

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless module installed in Notebook

Applicant: Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu
300, Taiwan

Manufacturer: Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu
300, Taiwan

Brand Name: REALTEK

Model No. RTL8852CE

FCC Host Model: GL6J, GL6*** ("*" means 20 alphanumeric, maybe 0-9, A-Z, -,
_, + or blank)

Report Number: TERF2603000797E2

FCC ID TX2-RTL8852CE

Date of EUT Received: N/A, the test results are fully leveraged from test report num-
ber TERF2603000802E2, for more details please refer to sec-
tion 2 in this report.

Date of Test: N/A, the test results are fully leveraged from test report num-
ber TERF2603000802E2, for more details please refer to sec-
tion 2 in this report.

Issue Date: April 9, 2026

Approved By

Arno Hsieh

Arno Hsieh

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 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2603000797E2	00	Original	April 9, 2026	Sandy Yu	

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 of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	Wireless module installed in Notebook
Brand Name	REALTEK
Model No.	RTL8852CE
Host Brand Name:	GIGABYTE
FCC Host Model	GL6J, GL6*** (“*” means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank)
Family FCC Host Model Difference:	For marketing use only
Hardware Version:	N/A
Firmware Version:	6001.16.165.0
EUT Series No.:	S8060433700010
Power Supply	11.31 Vdc from Rechargeable Li-ion Battery 19.5 Vdc from AC/DC Adapter
Test Software (Name/Version)	REALTEK mp_V2.0.41

1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	12.57 dBm
Frequency Range:	2.402GHz ~ 2.480GHz
Dwell Time:	$\leq 0.4s$

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1.3 Antenna Designation

Ant. Type	Brand	Model No.	Freq. (MHz)	Peak Gain(dBi)
PIFA	High-tek	DC330035O10 (0ACMYL25465N)	2400~2483.5	2.75
	INPAQ	DC330035N10 (WA-P-LE-01-146)	2400~2483.5	2.59

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. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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1.4 Operating Frequencies

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

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1.5 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. 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.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among modes below.

ANTENNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power				
Bluetooth	0 to 78	0,39,78	GFSK	DH5
	0 to 78	0,39,78	$\pi/4$ -DQPSK	2DH5
	0 to 78	0,39,78	8-DPSK	3DH5
Time of Occupancy(Dwell time)				
Bluetooth	0 to 78	39	GFSK	DH1,DH3,DH5
			$\pi/4$ -DQPSK	2DH1,2DH3,2DH5
			8-DPSK	3DH1,3DH3,3DH5
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	0 to 78	39	GFSK	DH5
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	0 to 78	0,39,78	GFSK,8-DPSK	DH5,3DH5
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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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.247(b)(1)	Peak Output Power	Compliant	
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2603000802E2.

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart C §15.247
2. ANSI C63.10:2020
3. FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6 / FAC 1	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted C	Joey You	S8060433700010	21.5~21.9°C / 58~60%	2026/03/20 ~ 2026/03/31

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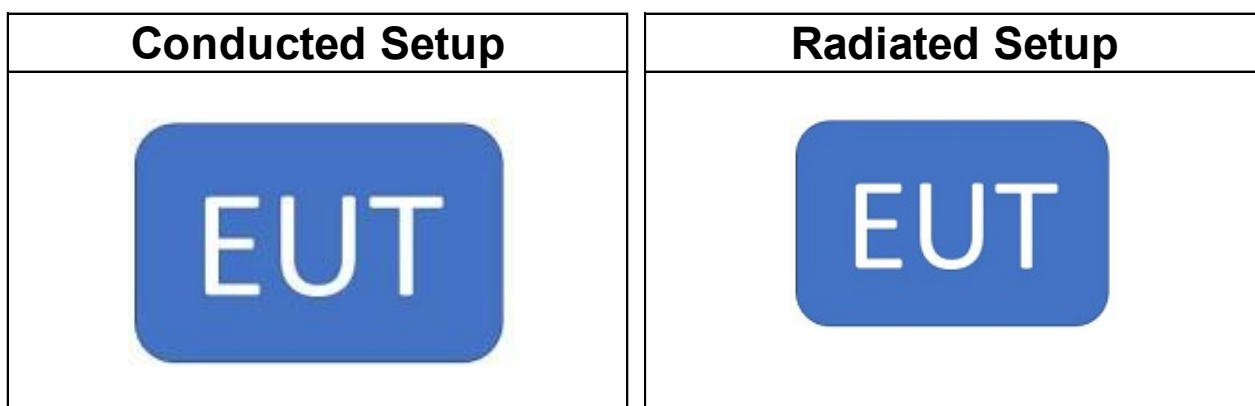
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 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.

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.

3.2 Diagrams



3.3 List

3.3.1 Conducted Setup

N/A.

3.3.2 Radiated Setup

N/A.

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4 TEST INSTRUMENT

4.1 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	Titan Microwave	T0810A0210A18	RF18	11/13/2025	11/12/2026
Attenuator	Woken	WATT-218FS-10	RF19	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF35	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1512003	09/03/2025	09/02/2026
Power Sensor	Anritsu	MA2411B	1339378	09/03/2025	09/02/2026
Power Sensor	Anritsu	MA2411B	1339379	09/03/2025	09/02/2026
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

4.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
2400-2500 Notch Filter	Micro-Tronics	BRM50701-02	RF201	11/13/2025	11/12/2026
3G High pass Filter	R&S	F13 HPF 3GHz	RF160	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/23/2025	12/22/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+150707+MY969/4+16+190825+150702	11/13/2025	11/12/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/29/2025	05/28/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/31/2025	12/30/2026
Pre-Amplifier	EMC Instruments	EMC118A45SEE	981125	11/05/2025	11/04/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/17/2025	10/16/2026
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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5 REGULATORY REQUIREMENTS

5.1 Maximum Output Power

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

5.2 Time Of Occupancy (Dwell Time)

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.3 Unwanted Emissions

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 applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	2400/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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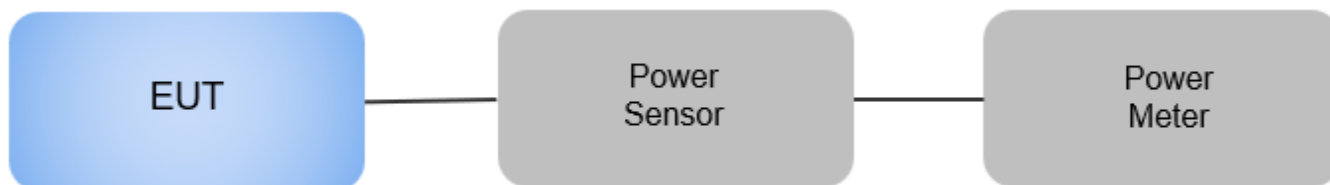
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6 TEST CONFIGURATION

6.1 Maximum Output Power



1. Place the EUT on the table and set it to transmit mode.
2. The testing was performed in accordance with the applicable measurement procedure.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. Record the maximum reading as observed from the power meter(Max Hold, Detector = Peak, RBW ≥20dB bandwidth).
5. Repeat the above procedures until all default test channels have been measured.

6.2 Time Of Occupancy (Dwell Time)



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.
3. The testing is performed in accordance with the applicable measurement procedure.
4. Configure the spectrum analyzer as follows:
 Set the center frequency of the spectrum analyzer to the operating frequency.
 RBW = 1 MHz
 VBW = 3 MHz
 Span = 0Hz
 Detector = Peak
 Adjust Sweep = 2 ~ 8ms
 Repeat above procedures until all datarate of the interest measured were complete.
5. Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.
6. Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total

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Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total

Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total

Slot: 6

*Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

6.3 Unwanted Emissions

6.3.1 Duty Cycle Correction Factor



1. Correction Factor For Radiated Unwanted Emission
2. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to produce the worst-case pulse ON time.
3. The testing was performed in accordance with the applicable measurement procedure.
4. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
5. Set the center frequency of the spectrum analyzer to the operating frequency.
6. Configure the spectrum analyzer as follows:
 - RBW = 1 MHz
 - VBW = 3 MHz
 - Span = 0 Hz
 - Detector = Peak
 - Sweep Time = 100 ms (manually adjusted)
 Repeat the above procedure until all datarate of interest have been measured.
7. Average Value (dBμV/m) = Peak Actual Field Strength (dBμV/m) + Duty Cycle Correction Factor (dB)
8. Duty Cycle Correction Factor (dB) = $20 \times \log_{10} (T_{on} / 100 \text{ ms})$

6.3.2 Radiated Emission

For Measurements From 9 kHz To 30 MHz

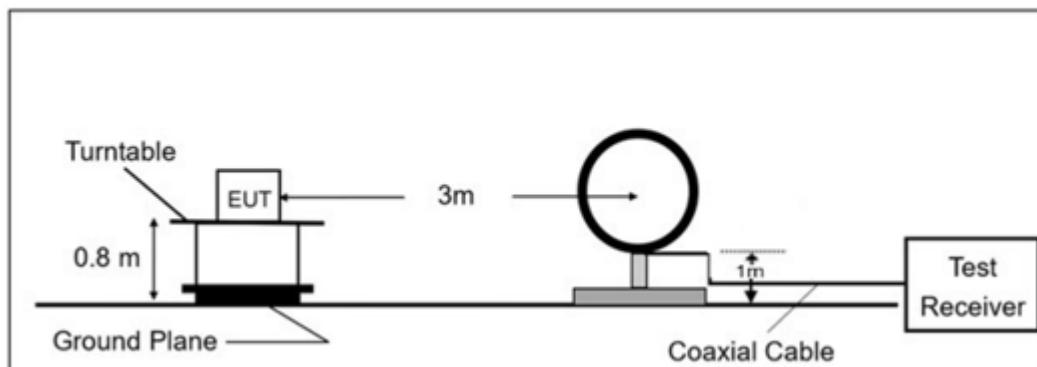
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

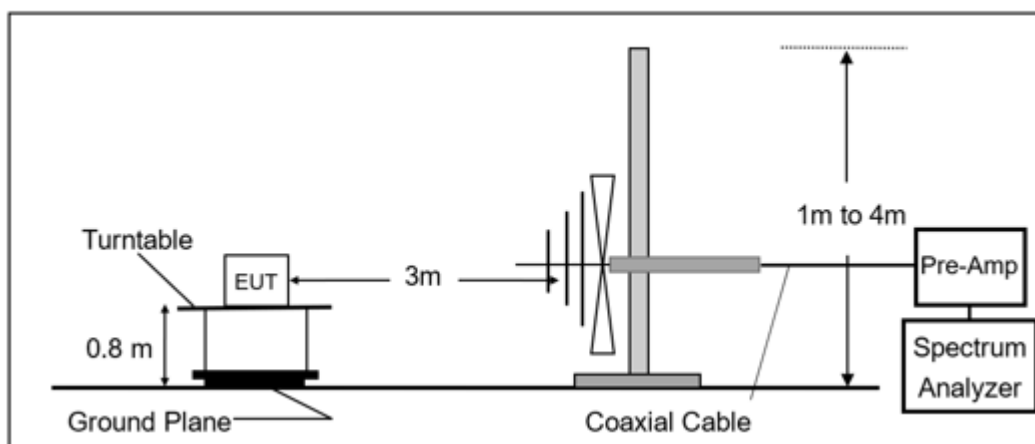
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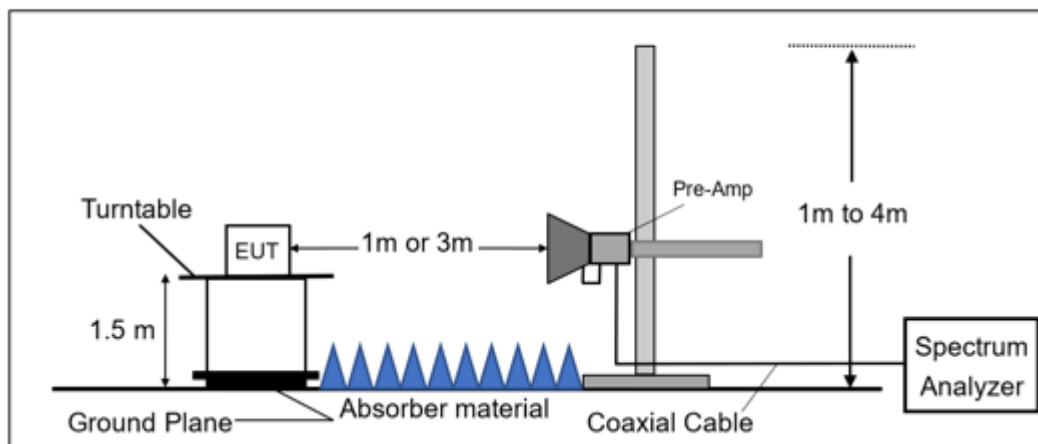
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.

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3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.
6. A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.
7. For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.
8. For average emission measurements above 1 GHz where the duty cycle (D) is $\geq 98\%$, the analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and the RMS detector with correction factor $[10 \log(1/D)]$. If the emission is continuous ($D \geq 98\%$) and does not switch ON/OFF with the transmit cycle, then no duty cycle correction is required.
9. For average emission measurements above 1 GHz where $D < 98\%$, the analyzer was set with RBW = 1 MHz and $VBW \geq 1/T$.
10. The average value of pulsed emissions is determined using the duty cycle correction method, applying a correction factor of $20 \times \log_{10} (T_{on} / 100 \text{ ms})$.
11. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
12. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
13. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
14. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

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6.3.3 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)

RA = Reading Amplitude (dB μ V)

AF = Antenna Factor (dB/m)

CL = Cable Loss (dB)

AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

Actual Field Strength (dB μ V/m) = Spectrum Analyzer Reading (dB μ V) + Total Factor (dB)

Total Factor (dB) = Antenna Factor (dB) + Cable Loss (dB) – Preamplifier Gain (dB)

Average value(dB μ V/m)=Peak Actual FS(dB μ V/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = $20 \log (T_{on}/100 \text{ ms})$

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

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7 TEST RESULTS

7.1 Maximum Output Power

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
DH5	77.51	1.11
2DH5	77.11	1.13
3DH5	77.20	1.12

1M BR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x53	12.28	16.904	1000
39	2441	0x53	12.44	17.539	1000
78	2480	0x53	12.57	18.072	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x53	12.12	16.280	1000
39	2441	0x53	12.19	16.544	1000
78	2480	0x53	12.32	17.047	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x51	11.85	15.311	125
39	2441	0x51	11.99	15.812	125
78	2480	0x51	12.15	16.406	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x51	9.62	9.160	125
39	2441	0x51	9.78	9.504	125
78	2480	0x51	9.89	9.748	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x51	12.21	16.634	125
39	2441	0x51	12.26	16.827	125
78	2480	0x51	12.31	17.022	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	0x51	9.68	9.298	125
39	2441	0x51	9.83	9.625	125
78	2480	0x51	9.93	9.849	125

*Note: Avg. output power has been calculated with duty factor.

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7.2 Time Of Occupancy (Dwell Time)

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	121.60	400
	DH3	260.80	400
	DH5	308.80	400

$\pi/4$ DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	2DH1	123.20	400
	2DH3	262.40	400
	2DH5	307.20	400

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	3DH1	124.80	400
	3DH3	262.40	400
	3DH5	308.80	400

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.380	*	(1600/2/79)	*	31.6	=	121.60 (ms)
	DH3 time slot	=	1.630	*	(1600/4/79)	*	31.6	=	260.80 (ms)
	DH5 time slot	=	2.895	*	(1600/6/79)	*	31.6	=	308.80 (ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot	=	0.385	*	(1600/2/79)	*	31.6	=	123.20 (ms)
	2DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40 (ms)
	2DH5 time slot	=	2.880	*	(1600/6/79)	*	31.6	=	307.20 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot	=	0.390	*	(1600/2/79)	*	31.6	=	124.80 (ms)
	3DH3 time slot	=	1.640	*	(1600/4/79)	*	31.6	=	262.40 (ms)
	3DH5 time slot	=	2.895	*	(1600/6/79)	*	31.6	=	308.80 (ms)

A period time = 0.4 (s) * 79 = 31.6 (s)

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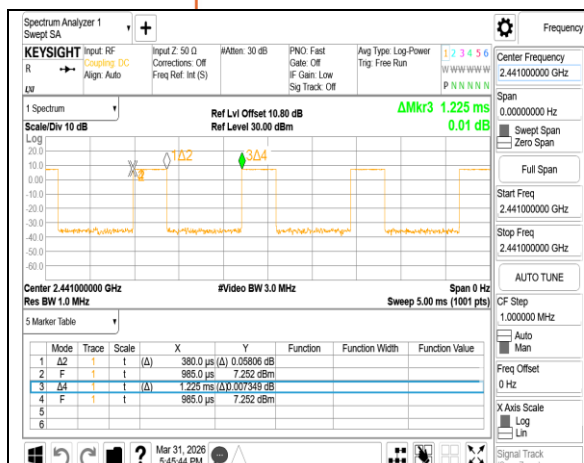
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t (886-2) 2299-3279

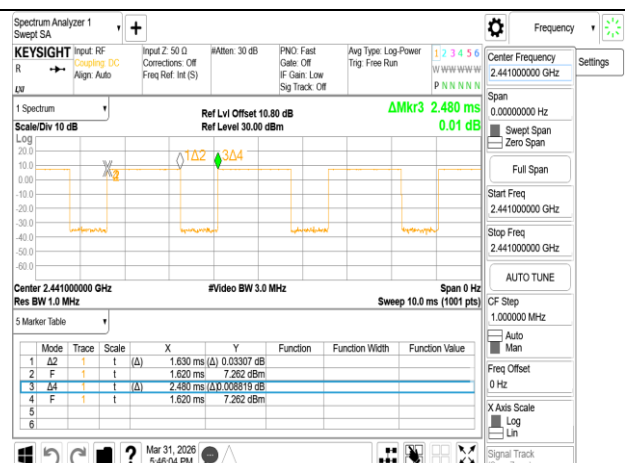
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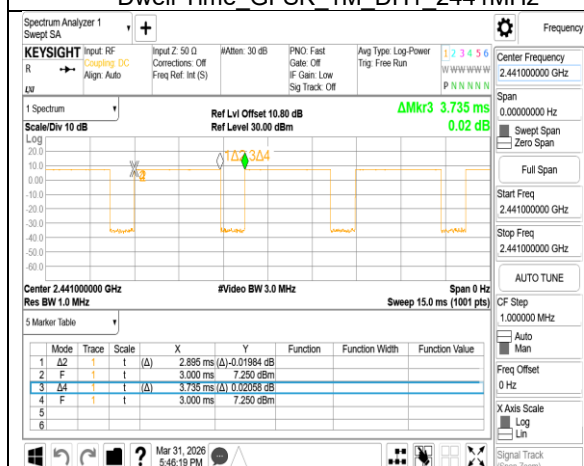
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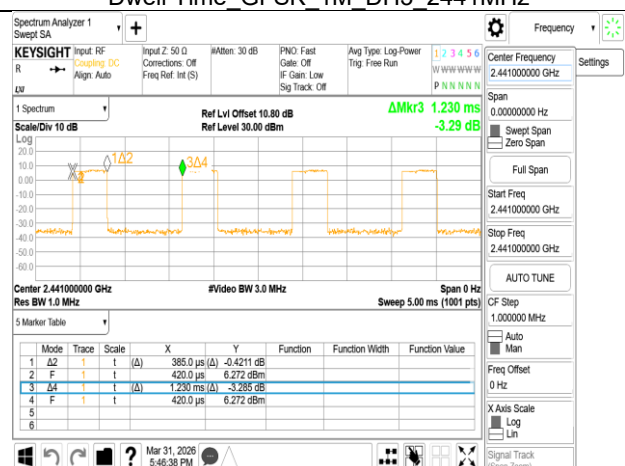
Dwell Time GFSK 1M DH1 2441MHz



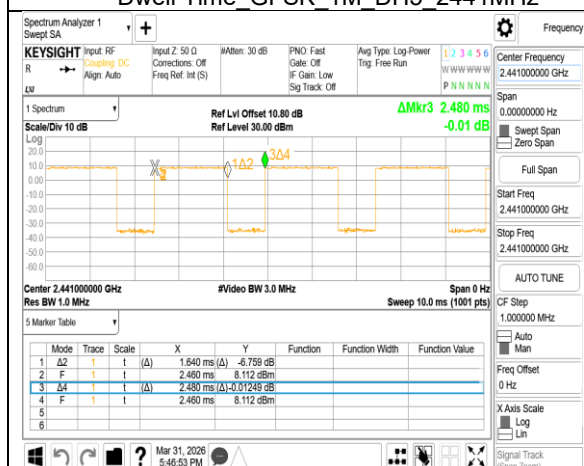
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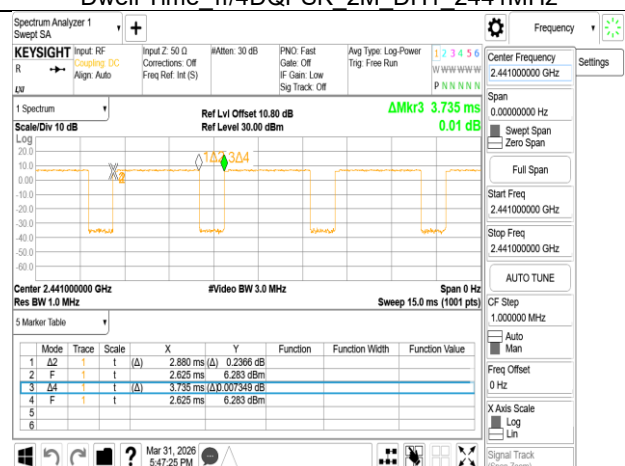
Dwell Time GFSK 1M DH5 2441MHz



Dwell Time $\pi/4$ DQPSK 2M DH1 2441MHz



Dwell Time $\pi/4$ DQPSK 2M DH3 2441MHz



Dwell Time $\pi/4$ DQPSK 2M DH5 2441MHz

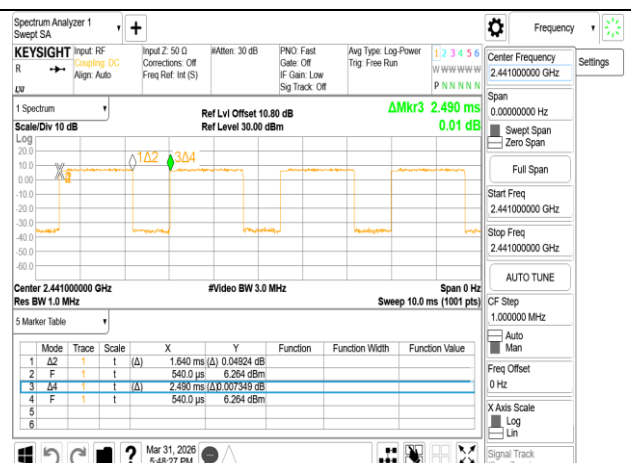
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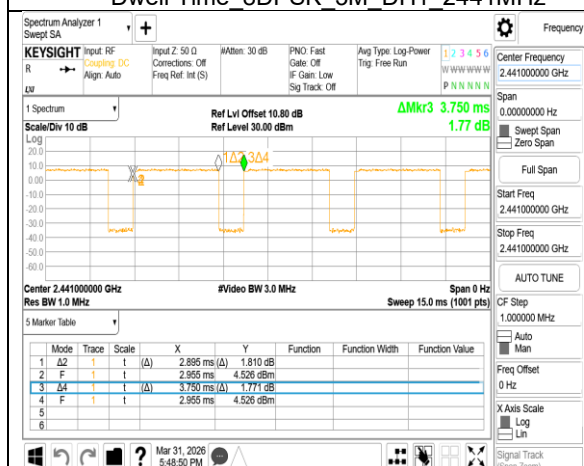
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Dwell Time 8DPSK 3M DH1 2441MHz



Dwell Time 8DPSK 3M DH3 2441MHz



Dwell Time 8DPSK 3M DH5 2441MHz

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7.3 Unwanted Emissions

7.3.1 Duty Cycle Correction Factor

Bluetooth 1M

Time ON of 100ms: 2.800 ms

Duty Cycle=2.8ms / 100ms= 0.028

Duty Cycle correction factor=20 LOG 0.028 = -31.05 dB

Bluetooth 3M

Time ON of 100ms: 2.900 ms

Duty Cycle=2.9ms / 100ms= 0.029

Duty Cycle correction factor=20 LOG 0.029 = -30.75 dB

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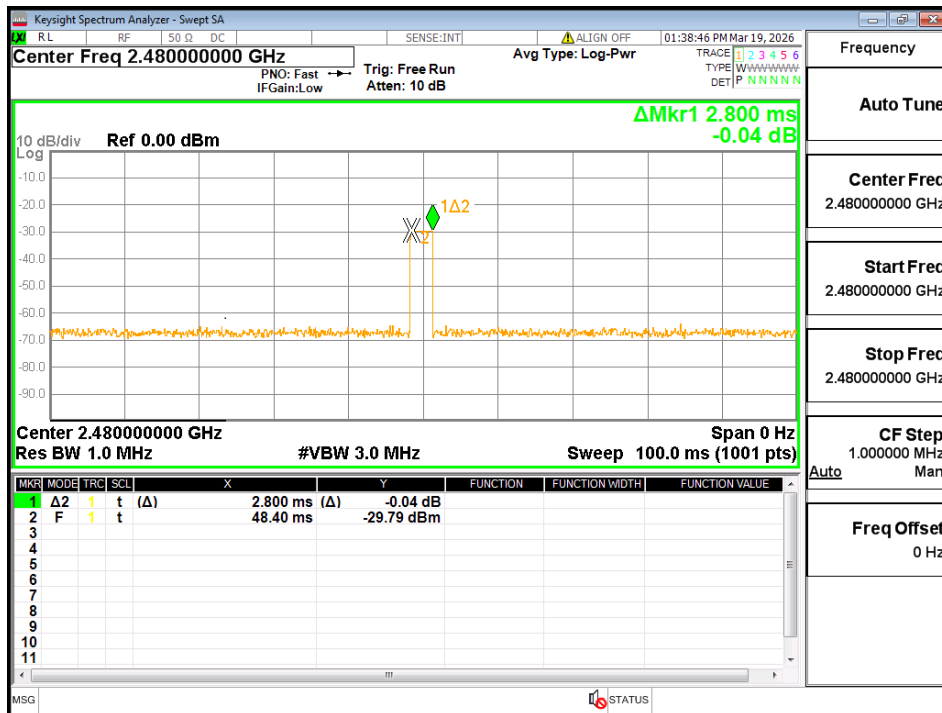
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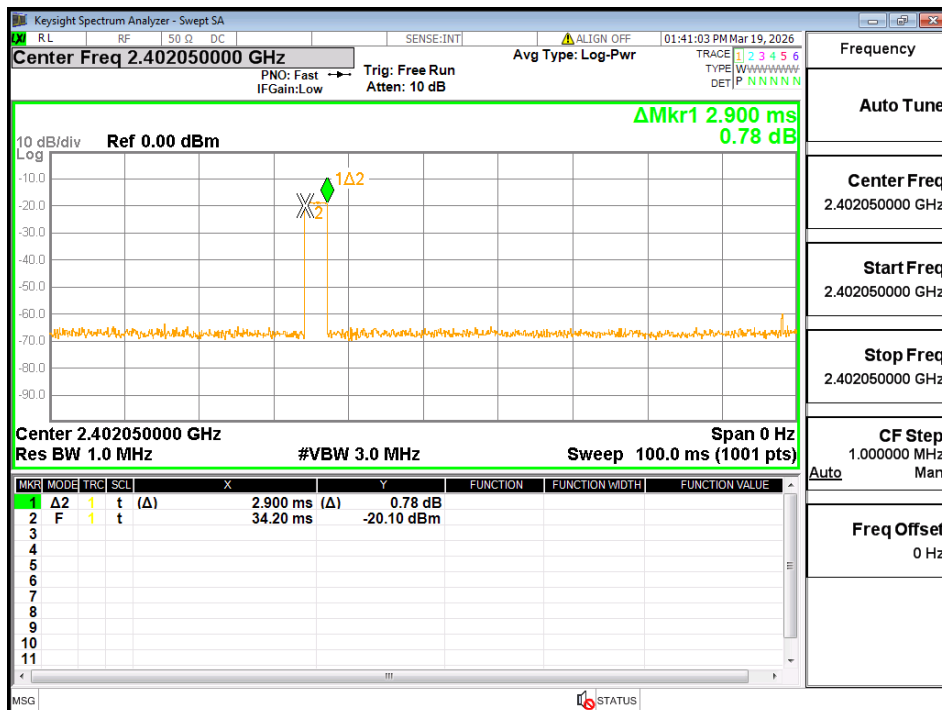
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7.3.2 Duty Cycle test plot

BR



EDR



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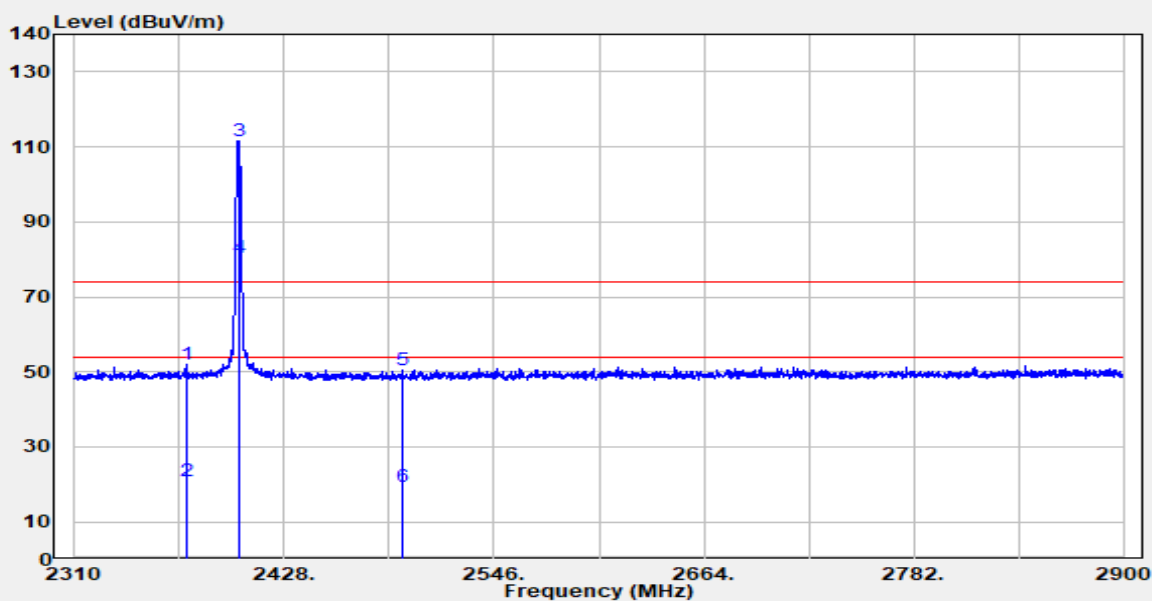
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7.3.3 Bandedge Result

Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2372.76	Peak	54.93	-3.01	51.92	74.00	-22.08
2372.76	Average	-	-	20.87	54.00	-33.13
2402.07	Peak	114.53	-3.09	111.44	-	-
2402.07	Average	-	-	80.39	-	-
2494.14	Peak	53.50	-3.18	50.32	74.00	-23.68
2494.14	Average	-	-	19.27	54.00	-34.73

Average Duty Cycle Factor=-31.05 (dB)

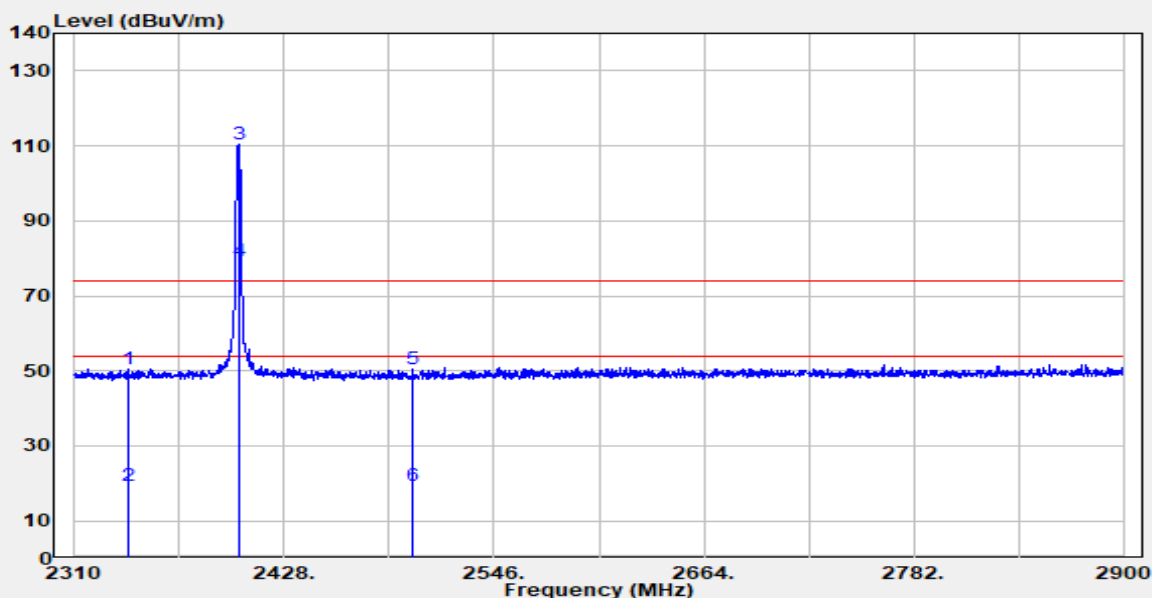
Average Level= Peak Level+ Duty Cycle Factor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2339.71	Peak	53.49	-2.96	50.53	74.00	-23.47
2339.71	Average	-	-	19.48	54.00	-34.52
2402.07	Peak	113.37	-3.09	110.28	-	-
2402.07	Average	-	-	79.23	-	-
2500.04	Peak	53.76	-3.24	50.52	74.00	-23.48
2500.04	Average	-	-	19.47	54.00	-34.53

Average Duty Cycle Factor=-31.05 (dB)

Average Level= Peak Level+ Duty Cycle Factor

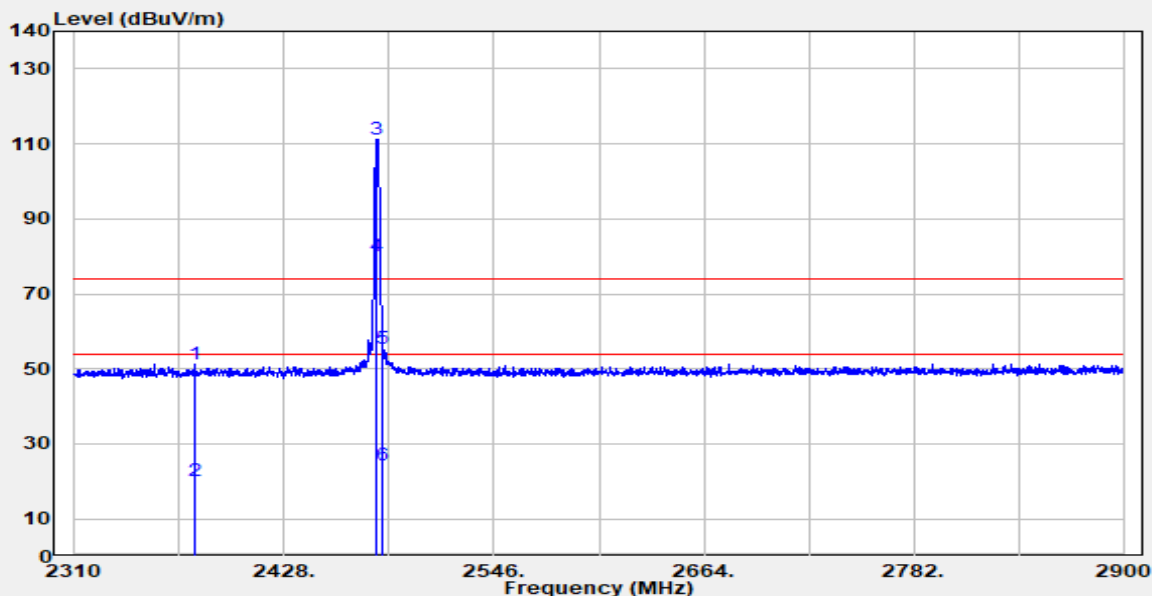
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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2377.28	Peak	54.28	-3.01	51.27	74.00	-22.73
2377.28	Average	-	-	20.22	54.00	-33.78
2480.17	Peak	114.37	-3.13	111.24	-	-
2480.17	Average	-	-	80.19	-	-
2483.52	Peak	58.54	-3.13	55.41	74.00	-18.59
2483.52	Average	-	-	24.36	54.00	-29.64

Average Duty Cycle Factor=-31.05 (dB)

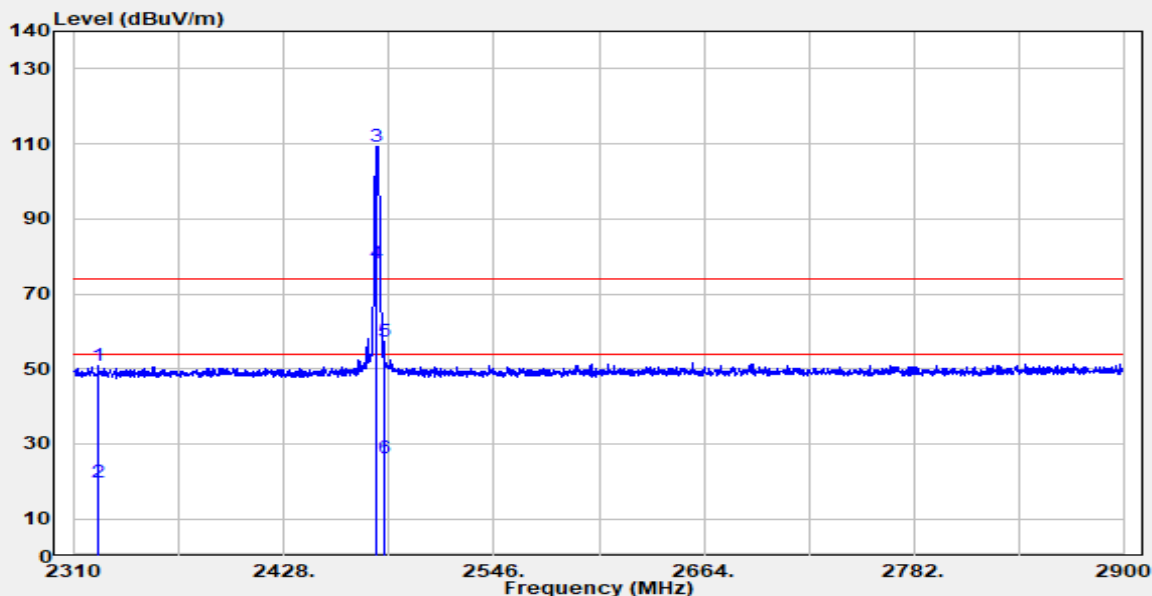
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2322.98	Peak	53.90	-2.99	50.91	74.00	-23.09
2322.98	Average	-	-	19.86	54.00	-34.14
2480.17	Peak	112.35	-3.13	109.22	-	-
2480.17	Average	-	-	78.17	-	-
2483.91	Peak	60.33	-3.13	57.20	74.00	-16.80
2483.91	Average	-	-	26.15	54.00	-27.85

Average Duty Cycle Factor=-31.05 (dB)

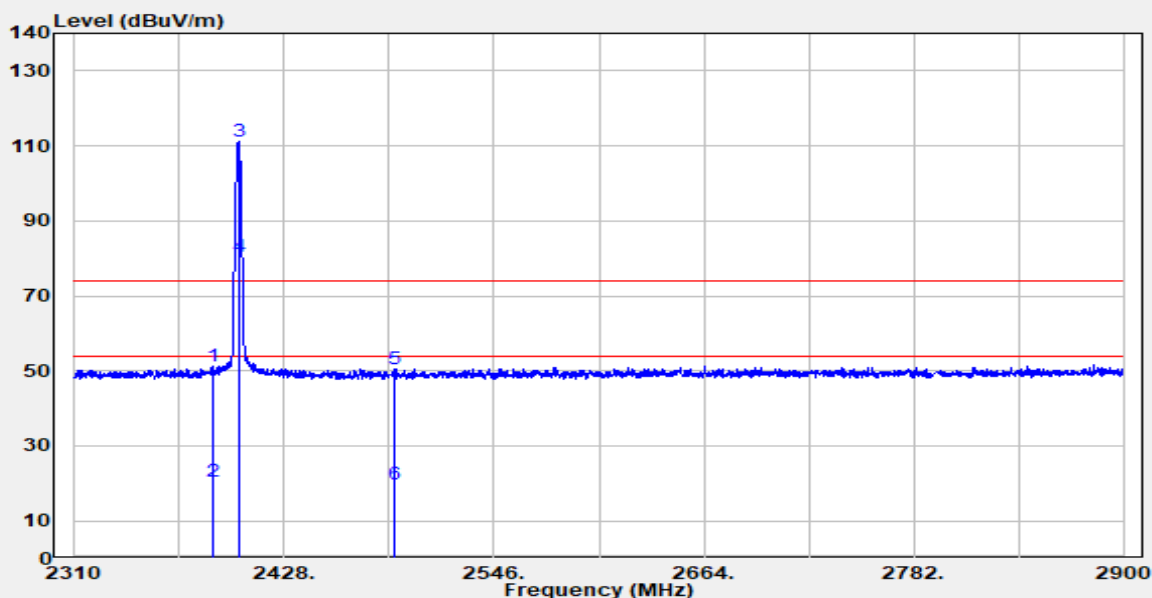
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2377.32	Peak	54.08	-3.00	51.08	74.00	-22.92
2377.32	Average	-	-	20.33	54.00	-33.67
2402.07	Peak	114.26	-3.09	111.17	-	-
2402.07	Average	-	-	80.42	-	-
2489.62	Peak	53.53	-3.13	50.40	74.00	-23.60
2489.62	Average	-	-	19.65	54.00	-34.35

Average Duty Cycle Factor=-30.75 (dB)

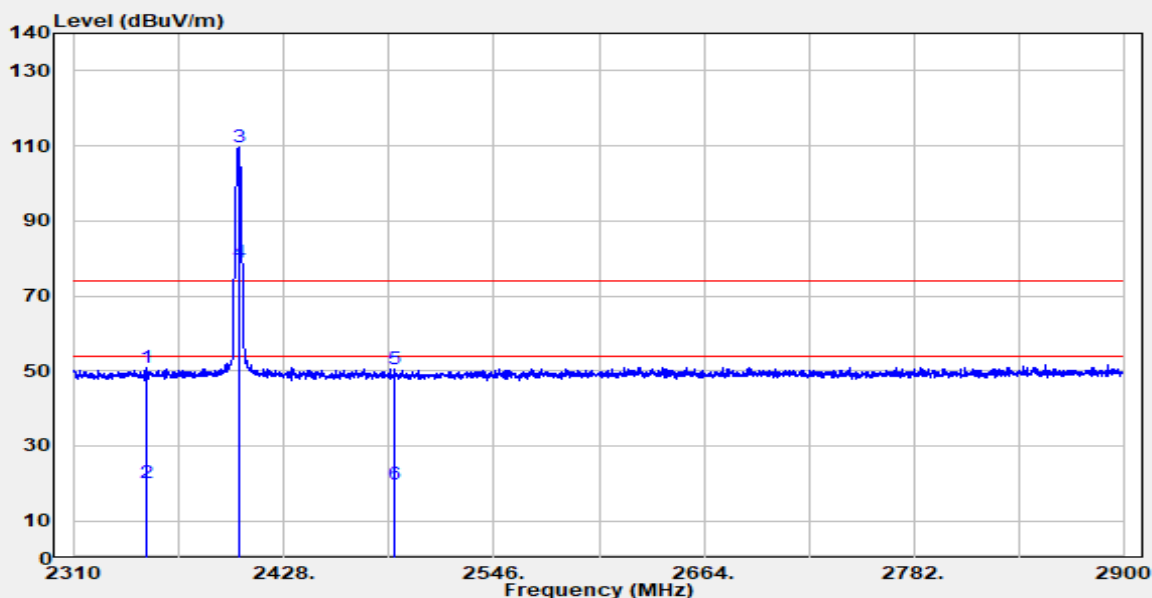
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2349.94	Peak	53.67	-2.95	50.72	74.00	-23.28
2349.94	Average	-	-	19.97	54.00	-34.03
2402.07	Peak	112.80	-3.09	109.71	-	-
2402.07	Average	-	-	78.96	-	-
2489.62	Peak	53.77	-3.13	50.64	74.00	-23.36
2489.62	Average	-	-	19.89	54.00	-34.11

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

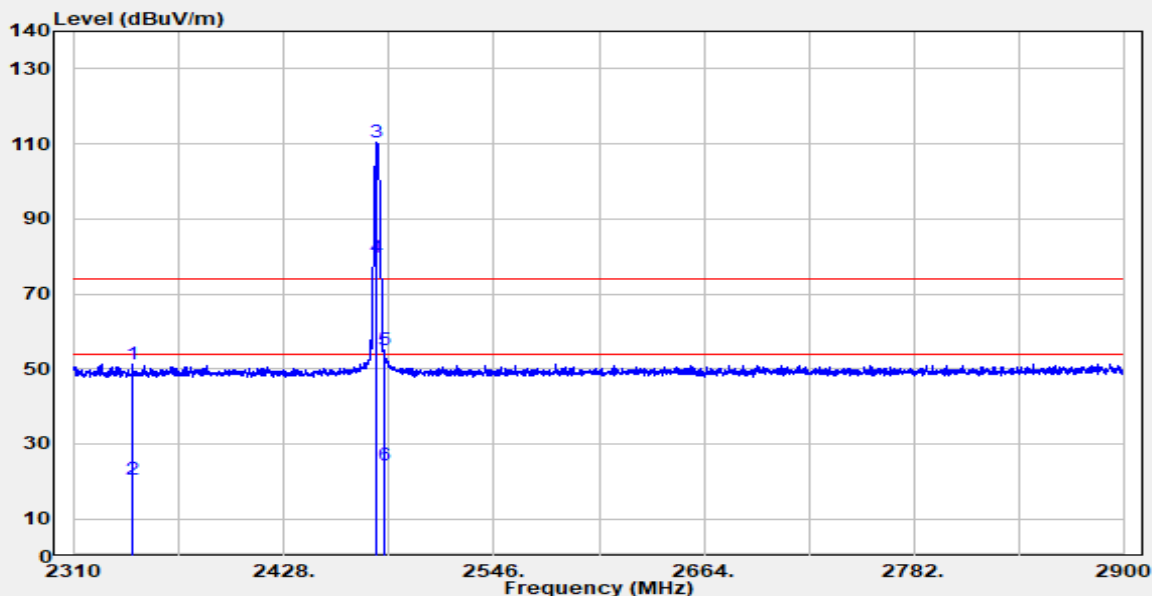
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Report Number :TERF2603000802E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2342.26	Peak	54.27	-2.96	51.31	74.00	-22.69
2342.26	Average	-	-	20.56	54.00	-33.44
2480.17	Peak	113.48	-3.13	110.35	-	-
2480.17	Average	-	-	79.60	-	-
2484.11	Peak	58.19	-3.13	55.06	74.00	-18.94
2484.11	Average	-	-	24.31	54.00	-29.69

Average Duty Cycle Factor=-30.75 (dB)

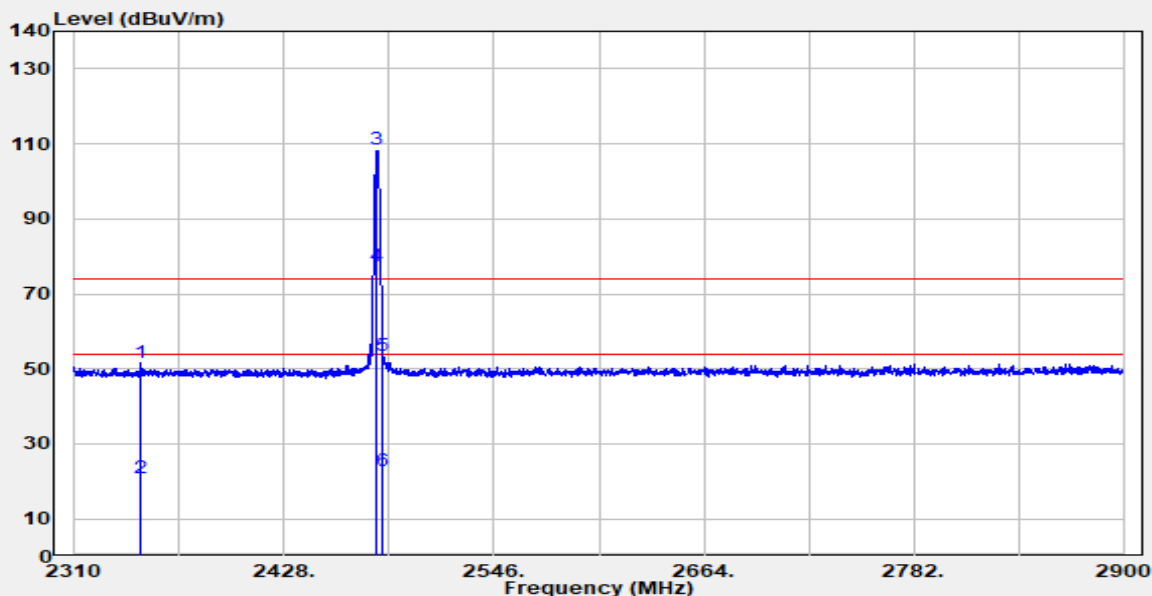
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2347.18	Peak	54.43	-2.95	51.48	74.00	-22.52
2347.18	Average	-	-	20.73	54.00	-33.27
2480.17	Peak	111.45	-3.13	108.32	-	-
2480.17	Average	-	-	77.57	-	-
2483.52	Peak	56.72	-3.13	53.59	74.00	-20.41
2483.52	Average	-	-	22.84	54.00	-31.16

Average Duty Cycle Factor=-30.75 (dB)

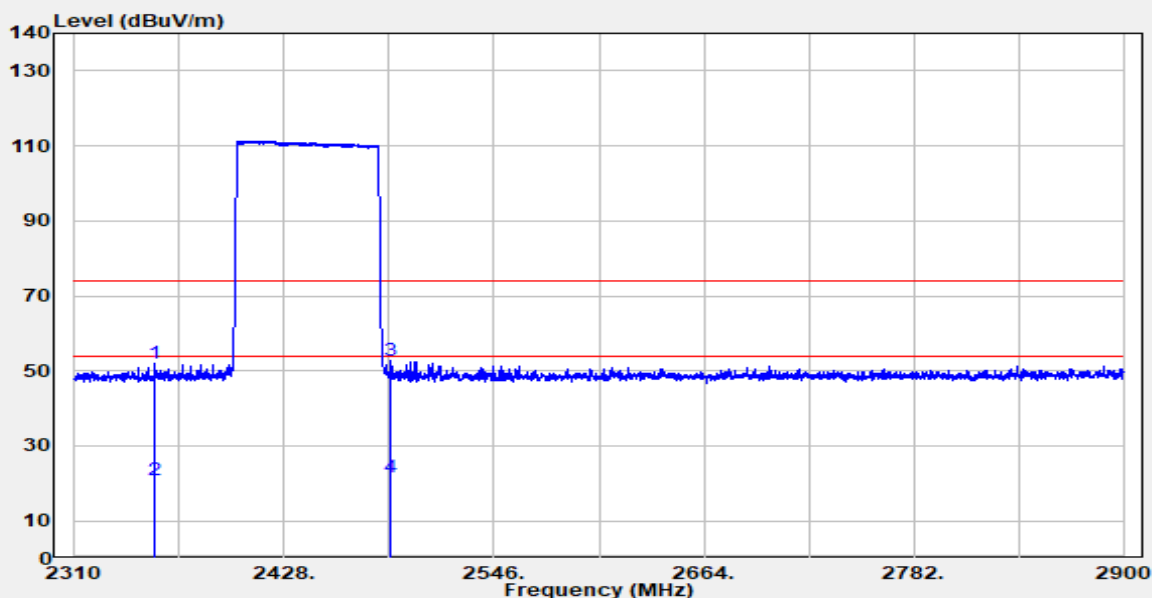
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2355.05	Peak	54.91	-2.94	51.97	74.00	-22.03
2355.05	Average	-	-	20.92	54.00	-33.08
2488.04	Peak	55.74	-3.14	52.60	74.00	-21.40
2488.04	Average	-	-	21.55	54.00	-32.45

Average Duty Cycle Factor=-31.05 (dB)

Average Level= Peak Level+ Duty Cycle Factor

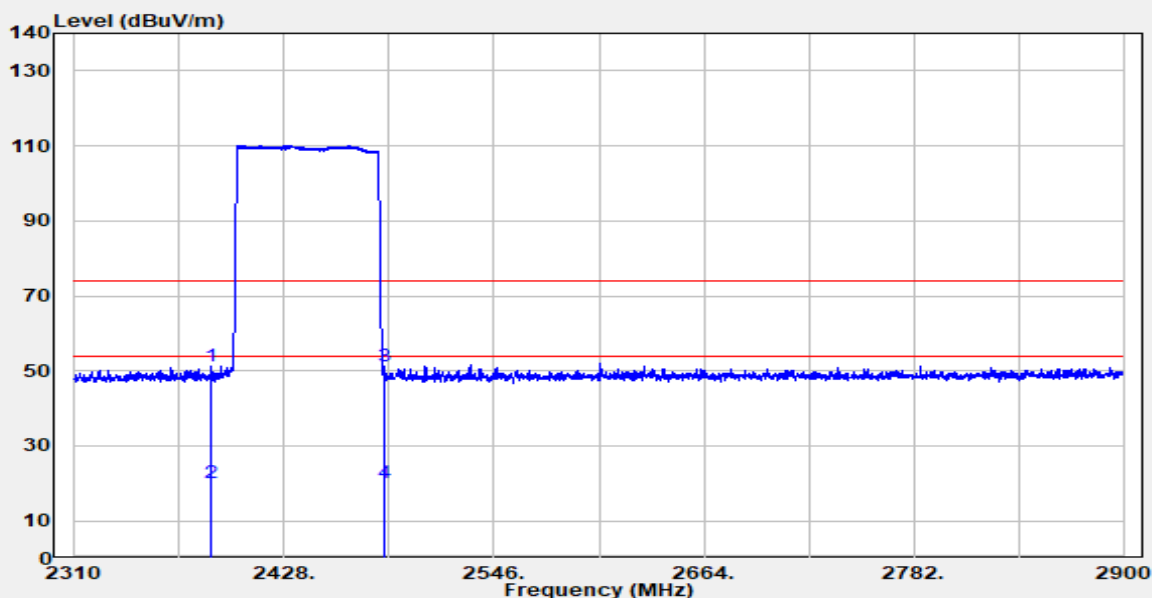
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Report Number :TERF2603000802E2
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.73	Peak	54.26	-3.00	51.26	74.00	-22.74
2386.73	Average	-	-	20.21	54.00	-33.79
2484.50	Peak	54.45	-3.13	51.32	74.00	-22.68
2484.50	Average	-	-	20.27	54.00	-33.73

Average Duty Cycle Factor=-31.05 (dB)

Average Level= Peak Level+ Duty Cycle Factor

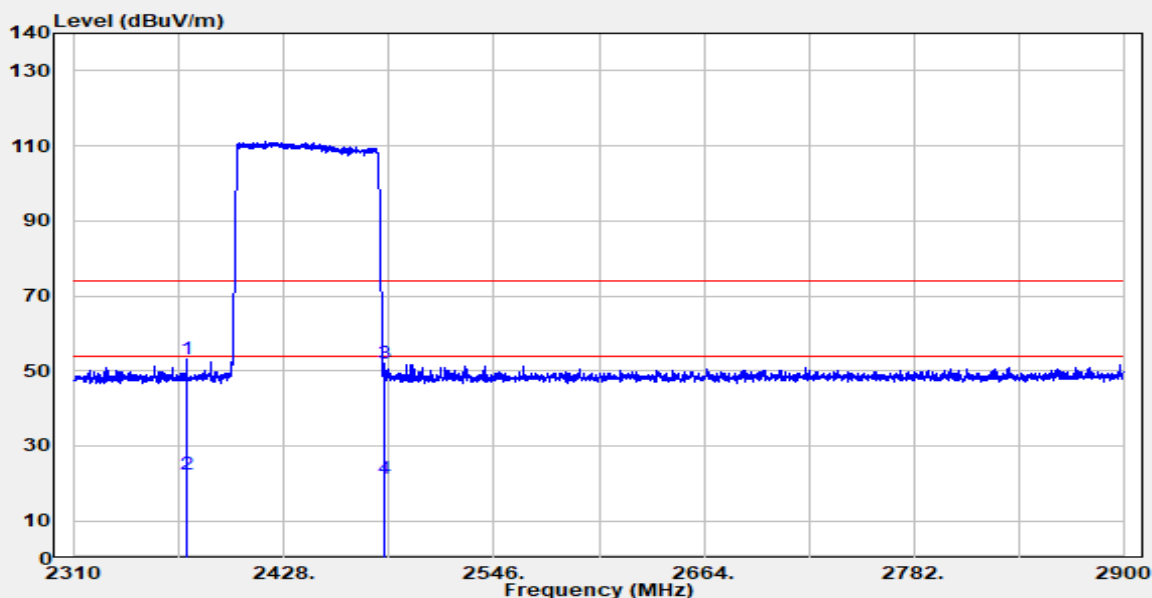
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Report Number :TERF2603000802E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2372.76	Peak	56.28	-3.01	53.27	74.00	-20.73
2372.76	Average	-	-	22.52	54.00	-31.48
2484.70	Peak	55.18	-3.13	52.05	74.00	-21.95
2484.70	Average	-	-	21.30	54.00	-32.70

Average Duty Cycle Factor=-30.75 (dB)

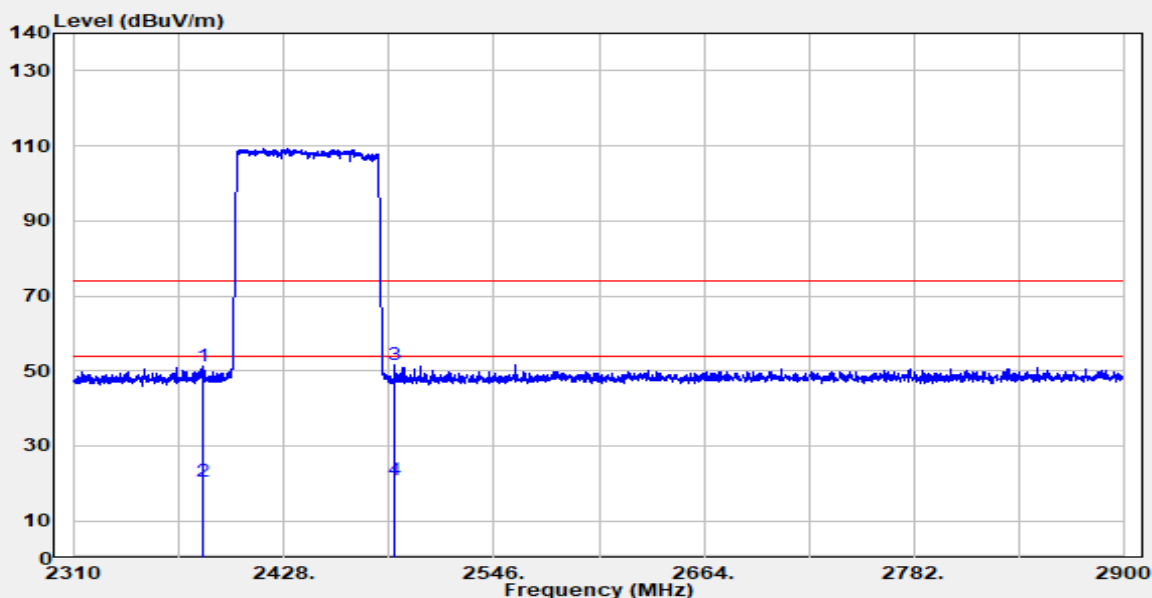
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2382.00	Peak	54.38	-3.00	51.38	74.00	-22.62
2382.00	Average	-	-	20.63	54.00	-33.37
2490.21	Peak	54.86	-3.13	51.73	74.00	-22.27
2490.21	Average	-	-	20.98	54.00	-33.02

Average Duty Cycle Factor=-30.75 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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7.3.4 Radiated Spurious Emission

Report Number :TERF2603000802E2

Operation Mode :BR

Test Frequency :2441 MHz

Test Mode :Tx

EUT Pol :NB Mode

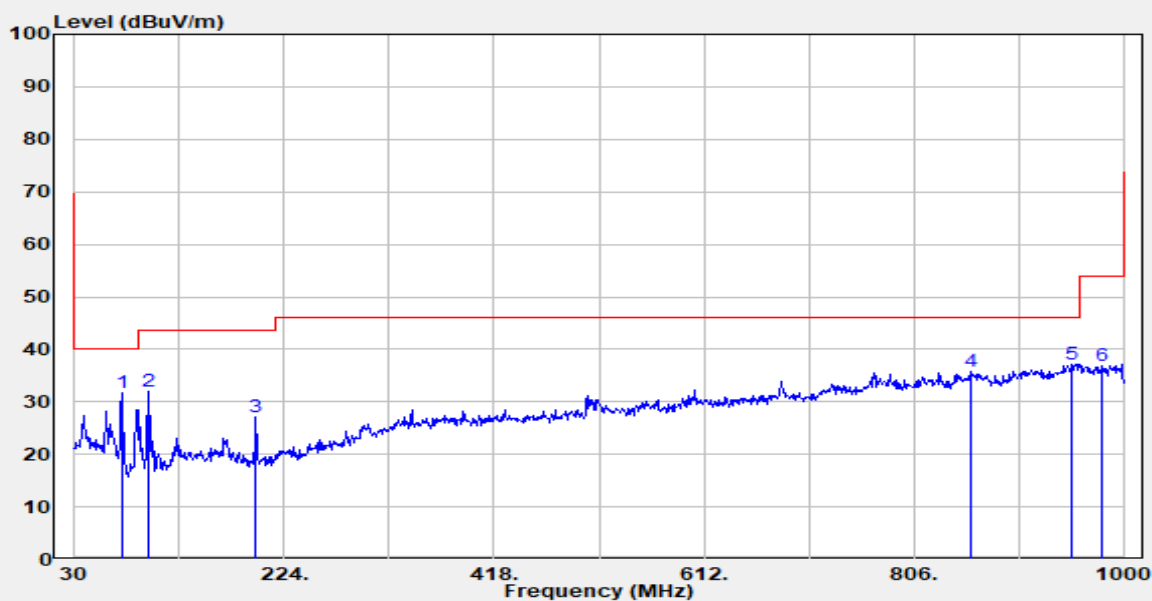
Test Site :SAC D

Test Date :2026-03-27

Temp./Humi. :23.1°C/51%

Antenna Pol. :Vertical

Engineer :Temo Chen



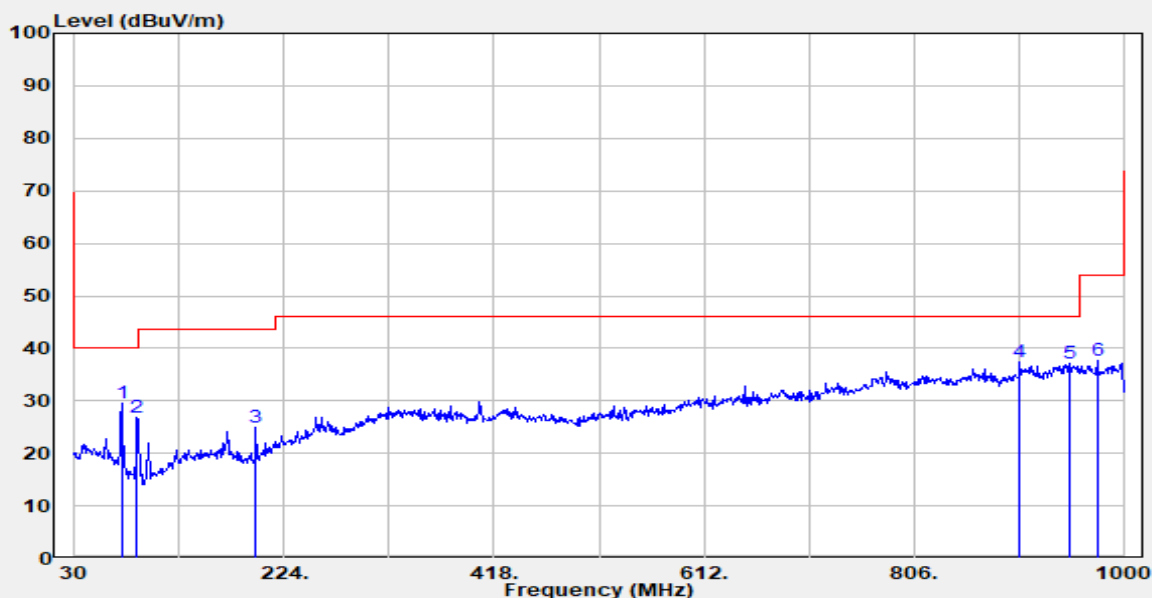
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
73.65	Peak	47.20	-15.46	31.74	40.00	-8.26
98.87	Peak	49.20	-17.28	31.92	43.50	-11.58
197.81	Peak	42.08	-15.03	27.05	43.50	-16.45
859.35	Peak	35.32	0.46	35.78	46.00	-10.22
952.47	Peak	34.80	2.23	37.03	46.00	-8.97
979.63	Peak	34.63	2.34	36.97	54.00	-17.03

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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
73.65	Peak	44.93	-15.46	29.47	40.00	-10.53
87.23	Peak	45.01	-18.28	26.73	40.00	-13.27
197.81	Peak	40.05	-15.03	25.02	43.50	-18.48
903.97	Peak	36.08	1.24	37.32	46.00	-8.68
950.53	Peak	34.95	2.22	37.17	46.00	-8.83
975.75	Peak	35.26	2.35	37.61	54.00	-16.39

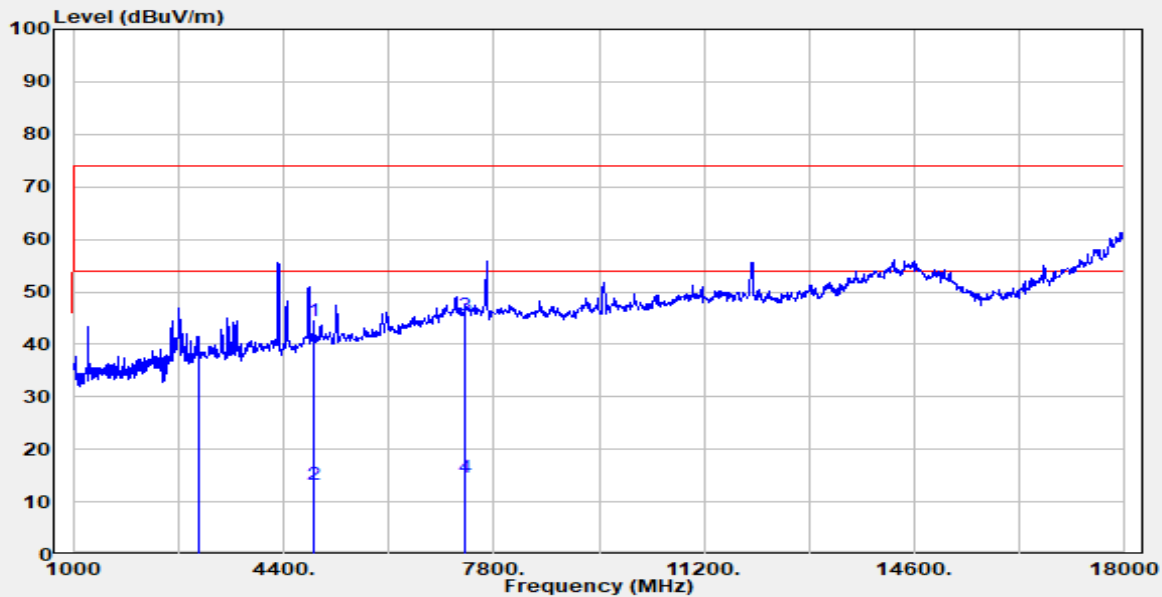
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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	Peak	42.81	1.55	44.36	74.00	-29.64
4882.00	Average	-	-	13.31	54.00	-40.69
7323.00	Peak	38.18	7.48	45.66	74.00	-28.34
7323.00	Average	-	-	14.61	54.00	-39.39

Average Duty Cycle Factor=-31.05 (dB)

Average Level= Peak Level+ Duty Cycle Factor

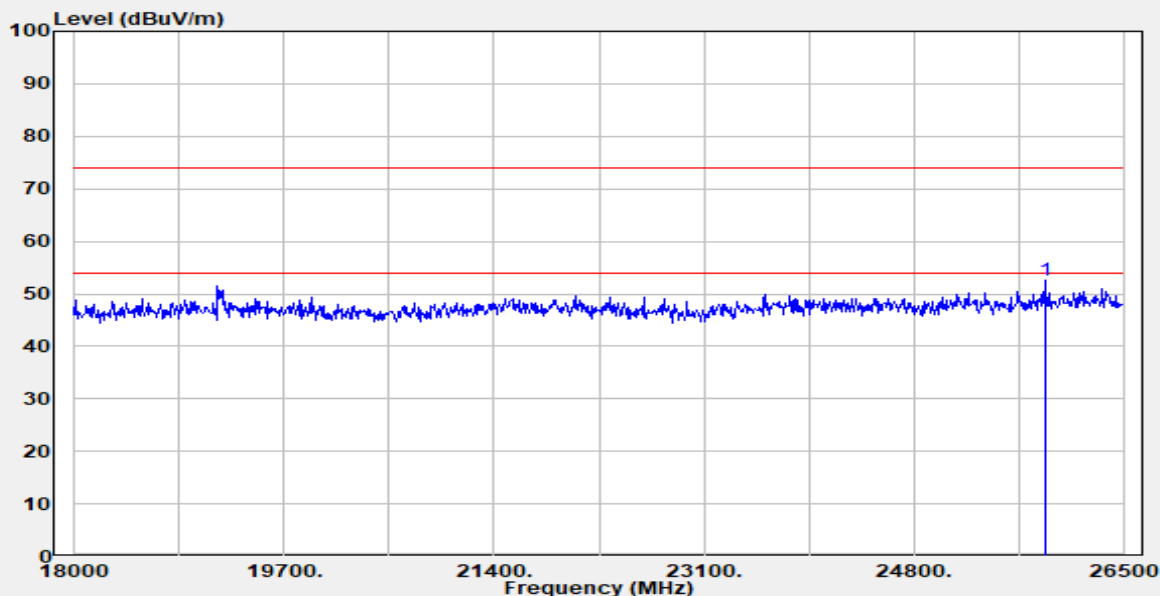
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Report Number :TERF2603000802E2
Operation Mode :BR
Test Frequency :2441 MHz
Test Mode :Tx
EUT Pol :NB Mode

Test Site :SAC D
Test Date :2026-03-27
Temp./Humi. :23.1°C/51%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
25862.50	Peak	44.60	7.88	52.48	74.00	-21.52

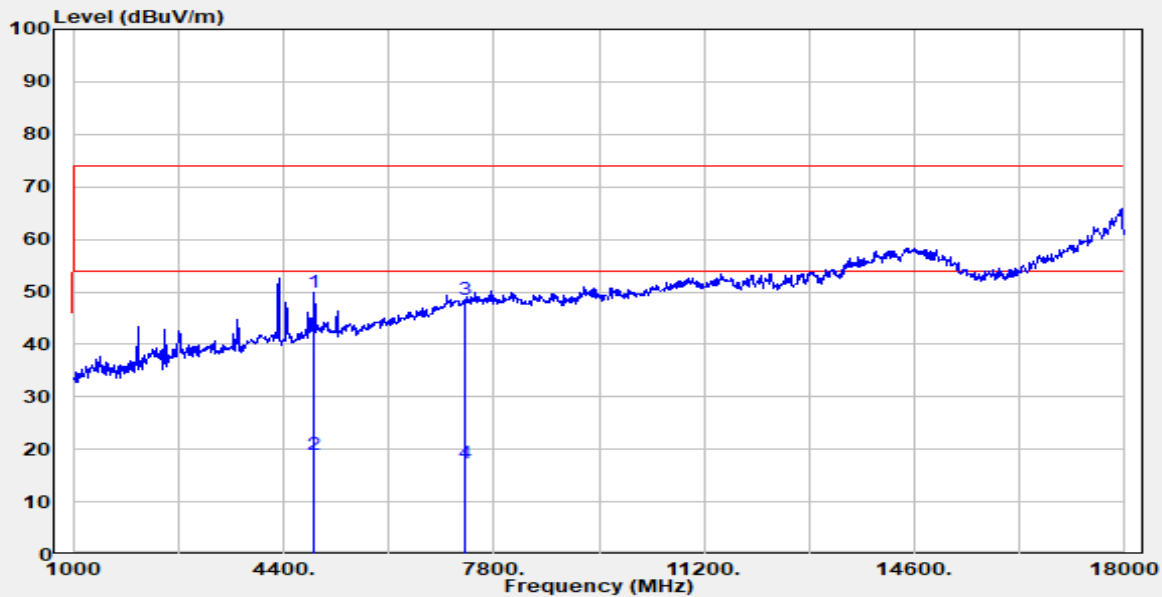
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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	46.62	3.29	49.91	74.00	-24.09
4882.00	Average	-	-	18.86	54.00	-35.14
7323.00	Peak	38.81	9.59	48.40	74.00	-25.60
7323.00	Average	-	-	17.35	54.00	-36.65

Average Duty Cycle Factor=-31.05 (dB)

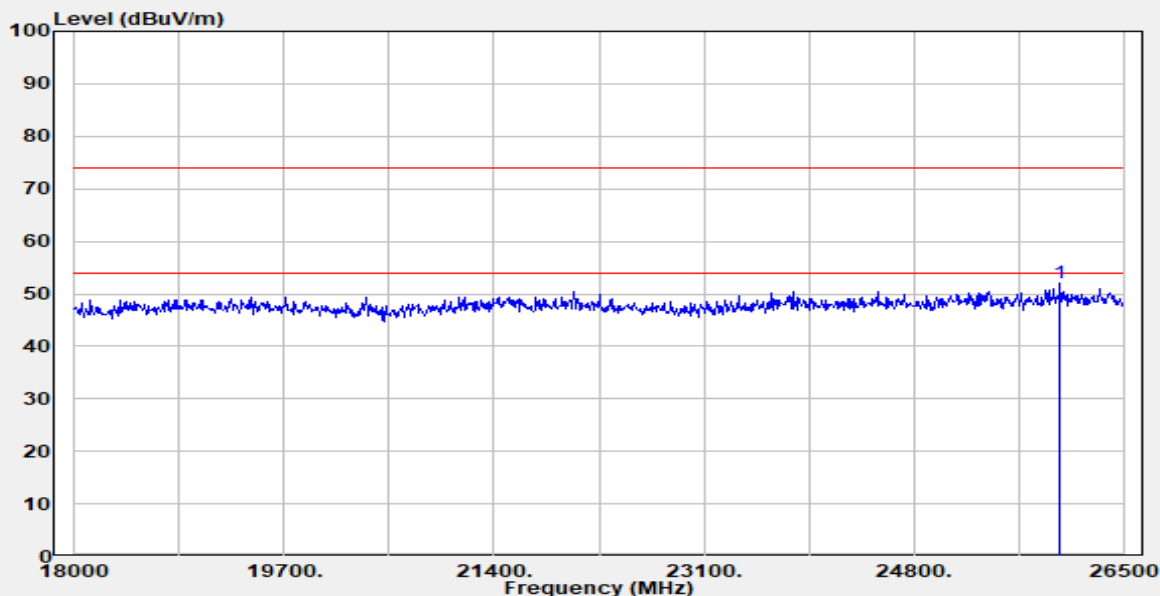
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2603000802E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.1°C/51%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
25990.00	Peak	43.78	8.18	51.96	74.00	-22.04

~ End of Report ~

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