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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: ASUSTEK COMPUTER INC.

1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.

1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS AI2302

Report Number: TERF2305001079ER

FCC ID MSQAI2302

Date of EUT Received: April 24, 2023

Date of Test: May 02, 2023 ~ May 26, 2023

Issue Date: July 26, 2023

Approved By

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		
TERF2305001079ER	00	Original	July 17, 2023	Violetta Tang			
TERF2305001079ER	01	Updated section 1.2 & 8.4	July 26, 2023	Violetta Tang	*		

Note:

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

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GENERAL INFORMATION

1.1 **Product Description**

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_AI2302
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	R4AIB7N004712UM
Power Supply:	3.89 Vdc from Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC Adapter
Test Software (Name/Version)	QRCT v4.0.210.0

1.2 **RF Specification**

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	18.89dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	≦ 0.4s

1.3 **Antenna Designation**

Antenna	Supplier	Antenna	Antenna	Freq.	Peak Antenna
Type		No.	Model No.	(MHz)	Gain (dBi)
PIFA	ASUS	ANT 7	Al2302	2402-2480	-0.69

Note: 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 Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 424 My Kyra Dood Noy Tainsi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	T\\/0027	TW3702
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	TW0027	
	raiper City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No 2 Kaji 1st Dd. Cujeban District	Conducted A		
	No.2, Keji 1st Rd., Guishan District,	Conducted B	TW0028	identifier
	Taoyuan City, Taiwan 333	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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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.

Test Procedure 2.3

2.3.1 **Conducted Emissions**

The EUT is a 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 a 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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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-ane choic 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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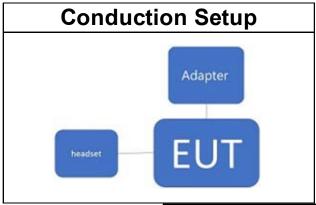
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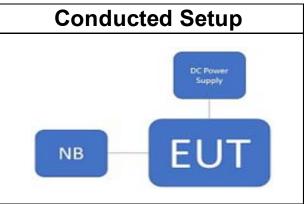


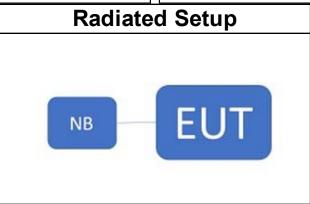
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Test Configuration







2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL.						
Adapter	PI	AD2166320	N/A	N/A	N/A		
Adapter	京泉華	NCA30UU-20012501	N/A	N/A	N/A		
earphone	1MORE	EA010B	N/A	N/A	N/A		
	Conducted Emission Test Site: Conducted 2						
EQUIPMENT TYPE	NT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DU		CAL DUE.				
Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A		

Radiated Emission Test Site: SAC 3							
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Notebook	Lenovo	T440P	PC-014TAK 14/10	N/A	N/A		

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	§15.207(a) AC Power Line Conducted Emission	
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)(1)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted & Radiated Band Edge and Spurious Emission	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

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

	79 channels are provided for Bluetooth						
ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	61	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	62	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	63	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	64	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	65	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	66	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	67	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	68	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	69	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	PACKET TYPE			
	Peak Output Pov	wer, 20dB Band Widt	h			
	0 to 78	0,39,78	DH5			
Bluetooth	0 to 78	0,39,78	2DH5			
	0 to 78	0,39,78	3DH5			
	Ва	nd Edge				
Bluetooth	0 to 78	0,78	DH5/3DH5			
	Frequen	cy Separation				
Bluetooth	0 to 78	0,1,2,38,39,40,76,77, 78	DH5 2DH5 3DH5			
Numb	er of Hopping Fre	quency, Hopping Ba	nd edge			
Bluetooth	0 to 78	0 to 78	DH5/3DH5			
	Time of Occu	ipancy(Dwell time)				
			DH1/DH3/DH5			
Bluetooth	0 to 78	39	2DH1/2DH3/2DH5			
			3DH1/3DH3/3DH5			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	PACKET TYPE			
RADIATED EMISSION TEST (BELOW 1 GHz)						
Bluetooth	0 to 78	39	3DH5			
R	ADIATED EMISSION	ON TEST (ABOVE 1 C	GHz)			
Bluetooth	0 to 78	0,39,78	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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MEASUREMENT UNCERTAINTY

Test Items	L	Jncertair	nty
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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MEASUREMENT EQUIPMENT USED

Emission from AC power line 6.1

	AC Power-Line Conducted Emission Test Site: Conduction 1								
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DU									
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				
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM- BM-3000	161207	06/22/2022	06/21/2023				
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	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	Gwinstek	SPS-3610	GEW902152	01/16/2023	01/15/2024				
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023				
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023				

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Radiated Measurement 6.3

Radiated Emission Test Site: SAC 3								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023			
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2022	09/26/2023			
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023			
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023			
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023			
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023			
Pre-Amplifier	EMC Instruments	EMC118A45SEE	980868	12/13/2022	12/12/2023			
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023			
Pre-Amplifier	НР	8447D	2944A07676	12/13/2022	12/12/2023			
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023			
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023			
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023			
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	MY4251/4PEA	12/13/2022	12/12/2023			
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 500	221104	12/13/2022	12/12/2023			
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 1000	221103	12/13/2022	12/12/2023			
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 1500	221110	12/13/2022	12/12/2023			
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 8000	221109	12/13/2022	12/12/2023			
Site Cal	SGS	SAC 3	N/A	01/01/2023	12/31/2023			
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R			

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

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CONDUCTED EMISSION TEST

7.1 Standard Applicable

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

Frequency range	Limits dB(uV)					
MHz	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				

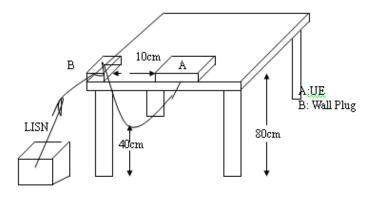
Note

- 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.
- Repeat above procedures until all frequency measured were complete.

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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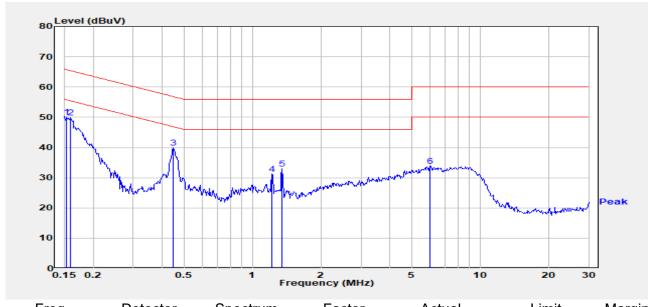
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2305001079ER Test Site :Conduction 1

Test Mode :Operation (BT) Test Date :2023-05-16

Power :120V/60Hz Temp./Humi. :25.6/62
Probe :L Engineer :Nick Lin

Note: :Adapter A299-200150U-US



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.152	Peak	39.83	10.25	50.08	65.87	-15.80
0.158	Peak	39.64	10.25	49.89	65.55	-15.66
0.450	Peak	29.55	10.25	39.80	56.88	-17.08
1.220	Peak	20.60	10.57	31.17	56.00	-24.83
1.349	Peak	22.25	10.67	32.92	56.00	-23.08
6.028	Peak	23.28	10.57	33.85	60.00	-26.15

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Report Number :TERF2305001079ER

Test Mode :Operation (BT)

Power :120V/60Hz

Probe :N

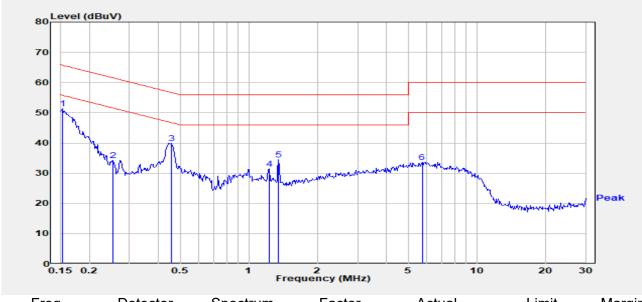
Note: :Adapter A299-200150U-US

Test Site :Conduction 1

Test Date :2023-05-16

Temp./Humi. :25.6/62

Engineer :Nick Lin



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
Peak	41.23	10.25	51.48	65.87	-14.40
Peak	24.03	10.25	34.28	61.60	-27.32
Peak	29.67	10.25	39.92	56.69	-16.77
Peak	20.78	10.57	31.35	56.00	-24.65
Peak	23.84	10.67	34.51	56.00	-21.49
Peak	23.08	10.57	33.65	60.00	-26.35
	Mode PK/QP/AV Peak Peak Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBμV Peak 41.23 Peak 24.03 Peak 29.67 Peak 20.78 Peak 23.84	Mode PK/QP/AV Reading Level dBμV dB Peak 41.23 10.25 Peak 24.03 10.25 Peak 29.67 10.25 Peak 20.78 10.57 Peak 23.84 10.67	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mode PK/QP/AVReading Level dB μVFS dB μVdB μVdB μVPeak41.2310.2551.4865.87Peak24.0310.2534.2861.60Peak29.6710.2539.9256.69Peak20.7810.5731.3556.00Peak23.8410.6734.5156.00

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Report Number :TERF2305001079ER

Test Mode :Operation (BT)

Power :240V/60Hz

Probe :L

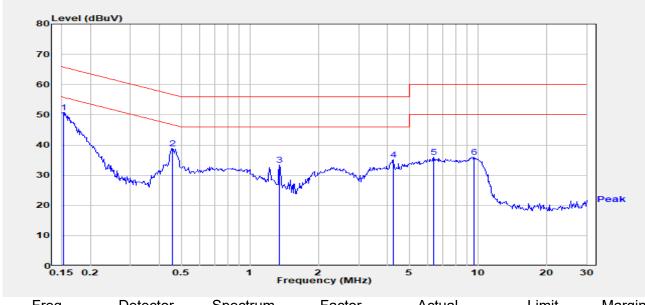
Note: :Adapter A299-200150U-US

Test Site :Conduction 1

Test Date :2023-05-16

Temp./Humi. :25.6/62

Engineer :Nick Lin



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
Peak	40.54	10.25	50.79	65.87	-15.08
Peak	28.60	10.25	38.85	56.75	-17.90
Peak	22.71	10.67	33.38	56.00	-22.62
Peak	24.48	10.62	35.10	56.00	-20.90
Peak	25.38	10.58	35.96	60.00	-24.04
Peak	25.38	10.63	36.01	60.00	-23.99
	Mode PK/QP/AV Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBμV Peak 40.54 Peak 28.60 Peak 22.71 Peak 24.48 Peak 25.38	Mode PK/QP/AV Reading Level dBμV dB Peak 40.54 10.25 Peak 28.60 10.25 Peak 22.71 10.67 Peak 24.48 10.62 Peak 25.38 10.58	Mode PK/QP/AV Reading Level dB μV FS dB μV Peak 40.54 10.25 50.79 Peak 28.60 10.25 38.85 Peak 22.71 10.67 33.38 Peak 24.48 10.62 35.10 Peak 25.38 10.58 35.96	Mode Pk/QP/AVReading Level dBμVFS dBμV $dBμV$ Peak 40.54 10.25 50.79 65.87 Peak 28.60 10.25 38.85 56.75 Peak 22.71 10.67 33.38 56.00 Peak 24.48 10.62 35.10 56.00 Peak 25.38 10.58 35.96 60.00

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Report Number :TERF2305001079ER

Test Mode :Operation (BT)

Power :240V/60Hz

Probe :N

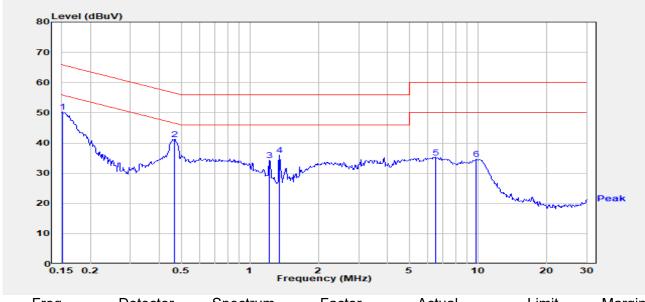
Note: :Adapter A299-200150U-US

Test Site :Conduction 1

Test Date :2023-05-16

Temp./Humi. :25.6/62

Engineer :Nick Lin



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
Peak	39.96	10.25	50.21	65.94	-15.72
Peak	31.01	10.25	41.26	56.56	-15.30
Peak	23.77	10.57	34.34	56.00	-21.66
Peak	25.38	10.67	36.05	56.00	-19.95
Peak	24.58	10.58	35.16	60.00	-24.84
Peak	24.11	10.63	34.74	60.00	-25.26
	Mode PK/QP/AV Peak Peak Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBμV Peak 39.96 Peak 31.01 Peak 23.77 Peak 25.38 Peak 24.58	Mode PK/QP/AV Reading Level dBμV dB Peak 39.96 10.25 Peak 31.01 10.25 Peak 23.77 10.57 Peak 25.38 10.67 Peak 24.58 10.58	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mode PK/QP/AVReading Level dB μVFS dB μVdB μVdB μVPeak39.9610.2550.2165.94Peak31.0110.2541.2656.56Peak23.7710.5734.3456.00Peak25.3810.6736.0556.00Peak24.5810.5835.1660.00

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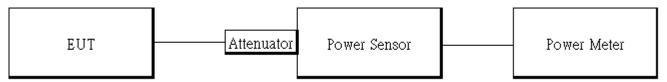
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PEAK OUTPUT POWER MEASUREMENT

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.

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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Peak & Average Power Measurement Result

1M BR mode (Peak):

The Bit mode (Fedity).								
СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)			
Low	2402	11	18.42	69.502	1000			
Mid	2441	11	18.89	77.446	1000			
High	2480	11	18.09	64.417	1000			

1M BR mode (Average):

СН	Freq. (MHz)	Power set	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	11	17.97	62.609	1000
Mid	2441	11	17.99	62.898	1000
High	2480	11	17.94	62.178	1000

2M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	11	14.53	28.379	125
Mid	2441	11	14.96	31.333	125
High	2480	11	14.27	26.730	125

2M EDR mode (Average):

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СН	Freq. (MHz)	Power set	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)	
Low	2402	11	11.46	14.008	125	
Mid	2441	11	12.24	16.764	125	
High	2480	11	11.33	13.595	125	

3M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	11	14.71	29.580	125
Mid	2441	11	15.56	35.975	125
High	2480	11	14.34	27.164	125

3M EDR mode (Average):

СН	Freq. (MHz)	Power set	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	11	11.65	14.635	125
Mid	2441	11	12.57	18.088	125
High	2480	11	11.41	13.848	125

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

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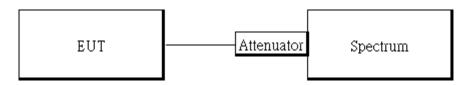
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9 EMISSION BANDWIDTH MEASUREMENT

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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GFSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.9584	0.64
Mid	0.9572	0.64
High	0.9577	0.64

π/4-DQPSK

СН	20 dB BW	2/3 BW
011	(MHz)	(MHz)
Low	1.322	0.88
Mid	1.324	0.88
High	1.323	0.88

8-DPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.312	0.87
Mid	1.310	0.87
High	1.310	0.87

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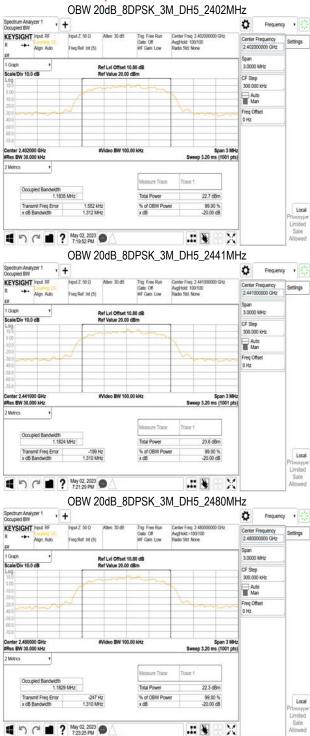
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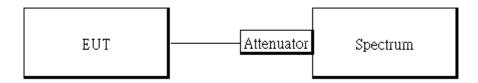
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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.

Measurement Result

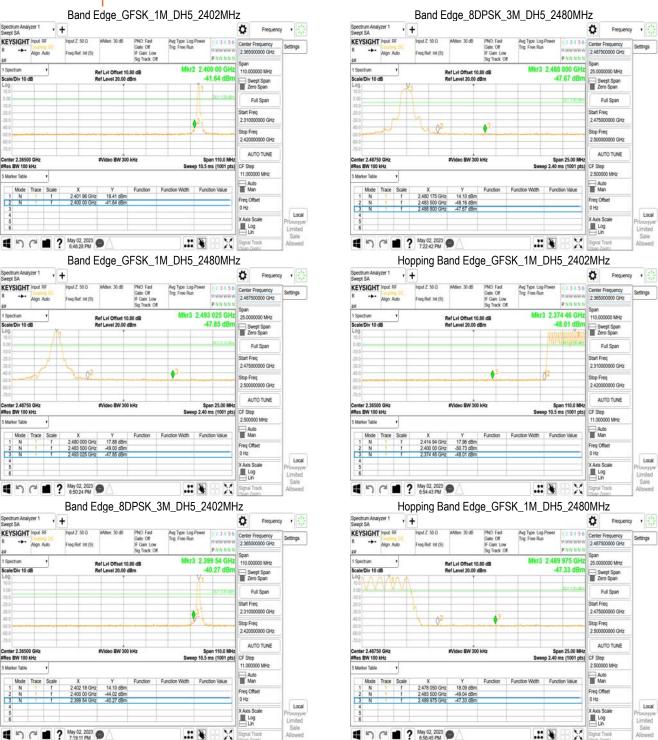
See next page for test plots.

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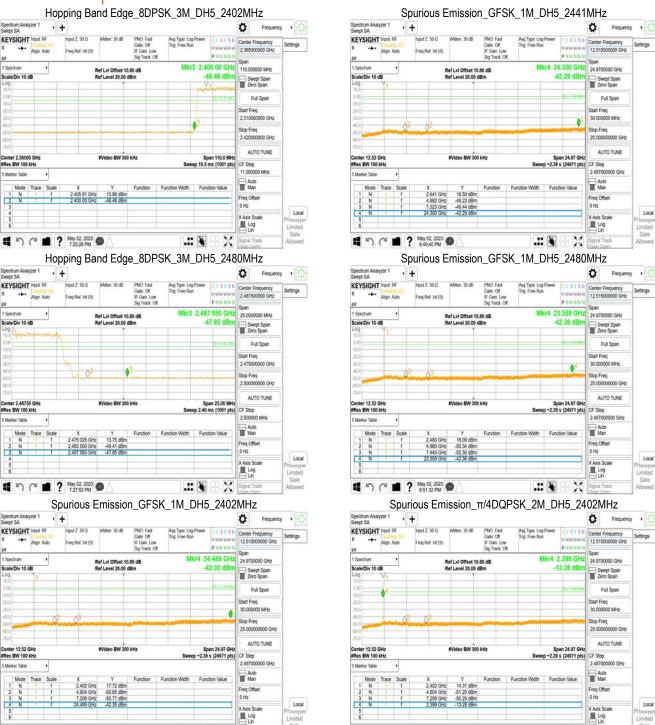


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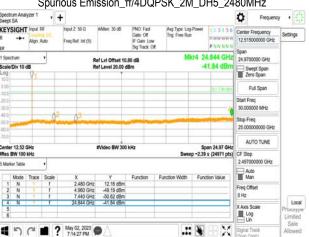
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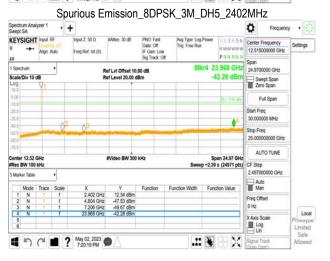
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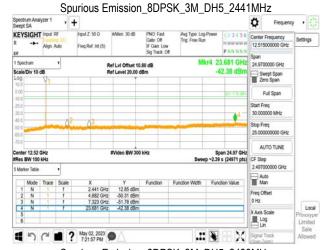


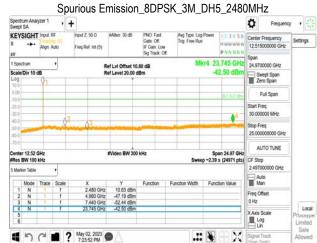
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Spurious Emission π/4DQPSK 2M DH5 2441MHz ٥ PNO Fast Gate Off IF Gain Low Sig Track Off KEYSIGHT Input RF wt 7 50 0 12.515000000 GH r4 23.961 GHz Ref Lvi Offset 10.80 dB Ref Level 20.00 dBm Scale/Div 10 dB -41.64 d Swept Span Zero Span Full Span nter 12.52 GH an 24.97 GH FRes BW 100 kH Auto Man Mode Trace Sc Function Width Function Value Freq Offset 0 Hz Local X Axis Scale Log Lin 4 5 C 1 ? May 02, 2023 9 .:: ₹ X Sq Spurious Emission_π/4DQPSK_2M_DH5_2480MHz Frequency • ٥ KEYSIGHT Input RF 12.515000000 GHz 24.9700000 GHz Scale/Div 10 dB -41.84 d Swept Span Zero Span Full Span









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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

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 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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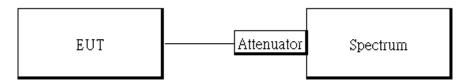


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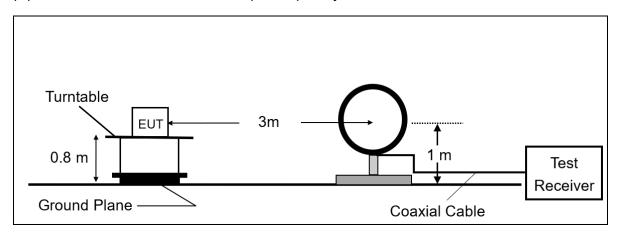
11.2 Test Setup

11.2.1 Duty Cycle Correction Factor

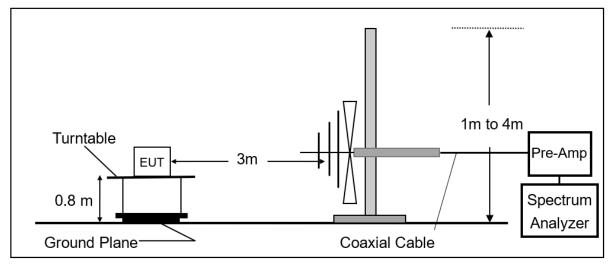


11.2.2 Radiated Emission

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



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



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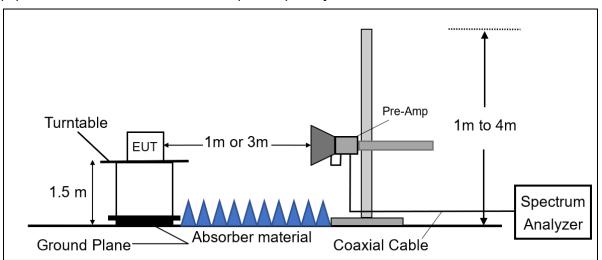
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



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 (Ton/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*log(uV/m)

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + 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 (Ton/100 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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Measurement Result:

11.6.1 **Duty Cycle Correction Factor**

Bluetooth 1M			
Time ON of 100ms:	5.666	ms	
Duty Cycle=5.666ms / 100n	0.05666	%	
Duty Cycle correction factor	r=20 LOG 0.05666	-24.93	dB
Bluetooth 3M			
Bluetooth 3M Time ON of 100ms:	5.334	ms	
	0.00	ms %	

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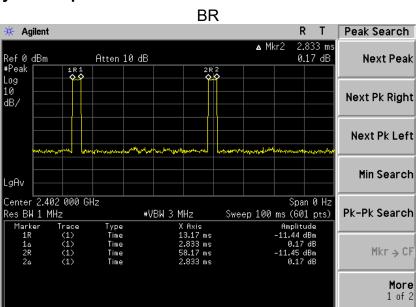
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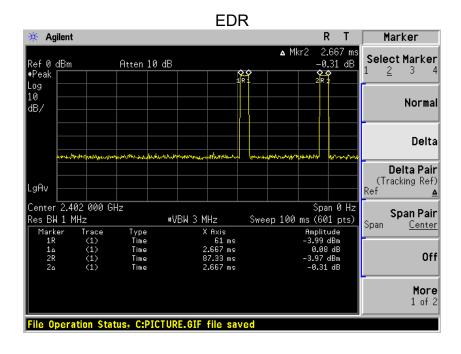
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11.6.2 **Duty Cycle test plot**





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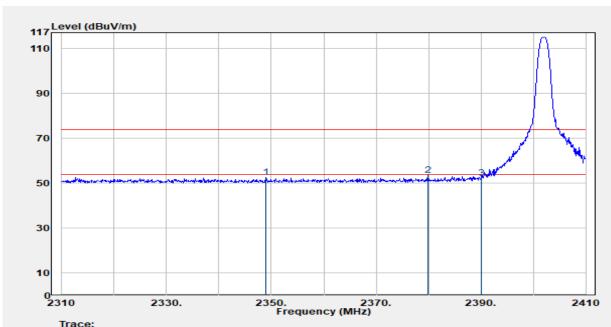
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11.6.3 Bandedge Result

Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :BR Test Date :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Nick Lin



Trace:						
Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2349.000	Peak	57.25	-4.55	52.71	74.00	-21.29
2379.900	Peak	57.99	-4.33	53.66	74.00	-20.34
2390.000	Peak	56.45	-4.25	52.20	74.00	-21.80
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2349.000	Average	52.71	-24.93	27.78	54.00	-26.22
2379.900	Average	53.66	-24.93	28.73	54.00	-25.27
2390.000	Average	52.20	-24.93	27.27	54.00	-26.73

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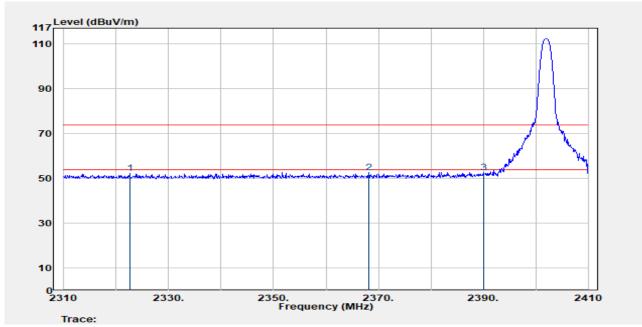
Test Site :SAC 3 Report Number :TERF2305001079ER

Operation Mode Test Date :2023-05-17 :BR

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

Engineer **EUT Pol** :E1 Plane :Nick Lin



	2310 Trace:	2330.	2350. Freq	2370. uency (MHz)	2390.	2410	
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dBμV	dB	dBµV/m	dΒμV/m	dB
	2322.600	Peak	56.73	-4.44	52.30	74.00	-21.70
	2368.100	Peak	57.06	-4.42	52.64	74.00	-21.36
	2390.000	Peak	56.99	-4.25	52.74	74.00	-21.26
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	(dB)
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(GD)
-	2322.600	Average	52.30	-24.93	27.37	54.00	-26.63
	2368.100	Average	52.64	-24.93	27.71	54.00	-26.29
	2390.000	Average	52.74	-24.93	27.81	54.00	-26.19

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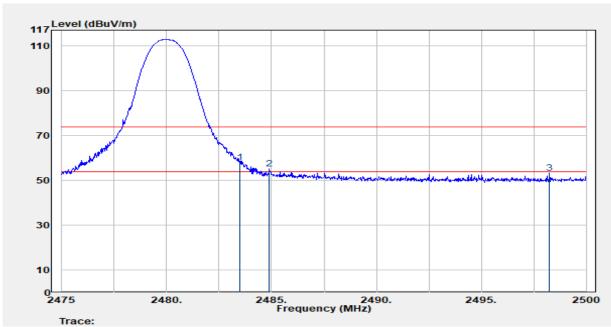
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Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :BR **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57 Test Mode :Bandedge Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



2413	2400.	Freq	Frequency (MHz)		2300	2300	
Trace:							
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
						_	
2483.500	Peak	62.82	-4.64	58.18	74.00	-15.82	
2484.900	Peak	59.84	-4.64	55.20	74.00	-18.80	
2498.250	Peak	57.71	-4.60	53.12	74.00	-20.88	
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Marain	
·	Mode	FS	Factor	Value	Limit@3m	Margin	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
				,	,		
2483.500	Average	58.18	-24.93	33.25	54.00	-20.75	
2484.900	Average	55.20	-24.93	30.27	54.00	-23.73	
2498.250	Average	53.12	-24.93	28.19	54.00	-25.81	

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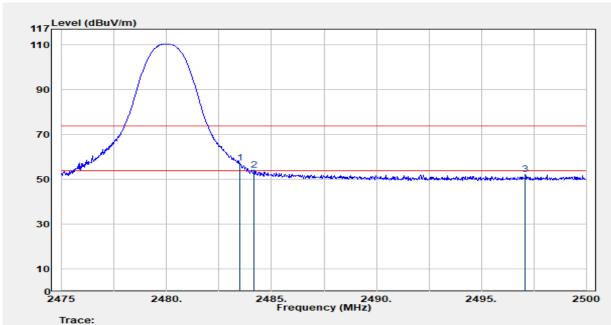
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :BR **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



Frequency (MHz) Trace:							
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB	
2483.500	Peak	61.97	-4.64	57.33	74.00	-16.67	
2484.175	Peak	58.71	-4.64	54.07	74.00	-19.93	
2497.100	Peak	56.77	-4.60	52.17	74.00	-21.83	
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin	
	Mode	FS	Factor	Value	Limit@3m	(dB)	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(db)	
2483.500	Average	57.33	-24.93	32.40	54.00	-21.60	
2484.175	Average	54.07	-24.93	29.14	54.00	-24.86	
2497.100	Average	52.17	-24.93	27.24	54.00	-26.76	

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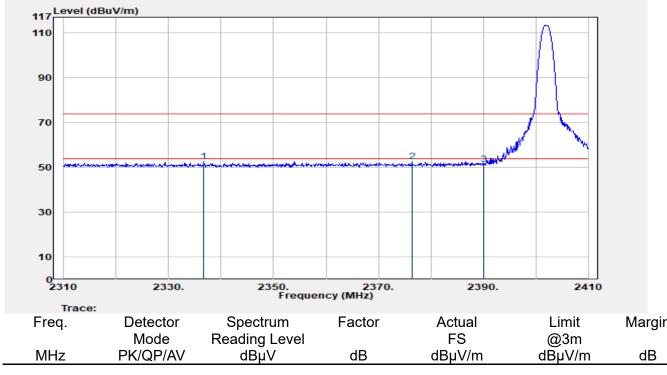
Report Number **Test Site** :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E1 Plane Engineer :Nick Lin



	Frequency (MHz) Trace:							
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBμV/m	dB	
	2336.700	Peak	57.02	-4.49	52.53	74.00	-21.47	
	2376.400	Peak	57.01	-4.35	52.66	74.00	-21.34	
	2390.000	Peak	55.51	-4.25	51.26	74.00	-22.74	
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin	
		Mode	FS	Factor	Value	Limit@3m	(dB)	
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(db)	
-	2336.700	Average	52.53	-25.46	27.07	54.00	-26.93	
	2376.400	Average	52.66	-25.46	27.20	54.00	-26.80	
	2390.000	Average	51.26	-25.46	25.80	54.00	-28.20	

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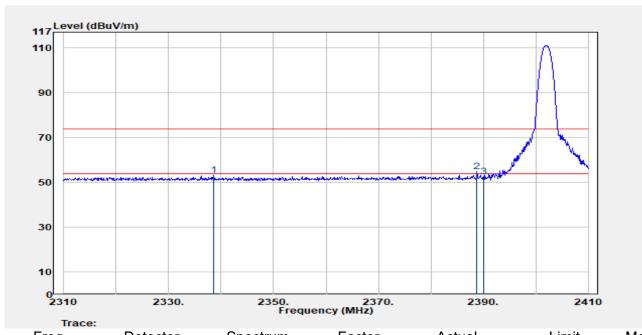
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :EDR 3M Test Date :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



			Freq	Frequency (MHz)			
	Trace:						
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
_					•	•	
	2338.500	Peak	57.62	-4.50	53.12	74.00	-20.88
	2388.800	Peak	59.24	-4.26	54.98	74.00	-19.02
	2390.000	Peak	56.94	-4.25	52.68	74.00	-21.32
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Morgin
	·	Mode	FS	Factor	Value	Limit@3m	Margin
	MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
-	2338.500	Average	53.12	-25.46	27.66	54.00	-26.34
	2388.800	Average	54.98	-25.46	29.52	54.00	-24.48
	2390.000	Average	52.68	-25.46	27.22	54.00	-26.78

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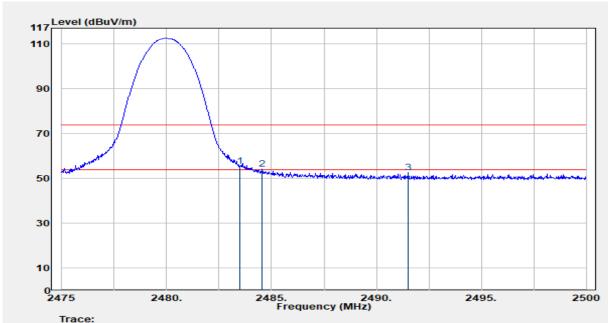
Test Site :SAC 3 Report Number :TERF2305001079ER

Operation Mode **Test Date** :2023-05-17 :EDR 3M

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



	2413	2400.	Freq	Frequency (MHz)		2500	00	
	Trace:							
	Freq.	Detector Mode	Spectrum Reading Level		Actual FS	Limit @3m	Margin	
	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
	2483.500	Peak	60.00	-4.64	55.36	74.00	-18.64	
	2484.550	Peak	58.96	-4.64	54.32	74.00	-19.68	
	2491.525	Peak	57.34	-4.62	52.72	74.00	-21.28	
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin	
_	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
	2483.500	Average	55.36	-25.46	29.90	54.00	-24.10	
	2484.550	Average	54.32	-25.46	28.86	54.00	-25.14	

-25.46

27.26

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52.72

Average

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2491.525

54.00

-26.74



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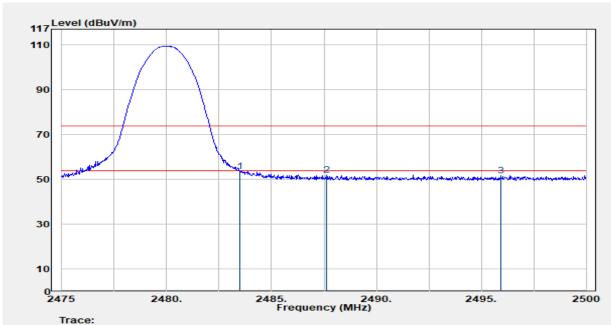
Report Number **Test Site** :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



			Frequency (MHz)				
	Trace:						
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
_						•	
	2483.500	Peak	58.36	-4.64	53.72	74.00	-20.28
	2487.600	Peak	56.70	-4.63	52.07	74.00	-21.93
	2495.925	Peak	56.20	-4.60	51.60	74.00	-22.40
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Marain
	·	Mode	FS	Factor	Value	Limit@3m	Margin
	MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
-	2483.500	Average	53.72	-25.46	28.26	54.00	-25.74
	2487.600	Average	52.07	-25.46	26.61	54.00	-27.39
	2495.925	Average	51.60	-25.46	26.14	54.00	-27.86

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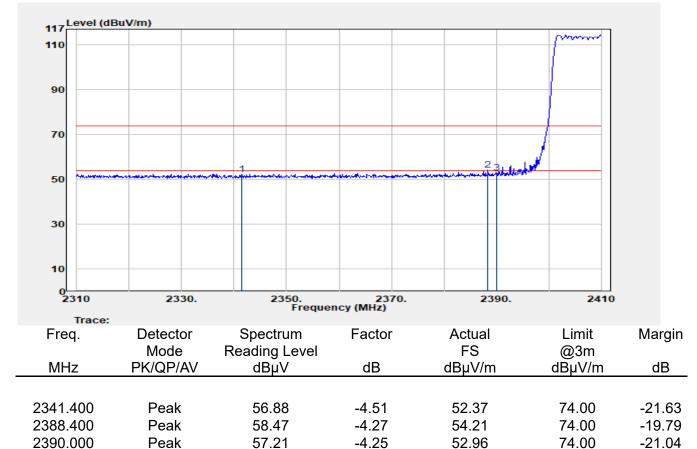
Test Site :SAC 3 Report Number :TERF2305001079ER

Operation Mode Test Date :2023-05-17 :BR Hopping

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E1 Plane Engineer :Nick Lin



2000.000	· oan	01.21	20	02.00		2
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2341.400	Average	52.37	-24.93	27.44	54.00	-26.56
2388.400	Average	54.21	-24.93	29.28	54.00	-24.72
2390.000	Average	52.96	-24.93	28.03	54.00	-25.97

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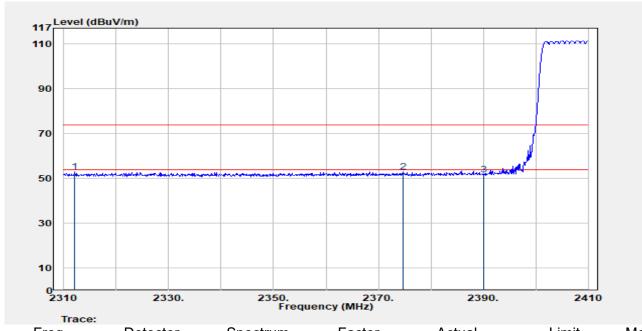
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :BR Hopping Test Date :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



2310 Trace:	2330.	2350. Freq	2350. 2370. Frequency (MHz)		2410	
Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2312.100	Peak	57.25	-4.39	52.86	74.00	-21.14
2374.800	Peak	57.33	-4.37	52.96	74.00	-21.04
2390.000	Peak	55.99	-4.25	51.74	74.00	-22.26
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(42)
2312.100	Average	52.86	-24.93	27.93	54.00	-26.07
2374.800	Average	52.96	-24.93	28.03	54.00	-25.97
2390.000	Average	51.74	-24.93	26.81	54.00	-27.19

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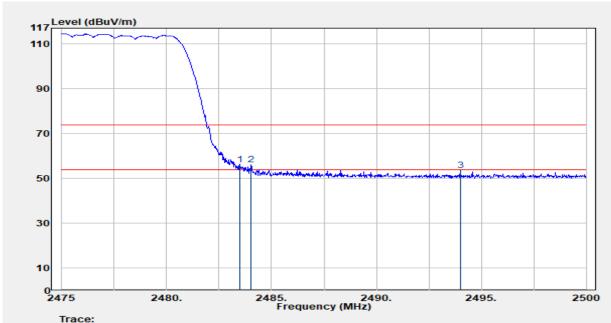
Test Site :SAC 3 Report Number :TERF2305001079ER

Operation Mode **Test Date** :2023-05-17 :BR Hopping

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



	2475 Trace:	2480.	2485. Freq	2490. Juency (MHz)	2495.	2500	
	Freq.	Detector Mode	Spectrum Reading Leve	Factor I	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
	2483.500	Peak	60.71	-4.64	56.07	74.00	-17.93
	2484.025	Peak	60.72	-4.64	56.08	74.00	-17.92
	2494.000	Peak	58.21	-4.61	53.60	74.00	-20.40
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	(dB)
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(GD)
-	2483.500	Average	56.07	-24.93	31.14	54.00	-22.86
	2484.025	Average	56.08	-24.93	31.15	54.00	-22.85
	2494.000	Average	53.60	-24.93	28.67	54.00	-25.33

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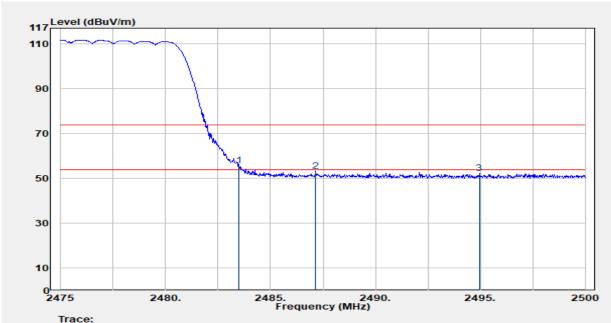
Test Site :SAC 3 Report Number :TERF2305001079ER

Operation Mode **Test Date** :2023-05-17 :BR Hopping

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

Engineer **EUT Pol** :E1 Plane :Nick Lin



24/5	2480.	2485. Freq	uency (MHz)	2495. 2500			
Trace:							
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
2483.500	Peak	60.35	-4.64	55.71	74.00	-18.29	
2487.150	Peak	57.91	-4.63	53.28	74.00	-20.72	
2494.950	Peak	56.91	-4.61	52.31	74.00	-21.69	
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin	
	Mode	FS	Factor	Value	Limit@3m	(dB)	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(UD)	
2483.500	Average	55.71	-24.93	30.78	54.00	-23.22	
2487.150	Average	53.28	-24.93	28.35	54.00	-25.65	
2494.950	Average	52.31	-24.93	27.38	54.00	-26.62	

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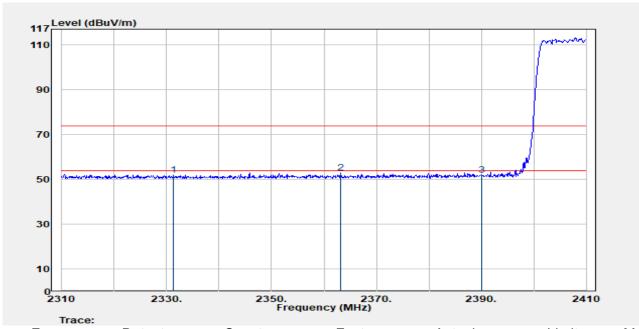


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Test Site :SAC 3 Report Number :TERF2305001079ER

Operation Mode **Test Date** :2023-05-17 :EDR 3M Hopping

Test Frequency :2402 MHz Temp./Humi. :24.3/57 Test Mode :Bandedge Antenna Pol. :Vertical Engineer **EUT Pol** :E1 Plane :Nick Lin



2310	2550.	Freq	uency (MHz)	2390.	2410	2410	
Trace:							
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
2331.300	Peak	56.62	-4.47	52.15	74.00	-21.85	
2363.100	Peak	57.34	-4.45	52.88	74.00	-21.12	
2390.000	Peak	56.22	-4.25	51.97	74.00	-22.03	
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin	
	Mode	FS	Factor	Value	Limit@3m	•	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2331.300	Average	52.15	-25.46	26.69	54.00	-27.31	
2363.100	Average	52.88	-25.46	27.42	54.00	-26.58	
2390.000	Average	51.97	-25.46	26.51	54.00	-27.49	

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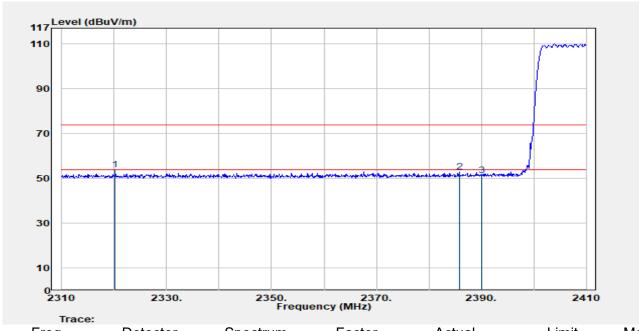
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :EDR 3M Hopping Test Date :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



	0						
	2310	2330.	2350. Frequ	2370. uency (MHz)	2390.	2410	
	Trace:						
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	•	Mode	Reading Level		FS	@3m	J
	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	2320.200	Peak	58.17	-4.43	53.75	74.00	-20.25
	2385.800	Peak	57.28	-4.28	52.99	74.00	-21.01
	2390.000	Peak	55.68	-4.25	51.42	74.00	-22.58
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	•
	MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
_	2320.200	Average	53.75	-25.46	28.29	54.00	-25.71
	2385.800	Average	52.99	-25.46	27.53	54.00	-26.47
	2390.000	Average	51.42	-25.46	25.96	54.00	-28.04

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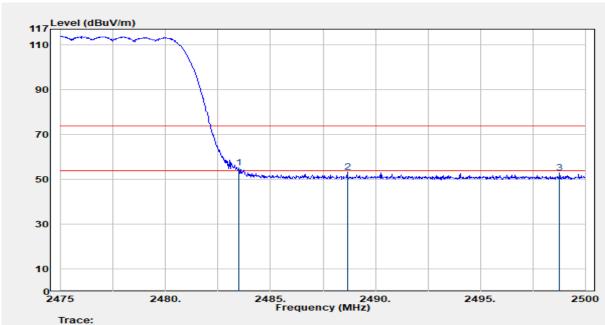


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Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :EDR 3M Hopping Test Date :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57
Test Mode :Bandedge Antenna Pol. :Vertical
EUT Pol :E1 Plane Engineer :Nick Lin



24/5	2480. 2485. 2490. Frequency (MHz)			2495.	2495. 2500		
Trace: Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
2483.500	Peak	59.97	-4.64	55.33	74.00	-18.67	
2488.675	Peak	57.74	-4.63	53.11	74.00	-20.89	
2498.775	Peak	57.48	-4.59	52.89	74.00	-21.11	
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin	
Freq. MHz 2483.500 2488.675 2498.775	Mode	FS	Factor	Value	Limit@3m	(dB)	
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dD)	
2483.500	Average	55.33	-25.46	29.87	54.00	-24.13	
2488.675	Average	53.11	-25.46	27.65	54.00	-26.35	
2498.775	Average	52.89	-25.46	27.43	54.00	-26.57	

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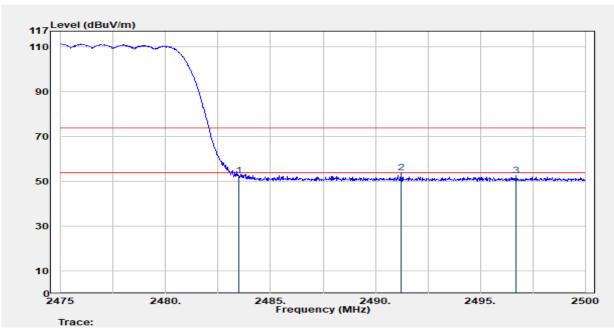
Report Number **Test Site** :SAC 3 :TERF2305001079ER

Operation Mode **Test Date** :2023-05-17 :EDR 3M Hopping

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



Trace:	riequency (winz)					
Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
2483.500	Peak	57.37	-4.64	52.73	74.00	-21.27
2491.225	Peak	58.40	-4.62	53.78	74.00	-20.22
2496.725	Peak	57.14	-4.60	52.54	74.00	-21.46
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	52.73	-25.46	27.27	54.00	-26.73
2491.225	Average	53.78	-25.46	28.32	54.00	-25.68
2496.725	Average	52.54	-25.46	27.08	54.00	-26.92

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11.6.4 Radiated Spurious Emission

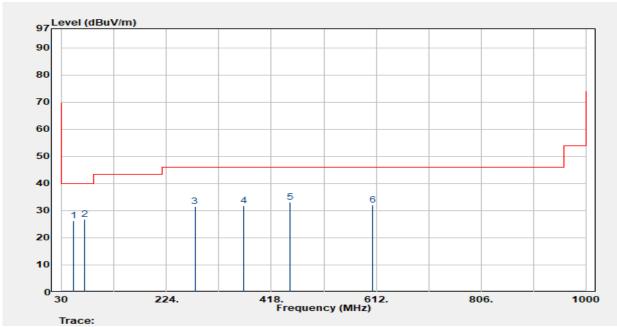
Report Number :TERF2305001079ER Test Site :SAC 3

:EDR 3M Operation Mode **Test Date** :2023-05-17

Test Frequency :2441 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E1 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
51.340	Peak	34.69	-8.44	26.26	40.00	-13.74
71.710	Peak	37.77	-11.03	26.74	40.00	-13.26
276.380	Peak	38.95	-7.49	31.47	46.00	-14.53
366.590	Peak	37.54	-5.85	31.68	46.00	-14.32
451.950	Peak	37.15	-4.10	33.05	46.00	-12.95
605.210	Peak	32.41	-0.21	32.20	46.00	-13.80

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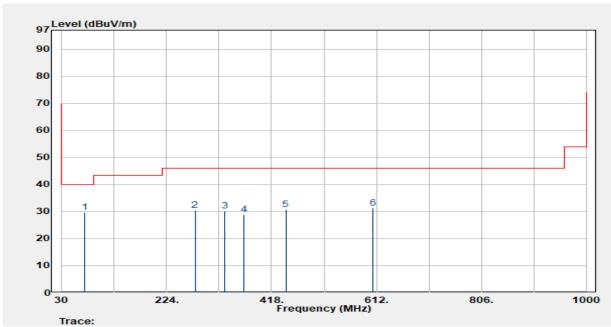
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :EDR 3M Test Date :2023-05-17

Test Frequency :2441 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
71.710	Peak	40.86	-11.03	29.83	40.00	-10.17
276.380	Peak	37.98	-7.49	30.49	46.00	-15.51
331.670	Peak	36.52	-6.25	30.27	46.00	-15.73
366.590	Peak	34.68	-5.85	28.83	46.00	-17.17
444.190	Peak	34.70	-4.01	30.70	46.00	-15.30
605.210	Peak	31.62	-0.21	31.40	46.00	-14.60

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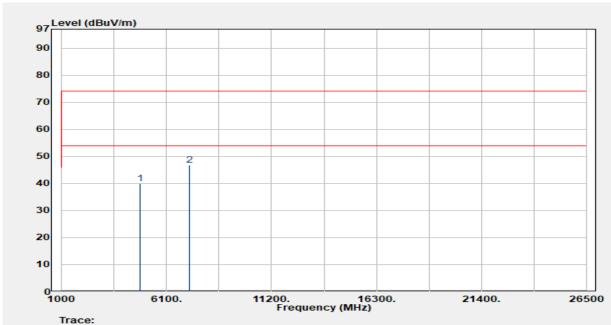
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :BR **Test Date** :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



Frequency (MHz) Trace:						
Freq.	Detector Mode	Spectrum Reading Leve	Factor el	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB
4804.000	Peak	40.31	-0.36	39.95	74.00	-34.05
7206.000	Peak	40.75	5.94	46.69	74.00	-27.31
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(GD)
4804.000	Average	39.95	-24.93	15.02	54.00	-38.98
7206.000	Average	46.69	-24.93	21.76	54.00	-32.24

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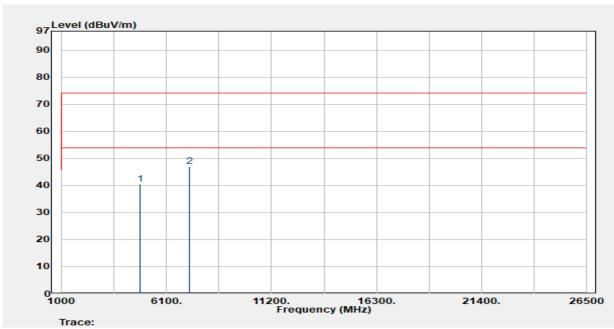
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :BR Test Date :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



Trace:						
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBμV/m	dB
4804.000	Peak	40.87	-0.36	40.50	74.00	-33.50
7206.000	Peak	41.02	5.94	46.96	74.00	-27.04
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(ub)
4804.000	Average	40.50	-24.93	15.57	54.00	-38.43
7206.000	Average	46.96	-24.93	22.03	54.00	-31.97

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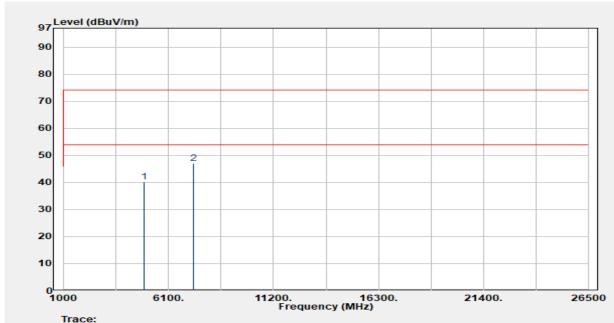
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :BR **Test Date** :2023-05-17

Test Frequency :2441 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



Frequency (MHz) Trace:							
	Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	4882.000	Peak	40.55	-0.29	40.25	74.00	-33.75
	7323.000	Peak	41.24	5.84	47.09	74.00	-26.91
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	(dB)
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(ub)
	4882.000	Average	40.25	-24.93	15.32	54.00	-38.68
	7323.000	Average	47.09	-24.93	22.16	54.00	-31.84

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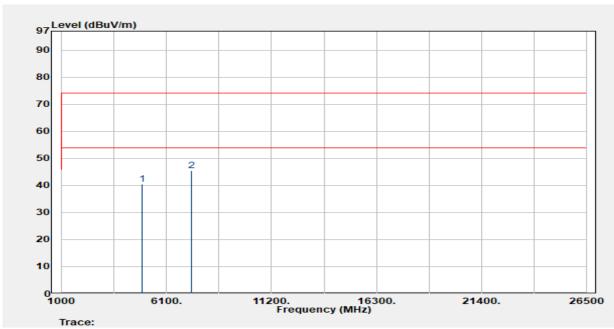
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :BR Test Date :2023-05-17

Test Frequency :2441 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	40.85	-0.29	40.56	74.00	-33.44
7323.000	Peak	39.66	5.84	45.51	74.00	-28.49
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(ab)
4882.000	Average	40.56	-24.93	15.63	54.00	-38.37
7323.000	Average	45.51	-24.93	20.58	54.00	-33.42

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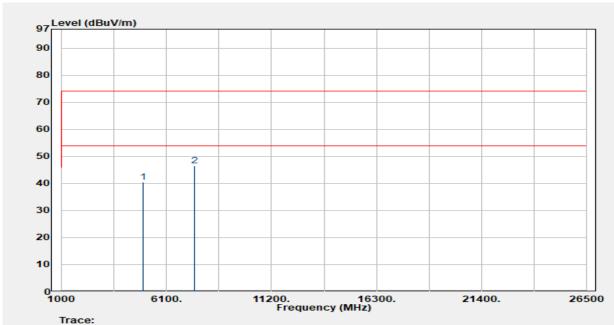
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :BR **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



Trace:							
	Freq.	Detector Mode	Spectrum Reading Leve	Factor I	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							<u>.</u>
	4960.000	Peak	40.80	-0.27	40.53	74.00	-33.47
	7440.000	Peak	40.16	6.48	46.64	74.00	-27.36
	Freq.	Detector	Peak Actual FS	Duty Cycle	Average	Average	Margin
	MHz	Mode		Factor	Value	Limit@3m	(dB)
_	IVITZ	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	
	4960.000	Average	40.53	-24.93	15.60	54.00	-38.40
	7440.000	Average	46.64	-24.93	21.71	54.00	-32.29

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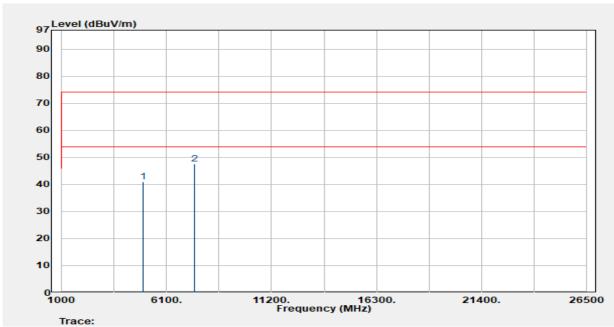
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :BR **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :E1 Plane :Nick Lin



	Trace:	0100.	Freq	Frequency (MHz)		21400.	
	Freq.	Detector Mode	Spectrum Reading Leve	Factor I	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBμV/m	dB
	4960.000	Peak	41.30	-0.27	41.03	74.00	-32.97
	7440.000	Peak	41.04	6.48	47.51	74.00	-26.49
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
	MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
-	4960.000	Average	41.03	-24.93	16.10	54.00	-37.90
	7440.000	Average	47.51	-24.93	22.58	54.00	-31.42

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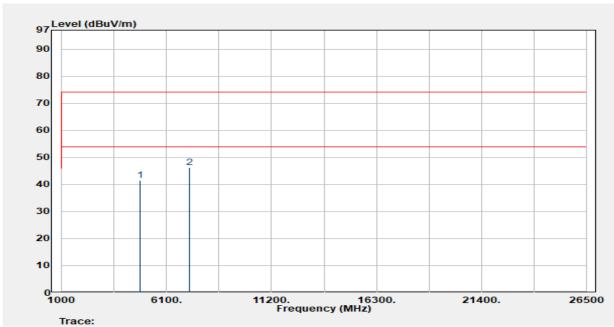
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



Frequency (MHz) Trace:						
Freq.	Detector Mode	Spectrum Reading Level	Factor I	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4804.000	Peak	41.89	-0.36	41.53	74.00	-32.47
7206.000	Peak	40.25	5.94	46.19	74.00	-27.81
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(ub)
4804.000	Average	41.53	-25.46	16.07	54.00	-37.93
7206.000	Average	46.19	-25.46	20.73	54.00	-33.27

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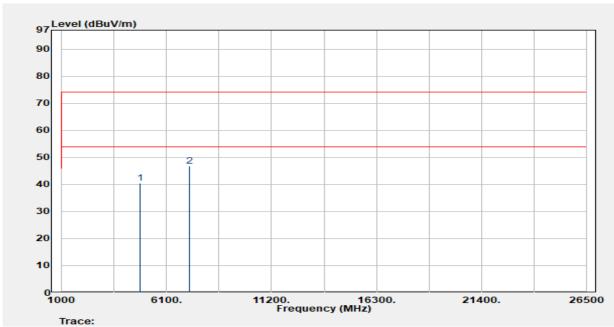
Report Number :TERF2305001079ER Test Site :SAC 3

Operation Mode :EDR 3M Test Date :2023-05-17

Test Frequency :2402 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :Nick Lin



Trace:		116	quency (wiriz)			
Freq.	Detector Mode	Spectrum Reading Leve	Factor el	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB
4804.000	Peak	40.90	-0.36	40.54	74.00	-33.46
7206.000	Peak	40.79	5.94	46.73	74.00	-27.27
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4804.000	Average	40.54	-25.46	15.08	54.00	-38.92
7206.000	Average	46.73	-25.46	21.27	54.00	-32.73

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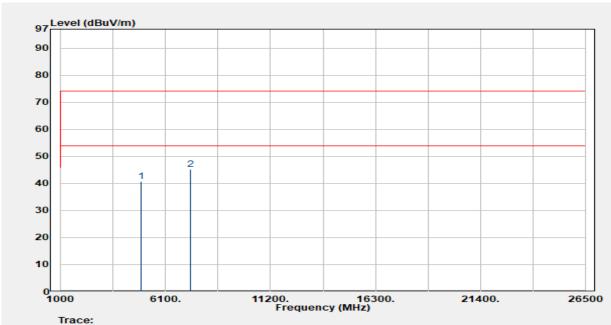
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2441 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



		Frequ	uency (MHz)	2	20000	
Trace:						
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		•		•	•	
4882.000	Peak	41.07	-0.29	40.77	74.00	-33.23
7323.000	Peak	39.27	5.84	45.12	74.00	-28.88
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	
•	Mode	FS	Factor	Value	Limit@3m	Margin
MHz					_	(dB)
IVITZ	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	· ,
4882.000	Average	40.77	-25.46	15.31	54.00	-38.69
7323.000	Averege	45.12	-25.46	19.66	54.00	-34.34
1323.000	Average	45.12	-25.40	19.00	54.00	-34.34

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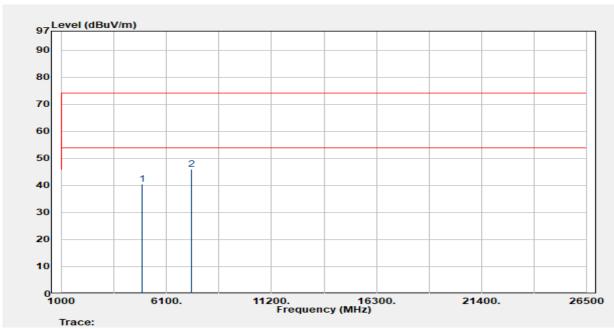
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2441 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :E1 Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	40.72	-0.29	40.43	74.00	-33.57
7323.000	Peak	40.18	5.84	46.03	74.00	-27.97
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(GB)
4882.000	Average	40.43	-25.46	14.97	54.00	-39.03
7323.000	Average	46.03	-25.46	20.57	54.00	-33.43

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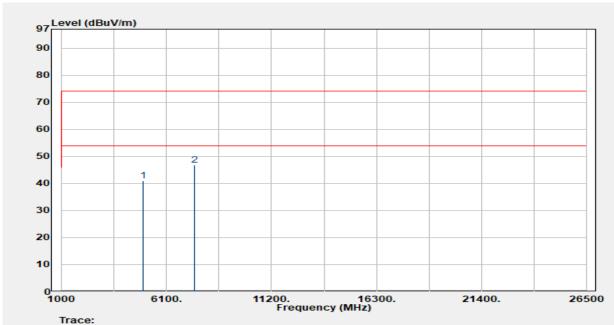
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Vertical

Engineer **EUT Pol** :E1 Plane :Nick Lin



	Trace:	6100.	Freq	uency (MHz)	21400.	20500	,
	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBμV/m	dB
	4960.000	Peak	41.20	-0.27	40.93	74.00	-33.07
	7440.000	Peak	40.36	6.48	46.84	74.00	-27.16
	Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
	MHz	AV	$(dB\mu V/m)$	(dB)	(dBuV/m)	(dBuV/m)	(dB)
_	4960.000	Average	40.93	-25.46	15.47	54.00	-38.53
	7440.000	Average	46.84	-25.46	21.38	54.00	-32.62

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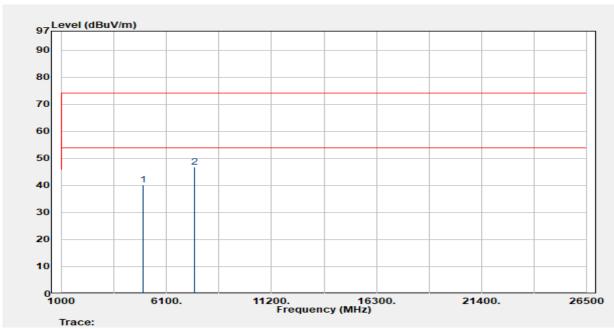
Report Number Test Site :SAC 3 :TERF2305001079ER

Operation Mode :EDR 3M **Test Date** :2023-05-17

Test Frequency :2480 MHz Temp./Humi. :24.3/57

Test Mode :Tx Antenna Pol. :Horizontal

Engineer **EUT Pol** :E1 Plane :Nick Lin



	Trace:		110	quency (mnz)			
	Freq.	Detector Mode	Spectrum Reading Leve	Factor el	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	dB
	4960.000	Peak	40.59	-0.27	40.32	74.00	-33.68
	7440.000	Peak	40.44	6.48	46.92	74.00	-27.08
	Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
		Mode	FS	Factor	Value	Limit@3m	(dB)
	MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(ub)
_	4960.000	Average	40.32	-25.46	14.86	54.00	-39.14
	7440.000	Average	46.92	-25.46	21.46	54.00	-32.54

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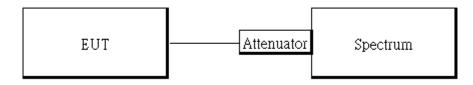
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12 FREQUENCY SEPARATION

12.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB 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 ≥ 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	≥25 kHz or 2/3 times 20dB bandwidth	PASS

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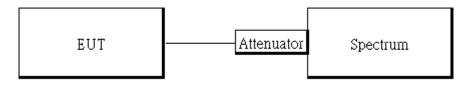
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13 NUMBER OF HOPPING FREQUENCY

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

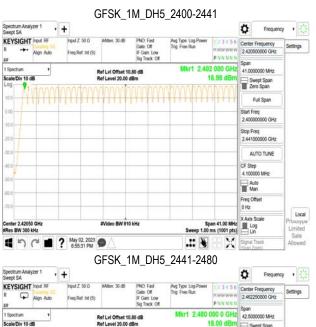
	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	
2.441 GHz – 2.4835 GHz	39	>15
2.4 GHz ~2.4835 GHz	(40+39) = 79	

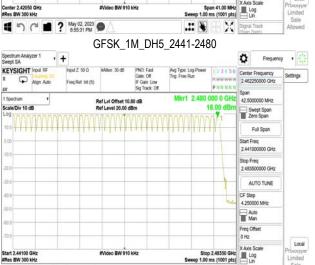
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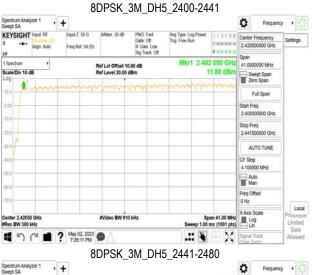
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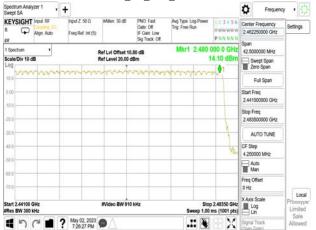




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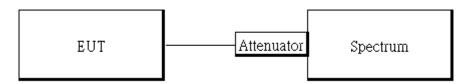
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14 TIME OF OCCUPANCY (DWELL TIME)

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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Measurement Result GFSK (1Mbps)

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

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	2DH1	123.20	400ms
Mid	2DH3	262.40	400ms
	2DH5	308.80	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	3DH1	123.20	400ms
Mid	3DH3	262.40	400ms
	3DH5	308.80	400ms

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GFSK (1Mbps):

CH Mid DH1 time slot = 0.385 * $(1600/2/79)$ *	31.6 =	123.20 (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 = $0.385 * (1600/2/79) * 31.6 = 123.20$

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 = 2.895 * (1600/6/79) * 31.6 = 308.80 (ms)

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

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15 ANTENNA REQUIREMENT

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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