

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



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

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

Product Name: 11ax RTL8852CE Combo module

Brand Name: REALTEK

Model No.: RTL8852CE

FCC Host Model: GA63H, GA6xxx ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank)

Report Number: TERF2503001182E2

FCC ID TX2-RTL8852CE

Date of EUT Received: March 25, 2025

Date of Test: March 26, 2025 ~ April 15, 2025

Issue Date: May 9, 2025

Approved By

Aken Huang

Aken Huang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

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
TERF2503001182E2	00	Original	May 9, 2025	Susan Lin	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	Wireless module installed in Notebook
Brand Name:	REALTEK
Model No.:	RTL8852CE
Host Brand Name:	GIGABYTE
FCC Host Model:	GA63H, GA6xxx ("x" means 20 alphanumeric, maybe 0-9, A-Z, -, _, + or blank)
Family FCC Host Model Difference:	For marketing purposes only
Hardware Version:	N/A
Firmware Version:	v0.27.109.1
EUT Series No.:	EC016EEE-B7B9-487C-A828-F75F824F0D3D
Power Supply:	15.56 Vdc from Rechargeable Li-ion Battery 20 Vdc from AC/DC Adapter
Test Software (Name/Version):	REALTEK Version:mp_v2.0.41

1.2 Modulation & Data Rate

Modulation type:	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
Transition Rate:	802.11ax_HE20: up to 286.8 Mbps
	802.11ax_HE40: up to 573.6 Mbps
	802.11ax_HE80: up to 1201 Mbps
	802.11ax_HE160: up to 2402 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	High-tek	0ACCN024021N (DC33002YL20)	5925~6425	2.78
			6425~6525	3.43
			6525~6875	2.44
			6875~7125	3.02
	High-tek	0ACCN024022N (DC33002YL30)	5925~6425	3.12
			6425~6525	2.05
			6525~6875	2.71
			6875~7125	3.69
	PULSE	TZ3138D (DC330031400)	5925~6425	2.62
			6425~6525	3.17
			6525~6875	2.25
			6875~7125	2.64
	PULSE	TZ3138E (DC330031410)	5925~6425	2.85
			6425~6525	1.96
			6525~6875	2.57
			6875~7125	2.20

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Rated Power

WLAN 6E

Mode	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11ax_HE20	5955~6415	24	10.06 dBm
	6435~6515	5	10.55 dBm
	6535~6875	18	9.64 dBm
	6895~6995	6	10.51 dBm
802.11ax_HE40	5965~6405	12	13.07 dBm
	6445~6525	3	13.38 dBm
	6565~6845	8	12.90 dBm
	6885~7085	6	14.10 dBm
802.11ax_HE80	5985~6385	6	13.87 dBm
	6465	1	14.26 dBm
	6545~6865	5	13.70 dBm
	6945~7025	2	14.68 dBm
802.11ax_HE160	6025~6345	3	15.49 dBm
	6505	1	12.84 dBm
	6665~6825	2	14.60 dBm
	6985	1	14.51 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

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

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

2.5 Test Configuration

Conducted Setup	Radiated Setup
	

2.6 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)(4~9)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)(6), (b)(8),(9),(10)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz

20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025
5	5975	53	6215	11	6005	23	6065	47	6185
9	5995	57	6235	19	6045	39	6225	79	6345
13	6015	61	6255	27	6085	55	6225		
17	6035	65	6275	35	6125	71	6305		
21	6055	69	6295	43	6205	87	6385		
25	6075	73	6315	51	6205				
29	6095	77	6335	59	6245				
33	6115	81	6355	67	6285				
37	6135	85	6375	75	6325				
41	6155	89	6395	83	6365				
45	6195	93	6415	91	6405				

UNII-6 6425~6525 MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
97	6435	99	6445	103	6465	111	6505
101	6455	107	6485				
105	6475	115	6525				
109	6495						
113	6515						

UNII-7 6525~6875 MHz

20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665
121	6555	157	6735	131	6605	135	6625	175	6825
125	6575	161	6755	139	6645	151	6705		
129	6595	165	6775	147	6685	167	6785		
133	6615	169	6795	155	6725	183	6865		
137	6635	173	6815	163	6765				
141	6655	177	6835	171	6805				
145	6675	181	6855	179	6845				
149	6695	185	6875						

UNII-8 6875~7125 MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
189	6895	187	6885	199	6945	207	6985
193	6915	195	6925	215	7025		
197	6935	203	6965				
201	6955	211	7005				
205	6975	219	7045				
209	6995	227	7085				

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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 mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

Mode		Transmission Chain								Single Transmission Spatial		Multiple Transmission Spatial	
	802.11 a		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 n		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX		2TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,49,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~6995	189 to 209	189,209				
802.11ax_HE40	5965~6405	3 to 91	3,51,91	OFDMA	FULL RU	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,55,87	OFDMA	FULL RU	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11ax40	5965~6405	3 to 91	51	OFDMA	MCS0	full	Ch0
	6445~6525	99 to 115	107	OFDMA			
	6565~6845	123 to 179	147	OFDMA			
	6885~7085	187 to 227	211	OFDMA			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	RU CONFIGURATION	ANTENNA PORT
802.11ax20	5955~6415	1 to 93	1	OFDMA	MCS0	full	Ch0
	6895~7115	189 to 233	209	OFDMA			
802.11ax40	5965~6405	3 to 91	3,51	OFDMA	MCS0	full	Ch0
	6445~6525	99 to 115	107	OFDMA			
	6565~6845	123 to 179	147	OFDMA			
	6885~7085	187 to 227	211,227	OFDMA			
802.11ax80	5985~6385	7 to 87	7	OFDMA	MCS0	full	Ch0
	6945~7025	199 to 215	215	OFDMA			
802.11ax160	6025~6345	15 to 79	15	OFDMA	MCS0	full	Ch0
	6985	207	207	OFDMA			

Note:

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.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	1.54	dB
Emission Bandwidth	+/-	1.38	Hz
Output Power measurement	+/-	0.97	dB
Peak Power Spectral Density Measurement	+/-	0.61	dB
Frequency Stability	+/-	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 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF06	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF157	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
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026

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	03/30/2025	03/29/2026
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+SUCOFLEX10 0+EMC104-SM-SM- 2000+EMC104-SM- SM-8000+EMC104- SM-SM-5000	210216+210217+8 4103701/15+16010 5+210217+210220	11/14/2024	11/13/2025
High Pass Filter	WI	WHKX7.0/18G-8SS- SN46	RF183	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	EWT-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/14/2024	11/13/2025
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 MAXIMUM OUTPUT POWER

7.1 Standard Applicable

7.1.1 Duty Cycle

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

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

7.1.2 Output Power

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.
- (9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed -5 dBm e.i.r.p in any 1-megahertz band and the maximum e.i.r.p must not exceed 14 dBm.

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EUT CATEGORY		Equip- ment Class	§15.407(a)
☐	Very low power devices	VLP	EIRP < 14dBm
☐	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 de- grees < 21dBm EIRP for outdoor use
☐	indoor Access Point	6ID	EIRP < 30dBm
☐	Subordinate Device	6PP	EIRP < 30dBm
☐	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 de- grees < 21dBm EIRP for outdoor use
☒	Indoor Client	6XD	EIRP < 24dBm
☐	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized trans-mit power
☐	Dual Client	6CD	Compliance both indoor client and standard client limit

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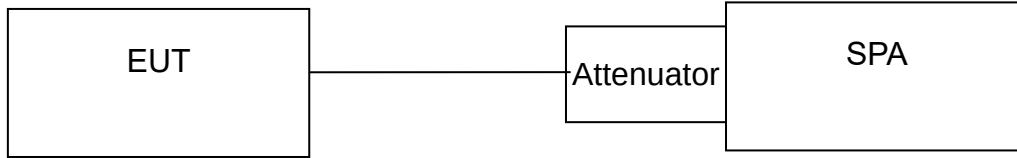
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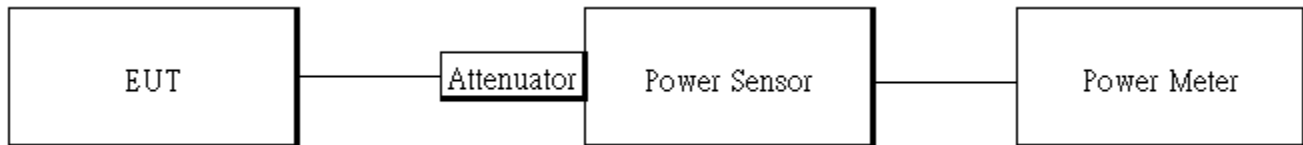
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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7.3 Measurement Procedure

7.3.1 Duty Cycle

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

7.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

7.4 Duty Cycle Measurement Result

Mode	RU Config	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	97.05	0.13	1.01	2.00
	26 RU	99.39	0.03	0.20	0.01
	52 RU	98.80	0.05	0.40	0.01
	106 RU	97.56	0.11	0.83	1.00
802.11ax_40	Full	94.55	0.24	1.92	2.00
802.11ax_80	Full	90.32	0.44	3.57	4.00
802.11ax_160	Full	85.71	0.67	5.95	6.00

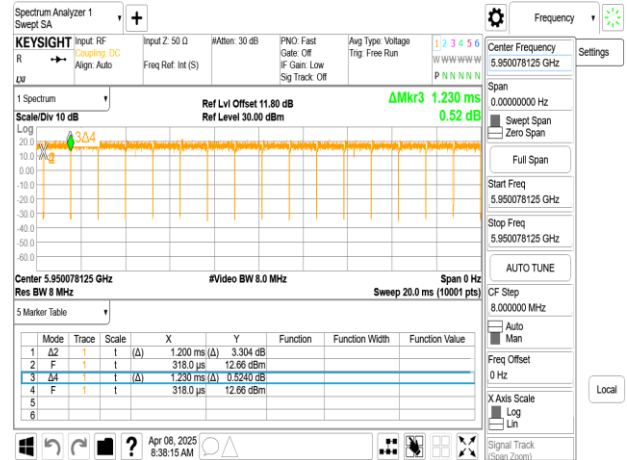
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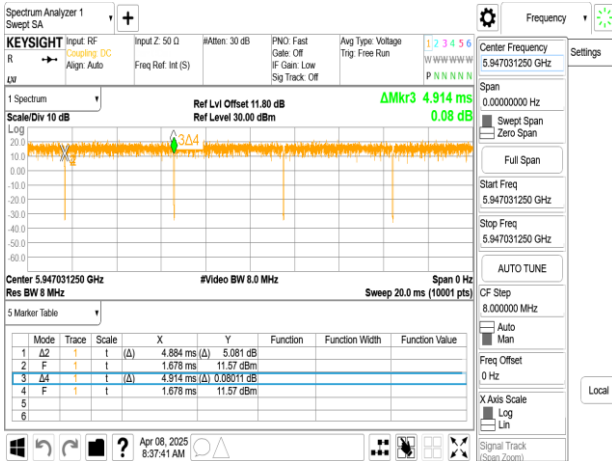
802.11ax_20MHz_Chain0_5955MHz



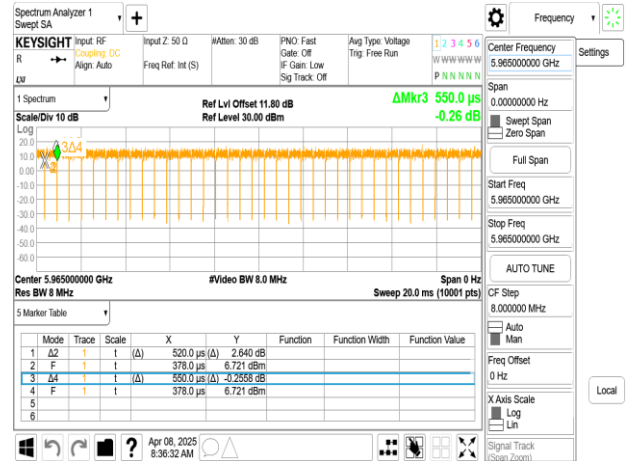
802.11ax_20MHz_Chain0_5955MHz_RU106_53



802.11ax_20MHz_Chain0_5955MHz_RU26_0



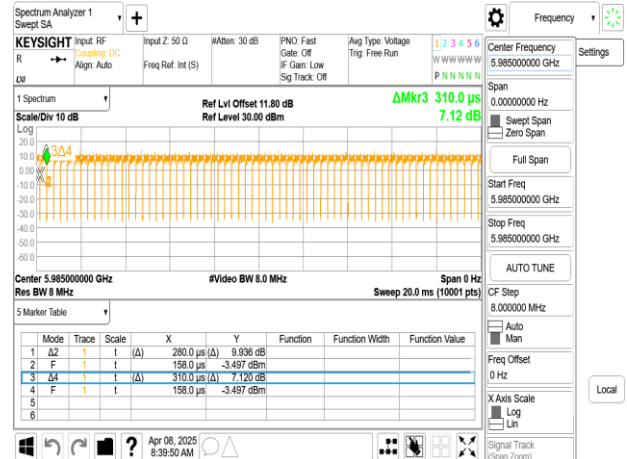
802.11ax_40MHz_Chain0_5965MHz



802.11ax_20MHz_Chain0_5955MHz_RU52_37



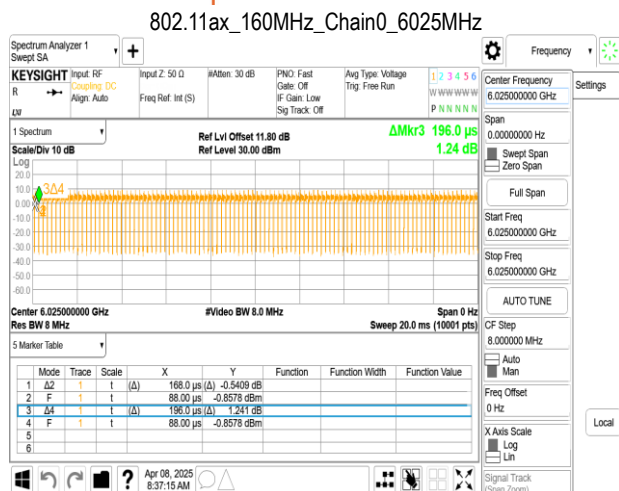
802.11ax_80MHz_Chain0_5985MHz



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7.5 Conducted output power

802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	6.98	2.78	9.76	24	PASS
		26/0	-2.24	2.78	0.54	24	PASS
		52/37	0.76	2.78	3.54	24	PASS
		106/53	3.62	2.78	6.40	24	PASS
49	6195	full	6.96	2.78	9.74	24	PASS
93	6415	full	6.99	2.78	9.77	24	PASS
		26/8	-2.33	2.78	0.45	24	PASS
		52/40	0.79	2.78	3.57	24	PASS
		106/54	3.39	2.78	6.17	24	PASS
97	6435	full	6.96	3.43	10.39	24	PASS
		26/0	-2.49	3.43	0.94	24	PASS
		52/37	0.53	3.43	3.96	24	PASS
		106/53	3.47	3.43	6.90	24	PASS
105	6475	full	6.98	3.43	10.41	24	PASS
113	6515	full	7.12	3.43	10.55	24	PASS
		26/8	-2.36	3.43	1.07	24	PASS
		52/40	0.65	3.43	4.08	24	PASS
		106/54	3.57	3.43	7.00	24	PASS
117	6535	full	7.00	2.44	9.44	24	PASS
		26/0	-2.80	2.44	-0.36	24	PASS
		52/37	0.69	2.44	3.13	24	PASS
		106/53	3.49	2.44	5.93	24	PASS
149	6695	full	7.03	2.44	9.47	24	PASS
181	6855	full	7.01	2.44	9.45	24	PASS
		26/8	-2.74	2.44	-0.30	24	PASS
		52/40	0.80	2.44	3.24	24	PASS
		106/54	3.60	2.44	6.04	24	PASS
189	6895	full	6.98	3.02	10.00	24	PASS
		26/0	-2.38	3.02	0.64	24	PASS
		52/37	0.76	3.02	3.78	24	PASS
		106/53	3.40	3.02	6.42	24	PASS
209	6995	full	6.90	3.02	9.92	24	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	6.94	3.12	10.06	24	PASS
		26/0	-2.59	3.12	0.53	24	PASS
		52/37	0.67	3.12	3.79	24	PASS
		106/53	3.34	3.12	6.46	24	PASS
49	6195	full	6.83	3.12	9.95	24	PASS
93	6415	full	6.74	3.12	9.86	24	PASS
		26/8	-2.48	3.12	0.64	24	PASS
		52/40	0.55	3.12	3.67	24	PASS
		106/54	3.15	3.12	6.27	24	PASS
97	6435	full	6.65	2.05	8.70	24	PASS
		26/0	-2.75	2.05	-0.70	24	PASS
		52/37	0.45	2.05	2.50	24	PASS
		106/53	3.27	2.05	5.32	24	PASS
105	6475	full	6.79	2.05	8.84	24	PASS
113	6515	full	6.82	2.05	8.87	24	PASS
		26/8	-2.71	2.05	-0.66	24	PASS
		52/40	0.38	2.05	2.43	24	PASS
		106/54	3.36	2.05	5.41	24	PASS
117	6535	full	6.57	2.71	9.28	24	PASS
		26/0	-2.95	2.71	-0.24	24	PASS
		52/37	0.50	2.71	3.21	24	PASS
		106/53	3.36	2.71	6.07	24	PASS
149	6695	full	6.93	2.71	9.64	24	PASS
181	6855	full	6.82	2.71	9.53	24	PASS
		26/8	-2.89	2.71	-0.18	24	PASS
		52/40	0.61	2.71	3.32	24	PASS
		106/54	3.29	2.71	6.00	24	PASS
189	6895	full	6.82	3.69	10.51	24	PASS
		26/0	-2.51	3.69	1.18	24	PASS
		52/37	0.57	3.69	4.26	24	PASS
		106/53	3.16	3.69	6.85	24	PASS
209	6995	full	6.59	3.69	10.28	24	PASS

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802.11ax_20_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			Ch0	Ch1					
1	5955	full	0.72	0.70	3.72	2.95	6.67	24	PASS
		26/0	-8.48	-8.36	-5.41	2.95	-2.46	24	PASS
		52/37	-5.33	-4.91	-2.10	2.95	0.85	24	PASS
		106/53	-2.23	-3.04	0.39	2.95	3.34	24	PASS
49	6195	full	0.74	0.68	3.72	2.95	6.67	24	PASS
93	6415	full	0.70	0.62	3.67	2.95	6.62	24	PASS
		26/8	-8.14	-8.03	-5.08	2.95	-2.12	24	PASS
		52/40	-5.43	-4.95	-2.17	2.95	0.78	24	PASS
		106/54	-2.26	-3.08	0.36	2.95	3.31	24	PASS
97	6435	full	0.90	0.90	3.91	2.79	6.70	24	PASS
		26/0	-8.39	-8.27	-5.32	2.79	-2.53	24	PASS
		52/37	-5.32	-4.94	-2.11	2.79	0.68	24	PASS
		106/53	-2.25	-3.03	0.39	2.79	3.18	24	PASS
105	6475	full	0.77	0.82	3.81	2.79	6.60	24	PASS
113	6515	full	1.04	0.95	4.01	2.79	6.80	24	PASS
		26/8	-8.57	-8.65	-5.60	2.79	-2.81	24	PASS
		52/40	-5.32	-5.06	-2.18	2.79	0.62	24	PASS
		106/54	-2.21	-2.80	0.51	2.79	3.31	24	PASS
117	6535	full	1.28	0.97	4.14	2.58	6.72	24	PASS
		26/0	-8.43	-8.68	-5.55	2.58	-2.97	24	PASS
		52/37	-5.47	-5.06	-2.25	2.58	0.33	24	PASS
		106/53	-2.26	-2.83	0.47	2.58	3.05	24	PASS
149	6695	full	1.08	0.90	4.00	2.58	6.58	24	PASS
181	6855	full	0.56	0.70	3.64	2.58	6.22	24	PASS
		26/8	-8.14	-8.43	-5.28	2.58	-2.70	24	PASS
		52/40	-5.41	-5.01	-2.19	2.58	0.38	24	PASS
		106/54	-2.47	-2.90	0.33	2.58	2.90	24	PASS
189	6895	full	1.10	0.81	3.97	3.37	7.34	24	PASS
		26/0	-8.07	-8.21	-5.13	3.37	-1.76	24	PASS
		52/37	-5.27	-4.92	-2.08	3.37	1.29	24	PASS
		106/53	-2.73	-1.79	0.77	3.37	4.14	24	PASS
209	6995	full	0.65	0.77	3.72	3.37	7.09	24	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	9.83	2.78	12.61	24	PASS
51	6205	full	9.99	2.78	12.77	24	PASS
91	6405	full	9.99	2.78	12.77	24	PASS
99	6445	full	9.95	3.43	13.38	24	PASS
107	6485	full	9.91	3.43	13.34	24	PASS
123	6565	full	9.97	2.44	12.41	24	PASS
147	6685	full	9.94	2.44	12.38	24	PASS
179	6845	full	0.24	2.44	2.68	24	PASS
195	6925	full	10.57	3.02	13.59	24	PASS
211	7005	full	9.94	3.02	12.96	24	PASS
227	7085	full	9.93	3.02	12.95	24	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	9.92	3.12	13.04	24	PASS
51	6205	full	9.95	3.12	13.07	24	PASS
91	6405	full	9.88	3.12	13.00	24	PASS
99	6445	full	10.20	2.05	12.25	24	PASS
107	6485	full	10.18	2.05	12.23	24	PASS
123	6565	full	10.16	2.71	12.87	24	PASS
147	6685	full	10.19	2.71	12.90	24	PASS
179	6845	full	0.24	2.71	2.95	24	PASS
195	6925	full	10.41	3.69	14.10	24	PASS
211	7005	full	9.95	3.69	13.64	24	PASS
227	7085	full	10.20	3.69	13.89	24	PASS

802.11ax_40_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			Ch0	Ch1					
3	5965	full	4.28	4.01	7.16	2.95	10.11	24	PASS
51	6205	full	4.12	4.04	7.09	2.95	10.05	24	PASS
91	6405	full	4.18	3.79	7.00	2.95	9.96	24	PASS
99	6445	full	4.02	3.93	6.99	2.79	9.78	24	PASS
107	6485	full	4.03	3.84	6.95	2.79	9.74	24	PASS
123	6565	full	4.08	4.07	7.09	2.58	9.67	24	PASS
147	6685	full	4.01	4.11	7.07	2.58	9.65	24	PASS
179	6845	full	0.24	0.24	0.00	2.58	2.58	24	PASS
195	6925	full	4.31	4.22	7.28	3.37	10.65	24	PASS
211	7005	full	4.02	3.96	7.00	3.37	10.37	24	PASS
227	7085	full	4.44	4.25	7.36	3.37	10.73	24	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	10.79	2.78	13.57	24	PASS
55	6225	full	10.81	2.78	13.59	24	PASS
87	6385	full	10.70	2.78	13.48	24	PASS
103	6465	full	10.83	3.43	14.26	24	PASS
135	6625	full	10.77	2.44	13.21	24	PASS
151	6705	full	10.90	2.44	13.34	24	PASS
167	6785	full	10.96	2.44	13.40	24	PASS
199	6945	full	10.99	3.02	14.01	24	PASS
215	7025	full	10.93	3.02	13.95	24	PASS

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802.11ax_HE80_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	10.72	3.12	13.84	24	PASS
55	6225	full	10.75	3.12	13.87	24	PASS
87	6385	full	10.70	3.12	13.82	24	PASS
103	6465	full	10.74	2.05	12.79	24	PASS
135	6625	full	10.76	2.71	13.47	24	PASS
151	6705	full	10.92	2.71	13.63	24	PASS
167	6785	full	10.99	2.71	13.70	24	PASS
199	6945	full	10.95	3.69	14.64	24	PASS
215	7025	full	10.99	3.69	14.68	24	PASS

802.11ax_80_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			Ch0	Ch1					
7	5985	full	6.90	6.79	9.86	2.95	12.81	24	PASS
55	6225	full	6.75	6.59	9.68	2.95	12.64	24	PASS
87	6385	full	7.00	6.70	9.87	2.95	12.82	24	PASS
103	6465	full	6.81	6.71	9.77	2.79	12.57	24	PASS
135	6625	full	6.59	6.50	9.56	2.58	12.13	24	PASS
151	6705	full	6.54	6.52	9.54	2.58	12.12	24	PASS
167	6785	full	6.62	6.50	9.57	2.58	12.15	24	PASS
199	6945	full	6.93	6.85	9.90	3.37	13.27	24	PASS
215	7025	full	6.89	6.92	9.92	3.37	13.29	24	PASS

802.11ax_HE160_Ch0

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
15	6025	full	10.96	2.78	13.74	24	PASS
47	6185	full	10.78	2.78	13.56	24	PASS
79	6345	full	10.81	2.78	13.59	24	PASS
143	6665	full	10.91	2.44	13.35	24	PASS
207	6985	full	10.74	3.02	13.76	24	PASS

802.11ax_HE160_Ch1

CH	Frequency (MHz)	RU config.	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
15	6025	full	11.00	3.12	14.12	24	PASS
47	6185	full	10.85	3.12	13.97	24	PASS
79	6345	full	10.76	3.12	13.88	24	PASS
143	6665	full	10.88	2.71	13.59	24	PASS
207	6985	full	10.82	3.69	14.51	24	PASS

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802.11ax_160_2TX

CH	Frequency (MHz)	RU config.	Avg. Output Power(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			Ch0	Ch1					
15	6025	full	9.69	9.36	12.54	2.95	15.49	24	PASS
47	6185	full	9.02	8.91	11.98	2.95	14.93	24	PASS
79	6345	full	9.18	9.03	12.12	2.95	15.07	24	PASS
143	6665	full	9.05	8.98	12.03	2.58	14.60	24	PASS
207	6985	full	4.74	4.66	7.71	3.37	11.08	24	PASS

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8 UNDESIRABLE RADIATED EMISSIONS

8.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits set forth in §15.209.

The provisions of §15.205 apply to intentional radiators operating under this section.

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz) AV: -27 (dBm/MHz)	Peak: 88.2 (dBμV/m) AV: 68.2 (dBμV/m)

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.7$$

$$E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.7$$

Below 1G and restricted limit

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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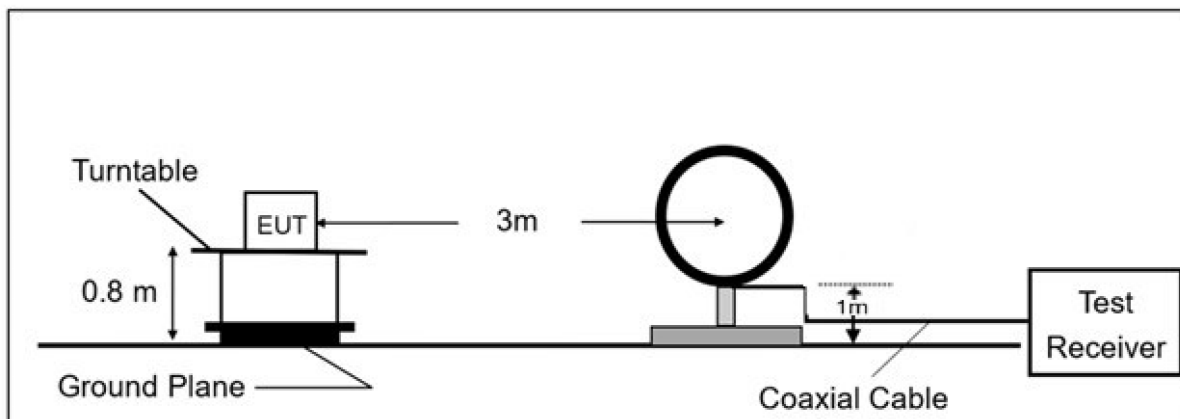
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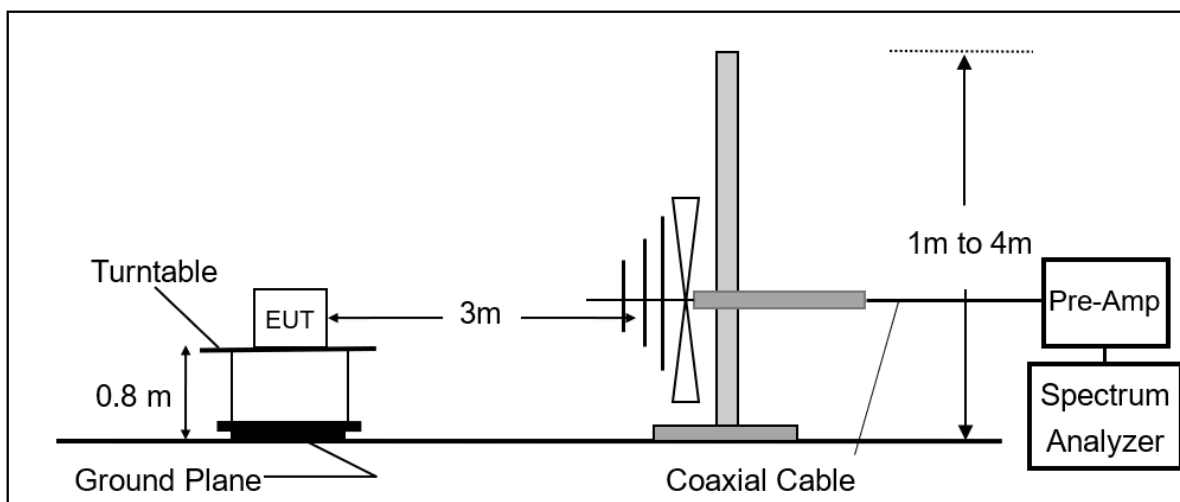
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8.2 Test Setup

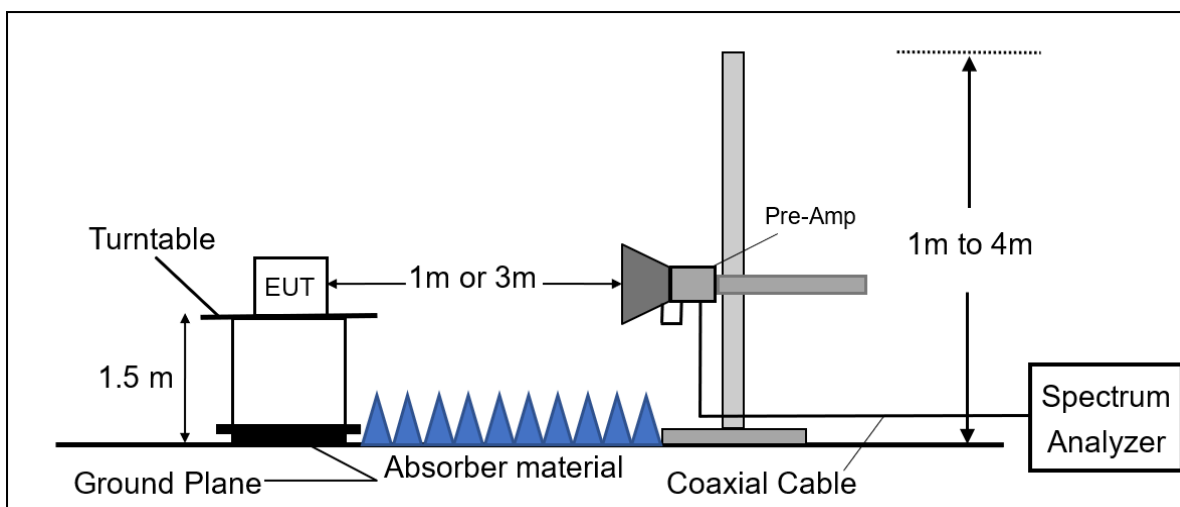
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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8.3 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency 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 $20 \cdot \log(uV/m)$

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

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

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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) was not reported.

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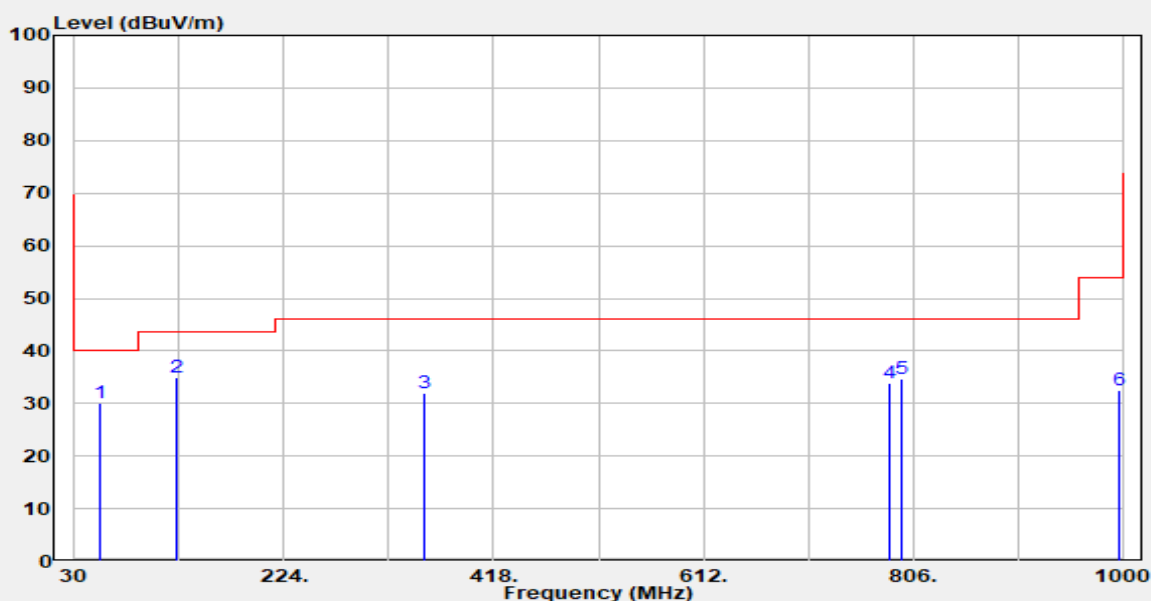
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8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6205
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



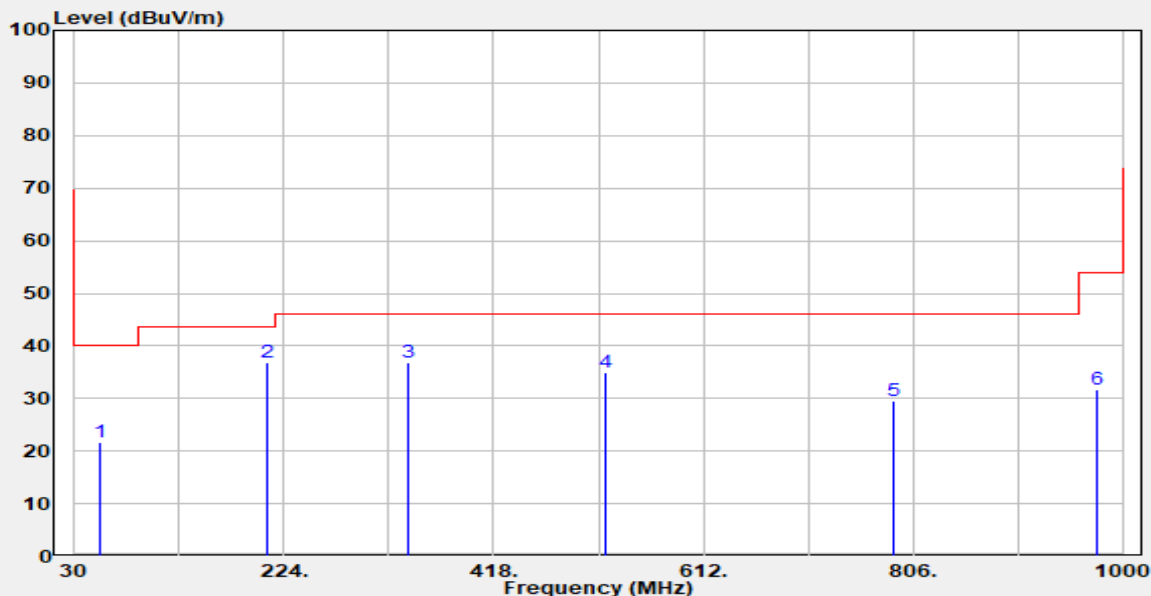
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	42.75	-12.63	30.12	40.00	-9.88
124.09	Peak	50.24	-15.30	34.94	43.50	-8.56
353.98	Peak	42.72	-10.83	31.89	46.00	-14.11
784.66	Peak	35.68	-1.68	34.00	46.00	-12.00
795.33	Peak	36.11	-1.54	34.57	46.00	-11.43
997.09	Peak	31.47	1.05	32.52	54.00	-21.48

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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6205
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 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
54.25	Peak	34.19	-12.63	21.56	40.00	-18.44
207.51	Peak	52.88	-16.02	36.86	43.50	-6.64
339.43	Peak	47.73	-10.93	36.80	46.00	-9.20
520.82	Peak	41.47	-6.59	34.88	46.00	-11.12
787.57	QP	31.30	-1.66	29.64	46.00	-16.36
976.72	Peak	30.95	0.81	31.76	54.00	-22.24

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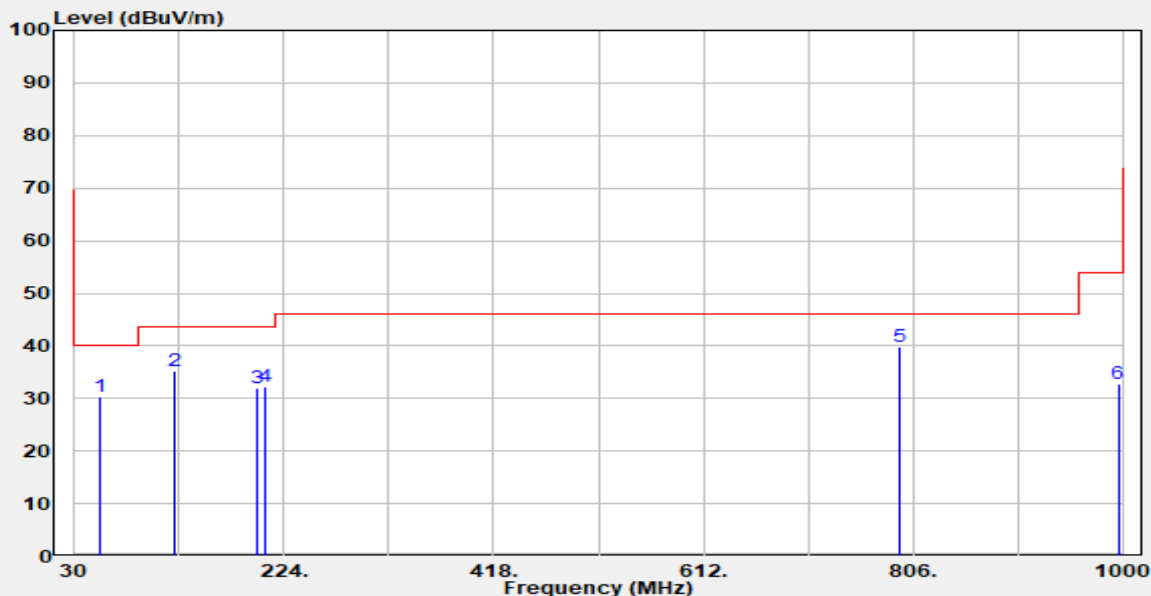
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6485
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 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
54.25	Peak	42.87	-12.63	30.24	40.00	-9.76
122.15	Peak	50.56	-15.34	35.22	43.50	-8.28
198.78	Peak	47.67	-15.64	32.03	43.50	-11.47
205.57	Peak	48.34	-16.02	32.32	43.50	-11.18
794.36	Peak	41.31	-1.55	39.76	46.00	-6.24
996.12	Peak	31.68	1.05	32.73	54.00	-21.27

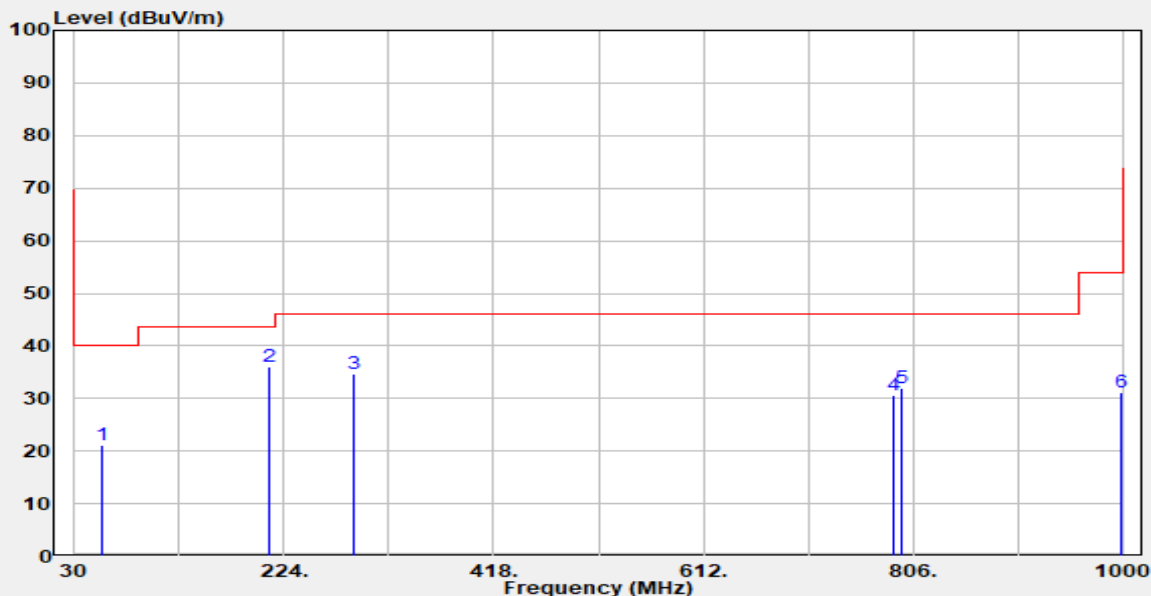
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 Test Frequency :6485
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 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
55.22	Peak	34.02	-12.76	21.26	40.00	-18.74
209.45	Peak	52.03	-16.01	36.02	43.50	-7.48
288.02	Peak	46.89	-12.17	34.72	46.00	-11.28
787.57	QP	32.30	-1.66	30.64	46.00	-15.36
795.33	QP	33.60	-1.54	32.06	46.00	-13.94
998.06	Peak	30.09	1.04	31.13	54.00	-22.87

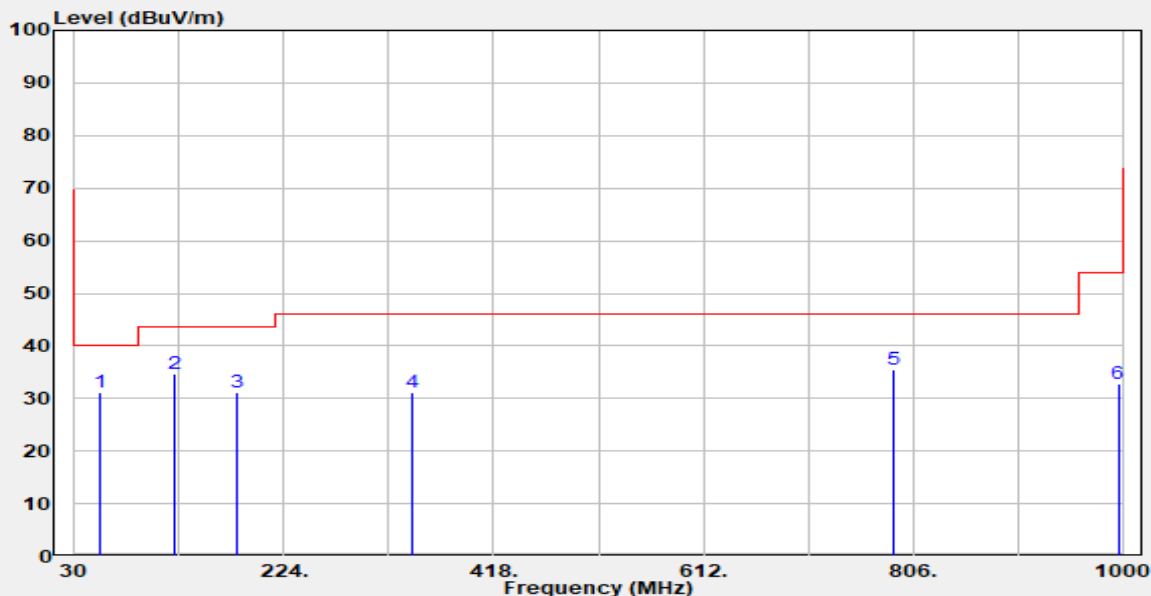
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 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 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
54.25	Peak	43.83	-12.63	31.20	40.00	-8.80
122.15	Peak	50.12	-15.34	34.78	43.50	-8.72
180.35	Peak	45.54	-14.41	31.13	43.50	-12.37
343.31	Peak	42.17	-10.94	31.23	46.00	-14.77
787.57	Peak	37.24	-1.66	35.58	46.00	-10.42
996.12	Peak	31.72	1.05	32.77	54.00	-21.23

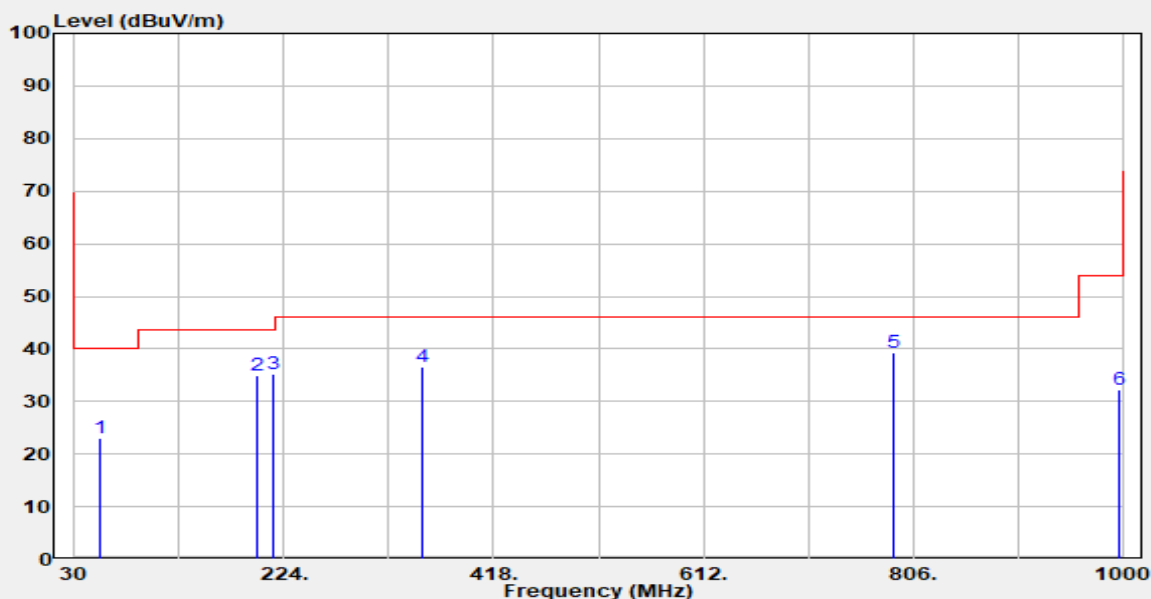
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Test Site :SAC G
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 Temp./Humi. :22.5°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



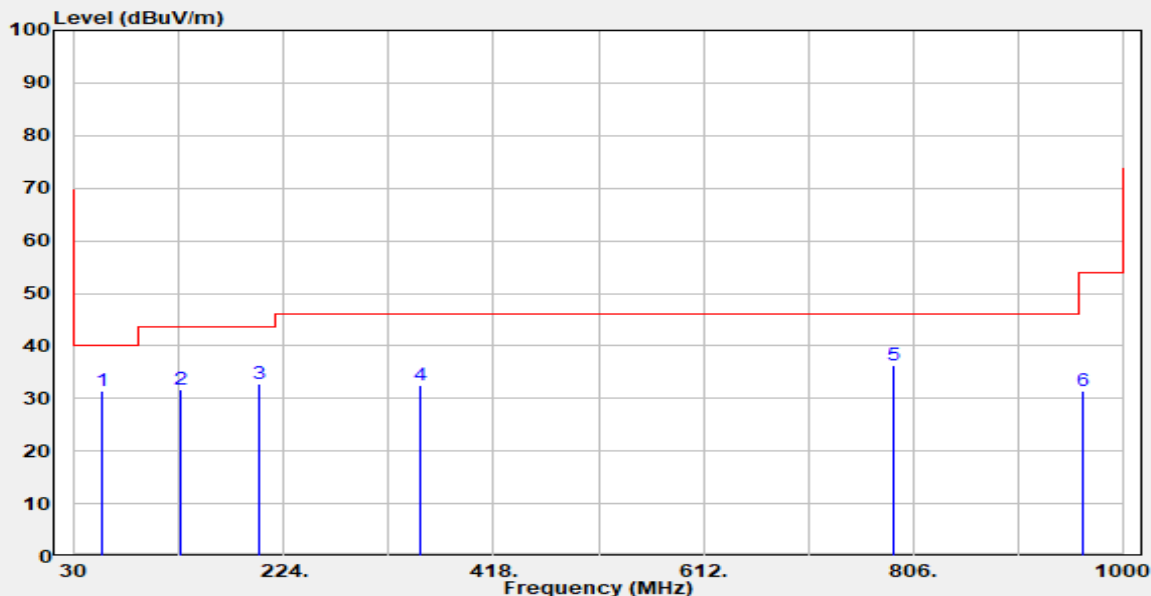
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	35.75	-12.63	23.12	40.00	-16.88
199.75	Peak	50.63	-15.72	34.91	43.50	-8.59
213.33	Peak	51.22	-15.93	35.29	43.50	-8.21
351.07	Peak	47.44	-10.90	36.54	46.00	-9.46
788.54	Peak	40.99	-1.65	39.34	46.00	-6.66
997.09	Peak	31.09	1.05	32.14	54.00	-21.86

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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7005
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 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
55.22	Peak	44.23	-12.76	31.47	40.00	-8.53
127.97	Peak	46.62	-14.81	31.81	43.50	-11.69
200.72	Peak	48.67	-15.78	32.89	43.50	-10.61
350.10	Peak	43.38	-10.92	32.46	46.00	-13.54
787.57	Peak	38.00	-1.66	36.34	46.00	-9.66
964.11	Peak	30.61	0.73	31.34	54.00	-22.66

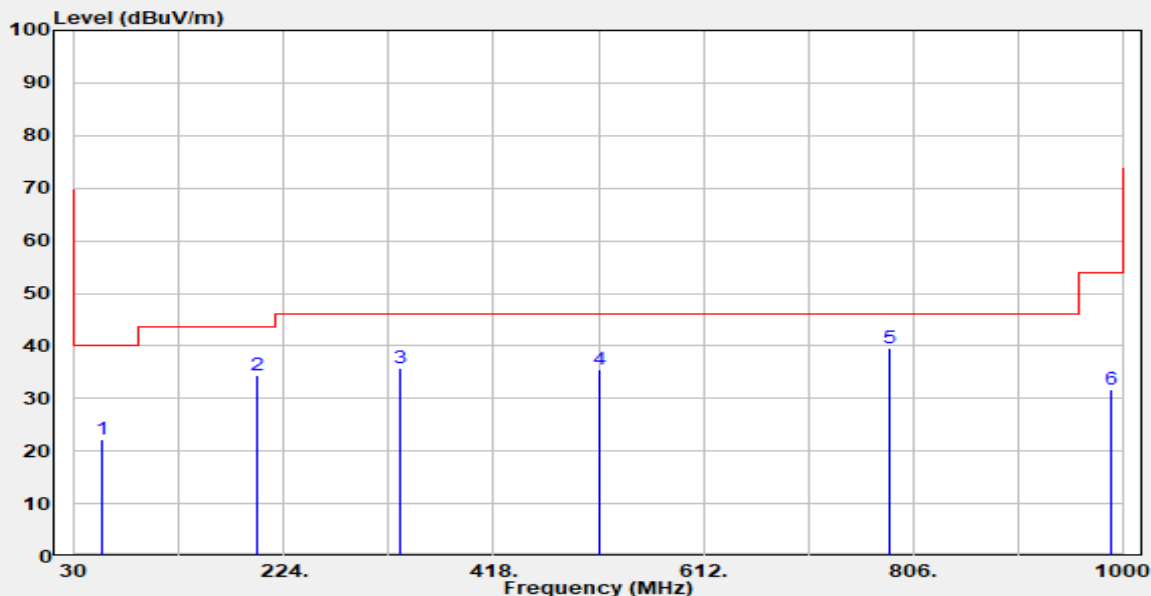
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7005
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-11
 Temp./Humi. :22.5°C/60%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
55.22	Peak	34.87	-12.76	22.11	40.00	-17.89
199.75	Peak	50.23	-15.72	34.51	43.50	-8.99
330.70	Peak	46.64	-11.00	35.64	46.00	-10.36
515.97	Peak	42.14	-6.75	35.39	46.00	-10.61
783.69	Peak	41.20	-1.68	39.52	46.00	-6.48
989.33	Peak	30.85	0.93	31.78	54.00	-22.22

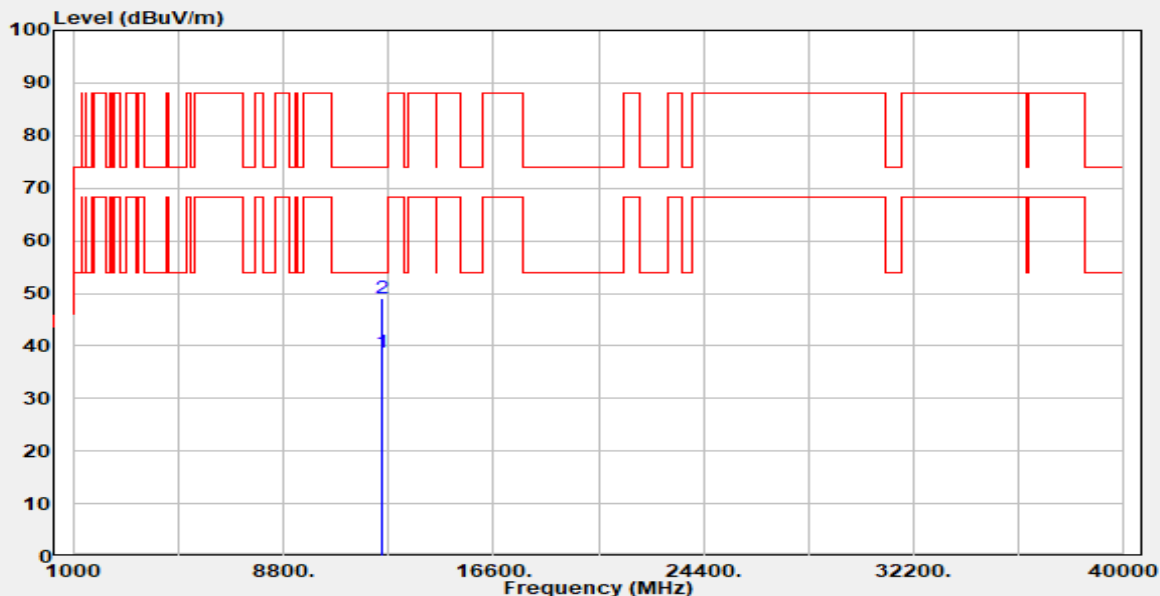
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6205
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
12410.00	Average	28.44	10.39	38.83	54.00	-15.17
12410.00	Peak	38.66	10.39	49.05	74.00	-24.95

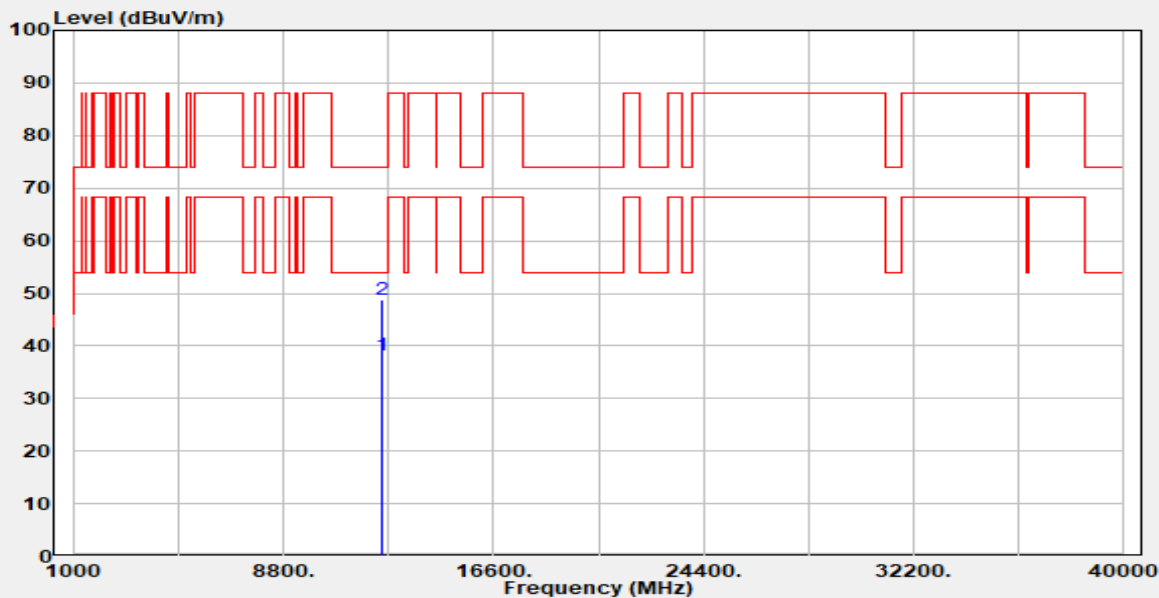
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6205
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 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
12410.00	Average	27.82	10.39	38.21	54.00	-15.79
12410.00	Peak	38.35	10.39	48.74	74.00	-25.26

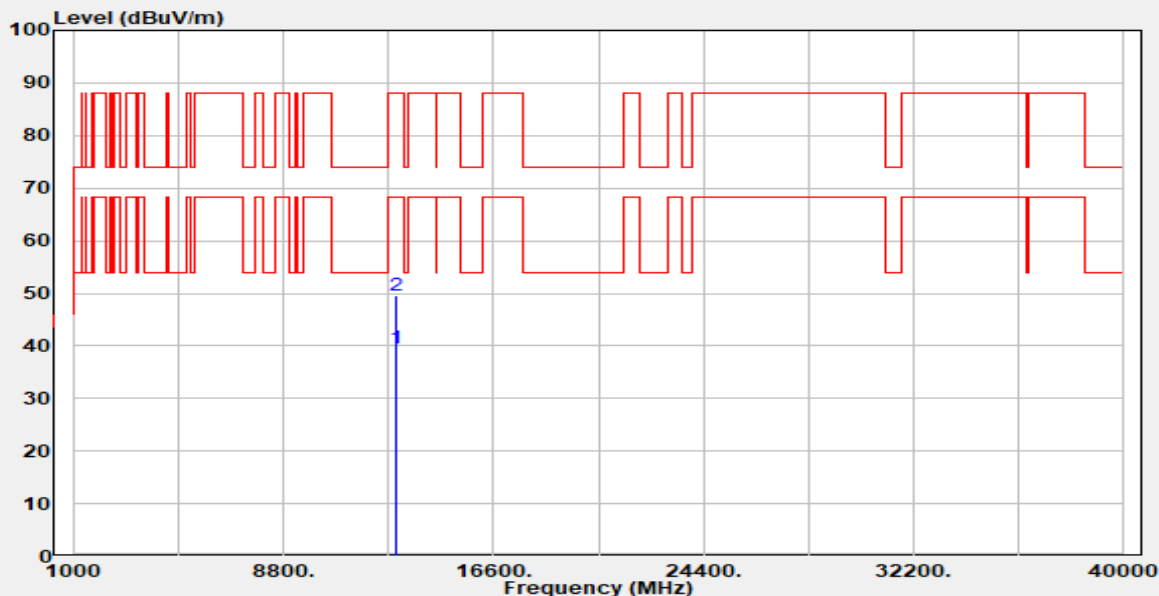
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6485
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
12970.00	Average	27.65	11.87	39.52	68.20	-28.68
12970.00	Peak	37.74	11.87	49.61	88.20	-38.59

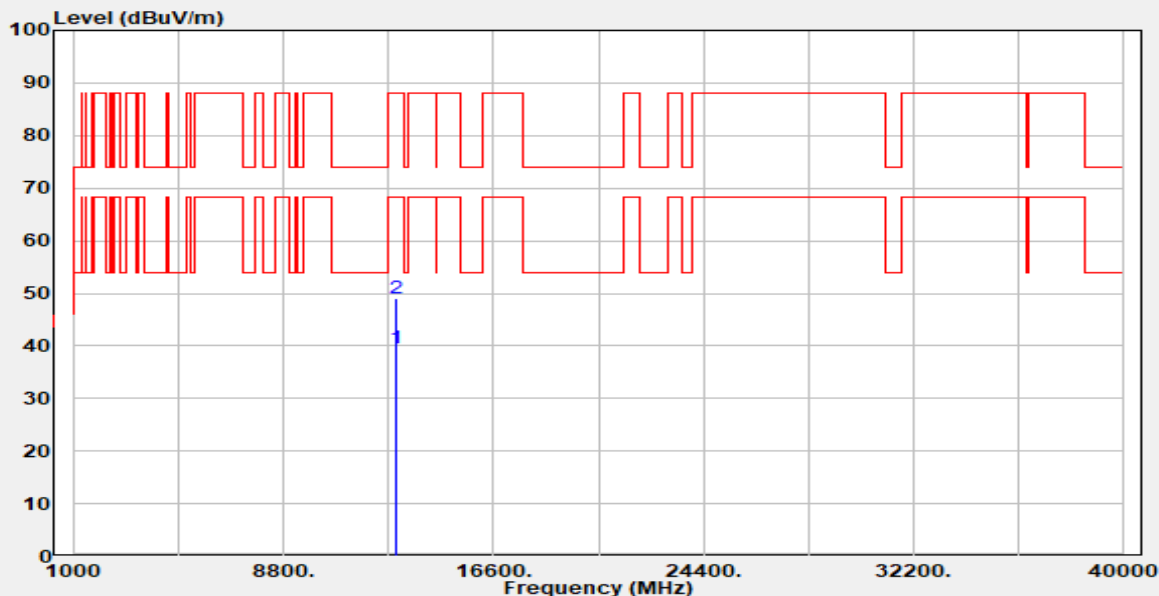
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6485
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 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
12970.00	Average	27.82	11.87	39.69	68.20	-28.51
12970.00	Peak	37.22	11.87	49.09	88.20	-39.11

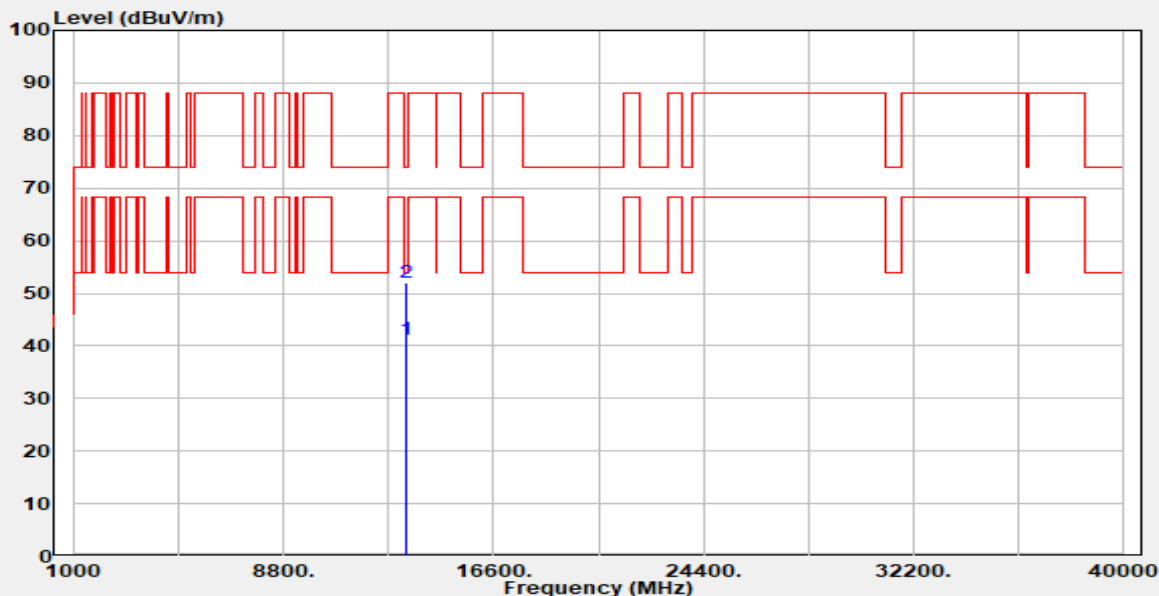
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6685
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 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
13370.00	Average	28.05	13.24	41.29	54.00	-12.71
13370.00	Peak	38.75	13.24	51.99	74.00	-22.01

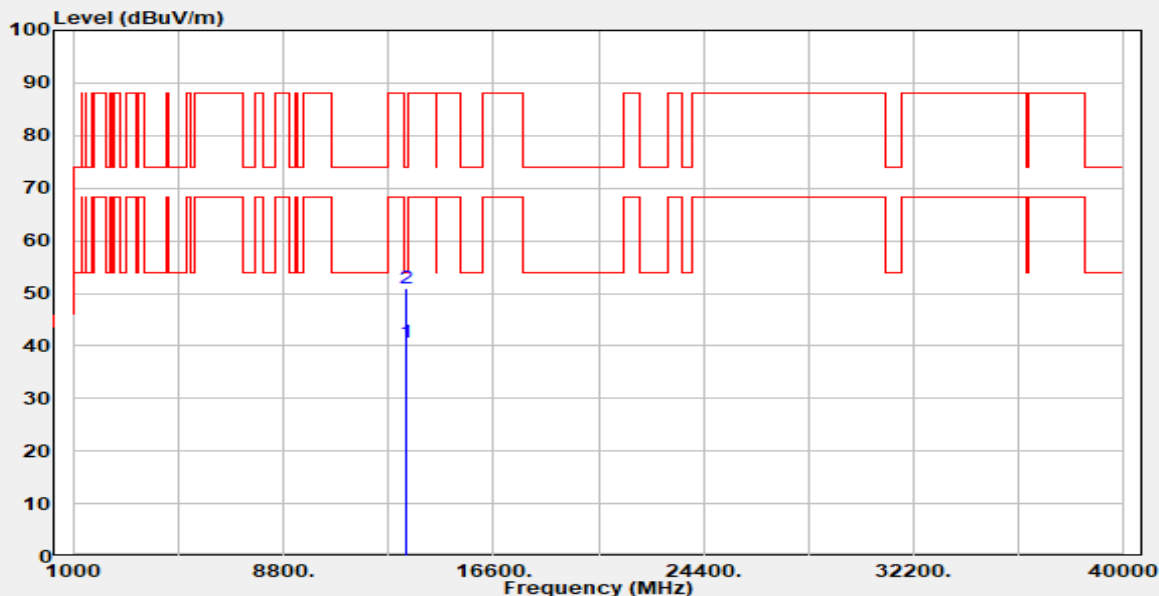
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :6685
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 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
13370.00	Average	27.54	13.24	40.78	54.00	-13.22
13370.00	Peak	37.81	13.24	51.05	74.00	-22.95

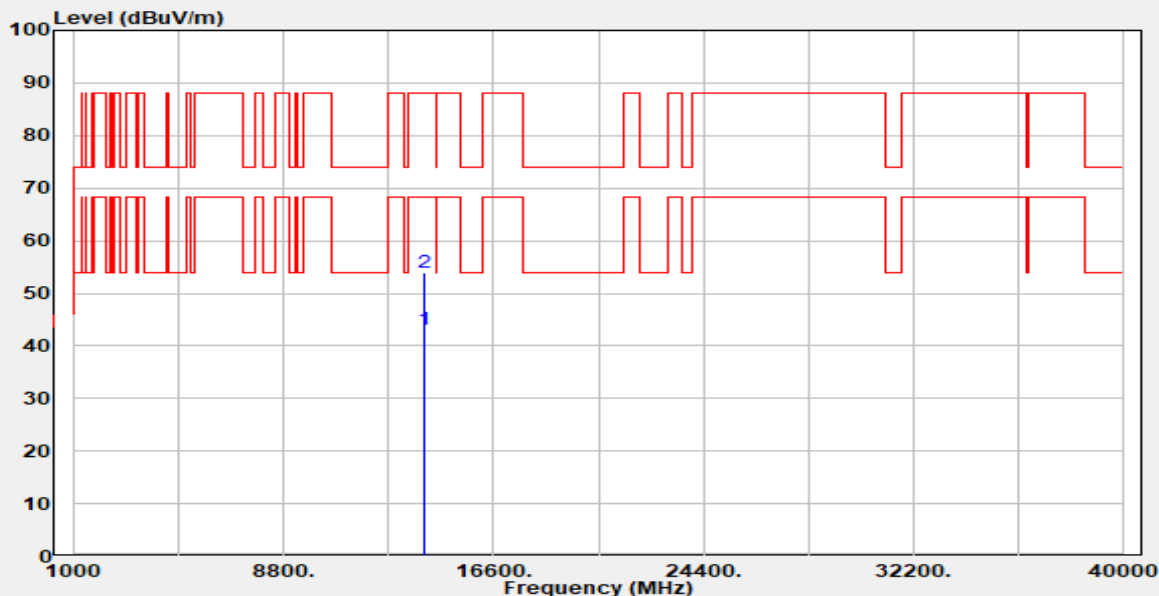
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7005
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
14010.00	Average	29.24	13.78	43.02	68.20	-25.18
14010.00	Peak	40.04	13.78	53.82	88.20	-34.38

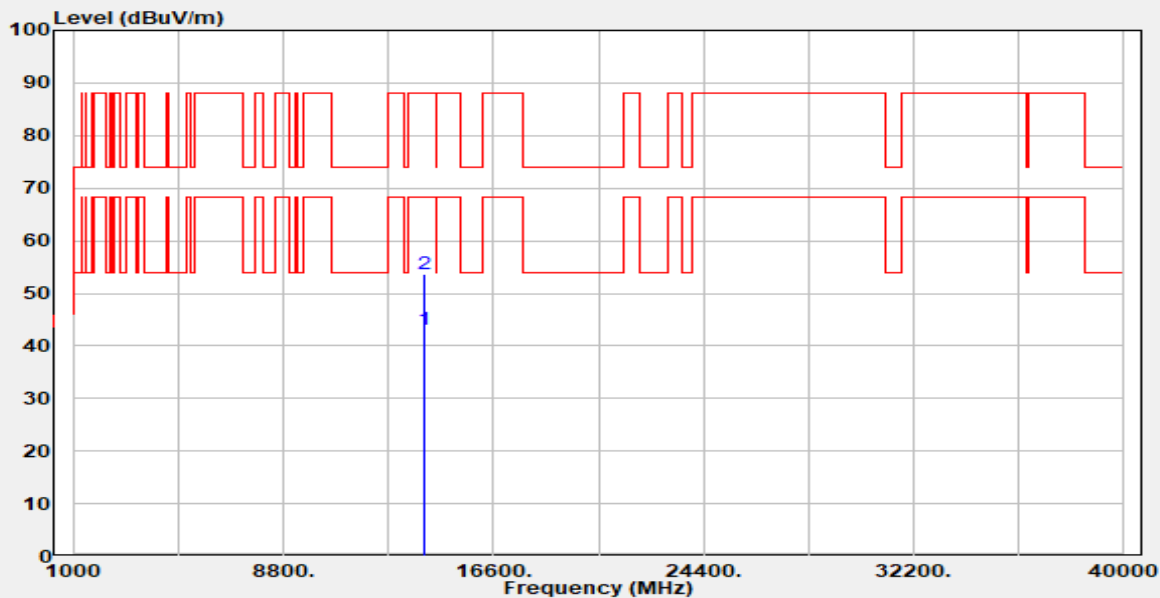
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7005
 Test Mode :Tx
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :22.5°C/60%
 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
14010.00	Average	29.22	13.78	43.00	68.20	-25.20
14010.00	Peak	39.78	13.78	53.56	88.20	-34.64

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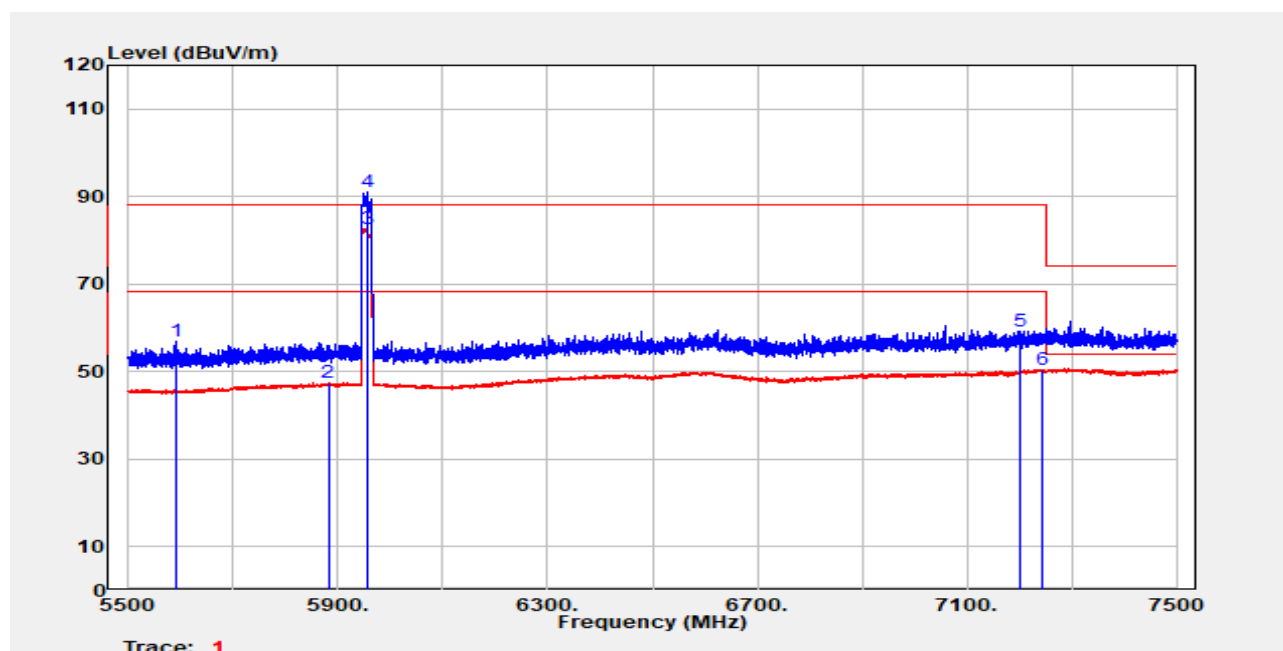
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8.6.2 Band edge falling to restricted band

Report Number :TERF2503001182E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :5955
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



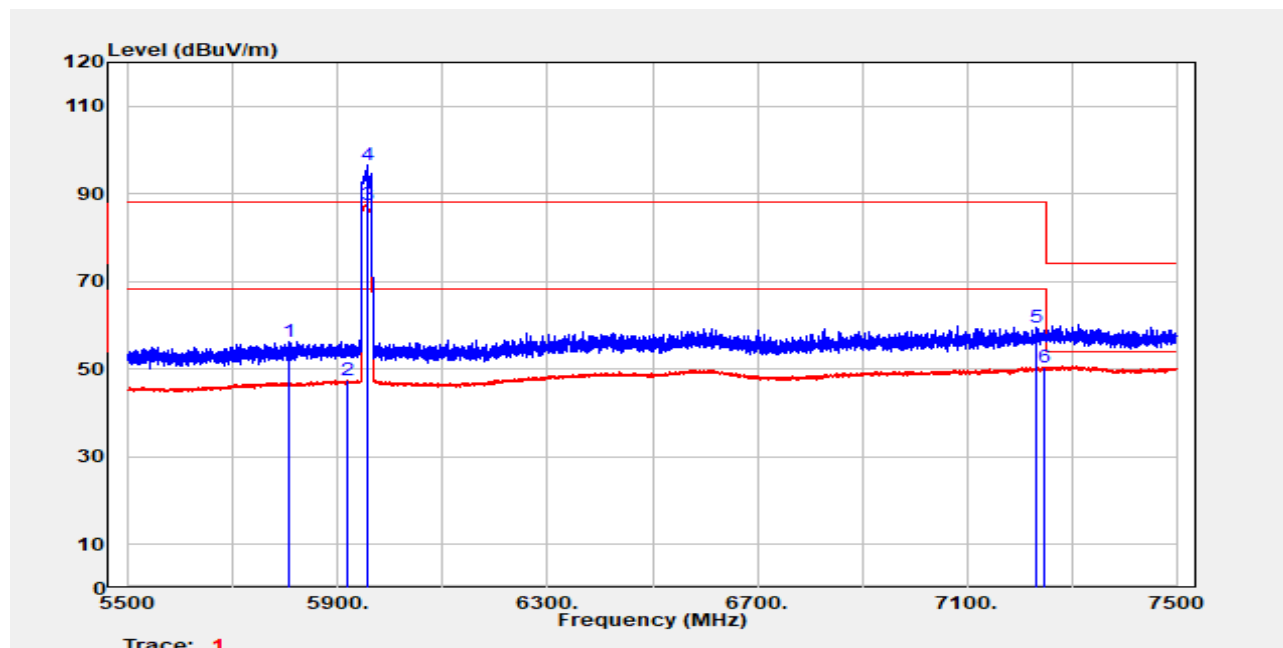
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5592.26	Peak	52.62	4.22	56.84	88.20	-31.36
5881.05	Average	41.33	6.08	47.41	68.20	-20.79
5955.00	Average	76.36	6.15	82.51	-	-
5955.00	Peak	84.81	6.15	90.96	-	-
7201.46	Peak	50.04	9.19	59.23	88.20	-28.97
7243.97	Average	41.08	9.46	50.54	68.20	-17.66

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Report Number :TERF2503001182E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :5955
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5805.79	Peak	50.95	5.44	56.39	88.20	-31.81
5917.80	Average	41.11	6.23	47.34	68.20	-20.86
5955.00	Average	81.19	6.15	87.34	-	-
5955.00	Peak	90.44	6.15	96.59	-	-
7230.72	Peak	50.28	9.36	59.64	88.20	-28.56
7246.47	Average	41.00	9.47	50.47	68.20	-17.73

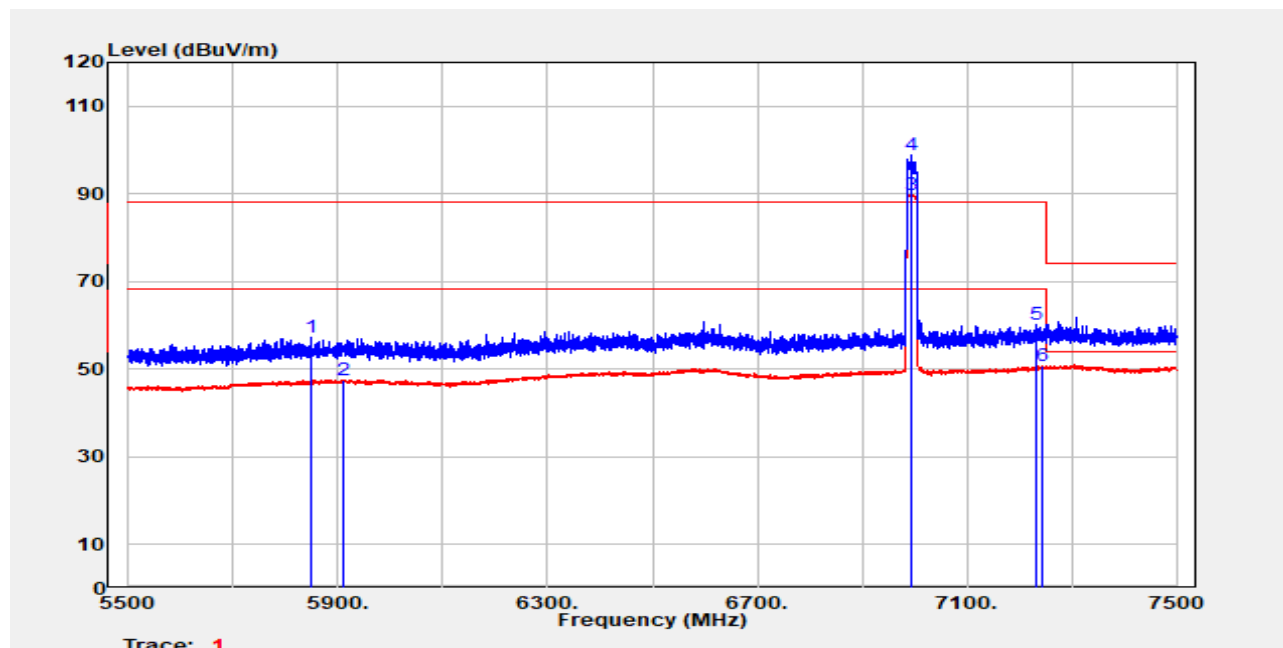
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :6995
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5848.79	Peak	51.34	5.76	57.10	88.20	-31.10
5911.30	Average	41.36	6.23	47.59	68.20	-20.61
6995.00	Average	80.91	8.88	89.79	-	-
6995.00	Peak	89.95	8.88	98.83	-	-
7231.22	Peak	50.85	9.36	60.21	88.20	-27.99
7244.47	Average	41.27	9.45	50.72	68.20	-17.48

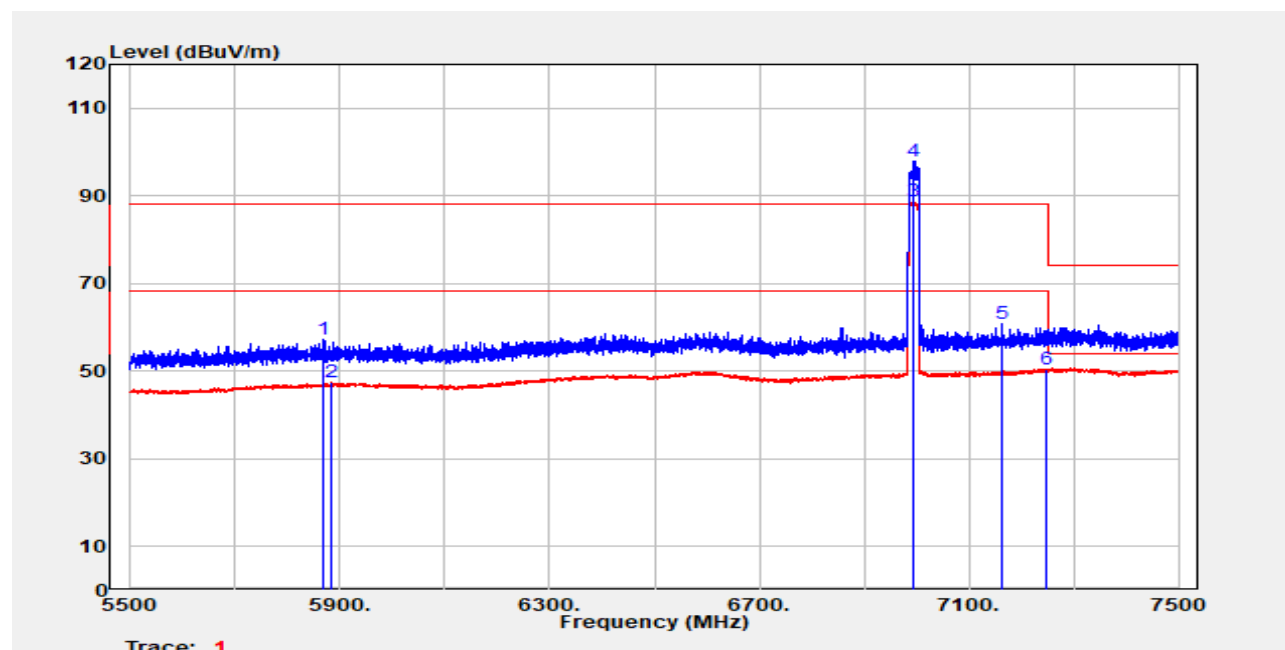
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :6995
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



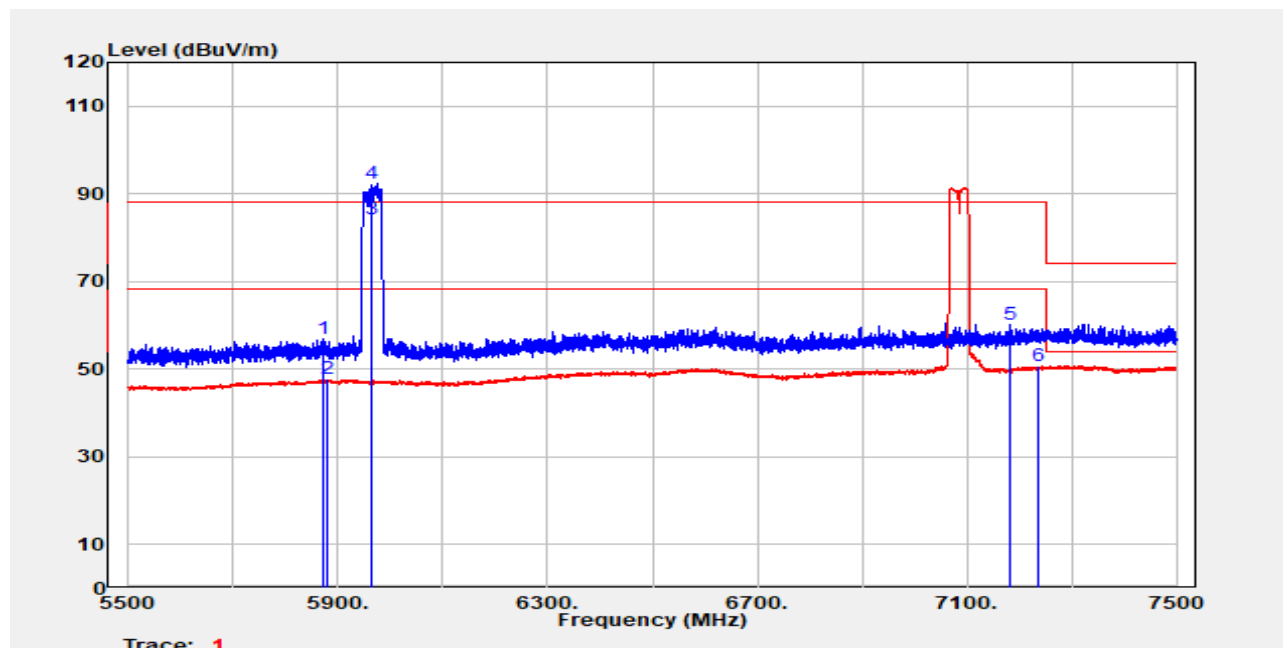
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5867.80	Peak	51.35	5.95	57.30	88.20	-30.90
5882.80	Average	41.27	6.09	47.36	68.20	-20.84
6995.00	Average	79.78	8.88	88.66	-	-
6995.00	Peak	89.08	8.88	97.96	-	-
7162.46	Peak	51.62	9.04	60.66	88.20	-27.54
7249.22	Average	40.90	9.49	50.39	68.20	-17.81

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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :5965
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5870.55	Peak	50.78	5.97	56.75	88.20	-31.45
5877.55	Average	41.71	6.04	47.75	68.20	-20.45
5965.00	Average	78.01	6.13	84.14	-	-
5965.00	Peak	86.07	6.13	92.20	-	-
7184.21	Peak	51.20	9.12	60.32	88.20	-27.88
7235.22	Average	41.42	9.39	50.81	68.20	-17.39

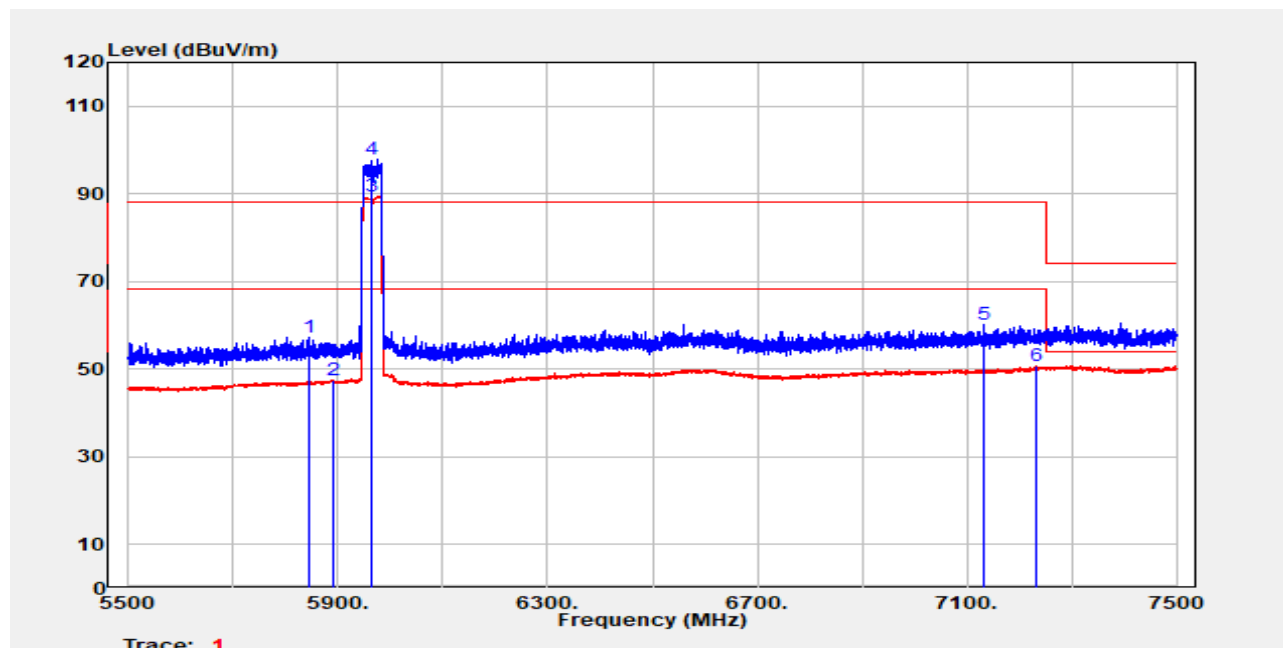
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :5965
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5843.04	Peak	51.57	5.72	57.29	88.20	-30.91
5889.05	Average	41.28	6.16	47.44	68.20	-20.76
5965.00	Average	83.38	6.13	89.51	-	-
5965.00	Peak	91.69	6.13	97.82	-	-
7131.45	Peak	51.23	9.02	60.25	88.20	-27.95
7231.72	Average	41.21	9.38	50.59	68.20	-17.61

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

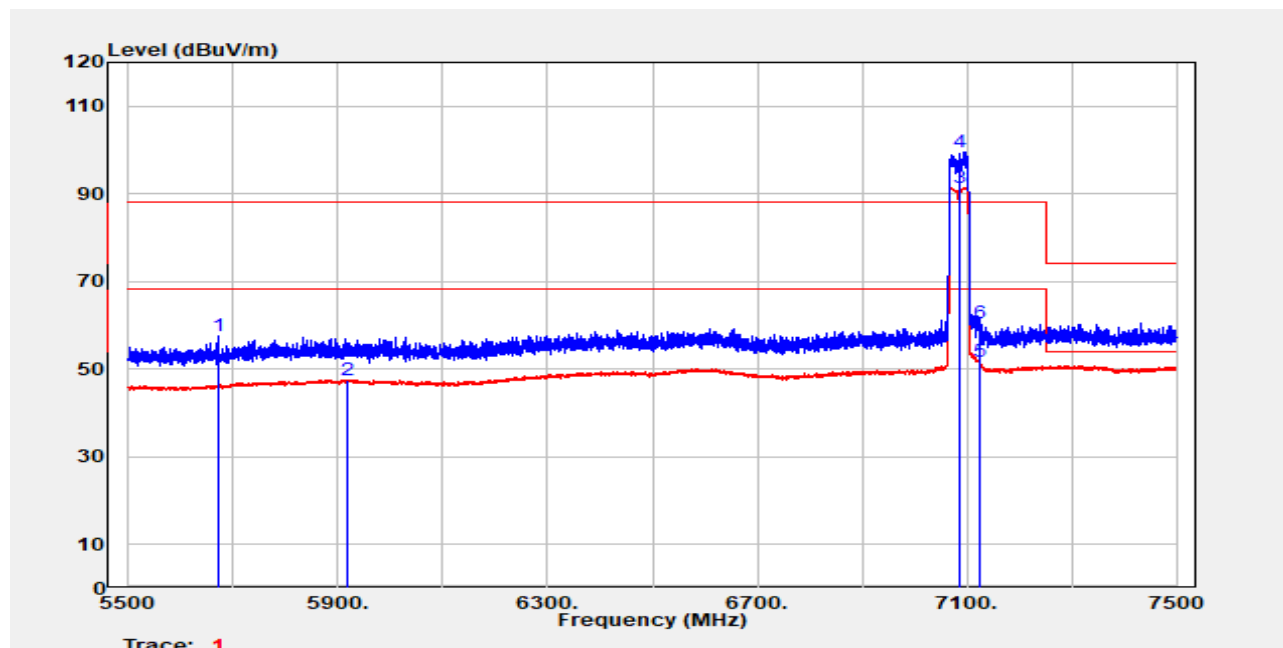
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7085
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5671.77	Peak	52.92	4.79	57.71	88.20	-30.49
5916.80	Average	41.34	6.23	47.57	68.20	-20.63
7085.00	Average	82.35	9.00	91.35	-	-
7085.00	Peak	90.49	9.00	99.49	-	-
7125.00	Average	42.64	9.02	51.66	68.20	-16.54
7125.95	Peak	51.32	9.03	60.35	88.20	-27.85

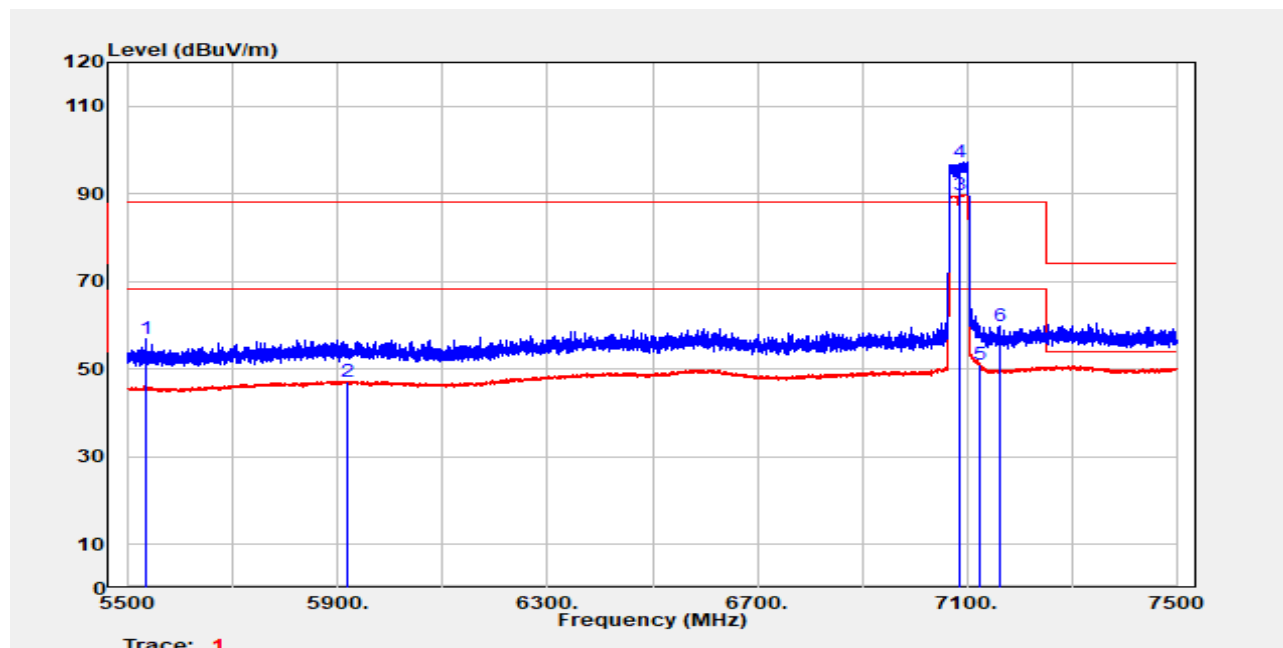
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7085
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5532.25	Peak	52.23	4.56	56.79	88.20	-31.41
5916.05	Average	40.97	6.23	47.20	68.20	-21.00
7085.00	Average	80.91	9.00	89.91	-	-
7085.00	Peak	88.21	9.00	97.21	-	-
7125.45	Average	42.08	9.03	51.11	68.20	-17.09
7164.21	Peak	50.82	9.05	59.87	88.20	-28.33

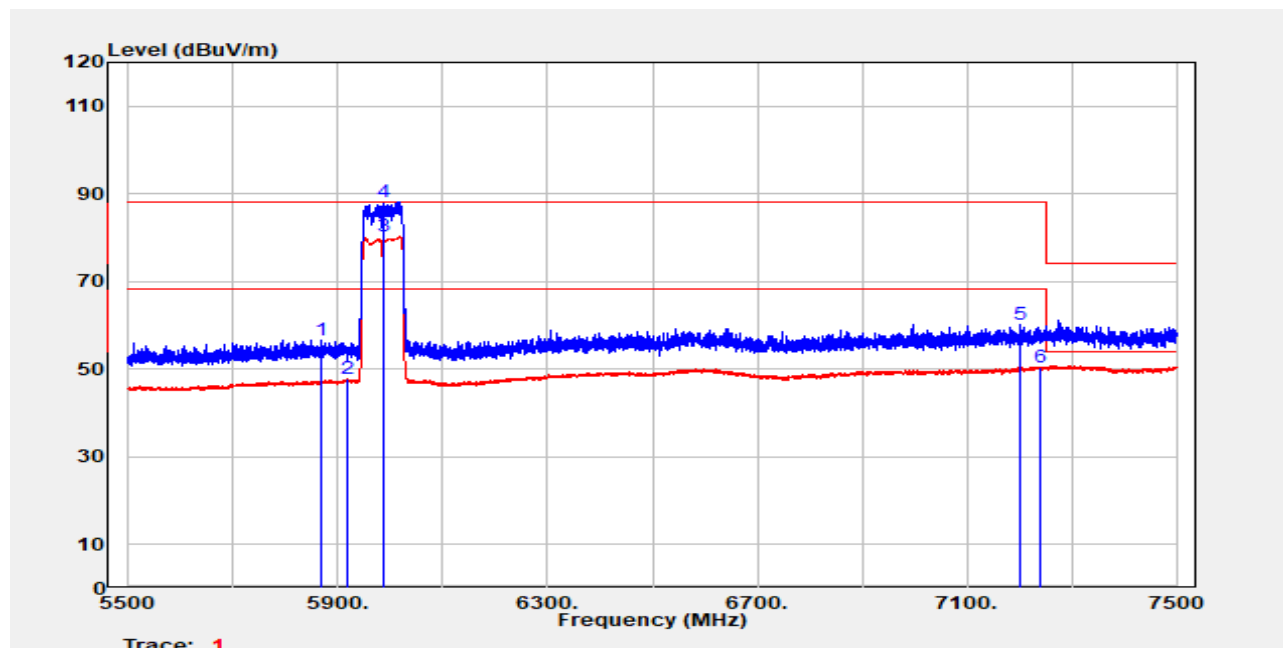
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Report Number :TERF2503001182E2
Operation Mode :802.11ax80 RU Full
Test Frequency :5985
Test Mode :Bandedge
EUT Pol :NB Mode

Test Site :SAC G
Test Date :2025-04-10
Temp./Humi. :21.7°C/58%
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
5868.30	Peak	50.71	5.96	56.67	88.20	-31.53
5916.30	Average	41.55	6.23	47.78	68.20	-20.42
5985.00	Average	74.18	6.09	80.27	-	-
5985.00	Peak	81.98	6.09	88.07	-	-
7201.21	Peak	51.06	9.17	60.23	88.20	-27.97
7240.97	Average	41.11	9.42	50.53	68.20	-17.67

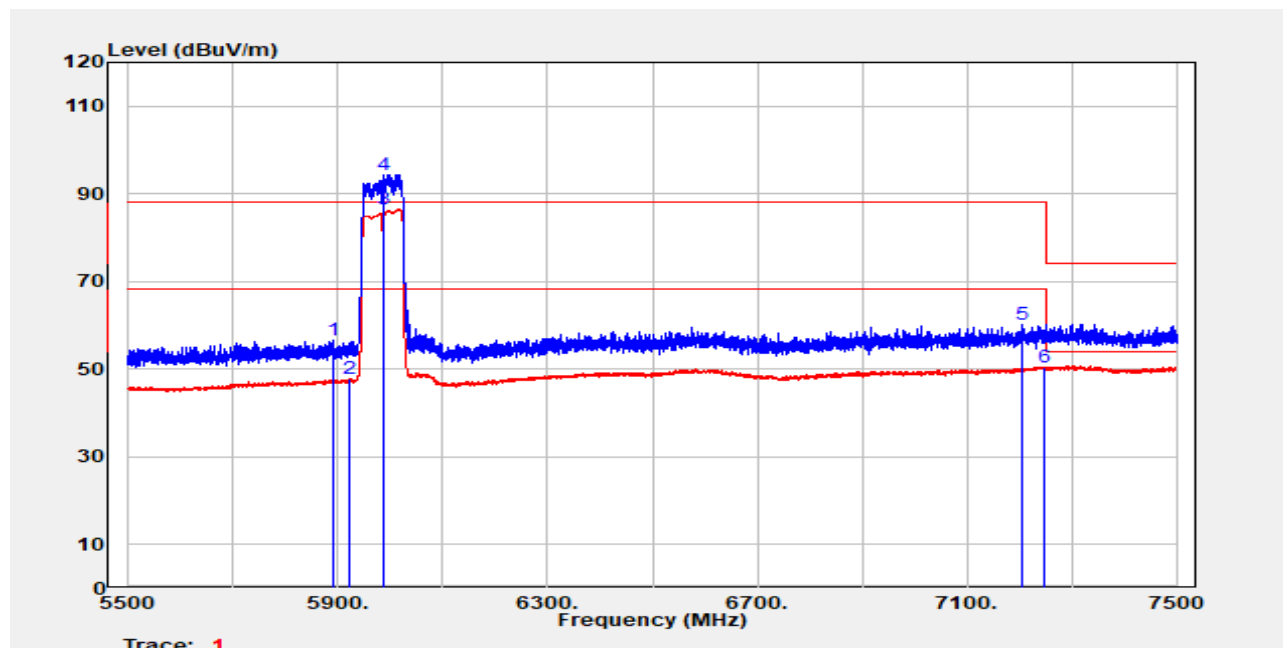
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax80 RU Full
 Test Frequency :5985
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5889.30	Peak	50.46	6.16	56.62	88.20	-31.58
5919.80	Average	41.65	6.22	47.87	68.20	-20.33
5985.00	Average	80.57	6.09	86.66	-	-
5985.00	Peak	88.32	6.09	94.41	-	-
7205.71	Peak	50.89	9.20	60.09	88.20	-28.11
7247.97	Average	40.98	9.47	50.45	68.20	-17.75

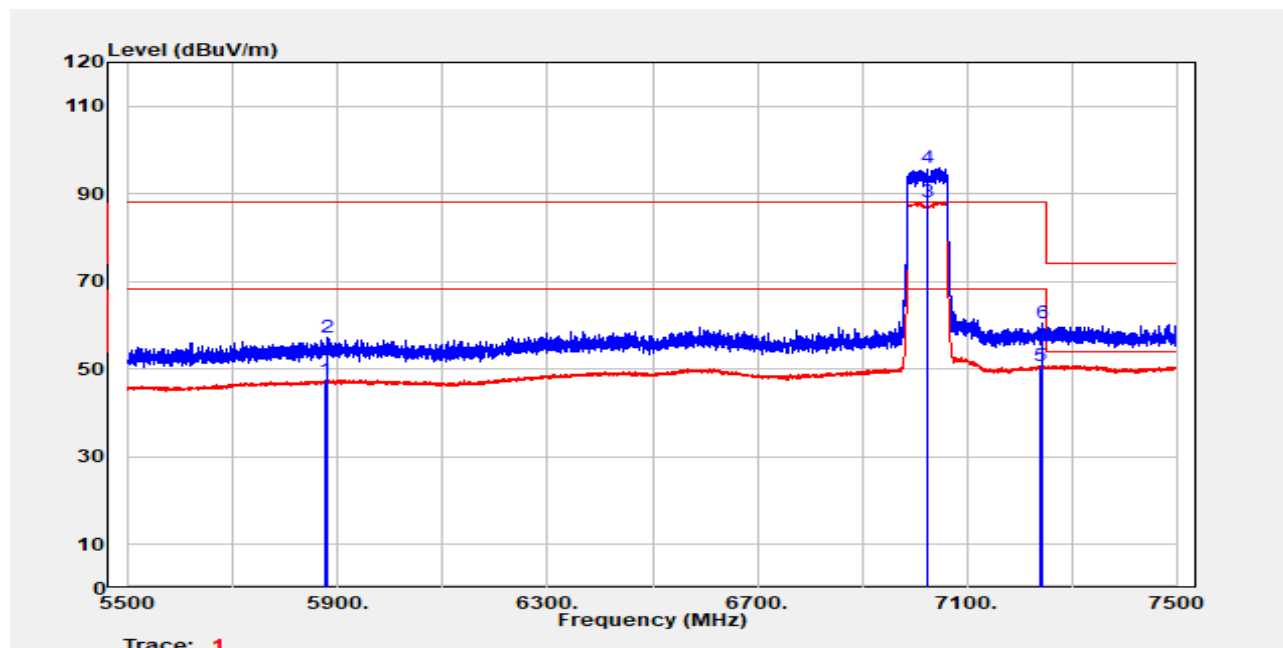
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax80 RU Full
 Test Frequency :7025
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5877.05	Average	41.49	6.04	47.53	68.20	-20.67
5880.55	Peak	51.12	6.08	57.20	88.20	-31.00
7025.00	Average	79.15	8.90	88.05	-	-
7025.00	Peak	86.99	8.90	95.89	-	-
7239.72	Average	41.22	9.42	50.64	68.20	-17.56
7242.72	Peak	51.03	9.44	60.47	88.20	-27.73

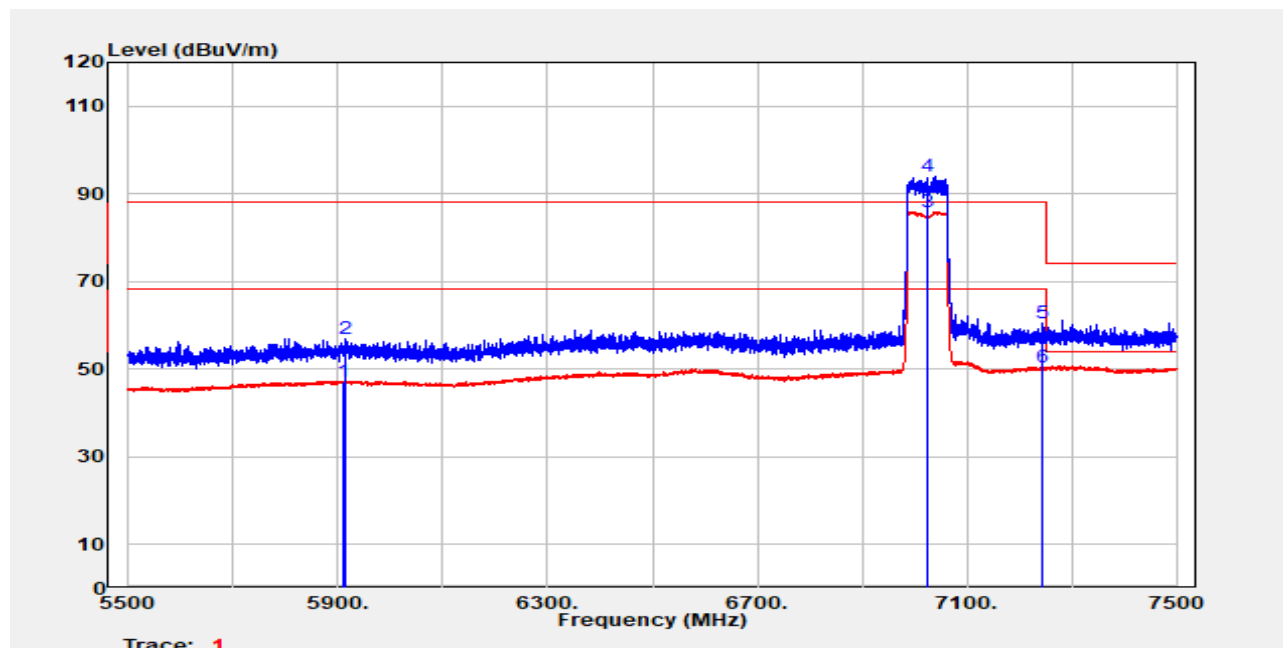
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax80 RU Full
 Test Frequency :7025
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5908.80	Average	41.07	6.24	47.31	68.20	-20.89
5912.05	Peak	50.67	6.23	56.90	88.20	-31.30
7025.00	Average	77.10	8.90	86.00	-	-
7025.00	Peak	85.05	8.90	93.95	-	-
7242.47	Peak	51.03	9.44	60.47	88.20	-27.73
7244.22	Average	40.97	9.45	50.42	68.20	-17.78

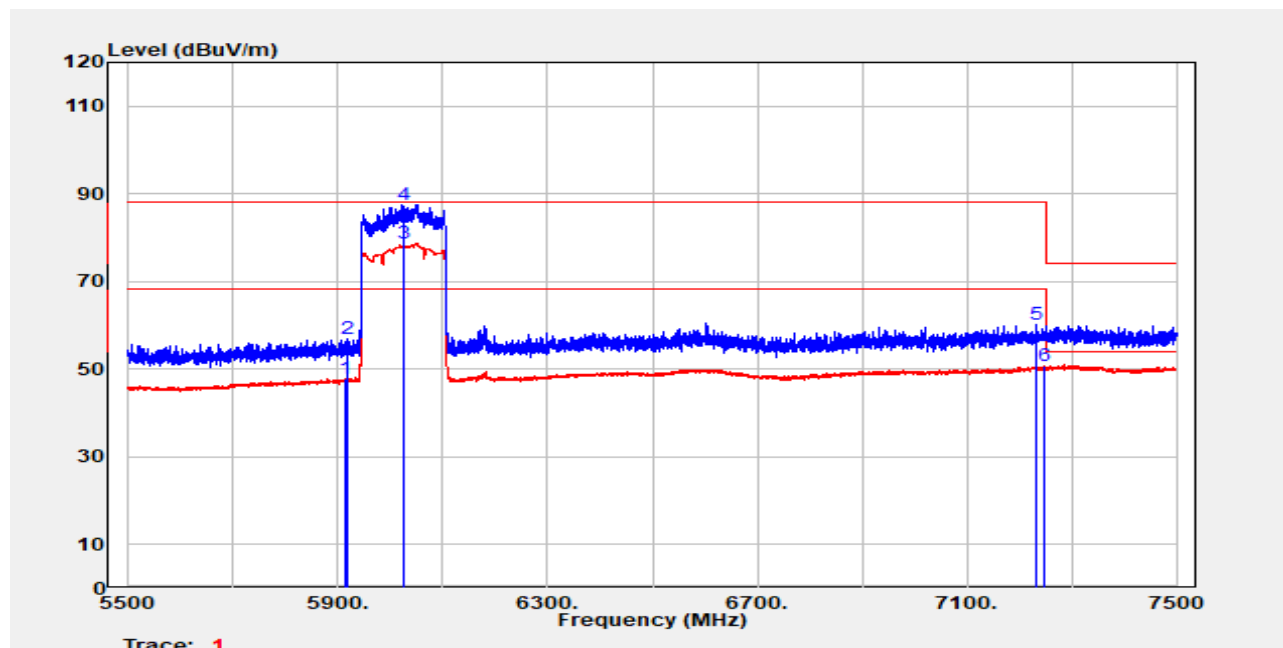
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6025
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5915.30	Average	41.57	6.23	47.80	68.20	-20.40
5917.05	Peak	50.57	6.23	56.80	88.20	-31.40
6025.00	Average	72.63	6.12	78.75	-	-
6025.00	Peak	81.50	6.12	87.62	-	-
7233.22	Peak	50.82	9.37	60.19	88.20	-28.01
7249.47	Average	41.22	9.49	50.71	68.20	-17.49

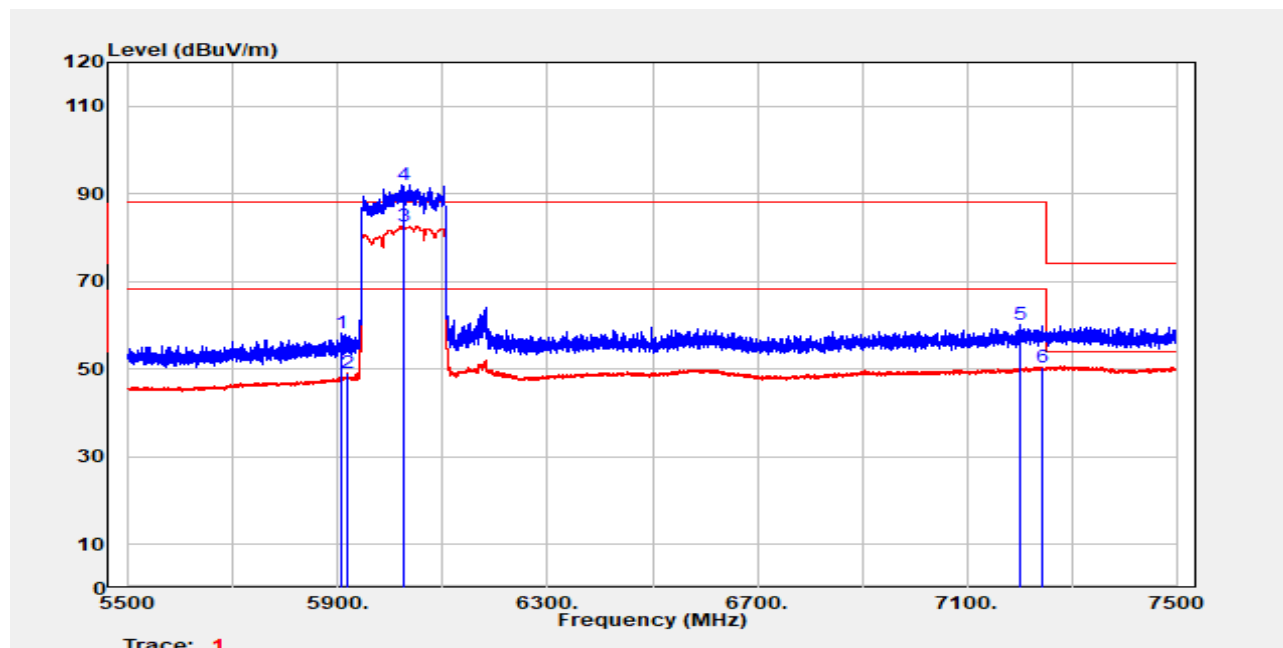
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6025
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 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
5907.55	Peak	51.89	6.24	58.13	88.20	-30.07
5917.30	Average	42.75	6.23	48.98	68.20	-19.22
6025.00	Average	76.47	6.12	82.59	-	-
6025.00	Peak	85.84	6.12	91.96	-	-
7202.96	Peak	51.11	9.18	60.29	88.20	-27.91
7242.22	Average	41.04	9.44	50.48	68.20	-17.72

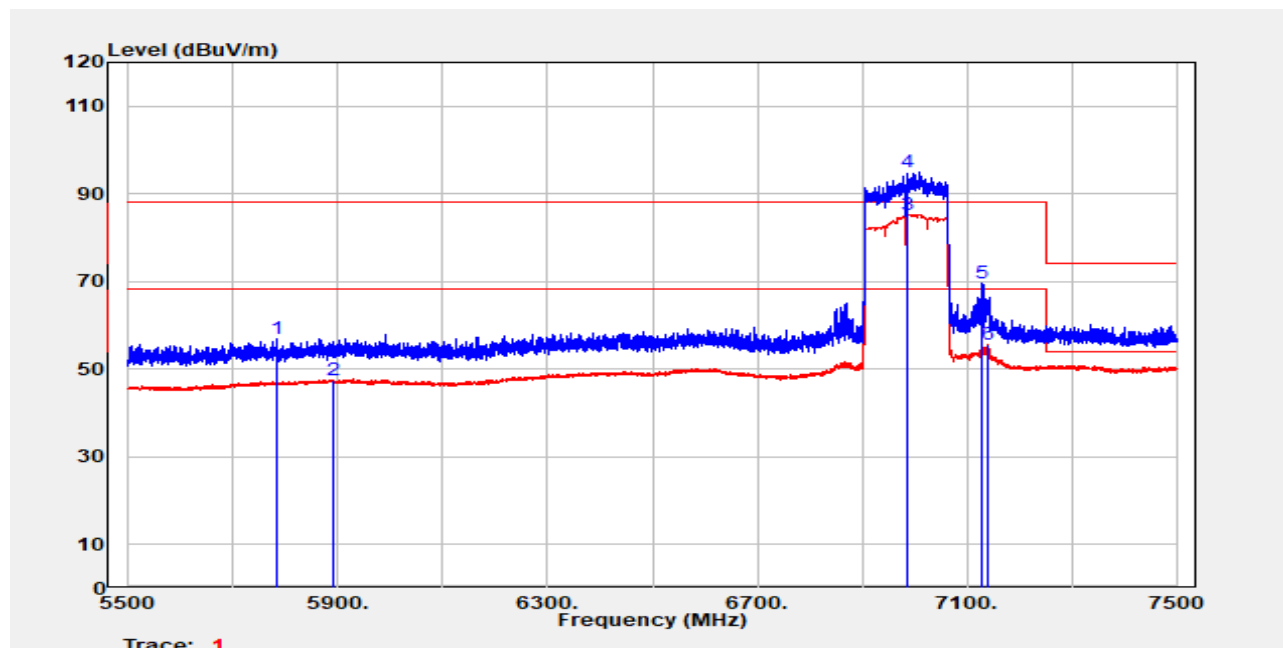
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6985
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5783.54	Peak	51.58	5.38	56.96	88.20	-31.24
5890.30	Average	41.45	6.17	47.62	68.20	-20.58
6985.00	Average	76.46	8.89	85.35	-	-
6985.00	Peak	85.93	8.89	94.82	-	-
7127.45	Peak	60.45	9.03	69.48	88.20	-18.72
7140.71	Average	46.52	9.01	55.53	68.20	-12.67

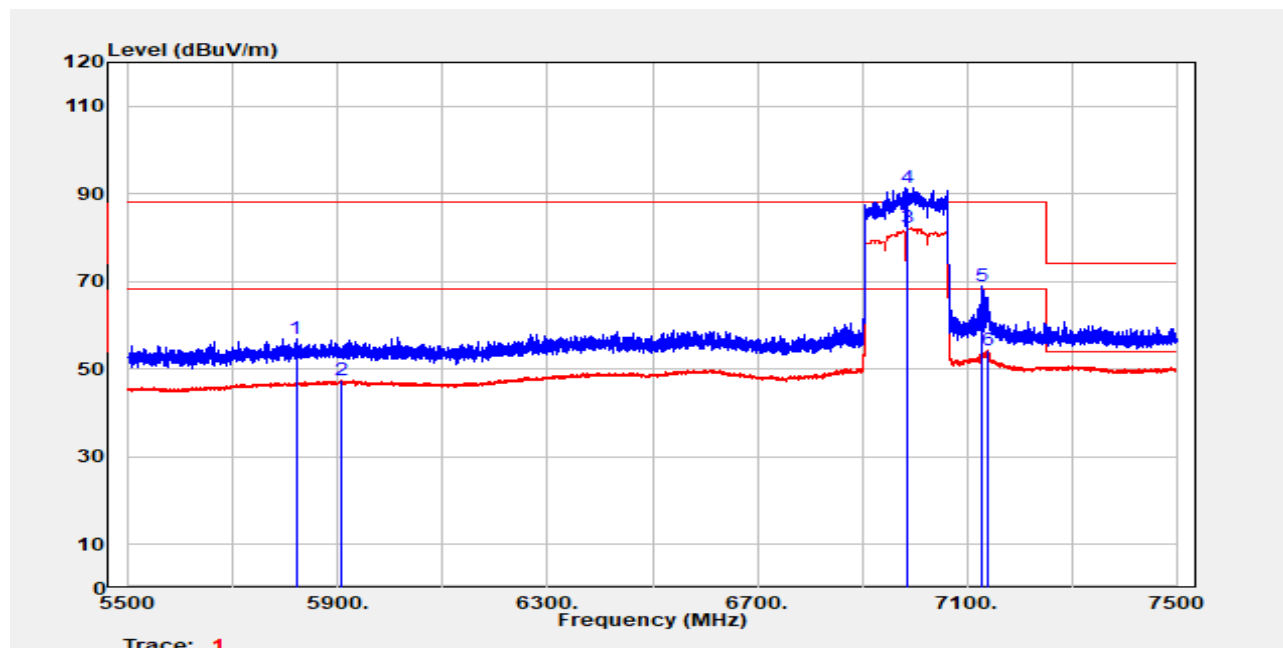
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Report Number :TERF2503001182E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6985
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC G
 Test Date :2025-04-10
 Temp./Humi. :21.7°C/58%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5819.54	Peak	51.33	5.54	56.87	88.20	-31.33
5906.30	Average	41.10	6.24	47.34	68.20	-20.86
6985.00	Average	73.28	8.89	82.17	-	-
6985.00	Peak	82.44	8.89	91.33	-	-
7127.70	Peak	59.90	9.03	68.93	88.20	-19.27
7140.96	Average	45.31	9.01	54.32	68.20	-13.88

~ End of Report ~

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