

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Bluetooth Low Energy Module
Applicant: Raytac Corp.
8F, No.788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei
City, 235, Taiwan
Manufacturer: Raytac Corp.
8F, No.788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei
City, 235, Taiwan
Brand Name: Raytac
Model No./ISED HVIN: AN54LQ
**Family Model No.
/ Family ISED HVIN:** AN54LQ-P, AN54LQ-U
Model Difference: Dimensions, Antenna type
ISED PMN: AN54LQ, AN54LQ-P, AN54LQ-U
Report Number: TERF2502000650E2
FCC ID SH6AN54LQ
IC: 8017A-AN54LQ
Date of EUT Received: February 5, 2025
Date of Test: February 13, 2025~July 1, 2025
Issue Date: July 18, 2025

Approved By**Vito Pei****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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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2502000650E2	00	Original	Jul. 15, 2025	Candice Li	
TERF2502000650E2	01	Modify Section 1.4; P.58, P.94 indicates the main test antenna model.	Jul. 18, 2025	Candice Li	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant. Test results in this report are applicable to the sample EUT(s) received. For details on model differences, please refer to Section 1.2.
In view of the above differences, Radiated Spurious Emission measurements are added. The rest of the internal board structure and circuitry remain the same.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Bluetooth Low Energy Module
Brand Name:	Raytac
Model No./ISED HVIN:	AN54LQ
Family Model No. / Family ISED HVIN:	AN54LQ-P, AN54LQ-U
Model Difference:	Dimensions, Antenna type
Hardware Version:	1
Firmware Version:	1
EUT Series No.:	U9
Power Supply:	3.3 Vdc
Test Software (Name/Version)	PuTTY Release 0.79

1.2 Model Difference

Diversity Description	Original Model	Family Model	Family Model
	AN54LQ	AN54LQ-P	AN54LQ-U
Dimensions	13.7*9.5*1.8mm	13.7*9.5*1.8mm	14*9.5*1.85mm
Antenna type	Monopole (On board antenna)	PIFA (On board antenna)	Dipole (External antenna)

1.3 RF Specification

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 8.02 dBm BLE 2M: 8.03 dBm

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1.4 Antenna Designation

On board antenna

Antenna Type	Supplier	Antenna Part No. (Model)	Freq. (MHz)	Peak Antenna Gain (dBi)
Monopole	Raytac	AN54LQ	2400~2500	1.42
PIFA	Raytac	AN54LQ-P	2400~2500	0.06

External antenna

Antenna Type	Supplier	Antenna Part No. (Model)	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	Aristotle	RFA-02-5-F17H170100B	2400~2500	5
Dipole	YAGEO	ANTX100P111B24003	2400~2500	3.3
Dipole	YAGEO	ANTX100P011B24003	2400~2500	2.2
Dipole	YAGEO	ANTX100ETHAB24553	2400~2500	2.22

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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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 3 Aug. 2023

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

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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	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	
		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.

Temperature:	22.6	°C	Relative Humidity:	60	%
Test site	Conducted C		Test Start:	06/20/2025	
Test Engineer:	Joey You		Test Done:	06/20/2025	

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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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2.4 Measurement Results Explanation Example

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

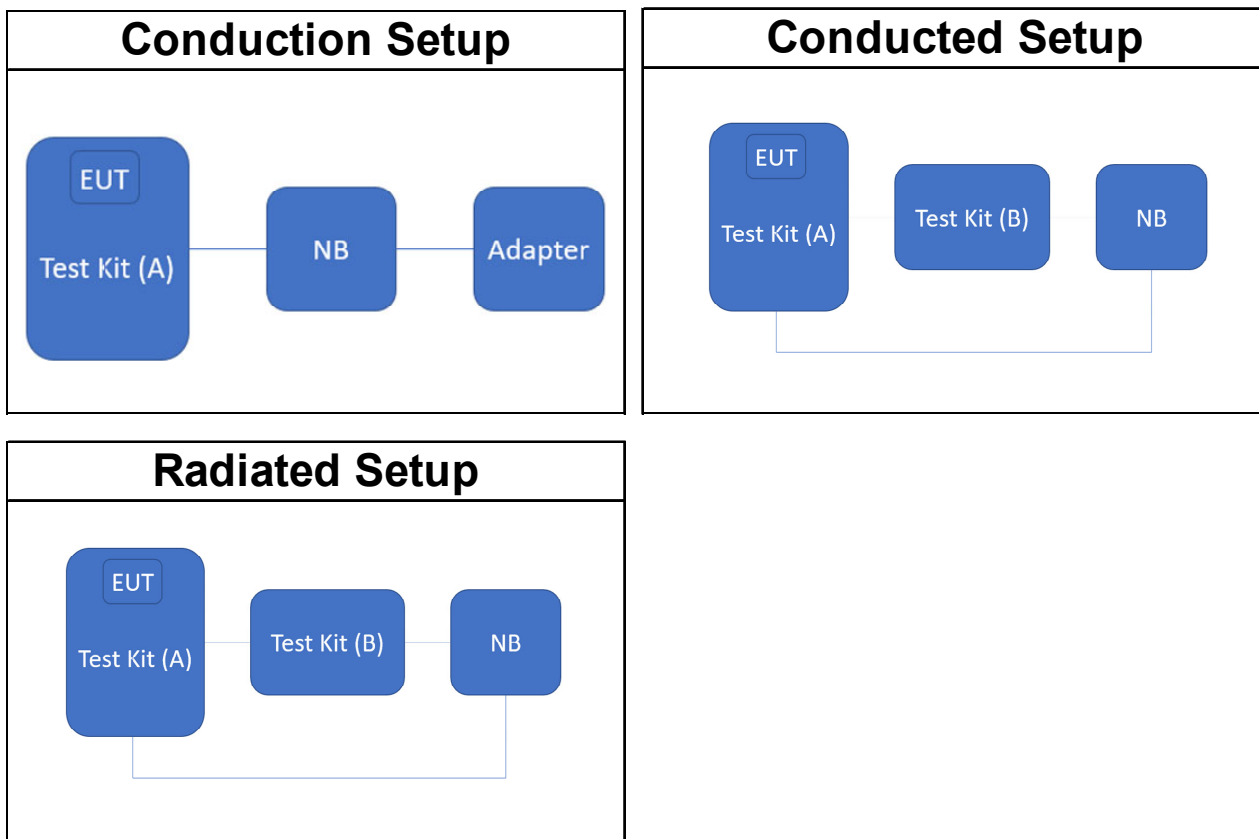
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
NB Adapter	Lenovo	ADLX65YLC3A	8SSA10M13945L1CZ 88N0F8W	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A
Test Kit (A)	RAYTAC	AN54LQ-DB(P/U)&AN54LQ-DB(U)	N/A	N/A	N/A
USB Cable	I Max	USB-C1200	N/A	N/A	N/A
Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit (A)	RAYTAC	AN54LQ-DB(P/U)&AN54LQ-DB(U)	N/A	N/A	N/A
Test Kit (B)	SILICON LABS	CP2102	N/A	N/A	N/A
USB Cable	MI	SJX10ZM	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A
Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T470	P0001293	N/A	N/A
Test Kit (A)	RAYTAC	AN54LQ-DB(P/U)&AN54LQ-DB(U)	N/A	N/A	N/A
Test Kit (B)	SILICON LABS	CP2102	N/A	N/A	N/A
USB Cable	DIKE	SH-USB 3M	N/A	N/A	N/A
USB Cable	I Max	USB-C1200	N/A	N/A	N/A

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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	Compliant
§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) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Band Edge and Spurious Emission	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203	N/A	Antenna Requirement	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.

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE_1M	0 to 39	20	GFSK	2

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE_1M	0 to 39	0,20,39	GFSK	1
Bluetooth LE_2M	0 to 39	0,20,39	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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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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	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
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/03/2025	06/02/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.3 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2025	03/01/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/06/2024	11/05/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM- 6000+EMC105-SM-SM-12000+15	W13.01+150813+231 0002+15	11/14/2024	11/13/2025
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026
Highpass Filter	R&S	F13 HPF 3GHz	RF167	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWI-56-0019	RF163	11/14/2024	11/13/2025
Notch Filter	Micro-Tronics	BRM50701-02	RF208	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC330	980091	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
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 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

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

Frequency range MHz	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

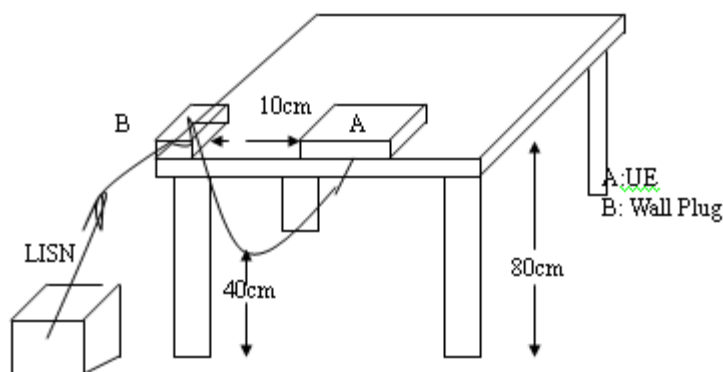
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure:

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

7.5 Measurement Result:

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Note1: Refer to next page for measurement data and plots.

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

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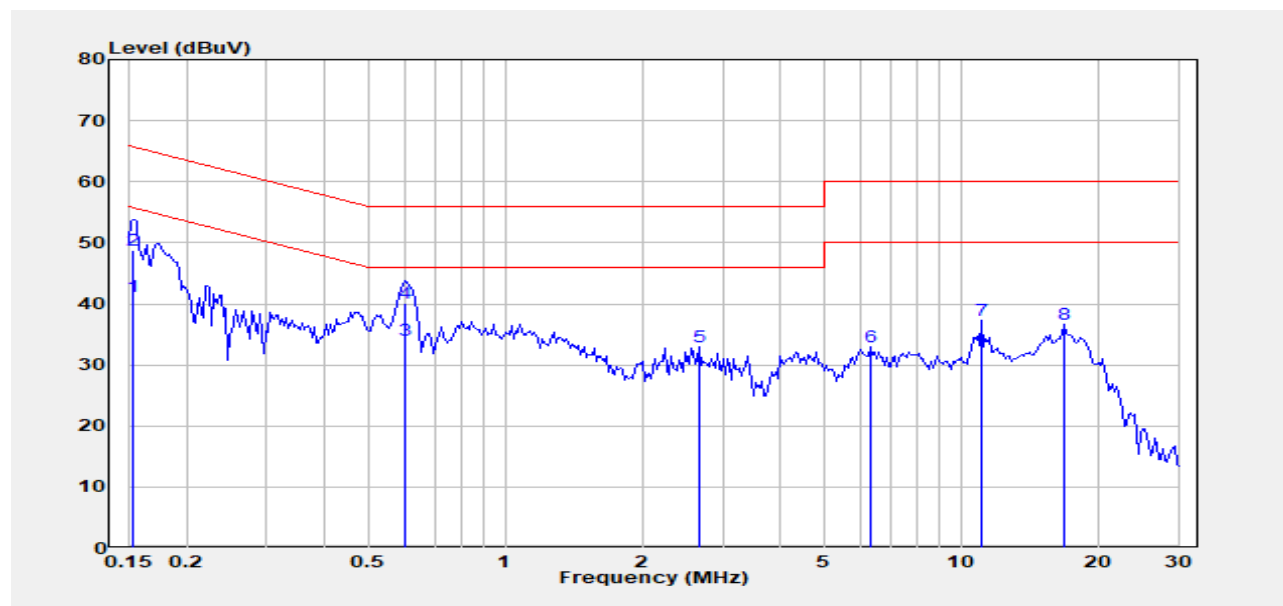
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AC POWER LINE CONDUCTED EMISSION TEST DATA

AN54LQ

Report Number	:TERF2502000650E2	Test Site	:Conduction C
Test Mode	:BLE	Test Date	:2025-07-01
Power	:120V60Hz	Temp./Humi.	:27.5/56
Probe	:L1	Engineer	:Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	30.50	10.69	41.19	55.82	-14.63
0.153	QP	38.10	10.69	48.79	65.82	-17.03
0.601	Average	23.40	10.65	34.05	46.00	-11.95
0.601	QP	29.40	10.65	40.05	56.00	-15.95
2.678	Peak	22.17	10.83	33.01	56.00	-22.99
6.319	Peak	22.04	10.97	33.01	60.00	-26.99
11.080	Peak	26.38	11.00	37.37	60.00	-22.63
16.928	Peak	25.45	11.11	36.56	60.00	-23.44

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Report Number :TERF2502000650E2

Test Site :Conduction C

Test Mode :BLE

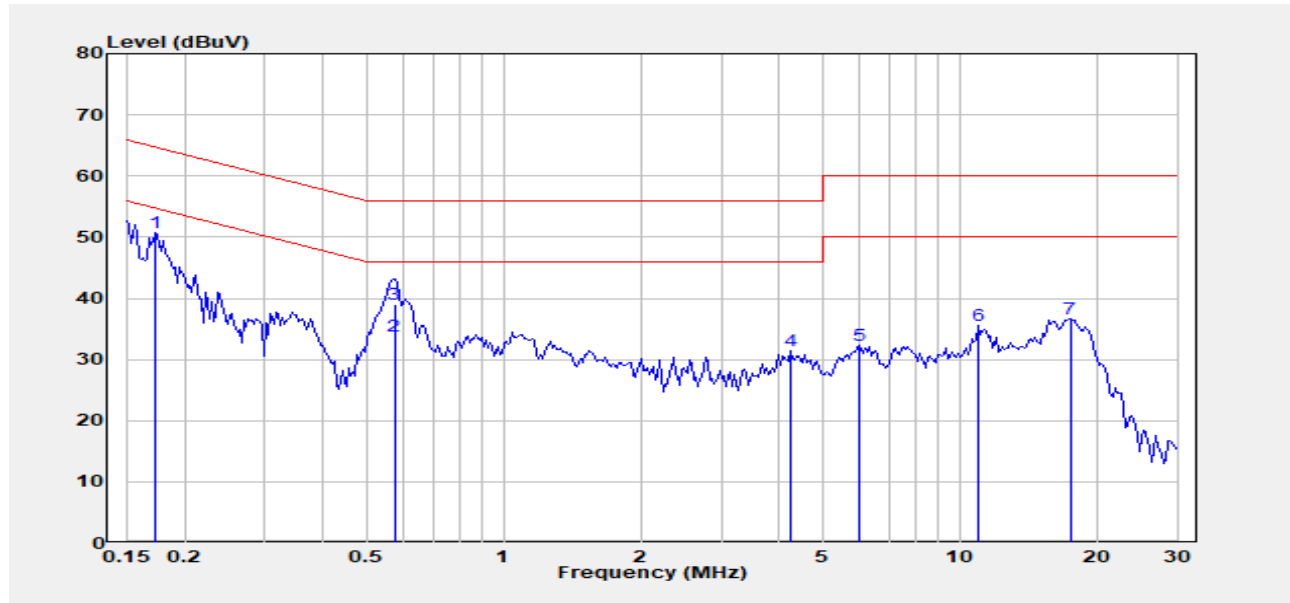
Test Date :2025-07-01

Power :120V60Hz

Temp./Humi. :27.5/56

Probe :N

Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.172	Peak	40.08	10.67	50.75	64.86	-14.10
0.576	Average	23.10	10.63	33.73	46.00	-12.27
0.576	QP	28.50	10.63	39.13	56.00	-16.87
4.269	Peak	20.49	10.93	31.42	56.00	-24.58
6.056	Peak	21.39	10.98	32.37	60.00	-27.63
10.963	Peak	24.42	11.04	35.46	60.00	-24.54
17.475	Peak	25.44	11.20	36.63	60.00	-23.37

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AN54LQ-P

Report Number :TERF2502000650E2

Test Site :Conduction C

Test Mode :BLE

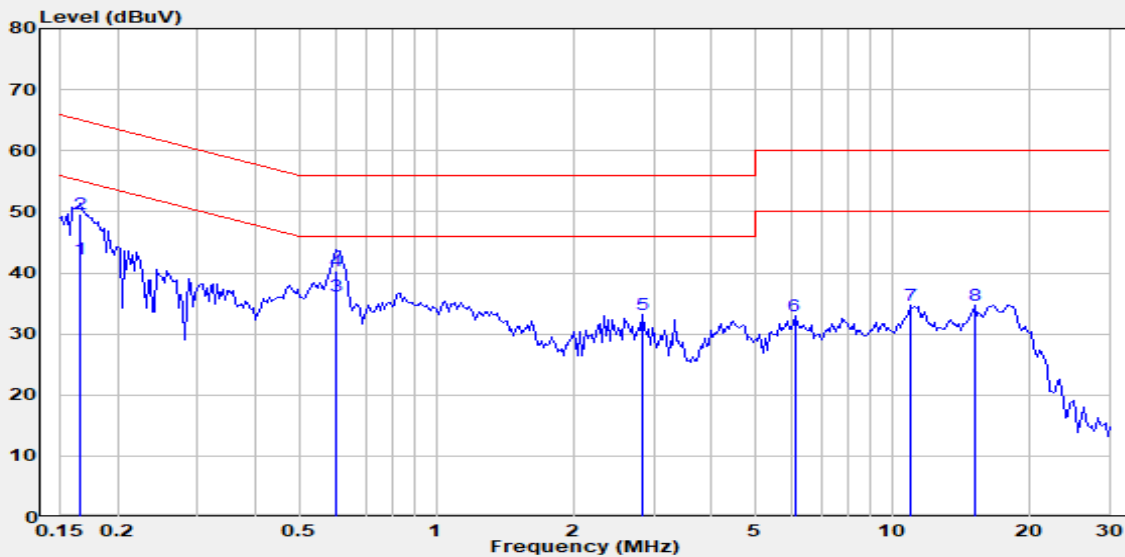
Test Date :2025-07-01

Power :120V60Hz

Temp./Humi. :27.5/56

Probe :L1

Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.165	Average	31.50	10.69	42.19	55.21	-13.02
0.165	QP	39.00	10.69	49.69	65.21	-15.52
0.601	Average	25.60	10.65	36.25	46.00	-9.75
0.601	QP	29.70	10.65	40.35	56.00	-15.65
2.824	Peak	22.27	10.84	33.11	56.00	-22.89
6.121	Peak	22.05	10.97	33.02	60.00	-26.98
10.963	Peak	23.76	10.99	34.75	60.00	-25.25
15.226	Peak	23.63	11.08	34.71	60.00	-25.29

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Report Number :TERF2502000650E2

Test Site :Conduction C

Test Mode :BLE

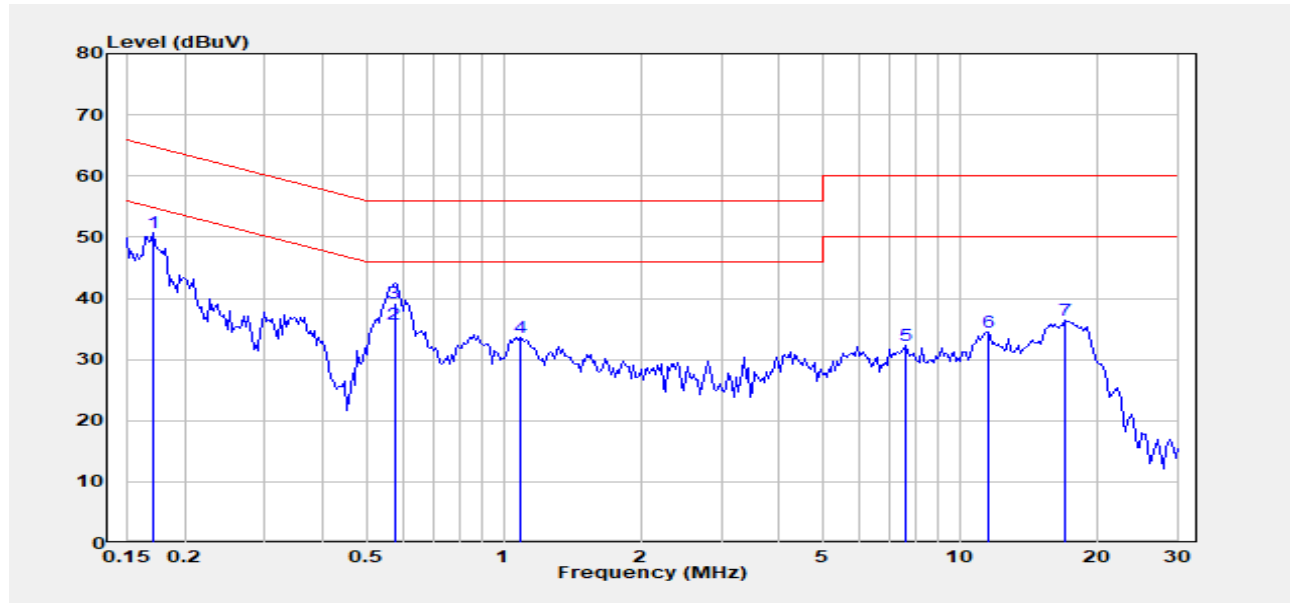
Test Date :2025-07-01

Power :120V60Hz

Temp./Humi. :27.5/56

Probe :N

Engineer :Alex Li



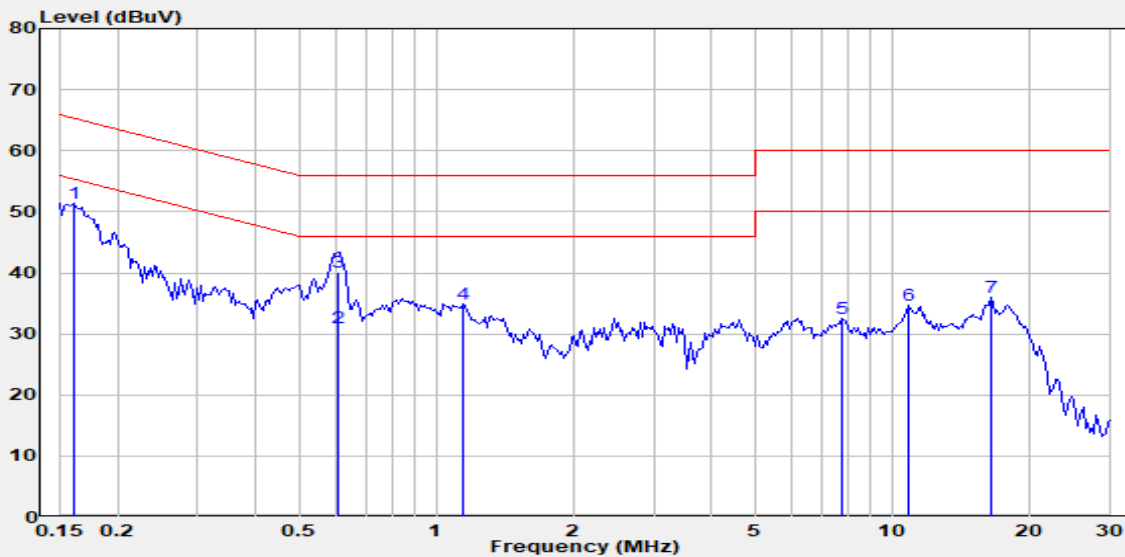
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.170	Peak	39.98	10.67	50.65	64.94	-14.29
0.576	Average	25.10	10.63	35.73	46.00	-10.27
0.576	QP	28.60	10.63	39.23	56.00	-16.77
1.088	Peak	23.01	10.70	33.71	56.00	-22.29
7.646	Peak	21.21	11.00	32.20	60.00	-27.80
11.559	Peak	23.41	11.06	34.47	60.00	-25.53
17.109	Peak	25.26	11.19	36.45	60.00	-23.55

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AN54LQ-U

Report Number :TERF2502000650E2 Test Site :Conduction C
Test Mode :BLE Test Date :2025-07-01
Power :120V60Hz Temp./Humi. :27.5/56
Probe :L1 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.160	Peak	40.63	10.69	51.32	65.47	-14.15
0.608	Average	20.40	10.65	31.05	46.00	-14.95
0.608	QP	29.40	10.65	40.05	56.00	-15.95
1.147	Peak	24.22	10.72	34.94	56.00	-21.06
7.810	Peak	21.65	10.97	32.62	60.00	-27.38
10.847	Peak	23.65	10.99	34.64	60.00	-25.36
16.573	Peak	24.79	11.10	35.89	60.00	-24.11

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Report Number :TERF2502000650E2

Test Site :Conduction C

Test Mode :BLE

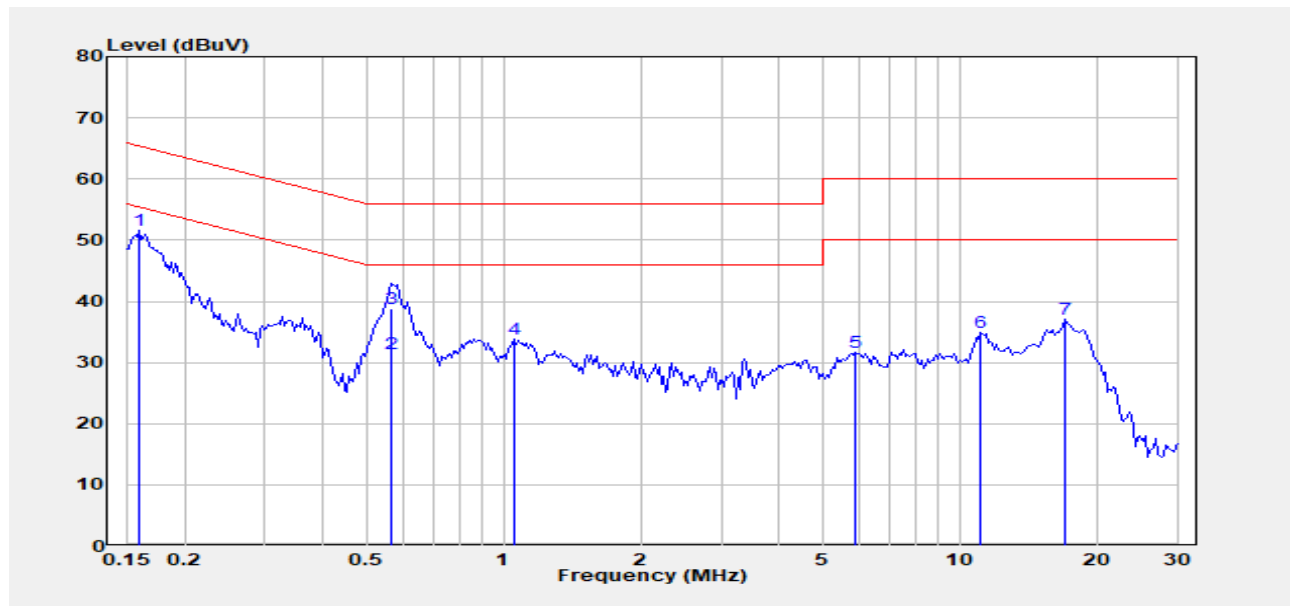
Test Date :2025-07-01

Power :120V60Hz

Temp./Humi. :27.5/56

Probe :N

Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.158	Peak	40.86	10.67	51.53	65.56	-14.03
0.570	Average	20.80	10.63	31.43	46.00	-14.57
0.570	QP	28.10	10.63	38.73	56.00	-17.27
1.054	Peak	23.14	10.70	33.83	56.00	-22.17
5.929	Peak	20.60	10.98	31.59	60.00	-28.41
11.080	Peak	23.92	11.04	34.97	60.00	-25.03
17.109	Peak	25.84	11.19	37.03	60.00	-22.97

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 Duty Cycle

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

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

8.1.2 FCC

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

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

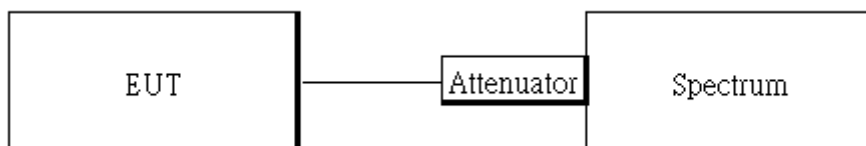
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.1.3 ISED

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 (ISED only).

8.2 Test Setup

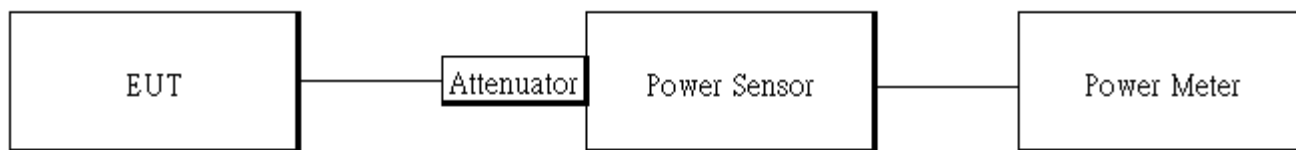
8.2.1 Duty Cycle



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8.2.2 Output Power



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:

Mode	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	0.00	0.01
BLE 2M	100.00	0.00	0.00	0.01

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8.5 Output Power:

8.5.1 Peak & Avg

BLE 1M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	8	7.96	30
20	2442	8	8.02	30
39	2480	8	8.00	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	8	7.88	30
20	2442	8	7.94	30
39	2480	8	7.92	30

***Note:**

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

BLE 2M mode:

CH	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	8	7.97	30
20	2442	8	8.03	30
39	2480	8	8.01	30
CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	8	7.89	30
20	2442	8	7.95	30
39	2480	8	7.93	30

***Note:**

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

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8.5.2 EIRP

EIRP BLE 1M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	8	7.88	5.00	12.88	4W= 36 dBm
20	2442	8	7.94	5.00	12.94	4W= 36 dBm
39	2480	8	7.92	5.00	12.92	4W= 36 dBm

* **Note:** EIRP = Average Power + Gain

EIRP BLE 2M mode

CH	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit
0	2402	8	7.89	5.00	12.89	4W= 36 dBm
20	2442	8	7.95	5.00	12.95	4W= 36 dBm
39	2480	8	7.93	5.00	12.93	4W= 36 dBm

* **Note:** EIRP = Average Power + Gain

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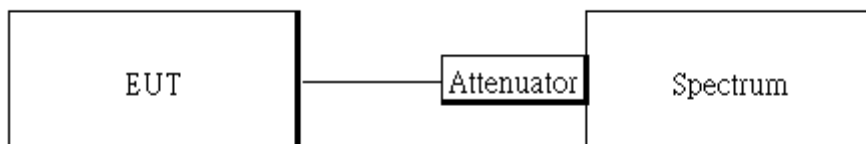
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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

9.3.1 6dB BW measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
RBW= 1 % to 5% of 99%,
VBW \geq 3 X RBW,
Span= large enough to capture all products of the modulation process
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99%.
4. Repeat above procedures until all test default channel is completed.

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9.4 Measurement Result:

9.4.1 6dB BW measurements

BLE 1M mode

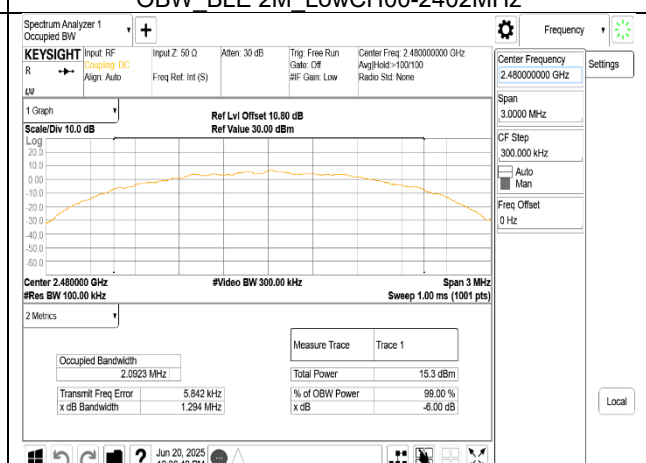
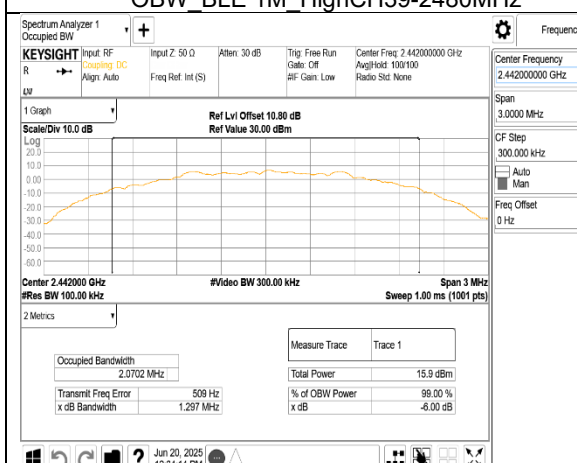
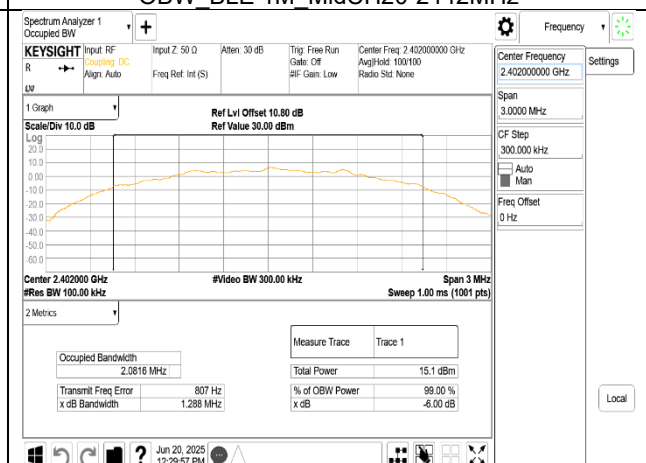
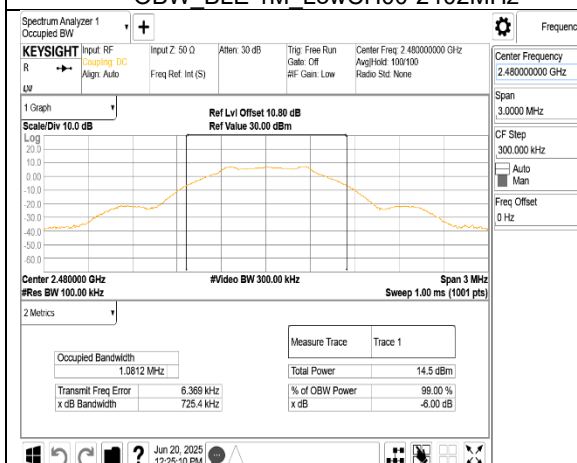
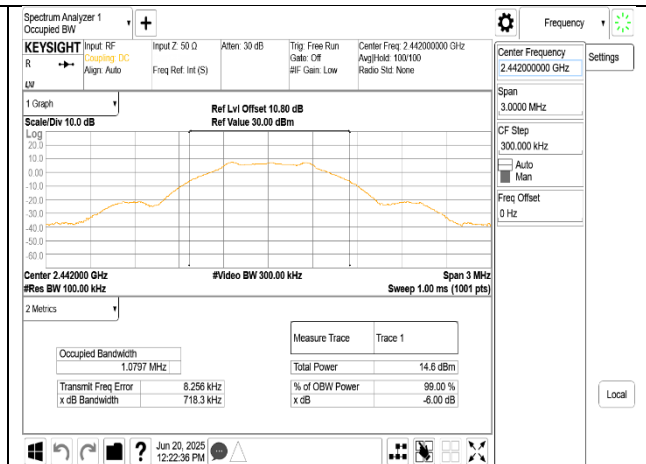
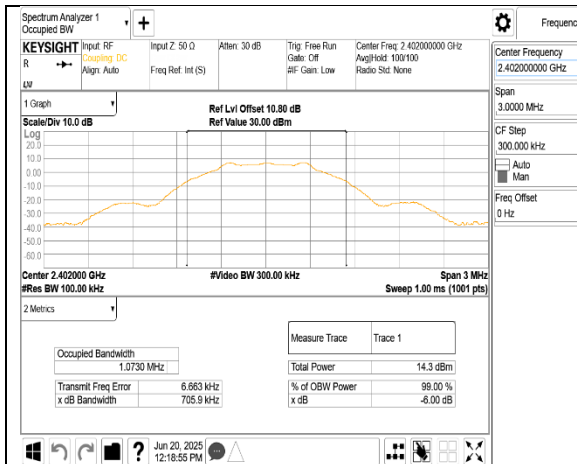
Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7059	≥ 0.5	PASS
2442	0.7183	≥ 0.5	PASS
2480	0.7254	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.288	≥ 0.5	PASS
2442	1.297	≥ 0.5	PASS
2480	1.294	≥ 0.5	PASS

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9.4.2 99% Bandwidth

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0554
2442	1.0689
2480	1.0676

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0982
2442	2.081
2480	2.1055

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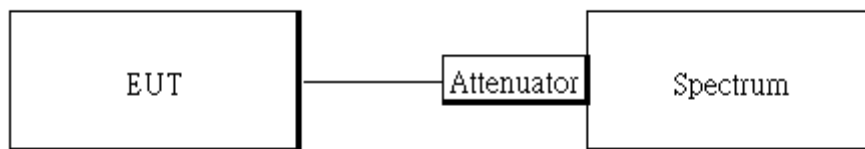
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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

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10.3.2 Conducted Band Edge:

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

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10.4 Measurement Result

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	7.12	-12.88
2442	7.40	-12.60
2480	7.22	-12.78

***Note:**

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

BLE 2M_Reference Level of Limit

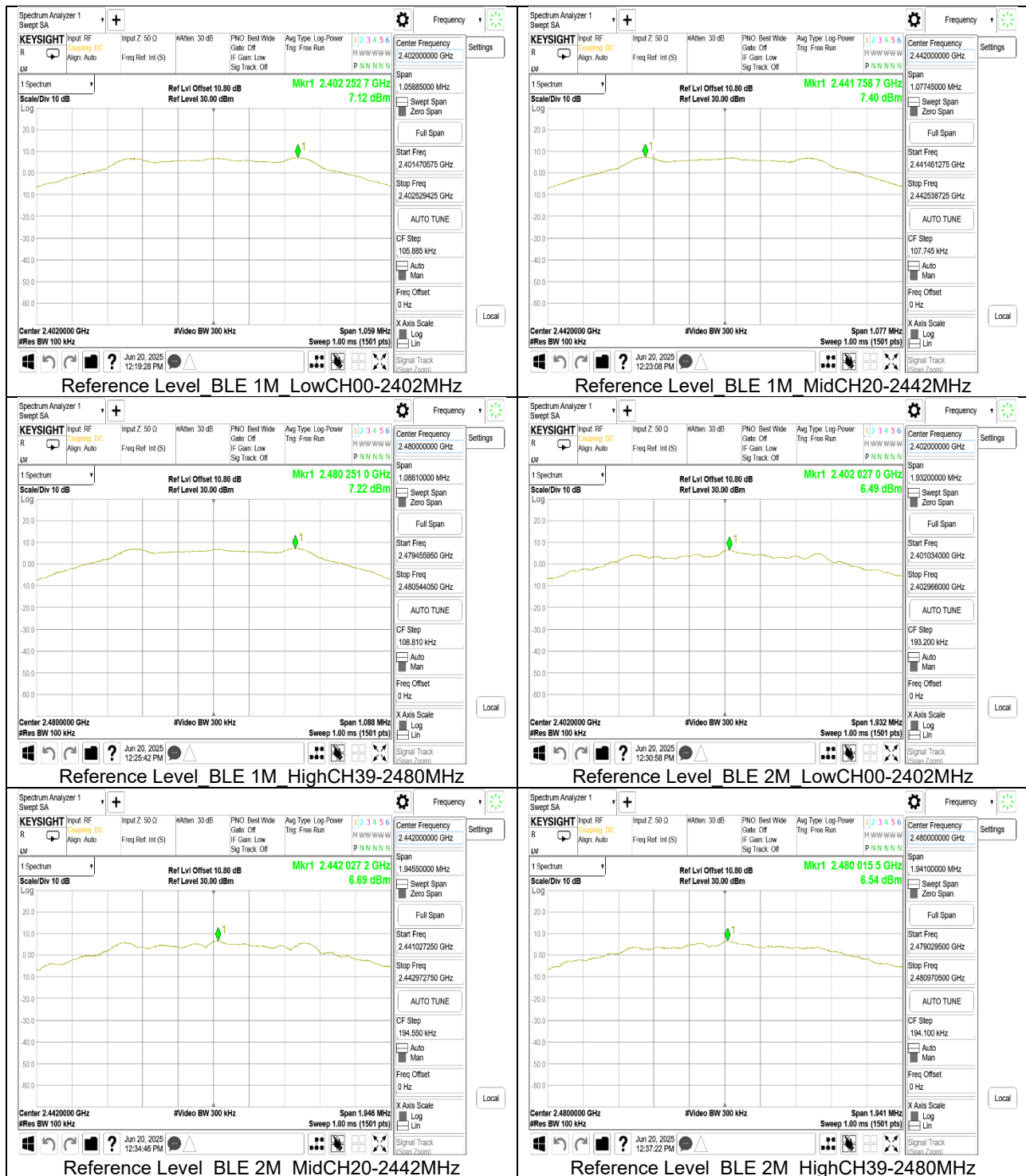
Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	6.49	-13.51
2442	6.69	-13.31
2480	6.54	-13.46

***Note:**

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

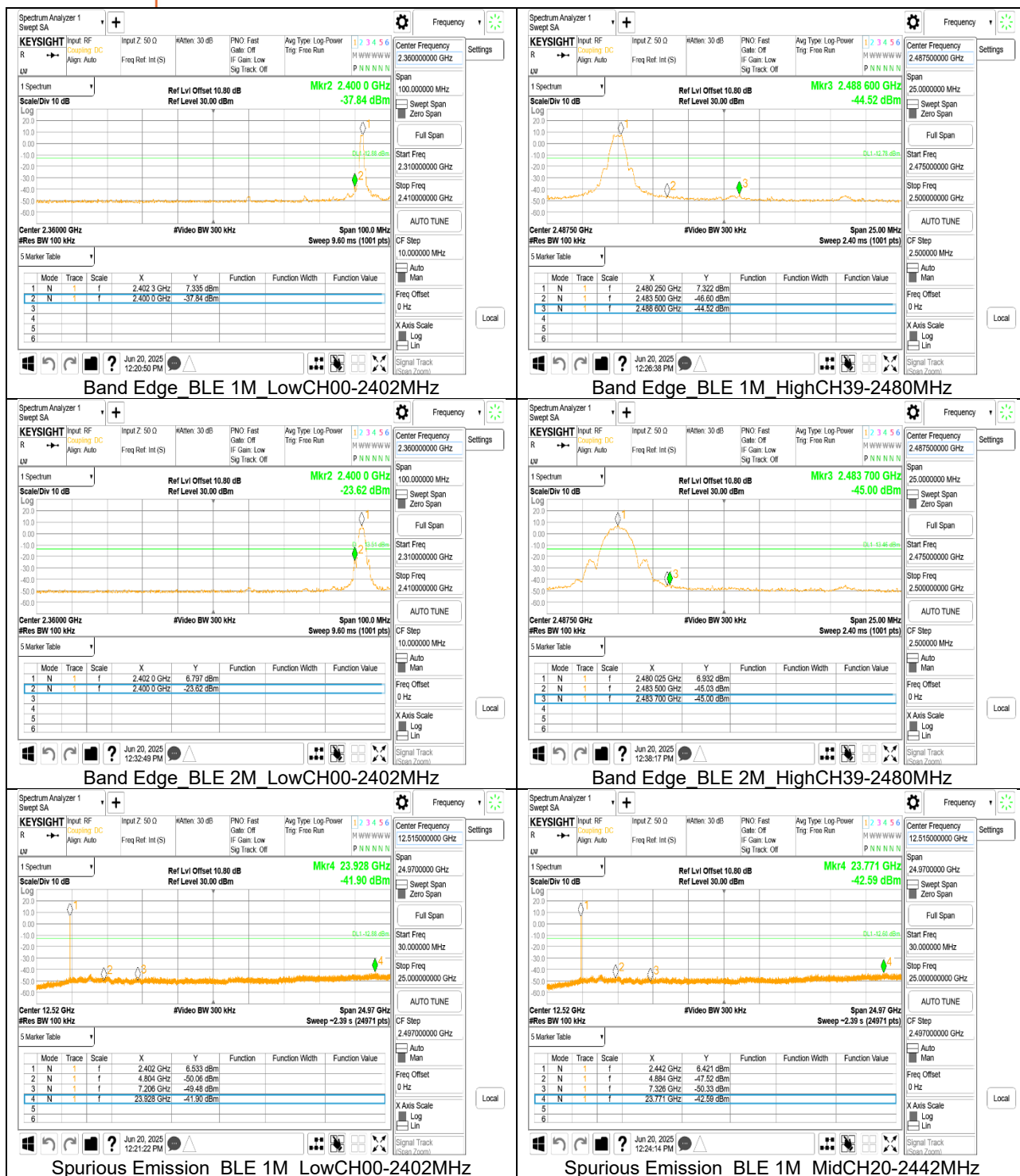
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SGS Taiwan Ltd.

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

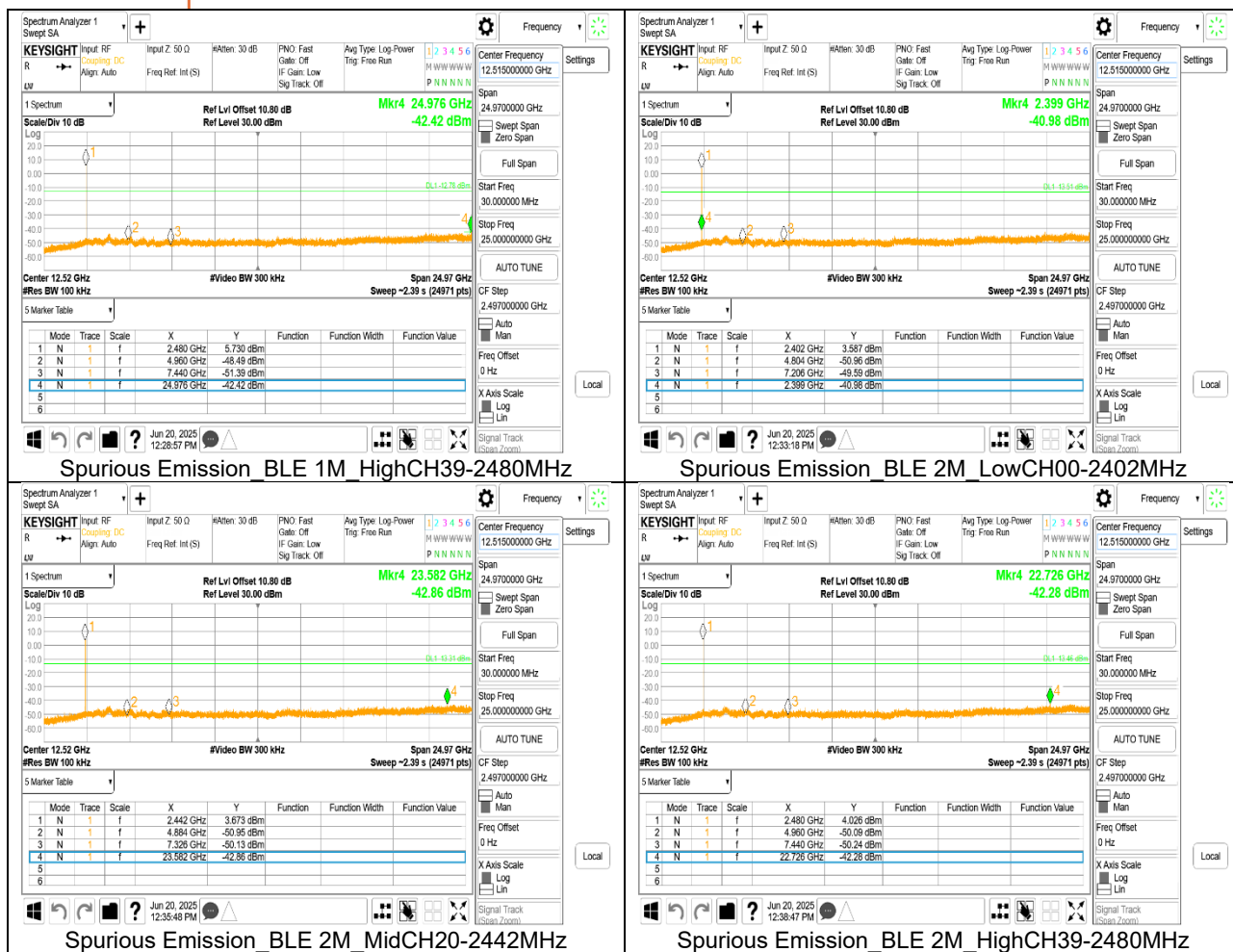
台灣檢驗科技股份有限公司

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11 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.

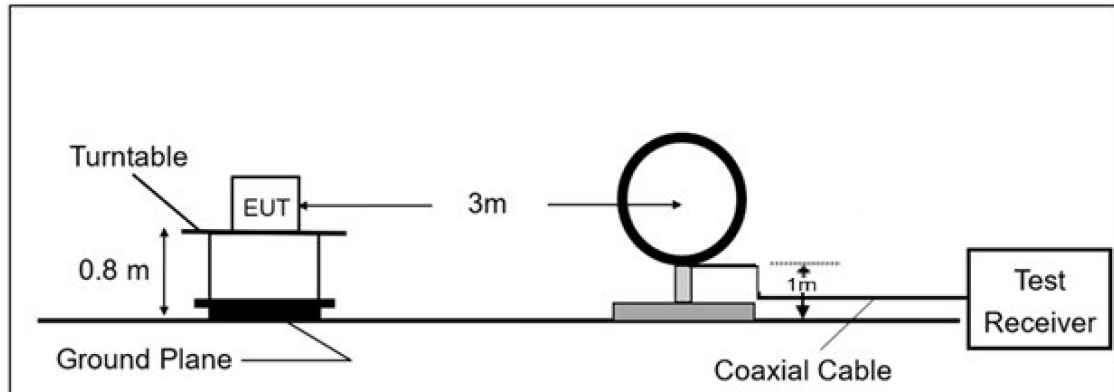
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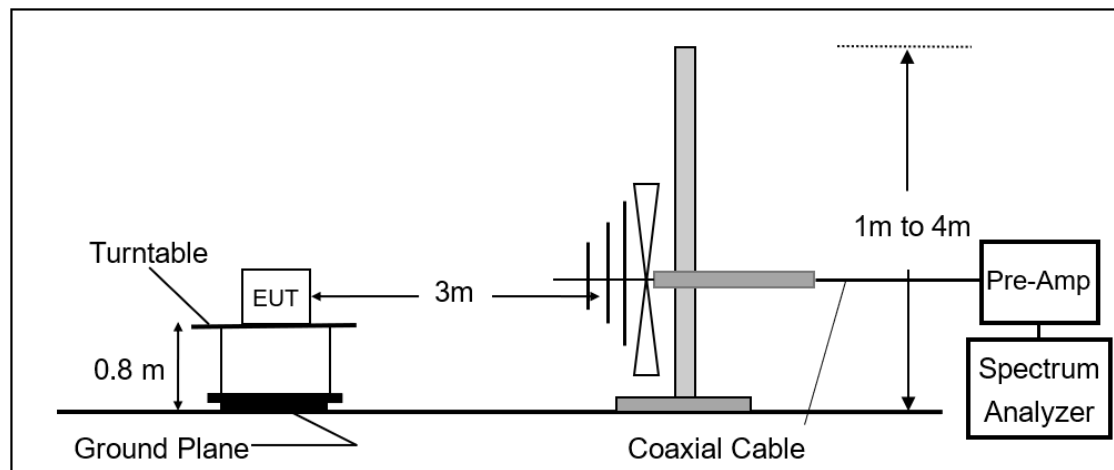
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11.1 Test Setup

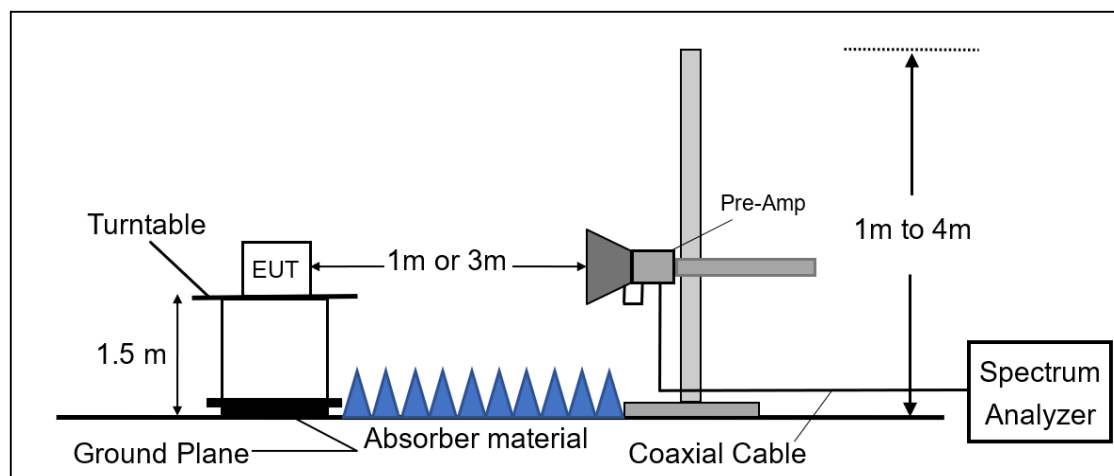
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.2 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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11.3 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 $20 \cdot \log(uV/m)$

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

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

11.4 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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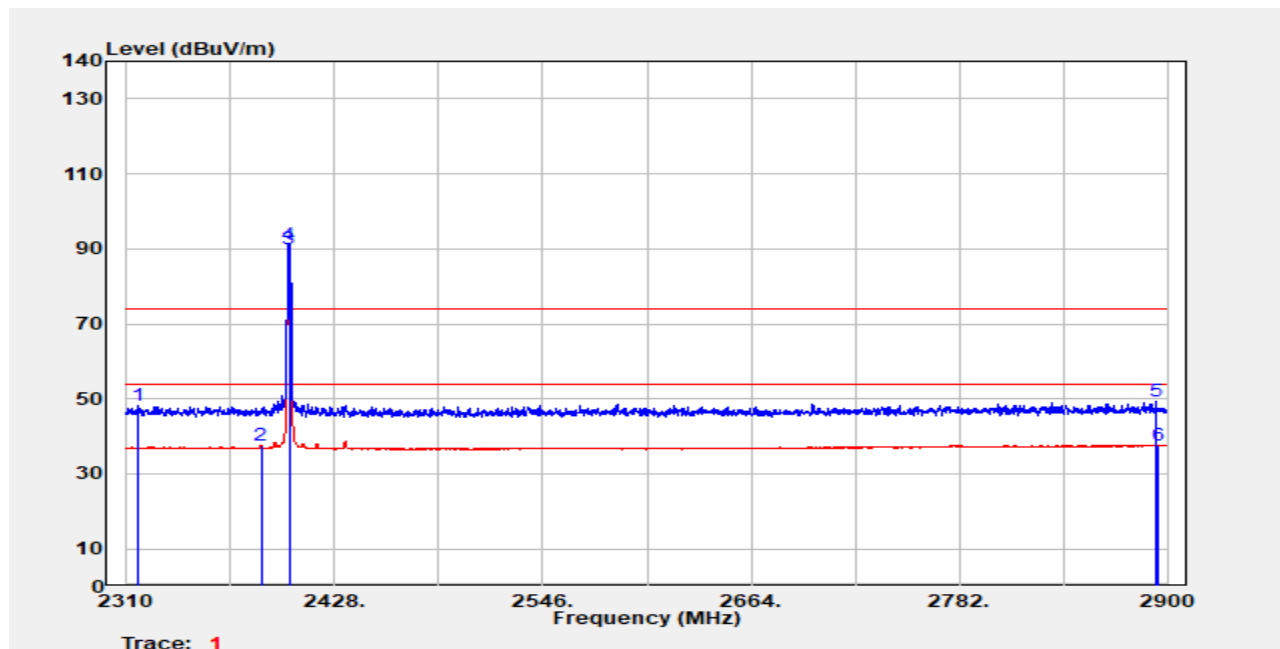
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11.4.1 Radiated Band Edge Measurement Result

AN54LQ

Report Number :TERF2502000650E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-26
 Temp./Humi. :24.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Alex Li



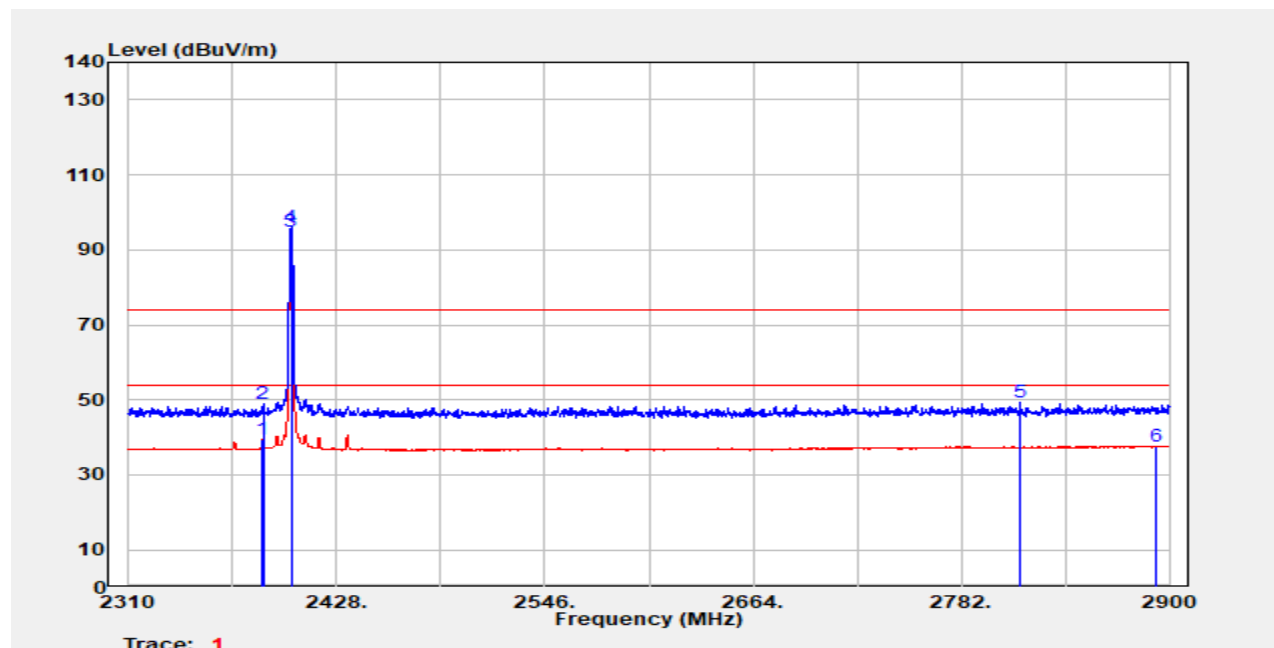
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2316.49	Peak	51.77	-3.70	48.07	74.00	-25.93
2386.14	Average	41.52	-3.92	37.60	54.00	-16.40
2402.00	Average	93.99	-4.01	89.98	-	-
2402.00	Peak	95.08	-4.01	91.07	-	-
2893.51	Peak	52.02	-2.81	49.21	74.00	-24.79
2894.49	Average	40.48	-2.80	37.68	54.00	-16.32

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Report Number :TERF2502000650E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-26
 Temp./Humi. :24.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



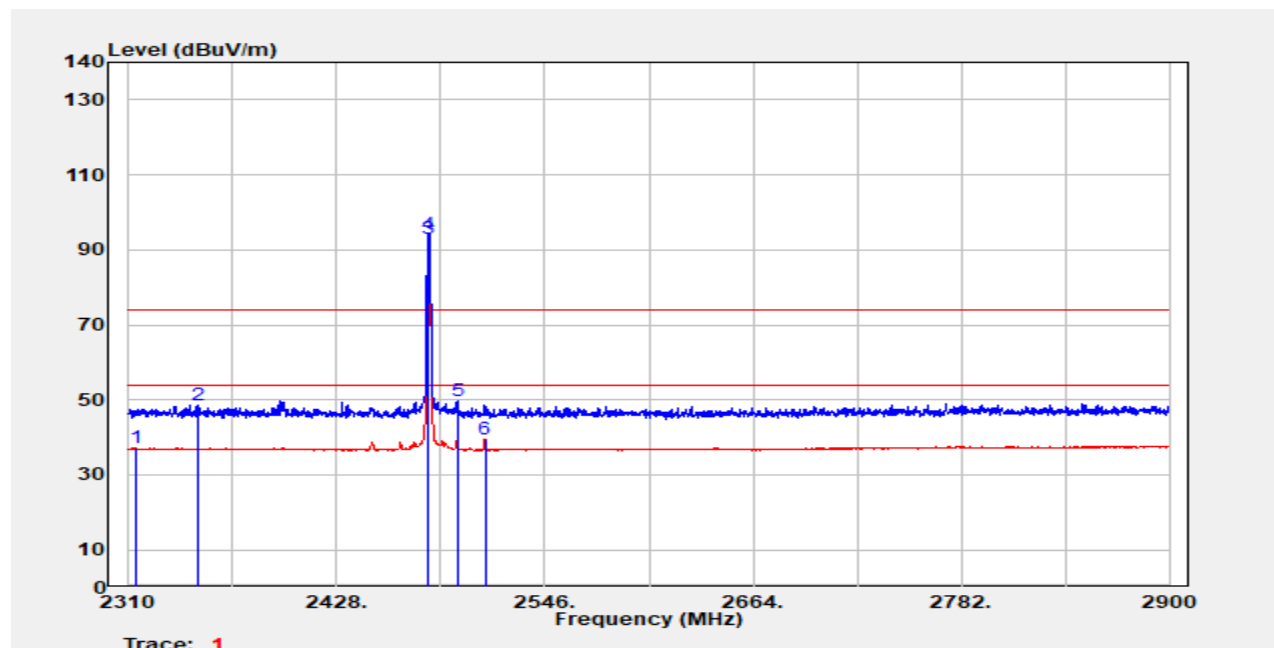
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.94	Average	43.19	-3.92	39.27	54.00	-14.73
2386.14	Peak	52.87	-3.92	48.95	74.00	-25.05
2402.00	Average	98.81	-4.01	94.80	-	-
2402.00	Peak	99.91	-4.01	95.90	-	-
2815.21	Peak	52.39	-3.19	49.20	74.00	-24.80
2892.52	Average	40.47	-2.81	37.66	54.00	-16.34

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-26
Temp./Humi. :24.1°C/61%
Antenna Pol. :Vertical
Engineer :Alex Li



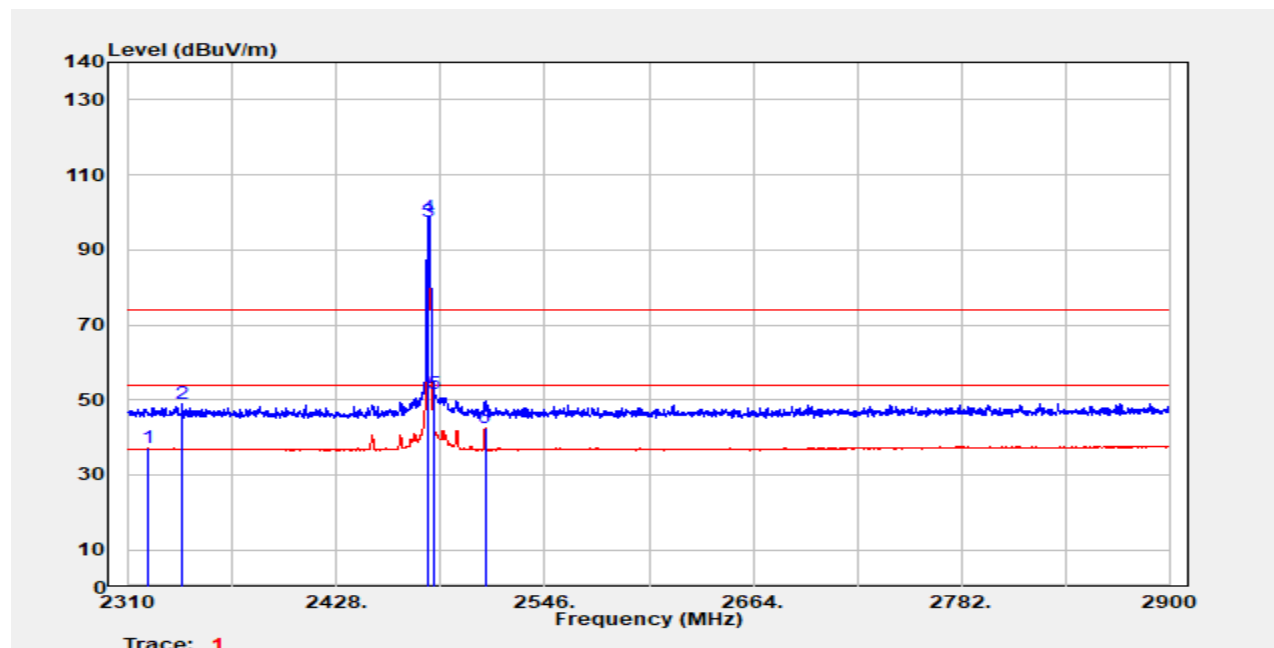
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2313.94	Average	40.79	-3.70	37.09	54.00	-16.91
2348.76	Peak	52.43	-3.85	48.58	74.00	-25.42
2480.00	Average	97.23	-4.15	93.08	-	-
2480.00	Peak	98.33	-4.15	94.18	-	-
2496.31	Peak	53.75	-4.12	49.63	74.00	-24.37
2512.04	Average	43.72	-4.15	39.57	54.00	-14.43

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Report Number :TERF2502000650E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-26
 Temp./Humi. :24.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



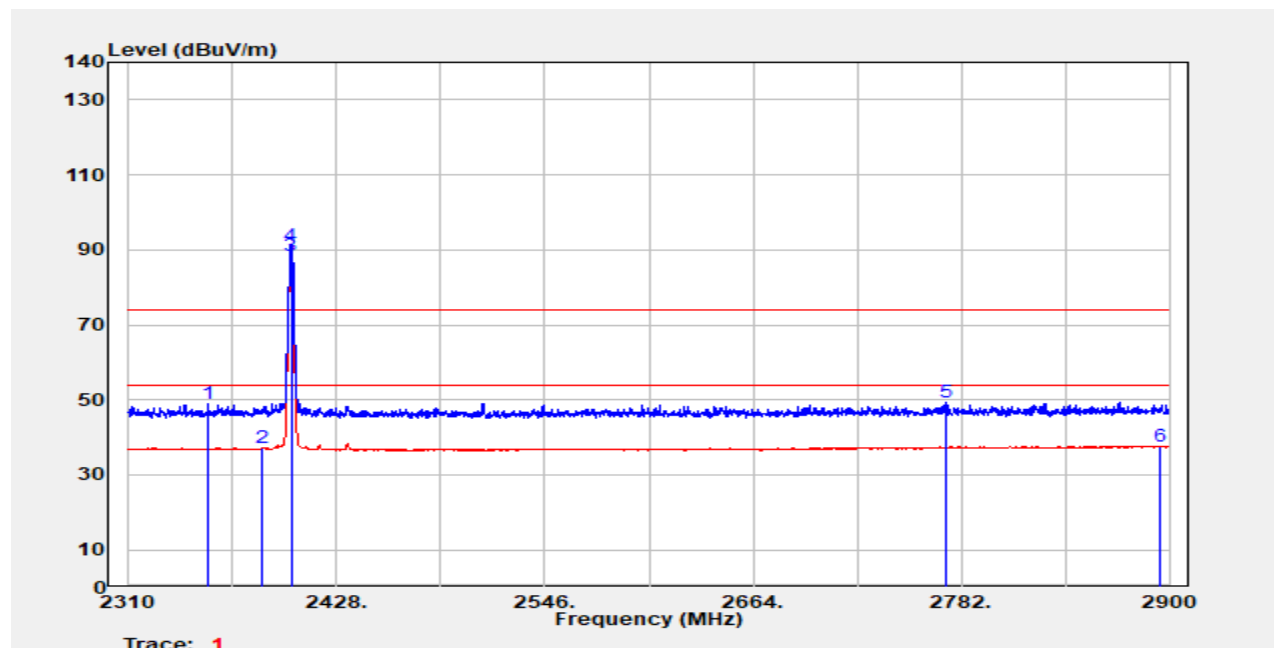
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2321.21	Average	40.72	-3.70	37.02	54.00	-16.98
2340.49	Peak	52.67	-3.77	48.90	74.00	-25.10
2480.00	Average	101.60	-4.15	97.45	-	-
2480.00	Peak	102.73	-4.15	98.58	-	-
2483.50	Peak	55.68	-4.12	51.56	74.00	-22.44
2512.04	Average	46.53	-4.15	42.38	54.00	-11.62

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-26
 Temp./Humi. :24.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Alex Li



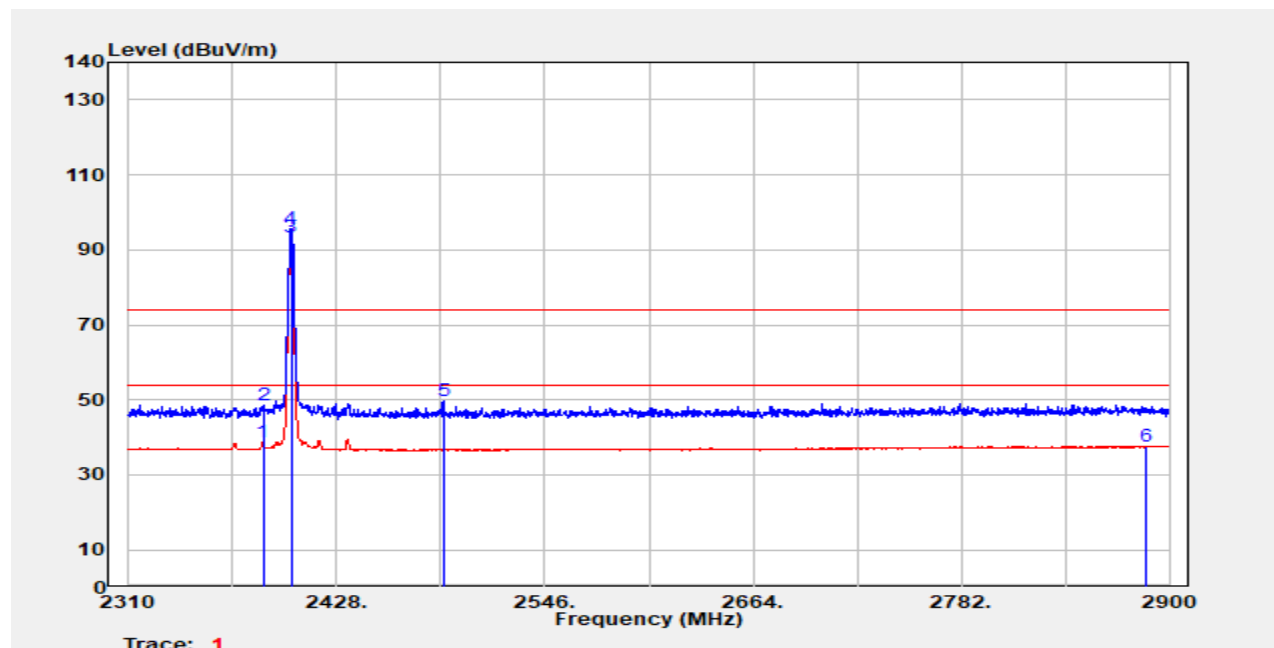
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2355.05	Peak	52.62	-3.85	48.77	74.00	-25.23
2385.74	Average	41.27	-3.92	37.35	54.00	-16.65
2402.00	Average	92.44	-4.01	88.43	-	-
2402.00	Peak	94.93	-4.01	90.92	-	-
2773.90	Peak	52.46	-3.29	49.17	74.00	-24.83
2895.08	Average	40.50	-2.80	37.70	54.00	-16.30

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-26
 Temp./Humi. :24.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



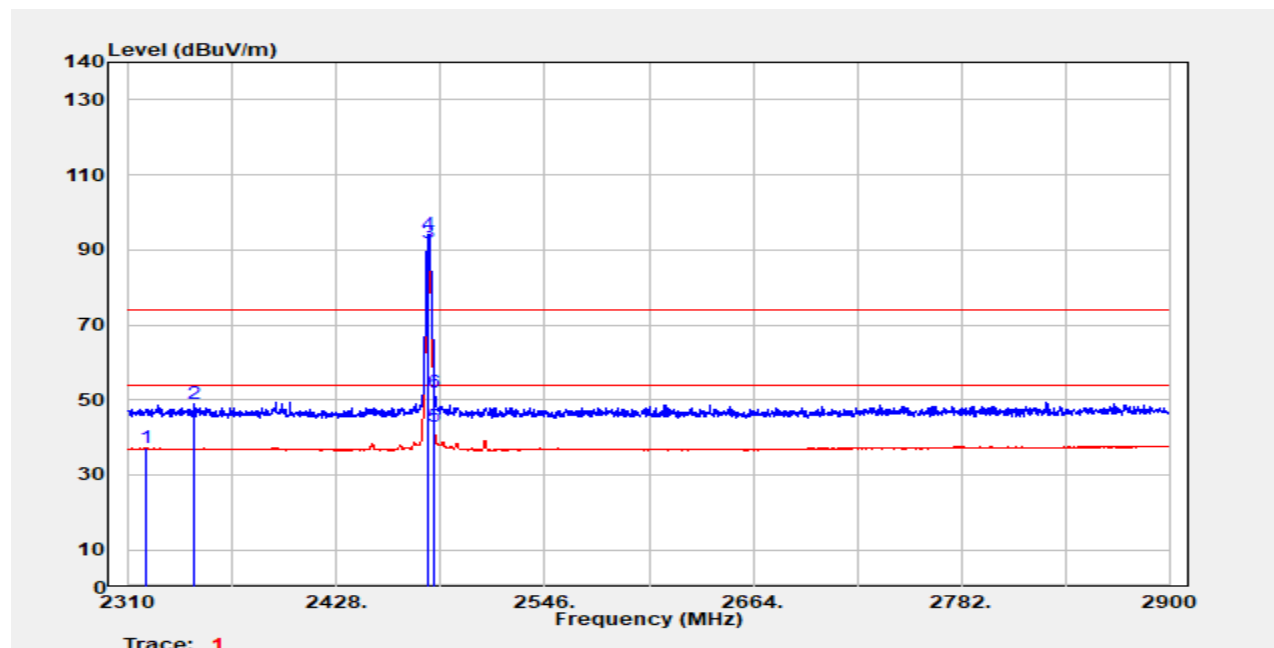
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBUV/m	Margin dB
2386.14	Average	42.78	-3.92	38.86	54.00	-15.14
2386.33	Peak	52.61	-3.92	48.69	74.00	-25.31
2402.00	Average	97.22	-4.01	93.21	-	-
2402.00	Peak	99.69	-4.01	95.68	-	-
2488.24	Peak	53.79	-4.07	49.72	74.00	-24.28
2887.41	Average	40.54	-2.84	37.70	54.00	-16.30

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-26
Temp./Humi. :24.1°C/61%
Antenna Pol. :Vertical
Engineer :Alex Li



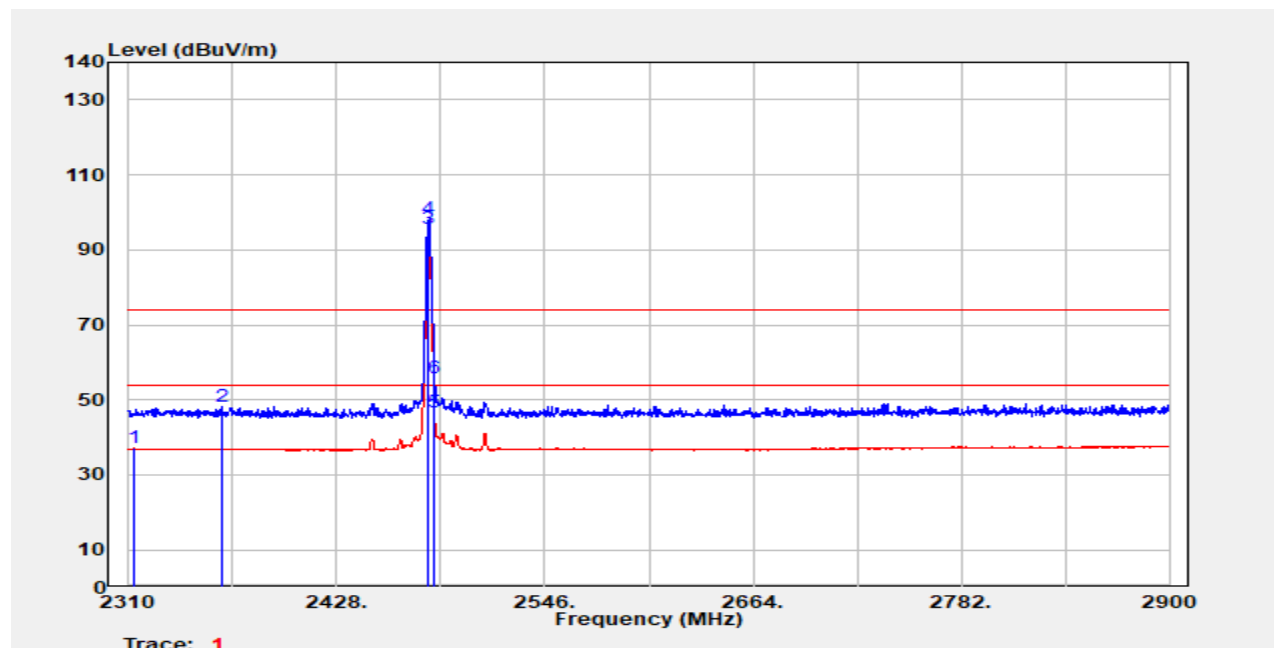
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2319.64	Average	40.87	-3.69	37.18	54.00	-16.82
2346.99	Peak	52.68	-3.83	48.85	74.00	-25.15
2480.00	Average	95.80	-4.15	91.65	-	-
2480.00	Peak	98.36	-4.15	94.21	-	-
2483.50	Average	47.18	-4.12	43.06	54.00	-10.94
2483.50	Peak	56.22	-4.12	52.10	74.00	-21.90

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-26
 Temp./Humi. :24.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2312.56	Average	40.73	-3.70	37.03	54.00	-16.97
2363.31	Peak	51.86	-3.85	48.01	74.00	-25.99
2480.00	Average	99.71	-4.15	95.56	-	-
2480.00	Peak	102.25	-4.15	98.10	-	-
2483.50	Average	50.64	-4.12	46.52	54.00	-7.48
2483.50	Peak	59.76	-4.12	55.64	74.00	-18.36

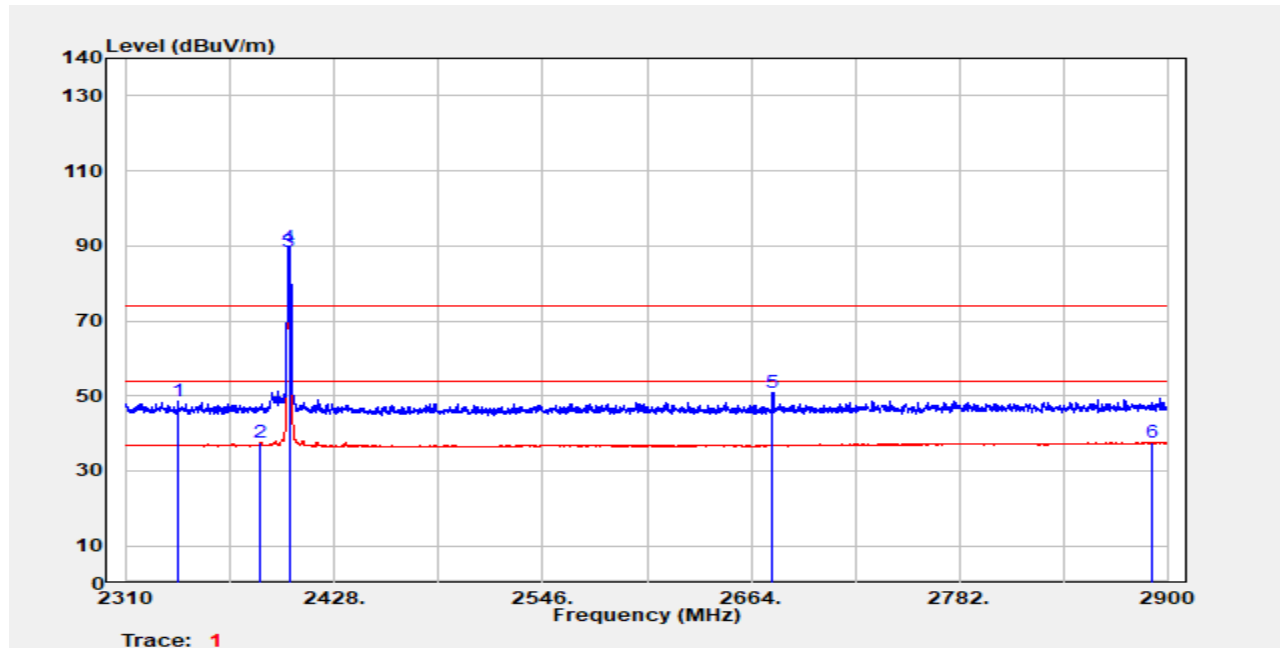
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AN54LQ-P

Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :23.1°C/52%
Antenna Pol. :Vertical
Engineer :Alex Li



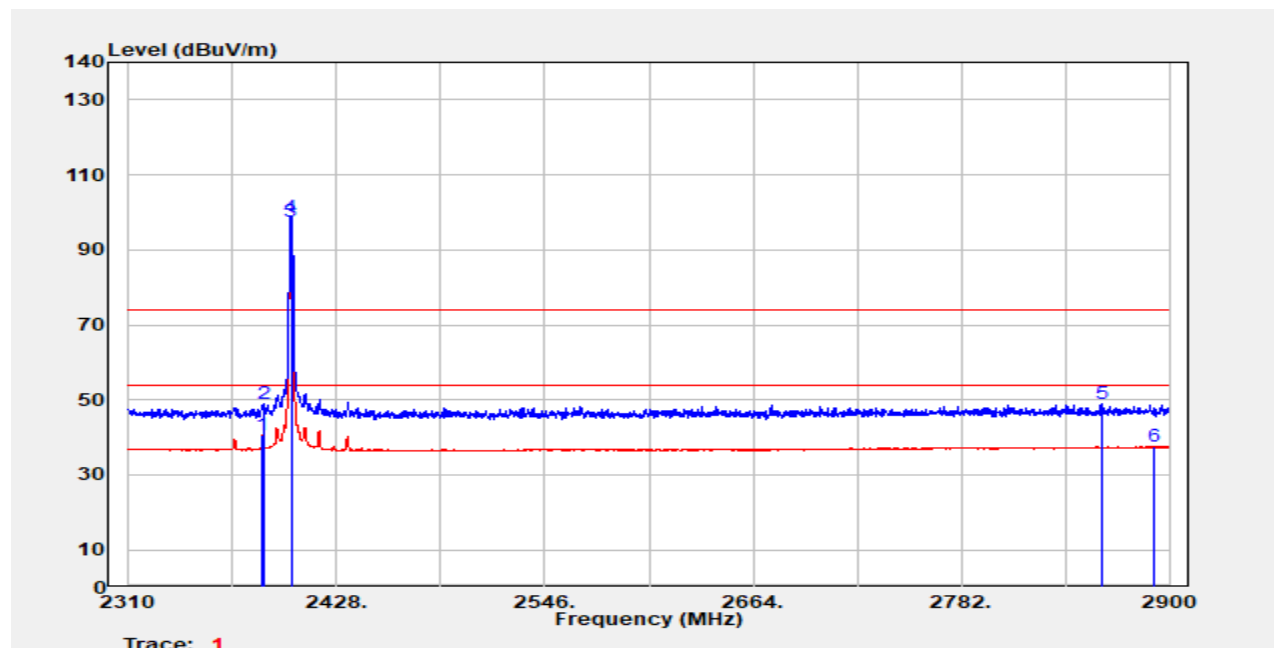
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2338.72	Peak	52.20	-3.78	48.42	74.00	-25.58
2385.94	Average	41.43	-3.92	37.51	54.00	-16.49
2402.00	Average	92.47	-4.01	88.46	-	-
2402.00	Peak	93.65	-4.01	89.64	-	-
2676.32	Peak	54.69	-3.89	50.80	74.00	-23.20
2891.34	Average	40.42	-2.81	37.61	54.00	-16.39

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :23.1°C/52%
Antenna Pol. :Horizontal
Engineer :Alex Li



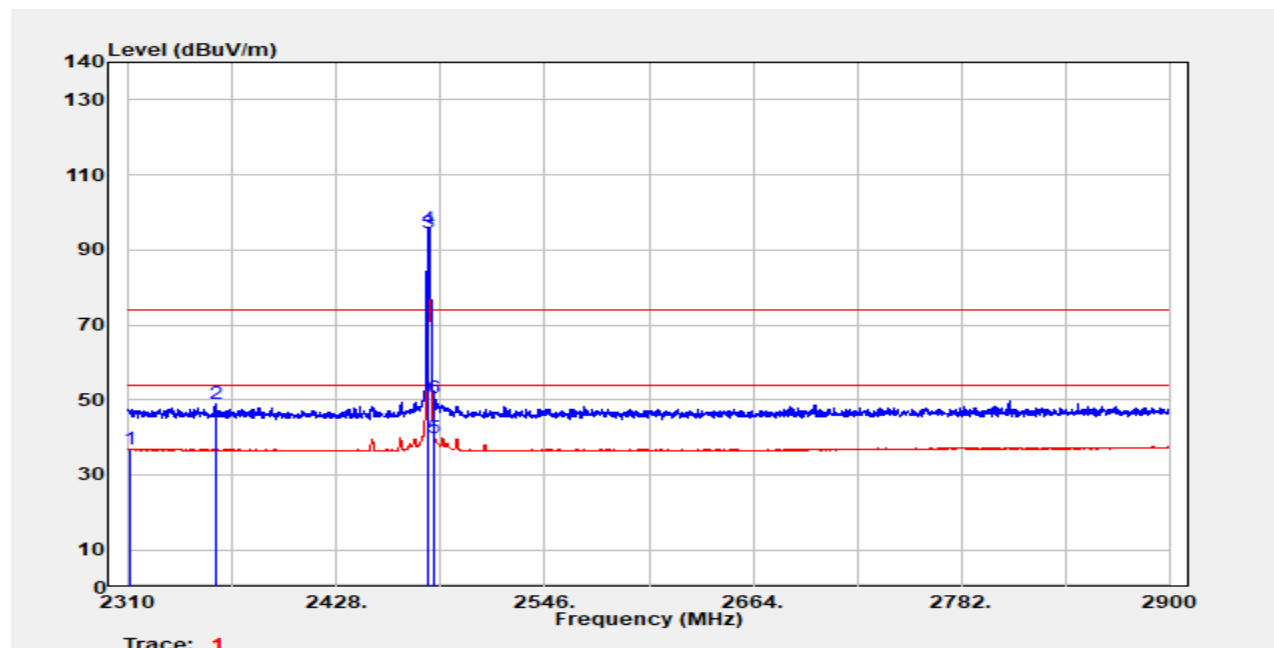
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.94	Average	44.67	-3.92	40.75	54.00	-13.25
2386.33	Peak	52.98	-3.92	49.06	74.00	-24.94
2402.00	Average	101.46	-4.01	97.45	-	-
2402.00	Peak	102.58	-4.01	98.57	-	-
2861.44	Peak	51.97	-2.93	49.04	74.00	-24.96
2891.74	Average	40.31	-2.81	37.50	54.00	-16.50

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :23.1°C/52%
Antenna Pol. :Vertical
Engineer :Alex Li



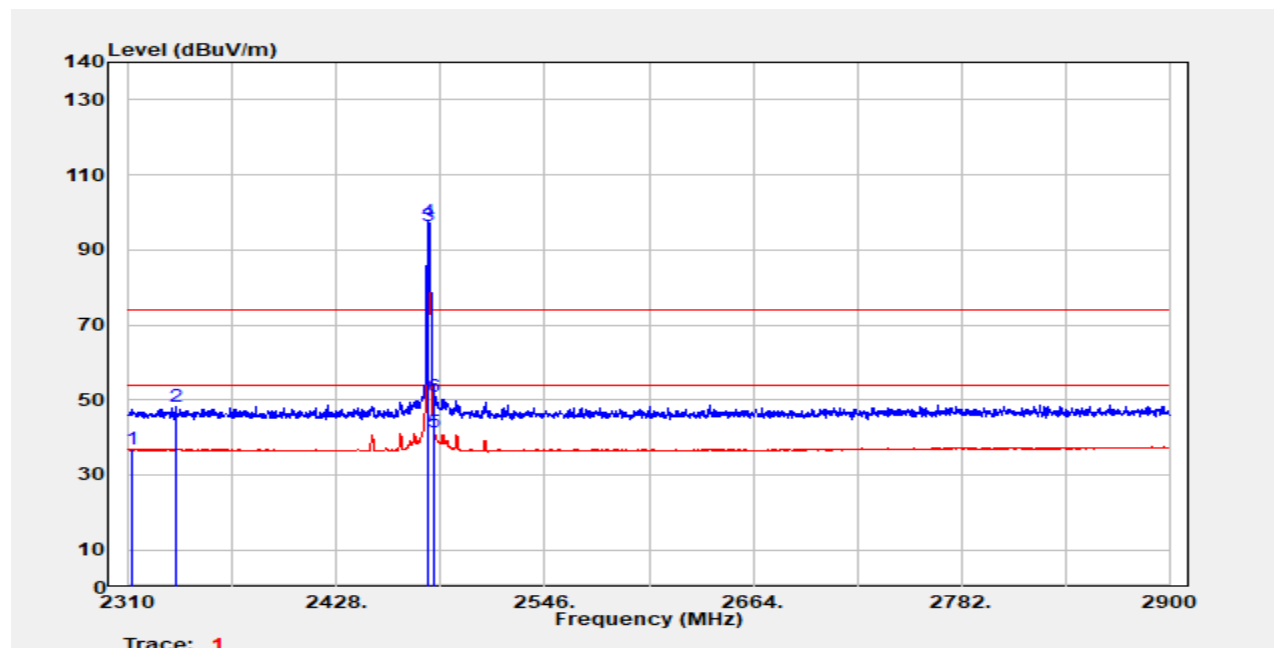
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2310.59	Average	40.48	-3.70	36.78	54.00	-17.22
2358.99	Peak	52.89	-3.85	49.04	74.00	-24.96
2480.00	Average	98.60	-4.15	94.45	-	-
2480.00	Peak	99.69	-4.15	95.54	-	-
2483.50	Average	44.04	-4.12	39.92	54.00	-14.08
2483.50	Peak	54.49	-4.12	50.37	74.00	-23.63

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :23.1°C/52%
Antenna Pol. :Horizontal
Engineer :Alex Li



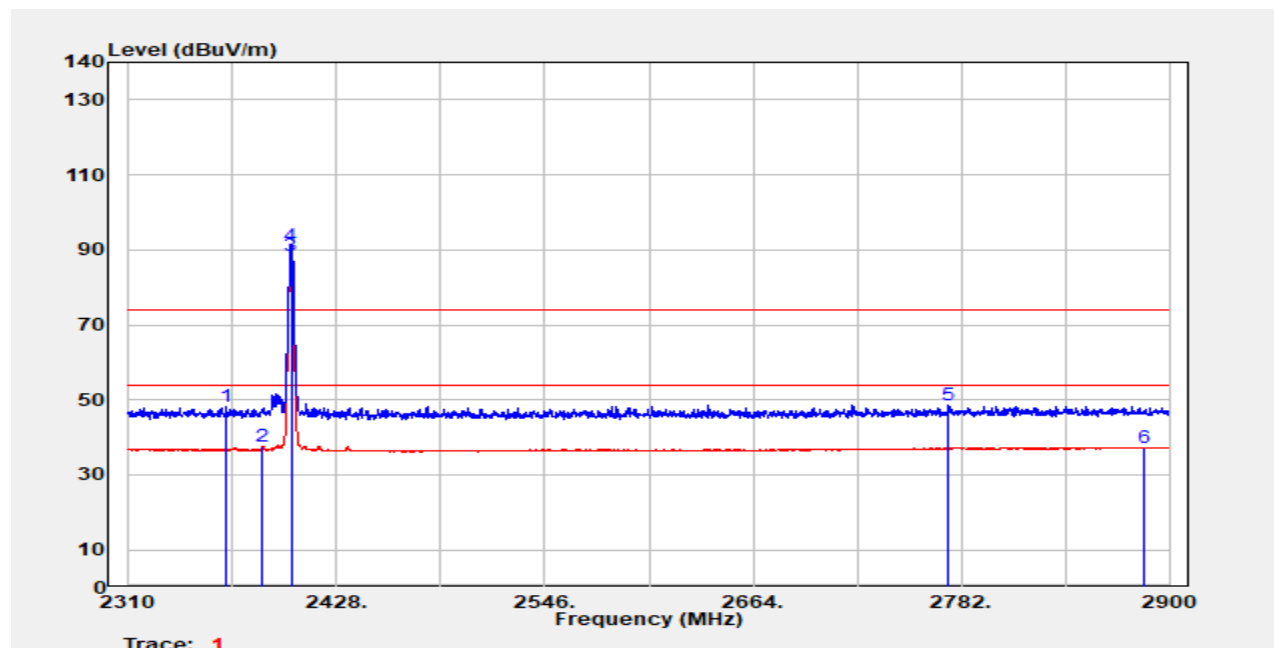
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBUV/m	Margin dB
2311.97	Average	40.52	-3.69	36.83	54.00	-17.17
2336.76	Peak	51.85	-3.77	48.08	74.00	-25.92
2480.00	Average	100.38	-4.15	96.23	-	-
2480.00	Peak	101.48	-4.15	97.33	-	-
2483.50	Average	45.33	-4.12	41.21	54.00	-12.79
2483.50	Peak	55.10	-4.12	50.98	74.00	-23.02

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-27
 Temp./Humi. :23.1°C/52%
 Antenna Pol. :Vertical
 Engineer :Alex Li



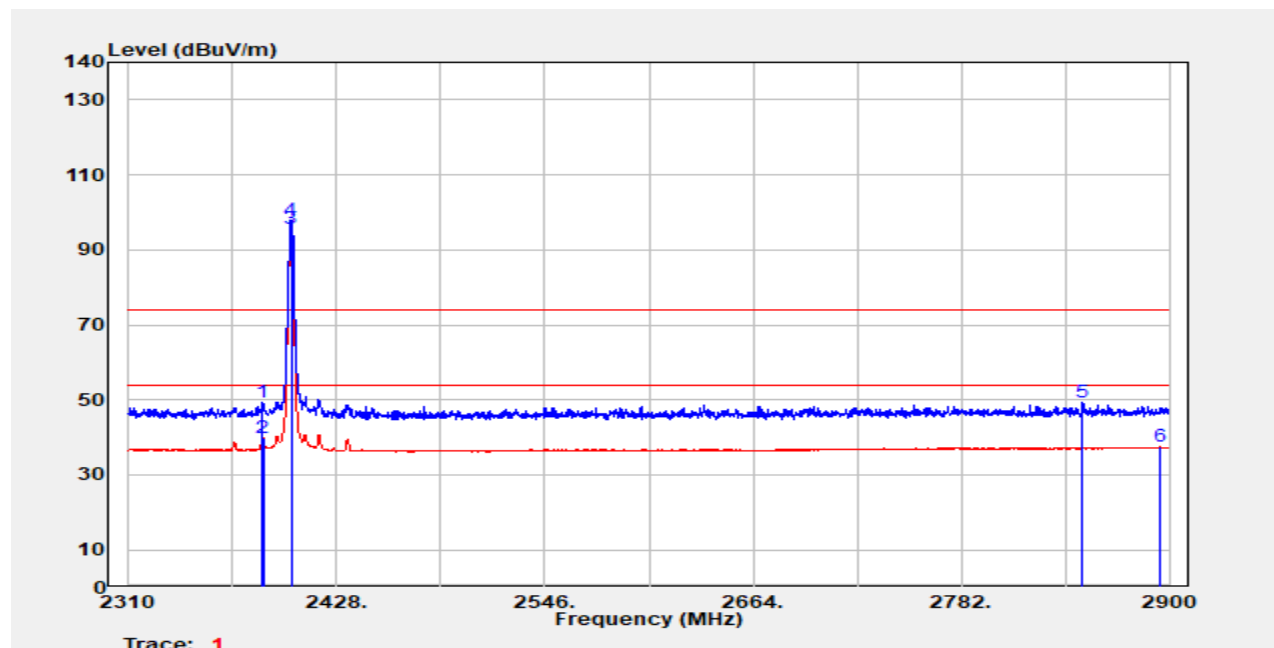
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2364.89	Peak	51.85	-3.85	48.00	74.00	-26.00
2385.94	Average	41.31	-3.92	37.39	54.00	-16.61
2402.00	Average	92.60	-4.01	88.59	-	-
2402.00	Peak	95.08	-4.01	91.07	-	-
2775.08	Peak	51.91	-3.28	48.63	74.00	-25.37
2885.84	Average	40.22	-2.85	37.37	54.00	-16.63

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :23.1°C/52%
Antenna Pol. :Horizontal
Engineer :Alex Li



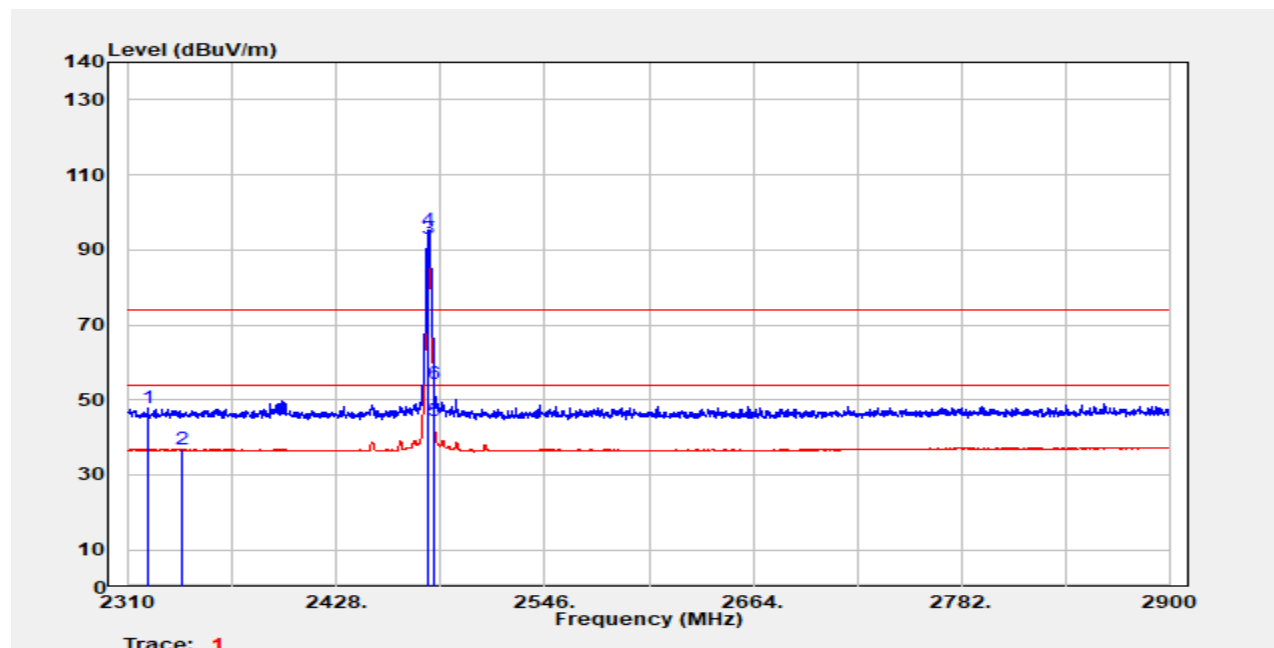
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.74	Peak	53.23	-3.92	49.31	74.00	-24.69
2386.14	Average	43.59	-3.92	39.67	54.00	-14.33
2402.00	Average	99.60	-4.01	95.59	-	-
2402.00	Peak	102.00	-4.01	97.99	-	-
2851.01	Peak	52.26	-3.03	49.23	74.00	-24.77
2894.30	Average	40.19	-2.81	37.38	54.00	-16.62

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-27
 Temp./Humi. :23.1°C/52%
 Antenna Pol. :Vertical
 Engineer :Alex Li



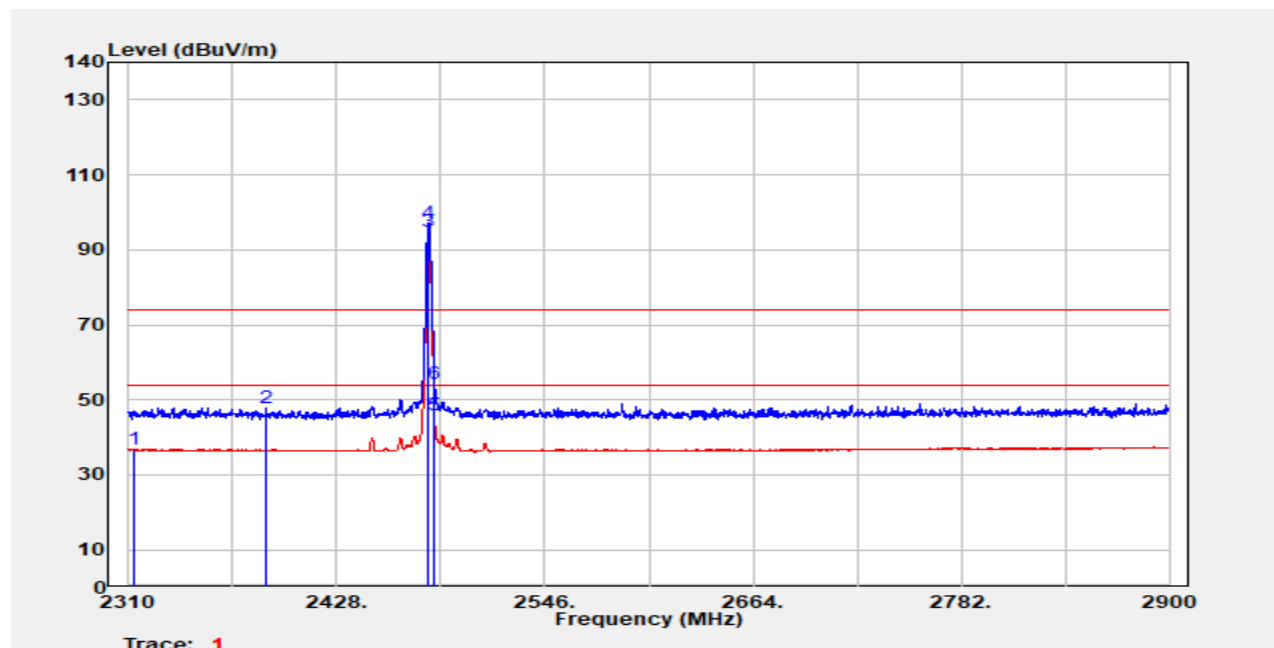
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2321.21	Peak	51.43	-3.70	47.73	74.00	-26.27
2339.71	Average	40.58	-3.77	36.81	54.00	-17.19
2480.00	Average	97.21	-4.15	93.06	-	-
2480.00	Peak	99.50	-4.15	95.35	-	-
2483.50	Average	48.33	-4.12	44.21	54.00	-9.79
2483.50	Peak	58.21	-4.12	54.09	74.00	-19.91

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :23.1°C/52%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2313.34	Average	40.47	-3.70	36.77	54.00	-17.23
2388.10	Peak	51.80	-3.93	47.87	74.00	-26.13
2480.00	Average	98.98	-4.15	94.83	-	-
2480.00	Peak	101.29	-4.15	97.14	-	-
2483.50	Average	49.87	-4.12	45.75	54.00	-8.25
2483.50	Peak	58.41	-4.12	54.29	74.00	-19.71

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AN54LQ-U

Antenna: RFA-02-5-F17H170100B

Report Number :TERF2502000650E2

Operation Mode :BLE 1M

Test Frequency :2402 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

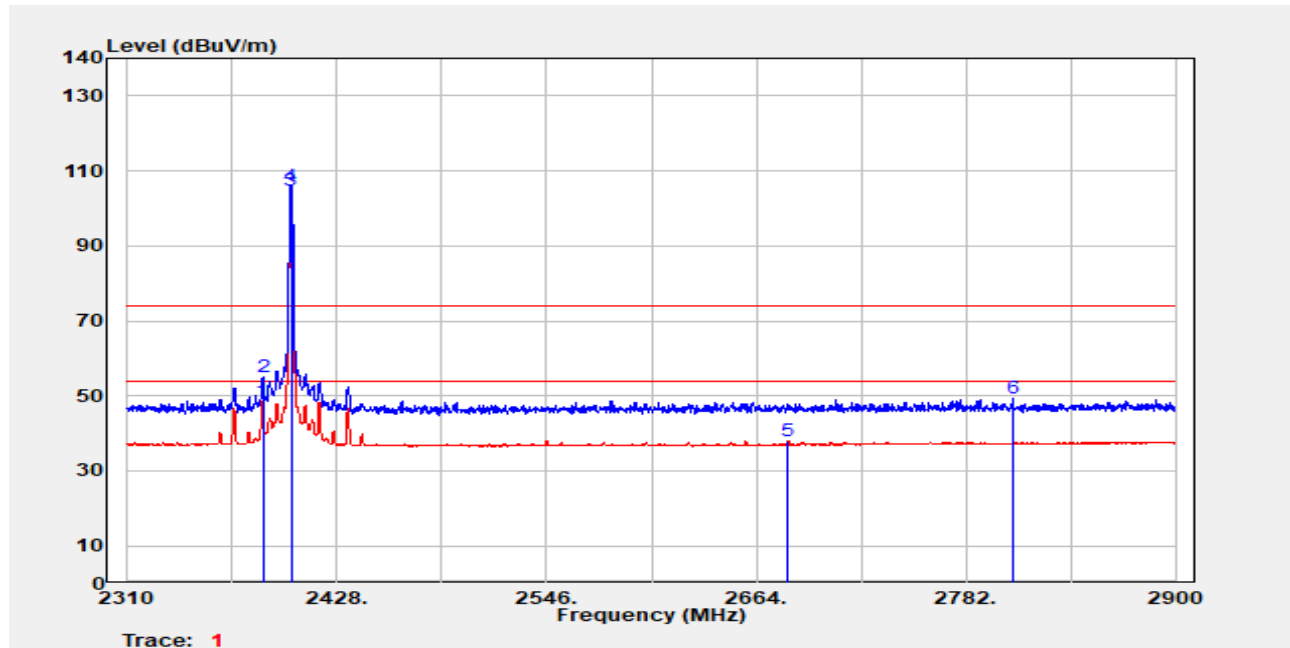
Test Site :SAC C

Test Date :2025-06-30

Temp./Humi. :24.2°C/51%

Antenna Pol. :Vertical

Engineer :Alex Li



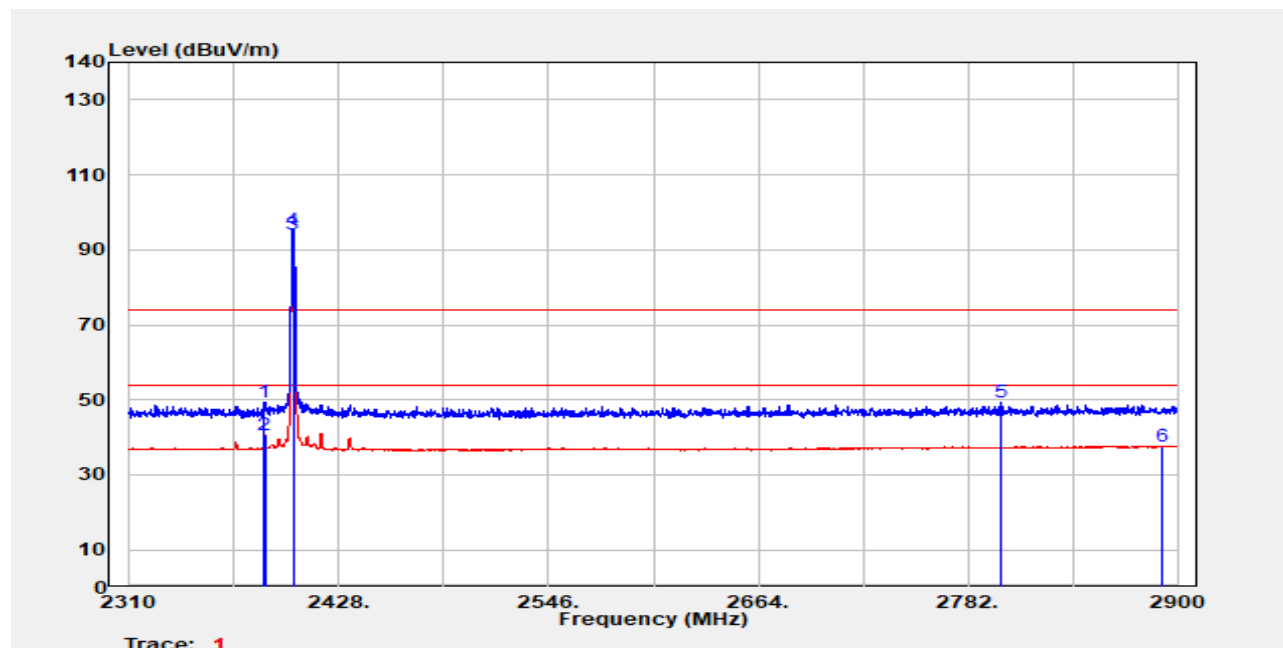
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2386.14	Average	52.60	-3.92	48.68	54.00	-5.32
2386.33	Peak	58.93	-3.92	55.01	74.00	-18.99
2402.00	Average	108.73	-4.01	104.72	-	-
2402.00	Peak	109.82	-4.01	105.81	-	-
2682.02	Average	41.94	-3.85	38.09	54.00	-15.91
2808.32	Peak	52.48	-3.21	49.27	74.00	-24.73

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-30
Temp./Humi. :24.2°C/51%
Antenna Pol. :Horizontal
Engineer :Alex Li



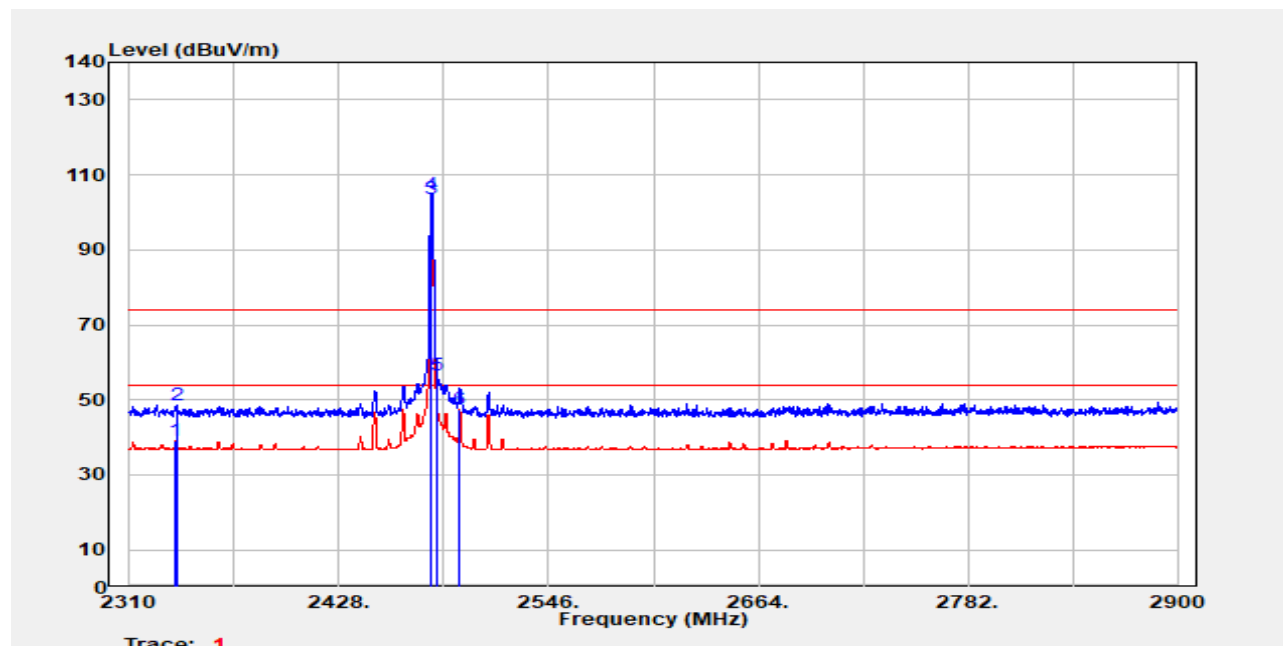
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.94	Peak	53.19	-3.92	49.27	74.00	-24.73
2386.14	Average	44.42	-3.92	40.50	54.00	-13.50
2402.00	Average	98.15	-4.01	94.14	-	-
2402.00	Peak	99.25	-4.01	95.24	-	-
2801.04	Peak	52.61	-3.29	49.32	74.00	-24.68
2891.34	Average	40.41	-2.81	37.60	54.00	-16.40

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Report Number :TERF2502000650E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-30
 Temp./Humi. :24.2°C/51%
 Antenna Pol. :Vertical
 Engineer :Alex Li



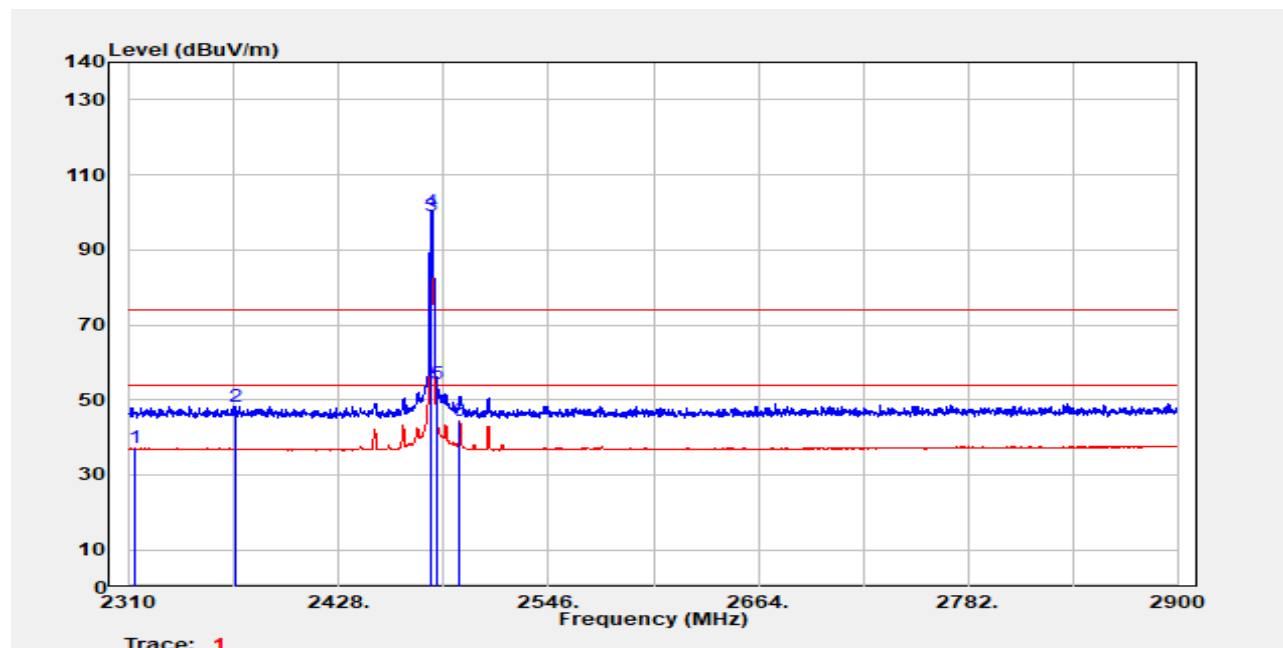
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2335.97	Average	42.81	-3.77	39.04	54.00	-14.96
2336.36	Peak	52.40	-3.77	48.63	74.00	-25.37
2480.00	Average	107.85	-4.15	103.70	-	-
2480.00	Peak	108.97	-4.15	104.82	-	-
2483.50	Peak	60.49	-4.12	56.37	74.00	-17.63
2496.11	Average	51.35	-4.11	47.24	54.00	-6.76

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Report Number :TERF2502000650E2
 Operation Mode :BLE 1M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-30
 Temp./Humi. :24.2°C/51%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



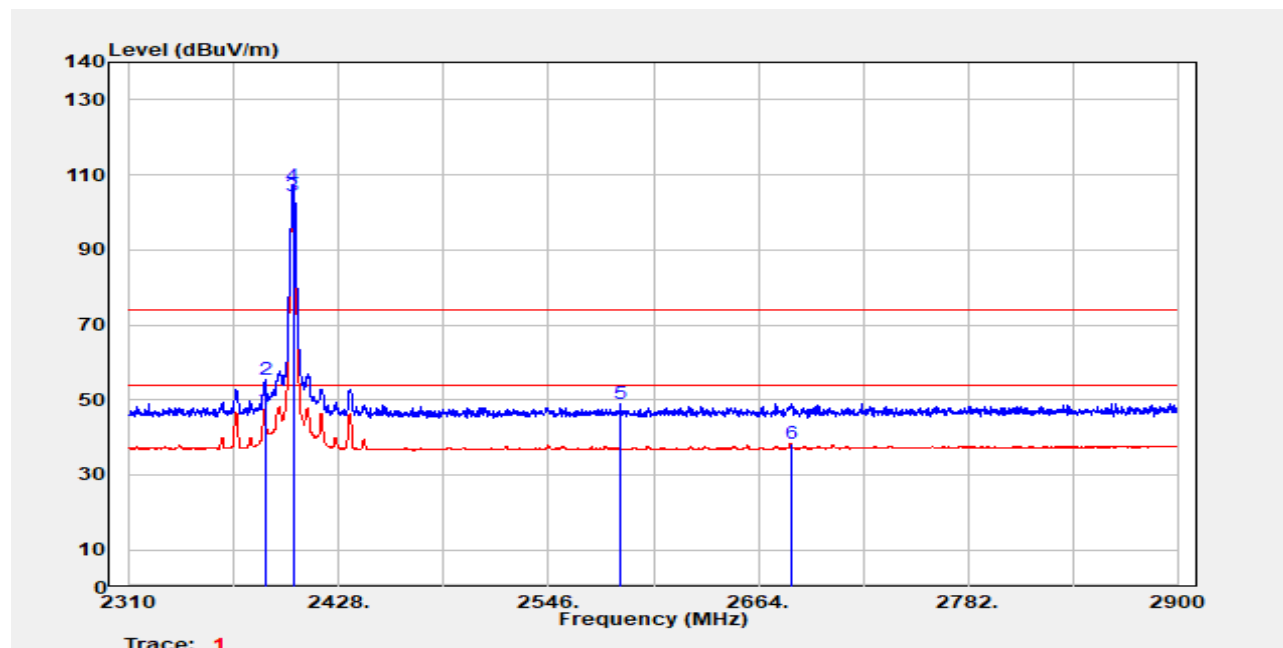
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2312.75	Average	40.75	-3.70	37.05	54.00	-16.95
2369.22	Peak	52.01	-3.84	48.17	74.00	-25.83
2480.00	Average	103.15	-4.15	99.00	-	-
2480.00	Peak	104.23	-4.15	100.08	-	-
2483.50	Peak	58.35	-4.12	54.23	74.00	-19.77
2496.11	Average	48.32	-4.11	44.21	54.00	-9.79

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-30
Temp./Humi. :24.2°C/51%
Antenna Pol. :Vertical
Engineer :Alex Li



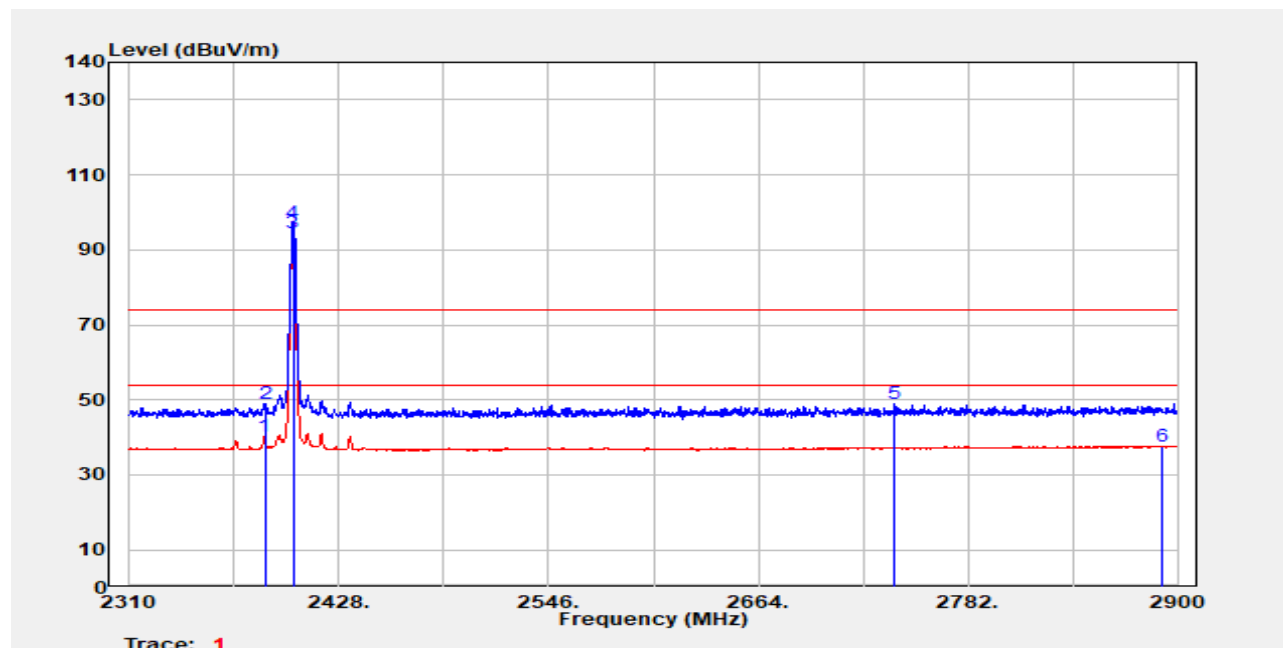
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.14	Average	51.51	-3.92	47.59	54.00	-6.41
2386.53	Peak	59.15	-3.92	55.23	74.00	-18.77
2402.00	Average	108.33	-4.01	104.32	-	-
2402.00	Peak	110.88	-4.01	106.87	-	-
2586.21	Peak	53.04	-3.94	49.10	74.00	-24.90
2682.22	Average	42.24	-3.85	38.39	54.00	-15.61

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-30
 Temp./Humi. :24.2°C/51%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



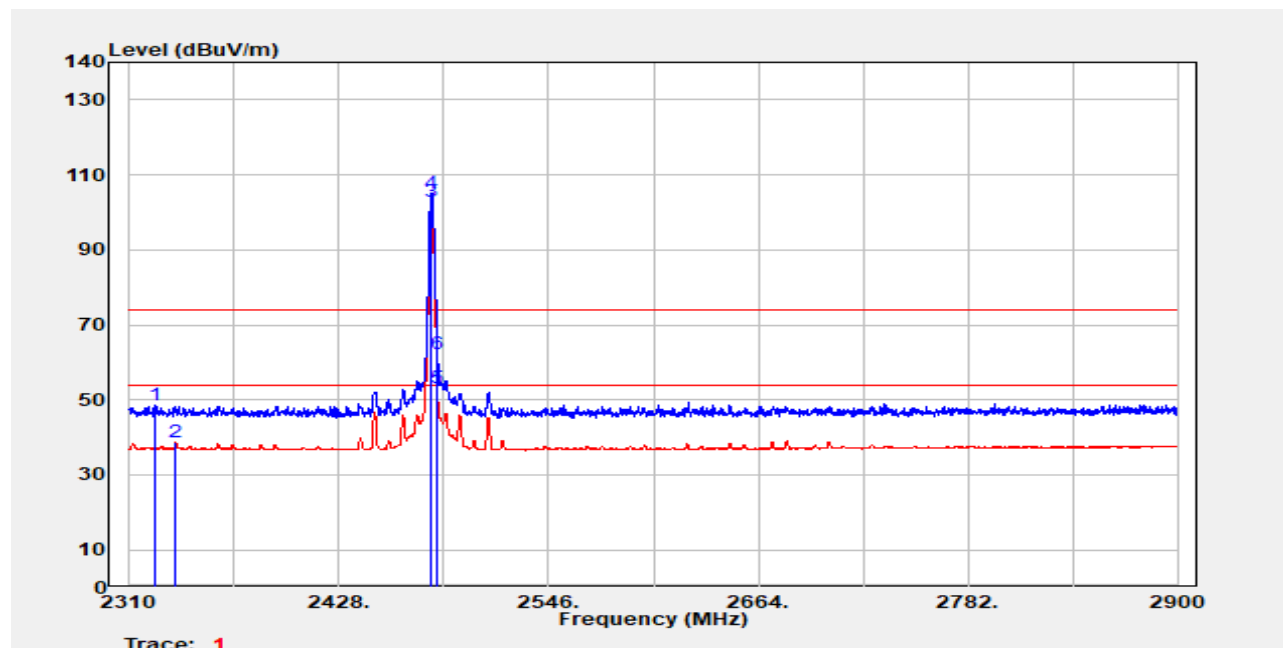
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.14	Average	44.02	-3.92	40.10	54.00	-13.90
2386.33	Peak	52.82	-3.92	48.90	74.00	-25.10
2402.00	Average	98.62	-4.01	94.61	-	-
2402.00	Peak	101.15	-4.01	97.14	-	-
2741.04	Peak	52.52	-3.48	49.04	74.00	-24.96
2891.15	Average	40.48	-2.81	37.67	54.00	-16.33

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-30
Temp./Humi. :24.2°C/51%
Antenna Pol. :Vertical
Engineer :Alex Li



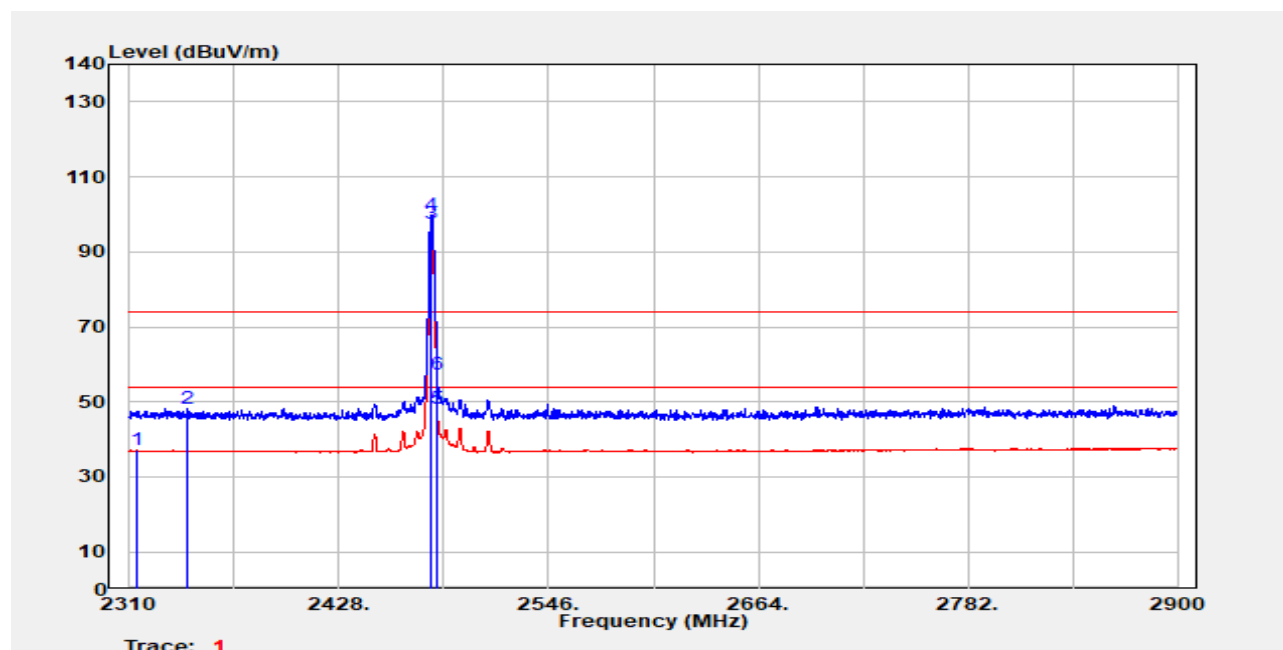
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2324.76	Peak	52.20	-3.74	48.46	74.00	-25.54
2335.97	Average	42.47	-3.77	38.70	54.00	-15.30
2480.00	Average	106.87	-4.15	102.72	-	-
2480.00	Peak	109.23	-4.15	105.08	-	-
2483.50	Average	57.16	-4.12	53.04	54.00	-0.96
2483.50	Peak	66.34	-4.12	62.22	74.00	-11.78

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Report Number :TERF2502000650E2
 Operation Mode :BLE 2M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-06-30
 Temp./Humi. :24.2°C/51%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2314.53	Average	40.72	-3.70	37.02	54.00	-16.98
2342.07	Peak	51.89	-3.79	48.10	74.00	-25.90
2480.00	Average	101.70	-4.15	97.55	-	-
2480.00	Peak	104.09	-4.15	99.94	-	-
2483.50	Average	52.16	-4.12	48.04	54.00	-5.96
2483.50	Peak	61.31	-4.12	57.19	74.00	-16.81

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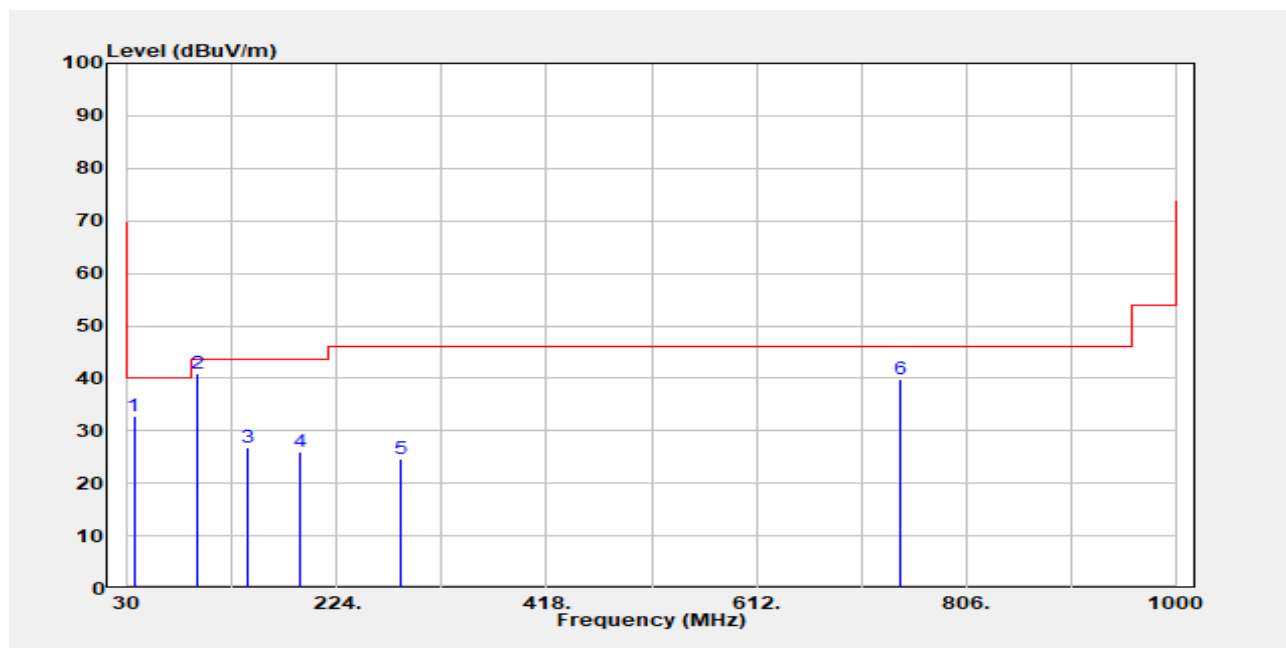
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11.4.2 Radiated Spurious Emission

AN54LQ

Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



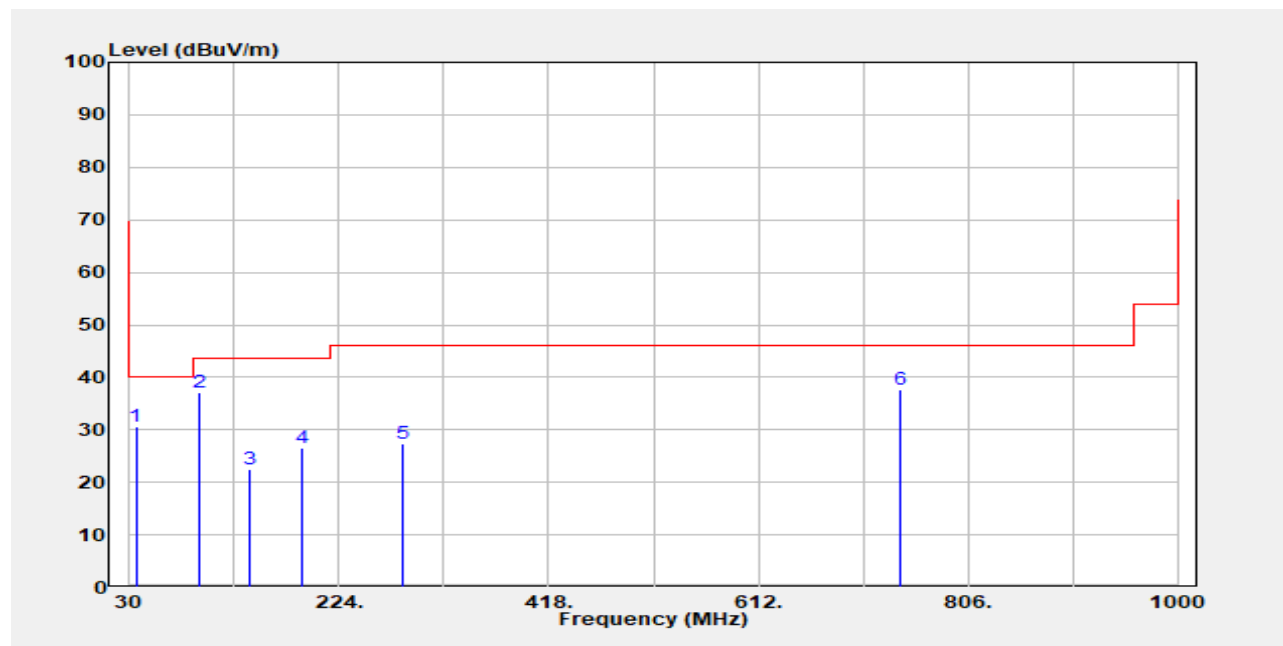
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	QP	45.69	-12.79	32.90	40.00	-7.10
94.44	QP	58.50	-17.67	40.83	43.50	-2.67
141.55	Peak	39.27	-12.51	26.76	43.50	-16.74
189.08	Peak	40.68	-14.64	26.04	43.50	-17.46
283.17	Peak	35.97	-11.33	24.64	46.00	-21.36
744.89	Peak	40.96	-1.15	39.81	46.00	-6.19

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



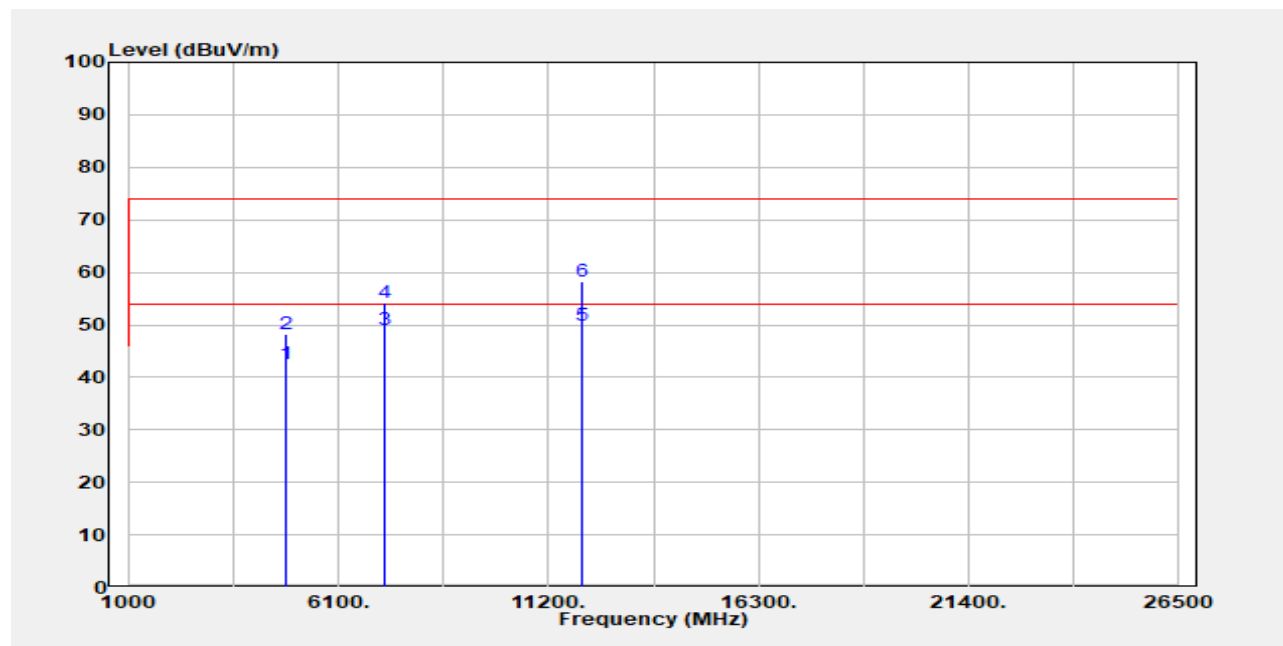
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	Peak	43.34	-12.79	30.55	40.00	-9.45
94.02	Peak	54.80	-17.63	37.17	43.50	-6.33
141.55	Peak	34.98	-12.51	22.47	43.50	-21.03
189.08	Peak	41.26	-14.64	26.62	43.50	-16.88
283.17	Peak	38.60	-11.33	27.27	46.00	-18.73
743.92	Peak	38.97	-1.17	37.80	46.00	-8.20

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-26
Temp./Humi. :24.1°C/61%
Antenna Pol. :Vertical
Engineer :Alex Li



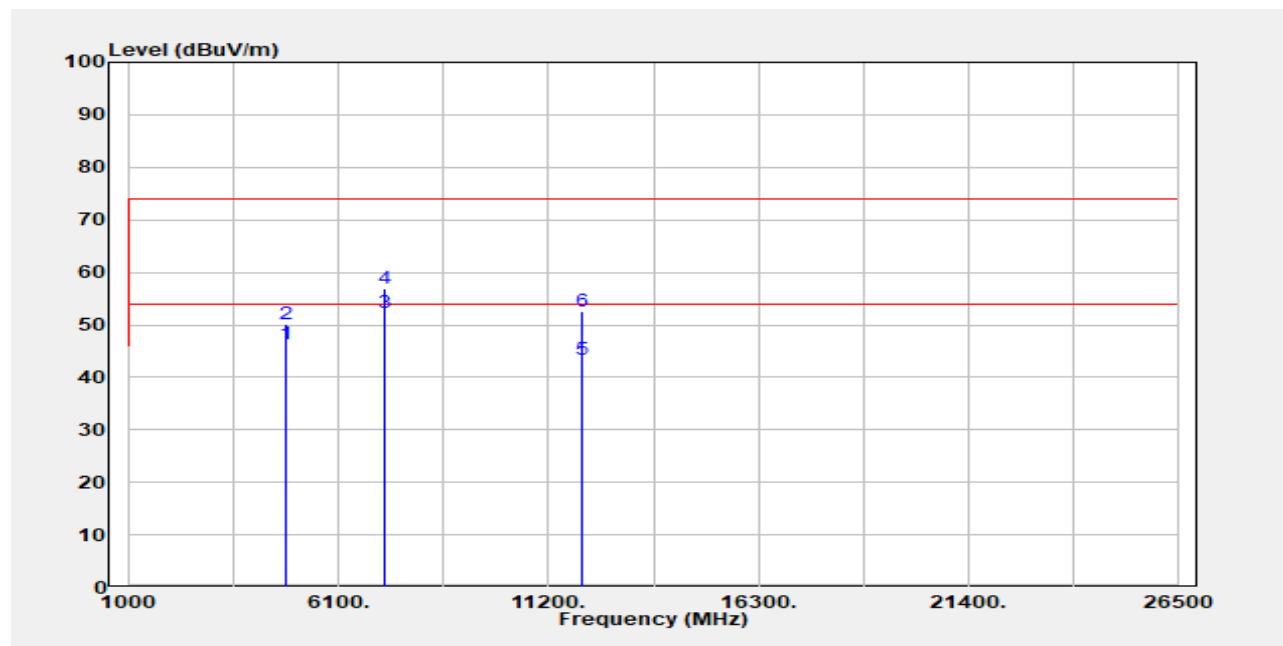
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	42.50	0.10	42.60	54.00	-11.40
4804.00	Peak	48.13	0.10	48.23	74.00	-25.77
7206.00	Average	42.75	6.26	49.01	54.00	-4.99
7206.00	Peak	47.98	6.26	54.24	74.00	-19.76
12010.00	Average	42.48	7.27	49.75	54.00	-4.25
12010.00	Peak	51.01	7.27	58.28	74.00	-15.72

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-26
Temp./Humi. :24.1°C/61%
Antenna Pol. :Horizontal
Engineer :Alex Li



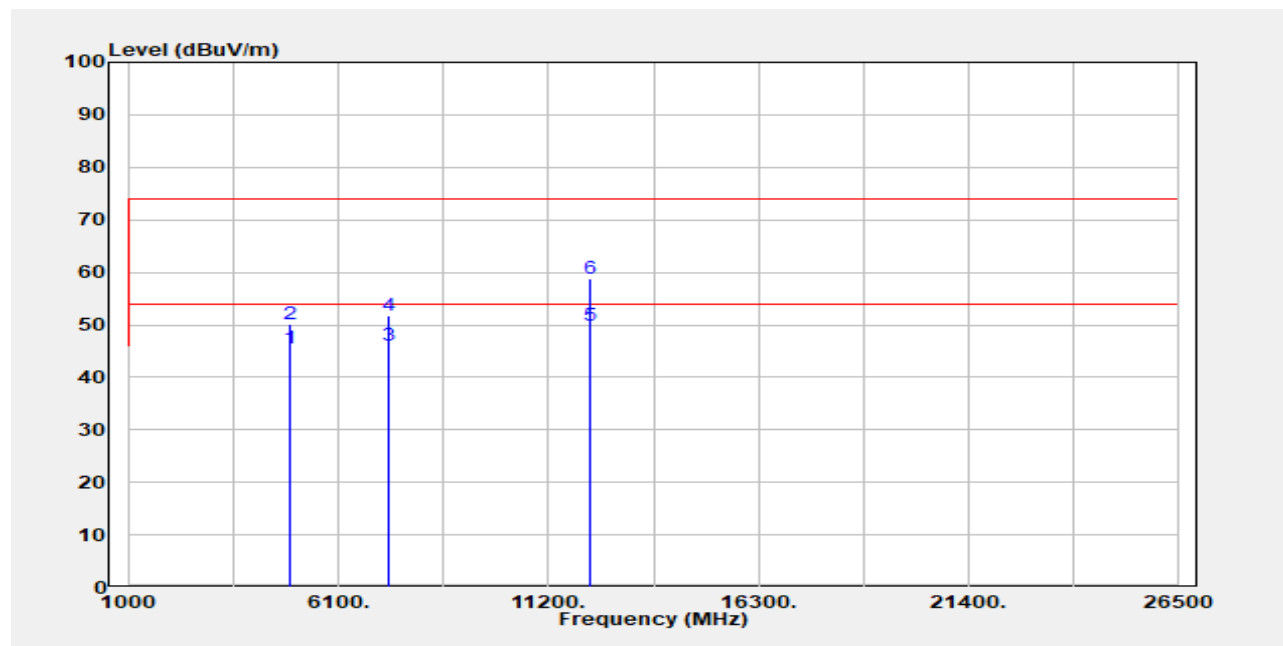
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	46.12	0.10	46.22	54.00	-7.78
4804.00	Peak	50.16	0.10	50.26	74.00	-23.74
7206.00	Average	45.93	6.26	52.19	54.00	-1.81
7206.00	Peak	50.75	6.26	57.01	74.00	-16.99
12010.00	Average	36.09	7.27	43.36	54.00	-10.64
12010.00	Peak	45.28	7.27	52.55	74.00	-21.45

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



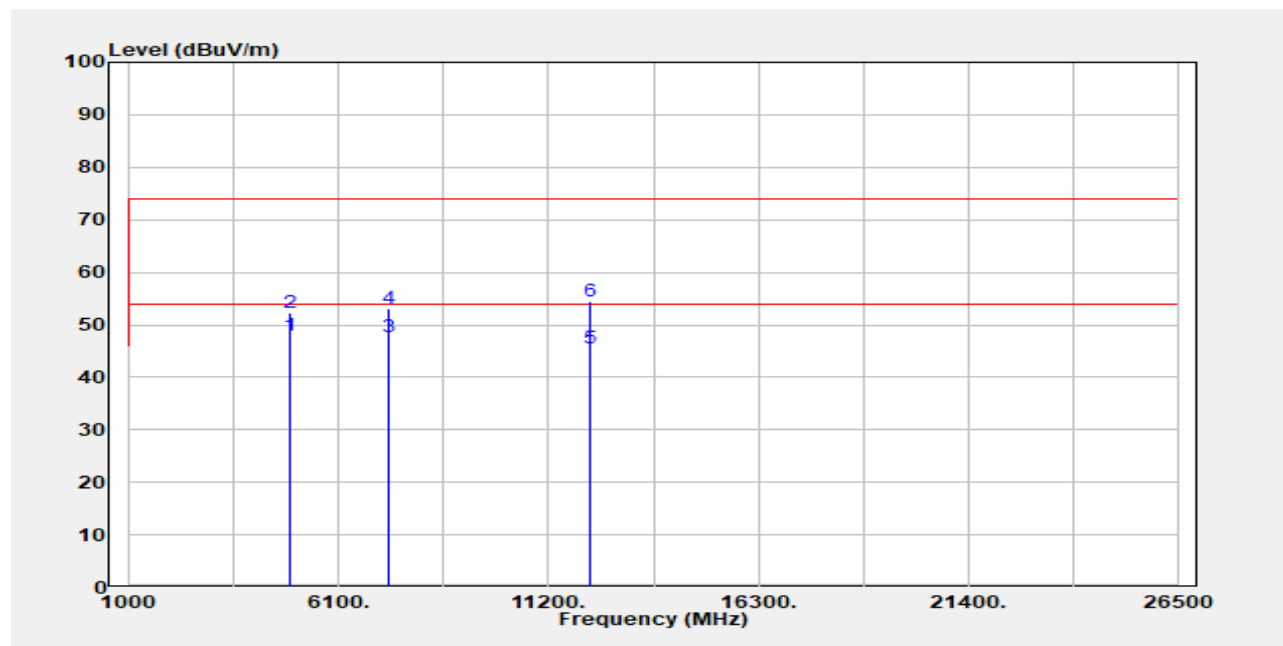
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	45.29	0.29	45.58	54.00	-8.42
4884.00	Peak	49.85	0.29	50.14	74.00	-23.86
7326.00	Average	39.47	6.55	46.02	54.00	-7.98
7326.00	Peak	45.30	6.55	51.85	74.00	-22.15
12210.00	Average	42.47	7.36	49.83	54.00	-4.17
12210.00	Peak	51.33	7.36	58.69	74.00	-15.31

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



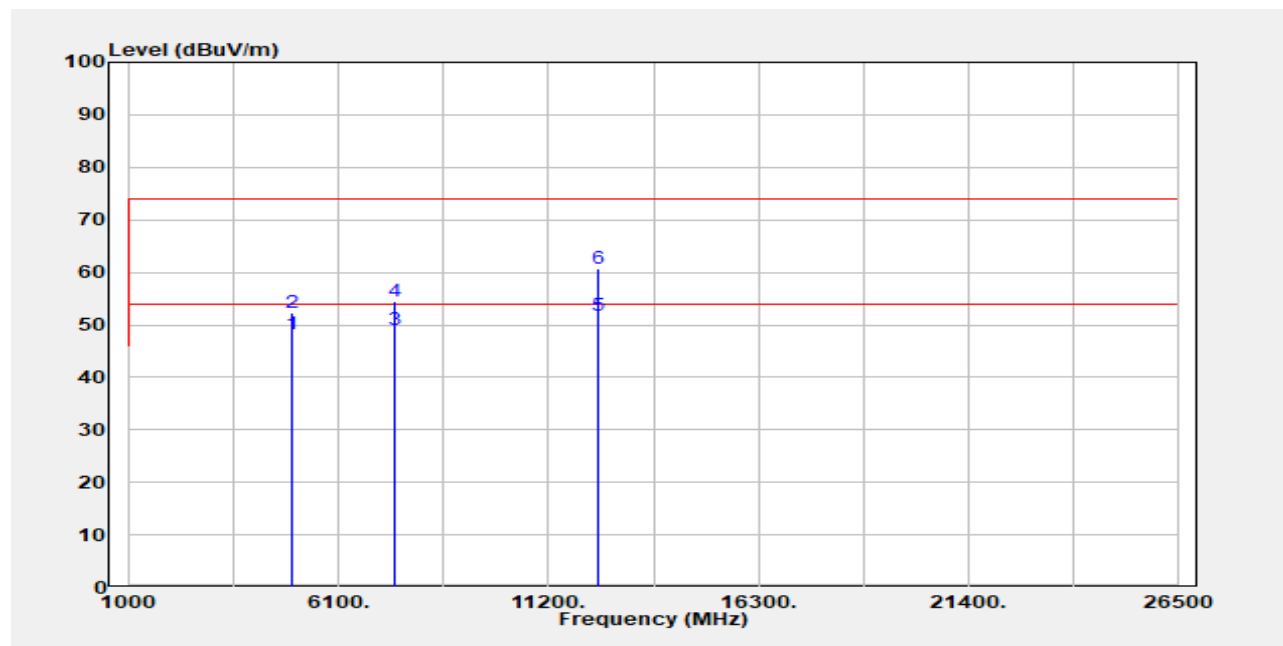
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	47.63	0.29	47.92	54.00	-6.08
4884.00	Peak	51.95	0.29	52.24	74.00	-21.76
7326.00	Average	41.10	6.55	47.65	54.00	-6.35
7326.00	Peak	46.54	6.55	53.09	74.00	-20.91
12210.00	Average	38.30	7.36	45.66	54.00	-8.34
12210.00	Peak	47.03	7.36	54.39	74.00	-19.61

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



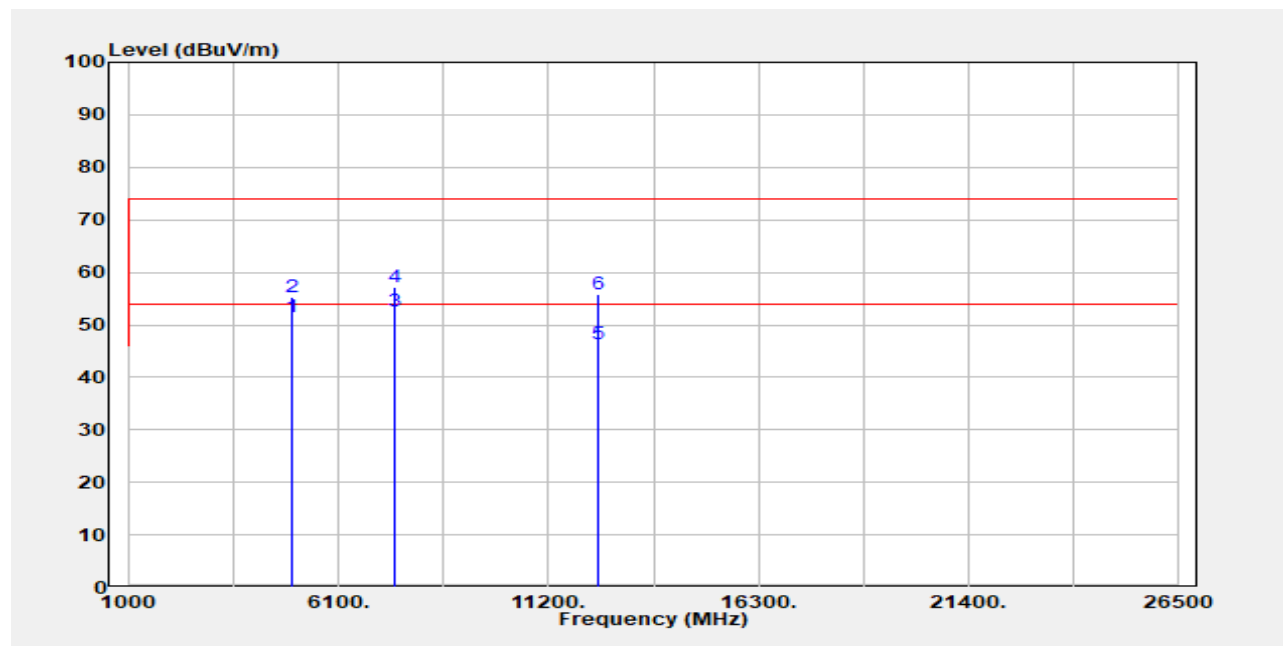
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	47.68	0.49	48.17	54.00	-5.83
4960.00	Peak	51.85	0.49	52.34	74.00	-21.66
7440.00	Average	42.86	6.25	49.11	54.00	-4.89
7440.00	Peak	48.12	6.25	54.37	74.00	-19.63
12400.00	Average	44.83	6.98	51.81	54.00	-2.19
12400.00	Peak	53.70	6.98	60.68	74.00	-13.32

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



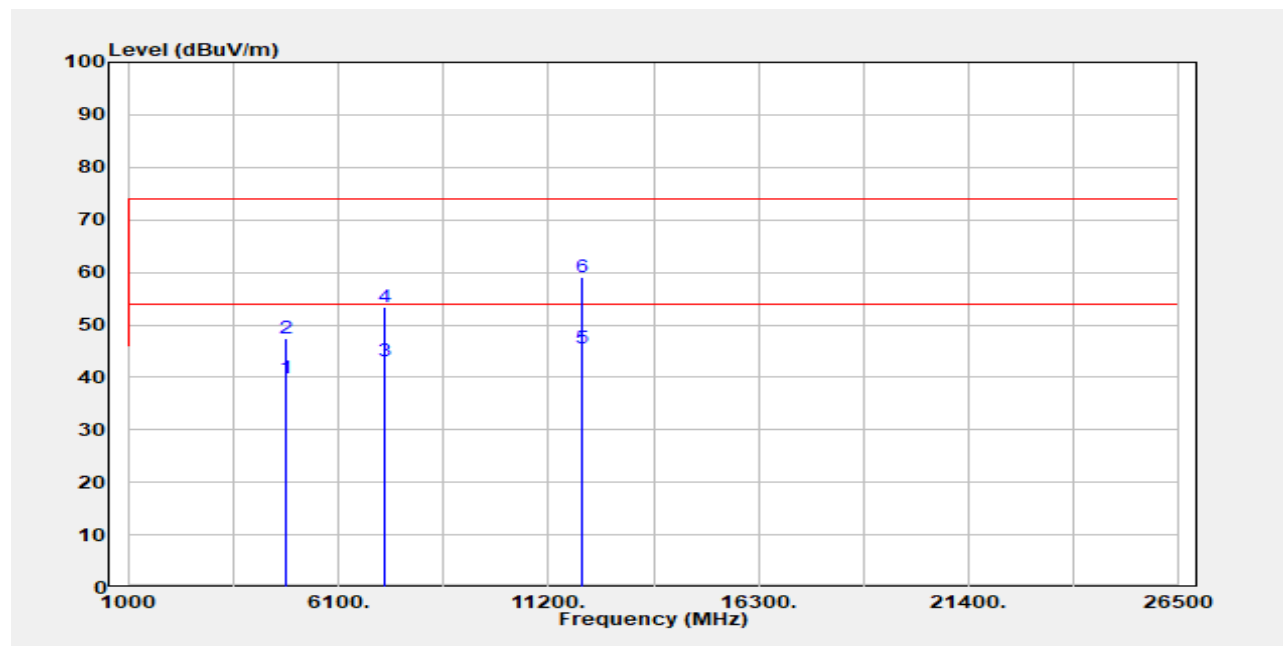
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	51.11	0.49	51.60	54.00	-2.40
4960.00	Peak	54.90	0.49	55.39	74.00	-18.61
7440.00	Average	46.25	6.25	52.50	54.00	-1.50
7440.00	Peak	51.04	6.25	57.29	74.00	-16.71
12400.00	Average	39.30	6.98	46.28	54.00	-7.72
12400.00	Peak	48.75	6.98	55.73	74.00	-18.27

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



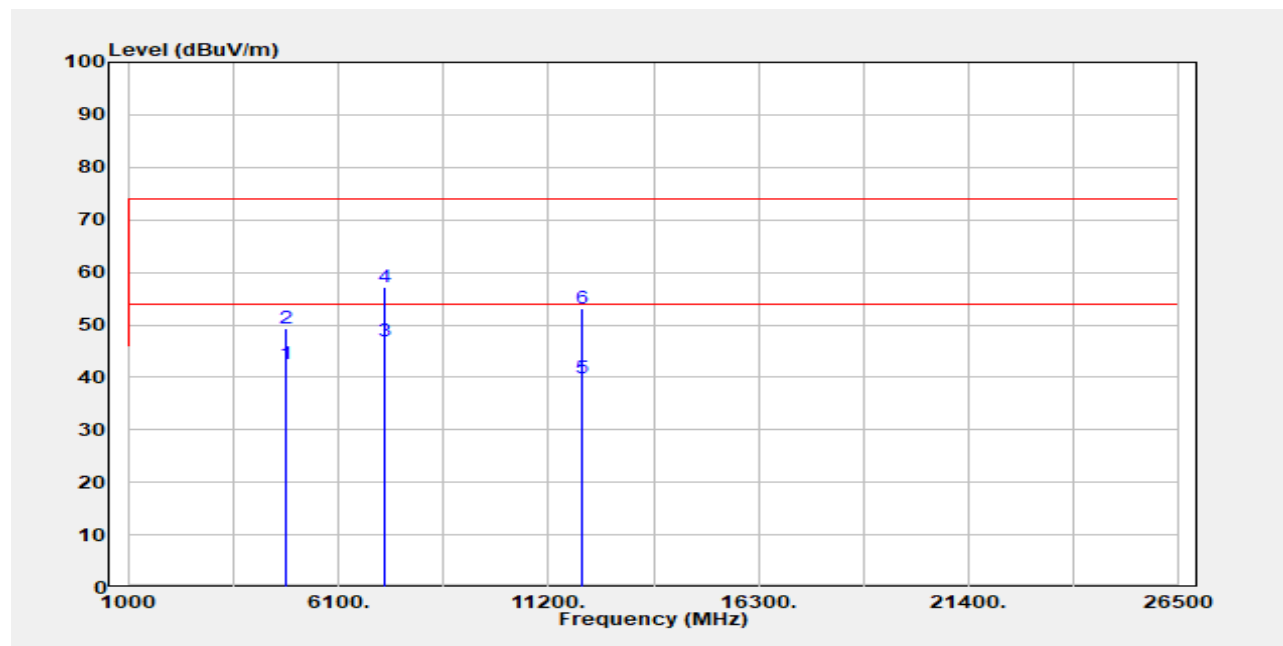
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	39.64	0.10	39.74	54.00	-14.26
4804.00	Peak	47.24	0.10	47.34	74.00	-26.66
7206.00	Average	36.77	6.26	43.03	54.00	-10.97
7206.00	Peak	47.25	6.26	53.51	74.00	-20.49
12010.00	Average	38.15	7.27	45.42	54.00	-8.58
12010.00	Peak	51.79	7.27	59.06	74.00	-14.94

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



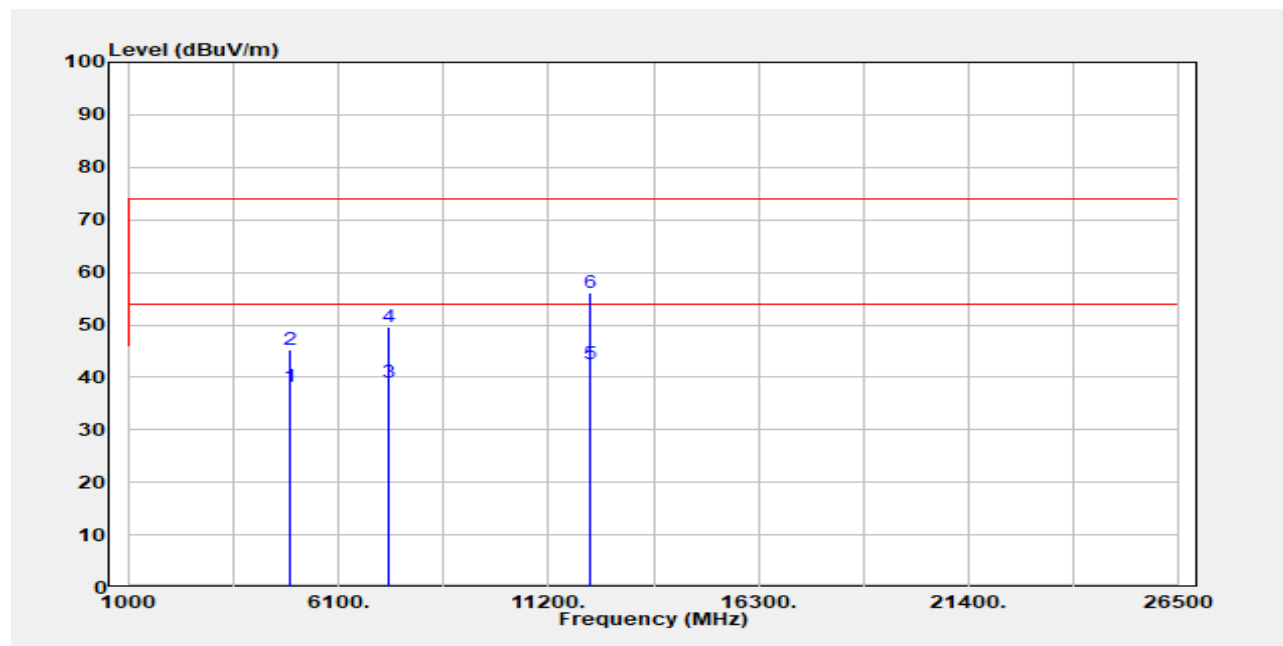
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	42.43	0.10	42.53	54.00	-11.47
4804.00	Peak	49.27	0.10	49.37	74.00	-24.63
7206.00	Average	40.73	6.26	46.99	54.00	-7.01
7206.00	Peak	50.85	6.26	57.11	74.00	-16.89
12010.00	Average	32.63	7.27	39.90	54.00	-14.10
12010.00	Peak	45.91	7.27	53.18	74.00	-20.82

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



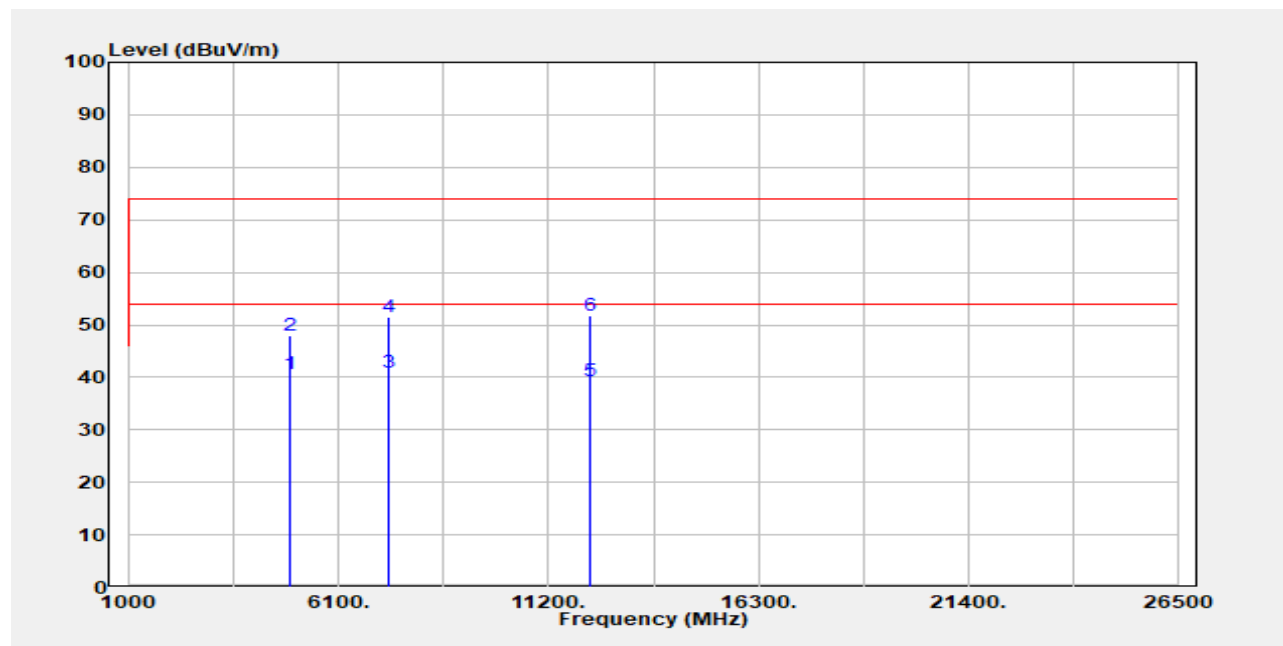
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	37.79	0.29	38.08	54.00	-15.92
4884.00	Peak	45.04	0.29	45.33	74.00	-28.67
7326.00	Average	32.45	6.55	39.00	54.00	-15.00
7326.00	Peak	43.12	6.55	49.67	74.00	-24.33
12210.00	Average	35.07	7.36	42.43	54.00	-11.57
12210.00	Peak	48.69	7.36	56.05	74.00	-17.95

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



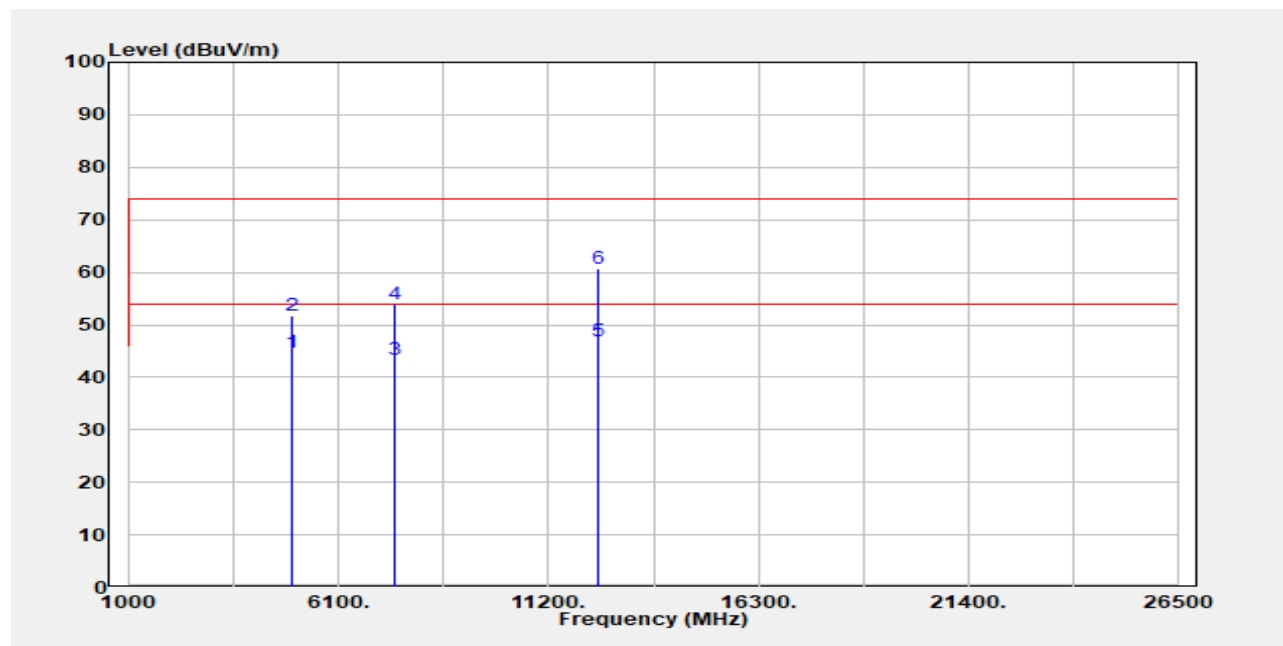
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	40.45	0.29	40.74	54.00	-13.26
4884.00	Peak	47.78	0.29	48.07	74.00	-25.93
7326.00	Average	34.47	6.55	41.02	54.00	-12.98
7326.00	Peak	44.91	6.55	51.46	74.00	-22.54
12210.00	Average	32.02	7.36	39.38	54.00	-14.62
12210.00	Peak	44.48	7.36	51.84	74.00	-22.16

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



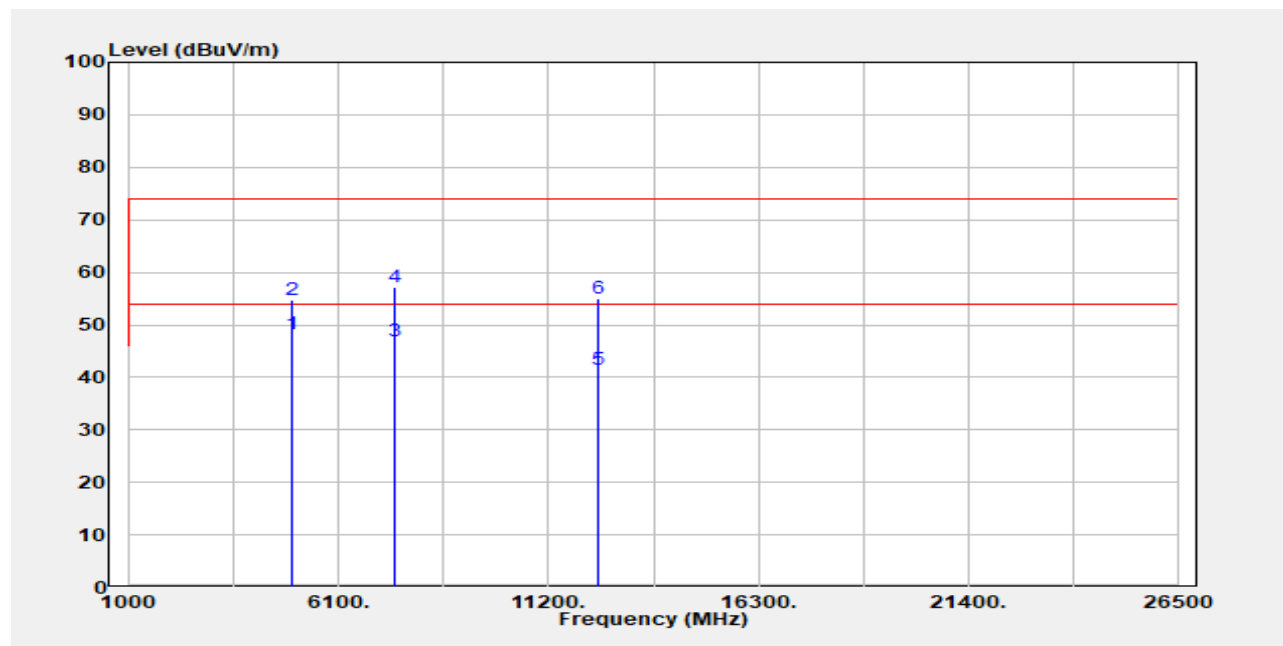
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	44.26	0.49	44.75	54.00	-9.25
4960.00	Peak	51.37	0.49	51.86	74.00	-22.14
7440.00	Average	37.01	6.25	43.26	54.00	-10.74
7440.00	Peak	47.76	6.25	54.01	74.00	-19.99
12400.00	Average	39.99	6.98	46.97	54.00	-7.03
12400.00	Peak	53.65	6.98	60.63	74.00	-13.37

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	47.82	0.49	48.31	54.00	-5.69
4960.00	Peak	54.37	0.49	54.86	74.00	-19.14
7440.00	Average	40.52	6.25	46.77	54.00	-7.23
7440.00	Peak	50.89	6.25	57.14	74.00	-16.86
12400.00	Average	34.59	6.98	41.57	54.00	-12.43
12400.00	Peak	48.11	6.98	55.09	74.00	-18.91

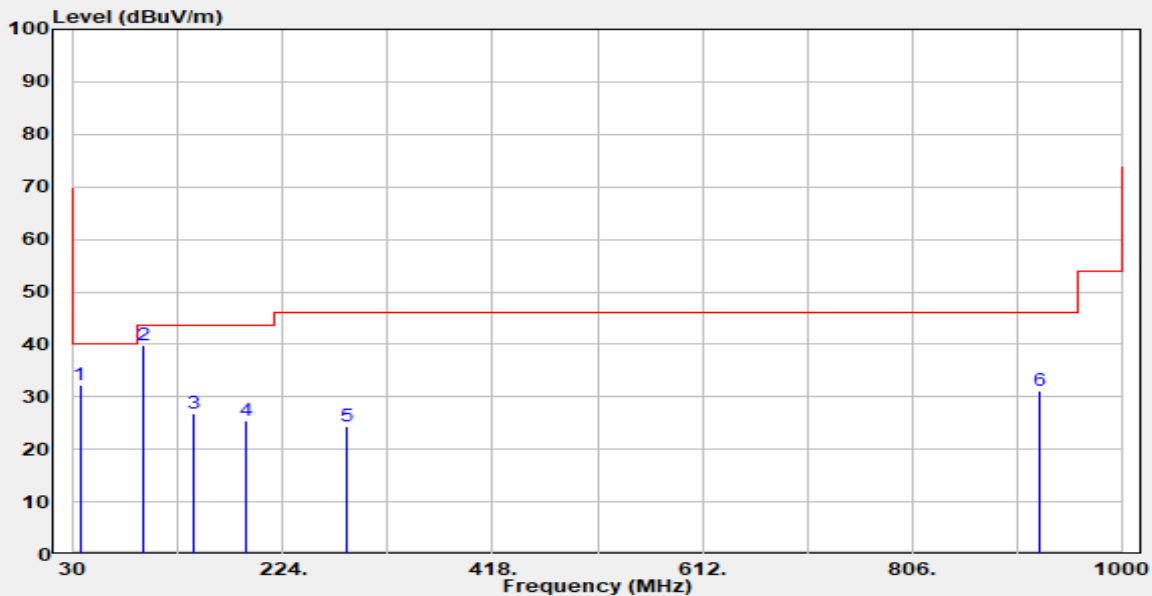
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AN54LQ-P

Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



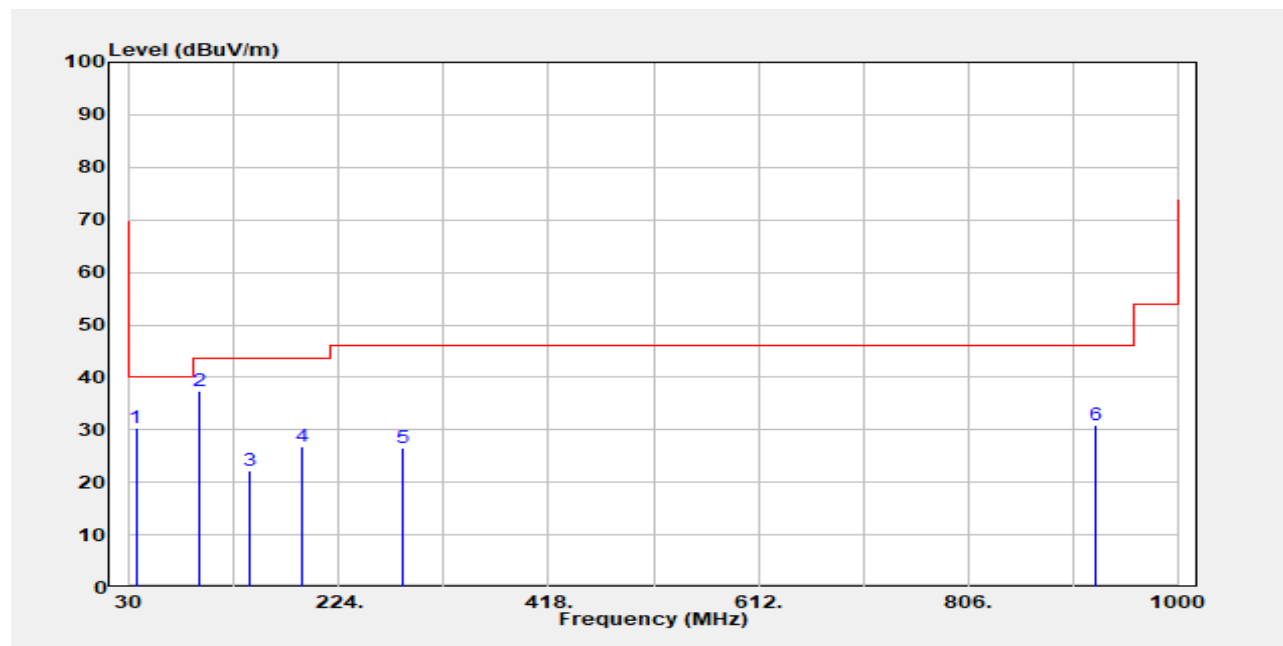
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	QP	45.09	-12.79	32.30	40.00	-7.70
94.43	QP	57.60	-17.67	39.93	43.50	-3.57
141.55	Peak	39.45	-12.51	26.94	43.50	-16.56
189.08	Peak	39.98	-14.64	25.34	43.50	-18.16
283.17	Peak	35.68	-11.33	24.35	46.00	-21.65
924.34	Peak	29.88	1.23	31.11	46.00	-14.89

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



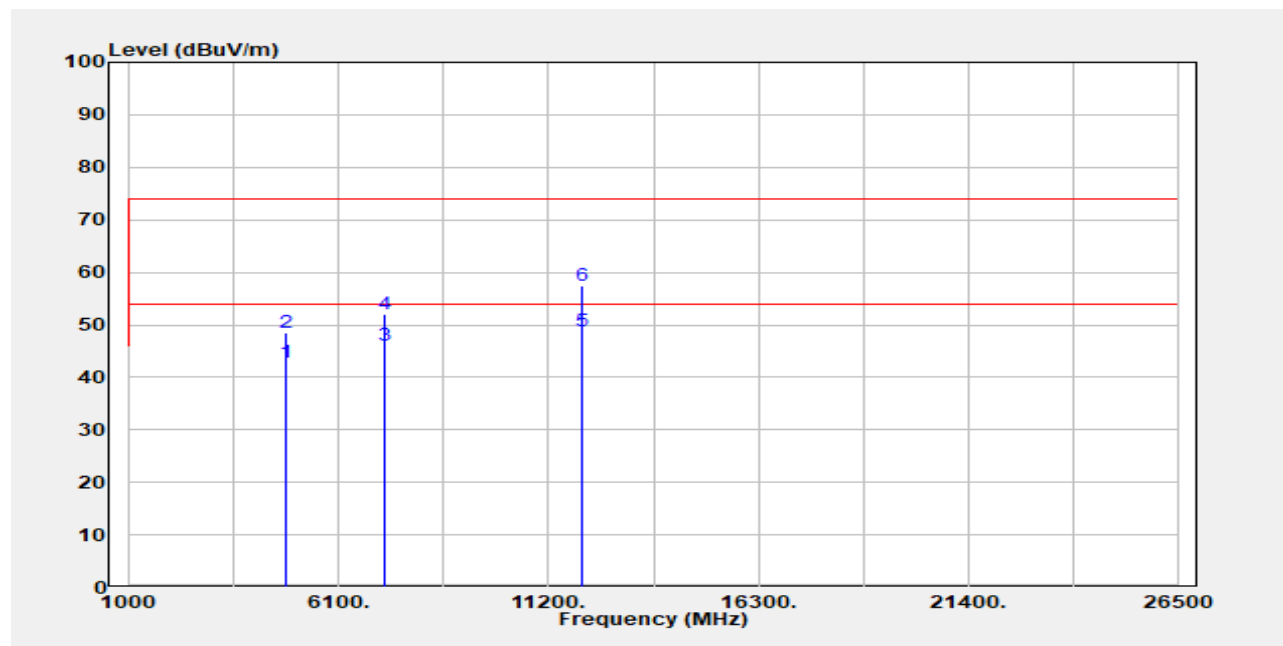
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	Peak	43.27	-12.79	30.48	40.00	-9.52
94.02	Peak	54.96	-17.63	37.33	43.50	-6.17
141.55	Peak	34.75	-12.51	22.24	43.50	-21.26
189.08	Peak	41.46	-14.64	26.82	43.50	-16.68
283.17	Peak	38.02	-11.33	26.69	46.00	-19.31
924.34	Peak	29.79	1.23	31.02	46.00	-14.98

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



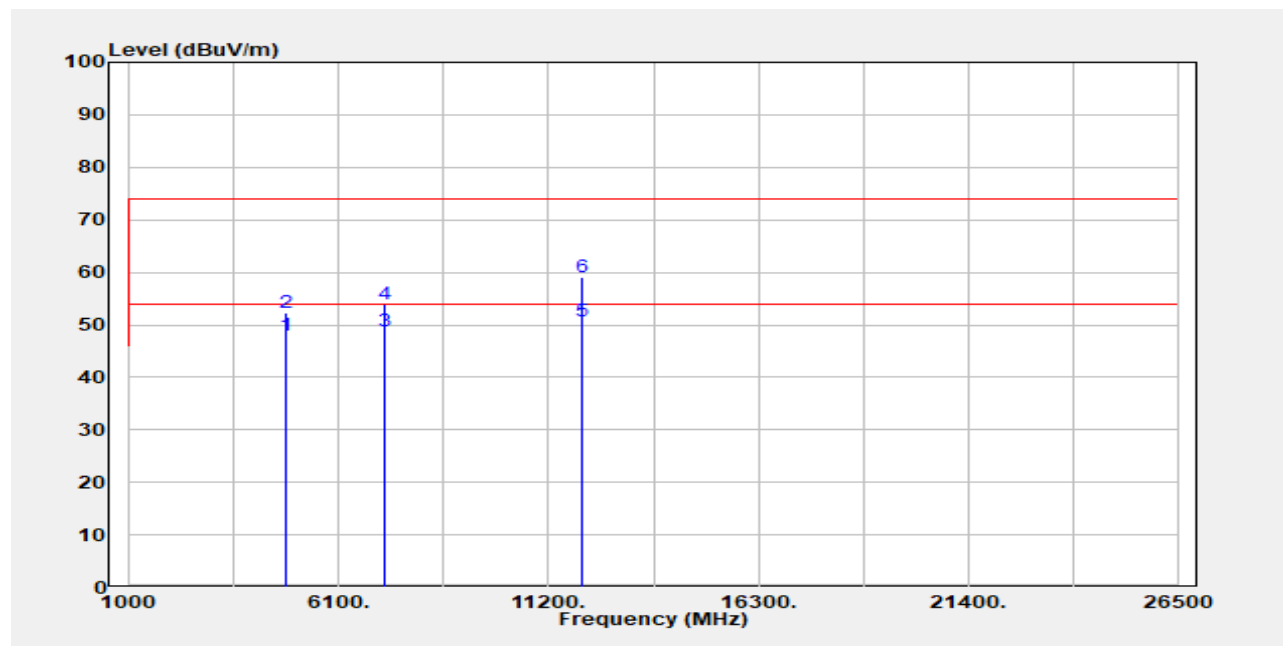
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	42.85	0.10	42.95	54.00	-11.05
4804.00	Peak	48.42	0.10	48.52	74.00	-25.48
7206.00	Average	39.84	6.26	46.10	54.00	-7.90
7206.00	Peak	45.77	6.26	52.03	74.00	-21.97
12010.00	Average	41.53	7.27	48.80	54.00	-5.20
12010.00	Peak	50.26	7.27	57.53	74.00	-16.47

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



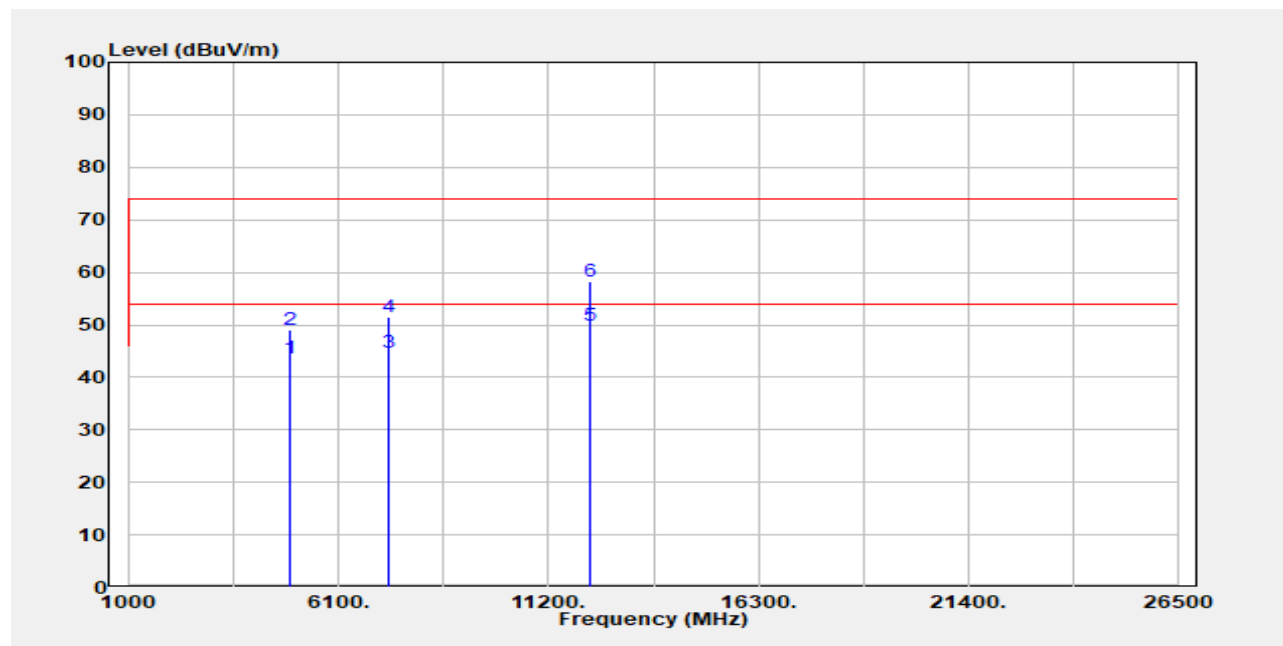
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	47.90	0.10	48.00	54.00	-6.00
4804.00	Peak	52.32	0.10	52.42	74.00	-21.58
7206.00	Average	42.45	6.26	48.71	54.00	-5.29
7206.00	Peak	47.79	6.26	54.05	74.00	-19.95
12010.00	Average	43.36	7.27	50.63	54.00	-3.37
12010.00	Peak	51.87	7.27	59.14	74.00	-14.86

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



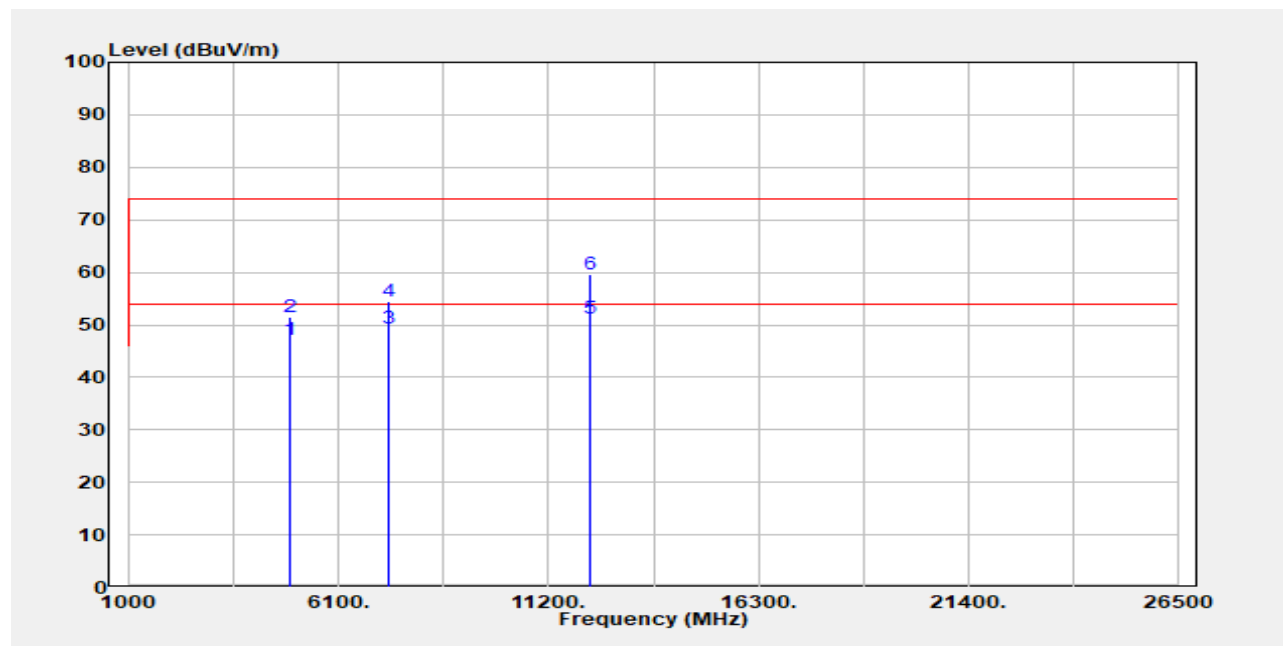
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	43.47	0.29	43.76	54.00	-10.24
4884.00	Peak	48.78	0.29	49.07	74.00	-24.93
7326.00	Average	38.21	6.55	44.76	54.00	-9.24
7326.00	Peak	44.92	6.55	51.47	74.00	-22.53
12210.00	Average	42.40	7.36	49.76	54.00	-4.24
12210.00	Peak	51.01	7.36	58.37	74.00	-15.63

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



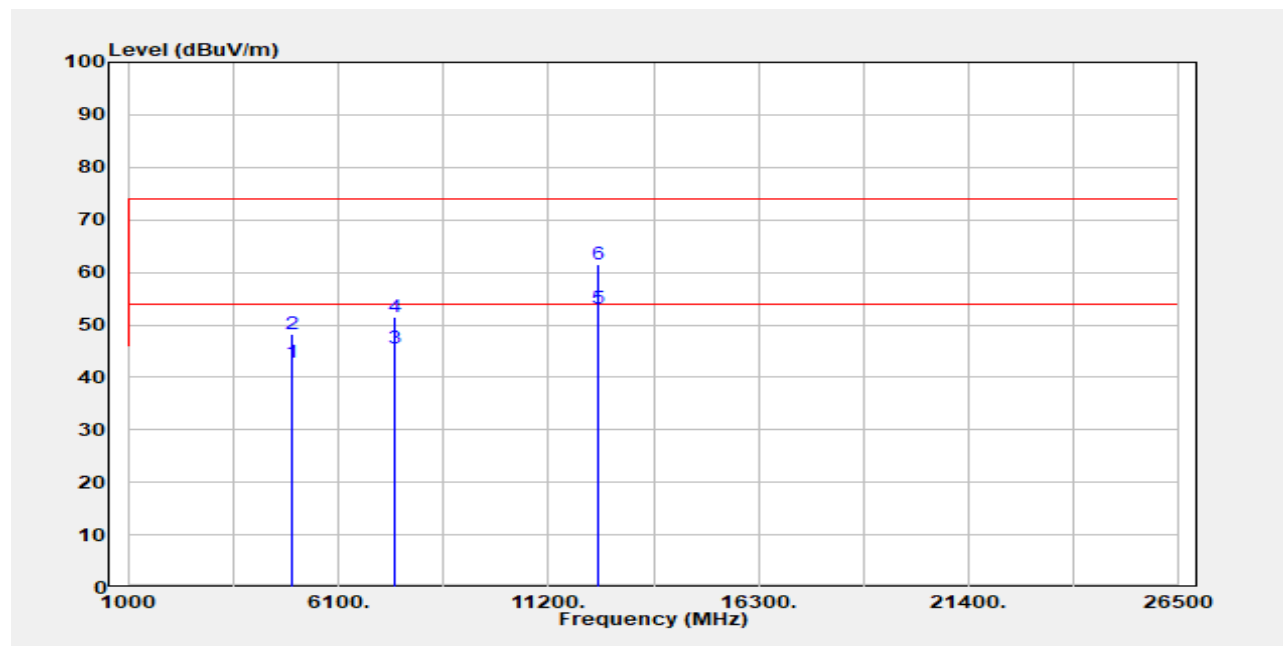
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	46.82	0.29	47.11	54.00	-6.89
4884.00	Peak	51.13	0.29	51.42	74.00	-22.58
7326.00	Average	42.78	6.55	49.33	54.00	-4.67
7326.00	Peak	47.86	6.55	54.41	74.00	-19.59
12210.00	Average	43.82	7.36	51.18	54.00	-2.82
12210.00	Peak	52.28	7.36	59.64	74.00	-14.36

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



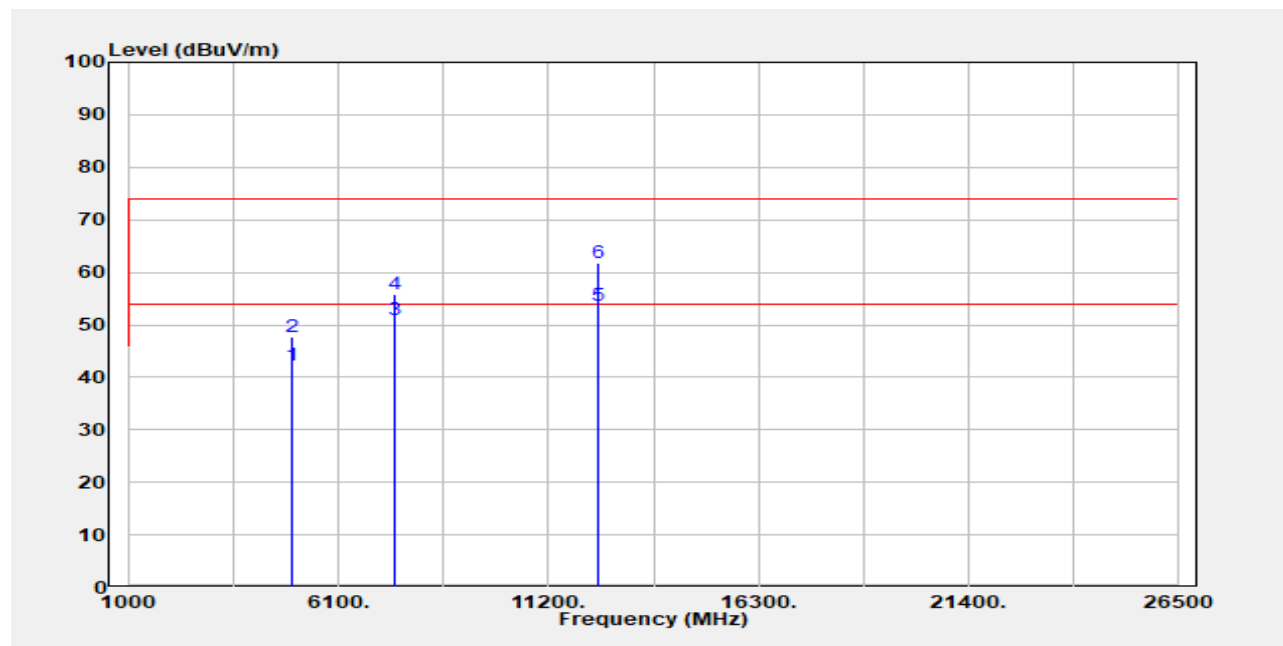
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	42.21	0.49	42.70	54.00	-11.30
4960.00	Peak	47.74	0.49	48.23	74.00	-25.77
7440.00	Average	39.25	6.25	45.50	54.00	-8.50
7440.00	Peak	45.26	6.25	51.51	74.00	-22.49
12400.00	Average	46.25	6.98	53.23	54.00	-0.77
12400.00	Peak	54.46	6.98	61.44	74.00	-12.56

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



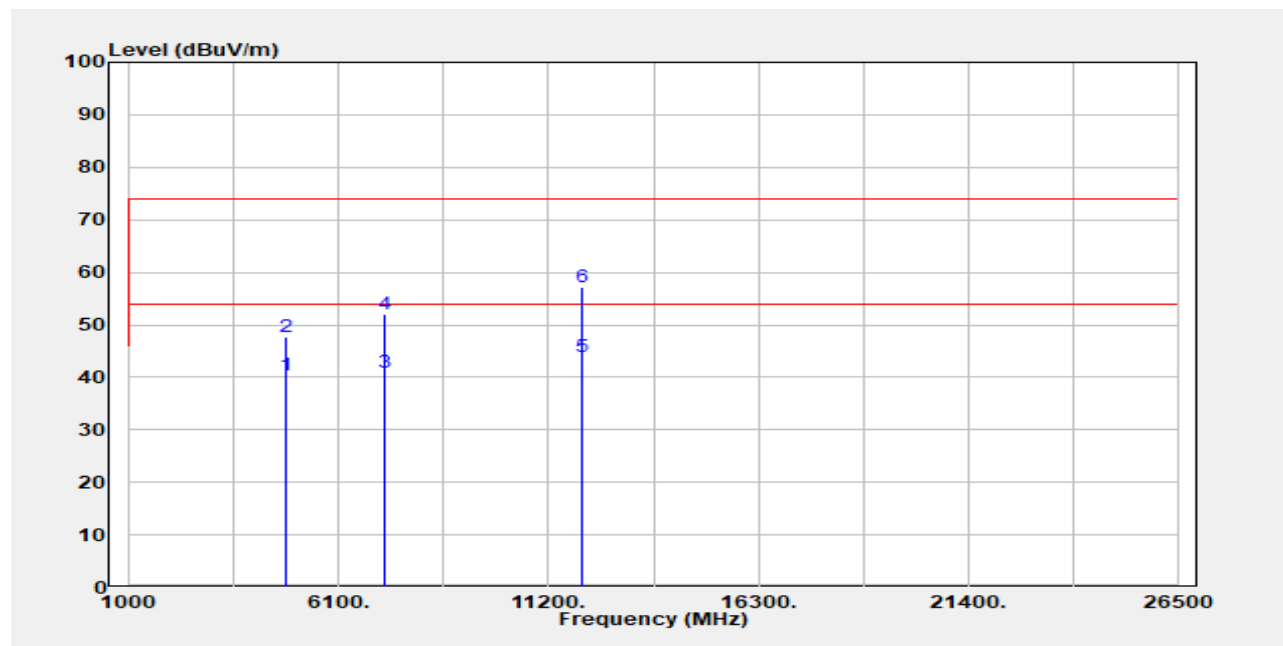
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	41.67	0.49	42.16	54.00	-11.84
4960.00	Peak	47.20	0.49	47.69	74.00	-26.31
7440.00	Average	44.78	6.25	51.03	54.00	-2.97
7440.00	Peak	49.71	6.25	55.96	74.00	-18.04
12400.00	Average	46.60	6.98	53.58	54.00	-0.42
12400.00	Peak	54.76	6.98	61.74	74.00	-12.26

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



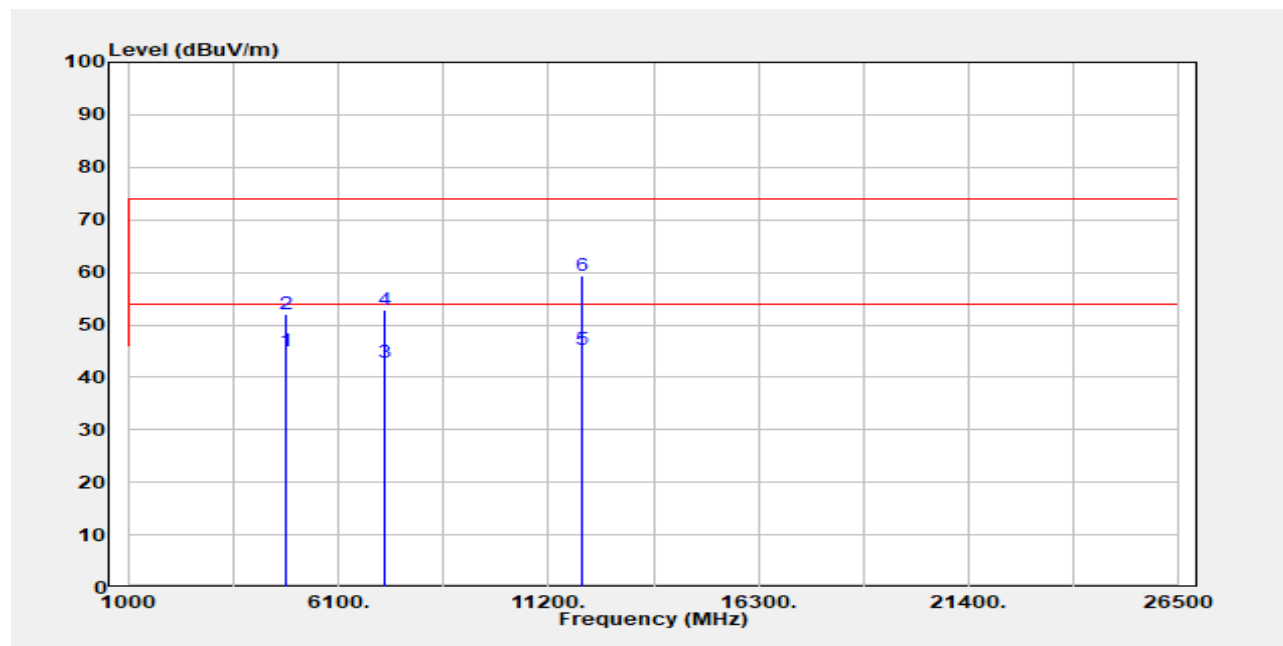
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	40.17	0.10	40.27	54.00	-13.73
4804.00	Peak	47.52	0.10	47.62	74.00	-26.38
7206.00	Average	34.68	6.26	40.94	54.00	-13.06
7206.00	Peak	45.66	6.26	51.92	74.00	-22.08
12010.00	Average	36.56	7.27	43.83	54.00	-10.17
12010.00	Peak	50.04	7.27	57.31	74.00	-16.69

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



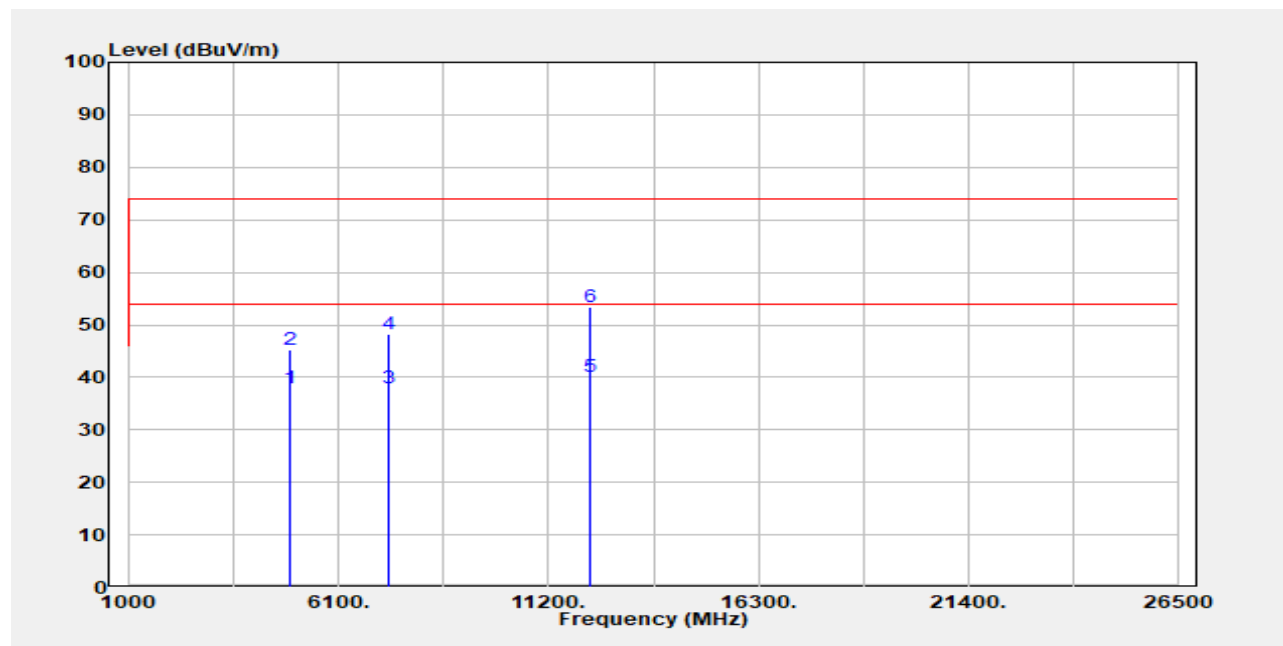
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	44.86	0.10	44.96	54.00	-9.04
4804.00	Peak	51.90	0.10	52.00	74.00	-22.00
7206.00	Average	36.46	6.26	42.72	54.00	-11.28
7206.00	Peak	46.71	6.26	52.97	74.00	-21.03
12010.00	Average	37.93	7.27	45.20	54.00	-8.80
12010.00	Peak	51.96	7.27	59.23	74.00	-14.77

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



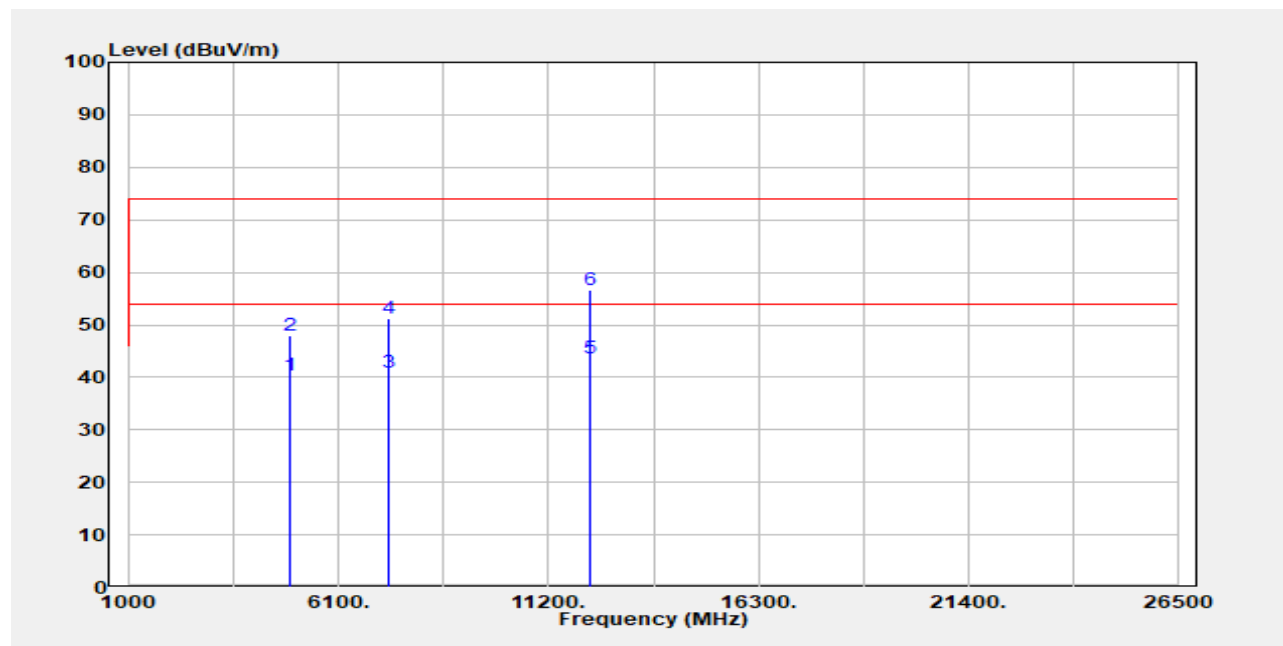
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4884.00	Average	37.59	0.29	37.88	54.00	-16.12
4884.00	Peak	44.94	0.29	45.23	74.00	-28.77
7326.00	Average	31.41	6.55	37.96	54.00	-16.04
7326.00	Peak	41.81	6.55	48.36	74.00	-25.64
12210.00	Average	32.88	7.36	40.24	54.00	-13.76
12210.00	Peak	46.03	7.36	53.39	74.00	-20.61

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



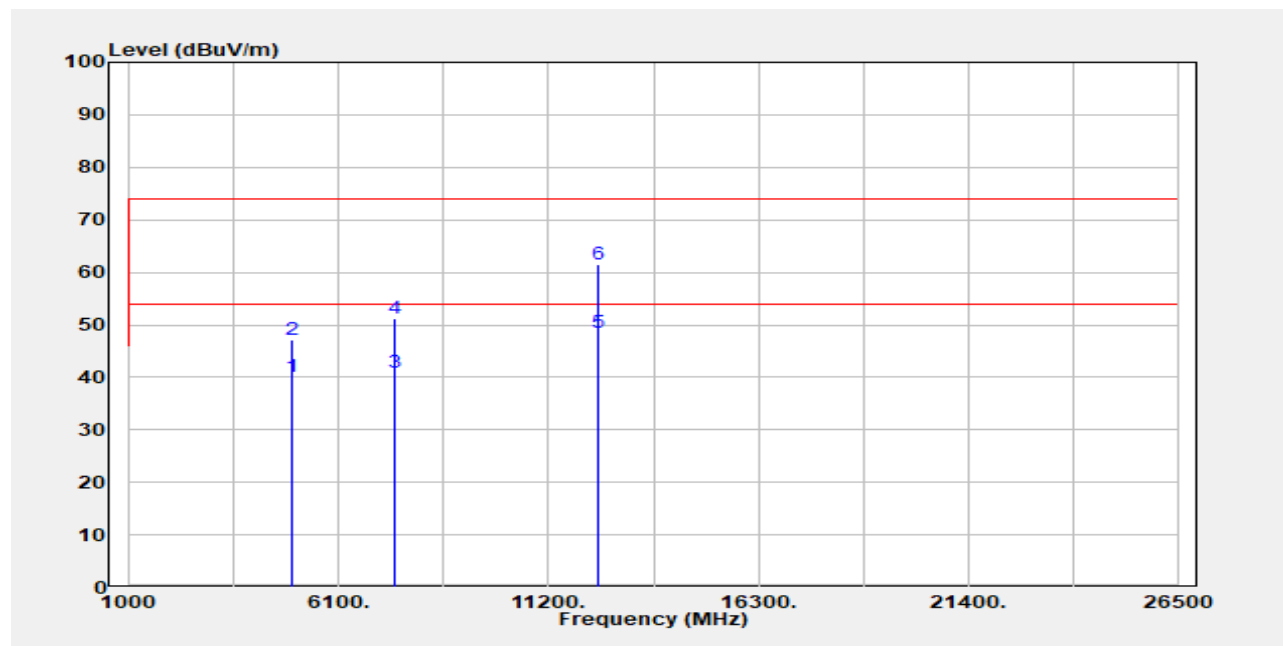
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	40.05	0.29	40.34	54.00	-13.66
4884.00	Peak	47.66	0.29	47.95	74.00	-26.05
7326.00	Average	34.35	6.55	40.90	54.00	-13.10
7326.00	Peak	44.72	6.55	51.27	74.00	-22.73
12210.00	Average	36.14	7.36	43.50	54.00	-10.50
12210.00	Peak	49.18	7.36	56.54	74.00	-17.46

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



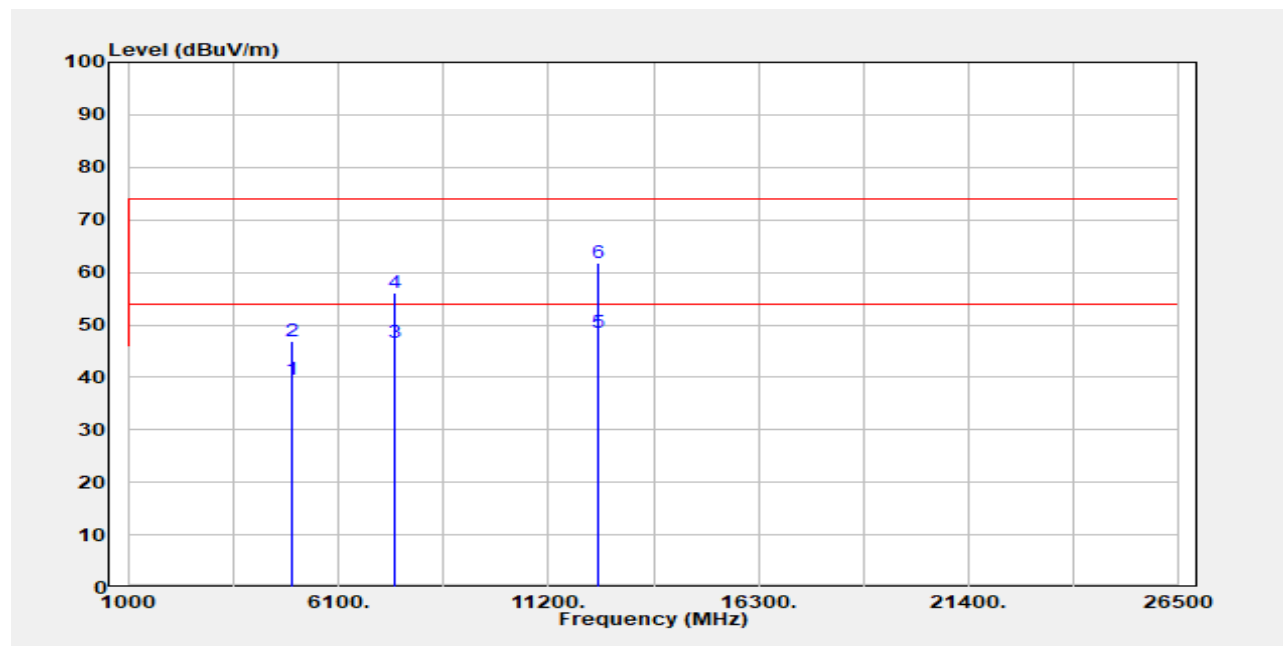
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	39.60	0.49	40.09	54.00	-13.91
4960.00	Peak	46.55	0.49	47.04	74.00	-26.96
7440.00	Average	34.68	6.25	40.93	54.00	-13.07
7440.00	Peak	44.94	6.25	51.19	74.00	-22.81
12400.00	Average	41.41	6.98	48.39	54.00	-5.61
12400.00	Peak	54.55	6.98	61.53	74.00	-12.47

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-06-27
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	39.10	0.49	39.59	54.00	-14.41
4960.00	Peak	46.52	0.49	47.01	74.00	-26.99
7440.00	Average	40.39	6.25	46.64	54.00	-7.36
7440.00	Peak	49.82	6.25	56.07	74.00	-17.93
12400.00	Average	41.65	6.98	48.63	54.00	-5.37
12400.00	Peak	54.84	6.98	61.82	74.00	-12.18

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AN54LQ-U

Antenna: RFA-02-5-F17H170100B

Report Number :TERF2502000650E2

Operation Mode :BLE 2M

Test Frequency :2442 MHz

Test Mode :Tx

EUT Pol :E2 Plane

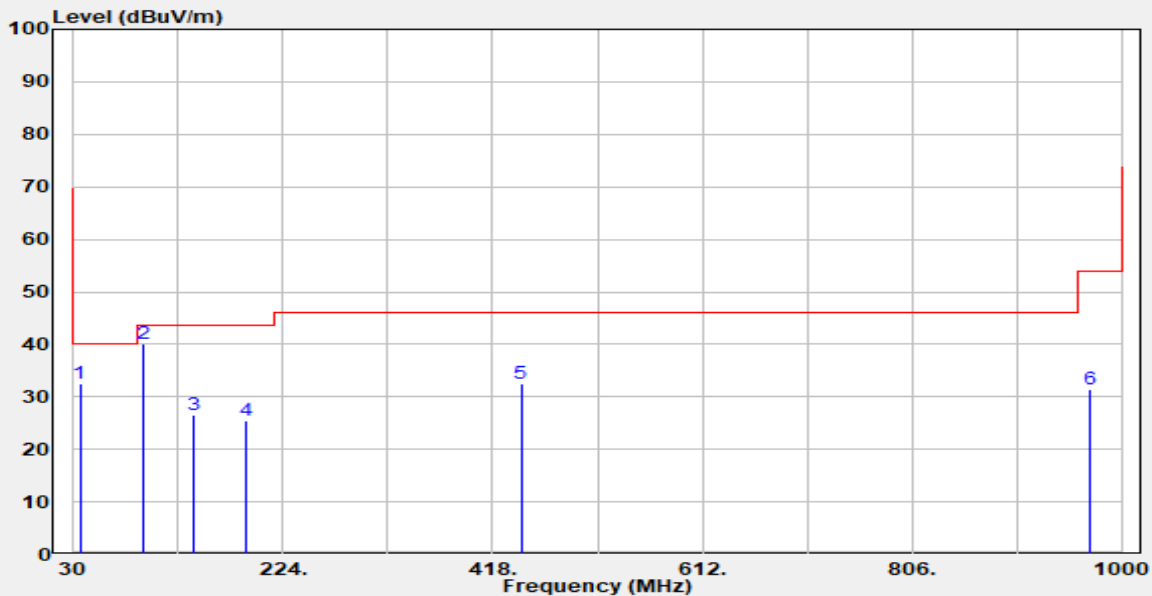
Test Site :SAC C

Test Date :2025-07-01

Temp./Humi. :22.1°C/53%

Antenna Pol. :Vertical

Engineer :Alex Li



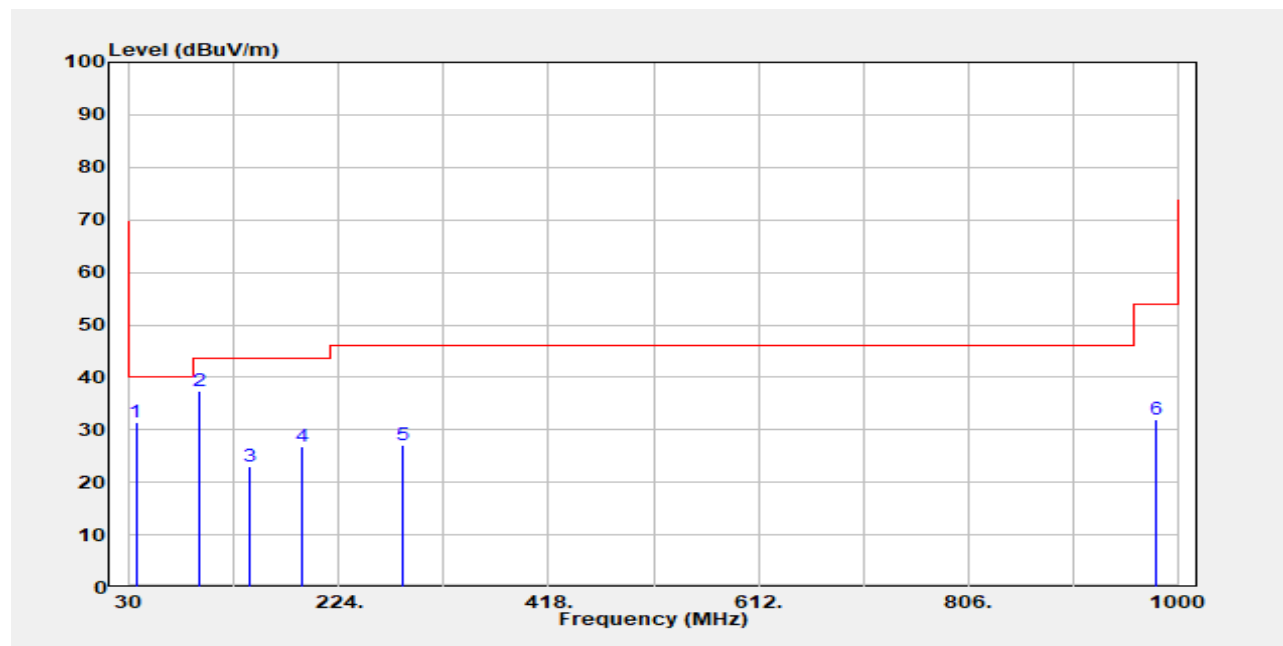
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	QP	45.39	-12.79	32.60	40.00	-7.40
94.44	QP	57.80	-17.67	40.13	43.50	-3.37
141.55	Peak	39.14	-12.51	26.63	43.50	-16.87
189.08	Peak	40.07	-14.64	25.43	43.50	-18.07
444.19	Peak	39.57	-6.96	32.61	46.00	-13.39
970.90	Peak	29.81	1.71	31.52	54.00	-22.48

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



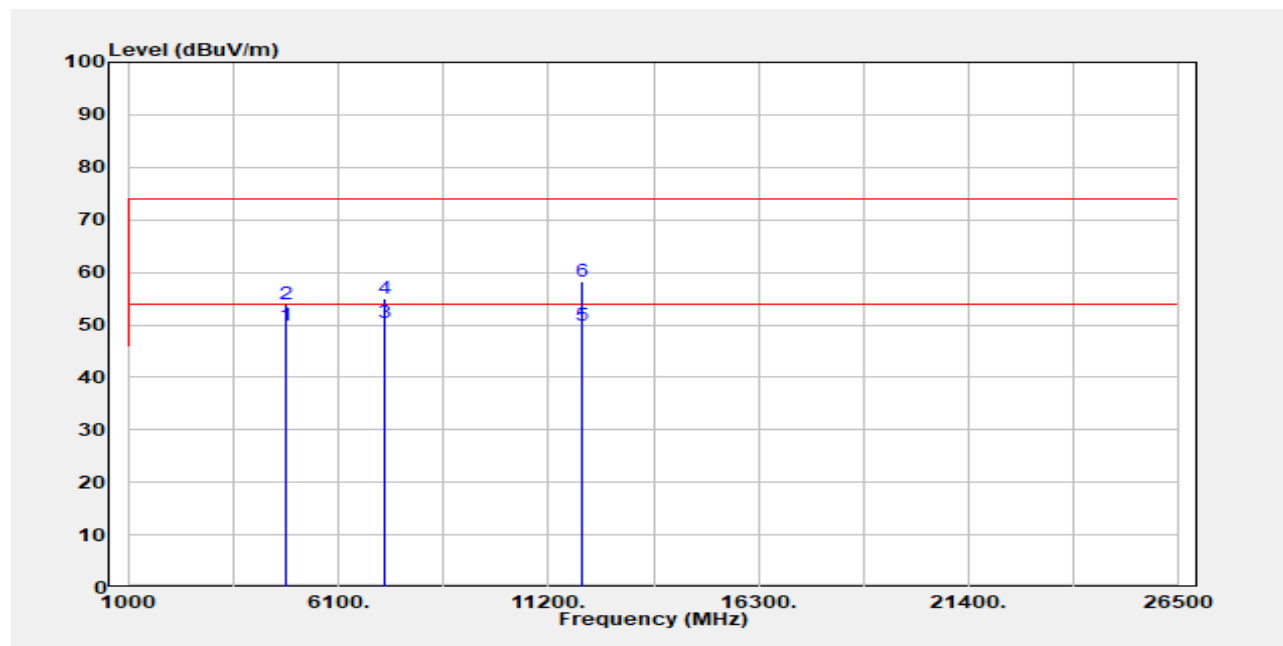
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
35.82	Peak	44.14	-12.79	31.35	40.00	-8.65
94.02	Peak	54.94	-17.63	37.31	43.50	-6.19
141.55	Peak	35.53	-12.51	23.02	43.50	-20.48
189.08	Peak	41.34	-14.64	26.70	43.50	-16.80
283.17	Peak	38.51	-11.33	27.18	46.00	-18.82
979.63	Peak	30.29	1.62	31.91	54.00	-22.09

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Report Number :TERF2502000650E2
 Operation Mode :BLE 1M
 Test Frequency :2402 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-07-01
 Temp./Humi. :22.1°C/53%
 Antenna Pol. :Vertical
 Engineer :Alex Li



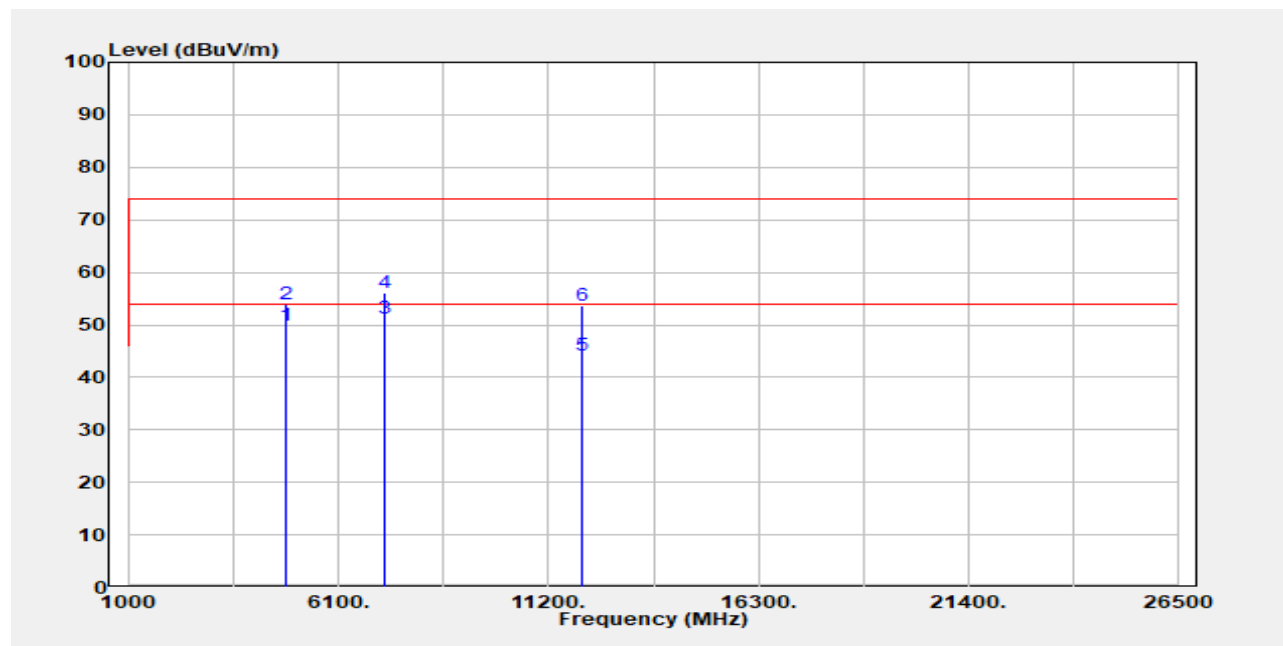
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	49.73	0.10	49.83	54.00	-4.17
4804.00	Peak	53.85	0.10	53.95	74.00	-20.05
7206.00	Average	44.03	6.26	50.29	54.00	-3.71
7206.00	Peak	48.86	6.26	55.12	74.00	-18.88
12010.00	Average	42.57	7.27	49.84	54.00	-4.16
12010.00	Peak	50.99	7.27	58.26	74.00	-15.74

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



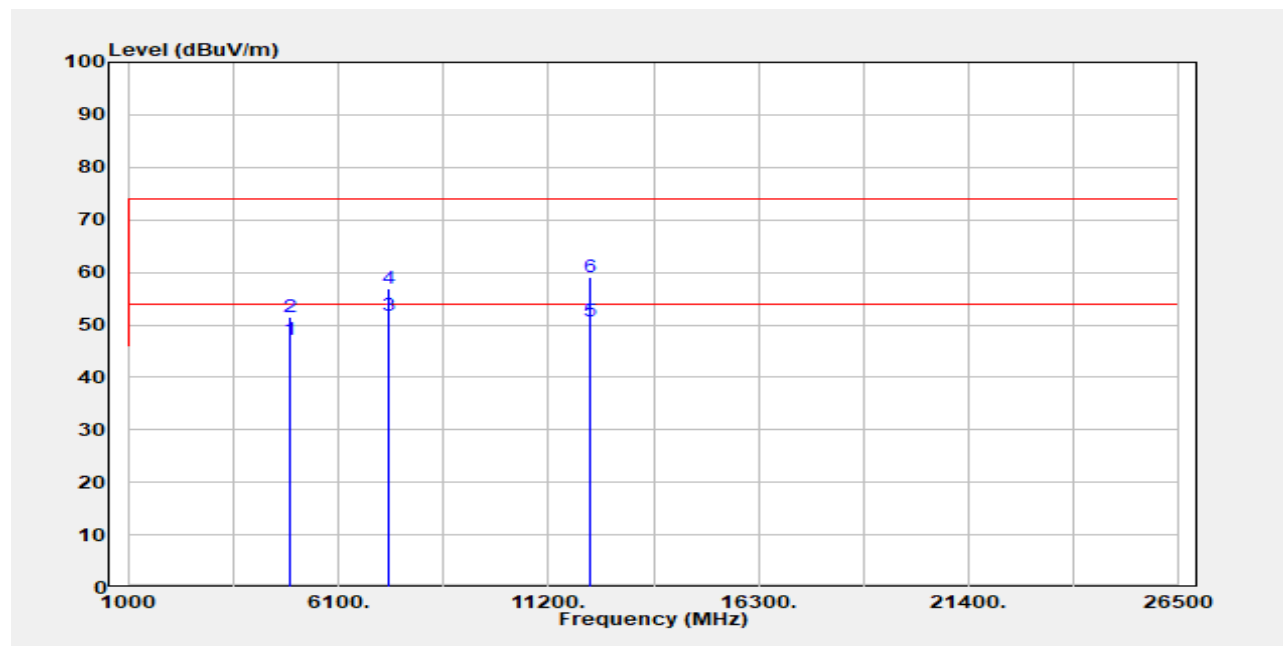
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	49.69	0.10	49.79	54.00	-4.21
4804.00	Peak	53.69	0.10	53.79	74.00	-20.21
7206.00	Average	44.88	6.26	51.14	54.00	-2.86
7206.00	Peak	49.82	6.26	56.08	74.00	-17.92
12010.00	Average	36.87	7.27	44.14	54.00	-9.86
12010.00	Peak	46.39	7.27	53.66	74.00	-20.34

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



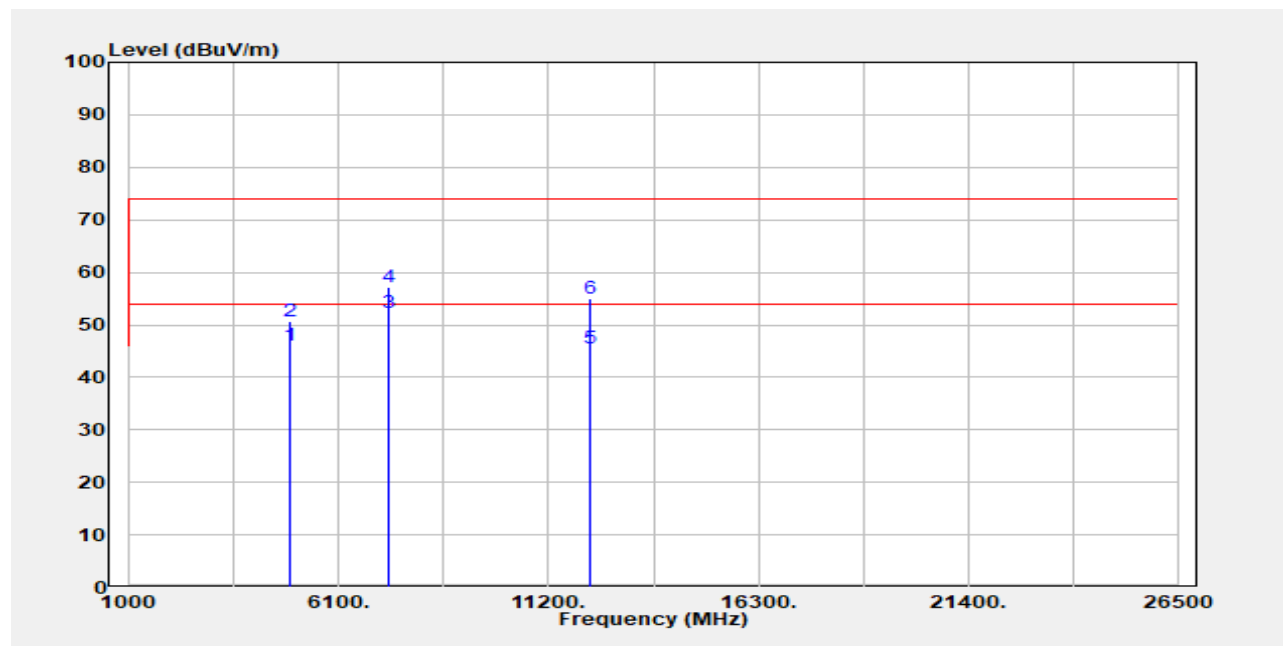
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	46.99	0.29	47.28	54.00	-6.72
4884.00	Peak	51.21	0.29	51.50	74.00	-22.50
7326.00	Average	45.23	6.55	51.78	54.00	-2.22
7326.00	Peak	50.29	6.55	56.84	74.00	-17.16
12210.00	Average	43.31	7.36	50.67	54.00	-3.33
12210.00	Peak	51.85	7.36	59.21	74.00	-14.79

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



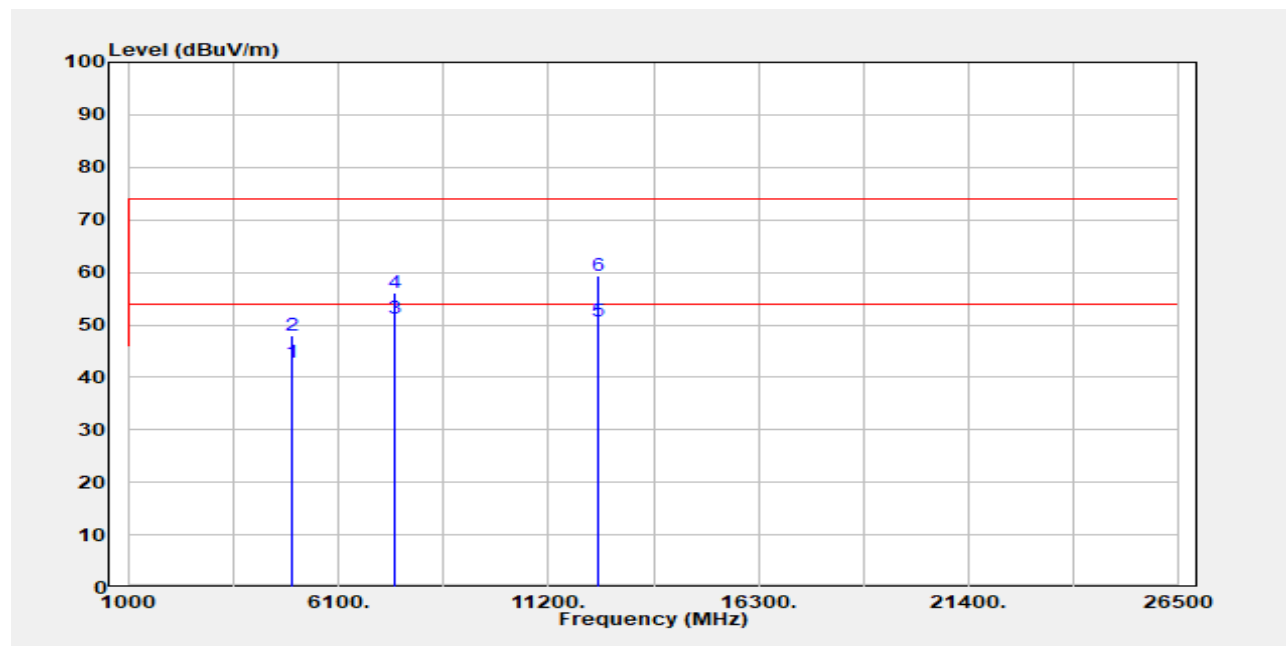
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	45.82	0.29	46.11	54.00	-7.89
4884.00	Peak	50.36	0.29	50.65	74.00	-23.35
7326.00	Average	45.87	6.55	52.42	54.00	-1.58
7326.00	Peak	50.56	6.55	57.11	74.00	-16.89
12210.00	Average	38.11	7.36	45.47	54.00	-8.53
12210.00	Peak	47.64	7.36	55.00	74.00	-19.00

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



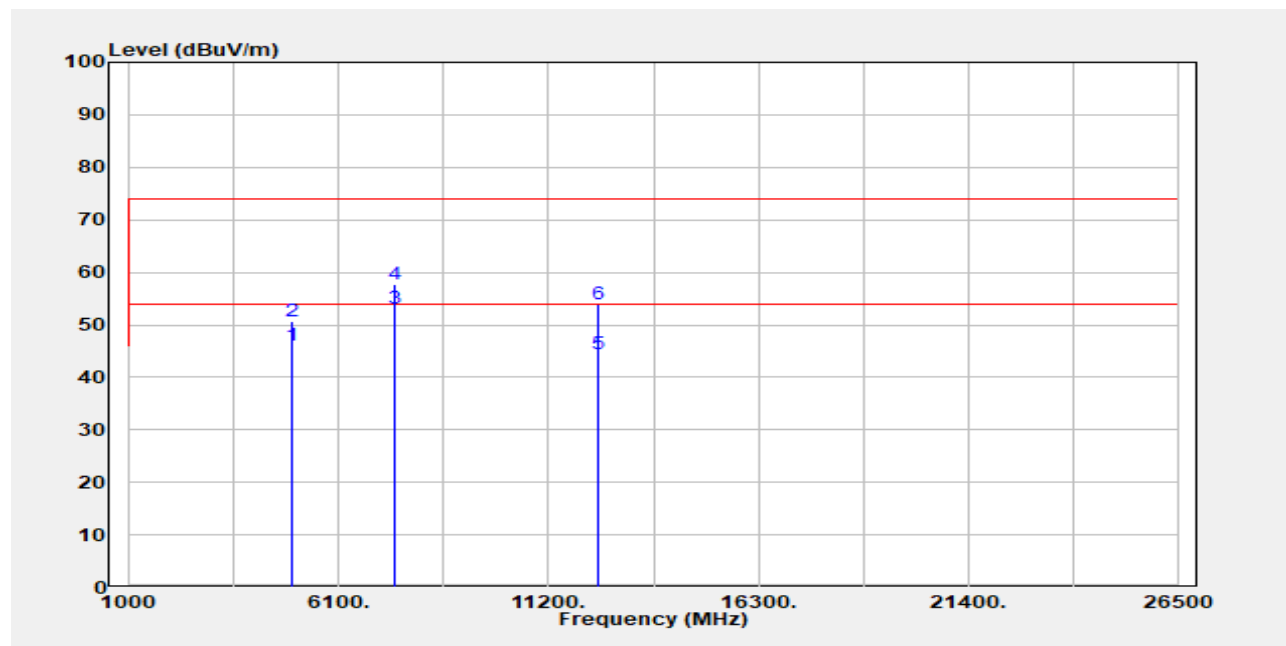
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	42.28	0.49	42.77	54.00	-11.23
4960.00	Peak	47.39	0.49	47.88	74.00	-26.12
7440.00	Average	44.90	6.25	51.15	54.00	-2.85
7440.00	Peak	49.83	6.25	56.08	74.00	-17.92
12400.00	Average	43.80	6.98	50.78	54.00	-3.22
12400.00	Peak	52.35	6.98	59.33	74.00	-14.67

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Report Number :TERF2502000650E2
Operation Mode :BLE 1M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



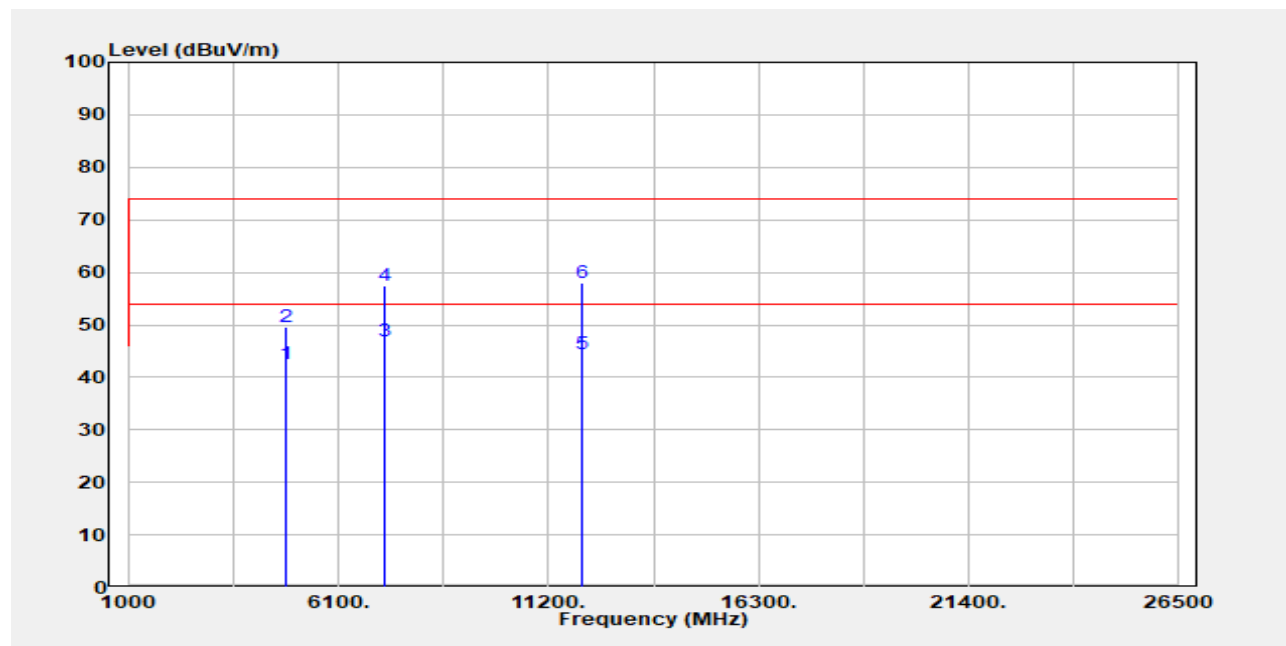
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	45.53	0.49	46.02	54.00	-7.98
4960.00	Peak	50.19	0.49	50.68	74.00	-23.32
7440.00	Average	46.89	6.25	53.14	54.00	-0.86
7440.00	Peak	51.60	6.25	57.85	74.00	-16.15
12400.00	Average	37.48	6.98	44.46	54.00	-9.54
12400.00	Peak	47.08	6.98	54.06	74.00	-19.94

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



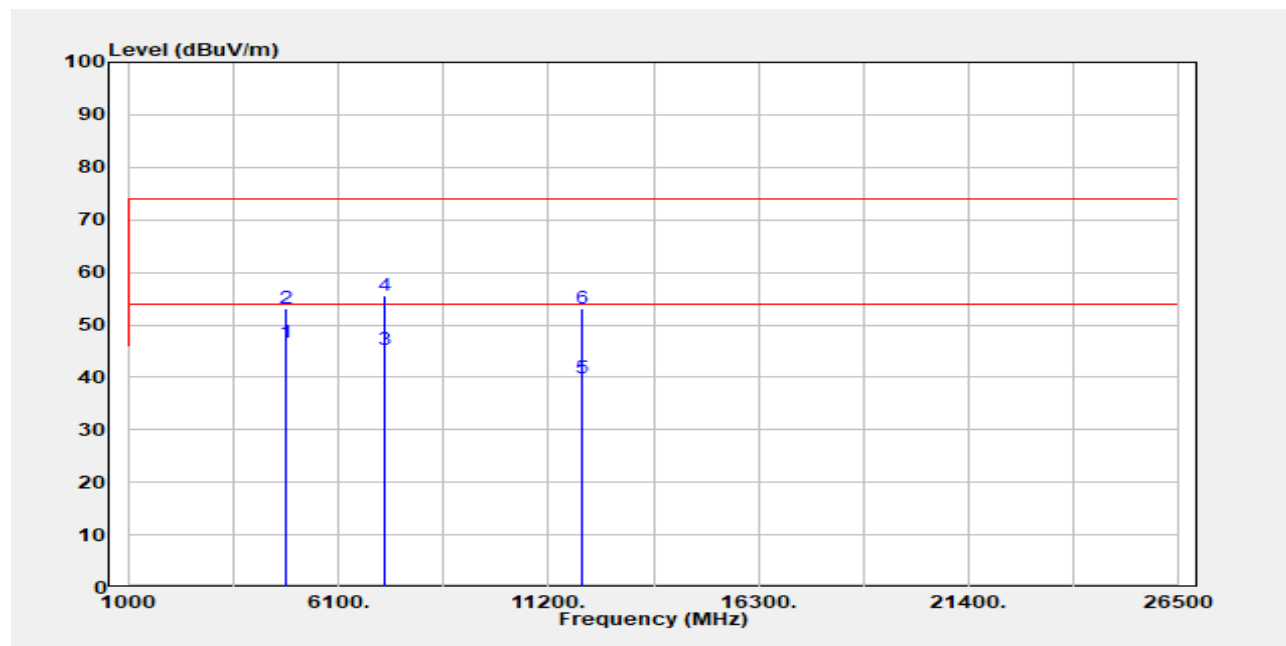
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	42.49	0.10	42.59	54.00	-11.41
4804.00	Peak	49.46	0.10	49.56	74.00	-24.44
7206.00	Average	40.66	6.26	46.92	54.00	-7.08
7206.00	Peak	51.12	6.26	57.38	74.00	-16.62
12010.00	Average	37.14	7.27	44.41	54.00	-9.59
12010.00	Peak	50.77	7.27	58.04	74.00	-15.96

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2402 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



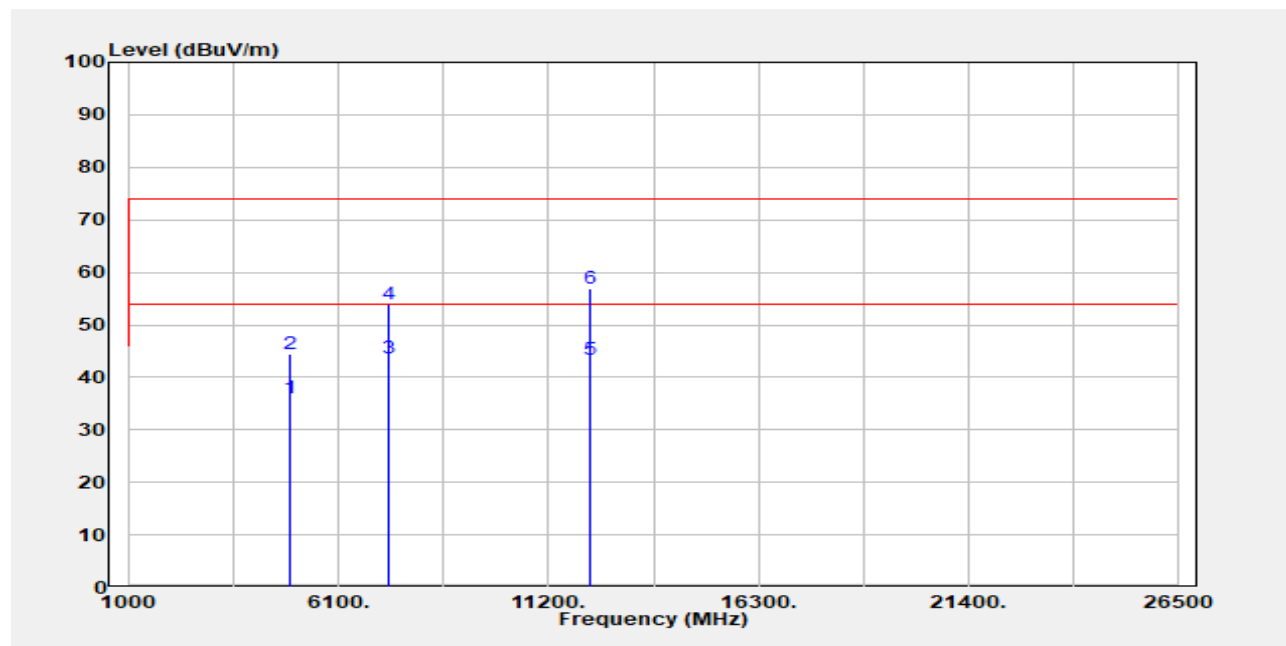
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	46.55	0.10	46.65	54.00	-7.35
4804.00	Peak	52.95	0.10	53.05	74.00	-20.95
7206.00	Average	39.03	6.26	45.29	54.00	-8.71
7206.00	Peak	49.38	6.26	55.64	74.00	-18.36
12010.00	Average	32.62	7.27	39.89	54.00	-14.11
12010.00	Peak	45.84	7.27	53.11	74.00	-20.89

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



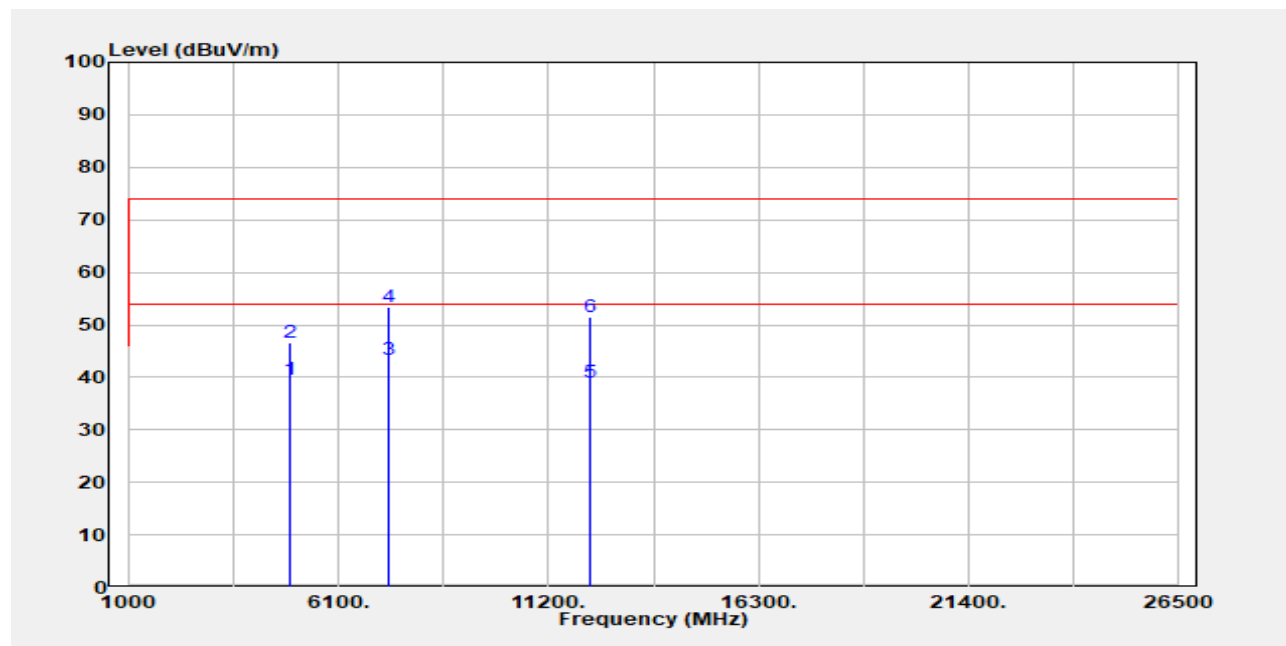
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	35.86	0.29	36.15	54.00	-17.85
4884.00	Peak	44.07	0.29	44.36	74.00	-29.64
7326.00	Average	37.11	6.55	43.66	54.00	-10.34
7326.00	Peak	47.26	6.55	53.81	74.00	-20.19
12210.00	Average	35.88	7.36	43.24	54.00	-10.76
12210.00	Peak	49.57	7.36	56.93	74.00	-17.07

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2442 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



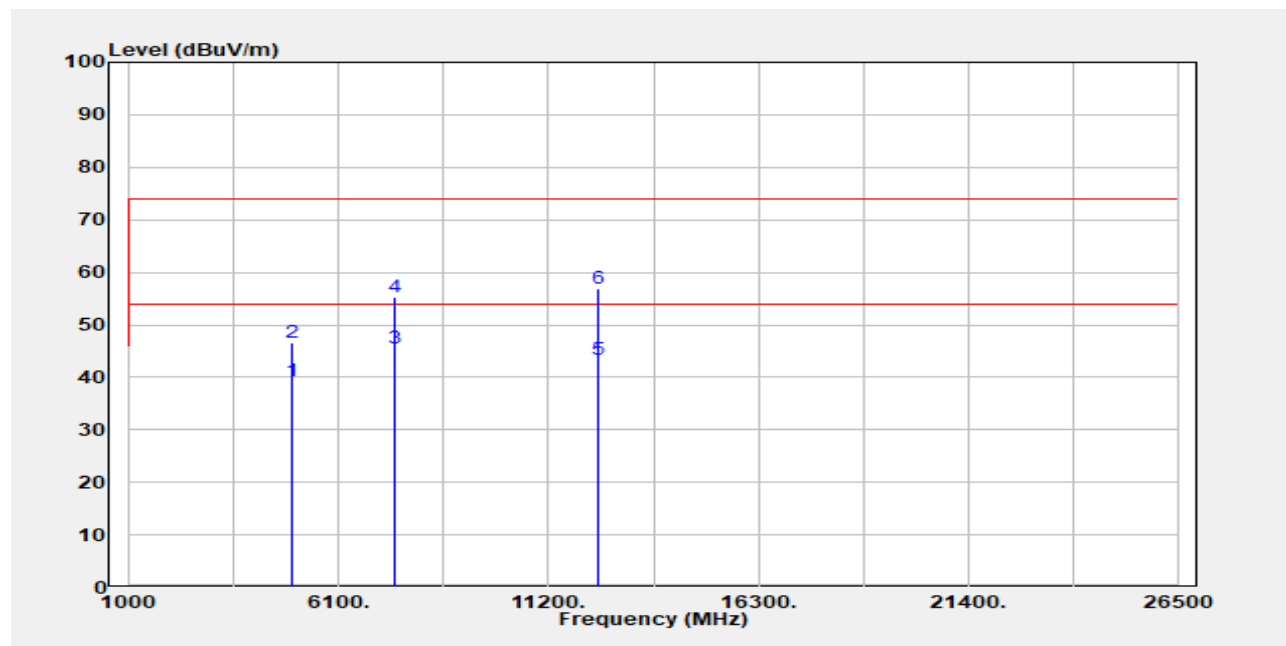
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	39.23	0.29	39.52	54.00	-14.48
4884.00	Peak	46.30	0.29	46.59	74.00	-27.41
7326.00	Average	36.77	6.55	43.32	54.00	-10.68
7326.00	Peak	46.84	6.55	53.39	74.00	-20.61
12210.00	Average	31.53	7.36	38.89	54.00	-15.11
12210.00	Peak	44.25	7.36	51.61	74.00	-22.39

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Vertical
Engineer :Alex Li



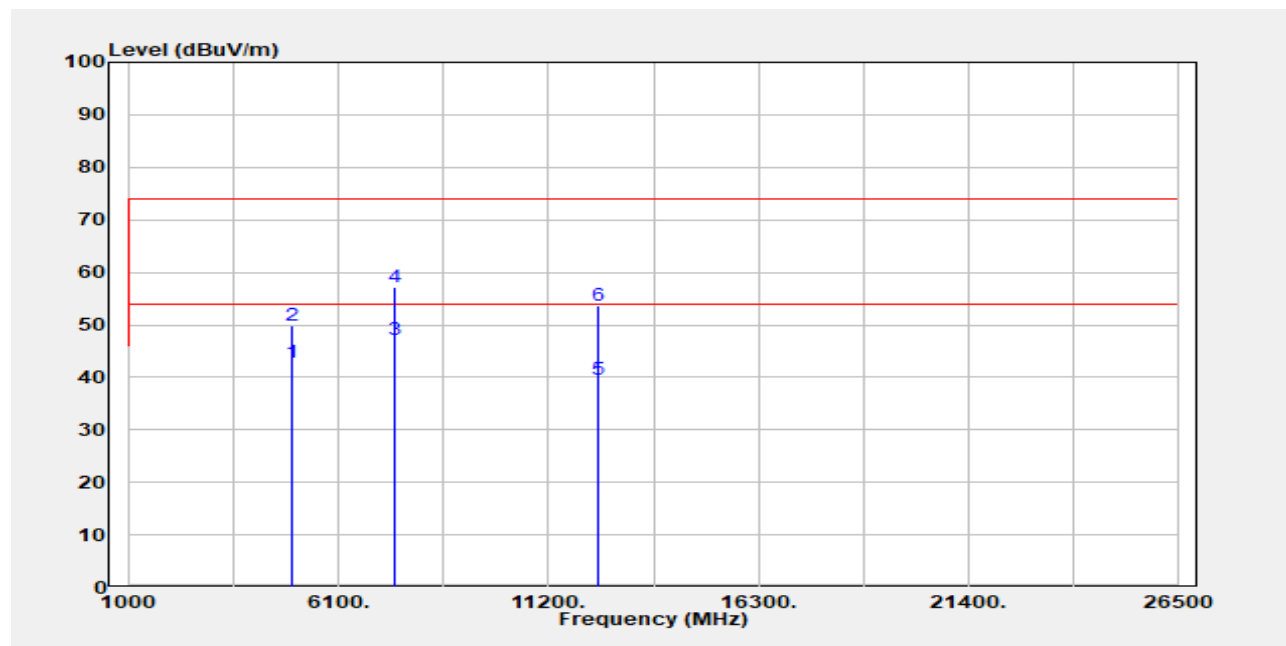
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	38.76	0.49	39.25	54.00	-14.75
4960.00	Peak	46.07	0.49	46.56	74.00	-27.44
7440.00	Average	39.20	6.25	45.45	54.00	-8.55
7440.00	Peak	49.13	6.25	55.38	74.00	-18.62
12400.00	Average	36.45	6.98	43.43	54.00	-10.57
12400.00	Peak	49.97	6.98	56.95	74.00	-17.05

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Report Number :TERF2502000650E2
Operation Mode :BLE 2M
Test Frequency :2480 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-07-01
Temp./Humi. :22.1°C/53%
Antenna Pol. :Horizontal
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	42.23	0.49	42.72	54.00	-11.28
4960.00	Peak	49.31	0.49	49.80	74.00	-24.20
7440.00	Average	40.99	6.25	47.24	54.00	-6.76
7440.00	Peak	50.92	6.25	57.17	74.00	-16.83
12400.00	Average	32.72	6.98	39.70	54.00	-14.30
12400.00	Peak	46.65	6.98	53.63	74.00	-20.37

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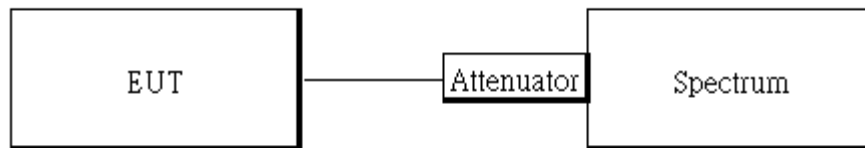
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e) & RSS-247 section 5.2 b

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

12.2 Test Setup



12.3 Measurement Procedure:

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

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12.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-4.64	8	PASS
2442	-5.93	8	PASS
2480	-5.30	8	PASS

***Note:**

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

BLE 2M mode

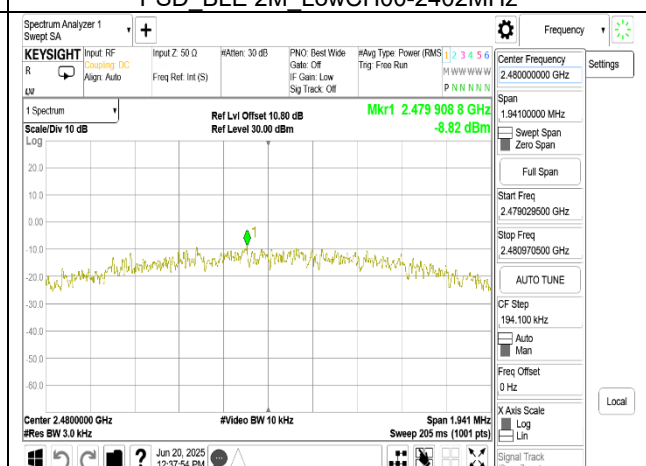
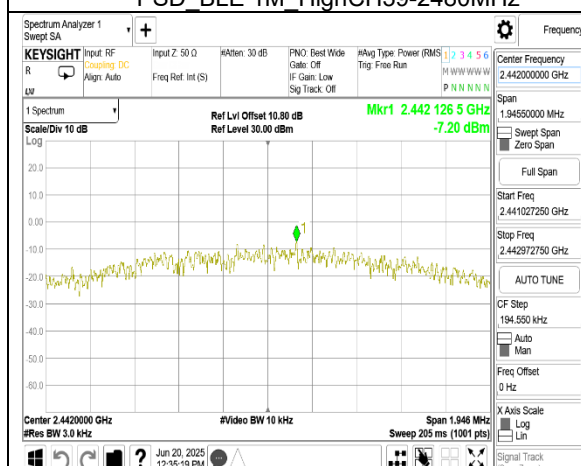
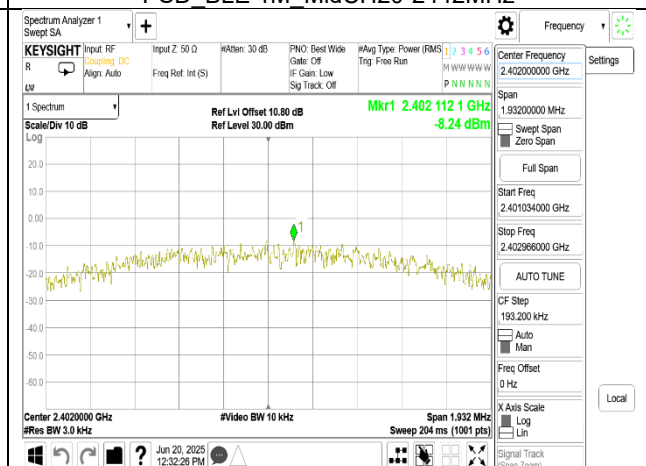
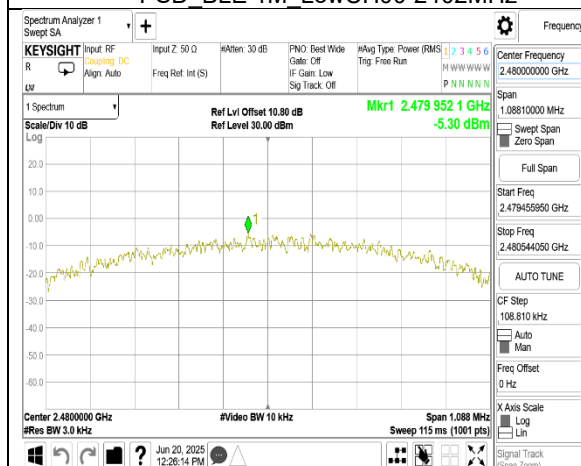
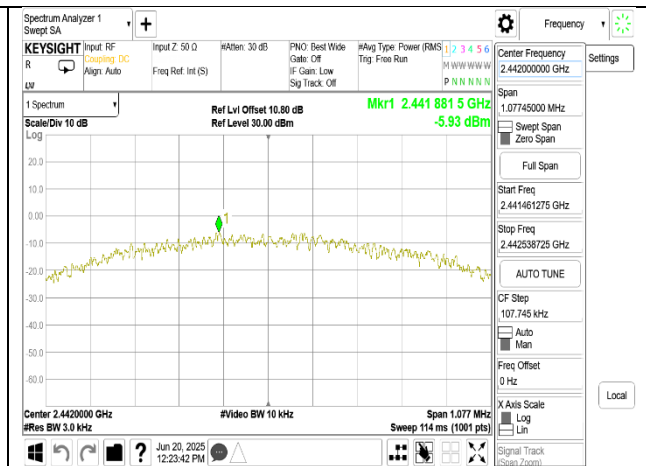
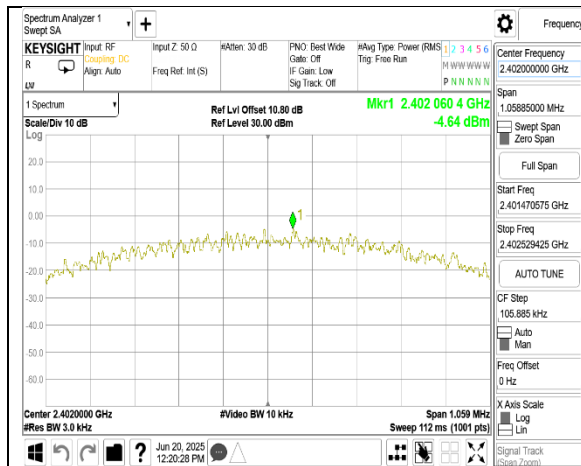
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-8.24	8	PASS
2442	-7.20	8	PASS
2480	-8.82	8	PASS

***Note:**

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

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

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Member of SGS Group

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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