



RADIO TEST REPORT

FCC ID : UDX-600216020
Equipment : Cisco Wireless 9179F Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9179F
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Nov. 29, 2024, and testing was started from Dec. 18, 2024 and completed on May 09, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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History of this test report

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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	Data Referencing
3.3	15.407(a)	Maximum Output Power	PASS	Data Referencing
3.4	15.407(a)	Power Spectral Density	PASS	Data Referencing
3.5	15.407(b)	Unwanted Emissions	PASS	Data Referencing

Data Referencing Statement:

This report references test data from the parent device (Original Sporton Report No.: FR4N2714-02AG, FCC ID: UDX-600216010).

The variant device (FCC ID: UDX-600216020) is electrically identical to the parent device for the portions of the circuitry corresponding to the data referencing.

The differences compared to the parent device are as follows:

1. Add Smart Cover-Secure and contact Weatherizes.
2. Change to outdoor by software.
3. Change the label location.
4. Disable UWB by software.

The details of spot-check testing are at the discretion of the applicant's engineering judgment. Accordingly, only the following items were spot-checked on the worst-case channel identified in the original report, and all results are included in this report:

1. Maximum Output Power
2. Power Spectral Density
3. Unwanted Emissions

The applicant takes full responsibility that the test data as referenced in FCC ID: UDX-600216010 represents compliance with the new FCC ID: UDX-600216020.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.

Reviewed by: Sam Chen

Report Producer: Sophia Shiung



1 General Description

1.1 Information

1.1.1 RF General Information

<Radio 1>

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5850	a, n (HT20), ac (VHT20), ax (HEW20)	5745-5825	149-165 [5]
5725-5850	n (HT40), ac (VHT40), ax (HEW40)	5755-5795	151-159 [2]
5725-5850	ac (VHT80), ax (HEW80)	5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11a	20	1TX
5.725-5.85GHz	802.11n HT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11ax HEW20	20	1TX
5.725-5.85GHz	802.11n HT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ax HEW40	40	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11ax HEW80	80	1TX

**<Radio 3>**

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5850	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	5745-5825	149-165 [5]
5725-5850	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5755-5795	151-159 [2]
5725-5850	ac (VHT80), ax (HEW80), be (EHT80)	5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11a	20	1, 2, 4TX
5.725-5.85GHz	802.11n HT20	20	1, 2, 4TX
5.725-5.85GHz	802.11n HT20-BF	20	2, 4TX
5.725-5.85GHz	802.11ac VHT20	20	1, 2, 4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2, 4TX
5.725-5.85GHz	802.11ax HEW20	20	1, 2, 4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2, 4TX
5.725-5.85GHz	802.11be EHT20	20	1, 2, 4TX
5.725-5.85GHz	802.11be EHT20-BF	20	2, 4TX
5.725-5.85GHz	802.11n HT40	40	1, 2, 4TX
5.725-5.85GHz	802.11n HT40-BF	40	2, 4TX
5.725-5.85GHz	802.11ac VHT40	40	1, 2, 4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2, 4TX
5.725-5.85GHz	802.11ax HEW40	40	1, 2, 4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2, 4TX
5.725-5.85GHz	802.11be EHT40	40	1, 2, 4TX
5.725-5.85GHz	802.11be EHT40-BF	40	2, 4TX
5.725-5.85GHz	802.11n HT80	80	1, 2, 4TX
5.725-5.85GHz	802.11n HT80-BF	80	2, 4TX
5.725-5.85GHz	802.11ac VHT80	80	1, 2, 4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2, 4TX
5.725-5.85GHz	802.11ax HEW80	80	1, 2, 4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2, 4TX
5.725-5.85GHz	802.11be EHT80	80	1, 2, 4TX
5.725-5.85GHz	802.11be EHT80-BF	80	2, 4TX

For MRU (Static preamble puncturing):

Multi-RU:

RU-tone	Bandwidth (MHz)			5GHz Test CH
				UNII-3
	80			CH155
242+242(MCS0)	242		242	V
242+242(MCS4)	242		242	V
484+242(MCS0)	484		242	V
484+242(MCS4)	484		242	V

Puncturing:

RU-tone	Configuration	Bandwidth (MHz)			5GHz Test CH
					UNII-3
		80			CH155
484+242	1		242	484	V
	2	242		484	V
	3	484		242	V
	4	484		242	V

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40, EHT80 and EHT160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Worst case of MRU (Static preamble puncturing) evaluation procedure

1. Complete test Full RU BE & PSD
2. Measure the PSD of each MRU (static preamble puncturing) by conducted method and it is less than the Full RU conducted PSD.
3. Measure the Band edge emission of each MRU (static preamble puncturing) by conducted method and find out the MRU (static preamble puncturing) worst case configuration.
4. Follow step 3 to find the worst MRU (static preamble puncturing) configuration and perform radiated BE/RSE testing
5. Confirm whether the worst MRU (static preamble puncturing) configuration setting in step 3 and step 4 is the same. If there is a channel where the setting drops due to the test in step 4, the PSD of MRU (static preamble puncturing) needs to be reduced.



1.1.3 Antenna Information

<Internal Antenna>

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	WNC	57XPAD15.LAU	Dipole	U.FL	Radio 1
2	WNC	57XPAD15.MAU	Dipole	U.FL	
3	WNC	57XPAD15.AAU	Dipole	U.FL	Radio 2
4	WNC	57XPAD15.BAU	Dipole	U.FL	
5	WNC	57XPAD15.CAU	Dipole	U.FL	
6	WNC	57XPAD15.DAU	Dipole	U.FL	
7	WNC	57XPAD15.HAU	Dipole	U.FL	Radio 3
8	WNC	57XPAD15.HAU	Dipole	U.FL	
9	WNC	57XPAD15.IAU	Dipole	U.FL	
10	WNC	57XPAD15.IAU	Dipole	U.FL	
11	WNC	57XPAD15.JAU	Dipole	U.FL	Radio 4
12	WNC	57XPAD15.JAU	Dipole	U.FL	
13	WNC	57XPAD15.KAU	Dipole	U.FL	
14	WNC	57XPAD15.KAU	Dipole	U.FL	
15	WNC	57XPAD15.EAU	Dipole	U.FL	Radio 5
16	WNC	57XPAD15.EAU	Dipole	U.FL	
17	WNC	57XPAD15.FAU	Dipole	U.FL	
18	WNC	57XPAD15.FAU	Dipole	U.FL	
19	WNC	57XPAD15.NAU	Loop	U.FL	Radio 6
20	WNC	57XPAD15.PAU	PIFA	U.FL	Radio 7
21	WNC	57XPAD15.0DG	PIFA	U.FL	
22	WNC	57XPAD15.OAU	Patch	U.FL	Radio 8
23	WNC	57XPAD15.OAU	Patch	U.FL	

Ant.	Port	Gain (dBi)					Support
		WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz		
			UNII 1~2A	UNII 2C~3	UNII 5	UNII 7	
1	1	3.7	4.9	6.1	5.0	5.8	Radio 1
2	2	5.1	4.5	5.2	5.5	6.4	
3	1	5.0	-	-	-	-	Radio 2
4	2	4.3	-	-	-	-	
5	3	5.1	-	-	-	-	
6	4	5.3	-	-	-	-	



Ant.	Port	Gain (dBi)					Support
		WLAN 5GHz					
		Mode	UNII 1	UNII 2A	UNII 2C	UNII 3	
7	3	Boresight	9.3	9.4	9.7	9.8	Radio 3
		Steering	9.4	9.4	10.0	10.0	
8	4	Boresight	10.3	10.3	10.6	10.2	
		Steering	10.2	10.2	10.6	10.3	
9	2	Boresight	9.6	9.9	10.3	9.9	
		Steering	9.9	9.8	10.3	10.1	
10	1	Boresight	10.4	10.6	10.7	10.4	
		Steering	10.3	10.7	10.6	10.4	

Ant.	Port	Gain (dBi)			Support
		WLAN 6GHz			
		Mode	UNII 5	UNII 7	
11	3	Narrow Beam	9.2	9.0	Radio 4
		Wide Beam	5.4	5.3	
12	4	Narrow Beam	9.2	8.7	
		Wide Beam	5.1	5.2	
13	2	Narrow Beam	10.0	9.8	
		Wide Beam	6.4	6.5	
14	1	Narrow Beam	9.8	10.1	
		Wide Beam	5.6	6.2	

Ant.	Port	Gain (dBi)						Support
		WLAN 5GHz			Bluetooth / Zigbee	UWB	GPS	
		Mode	UNII 1	UNII 2A				
15	2	Boresight	8.6	8.8	-	-	-	Radio 5
		Steering	8.5	9.0	-	-	-	
16	1	Boresight	9.4	9.4	-	-	-	
		Steering	9.4	9.4	-	-	-	
17	4	Boresight	8.7	9.3	-	-	-	
		Steering	8.8	9.2	-	-	-	
18	3	Boresight	8.5	9.0	-	-	-	
		Steering	8.5	9.0	-	-	-	
19	1	-	-	-	6.1	-	-	Radio 6
20	1	-	-	-	-	-	3.8	Radio 7
21	1	-	-	-	-	-	3.5	
22	2	-	-	-	-	8.2	-	Radio 8
23	1	-	-	-	-	8.6	-	


<External Antenna>

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support
1	1~4	CISCO	AIR-ANT2588P4M-NS	(Panel) Dual-polarized directional	N-Female Bulkhead	Radio 2, Radio 5
2	1~4	CISCO	AIR-ANT2566D4M-R	(Patch) Dual-Band Polarization-Diverse Directional Array	RP-TNC (with coupling ring)	
3	1~4	CISCO	AIR-ANT2566D4M-RS	(Patch) Dual-Band Polarization-Diverse Directional Array	RP-TNC (with coupling ring)	
4	1~4	CISCO	AIR-ANT2566P4W-R	(Patch) 4-element dual-band MIMO	RP-TNC	
5	1~4	CISCO	AIR-ANT2566P4W-RS	(Patch) 4-element dual-band MIMO	RP-TNC	
6	1~4	CISCO	CW-ANT-T-D3-N	Dipole	RP-TNC	Radio 7
7	1	CISCO	CW-ANT-GPS1-M-00	OMNI	MMCX	

Ant.	Gain (dBi)					Support
	Pol	WLAN 2.4GHz				
		Peak Gain	Internal Cable Loss	External Cable Loss	Net Gain	
1	V-Pol*2	9.1	0.83	0.5	7.77	Radio 2
	H-Pol*2	7.1	0.83		5.77	
2~3	V-Pol*2	6	0.83	-	5.17	
	H-Pol*2	6	0.83	-	5.17	
4~5	V-Pol*4	6	0.83	-	5.17	
6	-	6	0.83	-	5.17	

Ant.	Gain (dBi)					Support
	Pol	WLAN 5GHz				
		Peak Gain	Internal Cable Loss	External Cable Loss	Net Gain	
1	V-Pol*2	9.6	1.29	0.8	7.51	Radio 5
	H-Pol*2	7.8	1.29		5.71	
2~3	V-Pol*2	6	1.29	-	4.71	
	H-Pol*2	6	1.29	-	4.71	
4~5	V-Pol*4	6	1.29	-	4.71	
6	-	7.5	1.29	-	6.21	

Ant.	Gain (dBi)	Support
	GPS	
7	5	Radio 7

Note 1: The Manufacturer declared that the internal Ant. 22~23 (Radio 8) will not function when the EUT is used.

Note 2: The above information was declared by manufacturer.

Note 3: For external Ant. 1~6:

For radiated measurement: The external Ant. 1, 5 and 6 with the highest antenna gain for each type were selected for testing.

For conducted measurement:

NonTXBF power: The external Ant. 1 with the highest antenna gain was selected for testing.

NonTXBF PSD / TXBF power & PSD:

2.4GHz: The external Ant. 4 with the highest antenna array gain was selected for testing.

5GHz: The external Ant. 6 with the highest antenna array gain was selected for testing.

Note 4: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where;

For nonTXBF power:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	2.4G External	2TX	7.77	5.77	-	-	7.77	Cross-Polarized Antenna
		4TX	7.77	5.77	7.77	5.77	7.77	
	2.4G Internal	2TX	5	4.3	-	-	5	
		4TX	5	4.3	5.1	5.3	5.3	
3	5G UNII 1 (Note 5)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.4	10.3	10.4	
	5G UNII 1 (Boresight)	2TX	10.4	9.6	-	-	10.4	
		4TX	10.4	9.6	9.3	10.3	10.4	
	5G UNII 2A (Note 5)	2TX	10.7	9.9	-	-	10.7	
		4TX	10.7	9.9	9.4	10.3	10.7	
	5G UNII 2A (Boresight)	2TX	10.6	9.9	-	-	10.6	
		4TX	10.6	9.9	9.4	10.3	10.6	
	5G UNII 2C (Note 5)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	10	10.6	10.7	
	5G UNII 2C (Boresight)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	9.7	10.6	10.7	
	5G UNII 2C (Steering)	2TX	10.6	10.3	-	-	10.6	
		4TX	10.6	10.3	10	10.6	10.6	



Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
3	5G UNII 3 (Note 5)	2TX	10.4	10.1	-	-	10.4	Cross-Polarized Antenna
		4TX	10.4	10.1	10	10.3	10.4	
	5G UNII 3 (Boresight)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.8	10.2	10.4	
	5G UNII 3 (Steering)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	10.4	
4	6G UNII 5 (Narrow Beam)	2TX	9.8	10	-	-	10	
		4TX	9.8	10	9.2	9.2	10	
	6G UNII 5 (Wide Beam)	2TX	5.6	6.4	-	-	6.4	
		4TX	5.6	6.4	5.4	5.1	6.4	
	6G UNII 7 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	10.1	
	6G UNII 7 (Wide Beam)	2TX	6.2	6.5	-	-	6.5	
		4TX	6.2	6.5	5.3	5.2	6.5	
5	5G UNII 1~2A External	2TX	7.51	5.71	-	-	7.51	
		4TX	7.51	5.71	7.51	5.71	7.51	
	5G UNII 1 Internal (Note 5)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.8	9.4	
	5G UNII 1 Internal (Boresight)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.7	9.4	
	5G UNII 1 Internal (Steering)	2TX	9.4	8.5	-	-	9.4	
		4TX	9.4	8.5	8.5	8.8	9.4	
	5G UNII 2A Internal (Note 5)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.3	9.4	
	5G UNII 2A Internal (Boresight)	2TX	9.4	8.8	-	-	9.4	
		4TX	9.4	8.8	9	9.3	9.4	
	5G UNII 2A Internal (Steering)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.2	9.4	

For nonTXBF PSD / TXBF power & PSD:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	2.4G External	2TX	5.17	5.17	-	-	8.18	-
		4TX	5.17	5.17	5.17	5.17	11.19	
	2.4G Internal	2TX	5	4.3	-	-	5	Cross-Polarized Antenna
		4TX	5	4.3	5.1	5.3	7.95	
3	5G UNII 1 (Note 5)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.4	10.3	13.02	
	5G UNII 1 (Boresight)	2TX	10.4	9.6	-	-	10.4	
		4TX	10.4	9.6	9.3	10.3	12.93	
	5G UNII 2A (Note 5)	2TX	10.7	9.9	-	-	10.7	
		4TX	10.7	9.9	9.4	10.3	13.11	
	5G UNII 2A (Boresight)	2TX	10.6	9.9	-	-	10.6	
		4TX	10.6	9.9	9.4	10.3	13.08	
	5G UNII 2C (Note 5)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	10	10.6	13.42	
	5G UNII 2C (Boresight)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	9.7	10.6	13.35	
	5G UNII 2C (Steering)	2TX	10.6	10.3	-	-	10.6	
		4TX	10.6	10.3	10	10.6	13.31	
	5G UNII 3 (Note 5)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	13.21	
4	6G UNII 5 (Narrow Beam)	2TX	9.8	10	-	-	10	Cross-Polarized Antenna
		4TX	9.8	10	9.2	9.2	12.57	
	6G UNII 5 (Wide Beam)	2TX	5.6	6.4	-	-	6.4	
		4TX	5.6	6.4	5.4	5.1	8.66	
	6G UNII 7 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	12.45	
	6G UNII 7 (Wide Beam)	2TX	6.2	6.5	-	-	6.5	
		4TX	6.2	6.5	5.3	5.2	8.85	
5	5G UNII 1~2A External	2TX	6.21	6.21	-	-	9.22	-
		4TX	6.21	6.21	6.21	6.21	12.23	
	5G UNII 1 Internal (Note 5)	2TX	9.4	8.6	-	-	9.4	Cross-Polarized Antenna
		4TX	9.4	8.6	8.5	8.8	12.19	
	5G UNII 1 Internal (Boresight)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.7	11.82	
	5G UNII 1 Internal (Steering)	2TX	9.4	8.5	-	-	9.4	
		4TX	9.4	8.5	8.5	8.8	11.82	



Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
5	5G UNII 2A Internal (Note 5)	2TX	9.4	9	-	-	9.4	Cross- Polarized Antenna
		4TX	9.4	9	9	9.3	12.19	
	5G UNII 2A Internal (Boresight)	2TX	9.4	8.8	-	-	9.4	
		4TX	9.4	8.8	9	9.3	12.14	
	5G UNII 2A Internal (Steering)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.2	12.16	

Note 5: For RF Conducted: For internal Ant. 7~10 and Ant. 15~18, only the mode with higher antenna gain between Boresight mode and Steering mode was selected to record in this column and to perform all the test items, except for RF exposure tests.

Note 6: **<Radio 1>**

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

<Radio 2>

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be (1TX, 2TX, 4TX/4RX):

1TX:

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

**<Radio 3>****For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 4>**For 6GHz function:****For IEEE 802.11 ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 5>**For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 6>**For Bluetooth function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For Zigbee function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

**<Radio 7>****For GPS function (1RX):**

The EUT supports the antenna with RX diversity functions.

Internal Ant. 20~21 and external Ant. 7 can be used as receiving antenna, but only one of them will be used at one time.

1.1.4 Mode Test Duty Cycle**<Radio 1>**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a	0.933	0.3	1.977m	1k
802.11ax HEW20	0.808	0.93	5.447m	300
802.11ax HEW40	0.807	0.93	5.447m	300
802.11ax HEW80	0.807	0.93	5.445m	300

<Radio 3>**For Full RU:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.993	0.03	1.981m	10Hz (DC>=0.98)
802.11be EHT20_Nss 1,(M0)	0.998	0.01	5.456m	10Hz (DC>=0.98)
802.11be EHT40_Nss 1,(M0)	0.997	0.01	5.456m	10Hz (DC>=0.98)
802.11be EHT80_Nss 1,(M0)	0.997	0.01	5.456m	10Hz (DC>=0.98)

For MRU (Static preamble puncturing):**Multi-RU:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.851	0.7	2.744m	500
802.11be EHT80_Nss1,(MCS0),RU242+RU242	0.875	0.58	2.744m	500

Puncturing:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.997	0.01	5.452m	10

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

**1.1.5 EUT Operational Condition**

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax/be in 2.4GHz (Radio 2), n/ac/ax/be in 5GHz (Radio 3 and Radio 5) and ax/be in 6GHz (Radio 4).			
Channel Puncturing Function	☒	Supported Static Puncturing in Radio 3		
	☐	Supported Dynamic Puncturing		
	☒	Unsupported in Radio 1		
Support RU	☒	Full RU in Radio 1 and 3	☒	Partial RU in Radio 3
Test Software Version	Non-beamforming mode: QSPR Version 6.00.00142.1 Beamforming mode: DOS[10.0.19045.4780]			

Note: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

Equipment Name	Model Name	BW of 5G Mode (MHz)	Radio 3	SW	Frequencies supported by 320MHz (MHz)
Cisco Wireless 9179F Series Wi-Fi 7 Access Point	CW9179F	20/40/80/160	UNII 1~3/ UNII 2C~3	Cisco	Not Support
		20/40/80	UNII 2C~3	Meraki	6105

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT Support Function

Function	Supports Band
AP	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5&7, Bluetooth, Zigbee and GPS
Mesh	6GHz UNII 5&7

Note 1: Form above table list, only AP mode was tested and recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.8 Table for Radio Function

Function Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Zigbee	UWB	GPS
R1 (Scanning Radio)	✓	✓ (UNII 1~3)	✓	-	-	-	-
R2	✓	-	-	-	-	-	-
R3	-	✓ (Note 1) (Full band: UNII 1~3) (High band: UNII 2C~3)	-	-	-	-	-
R4	-	-	✓	-	-	-	-
R5	-	✓ (Low band: UNII 1~2A)	-	-	-	-	-
R6	-	-	-	✓	✓	-	-
R7	-	-	-	-	-	-	✓
R8	-	-	-	-	-	Unable to use	-

Note 1: For R3, the full band mode supports Boresight mode only, and the high band mode supports both Boresight mode and Steering mode.

Note 2: For WLAN 2.4GHz, R1 and R2 can't operate at the same frequency simultaneously.

For WLAN 5GHz, R1, R3 and R5 can't operate at the same frequency simultaneously.

For WLAN 6GHz, R1 and R4 can't operate at the same frequency simultaneously.

Note 3: The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Ederson Huang	23.2~24.9 / 61~64	Dec. 18, 2024~ Jan. 24, 2025
				Feb. 06, 2025~ Feb. 17, 2025
Radiated < 1GHz	03CH05-CB	Jackson Peng	21.9~22.4 / 60~62	Feb. 19, 2025~ Feb. 25, 2025
Radiated > 1GHz (Others for R1 & R3)	03CH06-CB	Jackson Peng	22.5~22.9 / 58~60	Feb. 06, 2025~ Feb. 08, 2025
AC Conduction	CO01-CB	Tim Chen	19~20 / 62~63	Apr. 25, 2025
Spot Check	TH03-CB	Ederson Huang	21.9~22.8 / 57~62	Apr. 24, 2025~ May 09, 2025

Note: The tested sample for AC Conduction and Spot Check tests were received on Dec. 18, 2024.



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Radio 1>

Mode
802.11a_Nss1,(6Mbps)_1TX
5745MHz
5785MHz
5825MHz
802.11ax HEW20_Nss1,(MCS0)_1TX
5745MHz
5785MHz
5825MHz
802.11ax HEW40_Nss1,(MCS0)_1TX
5755MHz
5795MHz
802.11ax HEW80_Nss1,(MCS0)_1TX
5775MHz

**<Radio 3>****For Full RU:**

Mode
802.11a_Nss1,(6Mbps)_1TX
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_1TX
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_1TX
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_1TX
5775MHz
802.11a_Nss1,(6Mbps)_2TX
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5775MHz
802.11a_Nss1,(6Mbps)_4TX
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5775MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX



Mode
5775MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5775MHz

For MRU (Static preamble puncturing):
Multi-RU:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5775MHz

Puncturing:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5775MHz

Note:

- ♦ For Radio 1: HEW20 / HEW40 / HEW80 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 is the same or lower than HEW20 / HEW40 / HEW80.
- ♦ For Radio 3: EHT20 / EHT40 / EHT80 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 / HEW20 / HEW40 / HEW80 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 / HEW20 / HEW40 / HEW80 is the same or lower than EHT20 / EHT40 / EHT80.
- ♦ For Radio 3: The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests								
Tests Item	AC power-line conducted emissions							
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz							
Operating Mode	Normal Link							
	1. The EUT performed the testing on "LAN 0" and "LAN 1" ports. The "LAN 1" port generated the worst case. Consequently, the measurement will follow this same test mode.							
	2. The EUT performed the testing with PoE 1~8. The "PoE 4" generated the worst case. Consequently, the measurement will follow this same test mode.							
	3. The EUT performed the testing with 2.4GHz, 5GHz and 6GHz in Radio 1. The 2.4GHz in Radio 1 generated the worst case. Consequently, the measurement will follow this same test mode.							
	4. The EUT performed the testing with Bluetooth and Zigbee in Radio 6. The Bluetooth in Radio 6 generated the worst case. Consequently, the measurement will follow this same test mode.							
	5. The EUT performed the testing with Internal Ant. 20, Internal Ant. 21 and External Ant. 7 for GPS function. The Internal Ant. 20 for GPS function generated the worst case. Consequently, the measurement will follow this same test mode.							
	6. The EUT performed the testing with Boresight mode and Steering mode in Radio 3. The Boresight mode in Radio 3 generated the worst case. Consequently, the measurement will follow this same test mode.							
	7. The EUT performed the testing with Narrow Beam mode and Wide Beam mode in Radio 4. The Narrow Beam mode in Radio 4 generated the worst case. Consequently, the measurement will follow this same test mode.							
	8. The EUT performed the testing with Internal Ant. (Boresight mode and Steering mode), External Ant. 1, External Ant. 5 and External Ant. 6 for Radio 5. The mode that Radio 5 is not functioning generated the worst case. Consequently, the measurement will follow this same test mode.							
	9. The EUT performed the testing with Internal Ant., External Ant. 1, External Ant. 5 and External Ant. 6 for Radio 2. The Internal Ant. for Radio 2 generated the worst case. Consequently, the measurement will follow this same test mode.							
	R1 (2.4GHz/ 5GHz/6GHz)	R2 (2.4GHz)	R3 (5GHz)	R4 (6GHz)	R5 (5GHz)	R6 (BT/ Zigbee)	R7 (GPS)	PoE
1	2.4GHz	Internal Ant.	Boresight	Narrow Beam	N/A	BT	Internal Ant. 20	1 (Test LAN 0)

The Worst Case Mode for Following Conformance Tests								
Tests Item	Emission Bandwidth							
Test Condition	Conducted measurement at transmit chains							
Operating Mode	1	EUT_R1: 5GHz						
	2	EUT_R3: 5GHz						



The Worst Case Mode for Following Conformance Tests		
Tests Item	Maximum Output Power	
Test Condition	Conducted measurement at transmit chains	
Operating Mode	1	EUT_R1: 5GHz
	2	EUT_R3: 5GHz

The Worst Case Mode for Following Conformance Tests		
Tests Item	Power Spectral Density	
Test Condition	Conducted measurement at transmit chains	
Operating Mode	1	EUT_R1: 5GHz
	2	EUT_R3: 5GHz_Full RU
	3	EUT_R3: 5GHz_Multi-RU
	4	EUT_R3: 5GHz_Puncturing

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R1: 2.4GHz + PoE 1
2	EUT in Y axis_R1: 2.4GHz + PoE 2
3	EUT in Y axis_R1: 2.4GHz + PoE 3
4	EUT in Y axis_R1: 2.4GHz + PoE 4
5	EUT in Y axis_R1: 2.4GHz + PoE 5
6	EUT in Y axis_R1: 2.4GHz + PoE 6
7	EUT in Y axis_R1: 2.4GHz + PoE 7
8	EUT in Y axis_R1: 2.4GHz + PoE 8
Mode 4 has been evaluated to be the worst case among Mode 1~8, so the measurement for Mode 9~25 will follow this same test mode.	
9	EUT in Y axis_R1: 5GHz + PoE 4
10	EUT in Y axis_R1: 6GHz + PoE 4
11	EUT in Y axis_R2: 2.4GHz (Internal Ant.) + PoE 4
12	EUT in Y axis_R3: 5GHz (Boresight) + PoE 4



13	EUT in Y axis_R4: 6GHz (Narrow Beam) + PoE 4
14	EUT in Y axis_R5: 5GHz (Internal Ant. - Boresight) + PoE 4
15	EUT in Y axis_R6: Bluetooth + PoE 4
16	EUT in Y axis_R6: Zigbee + PoE 4
17	EUT in Y axis_R3: 5GHz (Steering) + PoE 4
18	EUT in Y axis_R4: 6GHz (Wide Beam) + PoE 4
19	EUT in Y axis_R5: 5GHz (Internal Ant. - Steering) + PoE 4
20	EUT in Y axis_R2: 2.4GHz (External Ant. 1) + PoE 4
21	EUT in Y axis_R2: 2.4GHz (External Ant. 5) + PoE 4
22	EUT in Y axis_R2: 2.4GHz (External Ant. 6) + PoE 4
23	EUT in Y axis_R5: 5GHz (External Ant. 1) + PoE 4
24	EUT in Y axis_R5: 5GHz (External Ant. 5) + PoE 4
25	EUT in Y axis_R5: 5GHz (External Ant. 6) + PoE 4
For operating, mode 13 is the worst case and it was recorded in this test report.	
Operating Mode > 1GHz	CTX (Cabinet)
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R1: 5GHz
2	EUT in Y axis_R3: 5GHz

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Conducted measurement at transmit chains
Operating Mode > 1GHz	CTX (Harmonic & Bandedge)
1	EUT_R1: 5GHz
2	EUT_R3: 5GHz_Full RU
3	EUT_R3: 5GHz_Multi-RU
4	EUT_R3: 5GHz_Puncturing



The Worst Case Mode for Following Conformance Tests								
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation							
Operating Mode	R1 (2.4GHz/5GHz/ 6GHz)	R2 (2.4GHz)	R3 (5GHz UNII 1~3/ 5GHz UNII 2C~3)	R4 (6GHz)	R5 (5GHz)	R6 (BT/Zigbee)		
1	2.4GHz	Internal Ant.	Full band: UNII 1~3 (Boresight)	Narrow Beam	N/A	BT		
2	5GHz							
3	6GHz							
4	2.4GHz					Zigbee		
5	5GHz							
6	6GHz							
7	2.4GHz		High band: UNII 2C~3 (Steering)	Wide Beam	Internal Ant. (Steering)	BT		
8	5GHz							
9	6GHz							
10	2.4GHz					Zigbee		
11	5GHz							
12	6GHz							
13	2.4GHz	External Ant.	High band: UNII 2C~3 (Boresight)	Narrow Beam	External Ant.	BT		
14	5GHz							
15	6GHz							
16	2.4GHz					Zigbee		
17	5GHz							
18	6GHz							
19	2.4GHz	Internal Ant.					Internal Ant. (Boresight)	BT
20	5GHz							
21	6GHz							
22	2.4GHz							Zigbee
23	5GHz							
24	6GHz							
Refer to Sporton Test Report No.: FA4N2715-01 for Co-location RF Exposure Evaluation.								

Refer to Sporton Test Report No.: FA4N2715-01 for Co-location RF Exposure Evaluation.

Note: The PoEs were for measurement only and would not be marketed. Their information is shown as below:

Equipment	Brand	Model Name
PoE 1	Microsemi	PD-9001GR/AT/AC
PoE 2	PHIHONG	POE29U-1AT(PL)
PoE 3	DELTA	ADH-65AR B
PoE 4	PHIHONG	POEA33U-1ATE
PoE 5	PHIHONG	POE60U-1BT-X



Equipment	Brand	Model Name
PoE 6	PHIHONG	POE60U-BTA(X66M-R)
PoE 7	PHIHONG	POE60U-BTA(X664-R)
PoE 8	DELTA	ADH-65AR P

2.3 EUT Operation during Test

For CTX Mode:

For Conducted Mode:

Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

Beamforming mode:

During the test, the following programs under WIN 10 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "DOS[10.0.19045.4780]" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Radiated Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Solar shield*1 (Optional)

Bracket*1 (Optional)

Bay cover*1

Rubber gland*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 4 (1)	PHIHONG	POEA33U-1ATE	N/A
B	2.4G NB	DELL	E6400	N/A
C	5G NB	DELL	E6400	N/A
D	6G module	MTK	MT7927	N/A
E	6G NB	DELL	E6400	N/A
F	GPS Simulator	WELNAVIGATE	GS-100	N/A
G	LAN1 PC	ASUS	S300TA	TX2-RTL8821CE
H	PoE 4 (2)	PHIHONG	POEA33U-1ATE	N/A
I	LAN0 PC	ASUS	S300TA	TX2-RTL8821CE
J	Smart phone	REDMI	M1810F6LH	2AFZZ-RMSF6LG

For Radiated < 1GHz, Radiated > 1GHz (Others for R1 & R3), RF Conducted (Non-beamforming mode) and Spot Check:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A

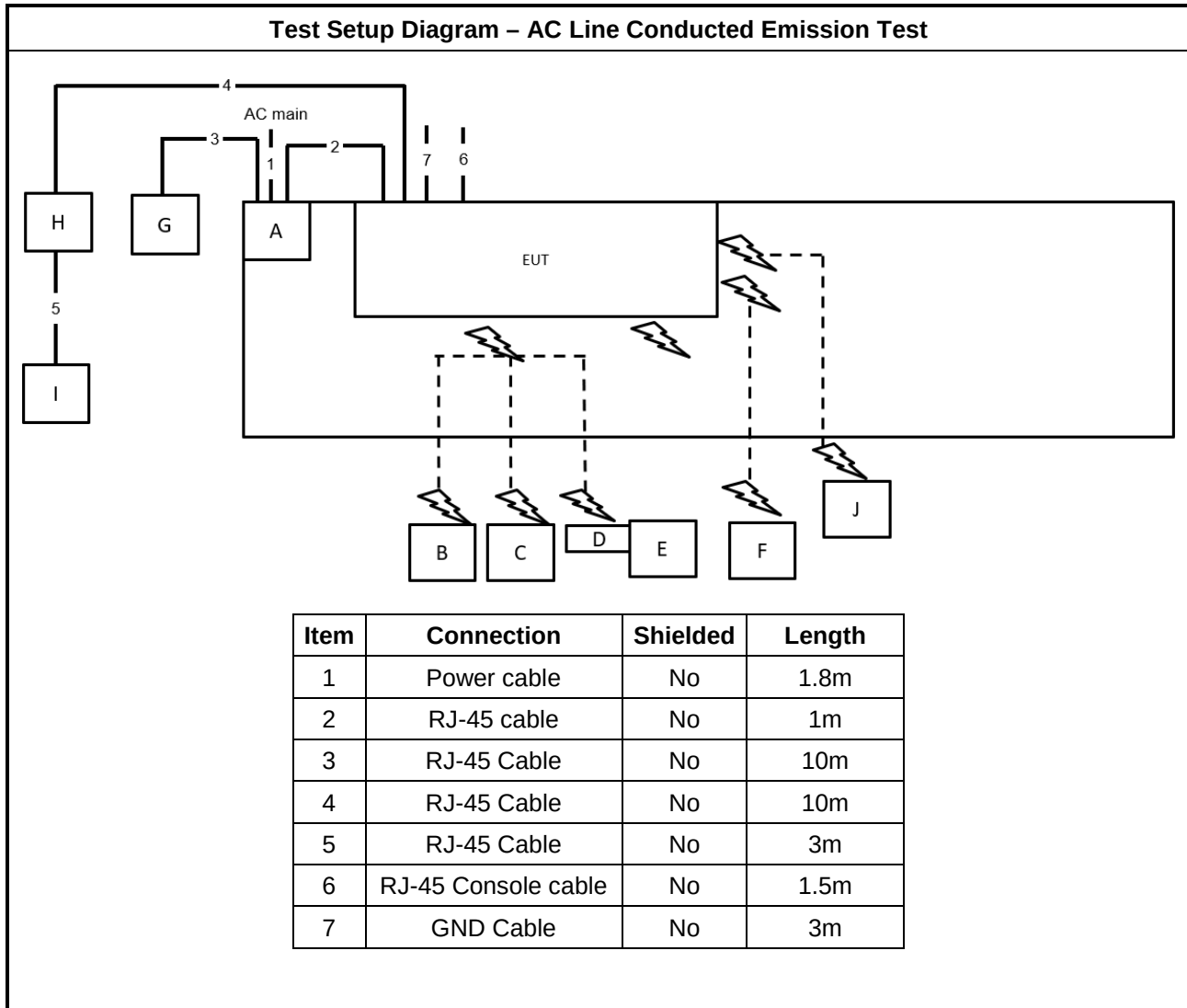
For Radiated (Co-location):

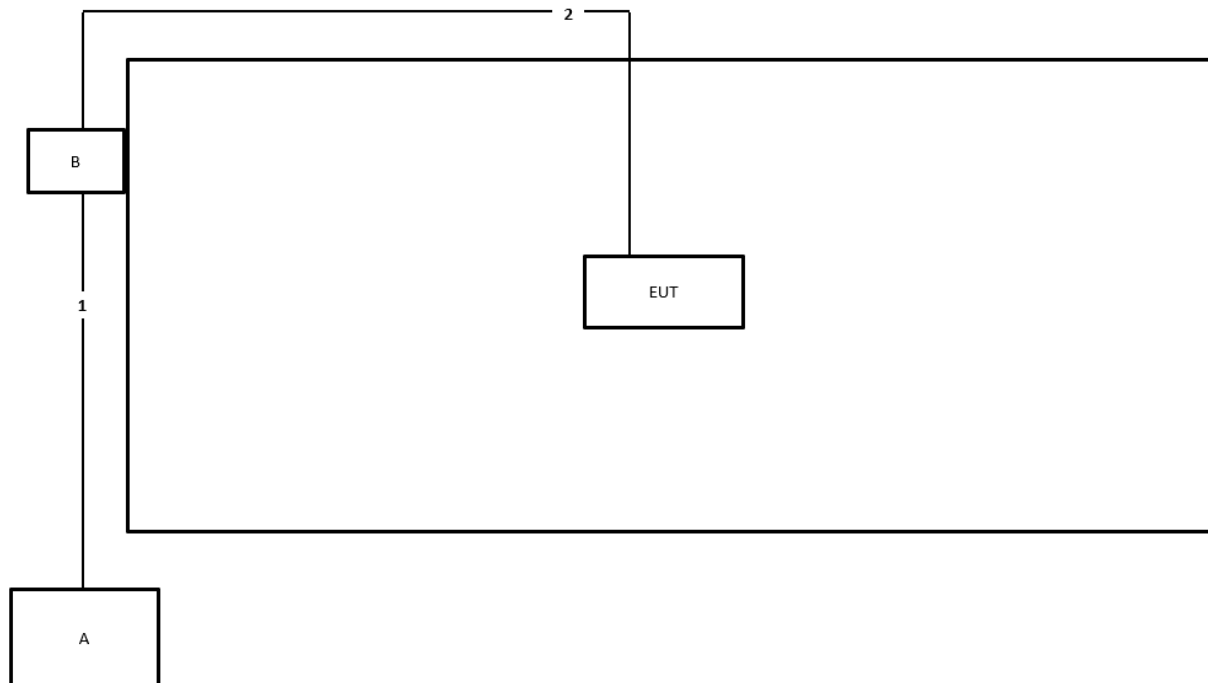
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A
C	NB	DELL	E4300	N/A
D	PoE	CISCO	MA-INJ-5	N/A
E	Client	CISCO	Alpine	N/A

**For RF Conducted (Beamforming mode):**

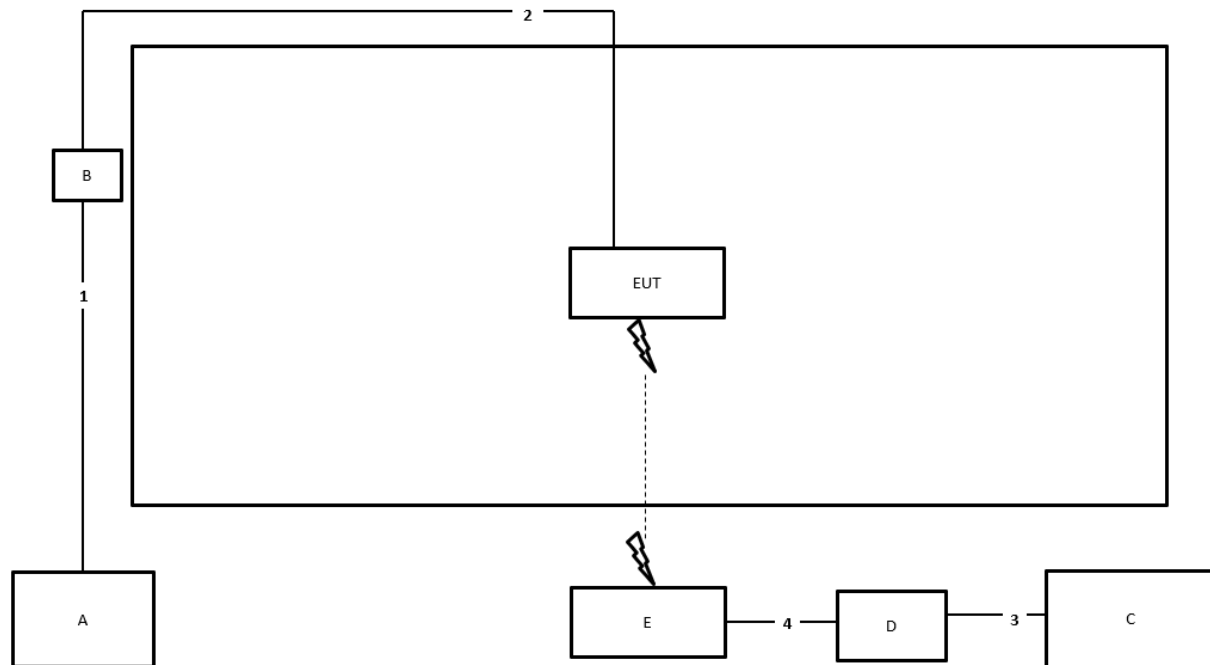
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A
C	NB	DELL	E4300	N/A
D	Client	CISCO	Alpine	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test (Others)


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test (Co-location)


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

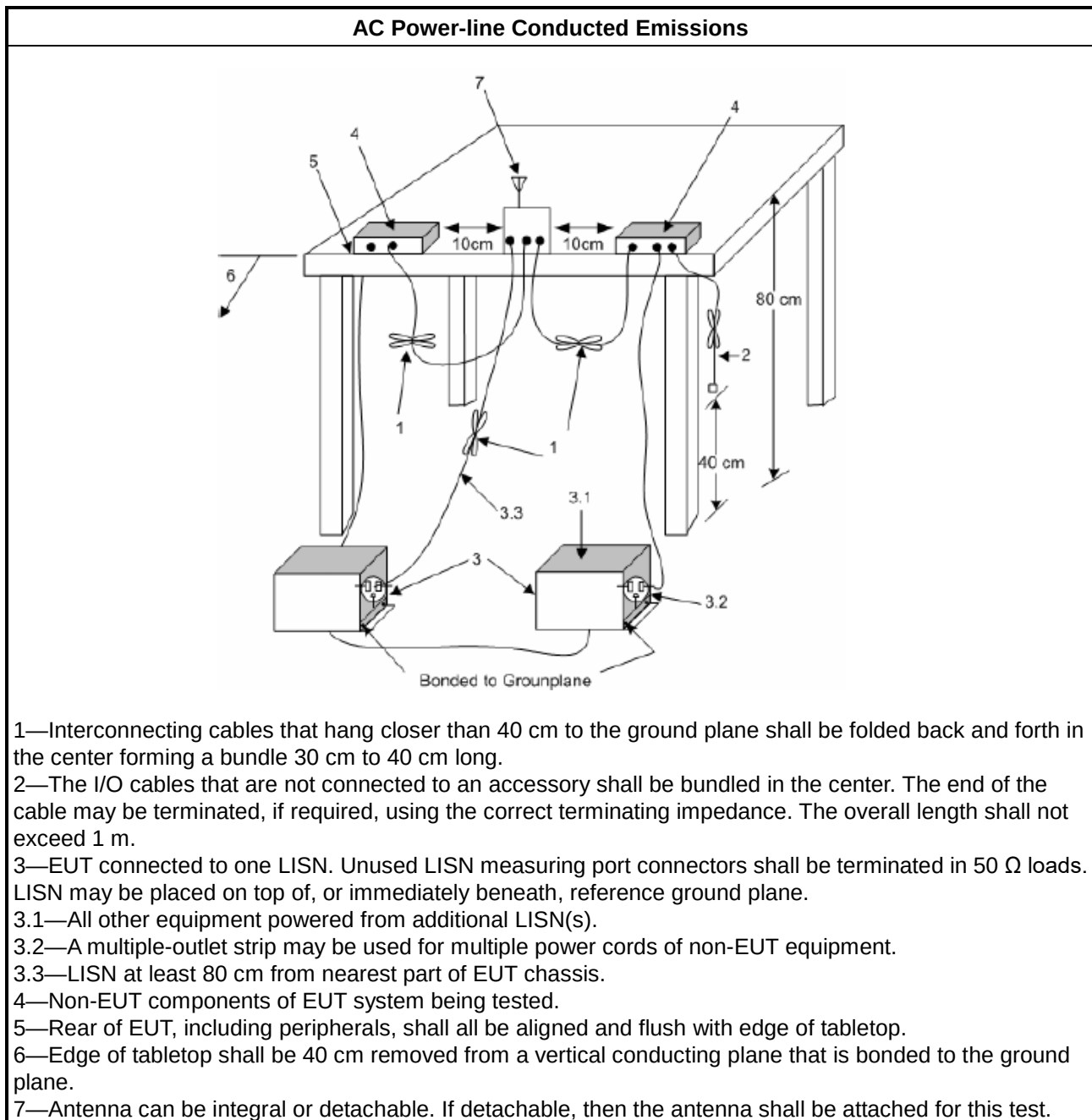
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq 500\text{kHz}$.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.

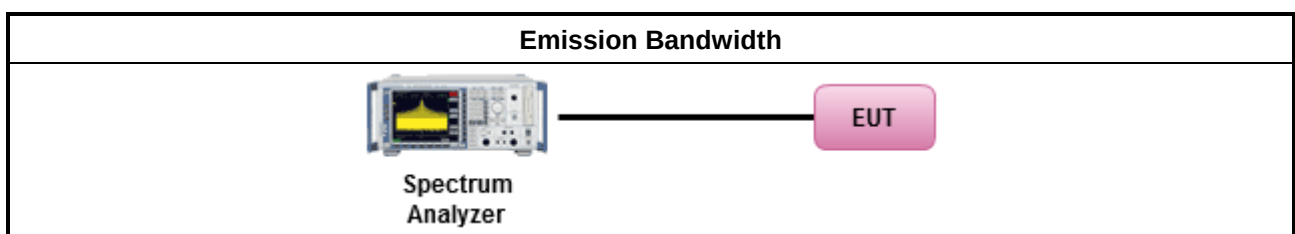
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
☐ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
☒	The maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- For other devices: The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. - Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.25-5.35 GHz band:	
☐	- For other devices: The maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz - Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

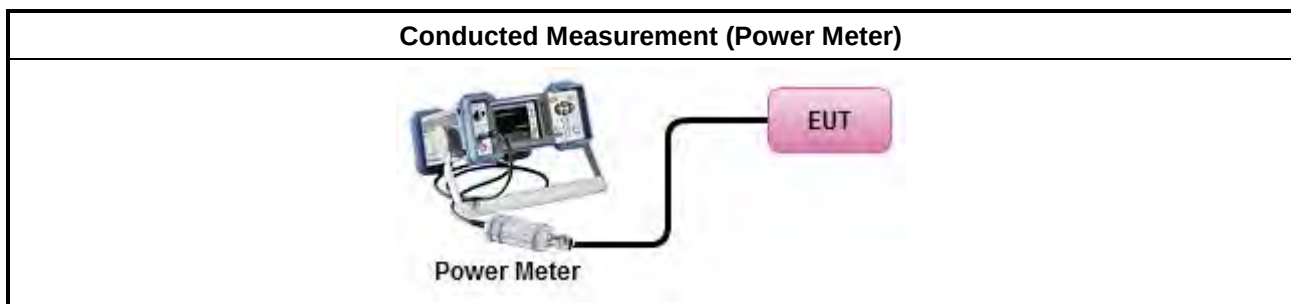
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	- If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. - If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band:
☐	Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒	For the 5.725-5.85 GHz band:
☐	The peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
☐	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
☐	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.4.2 Measuring Instruments

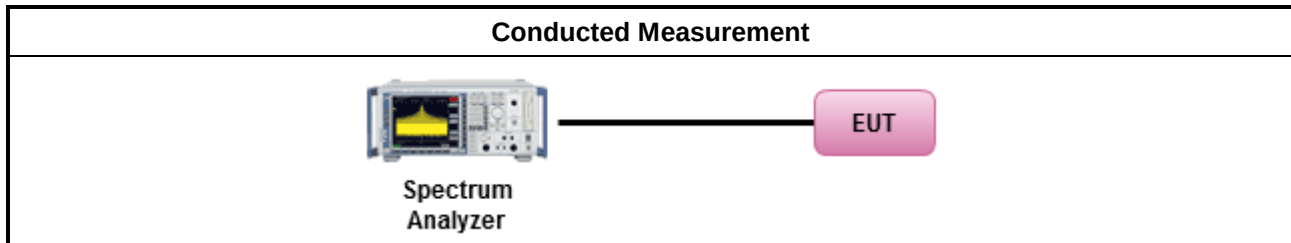
Refer a test equipment and calibration data table in this test report.

**3.4.3 Test Procedures**

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

☐	For radiated measurement.
☐	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.



Un-restricted band emissions above 1GHz Limit		
Operating Band		Limit
☐	5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐	5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐	5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒	5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.



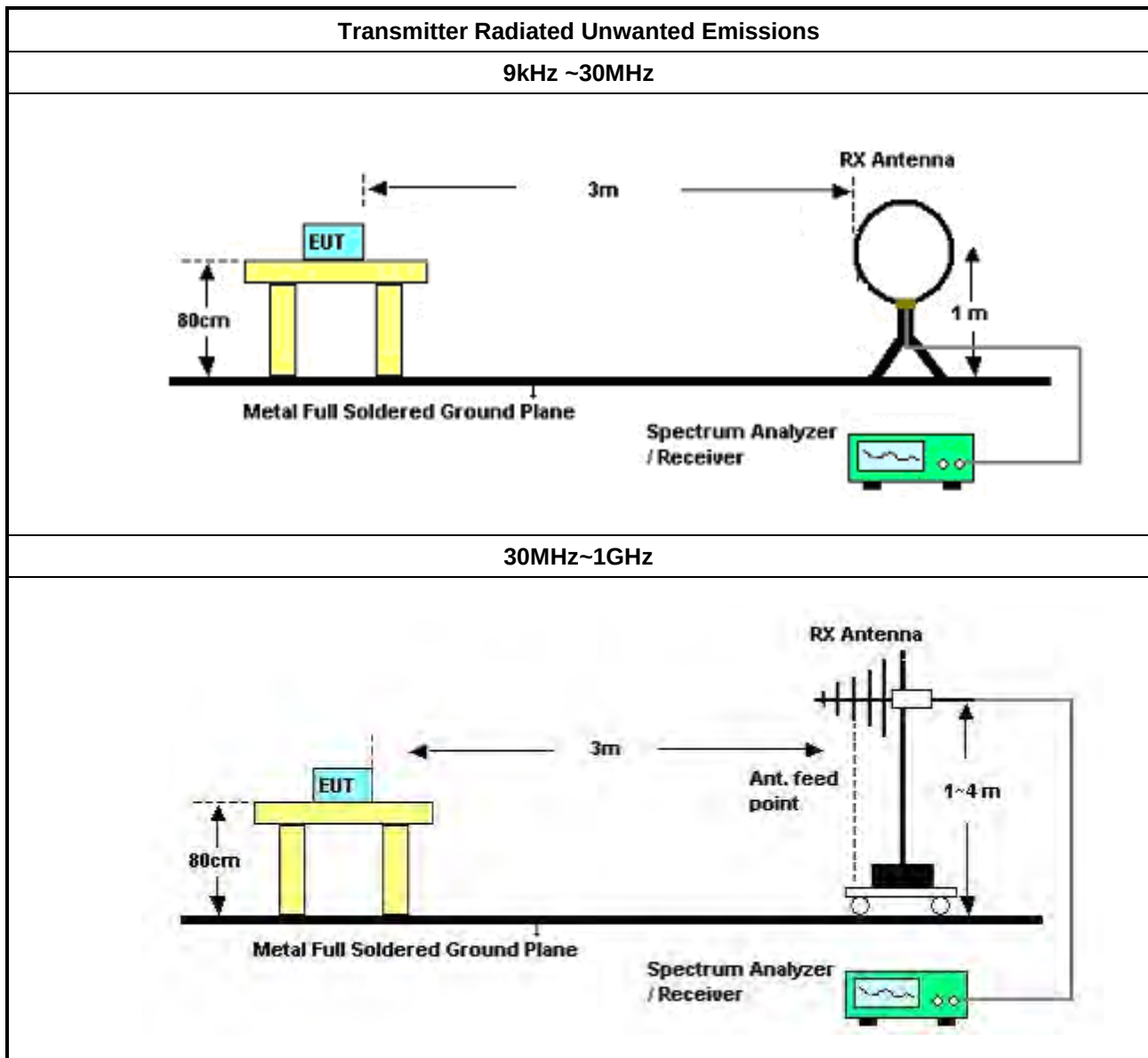
3.5.3 Test Procedures

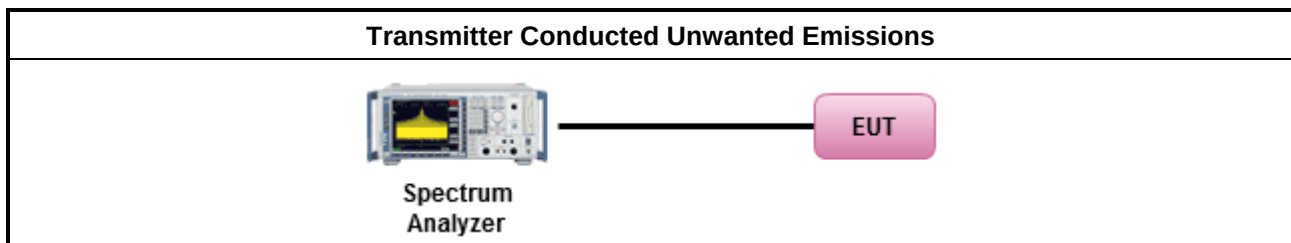
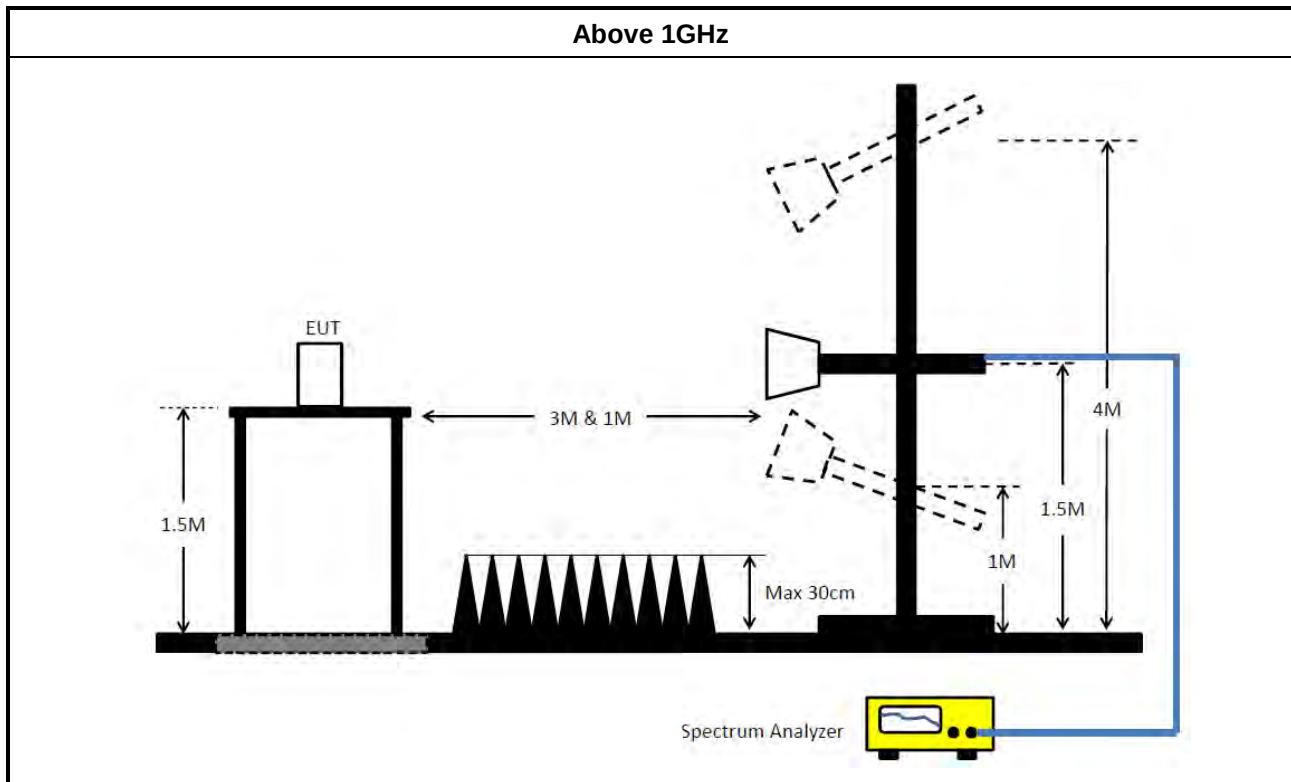
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	



Test Method	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033 D02, clause G)3).	
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Feb. 06, 2025	Feb. 05, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 01, 2024	Jul. 31, 2025	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCi	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



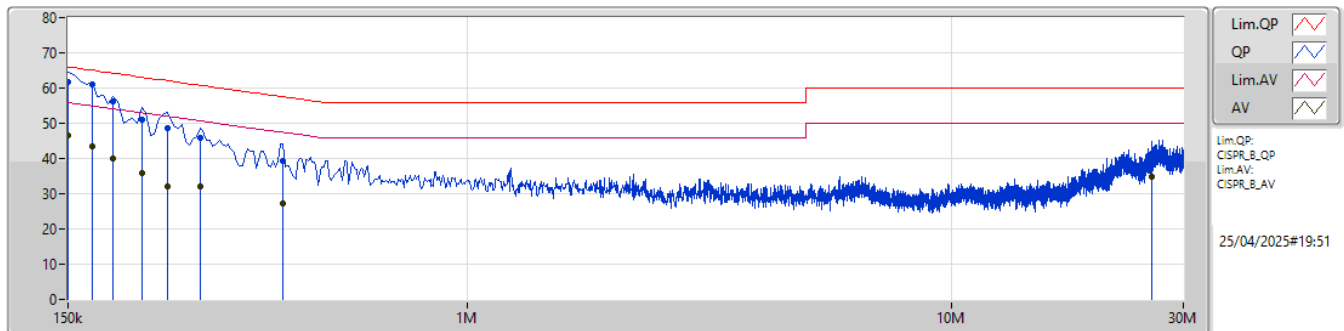
Conducted Emissions at Powerline
(Variant Device / FCC ID: UDX-600216020)

Appendix A

Summary

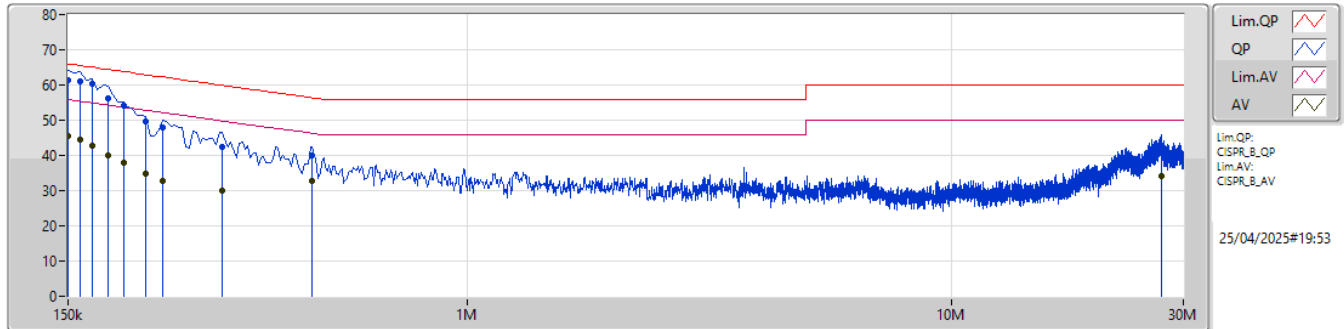
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	168k	60.94	65.06	-4.12	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	61.79	66.00	-4.21	10.03	Line	-	51.76	0.04	0.08	9.91						
AV	150k	46.59	56.00	-9.41	10.03	Line	-	36.56	0.04	0.08	9.91						
QP	168k	60.94	65.06	-4.12	10.05	Line	"Worst"	50.89	0.04	0.08	9.93						
AV	168k	43.32	55.06	-11.74	10.05	Line	-	33.27	0.04	0.08	9.93						
QP	186k	56.15	64.20	-8.05	10.05	Line	-	46.10	0.04	0.07	9.94						
AV	186k	40.15	54.20	-14.05	10.05	Line	-	30.10	0.04	0.07	9.94						
QP	213k	51.10	63.09	-11.99	10.07	Line	-	41.03	0.04	0.07	9.96						
AV	213k	35.81	53.09	-17.28	10.07	Line	-	25.74	0.04	0.07	9.96						
QP	240k	48.50	62.10	-13.60	10.10	Line	-	38.40	0.04	0.08	9.98						
AV	240k	32.22	52.10	-19.88	10.10	Line	-	22.12	0.04	0.08	9.98						
QP	280.5k	45.87	60.80	-14.93	10.12	Line	-	35.75	0.04	0.08	10.00						
AV	280.5k	31.95	50.80	-18.85	10.12	Line	-	21.83	0.04	0.08	10.00						
QP	415.5k	39.16	57.53	-18.37	10.20	Line	-	28.96	0.04	0.10	10.06						
AV	415.5k	27.26	47.53	-20.27	10.20	Line	-	17.06	0.04	0.10	10.06						
QP	25.89M	40.76	60.00	-19.24	10.65	Line	-	30.11	0.38	0.31	9.96						
AV	25.89M	34.69	50.00	-15.31	10.65	Line	-	24.04	0.38	0.31	9.96						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	61.31	66.00	-4.69	10.03	Neutral	-	51.28	0.04	0.08	9.91						
AV	150k	45.61	56.00	-10.39	10.03	Neutral	-	35.58	0.04	0.08	9.91						
QP	159k	61.16	65.52	-4.36	10.04	Neutral	"Worst"	51.12	0.04	0.08	9.92						
AV	159k	44.63	55.52	-10.89	10.04	Neutral	-	34.59	0.04	0.08	9.92						
QP	168k	60.20	65.06	-4.86	10.05	Neutral	-	50.15	0.04	0.08	9.93						
AV	168k	42.88	55.06	-12.18	10.05	Neutral	-	32.83	0.04	0.08	9.93						
QP	181.5k	56.19	64.41	-8.22	10.05	Neutral	-	46.14	0.04	0.07	9.94						
AV	181.5k	39.84	54.41	-14.57	10.05	Neutral	-	29.79	0.04	0.07	9.94						
QP	195k	54.06	63.82	-9.76	10.06	Neutral	-	44.00	0.04	0.07	9.95						
AV	195k	37.90	53.82	-15.92	10.06	Neutral	-	27.84	0.04	0.07	9.95						
QP	217.5k	49.64	62.92	-13.28	10.07	Neutral	-	39.57	0.04	0.07	9.96						
AV	217.5k	34.97	52.92	-17.95	10.07	Neutral	-	24.90	0.04	0.07	9.96						
QP	235.5k	48.10	62.25	-14.15	10.10	Neutral	-	38.00	0.04	0.08	9.98						
AV	235.5k	32.75	52.25	-19.50	10.10	Neutral	-	22.65	0.04	0.08	9.98						
QP	312k	42.56	59.92	-17.36	10.15	Neutral	-	32.41	0.04	0.09	10.02						
AV	312k	29.90	49.92	-20.02	10.15	Neutral	-	19.75	0.04	0.09	10.02						
QP	478.5k	39.91	56.36	-16.45	10.22	Neutral	-	29.69	0.04	0.10	10.08						
AV	478.5k	32.88	46.36	-13.48	10.22	Neutral	-	22.66	0.04	0.10	10.08						
QP	26.966M	40.87	60.00	-19.13	10.72	Neutral	-	30.15	0.44	0.32	9.96						
AV	26.966M	34.09	50.00	-15.91	10.72	Neutral	-	23.37	0.44	0.32	9.96						



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.39M	22.161M	22M2D1D	16.335M	19.551M
802.11ax HEW20_Nss1,(MCS0)_1TX	19.03M	20.746M	20M7D1D	17.27M	19.391M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.73M	40.193M	40M2D1D	37.51M	38.378M
802.11ax HEW80_Nss1,(MCS0)_1TX	77.88M	77.176M	77M2D1D	77.88M	77.176M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5745MHz	Pass	500k	16.335M	19.551M
5785MHz	Pass	500k	16.335M	22.161M
5825MHz	Pass	500k	16.39M	20.24M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5745MHz	Pass	500k	17.27M	19.391M
5785MHz	Pass	500k	19.03M	20.746M
5825MHz	Pass	500k	18.205M	19.778M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5755MHz	Pass	500k	37.51M	38.378M
5795MHz	Pass	500k	37.73M	40.193M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5775MHz	Pass	500k	77.88M	77.176M

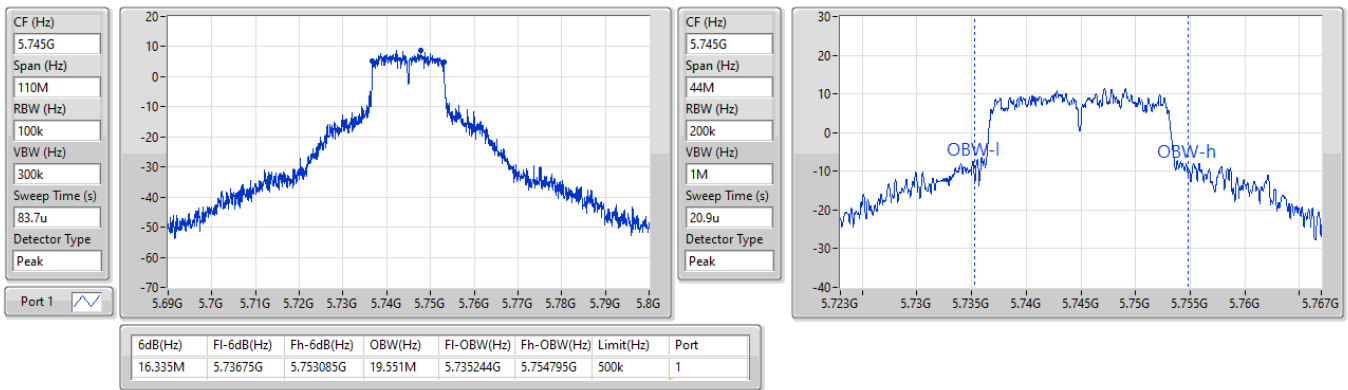
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

21/12/2024

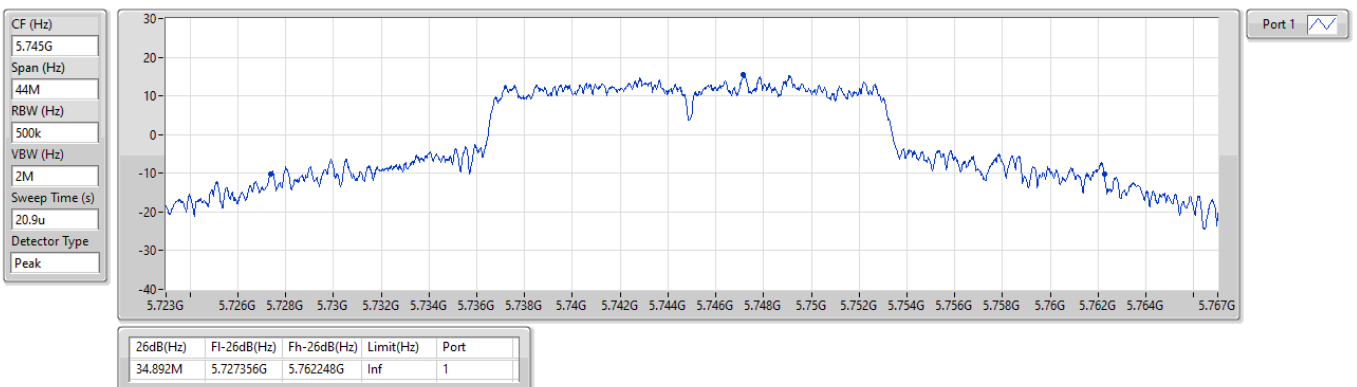


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

21/12/2024

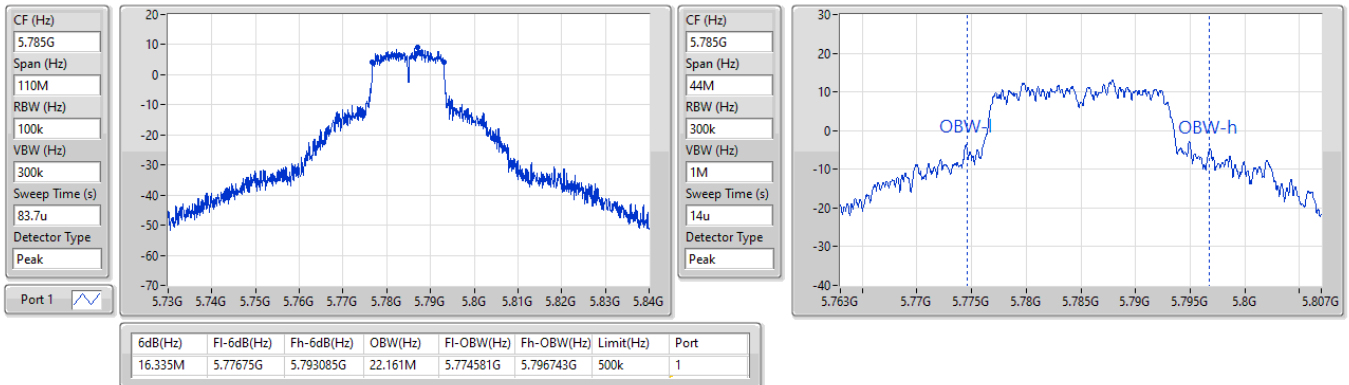


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

21/12/2024

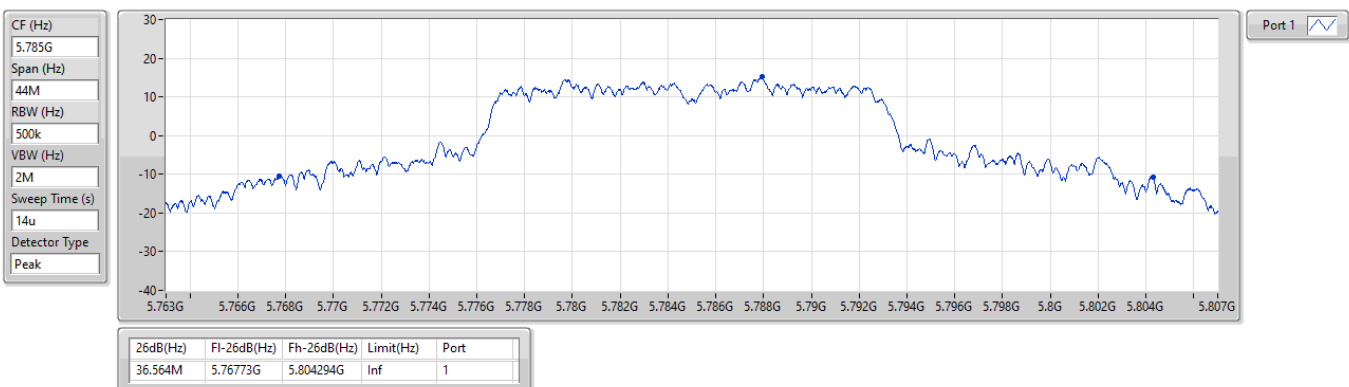


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

21/12/2024

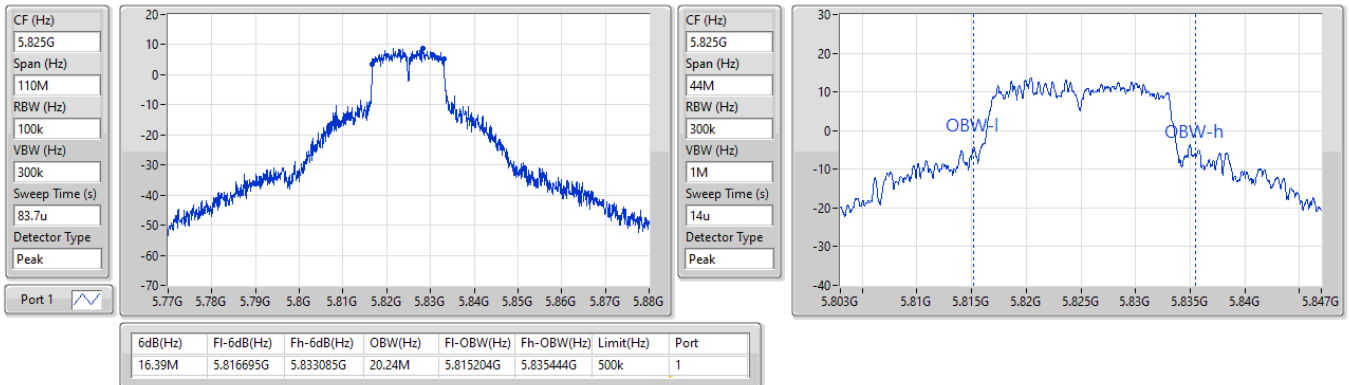


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

21/12/2024

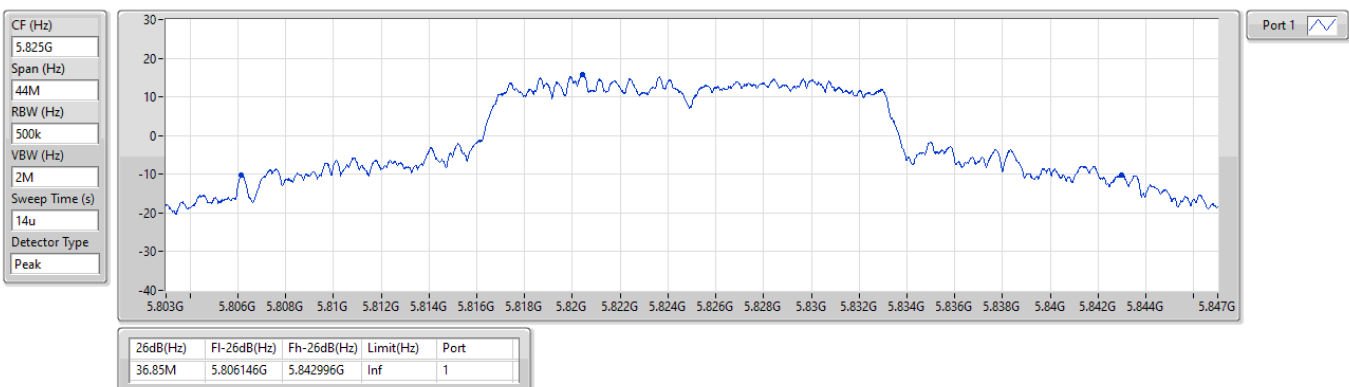


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

21/12/2024

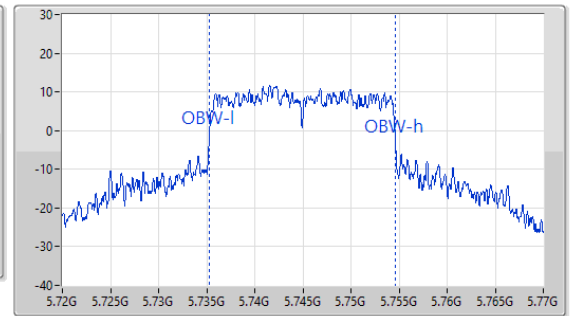
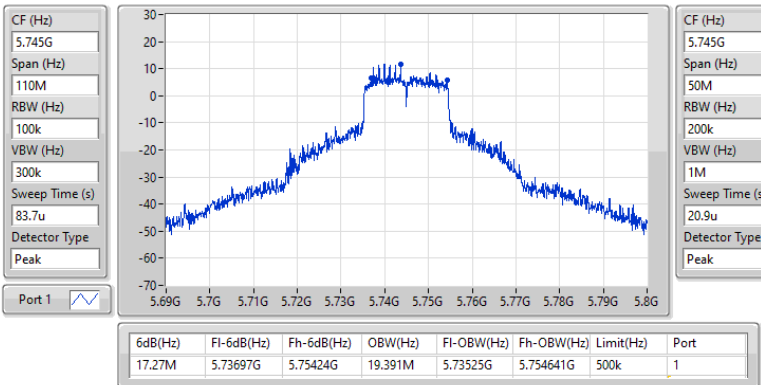


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

21/12/2024

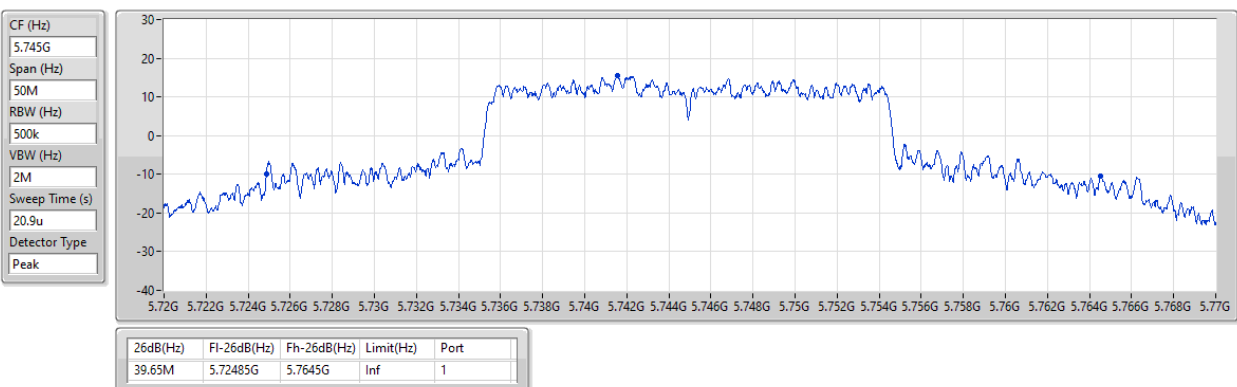


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

21/12/2024

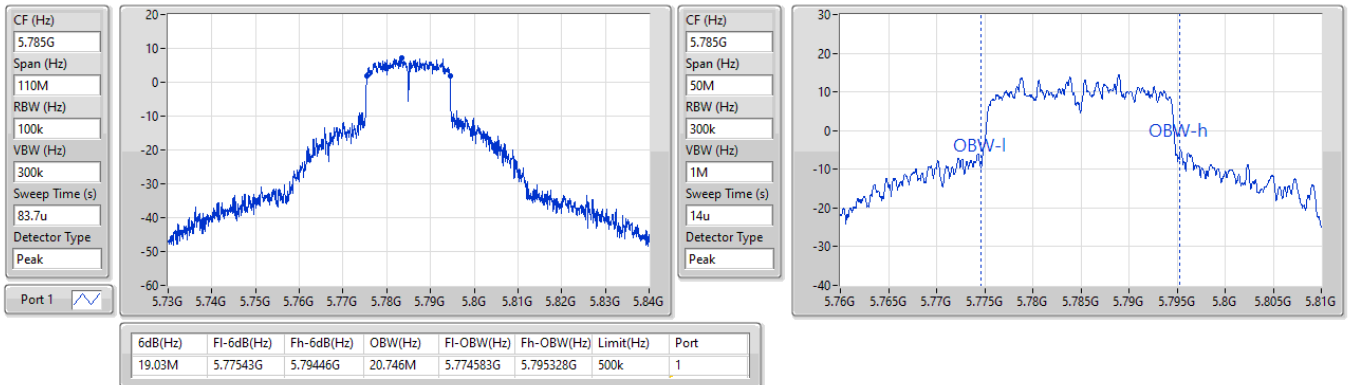


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

21/12/2024

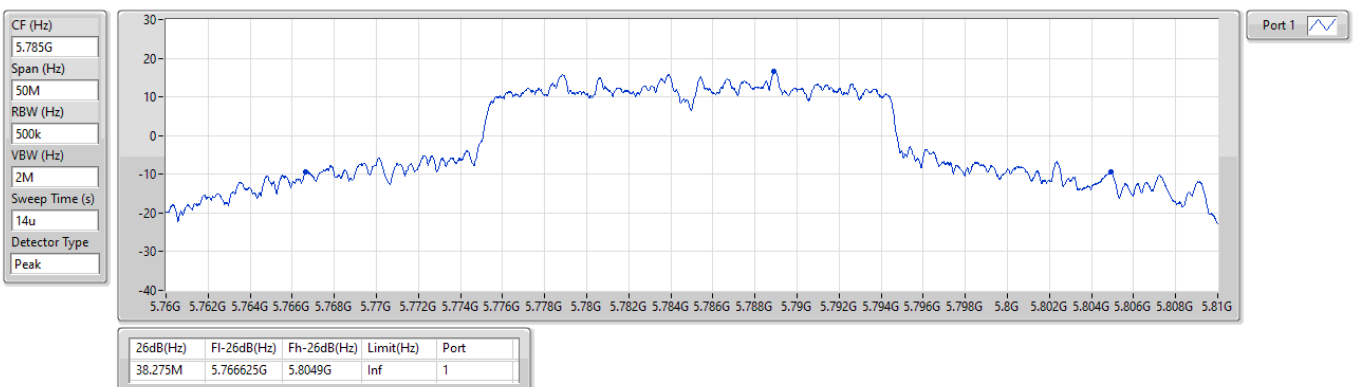


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

21/12/2024

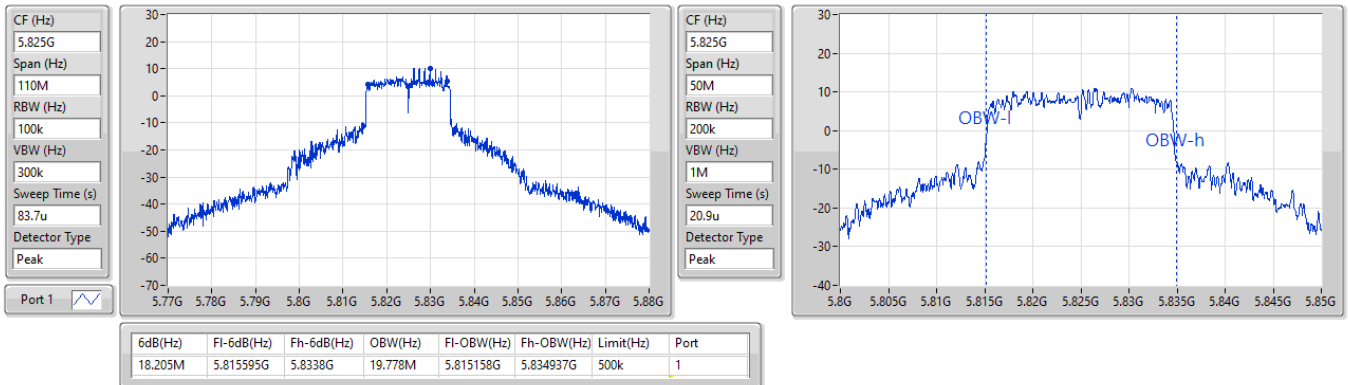


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

21/12/2024

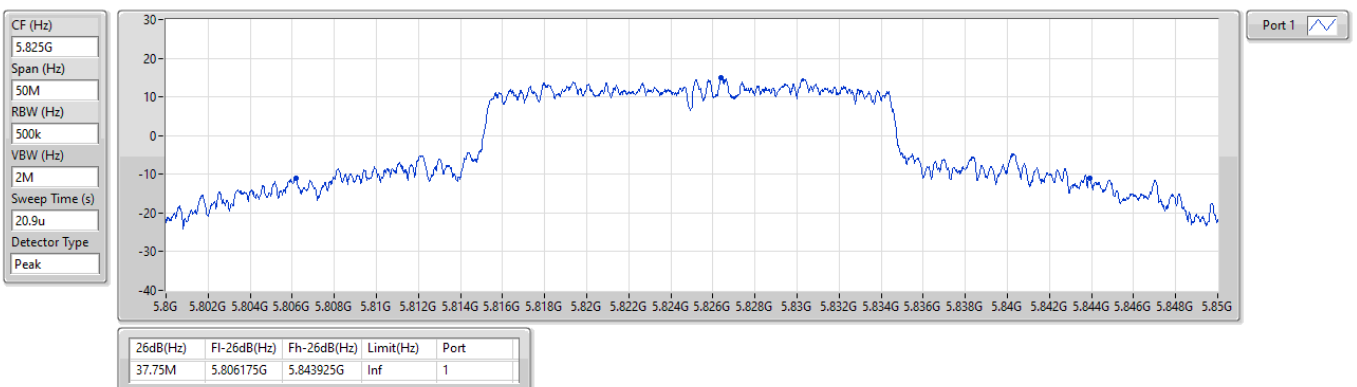


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

21/12/2024

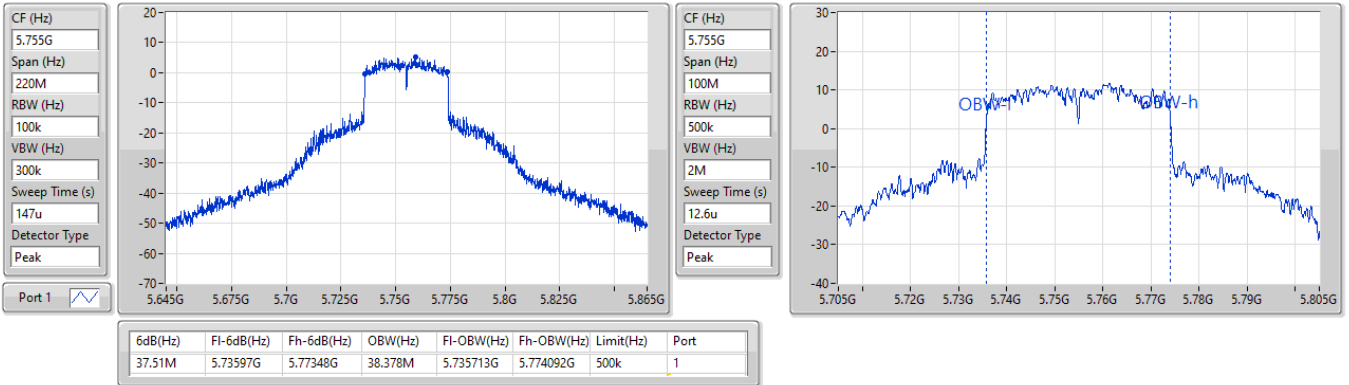


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

21/12/2024

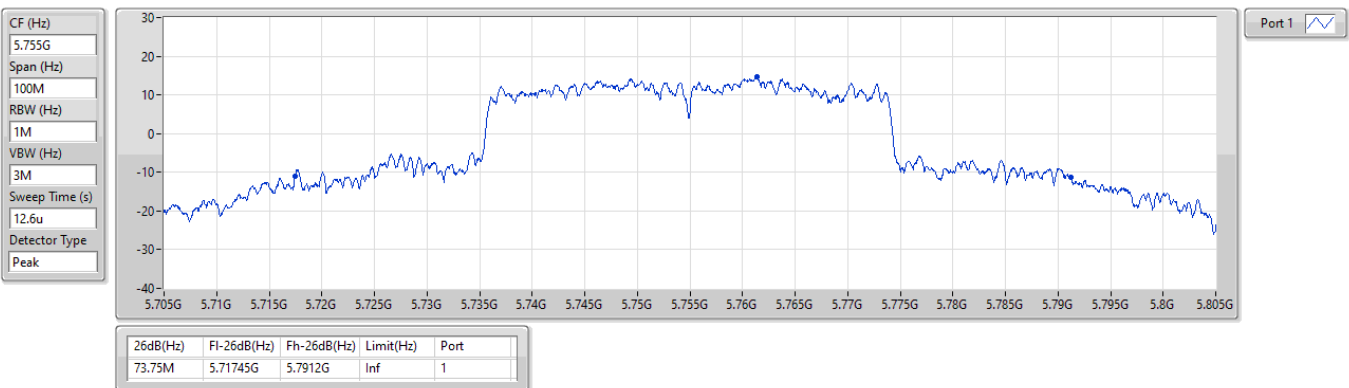


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

21/12/2024

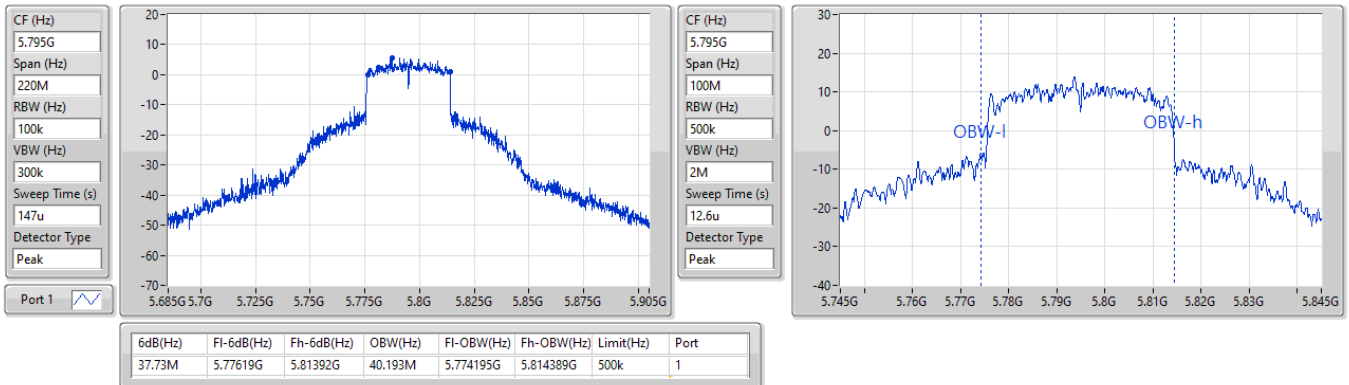


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

21/12/2024

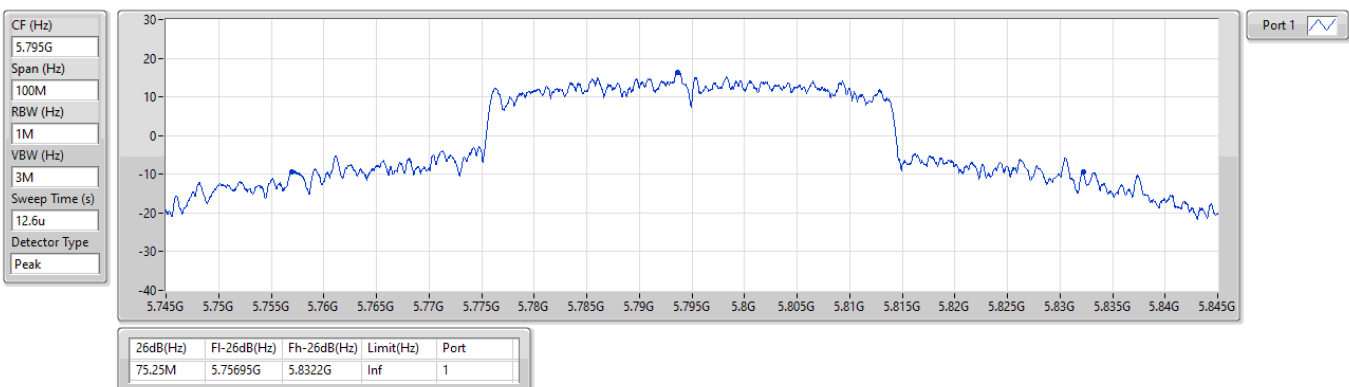


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

21/12/2024

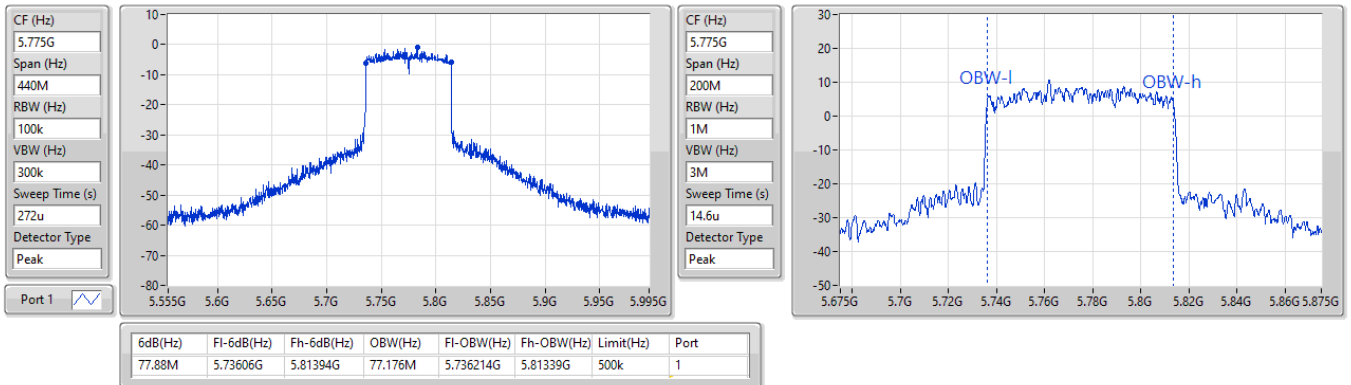


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

21/12/2024

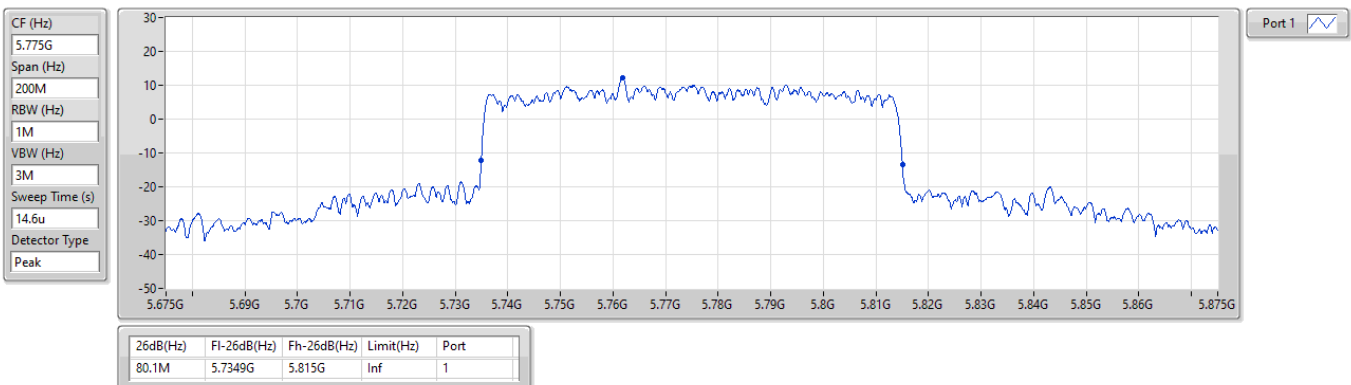


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

21/12/2024





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.5M	16.888M	16M9D1D	16.39M	16.685M
802.11a_Nss1,(6Mbps)_2TX	16.5M	16.947M	16M9D1D	16.28M	16.692M
802.11a_Nss1,(6Mbps)_4TX	16.555M	16.829M	16M8D1D	16.335M	16.568M
802.11be EHT20_Nss1,(MCS0)_1TX	19.085M	19.198M	19M2D1D	19.03M	19.03M
802.11be EHT20_Nss1,(MCS0)_2TX	19.14M	19.201M	19M2D1D	19.085M	19.019M
802.11be EHT20_Nss1,(MCS0)_4TX	19.195M	19.199M	19M2D1D	19.03M	18.998M
802.11be EHT40_Nss1,(MCS0)_1TX	38.17M	38.198M	38M2D1D	38.17M	38.079M
802.11be EHT40_Nss1,(MCS0)_2TX	38.17M	38.2M	38M2D1D	38.17M	37.949M
802.11be EHT40_Nss1,(MCS0)_4TX	38.17M	38.084M	38M1D1D	37.4M	37.805M
802.11be EHT80_Nss1,(MCS0)_1TX	78.1M	77.816M	77M8D1D	78.1M	77.816M
802.11be EHT80_Nss1,(MCS0)_2TX	78.1M	77.44M	77M4D1D	78.1M	77.378M
802.11be EHT80_Nss1,(MCS0)_4TX	78.32M	77.755M	77M8D1D	78.1M	77.576M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.5M	16.864M						
5785MHz	Pass	500k	16.39M	16.685M						
5825MHz	Pass	500k	16.445M	16.888M						
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	19.085M	19.119M						
5785MHz	Pass	500k	19.03M	19.03M						
5825MHz	Pass	500k	19.03M	19.198M						
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	38.17M	38.079M						
5795MHz	Pass	500k	38.17M	38.198M						
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	78.1M	77.816M						
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.28M	16.79M	16.5M	16.844M				
5785MHz	Pass	500k	16.5M	16.692M	16.335M	16.947M				
5825MHz	Pass	500k	16.5M	16.749M	16.5M	16.824M				
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	19.14M	19.019M	19.085M	19.053M				
5785MHz	Pass	500k	19.085M	19.035M	19.14M	19.16M				
5825MHz	Pass	500k	19.085M	19.201M	19.085M	19.164M				
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	38.17M	37.949M	38.17M	38.072M				
5795MHz	Pass	500k	38.17M	38.2M	38.17M	37.969M				
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	78.1M	77.378M	78.1M	77.44M				
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.555M	16.717M	16.335M	16.678M	16.39M	16.673M	16.335M	16.724M
5785MHz	Pass	500k	16.555M	16.829M	16.5M	16.588M	16.5M	16.67M	16.555M	16.681M
5825MHz	Pass	500k	16.335M	16.568M	16.39M	16.659M	16.5M	16.66M	16.5M	16.773M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	19.14M	19.036M	19.195M	19.055M	19.14M	19.15M	19.085M	18.998M
5785MHz	Pass	500k	19.14M	19M	19.14M	19.023M	19.085M	19.199M	19.14M	19.093M
5825MHz	Pass	500k	19.03M	19.028M	19.14M	19.036M	19.085M	19.072M	19.085M	19.193M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	38.17M	37.889M	38.17M	37.805M	38.17M	37.844M	37.4M	37.963M
5795MHz	Pass	500k	38.17M	38.084M	37.84M	37.906M	38.06M	37.826M	38.17M	38.059M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	78.32M	77.676M	78.1M	77.755M	78.1M	77.66M	78.1M	77.576M

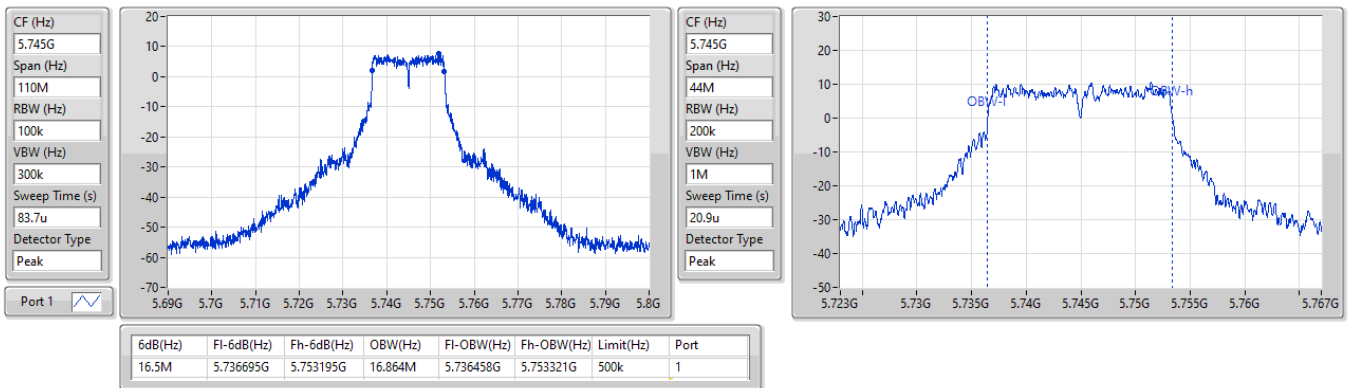
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

27/12/2024

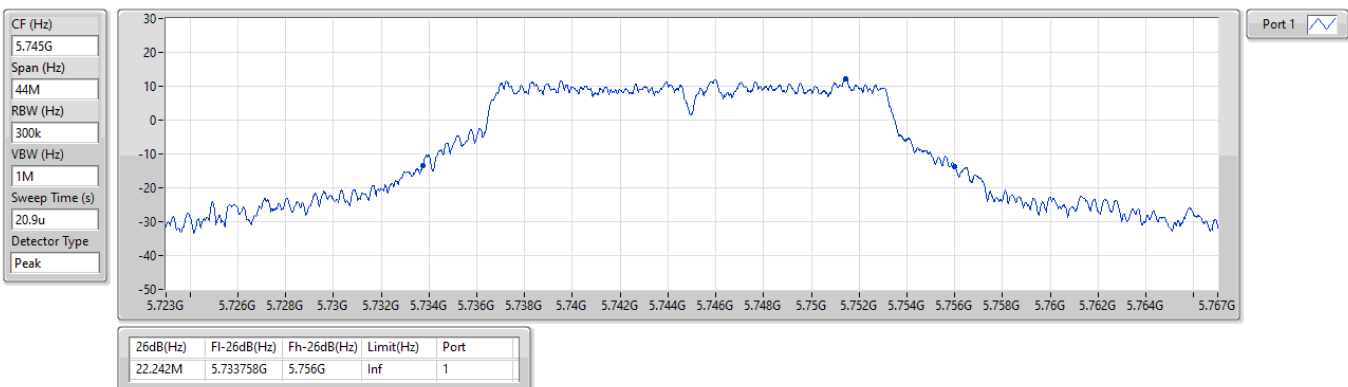


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

27/12/2024

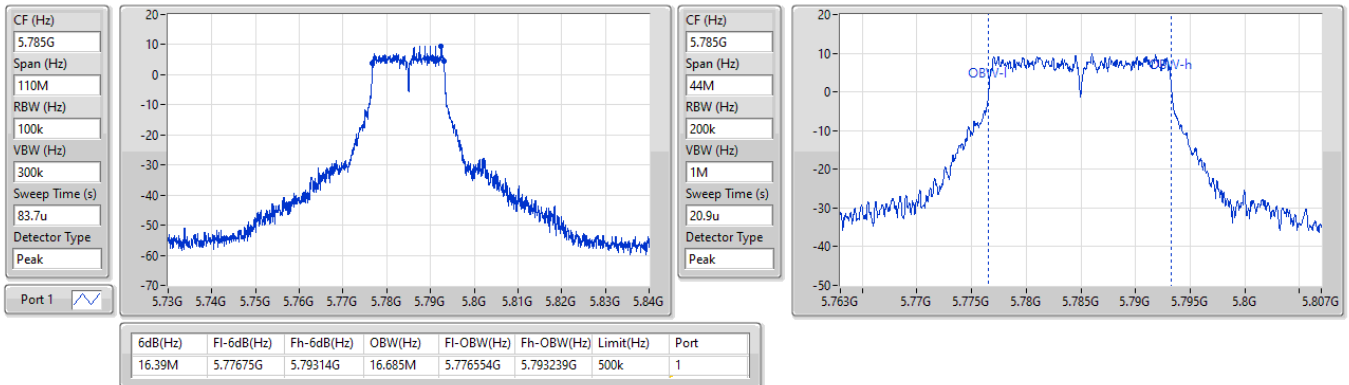


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

27/12/2024

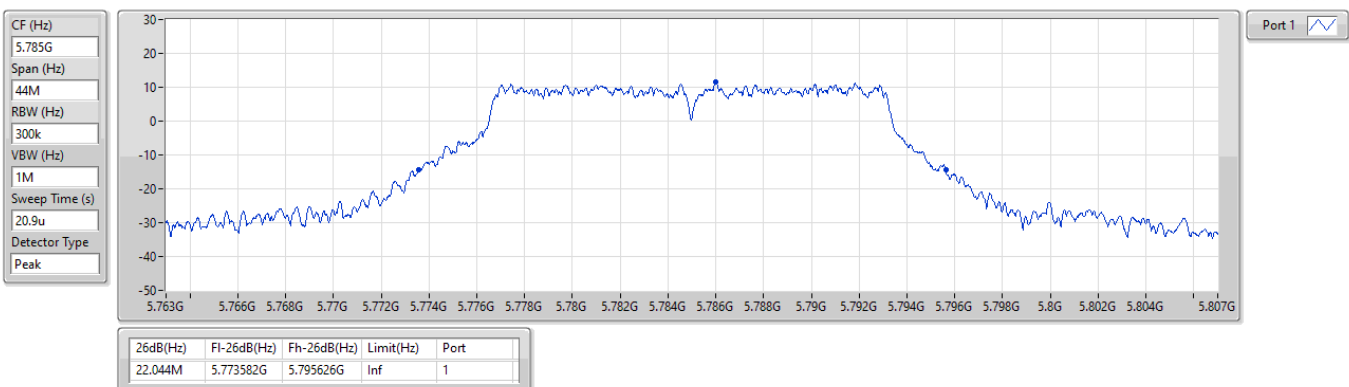


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

27/12/2024

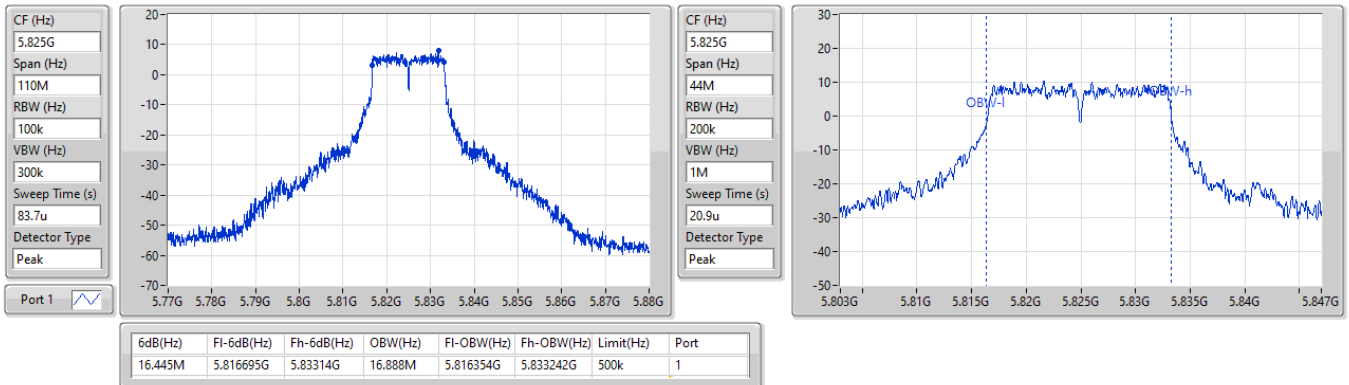


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

27/12/2024

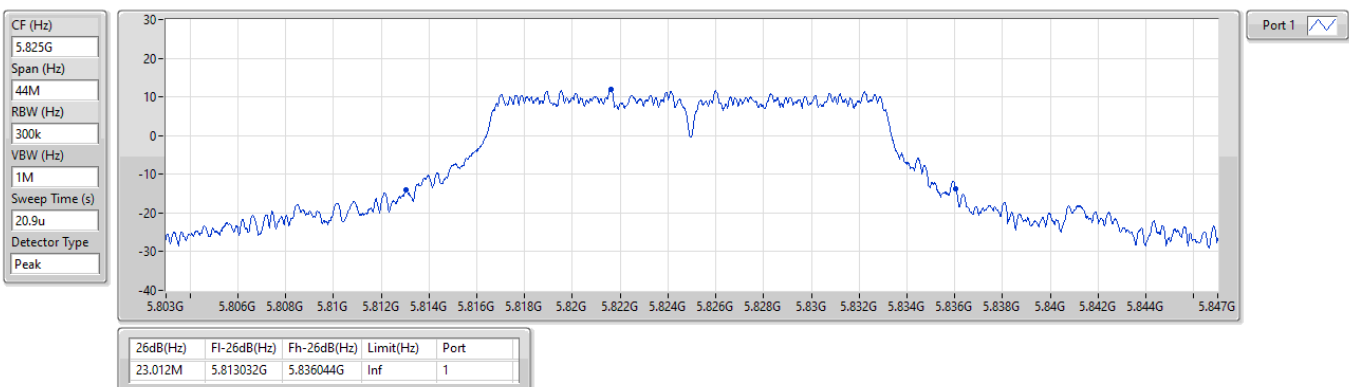


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

27/12/2024

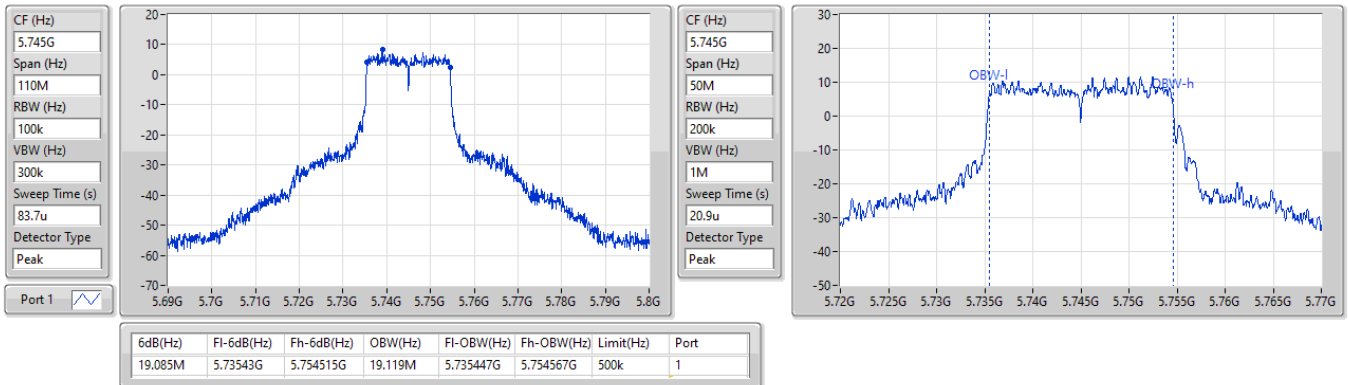


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5745MHz

27/12/2024

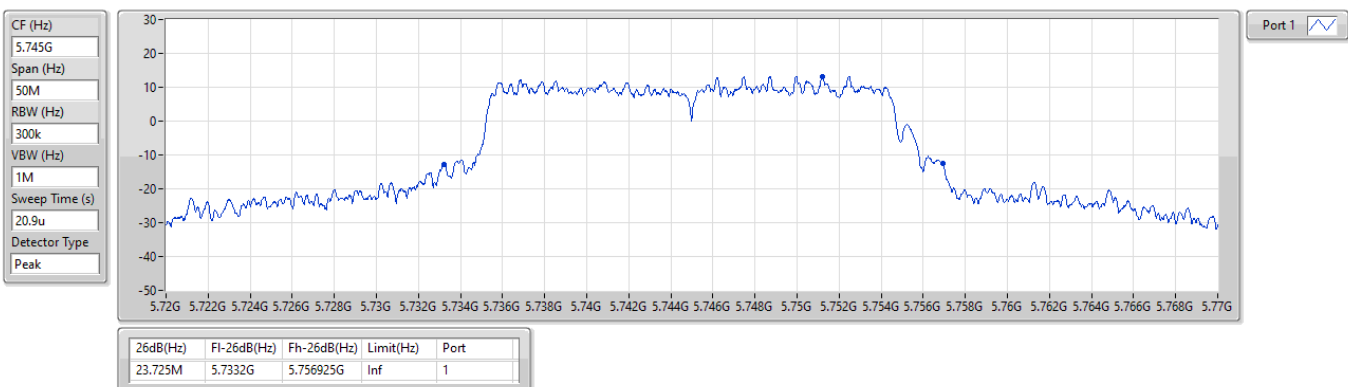


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5745MHz

27/12/2024

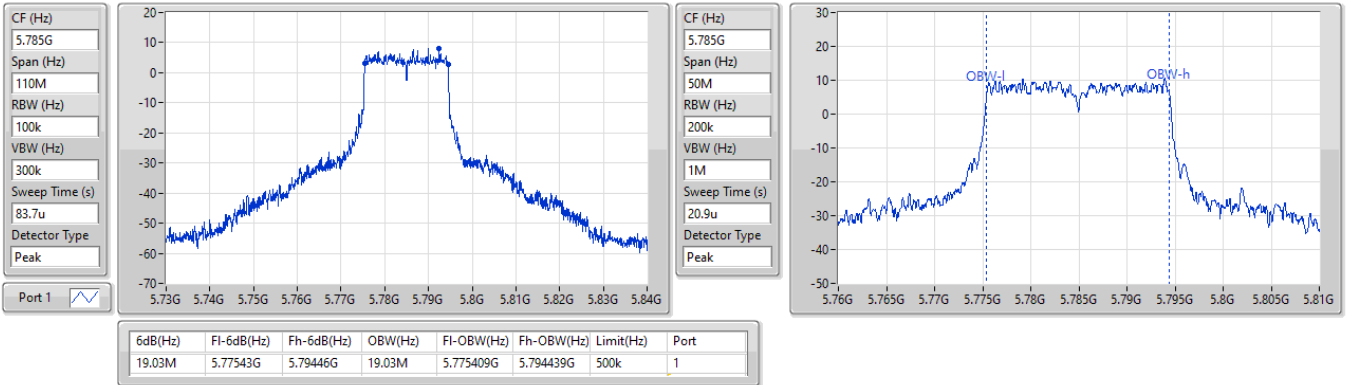


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5785MHz

27/12/2024

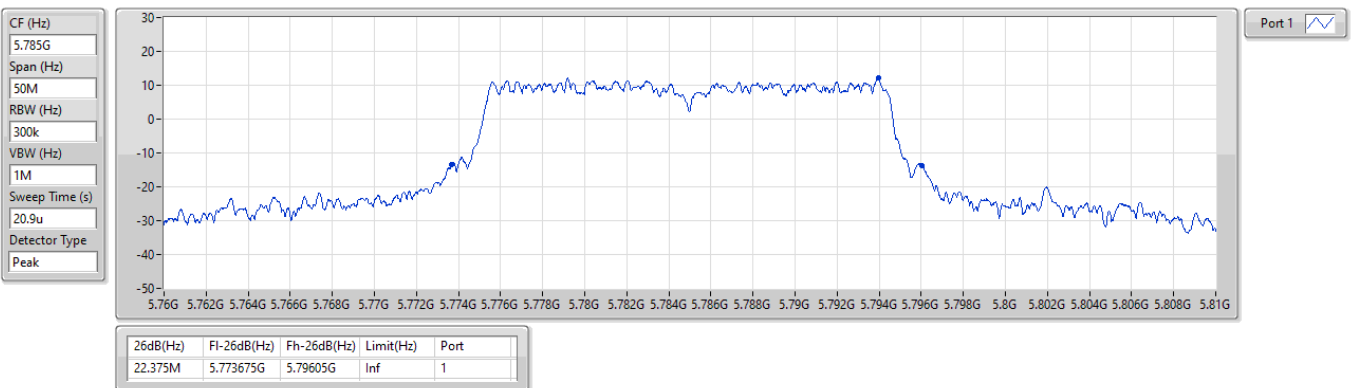


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5785MHz

27/12/2024

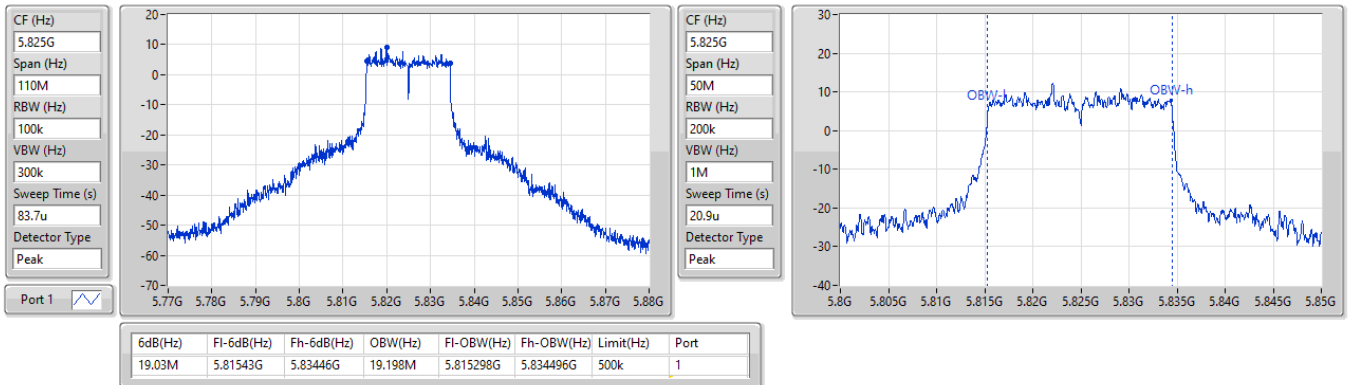


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5825MHz

27/12/2024

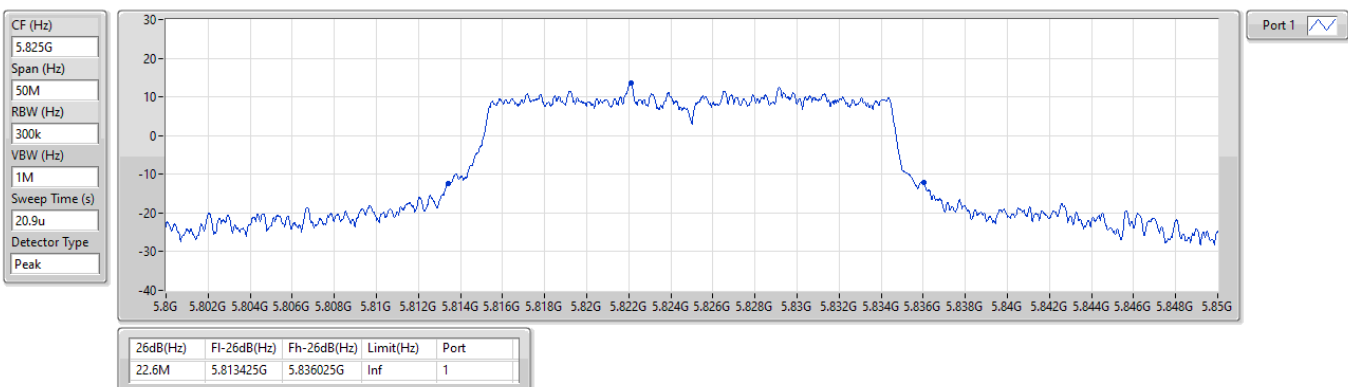


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5825MHz

27/12/2024

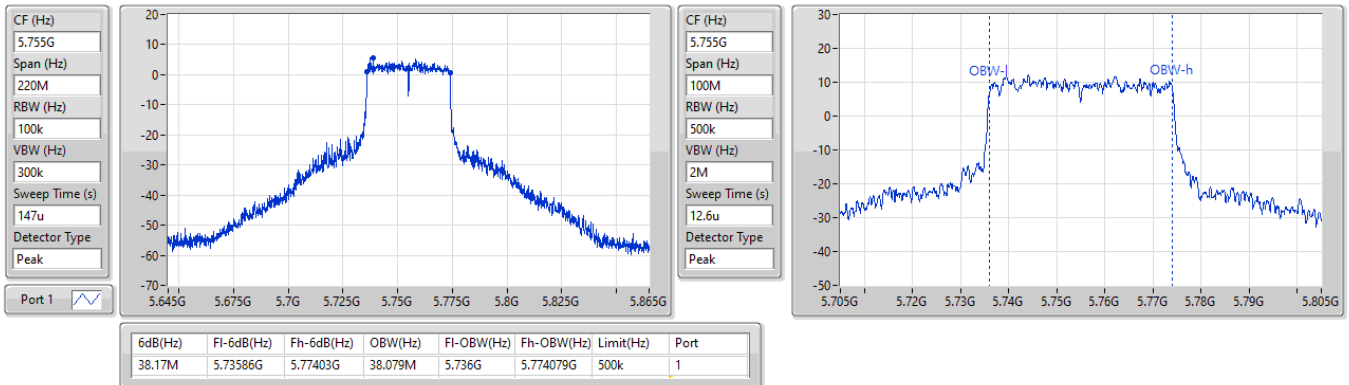


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5755MHz

27/12/2024

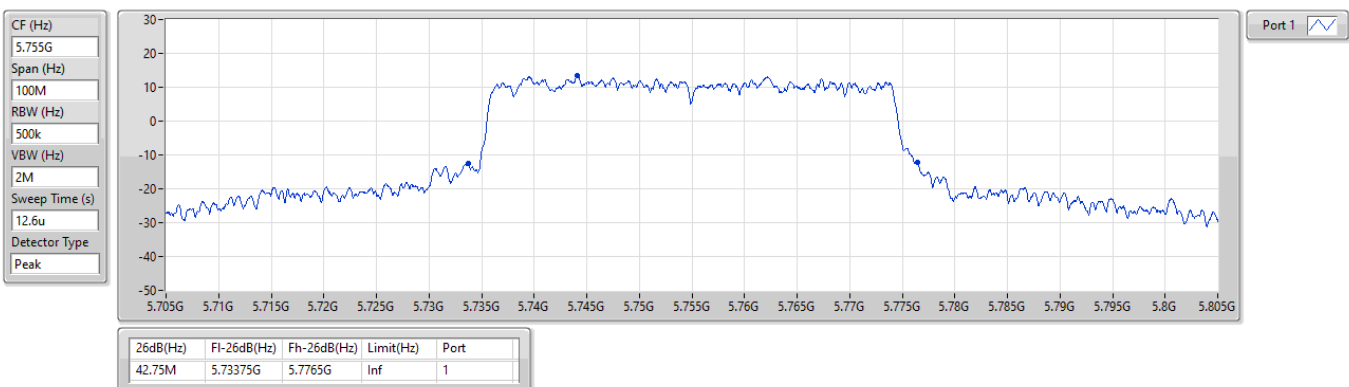


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5755MHz

27/12/2024

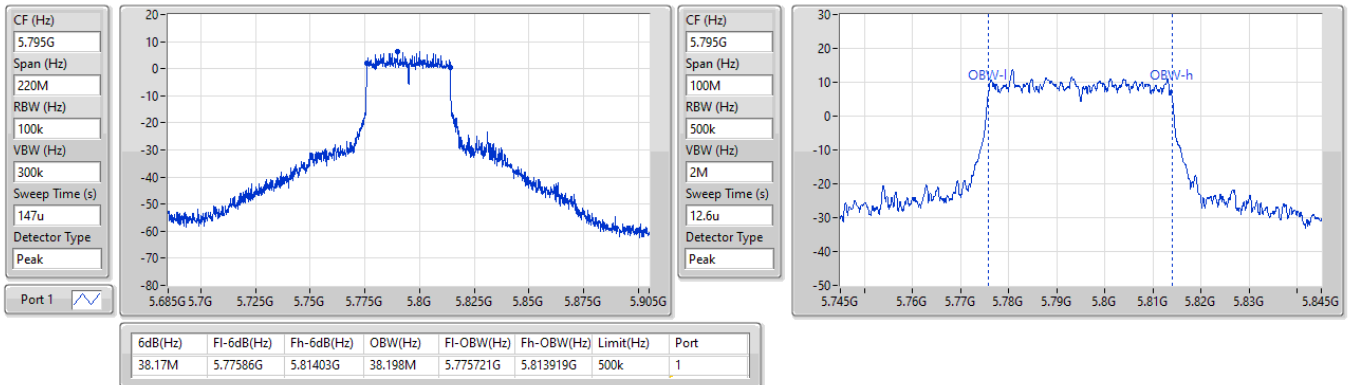


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5795MHz

27/12/2024

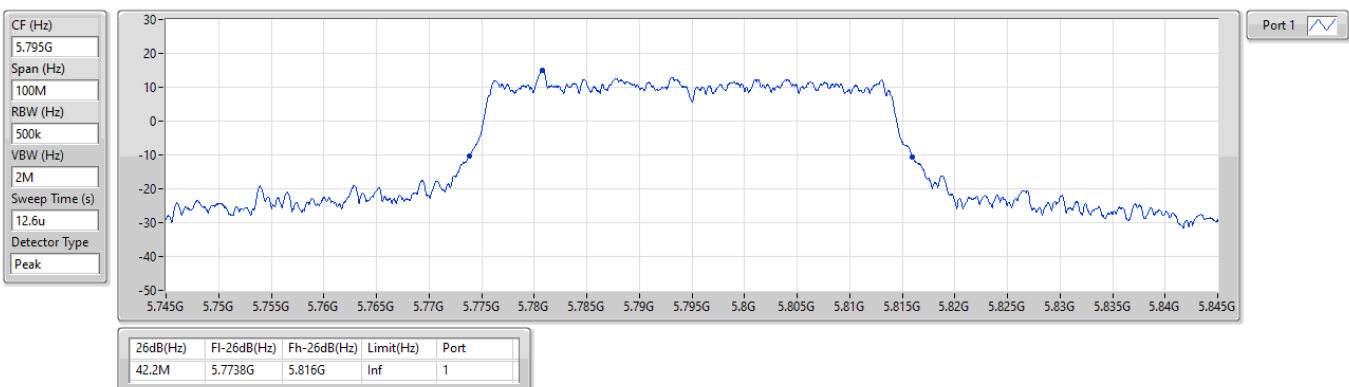


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5795MHz

27/12/2024

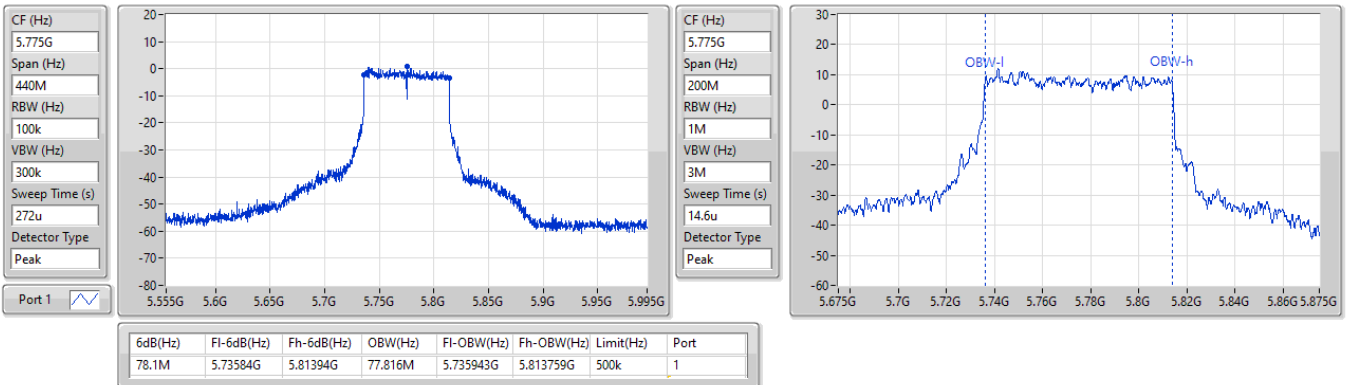


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

18/12/2024

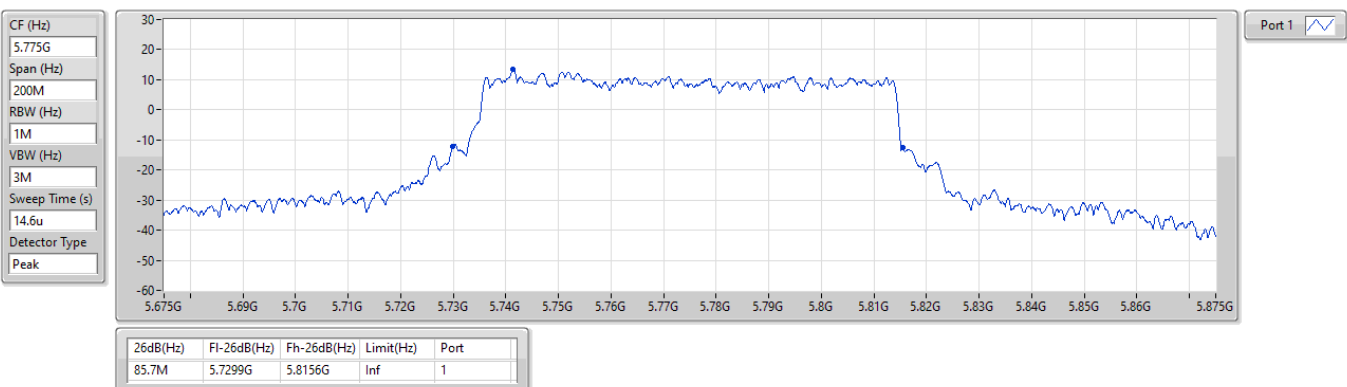


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

18/12/2024

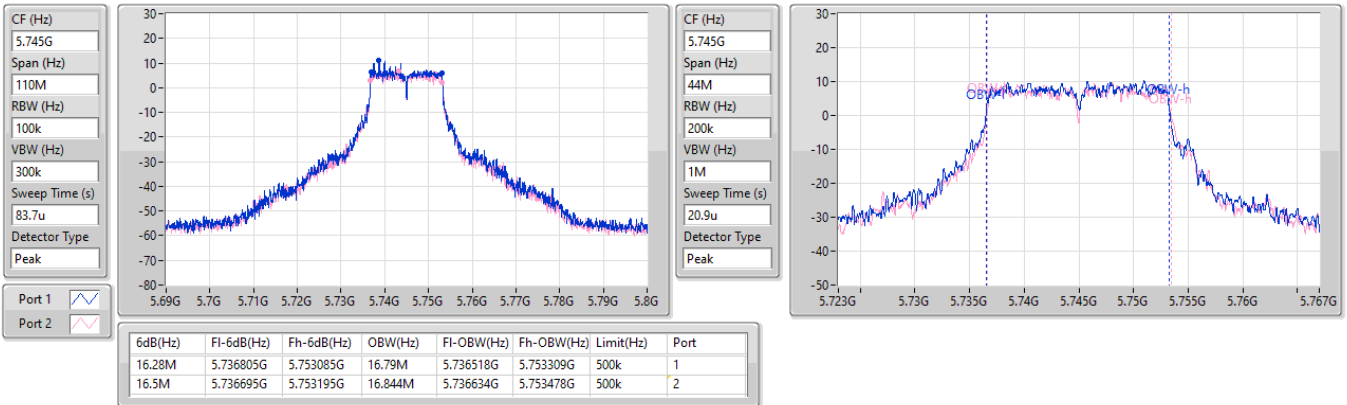


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

27/12/2024

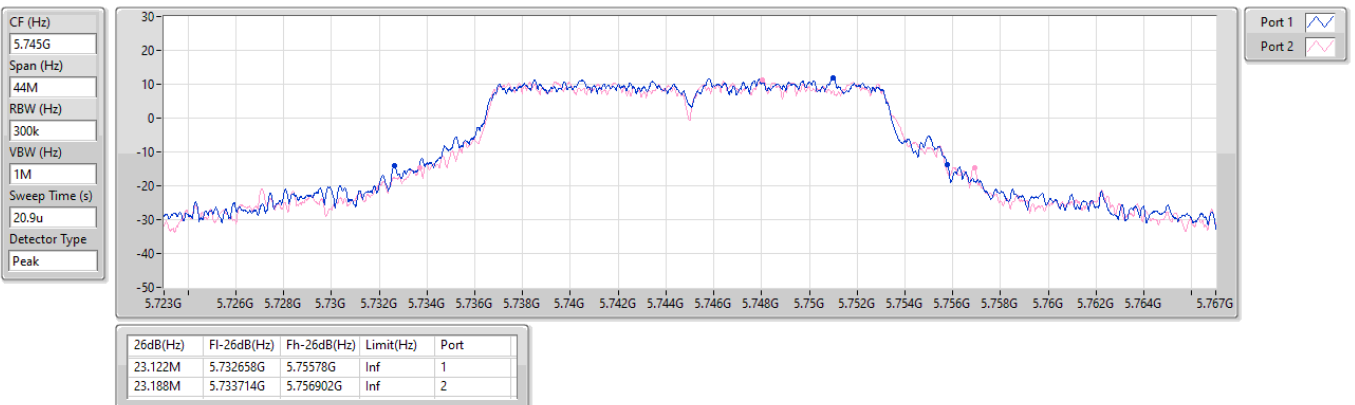


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

27/12/2024

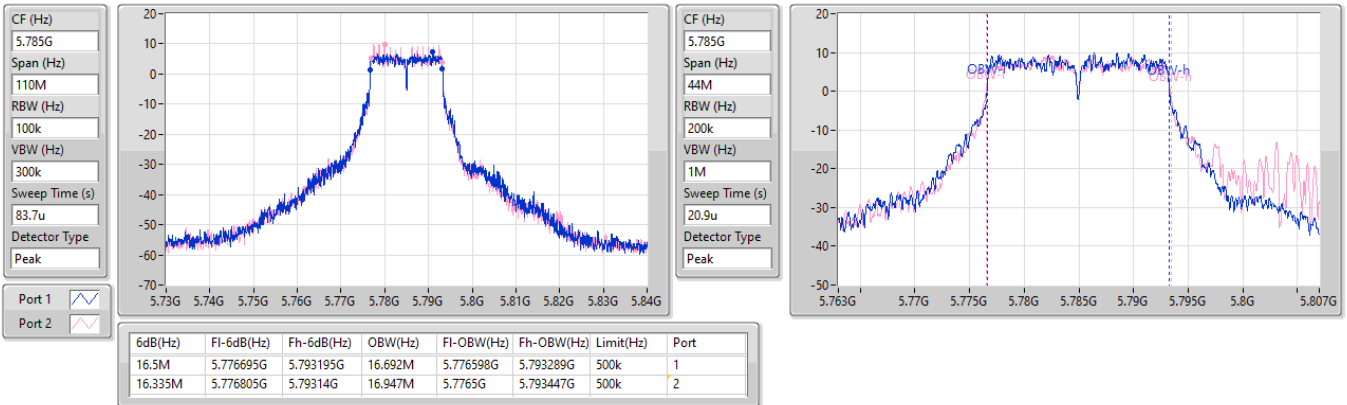


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

27/12/2024

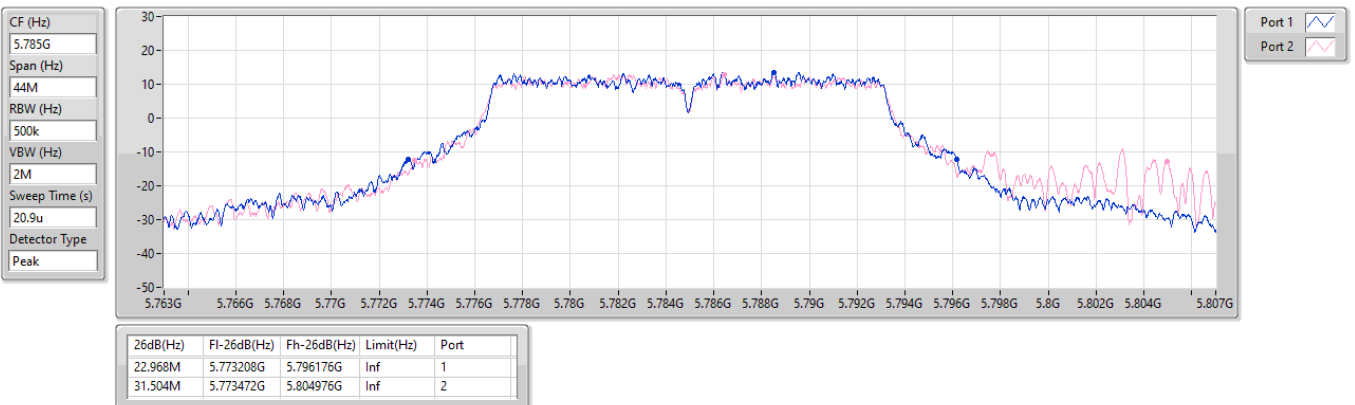


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

27/12/2024

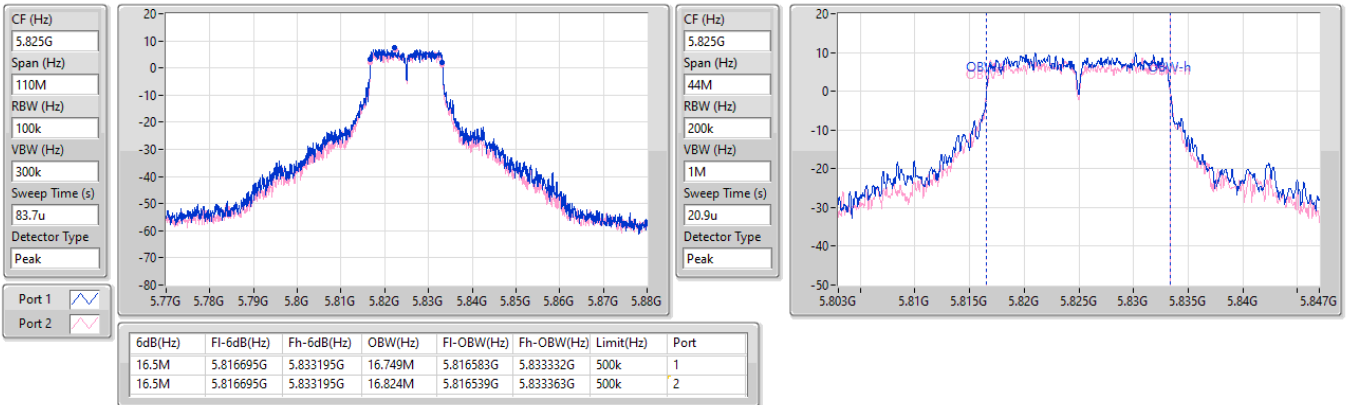


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

27/12/2024

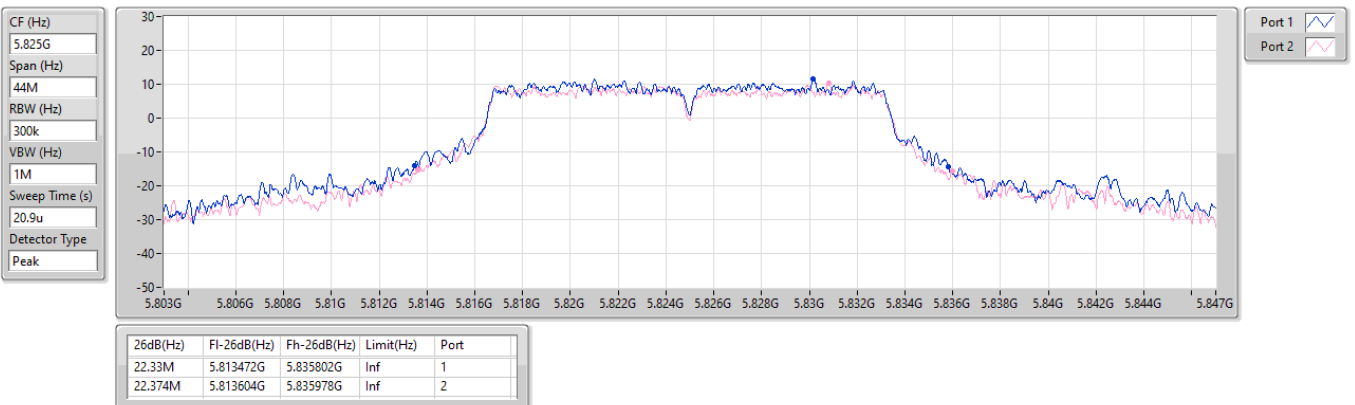


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

27/12/2024



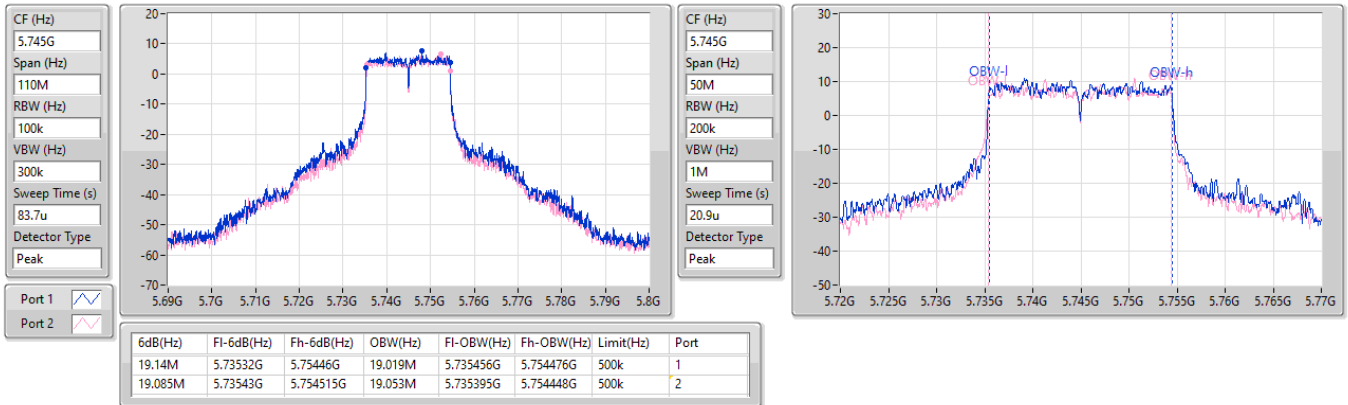


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

27/12/2024

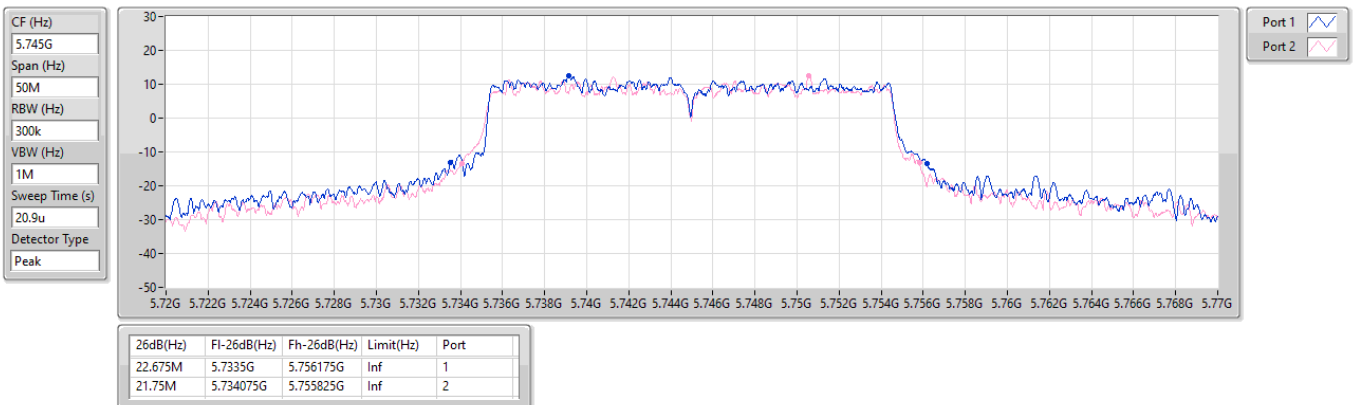


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

27/12/2024

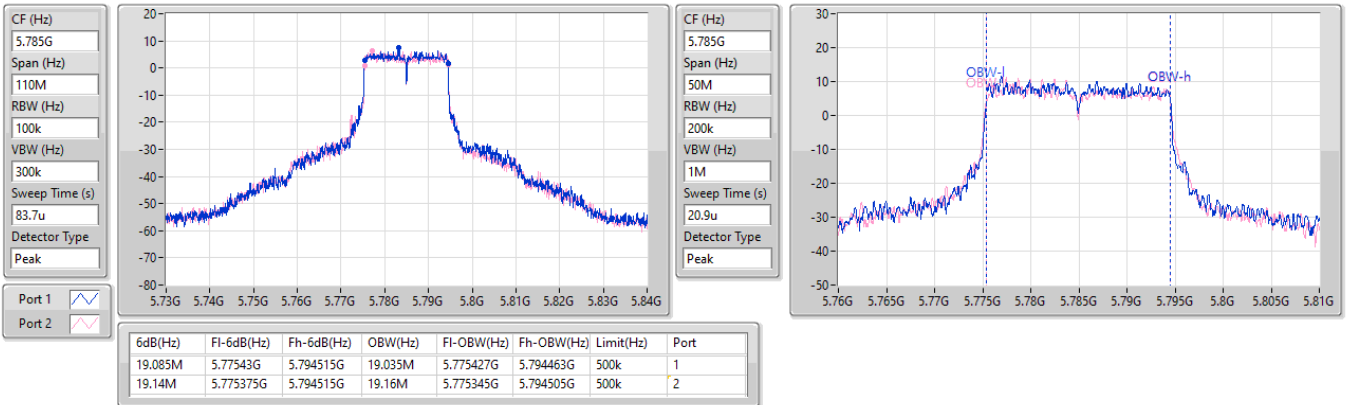


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

27/12/2024

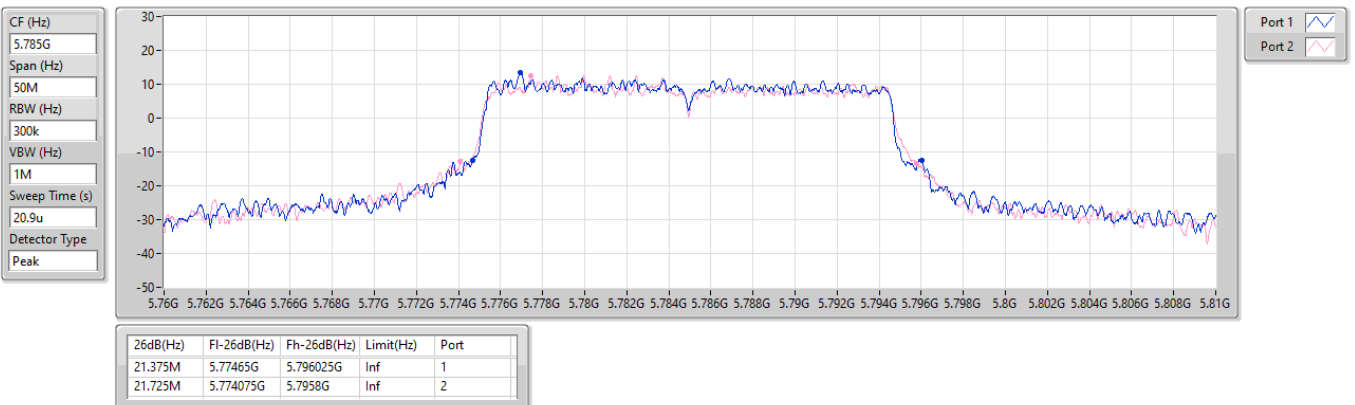


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

27/12/2024

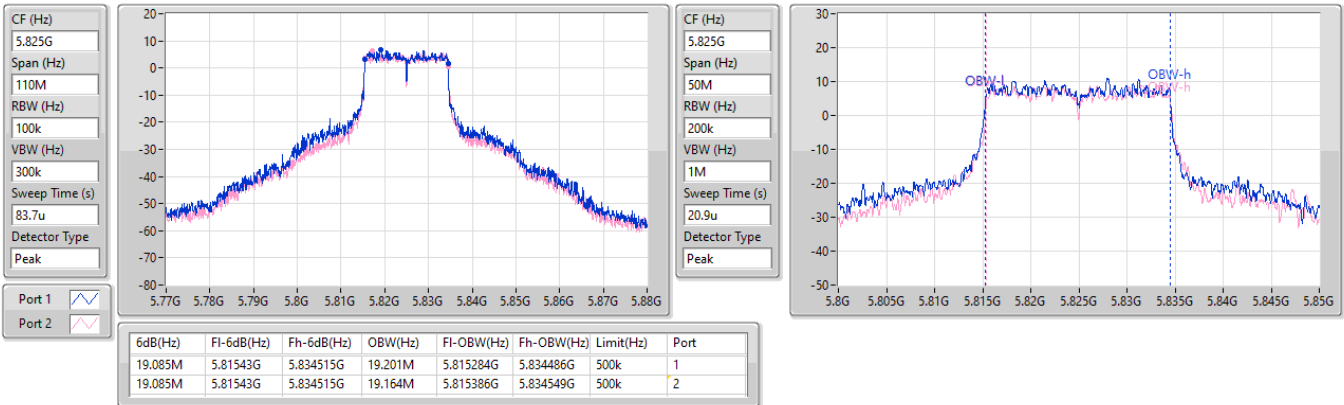


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

27/12/2024

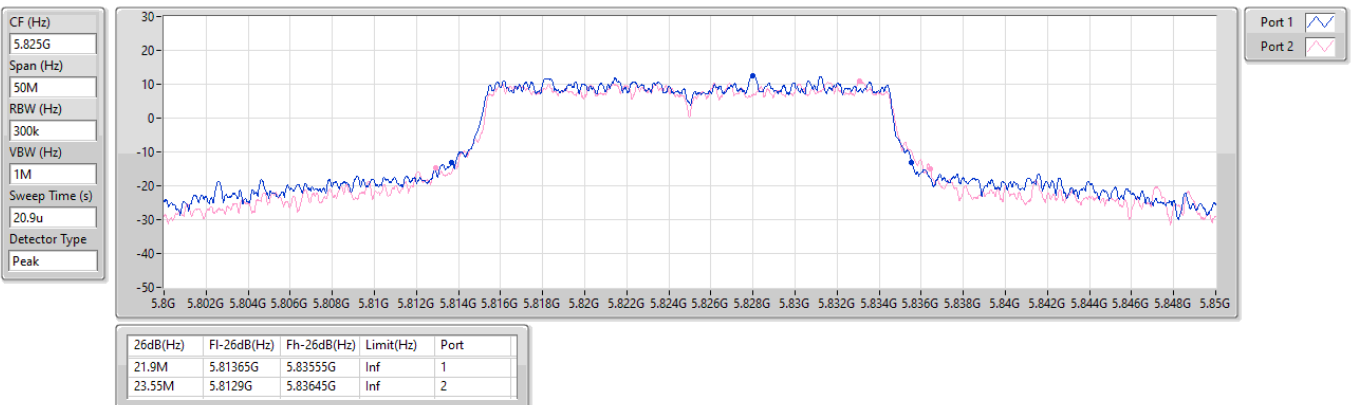


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

27/12/2024

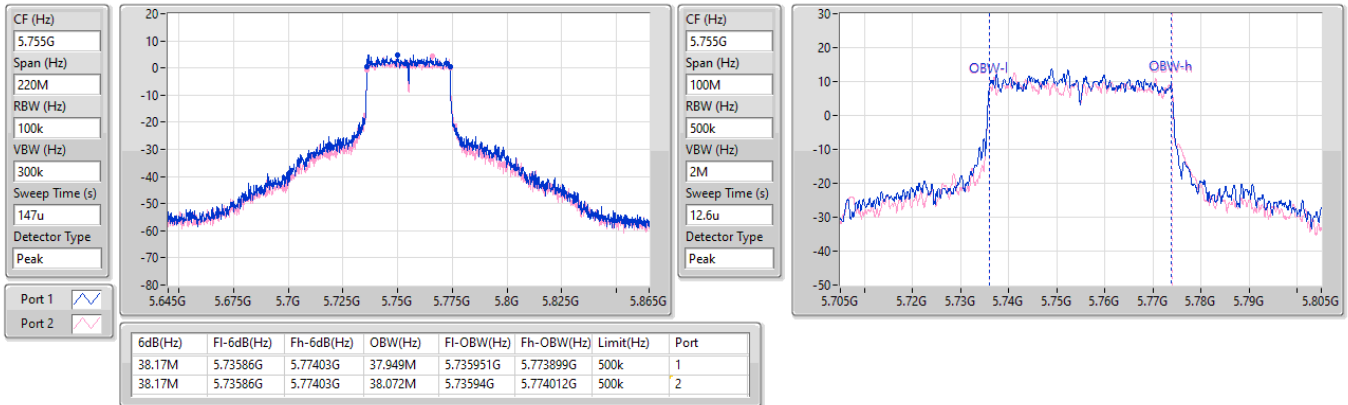


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

27/12/2024

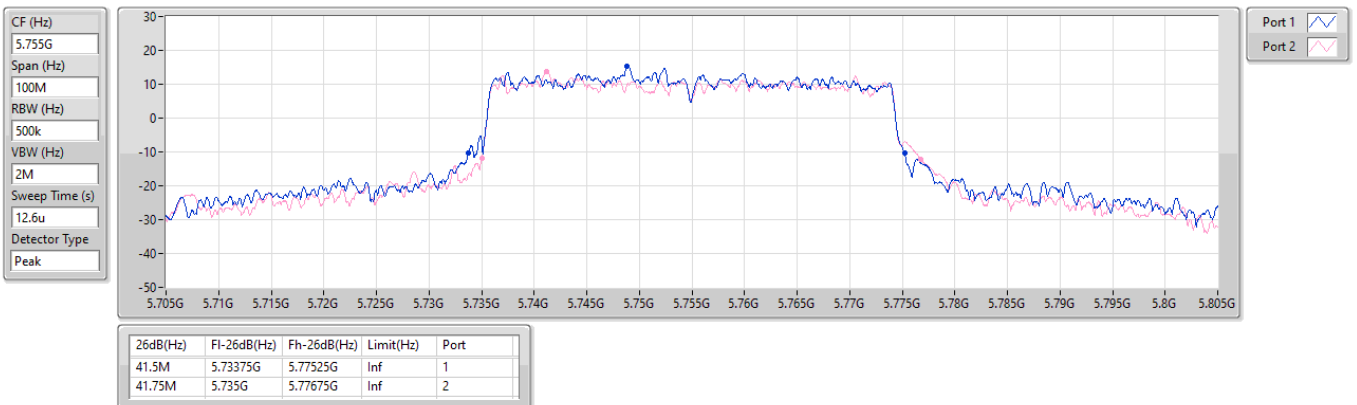


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

27/12/2024

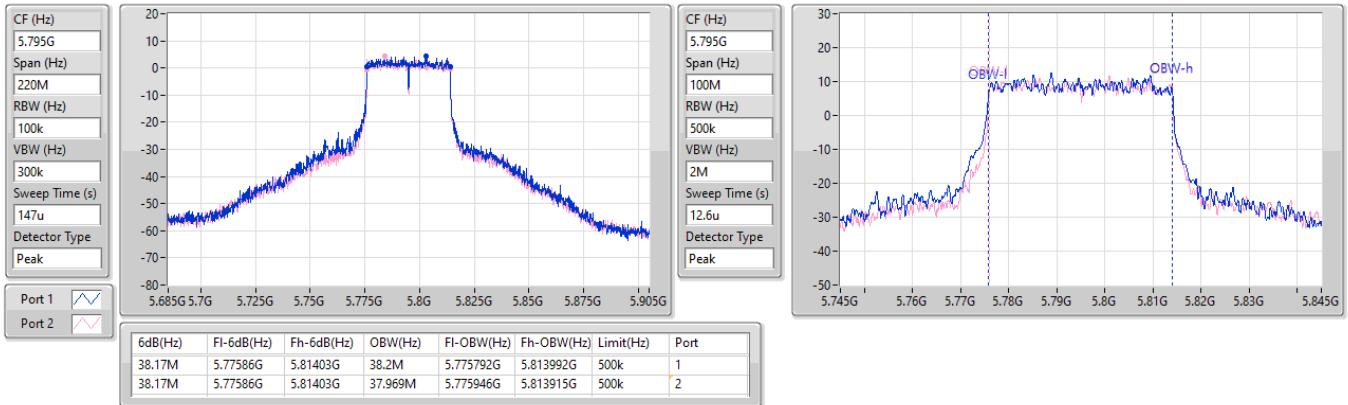


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

27/12/2024

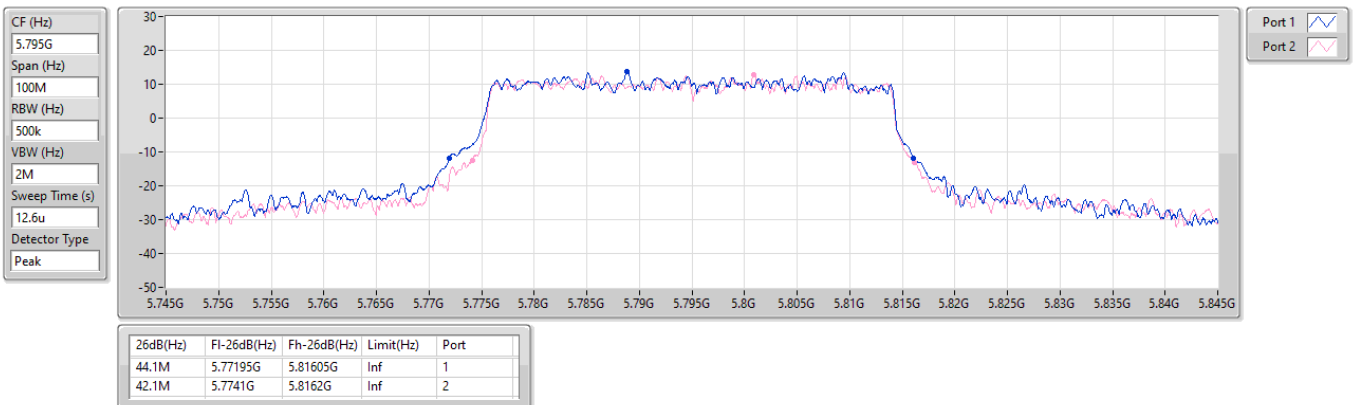


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

27/12/2024

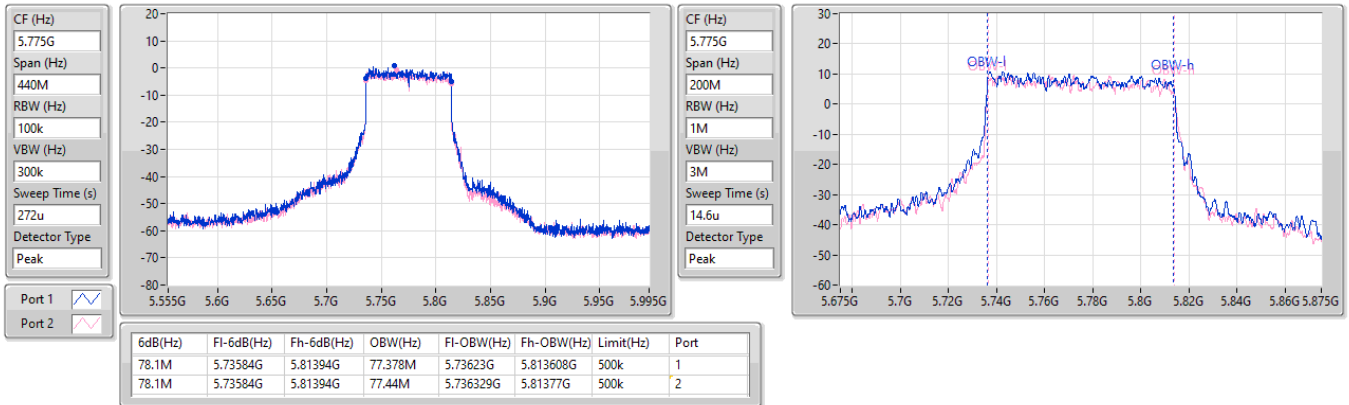


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

27/12/2024

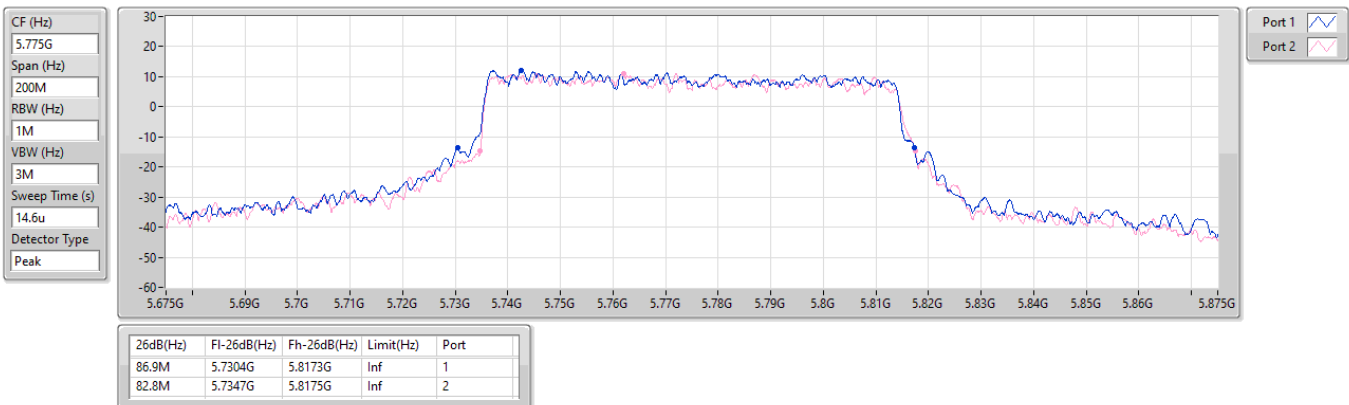


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

27/12/2024

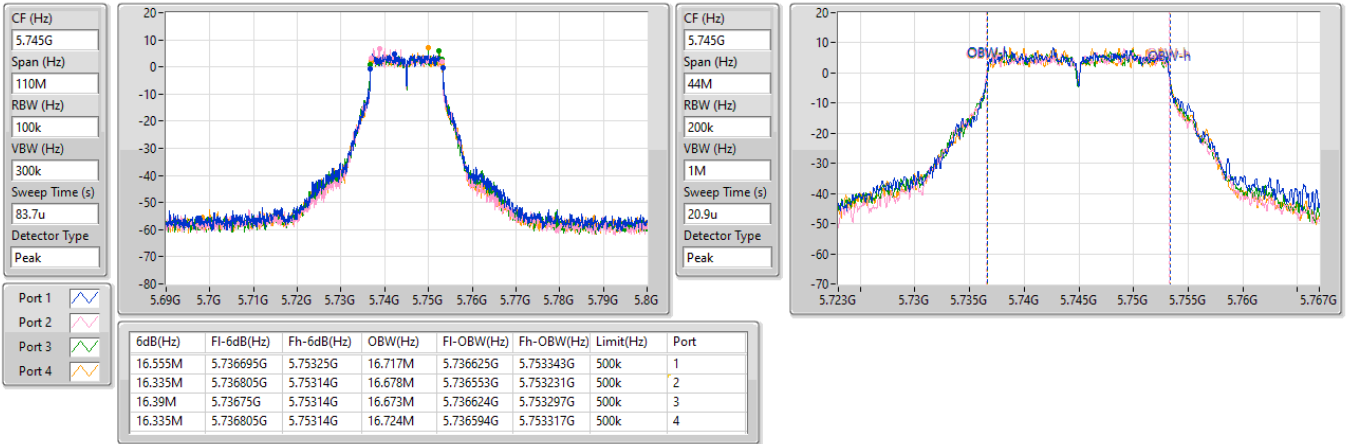


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

20/12/2024

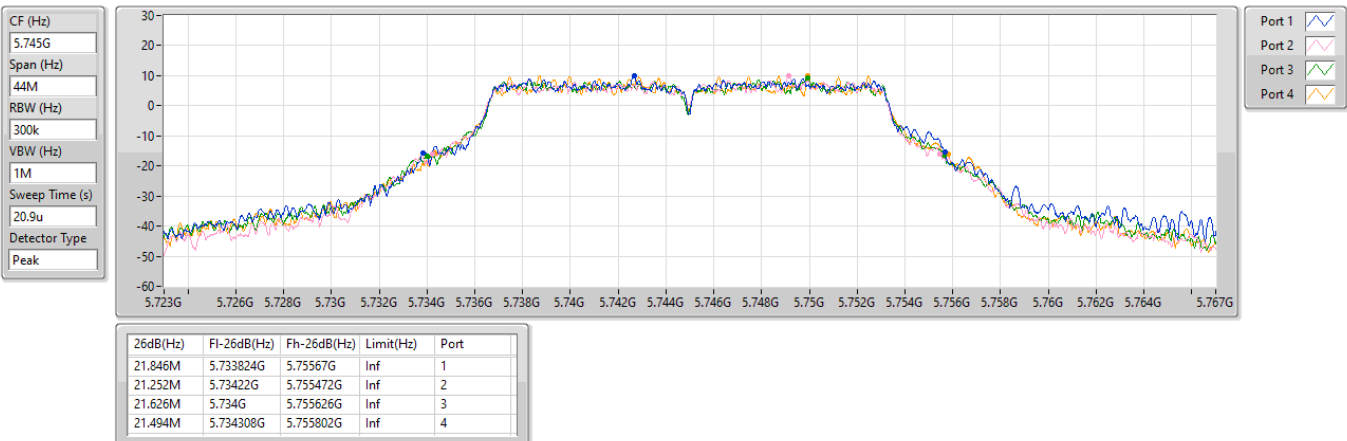


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

20/12/2024

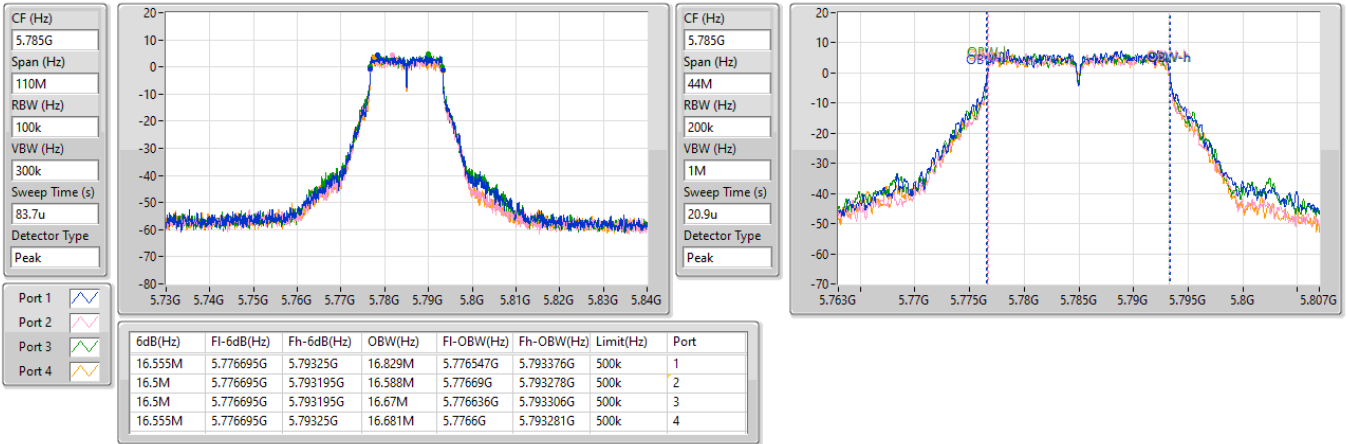


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

20/12/2024

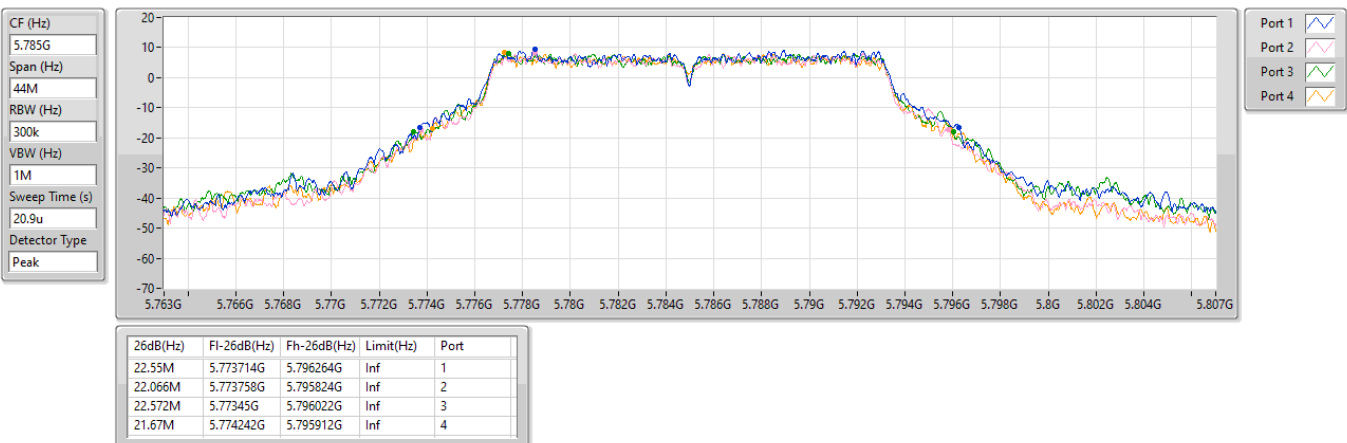


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

20/12/2024

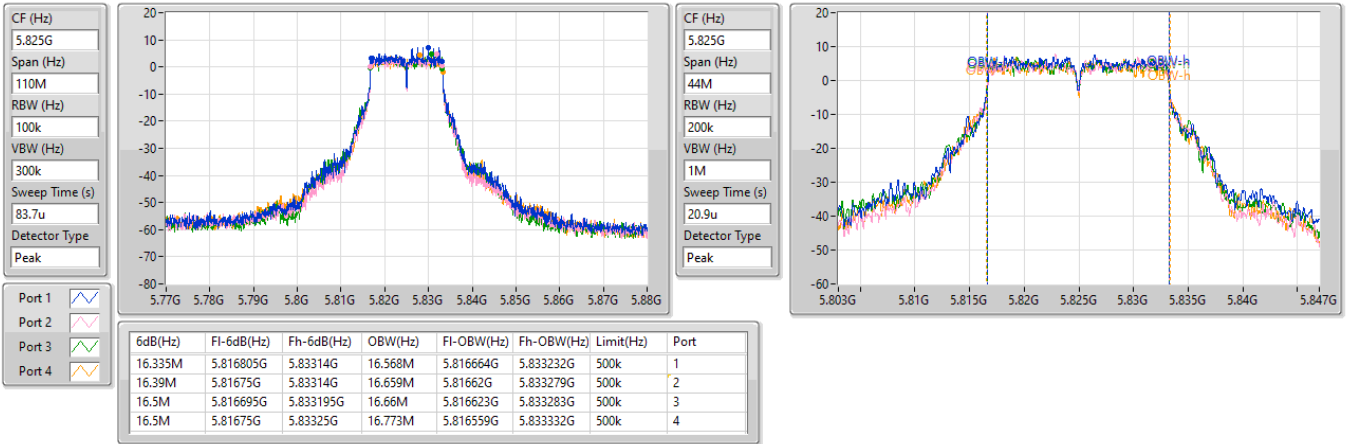


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

20/12/2024

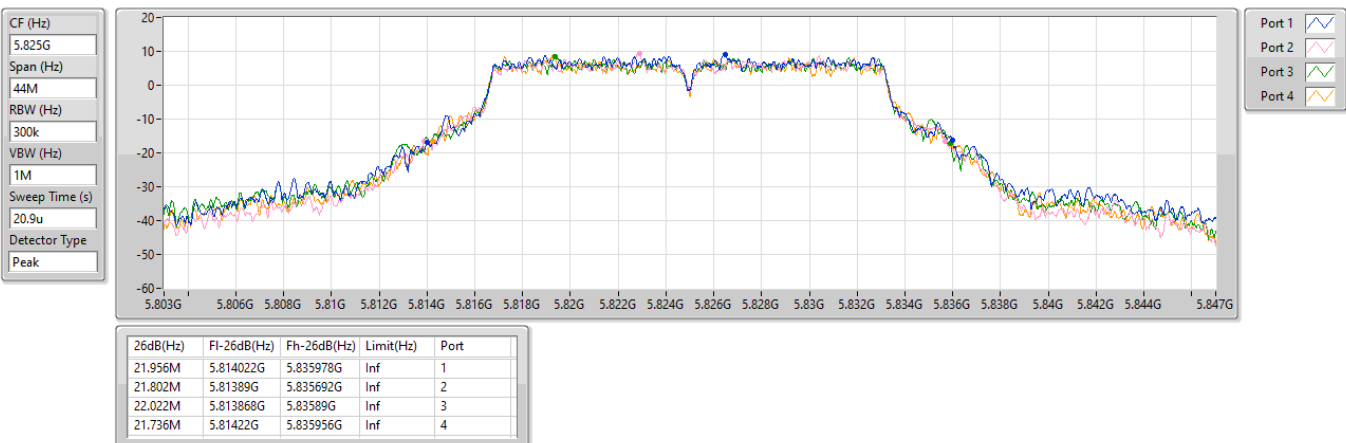


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

20/12/2024

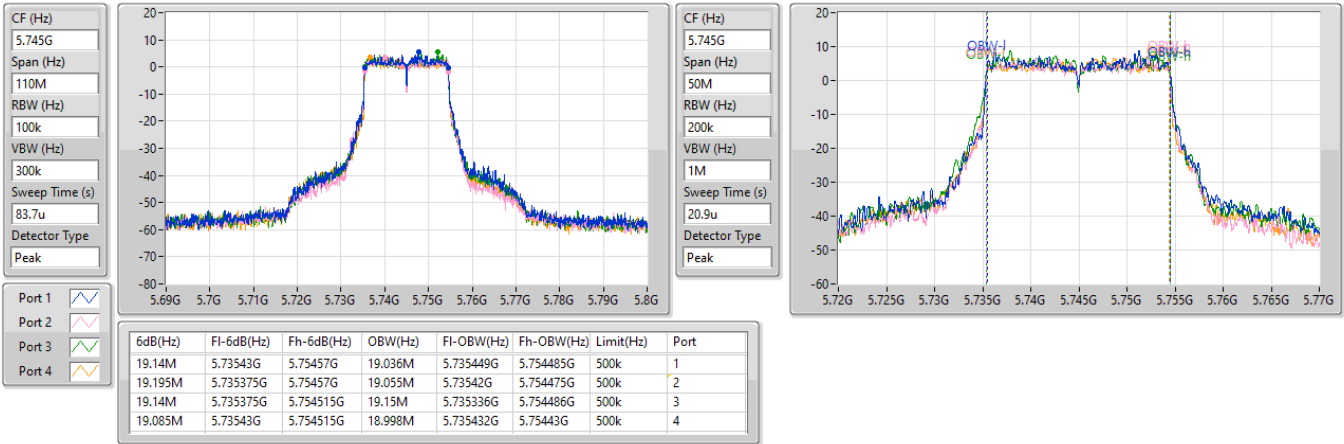


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

20/12/2024

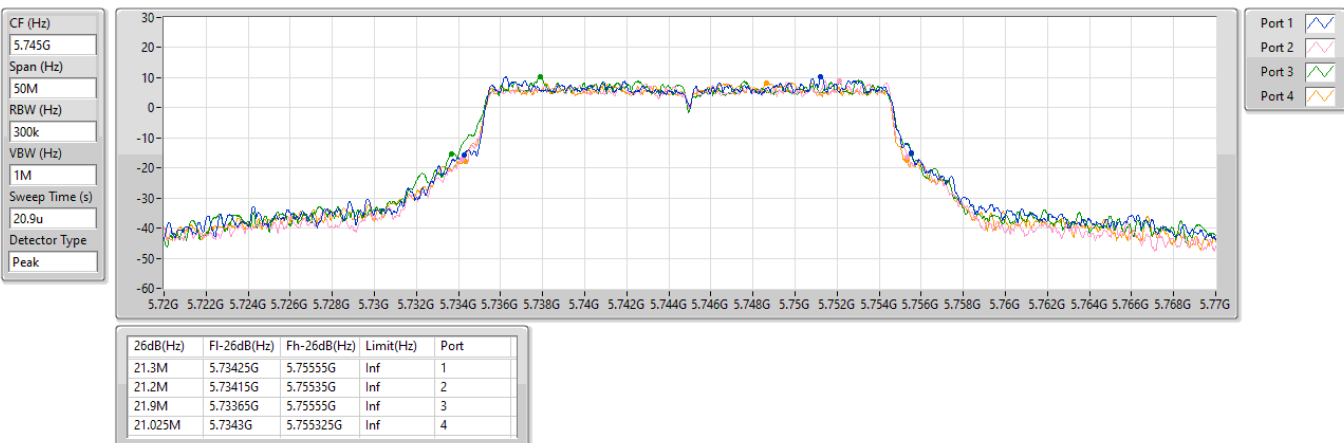


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

20/12/2024

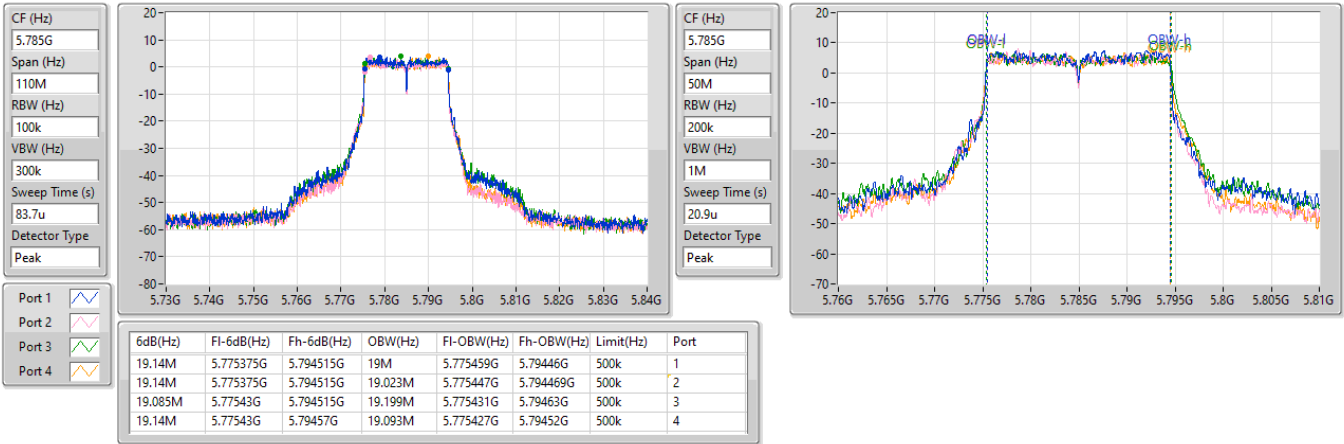


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

20/12/2024

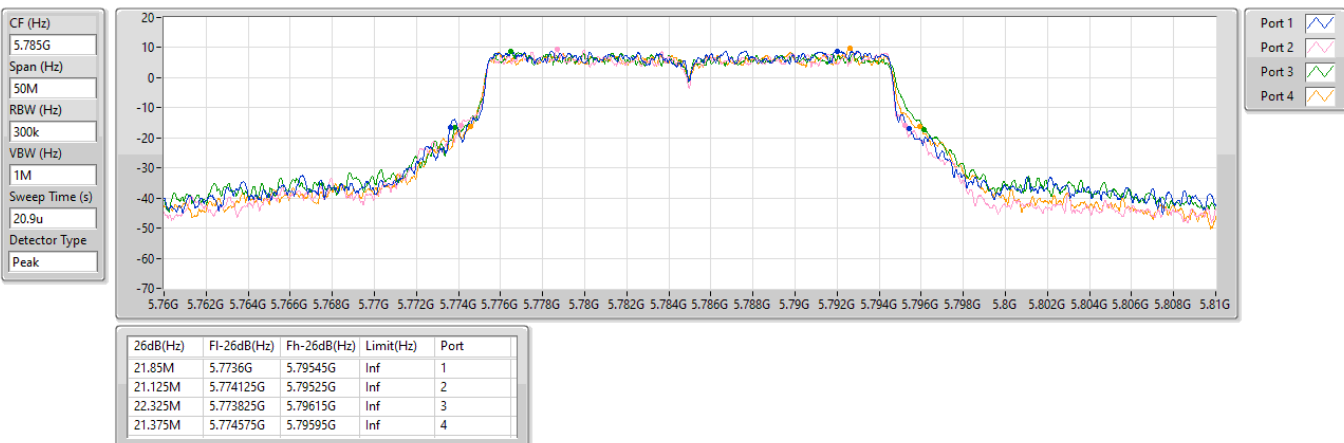


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

20/12/2024

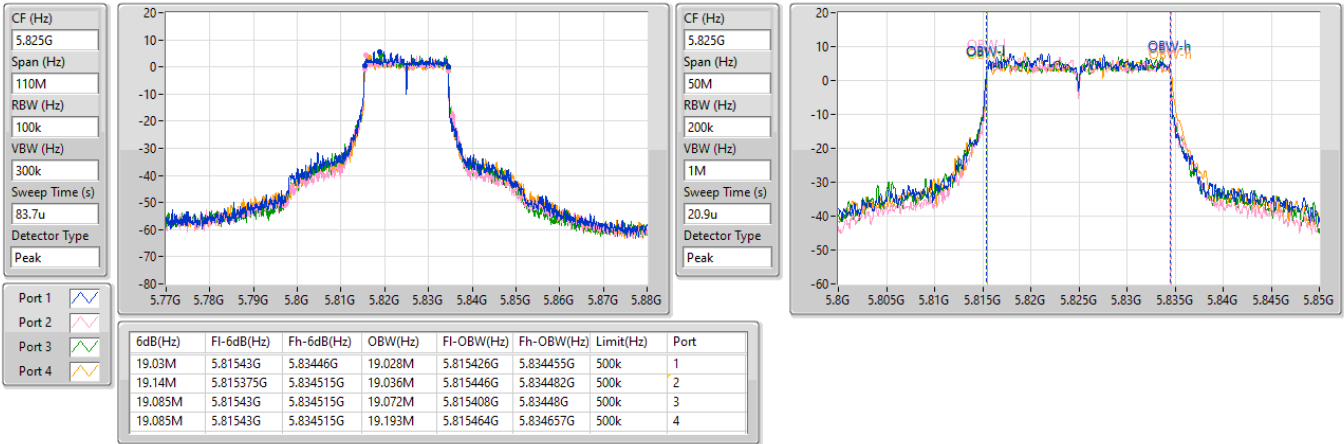


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

20/12/2024

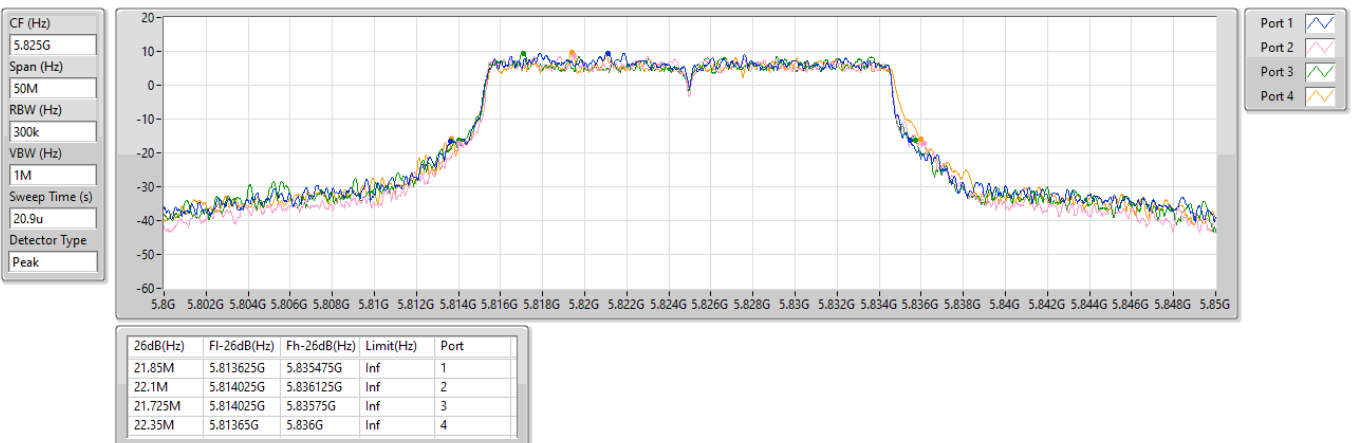


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

20/12/2024

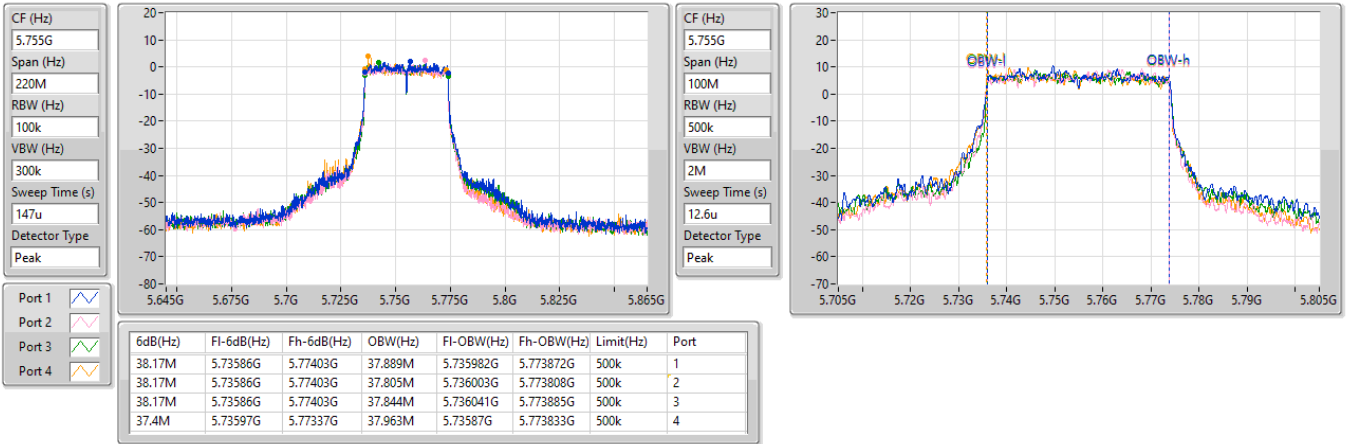


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

20/12/2024

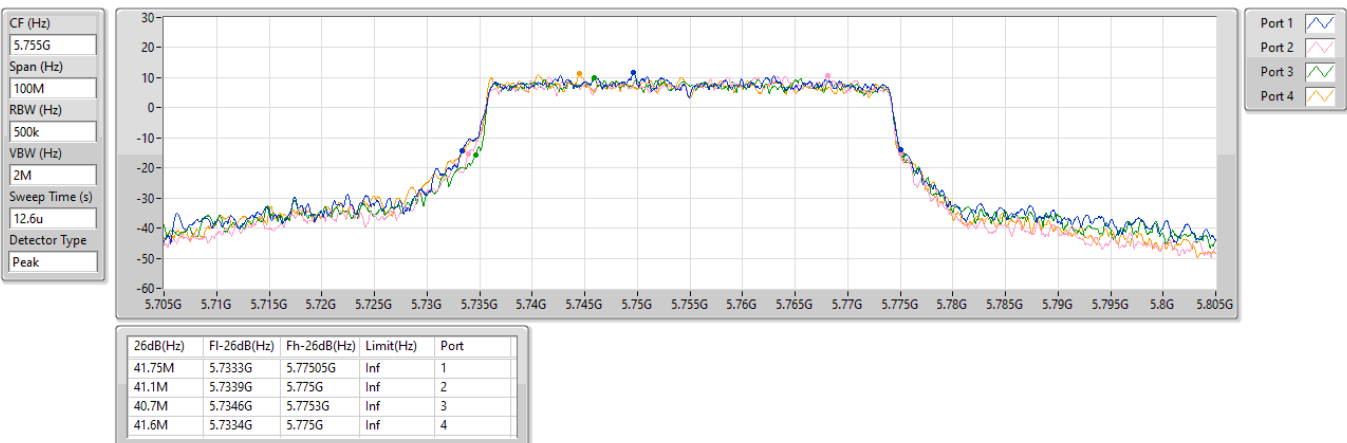


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

20/12/2024

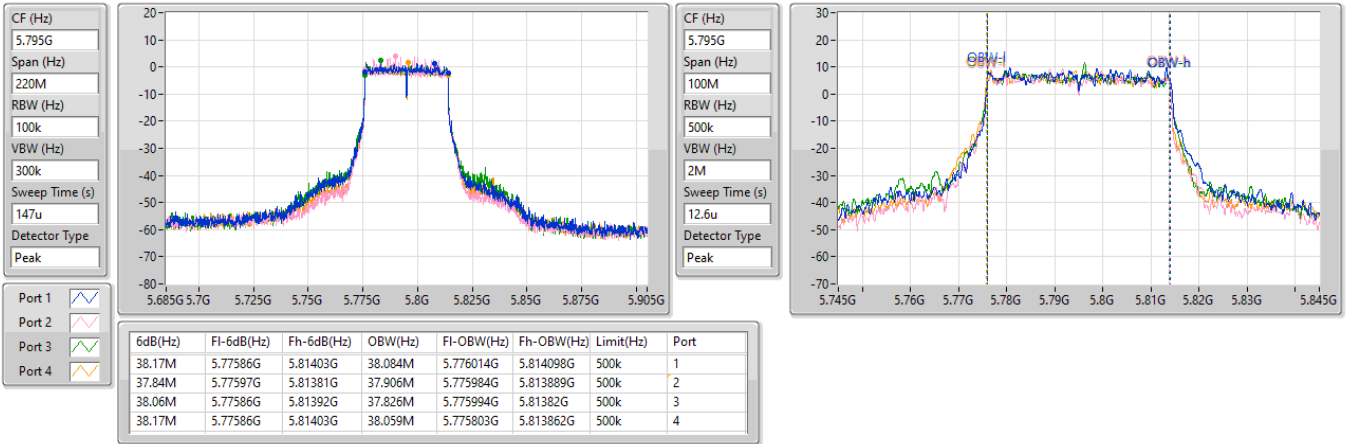


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

20/12/2024

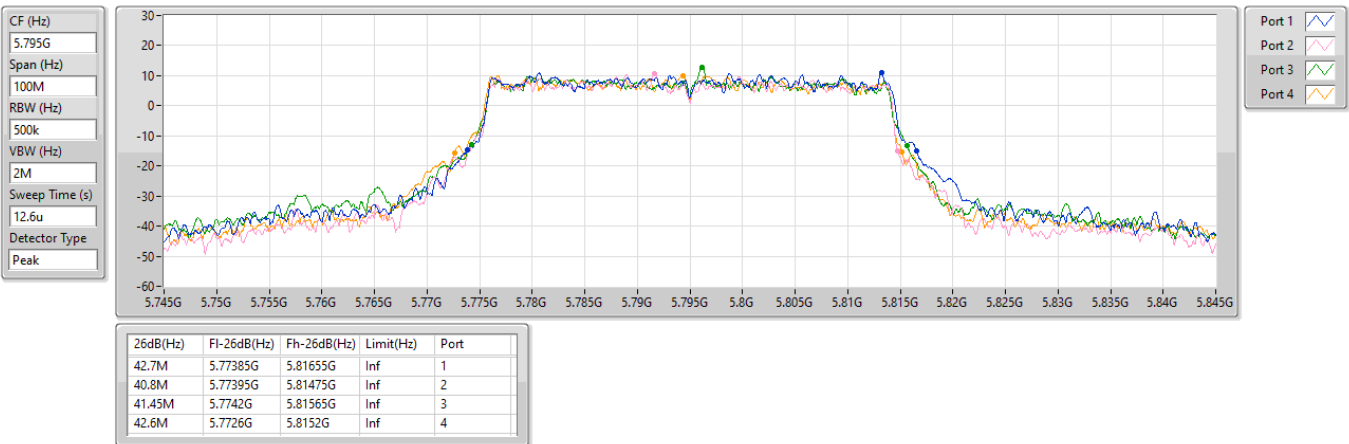


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

20/12/2024

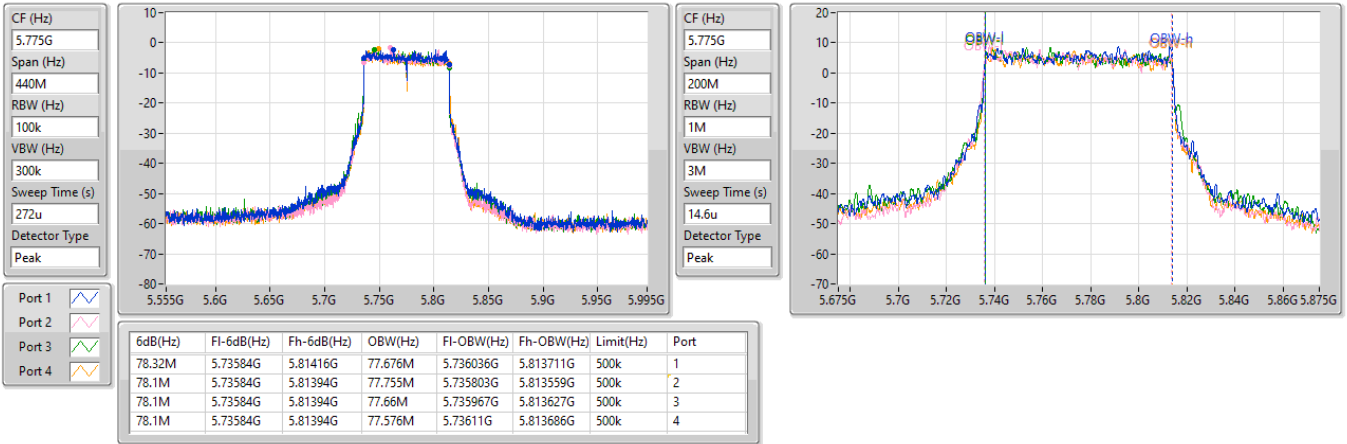


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

20/12/2024

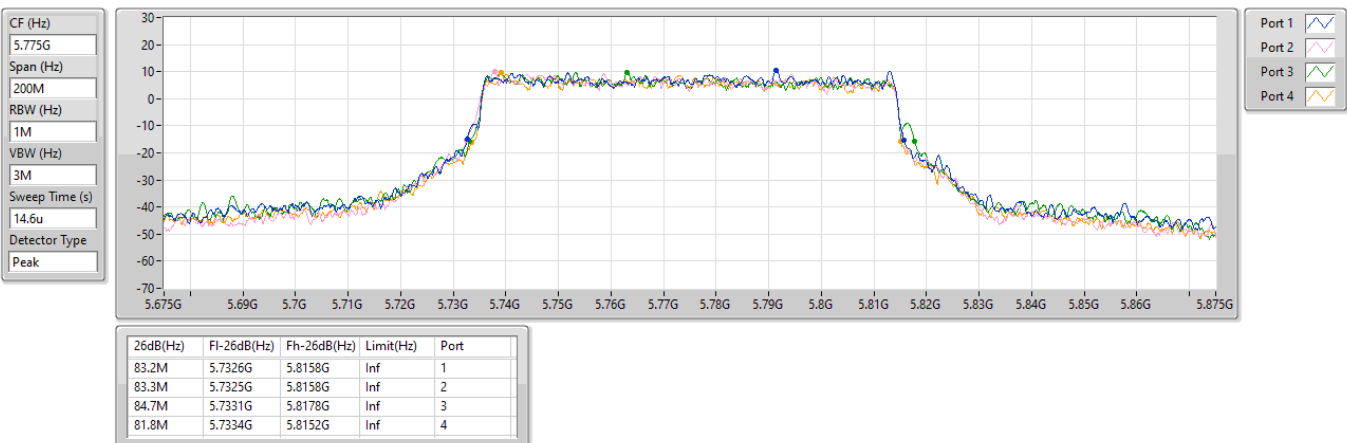


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

20/12/2024





Average Power_R1
(Parent Device / FCC ID: UDX-600216010)

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	22.93	0.19634
802.11ax HEW20_Nss1,(MCS0)_1TX	22.99	0.19907
802.11ax HEW40_Nss1,(MCS0)_1TX	22.86	0.19320
802.11ax HEW80_Nss1,(MCS0)_1TX	19.55	0.09016



Average Power_R1
(Parent Device / FCC ID: UDX-600216010)

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5745MHz	Pass	6.10	22.80	22.80	29.90
5785MHz	Pass	6.10	22.76	22.76	29.90
5825MHz	Pass	6.10	22.93	22.93	29.90
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5745MHz	Pass	6.10	22.89	22.89	29.90
5785MHz	Pass	6.10	22.90	22.90	29.90
5825MHz	Pass	6.10	22.99	22.99	29.90
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
5755MHz	Pass	6.10	22.58	22.58	29.90
5795MHz	Pass	6.10	22.86	22.86	29.90
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-
5775MHz	Pass	6.10	19.55	19.55	29.90

DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.



Average Power_R3
(Parent Device / FCC ID: UDX-600216010)

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	22.19	0.16558
802.11a_Nss1,(6Mbps)_2TX	24.89	0.30832
802.11a_Nss1,(6Mbps)_4TX	25.38	0.34514
802.11be EHT20_Nss1,(MCS0)_1TX	22.35	0.17179
802.11be EHT20_Nss1,(MCS0)_2TX	25.04	0.31915
802.11be EHT20_Nss1,(MCS0)_4TX	25.50	0.35481
802.11be EHT20-BF_Nss1,(MCS0)_2TX	25.04	0.31915
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.72	0.18707
802.11be EHT40_Nss1,(MCS0)_1TX	22.55	0.17989
802.11be EHT40_Nss1,(MCS0)_2TX	25.15	0.32734
802.11be EHT40_Nss1,(MCS0)_4TX	25.49	0.35400
802.11be EHT40-BF_Nss1,(MCS0)_2TX	25.15	0.32734
802.11be EHT40-BF_Nss1,(MCS0)_4TX	22.69	0.18578
802.11be EHT80_Nss1,(MCS0)_1TX	21.15	0.13032
802.11be EHT80_Nss1,(MCS0)_2TX	23.29	0.21330
802.11be EHT80_Nss1,(MCS0)_4TX	24.30	0.26915
802.11be EHT80-BF_Nss1,(MCS0)_2TX	23.29	0.21330
802.11be EHT80-BF_Nss1,(MCS0)_4TX	22.22	0.16672



Average Power_R3
(Parent Device / FCC ID: UDX-600216010)

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	22.19				22.19	25.60
5785MHz	Pass	10.40	22.02				22.02	25.60
5825MHz	Pass	10.40	22.04				22.04	25.60
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	22.35				22.35	25.60
5785MHz	Pass	10.40	22.13				22.13	25.60
5825MHz	Pass	10.40	22.17				22.17	25.60
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5755MHz	Pass	10.40	22.55				22.55	25.60
5795MHz	Pass	10.40	22.29				22.29	25.60
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	21.15				21.15	25.60
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	22.20	21.54			24.89	25.60
5785MHz	Pass	10.40	21.94	21.39			24.68	25.60
5825MHz	Pass	10.40	21.91	21.10			24.53	25.60
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	22.39	21.64			25.04	25.60
5785MHz	Pass	10.40	22.04	21.49			24.78	25.60
5825MHz	Pass	10.40	22.08	21.29			24.71	25.60
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5755MHz	Pass	10.40	22.54	21.69			25.15	25.60
5795MHz	Pass	10.40	22.15	21.51			24.85	25.60
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	20.59	19.95			23.29	25.60
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	19.79	19.21	19.35	19.04	25.38	25.60
5785MHz	Pass	10.40	19.56	18.82	19.38	18.83	25.18	25.60
5825MHz	Pass	10.40	19.62	18.86	19.11	18.81	25.13	25.60
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	19.90	19.32	19.51	19.17	25.50	25.60
5785MHz	Pass	10.40	19.71	19.01	19.49	18.89	25.31	25.60
5825MHz	Pass	10.40	19.76	18.86	19.19	18.84	25.20	25.60
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	10.40	19.98	19.23	19.47	19.15	25.49	25.60
5795MHz	Pass	10.40	19.84	18.77	19.29	18.96	25.25	25.60
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	18.76	18.03	18.28	18.01	24.30	25.60
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	22.39	21.64			25.04	25.60
5785MHz	Pass	10.40	22.04	21.49			24.78	25.60
5825MHz	Pass	10.40	22.08	21.29			24.71	25.60
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5755MHz	Pass	10.40	22.54	21.69			25.15	25.60
5795MHz	Pass	10.40	22.15	21.51			24.85	25.60
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	20.59	19.95			23.29	25.60
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	13.21	16.66	16.19	16.34	16.25	22.38	22.79
5785MHz	Pass	13.21	17.02	16.41	16.97	16.36	22.72	22.79
5825MHz	Pass	13.21	16.72	16.03	16.41	15.96	22.31	22.79
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	13.21	16.67	16.07	16.30	16.02	22.29	22.79
5795MHz	Pass	13.21	17.09	16.29	17.06	16.17	22.69	22.79



Average Power_R3
(Parent Device / FCC ID: UDX-600216010)

Appendix C.2

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	13.21	16.59	15.93	16.43	15.78	22.22	22.79

DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	8.82
802.11ax HEW20_Nss1,(MCS0)_1TX	7.98
802.11ax HEW40_Nss1,(MCS0)_1TX	5.14
802.11ax HEW80_Nss1,(MCS0)_1TX	-1.36

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5745MHz	Pass	6.10	8.48	8.48	29.90
5785MHz	Pass	6.10	8.47	8.47	29.90
5825MHz	Pass	6.10	8.82	8.82	29.90
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5745MHz	Pass	6.10	7.98	7.98	29.90
5785MHz	Pass	6.10	7.73	7.73	29.90
5825MHz	Pass	6.10	7.90	7.90	29.90
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
5755MHz	Pass	6.10	4.77	4.77	29.90
5795MHz	Pass	6.10	5.14	5.14	29.90
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-
5775MHz	Pass	6.10	-1.36	-1.36	29.90

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

21/12/2024

CF (Hz)
5.745G

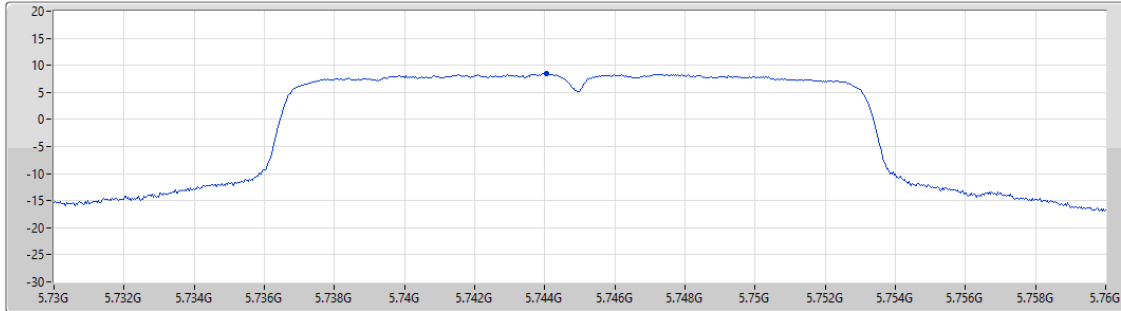
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.48	8.48	8.48

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5785MHz

21/12/2024

CF (Hz)
5.785G

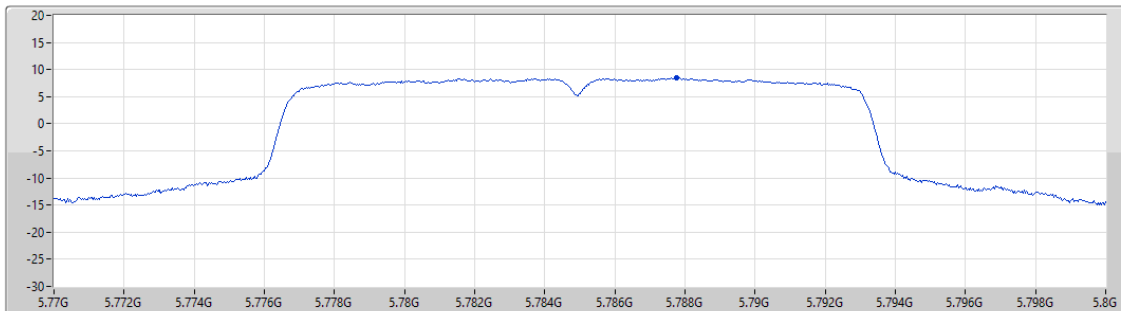
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Port 1

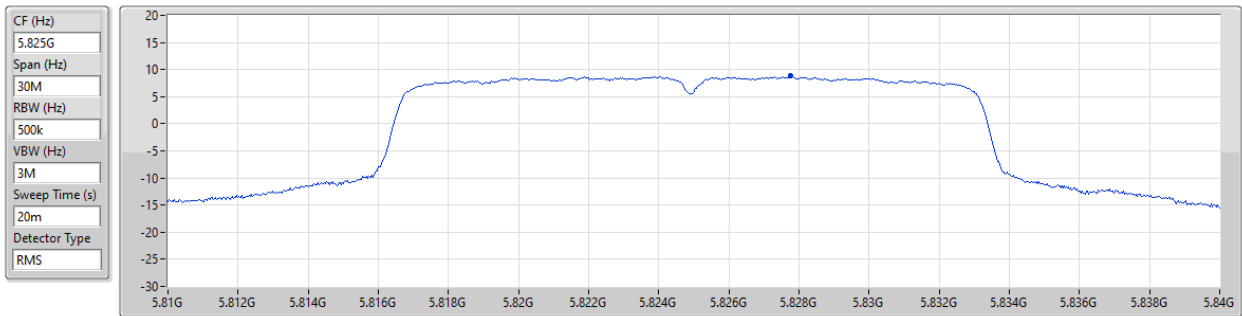
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.47	8.47	8.47

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5825MHz

21/12/2024



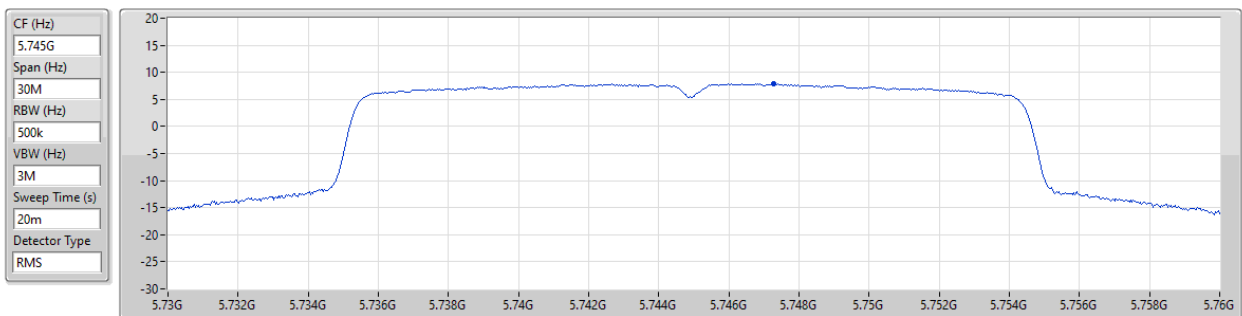
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.82	8.82	8.82

5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

5745MHz

21/12/2024



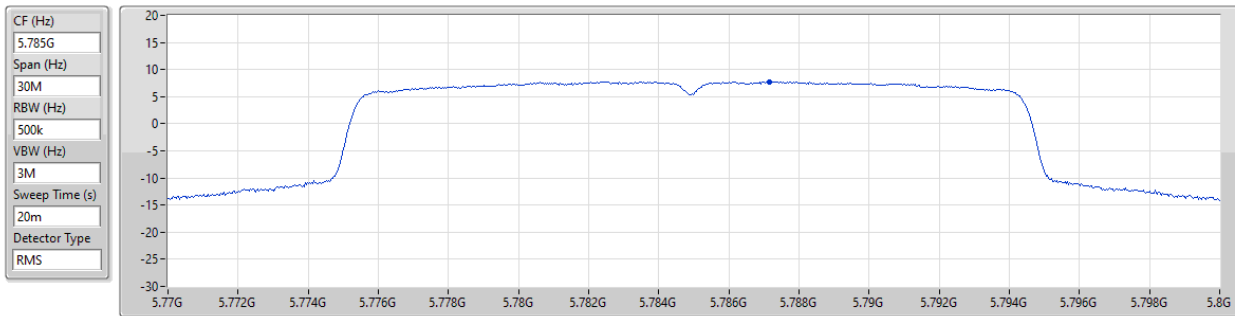
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.98	7.98	7.98

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5785MHz

21/12/2024



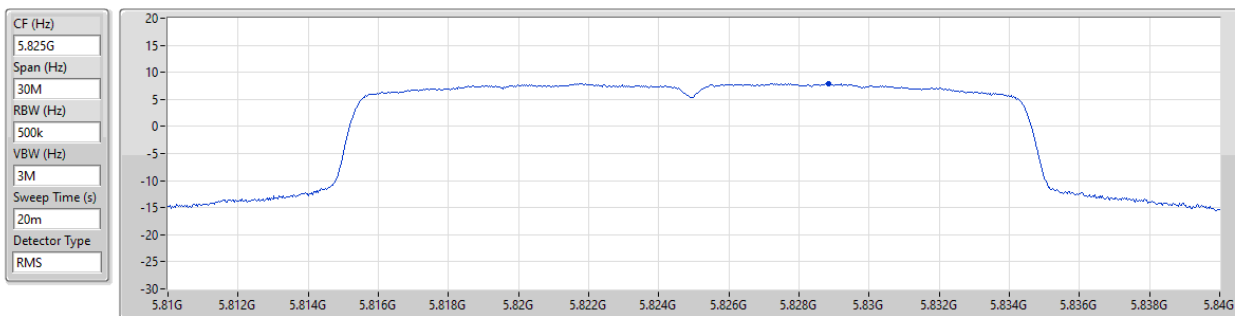
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.73	7.73	7.73

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5825MHz

21/12/2024



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.90	7.90	7.90

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5755MHz

21/12/2024

CF (Hz)
5.755G

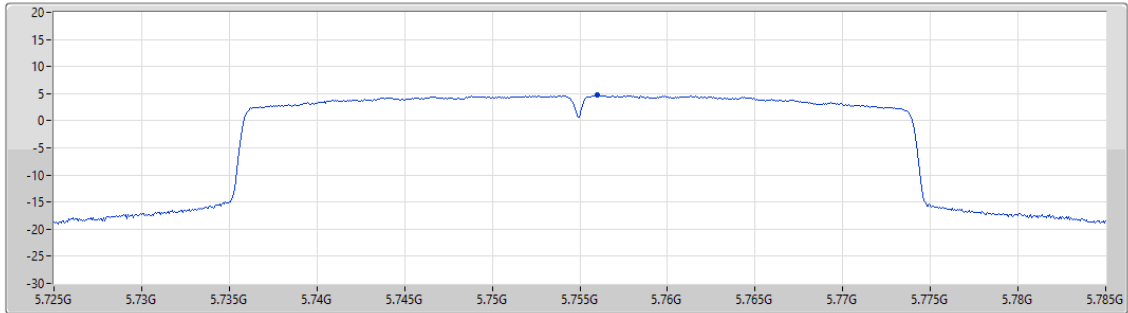
Span (Hz)
60M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.77	4.77	4.77

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5795MHz

21/12/2024

CF (Hz)
5.795G

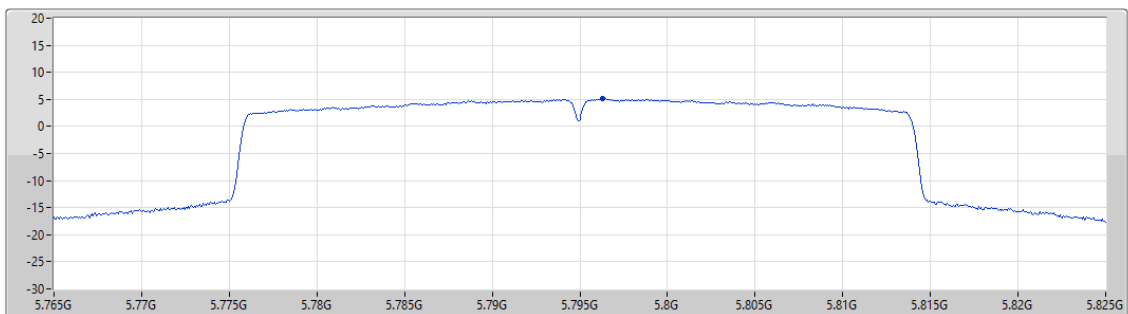
Span (Hz)
60M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.14	5.14	5.14

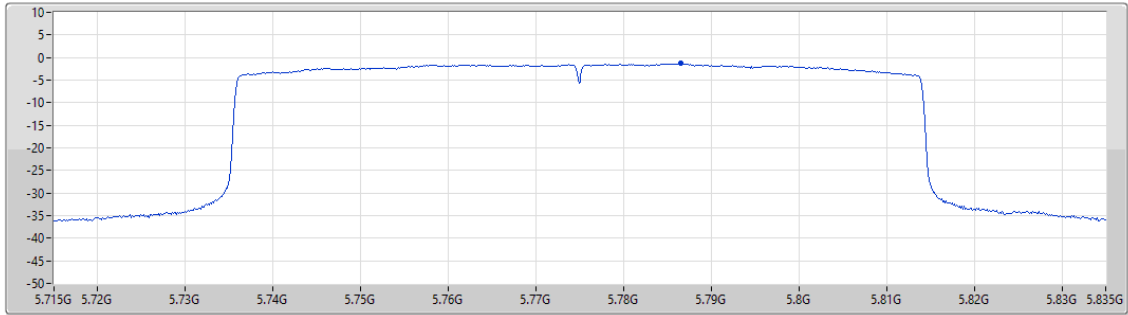
5.725-5.85GHz_802.11ax_HEW80_Nss1,(MCS0)_1TX

PSD

5775MHz

21/12/2024

CF (Hz)
5.775G
Span (Hz)
120M
RBW (Hz)
500k
VBW (Hz)
3M
Sweep Time (s)
20m
Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.36	-1.36	-1.36



Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	7.55
802.11a_Nss1,(6Mbps)_2TX	10.17
802.11a_Nss1,(6Mbps)_4TX	10.52
802.11be EHT20_Nss1,(MCS0)_1TX	6.97
802.11be EHT20_Nss1,(MCS0)_2TX	9.71
802.11be EHT20_Nss1,(MCS0)_4TX	9.99
802.11be EHT40_Nss1,(MCS0)_1TX	4.18
802.11be EHT40_Nss1,(MCS0)_2TX	6.74
802.11be EHT40_Nss1,(MCS0)_4TX	7.07
802.11be EHT80_Nss1,(MCS0)_1TX	-0.26
802.11be EHT80_Nss1,(MCS0)_2TX	2.14
802.11be EHT80_Nss1,(MCS0)_4TX	3.05

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



PSD_R3_Full RU
(Parent Device / FCC ID: UDX-600216010)

Appendix D.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	7.55				7.55	25.60
5785MHz	Pass	10.40	7.46				7.46	25.60
5825MHz	Pass	10.40	7.48				7.48	25.60
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	6.97				6.97	25.60
5785MHz	Pass	10.40	6.76				6.76	25.60
5825MHz	Pass	10.40	6.86				6.86	25.60
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5755MHz	Pass	10.40	4.18				4.18	25.60
5795MHz	Pass	10.40	3.98				3.98	25.60
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-0.26				-0.26	25.60
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	7.50	6.97			10.17	25.60
5785MHz	Pass	10.40	7.23	6.81			9.99	25.60
5825MHz	Pass	10.40	7.28	6.36			9.78	25.60
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5745MHz	Pass	10.40	7.06	6.39			9.71	25.60
5785MHz	Pass	10.40	6.66	6.31			9.49	25.60
5825MHz	Pass	10.40	6.75	5.85			9.29	25.60
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5755MHz	Pass	10.40	4.18	3.39			6.74	25.60
5795MHz	Pass	10.40	3.97	3.33			6.64	25.60
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-0.56	-1.08			2.14	25.60
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	13.21	5.03	4.35	4.73	4.15	10.52	22.79
5785MHz	Pass	13.21	4.73	4.15	4.70	4.00	10.34	22.79
5825MHz	Pass	13.21	4.91	3.98	4.52	3.86	10.30	22.79
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	13.21	4.31	3.87	4.16	3.60	9.99	22.79
5785MHz	Pass	13.21	4.24	3.58	4.23	3.40	9.87	22.79
5825MHz	Pass	13.21	4.37	3.47	4.18	3.28	9.84	22.79
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	13.21	1.59	0.94	1.14	0.93	7.07	22.79
5795MHz	Pass	13.21	1.39	0.43	0.92	0.83	6.86	22.79
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	13.21	-2.55	-3.07	-2.88	-2.98	3.05	22.79

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

27/12/2024

CF (Hz)
5.745G

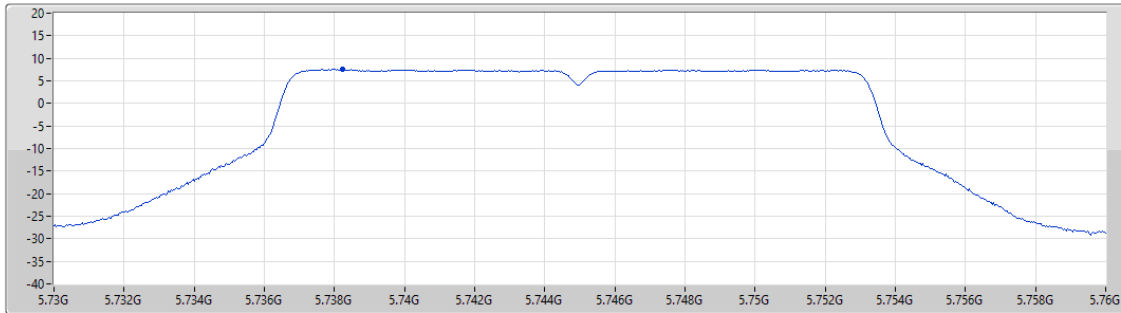
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.55	7.55	7.55

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5785MHz

27/12/2024

CF (Hz)
5.785G

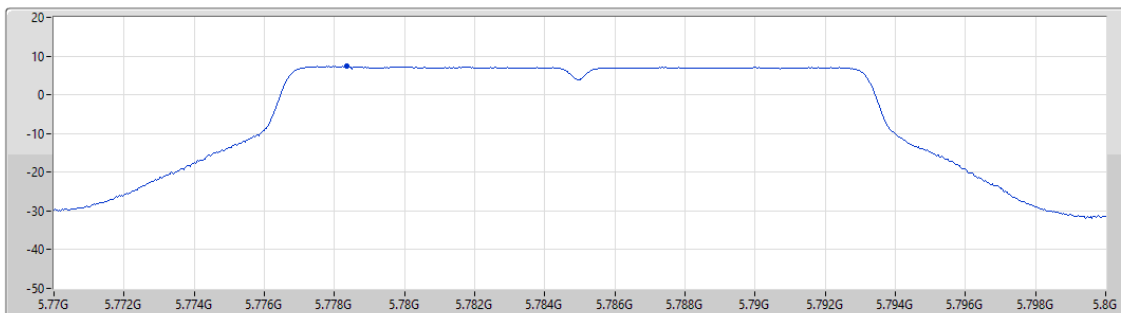
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.46	7.46	7.46

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5825MHz

27/12/2024

CF (Hz)
5.825G

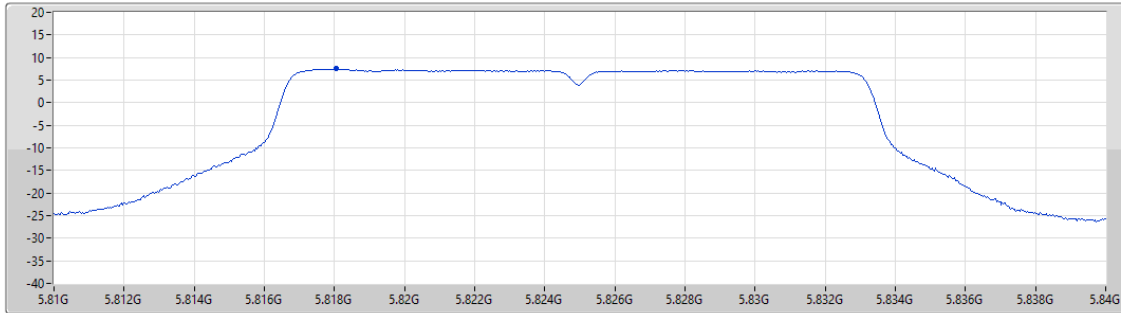
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.48	7.48	7.48

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

5745MHz

27/12/2024

CF (Hz)
5.745G

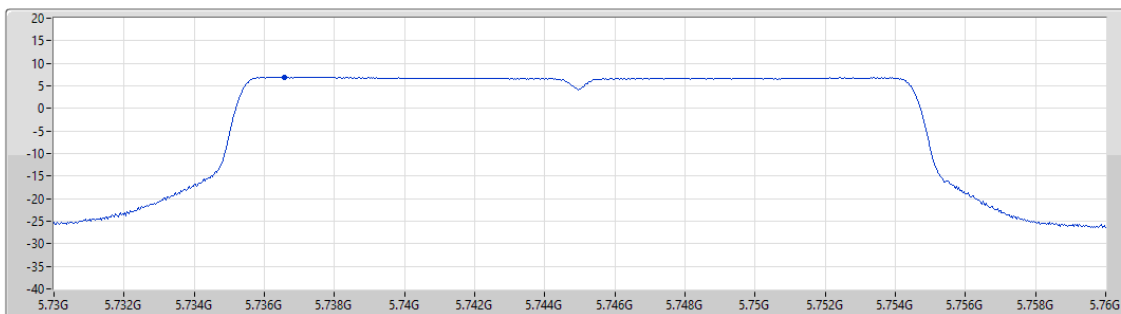
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
54.739

Detector Type
RMS



Port 1

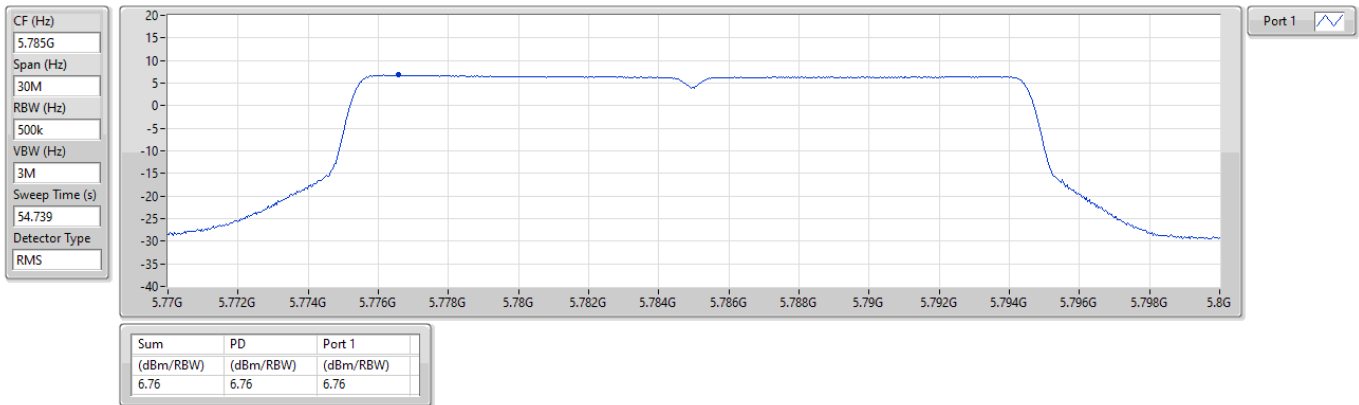
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.97	6.97	6.97

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

5785MHz

27/12/2024

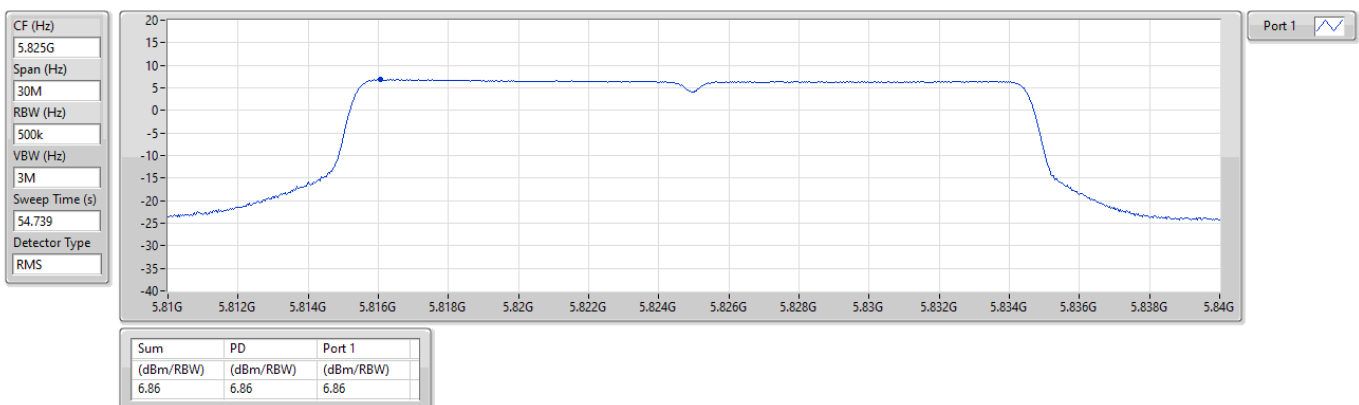


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

5825MHz

27/12/2024

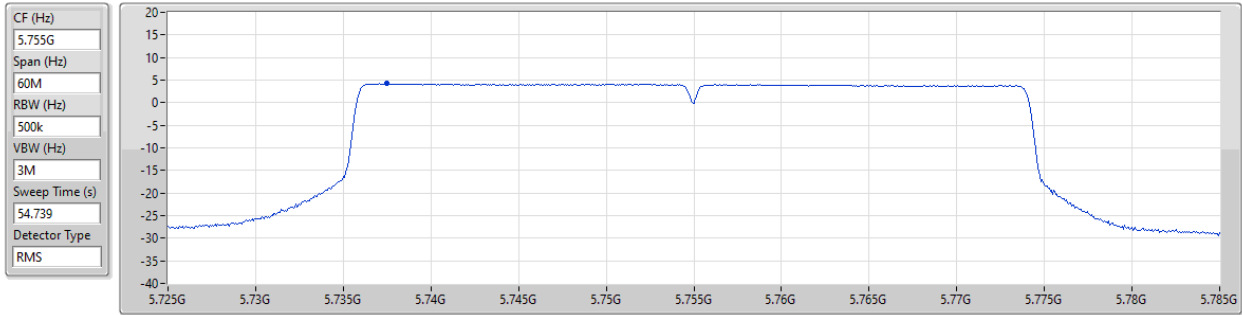


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

PSD

5755MHz

27/12/2024



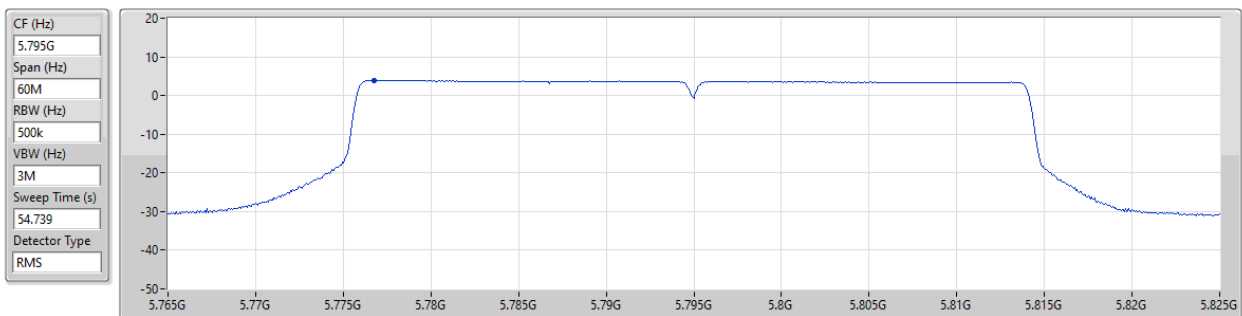
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.18	4.18	4.18

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

PSD

5795MHz

27/12/2024



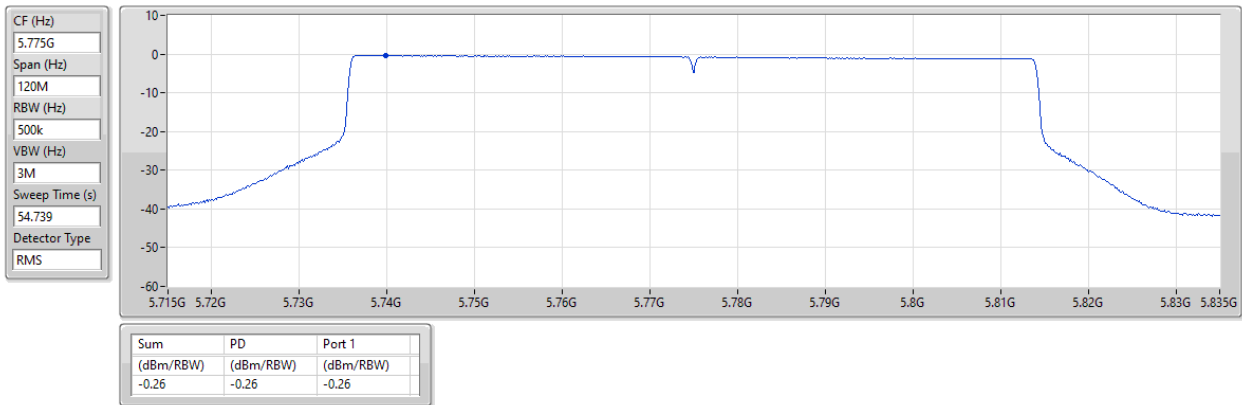
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.98	3.98	3.98

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

PSD

5775MHz

18/12/2024

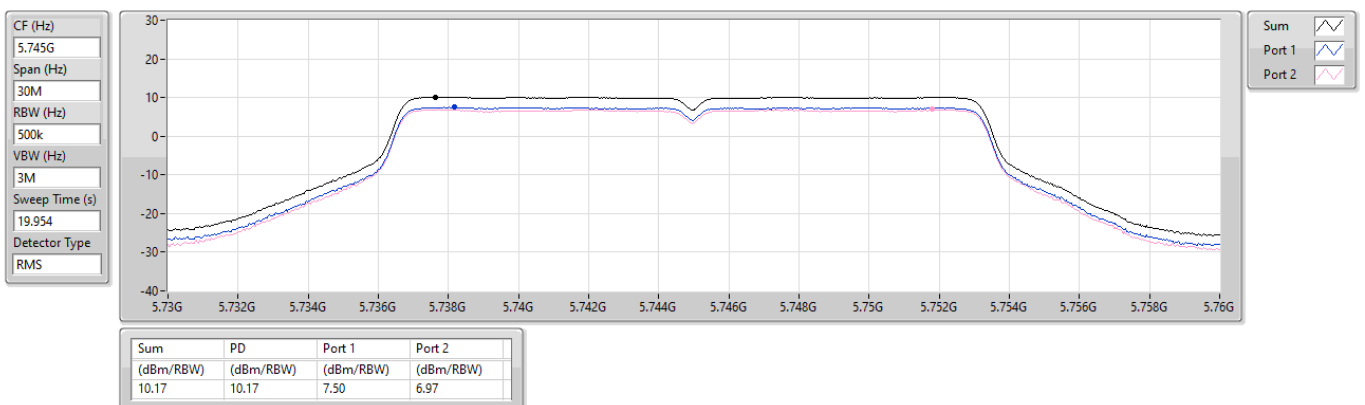


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

27/12/2024



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

27/12/2024

CF (Hz)
5.785G

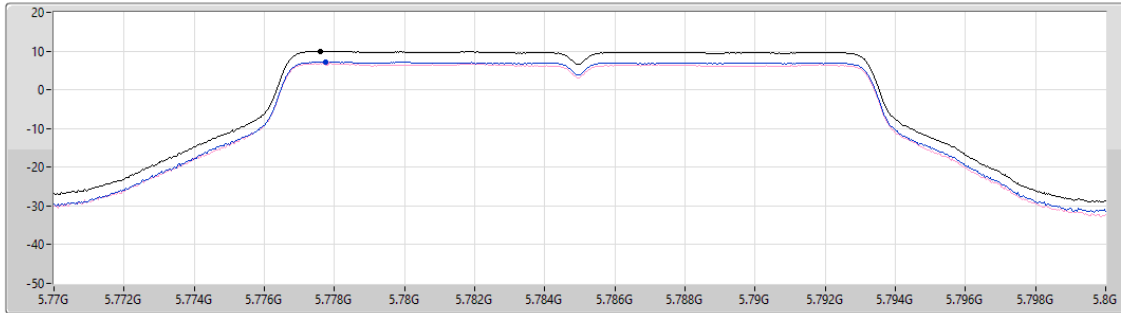
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.99	9.99	7.23	6.81

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

27/12/2024

CF (Hz)
5.825G

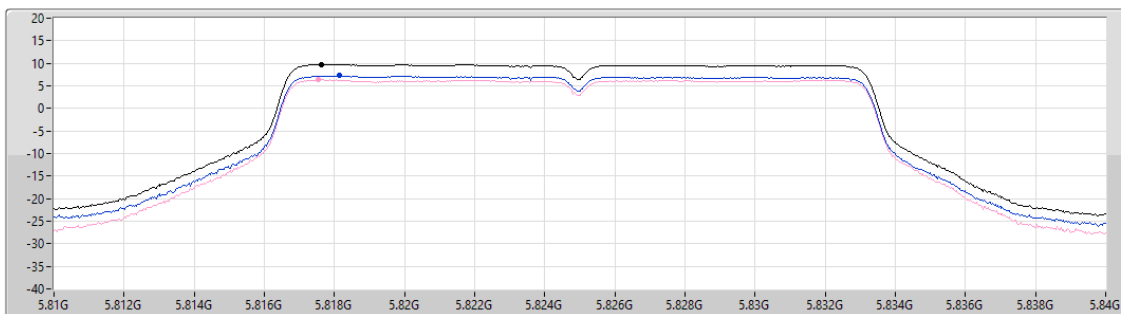
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.78	9.78	7.28	6.36

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

27/12/2024

CF (Hz)
5.745G

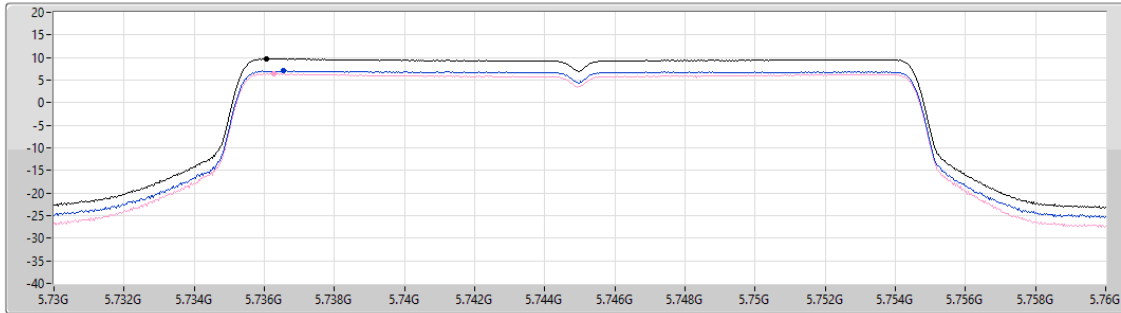
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
54.739

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.71	9.71	7.06	6.39

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

27/12/2024

CF (Hz)
5.785G

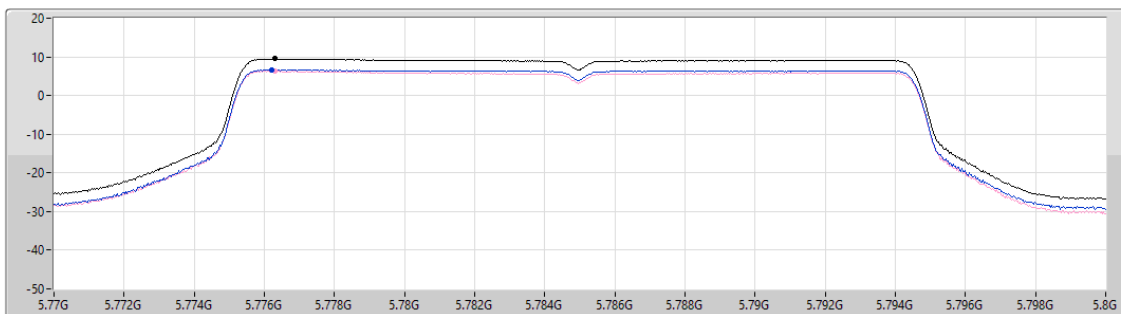
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
54.739

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.49	9.49	6.66	6.31

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

27/12/2024

CF (Hz)
5.825G

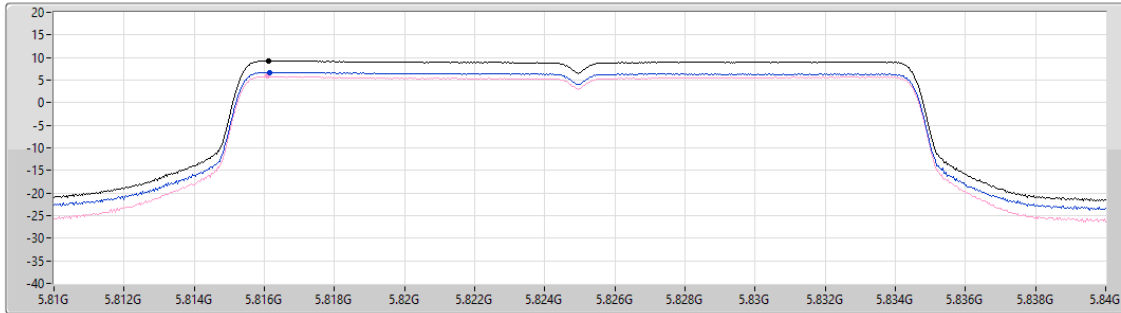
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
54.739

Detector Type
RMS



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.29	9.29	6.75	5.85

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

27/12/2024

CF (Hz)
5.755G

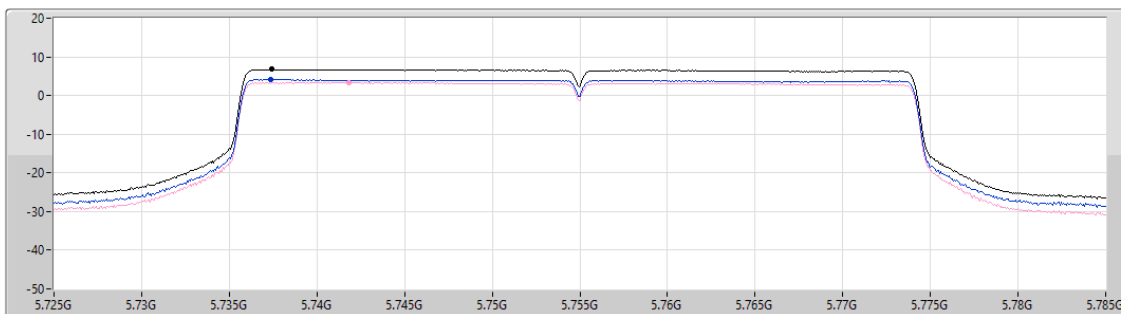
Span (Hz)
60M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
54.739

Detector Type
RMS



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.74	6.74	4.18	3.39

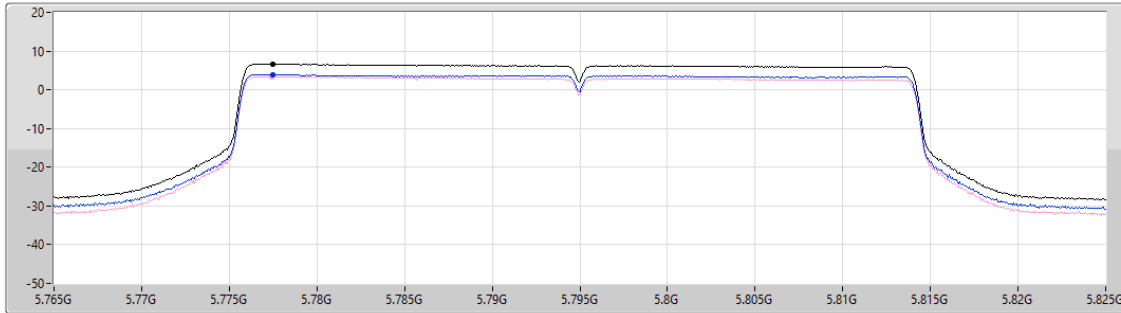
5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

27/12/2024

CF (Hz)
5.795G
Span (Hz)
60M
RBW (Hz)
500k
VBW (Hz)
3M
Sweep Time (s)
54.739
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.64	6.64	3.97	3.33

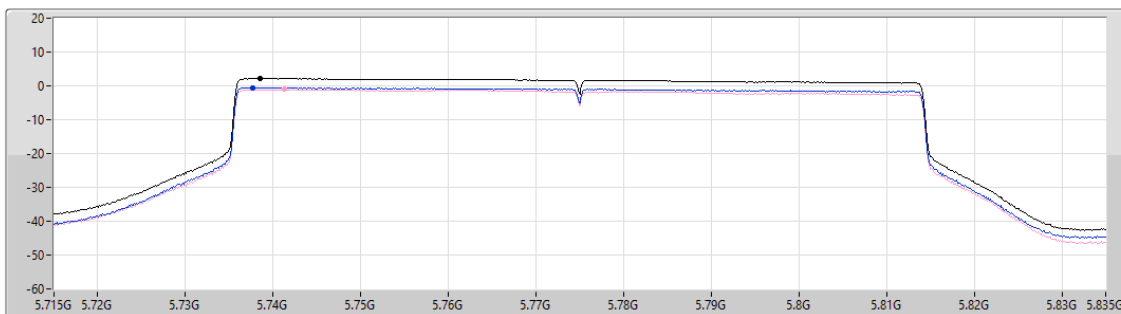
5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

27/12/2024

CF (Hz)
5.775G
Span (Hz)
120M
RBW (Hz)
500k
VBW (Hz)
3M
Sweep Time (s)
54.739
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.14	2.14	-0.56	-1.08

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5745MHz

20/12/2024

CF (Hz)
5.745G

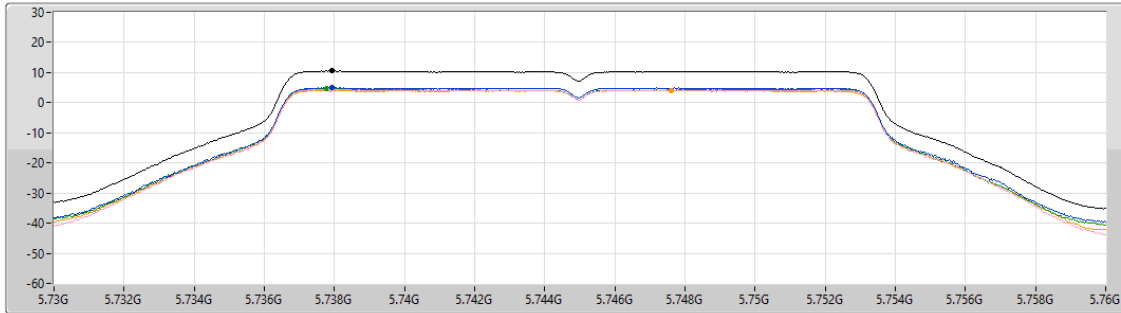
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.52	10.52	5.03	4.35	4.73	4.15

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

20/12/2024

CF (Hz)
5.785G

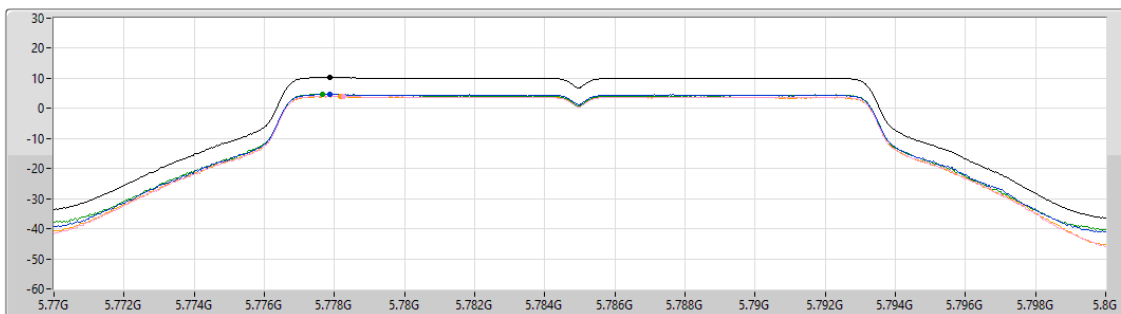
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.34	10.34	4.73	4.15	4.70	4.00

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

20/12/2024

CF (Hz)
5.825G

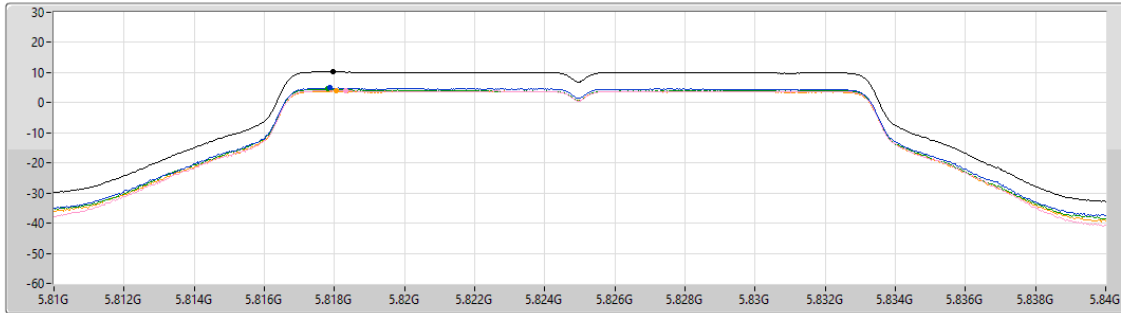
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
19.954

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.30	10.30	4.91	3.98	4.52	3.86

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

5745MHz

20/12/2024

CF (Hz)
5.745G

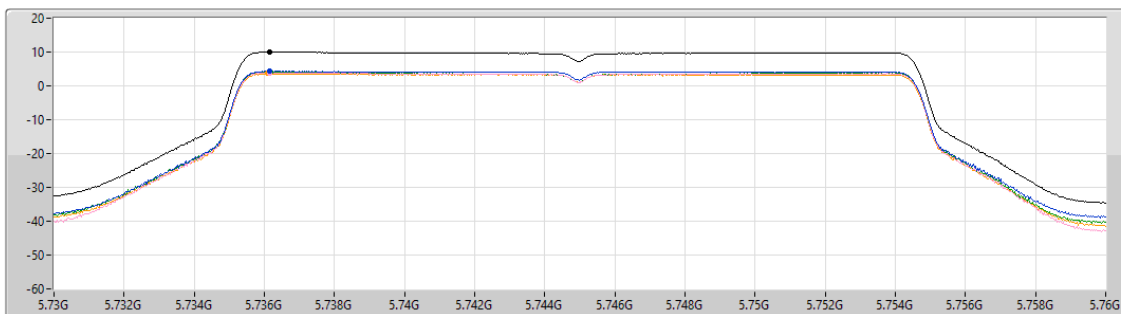
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
54.739

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

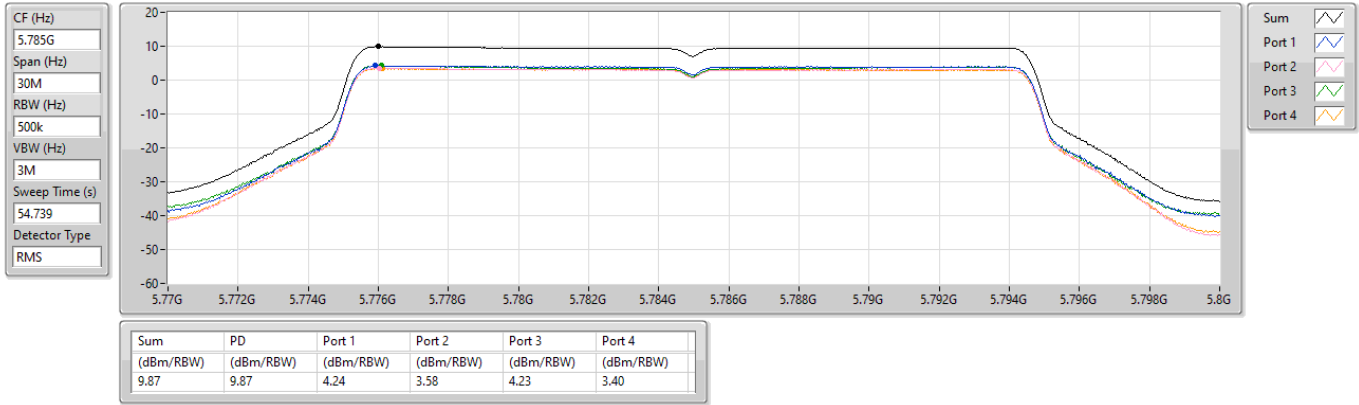
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.99	9.99	4.31	3.87	4.16	3.60

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

5785MHz

20/12/2024

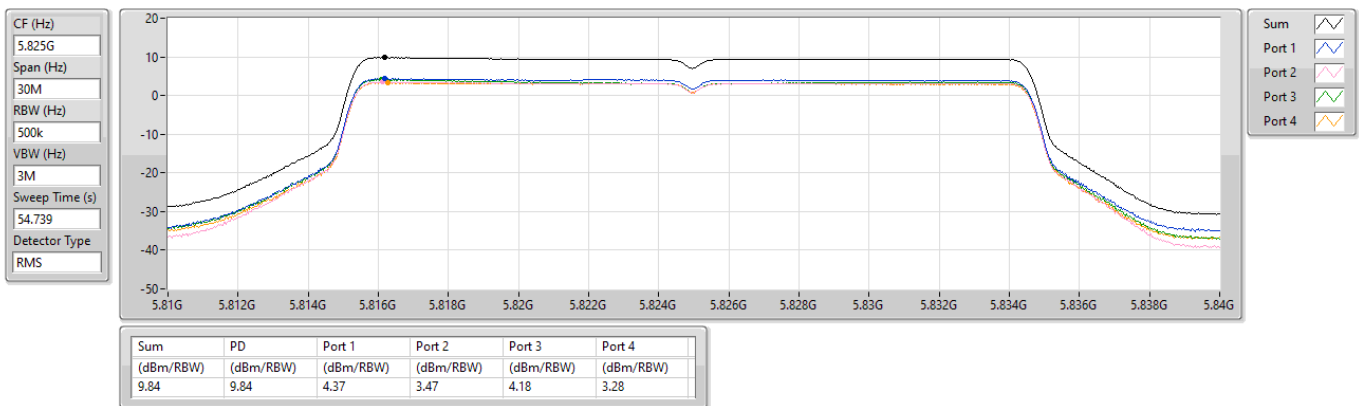


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

5825MHz

20/12/2024

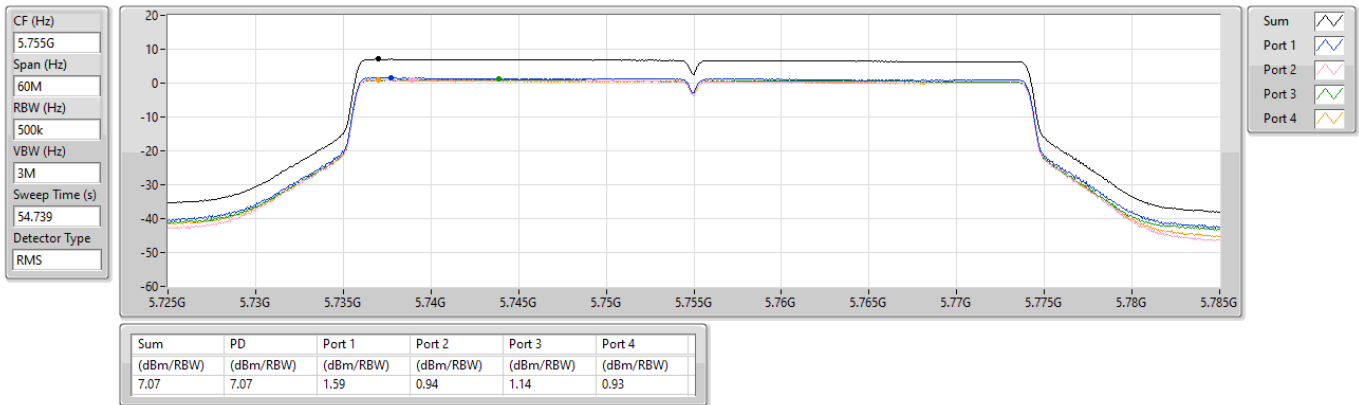


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

5755MHz

20/12/2024

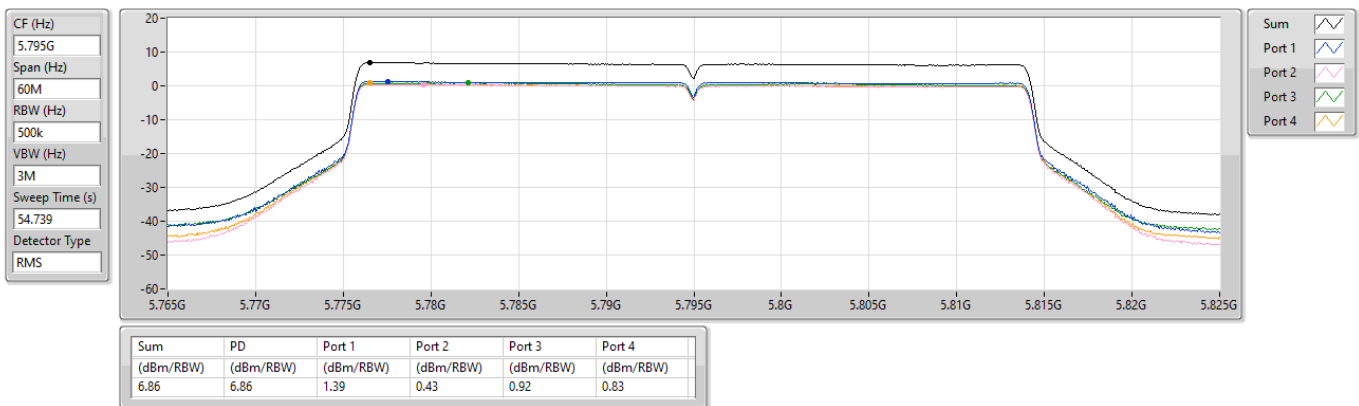


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

5795MHz

20/12/2024

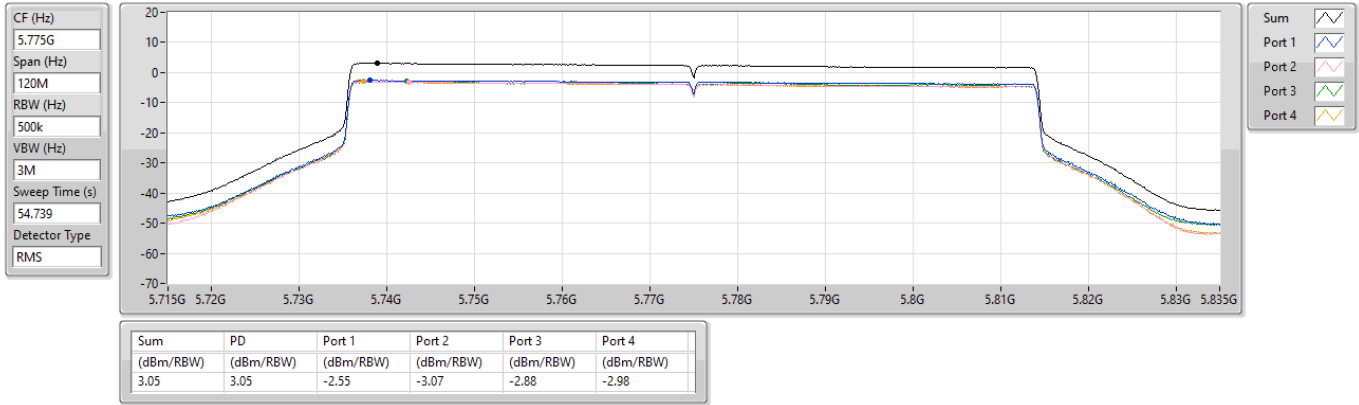


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

PSD

5775MHz

20/12/2024





Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
802.11be EHT80_Nss1,(MCS0)_1TX	-0.73
802.11be EHT80_Nss1,(MCS0)_2TX	1.43
802.11be EHT80_Nss1,(MCS0)_4TX	1.98

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



PSD_R3_Multi-RU
(Parent Device / FCC ID: UDX-600216010)

Appendix D.3

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-0.73				-0.73	25.60
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-1.29				-1.29	25.60
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-1.38	-1.39			1.43	25.60
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-2.77	-2.76			0.10	25.60
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	13.21	-5.19	-5.22	-5.29	-5.68	0.60	22.79
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	13.21	-3.59	-4.04	-4.04	-3.97	1.98	22.79

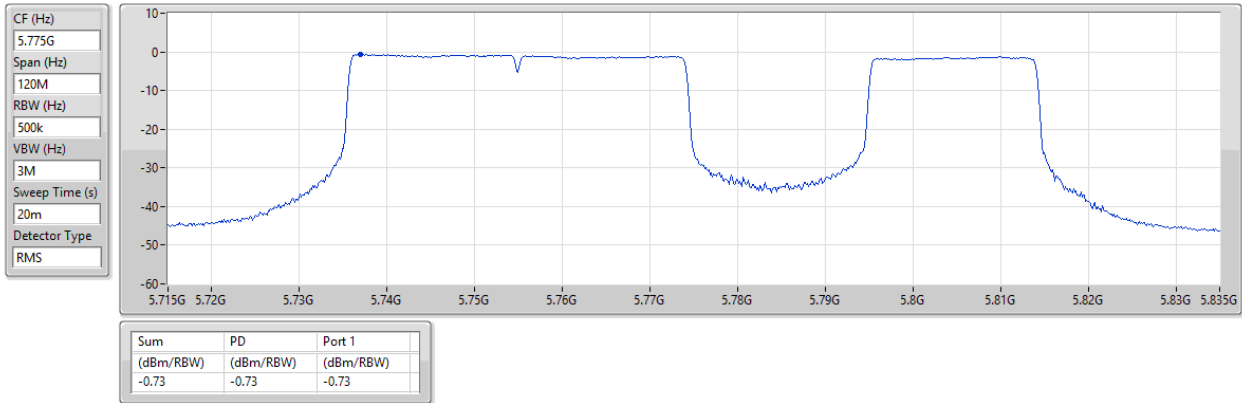
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX

PSD

5775MHz

06/02/2025



5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX

PSD

5775MHz

07/02/2025

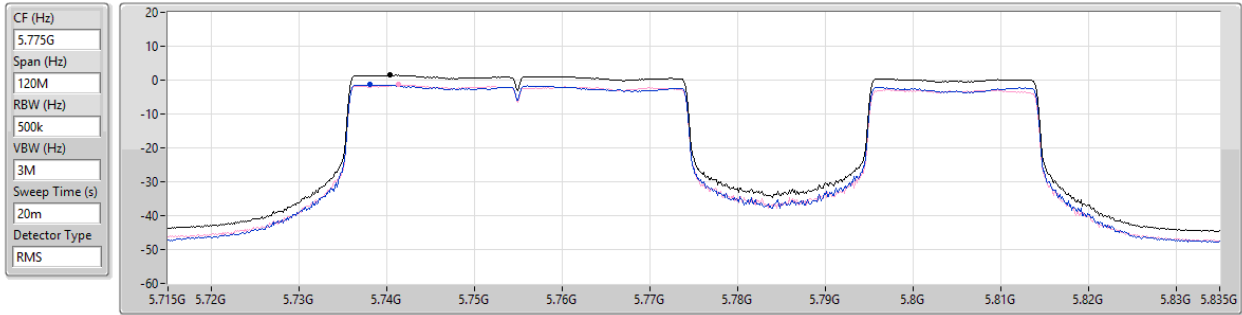


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX

PSD

5775MHz

07/02/2025



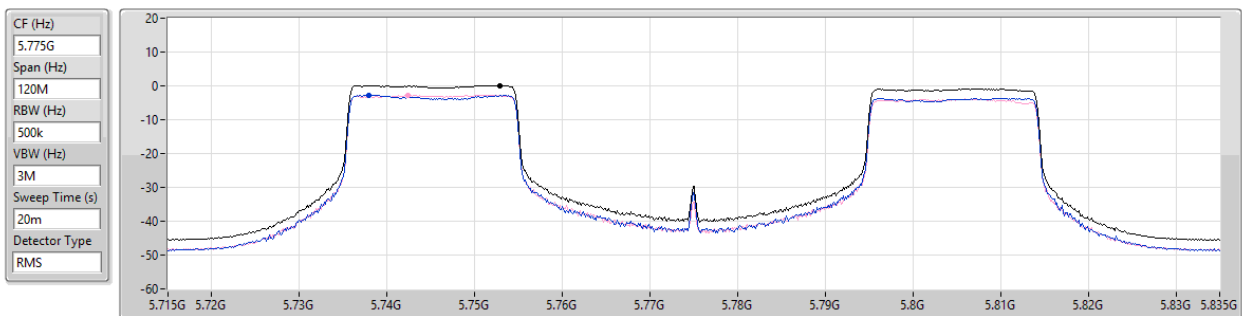
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.43	1.43	-1.38	-1.39

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX

PSD

5775MHz

07/02/2025



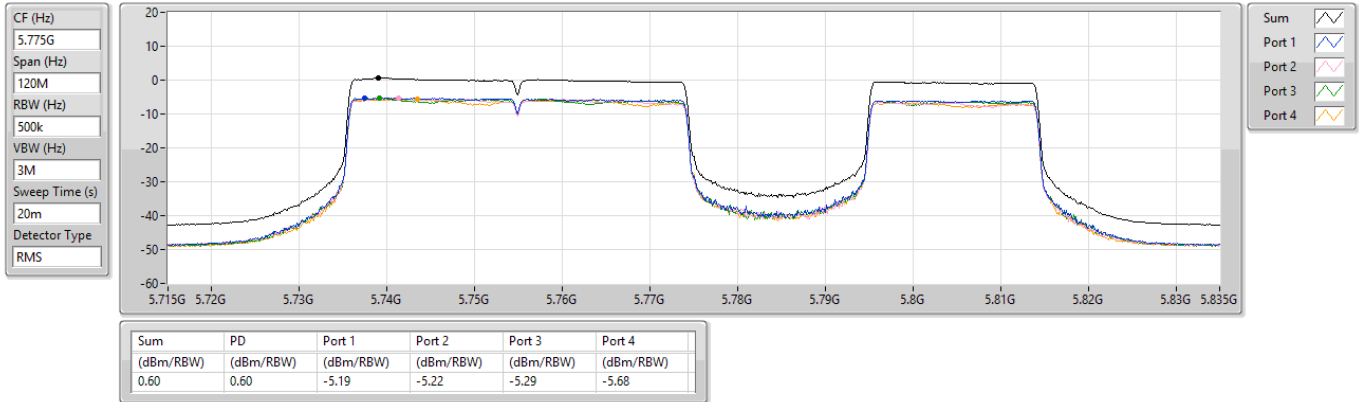
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.10	0.10	-2.77	-2.76

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX

PSD

5775MHz

07/02/2025

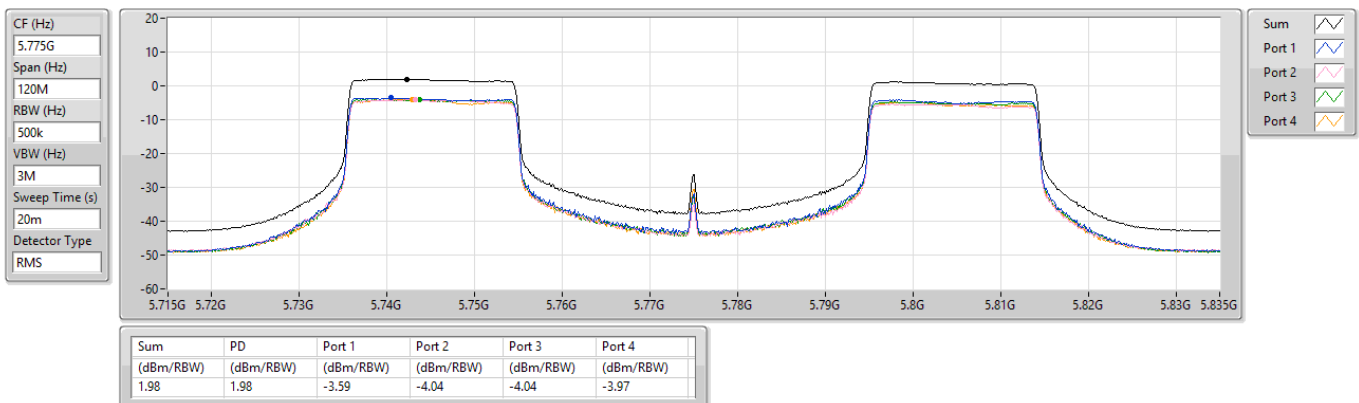


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX

PSD

5775MHz

07/02/2025





PSD_R3_Puncturing
(Parent Device / FCC ID: UDX-600216010)

Appendix D.4

Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
802.11be EHT80_Nss1,(MCS0)_1TX	-1.04
802.11be EHT80_Nss1,(MCS0)_2TX	0.93
802.11be EHT80_Nss1,(MCS0)_4TX	0.35

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



PSD_R3_Puncturing
(Parent Device / FCC ID: UDX-600216010)

Appendix D.4

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-1.04				-1.04	25.60
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX	-	-	-	-	-	-	-	-
5775MHz	Pass	10.40	-2.09	-2.01			0.93	25.60
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	13.21	-5.31	-5.31	-5.75	-5.97	0.35	22.79

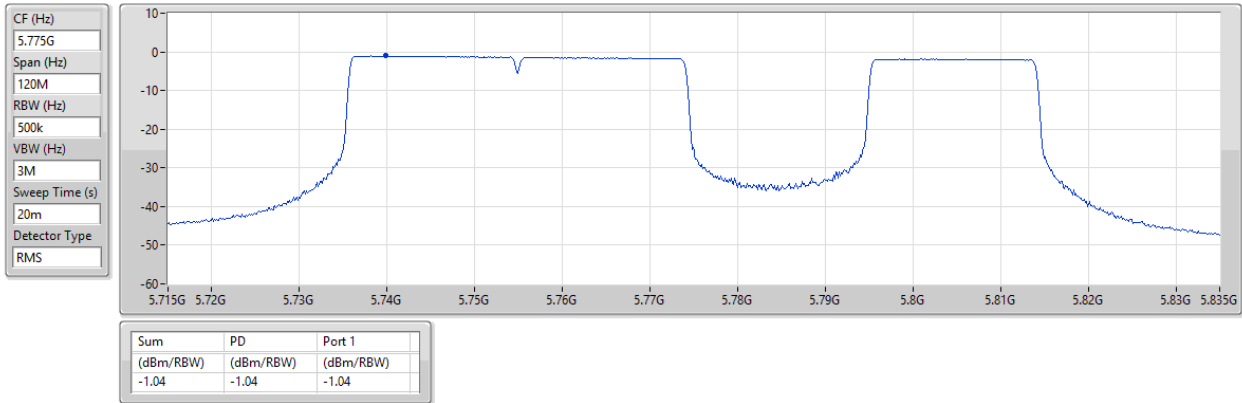
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_1TX

PSD

5775MHz

12/02/2025

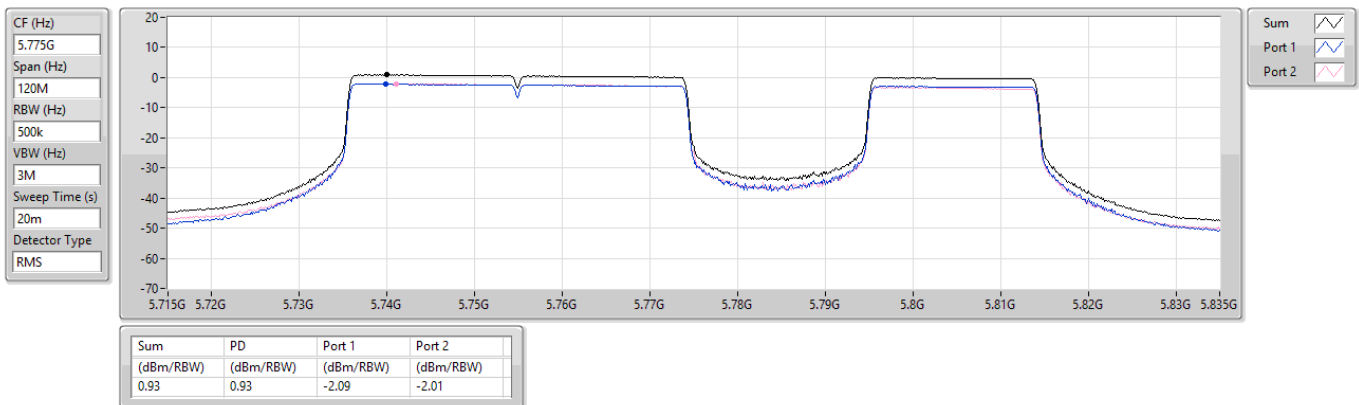


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_2TX

PSD

5775MHz

12/02/2025

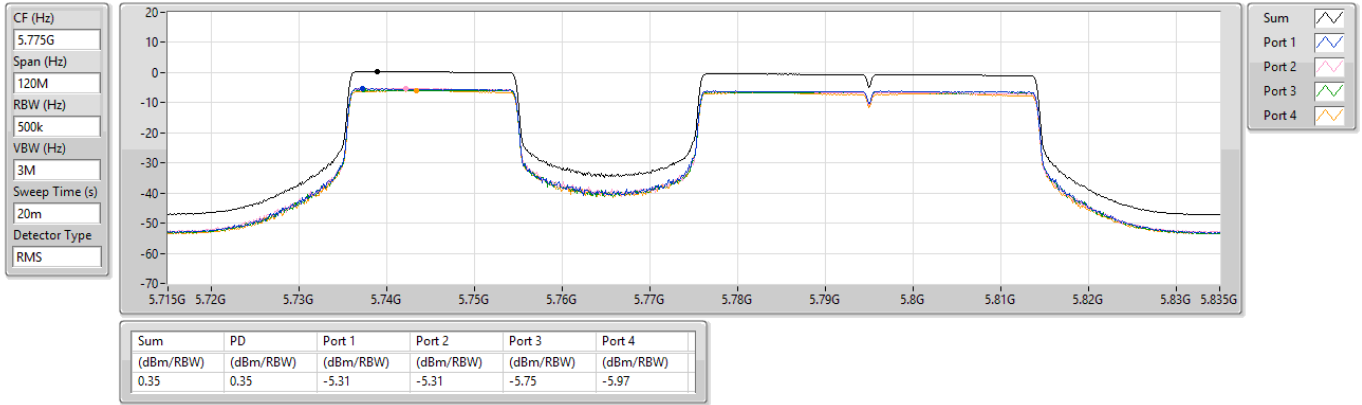


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 2_4TX

PSD

5775MHz

12/02/2025





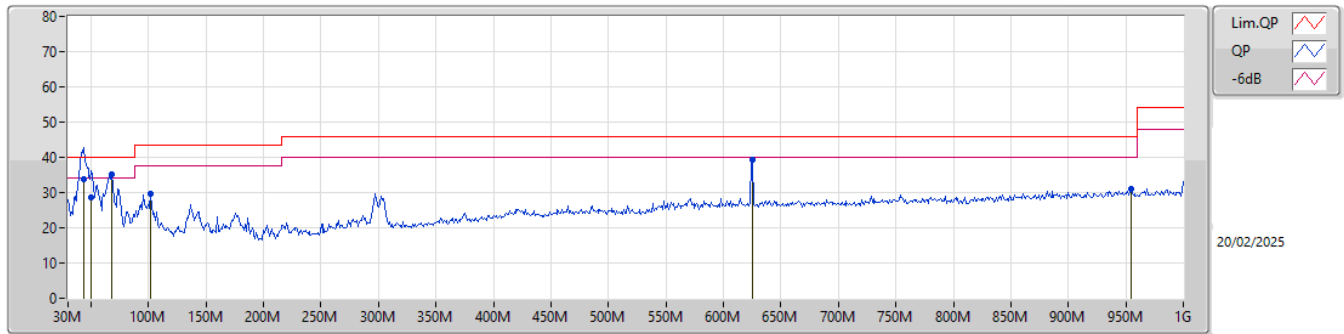
Radiated Emissions below 1GHz
(Parent Device / FCC ID: UDX-600216010)

Appendix E.1

Summary

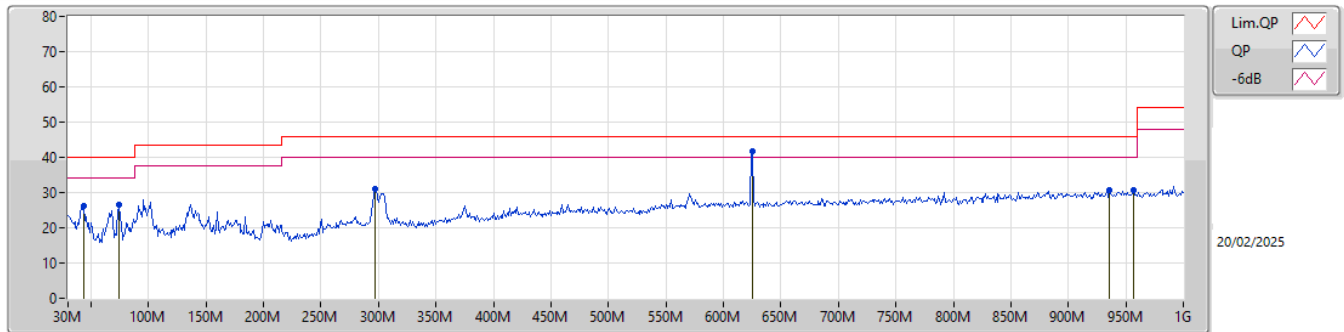
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 13	Pass	PK	625.58M	41.76	46.00	-4.24	Horizontal

Mode 13



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	43.58M	33.73	40.00	-6.27	-13.39	3	Vertical	357	1.00	-	47.12	17.10	1.10	31.59		
QP	50.37M	28.46	40.00	-11.54	-16.22	3	Vertical	353	1.00	-	44.68	14.25	1.16	31.63		
PK	67.83M	35.24	40.00	-4.76	-17.88	3	Vertical	12	1.50	"Worst"	53.12	12.51	1.30	31.69		
PK	101.78M	29.53	43.50	-13.97	-13.16	3	Vertical	186	1.00	-	42.69	17.04	1.54	31.74		
PK	625.58M	39.34	46.00	-6.66	-3.79	3	Vertical	86	1.00	-	43.13	24.64	3.85	32.28		
PK	954.41M	31.13	46.00	-14.87	-0.83	3	Vertical	357	1.50	-	31.96	26.68	4.80	32.31		

Mode 13



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	43.58M	26.31	40.00	-13.69	-13.39	3	Horizontal	212	1.50	-	39.70	17.10	1.10	31.59		
PK	74.62M	26.49	40.00	-13.51	-17.59	3	Horizontal	115	1.50	-	44.08	12.76	1.36	31.71		
PK	296.75M	31.09	46.00	-14.91	-10.14	3	Horizontal	167	1.00	-	41.23	19.08	2.62	31.84		
PK	625.58M	41.76	46.00	-4.24	-3.79	3	Horizontal	131	1.50	"Worst"	45.55	24.64	3.85	32.28		
PK	935.98M	30.54	46.00	-15.46	-1.15	3	Horizontal	281	1.00	-	31.69	26.42	4.75	32.32		
PK	956.35M	30.81	46.00	-15.19	-0.78	3	Horizontal	318	1.50	-	31.59	26.72	4.81	32.31		



CSE Harmonic (1~8GHz)_R1
(Parent Device / FCC ID: UDX-600216010)

Appendix E.2

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	EIRP (dBm)	Psum (dBm)	P1 (dBm)	Limit (dBm)	Margin (dB)	DG (dBi)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1.(6Mbps)_1TX	Pass	1G	8G	AV	-55.67	-61.77	-61.77	-41.20	-14.47	6.10
802.11ax HEW20_Nss1.(MCS0)_1TX	Pass	1G	8G	AV	-55.79	-61.89	-61.89	-41.20	-14.59	6.10
802.11ax HEW40_Nss1.(MCS0)_1TX	Pass	1G	8G	PK	-33.04	-39.14	-39.14	-26.54	-6.50	6.10
802.11ax HEW80_Nss1.(MCS0)_1TX	Pass	1G	8G	PK	-31.75	-37.85	-37.85	-27.00	-4.75	6.10

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



CSE Harmonic (1~8GHz)_R1
(Parent Device / FCC ID: UDX-600216010)

Appendix E.2

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.3645G	6.10	-61.99	-61.99	-55.89	-41.20	-14.69
5745MHz	Pass	1G	8G	PK	5.6445G	6.10	-52.34	-52.34	-46.24	-27.00	-19.24
5745MHz	Pass	1G	8G	PK	5.94113G	6.10	-52.82	-52.82	-46.72	-27.00	-19.72
5785MHz	Pass	1G	8G	AV	5.40388G	6.10	-61.89	-61.89	-55.79	-41.20	-14.59
5785MHz	Pass	1G	8G	PK	5.63225G	6.10	-51.63	-51.63	-45.53	-27.00	-18.53
5785MHz	Pass	1G	8G	PK	5.94288G	6.10	-51.45	-51.45	-45.35	-27.00	-18.35
5825MHz	Pass	1G	8G	AV	5.44238G	6.10	-61.77	-61.77	-55.67	-41.20	-14.47
5825MHz	Pass	1G	8G	PK	5.53775G	6.10	-53.42	-53.42	-47.32	-27.00	-20.32
5825MHz	Pass	1G	8G	PK	5.98663G	6.10	-51.30	-51.30	-45.20	-27.00	-18.20
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.35488G	6.10	-62.11	-62.11	-56.01	-41.20	-14.81
5745MHz	Pass	1G	8G	PK	5.64275G	6.10	-51.01	-51.01	-44.91	-27.00	-17.91
5745MHz	Pass	1G	8G	PK	5.92888G	6.10	-52.73	-52.73	-46.63	-27.00	-19.63
5785MHz	Pass	1G	8G	AV	5.39775G	6.10	-62.32	-62.32	-56.22	-41.20	-15.02
5785MHz	Pass	1G	8G	PK	5.62788G	6.10	-51.95	-51.95	-45.85	-27.00	-18.85
5785MHz	Pass	1G	8G	PK	5.95775G	6.10	-51.42	-51.42	-45.32	-27.00	-18.32
5825MHz	Pass	1G	8G	AV	5.43975G	6.10	-61.89	-61.89	-55.79	-41.20	-14.59
5825MHz	Pass	1G	8G	PK	5.6445G	6.10	-53.70	-53.70	-47.60	-27.00	-20.60
5825MHz	Pass	1G	8G	PK	5.98838G	6.10	-48.40	-48.40	-42.30	-27.00	-15.30
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	1G	8G	AV	5.361G	6.10	-62.55	-62.55	-56.45	-41.20	-15.25
5755MHz	Pass	1G	8G	PK	5.65063G	6.10	-39.14	-39.14	-33.04	-26.54	-6.50
5755MHz	Pass	1G	8G	PK	5.93325G	6.10	-46.60	-46.60	-40.50	-27.00	-13.50
5795MHz	Pass	1G	8G	AV	5.41613G	6.10	-62.69	-62.69	-56.59	-41.20	-15.39
5795MHz	Pass	1G	8G	PK	5.65063G	6.10	-44.20	-44.20	-38.10	-26.54	-11.56
5795MHz	Pass	1G	8G	PK	5.92363G	6.10	-42.80	-42.80	-36.70	-25.98	-10.72
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.36013G	6.10	-62.55	-62.55	-56.45	-41.20	-15.25
5775MHz	Pass	1G	8G	PK	5.64888G	6.10	-37.85	-37.85	-31.75	-27.00	-4.75
5775MHz	Pass	1G	8G	PK	5.92713G	6.10	-42.42	-42.42	-36.32	-27.00	-9.32

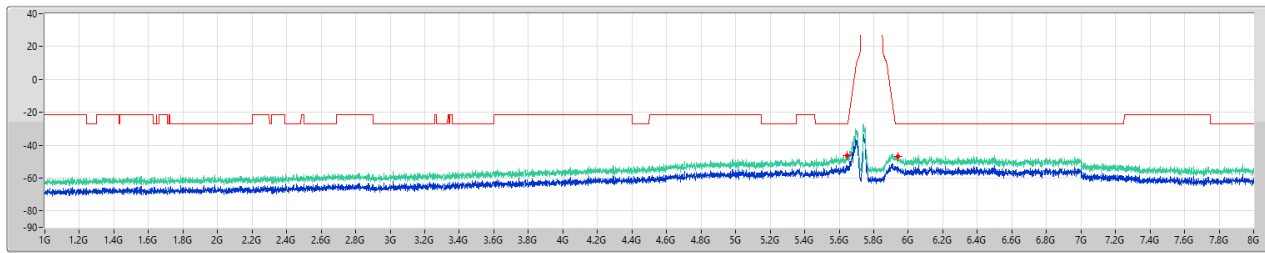
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [PK]

5745MHz

25/12/2024



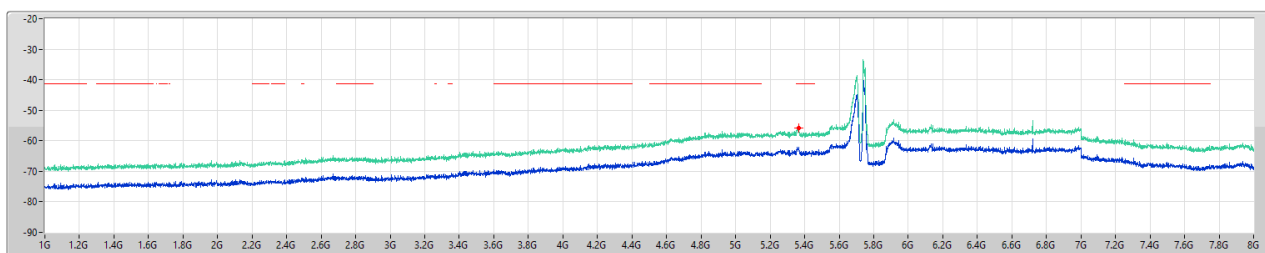
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.6445G	-46.24	-27.00	-19.24	6.10	0.00	-52.34	-52.34
1G	8G	1M	PK	5.94113G	-46.72	-27.00	-19.72	6.10	0.00	-52.82	-52.82

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [AV]

5745MHz

25/12/2024



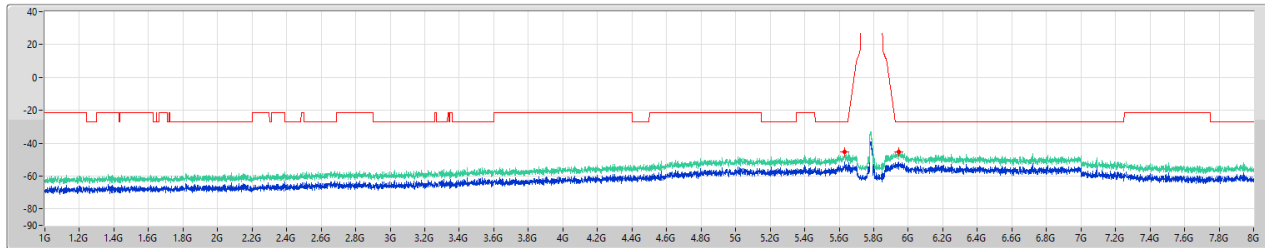
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.3645G	-55.89	-41.20	-14.69	6.10	0.00	-61.99	-61.99

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [PK]

5785MHz

25/12/2024



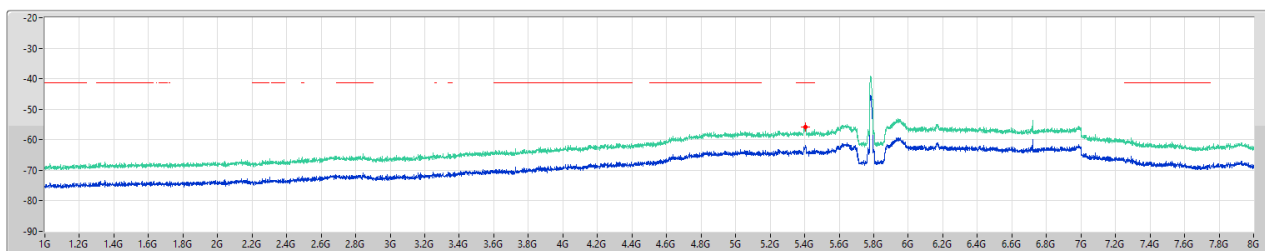
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.63225G	-45.53	-27.00	-18.53	6.10	0.00	-51.63	-51.63
1G	8G	1M	PK	5.94288G	-45.35	-27.00	-18.35	6.10	0.00	-51.45	-51.45

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [AV]

5785MHz

25/12/2024



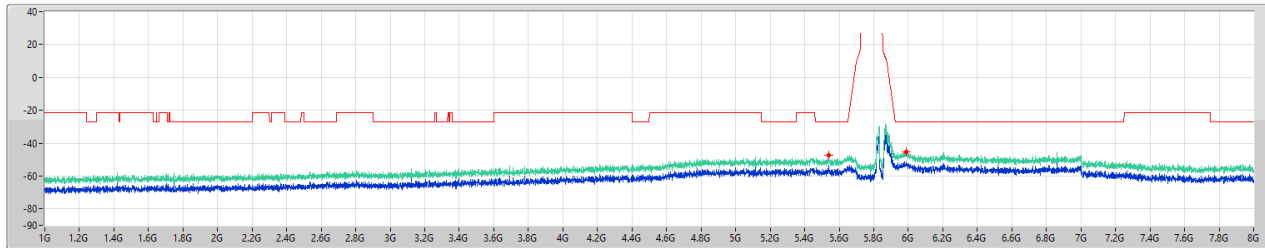
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.40388G	-55.79	-41.20	-14.59	6.10	0.00	-61.89	-61.89

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [PK]

5825MHz

25/12/2024



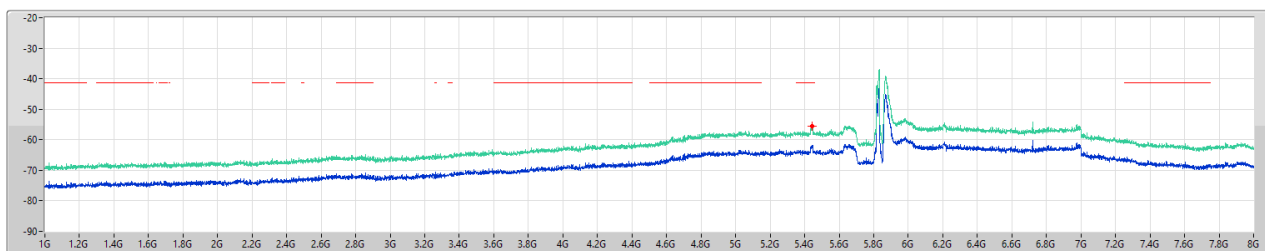
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.53775G	-47.32	-27.00	-20.32	6.10	0.00	-53.42	-53.42
1G	8G	1M	PK	5.96663G	-45.20	-27.00	-18.20	6.10	0.00	-51.30	-51.30

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [AV]

5825MHz

25/12/2024



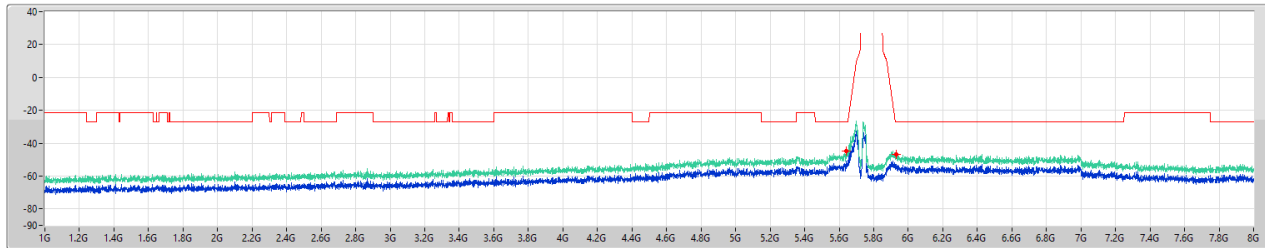
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.44238G	-55.67	-41.20	-14.47	6.10	0.00	-61.77	-61.77

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

CSE Other [PK]

5745MHz

25/12/2024



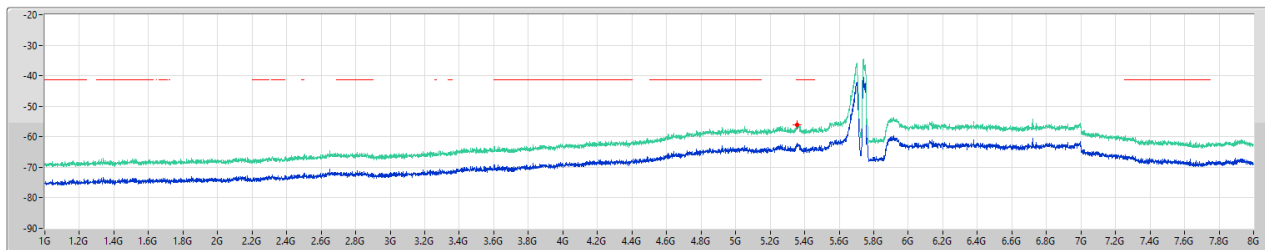
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.64275G	-44.91	-27.00	-17.91	6.10	0.00	-51.01	-51.01
1G	8G	1M	PK	5.92888G	-46.63	-27.00	-19.63	6.10	0.00	-52.73	-52.73

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

CSE Other [AV]

5745MHz

25/12/2024



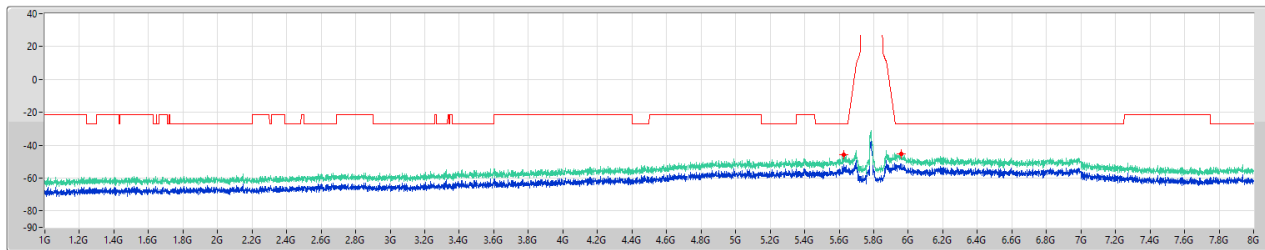
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.35488G	-56.01	-41.20	-14.81	6.10	0.00	-62.11	-62.11

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

CSE Other [PK]

5785MHz

25/12/2024



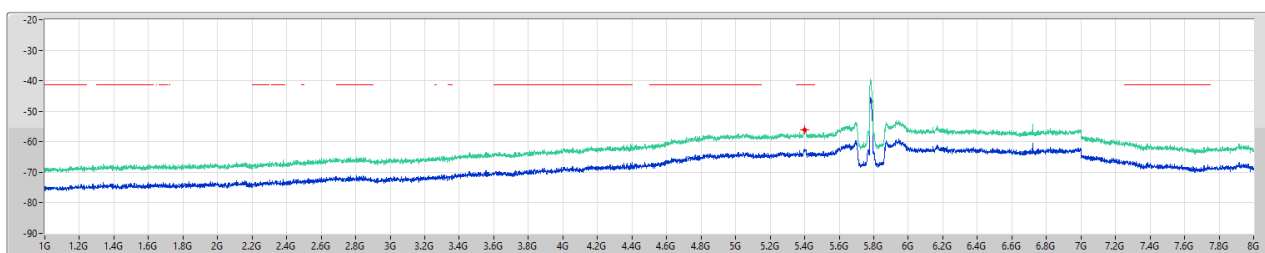
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.62788G	-45.85	-27.00	-18.85	6.10	0.00	-51.95	-51.95
1G	8G	1M	PK	5.95775G	-45.32	-27.00	-18.32	6.10	0.00	-51.42	-51.42

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

CSE Other [AV]

5785MHz

25/12/2024



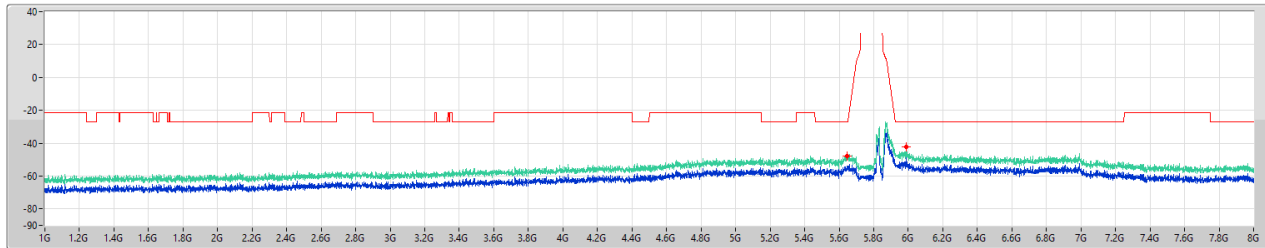
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.9775G	-56.22	-41.20	-15.02	6.10	0.00	-62.32	-62.32

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

CSE Other [PK]

5825MHz

25/12/2024



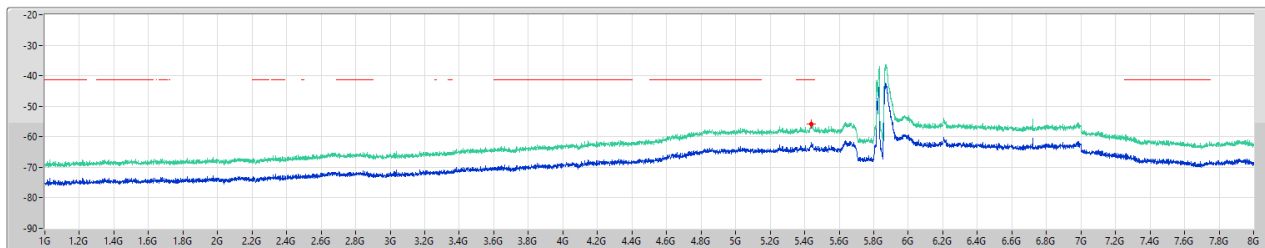
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.6445G	-47.60	-27.00	-20.60	6.10	0.00	-53.70	-53.70
1G	8G	1M	PK	5.98838G	-42.30	-27.00	-15.30	6.10	0.00	-48.40	-48.40

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

CSE Other [AV]

5825MHz

25/12/2024



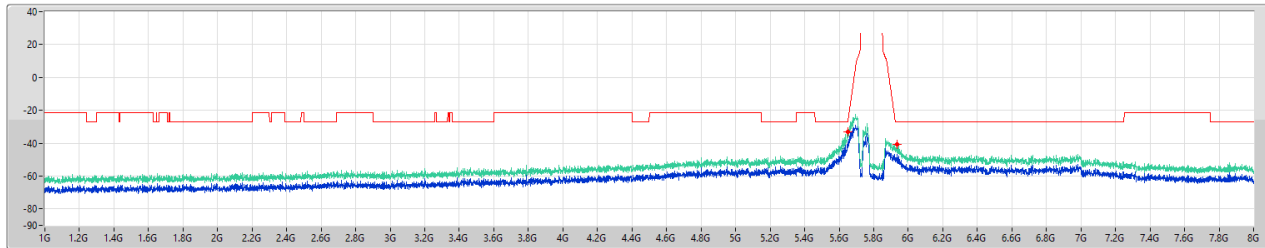
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.43975G	-55.79	-41.20	-14.59	6.10	0.00	-61.89	-61.89

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

CSE Other [PK]

5755MHz

25/12/2024



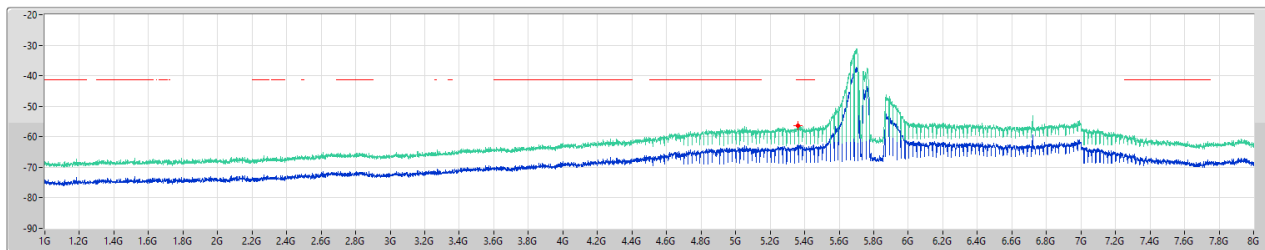
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.65063G	-33.04	-26.54	-6.50	6.10	0.00	-39.14	-39.14
1G	8G	1M	PK	5.93325G	-40.50	-27.00	-13.50	6.10	0.00	-46.60	-46.60

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

CSE Other [AV]

5755MHz

25/12/2024



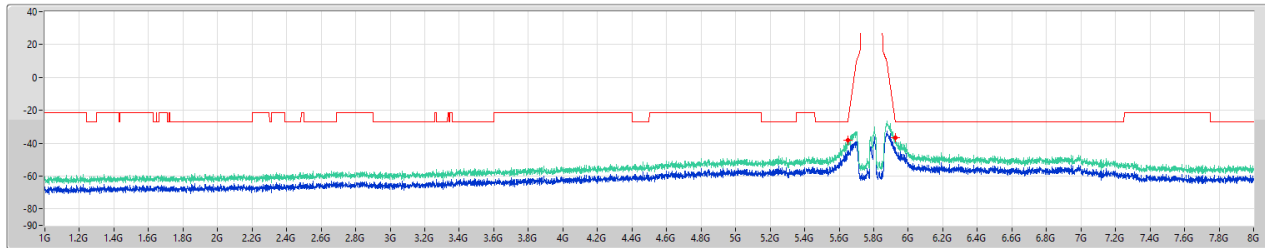
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.361G	-56.45	-41.20	-15.25	6.10	0.00	-62.55	-62.55

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

CSE Other [PK]

5795MHz

25/12/2024



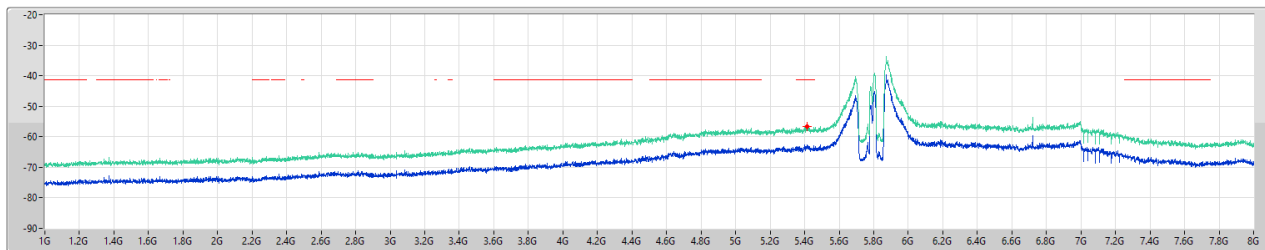
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.65063G	-38.10	-26.54	-11.56	6.10	0.00	-44.20	-44.20
1G	8G	1M	PK	5.92363G	-36.70	-25.98	-10.72	6.10	0.00	-42.80	-42.80

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

CSE Other [AV]

5795MHz

25/12/2024



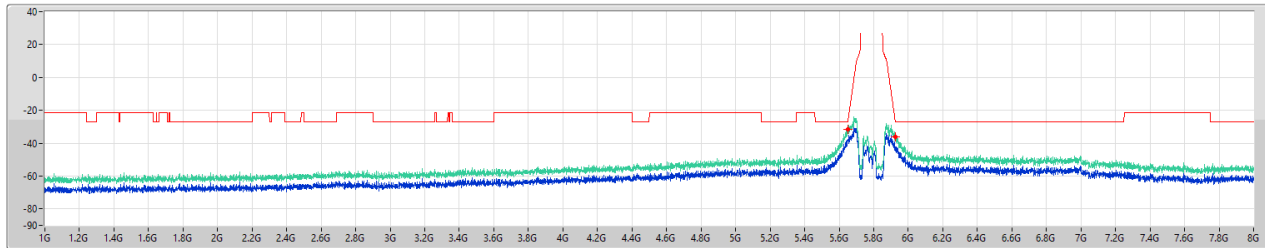
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.41613G	-56.59	-41.20	-15.39	6.10	0.00	-62.69	-62.69

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

CSE Other [PK]

5775MHz

25/12/2024



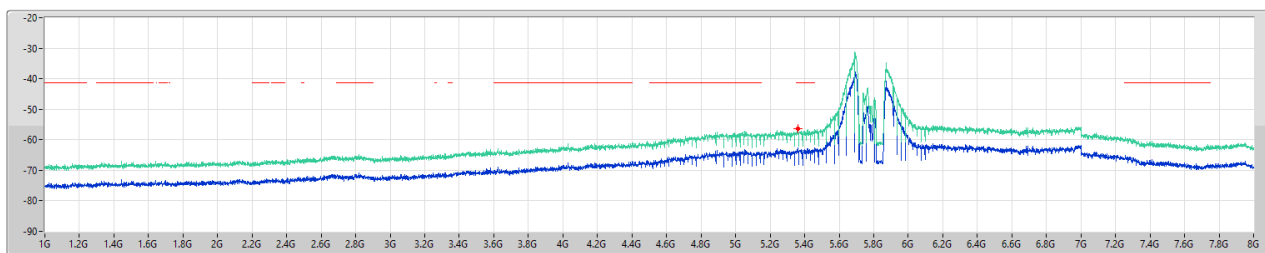
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.64888G	-31.75	-27.00	-4.75	6.10	0.00	-37.85	-37.85
1G	8G	1M	PK	5.92713G	-36.32	-27.00	-9.32	6.10	0.00	-42.42	-42.42

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

CSE Other [AV]

5775MHz

25/12/2024



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.36013G	-56.45	-41.20	-15.25	6.10	0.00	-62.55	-62.55



CSE Harmonic (1~8GHz)_R3_Full RU
(Parent Device / FCC ID: UDX-600216010)

Appendix E.3

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	DG (dBi)	Psum (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	1G	8G	AV	10.40	-58.68	-58.68				-48.28	-41.2	-7.08
802.11a_Nss1,(6Mbps)_2TX	Pass	1G	8G	AV	10.40	-54.78	-59.48	-56.57			-44.38	-41.2	-3.18
802.11a_Nss1,(6Mbps)_4TX	Pass	1G	8G	AV	10.40	-51.61	-61.54	-59.01	-55.53	-56.67	-41.21	-41.2	-0.01
802.11be EHT20_Nss1,(MCS0)_1TX	Pass	1G	8G	AV	10.40	-58.93	-58.93				-48.53	-41.2	-7.33
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	1G	8G	AV	10.40	-54.73	-58.61	-57.01			-44.33	-41.2	-3.13
802.11be EHT20_Nss1,(MCS0)_4TX	Pass	1G	8G	AV	10.40	-52.24	-61	-59.54	-56.82	-57.02	-41.84	-41.2	-0.64
802.11be EHT40_Nss1,(MCS0)_1TX	Pass	1G	8G	PK	10.40	-42.79	-42.79				-32.39	-27	-5.39
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	1G	8G	AV	10.40	-52.37	-57.43	-53.99			-41.97	-41.2	-0.77
802.11be EHT40_Nss1,(MCS0)_4TX	Pass	1G	8G	AV	10.40	-51.62	-59.6	-57.41	-57.21	-56.83	-41.22	-41.2	-0.02
802.11be EHT80_Nss1,(MCS0)_1TX	Pass	1G	8G	PK	10.40	-41.81	-41.81				-31.41	-27	-4.41
802.11be EHT80_Nss1,(MCS0)_2TX	Pass	1G	8G	AV	10.40	-52.78	-56.86	-54.93			-42.38	-41.2	-1.18
802.11be EHT80_Nss1,(MCS0)_4TX	Pass	1G	8G	AV	10.40	-52.29	-59.99	-59.06	-58.31	-56.62	-41.89	-41.2	-0.69

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



CSE Harmonic (1~8GHz) R3_Full RU
(Parent Device / FCC ID: UDX-600216010)

Appendix E.3

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.43888G	10.40	-58.68				-58.68	-48.28	-41.2	-7.08
5745MHz	Pass	1G	8G	PK	5.627G	10.40	-47.37				-47.37	-36.97	-27	-9.97
5745MHz	Pass	1G	8G	PK	5.98575G	10.40	-69.68				-69.68	-59.28	-27	-32.28
5785MHz	Pass	1G	8G	AV	5.45988G	10.40	-59.41				-59.41	-49.01	-41.2	-7.81
5785MHz	Pass	1G	8G	PK	5.64013G	10.40	-48.86				-48.86	-38.46	-27	-11.46
5785MHz	Pass	1G	8G	PK	5.97788G	10.40	-70.86				-70.86	-60.46	-27	-33.46
5825MHz	Pass	1G	8G	AV	5.459G	10.40	-61.59				-61.59	-51.19	-41.2	-9.99
5825MHz	Pass	1G	8G	PK	5.5395G	10.40	-48.54				-48.54	-38.14	-27	-11.14
5825MHz	Pass	1G	8G	PK	5.93238G	10.40	-70.78				-70.78	-60.38	-27	-33.38
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.44325G	10.40	-58.93				-58.93	-48.53	-41.2	-7.33
5745MHz	Pass	1G	8G	PK	5.62175G	10.40	-46.82				-46.82	-36.42	-27	-9.42
5745MHz	Pass	1G	8G	PK	5.98225G	10.40	-70.96				-70.96	-60.56	-27	-33.56
5785MHz	Pass	1G	8G	AV	5.45288G	10.40	-59.5				-59.5	-49.10	-41.2	-7.90
5785MHz	Pass	1G	8G	PK	5.49488G	10.40	-48.5				-48.5	-38.10	-27	-11.10
5785MHz	Pass	1G	8G	PK	5.9525G	10.40	-71.04				-71.04	-60.64	-27	-33.64
5825MHz	Pass	1G	8G	AV	5.4555G	10.40	-61.6				-61.6	-51.20	-41.2	-10.00
5825MHz	Pass	1G	8G	PK	5.55438G	10.40	-48.77				-48.77	-38.37	-27	-11.37
5825MHz	Pass	1G	8G	PK	5.93588G	10.40	-70.74				-70.74	-60.34	-27	-33.34
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	1G	8G	AV	5.45463G	10.40	-57.78				-57.78	-47.38	-41.2	-6.18
5755MHz	Pass	1G	8G	PK	5.64713G	10.40	-44				-44	-33.60	-27	-6.60
5755MHz	Pass	1G	8G	PK	5.98925G	10.40	-71.5				-71.5	-61.10	-27	-34.10
5795MHz	Pass	1G	8G	AV	5.45638G	10.40	-57.99				-57.99	-47.59	-41.2	-6.39
5795MHz	Pass	1G	8G	PK	5.63925G	10.40	-42.79				-42.79	-32.39	-27	-5.39
5795MHz	Pass	1G	8G	PK	5.886G	10.40	-39.68				-39.68	-29.28	1.86	-31.14
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.45988G	10.40	-57.5				-57.5	-47.10	-41.2	-5.90
5775MHz	Pass	1G	8G	PK	5.64888G	10.40	-41.81				-41.81	-31.41	-27	-4.41
5775MHz	Pass	1G	8G	PK	5.93763G	10.40	-70.48				-70.48	-60.08	-27	-33.08
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.445G	10.40	-59.48	-56.57			-54.78	-44.38	-41.2	-3.18
5745MHz	Pass	1G	8G	PK	5.63225G	10.40	-48.09	-48.25			-45.16	-34.76	-27	-7.76
5745MHz	Pass	1G	8G	PK	5.97G	10.40	-69.93	-71.19			-67.5	-57.10	-27	-30.10
5785MHz	Pass	1G	8G	AV	5.45813G	10.40	-59.89	-58.79			-56.29	-45.89	-41.2	-4.69
5785MHz	Pass	1G	8G	PK	5.49925G	10.40	-51.54	-46.31			-45.17	-34.77	-27	-7.77
5785MHz	Pass	1G	8G	PK	5.94025G	10.40	-72.78	-70.47			-68.46	-58.06	-27	-31.06
5825MHz	Pass	1G	8G	AV	5.45375G	10.40	-61.79	-60.39			-58.02	-47.62	-41.2	-6.42
5825MHz	Pass	1G	8G	PK	5.52813G	10.40	-50.24	-45.71			-44.4	-34.00	-27	-7.00
5825MHz	Pass	1G	8G	PK	5.98488G	10.40	-72.49	-69.73			-67.88	-57.48	-27	-30.48
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.44675G	10.40	-58.61	-57.01			-54.73	-44.33	-41.2	-3.13
5745MHz	Pass	1G	8G	PK	5.62613G	10.40	-49.6	-47.66			-45.51	-35.11	-27	-8.11
5745MHz	Pass	1G	8G	PK	5.95338G	10.40	-70.56	-70.64			-67.59	-57.19	-27	-30.19
5785MHz	Pass	1G	8G	AV	5.459G	10.40	-59.56	-58.92			-56.22	-45.82	-41.2	-4.62
5785MHz	Pass	1G	8G	PK	5.47825G	10.40	-49.69	-44.74			-43.53	-33.13	-27	-6.13
5785MHz	Pass	1G	8G	PK	5.93588G	10.40	-70.17	-72.49			-68.17	-57.77	-27	-30.77
5825MHz	Pass	1G	8G	AV	5.45813G	10.40	-62.11	-60.36			-58.14	-47.74	-41.2	-6.54
5825MHz	Pass	1G	8G	PK	5.52113G	10.40	-49.67	-46.58			-44.85	-34.45	-27	-7.45
5825MHz	Pass	1G	8G	PK	5.9385G	10.40	-71.36	-70.63			-67.97	-57.57	-27	-30.57
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	1G	8G	AV	5.45463G	10.40	-57.43	-53.99			-52.37	-41.97	-41.2	-0.77
5755MHz	Pass	1G	8G	PK	5.64975G	10.40	-48.53	-45.81			-43.95	-33.55	-27	-6.55
5755MHz	Pass	1G	8G	PK	5.98838G	10.40	-71.23	-70.38			-67.77	-57.37	-27	-30.37
5795MHz	Pass	1G	8G	AV	5.45988G	10.40	-64.26	-62.7			-60.4	-50.00	-41.2	-8.80
5795MHz	Pass	1G	8G	PK	5.4975G	10.40	-54.26	-50.78			-49.17	-38.77	-27	-11.77
5795MHz	Pass	1G	8G	PK	5.98663G	10.40	-68.95	-73.28			-67.59	-57.19	-27	-30.19
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.45638G	10.40	-56.86	-54.93			-52.78	-42.38	-41.2	-1.18
5775MHz	Pass	1G	8G	PK	5.65063G	10.40	-43.25	-41.23			-39.11	-28.71	-26.54	-2.17
5775MHz	Pass	1G	8G	PK	5.96475G	10.40	-69.89	-71.55			-67.63	-57.23	-27	-30.23
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.445G	10.40	-61.54	-59.01	-55.53	-56.67	-51.61	-41.21	-41.2	-0.01
5745MHz	Pass	1G	8G	PK	5.62788G	10.40	-49	-47.82	-51.6	-54.32	-44.01	-33.61	-27	-6.61
5745MHz	Pass	1G	8G	PK	5.98925G	10.40	-72.69	-71	-70.72	-72.52	-65.62	-55.22	-27	-28.22
5785MHz	Pass	1G	8G	AV	5.45988G	10.40	-62.76	-61.29	-63.17	-62.99	-56.46	-46.06	-41.2	-4.86
5785MHz	Pass	1G	8G	PK	5.4835G	10.40	-51.51	-49.66	-45.55	-48.36	-42.19	-31.79	-27	-4.79
5785MHz	Pass	1G	8G	PK	5.9875G	10.40	-74.08	-69.32	-73.16	-72.68	-65.88	-55.48	-27	-28.48



CSE Harmonic (1~8GHz)_R3_Full RU
(Parent Device / FCC ID: UDX-600216010)

Appendix E.3

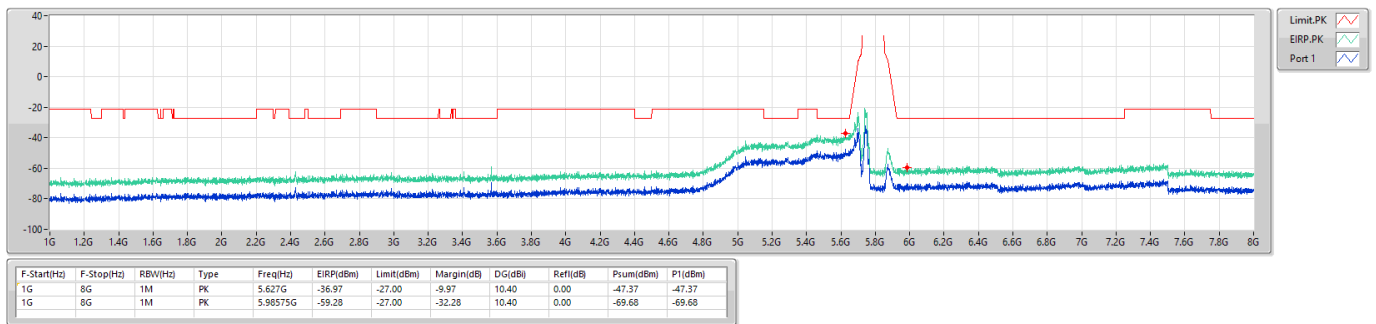
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5825MHz	Pass	1G	8G	AV	5.35663G	10.40	-65.34	-64.19	-60.16	-56.45	-54.09	-43.69	-41.2	-2.49
5825MHz	Pass	1G	8G	PK	5.51938G	10.40	-52.06	-50.35	-45.71	-46.09	-41.75	-31.35	-27	-4.35
5825MHz	Pass	1G	8G	PK	5.96213G	10.40	-68.67	-72.89	-72.86	-73.58	-65.48	-55.08	-27	-28.08
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	1G	8G	AV	5.44588G	10.40	-61	-59.54	-56.82	-57.02	-52.24	-41.84	-41.2	-0.64
5745MHz	Pass	1G	8G	PK	5.62438G	10.40	-47.82	-49.34	-53.01	-53.36	-44.23	-33.83	-27	-6.83
5745MHz	Pass	1G	8G	PK	5.97175G	10.40	-72.17	-72.2	-71.81	-72.37	-66.11	-55.71	-27	-28.71
5785MHz	Pass	1G	8G	AV	5.459G	10.40	-61.35	-60.7	-63.66	-64.33	-56.23	-45.83	-41.2	-4.63
5785MHz	Pass	1G	8G	PK	5.47125G	10.40	-53.98	-49.59	-44.22	-48.86	-41.82	-31.42	-27	-4.42
5785MHz	Pass	1G	8G	PK	5.98925G	10.40	-70.35	-72.29	-72.34	-73.48	-65.94	-55.54	-27	-28.54
5825MHz	Pass	1G	8G	AV	5.3575G	10.40	-65.13	-63.96	-60.99	-56.98	-54.55	-44.15	-41.2	-2.95
5825MHz	Pass	1G	8G	PK	5.51763G	10.40	-50.69	-49.94	-44.81	-48.08	-41.72	-31.32	-27	-4.32
5825MHz	Pass	1G	8G	PK	5.942G	10.40	-73.91	-69.36	-72.25	-72.1	-65.56	-55.16	-27	-28.16
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	1G	8G	AV	5.45813G	10.40	-59.6	-57.41	-57.21	-56.83	-51.62	-41.22	-41.2	-0.02
5755MHz	Pass	1G	8G	PK	5.4625G	10.40	-51.87	-47.68	-50.14	-48.6	-43.27	-32.87	-27	-5.87
5755MHz	Pass	1G	8G	PK	5.96038G	10.40	-73.07	-72.37	-70.22	-71.31	-65.59	-55.19	-27	-28.19
5795MHz	Pass	1G	8G	AV	5.459G	10.40	-60.74	-60.19	-61.82	-62.77	-55.25	-44.85	-41.2	-3.65
5795MHz	Pass	1G	8G	PK	5.48525G	10.40	-51.52	-49.45	-48.45	-44.83	-41.83	-31.43	-27	-4.43
5795MHz	Pass	1G	8G	PK	5.93675G	10.40	-70.83	-70.53	-72.17	-72.65	-65.43	-55.03	-27	-28.03
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.43888G	10.40	-59.99	-59.06	-58.31	-56.62	-52.29	-41.89	-41.2	-0.69
5775MHz	Pass	1G	8G	PK	5.47388G	10.40	-50.13	-48.78	-50.16	-45.54	-42.18	-31.78	-27	-4.78
5775MHz	Pass	1G	8G	PK	5.97263G	10.40	-71.58	-68.81	-69.25	-69.35	-63.6	-53.20	-27	-26.20

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [PK]

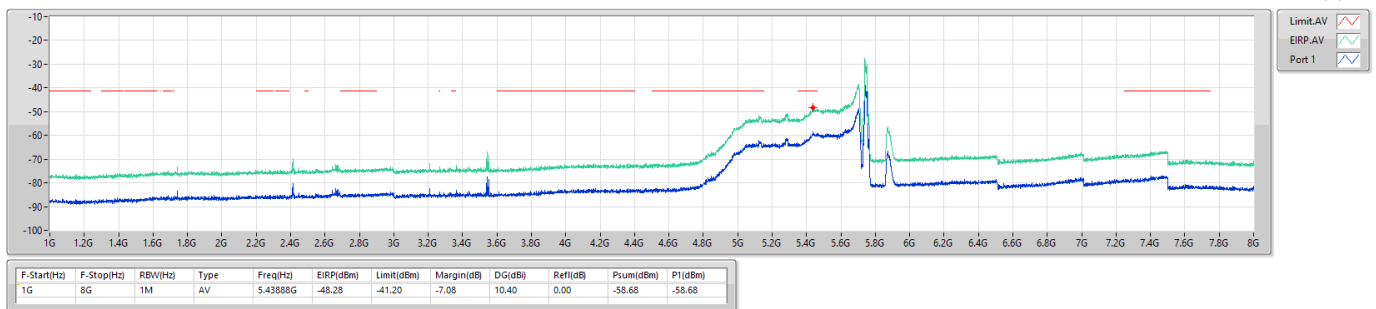
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [AV]

5745MHz

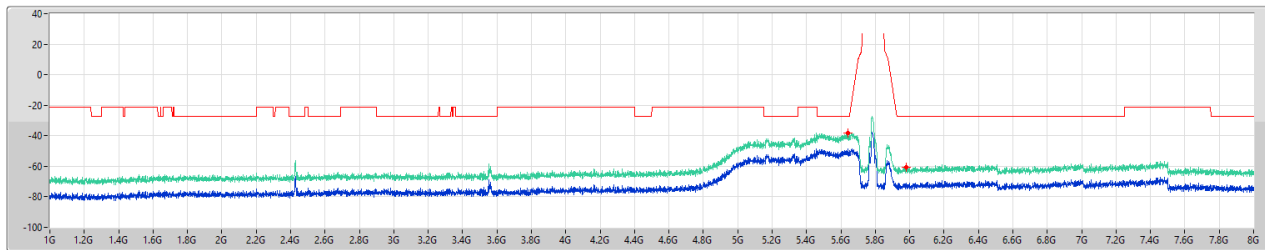


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [PK]

5785MHz

23/12/2024



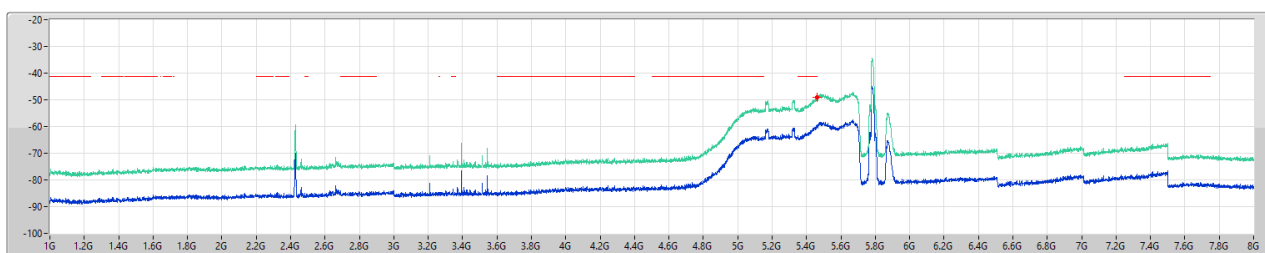
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.64013G	-38.46	-27.00	-11.46	10.40	0.00	-48.86	-48.86
1G	8G	1M	PK	5.97788G	-60.46	-27.00	-33.46	10.40	0.00	-70.86	-70.86

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [AV]

5785MHz

23/12/2024



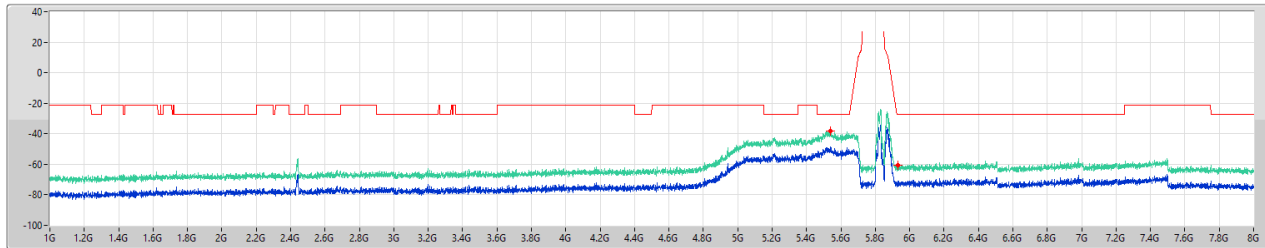
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.45988G	-49.01	-41.20	-7.81	10.40	0.00	-59.41	-59.41

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [PK]

5825MHz

23/12/2024



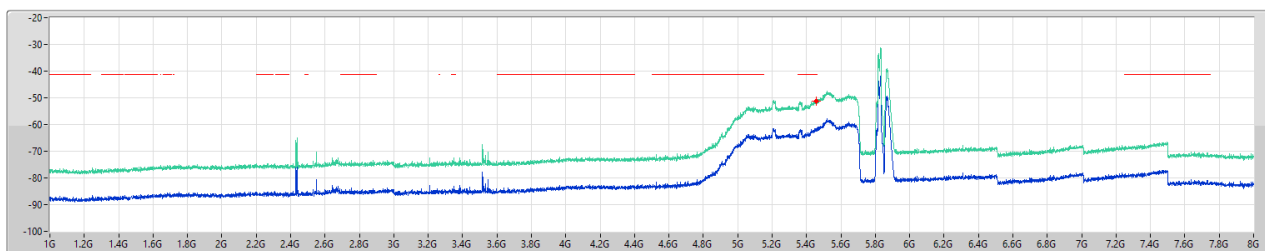
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.5395G	-38.14	-27.00	-11.14	10.40	0.00	-48.54	-48.54
1G	8G	1M	PK	5.93238G	-60.38	-27.00	-33.38	10.40	0.00	-70.78	-70.78

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE Other [AV]

5825MHz

23/12/2024



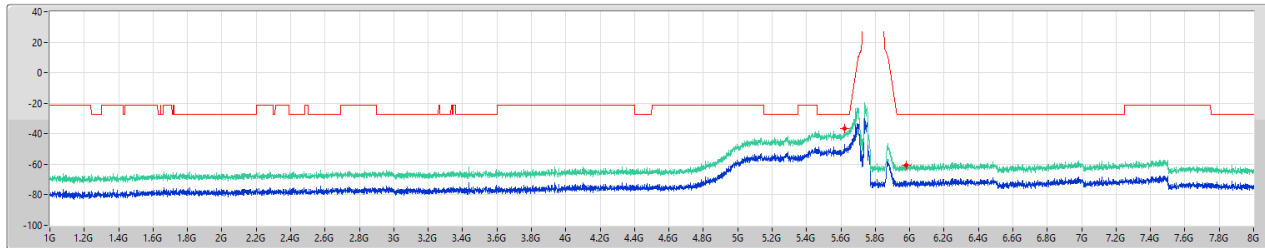
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1G	8G	1M	AV	5.459G	-51.19	-41.20	-9.99	10.40	0.00	-61.59	-61.59

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

CSE Other [PK]

5745MHz

23/12/2024



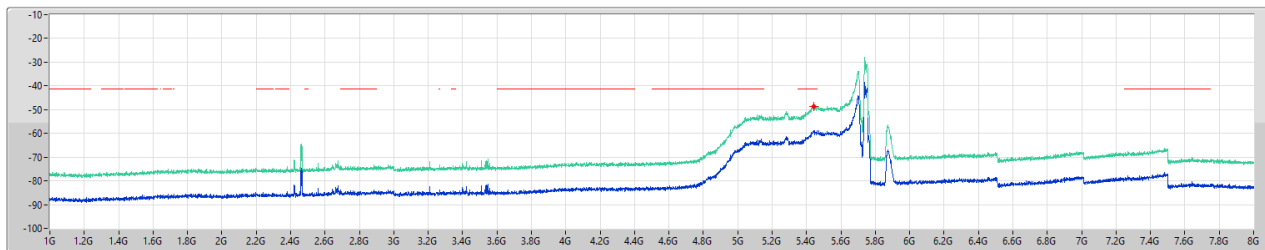
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.62175G	-36.42	-27.00	-9.42	10.40	0.00	-46.82	-46.82
1G	8G	1M	PK	5.98225G	-60.56	-27.00	-33.56	10.40	0.00	-70.96	-70.96

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

CSE Other [AV]

5745MHz

23/12/2024



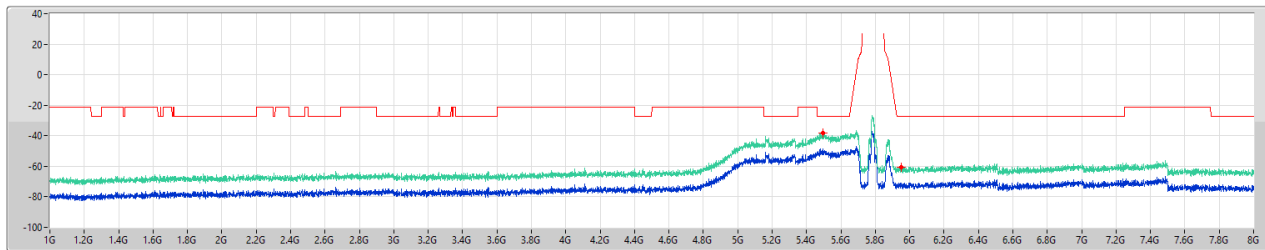
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.44325G	-48.53	-41.20	-7.33	10.40	0.00	-58.93	-58.93

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

CSE Other [PK]

5785MHz

23/12/2024



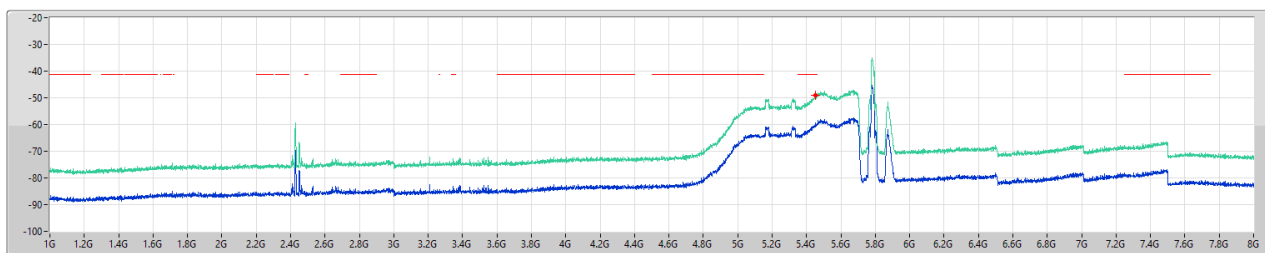
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1G	8G	1M	PK	5.49488G	-38.10	-27.00	-11.10	10.40	0.00	-48.50	-48.50
1G	8G	1M	PK	5.9525G	-60.64	-27.00	-33.64	10.40	0.00	-71.04	-71.04

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

CSE Other [AV]

5785MHz

23/12/2024



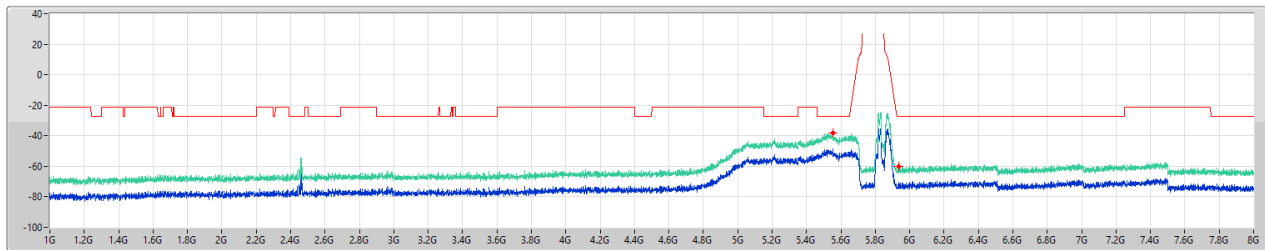
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1G	8G	1M	AV	5.45288G	-49.10	-41.20	-7.90	10.40	0.00	-59.50	-59.50

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

CSE Other [PK]

5825MHz

23/12/2024



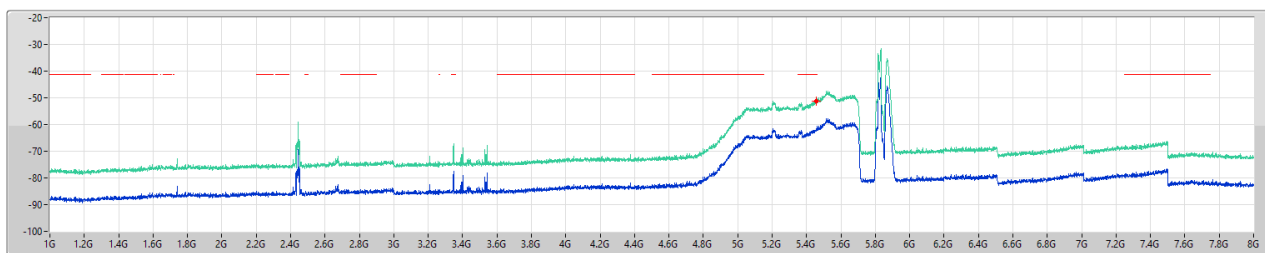
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.55438G	-38.37	-27.00	-11.37	10.40	0.00	-48.77	-48.77
1G	8G	1M	PK	5.93588G	-60.34	-27.00	-33.34	10.40	0.00	-70.74	-70.74

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX

CSE Other [AV]

5825MHz

23/12/2024



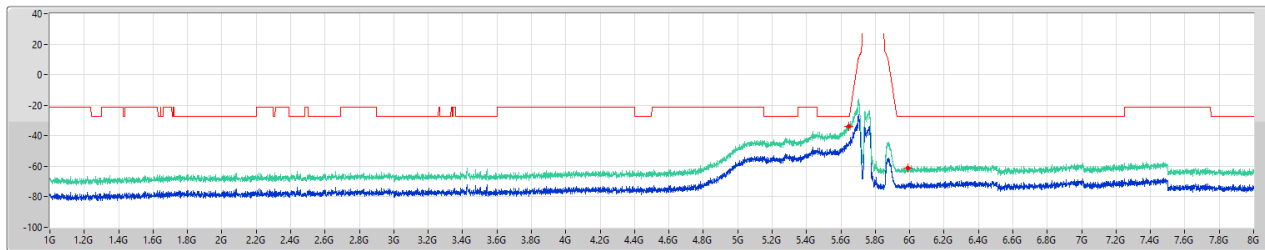
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.4555G	-51.20	-41.20	-10.00	10.40	0.00	-61.60	-61.60

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

CSE Other [PK]

5755MHz

23/12/2024



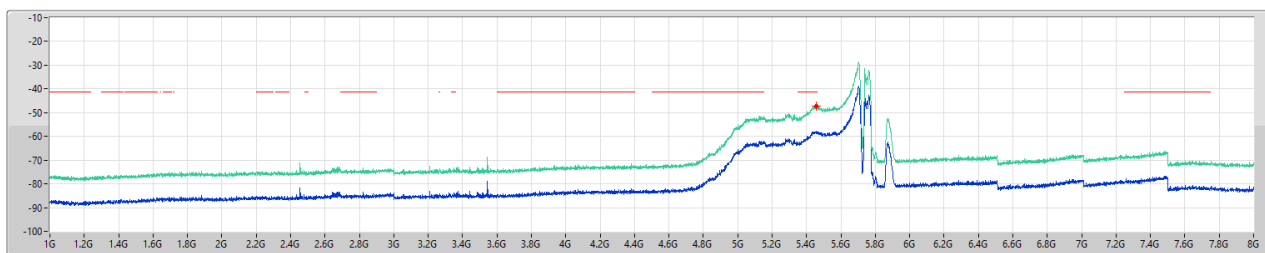
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.64713G	-33.60	-27.00	-6.60	10.40	0.00	-44.00	-44.00
1G	8G	1M	PK	5.98925G	-61.10	-27.00	-34.10	10.40	0.00	-71.50	-71.50

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

CSE Other [AV]

5755MHz

23/12/2024



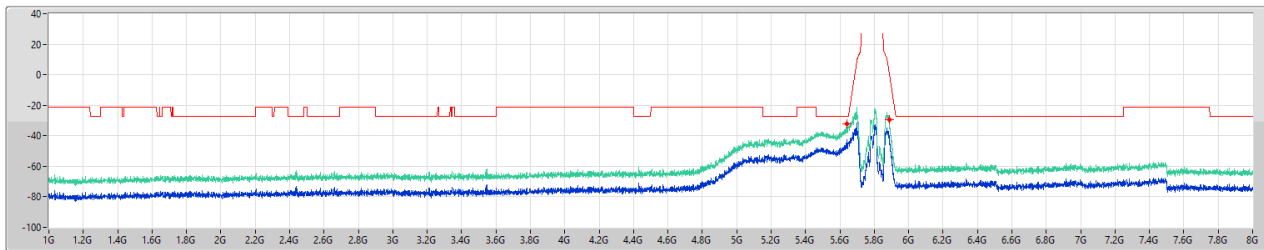
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.45463G	-47.38	-41.20	-6.18	10.40	0.00	-57.78	-57.78

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

CSE Other [PK]

5795MHz

23/12/2024



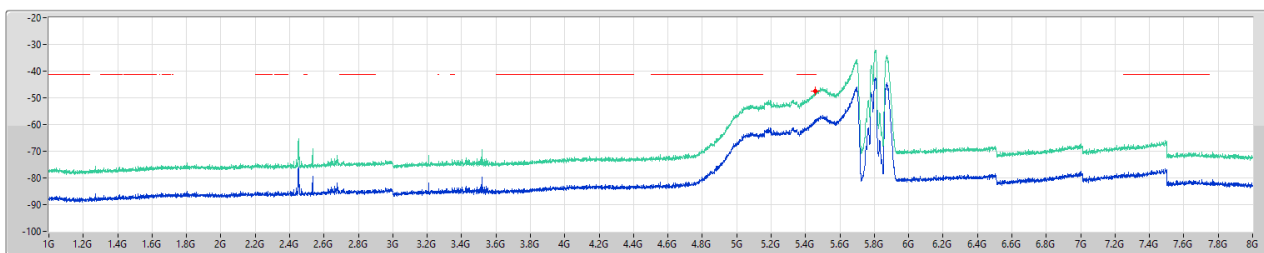
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1G	8G	1M	PK	5.63925G	-32.39	-27.00	-5.39	10.40	0.00	-42.79	-42.79
1G	8G	1M	PK	5.886G	-29.28	1.86	-31.14	10.40	0.00	-39.68	-39.68

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX

CSE Other [AV]

5795MHz

23/12/2024



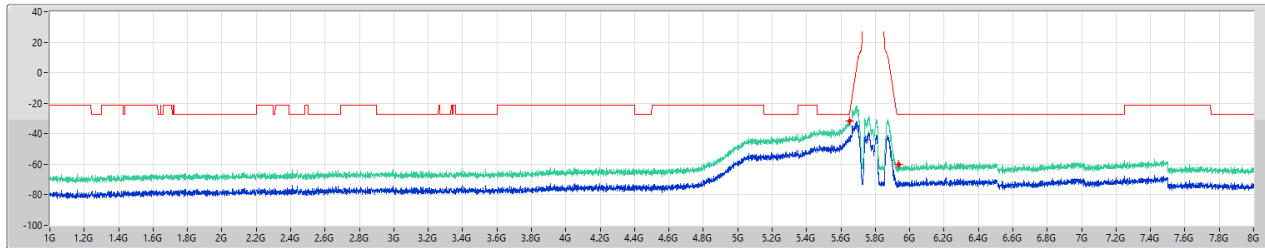
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.45638G	-47.59	-41.20	-6.39	10.40	0.00	-57.99	-57.99

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

CSE Other [PK]

5775MHz

23/12/2024



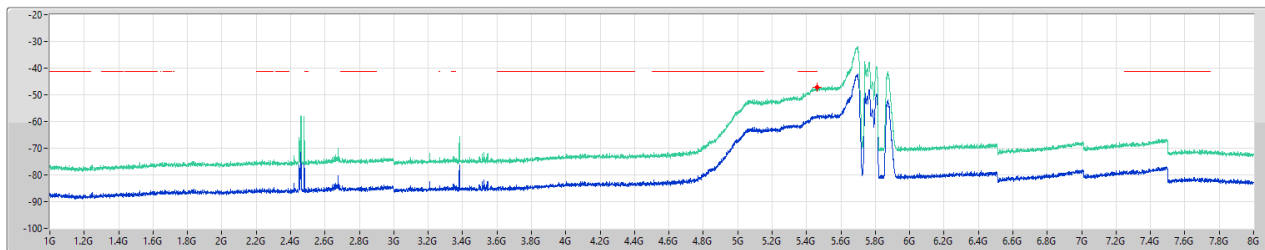
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.64888G	-31.41	-27.00	-4.41	10.40	0.00	-41.81	-41.81
1G	8G	1M	PK	5.93763G	-60.08	-27.00	-33.08	10.40	0.00	-70.48	-70.48

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

CSE Other [AV]

5775MHz

23/12/2024



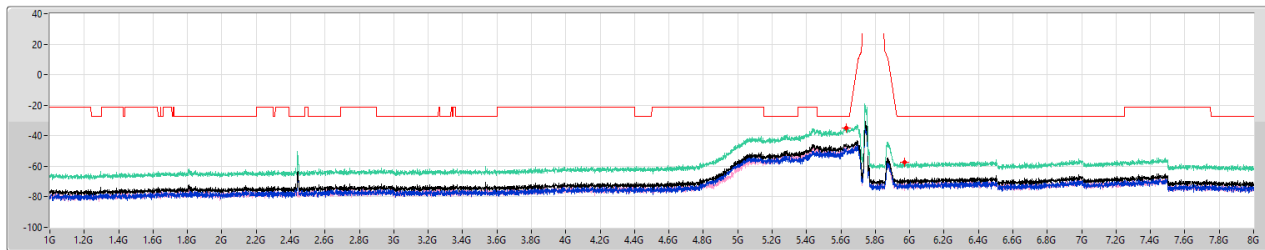
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.45988G	-47.10	-41.20	-5.90	10.40	0.00	-57.50	-57.50

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [PK]

5745MHz

23/12/2024



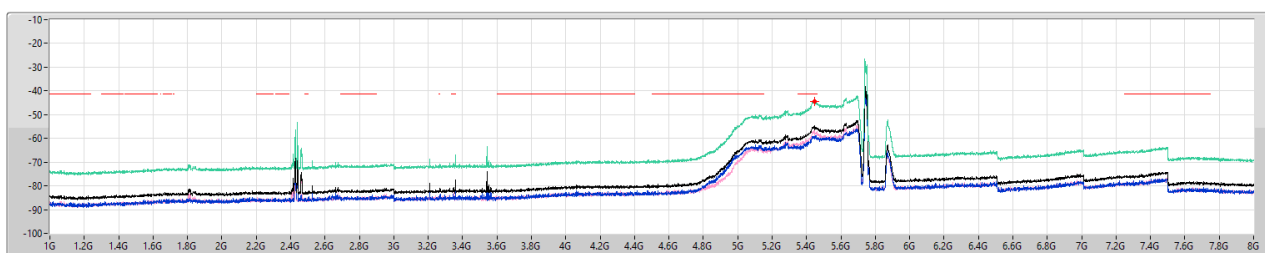
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.63225G	-34.76	-27.00	-7.76	10.40	0.00	-45.16	-48.09	-48.25
1G	8G	1M	PK	5.97G	-57.10	-27.00	-30.10	10.40	0.00	-67.50	-69.93	-71.19

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [AV]

5745MHz

23/12/2024



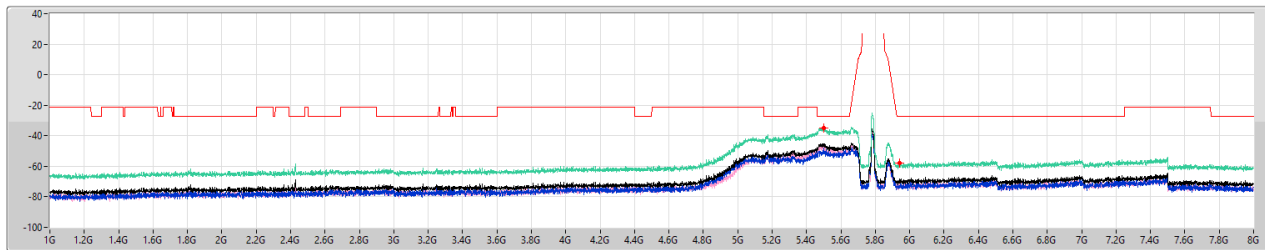
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.445G	-44.38	-41.20	-3.18	10.40	0.00	-54.78	-59.48	-56.57

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [PK]

5785MHz

23/12/2024



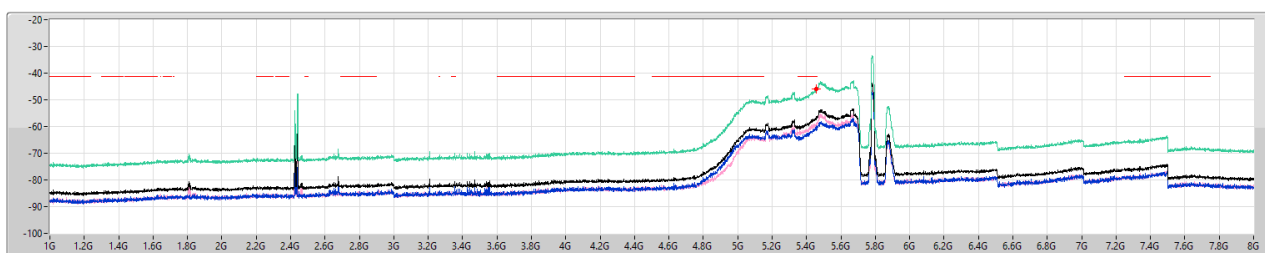
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.49925G	-34.77	-27.00	-7.77	10.40	0.00	-45.17	-51.54	-46.31
1G	8G	1M	PK	5.94025G	-58.06	-27.00	-31.06	10.40	0.00	-68.46	-72.78	-70.47

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [AV]

5785MHz

23/12/2024



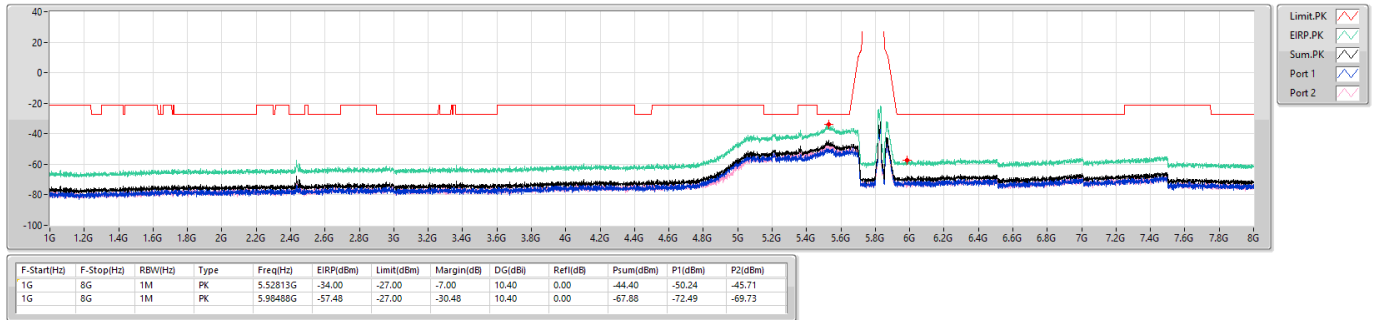
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.45813G	-45.89	-41.20	-4.69	10.40	0.00	-56.29	-59.89	-58.79

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [PK]

5825MHz

23/12/2024

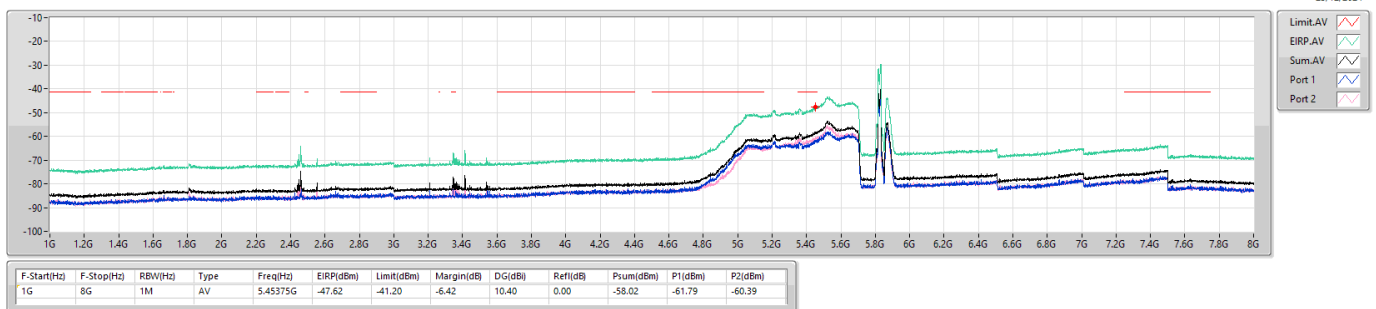


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [AV]

5825MHz

23/12/2024

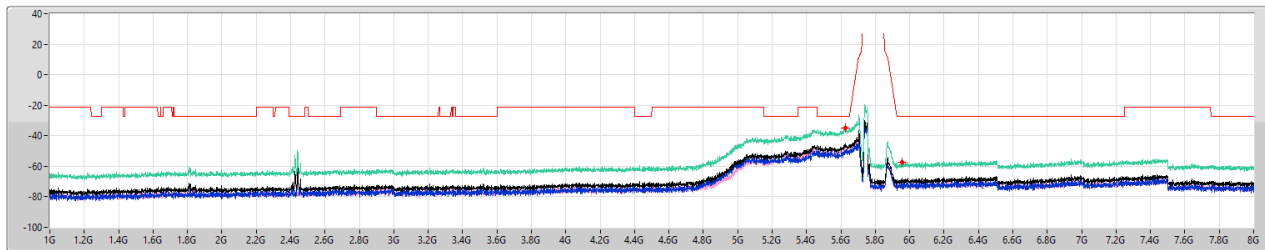


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

CSE Other [PK]

5745MHz

23/12/2024



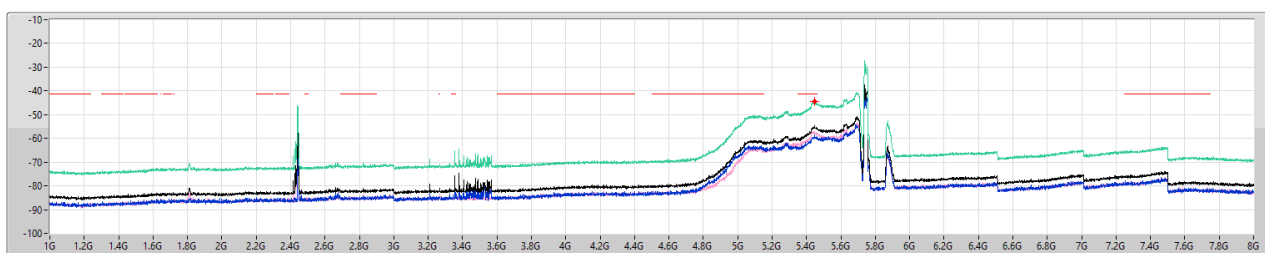
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.62613G	-35.11	-27.00	-8.11	10.40	0.00	-45.51	-49.60	-47.66
1G	8G	1M	PK	5.95338G	-57.19	-27.00	-30.19	10.40	0.00	-67.59	-70.56	-70.64

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

CSE Other [AV]

5745MHz

23/12/2024



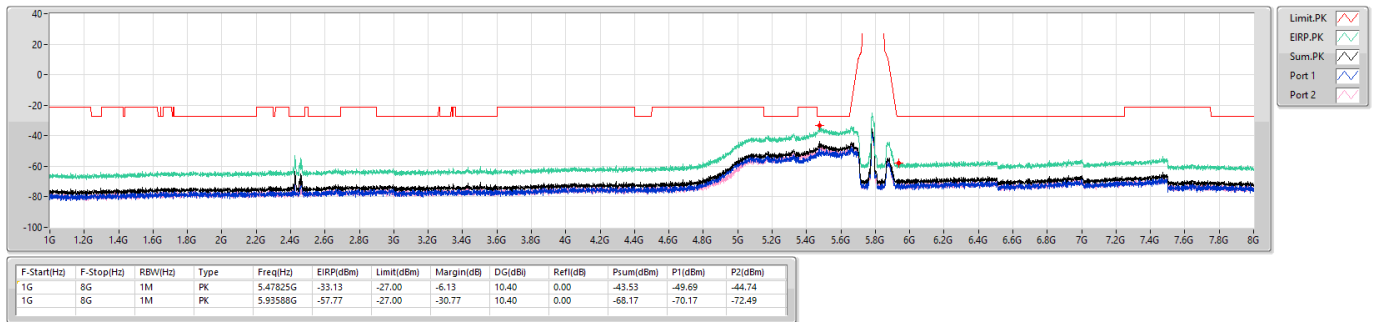
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.44675G	-44.33	-41.20	-3.13	10.40	0.00	-54.73	-58.61	-57.01

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

CSE Other [PK]

5785MHz

23/12/2024

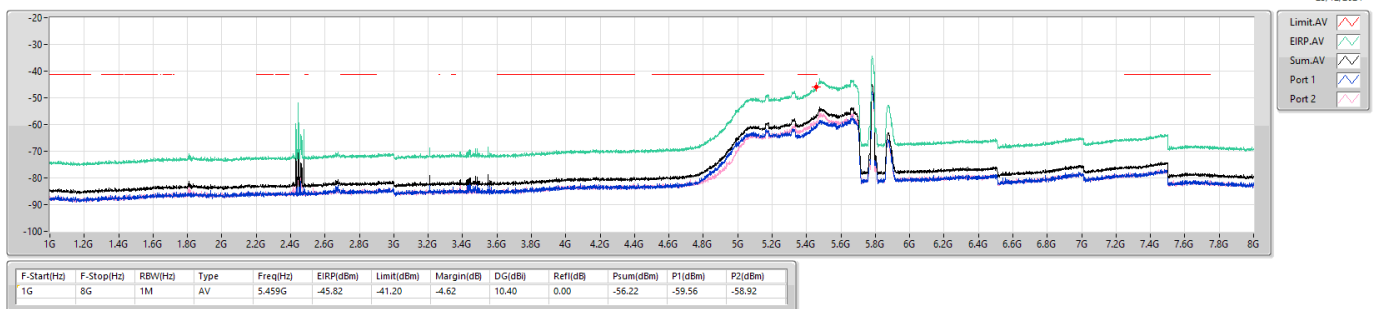


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

CSE Other [AV]

5785MHz

23/12/2024

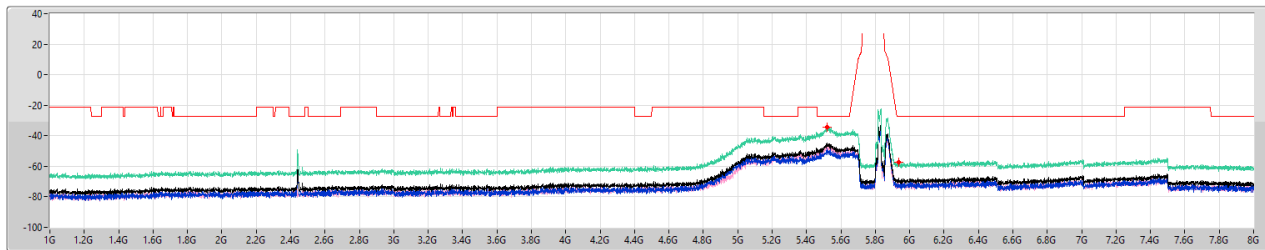


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

CSE Other [PK]

5825MHz

23/12/2024



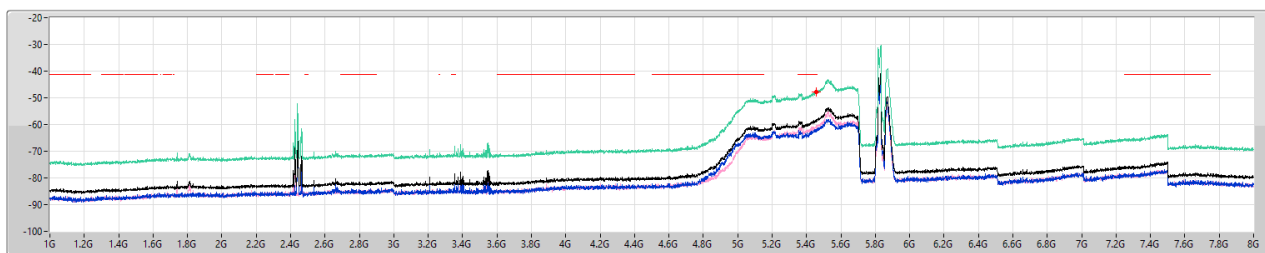
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.52113G	-34.45	-27.00	-7.45	10.40	0.00	-44.85	-49.67	-46.58
1G	8G	1M	PK	5.9385G	-57.57	-27.00	-30.57	10.40	0.00	-67.97	-71.36	-70.63

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

CSE Other [AV]

5825MHz

23/12/2024



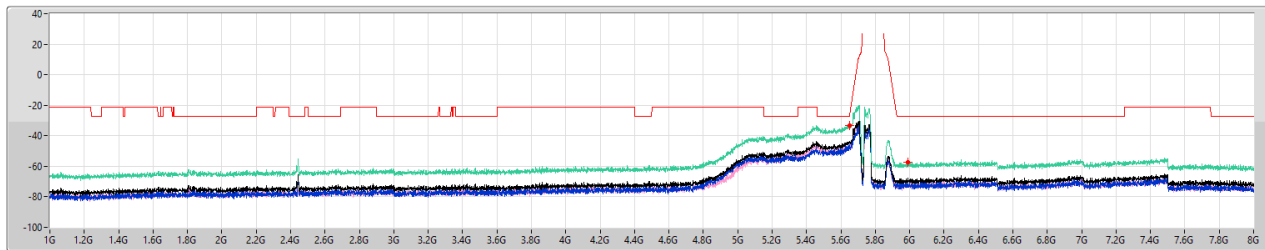
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.45813G	-47.74	-41.20	-6.54	10.40	0.00	-58.14	-62.11	-60.36

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

CSE Other [PK]

5755MHz

23/12/2024



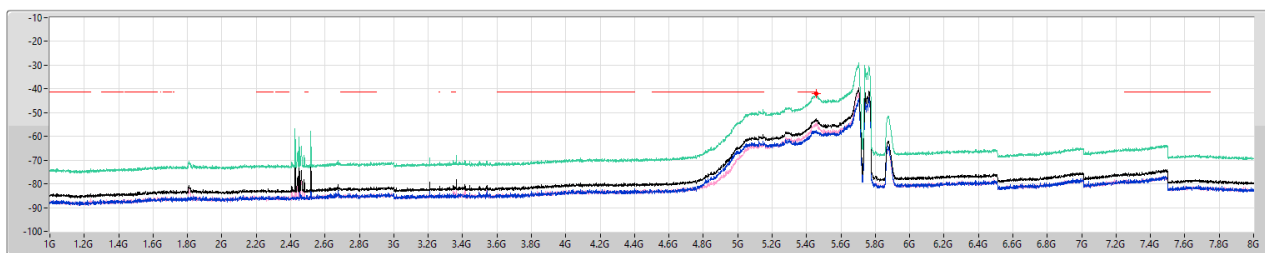
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.64975G	-33.55	-27.00	-6.55	10.40	0.00	-43.95	-48.53	-45.81
1G	8G	1M	PK	5.98838G	-57.37	-27.00	-30.37	10.40	0.00	-67.77	-71.23	-70.38

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

CSE Other [AV]

5755MHz

23/12/2024



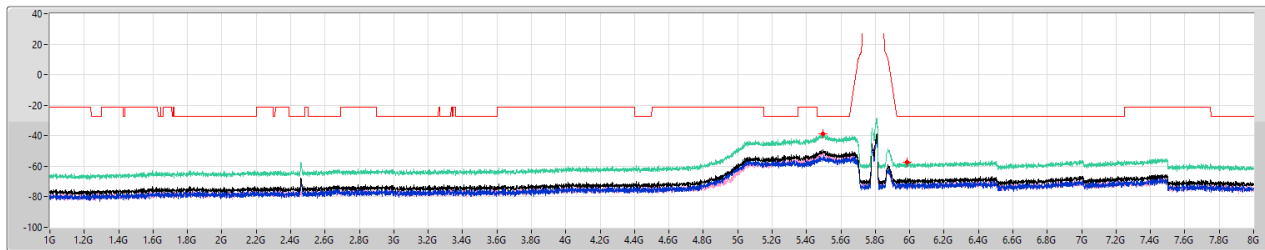
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.45463G	-41.97	-41.20	-0.77	10.40	0.00	-52.37	-57.43	-55.99

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

CSE Other [PK]

5795MHz

23/12/2024



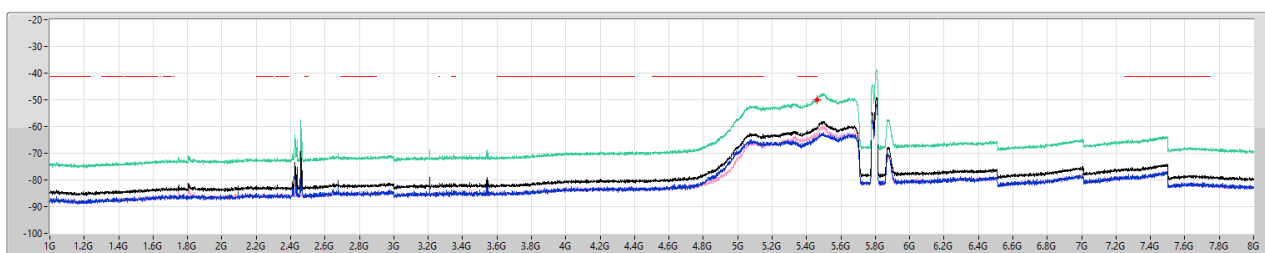
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.4975G	-38.77	-27.00	-11.77	10.40	0.00	-49.17	-54.26	-50.78
1G	8G	1M	PK	5.98663G	-57.19	-27.00	-30.19	10.40	0.00	-67.59	-68.95	-73.28

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

CSE Other [AV]

5795MHz

23/12/2024



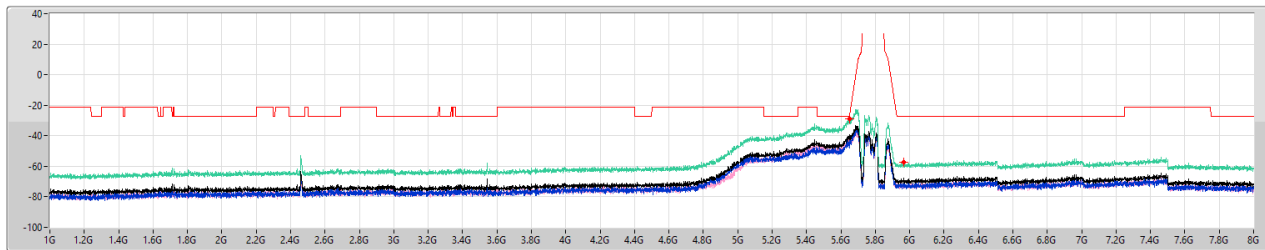
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.45988G	-50.00	-41.20	-8.80	10.40	0.00	-60.40	-64.26	-62.70

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

CSE Other [PK]

5775MHz

23/12/2024



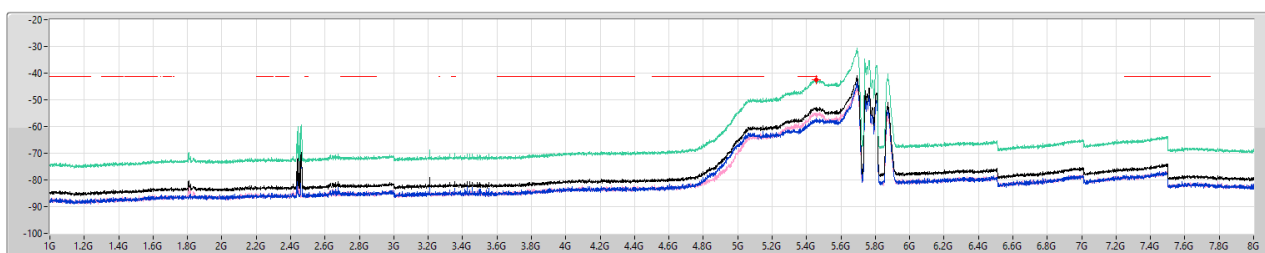
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.65063G	-28.71	-26.54	-2.17	10.40	0.00	-39.11	-43.25	-41.23
1G	8G	1M	PK	5.96475G	-57.23	-27.00	-30.23	10.40	0.00	-67.63	-69.89	-71.55

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

CSE Other [AV]

5775MHz

23/12/2024



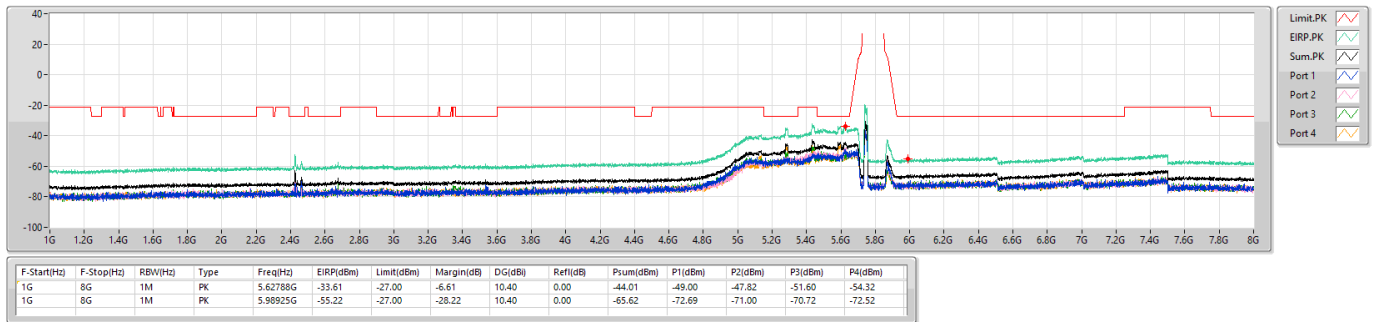
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.45638G	-42.38	-41.20	-1.18	10.40	0.00	-52.78	-56.86	-54.93

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

CSE Other [PK]

5745MHz

23/12/2024

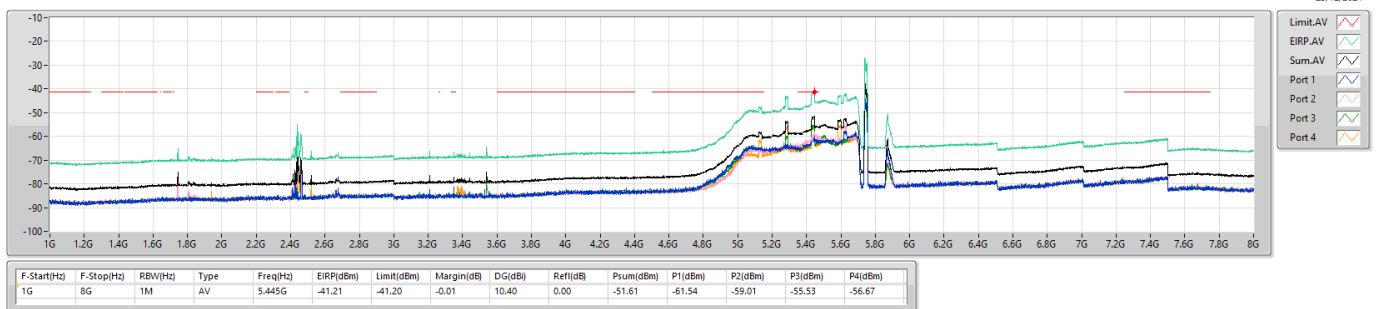


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

CSE Other [AV]

5745MHz

23/12/2024

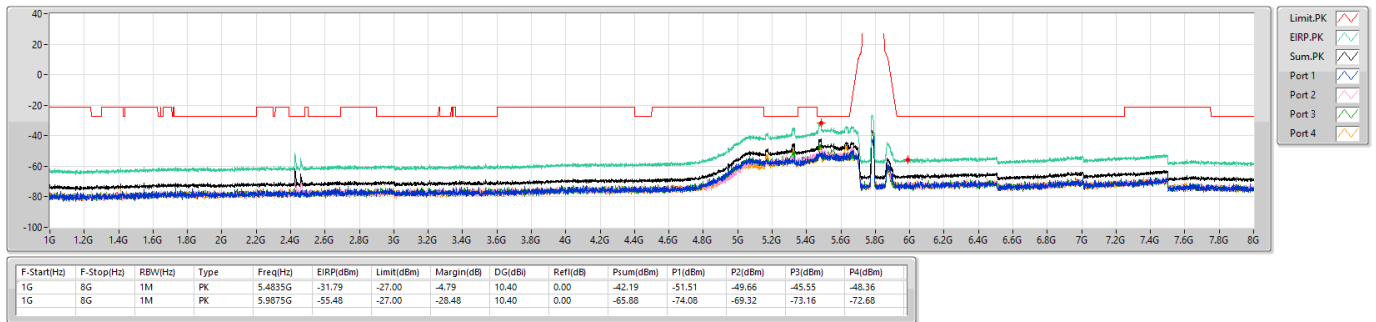


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

CSE Other [PK]

5785MHz

23/12/2024

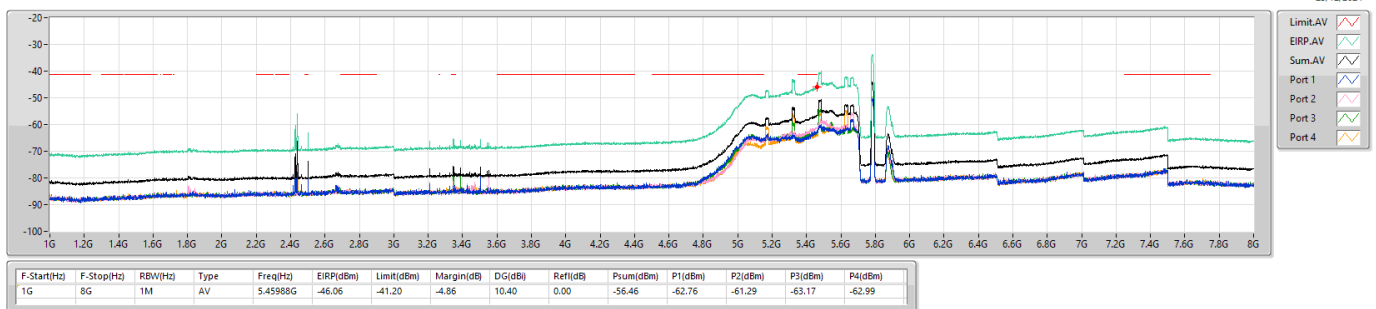


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

CSE Other [AV]

5785MHz

23/12/2024

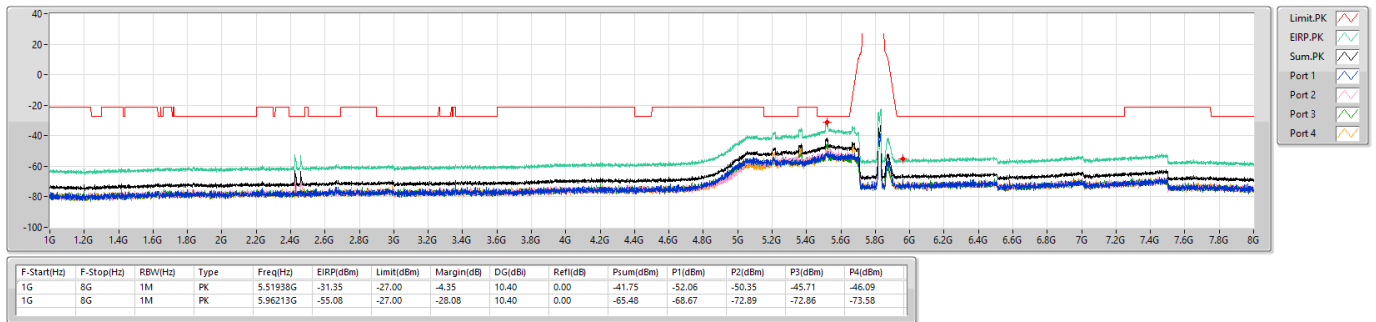


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

CSE Other [PK]

5825MHz

23/12/2024

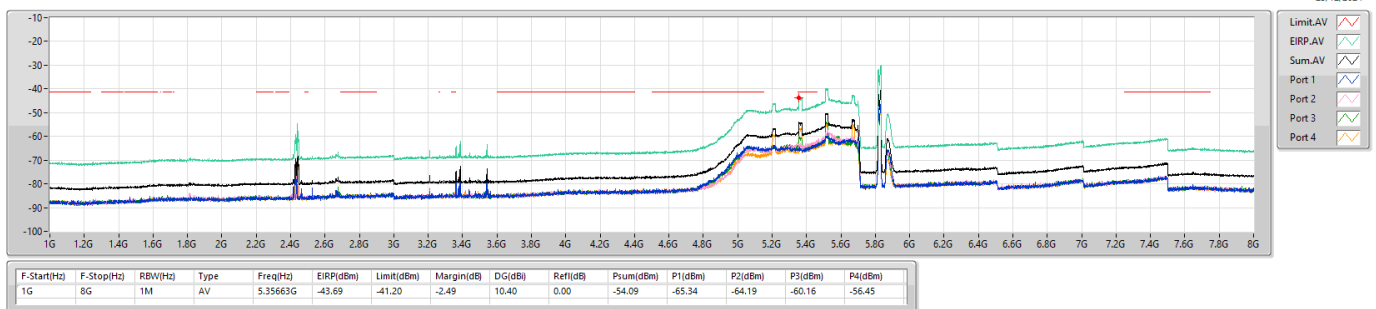


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

CSE Other [AV]

5825MHz

23/12/2024

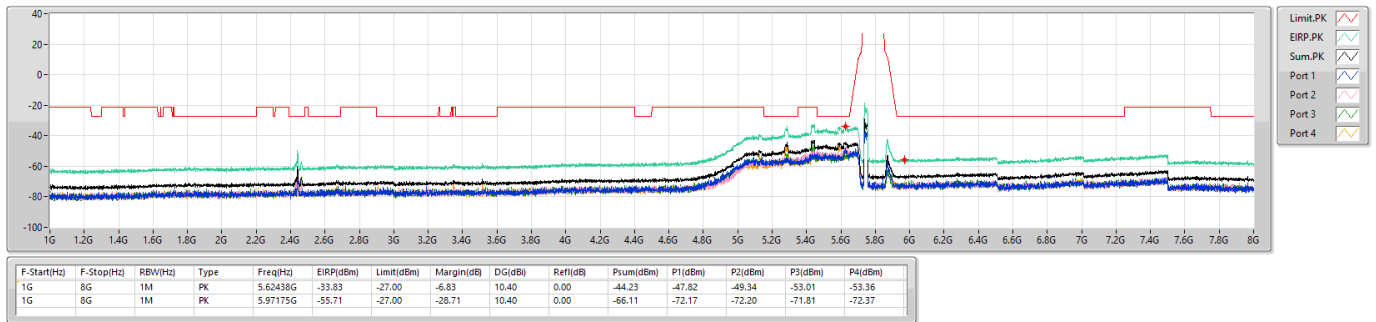


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSE Other [PK]

5745MHz

23/12/2024

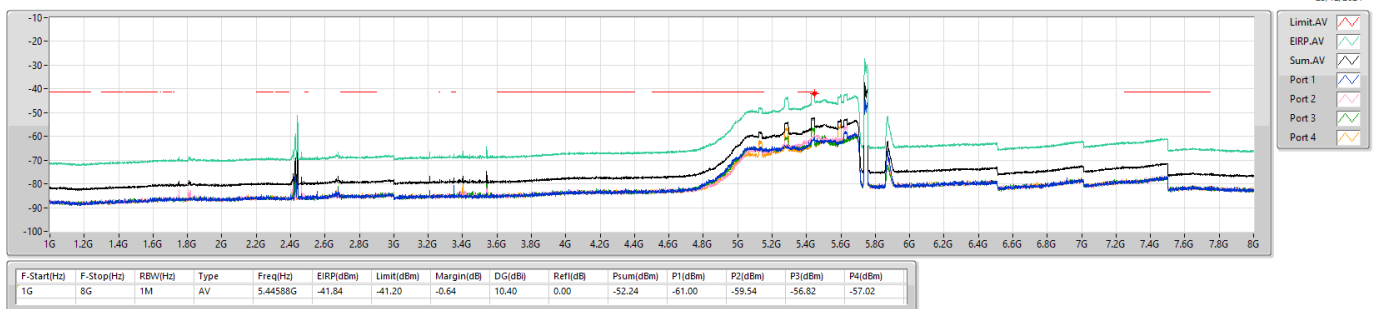


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSE Other [AV]

5745MHz

23/12/2024

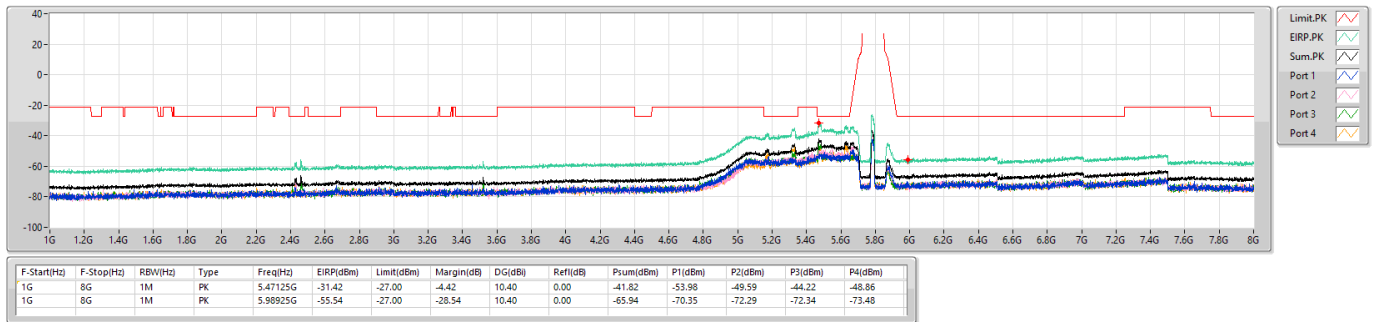


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSE Other [PK]

5785MHz

23/12/2024

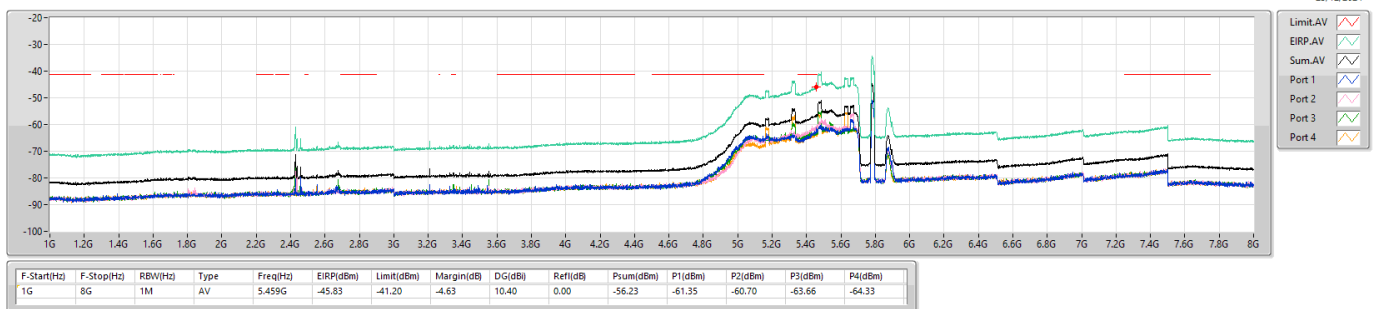


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSE Other [AV]

5785MHz

23/12/2024

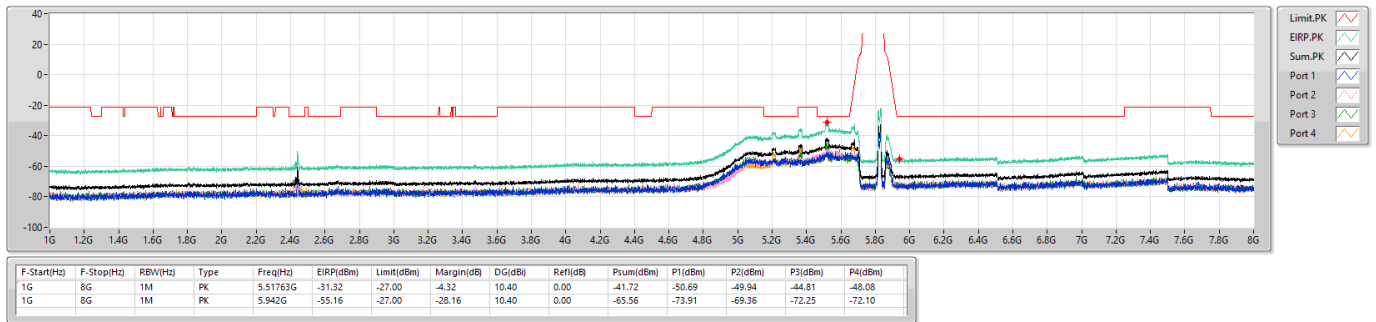


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSE Other [PK]

5825MHz

23/12/2024

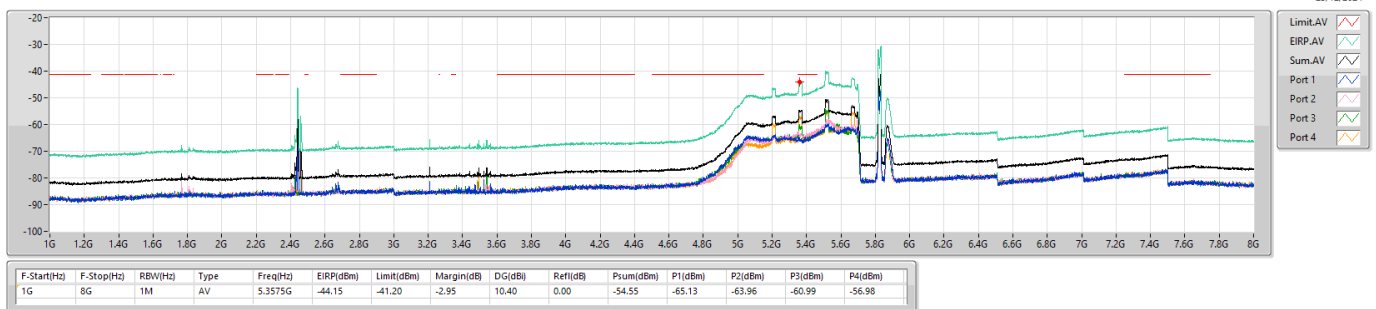


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSE Other [AV]

5825MHz

23/12/2024

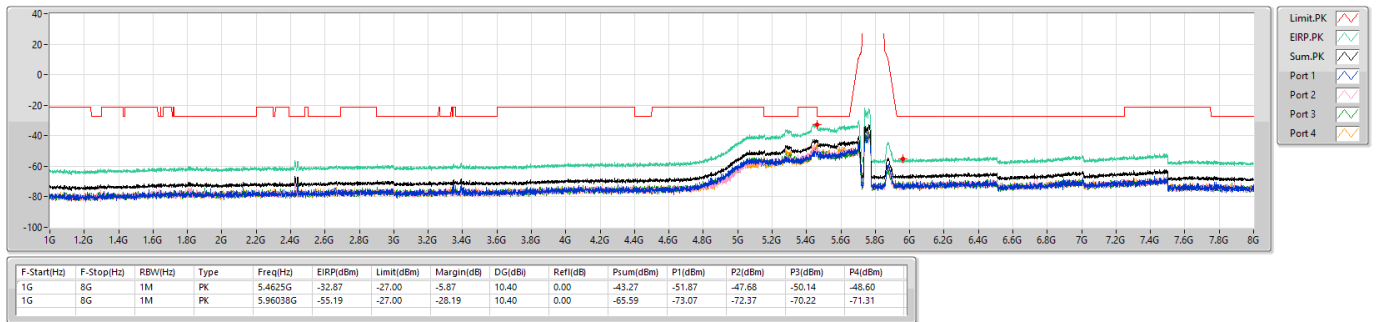


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSE Other [PK]

5755MHz

23/12/2024

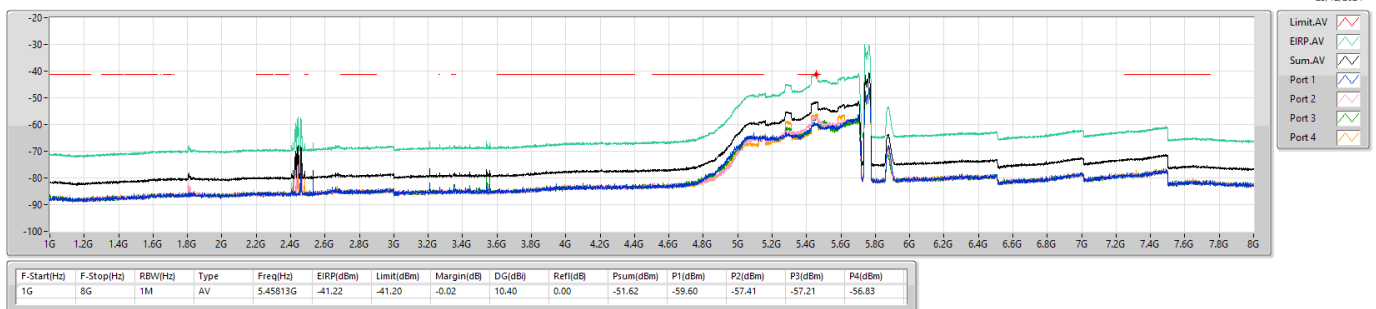


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSE Other [AV]

5755MHz

23/12/2024

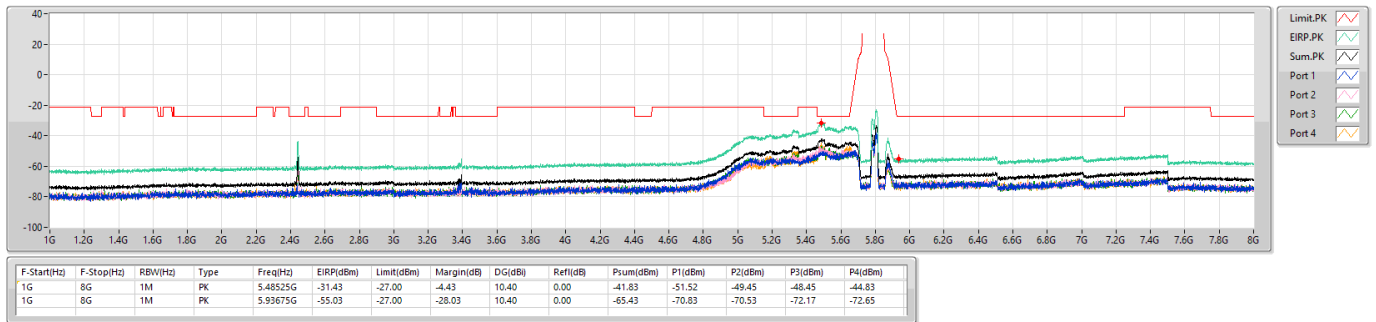


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSE Other [PK]

5795MHz

23/12/2024

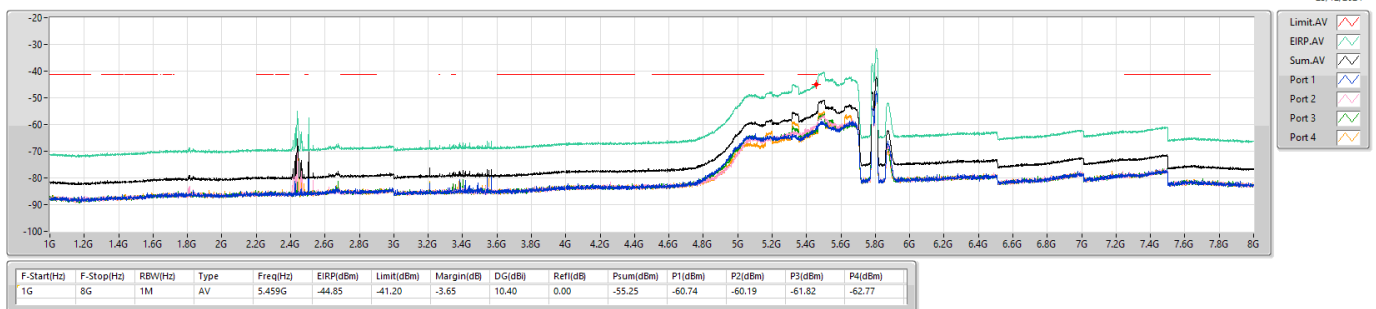


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSE Other [AV]

5795MHz

23/12/2024

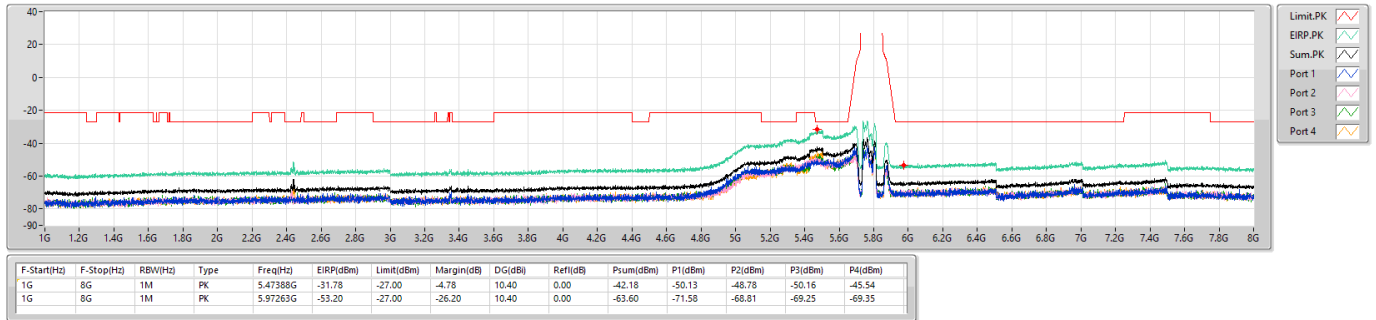


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

CSE Other [PK]

5775MHz

23/12/2024

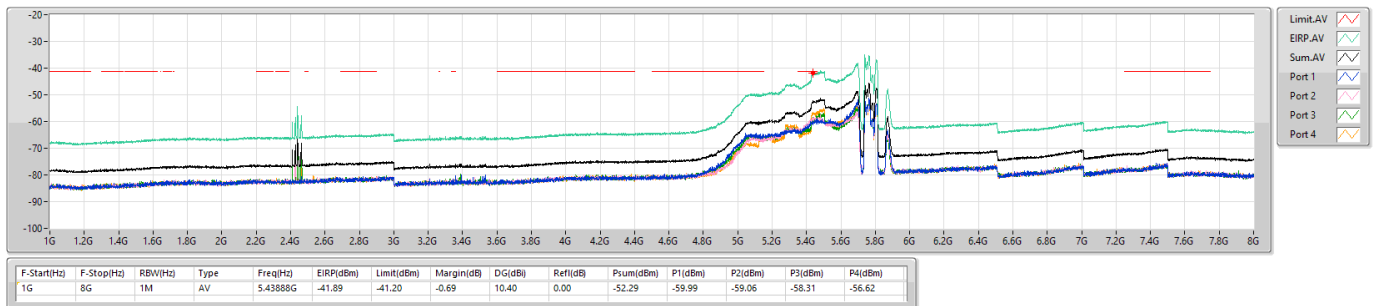


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

CSE Other [AV]

5775MHz

23/12/2024





CSE Harmonic (1~8GHz)_R3_Multi-RU
(Parent Device / FCC ID: UDX-600216010)

Appendix E.4

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	DG (dBi)	EIRP (dBm)	Psum (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Limit (dBm)	Margin (dB)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11be EHT80_Nss1(MCS0)_1TX	Pass	1G	8G	AV	10.40	-50.72	-61.12	-61.12				-41.20	-9.52
802.11be EHT80_Nss1(MCS0)_2TX	Pass	1G	8G	AV	10.40	-48.27	-58.67	-62.15	-61.25			-41.20	-7.07
802.11be EHT80_Nss1(MCS0)_4TX	Pass	1G	8G	AV	10.40	-46.76	-57.16	-64.37	-64.59	-64.11	-60.85	-41.20	-5.56

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



CSE Harmonic (1~8GHz)_R3_Multi-RU
(Parent Device / FCC ID: UDX-600216010)

Appendix E.4

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.39338G	10.40	-61.12				-61.12	-50.72	-41.20	-9.52
5775MHz	Pass	1G	8G	PK	5.32425G	10.40	-53.44				-53.44	-43.04	-27.00	-16.04
5775MHz	Pass	1G	8G	PK	6.44075G	10.40	-75.08				-75.08	-64.68	-27.00	-37.68
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.38025G	10.40	-62.92				-62.92	-52.52	-41.20	-11.32
5775MHz	Pass	1G	8G	PK	5.31113G	10.40	-53.26				-53.26	-42.86	-27.00	-15.86
5775MHz	Pass	1G	8G	PK	6.3795G	10.40	-75.49				-75.49	-65.09	-27.00	-38.09
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.403G	10.40	-62.15	-61.25			-58.67	-48.27	-41.20	-7.07
5775MHz	Pass	1G	8G	PK	5.29888G	10.40	-54.68	-54.31			-51.48	-41.08	-27.00	-14.08
5775MHz	Pass	1G	8G	PK	6.313G	10.40	-76.24	-76.65			-73.43	-63.03	-27.00	-36.03
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.40475G	10.40	-64.69	-61.98			-60.12	-49.72	-41.20	-8.52
5775MHz	Pass	1G	8G	PK	5.34088G	10.40	-56.60	-55.21			-52.84	-42.44	-27.00	-15.44
5775MHz	Pass	1G	8G	PK	6.40925G	10.40	-74.98	-79.14			-73.57	-63.17	-27.00	-36.17
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.35313G	10.40	-64.75	-64.04	-63.92	-62.35	-57.65	-47.25	-41.20	-6.05
5775MHz	Pass	1G	8G	PK	5.33738G	10.40	-58.99	-57.23	-57.00	-54.11	-50.44	-40.04	-27.00	-13.04
5775MHz	Pass	1G	8G	PK	6.22375G	10.40	-75.40	-77.25	-78.13	-78.04	-71.04	-60.64	-27.00	-33.64
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.3505G	10.40	-64.37	-64.59	-64.11	-60.85	-57.16	-46.76	-41.20	-5.56
5775MHz	Pass	1G	8G	PK	5.33913G	10.40	-58.45	-58.20	-57.17	-52.22	-49.64	-39.24	-27.00	-12.24
5775MHz	Pass	1G	8G	PK	6.22375G	10.40	-78.69	-74.69	-78.33	-77.18	-70.90	-60.50	-27.00	-33.50

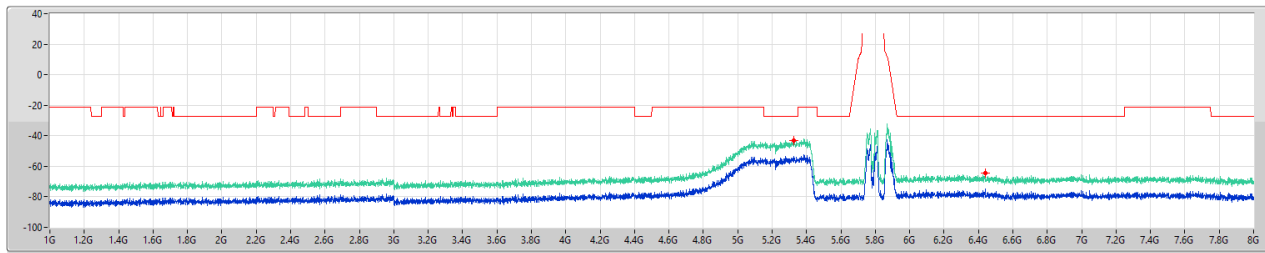
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX

CSE Other [PK]

5775MHz

08/02/2025



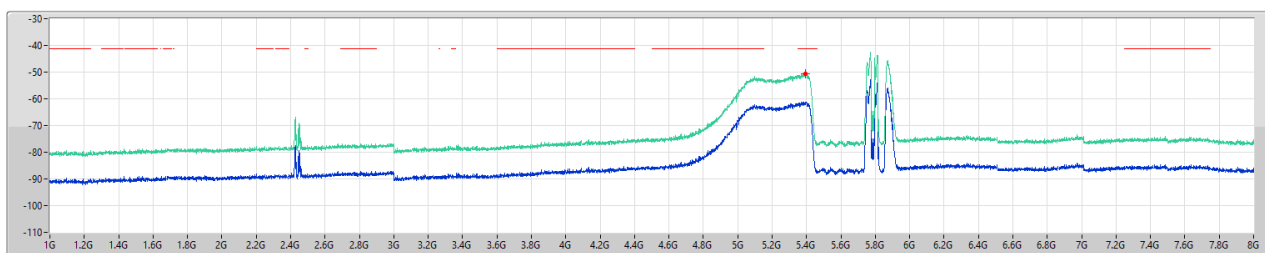
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.32425G	-43.04	-27.00	-16.04	10.40	0.00	-53.44	-53.44
1G	8G	1M	PK	6.44075G	-64.68	-27.00	-37.68	10.40	0.00	-75.08	-75.08

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX

CSE Other [AV]

5775MHz

08/02/2025



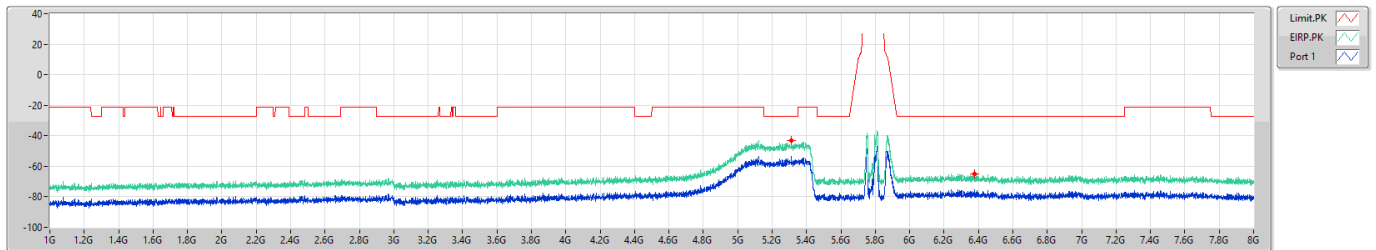
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.39338G	-50.72	-41.20	-9.52	10.40	0.00	-61.12	-61.12

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX

CSE Other [PK]

5775MHz

08/02/2025

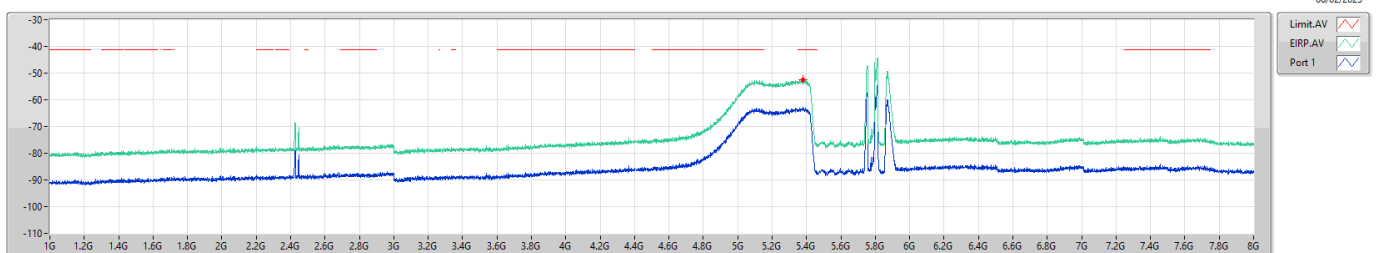


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX

CSE Other [AV]

5775MHz

08/02/2025

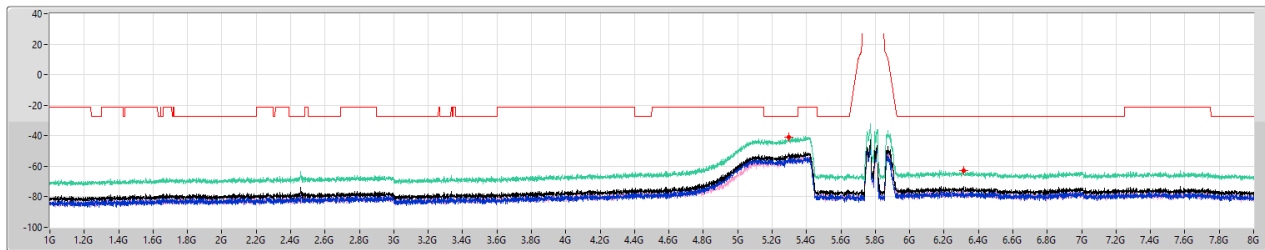


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX

CSE Other [PK]

5775MHz

08/02/2025



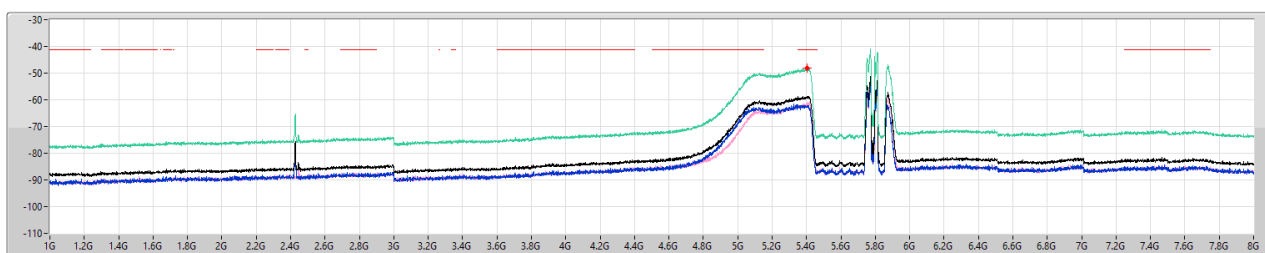
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.29888G	-41.08	-27.00	-14.08	10.40	0.00	-51.48	-54.68	-54.31
1G	8G	1M	PK	6.313G	-63.03	-27.00	-36.03	10.40	0.00	-73.43	-76.24	-76.65

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX

CSE Other [AV]

5775MHz

08/02/2025



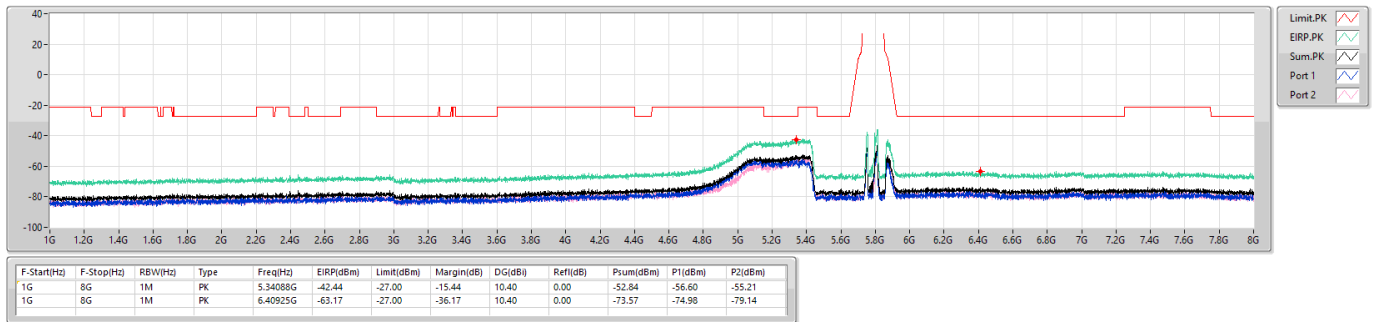
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.403G	-48.27	-41.20	-7.07	10.40	0.00	-58.67	-62.15	-61.25

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX

CSE Other [PK]

5775MHz

08/02/2025

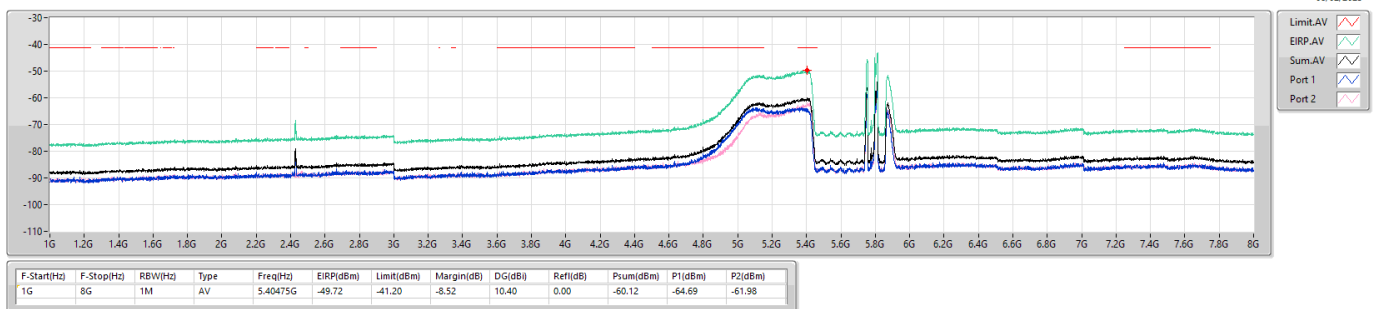


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX

CSE Other [AV]

5775MHz

08/02/2025

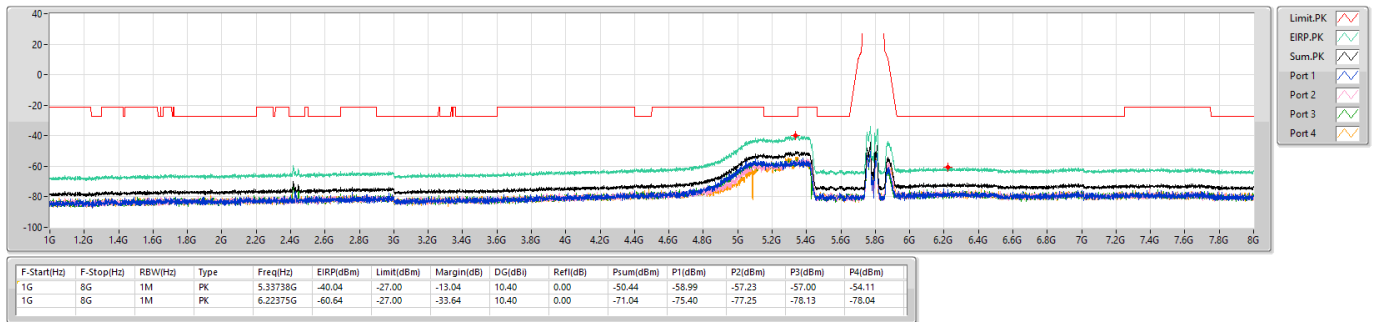


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX

CSE Other [PK]

5775MHz

08/02/2025

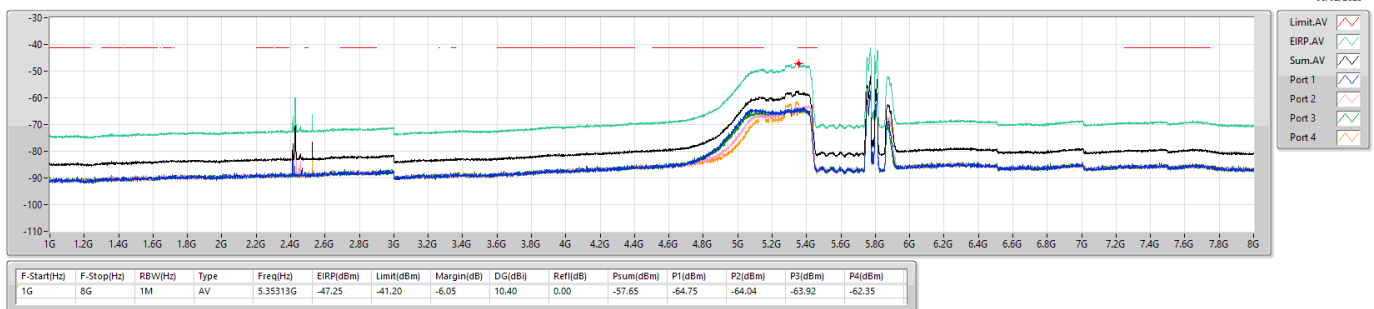


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX

CSE Other [AV]

5775MHz

08/02/2025

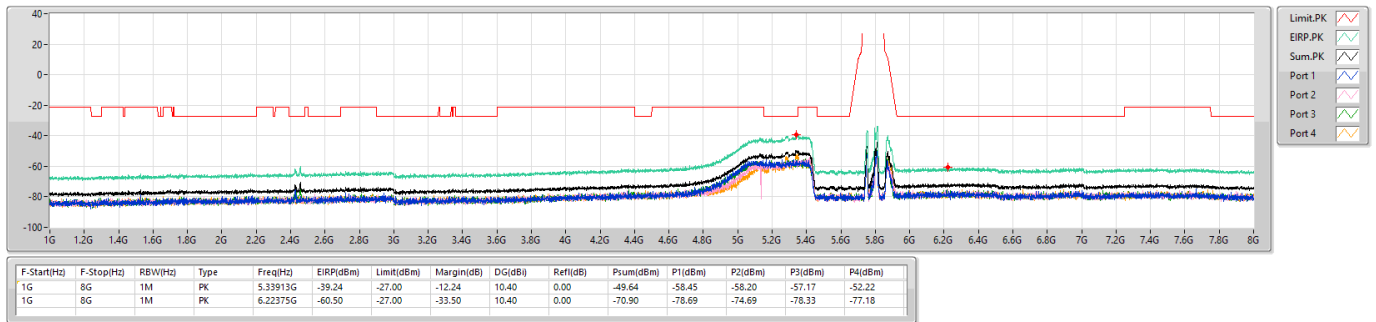


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CSE Other [PK]

5775MHz

08/02/2025

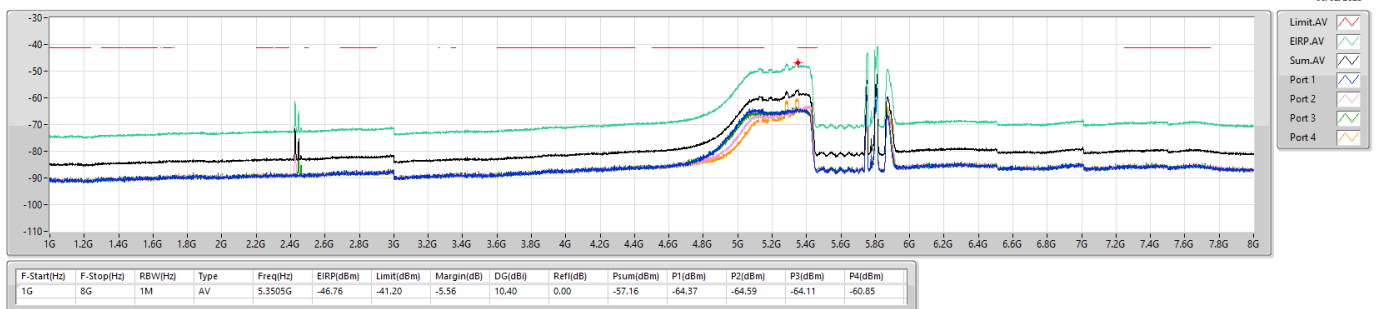


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX

CSE Other [AV]

5775MHz

08/02/2025





CSE Harmonic (1~8GHz)_R3_Puncturing
(Parent Device / FCC ID: UDX-600216010)

Appendix E.5

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	DG (dBi)	EIRP (dBm)	Psum (dBm)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Limit (dBm)	Margin (dB)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11be EHT80_Nss1(MCS0)_1TX	Pass	1G	8G	PK	10.40	-31.91	-42.31	-42.31				-27	-4.91
802.11be EHT80_Nss1(MCS0)_2TX	Pass	1G	8G	AV	10.40	-42.58	-52.98	-58.97	-54.24			-41.2	-1.38
802.11be EHT80_Nss1(MCS0)_4TX	Pass	1G	8G	AV	10.40	-42.40	-52.8	-63.04	-57.77	-60.97	-56.43	-41.2	-1.20

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



CSE Harmonic (1~8GHz)_R3_Puncturing
(Parent Device / FCC ID: UDX-600216010)

Appendix E.5

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	P3 (dBm)	P4 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.4415G	10.40	-59.12				-59.12	-48.72	-41.2	-7.52
5775MHz	Pass	1G	8G	PK	5.6445G	10.40	-42.31				-42.31	-31.91	-27	-4.91
5775MHz	Pass	1G	8G	PK	6.39875G	10.40	-75.99				-75.99	-65.59	-27	-38.59
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.45463G	10.40	-58.97	-54.24			-52.98	-42.58	-41.2	-1.38
5775MHz	Pass	1G	8G	PK	5.63925G	10.40	-50.76	-42.72			-42.09	-31.69	-27	-4.69
5775MHz	Pass	1G	8G	PK	6.99375G	10.40	-77.82	-75.77			-73.66	-63.26	-27	-36.26
802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 2_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	1G	8G	AV	5.44413G	10.40	-63.04	-57.77	-60.97	-56.43	-52.8	-42.40	-41.2	-1.20
5775MHz	Pass	1G	8G	PK	5.48175G	10.40	-54.81	-46.61	-54.43	-48.86	-43.79	-33.39	-27	-6.39
5775MHz	Pass	1G	8G	PK	6.40488G	10.40	-78.71	-74.47	-79.87	-77.65	-71.15	-60.75	-27	-33.75

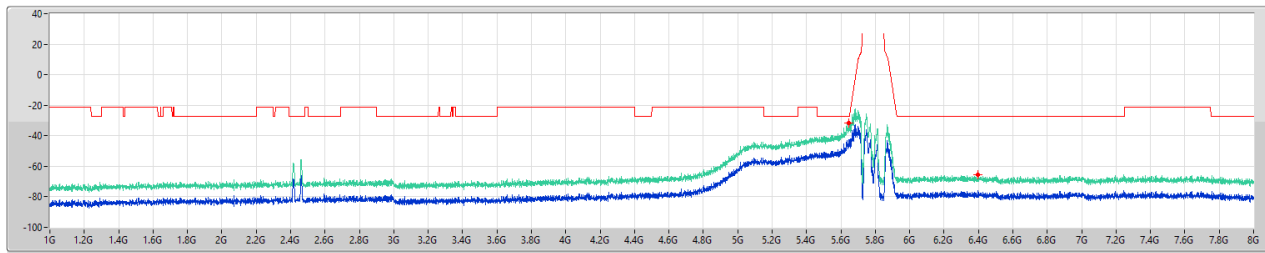
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_1TX

CSE Other [PK]

5775MHz

13/02/2025



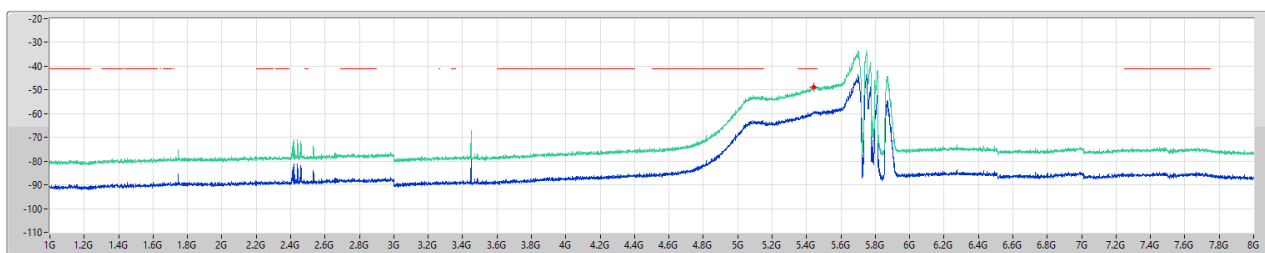
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	PK	5.6445G	-31.91	-27.00	-4.91	10.40	0.00	-42.31	-42.31
1G	8G	1M	PK	6.39875G	-65.59	-27.00	-38.59	10.40	0.00	-75.99	-75.99

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_1TX

CSE Other [AV]

5775MHz

13/02/2025



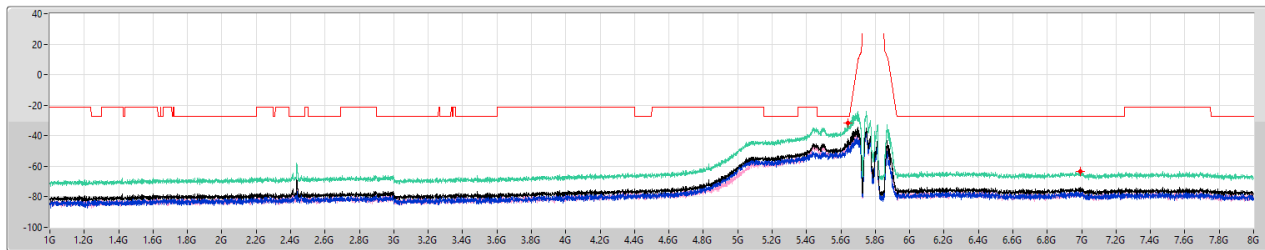
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)
1G	8G	1M	AV	5.4415G	-48.72	-41.20	-7.52	10.40	0.00	-59.12	-59.12

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_2TX

CSE Other [PK]

5775MHz

13/02/2025



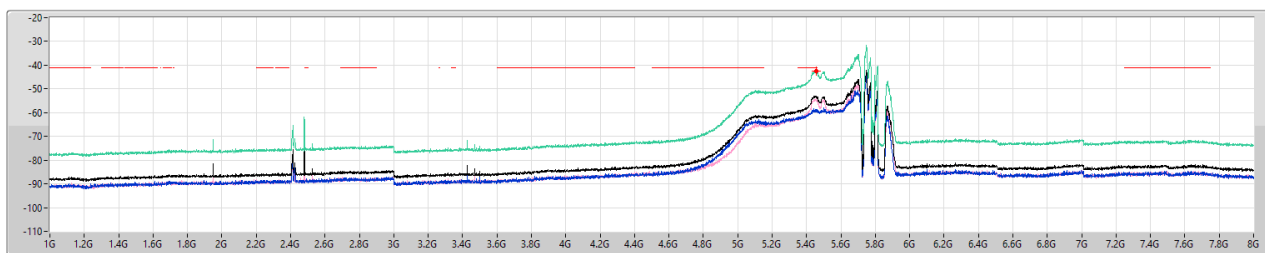
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.63925G	-31.69	-27.00	-4.69	10.40	0.00	-42.09	-50.76	-42.72
1G	8G	1M	PK	6.99375G	-63.26	-27.00	-36.26	10.40	0.00	-73.66	-77.82	-75.77

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 3_2TX

CSE Other [AV]

5775MHz

13/02/2025



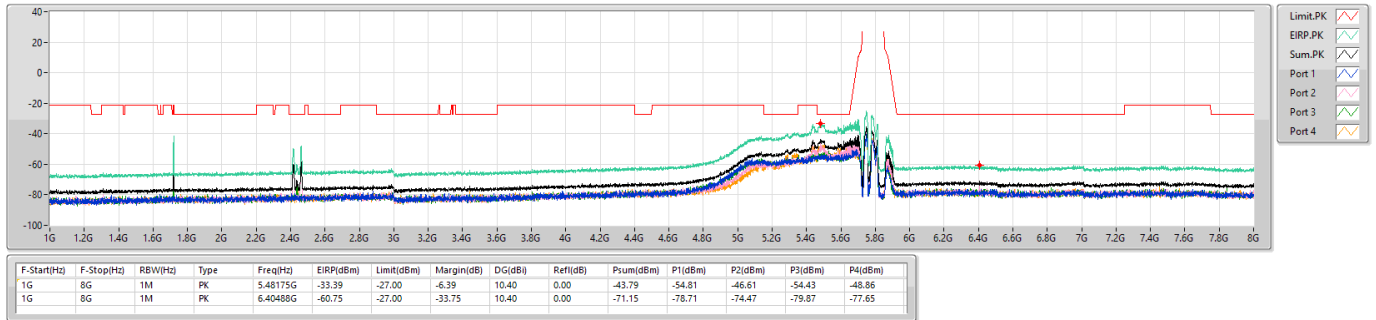
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.45463G	-42.58	-41.20	-1.38	10.40	0.00	-52.98	-58.97	-54.24

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 2_4TX

CSE Other [PK]

5775MHz

13/02/2025

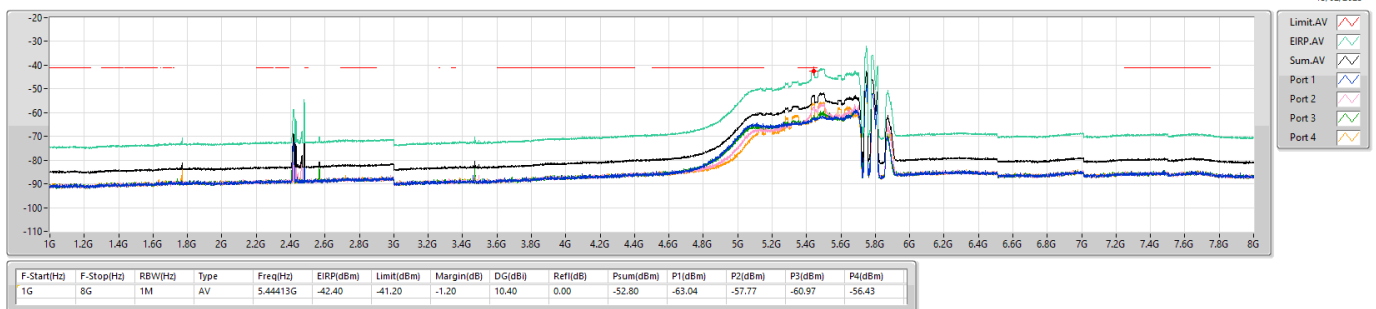


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0),RU484+RU242 CP 2_4TX

CSE Other [AV]

5775MHz

13/02/2025





CSE Harmonic (8~40GHz)_R1
(Parent Device / FCC ID: UDX-600216010)

Appendix E.6

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	EIRP (dBm)	Psum (dBm)	P1 (dBm)	Limit (dBm)	Margin (dB)	DG (dBi)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1.(6Mbps)_1TX	Pass	8G	40G	AV	-50.93	-57.03	-57.03	-41.20	-9.73	6.10
802.11ax HEW20_Nss1.(MCS0)_1TX	Pass	8G	40G	AV	-50.93	-57.03	-57.03	-41.20	-9.73	6.10
802.11ax HEW40_Nss1.(MCS0)_1TX	Pass	8G	40G	AV	-50.80	-56.90	-56.90	-41.20	-9.60	6.10
802.11ax HEW80_Nss1.(MCS0)_1TX	Pass	8G	40G	AV	-50.79	-56.89	-56.89	-41.20	-9.59	6.10

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



CSE Harmonic (8~40GHz)_R1
(Parent Device / FCC ID: UDX-600216010)

Appendix E.6

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	8G	40G	AV	11.49G	6.10	-66.08	-66.08	-59.98	-41.20	-18.78
5745MHz	Pass	8G	40G	AV	39.803G	6.10	-57.15	-57.15	-51.05	-41.20	-9.85
5745MHz	Pass	8G	40G	PK	11.478G	6.10	-59.48	-59.48	-53.38	-21.20	-32.18
5745MHz	Pass	8G	40G	PK	37.14G	6.10	-49.97	-49.97	-43.87	-27.00	-16.87
5785MHz	Pass	8G	40G	AV	11.571G	6.10	-66.20	-66.20	-60.10	-41.20	-18.90
5785MHz	Pass	8G	40G	AV	39.82G	6.10	-57.03	-57.03	-50.93	-41.20	-9.73
5785MHz	Pass	8G	40G	PK	11.58G	6.10	-59.53	-59.53	-53.43	-21.20	-32.23
5785MHz	Pass	8G	40G	PK	38.546G	6.10	-49.17	-49.17	-43.07	-27.00	-16.07
5825MHz	Pass	8G	40G	AV	11.646G	6.10	-66.16	-66.16	-60.06	-41.20	-18.86
5825MHz	Pass	8G	40G	AV	39.137G	6.10	-57.10	-57.10	-51.00	-41.20	-9.80
5825MHz	Pass	8G	40G	PK	11.64G	6.10	-59.40	-59.40	-53.30	-21.20	-32.10
5825MHz	Pass	8G	40G	PK	37.485G	6.10	-50.11	-50.11	-44.01	-27.00	-17.01
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	8G	40G	AV	11.496G	6.10	-66.46	-66.46	-60.36	-41.20	-19.16
5745MHz	Pass	8G	40G	AV	39.81G	6.10	-57.16	-57.16	-51.06	-41.20	-9.86
5745MHz	Pass	8G	40G	PK	11.484G	6.10	-59.06	-59.06	-52.96	-21.20	-31.76
5745MHz	Pass	8G	40G	PK	37.523G	6.10	-49.23	-49.23	-43.13	-27.00	-16.13
5785MHz	Pass	8G	40G	AV	11.575G	6.10	-66.34	-66.34	-60.24	-41.20	-19.04
5785MHz	Pass	8G	40G	AV	39.83G	6.10	-57.16	-57.16	-51.06	-41.20	-9.86
5785MHz	Pass	8G	40G	PK	11.586G	6.10	-59.20	-59.20	-53.10	-21.20	-31.90
5785MHz	Pass	8G	40G	PK	37.287G	6.10	-49.11	-49.11	-43.01	-27.00	-16.01
5825MHz	Pass	8G	40G	AV	11.661G	6.10	-66.33	-66.33	-60.23	-41.20	-19.03
5825MHz	Pass	8G	40G	AV	39.845G	6.10	-57.03	-57.03	-50.93	-41.20	-9.73
5825MHz	Pass	8G	40G	PK	11.649G	6.10	-59.73	-59.73	-53.63	-21.20	-32.43
5825MHz	Pass	8G	40G	PK	36.743G	6.10	-49.31	-49.31	-43.21	-27.00	-16.21
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	8G	40G	AV	11.478G	6.10	-66.47	-66.47	-60.37	-41.20	-19.17
5755MHz	Pass	8G	40G	AV	39.823G	6.10	-57.16	-57.16	-51.06	-41.20	-9.86
5755MHz	Pass	8G	40G	PK	11.534G	6.10	-59.72	-59.72	-53.62	-21.20	-32.42
5755MHz	Pass	8G	40G	PK	37.11G	6.10	-49.67	-49.67	-43.57	-27.00	-16.57
5795MHz	Pass	8G	40G	AV	11.596G	6.10	-66.40	-66.40	-60.30	-41.20	-19.10
5795MHz	Pass	8G	40G	AV	39.844G	6.10	-56.90	-56.90	-50.80	-41.20	-9.60
5795MHz	Pass	8G	40G	PK	11.614G	6.10	-59.08	-59.08	-52.98	-21.20	-31.78
5795MHz	Pass	8G	40G	PK	37.397G	6.10	-49.36	-49.36	-43.26	-27.00	-16.26
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	8G	40G	AV	11.542G	6.10	-66.25	-66.25	-60.15	-41.20	-18.95
5775MHz	Pass	8G	40G	AV	39.81G	6.10	-56.89	-56.89	-50.79	-41.20	-9.59
5775MHz	Pass	8G	40G	PK	11.606G	6.10	-59.46	-59.46	-53.36	-21.20	-32.16
5775MHz	Pass	8G	40G	PK	37.935G	6.10	-49.57	-49.57	-43.47	-27.00	-16.47

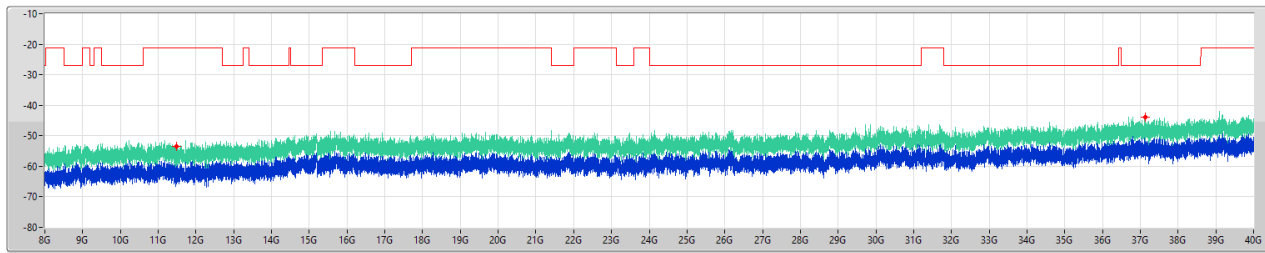
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE [PK]

5745MHz

25/12/2024



Limit,PK
EIRP,PK
Port 1

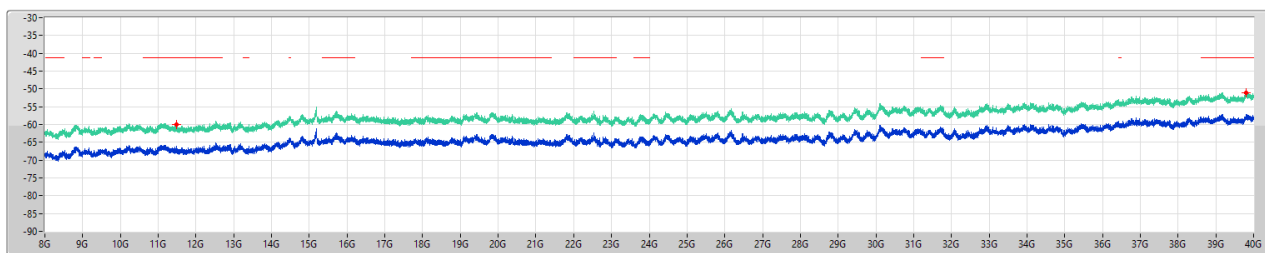
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
8G	40G	1M	PK	11.478G	-53.38	-21.20	-32.18	6.10	0.00	-59.48	-59.48
8G	40G	1M	PK	37.14G	-43.87	-27.00	-16.87	6.10	0.00	-49.97	-49.97

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

CSE [AV]

5745MHz

25/12/2024



Limit,AV
EIRP,AV
Port 1

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)
8G	40G	1M	AV	11.49G	-59.98	-41.20	-18.78	6.10	0.00	-66.08	-66.08
8G	40G	1M	AV	39.803G	-51.05	-41.20	-9.85	6.10	0.00	-57.15	-57.15