

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Amp Fit, Inc.

651 N. Broad St. Suite 308, Middletown, Delaware, United

States 19709

Manufacturer: SRS Technology Co. Ltd.

No. 39, Shalun, Anding Dist., Tainan City 745002

Product Name: amp

Brand Name: amp

Model No.: amp

Report Number: TERF2405001395E2

FCC ID 2BG7RAMP

Date of EUT Received: May 14, 2024

Date of Test: May 15, 2024~Jun. 03, 2024

Issue Date: Sep. 02, 2024

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.

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

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2405001395E2	00	Original.	Aug. 07, 2024	Yami Kuo			
TERF2405001395E2	01	Updated Chapters 8.1 and 9.4	Aug. 13, 2024	Yami Kuo	*		
TERF2405001395E2	02	Updated Chapter 9.4	Sep. 02, 2024	Yami Kuo	*		

Note:

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

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

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GENERAL INFORMATION

1.1 **Product Description**

Product Name:	amp
Brand Name:	amp
Model No.:	amp
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N/A
Power Supply:	120VAC
Test Software (Name/Version)	Tera Term Version 4.84

1.2 **RF Specification**

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	11.03 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	≤ 0.4s

1.3 **Antenna Designation**

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
FPC	2402 ~ 2480	3.23

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 124 Wu Kung Bood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	1 440021	
	raiper City, Taiwan.	Conducted 3	_	TW3702
		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, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydair City, Taiwair 555	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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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-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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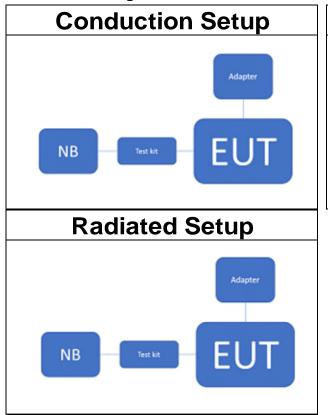
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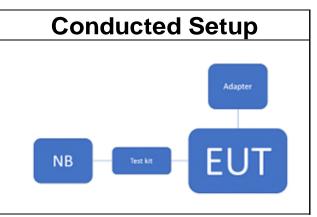
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Member of SGS Group



2.5 Test Configuration





2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Adapter	AMIGO	AMS115-1202000FU	N/A	N/A	N/A	
Test Kit	Waveshare	PL2303 USB UART Board	N/A	N/A	N/A	
Notebook	Lenovo	L480	P0002332	N/A	N/A	
	С	onducted Emission T	est Site: Conducted	D		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Adapter	AMIGO	AMS115-1202000FU	N/A	N/A	N/A	
Test Kit	Waveshare	PL2303 USB UART Board	N/A	N/A	N/A	
Notebook	Lenovo	T14	P0003332	N/A	N/A	
		Radiated Emission	n Test Site: SAC G			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Adapter	AMIGO	AMS115-1202000FU	N/A	N/A	N/A	
Test Kit	Waveshare	PL2303 USB UART Board	N/A	N/A	N/A	
Notebook	Lenovo	L480	P0002332	N/A	N/A	

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	
§15.207(a)	AC Power Line Conducted Emission	Compliant	
§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	

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DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

2400~2483.5 MHz							
СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)	СН	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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The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 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.
- 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							
	0 to 78	0,39,78	GFSK	DH5				
Bluetooth	0 to 78	0,39,78	π/4-DQPSK	2DH5				
	0 to 78	0,39,78	8-DPSK	3DH5				
		Band Edge						
Bluetooth	0 to 78	0,78	GFSK/π/4-DQPSK	DH5/2DH5				
		Frequency Separa	tion					
		0,1,2,	GFSK	DH5				
Bluetooth	0 to 78	38,39,40, 76,77,78	π/4-DQPSK	2DH5				
			8-DPSK	3DH5				
	Number of Ho	pping Frequency, H	opping Band edge					
Bluetooth	0 to 78	0 to 78	GFSK/π/4-DQPSK	DH5/2DH5				
	Tin	ne of Occupancy(Dw	vell time)					
			GFSK	DH1/DH3/DH5				
Bluetooth	0 to 78	39	π/4-DQPSK	2DH1/2DH3/2DH5				
			8-DPSK	3DH1/3DH3/3DH5				
	A)/AH ABI E	TEOTED		DAOLET				
MODE	AVAILABLE	TESTED	MODULATION	PACKET				
	TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
				B.1.5				
Bluetooth	0 to 78	39	GFSK	DH5				
	_		EST (ABOVE 1 GHz)	T				
Bluetooth	0 to 78	0,39,78	GFSK/π/4-DQPSK	DH5/2DH5				

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

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

6.2 Conducted Measurement

	Conducted Emission Test Site: Conducted D						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/03/2024	04/02/2025		
Bluetooth Test Set	R&S	CBT	101140	05/18/2024	05/17/2025		
Power Meter	Anritsu	ML2496A	1512003	09/08/2023	09/07/2024		
Power Sensor	Anritsu	MA2411B	1339378	09/08/2023	09/07/2024		
Power Sensor	Anritsu	MA2411B	1339379	09/08/2023	09/07/2024		
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R		
Attenuator	Woken	WATT-218FS-10	RF22	11/15/2023	11/14/2024		
Attenuator	Woken	WATT-218FS-10	RF23	11/15/2023	11/14/2024		
Attenuator	Woken	WATT-218FS-10	RF24	11/15/2023	11/14/2024		
DC Block	MITEQ	W70289-5108	RF159	11/15/2023	11/14/2024		
Splitter	RF-LAMBDA	RFLT2W1G18G	18112200217	11/15/2023	11/14/2024		

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6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC G						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Broadband Antenna	SCHWARZBECK	VULB 9168	1208	07/21/2023	07/20/2024		
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024		
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025		
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024		
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025		
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/17/2023	07/16/2024		
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R		
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024		
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025		
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	05/08/2024	05/07/2025		
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM-8000-5000- 2000	210216 ` 210217 ` 210218	03/13/2024	03/12/2025		
Coaxial Cable	EMC Instruments	EMC104-SM-SM- 8000-5000-5000	210219 ` 210220 ` 210221	03/13/2024	03/12/2025		

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

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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	

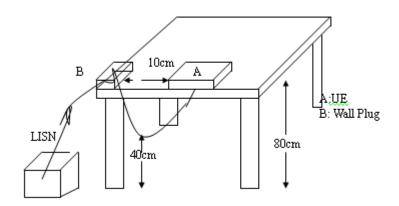
Note

- 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 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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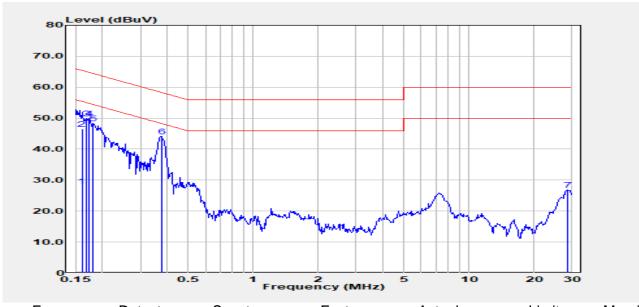
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2405001395E2 Test Site :Conduction C

Test Mode :BT Test Date :2024-05-29

Power :120V/60Hz Temp./Humi. :22.8°C/56%

Probe :L1 Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.161	Average	17.40	10.69	28.09	55.44	-27.35
0.161	QP	35.80	10.69	46.49	65.44	-18.95
0.168	Peak	39.32	10.69	50.00	65.08	-15.08
0.173	Peak	39.24	10.68	49.92	64.80	-14.88
0.181	Peak	37.55	10.68	48.23	64.45	-16.22
0.375	Peak	33.51	10.65	44.15	58.38	-14.23
28.753	Peak	15.60	11.34	26.94	60.00	-33.06

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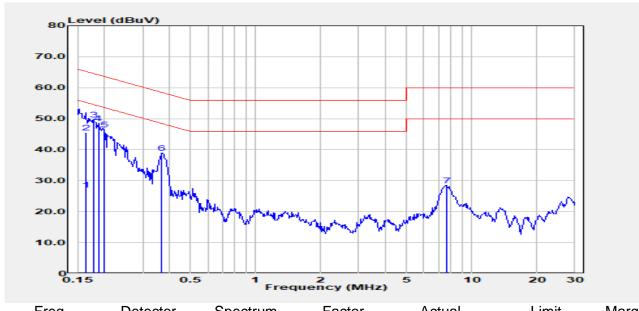


Report Number :TERF2405001395E2 **Test Site** :Conduction C

Test Mode :BT **Test Date** :2024-05-29

Power :120V/60Hz Temp./Humi. :22.8°C/56%

Probe :N Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.163	Average	16.40	10.67	27.07	55.29	-28.22
0.163	QP	34.90	10.67	45.57	65.29	-19.72
0.178	Peak	39.09	10.67	49.76	64.59	-14.83
0.187	Peak	37.79	10.67	48.46	64.17	-15.71
0.199	Peak	35.78	10.67	46.45	63.67	-17.23
0.369	Peak	28.35	10.63	38.98	58.52	-19.55
7.646	Peak	17.45	11.00	28.45	60.00	-31.55

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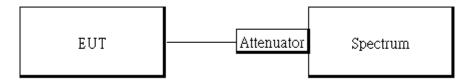


8 FREQUENCY SEPARATION

8.1 Standard Applicable

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

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 C63.10:2013.
- 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.

8.4 Measurement Result

Channel separation (MHz)	Limit	Result
1	≥25 kHz or 2/3 times 20dB bandwidth	PASS

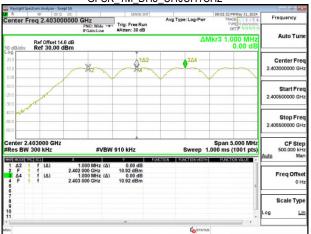
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GFSK_1M_DH5_CH0CH1CH2



GFSK 1M DH5 CH38CH39CH40



GFSK_1M_DH5_CH76CH77CH78



π/4DQPSK 2M DH5 CH0CH1CH2



π/4DQPSK_2M_DH5_CH38CH39CH40



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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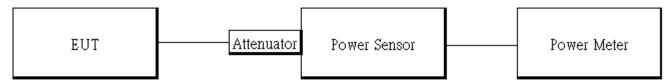
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PEAK OUTPUT POWER MEASUREMENT

9.1 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.

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 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

Duty Cycle		
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
DH5	77.20	1.12
2DH5	76.80	1.15
3DH5	77.20	1.12

1M BR mode (Peak):

СН	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	11.03	12.677	1000
Mid	2441	default	10.88	12.246	1000
High	2480	default	10.59	11.455	1000

1M BR mode (Average):

IIII DIN IIIOGN	, (Attorage).				
СН	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	10.89	12.285	1000
Mid	2441	default	10.77	11.950	1000
High	2480	default	10.47	11.153	1000

2M EDR mode (Peak):

СН	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	10.04	10.093	125
Mid	2441	default	9.88	9.727	125
High	2480	default	9.55	9.016	125

2M EDR mode (Average):

СН	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	8.13	6.496	125
Mid	2441	default	7.98	6.275	125
High	2480	default	7.63	5.789	125

3M EDR mode (Peak):

СН	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	10.00	10.000	125
Mid	2441	default	9.79	9.528	125
High	2480	default	9.42	8.750	125

3M EDR mode (Average):

СН	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	default	7.75	5.962	125
Mid	2441	default	7.61	5.773	125
High	2480	default	7.26	5.326	125

*Note: Avg. output power has been calculated with duty factor.

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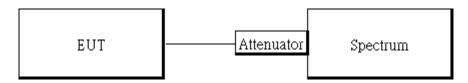
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10 EMISSION BANDWIDTH MEASUREMENT

10.1 Standard Applicable

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

10.2 Test Setup



10.3 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	0.9640	0.64
Mid	0.9646	0.64
High	0.9646	0.64

π/4-DQPSK

СН	20 dB BW	2/3 BW
СП	(MHz)	(MHz)
Low	1.3220	0.88
Mid	1.3230	0.88
High	1.3220	0.88

8-DPSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	1.3100	0.87
Mid	1.3110	0.87
High	1.3110	0.87

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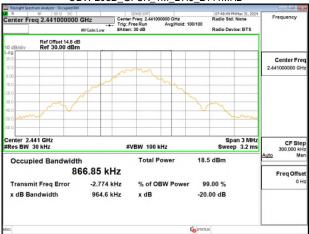


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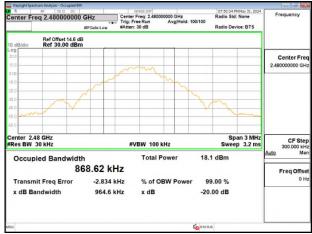
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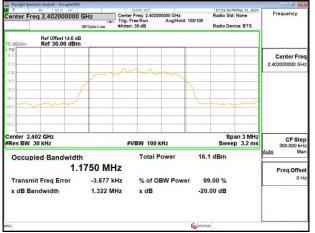
OBW 20dB GFSK 1M DH5 2441MHz



OBW 20dB GFSK 1M DH5 2480MHz



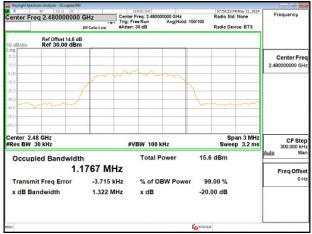
OBW 20dB π/4DQPSK 2M DH5 2402MHz



OBW 20dB π/4DQPSK 2M DH5 2441MHz



OBW 20dB π/4DQPSK 2M DH5 2480MHz



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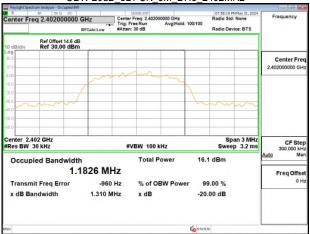
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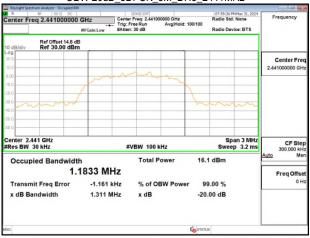


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OBW 20dB 8DPSK 3M DH5 2402MHz



OBW 20dB 8DPSK 3M DH5 2441MHz



OBW 20dB_8DPSK_3M_DH5_2480MHz



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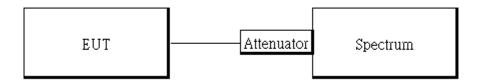
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11 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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).

11.2 Test Setup



11.3 **Measurement Procedure**

11.3.1 **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.

11.3.2 **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.

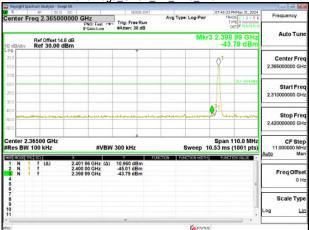
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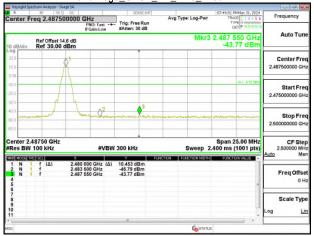


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Band Edge_π/4DQPSK_2M_DH5_2402MHz



Band Edge π/4DQPSK 2M DH5 2480MHz



Hopping Band Edge GFSK 1M DH5 2402MHz



Hopping Band Edge_GFSK_1M_DH5_2480MHz



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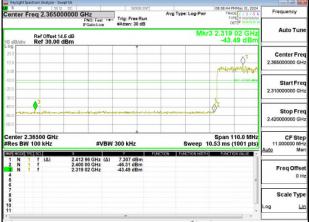
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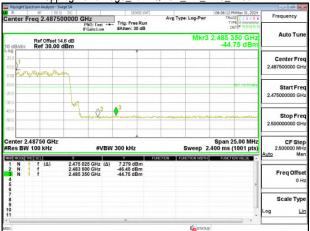


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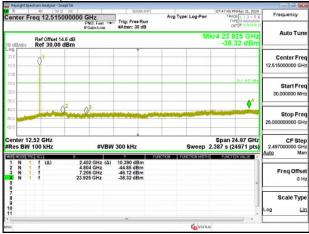




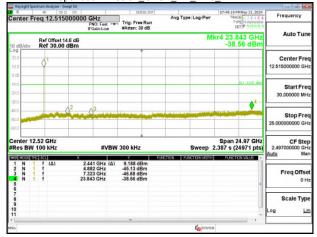




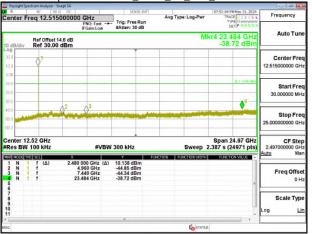
Spurious Emission GFSK 1M DH5 2402MHz



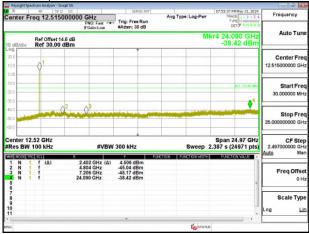
Spurious Emission GFSK 1M DH5 2441MHz



Spurious Emission GFSK 1M DH5 2480MHz



Spurious Emission π/4DQPSK 2M DH5 2402MHz



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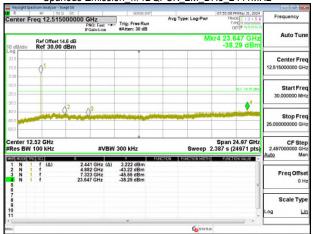
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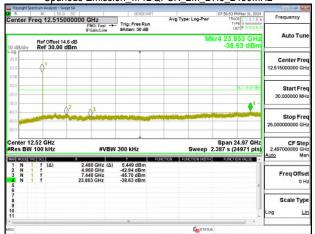


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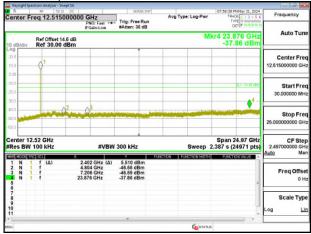




Spurious Emission π/4DQPSK 2M DH5 2480MHz



Spurious Emission_8DPSK_3M_DH5_2402MHz



Spurious Emission 8DPSK 3M DH5 2441MHz



Spurious Emission 8DPSK 3M DH5 2480MHz



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12 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

12.1 Standard Applicable

12.1.1 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.

12.1.2 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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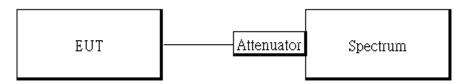


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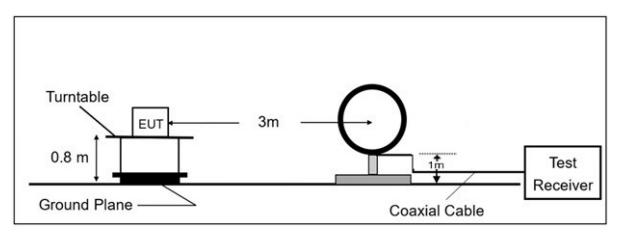
Test Setup

Duty Cycle Correction Factor 12.2.1

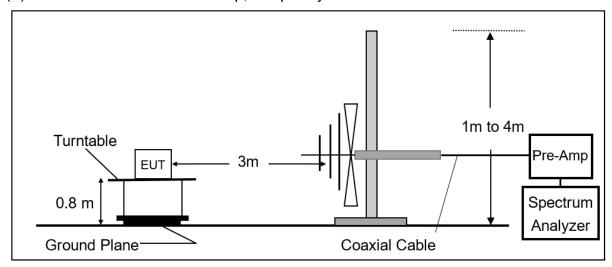


12.2.2 **Radiated Emission**

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



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



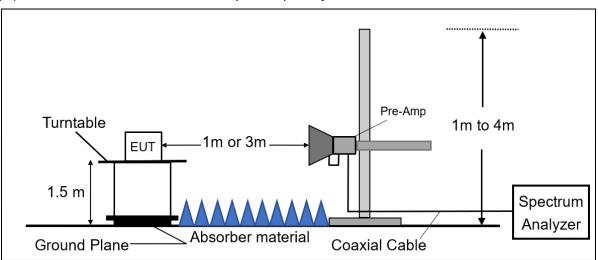
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



12.3 **Measurement Procedure**

12.3.1 **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.

12.3.2 Radiated Emission

- 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.

12.4 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 $FS(dB\mu V/m) = SPA$. Reading level(dB μV) + 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)

12.5 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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12.6 **Measurement Result:**

12.6.1 **Duty Cycle Correction Factor**

BR

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

EDR

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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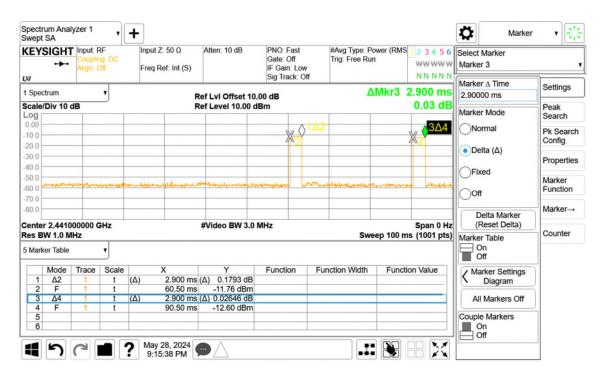
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12.6.2 **Duty Cycle test plot**

BR



EDR



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12.6.3 Bandedge Result

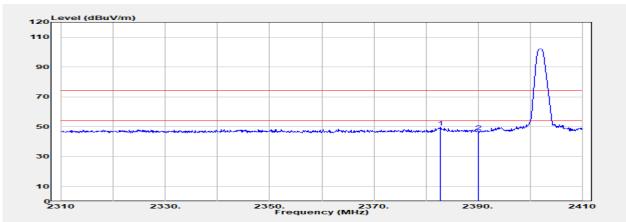
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Operation Mode:BR Test Date :2024-05-28

Temp./Humi. :24.4°C/58% Test Frequency :2402 MHz

Test Mode Antenna Pol. :Vertical :Bandedge

EUT Pol :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dΒμV	dB	dBμV/m	dBμV/m	dB
2382.800	Peak	53.05	-3.26	49.78	74.00	-24.22
2390.000	Peak	50.05	-3.28	46.78	74.00	-27.22
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)
2382.800	Average	49.78	-24.73	25.05	54.00	-28.95
2390.000	Average	46.78	-24.73	22.05	54.00	-31.95

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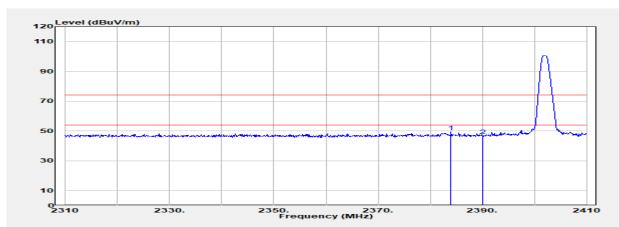
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Operation Mode :BR Test Date :2024-05-28

Test Frequency :2402 MHz Temp./Humi. :24.4℃/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2384.000	Peak	52.65	-3.27	49.39	74.00	-24.61
2390.000	Peak	50.05	-3.28	46.77	74.00	-27.23
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)
2384.000	Average	49.39	-24.73	24.66	54.00	-29.34
2390.000	Average	46.77	-24.73	22.04	54.00	-31.96

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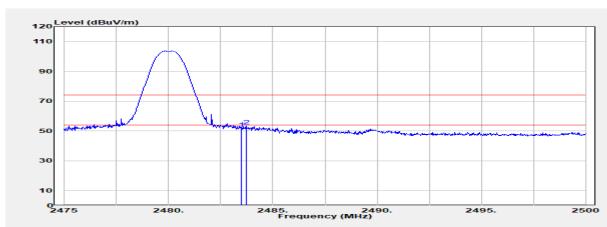
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Operation Mode: BR Test Date :2024-05-28

Temp./Humi. :24.4°C/58% Test Frequency :2480 MHz

Test Mode :Bandedge Antenna Pol. :Vertical

:Temo Chen **EUT Pol** :E2 Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	55.04	-3.31	51.73	74.00	-22.27
2483.725	Peak	56.71	-3.31	53.40	74.00	-20.60
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	51.73	-24.73	27.00	54.00	-27.00
2483.725	Average	53.40	-24.73	28.67	54.00	-25.33

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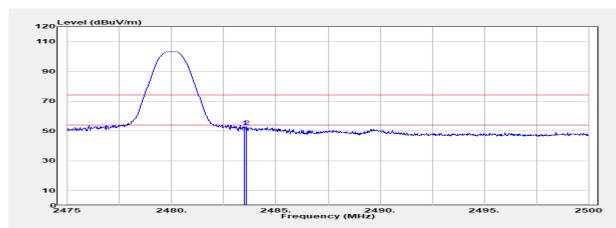
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Test Date :2024-05-28

Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	56.10	-3.31	52.78	74.00	-21.22
2483.600	Peak	56.20	-3.31	52.88	74.00	-21.12
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	52.78	-24.73	28.05	54.00	-25.95
2483.600	Average	52.88	-24.73	28.15	54.00	-25.85

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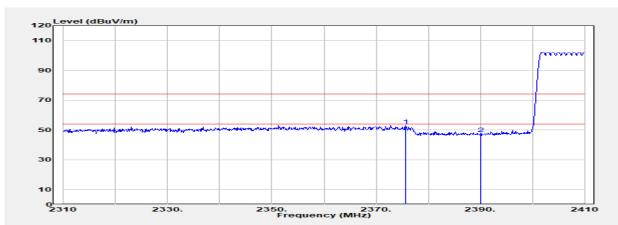
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Hopping Test Date :2024-05-28 Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2375.600	Peak	56.41	-3.25	53.16	74.00	-20.84
2390.000	Peak	50.88	-3.28	47.61	74.00	-26.39
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
N 41 1—	Mode	FS (alDer) (/as)	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	
2375.600	Average	53.16	-24.73	28.43	54.00	-25.57

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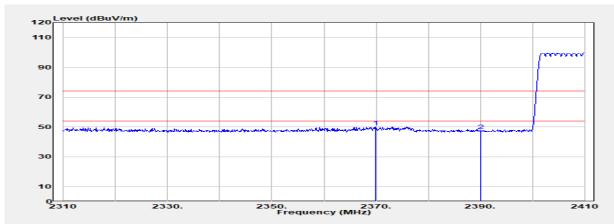
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Hopping Test Date :2024-05-28
Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%
Test Mode :Bandedge Antenna Pol. :Horizontal
EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2369.900	Peak	53.33	-3.24	50.09	74.00	-23.91
2390.000	Peak	50.77	-3.28	47.49	74.00	-26.51
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)
2369.900	Average	50.09	-24.73	25.36	54.00	-28.64
2390.000	Average	47.49	-24.73	22.76	54.00	-31.24

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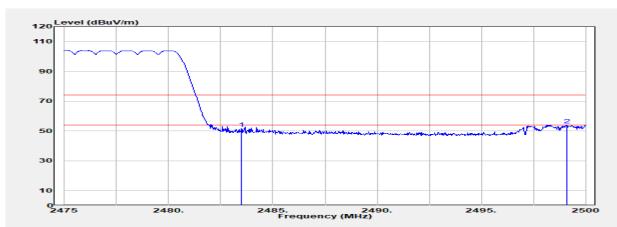
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Report Number :TERF2405001395E2 **Test Site** :SAC G Chamber

Operation Mode :BR Hopping Test Date :2024-05-28 Temp./Humi. :24.4°C/58% Test Frequency :2480 MHz

Test Mode :Bandedge Antenna Pol. :Vertical

Engineer **EUT Pol** :E2 Plane :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.96	-3.31	51.65	74.00	-22.35
2499.125	Peak	57.36	-3.26	54.10	74.00	-19.90
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	51.65	-24.73	26.92	54.00	-27.08
2499.125	Average	54.10	-24.73	29.37	54.00	-24.63

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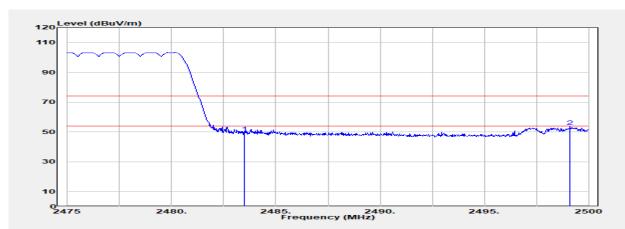
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode:BR HoppingTest Date:2024-05-28Test Frequency:2480 MHzTemp./Humi.:24.4°C/58%Test Mode:BandedgeAntenna Pol.:HorizontalEUT Pol:E2 PlaneEngineer:Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	52.63	-3.31	49.31	74.00	-24.69
2499.125	Peak	56.95	-3.26	53.69	74.00	-20.31
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	49.31	-24.73	24.58	54.00	-29.42
2499.125	Average	53.69	-24.73	28.96	54.00	-25.04

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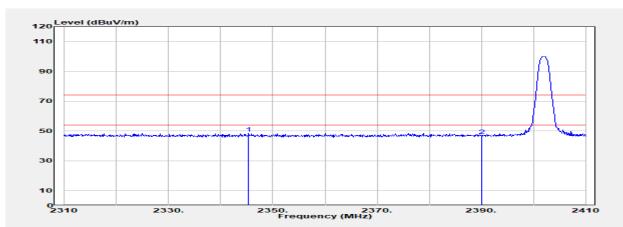
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28 Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2345.300	Peak	51.72	-3.21	48.51	74.00	-25.49
2390.000	Peak	50.13	-3.28	46.86	74.00	-27.14
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)
2345.300	Average	48.51	-24.73	23.78	54.00	-30.22
2390.000	Average	46.86	-24.73	22.13	54.00	-31.87

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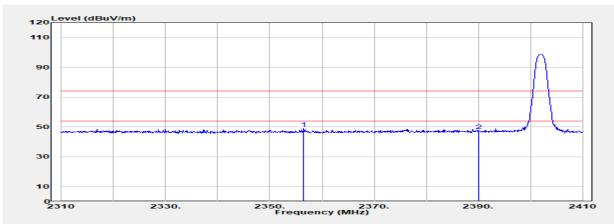
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Report Number :TERF2405001395E2 **Test Site** :SAC G Chamber

Operation Mode: EDR 2M Test Date :2024-05-28 Temp./Humi. :24.4°C/58% Test Frequency :2402 MHz Test Mode :Bandedge Antenna Pol. :Horizontal **EUT Pol** :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dΒμV	dB	dBμV/m	dBμV/m	dB
2356.500	Peak	52.25	-3.22	49.02	74.00	-24.98
2390.000	Peak	50.62	-3.28	47.35	74.00	-26.65
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)
2356.500	Average	49.02	-24.73	24.29	54.00	-29.71
2390.000	Average	47.35	-24.73	22.62	54.00	-31.38

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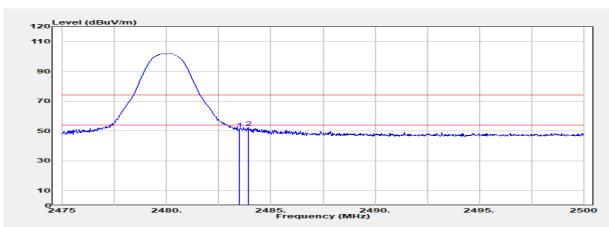
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28 Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.73	-3.31	51.41	74.00	-22.59
2483.900	Peak	55.59	-3.31	52.28	74.00	-21.72
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)
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2483.500	Average	51.41	-24.73	26.68	54.00	-27.32
2483.900	Average	52.28	-24.73	27.55	54.00	-26.45

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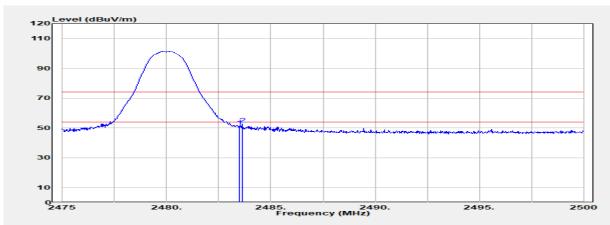
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode:EDR 2MTest Date:2024-05-28Test Frequency:2480 MHzTemp./Humi.:24.4℃/58%Test Mode:BandedgeAntenna Pol.:HorizontalEUT Pol:E2 PlaneEngineer:Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.32	-3.31	51.00	74.00	-23.00
2483.625	Peak	55.86	-3.31	52.55	74.00	-21.45
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	51.00	-24.73	26.27	54.00	-27.73
2483.625	Average	52.55	-24.73	27.82	54.00	-26.18

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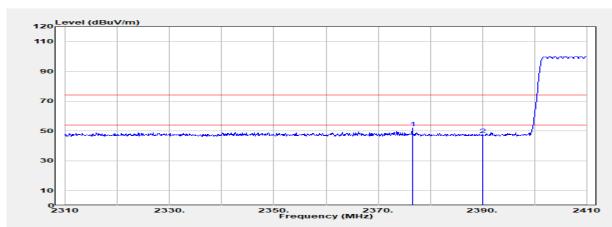
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Operation Mode :EDR 2M Hopping Test Date :2024-05-28

Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2376.600	Peak	55.13	-3.25	51.88	74.00	-22.12
2390.000	Peak	50.61	-3.28	47.33	74.00	-26.67
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)
2376.600	Average	51.88	-24.73	27.15	54.00	-26.85
2390.000	Average	47.33	-24.73	22.60	54.00	-31.40

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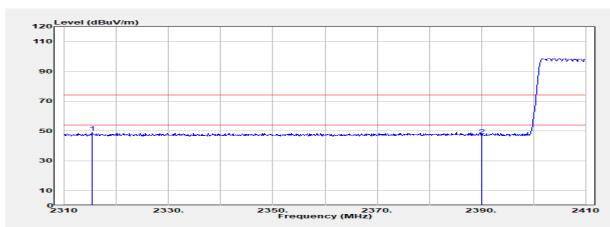
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Operation Mode: EDR 2M Hopping Test Date :2024-05-28

Temp./Humi. :24.4°C/58% Test Frequency :2402 MHz

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2315.300	Peak	52.13	-3.16	48.96	74.00	-25.04
2390.000	Peak	50.46	-3.28	47.18	74.00	-26.82
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)
						_
2315.300	Average	48.96	-24.73	24.23	54.00	-29.77
2390.000	Average	47.18	-24.73	22.45	54.00	-31.55

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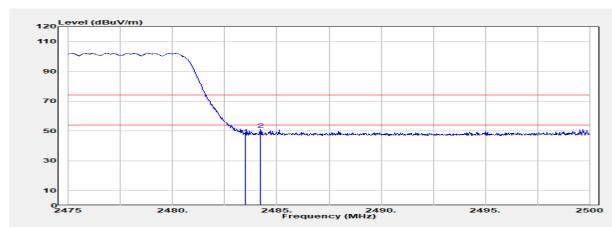
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Hopping Test Date :2024-05-28

Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	50.43	-3.31	47.12	74.00	-26.88
2484.200	Peak	54.49	-3.31	51.18	74.00	-22.82
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	47.12	-24.73	22.39	54.00	-31.61
2484.200	Average	51.18	-24.73	26.45	54.00	-27.55

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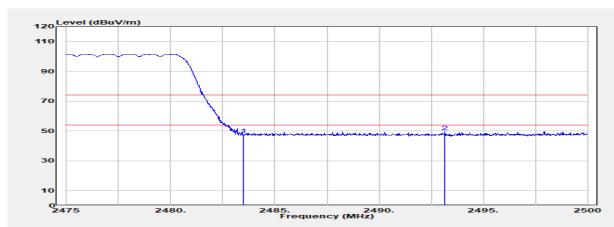
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Operation Mode :EDR 2M Hopping Test Date :2024-05-28

Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	50.69	-3.31	47.38	74.00	-26.62
2493.150	Peak	52.77	-3.28	49.49	74.00	-24.51
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	47.38	-24.73	22.65	54.00	-31.35
2493.150	Average	49.49	-24.73	24.76	54.00	-29.24

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12.6.4 Radiated Spurious Emission

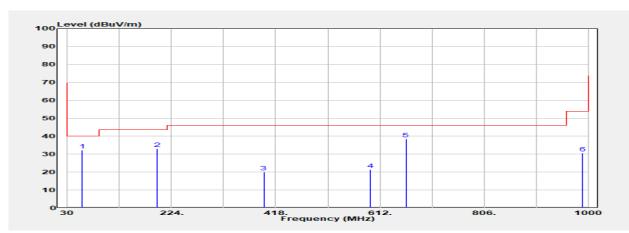
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Test Date :2024-05-28

Test Frequency :2441 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
58.130	Peak	45.21	-12.95	32.26	40.00	-7.74
197.810	Peak	48.77	-15.69	33.08	43.50	-10.42
395.690	QP	29.30	-9.30	20.00	46.00	-26.00
593.570	QP	26.10	-4.65	21.45	46.00	-24.55
660.500	Peak	42.30	-3.88	38.42	46.00	-7.58
990.300	QP	29.70	0.80	30.50	54.00	-23.50

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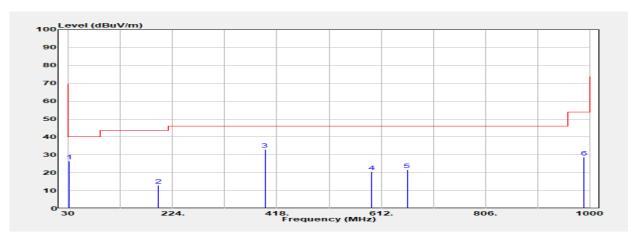
Report Number :TERF2405001395E2 **Test Site** :SAC G Chamber

Operation Mode: BR Test Date :2024-05-28

Temp./Humi. :24.4°C/58% Test Frequency :2441 MHz

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
31.940	Peak	41.06	-14.37	26.68	40.00	-13.32
197.810	QP	28.60	-15.69	12.91	43.50	-30.59
395.690	QP	42.50	-9.30	33.20	46.00	-12.80
593.570	QP	25.30	-4.65	20.65	46.00	-25.35
660.500	QP	25.60	-3.88	21.72	46.00	-24.28
990.300	QP	27.90	0.80	28.70	54.00	-25.30

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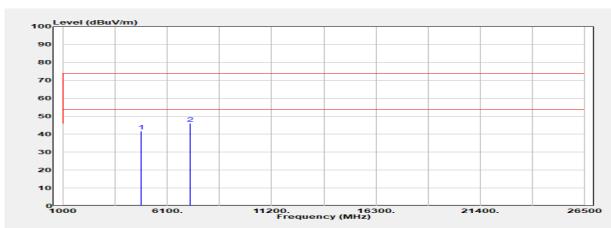
Report Number :TERF2405001395E2 **Test Site** :SAC G Chamber

Operation Mode: BR Test Date :2024-05-28

Temp./Humi. :24.4°C/58% Test Frequency :2402 MHz

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	38.38	3.33	41.71	74.00	-32.29
7206.000	Peak	36.83	9.17	46.00	74.00	-28.00
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	41.71	-24.73	16.98	54.00	-37.02
7206.000	Average	46.00	-24.73	21.27	54.00	-32.73

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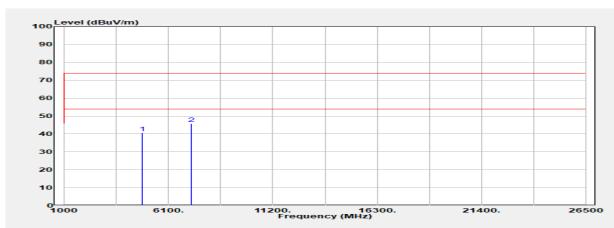
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Test Date :2024-05-28

Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	37.22	3.33	40.55	74.00	-33.45
7206.000	Peak	36.74	9.17	45.91	74.00	-28.09
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	40.55	-24.73	15.82	54.00	-38.18
7206.000	Average	45.91	-24.73	21.18	54.00	-32.82

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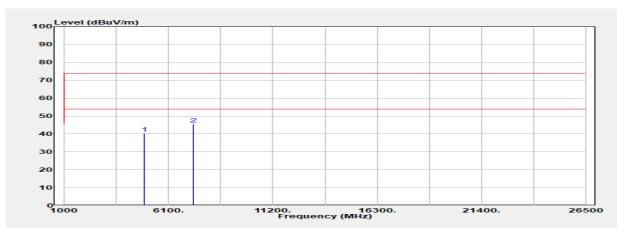
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Operation Mode :BR Test Date :2024-05-28

Test Frequency :2441 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	36.84	3.52	40.36	74.00	-33.64
7323.000	Peak	35.75	9.80	45.55	74.00	-28.45
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)
4882.000	Average	40.36	-24.73	15.63	54.00	-38.37
7323.000	Average	45.55	-24.73	20.82	54.00	-33.18

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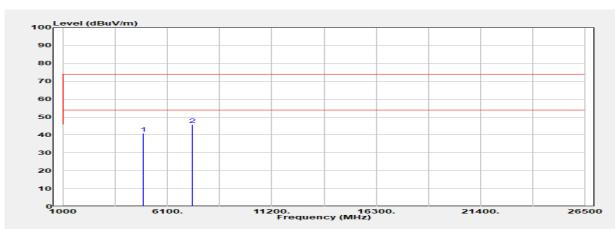
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Test Date :2024-05-28

Test Frequency :2441 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dΒμV	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	37.30	3.52	40.83	74.00	-33.17
7323.000	Peak	36.09	9.80	45.88	74.00	-28.12
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)
4882.000	Average	40.83	-24.73	16.10	54.00	-37.90
7323.000	Average	45.88	-24.73	21.15	54.00	-32.85

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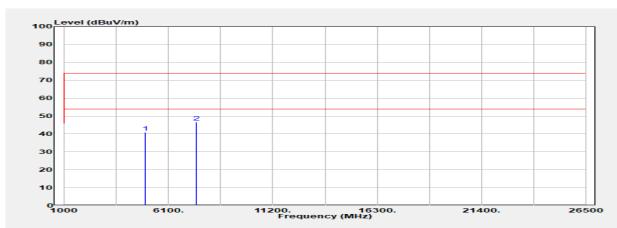
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Test Date :2024-05-28

Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	37.18	3.86	41.04	74.00	-32.96
7440.000	Peak	36.52	10.14	46.66	74.00	-27.34
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)
4960.000	Average	41.04	-24.73	16.31	54.00	-37.69
7440.000	Average	46.66	-24.73	21.93	54.00	-32.07

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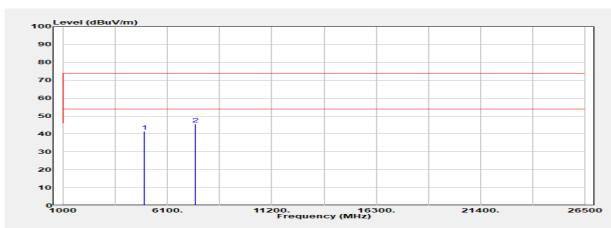
Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :BR Test Date :2024-05-28

Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	37.64	3.86	41.49	74.00	-32.51
7440.000	Peak	35.36	10.14	45.49	74.00	-28.51
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)
4960.000	Average	41.49	-24.73	16.76	54.00	-37.24
7440.000	Average	45.49	-24.73	20.76	54.00	-33.24

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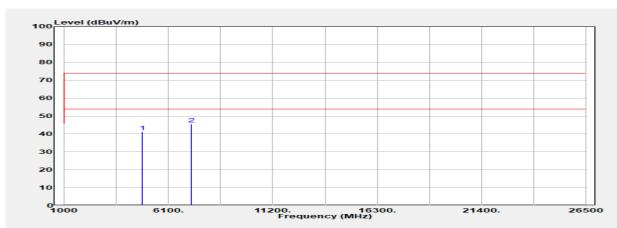
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28 Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	37.94	3.33	41.27	74.00	-32.73
7206.000	Peak	36.30	9.17	45.47	74.00	-28.53
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	41.27	-24.73	16.54	54.00	-37.46
7206.000	Average	45.47	-24.73	20.74	54.00	-33.26

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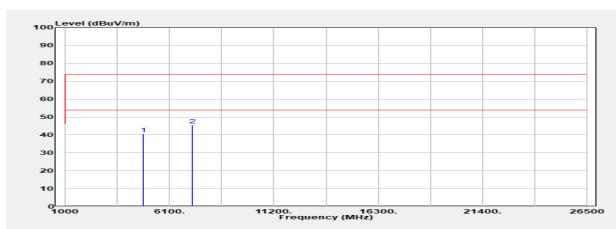
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28
Test Frequency :2402 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	37.42	3.33	40.75	74.00	-33.25
7206.000	Peak	36.33	9.17	45.50	74.00	-28.50
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	40.75	-24.73	16.02	54.00	-37.98
7206.000	Average	45.50	-24.73	20.77	54.00	-33.23

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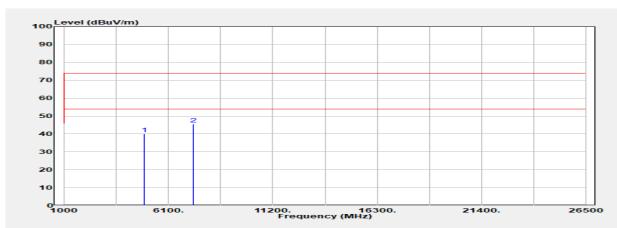
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Report Number :TERF2405001395E2 **Test Site** :SAC G Chamber

Operation Mode: EDR 2M Test Date :2024-05-28 Temp./Humi. :24.4°C/58% Test Frequency :2441 MHz

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	36.60	3.52	40.13	74.00	-33.87
7323.000	Peak	35.69	9.80	45.48	74.00	-28.52
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)
4882.000	Average	40.13	-24.73	15.40	54.00	-38.60
7323.000	Average	45.48	-24.73	20.75	54.00	-33.25

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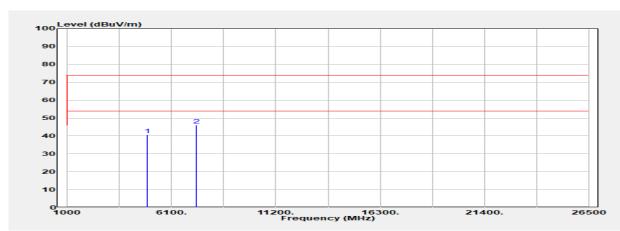
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28
Test Frequency :2441 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dΒμV	dB	dBμV/m	dBμV/m	dB
4882.000	Peak	37.11	3.52	40.63	74.00	-33.37
7323.000	Peak	36.41	9.80	46.20	74.00	-27.80
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)
4882.000	Average	40.63	-24.73	15.90	54.00	-38.10
7323.000	Average	46.20	-24.73	21.47	54.00	-32.53

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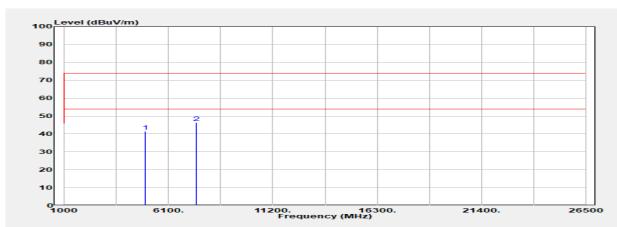
Page: 66 of 74

Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28
Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	37.51	3.86	41.37	74.00	-32.63
7440.000	Peak	36.19	10.14	46.32	74.00	-27.68
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)
4960.000	Average	41.37	-24.73	16.64	54.00	-37.36
7440.000	Average	46.32	-24.73	21.59	54.00	-32.41

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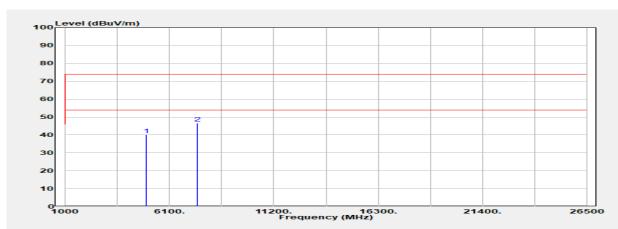
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Report Number :TERF2405001395E2 Test Site :SAC G Chamber

Operation Mode :EDR 2M Test Date :2024-05-28 Test Frequency :2480 MHz Temp./Humi. :24.4°C/58%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBμV/m	dBμV/m	dB
4960.000	Peak	36.27	3.86	40.13	74.00	-33.87
7440.000	Peak	36.48	10.14	46.61	74.00	-27.39
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)
4960.000	Average	40.13	-24.73	15.40	54.00	-38.60
7440.000	Average	46.61	-24.73	21.88	54.00	-32.12

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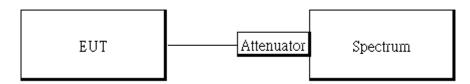
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13 NUMBER OF HOPPING FREQUENCY

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	

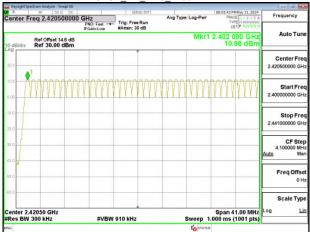
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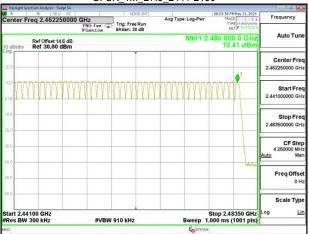


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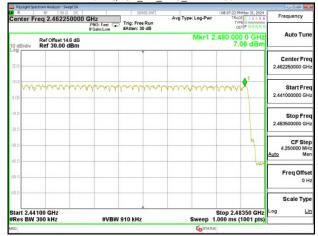
GFSK_1M_DH5_2441-2480



π/4DQPSK 2M DH5 2400-2441



π/4DQPSK 2M DH5 2441-2480



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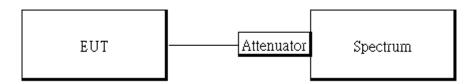
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14 TIME OF OCCUPANCY (DWELL TIME)

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	400
Mid	DH3	264.00	400
	DH5	308.80	400

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	2DH1	124.80	400
Mid	2DH3	264.00	400
	2DH5	307.20	400

8-DPSK (3Mbps)

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

GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.385 *	(1600/2/79)	*	31.6 =	123.20 (ms)
	DH3 time slot	=	1.650 *	(1600/4/79)	*	31.6 =	264.00 (ms)
	DH5 time slot	=	2.895 *	(1600/6/79)	*	31.6 =	308.80 (ms)

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

CH Mid	2DH1 time slot	=	0.390 *	(1600/2/79)	*	31.6 =	124.80 (ms)
	2DH3 time slot	=	1.650 *	(1600/4/79)	*	31.6 =	264.00 (ms)
	2DH5 time slot	=	2.880 *	(1600/6/79)	*	31.6 =	307.20 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.385 *	(1600/2/79)	*	31.6	=	123.20 (ms)
	3DH3 time slot	=	1.640 *	(1600/4/79)	*	31.6	=	262.40 (ms)
	3DH5 time slot	=	2.895 *	(1600/6/79)	*	31.6	=	308.80 (ms)

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

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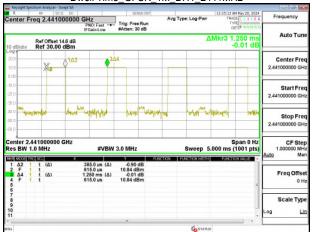
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Dwell Time GFSK 1M DH3 2441MHz



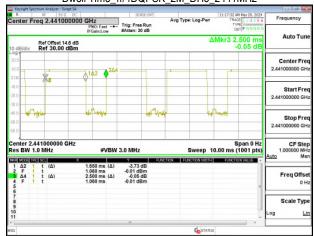
Dwell Time_GFSK_1M_DH5_2441MHz



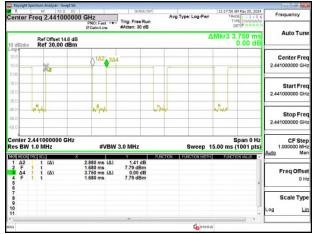
Dwell Time_π/4DQPSK_2M_DH1_2441MHz



Dwell Time π/4DQPSK 2M DH3 2441MHz



Dwell Time_π/4DQPSK_2M_DH5_2441MHz



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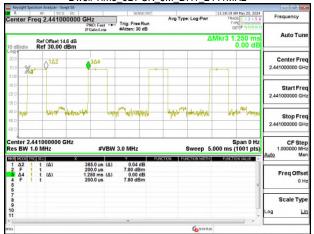
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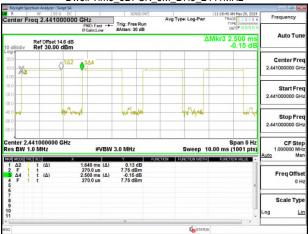


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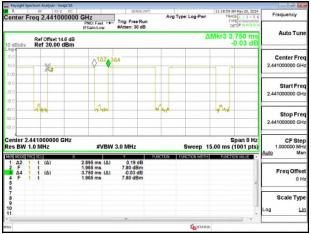
Dwell Time 8DPSK 3M DH1 2441MHz



Dwell Time 8DPSK 3M DH3 2441MHz



Dwell Time 8DPSK 3M DH5 2441MHz



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15 ANTENNA REQUIREMENT

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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