

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Bridge
Applicant: Ring LLC
12515 Cerise Ave, Hawthorne, CA90250 United States
Manufacturer: Ring LLC
12515 Cerise Ave, Hawthorne, CA90250 United States
Brand Name: ring
Model No./ISED HVIN: 7RCEAB
ISED PMN: 7RCEAB
Report Number: TERF2508002544E2
FCC ID 2AEUP-7RCEAB
IC: 20271-7RCEAB
Date of EUT Received: August 8, 2025
Date of Test: August 8, 2025~August 12, 2025
Issue Date: August 15, 2025

Approved By _____

Aken Huang

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 C63.10:2020 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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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2508002544E2	00	FCC / ISED C2PC for changed FEM	August 15, 2025	Candice Li	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、This is an addendum test report reference to the test report *TERF2501000109E2*.

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Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION.....	6
3	SUMMARY OF TEST RESULTS.....	8
4	DESCRIPTION OF TEST MODES.....	9
5	MEASUREMENT UNCERTAINTY	11
6	MEASUREMENT EQUIPMENT USED	12
7	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	13

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Bridge
Brand Name:	ring
Model No./ISED HVIN:	7RCEAB
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	No.1
Power Supply:	100~240V AC
Test Software (Name/Version)	Tera Term V4.106

1.2 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK

1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	2402~2480	3.8

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. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 4 July 2025

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2020.

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

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

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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.

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

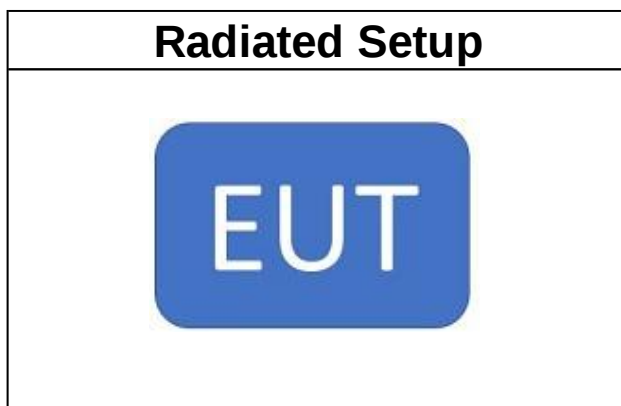
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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2.5 Test Configuration



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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(d) §15.209	RSS-247 §6.6 RSS-Gen §8.9	Radiated Spurious Emission	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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4.2 The Worst Test Modes and Channel Details

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth LE_1M	0 to 39	19	GFSK	1
Bluetooth LE_2M	0 to 39	19	GFSK	2
Bluetooth LE_125k	0 to 39	19	GFSK	0.125
Bluetooth LE_500k	0 to 39	19	GFSK	0.5
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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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
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				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.1	dB	30MHz - 1000MHz
	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.1	dB	30MHz - 1000MHz
	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	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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6 MEASUREMENT EQUIPMENT USED

6.1 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104- SM-SM- 500+SUCOFLEX 104+16+EMC105- SM-SM- 11000+EMC106-SM- SM-2300	W22.01+W21.01+15 0707+MY969/4+16+ 190825+150702	11/14/2024	11/13/2025
High Pass Filter	Titan Microwave	T04H30001800070S0 1	RF188	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
Test Software	audix	e3	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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7 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 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

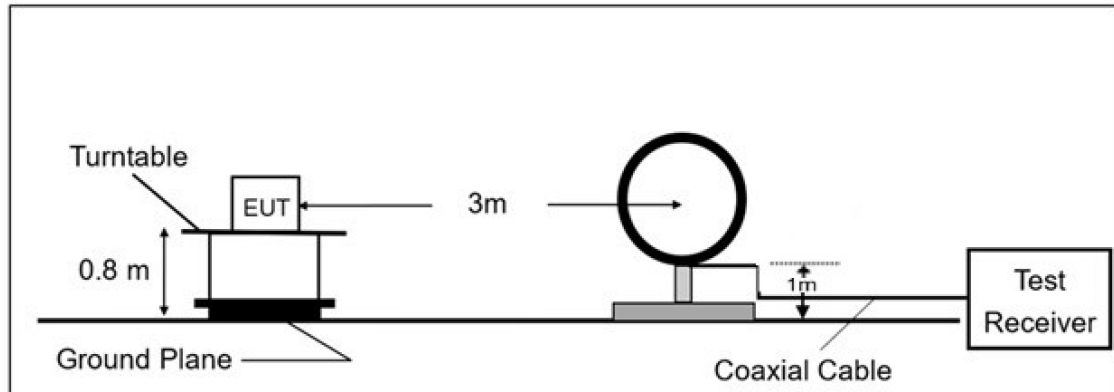
Note: The lower limit shall apply at the transition frequencies.

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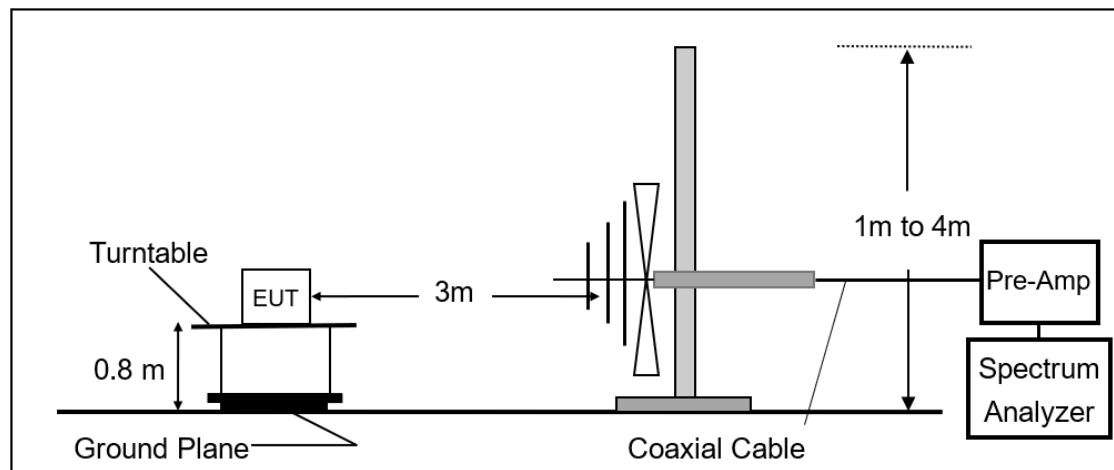
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7.1 Test Setup

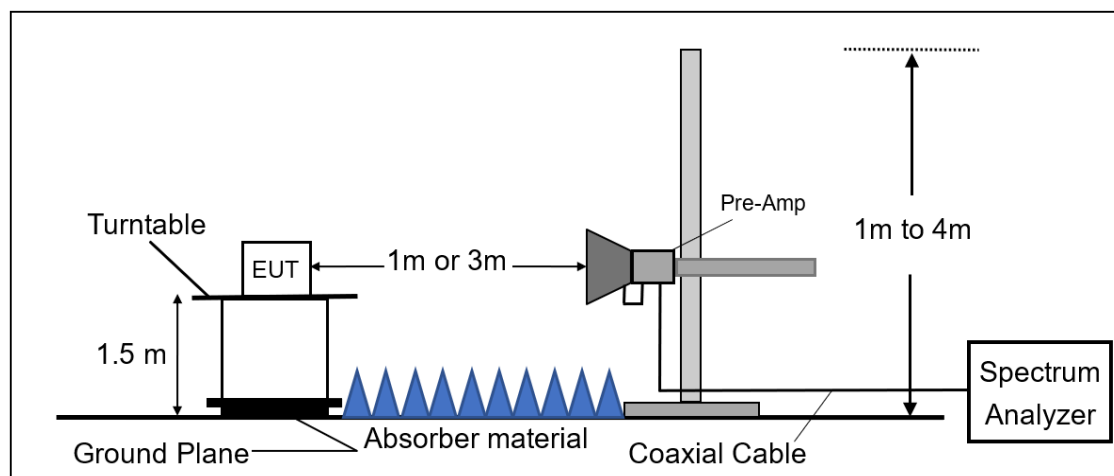
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.2 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.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$ **when $D < 98\%$** for Average Emission Measurements at frequency above 1 GHz.
10. 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.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. Repeat above procedures until all default test channel measured were complete.

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7.3 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

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(\mu V/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

7.4 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) & RSS-GEN §6.13.2 was not reported.

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

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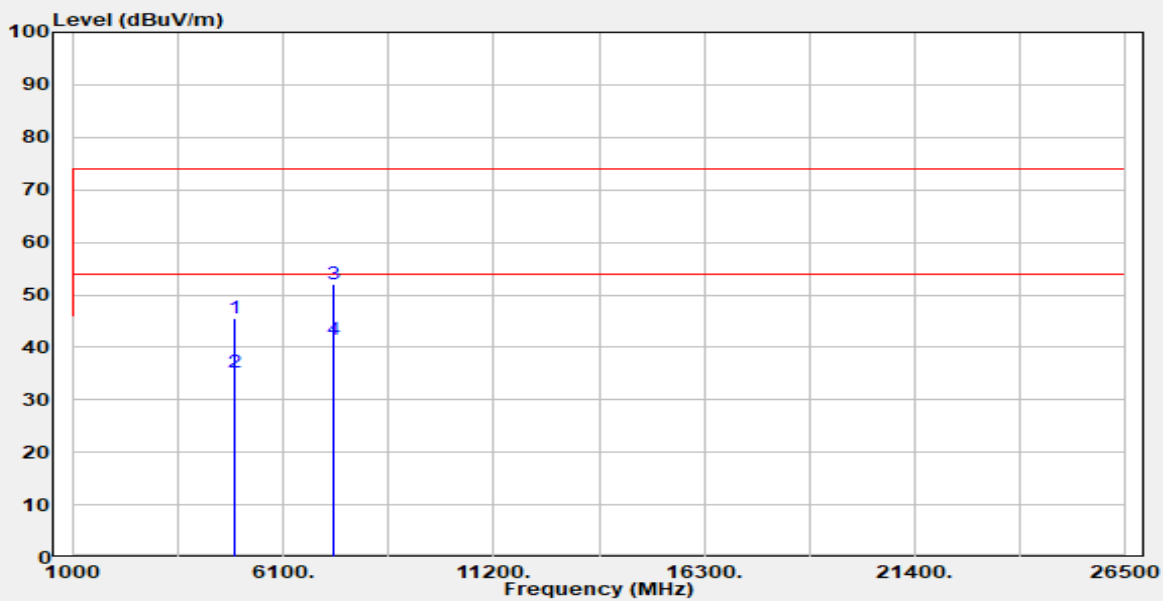
www.sgs.com.tw

Member of SGS Group

7.4.1 Radiated Spurious Emission

Report Number :TERF2508002544E2
Operation Mode :BLE 1M
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Vertical
Engineer :Temo Chen



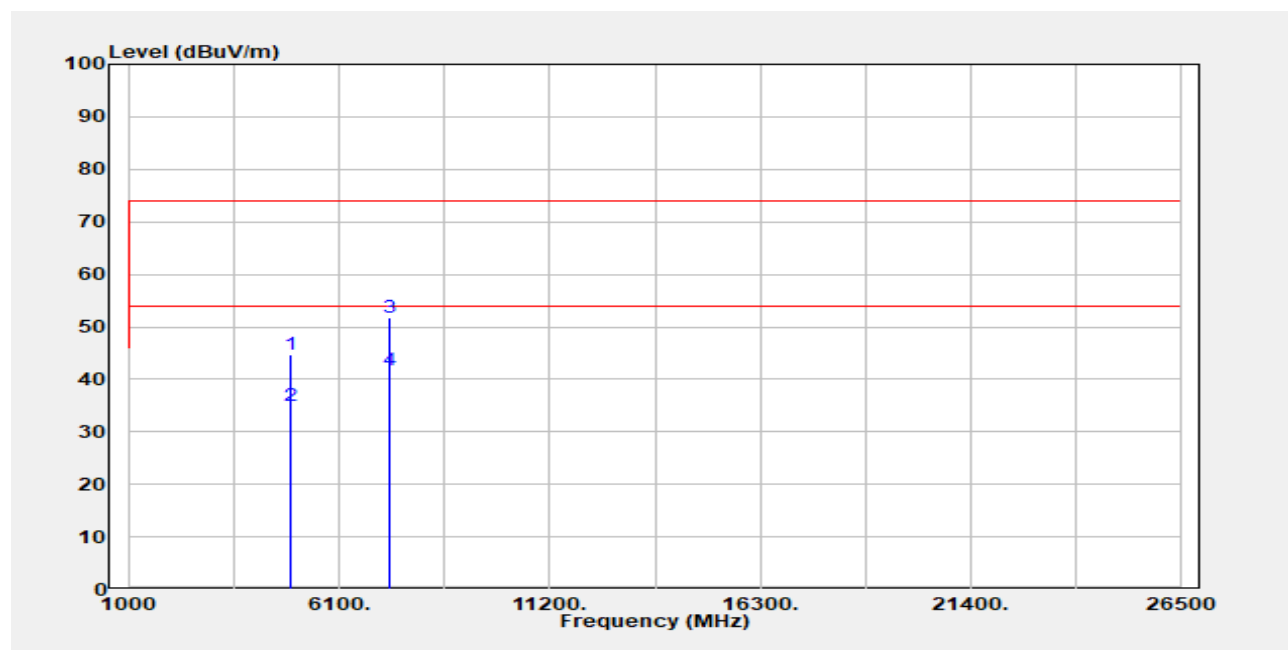
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	36.03	9.54	45.57	74.00	-28.43
4880.00	Average	25.61	9.54	35.15	54.00	-18.85
7320.00	Peak	34.47	17.44	51.91	74.00	-22.09
7320.00	Average	24.09	17.44	41.53	54.00	-12.47

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Report Number :TERF2508002544E2
Operation Mode :BLE 1M
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	35.13	9.54	44.67	74.00	-29.33
4880.00	Average	25.43	9.54	34.97	54.00	-19.03
7320.00	Peak	34.43	17.44	51.87	74.00	-22.13
7320.00	Average	24.40	17.44	41.84	54.00	-12.16

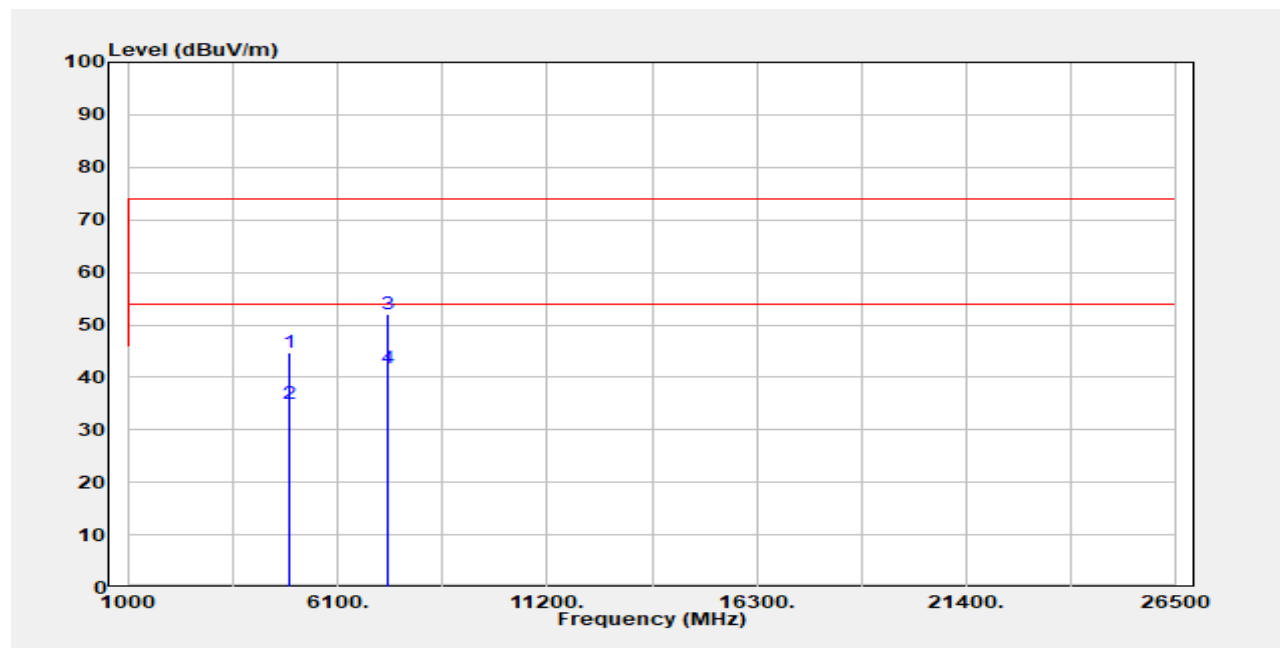
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Report Number :TERF2508002544E2
Operation Mode :BLE 2M
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.000	Peak	35.22	9.54	44.76	74.00	-29.24
4880.000	Average	25.48	9.54	35.02	54.00	-18.98
7320.000	Peak	34.63	17.44	52.07	74.00	-21.93
7320.000	Average	24.37	17.44	41.81	54.00	-12.19

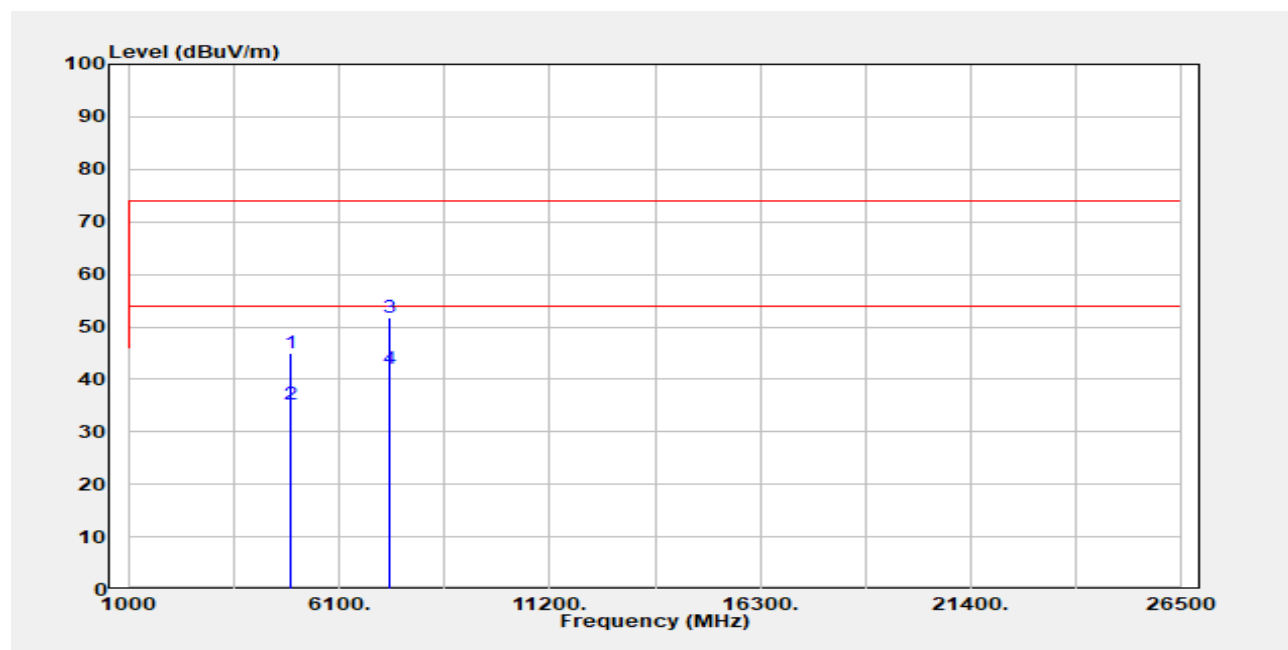
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Report Number :TERF2508002544E2
Operation Mode :BLE 2M
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	35.31	9.54	44.85	74.00	-29.15
4880.00	Average	25.60	9.54	35.14	54.00	-18.86
7320.00	Peak	34.24	17.44	51.68	74.00	-22.32
7320.00	Average	24.53	17.44	41.97	54.00	-12.03

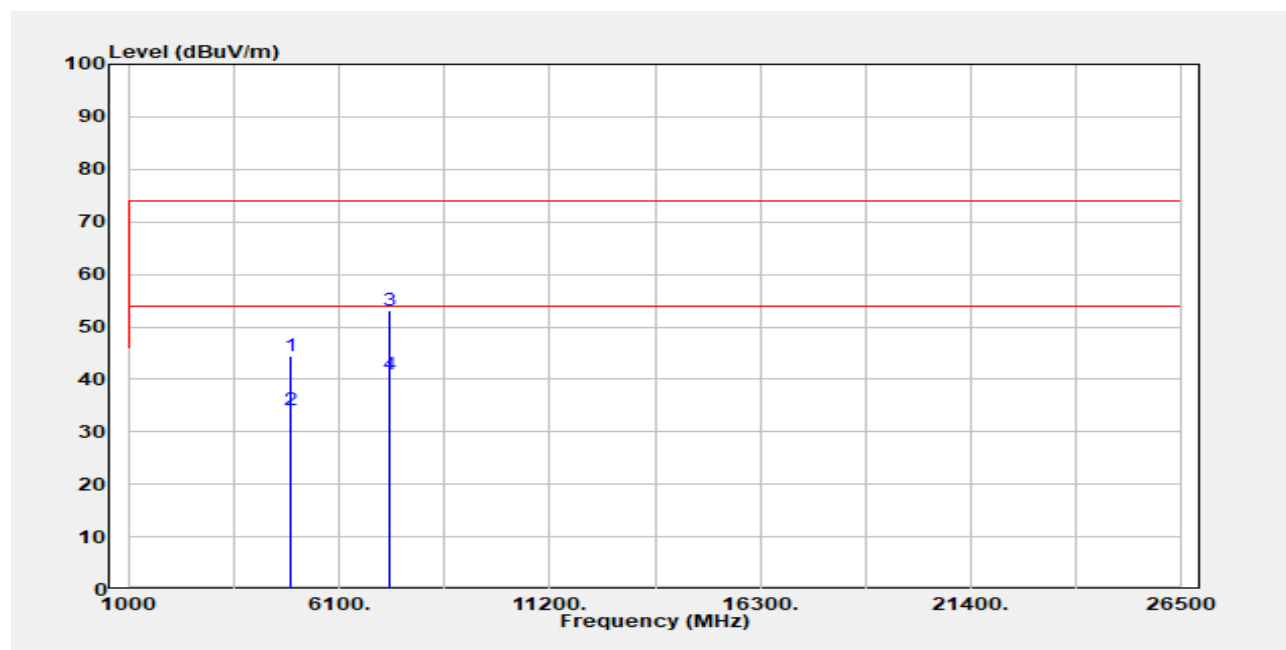
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Report Number :TERF2508002544E2
Operation Mode :BLE 125k
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	34.98	9.54	44.52	74.00	-29.48
4880.00	Average	24.57	9.54	34.11	54.00	-19.89
7320.00	Peak	35.75	17.44	53.19	74.00	-20.81
7320.00	Average	23.54	17.44	40.98	54.00	-13.02

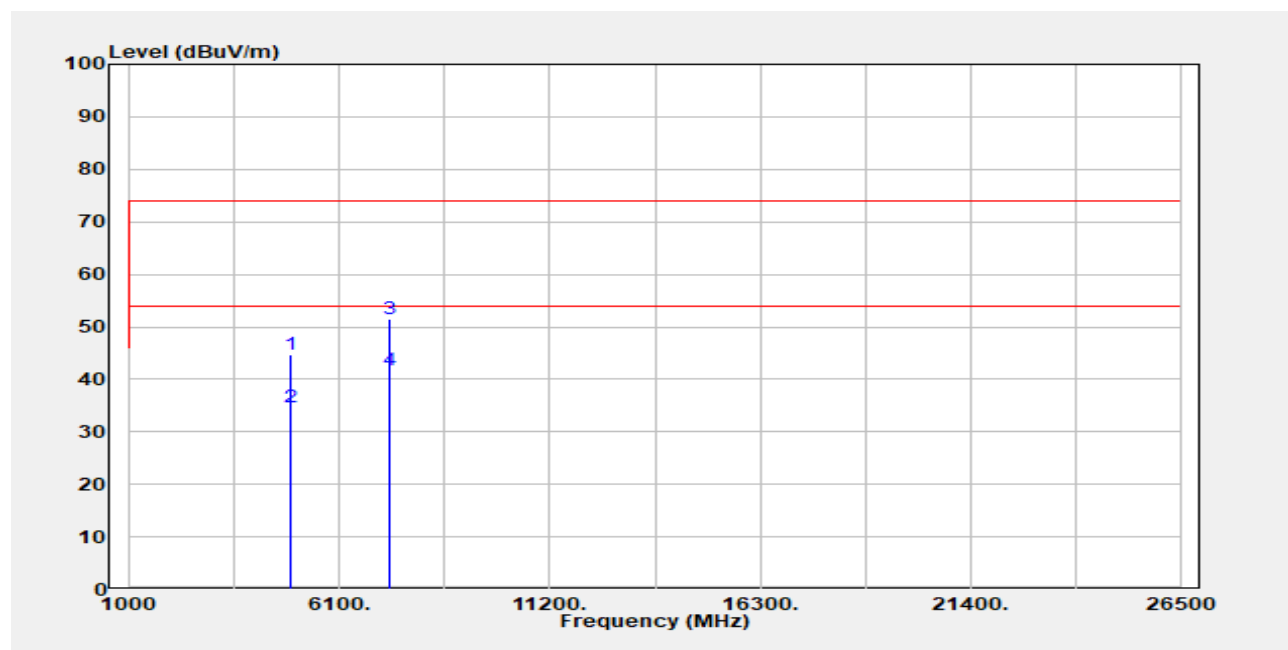
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Report Number :TERF2508002544E2
Operation Mode :BLE 125k
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Horizontal
Engineer :Temo Chen



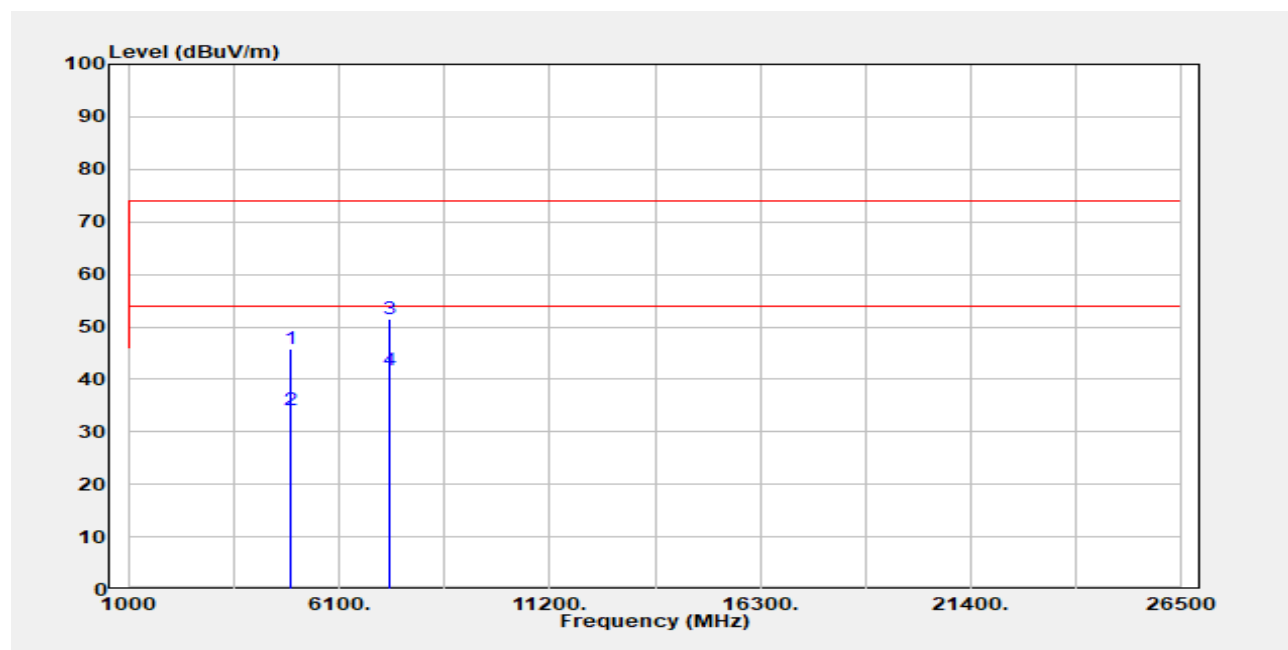
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	35.26	9.54	44.80	74.00	-29.20
4880.00	Average	25.16	9.54	34.70	54.00	-19.30
7320.00	Peak	34.10	17.44	51.54	74.00	-22.46
7320.00	Average	24.38	17.44	41.82	54.00	-12.18

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Report Number :TERF2508002544E2
Operation Mode :BLE 500k
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	36.19	9.54	45.73	74.00	-28.27
4880.00	Average	24.48	9.54	34.02	54.00	-19.98
7320.00	Peak	34.09	17.44	51.53	74.00	-22.47
7320.00	Average	24.41	17.44	41.85	54.00	-12.15

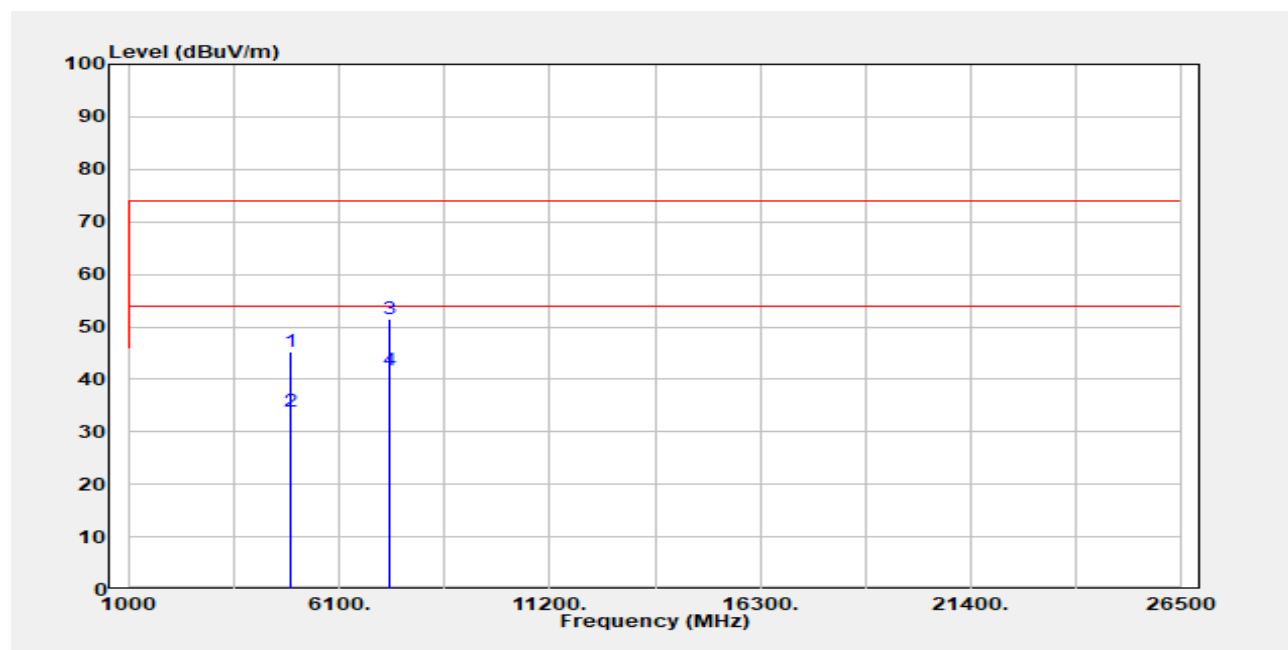
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Report Number :TERF2508002544E2
Operation Mode :BLE 500k
Test Frequency :2440 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-08-11
Temp./Humi. :20.8°C/59%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4880.00	Peak	35.69	9.54	45.23	74.00	-28.77
4880.00	Average	24.41	9.54	33.95	54.00	-20.05
7320.00	Peak	34.16	17.44	51.60	74.00	-22.40
7320.00	Average	24.19	17.44	41.63	54.00	-12.37

~ End of Report ~

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