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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, ISED RSS-248.

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

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

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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

<u> </u>	
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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Modulation & Data Rate

	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation type:	256QAM for OFDM in 802.11ac
	256QAM ,1024QAM for OFDMA in 802.11ax
	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
Transition Rate:	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)
				5925~6425	0.87
	AWAN	NA = i =		6425~6525	0.81
		Main		6525~6875	0.92
PIFA			AYF6Y-200005	6875~7125	0.91
PIFA			(DC33002SE00)	5925~6425	2.34
		A		6425~6525	0.10
		Aux		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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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

Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Bood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 2	- 1W0027	
	raiper Oity, raiwari.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladyuan Oity, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

1.6 **Special Accessories**

There are no special accessories used while test was conducted.

Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

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.

EUT Exercise 2.2

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 a 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.

Radiated Emissions 2.3.2

The EUT is a 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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Test Configuration

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2.6 Control Unit(s)

Radiated Emission Test Site: SAC 1											
EQUIPMENT TYPE	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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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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45

6175

93

6415

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DESCRIPTION OF TEST MODES

Operating Frequencies

	4.1 Operating Frequencies													
			UN	-	-5 5	5925~642	25	MHz						
	201	ИНz			4	0MHz		8	0MHz					
СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)					
1	5955	49	6195		3	5965		7	5985					
5	5975	53	6215		11	6005		23	6065					
9	5995	57	6235		19	6045		39	6145					
13	6015	61	6255		27	6085		55	6225					
17	6035	65	6275		35	6125		71	6305					
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								

UNII-6 6425~6525 MHz													
2	0MHz	4	0MHz		8	0MHz		160MHz					
СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)				
97	6435	99	6445		103	6465		111	6505				
101	6455	107	6485										
105	6475	115	6525										
109	6495			•									
113	6515												

160MHz

CH

207

Freq.

(MHz)

6985

	UNII-7 6525~6875 MHz													
	201	ИНz			4	0MHz		80MHz			1			
СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)		СН			
117	6535	153	6715		123	6565		119	6545		143			
121	6555	157	6735		131	6605		135	6625		175			
125	6575	161	6755		139	6645		151	6705					
129	6595	165	6775		147	6685		167	6785					
133	6615	169	6795		155	6725		183	6865					
137	6635	173	6815		163	6765								
141	6655	177	6835		171	6805								
145	6675	181	6855		179	6845								
149	6695	185	6875											

91

6405

UNII-8 6875~7125 I										
2	0MHz		4	0MHz		80MHz				
СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)			
189	6895		187	6885		199	6945			
193	6915		195	6925		215	7025			
197	6935		203	6965						
201	6955		211	7005						
205	6975		219	7045						
209	6995		227	7085						
213	7015				_					
217	7035									
221	7055									
225	7075									
229	7095									
233	7115									

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160MHz Freq.

(MHz)

6025

6185

6345

60MHz

Freq.

(MHz)

6665

6825

CH

15

47

79

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The Worst Test Modes and Channel Details

- 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

The gevin UE is pre-scanned among below modes.

Modulation	Transmiss	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 RLI can be enabled at any given time

	e KU			d at any give	en i					
8 02.11ax			MHz			8 02.11ax			40MHz	
RU type		6-tone RU		2-tone RU		RU type		tone RU		52-tone RU
	RU0	[-121: -96]	RU37	[-121: -70]			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		RU index and	RU15	[164: 189]	RU52	N/A
	RU16	N/A					RU16	[192: 217]		
RU index and	RU17	N/A	1	06-tone RU			RU17	[218: 243]	1	06-tone RU
subcarrier	RU18	N/A	RU53	[-122: -17]		subcarrier	RU18	N/A	RU53	[-243: -138]
range	RU19	N/A	RU54	[17: 122]		range	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	2-	42-tone RU			RU27	N/A	2	42-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	4	84-tone RU
ŀ	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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8 02.11ax		80)MHz	
RU type	20	6-tone RU		2-tone RU
	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]	1	06-tone RU
RU index and	RU17	[-43: -18]	RU53	[-499: -394]
subcarrier	RU18	[-16: -4, 4: 16]	RU54	[-365: -260]
range	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]	2	42-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]	4	84-tone RU
	RU31	[340: 365]	RU65	[-500: -17]
	RU32	[367: 392]	RU66	[17: 500]
	RU33	[394: 419]	9	96-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

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RADIATED EMISSION TEST (BELOW 1 GHz)										
MODE	FREQUENC	AVAILABLE	TESTED	MODULATI	DATA RATE	ANTENNA				
MODE	Y BAND	CHANNEL	CHANNEL	ON	(Mbps)	PORT				
	5955~6415	1 to 93	45			2Tx				
802.11ax HE20	6435~6515	97 to 113	105	OFDM	MCS0					
002.11ax_FE20	6535~6875	117 to 185	149	OFDIVI	IVICOU					
	6895~7115	189 to 233	229							

	RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENC	AVAILABLE	TESTED	MODULATI	RU	DATA RATE	ANTENNA	
WODL	Y BAND	CHANNEL	CHANNEL	ON	CONFIGUR	(Mbps)	PORT	
	5955~6415	1 to 93	1,45,93		FULL RU			
	6435~6515	97 to 113	97,105,113		26/0,26/8			
802.11ax_HE20	6535~6875	117 to 185	117,149,181,1 85	OFDMA	52/37,52/40 106/53,106/	MCS0	2Tx	
	6995~7115	209 to 233	209,229,233		54			
	5965~6405	3 to 91	3,43,91		FULL RU 242/61,242/ 62			
802.11ax_HE40	6445~6525	99 to 115	99,107,115	OFDMA		MCS0	2Tx	
002.11ax_11L40	6685~6845	147 to 179	147,179	OFDIVIA		WIOOU	217	
	6885~7085	187 to 227	187,227		02			
	5985~6385	7 to 87	7,39,87		FULL RU 484/65,484/	MCS0		
802.11ax_HE80	6465	103	103	OFDMA			2Tx	
002.1187_11600	6545~6865	119 to 183	119,135,183	OI DIVIA	66	WIOOU	217	
	6945~7025	199 to 215	199,215		00			
	6025~6345	15 to 79	15,79		FULL RU			
802.11ax HE160	6505	111	111	OFDMA			2Tx	
002.11ax_11E100	6665	143	143	OFDIVIA	484/65,484/ 66		Z1X	
	6985	207	207		00			

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								
	+/-	2.8	dB	9kHz~30MHz				
Polarization: Vertical	+/-	4.82	dB	30MHz - 1000MHz				
Polarization: Vertical	+/-	4.37	dB	1GHz - 18GHz				
	+/-	4.21	dB	18GHz - 40GHz				
	+/-	2.8	dB	9kHz~30MHz				
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz				
Folarization: Horizontal	+/-	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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MEASUREMENT EQUIPMENT USED

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	EMI Test Receiver R&S		100759	08/22/2022	08/21/2023						
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023						
Pre-Amplifier	НР	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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UNDESIRABLE RADIATED EMISSIONS

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)	Peak: 88.2 (dBμV/m)
AV: -27 (dBm/MHz)	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

201011 10 4114 1004110404 111111							
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:

The lower limit shall apply at the transition frequencies.

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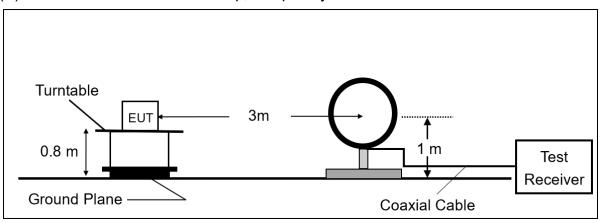


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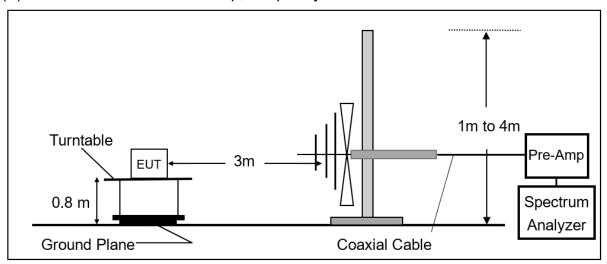


7.2 Test Setup

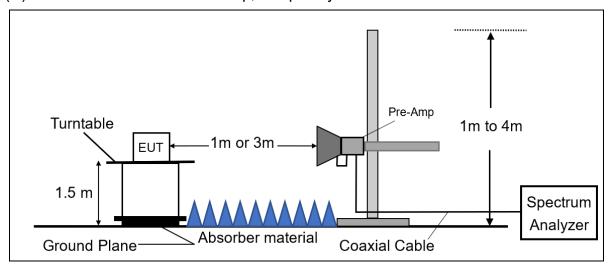
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 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 emissions.
- Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
- 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 ≥ 1/T (Duty cycle < 98%) for **Average** Detector.
- 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.

Field Strength Calculation

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

FS = RA + AF + CL - AG

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

Actual $FS(dB\mu V/m) = SPA$. Reading level($dB\mu V$) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/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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Radiated Spurious Emission Measurement Result

7.6.1 **Spurious Emission**

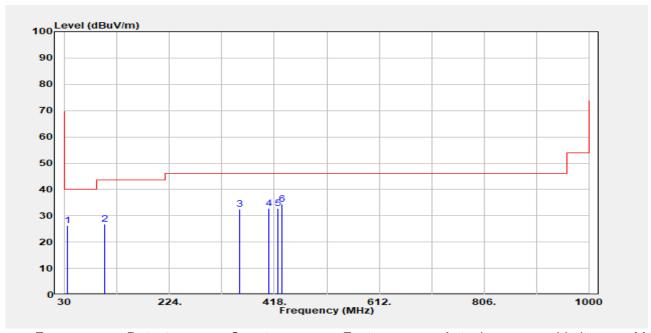
Report Number :TERF2212002775ER **Test Site** :SAC 1

Operation Mode :802.11ax20 **Test Date** :2023-01-03

Test Frequency :6175 MHz Temp./Humi. :23.2/65

Test Mode Antenna Pol. :VERTICAL :Tx

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	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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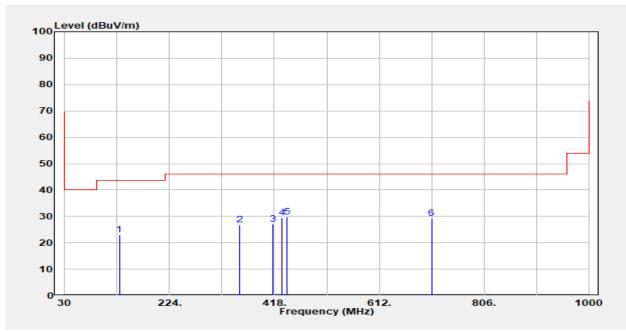
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6175 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :HORIZONTAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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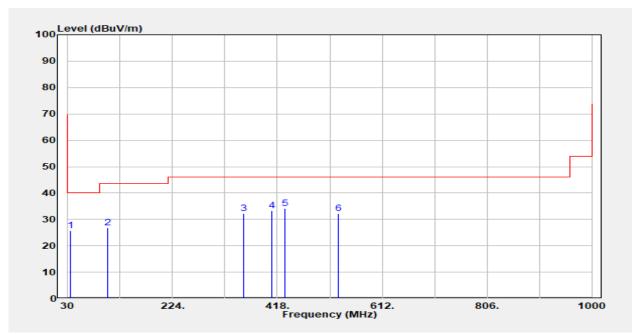
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6475 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :VERTICAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	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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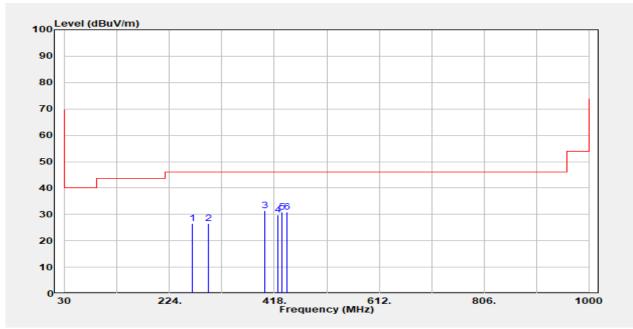
Report Number :TERF2212002775ER **Test Site** :SAC 1

:802.11ax20 :2023-01-03 **Operation Mode Test Date**

Test Frequency :6475 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :HORIZONTAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	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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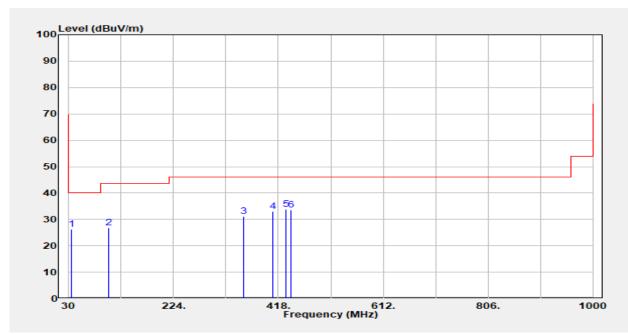
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6695 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :VERTICAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	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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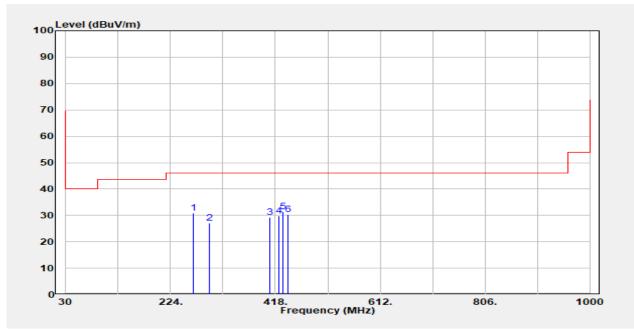
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6695 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :HORIZONTAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum	Factor	Actual	Limit	Margin
N 41 1—		Reading Level	٩D	FS	@3m	٩D
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	<u>dB</u>
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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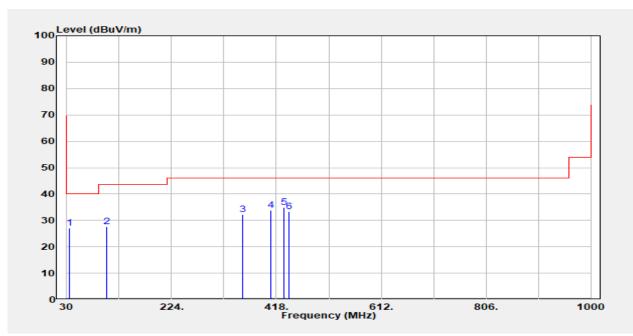
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :7095 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :VERTICAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	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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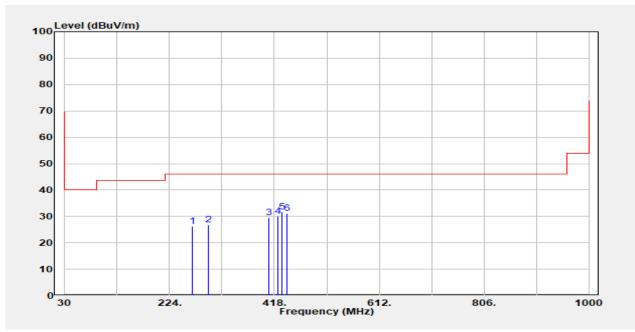
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :7095 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :HORIZONTAL

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	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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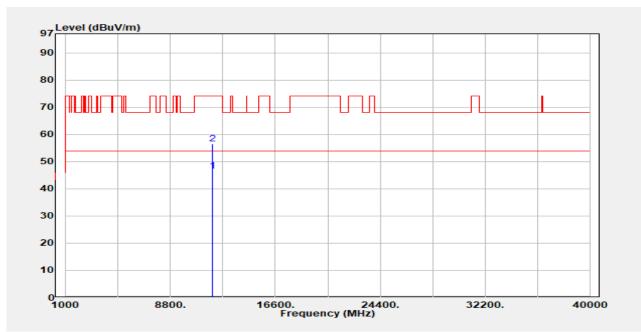
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :5955 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBuV	dB	dBµV/m	dBµV/m	dB
			<u> </u>			
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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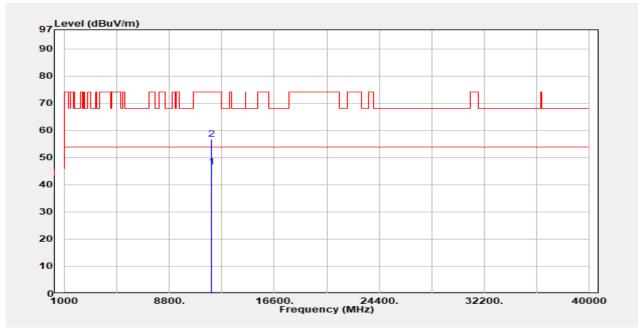
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :5955 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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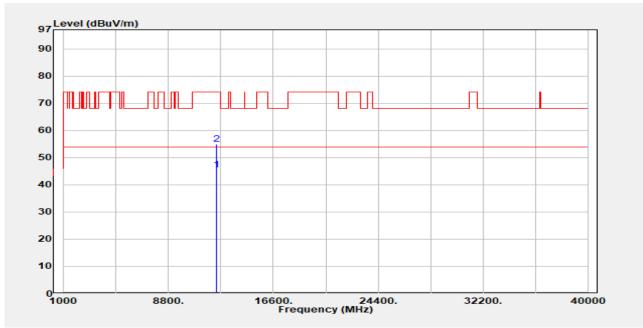
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6175 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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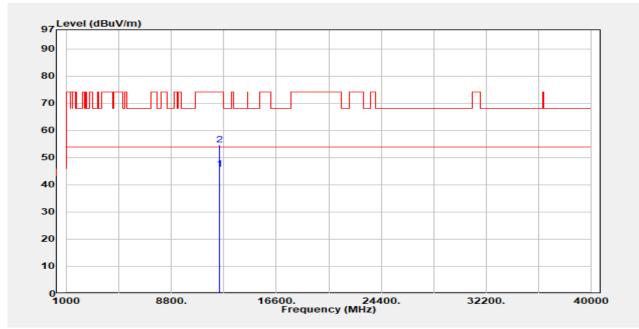
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Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6175 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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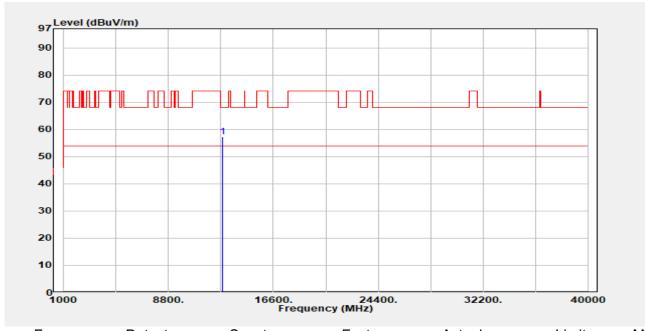
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6415 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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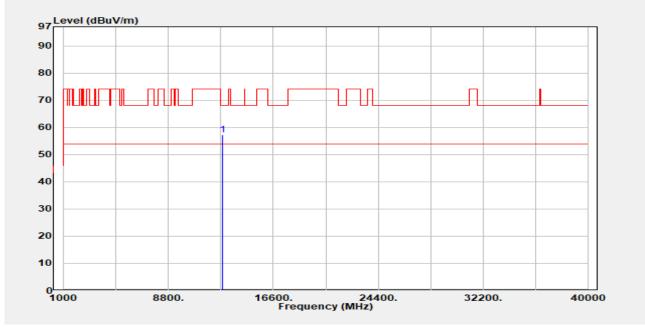
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :6415 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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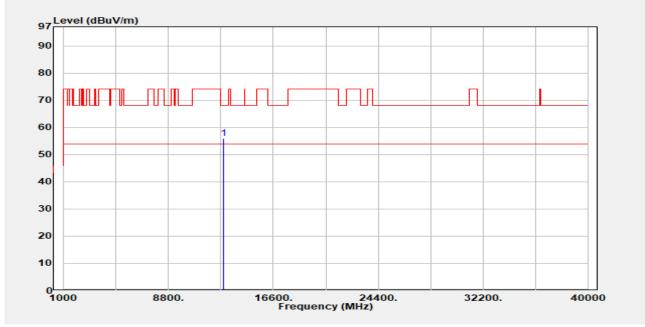
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6435 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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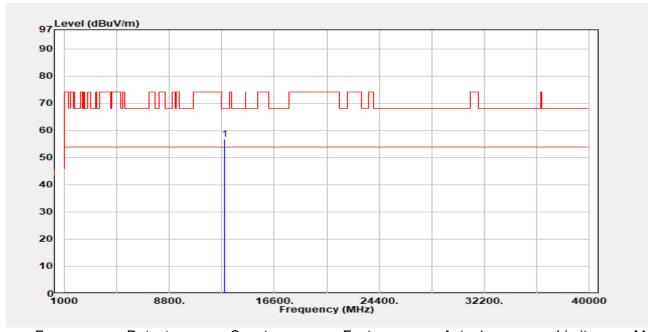
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6435 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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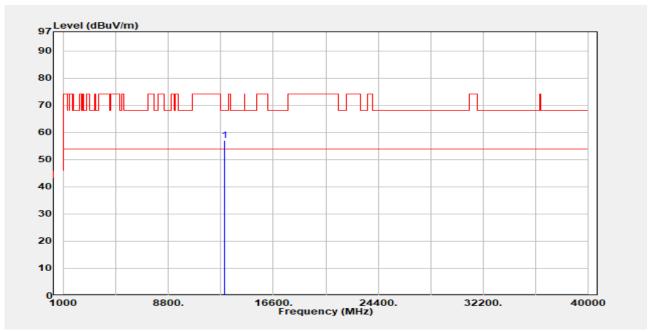
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6475 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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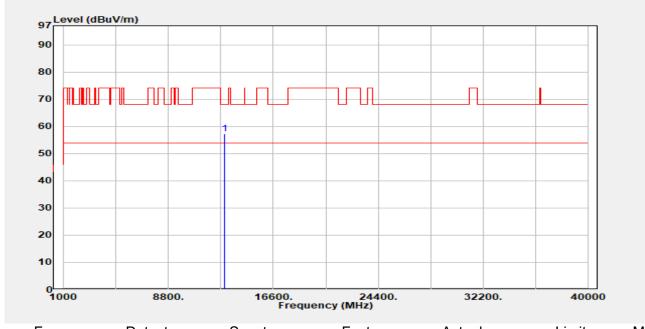
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Operation Mode Test Date :2023-01-03 :802.11ax20

Test Frequency :6475 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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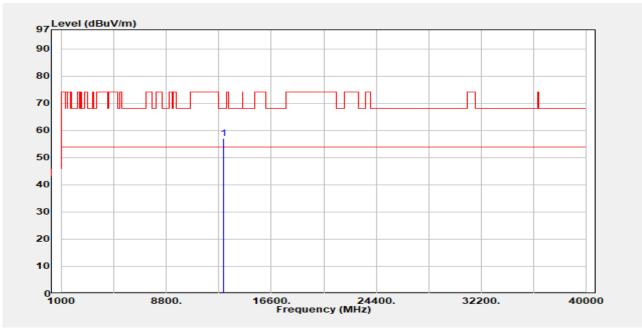
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :6515 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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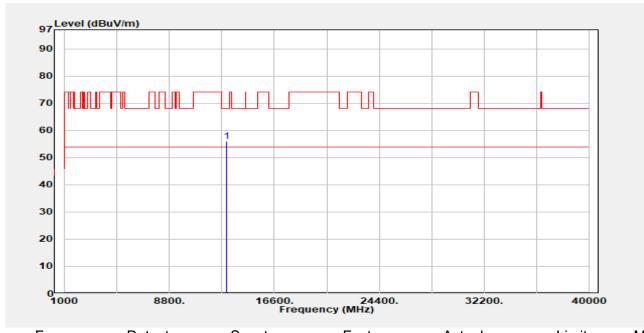
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :6515 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



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

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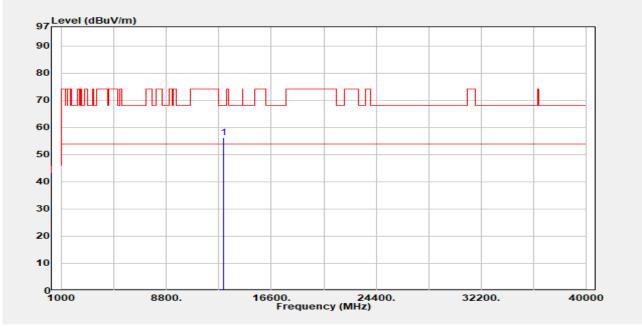
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :6535 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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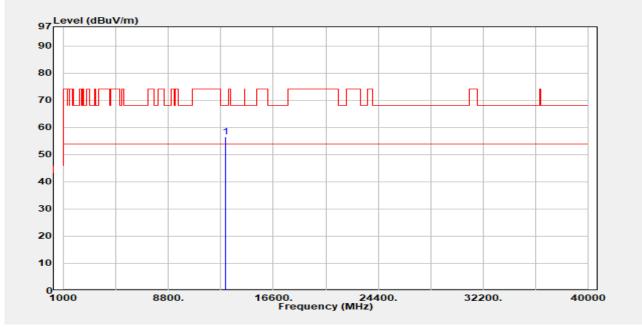
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6535 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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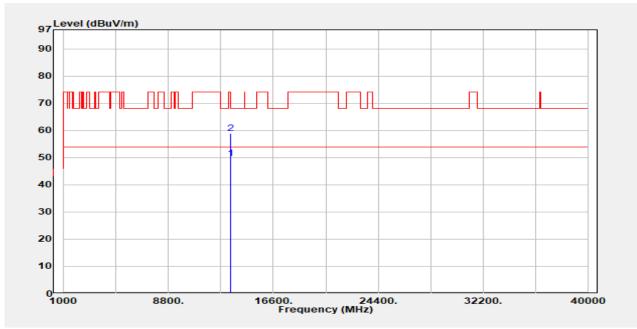
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency :6695 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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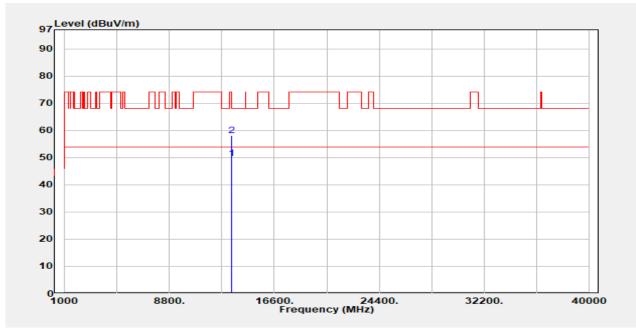
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6695 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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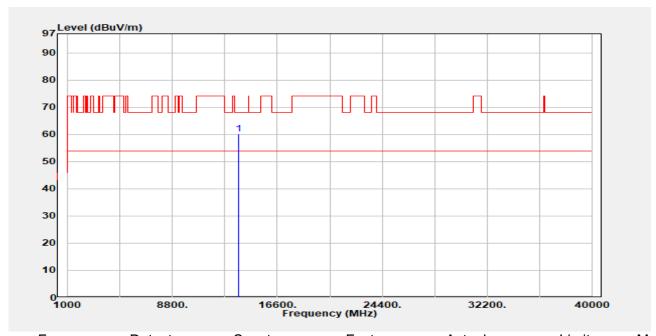
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :6855 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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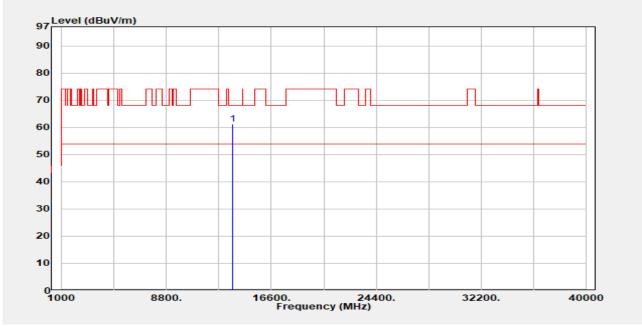
Report Number **Test Site** :SAC 1 :TERF2212002775ER

Operation Mode Test Date :2023-01-03 :802.11ax20

Test Frequency Temp./Humi. :6855 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency :6875 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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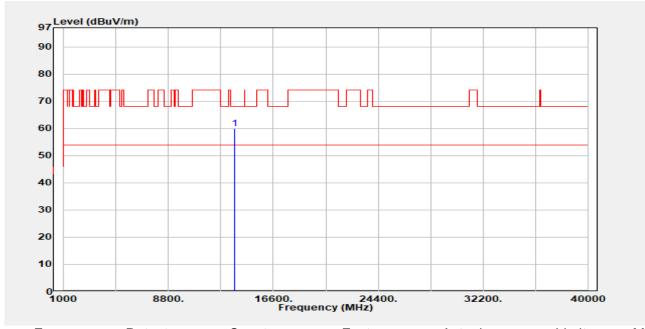
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6875 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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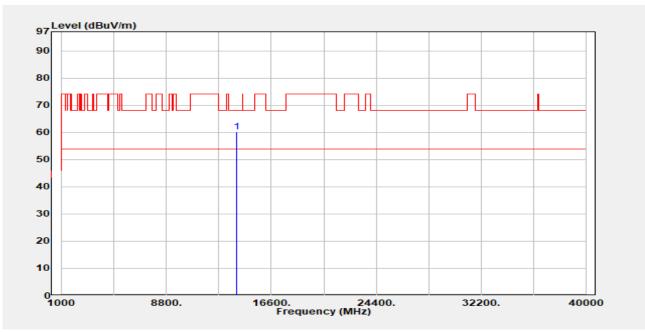
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency :6995 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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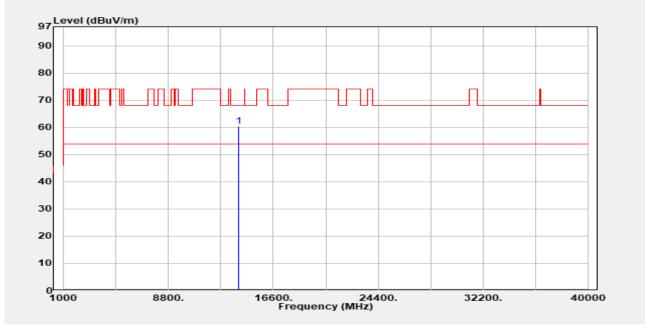
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :6995 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
13990.00	Peak	35.31	25.22	60.53	68.20	-7.67

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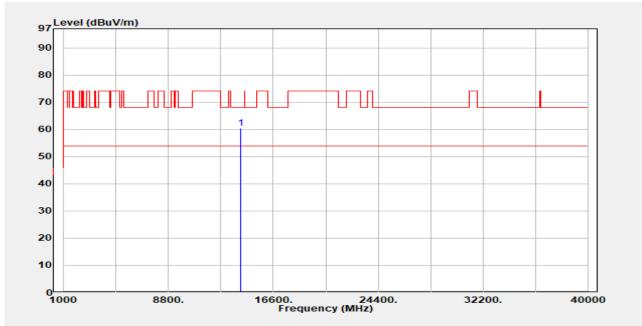
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :7095 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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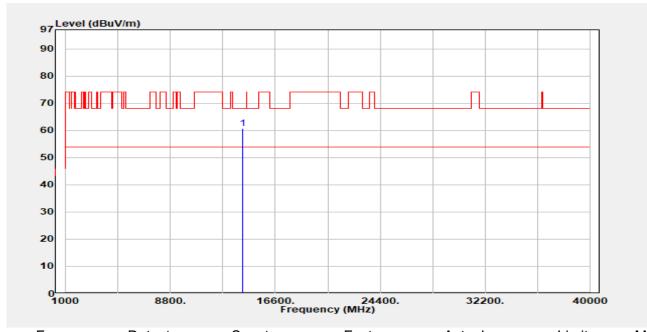
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax20 Test Date :2023-01-03

Test Frequency :7095 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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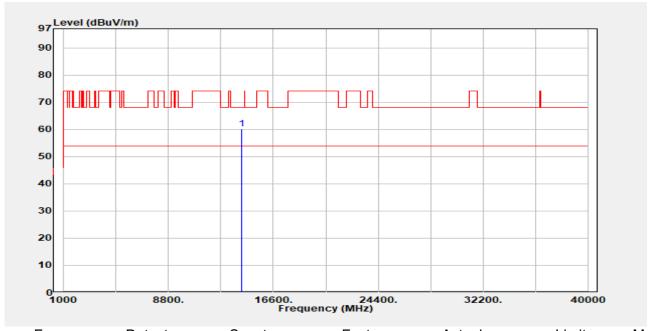
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency :7115 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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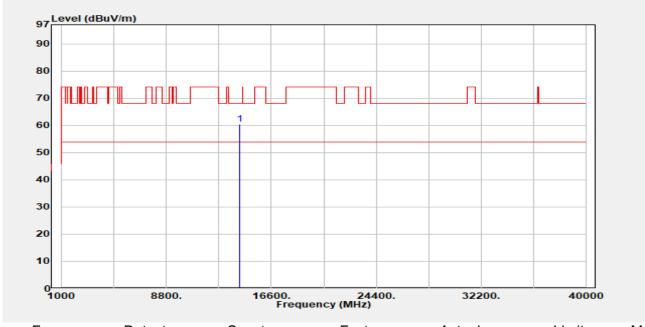
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax20

Test Frequency Temp./Humi. :7115 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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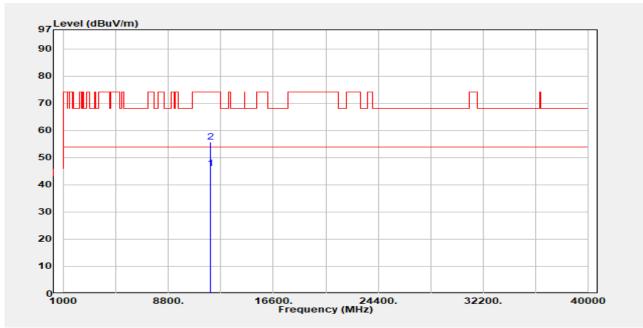
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :5965 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	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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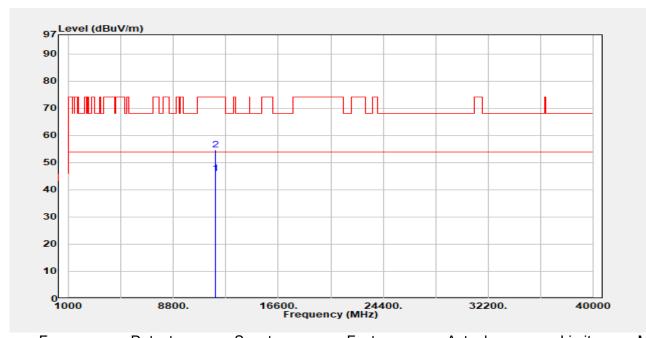
Report Number :TERF2212002775ER **Test Site** :SAC 1

:2023-01-03 **Operation Mode** :802.11ax40 **Test Date**

Test Frequency Temp./Humi. :5965 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	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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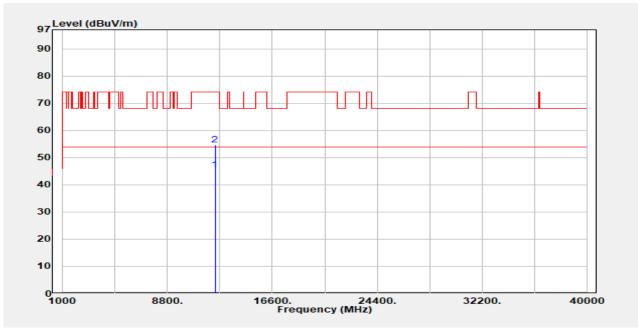
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6165 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	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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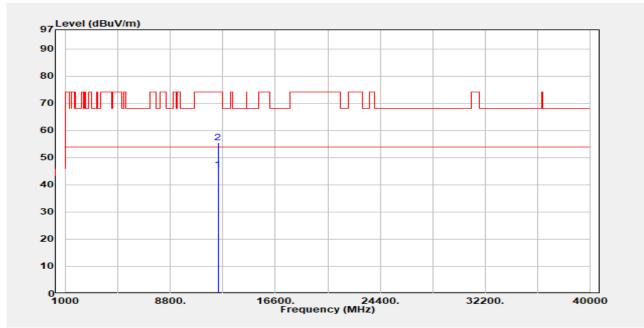
Report Number **Test Site** :SAC 1 :TERF2212002775ER

Operation Mode Test Date :2023-01-03 :802.11ax40

Test Frequency Temp./Humi. :6165 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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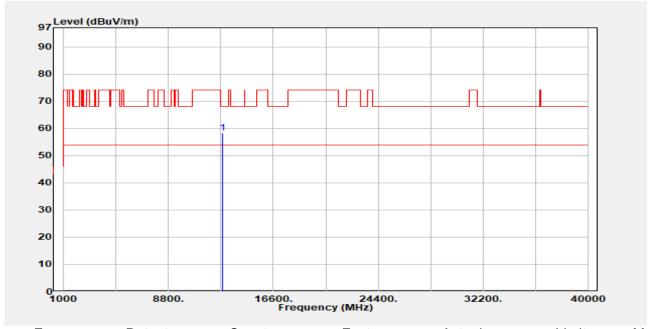
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6405 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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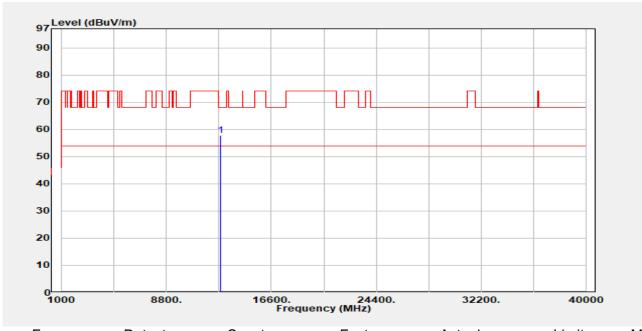
Report Number **Test Site** :SAC 1 :TERF2212002775ER

Operation Mode Test Date :2023-01-03 :802.11ax40

Test Frequency Temp./Humi. :6405 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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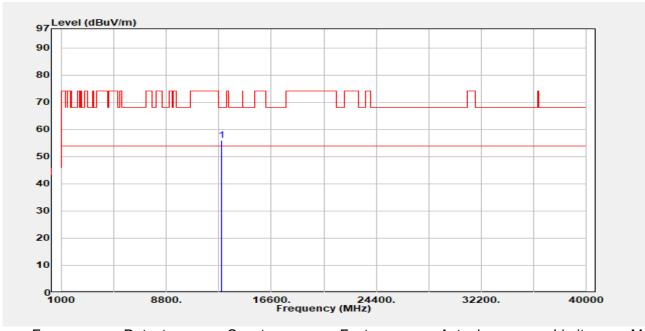
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax40

Test Frequency Temp./Humi. :6445 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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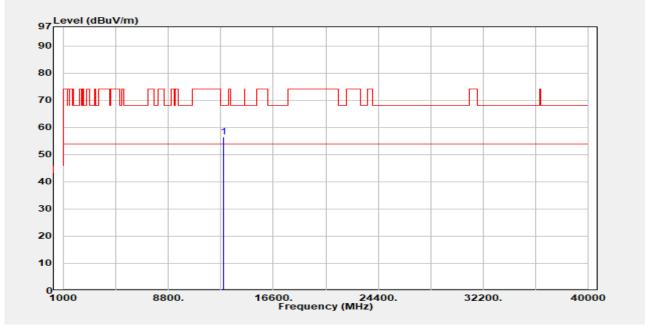
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6445 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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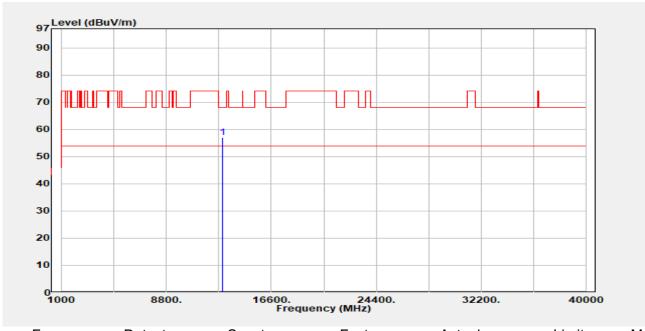
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6485 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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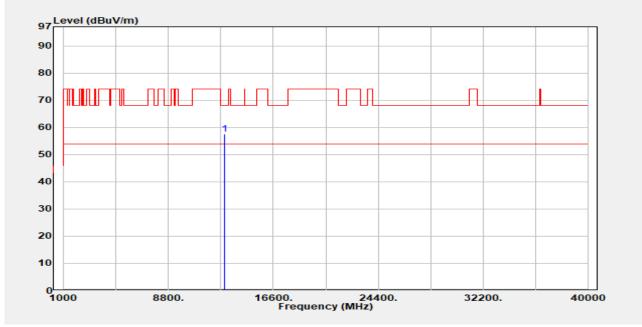
Report Number **Test Site** :SAC 1 :TERF2212002775ER

Operation Mode Test Date :2023-01-03 :802.11ax40

Test Frequency Temp./Humi. :6485 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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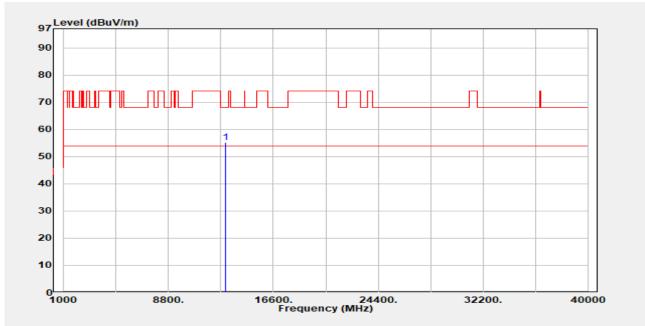
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6525 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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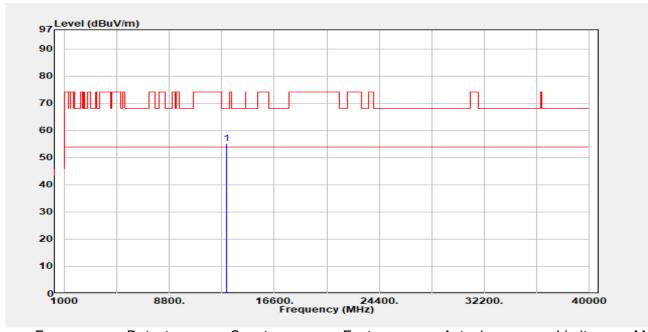
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6525 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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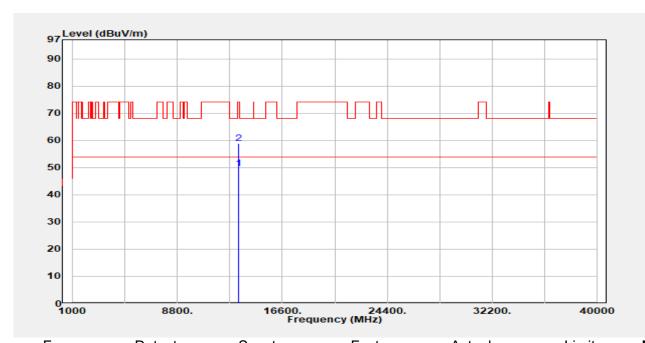
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6685 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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
	13370.00	Mode MHz PK/QP/AV 13370.00 Average	Mode Reading Level MHz PK/QP/AV dBμV 13370.00 Average 25.71	Mode Reading Level MHz PK/QP/AV dBμV dB 13370.00 Average 25.71 24.00	Mode PK/QP/AV Reading Level dBμV FS dBμV/m 13370.00 Average 25.71 24.00 49.71	Mode PK/QP/AV Reading Level dBμV FS dBμV/m @3m dBμV/m 13370.00 Average 25.71 24.00 49.71 54.00

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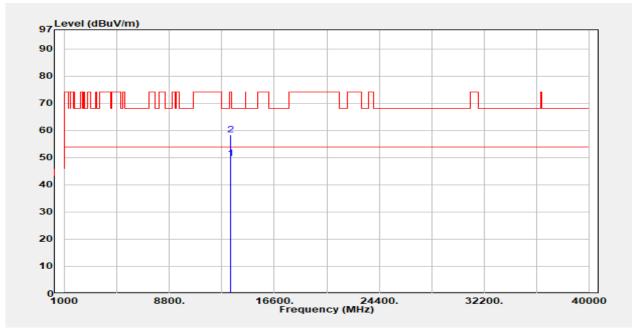
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Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6685 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	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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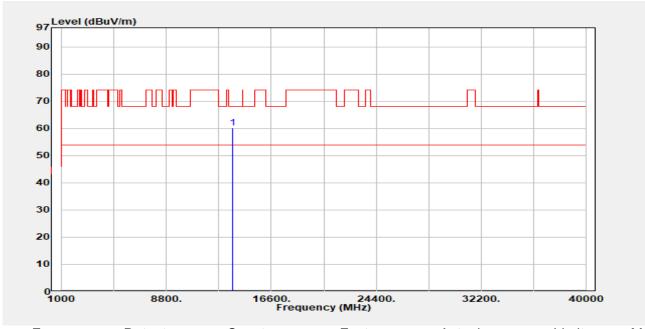
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6845 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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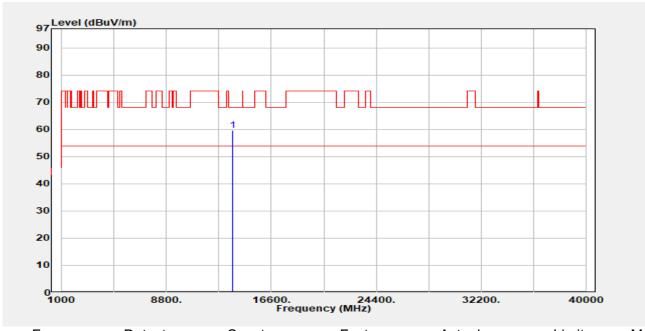
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :6845 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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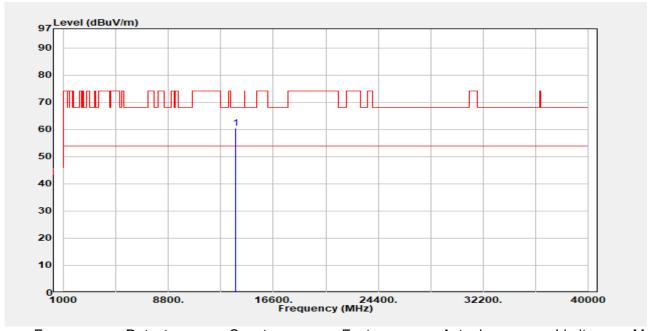
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode** :802.11ax40 **Test Date**

Test Frequency Temp./Humi. :6885 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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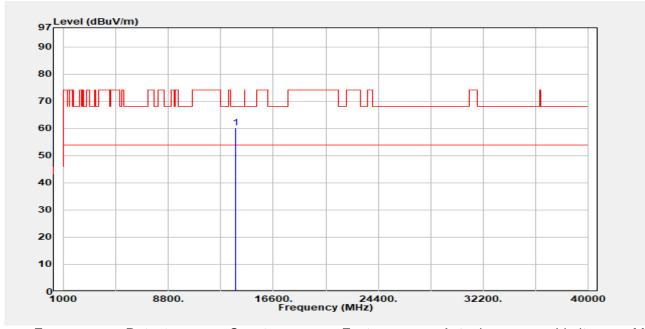
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode** :802.11ax40 **Test Date**

Test Frequency Temp./Humi. :6885 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax40 Test Date :2023-01-03

Test Frequency :7085 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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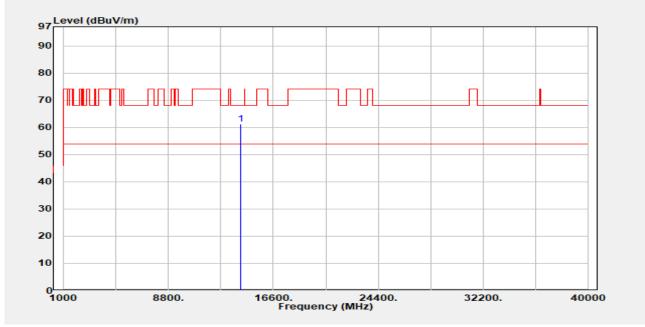
Report Number :TERF2212002775ER **Test Site** :SAC 1

:2023-01-03 **Operation Mode** :802.11ax40 **Test Date**

Test Frequency :7085 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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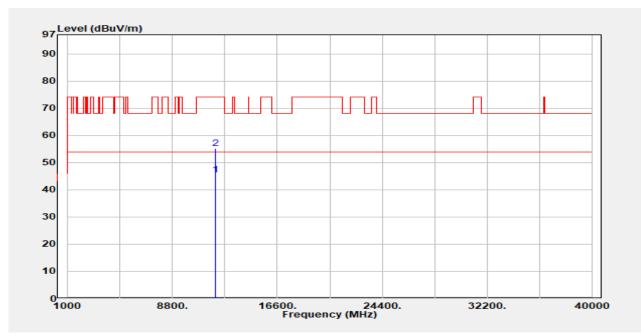
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :5985 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
11970.00	Average	24.63	20.85	45.48	54.00	-8.52
11970.00	Peak	34.29	20.85	55.14	74.00	-18.86

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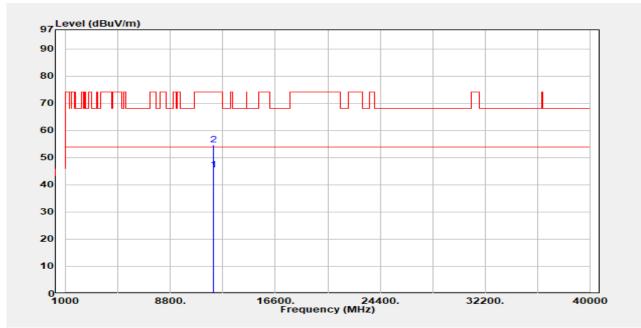
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :5985 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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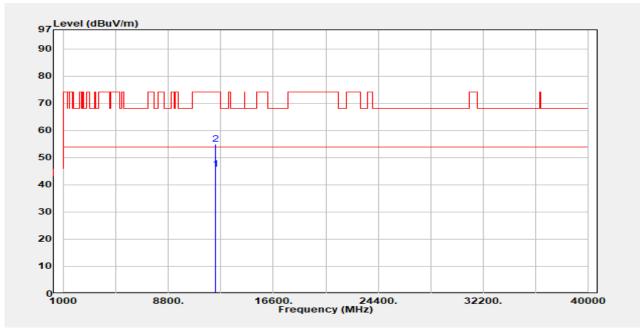
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :6145 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	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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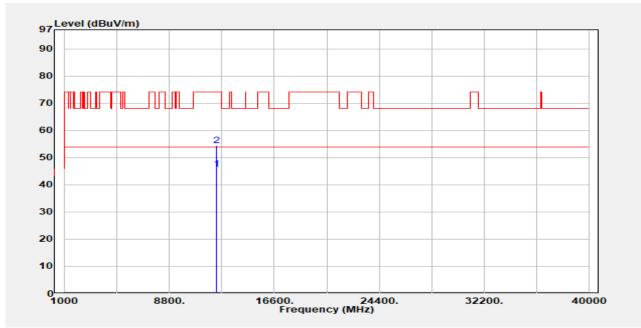
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Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :6145 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	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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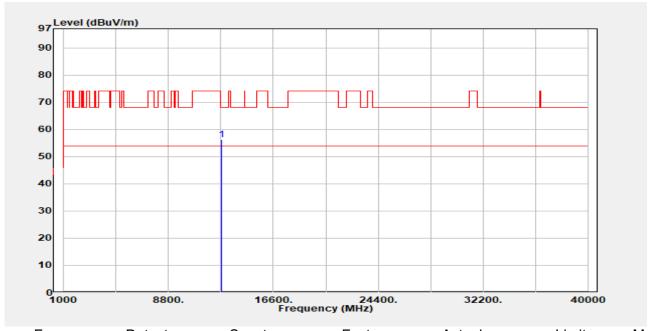
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency Temp./Humi. :6385 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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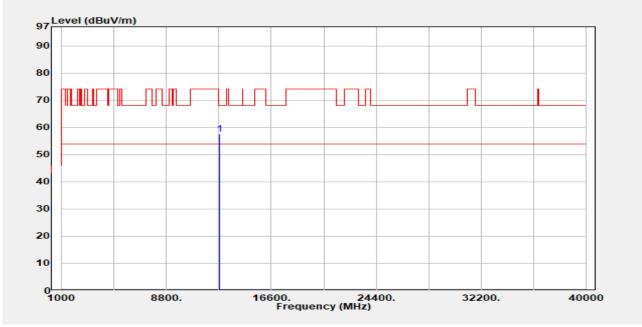
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Operation Mode Test Date :2023-01-03 :802.11ax80

Test Frequency Temp./Humi. :6385 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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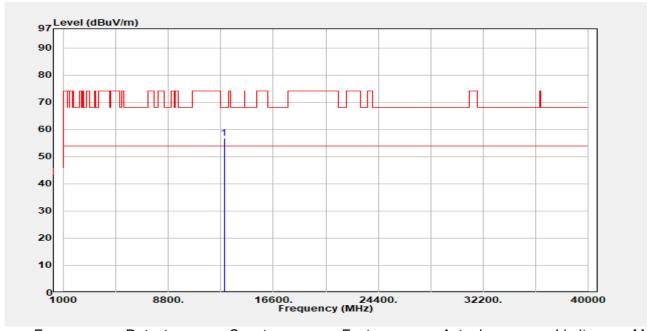
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :6465 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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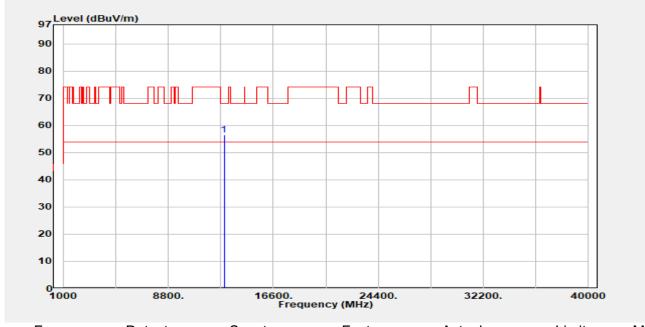
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Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :6465 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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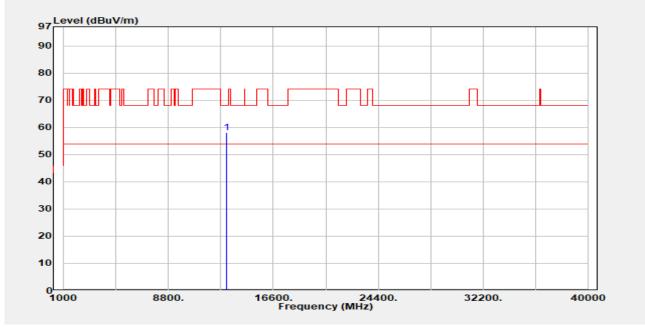
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency Temp./Humi. :6545 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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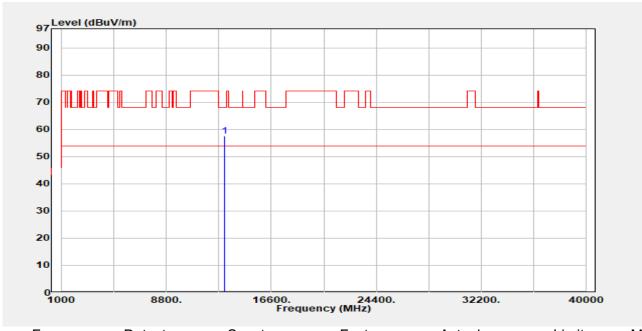
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:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency Temp./Humi. :6545 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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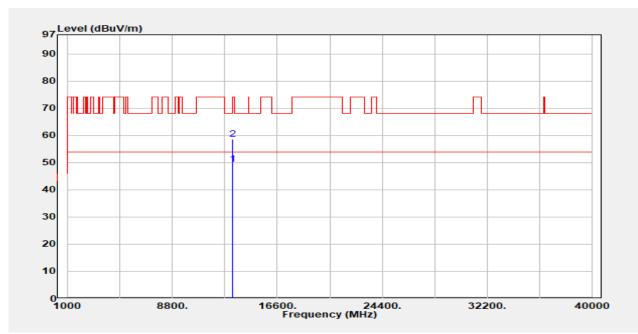
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency :6625 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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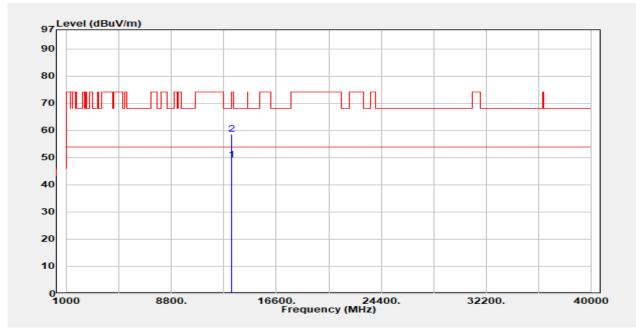
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :6625 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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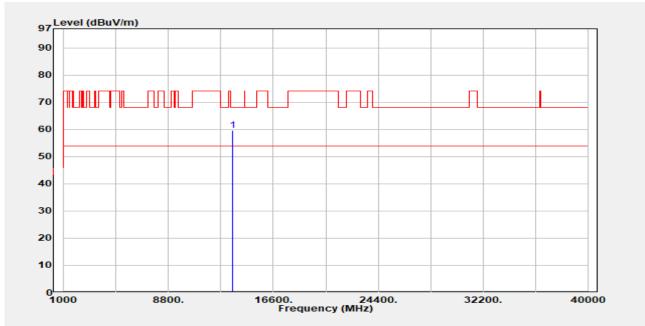
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency :6785 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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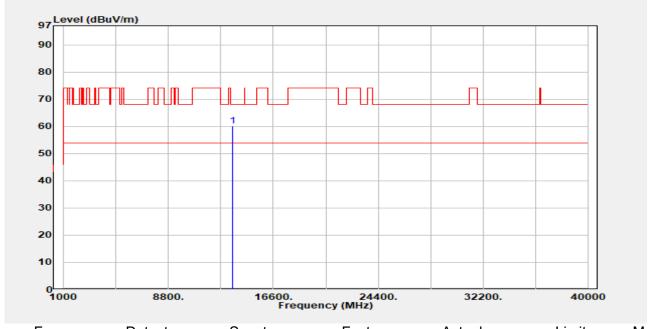
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:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency :6785 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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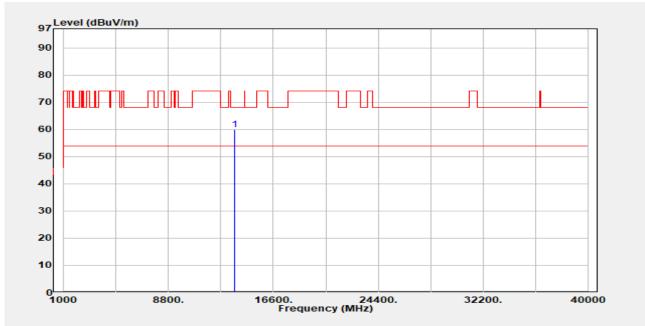
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency Temp./Humi. :6865 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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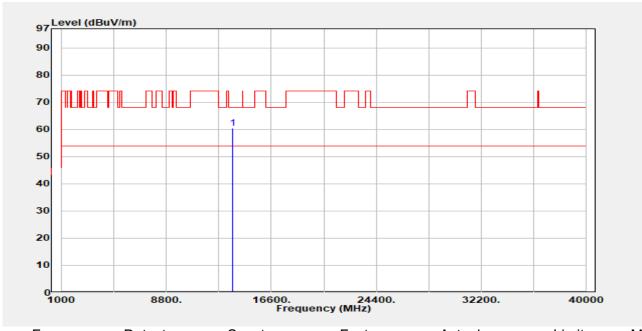
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency Temp./Humi. :6865 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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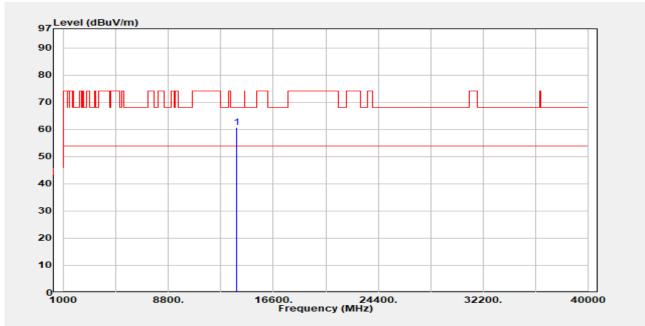
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax80

Test Frequency Temp./Humi. :6945 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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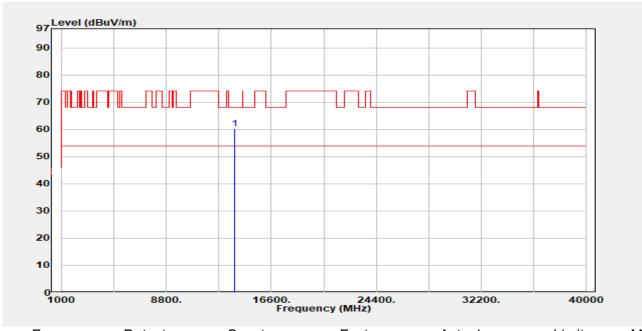
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Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :6945 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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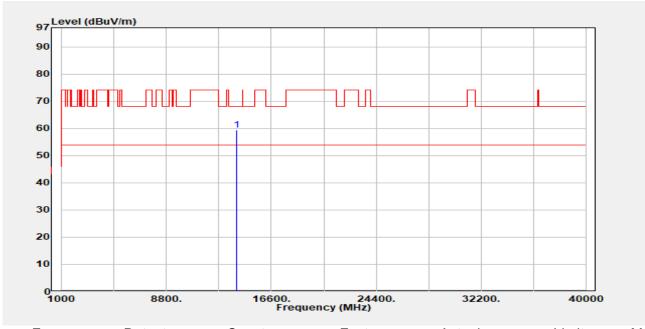
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :7025 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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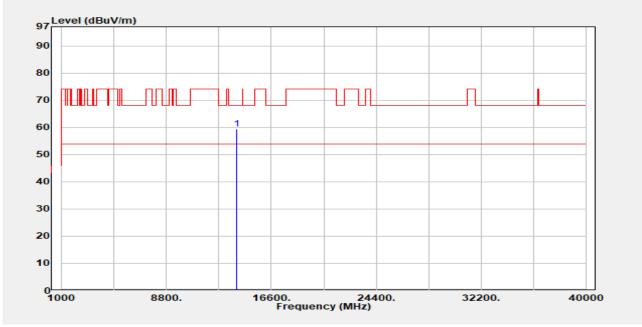
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax80 Test Date :2023-01-03

Test Frequency :7025 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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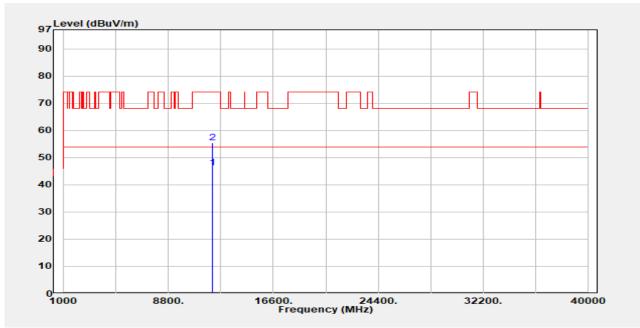
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode** :802.11ax160 **Test Date**

Test Frequency :6025 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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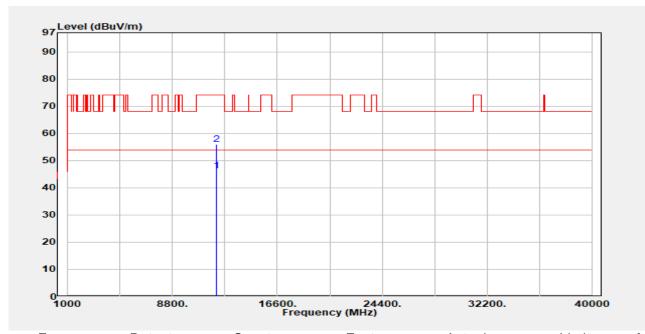
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode** :802.11ax160 **Test Date**

Test Frequency :6025 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	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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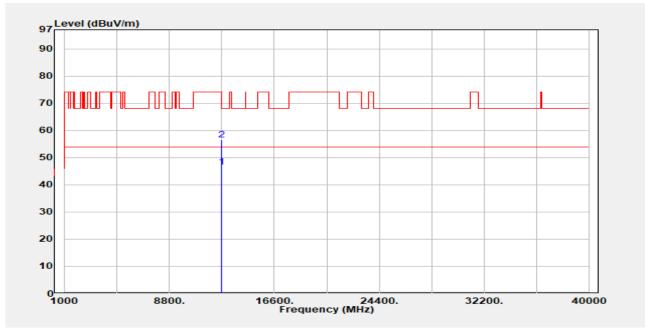
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode Test Date** :802.11ax160

Test Frequency Temp./Humi. :6345 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBμV/m	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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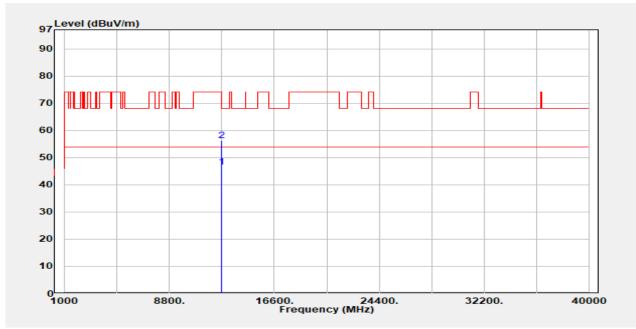
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax160 Test Date :2023-01-03

Test Frequency :6345 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	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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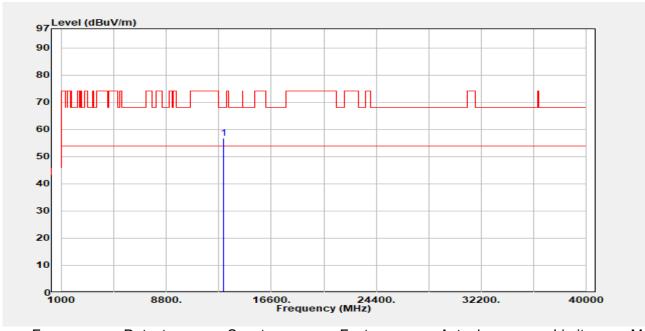
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax160 Test Date :2023-01-03

Test Frequency :6505 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



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

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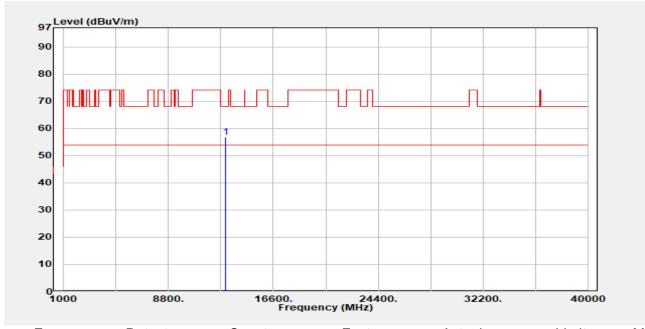
Report Number **Test Site** :SAC 1 :TERF2212002775ER

Operation Mode :802.11ax160 **Test Date** :2023-01-03

Test Frequency Temp./Humi. :6505 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



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

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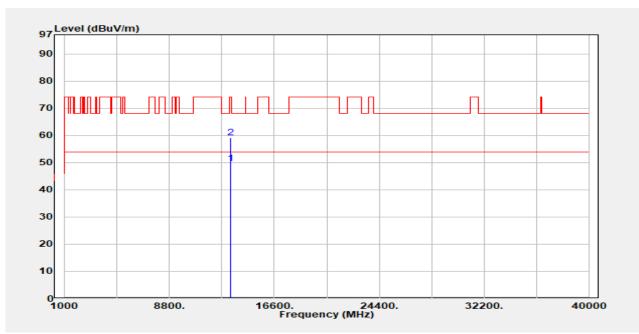
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax160 Test Date :2023-01-03

Test Frequency :6665 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	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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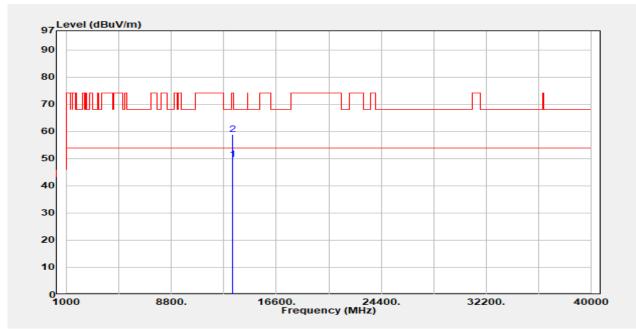
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Operation Mode :802.11ax160 **Test Date** :2023-01-03

Test Frequency Temp./Humi. :6665 MHz :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane :GN Lin Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/m	dBμV/m	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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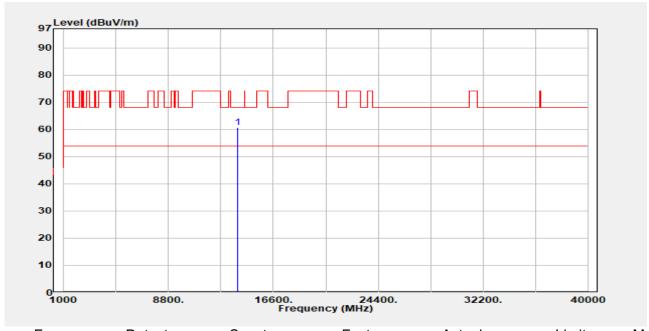
Report Number **Test Site** :SAC 1 :TERF2212002775ER

:2023-01-03 **Operation Mode** :802.11ax160 **Test Date**

Test Frequency :6985 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :NB Plane Engineer



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

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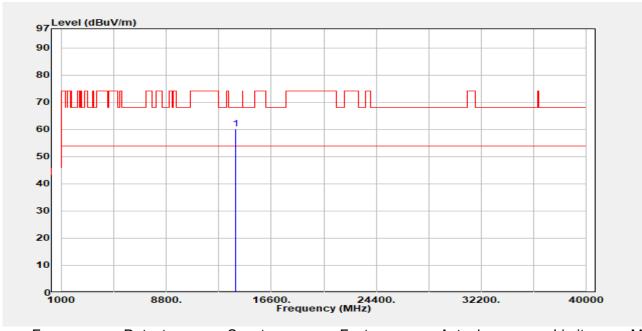
Report Number :TERF2212002775ER Test Site :SAC 1

Operation Mode :802.11ax160 Test Date :2023-01-03

Test Frequency :6985 MHz Temp./Humi. :23.2/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :GN Lin



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

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ANTENNA REQUIREMENT

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.

Antenna Connected Construction 8.2

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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