

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Silex Technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Manufacturer: Silex Technology, Inc.
2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237,
Japan

Product Name: Embedded wireless module

Brand Name: Silex Technology

Model No.: SX-PCEAX

Report Number: TERF2305001146ER

FCC ID N6C-PCEAX

Date of EUT Received: April 26, 2023

Date of Test: May 3, 2023~July 12, 2024

Issue Date: July 15, 2024

Approved By

Jim Chang

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2305001146ER	00	Original.	November 9, 2023	Susan Lin	
TERF2305001146ER	01	Revise the Firmware Version	November 23, 2023	Susan Lin	*
TERF2305001146ER	02	Revise chapter 11.3	November 28, 2023	Susan Lin	*
TERF2305001146ER	03	Revise chapter 8.5	December 21, 2023	Susan Lin	*
TERF2305001146ER	04	Remove ISED information	January 15, 2024	Susan Lin	*
TERF2305001146ER	05	Add In-band emission equipment list in page 11 and 19 and data in page 253~254	July 15, 2024	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:	Embedded wireless module
Brand Name:	Silex Technology
Model No.:	SX-PCEAX
Hardware Version:	N/A
Firmware Version:	HY103710
EUT Series No.:	1CBCEC011DAC
Power Supply:	3.3Vdc
Test Software (Name/Version):	QRCT V4.0.210.0

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 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

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	Molex	146153	5925~6425	5.025	8.035
			6425~6525	5.225	8.235
			6525~6875	5.425	8.435
			6875~7125	5.825	8.835
Dipole	Unictron Technologies Corp.	AA258	5925~6425	3.590	6.600
			6425~6525	3.630	6.640
			6525~6875	2.330	5.340
			6875~7125	1.370	4.380

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.
3. As per section F. 2). e). (ii) of FCC KDB 662911 D01
If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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1.4 Rated Power

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a 20MHz	5955~6415	24	9.49 dBm
	6435~6515	5	9.08 dBm
	6535~6875	18	9.83 dBm
	6895~7095	11	9.83 dBm

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WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
ax_HE 20MHz	5955~6415	24	8.52 dBm
	6435~6515	5	8.71 dBm
	6535~6875	18	8.42 dBm
	6895~7095	11	8.81 dBm
ax_HE 40MHz	5965~6405	12	11.53 dBm
	6445~6525	3	11.24 dBm
	6565~6845	8	11.92 dBm
	6885~7085	6	11.86 dBm
ax_HE 80MHz	5985~6385	6	14.50 dBm
	6465	1	14.43 dBm
	6545~6865	5	14.43 dBm
	6945~7025	2	14.81 dBm
ax_HE 160MHz	6025~6345	3	17.96 dBm
	6505	1	15.09 dBm
	6665~6825	2	16.98 dBm
	6985	1	17.55 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

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

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

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

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

2.3.4 CBP Test

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

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2.4 Measurement Results Explanation Example

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

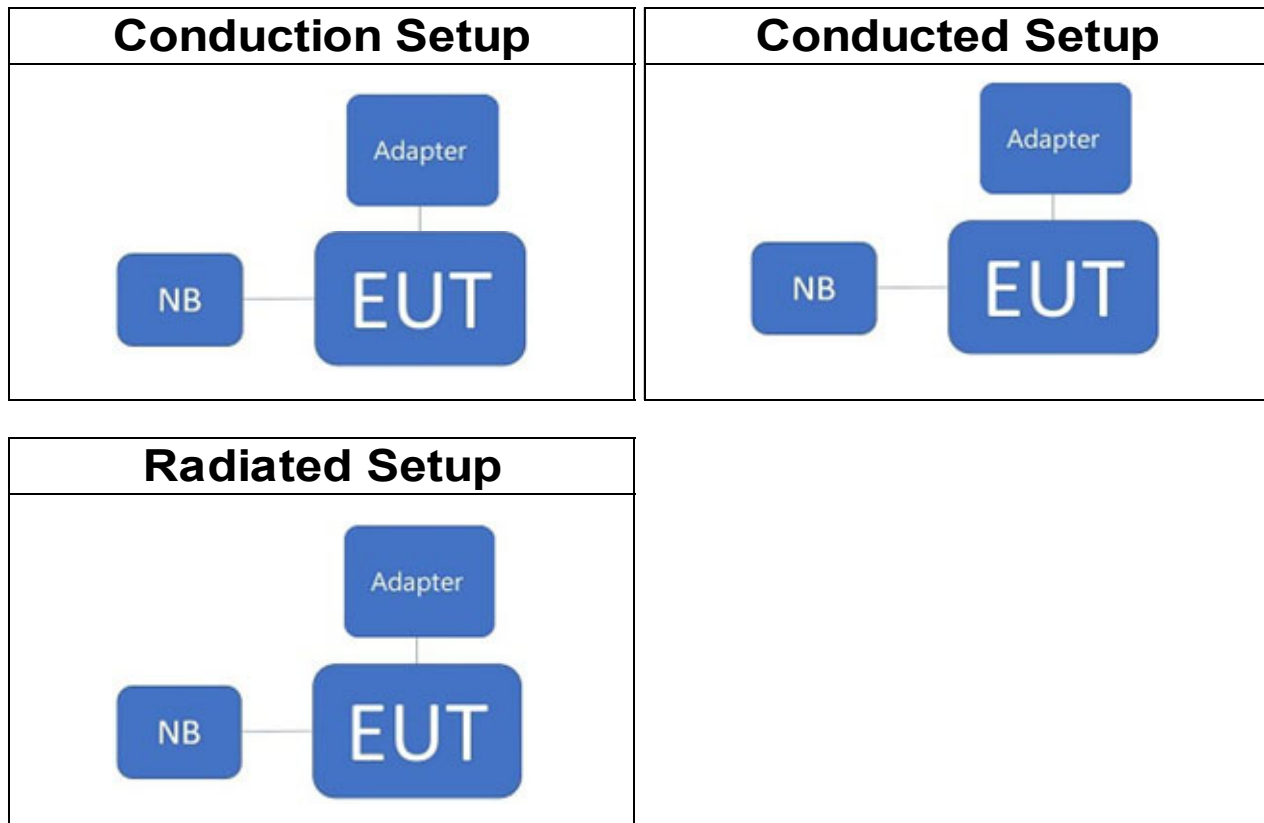
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



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2.6 Control Unit(s)

2.6.1 Conduction setup

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1D07MD 19/08	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A

2.6.2 Conducted Setup

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T430s	R9-WW5EG 13/0	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A

2.6.3 Radiated Setup

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1D07MD 19/08	N/A	N/A
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A

In-band emission

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	EDAC	EA10682N-120	N/A	N/A	N/A
Notebook	Lenovo	T430s	R9-WW5EG 13/0	N/A	N/A

2.6.4 CBP Setup

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Accece Ponit	ASUS	GT-AXE11000	LBIAJF200192	N/A	N/A
Notebook	Lenovo	L480	PF-1S9NT5	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result	Note
§15.207	AC Power Line Conducted Emission	Compliant	N
§15.407(a)(4~8)	Maximum Conducted Output Power	Compliant	
§15.407(a)(4~8)	Power Spectral Density	Compliant	
§15.205 §15.209 §15.407(b)(5), (b)(7) (b)(8), (b)(9)	Undesirable Radiated Emissions	Compliant	N
§15.407(d)(6)	contention-based protocol	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2304001051ER.

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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								

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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								Single Transmission Spatial		Multiple Transmission Spatial	
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
	802.11 n		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		2TX
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX

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

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7095	189 to 229	189,209,229			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	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				
	6895~7095	189 to 229	189,209,229				
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				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6465	111	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	45	OFDM	6	2TX
	6435~6515	97 to 113	105			
	6535~6875	117 to 185	181			
	6895~7095	189 to 229	209			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7095	189 to 229	189,209,229			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	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				
	6895~7095	189 to 229	189,209,229				
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				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
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	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/67	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	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

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

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 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
LISN	SCHWARZBECK	NSLK 8127	1040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/06/2022	10/05/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1804001	03/16/2023	03/15/2024
Power Sensor	Anritsu	MA2411B	1726104	03/16/2023	03/15/2024
Power Sensor	Anritsu	MA2411B	1726107	03/16/2023	03/15/2024
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/15/2022	06/14/2023
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/07/2023	03/06/2024
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/07/2023	03/06/2024
Attenuator	Agilent	8495B	3308A22470	12/13/2022	12/12/2023
Attenuator	HP	8494B	2812A17605	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	4	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-020	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT2W1G18G	21032900018	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT2W1G18G	18112200202	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT4W1G18G	SPCD10-010	12/13/2022	12/12/2023

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6.4 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Site Cal	SGS	SAC 2	N/A	08/31/2023	08/30/2024
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
Bandreject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/13/2022	12/12/2023
Bandreject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/13/2022	12/12/2023
Bandreject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/13/2022	12/12/2023
Bandreject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/13/2022	12/12/2023
8.6GHz High Pass Filter	Titan	T04H86002600060 S01	210619-2-7	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/23/2022	12/22/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/23/2022	12/22/2023
Coaxial Cables	EMCI	EMC104-SM-SM-1000+EMC105-SM-SM-1000+EMC105-SM-SM-1500+EMC104-SM-SM-600+EMC105-SM-SM-2000	RX Cable 9K-18G (220236+201211+20906+220237+220909)	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/31/2023	08/30/2024
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 1G (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G (220237)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G (220910)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G (220236)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G (201211)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G (220906)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G (220909)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 30M (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M (220910)	08/31/2022	08/30/2023

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In-band emission

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	23	12/12/2023	12/11/2024
Coaxial Cables	EMCI	EMC104-SM-SM-1000+EMC105-SM-SM-1000+EMC105-SM-SM-1500+EMC104-SM-SM-600+EMC105-SM-SM-2000	RX Cable 9K-18G (220236+201211+220906+220237+220909)	08/31/2023	08/30/2024
EXA Spectrum Analyzer	Agilent	N9010A	MY53400256	11/15/2023	11/14/2024
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/16/2024	02/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2023	08/30/2024
Site Cal	SGS	SAC 2	N/A	08/31/2023	08/30/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

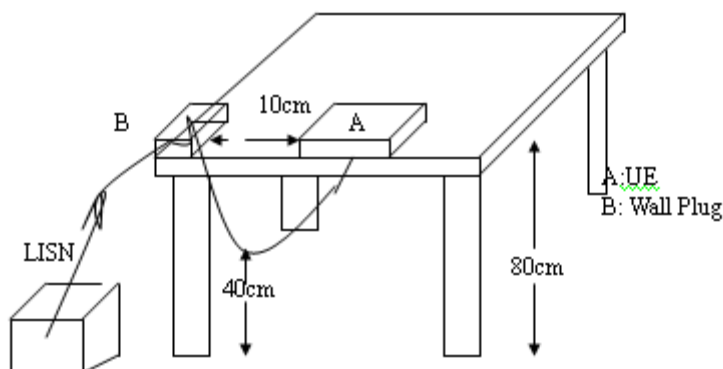
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

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7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Molex

Report Number :TERF2305001146ER

Operation Mode :WLAN6E

Power :120V/60Hz

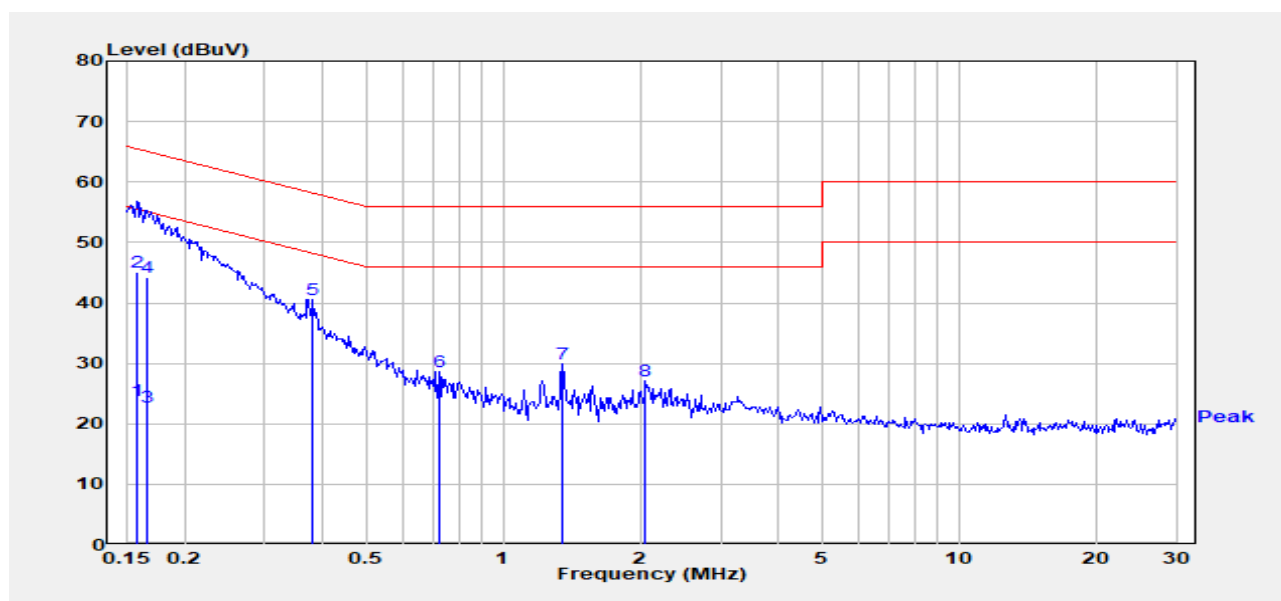
Probe :L

Test Site :Conduction 1

Test Date :2023-06-16

Temp./Humi. :24.6°C/65%

Engineer :Ricky Chen



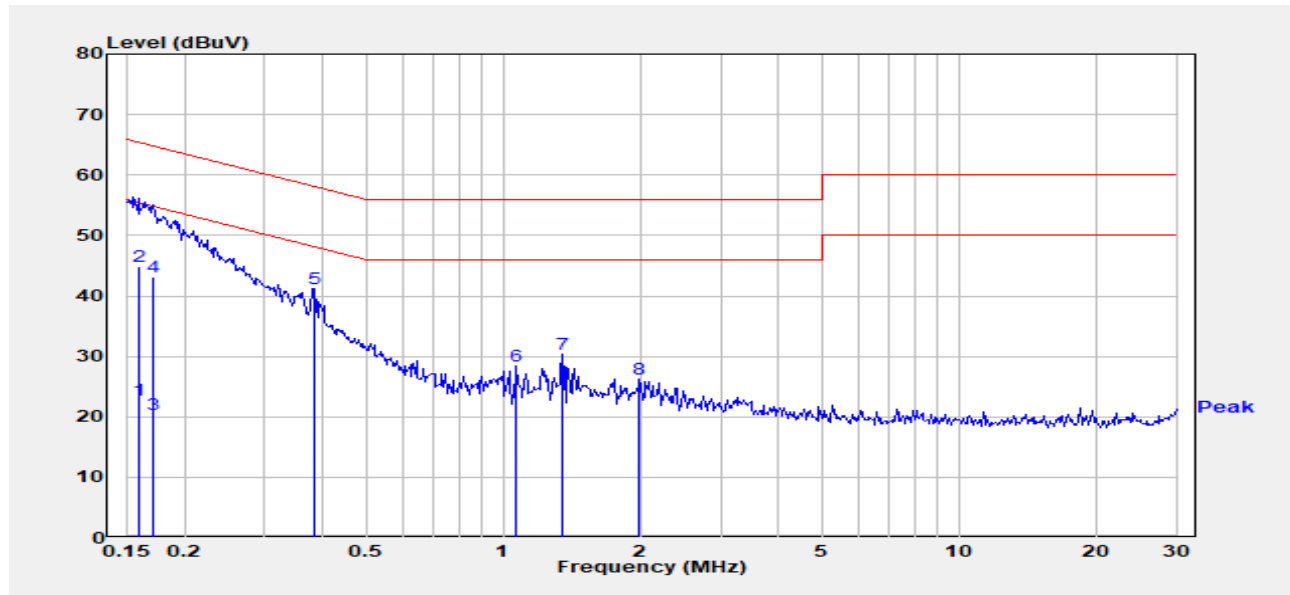
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.157	Average	13.67	10.25	23.92	55.62	-31.70
0.157	QP	34.87	10.25	45.12	65.62	-20.50
0.166	Average	12.43	10.25	22.68	55.17	-32.49
0.166	QP	34.01	10.25	44.26	65.17	-20.91
0.383	Peak	30.33	10.25	40.58	58.22	-17.64
0.724	Peak	18.41	10.31	28.72	56.00	-27.28
1.349	Peak	19.29	10.67	29.96	56.00	-26.04
2.057	Peak	16.13	11.06	27.19	56.00	-28.81

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Report Number :TERF2305001146ER
 Operation Mode :WLAN6E
 Power :120V/60Hz
 Probe :N

Test Site :Conduction 1
 Test Date :2023-06-16
 Temp./Humi. :24.6°C/65%
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.158	Average	12.41	10.25	22.66	55.55	-32.89
0.158	QP	34.73	10.25	44.98	65.55	-20.57
0.171	Average	10.12	10.25	20.37	54.92	-34.55
0.171	QP	32.83	10.25	43.08	64.92	-21.84
0.386	Peak	30.92	10.25	41.17	58.16	-16.99
1.071	Peak	17.89	10.43	28.32	56.00	-27.68
1.349	Peak	19.65	10.67	30.32	56.00	-25.68
1.995	Peak	15.12	11.08	26.20	56.00	-29.80

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Unictron

Report Number :TERF2305001146ER

Operation Mode :WLAN6E

Power :120V/60Hz

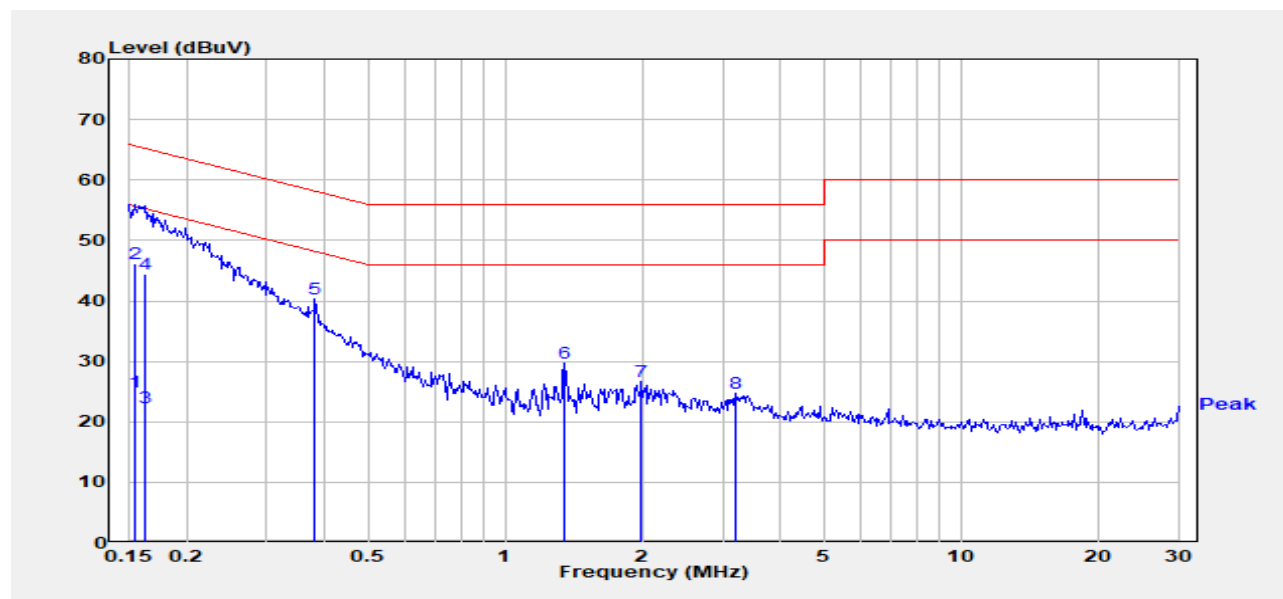
Probe :L

Test Site :Conduction 1

Test Date :2023-06-16

Temp./Humi. :24.6°C/65%

Engineer :Ricky Chen



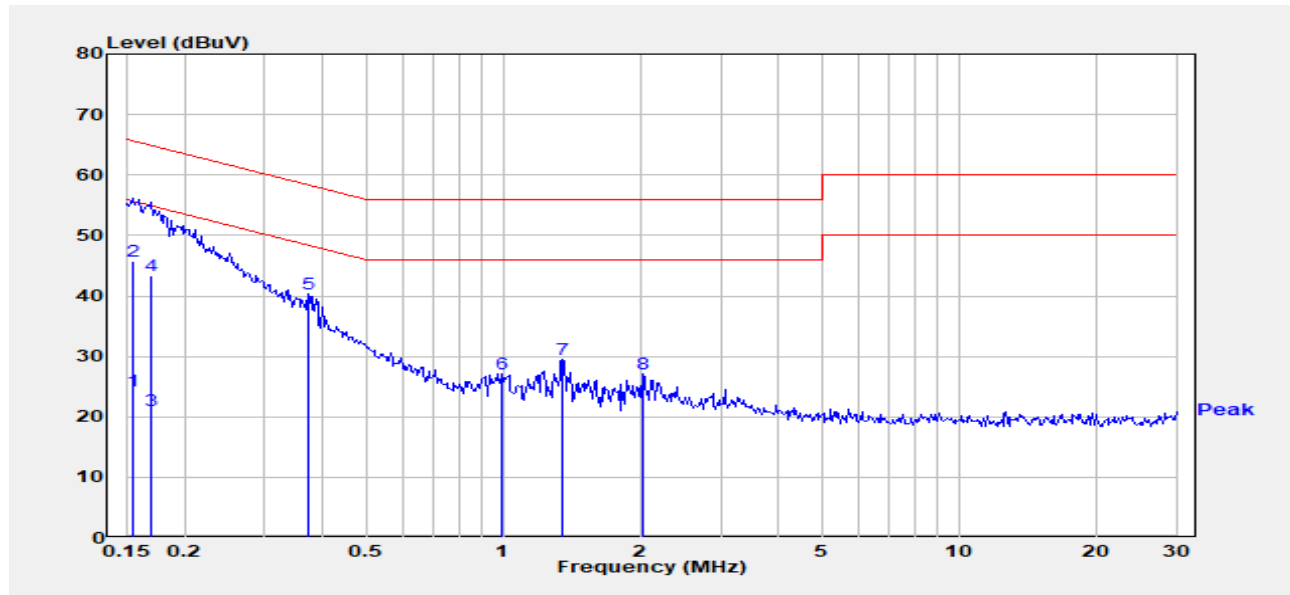
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV	Limit dBuV	Margin dB
0.153	Average	14.67	10.25	24.92	55.81	-30.89
0.153	QP	36.01	10.25	46.26	65.81	-19.55
0.162	Average	12.14	10.25	22.39	55.36	-32.97
0.162	QP	34.23	10.25	44.48	65.36	-20.88
0.383	Peak	30.17	10.25	40.42	58.22	-17.80
1.349	Peak	19.09	10.67	29.76	56.00	-26.24
1.995	Peak	15.66	11.08	26.73	56.00	-29.27
3.211	Peak	14.00	10.79	24.79	56.00	-31.21

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Report Number :TERF2305001146ER
Operation Mode :WLAN6E
Power :120V/60Hz
Probe :N

Test Site :Conduction 1
Test Date :2023-06-16
Temp./Humi. :24.6°C/65%
Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	14.12	10.25	24.37	55.81	-31.44
0.153	QP	35.56	10.25	45.81	65.81	-20.00
0.170	Average	10.68	10.25	20.93	54.98	-34.05
0.170	QP	33.06	10.25	43.31	64.98	-21.67
0.374	Peak	30.01	10.25	40.26	58.41	-18.15
0.992	Peak	16.72	10.36	27.08	56.00	-28.92
1.349	Peak	18.78	10.67	29.45	56.00	-26.55
2.026	Peak	15.96	11.07	27.03	56.00	-28.97

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8 MAXIMUM OUTPUT POWER

8.1 Standard Applicable

8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.1.2 Output Power

§15.407(a)

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

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

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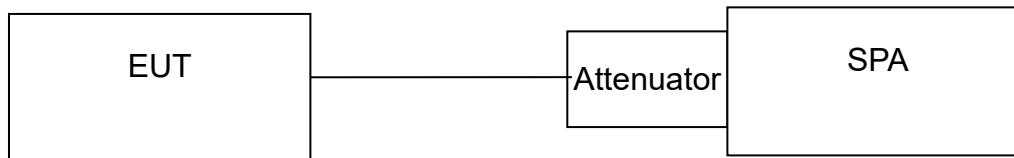
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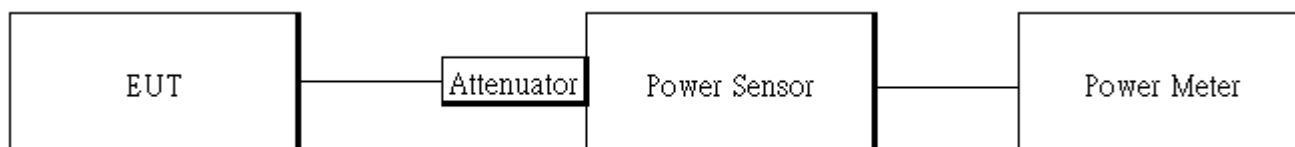
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8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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8.3 Measurement Procedure

8.3.1 Duty Cycle

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

8.3.2 Output Power

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

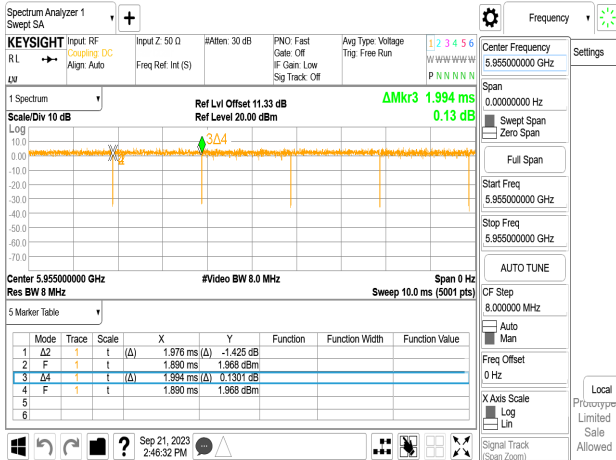
8.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	99.10	0.04	0.51	0.01
802.11ax_20	99.70	0.01	0.19	0.01
802.11ax_40	99.71	0.01	0.18	0.01
802.11ax_80	99.57	0.02	0.27	0.01
802.11ax_160	99.27	0.03	0.46	0.01

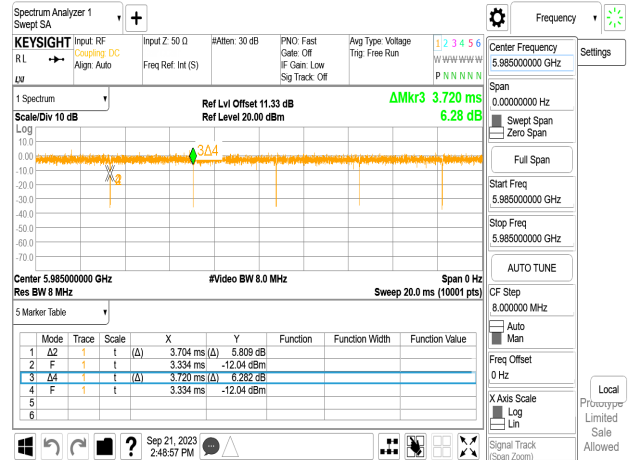
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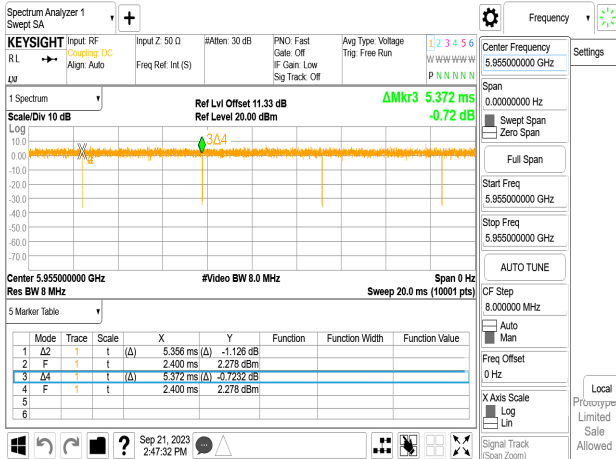
802.11a_20MHz_Chain0_5955MHz



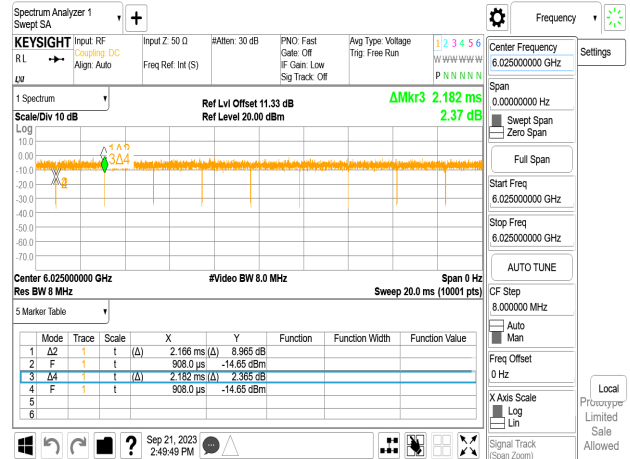
802.11ax_80MHz_Chain0_5985MHz



802.11ax_20MHz_Chain0_5955MHz



802.11ax_160MHz_Chain0_6025MHz



802.11ax_40MHz_Chain0_5965MHz



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8.5 Conducted output power

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	-1.21	-2.07	1.39	8.035	9.43	30	PASS
45	6175	-1.49	-2.12	1.22	8.035	9.25	30	PASS
93	6415	-1.41	-1.70	1.46	8.035	9.49	30	PASS
97	6435	-2.67	-2.19	0.59	8.235	8.82	30	PASS
105	6475	-2.13	-2.20	0.84	8.235	9.08	30	PASS
113	6515	-2.34	-2.38	0.65	8.235	8.88	30	PASS
117	6535	-3.18	-1.70	0.63	8.435	9.07	30	PASS
149	6695	-2.57	-1.67	0.91	8.435	9.35	30	PASS
181	6855	-2.37	-0.97	1.40	8.435	9.83	30	PASS
185	6875(U-NII 7)	-5.68	-4.10	-1.81	8.435	6.63	30	PASS
185	6875(U-NII 8)	-5.68	-4.10	-1.81	8.835	7.03	30	PASS
189	6895	-2.97	-1.23	1.00	8.835	9.83	30	PASS
209	6995	-3.00	-2.04	0.52	8.835	9.35	30	PASS
229	7095	-2.73	-2.13	0.59	8.835	9.42	30	PASS

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802.11ax_20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	-1.97	-3.18	0.48	8.035	8.52	30	PASS
		26/0	-9.00	-11.37	-7.01	8.035	1.02	30	PASS
		52/37	-6.83	-9.00	-4.77	8.035	3.27	30	PASS
		106/53	-4.53	-6.24	-2.29	8.035	5.75	30	PASS
45	6175	full	-2.28	-2.90	0.43	8.035	8.47	30	PASS
93	6415	full	-2.44	-2.62	0.48	8.035	8.52	30	PASS
		26/8	-11.30	-9.06	-7.02	8.035	1.01	30	PASS
		52/40	-8.00	-7.18	-4.56	8.035	3.48	30	PASS
		106/54	-5.75	-4.52	-2.08	8.035	5.96	30	PASS
97	6435	full	-3.10	-2.38	0.29	8.235	8.52	30	PASS
		26/0	-10.25	-9.27	-6.72	8.235	1.52	30	PASS
		52/37	-8.12	-7.08	-4.56	8.235	3.68	30	PASS
		106/53	-5.98	-4.60	-2.22	8.235	6.01	30	PASS
105	6475	full	-2.65	-2.43	0.47	8.235	8.71	30	PASS
113	6515	full	-2.88	-2.45	0.35	8.235	8.59	30	PASS
		26/8	-10.17	-9.27	-6.68	8.235	1.55	30	PASS
		52/40	-7.44	-7.60	-4.51	8.235	3.73	30	PASS
		106/54	-5.10	-5.28	-2.18	8.235	6.06	30	PASS
117	6535	full	-3.42	-2.70	-0.03	8.435	8.40	30	PASS
		26/0	-9.97	-10.01	-6.98	8.435	1.46	30	PASS
		52/37	-7.54	-8.00	-4.75	8.435	3.68	30	PASS
		106/53	-4.80	-3.92	-1.32	8.435	7.11	30	PASS
149	6695	full	-3.87	-2.64	-0.20	8.435	8.24	30	PASS
181	6855	full	-3.85	-2.33	-0.01	8.435	8.42	30	PASS
		26/8	-10.55	-9.32	-6.88	8.435	1.56	30	PASS
		52/40	-8.40	-6.40	-4.27	8.435	4.16	30	PASS
		106/54	-5.25	-3.58	-1.32	8.435	7.11	30	PASS
185	6875(U-NII 7)	full	-6.77	-5.43	-3.04	8.435	5.40	30	PASS
185	6875(U-NII 8)	full	-6.77	-5.43	-3.04	8.835	5.80	30	PASS
189	6895	full	-3.93	-2.30	-0.03	8.835	8.81	30	PASS
		26/0	-10.58	-9.11	-6.77	8.835	2.07	30	PASS
		52/37	-7.88	-6.24	-3.97	8.835	4.87	30	PASS
		106/53	-5.02	-2.95	-0.85	8.835	7.99	30	PASS
209	6995	full	-3.51	-2.66	-0.05	8.835	8.78	30	PASS
229	7095	full	-7.05	-6.36	-3.68	8.835	5.16	30	PASS
		26/8	-10.97	-9.76	-7.31	8.835	1.53	30	PASS
		52/40	-8.13	-6.90	-4.46	8.835	4.38	30	PASS
		106/54	-7.48	-6.82	-4.12	8.835	4.71	30	PASS

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802.11ax_40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	-0.20	0.82	3.35	8.035	11.39	30	PASS
		242/61	-2.12	-1.93	0.99	8.035	9.02	30	PASS
43	6165	full	0.07	0.85	3.49	8.035	11.53	30	PASS
91	6405	full	0.07	0.59	3.35	8.035	11.39	30	PASS
		242/62	-2.36	-1.88	0.90	8.035	8.93	30	PASS
99	6445	full	-0.10	0.08	3.00	8.235	11.24	30	PASS
		242/61	-2.41	-2.32	0.65	8.235	8.88	30	PASS
107	6485	full	-0.24	-0.22	2.78	8.235	11.02	30	PASS
		242/62	-1.92	-2.12	0.99	8.235	9.23	30	PASS
115	6525(U-NII 6)	full	-3.21	-1.94	0.48	8.235	8.72	30	PASS
115	6525(U-NII 7)	full	-3.21	-1.94	0.48	8.435	8.92	30	PASS
123	6565	full	-0.40	1.20	3.49	8.435	11.92	30	PASS
		242/61	-2.00	-0.61	1.76	8.435	10.20	30	PASS
147	6685	full	0.10	0.77	3.46	8.435	11.90	30	PASS
179	6845	full	-0.10	0.66	3.31	8.435	11.74	30	PASS
		242/62	-2.40	-1.03	1.35	8.435	9.79	30	PASS
187	6885(U-NII 7)	full	-6.86	-5.09	-2.87	8.435	5.56	30	PASS
187	6885(U-NII 8)	full	-1.71	0.08	2.29	8.835	11.12	30	PASS
195	6925	full	-0.94	0.79	3.02	8.835	11.86	30	PASS
		242/61	-2.74	-0.67	1.43	8.835	10.27	30	PASS
211	7005	full	-0.54	0.34	2.94	8.835	11.77	30	PASS
227	7085	full	-0.72	0.07	2.71	8.835	11.54	30	PASS
		242/62	-2.45	-1.64	0.99	8.835	9.82	30	PASS

802.11ax_80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	2.79	3.91	6.40	8.035	14.43	30	PASS
		484/65	0.58	1.08	3.85	8.035	11.88	30	PASS
39	6145	full	2.94	3.91	6.46	8.035	14.50	30	PASS
87	6385	full	2.38	3.60	6.04	8.035	14.08	30	PASS
		484/66	0.30	1.53	3.97	8.035	12.00	30	PASS
103	6465	full	2.71	2.20	5.47	8.235	13.71	30	PASS
		484/65	2.23	1.33	4.81	8.235	13.05	30	PASS
		484/66	1.84	1.18	4.53	8.235	12.77	30	PASS
119	6545(U-NII 6)	full	-2.65	-1.90	0.75	8.235	8.99	30	PASS
119	6545(U-NII 7)	full	2.37	3.12	5.77	8.435	14.21	30	PASS
135	6625	full	2.06	3.11	5.63	8.435	14.06	30	PASS
		484/65	1.59	2.33	4.98	8.435	13.42	30	PASS
151	6705	full	2.67	3.26	5.98	8.435	14.42	30	PASS
167	6785	full	2.51	3.41	5.99	8.435	14.43	30	PASS
		484/66	1.21	1.96	4.61	8.435	13.05	30	PASS
183	6865(U-NII 7)	full	-0.30	1.69	3.82	8.435	12.26	30	PASS
183	6865(U-NII 8)	full	-2.61	-0.62	1.51	8.835	10.34	30	PASS
199	6945	full	1.86	3.84	5.97	8.835	14.81	30	PASS
		484/65	0.97	2.67	4.91	8.835	13.75	30	PASS
215	7025	full	2.34	2.84	5.61	8.835	14.44	30	PASS
		484/66	1.35	1.66	4.52	8.835	13.35	30	PASS

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802.11ax_160_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	5.82	7.79	9.93	8.035	17.96	30	PASS
		996/67	4.58	5.28	7.96	8.035	15.99	30	PASS
47	6185	full	6.04	5.92	8.99	8.035	17.03	30	PASS
79	6345	full	5.28	6.24	8.80	8.035	16.83	30	PASS
		996/S67	4.24	5.15	7.73	8.035	15.77	30	PASS
111	6505(U-NII 6)	full	3.29	4.34	6.86	8.235	15.09	30	PASS
111	6505(U-NII 7)	full	0.99	2.05	4.56	8.435	13.00	30	PASS
143	6665	full	4.92	6.07	8.55	8.435	16.98	30	PASS
		996/67	4.70	5.22	7.98	8.435	16.41	30	PASS
		996/S67	4.39	5.37	7.92	8.435	16.35	30	PASS
175	6825(U-NII 7)	full	4.26	5.33	7.84	8.435	16.28	30	PASS
175	6825(U-NII 8)	full	-2.40	-1.32	1.18	8.835	10.02	30	PASS
207	6985	full	5.56	5.85	8.72	8.835	17.55	30	PASS
		996/67	3.30	4.22	6.80	8.835	15.63	30	PASS
		996/S67	3.94	3.85	6.91	8.835	15.74	30	PASS

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Lowest power

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	-6.94	-8.50	-4.64	8.035	3.39	30	PASS
45	6175	-7.43	-8.59	-4.96	8.035	3.07	30	PASS
93	6415	-8.41	-7.26	-4.79	8.035	3.25	30	PASS
97	6435	-9.15	-8.11	-5.59	8.235	2.65	30	PASS
105	6475	-8.07	-8.31	-5.18	8.235	3.06	30	PASS
113	6515	-8.32	-8.44	-5.37	8.235	2.86	30	PASS
117	6535	-8.82	-8.33	-5.56	8.435	2.88	30	PASS
149	6695	-8.50	-8.26	-5.37	8.435	3.07	30	PASS
181	6855	-8.09	-7.22	-4.62	8.435	3.81	30	PASS
185	6875(U-NII 7)	-11.50	-10.39	-7.90	8.435	0.53	30	PASS
185	6875(U-NII 8)	-11.50	-10.39	-7.90	8.835	0.93	30	PASS
189	6895	-9.76	-7.47	-5.46	8.835	3.38	30	PASS
209	6995	-9.59	-8.12	-5.78	8.835	3.05	30	PASS
229	7095	-8.88	-8.02	-5.42	8.835	3.42	30	PASS

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802.11ax_20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	-8.26	-9.57	-5.85	8.035	2.18	30	PASS
		26/0	-15.27	-16.98	-13.03	8.035	-4.99	30	PASS
		52/37	-13.40	-15.06	-11.14	8.035	-3.10	30	PASS
		106/53	-11.18	-12.31	-8.70	8.035	-0.66	30	PASS
45	6175	full	-8.64	-9.09	-5.85	8.035	2.19	30	PASS
93	6415	full	-9.46	-8.37	-5.87	8.035	2.17	30	PASS
		26/8	-17.14	-15.58	-13.28	8.035	-5.24	30	PASS
		52/40	-14.50	-12.86	-10.59	8.035	-2.55	30	PASS
		106/54	-12.00	-11.05	-8.49	8.035	-0.45	30	PASS
97	6435	full	-9.52	-8.27	-5.84	8.235	2.40	30	PASS
		26/0	-16.08	-15.42	-12.72	8.235	-4.49	30	PASS
		52/37	-14.29	-13.45	-10.84	8.235	-2.60	30	PASS
		106/53	-12.14	-10.83	-8.42	8.235	-0.19	30	PASS
105	6475	full	-8.90	-8.97	-5.92	8.235	2.31	30	PASS
113	6515	full	-9.14	-9.11	-6.11	8.235	2.12	30	PASS
		26/8	-16.58	-15.76	-13.14	8.235	-4.90	30	PASS
		52/40	-14.30	-13.41	-10.82	8.235	-2.58	30	PASS
		106/54	-11.47	-11.15	-8.29	8.235	-0.06	30	PASS
117	6535	full	-9.88	-9.20	-6.51	8.435	1.92	30	PASS
		26/0	-15.97	-16.03	-12.99	8.435	-4.55	30	PASS
		52/37	-14.21	-14.12	-11.15	8.435	-2.72	30	PASS
		106/53	-11.04	-10.17	-7.57	8.435	0.87	30	PASS
149	6695	full	-9.72	-9.22	-6.45	8.435	1.99	30	PASS
181	6855	full	-9.96	-9.01	-6.45	8.435	1.99	30	PASS
		26/8	-16.82	-15.32	-12.99	8.435	-4.56	30	PASS
		52/40	-14.64	-12.88	-10.66	8.435	-2.22	30	PASS
		106/54	-10.97	-10.30	-7.61	8.435	0.83	30	PASS
185	6875(U-NII 7)	full	-12.83	-11.99	-9.38	8.435	-0.94	30	PASS
185	6875(U-NII 8)	full	-12.83	-11.99	-9.38	8.835	-0.54	30	PASS
189	6895	full	-10.73	-8.41	-6.40	8.835	2.43	30	PASS
		26/0	-16.62	-15.35	-12.93	8.835	-4.09	30	PASS
		52/37	-14.12	-12.65	-10.31	8.835	-1.47	30	PASS
		106/53	-11.02	-9.13	-6.96	8.835	1.88	30	PASS
209	6995	full	-9.96	-8.35	-6.07	8.835	2.77	30	PASS
229	7095	full	-13.55	-12.52	-9.99	8.835	-1.16	30	PASS
		26/8	-17.18	-15.71	-13.37	8.835	-4.53	30	PASS
		52/40	-14.44	-13.11	-10.71	8.835	-1.88	30	PASS
		106/54	-13.70	-13.05	-10.35	8.835	-1.51	30	PASS

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802.11ax_40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	-6.22	-5.44	-2.80	8.035	5.24	30	PASS
		242/61	-9.06	-7.28	-5.07	8.035	2.97	30	PASS
43	6165	full	-6.35	-5.33	-2.80	8.035	5.24	30	PASS
91	6405	full	-6.76	-5.60	-3.13	8.035	4.91	30	PASS
		242/62	-8.48	-8.26	-5.36	8.035	2.68	30	PASS
99	6445	full	-6.43	-6.51	-3.46	8.235	4.78	30	PASS
		242/61	-9.09	-8.42	-5.73	8.235	2.51	30	PASS
107	6485	full	-6.51	-6.61	-3.55	8.235	4.69	30	PASS
		242/62	-8.35	-8.31	-5.32	8.235	2.92	30	PASS
115	6525(U-NII 6)	full	-8.91	-8.22	-5.54	8.235	2.70	30	PASS
115	6525(U-NII 7)	full	-8.91	-8.22	-5.54	8.435	2.90	30	PASS
123	6565	full	-6.21	-5.50	-2.83	8.435	5.61	30	PASS
		242/61	-8.64	-6.42	-4.38	8.435	4.06	30	PASS
147	6685	full	-5.75	-5.41	-2.56	8.435	5.87	30	PASS
179	6845	full	-6.42	-5.52	-2.93	8.435	5.50	30	PASS
		242/62	-8.52	-7.33	-4.87	8.435	3.56	30	PASS
187	6885(U-NII 7)	full	-13.30	-11.33	-9.19	8.435	-0.76	30	PASS
187	6885(U-NII 8)	full	-8.15	-6.16	-4.03	8.835	4.80	30	PASS
195	6925	full	-7.55	-5.38	-3.32	8.835	5.52	30	PASS
		242/61	-8.51	-7.13	-4.75	8.835	4.08	30	PASS
211	7005	full	-6.97	-5.36	-3.08	8.835	5.76	30	PASS
227	7085	full	-7.27	-6.34	-3.77	8.835	5.07	30	PASS
		242/62	-8.32	-7.94	-5.11	8.835	3.72	30	PASS

802.11ax_80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	-3.70	-1.97	0.26	8.035	8.29	30	PASS
		484/65	-6.27	-5.12	-2.65	8.035	5.39	30	PASS
39	6145	full	-3.41	-2.39	0.14	8.035	8.17	30	PASS
87	6385	full	-3.43	-2.91	-0.15	8.035	7.88	30	PASS
		484/66	-5.93	-4.65	-2.23	8.035	5.80	30	PASS
103	6465	full	-3.92	-3.97	-0.94	8.235	7.30	30	PASS
		484/65	-4.60	-4.67	-1.63	8.235	6.61	30	PASS
		484/66	-4.46	-4.51	-1.48	8.235	6.76	30	PASS
119	6545(U-NII 6)	full	-9.01	-8.05	-5.49	8.235	2.74	30	PASS
119	6545(U-NII 7)	full	-3.99	-3.03	-0.47	8.435	7.96	30	PASS
135	6625	full	-4.32	-3.45	-0.85	8.435	7.58	30	PASS
		484/65	-4.71	-3.79	-1.22	8.435	7.22	30	PASS
151	6705	full	-3.16	-3.34	-0.24	8.435	8.19	30	PASS
167	6785	full	-3.69	-2.56	-0.08	8.435	8.36	30	PASS
		484/66	-5.03	-3.89	-1.41	8.435	7.02	30	PASS
183	6865(U-NII 7)	full	-6.35	-5.07	-2.65	8.435	5.79	30	PASS
183	6865(U-NII 8)	full	-8.66	-7.38	-4.97	8.835	3.87	30	PASS
199	6945	full	-3.26	-2.89	-0.06	8.835	8.77	30	PASS
		484/65	-4.65	-4.15	-1.38	8.835	7.45	30	PASS
215	7025	full	-3.82	-3.34	-0.56	8.835	8.27	30	PASS
		484/66	-5.19	-4.58	-1.87	8.835	6.97	30	PASS

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802.11ax_160_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER + Factor(dBm)		TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	-0.41	1.44	3.62	8.035	11.66	30	PASS
		996/67	-2.37	-0.34	1.77	8.035	9.81	30	PASS
47	6185	full	-0.15	-0.86	2.52	8.035	10.56	30	PASS
79	6345	full	-0.74	-0.43	2.43	8.035	10.46	30	PASS
		996/S67	-1.35	-1.29	1.69	8.035	9.73	30	PASS
111	6505(U-NII 6)	full	-3.23	-1.99	0.44	8.235	8.68	30	PASS
111	6505(U-NII 7)	full	-5.53	-4.28	-1.85	8.435	6.59	30	PASS
143	6665	full	-0.99	-0.49	2.28	8.435	10.71	30	PASS
		996/67	-1.46	-1.42	1.57	8.435	10.01	30	PASS
		996/S67	-1.42	-0.80	1.91	8.435	10.35	30	PASS
175	6825(U-NII 7)	full	-2.03	-0.78	1.65	8.435	10.09	30	PASS
175	6825(U-NII 8)	full	-8.69	-7.43	-5.00	8.835	3.83	30	PASS
207	6985	full	-1.08	-0.47	2.25	8.835	11.08	30	PASS
		996/67	-2.95	-2.44	0.32	8.835	9.16	30	PASS
		996/S67	-3.03	-2.11	0.47	8.835	9.30	30	PASS

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9 MAXIMUM POWER SPECTRAL DENSITY

9.1 Standard Applicable

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1- megahertz band.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

EUT CATEGORY		Equipment Class	§15.407(a)
	Standard Access Point	6SD	EIRP < 23dBm/MHz
	indoor Access Point	6ID	EIRP < 5dBm/MHz
	Subordinate Device	6PP	EIRP < 5dBm/MHz
	Fixed Client	6FC	EIRP < 23dBm/MHz
	Indoor Client	6XD	EIRP < -1dBm/MHz
	Standard Client	6FX	EIRP < 17dBm/MHz
V	Dual Client	6CD	Compliance both indoor client and standard client limits

Note:

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

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

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

where

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

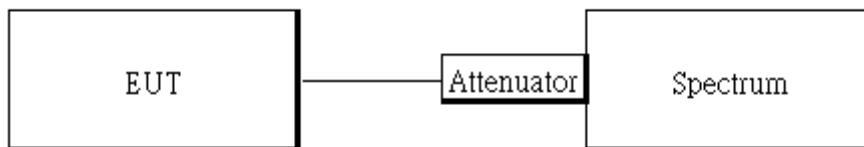
NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

9.2 Test Setup



9.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle $\geq 98\%$: Record the max. reading.
(2)Duty cycle $< 98\%$: Record the max. reading and add $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antennas.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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9.4 Measurement Result

9.4.1 Power spectral density

POWER DENSITY 802.11a MODE								
Frequency (MHz)	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Ch0 meas	Ch1 meas						
5955	-11.939	-12.556	0.00	-9.23	8.035	-1.19	5.00	-6.19
6175	-12.541	-12.336	0.00	-9.43	8.035	-1.39	5.00	-6.39
6415	-12.996	-11.664	0.00	-9.27	8.035	-1.23	5.00	-6.23
6435	-13.750	-12.054	0.00	-9.81	8.235	-1.57	5.00	-6.57
6475	-13.181	-12.277	0.00	-9.70	8.235	-1.46	5.00	-6.46
6515	-13.223	-12.467	0.00	-9.82	8.235	-1.58	5.00	-6.58
6535	-14.380	-11.843	0.00	-9.92	8.435	-1.48	5.00	-6.48
6695	-13.772	-12.329	0.00	-9.98	8.435	-1.55	5.00	-6.55
6855	-14.620	-12.141	0.00	-10.20	8.435	-1.76	5.00	-6.76
6875(U-NII 7)	-16.977	-14.758	0.00	-12.72	8.435	-4.28	5.00	-9.28
6875(U-NII 8)	-16.977	-14.758	0.00	-12.72	8.835	-3.88	5.00	-8.88
6895	-14.837	-12.011	0.00	-10.19	8.835	-1.35	5.00	-6.35
6995	-14.050	-12.564	0.00	-10.23	8.835	-1.40	5.00	-6.40
7095	-14.298	-12.774	0.00	-10.46	8.835	-1.62	5.00	-6.62

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POWER DENSITY 802.11ax HE20 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
5955	full	-12.544	-12.523	0.00	-9.52	8.035	-1.49	5.00	-6.49
	26/0	-11.918	-13.301	0.00	-9.54	8.035	-1.51	5.00	-6.51
	52/37	-12.255	-13.190	0.00	-9.69	8.035	-1.65	5.00	-6.65
	106/53	-12.494	-12.824	0.00	-9.65	8.035	-1.61	5.00	-6.61
6175	full	-12.717	-12.132	0.00	-9.40	8.035	-1.37	5.00	-6.37
6415	full	-12.688	-12.034	0.00	-9.34	8.035	-1.30	5.00	-6.30
	26/8	-14.234	-10.758	0.00	-9.15	8.035	-1.11	5.00	-6.11
	52/40	-14.239	-11.762	0.00	-9.82	8.035	-1.78	5.00	-6.78
	106/54	-14.677	-11.655	0.00	-9.90	8.035	-1.86	5.00	-6.86
6435	full	-13.565	-11.844	0.00	-9.61	8.235	-1.37	5.00	-6.37
	26/0	-14.003	-11.769	0.00	-9.73	8.235	-1.50	5.00	-6.50
	52/37	-14.070	-11.576	0.00	-9.64	8.235	-1.40	5.00	-6.40
	106/53	-14.128	-11.516	0.00	-9.62	8.235	-1.38	5.00	-6.38
6475	full	-13.237	-12.291	0.00	-9.73	8.235	-1.49	5.00	-6.49
6515	full	-12.945	-12.068	0.00	-9.47	8.235	-1.24	5.00	-6.24
	26/8	-13.744	-11.782	0.00	-9.64	8.235	-1.41	5.00	-6.41
	52/40	-13.496	-12.168	0.00	-9.77	8.235	-1.54	5.00	-6.54
	106/54	-13.772	-12.733	0.00	-10.21	8.235	-1.98	5.00	-6.98
6535	full	-14.109	-12.097	0.00	-9.98	8.435	-1.54	5.00	-6.54
	26/0	-13.534	-12.511	0.00	-9.98	8.435	-1.55	5.00	-6.55
	52/37	-13.342	-12.265	0.00	-9.76	8.435	-1.32	5.00	-6.32
	106/53	-13.577	-12.533	0.00	-10.01	8.435	-1.58	5.00	-6.58
6695	full	-14.045	-12.398	0.00	-10.13	8.435	-1.70	5.00	-6.70
6855	full	-13.964	-11.927	0.00	-9.82	8.435	-1.38	5.00	-6.38
	26/8	-15.358	-11.576	0.00	-10.06	8.435	-1.62	5.00	-6.62
	52/40	-15.192	-11.378	0.00	-9.87	8.435	-1.43	5.00	-6.43
	106/54	-14.588	-11.704	0.00	-9.90	8.435	-1.47	5.00	-6.47
6875(U-NII 7)	full	-17.124	-14.561	0.00	-12.65	8.435	-4.21	5.00	-9.21
6875(U-NII 8)	full	-17.124	-14.561	0.00	-12.65	8.835	-3.81	5.00	-8.81
6895	full	-14.268	-12.042	0.00	-10.00	8.835	-1.17	5.00	-6.17
	26/0	-14.977	-11.994	0.00	-10.22	8.835	-1.39	5.00	-6.39
	52/37	-14.876	-11.928	0.00	-10.15	8.835	-1.31	5.00	-6.31
	106/53	-14.978	-11.654	0.00	-10.00	8.835	-1.16	5.00	-6.16
6995	full	-14.776	-12.341	0.00	-10.38	8.835	-1.54	5.00	-6.54
7095	full	-16.967	-16.805	0.00	-13.87	8.835	-5.04	5.00	-10.04
	26/8	-14.598	-12.409	0.00	-10.36	8.835	-1.52	5.00	-6.52
	52/40	-14.008	-12.151	0.00	-9.97	8.835	-1.14	5.00	-6.14
	106/54	-16.738	-14.853	0.00	-12.68	8.835	-3.85	5.00	-8.85

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POWER DENSITY 802.11ax HE40 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
5965	full	-13.257	-12.063	0.00	-9.61	8.035	-1.57	5.00	-6.57
	242/61	-13.311	-12.282	0.00	-9.76	8.035	-1.72	5.00	-6.72
6165	full	-13.930	-12.134	0.00	-9.93	8.035	-1.89	5.00	-6.89
	242/62	-13.731	-12.442	0.00	-10.03	8.035	-1.99	5.00	-6.99
6405	full	-14.058	-12.293	0.00	-10.08	8.035	-2.04	5.00	-7.04
	242/61	-13.580	-12.122	0.00	-9.78	8.235	-1.54	5.00	-6.54
6445	full	-14.018	-12.672	0.00	-10.28	8.235	-2.05	5.00	-7.05
	242/62	-13.829	-12.936	0.00	-10.35	8.235	-2.11	5.00	-7.11
6485	full	-13.053	-13.756	0.00	-10.38	8.235	-2.14	5.00	-7.14
	242/62	-13.053	-13.756	0.00	-10.38	8.235	-2.14	5.00	-7.14
6525(U-NII 6)	full	-16.710	-14.155	0.00	-12.24	8.235	-4.00	5.00	-9.00
6525(U-NII 7)	full	-16.710	-14.155	0.00	-12.24	8.435	-3.80	5.00	-8.80
6565	full	-13.676	-11.636	0.00	-9.53	8.435	-1.09	5.00	-6.09
	242/61	-13.798	-11.873	0.00	-9.72	8.435	-1.28	5.00	-6.28
6685	full	-13.407	-12.269	0.00	-9.79	8.435	-1.36	5.00	-6.36
	242/62	-14.393	-12.434	0.00	-10.29	8.435	-1.86	5.00	-6.86
6845	full	-14.456	-12.287	0.00	-10.23	8.435	-1.79	5.00	-6.79
	242/62	-14.456	-12.287	0.00	-10.23	8.435	-1.79	5.00	-6.79
6885(U-NII 7)	full	-21.383	-18.519	0.00	-16.71	8.435	-8.27	5.00	-13.27
6885(U-NII 8)	full	-16.233	-13.353	0.00	-11.55	8.835	-2.71	5.00	-7.71
6925	full	-14.872	-12.260	0.00	-10.36	8.835	-1.53	5.00	-6.53
	242/61	-14.964	-12.006	0.00	-10.23	8.835	-1.39	5.00	-6.39
7005	full	-14.324	-12.616	0.00	-10.38	8.835	-1.54	5.00	-6.54
7085	full	-14.300	-12.744	0.00	-10.44	8.835	-1.61	5.00	-6.61
	242/62	-14.500	-13.177	0.00	-10.78	8.835	-1.94	5.00	-6.94
POWER DENSITY 802.11ax HE80 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
5985	full	-13.262	-11.497	0.00	-9.28	8.035	-1.25	5.00	-6.25
	484/65	-13.168	-12.061	0.00	-9.57	8.035	-1.53	5.00	-6.53
6145	full	-13.225	-11.522	0.00	-9.28	8.035	-1.25	5.00	-6.25
	484/66	-13.510	-11.363	0.00	-9.29	8.035	-1.26	5.00	-6.26
6385	full	-15.641	-13.542	0.00	-11.46	8.035	-3.42	5.00	-8.42
	484/66	-12.952	-13.059	0.00	-9.99	8.235	-1.76	5.00	-6.76
6465	full	-13.172	-13.040	0.00	-10.10	8.235	-1.86	5.00	-6.86
	484/66	-13.616	-13.701	0.00	-10.65	8.235	-2.41	5.00	-7.41
6545(U-NII 6)	full	-18.811	-17.378	0.00	-15.03	8.235	-6.79	5.00	-11.79
6545(U-NII 7)	full	-13.791	-12.363	0.00	-10.01	8.435	-1.57	5.00	-6.57
6625	full	-14.085	-12.082	0.00	-9.96	8.435	-1.52	5.00	-6.52
	484/65	-13.357	-11.976	0.00	-9.60	8.435	-1.17	5.00	-6.17
6705	full	-13.857	-12.507	0.00	-10.12	8.435	-1.68	5.00	-6.68
	484/66	-13.947	-12.164	0.00	-9.95	8.435	-1.52	5.00	-6.52
6785	full	-13.796	-12.202	0.00	-9.92	8.435	-1.48	5.00	-6.48
	484/66	-13.796	-12.202	0.00	-9.92	8.435	-1.48	5.00	-6.48
6865(U-NII 7)	full	-16.283	-13.642	0.00	-11.75	8.435	-3.32	5.00	-8.32
6865(U-NII 8)	full	-18.598	-15.960	0.00	-14.07	8.835	-5.24	5.00	-10.24
6945	full	-14.603	-11.783	0.00	-9.96	8.835	-1.12	5.00	-6.12
	484/65	-14.855	-12.201	0.00	-10.32	8.835	-1.48	5.00	-6.48
7025	full	-14.240	-12.508	0.00	-10.28	8.835	-1.44	5.00	-6.44
	484/66	-14.524	-13.097	0.00	-10.74	8.835	-1.91	5.00	-6.91

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POWER DENSITY 802.11ax HE160 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		Ch0 meas	Ch1 meas						
6025	full	-13.309	-11.115	0.00	-9.06	8.035	-1.03	5.00	-6.03
	996/67	-13.495	-12.365	0.00	-9.88	8.035	-1.85	5.00	-6.85
6185	full	-12.700	-11.950	0.00	-9.30	8.035	-1.26	5.00	-6.26
	full	-13.707	-11.438	0.00	-9.42	8.035	-1.38	5.00	-6.38
6345	full	-13.401	-12.138	0.00	-9.71	8.035	-1.68	5.00	-6.68
	996/S67	-13.401	-12.138	0.00	-9.71	8.035	-1.68	5.00	-6.68
6505(U-NII 6)	full	-14.532	-13.312	0.00	-10.87	8.235	-2.63	5.00	-7.63
6505(U-NII 7)	full	-16.826	-15.603	0.00	-13.16	8.435	-4.73	5.00	-9.73
6665	full	-13.521	-12.401	0.00	-9.91	8.435	-1.48	5.00	-6.48
	996/67	-13.589	-12.374	0.00	-9.93	8.435	-1.49	5.00	-6.49
	996/S67	-13.684	-12.087	0.00	-9.80	8.435	-1.37	5.00	-6.37
6825(U-NII 7)	full	-14.950	-12.843	0.00	-10.76	8.435	-2.32	5.00	-7.32
6825(U-NII 8)	full	-21.608	-19.500	0.00	-17.42	8.835	-8.58	5.00	-13.58
6985	full	-13.674	-12.436	0.00	-10.00	8.835	-1.17	5.00	-6.17
	996/67	-14.266	-13.310	0.00	-10.75	8.835	-1.92	5.00	-6.92
	996/S67	-14.556	-13.462	0.00	-10.96	8.835	-2.13	5.00	-7.13

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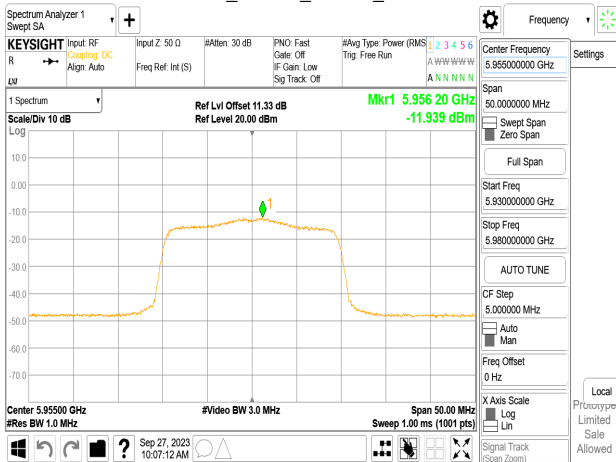
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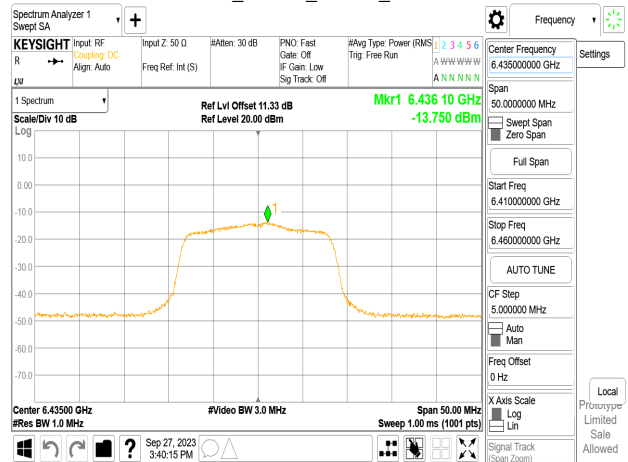
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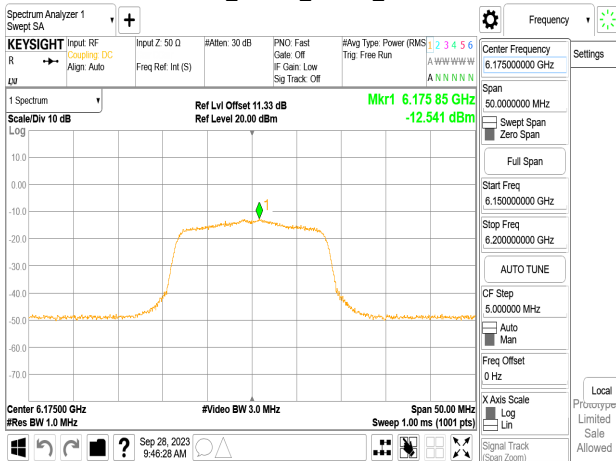
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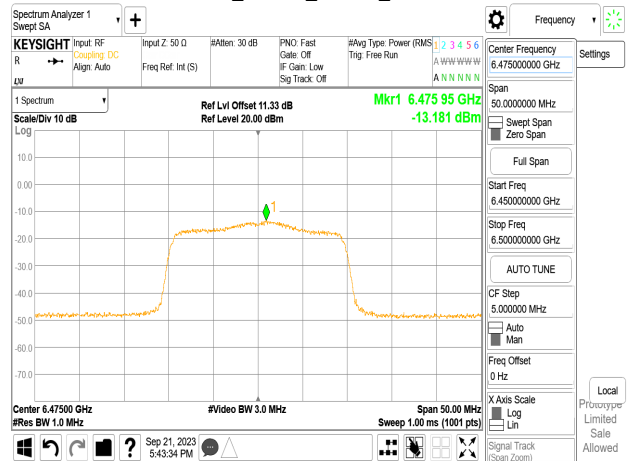
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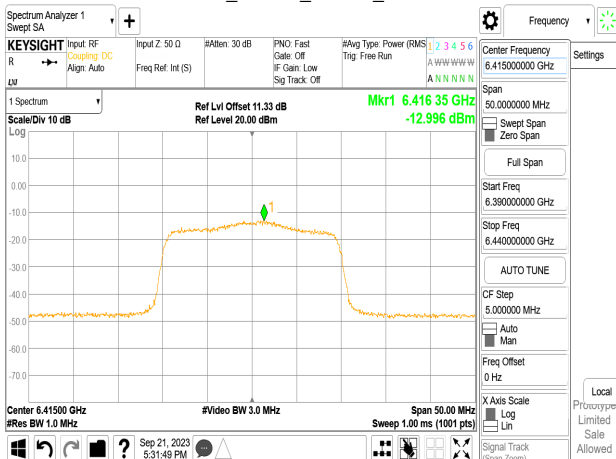
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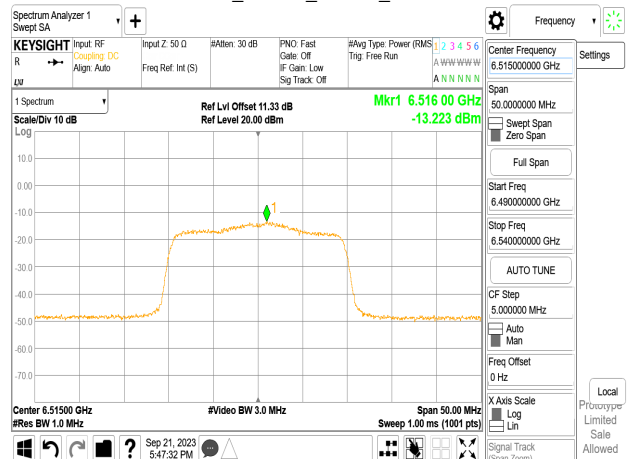
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802.11a_20MHz_Chain0_6415MHz



802.11a_20MHz_Chain0_6515MHz



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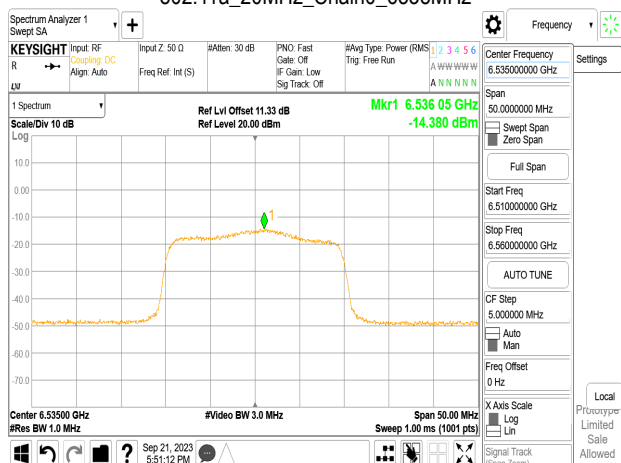
t (886-2) 2299-3279

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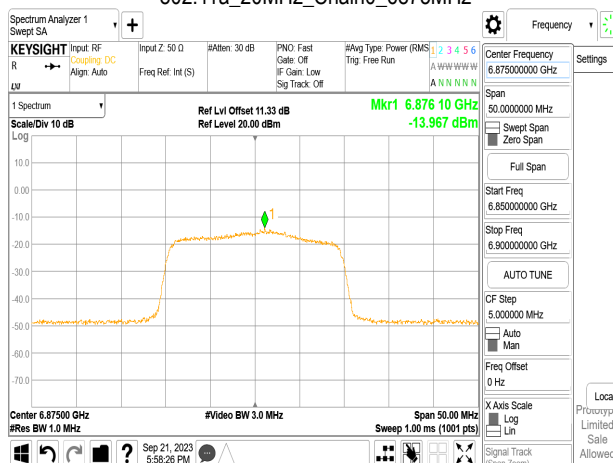
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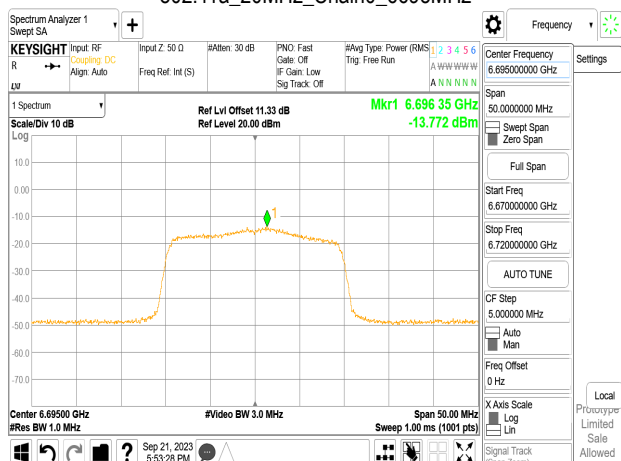
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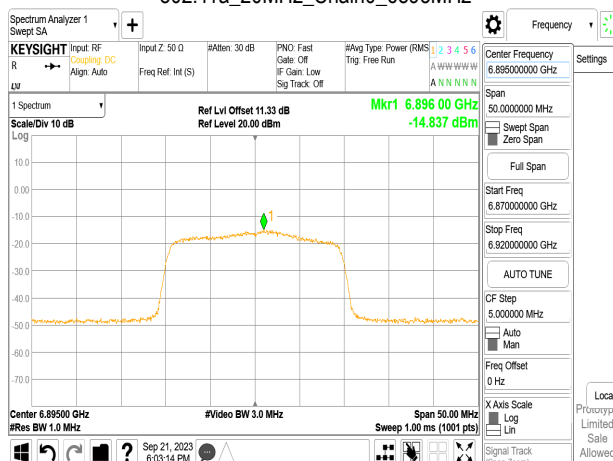
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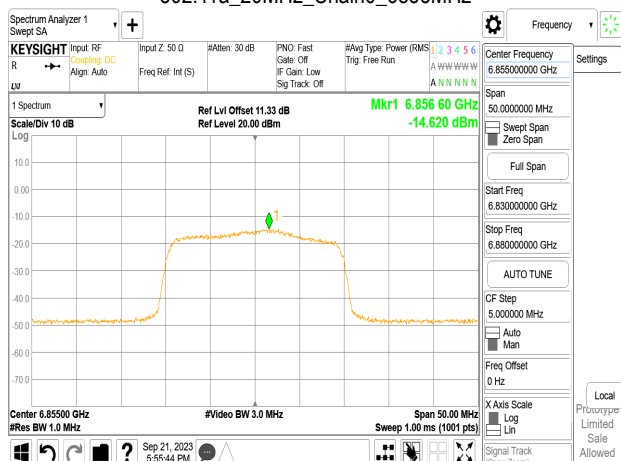
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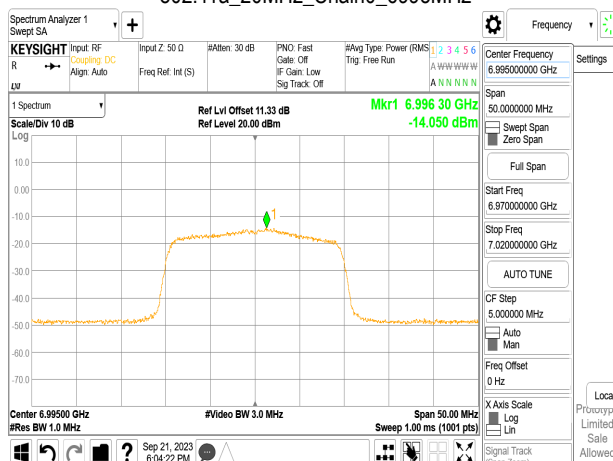
802.11a_20MHz_Chain0_6895MHz



802.11a_20MHz_Chain0_6855MHz



802.11a_20MHz_Chain0_6995MHz



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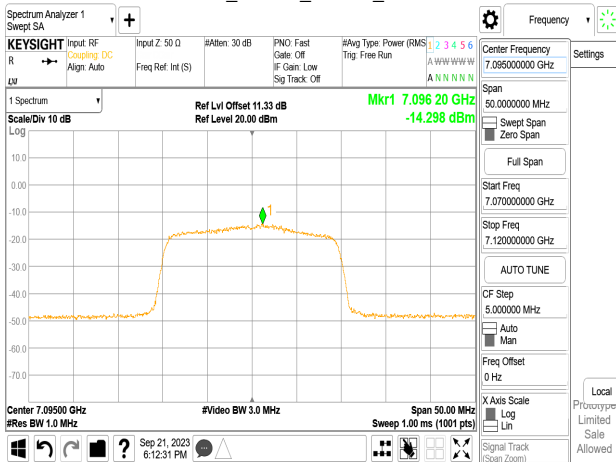
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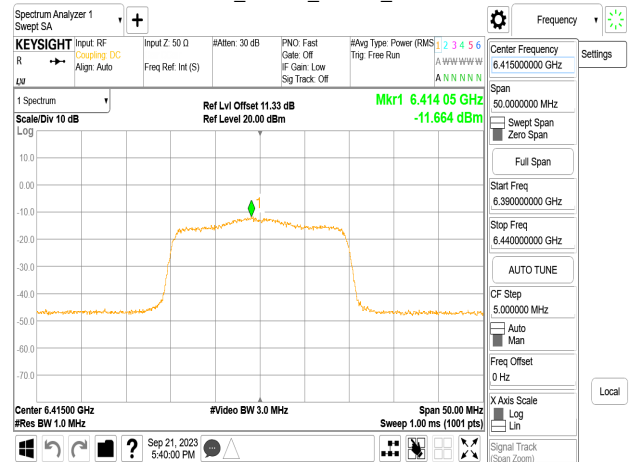
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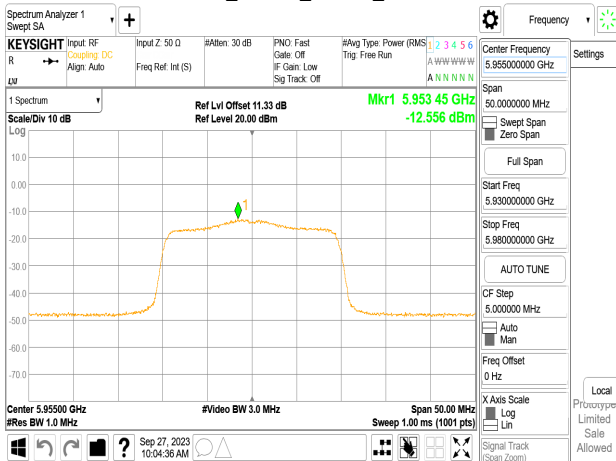
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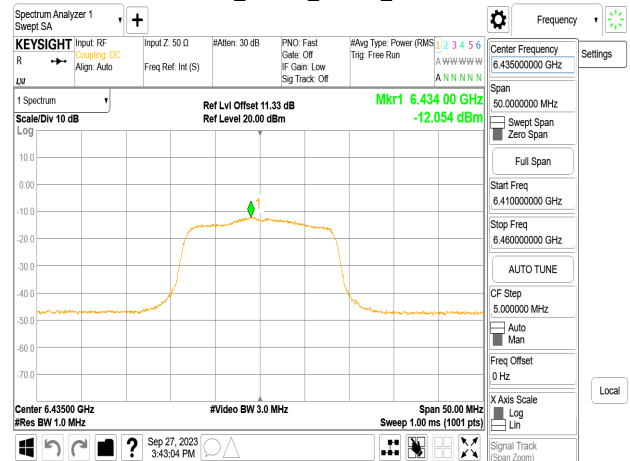
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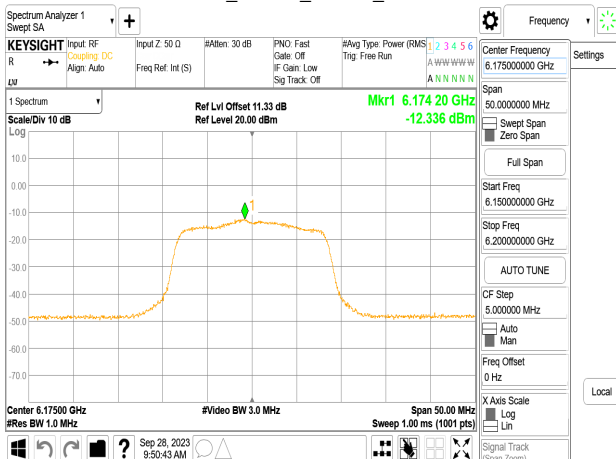
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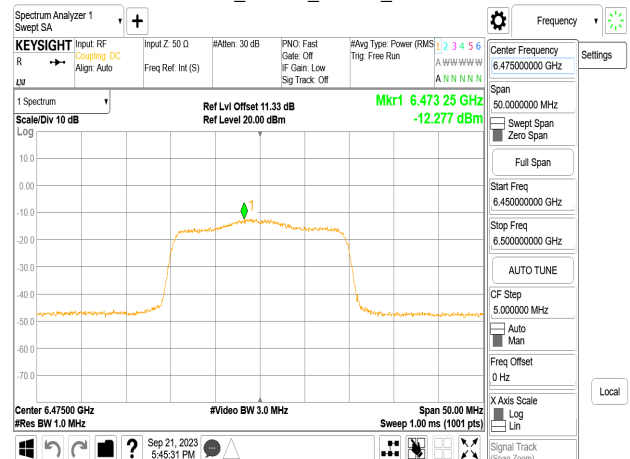
802.11a_20MHz_Chain1_6435MHz



802.11a_20MHz_Chain1_6175MHz



802.11a_20MHz_Chain1_6475MHz



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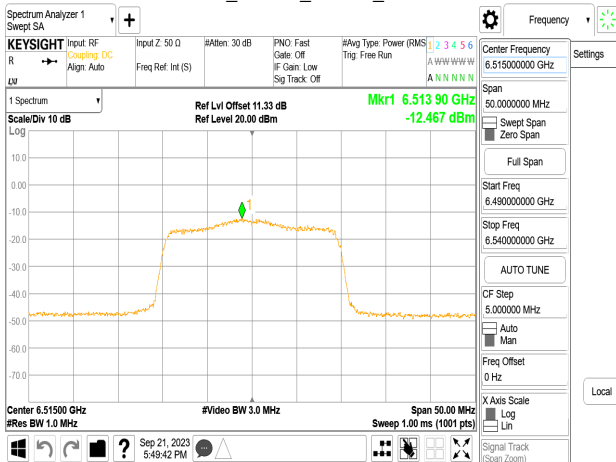
t (886-2) 2299-3279

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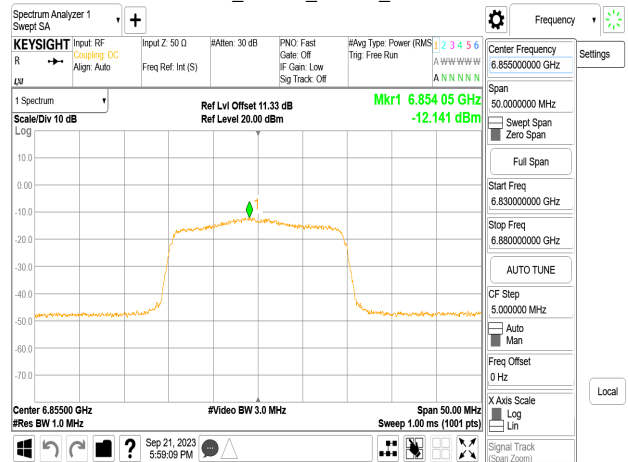
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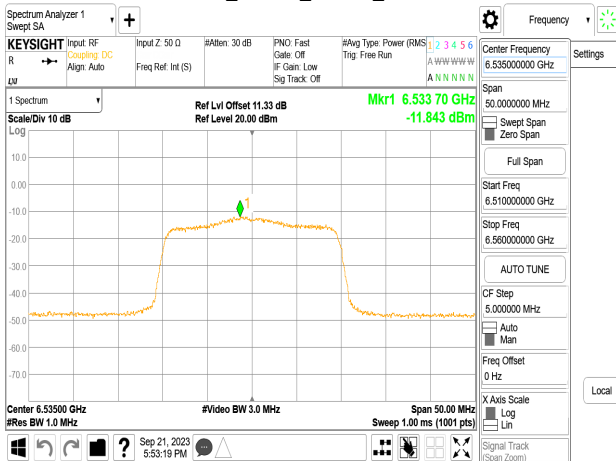
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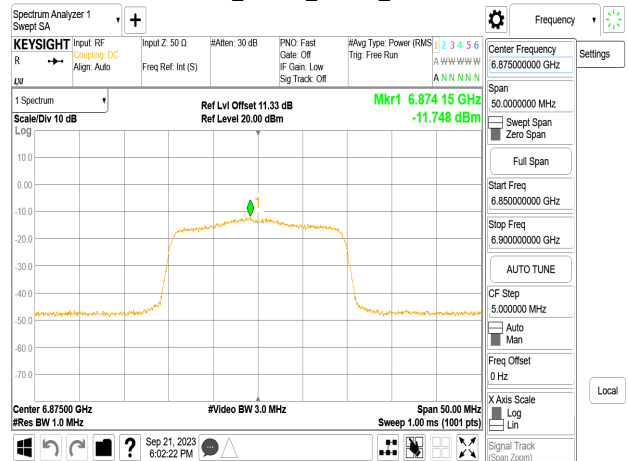
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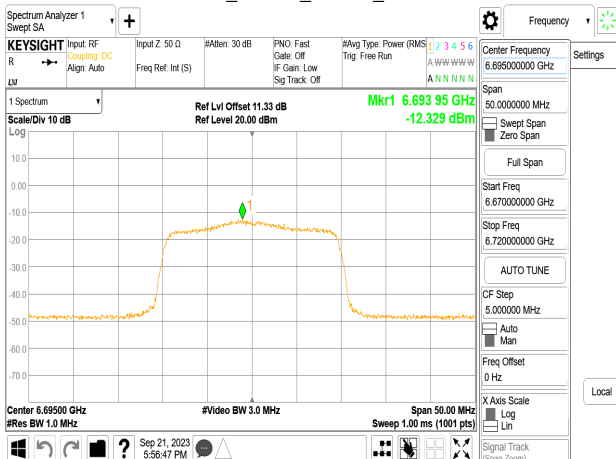
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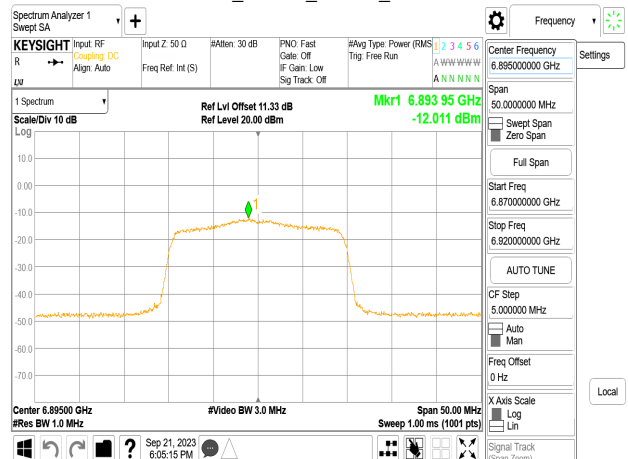
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802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6895MHz



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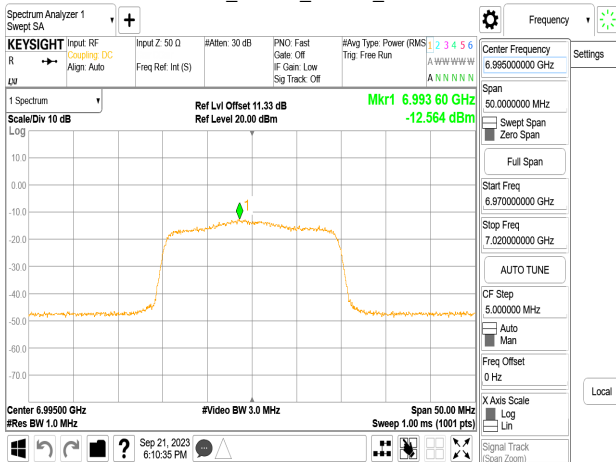
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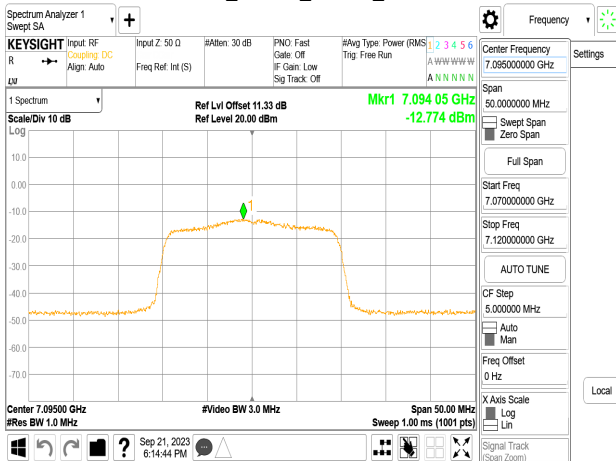
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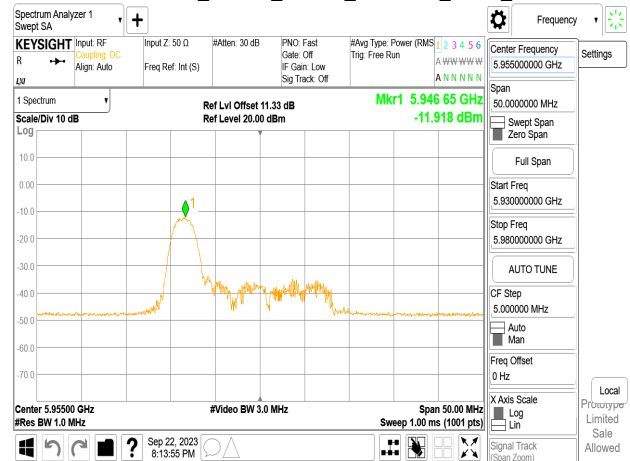
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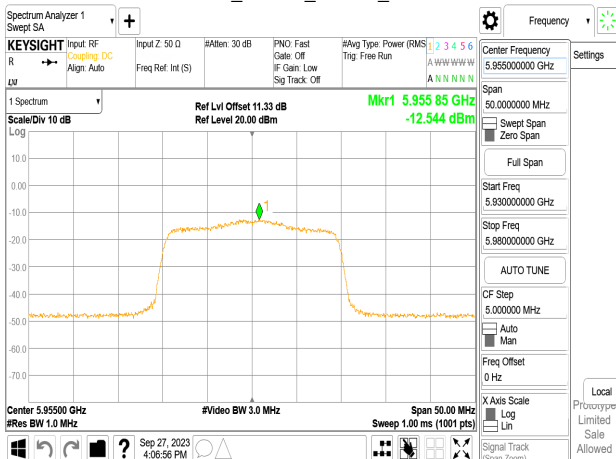
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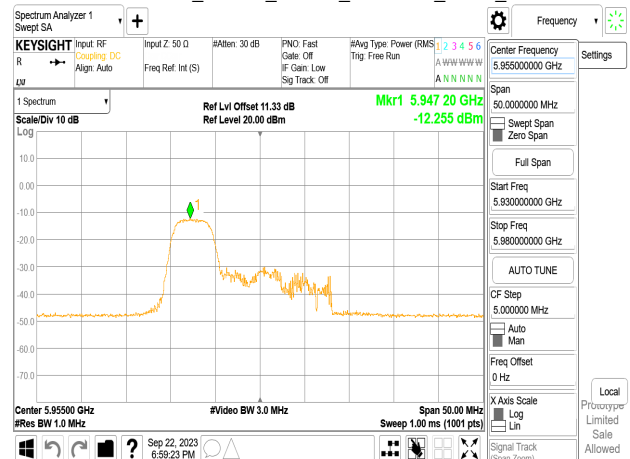
802.11ax_20MHz_Chain0_5955MHz_RU26_0



802.11ax_20MHz_Chain0_5955MHz



802.11ax_20MHz_Chain0_5955MHz_RU52_37



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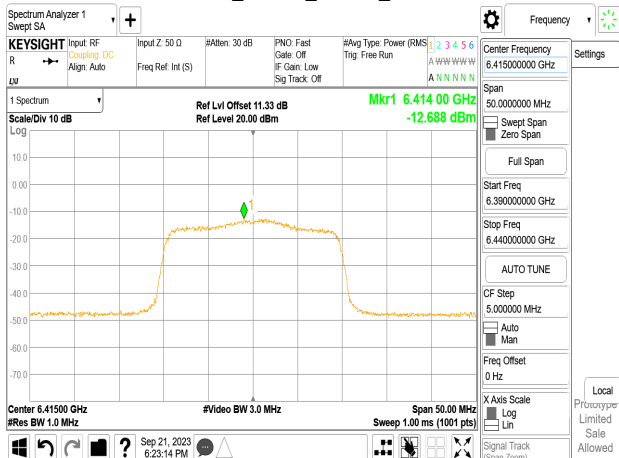
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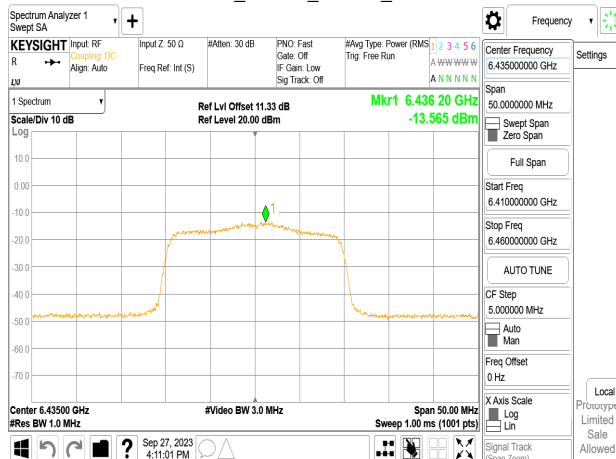
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802.11ax_20MHz_Chain0_6415MHz_RU106_54



802.11ax_20MHz_Chain0_6435MHz



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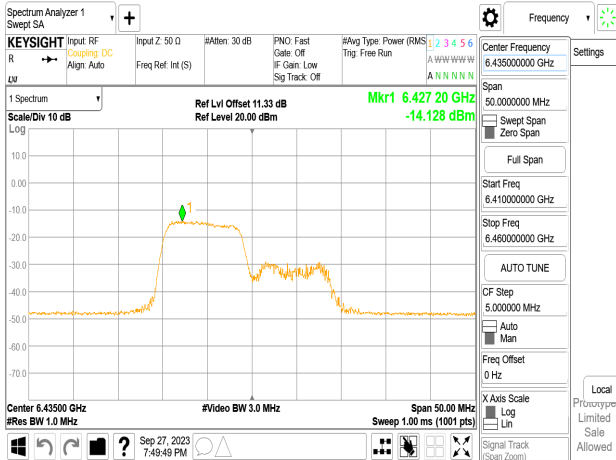
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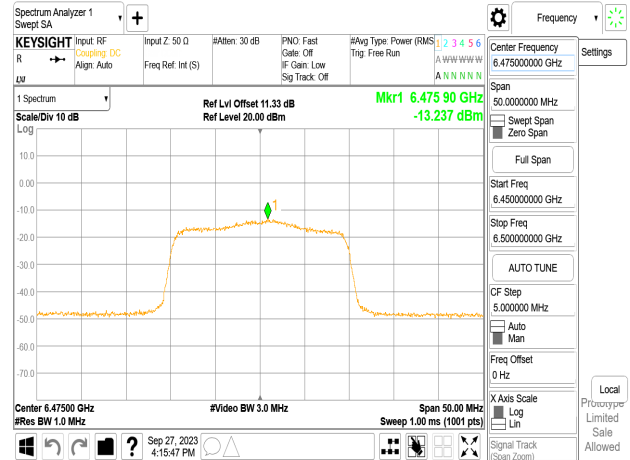
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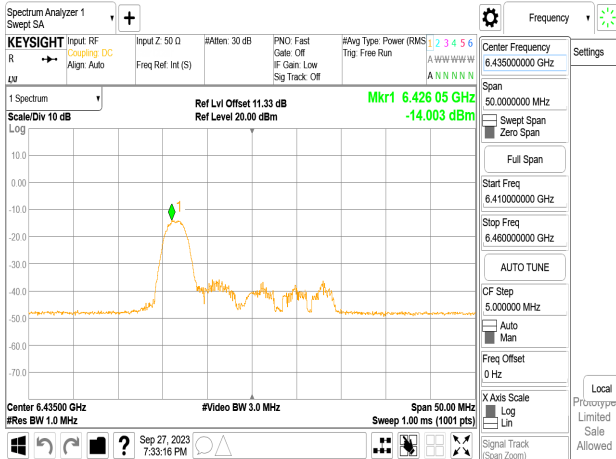
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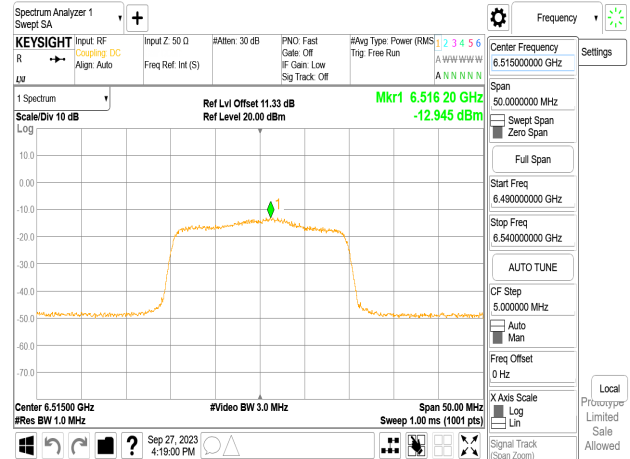
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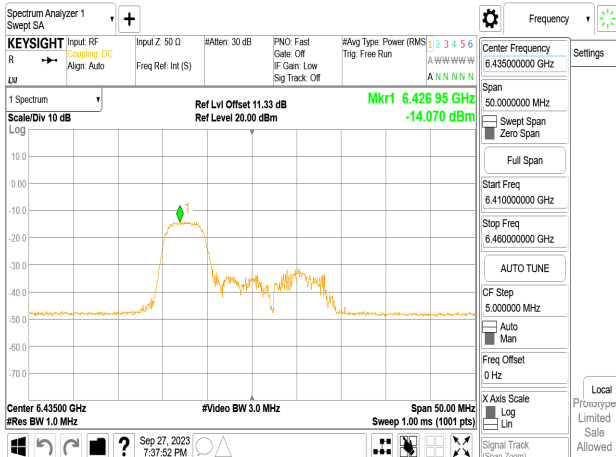
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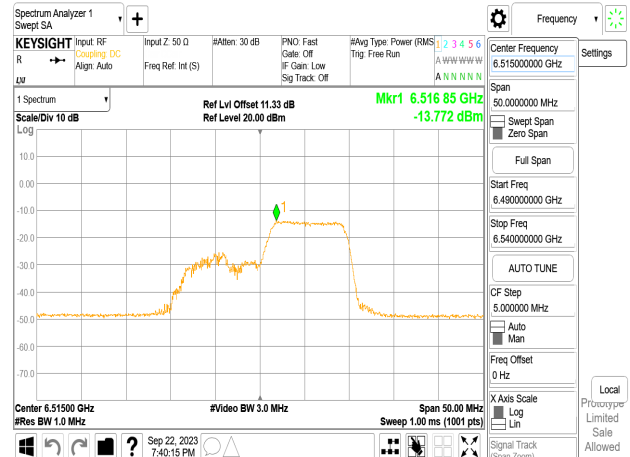
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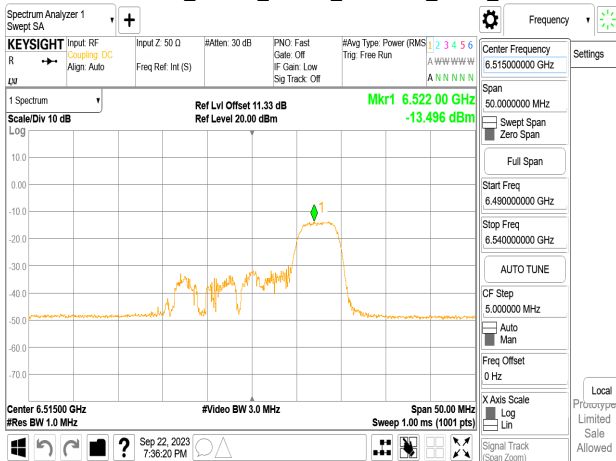
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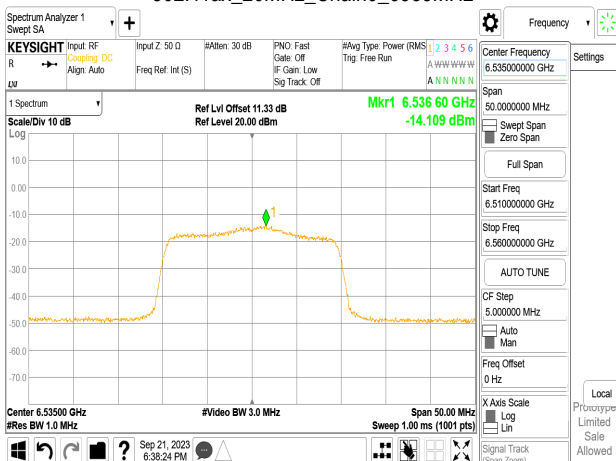
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802.11ax_20MHz_Chain0_6535MHz



802.11ax_20MHz_Chain0_6535MHz_RU52_37



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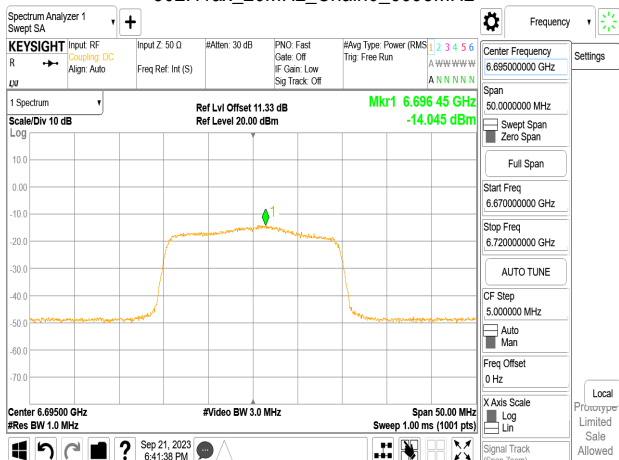
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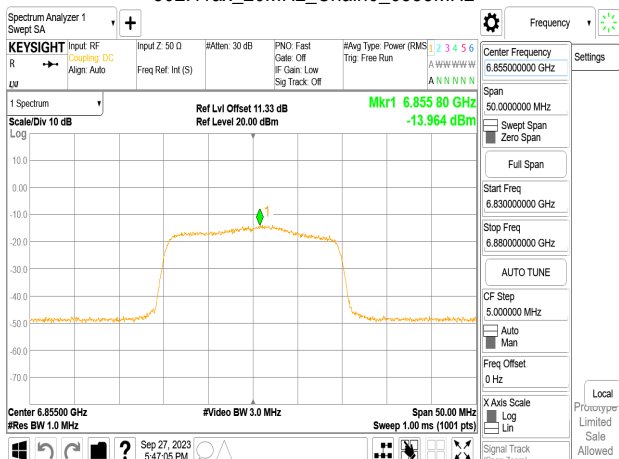
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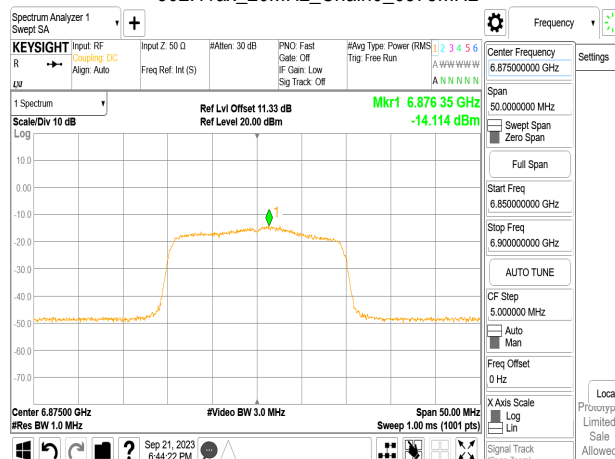
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802.11ax_20MHz_Chain0_6855MHz_RU106_54



802.11ax_20MHz_Chain0_6875MHz



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