

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description:** ClickShare  
**Applicant:** Barco NV  
President Kennedypark 35 8500 Kortrijk Belgium  
**Manufacturer:** Barco NV  
President Kennedypark 35 8500 Kortrijk Belgium  
**Brand Name:** Barco  
**Model No.:** CSBTN005  
**Report Number:** TERF2505001670ER  
**FCC ID** 2AAED-CSBTN005  
**Date of EUT Received:** N/A, the test results are fully leveraged from test report number TERF2505001677ER, for more details please refer to section 3 in this report.  
**Date of Test:** N/A, the test results are fully leveraged from test report number TERF2505001677ER, for more details please refer to section 3 in this report.  
**Issue Date:** June 25, 2025

Approved By

Jim Chang

## We hereby certify that:

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

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

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2505001670ER	00	Original	June 25, 2025	Susan Lin	

**Note:**

- 1、The remark "" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

EUT Description:	ClickShare
Brand Name:	Barco
Model No.:	CSBTN005
Hardware Version:	Barco_Furitesse_DVT2_PLS0000000061_20250214_1
Firmware Version:	5.15.47-mtk+g-usi-v2.4-87e4e4a45d60
EUT Series No.:	1200602574, 1200602535
Power Supply:	5 Vdc from USB port
Test Software (Name/Version):	QRCT/Version 4.0.211.0

### 1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	10.09 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$

### 1.3 Antenna Designation

Antenna Type	Supplier	Antenna No.	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	USI	ANT 1	US5990-12-002-C	2402-2480	2.45

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

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10:2013

## 1.5 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	
		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	TW3702
		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:	19-23	°C	Relative Humidity:	58-85	%
Test site	Conducted 2		Test Start:	05/14/2025	
Test Engineer:	Dannis Chen		Test Done:	06/12/2025	

## 1.6 Special Accessories

There is no special accessory used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 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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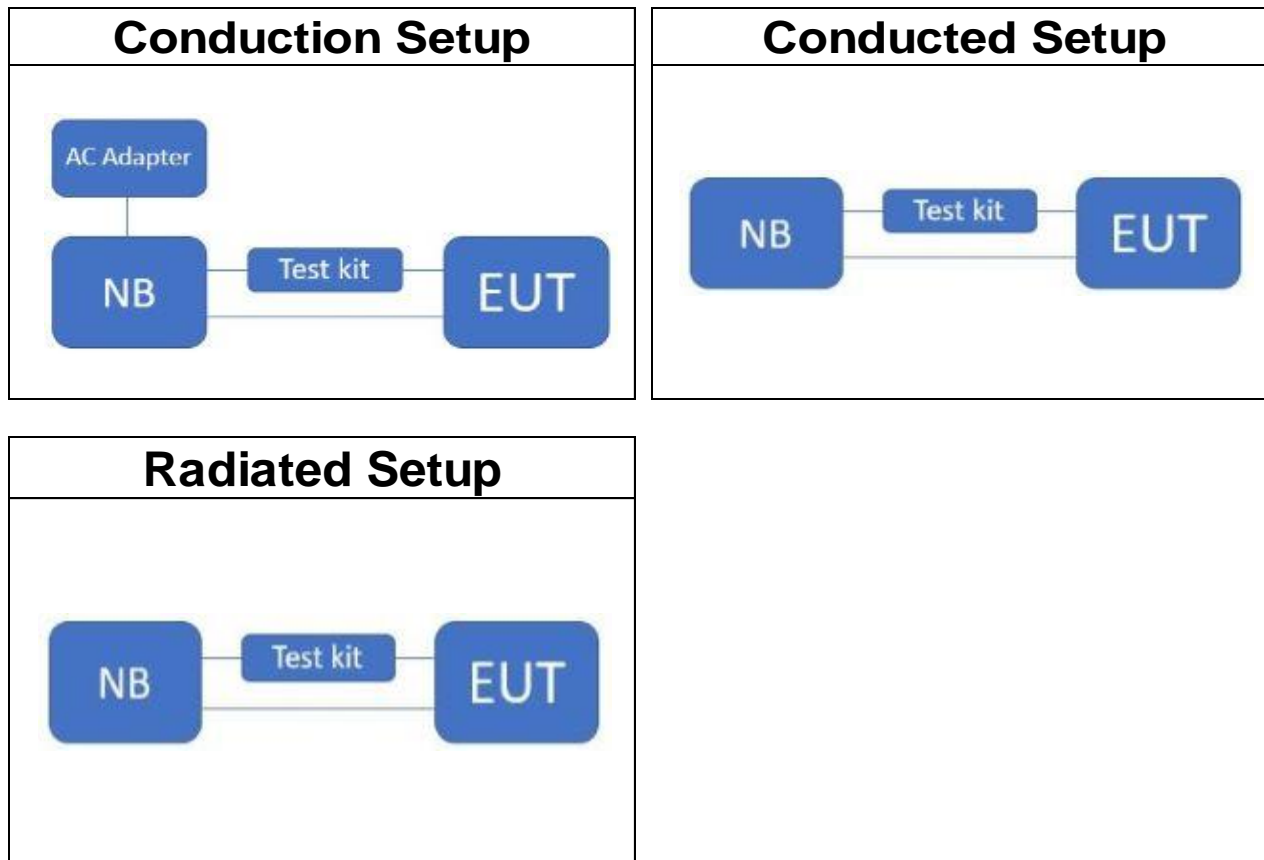
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## 2.5 Test Configuration



## 2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	FTDI	FTDI FT232RL	N/A	N/A	N/A
AC Adapter	HP	TPN-AA06	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test kit	FTDI	FTDI FT232RL	N/A	N/A	N/A
Notebook	Lenovo	L480	PF-1M4D8L 19-/03	N/A	N/A

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
Test Kit	FTDI	FTDI FT232RL	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	
§15.247(b)(1)	Peak Output Power	Compliant	
§15.247(a)(1)	Emission Bandwidth	Compliant	
§15.247(d) §15.209	Conducted Band Edge and Spurious Emission	Compliant	
§15.247(d) §15.209	Radiated Band Edge and Spurious Emission	Compliant	
§15.205	Restricted Bands	Compliant	
§15.247(a)(1)	Frequency Separation	Compliant	
§15.247(a)(1)(iii)	Number of hopping frequency Time of Occupancy	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 TERF2505001677ER.

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2400 ~ 2483.5MHz Band

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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## 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 radiated 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.

ANTNNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power, 20dB Band Width, Spurious Emission				
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
Band Edge				
Bluetooth	0 to 78	0,78	GFSK/ $\pi/4$ -DQPSK	DH5/2DH5
Frequency Separation				
Bluetooth	0 to 78	0,1,2, 38,39,40, 76,77,78	GFSK	DH5
			$\pi/4$ -DQPSK	2DH5
			8-DPSK	3DH5
Number of Hopping Frequency, Hopping Band edge				
Bluetooth	0 to 78	0 to 78	GFSK/ $\pi/4$ -DQPSK	DH5/2DH5
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
<b>TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)</b>				
Bluetooth	0 to 78	39	GFSK	DH5
<b>TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)</b>				
Bluetooth	0 to 78	0,39,78	GFSK, $\pi/4$ -DQPSK	DH5,2DH5

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
	+/-	4.1 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 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

### 6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025
Power Meter	Anritsu	ML2496A	2138003	10/09/2024	10/08/2025
Power Sensor	Anritsu	MA2411B	1911393	10/09/2024	10/08/2025
Power Sensor	Anritsu	MA2411B	1911394	10/09/2024	10/08/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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### 6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M2	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/ 4PEA+221106+760 96/6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	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 within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	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

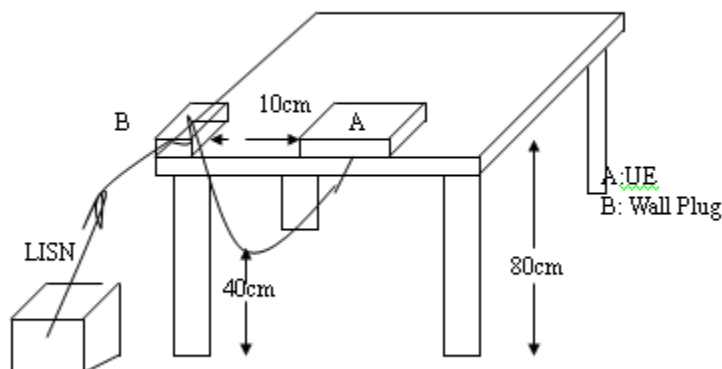
Note

- 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



### 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 frequency measured were complete.

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## 7.5 Measurement Result

Level = Read Level + Factor

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

Note: 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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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2505001677ER

Test Site :Conducttion 1

Operation Mode :BT

Test Date :2025-06-13

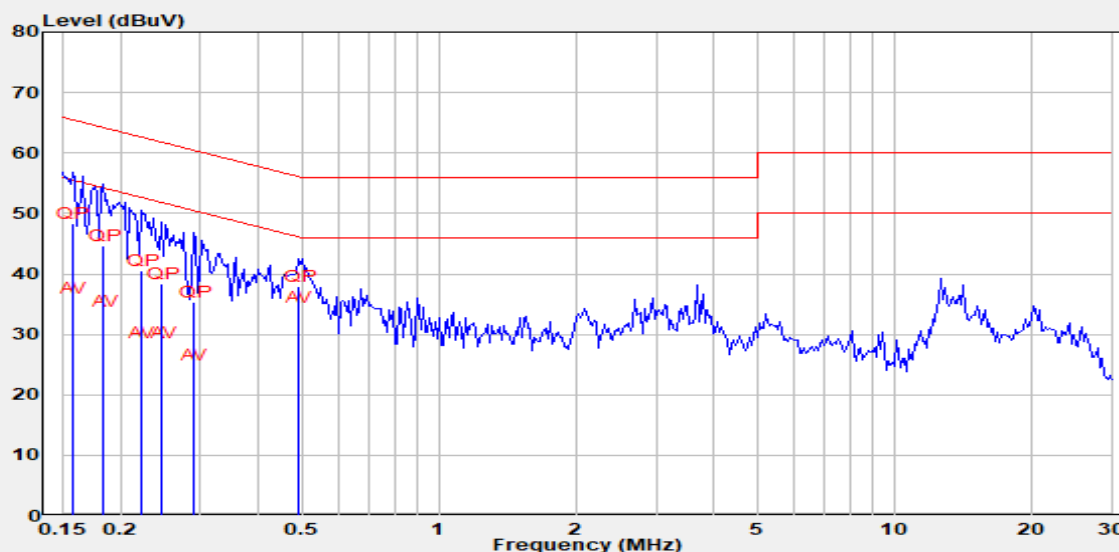
Power :120V/60Hz

Temp./Humi. :24.5°C/66%

Probe :L

Engineer :Nick Lin

Note: \_\_\_\_\_ :



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.156	Average	25.81	10.13	35.94	55.65	-19.71
0.156	QP	38.17	10.13	48.30	65.65	-17.35
0.183	Average	23.77	10.13	33.90	54.33	-20.43
0.183	QP	34.59	10.13	44.72	64.33	-19.61
0.222	Average	18.44	10.13	28.57	52.74	-24.17
0.222	QP	30.46	10.13	40.59	62.74	-22.15
0.247	Average	18.53	10.14	28.67	51.86	-23.20
0.247	QP	28.22	10.14	38.36	61.86	-23.51
0.289	Average	14.78	10.14	24.92	50.54	-25.62
0.289	QP	25.18	10.14	35.32	60.54	-25.22
0.491	Average	24.31	10.16	34.47	46.14	-11.67
0.491	QP	27.88	10.16	38.04	56.14	-18.10

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Report Number :TERF2505001677ER

Operation Mode :BT

Power :120V/60Hz

Probe :N

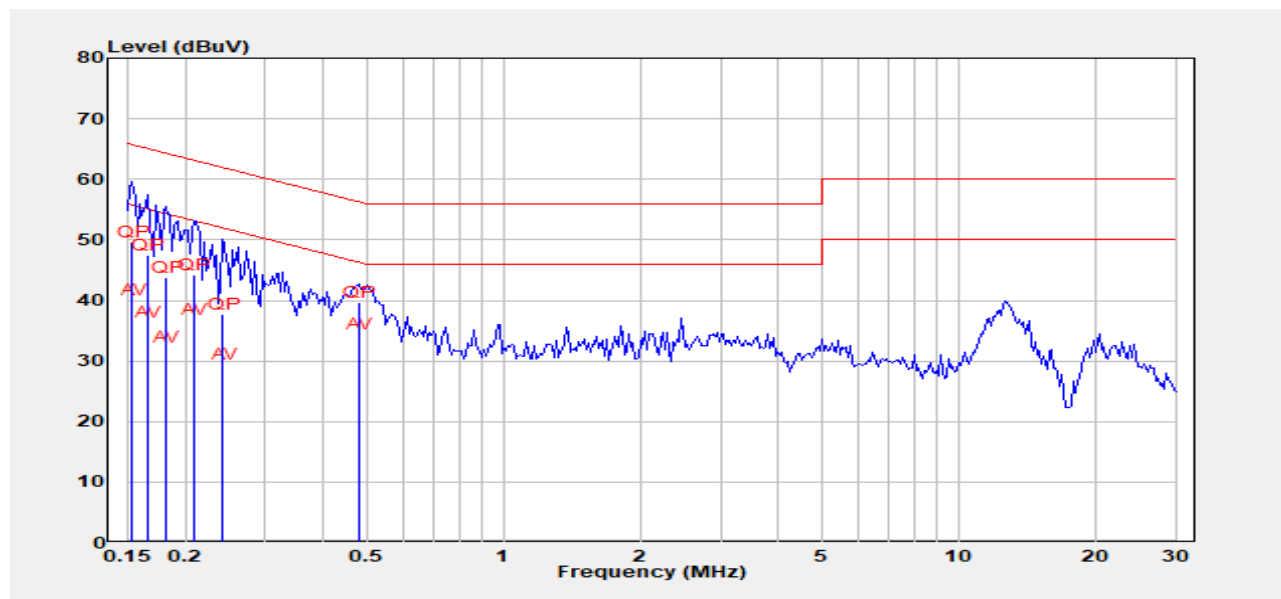
Note: :

Test Site :Conducttion 1

Test Date :2025-06-13

Temp./Humi. :24.5°C/66%

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBuV	dB	dBuV	dBuV	dB
0.153	Average	29.88	10.12	40.00	55.82	-15.82
0.153	QP	39.61	10.12	49.73	65.82	-16.09
0.165	Average	26.33	10.12	36.45	55.21	-18.76
0.165	QP	37.36	10.12	47.48	65.21	-17.73
0.182	Average	22.19	10.12	32.31	54.42	-22.11
0.182	QP	33.77	10.12	43.89	64.42	-20.53
0.208	Average	26.66	10.12	36.78	53.27	-16.49
0.208	QP	34.21	10.12	44.33	63.27	-18.94
0.242	Average	19.38	10.13	29.51	52.04	-22.53
0.242	QP	27.61	10.13	37.74	62.04	-24.30
0.481	Average	24.31	10.16	34.47	46.32	-11.85
0.481	QP	29.47	10.16	39.63	56.32	-16.69

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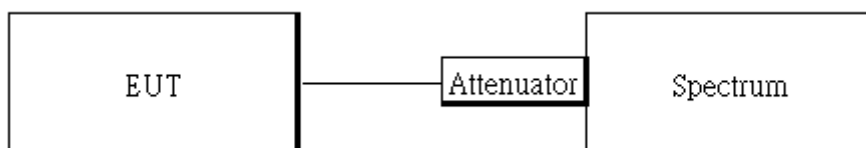
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## 8 FREQUENCY SEPARATION

### 8.1 Standard Applicable

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 8.2 Test Setup



### 8.3 Measurement Procedure

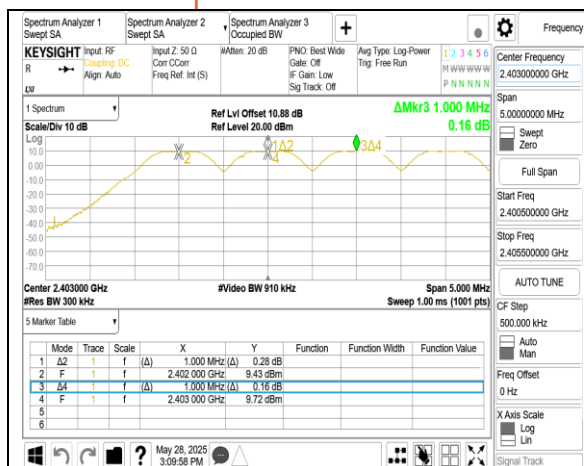
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the RBW approximately 30% of the channel spacing,  $VBW \geq RBW$ .
6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
7. Sweep = auto.
8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

### 8.4 Measurement Result

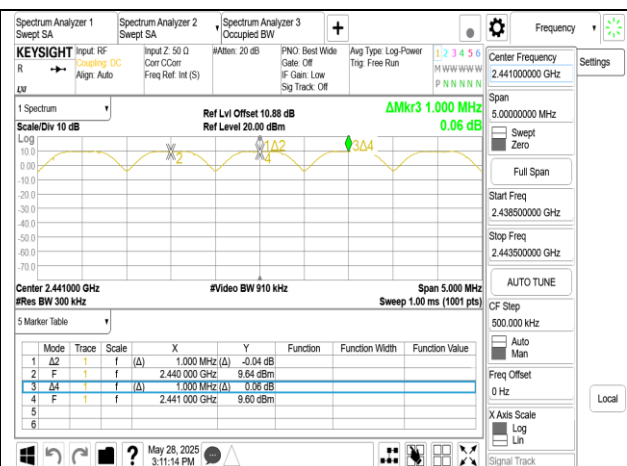
Channel separation (MHz)	Limit	Result
1	$\geq 25$ kHz or 2/3 times 20dB bandwidth	PASS

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GFSK 1M\_DH5\_CH0CH1CH2



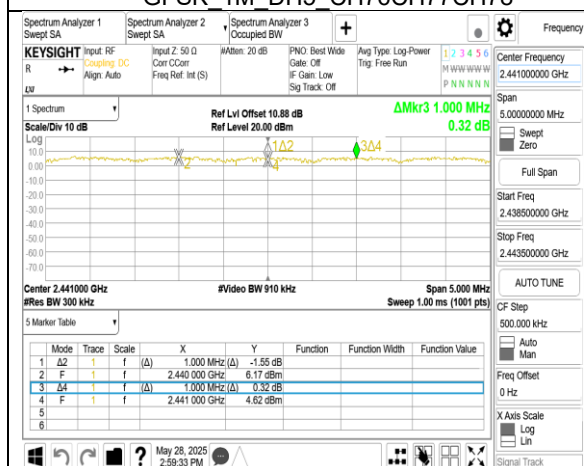
GFSK 1M\_DH5\_CH38CH39CH40



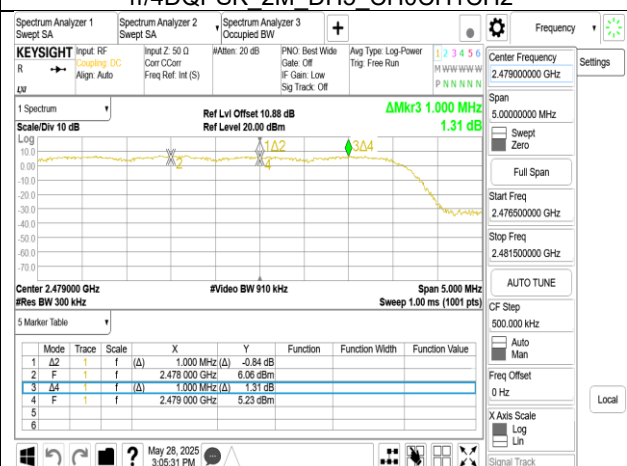
GFSK 1M\_DH5\_CH76CH77CH78



π/4DQPSK 2M\_DH5\_CH0CH1CH2



π/4DQPSK 2M\_DH5\_CH38CH39CH40



π/4DQPSK 2M\_DH5\_CH76CH77CH78

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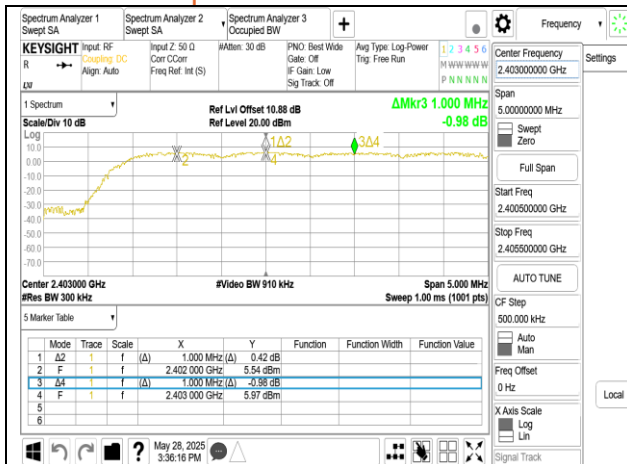
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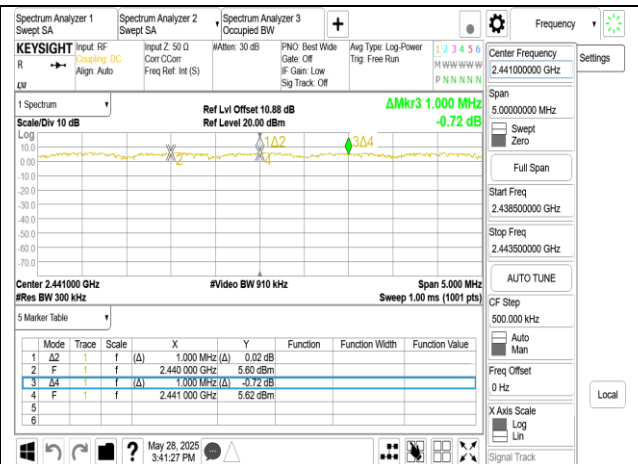
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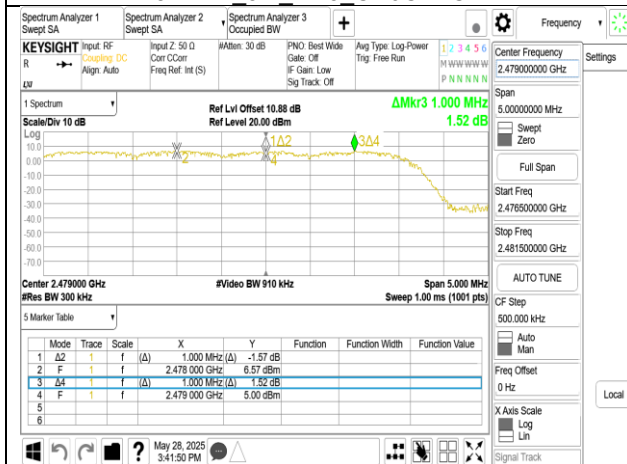
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8DPSK 3M\_DH5\_CH0CH1CH2



8DPSK 3M\_DH5\_CH38CH39CH40



8DPSK 3M\_DH5\_CH76CH77CH78

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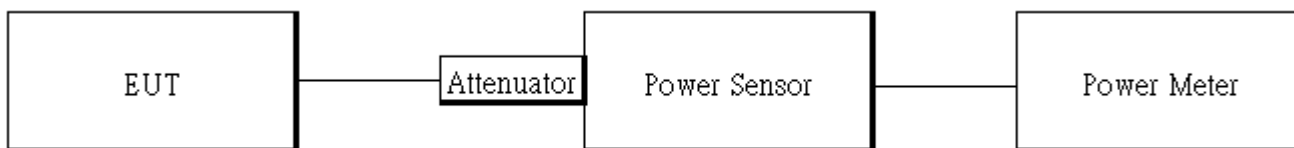
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## 9 PEAK OUTPUT POWER MEASUREMENT

### 9.1 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.

### 9.2 Test Setup



### 9.3 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 band-width)
5. Record the max. reading.
6. Repeat above procedures until all default test channel is completed.

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## 9.4 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	76.80	1.15
3DH5	76.80	1.15

1M BR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	10.07	10.162	1000
39	2441	10.01	10.023	1000
78	2480	<b>10.09</b>	10.209	1000

1M BR mode (Average):

CH	Freq. (MHz)	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	9.58	9.071	1000
39	2441	9.33	8.563	1000
78	2480	9.56	9.029	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	9.05	8.035	125
39	2441	8.98	7.907	125
78	2480	<b>9.06</b>	8.054	125

2M EDR mode (Average):

CH	Freq. (MHz)	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	5.99	3.969	125
39	2441	5.93	3.914	125
78	2480	5.96	3.941	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	9.02	7.980	125
39	2441	8.92	7.798	125
78	2480	<b>9.03</b>	7.998	125

3M EDR mode (Average):

CH	Freq. (MHz)	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	5.64	3.661	125
39	2441	5.60	3.628	125
78	2480	5.67	3.687	125

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

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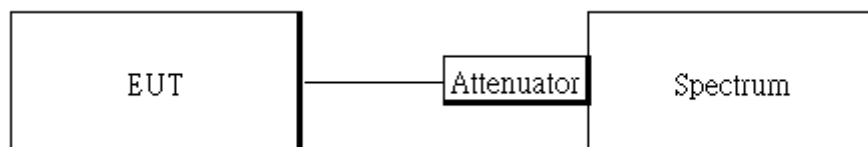
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## 10 EMISSION BANDWIDTH MEASUREMENT

### 10.1 Standard Applicable

For frequency hopping systems operating in the 2400 MHz-2483.5 MHz no limit for 20dB bandwidth.

### 10.2 Test Setup



### 10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
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 the spectrum analyzer as  
RBW= 1 % to 5% of OBW ,  
VBW = 3 X RBW,  
Span= 2 to 5 times of the OBW,  
Sweep=auto,  
Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Set the spectrum analyzer as  
RBW= 1 % to 5% of 99% Bandwidth ,  
VBW  $\geq$  3 X RBW,  
Span= large enough to capture all products of the modulation process,  
Sweep=auto,  
Detector = Peak, and Max hold for 99% Bandwidth test.
7. Mark the peak frequency and 99%dB (upper and lower) frequency
8. Repeat above procedures until all test default channel is completed

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## 10.4 20dB Bandwidth

### GFSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
0	0.9348	0.62
39	0.9666	0.64
78	0.9658	0.64

### $\pi/4$ -DQPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
0	1.284	0.86
39	1.285	0.86
78	1.287	0.86

### 8-DPSK

CH	20 dB BW (MHz)	2/3 BW (MHz)
0	1.299	0.87
39	1.299	0.87
78	1.298	0.87

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### GFSK

CH	99% BW (MHz)
0	0.82761
39	0.84159
78	0.84558

### $\pi/4$ -DQPSK

CH	99% BW (MHz)
0	1.1755
39	1.1746
78	1.1751

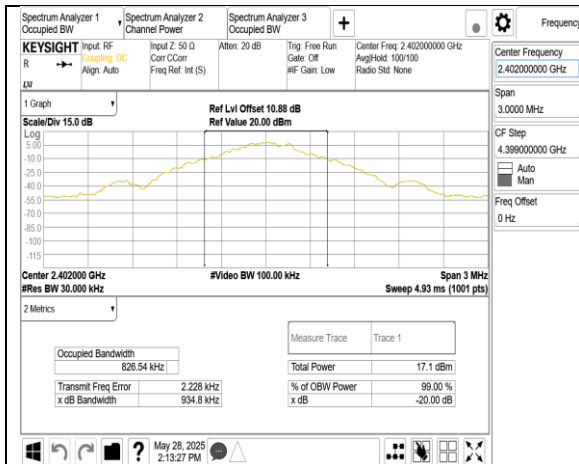
### 8-DPSK

CH	99% BW (MHz)
0	1.1777
39	1.1781
78	1.1783

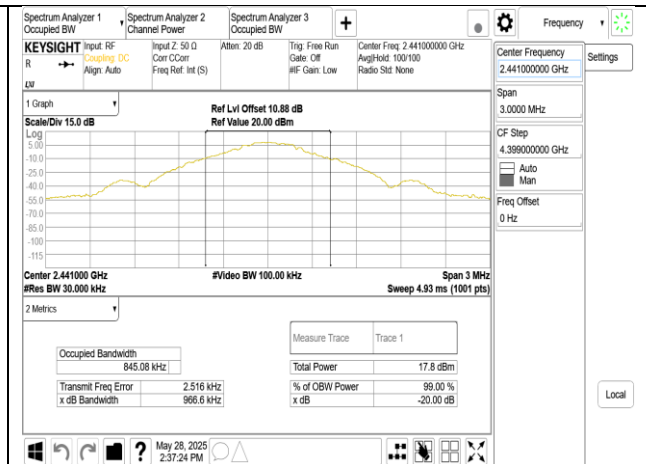
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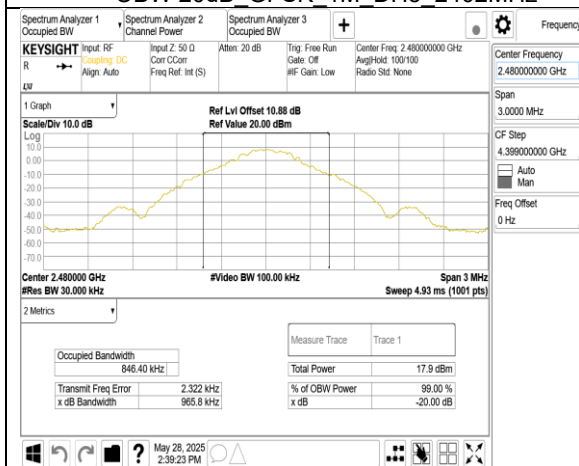
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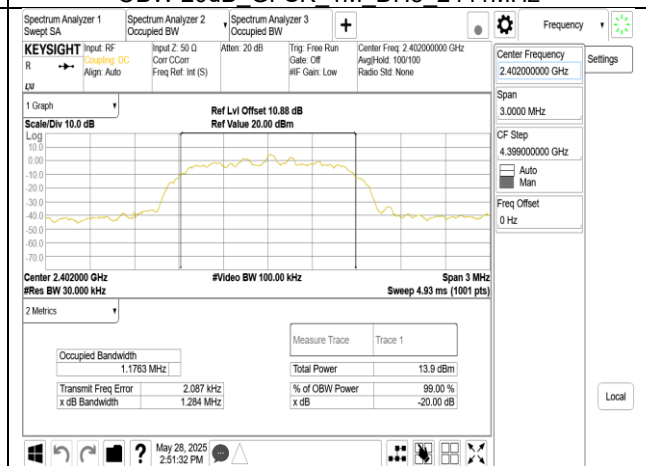
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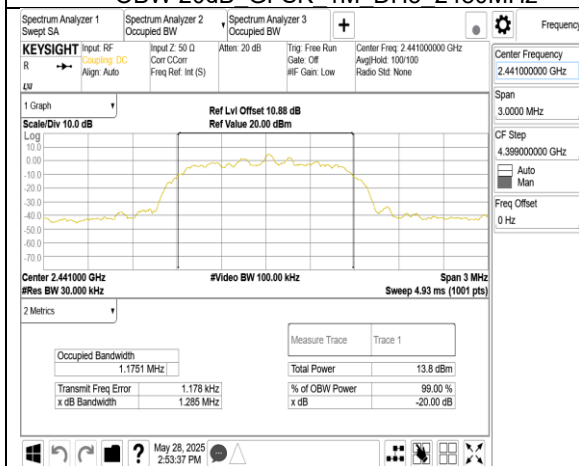
OBW 20dB GFSK 1M DH5 2441MHz



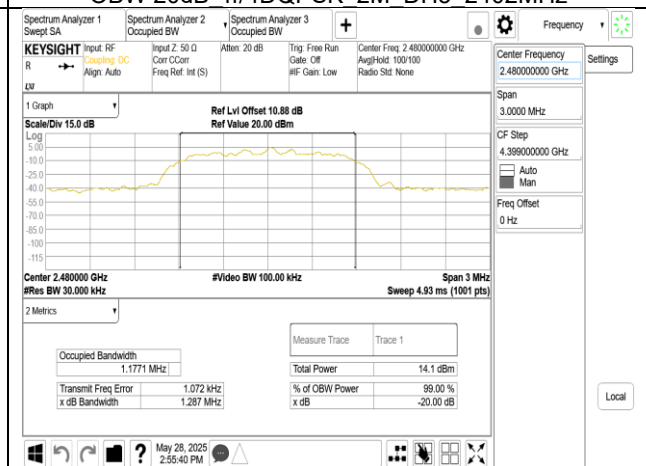
OBW 20dB GFSK 1M DH5 2480MHz



OBW 20dB  $\pi/4$ DQPSK 2M DH5 2402MHz



OBW 20dB  $\pi/4$ DQPSK 2M DH5 2441MHz

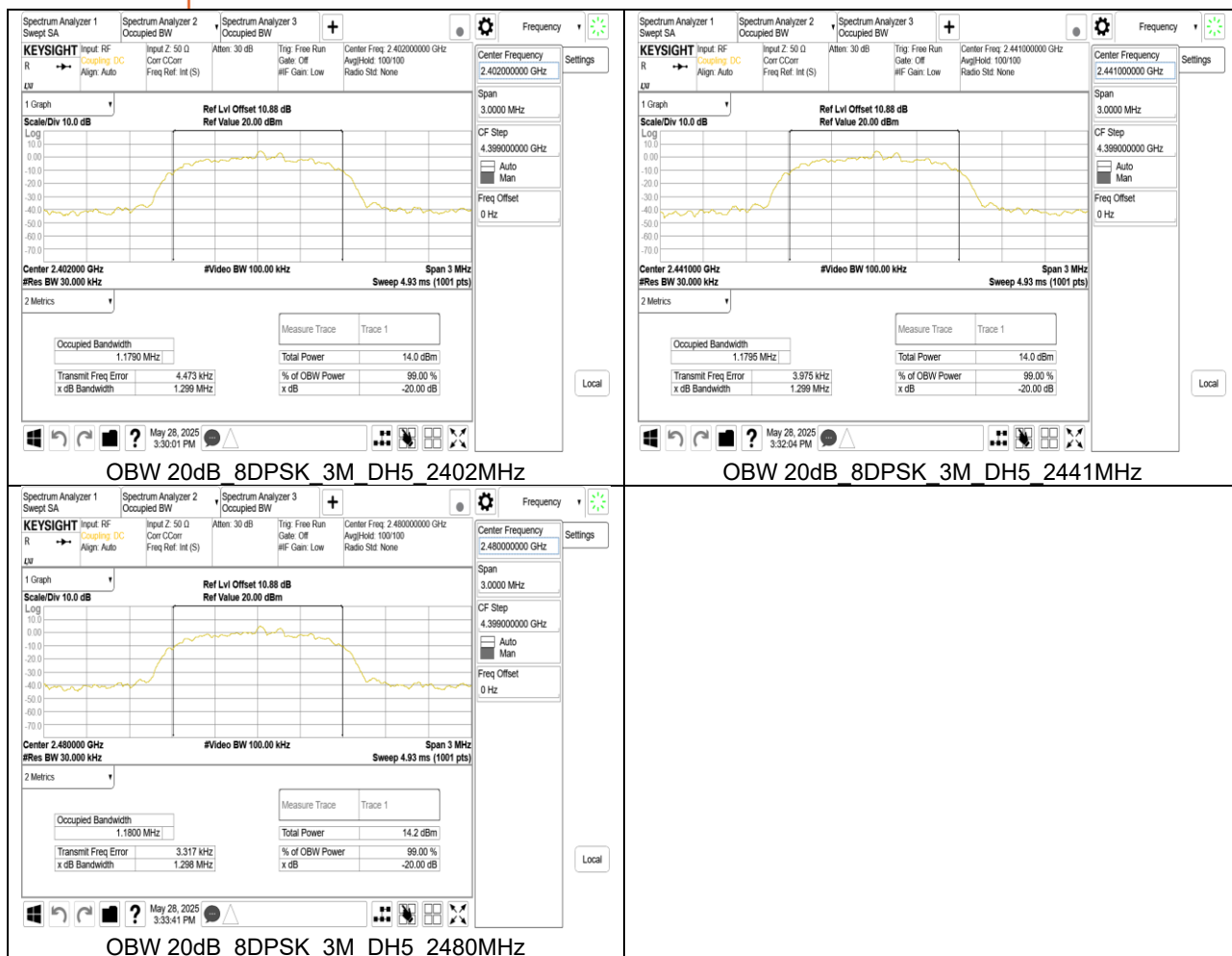


OBW 20dB  $\pi/4$ DQPSK 2M DH5 2480MHz

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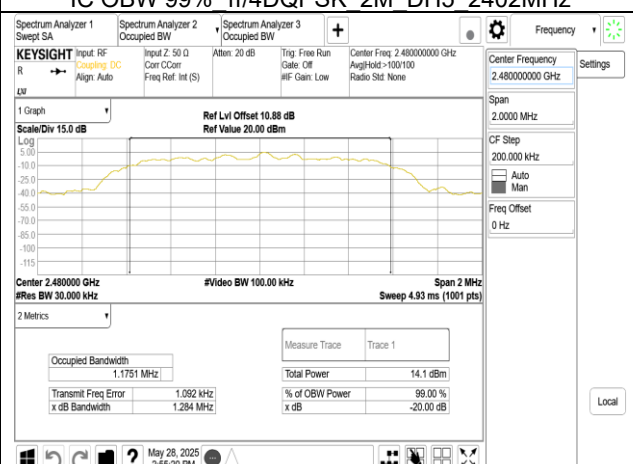
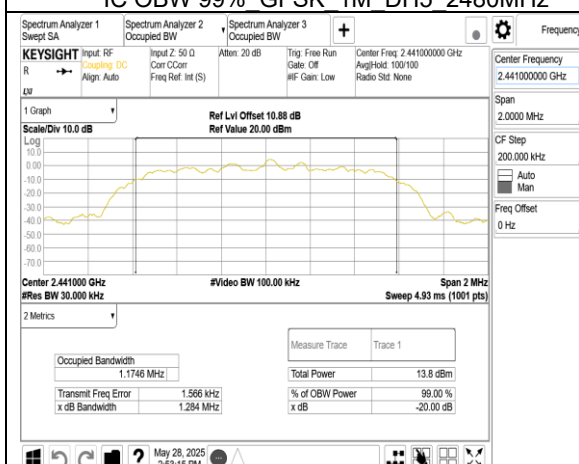
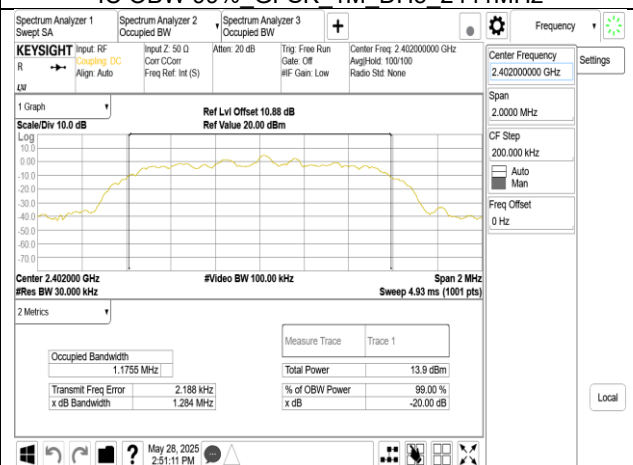
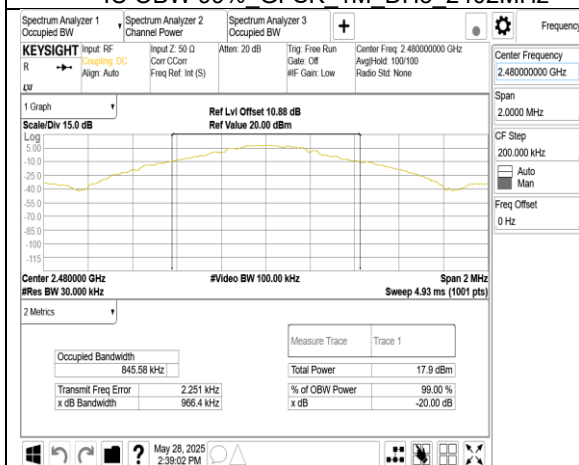
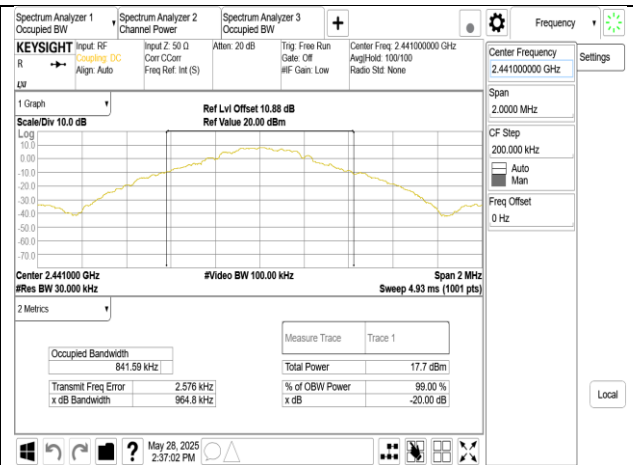
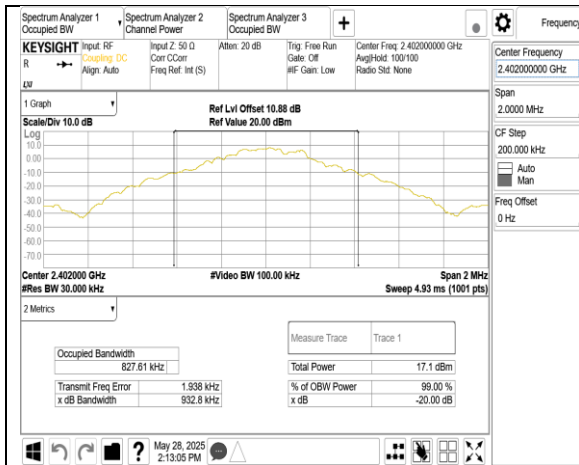
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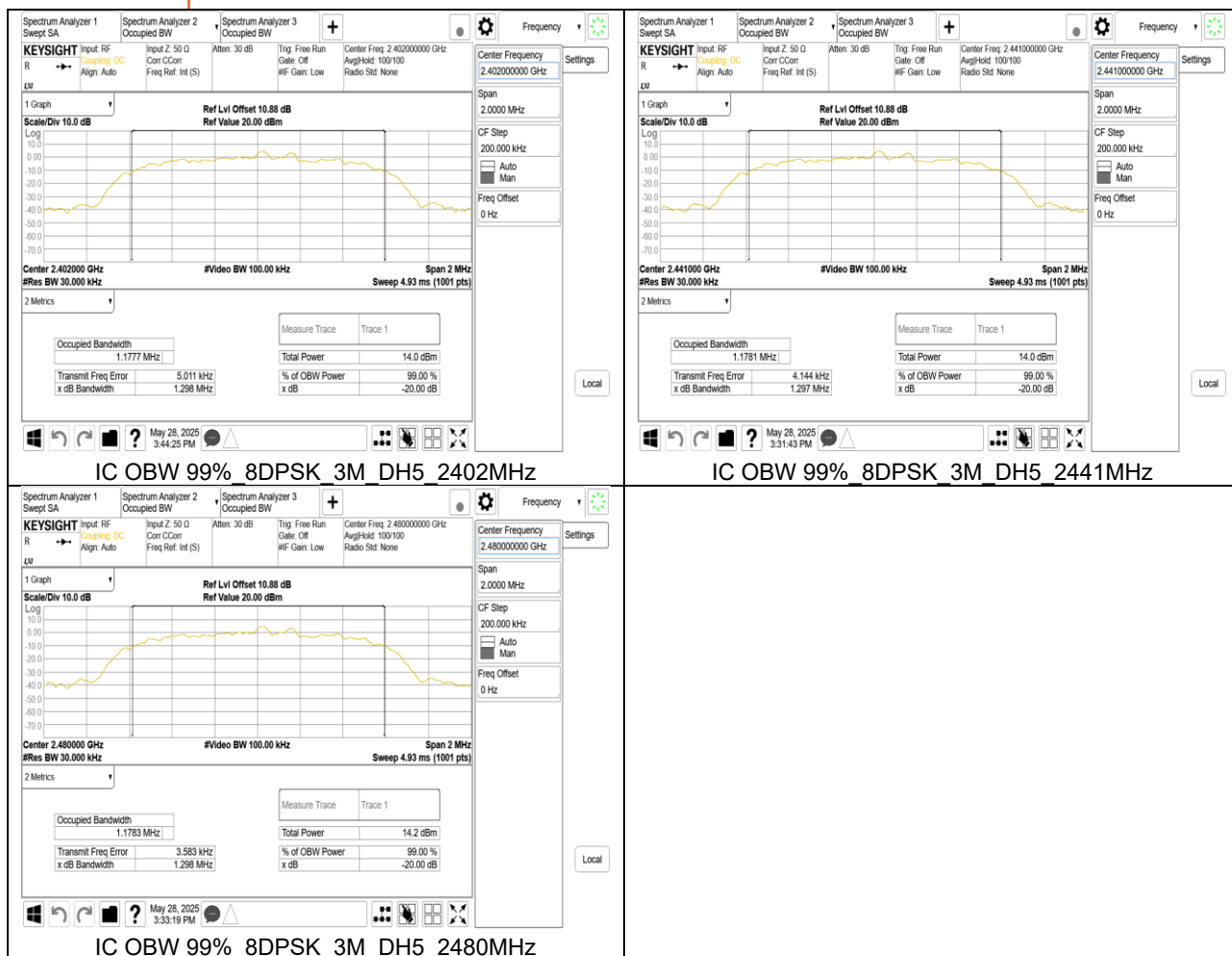
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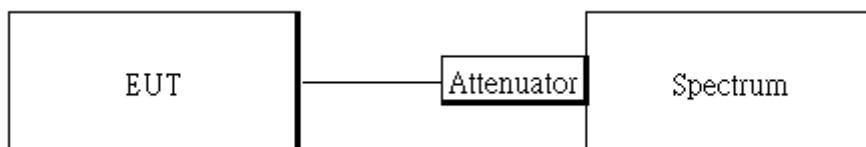
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## 11 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

### 11.1 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), must also comply with the radiated emission limits specified in §15.209(a).

### 11.2 Test Setup



### 11.3 Measurement Procedure

#### 11.3.1 Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
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=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, below 2.4GHz and above 2.4835GHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

#### 11.3.2 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
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.

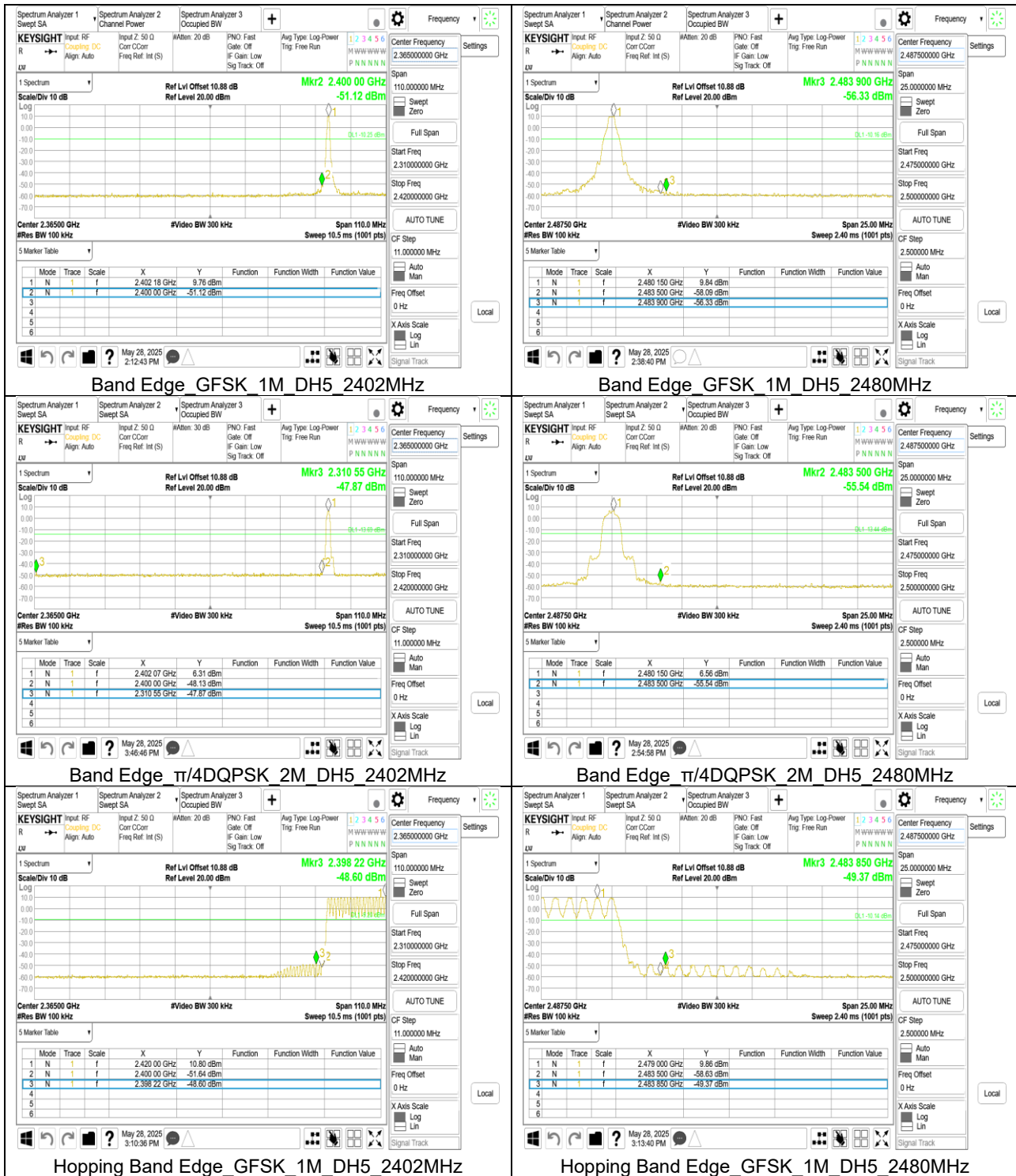
### 11.4 Measurement Result

See next page for test plots.

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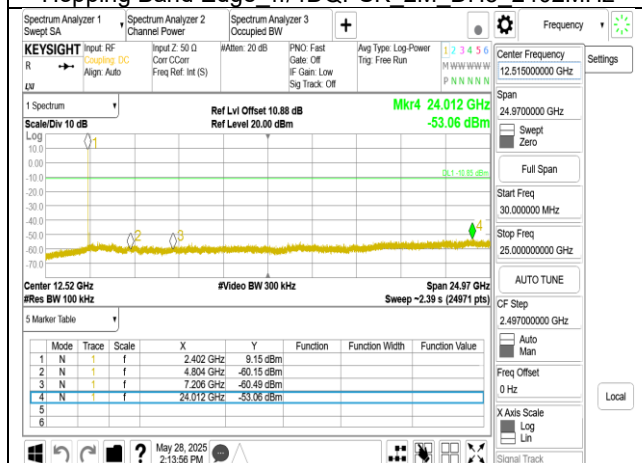




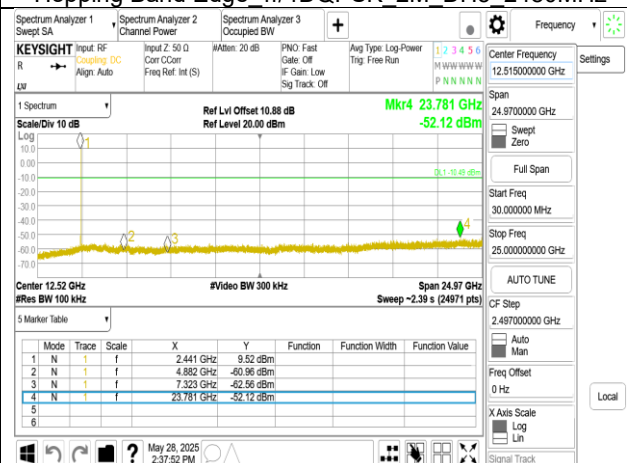
Hopping Band Edge  $\pi/4$ DQPSK 2M DH5 2402MHz



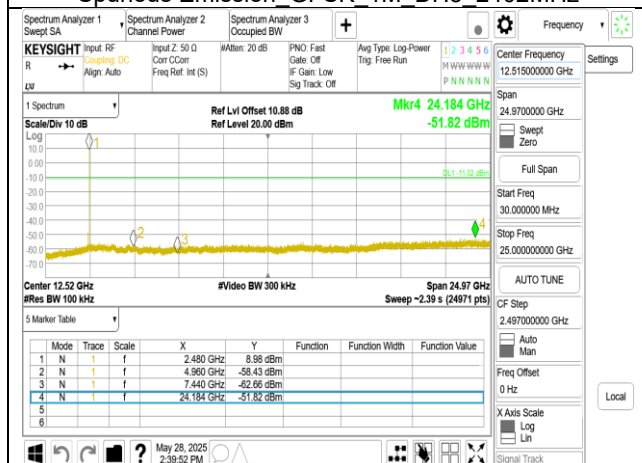
Hopping Band Edge  $\pi/4$ DQPSK 2M DH5 2480MHz



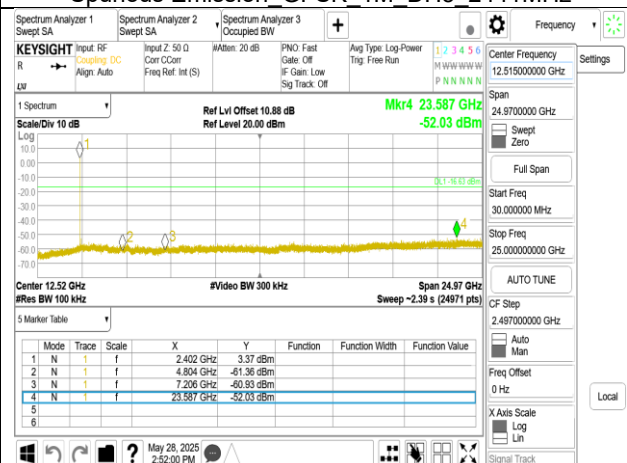
Spurious Emission GFSK 1M DH5 2402MHz



Spurious Emission GFSK 1M DH5 2441MHz



Spurious Emission GFSK 1M DH5 2480MHz

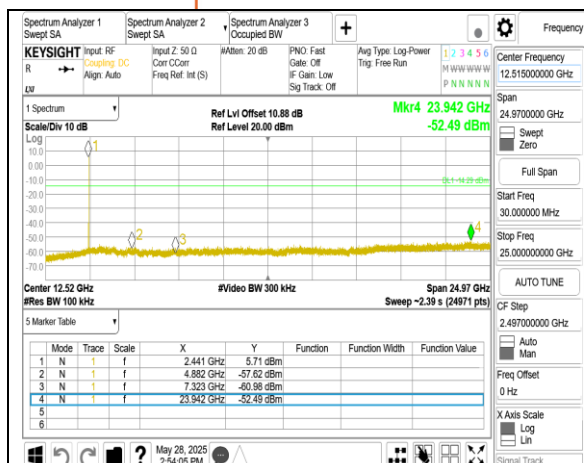


Spurious Emission  $\pi/4$ DQPSK 2M DH5 2402MHz

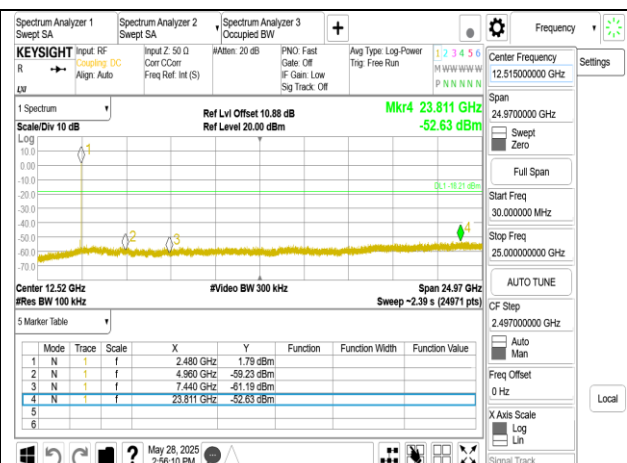
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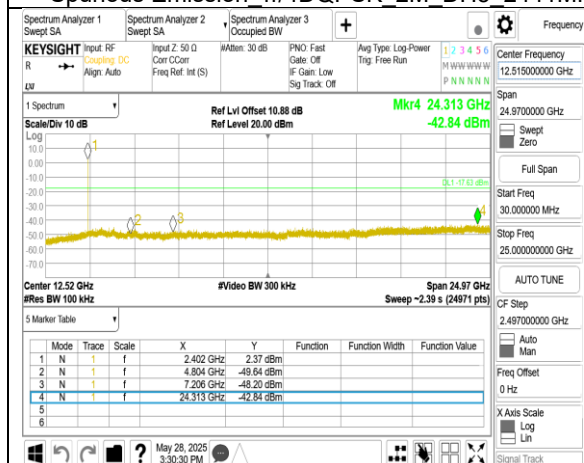
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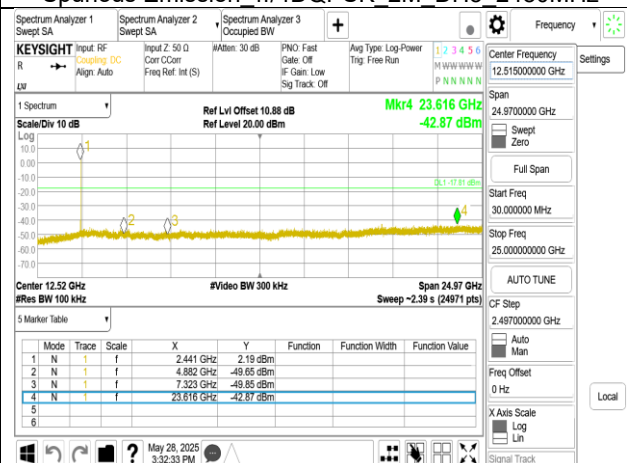
Spurious Emission  $\pi/4$ DQPSK 2M DH5 2441MHz



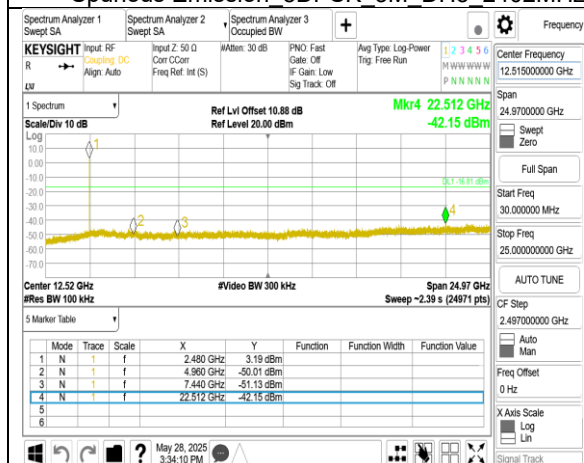
Spurious Emission  $\pi/4$ DQPSK 2M DH5 2480MHz



Spurious Emission 8DPSK 3M DH5 2402MHz



Spurious Emission 8DPSK 3M DH5 2441MHz



Spurious Emission 8DPSK 3M DH5 2480MHz

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## 12 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 12.1 Standard Applicable

#### 12.1.1 Duty Cycle Correction Factor

According to 15.35(c), 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.

#### 12.1.2 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 limit as below.

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

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

**Note:**

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

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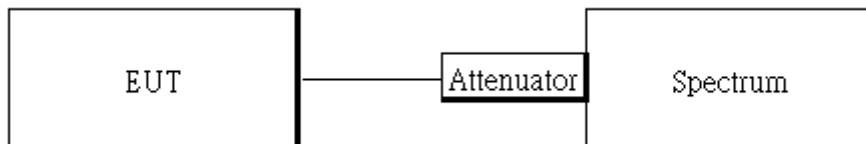
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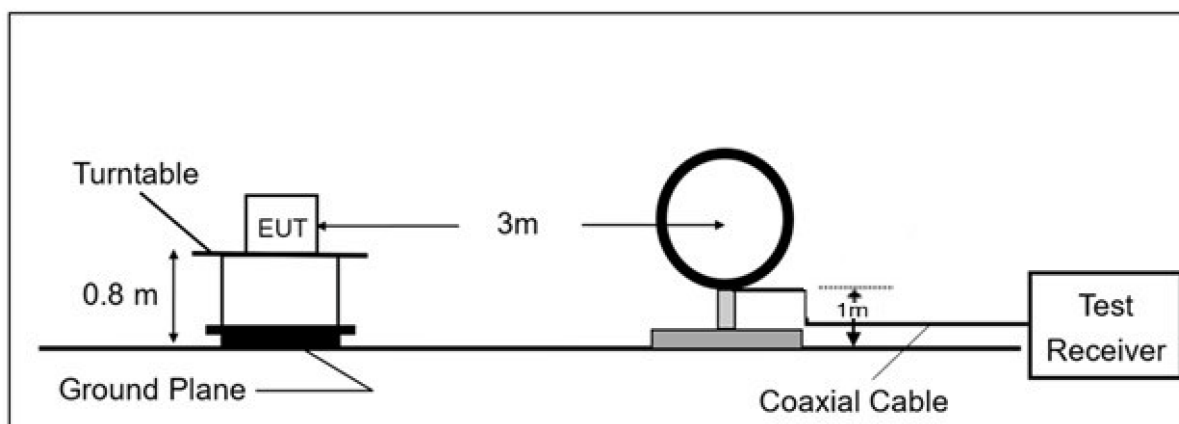
## 12.2 Test Setup

### 12.2.1 Duty Cycle Correction Factor

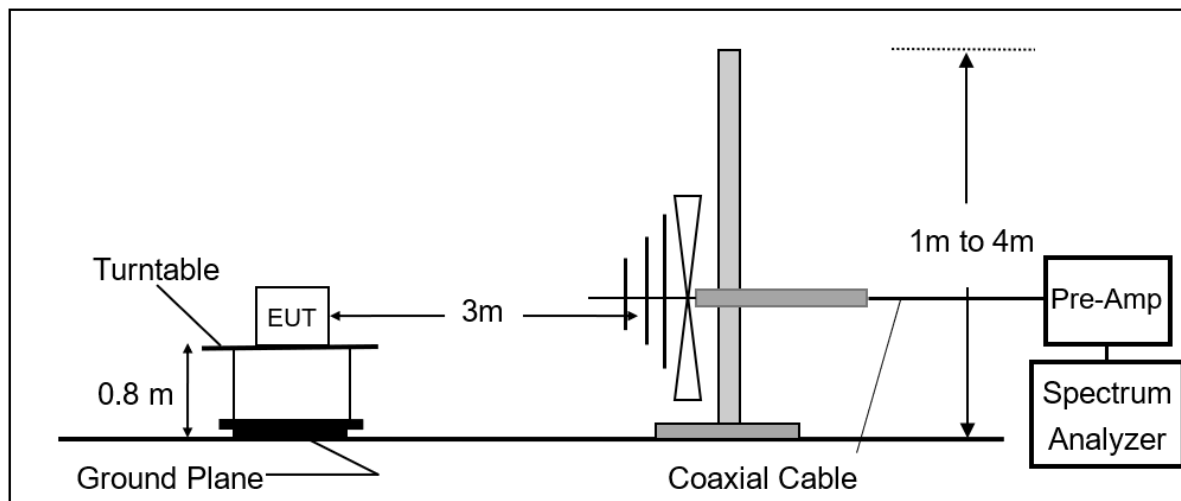


### 12.2.2 Radiated Emission

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



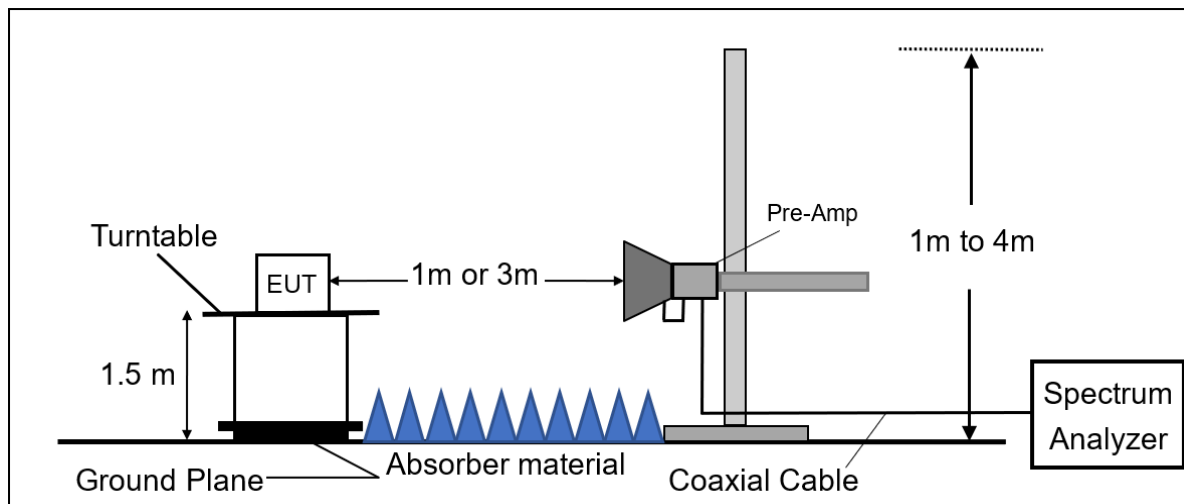
(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



## 12.3 Measurement Procedure

### 12.3.1 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.

### 12.3.2 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, Detector= Peak 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.

#### 12.4 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  $20 \cdot \log(uV/m)$*

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

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

#### 12.5 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) was not reported.

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## 12.6 Measurement Result:

### 12.6.1 Duty Cycle Correction Factor

#### Bluetooth 1M

Time ON of 100ms: 5.744 ms Duty Cycle=5.744ms / 100ms= 0.05744 Duty Cycle correction factor=20 LOG 0.05744 = -24.81 dB
------------------------------------------------------------------------------------------------------------------------------

#### Bluetooth 3M

Time ON of 100ms: 5.744 ms Duty Cycle=5.744ms / 100ms= 0.05744 Duty Cycle correction factor=20 LOG 0.05744 = -24.81 dB
------------------------------------------------------------------------------------------------------------------------------

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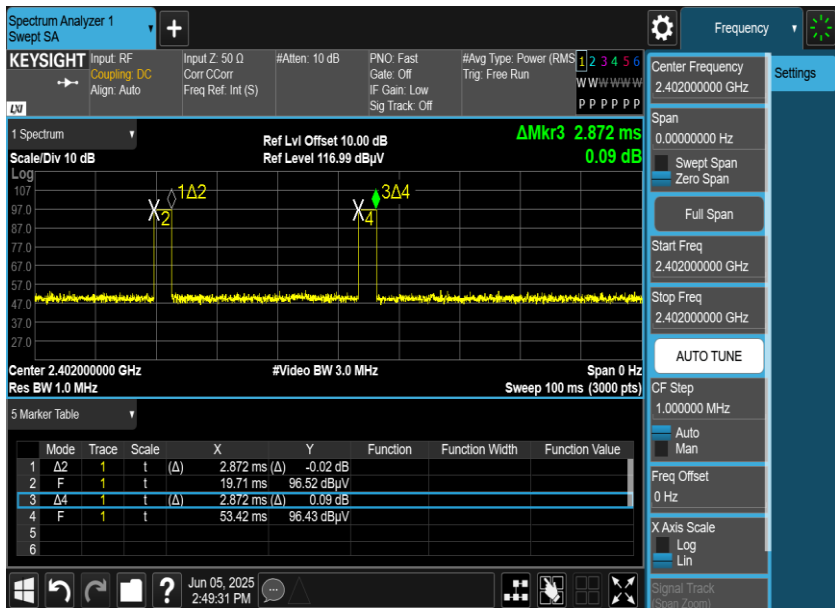
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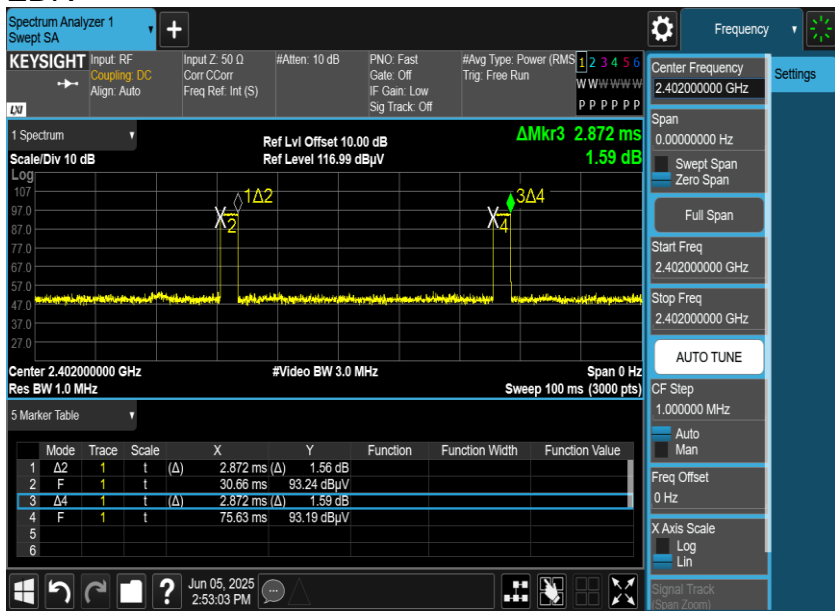


## 12.6.2 Duty Cycle test plot

BR



EDR



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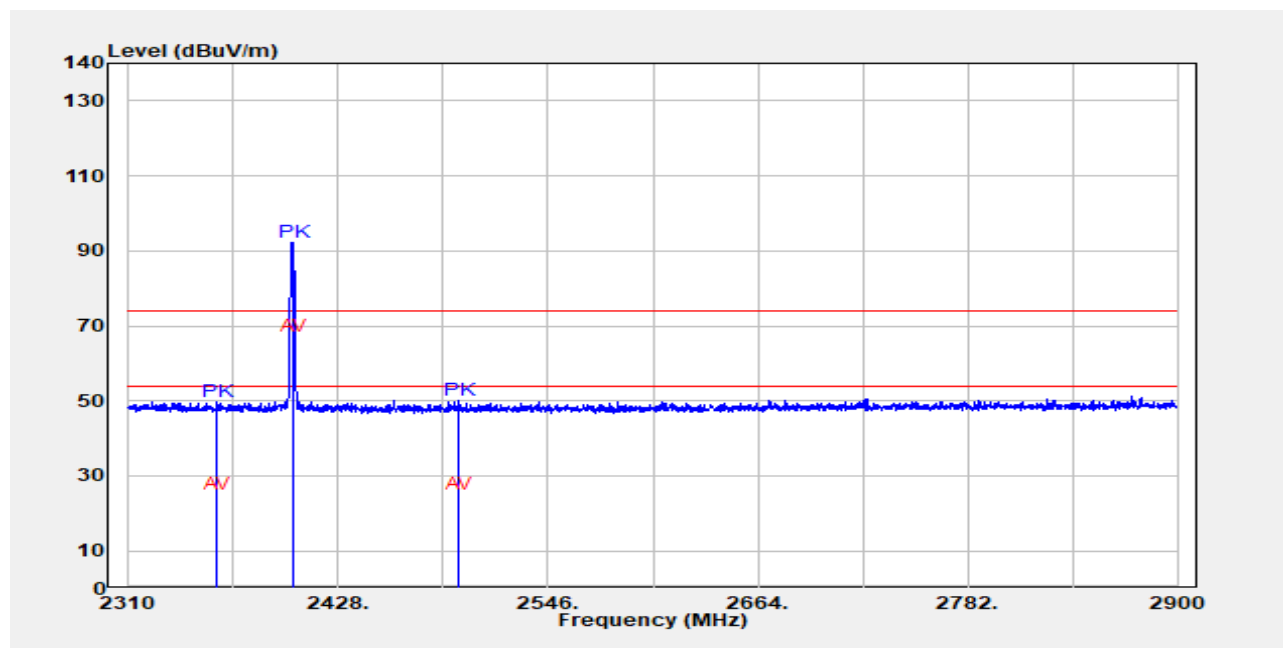
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### 12.6.3 Bandedge Result

Report Number :TERF2505001677ER  
Operation Mode :BR  
Test Frequency :2402 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-06-05  
Temp./Humi. :24.2°C/66%  
Antenna Pol. :Vertical  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2359.18	Peak	54.13	-4.44	49.69	74.00	-24.31
2359.18	Average	-	-	24.88	54.00	-29.12
2402.00	Peak	96.66	-4.54	92.12	-	-
2402.00	Average	-	-	67.31	-	-
2495.52	Peak	54.71	-4.71	50.00	74.00	-24.00
2495.52	Average	-	-	25.19	54.00	-28.81

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

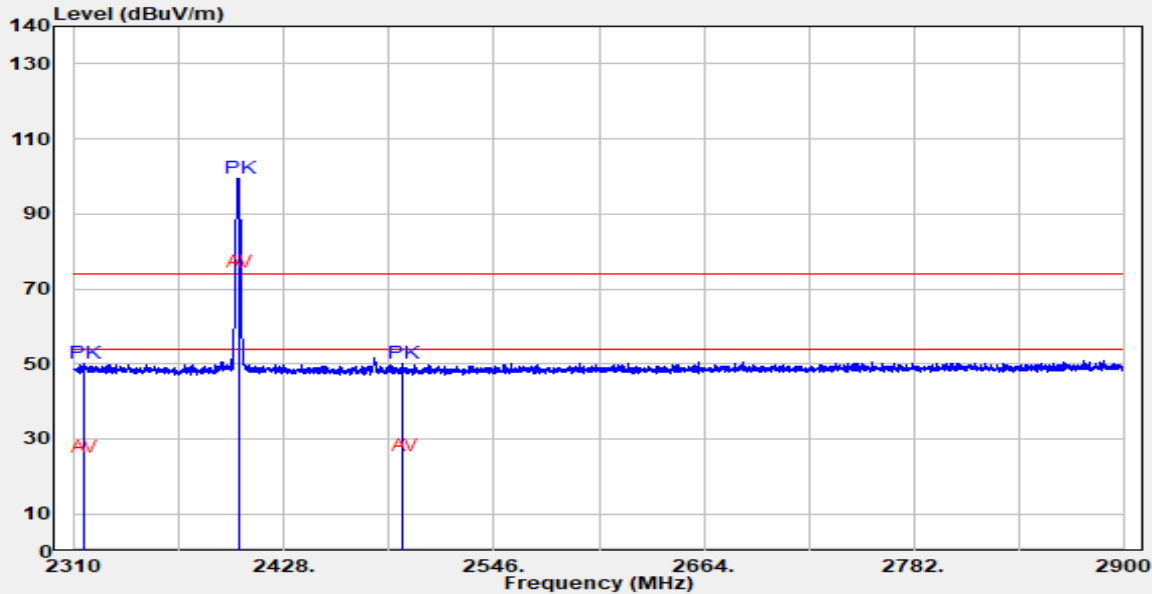
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Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2314.92	Peak	54.34	-4.33	50.01	74.00	-23.99
2314.92	Average	-	-	25.20	54.00	-28.80
2402.00	Peak	103.87	-4.54	99.33	-	-
2402.00	Average	-	-	74.52	-	-
2494.93	Peak	54.94	-4.70	50.24	74.00	-23.76
2494.93	Average	-	-	25.43	54.00	-28.57

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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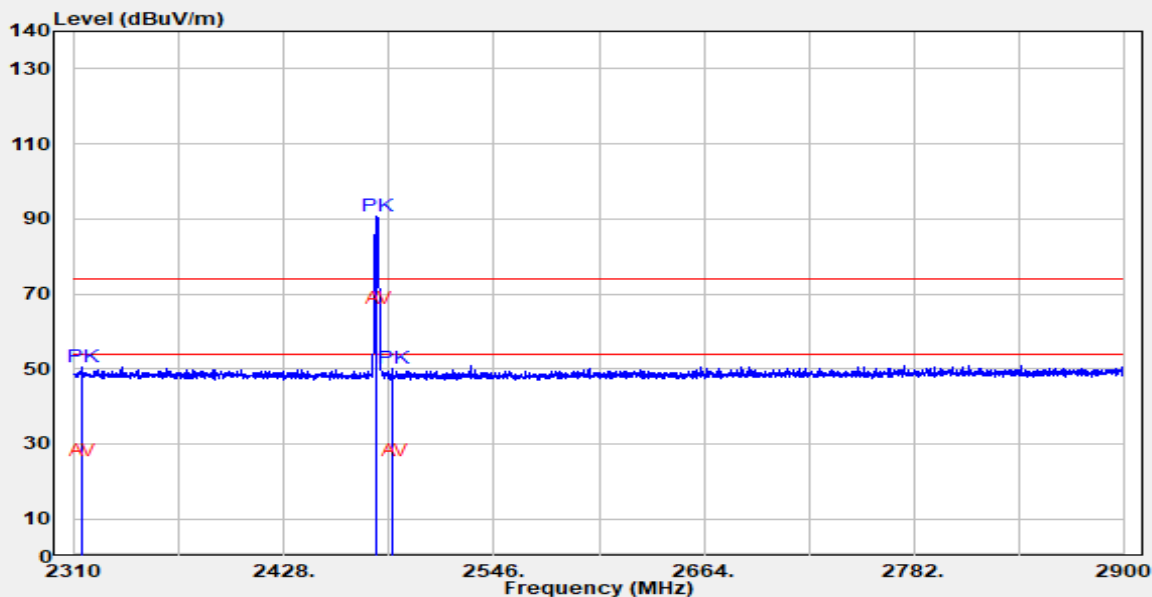
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 Operation Mode :BR  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2313.54	Peak	54.63	-4.33	50.30	74.00	-23.70
2313.54	Average	-	-	25.49	54.00	-28.51
2480.00	Peak	95.48	-4.71	90.77	-	-
2480.00	Average	-	-	65.96	-	-
2489.03	Peak	54.86	-4.70	50.16	74.00	-23.84
2489.03	Average	-	-	25.35	54.00	-28.65

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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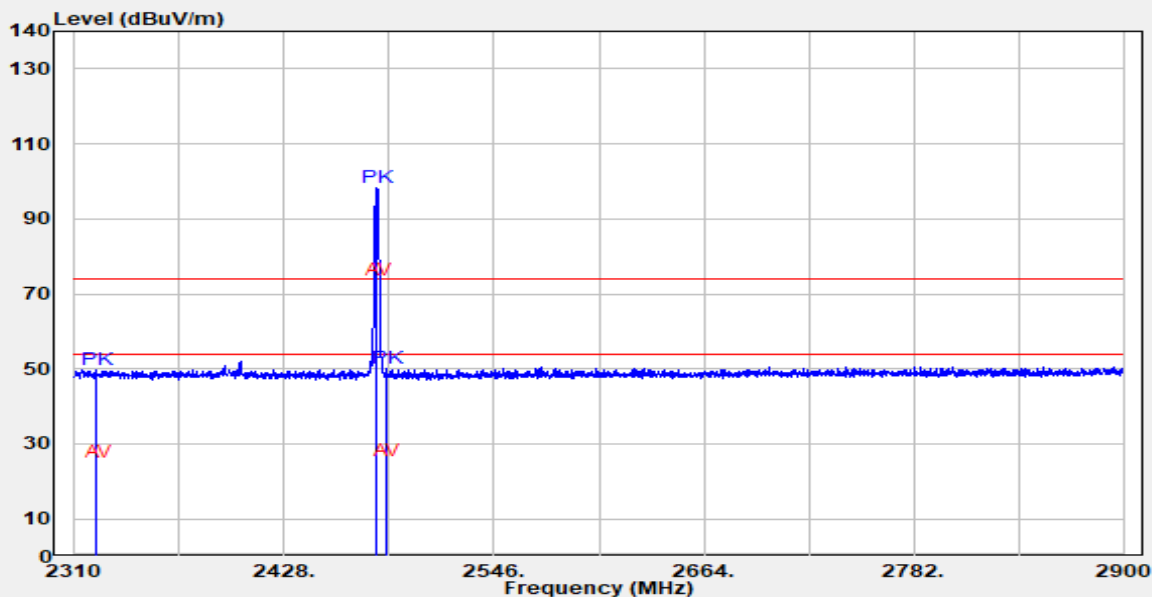
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Report Number :TERF2505001677ER  
Operation Mode :BR  
Test Frequency :2480 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-06-05  
Temp./Humi. :24.2°C/66%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2322.20	Peak	54.01	-4.34	49.67	74.00	-24.33
2322.20	Average	-	-	24.86	54.00	-29.14
2480.00	Peak	103.04	-4.71	98.33	-	-
2480.00	Average	-	-	73.52	-	-
2485.29	Peak	54.78	-4.71	50.07	74.00	-23.93
2485.29	Average	-	-	25.26	54.00	-28.74

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

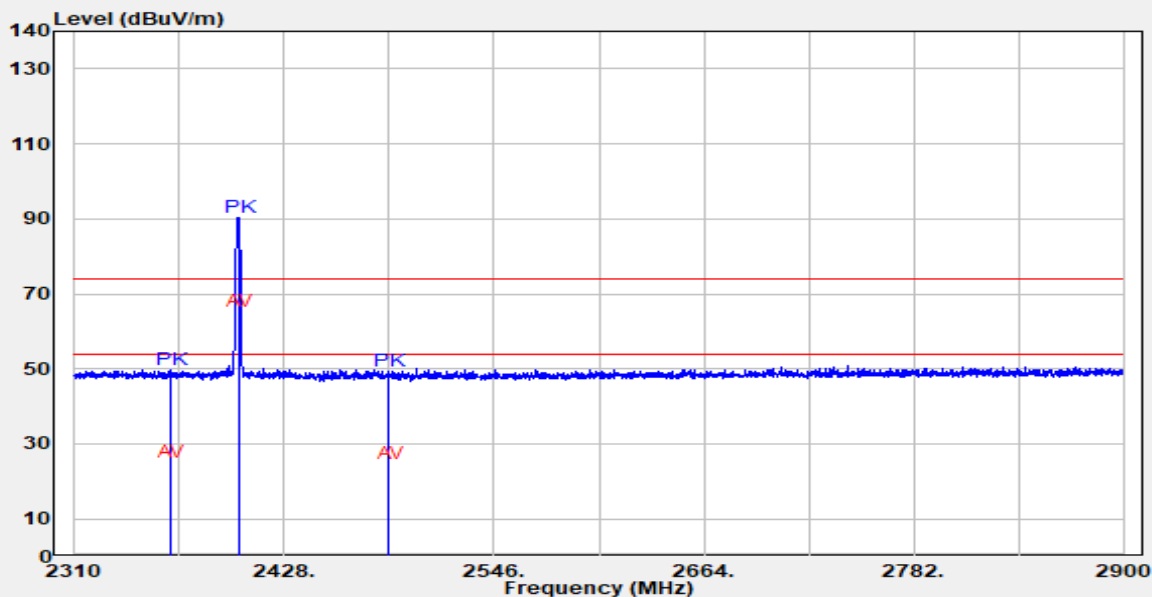
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2363.71	Peak	54.33	-4.45	49.88	74.00	-24.12
2363.71	Average	-	-	25.07	54.00	-28.93
2402.00	Peak	94.69	-4.54	90.15	-	-
2402.00	Average	-	-	65.34	-	-
2486.67	Peak	54.17	-4.71	49.46	74.00	-24.54
2486.67	Average	-	-	24.65	54.00	-29.35

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

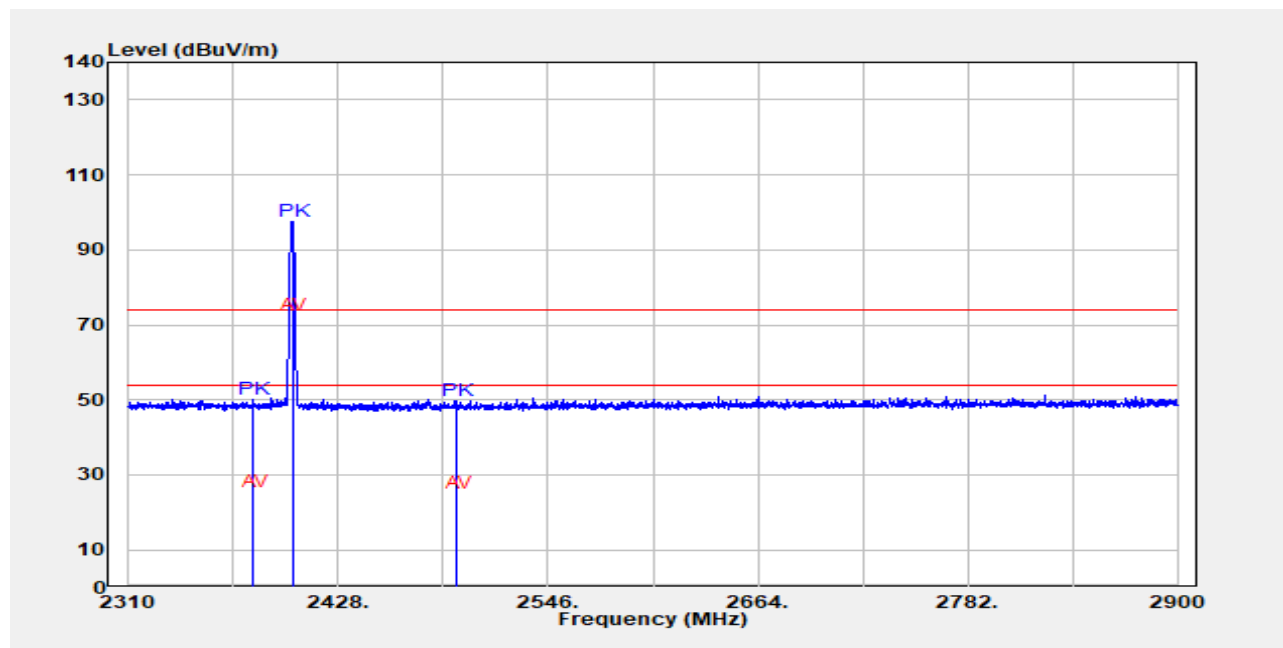
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2380.04	Peak	54.54	-4.48	50.06	74.00	-23.94
2380.04	Average	-	-	25.25	54.00	-28.75
2402.00	Peak	101.98	-4.54	97.44	-	-
2402.00	Average	-	-	72.63	-	-
2494.93	Peak	54.42	-4.70	49.72	74.00	-24.28
2494.93	Average	-	-	24.91	54.00	-29.09

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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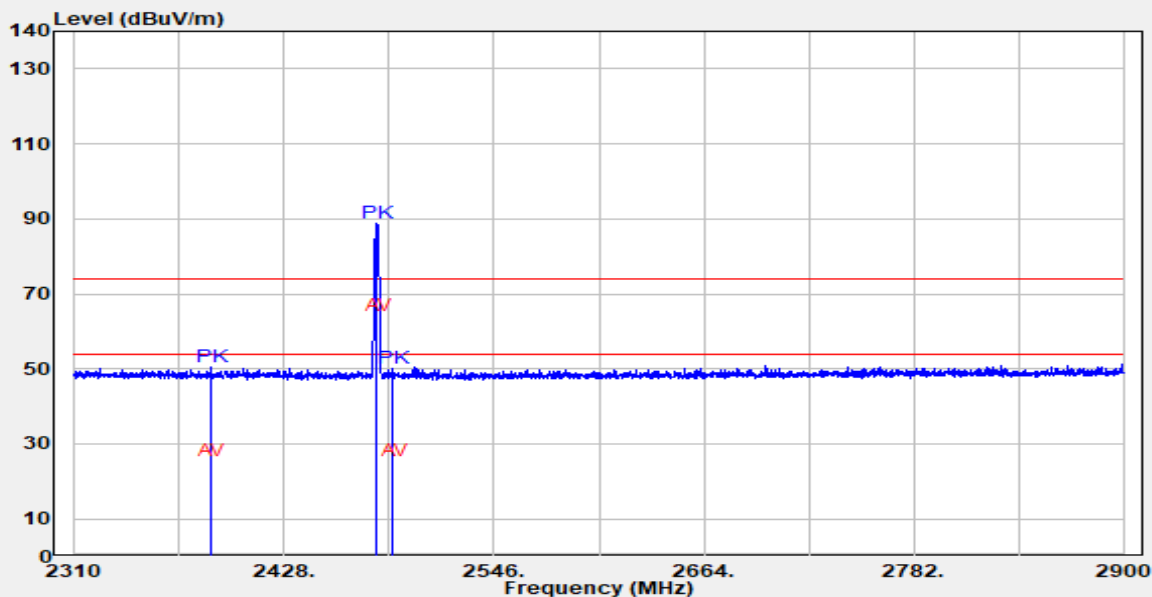
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



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	Peak	54.86	-4.50	50.36	74.00	-23.64
2386.14	Average	-	-	25.55	54.00	-28.45
2480.00	Peak	93.61	-4.71	88.90	-	-
2480.00	Average	-	-	64.09	-	-
2489.22	Peak	54.82	-4.70	50.12	74.00	-23.88
2489.22	Average	-	-	25.31	54.00	-28.69

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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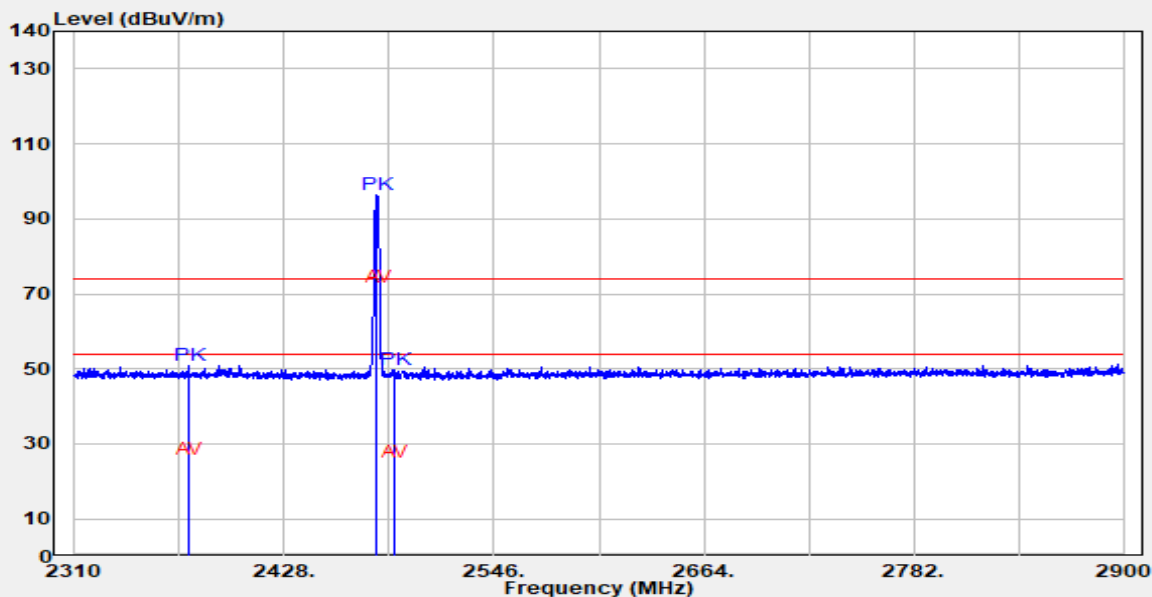
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2374.14	Peak	55.21	-4.47	50.74	74.00	-23.26
2374.14	Average	-	-	25.93	54.00	-28.07
2480.00	Peak	101.18	-4.71	96.47	-	-
2480.00	Average	-	-	71.66	-	-
2489.81	Peak	54.45	-4.70	49.75	74.00	-24.25
2489.81	Average	-	-	24.94	54.00	-29.06

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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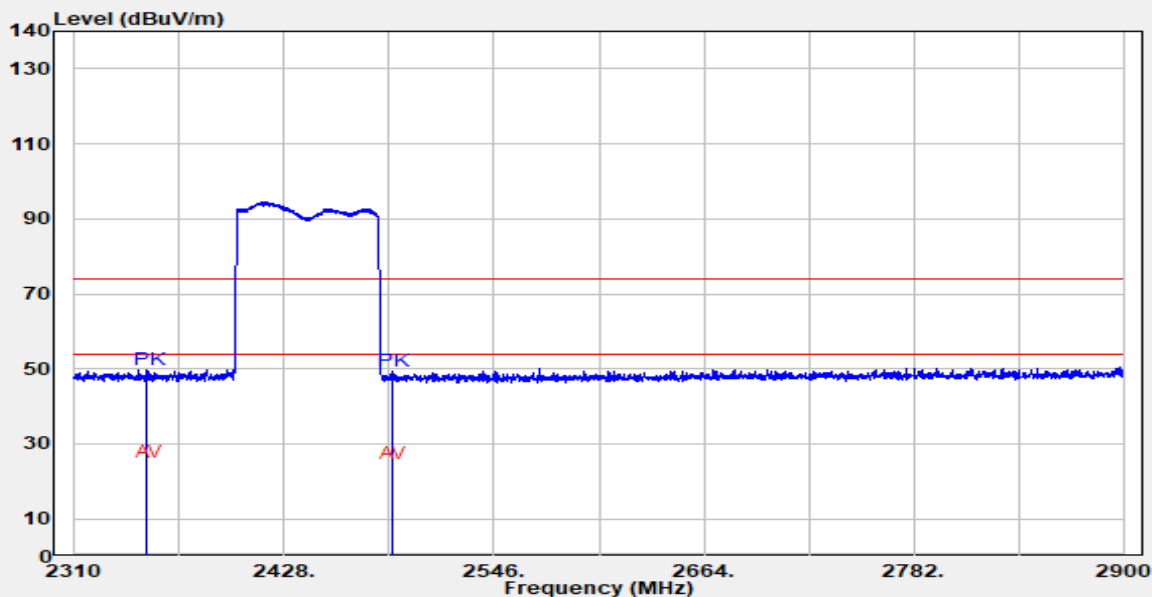
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Report Number :TERF2505001677ER  
 Operation Mode :BR Hopping  
 Test Frequency :2402~2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.3℃/62%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2350.92	Peak	54.13	-4.41	49.72	74.00	-24.28
2350.92	Average	-	-	24.91	54.00	-29.09
2488.24	Peak	54.06	-4.71	49.35	74.00	-24.65
2488.24	Average	-	-	24.54	54.00	-29.46

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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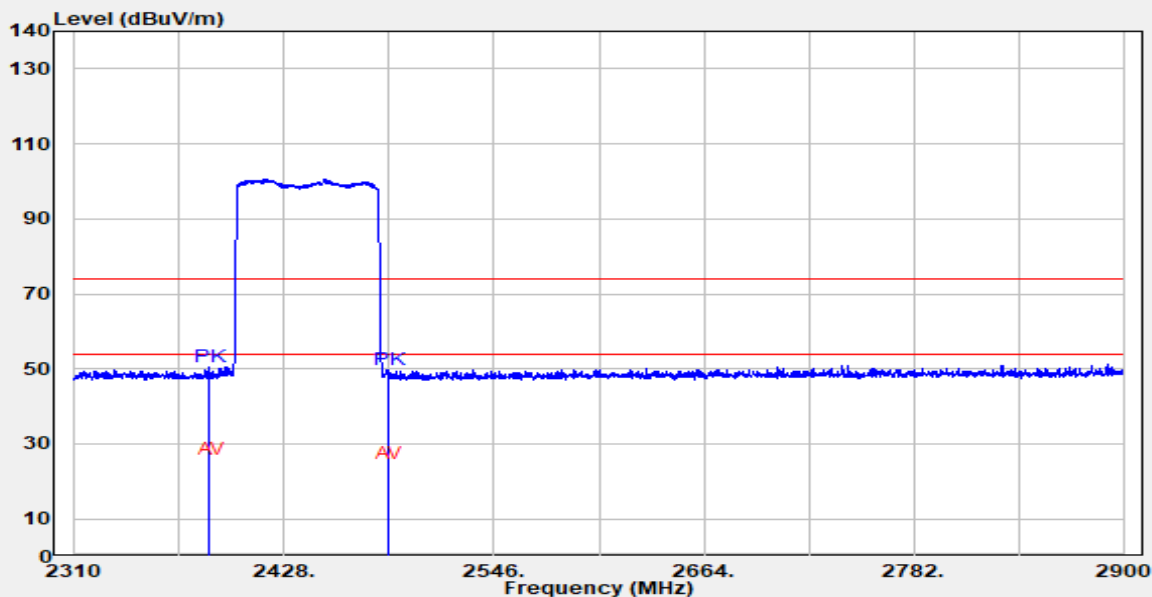
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Report Number :TERF2505001677ER  
 Operation Mode :BR Hopping  
 Test Frequency :2402~2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.3℃/62%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



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	55.08	-4.50	50.58	74.00	-23.42
2385.74	Average	-	-	25.77	54.00	-28.23
2486.08	Peak	54.33	-4.71	49.62	74.00	-24.38
2486.08	Average	-	-	24.81	54.00	-29.19

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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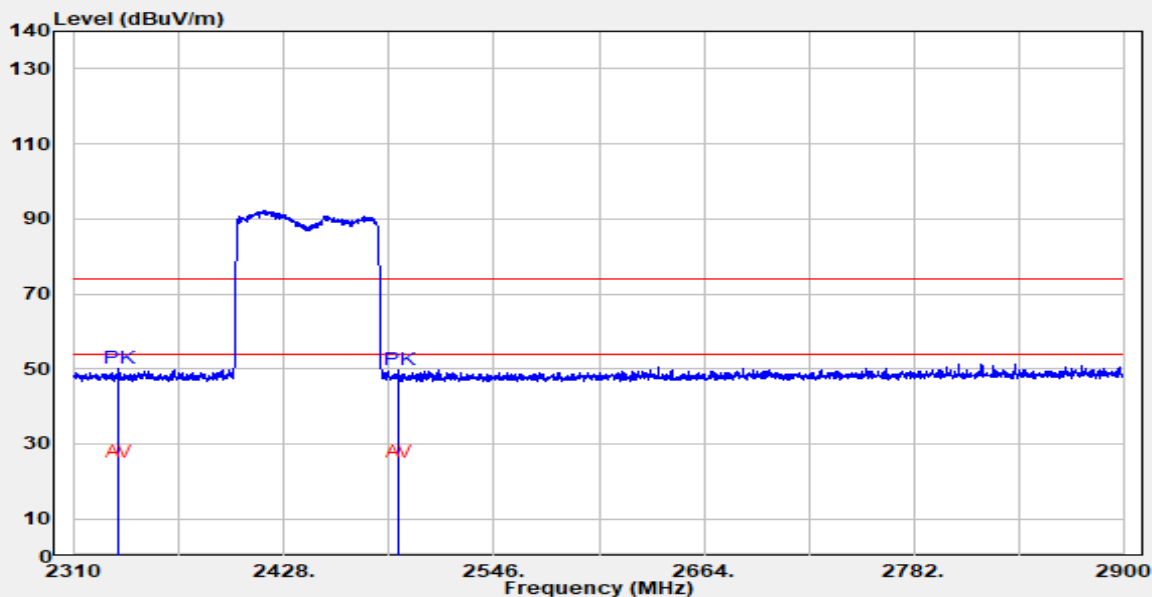
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M Hopping  
 Test Frequency :2402~2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.3°C/62%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2334.20	Peak	54.33	-4.38	49.95	74.00	-24.05
2334.20	Average	-	-	25.14	54.00	-28.86
2492.17	Peak	54.42	-4.70	49.72	74.00	-24.28
2492.17	Average	-	-	24.91	54.00	-29.09

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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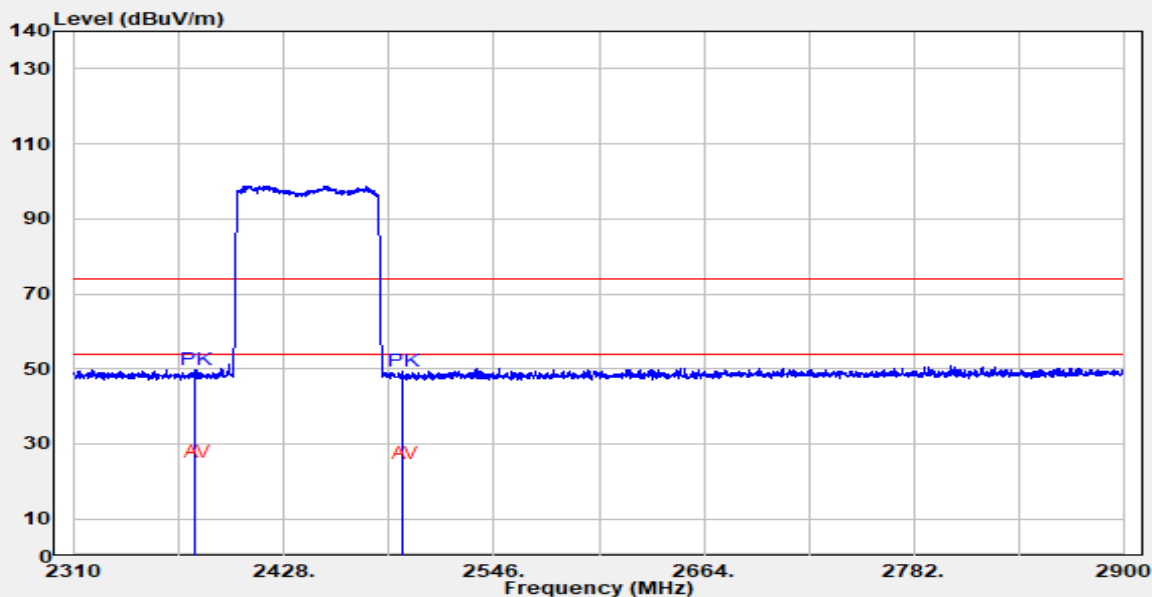
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M Hopping  
 Test Frequency :2402~2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.3°C/62%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



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	Peak	54.34	-4.49	49.85	74.00	-24.15
2378.07	Average	-	-	25.04	54.00	-28.96
2494.73	Peak	53.98	-4.70	49.28	74.00	-24.72
2494.73	Average	-	-	24.47	54.00	-29.53

Average Duty Cycle Factor=-24.81 (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.

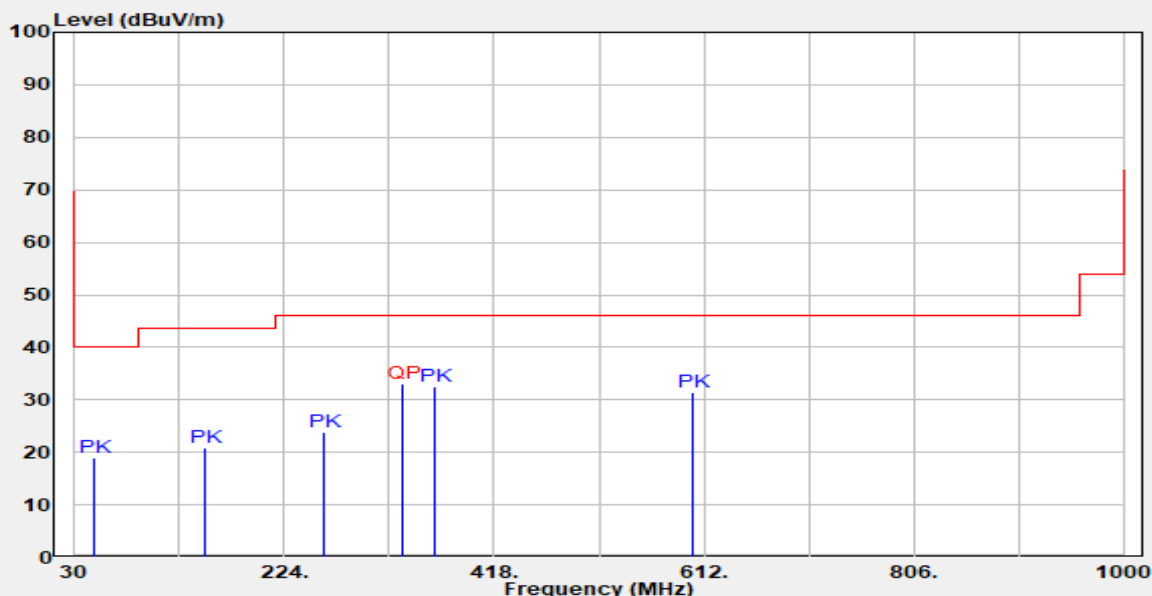
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## 12.6.4 Radiated Spurious Emission

Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2441 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
48.43	Peak	27.59	-8.67	18.92	40.00	-21.08
151.25	Peak	29.18	-8.21	20.97	43.50	-22.53
260.86	Peak	32.10	-8.25	23.85	46.00	-22.15
333.61	QP	39.46	-6.36	33.10	46.00	-12.90
363.68	Peak	38.34	-5.90	32.44	46.00	-13.56
601.33	Peak	32.75	-1.21	31.54	46.00	-14.46

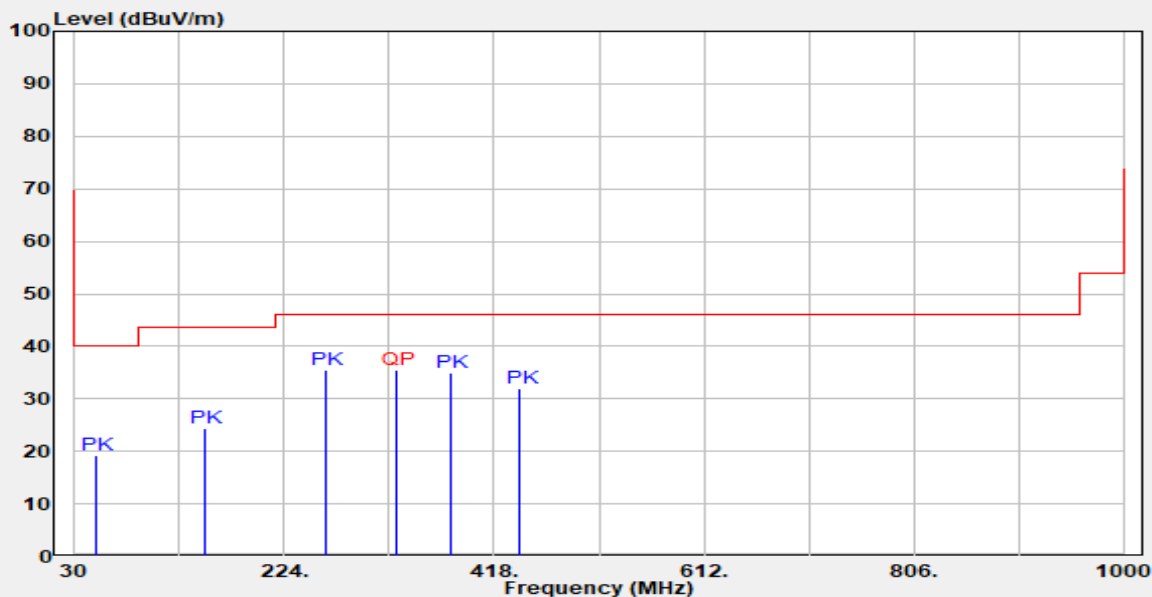
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Report Number :TERF2505001677ER  
Operation Mode :BR  
Test Frequency :2441 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-06-05  
Temp./Humi. :24.2°C/66%  
Antenna Pol. :Horizontal  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	Peak	27.69	-8.56	19.13	40.00	-20.87
151.25	Peak	32.58	-8.21	24.37	43.50	-19.13
261.83	Peak	43.68	-8.21	35.47	46.00	-10.53
327.79	QP	42.02	-6.43	35.59	46.00	-10.41
378.23	Peak	40.57	-5.62	34.95	46.00	-11.05
442.25	Peak	35.96	-4.11	31.85	46.00	-14.15

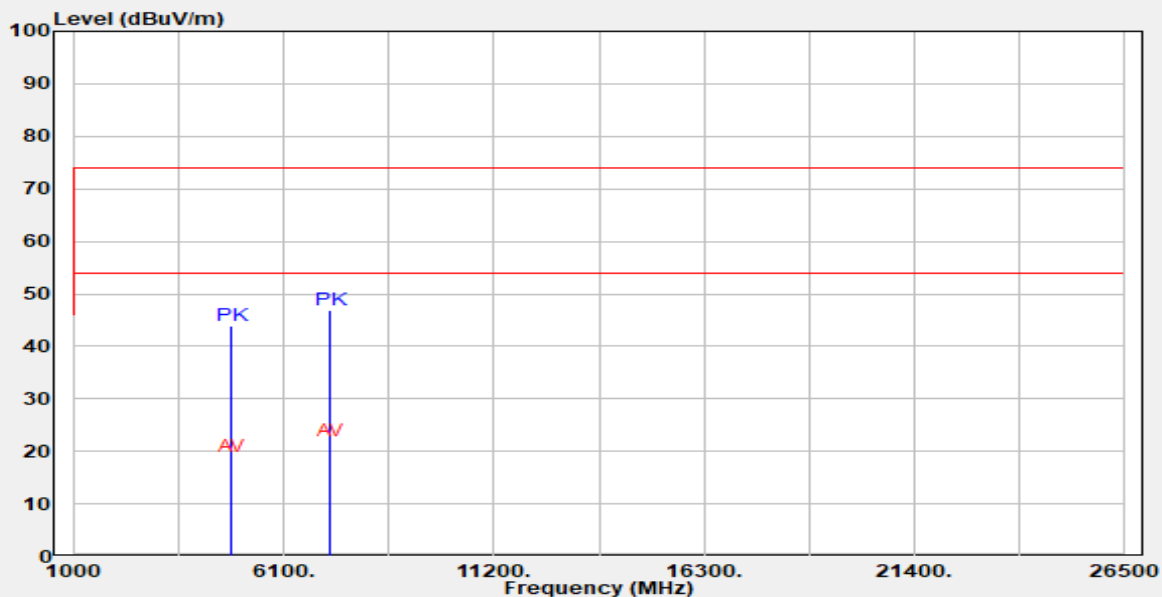
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Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.00	Peak	44.47	-0.58	43.89	74.00	-30.11
4804.00	Average	-	-	19.08	54.00	-34.92
7206.00	Peak	41.90	4.94	46.84	74.00	-27.16
7206.00	Average	-	-	22.03	54.00	-31.97

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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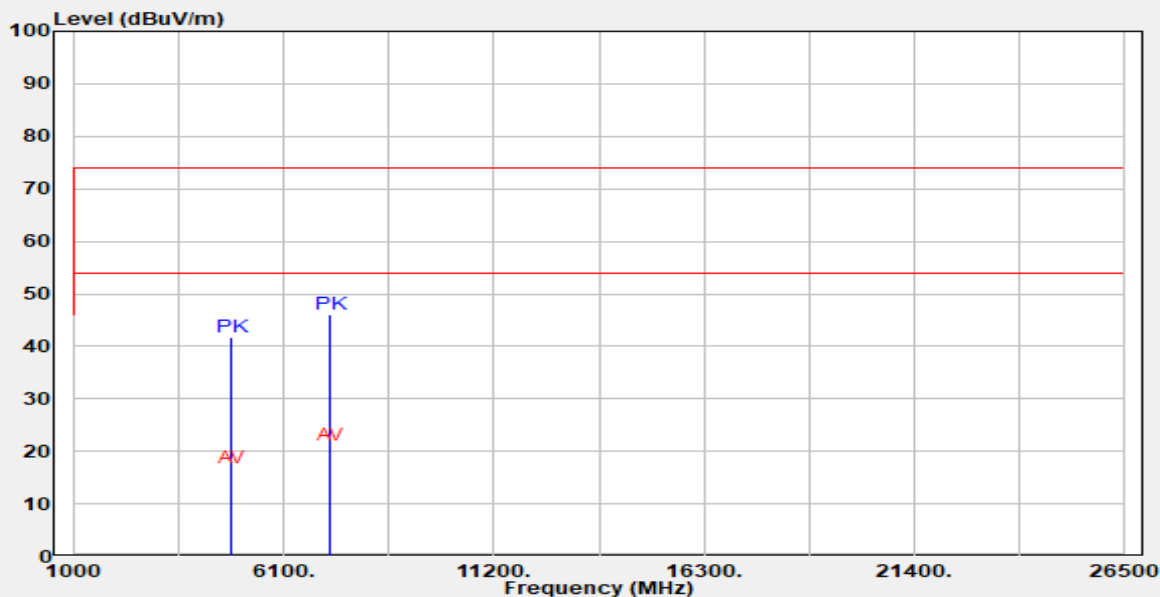
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Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.00	Peak	42.22	-0.58	41.64	74.00	-32.36
4804.00	Average	-	-	16.83	54.00	-37.17
7206.00	Peak	41.10	4.94	46.04	74.00	-27.96
7206.00	Average	-	-	21.23	54.00	-32.77

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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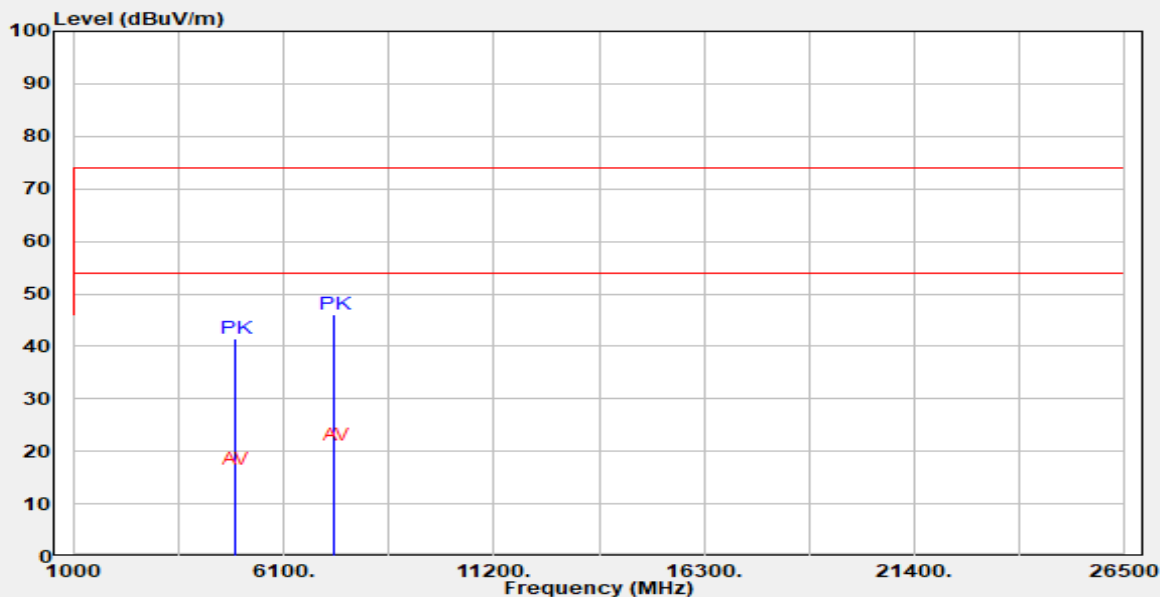
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Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2441 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



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	Peak	42.04	-0.68	41.36	74.00	-32.64
4882.00	Average	-	-	16.55	54.00	-37.45
7323.00	Peak	40.88	5.17	46.05	74.00	-27.95
7323.00	Average	-	-	21.24	54.00	-32.76

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

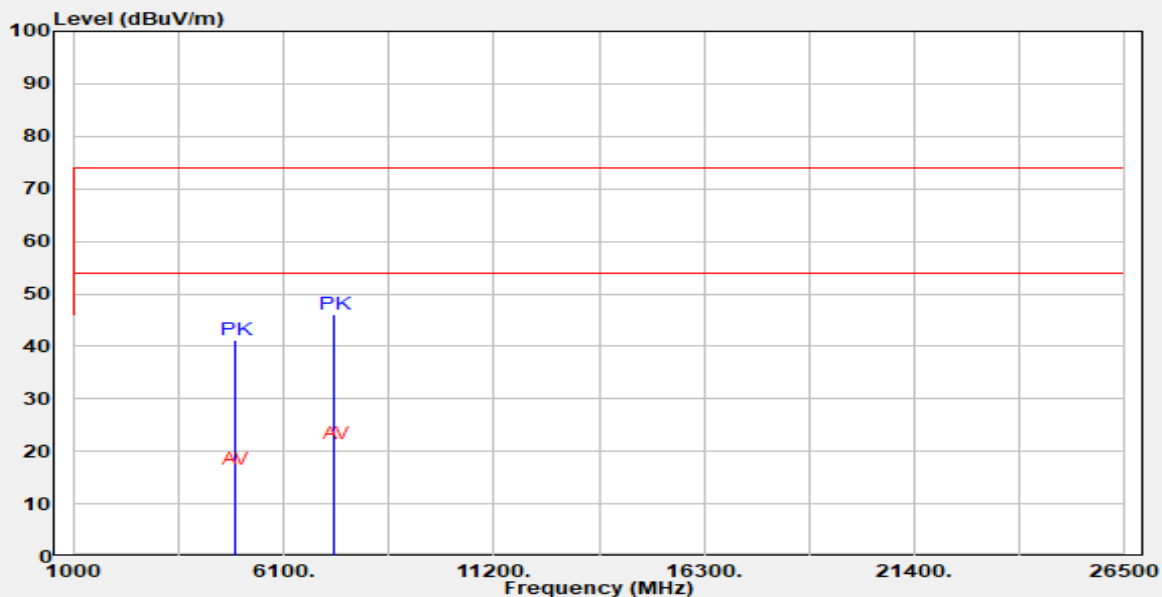
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Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2441 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



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	Peak	41.98	-0.68	41.30	74.00	-32.70
4882.00	Average	-	-	16.49	54.00	-37.51
7323.00	Peak	40.96	5.17	46.13	74.00	-27.87
7323.00	Average	-	-	21.32	54.00	-32.68

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

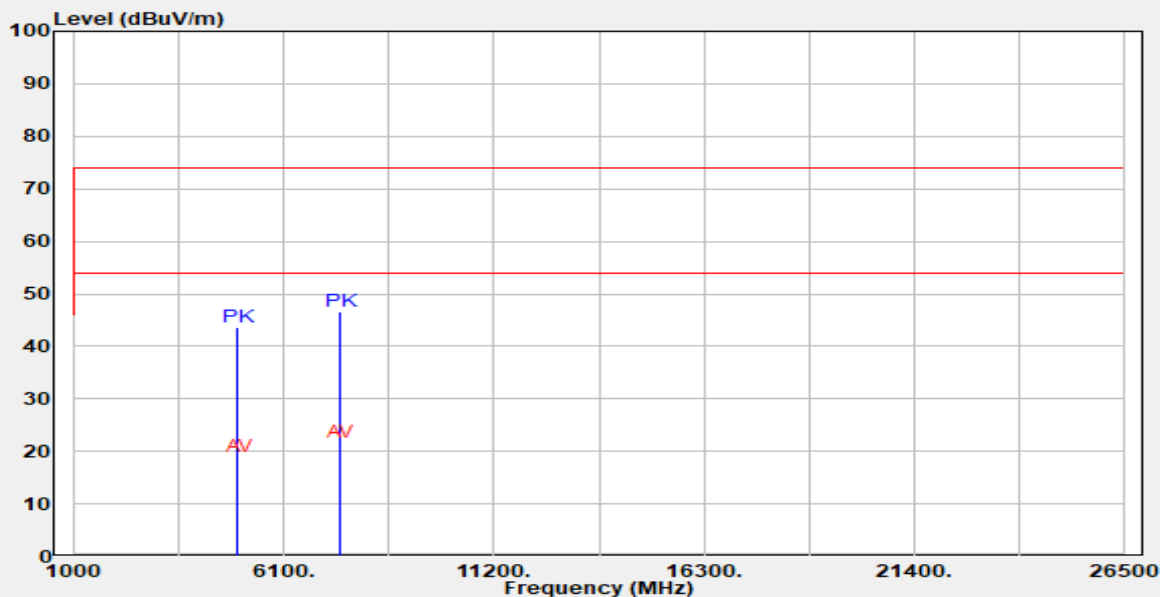
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Report Number :TERF2505001677ER  
Operation Mode :BR  
Test Frequency :2480 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC 3  
Test Date :2025-06-05  
Temp./Humi. :24.2°C/66%  
Antenna Pol. :Vertical  
Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Peak	44.14	-0.43	43.71	74.00	-30.29
4960.00	Average	-	-	18.90	54.00	-35.10
7440.00	Peak	41.45	5.09	46.54	74.00	-27.46
7440.00	Average	-	-	21.73	54.00	-32.27

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

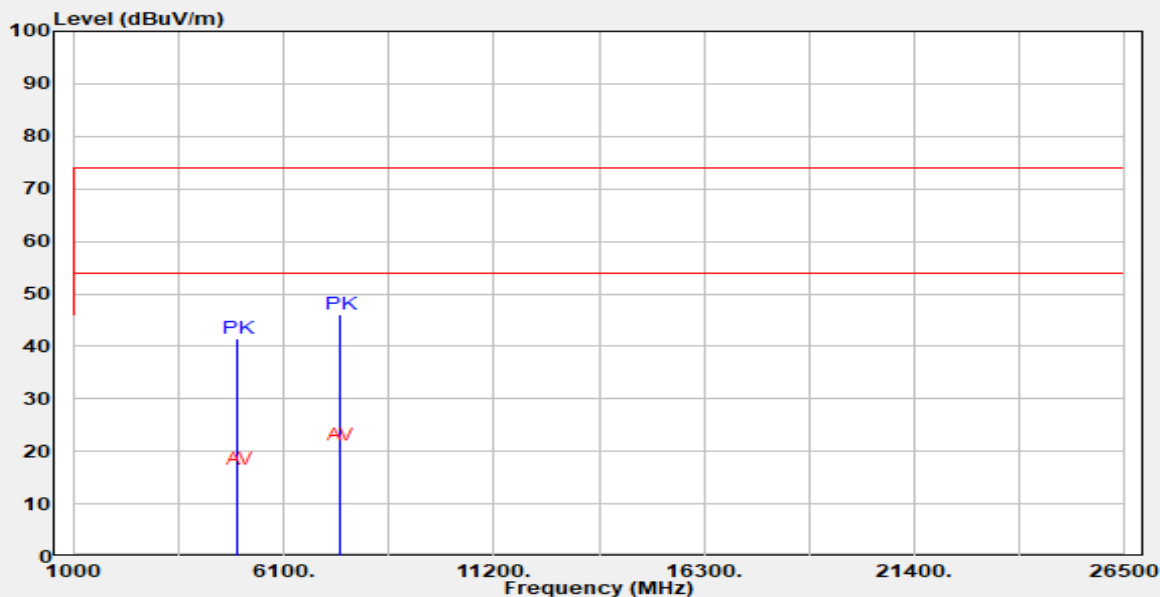
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Report Number :TERF2505001677ER  
 Operation Mode :BR  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Peak	41.88	-0.43	41.45	74.00	-32.55
4960.00	Average	-	-	16.64	54.00	-37.36
7440.00	Peak	40.90	5.09	45.99	74.00	-28.01
7440.00	Average	-	-	21.18	54.00	-32.82

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

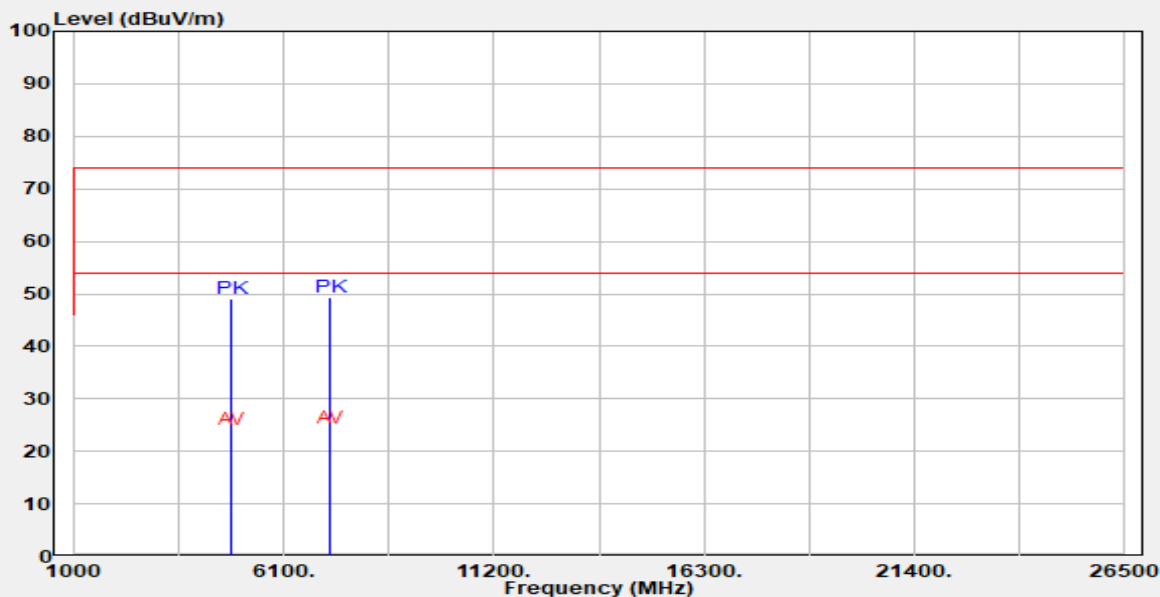
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.00	Peak	49.50	-0.58	48.92	74.00	-25.08
4804.00	Average	-	-	24.11	54.00	-29.89
7206.00	Peak	44.38	4.94	49.32	74.00	-24.68
7206.00	Average	-	-	24.51	54.00	-29.49

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

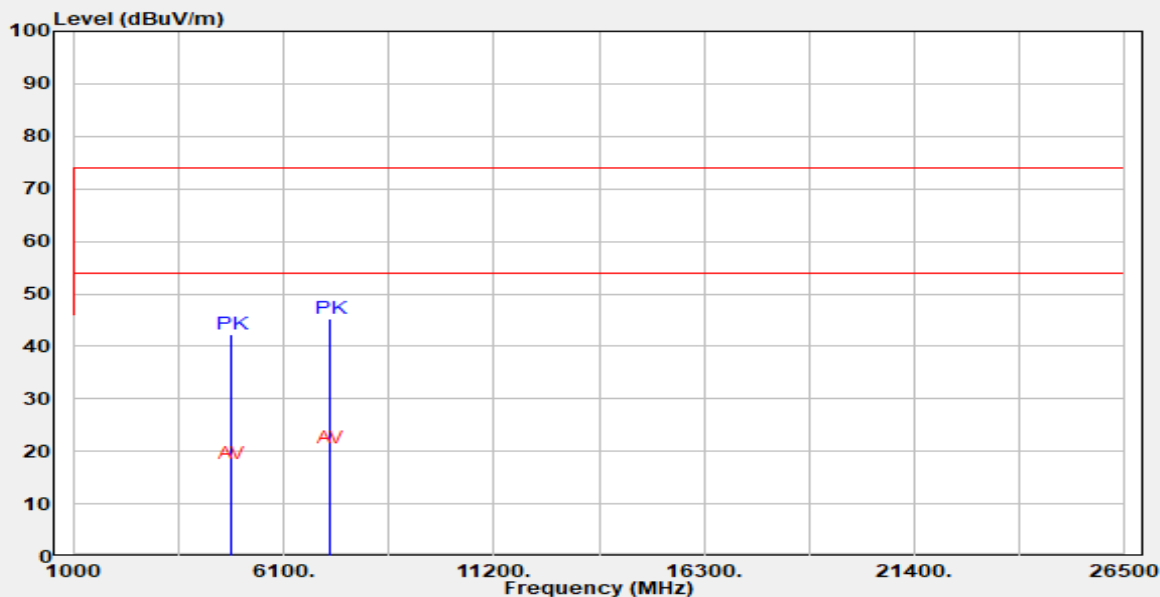
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.00	Peak	42.92	-0.58	42.34	74.00	-31.66
4804.00	Average	-	-	17.53	54.00	-36.47
7206.00	Peak	40.36	4.94	45.30	74.00	-28.70
7206.00	Average	-	-	20.49	54.00	-33.51

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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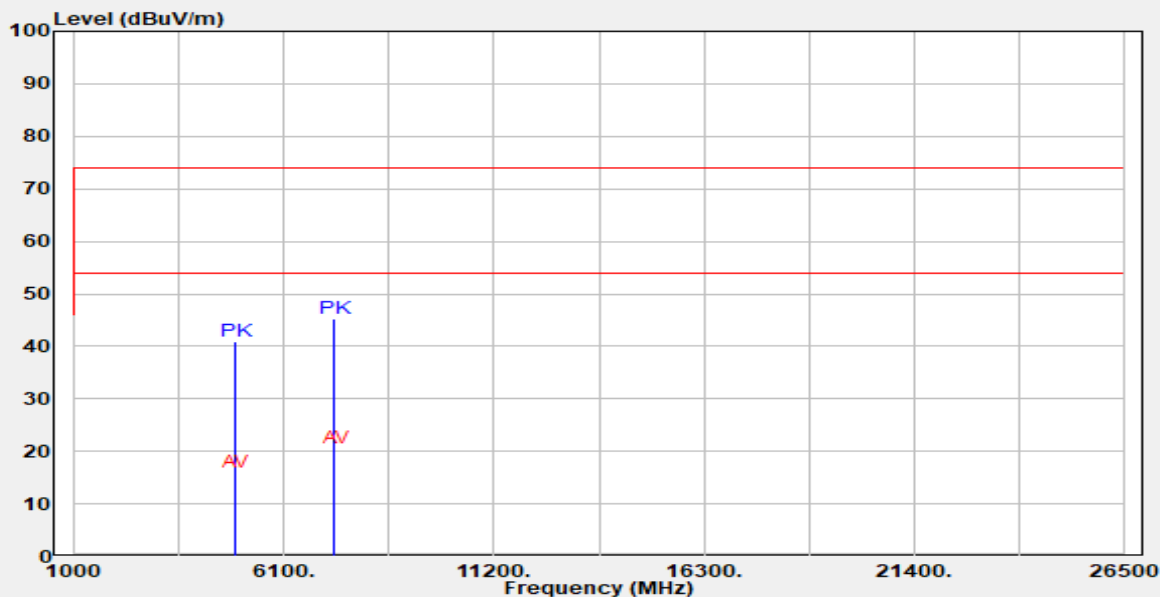
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2441 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



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	41.53	-0.68	40.85	74.00	-33.15
4882.00	Average	-	-	16.04	54.00	-37.96
7323.00	Peak	40.17	5.17	45.34	74.00	-28.66
7323.00	Average	-	-	20.53	54.00	-33.47

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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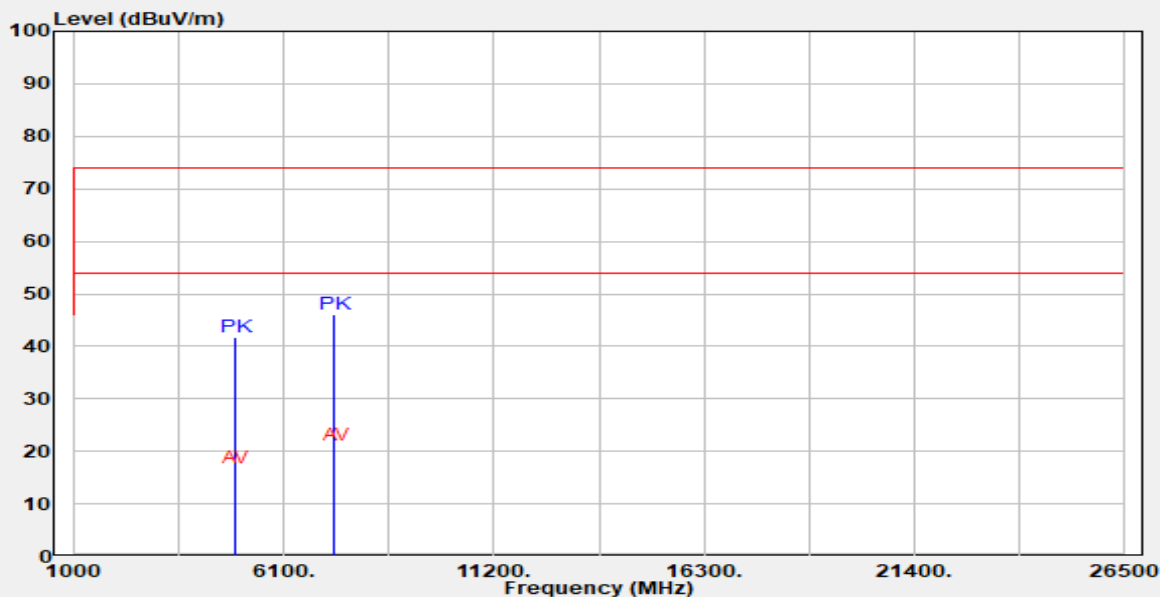
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2441 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



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	Peak	42.29	-0.68	41.61	74.00	-32.39
4882.00	Average	-	-	16.80	54.00	-37.20
7323.00	Peak	40.78	5.17	45.95	74.00	-28.05
7323.00	Average	-	-	21.14	54.00	-32.86

Average Duty Cycle Factor=-24.81 (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.

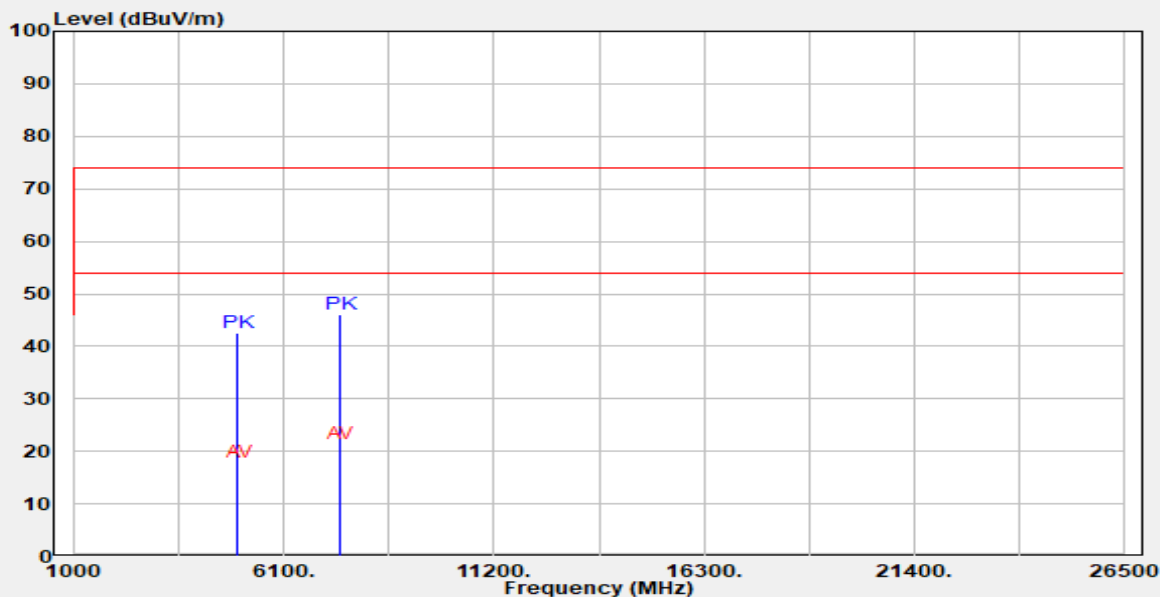
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Vertical  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Peak	42.99	-0.43	42.56	74.00	-31.44
4960.00	Average	-	-	17.75	54.00	-36.25
7440.00	Peak	41.02	5.09	46.11	74.00	-27.89
7440.00	Average	-	-	21.30	54.00	-32.70

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

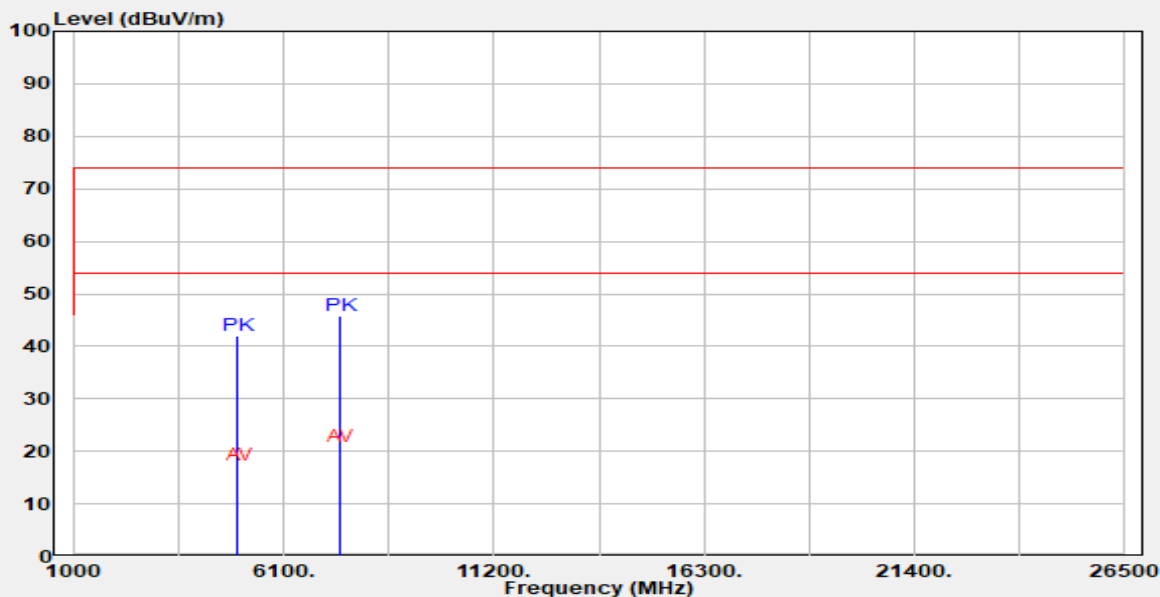
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Report Number :TERF2505001677ER  
 Operation Mode :EDR 2M  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC 3  
 Test Date :2025-06-05  
 Temp./Humi. :24.2°C/66%  
 Antenna Pol. :Horizontal  
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Peak	42.53	-0.43	42.10	74.00	-31.90
4960.00	Average	-	-	17.29	54.00	-36.71
7440.00	Peak	40.68	5.09	45.77	74.00	-28.23
7440.00	Average	-	-	20.96	54.00	-33.04

Average Duty Cycle Factor=-24.81 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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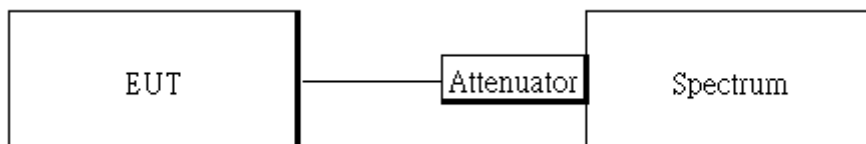
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## 13 NUMBER OF HOPPING FREQUENCY

### 13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

### 13.2 Test Setup



### 13.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW = 30% of the channel spacing, VBW  $\geq$  RBW., Detector = Peak
6. Max hold, view and count how many channel in the band.

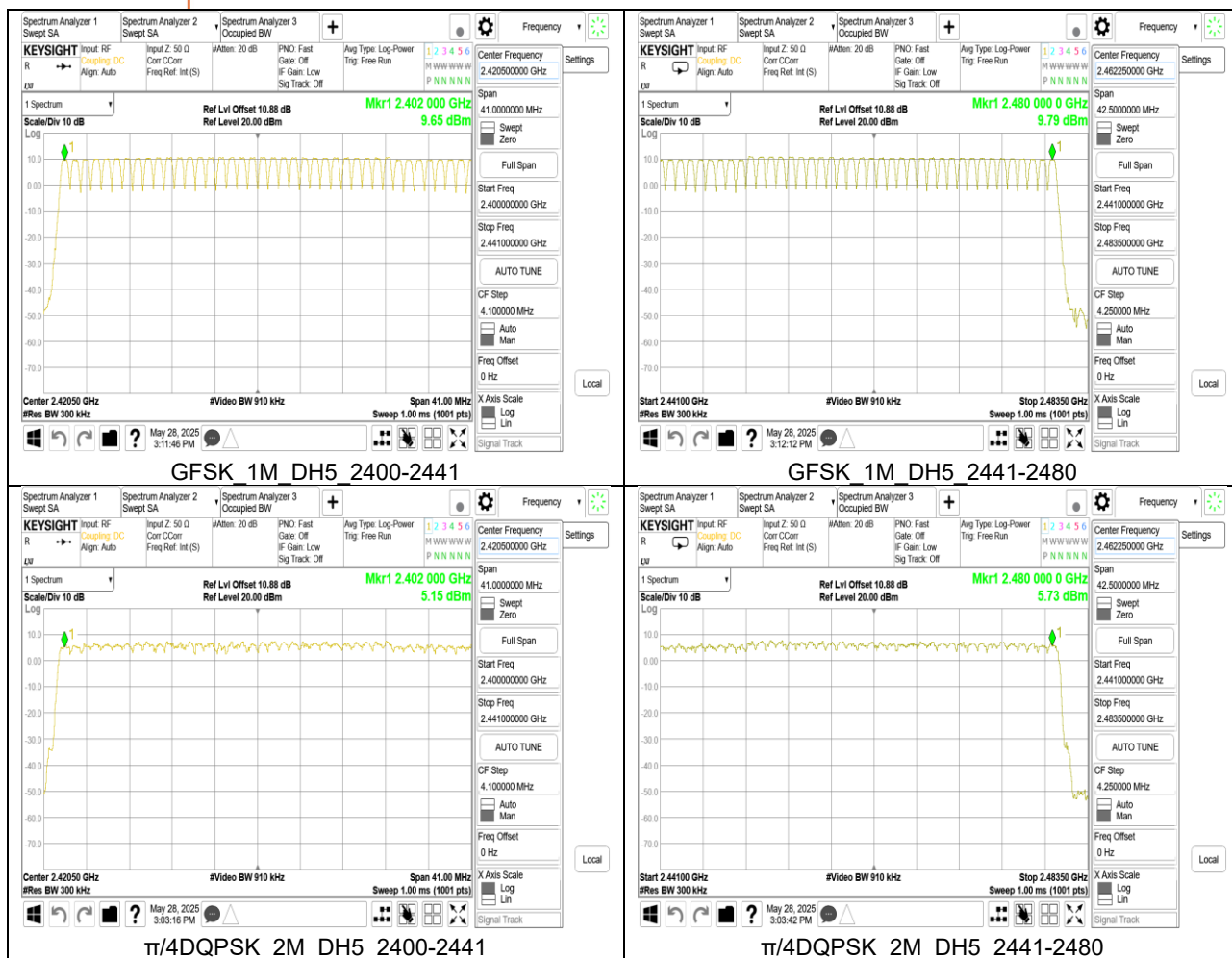
### 13.4 Measurement Result

#### Tabular Data of Total Channel Number

	<i>Channel Number</i>	<i>Limit</i>
<b>2.4 GHz – 2.441 GHz</b>	<b>40</b>	<b>&gt;15</b>
<b>2.441 GHz – 2.4835 GHz</b>	<b>39</b>	
<b>2.4 GHz ~2.4835 GHz</b>	<b>(40+39) = 79</b>	

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