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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





FCC Applicant: Quanta Computer Inc.

No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Tai-

wan

FCC Manufacturer: Quanta Computer Inc.

No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Tai-

wan

Product Name: QOCA Portable ECG Monitoring Device

Brand Name: Quanta, QOCA

Model No.: ecg901

Report Number: TERF2306001352E2

FCC ID HFSC₁₉

Date of EUT Received: June 01, 2023

Date of Test: June 01, 2023~September 19, 2023

Issue Date: January 30, 2024

Approved By___ALW

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		
TERF2306001352E2	00	Original.	October 24, 2023	Kate Lai			
TERF2306001352E2	01	Revise: 2.6 Control Unit(s) 7.5 Measurement Result 8.5.1 Peak & Avg 10.4 Measurement Result	December 25, 2023	Kate Lai	*		
TERF2306001352E2	02	Revise: 1.3 Antenna Designation	January 09, 2024	Kate Lai	*		
TERF2306001352E2	03	Revise: 5 MEASUREMENT UNCERTAINTY	January 30, 2024	Kate Lai	*		

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:	QOCA Portable ECG Monitoring Device
Brand Name:	Quanta, QOCA
Model No.:	ecg901
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	CI9XT230400L
Power Supply:	DC 5V (From Adapter AC 120 V, 60Hz) or DC 3.8V (Battery) DC 5V (From NB USB)
Test Software (Name/Version)	STM32CubeMonitor-RF/2.10.0

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 2.42 dBm BLE 2M: 1.97 dBm

1.3 **Antenna Designation**

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
FPC Antenna	2402 – 2480	-0.21

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

Test Facility 1.5

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB
		SAC 1]	
		SAC 2		
		SAC 3		
	No 404 Modern Pool Nove Tringi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0027	TW3702
	Industrial Park, Wuku District, New	Conducted 2	1 000027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	TW0028	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B		
	raoyuan ony, raiwan 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 are no special accessories used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

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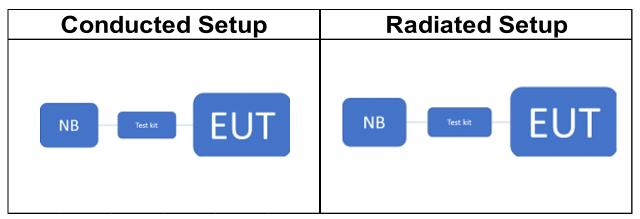
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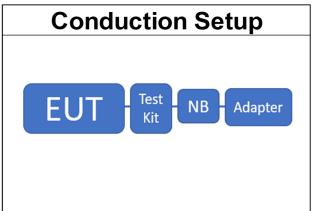
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2.5 **Test Configuration**





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.	
Testkit	Waveshare	FT232	N/A	N/A	N/A	
NB Adapter	Lenovo	ADLX65YLC3A	8SSA10M13945L1CZ88	N/A	N/A	
Notebook	Lenovo	L480	P0002332	N/A	N/A	

	Conducted Emission Test Site: Conducted F						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Notebook	Lenovo	L480	P0002332	N/A	N/A		
Test Kit	Oneping	OP-1010-3	N/A	N/A	N/A		

Radiated Emission Test Site: SAC G						
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.						
Testkit Waveshare FT232 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) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.247(d) §15.205 §15.209	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Bands	Compliant

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DESCRIPTION OF TEST MODES

4.1 **Operating Frequencies**

	====:::::::::::::::::::::::::::::::::::		·		
ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
0	2402 MHz	14	2430 MHz	28	2458 MHz
1	2404 MHz	15	2432 MHz	29	2460 MHz
2	2406 MHz	16	2434 MHz	30	2462 MHz
3	2408 MHz	17	2436 MHz	31	2464 MHz
4	2410 MHz	18	2438 MHz	32	2466 MHz
5	2412 MHz	19	2440 MHz	33	2468 MHz
6	2414 MHz	20	2442 MHz	34	2470 MHz
7	2416MHz	21	2444 MHz	35	2472 MHz
8	2418 MHz	22	2446 MHz	36	2474 MHz
9	2420 MHz	23	2448 MHz	37	2476 MHz
10	2422 MHz	24	2450 MHz	38	2478 MHz
11	2424 MHz	25	2452 MHz	39	2480 MHz
12	2426 MHz	26	2454 MHz	40	2480 MHz
13	2428 MHz	27	2456 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4. Investigation has been done on all the possible configurations for searching the worst case.

case.						
CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		
Bluetooth LE	0 to 39	0,20,39	GFSK	2		
	TRANSMIT RAD	IATED EMISSION T	EST (BELOW 1 GH	lz)		
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	20	GFSK	1		
Bluetooth LE	0 to 39	20	GFSK	2		
	TRANSMIT RAD	IATED EMISSION T	EST (ABOVE 1 GH	z)		
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		
Bluetooth LE	0 to 39	0,20,39	GFSK	2		

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MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	ty
AC Power Line Conducted Emission	+/-	2.32	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Conducted emission measurement	+/-	1.68	dB
Peak Power Density	+/-	2.16	dB
Temperature	+/-	0.7	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
	+/-	2.8	dB	9kHz~30MHz	
Delevization, Vertical	+/-	4.82	dB	30MHz - 1000MHz	
Polarization: Vertical	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	dB	18GHz - 40GHz	
	+/-	2.8	dB	9kHz~30MHz	
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz	
	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	dB	18GHz - 40GHz	

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
LISN	SCHWARZBECK Mess-	NSLK8127	973	04/20/2023	04/19/2024	
EMI Test Receiver	R&S	ESCI	101342	04/25/2023	04/24/2024	
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024	
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024	
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 F						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/15/2023	06/14/2024	
Power Meter	Anritsu	ML2496A	1804002	04/26/2023	04/25/2024	
Power Sensor	Anritsu	MA2411B	1726105	04/26/2023	04/25/2024	
Power Sensor	Anritsu	MA2411B	1726106	04/26/2023	04/25/2024	
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R	
Attenuator	Woken	WATT-218FS-10	RF20	11/16/2022	11/15/2023	
Attenuator	Woken	WATT-218FS-10	RF25	11/16/2022	11/15/2023	

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	1206	01/17/2023	01/16/2024	
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023	
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024	
Loop Antenna	ETS.LINDGREN	6502	14303	05/23/2023	05/22/2024	
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024	
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2023	07/06/2024	
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023	
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R	
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023	
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024	
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024	
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM-8000-5000- 2000	210216 · 210217 · 210218	03/15/2023	03/14/2024	
Coaxial Cable	EMC Instruments	EMC104-SM-SM- 8000-5000-5000	210219 \ 210220 \ \ 210221	03/15/2023	03/14/2024	
Coaxial Cable	EMC Instruments	EMC105-NM-NM- 5000-15000	210224 ` 210306	03/15/2023	03/14/2024	

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

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CONDUCTED EMISSION TEST

7.1 Standard Applicable:

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

Frequency range	Limits (dBµV)		
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	

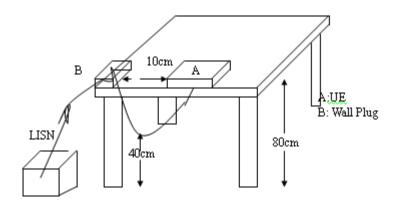
Note

- 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**



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7.4 **Measurement Procedure:**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 **Measurement Result:**

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

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

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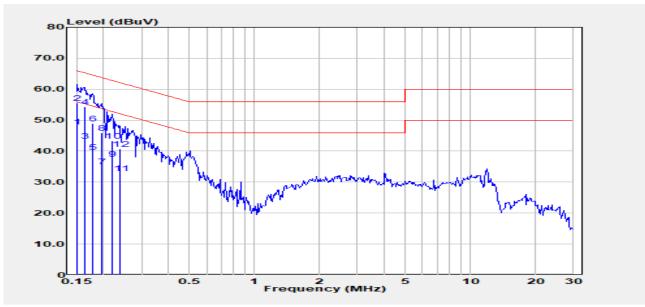
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2306001352E2 Test Site :Conduction C
Test Mode :BLE 1M Test Date :2023-06-30
Power :120V/60Hz Temp./Humi. :23.3℃/66%
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
0.152	Average	37.50	10.32	47.82	55.91	-8.09
0.152	QP	45.30	10.32	55.62	65.91	-10.29
0.163	Average	33.00	10.32	43.32	55.30	-11.98
0.163	QP	44.10	10.32	54.42	65.30	-10.88
0.178	Average	29.30	10.31	39.61	54.59	-14.98
0.178	QP	38.60	10.31	48.91	64.59	-15.68
0.198	Average	24.70	10.31	35.01	53.71	-18.70
0.198	QP	35.60	10.31	45.91	63.71	-17.80
0.220	Average	27.20	10.31	37.51	52.83	-15.32
0.220	QP	33.00	10.31	43.31	62.83	-19.52
0.239	Average	22.60	10.31	32.91	52.13	-19.21
0.239	QP	30.40	10.31	40.71	62.13	-21.41

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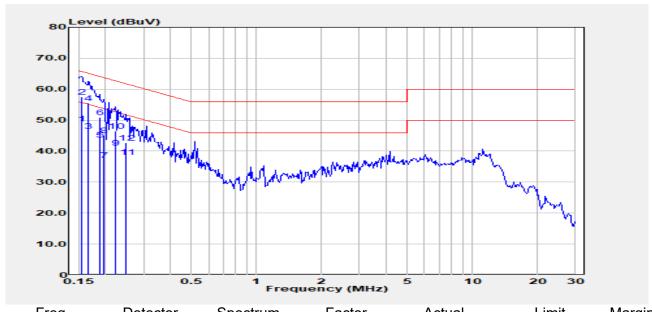


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Report Number :TERF2306001352E2 Test Site :Conduction C

Test Mode :BLE 1M **Test Date** :2023-06-30 Power :120V/60Hz Temp./Humi. :23.3°C/66%

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
0.155	Average	38.60	10.30	48.90	55.74	-6.84
0.155	QP	47.20	10.30	57.50	65.74	-8.24
0.167	Average	36.30	10.30	46.60	55.12	-8.52
0.167	QP	45.30	10.30	55.60	65.12	-9.52
0.187	Average	33.40	10.30	43.70	54.15	-10.45
0.187	QP	40.60	10.30	50.90	64.15	-13.25
0.198	Average	26.80	10.30	37.10	53.71	-16.61
0.198	QP	34.90	10.30	45.20	63.71	-18.51
0.222	Average	30.90	10.30	41.20	52.74	-11.54
0.222	QP	36.20	10.30	46.50	62.74	-16.24
0.249	Average	27.80	10.30	38.10	51.78	-13.67
0.249	QP	32.40	10.30	42.70	61.78	-19.07

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

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

8.1.2 FCC

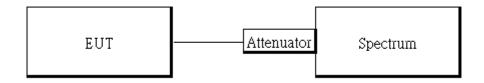
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

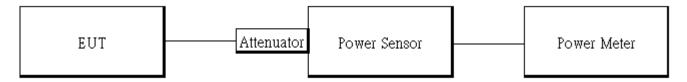
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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Measurement Procedure:

8.3.1 **Duty Cycle**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set span = Zero
- 3. RBW = 8MHz, VBW = 8MHz,
- 4. Detector = Peak

8.3.2 **Output Power**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- 4. Record the max. Reading as observed from Power Meter.
- Repeat above procedures until all test default channel measured was complete.

8.4 **Duty Factor:**

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	86.40	0.63	0.46	1.00
BLE 2M	44.20	3.55	0.90	1.00

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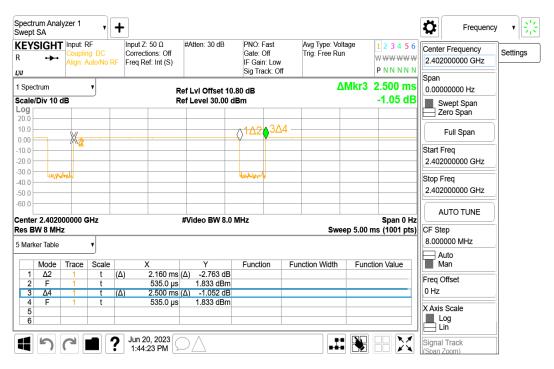
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BLE_1M_LowCH00-2402



BLE 2M LowCH00-2402



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Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	31	2.42	30
Mid	2442	31	1.99	30
High	2480	31	1.82	30
СН	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
Low	2402	31	2.40	30
Mid	2442	31	1.92	30
High	2480	31	1.81	30

^{*}Note:

BLE 2M mode:

СН	Frequency (MHz)	Power set	Peak Output Power (dBm)	Required Limit (dBm)
Low	2402	31	1.97	30
Mid	2442	31	1.92	30
High	2480	31	1.81	30
СН	Frequency (MHz)	Power set	Avg. Output Power (dBm)	Required Limit (dBm)
CH				
	(MHz)	set	(dBm)	(dBm)

^{*}Note:

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^{1.}Measured by power meter, cable loss 10.8 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

^{1.}Measured by power meter, cable loss 10.8 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.



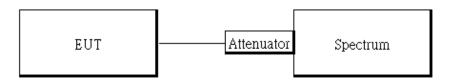
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Test Setup



9.3 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 FCC measurements

- 1. The testing follows the Measurement Procedure of the KDB 558074 D01.
- 2. Set the spectrum analyzer as

RBW= 100 kHz,

VBW = 3 X RBW

Span= 2 to 5 times of the OBW,

Sweep=auto, Detector = Peak, and Max hold.

- 3. Mark the upper and lower frequencies of -6dB.
- 4. Repeat above procedures until all test default channel is completed.

9.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6757	≥ 0.5	PASS
2442	0.6759	≥ 0.5	PASS
2480	0.675	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.142	≧ 0.5	PASS
2442	1.135	≥ 0.5	PASS
2480	1.129	≥ 0.5	PASS

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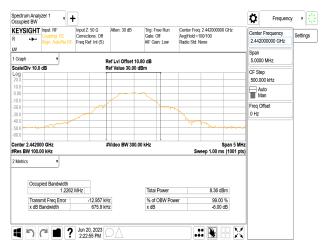


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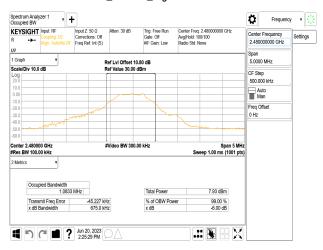
OBW BLE 1M LowCH00-2402MHz



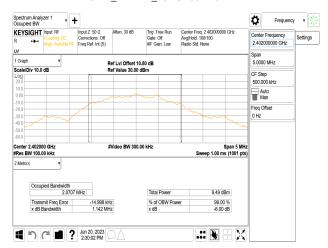
OBW_BLE 1M_MidCH20-2442MHz



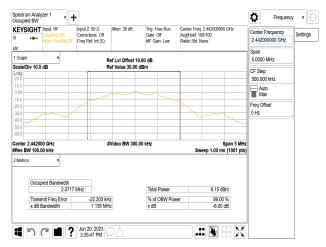
OBW_BLE 1M_HighCH39-2480MHz



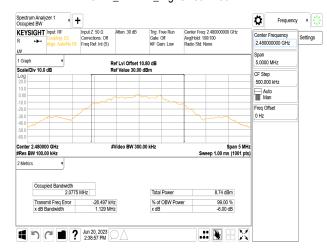
OBW BLE 2M LowCH00-2402MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 2M_HighCH39-2480MHz



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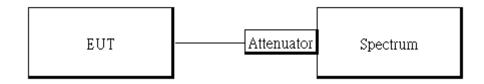
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

10.3.2 Conducted Band Edge:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.

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- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Set DL as the limit = reading on marker of reference level measurement 20dBm
- 7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 8. Repeat above procedures until all default test channel (low and high) was complete.

10.3.3 Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW=300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

10.4 Measurement Result

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)	
2402	1.76	-18.24	
2442	1.35	-18.65	
2480	0.97	-19.03	

^{*}Note:

BLE 2M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)	
2402	1.74	-18.26	
2442	1.45	-18.55	
2480	1.14	-18.86	

^{*}Note:

1.cable loss as 10.8dB that offsets in the spectrum 2.Refer to next page for plots.

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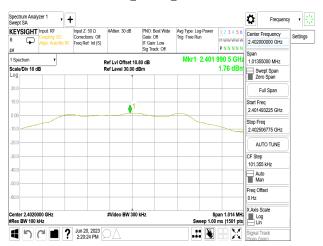
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^{1.}cable loss as 10.8dB that offsets in the spectrum 2.Refer to next page for plots.



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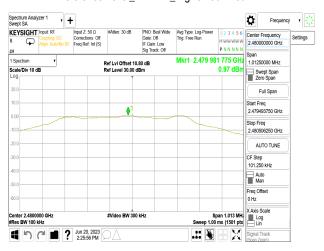
Reference Level BLE 1M LowCH00-2402MHz



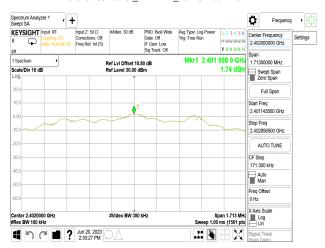
Reference Level BLE 1M MidCH20-2442MHz



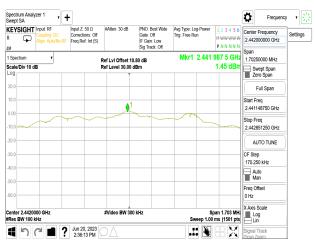
Reference Level_BLE 1M_HighCH39-2480MHz



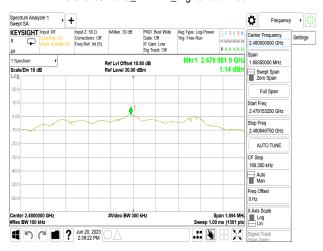
Reference Level_BLE 2M_LowCH00-2402MHz



Reference Level_BLE 2M_MidCH20-2442MHz



Reference Level_BLE 2M_HighCH39-2480MHz



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Band Edge_BLE 1M_LowCH00-2402MHz



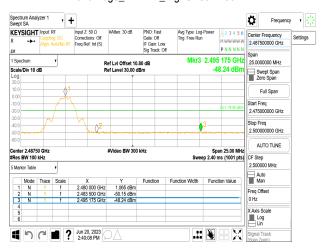
Band Edge BLE 1M HighCH39-2480MHz



Band Edge_BLE 2M_LowCH00-2402MHz



Band Edge_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 1M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



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Spurious Emission_BLE 1M_HighCH39-2480MHz



Spurious Emission BLE 2M LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



Spurious Emission_BLE 2M_HighCH39-2480MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 **Standard Applicable**

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

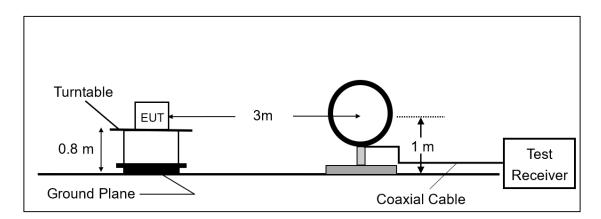
And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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: The lower limit shall apply at the transition frequencies.

Test Setup 11.2

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



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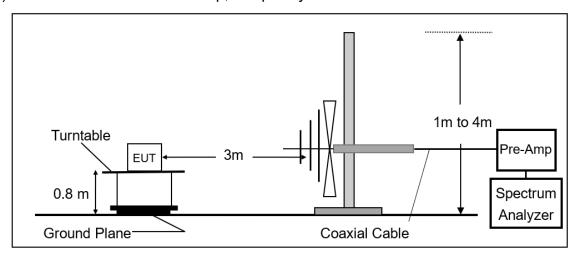
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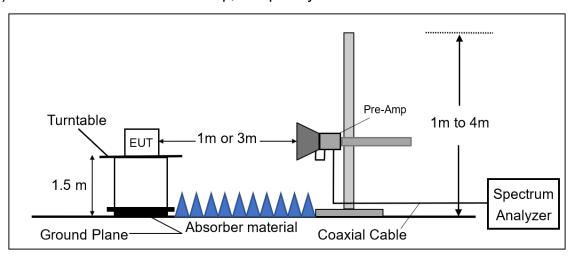


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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



11.3 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
- 9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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11.6 Measurement Result:

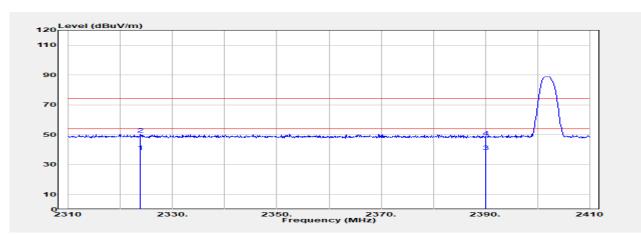
11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2402 MHz Temp./Humi. :24.9 $^{\circ}$ C/62 $^{\circ}$

Test Mode :Bandedge 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
2323.800	Average	42.08	-3.28	38.81	54.00	-15.19
2323.800	Peak	53.59	-3.28	50.31	74.00	-23.69
2390.000	Average	42.07	-3.51	38.56	54.00	-15.44
2390.000	Peak	52.01	-3.51	48.50	74.00	-25.50

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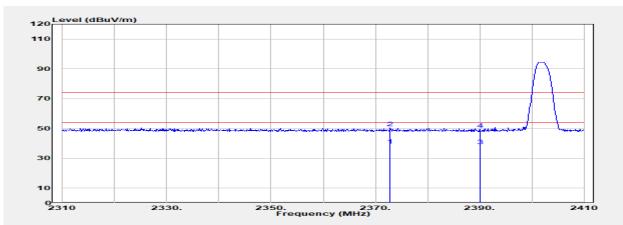
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30
Test Frequency :2402 MHz Temp./Humi. :24.9°C/62%
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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2372.800	Average	42.08	-3.42	38.65	54.00	-15.35
2372.800	Peak	53.88	-3.42	50.46	74.00	-23.54
2390.000	Average	41.95	-3.51	38.44	54.00	-15.56
2390.000	Peak	52.80	-3.51	49.29	74.00	-24.71

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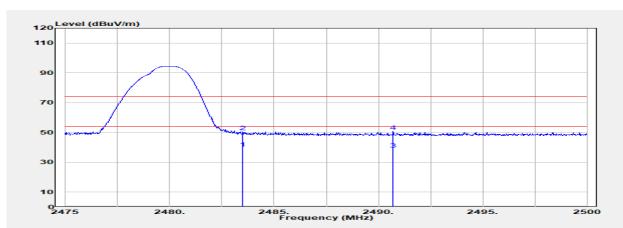
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2480 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.01	-3.54	39.47	54.00	-14.53
2483.500	Peak	53.92	-3.54	50.38	74.00	-23.62
2490.700	Average	42.14	-3.53	38.60	54.00	-15.40
2490.700	Peak	54.35	-3.53	50.82	74.00	-23.18

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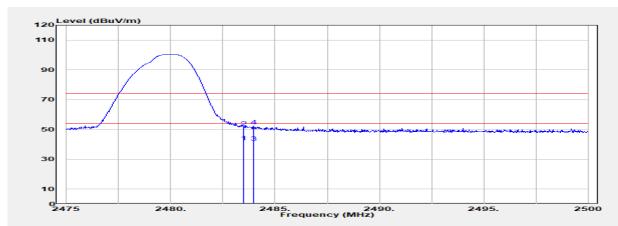
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode:BLE 1MTest Date:2023-06-30Test Frequency:2480 MHzTemp./Humi.:24.9 ℃ /62%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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.25	-3.54	41.71	54.00	-12.29
2483.500	Peak	54.90	-3.54	51.36	74.00	-22.64
2483.950	Average	44.77	-3.54	41.22	54.00	-12.78
2483.950	Peak	55.78	-3.54	52.24	74.00	-21.76

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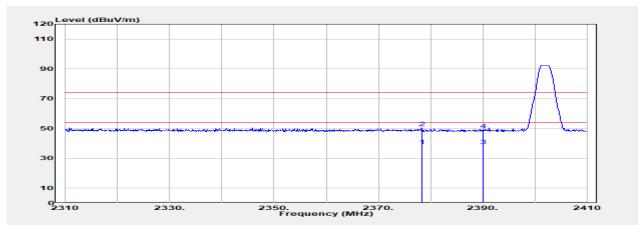
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30 Test Frequency :2402 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2378.300	Average	41.95	-3.45	38.50	54.00	-15.50
2378.300	Peak	53.77	-3.45	50.32	74.00	-23.68
2390.000	Average	41.95	-3.51	38.44	54.00	-15.56
2390.000	Peak	52.46	-3.51	48.95	74.00	-25.05

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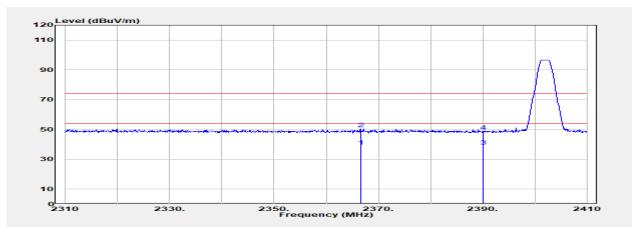
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Report Number :TERF2306001352E2 :SAC G Chamber **Test Site**

Operation Mode :BLE 2M **Test Date** :2023-06-30 Temp./Humi. :24.9°C/62% Test Frequency :2402 MHz Antenna Pol. :Horizontal **Test Mode** :Bandedge **EUT Pol** :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2366.600	Average	41.99	-3.39	38.60	54.00	-15.40
2366.600	Peak	53.69	-3.39	50.30	74.00	-23.70
2390.000	Average	42.14	-3.51	38.63	54.00	-15.37
2390.000	Peak	52.23	-3.51	48.72	74.00	-25.28

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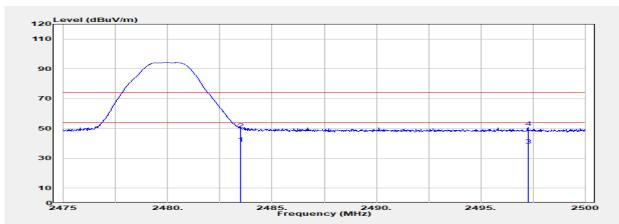
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30 Test Frequency :2480 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.69	-3.54	40.15	54.00	-13.85
2483.500	Peak	53.01	-3.54	49.47	74.00	-24.53
2497.275	Average	42.21	-3.52	38.69	54.00	-15.31
2497.275	Peak	54.36	-3.52	50.84	74.00	-23.16

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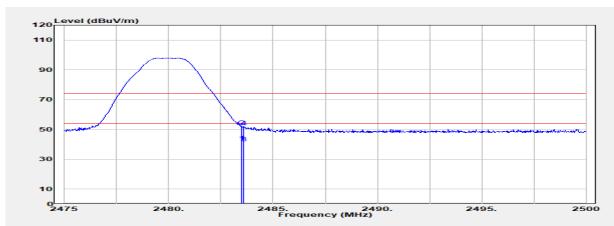
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode:BLE 2MTest Date:2023-06-30Test Frequency:2480 MHzTemp./Humi.:24.9°C/62%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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.24	-3.54	41.70	54.00	-12.30
2483.500	Peak	55.66	-3.54	52.11	74.00	-21.89
2483.600	Average	44.60	-3.54	41.06	54.00	-12.94
2483.600	Peak	55.21	-3.54	51.67	74.00	-22.33

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11.6.2 **Radiated Spurious Emission**

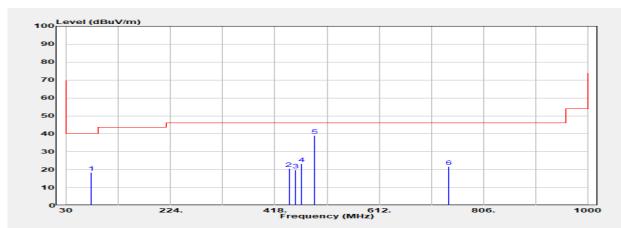
Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-09-19

Test Frequency :2442 MHz Temp./Humi. :22.1°C/61%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
75.590	QP	34.70	-16.27	18.44	40.00	-21.57
444.190	QP	28.50	-8.03	20.47	46.00	-25.53
455.830	QP	27.50	-7.69	19.81	46.00	-26.19
467.470	QP	30.80	-7.55	23.25	46.00	-22.75
491.720	QP	46.50	-7.51	38.99	46.00	-7.01
741.980	QP	24.10	-2.43	21.67	46.00	-24.33

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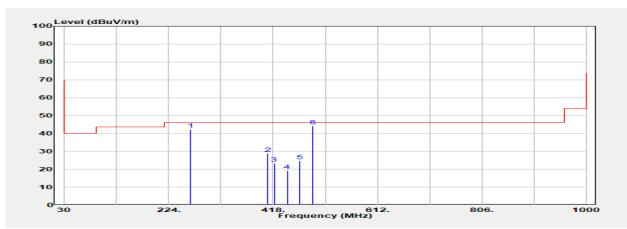
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Report Number :TERF2306001352E2 :SAC G Chamber **Test Site**

Operation Mode :BLE 1M **Test Date** :2023-09-19 Temp./Humi. :22.1°C/61% Test Frequency :2442 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	dΒμV	dB	dBμV/m	dBμV/m	dB
263.770	QP	55.40	-13.16	42.24	46.00	-3.76
407.330	QP	38.00	-9.32	28.68	46.00	-17.32
419.940	QP	32.60	-9.31	23.29	46.00	-22.71
444.190	QP	27.30	-8.03	19.27	46.00	-26.73
467.470	QP	32.30	-7.55	24.75	46.00	-21.25
491.720	QP	51.70	-7.51	44.19	46.00	-1.81

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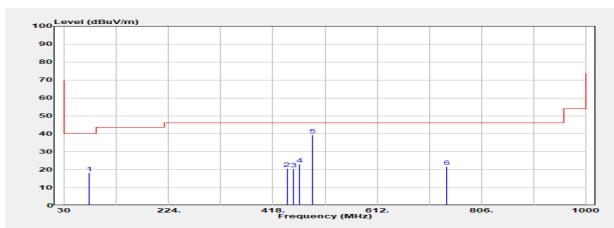
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Report Number :TERF2306001352E2 :SAC G Chamber **Test Site**

Operation Mode :BLE 2M **Test Date** :2023-09-19 Temp./Humi. :22.1°C/61% Test Frequency :2442 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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
75.600	QP	34.50	-16.27	18.24	40.00	-21.77
444.190	QP	28.70	-8.03	20.67	46.00	-25.33
455.820	QP	27.90	-7.69	20.21	46.00	-25.79
467.460	QP	30.70	-7.55	23.15	46.00	-22.85
491.720	QP	46.70	-7.51	39.19	46.00	-6.81
741.960	QP	24.20	-2.43	21.77	46.00	-24.23

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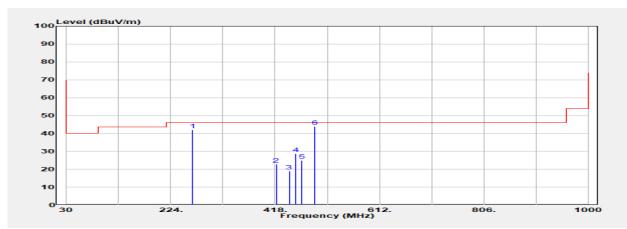
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-09-19
Test Frequency :2442 MHz Temp./Humi. :22.1°C/61%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
263.760	QP	55.20	-13.16	42.04	46.00	-3.96
419.940	QP	32.20	-9.31	22.89	46.00	-23.11
444.190	QP	27.00	-8.03	18.97	46.00	-27.03
455.830	QP	36.47	-7.69	28.78	46.00	-17.22
467.490	QP	32.50	-7.55	24.95	46.00	-21.05
491.720	QP	51.40	-7.51	43.89	46.00	-2.11

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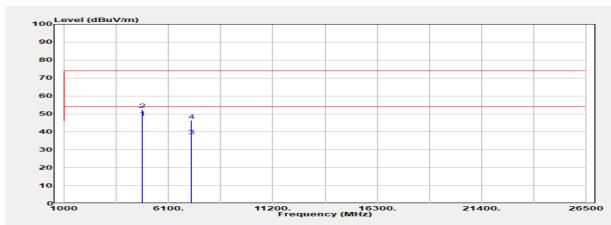
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Report Number :TERF2306001352E2 :SAC G Chamber **Test Site**

Operation Mode :BLE 1M **Test Date** :2023-06-30 Temp./Humi. :24.9°C/62% 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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Average	44.83	3.26	48.09	54.00	-5.91
4804.000	Peak	48.93	3.26	52.18	74.00	-21.82
7206.000	Average	29.13	8.51	37.64	54.00	-16.36
7206.000	Peak	37.96	8.51	46.47	74.00	-27.53

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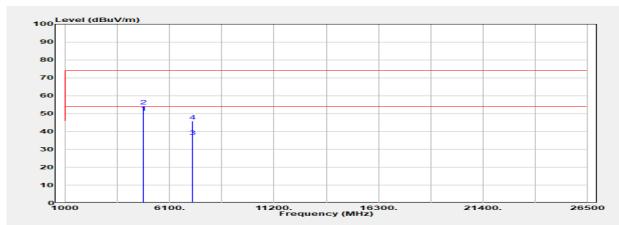
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2402 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Average	47.51	3.26	50.77	54.00	-3.23
4804.000	Peak	51.01	3.26	54.26	74.00	-19.74
7206.000	Average	28.73	8.51	37.24	54.00	-16.76
7206.000	Peak	37.19	8.51	45.70	74.00	-28.30

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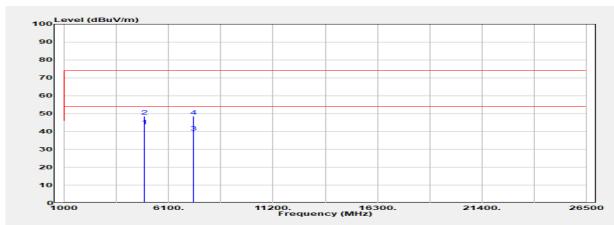
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2442 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	39.67	3.37	43.04	54.00	-10.96
4884.000	Peak	45.26	3.37	48.63	74.00	-25.37
7326.000	Average	30.97	8.68	39.66	54.00	-14.34
7326.000	Peak	39.87	8.68	48.55	74.00	-25.45

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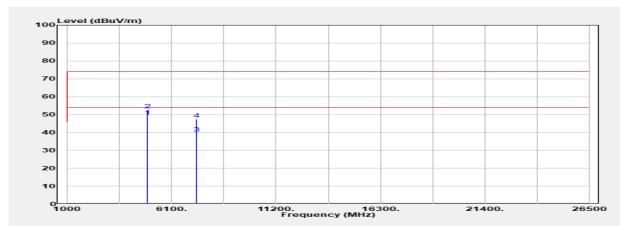
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2442 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	45.56	3.37	48.93	54.00	-5.07
4884.000	Peak	49.18	3.37	52.55	74.00	-21.45
7326.000	Average	30.83	8.68	39.52	54.00	-14.48
7326.000	Peak	38.64	8.68	47.32	74.00	-26.68

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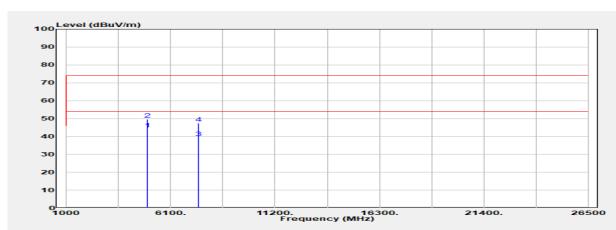
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2480 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	40.68	3.62	44.29	54.00	-9.71
4960.000	Peak	45.93	3.62	49.55	74.00	-24.45
7440.000	Average	29.87	9.42	39.29	54.00	-14.71
7440.000	Peak	37.96	9.42	47.38	74.00	-26.62

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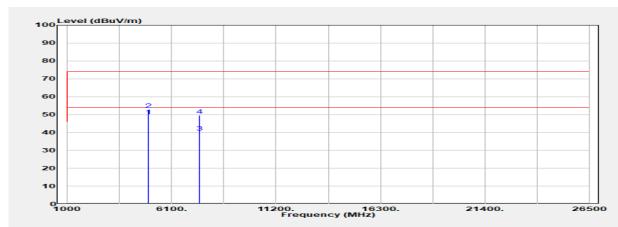
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 1M Test Date :2023-06-30 Test Frequency :2480 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	45.67	3.62	49.28	54.00	-4.72
4960.000	Peak	49.30	3.62	52.91	74.00	-21.09
7440.000	Average	30.71	9.42	40.13	54.00	-13.87
7440.000	Peak	40.15	9.42	49.57	74.00	-24.43

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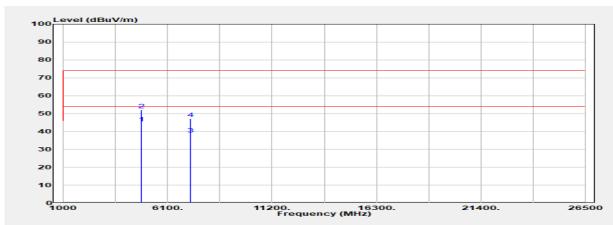
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30 Test Frequency :2402 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Average	41.55	3.26	44.81	54.00	-9.19
4804.000	Peak	48.81	3.26	52.06	74.00	-21.94
7206.000	Average	29.88	8.51	38.38	54.00	-15.62
7206.000	Peak	38.67	8.51	47.18	74.00	-26.82

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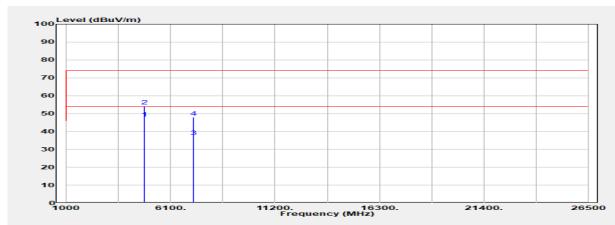
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30 Test Frequency :2402 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Average	44.10	3.26	47.35	54.00	-6.65
4804.000	Peak	51.04	3.26	54.29	74.00	-19.71
7206.000	Average	28.62	8.51	37.13	54.00	-16.87
7206.000	Peak	39.41	8.51	47.92	74.00	-26.08

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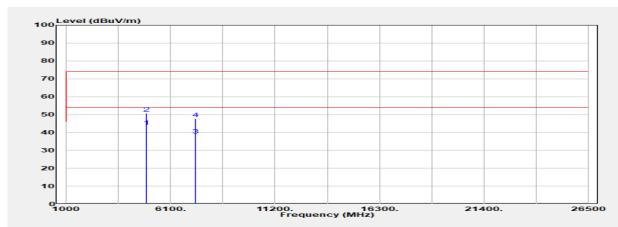
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30 Test Frequency :2442 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	40.11	3.37	43.48	54.00	-10.52
4884.000	Peak	47.28	3.37	50.65	74.00	-23.35
7326.000	Average	29.83	8.68	38.52	54.00	-15.48
7326.000	Peak	38.92	8.68	47.61	74.00	-26.39

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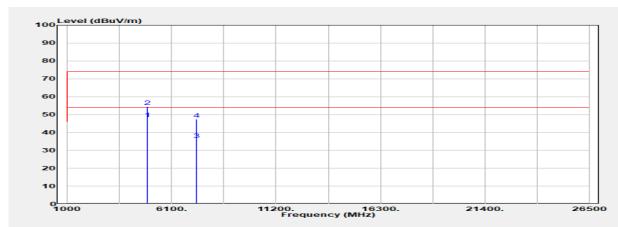
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Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30

Test Frequency :2442 MHz Temp./Humi. :24.9℃/62% 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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	44.20	3.37	47.57	54.00	-6.43
4884.000	Peak	51.07	3.37	54.44	74.00	-19.56
7326.000	Average	27.48	8.68	36.16	54.00	-17.84
7326.000	Peak	38.68	8.68	47.37	74.00	-26.63

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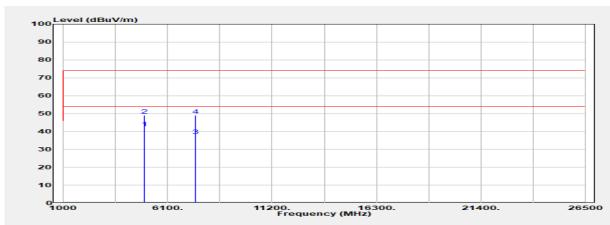
Page: 54 of 58

Report Number :TERF2306001352E2 Test Site :SAC G Chamber

Operation Mode :BLE 2M Test Date :2023-06-30 Test Frequency :2480 MHz Temp./Humi. :24.9°C/62%

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/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	38.33	3.62	41.94	54.00	-12.06
4960.000	Peak	45.39	3.62	49.01	74.00	-24.99
7440.000	Average	28.18	9.42	37.60	54.00	-16.40
7440.000	Peak	39.72	9.42	49.14	74.00	-24.86

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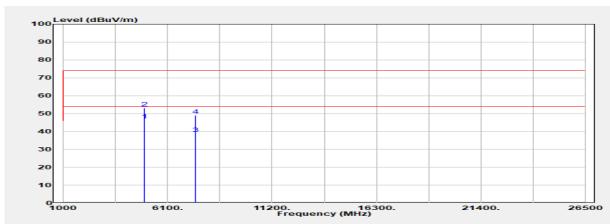
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Report Number :TERF2306001352E2 :SAC G Chamber **Test Site**

Operation Mode :BLE 2M **Test Date** :2023-06-30

Temp./Humi. :24.9°C/62% Test Frequency :2480 MHz Antenna Pol. :Horizontal Test Mode :Tx

EUT Pol :E2 Plane :Temo Chen Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	42.69	3.62	46.30	54.00	-7.70
4960.000	Peak	49.54	3.62	53.16	74.00	-20.84
7440.000	Average	29.33	9.42	38.75	54.00	-15.25
7440.000	Peak	39.52	9.42	48.94	74.00	-25.06

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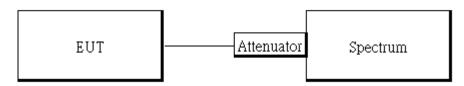
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Test Setup



12.3 Measurement Procedure:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz. & the VBW = 10 kHz
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

12.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-12.790	8	PASS
2442	-13.300	8	PASS
2480	-14.190	8	PASS

^{*}Note:

1.cable loss as 10.8dB that offsets in the spectrum

BLE 2M mode

DEE ZIVI IIIOGO			
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-15.170	8	PASS
2442	-13.590	8	PASS
2480	-13.660	8	PASS

^{*}Note:

1.cable loss as 10.8dB that offsets in the spectrum

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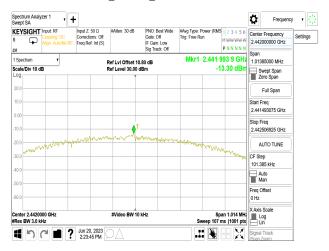


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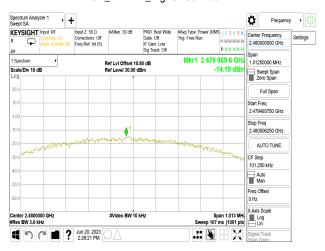
PSD_BLE 1M_LowCH00-2402MHz



PSD BLE 1M MidCH20-2442MHz



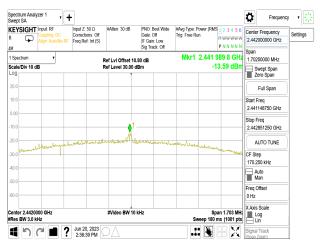
PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_LowCH00-2402MHz



PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 2M_HighCH39-2480MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 **Antenna Connected Construction:**

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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