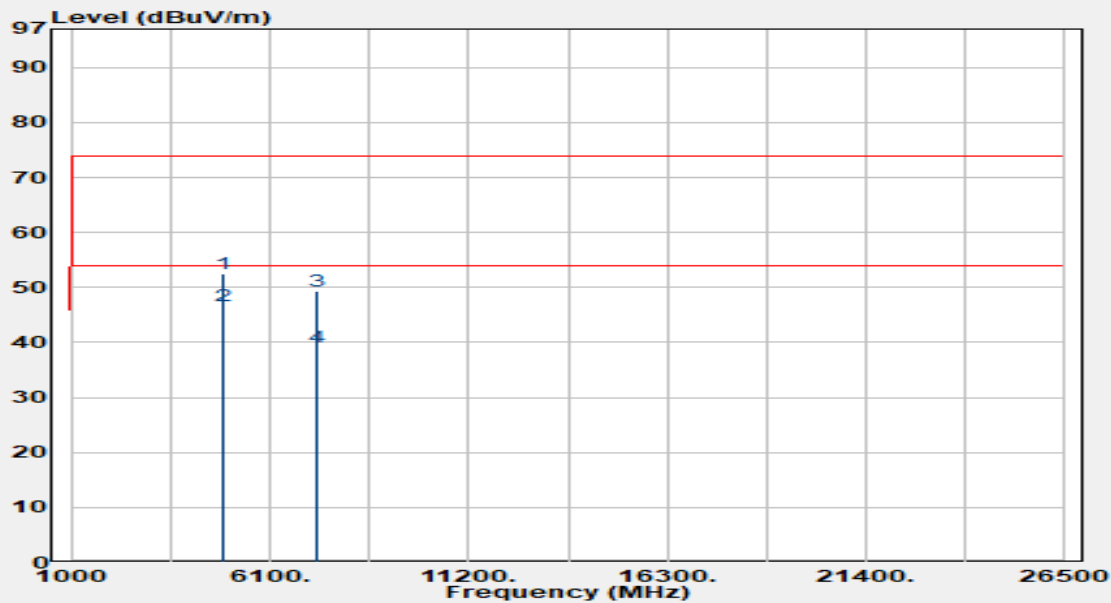
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.000	Peak	48.59	2.10	50.69	74.00	-23.31
4804.000	Average	43.15	2.10	45.25	54.00	-8.75
7206.000	Peak	40.84	7.56	48.40	74.00	-25.60
7206.000	Average	30.80	7.56	38.36	54.00	-15.64

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2442 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



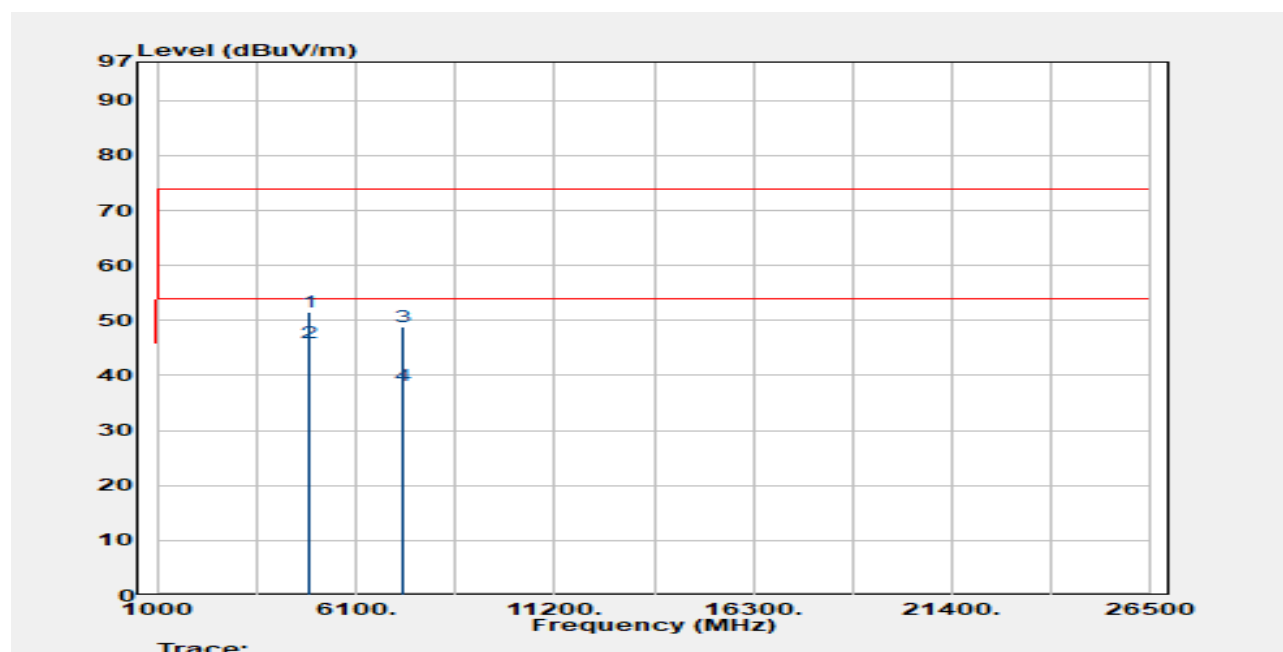
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	49.81	2.67	52.48	74.00	-21.52
4884.000	Average	44.02	2.67	46.69	54.00	-7.31
7326.000	Peak	41.63	7.71	49.34	74.00	-24.66
7326.000	Average	31.52	7.71	39.23	54.00	-14.77

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Report Number :TERF2211002257ER
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-10
Temp./Humi. :23.5/65
Antenna Pol. :Horizontal
Engineer :Ricky Chen



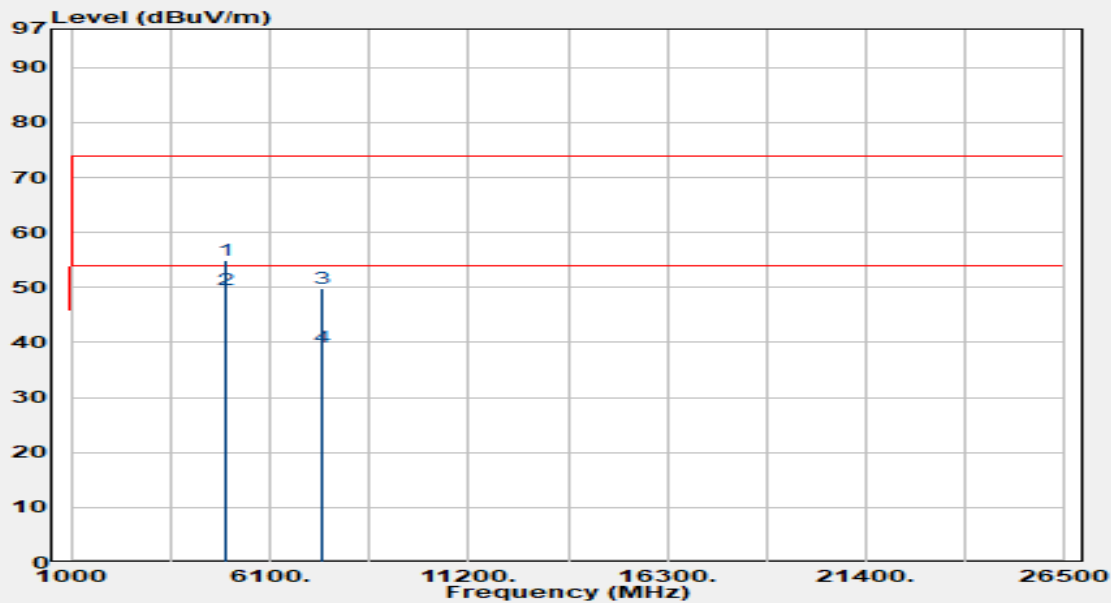
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.000	Peak	48.95	2.67	51.62	74.00	-22.38
4884.000	Average	43.31	2.67	45.98	54.00	-8.02
7326.000	Peak	41.05	7.71	48.76	74.00	-25.24
7326.000	Average	30.50	7.71	38.21	54.00	-15.79

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



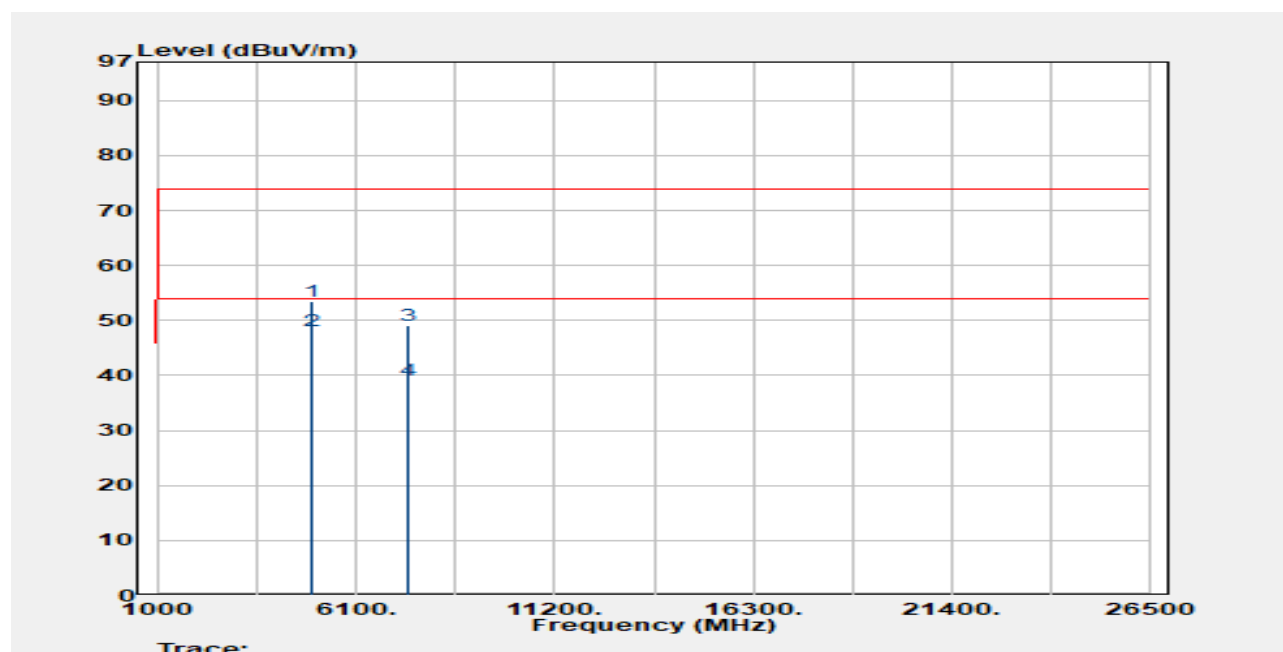
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.000	Peak	52.12	2.80	54.92	74.00	-19.08
4960.000	Average	46.75	2.80	49.55	54.00	-4.45
7440.000	Peak	41.96	7.97	49.93	74.00	-24.07
7440.000	Average	31.25	7.97	39.22	54.00	-14.78

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Report Number :TERF2211002257ER
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-10
 Temp./Humi. :23.5/65
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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	Peak	50.57	2.80	53.37	74.00	-20.63
4960.000	Average	45.33	2.80	48.13	54.00	-5.87
7440.000	Peak	41.09	7.97	49.06	74.00	-24.94
7440.000	Average	31.12	7.97	39.09	54.00	-14.91

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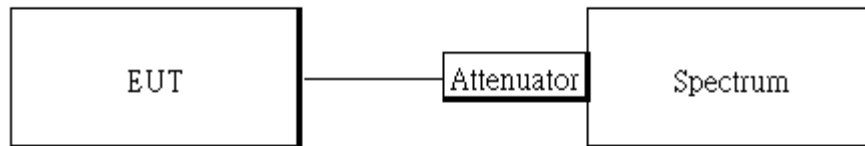
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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

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:

ANT0

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-4.38	8	PASS
2442	-4.62	8	PASS
2480	-4.84	8	PASS

NOTE: cable loss as 0.9dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-8.49	8	PASS
2442	-8.76	8	PASS
2480	-8.75	8	PASS

NOTE: cable loss as 0.9dB that offsets in the spectrum

BT_ANT

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-4.06	8	PASS
2442	-4.16	8	PASS
2480	-4.83	8	PASS

NOTE: cable loss as 0.9dB that offsets in the spectrum

BLE 2M mode

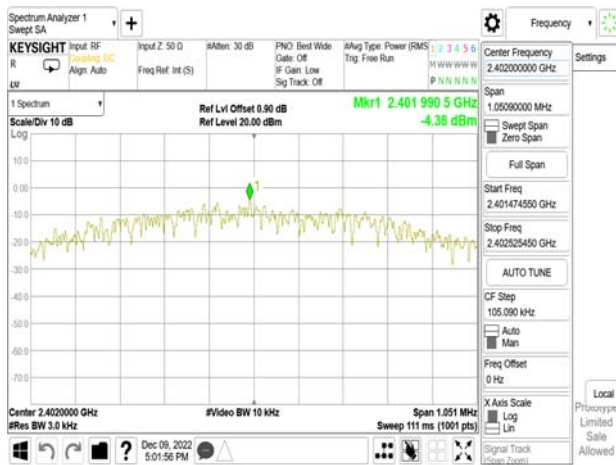
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-7.21	8	PASS
2442	-7.33	8	PASS
2480	-7.93	8	PASS

NOTE: cable loss as 0.9dB that offsets in the spectrum

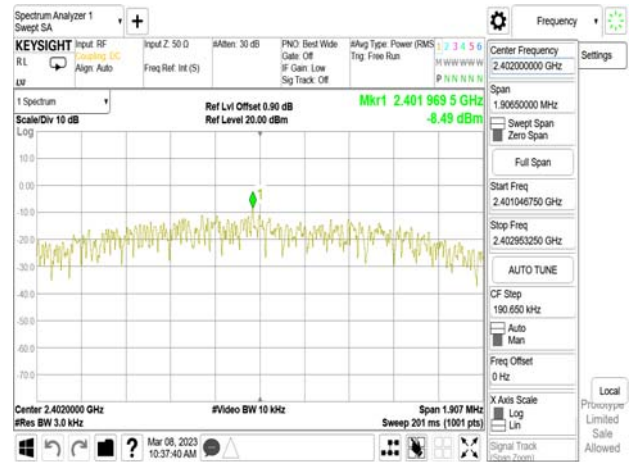
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PSD_BLE 1M_LowCH00-2402MHz



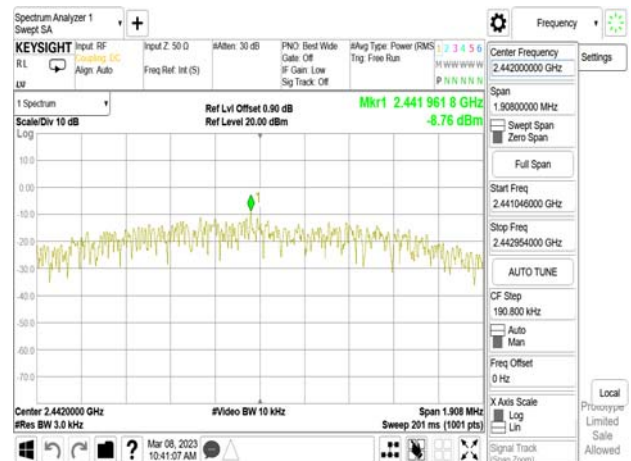
PSD_BLE 2M_LowCH00-2402MHz



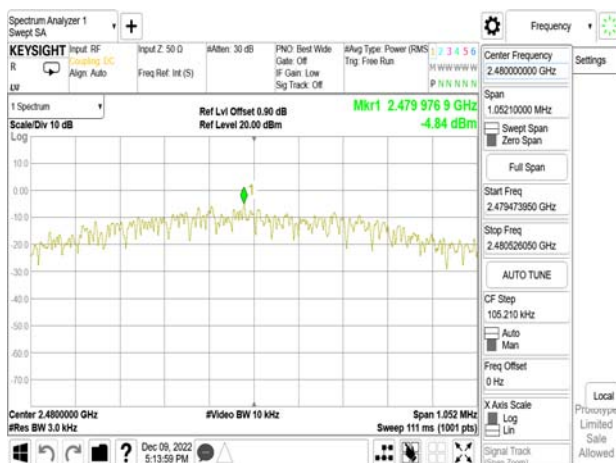
PSD_BLE 1M_MidCH20-2442MHz



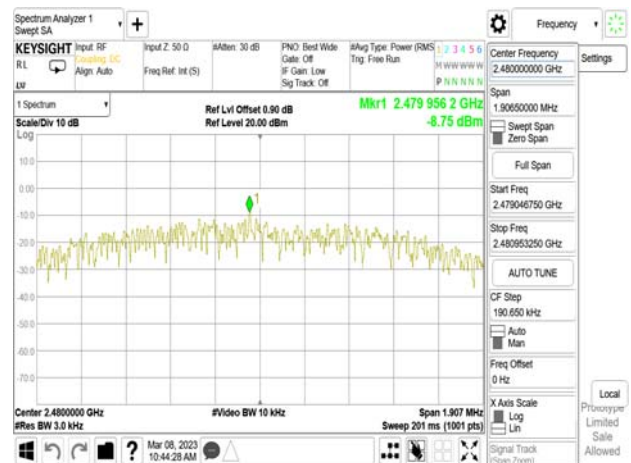
PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz

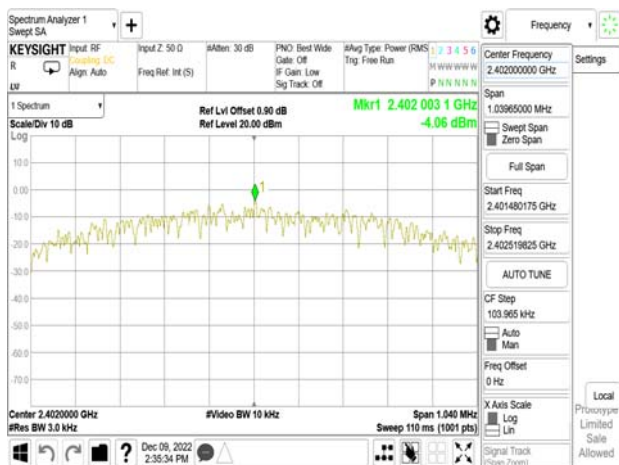


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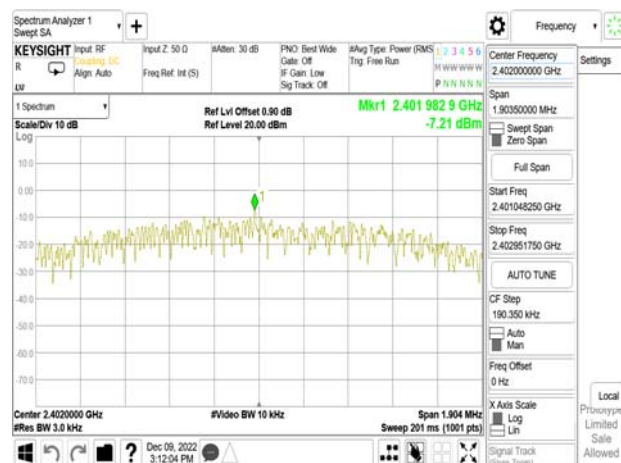
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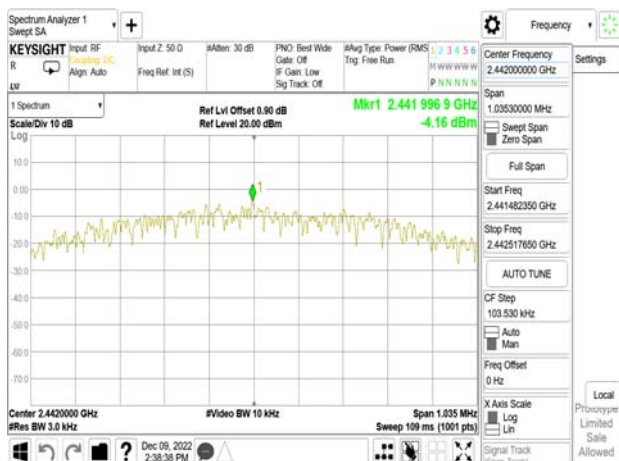
PSD_BLE 1M_LowCH00-2402MHz



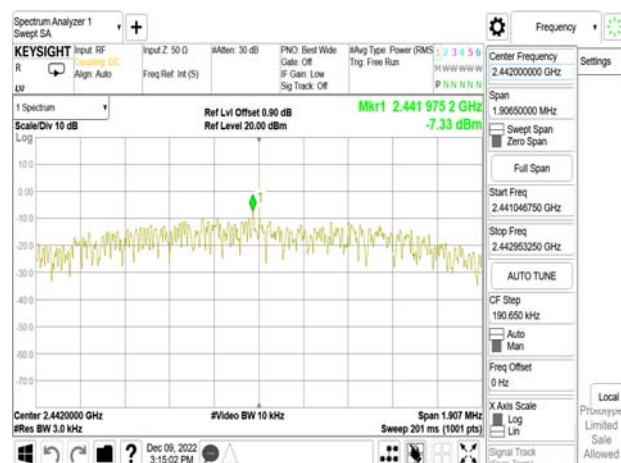
PSD_BLE 2M_LowCH00-2402MHz



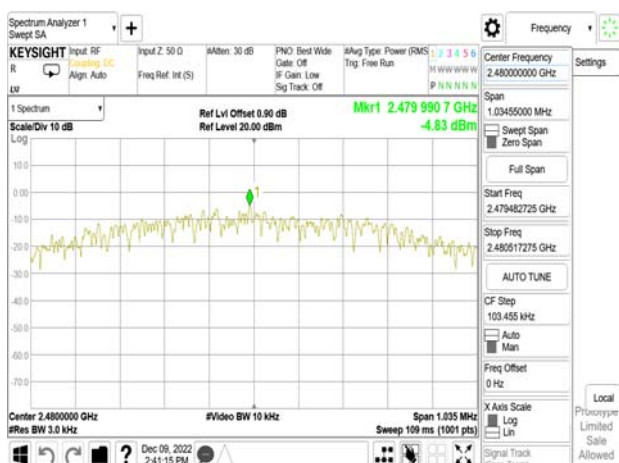
PSD_BLE 1M_MidCH20-2442MHz



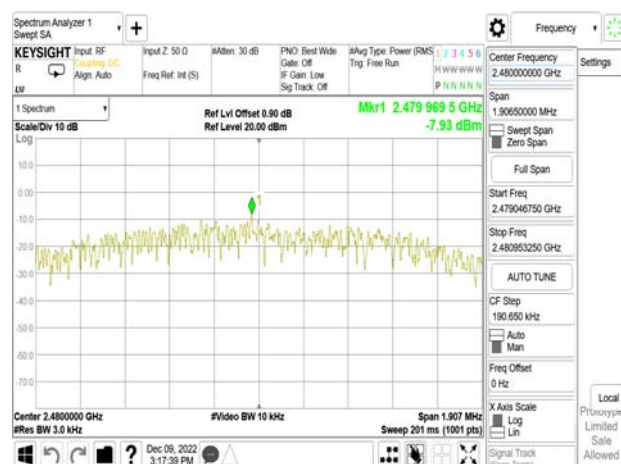
PSD_BLE 2M_MidCH20-2442MHz



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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