

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Mini, Clover Station Duo Terminal

Brand Name: Clover

Model No. /ISED HVIN: C305, C505

Model Difference: Refer to section 1.3

ISED PMN: C305, C505

Report Number: TERF2501000049E2

FCC ID HFS-C305

IC: 1787B-C305

Date of EUT Received: January 3, 2025

Date of Test: January 23, 2025~February 24, 2025

Issue Date: March 7, 2025

Approved By

Jay Lin

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
TERF2501000049E2	00	Class II permissive change for change End Front Module	March 7, 2025	Karen Huang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers / product name is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Clover Mini, Clover Station Duo Terminal
Brand Name:	Clover
Model No./ISED HVIN:	C305, C505
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C035UT44450001
Power Supply:	12V from Adapter
Test Software (Name/Version)	QRCT 4.0

1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	4.45 dBm
Frequency Range:	2.402GHz – 2.480GHz

1.3 Model Difference:

1. The components for printer are not mounted and there is no printer module for C505.
2. C505 doesn't have the paper compartment for printer.
3. C505 doesn't have the printer function.

1.4 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	2402-2480	1.78

Note:

1. Antenna information is provided by the applicant.

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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 Designa- tion 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 indica- tion where measurements occurred in specific test site and address.				

1.7 Special Accessories

There is no special accessory 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.

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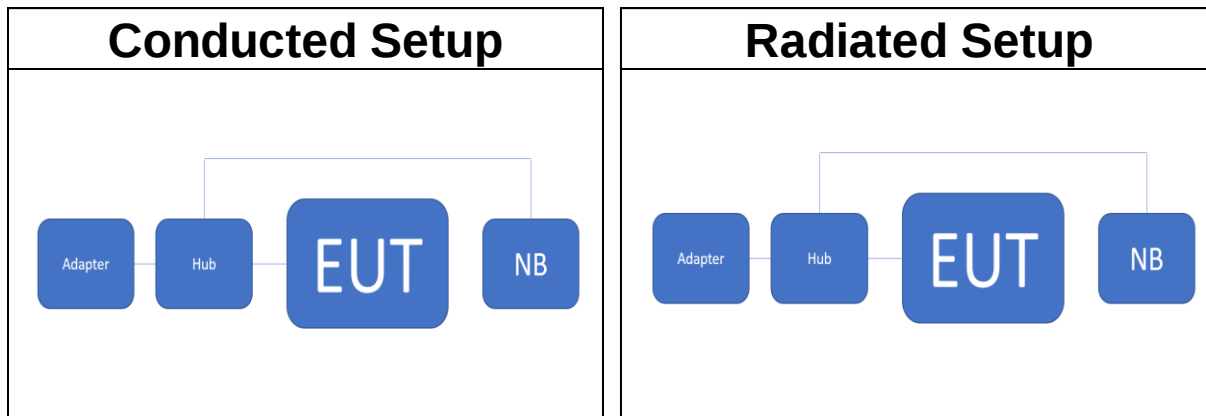
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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Type-A To Type-B Cable	POLYWELL	DCAC18-A900F9BL9	N/A	N/A	N/A
HUB	Clocer	H305	H035UT44450004	N/A	N/A
Adapter	Clocer	FSP040-RHBN3	FSQAG12033C0052 4183D45	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L412	S0011357	N/A	N/A
Type-A To Type-B Cable	POLYWELL	DCAC18-A900F9BL9	N/A	N/A	N/A
HUB	Clocer	H305	H035UT44450004	N/A	N/A
Adapter	Clocer	FSP040-RHBN3	FSQAG12033C0052 4183D45	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(b)(1)	RSS-247 §5.4 b	Peak Output Power	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Band Edge and Spurious Emission	Compliant

Note

1. This test report is an addendum to the original test report TERF2208001392E2.

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

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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 Investigation has been done on all the possible configurations for searching the worst case.

ANTNNA 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

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	DH5/3DH5
Bluetooth	0 to 78	0,78	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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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
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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 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
Attenuator	Woken	WATT-218FS-10	RF19	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	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/14/2024	11/13/2025
High Pass Filter	WI	WHKX10-2624-3200-18000-80SS	RF176	11/14/2024	11/13/2025
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWI-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	05/08/2024	05/07/2025
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/28/2024	06/27/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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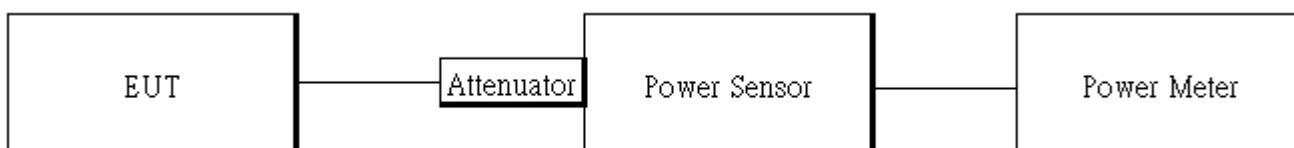
7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

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.

The e.i.r.p. shall not exceed 4 W.

7.2 Test Setup



7.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10 Measurement Guidelines.
3. Duty cycle of test signal is < 98 %, duty factor shall be considered.
4. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
5. Record the max. reading.
6. Repeat above procedures until all default test channel is completed.

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7.4 Peak & Average Power Measurement Result

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
DH5	76.80	1.15
2DH5	77.20	1.12
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	8	2.92	1.959	1000
39	2441	8	0.93	1.239	1000
78	2480	8	4.45	2.786	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	8	2.72	1.869	1000
39	2441	8	0.68	1.169	1000
78	2480	8	4.20	2.628	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	8	2.06	1.607	125
39	2441	8	0.02	1.005	125
78	2480	8	3.57	2.275	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	8	-0.68	0.856	125
39	2441	8	-2.87	0.517	125
78	2480	8	0.79	1.201	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	8	2.53	1.791	125
39	2441	8	0.41	1.099	125
78	2480	8	4.00	2.512	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	8	-0.63	0.866	125
39	2441	8	-2.82	0.523	125
78	2480	8	0.85	1.217	125

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

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7.5 EIRP Measurement Result

1M BR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	2402	8	2.72	1.78	2.816	4000
39	2441	8	0.68	1.78	1.761	4000
78	2480	8	4.20	1.78	3.959	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	2402	8	-0.68	1.78	1.289	4000
39	2441	8	-2.87	1.78	0.779	4000
78	2480	8	0.79	1.78	1.809	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	2402	8	-0.63	1.78	1.304	4000
39	2441	8	-2.82	1.78	0.788	4000
78	2480	8	0.85	1.78	1.834	4000

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

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8 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle Correction Factor

According to 15. 35(c) and RSS-Gen §8.2, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

8.1.2 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:

1. The lower limit shall apply at the transition frequencies.

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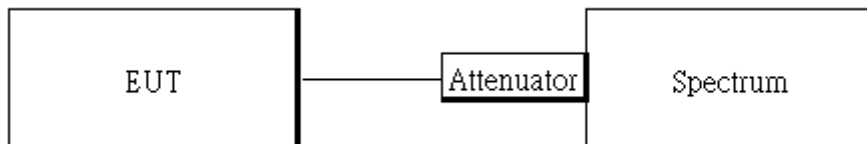
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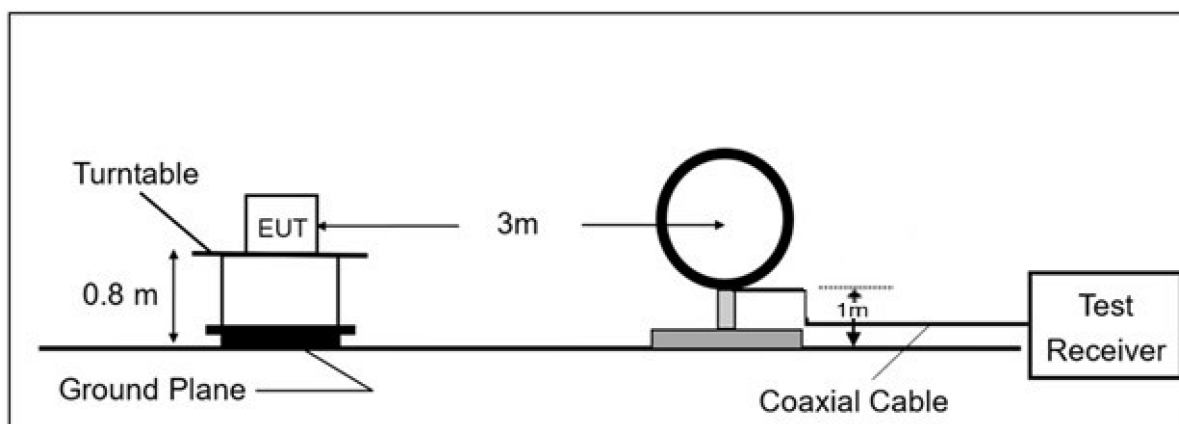
8.2 Test Setup

8.2.1 Duty Cycle Correction Factor

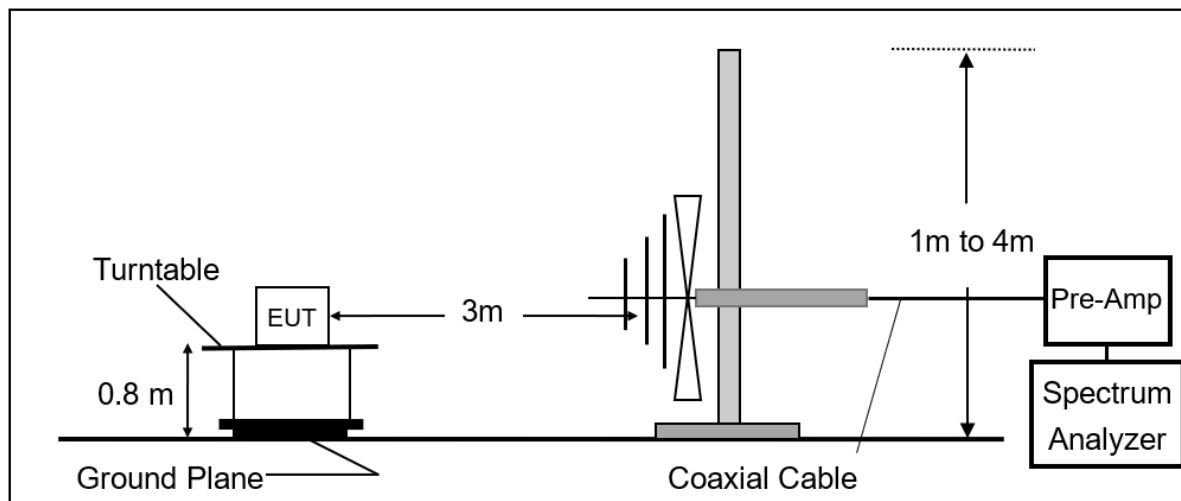


8.2.2 Radiated Emission

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



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



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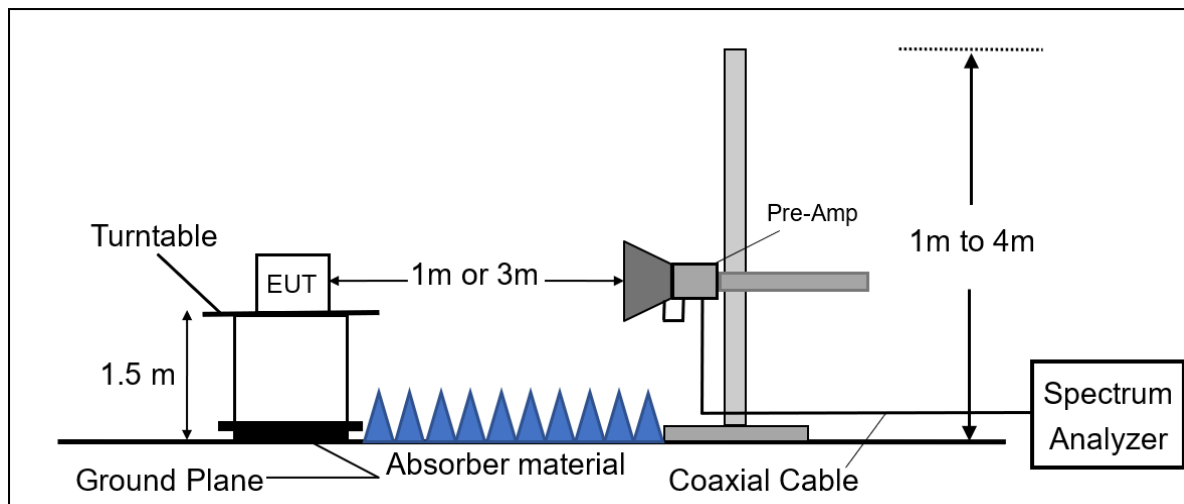
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



8.3 Measurement Procedure

8.3.1 Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10:2013.
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 center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

8.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

8.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

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

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

8.5 Test Results of Radiated Spurious Emissions form 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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8.6 Measurement Result:

8.6.1 Duty Cycle Correction Factor

Model: C305

Bluetooth 1M

Time ON of 100ms: 72.800 ms

Duty Cycle=72.8ms / 100ms= 0.728

Duty Cycle correction factor=20 LOG 0.728 = -2.75 dB

Bluetooth 3M

Time ON of 100ms: 75.400 ms

Duty Cycle=75.4ms / 100ms= 0.754

Duty Cycle correction factor=20 LOG 0.754 = -2.45 dB

Model: C505

Bluetooth 1M

Time ON of 100ms: 72.800 ms

Duty Cycle=72.8ms / 100ms= 0.728

Duty Cycle correction factor=20 LOG 0.728 = -2.75 dB

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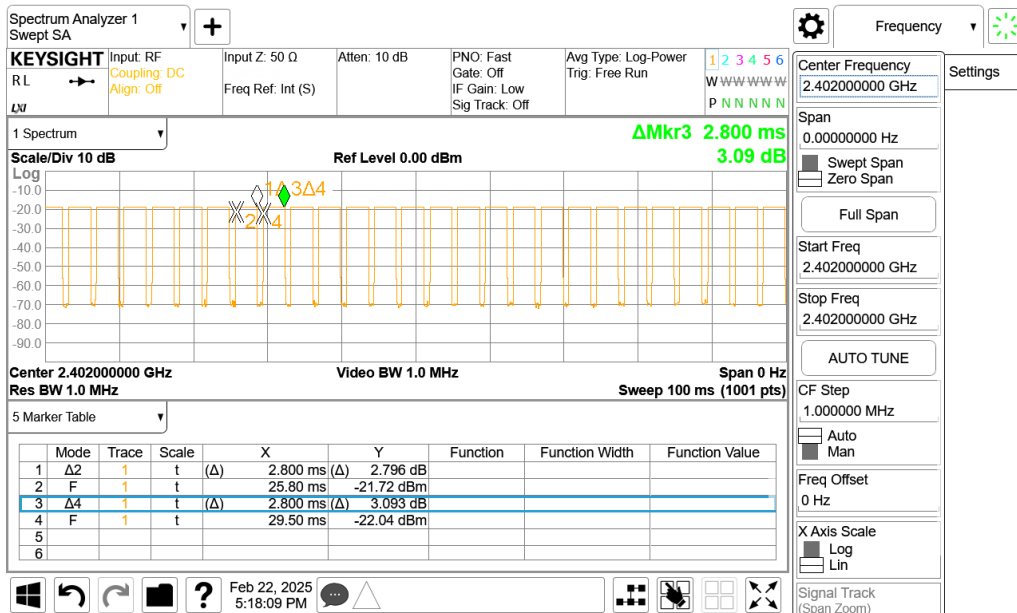
f (886-2) 2298-0488

www.sgs.com.tw

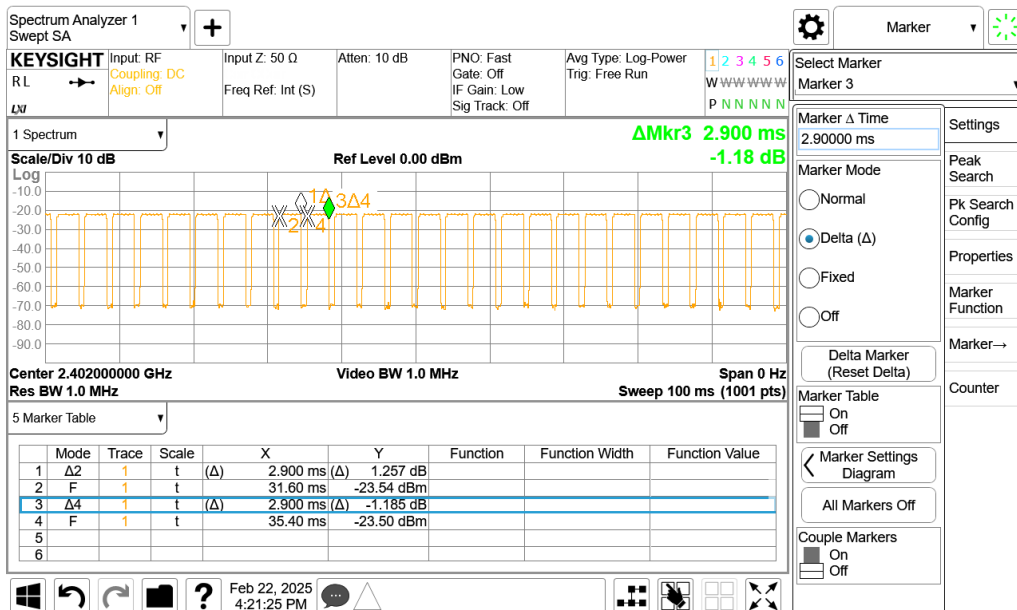
Member of SGS Group

Model: C505

BR



EDR



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8.6.3 Bandedge Result

Model: C305

Report Number :TERF2501000049E2

Operation Mode :BR

Test Frequency :2402 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

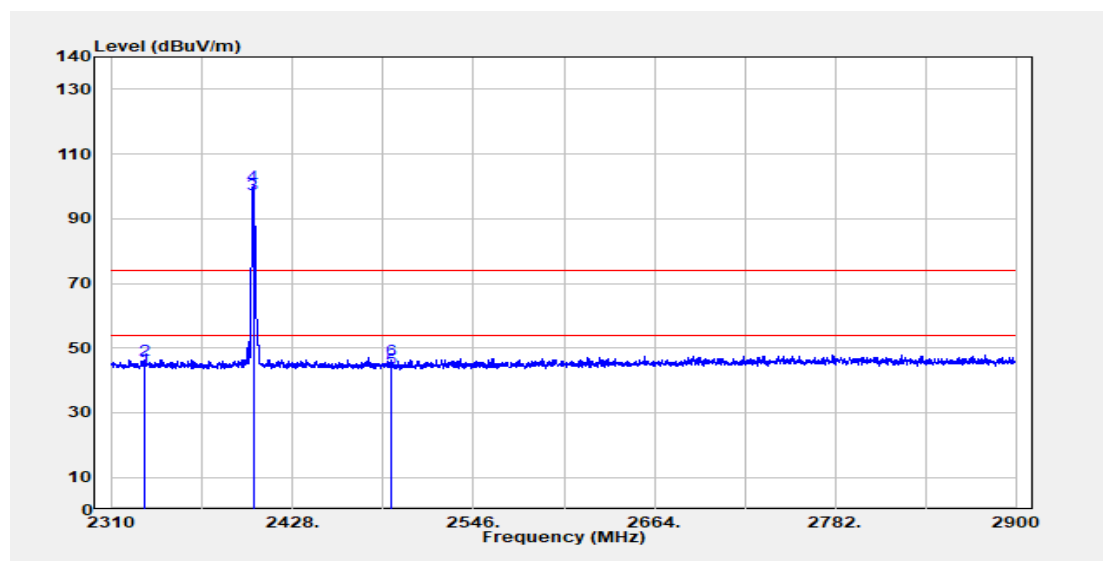
Test Site :SAC G Chamber

Test Date :2025-02-22

Temp./Humi. :22.8°C/48%

Antenna Pol. :Vertical

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
2331.44	Average	-	-	43.70	54.00	-10.30
2331.44	Peak	49.66	-3.20	46.46	74.00	-27.54
2402.00	Average	-	-	97.52	-	-
2402.00	Peak	103.51	-3.23	100.28	-	-
2492.17	Average	-	-	43.61	54.00	-10.39
2492.17	Peak	49.75	-3.38	46.37	74.00	-27.63

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

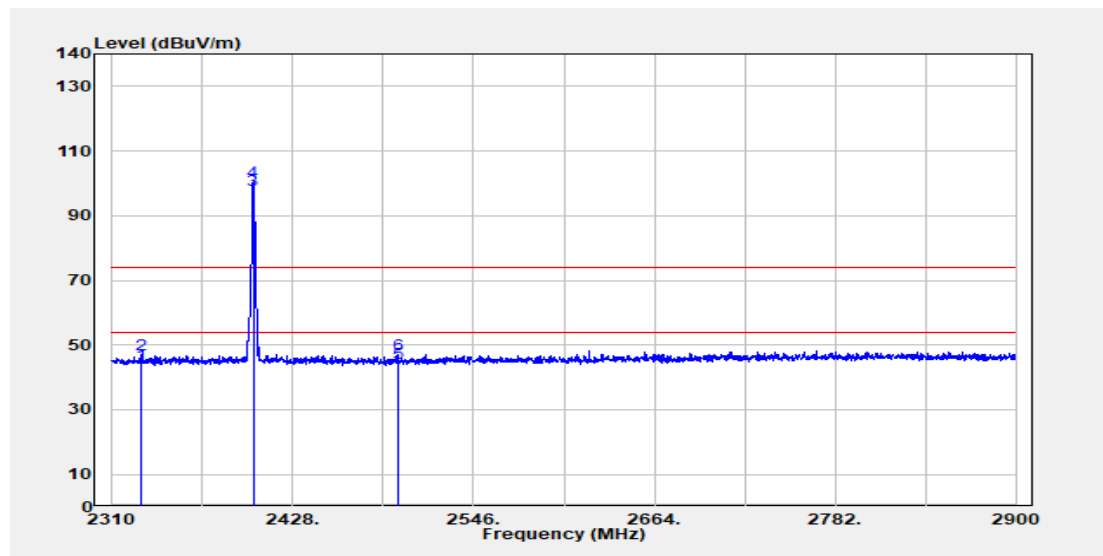
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Report Number :TERF2501000049E2
Operation Mode :BR
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :22.8°C/48%
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
2328.49	Average	-	-	44.11	54.00	-9.89
2328.49	Peak	50.05	-3.19	46.86	74.00	-27.14
2402.00	Average	-	-	97.81	-	-
2402.00	Peak	103.80	-3.23	100.57	-	-
2496.31	Average	-	-	44.42	54.00	-9.58
2496.31	Peak	50.55	-3.37	47.18	74.00	-26.82

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2

Operation Mode :BR

Test Frequency :2480 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

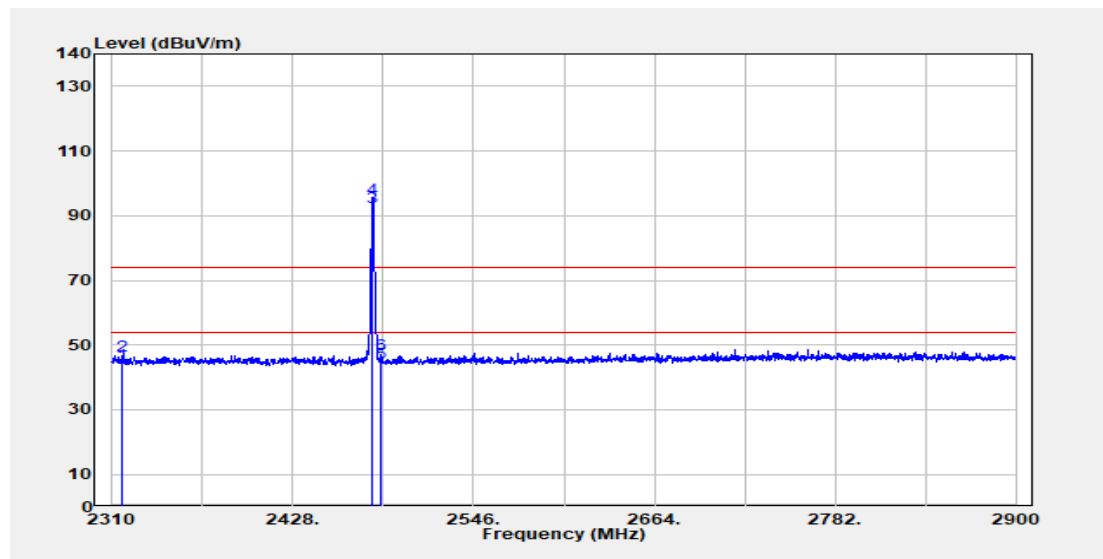
Test Site :SAC G Chamber

Test Date :2025-02-22

Temp./Humi. :22.8°C/48%

Antenna Pol. :Vertical

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
2316.89	Average	-	-	43.96	54.00	-10.04
2316.89	Peak	49.90	-3.18	46.72	74.00	-27.28
2480.00	Average	-	-	92.43	-	-
2480.00	Peak	98.56	-3.37	95.19	-	-
2485.88	Average	-	-	44.43	54.00	-9.57
2485.88	Peak	50.55	-3.37	47.18	74.00	-26.82

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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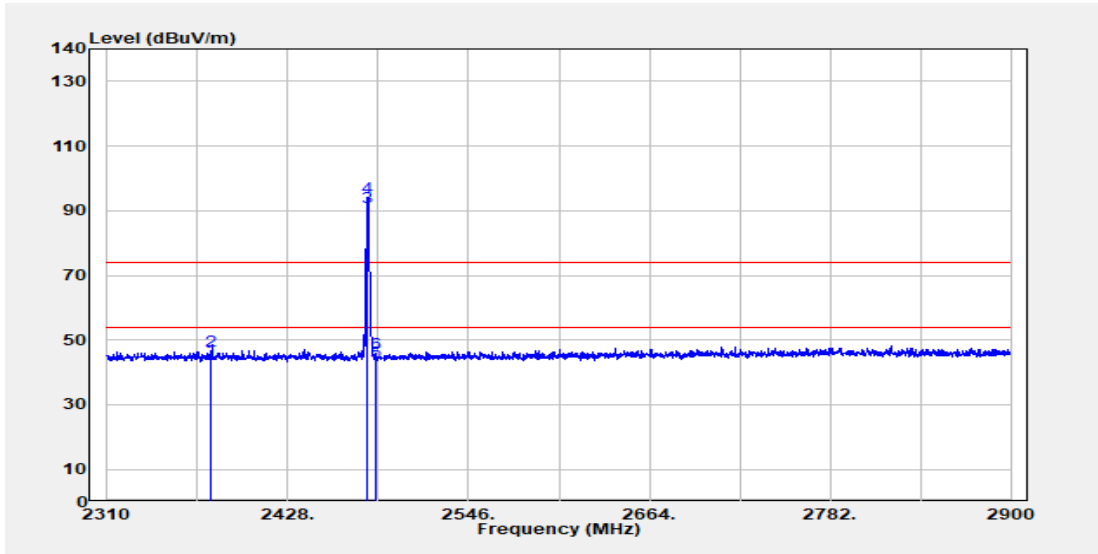
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Member of SGS Group

Report Number :TERF2501000049E2
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 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
2378.07	Average	-	-	43.84	54.00	-10.16
2378.07	Peak	49.83	-3.24	46.59	74.00	-27.41
2480.00	Average	-	-	91.15	-	-
2480.00	Peak	97.28	-3.37	93.91	-	-
2485.09	Average	-	-	43.14	54.00	-10.86
2485.09	Peak	49.27	-3.37	45.90	74.00	-28.10

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2

Operation Mode :EDR 3M

Test Frequency :2402 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

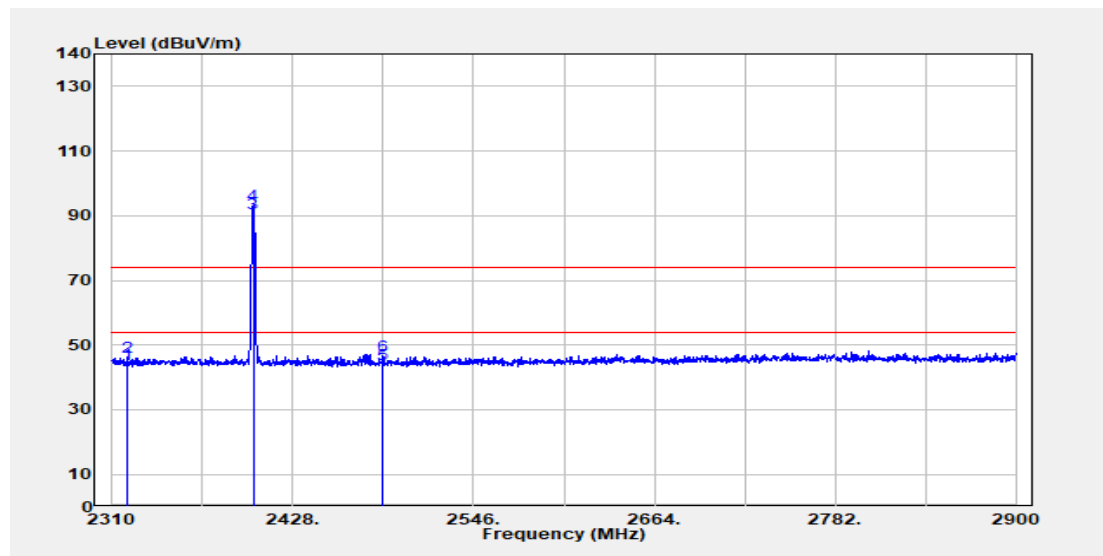
Test Site :SAC G Chamber

Test Date :2025-02-22

Temp./Humi. :22.8°C/48%

Antenna Pol. :Vertical

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
2319.84	Average	-	-	43.95	54.00	-10.05
2319.84	Peak	49.61	-3.21	46.40	74.00	-27.60
2402.00	Average	-	-	90.70	-	-
2402.00	Peak	96.38	-3.23	93.15	-	-
2486.86	Average	-	-	44.08	54.00	-9.92
2486.86	Peak	49.91	-3.37	46.54	74.00	-27.46

Average Duty Cycle Factor=-2.452 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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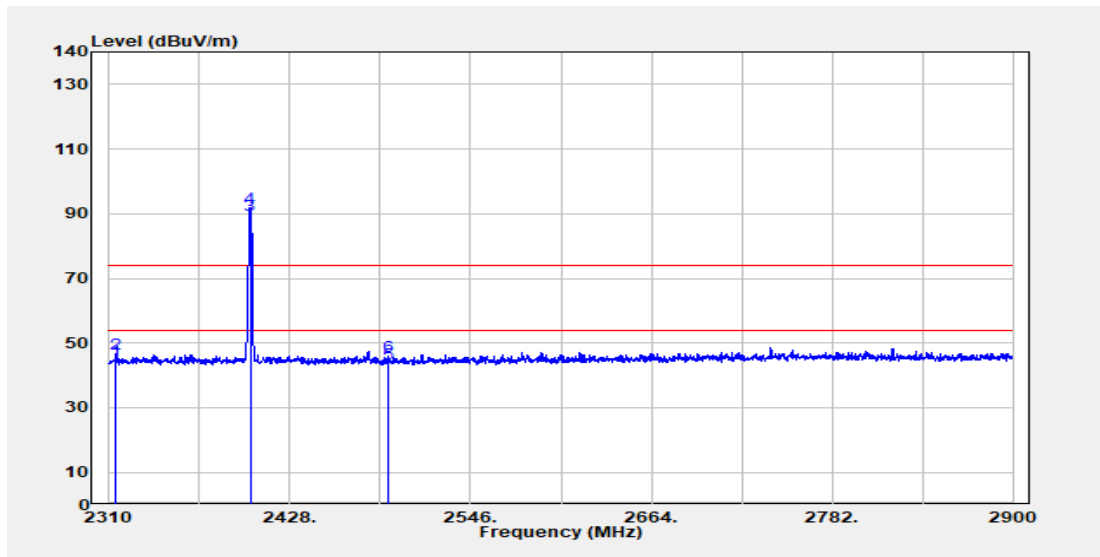
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Report Number :TERF2501000049E2
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 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
2314.33	Average	-	-	44.34	54.00	-9.66
2314.33	Peak	49.94	-3.15	46.79	74.00	-27.21
2402.00	Average	-	-	89.46	-	-
2402.00	Peak	95.15	-3.23	91.92	-	-
2492.17	Average	-	-	43.53	54.00	-10.47
2492.17	Peak	49.36	-3.38	45.98	74.00	-28.02

Average Duty Cycle Factor=-2.452 (dB)

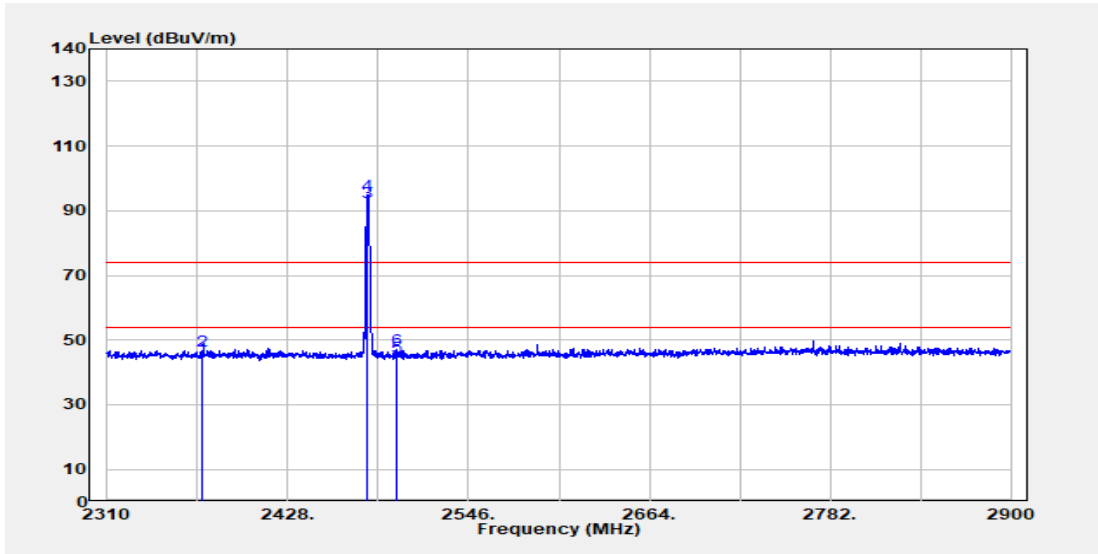
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 Antenna Pol. :Vertical
 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
2372.17	Average	-	-	44.29	54.00	-9.71
2372.17	Peak	49.99	-3.25	46.74	74.00	-27.26
2480.00	Average	-	-	92.53	-	-
2480.00	Peak	98.35	-3.37	94.98	-	-
2498.47	Average	-	-	44.76	54.00	-9.24
2498.47	Peak	50.59	-3.38	47.21	74.00	-26.79

Average Duty Cycle Factor=-2.452 (dB)

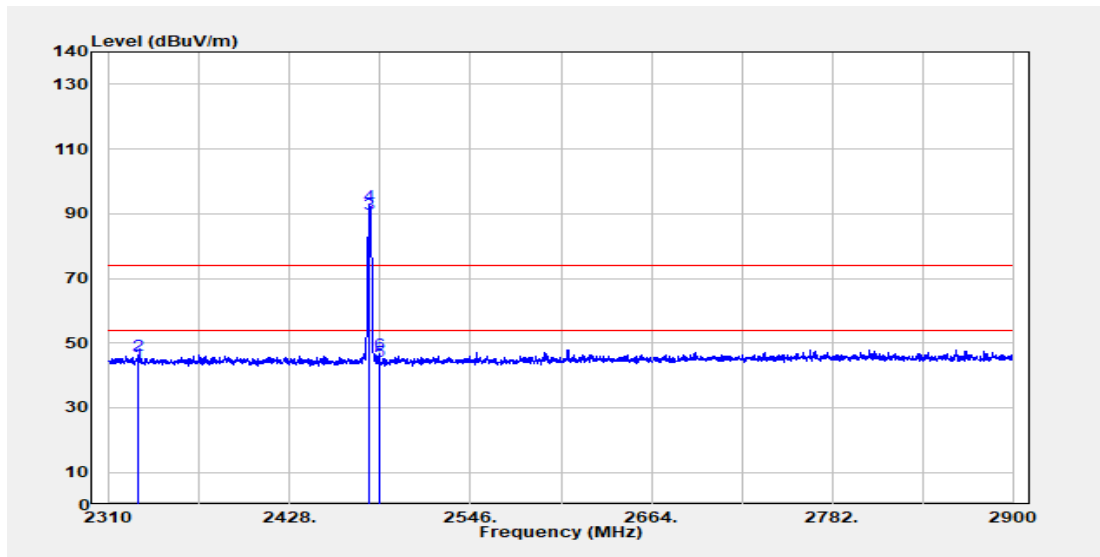
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 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
2329.08	Average	-	-	43.76	54.00	-10.24
2329.08	Peak	49.40	-3.19	46.21	74.00	-27.79
2480.00	Average	-	-	89.97	-	-
2480.00	Peak	95.80	-3.37	92.43	-	-
2486.08	Average	-	-	44.29	54.00	-9.71
2486.08	Peak	50.12	-3.37	46.75	74.00	-27.25

Average Duty Cycle Factor=-2.452 (dB)

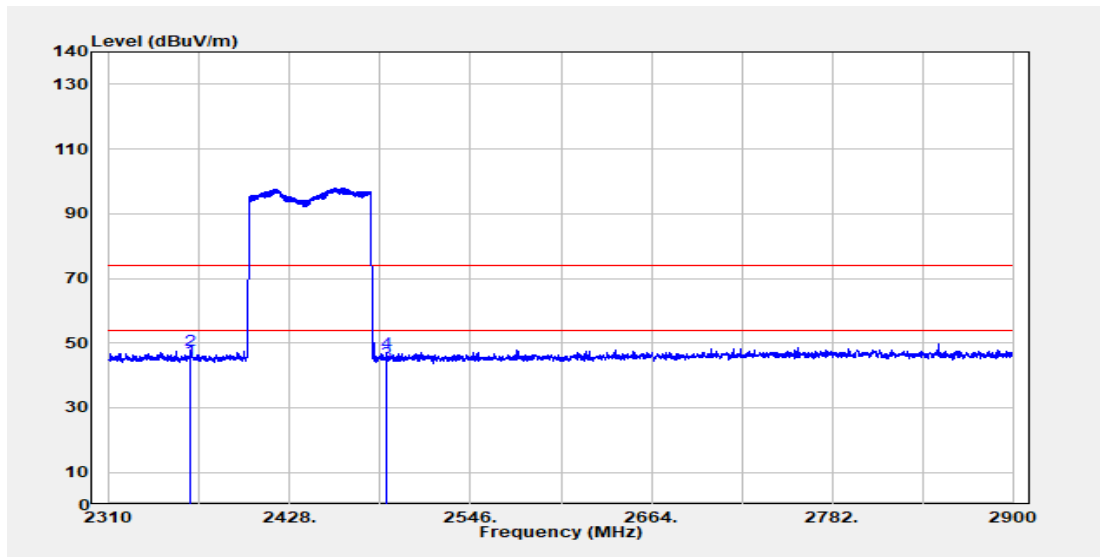
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
Operation Mode :BR Hopping
Test Frequency :2402~2480 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :22.8°C/48%
Antenna Pol. :Vertical
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
2363.12	Average	-	-	44.90	54.00	-9.10
2363.12	Peak	50.84	-3.18	47.66	74.00	-26.34
2491.39	Average	-	-	44.16	54.00	-9.84
2491.39	Peak	50.30	-3.38	46.92	74.00	-27.08

Average Duty Cycle Factor=-2.757 (dB)

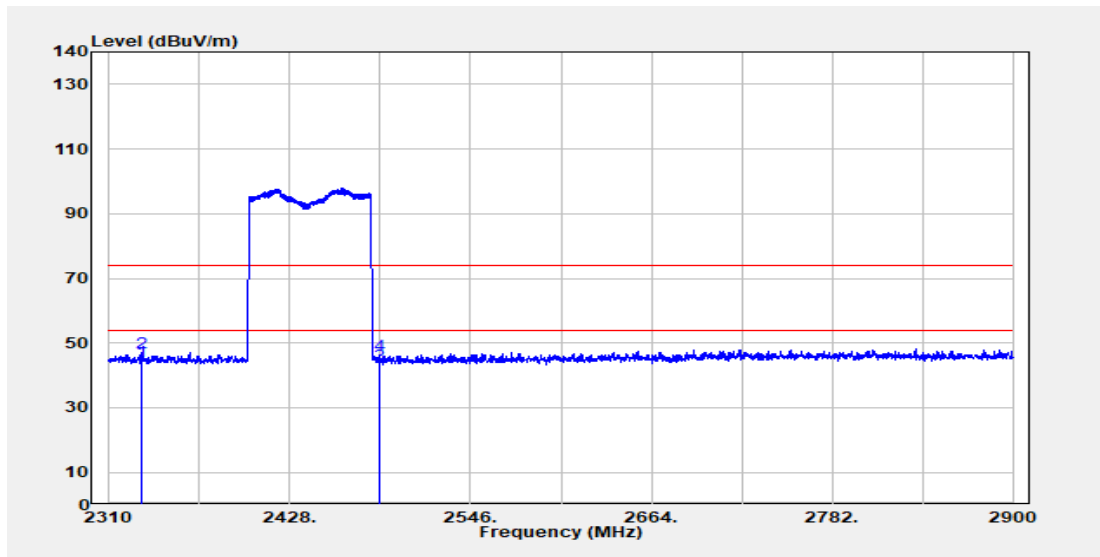
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
 Operation Mode :BR Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 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
2330.66	Average	-	-	44.30	54.00	-9.70
2330.66	Peak	50.26	-3.20	47.06	74.00	-26.94
2486.47	Average	-	-	43.38	54.00	-10.62
2486.47	Peak	49.50	-3.37	46.13	74.00	-27.87

Average Duty Cycle Factor=-2.757 (dB)

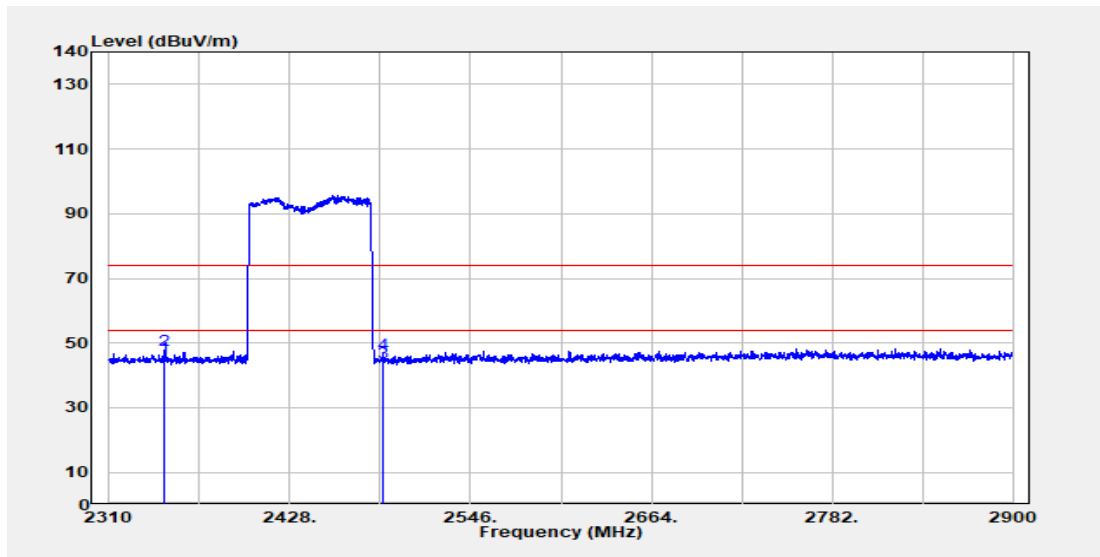
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 Antenna Pol. :Vertical
 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
2346.00	Average	-	-	45.41	54.00	-8.59
2346.00	Peak	51.04	-3.18	47.86	74.00	-26.14
2489.22	Average	-	-	44.12	54.00	-9.88
2489.22	Peak	49.95	-3.37	46.58	74.00	-27.42

Average Duty Cycle Factor=-2.452 (dB)

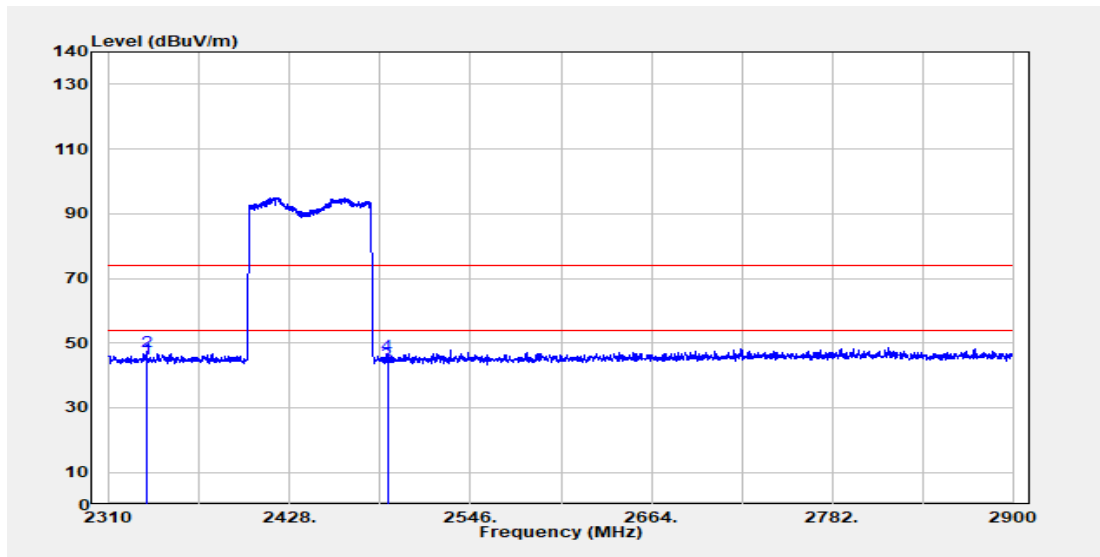
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
 Operation Mode :EDR 3M Hopping
 Test Frequency :2402~2480 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 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
2334.00	Average	-	-	44.97	54.00	-9.03
2334.00	Peak	50.61	-3.19	47.42	74.00	-26.58
2491.58	Average	-	-	43.75	54.00	-10.25
2491.58	Peak	49.59	-3.38	46.21	74.00	-27.79

Average Duty Cycle Factor=-2.452 (dB)

Average Level= Peak Level+ Duty Cycle Factor

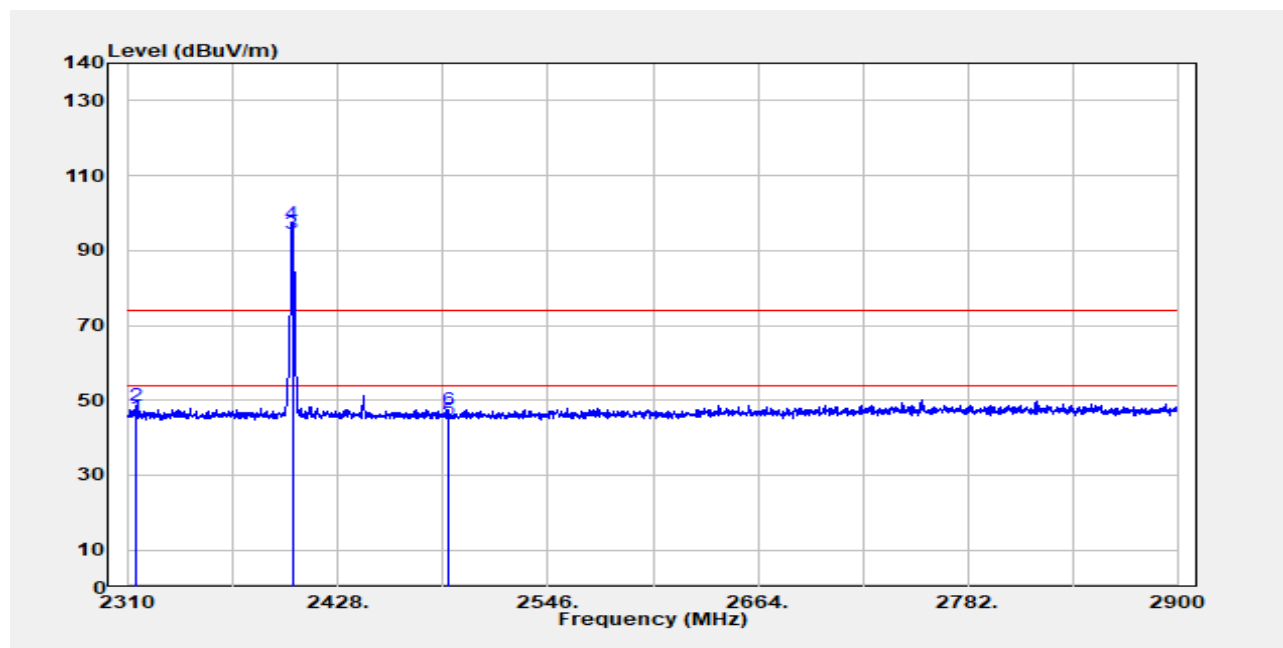
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Model: C505

Report Number :TERF2501000049E2
Operation Mode :BR
Test Frequency :2402 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :22.8°C/48%
Antenna Pol. :Vertical
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
2313.74	Average	-	-	45.68	54.00	-8.32
2313.74	Peak	51.59	-3.15	48.44	74.00	-25.56
2402.00	Average	-	-	94.56	-	-
2402.00	Peak	100.54	-3.23	97.31	-	-
2489.42	Average	-	-	44.77	54.00	-9.23
2489.42	Peak	50.90	-3.37	47.53	74.00	-26.47

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

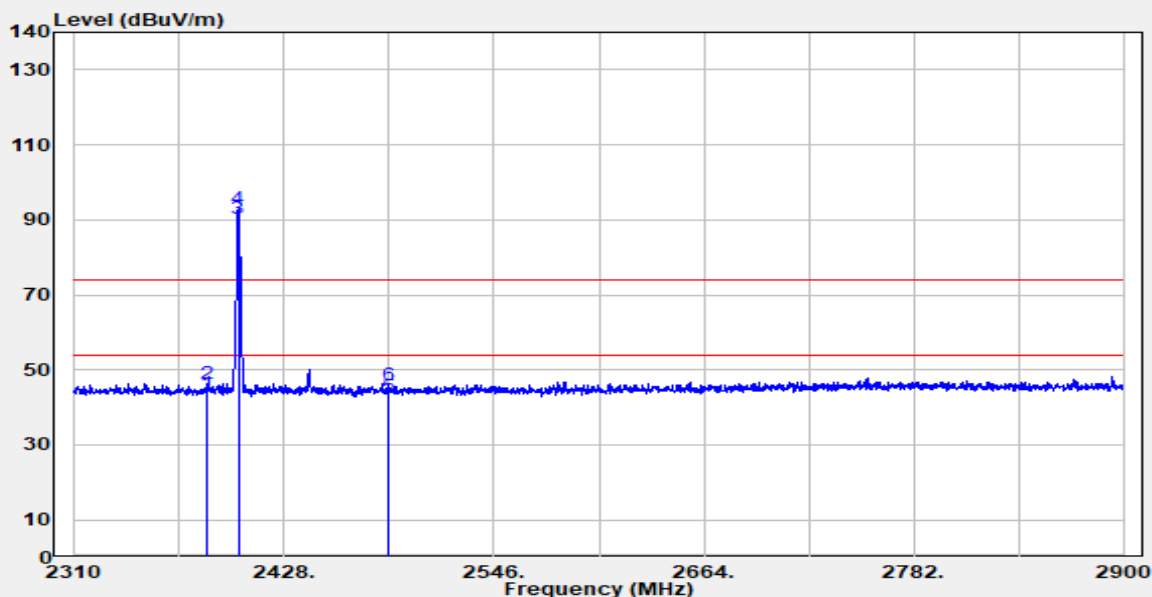
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Report Number :TERF2501000049E2
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :22.8°C/48%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2384.17	Average	-	-	43.71	54.00	-10.29
2384.17	Peak	49.65	-3.19	46.46	74.00	-27.54
2402.00	Average	-	-	90.33	-	-
2402.00	Peak	96.31	-3.23	93.08	-	-
2486.67	Average	-	-	43.03	54.00	-10.97
2486.67	Peak	49.16	-3.37	45.79	74.00	-28.21

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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8.6.4 Radiated Spurious Emission

Model: C305

Report Number :TERF2501000049E2

Operation Mode :BR

Test Frequency :2441 MHz

Test Mode :Tx

EUT Pol :E2 Plane

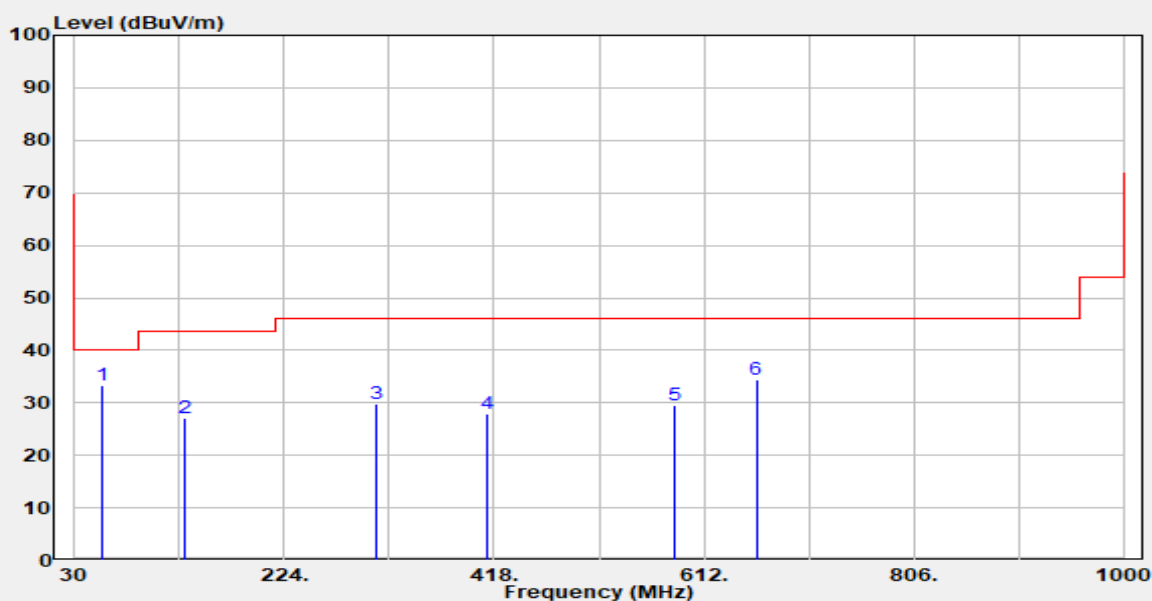
Test Site :SAC G Chamber

Test Date :2025-02-23

Temp./Humi. :21.8°C/54%

Antenna Pol. :Vertical

Engineer :Temo Chen



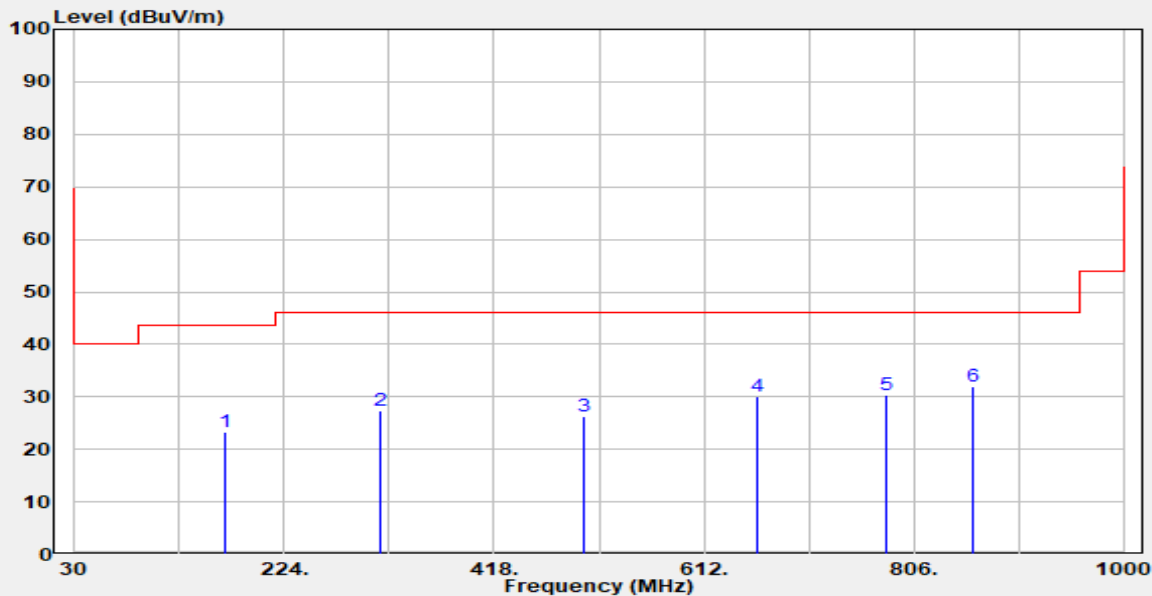
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	45.94	-12.68	33.26	40.00	-6.74
131.85	Peak	41.60	-14.40	27.20	43.50	-16.30
308.39	Peak	41.49	-11.61	29.88	46.00	-16.12
412.18	Peak	37.07	-9.27	27.80	46.00	-18.20
584.84	Peak	35.08	-5.41	29.67	46.00	-16.33
660.50	Peak	38.26	-3.86	34.40	46.00	-11.60

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Report Number :TERF2501000049E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-23
 Temp./Humi. :21.8°C/54%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



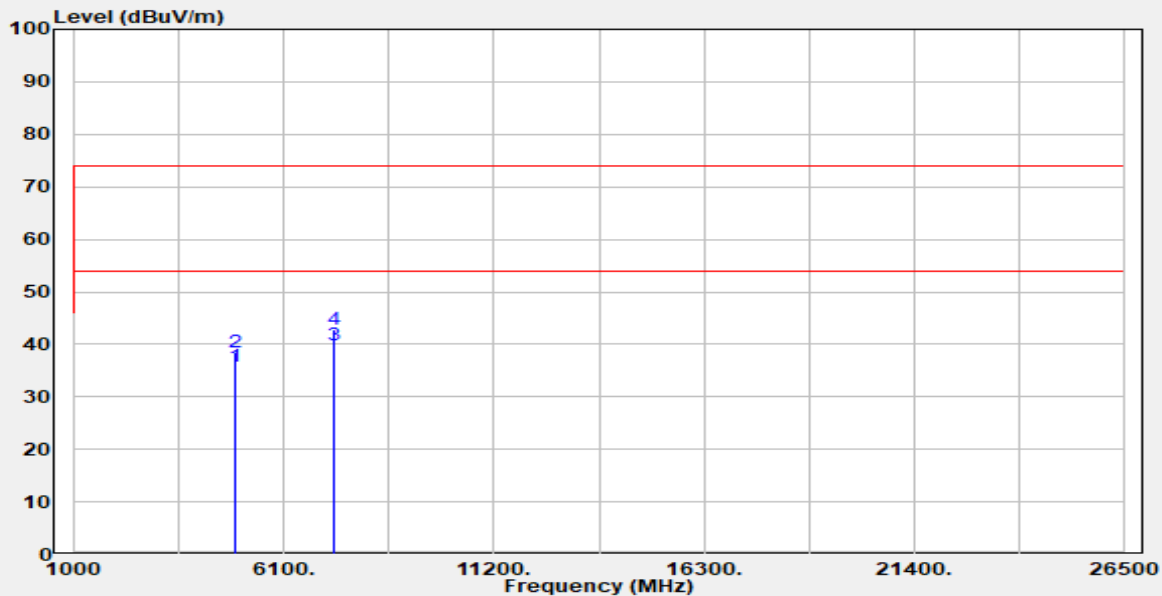
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
168.71	Peak	36.55	-13.28	23.27	43.50	-20.23
312.27	Peak	38.87	-11.49	27.38	46.00	-18.62
500.45	Peak	33.30	-7.12	26.18	46.00	-19.82
661.47	Peak	33.86	-3.86	30.00	46.00	-16.00
780.78	Peak	31.95	-1.69	30.26	46.00	-15.74
860.32	Peak	32.80	-0.84	31.96	46.00	-14.04

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Report Number :TERF2501000049E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :21.8°C/54%
 Antenna Pol. :Vertical
 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	Average	-	-	35.70	54.00	-18.30
4882.00	Peak	34.60	3.85	38.45	74.00	-35.55
7323.00	Average	-	-	39.94	54.00	-14.06
7323.00	Peak	33.01	9.68	42.69	74.00	-31.31

Average Duty Cycle Factor=-2.757 (dB)

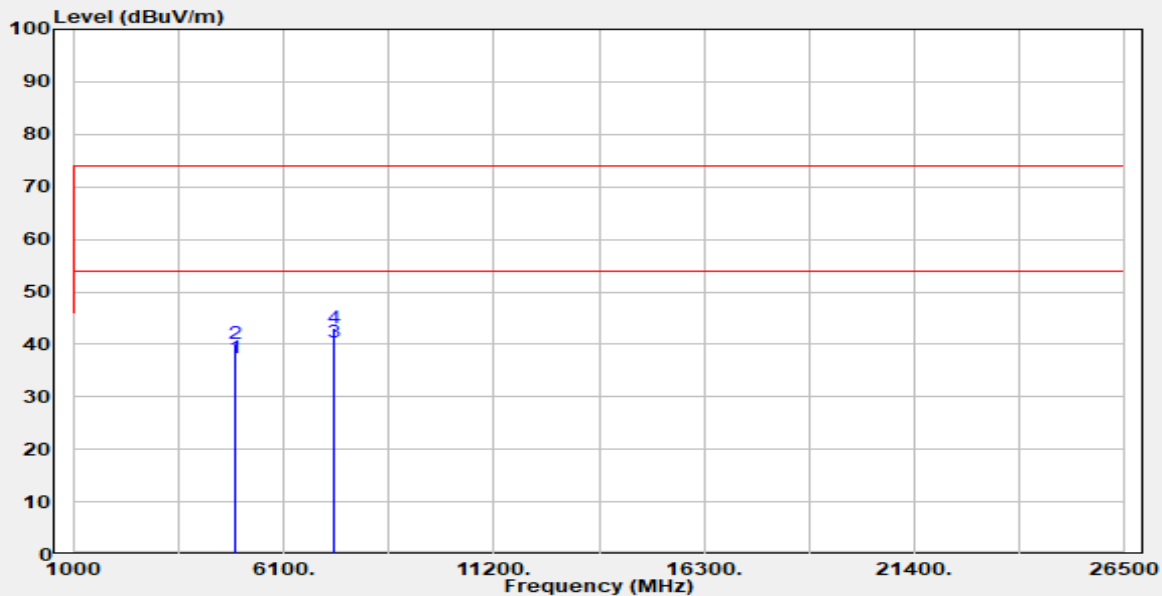
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2501000049E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-22
 Temp./Humi. :21.8°C/54%
 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	Average	-	-	37.41	54.00	-16.59
4882.00	Peak	36.31	3.85	40.16	74.00	-33.84
7323.00	Average	-	-	40.47	54.00	-13.53
7323.00	Peak	33.54	9.68	43.22	74.00	-30.78

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

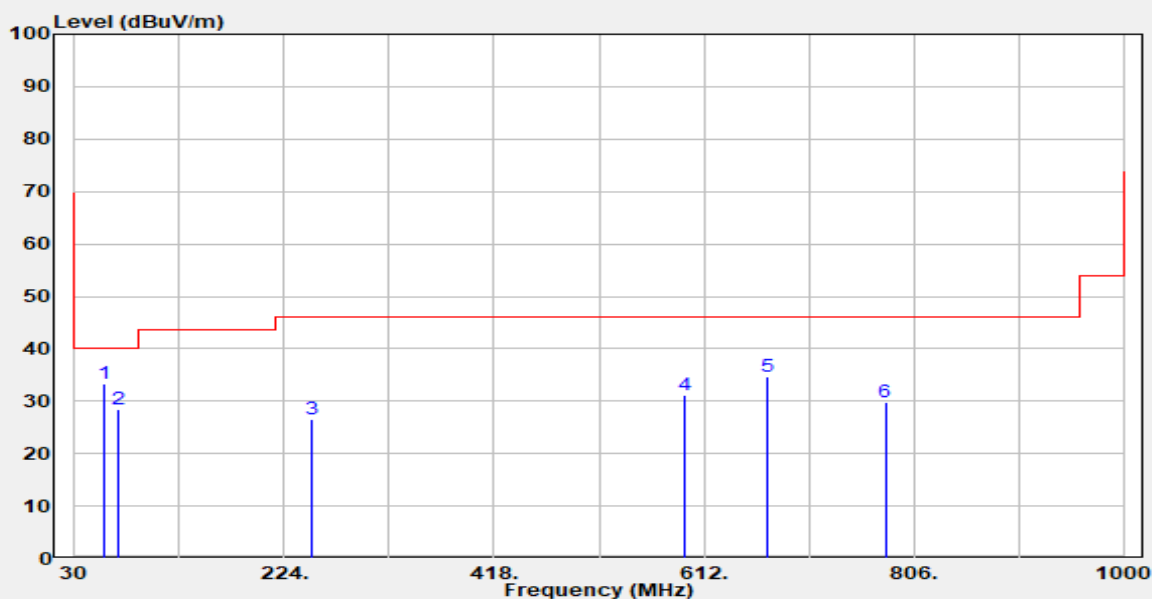
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Model: C505

Report Number :TERF2501000049E2
Operation Mode :BR
Test Frequency :2441 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-23
Temp./Humi. :21.8°C/54%
Antenna Pol. :Vertical
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
57.16	Peak	46.17	-12.72	33.45	40.00	-6.55
70.74	Peak	43.39	-15.03	28.36	40.00	-11.64
250.19	Peak	40.47	-13.88	26.59	46.00	-19.41
594.54	Peak	36.32	-5.17	31.15	46.00	-14.85
671.17	Peak	38.36	-3.76	34.60	46.00	-11.40
779.81	Peak	31.48	-1.69	29.79	46.00	-16.21

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Report Number :TERF2501000049E2

Operation Mode :BR

Test Frequency :2441 MHz

Test Mode :Tx

EUT Pol :E2 Plane

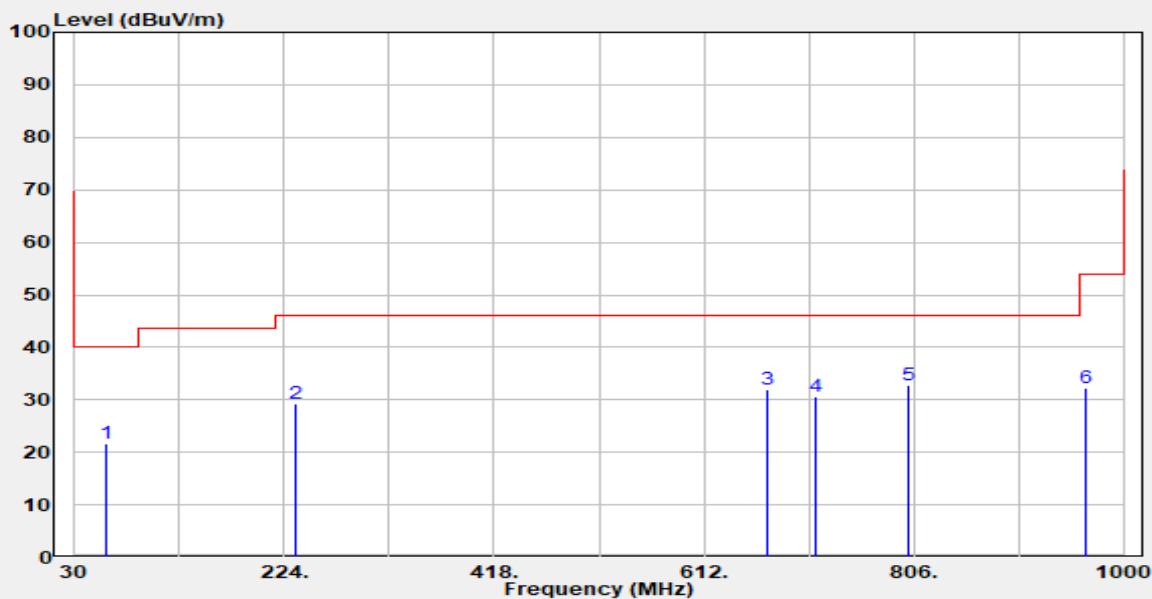
Test Site :SAC G Chamber

Test Date :2025-02-23

Temp./Humi. :21.8°C/54%

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
59.10	Peak	34.87	-13.06	21.81	40.00	-18.19
234.67	Peak	43.95	-14.79	29.16	46.00	-16.84
671.17	Peak	35.68	-3.76	31.92	46.00	-14.08
715.79	Peak	33.64	-3.00	30.64	46.00	-15.36
801.15	Peak	34.31	-1.53	32.78	46.00	-13.22
966.05	Peak	31.41	0.75	32.16	54.00	-21.84

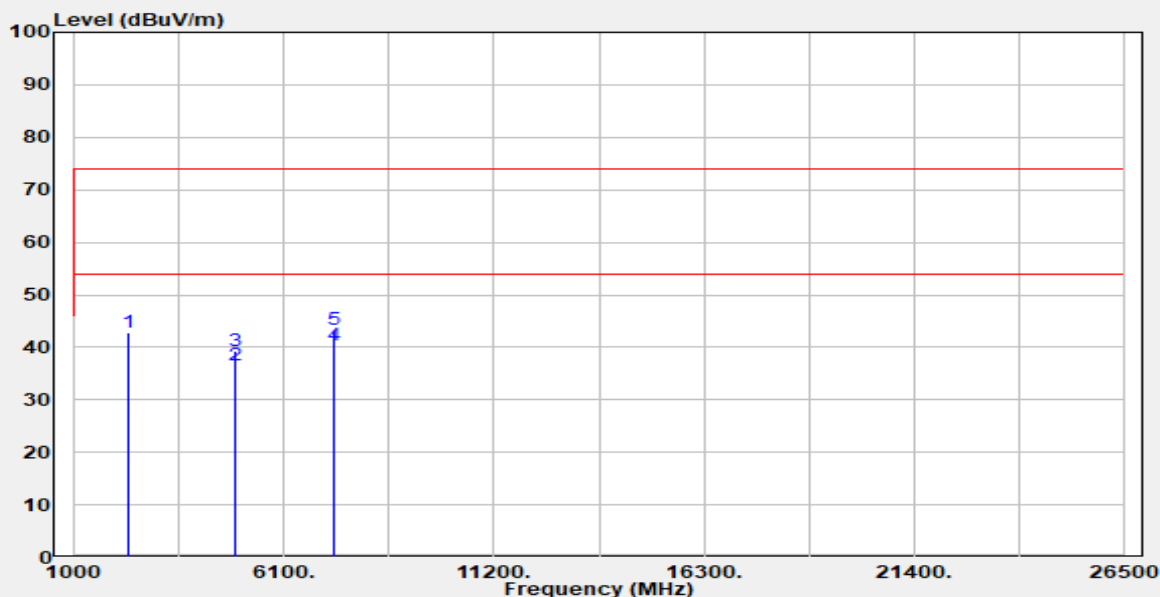
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Report Number :TERF2501000049E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2025-02-24
 Temp./Humi. :21.8°C/54%
 Antenna Pol. :Vertical
 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
2313.74	Average	-	-	42.92	54.00	-11.08
4882.00	Average	-	-	36.54	54.00	-17.46
4882.00	Peak	35.45	3.85	39.30	74.00	-34.70
7323.00	Average	-	-	40.49	54.00	-13.51
7323.00	Peak	33.57	9.68	43.25	74.00	-30.75

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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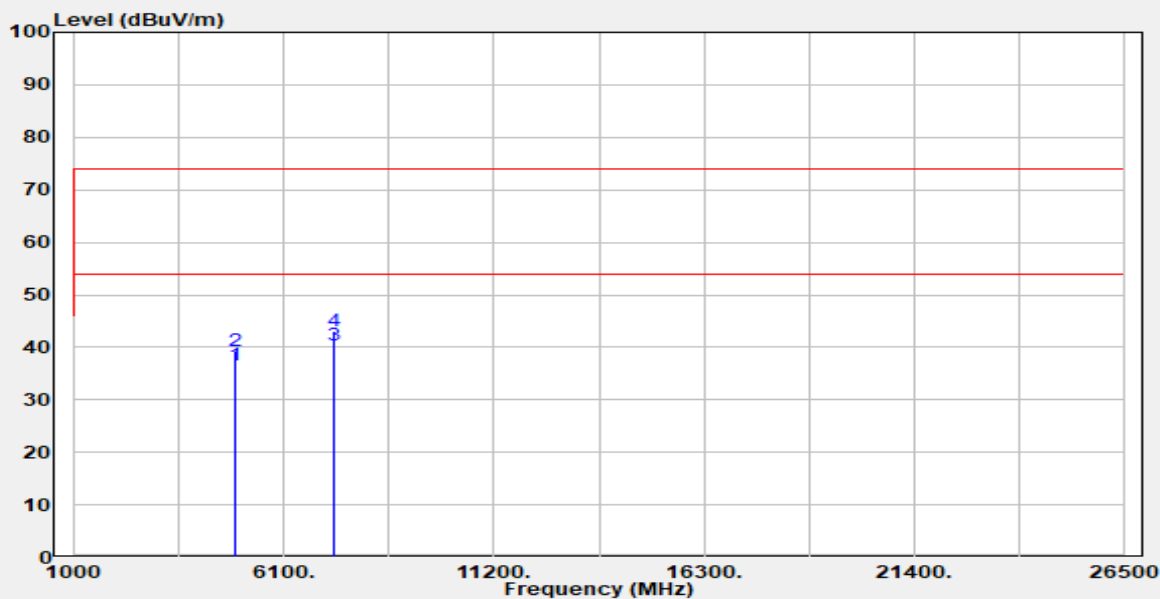
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Report Number :TERF2501000049E2
Operation Mode :BR
Test Frequency :2441 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2025-02-22
Temp./Humi. :21.8°C/54%
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4882.00	Average	-	-	36.59	54.00	-17.41
4882.00	Peak	35.50	3.85	39.35	74.00	-34.65
7323.00	Average	-	-	40.38	54.00	-13.62
7323.00	Peak	33.45	9.68	43.13	74.00	-30.87

Average Duty Cycle Factor=-2.757 (dB)

Average Level= Peak Level+ Duty Cycle Factor

~ End of Report ~

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