

**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 ISED:
LBEE5XV2EA_SANT, LBEE5XV2EA_DANT,
LBEE5XV2EB_SANT, LBEE5XV2EB_DANT

Model Difference: Refer to section 1.8

Report Number: TERF2211002256ER

FCC ID VPLYLBEE5XV2EA

IC: 772C-LBEE5XV2EA

Date of EUT Received: November 08, 2022

Date of Test: November 08, 2022 ~ March 10, 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, ISSED RSS-247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2211002256ER	00	Original	May 04, 2023	Violetta Tang	
TERF2211002256ER	01	Remove HMN information from page 7	June 02, 2023	Violetta Tang	
TERF2211002256ER	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:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	ANT0: 10.50dBm BT_ANT: 10.51dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$

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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 Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.6 Special Accessories

There is no special accessory 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 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

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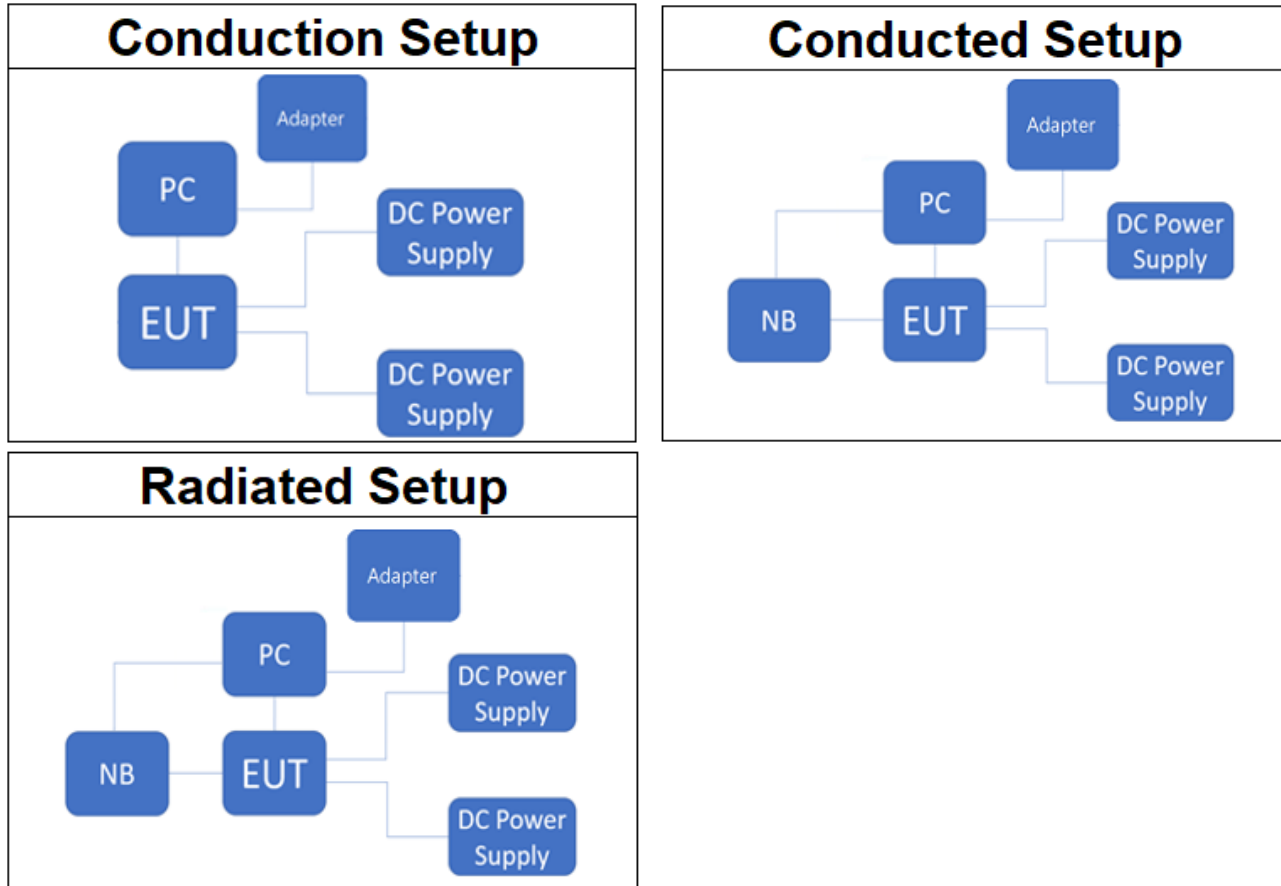
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 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)(1)	RSS-247 §5.4 b	Peak Output Power	Compliant
§15.247(a)(1)	RSS-247 §5.1 b RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	RSS-247 §5.1 b	Frequency Separation	Compliant
§15.247(a)(1)(iii)	RSS-247 §5.1 d	Number of hopping frequency Time of Occupancy	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 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 radiated 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.

ANTNNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power, 20dB Band Width				
Bluetooth	0 to 78	0,39,78	GFSK	DH5
	0 to 78	0,39,78	$\pi/4$ -DQPSK	2DH5
	0 to 78	0,39,78	8-DPSK	3DH5
Band Edge				
Bluetooth	0 to 78	0,78	GFSK/8-DPSK	DH5/3DH5
Frequency Separation				
Bluetooth	0 to 78	0,1,2,38,39,40,76,77,78	GFSK $\pi/4$ -DQPSK 8-DPSK	DH5 2DH5 3DH5
Number of Hopping Frequency, Hopping Band edge				
Bluetooth	0 to 78	0 to 78	GFSK/8-DPSK	DH5/3DH5
Time of Occupancy(Dwell time)				
Bluetooth	0 to 78	39	GFSK	DH1/DH3/DH5
			$\pi/4$ -DQPSK	2DH1/2DH3/2DH5
			8-DPSK	3DH1/3DH3/3DH5

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	0 to 78	39	GFSK	DH5
RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	DH5/3DH5
Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.				

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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
Frequency Separation	+/- 1.53 Hz
Number of hopping frequency	+/- 1.53 Hz
Time of Occupancy	+/- 1.53 Hz
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 within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	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

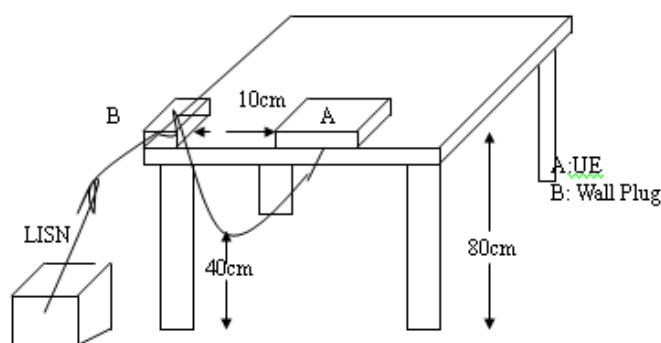
Note

- 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 63.10:2013.
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 frequency measured were complete.

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 :TERF2211002256ER

Test Mode :Operation (BT)

Power :120V/60Hz

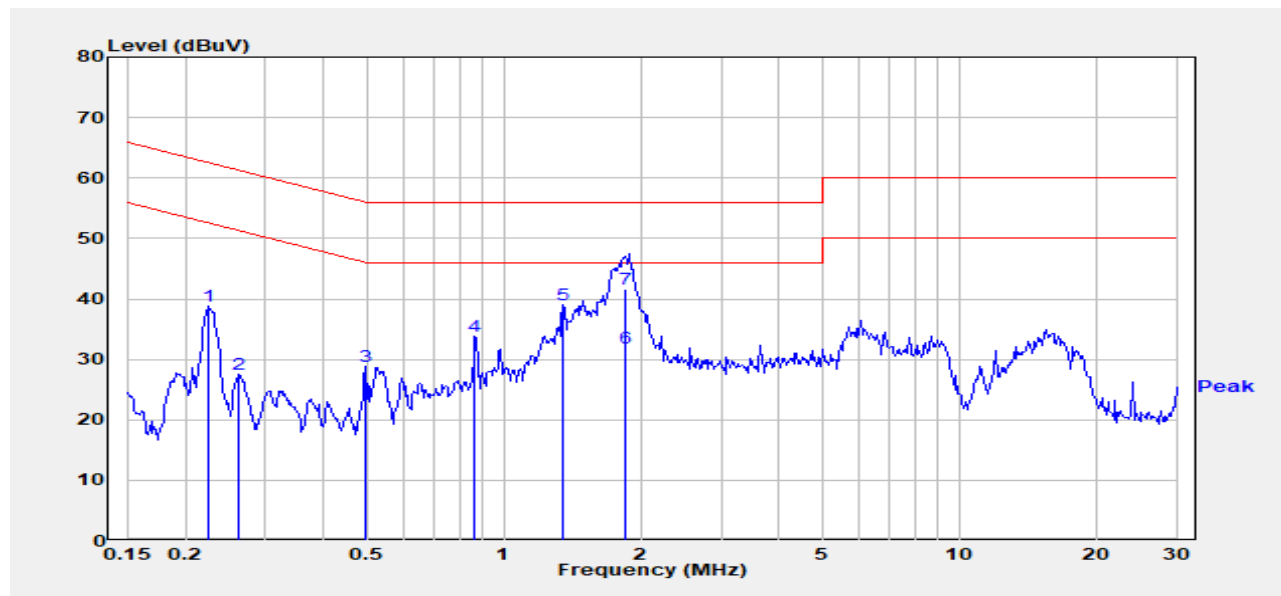
Probe :L

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 dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.225	Peak	28.56	10.25	38.81	62.62	-23.81
0.263	Peak	17.36	10.25	27.61	61.34	-33.73
0.497	Peak	18.63	10.25	28.89	56.05	-27.16
0.864	Peak	23.39	10.34	33.73	56.00	-22.27
1.349	Peak	28.33	10.67	39.00	56.00	-17.00
1.847	Average	20.89	11.00	31.89	46.00	-14.11
1.847	QP	30.62	11.00	41.62	56.00	-14.38

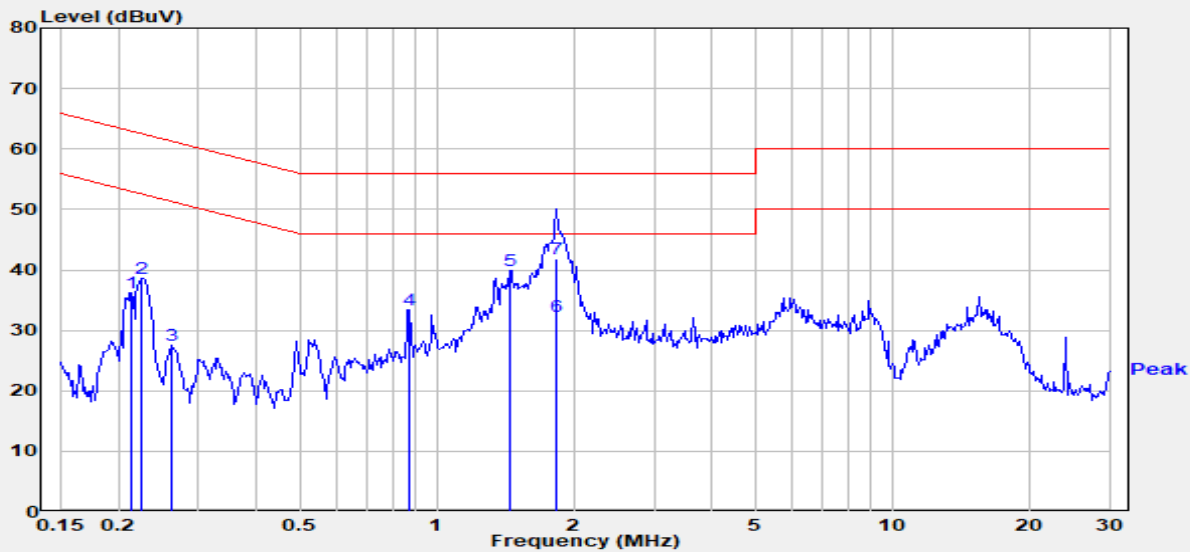
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Report Number :TERF2211002256ER
 Test Mode :Operation (BT)
 Power :120V/60Hz
 Probe :N

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
0.214	Peak	25.98	10.25	36.23	63.07	-26.83
0.224	Peak	28.40	10.25	38.65	62.68	-24.04
0.263	Peak	17.18	10.25	27.43	61.34	-33.91
0.870	Peak	23.12	10.34	33.46	56.00	-22.54
1.445	Peak	29.15	10.74	39.89	56.00	-16.11
1.833	Average	21.35	10.99	32.34	46.00	-13.66
1.833	QP	30.76	10.99	41.75	56.00	-14.25

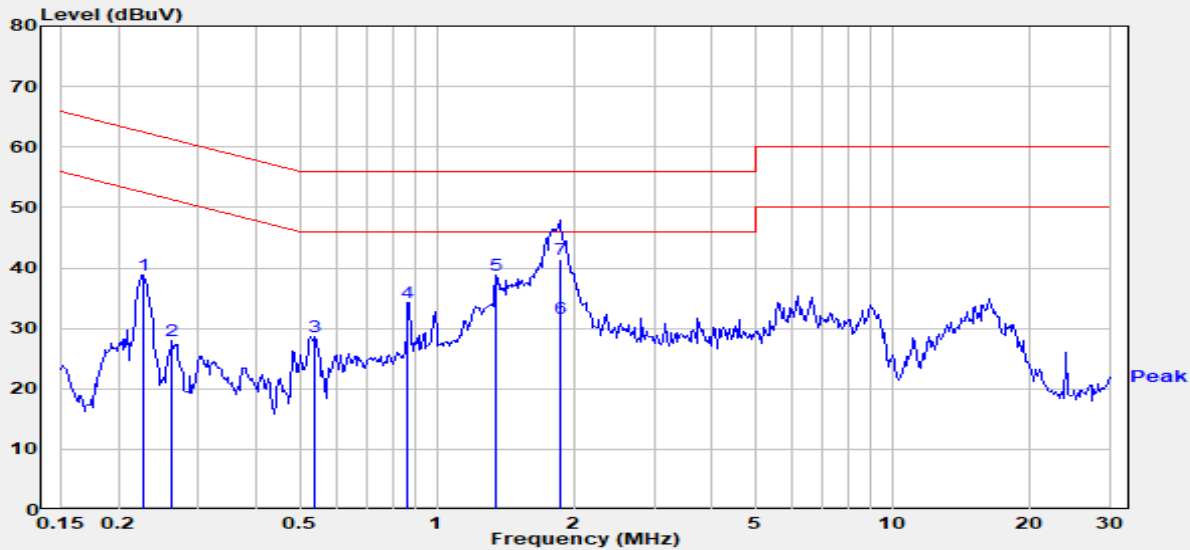
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BT_ANT

Report Number :TERF2211002256ER
Test Mode :Operation (BT)
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 dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.227	Peak	28.49	10.25	38.74	62.56	-23.81
0.263	Peak	17.77	10.25	28.02	61.34	-33.32
0.537	Peak	18.31	10.26	28.57	56.00	-27.43
0.864	Peak	23.92	10.34	34.26	56.00	-21.74
1.349	Peak	28.17	10.67	38.84	56.00	-17.16
1.862	Average	20.74	11.01	31.75	46.00	-14.25
1.862	QP	30.43	11.01	41.44	56.00	-14.56

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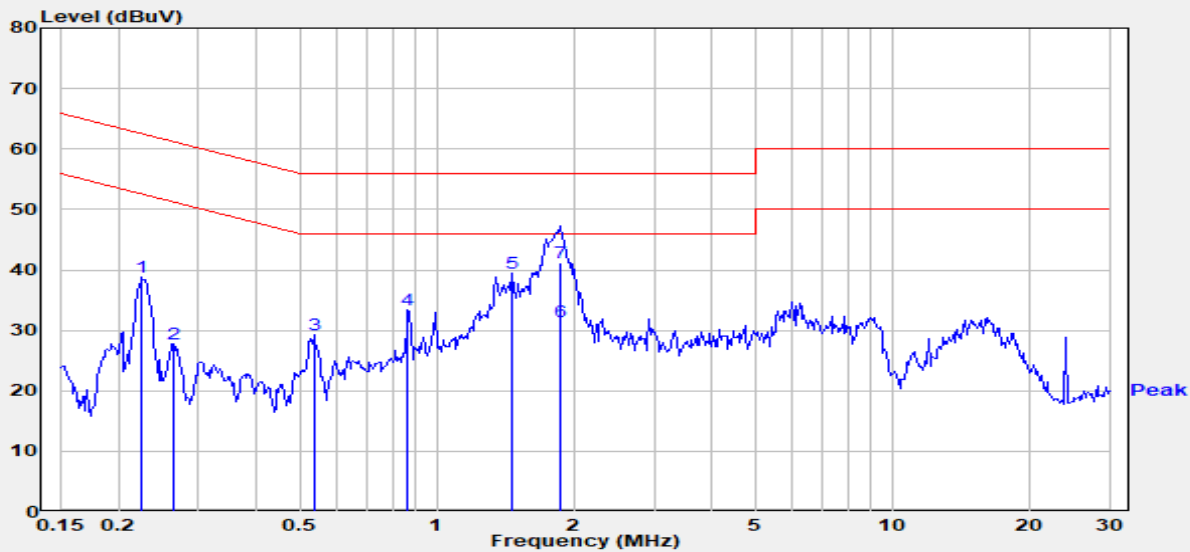
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Report Number :TERF2211002256ER
 Test Mode :Operation (BT)
 Power :120V/60Hz
 Probe :N

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	28.50	10.25	38.75	62.62	-23.87
0.265	Peak	17.45	10.25	27.70	61.28	-33.58
0.537	Peak	19.01	10.26	29.27	56.00	-26.73
0.864	Peak	23.02	10.34	33.36	56.00	-22.64
1.467	Peak	28.77	10.76	39.53	56.00	-16.47
1.862	Average	20.49	11.01	31.50	46.00	-14.50
1.862	QP	30.26	11.01	41.27	56.00	-14.73

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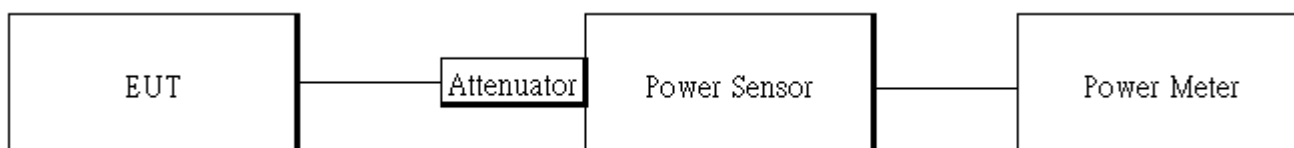
8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

The e.i.r.p. shall not exceed 4 W.

8.2 Test Setup



8.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW $\geq$ 20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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8.4 Peak & Average Power Measurement Result

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1M BR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	10.50	11.220	1000
Mid	2441	0	10.35	10.839	1000
High	2480	0	9.82	9.594	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	10.38	10.905	1000
Mid	2441	0	10.26	10.608	1000
High	2480	0	9.73	9.389	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	8.90	7.762	125
Mid	2441	0	8.82	7.621	125
High	2480	0	7.86	6.109	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	6.38	4.341	125
Mid	2441	0	6.17	4.137	125
High	2480	0	5.98	3.959	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	9.23	8.375	125
Mid	2441	0	9.21	8.337	125
High	2480	0	8.24	6.668	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	6.43	4.392	125
Mid	2441	0	6.33	4.292	125
High	2480	0	6.00	3.978	125

*Note: Max. Output include tune up tolerance Power measured by using average detector.

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1M BR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	10.28	10.666	1000
Mid	2441	0	10.34	10.814	1000
High	2480	0	10.51	11.246	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	10.10	10.224	1000
Mid	2441	0	10.01	10.015	1000
High	2480	0	10.19	10.439	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	8.73	7.464	125
Mid	2441	0	8.82	7.621	125
High	2480	0	8.25	6.683	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	6.46	4.422	125
Mid	2441	0	6.42	4.382	125
High	2480	0	6.04	4.015	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	9.03	7.998	125
Mid	2441	0	8.92	7.798	125
High	2480	0	8.54	7.145	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	0	6.48	4.450	125
Mid	2441	0	6.21	4.182	125
High	2480	0	6.01	3.994	125

*Note: Max. Output include tune up tolerance Power measured by using average detector.

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8.5 EIRP Measurement Result

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1M BR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	0	10.38	3.20	22.784	4000
Mid	2441	0	10.26	3.20	22.164	4000
High	2480	0	9.73	3.20	19.617	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	0	6.38	3.20	9.071	4000
Mid	2441	0	6.17	3.20	8.642	4000
High	2480	0	5.98	3.20	8.273	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	0	6.43	3.20	9.176	4000
Mid	2441	0	6.33	3.20	8.967	4000
High	2480	0	6.00	3.20	8.311	4000

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

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1M BR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	0	10.10	3.20	21.362	4000
Mid	2441	0	10.01	3.20	20.924	4000
High	2480	0	10.19	3.20	21.809	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	0	6.46	3.20	9.239	4000
Mid	2441	0	6.42	3.20	9.155	4000
High	2480	0	6.04	3.20	8.388	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	0	6.48	3.20	9.298	4000
Mid	2441	0	6.21	3.20	8.737	4000
High	2480	0	6.01	3.20	8.344	4000

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

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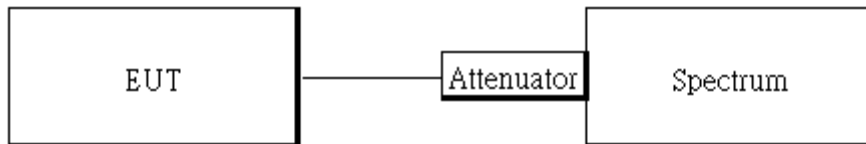
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

For frequency hopping systems operating in the 2400 MHz-2483.5 MHz no limit for 20dB bandwidth.

9.2 Test Setup



9.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 the spectrum analyzer as
RBW= 1 % to 5% of OBW ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% Bandwidth ,
VBW $\geq$ 3 X RBW,
Span= large enough to capture all products of the modulation process,
Sweep=auto,
Detector = Peak, and Max hold for 99% Bandwidth test.
7. Mark the peak frequency and 99%dB (upper and lower) frequency
8. Repeat above procedures until all test default channel is completed.

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9.4 20dB Bandwidth ANT0

GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.9802	0.65
Mid	0.9812	0.65
High	0.9804	0.65

$\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.333	0.89
Mid	1.334	0.89
High	1.331	0.89

8-DPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.312	0.87
Mid	1.312	0.87
High	1.314	0.88

BT_ANT

GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.9376	0.63
Mid	0.9404	0.63
High	0.9395	0.63

$\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.352	0.90
Mid	1.352	0.90
High	1.349	0.90

8-DPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.311	0.87
Mid	1.311	0.87
High	1.314	0.88

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9.5 99% Bandwidth
ANT0

GFSK

CH	99% BW (MHz)
Low	0.90674
Mid	0.90535
High	0.90656

$\pi/4$ -DQPSK

CH	99% BW (MHz)
Low	1.1939
Mid	1.1954
High	1.1937

8-DPSK

CH	99% BW (MHz)
Low	1.2018
Mid	1.2031
High	1.2011

BT_ANT

GFSK

CH	99% BW (MHz)
Low	0.86817
Mid	0.86782
High	0.86827

$\pi/4$ -DQPSK

CH	99% BW (MHz)
Low	1.2022
Mid	1.2006
High	1.1995

8-DPSK

CH	99% BW (MHz)
Low	1.2072
Mid	1.2055
High	1.2027

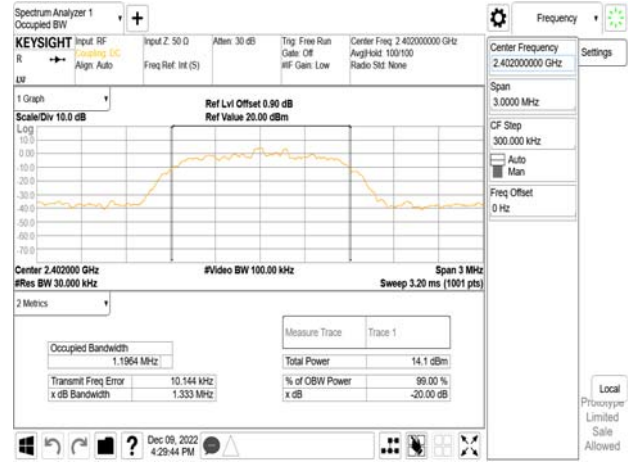
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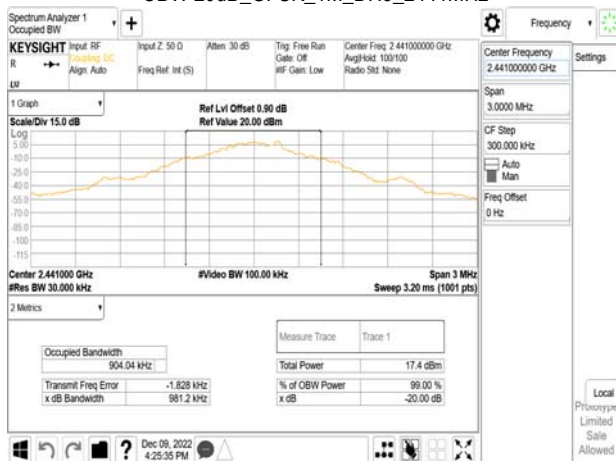
OBW 20dB_GFSK_1M_DH5_2402MHz



OBW 20dB_π/4DQPSK_2M_DH5_2402MHz



OBW 20dB_GFSK_1M_DH5_2441MHz



OBW 20dB_π/4DQPSK_2M_DH5_2441MHz



OBW 20dB_GFSK_1M_DH5_2480MHz



OBW 20dB_π/4DQPSK_2M_DH5_2480MHz



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OBW 20dB_8DPSK_3M_DH5_2402MHz



OBW 20dB_GFSK_1M_DH5_2402MHz



OBW 20dB_8DPSK_3M_DH5_2441MHz



OBW 20dB_GFSK_1M_DH5_2441MHz



OBW 20dB_8DPSK_3M_DH5_2480MHz



OBW 20dB_GFSK_1M_DH5_2480MHz



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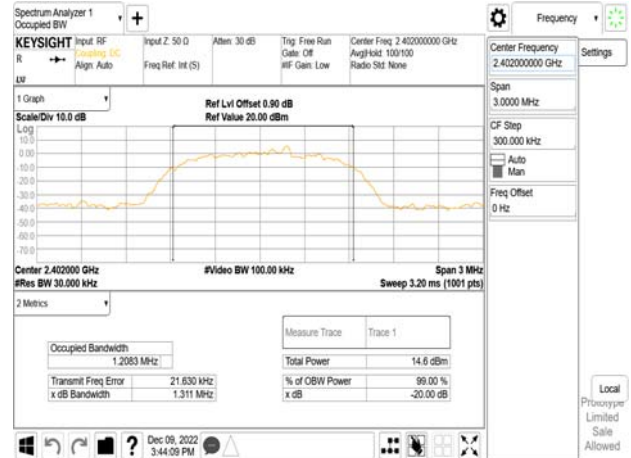
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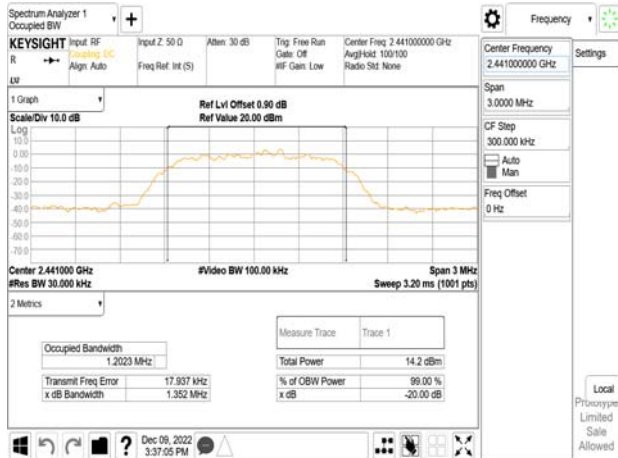
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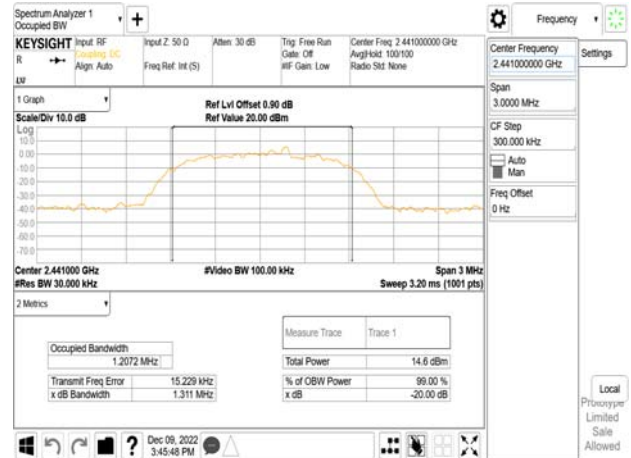
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OBW 20dB_π/4QPSK_2M_DH5_2441MHz



OBW 20dB_8DPSK_3M_DH5_2441MHz



OBW 20dB_π/4QPSK_2M_DH5_2480MHz



OBW 20dB_8DPSK_3M_DH5_2480MHz



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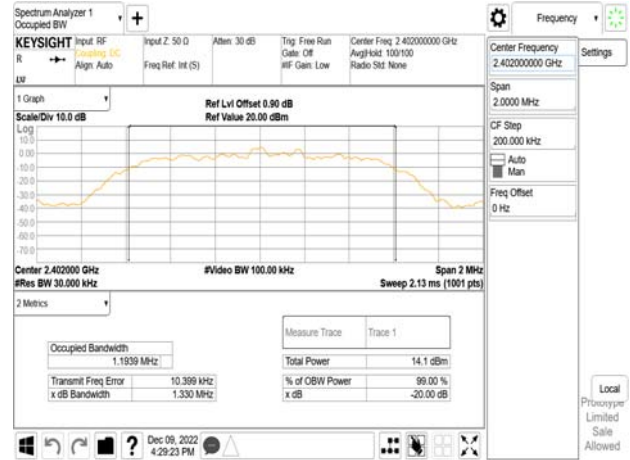
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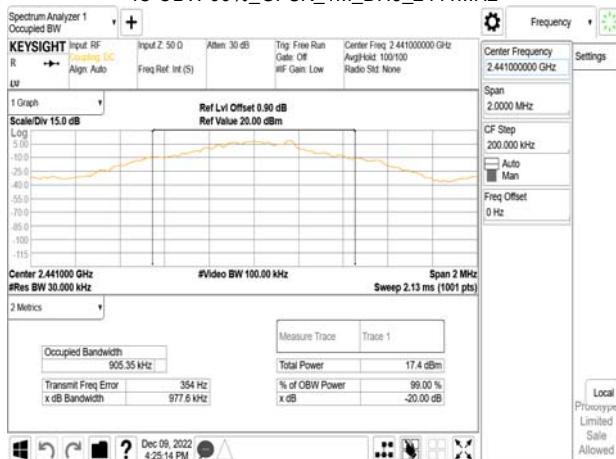
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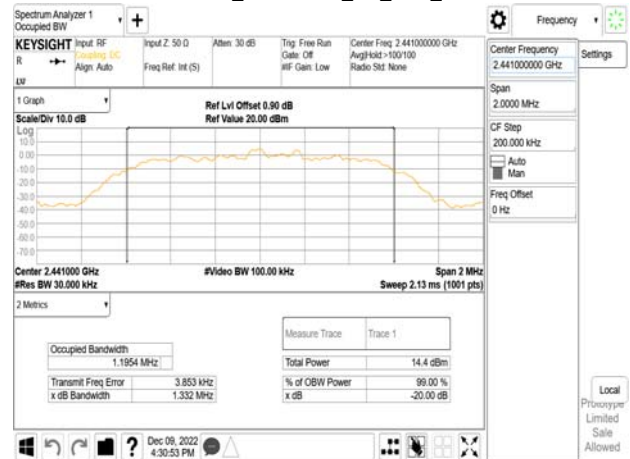
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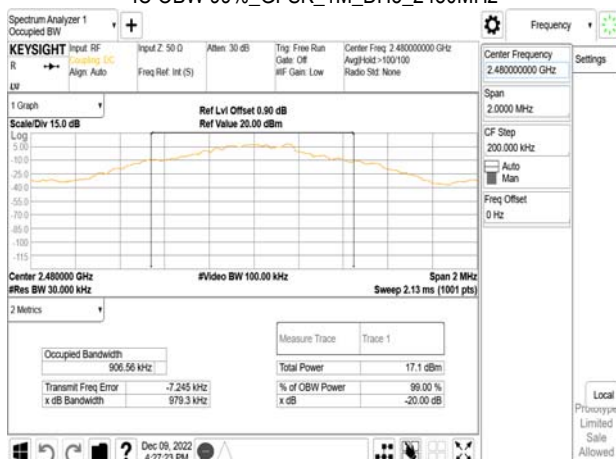
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IC OBW 99%_π/4DQPSK_2M_DH5_2441MHz



IC OBW 99%_GFSK_1M_DH5_2480MHz



IC OBW 99%_π/4DQPSK_2M_DH5_2480MHz



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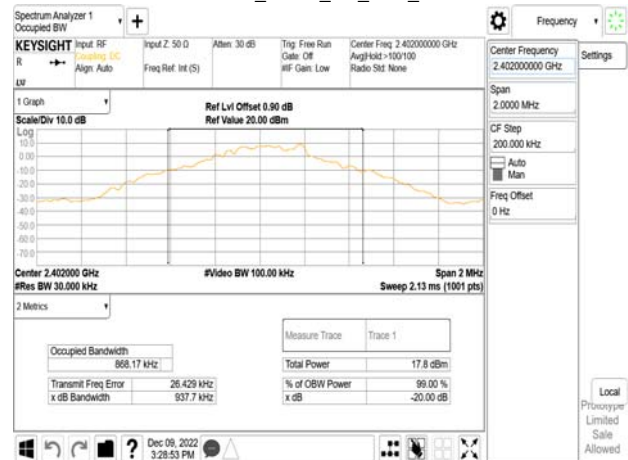
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IC OBW 99%_8DPSK_3M_DH5_2402MHz



IC OBW 99%_GFSK_1M_DH5_2402MHz



IC OBW 99%_8DPSK_3M_DH5_2441MHz



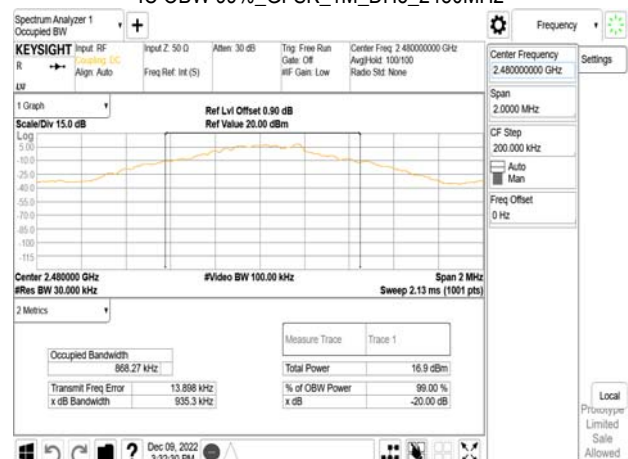
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IC OBW 99%_8DPSK_3M_DH5_2480MHz



IC OBW 99%_GFSK_1M_DH5_2480MHz



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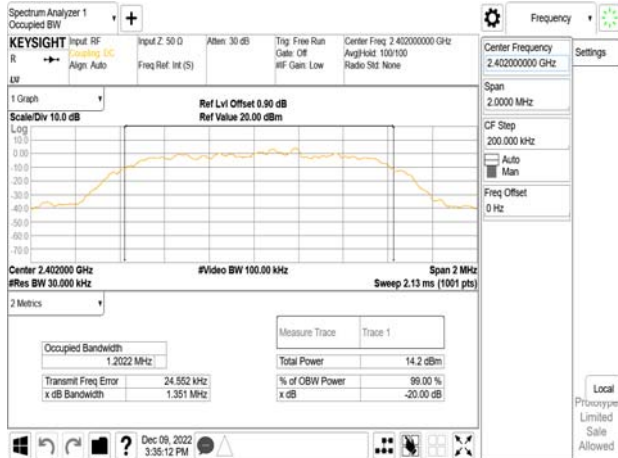
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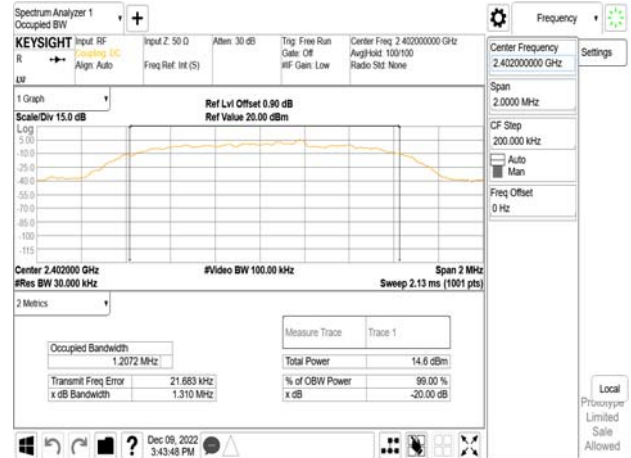
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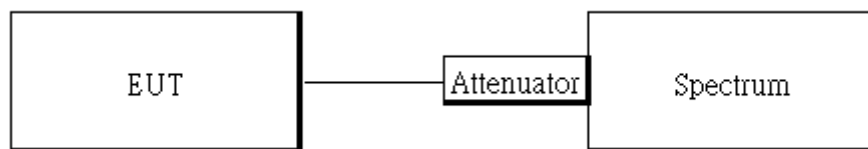
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, below 2.4GHz and above 2.4835GHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

10.3.2 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
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

See next page for test plots.

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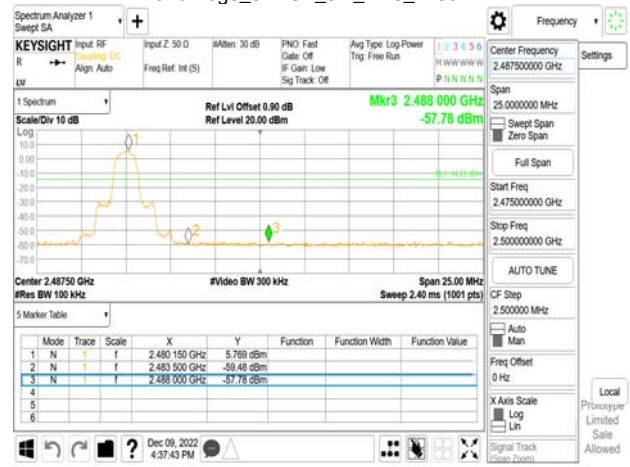
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Band Edge_GFSK_1M_DH5_2402MHz



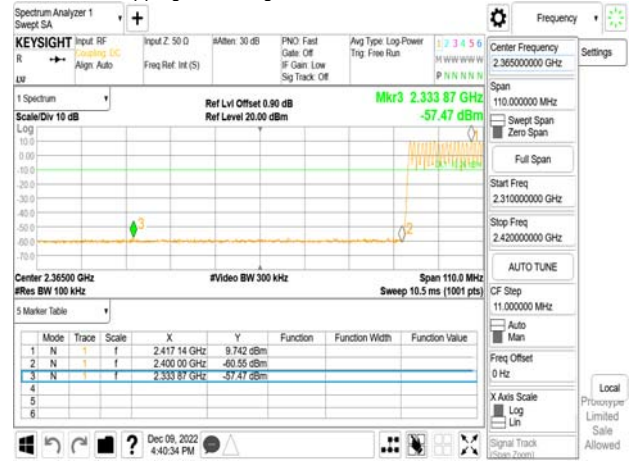
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Band Edge_GFSK_1M_DH5_2480MHz



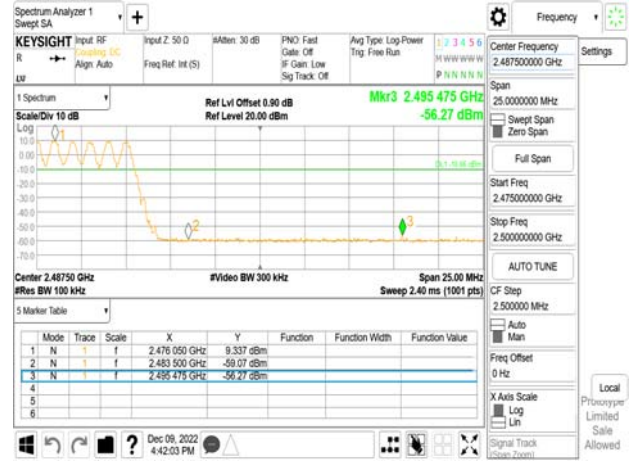
Hopping Band Edge_GFSK_1M_DH5_2402MHz



Band Edge_8DPSK_3M_DH5_2402MHz



Hopping Band Edge_GFSK_1M_DH5_2480MHz



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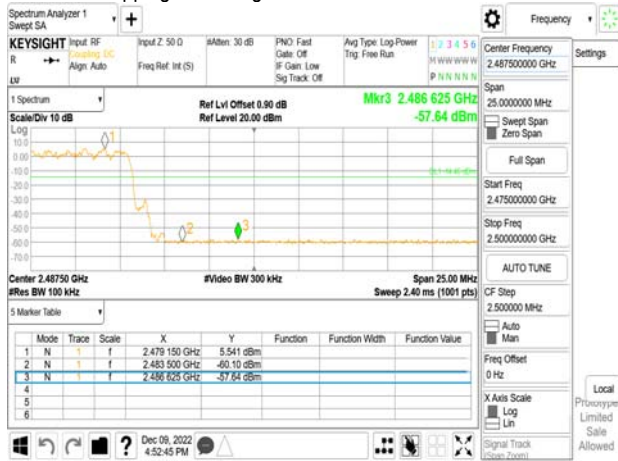
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Spurious Emission_GFSK_1M_DH5_2441MHz



Hopping Band Edge_8DPSK_3M_DH5_2480MHz



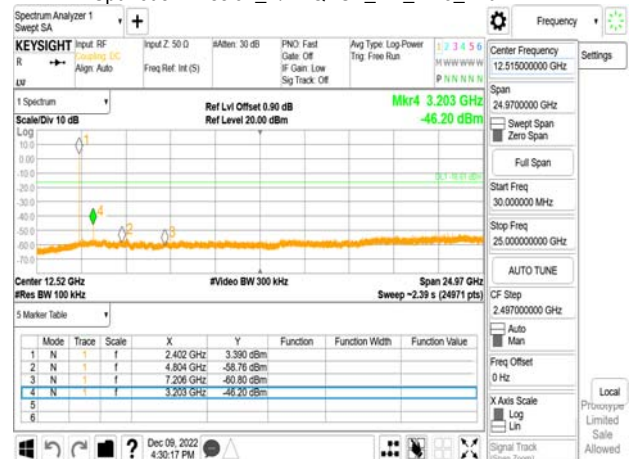
Spurious Emission_GFSK_1M_DH5_2480MHz



Spurious Emission_GFSK_1M_DH5_2402MHz



Spurious Emission_π/4DQPSK_2M_DH5_2402MHz



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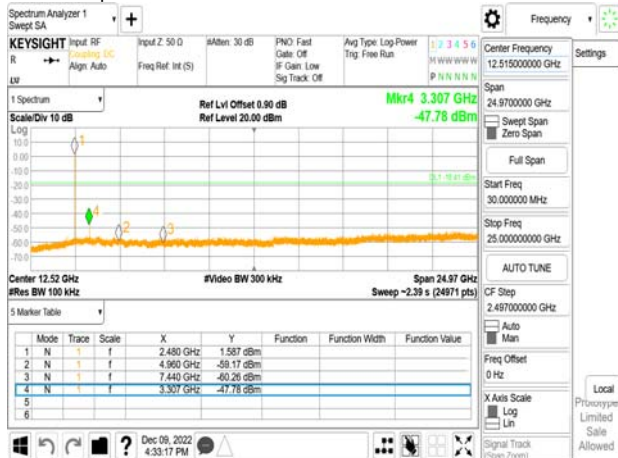
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Spurious Emission_8DPSK_3M_DH5_2441MHz



Spurious Emission_π/4DQPSK_2M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2402MHz



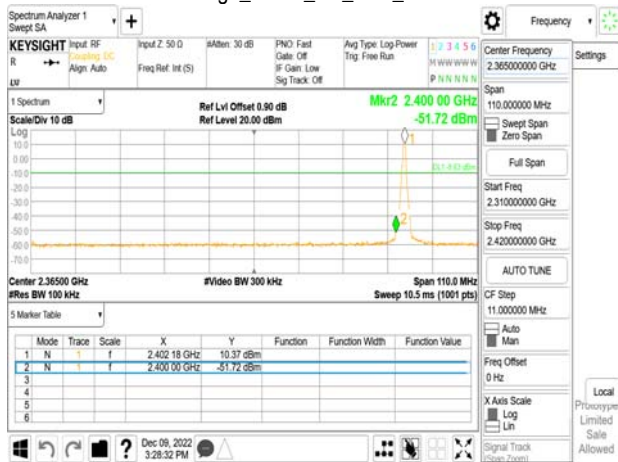
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Band Edge_GFSK_1M_DH5_2402MHz



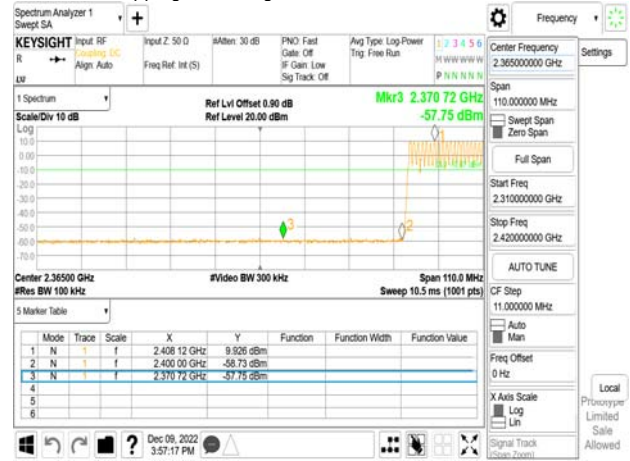
Band Edge_8DPSK_3M_DH5_2480MHz



Band Edge_GFSK_1M_DH5_2480MHz



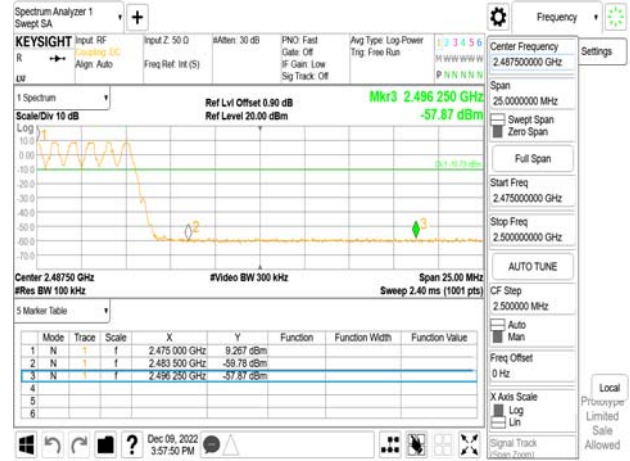
Hopping Band Edge_GFSK_1M_DH5_2402MHz



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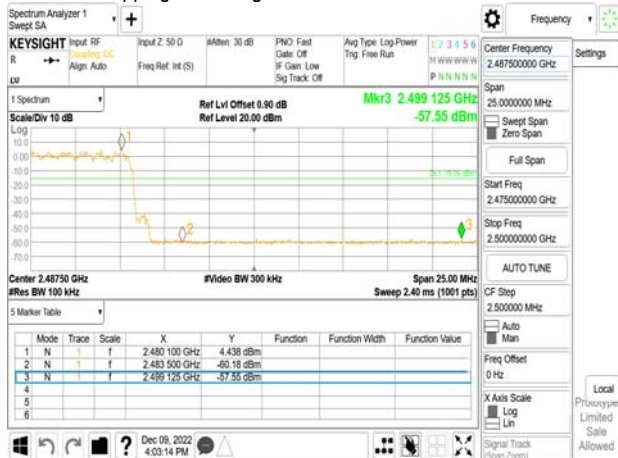
Hopping Band Edge_8DPSK_3M_DH5_2402MHz



Spurious Emission_GFSK_1M_DH5_2441MHz



Hopping Band Edge_8DPSK_3M_DH5_2480MHz



Spurious Emission_GFSK_1M_DH5_2480MHz



Spurious Emission_GFSK_1M_DH5_2402MHz



Spurious Emission_π/4DQPSK_2M_DH5_2402MHz



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Spurious Emission_π/4DQPSK_2M_DH5_2441MHz



Spurious Emission_8DPSK_3M_DH5_2441MHz



Spurious Emission_π/4DQPSK_2M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2402MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Duty Cycle Correction Factor

According to 15. 35(c) and RSS-Gen §8.2, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

11.1.2 Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

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

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

Note:

1. The lower limit shall apply at the transition frequencies.

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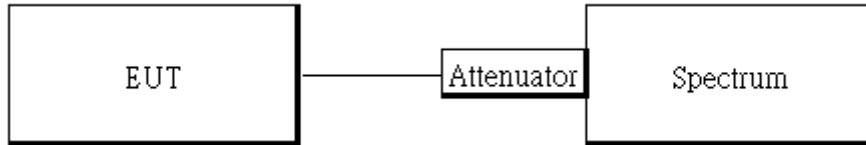
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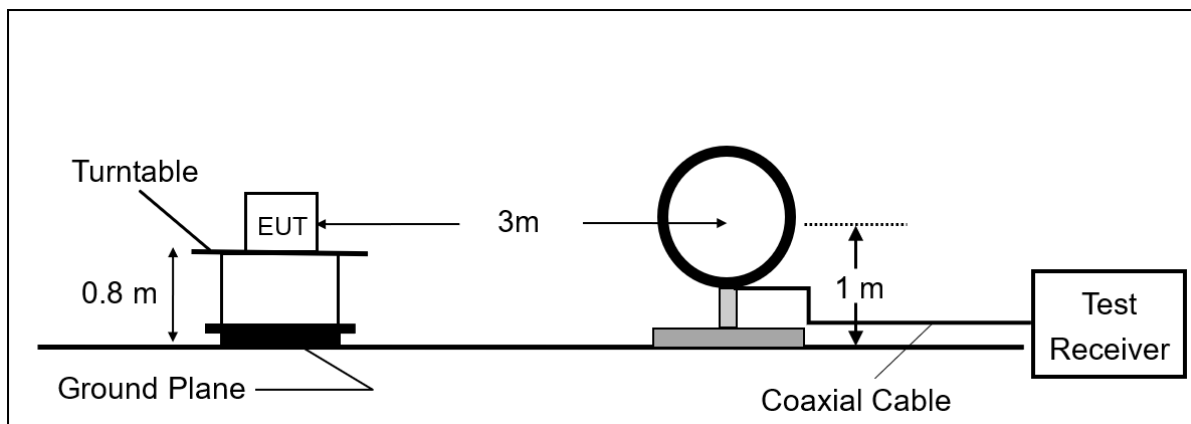
11.2 Test Setup

11.2.1 Duty Cycle Correction Factor

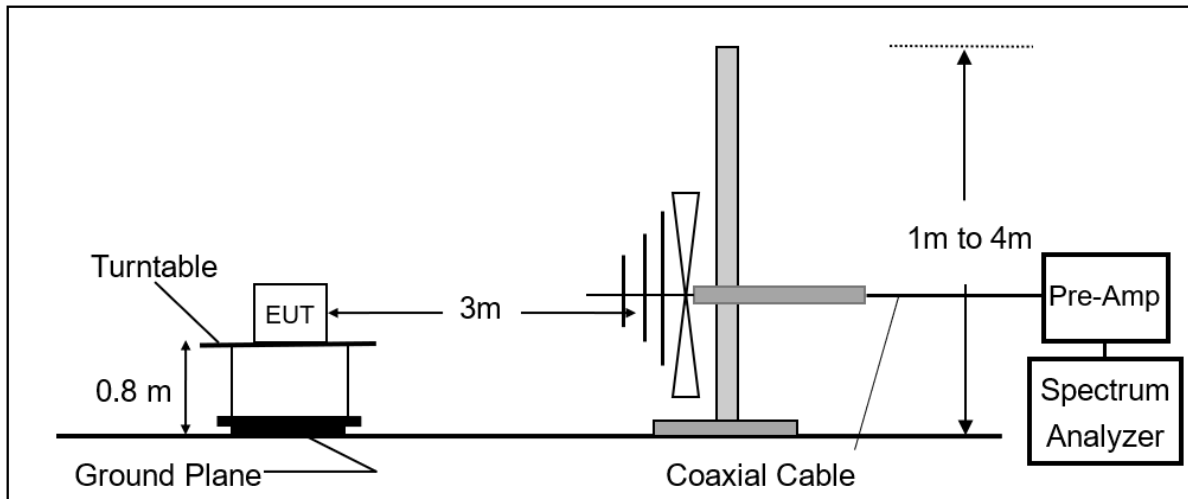


11.2.2 Radiated Emission

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



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

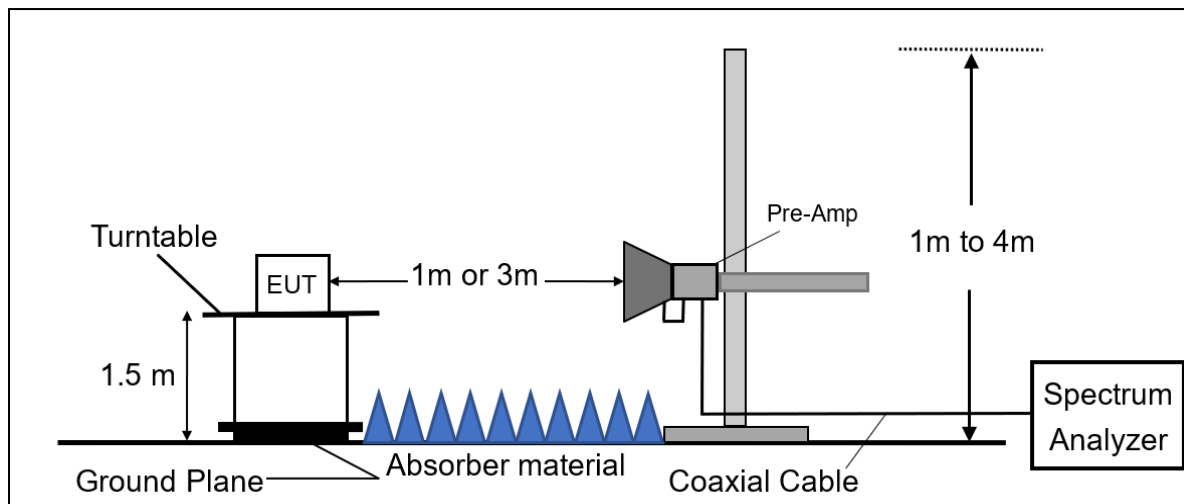


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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



11.3 Measurement Procedure

11.3.1 Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

11.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
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. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
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(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

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

Average value(dBμV/m)=Peak Actual FS(dBμV/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = $20 \log (T_{on}/100 \text{ ms})$

11.5 Test Results of Radiated Spurious Emissions form 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 Duty Cycle Correction Factor

ANT0 (monopole)

Bluetooth 1M

Time ON of 100ms:	5.600	ms
Duty Cycle=5.6ms / 100m	0.056	%
Duty Cycle correction factor=20 LOG 0.056=	-25.04	dB

Bluetooth 3M

Time ON of 100ms:	5.800	ms
Duty Cycle=5.8ms / 100m	0.058	%
Duty Cycle correction factor=20 LOG 0.058=	-24.73	dB

ANT0 (dipole)

Bluetooth 1M

Time ON of 100ms:	5.600	ms
Duty Cycle=5.6ms / 100m	0.056	%
Duty Cycle correction factor=20 LOG 0.056=	-25.04	dB

Bluetooth 3M

Time ON of 100ms:	5.600	ms
Duty Cycle=5.6ms / 100m	0.056	%
Duty Cycle correction factor=20 LOG 0.056=	-25.04	dB

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Bluetooth 1M

Time ON of 100ms:	5.800	ms
Duty Cycle=5.8ms / 100m	0.058	%
Duty Cycle correction factor=20 LOG 0.058=	-24.73	dB

Bluetooth 3M

Time ON of 100ms:	5.400	ms
Duty Cycle=5.4ms / 100m	0.054	%
Duty Cycle correction factor=20 LOG 0.054=	-25.35	dB

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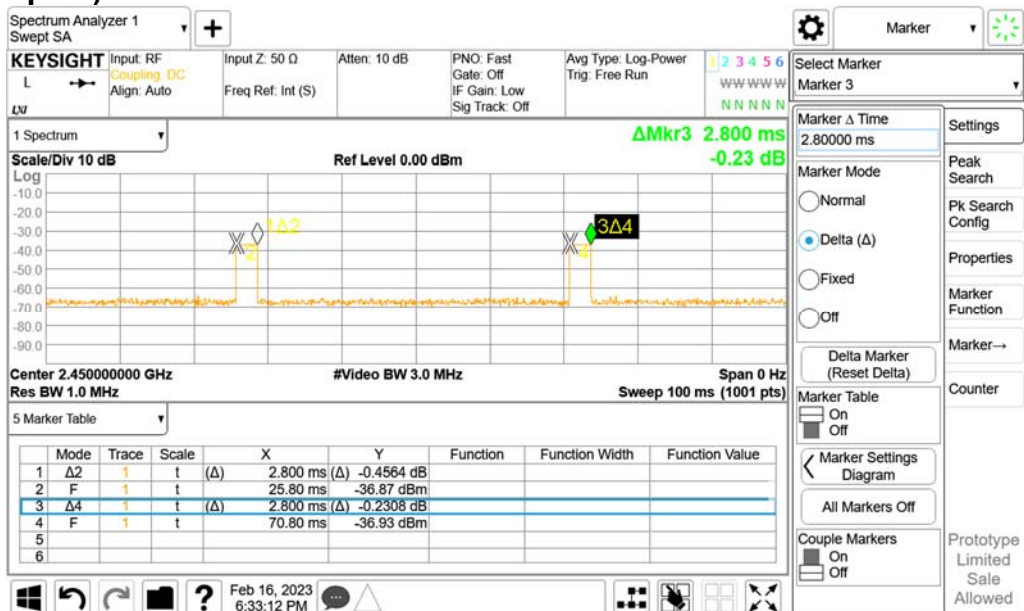
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11.6.2 Duty Cycle test plot

BR

ANT0 (monopole)



ANT0 (dipole)



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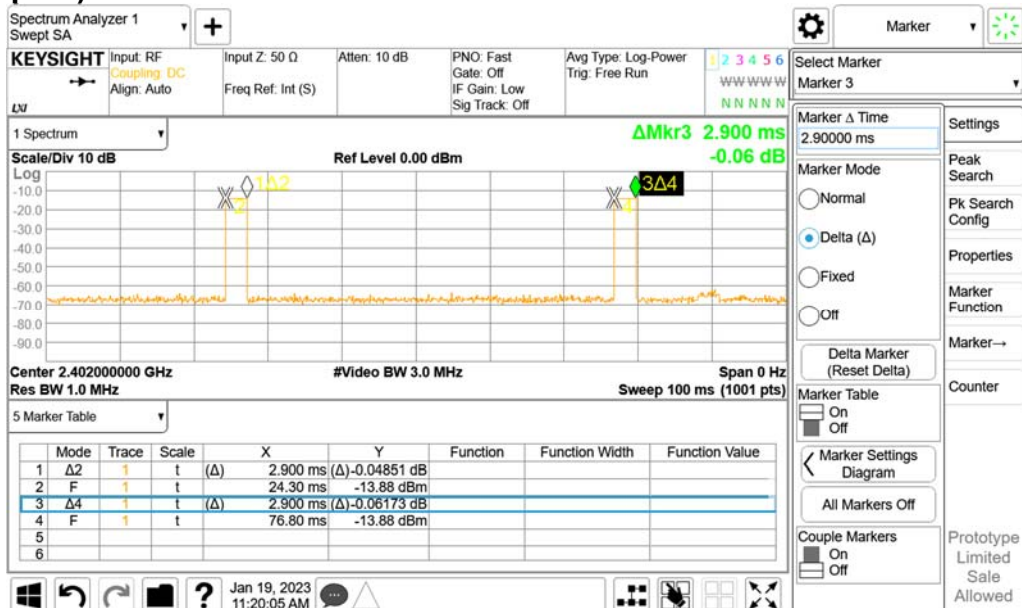
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BT_ANT (dipole)



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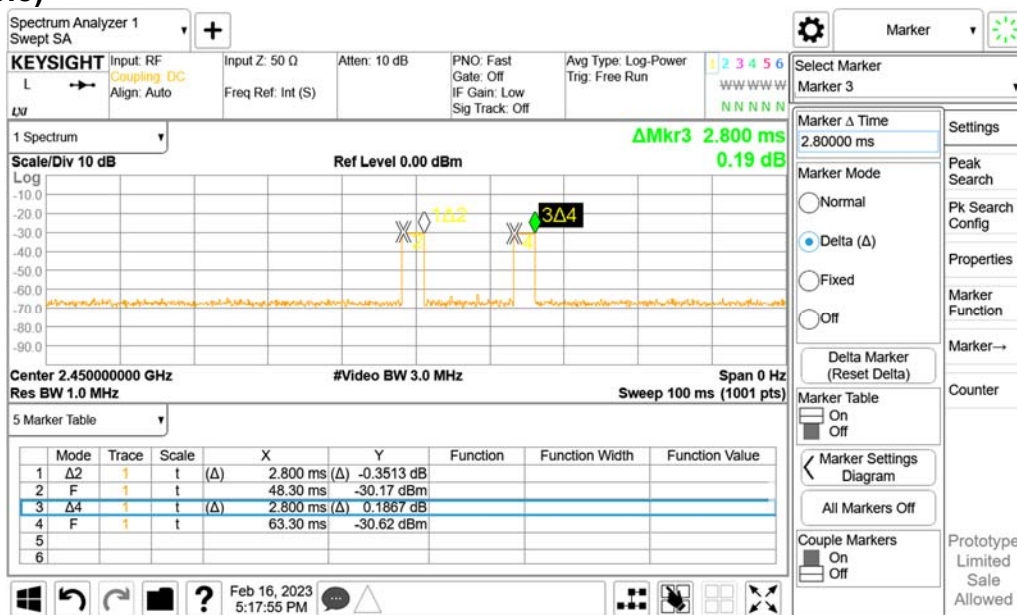
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EDR ANT0 (monopole)



ANT0 (dipole)



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BT_ANT (dipole)



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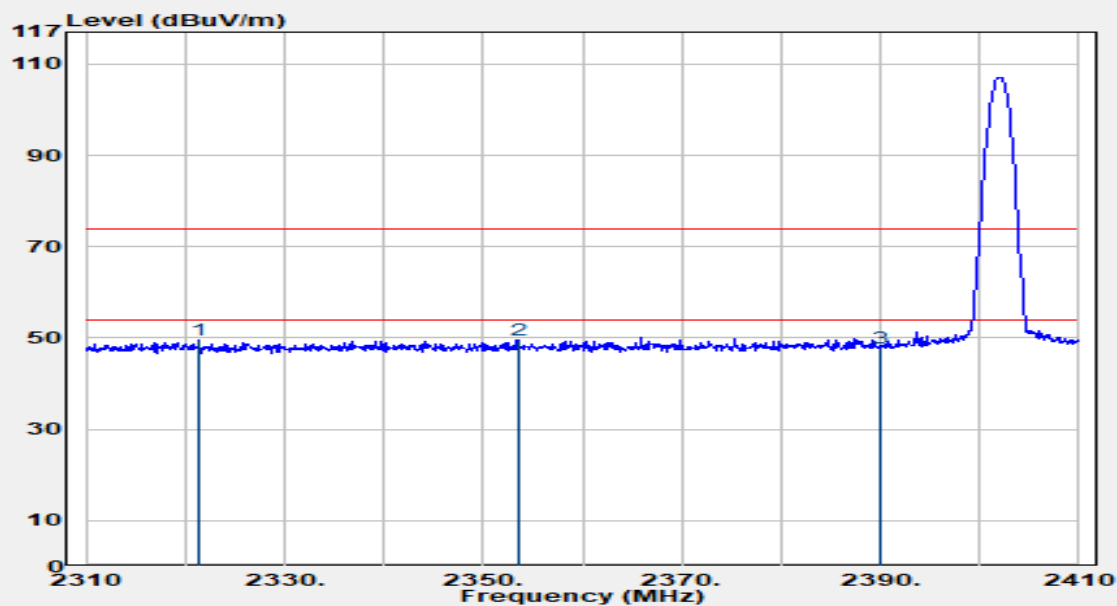
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11.6.3 Bandedge Result

ANT0 (monopole)

Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2321.400	Peak	53.93	-4.35	49.58	74.00	-24.42
2353.600	Peak	54.06	-4.38	49.68	74.00	-24.32
2390.000	Peak	51.97	-4.25	47.72	74.00	-26.28

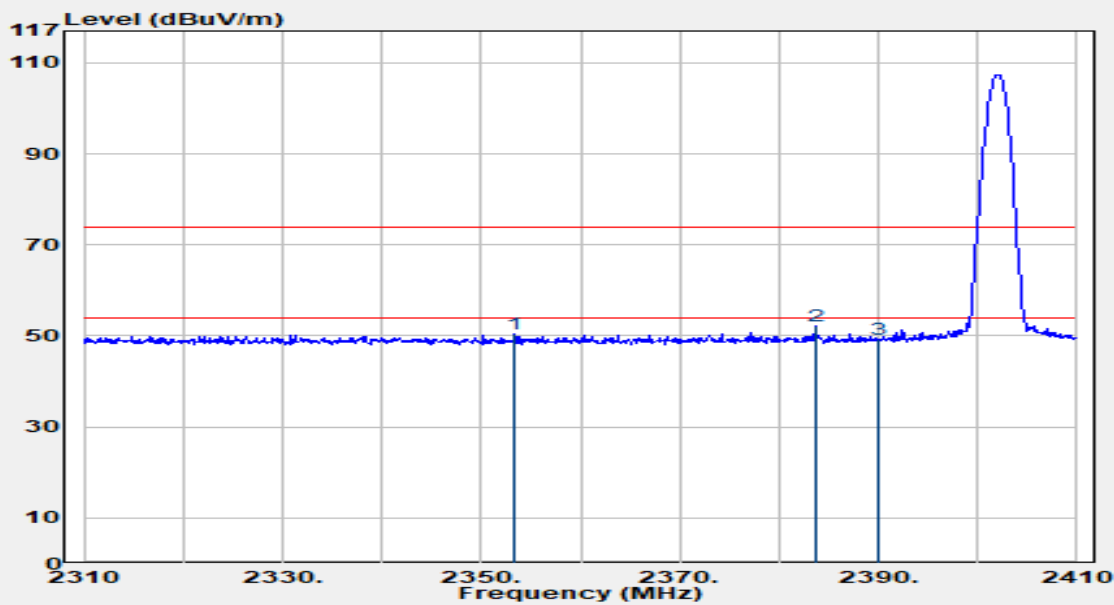
Freq. (MHz)	Detector	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2321.400	Average	49.58	-25.04	24.54	54.00	-29.46
2353.600	Average	49.68	-25.04	24.64	54.00	-29.36
2390.000	Average	47.72	-25.04	22.68	54.00	-31.32

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2353.400	Peak	54.94	-4.38	50.57	74.00	-23.43
2383.600	Peak	56.42	-4.27	52.15	74.00	-21.85
2390.000	Peak	53.63	-4.25	49.39	74.00	-24.61

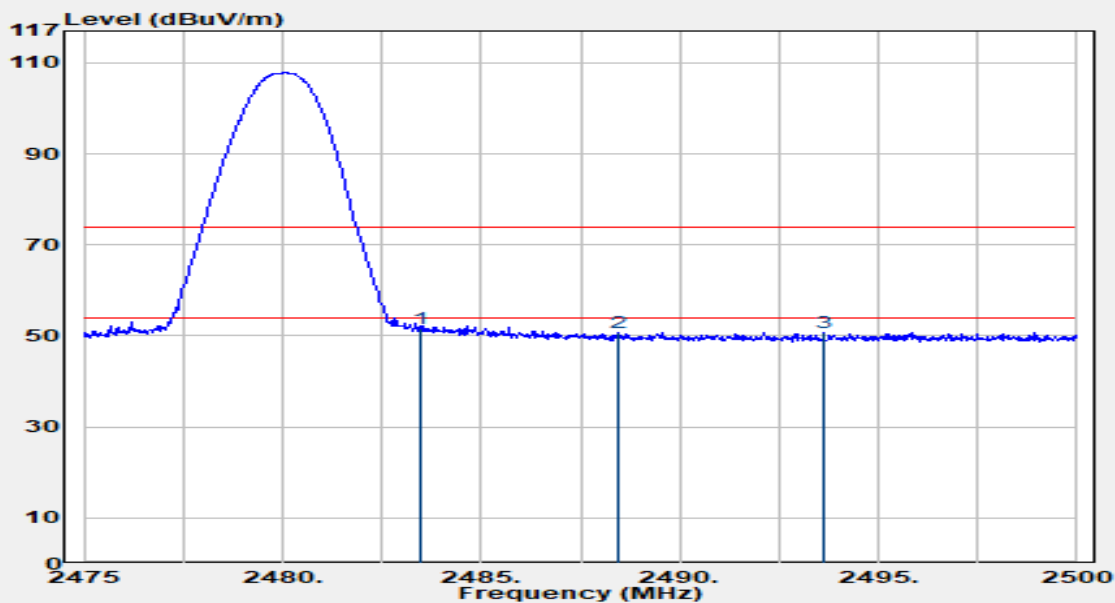
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2353.400	Average	50.57	-25.04	25.53	54.00	-28.47
2383.600	Average	52.15	-25.04	27.11	54.00	-26.89
2390.000	Average	49.39	-25.04	24.35	54.00	-29.65

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	55.74	-4.26	51.48	74.00	-22.52
2488.425	Peak	55.03	-4.22	50.81	74.00	-23.19
2493.625	Peak	55.02	-4.18	50.84	74.00	-23.16

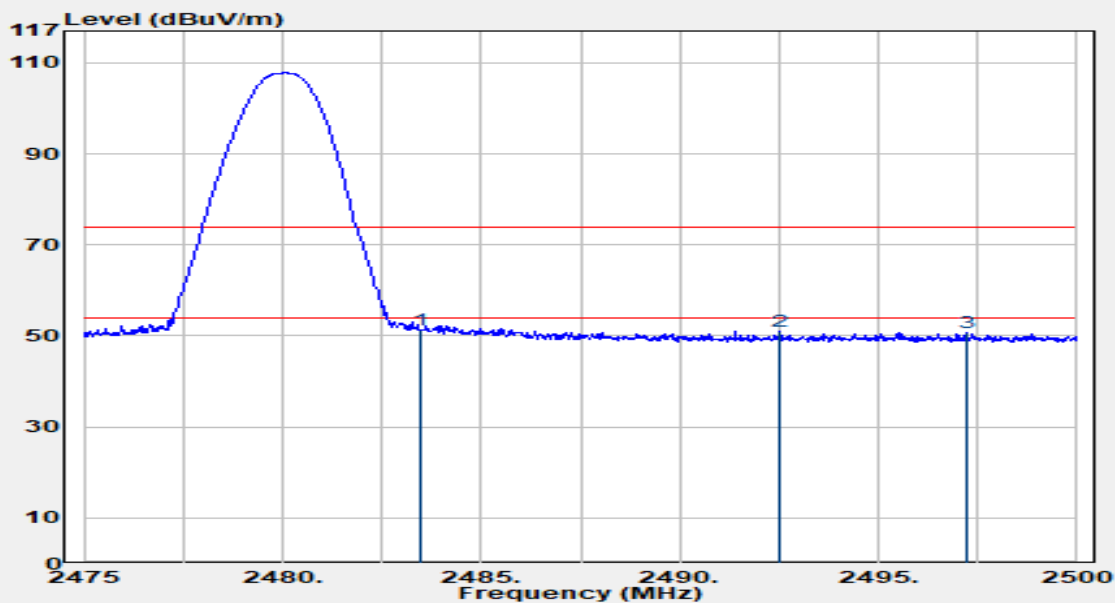
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	51.48	-25.04	26.44	54.00	-27.56
2488.425	Average	50.81	-25.04	25.77	54.00	-28.23
2493.625	Average	50.84	-25.04	25.80	54.00	-28.20

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	55.60	-4.26	51.35	74.00	-22.65
2492.525	Peak	55.31	-4.19	51.13	74.00	-22.87
2497.200	Peak	54.85	-4.15	50.69	74.00	-23.31

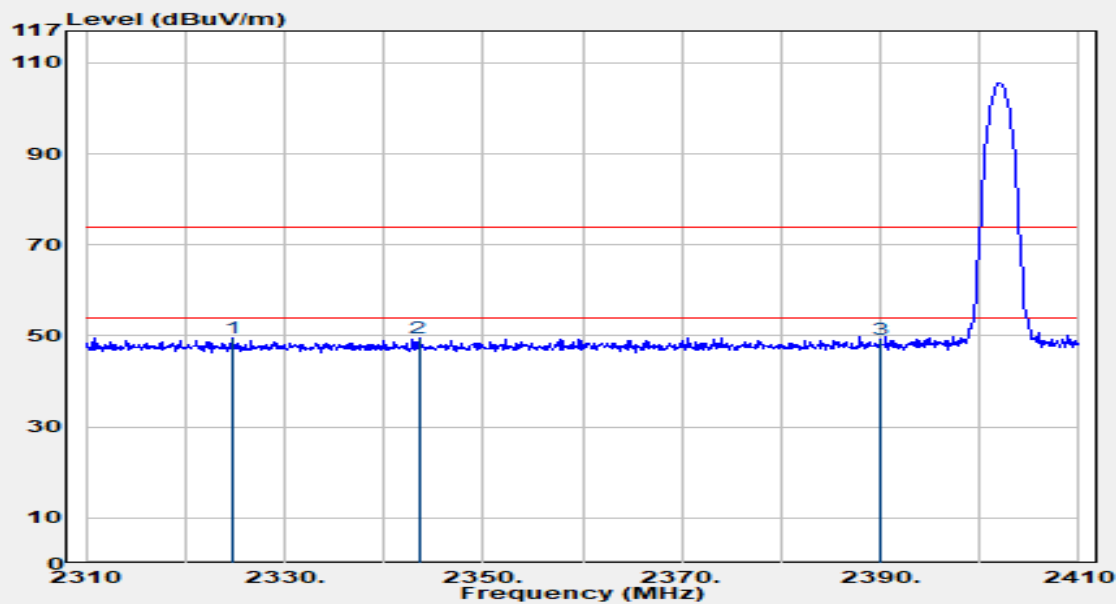
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	51.35	-25.04	26.31	54.00	-27.69
2492.525	Average	51.13	-25.04	26.09	54.00	-27.91
2497.200	Average	50.69	-25.04	25.65	54.00	-28.35

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Report Number : TERF2211002256ER
 Operation Mode : EDR 3M
 Test Frequency : 2402 MHz
 Test Mode : Bandedge
 EUT Pol : H Plane

Test Site : SAC 2
 Test Date : 2023-02-20
 Temp./Humi. : 22.7/60
 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
2324.700	Peak	54.06	-4.35	49.70	74.00	-24.30
2343.500	Peak	53.96	-4.38	49.57	74.00	-24.43
2390.000	Peak	53.54	-4.25	49.29	74.00	-24.71

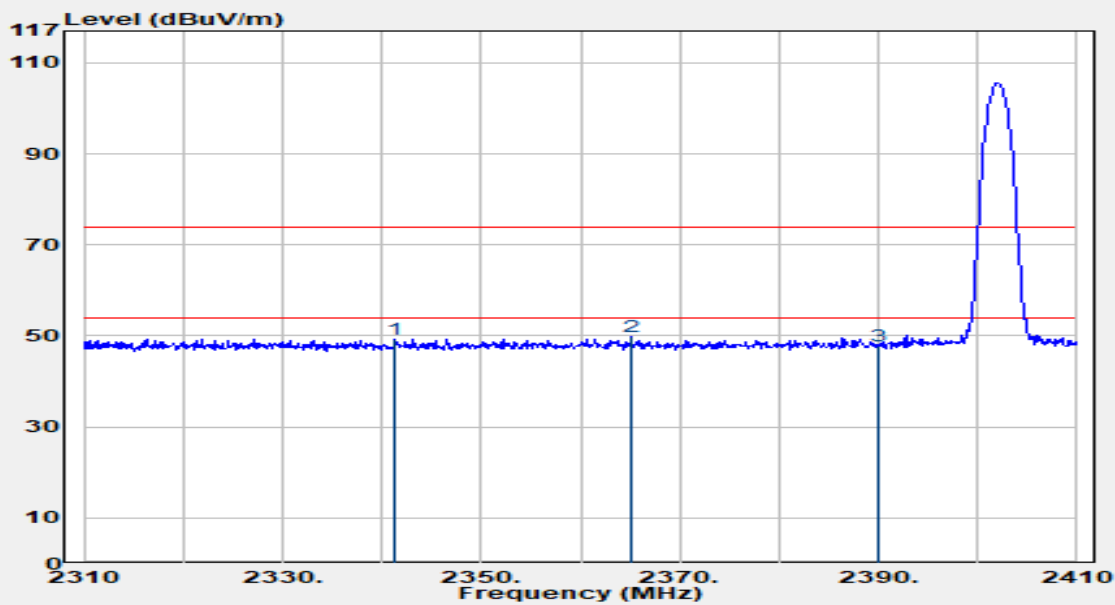
Freq. (MHz)	Detector	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2324.700	Average	49.70	-24.73	24.97	54.00	-29.03
2343.500	Average	49.57	-24.73	24.84	54.00	-29.16
2390.000	Average	49.29	-24.73	24.56	54.00	-29.44

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2341.300	Peak	53.77	-4.38	49.39	74.00	-24.61
2365.100	Peak	54.20	-4.34	49.86	74.00	-24.14
2390.000	Peak	52.11	-4.25	47.86	74.00	-26.14

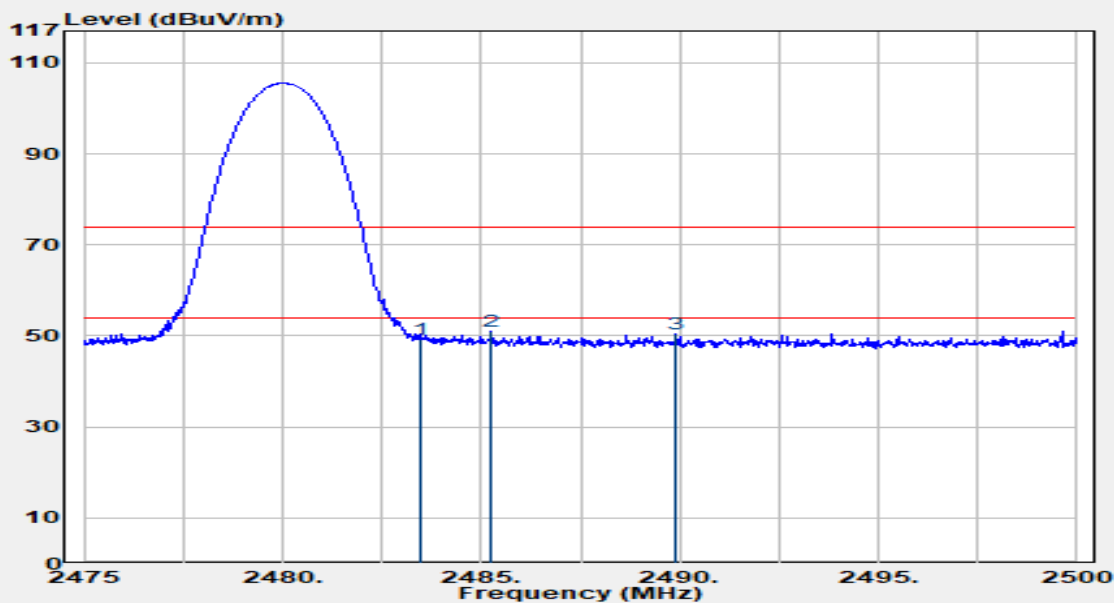
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2341.300	Average	49.39	-24.73	24.66	54.00	-29.34
2365.100	Average	49.86	-24.73	25.13	54.00	-28.87
2390.000	Average	47.86	-24.73	23.13	54.00	-30.87

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2483.500	Peak	53.63	-4.26	49.37	74.00	-24.63
2485.250	Peak	55.18	-4.24	50.93	74.00	-23.07
2489.900	Peak	54.63	-4.21	50.42	74.00	-23.58

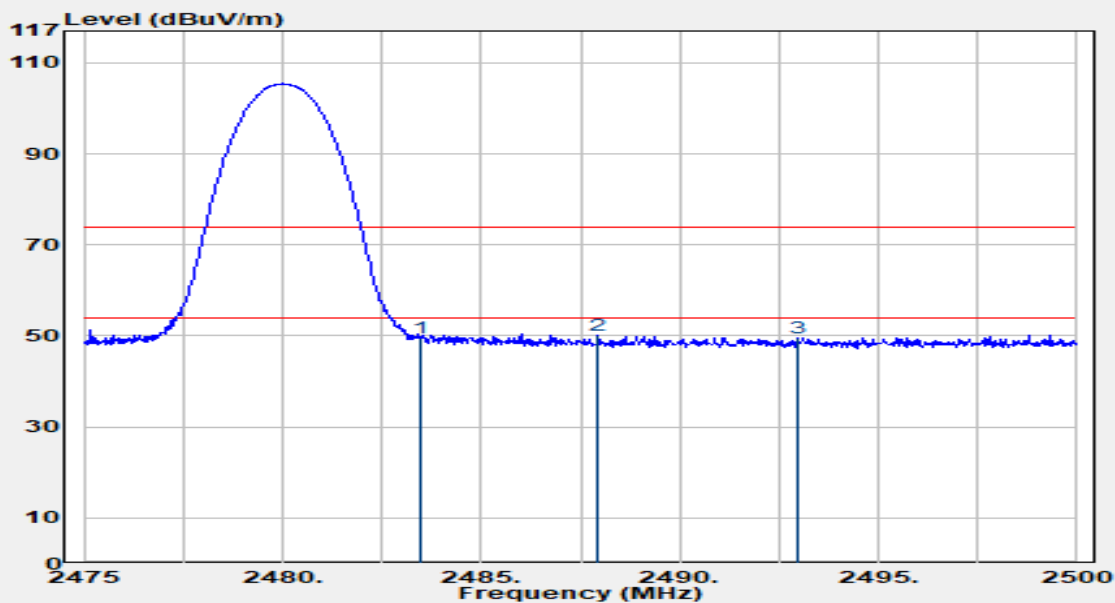
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.37	-24.73	24.64	54.00	-29.36
2485.250	Average	50.93	-24.73	26.20	54.00	-27.80
2489.900	Average	50.42	-24.73	25.69	54.00	-28.31

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2483.500	Peak	53.80	-4.26	49.54	74.00	-24.46
2487.950	Peak	54.40	-4.22	50.18	74.00	-23.82
2492.950	Peak	53.82	-4.18	49.63	74.00	-24.37

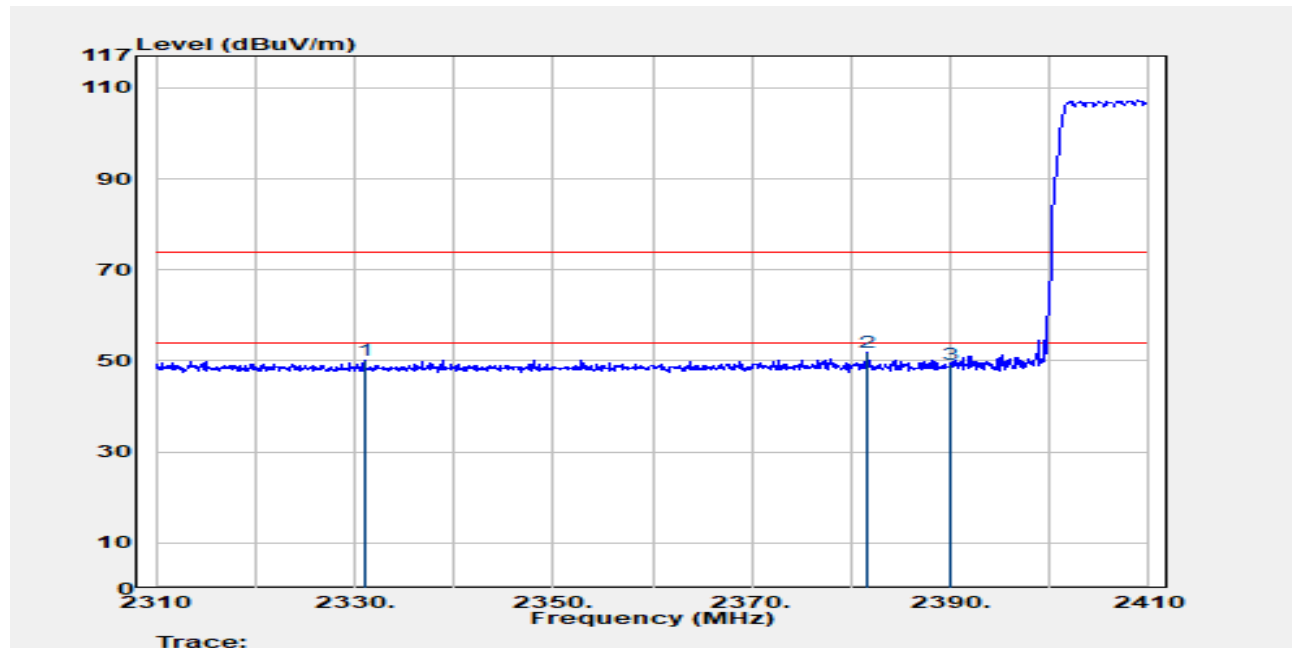
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.54	-24.73	24.81	54.00	-29.19
2487.950	Average	50.18	-24.73	25.45	54.00	-28.55
2492.950	Average	49.63	-24.73	24.90	54.00	-29.10

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2331.000	Peak	54.49	-4.36	50.12	74.00	-23.88
2381.700	Peak	56.20	-4.28	51.93	74.00	-22.07
2390.000	Peak	53.37	-4.25	49.12	74.00	-24.88

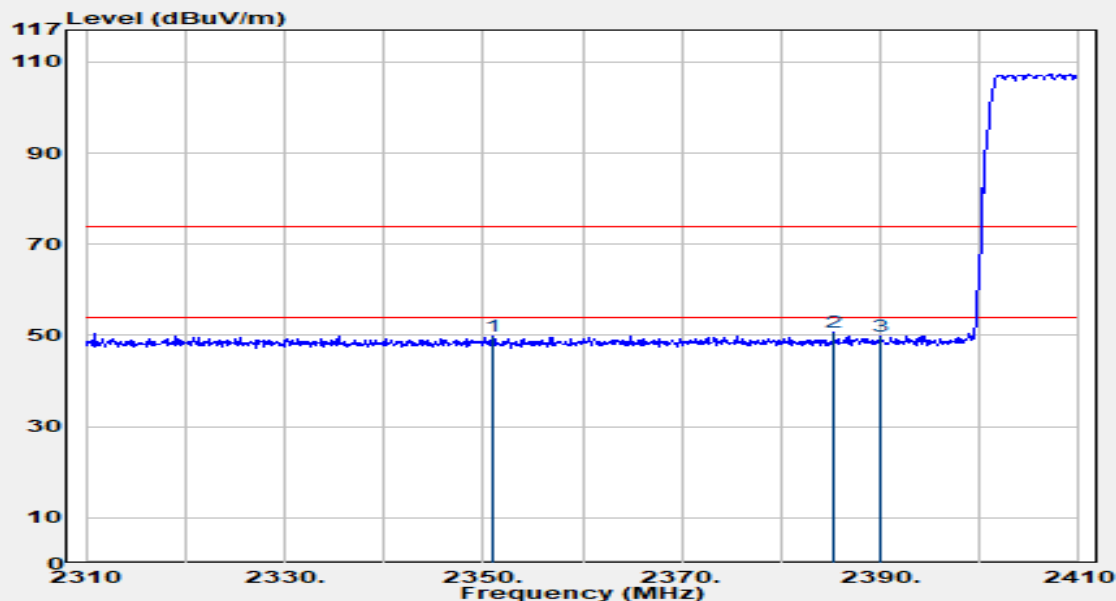
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2331.000	Average	50.12	-25.04	25.08	54.00	-28.92
2381.700	Average	51.93	-25.04	26.89	54.00	-27.11
2390.000	Average	49.12	-25.04	24.08	54.00	-29.92

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Report Number :TERF2211002256ER
Operation Mode :BR Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-20
Temp./Humi. :22.7/60
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Trace:						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2350.900	Peak	54.24	-4.39	49.85	74.00	-24.15
2385.300	Peak	55.03	-4.26	50.77	74.00	-23.23
2390.000	Peak	53.97	-4.25	49.72	74.00	-24.28

Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
(MHz)		FS	Factor	Value	Limit@3m	(dB)
		(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	
2350.900	Average	49.85	-25.04	24.81	54.00	-29.19
2385.300	Average	50.77	-25.04	25.73	54.00	-28.27
2390.000	Average	49.72	-25.04	24.68	54.00	-29.32

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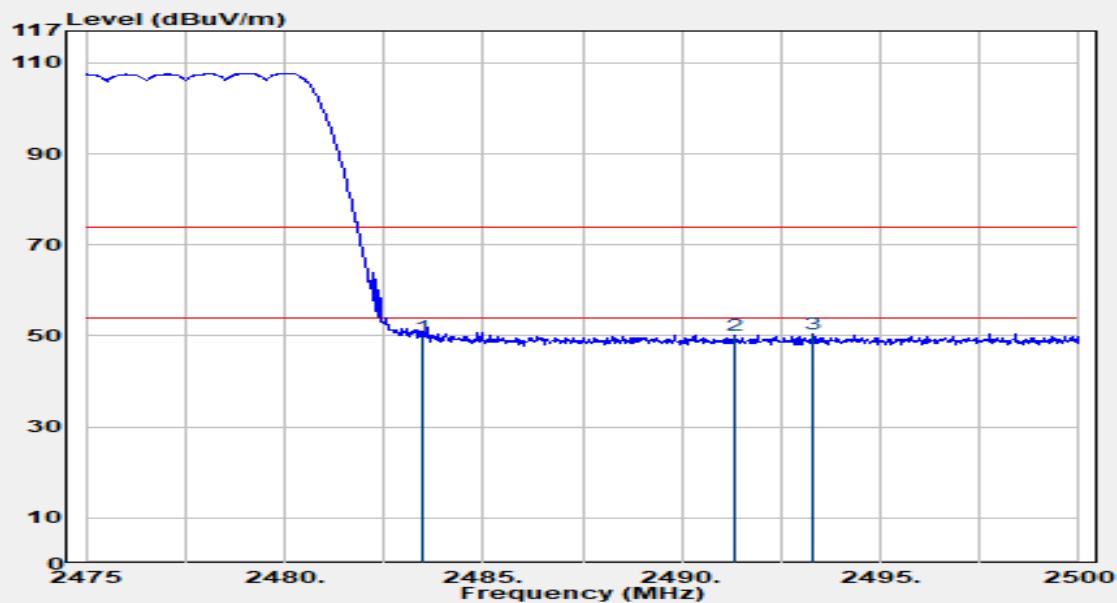
f (886-2) 2298-0488

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2483.500	Peak	54.02	-4.26	49.76	74.00	-24.24
2491.350	Peak	54.30	-4.20	50.11	74.00	-23.89
2493.300	Peak	54.62	-4.18	50.43	74.00	-23.57

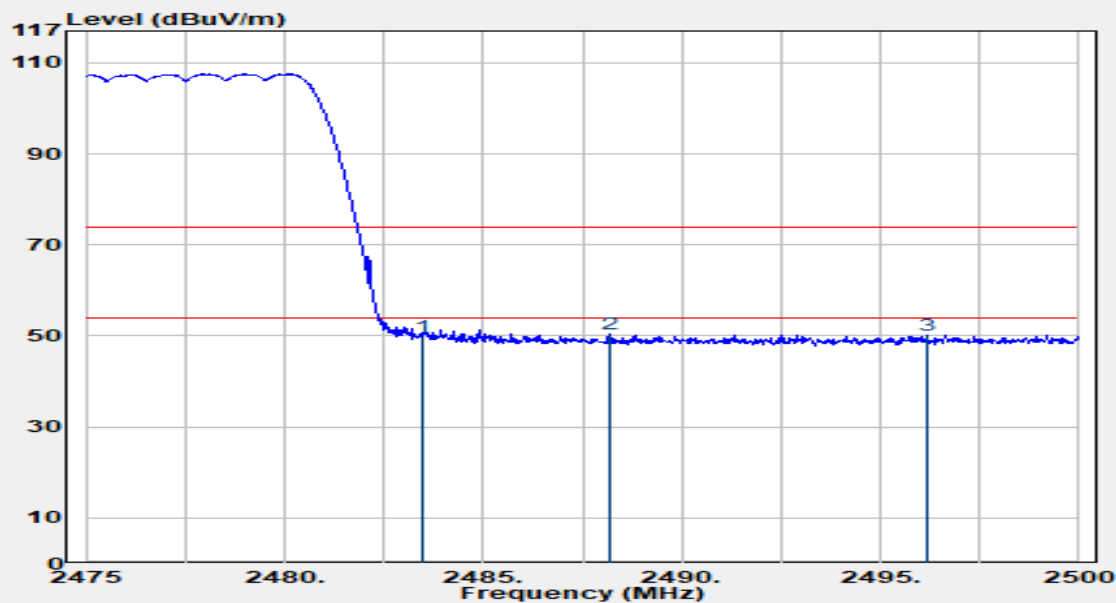
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.76	-25.04	24.72	54.00	-29.28
2491.350	Average	50.11	-25.04	25.07	54.00	-28.93
2493.300	Average	50.43	-25.04	25.39	54.00	-28.61

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	54.24	-4.26	49.98	74.00	-24.02
2488.175	Peak	54.75	-4.22	50.53	74.00	-23.47
2496.200	Peak	54.42	-4.16	50.26	74.00	-23.74

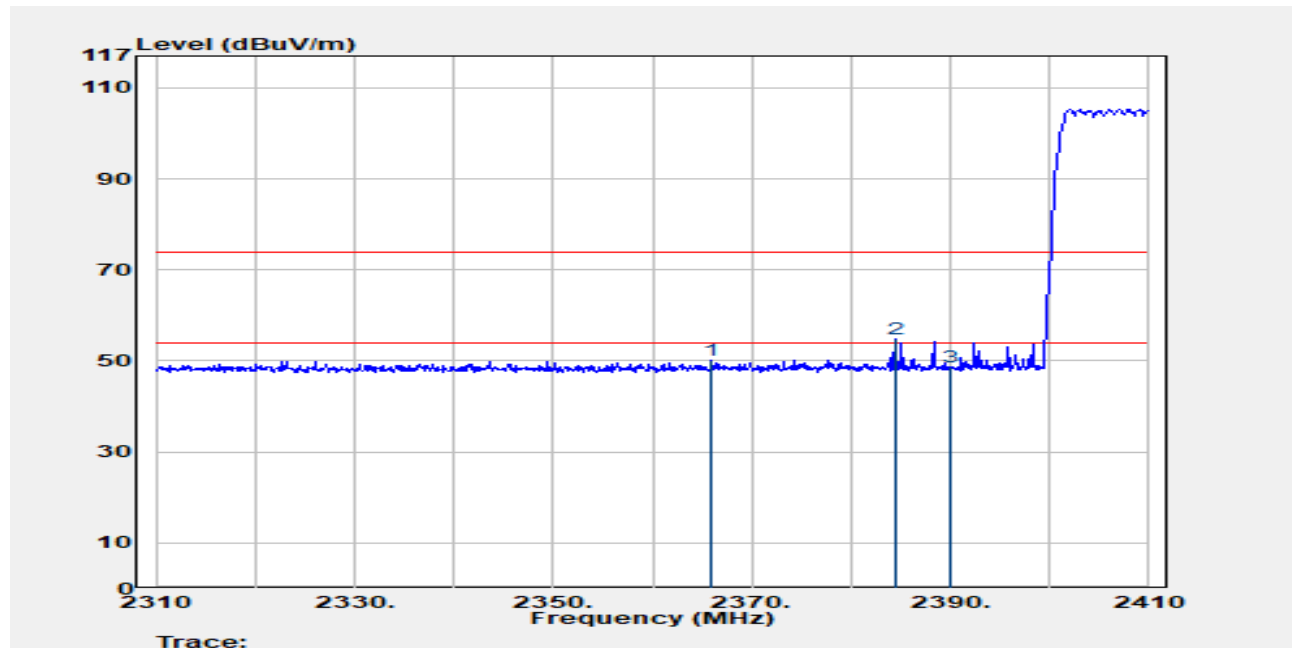
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	49.98	-25.04	24.94	54.00	-29.06
2488.175	Average	50.53	-25.04	25.49	54.00	-28.51
2496.200	Average	50.26	-25.04	25.22	54.00	-28.78

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2365.900	Peak	54.54	-4.33	50.20	74.00	-23.80
2384.400	Peak	59.04	-4.27	54.77	74.00	-19.23
2390.000	Peak	52.84	-4.25	48.60	74.00	-25.40

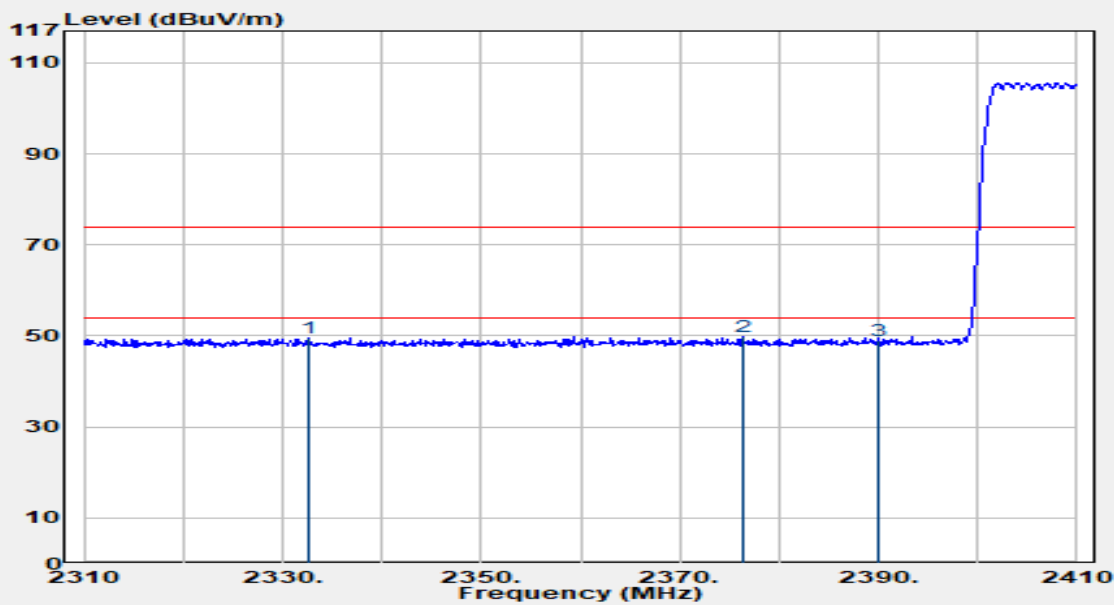
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2365.900	Average	50.20	-24.73	25.47	54.00	-28.53
2384.400	Average	54.77	-24.73	30.04	54.00	-23.96
2390.000	Average	48.60	-24.73	23.87	54.00	-30.13

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2332.600	Peak	53.86	-4.37	49.49	74.00	-24.51
2376.300	Peak	54.20	-4.29	49.90	74.00	-24.10
2390.000	Peak	53.20	-4.25	48.95	74.00	-25.05

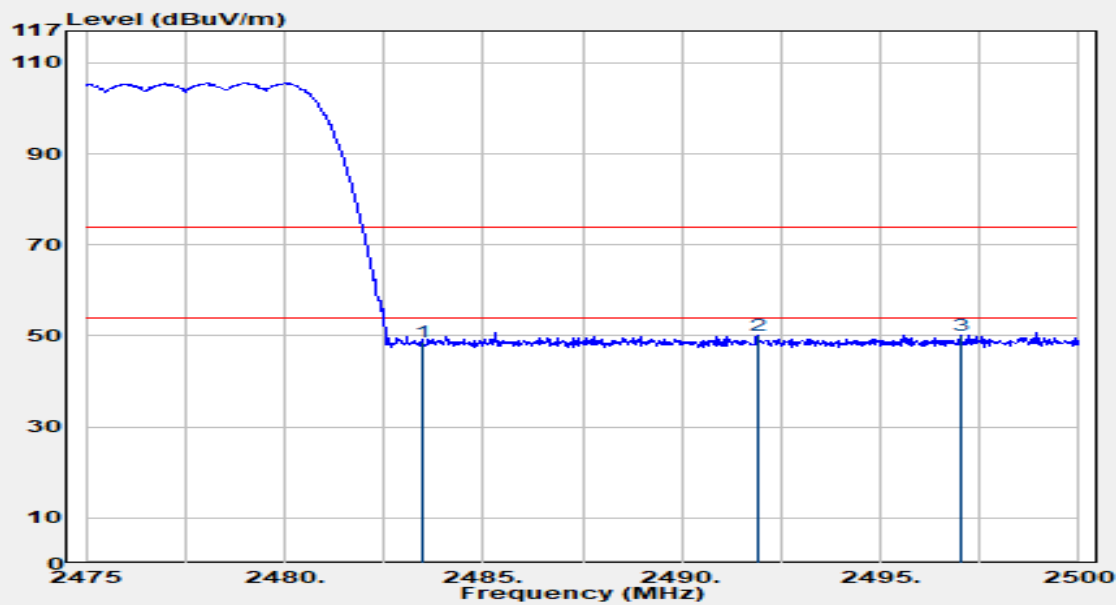
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2332.600	Average	49.49	-24.73	24.76	54.00	-29.24
2376.300	Average	49.90	-24.73	25.17	54.00	-28.83
2390.000	Average	48.95	-24.73	24.22	54.00	-29.78

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	52.81	-4.26	48.55	74.00	-25.45
2491.900	Peak	54.26	-4.19	50.07	74.00	-23.93
2497.000	Peak	54.44	-4.15	50.29	74.00	-23.71

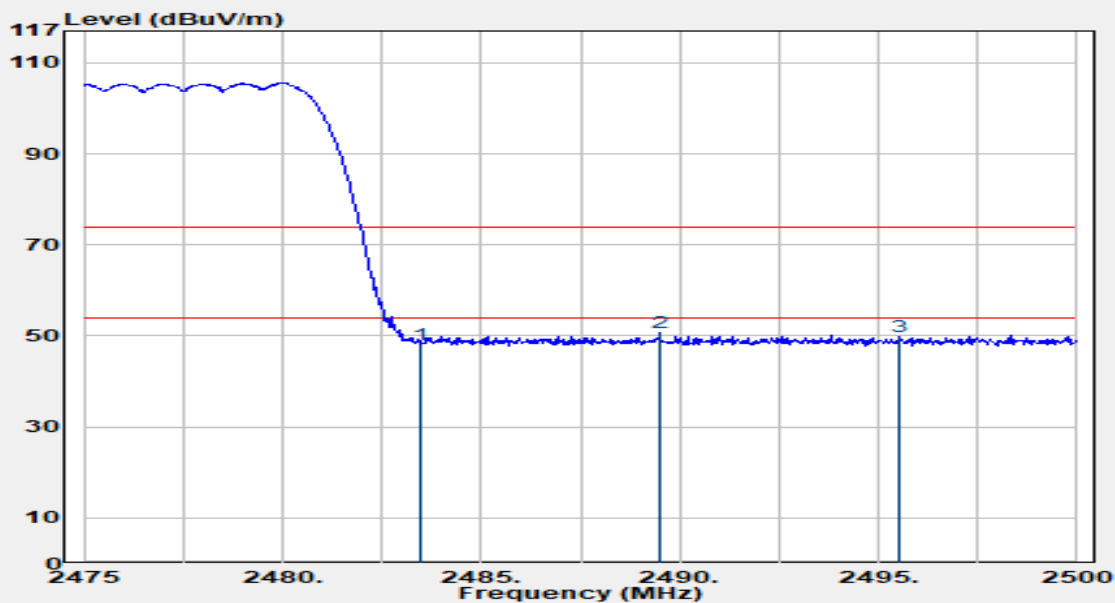
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	48.55	-24.73	23.82	54.00	-30.18
2491.900	Average	50.07	-24.73	25.34	54.00	-28.66
2497.000	Average	50.29	-24.73	25.56	54.00	-28.44

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	52.49	-4.26	48.23	74.00	-25.77
2489.500	Peak	54.97	-4.21	50.76	74.00	-23.24
2495.525	Peak	54.04	-4.16	49.88	74.00	-24.12

Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	48.23	-24.73	23.50	54.00	-30.50
2489.500	Average	50.76	-24.73	26.03	54.00	-27.97
2495.525	Average	49.88	-24.73	25.15	54.00	-28.85

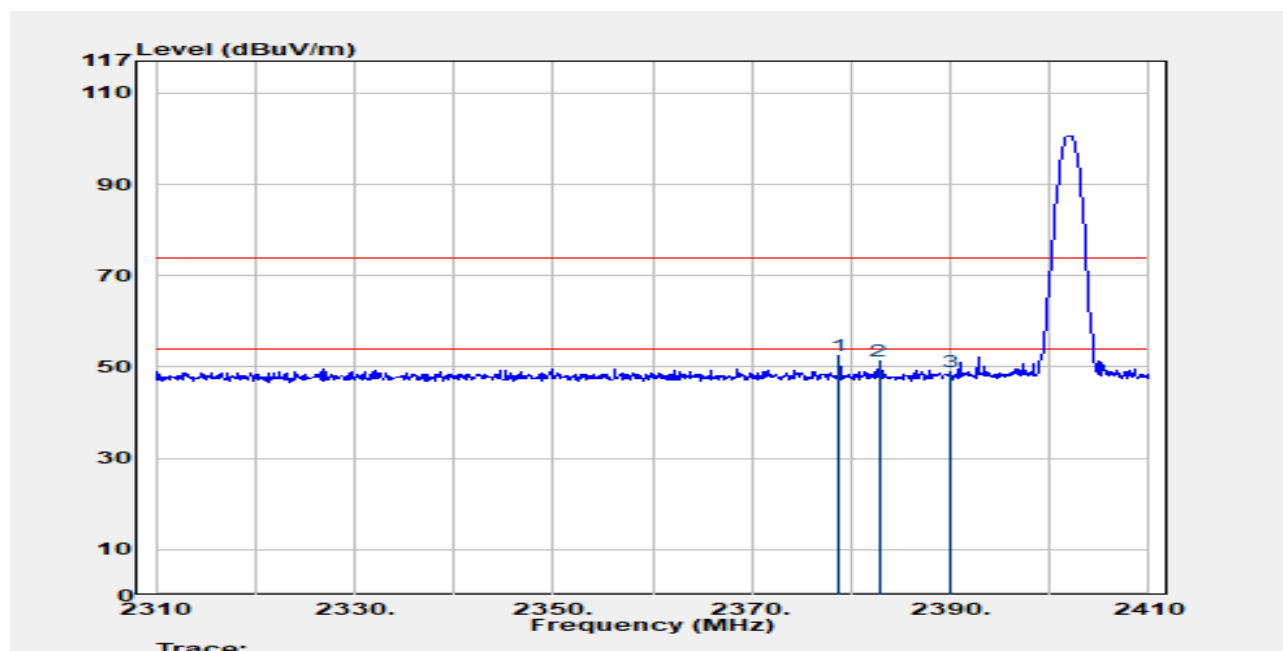
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ANT0 (dipole)

Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-20
Temp./Humi. :22.7/60
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
2378.800	Peak	56.65	-4.29	52.36	74.00	-21.64
2382.800	Peak	55.64	-4.27	51.37	74.00	-22.63
2390.000	Peak	53.27	-4.25	49.02	74.00	-24.98

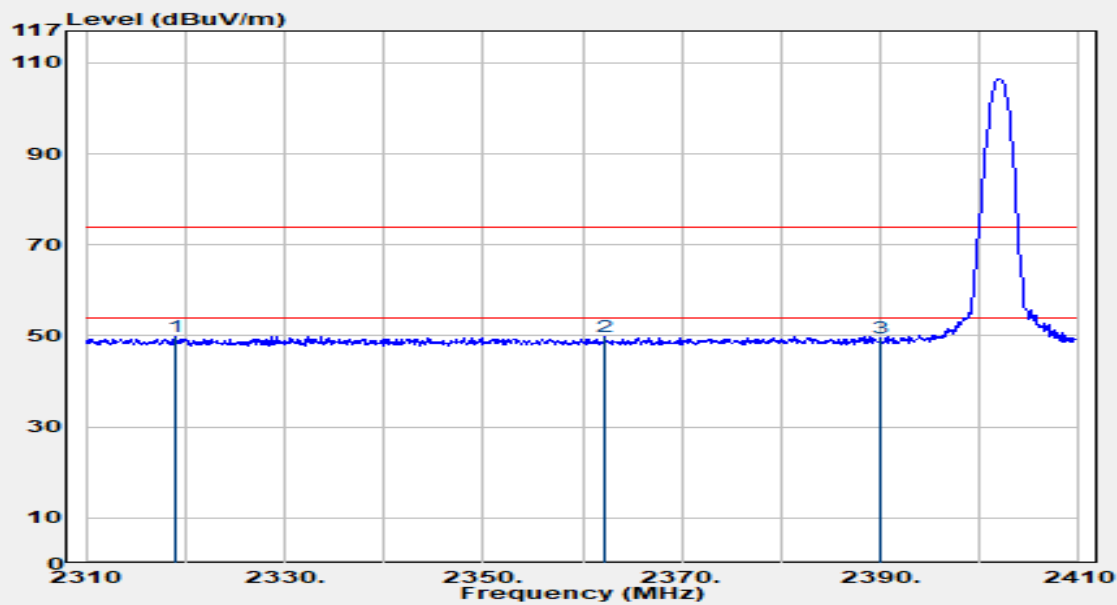
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2378.800	Average	52.36	-25.04	27.32	54.00	-26.68
2382.800	Average	51.37	-25.04	26.33	54.00	-27.67
2390.000	Average	49.02	-25.04	23.98	54.00	-30.02

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Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-20
Temp./Humi. :22.7/60
Antenna Pol. :Horizontal
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
2318.900	Peak	54.30	-4.35	49.95	74.00	-24.05
2362.300	Peak	54.08	-4.35	49.73	74.00	-24.27
2390.000	Peak	53.86	-4.25	49.62	74.00	-24.38

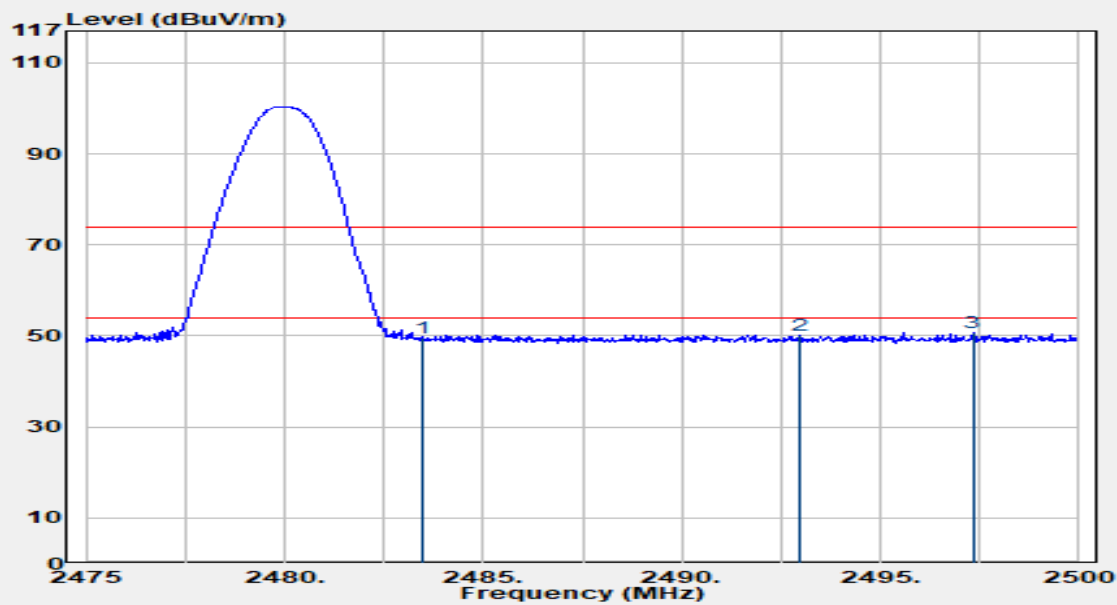
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2318.900	Average	49.95	-25.04	24.91	54.00	-29.09
2362.300	Average	49.73	-25.04	24.69	54.00	-29.31
2390.000	Average	49.62	-25.04	24.58	54.00	-29.42

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2483.500	Peak	53.71	-4.26	49.45	74.00	-24.55
2492.975	Peak	54.40	-4.18	50.21	74.00	-23.79
2497.325	Peak	54.89	-4.15	50.74	74.00	-23.26

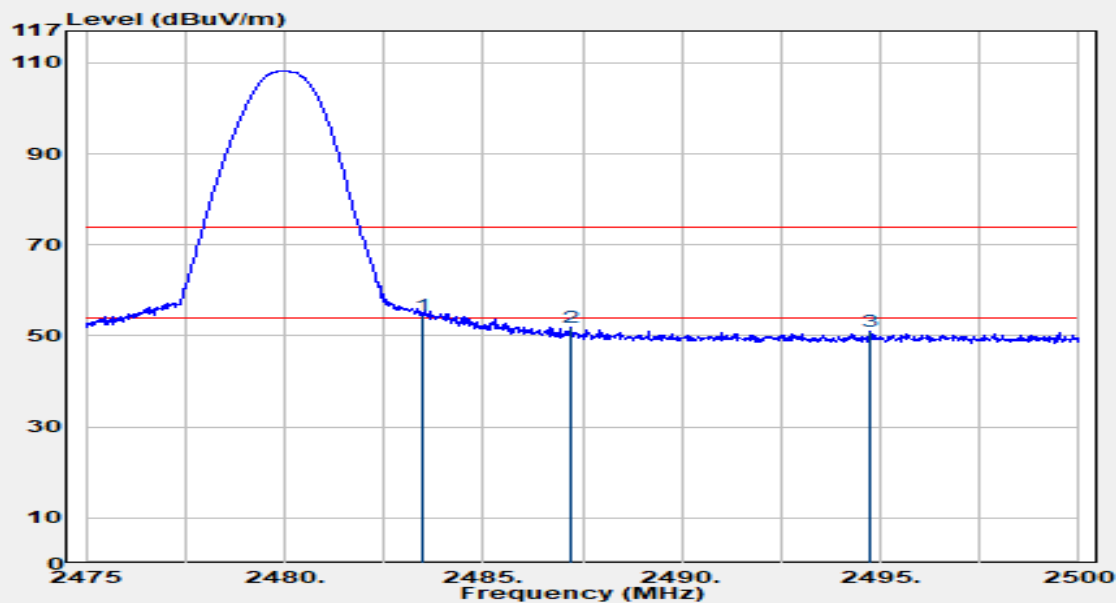
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	49.45	-25.04	24.41	54.00	-29.59
2492.975	Average	50.21	-25.04	25.17	54.00	-28.83
2497.325	Average	50.74	-25.04	25.70	54.00	-28.30

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2483.500	Peak	58.84	-4.26	54.58	74.00	-19.42
2487.225	Peak	56.21	-4.23	51.98	74.00	-22.02
2494.750	Peak	55.05	-4.17	50.88	74.00	-23.12

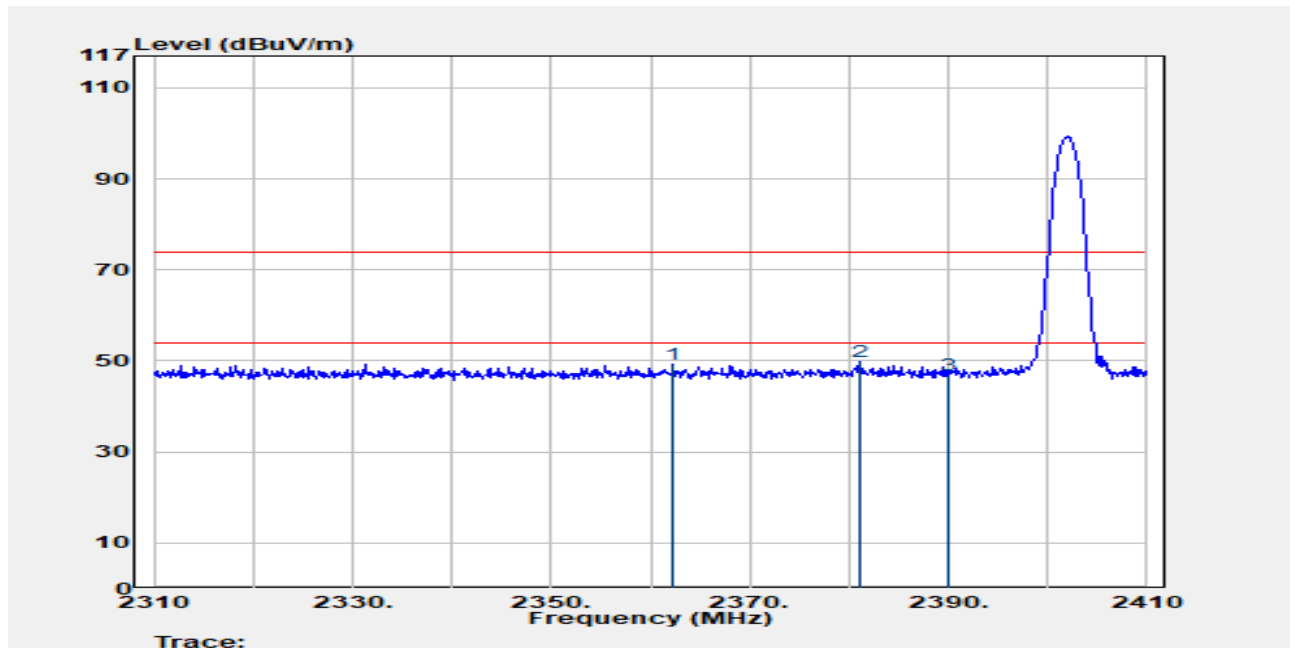
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	54.58	-25.04	29.54	54.00	-24.46
2487.225	Average	51.98	-25.04	26.94	54.00	-27.06
2494.750	Average	50.88	-25.04	25.84	54.00	-28.16

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-20
Temp./Humi. :22.7/60
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
2362.300	Peak	53.70	-4.35	49.35	74.00	-24.65
2381.200	Peak	54.11	-4.28	49.84	74.00	-24.16
2390.000	Peak	51.03	-4.25	46.79	74.00	-27.21

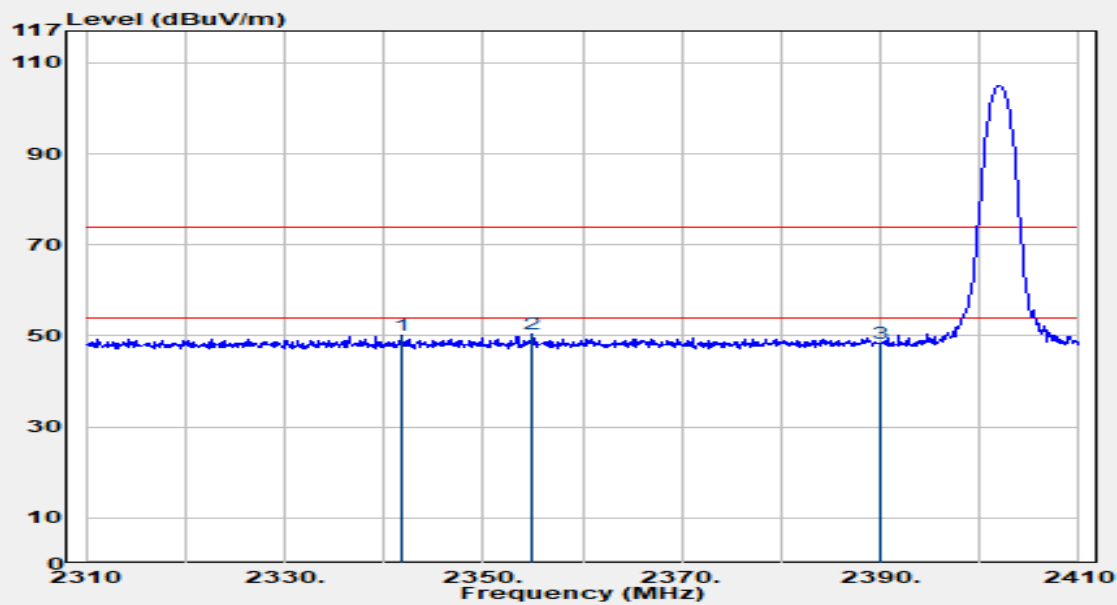
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2362.300	Average	49.35	-25.04	24.31	54.00	-29.69
2381.200	Average	49.84	-25.04	24.80	54.00	-29.20
2390.000	Average	46.79	-25.04	21.75	54.00	-32.25

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2341.700	Peak	54.51	-4.38	50.14	74.00	-23.86
2355.000	Peak	54.71	-4.37	50.34	74.00	-23.66
2390.000	Peak	52.56	-4.25	48.32	74.00	-25.68

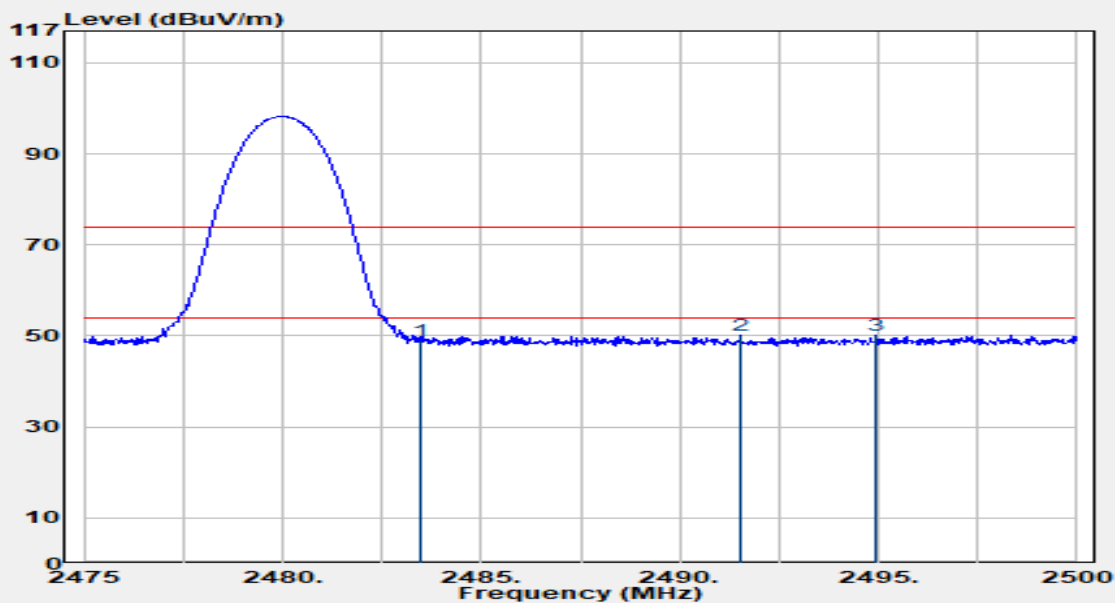
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2341.700	Average	50.14	-25.04	25.10	54.00	-28.90
2355.000	Average	50.34	-25.04	25.30	54.00	-28.70
2390.000	Average	48.32	-25.04	23.28	54.00	-30.72

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2483.500	Peak	53.24	-4.26	48.98	74.00	-25.02
2491.525	Peak	54.19	-4.20	50.00	74.00	-24.00
2494.950	Peak	54.28	-4.17	50.11	74.00	-23.89

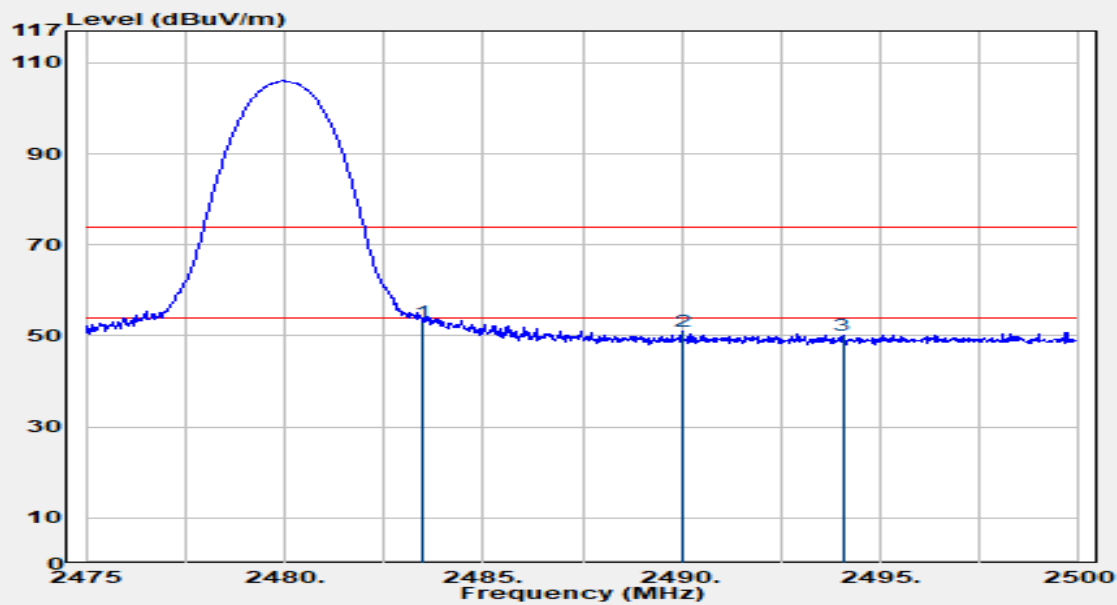
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.98	-25.04	23.94	54.00	-30.06
2491.525	Average	50.00	-25.04	24.96	54.00	-29.04
2494.950	Average	50.11	-25.04	25.07	54.00	-28.93

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	57.26	-4.26	53.00	74.00	-21.00
2490.025	Peak	55.27	-4.21	51.07	74.00	-22.93
2494.050	Peak	54.38	-4.18	50.20	74.00	-23.80

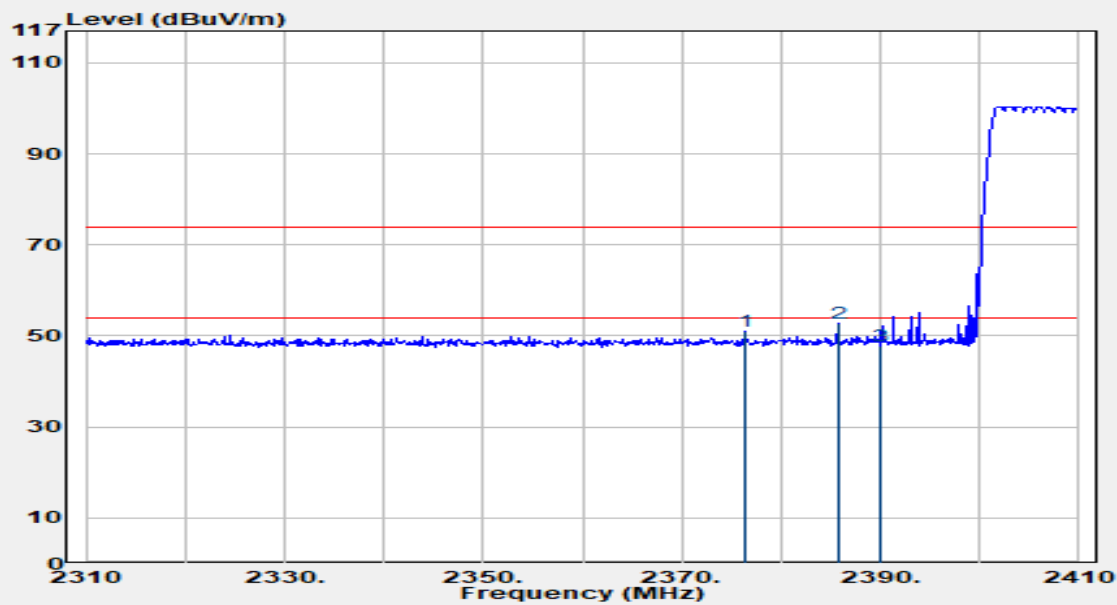
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	53.00	-25.04	27.96	54.00	-26.04
2490.025	Average	51.07	-25.04	26.03	54.00	-27.97
2494.050	Average	50.20	-25.04	25.16	54.00	-28.84

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2376.400	Peak	55.36	-4.29	51.07	74.00	-22.93
2385.700	Peak	56.98	-4.26	52.72	74.00	-21.28
2390.000	Peak	52.15	-4.25	47.90	74.00	-26.10

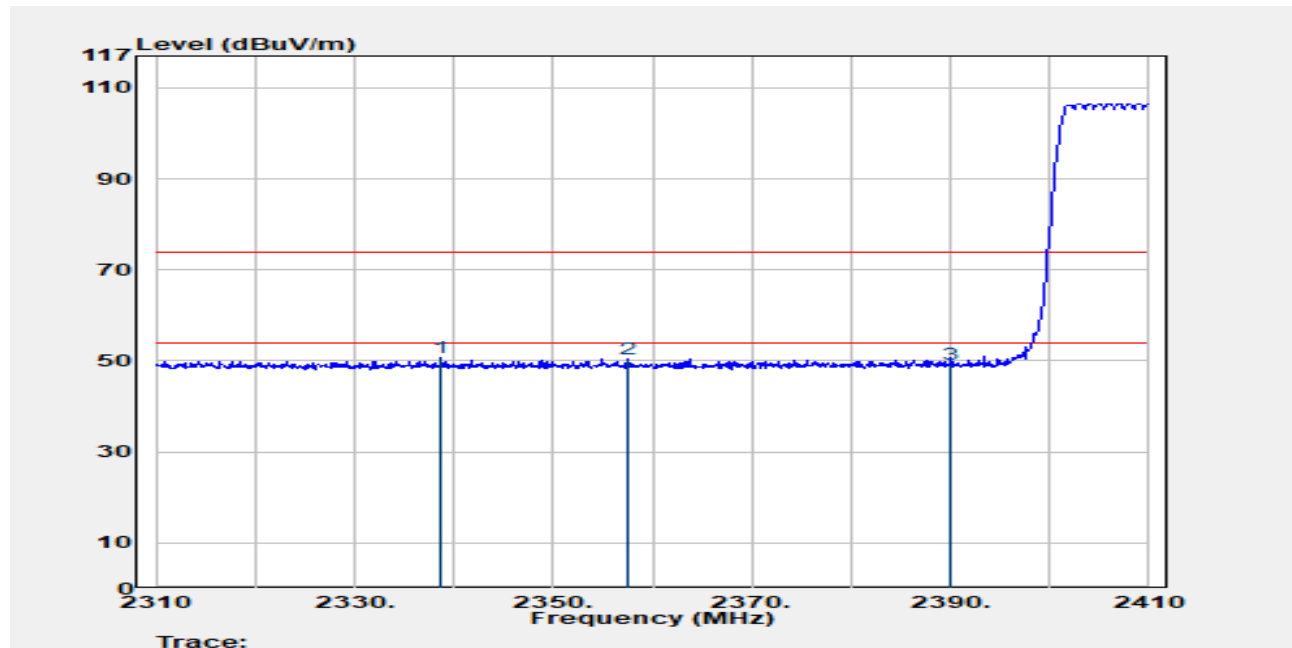
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2376.400	Average	51.07	-25.04	26.03	54.00	-27.97
2385.700	Average	52.72	-25.04	27.68	54.00	-26.32
2390.000	Average	47.90	-25.04	22.86	54.00	-31.14

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2338.700	Peak	55.08	-4.37	50.71	74.00	-23.29
2357.600	Peak	54.86	-4.36	50.50	74.00	-23.50
2390.000	Peak	53.37	-4.25	49.12	74.00	-24.88

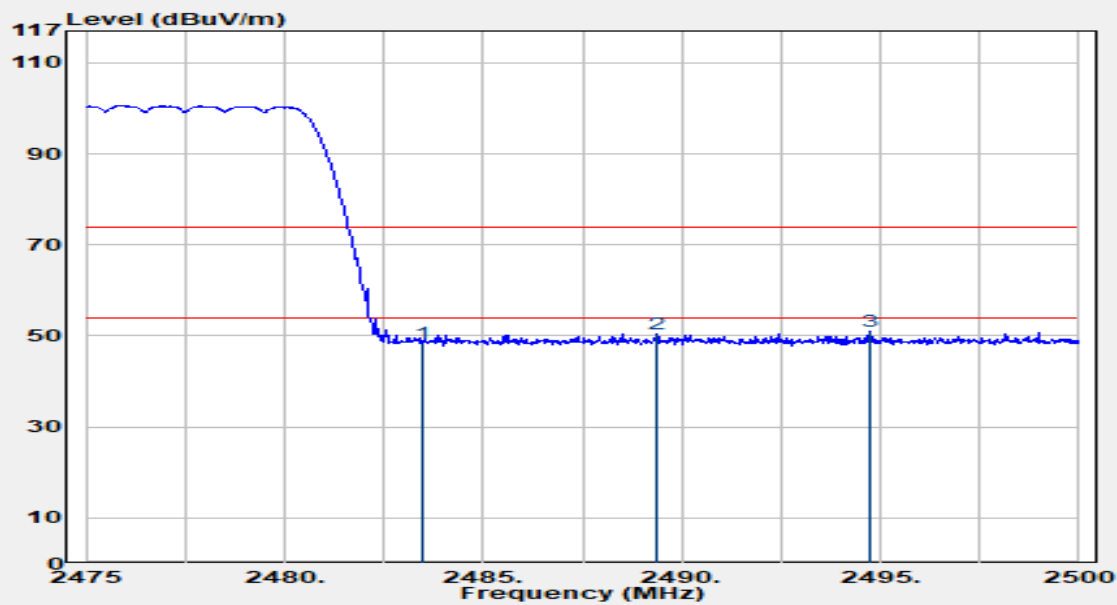
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2338.700	Average	50.71	-25.04	25.67	54.00	-28.33
2357.600	Average	50.50	-25.04	25.46	54.00	-28.54
2390.000	Average	49.12	-25.04	24.08	54.00	-29.92

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2483.500	Peak	52.76	-4.26	48.51	74.00	-25.49
2489.375	Peak	54.69	-4.21	50.47	74.00	-23.53
2494.750	Peak	55.09	-4.17	50.92	74.00	-23.08

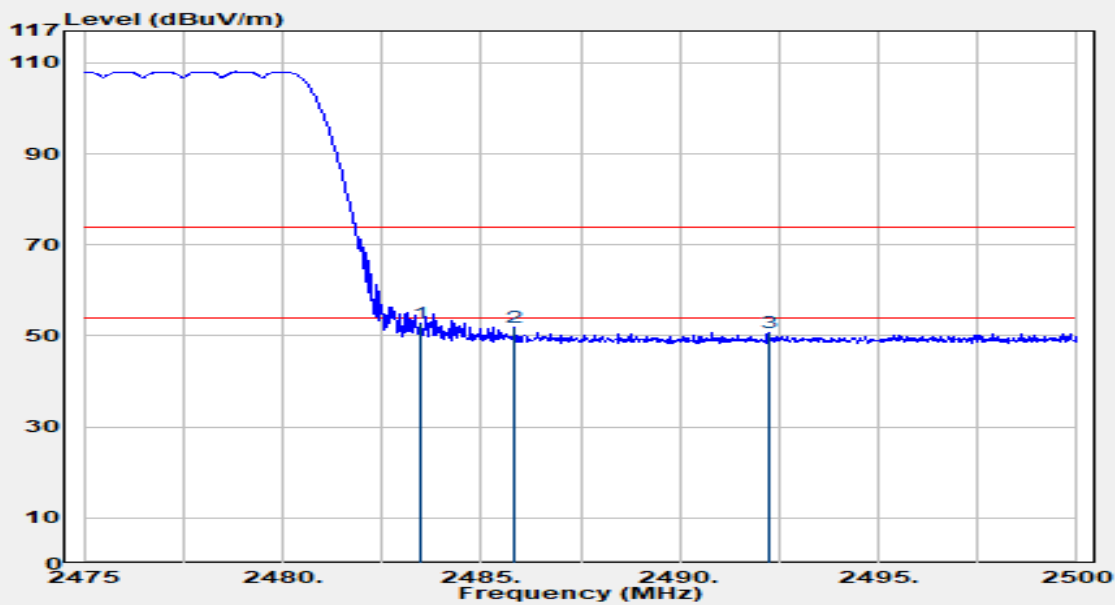
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.51	-25.04	23.47	54.00	-30.53
2489.375	Average	50.47	-25.04	25.43	54.00	-28.57
2494.750	Average	50.92	-25.04	25.88	54.00	-28.12

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	57.12	-4.26	52.86	74.00	-21.14
2485.850	Peak	56.22	-4.24	51.98	74.00	-22.02
2492.225	Peak	54.85	-4.19	50.66	74.00	-23.34

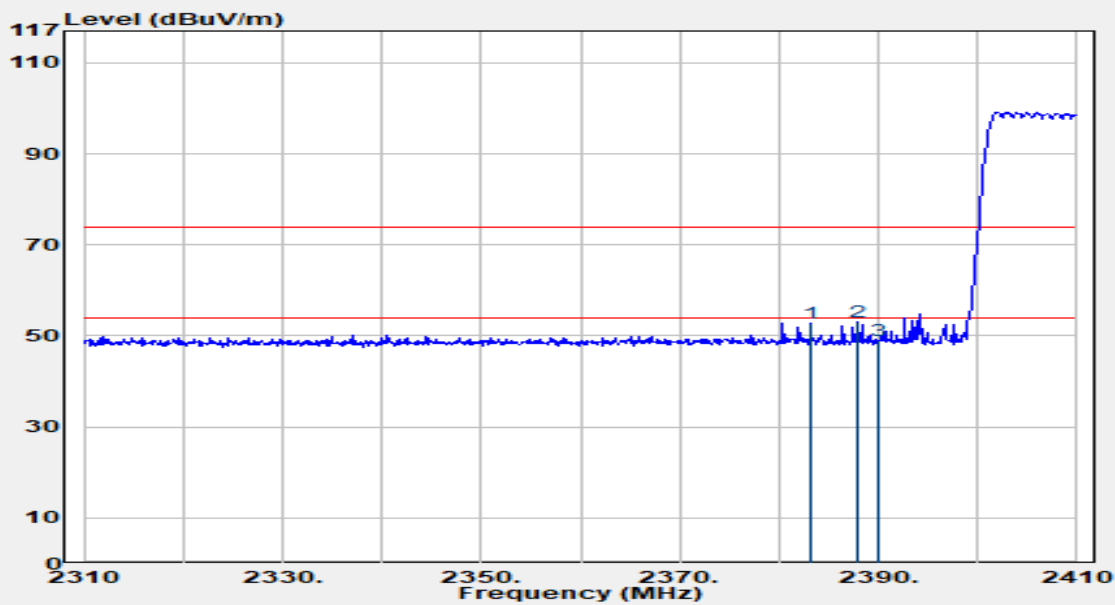
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	52.86	-25.04	27.82	54.00	-26.18
2485.850	Average	51.98	-25.04	26.94	54.00	-27.06
2492.225	Average	50.66	-25.04	25.62	54.00	-28.38

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2383.200	Peak	57.13	-4.27	52.86	74.00	-21.14
2388.000	Peak	57.33	-4.25	53.07	74.00	-20.93
2390.000	Peak	53.13	-4.25	48.89	74.00	-25.11

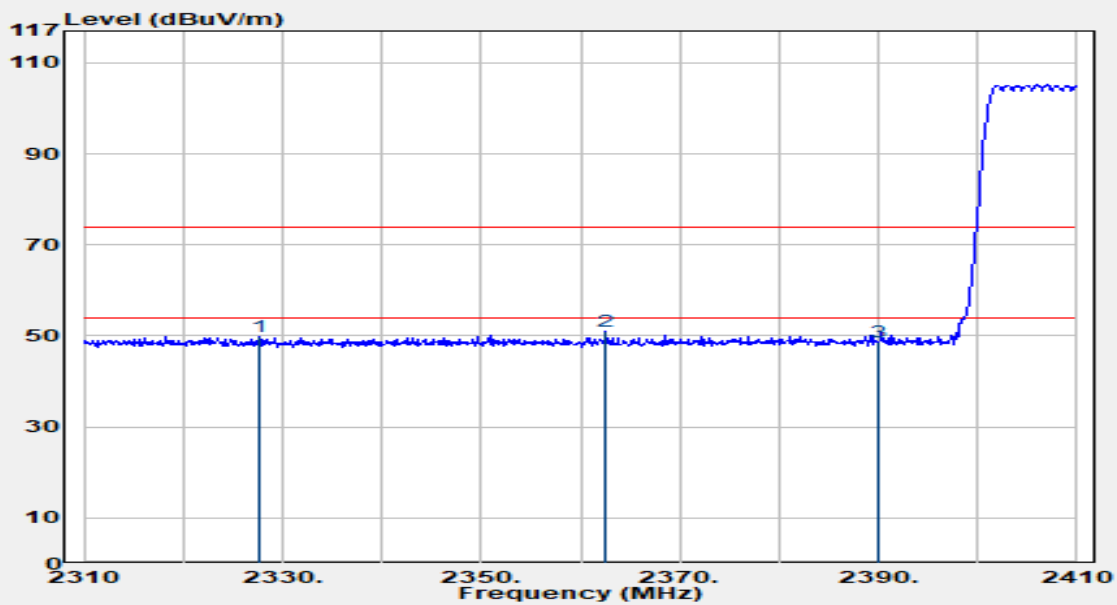
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2383.200	Average	52.86	-25.04	27.82	54.00	-26.18
2388.000	Average	53.07	-25.04	28.03	54.00	-25.97
2390.000	Average	48.89	-25.04	23.85	54.00	-30.15

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-20
Temp./Humi. :22.7/60
Antenna Pol. :Horizontal
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
2327.700	Peak	54.19	-4.36	49.83	74.00	-24.17
2362.600	Peak	55.28	-4.34	50.93	74.00	-23.07
2390.000	Peak	52.84	-4.25	48.59	74.00	-25.41

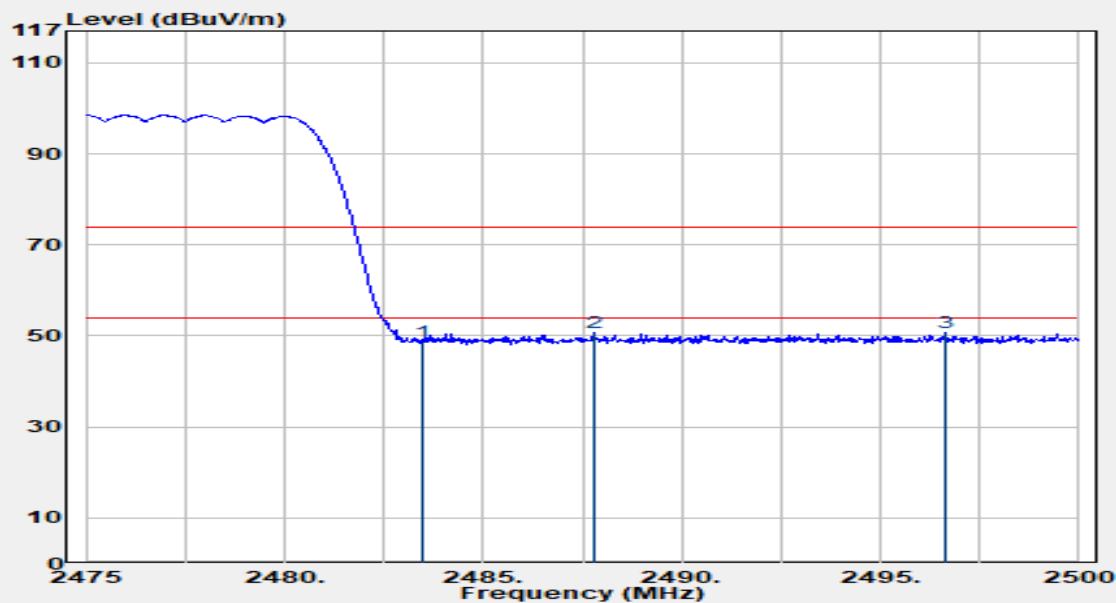
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2327.700	Average	49.83	-25.04	24.79	54.00	-29.21
2362.600	Average	50.93	-25.04	25.89	54.00	-28.11
2390.000	Average	48.59	-25.04	23.55	54.00	-30.45

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 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
2483.500	Peak	52.89	-4.26	48.63	74.00	-25.37
2487.775	Peak	54.82	-4.22	50.59	74.00	-23.41
2496.625	Peak	54.85	-4.16	50.69	74.00	-23.31

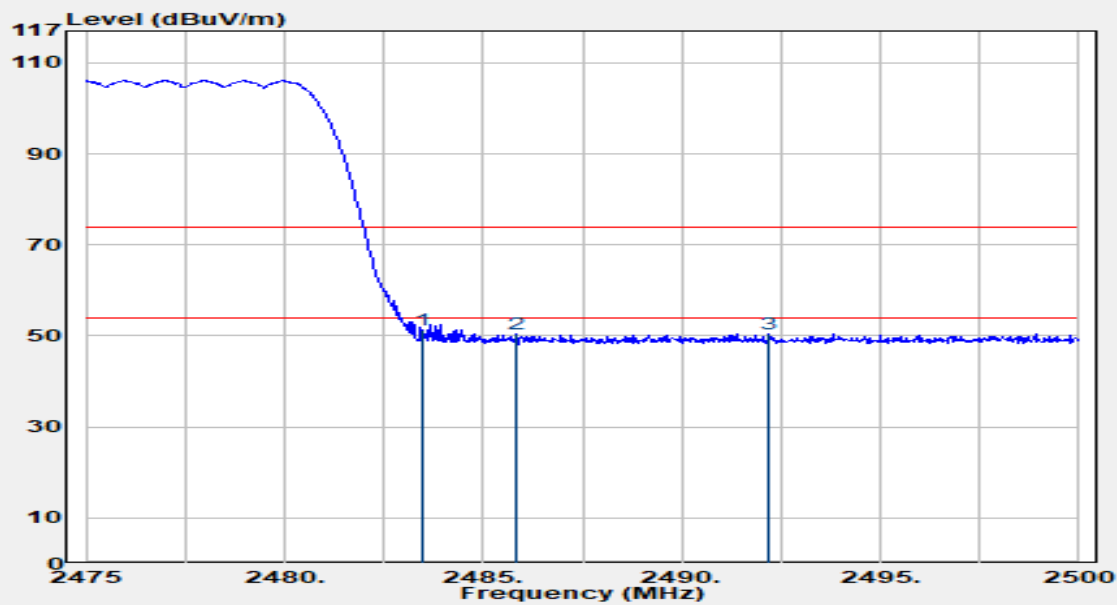
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	48.63	-25.04	23.59	54.00	-30.41
2487.775	Average	50.59	-25.04	25.55	54.00	-28.45
2496.625	Average	50.69	-25.04	25.65	54.00	-28.35

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-20
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 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
2483.500	Peak	55.67	-4.26	51.41	74.00	-22.59
2485.850	Peak	54.65	-4.24	50.41	74.00	-23.59
2492.200	Peak	54.72	-4.19	50.53	74.00	-23.47

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	51.41	-25.04	26.37	54.00	-27.63
2485.850	Average	50.41	-25.04	25.37	54.00	-28.63
2492.200	Average	50.53	-25.04	25.49	54.00	-28.51

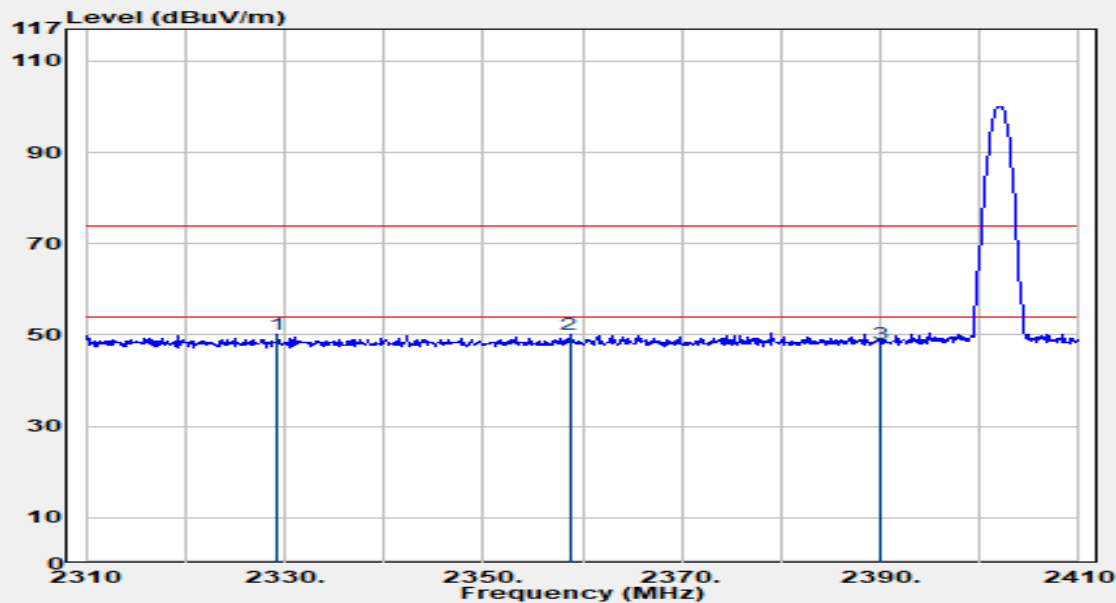
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BT_ANT (dipole)

Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 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
2329.300	Peak	54.36	-4.36	50.00	74.00	-24.00
2358.700	Peak	54.42	-4.36	50.06	74.00	-23.94
2390.000	Peak	52.41	-4.25	48.16	74.00	-25.84

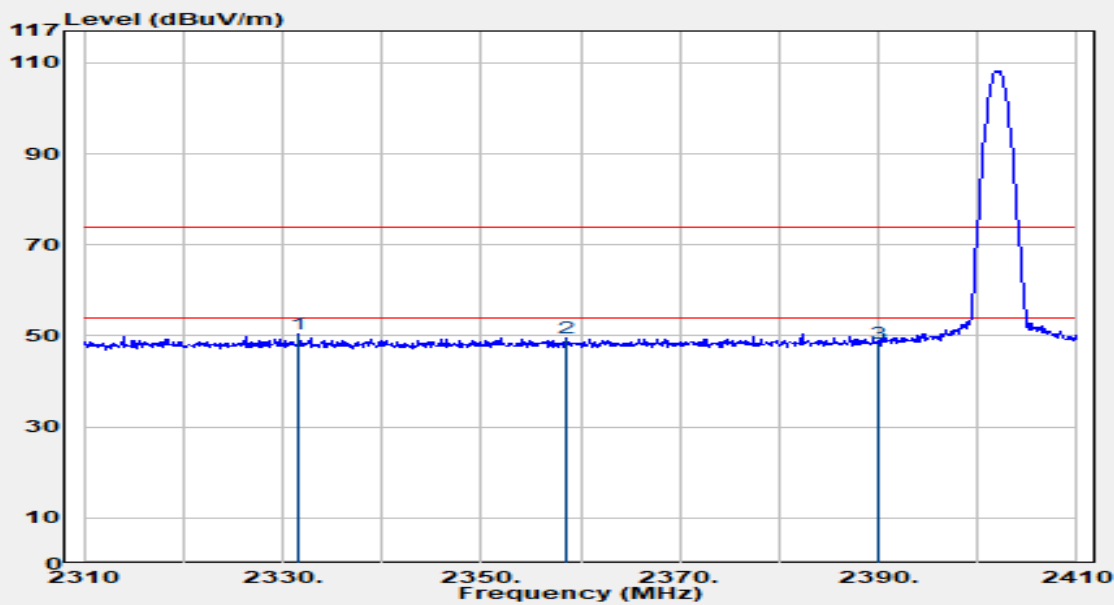
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2329.300	Average	50.00	-24.73	25.27	54.00	-28.73
2358.700	Average	50.06	-24.73	25.33	54.00	-28.67
2390.000	Average	48.16	-24.73	23.43	54.00	-30.57

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2331.700	Peak	54.79	-4.36	50.42	74.00	-23.58
2358.600	Peak	53.85	-4.36	49.49	74.00	-24.51
2390.000	Peak	52.68	-4.25	48.44	74.00	-25.56

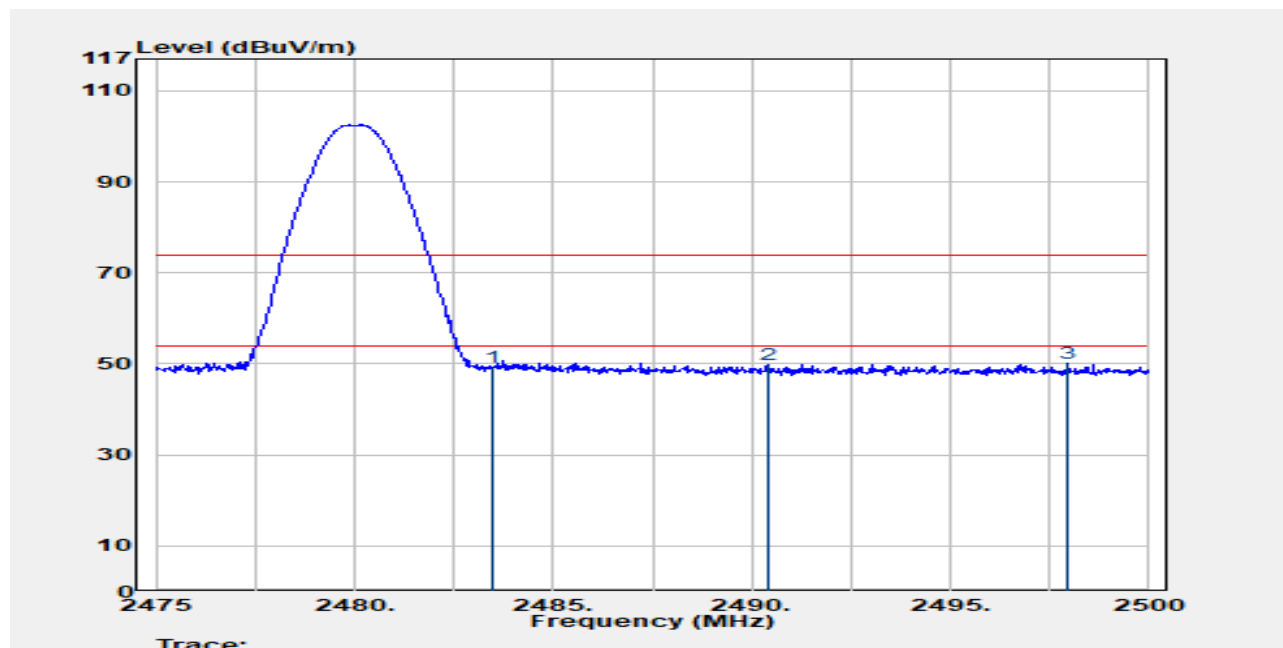
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2331.700	Average	50.42	-24.73	25.69	54.00	-28.31
2358.600	Average	49.49	-24.73	24.76	54.00	-29.24
2390.000	Average	48.44	-24.73	23.71	54.00	-30.29

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Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
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	53.42	-4.26	49.16	74.00	-24.84
2490.400	Peak	54.15	-4.20	49.95	74.00	-24.05
2497.950	Peak	54.21	-4.15	50.07	74.00	-23.93

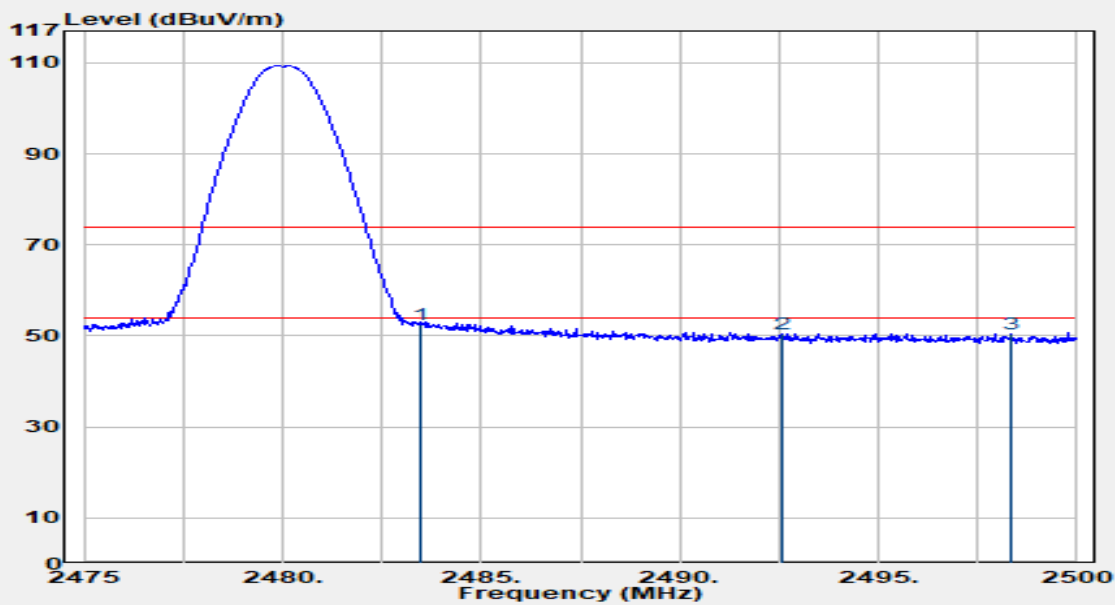
Freq. (MHz)	Detector	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.16	-24.73	24.43	54.00	-29.57
2490.400	Average	49.95	-24.73	25.22	54.00	-28.78
2497.950	Average	50.07	-24.73	25.34	54.00	-28.66

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Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	56.60	-4.26	52.34	74.00	-21.66
2492.600	Peak	54.75	-4.19	50.57	74.00	-23.43
2498.350	Peak	54.63	-4.14	50.48	74.00	-23.52

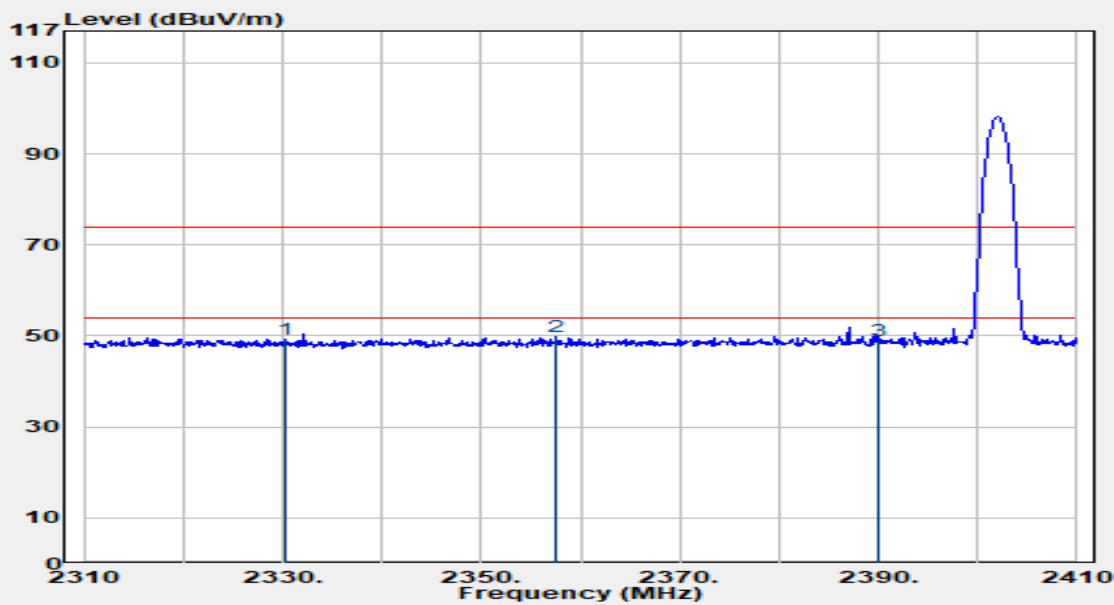
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	52.34	-24.73	27.61	54.00	-26.39
2492.600	Average	50.57	-24.73	25.84	54.00	-28.16
2498.350	Average	50.48	-24.73	25.75	54.00	-28.25

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2330.200	Peak	53.71	-4.36	49.35	74.00	-24.65
2357.600	Peak	54.07	-4.36	49.71	74.00	-24.29
2390.000	Peak	53.27	-4.25	49.02	74.00	-24.98

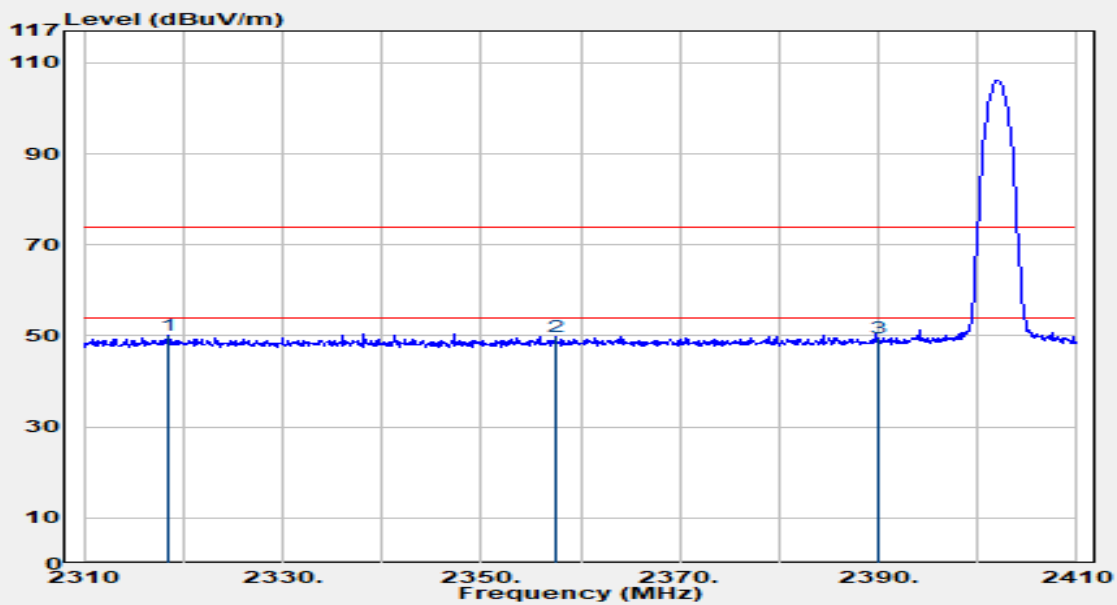
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2330.200	Average	49.35	-25.35	24.00	54.00	-30.00
2357.600	Average	49.71	-25.35	24.36	54.00	-29.64
2390.000	Average	49.02	-25.35	23.67	54.00	-30.33

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 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
2318.600	Peak	54.35	-4.35	50.00	74.00	-24.00
2357.500	Peak	54.30	-4.36	49.93	74.00	-24.07
2390.000	Peak	53.82	-4.25	49.57	74.00	-24.43

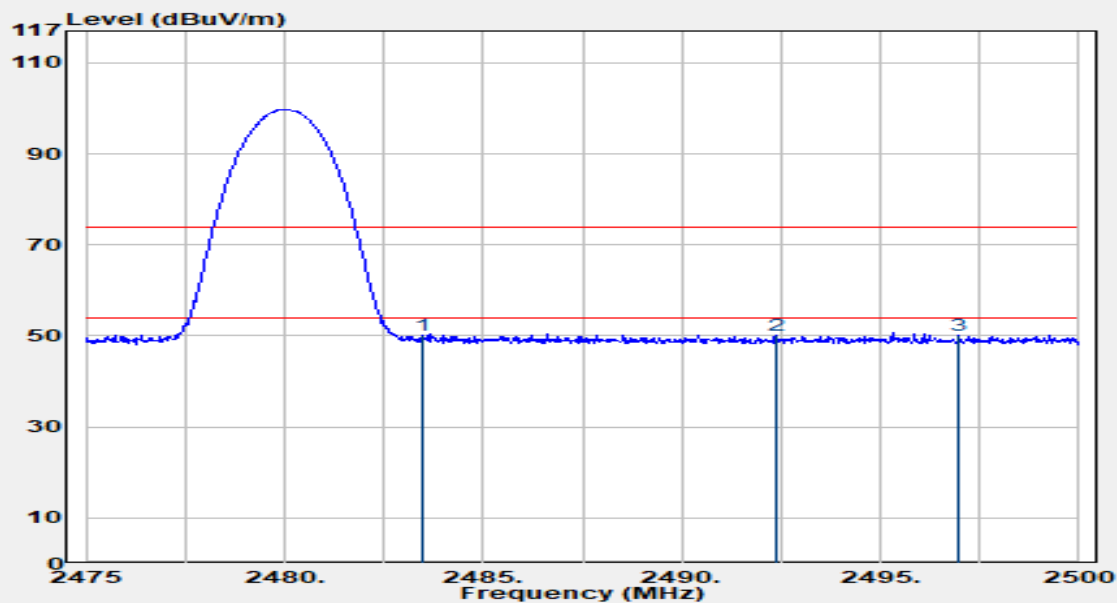
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2318.600	Average	50.00	-25.35	24.65	54.00	-29.35
2357.500	Average	49.93	-25.35	24.58	54.00	-29.42
2390.000	Average	49.57	-25.35	24.22	54.00	-29.78

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 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
2483.500	Peak	54.29	-4.26	50.03	74.00	-23.97
2492.350	Peak	54.42	-4.19	50.23	74.00	-23.77
2496.975	Peak	54.43	-4.15	50.28	74.00	-23.72

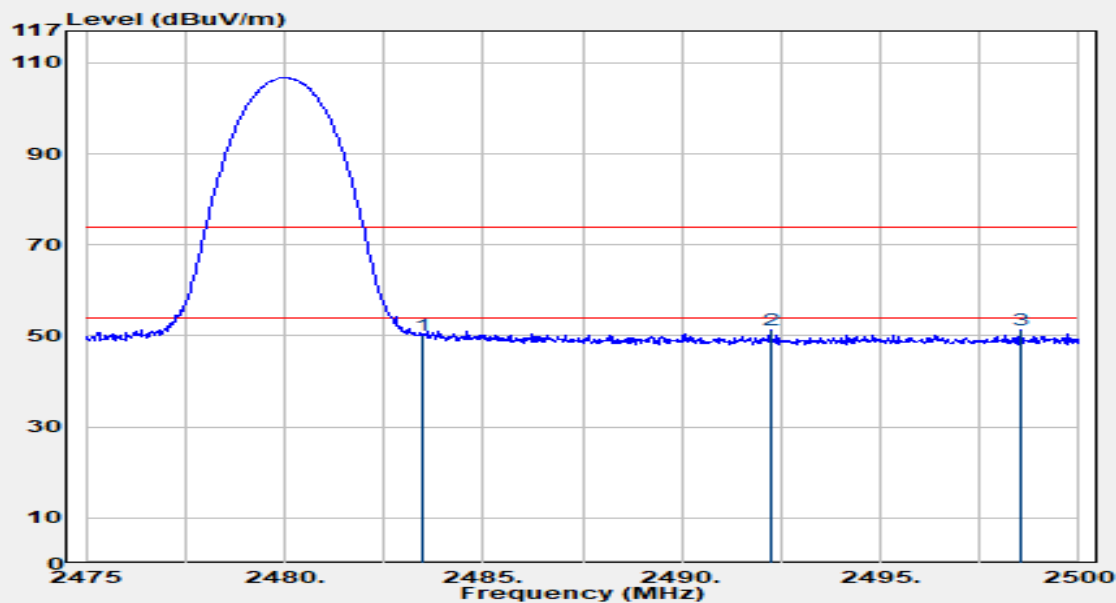
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	50.03	-25.35	24.68	54.00	-29.32
2492.350	Average	50.23	-25.35	24.88	54.00	-29.12
2496.975	Average	50.28	-25.35	24.93	54.00	-29.07

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	54.35	-4.26	50.09	74.00	-23.91
2492.225	Peak	55.51	-4.19	51.32	74.00	-22.68
2498.525	Peak	55.50	-4.14	51.36	74.00	-22.64

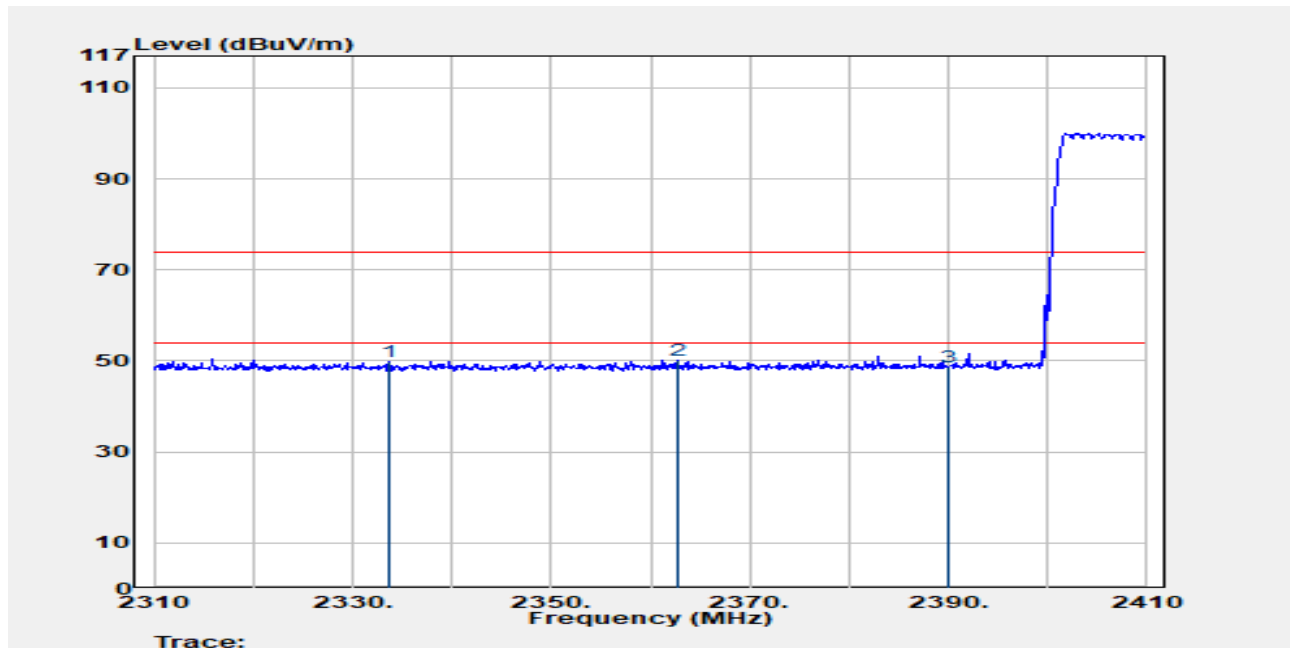
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	50.09	-25.35	24.74	54.00	-29.26
2492.225	Average	51.32	-25.35	25.97	54.00	-28.03
2498.525	Average	51.36	-25.35	26.01	54.00	-27.99

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2333.700	Peak	54.12	-4.37	49.75	74.00	-24.25
2362.700	Peak	54.56	-4.34	50.22	74.00	-23.78
2390.000	Peak	52.79	-4.25	48.54	74.00	-25.46

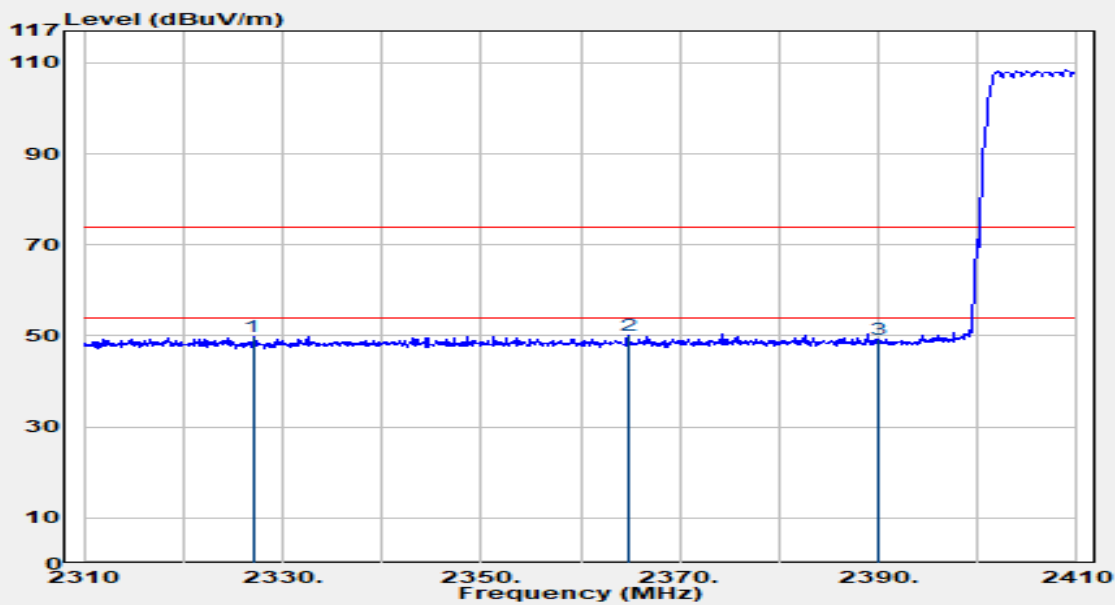
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2333.700	Average	49.75	-24.73	25.02	54.00	-28.98
2362.700	Average	50.22	-24.73	25.49	54.00	-28.51
2390.000	Average	48.54	-24.73	23.81	54.00	-30.19

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Report Number :TERF2211002256ER
Operation Mode :BR Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2327.000	Peak	54.14	-4.36	49.78	74.00	-24.22
2364.800	Peak	54.38	-4.34	50.05	74.00	-23.95
2390.000	Peak	53.40	-4.25	49.15	74.00	-24.85

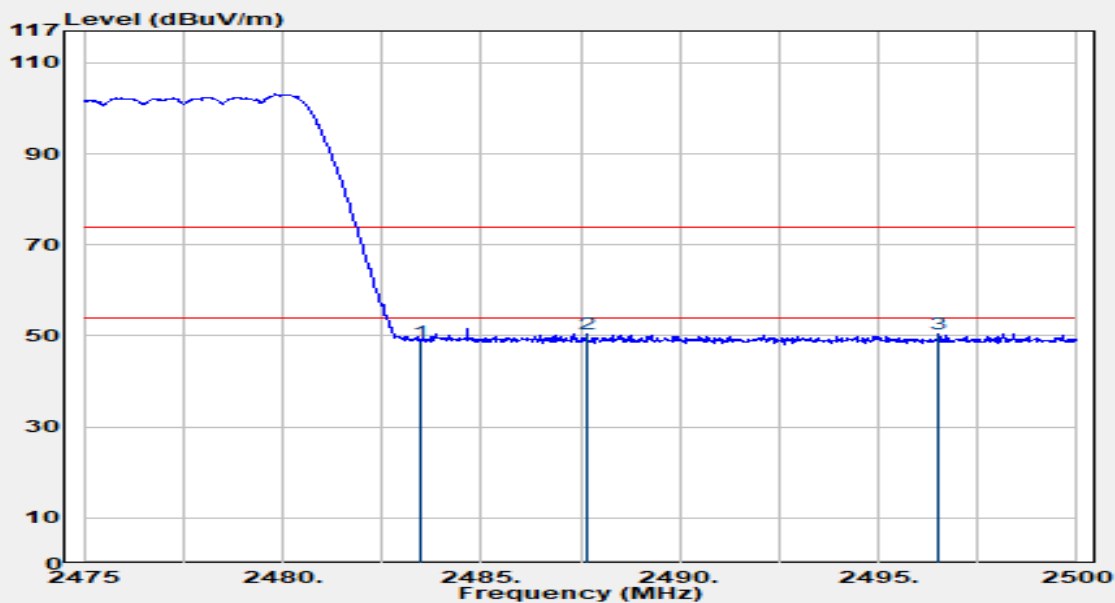
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2327.000	Average	49.78	-24.73	25.05	54.00	-28.95
2364.800	Average	50.05	-24.73	25.32	54.00	-28.68
2390.000	Average	49.15	-24.73	24.42	54.00	-29.58

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Report Number :TERF2211002256ER
Operation Mode :BR Hopping
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	52.94	-4.26	48.68	74.00	-25.32
2487.650	Peak	54.64	-4.23	50.42	74.00	-23.58
2496.500	Peak	54.52	-4.16	50.36	74.00	-23.64

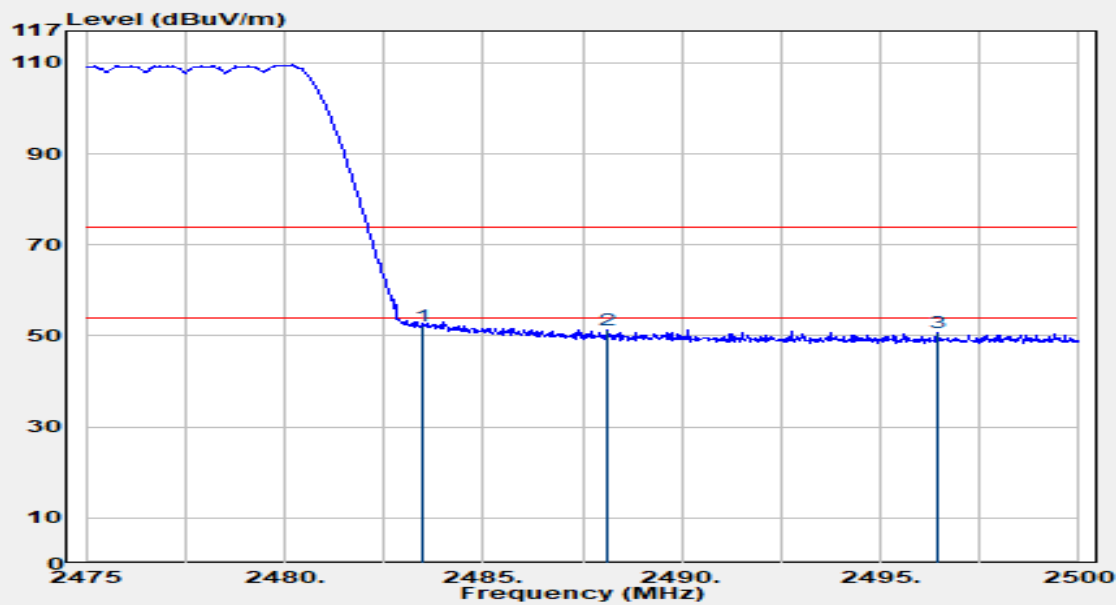
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	48.68	-24.73	23.95	54.00	-30.05
2487.650	Average	50.42	-24.73	25.69	54.00	-28.31
2496.500	Average	50.36	-24.73	25.63	54.00	-28.37

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Report Number :TERF2211002256ER
 Operation Mode :BR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 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
2483.500	Peak	56.56	-4.26	52.31	74.00	-21.69
2488.150	Peak	55.60	-4.22	51.38	74.00	-22.62
2496.425	Peak	54.87	-4.16	50.72	74.00	-23.28

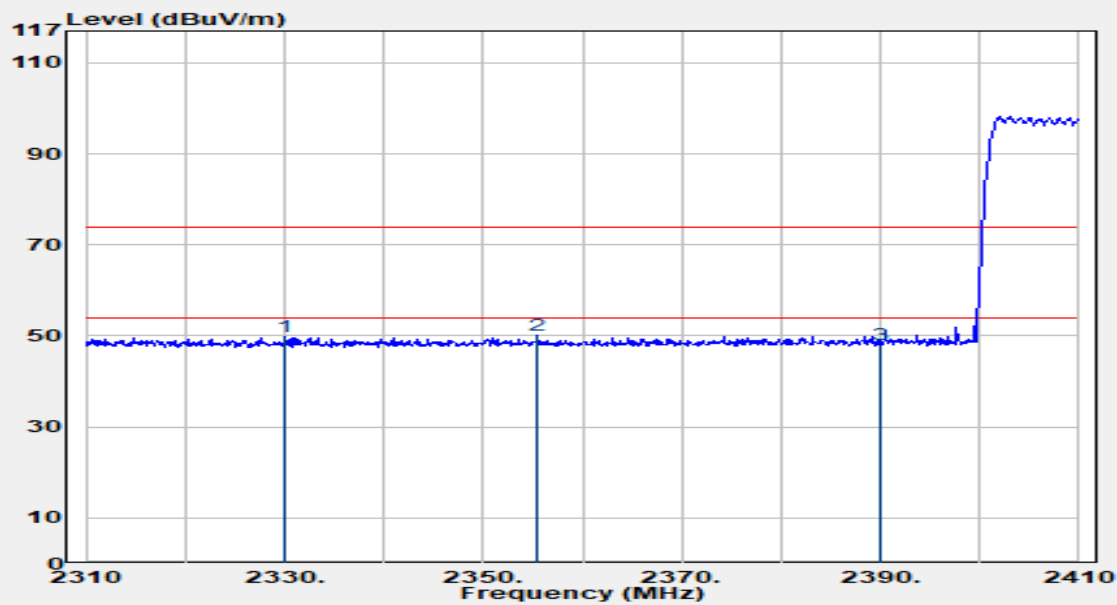
Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	52.31	-24.73	27.58	54.00	-26.42
2488.150	Average	51.38	-24.73	26.65	54.00	-27.35
2496.425	Average	50.72	-24.73	25.99	54.00	-28.01

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2330.100	Peak	54.12	-4.36	49.76	74.00	-24.24
2355.400	Peak	54.41	-4.37	50.04	74.00	-23.96
2390.000	Peak	52.45	-4.25	48.20	74.00	-25.80

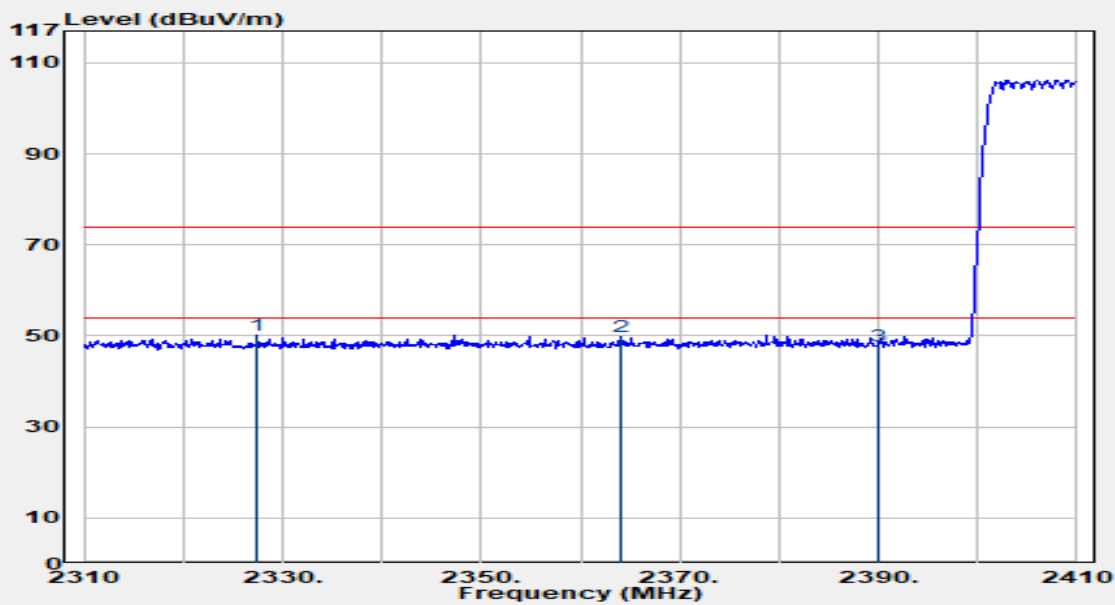
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2330.100	Average	49.76	-25.35	24.41	54.00	-29.59
2355.400	Average	50.04	-25.35	24.69	54.00	-29.31
2390.000	Average	48.20	-25.35	22.85	54.00	-31.15

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M Hopping
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2327.500	Peak	54.52	-4.36	50.16	74.00	-23.84
2364.000	Peak	54.23	-4.34	49.89	74.00	-24.11
2390.000	Peak	52.15	-4.25	47.90	74.00	-26.10

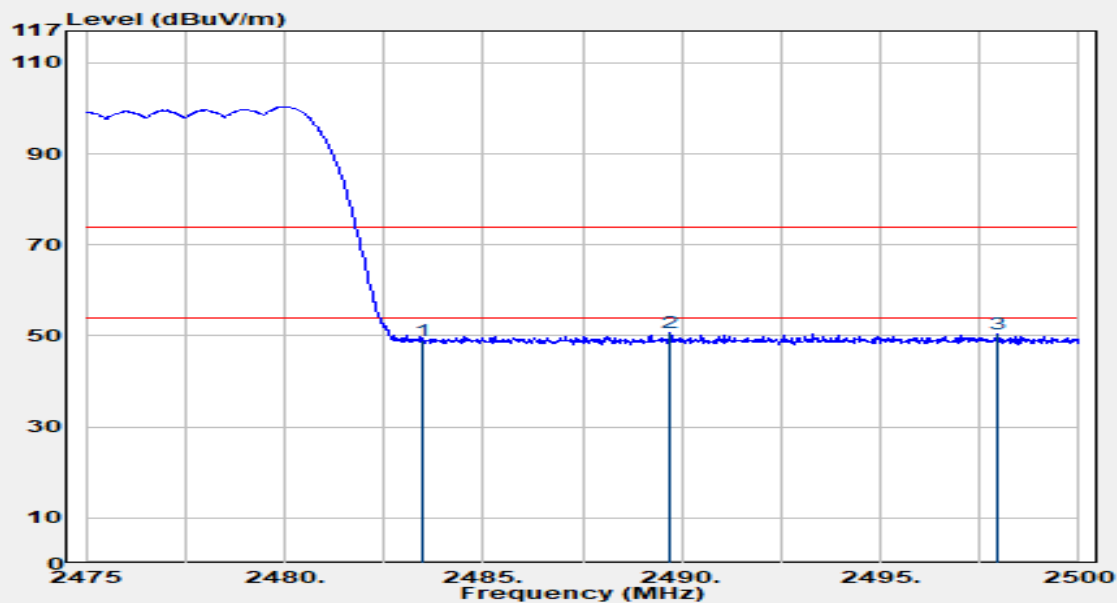
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2327.500	Average	50.16	-25.35	24.81	54.00	-29.19
2364.000	Average	49.89	-25.35	24.54	54.00	-29.46
2390.000	Average	47.90	-25.35	22.55	54.00	-31.45

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M Hopping
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-16
Temp./Humi. :24.3/61
Antenna Pol. :Vertical
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Peak	53.30	-4.26	49.04	74.00	-24.96
2489.700	Peak	54.90	-4.21	50.69	74.00	-23.31
2497.975	Peak	54.67	-4.15	50.53	74.00	-23.47

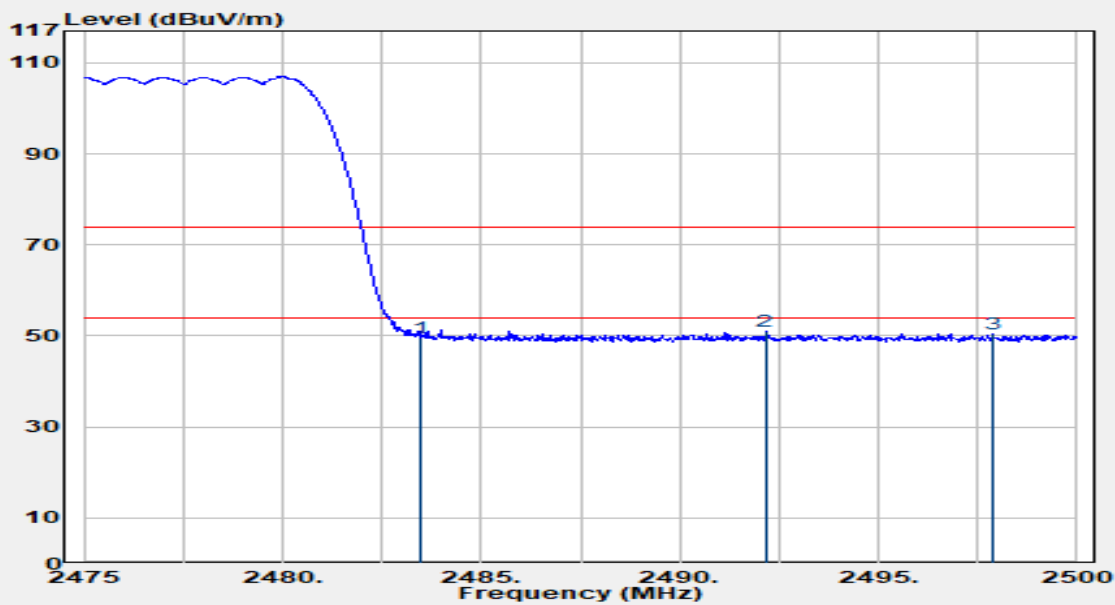
Freq. (MHz)	Detector	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
2483.500	Average	49.04	-25.35	23.69	54.00	-30.31
2489.700	Average	50.69	-25.35	25.34	54.00	-28.66
2497.975	Average	50.53	-25.35	25.18	54.00	-28.82

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-16
 Temp./Humi. :24.3/61
 Antenna Pol. :Horizontal
 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
2483.500	Peak	53.92	-4.26	49.66	74.00	-24.34
2492.150	Peak	55.16	-4.19	50.97	74.00	-23.03
2497.875	Peak	54.49	-4.15	50.34	74.00	-23.66

Freq. (MHz)	Detector	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2483.500	Average	49.66	-25.35	24.31	54.00	-29.69
2492.150	Average	50.97	-25.35	25.62	54.00	-28.38
2497.875	Average	50.34	-25.35	24.99	54.00	-29.01

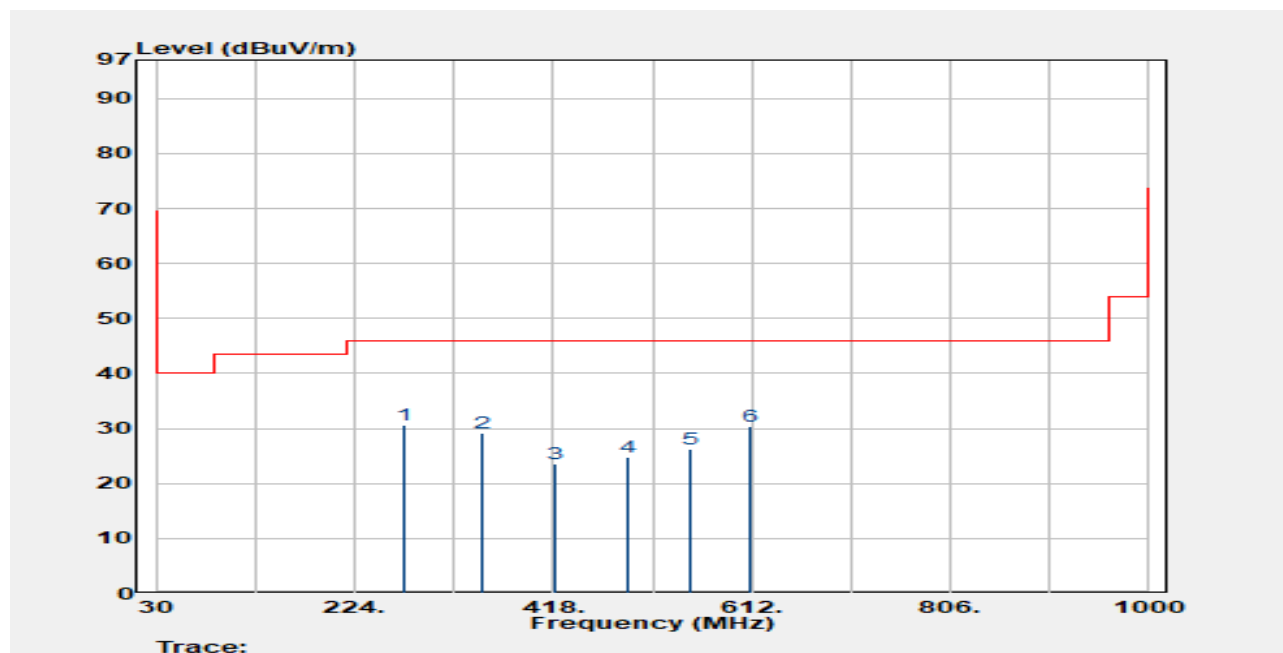
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11.6.4 Radiated Spurious Emission ANT0 (monopole)

Report Number : TERF2211002256ER
 Operation Mode : BR
 Test Frequency : 2441 MHz
 Test Mode : Tx
 EUT Pol : H Plane

Test Site : SAC 2
 Test Date : 2023-02-21
 Temp./Humi. : 23.9/63
 Antenna Pol. : Vertical
 Engineer : Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
273.470	Peak	43.67	-12.97	30.71	46.00	-15.29
348.160	Peak	40.37	-11.19	29.18	46.00	-16.82
418.970	Peak	33.22	-9.59	23.63	46.00	-22.37
491.720	Peak	32.63	-7.84	24.79	46.00	-21.21
551.860	Peak	32.94	-6.76	26.18	46.00	-19.82
611.030	Peak	35.32	-4.82	30.50	46.00	-15.50

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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

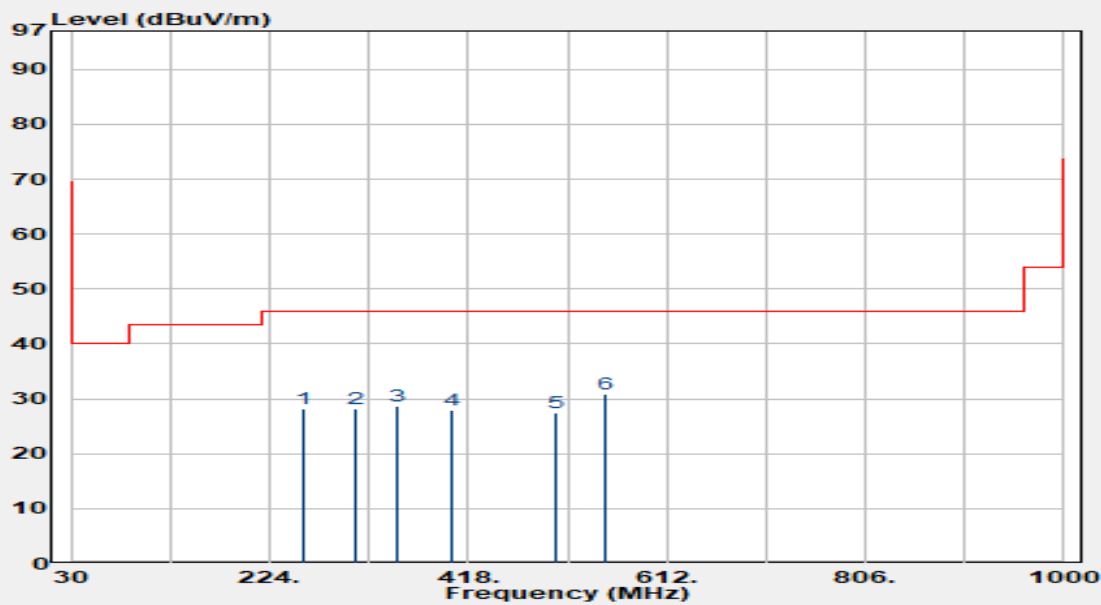
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



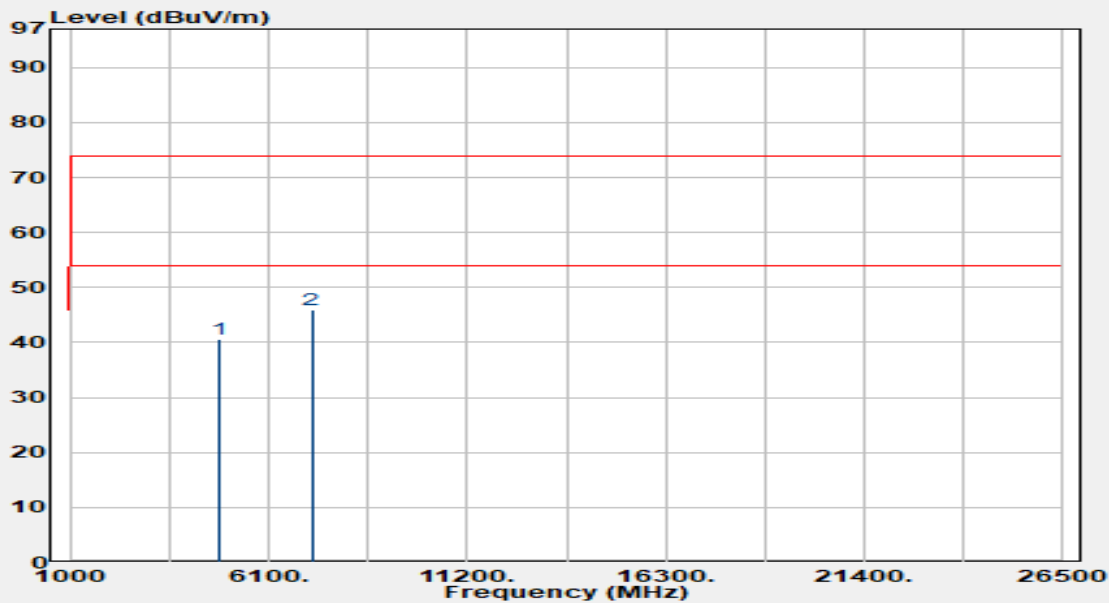
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
257.950	Peak	41.91	-13.58	28.32	46.00	-17.68
308.390	Peak	40.42	-12.28	28.15	46.00	-17.85
348.160	Peak	39.89	-11.19	28.70	46.00	-17.30
401.510	Peak	37.81	-9.77	28.04	46.00	-17.96
504.330	Peak	35.12	-7.68	27.44	46.00	-18.56
551.860	Peak	37.58	-6.76	30.82	46.00	-15.18

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 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
4804.000	Peak	38.56	2.10	40.66	74.00	-33.34
7206.000	Peak	38.42	7.56	45.98	74.00	-28.02

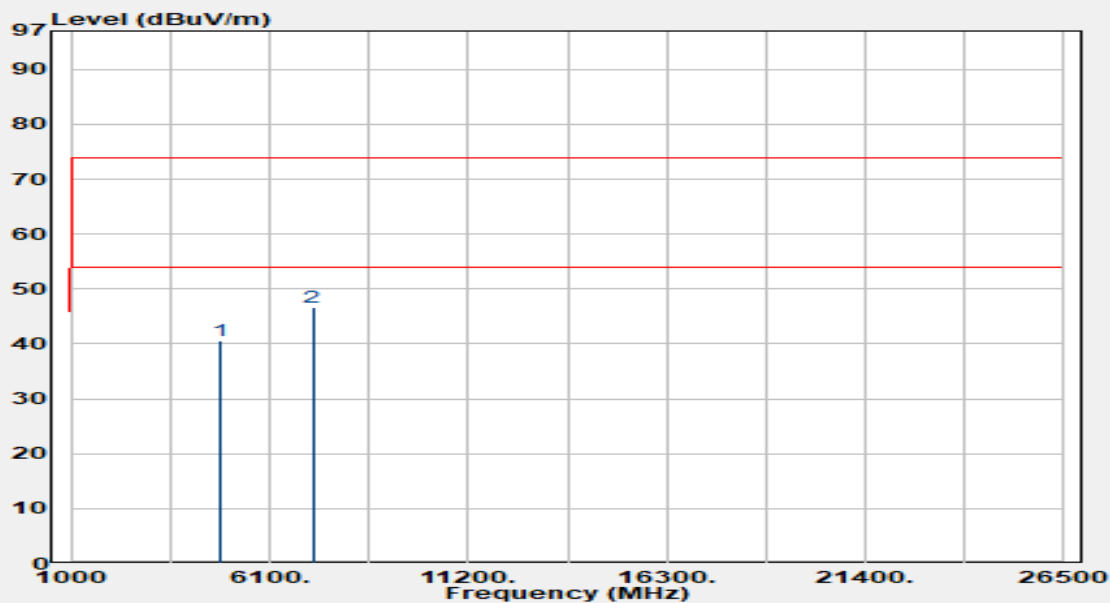
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Fac- tor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	40.66	-25.04	15.62	54.00	-38.38
7206.000	Average	45.98	-25.04	20.94	54.00	-33.06

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	38.60	2.10	40.70	74.00	-33.30
7206.000	Peak	39.09	7.56	46.65	74.00	-27.35

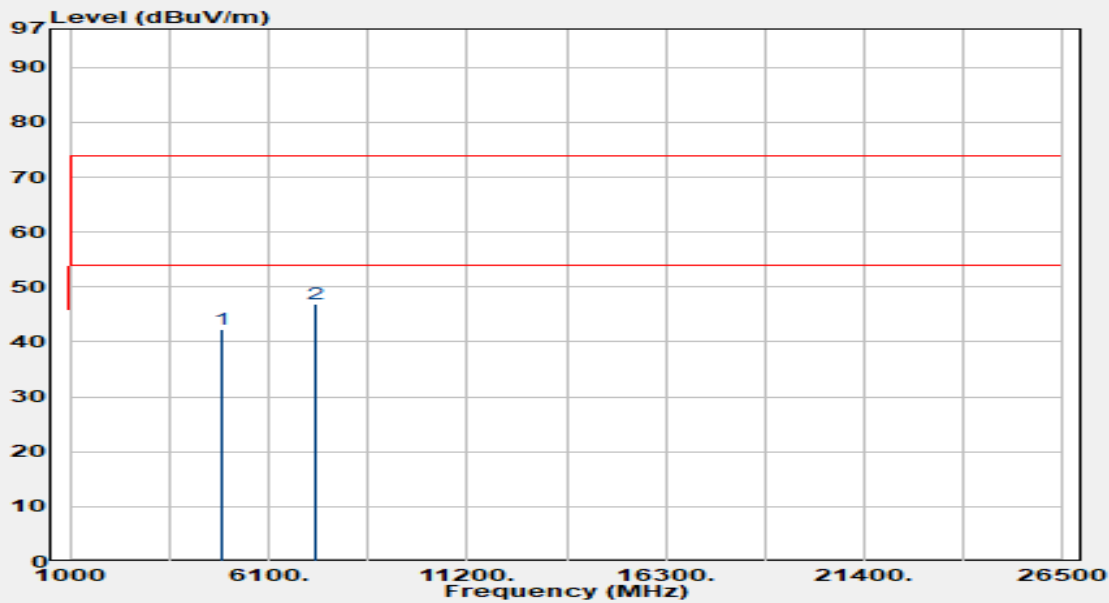
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4804.000	Average	40.70	-25.04	15.66	54.00	-38.34
7206.000	Average	46.65	-25.04	21.61	54.00	-32.39

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	39.66	2.66	42.32	74.00	-31.68
7323.000	Peak	39.18	7.70	46.88	74.00	-27.12

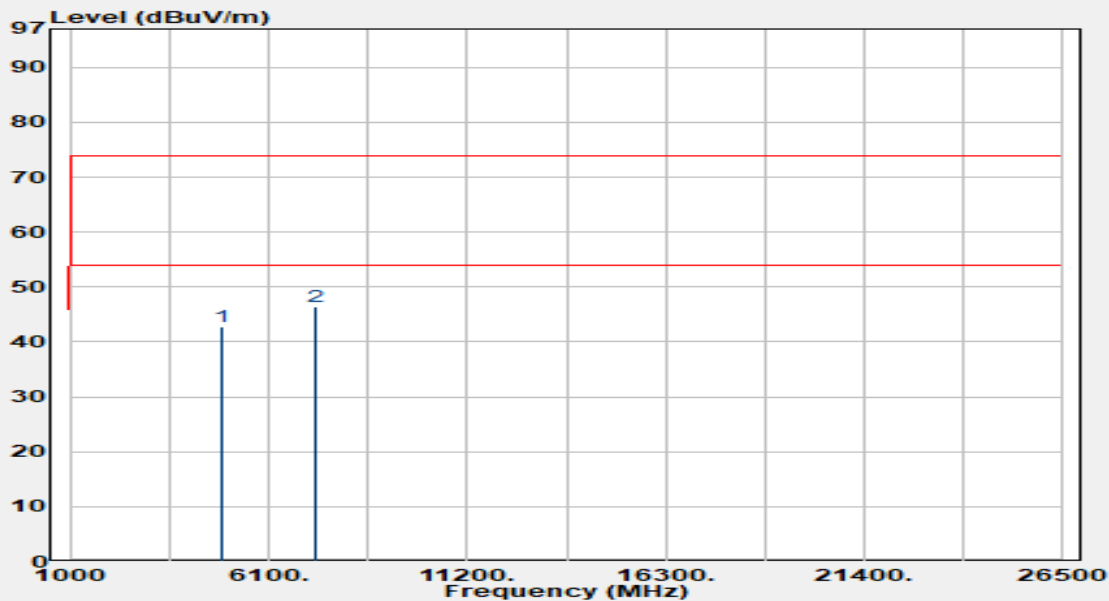
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4882.000	Average	42.32	-25.04	17.28	54.00	-36.72
7323.000	Average	46.88	-25.04	21.84	54.00	-32.16

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	40.23	2.66	42.88	74.00	-31.12
7323.000	Peak	38.69	7.70	46.39	74.00	-27.61

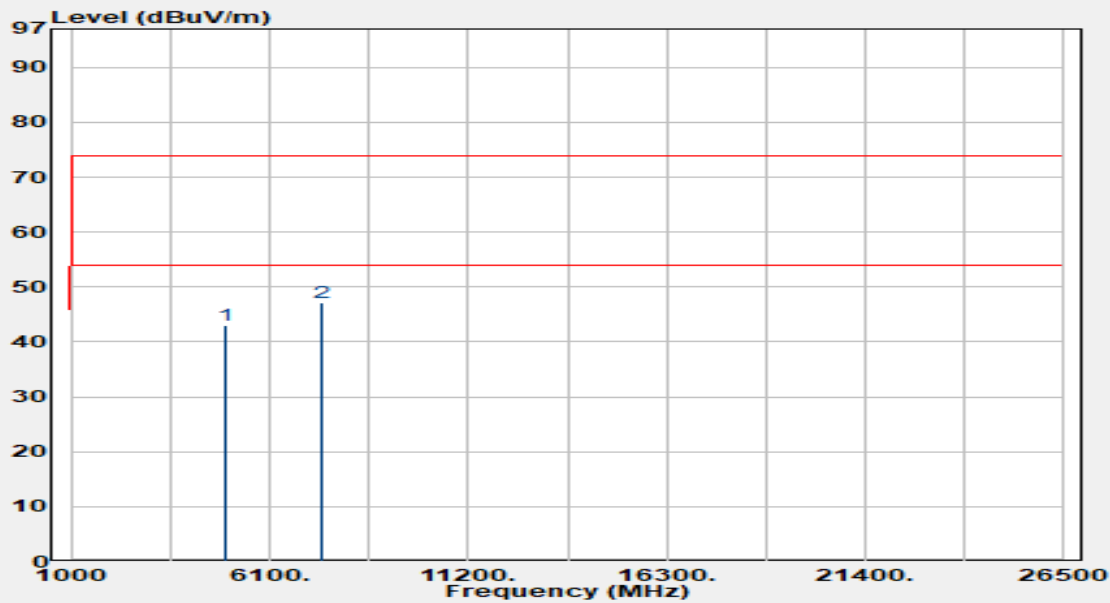
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4882.000	Average	42.88	-25.04	17.84	54.00	-36.16
7323.000	Average	46.39	-25.04	21.35	54.00	-32.65

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	40.32	2.80	43.12	74.00	-30.88
7440.000	Peak	39.07	7.97	47.04	74.00	-26.96

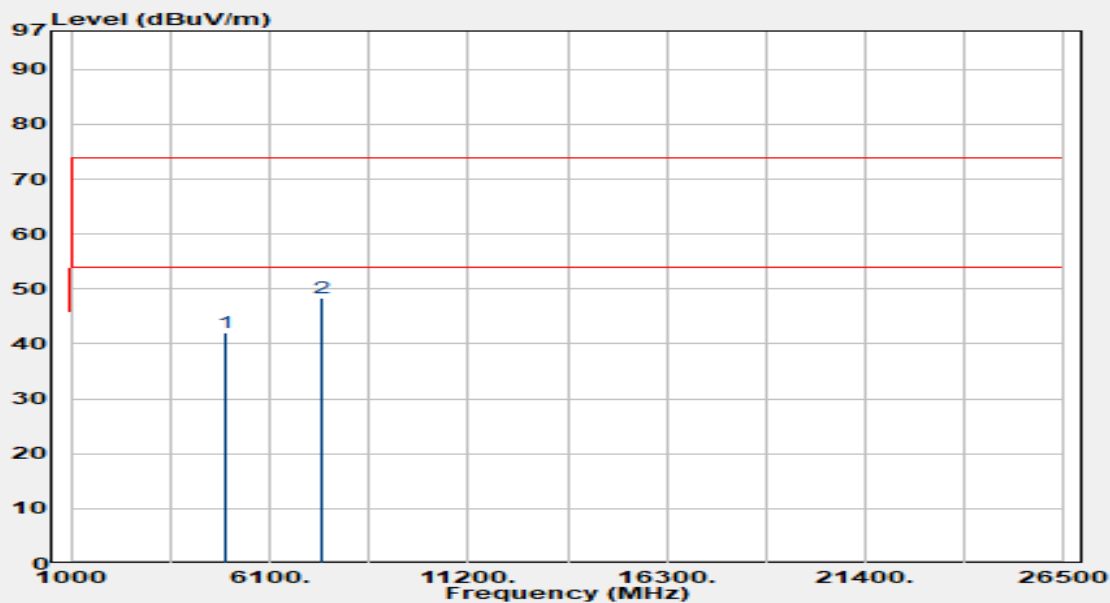
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4960.000	Average	43.12	-25.04	18.08	54.00	-35.92
7440.000	Average	47.04	-25.04	22.00	54.00	-32.00

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	39.37	2.80	42.17	74.00	-31.83
7440.000	Peak	40.41	7.97	48.38	74.00	-25.62

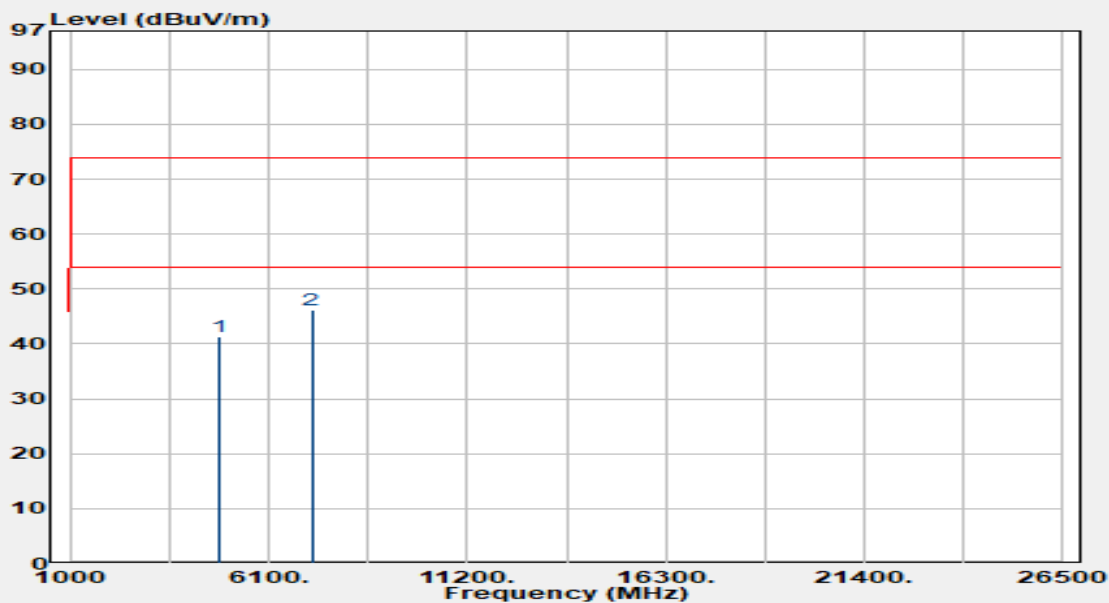
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4960.000	Average	42.17	-25.04	17.13	54.00	-36.87
7440.000	Average	48.38	-25.04	23.34	54.00	-30.66

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 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
4804.000	Peak	39.29	2.10	41.39	74.00	-32.61
7206.000	Peak	38.73	7.56	46.29	74.00	-27.71

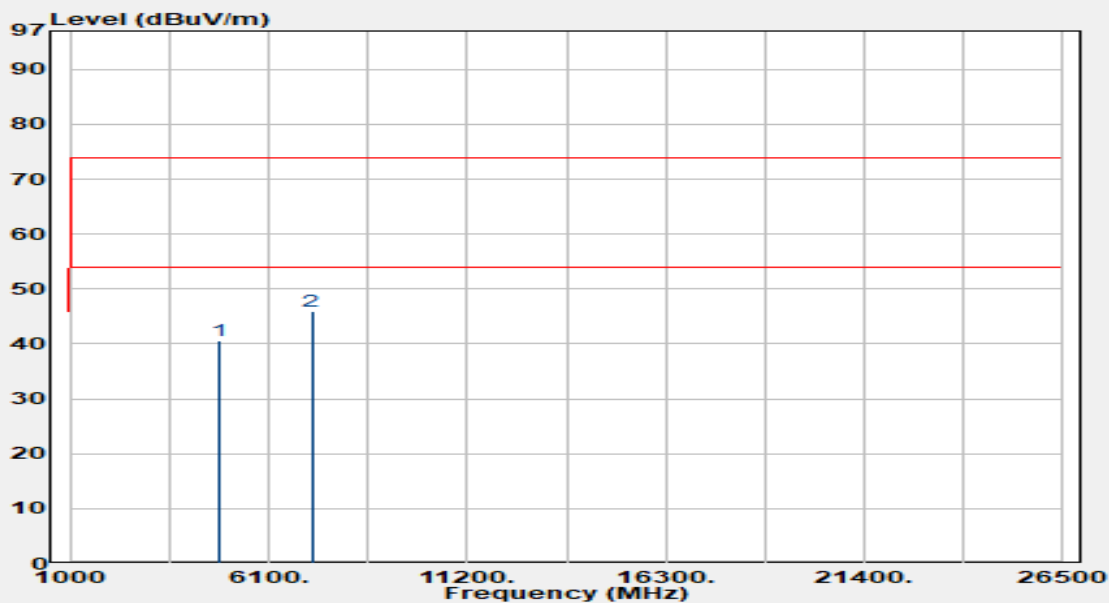
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Fac- tor (dB)	Average Value (dBμV/m)	Average Limit@3m (dBμV/m)	Margin (dB)
4804.000	Average	41.39	-24.73	16.66	54.00	-37.34
7206.000	Average	46.29	-24.73	21.56	54.00	-32.44

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	38.53	2.10	40.63	74.00	-33.37
7206.000	Peak	38.38	7.56	45.94	74.00	-28.06

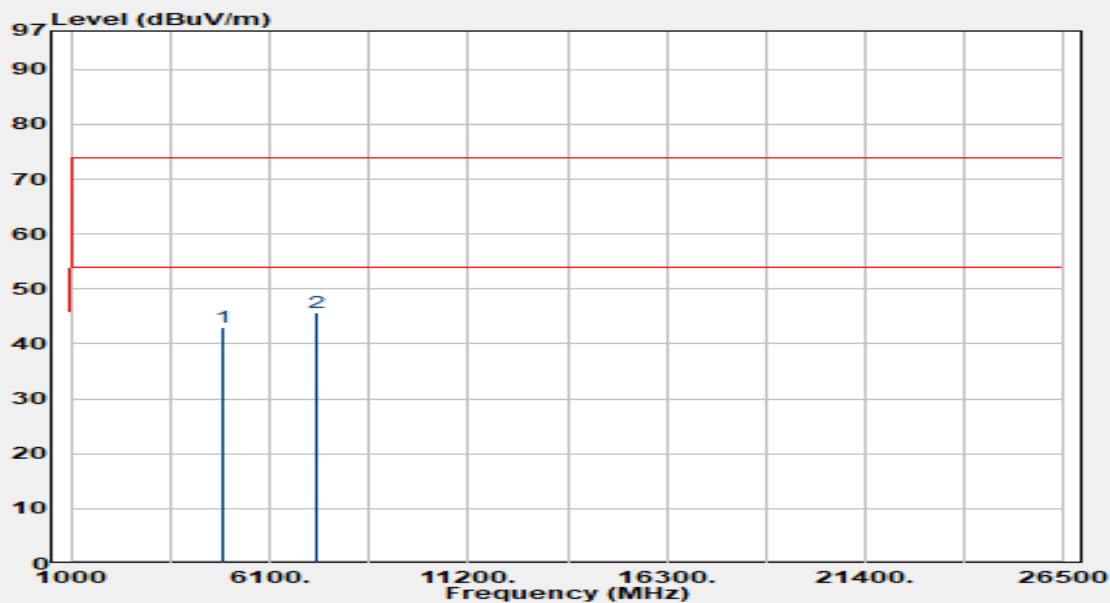
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4804.000	Average	40.63	-24.73	15.90	54.00	-38.10
7206.000	Average	45.94	-24.73	21.21	54.00	-32.79

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	40.31	2.66	42.96	74.00	-31.04
7323.000	Peak	37.89	7.70	45.60	74.00	-28.40

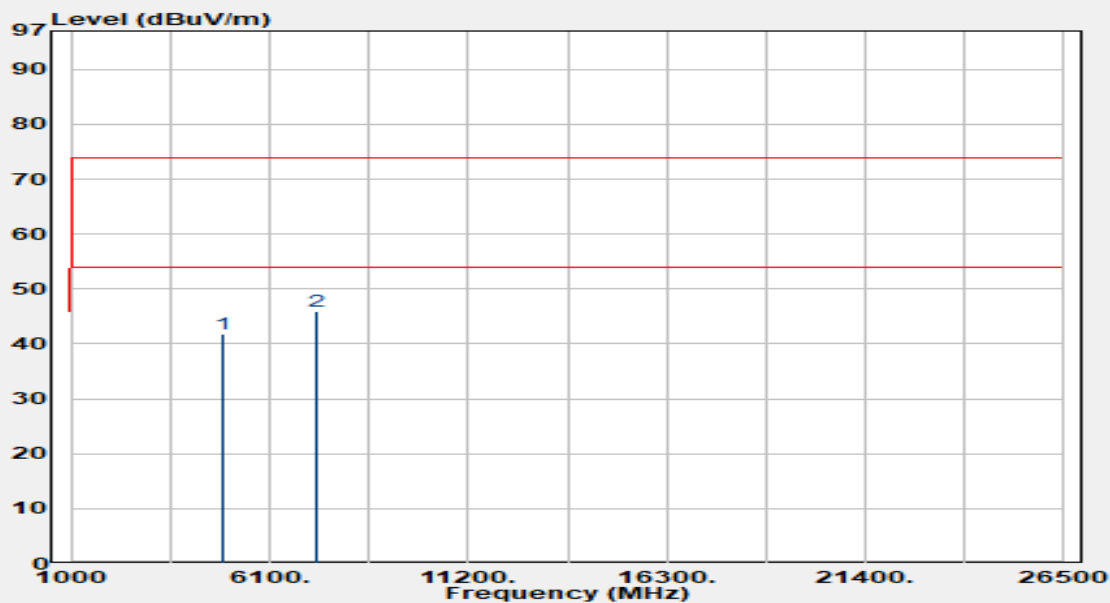
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	42.96	-24.73	18.23	54.00	-35.77
7323.000	Average	45.60	-24.73	20.87	54.00	-33.13

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	39.12	2.66	41.77	74.00	-32.23
7323.000	Peak	38.21	7.70	45.91	74.00	-28.09

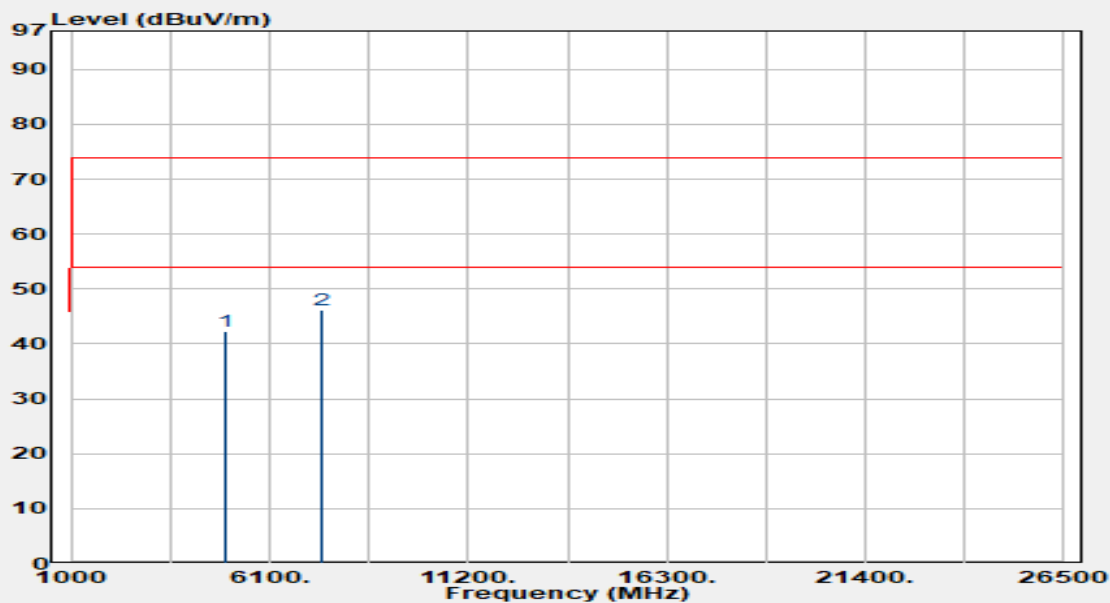
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4882.000	Average	41.77	-24.73	17.04	54.00	-36.96
7323.000	Average	45.91	-24.73	21.18	54.00	-32.82

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	39.53	2.80	42.33	74.00	-31.67
7440.000	Peak	38.23	7.97	46.21	74.00	-27.79

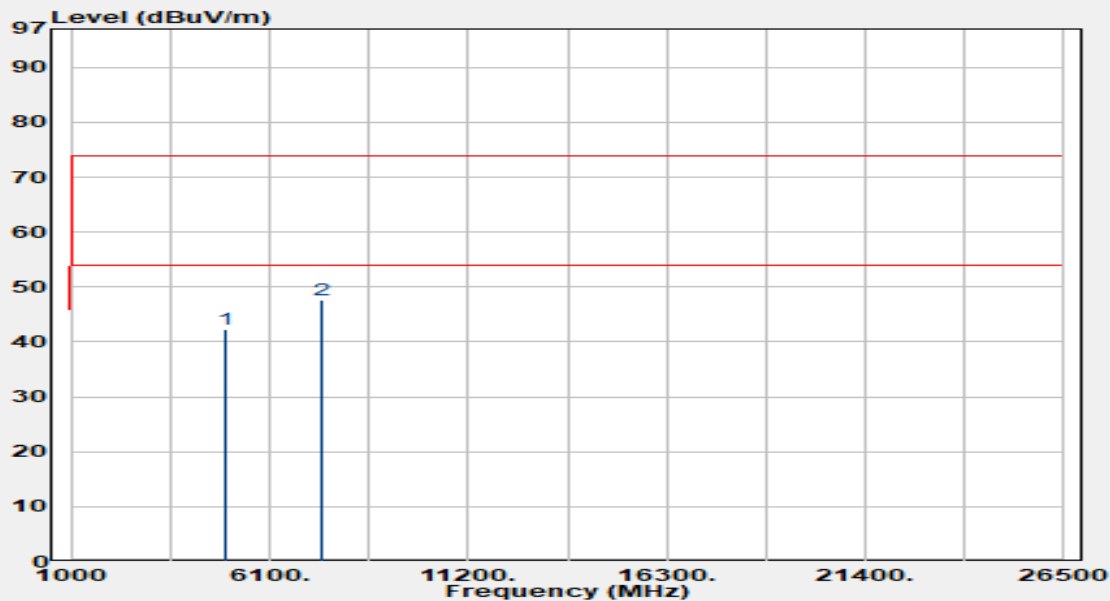
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4960.000	Average	42.33	-24.73	17.60	54.00	-36.40
7440.000	Average	46.21	-24.73	21.48	54.00	-32.52

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	39.44	2.80	42.24	74.00	-31.76
7440.000	Peak	39.60	7.97	47.57	74.00	-26.43

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Fac- tor (dB)	Average Value (dB μ V/m)	Average Limit@3m (dB μ V/m)	Margin (dB)
4960.000	Average	42.24	-24.73	17.51	54.00	-36.49
7440.000	Average	47.57	-24.73	22.84	54.00	-31.16

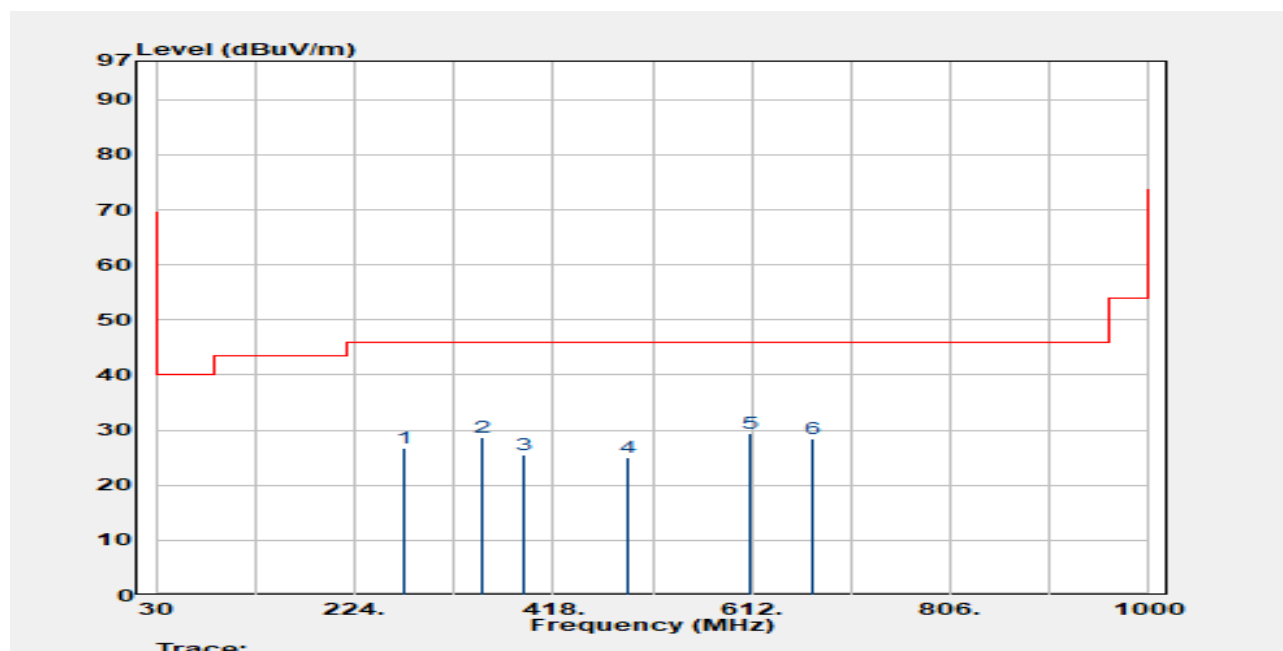
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ANT0 (dipole)

Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2441 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-21
Temp./Humi. :23.9/63
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
272.500	Peak	39.73	-13.00	26.73	46.00	-19.27
348.160	Peak	39.92	-11.19	28.74	46.00	-17.26
389.870	Peak	35.55	-9.95	25.60	46.00	-20.40
491.720	Peak	32.88	-7.84	25.03	46.00	-20.97
611.030	Peak	34.28	-4.82	29.46	46.00	-16.54
671.170	Peak	32.69	-4.31	28.38	46.00	-17.62

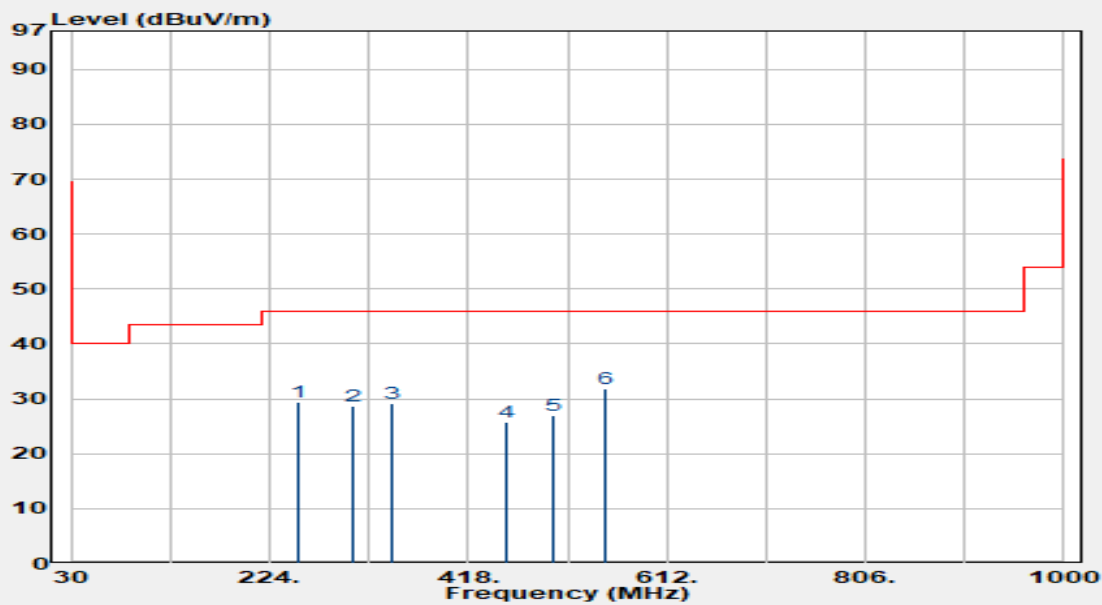
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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



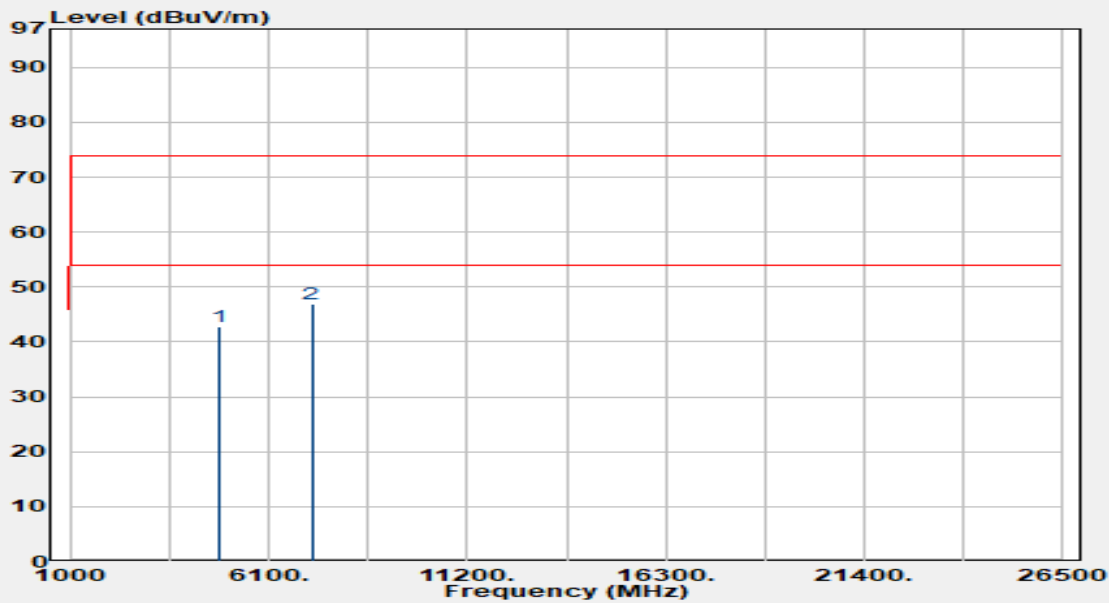
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
252.130	Peak	43.00	-13.63	29.37	46.00	-16.63
305.480	Peak	41.11	-12.44	28.68	46.00	-17.32
344.280	Peak	40.34	-11.11	29.23	46.00	-16.77
455.830	Peak	33.87	-8.13	25.75	46.00	-20.25
500.450	Peak	34.60	-7.57	27.03	46.00	-18.97
551.860	Peak	38.59	-6.76	31.83	46.00	-14.17

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	40.57	2.10	42.67	74.00	-31.33
7206.000	Peak	39.39	7.56	46.95	74.00	-27.05

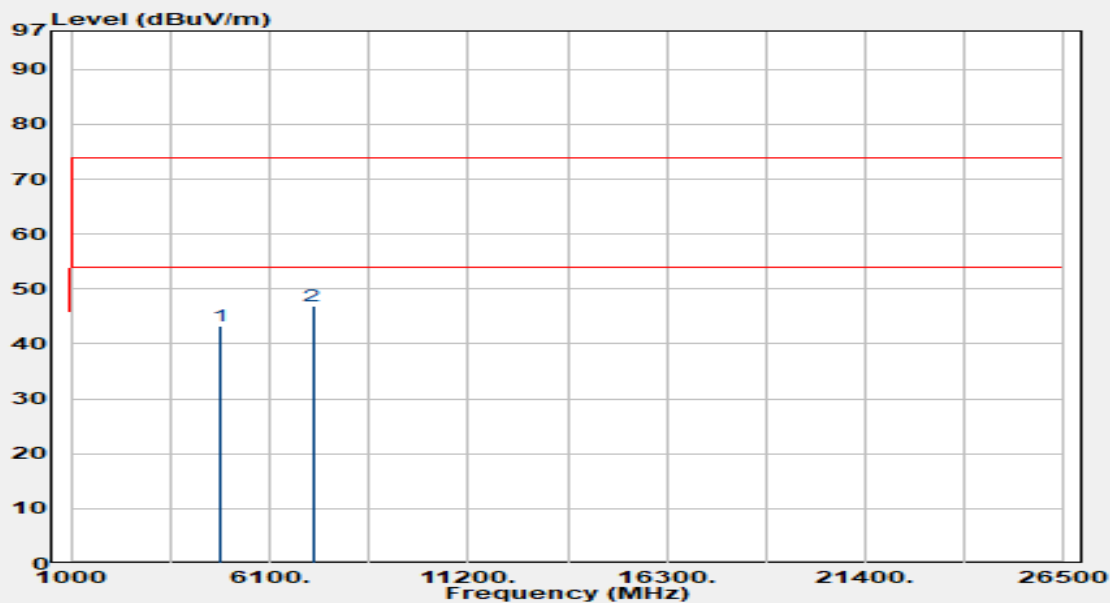
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	42.67	-25.04	17.63	54.00	-36.37
7206.000	Average	46.95	-25.04	21.91	54.00	-32.09

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Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-21
Temp./Humi. :23.9/63
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	41.19	2.10	43.29	74.00	-30.71
7206.000	Peak	39.44	7.56	46.99	74.00	-27.01

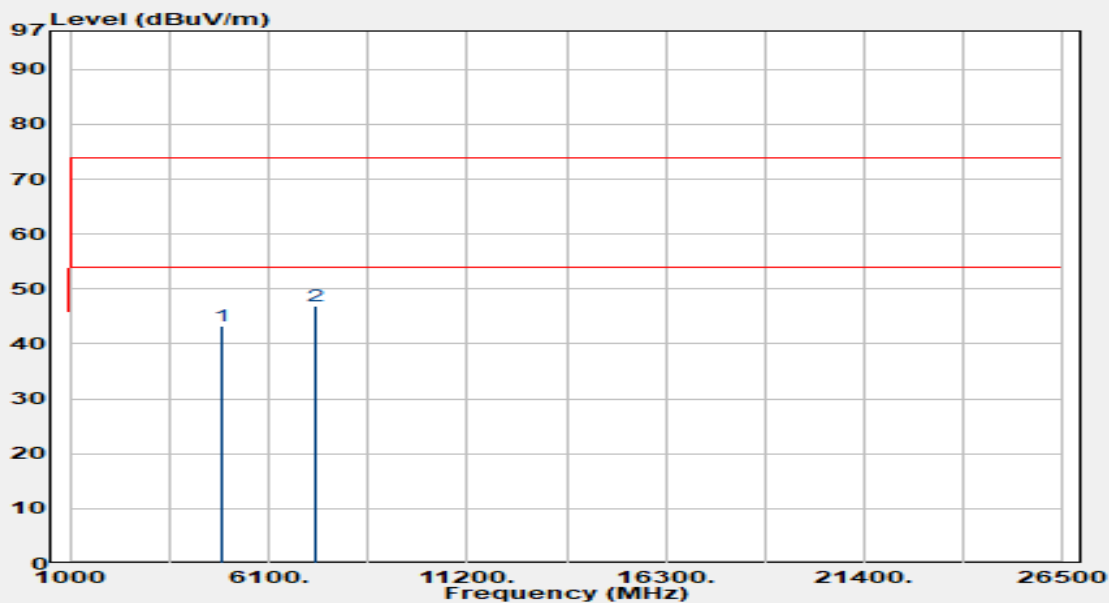
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	43.29	-25.04	18.25	54.00	-35.75
7206.000	Average	46.99	-25.04	21.95	54.00	-32.05

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 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
4882.000	Peak	40.59	2.66	43.25	74.00	-30.75
7323.000	Peak	39.29	7.70	46.99	74.00	-27.01

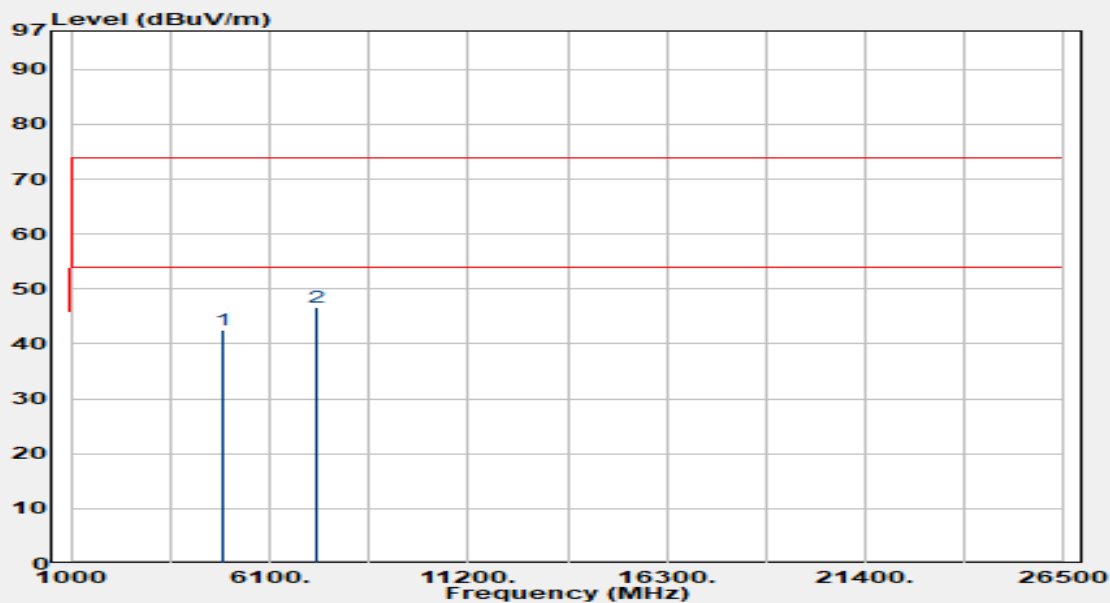
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	43.25	-25.04	18.21	54.00	-35.79
7323.000	Average	46.99	-25.04	21.95	54.00	-32.05

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Report Number :TERF2211002256ER
Operation Mode :BR
Test Frequency :2441 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-21
Temp./Humi. :23.9/63
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	39.81	2.66	42.47	74.00	-31.53
7323.000	Peak	38.88	7.70	46.58	74.00	-27.42

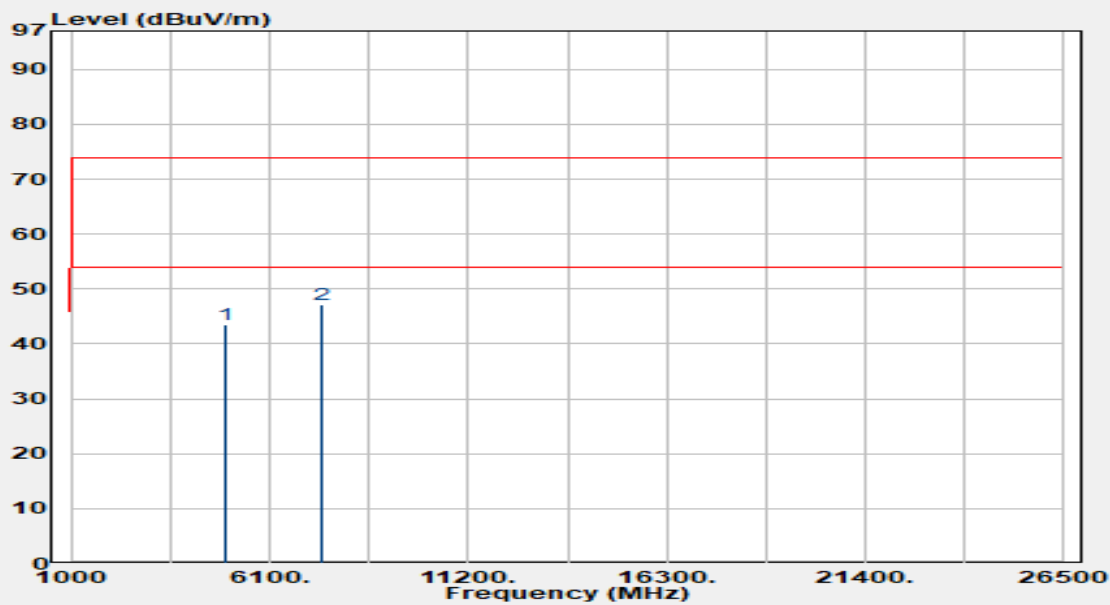
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	42.47	-25.04	17.43	54.00	-36.57
7323.000	Average	46.58	-25.04	21.54	54.00	-32.46

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	40.77	2.80	43.57	74.00	-30.43
7440.000	Peak	39.17	7.97	47.15	74.00	-26.85

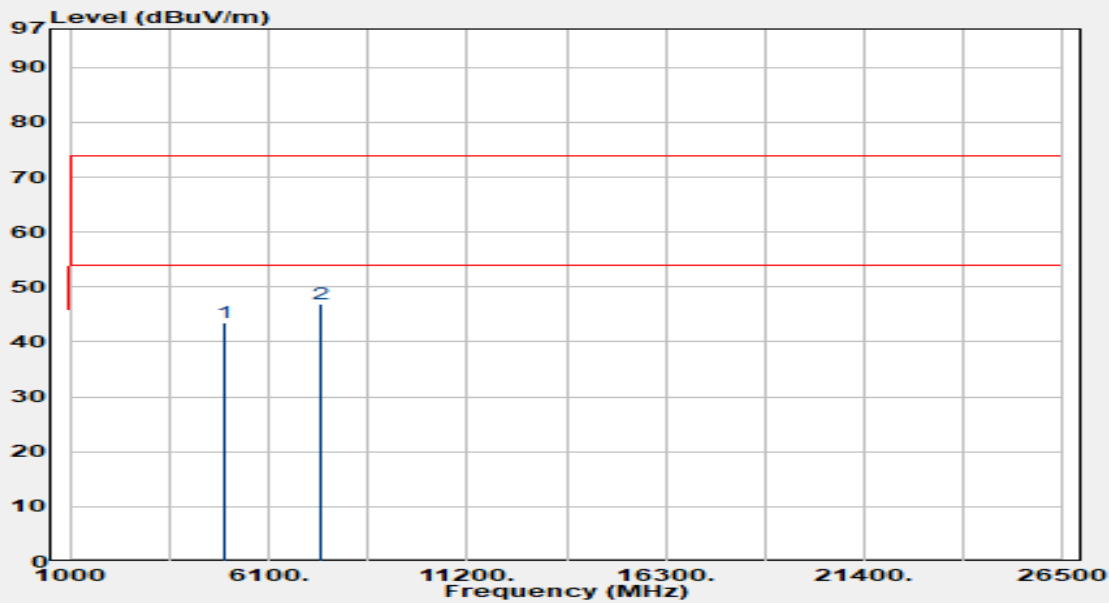
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	43.57	-25.04	18.53	54.00	-35.47
7440.000	Average	47.15	-25.04	22.11	54.00	-31.89

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	40.68	2.80	43.48	74.00	-30.52
7440.000	Peak	38.91	7.97	46.89	74.00	-27.11

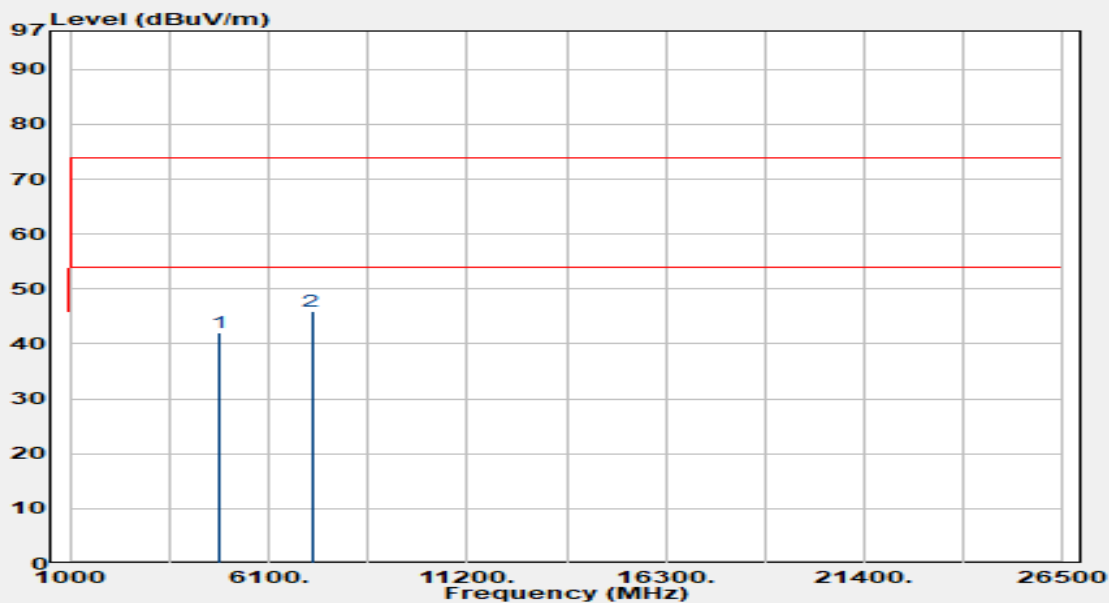
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	43.48	-25.04	18.44	54.00	-35.56
7440.000	Average	46.89	-25.04	21.85	54.00	-32.15

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	40.05	2.10	42.15	74.00	-31.85
7206.000	Peak	38.35	7.56	45.90	74.00	-28.10

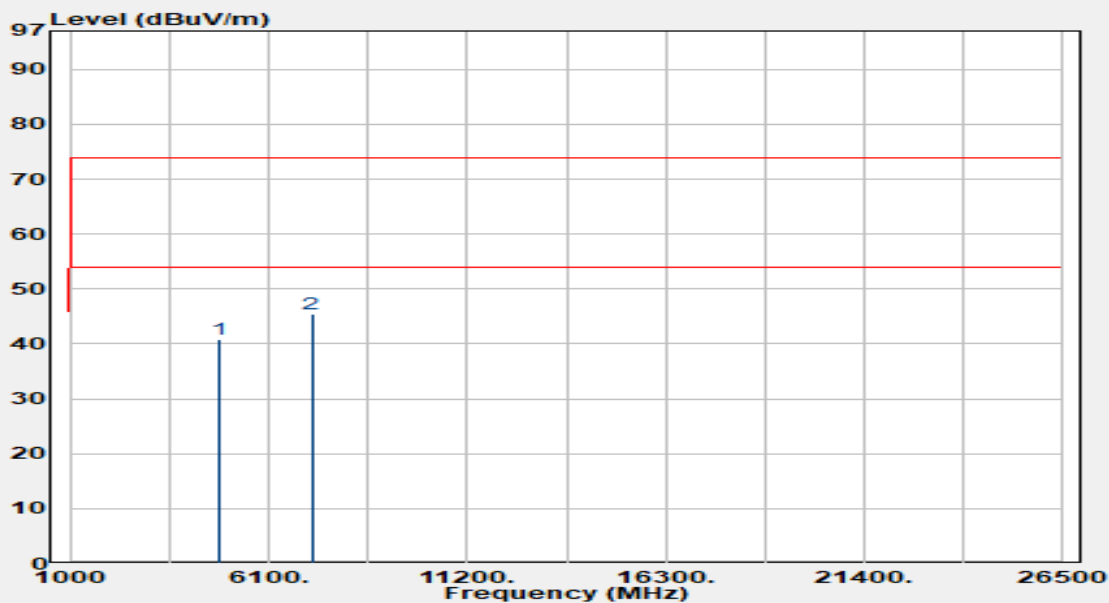
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	42.15	-25.04	17.11	54.00	-36.89
7206.000	Average	45.90	-25.04	20.86	54.00	-33.14

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-21
Temp./Humi. :23.9/63
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	38.81	2.10	40.91	74.00	-33.09
7206.000	Peak	37.99	7.56	45.54	74.00	-28.46

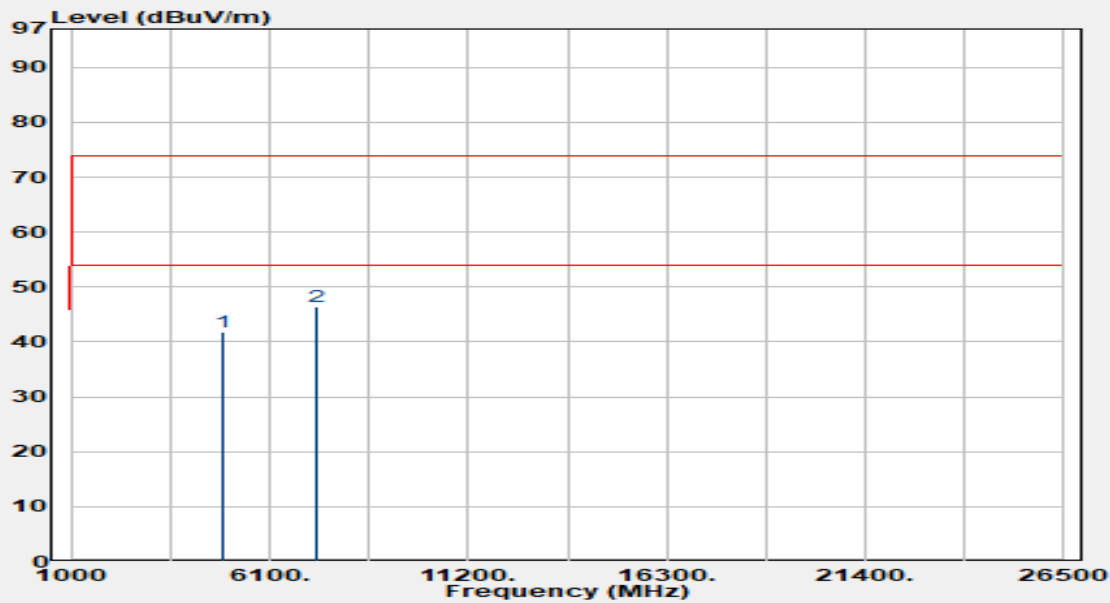
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	40.91	-25.04	15.87	54.00	-38.13
7206.000	Average	45.54	-25.04	20.50	54.00	-33.50

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	39.23	2.66	41.88	74.00	-32.12
7323.000	Peak	38.80	7.70	46.51	74.00	-27.49

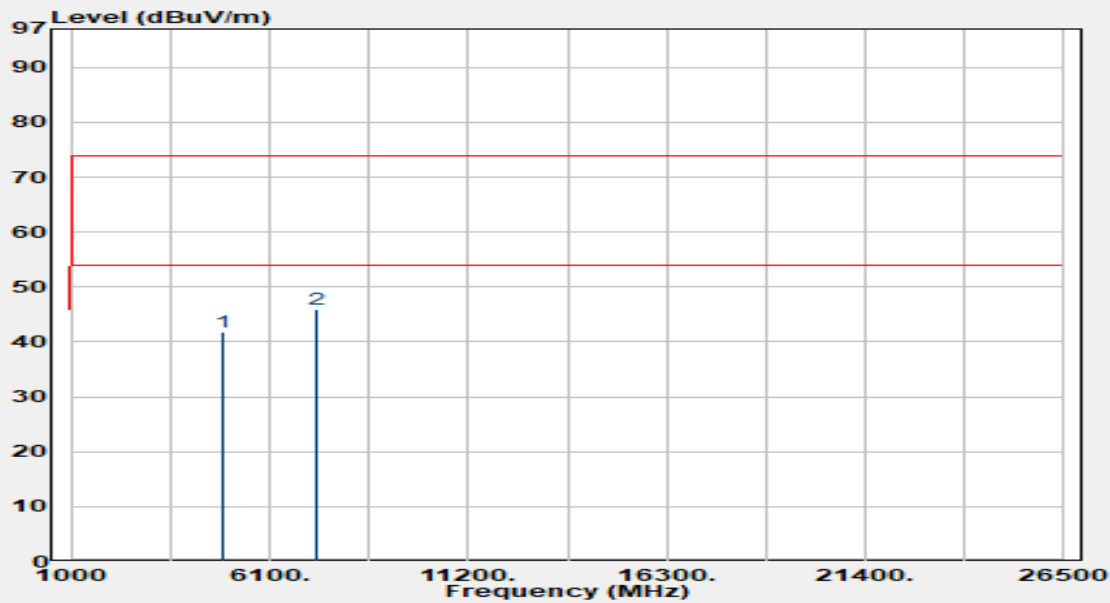
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	41.88	-25.04	16.84	54.00	-37.16
7323.000	Average	46.51	-25.04	21.47	54.00	-32.53

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 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
4882.000	Peak	39.06	2.66	41.72	74.00	-32.28
7323.000	Peak	38.36	7.70	46.06	74.00	-27.94

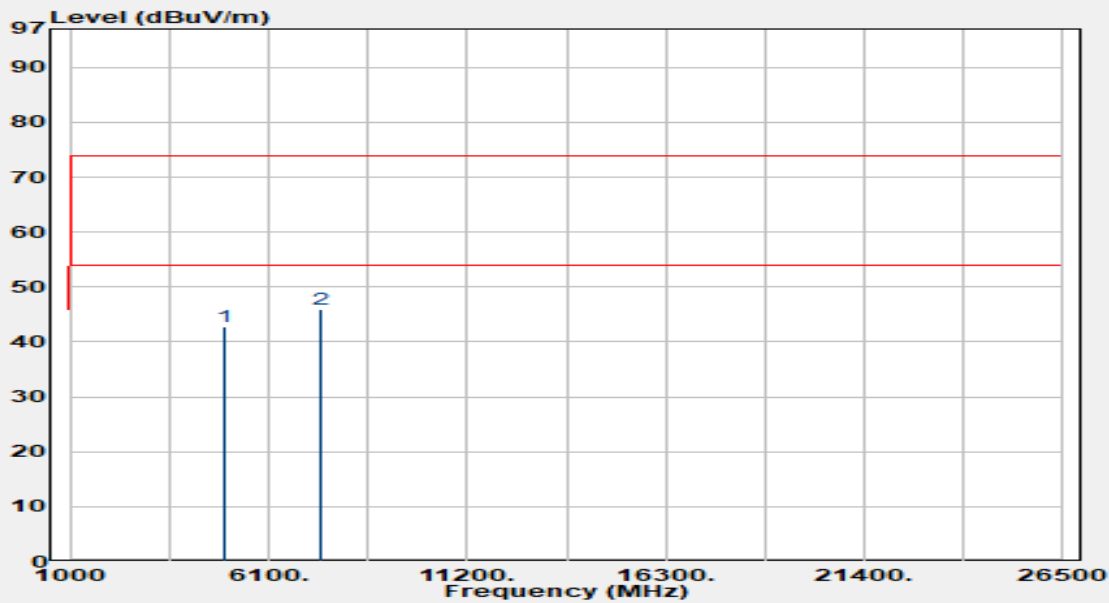
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	41.72	-25.04	16.68	54.00	-37.32
7323.000	Average	46.06	-25.04	21.02	54.00	-32.98

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	39.98	2.80	42.78	74.00	-31.22
7440.000	Peak	38.00	7.97	45.98	74.00	-28.02

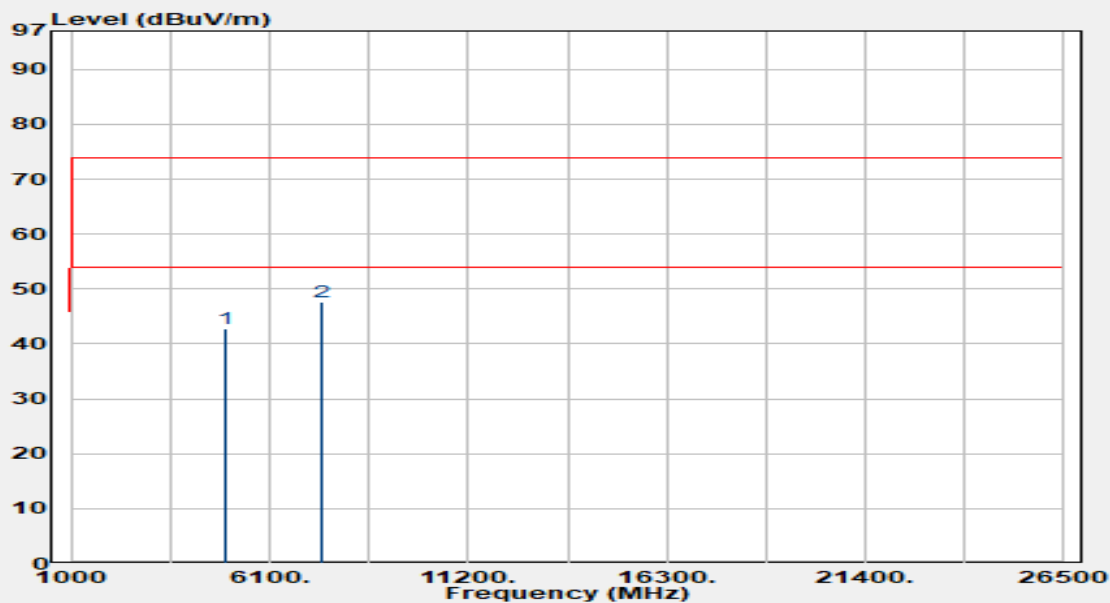
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	42.78	-25.04	17.74	54.00	-36.26
7440.000	Average	45.98	-25.04	20.94	54.00	-33.06

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-21
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	40.04	2.80	42.84	74.00	-31.16
7440.000	Peak	39.67	7.97	47.65	74.00	-26.35

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	42.84	-25.04	17.80	54.00	-36.20
7440.000	Average	47.65	-25.04	22.61	54.00	-31.39

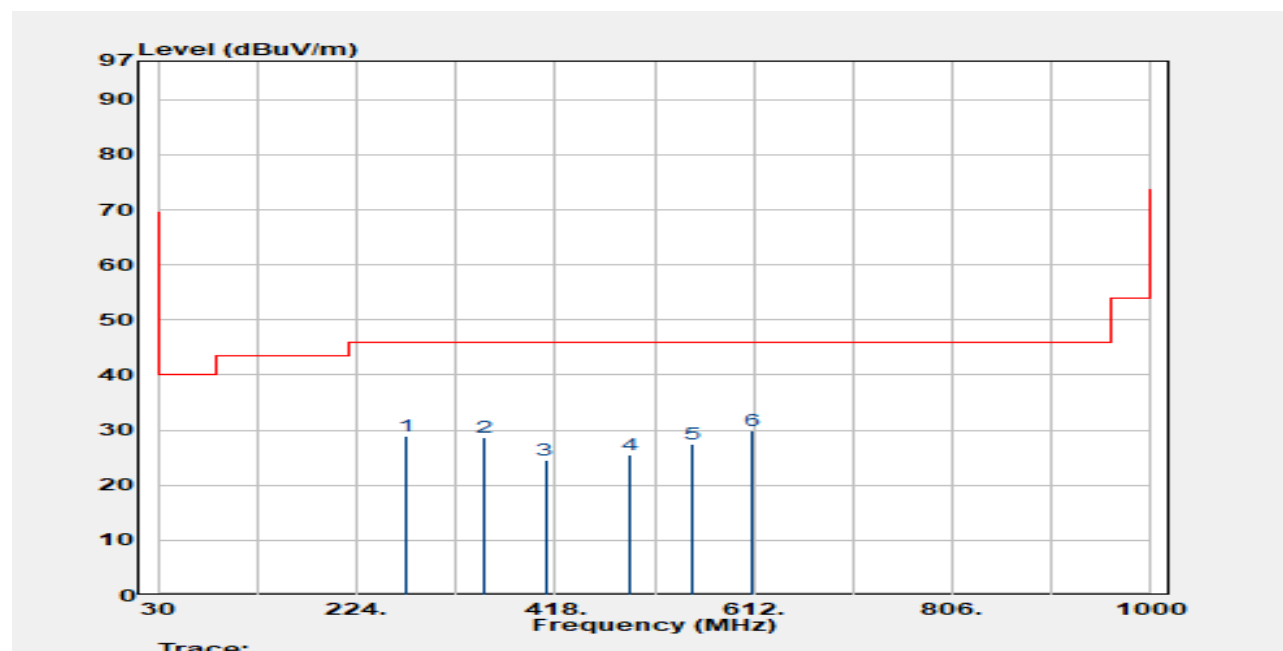
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BT_ANT (dipole)

Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



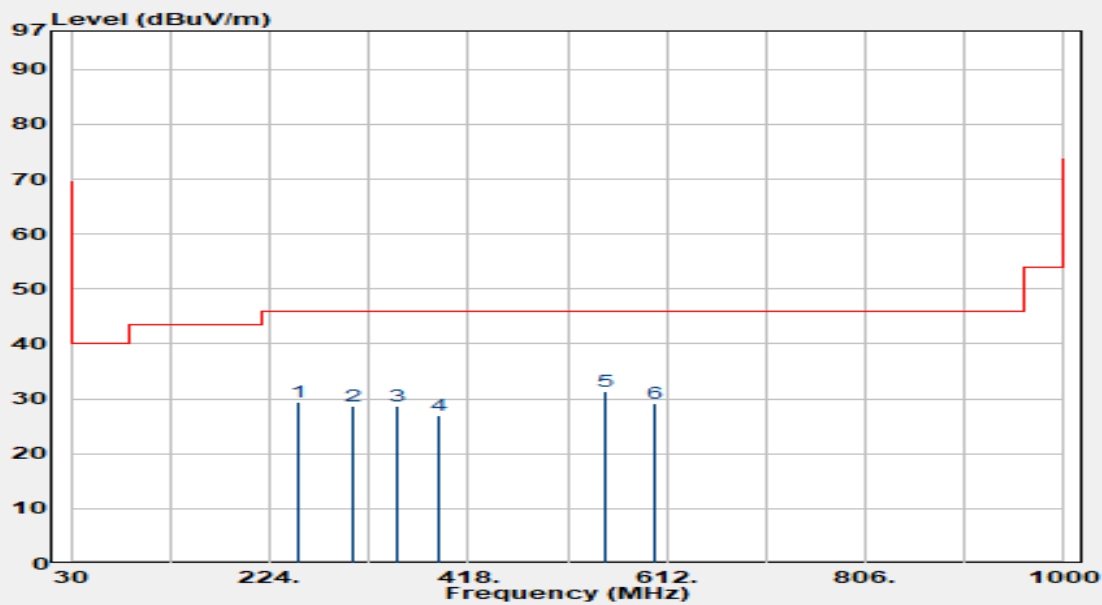
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
273.470	Peak	41.79	-12.97	28.82	46.00	-17.18
348.160	Peak	39.85	-11.19	28.66	46.00	-17.34
408.300	Peak	34.38	-9.71	24.67	46.00	-21.33
491.720	Peak	33.32	-7.84	25.48	46.00	-20.52
551.860	Peak	34.29	-6.76	27.53	46.00	-18.47
611.030	Peak	34.67	-4.82	29.86	46.00	-16.14

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



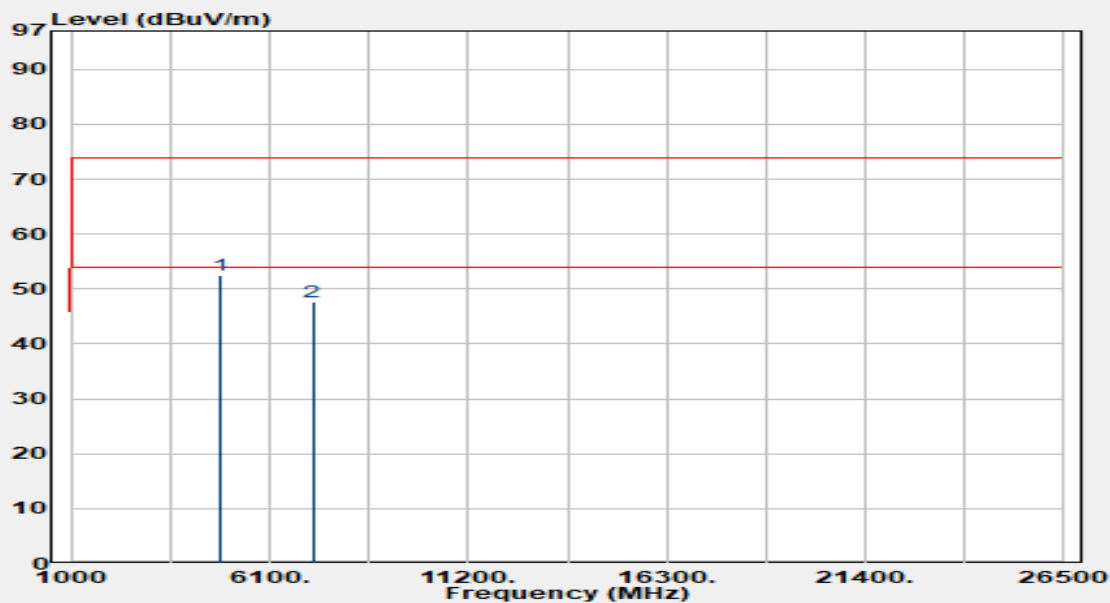
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
252.130	Peak	43.08	-13.63	29.45	46.00	-16.55
305.480	Peak	41.06	-12.44	28.62	46.00	-17.38
348.160	Peak	39.90	-11.19	28.71	46.00	-17.29
388.900	Peak	37.00	-10.01	26.99	46.00	-19.01
551.860	Peak	38.10	-6.76	31.34	46.00	-14.66
600.360	Peak	33.84	-4.78	29.05	46.00	-16.95

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	50.46	2.10	52.56	74.00	-21.44
7206.000	Peak	40.06	7.56	47.61	74.00	-26.39

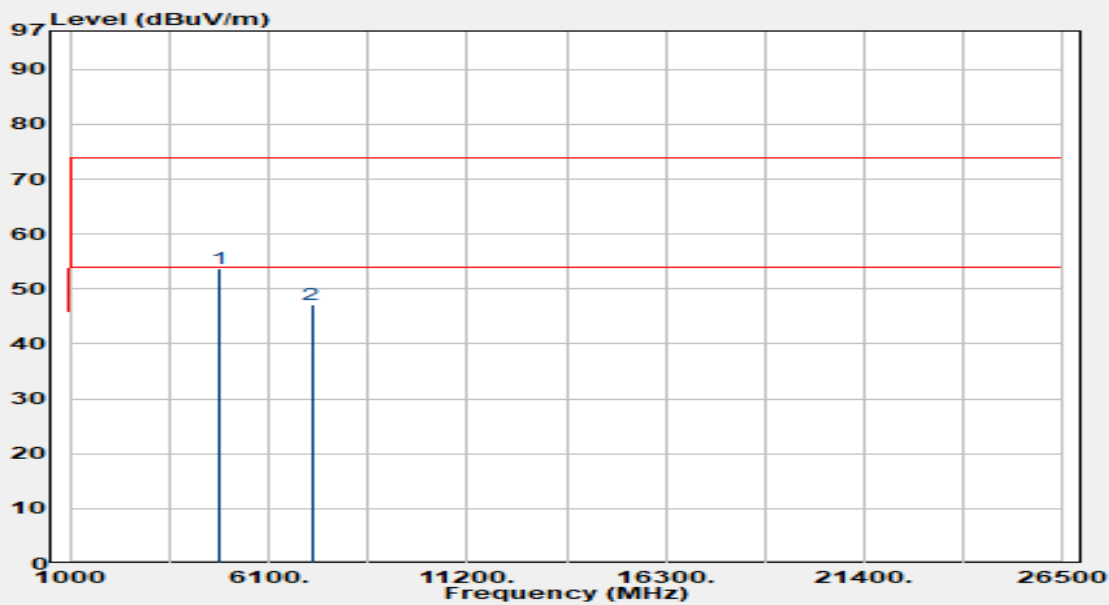
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	52.56	-24.73	27.83	54.00	-26.17
7206.000	Average	47.61	-24.73	22.88	54.00	-31.12

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	51.74	2.10	53.84	74.00	-20.16
7206.000	Peak	39.60	7.56	47.15	74.00	-26.85

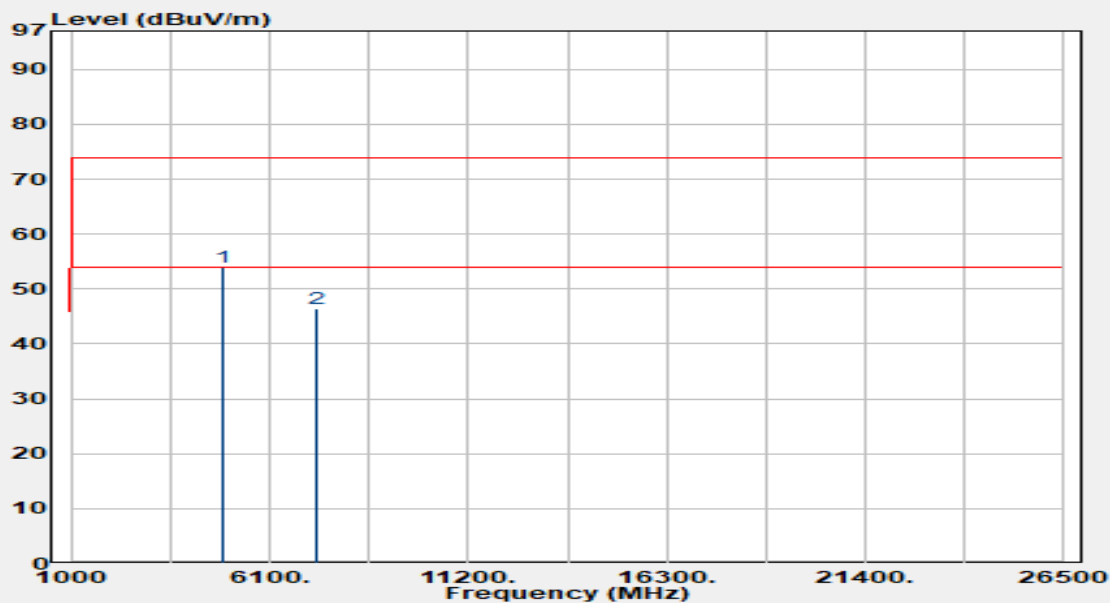
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	53.84	-24.73	29.11	54.00	-24.89
7206.000	Average	47.15	-24.73	22.42	54.00	-31.58

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	51.28	2.66	53.94	74.00	-20.06
7323.000	Peak	38.78	7.70	46.49	74.00	-27.51

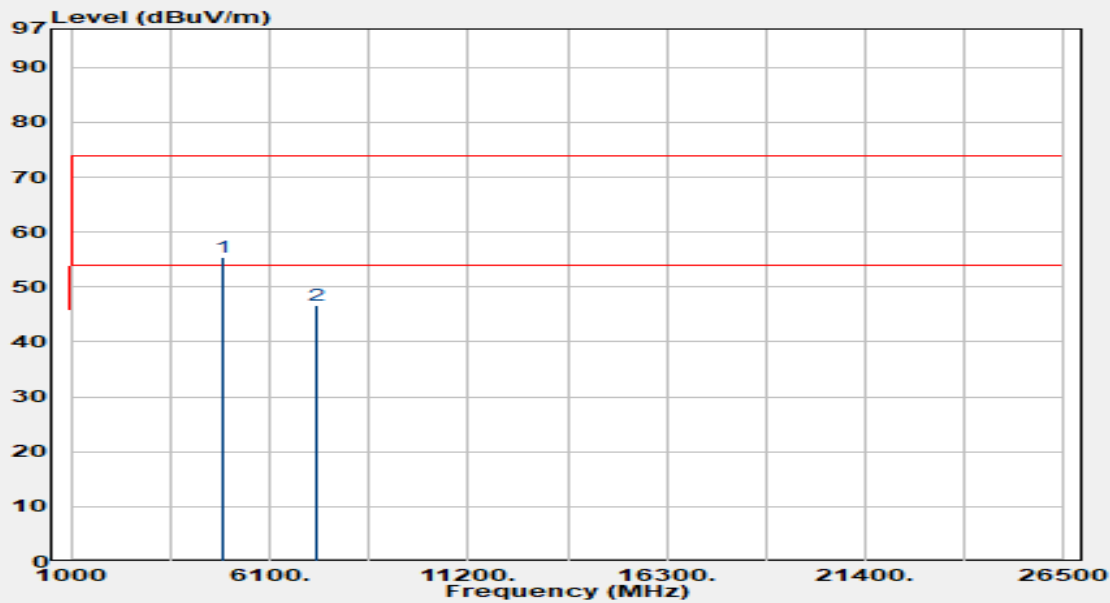
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	53.94	-24.73	29.21	54.00	-24.79
7323.000	Average	46.49	-24.73	21.76	54.00	-32.24

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 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
4882.000	Peak	52.73	2.66	55.39	74.00	-18.61
7323.000	Peak	38.95	7.70	46.65	74.00	-27.35

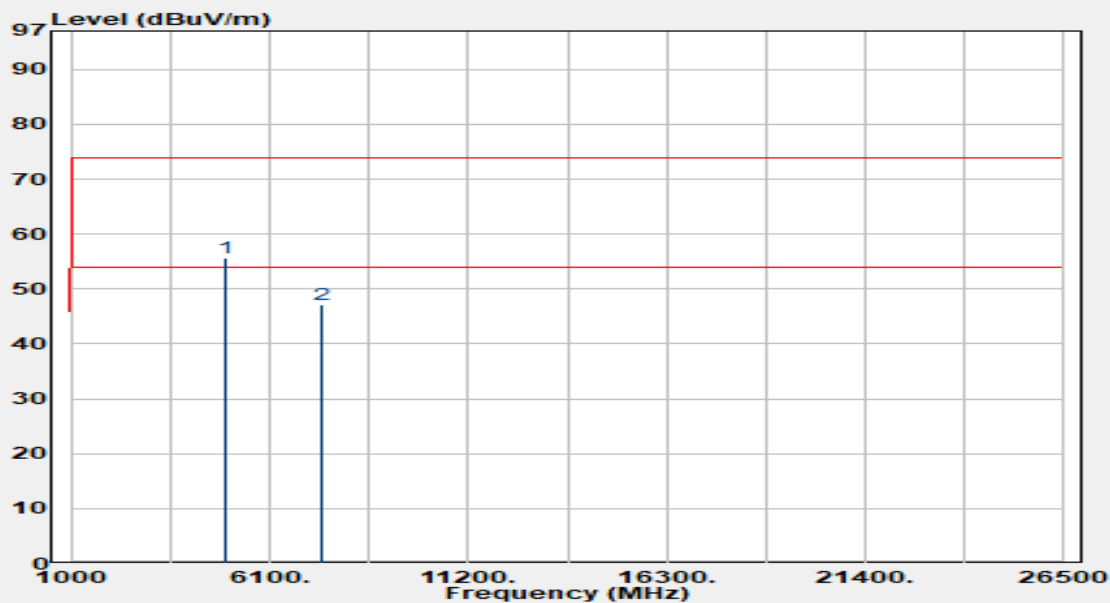
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	55.39	-24.73	30.66	54.00	-23.34
7323.000	Average	46.65	-24.73	21.92	54.00	-32.08

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	52.85	2.80	55.65	74.00	-18.35
7440.000	Peak	39.25	7.97	47.23	74.00	-26.77

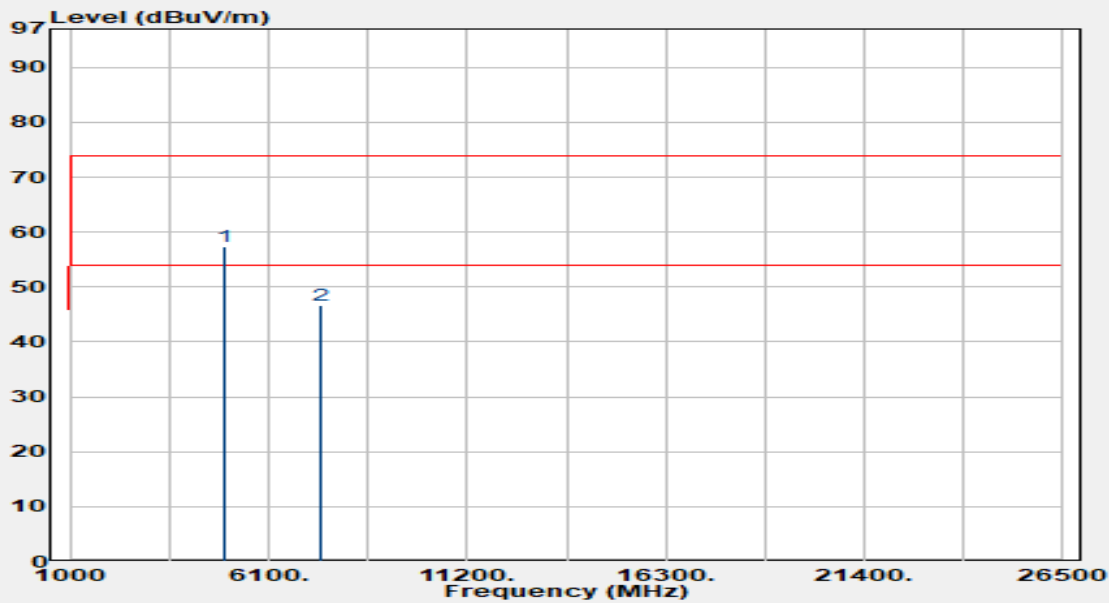
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	55.65	-24.73	30.92	54.00	-23.08
7440.000	Average	47.23	-24.73	22.50	54.00	-31.50

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Report Number :TERF2211002256ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	54.61	2.80	57.41	74.00	-16.59
7440.000	Peak	38.72	7.97	46.70	74.00	-27.30

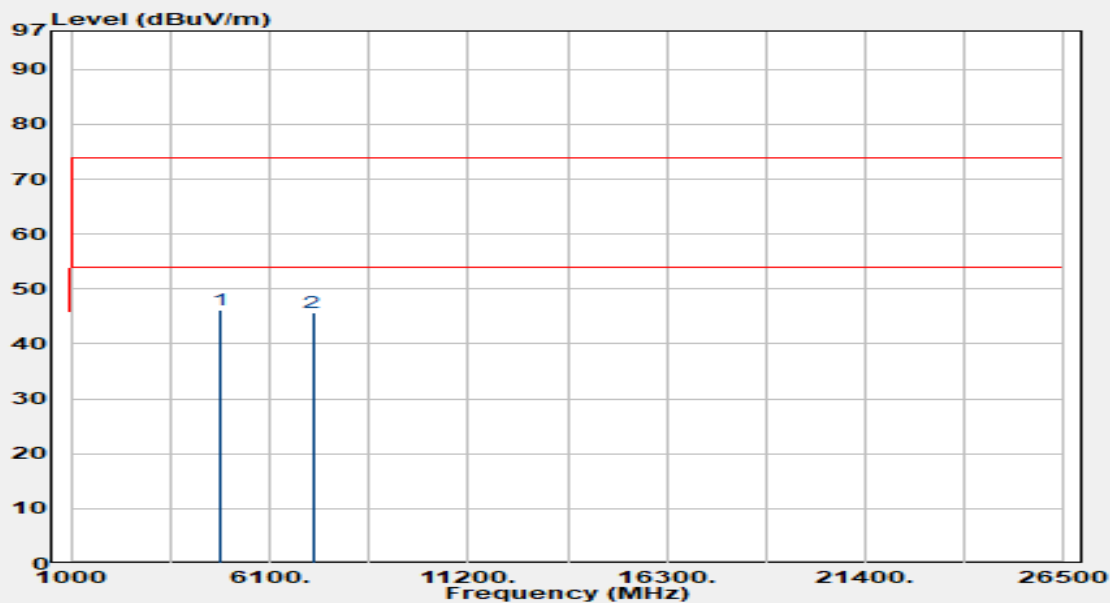
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	57.41	-24.73	32.68	54.00	-21.32
7440.000	Average	46.70	-24.73	21.97	54.00	-32.03

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.000	Peak	44.18	2.10	46.28	74.00	-27.72
7206.000	Peak	38.21	7.56	45.77	74.00	-28.23

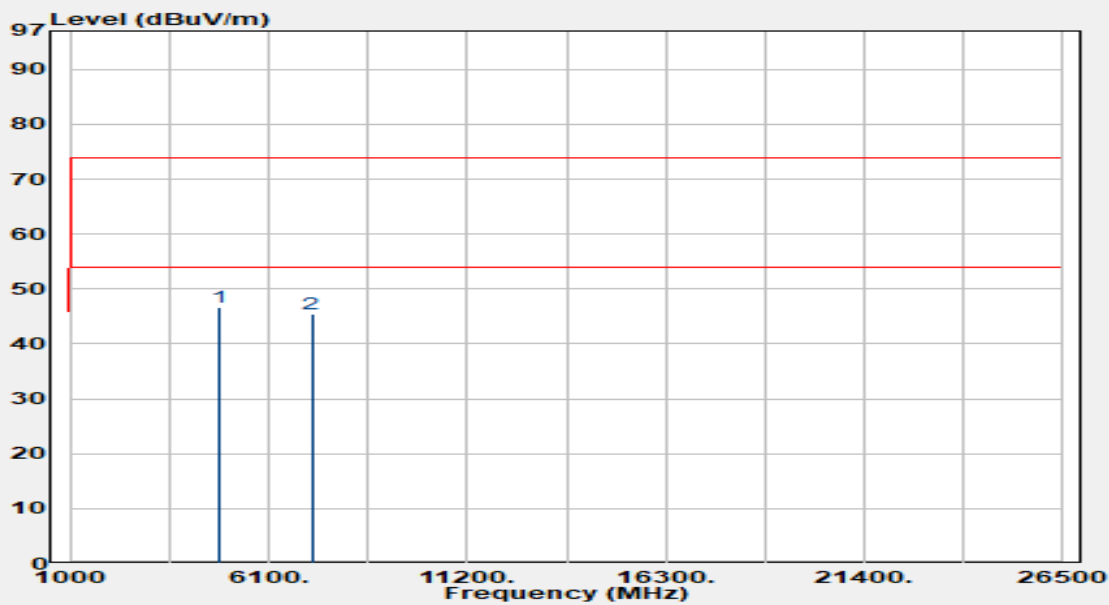
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	46.28	-25.35	20.93	54.00	-33.07
7206.000	Average	45.77	-25.35	20.42	54.00	-33.58

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 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
4804.000	Peak	44.61	2.10	46.71	74.00	-27.29
7206.000	Peak	37.92	7.56	45.47	74.00	-28.53

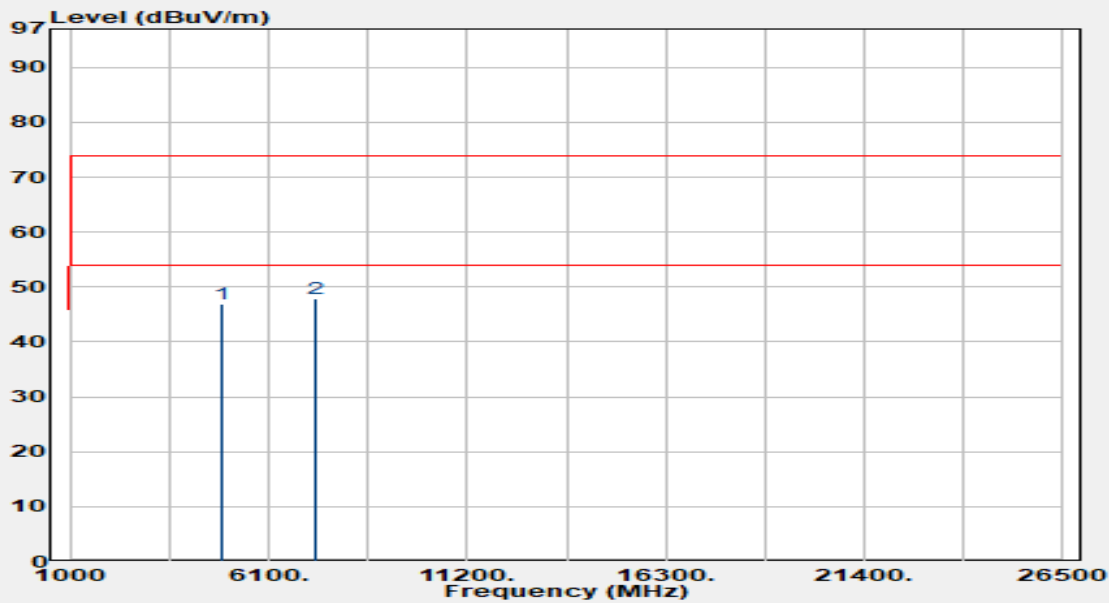
Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	46.71	-25.35	21.36	54.00	-32.64
7206.000	Average	45.47	-25.35	20.12	54.00	-33.88

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	44.26	2.66	46.92	74.00	-27.08
7323.000	Peak	40.13	7.70	47.83	74.00	-26.17

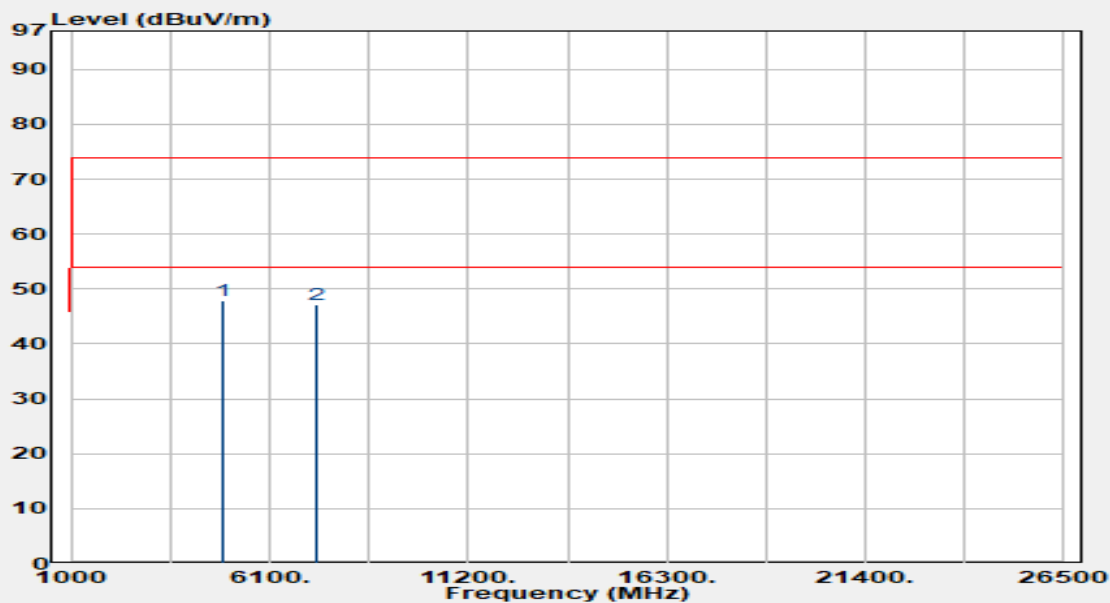
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	46.92	-25.35	21.57	54.00	-32.43
7323.000	Average	47.83	-25.35	22.48	54.00	-31.52

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.000	Peak	45.29	2.66	47.95	74.00	-26.05
7323.000	Peak	39.39	7.70	47.10	74.00	-26.90

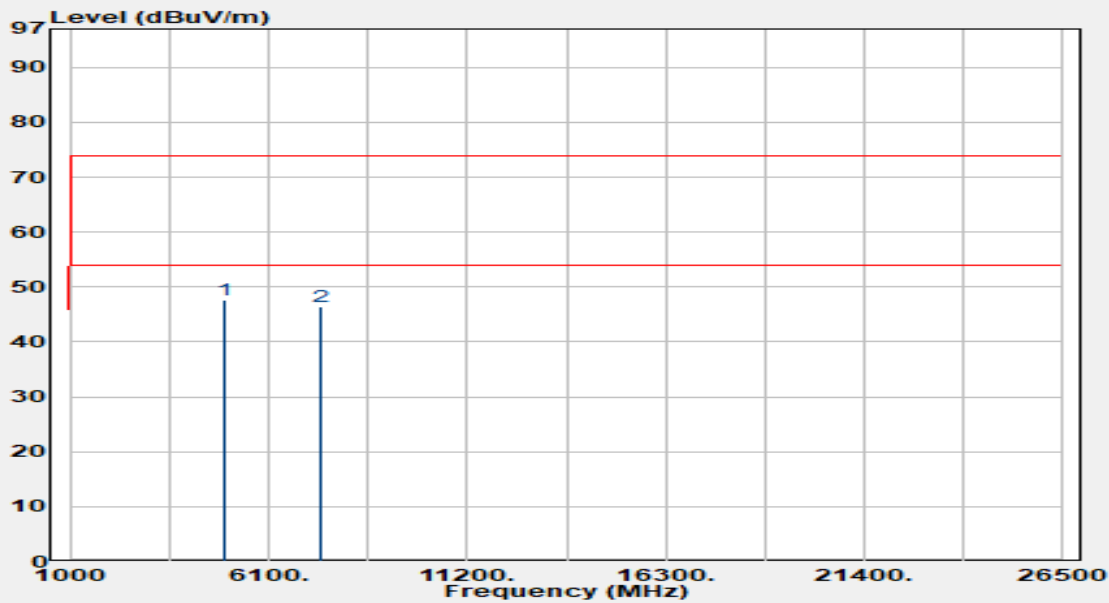
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	47.95	-25.35	22.60	54.00	-31.40
7323.000	Average	47.10	-25.35	21.75	54.00	-32.25

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Report Number :TERF2211002256ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-01-17
 Temp./Humi. :23.6/62
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	44.73	2.80	47.53	74.00	-26.47
7440.000	Peak	38.50	7.97	46.47	74.00	-27.53

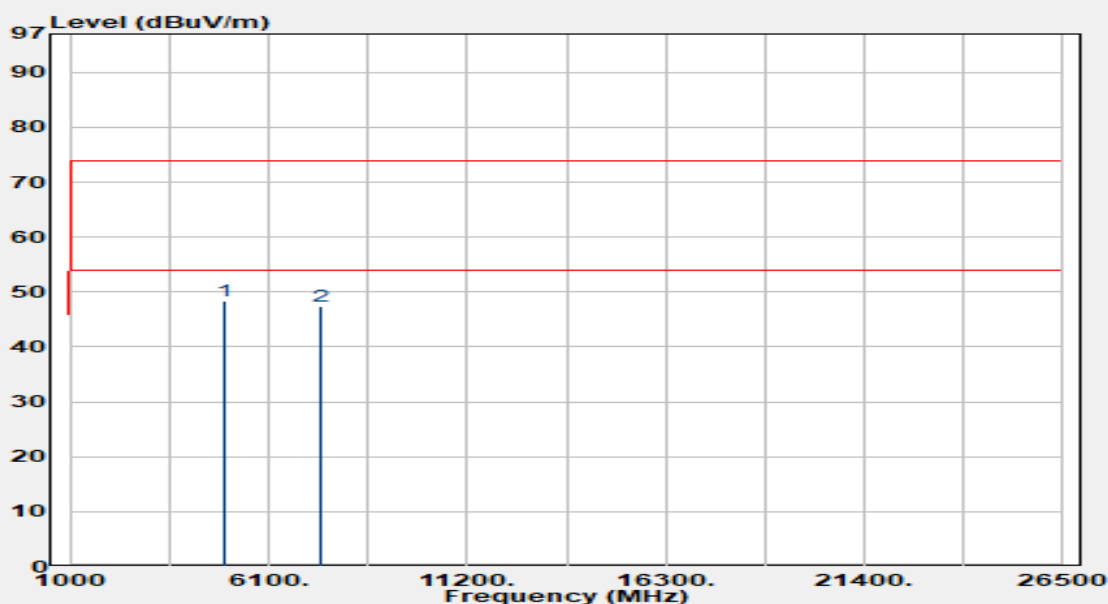
Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	47.53	-25.35	22.18	54.00	-31.82
7440.000	Average	46.47	-25.35	21.12	54.00	-32.88

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Report Number :TERF2211002256ER
Operation Mode :EDR 3M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-01-17
Temp./Humi. :23.6/62
Antenna Pol. :Horizontal
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.000	Peak	45.55	2.80	48.35	74.00	-25.65
7440.000	Peak	39.34	7.97	47.32	74.00	-26.68

Freq. MHz	Detector Mode AV	Peak Actual FS (dB μ V/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	48.35	-25.35	23.00	54.00	-31.00
7440.000	Average	47.32	-25.35	21.97	54.00	-32.03

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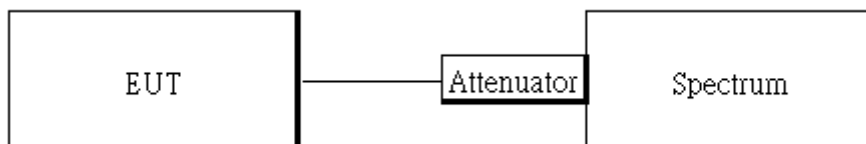
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12 FREQUENCY SEPARATION

12.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $2/3 \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

12.2 Test Setup



12.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = middle of hopping channel.
5. Set the RBW approximately 30% of the channel spacing, $VBW \geq RBW$.
6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
7. Sweep = auto.
8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

12.4 Measurement Result

Channel separation (MHz)	Limit	Result
1	$\geq 25\text{ kHz}$ or $2/3\text{ times } 20\text{dB bandwidth}$	PASS

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GFSK_1M_DH5_CH0CH1CH2



π/4DQPSK_2M_DH5_CH0CH1CH2



GFSK_1M_DH5_CH38CH39CH40



π/4DQPSK_2M_DH5_CH38CH39CH40



GFSK_1M_DH5_CH76CH77CH78



π/4DQPSK_2M_DH5_CH76CH77CH78



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BT_ANT

8DPSK_3M_DH5_CH0CH1CH2



GFSK_1M_DH5_CH0CH1CH2



8DPSK_3M_DH5_CH38CH39CH40



GFSK_1M_DH5_CH38CH39CH40



8DPSK_3M_DH5_CH76CH77CH78



GFSK_1M_DH5_CH76CH77CH78



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$\pi/4$ DQPSK_2M_DH5_CH0CH1CH2



8DPSK_3M_DH5_CH0CH1CH2



$\pi/4$ DQPSK_2M_DH5_CH38CH39CH40



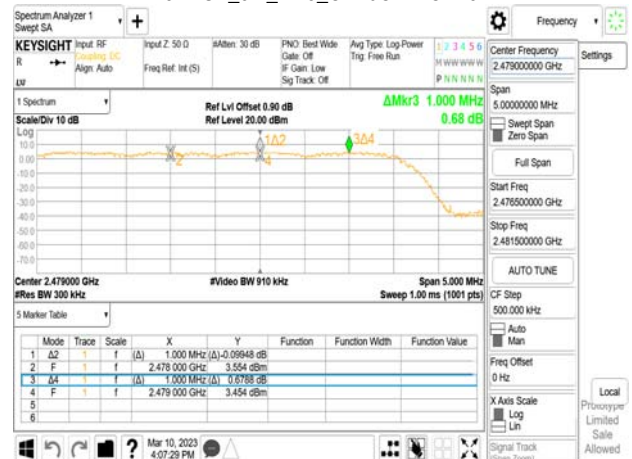
8DPSK_3M_DH5_CH38CH39CH40



$\pi/4$ DQPSK_2M_DH5_CH76CH77CH78



8DPSK_3M_DH5_CH76CH77CH78



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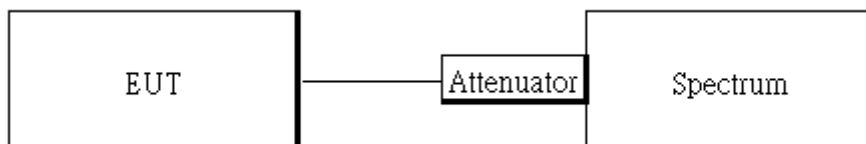
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13 NUMBER OF HOPPING FREQUENCY

13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

13.2 Test Setup



13.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW = 30% of the channel spacing, VBW $\geq$ RBW., Detector = Peak
6. Max hold, view and count how many channel in the band.

13.4 Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	>15
2.441 GHz – 2.4835 GHz	39	
2.4 GHz ~2.4835 GHz	(40+39) = 79	

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ANT0

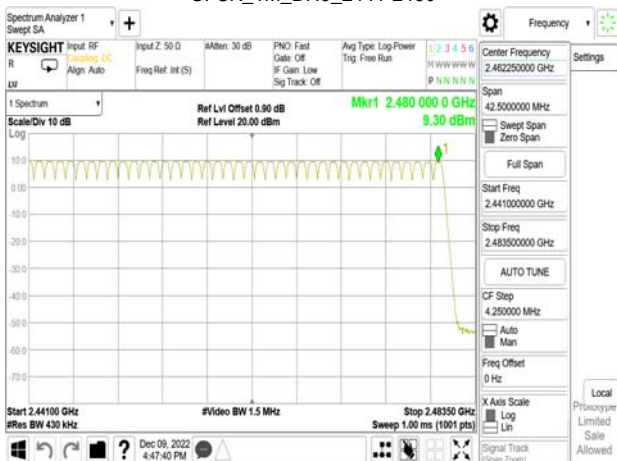
GFSK_1M_DH5_2402-2441



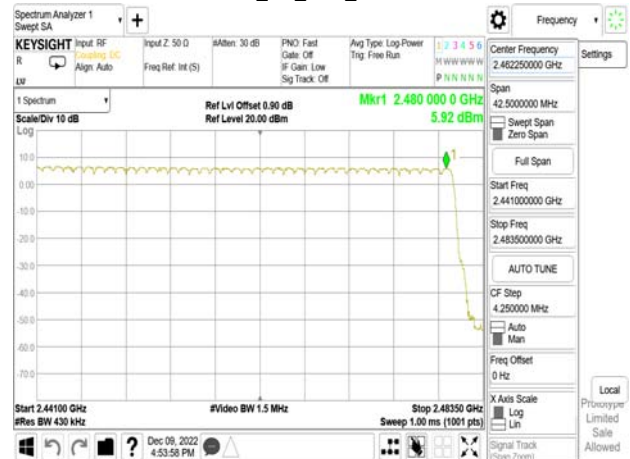
8DPSK_3M_DH5_2402-2441



GFSK_1M_DH5_2441-2480



8DPSK_3M_DH5_2441-2480



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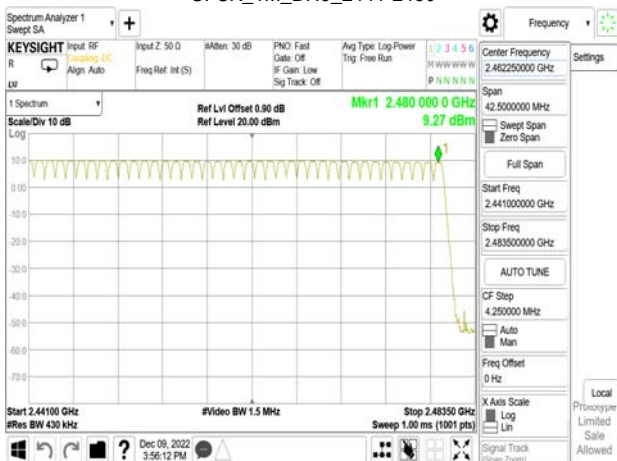
GFSK_1M_DH5_2402-2441



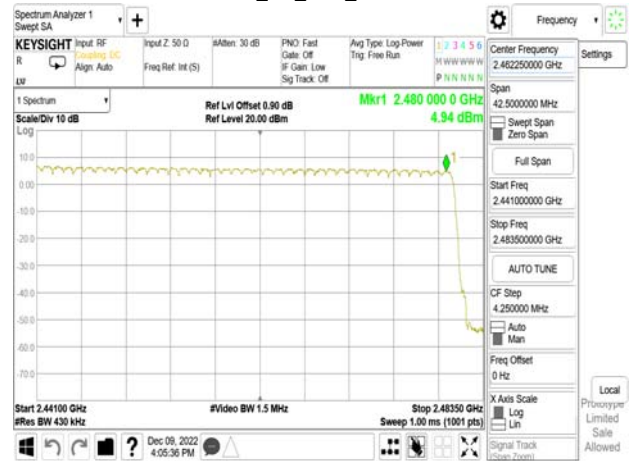
8DPSK_3M_DH5_2402-2441



GFSK_1M_DH5_2441-2480



8DPSK_3M_DH5_2441-2480



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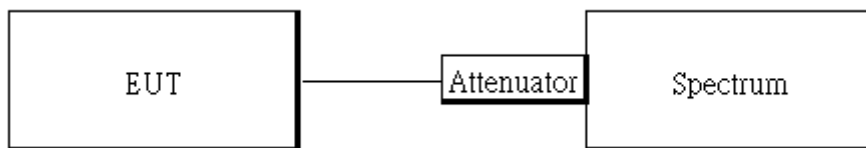
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14 TIME OF OCCUPANCY (DWELL TIME)

14.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

14.2 Test Setup



14.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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14.4 Measurement Result

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GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	DH1	120.00	400ms
	DH3	262.40	400ms
	DH5	307.20	400ms

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	2DH1	121.60	400ms
	2DH3	260.80	400ms
	2DH5	307.20	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	3DH1	123.20	400ms
	3DH3	262.40	400ms
	3DH5	307.20	400ms

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.375	*	(1600/2/79)	*	31.6	=	120.00	(ms)
	DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot	=	0.380	*	(1600/2/79)	*	31.6	=	121.60	(ms)
	2DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80	(ms)
	2DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.385	*	(1600/2/79)	*	31.6	=	123.20	(ms)
	3DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40	(ms)
	3DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

A period time = 0.4 (s) * 79 = 31.6 (s)

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GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	DH1	115.20	400ms
	DH3	257.60	400ms
	DH5	307.20	400ms

 $\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	2DH1	118.40	400ms
	2DH3	259.20	400ms
	2DH5	307.20	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	3DH1	118.40	400ms
	3DH3	259.20	400ms
	3DH5	308.80	400ms

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.360	*	(1600/2/79)	*	31.6	=	115.20	(ms)
	DH3 time slot	=	1.610	*	(1600/4/79)	*	31.6	=	257.60	(ms)
	DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot	=	0.370	*	(1600/2/79)	*	31.6	=	118.40	(ms)
	2DH3 time slot	=	1.620	*	(1600/4/79)	*	31.6	=	259.20	(ms)
	2DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20	(ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.370	*	(1600/2/79)	*	31.6	=	118.40	(ms)
	3DH3 time slot	=	1.620	*	(1600/4/79)	*	31.6	=	259.20	(ms)
	3DH5 time slot	=	2.895	*	(1600/6/79)	*	31.6	=	308.80	(ms)

A period time = 0.4 (s) * 79 = 31.6 (s)

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Dwell Time_GFSK_1M_DH1_2441MHz



Dwell Time_GFSK_1M_DH3_2441MHz



Dwell Time_GFSK_1M_DH5_2441MHz



Dwell Time_π/4DQPSK_2M_DH1_2441MHz



Dwell Time_π/4DQPSK_2M_DH3_2441MHz



Dwell Time_π/4DQPSK_2M_DH5_2441MHz



Dwell Time_8DPSK_3M_DH1_2441MHz

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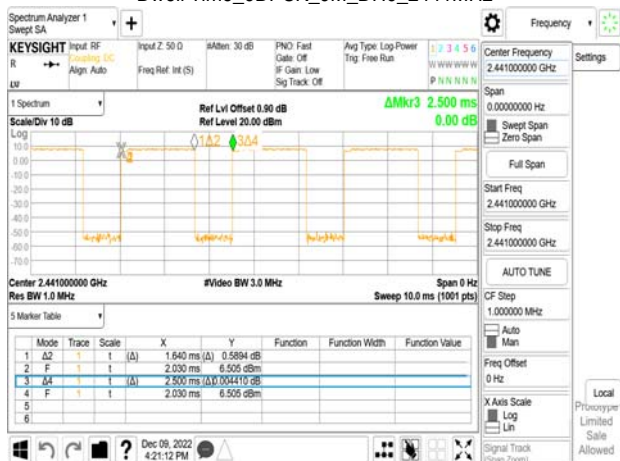
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Dwell Time_8DPSK_3M_DH3_2441MHz



Dwell Time_GFSK_1M_DH3_2441MHz



Dwell Time_8DPSK_3M_DH5_2441MHz



Dwell Time_GFSK_1M_DH5_2441MHz

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Dwell Time_GFSK_1M_DH1_2441MHz

Dwell Time_π/4DQPSK_2M_DH1_2441MHz

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Dwell Time_pi/4DQPSK_2M_DH3_2441MHz



Dwell Time_pi/4DQPSK_2M_DH5_2441MHz



Dwell Time_8DPSK_3M_DH1_2441MHz



Dwell Time_8DPSK_3M_DH3_2441MHz



Dwell Time_8DPSK_3M_DH5_2441MHz



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15 ANTENNA REQUIREMENT

15.1 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.

15.2 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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