

Page: 1 of 34

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**





Applicant: Realtek Semiconductor Corp.

No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu

300, Taiwan

Manufacturer: Realtek Semiconductor Corp.

No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu

300, Taiwan

Product Name: 11ax RTL8852CE Combo module

REALTEK **Brand Name:**

Model No.: RTL8852CE

FCC Host Model: GA63H, GA6xxx ("x" means 20 alphanumeric, maybe 0-9,

A-Z, -, _, + or blank)

Report Number: TERF2503001179E2

TX2-RTL8852CE FCC ID

Date of EUT Received: March 25, 2025

Date of Test: March 26, 2025~April 15, 2025

Issue Date: May 9, 2025

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

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

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

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Page: 2 of 34

Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2503001179E2	00	Original	May 9, 2025	Susan Lin			

Note:

- 1 . The remark "*" indicates modification of the report upon requests from certification
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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Page: 3 of 34

Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	7
3	SUMMARY OF TEST RESULTS	. 10
4	DESCRIPTION OF TEST MODES	11
5	MEASUREMENT UNCERTAINTY	. 13
6	MEASUREMENT EQUIPMENT USED	. 14
7	PEAK OUTPUT POWER MEASUREMENT	. 15
8	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	. 19

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Page: 4 of 34

1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	Wireless module installed in Notebook
Brand Name:	REALTEK
Model No.:	RTL8852CE
Host Brand Name:	GIGABYTE
FCC Host Model:	GA63H, GA6xxx ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank)
Family FCC Host Model Difference:	For marketing purposes only
Hardware Version:	N/A
Firmware Version:	v0.27.109.1
EUT Series No.:	EC016EEE-B7B9-487C-A828-F75F824F0D3D
Power Supply:	15.56 Vdc from Rechargeable Li-ion Battery 20 Vdc from AC/DC Adapter
Test Software (Name/Version):	Realtek Bluetooth RF Test Tool RtlBluetoothMP.dll Version:5.3.2.24 RTLBTAPP Version:5.2.3.77

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 13.53 dBm BLE 2M: 13.65 dBm

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Page: 5 of 34

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	High-tek	0ACCN024022N (DC33002YL30)	2402~2480	2.77
FIFA	PULSE	TZ3138E (DC330031410)	2402~2460	2.58

Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.

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Page: 6 of 34

1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1	-	TW3702
		SAC 2		
		SAC 3		
	No 404 Western Dead New Trings	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0027	
	Industrial Park, Wuku District, New	Conducted 2	1 00027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	iaoyuan Gily, 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: 7 of 34

SYSTEM TEST CONFIGURATION

2.1 **EUT Configuration**

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

2.2 **EUT Exercise**

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

2.3 **Test Procedure**

2.3.1 **Conducted Emissions**

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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Page: 8 of 34

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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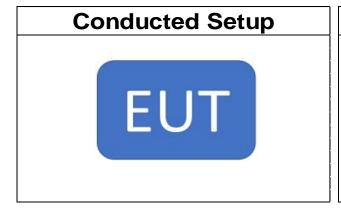
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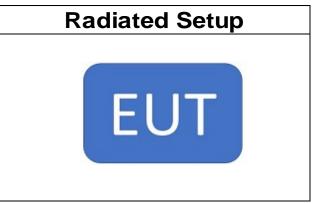
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Page: 9 of 34

2.5 **Test Configuration**





2.6 Control Unit(s)

N/A

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Page: 10 of 34

SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(d) §15.209	Radiated Band Edge and Spurious Emission	Compliant

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Page: 11 of 34

DESCRIPTION OF TEST MODES

4.1 **Operating Frequencies**

			1		1
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		
13	2428 MHz	27	2456 MHz		

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Page: 12 of 34

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.

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,19,39	GFSK	1		
Bluetooth LE	1 to 38	1,19,38	GFSK	2		

MODE	AVAILABLE	TESTED	MODULATION	PACKET	
	CHANNEL	CHANNEL		TYPE	
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
Bluetooth LE	0 to 39	19	GFSK	1	
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
Bluetooth LE	0 to 39	0,19,39	GFSK	1	
Bluetooth LE	1 to 38	1,38	GFSK	2	

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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Page: 13 of 34

5 MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	:у
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
	+/-	1.89	dB	9kHz~30MHz		
Polarization: Vertical	+/-	4.1	dB	30MHz - 1000MHz		
Folarization. Vertical	+/-	3.37	dB	1GHz - 18GHz		
	+/-	3.83	dB	18GHz - 40GHz		
	+/-	1.89	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.1	dB	30MHz - 1000MHz		
Folarization. Horizontal	+/-	3.37	dB	1GHz - 18GHz		
	+/-	3.83	dB	18GHz - 40GHz		
	+/-	2	dB	33GHz-50GHz		
	+/-	1.59	dB	50GHz-60GHz		
Radiated Spurious Emission	+/-	1.71	dB	60GHz-90GHz		
	+/-	1.64	dB	90GHz-140GHz		
	+/-	3.84	dB	140GHz-220GHz		

Note:

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

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Page: 14 of 34

MEASUREMENT EQUIPMENT USED

6.1 **Conducted Measurement**

	Conducted Emission Test Site: Conducted E									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)					
Attenuator	Marvelous	MVE2213-10	RF06	11/14/2024	11/13/2025					
DC Block	PASTERNACK	PE8210	RF157	11/14/2024	11/13/2025					
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025					
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025					
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025					
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R					
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	09/18/2024	09/17/2025					

6.2 **Radiated Measurement**

Radiated Emission Test Site: SAC G									
EQUIPMENT TYPE MFR		MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)				
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026				
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025				
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026				
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM- NM- 8000+EMCCFD400- NM-NM- 5000+SUCOFLEX10 0+EMC104-SM-SM- 2000+EMC104-SM- SM-8000+EMC104- SM-SM-5000	210216+210217+8 4103701/15+16010 5+210217+210220	11/14/2024	11/13/2025				
High Pass Filter	WI	WHKX10-2624- 3200-18000-80SS	RF176	11/14/2024	11/13/2025				
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025				
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025				
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025				
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/14/2024	11/13/2025				
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025				
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/14/2024	11/13/2025				
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/28/2024	06/27/2025				
Test Software	audix	е3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R				

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

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Page: 15 of 34

PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

7.1.1 **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.

7.1.2 **FCC**

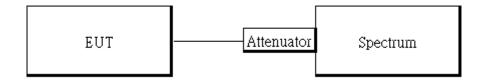
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

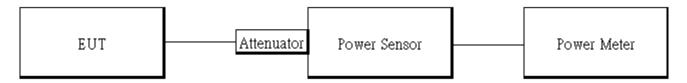
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 **Test Setup**

7.2.1 **Duty Cycle**



7.2.2 **Output Power**



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Page: 16 of 34

7.3 **Measurement Procedure:**

7.3.1 **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

7.3.2 **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.

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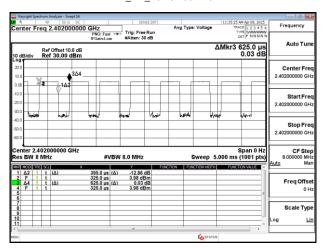


Page: 17 of 34

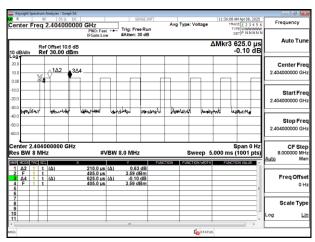
7.4 **Duty Factor:**

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.20	1.99	2.53	3.00
BLE 2M	33.60	4.74	4.76	5.00

BLE_1M_LowCH00-2402



BLE_2M_LowCH00-2404



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Page: 18 of 34

7.5 **Output Power:**

7.5.1 Peak & Avg

BLE 1M mode:

СН	CH Frequency Power (MHz) Setting		Peak Output Power (dBm)	Required Limit (dBm)	
0	2402	0x55/0x1b	13.42	30	
19	2440	0x55/0x1b	13.53	30	
39	2480	0x55/0x1b	13.22	30	
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)	
0	2402	0x55/0x1b	12.34	30	
19	2440	0x55/0x1b	12.41	30	
39	2480	0x55/0x1b	12.05	30	

^{*}Note:

BLE 2M mode:

СН	CH Frequency Power (MHz) Setting		Peak Output Power (dBm)	Required Limit (dBm)
1	2404	0x55/0x1a	13.51	30
19	2440	0x55/0x1a	13.65	30
38	2478 0x55/0x1b		13.58	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
1	2404	0x55/0x1a	12.23	30
19	2440	0x55/0x1a	12.37	30
38	2478	0x55/0x1b	12.35	30

^{*}Note:

1. Measured by power meter, cable loss 0 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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^{1.} Measured by power meter, cable loss dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.



Page: 19 of 34

RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Spurious Emission

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

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

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

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

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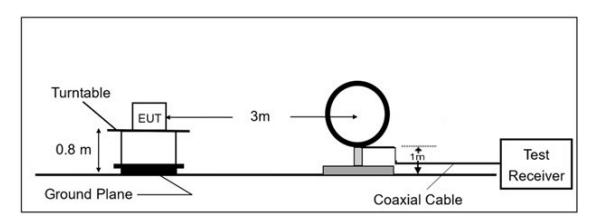


Page: 20 of 34

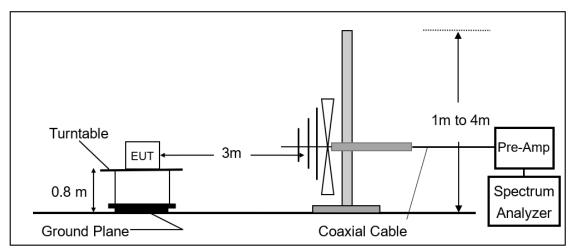


8.1 **Test Setup**

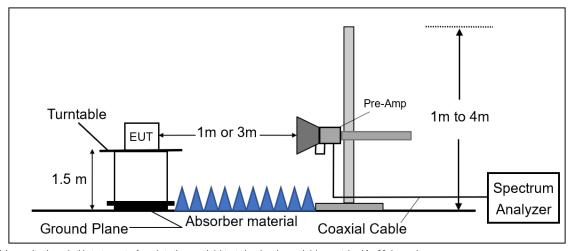
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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Page: 21 of 34

Measurement Procedure 8.2

- 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.
- 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.

8.3 **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

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Page: 22 of 34

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/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

8.4 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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Page: 23 of 34

8.4.1 **Radiated Band Edge Measurement Result**

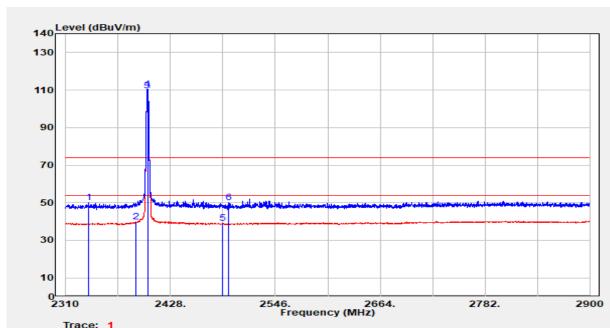
Report Number :TERF2503001179E2 Test Site :SAC G

Operation Mode :BLE 1M **Test Date** :2025-04-07

Test Frequency :2402 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :Temo Chen :NB Mode Engineer



mucc.	•					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2335.38	Peak	53.42	-3.18	50.24	74.00	-23.76
2389.09	Average	42.78	-3.13	39.65	54.00	-14.35
2402.00	Average	112.73	-3.23	109.50	-	-
2402.00	Peak	113.53	-3.23	110.30	-	-
2486.86	Average	42.55	-3.37	39.18	54.00	-14.82
2493.35	Peak	53.35	-3.38	49.97	74.00	-24.03

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Page: 24 of 34

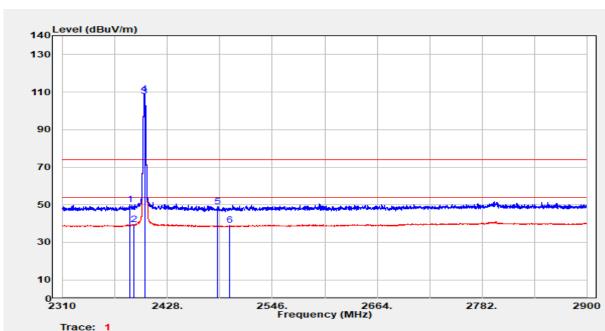
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-07 **Operation Mode Test Date** :BLE 1M

Test Frequency :2402 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :NB Mode Engineer :Temo Chen



irace:	1					
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2385.15	Peak	53.12	-3.18	49.94	74.00	-24.06
2389.68	Average	42.63	-3.12	39.51	54.00	-14.49
2402.00	Average	111.05	-3.23	107.82	-	-
2402.00	Peak	112.02	-3.23	108.79	-	-
2484.11	Peak	52.32	-3.37	48.95	74.00	-25.05
2497.68	Average	42.44	-3.38	39.06	54.00	-14.94

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Page: 25 of 34

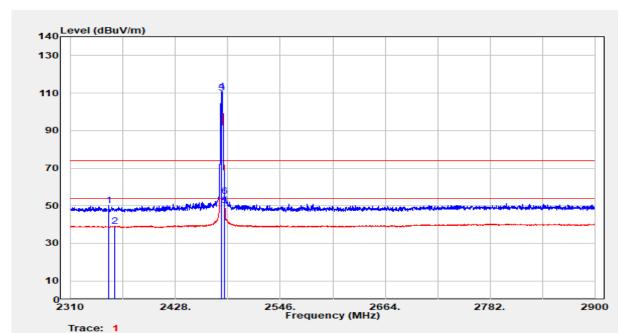
Report Number :TERF2503001179E2 Test Site :SAC G

Operation Mode :BLE 1M Test Date :2025-04-07

Test Frequency :2480 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2352.49	Peak	53.10	-3.17	49.93	74.00	-24.07
2359.97	Average	42.29	-3.16	39.13	54.00	-14.87
2480.00	Average	113.38	-3.37	110.01	-	-
2480.00	Peak	114.23	-3.37	110.86	-	-
2483.50	Average	53.42	-3.37	50.05	54.00	-3.95
2483.50	Peak	58.24	-3.37	54.87	74.00	-19.13

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Page: 26 of 34

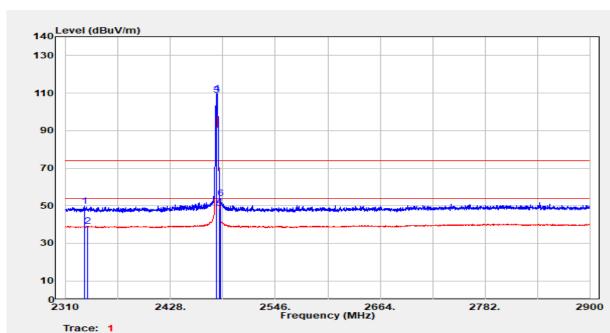
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-07 **Operation Mode Test Date** :BLE 1M

Test Frequency :2480 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2331.44	Peak	52.90	-3.20	49.70	74.00	-24.30
2334.99	Average	42.36	-3.19	39.17	54.00	-14.83
2480.00	Average	112.11	-3.37	108.74	-	-
2480.00	Peak	113.02	-3.37	109.65	-	-
2483.50	Average	52.03	-3.37	48.66	54.00	-5.34
2484.11	Peak	57.09	-3.37	53.72	74.00	-20.28

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Page: 27 of 34

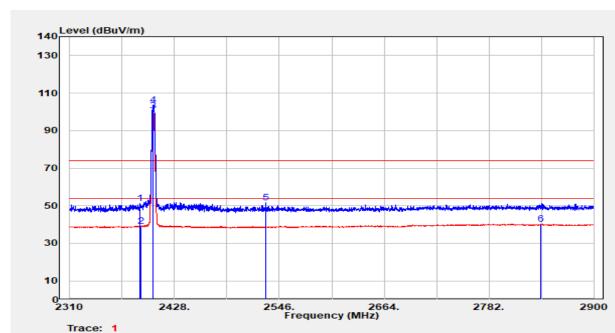
Report Number :TERF2503001179E2 Test Site :SAC G

Operation Mode :BLE 2M Test Date :2025-04-07

Test Frequency :2404 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
2388.89	Peak	54.40	-3.13	51.27	74.00	-22.73
2389.87	Average	42.32	-3.12	39.20	54.00	-14.80
2404.00	Average	103.85	-3.26	100.59	-	-
2404.00	Peak	106.66	-3.26	103.40	-	-
2530.73	Peak	54.82	-3.24	51.58	74.00	-22.42
2840.00	Average	42.12	-1.77	40.35	54.00	-13.65

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台灣檢驗科技股份有限公司

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Page: 28 of 34

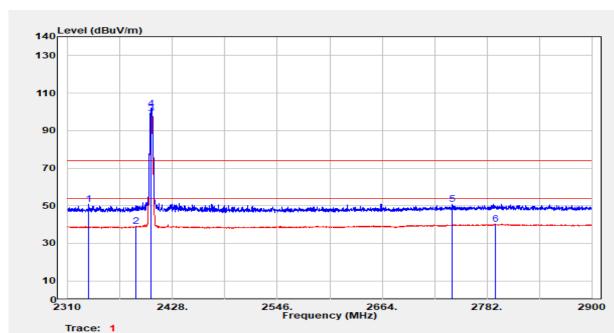
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-07 **Operation Mode Test Date** :BLE 2M

Test Frequency :2404 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2333.41	Peak	54.13	-3.19	50.94	74.00	-23.06
2386.53	Average	42.21	-3.16	39.05	54.00	-14.95
2404.00	Average	102.10	-3.26	98.84	-	-
2404.00	Peak	104.84	-3.26	101.58	-	-
2743.20	Peak	52.96	-2.00	50.96	74.00	-23.04
2791.80	Average	41.94	-1.77	40.17	54.00	-13.83

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Page: 29 of 34

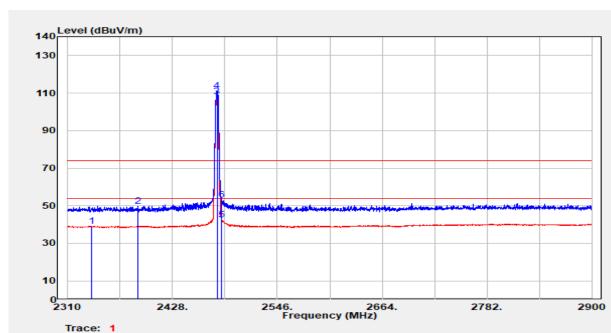
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-07 **Operation Mode Test Date** :BLE 2M

Test Frequency :2478 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Vertical

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2336.76	Average	42.32	-3.19	39.13	54.00	-14.87
2389.09	Peak	52.81	-3.13	49.68	74.00	-24.32
2478.00	Average	111.59	-3.39	108.20	-	-
2478.00	Peak	114.38	-3.39	110.99	-	-
2483.50	Average	45.82	-3.37	42.45	54.00	-11.55
2483.50	Peak	56.66	-3.37	53.29	74.00	-20.71

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Page: 30 of 34

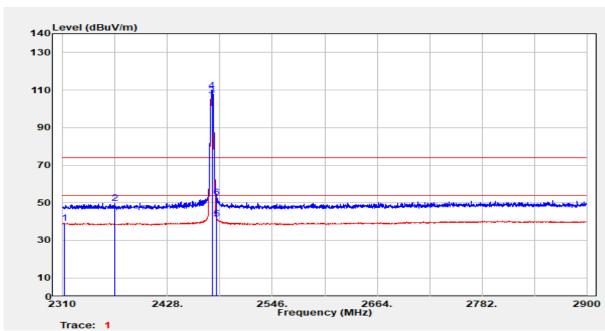
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-07 **Operation Mode Test Date** :BLE 2M

Test Frequency :2478 Temp./Humi. :23.1°C/58%

Test Mode :Bandedge Antenna Pol. :Horizontal

EUT Pol :NB Mode Engineer :Temo Chen



Detector	Spectrum	Factor	Actual	Limit	Margin
Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
Average	42.34	-3.13	39.21	54.00	-14.79
Peak	52.94	-3.23	49.71	74.00	-24.29
Average	110.27	-3.39	106.88	-	-
Peak	113.06	-3.39	109.67	-	-
Average	44.61	-3.37	41.24	54.00	-12.76
Peak	56.15	-3.37	52.78	74.00	-21.22
	Mode PK/QP/AV Average Peak Average Peak Average	Mode PK/QP/AV Reading Level dBµV Average 42.34 Peak 52.94 Average 110.27 Peak 113.06 Average 44.61	Mode PK/QP/AV Reading Level dBμV dB Average 42.34 -3.13 Peak 52.94 -3.23 Average 110.27 -3.39 Peak 113.06 -3.39 Average 44.61 -3.37	Mode PK/QP/AVReading Level dBμVFS dBμV/mAverage42.34-3.1339.21Peak52.94-3.2349.71Average110.27-3.39106.88Peak113.06-3.39109.67Average44.61-3.3741.24	Mode PK/QP/AVReading Level dBμVFS dBμV/m@3m dBμV/mAverage42.34-3.1339.2154.00Peak52.94-3.2349.7174.00Average110.27-3.39106.88-Peak113.06-3.39109.67-Average44.61-3.3741.2454.00

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EUT Pol

Report No.: TERF2503001179E2

:Temo Chen

Page: 31 of 34

Engineer

8.4.2 **Radiated Spurious Emission**

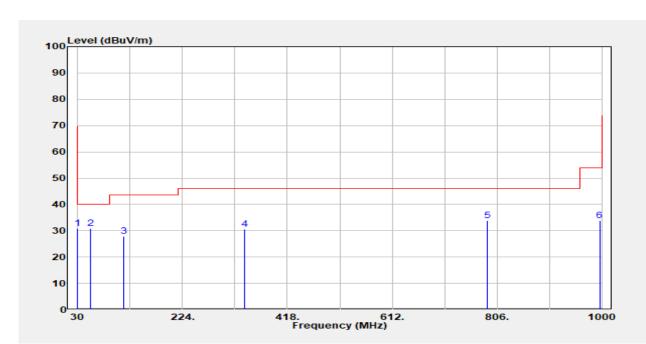
:NB Mode

Report Number :TERF2503001179E2 Test Site :SAC G

Operation Mode :BLE 1M **Test Date** :2025-04-11

Test Frequency :2440 Temp./Humi. :22.5°C/59%

Test Mode :Tx Antenna Pol. :Vertical



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
Peak	45.22	-14.31	30.91	40.00	-9.09
Peak	43.53	-12.63	30.90	40.00	-9.10
Peak	43.71	-15.89	27.82	43.50	-15.68
Peak	41.66	-10.92	30.74	46.00	-15.26
Peak	35.46	-1.65	33.81	46.00	-12.19
Peak	32.88	1.05	33.93	54.00	-20.07
	Mode PK/QP/AV Peak Peak Peak Peak Peak	Mode PK/QP/AV Reading Level dBµV Peak 45.22 Peak 43.53 Peak 43.71 Peak 41.66 Peak 35.46	Mode PK/QP/AV Reading Level dBμV dB Peak 45.22 -14.31 Peak 43.53 -12.63 Peak 43.71 -15.89 Peak 41.66 -10.92 Peak 35.46 -1.65	Mode PK/QP/AV Reading Level dBμV FS dBμV/m Peak 45.22 -14.31 30.91 Peak 43.53 -12.63 30.90 Peak 43.71 -15.89 27.82 Peak 41.66 -10.92 30.74 Peak 35.46 -1.65 33.81	Mode PK/QP/AV Reading Level dBμV FS dBμV/m @3m dBμV/m Peak 45.22 -14.31 30.91 40.00 Peak 43.53 -12.63 30.90 40.00 Peak 43.71 -15.89 27.82 43.50 Peak 41.66 -10.92 30.74 46.00 Peak 35.46 -1.65 33.81 46.00

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Page: 32 of 34

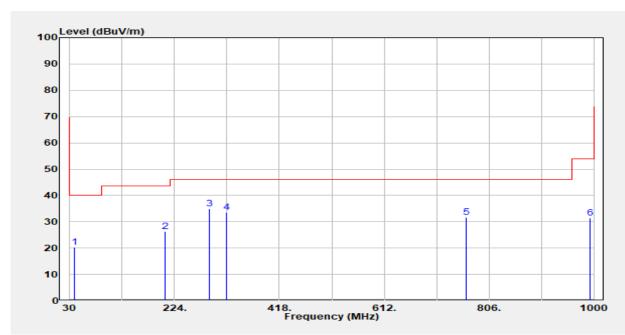
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-11 **Operation Mode Test Date** :BLE 1M

Test Frequency :2440 Temp./Humi. :22.5°C/59%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
38.73	Peak	34.05	-13.68	20.37	40.00	-19.63
205.57	Peak	42.42	-16.02	26.40	43.50	-17.10
288.02	Peak	47.05	-12.17	34.88	46.00	-11.12
320.03	Peak	44.83	-11.23	33.60	46.00	-12.40
763.32	Peak	33.57	-1.87	31.70	46.00	-14.30
994.18	Peak	30.30	1.02	31.32	54.00	-22.68

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Page: 33 of 34

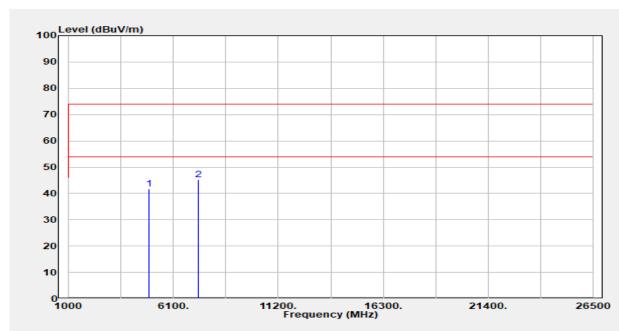
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-10 **Operation Mode Test Date** :BLE 1M

Test Frequency :2440 Temp./Humi. :22.5°C/59%

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBµV/m	dB
4880.00	Peak	37.86	3.84	41.70	74.00	-32.30
7320.00	Peak	35.49	9.68	45.17	74.00	-28.83

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Page: 34 of 34

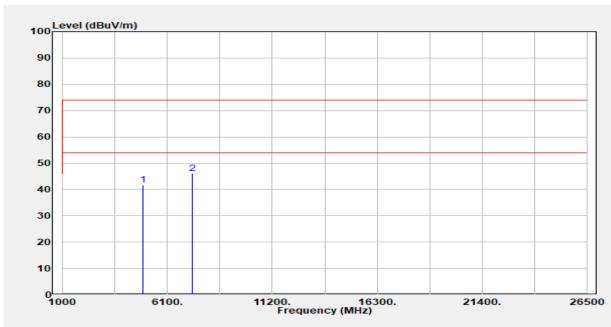
Report Number :TERF2503001179E2 Test Site :SAC G

:2025-04-10 **Operation Mode Test Date** :BLE 1M

Test Frequency :2440 Temp./Humi. :22.5°C/59%

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Mode Engineer :Temo Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4880.00	Peak	37.79	3.84	41.63	74.00	-32.37
7320.00	Peak	36.39	9.68	46.07	74.00	-27.93

~ End of Report ~

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