

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless module installed in Notebook

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

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

Brand Name: REALTEK

Model No. RTL8852CE

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

Report Number: TERF2603000801E2

FCC ID TX2-RTL8852CE

Date of EUT Received: N/A, the test results are fully leveraged from test report num-
ber TERF2603000806E2, for more details please refer to sec-
tion 2 in this report.

Date of Test: N/A, the test results are fully leveraged from test report num-
ber TERF2603000806E2, for more details please refer to sec-
tion 2 in this report.

Issue Date: April 9, 2026

Approved By

Arno Hsieh

Arno Hsieh

We hereby certify that:

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

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
TERF2603000801E2	00	Original	April 9, 2026	Sandy Yu	

Note:

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

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

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

1.2 RF Specification

Modulation type	802.11ax	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Transition Rate	802.11ax_HE20	up to 143.4 Mbps
	802.11ax_HE40	up to 286.8 Mbps
	802.11ax_HE80	up to 600.5 Mbps
	802.11ax_HE160	up to 1201 Mbps

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1.3 Antenna Designation

Ant. Type	Brand	Model No.	Freq (MHz)	Peak Antenna Gain (dBi)
PIFA	High-tek	DC330035O00 (0ACMYL25464N)	5925~6425	2.98
			6425~6525	3.26
			6525~6875	2.47
			6875~7125	3.01
		DC330035O10 (0ACMYL25465N)	5925~6425	3.19
			6425~6525	2.85
			6525~6875	2.79
			6875~7125	3.42
	INPAQ	DC330035N00 (WA-P-LE-02-485)	5925~6425	2.69
			6425~6525	3.03
			6525~6875	2.24
			6875~7125	2.88
		DC330035N10 (WA-P-LE-01-146)	5925~6425	3.01
			6425~6525	2.67
			6525~6875	2.53
			6875~7125	3.12

Note:

- 1 Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2 The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
- 3 The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
- 4 The directional gain is calculated according to section F. 2). e). (ii) of FCC KDB 662911 D01.

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1.4 Rated Power

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)
802.11ax_HE20	5955~6415	24	EIRP	6.93 dBm
	6435~6515	5	EIRP	7.18 dBm
	6535~6875	19	EIRP	6.74 dBm
	6875~7115	12	EIRP	7.77 dBm
802.11ax_HE40	5965~6405	12	EIRP	10.26 dBm
	6445~6525	3	EIRP	10.22 dBm
	6525~6845	8	EIRP	10.13 dBm
	6885~7085	6	EIRP	10.59 dBm
802.11ax_HE80	5985~6385	6	EIRP	13.03 dBm
	6465	1	EIRP	12.77 dBm
	6545~6865	5	EIRP	12.71 dBm
	6945~7025	2	EIRP	13.15 dBm
802.11ax_HE160	6025~6345	3	EIRP	14.04 dBm
	6505	1	EIRP	16.96 dBm
	6665~6825	2	EIRP	13.58 dBm
	6985	1	EIRP	14.12 dBm

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1.5 Operating Frequencies

UNII-5 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
1	5955 MHz	5	5975 MHz	9	5995 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz
UNII-5 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz
UNII-5 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz	-	-	-	-
UNII-5 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
15	6025 MHz	47	6185 MHz	79	6345 MHz	-	-

UNII-6 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz	-	-	-	-	-	-
UNII-6 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
99	6445 MHz	107	6485 MHz	115	6525 MHz	-	-
UNII-6 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
103	6465 MHz	-	-	-	-	-	-
UNII-6 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
111	6505 MHz	-	-	-	-	-	-

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UNII-7 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	185	6875 MHz	-	-	-	-
UNII-7 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz
UNII-7 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
183	6865 MHz	-	-	-	-	-	-
UNII-7 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
123	6565 MHz	175	6825 MHz	-	-	-	-

UNII-8 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz
UNII-8 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
187	6885 MHz	195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz	-	-	-	-
UNII-8 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
199	6945 MHz	215	7025 MHz	-	-	-	-
UNII-8 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
207	6985 MHz	-	-	-	-	-	-

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1.6 EUT Availability and The Worst Test Modes

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 modes below.

Modulation		Transmission Chain								Single Transmission Spatial	Multiple Transmission Spatial
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 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	DATA RATE (Mbps)	RU CONFIGURATION	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1, 45, 93	OFDMA	MCS0	26/0, 26/8 52/37, 52/40 106/53, 106/54 242,	2TX
	6435~6515	97 to 113	97, 105, 113				
	6535~6875	117 to 185	117, 149, 181, 185				
	6895~7115	189 to 233	189, 209, 233				
	5955~6415	1 to 93	1, 45, 93				
	6435~6515	97 to 113	97, 105, 113				
	6535~6875	117 to 185	117, 149, 181, 185				
802.11ax_HE40	6895~7115	189 to 233	189, 209, 233	OFDM	MCS0		2TX
	5965~6405	3 to 91	3, 43, 91				
	6445~6525	99 to 115	99, 107, 115				
	6565~6845	123 to 179	123, 147, 179				
802.11ax_HE80	6885~7085	187 to 227	187, 195, 211, 227	OFDM	MCS0		2TX
	5985~6385	7 to 87	7, 39, 87				
	6465	103	103				
	6545~6865	119 to 183	119, 135, 151, 167, 183				
802.11ax_HE160	6945~7025	199 to 215	199, 215	OFDM	MCS0		2TX
	6025~6345	15 to 79	15, 47, 79				
	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
802.11a	5955~6415	1 to 93	45	OFDM	6	2Tx
	6435~6515	97 to 113	105	OFDM		
	6535~6875	117 to 185	149	OFDM		
	6895~7115	189 to 233	209	OFDM		

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	45	OFDM	6	2Tx
	6435~6515	97 to 113	105	OFDM		
	6535~6875	117 to 185	149	OFDM		
	6895~7115	189 to 233	209	OFDM		

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	2Tx
	6895~7115	189 to 233	233	OFDMA			
802.11ax40	5955~6415	1 to 93	3	OFDMA	MCS0	full	2Tx
	6895~7115	189 to 233	227	OFDMA			
802.11ax80	5985~6385	7 to 87	7	OFDMA	MCS0	full	2Tx
	6945~7025	199 to 215	215	OFDMA			
802.11ax160	6025~6345	15 to 79	15	OFDMA	MCS0	full	2Tx
	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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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§ 15.407(a)(4~9)	Maximum Conducted Output Power	Compliant	
§15.205 §15.209 §15.407(b)(6)	Undesirable Radiated Emis- sions	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 TERF2603000806E2.

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart E §15.407
2. ANSI C63.10:2020
3. FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
4. FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
5. FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 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	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

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

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted C	Joey You	S8060433700010	21.5~21.9°C / 58~60%	2026/03/20 ~ 2026/03/30

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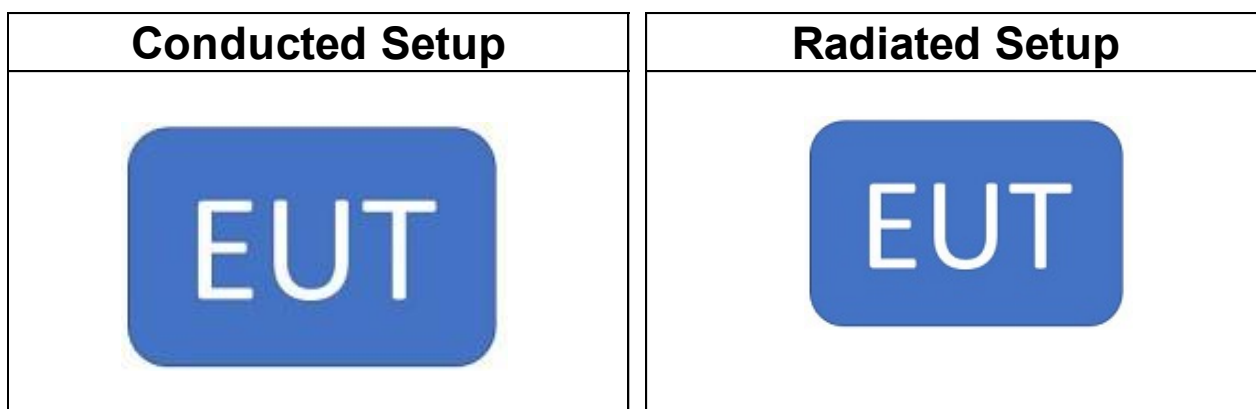
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

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

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

3.2 Diagrams



3.3 List

3.3.1 Conducted Setup

N/A.

3.3.2 Radiated Setup

N/A.

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Titan Microwave	T0810A0210A18	RF18	11/13/2025	11/12/2026
Attenuator	Woken	WATT-218FS-10	RF19	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF35	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1512003	09/03/2025	09/02/2026
Power Sensor	Anritsu	MA2411B	1339378	09/03/2025	09/02/2026
Power Sensor	Anritsu	MA2411B	1339379	09/03/2025	09/02/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/03/2025	06/02/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber D	N/A	04/30/2025	04/29/2026
5905-6445 Notch Filter	Titan Microwave	T04N5905644550S01	RF216	11/13/2025	11/12/2026
6425-6525 Notch Filter	Titan Microwave	T04N6425652550S01	RF217	11/13/2025	11/12/2026
6525-6875 Notch Filter	Titan Microwave	T04N6525687550S01	RF218	11/13/2025	11/12/2026
6875-7125 Notch Filter	Titan Microwave	T04N6875712550S01	RF219	11/13/2025	11/12/2026
8.5G High Pass Filter	Titan Microwave	T04H85002500060S01	RF184	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/23/2025	12/22/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+150707+MY969/4+16+190825+150702	11/13/2025	11/12/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/29/2025	05/28/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/31/2025	12/30/2026
Pre-Amplifier	EMC Instruments	EMC118A45SEE	981125	11/05/2025	11/04/2026
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/17/2025	10/16/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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5 REGULATORY REQUIREMENTS

5.1 Maximum Output Power

	EUT Category	Equipment Class	§15.407(a)
	Very low power devices	VLP	EIRP < 14dBm
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 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 degrees < 21dBm EIRP for outdoor use
V	Indoor Client	6XD	EIRP < 24dBm
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized transmit power
	Dual Client	6CD	Compliance both indoor client and standard client limit

5.1.1 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.

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5.2 Unwanted Emissions

For transmitters operating within the 5.925–7.125 GHz band, any emissions outside of this frequency range must not exceed an e.i.r.p. of –27 dBm/MHz. Emissions below 1 GHz must comply with the applicable general field strength limits.

The provisions for restricted bands apply to intentional radiators operating under this section.

Measurement procedures for frequencies below and above 1 GHz shall follow the applicable regulatory guidance. Unwanted emissions outside of restricted bands are measured using an RMS detector. In addition, peak emissions must not exceed the average limit by more than 20 dB.

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	2400/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz)	Peak: 88.2 (dBμV/m)
AV: -27 (dBm/MHz)	AV: 68.2 (dBμV/m)
$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log (\text{d[m]}) - 104.7$	
$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} - 20 \log (\text{d[m]}) + 104.7$	

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6 TEST CONFIGURATION

6.1 Maximum Output Power

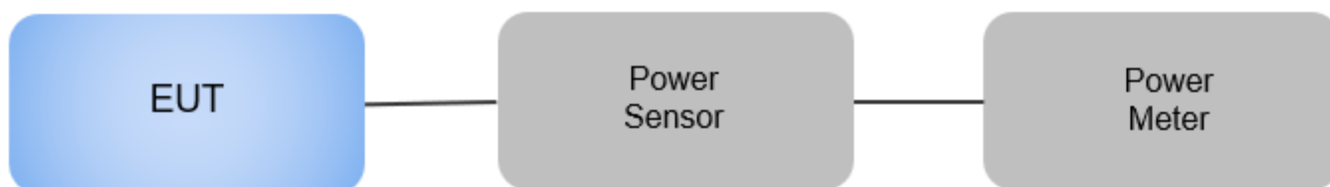
6.1.1 Duty Cycle



Set the spectrum analyzer as

Span = Zero,
RBW = 8 MHz,
VBW = 8 MHz,
Detector = Peak,

6.1.2 Maximum Output Power



1. The testing is performed in accordance with the applicable general UNII test procedures.
2. Place the EUT on the table and set it to transmit mode.
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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.
8. The directional gain is calculated using the formula

$$\text{Directional Gain} = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

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6.2 Unwanted Emissions

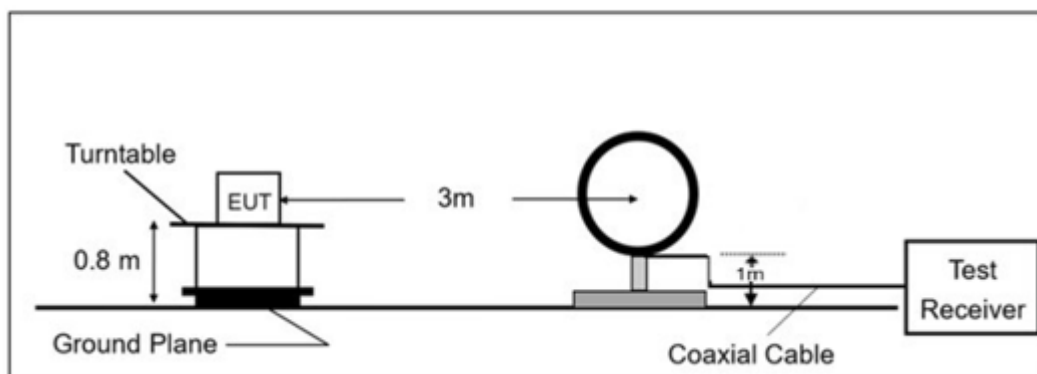
6.2.1 Radiated Emission Test Sites

For Measurements From 9 kHz To 30 MHz

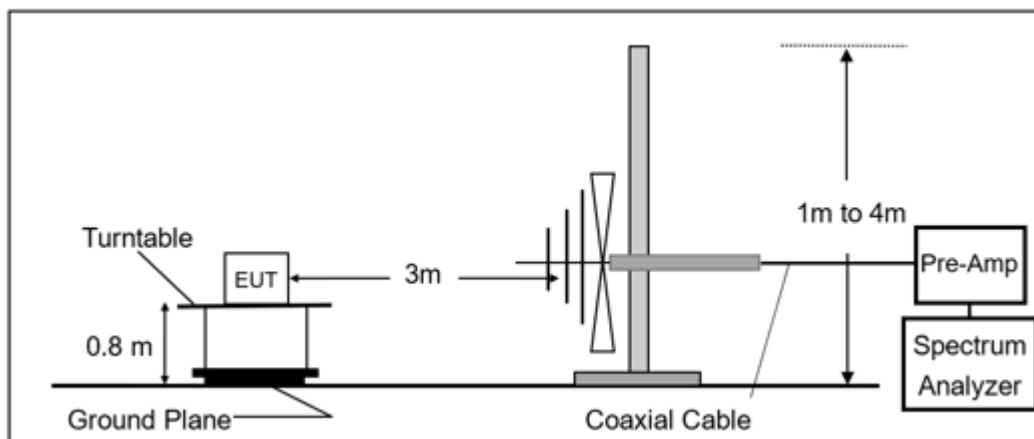
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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



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



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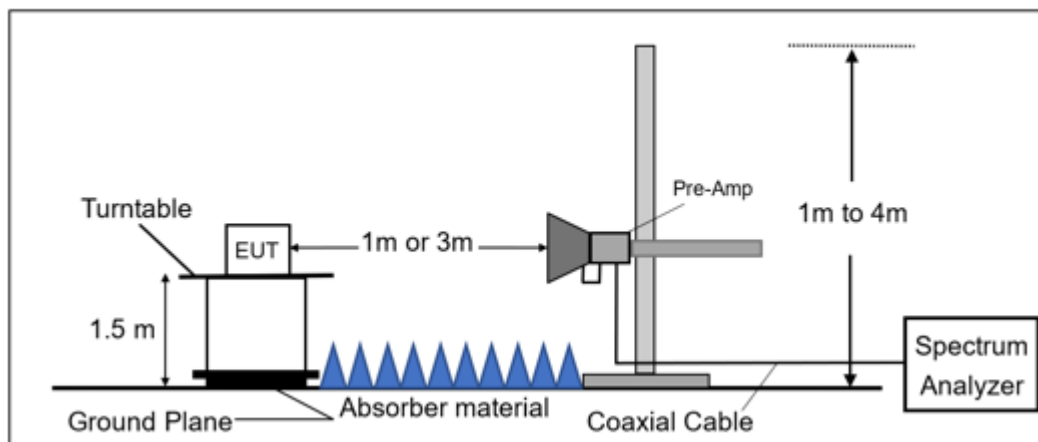
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Radiated Emission Test Set-Up, Frequency Above 1GHz.



6.2.2 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
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. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
7. For measurements above 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement:
 - RBW=1 MHz

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VBW=3 MHz

Detector = peak

Trace mode = max-hold

☒ For Average measurement:

☒ Duty cycle $\geq 98\%$:

RBW=1 MHz

VBW=3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

☐ Duty cycle $\geq 98\%$:

RBW=1 MHz

VBW=10 Hz

Detector = peak

Trace mode = max-hold

☒ Duty cycle $< 98\%$

RBW=1 MHz

VBW $\geq 1/T$

Detector = peak

Trace mode = max-hold

☐ Duty cycle $< 98\%$

RBW=1 MHz

VBW ≥ 3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

add Duty cycle factor(dB).

8. 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. 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.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits, and hence not reported.

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

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6.2.3 Field Strength Calculation

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

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

Where:

FS = Field Strength (dB μ V/m)

RA = Reading Amplitude (dB μ V)

AF = Antenna Factor (dB/m)

CL = Cable Loss (dB)

AG = Amplifier Gain (dB)

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

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7 TEST RESULTS

7.1 Maximum Output Power

7.1.1 Duty Cycle

Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20_SU		97.24	0.12	1.01	2.00
802.11ax_40_SU		94.89	0.23	1.92	2.00
802.11ax_80_SU		90.85	0.42	3.60	4.00
802.11ax_160_SU		85.57	0.68	6.02	7.00
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_RU	242	97.24	0.12	1.01	2.00
	26 RU	99.39	0.03	0.20	0.01
	52 RU	98.88	0.05	0.40	0.01
	106 RU	97.72	0.10	0.83	1.00
802.11ax_40_RU	484	94.89	0.23	1.92	2.00
	242 RU	95.24	0.21	1.79	2.00
802.11ax_80_RU	996	90.85	0.42	3.60	4.00
	484 RU	91.76	0.37	3.21	4.00
802.11ax_160_RU	996*2	85.57	0.68	6.02	7.00
	996 RU	85.85	0.66	5.49	6.00

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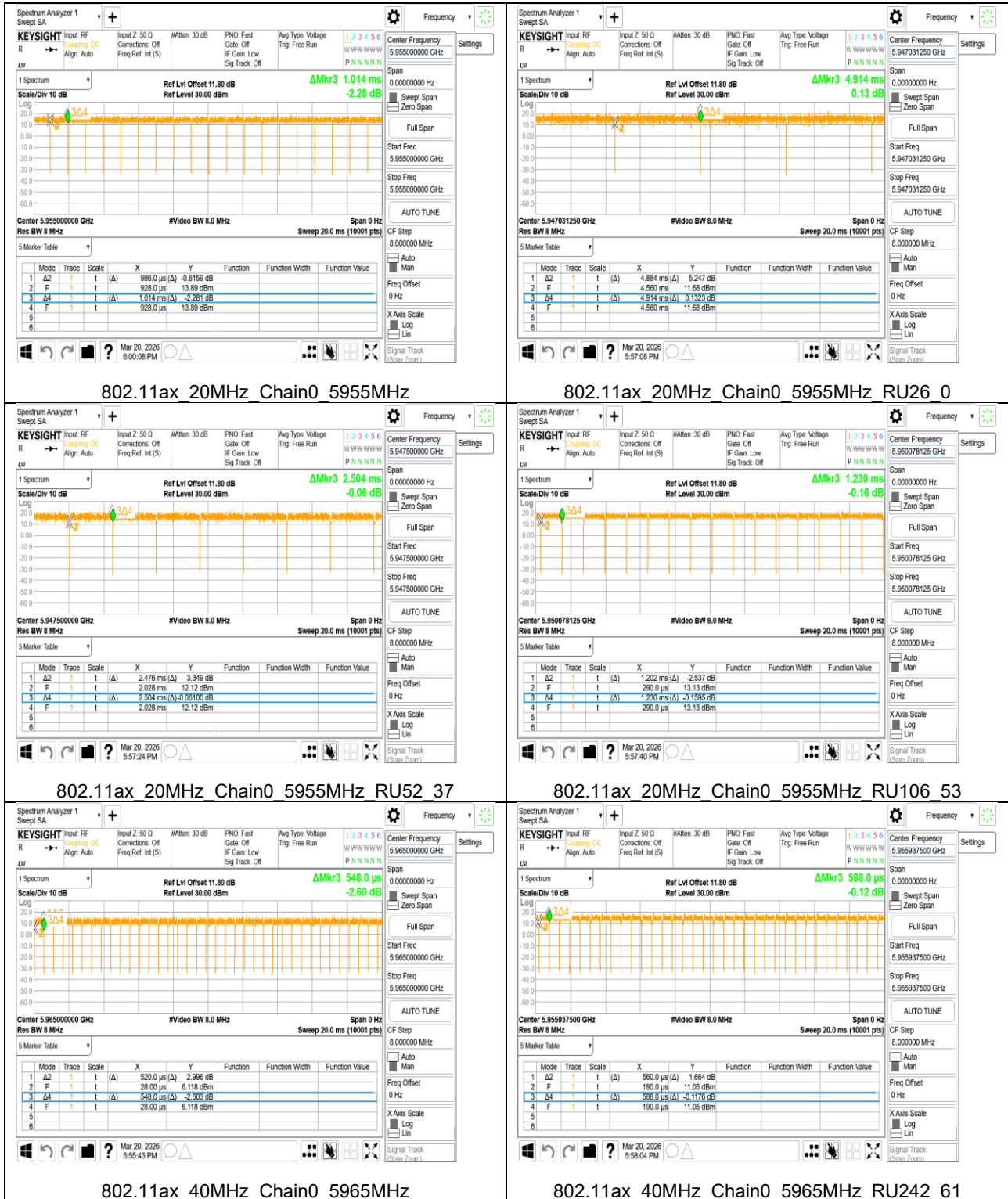
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7.1.2 Duty Cycle test plots



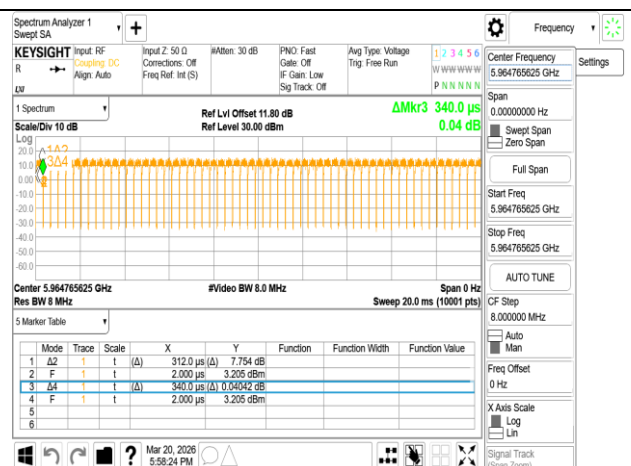
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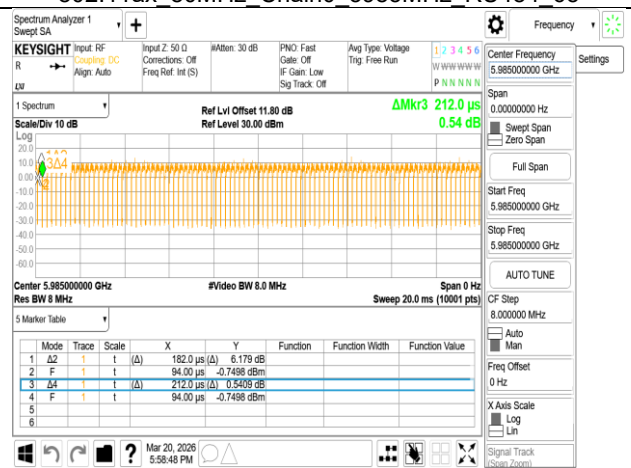
802.11ax_80MHz_Chain0_5985MHz



802.11ax_80MHz_Chain0_5985MHz_RU484_65



802.11ax_160MHz_Chain0_6025MHz



802.11ax_160MHz_Chain0_6025MHz_RU996_67

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7.1.3 Maximum Output Power

802.11ax_HE20_RU_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	242	1.17	0.37	3.80	3.09	6.89	24	PASS
		26/0	-8.03	-8.12	-5.07	3.09	-1.98	24	PASS
		52/37	-5.00	-5.10	-2.04	3.09	1.05	24	PASS
		106/53	-2.33	-2.46	0.62	3.09	3.70	24	PASS
45	6175	242	1.13	0.33	3.76	3.09	6.85	24	PASS
93	6415	242	1.10	0.30	3.73	3.09	6.82	24	PASS
		26/8	-7.94	-8.54	-5.22	3.09	-2.14	24	PASS
		52/40	-4.77	-5.61	-2.16	3.09	0.93	24	PASS
		106/54	-2.02	-2.91	0.57	3.09	3.65	24	PASS
97	6435	242	1.42	0.68	4.08	3.06	7.14	24	PASS
		26/0	-8.23	-8.55	-5.38	3.06	-2.32	24	PASS
		52/37	-4.73	-5.32	-2.01	3.06	1.05	24	PASS
		106/53	-2.07	-2.68	0.65	3.06	3.71	24	PASS
105	6475	242	1.39	0.63	4.04	3.06	7.10	24	PASS
113	6515	242	1.41	0.62	4.04	3.06	7.10	24	PASS
		26/8	-7.72	-9.07	-5.34	3.06	-2.28	24	PASS
		52/40	-4.64	-5.43	-2.01	3.06	1.05	24	PASS
		106/54	-1.85	-2.96	0.64	3.06	3.70	24	PASS
117	6535	242	1.53	0.51	4.06	2.63	6.69	24	PASS
		26/0	-7.51	-8.56	-5.00	2.63	-2.36	24	PASS
		52/37	-4.32	-5.60	-1.90	2.63	0.73	24	PASS
		106/53	-1.85	-2.89	0.67	2.63	3.30	24	PASS
149	6695	242	1.47	0.49	4.02	2.63	6.65	24	PASS
181	6855	242	1.56	0.48	4.07	2.63	6.70	24	PASS
		26/8	-7.90	-8.22	-5.05	2.63	-2.42	24	PASS
		52/40	-4.91	-5.35	-2.12	2.63	0.52	24	PASS
		106/54	-2.11	-2.53	0.70	2.63	3.33	24	PASS
185	6875	242	1.54	0.49	4.06	2.63	6.69	24	PASS
189	6895	242	1.67	1.25	4.48	3.22	7.70	24	PASS
		26/0	-6.69	-7.32	-3.99	3.22	-0.77	24	PASS
		52/37	-3.40	-3.83	-0.60	3.22	2.62	24	PASS
		106/53	-0.75	-1.35	1.97	3.22	5.19	24	PASS
209	6995	242	1.67	1.28	4.49	3.22	7.71	24	PASS
233	7115	242	1.62	1.21	4.43	3.22	7.65	24	PASS
		26/8	-6.85	-7.24	-4.03	3.22	-0.81	24	PASS
		52/40	-3.54	-4.03	-0.77	3.22	2.45	24	PASS
		106/54	-0.87	-1.25	1.95	3.22	5.17	24	PASS

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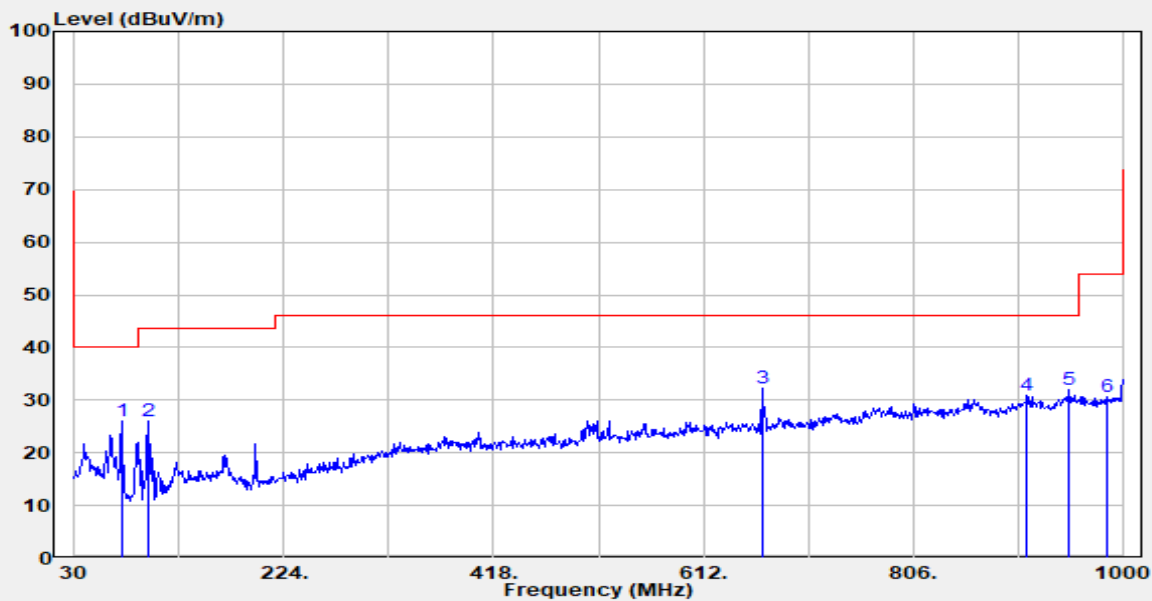
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7.2 Unwanted Emissions

7.2.1 Spurious Emission

Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



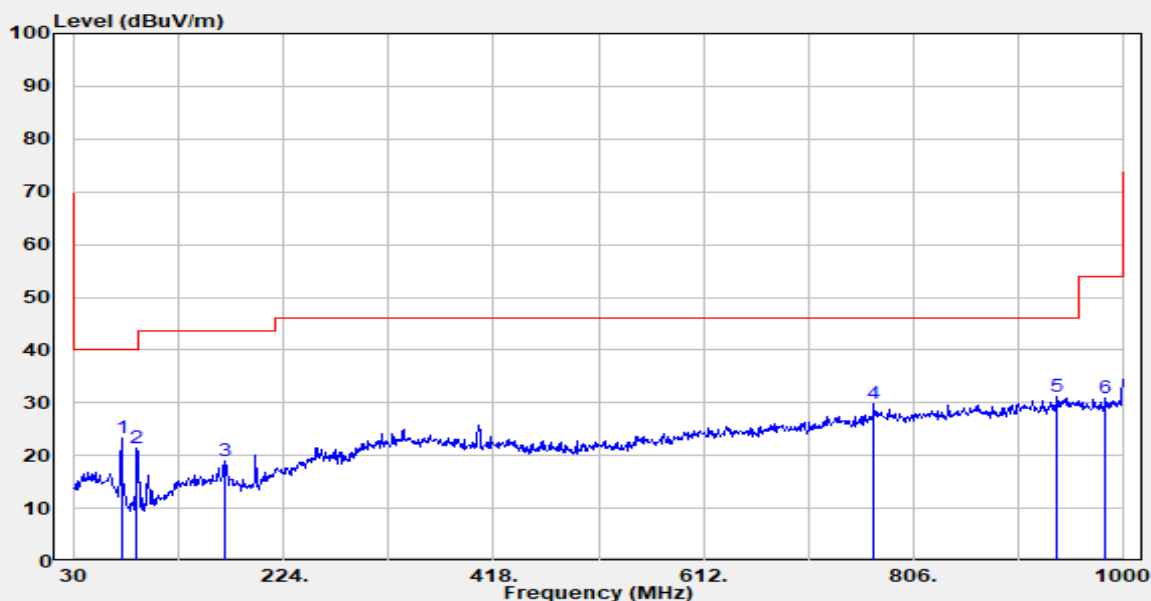
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	46.28	-20.23	26.05	40.00	-13.95
98.87	Peak	47.86	-21.86	26.00	43.50	-17.50
666.32	Peak	40.64	-8.32	32.32	46.00	-13.68
911.73	Peak	35.73	-4.89	30.84	46.00	-15.16
950.53	Peak	36.08	-4.09	31.99	46.00	-14.01
986.42	Peak	34.45	-3.95	30.50	54.00	-23.50

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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



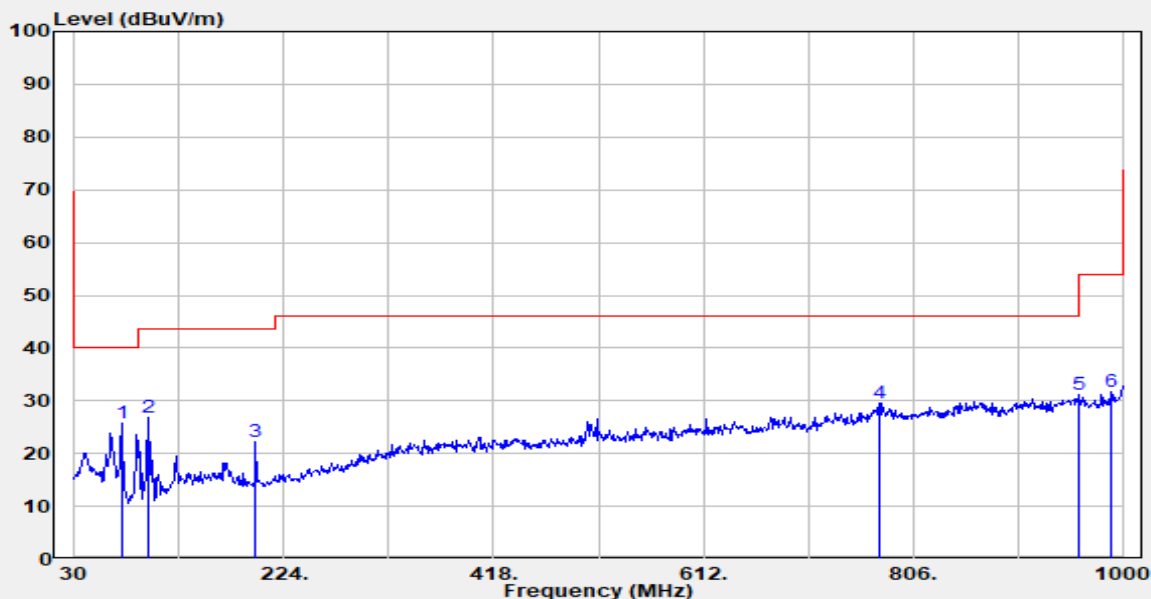
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	43.67	-20.23	23.44	40.00	-16.56
87.23	Peak	44.34	-22.90	21.44	40.00	-18.56
169.68	Peak	35.63	-16.72	18.91	43.50	-24.59
770.11	Peak	36.20	-6.36	29.84	46.00	-16.16
939.86	Peak	35.32	-4.21	31.11	46.00	-14.89
984.48	Peak	34.80	-3.98	30.82	54.00	-23.18

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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



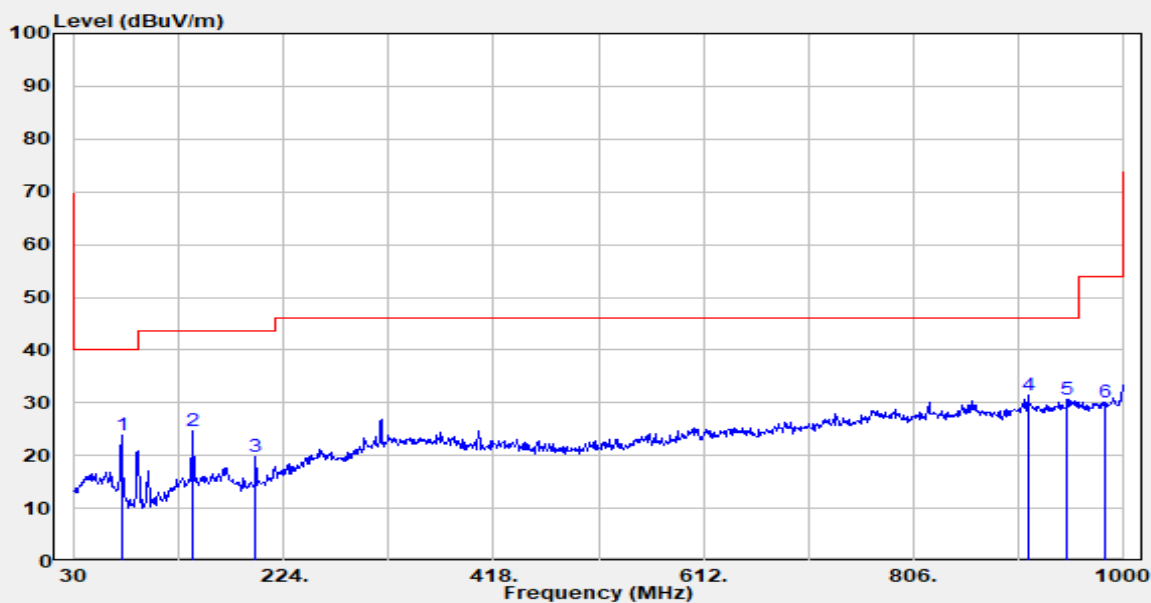
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
73.65	Peak	45.90	-20.23	25.67	40.00	-14.33
98.87	Peak	48.71	-21.86	26.85	43.50	-16.65
197.81	Peak	41.56	-19.38	22.18	43.50	-21.32
774.96	Peak	35.91	-6.25	29.66	46.00	-16.34
959.26	Peak	35.27	-4.02	31.25	46.00	-14.75
990.30	Peak	35.61	-3.85	31.76	54.00	-22.24

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 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



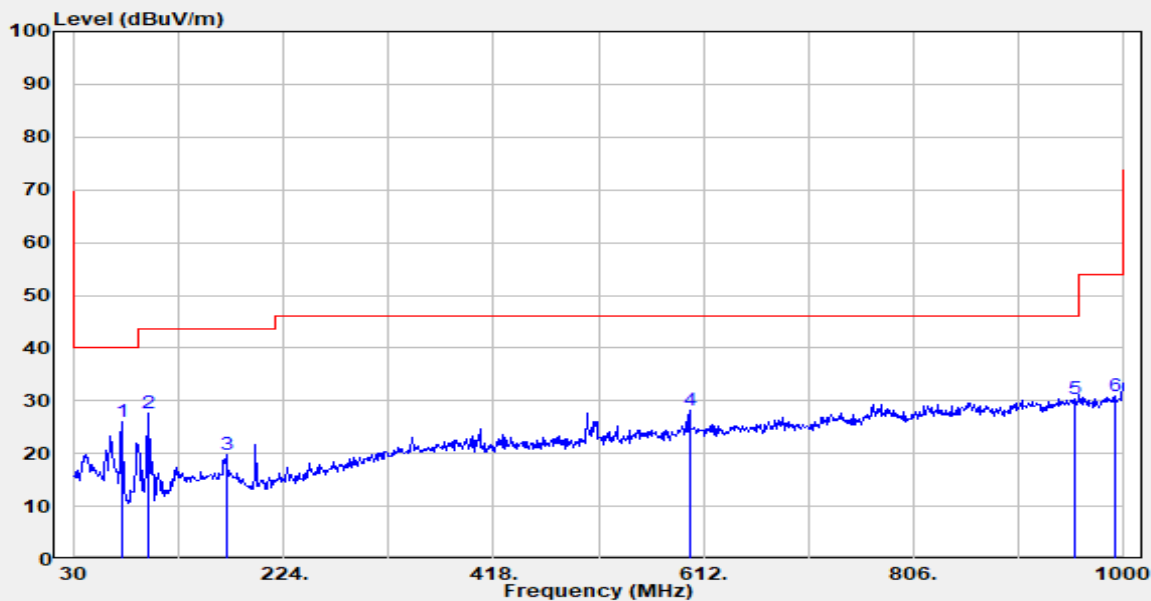
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	44.19	-20.23	23.96	40.00	-16.04
139.61	Peak	41.54	-17.00	24.54	43.50	-18.96
197.81	Peak	39.14	-19.38	19.76	43.50	-23.74
912.70	Peak	36.16	-4.86	31.30	46.00	-14.70
948.59	Peak	34.75	-4.12	30.63	46.00	-15.37
984.48	Peak	34.12	-3.98	30.14	54.00	-23.86

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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	46.11	-20.23	25.88	40.00	-14.12
98.87	Peak	49.58	-21.86	27.72	43.50	-15.78
170.65	Peak	36.63	-16.75	19.88	43.50	-23.62
599.39	Peak	37.44	-9.13	28.31	46.00	-17.69
955.38	Peak	34.40	-4.05	30.35	46.00	-15.65
993.21	Peak	34.68	-3.77	30.91	54.00	-23.09

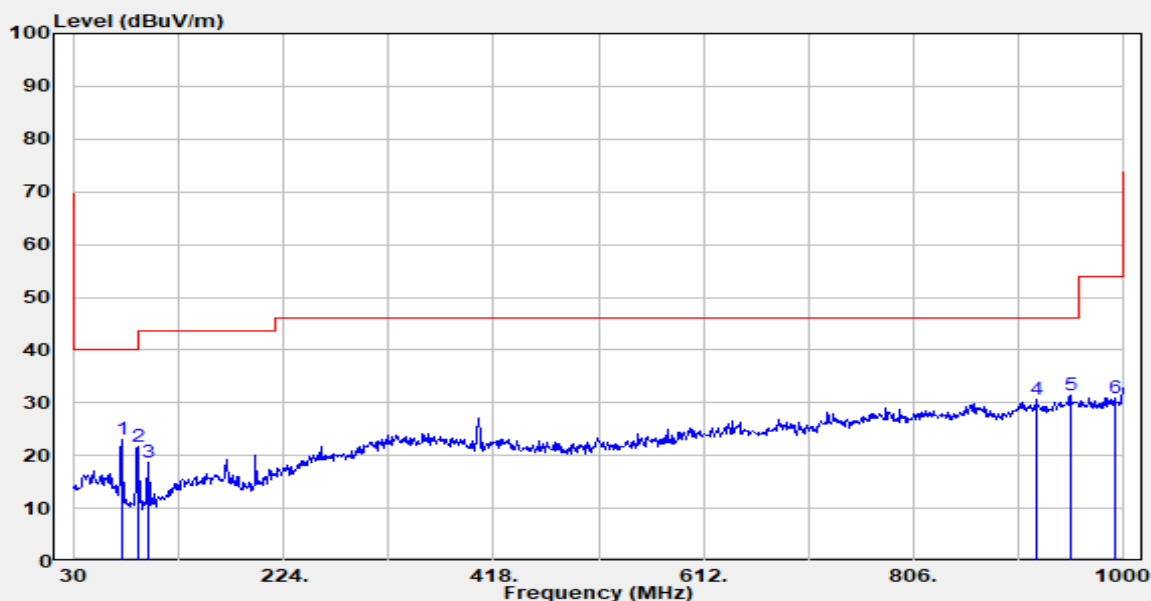
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



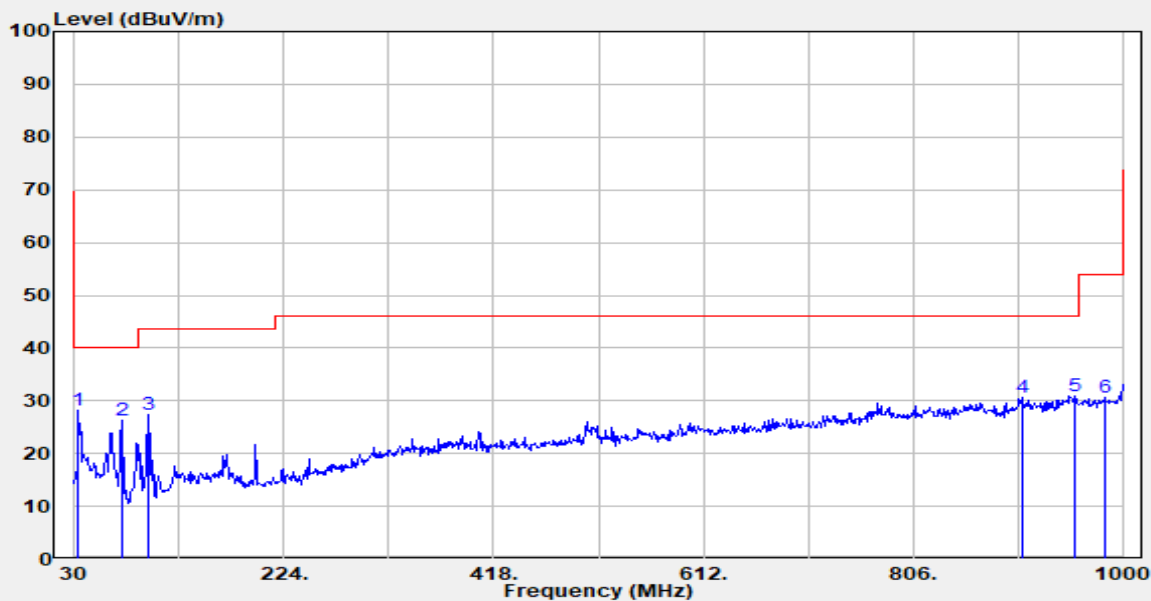
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	43.16	-20.23	22.93	40.00	-17.07
88.20	Peak	44.47	-22.90	21.57	43.50	-21.93
98.87	Peak	40.58	-21.86	18.72	43.50	-24.78
920.46	Peak	35.22	-4.69	30.53	46.00	-15.47
951.50	Peak	35.50	-4.08	31.42	46.00	-14.58
993.21	Peak	34.56	-3.77	30.79	54.00	-23.21

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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6995 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	46.91	-18.80	28.11	40.00	-11.89
73.65	Peak	46.54	-20.23	26.31	40.00	-13.69
98.87	Peak	49.15	-21.86	27.29	43.50	-16.21
906.88	Peak	35.50	-5.00	30.50	46.00	-15.50
955.38	Peak	34.96	-4.05	30.91	46.00	-15.09
983.51	Peak	34.58	-3.97	30.61	54.00	-23.39

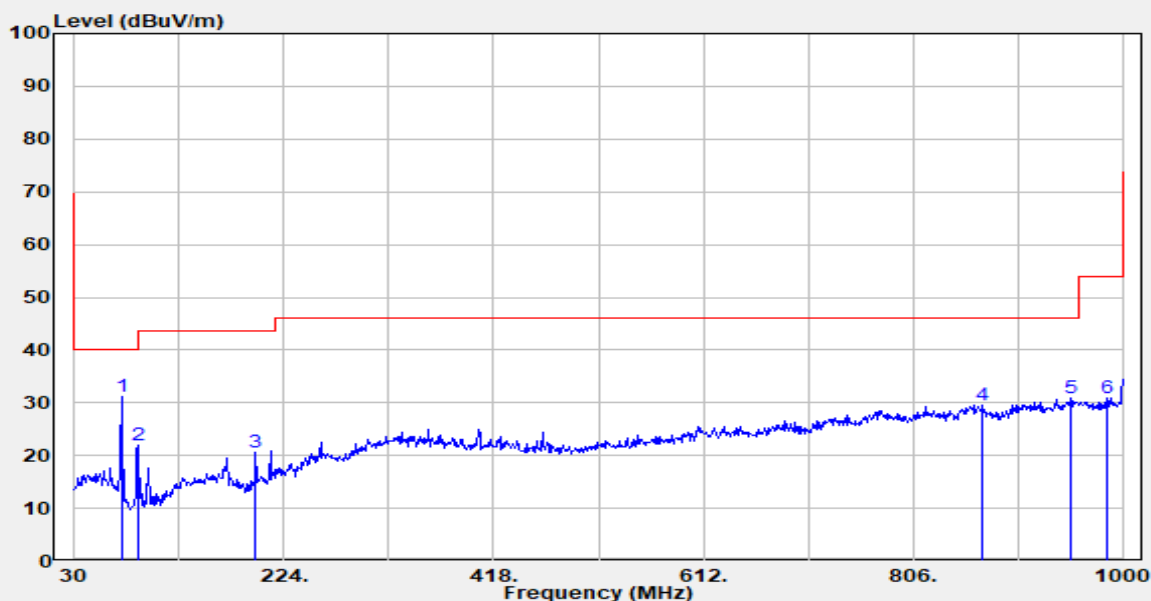
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6995 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



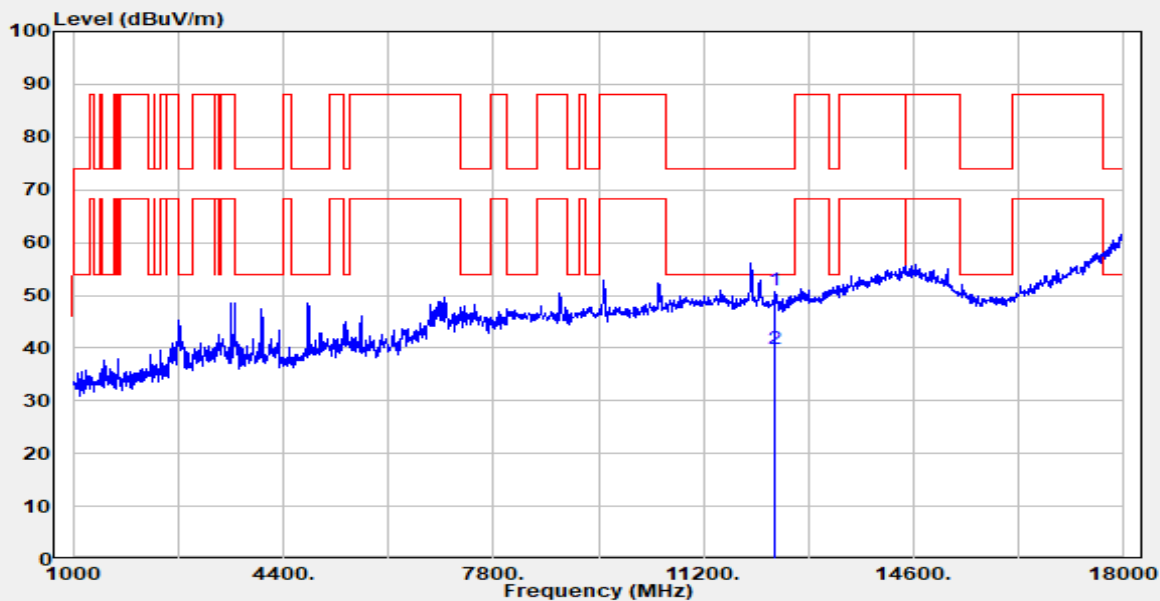
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	Peak	51.51	-20.23	31.28	40.00	-8.72
88.20	Peak	44.89	-22.90	21.99	43.50	-21.51
197.81	Peak	40.05	-19.38	20.67	43.50	-22.83
870.99	Peak	35.12	-5.49	29.63	46.00	-16.37
952.47	Peak	34.85	-4.07	30.78	46.00	-15.22
985.45	Peak	34.92	-3.98	30.94	54.00	-23.06

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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12350.00	Peak	42.79	8.23	51.02	74.00	-22.98
12350.00	Average	31.63	8.23	39.86	54.00	-14.14

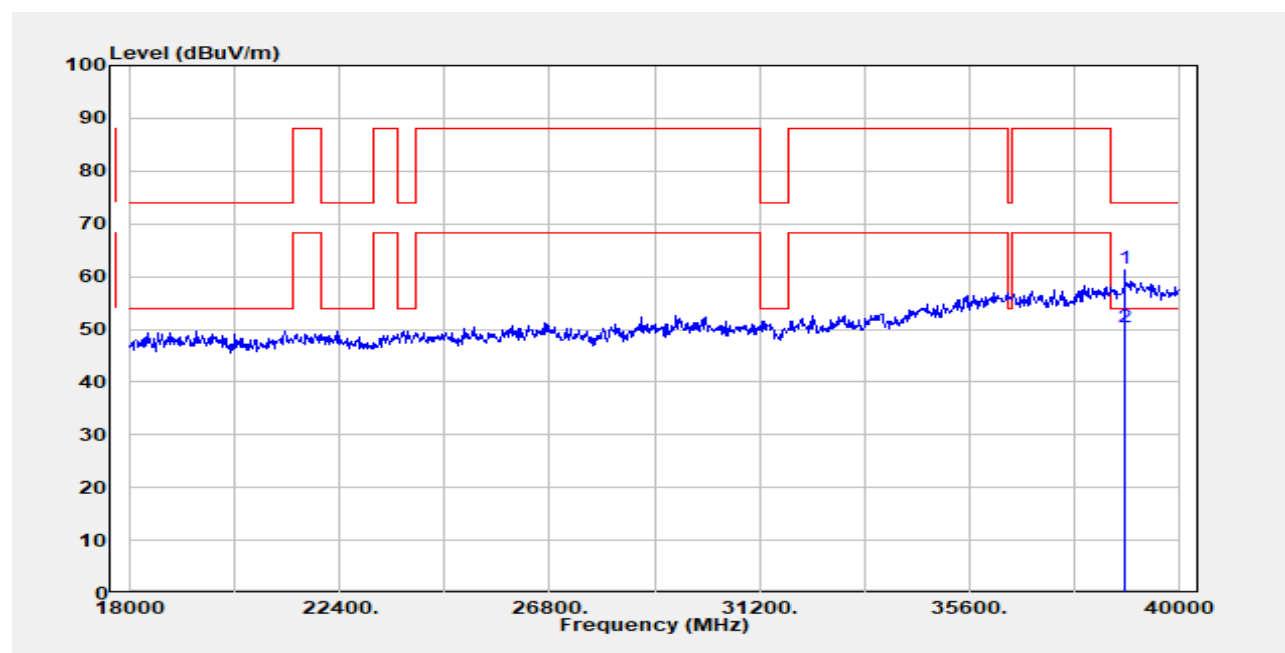
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



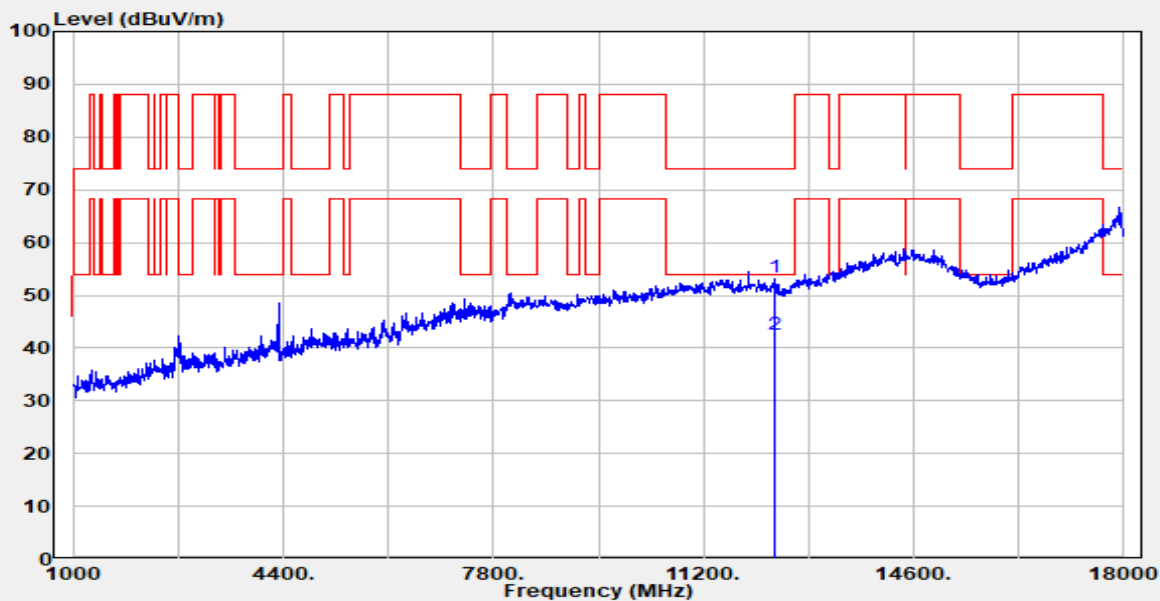
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38878.00	Peak	46.56	14.91	61.47	74.00	-12.53
38878.00	Average	35.52	14.91	50.43	54.00	-3.57

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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
12350.00	Peak	42.29	11.04	53.33	74.00	-20.67
12350.00	Average	31.45	11.04	42.49	54.00	-11.51

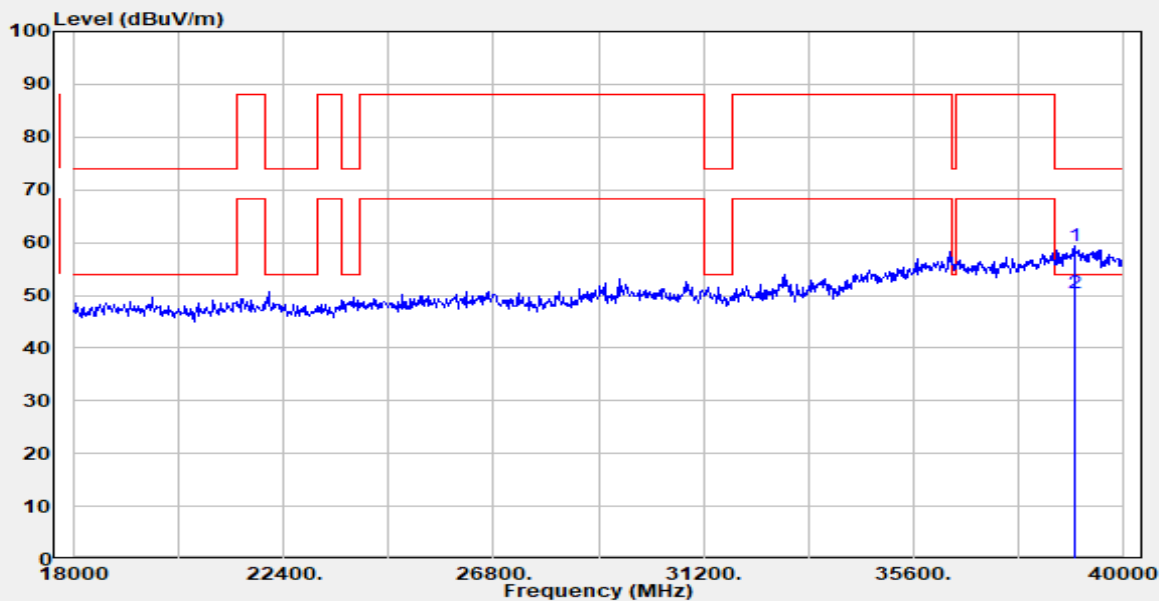
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
38988.00	Peak	44.39	15.09	59.48	74.00	-14.52
38988.00	Average	35.45	15.09	50.54	54.00	-3.46

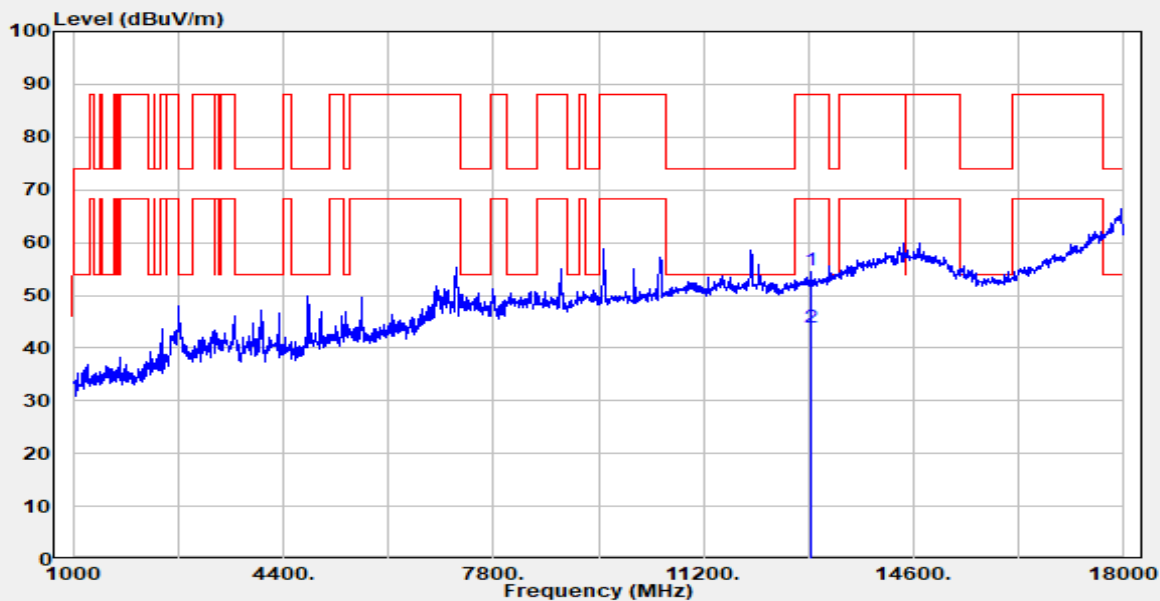
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12950.00	Peak	42.88	11.98	54.86	88.20	-33.34
12950.00	Average	31.91	11.98	43.89	68.20	-24.31

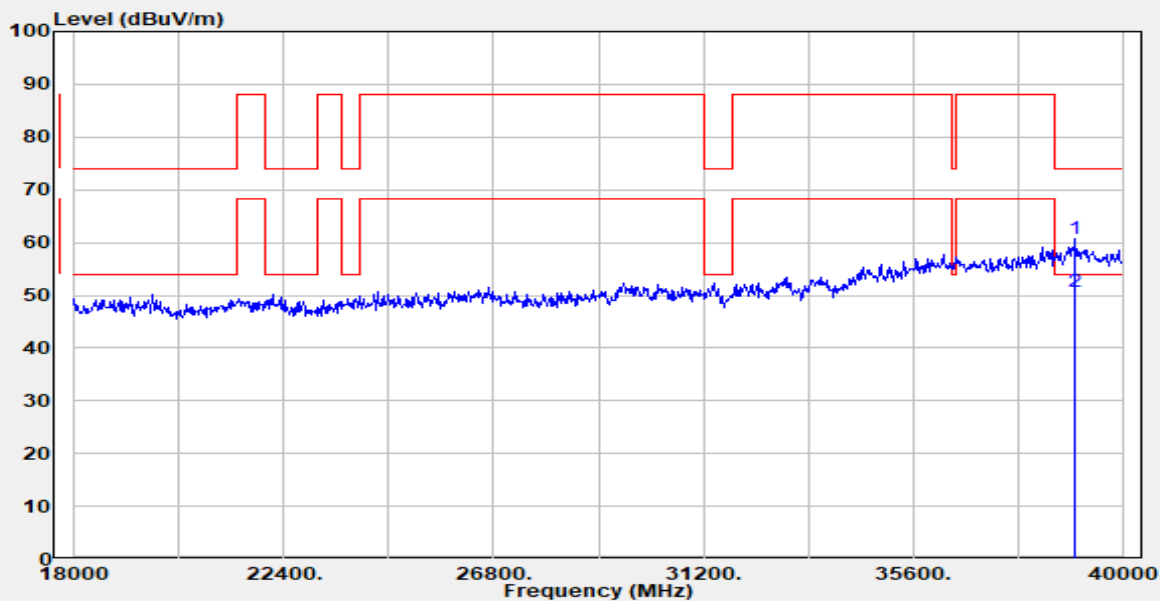
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Report Number :TERF2603000806E2
Operation Mode :802.11a
Test Frequency :6475 MHz
Test Mode :Tx
EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
39010.00	Peak	45.56	15.12	60.68	74.00	-13.32
39010.00	Average	35.65	15.12	50.77	54.00	-3.23

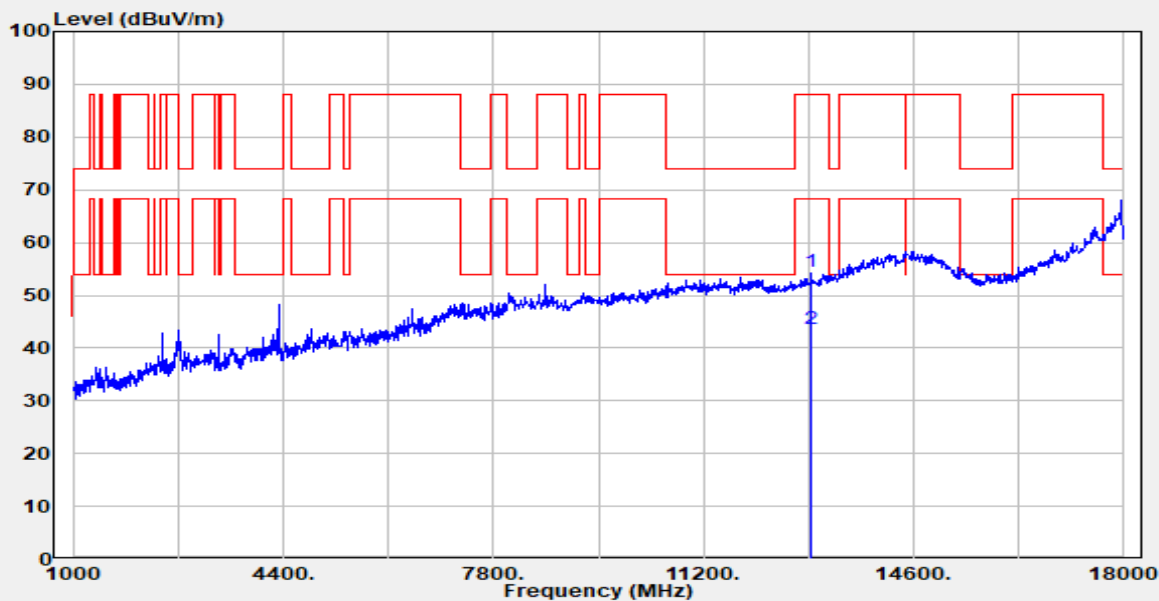
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
12950.00	Peak	42.58	11.98	54.56	88.20	-33.64
12950.00	Average	31.56	11.98	43.54	68.20	-24.66

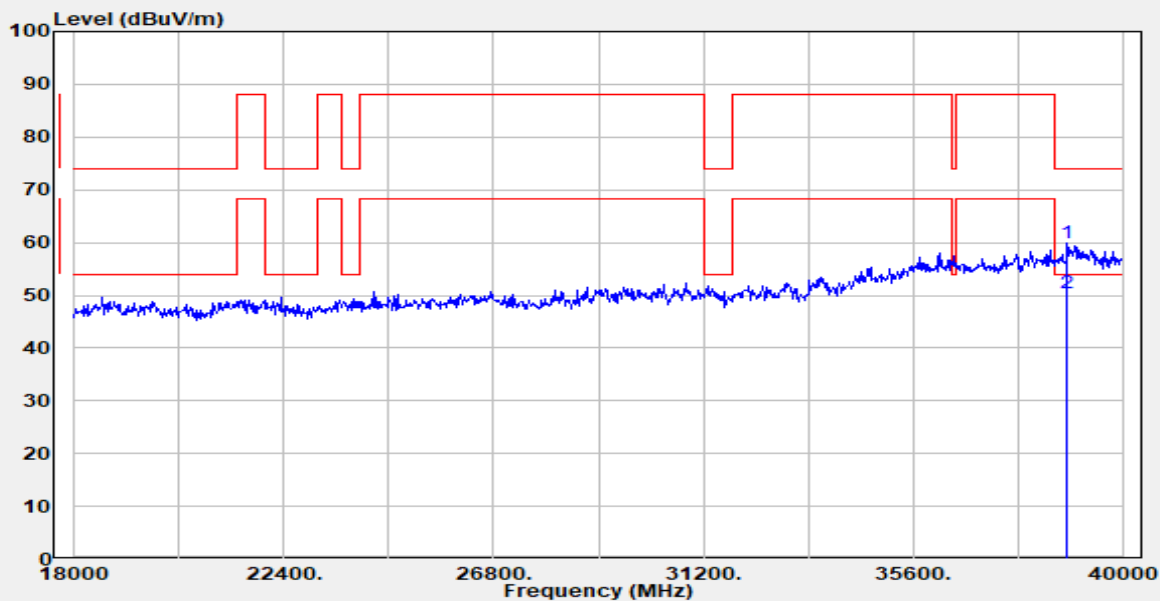
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38834.00	Peak	44.93	14.89	59.82	74.00	-14.18
38834.00	Average	35.57	14.89	50.46	54.00	-3.54

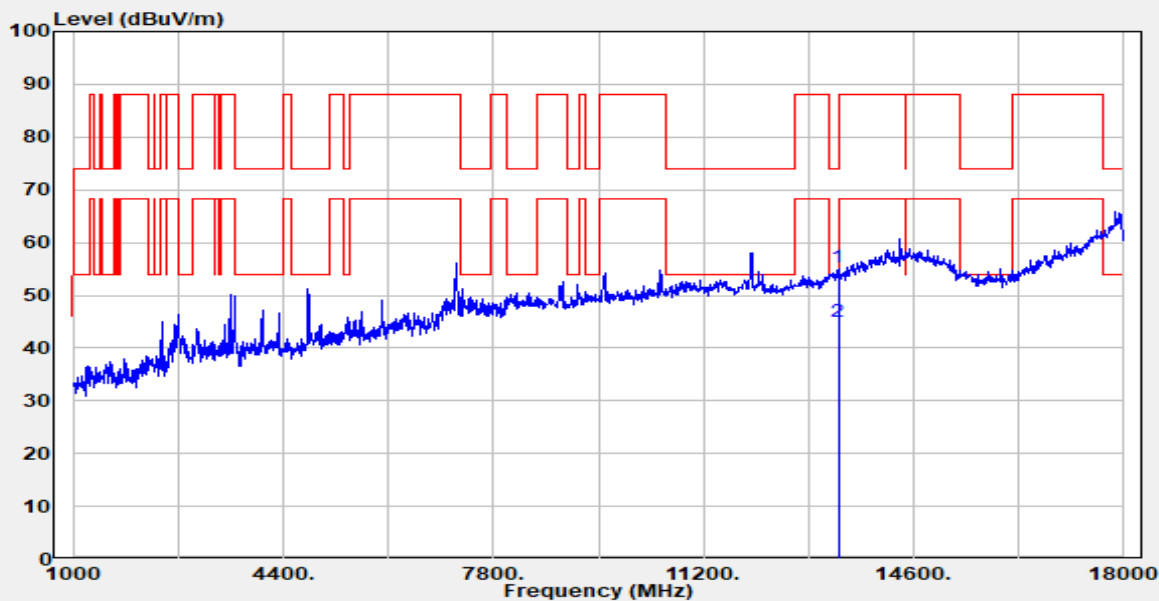
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
13390.00	Peak	42.62	12.77	55.39	74.00	-18.61
13390.00	Average	32.21	12.77	44.98	54.00	-9.02

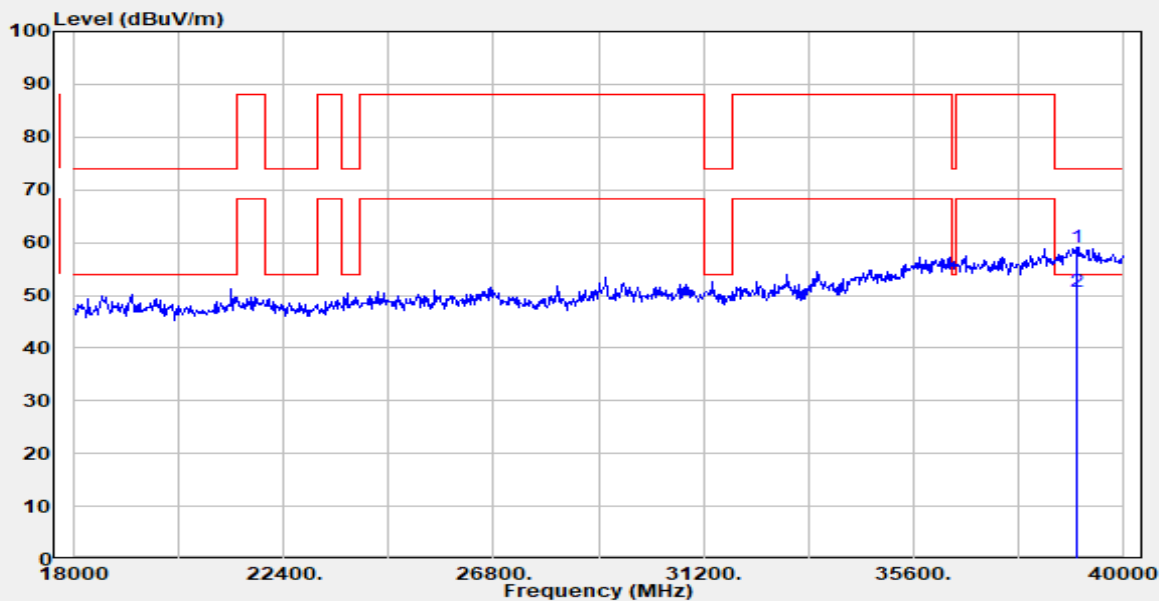
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
39032.00	Peak	43.89	15.10	58.99	74.00	-15.01
39032.00	Average	35.46	15.10	50.56	54.00	-3.44

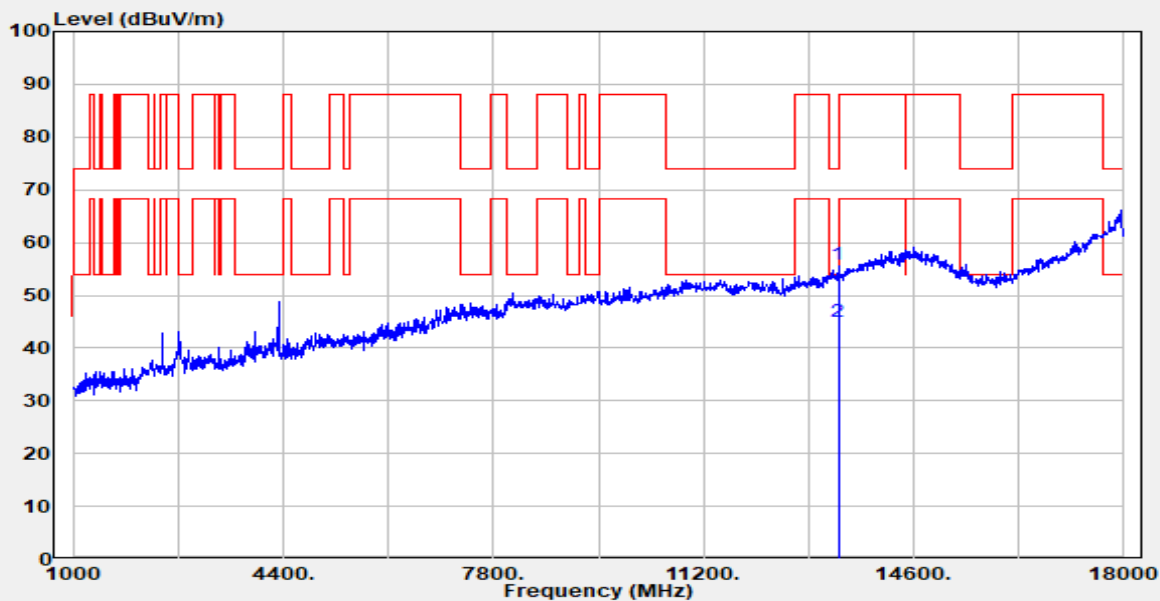
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13390.00	Peak	43.05	12.77	55.82	74.00	-18.18
13390.00	Average	32.13	12.77	44.90	54.00	-9.10

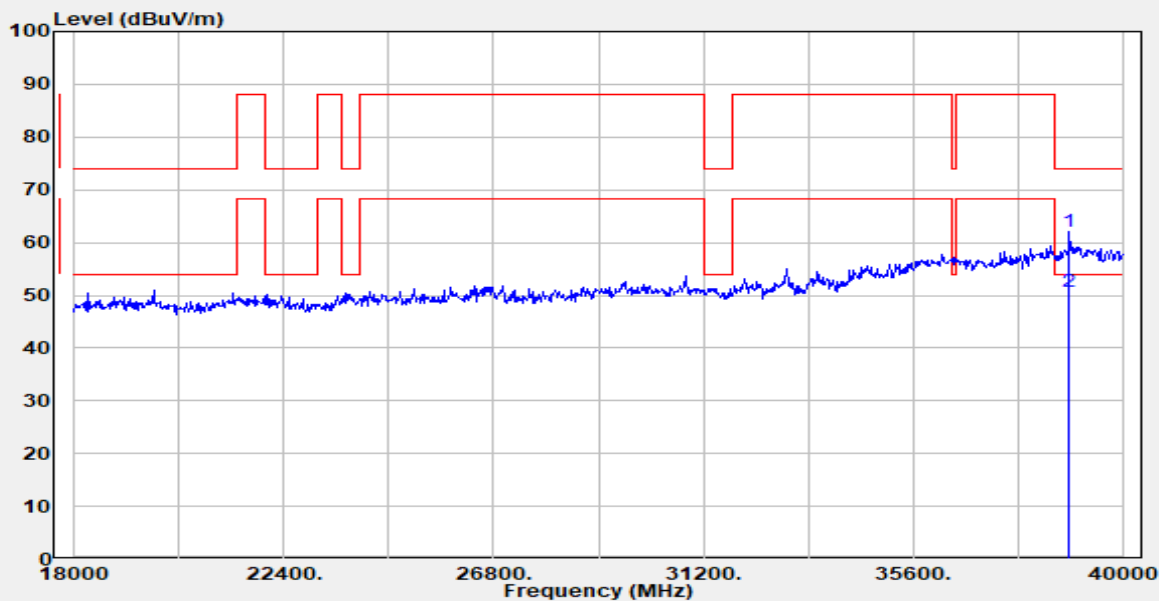
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38878.00	Peak	47.07	14.91	61.98	74.00	-12.02
38878.00	Average	35.84	14.91	50.75	54.00	-3.25

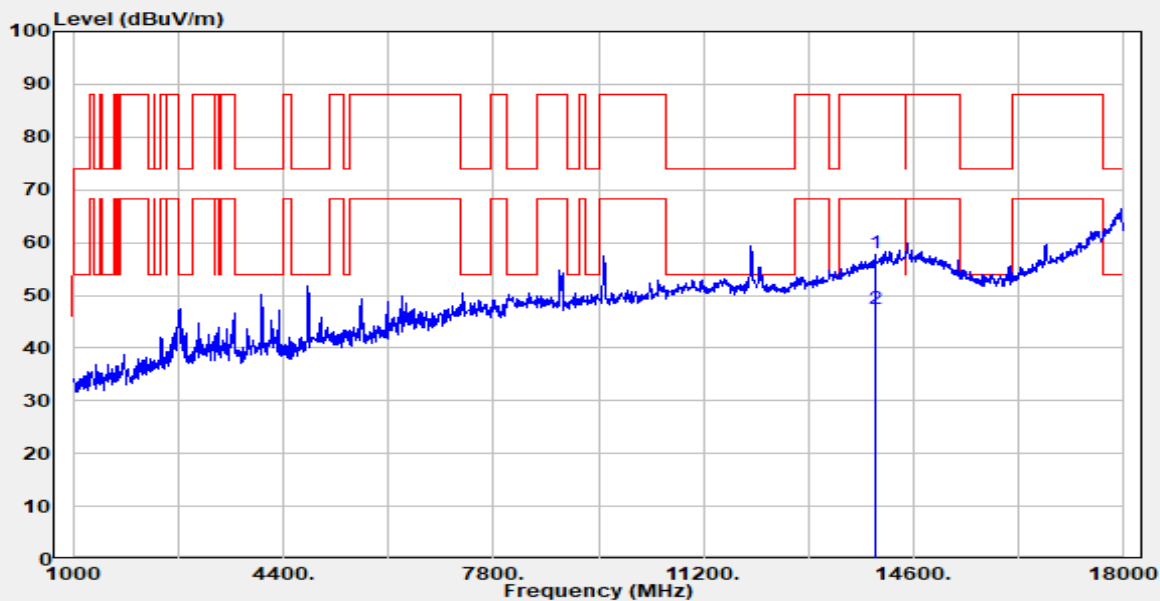
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6995 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13990.00	Peak	43.77	14.19	57.96	88.20	-30.24
13990.00	Average	33.27	14.19	47.46	68.20	-20.74

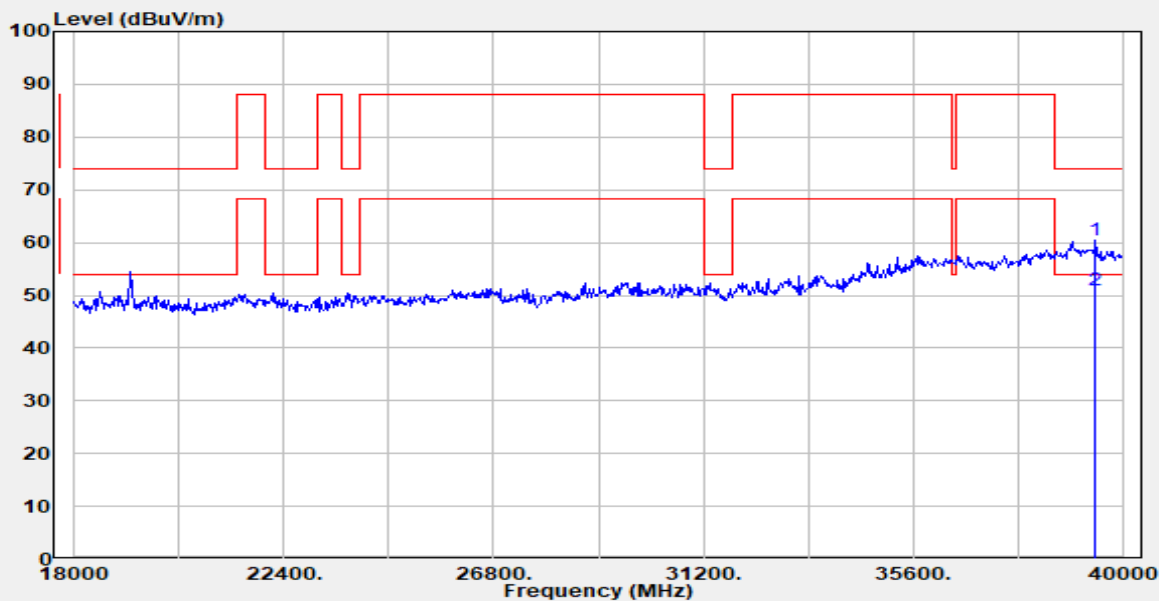
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6995 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
39428.00	Peak	45.08	15.37	60.45	74.00	-13.55
39428.00	Average	35.45	15.37	50.82	54.00	-3.18

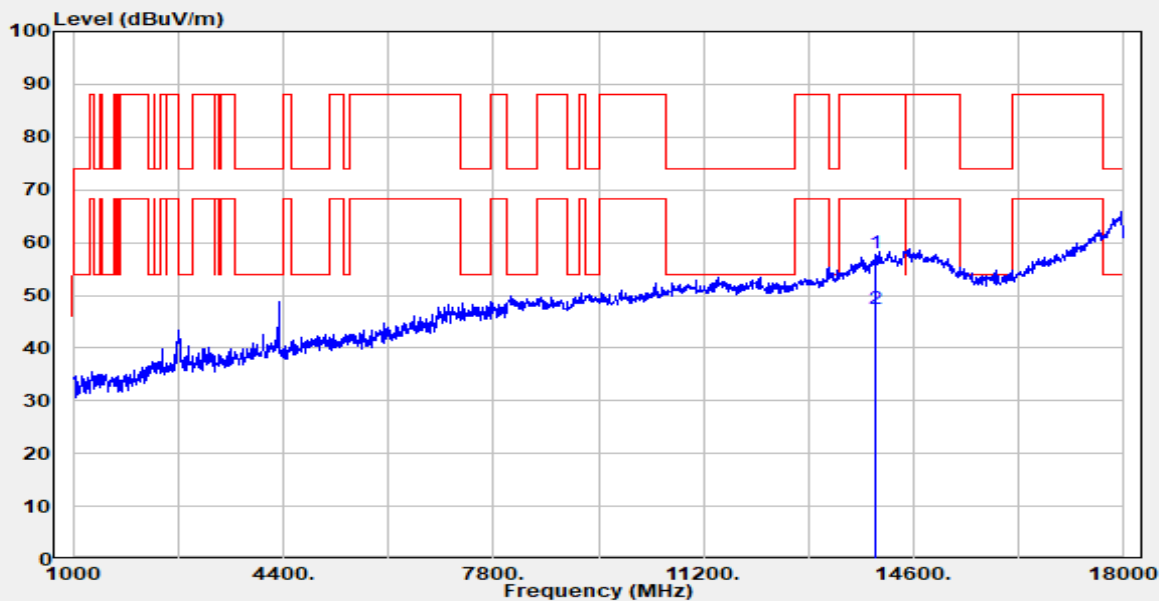
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6995 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13990.00	Peak	43.86	14.19	58.05	88.20	-30.15
13990.00	Average	33.21	14.19	47.40	68.20	-20.80

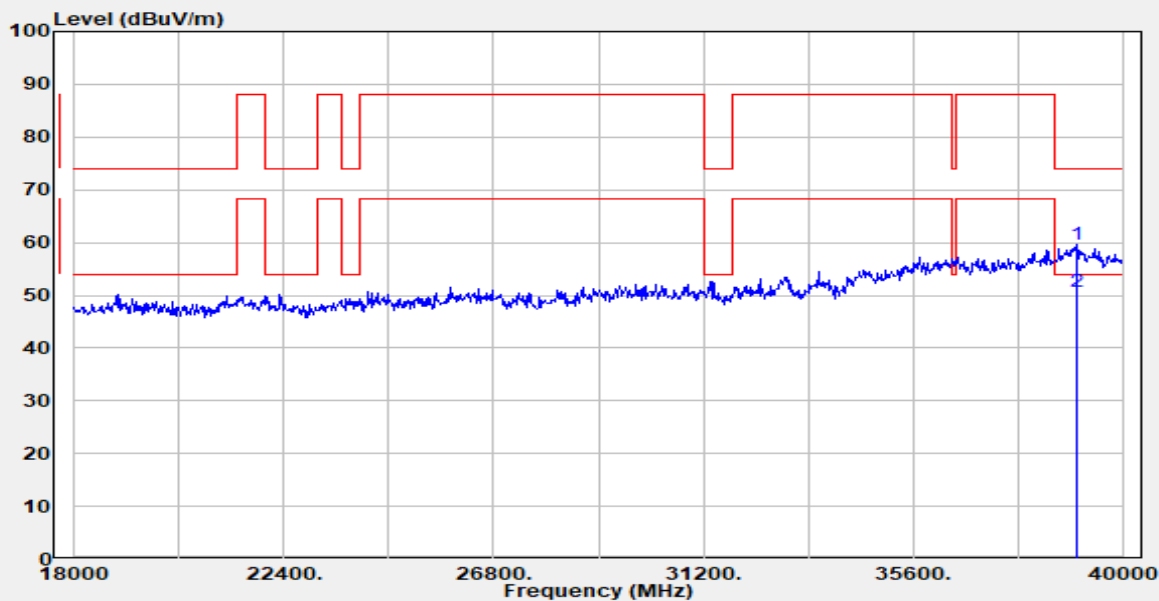
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Report Number :TERF2603000806E2
 Operation Mode :802.11a
 Test Frequency :6995 MHz
 Test Mode :Tx
 EUT Pol :NB Mode

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



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
39032.00	Peak	44.64	15.10	59.74	74.00	-14.26
39032.00	Average	35.62	15.10	50.72	54.00	-3.28

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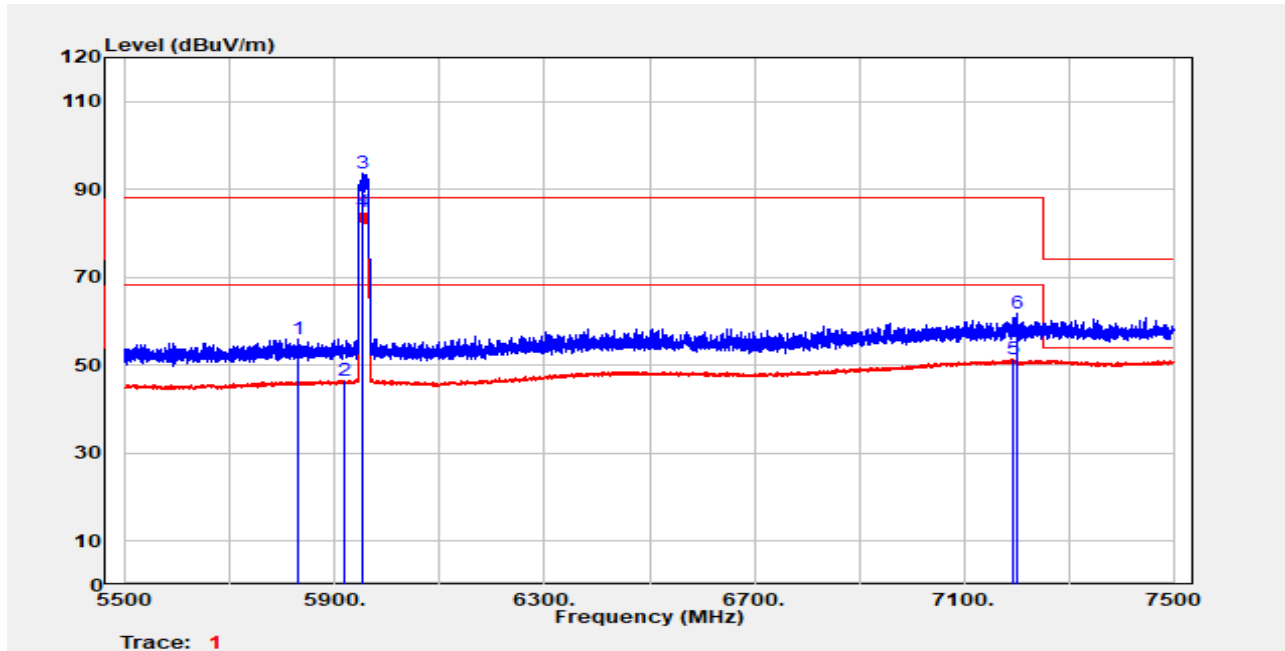
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7.2.2 Band Edge

Report Number :TERF2603000806E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



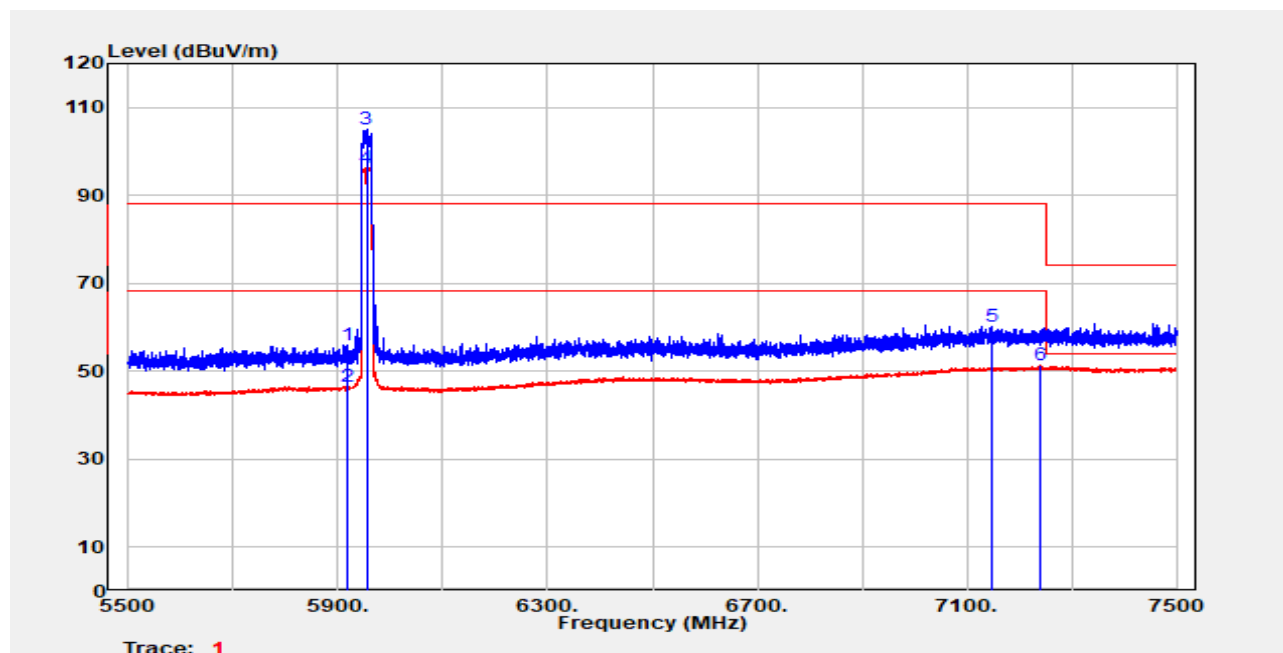
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5829.29	Peak	53.18	2.90	56.08	88.20	-32.12
5918.05	Average	43.55	3.09	46.64	68.20	-21.56
5951.56	Peak	90.47	3.17	93.64	-	-
5951.56	Average	81.86	3.17	85.03	-	-
7192.96	Average	43.92	7.47	51.39	68.20	-16.81
7202.46	Peak	54.28	7.47	61.75	88.20	-26.45

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Report Number :TERF2603000806E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5917.80	Peak	52.96	3.09	56.05	88.20	-32.15
5919.30	Average	43.54	3.09	46.63	68.20	-21.57
5954.06	Peak	101.73	3.17	104.90	-	-
5954.06	Average	93.07	3.17	96.24	-	-
7146.96	Peak	52.71	7.52	60.23	88.20	-27.97
7238.47	Average	43.60	7.63	51.23	68.20	-16.97

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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

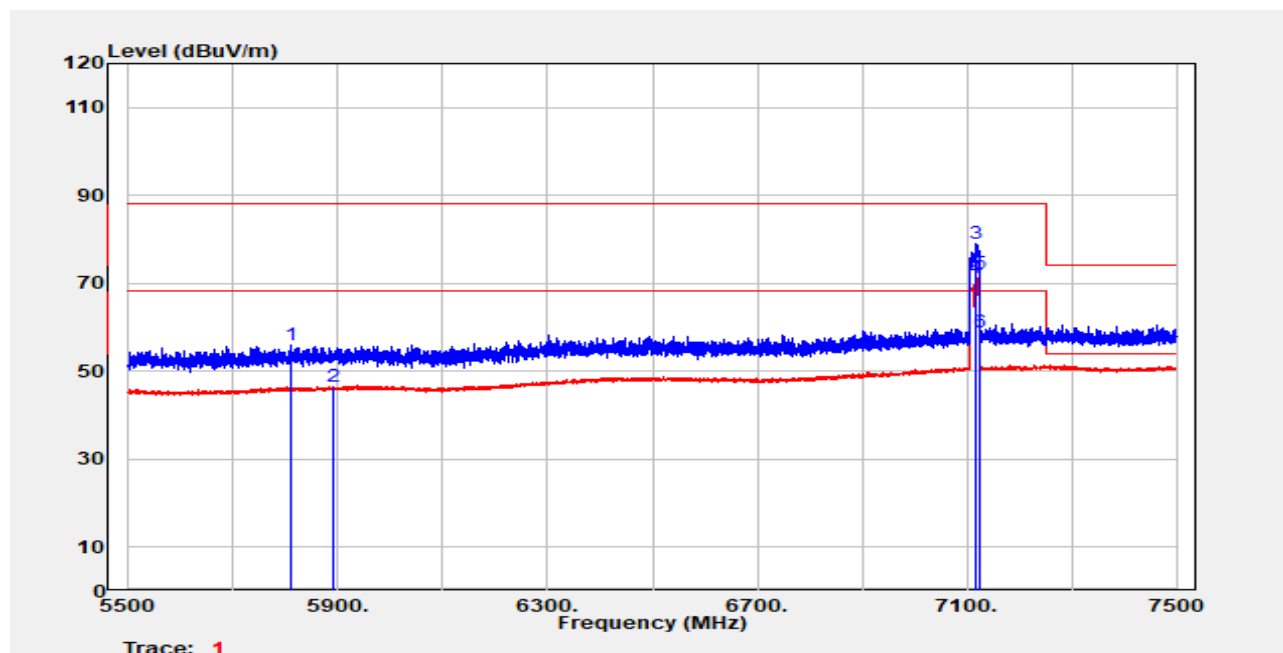
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Member of SGS Group

Report Number :TERF2603000806E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :7115 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5810.79	Peak	52.97	2.90	55.87	88.20	-32.33
5891.80	Average	43.46	3.01	46.47	68.20	-21.73
7116.45	Peak	71.56	7.50	79.06	-	-
7116.45	Average	63.87	7.50	71.37	-	-
7125.00	Peak	64.66	7.50	72.16	88.20	-16.04
7125.00	Average	51.24	7.50	58.74	68.20	-9.46

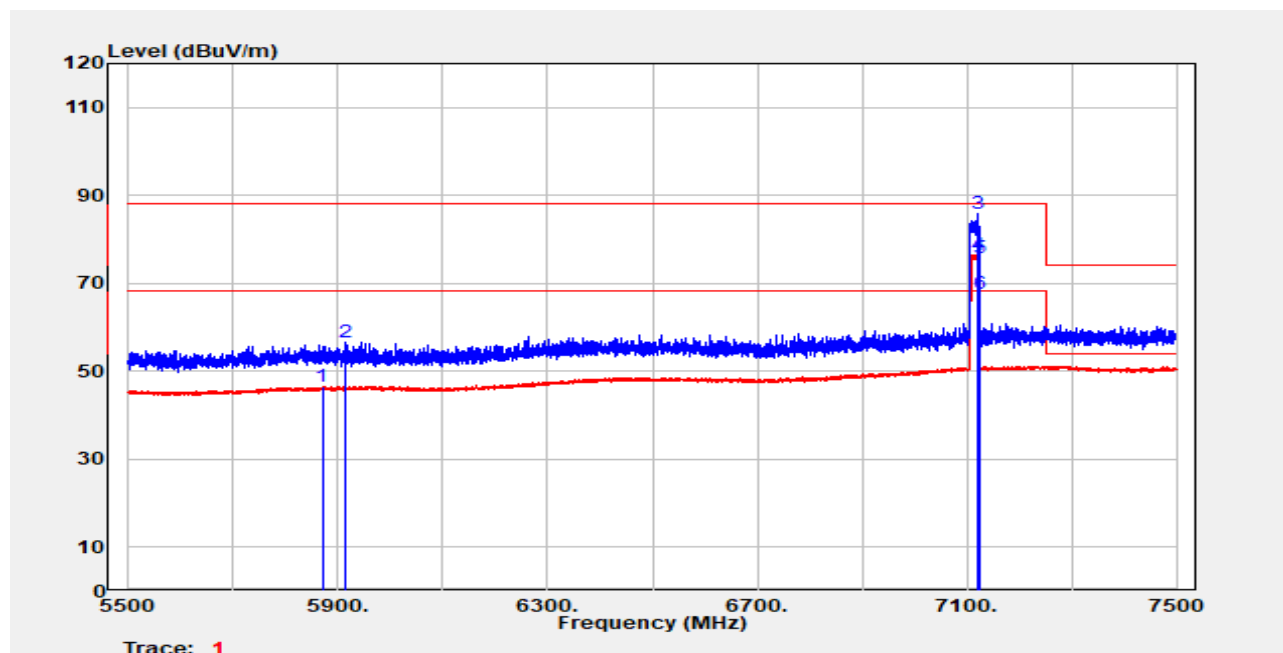
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax20 RU Full
 Test Frequency :7115 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5869.55	Average	43.62	2.97	46.59	68.20	-21.61
5912.05	Peak	53.45	3.06	56.51	88.20	-31.69
7120.95	Peak	78.26	7.50	85.76	-	-
7120.95	Average	68.99	7.50	76.49	-	-
7125.00	Peak	68.19	7.50	75.69	88.20	-12.51
7125.00	Average	60.17	7.50	67.67	68.20	-0.53

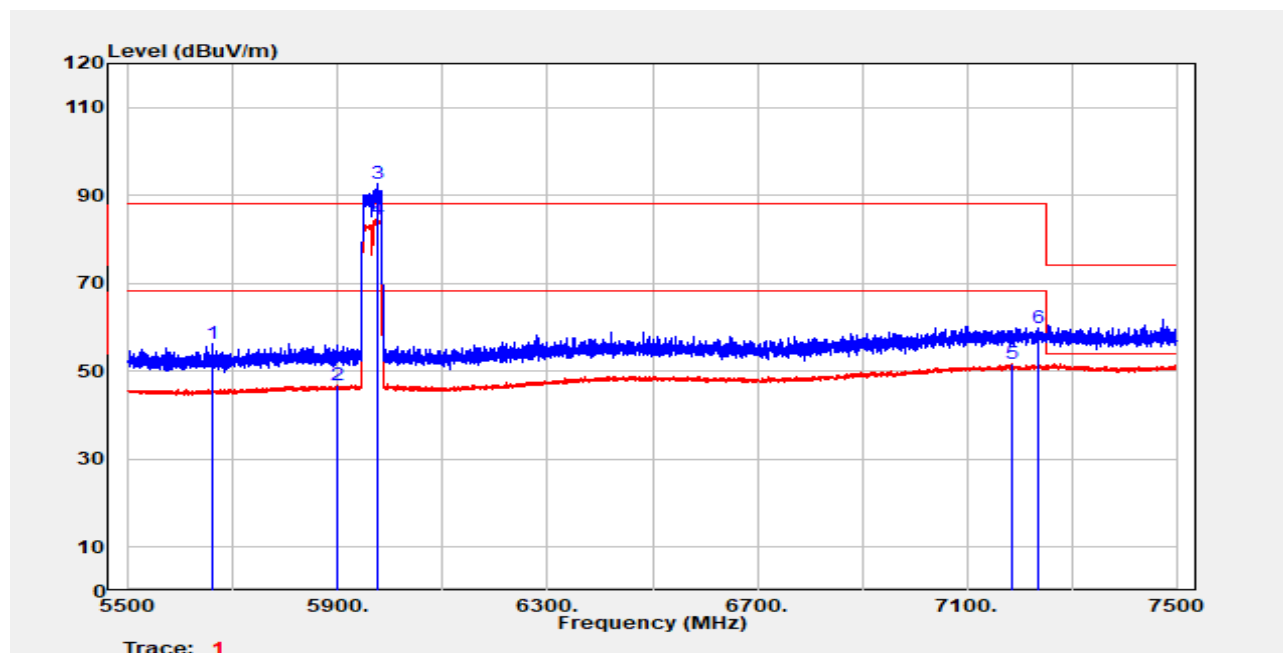
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :5965 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5661.02	Peak	53.93	2.30	56.23	88.20	-31.97
5898.30	Average	43.75	3.04	46.79	68.20	-21.41
5973.81	Peak	89.51	3.18	92.69	-	-
5973.81	Average	81.44	3.18	84.62	-	-
7185.21	Average	44.37	7.47	51.84	68.20	-16.36
7236.72	Peak	52.25	7.63	59.88	88.20	-28.32

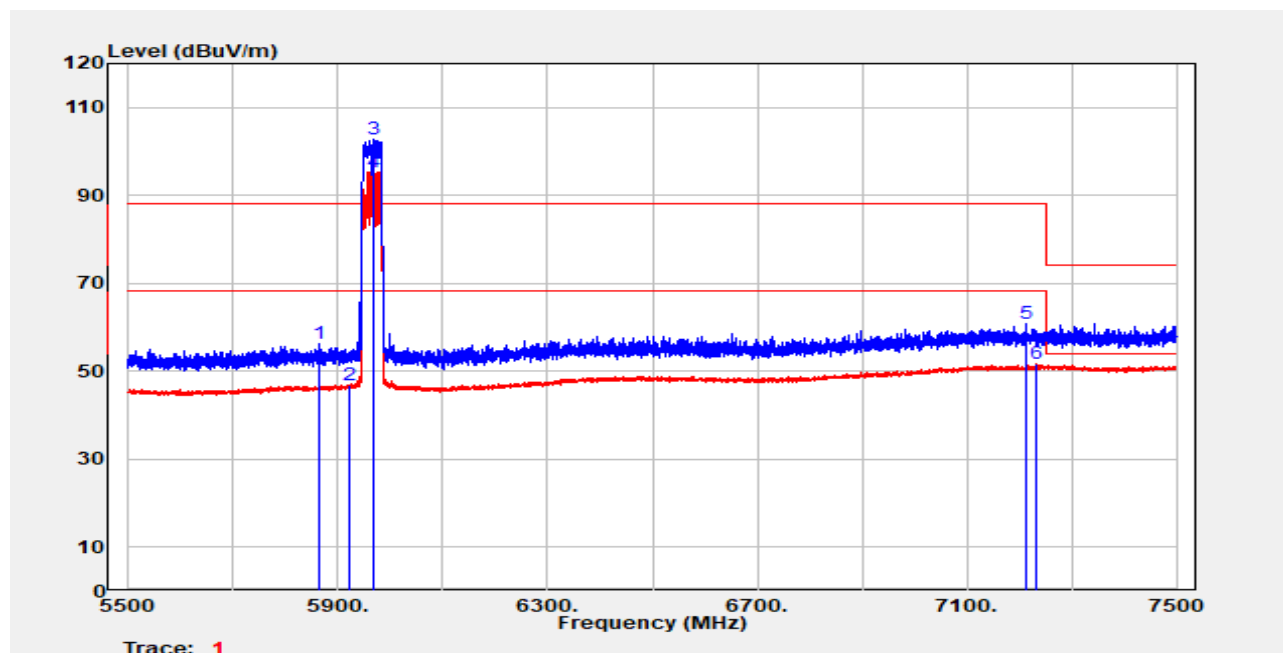
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :5965 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5863.30	Peak	53.26	2.95	56.21	88.20	-31.99
5922.80	Average	43.69	3.11	46.80	68.20	-21.40
5967.81	Peak	99.45	3.18	102.63	-	-
5967.81	Average	92.19	3.18	95.37	-	-
7212.96	Peak	53.16	7.51	60.67	88.20	-27.53
7232.97	Average	44.04	7.61	51.65	68.20	-16.55

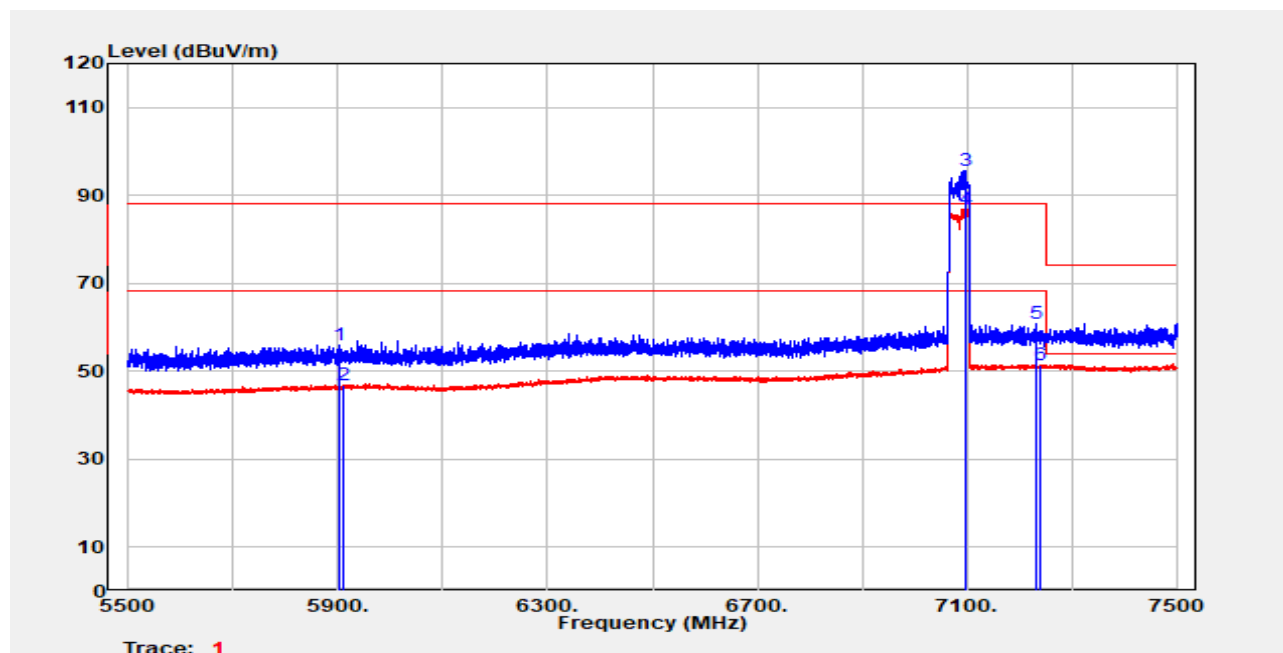
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5902.05	Peak	52.94	3.04	55.98	88.20	-32.22
5910.30	Average	43.77	3.06	46.83	68.20	-21.37
7098.20	Peak	88.18	7.47	95.65	-	-
7098.20	Average	79.42	7.47	86.89	-	-
7232.72	Peak	53.20	7.61	60.81	88.20	-27.39
7240.22	Average	43.79	7.64	51.43	68.20	-16.77

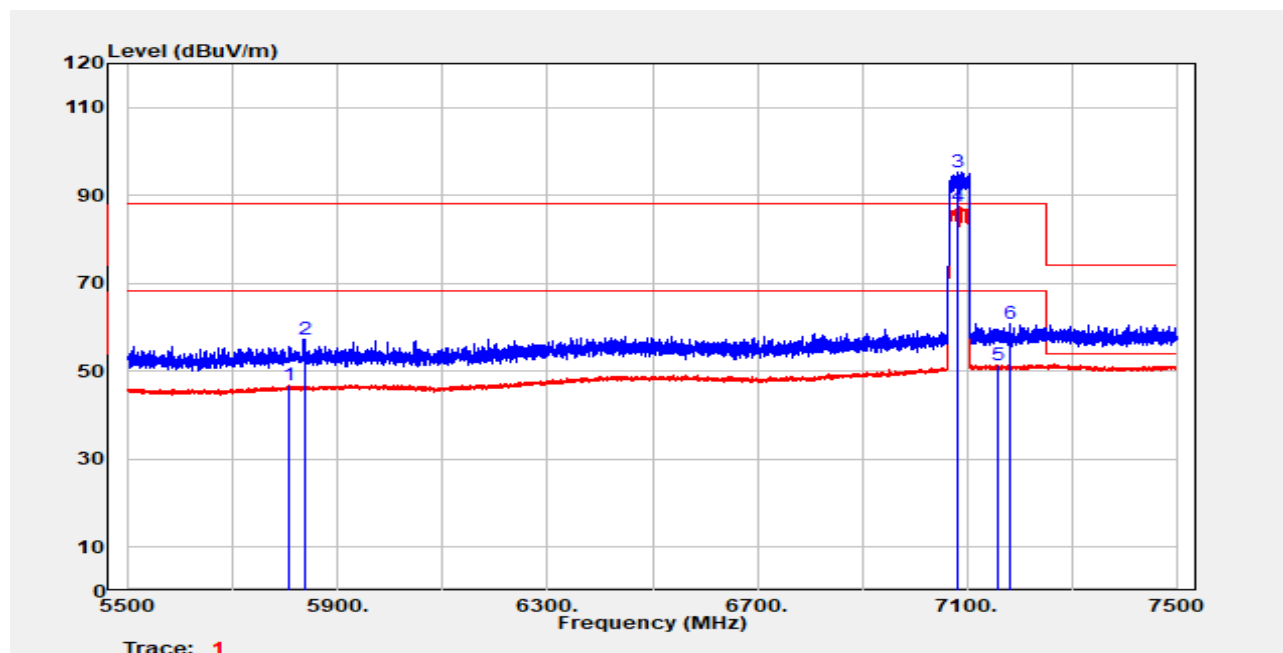
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5806.54	Average	43.82	2.90	46.72	68.20	-21.48
5835.04	Peak	54.30	2.91	57.21	88.20	-30.99
7081.45	Peak	87.90	7.42	95.32	-	-
7081.45	Average	80.06	7.42	87.48	-	-
7158.96	Average	44.01	7.51	51.52	68.20	-16.68
7182.71	Peak	53.26	7.48	60.74	88.20	-27.46

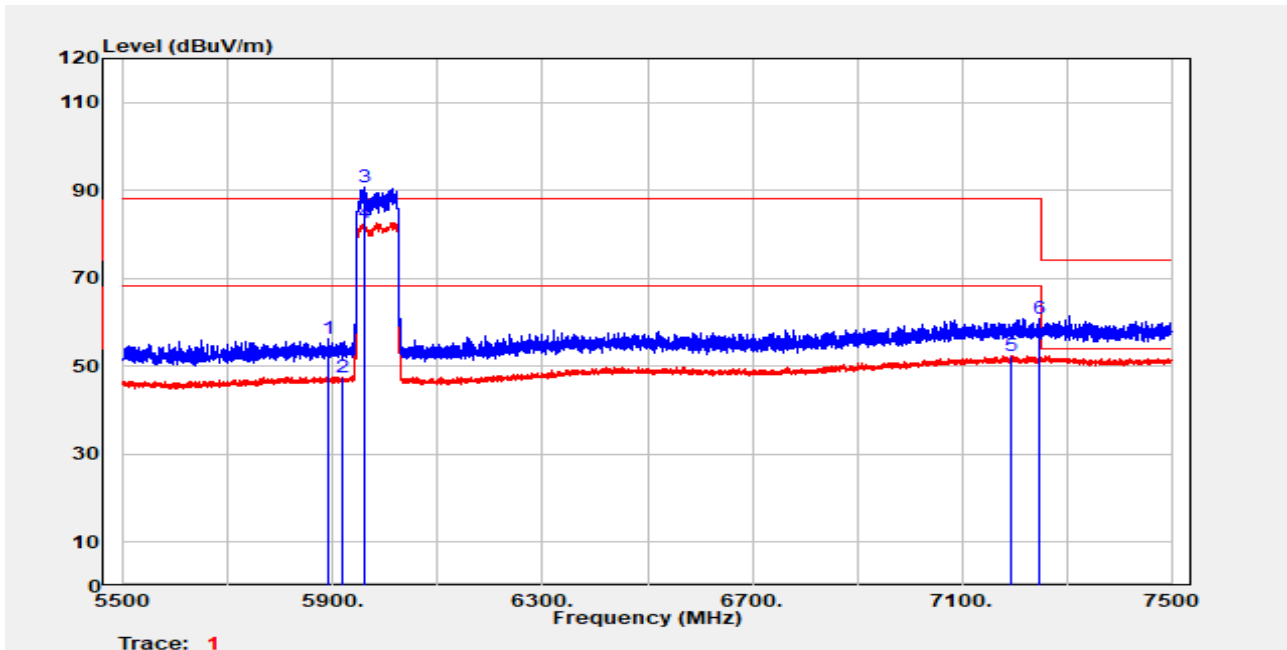
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax80 RU Full
 Test Frequency :5985 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5889.55	Peak	53.20	3.01	56.21	88.20	-31.99
5917.80	Average	44.46	3.09	47.55	68.20	-20.65
5958.81	Peak	87.41	3.17	90.58	-	-
5958.81	Average	79.52	3.17	82.69	-	-
7194.46	Average	44.98	7.47	52.45	68.20	-15.75
7247.47	Peak	53.23	7.67	60.90	88.20	-27.30

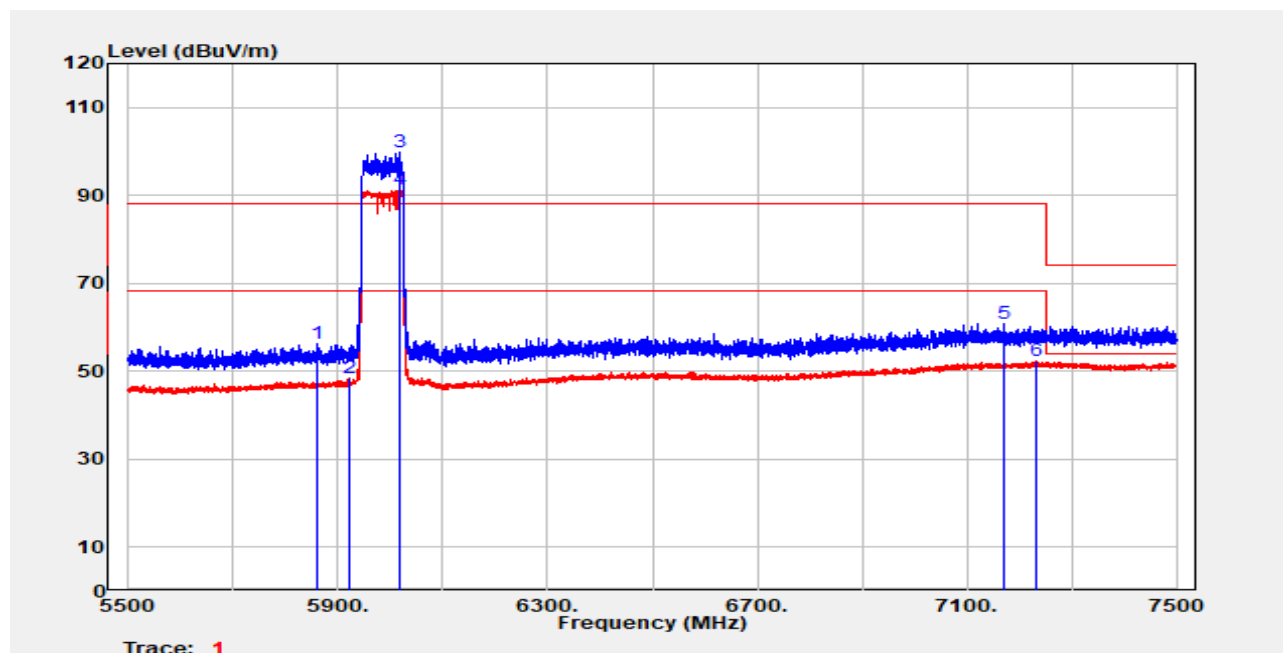
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax80 RU Full
 Test Frequency :5985 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5860.55	Peak	53.28	2.94	56.22	88.20	-31.98
5920.55	Average	45.27	3.09	48.36	68.20	-19.84
6018.82	Peak	96.49	3.22	99.71	-	-
6018.82	Average	88.05	3.22	91.27	-	-
7169.71	Peak	53.40	7.50	60.90	88.20	-27.30
7233.22	Average	44.59	7.61	52.20	68.20	-16.00

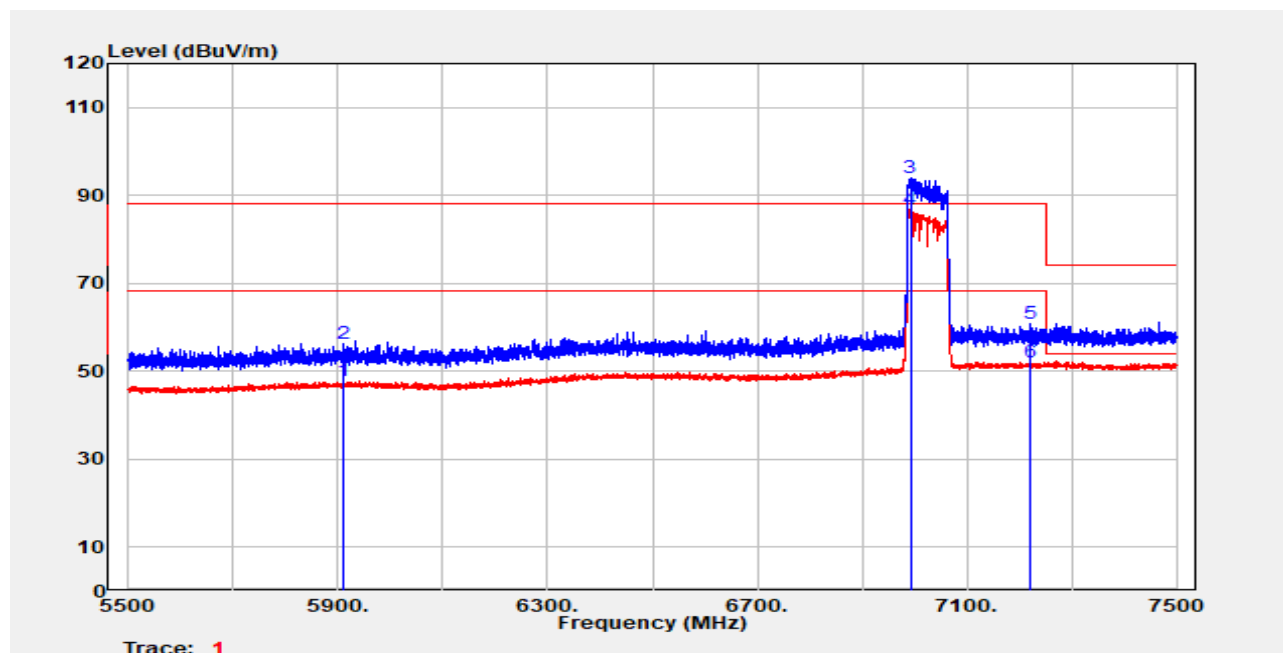
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Report Number :TERF2603000806E2
Operation Mode :802.11ax80 RU Full
Test Frequency :7025 MHz
Test Mode :Bandedge
EUT Pol :NB Mode

Test Site :SAC D
Test Date :2026-03-27
Temp./Humi. :23.2°C/65%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5909.55	Average	44.59	3.07	47.66	68.20	-20.54
5910.55	Peak	53.29	3.06	56.35	88.20	-31.85
6992.19	Peak	87.33	6.77	94.10	-	-
6992.19	Average	80.08	6.77	86.85	-	-
7220.22	Peak	53.13	7.55	60.68	88.20	-27.52
7222.47	Average	44.49	7.56	52.05	68.20	-16.15

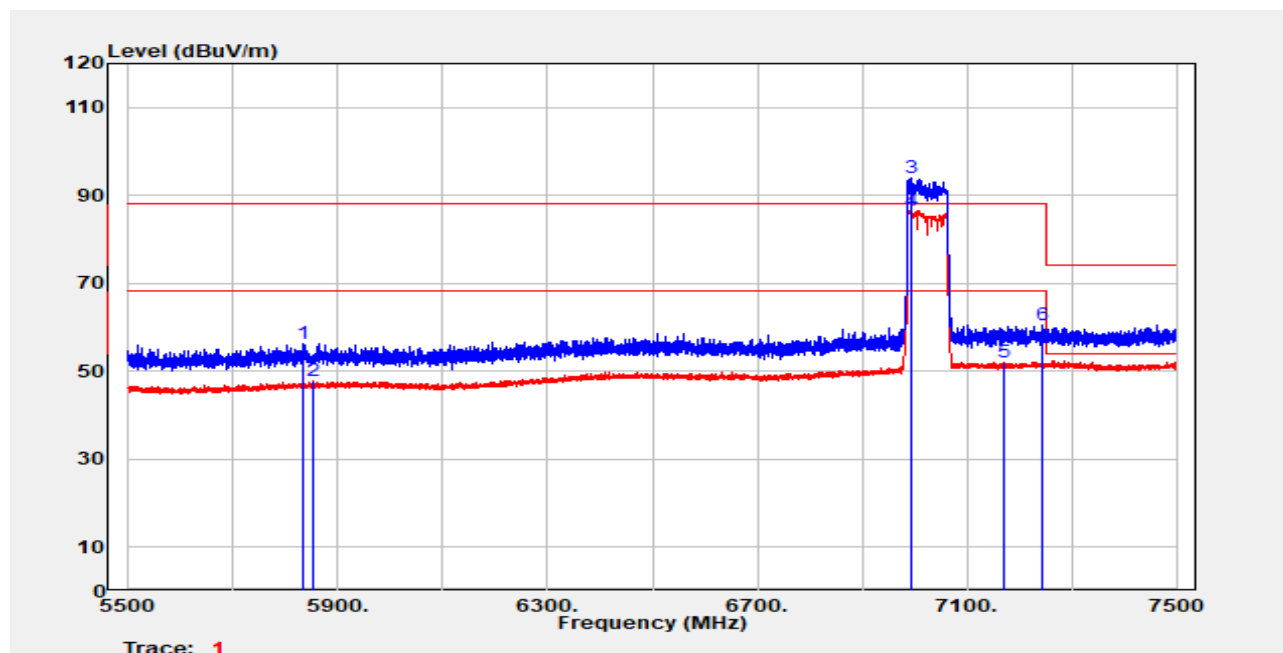
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax80 RU Full
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5833.29	Peak	53.43	2.91	56.34	88.20	-31.86
5853.54	Average	44.74	2.92	47.66	68.20	-20.54
6994.94	Peak	87.23	6.79	94.02	-	-
6994.94	Average	79.67	6.79	86.46	-	-
7170.21	Average	44.61	7.50	52.11	68.20	-16.09
7243.47	Peak	52.68	7.65	60.33	88.20	-27.87

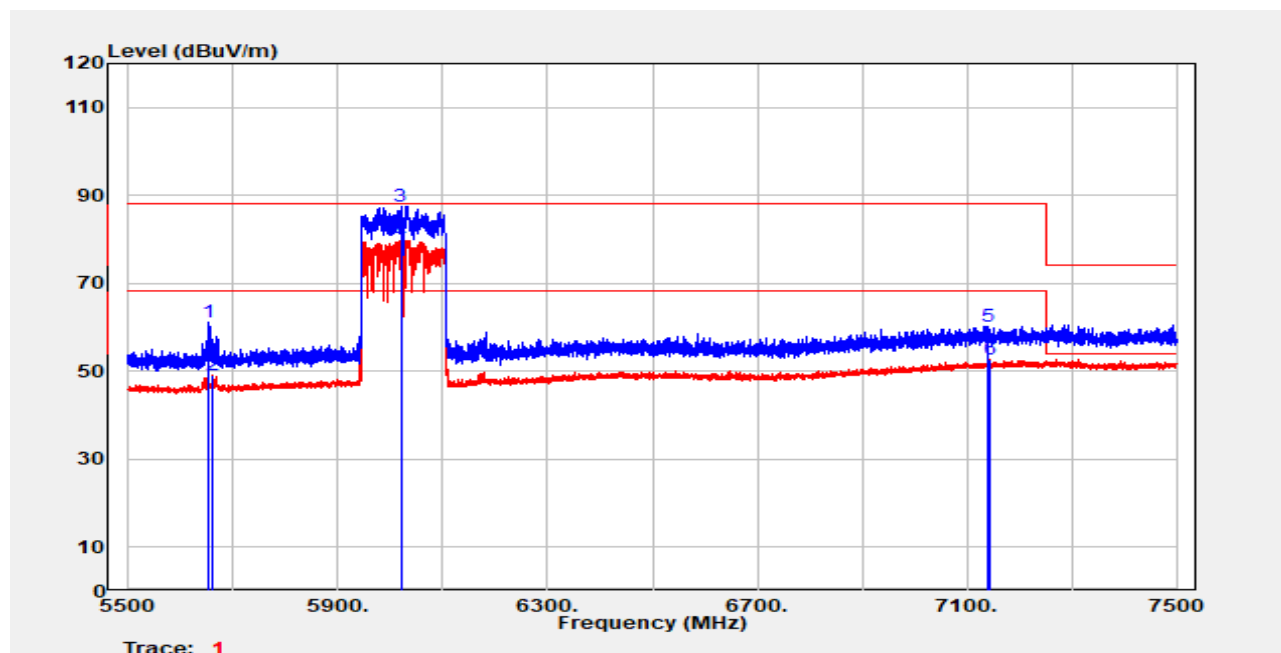
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6025 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5654.02	Peak	58.79	2.27	61.06	88.20	-27.14
5660.52	Average	46.66	2.30	48.96	68.20	-19.24
6019.57	Peak	84.32	3.22	87.54	-	-
6019.57	Average	76.52	3.22	79.74	-	-
7139.96	Peak	52.70	7.51	60.21	88.20	-27.99
7143.96	Average	45.05	7.52	52.57	68.20	-15.63

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

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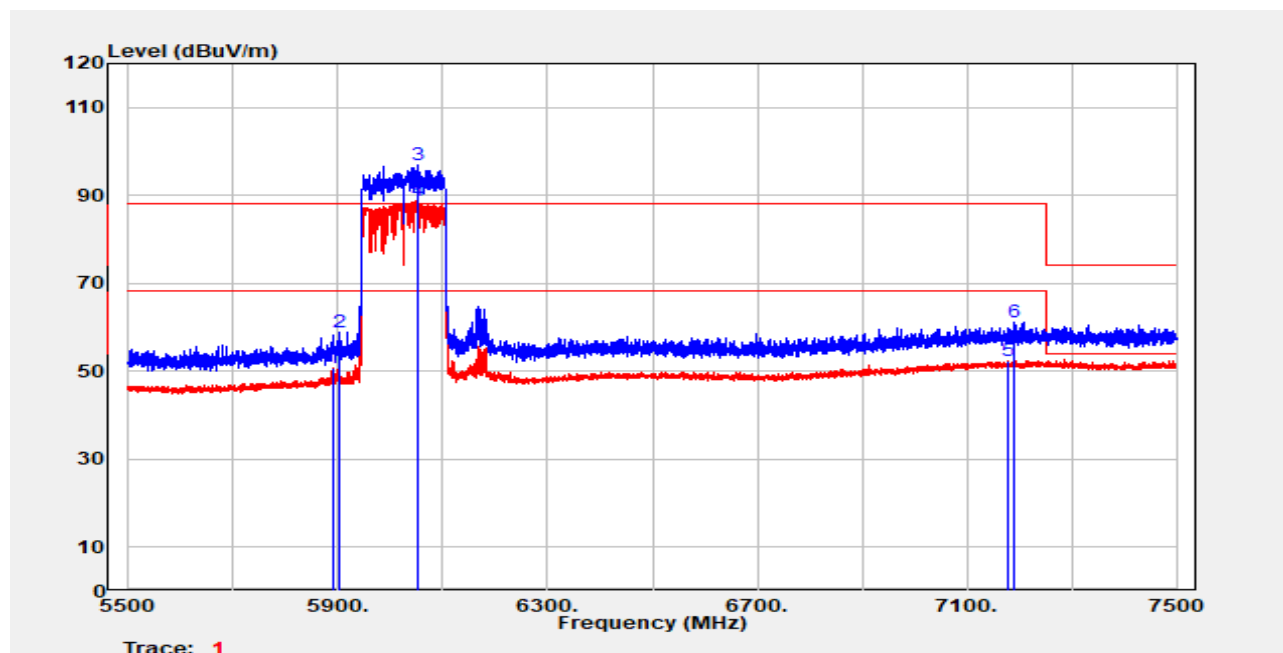
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6025 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5889.80	Average	47.73	3.01	50.74	68.20	-17.46
5901.05	Peak	55.94	3.04	58.98	88.20	-29.22
6051.07	Peak	93.79	3.25	97.04	-	-
6051.07	Average	85.60	3.25	88.85	-	-
7177.71	Average	45.02	7.49	52.51	68.20	-15.69
7189.96	Peak	53.60	7.47	61.07	88.20	-27.13

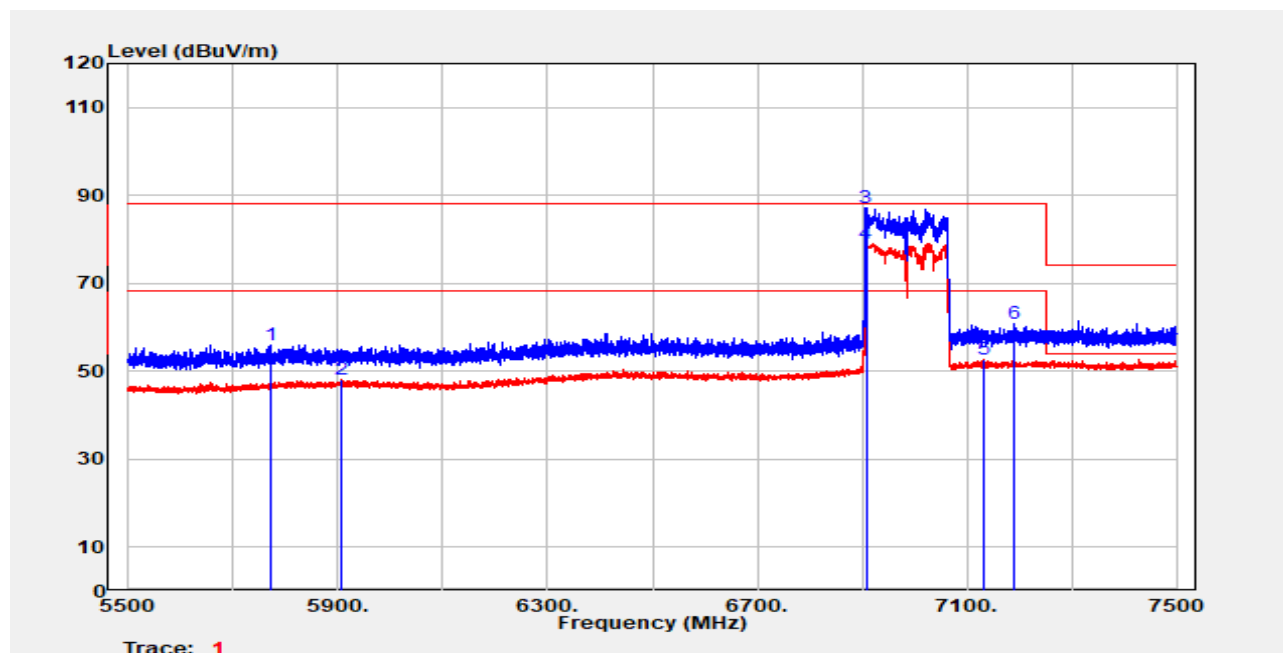
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Report Number :TERF2603000806E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5770.03	Peak	53.29	2.77	56.06	88.20	-32.14
5907.55	Average	44.94	3.07	48.01	68.20	-20.19
6907.68	Peak	80.89	6.35	87.24	-	-
6907.68	Average	72.80	6.35	79.15	-	-
7132.70	Average	45.03	7.50	52.53	68.20	-15.67
7191.96	Peak	53.46	7.46	60.92	88.20	-27.28

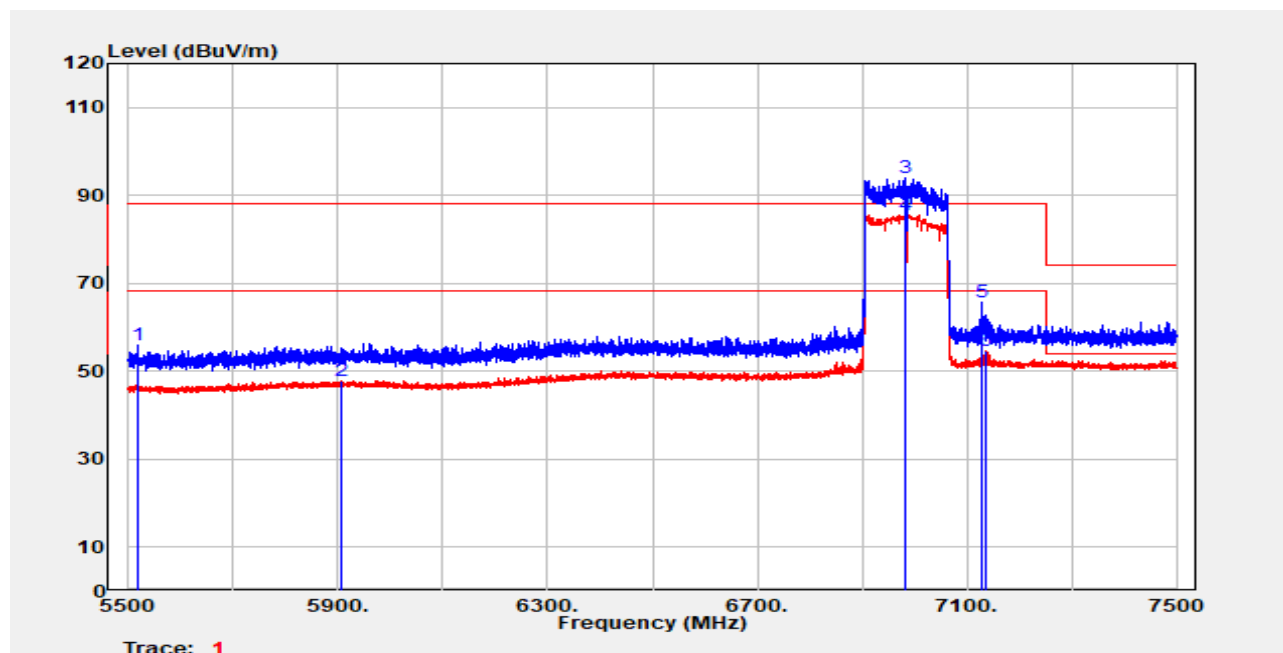
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report Number :TERF2603000806E2
 Operation Mode :802.11ax160 RU Full
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :NB Mode

Test Site :SAC D
 Test Date :2026-03-27
 Temp./Humi. :23.2°C/65%
 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
5517.50	Peak	53.71	2.27	55.98	88.20	-32.22
5906.80	Average	44.71	3.06	47.77	68.20	-20.43
6981.19	Peak	87.28	6.71	93.99	-	-
6981.19	Average	78.86	6.71	85.57	-	-
7127.95	Peak	58.04	7.50	65.54	88.20	-22.66
7137.21	Average	47.28	7.51	54.79	68.20	-13.41

~ End of Report ~

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