

ELECTROMAGNETIC EMISSIONS
COMPLIANCE TEST REPORT

Applicant: Framework Computer Inc
447 Sutter St, PMB 135, San Francisco, CA, 94108-4618,
United States

Product Name: Intel WiFi 6E AX210 Module

Brand Name: Framework

Model No.: AX210NGW

Model Difference: N/A

Report Number: TERF2212002775ER

FCC ID 2AZR6-FRANBBAT12

IC: 27217-FRANBBAT12

Date of EUT Received: December 16, 2022

Date of Test: December 21, 2022 ~ January 03, 2023

Issue Date: January 31, 2023

Approved By

Blue Yang

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, ISSED RSS-248.

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
TERF2212002775ER	00	Original.	January 31, 2023	Susan Lin	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name of Host:	Portable Computer
Brand Name of Host:	Framework
Model No. of Host:	FRANPE0000
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
Model No. of BT/WLAN Module:	AX210NGW
Scope:	AX210NGW INSTALLED IN Notebook Computer
Class II & Class IV Permissive change:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.
EUT Series No.:	00330-80000-00000-AA507
Power Supply:	15.4V DC from rechargeable Li-ion battery or 5.0V=3.0A 15.0W, 9.0V=3.0A 27.0W, 15.0V=3.0A 45.0W, 20.0V=3.0A 60.0W from adapter.
Test Software (Name/Version):	DRTU.02999.22.180.0

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1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM ,1024QAM for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
	802.11 ax_160MHz: up to 2402 Mbps

1.3 Antenna Designation

Antenna Type	Brand	Main / Aux	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PIFA	AWAN	Main	AYF6Y-200005 (DC33002SE00)	5925~6425	0.87
				6425~6525	0.81
				6525~6875	0.92
				6875~7125	0.91
		Aux		5925~6425	2.34
				6425~6525	0.10
				6525~6875	0.08
				6875~7125	0.13

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 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

RSS-248, issue 1 Nov, 2021

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indica- tion where measurements occurred in specific test site and address.				

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 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.

2.4 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.

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2.5 Test Configuration

Radiated Setup



2.6 Control Unit(s)

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	RSS-248 §4.7	Undesirable Radiated Emissions	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz										UNII-6 6425~6525 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	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	97	6435	99	6445	103	6465	111	6505		
5	5975	53	6215	11	6005	23	6065	47	6185	101	6455	107	6485						
9	5995	57	6235	19	6045	39	6145	79	6345	105	6475	115	6525						
13	6015	61	6255	27	6085	55	6225			109	6495								
17	6035	65	6275	35	6125	71	6305			113	6515								
21	6055	69	6295	43	6165	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	6175	93	6415	91	6405														

UNII-7 6525~6875 MHz										UNII-8 6875~7125 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	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	189	6895	187	6885	199	6945	207	6985		
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	215	7025				
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965						
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005						
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045						
137	6635	173	6815	163	6765					209	6995	227	7085						
141	6655	177	6835	171	6805					213	7015								
145	6675	181	6855	179	6845					217	7035								
149	6695	185	6875							221	7055								
										225	7075								
										229	7095								
										233	7115								

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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 gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☒ 802.11 ax	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO

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4. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, heighest and Full RU results higher emissions.
Only one RU can be enabled at any given time.

802.11ax	20MHz				802.11ax	40MHz			
RU type	26-tone RU		52-tone RU		RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-121: -96]	RU37	[-121: -70]	RU index and subcarrier range	RU0	[-243: -218]	RU37	[-243: -192]
	RU1	[-95: -70]	RU38	[-68: -17]		RU1	[-217: -192]	RU38	[-189: -138]
	RU2	[-68: -43]	RU39	[17: 68]		RU2	[-189: -164]	RU39	[-109: -58]
	RU3	[-42: -17]	RU40	[70: 121]		RU3	[-163: -138]	RU40	[-55: -4]
	RU4	[-16: -4, 4: 16]	RU41	N/A		RU4	[-136: -111]	RU41	[4: 55]
	RU5	[17: 42]	RU42	N/A		RU5	[-109: -84]	RU42	[58: 109]
	RU6	[43: 68]	RU43	N/A		RU6	[-83: -58]	RU43	[138: 189]
	RU7	[70: 95]	RU44	N/A		RU7	[-55: -30]	RU44	[192: 243]
	RU8	[96: 121]	RU45	N/A		RU8	[-29: -4]	RU45	N/A
	RU9	N/A	RU46	N/A		RU9	[4: 29]	RU46	N/A
	RU10	N/A	RU47	N/A		RU10	[30: 55]	RU47	N/A
	RU11	N/A	RU48	N/A		RU11	[58: 83]	RU48	N/A
	RU12	N/A	RU49	N/A		RU12	[84: 109]	RU49	N/A
	RU13	N/A	RU50	N/A		RU13	[111: 136]	RU50	N/A
	RU14	N/A	RU51	N/A		RU14	[138: 163]	RU51	N/A
	RU15	N/A	RU52	N/A		RU15	[164: 189]	RU52	N/A
	RU16	N/A				RU16	[192: 217]		
	RU17	N/A	106-tone RU			RU17	[218: 243]	106-tone RU	
	RU18	N/A	RU53	[-122: -17]		RU18	N/A	RU53	[-243: -138]
	RU19	N/A	RU54	[17: 122]		RU19	N/A	RU54	[-109: -4]
	RU20	N/A	RU55	N/A		RU20	N/A	RU55	[4: 109]
	RU21	N/A	RU56	N/A		RU21	N/A	RU56	[138: 243]
	RU22	N/A	RU57	N/A		RU22	N/A	RU57	N/A
	RU23	N/A	RU58	N/A		RU23	N/A	RU58	N/A
	RU24	N/A	RU59	N/A		RU24	N/A	RU59	N/A
	RU25	N/A	RU60	N/A		RU25	N/A	RU60	N/A
	RU26	N/A				RU26	N/A		
	RU27	N/A	242-tone RU			RU27	N/A	242-tone RU	
	RU28	N/A	RU61	[-122: -2, 2: 122]		RU28	N/A	RU61	[-244: -3]
	RU29	N/A	RU62	N/A		RU29	N/A	RU62	[3: 244]
	RU30	N/A	RU63	N/A		RU30	N/A	RU63	N/A
	RU31	N/A	RU64	N/A		RU31	N/A	RU64	N/A
	RU32	N/A				RU32	N/A		
	RU33	N/A				RU33	N/A	484-tone RU	
	RU34	N/A				RU34	N/A	RU65	[-244: -3, 3: 244]
	RU35	N/A				RU35	N/A	RU66	N/A
RU36	N/A			RU36	N/A				

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802.11ax	80MHz			
RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-499: -474]	RU37	[-499: -448]
	RU1	[-473: -448]	RU38	[-445: -394]
	RU2	[-445: -420]	RU39	[-365: -314]
	RU3	[-419: -394]	RU40	[-311: -260]
	RU4	[-392: -367]	RU41	[-257: -206]
	RU5	[-365: -340]	RU42	[-203: -152]
	RU6	[-339: -314]	RU43	[-123: -72]
	RU7	[-311: -286]	RU44	[-69: -18]
	RU8	[-285: -260]	RU45	[18: 69]
	RU9	[-257: -232]	RU46	[72: 123]
	RU10	[-231: -206]	RU47	[152: 203]
	RU11	[-203: -178]	RU48	[206: 257]
	RU12	[-177: -152]	RU49	[260: 311]
	RU13	[-150: -125]	RU50	[314: 365]
	RU14	[-123: -98]	RU51	[394: 445]
	RU15	[-97: -72]	RU52	[448: 499]
	RU16	[-69: -44]	106-tone RU	
	RU17	[-43: -18]	RU53	[-499: -394]
	RU18	[-16: -4, 4: 16]	RU54	[-365: -260]
	RU19	[18: 43]	RU55	[-257: -152]
	RU20	[44: 69]	RU56	[-123: -18]
	RU21	[72: 97]	RU57	[18: 123]
	RU22	[98: 123]	RU58	[152: 257]
	RU23	[125: 150]	RU59	[260: 365]
	RU24	[152: 177]	RU60	[394: 499]
	RU25	[178: 203]	242-tone RU	
	RU26	[206: 231]	RU61	[-500: -259]
	RU27	[232: 257]	RU62	[-258: -17]
	RU28	[260: 285]	RU63	[17: 258]
	RU29	[286: 311]	RU64	[259: 500]
	RU30	[314: 339]	484-tone RU	
	RU31	[340: 365]	RU65	[-500: -17]
	RU32	[367: 392]	RU66	[17: 500]
	RU33	[394: 419]	996-tone RU	
	RU34	[420: 445]	RU67	[-500: -3, 3: 500]
	RU35	[448: 473]		
	RU36	[474: 499]		

5. 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.

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RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	45	OFDM	MCS0	2Tx
	6435~6515	97 to 113	105			
	6535~6875	117 to 185	149			
	6895~7115	189 to 233	229			

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGUR	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	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				
	6995~7115	209 to 233	209,229,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	2Tx
	6445~6525	99 to 115	99,107,115				
	6685~6845	147 to 179	147,179				
	6885~7085	187 to 227	187,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	2Tx
	6465	103	103				
	6545~6865	119 to 183	119,135,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,79	OFDMA	FULL RU 484/65,484/66	MCS0	2Tx
	6505	111	111				
	6665	143	143				
	6985	207	207				

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

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz

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 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2022	09/26/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Site Cal	SGS	SAC 1	N/A	01/01/2022	12/31/2022
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	HP	8449B	3008A01973	12/13/2022	12/12/2023
Pre-Amplifier	HP	8447D	2944A09469	12/13/2022	12/12/2023
7GHz High Pass Filter	WI	WHKX10-6090-80SS	4	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/13/2022	12/12/2023

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7 UNDESIRABLE RADIATED EMISSIONS

7.1 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 and RSS-Gen §8.9 Table 5 and 6.

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)

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.77.$$

$$E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.77$$

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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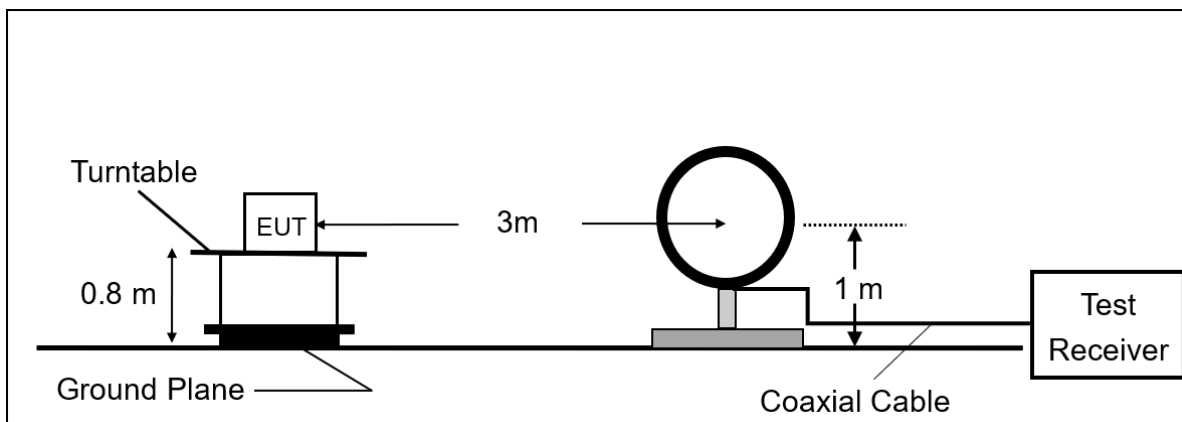
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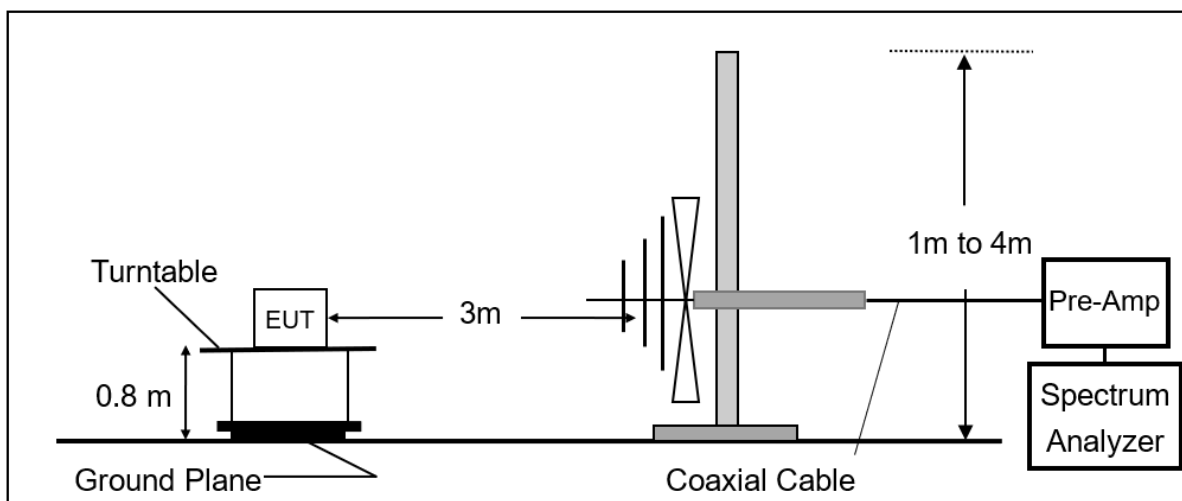
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7.2 Test Setup

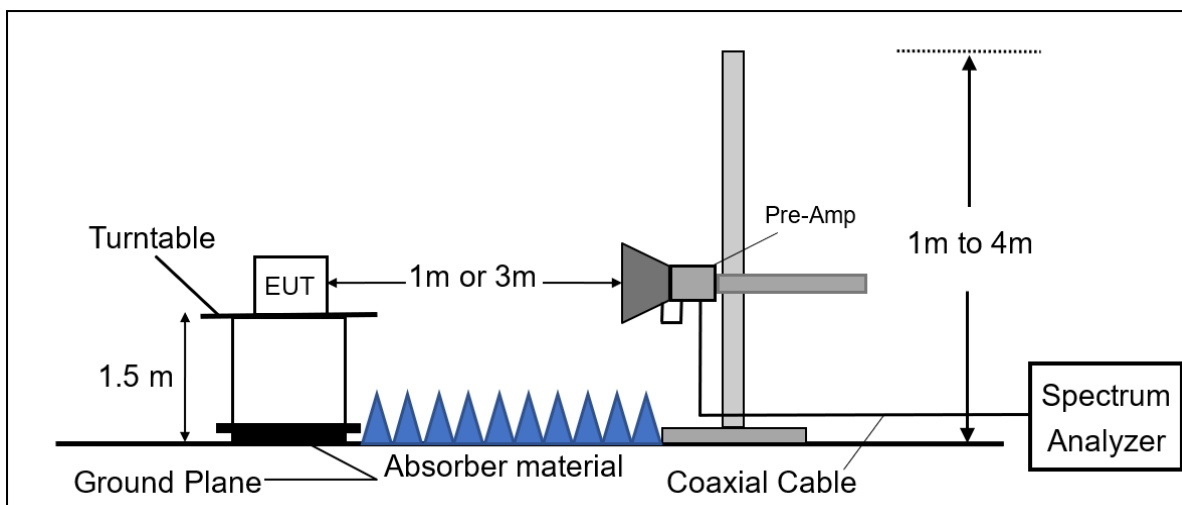
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.3 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.

7.4 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(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

7.5 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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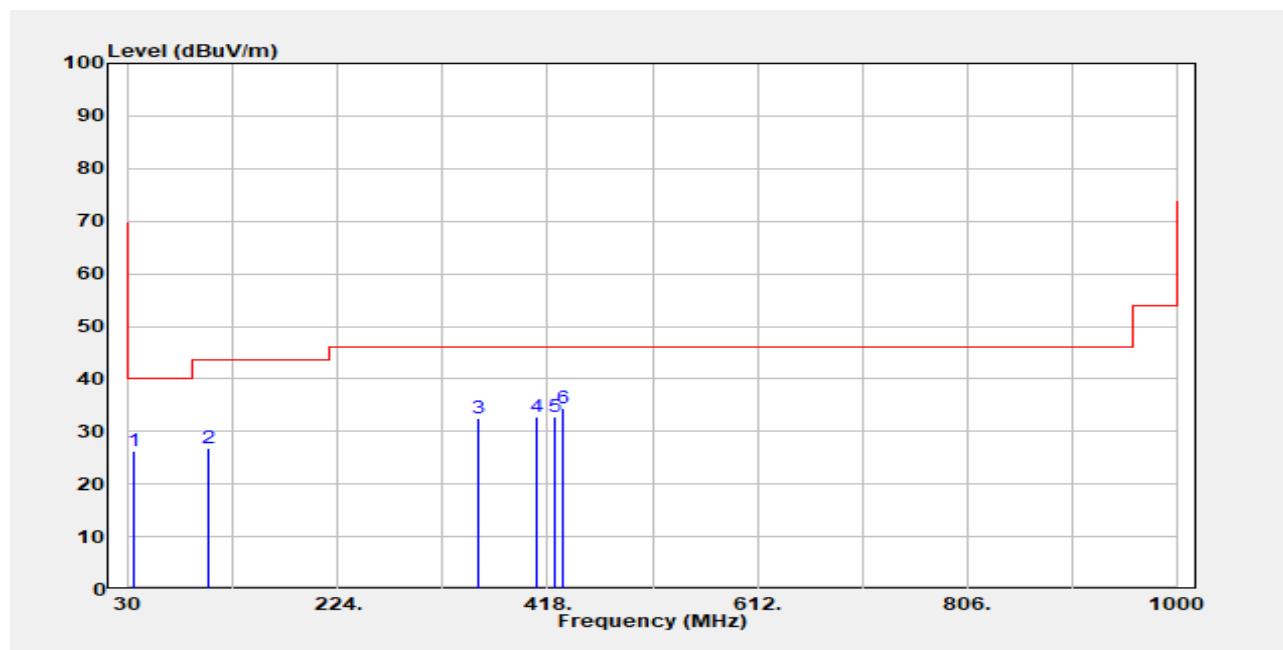
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7.6 Radiated Spurious Emission Measurement Result

7.6.1 Spurious Emission

Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



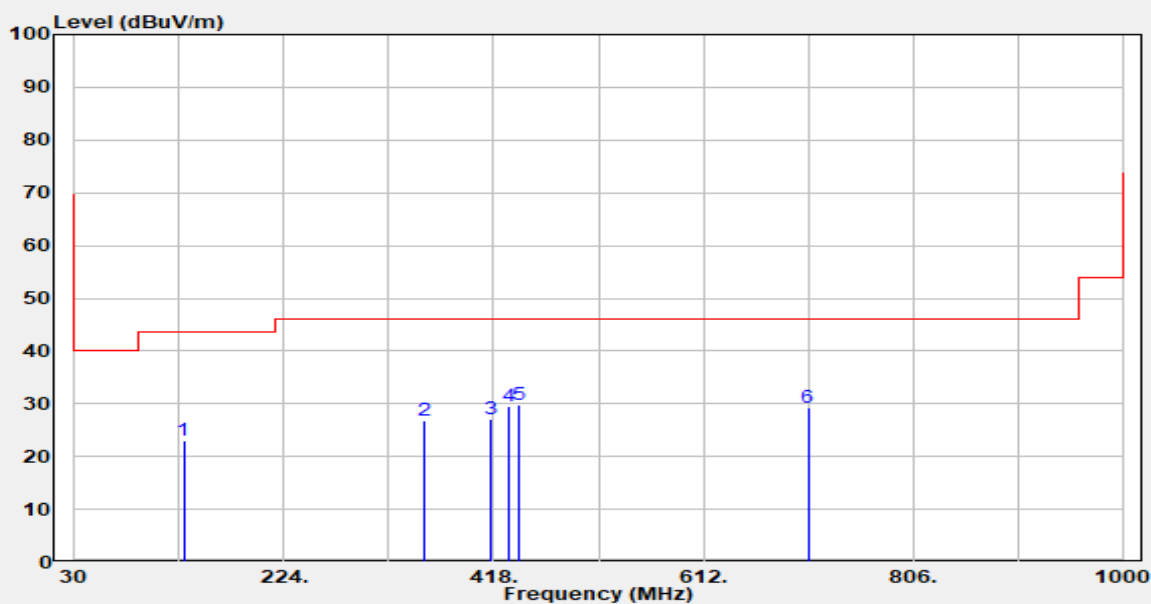
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
34.85	Peak	34.12	-7.87	26.25	40.00	-13.75
103.72	Peak	39.57	-12.80	26.77	43.50	-16.73
353.98	Peak	40.66	-8.03	32.63	46.00	-13.37
407.33	Peak	38.99	-6.33	32.66	46.00	-13.34
424.79	Peak	39.45	-6.69	32.76	46.00	-13.24
432.55	Peak	40.99	-6.48	34.51	46.00	-11.49

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
130.88	Peak	34.93	-11.79	23.14	43.50	-20.36
353.98	Peak	34.98	-8.03	26.95	46.00	-19.05
416.06	Peak	33.52	-6.34	27.18	46.00	-18.82
432.55	Peak	35.98	-6.48	29.51	46.00	-16.49
441.28	Peak	36.10	-6.40	29.70	46.00	-16.30
709.00	Peak	32.10	-2.83	29.28	46.00	-16.72

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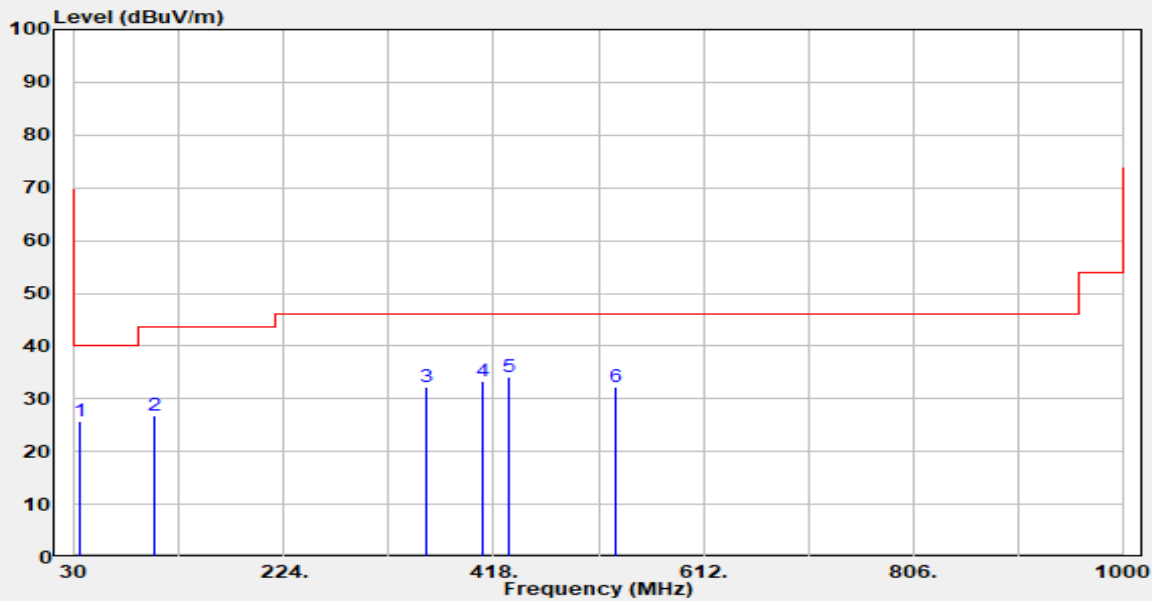
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
34.85	Peak	33.57	-7.87	25.70	40.00	-14.30
103.72	Peak	39.53	-12.80	26.73	43.50	-16.77
354.95	Peak	40.40	-8.05	32.36	46.00	-13.64
407.33	Peak	39.56	-6.33	33.23	46.00	-12.77
432.55	Peak	40.60	-6.48	34.12	46.00	-11.88
531.49	Peak	37.43	-5.25	32.19	46.00	-13.81

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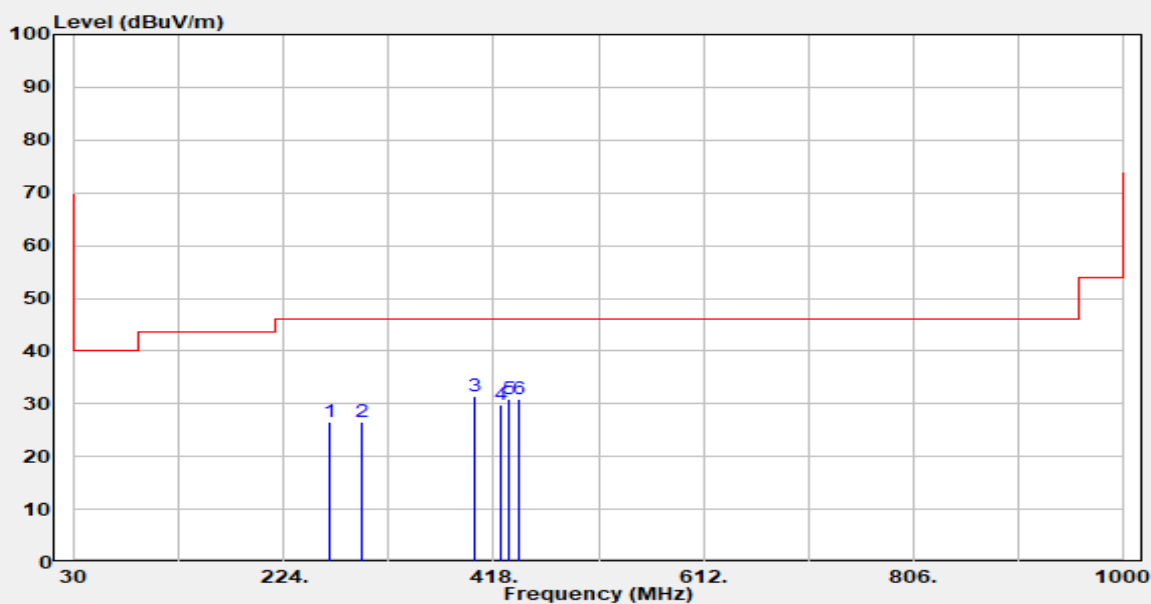
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
266.68	Peak	35.96	-9.26	26.69	46.00	-19.31
295.78	Peak	35.75	-9.15	26.60	46.00	-19.40
399.57	Peak	38.21	-6.91	31.30	46.00	-14.70
423.82	Peak	36.38	-6.59	29.79	46.00	-16.21
432.55	Peak	37.42	-6.48	30.95	46.00	-15.05
441.28	Peak	37.24	-6.40	30.84	46.00	-15.16

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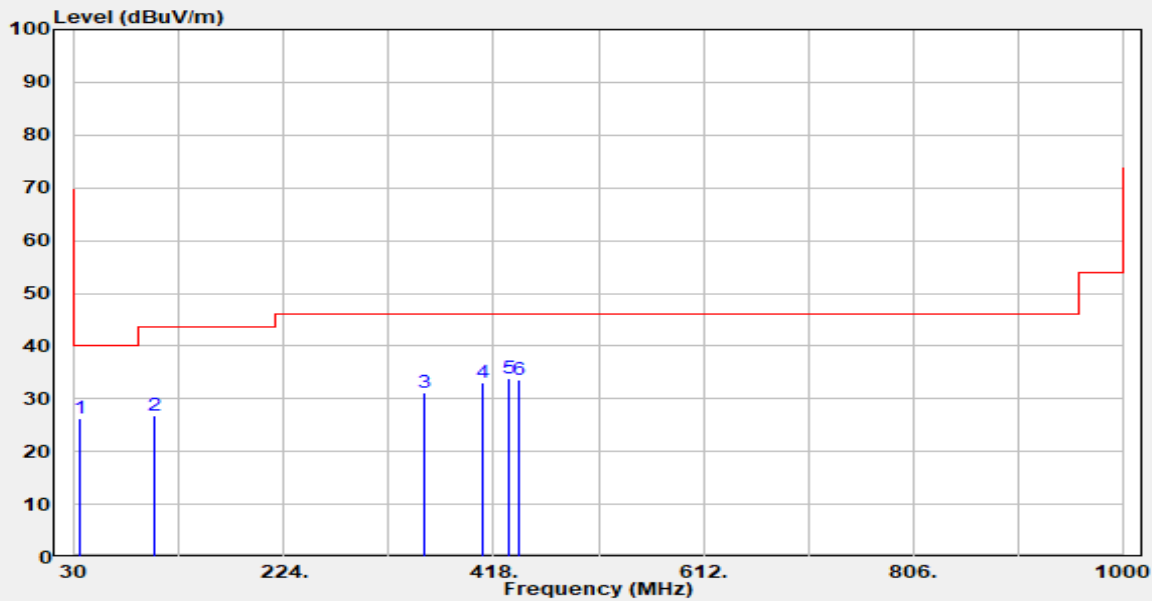
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



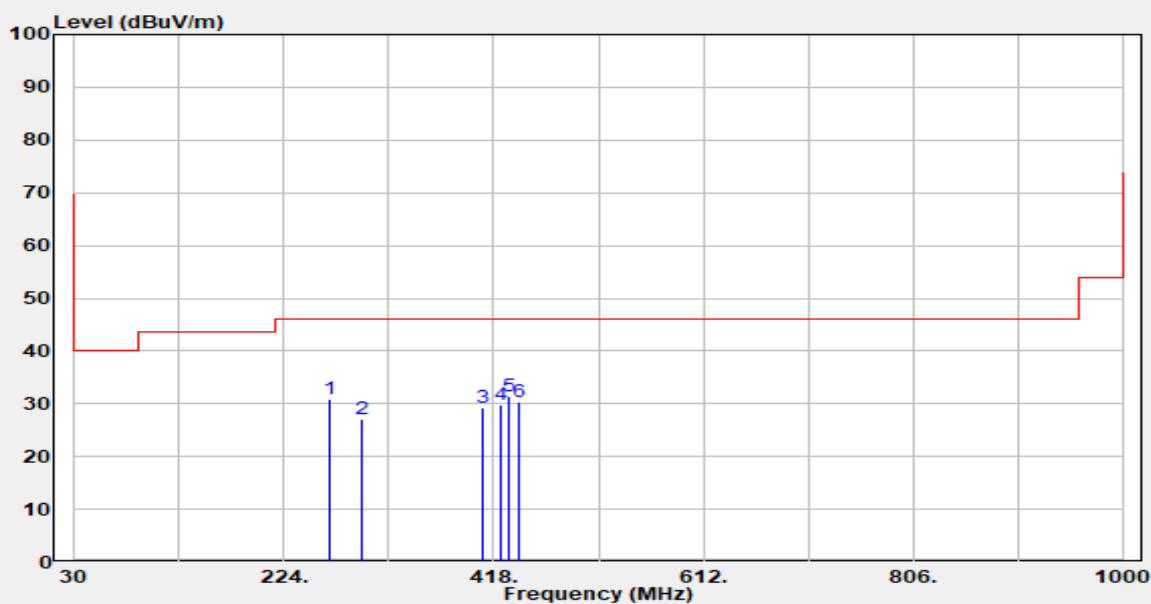
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
34.85	Peak	34.10	-7.87	26.23	40.00	-13.77
104.69	Peak	39.39	-12.67	26.72	43.50	-16.78
353.98	Peak	39.29	-8.03	31.26	46.00	-14.74
407.33	Peak	39.37	-6.33	33.04	46.00	-12.96
432.55	Peak	40.36	-6.48	33.88	46.00	-12.12
441.28	Peak	39.93	-6.40	33.53	46.00	-12.47

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



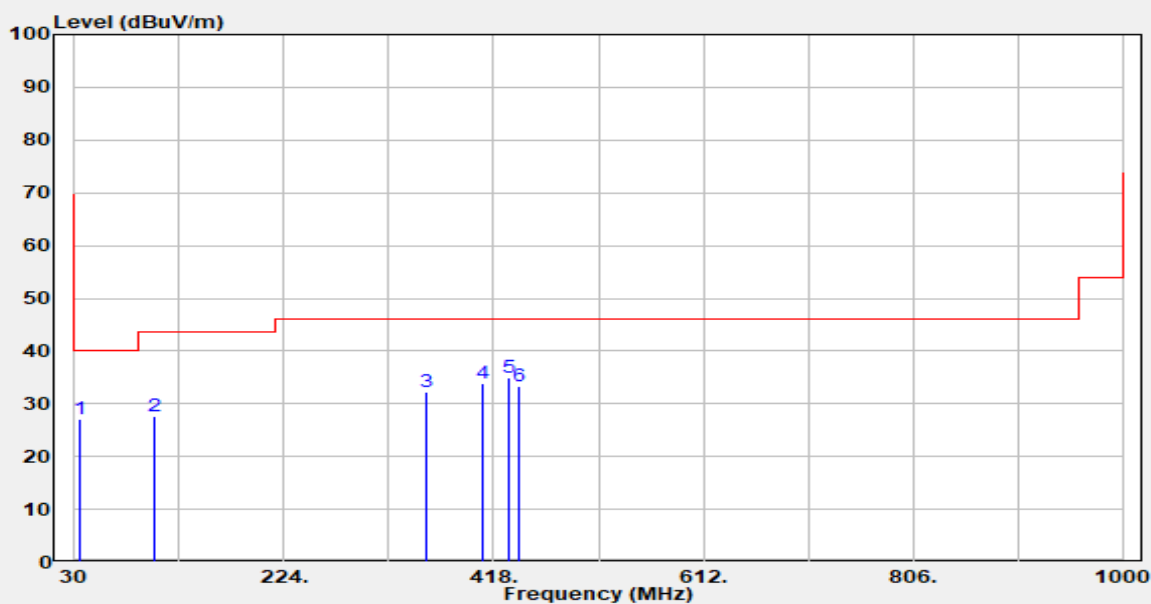
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
265.71	Peak	39.98	-9.11	30.88	46.00	-15.12
295.78	Peak	36.38	-9.15	27.23	46.00	-18.77
407.33	Peak	35.70	-6.33	29.36	46.00	-16.64
423.82	Peak	36.33	-6.59	29.74	46.00	-16.26
432.55	Peak	37.87	-6.48	31.39	46.00	-14.61
441.28	Peak	36.81	-6.40	30.41	46.00	-15.59

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :7095 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
34.85	Peak	34.98	-7.87	27.11	40.00	-12.89
104.69	Peak	40.27	-12.67	27.60	43.50	-15.90
354.95	Peak	40.22	-8.05	32.18	46.00	-13.82
407.33	Peak	40.16	-6.33	33.82	46.00	-12.18
432.55	Peak	41.38	-6.48	34.90	46.00	-11.10
441.28	Peak	39.86	-6.40	33.46	46.00	-12.54

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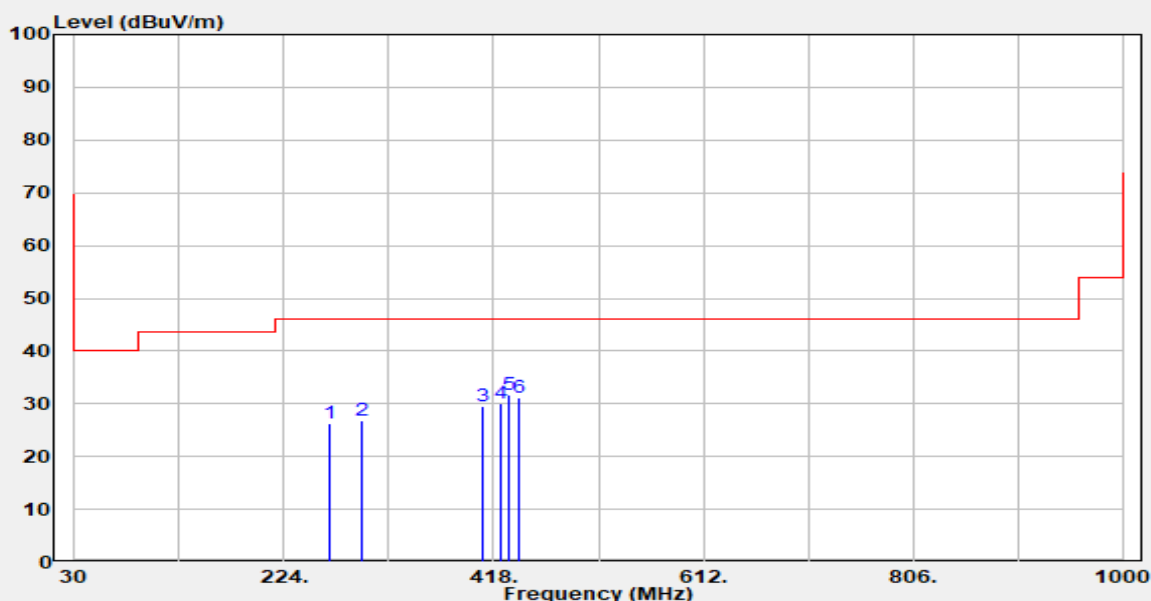
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :7095 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :HORIZONTAL
 Engineer :GN Lin



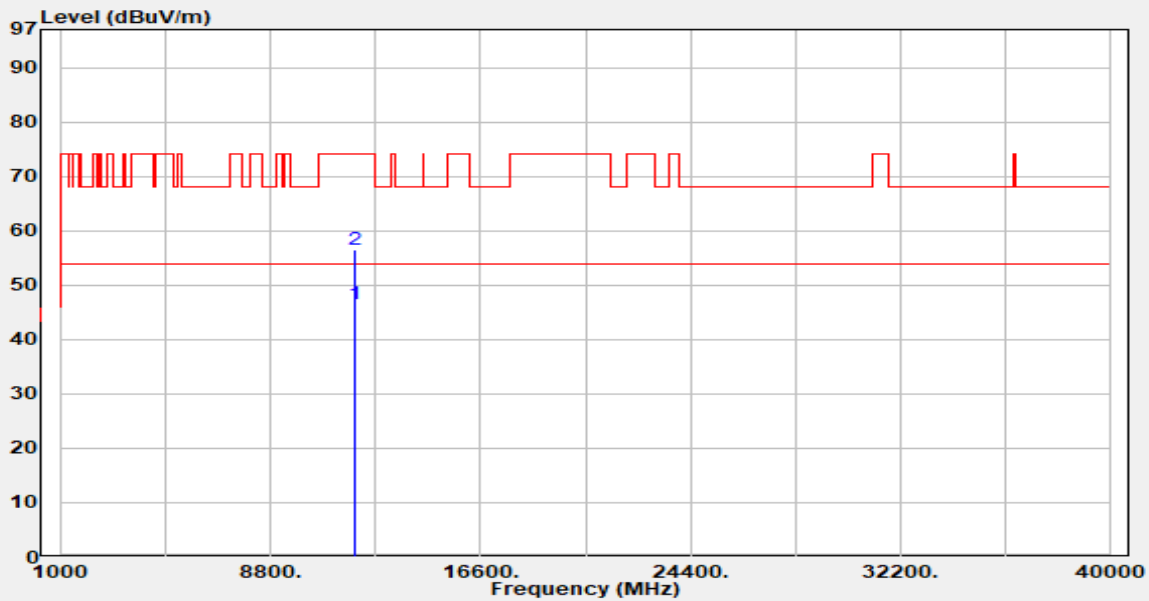
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
266.68	Peak	35.68	-9.26	26.41	46.00	-19.59
295.78	Peak	36.08	-9.15	26.93	46.00	-19.07
407.33	Peak	35.92	-6.33	29.59	46.00	-16.41
424.79	Peak	36.90	-6.69	30.21	46.00	-15.79
432.55	Peak	38.31	-6.48	31.83	46.00	-14.17
441.28	Peak	37.67	-6.40	31.27	46.00	-14.73

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



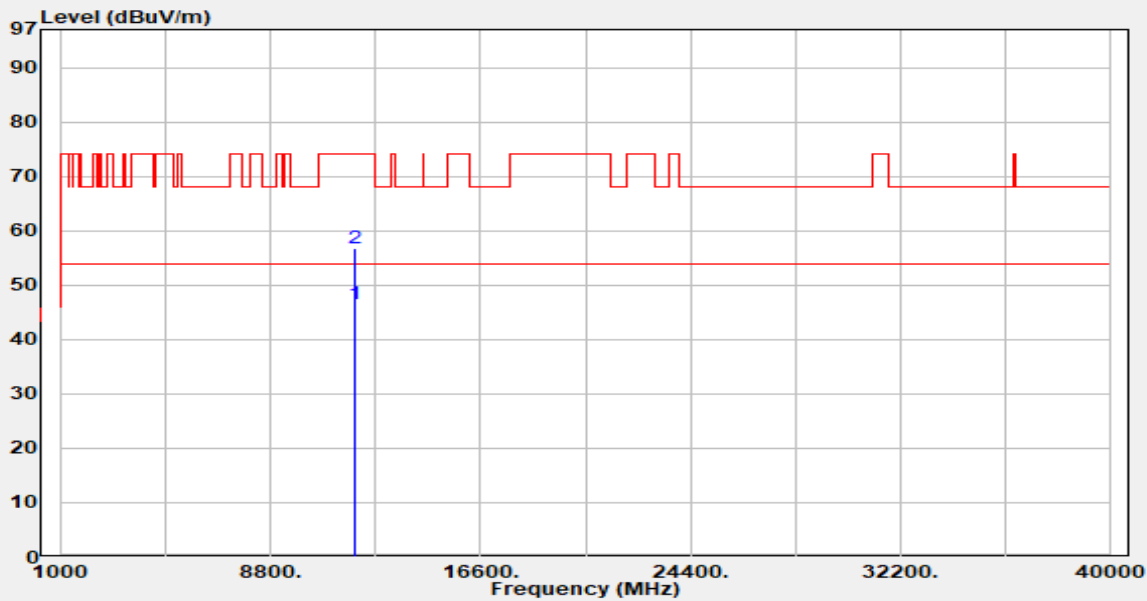
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11910.00	Average	25.34	21.17	46.51	54.00	-7.49
11910.00	Peak	35.23	21.17	56.40	74.00	-17.60

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :5955 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



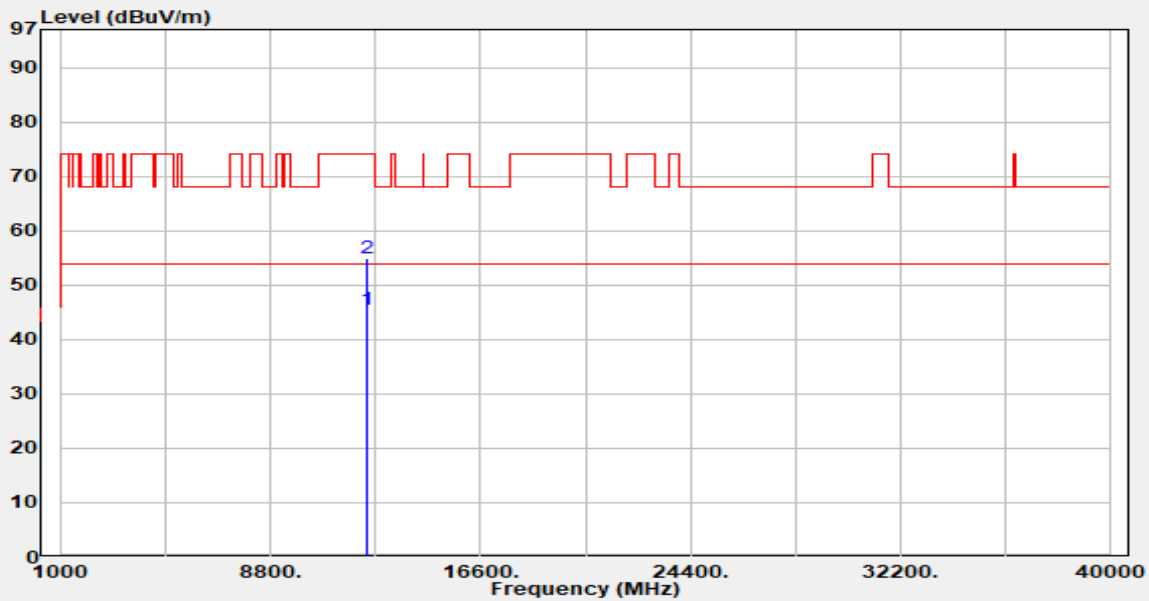
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11910.00	Average	25.30	21.17	46.47	54.00	-7.53
11910.00	Peak	35.71	21.17	56.89	74.00	-17.11

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6175 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



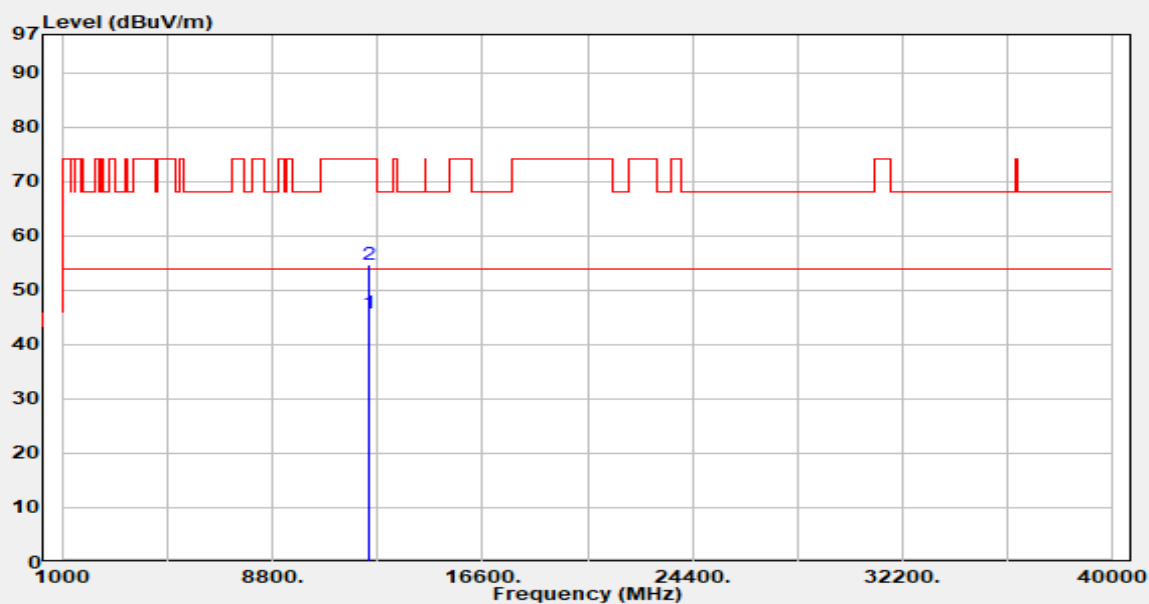
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12350.00	Average	24.55	21.04	45.59	54.00	-8.41
12350.00	Peak	34.01	21.04	55.05	74.00	-18.95

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6175 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



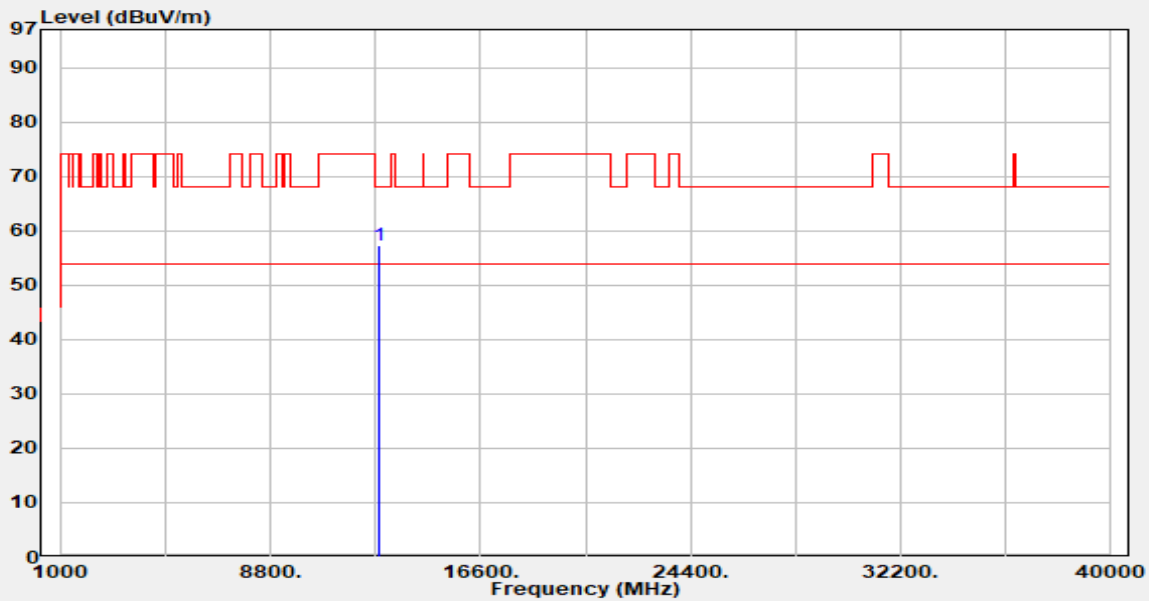
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12350.00	Average	24.62	21.04	45.66	54.00	-8.34
12350.00	Peak	33.62	21.04	54.66	74.00	-19.34

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6415 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



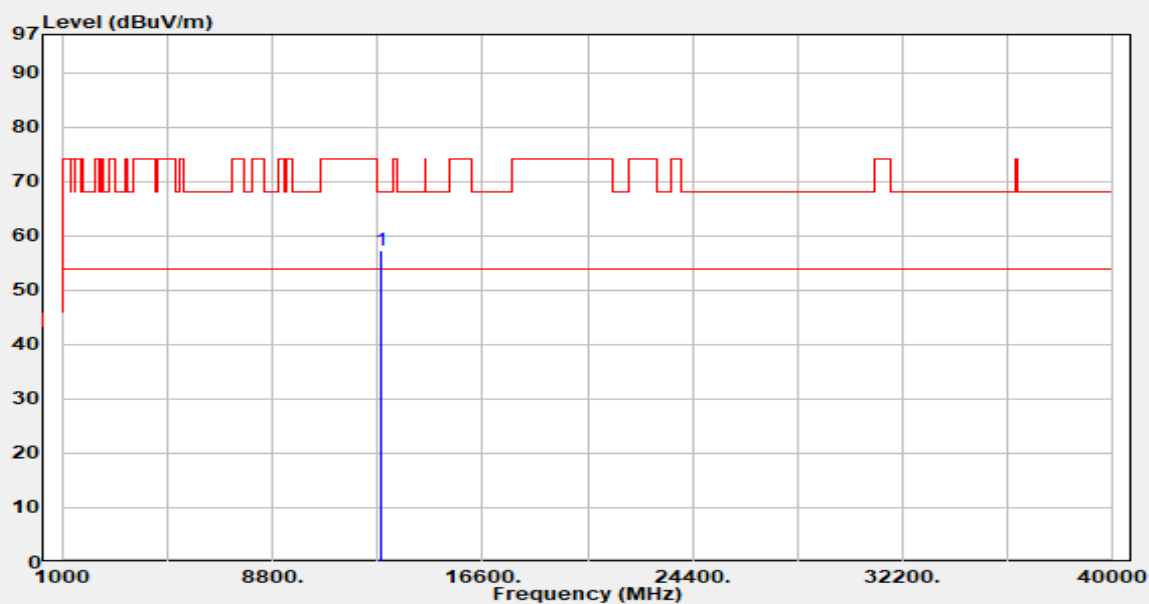
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12830.00	Peak	34.90	22.35	57.24	68.20	-10.96

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6415 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12830.00	Peak	34.84	22.35	57.19	68.20	-11.01

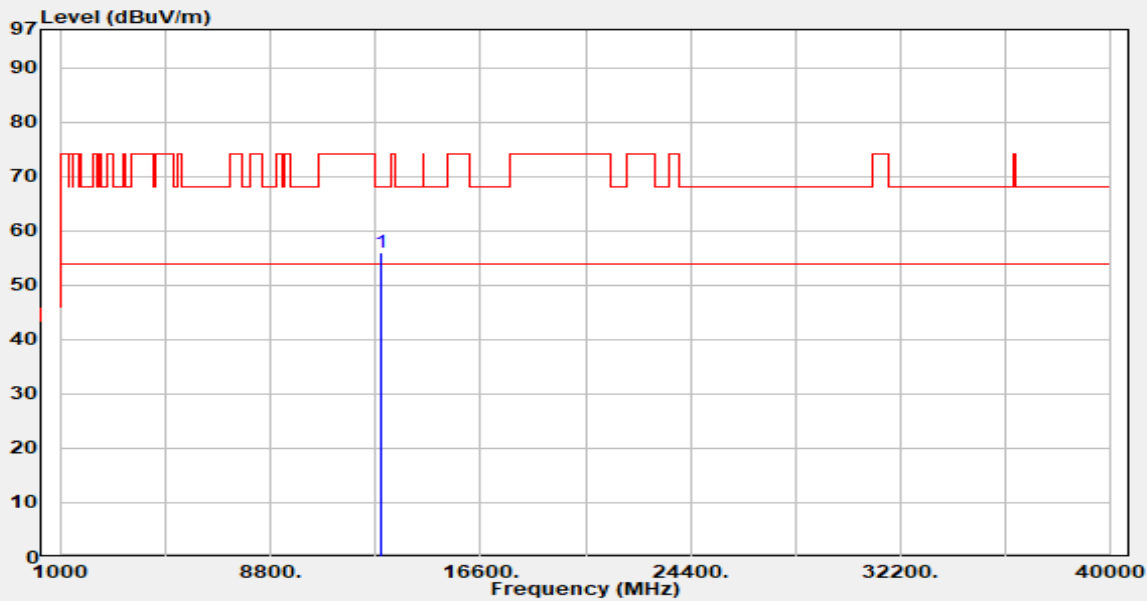
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6435 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12870.00	Peak	33.75	22.35	56.10	68.20	-12.10

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

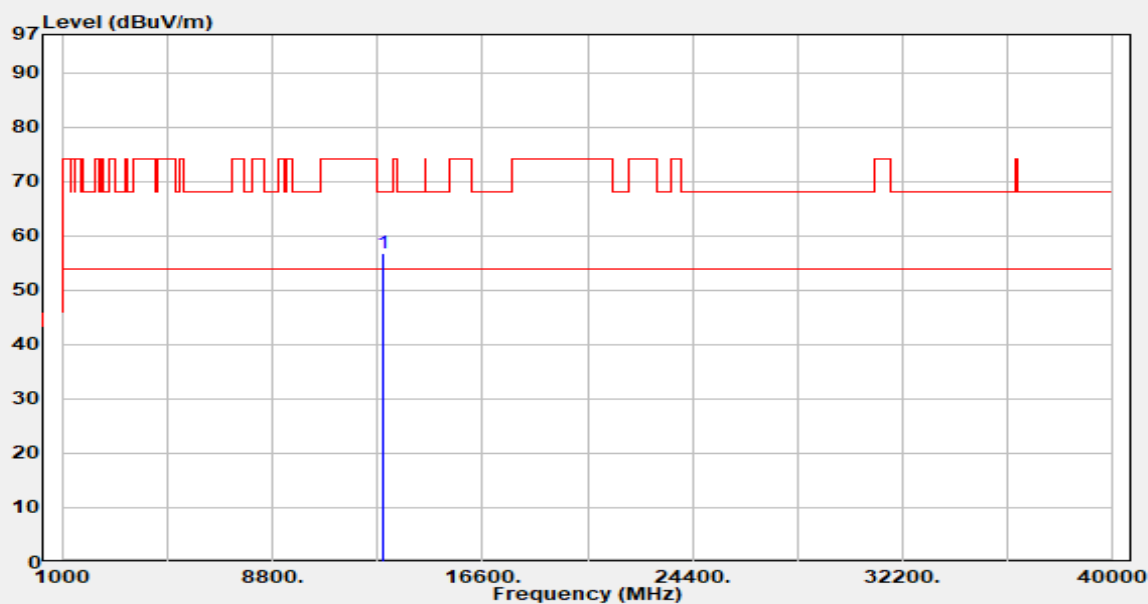
f (886-2) 2298-0488

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6435 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12870.00	Peak	34.43	22.35	56.79	68.20	-11.41

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t (886-2) 2299-3279

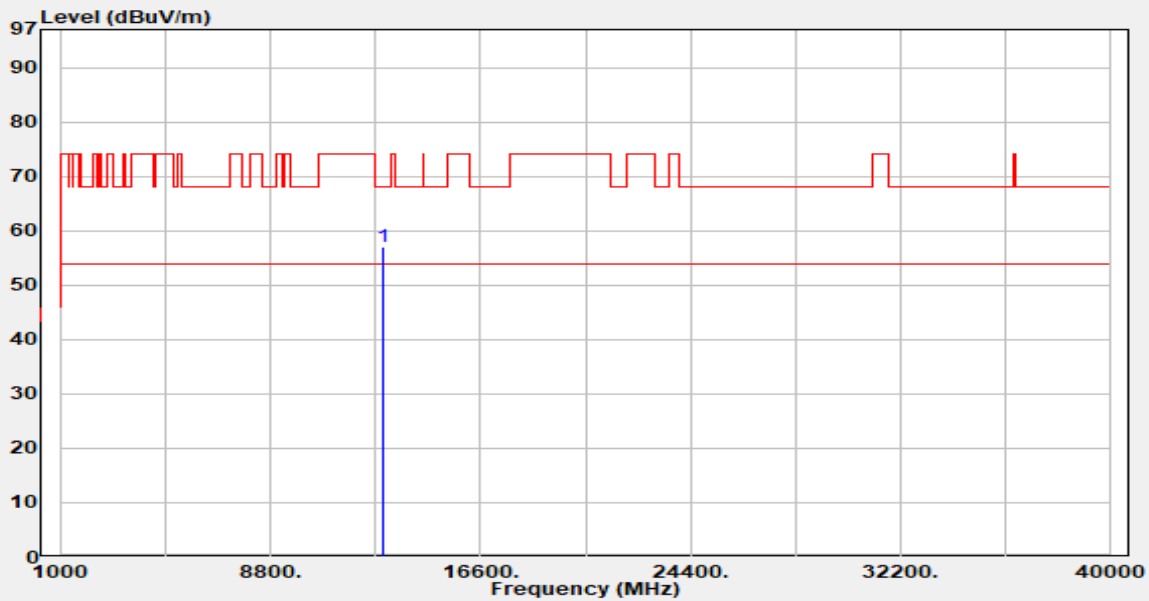
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Member of SGS Group

Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6475 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12950.00	Peak	33.95	23.17	57.12	68.20	-11.08

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

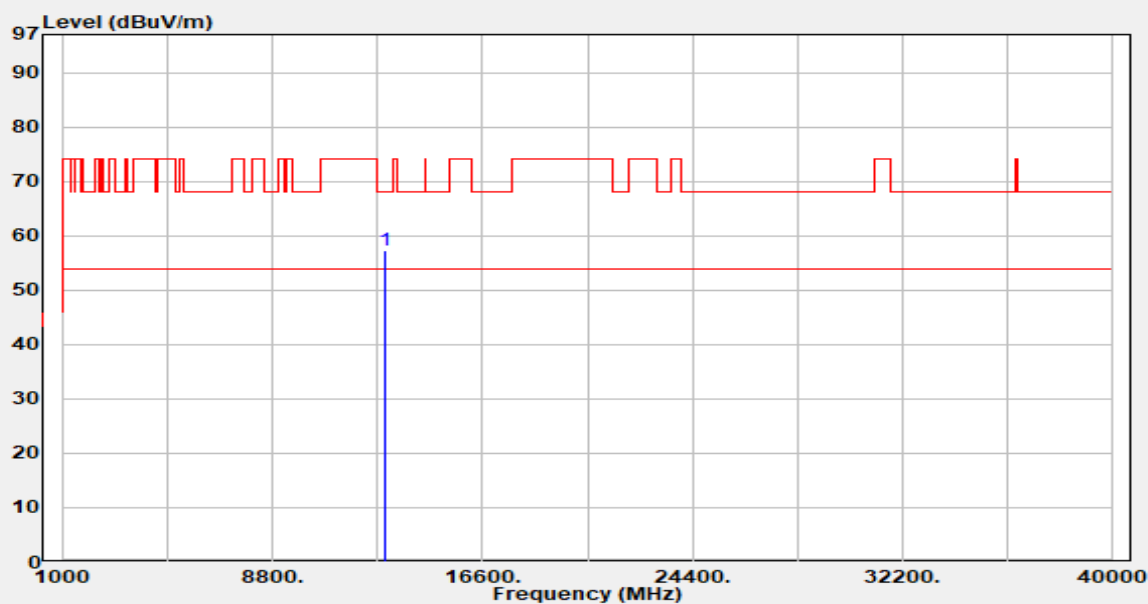
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6475 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



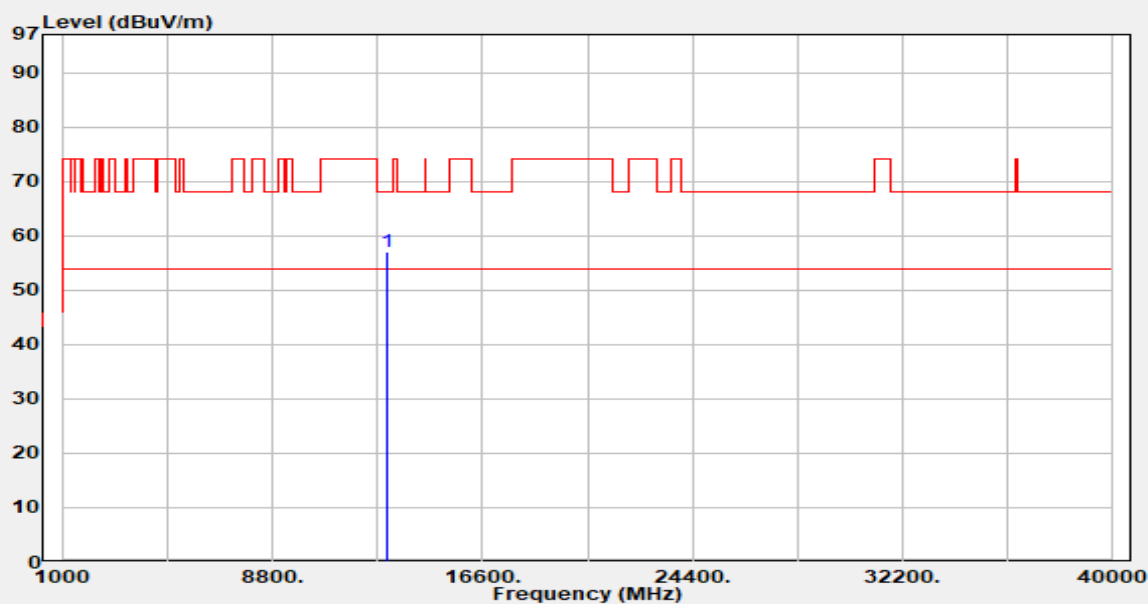
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12950.00	Peak	34.04	23.17	57.21	68.20	-10.99

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6515 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13030.00	Peak	34.84	22.21	57.05	68.20	-11.15

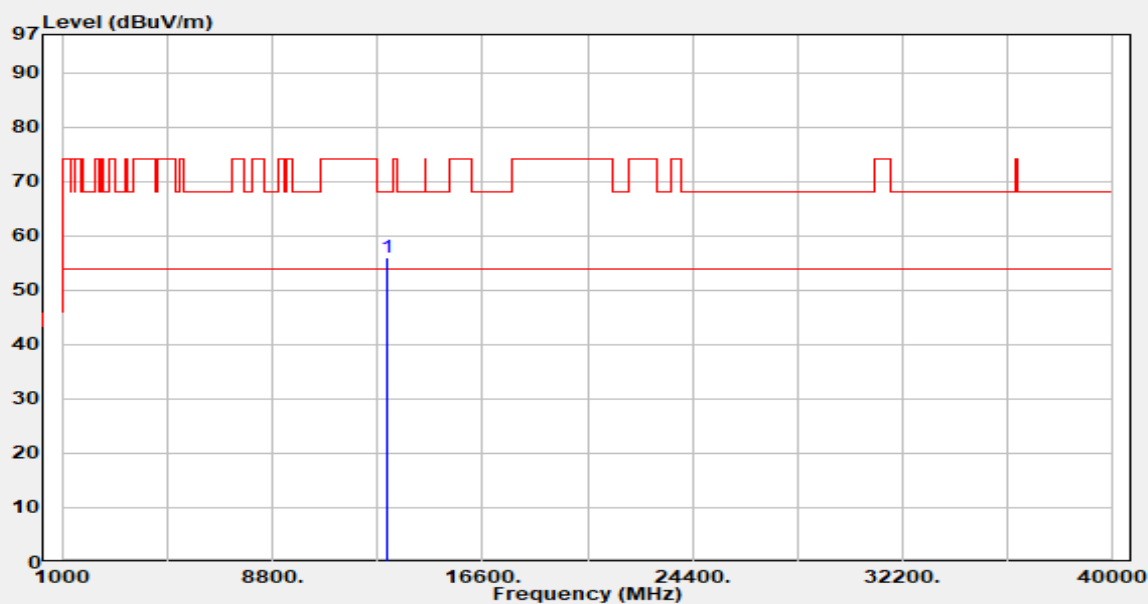
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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6515 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



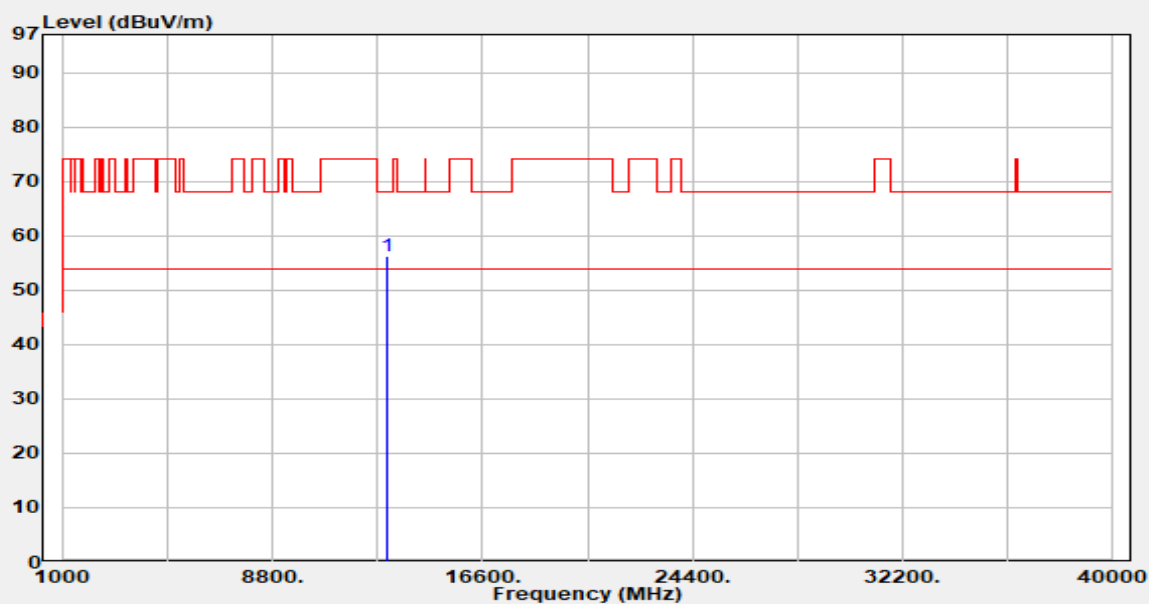
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13030.00	Peak	33.85	22.21	56.06	68.20	-12.14

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6535 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



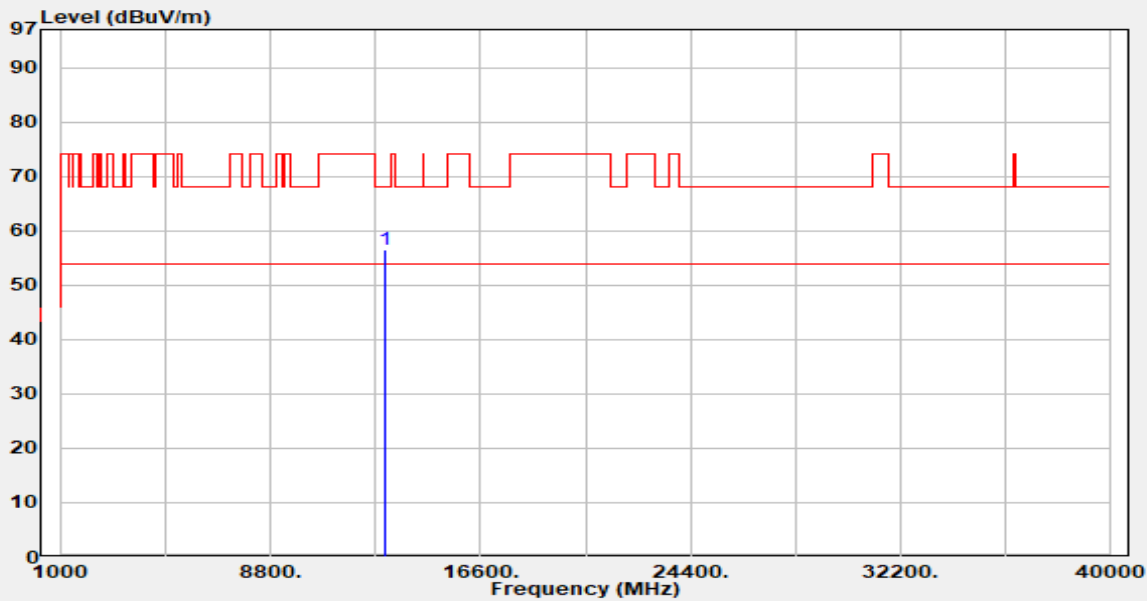
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13070.00	Peak	33.70	22.64	56.34	68.20	-11.86

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6535 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



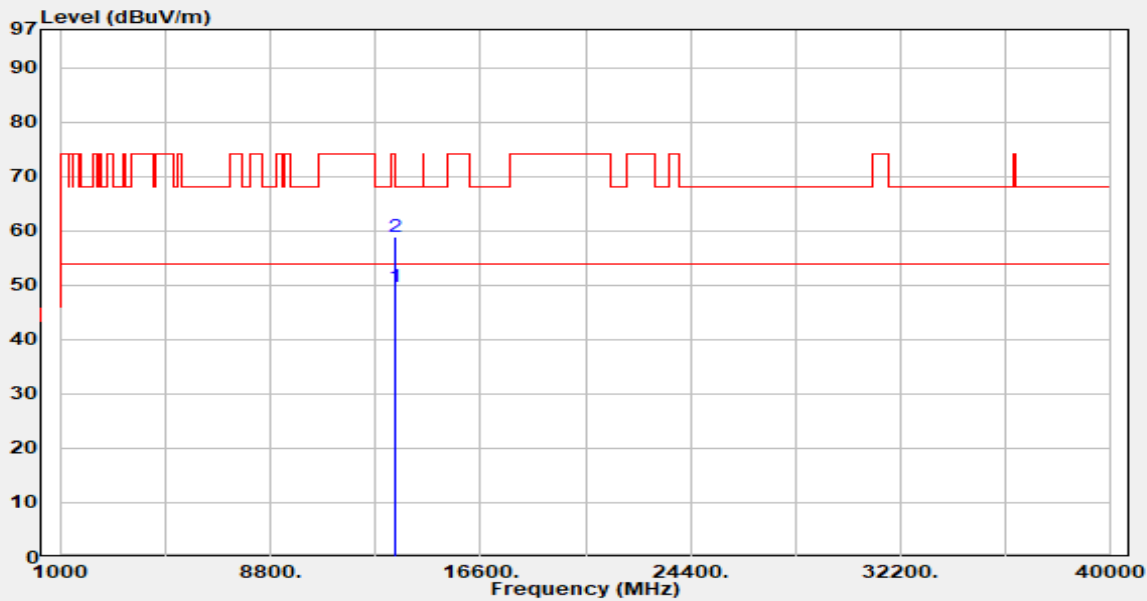
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13070.00	Peak	33.95	22.64	56.59	68.20	-11.61

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



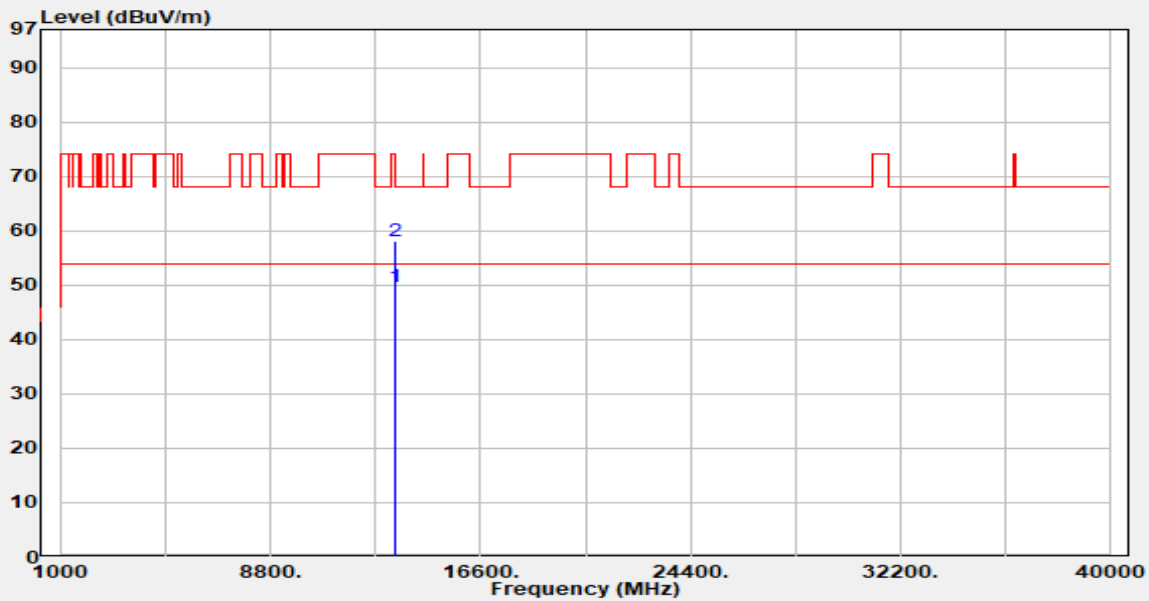
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13390.00	Average	25.61	24.06	49.67	54.00	-4.33
13390.00	Peak	34.91	24.06	58.97	74.00	-15.03

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax20
 Test Frequency :6695 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



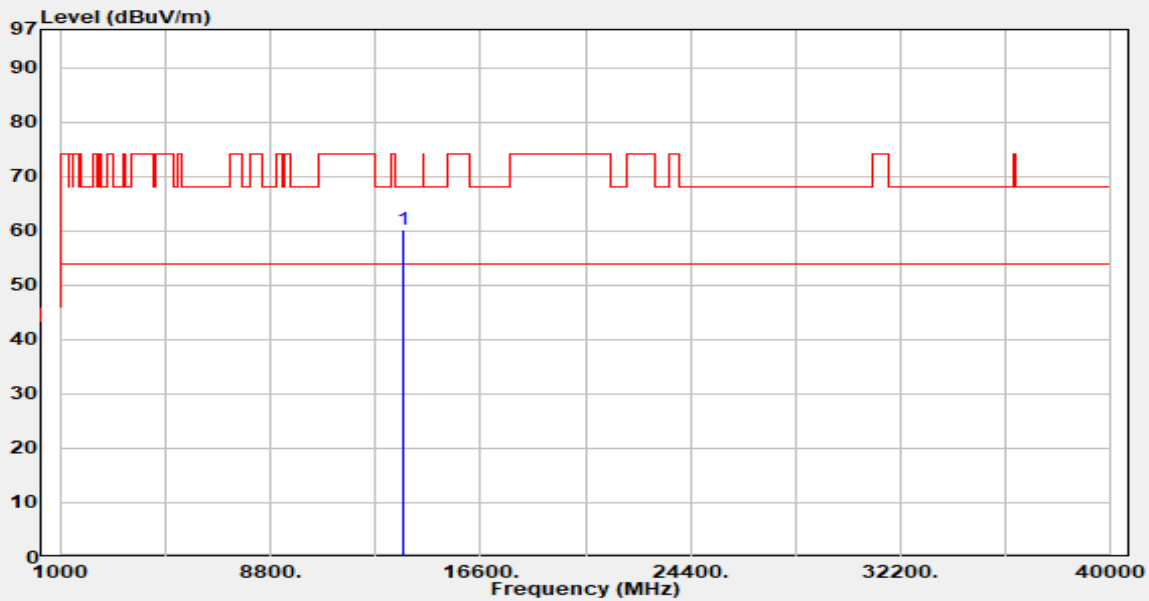
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13390.00	Average	25.57	24.06	49.63	54.00	-4.37
13390.00	Peak	34.07	24.06	58.13	74.00	-15.87

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6855 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



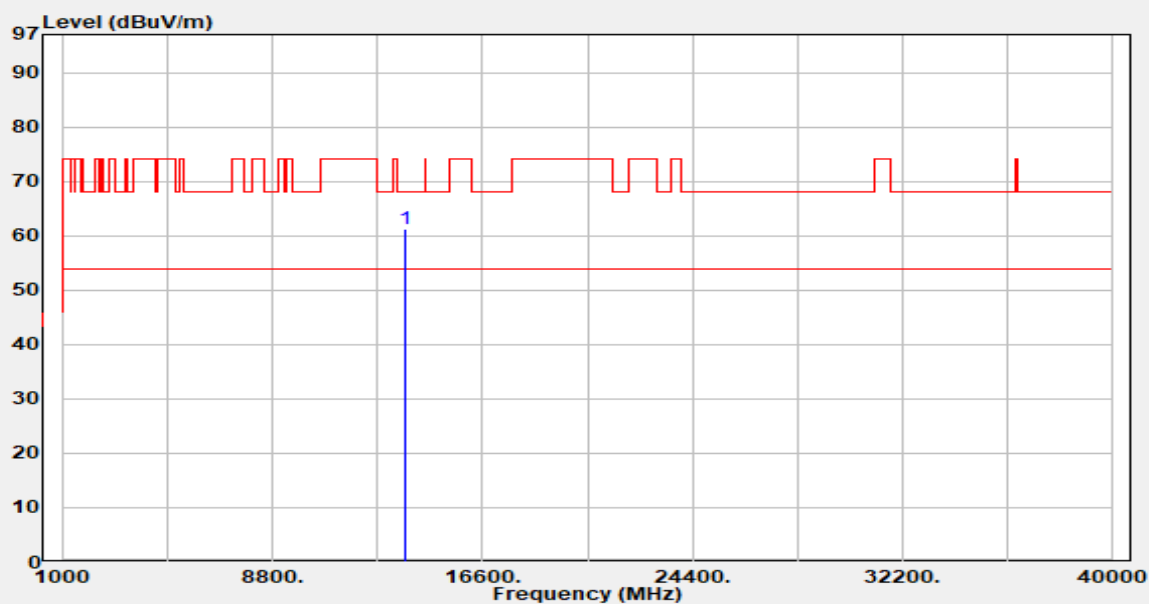
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13710.00	Peak	35.36	24.84	60.20	68.20	-8.00

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6855 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13710.00	Peak	36.32	24.84	61.16	68.20	-7.04

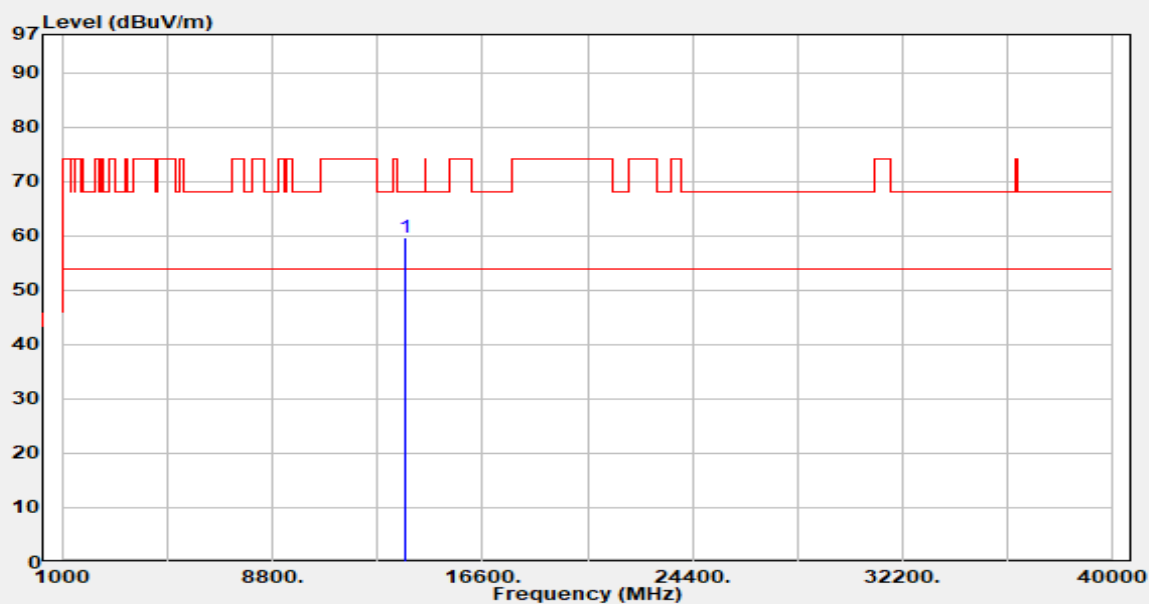
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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6875 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13750.00	Peak	35.08	24.67	59.75	68.20	-8.45

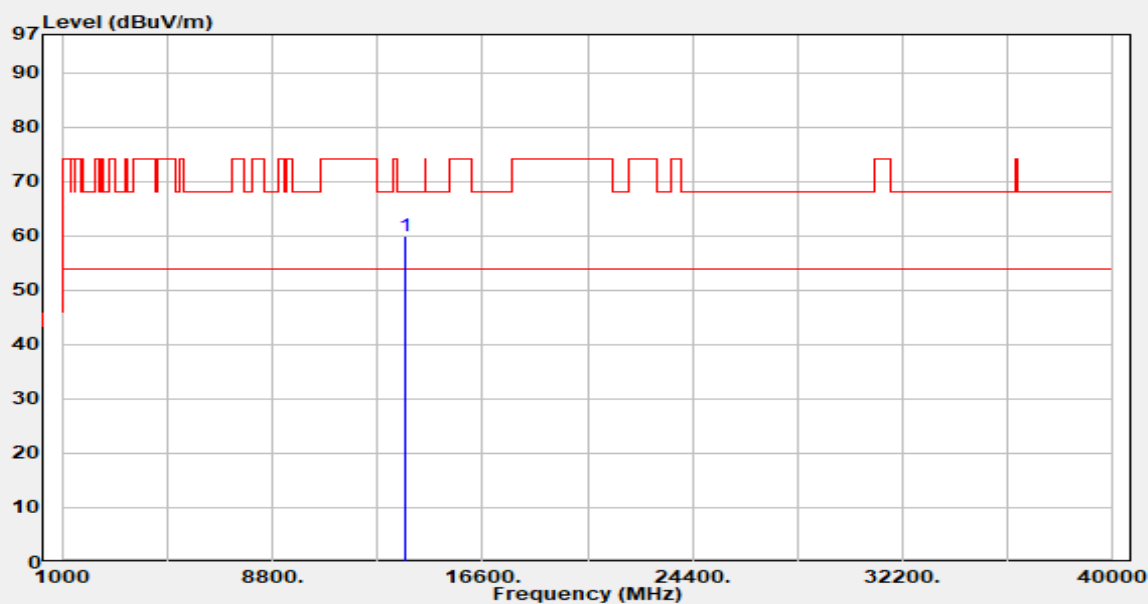
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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6875 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



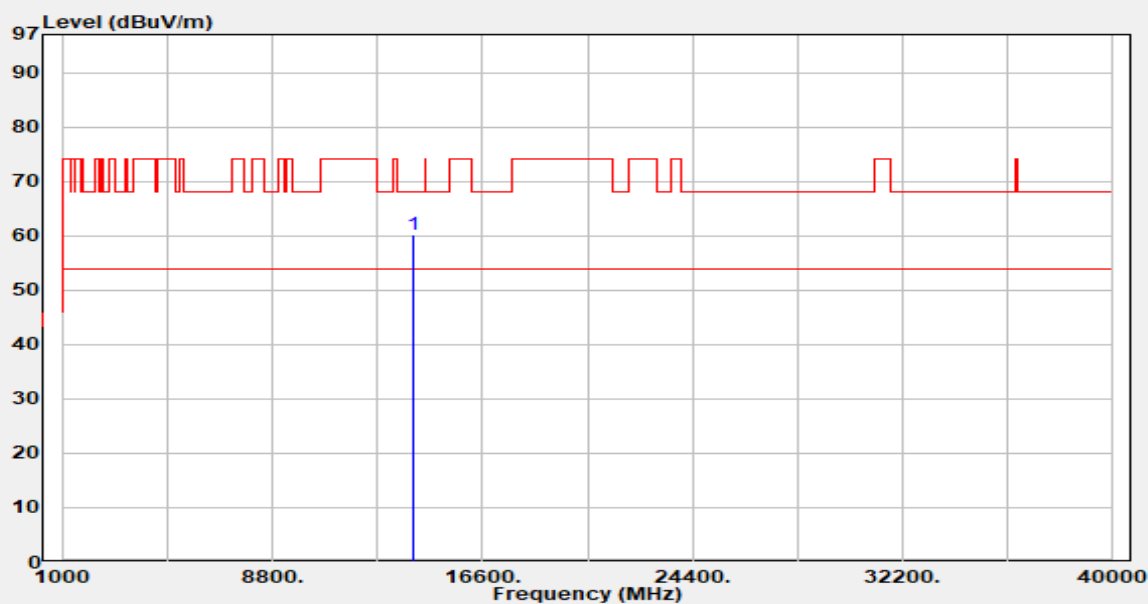
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13750.00	Peak	35.34	24.67	60.01	68.20	-8.19

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6995 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13990.00	Peak	35.03	25.22	60.25	68.20	-7.95

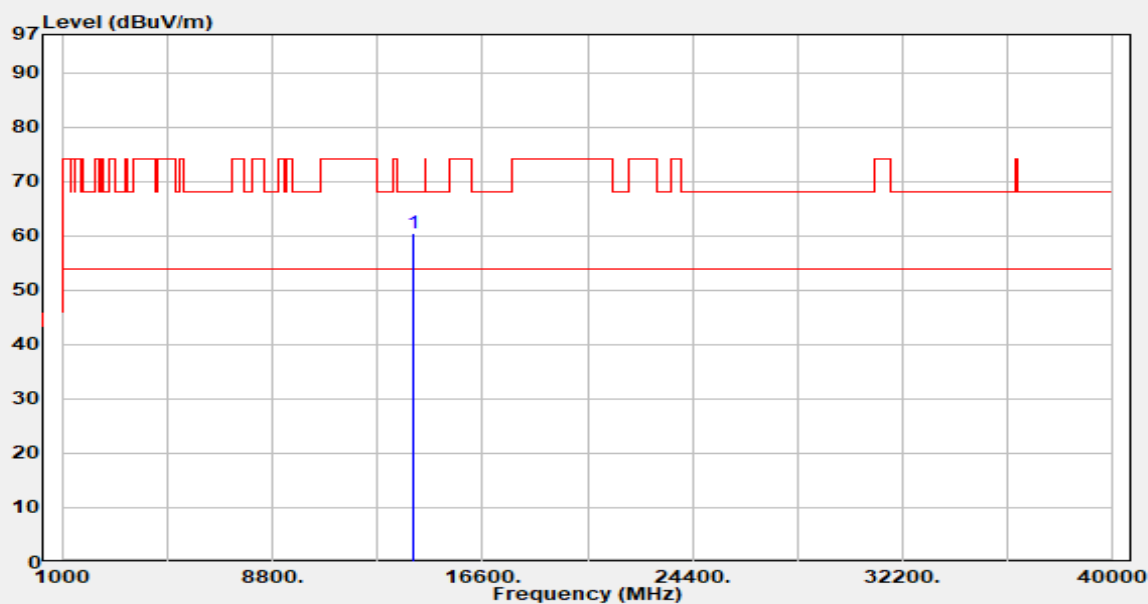
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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :6995 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



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	35.31	25.22	60.53	68.20	-7.67

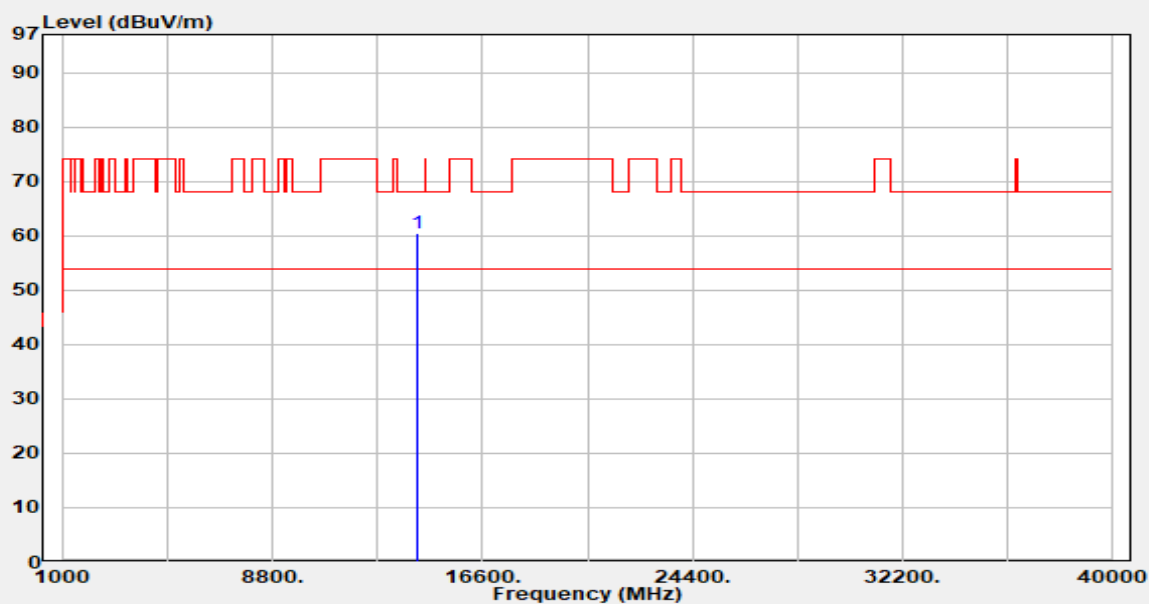
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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :7095 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



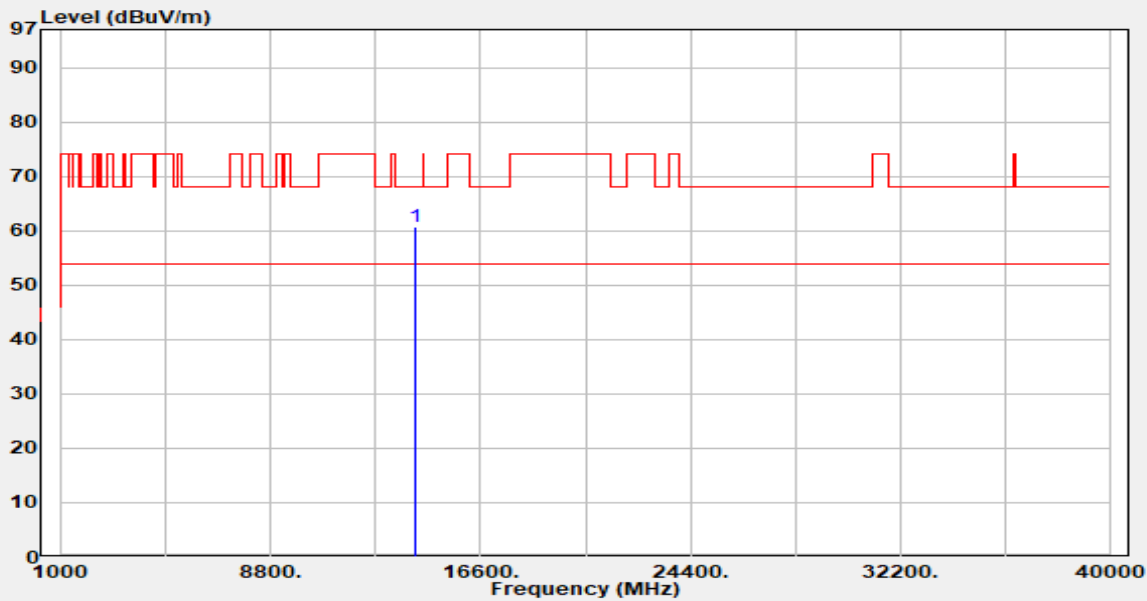
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14190.00	Peak	35.19	25.36	60.55	68.20	-7.65

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :7095 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



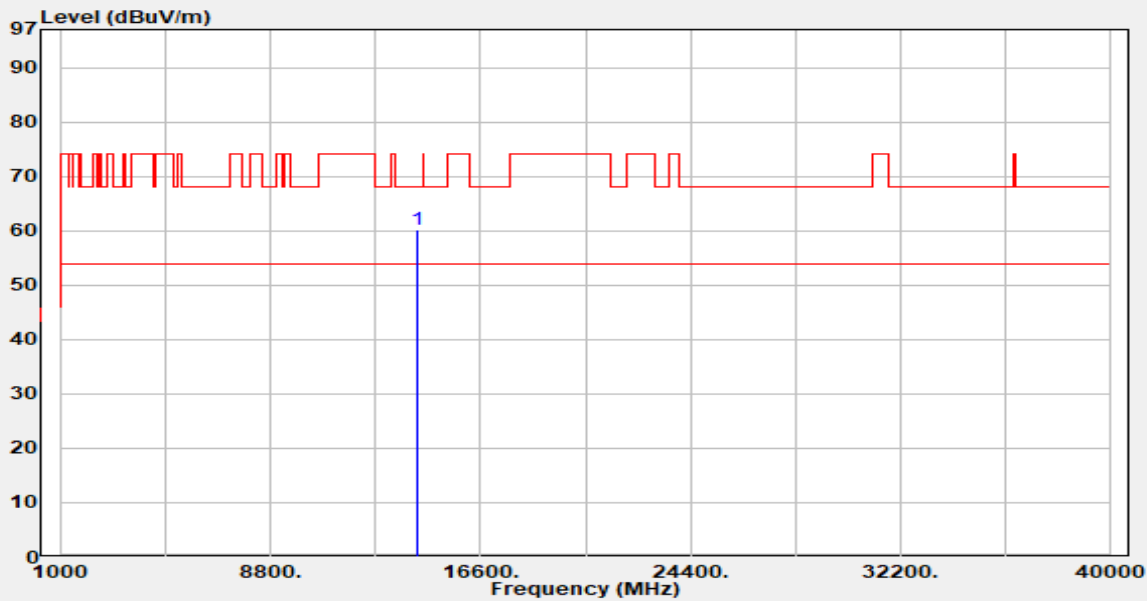
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14190.00	Peak	35.37	25.36	60.73	68.20	-7.47

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



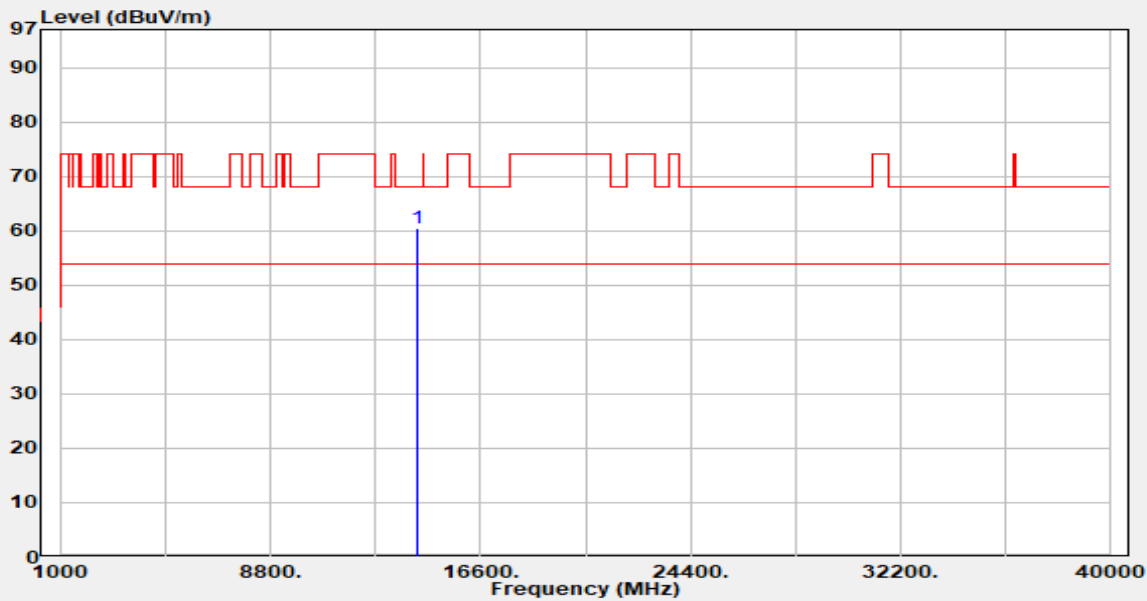
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14230.00	Peak	34.64	25.62	60.27	68.20	-7.93

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Report Number :TERF2212002775ER
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



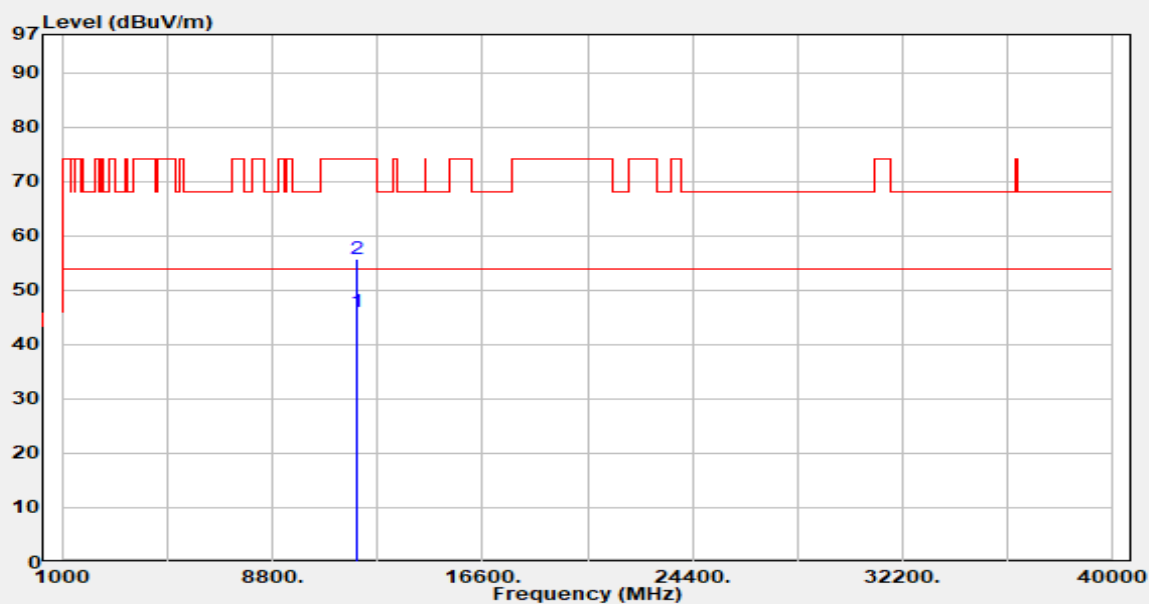
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14230.00	Peak	34.94	25.62	60.56	68.20	-7.64

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



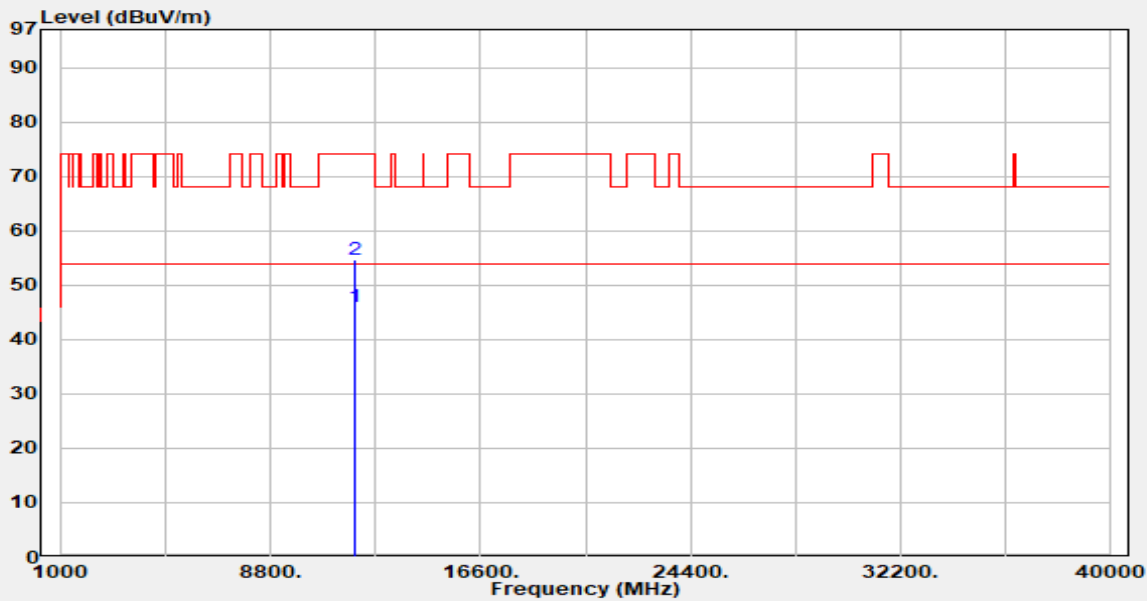
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11930.00	Average	25.09	20.83	45.92	54.00	-8.08
11930.00	Peak	34.87	20.83	55.69	74.00	-18.31

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax40
 Test Frequency :5965 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11930.00	Average	25.11	20.83	45.94	54.00	-8.06
11930.00	Peak	33.79	20.83	54.61	74.00	-19.39

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

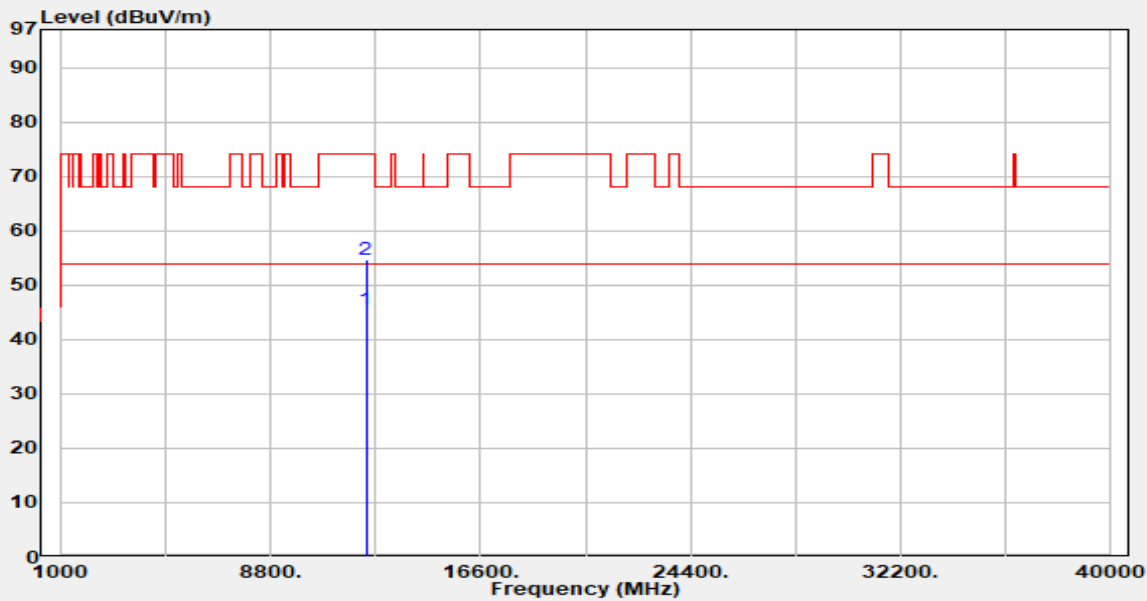
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax40
 Test Frequency :6165 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12330.00	Average	24.48	21.03	45.51	54.00	-8.49
12330.00	Peak	33.61	21.03	54.64	74.00	-19.36

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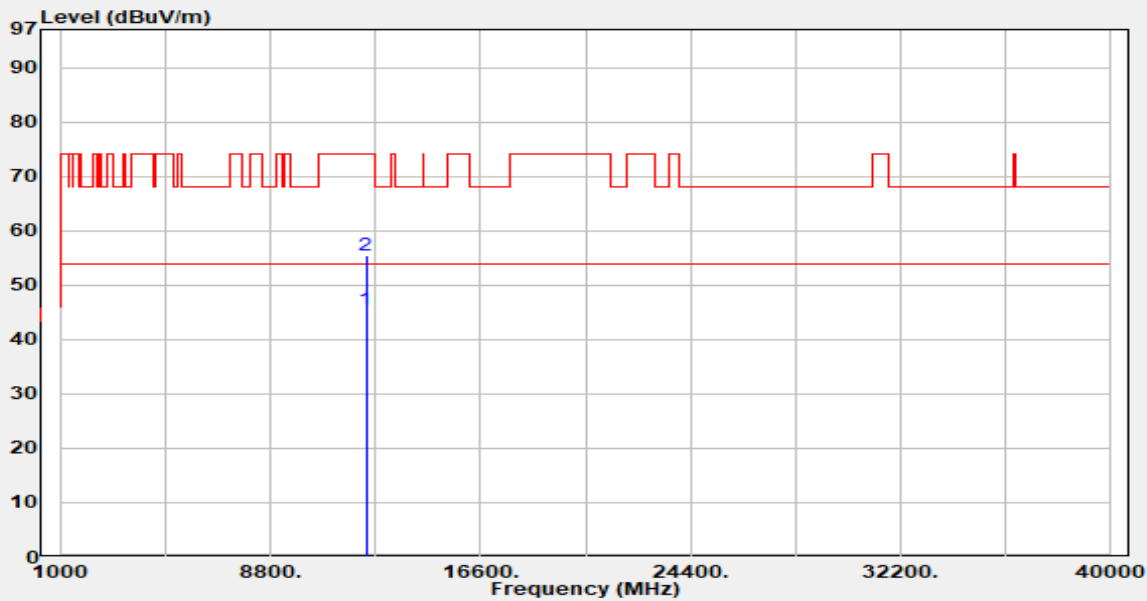
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax40
 Test Frequency :6165 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12330.00	Average	24.43	21.03	45.46	54.00	-8.54
12330.00	Peak	34.35	21.03	55.38	74.00	-18.62

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t (886-2) 2299-3279

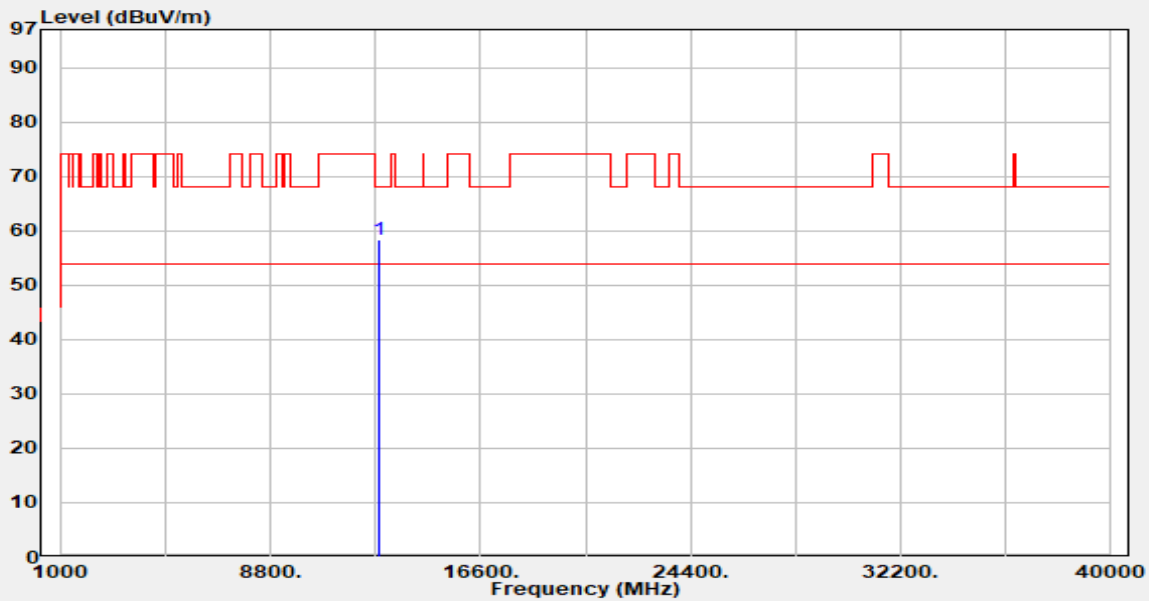
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Member of SGS Group

Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6405 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12810.00	Peak	36.25	22.20	58.45	68.20	-9.75

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6405 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



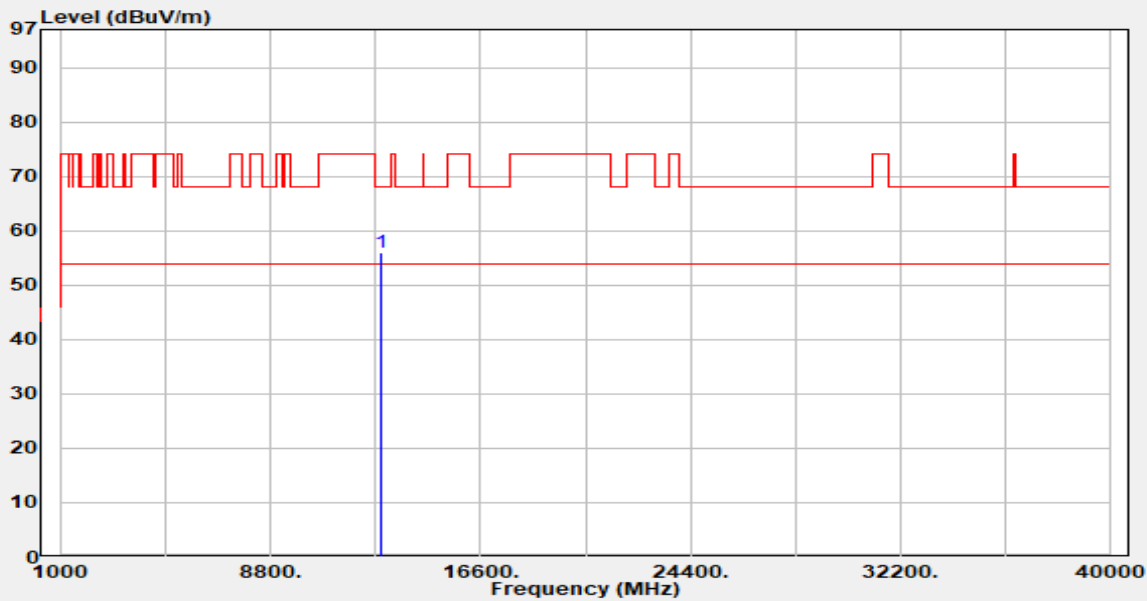
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12810.00	Peak	35.60	22.20	57.80	68.20	-10.40

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax40
 Test Frequency :6445 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



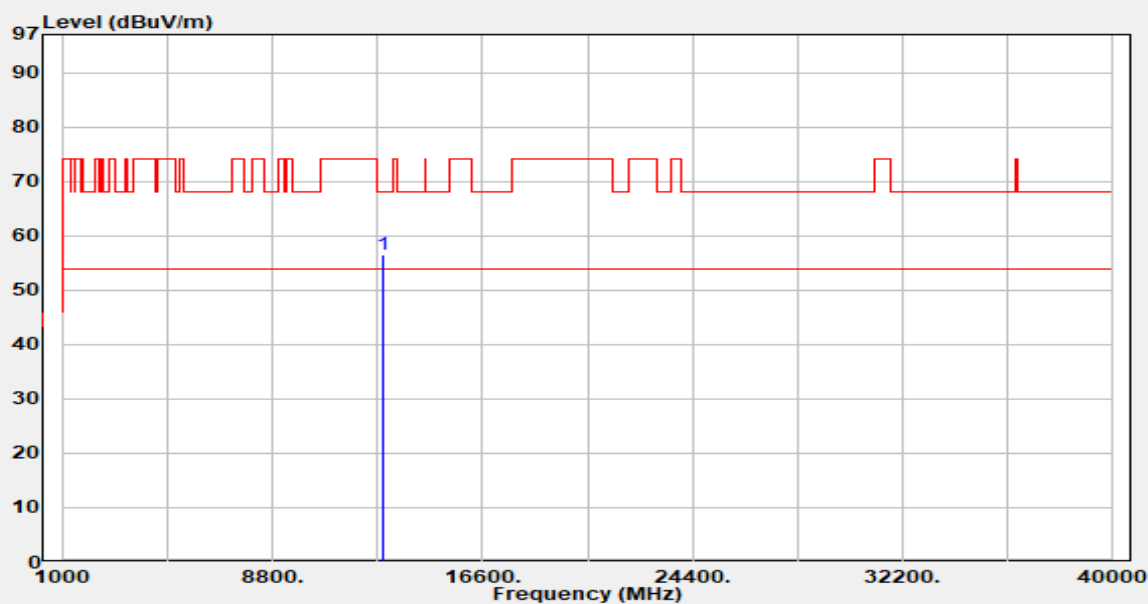
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12890.00	Peak	33.81	22.21	56.02	68.20	-12.18

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6445 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



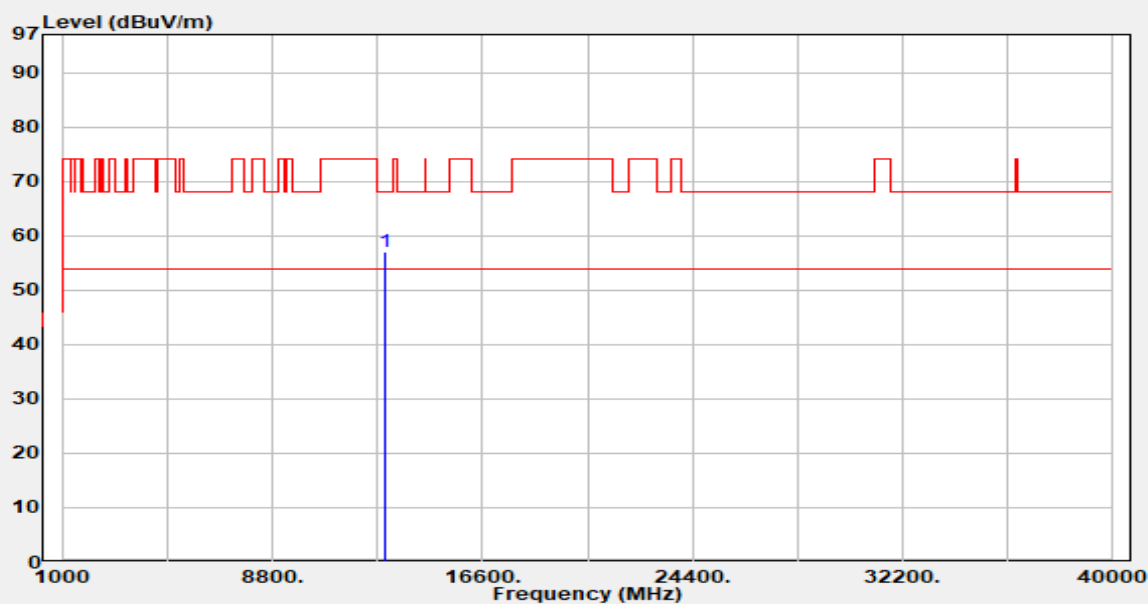
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12890.00	Peak	34.27	22.21	56.49	68.20	-11.71

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6485 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



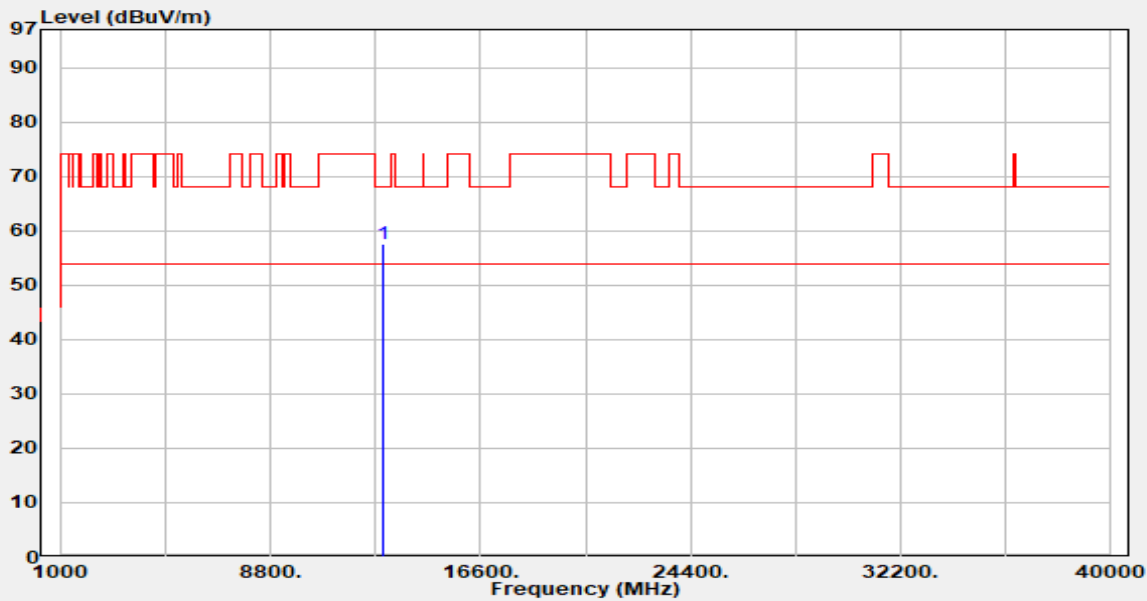
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12970.00	Peak	33.97	23.20	57.17	68.20	-11.03

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6485 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



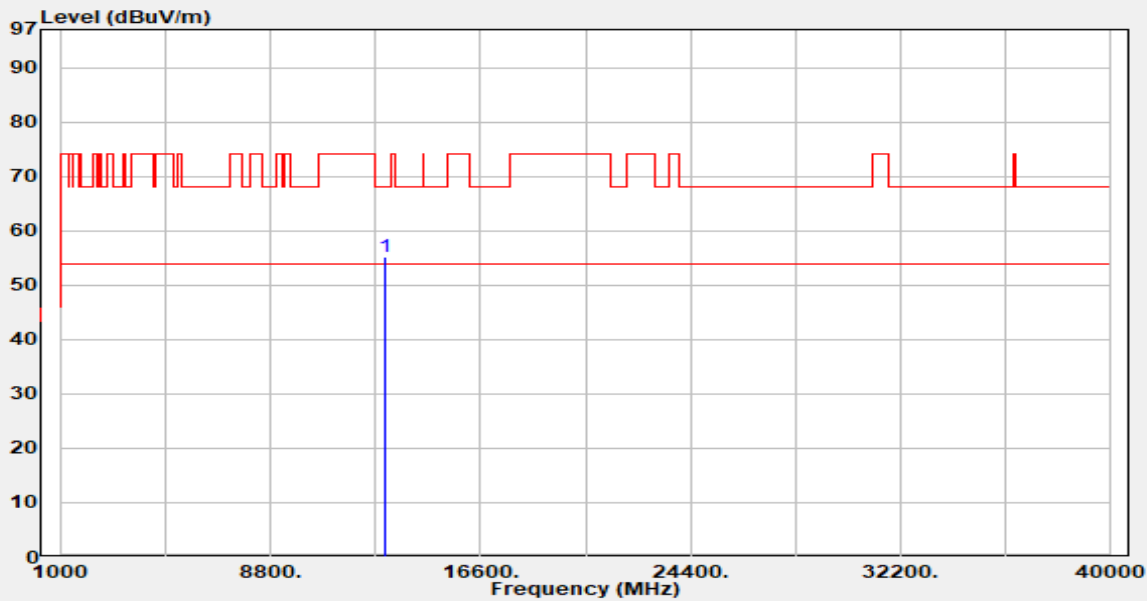
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12970.00	Peak	34.50	23.20	57.70	68.20	-10.50

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6525 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



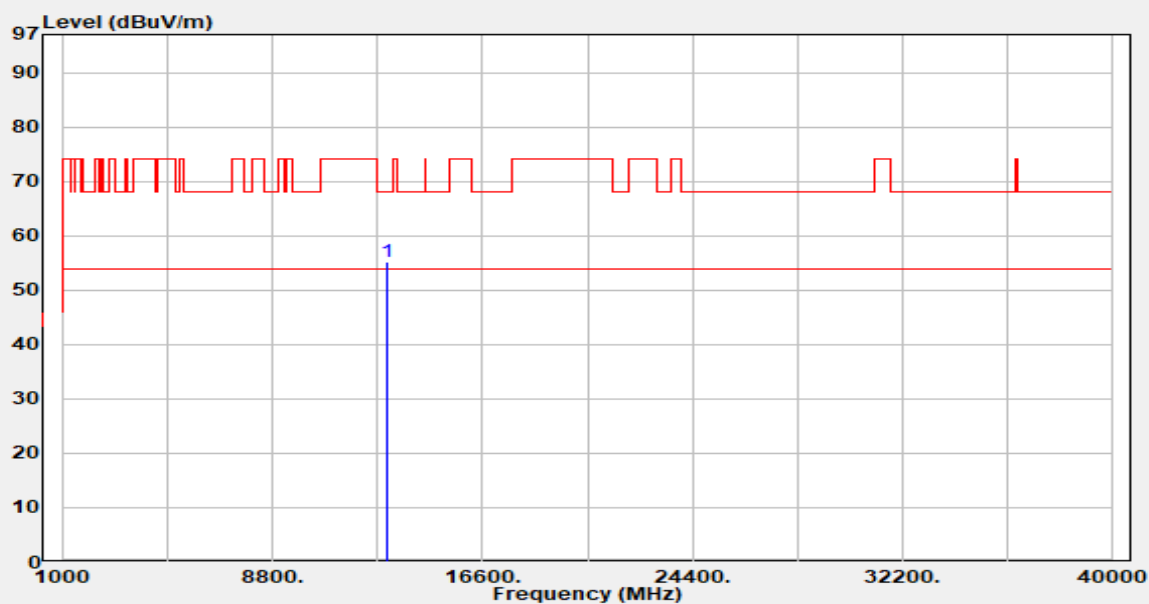
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13050.00	Peak	33.65	21.53	55.18	68.20	-13.02

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6525 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



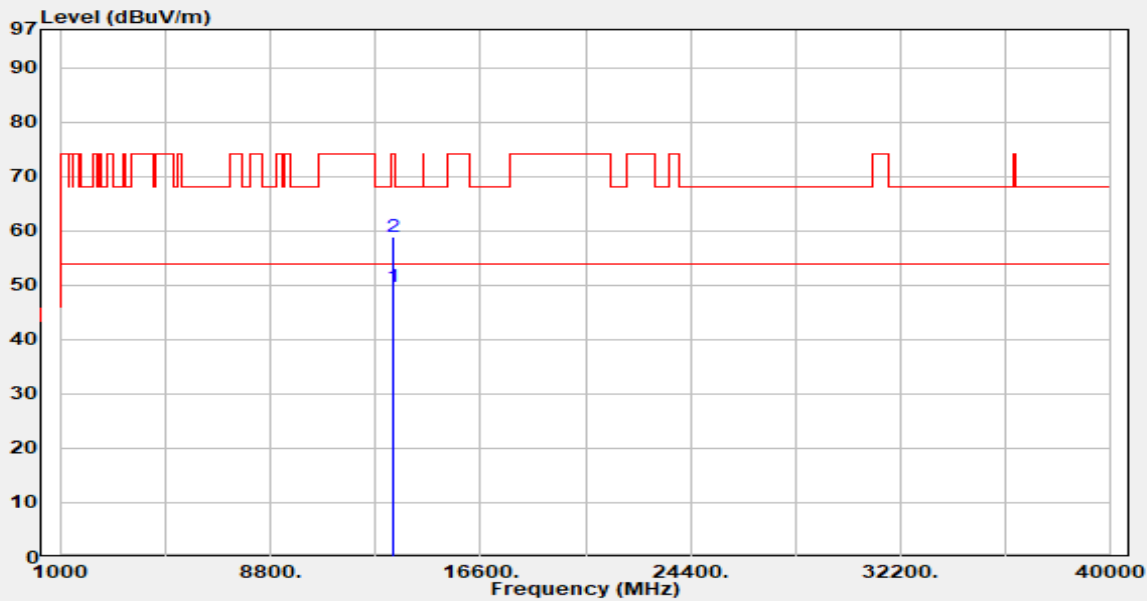
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13050.00	Peak	33.61	21.53	55.14	68.20	-13.06

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax40
 Test Frequency :6685 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



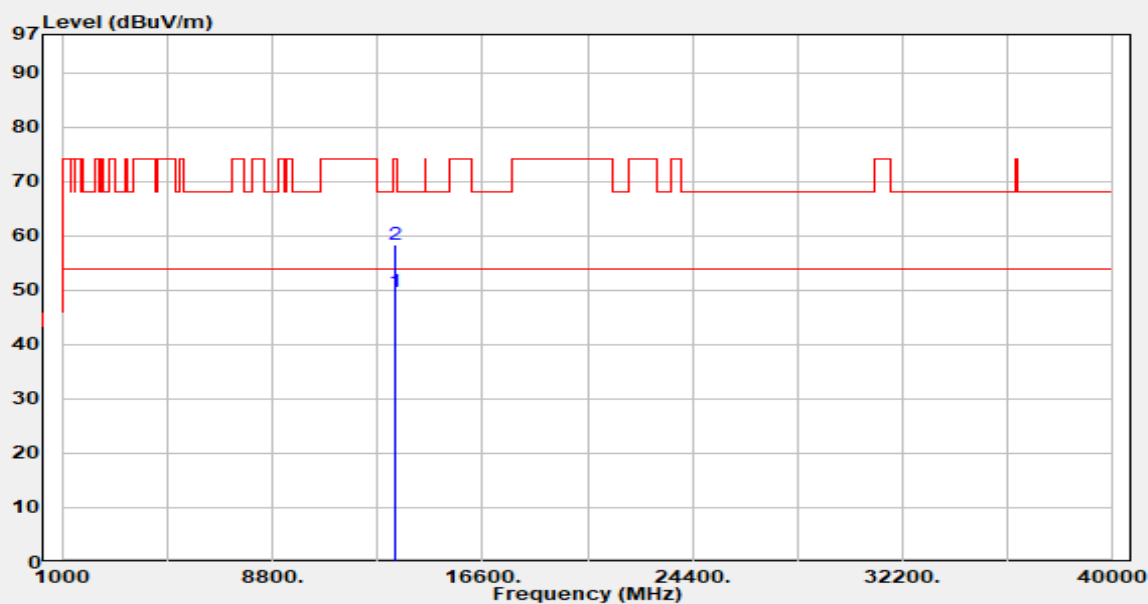
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13370.00	Average	25.71	24.00	49.71	54.00	-4.29
13370.00	Peak	34.84	24.00	58.84	74.00	-15.16

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6685 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



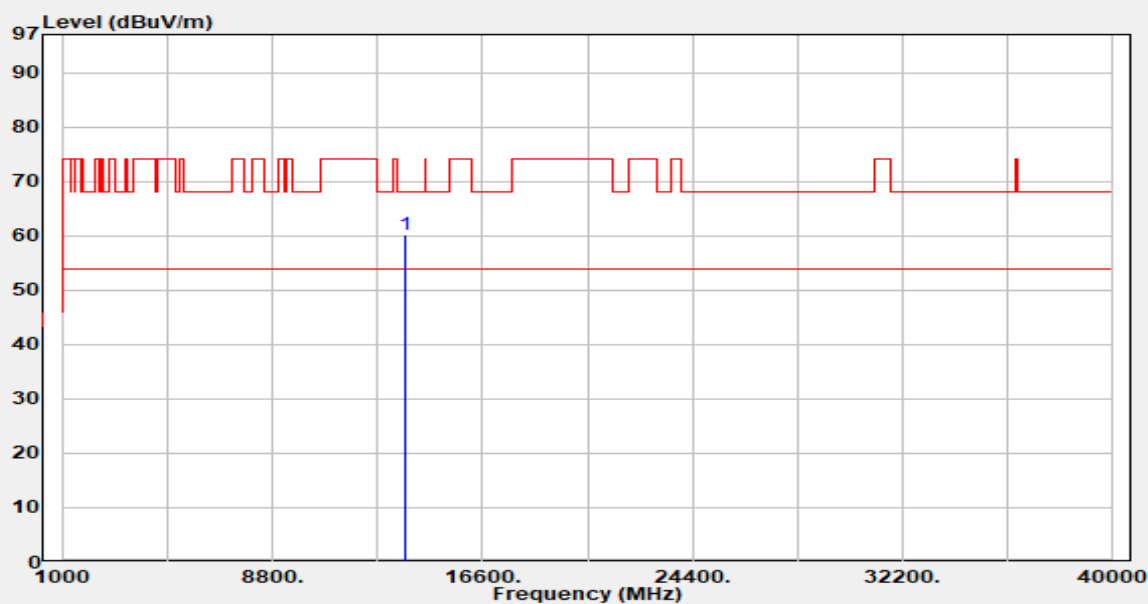
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13370.00	Average	25.65	24.00	49.65	54.00	-4.35
13370.00	Peak	34.35	24.00	58.35	74.00	-15.65

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax40
 Test Frequency :6845 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13690.00	Peak	35.30	24.94	60.24	68.20	-7.96

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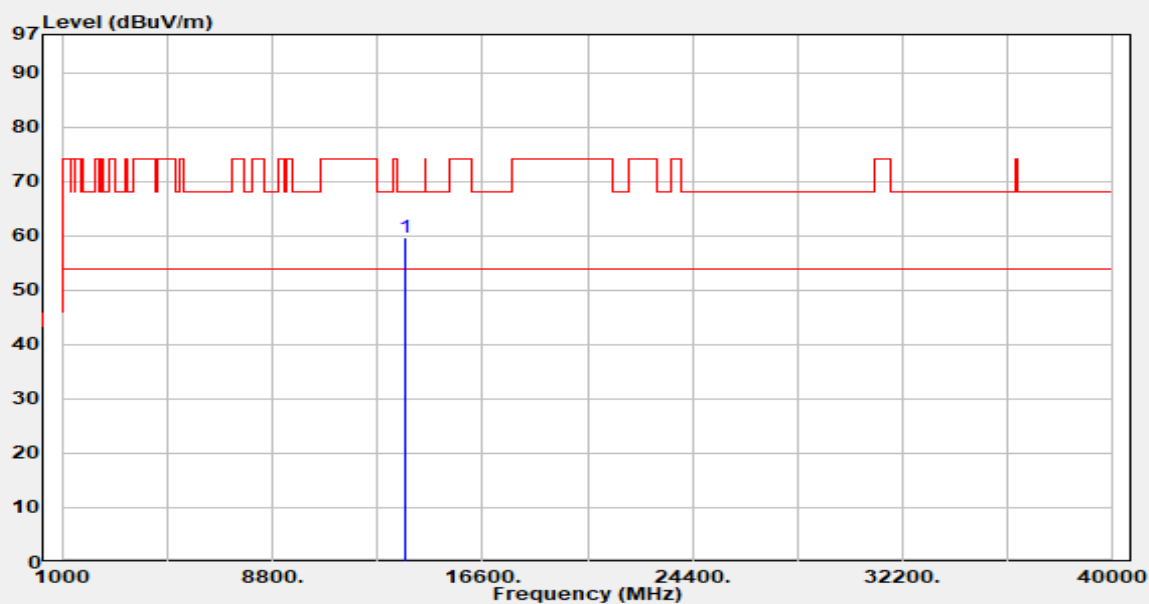
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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6845 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13690.00	Peak	34.74	24.94	59.68	68.20	-8.52

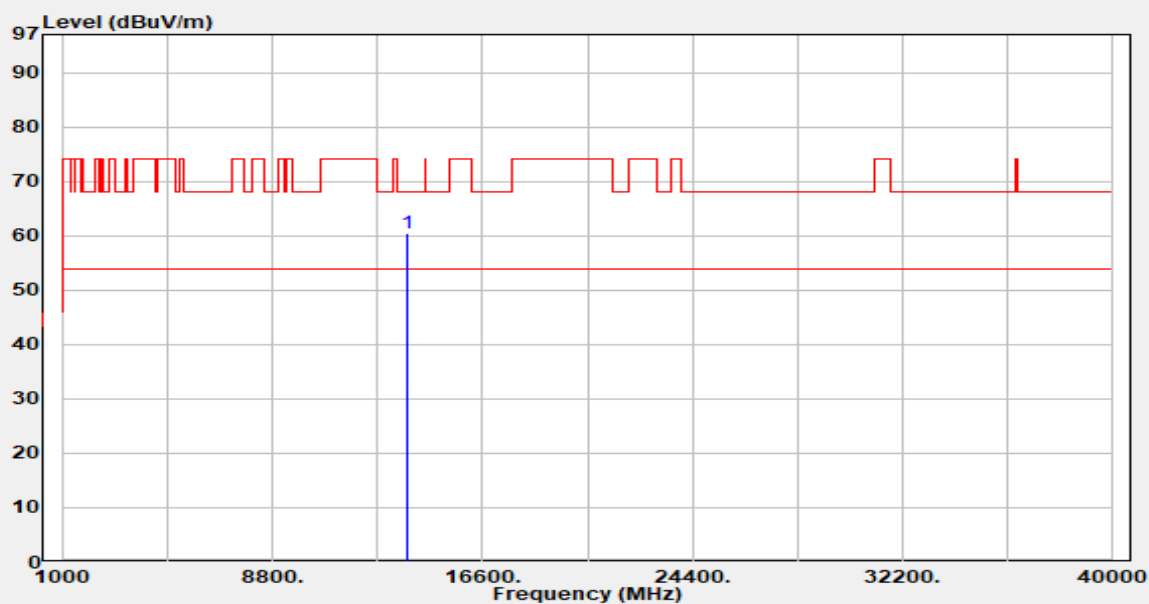
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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6885 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13770.00	Peak	35.79	24.66	60.45	68.20	-7.75

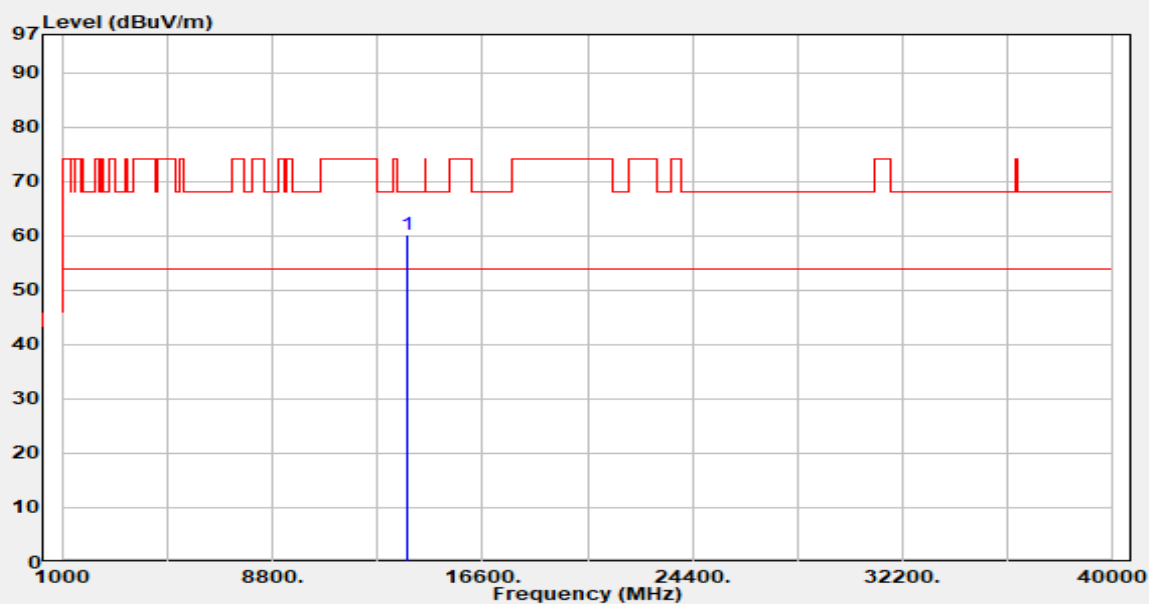
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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :6885 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13770.00	Peak	35.50	24.66	60.16	68.20	-8.04

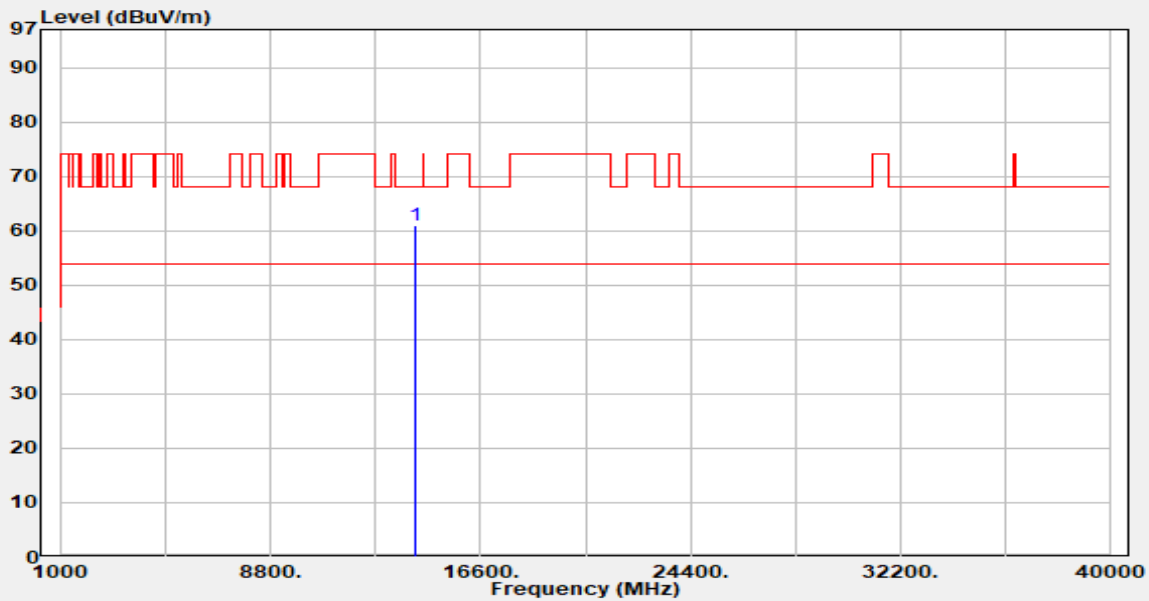
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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



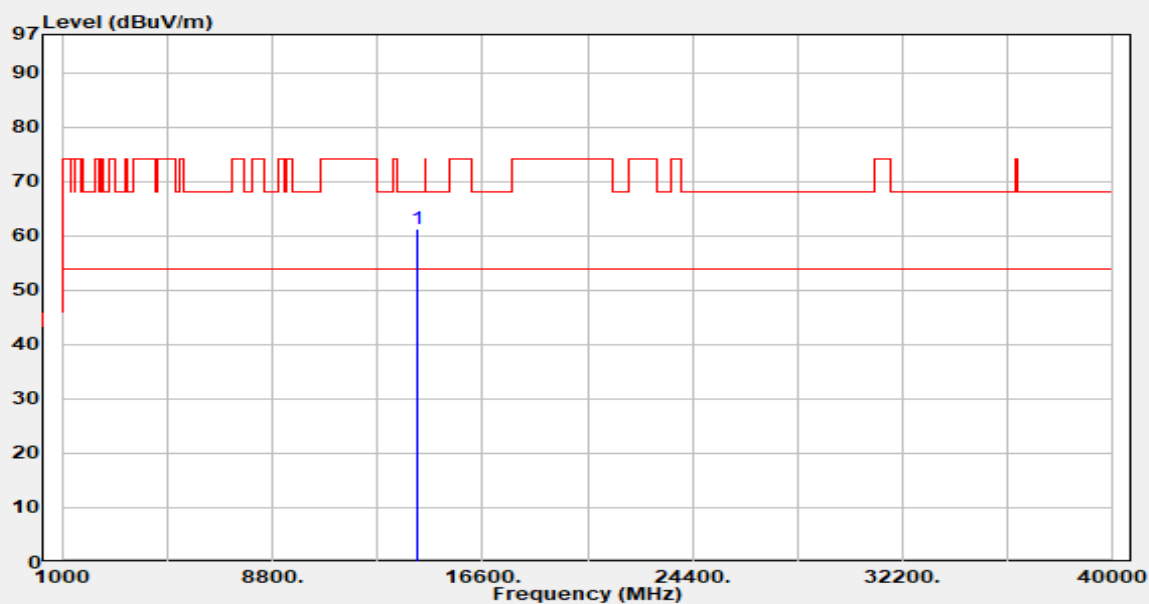
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
14170.00	Peak	35.46	25.50	60.96	68.20	-7.24

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Report Number :TERF2212002775ER
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



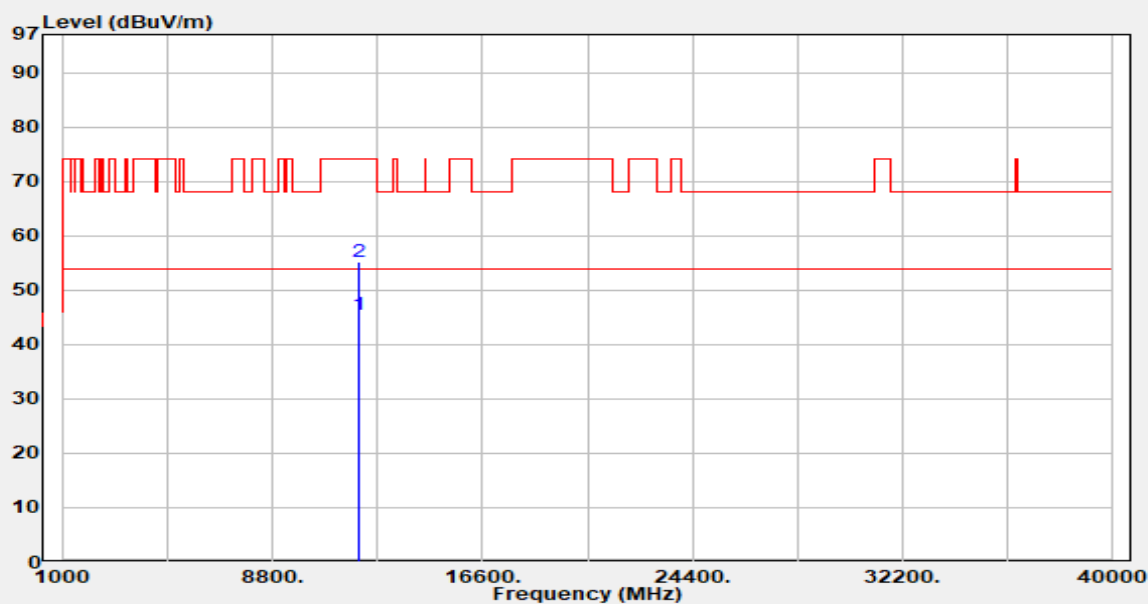
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
14170.00	Peak	35.81	25.50	61.31	68.20	-6.89

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :5985 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1170.00	Average	24.63	20.85	45.48	54.00	-8.52
1170.00	Peak	34.29	20.85	55.14	74.00	-18.86

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

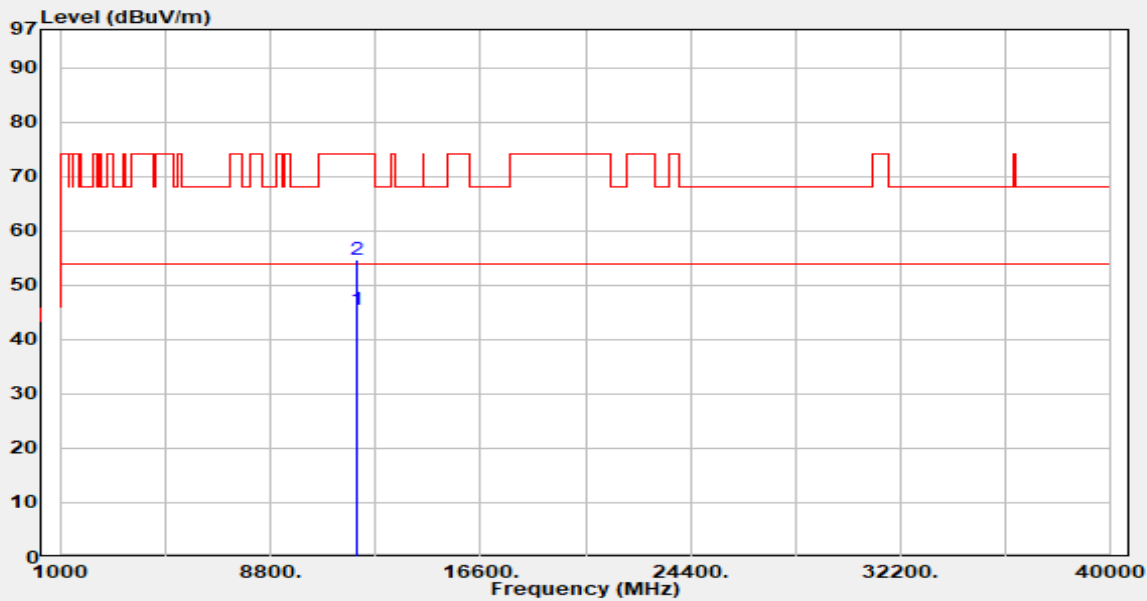
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :5985 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



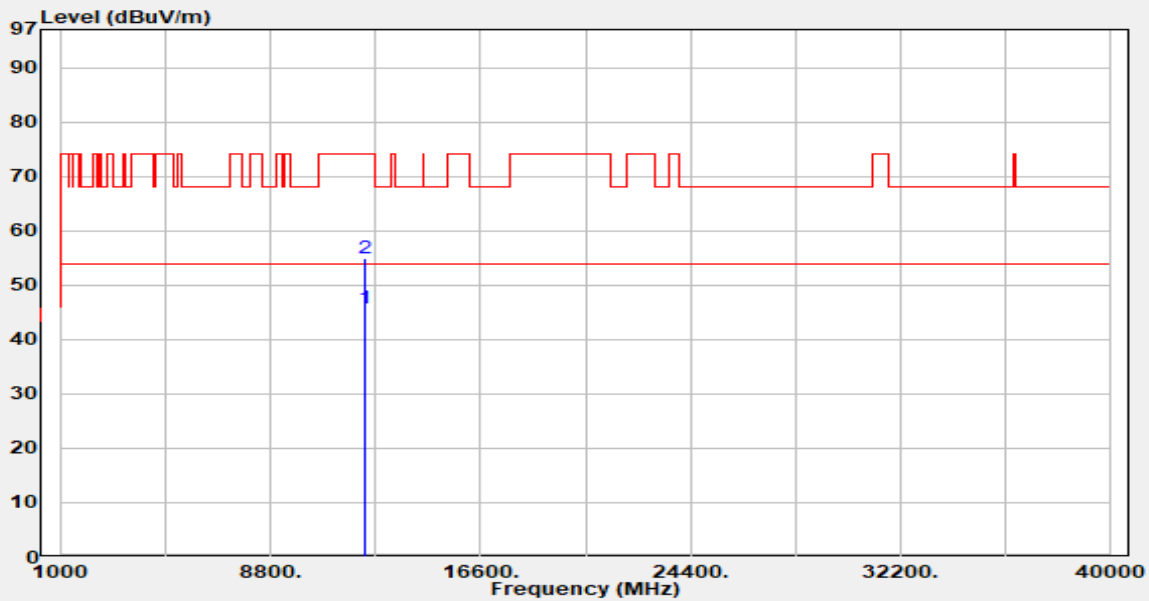
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11970.00	Average	24.67	20.85	45.52	54.00	-8.48
11970.00	Peak	33.91	20.85	54.76	74.00	-19.24

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :6145 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



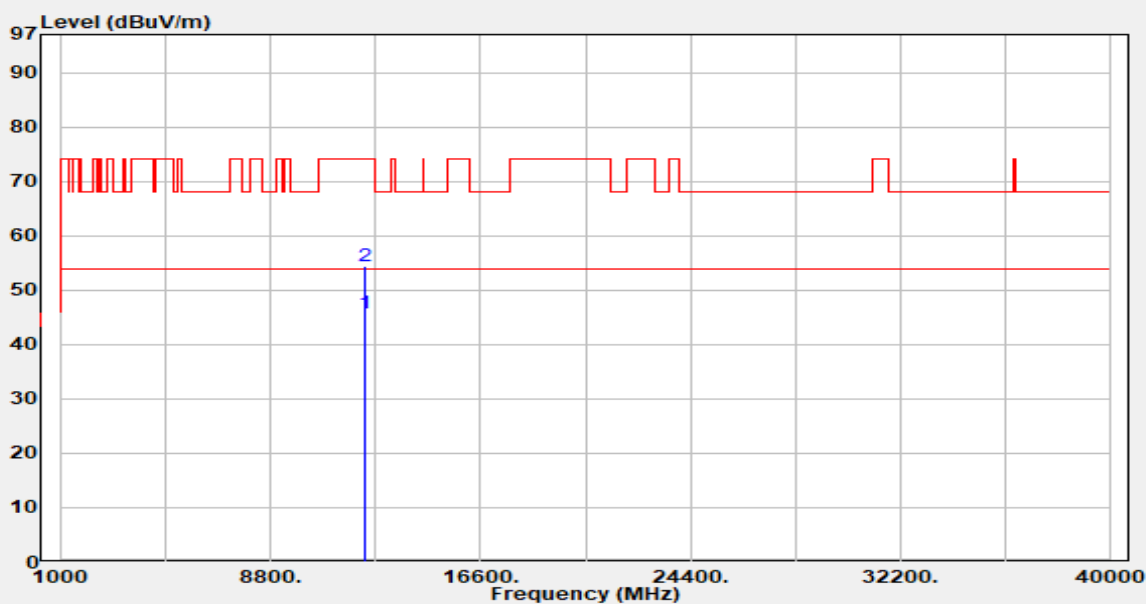
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12290.00	Average	24.67	21.04	45.71	54.00	-8.29
12290.00	Peak	34.02	21.04	55.06	74.00	-18.94

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :6145 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12290.00	Average	24.70	21.04	45.74	54.00	-8.26
12290.00	Peak	33.51	21.04	54.54	74.00	-19.46

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

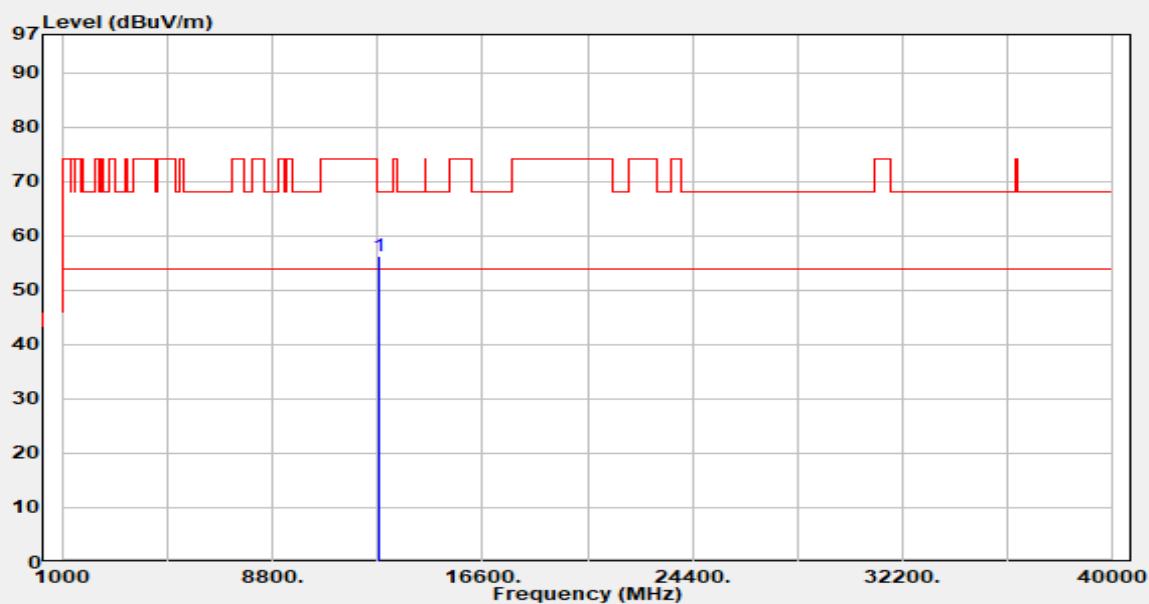
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6385 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12770.00	Peak	34.12	22.27	56.38	68.20	-11.82

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

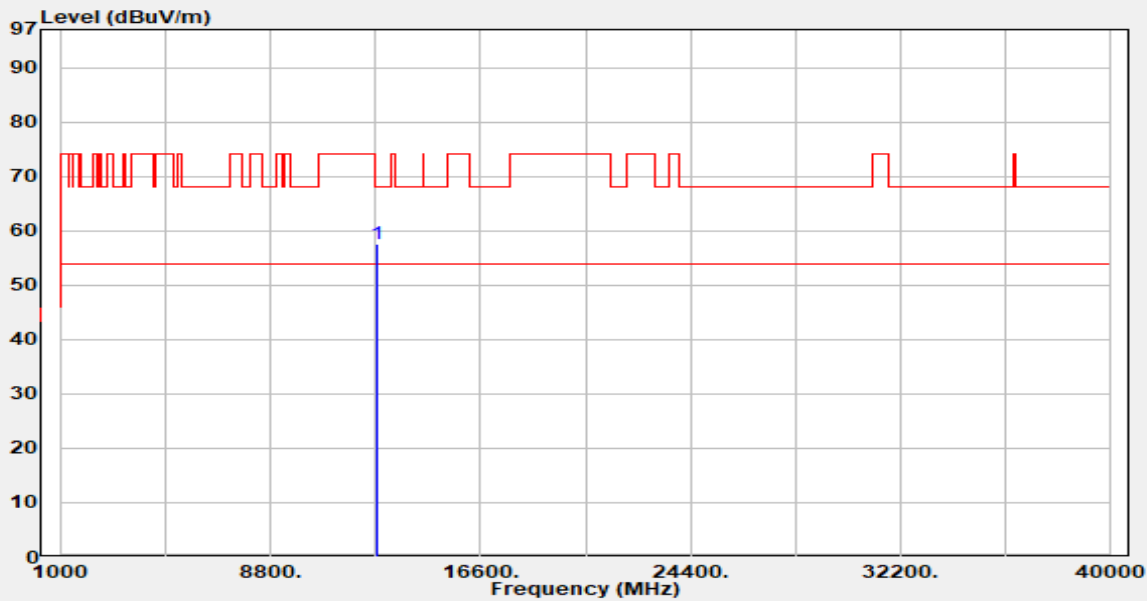
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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6385 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



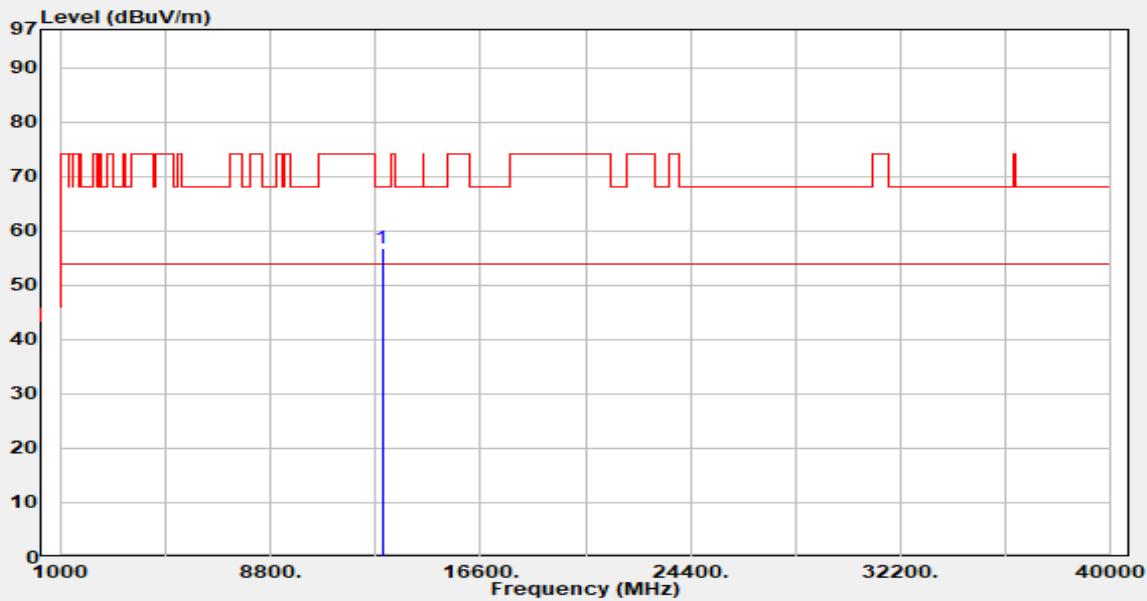
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12770.00	Peak	35.37	22.27	57.64	68.20	-10.56

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6465 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



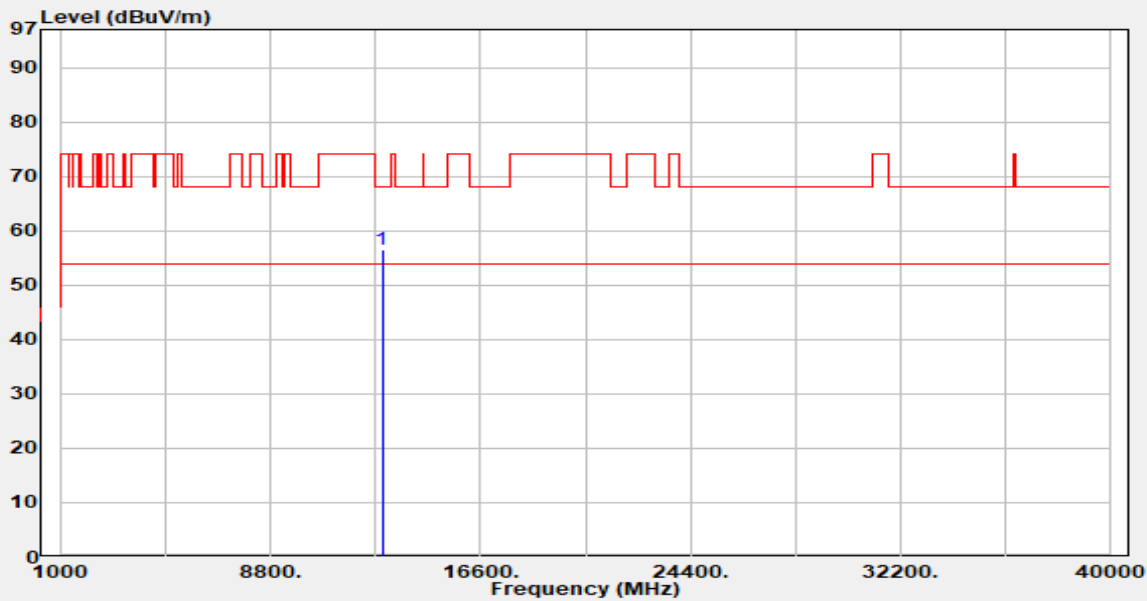
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12930.00	Peak	34.01	22.76	56.77	68.20	-11.43

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6465 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



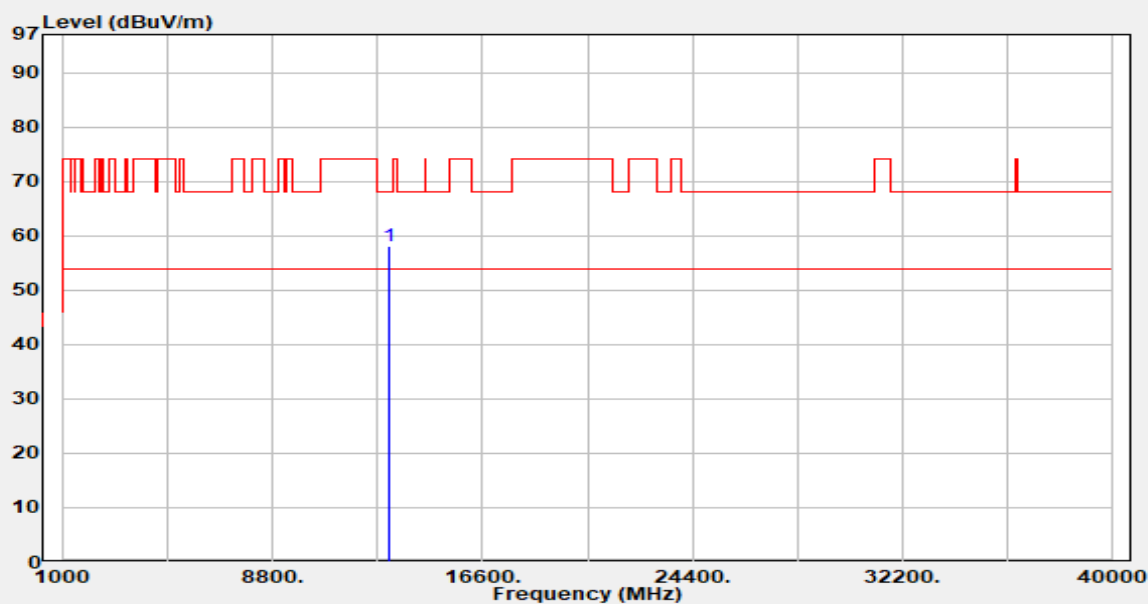
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12930.00	Peak	33.83	22.76	56.59	68.20	-11.61

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :6545 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13090.00	Peak	34.45	23.75	58.21	68.20	-9.99

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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

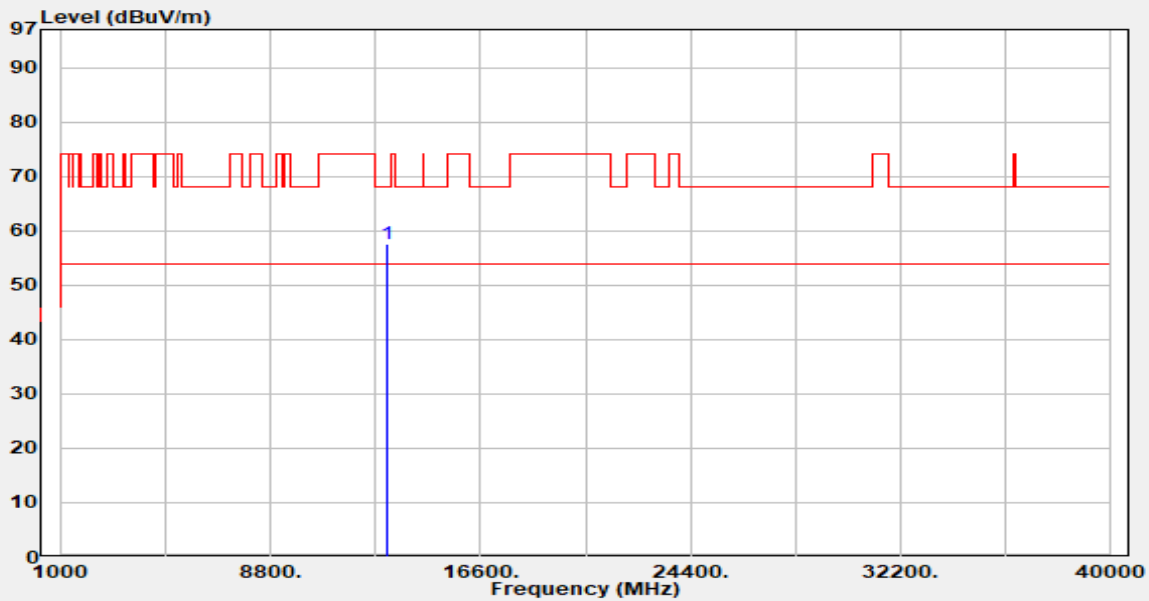
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6545 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



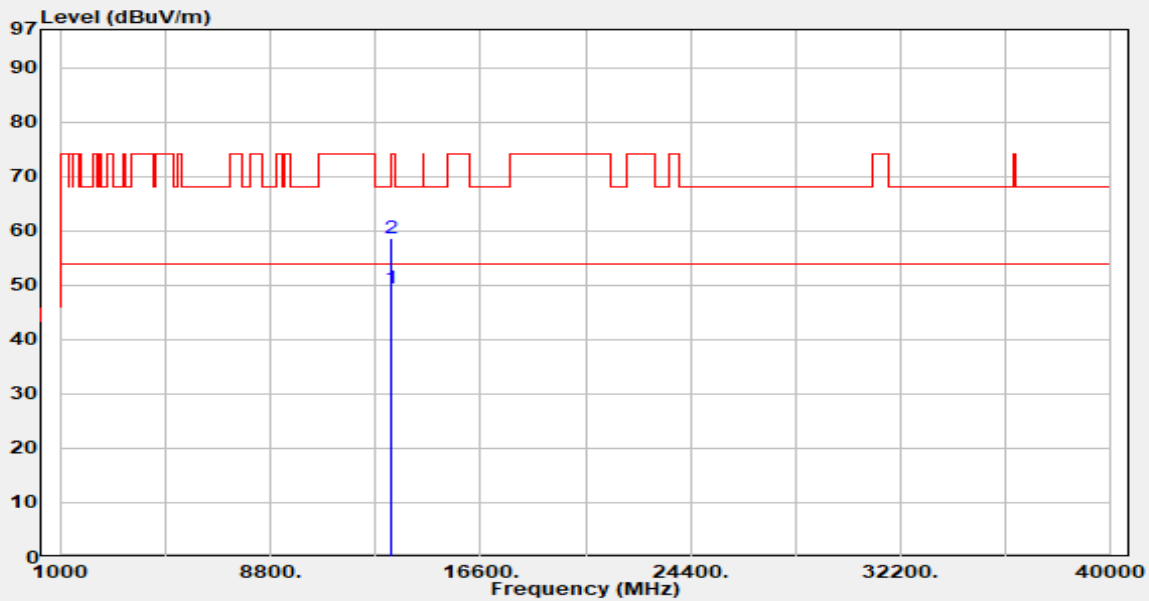
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13090.00	Peak	33.83	23.75	57.58	68.20	-10.62

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :6625 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



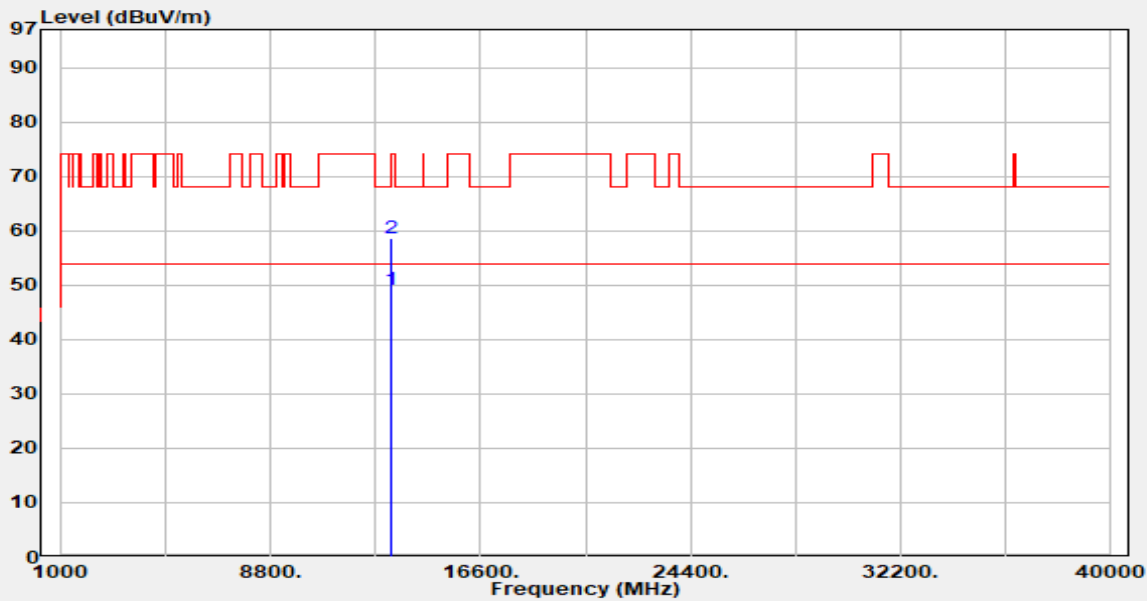
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13250.00	Average	25.60	23.69	49.29	54.00	-4.71
13250.00	Peak	34.87	23.69	58.57	74.00	-15.43

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6625 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



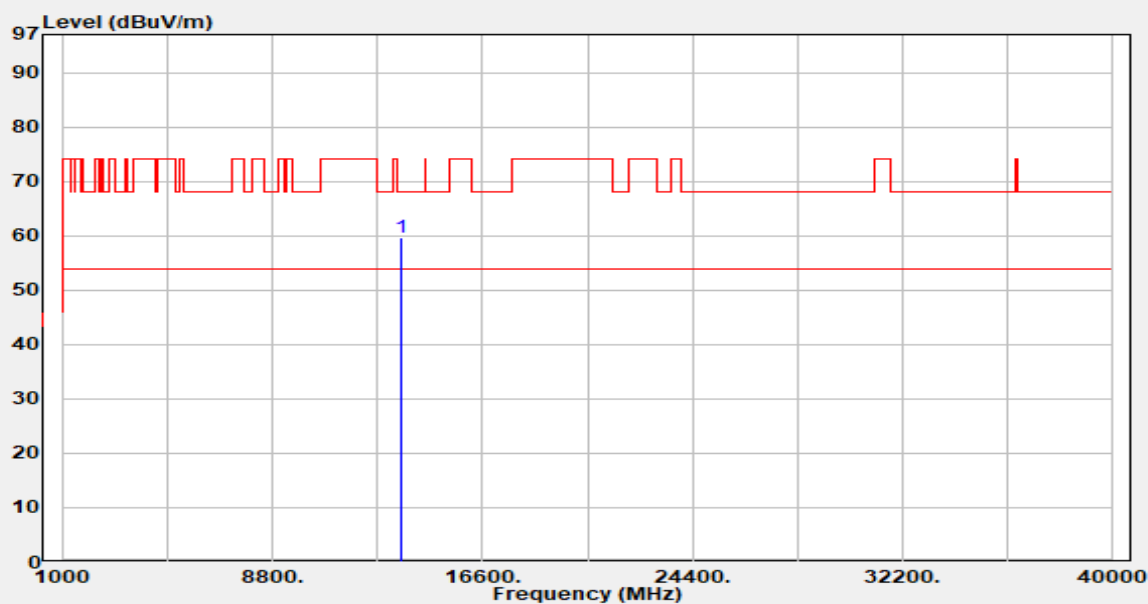
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13250.00	Average	25.55	23.69	49.24	54.00	-4.76
13250.00	Peak	34.92	23.69	58.62	74.00	-15.38

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6785 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



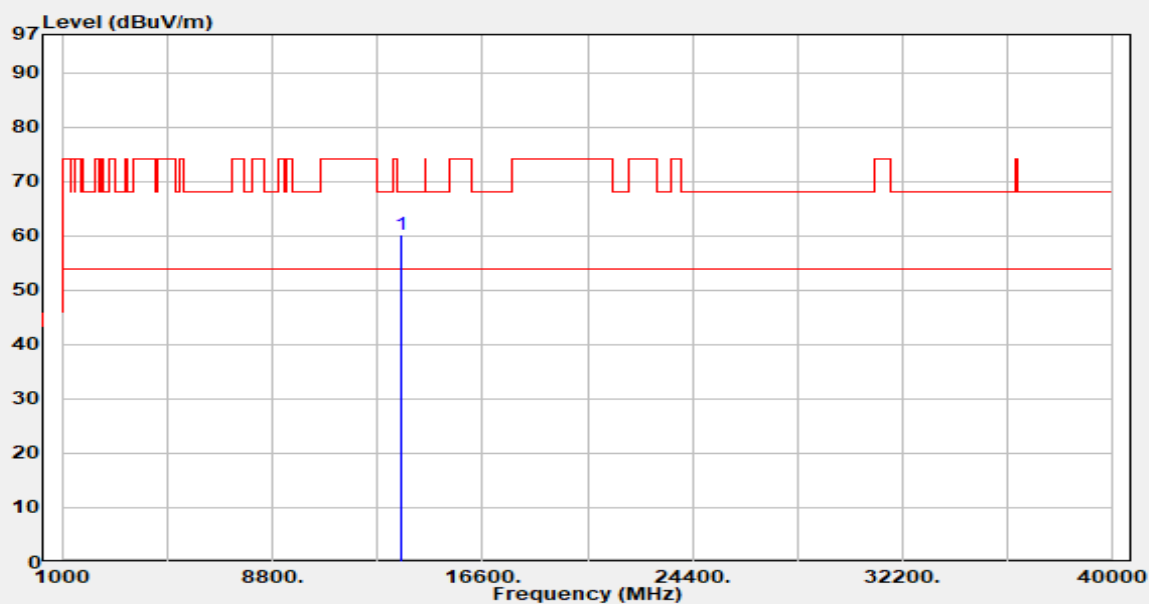
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13570.00	Peak	35.34	24.32	59.67	68.20	-8.53

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6785 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13570.00	Peak	35.87	24.32	60.20	68.20	-8.00

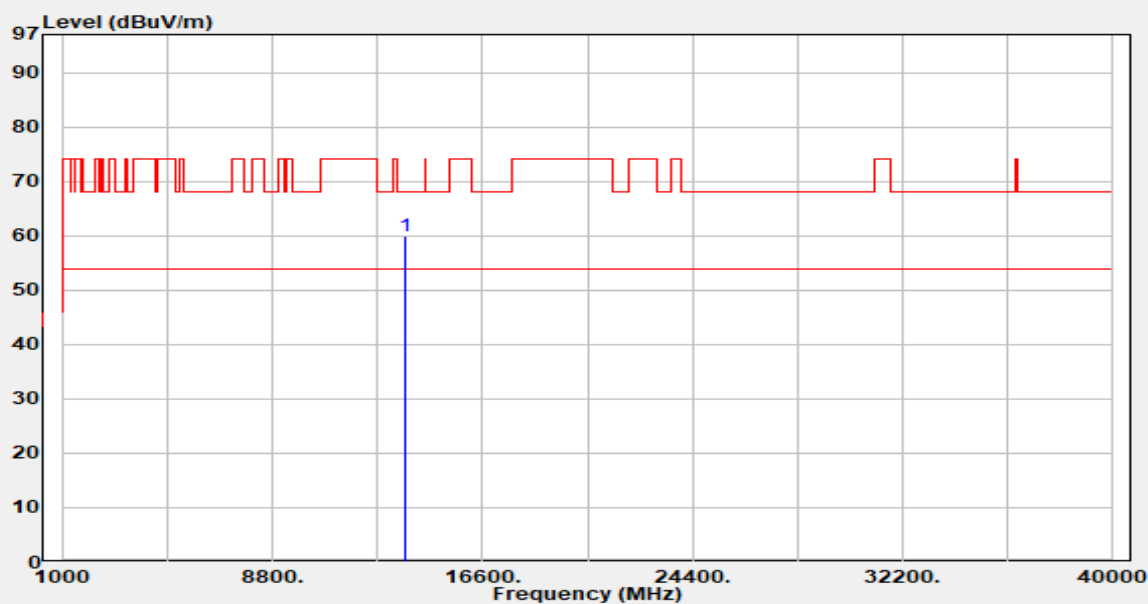
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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6865 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



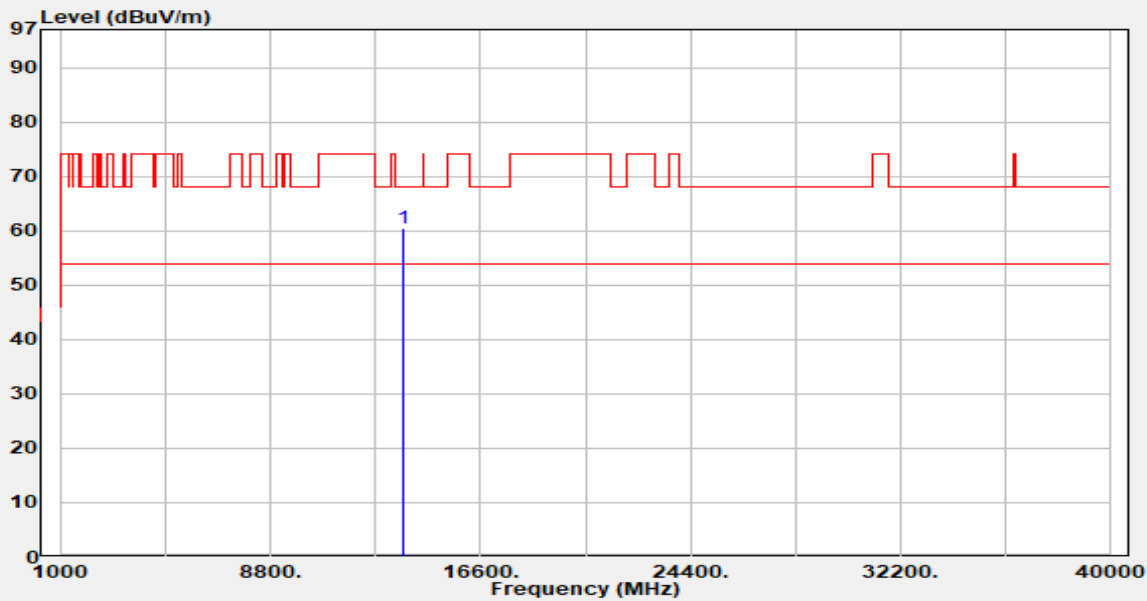
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13730.00	Peak	35.11	24.76	59.87	68.20	-8.33

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax80
 Test Frequency :6865 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



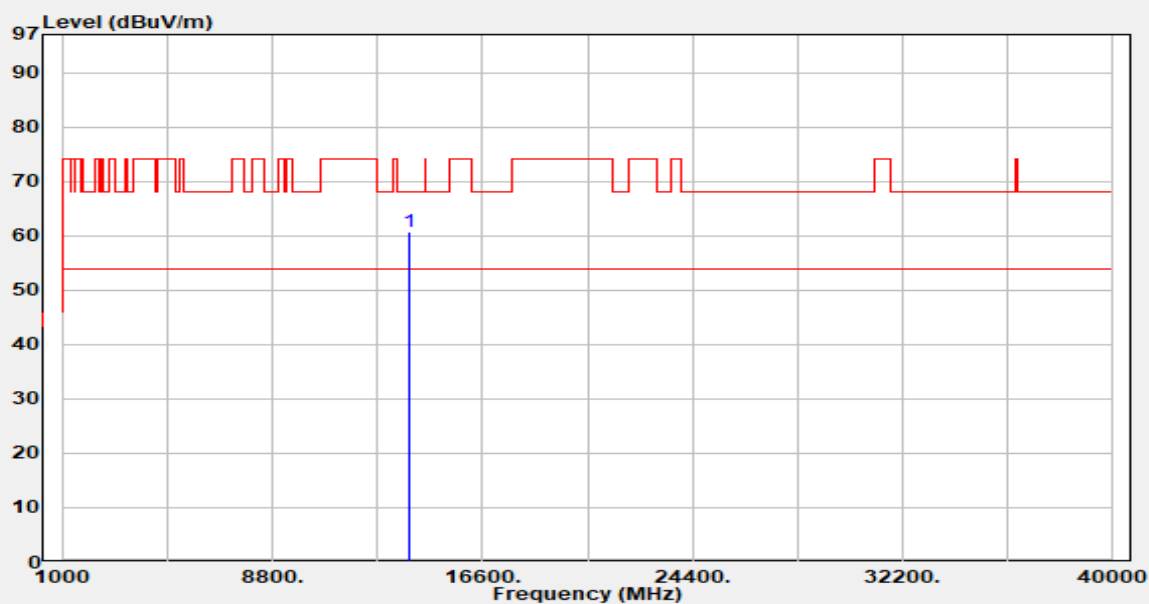
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13730.00	Peak	35.78	24.76	60.54	68.20	-7.66

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6945 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



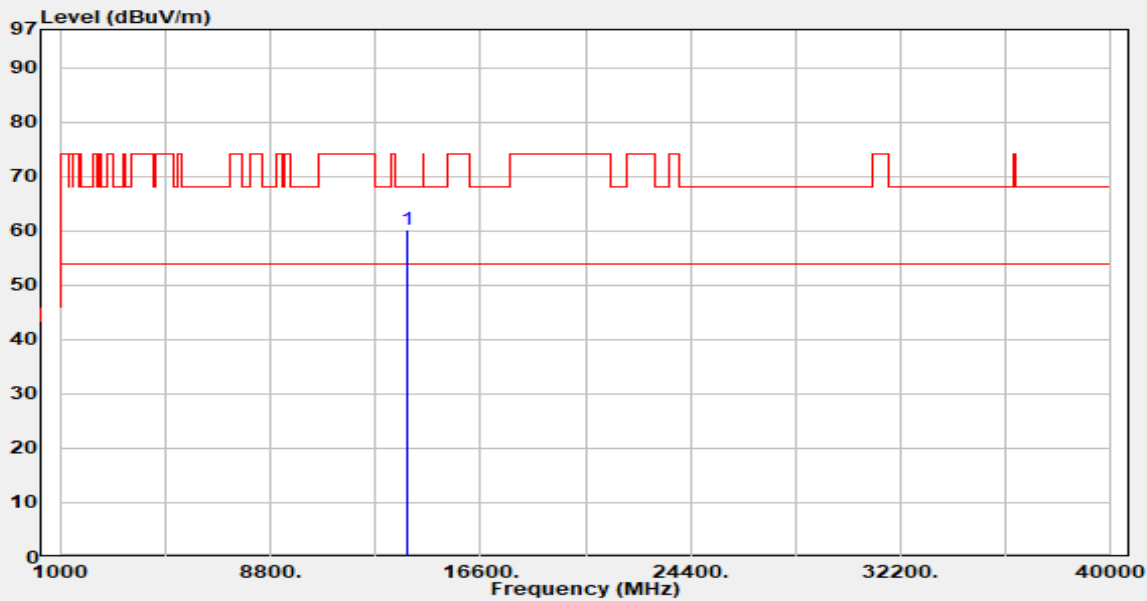
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13890.00	Peak	35.43	25.29	60.72	68.20	-7.48

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :6945 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



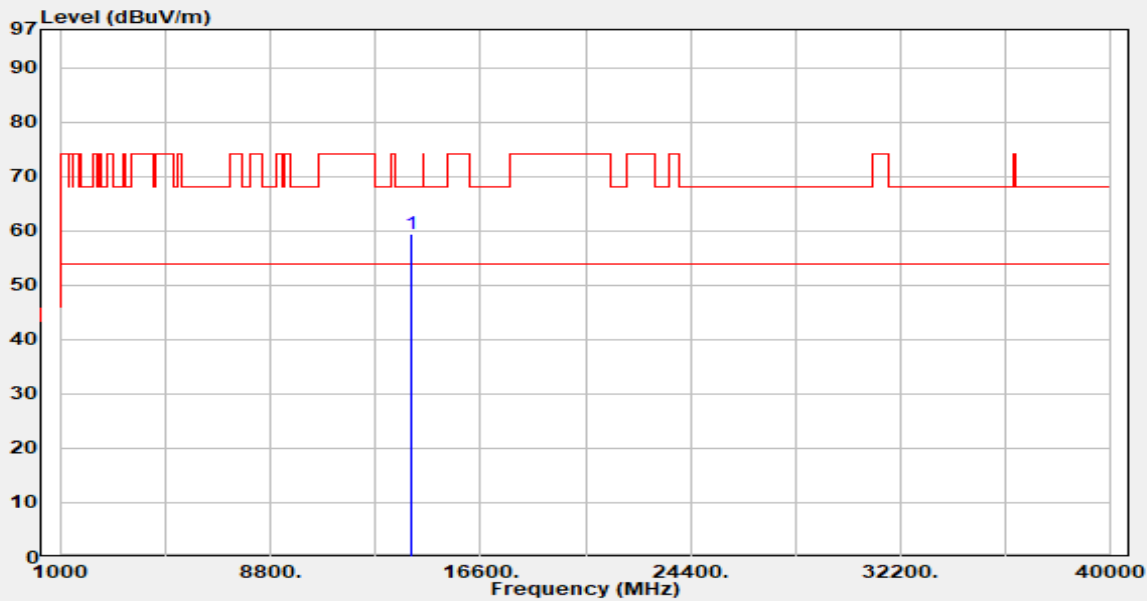
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13890.00	Peak	35.00	25.29	60.29	68.20	-7.91

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :7025 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



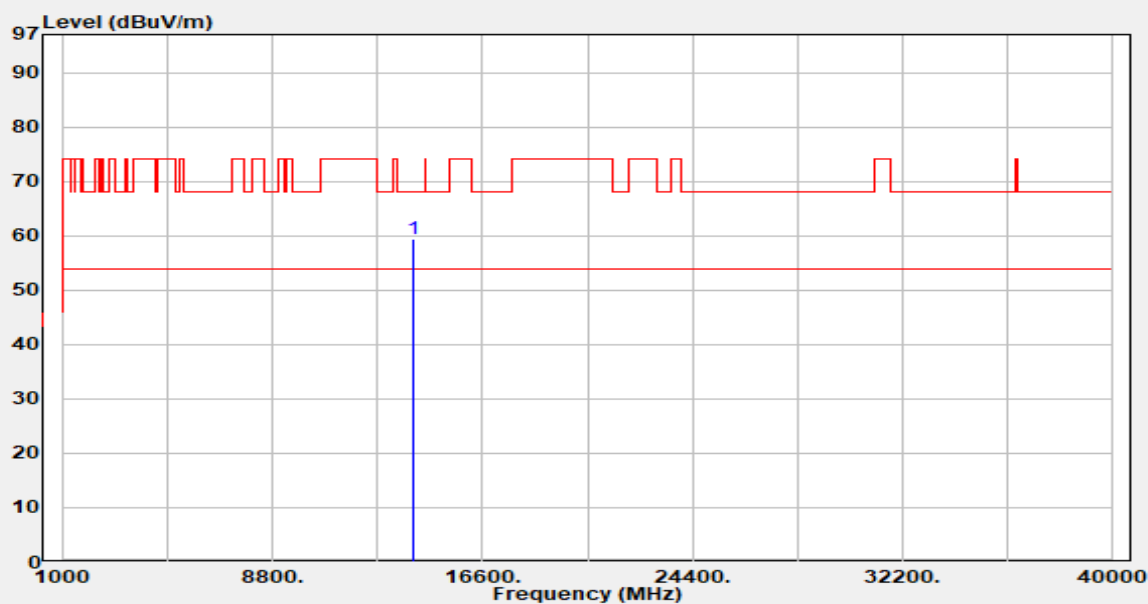
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14050.00	Peak	33.91	25.42	59.33	68.20	-8.87

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Report Number :TERF2212002775ER
Operation Mode :802.11ax80
Test Frequency :7025 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



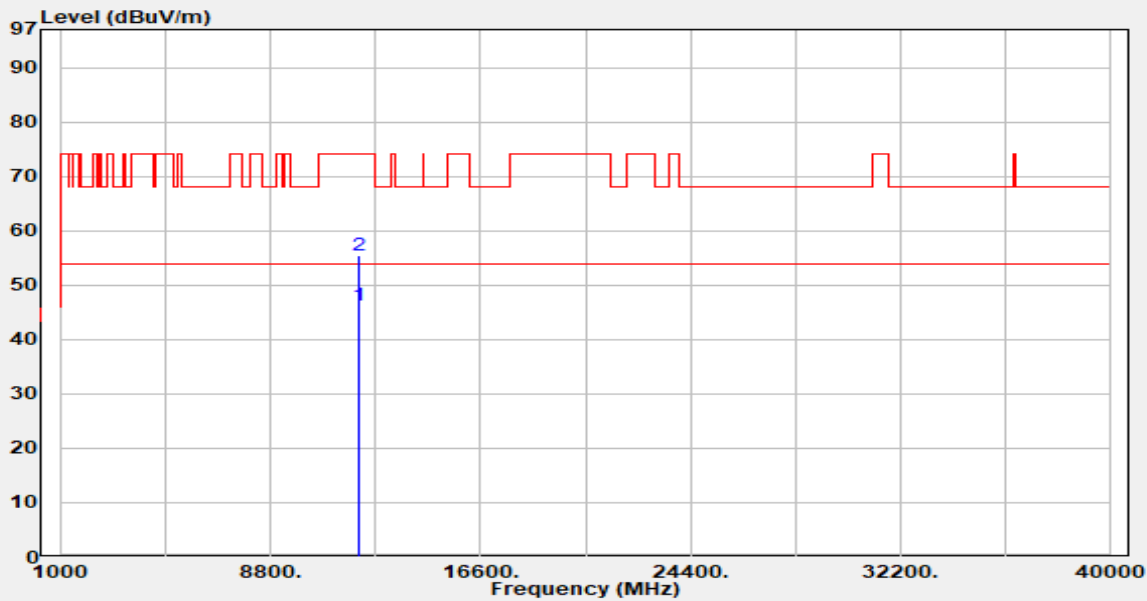
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14050.00	Peak	33.94	25.42	59.36	68.20	-8.84

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6025 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



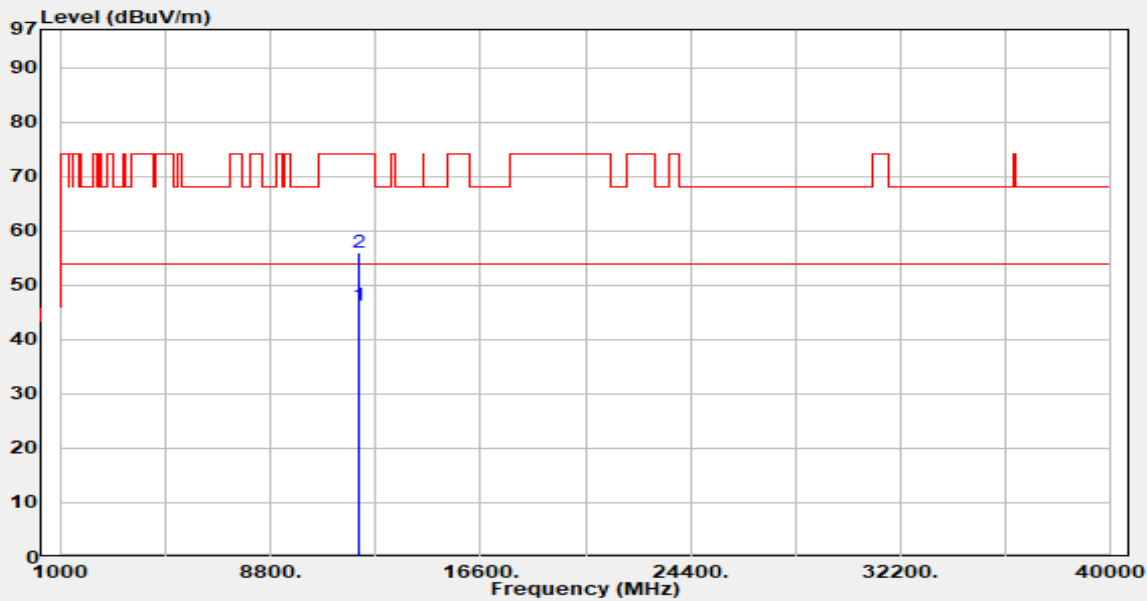
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12050.00	Average	25.11	21.28	46.39	54.00	-7.61
12050.00	Peak	34.24	21.28	55.52	74.00	-18.48

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6025 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



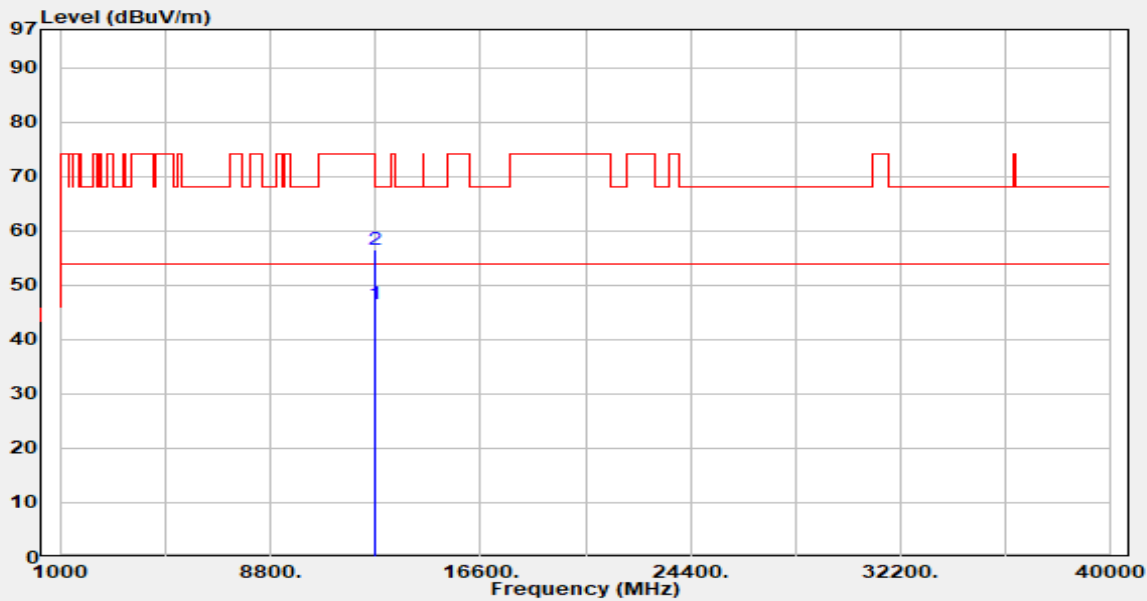
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
12050.00	Average	25.09	21.28	46.37	54.00	-7.63
12050.00	Peak	34.75	21.28	56.04	74.00	-17.96

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6345 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



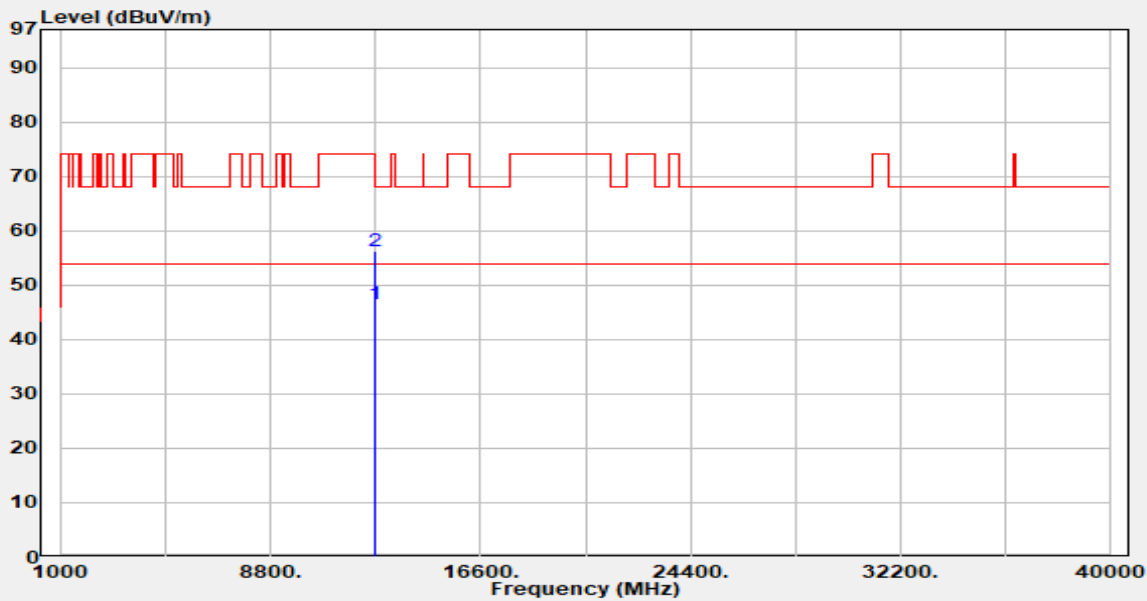
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12690.00	Average	24.90	21.57	46.47	54.00	-7.53
12690.00	Peak	34.99	21.57	56.56	74.00	-17.44

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6345 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



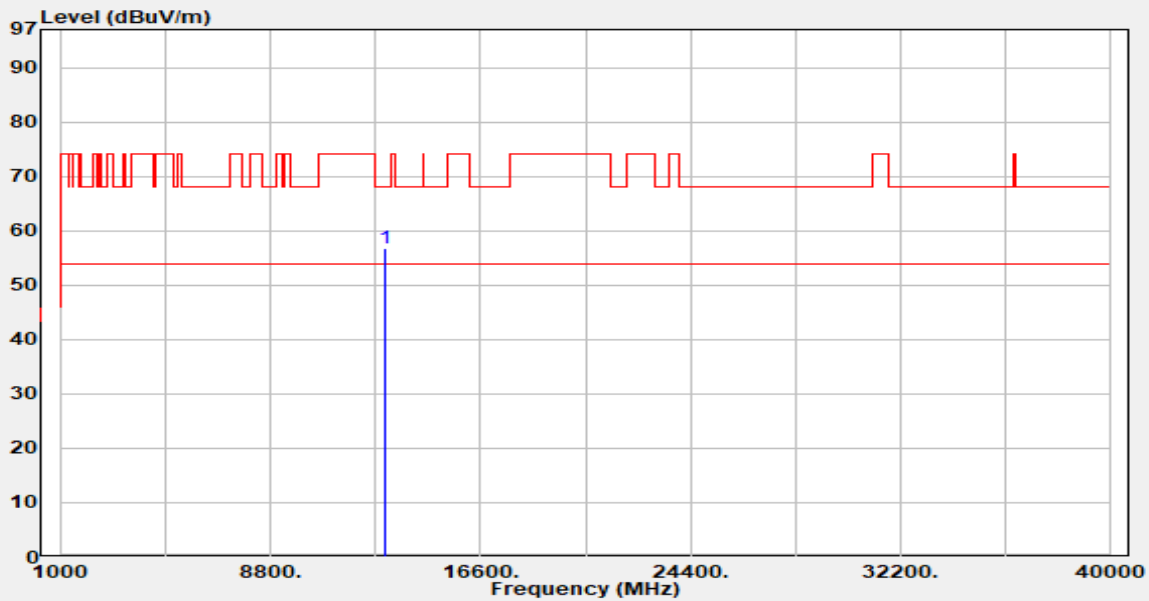
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
12690.00	Average	24.93	21.57	46.50	54.00	-7.50
12690.00	Peak	34.67	21.57	56.23	74.00	-17.77

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Report Number :TERF2212002775ER
Operation Mode :802.11ax160
Test Frequency :6505 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Vertical
Engineer :GN Lin



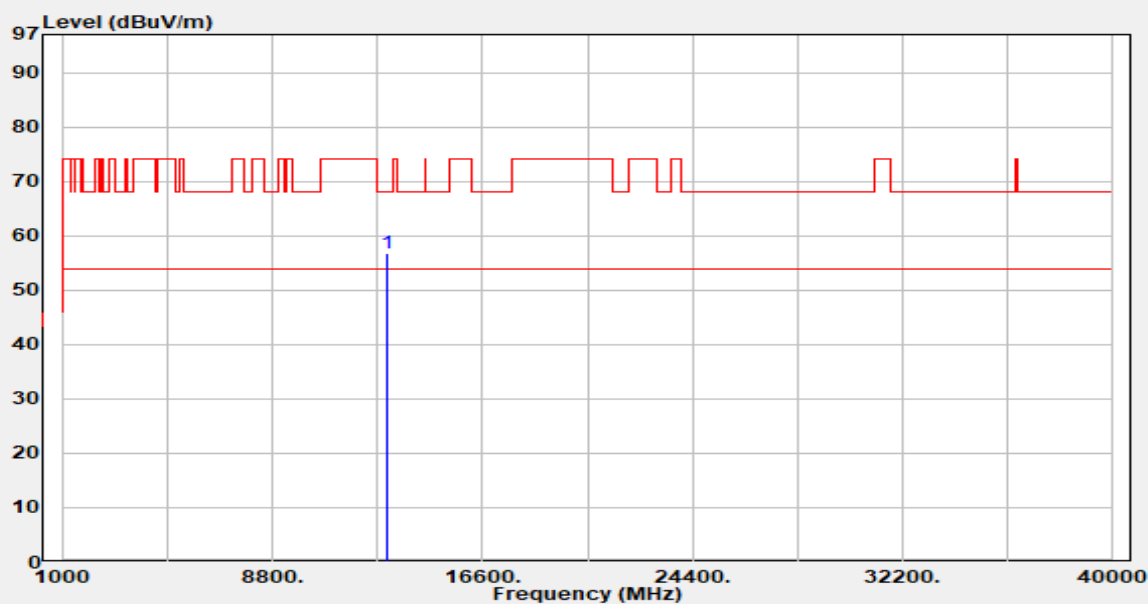
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13010.00	Peak	33.78	22.89	56.68	68.20	-11.52

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Report Number :TERF2212002775ER
Operation Mode :802.11ax160
Test Frequency :6505 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13010.00	Peak	33.94	22.89	56.83	68.20	-11.37

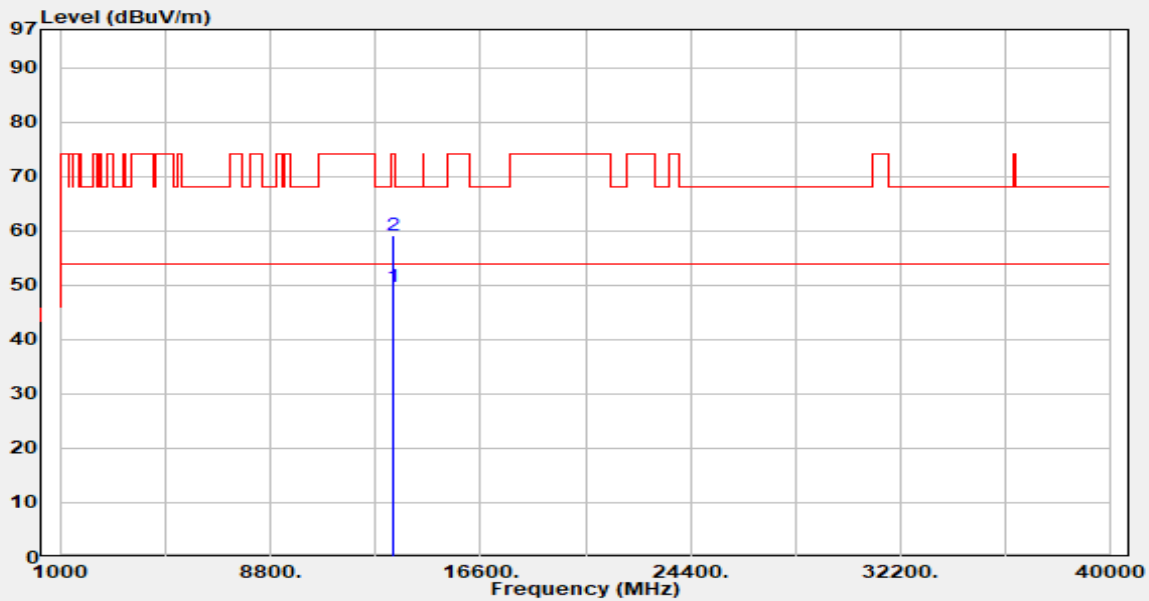
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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6665 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



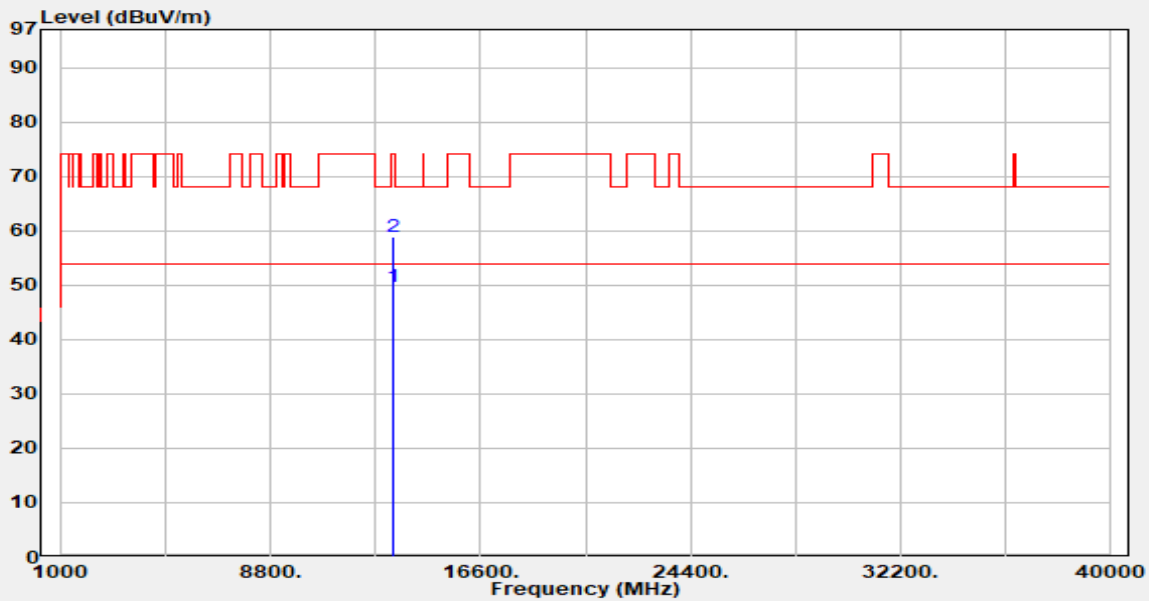
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13330.00	Average	25.71	23.90	49.61	54.00	-4.39
13330.00	Peak	35.17	23.90	59.07	74.00	-14.93

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6665 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Horizontal
 Engineer :GN Lin



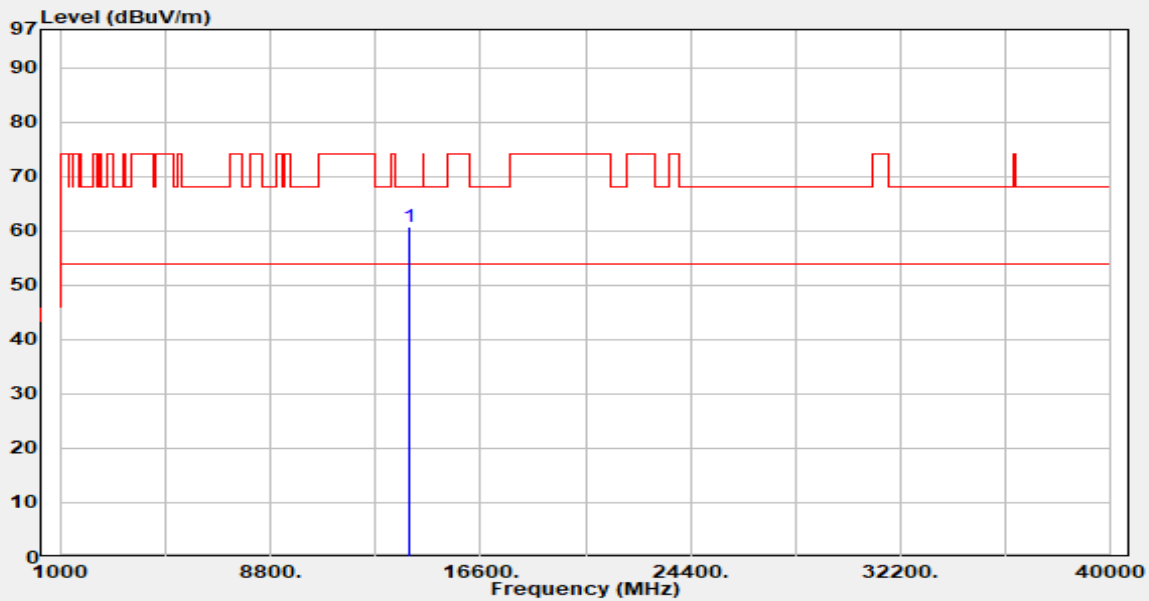
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13330.00	Average	25.76	23.90	49.66	54.00	-4.34
13330.00	Peak	35.07	23.90	58.97	74.00	-15.03

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Report Number :TERF2212002775ER
 Operation Mode :802.11ax160
 Test Frequency :6985 MHz
 Test Mode :Tx
 EUT Pol :NB Plane

Test Site :SAC 1
 Test Date :2023-01-03
 Temp./Humi. :23.2/65
 Antenna Pol. :Vertical
 Engineer :GN Lin



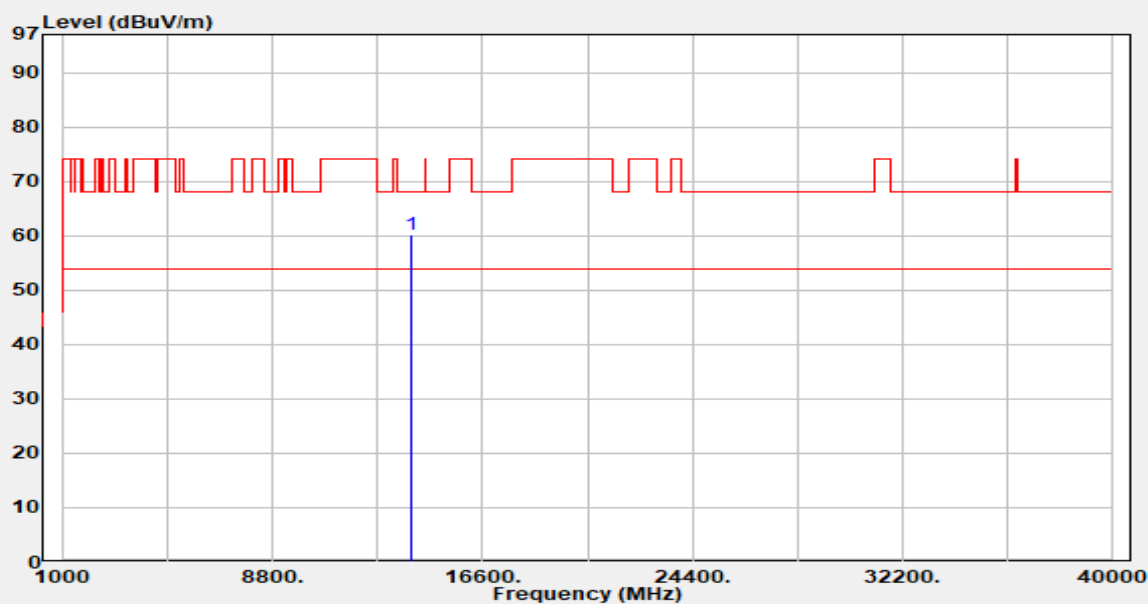
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13970.00	Peak	35.62	25.14	60.76	68.20	-7.44

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Report Number :TERF2212002775ER
Operation Mode :802.11ax160
Test Frequency :6985 MHz
Test Mode :Tx
EUT Pol :NB Plane

Test Site :SAC 1
Test Date :2023-01-03
Temp./Humi. :23.2/65
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
13970.00	Peak	34.98	25.14	60.13	68.20	-8.07

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8 ANTENNA REQUIREMENT

8.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

8.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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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

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