

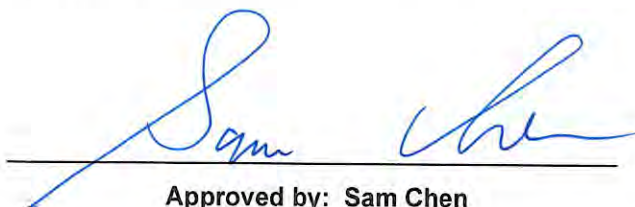


RADIO TEST REPORT

FCC ID : MSQ-RTAX5D00
Equipment : ROG Rapture Quad-band Gaming Router
Brand Name : ASUS
Model Name : GT-AXE16000
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 16, 2023, and testing was started from Aug. 18, 2023 and completed on Mar. 04, 2024. 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 variant 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

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.4

Page Number : 3 of 38
Issued Date : Apr. 01, 2024
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Output Power	PASS	-
3.3	15.407(a)	Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-
Note: Reference to Sporton Project No.: 1N0529-05.				

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:

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.

Reviewed by: Sam Chen**Report Producer: Wendy Pan**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4
5.15-5.25GHz	802.11n HT20	20	4
5.15-5.25GHz	802.11n HT20-BF	20	4
5.15-5.25GHz	802.11ac VHT20	20	4
5.15-5.25GHz	802.11ac VHT20-BF	20	4
5.15-5.25GHz	802.11ax HEW20	20	4
5.15-5.25GHz	802.11ax HEW20-BF	20	4
5.15-5.25GHz	802.11n HT40	40	4
5.15-5.25GHz	802.11n HT40-BF	40	4
5.15-5.25GHz	802.11ac VHT40	40	4
5.15-5.25GHz	802.11ac VHT40-BF	40	4
5.15-5.25GHz	802.11ax HEW40	40	4
5.15-5.25GHz	802.11ax HEW40-BF	40	4
5.15-5.25GHz	802.11ac VHT80	80	4
5.15-5.25GHz	802.11ac VHT80-BF	80	4
5.15-5.25GHz	802.11ax HEW80	80	4
5.15-5.25GHz	802.11ax HEW80-BF	80	4
5.15-5.25GHz	802.11ac VHT160	160	4
5.15-5.25GHz	802.11ac VHT160-BF	160	4
5.15-5.25GHz	802.11ax HEW160	160	4
5.15-5.25GHz	802.11ax HEW160-BF	160	4
5.25-5.35GHz	802.11a	20	4
5.25-5.35GHz	802.11n HT20	20	4
5.25-5.35GHz	802.11n HT20-BF	20	4
5.25-5.35GHz	802.11ac VHT20	20	4
5.25-5.35GHz	802.11ac VHT20-BF	20	4
5.25-5.35GHz	802.11ax HEW20	20	4
5.25-5.35GHz	802.11ax HEW20-BF	20	4
5.25-5.35GHz	802.11n HT40	40	4
5.25-5.35GHz	802.11n HT40-BF	40	4
5.25-5.35GHz	802.11ac VHT40	40	4
5.25-5.35GHz	802.11ac VHT40-BF	40	4
5.25-5.35GHz	802.11ax HEW40	40	4
5.25-5.35GHz	802.11ax HEW40-BF	40	4
5.25-5.35GHz	802.11ac VHT80	80	4
5.25-5.35GHz	802.11ac VHT80-BF	80	4
5.25-5.35GHz	802.11ax HEW80	80	4
5.25-5.35GHz	802.11ax HEW80-BF	80	4
5.25-5.35GHz	802.11ac VHT160	160	4



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT160-BF	160	4
5.25-5.35GHz	802.11ax HEW160	160	4
5.25-5.35GHz	802.11ax HEW160-BF	160	4
5.47-5.725GHz	802.11a	20	4
5.47-5.725GHz	802.11n HT20	20	4
5.47-5.725GHz	802.11n HT20-BF	20	4
5.47-5.725GHz	802.11ac VHT20	20	4
5.47-5.725GHz	802.11ac VHT20-BF	20	4
5.47-5.725GHz	802.11ax HEW20	20	4
5.47-5.725GHz	802.11ax HEW20-BF	20	4
5.47-5.725GHz	802.11n HT40	40	4
5.47-5.725GHz	802.11n HT40-BF	40	4
5.47-5.725GHz	802.11ac VHT40	40	4
5.47-5.725GHz	802.11ac VHT40-BF	40	4
5.47-5.725GHz	802.11ax HEW40	40	4
5.47-5.725GHz	802.11ax HEW40-BF	40	4
5.47-5.725GHz	802.11ac VHT80	80	4
5.47-5.725GHz	802.11ac VHT80-BF	80	4
5.47-5.725GHz	802.11ax HEW80	80	4
5.47-5.725GHz	802.11ax HEW80-BF	80	4
5.47-5.725GHz	802.11ac VHT160	160	4
5.47-5.725GHz	802.11ac VHT160-BF	160	4
5.47-5.725GHz	802.11ax HEW160	160	4
5.47-5.725GHz	802.11ax HEW160-BF	160	4
5.725-5.85GHz	802.11a	20	4
5.725-5.85GHz	802.11n HT20	20	4
5.725-5.85GHz	802.11n HT20-BF	20	4
5.725-5.85GHz	802.11ac VHT20	20	4
5.725-5.85GHz	802.11ac VHT20-BF	20	4
5.725-5.85GHz	802.11ax HEW20	20	4
5.725-5.85GHz	802.11ax HEW20-BF	20	4
5.725-5.85GHz	802.11n HT40	40	4
5.725-5.85GHz	802.11n HT40-BF	40	4
5.725-5.85GHz	802.11ac VHT40	40	4
5.725-5.85GHz	802.11ac VHT40-BF	40	4
5.725-5.85GHz	802.11ax HEW40	40	4
5.725-5.85GHz	802.11ax HEW40-BF	40	4
5.725-5.85GHz	802.11ac VHT80	80	4
5.725-5.85GHz	802.11ac VHT80-BF	80	4
5.725-5.85GHz	802.11ax HEW80	80	4



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW80-BF	80	4

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.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

For EUT 5

Ant.	Port				Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz UNII 1& UNII 2A	WLAN 5GHz UNII 2C& UNII 3	WLAN 6GHz					
1	2	2	-	-	WALSIN	RFPCA311406IMLB901	PCB	I-PEX	Note2
2	1	1	-	-	WALSIN	RFDPA181121IMLB901	Dipole	I-PEX	
3	4	4	-	-	WALSIN	RFDPA181121IMLB902	Dipole	I-PEX	
4	3	3	-	-	WALSIN	RFDPA181105IMLB901	Dipole	I-PEX	
5	-	-	4	-	WALSIN	RFPCA191412IM5B901	PCB	I-PEX	
6	-	-	3	-	WALSIN	RFDPA181108IM5B901	Dipole	I-PEX	
7	-	-	2	-	WALSIN	RFDPA181119IM5B901	Dipole	I-PEX	
8	-	-	1	-	WALSIN	RFDPA181125IM5B901	Dipole	I-PEX	
9	-	-	-	4	WALSIN	RFPCA170920IM6B901	PCB	I-PEX	
10	-	-	-	3	WALSIN	RFPCA222024IMLB901	PCB	I-PEX	
11	-	-	-	2	WALSIN	RFDPA181119IM6B901	Dipole	I-PEX	
12	-	-	-	1	WALSIN	RFDPA181110IM6B901	Dipole	I-PEX	

Note1: The above information was declared by manufacturer.

Note2:

Mode 1: 2G5GL-external antenna Vertical

Band (MHz)	2400-2483.5	5150-5250	5250-5350
Frequency (Hz)	2.45G	5.2G	5.3G
Ant. 1 Max Gain (dBi)	2.46	3.34	3.41
Ant. 2 Max Gain (dBi)	2.3	4.72	3.84
Ant. 3 Max Gain (dBi)	3.43	3.61	3.43
Ant. 4 Max Gain (dBi)	2.12	4.5	4.7
DG [1SS] (dBi)	4.53	6.17	6.32
DG [2SS] (dBi)	3.43	4.72	4.7
DG [4SS] (dBi)	3.43	4.72	4.7

Mode 2: 2G5GL-external antenna Horizontal

Band (MHz)	2400-2483.5	5150-5250	5250-5350
Frequency (Hz)	2.45G	5.2G	5.3G
Ant. 1 Max Gain (dBi)	2.46	3.34	3.41
Ant. 2 Max Gain (dBi)	3.54	4.16	4.71
Ant. 3 Max Gain (dBi)	4.36	3.44	3.32
Ant. 4 Max Gain (dBi)	3.47	4.31	4.69
DG [1SS] (dBi)	5	4.76	4.75
DG [2SS] (dBi)	4.36	4.31	4.71
DG [4SS] (dBi)	4.36	4.31	4.71

**Mode 3: 5GH-external antenna Vertical**

Band (MHz)	5470-5725	5725-5850
Frequency (Hz)	5.6G	5.785G
Ant. 5 Max Gain (dBi)	2.56	1.18
Ant. 6 Max Gain (dBi)	4.83	4.59
Ant. 7 Max Gain (dBi)	4.4	4.62
Ant. 8 Max Gain (dBi)	3.82	3.91
DG [1SS] (dBi)	6.97	6.48
DG [2SS] (dBi)	4.83	4.62
DG [4SS] (dBi)	4.83	4.62

Mode 4: 5GH-external antenna Horizontal

Band (MHz)	5470-5725	5725-5850
Frequency (Hz)	5.6G	5.785G
Ant. 5 Max Gain (dBi)	2.56	1.18
Ant. 6 Max Gain (dBi)	4.84	4.77
Ant. 7 Max Gain (dBi)	3.62	4.56
Ant. 8 Max Gain (dBi)	4.15	4.12
DG [1SS] (dBi)	5.83	5.27
DG [2SS] (dBi)	4.84	4.77
DG [4SS] (dBi)	4.84	4.77

Mode 5: 6G-external antenna Vertical

Band (MHz)	6175	6475	6695	6995
Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 9 Max Gain (dBi)	3.1	3.04	2.87	2.01
Ant. 10 Max Gain (dBi)	2.8	2.63	3.57	4.12
Ant. 11 Max Gain (dBi)	4.49	3.97	4.38	4.34
Ant. 12 Max Gain (dBi)	4.65	3.76	4.1	4.29
DG [1SS] (dBi)	5.66	5.2	5.58	5.35
DG [2SS] (dBi)	4.65	3.97	4.38	4.34
DG [4SS] (dBi)	4.65	3.97	4.38	4.34

Mode 6: 6G-external antenna Horizontal

Band (MHz)	6175	6475	6695	6995
Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 9 Max Gain (dBi)	3.1	3.04	2.87	2.01
Ant. 10 Max Gain (dBi)	2.8	2.63	3.57	4.12
Ant. 11 Max Gain (dBi)	4.88	4.49	4.92	4.59
Ant. 12 Max Gain (dBi)	4.53	4.43	4.26	4.31
DG [1SS] (dBi)	4.99	4.63	4.64	4.41
DG [2SS] (dBi)	4.88	4.49	-	-
DG [4SS] (dBi)	4.88	4.49	-	-



Note3: The directional gain is measured which follows the procedure of KDB 662911 D03.

Only the highest gain antenna was selected from each different antenna mode of antenna to test and record in this report.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**1.1.3 EUT Operational Condition**

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz and ax in 6GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	Mtool 3.2.1.4			

Note: The above information was declared by manufacturer.

1.1.4 Table for Components Source Information

Component	Main Source	Second Source
5G pre filter	Brand: Qorvo Model: QPQ1904	-
DDR4	Brand: SAMSUNG Density: 512MB	Brand: SAMSUNG Density: 1GB
Transformer of 1Gbps LAN	Brand: NETSWAP Model: NS777202	Brand: MINGTEK Model: HN8001VG
MLCC on the path of the CPU (Location: C124, C126, C127, C128)	Brand: WAL SIN Model: 0201X104K160CT	Brand: TAIYO YUDEN Model: EMK063BJ104KP-F

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Information

EUT	5G pre filter	DDR4	Transformer of 1Gbps LAN	MLCC on the path of the CPU (Location: C124, C126, C127, C128)
EUT 1	Second Source	Main Source	Main Source	Main Source
EUT 2	Main Source	Main Source	Main Source	Main Source
EUT 3	Second Source	Second Source	Main Source	Main Source
EUT 4	Second Source	Second Source	Second Source	Main Source
EUT 5	Main Source	Second Source	Main Source	Second Source

Note 1: From the above EUTs, EUT 5 was selected to test all items, EUT 4 was selected to test Unwanted Emissions below 1GHz test and their data were recorded in this report.

Note2: The above information was declared by manufacturer.

1.1.6 Table for EUT Supports Function

Function	Support Type	Remark
AP Router	Master	Support 2.4GHz/5GHz/6GHz
Bridge	Slave without radar detection	Support 2.4GHz/5GHz
Repeater	Master	Support 2.4GHz/5GHz
Mesh	Master	Support 2.4GHz/5GHz/6GHz

Note: The above information was declared by manufacturer.

1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR1N0529AB

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Adding a second transformer source of 1Gbps LAN and combination as EUT 4. (Brand name: MINGTEK / Model name: HN8001VG)	Unwanted Emissions below 1GHz test.
2. Adding EUT 5, the difference with EUT 3 is the following: a. With 5G pre filter. b. Add the second source for MLCC on the path of the CPU (Location: C124, C126, C127, C128). c. Updating the measurement method of antenna gain for EUT 5.	1. Emission Bandwidth 2. Maximum Output Power 3. Power Spectral Density 4. Unwanted Emissions Evaluating the affected frequencies only.
3. Removing Manufacturer name and address. 4. Updating the Components Source information of main source (512MB) and Second source (1GB) for DDR4.	After evaluating, it does not affect the test.



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 D03 v01
- ♦ 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
Radiated (Below 1GHz)	03CH05-CB	Jackson Peng	21.8~23.3 / 59~60	Aug. 18, 2023
	03CH06-CB		21.9-22.4 / 55-58	Mar. 04, 2024
Radiated (Above 1GHz)	03CH05-CB	Jackson Peng	21.9-22.4 / 55-58	Jan. 08, 2024~ Jan. 22, 2024
	03CH06-CB		21.9-22.4 / 55-58	
RF Conducted	TH03-CB	Nyle Chang	24.5-24.8 / 52-62	Jan. 27, 2024~ Jan. 31, 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
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 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	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For UNII 1 and UNII 2A:

Mode
802.11ax HEW20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
802.11ax HEW40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5310MHz
802.11ax HEW80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11ax HEW160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

**For UNII 2C and UNII 3:**

Mode
802.11a_Nss1,(6Mbps)_4TX
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
802.11ax HEW20-BF_Nss1,(MCS0)_4TX
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11ax HEW40-BF_Nss1,(MCS0)_4TX
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11ax HEW80-BF_Nss1,(MCS0)_4TX
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11ax HEW160-BF_Nss1,(MCS0)_4TX
5570MHz

Note1: There are two modes of EUT for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.

Note2: Evaluated HEW20/HEW40/HEW80/HEW160 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
Test Mode	EUT 5

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
	1. After evaluating, the worst case was found at Z axis. So the measurement will follow this same test configuration.
	2. The EUT has two types for setting the antenna. One is antenna in horizontal and the other is antenna in vertical,
	3. The EUT was performed at 2.4GHz, UNII 1+UNII 2A, UNII 2C+UNII 3, 6GHz, the worst case was found at 2.4GHz. Thus, the measurement will follow this same test configuration.
	4. The EUT was performed at Adapter 1, Adapter 3 and Adapter 4, the worst case was found at Adapter 1. Thus, the measurement will follow this same test configuration.
1	EUT 4 in Z axis + antenna in horizontal + Adapter 1 + WLAN 2.4GHz
2	EUT 5 in Z axis + antenna in horizontal + Adapter 1 + WLAN 2.4GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	1. The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis for UNII 1 and UNII 2A and at X axis for UNII 2C and UNII 3. So the measurement will follow this same test configuration.
	2. The EUT has two types for setting the antenna. One is antenna in horizontal and the other is antenna in vertical, and the worst case was found at antenna in vertical. So the measurement will follow this same test configuration.
1	EUT 5 in Z axis + antenna in vertical for UNII 1 and UNII 2A
2	EUT 5 in X axis + antenna in vertical for UNII 2C and UNII 3



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 5 + WLAN 2.4GHz + WLAN 5GHz (UNII 2C/ UNII 3) + WLAN 6GHz
2	EUT 5 + WLAN 5GHz (UNII 1/ UNII 2A) + WLAN 5GHz (UNII 2C/ UNII 3) + WLAN 6GHz
Refer to Sporton Test Report No.: FA1N0529-07 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 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[10.0.19043.1320]、LanTest20(version 2.0.0.2).
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Router and transmit duty cycle no less than 98%.



2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	Remark
Adapter 1	AcBel	ADD011	INPUT: 100-240V~ 1.7A, 50-60Hz OUTPUT: +19.5V, 3.33A, 65.0W MAX.	With the DC cable: Non-shielded, 1.5m
Adapter 2	AcBel	ADD011	INPUT: 100-240V~ 1.7A, 50-60Hz OUTPUT: +19.5V, 3.33A, 65.0W MAX.	With the DC cable: Non-shielded, 1.5m
Adapter 3	DELTA	ADP-65GD	INPUT: AC100-240V ~ 50-60Hz, 1.5A OUTPUT: +19V, 3.42A.	With the DC cable: Non-shielded, 1.8m
Adapter 4	DELTA	ADP-65DE B	INPUT: 100-240V~1.5A, 50-60Hz OUTPUT: 19.0V, 3.42A, 65.0W	With the DC cable: Non-shielded, 1.5m
Adapter 5	DELTA	ADP-65DE B	INPUT: 100-240V ~ 1.5A, 50-60Hz OUTPUT: 19.0V, 3.42A, 65.0W	With the DC cable: Non-shielded, 1.5m
Others				
RJ-45 cable*1: Shielded, 1.5m				
Power cord*1: Non-shielded, 0.9m				

Note1: Adapter 1 & Adapter 2 and Adapter 4 & Adapter 5 are identical except for the S/N; Therefore, Adapter 1 and Adapter 4 were selected to test and recorded in this report.

Note2: Refer to photographs of EUT for the detail information of difference between Adapter 1 & Adapter 2 and Adapter 4 & Adapter 5.

2.5 Support Equipment

For Radiated (below 1GHz) and Radiated (above 1GHz / Non-beamforming mode):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

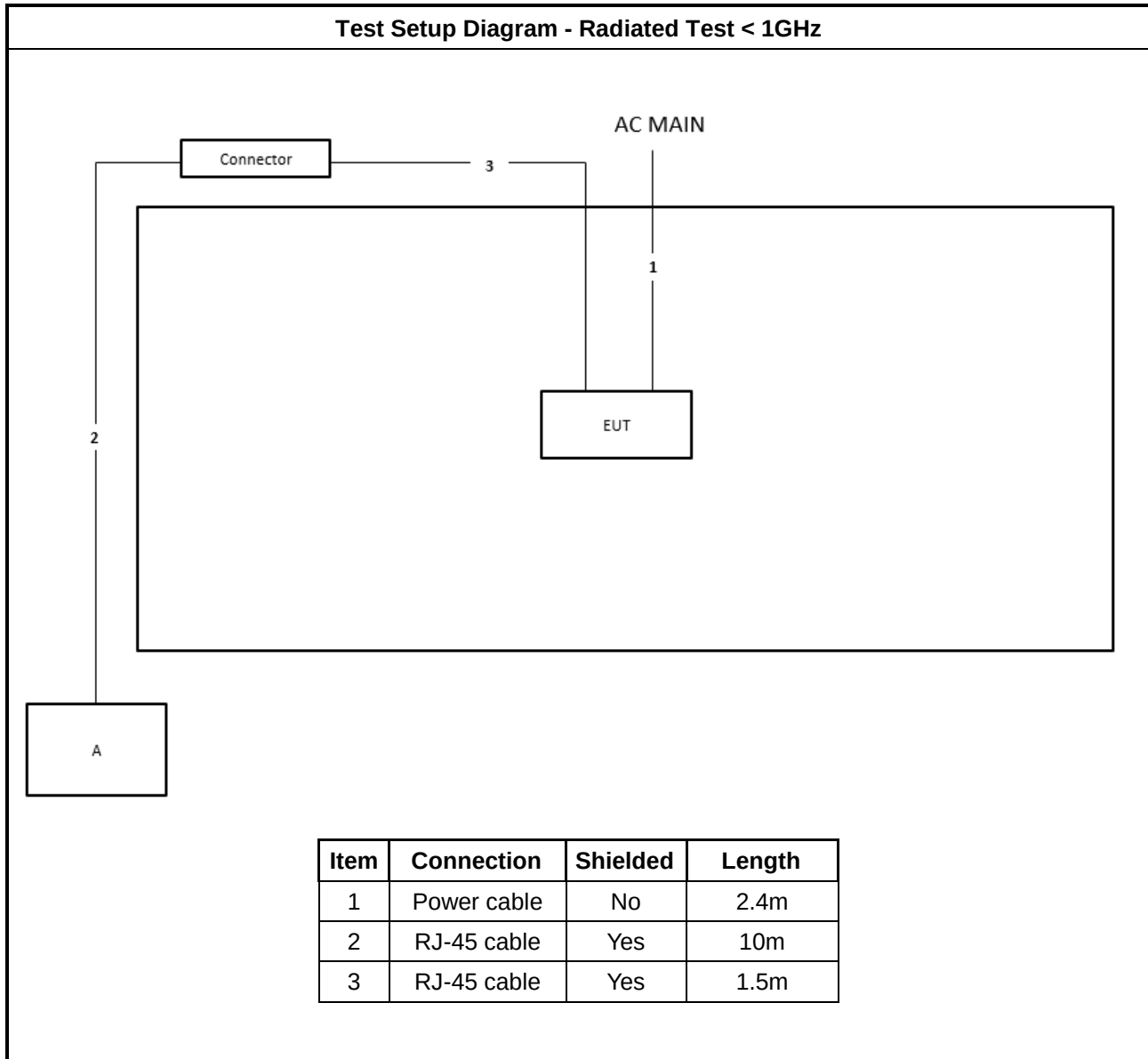
For Radiated (above 1GHz / Beamforming mode):

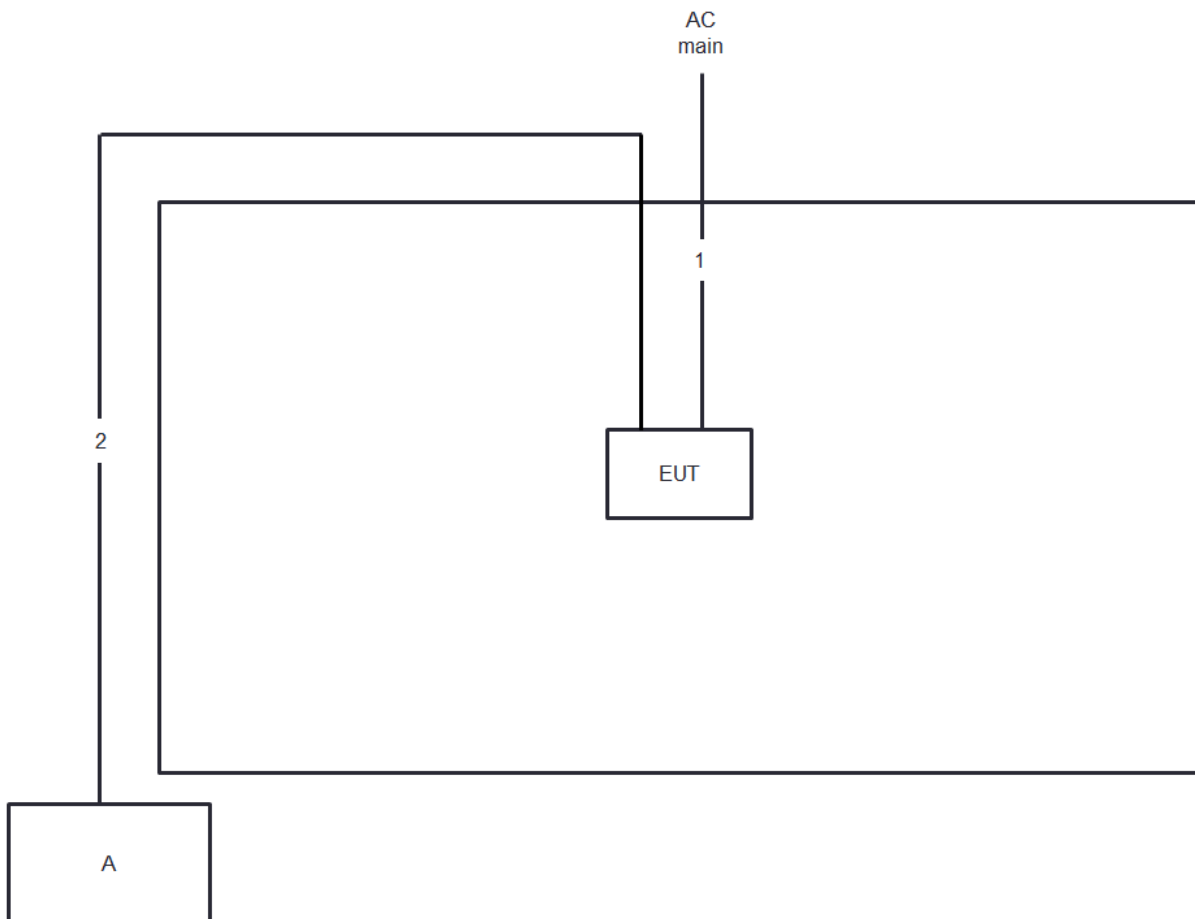
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Router	ASUS	GT-AXE16000	MSQ-RTAX5D00

For RF Conducted:

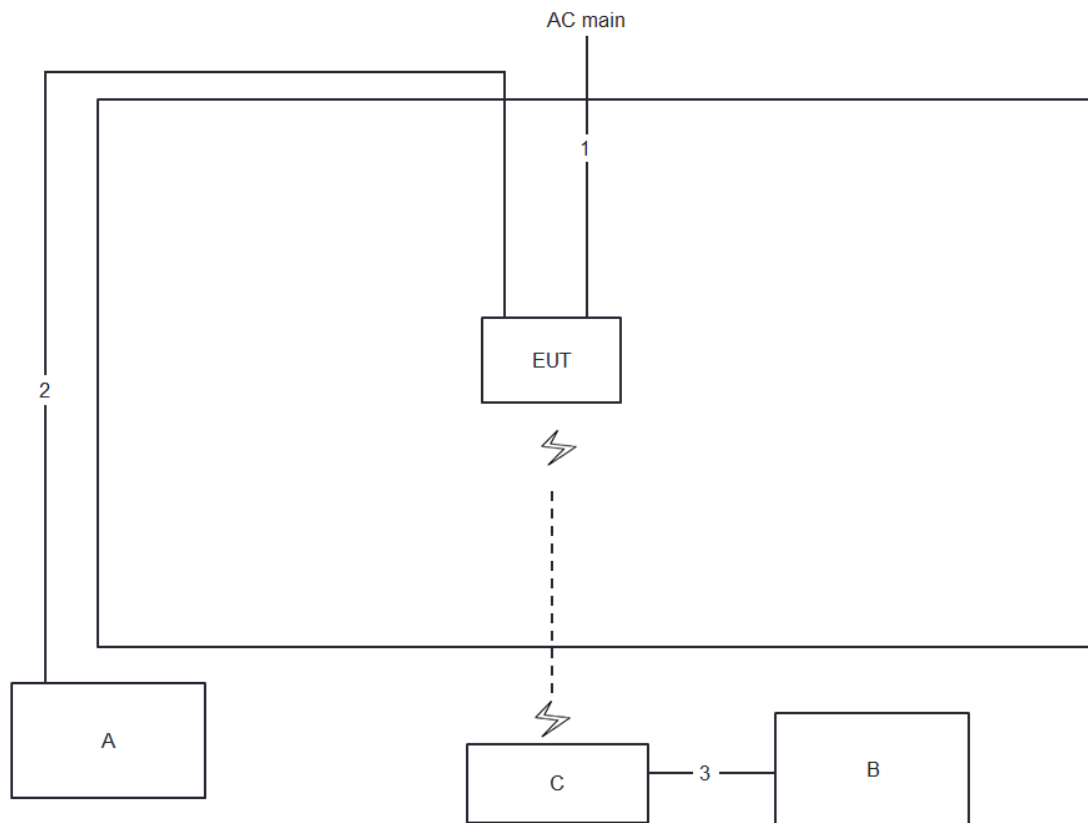
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode


Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / beamforming mode


Item	Connection	Shielded	Length
1	Power cable	No	2.4m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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 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 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 ≥ 500kHz.
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 ≥ 500kHz.

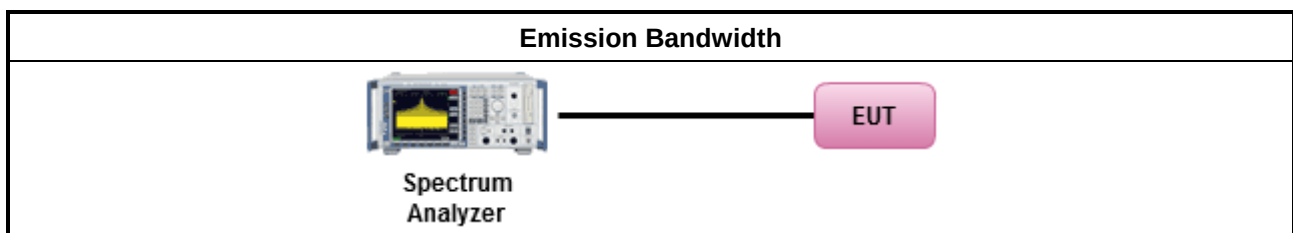
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup





3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Output Power

3.2.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ 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:	
	- 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.
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.	

3.2.2 Measuring Instruments

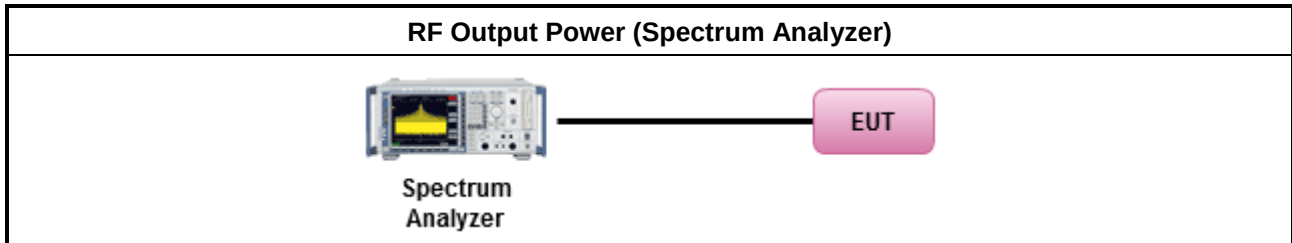
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

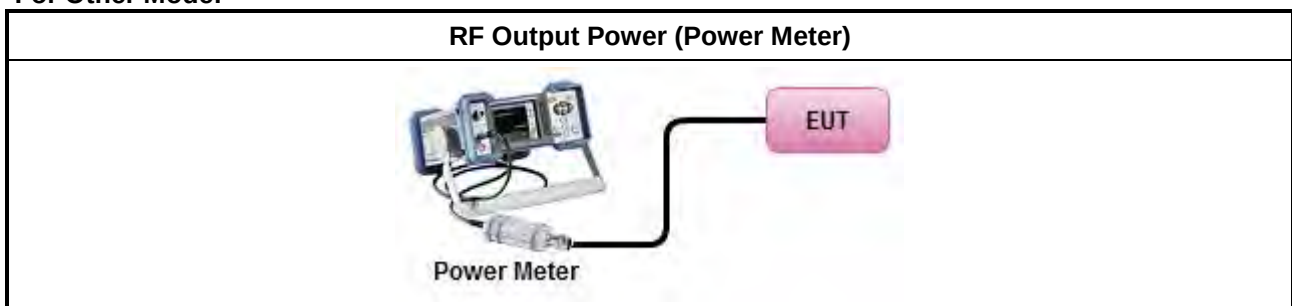
Test Method	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty 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.

3.2.4 Test Setup

For Straddle channel Mode:



For Other Mode:



3.2.5 Test Result of Maximum Output Power

Refer as Appendix B



3.3 Power Spectral Density

3.3.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ 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:	
☐	- 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.
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.	



3.3.2 Measuring Instruments

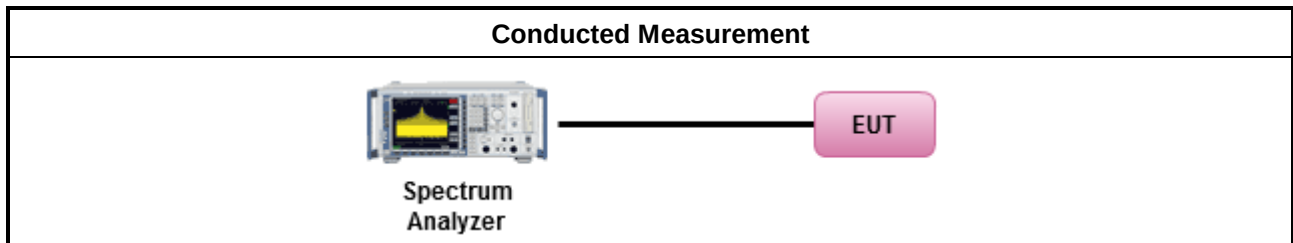
Refer a test equipment and calibration data table in this test report.

3.3.3 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, F5) 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.	

Test Method	
	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 Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 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).	

3.4.2 Measuring Instruments

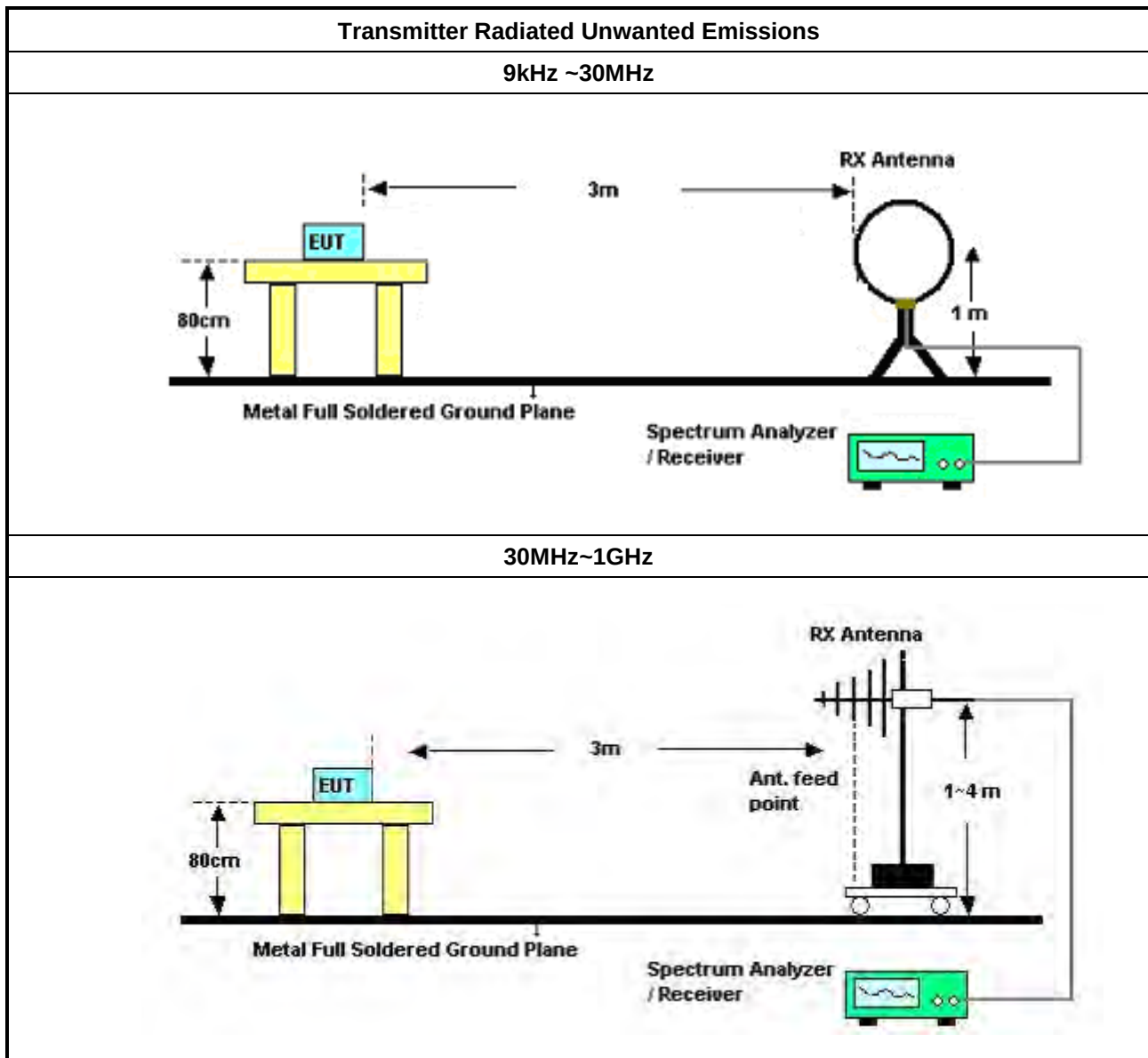
Refer a test equipment and calibration data table in this test report.

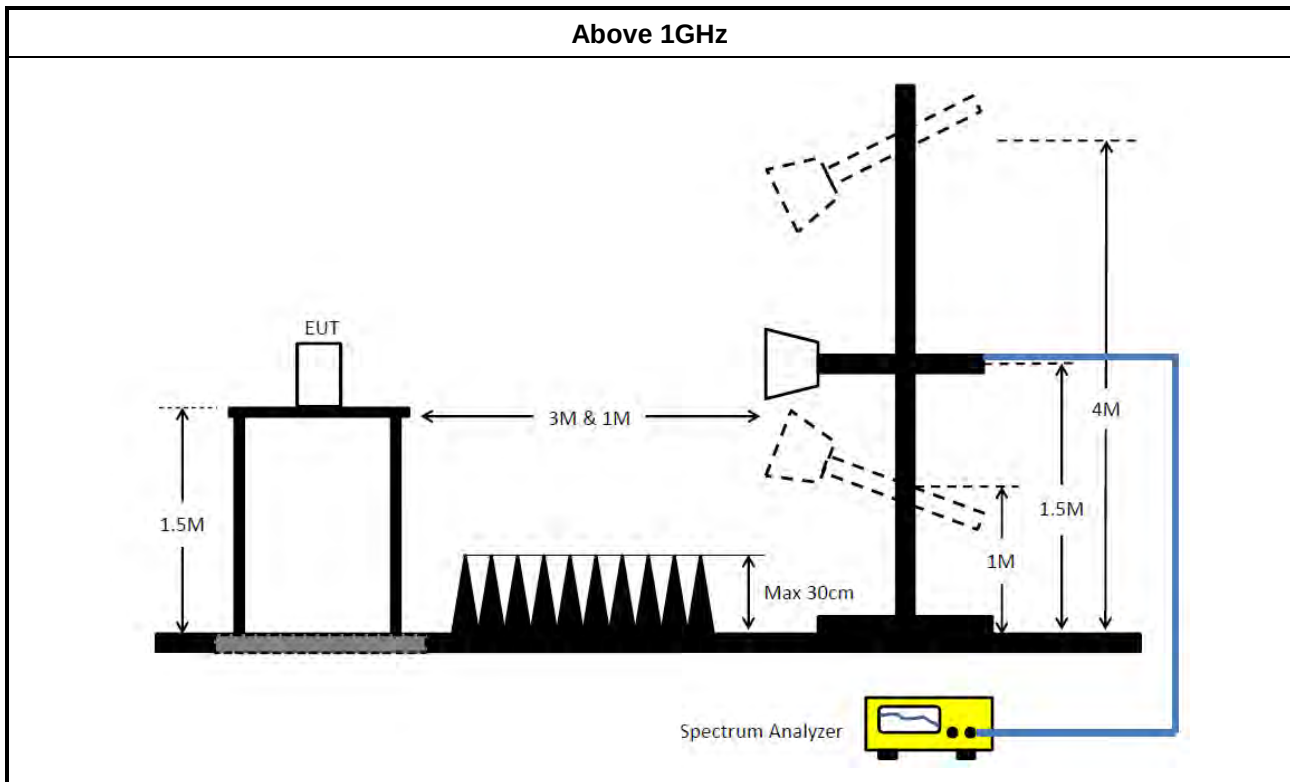


3.4.3 Test Procedures

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.	

3.4.4 Test Setup





3.4.5 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.

3.4.6 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 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.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 29, 2023	Sep. 28, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Aug. 16, 2023	Aug. 15, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 03, 2023	Aug. 02, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 30, 2023	Jul. 29, 2024	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 03, 2023	Nov. 02, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 22, 2023	Dec. 21, 2024	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.

For UNII 1 and UNII 2A:
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.245M	19.302M	19M3D1D	20.625M	18.959M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	57.86M	37.863M	37M9D1D	40.15M	37.563M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	90.86M	77.561M	77M6D1D	80.3M	77.081M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	80.16M	77.727M	77M7D1D	79.84M	76.936M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	24.035M	19.223M	19M2D1D	20.13M	18.895M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	51.37M	37.934M	37M9D1D	39.16M	37.689M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	85.14M	77.098M	77M1D1D	80.3M	76.813M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	80.88M	77.319M	77M3D1D	79.92M	77.121M

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

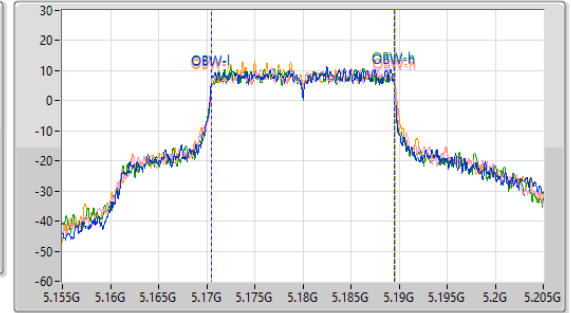
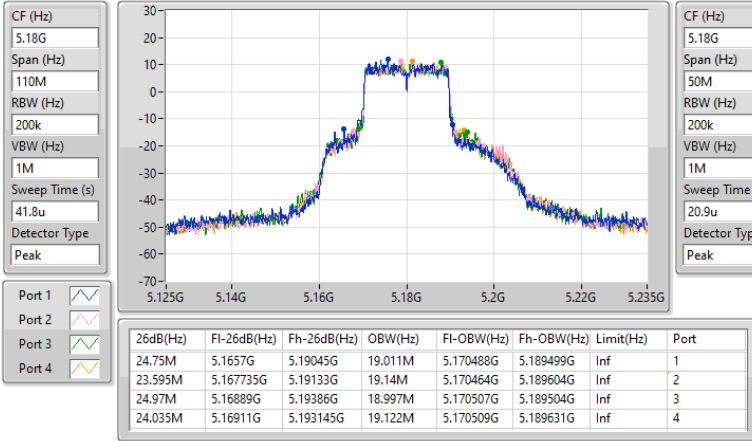
Result

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.75M	19.011M	23.595M	19.14M	24.97M	18.997M	24.035M	19.122M
5200MHz	Pass	Inf	21.23M	19.078M	22.33M	19.05M	23.65M	19.096M	23.815M	19.302M
5240MHz	Pass	Inf	21.89M	18.959M	20.625M	19.036M	21.45M	19.117M	25.245M	19.064M
5260MHz	Pass	Inf	20.735M	18.951M	21.01M	18.926M	20.845M	18.983M	21.505M	19.003M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.707M	46.53M	37.858M	41.47M	37.859M	46.64M	37.715M
5230MHz	Pass	Inf	40.15M	37.863M	41.25M	37.563M	40.37M	37.789M	57.86M	37.825M
5310MHz	Pass	Inf	42.46M	37.896M	40.37M	37.934M	51.37M	37.75M	40.04M	37.745M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.96M	77.561M	90.86M	77.081M	80.3M	77.332M	80.74M	77.297M
5290MHz	Pass	Inf	85.14M	76.864M	80.3M	76.813M	82.5M	77.098M	84.92M	76.985M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80M	76.936M	80M	76.997M	79.84M	77.03M	80.16M	77.727M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80M	77.233M	80.24M	77.121M	79.92M	77.126M	80.88M	77.319M

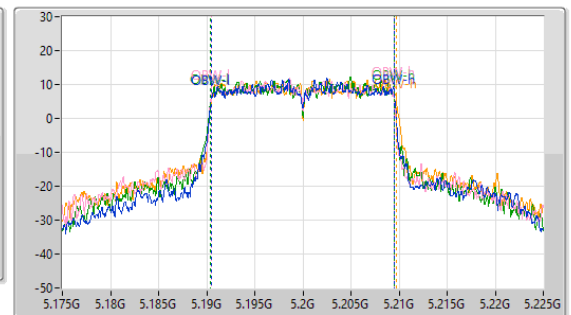
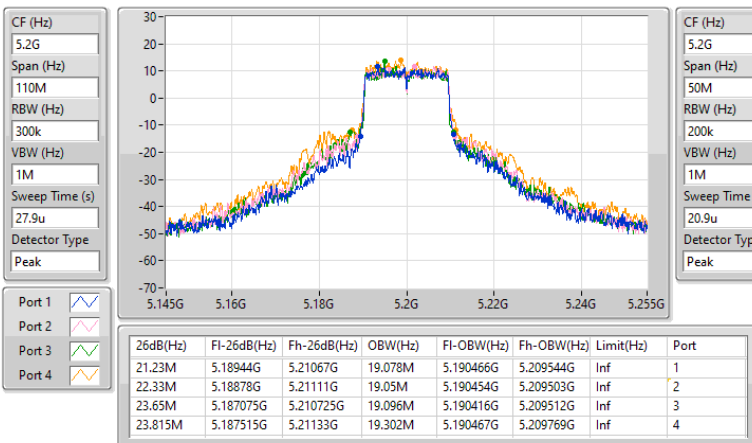
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

31/01/2024

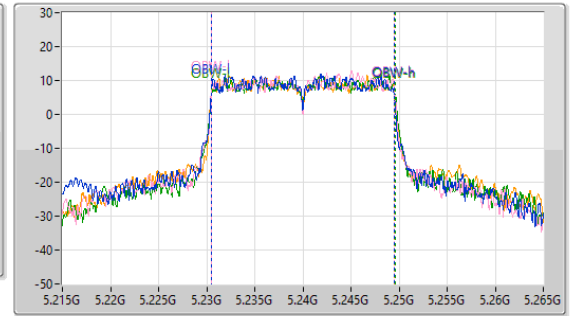
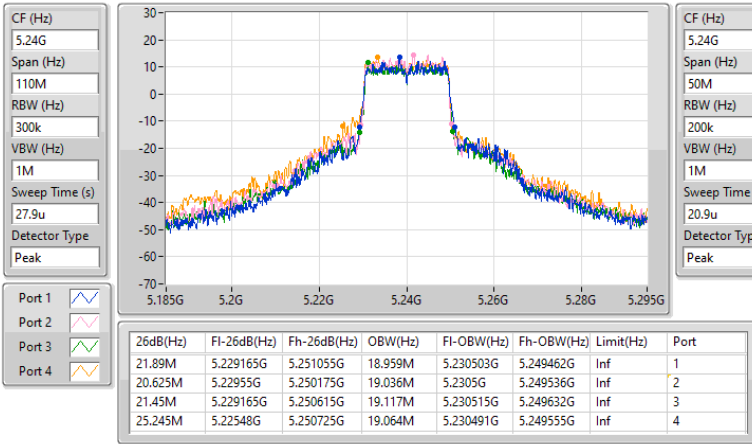

5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

31/01/2024

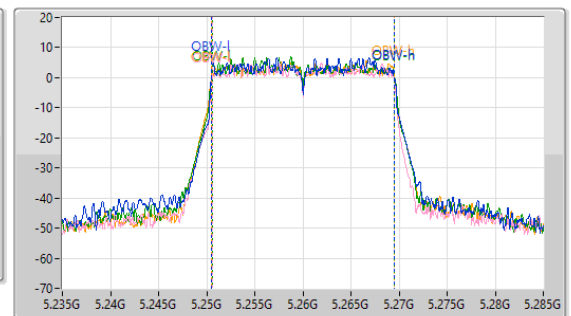
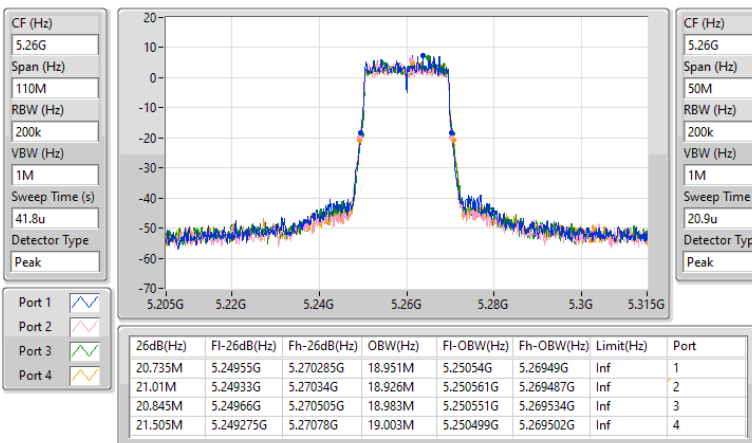


5.15-5.25GHz_802.11ax_HEW20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

31/01/2024

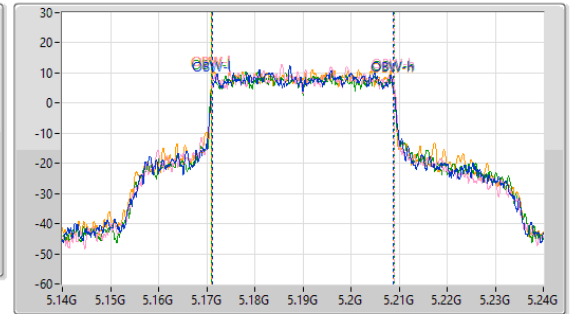
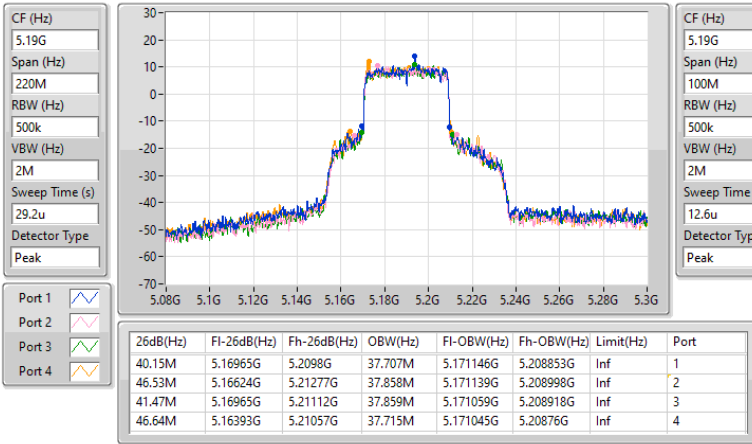

5.25-5.35GHz_802.11ax_HEW20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

31/01/2024

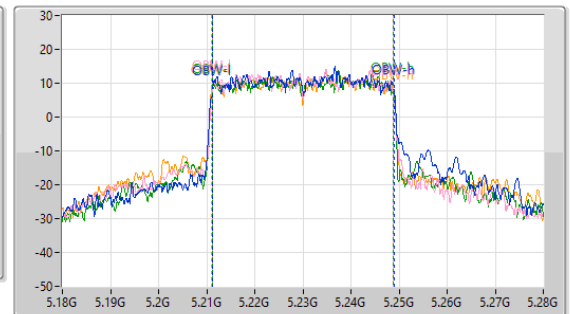
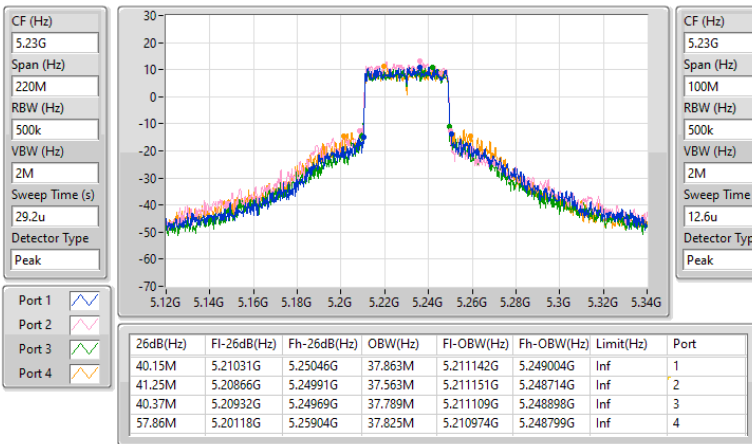


5.15-5.25GHz_802.11ax_HEW40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

31/01/2024


5.15-5.25GHz_802.11ax_HEW40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

31/01/2024

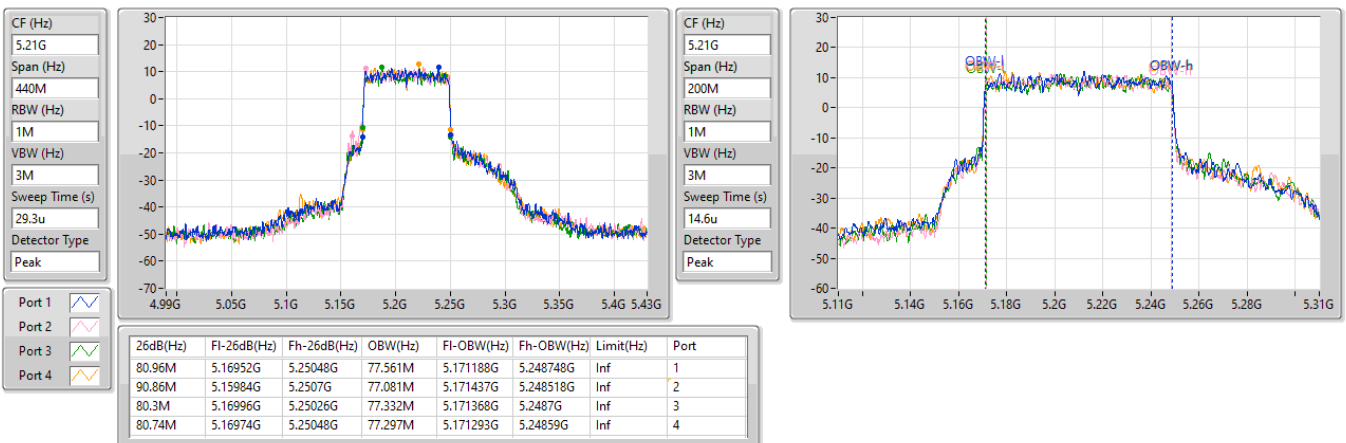


5.25-5.35GHz_802.11ax_HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

31/01/2024

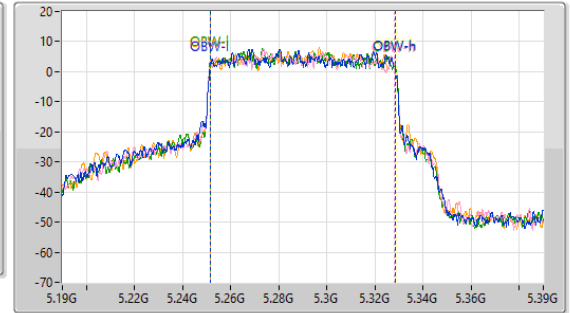
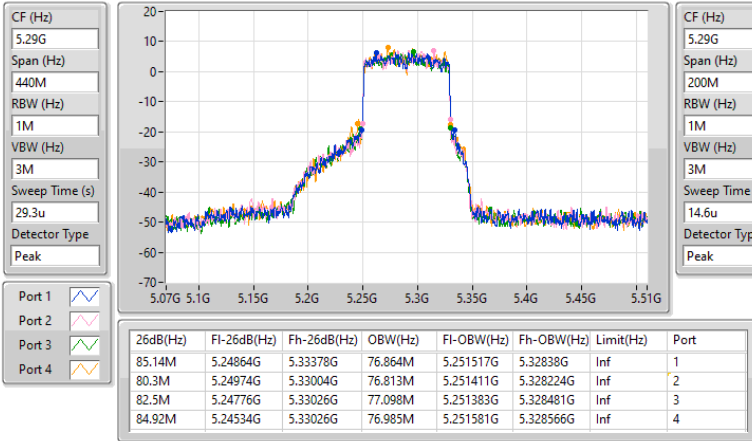

5.15-5.25GHz_802.11ax_HEW80-BF_Nss1,(MCS0)_4TX
EBW
5210MHz

31/01/2024

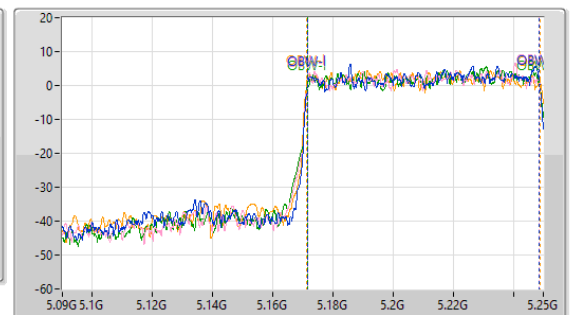
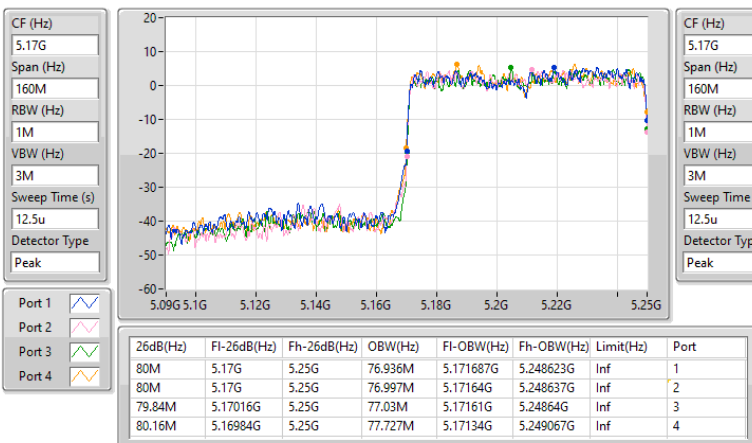


5.25-5.35GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

31/01/2024


5.15-5.25GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

31/01/2024

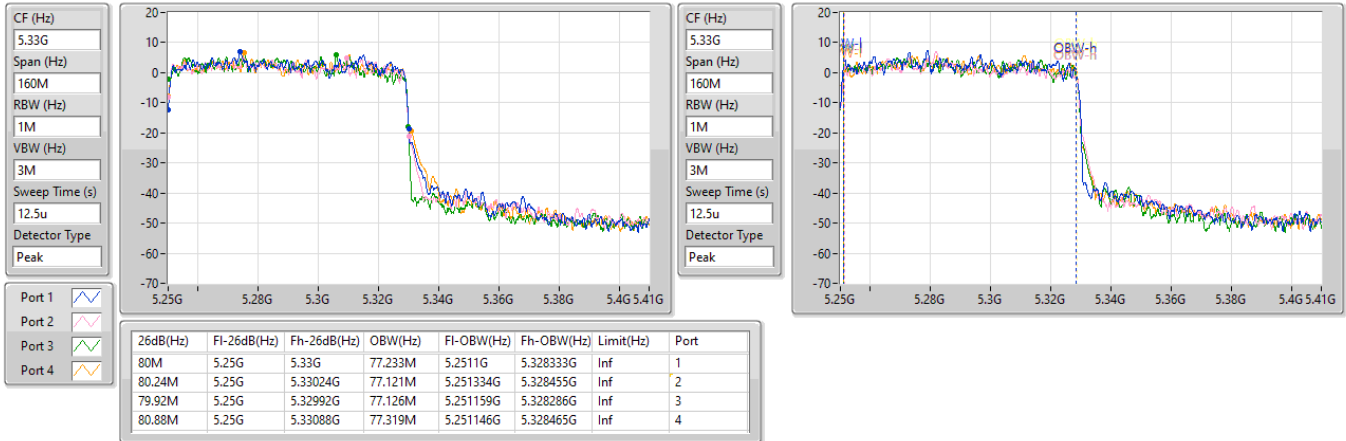


5.25-5.35GHz_802.11ax_HEW160-BF_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

31/01/2024



**For UNII 2C and UNII 3:****Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.385M	16.965M	17M0D1D	15.135M	13.274M

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

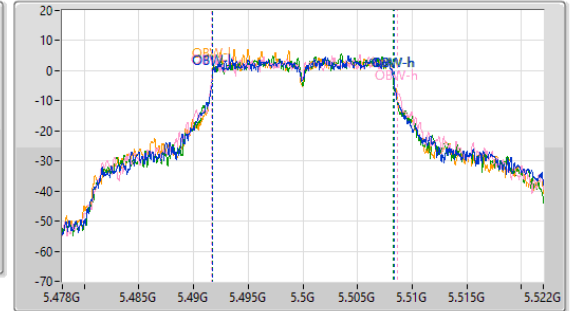
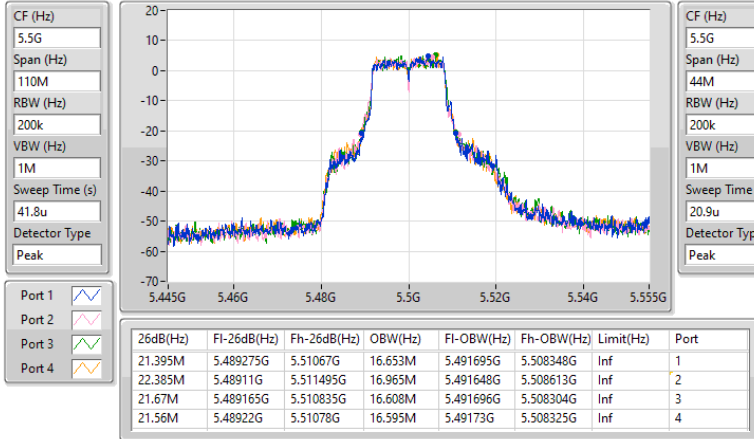
Result

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)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.395M	16.653M	22.385M	16.965M	21.67M	16.608M	21.56M	16.595M
5580MHz	Pass	Inf	20.845M	16.617M	20.57M	16.592M	19.965M	16.491M	20.68M	16.655M
5700MHz	Pass	Inf	20.35M	16.712M	20.79M	16.642M	21.23M	16.556M	20.68M	16.548M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.135M	13.311M	15.66M	13.281M	15.165M	13.432M	15.3M	13.274M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	3.982M	3.12M	3.867M	3.2M	3.97M	3.26M	4.061M

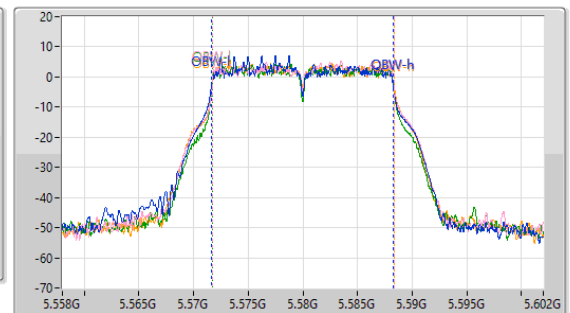
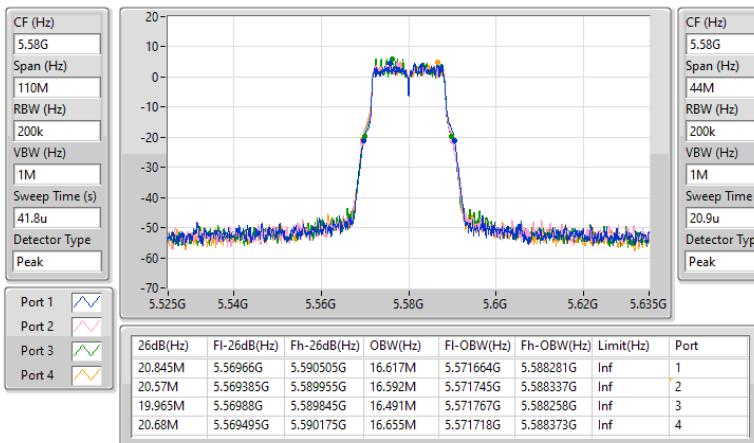
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

31/01/2024

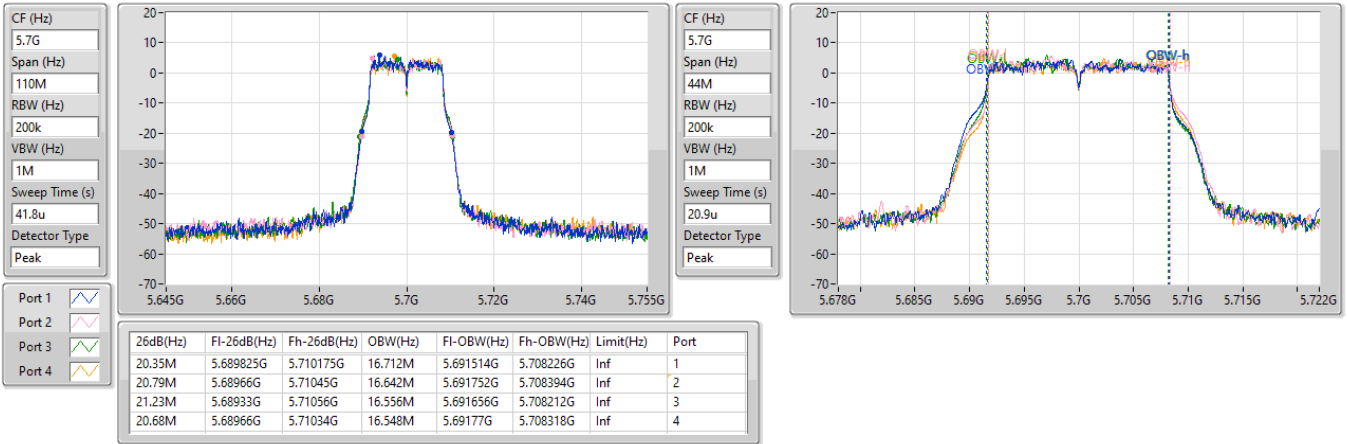

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

31/01/2024

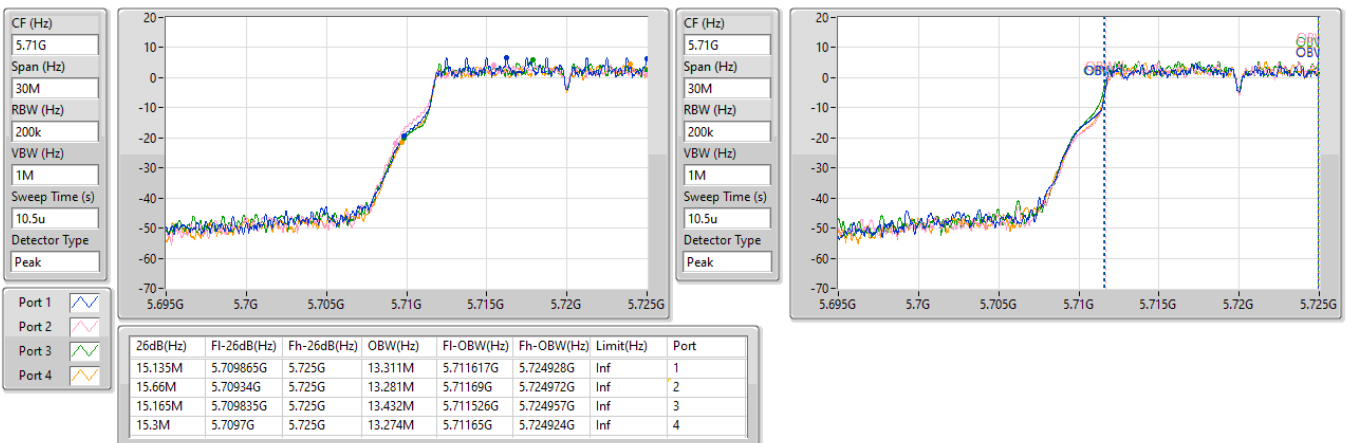


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

31/01/2024

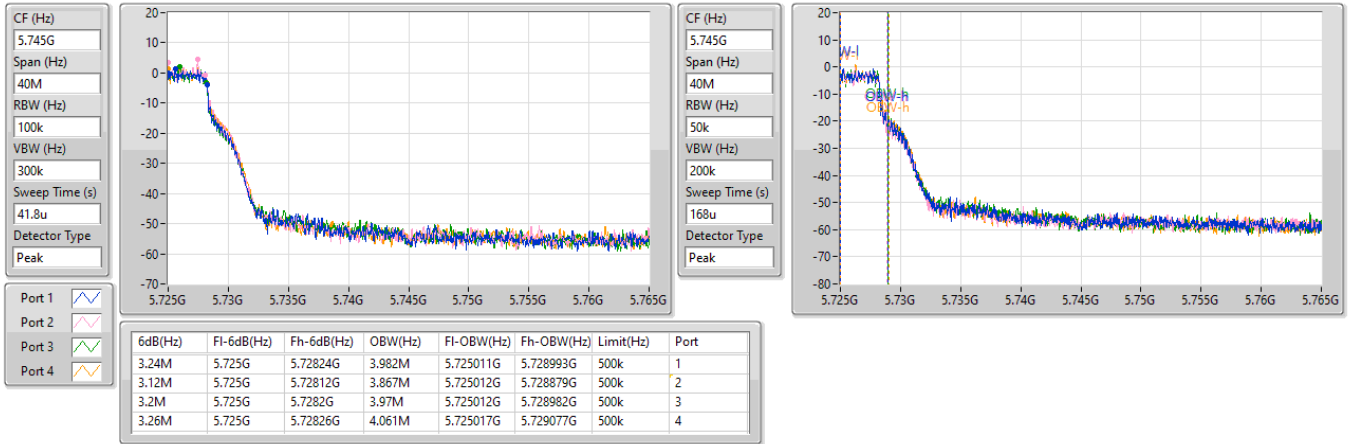

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

31/01/2024

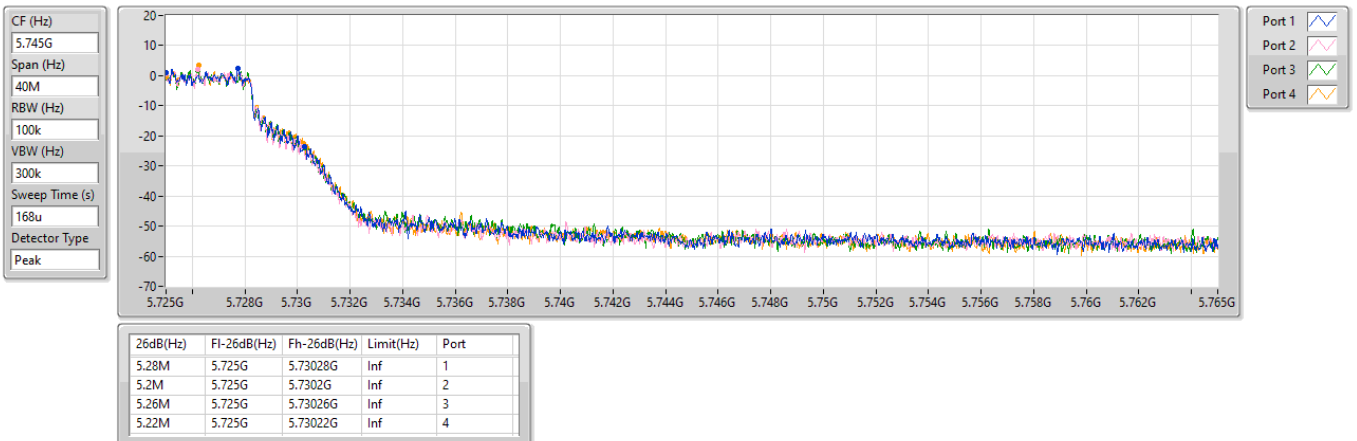


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/01/2024


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/01/2024



For UNII 2C and UNII 3:
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.89M	19.123M	19M1D1D	15.255M	14.473M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	42.35M	38.01M	38M0D1D	34.405M	33.642M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.62M	77.455M	77M5D1D	75M	73.015M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	162.8M	156.077M	156MD1D	161.92M	155.349M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.195M	19.14M	19M1D1D	4.48M	4.522M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	38.06M	37.896M	37M9D1D	3.28M	4.042M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.34M	77.681M	77M7D1D	3.66M	4.05M

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	20.79M	19.123M	21.285M	19.049M	21.285M	19.074M	21.89M	18.997M
5580MHz	Pass	Inf	20.955M	19.052M	20.515M	18.988M	20.68M	19.058M	21.065M	18.883M
5700MHz	Pass	Inf	21.395M	18.971M	20.735M	18.955M	20.845M	18.995M	21.175M	18.972M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.465M	14.481M	15.255M	14.473M	15.69M	14.534M	15.825M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.55M	4.48M	4.522M	4.5M	4.529M	4.5M	4.529M
5745MHz	Pass	500k	19.085M	19.022M	19.195M	19.093M	19.14M	19.036M	19.085M	18.992M
5785MHz	Pass	500k	18.975M	18.985M	17.215M	19.006M	19.14M	18.969M	19.085M	18.984M
5825MHz	Pass	500k	19.14M	19.078M	16.83M	19.06M	18.81M	19.14M	19.14M	18.961M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	Inf	40.48M	37.794M	42.35M	37.703M	40.48M	37.635M	41.14M	37.946M
5550MHz	Pass	Inf	40.15M	37.639M	39.71M	37.85M	39.49M	37.621M	39.82M	37.583M
5670MHz	Pass	Inf	39.38M	37.721M	39.38M	38.01M	39.38M	37.764M	39.71M	37.607M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.825M	33.792M	34.86M	33.709M	34.72M	33.642M	34.405M	33.721M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.28M	4.056M	4.02M	4.044M	4.02M	4.042M	3.48M	4.063M
5755MHz	Pass	500k	37.62M	37.733M	36.41M	37.896M	38.06M	37.855M	37.84M	37.819M
5795MHz	Pass	500k	35.97M	37.73M	36.52M	37.573M	37.62M	37.759M	37.84M	37.584M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	Inf	80.96M	76.92M	80.74M	77.325M	80.52M	76.914M	81.62M	77.221M
5610MHz	Pass	Inf	80.96M	76.903M	80.3M	77.295M	80.3M	77.179M	81.4M	77.455M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75M	73.234M	75.75M	73.29M	75.225M	73.015M	75.075M	73.289M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	4.054M	3.98M	4.064M	3.66M	4.05M	3.66M	4.091M
5775MHz	Pass	500k	75.46M	77.681M	62.92M	77.222M	74.36M	77.091M	76.34M	77.206M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	Inf	161.92M	155.895M	161.92M	155.349M	162.8M	156.077M	161.92M	155.926M

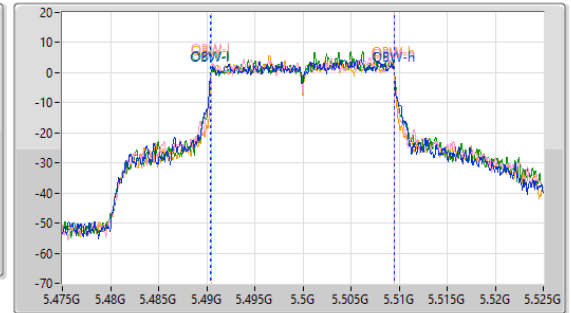
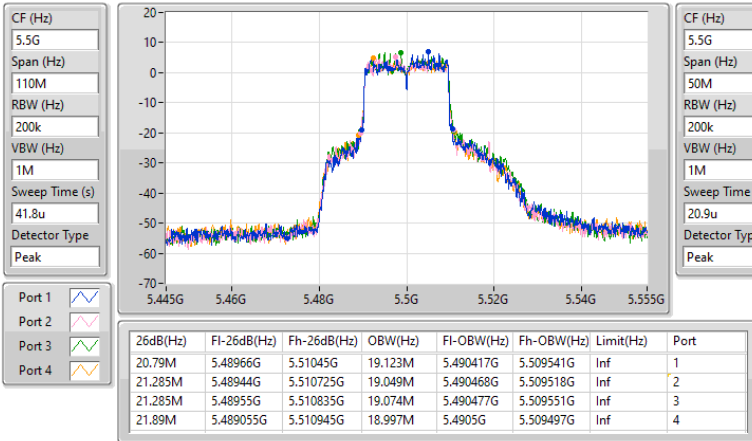
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

31/01/2024

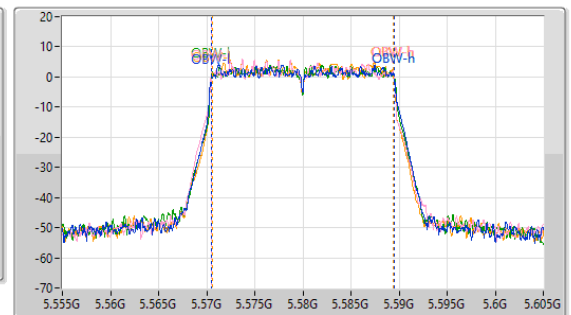
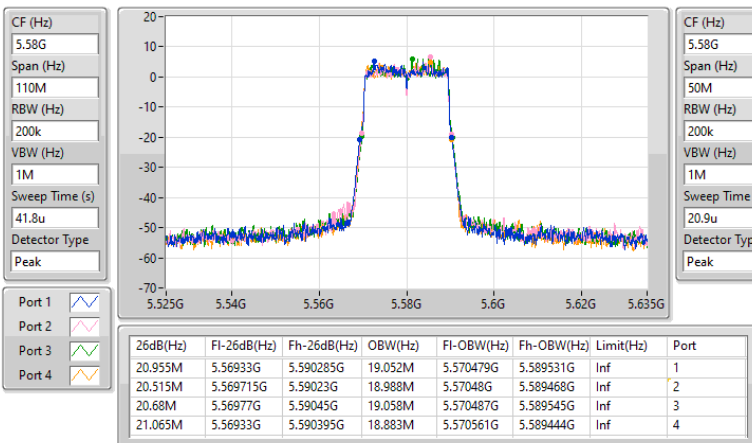


5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

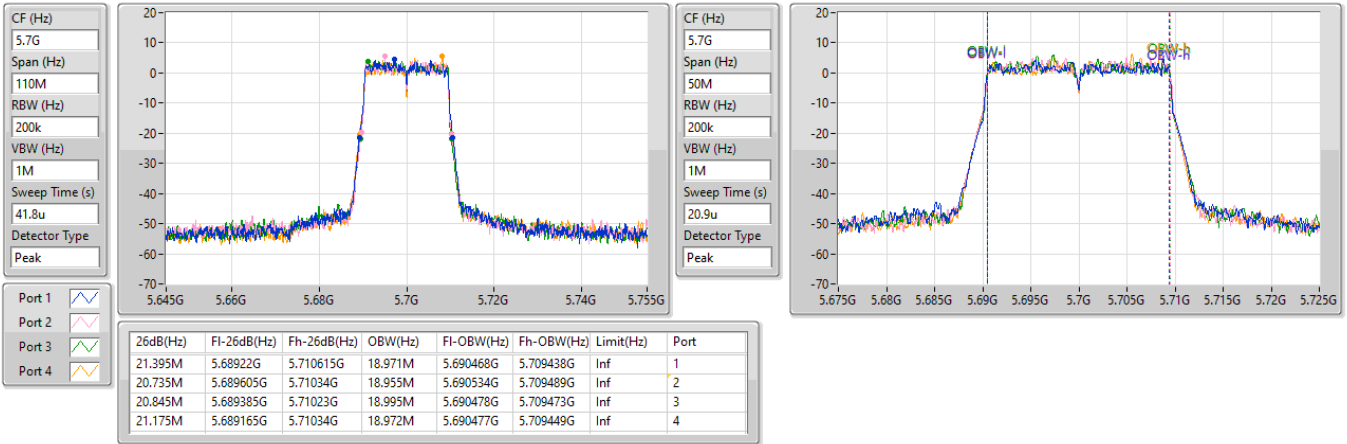
5580MHz

31/01/2024

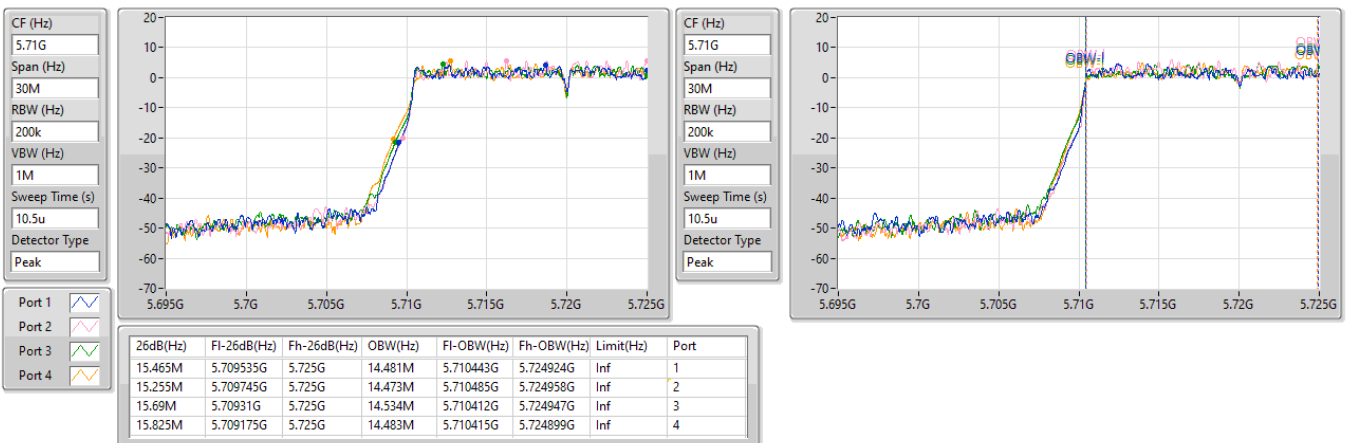


5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

31/01/2024

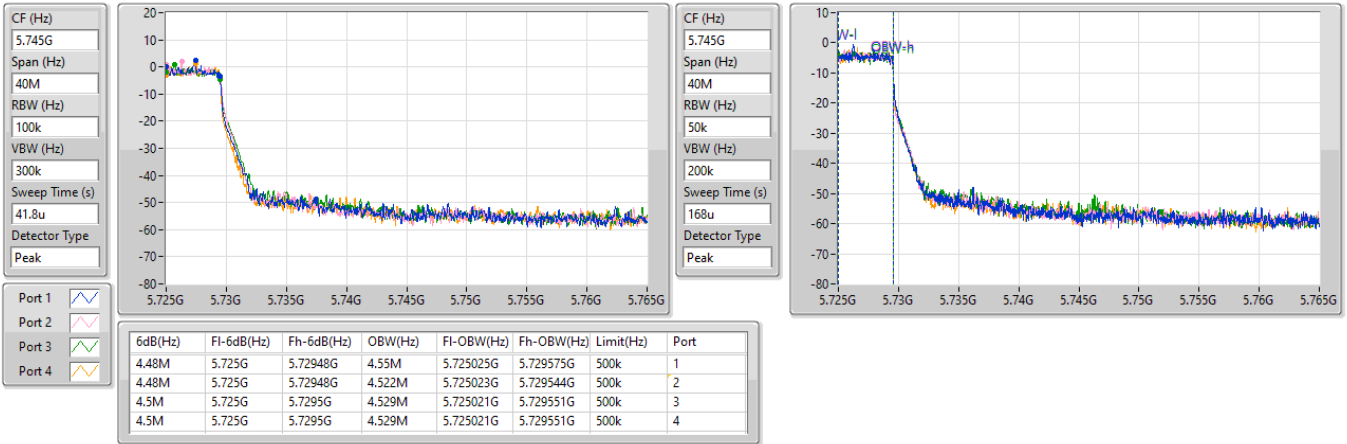

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

31/01/2024

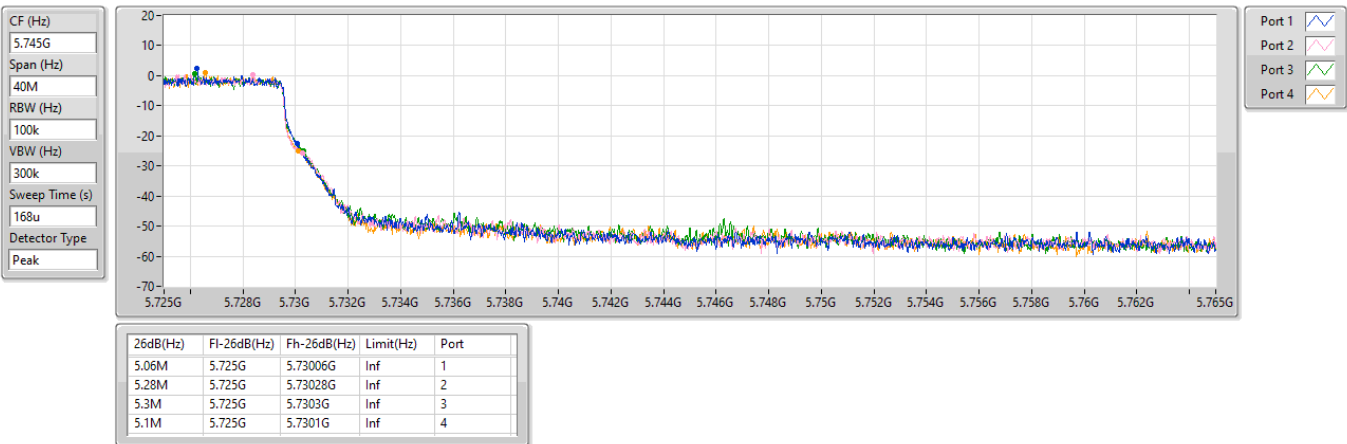


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/01/2024

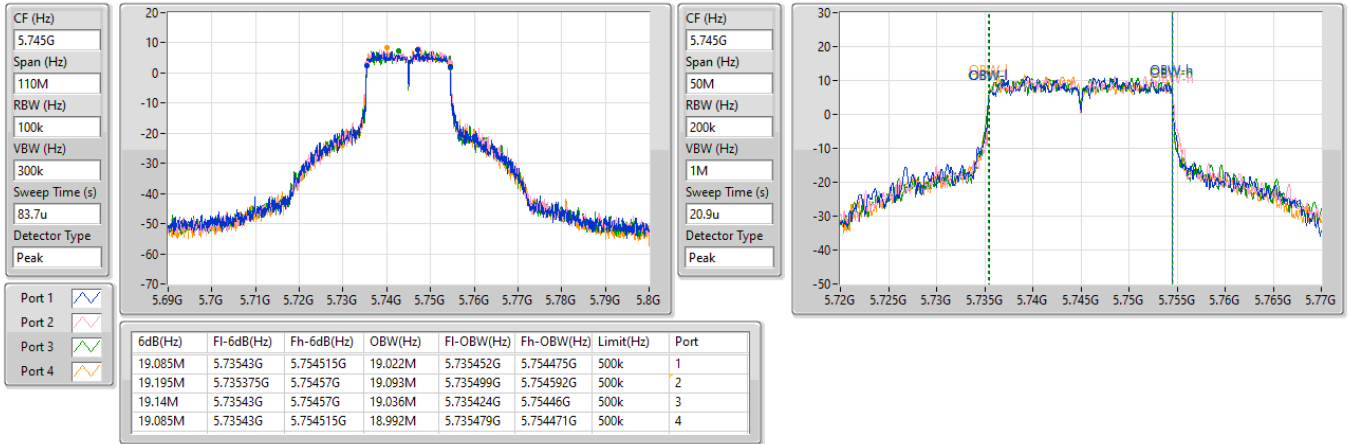

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/01/2024



5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5745MHz

31/01/2024

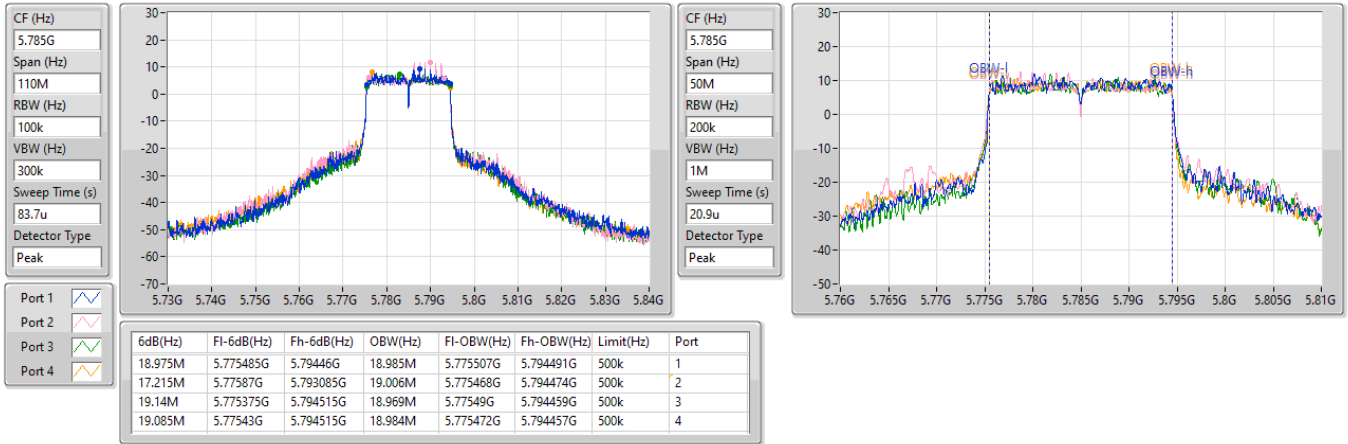

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5745MHz

31/01/2024

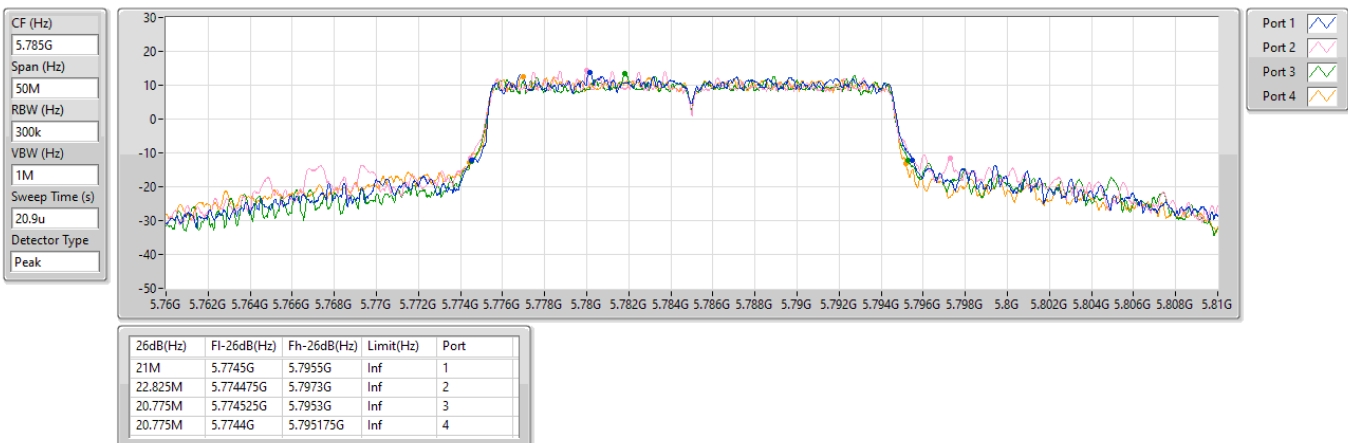


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5785MHz

31/01/2024

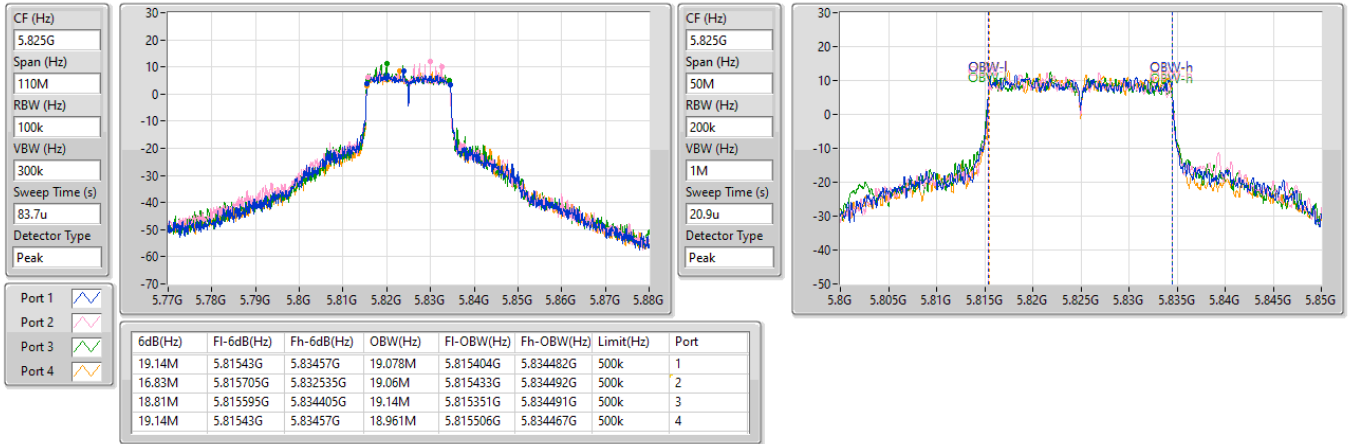

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5785MHz

31/01/2024

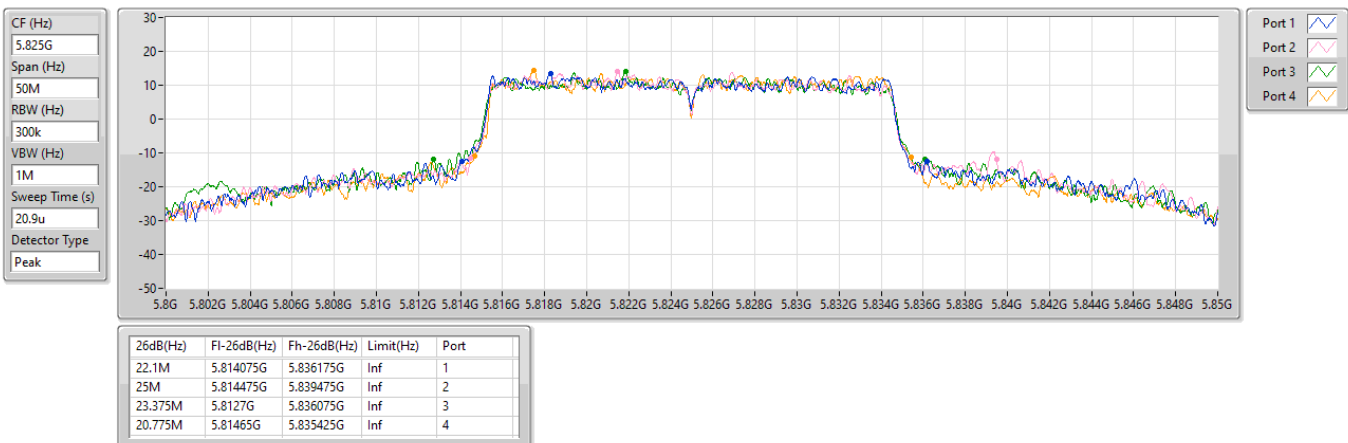


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5825MHz

31/01/2024


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5825MHz

31/01/2024

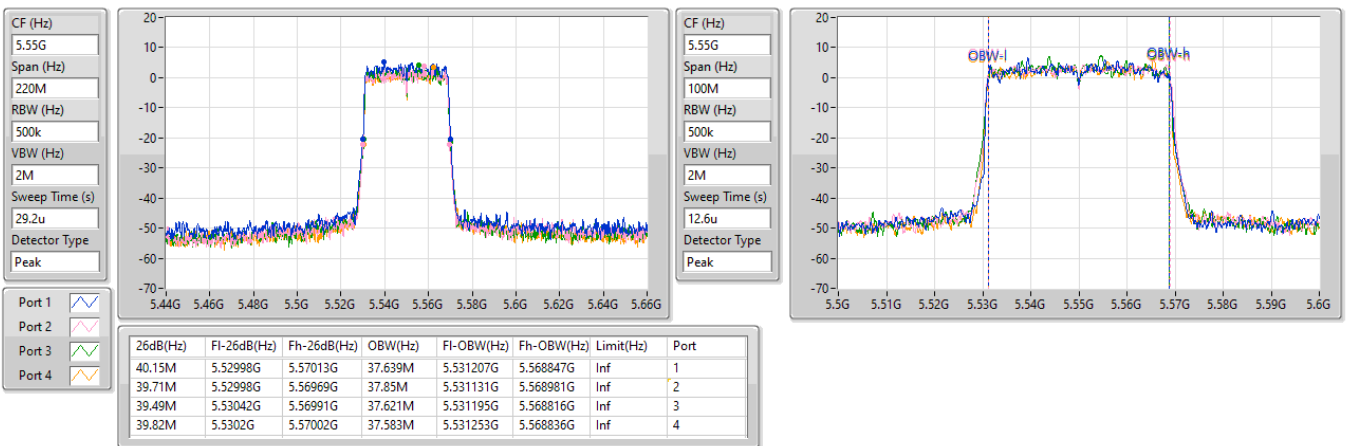


5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

31/01/2024

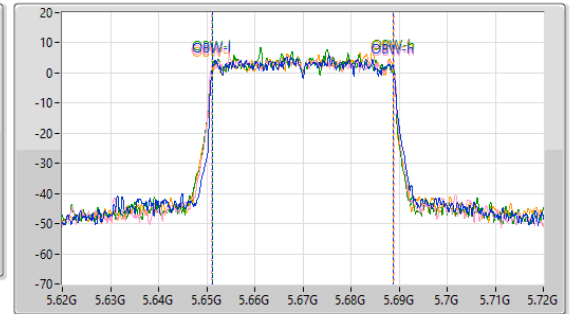
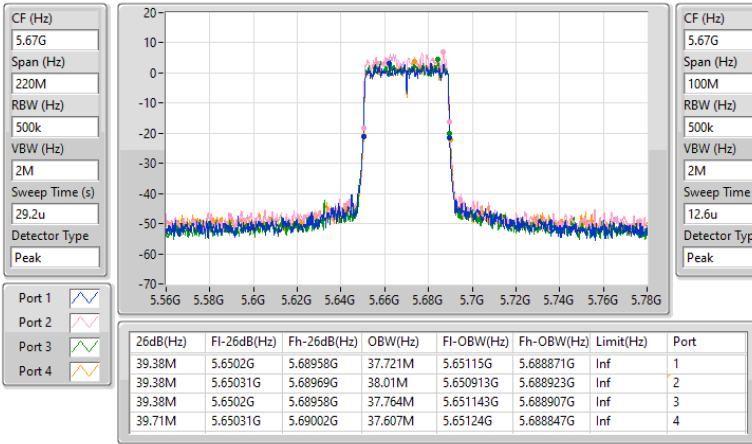

5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

31/01/2024

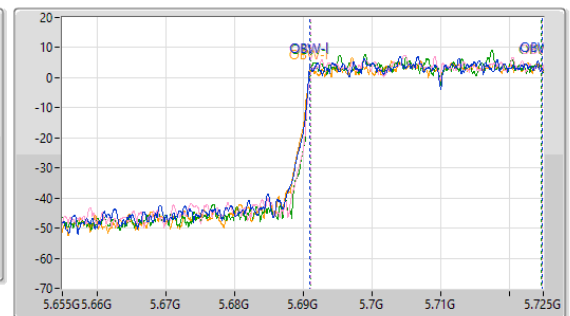
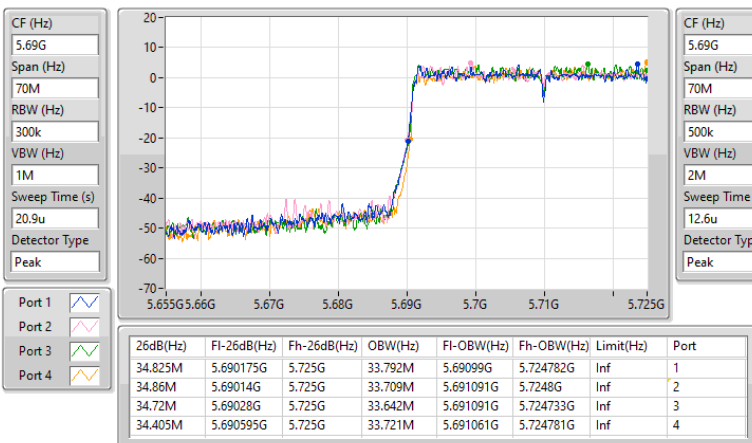


5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

31/01/2024

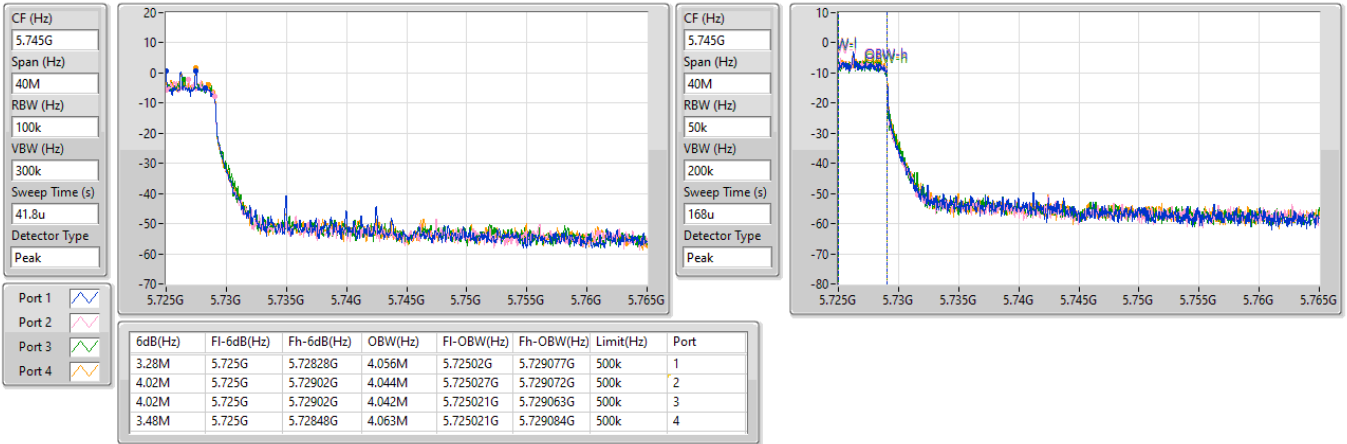

5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

31/01/2024

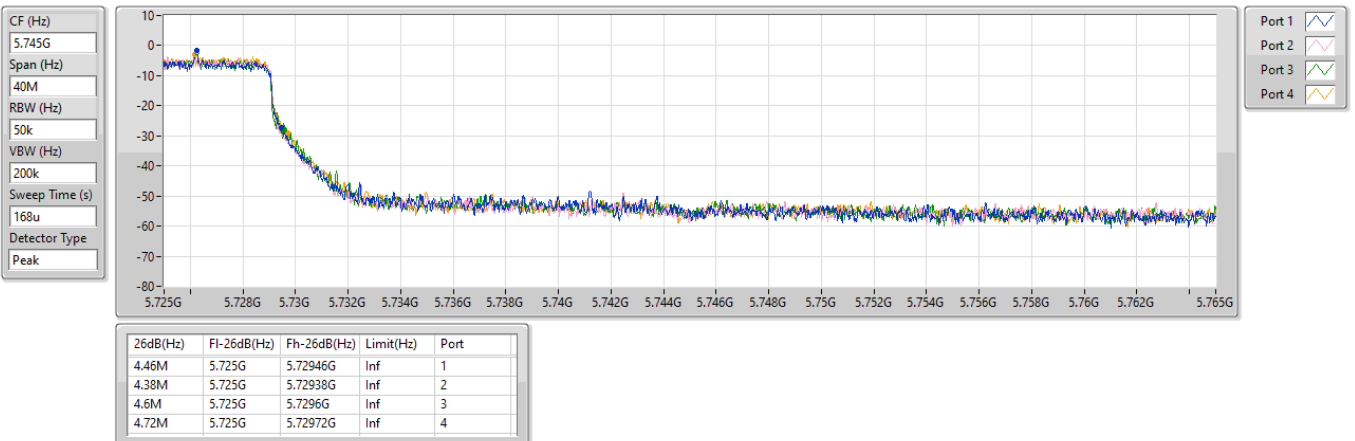


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EBW
5710MHz Straddle 5.725-5.85GHz

31/01/2024

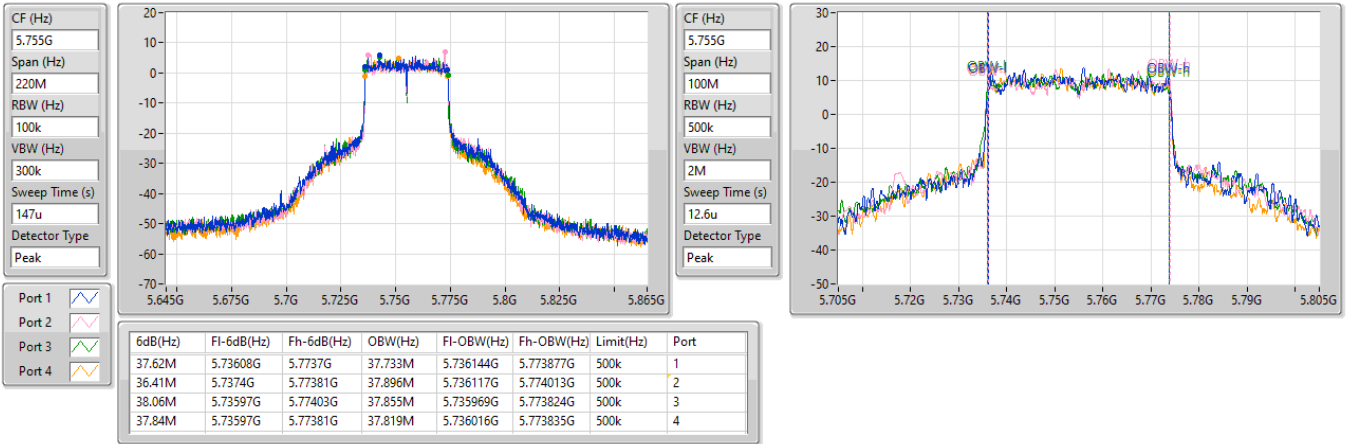

5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

31/01/2024

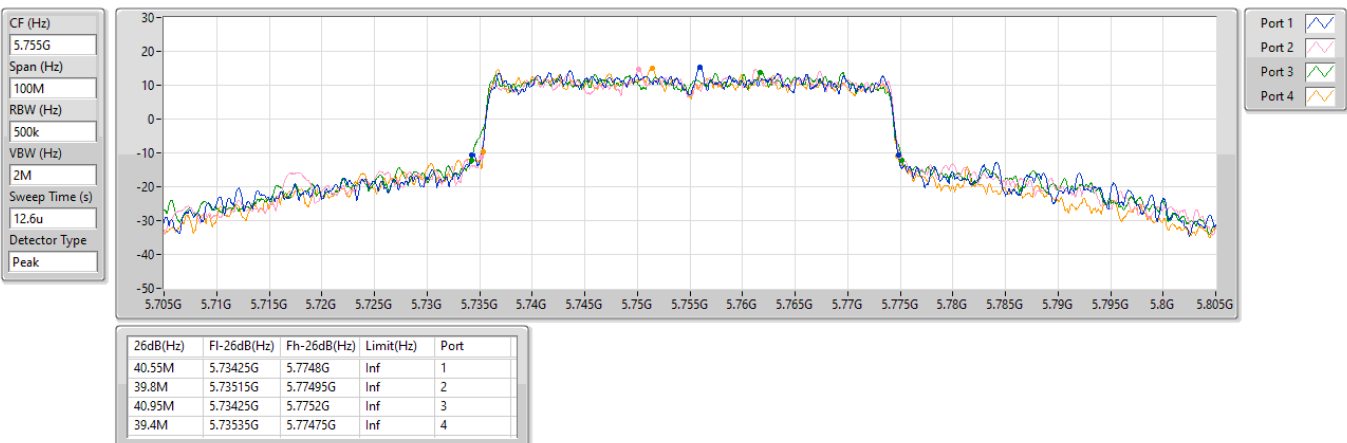


5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5755MHz

31/01/2024

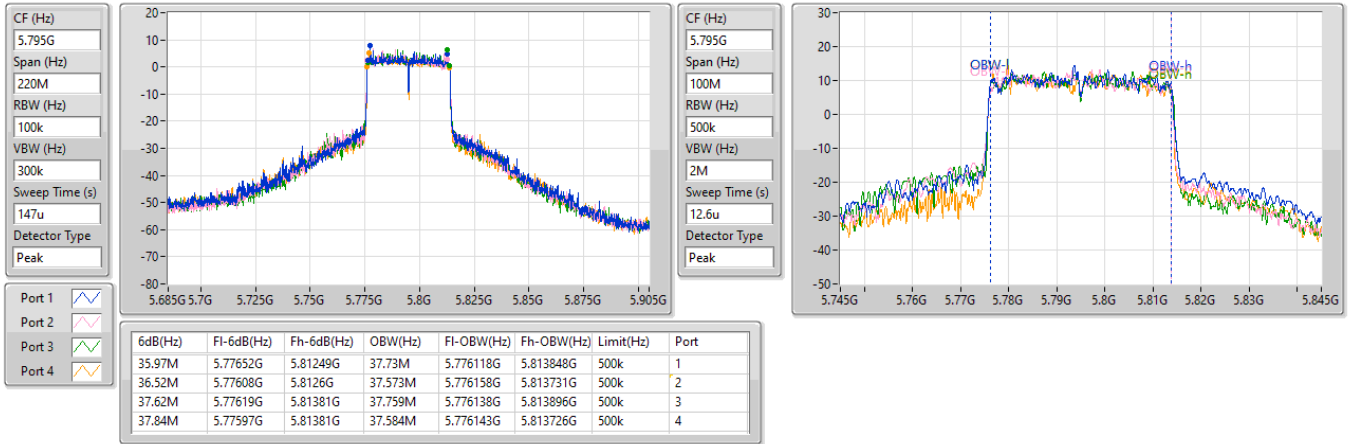

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EBW
5755MHz

31/01/2024

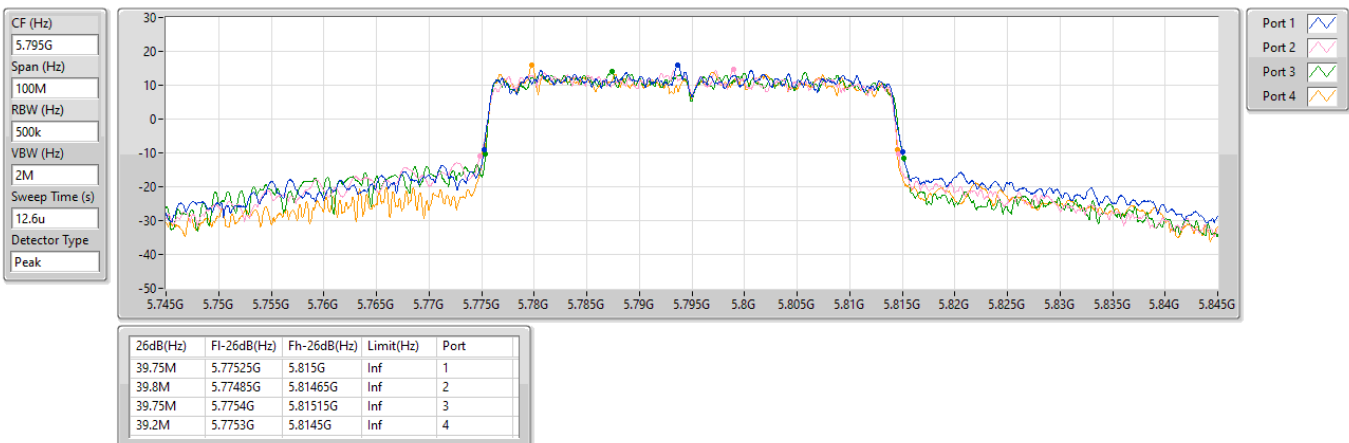


5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5795MHz

31/01/2024

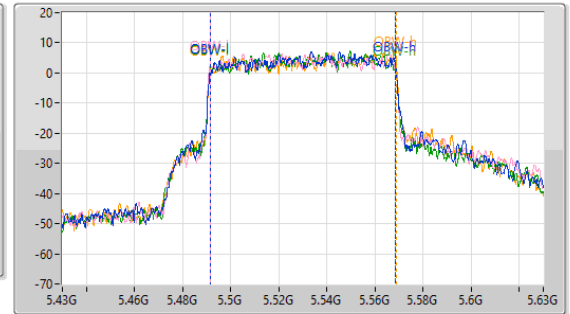
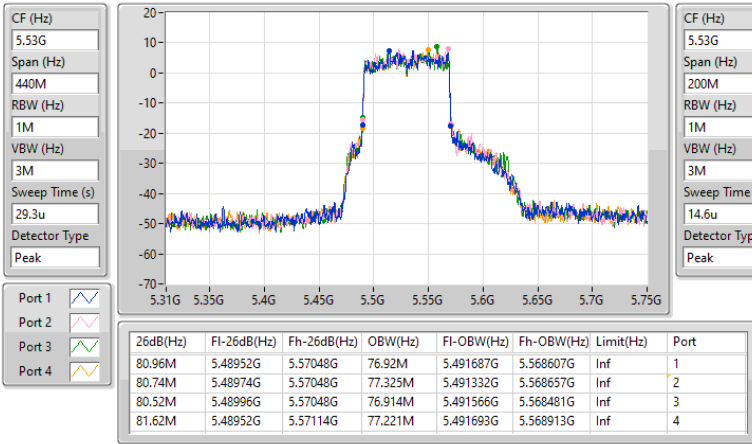

5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5795MHz

31/01/2024

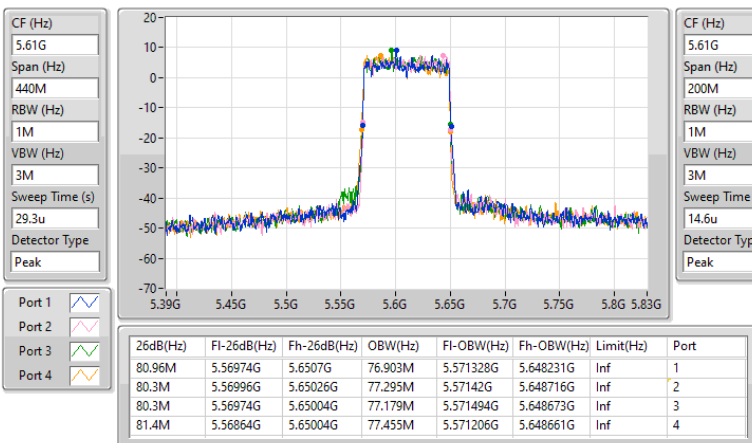


5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

31/01/2024

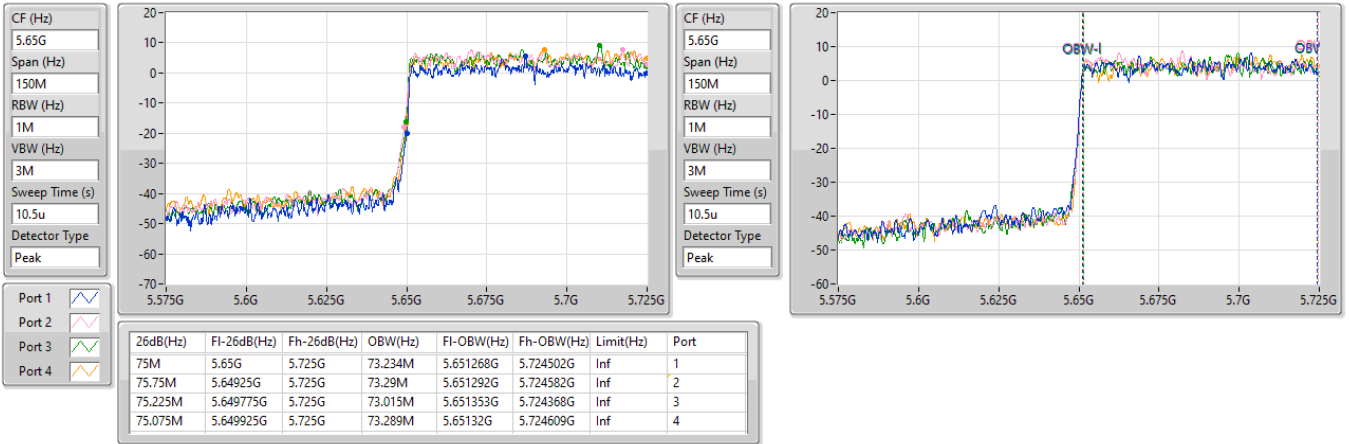

5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

31/01/2024

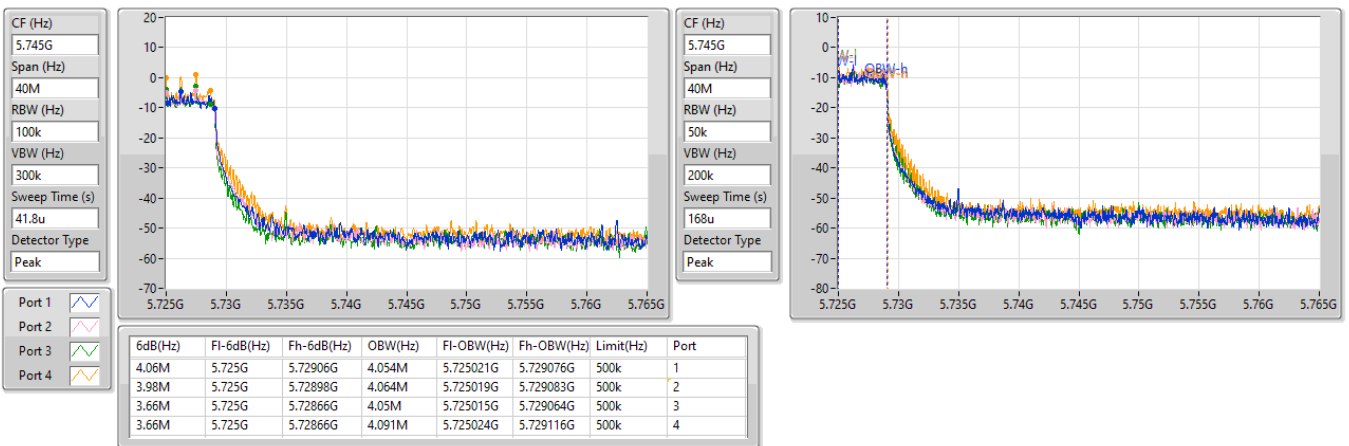


5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

31/01/2024

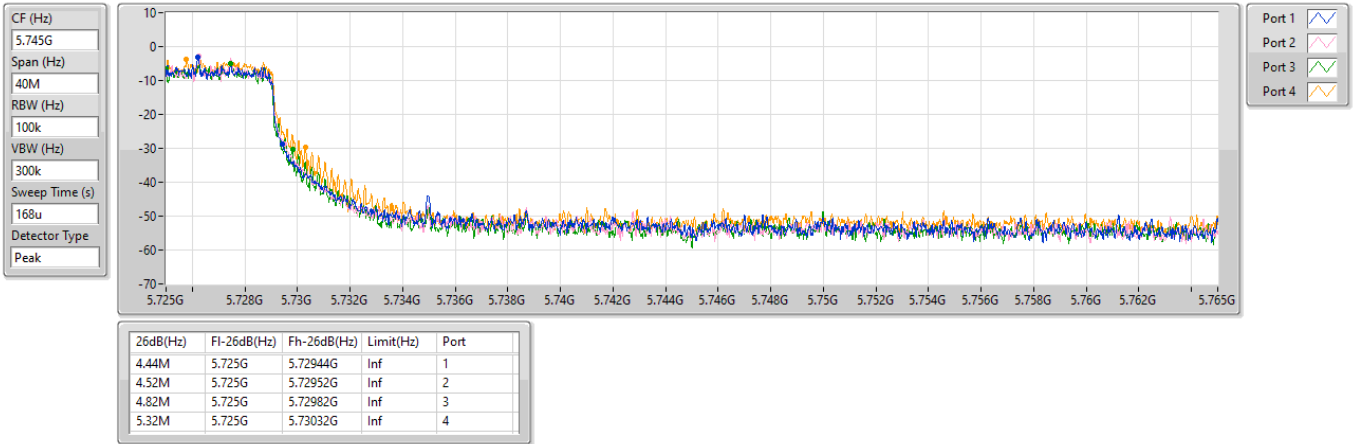

5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

31/01/2024

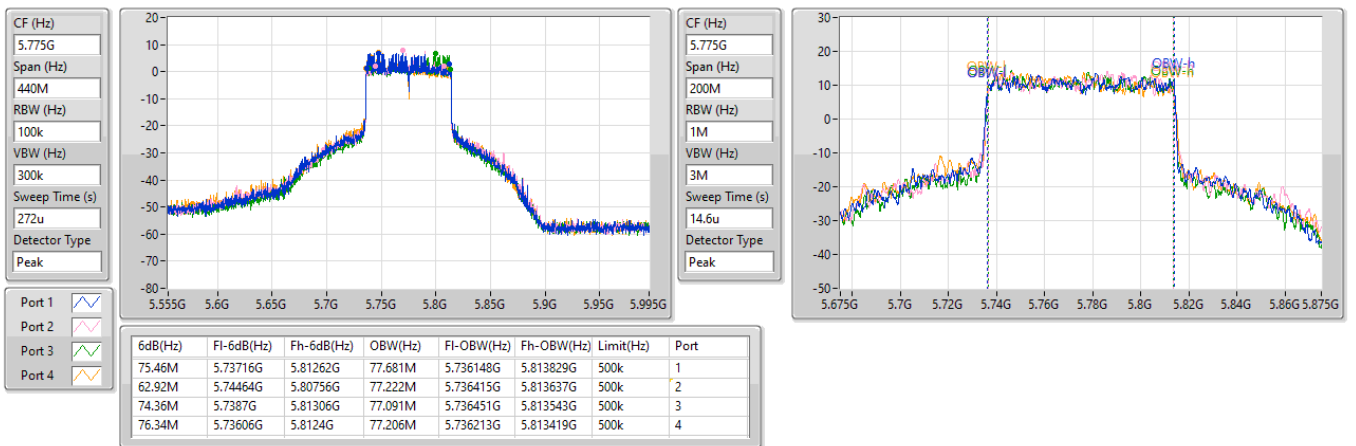


5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

31/01/2024

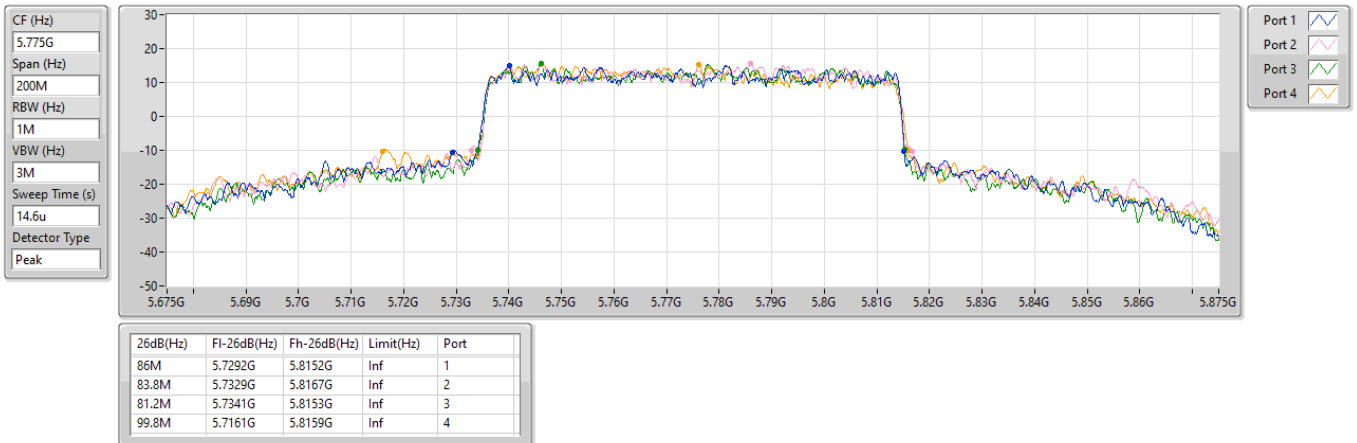

5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

31/01/2024

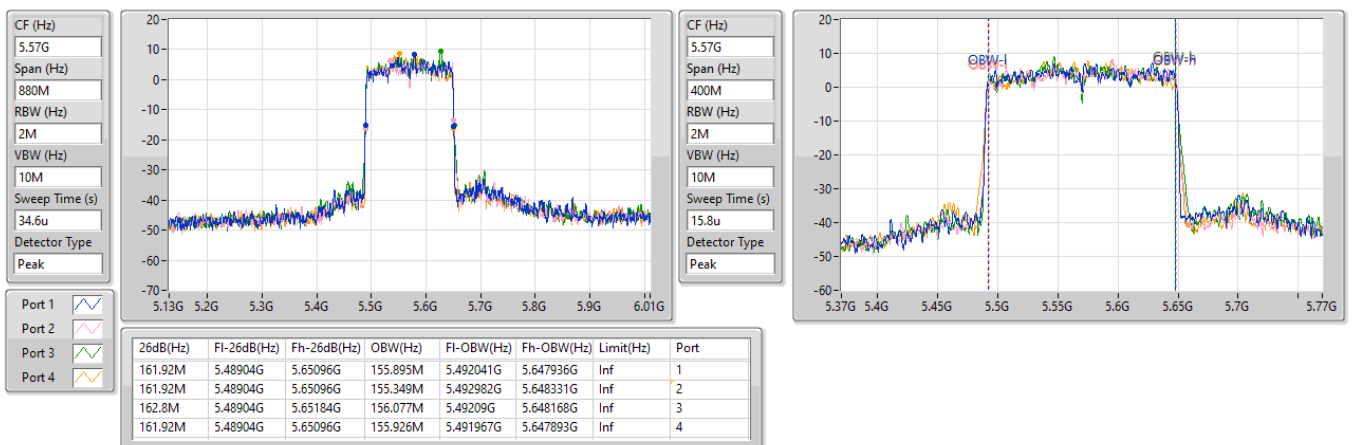


5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

31/01/2024


5.47-5.725GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

31/01/2024



For UNII 1 and UNII 2A:**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.71	0.93541
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.63	0.91833
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	27.14	0.51761
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	20.12	0.10280
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.59	0.22856
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.53	0.22542
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.46	0.22182
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	20.42	0.11015

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.17	22.36	22.69	21.63	22.65	28.37	29.83
5200MHz	Pass	6.17	23.71	23.43	24.00	23.62	29.71	29.83
5240MHz	Pass	6.17	23.54	23.73	23.81	23.49	29.66	29.83
5260MHz	Pass	6.32	17.63	16.94	18.02	17.63	23.59	23.66
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.17	21.2	21.3	20.24	21.14	27.01	29.83
5230MHz	Pass	6.17	23.86	23.51	23.63	23.44	29.63	29.83
5310MHz	Pass	6.32	18.00	17.05	17.43	17.49	23.53	23.66
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.17	21.57	21.35	20.39	21.09	27.14	29.83
5290MHz	Pass	6.32	17.60	16.98	17.51	17.63	23.46	23.66
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.17	14.31	14.45	13.34	14.23	20.12	29.83
5250MHz Straddle 5.25-5.35GHz	Pass	6.32	14.95	14.39	13.77	14.41	20.42	23.66

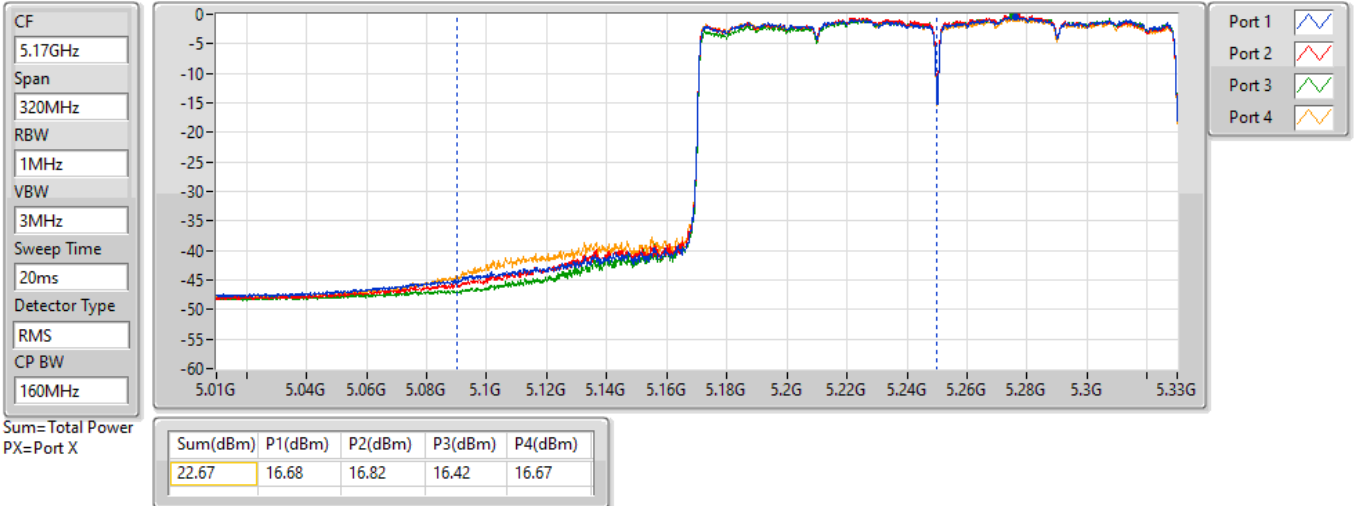
DG = Directional Gain; Port X = Port X output power

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

30/12/2021

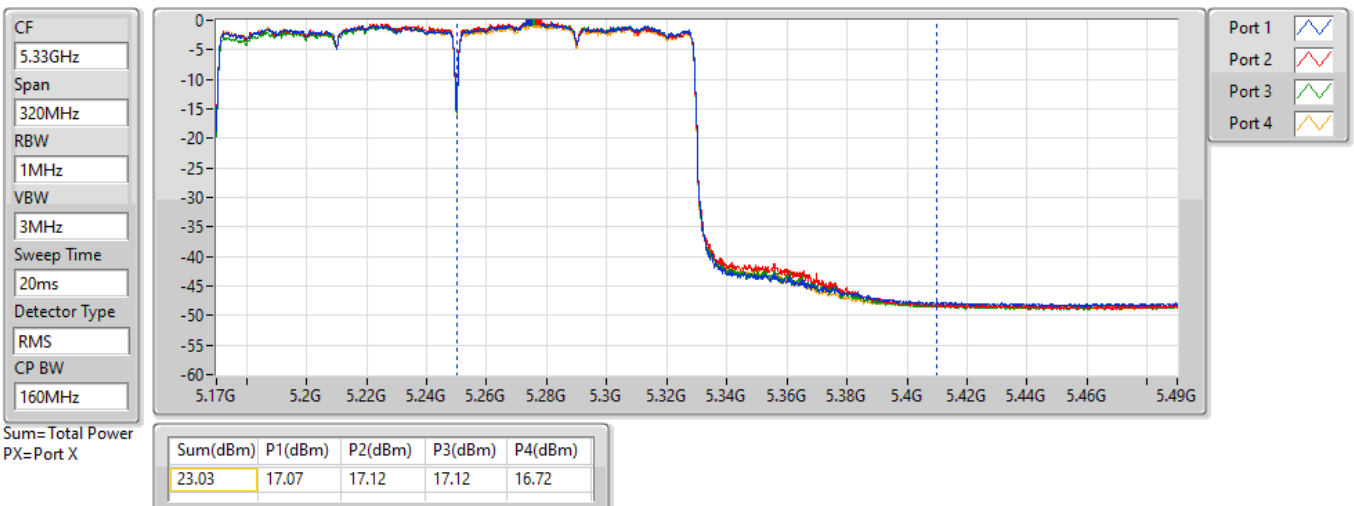


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

30/12/2021





Average Power_EUT 5

Appendix B.2

For UNII 2C and UNII 3:

Summary

Mode	Total Power (dBm)	Total Power (W)
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.37	0.21727



Average Power_EUT 5

Appendix B.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)_4TX	-	-	-	-	-	-	-	-
5500MHz	Pass	4.84	17.11	17.28	17.13	17.18	23.20	23.98
5580MHz	Pass	4.84	17.10	17.46	17.24	17.12	23.25	23.98
5700MHz	Pass	4.84	17.04	17.74	17.53	17.04	23.37	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.84	15.53	16.15	16.00	15.72	21.88	22.92
5720MHz Straddle 5.725-5.85GHz	Pass	4.77	9.59	9.90	9.94	9.47	15.75	30.00

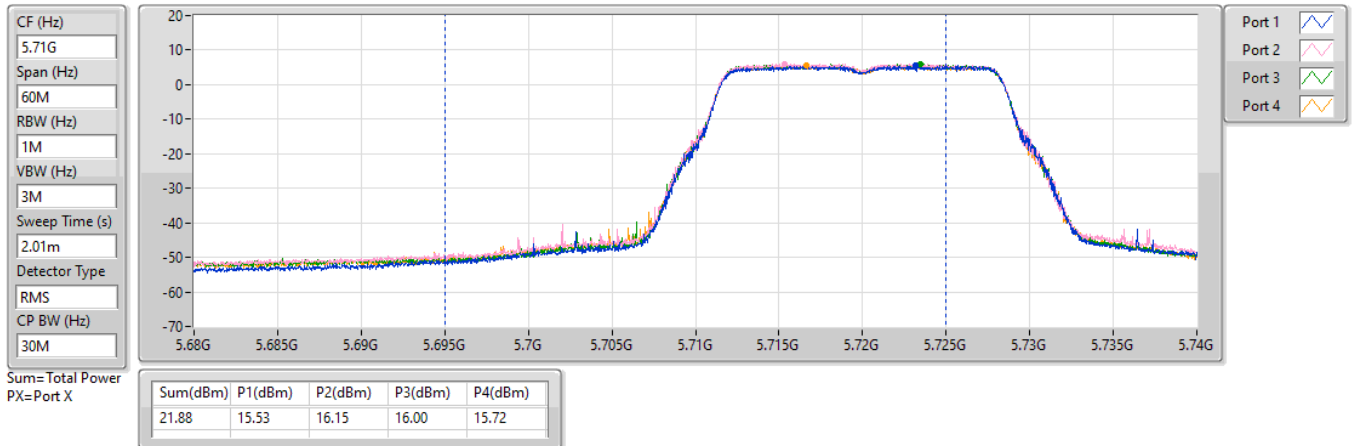
DG = Directional Gain; Port X = Port X output power

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

30/01/2024

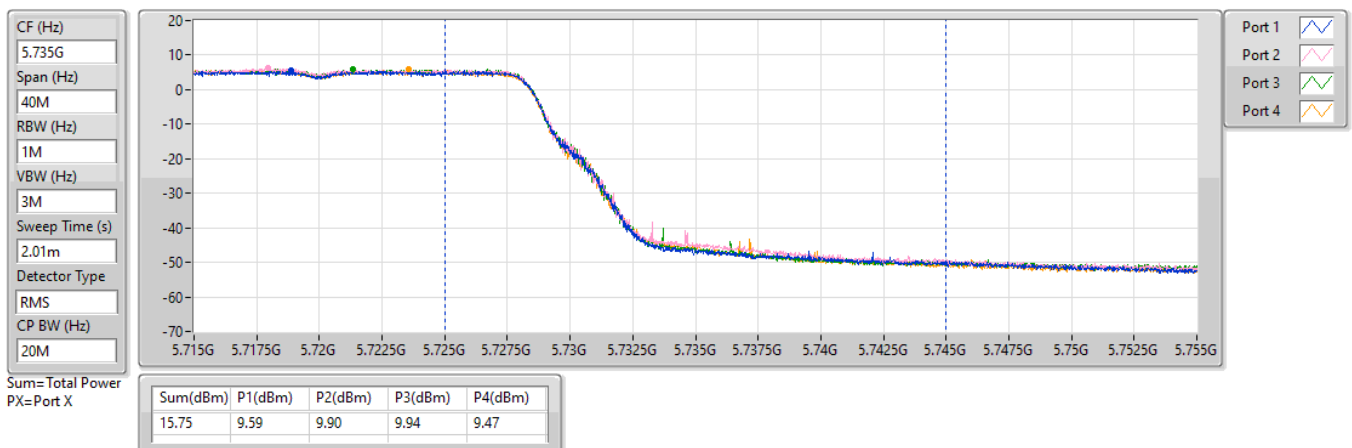


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

30/01/2024



For UNII 2C and UNII 3:**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.96	0.19770
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.92	0.19588
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.99	0.19907
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	22.90	0.19498
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.32	0.85507
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.43	0.87700
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	29.45	0.88105

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5500MHz	Pass	6.97	16.85	16.89	16.65	16.79	22.82	23.01
5580MHz	Pass	6.97	16.85	17.04	16.93	16.94	22.96	23.01
5700MHz	Pass	6.97	16.43	17.04	17.04	16.72	22.84	23.01
5720MHz Straddle 5.47-5.725GHz	Pass	6.97	15.45	15.91	15.90	15.72	21.77	21.86
5720MHz Straddle 5.725-5.85GHz	Pass	6.48	10.43	10.70	10.72	10.41	16.59	29.52
5745MHz	Pass	6.48	23.24	23.27	23.26	23.25	29.28	29.52
5785MHz	Pass	6.48	23.27	23.18	23.39	23.30	29.31	29.52
5825MHz	Pass	6.48	23.21	23.19	23.49	23.30	29.32	29.52
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5510MHz	Pass	6.97	16.65	16.92	17.11	16.82	22.90	23.01
5550MHz	Pass	6.97	16.56	16.88	17.03	16.63	22.80	23.01
5670MHz	Pass	6.97	16.40	17.18	17.19	16.78	22.92	23.01
5710MHz Straddle 5.47-5.725GHz	Pass	6.97	16.67	16.92	17.11	16.37	22.80	23.01
5710MHz Straddle 5.725-5.85GHz	Pass	6.48	7.56	6.97	7.40	6.57	13.16	29.52
5755MHz	Pass	6.48	23.34	23.43	23.60	23.28	29.43	29.52
5795MHz	Pass	6.48	23.18	23.42	23.56	23.40	29.41	29.52
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5530MHz	Pass	6.97	16.68	16.89	17.20	16.87	22.93	23.01
5610MHz	Pass	6.97	16.94	17.18	17.13	16.61	22.99	23.01
5690MHz Straddle 5.47-5.725GHz	Pass	6.97	16.91	16.86	16.92	16.67	22.86	23.01
5690MHz Straddle 5.725-5.85GHz	Pass	6.48	4.77	2.97	3.23	3.20	9.63	29.52
5775MHz	Pass	6.48	23.31	23.42	23.53	23.44	29.45	29.52
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5570MHz	Pass	6.97	16.59	17.08	16.99	16.86	22.90	23.01

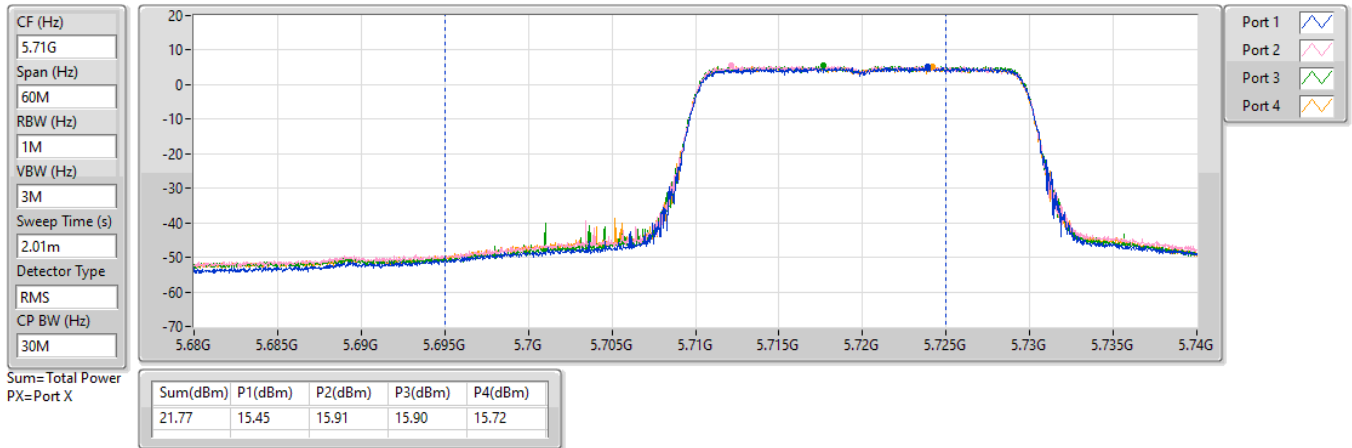
DG = Directional Gain; Port X = Port X output power

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

30/01/2024

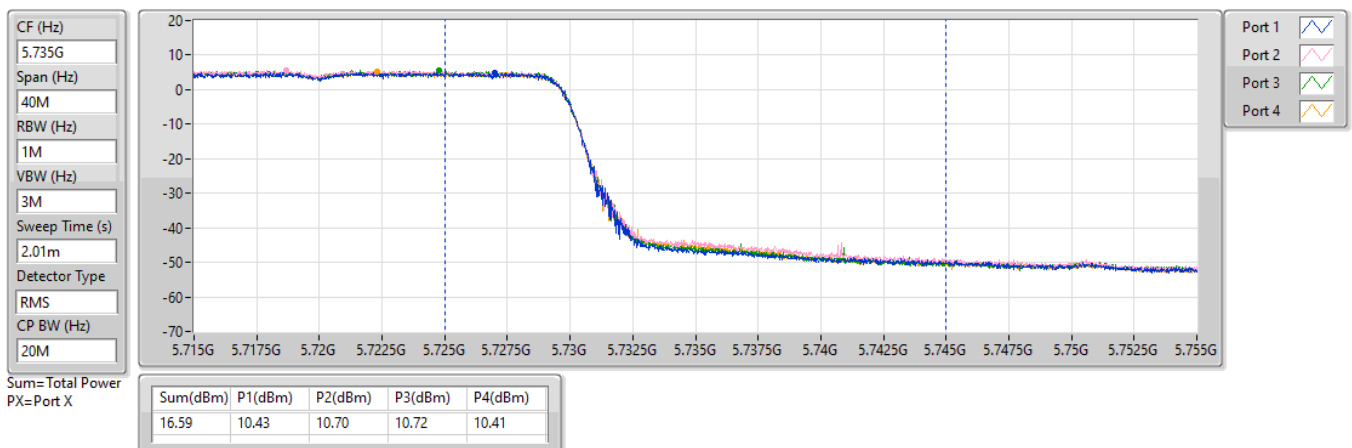


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

30/01/2024

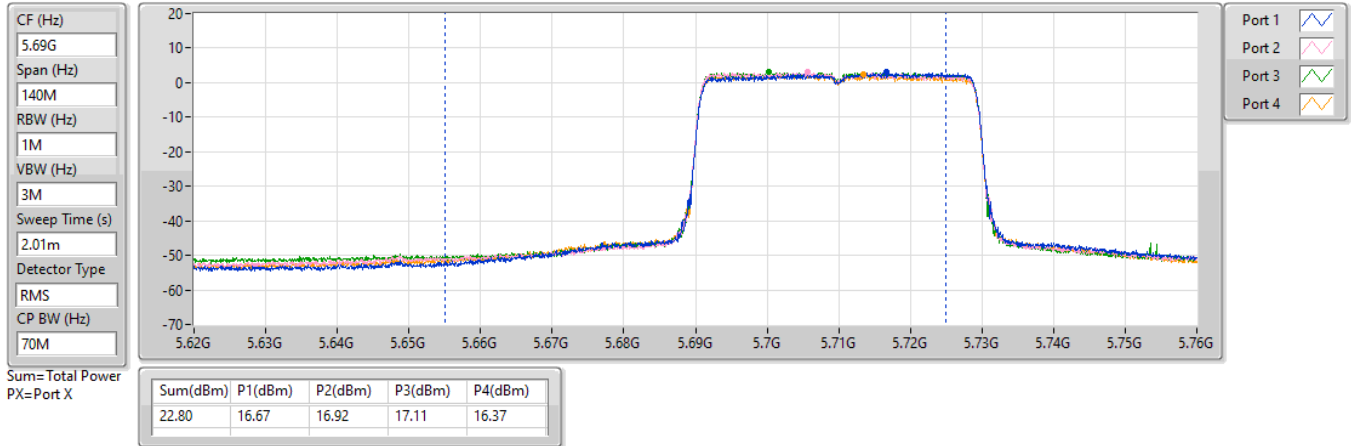


5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

30/01/2024

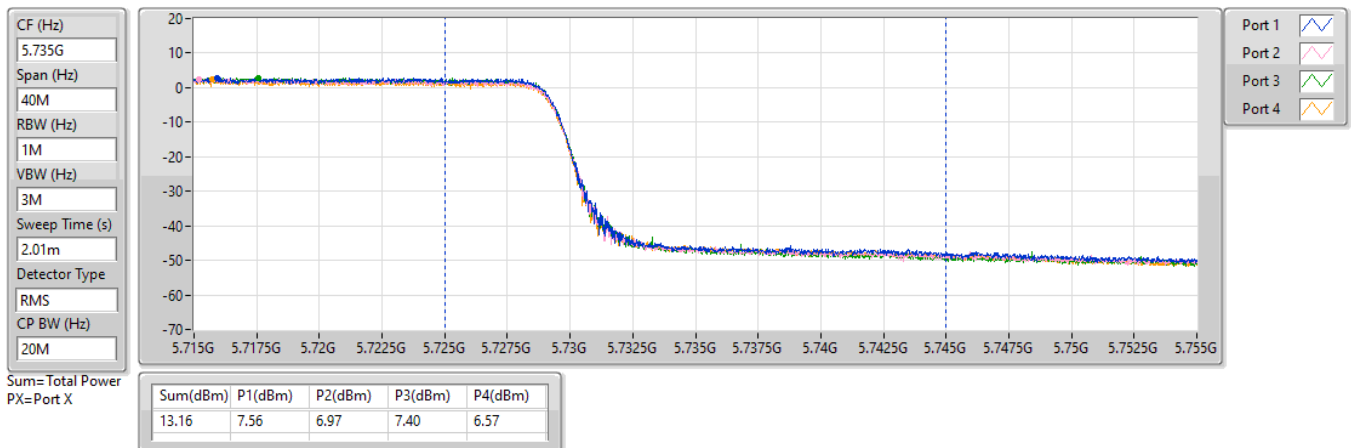


5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

30/01/2024

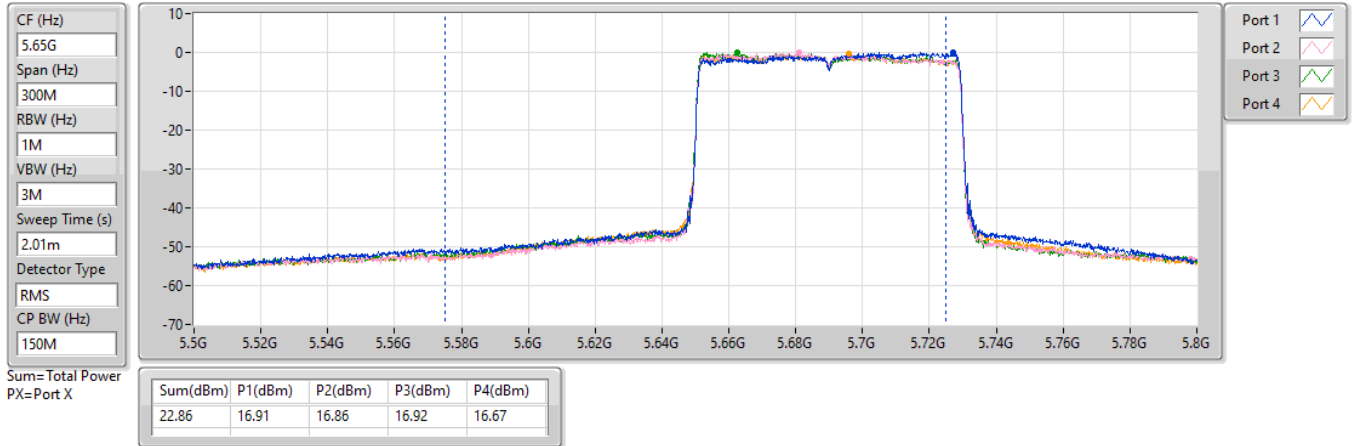


5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

31/01/2024

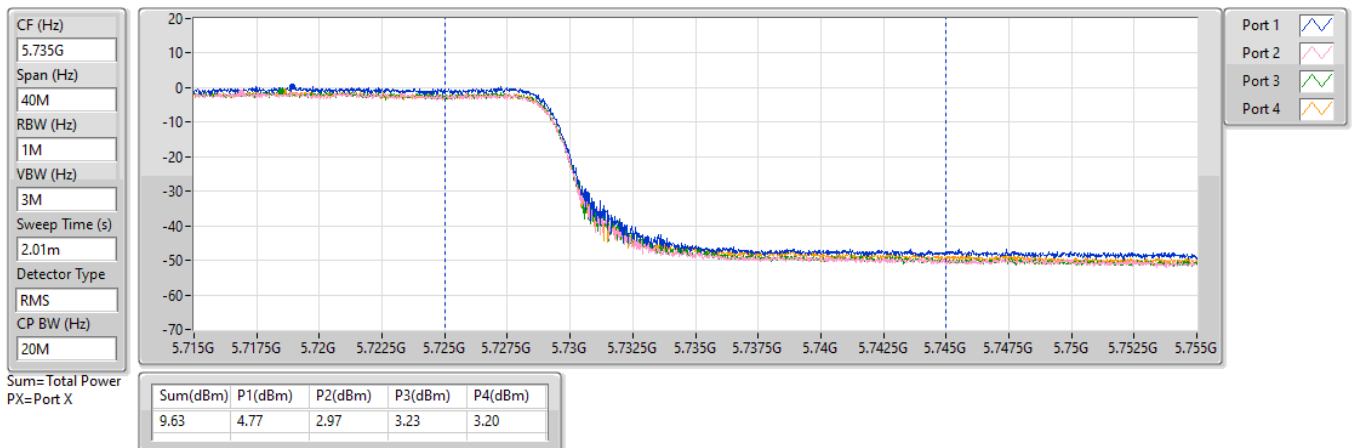


5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

31/01/2024



For UNII 1 and UNII 2A:

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.77
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.74
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	7.55
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.35
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.96
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.07
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.12
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.78

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

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.17	8.22	9.09	8.6	8.82	14.64	16.83
5200MHz	Pass	6.17	9.73	9.79	10.03	9.83	15.77	16.83
5240MHz	Pass	6.17	9.59	9.80	9.98	9.72	15.76	16.83
5260MHz	Pass	6.32	4.02	3.24	4.42	3.96	9.83	10.68
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.17	4.08	4.62	3.84	4.23	10.16	16.83
5230MHz	Pass	6.17	6.95	6.70	6.93	6.58	12.74	16.83
5310MHz	Pass	6.32	1.37	0.65	1.02	0.90	6.94	10.68
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.17	1.5	1.89	1.38	1.39	7.55	16.83
5290MHz	Pass	6.32	-1.72	-2.27	-1.60	-1.77	4.12	10.68
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.17	-4.77	-4.37	-4.77	-4.63	1.35	16.83
5250MHz Straddle 5.25-5.35GHz	Pass	6.32	-4.07	-4.25	-4.17	-4.27	1.78	10.68

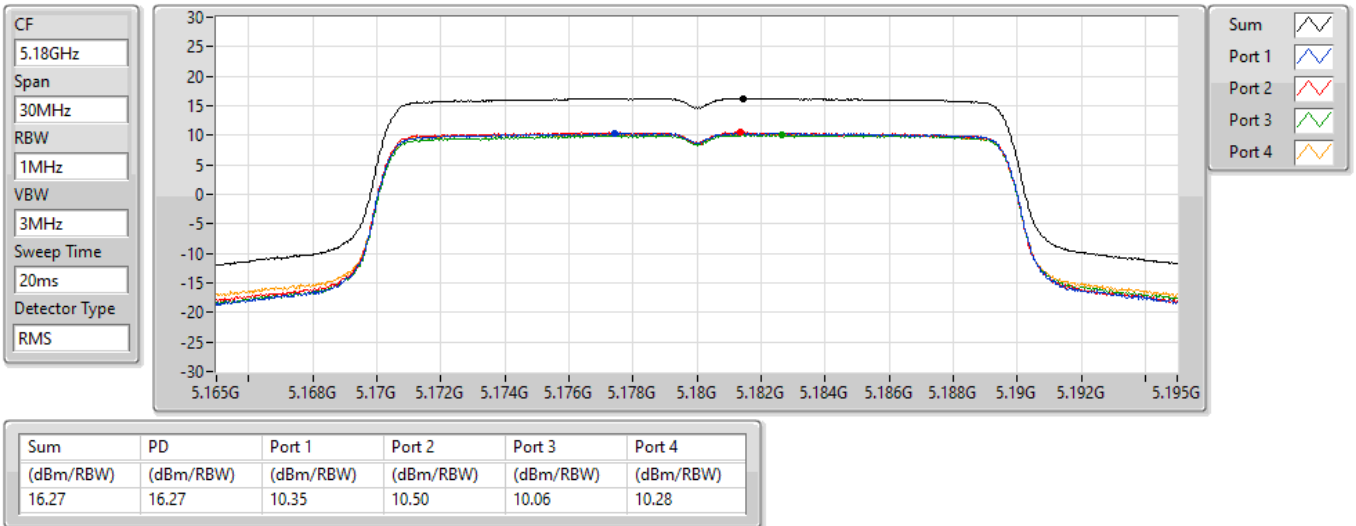
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5180MHz

29/12/2021

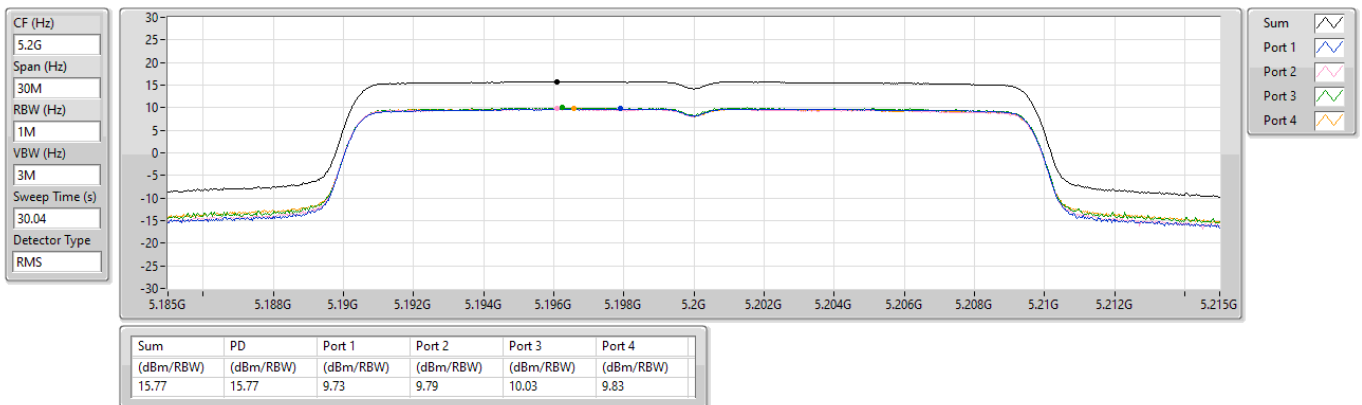


5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5200MHz

31/01/2024



5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5240MHz

31/01/2024

CF (Hz)
5.24G

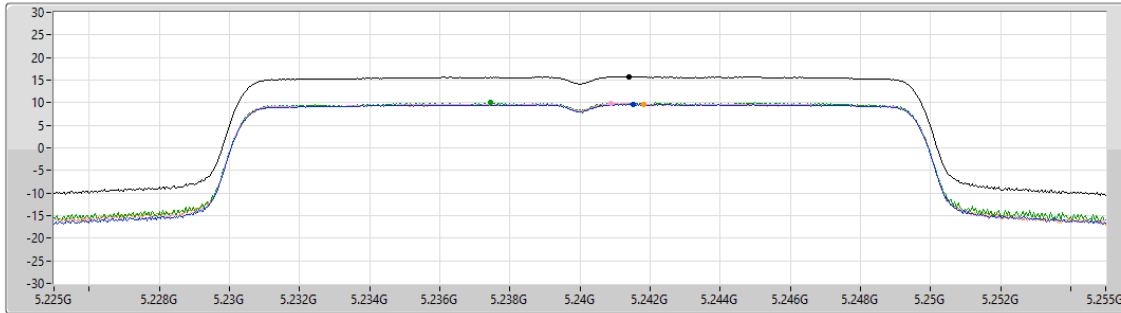
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
30.04

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
15.76	15.76	9.59	9.80	9.98	9.72

5.25-5.35GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

31/01/2024

CF (Hz)
5.26G

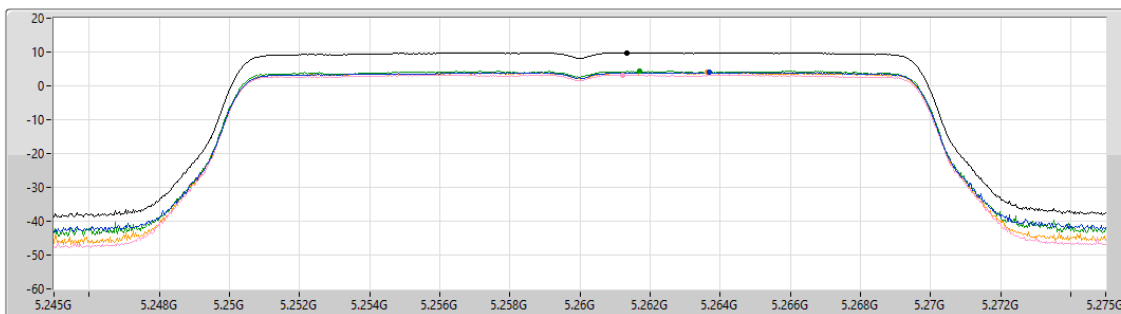
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
30.04

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

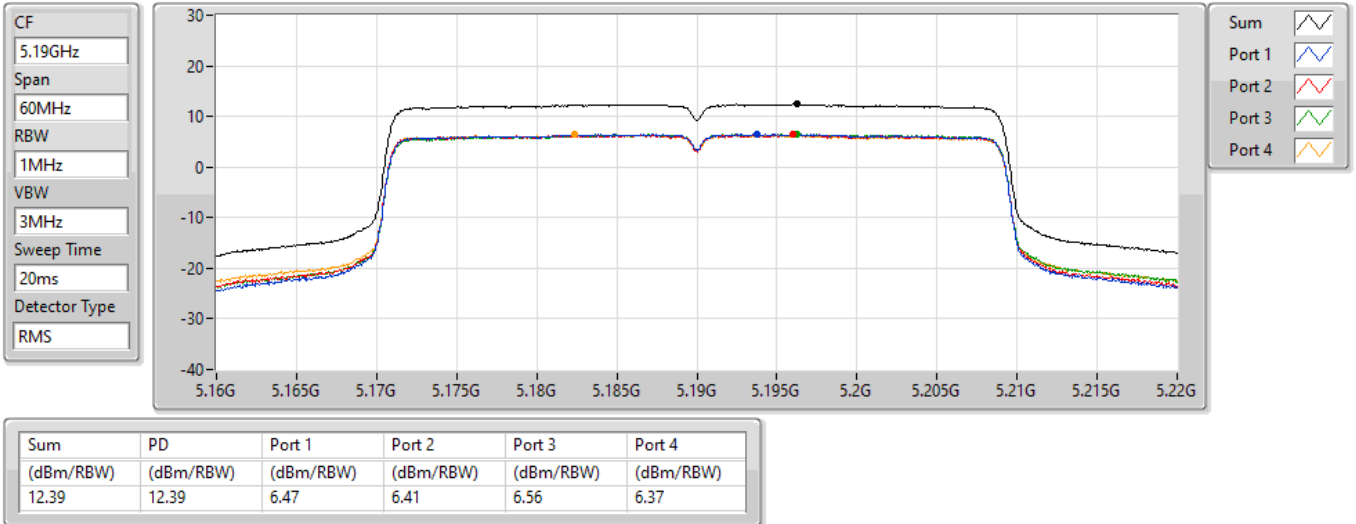
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.83	9.83	4.02	3.24	4.42	3.96

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

30/12/2021

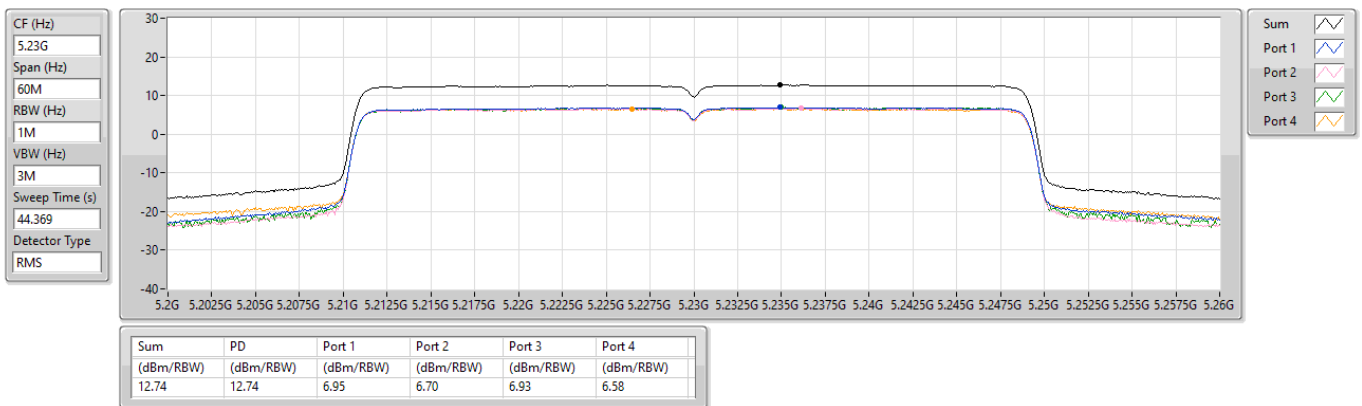


5.15-5.25GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

31/01/2024

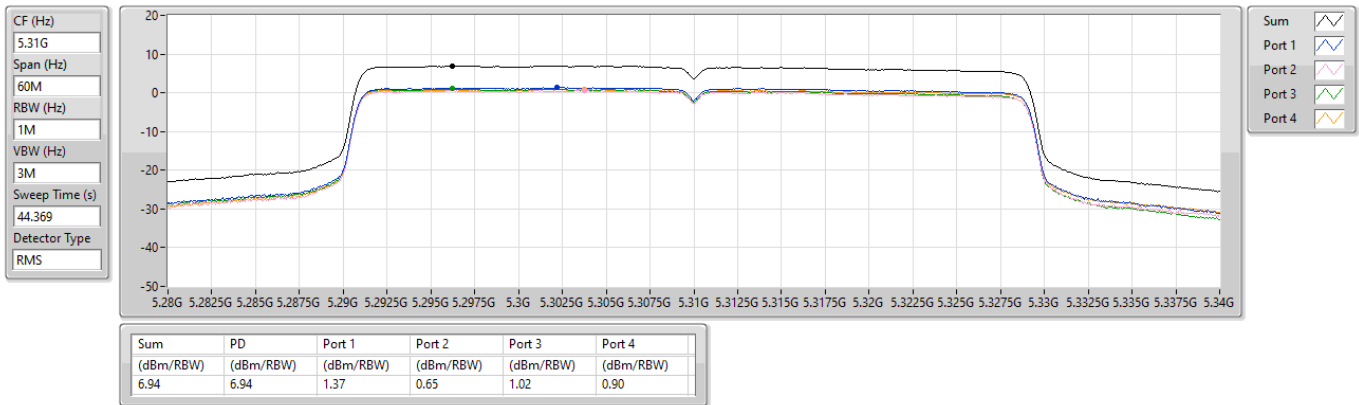


5.25-5.35GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

31/01/2024

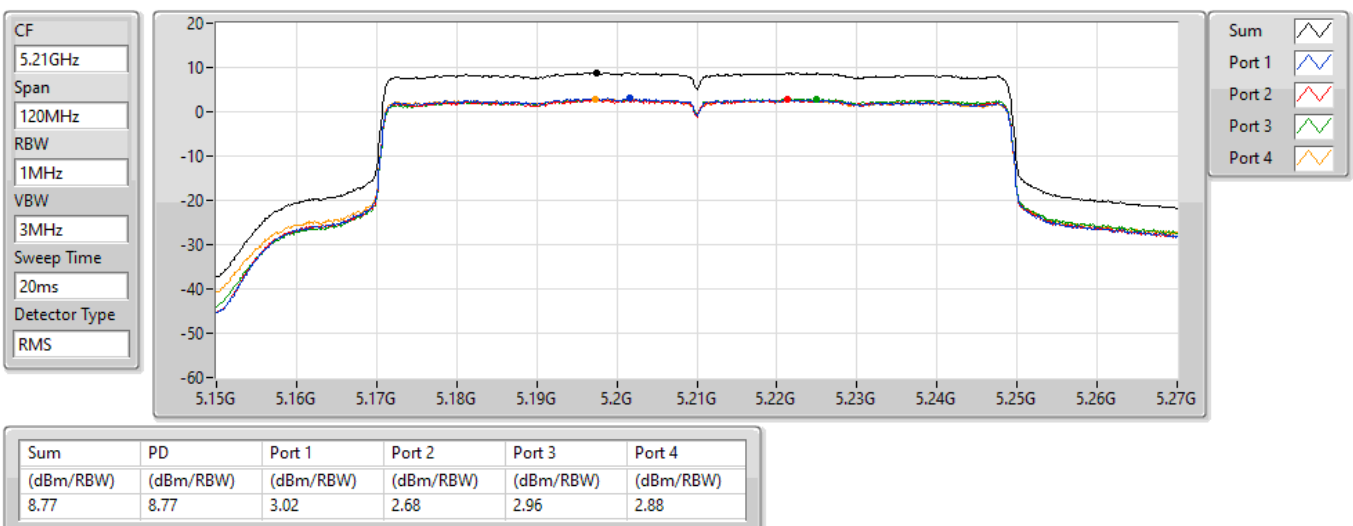


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

30/12/2021

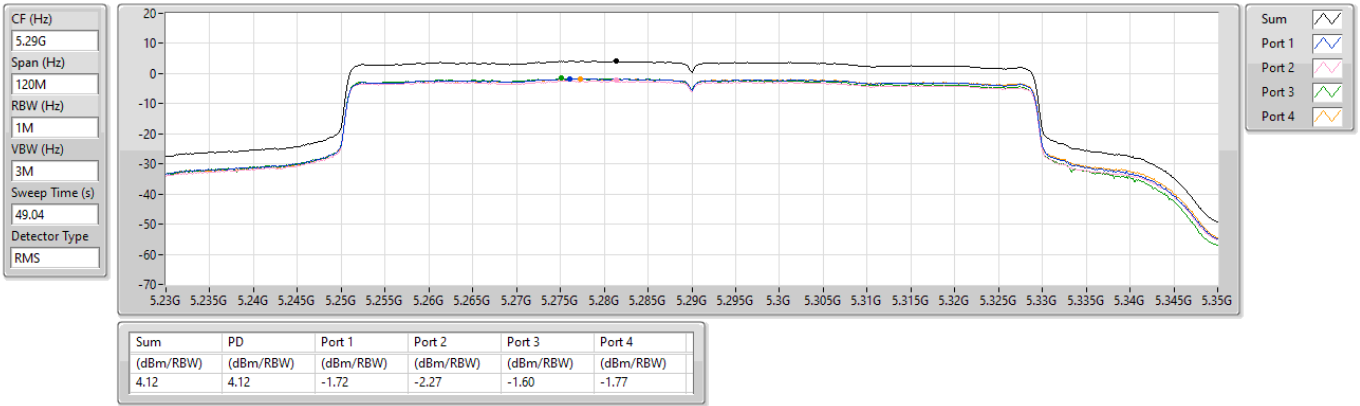


5.25-5.35GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

31/01/2024

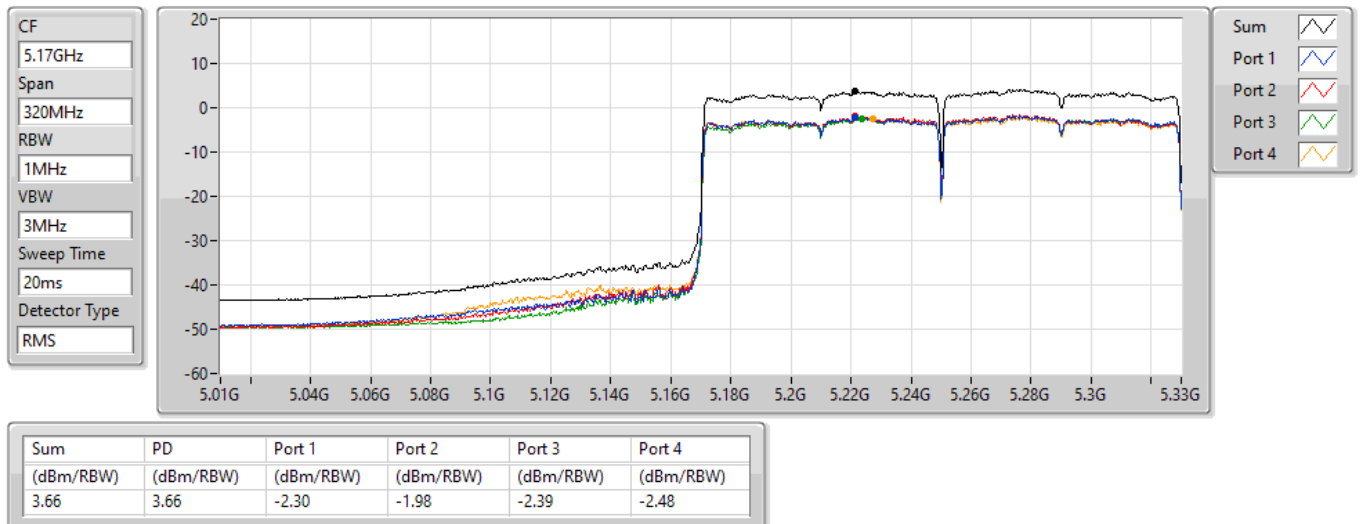


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

30/12/2021

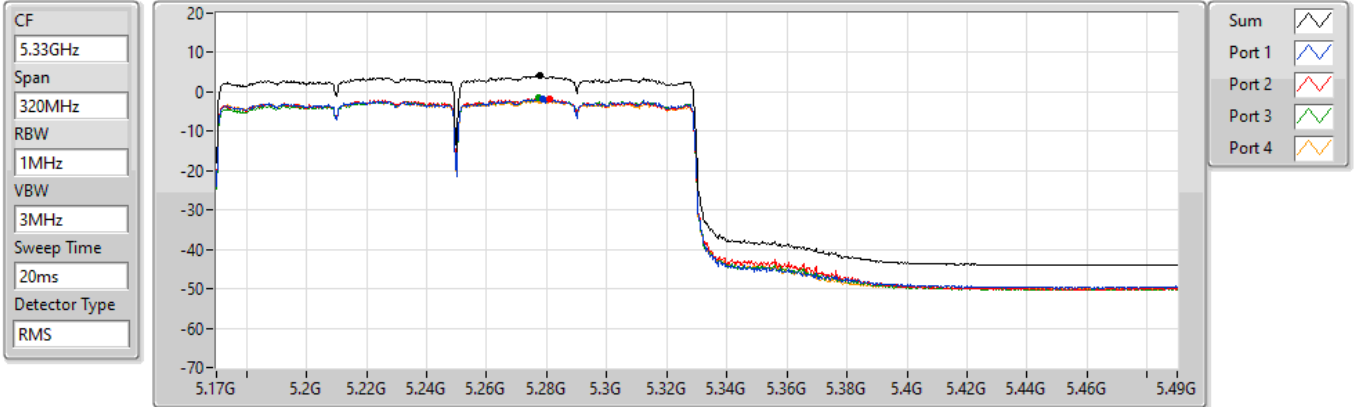


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

30/12/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.10	4.10	-1.97	-1.72	-1.61	-2.13



For UNII 2C and UNII 3:

Summary

Mode	PD (dBm/RBW)
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.00

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

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)_4TX	-	-	-	-	-	-	-	-
5500MHz	Pass	6.97	3.83	4.32	4.23	4.16	10.00	10.03
5580MHz	Pass	6.97	4.02	4.23	4.04	3.93	9.89	10.03
5700MHz	Pass	6.97	3.82	4.58	4.24	4.11	9.94	10.03
5720MHz Straddle 5.47-5.725GHz	Pass	6.97	3.78	4.24	4.00	3.78	9.84	10.03
5720MHz Straddle 5.725-5.85GHz	Pass	6.48	2.09	2.35	2.58	2.05	8.07	29.52

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;

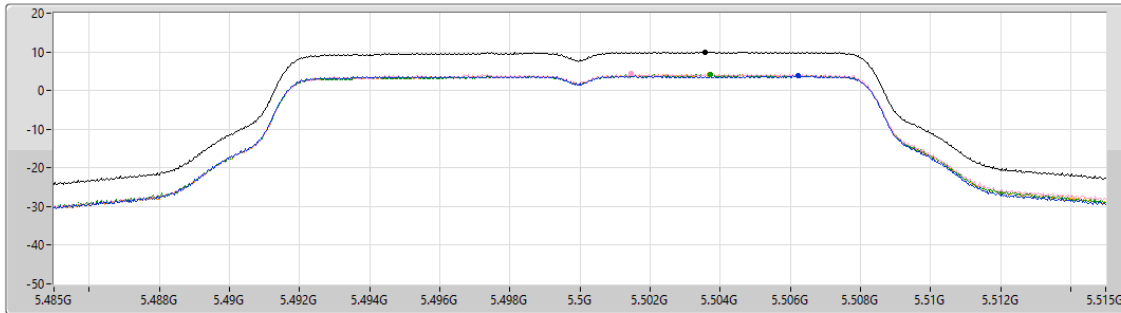
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

30/01/2024

CF (Hz)
5.5G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
21.726
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)
10.00	10.00	3.83	4.32	4.23	4.16

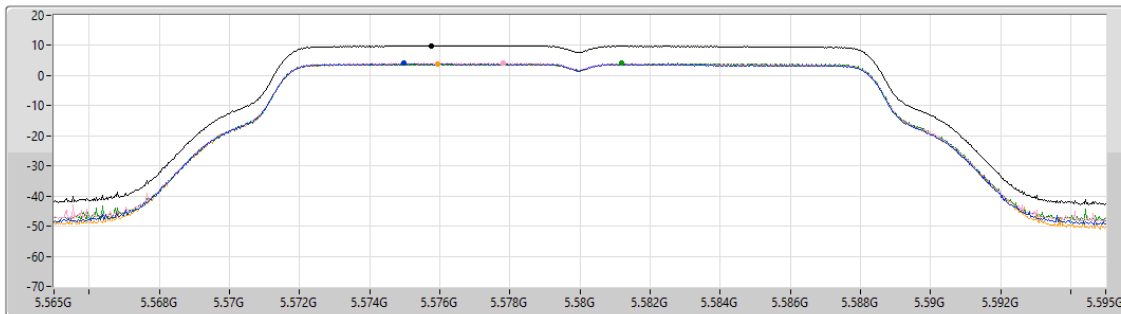
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

30/01/2024

CF (Hz)
5.58G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
21.726
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)
9.89	9.89	4.02	4.23	4.04	3.93

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

30/01/2024

CF (Hz)
5.7G

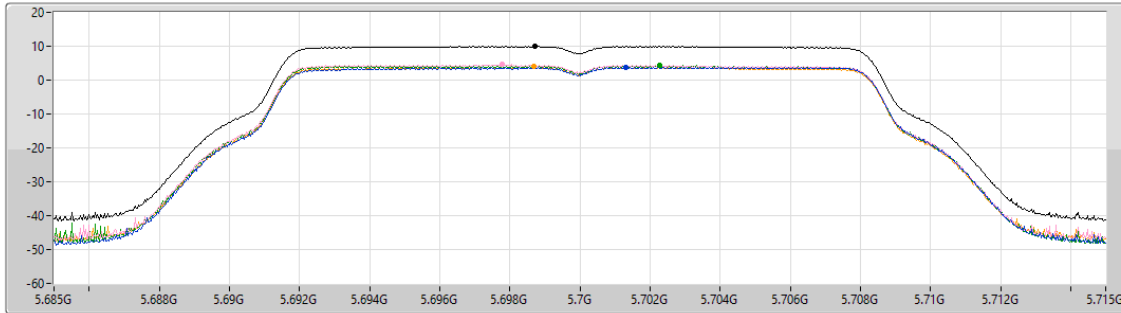
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
21.726

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.94	9.94	3.82	4.58	4.24	4.11

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

30/01/2024

CF (Hz)
5.71G

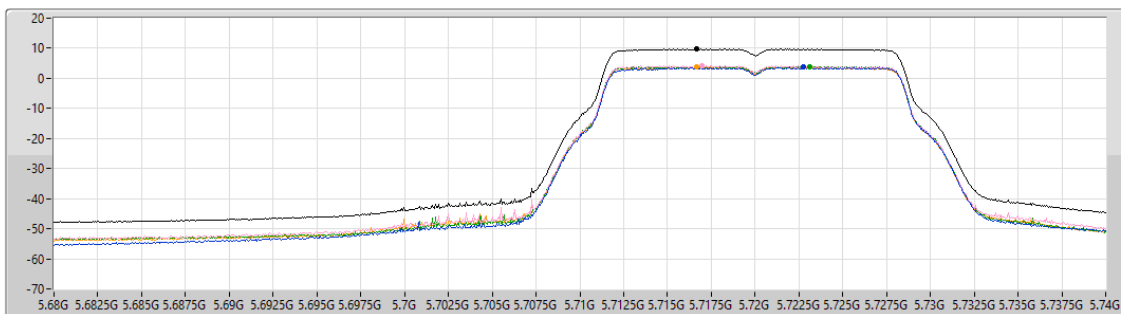
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
21.726

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

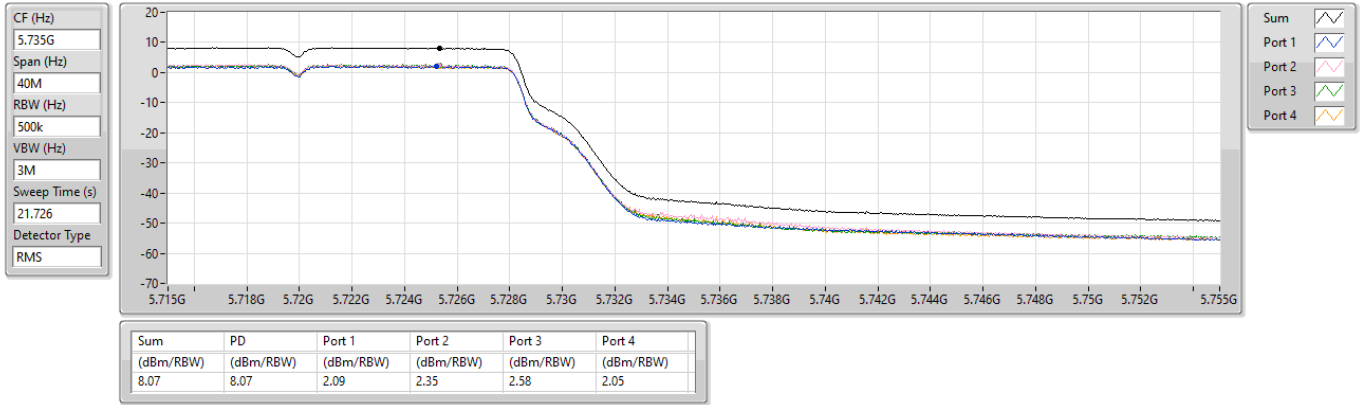
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.84	9.84	3.78	4.24	4.00	3.78

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

PSD

5720MHz Straddle 5.725-5.85GHz

30/01/2024



For UNII 2C and UNII 3:

Summary

Mode	PD (dBm/RBW)
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.20
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.51
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.51
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.86
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.36
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.33
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	8.59

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

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)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5500MHz	Pass	6.97	2.95	3.43	2.92	2.98	8.99	10.03
5580MHz	Pass	6.97	2.97	3.15	3.01	3.13	9.00	10.03
5700MHz	Pass	6.97	2.60	3.18	3.22	2.72	8.89	10.03
5720MHz Straddle 5.47-5.725GHz	Pass	6.97	3.15	3.41	3.40	3.21	9.20	10.03
5720MHz Straddle 5.725-5.85GHz	Pass	6.48	1.47	1.76	1.78	1.56	7.59	29.52
5745MHz	Pass	6.48	8.56	8.89	8.30	8.19	14.36	29.52
5785MHz	Pass	6.48	8.10	7.95	8.09	7.84	13.91	29.52
5825MHz	Pass	6.48	7.99	8.29	8.44	8.20	14.19	29.52
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5510MHz	Pass	6.97	0.01	0.43	0.68	0.49	6.33	10.03
5550MHz	Pass	6.97	-0.10	0.02	0.26	-0.03	6.01	10.03
5670MHz	Pass	6.97	0.09	0.46	0.71	0.02	6.25	10.03
5710MHz Straddle 5.47-5.725GHz	Pass	6.97	0.68	0.76	0.83	0.33	6.51	10.03
5710MHz Straddle 5.725-5.85GHz	Pass	6.48	-0.99	-1.39	-1.08	-1.76	4.66	29.52
5755MHz	Pass	6.48	5.41	5.27	5.55	5.04	11.16	29.52
5795MHz	Pass	6.48	5.35	5.45	5.69	5.28	11.33	29.52
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5530MHz	Pass	6.97	-2.44	-2.48	-2.53	-2.44	3.45	10.03
5610MHz	Pass	6.97	-2.17	-2.42	-2.08	-3.15	3.31	10.03
5690MHz Straddle 5.47-5.725GHz	Pass	6.97	-1.89	-2.25	-2.03	-2.62	3.51	10.03
5690MHz Straddle 5.725-5.85GHz	Pass	6.48	-3.45	-5.18	-4.95	-4.98	1.41	29.52
5775MHz	Pass	6.48	2.30	2.93	2.10	3.54	8.59	29.52
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5570MHz	Pass	6.97	-4.86	-5.03	-4.92	-5.12	0.86	10.03

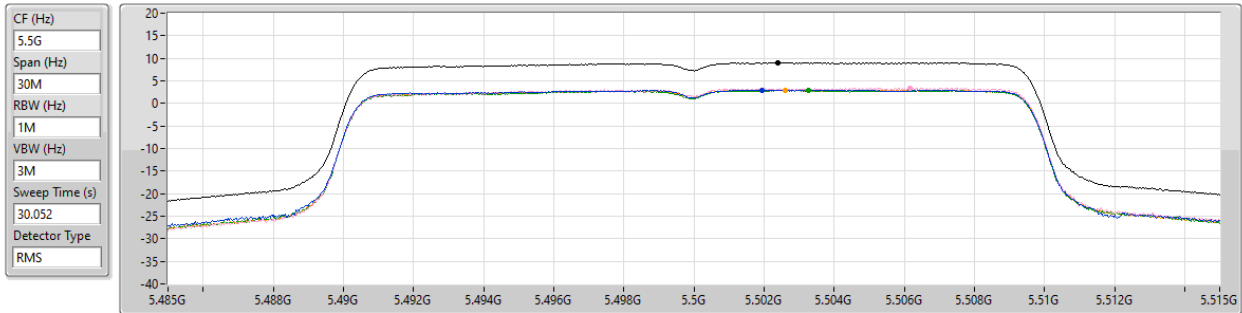
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

30/01/2024



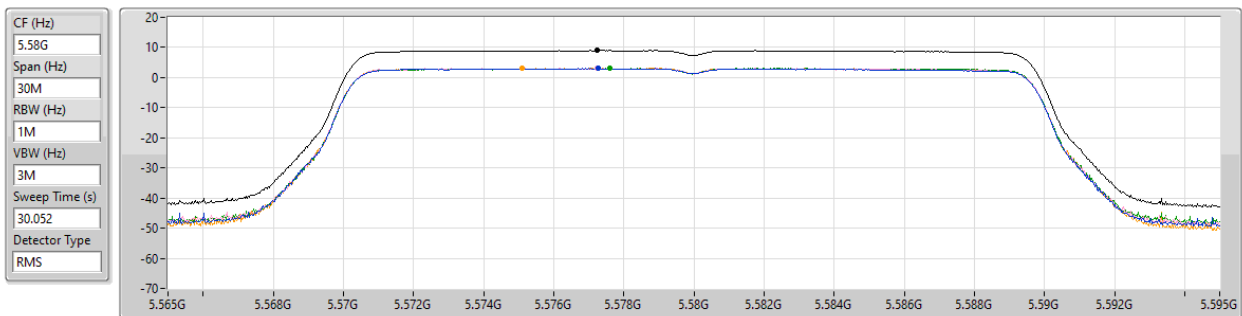
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.99	8.99	2.95	3.43	2.92	2.98

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

30/01/2024



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.00	9.00	2.97	3.15	3.01	3.13

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

30/01/2024

CF (Hz)
5.7G

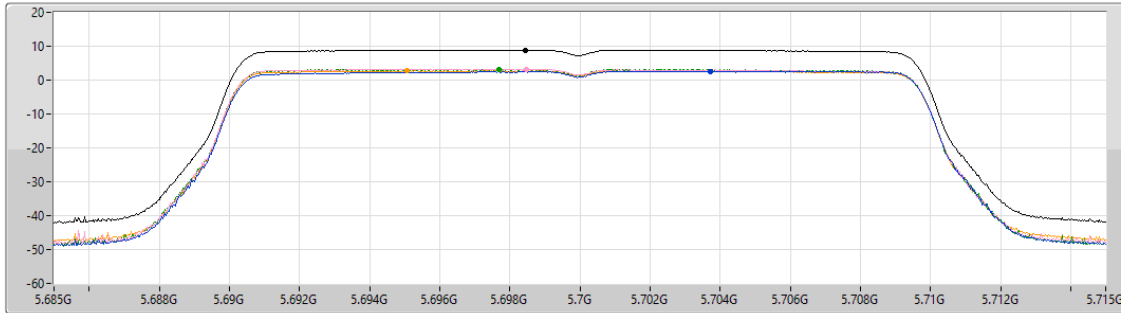
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
30.052

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)
8.89	8.89	2.60	3.18	3.22	2.72

5.47-5.725GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

30/01/2024

CF (Hz)
5.71G

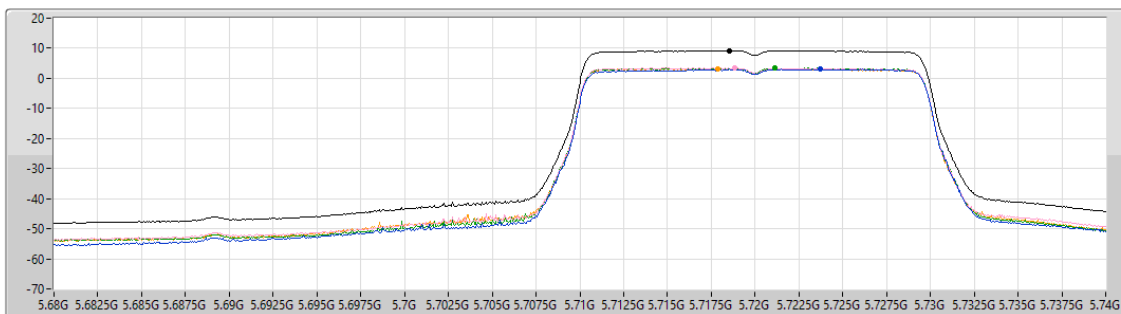
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
30.052

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

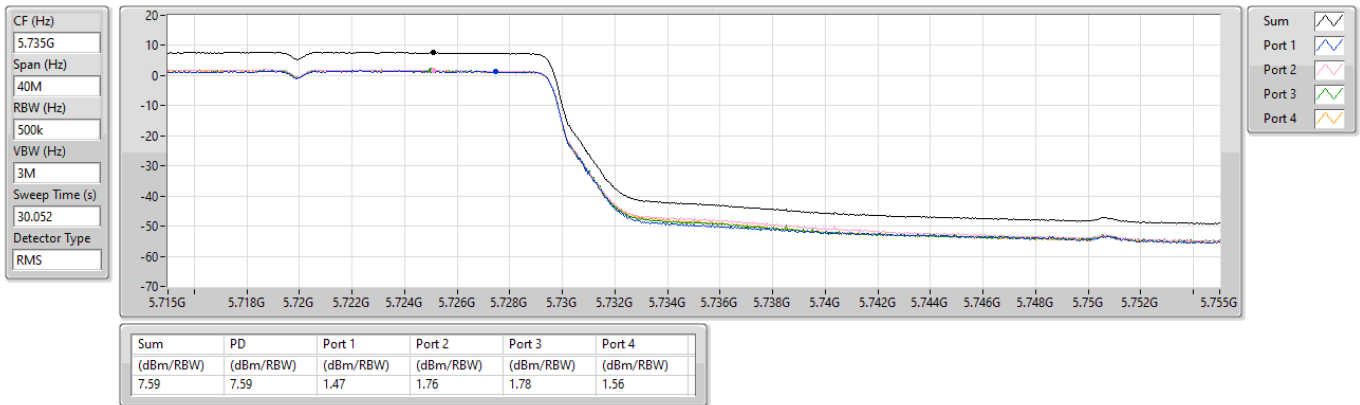
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.20	9.20	3.15	3.41	3.40	3.21

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

30/01/2024

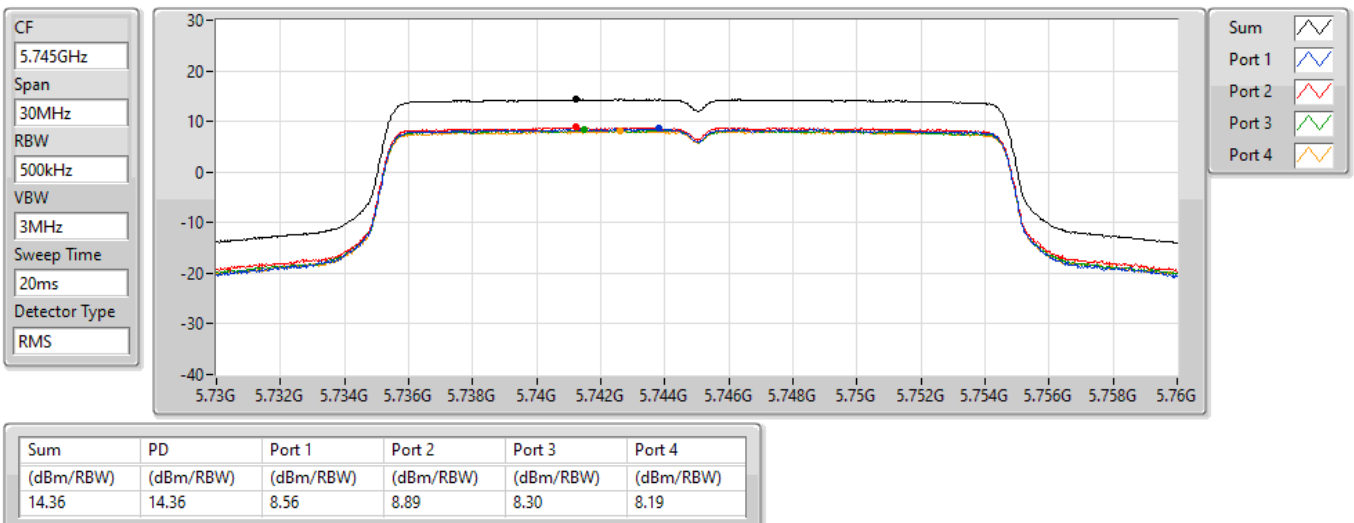


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5745MHz

30/12/2021

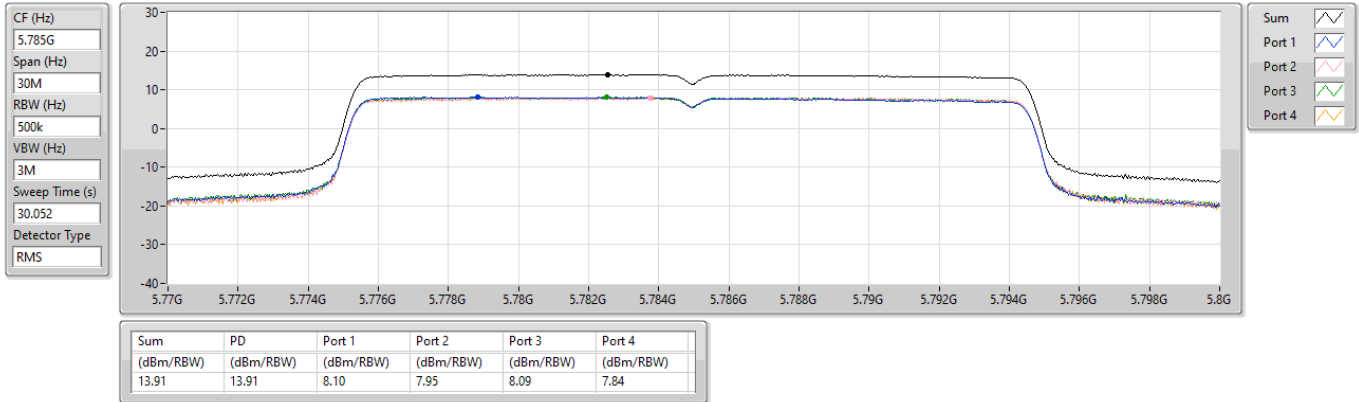


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

30/01/2024

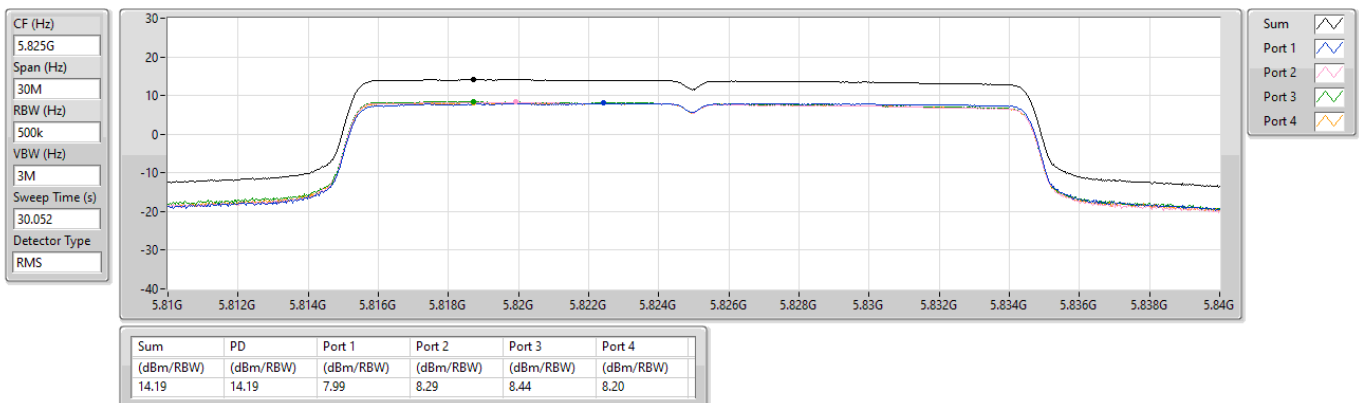


5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

30/01/2024

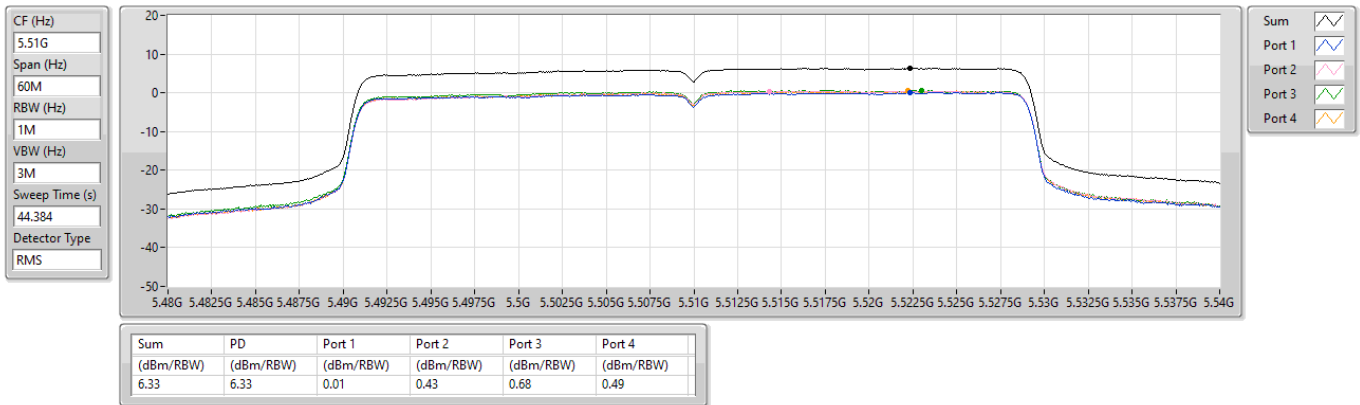


5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

30/01/2024

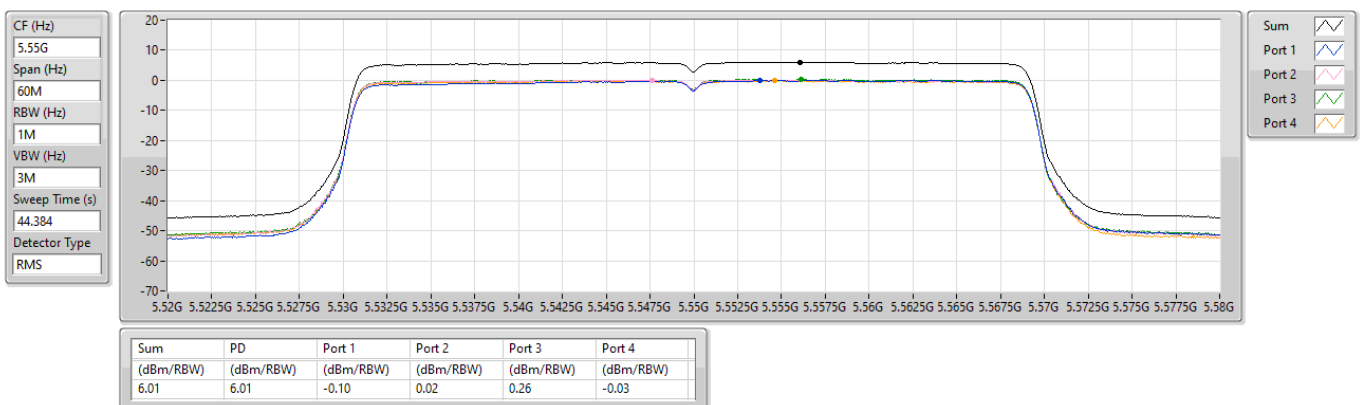


5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

30/01/2024



5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

30/01/2024

CF (Hz)
5.67G

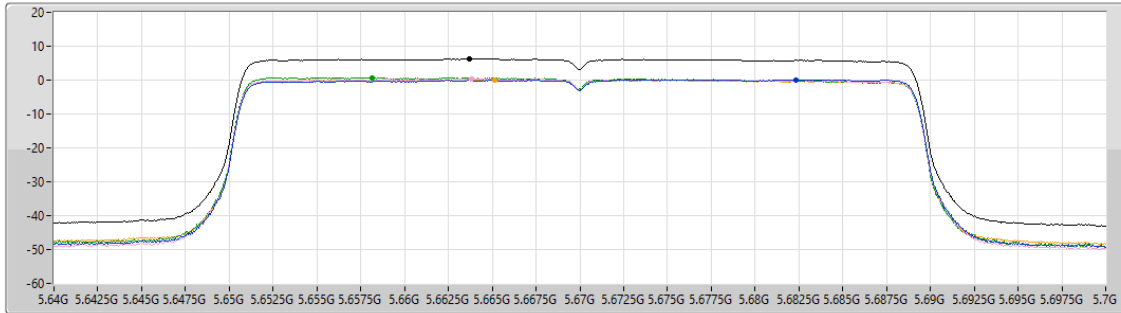
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
44.384

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)
6.25	6.25	0.09	0.46	0.71	0.02

5.47-5.725GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

30/01/2024

CF (Hz)
5.69G

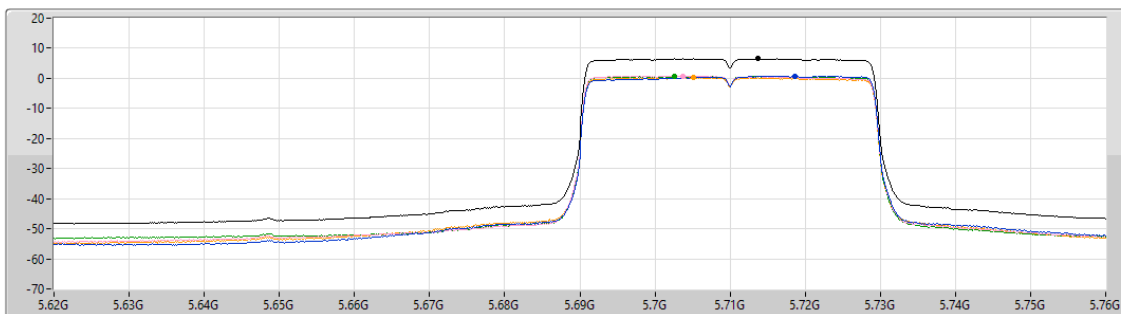
Span (Hz)
140M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
44.384

Detector Type
RMS



Sum

Port 1

Port 2

Port 3

Port 4

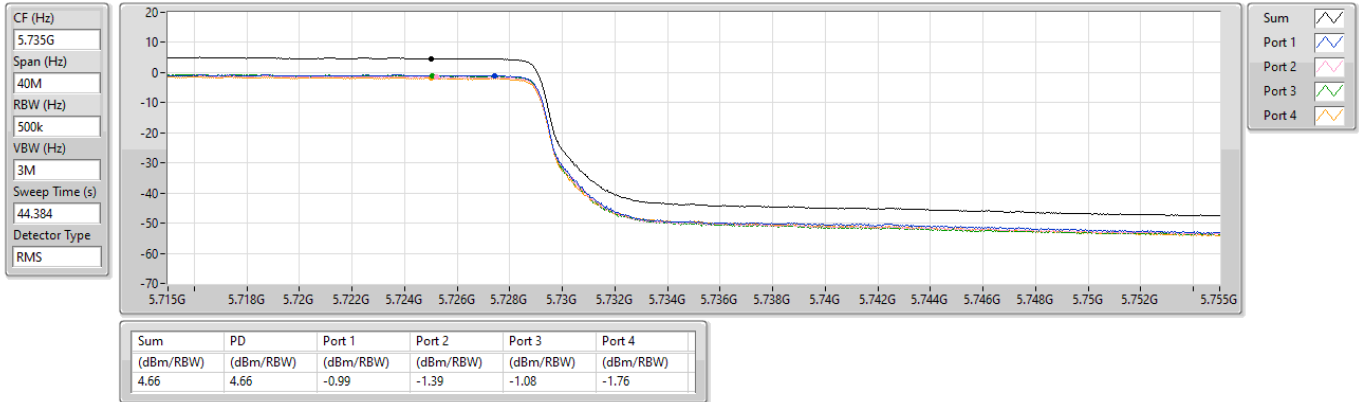
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.51	6.51	0.68	0.76	0.83	0.33

5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

30/01/2024

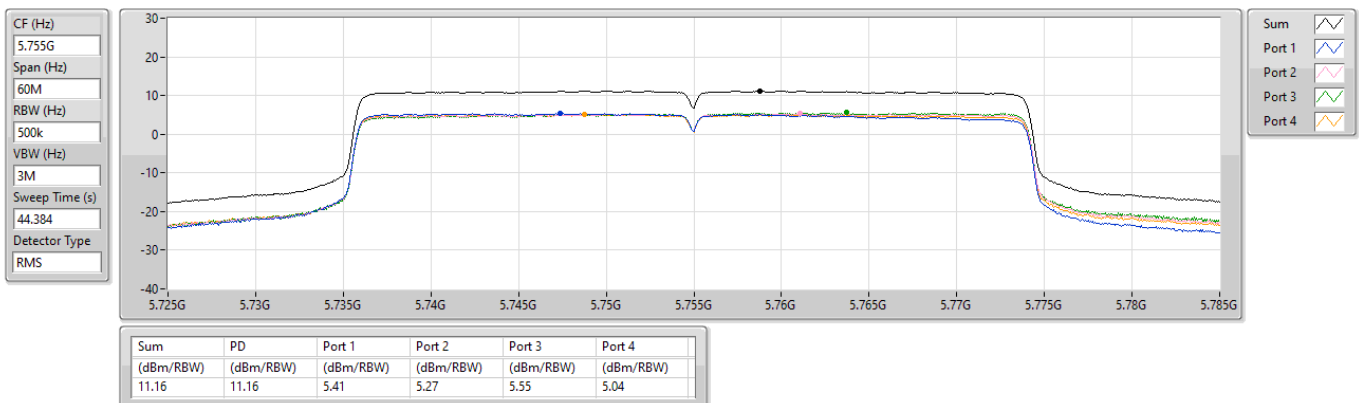


5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5755MHz

31/01/2024



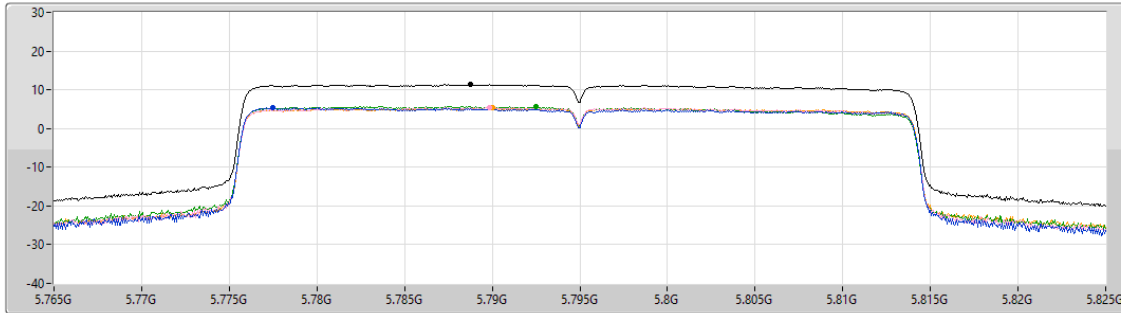
5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

31/01/2024

CF (Hz)
5.795G
Span (Hz)
60M
RBW (Hz)
500k
VBW (Hz)
3M
Sweep Time (s)
44.384
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.33	11.33	5.35	5.45	5.69	5.28

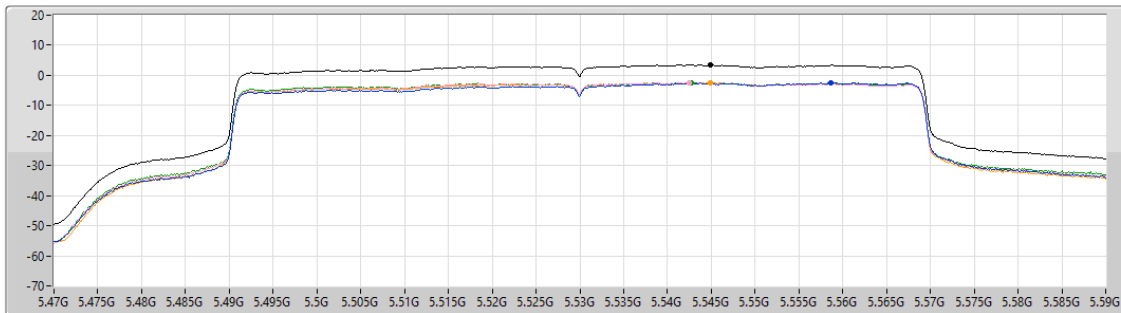
5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

31/01/2024

CF (Hz)
5.53G
Span (Hz)
120M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
42.197
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.45	3.45	-2.44	-2.48	-2.53	-2.44

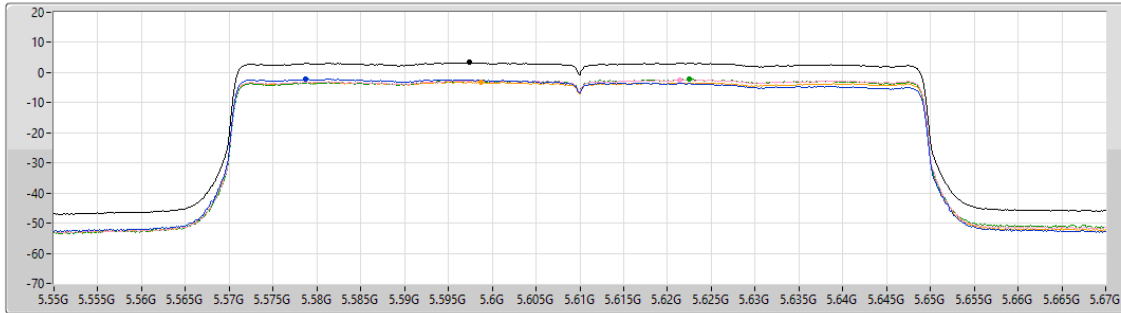
5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

31/01/2024

CF (Hz)
5.61G
Span (Hz)
120M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
42.197
Detector Type
RMS



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.31	3.31	-2.17	-2.42	-2.08	-3.15

Sum
Port 1
Port 2
Port 3
Port 4

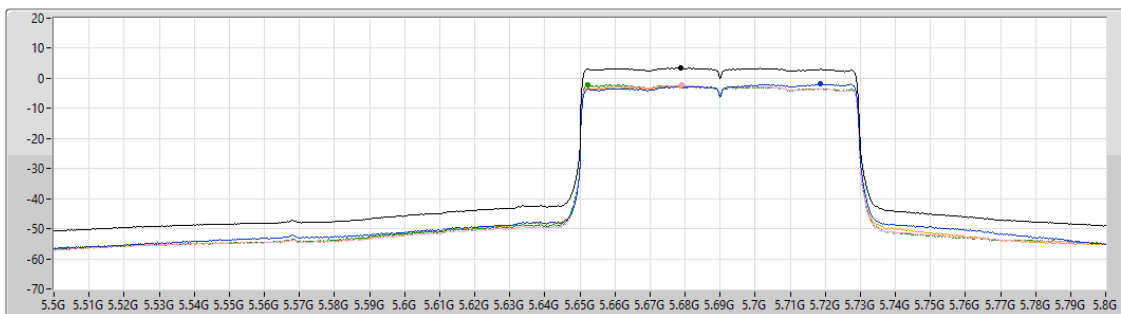
5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

31/01/2024

CF (Hz)
5.65G
Span (Hz)
300M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
42.197
Detector Type
RMS



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.51	3.51	-1.89	-2.25	-2.03	-2.62

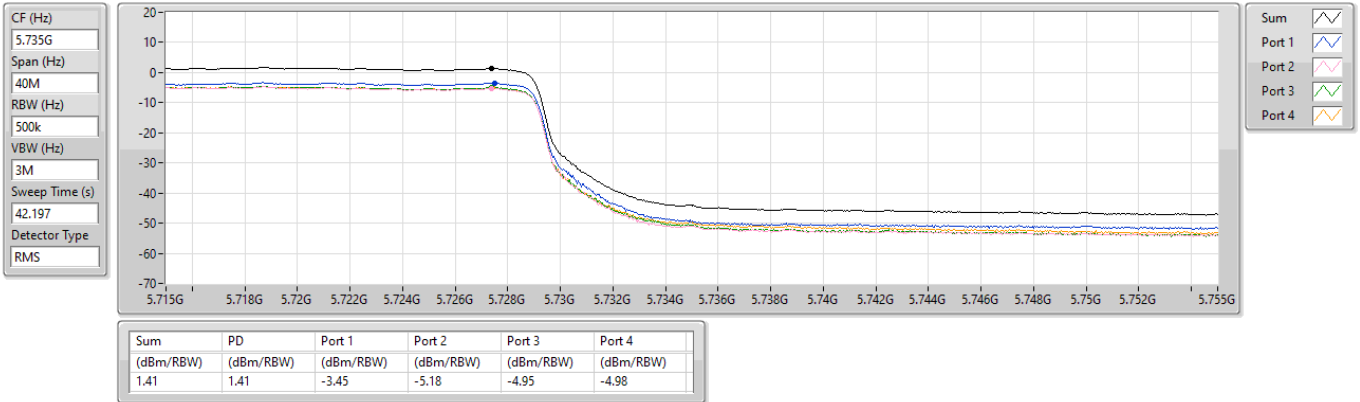
Sum
Port 1
Port 2
Port 3
Port 4

5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

31/01/2024

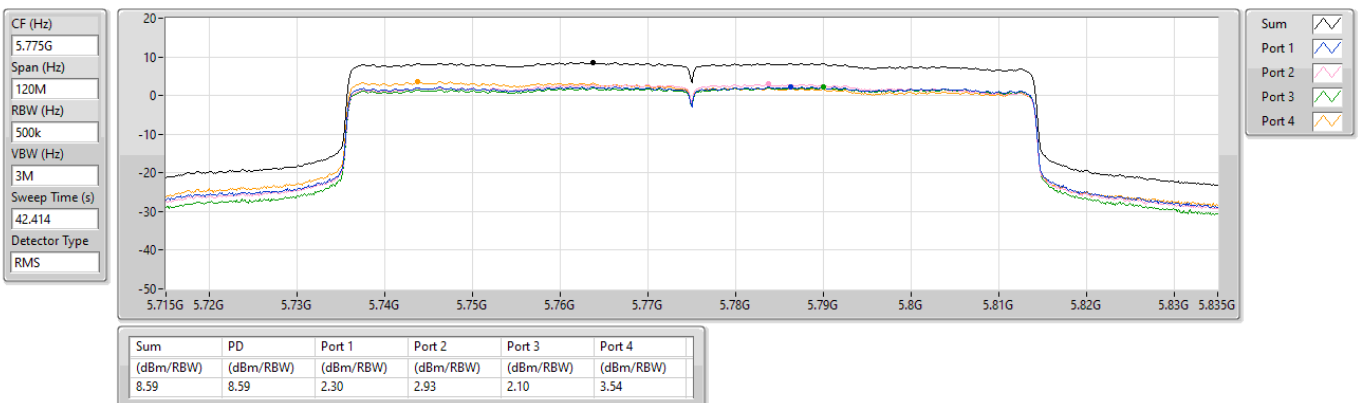


5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

29/01/2024



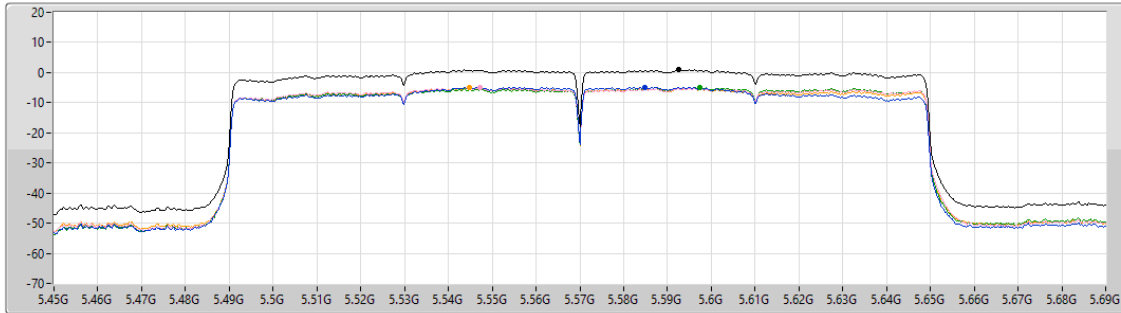
5.47-5.725GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5570MHz

31/01/2024

CF (Hz)
5.57G
Span (Hz)
240M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
50.625
Detector Type
RMS



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.86	0.86	-4.86	-5.03	-4.92	-5.12



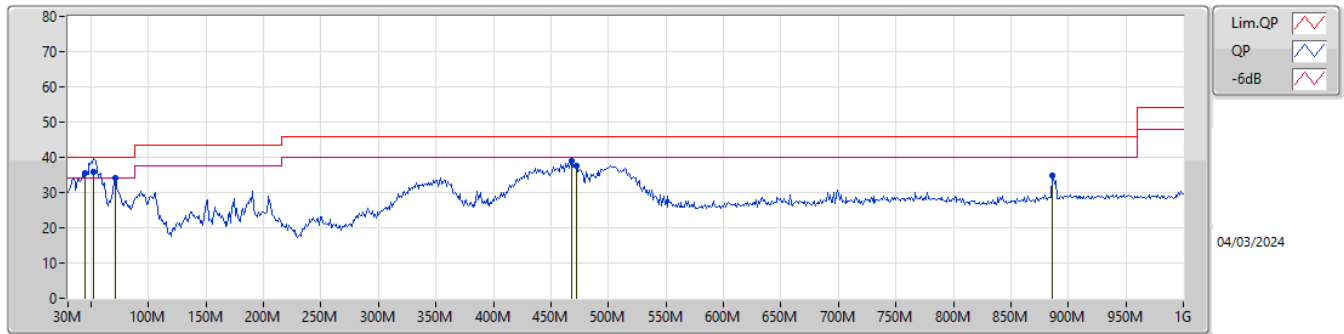
Radiated Emissions below 1GHz

Appendix D.1

Summary

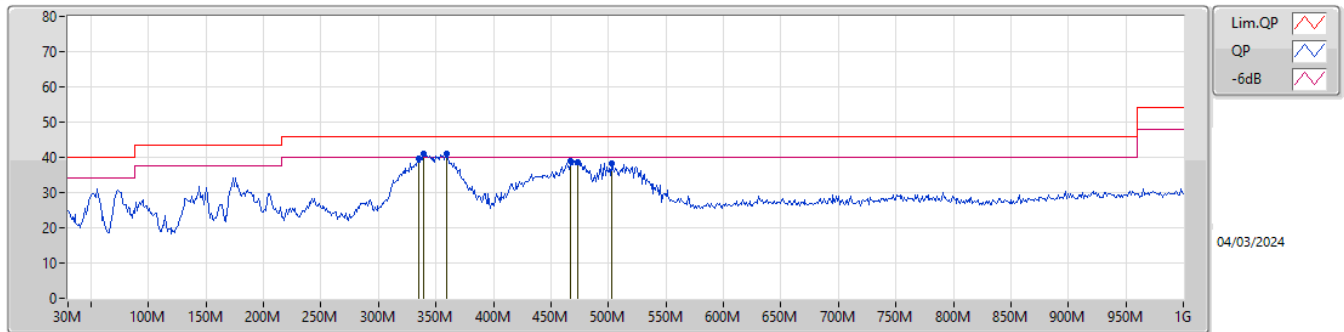
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	52.31M	35.87	40.00	-4.13	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
QP	44.55M	35.50	40.00	-4.50	-14.20	3	Vertical	308	1.00	-	49.70	16.86	1.30	32.36		
QP	52.31M	35.87	40.00	-4.13	-17.23	3	Vertical	356	3.00	"Worst"	53.10	13.74	1.35	32.32		
PK	70.74M	34.14	40.00	-5.86	-18.42	3	Vertical	360	3.00	-	52.56	12.39	1.48	32.29		
PK	468.44M	38.86	46.00	-7.14	-5.89	3	Vertical	92	1.25	-	44.75	23.01	3.16	32.06		
PK	472.32M	37.60	46.00	-8.40	-5.81	3	Vertical	101	1.25	-	43.41	23.07	3.17	32.05		
PK	885.54M	35.00	46.00	-11.00	-1.11	3	Vertical	306	1.25	-	36.11	26.33	4.27	31.71		

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	334.58M	39.71	46.00	-6.29	-9.55	3	Horizontal	154	1.00	-	49.26	19.59	2.73	31.87		
PK	339.43M	41.20	46.00	-4.80	-9.39	3	Horizontal	154	1.00	"Worst"	50.59	19.72	2.75	31.86		
PK	358.83M	40.91	46.00	-5.09	-8.42	3	Horizontal	171	1.25	-	49.33	20.62	2.83	31.87		
PK	467.47M	39.02	46.00	-6.98	-5.92	3	Horizontal	326	1.00	-	44.94	22.98	3.16	32.06		
PK	473.29M	38.76	46.00	-7.24	-5.78	3	Horizontal	309	1.00	-	44.54	23.09	3.18	32.05		
PK	502.39M	38.35	46.00	-7.65	-5.35	3	Horizontal	309	1.00	-	43.70	23.43	3.26	32.04		

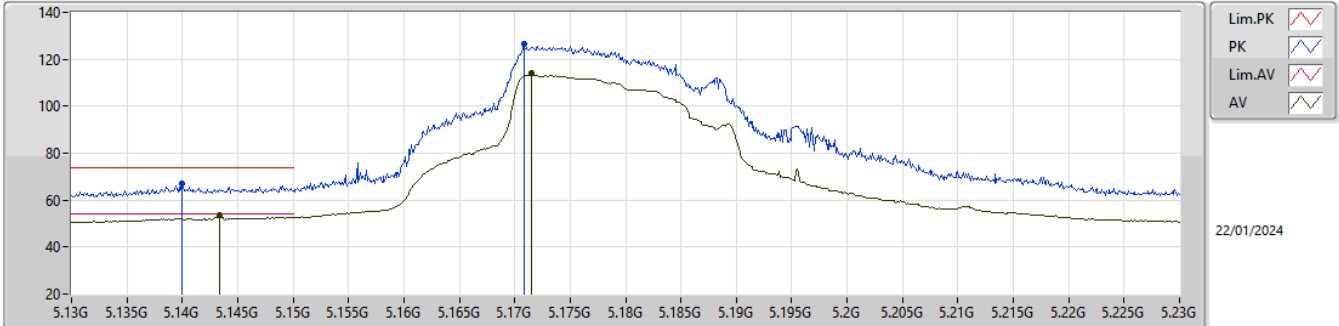


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	PK	5.15G	73.81	74.00	-0.19	3	Vertical	236	1.79	-

5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

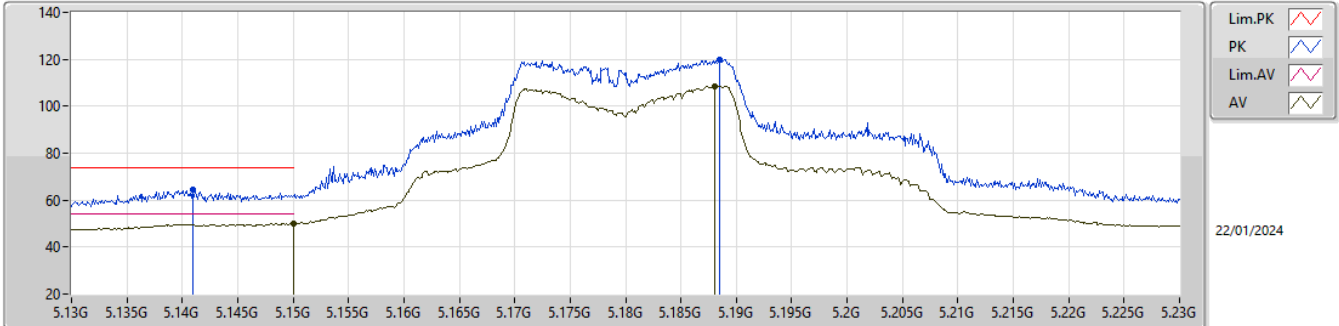


EUT_Z_4TX
Setting 93
06-D-S-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.14G	67.21	74.00	-6.79	59.56	3	Vertical	231	1.69	-	32.10	6.91	31.36			
AV	5.1434G	53.48	54.00	-0.52	45.83	3	Vertical	231	1.69	-	32.10	6.91	31.36			
PK	5.1708G	126.69	Inf	-Inf	119.15	3	Vertical	231	1.69	-	31.98	6.93	31.37			
AV	5.1715G	114.15	Inf	-Inf	106.62	3	Vertical	231	1.69	-	31.97	6.93	31.37			

5.15-5.25GHz_802.11ax_HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

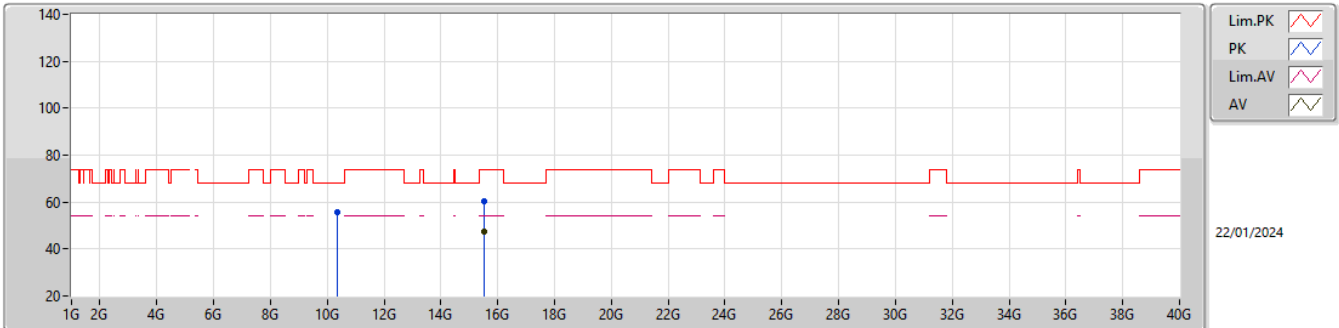


EUT_Z_4TX
Setting 93
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.1409G	64.42	74.00	-9.58	59.55	3	Horizontal	213	2.70	-	33.00	7.39	35.52			
AV	5.15G	49.97	54.00	-4.03	45.09	3	Horizontal	213	2.70	-	33.00	7.40	35.52			
PK	5.1885G	119.92	Inf	-Inf	114.91	3	Horizontal	213	2.70	-	33.08	7.44	35.51			
AV	5.1881G	108.62	Inf	-Inf	103.61	3	Horizontal	213	2.70	-	33.08	7.44	35.51			

5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

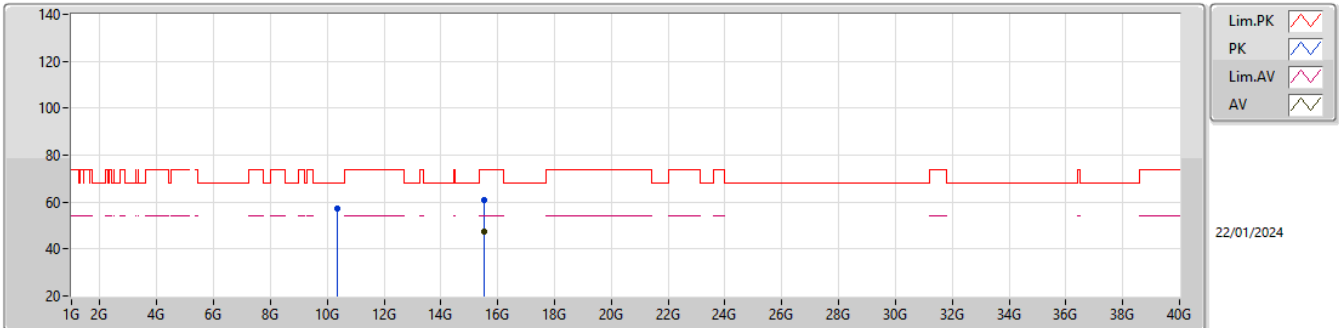


EUT_Z_4TX
Setting 93
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.3552G	55.82	68.20	-12.38	40.36	3	Vertical	10	1.80	-	38.71	10.35	33.60			
PK	15.53794G	60.19	74.00	-13.81	43.17	3	Vertical	359	2.57	-	38.27	12.28	33.53			
AV	15.53132G	47.32	54.00	-6.68	30.28	3	Vertical	359	2.57	-	38.31	12.27	33.54			

5.15-5.25GHz_802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

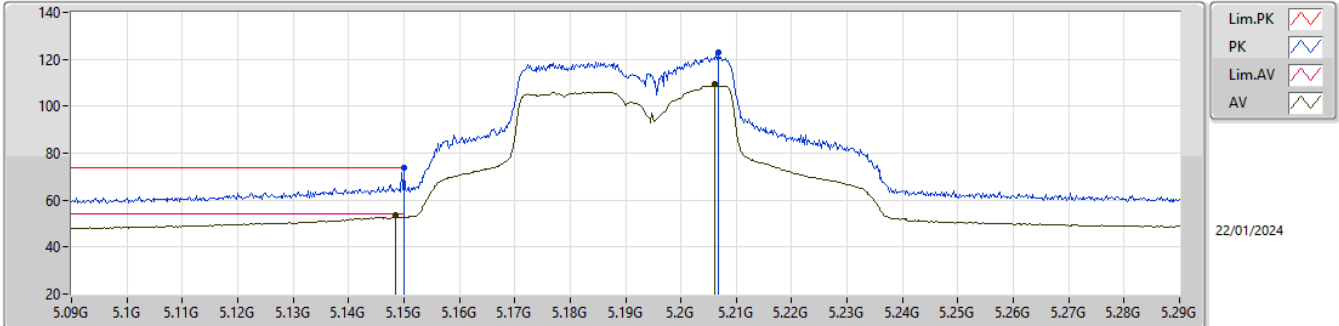


EUT_Z_4TX
Setting 93
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.3508G	57.44	68.20	-10.76	41.99	3	Horizontal	19	1.23	-	38.70	10.34	33.59			
PK	15.5424G	60.70	74.00	-13.30	43.70	3	Horizontal	233	1.37	-	38.25	12.28	33.53			
AV	15.53166G	47.47	54.00	-6.53	30.43	3	Horizontal	233	1.37	-	38.31	12.27	33.54			

5.15-5.25GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

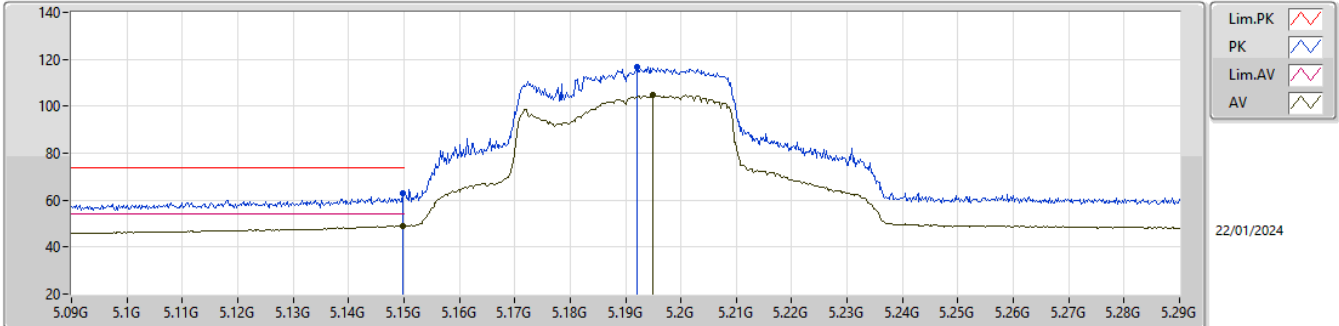


EUT_Z_4TX
Setting 86
06-D-S-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.15G	73.81	74.00	-0.19	66.15	3	Vertical	236	1.79	-	32.10	6.92	31.36			
AV	5.1484G	53.66	54.00	-0.34	46.01	3	Vertical	236	1.79	-	32.10	6.91	31.36			
PK	5.2068G	122.74	Inf	-Inf	115.41	3	Vertical	236	1.79	-	31.77	6.95	31.39			
AV	5.206G	109.41	Inf	-Inf	102.08	3	Vertical	236	1.79	-	31.78	6.94	31.39			

5.15-5.25GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

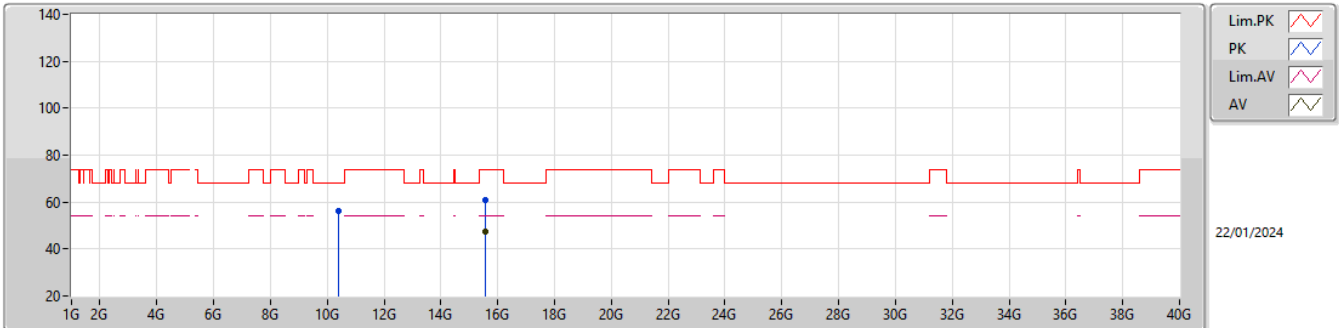


EUT_Z_4TX
Setting 86
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.1498G	62.81	74.00	-11.19	57.93	3	Horizontal	216	2.80	-	33.00	7.40	35.52			
AV	5.1498G	49.15	54.00	-4.85	44.27	3	Horizontal	216	2.80	-	33.00	7.40	35.52			
PK	5.192G	116.78	Inf	-Inf	111.77	3	Horizontal	216	2.80	-	33.08	7.44	35.51			
AV	5.195G	104.63	Inf	-Inf	99.60	3	Horizontal	216	2.80	-	33.09	7.45	35.51			

5.15-5.25GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

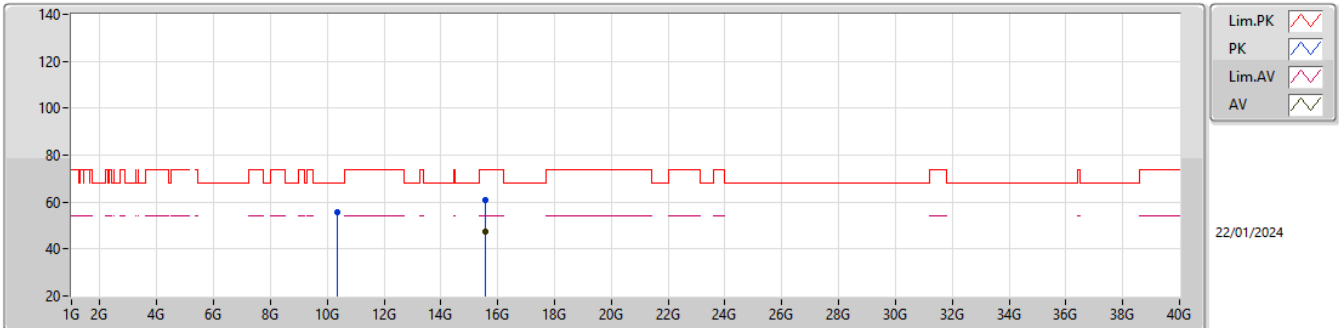


EUT_Z_4TX
Setting 86
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.38204G	56.03	68.20	-12.17	40.55	3	Vertical	114	1.80	-	38.76	10.36	33.64			
PK	15.56642G	60.97	74.00	-13.03	44.05	3	Vertical	211	1.23	-	38.13	12.28	33.49			
AV	15.57964G	47.38	54.00	-6.62	30.48	3	Vertical	211	1.23	-	38.08	12.29	33.47			

5.15-5.25GHz_802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

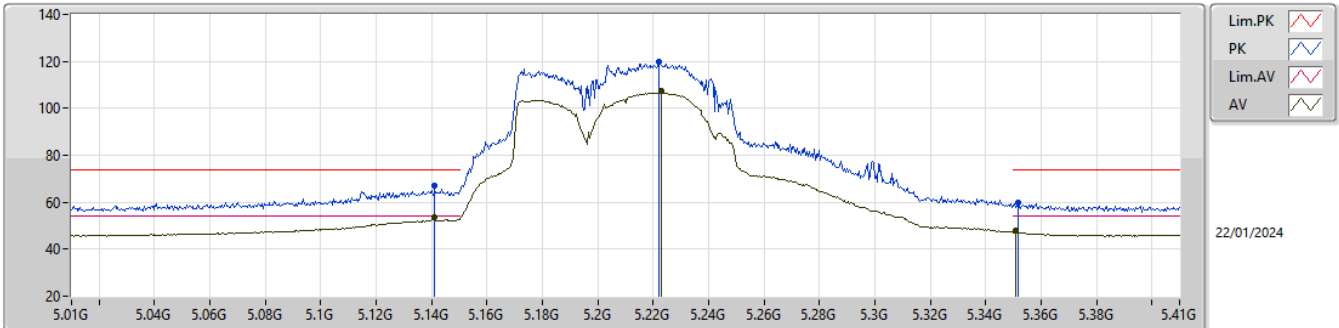


EUT_Z_4TX
Setting 86
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.37206G	55.51	68.20	-12.69	40.04	3	Horizontal	53	1.56	-	38.74	10.35	33.62			
PK	15.57112G	61.05	74.00	-12.95	44.12	3	Horizontal	332	1.51	-	38.12	12.29	33.48			
AV	15.57962G	47.46	54.00	-6.54	30.56	3	Horizontal	332	1.51	-	38.08	12.29	33.47			

5.15-5.25GHz_802.11ax_HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

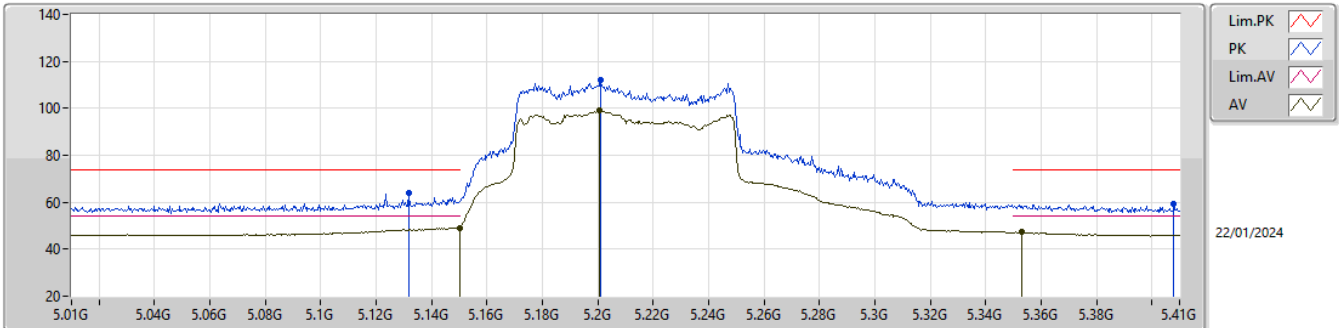


EUT_Z_4TX
Setting 89
06-D-S-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.1412G	66.96	74.00	-7.04	59.31	3	Vertical	338	1.66	-	32.10	6.91	31.36			
AV	5.1408G	53.79	54.00	-0.21	46.14	3	Vertical	338	1.66	-	32.10	6.91	31.36			
PK	5.222G	119.91	Inf	-Inf	112.64	3	Vertical	338	1.66	-	31.71	6.96	31.40			
AV	5.2228G	107.58	Inf	-Inf	100.31	3	Vertical	338	1.66	-	31.71	6.96	31.40			
PK	5.3516G	59.95	74.00	-14.05	52.87	3	Vertical	338	1.66	-	31.50	7.05	31.47			
AV	5.3508G	47.81	54.00	-6.19	40.73	3	Vertical	338	1.66	-	31.50	7.05	31.47			

5.15-5.25GHz_802.11ax_HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

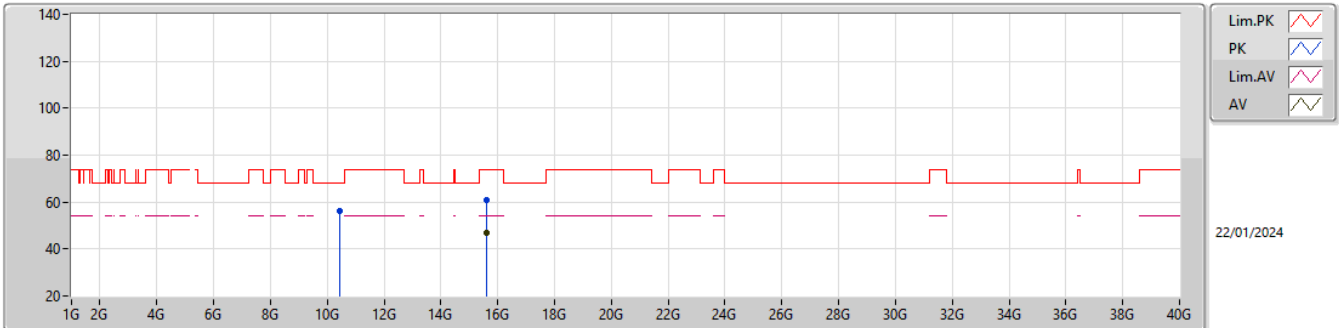


EUT_Z_4TX
Setting 89
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.1316G	64.01	74.00	-9.99	59.14	3	Horizontal	319	2.72	-	33.00	7.39	35.52			
AV	5.15G	49.09	54.00	-4.91	44.21	3	Horizontal	319	2.72	-	33.00	7.40	35.52			
PK	5.2008G	111.86	Inf	-Inf	106.81	3	Horizontal	319	2.72	-	33.10	7.45	35.50			
AV	5.2004G	99.09	Inf	-Inf	94.04	3	Horizontal	319	2.72	-	33.10	7.45	35.50			
PK	5.408G	59.15	74.00	-14.85	54.16	3	Horizontal	319	2.72	-	32.88	7.56	35.45			
AV	5.3532G	47.20	54.00	-6.80	42.32	3	Horizontal	319	2.72	-	32.81	7.53	35.46			

5.15-5.25GHz_802.11ax_HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

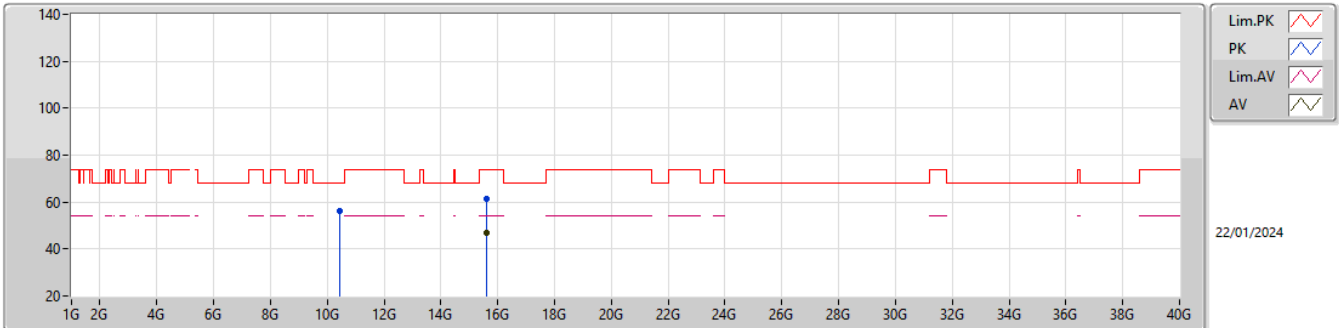


EUT_Z_4TX
Setting 89
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.42152G	56.17	68.20	-12.03	40.70	3	Vertical	10	1.17	-	38.80	10.38	33.71			
PK	15.62524G	60.71	74.00	-13.29	44.06	3	Vertical	55	1.76	-	37.75	12.30	33.40			
AV	15.62042G	47.06	54.00	-6.94	30.37	3	Vertical	55	1.76	-	37.80	12.30	33.41			

5.15-5.25GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

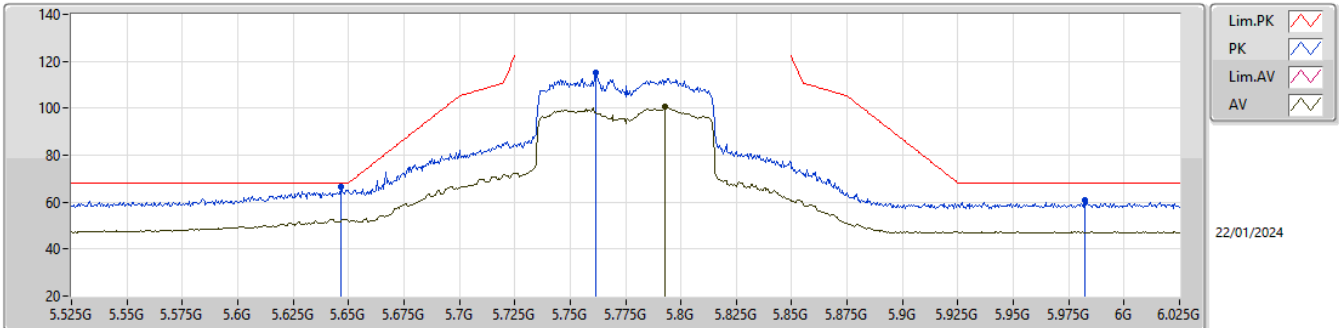


EUT_Z_4TX
Setting 89
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.42066G	56.18	68.20	-12.02	40.71	3	Horizontal	345	2.68	-	38.80	10.38	33.71			
PK	15.62646G	61.25	74.00	-12.75	44.61	3	Horizontal	345	1.24	-	37.74	12.30	33.40			
AV	15.62108G	47.03	54.00	-6.97	30.35	3	Horizontal	345	1.24	-	37.79	12.30	33.41			

5.725-5.85GHz_802.11ax_HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

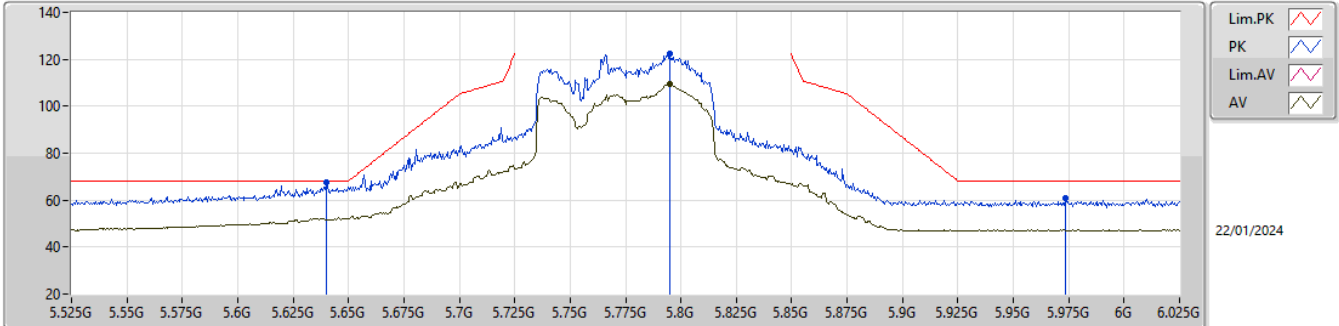


EUT_X_4TX
Setting 96
06-D-S-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.6465G	66.40	68.20	-1.80	59.00	3	Vertical	342	2.43	-	31.71	7.26	31.57			
PK	5.7615G	115.01	Inf	-Inf	107.01	3	Vertical	342	2.43	-	32.22	7.36	31.58			
AV	5.793G	100.83	Inf	-Inf	92.75	3	Vertical	342	2.43	-	32.29	7.38	31.59			
PK	5.9825G	60.66	68.20	-7.54	52.27	3	Vertical	342	2.43	-	32.54	7.46	31.61			

5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

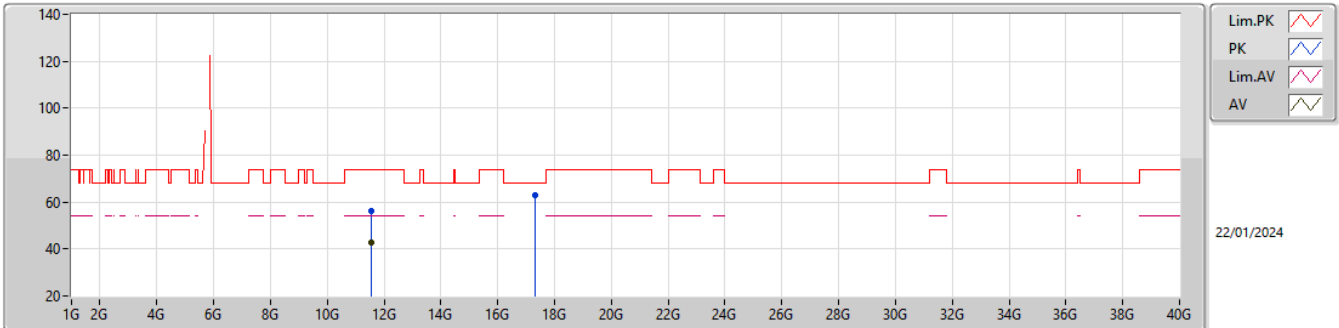


EUT X_4TX
Setting 96
06-D-S-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.64G	67.79	68.20	-0.41	60.39	3	Horizontal	82	1.80	-	31.72	7.25	31.57			
PK	5.795G	122.64	Inf	-Inf	114.55	3	Horizontal	82	1.80	-	32.29	7.39	31.59			
AV	5.795G	109.52	Inf	-Inf	101.43	3	Horizontal	82	1.80	-	32.29	7.39	31.59			
PK	5.9735G	60.69	68.20	-7.51	52.29	3	Horizontal	82	1.80	-	32.55	7.46	31.61			

5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

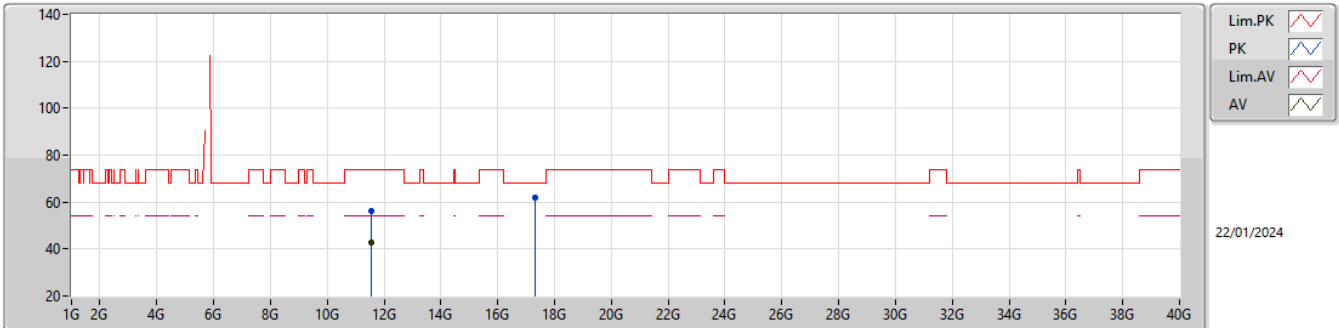


EUT_X_4TX
Setting 96
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	11.54402G	56.29	74.00	-17.71	39.55	3	Vertical	227	1.80	-	38.92	10.87	33.05			
AV	11.55978G	42.68	54.00	-11.32	26.00	3	Vertical	227	1.80	-	38.86	10.88	33.06			
PK	17.32664G	62.72	68.20	-5.48	44.00	3	Vertical	125	1.80	-	38.75	13.05	33.08			

5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

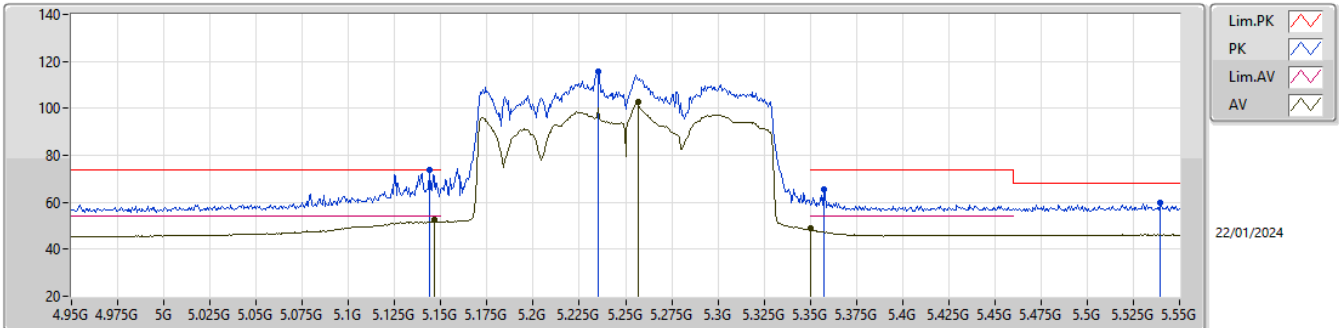


EUT_X_4TX
Setting 96
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	11.54374G	56.29	74.00	-17.71	39.54	3	Horizontal	37	2.68	-	38.93	10.87	33.05			
AV	11.55992G	42.88	54.00	-11.12	26.20	3	Horizontal	37	2.68	-	38.86	10.88	33.06			
PK	17.32784G	61.65	68.20	-6.55	42.92	3	Horizontal	239	1.05	-	38.76	13.05	33.08			

5.25-5.35GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz TX

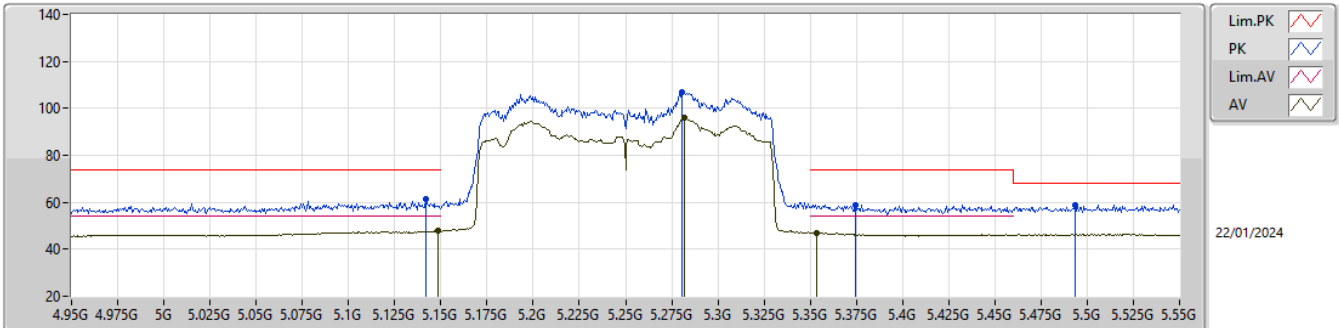


EUT_Z_4TX
Setting 74
06-D-S-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.1438G	73.57	74.00	-0.43	65.92	3	Vertical	218	1.62	-	32.10	6.91	31.36			
AV	5.1468G	52.63	54.00	-1.37	44.98	3	Vertical	218	1.62	-	32.10	6.91	31.36			
PK	5.235G	115.93	Inf	-Inf	108.71	3	Vertical	218	1.62	-	31.66	6.97	31.41			
AV	5.2566G	102.66	Inf	-Inf	95.51	3	Vertical	218	1.62	-	31.59	6.98	31.42			
PK	5.3574G	65.53	74.00	-8.47	58.43	3	Vertical	218	1.62	-	31.51	7.06	31.47			
AV	5.35G	48.84	54.00	-5.16	41.76	3	Vertical	218	1.62	-	31.50	7.05	31.47			
PK	5.3392G	59.92	68.20	-8.28	52.39	3	Vertical	218	1.62	-	31.90	7.18	31.55			

5.25-5.35GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz TX

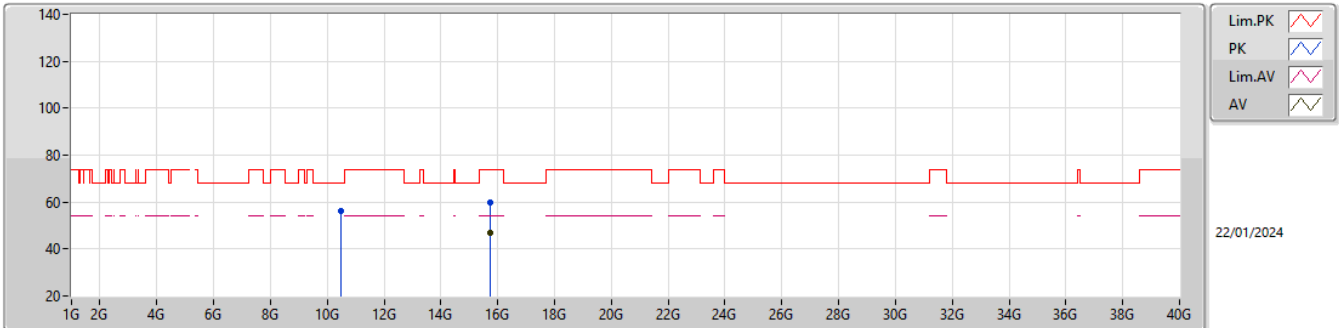


EUT_Z_4TX
Setting 74
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	5.142G	61.17	74.00	-12.83	56.30	3	Horizontal	329	2.65	-	33.00	7.39	35.52			
AV	5.1486G	47.91	54.00	-6.09	43.03	3	Horizontal	329	2.65	-	33.00	7.40	35.52			
PK	5.2806G	107.13	Inf	-Inf	102.18	3	Horizontal	329	2.65	-	32.94	7.49	35.48			
AV	5.2818G	96.03	Inf	-Inf	91.08	3	Horizontal	329	2.65	-	32.94	7.49	35.48			
PK	5.3748G	58.86	74.00	-15.14	53.93	3	Horizontal	329	2.65	-	32.85	7.54	35.46			
AV	5.3538G	47.01	54.00	-6.99	42.13	3	Horizontal	329	2.65	-	32.81	7.53	35.46			
PK	5.4936G	58.99	68.20	-9.21	53.90	3	Horizontal	329	2.65	-	32.89	7.62	35.42			

5.25-5.35GHz_802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz_TX

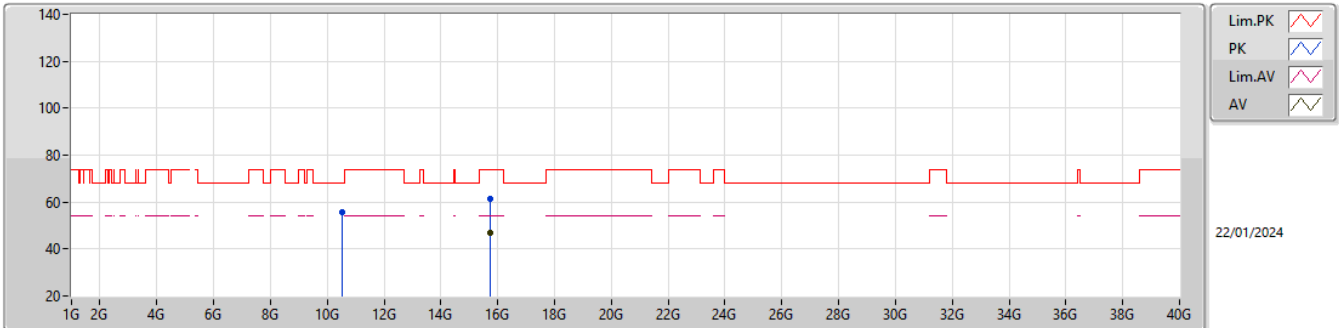


EUT_Z_4TX
Setting 74
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.4901G	56.01	68.20	-12.19	40.63	3	Vertical	84	1.80	-	38.80	10.41	33.83			
PK	15.75064G	60.00	74.00	-14.00	43.06	3	Vertical	86	1.26	-	37.80	12.35	33.21			
AV	15.74378G	46.71	54.00	-7.29	29.80	3	Vertical	86	1.26	-	37.79	12.34	33.22			

5.25-5.35GHz_802.11ax_HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz_TX



EUT_Z_4TX
Setting 74
05-E-G-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.508G	55.67	68.20	-12.53	40.30	3	Horizontal	109	2.57	-	38.80	10.41	33.84			
PK	15.74418G	61.15	74.00	-12.85	44.24	3	Horizontal	292	1.62	-	37.79	12.34	33.22			
AV	15.74214G	46.76	54.00	-7.24	29.86	3	Horizontal	292	1.62	-	37.78	12.34	33.22			