



ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**





Page: 1 of 60

Applicant: Motive Technologies, Inc.

55 Hawthorne St., Suite 400, San Francisco, CA 94105

Manufacturer: Quanta Computer Inc.

No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City

33377, Taiwan

Product Name: Asset Gateway

Brand Name: Motive FCC Model No.: AG-55

ISED Model No.: AG-55C

Model Difference: N/A

Report Number: TERF2209001660ER

FCC ID 2AQM7-AG55C

IC: 24516-AG55C

Date of EUT Received: Sep. 05, 2022

Date of Test: Sep. 12, 2022~Sep. 19, 2022

Issue Date: Oct. 04, 2022

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, ISED RSS-247.

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

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Page: 2 of 60

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Revision History						
Report Number	Revision	Description	Issue Date	Revised By	Remark	
TERF2209001660ER	00	Original.	Oct. 04, 2022	Yi-Shan Tsai		

Note:

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

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Page: 3 of 60

Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	6
3	SUMMARY OF TEST RESULTS	9
4	DESCRIPTION OF TEST MODES	10
5	MEASUREMENT UNCERTAINTY	12
6	MEASUREMENT EQUIPMENT USED	13
7	CONDUCTED EMISSION TEST	14
8	PEAK OUTPUT POWER MEASUREMENT	16
9	EMISSION BANDWIDTH MEASUREMENT	21
10	CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	25
11	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	30
12	POWER SPECTRAL DENSITY	57
12	ANTENNA RECHIREMENT	60

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Page: 4 of 60



GENERAL INFORMATION

1.1 **Product Description**

Product Name:	Asset Gateway
Brand Name:	Motive
FCC Model No.:	AG-55
ISED Model No.:	AG-55C
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	A12-3QG-G4C
Power Supply:	3.6Vdc from Rechargeable Li-ion Battery Pack
Test Software (Name/Version)	Tera Term V4.87 (Conducted) Tera Term V4.106 (Conduction & Radiated)

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 7.62 dBm BLE 2M: 7.64 dBm

1.3 **Antenna Designation**

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
Dipole	2402~2480	3.4

Note: Antenna information is provided by the applicant.

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Page: 5 of 60



1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 RSS-247 issue 2 Feb. 2017 RSS-Gen, Issue 5 (Amendment 2, February 2021) 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 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		TW3702
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
(1A1 Code 3702)		SAC D		
		SAC G		
	No 2 Koji 1et Pd. Gujehan Dietriet	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladyuan Gity, Talwan 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There 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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Page: 6 of 60

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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Page: 7 of 60

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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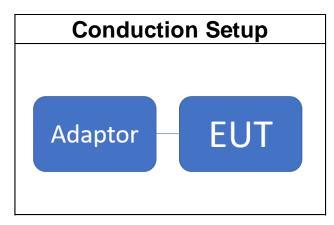
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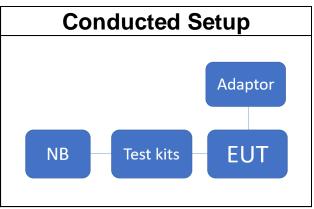
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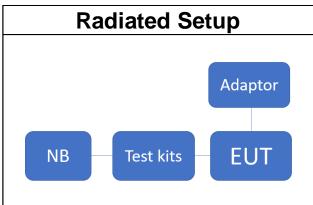
Page: 8 of 60



2.5 Test Configuration







2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A
	Co	nducted Emission Test	Site: Conducted 2		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A
Notebook	Lenovo	T440P	PC-089AH5	N/A	N/A
		Radiated Emission Te	st Site: SAC 3		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R
Notebook	Lenovo	L440	R9-00W5LW 14/03	N/A	N/A
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A

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Page: 9 of 60



3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	N/A
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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Page: 10 of 60

DESCRIPTION OF TEST MODES

Operating Frequencies 4.1

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

The Worst Test Modes and Channel Details 4.2

- 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.

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Page: 11 of 60



RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	20	GFSK	1		
Bluetooth LE	0 to 38	20	GFSK	2		
	RADIATED EN	MISSION TEST (ABOV	/E 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		
Bluetooth LE	0 to 38	0,20,38	GFSK	2		

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 38	0,20,38	GFSK	2			

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Page: 12 of 60

5 MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	:y
AC Power Line Conducted Emission	+/-	2.34	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Peak Power Density	+/-	1.62	dB
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
Polarization: Vertical	+/-	2.57	dB	9kHz~30MHz		
	+/-	4.85	dB	30MHz - 1000MHz		
	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		
	+/-	2.57	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz		
	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	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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Page: 13 of 60

MEASUREMENT EQUIPMENT USED

Emission from AC power line 6.1

AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
EMI Test Receiver	R&S	ESR 7	102525	02/17/2022	02/16/2023		
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023		
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023		
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2021	12/06/2022		

6.2 **Conducted Measurement**

	Conducted Emission Test Site: Conducted 2							
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.								
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/17/2021	12/16/2022			
Power Meter	Anritsu	ML2496A	2138003	11/12/2021	11/11/2022			
Power Sensor	Anritsu	MA2411B	1911394	09/21/2021	09/20/2022			

6.3 **Radiated Measurement**

Radiated Emission Test Site: SAC 3							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022		
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022		
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023		
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022		
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2022	04/26/2023		
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023		
Pre-Amplifier	НР	8449B	3008A00578	12/16/2021	12/15/2022		
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022		
Pre-Amplifier	НР	8447D	2944A07676	12/16/2021	12/15/2022		
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022		
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/14/2021	12/13/2022		
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/14/2021	12/13/2022		
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2021	12/15/2022		
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2021	12/15/2022		
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2021	12/15/2022		
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2021	12/15/2022		
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2021	12/15/2022		
Site Cal	SGS	SAC 3	N/A	01/01/2022	12/31/2022		

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Page: 14 of 60



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		

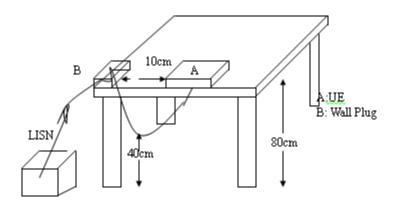
Note

- 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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Page: 15 of 60

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:**

N/A; Powered from 3.6V battery.

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Page: 16 of 60

8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

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.

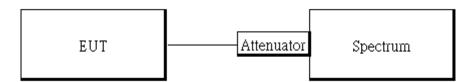
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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Page: 17 of 60

8.3 **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.
- 5. 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	100.00	0.00	0.33	0.01
BLE 2M	100.00	0.00	0.33	0.01

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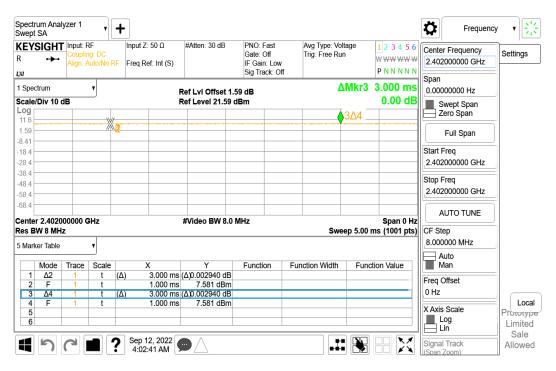
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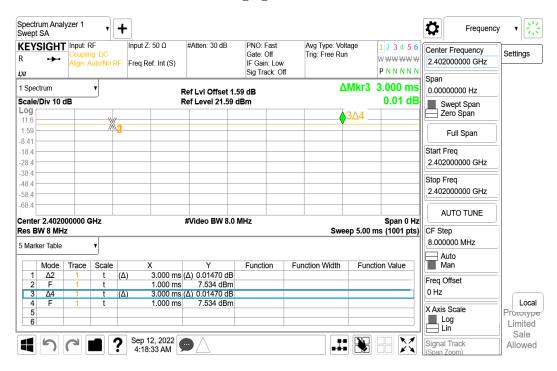
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Page: 18 of 60

BLE_1M_LowCH00-2402



BLE 2M LowCH00-2402



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Page: 19 of 60



Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	8	7.62	30
Mid	2442	8	7.43	30
High	2480	8	7.11	30
СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	8	7.59	30
Mid	2442	8	7.40	30
High	2480	8	7.07	30

^{*}Note: Measured by power meter, cable loss 1.59 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

BLE 2M mode:

СН	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	8	7.64	30
Mid	2442	8	7.39	30
High	2478	8	7.09	30
СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	8	7.61	30
Mid	2442	8	7.37	30
High	2478	8	7.06	30

*Note: Measured by power meter, cable loss 1.59 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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Page: 20 of 60



8.5.2 EIRP

EIRP BLE 1M mode

СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
Low	2402	8	7.59	3.40	10.99	4W=	36	dBm
Mid	2442	8	7.40	3.40	10.80	4W=	36	dBm
High	2480	8	7.07	3.40	10.47	4W=	36	dBm

^{*} Note: EIRP = Average Power + Gain

EIRP BLE 2M mode

СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)		Limit	
Low	2402	8	7.61	3.40	11.01	4W=	36	dBm
Mid	2442	8	7.37	3.40	10.77	4W=	36	dBm
High	2478	8	7.06	3.40	10.46	4W=	36	dBm

^{*} Note: EIRP = Average Power + Gain

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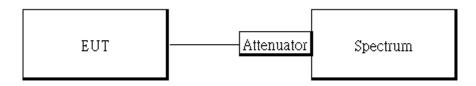
Page: 21 of 60

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. 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 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 for -6dB Bandwidth test.

5. Set the spectrum analyzer as

RBW= 1 % to 5% of 99% Bandwidth,

VBW ≥ 3 X RBW.

Span= large enough to capture all products of the modulation process,

Sweep=auto,

Detector = Peak, and Max hold for 99% Bandwidth test.

- 6. Mark the peak frequency and 99%dB (upper and lower) frequency
- 7. Repeat above procedures until all test default channel is completed

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Page: 22 of 60



9.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.743	≧ 0.5	PASS
2442	0.7379	≧ 0.5	PASS
2480	0.7264	≧ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.316	≧ 0.5	PASS
2442	1.254	≧ 0.5	PASS
2478	1.269	≧ 0.5	PASS

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0690
2442	1.0651
2480	1.0650

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0508
2442	2.0712
2478	2.0927

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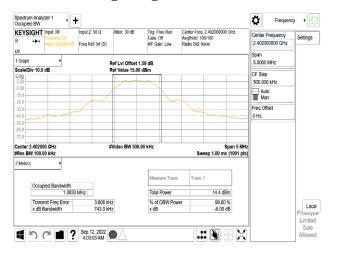
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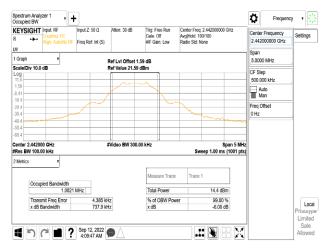
Page: 23 of 60



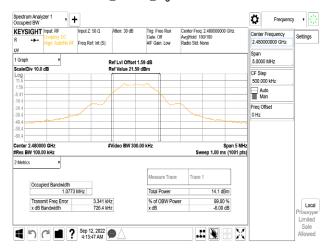
OBW BLE 1M LowCH00-2402MHz



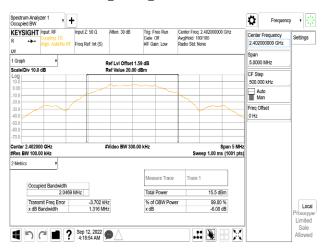
OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz



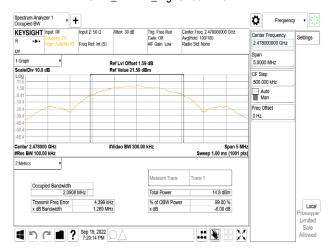
OBW_BLE 2M_LowCH00-2402MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 2M_HighCH38-2478MHz



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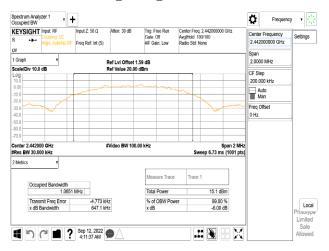
Page: 24 of 60



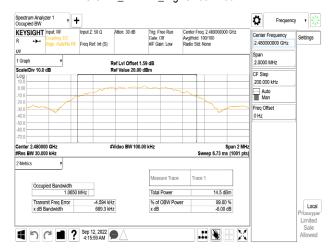
IC OBW_BLE 1M_LowCH00-2402MHz

Spectrum Analyzer 1 Frequency • Ö KEYSIGHT Input RE Frog Rof: Int (S) Ref Lvl Offset 1.59 dB Ref Value 20.00 dBm 2.0000 MH Scale/Div 10.0 dB CF Ste 200,000 kHz Auto Man Freq Offset 0 Hz Span Sweep 6.73 ms (100 #Res BW 30.000 kHz 15.0 dBm % of OBW Por Transmit Freq Error x dB Bandwidth Sep 12, 2022 9 .: 👺 🖁 X

IC OBW_BLE 1M_MidCH20-2442MHz



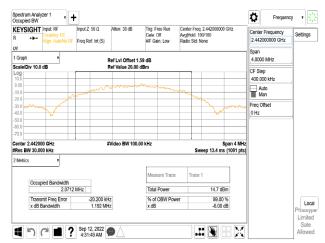
IC OBW_BLE 1M_HighCH39-2480MHz



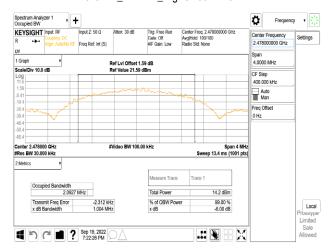
IC OBW_BLE 2M_LowCH00-2402MHz



IC OBW_BLE 2M_MidCH20-2442MHz



IC OBW_BLE 2M_HighCH38-2478MHz



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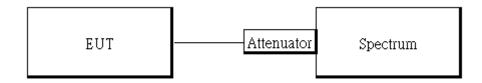
Page: 25 of 60

10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 **Standard Applicable**

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

10.2 **Test Setup**



10.3 **Measurement Procedure**

10.3.1 **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.
- 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.

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Page: 26 of 60

- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 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.
- 2. 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.

Measurement Result 10.4

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	6.94	-13.06
2442	6.95	-13.05
2480	6.85	-13.15

NOTE: cable loss as 1.59dB that offsets in the spectrum

NOTE: Refer to next page for plots.

BLE 2M Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	6.31	-13.69
2442	6.22	-13.78
2478	5.89	-14.11

NOTE: cable loss as 1.59dB that offsets in the spectrum

NOTE: Refer to next page for plots.

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Page: 27 of 60



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_HighCH38-2478MHz



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Page: 28 of 60



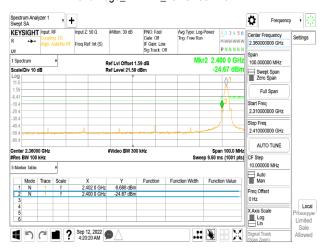
Band Edge_BLE 1M_LowCH00-2402MHz

Spectrum Analyzer 1 Swept SA Ö KEYSIGHT Input R Frog Rof: Int (S) 2.400 0 GHz Ref Lvl Offset 1.59 dB Ref Level 21.59 dBm 100.000000 MHz Scale/Div 10 dE -43.00 dl Swept Span Zero Span 2.310000000 GHz 2 410000000 GHz AUTO TUNE Freq Offset 0 Hz Local X Axis So 4:05:57 AM TT 🎛 🖁 💢

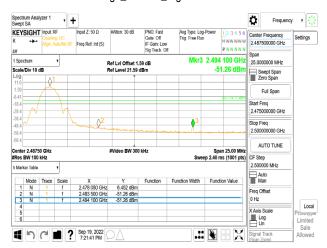
Band Edge BLE 1M_HighCH39-2480MHz



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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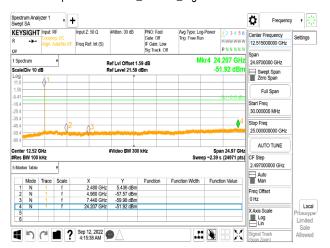
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Page: 29 of 60



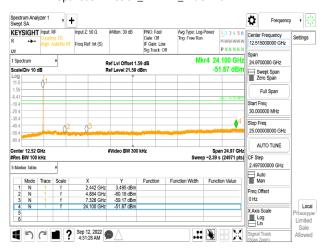
Spurious Emission_BLE 1M_HighCH39-2480MHz



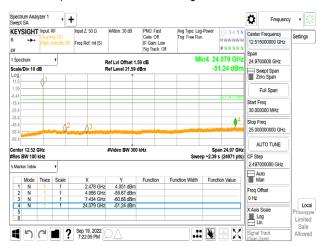
Spurious Emission BLE 2M LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



Spurious Emission_BLE 2M_HighCH38-2478MHz



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Page: 30 of 60



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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

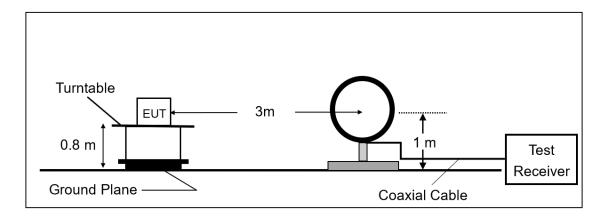
And according to §15.33(a) (1) & RSS-Gen §6.13.2.a for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note: The lower limit shall apply at the transition frequencies.

11.2 Test Setup

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



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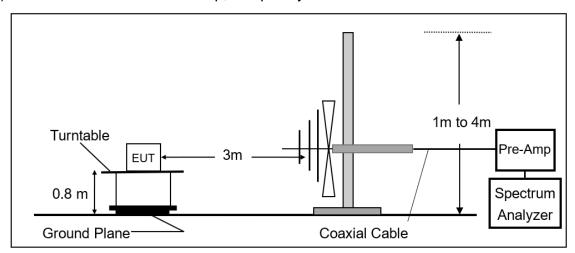
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Report No.: TERF2209001660ER

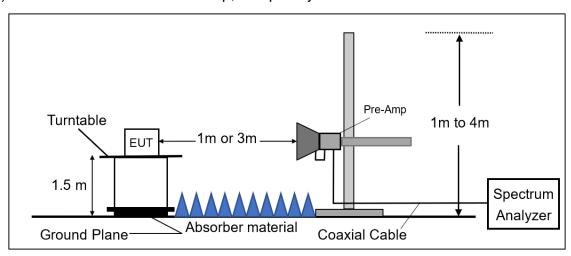
Page: 31 of 60



(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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Page: 32 of 60

- 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 μV) + Factor(dB)

 $Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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) & RSS-GEN §6.13.2 was not reported.

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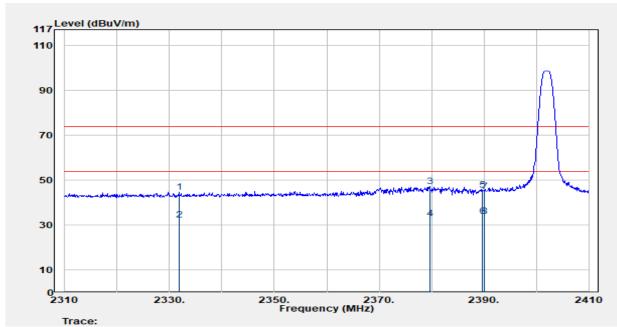
Measurement Result:

11.6.1 **Radiated Band Edge Measurement Result**

Report Number Test Site :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency Temp./Humi. :2402 MHz :24.7/68 Test Mode Antenna Pol. :Vertical :Bandedge **EUT Pol** :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2331.800	Peak	43.79	1.07	44.87	74.00	-29.13
2331.800	Average	31.20	1.07	32.27	54.00	-21.73
2379.700	Peak	46.01	1.18	47.19	74.00	-26.81
2379.700	Average	31.79	1.18	32.97	54.00	-21.03
2389.700	Peak	44.55	1.18	45.74	74.00	-28.26
2389.700	Average	32.78	1.18	33.96	54.00	-20.04
2390.000	Peak	43.75	1.18	44.93	74.00	-29.07
2390.000	Average	32.83	1.18	34.01	54.00	-19.99

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Antenna Pol. :Horizontal

Page: 34 of 60



Test Mode

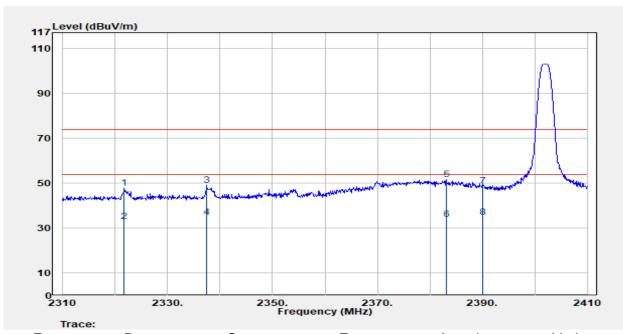
Report Number Test Site :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68

:Bandedge

EUT Pol Engineer :H Plane :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level	ID.	FS	@3m	ID.
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2321.700	Peak	46.75	1.02	47.77	74.00	-26.23
2321.700	Average	31.96	1.02	32.98	54.00	-21.02
2337.500	Peak	48.02	1.11	49.13	74.00	-24.87
2337.500	Average	33.87	1.11	34.98	54.00	-19.02
2383.100	Peak	50.47	1.18	51.65	74.00	-22.35
2383.100	Average	32.89	1.18	34.07	54.00	-19.93
2390.000	Peak	47.50	1.18	48.68	74.00	-25.32
2390.000	Average	33.79	1.18	34.97	54.00	-19.03

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Page: 35 of 60

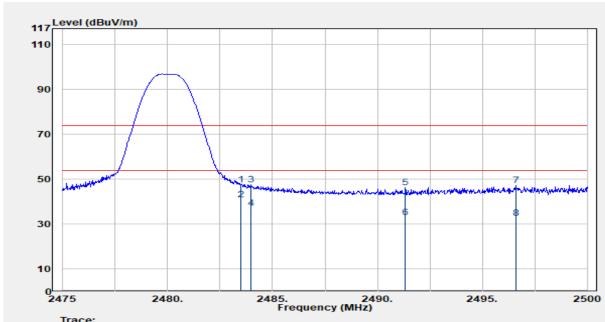


Report Number Test Site :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2480 MHz Temp./Humi. :24.7/68 Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol Engineer :H Plane :Nick Lin



mace:						
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
2483.500	Peak	46.36	1.09	47.45	74.00	-26.55
2483.500	Average	39.77	1.09	40.86	54.00	-13.14
2483.975	Peak	46.47	1.09	47.56	74.00	-26.44
2483.975	Average	35.92	1.09	37.01	54.00	-16.99
2491.325	Peak	45.24	1.13	46.37	74.00	-27.63
2491.325	Average	31.90	1.13	33.03	54.00	-20.97
2496.600	Peak	46.07	1.16	47.23	74.00	-26.77
2496.600	Average	31.51	1.16	32.67	54.00	-21.33

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Antenna Pol. :Horizontal

Page: 36 of 60



Test Mode

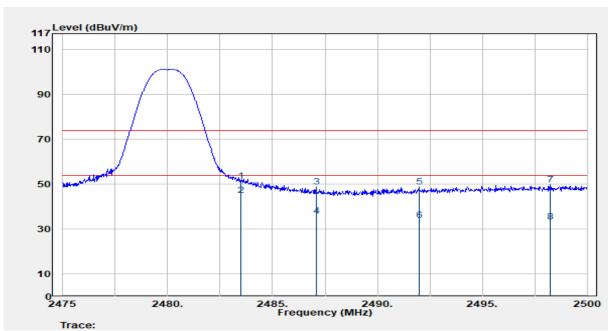
Report Number Test Site :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2480 MHz Temp./Humi. :24.7/68

:Bandedge

EUT Pol Engineer :H Plane :Nick Lin



mace.						
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.500	Peak	50.39	1.09	51.48	74.00	-22.52
2483.500	Average	43.78	1.09	44.87	54.00	-9.13
2487.075	Peak	47.73	1.11	48.84	74.00	-25.16
2487.075	Average	34.69	1.11	35.80	54.00	-18.20
2491.975	Peak	47.56	1.14	48.70	74.00	-25.30
2491.975	Average	32.86	1.14	34.00	54.00	-20.00
2498.225	Peak	48.53	1.17	49.70	74.00	-24.30
2498.225	Average	31.99	1.17	33.16	54.00	-20.84

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Page: 37 of 60

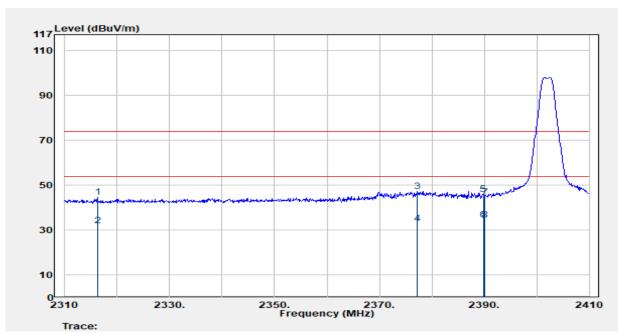


Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 2M Test Date :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
2316.200	Peak	43.63	0.98	44.62	74.00	-29.38
2316.200	Average	31.02	0.98	32.00	54.00	-22.00
2377.300	Peak	46.21	1.18	47.39	74.00	-26.61
2377.300	Average	31.64	1.18	32.82	54.00	-21.18
2389.800	Peak	44.74	1.18	45.92	74.00	-28.08
2389.800	Average	33.30	1.18	34.48	54.00	-19.52
2390.000	Peak	43.60	1.18	44.78	74.00	-29.22
2390.000	Average	33.36	1.18	34.54	54.00	-19.46

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Antenna Pol. :Horizontal

Page: 38 of 60



Test Mode

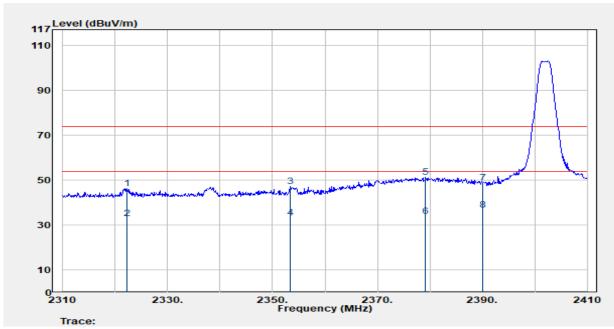
Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 2M Test Date :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68

:Bandedge

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2322.200	Peak	45.43	1.02	46.45	74.00	-27.55
2322.200	Average	31.86	1.02	32.88	54.00	-21.12
2353.400	Peak	46.13	1.18	47.31	74.00	-26.69
2353.400	Average	32.20	1.18	33.38	54.00	-20.62
2379.200	Peak	50.06	1.18	51.24	74.00	-22.76
2379.200	Average	32.85	1.18	34.03	54.00	-19.97
2390.000	Peak	47.57	1.18	48.75	74.00	-25.25
2390.000	Average	35.46	1.18	36.64	54.00	-17.36

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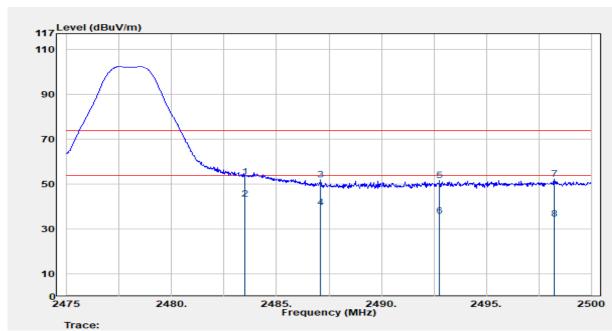


Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 2M Test Date :2022-09-14

Test Frequency :2478 MHz Temp./Humi. :24.7/68
Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
2483.500	Peak	52.21	1.09	53.30	74.00	-20.70
2483.500	Average	42.47	1.09	43.56	54.00	-10.44
2487.100	Peak	50.90	1.11	52.01	74.00	-21.99
2487.100	Average	38.39	1.11	39.50	54.00	-14.50
2492.775	Peak	50.60	1.14	51.74	74.00	-22.26
2492.775	Average	34.77	1.14	35.91	54.00	-18.09
2498.225	Peak	51.05	1.17	52.22	74.00	-21.78
2498.225	Average	33.33	1.17	34.50	54.00	-19.50

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Page: 40 of 60

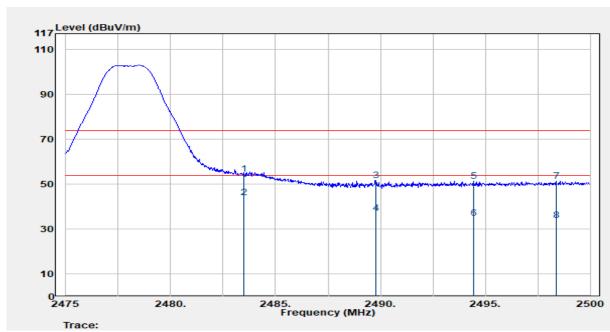


Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-14

Test Frequency :2478 MHz Temp./Humi. :24.7/68 Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.500	Peak	53.58	1.09	54.67	74.00	-19.33
2483.500	Average	43.12	1.09	44.21	54.00	-9.79
2489.800	Peak	50.41	1.13	51.53	74.00	-22.47
2489.800	Average	36.05	1.13	37.18	54.00	-16.82
2494.450	Peak	50.06	1.15	51.21	74.00	-22.79
2494.450	Average	33.88	1.15	35.03	54.00	-18.97
2498.375	Peak	50.30	1.17	51.47	74.00	-22.53
2498.375	Average	32.89	1.17	34.06	54.00	-19.94

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Page: 41 of 60



11.6.2 **Radiated Spurious Emission**

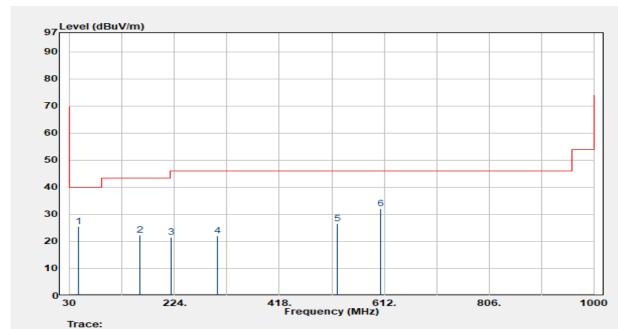
Report Number Test Site :SAC 3 :TERF2209001660ER

Operation Mode Test Date :2022-09-16 :BLE 1M

Test Frequency :2442 MHz Temp./Humi. :23.8/64

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
IVII IZ	TIVQI/AV	αυμν	ub_	αυμ ν/ιτι	αυμν/ιιι	uD_
45.520	Peak	33.94	-8.51	25.43	40.00	-14.57
159.980	Peak	30.25	-7.86	22.39	43.50	-21.11
217.210	Peak	32.28	-10.71	21.57	46.00	-24.43
303.540	Peak	28.77	-6.61	22.16	46.00	-23.84
524.700	Peak	28.73	-2.07	26.66	46.00	-19.34
605.210	Peak	31.96	0.10	32.06	46.00	-13.94

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Page: 42 of 60



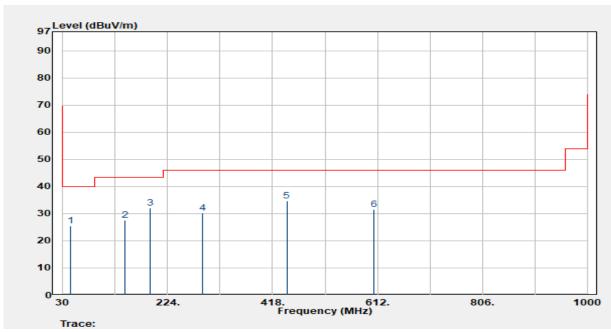
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-16

Test Frequency :2442 MHz Temp./Humi. :23.8/64

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol Engineer :H Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
43.580	Peak	34.38	-8.82	25.57	40.00	-14.43
144.460	Peak	35.66	-7.99	27.68	43.50	-15.82
191.990	Peak	42.31	-10.32	31.99	43.50	-11.51
288.020	Peak	37.14	-6.78	30.36	46.00	-15.64
444.190	Peak	38.20	-3.43	34.77	46.00	-11.23
605.210	Peak	31.43	0.10	31.52	46.00	-14.48

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Page: 43 of 60



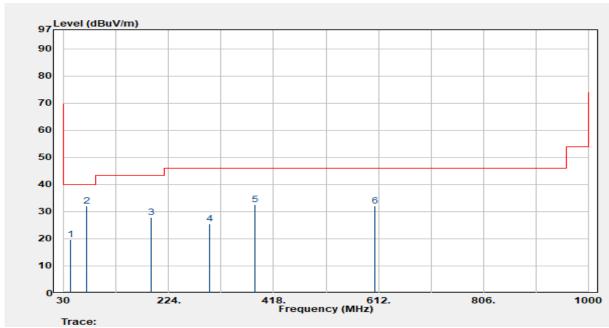
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-16

Test Frequency :2442 MHz Temp./Humi. :23.8/64

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol Engineer :H Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
42.672	QP	28.26	-8.63	19.63	40.00	-20.37
71.710	Peak	43.08	-10.90	32.19	40.00	-7.81
191.990	Peak	38.23	-10.32	27.91	43.50	-15.59
299.660	Peak	32.26	-6.70	25.56	46.00	-20.44
384.050	Peak	37.52	-4.81	32.70	46.00	-13.30
605.210	Peak	32.02	0.10	32.12	46.00	-13.88

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Page: 44 of 60



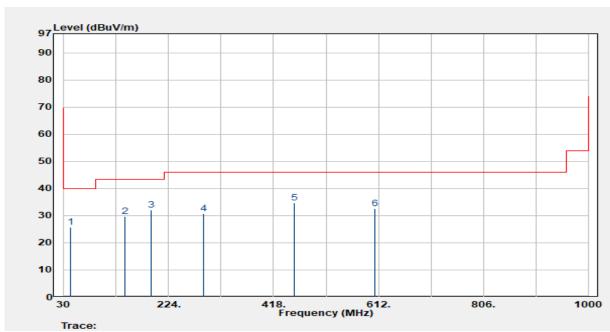
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-16

Test Frequency :2442 MHz Temp./Humi. :23.8/64

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol Engineer :H Plane :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
42.610	Peak	34.30	-8.65	25.65	40.00	-14.35
143.490	Peak	37.73	-8.07	29.67	43.50	-13.83
191.990	Peak	42.37	-10.32	32.05	43.50	-11.45
288.020	Peak	37.46	-6.78	30.68	46.00	-15.32
455.830	Peak	38.04	-3.33	34.71	46.00	-11.29
605.210	Peak	32.43	0.10	32.52	46.00	-13.48

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Page: 45 of 60



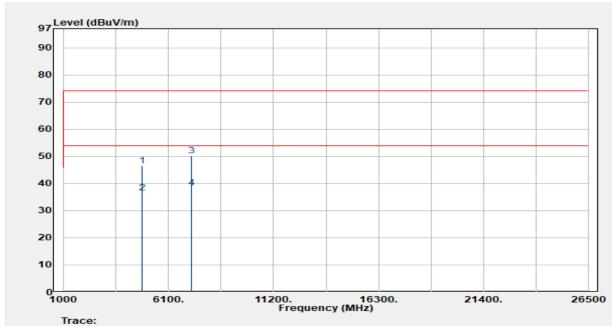
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4804.000	Peak	38.39	8.02	46.41	74.00	-27.59
4804.000	Average	28.64	8.02	36.66	54.00	-17.34
7206.000	Peak	35.62	14.48	50.10	74.00	-23.90
7206.000	Average	23.97	14.48	38.45	54.00	-15.55

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Page: 46 of 60



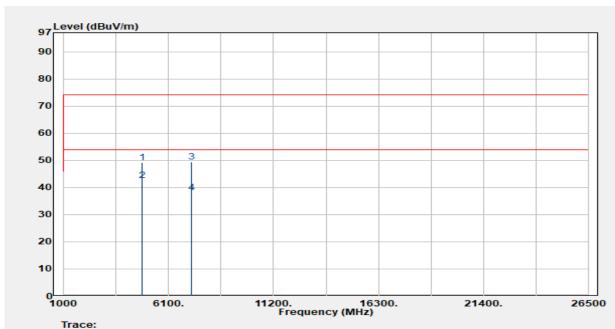
Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 1M Test Date :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4804.000	Peak	41.08	8.02	49.10	74.00	-24.90
4804.000	Average	34.55	8.02	42.57	54.00	-11.43
7206.000	Peak	35.02	14.48	49.50	74.00	-24.50
7206.000	Average	23.70	14.48	38.18	54.00	-15.82

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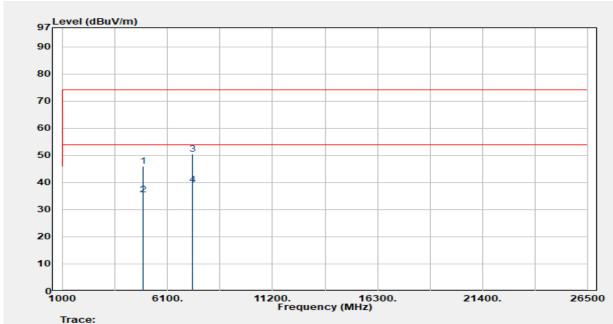
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2442 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.000	Peak	37.78	8.18	45.96	74.00	-28.04
4884.000	Average	27.20	8.18	35.38	54.00	-18.62
7326.000	Peak	35.31	15.19	50.50	74.00	-23.50
7326.000	Average	24.01	15.19	39.20	54.00	-14.80

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Page: 48 of 60



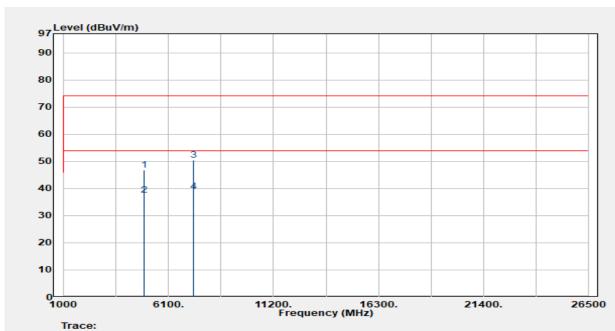
Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 1M Test Date :2022-09-14

Test Frequency :2442 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
						_
4884.000	Peak	38.59	8.18	46.77	74.00	-27.23
4884.000	Average	29.54	8.18	37.72	54.00	-16.28
7326.000	Peak	35.35	15.19	50.54	74.00	-23.46
7326.000	Average	23.73	15.19	38.92	54.00	-15.08

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Page: 49 of 60



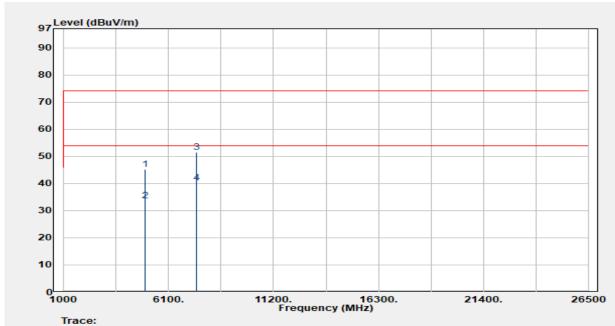
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2480 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.000	Peak	36.80	8.37	45.17	74.00	-28.83
4960.000	Average	25.18	8.37	33.55	54.00	-20.45
7440.000	Peak	36.00	15.57	51.57	74.00	-22.43
7440.000	Average	24.68	15.57	40.25	54.00	-13.75

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Page: 50 of 60



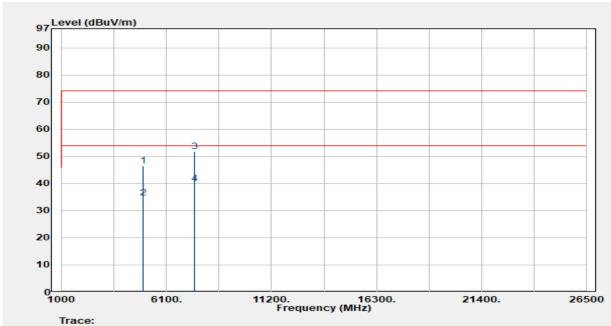
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 1M **Test Date** :2022-09-14

Test Frequency :2480 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane :Nick Lin Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4960.000	Peak	38.05	8.37	46.42	74.00	-27.58
4960.000	Average	26.23	8.37	34.60	54.00	-19.40
7440.000	Peak	36.25	15.57	51.82	74.00	-22.18
7440.000	Average	24.52	15.57	40.09	54.00	-13.91

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Page: 51 of 60



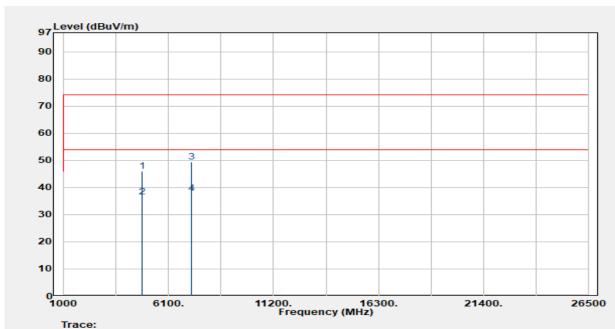
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.000	Peak	38.03	8.02	46.05	74.00	-27.95
4804.000	Average	28.51	8.02	36.53	54.00	-17.47
7206.000	Peak	34.89	14.48	49.37	74.00	-24.63
7206.000	Average	23.50	14.48	37.98	54.00	-16.02

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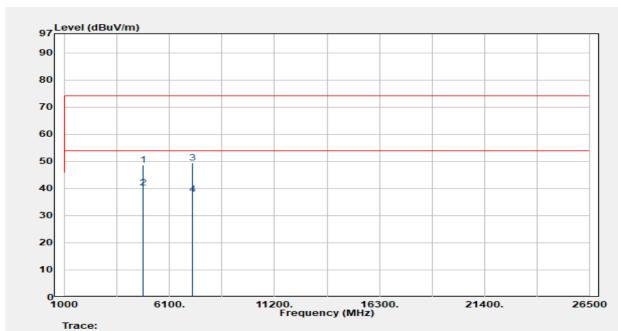
Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 2M Test Date :2022-09-14

Test Frequency :2402 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4804.000	Peak	40.50	8.02	48.52	74.00	-25.48
4804.000	Average	32.07	8.02	40.09	54.00	-13.91
7206.000	Peak	35.04	14.48	49.52	74.00	-24.48
7206.000	Average	23.49	14.48	37.97	54.00	-16.03

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Page: 53 of 60



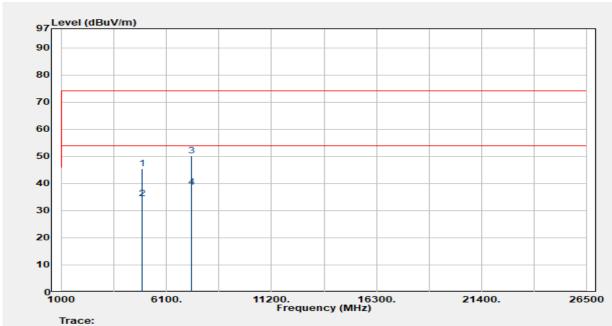
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-14

Test Frequency :2442 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.000	Peak	37.40	8.18	45.58	74.00	-28.42
4884.000	Average	26.36	8.18	34.54	54.00	-19.46
7326.000	Peak	35.00	15.19	50.19	74.00	-23.81
7326.000	Average	23.51	15.19	38.70	54.00	-15.30

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Page: 54 of 60

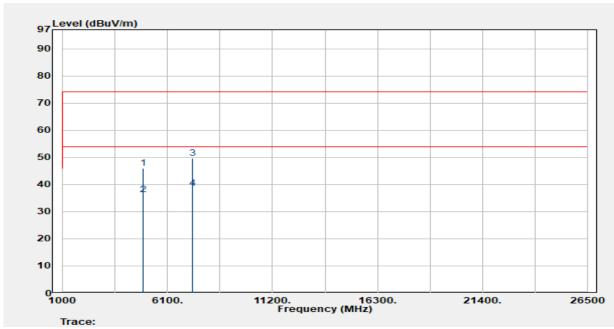
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-14

Test Frequency :2442 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane :Nick Lin Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.000	Peak	37.88	8.18	46.06	74.00	-27.94
4884.000	Average	28.10	8.18	36.28	54.00	-17.72
7326.000	Peak	34.45	15.19	49.64	74.00	-24.36
7326.000	Average	23.46	15.19	38.65	54.00	-15.35

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Page: 55 of 60



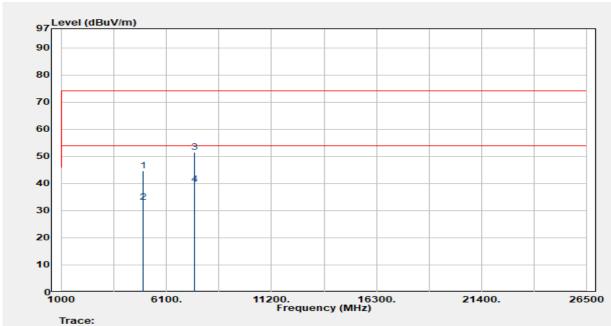
Report Number :TERF2209001660ER Test Site :SAC 3

Operation Mode :BLE 2M Test Date :2022-09-14

Test Frequency :2478 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :H Plane Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4956.000	Peak	36.27	8.41	44.68	74.00	-29.32
4956.000	Average	24.61	8.41	33.02	54.00	-20.98
7434.000	Peak	35.89	15.53	51.42	74.00	-22.58
7434.000	Average	24.07	15.53	39.60	54.00	-14.40

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Page: 56 of 60



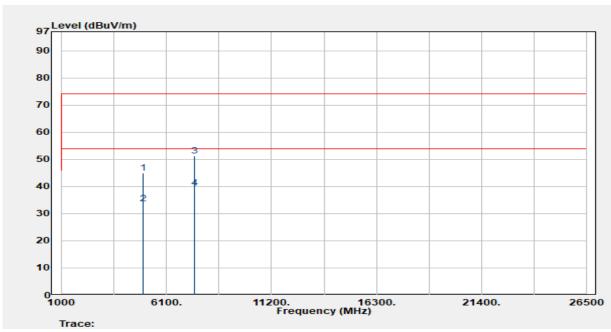
Report Number **Test Site** :SAC 3 :TERF2209001660ER

Operation Mode :BLE 2M **Test Date** :2022-09-14

Test Frequency :2478 MHz Temp./Humi. :24.7/68

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :H Plane :Nick Lin Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4956.000	Peak	36.60	8.41	45.01	74.00	-28.99
4956.000	Average	25.33	8.41	33.74	54.00	-20.26
7434.000	Peak	35.67	15.53	51.20	74.00	-22.80
7434.000	Average	24.03	15.53	39.56	54.00	-14.44

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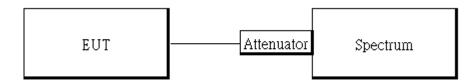
Page: 57 of 60

12 POWER SPECTRAL DENSITY

12.1 **Standard Applicable:**

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:**

- 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.

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Page: 58 of 60

Measurement Result:

BLF 1M mode

	ч		
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-5.82	8	PASS
2442	-6.00	8	PASS
2480	-4.38	8	PASS

NOTE: cable loss as 1.59dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-8.75	8	PASS
2442	-8.80	8	PASS
2478	-8.21	8	PASS

NOTE: cable loss as 1.59dB that offsets in the spectrum

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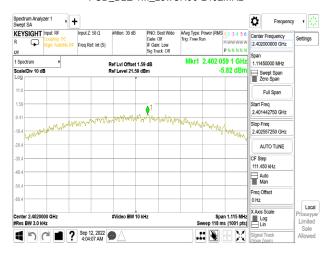
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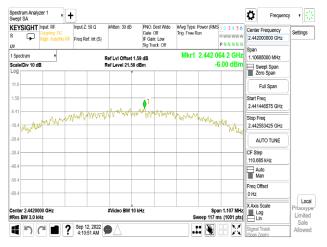
Page: 59 of 60



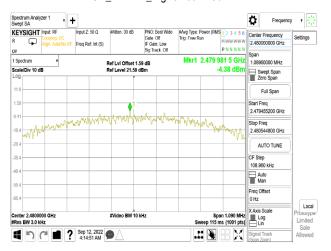
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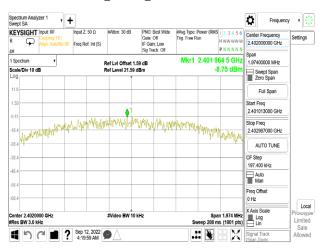
PSD_BLE 1M_MidCH20-2442MHz



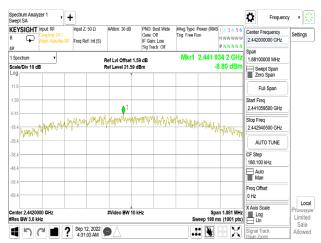
PSD_BLE 1M_HighCH39-2480MHz



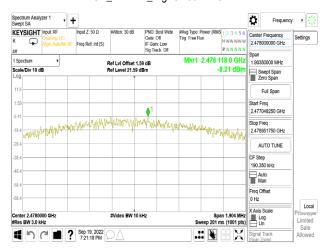
PSD_BLE 2M_LowCH00-2402MHz



PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 2M_HighCH38-2478MHz



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Page: 60 of 60



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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