

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Product Name: Mobile Phone

Brand Name: POCO

Model No.: 2404APC5FG

Model Difference: N/A

Report Number: TERF2403000654ER

FCC ID 2AFZZPC5FG

Date of EUT Received: March 4, 2024

Date of Test: March 4, 2024 ~ March 11, 2024,
March 18, 2024 ~ March 19, 2024

Issue Date: April 2, 2024

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.

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
TERF2403000654ER	00	Original.	March 29, 2024	Karen Huang	
TERF2403000654ER	01	Revised date of test on page 1	April 2, 2024	Karen Huang	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Mobile Phone
Brand Name:	POCO
Model No.:	2404APC5FG
Model Difference:	N/A
Hardware Version:	1351N19A
Software Version:	Xiaomi HyperOS 1.0
EUT Series No.:	DN404W000121
Power Supply:	3.84Vdc from Rechargeable Li-ion Polymer Battery or 5Vdc from adapter
Test Software (Name/Version)	EngineerMode/version:1.0

1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	9.65dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$

1.3 Antenna Designation

Antenna Type	Freq.	Peak Antenna Gain (dBi)
PIFA	2.4GHz	-0.8

Note:

1. 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

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	TW3702
		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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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

2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

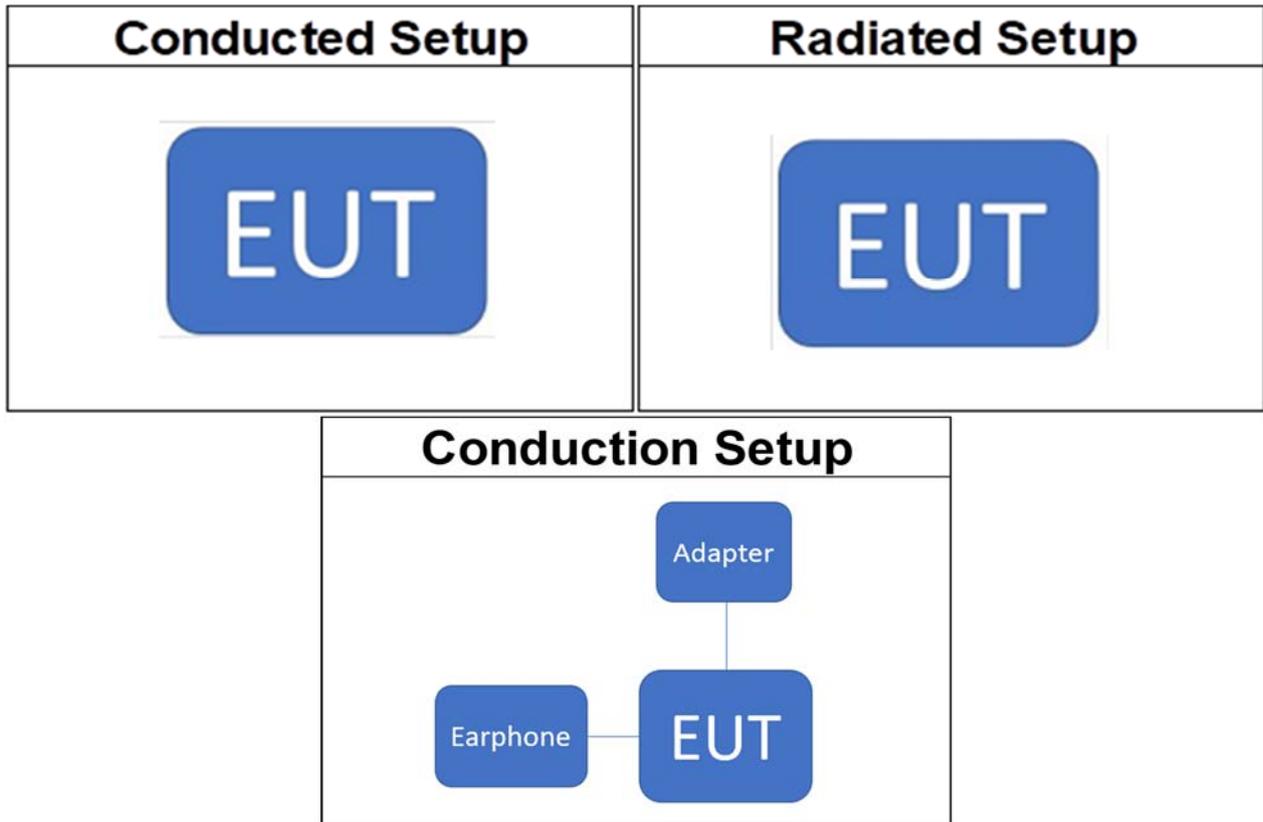
2.4.2 For all conducted test items:

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

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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Aohai	MDY-16-EH	N/A	N/A	N/A
Adapter	Chenyang	MDY-16-EH	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	N
§15.247(b)(1)	Peak Output Power	Compliant	
§15.247(a)(1)	Emission Bandwidth	Compliant	
§15.247(d) §15.209	Conducted Band Edge and Spurious Emission	Compliant	
§15.247(d) §15.209	Radiated Band Edge and Spurious Emission	Compliant	
§15.205	Restricted Bands	Compliant	
§15.247(a)(1)	Frequency Separation	Compliant	
§15.247(a)(1)(iii)	Number of hopping frequency Time of Occupancy	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2403000506ER.

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

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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, Spurious Emission				
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	DH5
			$\pi/4$ -DQPSK	2DH5
			8-DPSK	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

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MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	0 to 78	39	GFSK	DH5
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	DH5/3DH5
<p>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.</p>				

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2023	06/21/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2023	06/21/2024
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024

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	07/13/2023	07/12/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	2132007	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911391	09/25/2023	09/24/2024
Power Sensor	Anritsu	MA2411B	1911392	09/25/2023	09/24/2024
DC Block	Mini-Circuits	BLK-18-S+	31129	12/12/2023	12/11/2024

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/12/2024	01/11/2025
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/18/2023	12/17/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/17/2023	10/16/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESCI 7	100759	08/21/2023	08/20/2024
Site Cal	SGS	SAC 1	N/A	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A09469	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/31/2023	07/30/2024
4G High Pass Filter	WI	WHKX4.0	24	12/12/2023	12/11/2024
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M3	12/12/2023	12/11/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/31/2023	08/30/2024
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	09/12/2023	09/11/2024

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

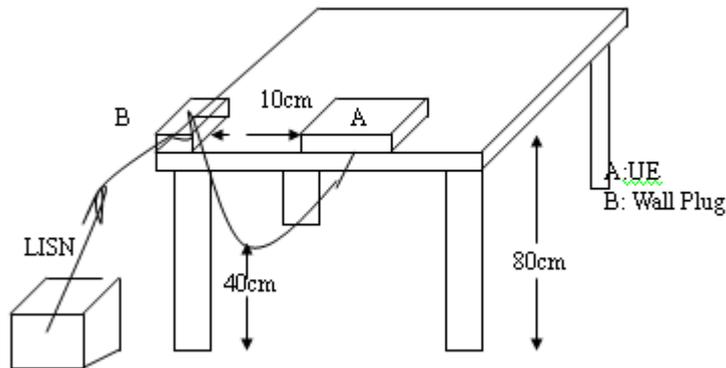
Note

- 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 C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result

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

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

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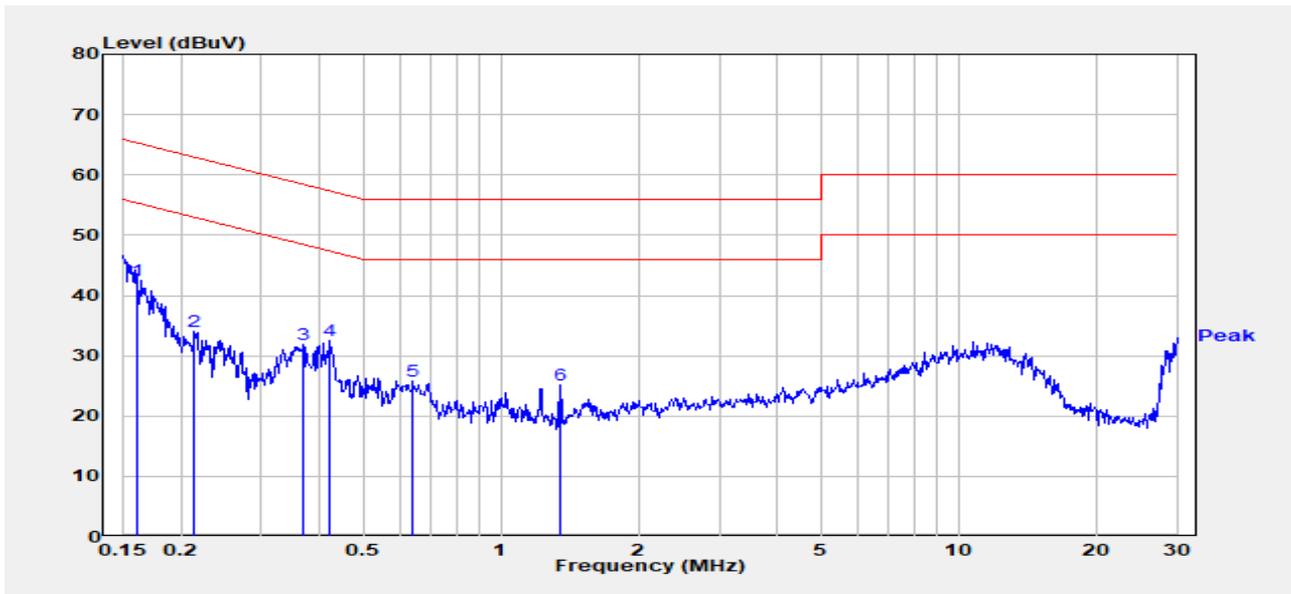
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Member of SGS Group

AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2403000654ER	Test Site	:Conduction 1
Operation Mode	:BT	Test Date	:2024-03-19
Power	:120V/60Hz	Temp./Humi.	:23.1°C/58%
Probe	:L	Engineer	:Cooper Hsu
Note:	:Aohai		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.161	Peak	32.40	10.13	42.53	65.43	-22.90
0.214	Peak	23.94	10.13	34.07	63.05	-28.98
0.371	Peak	21.83	10.15	31.98	58.47	-26.50
0.424	Peak	22.32	10.15	32.48	57.37	-24.90
0.644	Peak	15.52	10.18	25.70	56.00	-30.30
1.352	Peak	15.06	10.20	25.25	56.00	-30.75

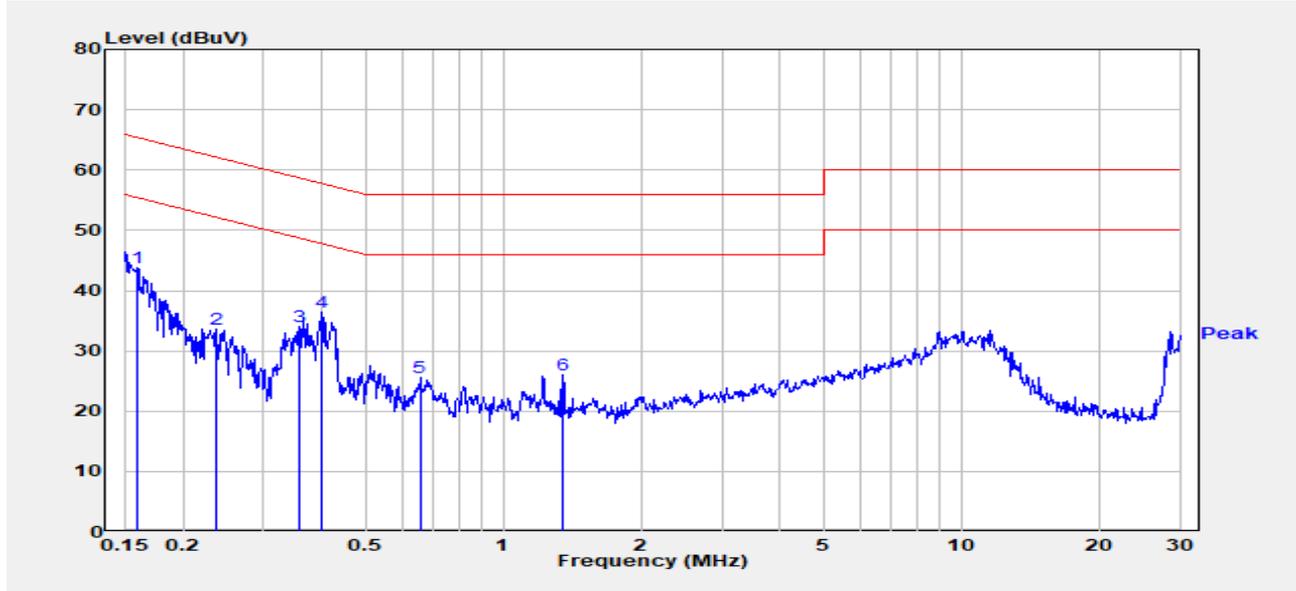
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Report Number :TERF2403000654ER
 Operation Mode :BT
 Power :120V/60Hz
 Probe :N
 Note: :Aohai

Test Site :Conduction 1
 Test Date :2024-03-19
 Temp./Humi. :23.1°C/58%
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.159	Peak	33.72	10.12	43.84	65.52	-21.68
0.237	Peak	23.58	10.13	33.71	62.22	-28.50
0.360	Peak	23.96	10.15	34.10	58.74	-24.63
0.402	Peak	26.26	10.15	36.41	57.81	-21.41
0.658	Peak	15.37	10.17	25.55	56.00	-30.45
1.352	Peak	15.89	10.19	26.08	56.00	-29.92

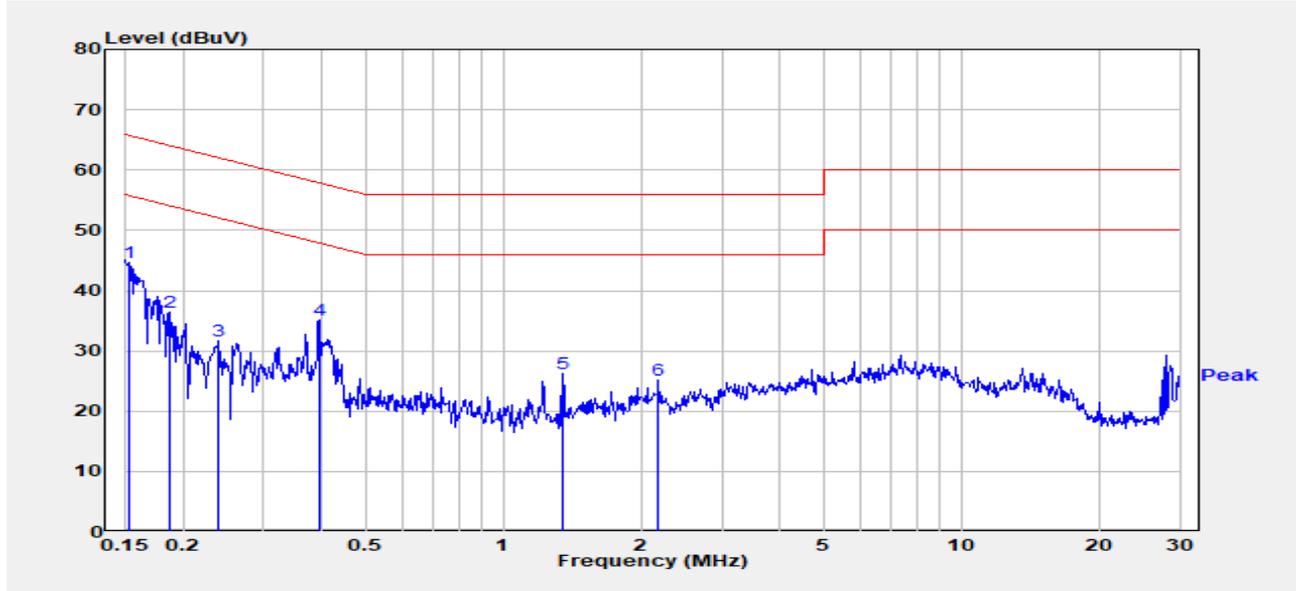
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Report Number :TERF2403000654ER
 Operation Mode :BT
 Power :120V/60Hz
 Probe :L
 Note: :Chenyang

Test Site :Conduction 1
 Test Date :2024-03-19
 Temp./Humi. :23.1°C/58%
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Peak	34.60	10.13	44.73	65.87	-21.14
0.187	Peak	26.28	10.13	36.41	64.15	-27.74
0.239	Peak	21.45	10.14	31.58	62.13	-30.54
0.396	Peak	25.01	10.15	35.16	57.95	-22.79
1.352	Peak	15.95	10.20	26.15	56.00	-29.85
2.178	Peak	14.96	10.20	25.16	56.00	-30.84

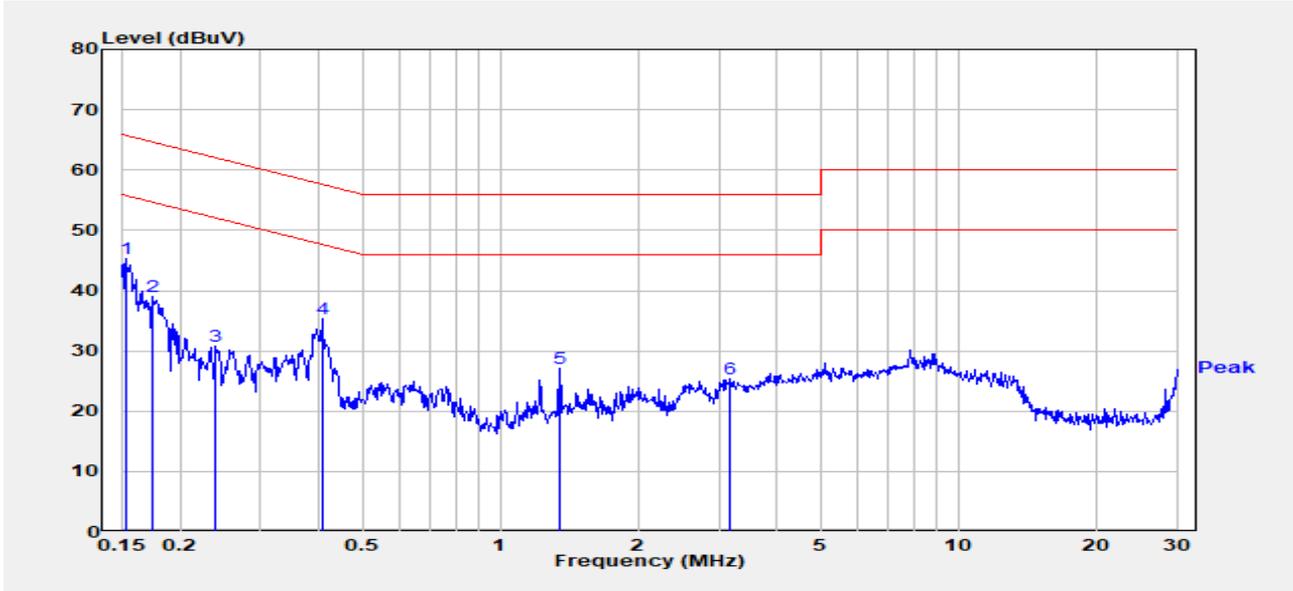
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Report Number :TERF2403000654ER
 Operation Mode :BT
 Power :120V/60Hz
 Probe :N
 Note: :Chenyang

Test Site :Conduction 1
 Test Date :2024-03-19
 Temp./Humi. :23.1°C/58%
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Peak	35.16	10.12	45.28	65.87	-20.59
0.175	Peak	28.85	10.12	38.97	64.72	-25.76
0.239	Peak	20.58	10.13	30.71	62.13	-31.42
0.408	Peak	25.10	10.15	35.25	57.68	-22.43
1.352	Peak	16.95	10.19	27.14	56.00	-28.86
3.173	Peak	15.09	10.27	25.36	56.00	-30.64

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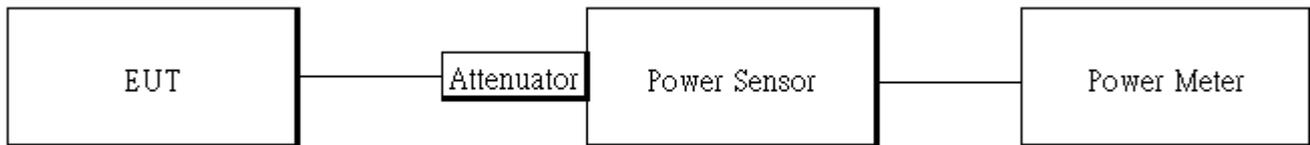
8 PEAK OUTPUT POWER MEASUREMENT

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. Duty cycle of test signal is < 98 %, duty factor shall be considered.
4. 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 >=20dB bandwidth)
5. Record the max. reading.
6. Repeat above procedures until all default test channel is completed.

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8.4 Peak & Average Power Measurement Result

1M BR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	8.85	7.674	1000
Mid	2441	9	9.25	8.414	1000
High	2480	9	9.65	9.226	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	8.47	7.025	1000
Mid	2441	9	8.92	7.792	1000
High	2480	9	9.21	8.330	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	8.13	6.501	125
Mid	2441	9	8.47	7.031	125
High	2480	9	8.94	7.834	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	5.45	3.511	125
Mid	2441	9	5.70	3.719	125
High	2480	9	6.17	4.144	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	8.16	6.546	125
Mid	2441	9	8.51	7.096	125
High	2480	9	8.96	7.870	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	5.49	3.537	125
Mid	2441	9	5.74	3.747	125
High	2480	9	6.22	4.184	125

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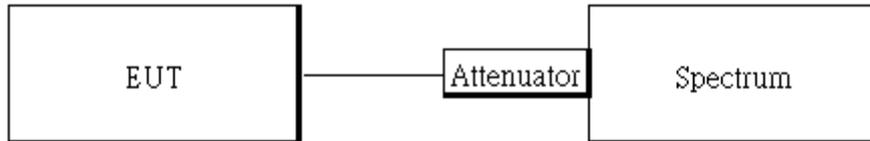
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9 EMISSION BANDWIDTH MEASUREMENT

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. Repeat above procedures until all test default channel is completed

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9.4 20dB Bandwidth

GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.8527	0.57
Mid	0.8497	0.57
High	0.8499	0.57

$\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.272	0.85
Mid	1.268	0.85
High	1.268	0.85

8-DPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.272	0.85
Mid	1.268	0.85
High	1.267	0.84

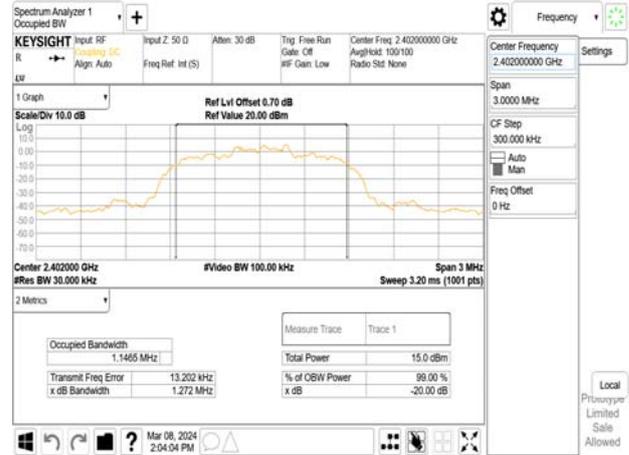
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OBW 20dB_GFSK_1M_DH5_2402MHz



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

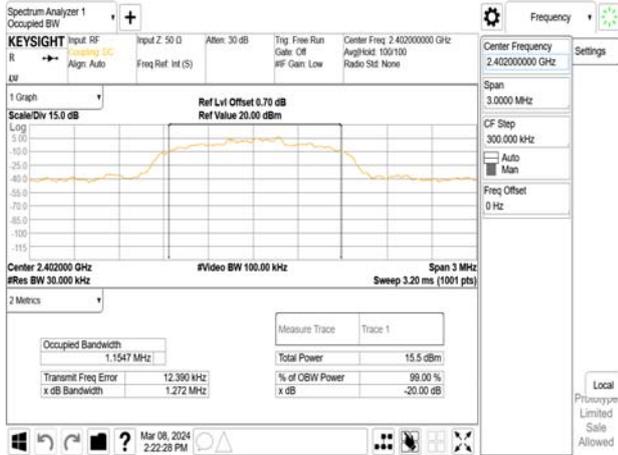


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OBW 20dB_8DPSK_3M_DH5_2402MHz



OBW 20dB_8DPSK_3M_DH5_2441MHz



OBW 20dB_8DPSK_3M_DH5_2480MHz



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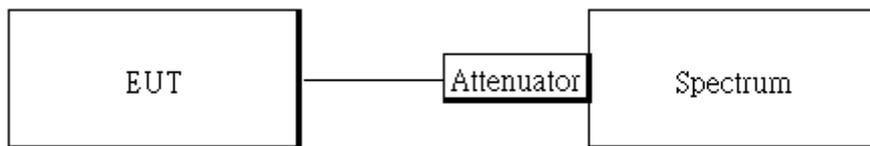
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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

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.

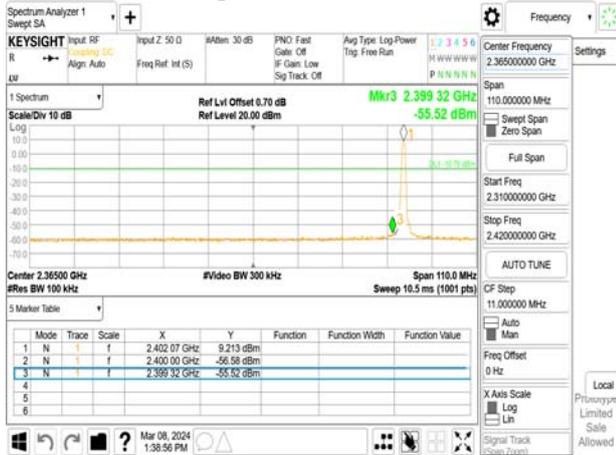
10.4 Measurement Result

See next page for test plots.

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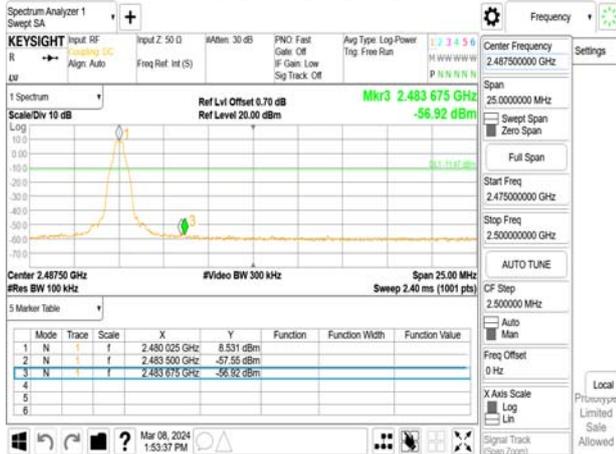
Band Edge_GFSK_1M_DH5_2402MHz



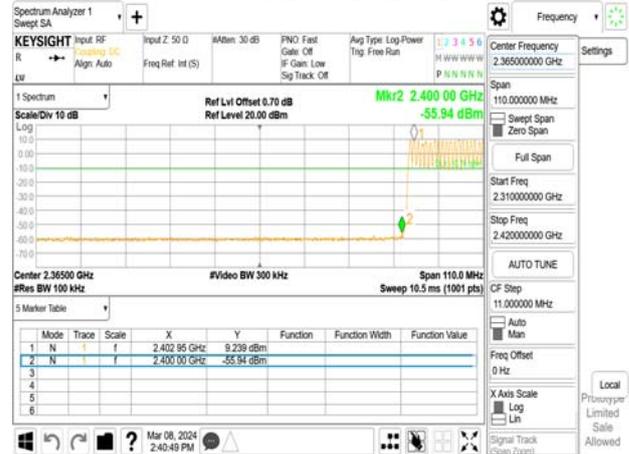
Band Edge_8DPSK_3M_DH5_2480MHz



Band Edge_GFSK_1M_DH5_2480MHz



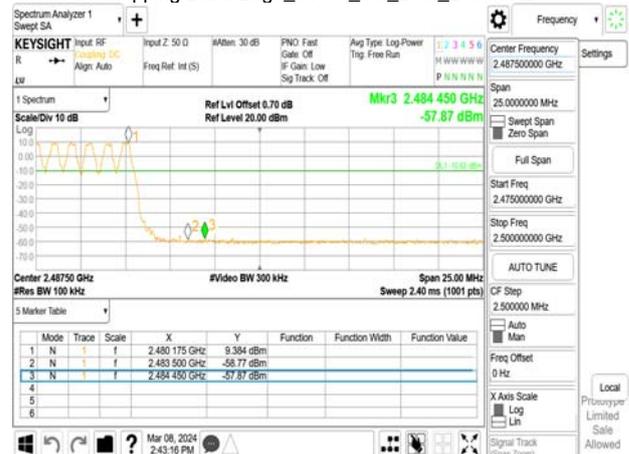
Hopping Band Edge_GFSK_1M_DH5_2402MHz



Band Edge_8DPSK_3M_DH5_2402MHz



Hopping Band Edge_GFSK_1M_DH5_2480MHz



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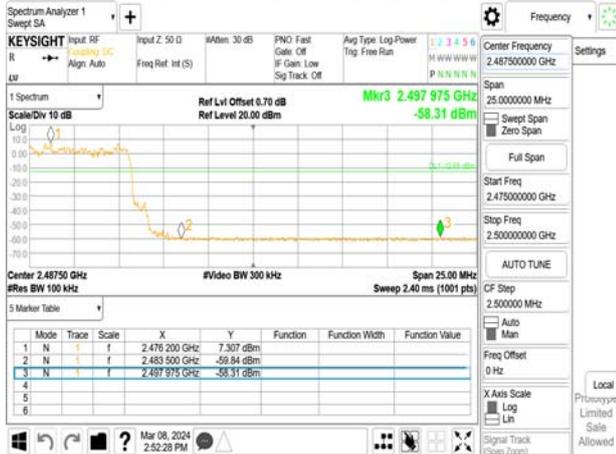
Hopping Band Edge_8DPSK_3M_DH5_2402MHz



Spurious Emission_GFSK_1M_DH5_2441MHz



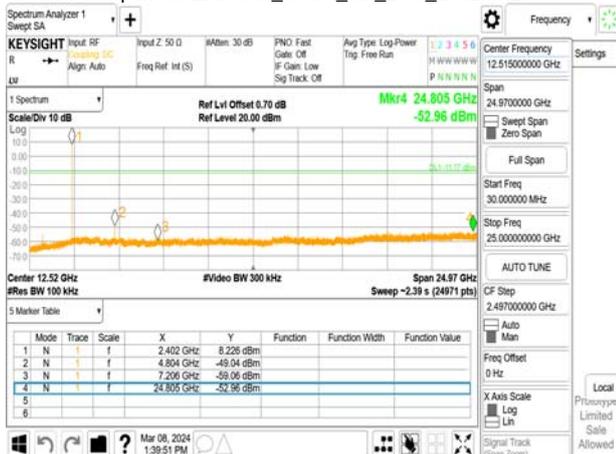
Hopping Band Edge_8DPSK_3M_DH5_2480MHz



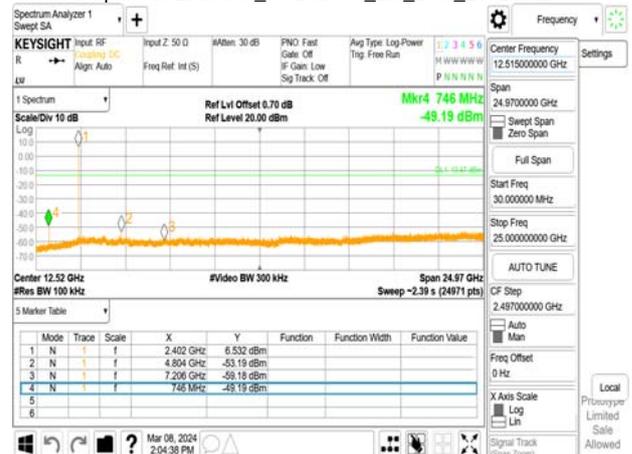
Spurious Emission_GFSK_1M_DH5_2480MHz



Spurious Emission_GFSK_1M_DH5_2402MHz



Spurious Emission_π/4DQPSK_2M_DH5_2402MHz



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Spurious Emission_π/4DQPSK_2M_DH5_2441MHz



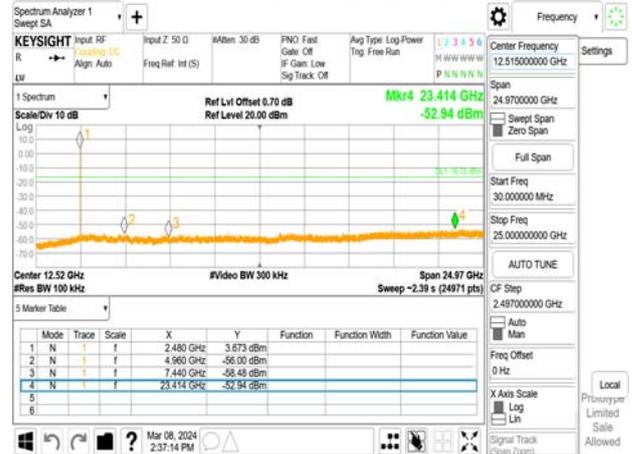
Spurious Emission_8DPSK_3M_DH5_2441MHz



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), 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 limit as below. And according to §15.33(a) (1), 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:

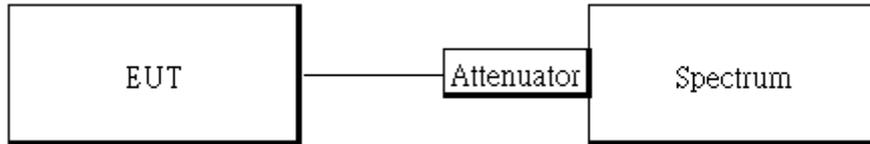
1. The lower limit shall apply at the transition frequencies.

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11.2 Test Setup

11.2.1 Duty Cycle Correction Factor

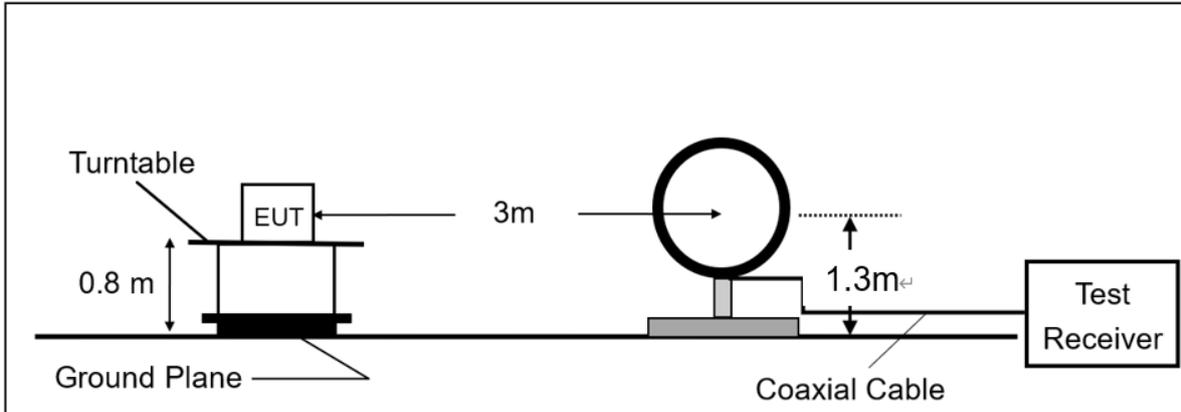


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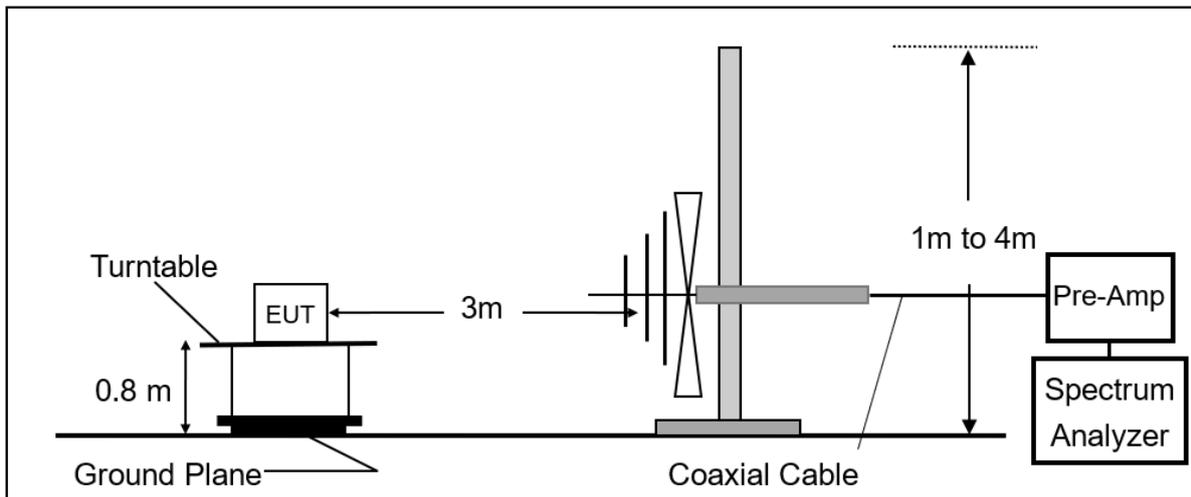
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11.2.2 Radiated Emission

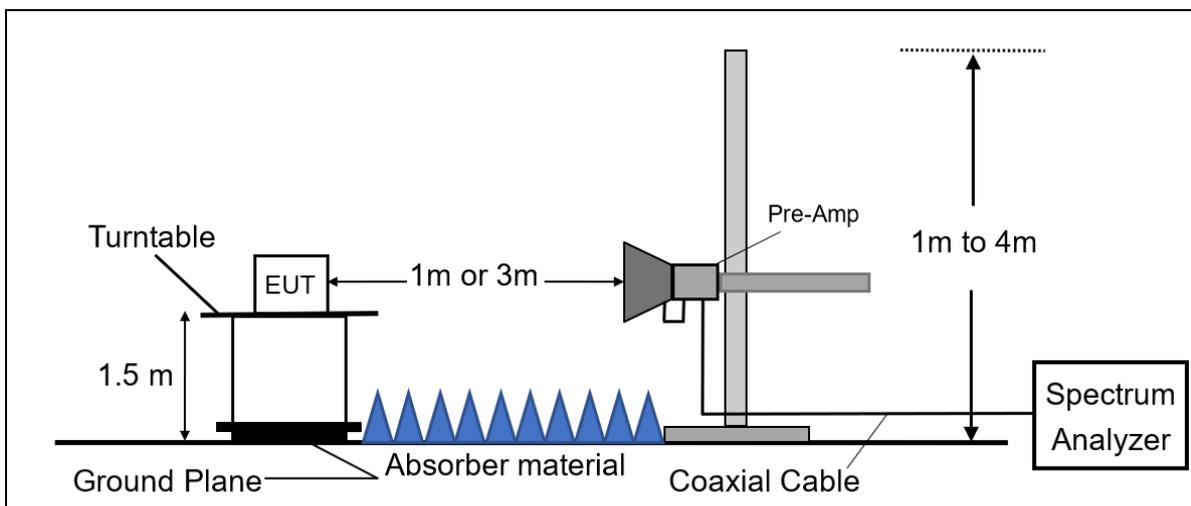
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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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.
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.

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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) was not reported.

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11.6 Measurement Result:

11.6.1 Duty Cycle Correction Factor

Bluetooth 1M

Time ON of 100ms: 5.600 ms

Duty Cycle=5.6ms / 100ms= 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 / 100ms= 0.058

Duty Cycle correction factor=20 LOG 0.058 = -24.73 dB

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11.6.2 Duty Cycle test plot

BR



EDR



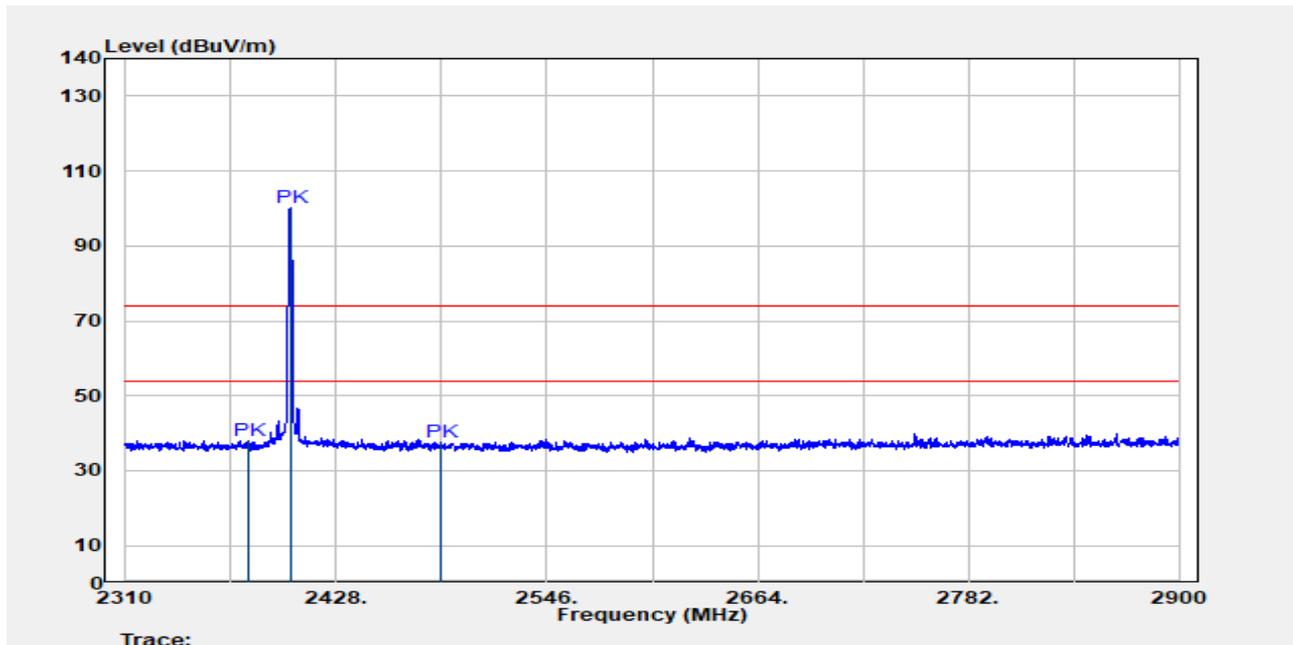
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11.6.3 Bandedge Result

Report Number	:TERF2403000506ER	Test Site	:SAC 1
Operation Mode	:BR	Test Date	:2024-03-11
Test Frequency	:2402 MHz	Temp./Humi.	:23.5°C/58%
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
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2378.46	Peak	42.48	-4.37	38.11	74.00	-35.89
2402.00	Peak	104.40	-4.37	100.03	-	-
2486.27	Peak	42.28	-4.55	37.74	74.00	-36.26

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)
--------------	------------------------	-------------------------------	------------------------------	------------------------------	---------------------------------	----------------

2378.460	Average	38.11	-25.04	13.07	54.00	-40.93
2402.000	Average	100.03	-25.04	74.99	-	-
2486.270	Average	37.74	-25.04	12.70	54.00	-41.30

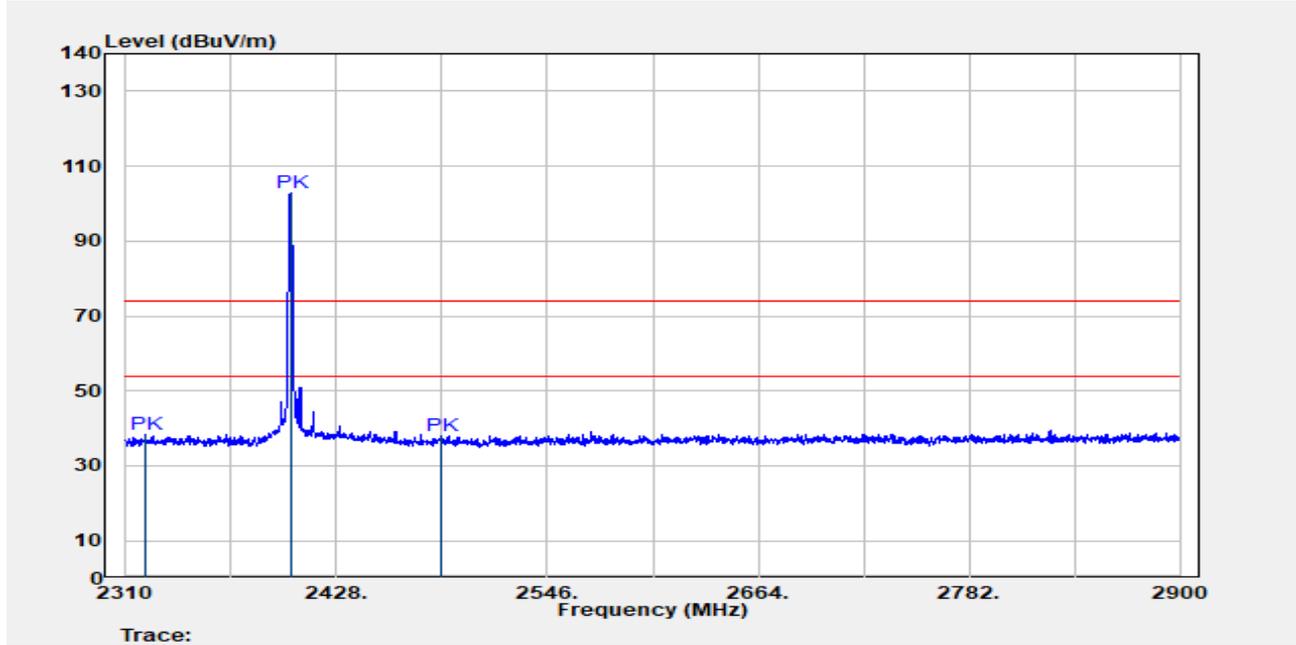
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2321.21	Peak	42.81	-4.39	38.42	74.00	-35.58
2402.00	Peak	107.31	-4.56	102.75	-	-
2486.86	Peak	42.62	-4.58	38.04	74.00	-35.96

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2321.210	Average	38.42	-25.04	13.38	54.00	-40.62
2402.000	Average	102.75	-25.04	77.71	-	-
2486.860	Average	38.04	-25.04	13.00	54.00	-41.00

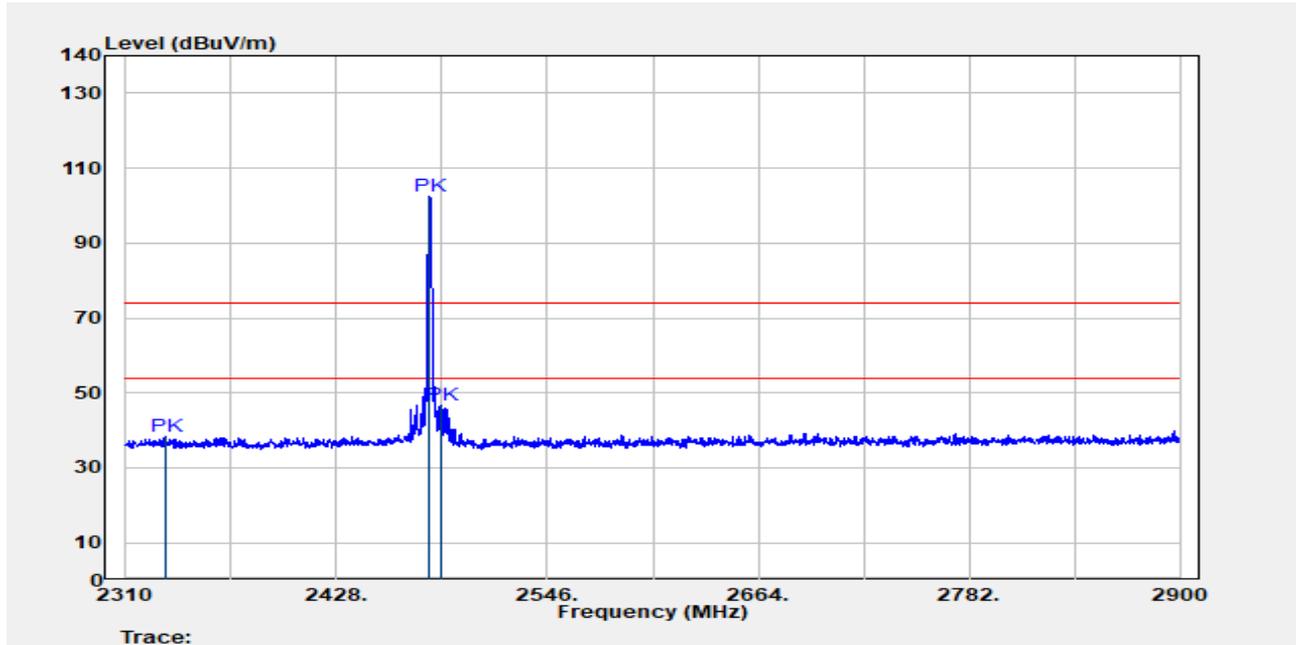
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2332.03	Peak	42.70	-4.43	38.27	74.00	-35.73
2480.00	Peak	106.96	-4.66	102.30	-	-
2486.08	Peak	51.14	-4.59	46.55	74.00	-27.45

Freq. MHz	Detector Mode	Peak Actual FS (dBUV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
2332.030	Average	38.27	-25.04	13.23	54.00	-40.77
2480.000	Average	102.30	-25.04	77.26	-	-
2486.080	Average	46.55	-25.04	21.51	54.00	-32.49

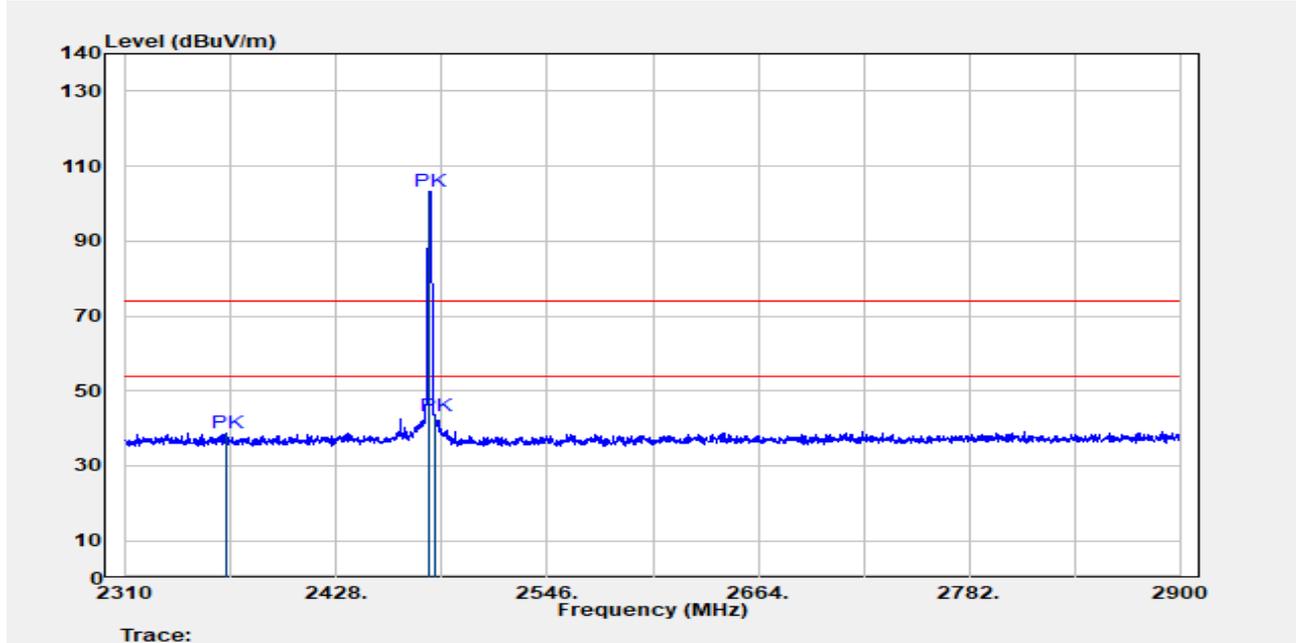
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2365.87	Peak	43.29	-4.47	38.81	74.00	-35.19
2480.00	Peak	108.02	-4.66	103.36	-	-
2483.52	Peak	47.69	-4.62	43.07	74.00	-30.93

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2365.870	Average	38.81	-25.04	13.77	54.00	-40.23
2480.000	Average	103.36	-25.04	78.32	-	-
2483.520	Average	43.07	-25.04	18.03	54.00	-35.97

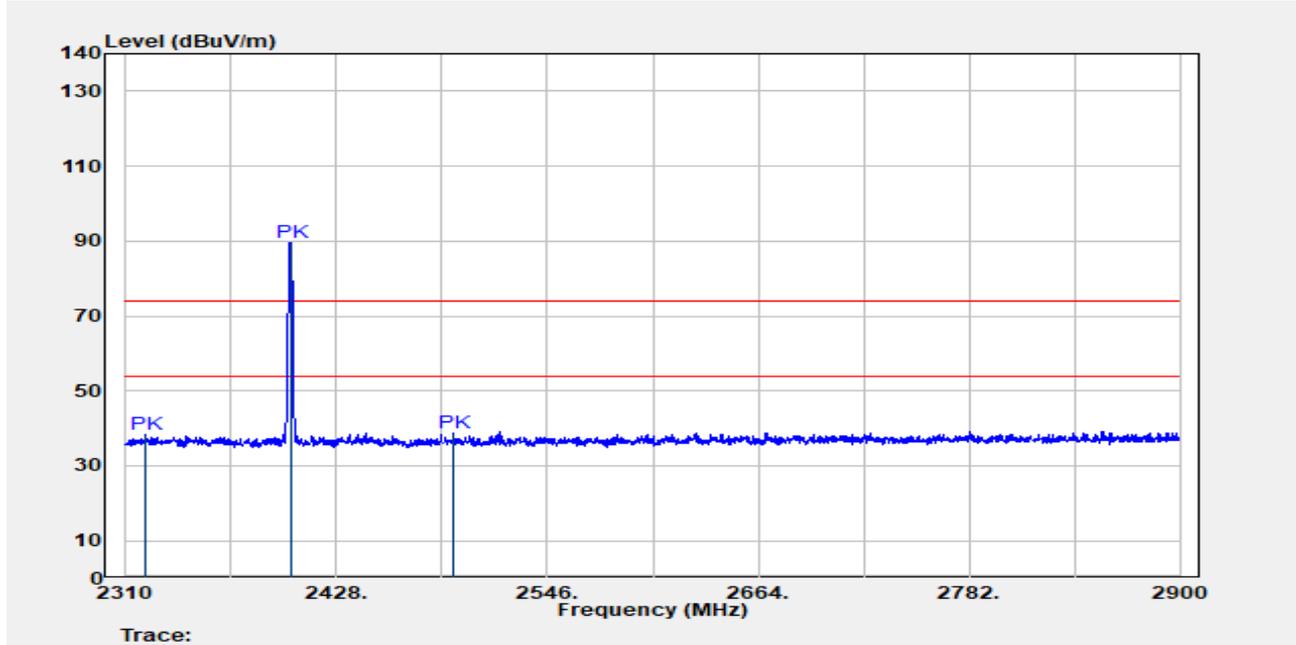
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2321.02	Peak	42.69	-4.39	38.29	74.00	-35.71
2402.00	Peak	94.01	-4.56	89.46	-	-
2493.55	Peak	43.23	-4.57	38.66	74.00	-35.34

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2321.020	Average	38.29	-24.73	13.56	54.00	-40.44
2402.000	Average	89.46	-24.73	64.73	-	-
2493.550	Average	38.66	-24.73	13.93	54.00	-40.07

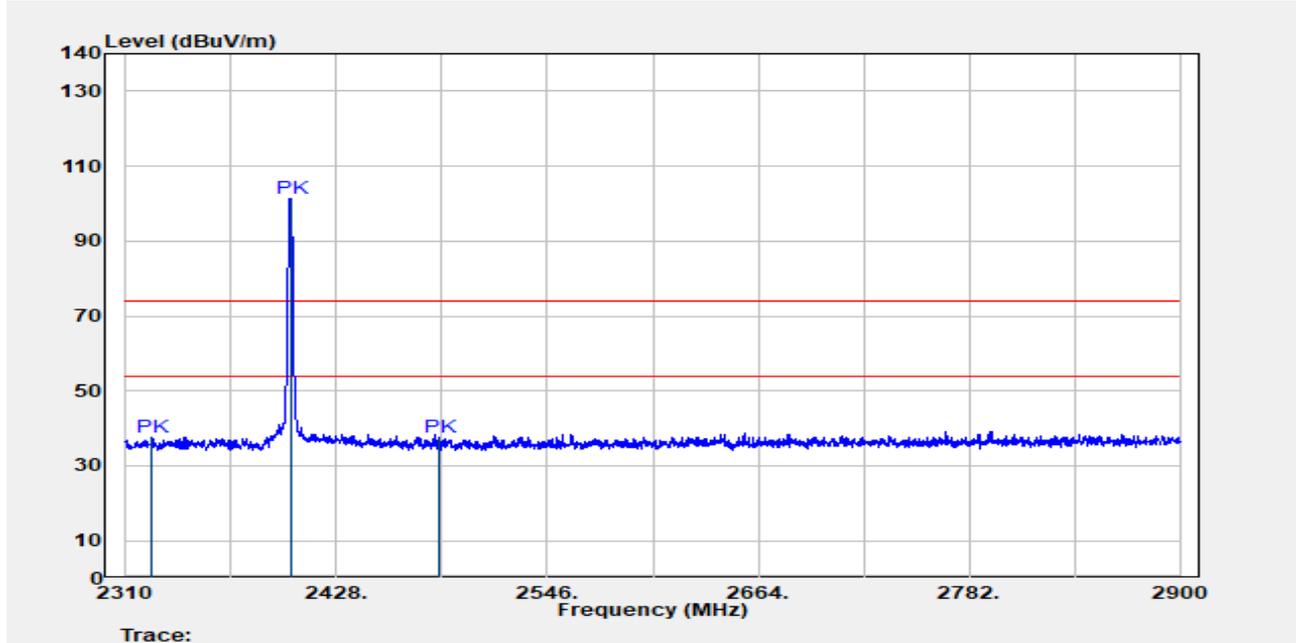
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2324.76	Peak	42.02	-4.39	37.63	74.00	-36.37
2402.00	Peak	106.01	-4.56	101.45	-	-
2484.90	Peak	42.27	-4.60	37.67	74.00	-36.33

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2324.760	Average	37.63	-24.73	12.90	54.00	-41.10
2402.000	Average	101.45	-24.73	76.72	-	-
2484.900	Average	37.67	-24.73	12.94	54.00	-41.06

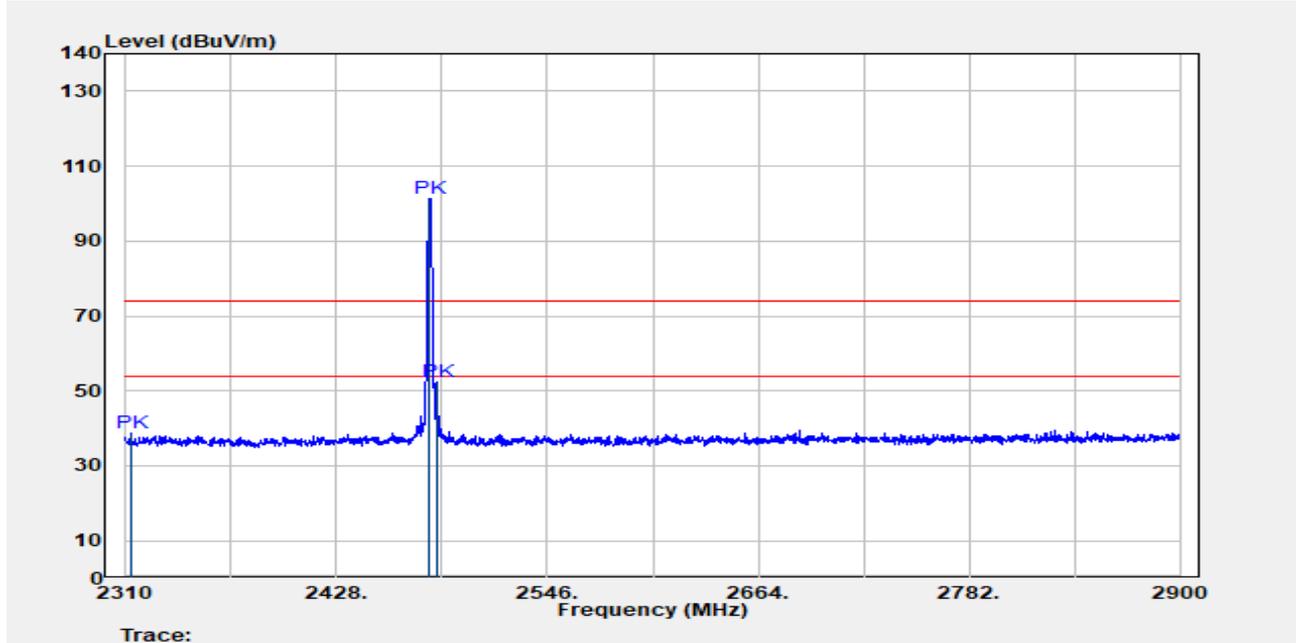
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2312.56	Peak	42.96	-4.39	38.57	74.00	-35.43
2480.00	Peak	105.90	-4.66	101.24	-	-
2483.72	Peak	57.08	-4.61	52.47	74.00	-21.53

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2312.560	Average	38.57	-24.73	13.84	54.00	-40.16
2480.000	Average	101.24	-24.73	76.51	-	-
2483.720	Average	52.47	-24.73	27.74	54.00	-26.26

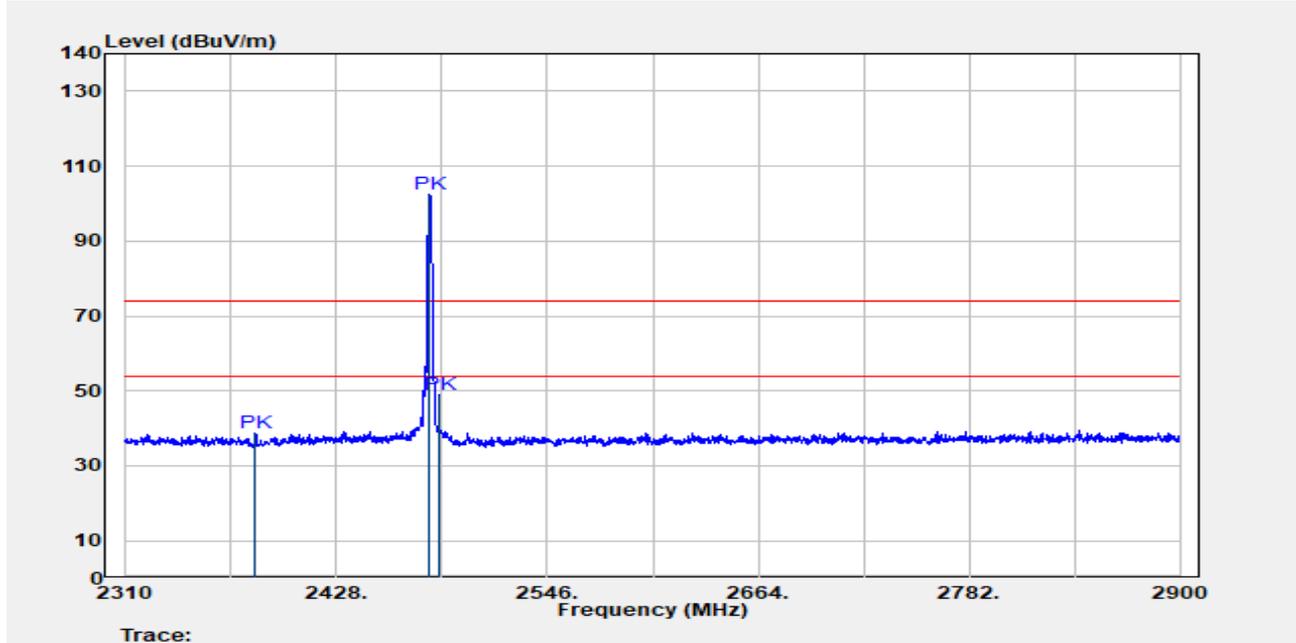
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2382.59	Peak	43.35	-4.77	38.58	74.00	-35.42
2480.00	Peak	107.07	-4.66	102.41	-	-
2485.29	Peak	53.58	-4.60	48.98	74.00	-25.02

Freq. MHz	Detector Mode	Peak Actual FS (d μ V/m)	Duty Cycle Factor (dB)	Average Value (d μ V/m)	Average Limit@3m (d μ V/m)	Margin (dB)
2382.590	Average	38.58	-24.73	13.85	54.00	-40.15
2480.000	Average	102.41	-24.73	77.68	-	-
2485.290	Average	48.98	-24.73	24.25	54.00	-29.75

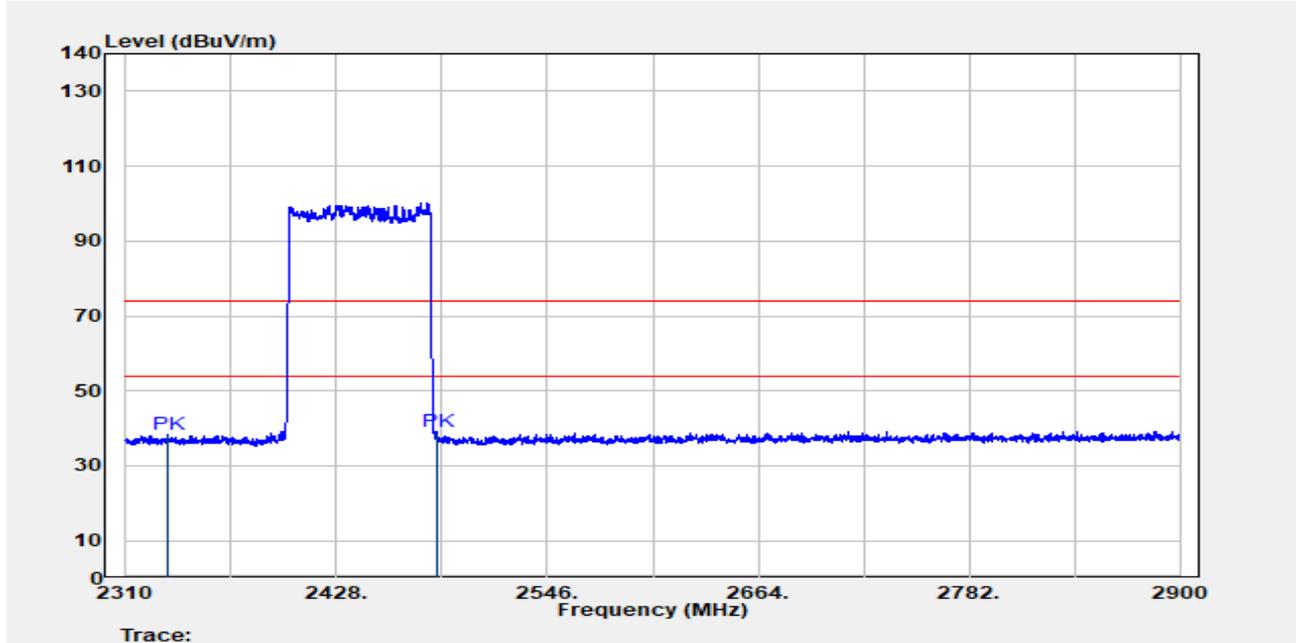
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Report Number :TERF2403000506ER
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2333.41	Peak	42.80	-4.45	38.35	74.00	-35.65
2483.91	Peak	43.62	-4.61	39.01	74.00	-34.99

Freq. MHz	Detector Mode	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)
2333.410	Average	38.35	-25.04	13.31	54.00	-40.69
2483.910	Average	39.01	-25.04	13.97	54.00	-40.03

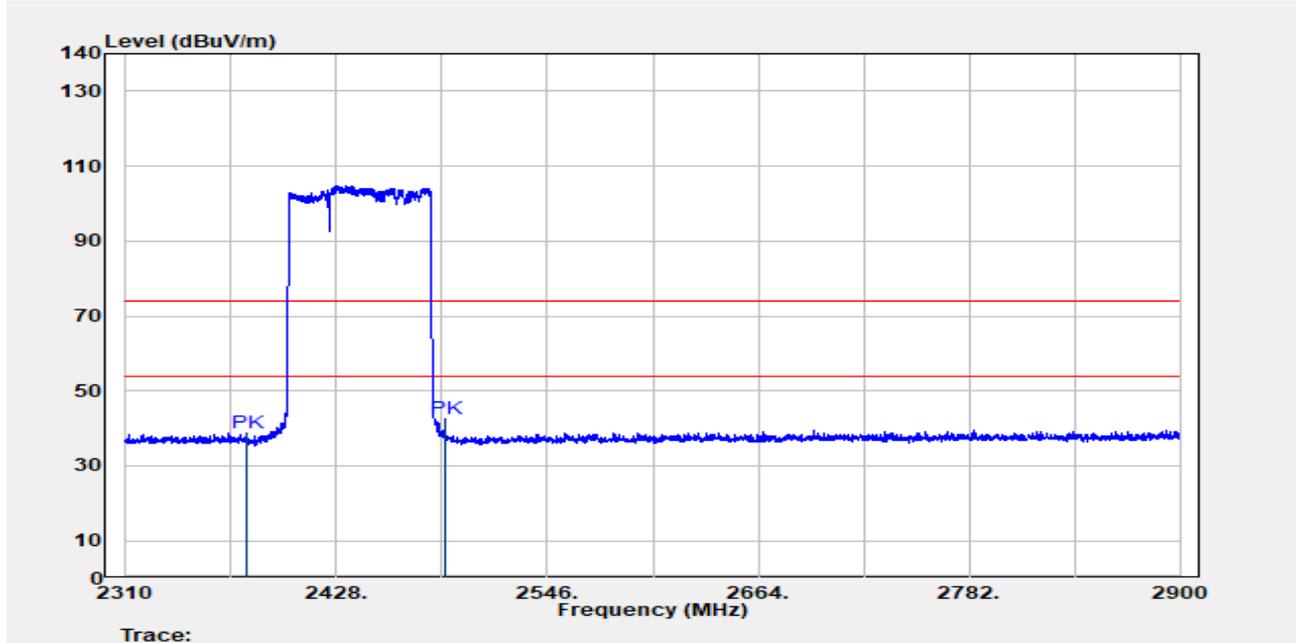
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Report Number :TERF2403000506ER
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2377.87	Peak	43.50	-4.70	38.79	74.00	-35.21
2488.63	Peak	47.08	-4.56	42.52	74.00	-31.48

Freq. MHz	Detector Mode AV	Peak Actual FS (d μ V/m)	Duty Cycle Factor (dB)	Average Value (d μ V/m)	Average Limit@3m (d μ V/m)	Margin (dB)
2377.870	Average	38.79	-25.04	13.75	54.00	-40.25
2488.630	Average	42.52	-25.04	17.48	54.00	-36.52

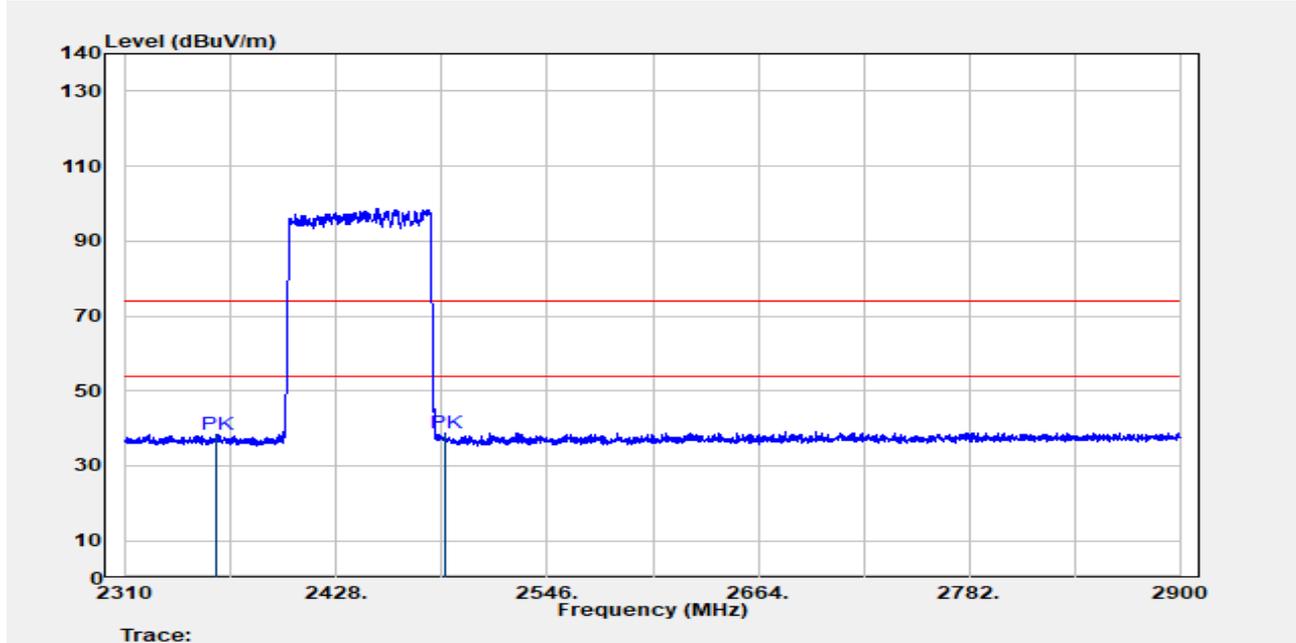
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2360.36	Peak	42.82	-4.48	38.34	74.00	-35.66
2488.83	Peak	43.10	-4.56	38.55	74.00	-35.45

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2360.360	Average	38.34	-24.73	13.61	54.00	-40.39
2488.830	Average	38.55	-24.73	13.82	54.00	-40.18

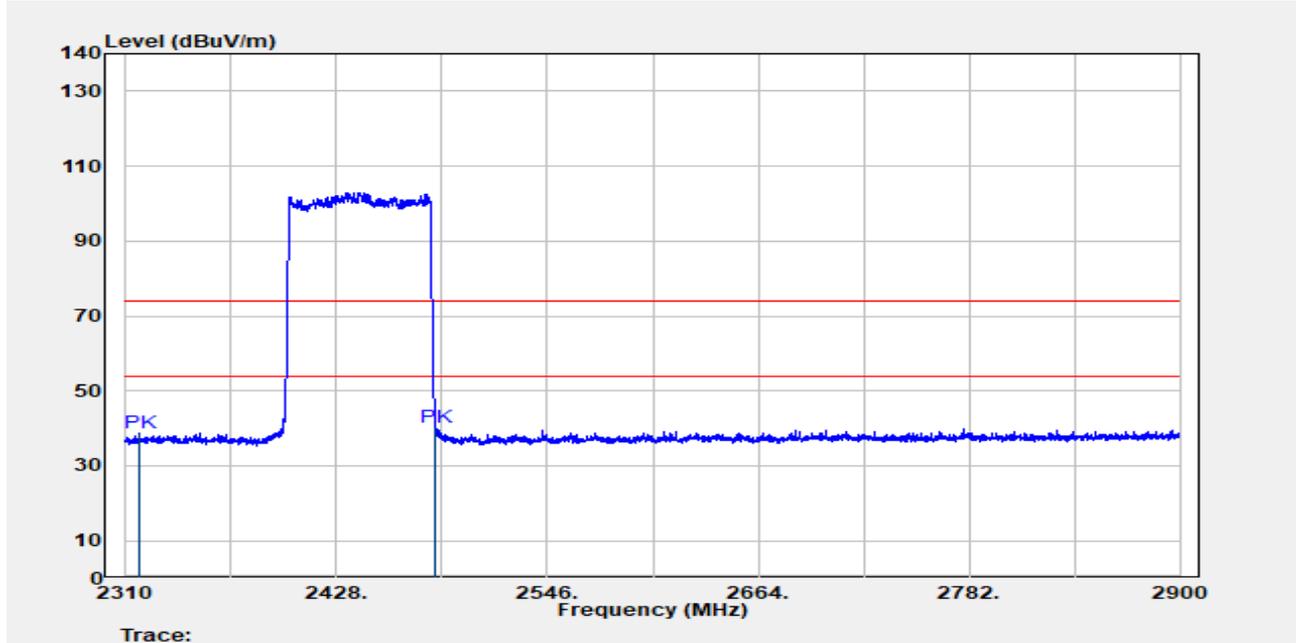
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2317.67	Peak	43.21	-4.39	38.81	74.00	-35.19
2483.52	Peak	44.80	-4.62	40.18	74.00	-33.82

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
2317.670	Average	38.81	-24.73	14.08	54.00	-39.92
2483.520	Average	40.18	-24.73	15.45	54.00	-38.55

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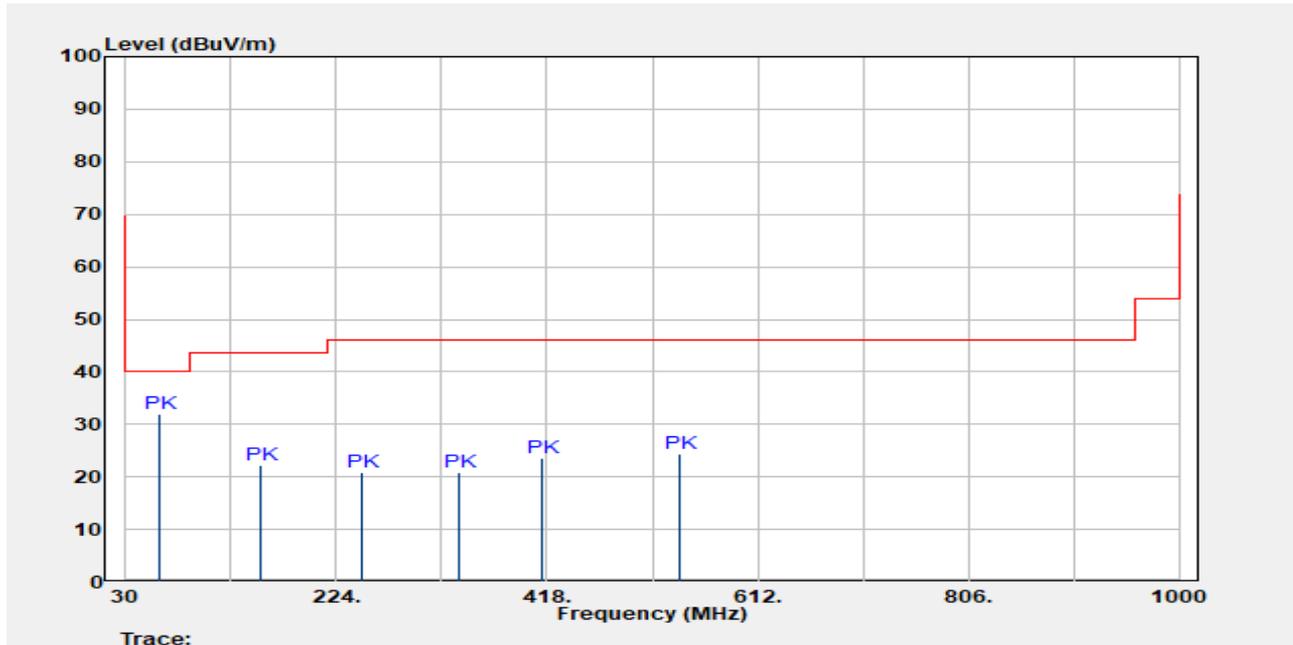
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11.6.4 Radiated Spurious Emission

Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.37	Peak	48.47	-16.59	31.88	40.00	-8.12
154.52	Peak	33.90	-11.61	22.29	43.50	-21.21
246.71	Peak	29.74	-8.75	20.99	46.00	-25.01
336.62	Peak	27.89	-7.06	20.84	46.00	-25.16
412.95	Peak	28.58	-5.01	23.58	46.00	-22.42
540.07	Peak	27.80	-3.29	24.51	46.00	-21.49

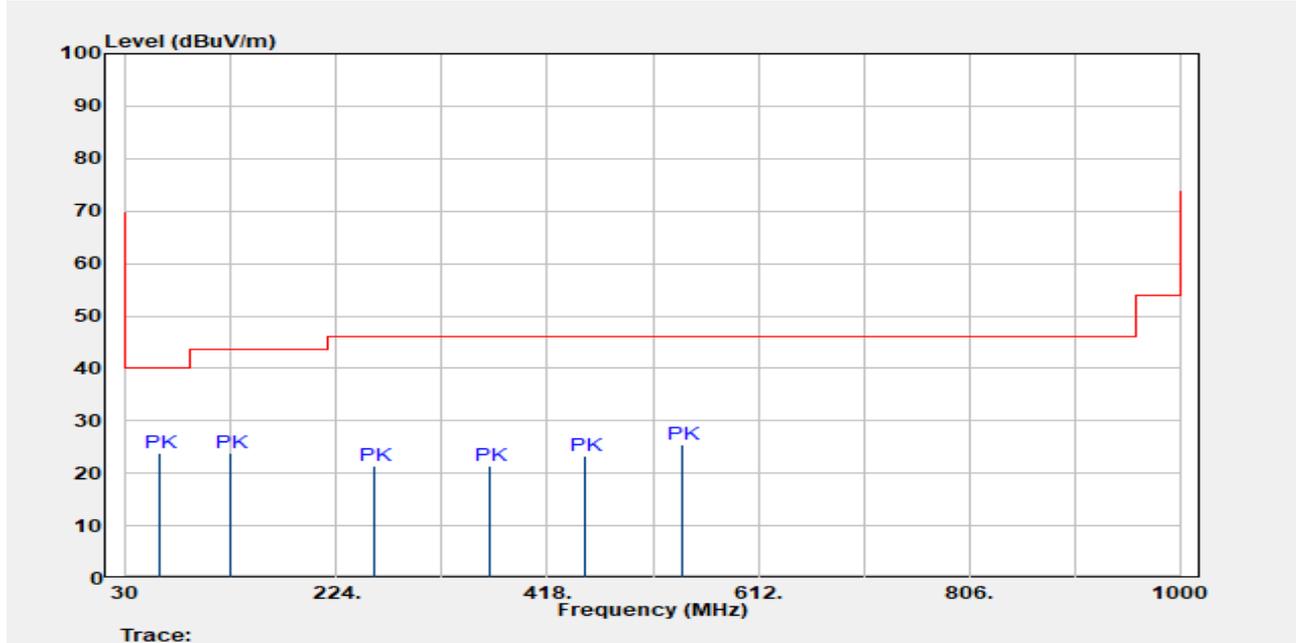
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
61.04	Peak	40.32	-16.59	23.72	40.00	-16.28
127.00	Peak	34.10	-10.19	23.91	43.50	-19.59
257.95	Peak	28.58	-7.19	21.39	46.00	-24.61
364.65	Peak	27.83	-6.30	21.53	46.00	-24.47
451.95	Peak	27.93	-4.75	23.18	46.00	-22.82
541.19	Peak	28.73	-3.20	25.53	46.00	-20.47

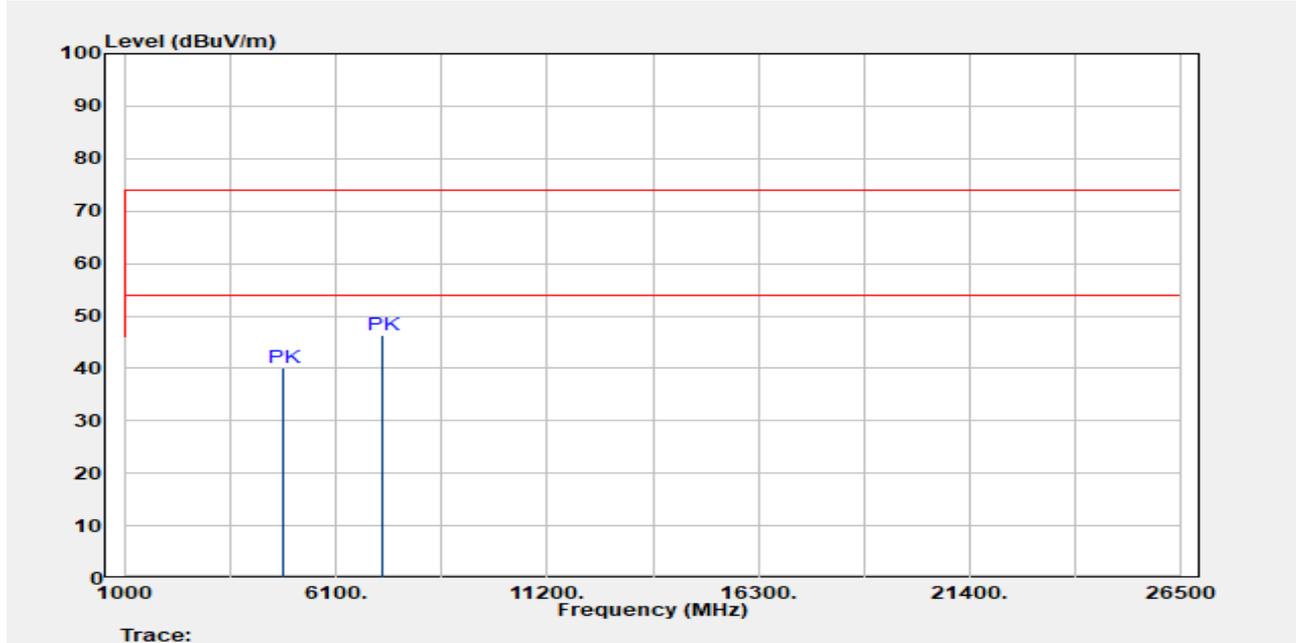
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	39.65	0.37	40.02	74.00	-33.98
7206.00	Peak	39.27	6.94	46.21	74.00	-27.79

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	40.02	-25.04	14.98	54.00	-39.02
7206.000	Average	46.21	-25.04	21.17	54.00	-32.83

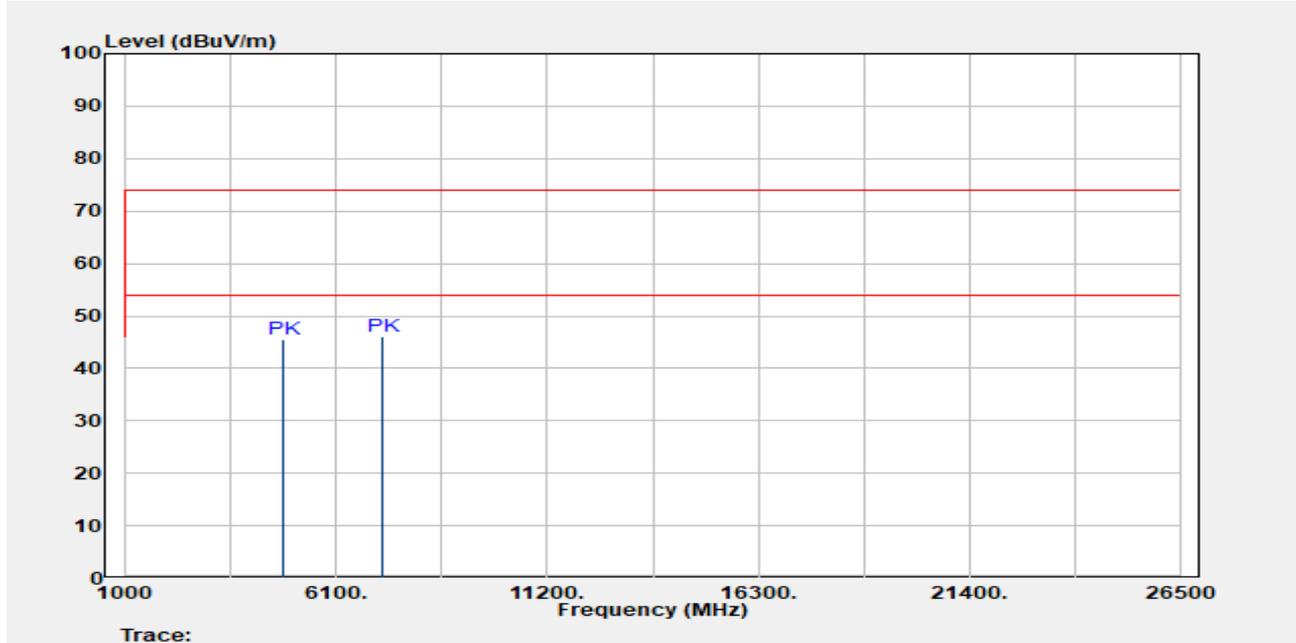
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Peak	45.14	0.37	45.50	74.00	-28.50
7206.00	Peak	39.04	6.94	45.99	74.00	-28.01

Freq. MHz	Detector Mode	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)
4804.000	Average	45.50	-25.04	20.46	54.00	-33.54
7206.000	Average	45.99	-25.04	20.95	54.00	-33.05

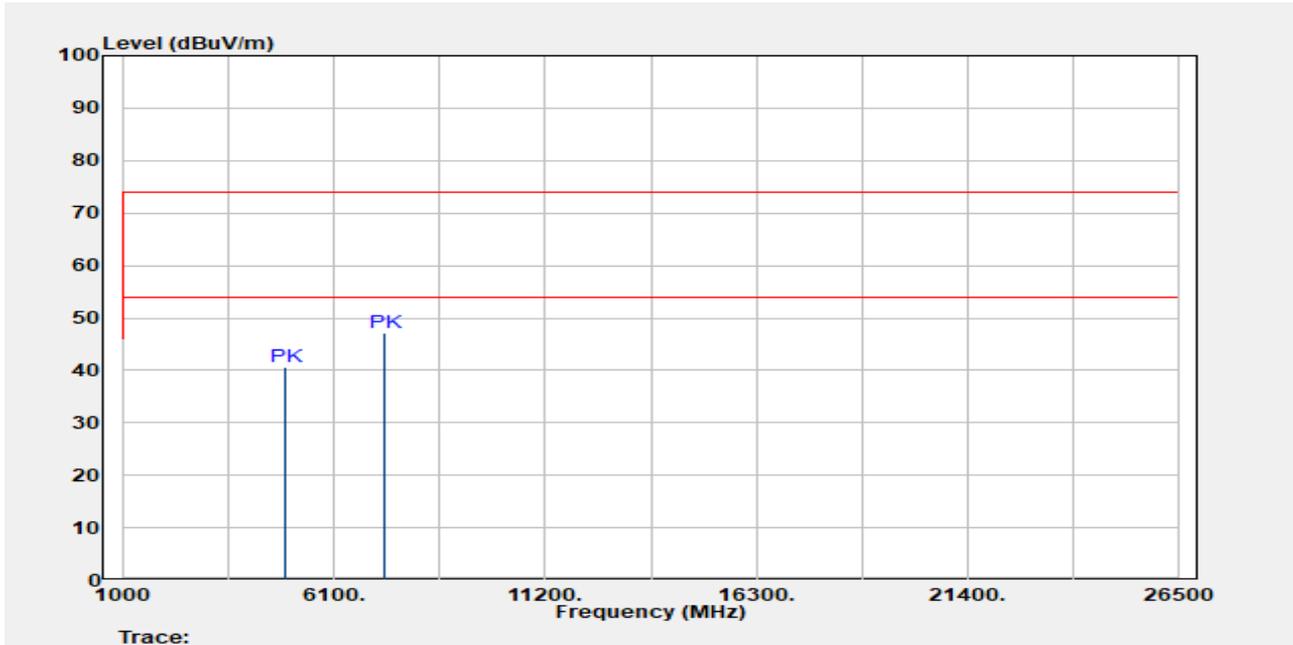
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	40.00	0.71	40.71	74.00	-33.29
7323.00	Peak	40.00	7.08	47.07	74.00	-26.93
Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	40.71	-25.04	15.67	54.00	-38.33
7323.000	Average	47.07	-25.04	22.03	54.00	-31.97

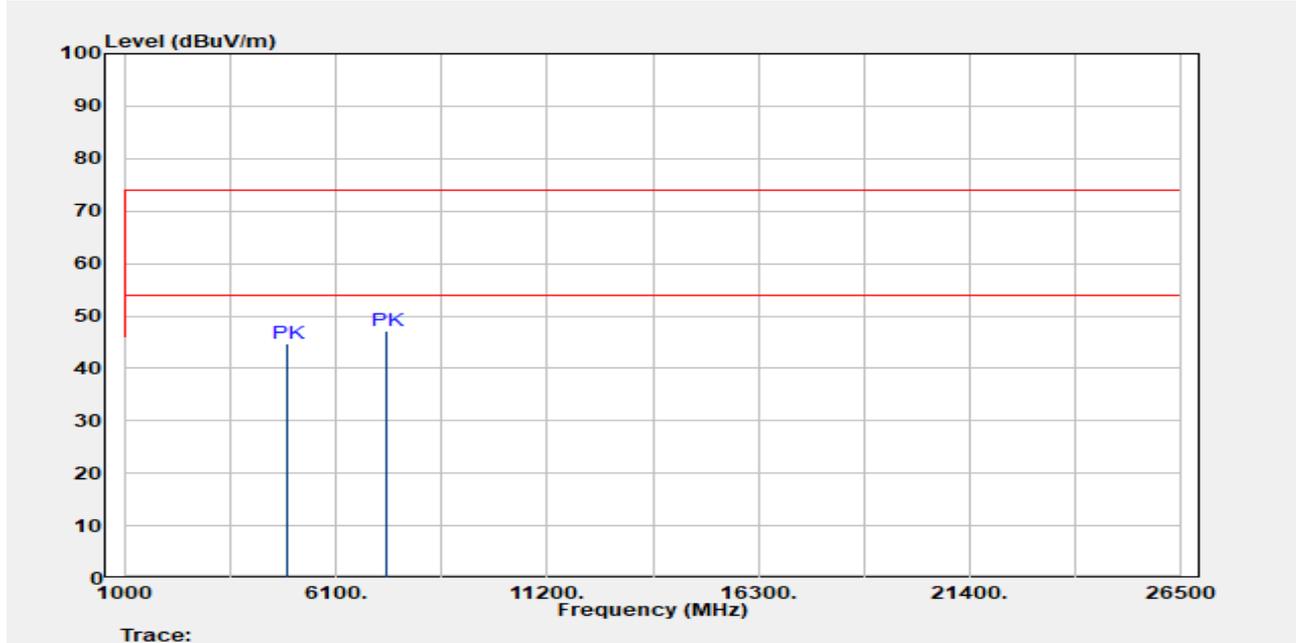
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	44.09	0.71	44.80	74.00	-29.20
7323.00	Peak	40.19	7.08	47.27	74.00	-26.73

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	44.80	-25.04	19.76	54.00	-34.24
7323.000	Average	47.27	-25.04	22.23	54.00	-31.77

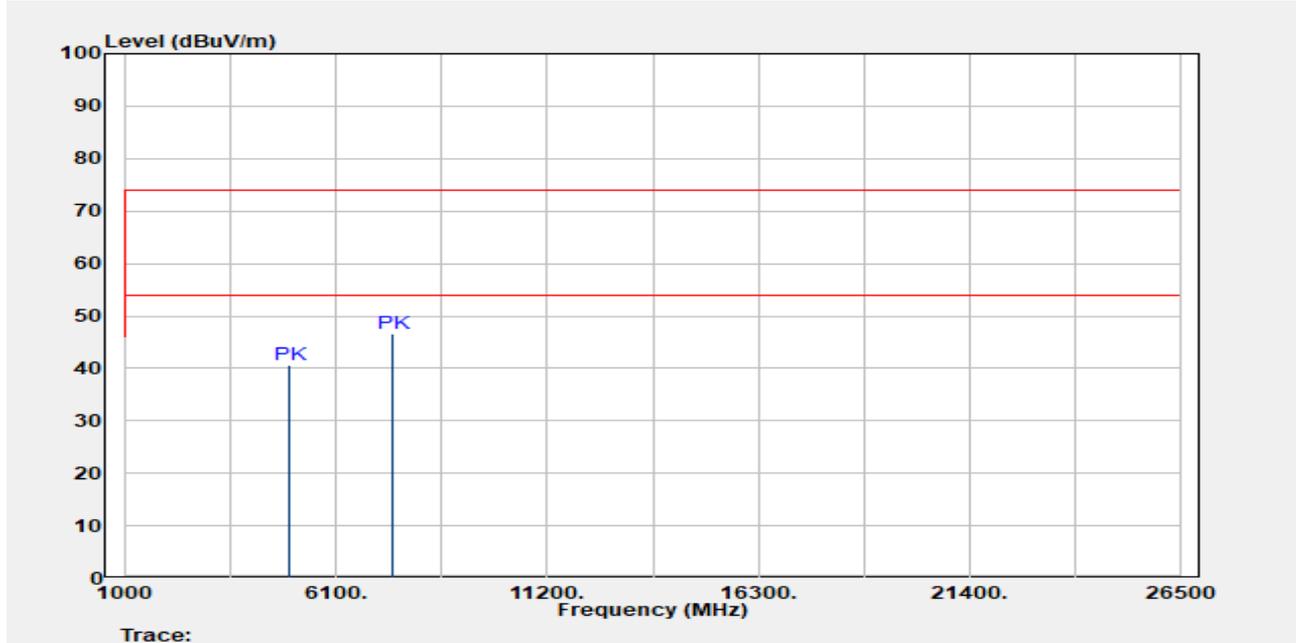
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Peak	39.28	1.26	40.54	74.00	-33.46
7440.00	Peak	39.88	6.76	46.64	74.00	-27.36
Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)

4960.000	Average	40.54	-25.04	15.50	54.00	-38.50
7440.000	Average	46.64	-25.04	21.60	54.00	-32.40

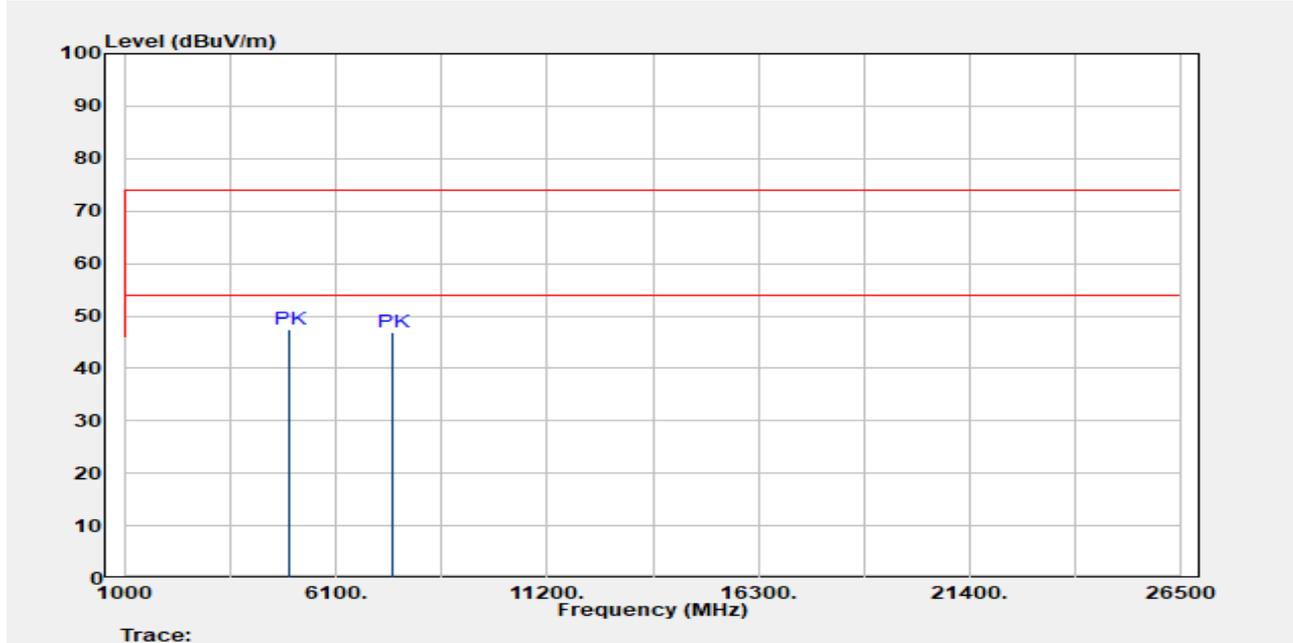
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Report Number :TERF2403000506ER
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Peak	46.24	1.26	47.50	74.00	-26.50
7440.00	Peak	40.26	6.76	47.02	74.00	-26.98

Freq. MHz	Detector Mode AV	Peak Actual FS (dBUV/m)	Duty Cycle Factor (dB)	Average Value (dBUV/m)	Average Limit@3m (dBUV/m)	Margin (dB)
4960.000	Average	47.50	-25.04	22.46	54.00	-31.54
7440.000	Average	47.02	-25.04	21.98	54.00	-32.02

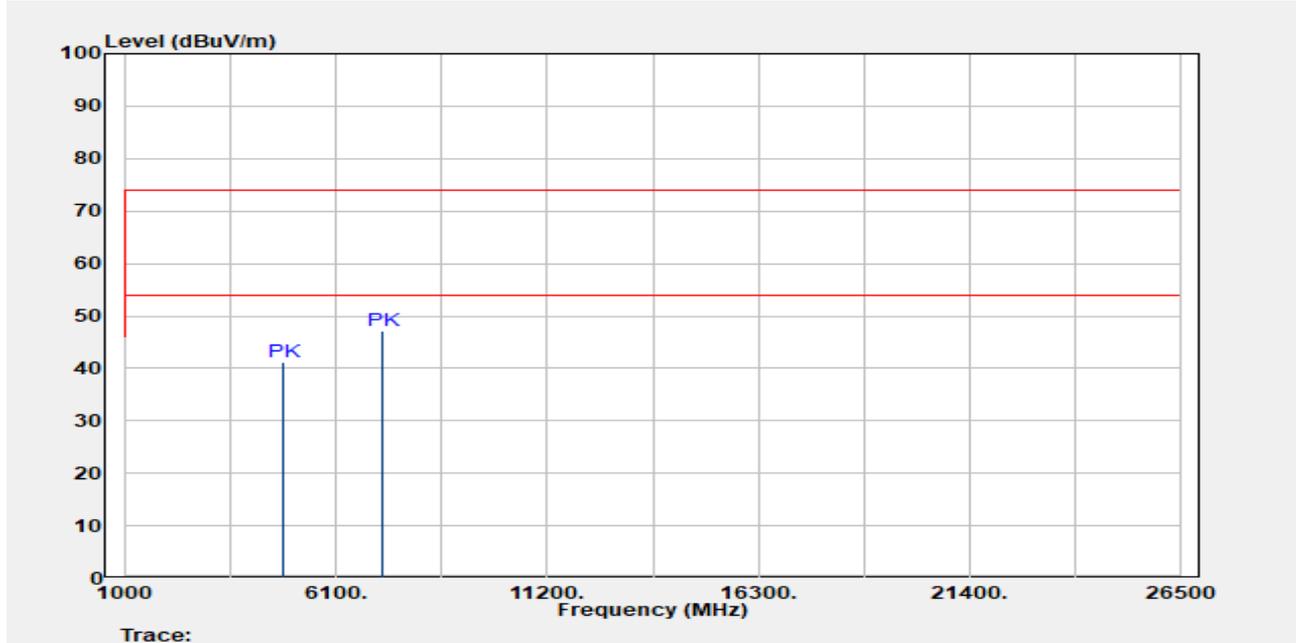
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	40.84	0.37	41.21	74.00	-32.79
7206.00	Peak	40.10	6.94	47.04	74.00	-26.96

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	41.21	-24.73	16.48	54.00	-37.52
7206.000	Average	47.04	-24.73	22.31	54.00	-31.69

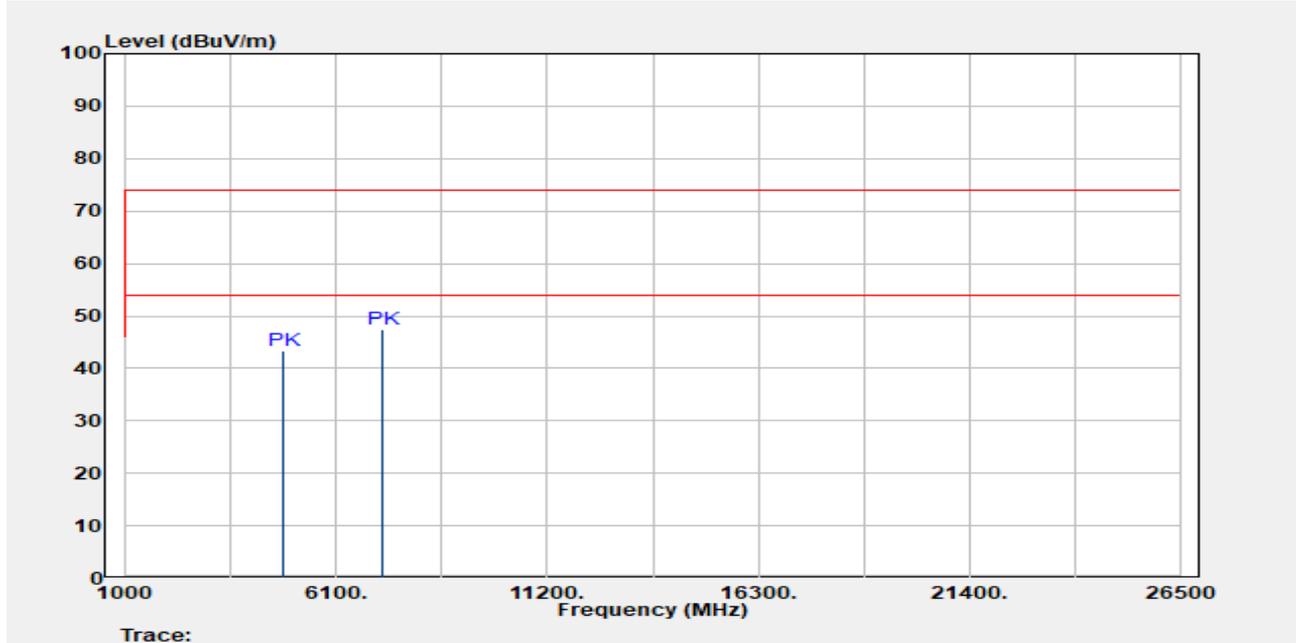
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	43.04	0.37	43.41	74.00	-30.59
7206.00	Peak	40.35	6.94	47.29	74.00	-26.71

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4804.000	Average	43.41	-24.73	18.68	54.00	-35.32
7206.000	Average	47.29	-24.73	22.56	54.00	-31.44

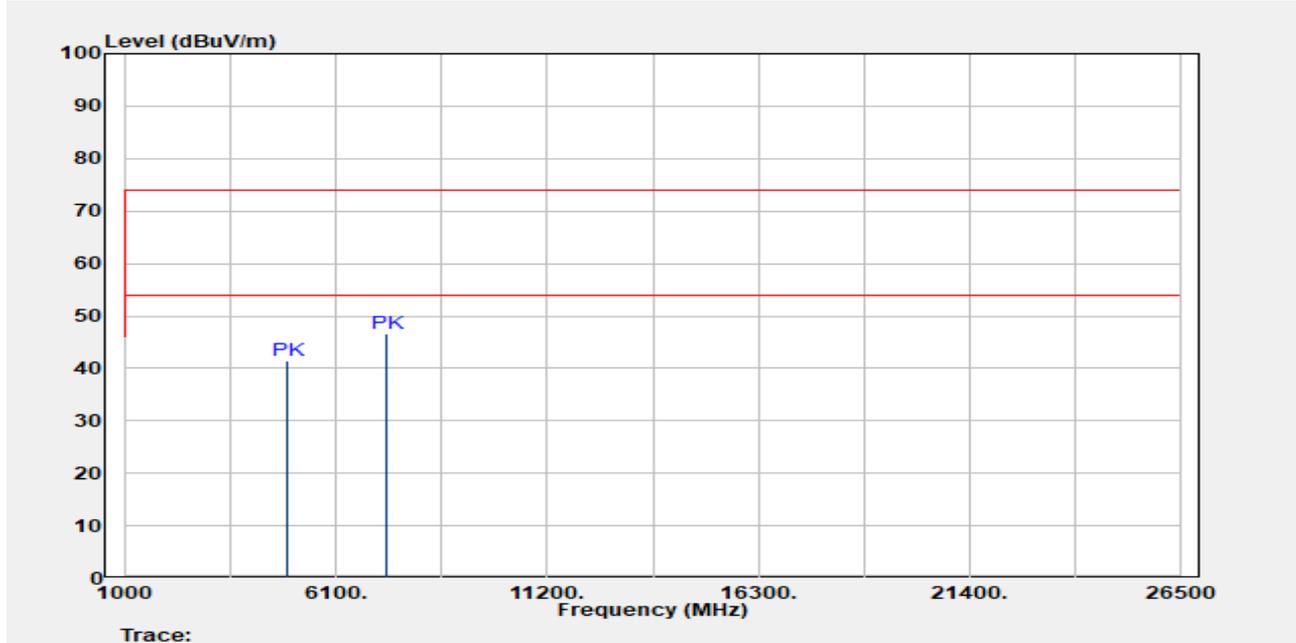
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	40.66	0.71	41.37	74.00	-32.63
7323.00	Peak	39.52	7.08	46.60	74.00	-27.40

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	41.37	-24.73	16.64	54.00	-37.36
7323.000	Average	46.60	-24.73	21.87	54.00	-32.13

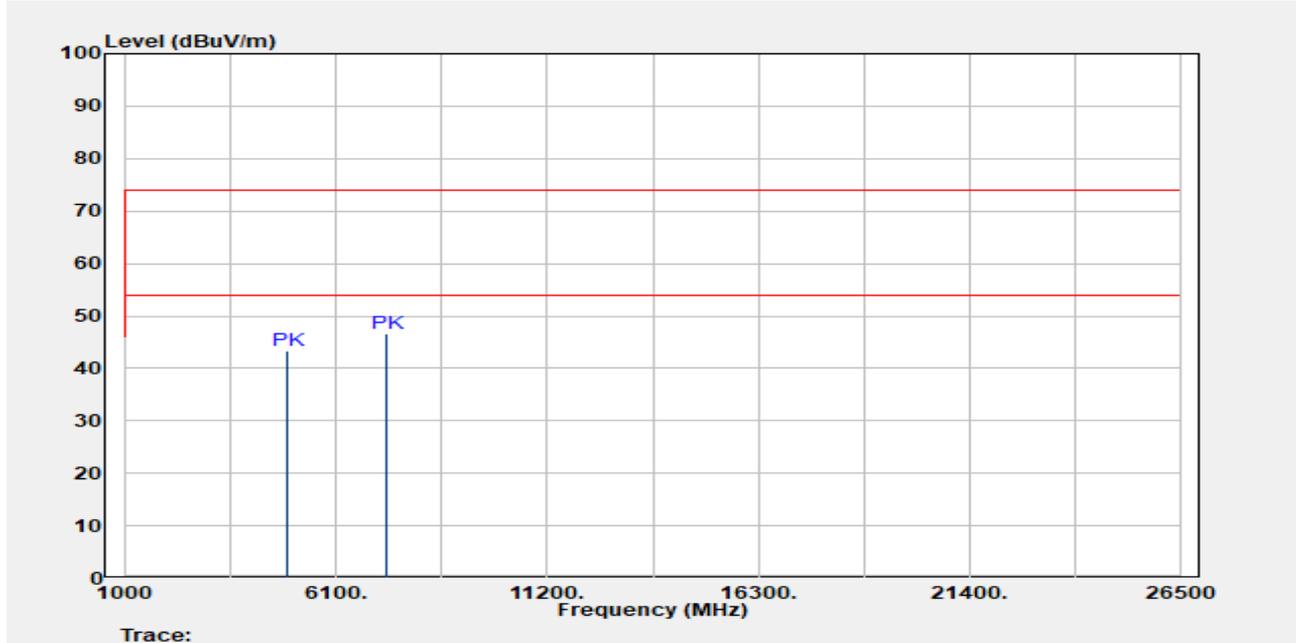
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	42.55	0.71	43.26	74.00	-30.74
7323.00	Peak	39.50	7.08	46.58	74.00	-27.42

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4882.000	Average	43.26	-24.73	18.53	54.00	-35.47
7323.000	Average	46.58	-24.73	21.85	54.00	-32.15

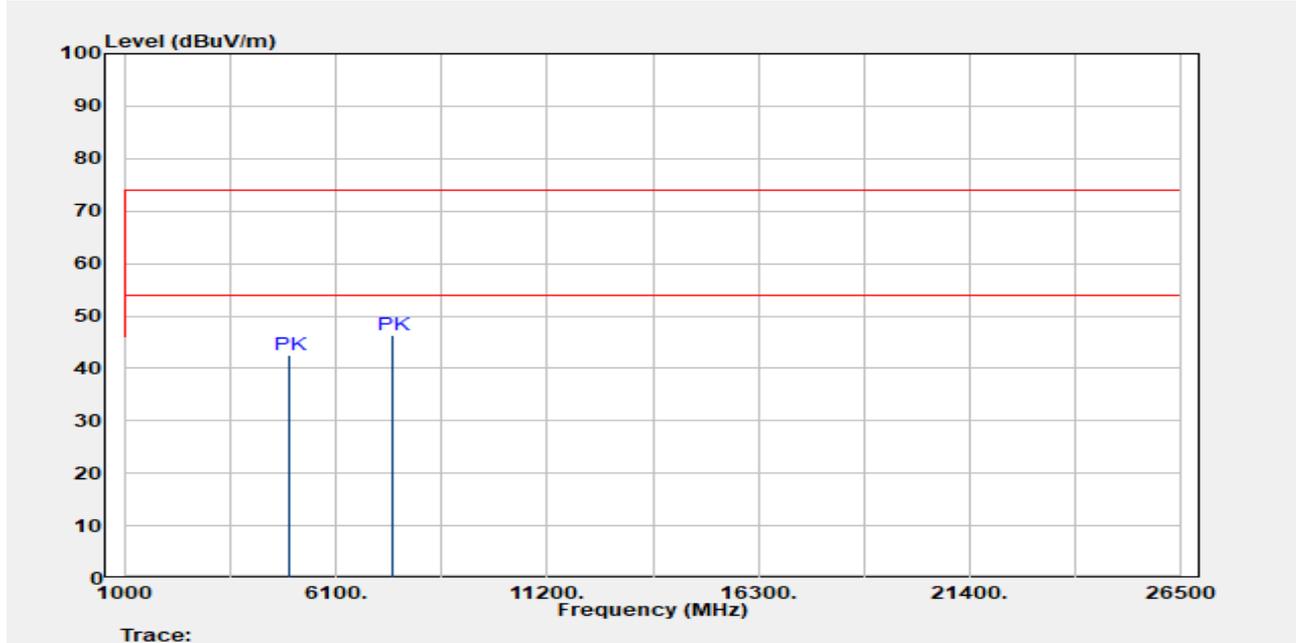
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Peak	41.29	1.26	42.55	74.00	-31.45
7440.00	Peak	39.56	6.76	46.31	74.00	-27.69

Freq. MHz	Detector Mode	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	42.55	-24.73	17.82	54.00	-36.18
7440.000	Average	46.31	-24.73	21.58	54.00	-32.42

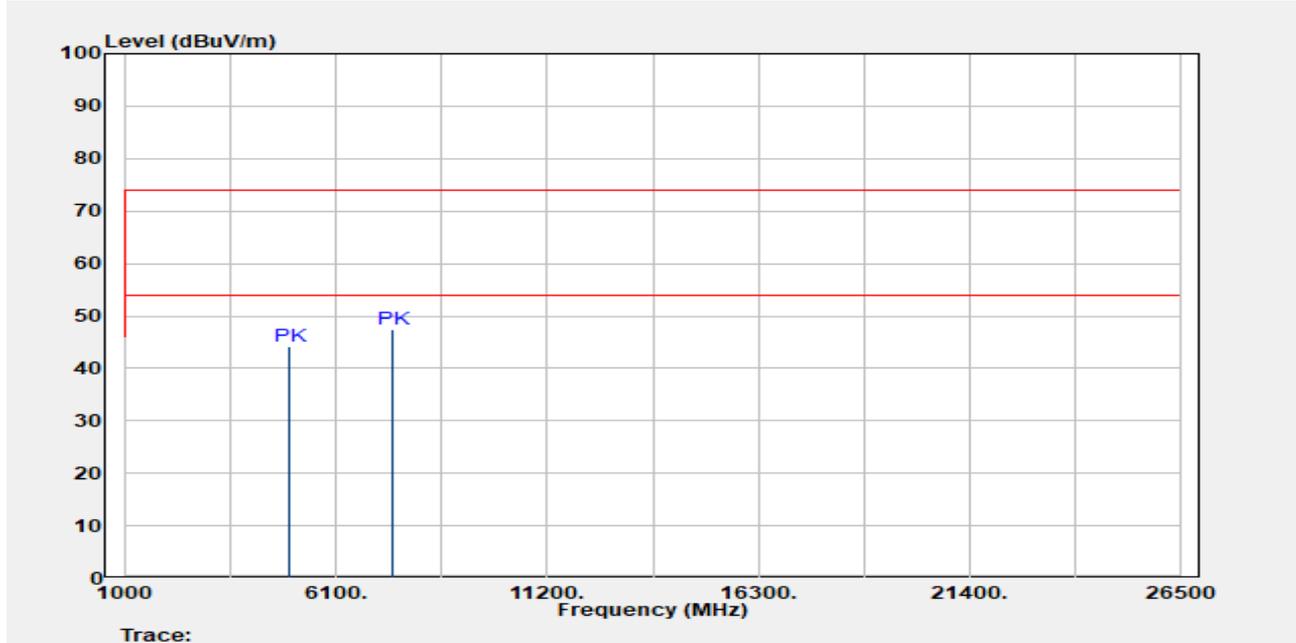
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Report Number :TERF2403000506ER
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 1
 Test Date :2024-03-11
 Temp./Humi. :23.5°C/58%
 Antenna Pol. :Horizontal
 Engineer :Cooper Hsu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Peak	42.89	1.26	44.15	74.00	-29.85
7440.00	Peak	40.57	6.76	47.33	74.00	-26.67

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
4960.000	Average	44.15	-24.73	19.42	54.00	-34.58
7440.000	Average	47.33	-24.73	22.60	54.00	-31.40

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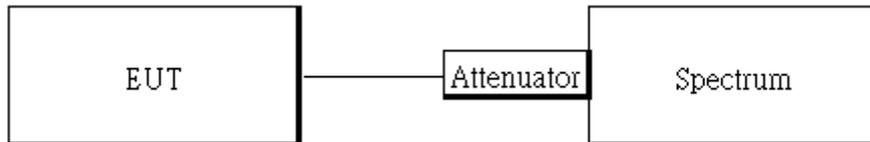
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12 FREQUENCY SEPARATION

12.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $\frac{2}{3} \times 20\text{dB}$ 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, $\text{VBW} \geq \text{RBW}$.
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 $\frac{2}{3}$ times 20dB bandwidth	PASS

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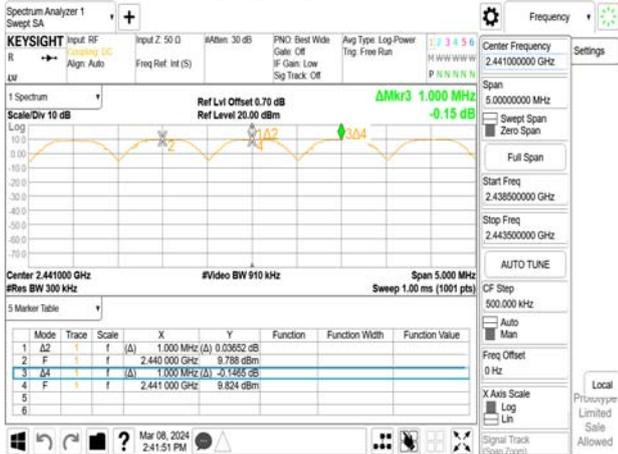
GFSK_1M_DH5_CH0CH1CH2



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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8DPSK_3M_DH5_CH0CH1CH2



8DPSK_3M_DH5_CH38CH39CH40



8DPSK_3M_DH5_CH76CH77CH78



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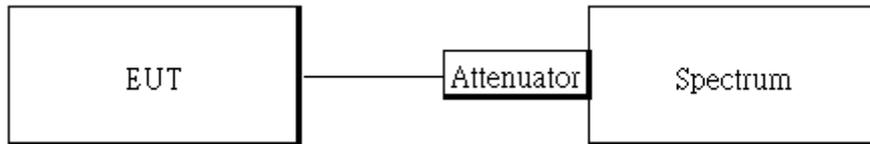
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13 NUMBER OF HOPPING FREQUENCY

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 ≥ 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

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

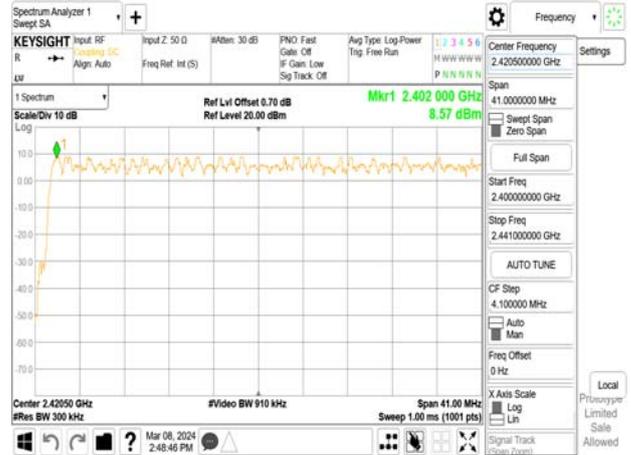
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GFSK_1M_DH5_2400-2441



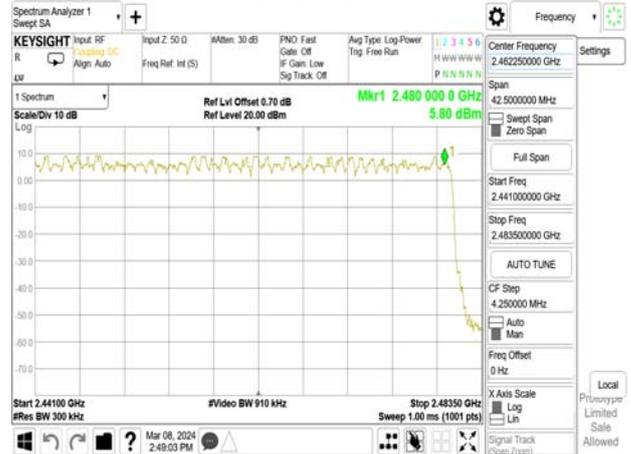
8DPSK_3M_DH5_2400-2441



GFSK_1M_DH5_2441-2480



8DPSK_3M_DH5_2441-2480



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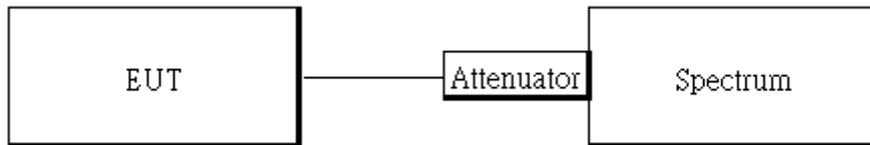
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14 TIME OF OCCUPANCY (DWELL TIME)

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

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	DH1	120.00	400
	DH3	260.80	400
	DH5	307.20	400

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
Mid	2DH1	124.80	400
	2DH3	262.40	400
	2DH5	308.80	400

8-DPSK (3Mbps)

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

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.375 *	(1600/2/79)	*	31.6	=	120.00 (ms)
	DH3 time slot	=	1.630 *	(1600/4/79)	*	31.6	=	260.80 (ms)
	DH5 time slot	=	2.880 *	(1600/6/79)	*	31.6	=	307.20 (ms)

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

CH Mid	2DH1 time slot	=	0.390 *	(1600/2/79)	*	31.6	=	124.80 (ms)
	2DH3 time slot	=	1.640 *	(1600/4/79)	*	31.6	=	262.40 (ms)
	2DH5 time slot	=	2.895 *	(1600/6/79)	*	31.6	=	308.80 (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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Dwell Time_GFSK_1M_DH1_2441MHz



Dwell Time_π/4DQPSK_2M_DH1_2441MHz



Dwell Time_GFSK_1M_DH3_2441MHz



Dwell Time_π/4DQPSK_2M_DH3_2441MHz



Dwell Time_GFSK_1M_DH5_2441MHz



Dwell Time_π/4DQPSK_2M_DH5_2441MHz



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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 Internal Photos for details.

~ End of Report ~

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