



RADIO TEST REPORT

FCC ID : MSQ-RTAXE5H00

Equipment : Wireless-AXE7800 Tri-band Gigabit Router

Brand Name : ASUS

Model Name : RT-AXE7800

Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan

Manufacturer (1) : Compal Networking(KunShan) CO., LTD
No.520,Nan Bang RD., Economic & Technical Development
Zone, KunShan,JiangSu,China

Manufacturer (2) : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.
Land plot No. D4-5-6, Thang Long Industrial Park (Vinh Phuc),
Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province,
Vietnam

Manufacturer (3) : ASKEY COMPUTER CORP
10F,No.119, JIANKANG RO., ZHONGHE DIST., NEW TAIPEI CITY
23585, TAIWAN, R.O.C.

Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 24, 2022, and testing was started from Feb. 14, 2022 and completed on Apr. 28, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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



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	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Sandy Chuang**

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	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.15-5.25GHz	802.11ac VHT160	160	4TX
5.15-5.25GHz	802.11ac VHT160-BF	160	4TX
5.15-5.25GHz	802.11ax HEW160	160	4TX
5.15-5.25GHz	802.11ax HEW160-BF	160	4TX
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX



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



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

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

Ant.	Port			Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz UNII1~UNII3	WLAN 6GHz UNII4 5-8					
1	2	-	2	INPAQ	RFDPA112110IMLB701	Dipole	I-PEX	Note1
2	1	-	1	INPAQ	RFDPA112116IMLB701	Dipole	I-PEX	
3	-	3	-	INPAQ	RFDPA112124IM5B701	Dipole	I-PEX	
4	-	2	-	INPAQ	RFDPA112110IM5B701	Dipole	I-PEX	
5	-	1	-	INPAQ	RFDPA112104IM5B701	Dipole	I-PEX	
6	-	4	-	INPAQ	RFDPA112118IM5B701	Dipole	I-PEX	

Note1:

<For WLAN 2.4G and 6GHz UNII4>

Ant.	Port		Gain (dBi)	
	WLAN 2.4GHz	WLAN 6GHz	WLAN 2.4GHz	WLAN 6GHz
1	2	2	2.047	2.416
2	1	1	1.602	2.291

Note 2: The above information was declared by manufacturer.

Note 3: The directional gain is measured which follows the procedure of KDB 662911 D01.

Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 2.047\ dBi ; G2 = 1.602\ dBi ; 2T1S\ DG = 4.838\ dBi ; 2T2S\ DG = 1.830\ dBi$$

**<For WLAN 5G UNII1~UNII3>**

The directional gain is measured which follows the procedure of KDB 662911 D03. The antenna report is provided in the operational description for this application.

Freq. Band (Hz)	UNII 1	UNII 2A	UNII2C	UNII3
Ant. 3 Max Gain (dBi)	2.34	1.62	2.93	2.31
Ant. 4 Max Gain (dBi)	2.21	1.46	1.58	2.44
Ant. 5 Max Gain (dBi)	1.67	2.02	1.66	2.18
Ant. 3 Max Gain (dBi)	2.06	1.75	2.15	1.85
DG [1SS] (dBi)	6.93	6.57	6.55	6.8
DG [2SS] (dBi)	3.93	3.57	3.55	3.8
DG [4SS] (dBi)	2.34	2.02	2.93	2.44

<For WLAN 2.4GHz function>**For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 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 WLAN 6GHz function>**For IEEE 802.11ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

<Non-beamforming mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.992	0.03	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

<Beamforming mode>

4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF	0.962	0.17	4.387m	300
802.11ax HEW40-BF	0.967	0.15	5.107m	300
802.11ax HEW80-BF	0.962	0.17	4.863m	300
802.11ax HEW160-BF	0.963	0.16	4.832m	300

4T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF	0.992	0.03	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40-BF	0.992	0.03	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW80-BF	0.992	0.03	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW160-BF	0.992	0.03	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

Note:

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

1.1.4 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
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	Conducted: accessMtool 3.2.1.1 Radiated: <Non-beamforming mode> accessMtool 3.2.1.1 <Beamforming mode> DOS [ver 6.1.7601] \ LanTest20(version 2.0.0.2)			

Note: The above information was declared by manufacturer.

1.1.5 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 1: From the above, after evaluating, AP Router was selected to test and record in the report.

Note 2: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

- ♦ FCC KDB 662911 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
RF Conducted	TH01-CB	Owen Hsu	24.5~24.6 / 60~63	Mar. 15, 2022~ Apr. 13, 2022
Radiated <Below 1GHz>	03CH03-CB	Eason Chen	24.2-26.1 / 55-58	Feb. 14, 2022~ Apr. 28, 2022
Radiated <Above 1GHz>	03CH06-CB	Eason Chen	23.5-24.6 / 55-59	Feb. 14, 2022~ Apr. 28, 2022
AC Conduction	CO01-CB	Joe Chu	20~22 / 60~62	Feb. 14, 2022



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	96
5200MHz	95
5240MHz	96
5260MHz	68
5300MHz	67
5320MHz	69
5500MHz	71
5580MHz	69
5700MHz	69
5720MHz Straddle 5.47-5.725GHz	69
5720MHz Straddle 5.725-5.85GHz	69
5745MHz	98
5785MHz	97
5825MHz	95

**<Beamforming mode>****4T1S**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	96
5200MHz	93
5240MHz	94
5260MHz	66
5300MHz	66
5320MHz	68
5500MHz	70
5580MHz	69
5700MHz	67
5720MHz Straddle 5.47-5.725GHz	67
5720MHz Straddle 5.725-5.85GHz	67
5745MHz	93
5785MHz	92
5825MHz	89
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	92
5230MHz	92
5270MHz	67
5310MHz	68
5510MHz	69
5550MHz	68
5670MHz	67
5710MHz Straddle 5.47-5.725GHz	68
5710MHz Straddle 5.725-5.85GHz	68
5755MHz	93
5795MHz	92
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	94
5290MHz	70
5530MHz	70
5610MHz	66
5690MHz Straddle 5.47-5.725GHz	66
5690MHz Straddle 5.725-5.85GHz	66
5775MHz	94
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	76
5250MHz Straddle 5.25-5.35GHz	76



Mode	Power Setting
5570MHz	66

4T2S

Mode	Power Setting
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-
5180MHz	98
5200MHz	97
5240MHz	97
5260MHz	68
5300MHz	67
5320MHz	70
5500MHz	72
5580MHz	70
5700MHz	69
5720MHz Straddle 5.47-5.725GHz	69
5720MHz Straddle 5.725-5.85GHz	69
5745MHz	97
5785MHz	95
5825MHz	93
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-
5190MHz	94
5230MHz	96
5270MHz	69
5310MHz	70
5510MHz	72
5550MHz	70
5670MHz	69
5710MHz Straddle 5.47-5.725GHz	71
5710MHz Straddle 5.725-5.85GHz	71
5755MHz	97
5795MHz	96
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-
5210MHz	95
5290MHz	72
5530MHz	72
5610MHz	69
5690MHz Straddle 5.47-5.725GHz	70
5690MHz Straddle 5.725-5.85GHz	70
5775MHz	97
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-



Mode	Power Setting
5250MHz Straddle 5.15-5.25GHz	78
5250MHz Straddle 5.25-5.35GHz	78
5570MHz	69

Note:

1. 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. There are two modes of EUT for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz and ax in 6GHz. 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.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter 1
2	EUT + Adapter 2
Mode 1 generated the worst test result, so it was recorded in this report.	

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

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
	The EUT can be placed in X axis, Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Unwanted Emissions <Above 1GHz>; thus, the measurement will follow this same test configuration.
1	EUT in Z axis + WLAN 2.4GHz + Adapter 1
2	EUT in Z axis + WLAN 2.4GHz + Adapter 2
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 4 will follow this same test mode.	
3	EUT in Z axis + WLAN 5GHz + Adapter 1
4	EUT in Z axis + WLAN 6GHz + Adapter 1
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT_WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz
Refer to Sporton Test Report No.: FA212407 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 [ver 6.1.7601], 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%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	LEI	MU36D1120300-A1	Input: 100-240V~50/60Hz, 1.0A Output: 12V, 3A
Adapter 2	APD	WA-36N12FU	Input: 100-240V, 50-60Hz, 0.9A Max. Output: 12.0V, 3.0A
Others			
RJ-45 cable*1: Non-Shielded, 1.5m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN 1 NB	DELL	E6430	N/A
B	WAN 2.5G PC	DELL	T3400	N/A
C	LAN 4 NB	DELL	E6430	N/A
D	2.4G NB	DELL	E6430	N/A
E	5G NB	DELL	E6430	N/A
F	6E Router	ASUS	GT-AXE7800	N/A
G	6E Router NB	DELL	E6430	N/A
H	HDD3.0	WD	WDBACY5000AWT	N/A

For Radiated <below 1GHz> and Radiated <above 1GHz / Non-beamforming mode>:

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

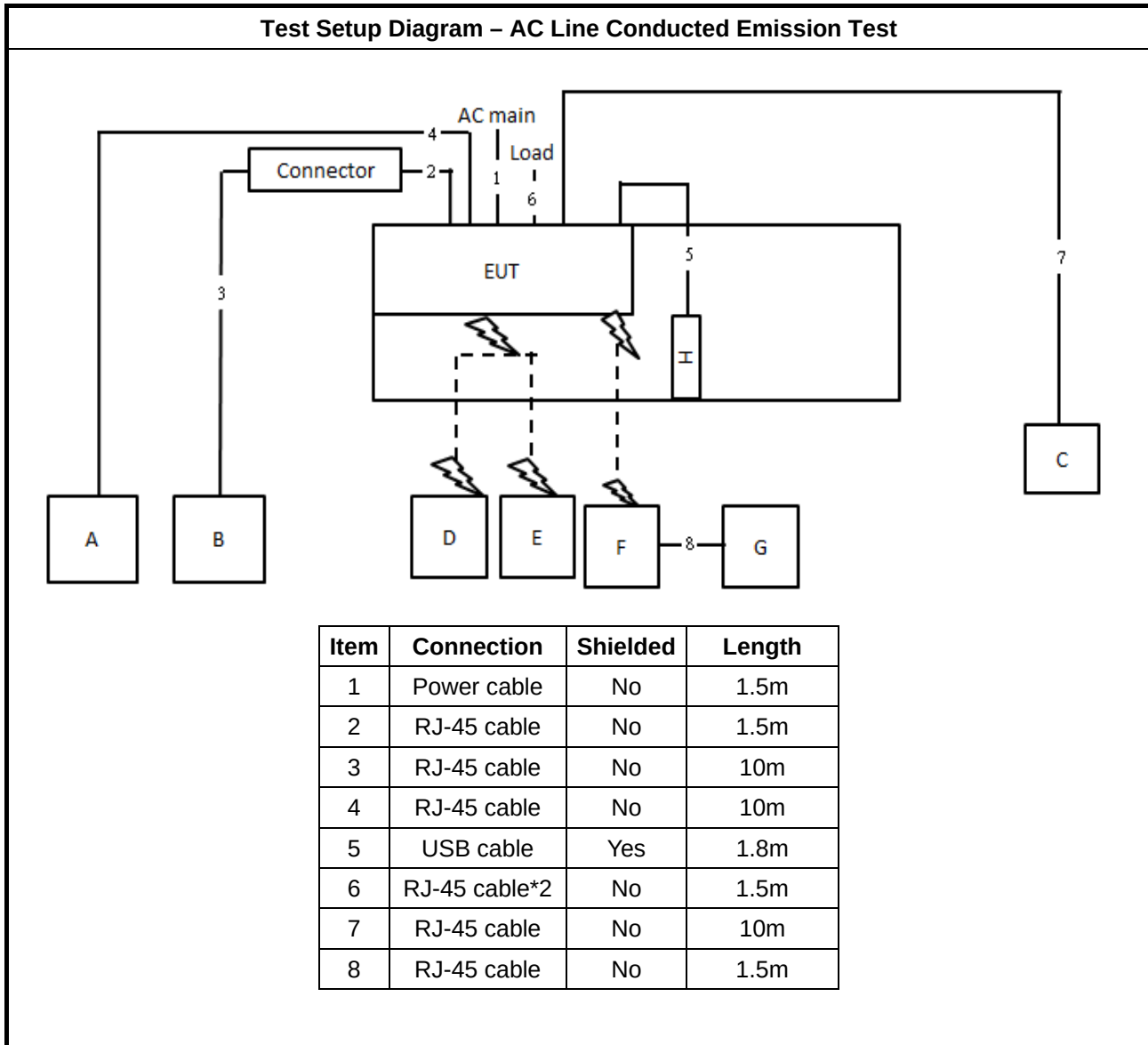
For Radiated <above 1GHz / Beamforming mode>:

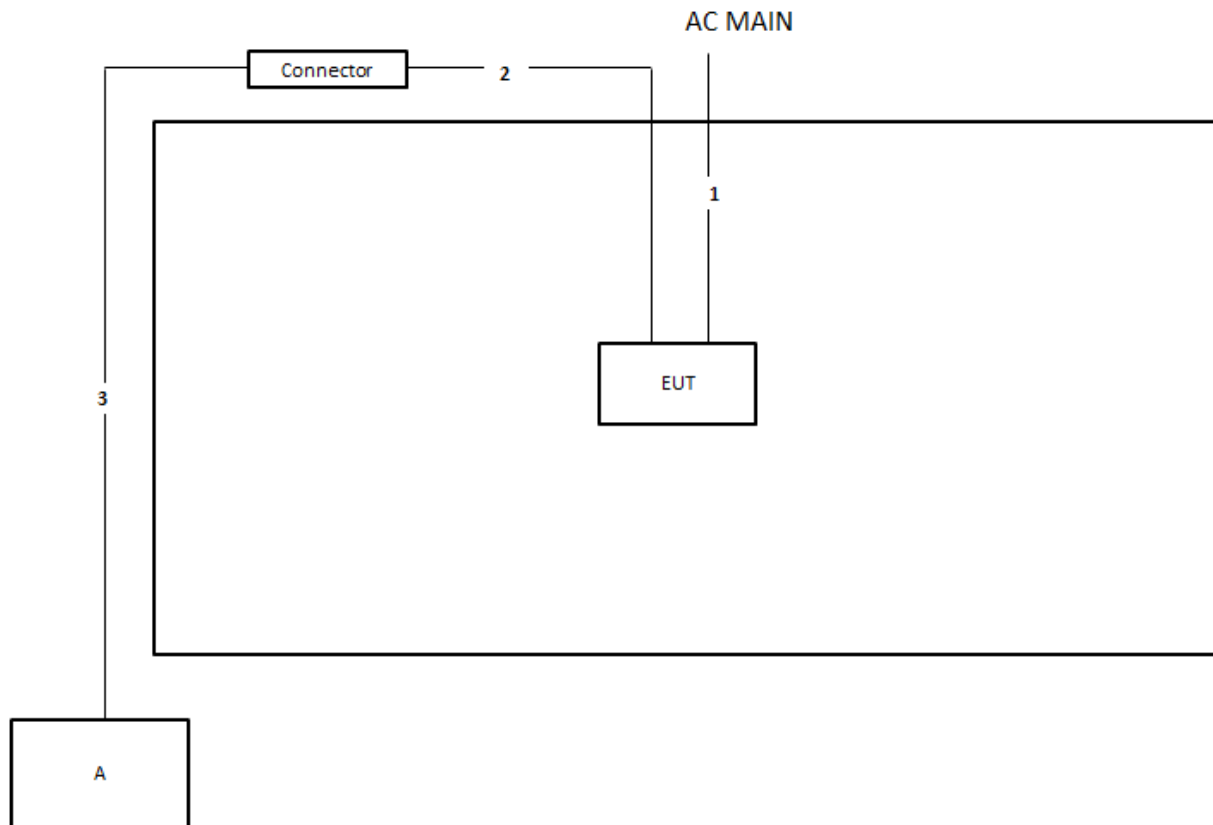
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Router	ASUS	XT9	MSQ-RTAX4S00

For RF Conducted:

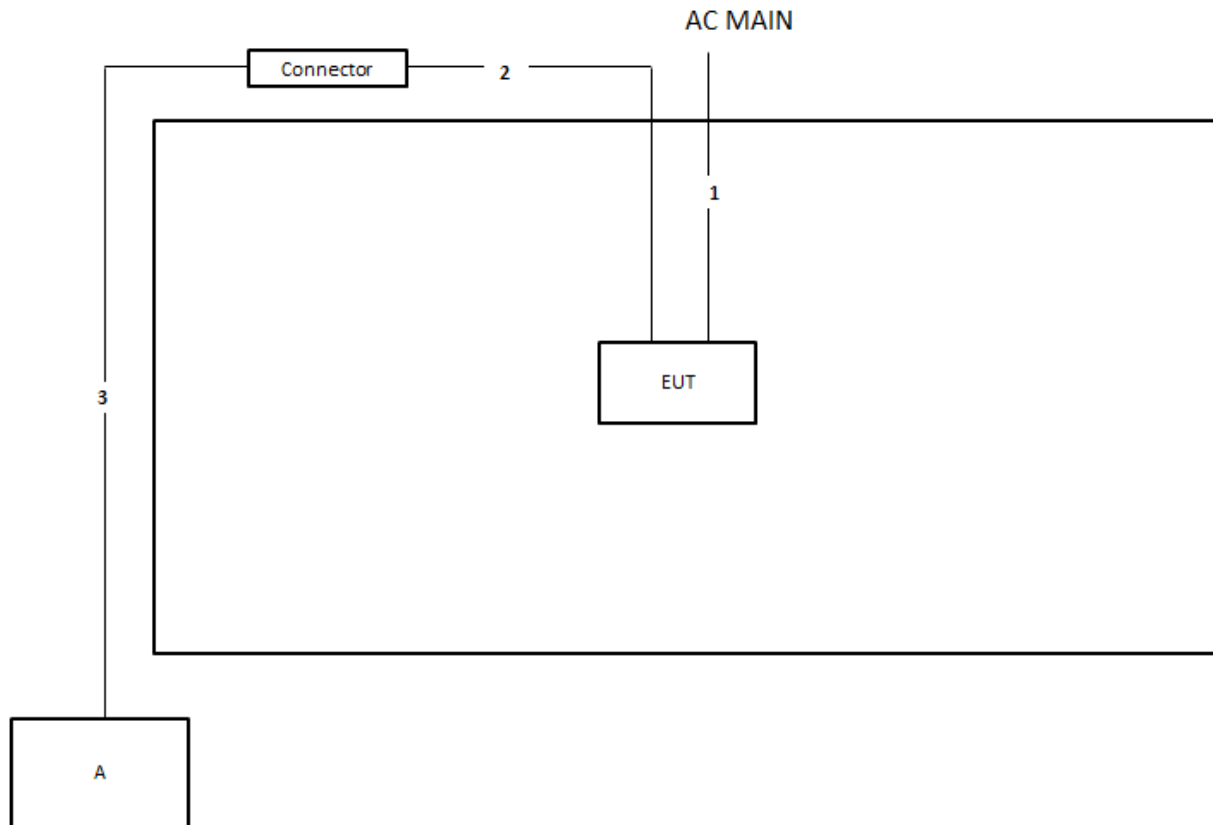
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram

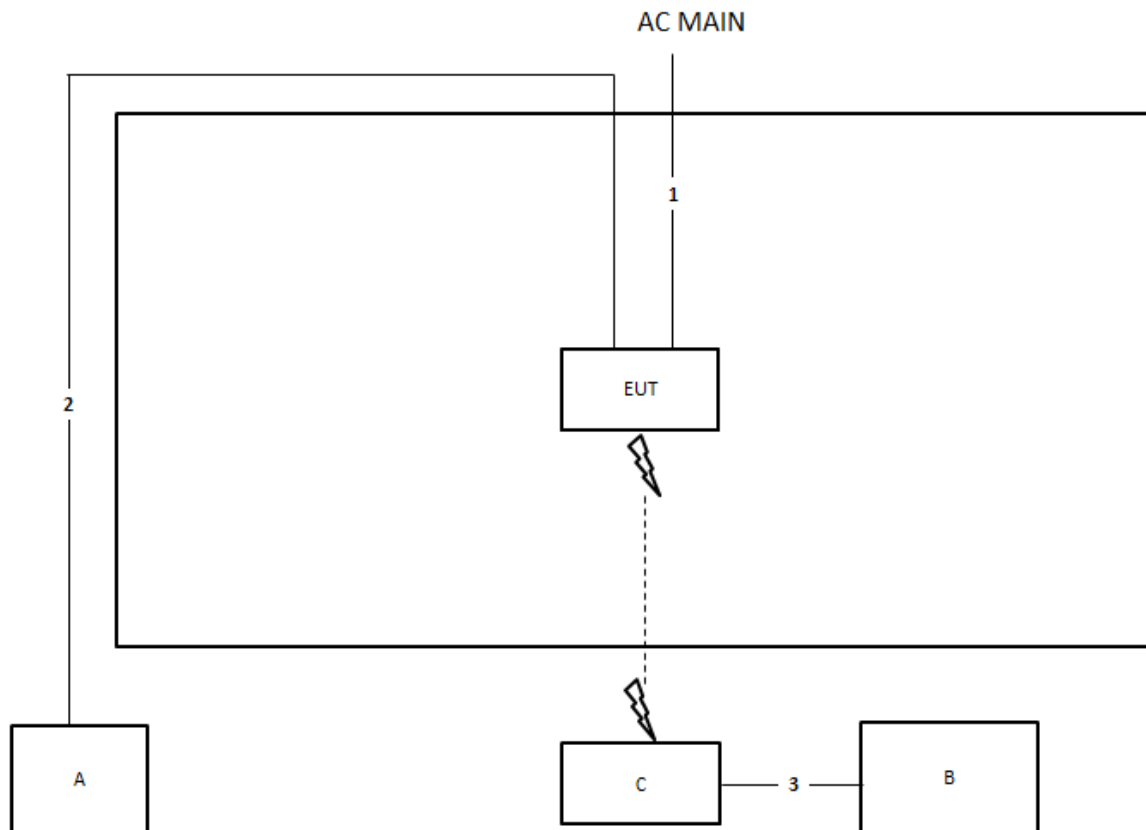


Test Setup Diagram - Radiated Test < 1GHz


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

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


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

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


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

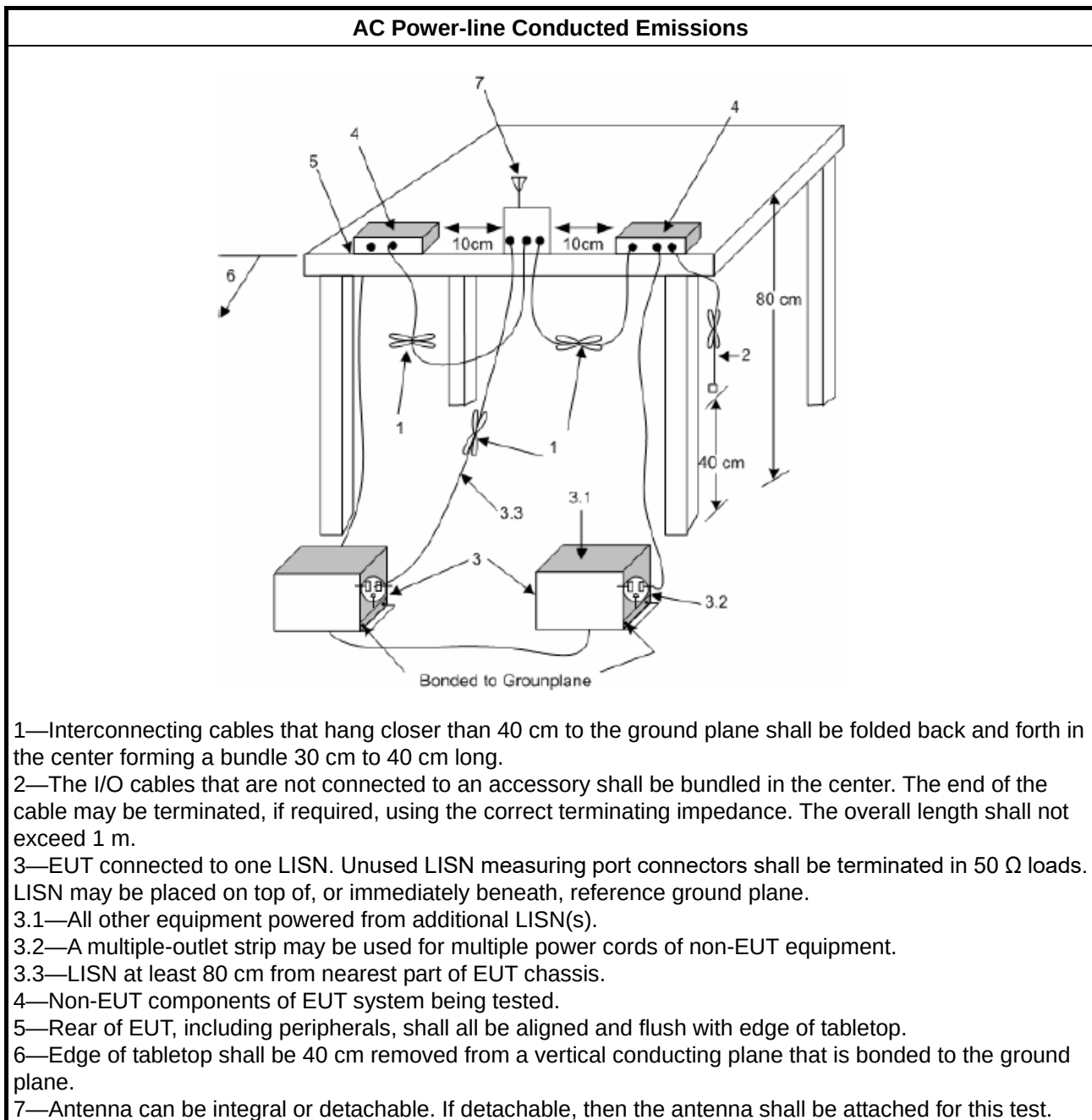
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 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 $\geq$ 500kHz.
☐	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq$ 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 $\geq$ 500kHz.

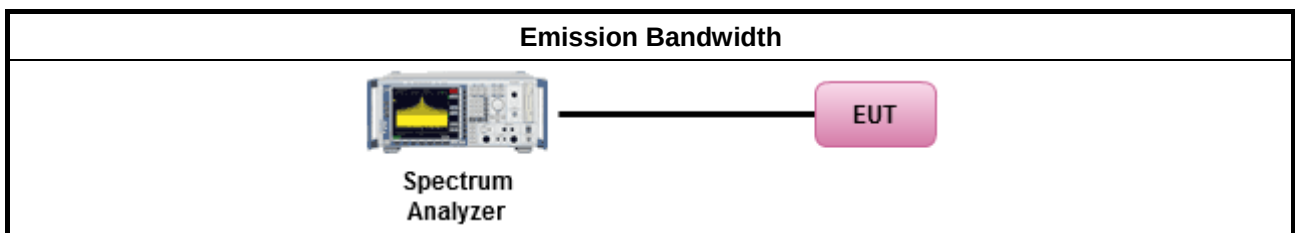
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup





3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- 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.
Maximum EIRP Limit	
☐ For the 5.85-5.895 GHz band:	
☐	- Indoor AP & subordinate device < 36 dBm - Client device < 30 dBm
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, 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:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the



lesser of 1 W.

P_{Out} = maximum conducted output power in dBm,

G_{TX} = the maximum transmitting antenna directional gain in dBi.

3.3.2 Measuring Instruments

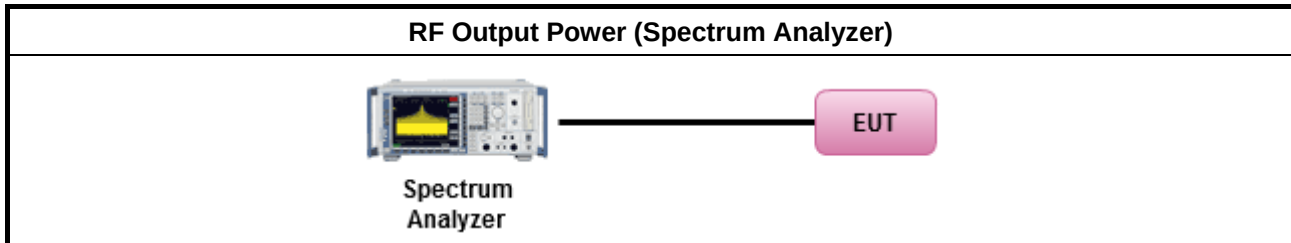
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

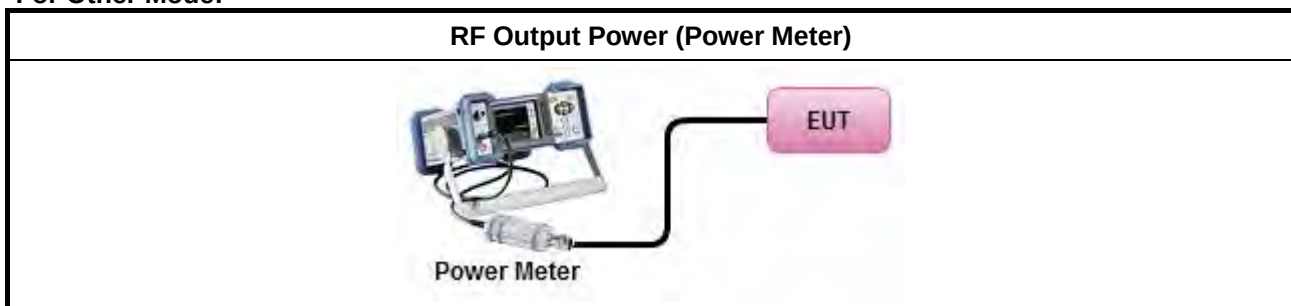
Test Method	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty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

3.3.4 Test Setup

For Straddle channel Mode:



For Other Mode:



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- 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.
EIRP Power Spectral Density Limit	
☐ For the 5.85-5.895 GHz band:	
	- Indoor AP & subordinate device < 20dBm/MHz - Client device < 14dBm/MHz
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 $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output	



power shall be used to determine the power spectral density. And power spectral density in dBm/MHz
 G_{Tx} = the maximum transmitting antenna directional gain in dBi.

3.4.2 Measuring Instruments

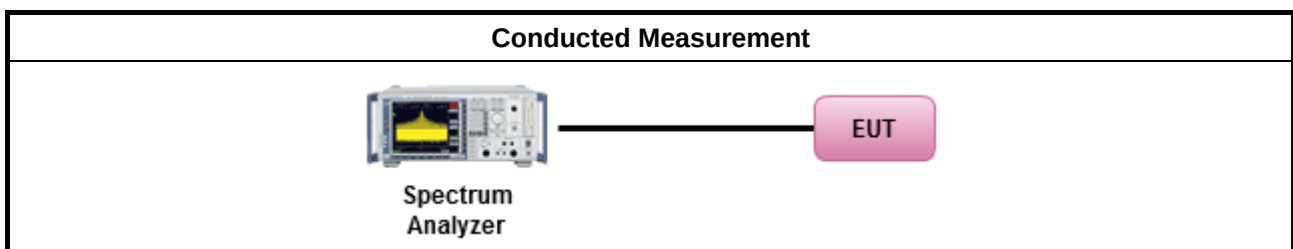
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

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

Test Method	
	$EIRP_{total} = PPSD_{total} + DG$
☐	For radiated measurement.
	Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
☐ 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Measuring Instruments

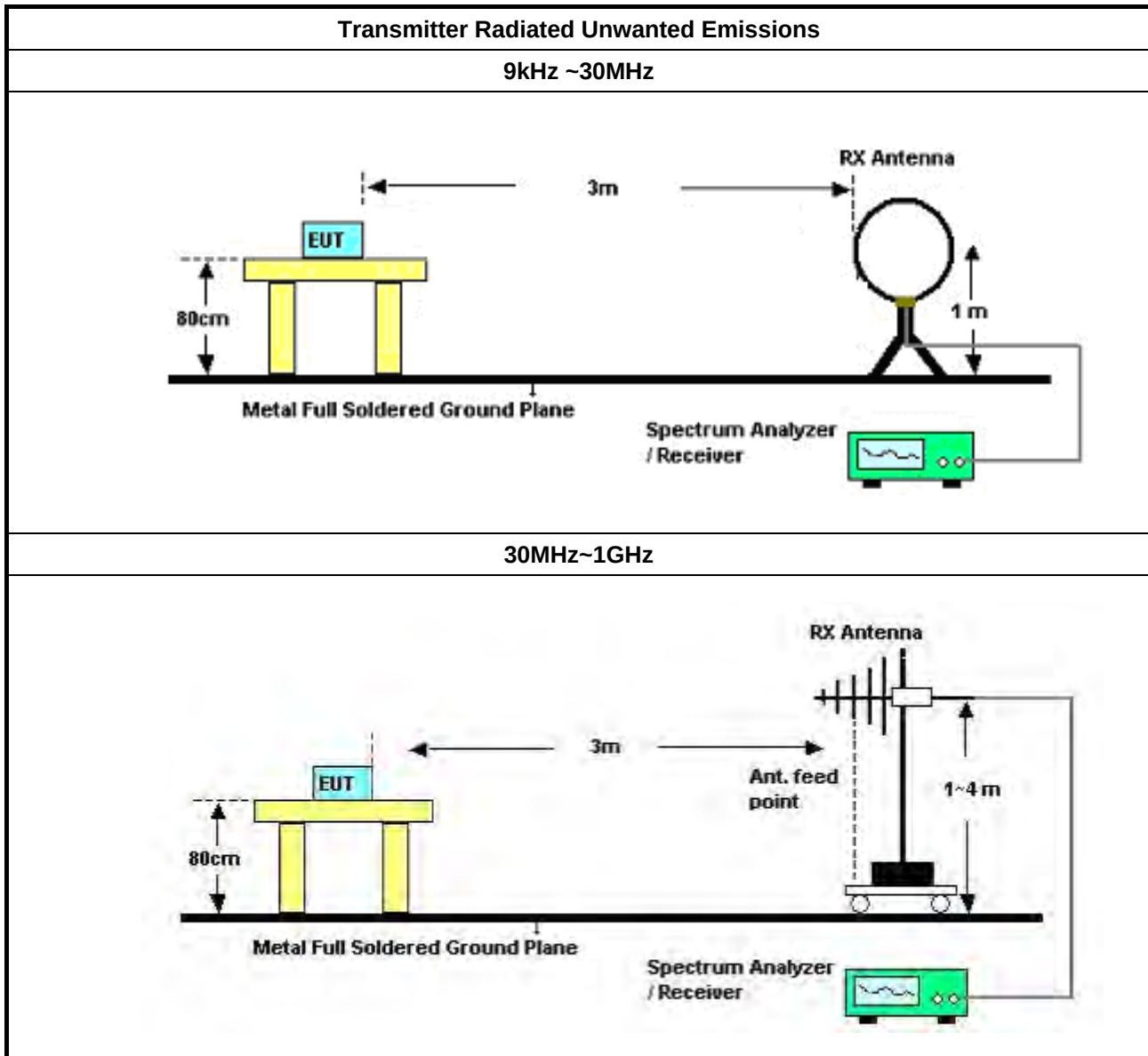
Refer a test equipment and calibration data table in this test report.

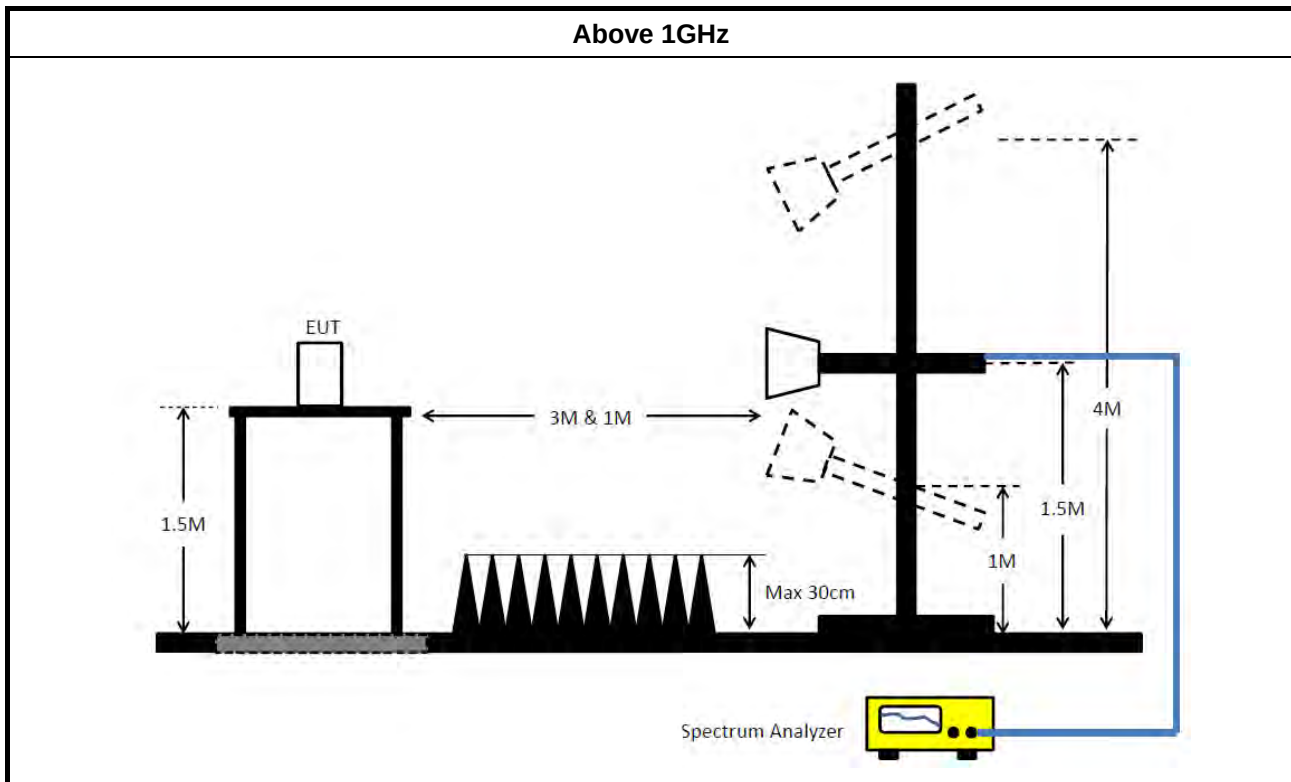


3.5.3 Test Procedures

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

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Log Antenna	Schwarzbeck	VUSLP 9111	247	200MHz ~ 1GHz	May 24, 2021	May 23, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 26, 2022	Jan. 25, 2023	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMC	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMC	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 21, 2022	Feb. 20, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 10, 2022	Jan. 09, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 06, 2021	May 05, 2022	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



Conducted Emissions at Powerline

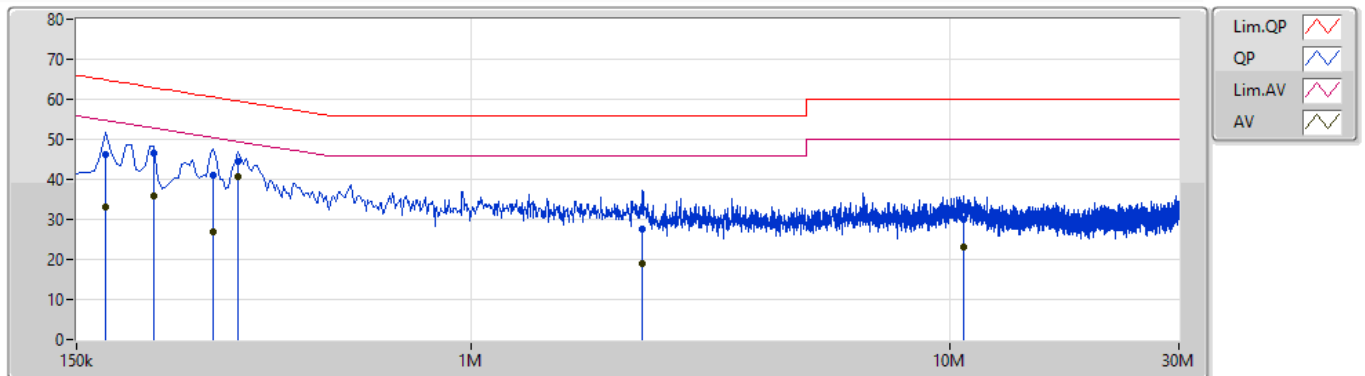
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	325.5k	40.69	49.56	-8.87	Neutral

Mode 1

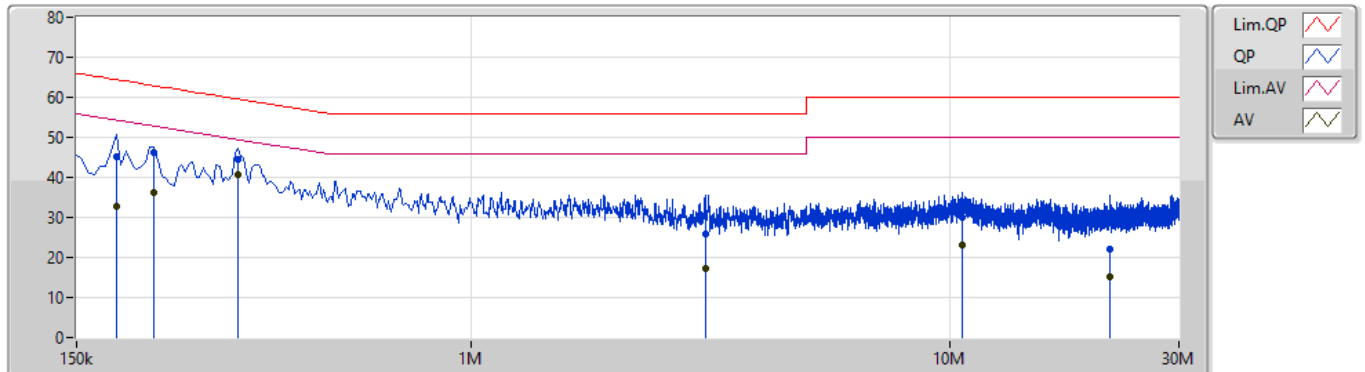
14/02/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	172.5k	46.27	64.83	-18.56	10.24	Line	-	36.03	0.04	0.04	10.16			
AV	172.5k	32.95	54.83	-21.88	10.24	Line	-	22.71	0.04	0.04	10.16			
QP	217.5k	46.50	62.92	-16.42	10.23	Line	-	36.27	0.04	0.04	10.15			
AV	217.5k	35.94	52.92	-16.98	10.23	Line	-	25.71	0.04	0.04	10.15			
QP	289.5k	41.04	60.53	-19.49	10.21	Line	-	30.83	0.04	0.04	10.13			
AV	289.5k	26.98	50.53	-23.55	10.21	Line	-	16.77	0.04	0.04	10.13			
QP	325.5k	44.38	59.56	-15.18	10.20	Line	-	34.18	0.04	0.04	10.12			
AV	325.5k	40.63	49.56	-8.93	10.20	Line	"Worst"	30.43	0.04	0.04	10.12			
QP	2.279M	27.65	56.00	-28.35	10.30	Line	-	17.35	0.10	0.08	10.12			
AV	2.279M	18.98	46.00	-27.02	10.30	Line	-	8.68	0.10	0.08	10.12			
QP	10.667M	29.88	60.00	-30.12	10.51	Line	-	19.37	0.23	0.16	10.12			
AV	10.667M	23.13	50.00	-26.87	10.51	Line	-	12.62	0.23	0.16	10.12			

Mode 1

14/02/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	181.5k	45.09	64.41	-19.32	10.23	Neutral	-	34.86	0.03	0.04	10.16			
AV	181.5k	32.78	54.41	-21.63	10.23	Neutral	-	22.55	0.03	0.04	10.16			
QP	217.5k	46.19	62.92	-16.73	10.22	Neutral	-	35.97	0.03	0.04	10.15			
AV	217.5k	36.30	52.92	-16.62	10.22	Neutral	-	26.08	0.03	0.04	10.15			
QP	325.5k	44.46	59.56	-15.10	10.19	Neutral	-	34.27	0.03	0.04	10.12			
AV	325.5k	40.69	49.56	-8.87	10.19	Neutral	"Worst"	30.50	0.03	0.04	10.12			
QP	3.08M	25.75	56.00	-30.25	10.30	Neutral	-	15.45	0.09	0.10	10.11			
AV	3.08M	17.21	46.00	-28.79	10.30	Neutral	-	6.91	0.09	0.10	10.11			
QP	10.626M	29.97	60.00	-30.03	10.49	Neutral	-	19.48	0.21	0.16	10.12			
AV	10.626M	22.97	50.00	-27.03	10.49	Neutral	-	12.48	0.21	0.16	10.12			
QP	21.579M	21.99	60.00	-38.01	10.76	Neutral	-	11.23	0.32	0.24	10.20			
AV	21.579M	15.20	50.00	-34.80	10.76	Neutral	-	4.44	0.32	0.24	10.20			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.32M	17.361M	17M4D1D	21.45M	16.972M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.85M	17.451M	17M5D1D	21.45M	16.912M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.26M	17.451M	17M5D1D	15.585M	13.478M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	18.891M	18M9D1D	3.16M	4.198M

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	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.55M	17.361M	25.32M	17.361M	24.75M	17.331M	23.43M	17.301M
5200MHz	Pass	Inf	22.35M	17.241M	22.14M	17.181M	23.37M	17.031M	21.54M	17.001M
5240MHz	Pass	Inf	21.63M	17.181M	22.59M	17.091M	22.26M	17.061M	21.45M	16.972M
5260MHz	Pass	Inf	21.57M	17.151M	21.57M	17.061M	21.48M	16.942M	21.51M	16.942M
5300MHz	Pass	Inf	21.51M	17.091M	21.57M	17.091M	21.48M	16.972M	21.45M	16.912M
5320MHz	Pass	Inf	22.89M	17.451M	23.64M	17.301M	26.7M	17.301M	26.85M	17.331M
5500MHz	Pass	Inf	22.71M	17.451M	25.26M	17.361M	23.85M	17.301M	22.23M	17.331M
5580MHz	Pass	Inf	21.57M	17.121M	21.54M	17.031M	21.54M	16.972M	21.54M	16.942M
5700MHz	Pass	Inf	21.54M	17.151M	21.6M	17.061M	21.63M	17.001M	21.48M	16.972M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.66M	13.628M	15.69M	13.583M	15.585M	13.478M	15.69M	13.508M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	4.238M	3.18M	4.258M	3.18M	4.198M	3.16M	4.198M
5745MHz	Pass	500k	16.29M	17.571M	16.29M	17.421M	16.32M	17.421M	16.35M	17.661M
5785MHz	Pass	500k	16.29M	17.571M	16.29M	17.421M	16.29M	17.331M	16.29M	17.481M
5825MHz	Pass	500k	16.29M	17.961M	16.29M	18.021M	16.32M	18.891M	16.32M	17.811M

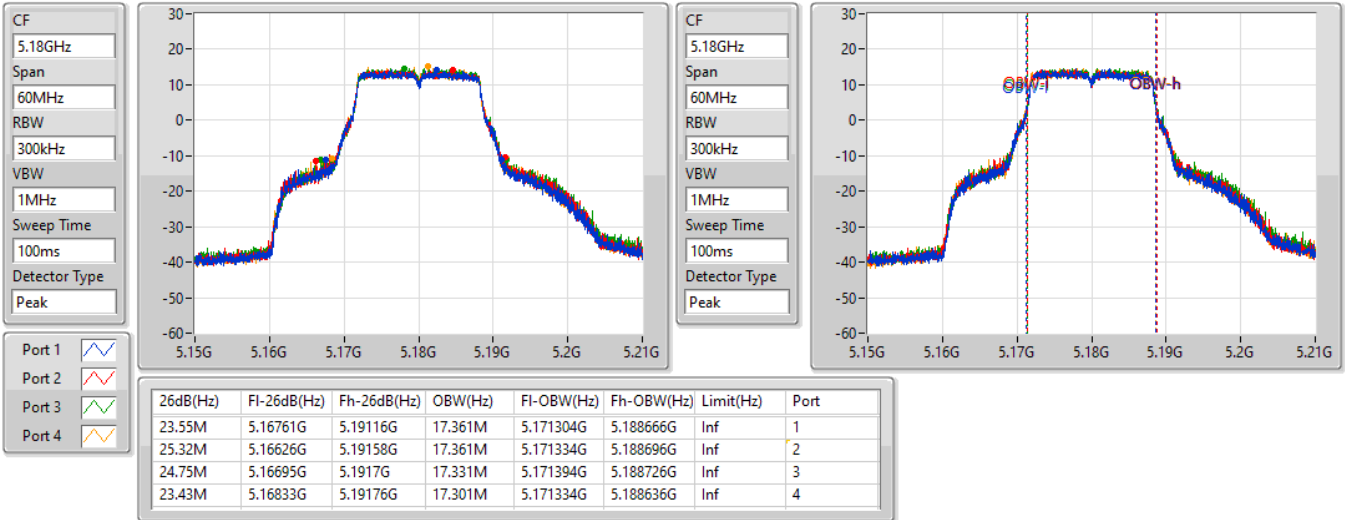
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

31/03/2022

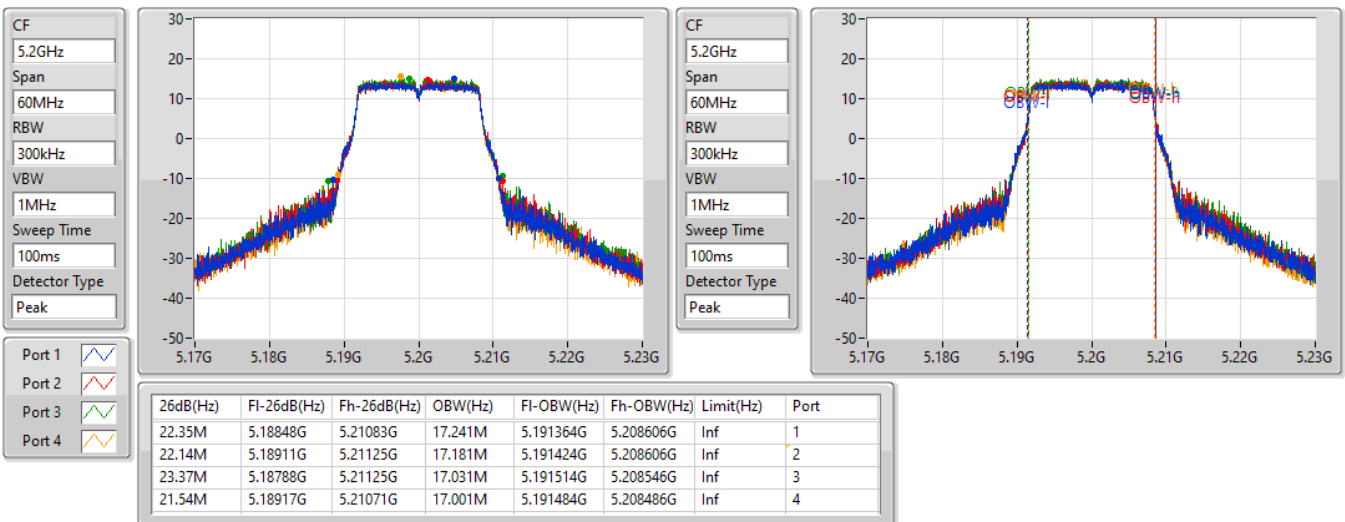


802.11a_Nss1,(6Mbps)_4TX

EBW

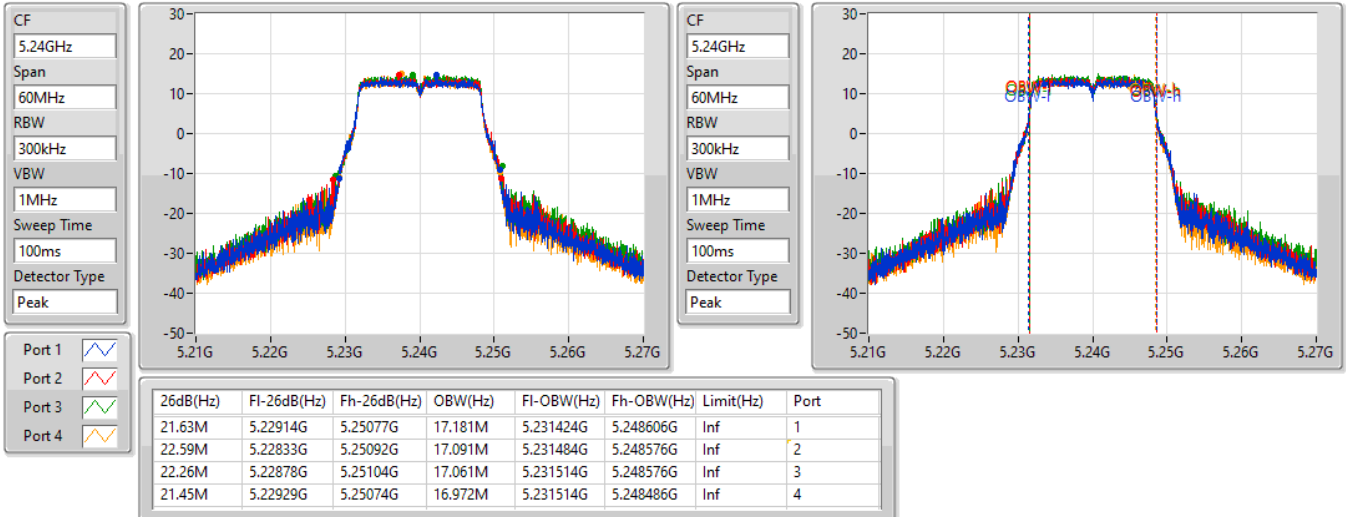
5200MHz

31/03/2022

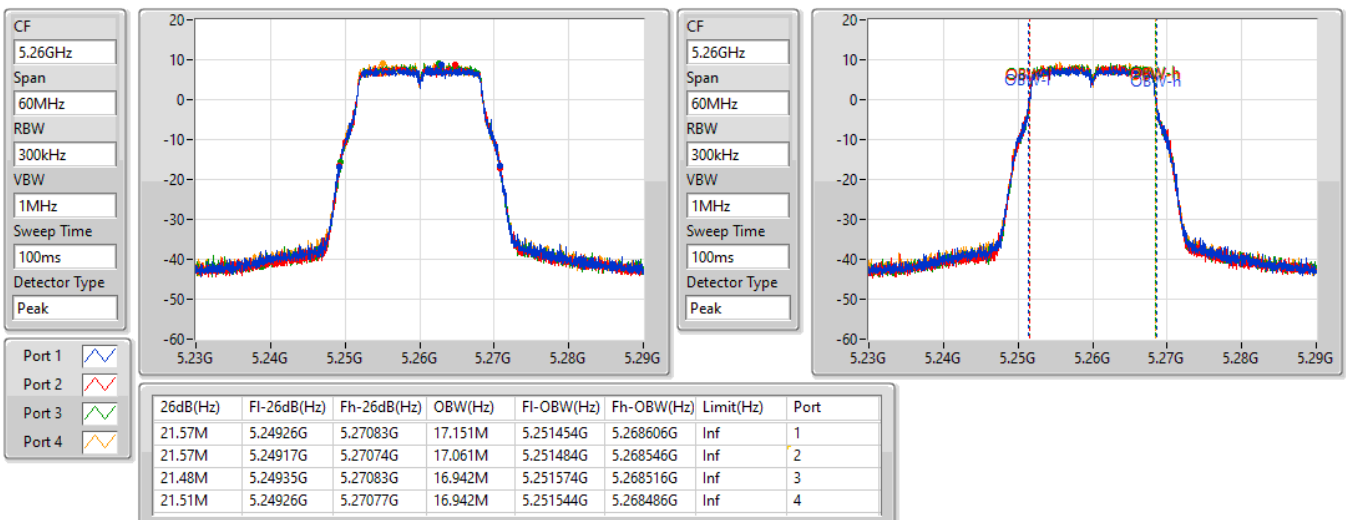


802.11a_Nss1,(6Mbps)_4TX
EBW
5240MHz

31/03/2022

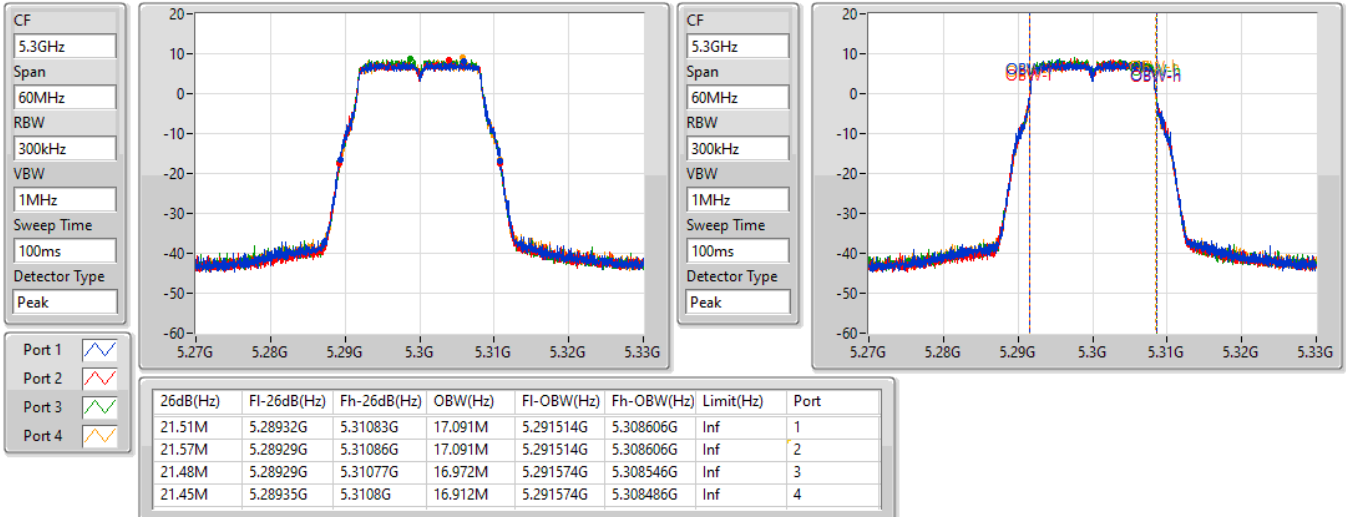

802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

31/03/2022

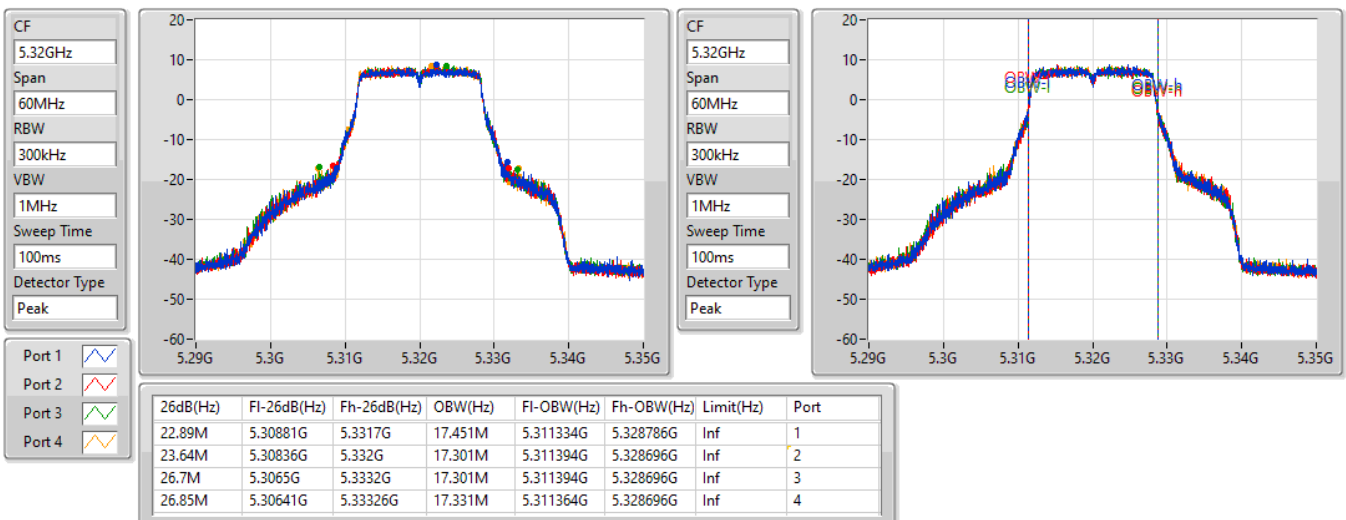


802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

31/03/2022

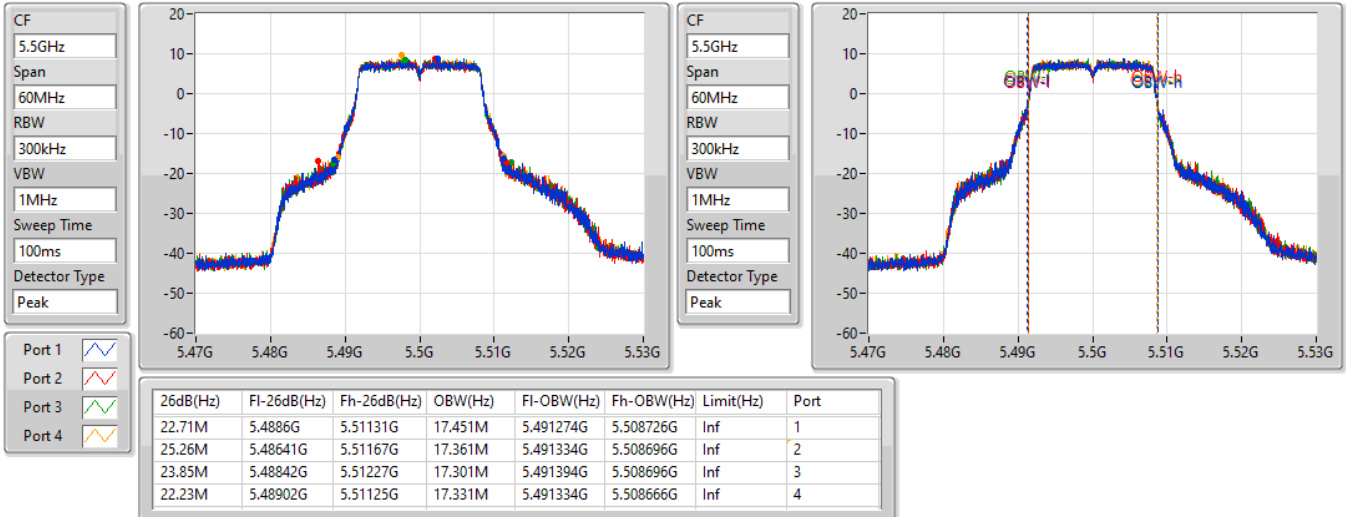

802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

31/03/2022

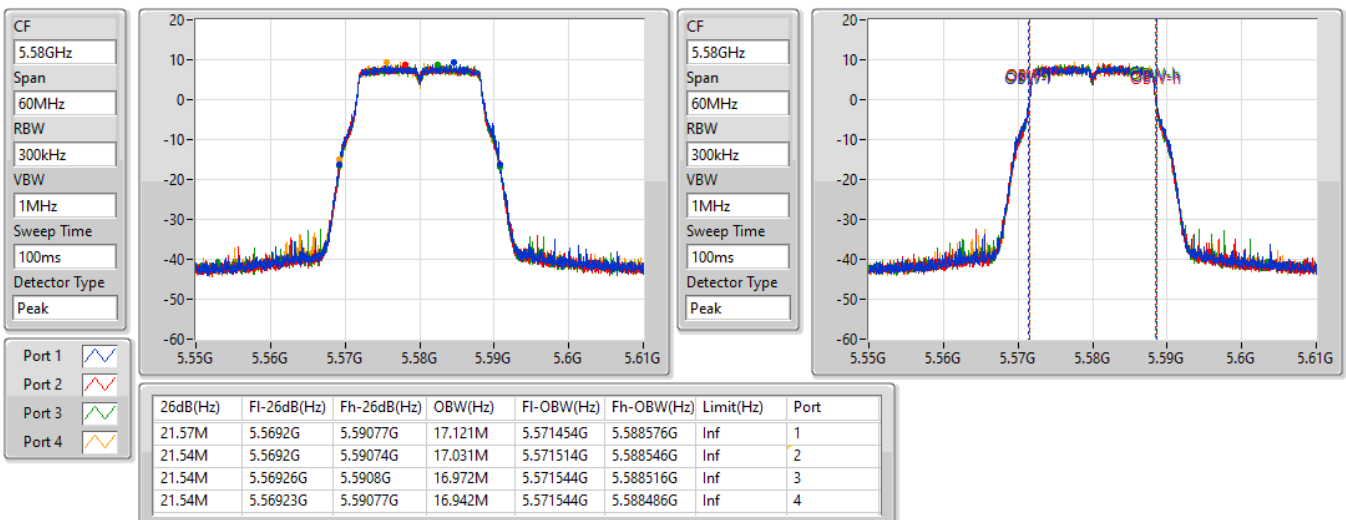


802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

31/03/2022

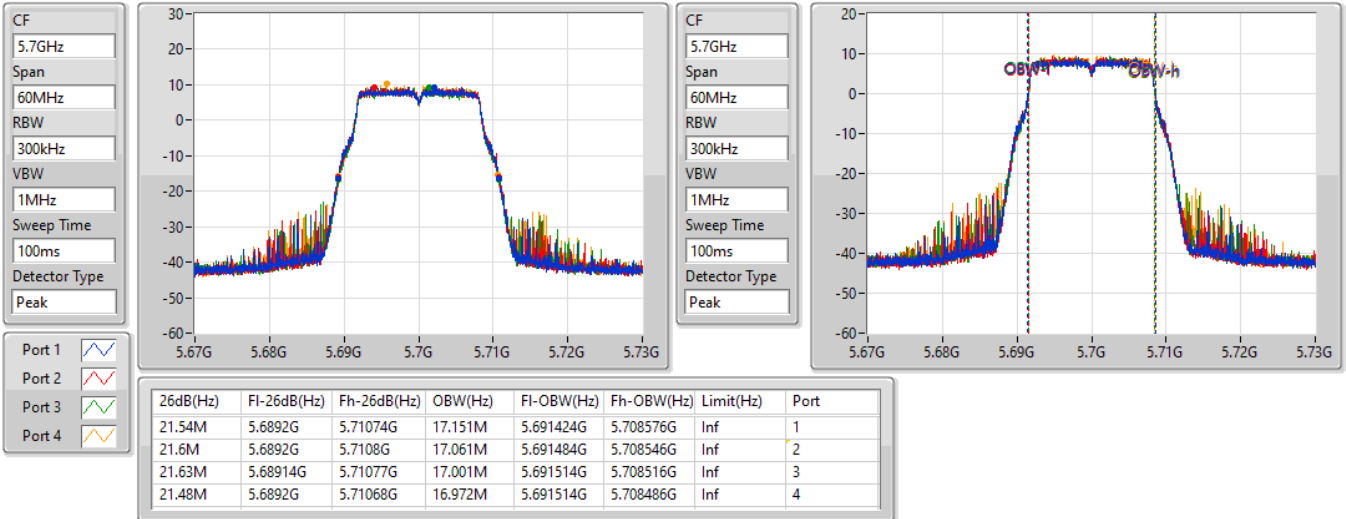

802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

31/03/2022

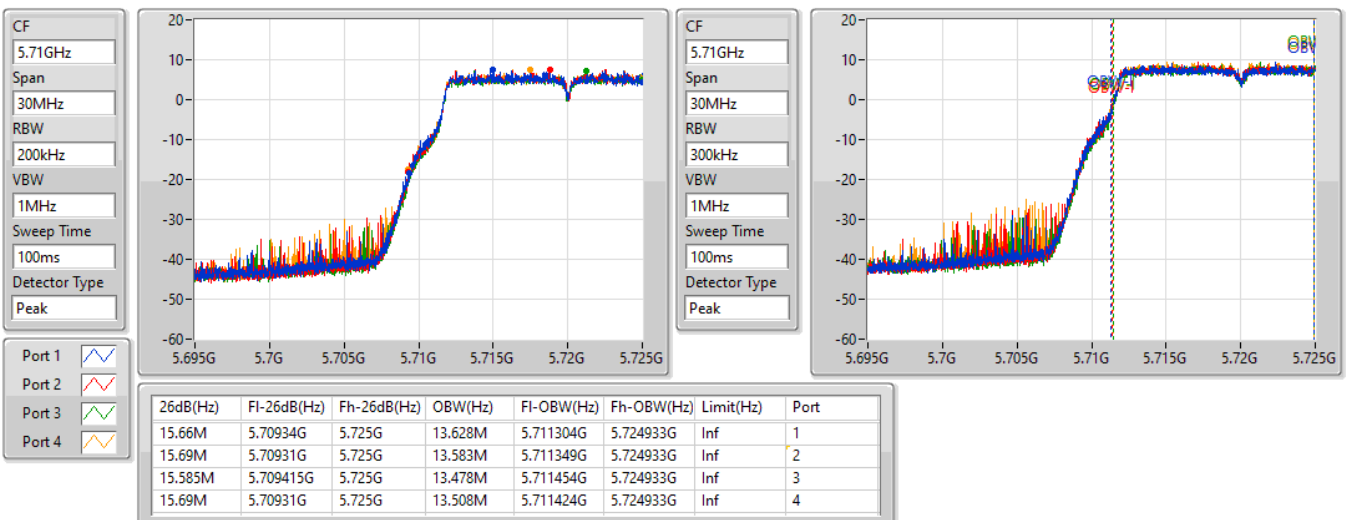


802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

31/03/2022


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

31/03/2022

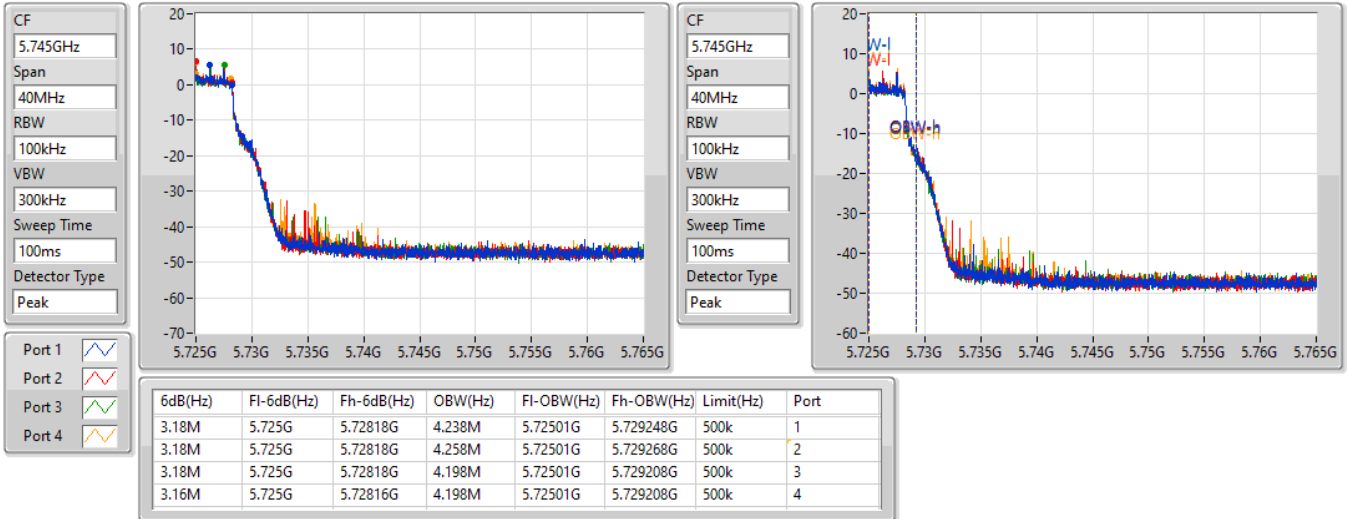


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

31/03/2022

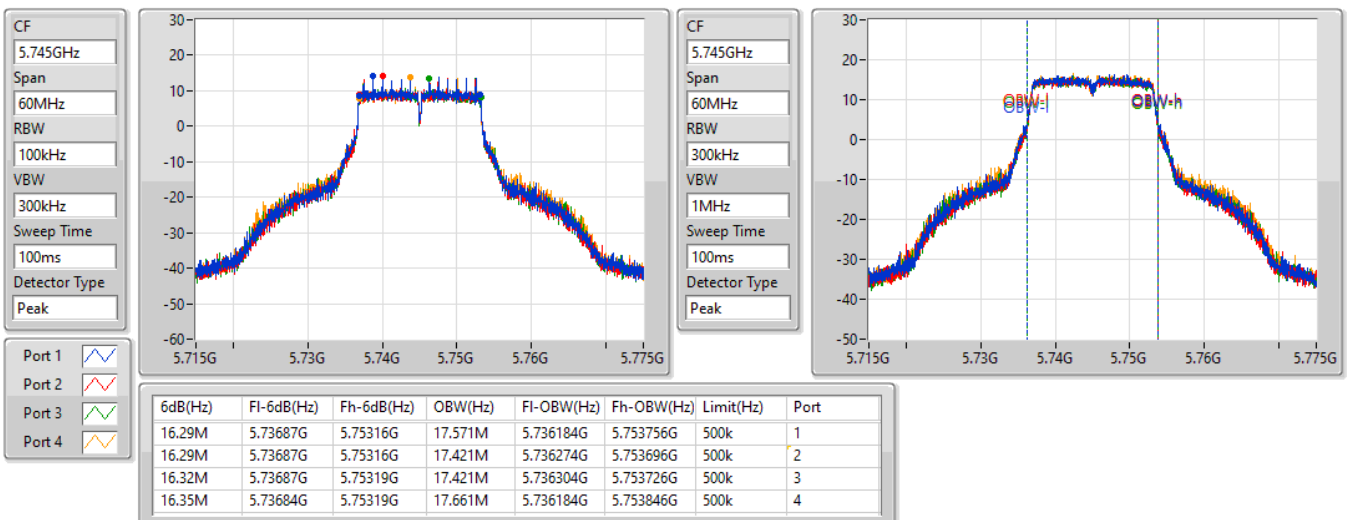


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

15/03/2022

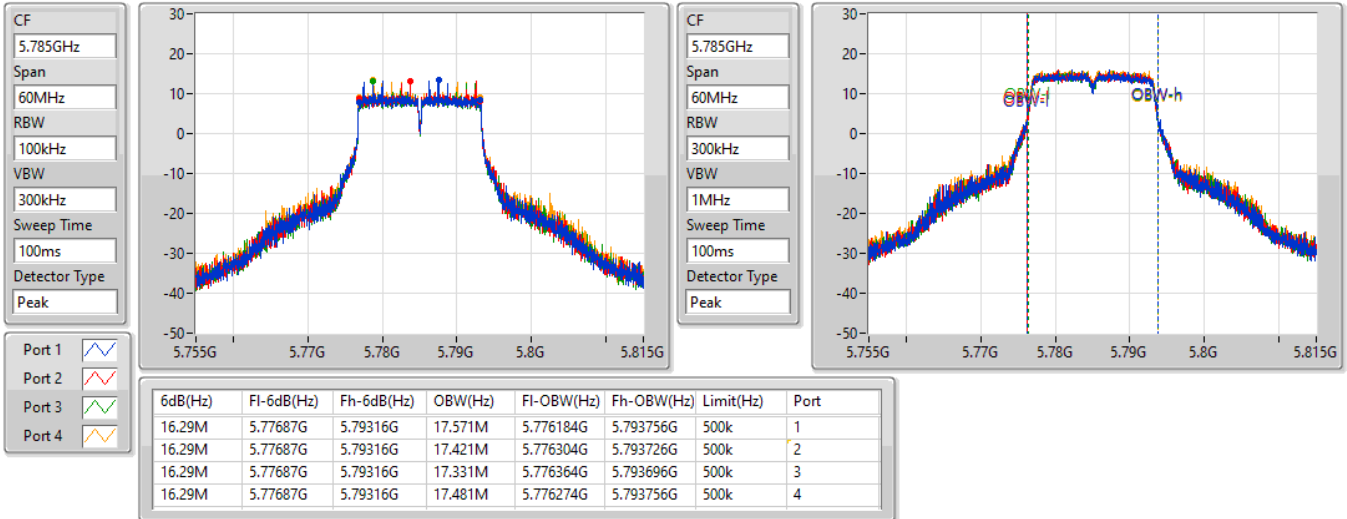


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

15/03/2022

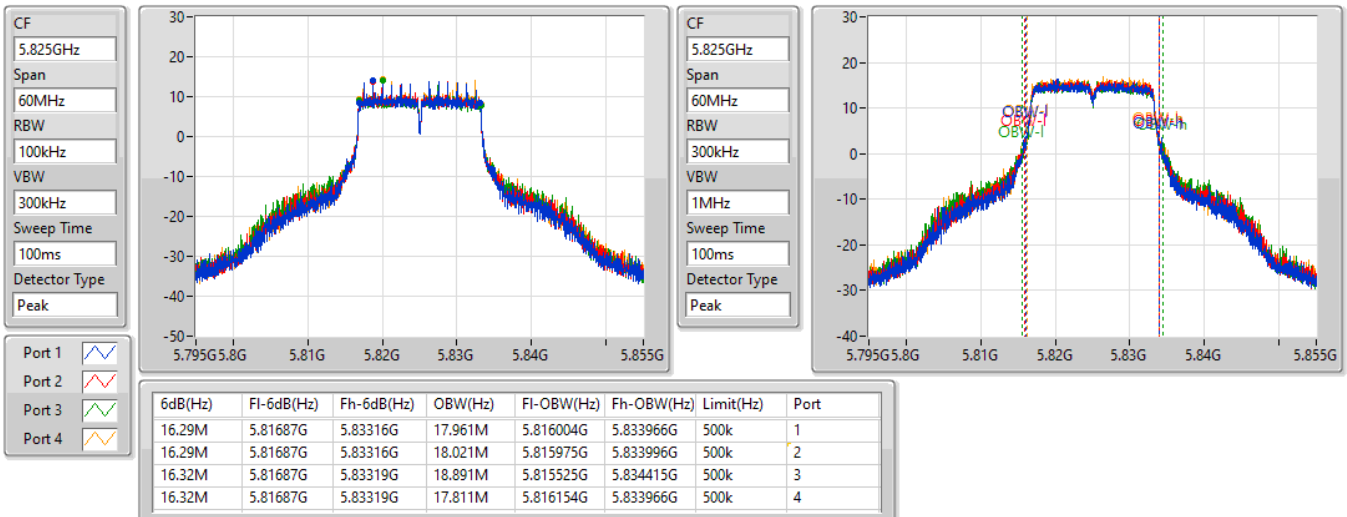


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

15/03/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB	Min-OBW
				(Hz)	(Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.05M	19.28M	19M3D1D	21.42M	19.1M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	52.44M	38.261M	38M3D1D	40.26M	38.021M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	84.36M	78.081M	78M1D1D	83.76M	77.961M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	83.44M	78.681M	78M7D1D	82.56M	78.521M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.82M	19.28M	19M3D1D	21.54M	19.07M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	48.06M	38.201M	38M2D1D	40.5M	37.901M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	87.24M	78.081M	78M1D1D	83.76M	77.841M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	83.44M	78.601M	78M6D1D	82.96M	78.521M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	30M	19.28M	19M3D1D	15.765M	14.543M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	48.84M	38.201M	38M2D1D	35.245M	33.793M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	90.36M	78.081M	78M1D1D	75.9M	73.463M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.6M	156.882M	157MD1D	164.88M	156.642M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.96M	19.28M	19M3D1D	4.46M	4.698M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.8M	38.261M	38M3D1D	3.84M	4.138M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.28M	78.201M	78M2D1D	3.8M	4.178M

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

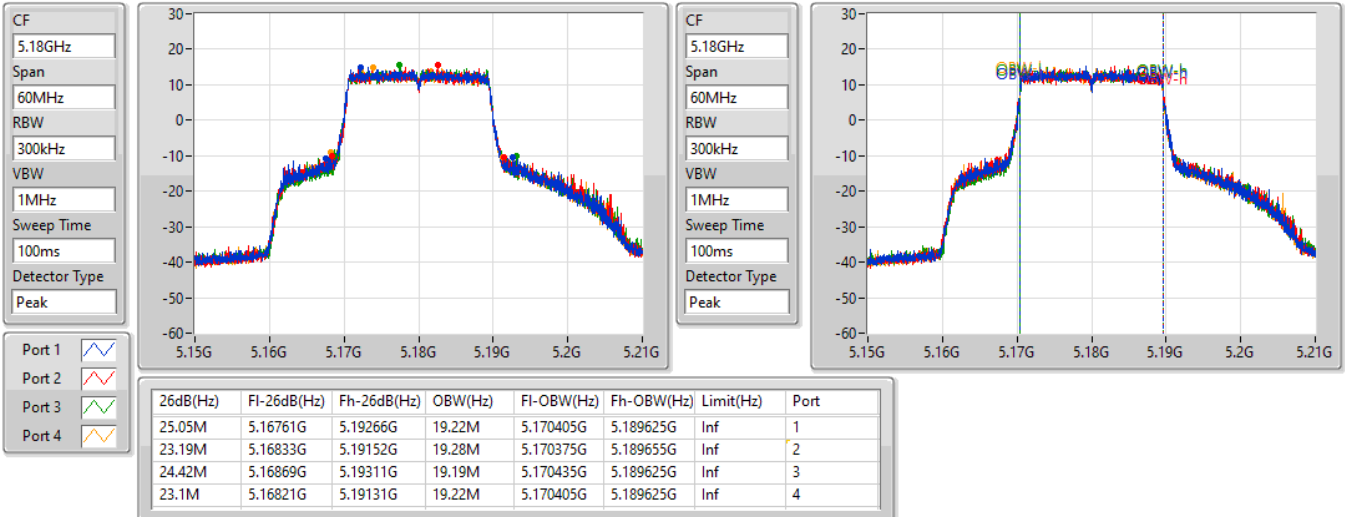
Result

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	25.05M	19.22M	23.19M	19.28M	24.42M	19.19M	23.1M	19.22M
5200MHz	Pass	Inf	21.75M	19.13M	21.66M	19.13M	21.42M	19.1M	21.63M	19.13M
5240MHz	Pass	Inf	21.78M	19.13M	21.6M	19.13M	21.51M	19.13M	21.6M	19.13M
5260MHz	Pass	Inf	21.84M	19.16M	21.63M	19.1M	21.54M	19.1M	21.54M	19.07M
5300MHz	Pass	Inf	21.72M	19.1M	21.72M	19.13M	21.72M	19.13M	21.81M	19.13M
5320MHz	Pass	Inf	26.82M	19.28M	25.05M	19.25M	25.38M	19.22M	26.52M	19.25M
5500MHz	Pass	Inf	26.73M	19.28M	26.82M	19.25M	24.87M	19.25M	22.41M	19.25M
5580MHz	Pass	Inf	21.72M	19.1M	21.51M	19.1M	21.57M	19.16M	21.45M	19.1M
5700MHz	Pass	Inf	21.78M	19.13M	21.81M	19.13M	21.69M	19.1M	21.51M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	30M	14.543M	15.825M	14.543M	15.765M	14.543M	15.81M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.698M	4.46M	4.718M	4.52M	4.698M	4.48M	4.698M
5745MHz	Pass	500k	18.9M	19.25M	18.78M	19.28M	18.84M	19.19M	18.78M	19.25M
5785MHz	Pass	500k	18.96M	19.22M	18.93M	19.16M	18.93M	19.22M	18.93M	19.19M
5825MHz	Pass	500k	18.93M	19.19M	18.81M	19.25M	18.78M	19.25M	18.93M	19.25M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	47.76M	38.141M	52.44M	38.261M	42.84M	38.141M	42.48M	38.141M
5230MHz	Pass	Inf	40.74M	38.021M	40.62M	38.021M	40.26M	38.141M	40.56M	38.021M
5270MHz	Pass	Inf	40.74M	37.961M	40.56M	37.961M	40.5M	37.901M	40.68M	37.961M
5310MHz	Pass	Inf	45.3M	38.201M	47.7M	38.141M	46.5M	38.201M	48.06M	38.201M
5510MHz	Pass	Inf	46.98M	38.201M	42.66M	38.201M	48.84M	38.141M	45.72M	38.141M
5550MHz	Pass	Inf	40.44M	37.961M	40.5M	37.961M	40.62M	37.901M	40.32M	37.901M
5670MHz	Pass	Inf	40.44M	37.901M	40.56M	38.021M	40.32M	38.021M	40.44M	37.841M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.525M	33.793M	35.245M	33.828M	35.315M	33.863M	35.315M	33.828M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.138M	3.92M	4.178M	3.84M	4.138M	3.86M	4.158M
5755MHz	Pass	500k	37.8M	38.201M	37.74M	38.201M	37.44M	38.201M	37.62M	38.261M
5795MHz	Pass	500k	37.74M	38.141M	37.68M	38.141M	37.44M	38.201M	37.44M	38.141M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	84.36M	77.961M	83.76M	78.081M	83.88M	77.961M	83.76M	77.961M
5290MHz	Pass	Inf	85.8M	77.841M	83.76M	77.841M	87.24M	77.961M	84.24M	78.081M
5530MHz	Pass	Inf	90.36M	78.081M	84.72M	77.961M	86.28M	78.081M	85.92M	78.081M
5610MHz	Pass	Inf	81.96M	77.721M	81.96M	77.721M	82.08M	77.601M	81.84M	77.721M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	73.538M	75.9M	73.463M	76.2M	73.463M	76.125M	73.463M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.178M	3.8M	4.178M	4.06M	4.198M	3.92M	4.178M
5775MHz	Pass	500k	76.8M	78.081M	75.24M	77.961M	77.28M	78.081M	76.44M	78.201M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	83.44M	78.681M	82.56M	78.521M	82.72M	78.521M	82.56M	78.521M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.96M	78.601M	83.44M	78.521M	83.2M	78.521M	83.04M	78.601M
5570MHz	Pass	Inf	164.88M	156.882M	165.6M	156.642M	164.88M	156.882M	165.36M	156.882M

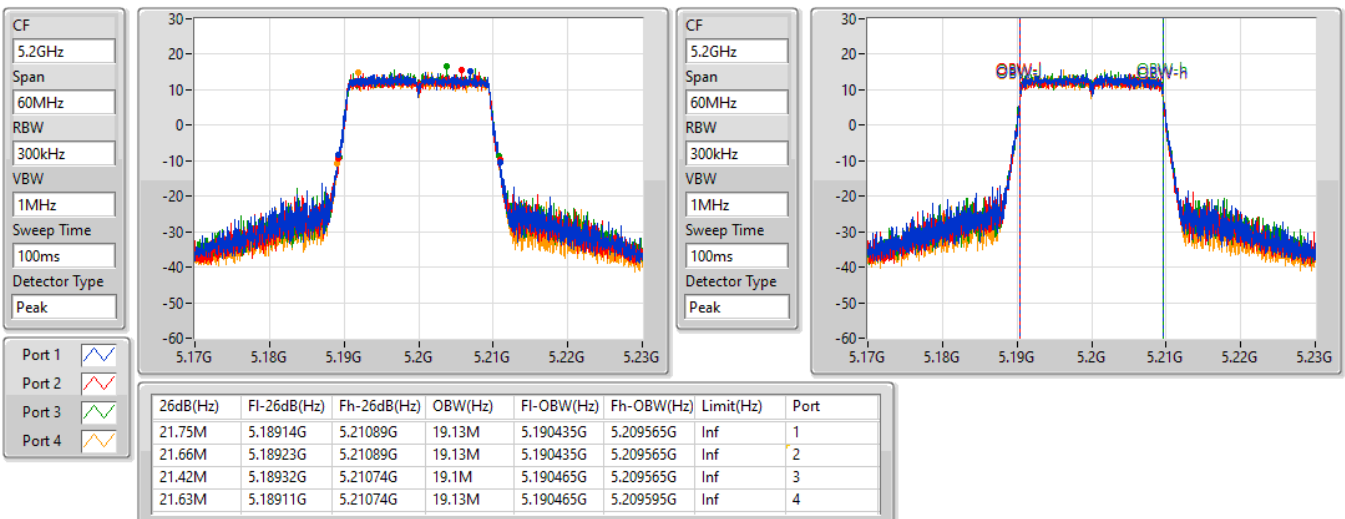
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

15/03/2022

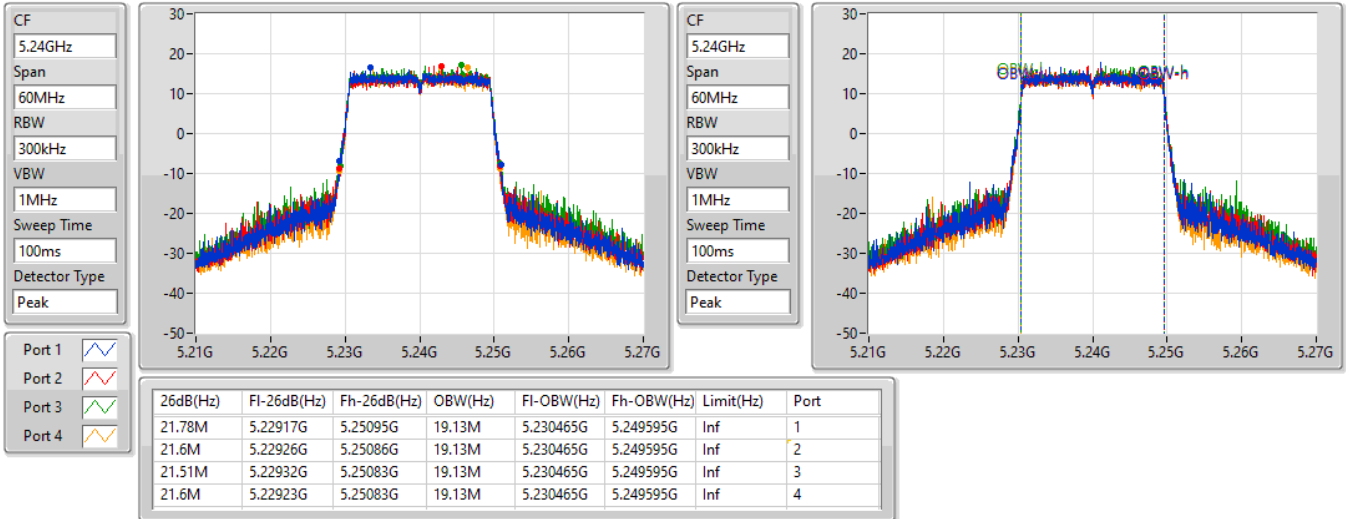

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

15/03/2022

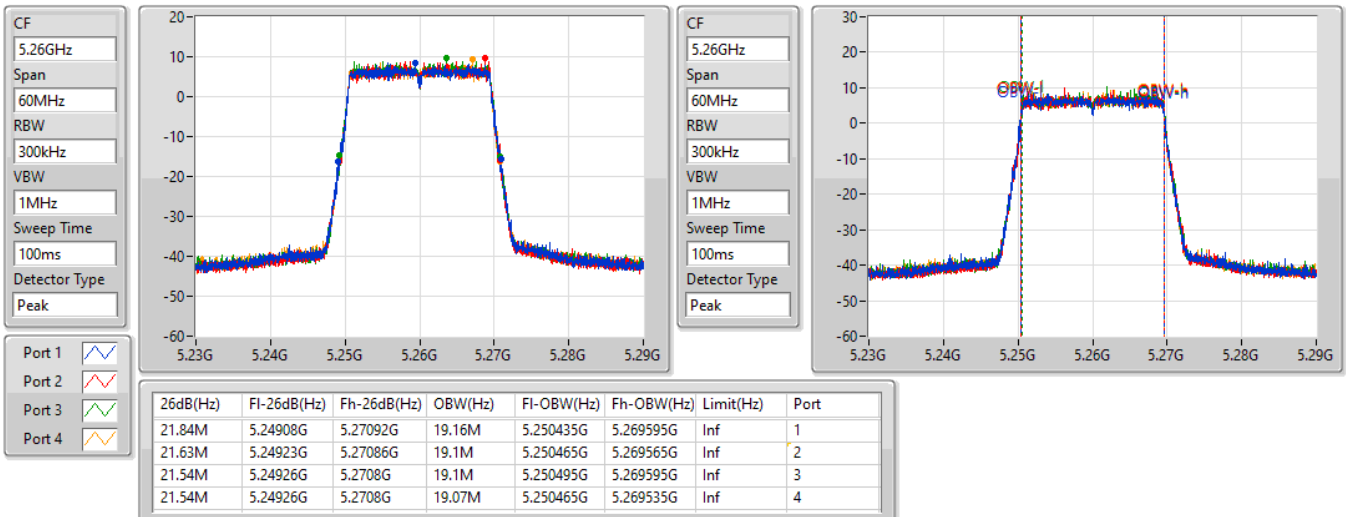


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

31/03/2022


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

15/03/2022

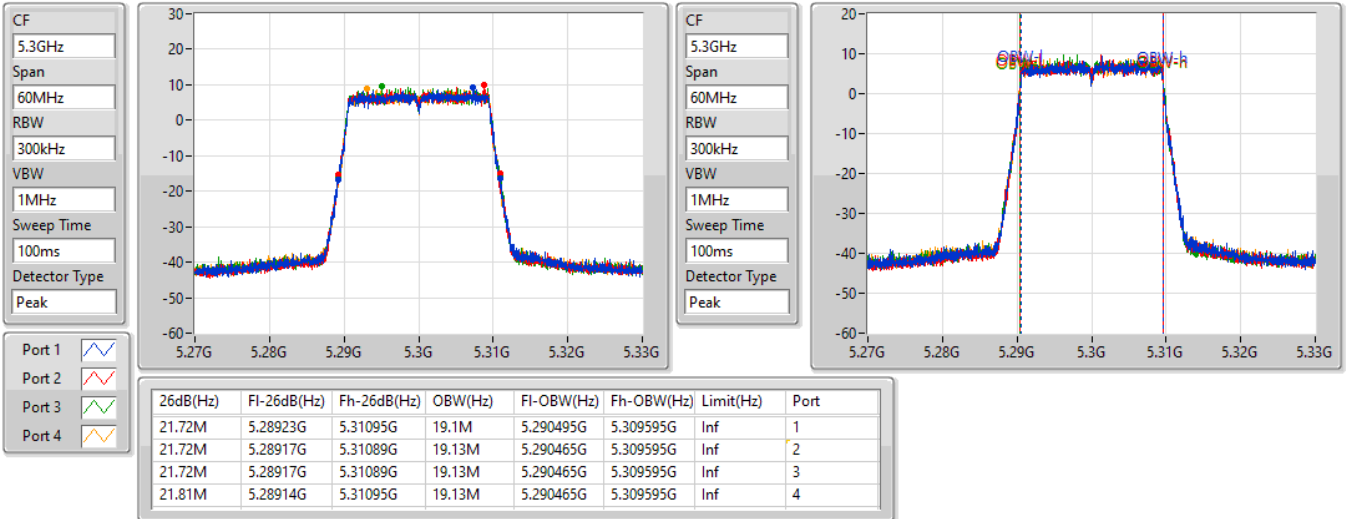


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

15/03/2022

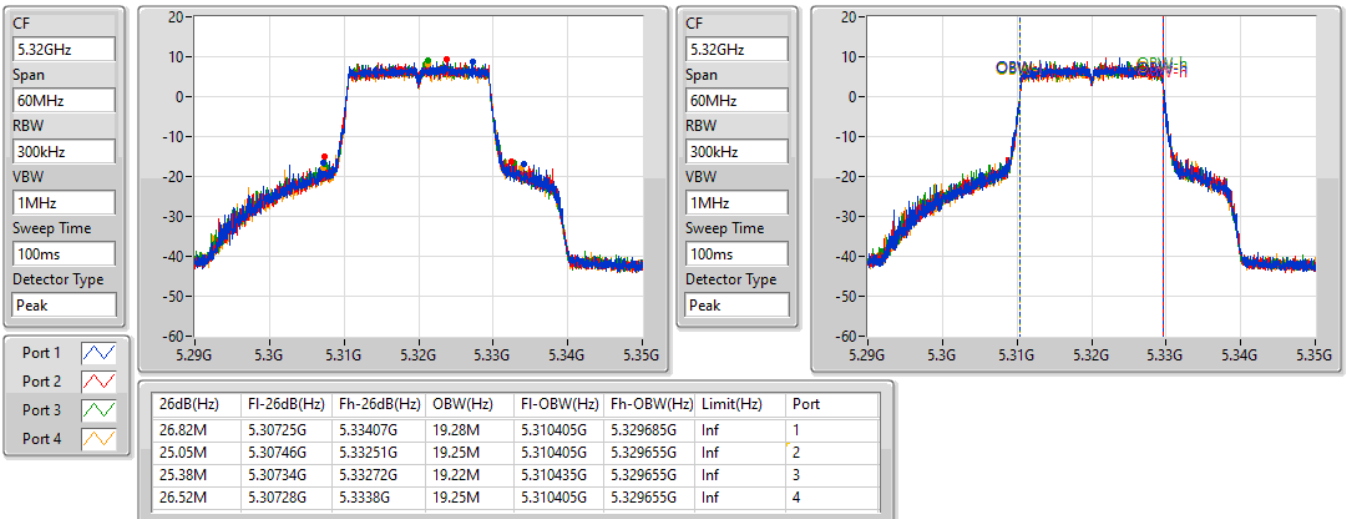


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

15/03/2022



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

15/03/2022

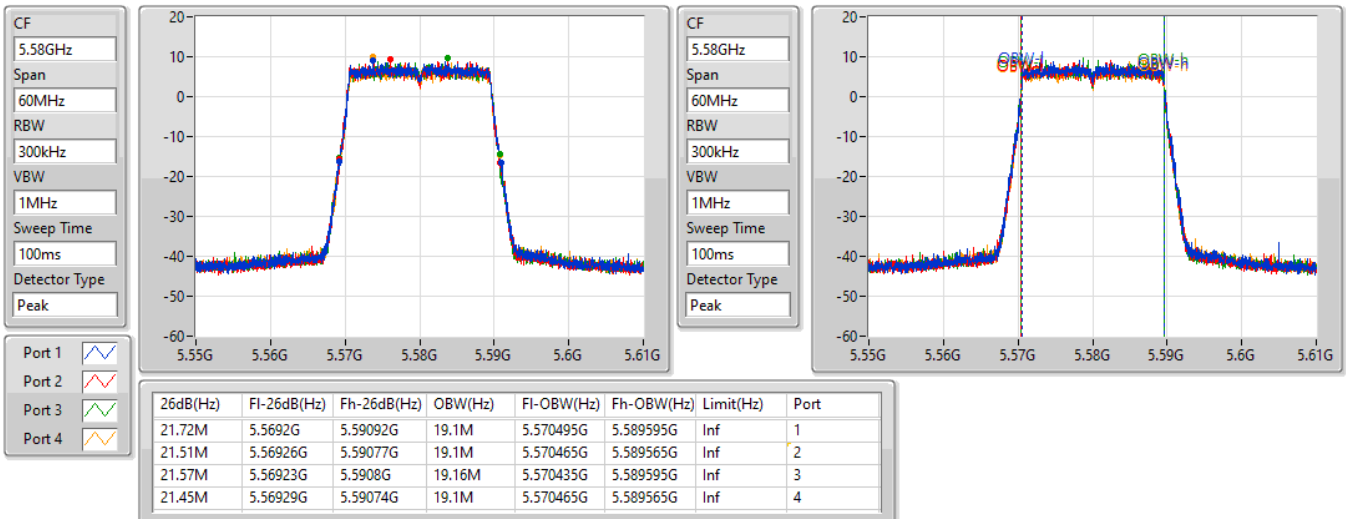


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

15/03/2022

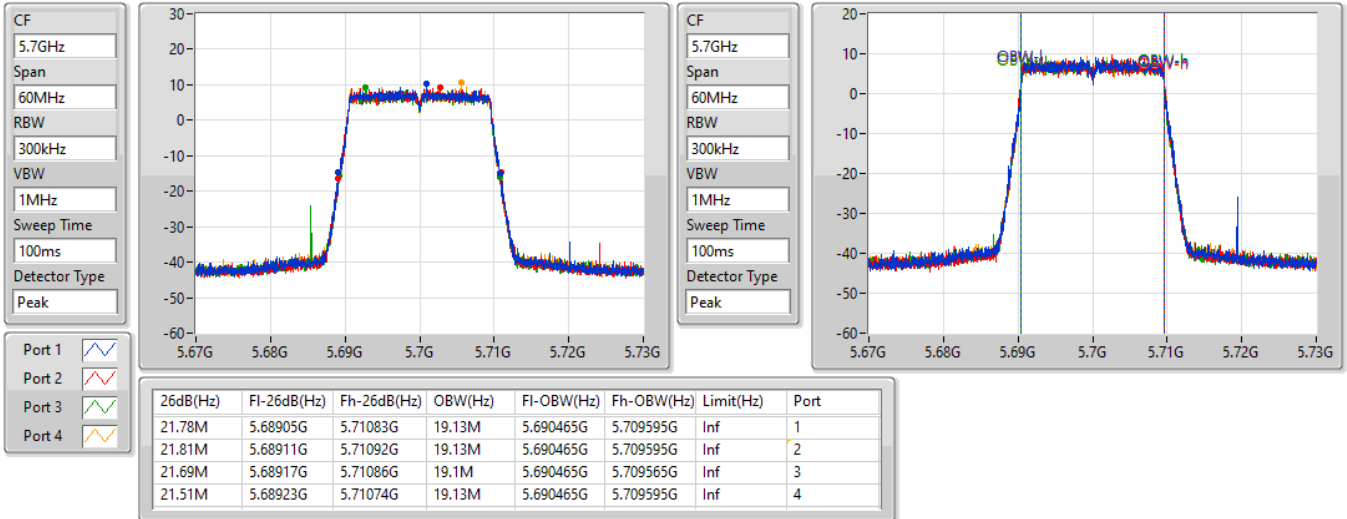


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5700MHz

15/03/2022

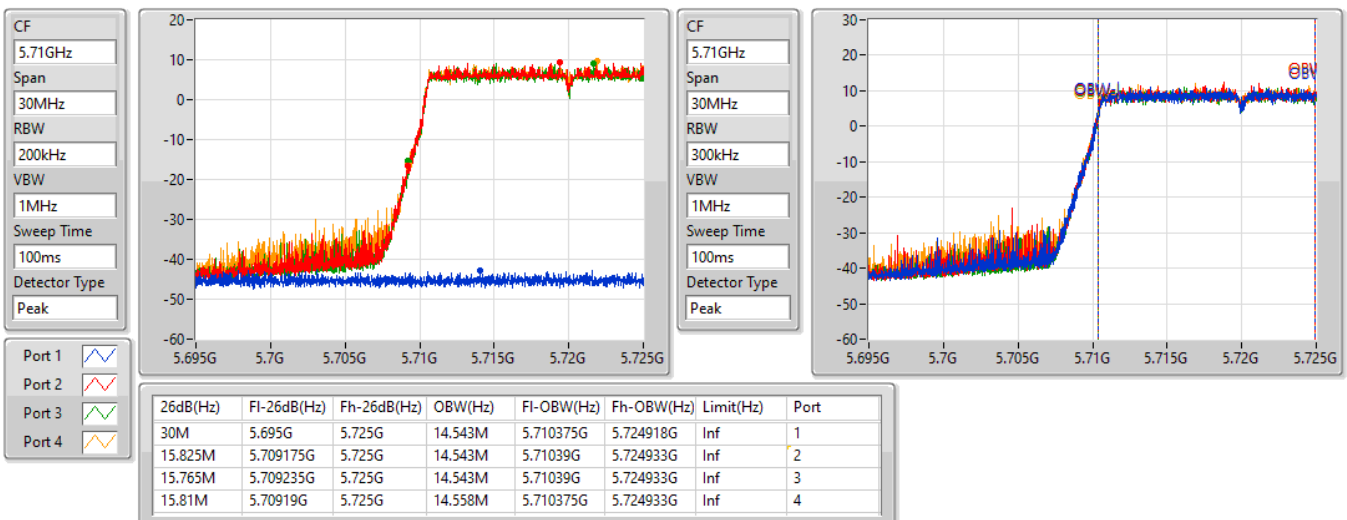


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

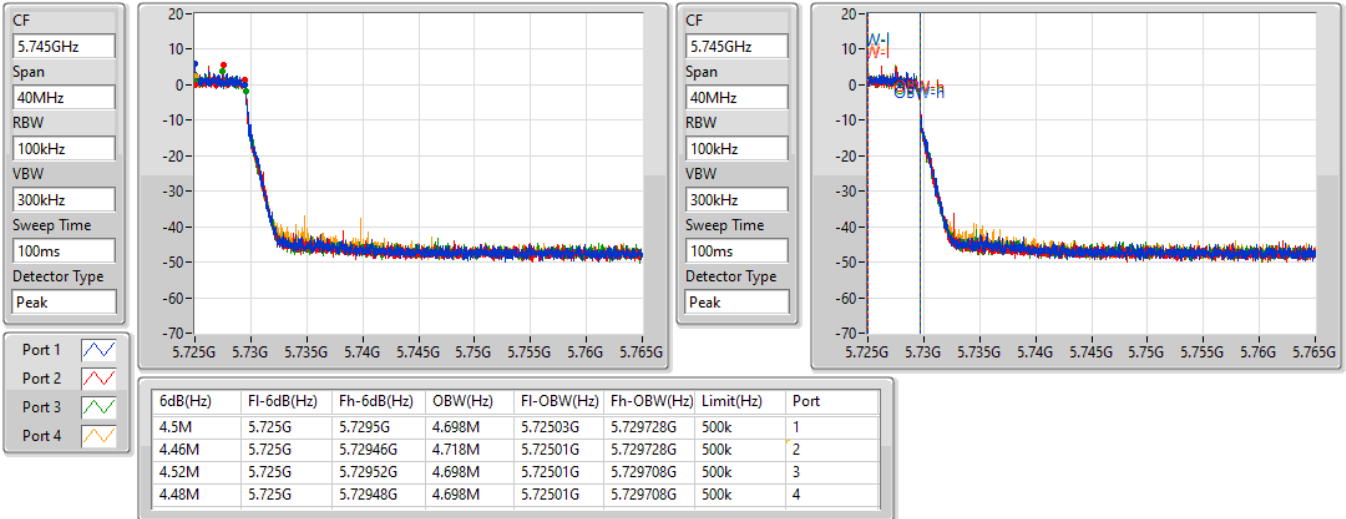
5720MHz Straddle 5.47-5.725GHz

31/03/2022

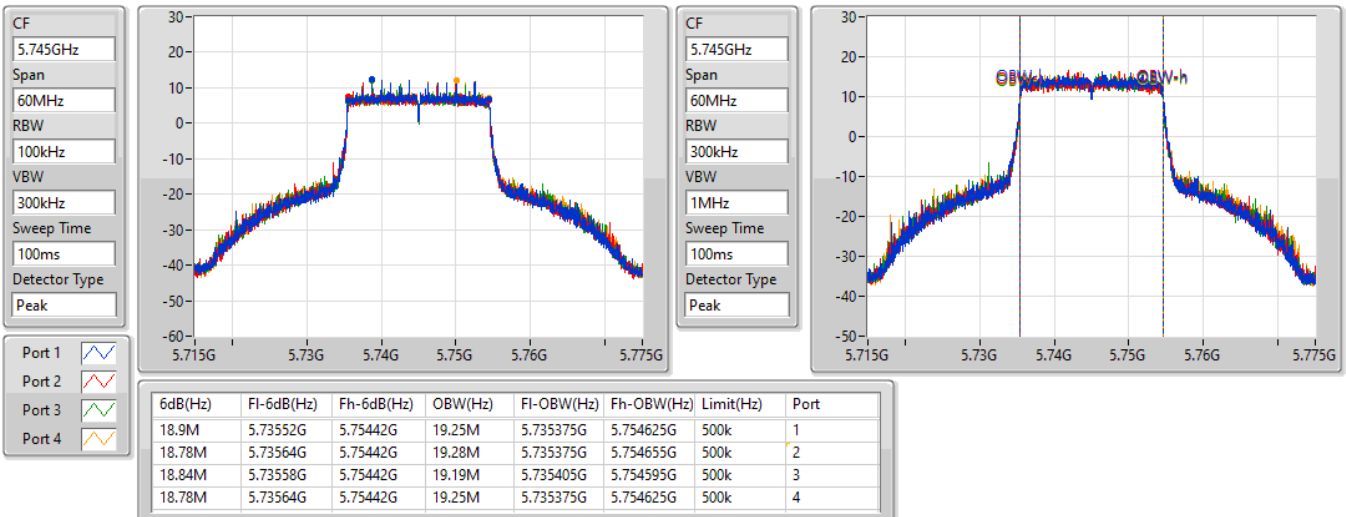


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/03/2022


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5745MHz

31/03/2022

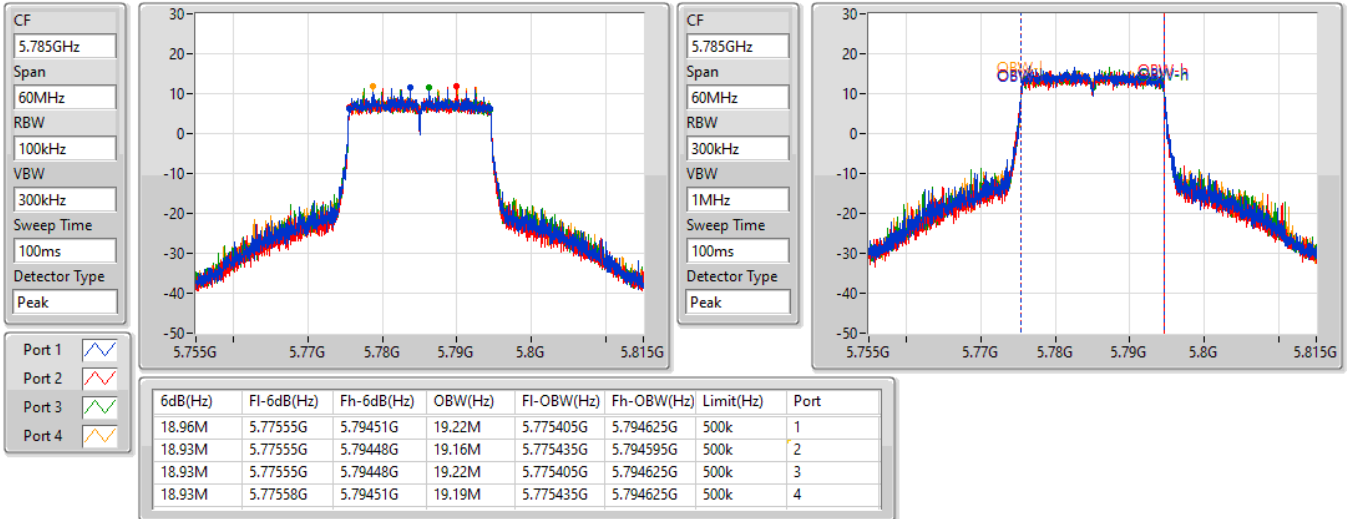


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

31/03/2022

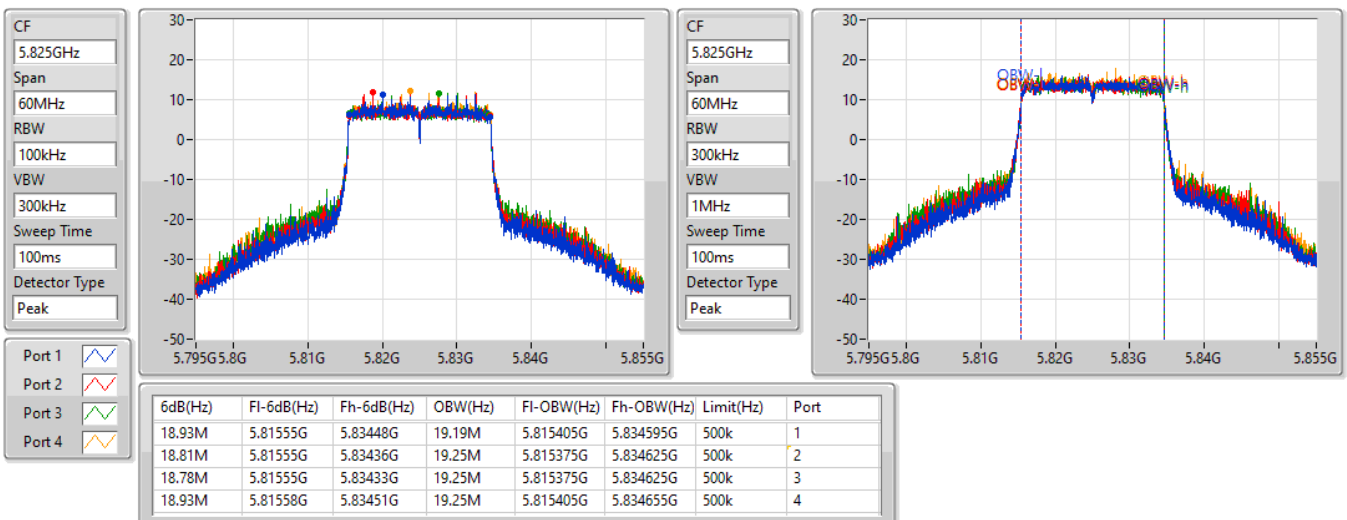


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

31/03/2022

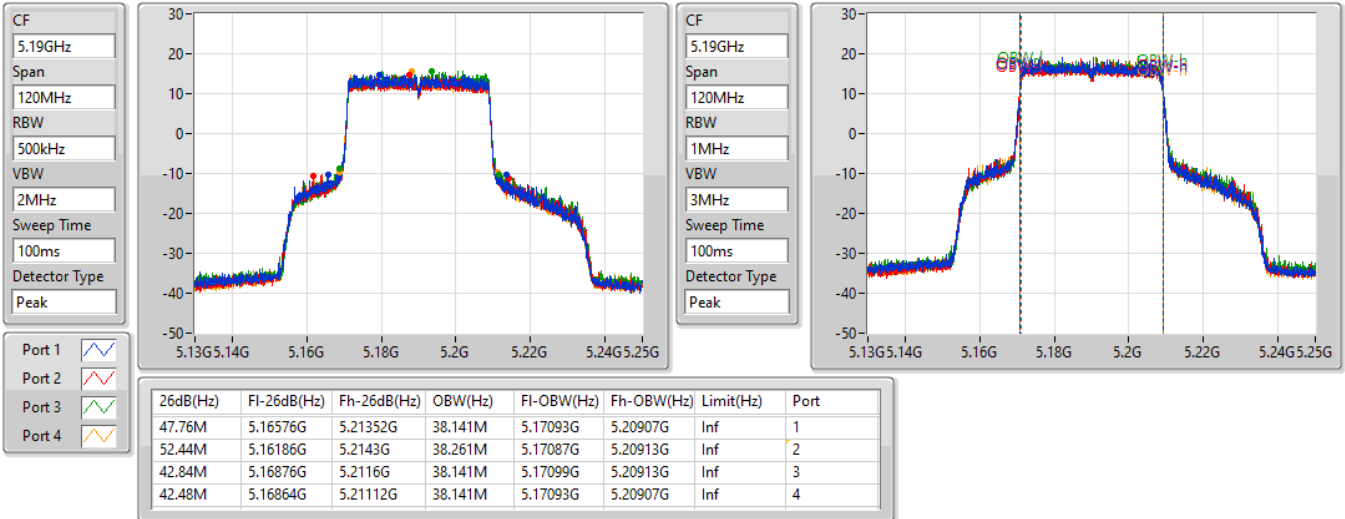


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

15/03/2022

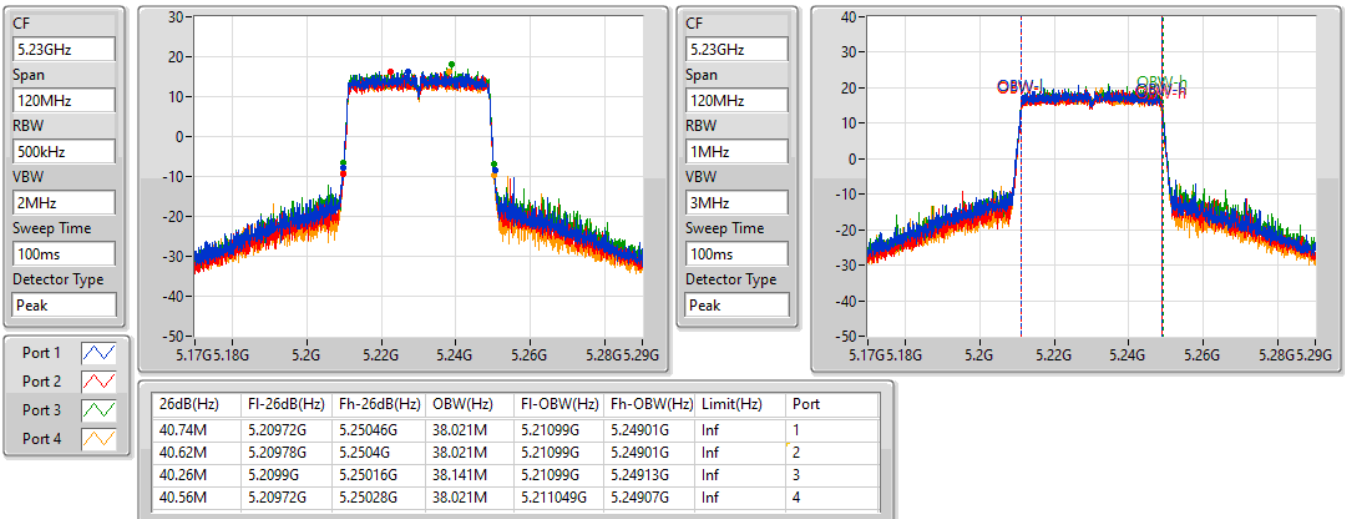


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

31/03/2022

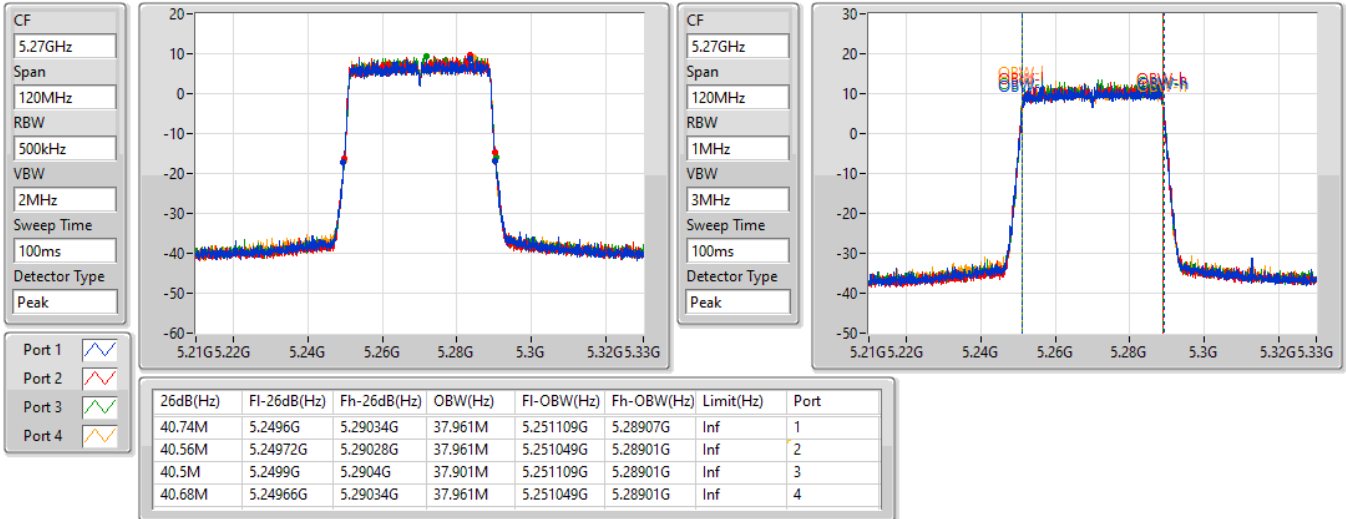


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

15/03/2022

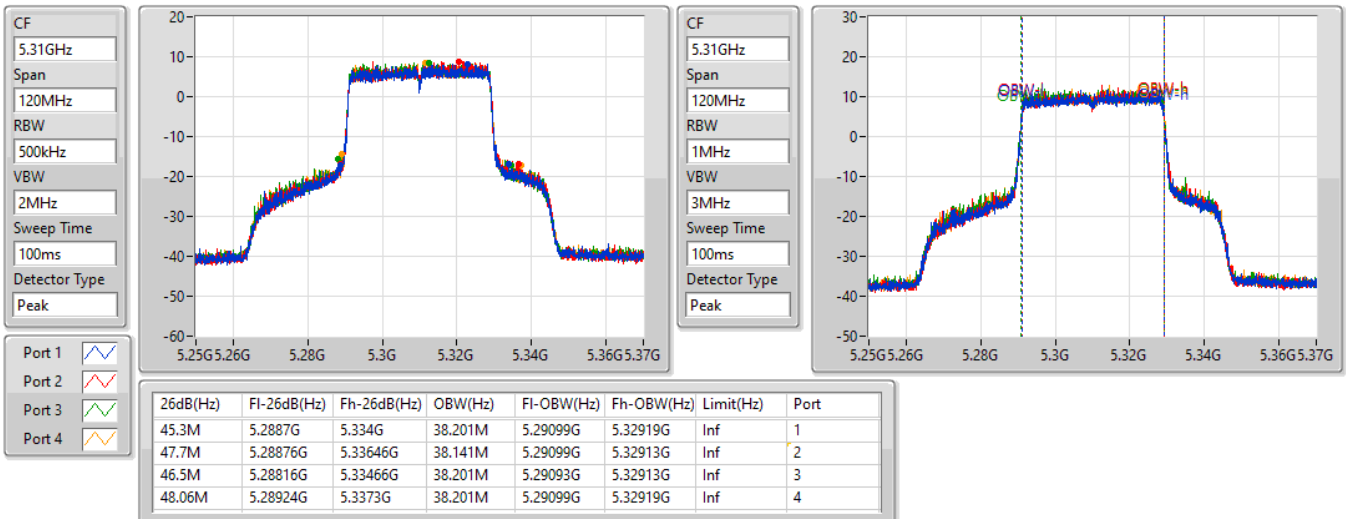


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

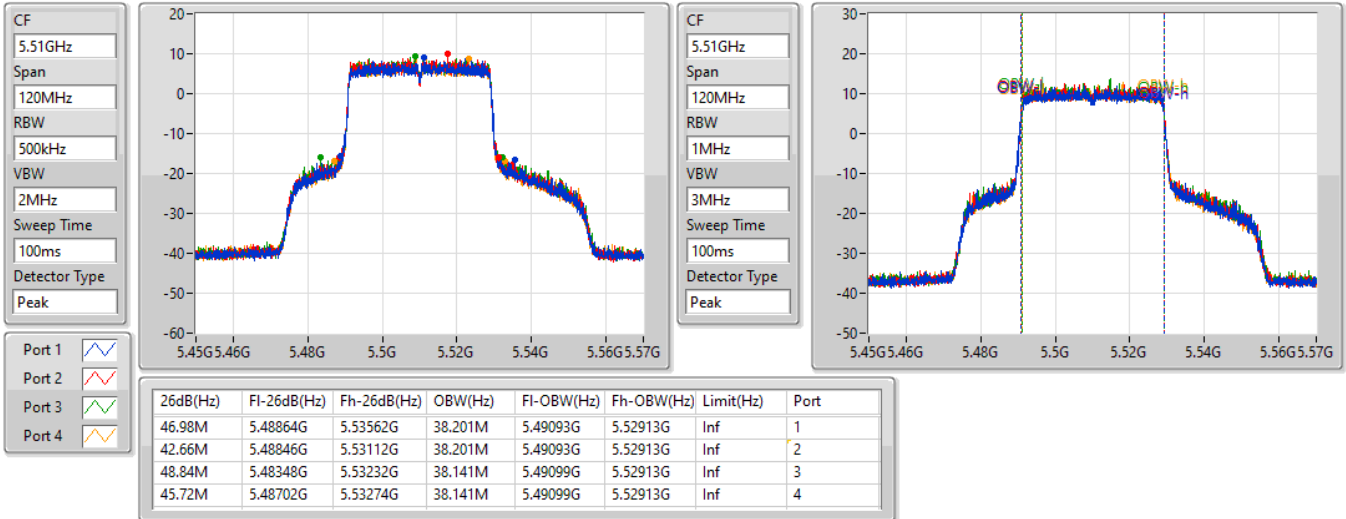
5310MHz

15/03/2022

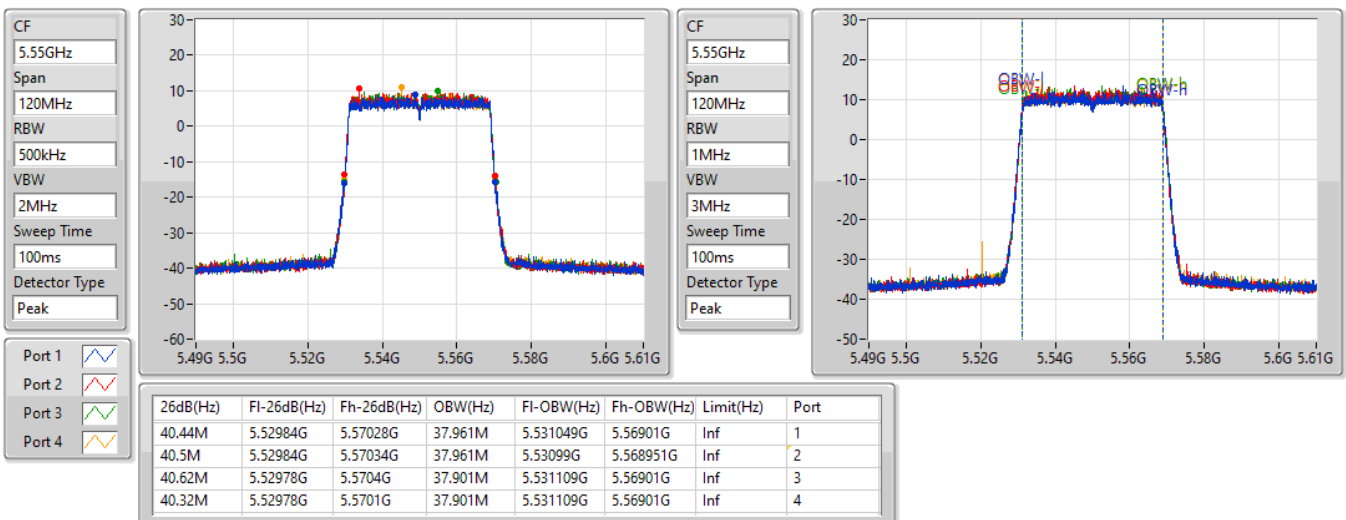


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

15/03/2022

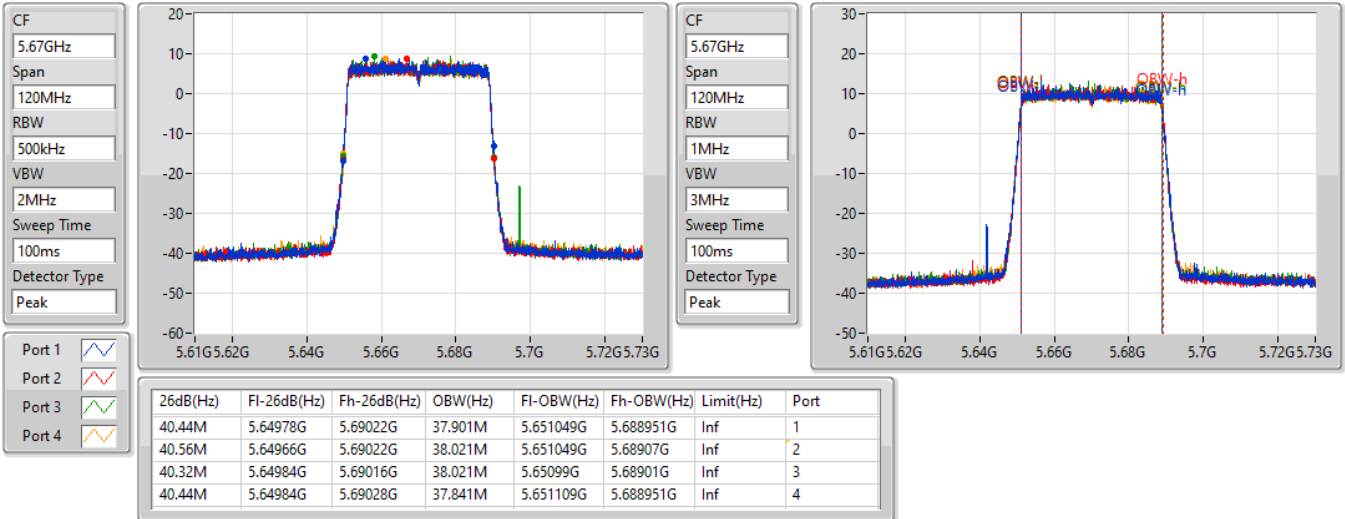

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

15/03/2022

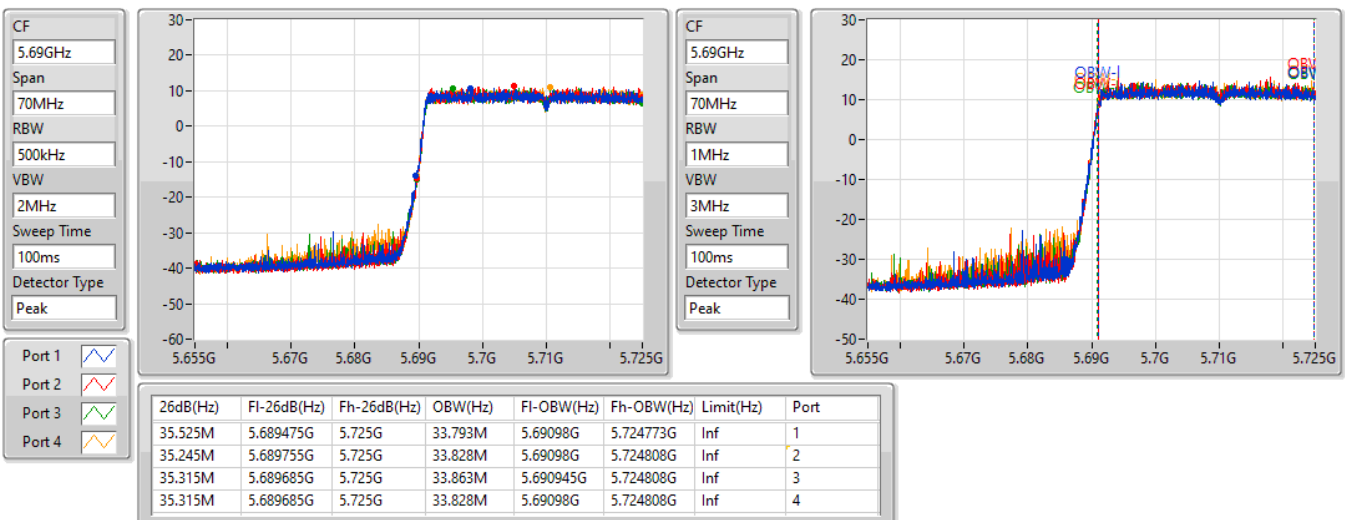


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

15/03/2022


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

31/03/2022

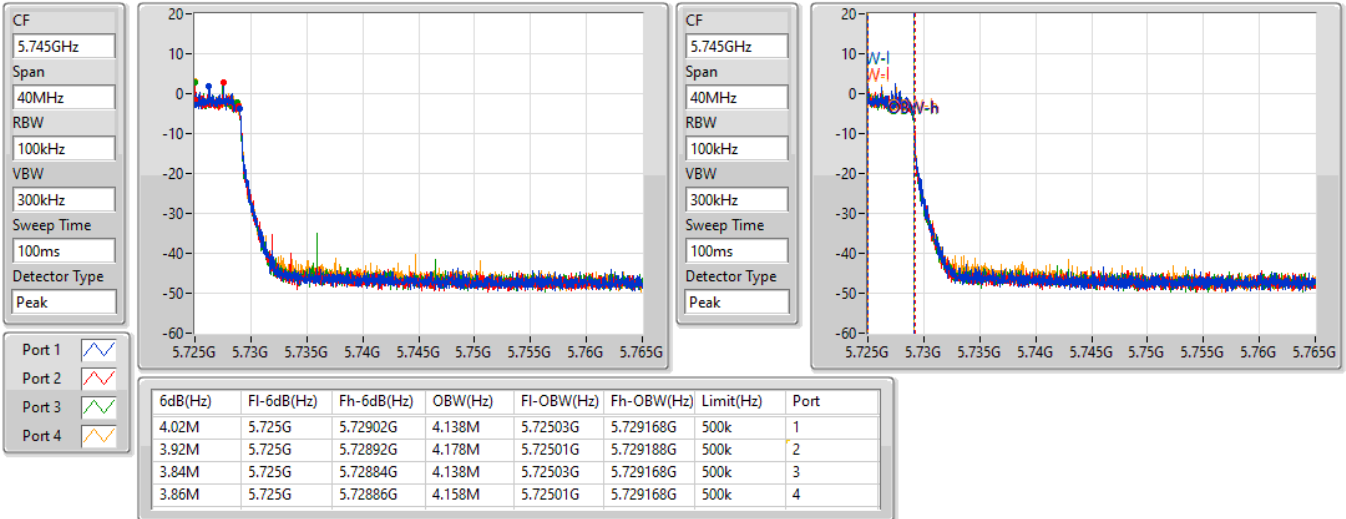


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

31/03/2022

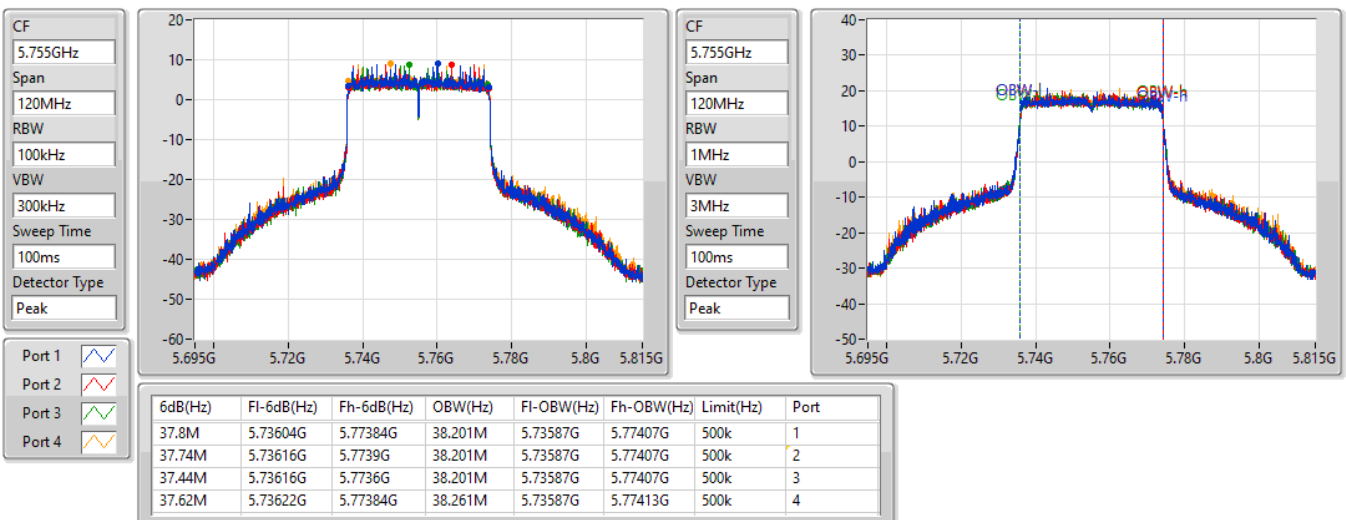


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

31/03/2022

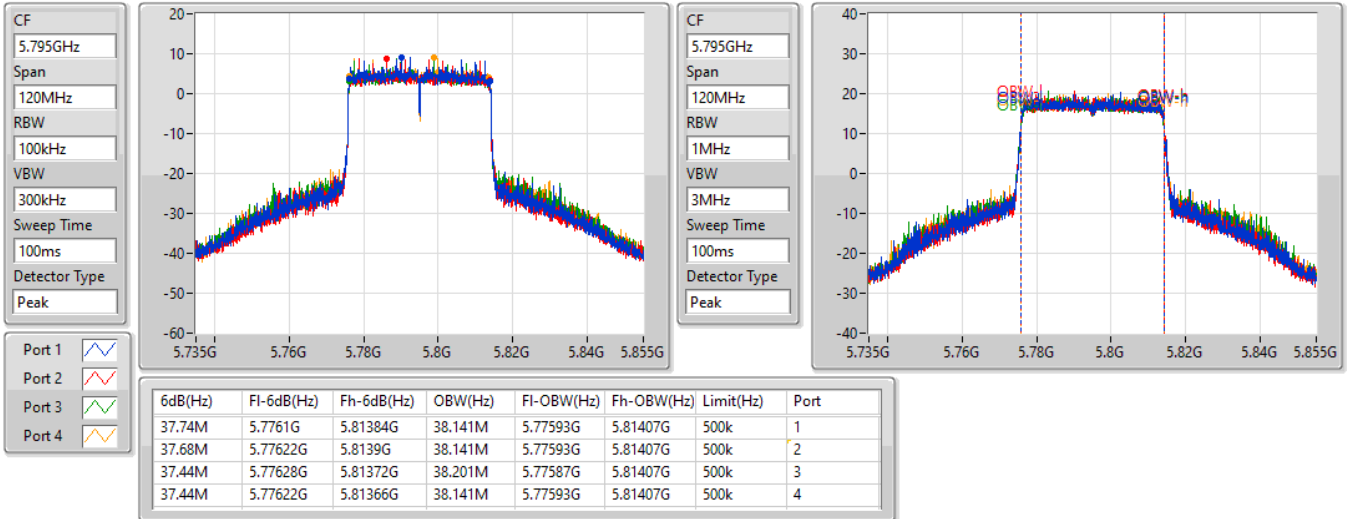


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

31/03/2022

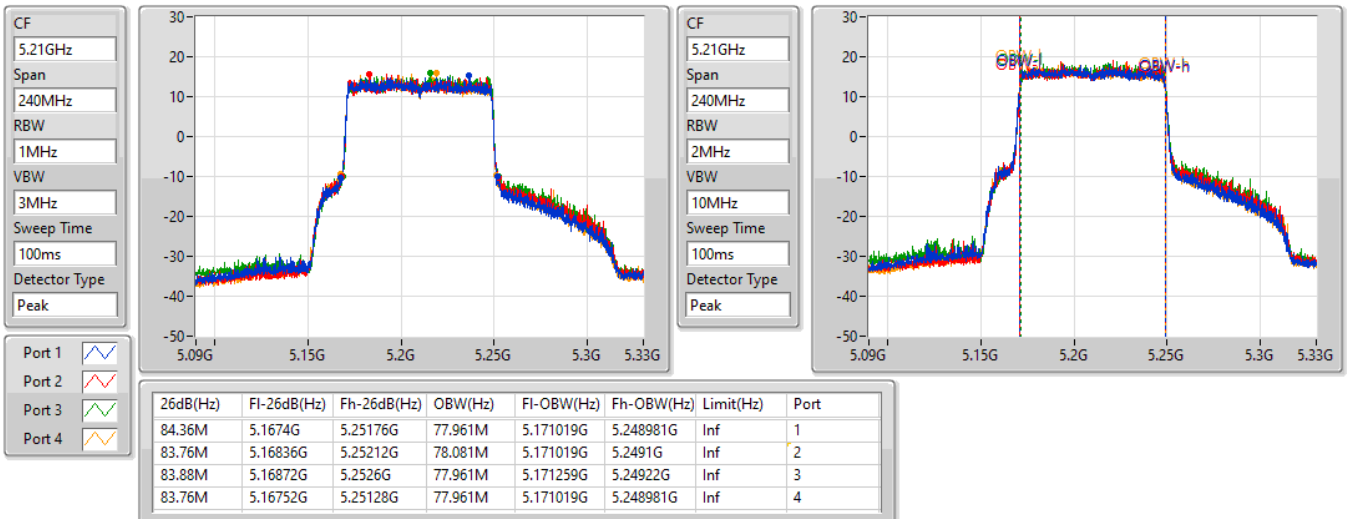


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

15/03/2022

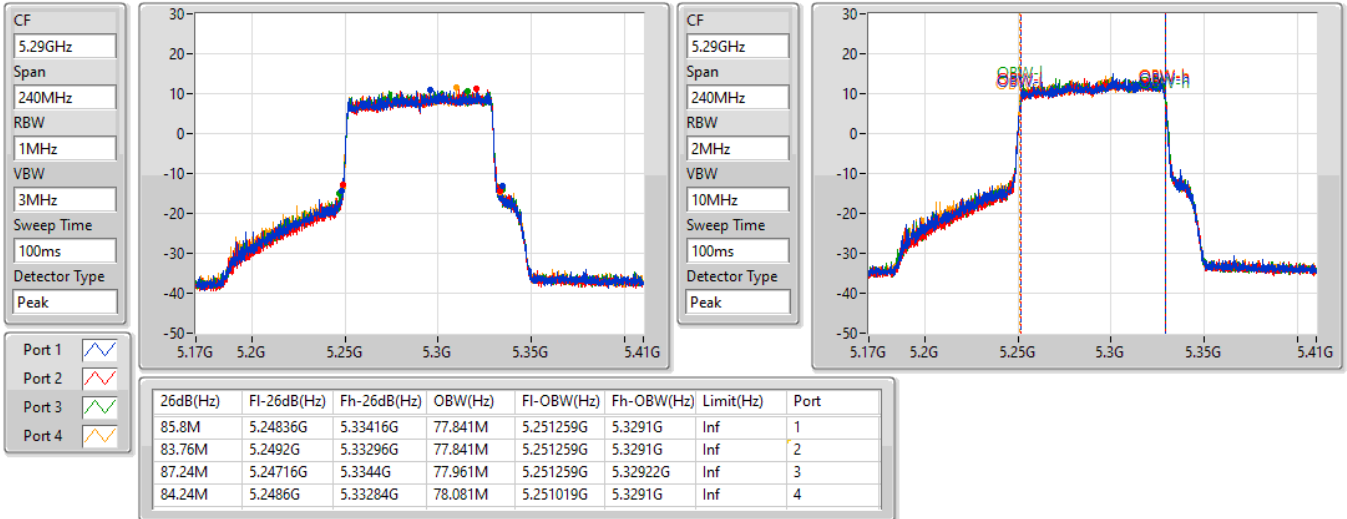


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

31/03/2022

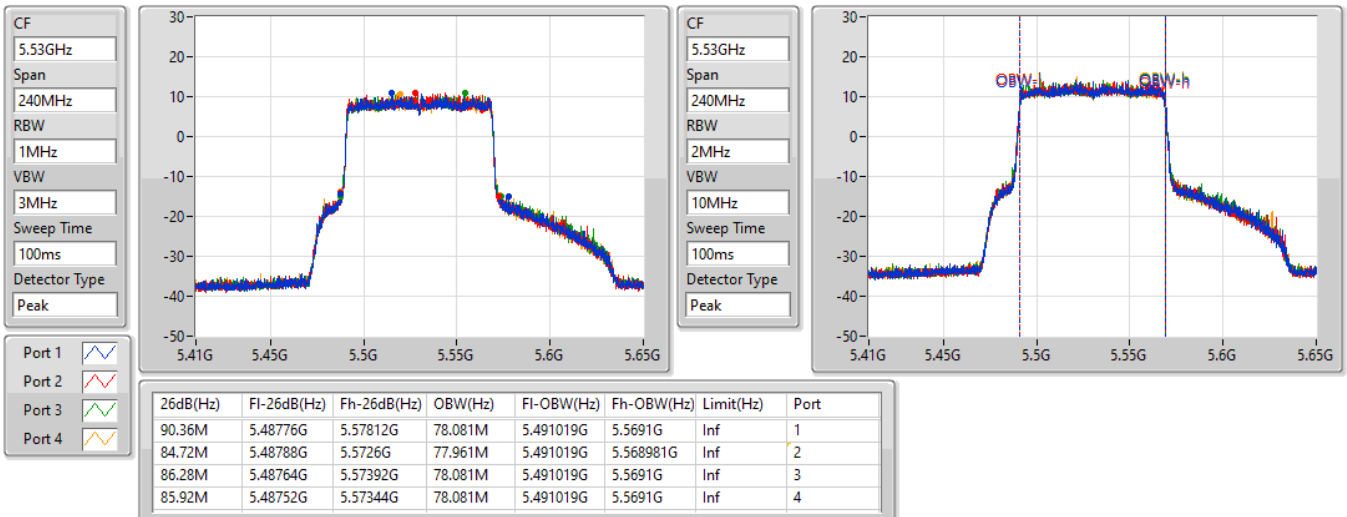


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

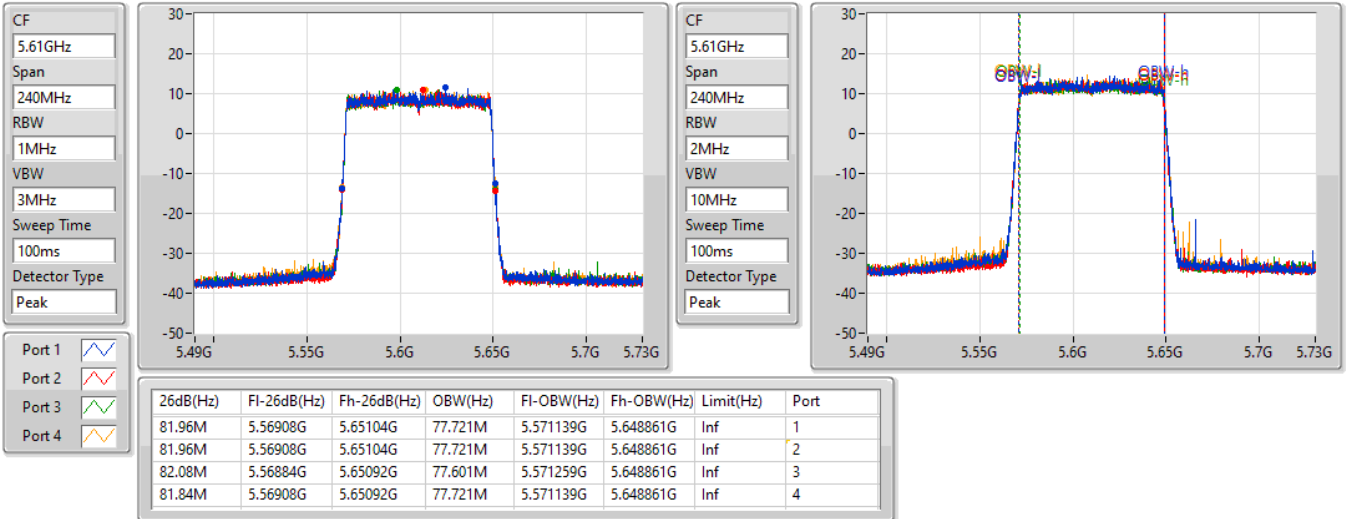
5530MHz

31/03/2022

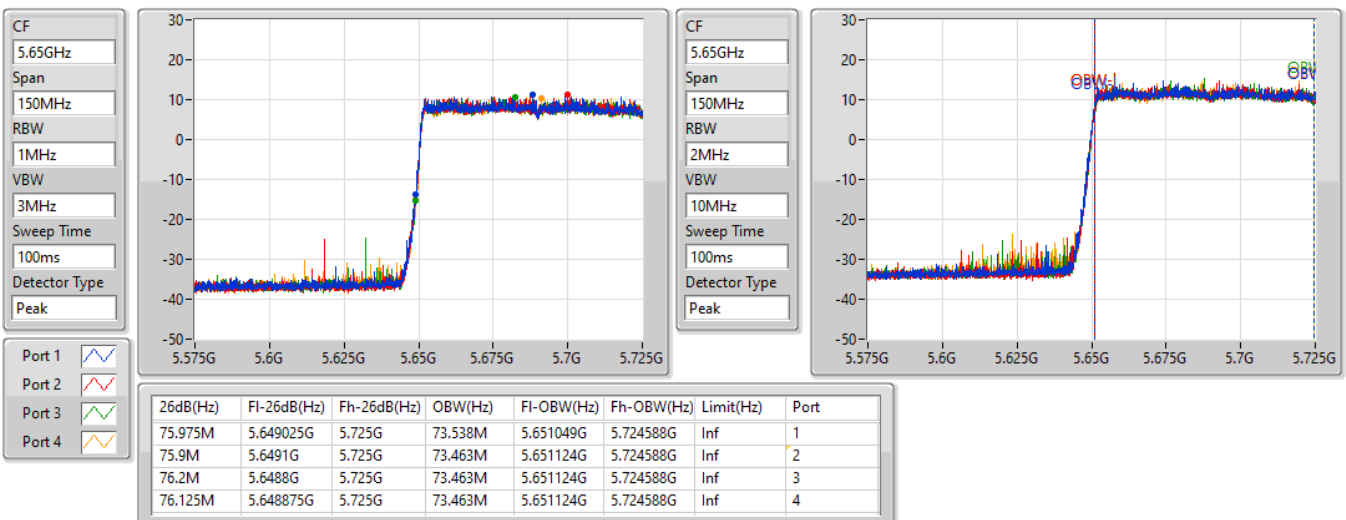


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

31/03/2022


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

31/03/2022

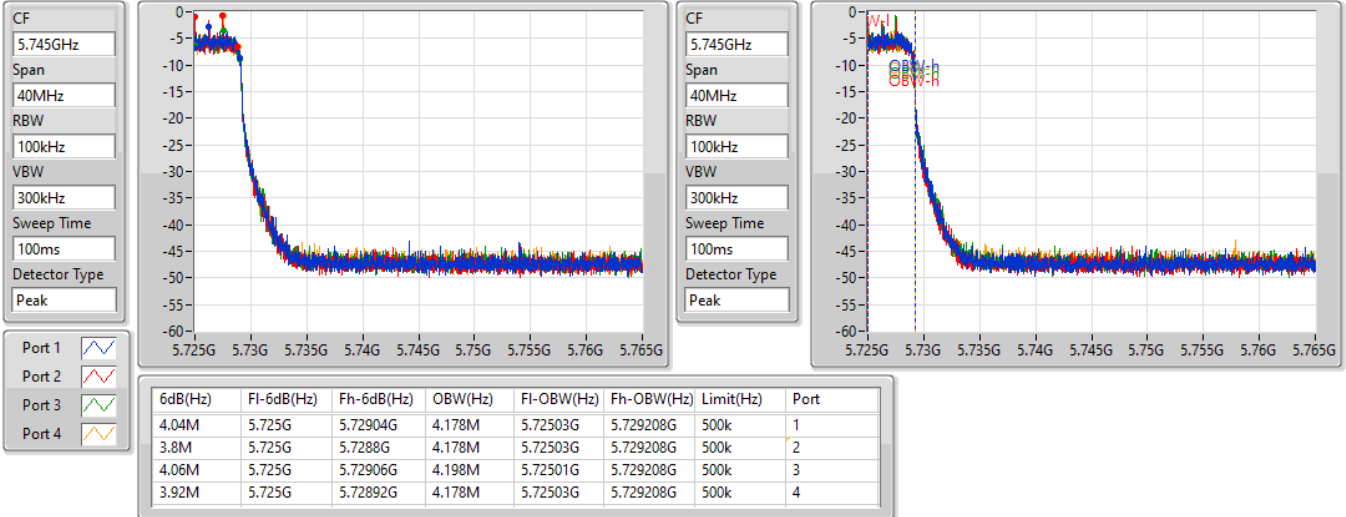


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

31/03/2022



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

31/03/2022

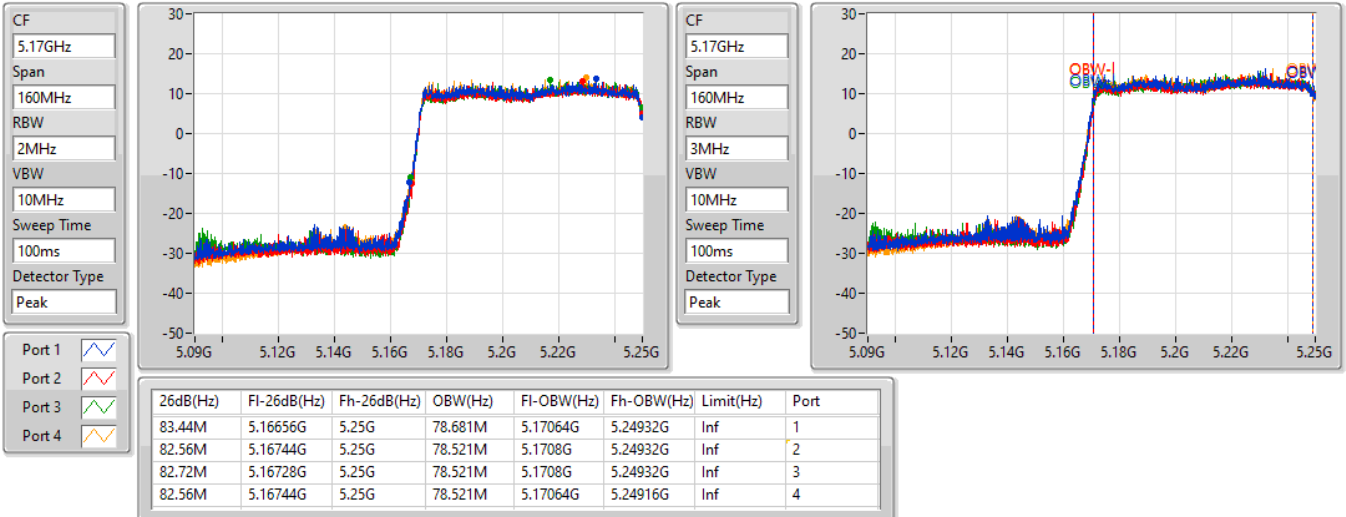


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

31/03/2022

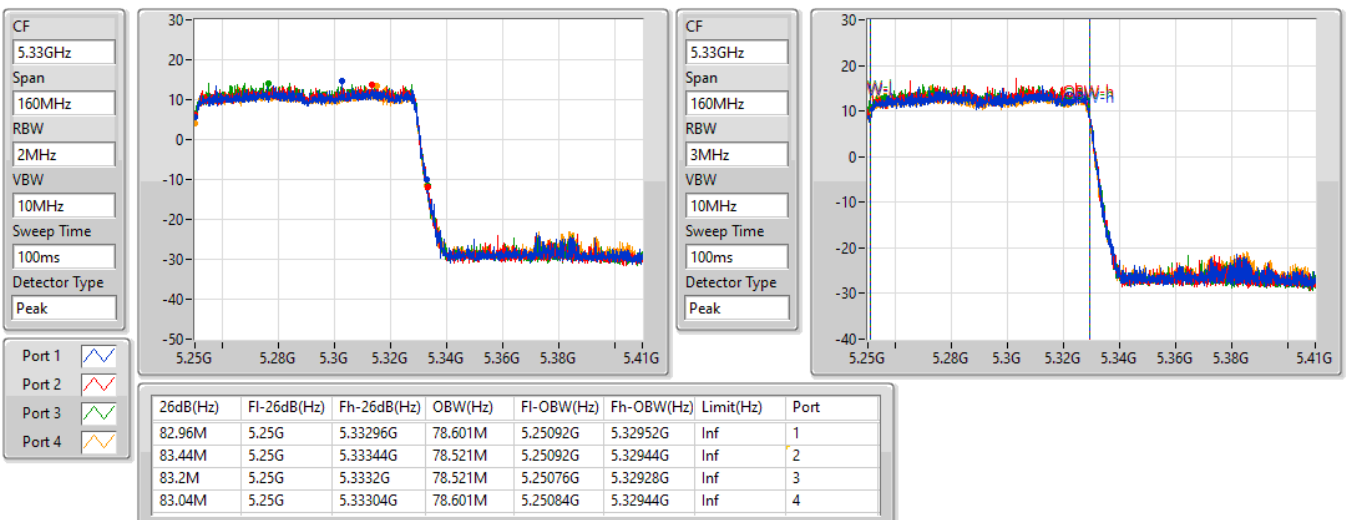


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

31/03/2022

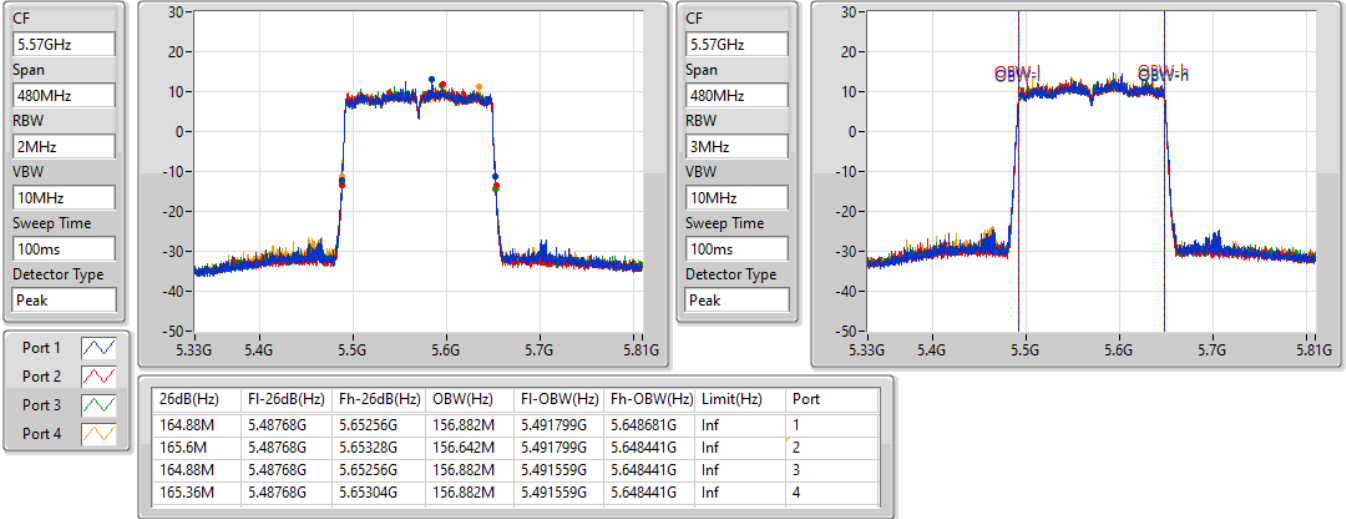


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

31/03/2022



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_Nss2,(MCS0)_4TX	28.08M	19.28M	19M3D1D	21.6M	19.13M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	44.1M	38.201M	38M2D1D	40.8M	38.081M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	86.76M	78.081M	78M1D1D	83.28M	77.841M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	83.04M	78.601M	78M6D1D	82.64M	78.441M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	28.74M	19.22M	19M2D1D	21.57M	19.1M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	47.22M	38.201M	38M2D1D	40.38M	37.901M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	95.04M	78.081M	78M1D1D	84.12M	77.841M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	83.2M	78.521M	78M5D1D	82.8M	78.521M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	27.39M	19.28M	19M3D1D	15.705M	14.513M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	47.28M	38.201M	38M2D1D	35.245M	33.828M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	87.12M	78.081M	78M1D1D	76.05M	73.463M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	165.6M	156.882M	157MD1D	164.88M	156.642M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	18.96M	19.7M	19M7D1D	4.44M	4.698M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	37.62M	38.501M	38M5D1D	3.9M	4.138M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	77.16M	78.201M	78M2D1D	3.82M	4.158M

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_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	26.43M	19.25M	23.55M	19.25M	22.56M	19.19M	26.19M	19.28M
5200MHz	Pass	Inf	27.93M	19.19M	24.72M	19.22M	28.08M	19.25M	21.6M	19.16M
5240MHz	Pass	Inf	21.69M	19.13M	21.81M	19.16M	21.78M	19.19M	21.66M	19.13M
5260MHz	Pass	Inf	21.78M	19.1M	21.6M	19.13M	21.75M	19.13M	21.57M	19.1M
5300MHz	Pass	Inf	21.63M	19.1M	21.6M	19.1M	21.78M	19.13M	21.66M	19.16M
5320MHz	Pass	Inf	28.74M	19.22M	22.35M	19.22M	23.43M	19.22M	28.05M	19.22M
5500MHz	Pass	Inf	24.06M	19.25M	24.21M	19.28M	27.39M	19.28M	22.86M	19.25M
5580MHz	Pass	Inf	21.81M	19.1M	21.66M	19.1M	21.84M	19.1M	21.48M	19.1M
5700MHz	Pass	Inf	21.72M	19.13M	21.51M	19.13M	21.78M	19.1M	21.6M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.72M	14.528M	15.72M	14.513M	15.735M	14.558M	15.705M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.718M	4.46M	4.698M	4.5M	4.738M	4.44M	4.698M
5745MHz	Pass	500k	18.81M	19.31M	18.48M	19.28M	18.6M	19.28M	18.9M	19.34M
5785MHz	Pass	500k	18.87M	19.28M	18.96M	19.25M	18.87M	19.25M	18.87M	19.28M
5825MHz	Pass	500k	18.87M	19.43M	18.69M	19.52M	18.81M	19.7M	18.9M	19.46M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	43.86M	38.141M	42.84M	38.141M	41.88M	38.141M	42.96M	38.201M
5230MHz	Pass	Inf	40.8M	38.141M	41.28M	38.081M	44.1M	38.141M	40.92M	38.081M
5270MHz	Pass	Inf	40.56M	38.021M	40.38M	37.901M	40.62M	37.961M	40.56M	38.021M
5310MHz	Pass	Inf	43.08M	38.201M	47.16M	38.141M	47.16M	38.201M	47.22M	38.141M
5510MHz	Pass	Inf	44.04M	38.141M	43.5M	38.141M	47.28M	38.201M	43.68M	38.201M
5550MHz	Pass	Inf	40.68M	37.961M	40.62M	37.961M	40.68M	37.961M	40.62M	37.901M
5670MHz	Pass	Inf	40.86M	38.021M	40.62M	37.901M	41.1M	37.961M	40.26M	37.961M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.385M	33.828M	35.315M	33.828M	35.245M	33.863M	35.315M	33.898M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.158M	3.9M	4.158M	3.98M	4.158M	3.96M	4.138M
5755MHz	Pass	500k	37.56M	38.261M	37.38M	38.141M	37.62M	38.261M	37.56M	38.261M
5795MHz	Pass	500k	37.2M	38.321M	37.62M	38.261M	37.56M	38.501M	37.62M	38.321M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	86.28M	78.081M	86.76M	78.081M	83.28M	77.841M	83.88M	77.961M
5290MHz	Pass	Inf	90.12M	77.961M	85.32M	77.841M	84.12M	77.961M	95.04M	78.081M
5530MHz	Pass	Inf	85.8M	77.961M	84.84M	77.961M	87.12M	77.961M	84.72M	78.081M
5610MHz	Pass	Inf	82.2M	77.721M	82.08M	77.721M	82.08M	77.721M	81.48M	77.721M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.05M	73.463M	76.05M	73.463M	76.275M	73.538M	76.05M	73.538M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.198M	3.82M	4.158M	3.94M	4.178M	3.92M	4.178M
5775MHz	Pass	500k	76.68M	78.081M	76.68M	77.961M	76.2M	78.081M	77.16M	78.201M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.64M	78.601M	83.04M	78.441M	82.72M	78.441M	82.72M	78.441M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.04M	78.521M	82.96M	78.521M	82.8M	78.521M	83.2M	78.521M
5570MHz	Pass	Inf	165.6M	156.642M	164.88M	156.882M	165.12M	156.882M	165.6M	156.882M

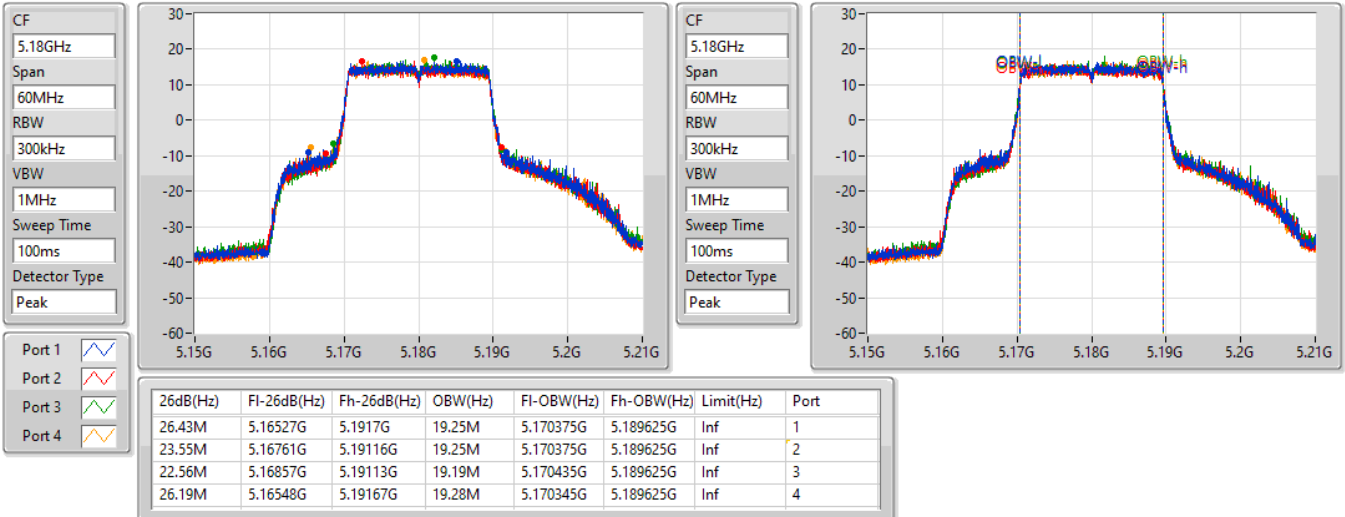
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

5180MHz

31/03/2022

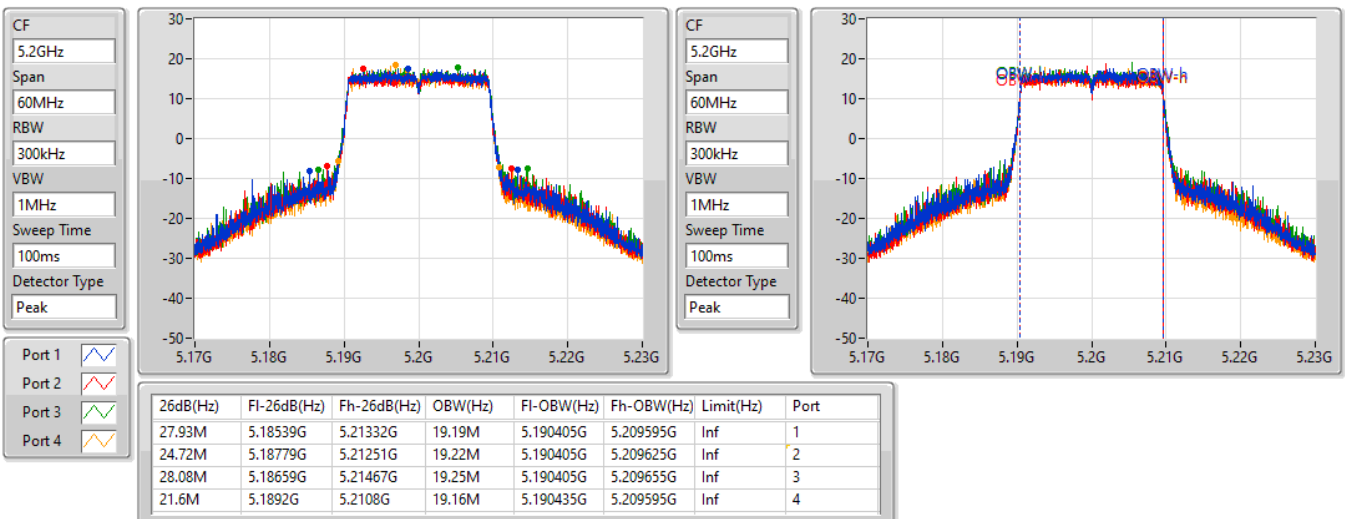


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

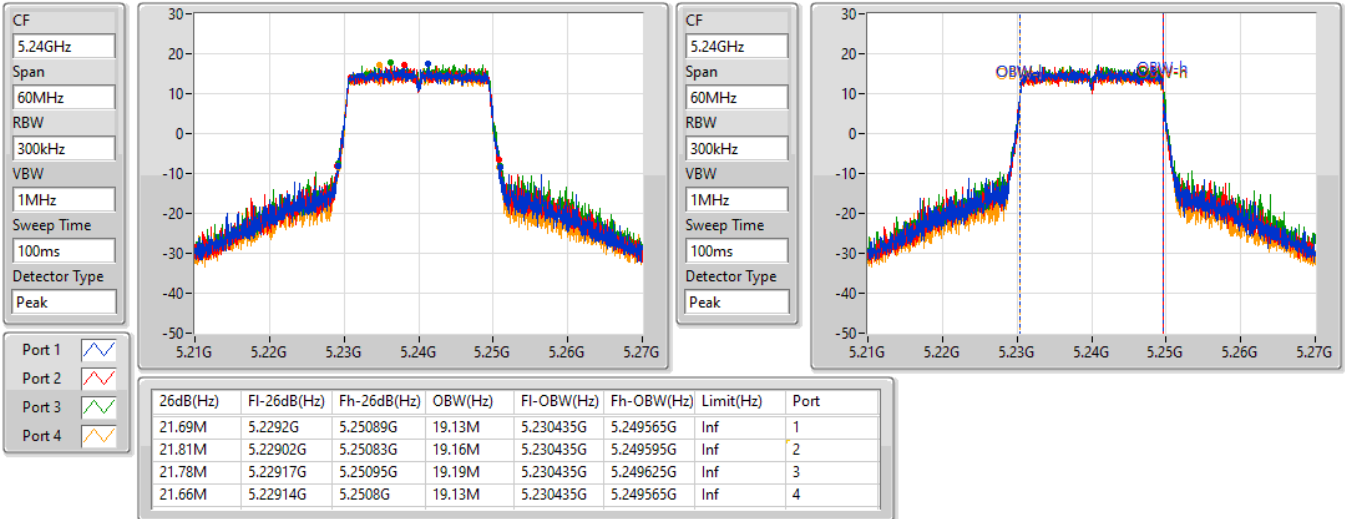
5200MHz

31/03/2022

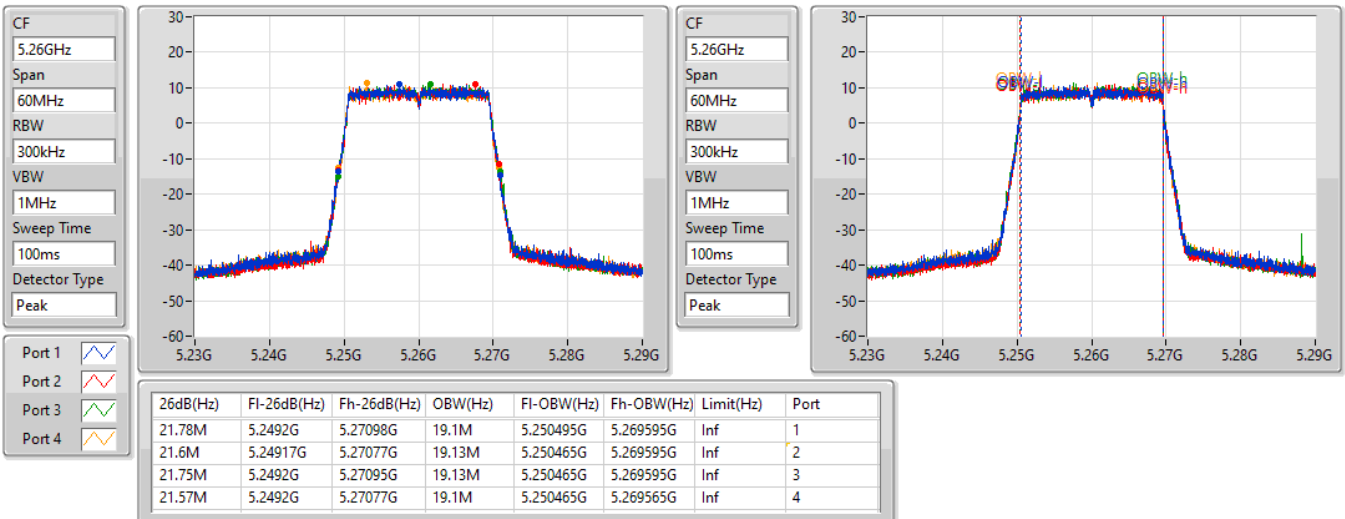


802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5240MHz

31/03/2022


802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5260MHz

31/03/2022

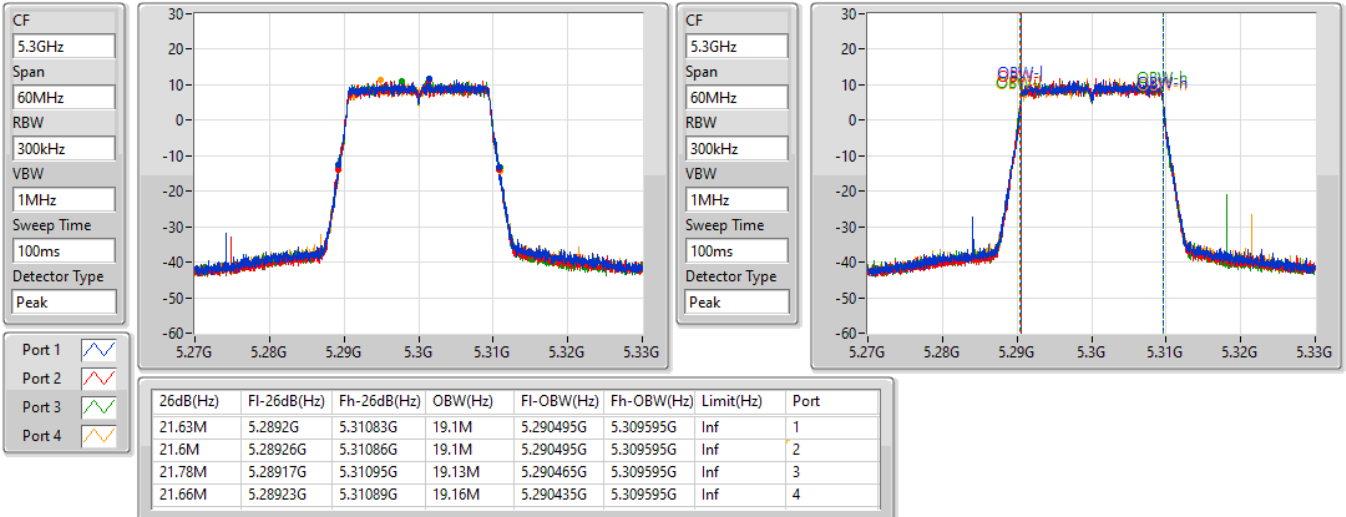


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

5300MHz

31/03/2022

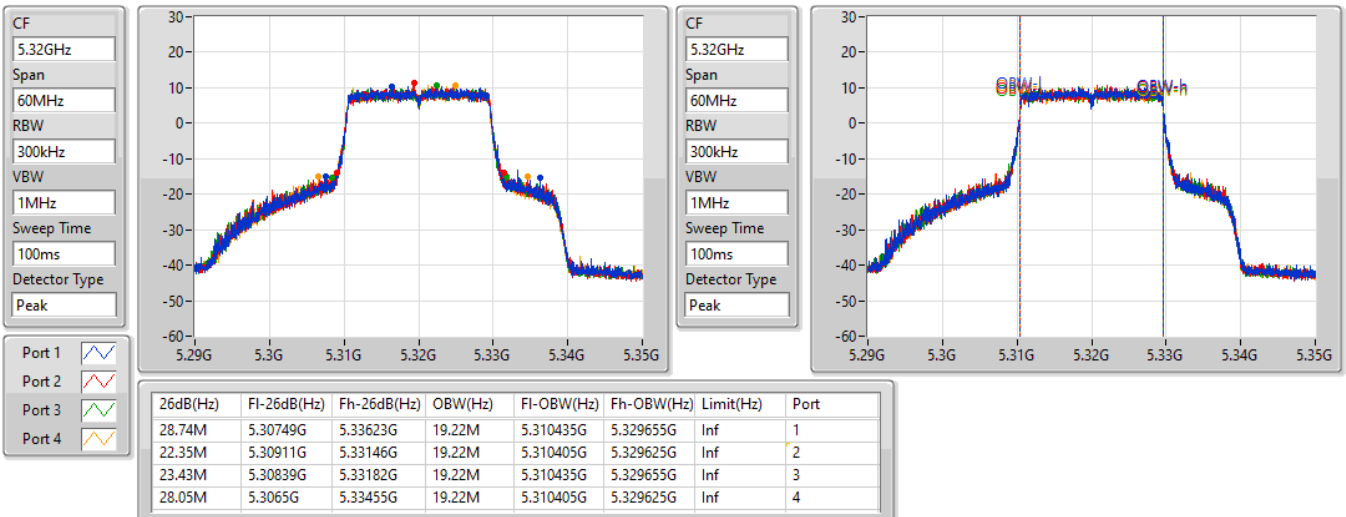


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

5320MHz

31/03/2022

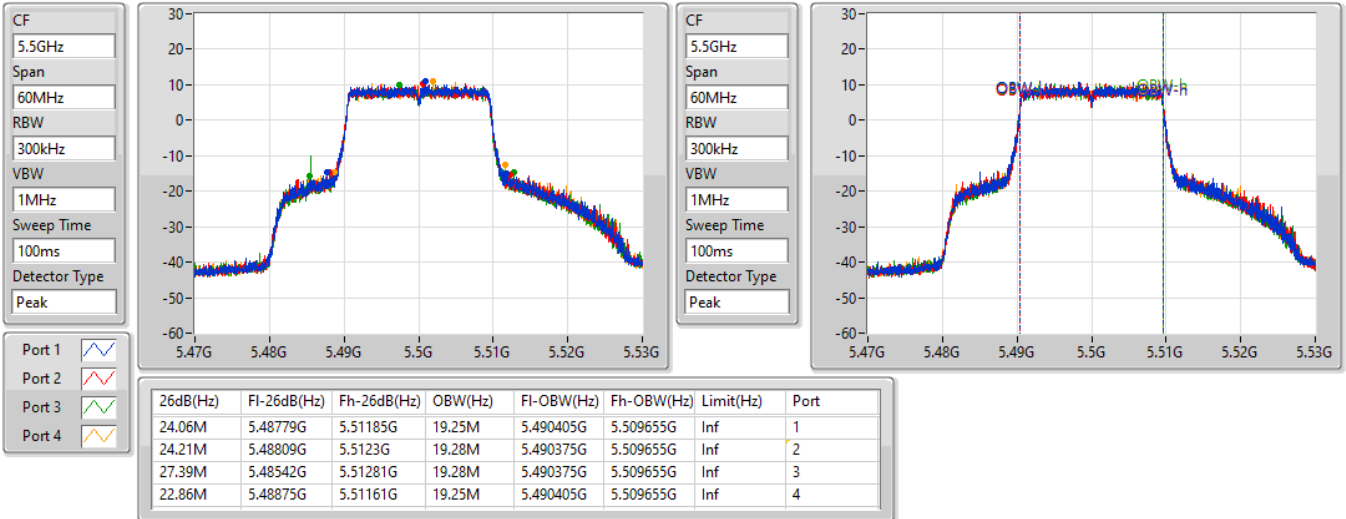


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

5500MHz

31/03/2022

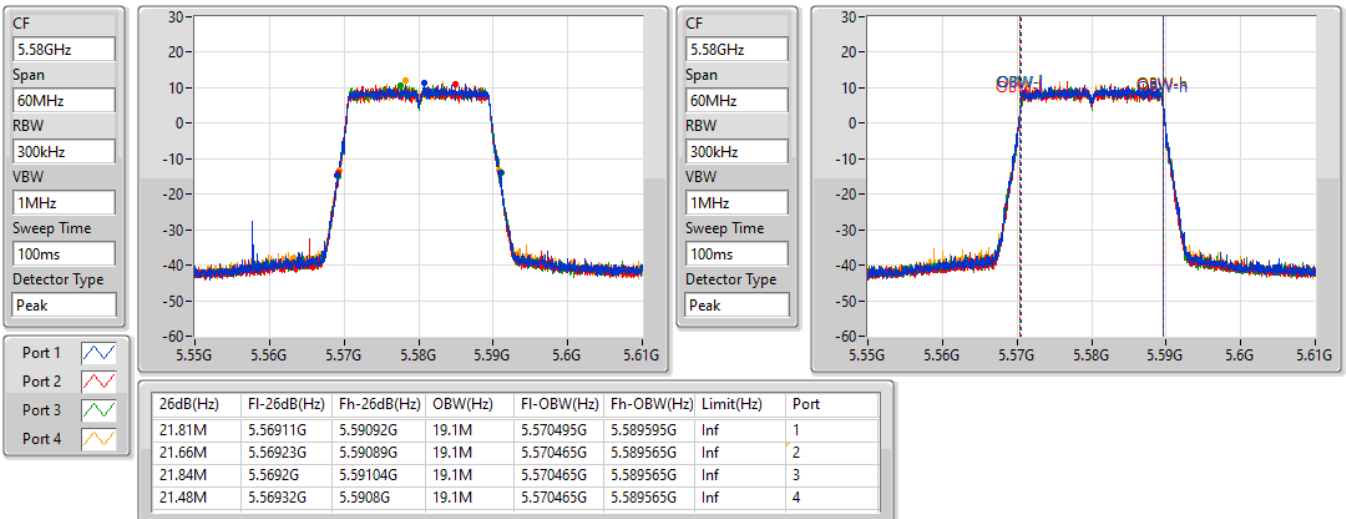


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

5580MHz

31/03/2022

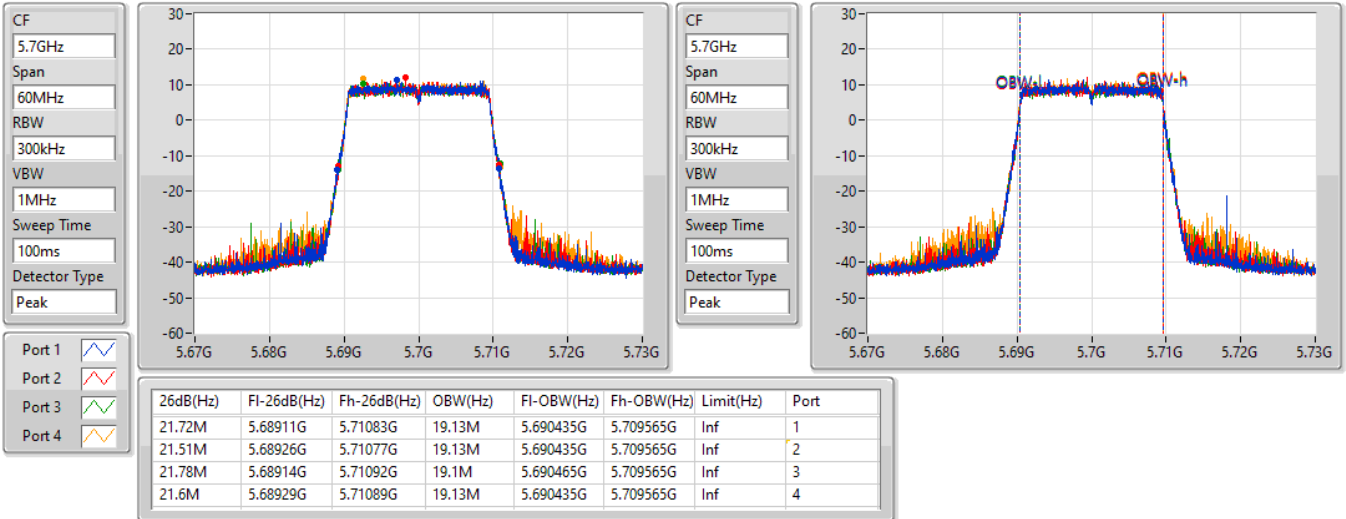


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

5700MHz

31/03/2022

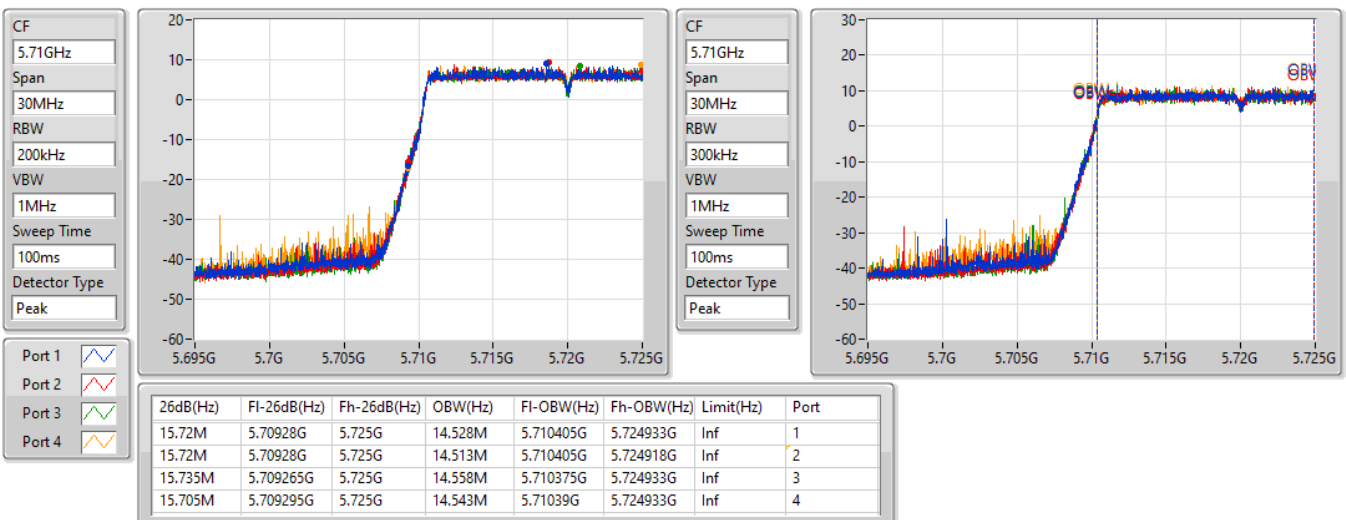


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW

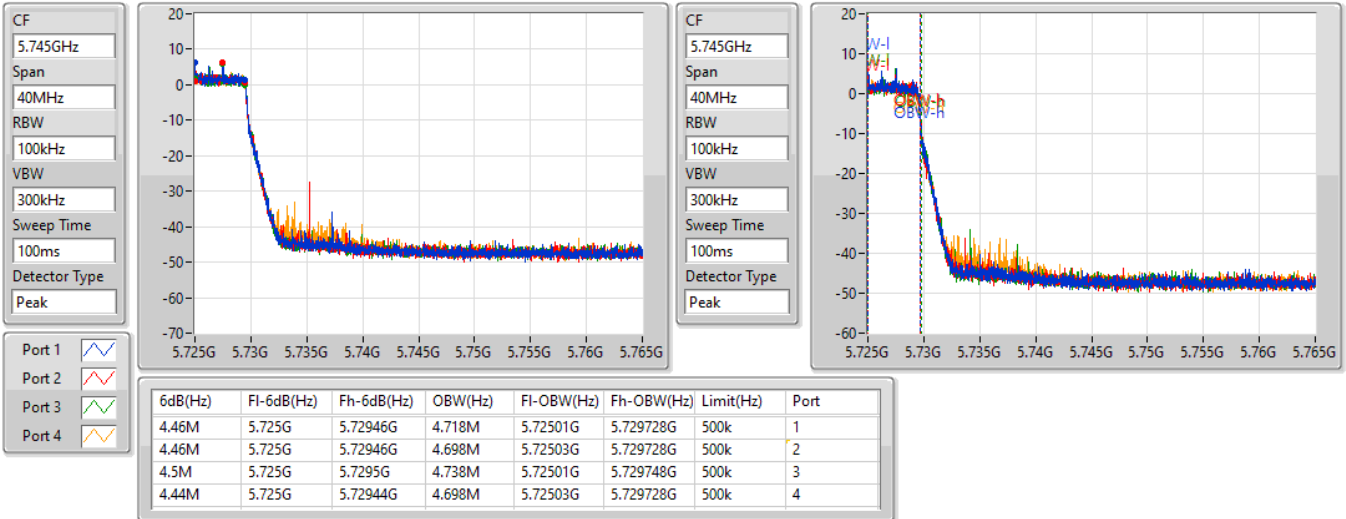
5720MHz Straddle 5.47-5.725GHz

31/03/2022

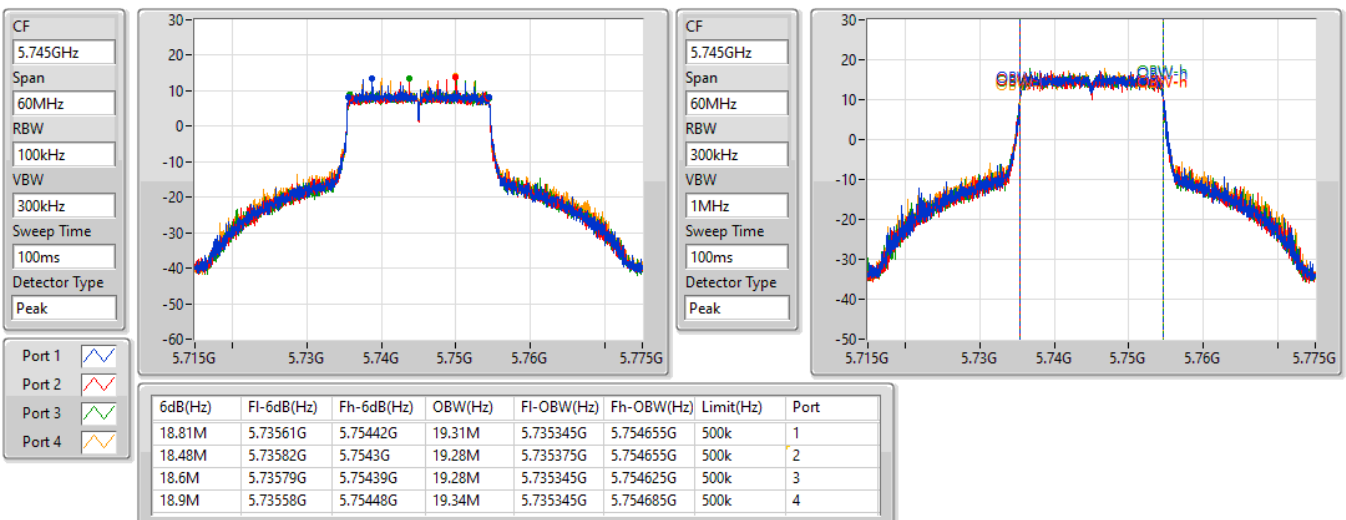


802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/03/2022

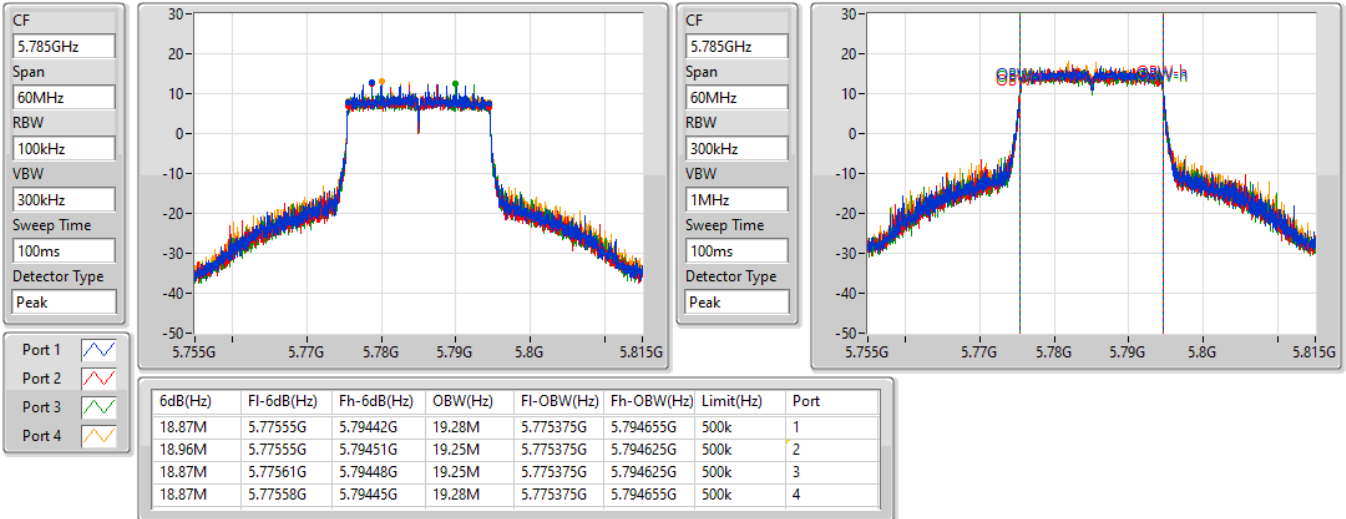

802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5745MHz

31/03/2022

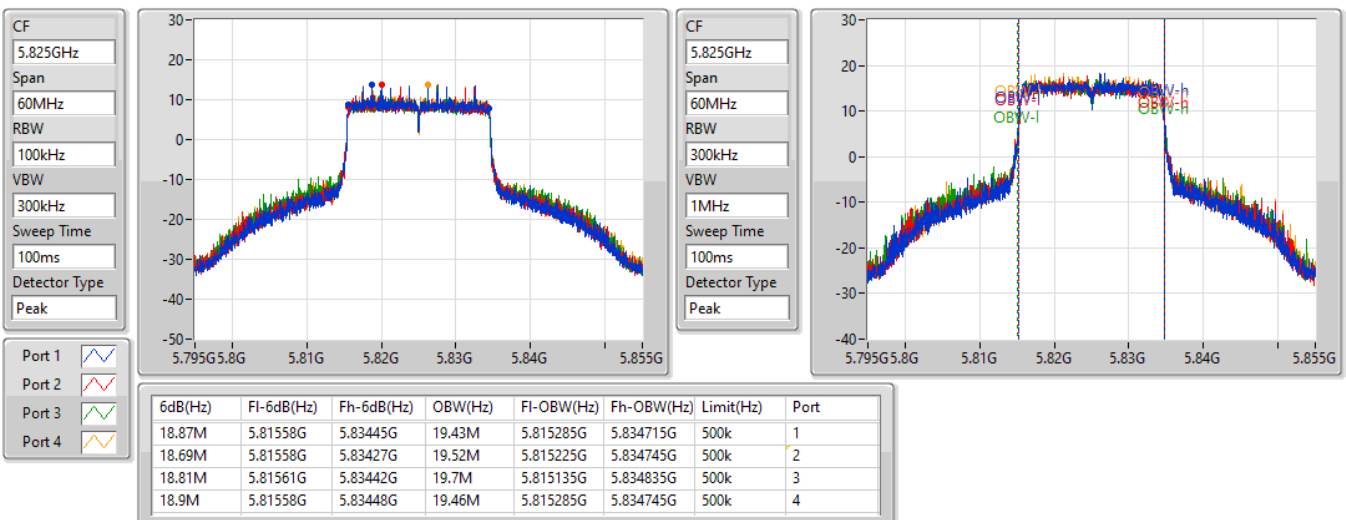


802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5785MHz

31/03/2022

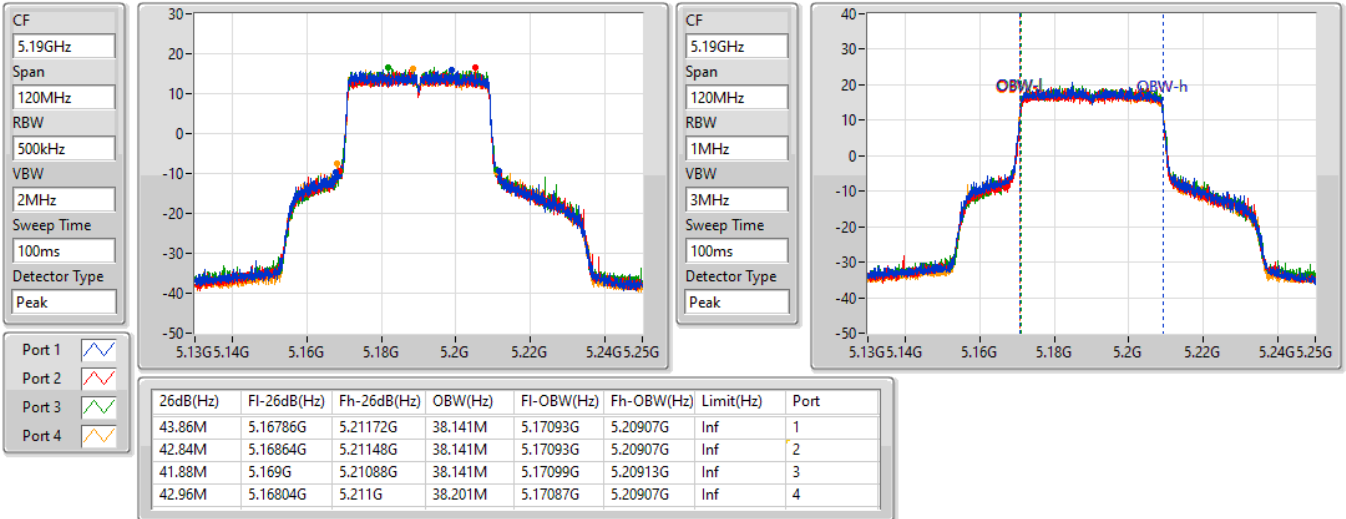

802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5825MHz

31/03/2022

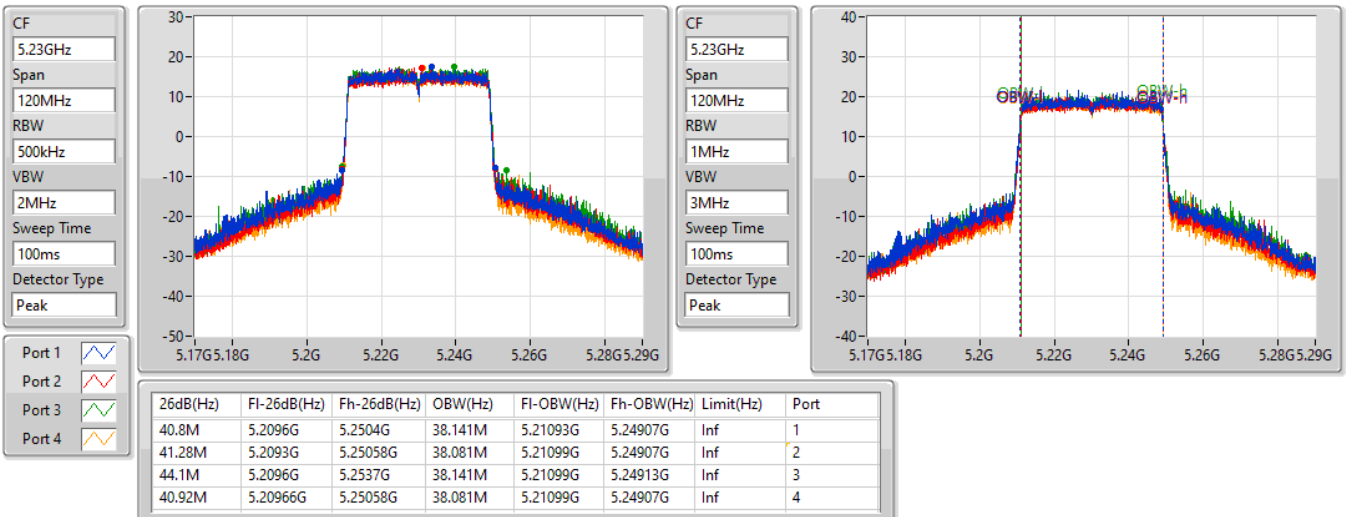


802.11ax HEW40-BF_Nss2,(MCS0)_4TX
EBW
5190MHz

31/03/2022

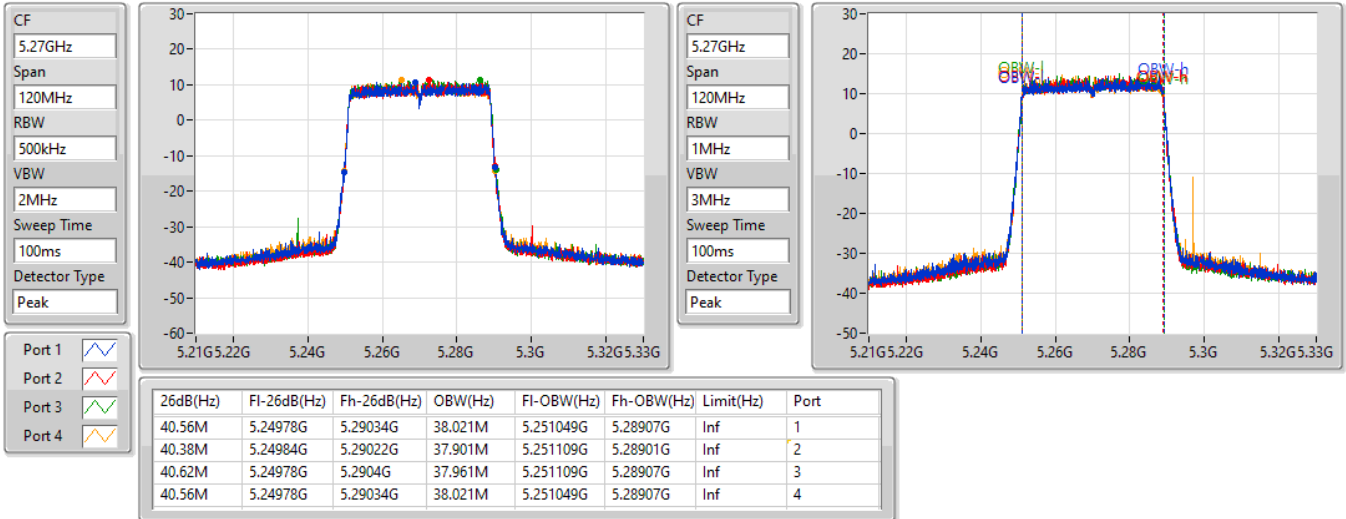

802.11ax HEW40-BF_Nss2,(MCS0)_4TX
EBW
5230MHz

31/03/2022

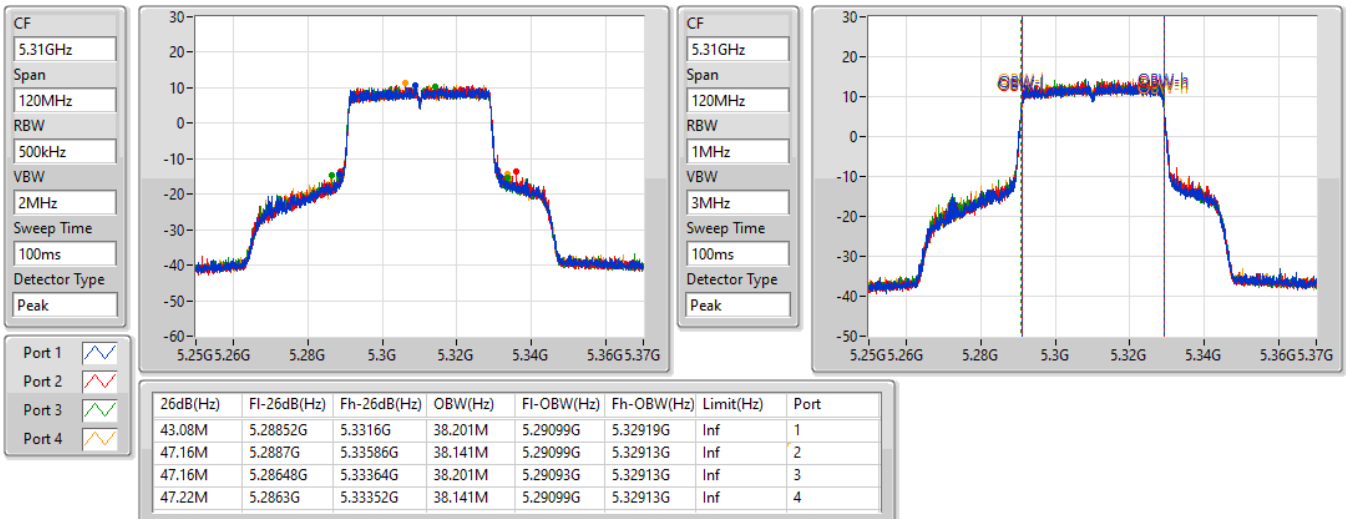


802.11ax HEW40-BF_Nss2,(MCS0)_4TX
EBW
5270MHz

31/03/2022


802.11ax HEW40-BF_Nss2,(MCS0)_4TX
EBW
5310MHz

31/03/2022

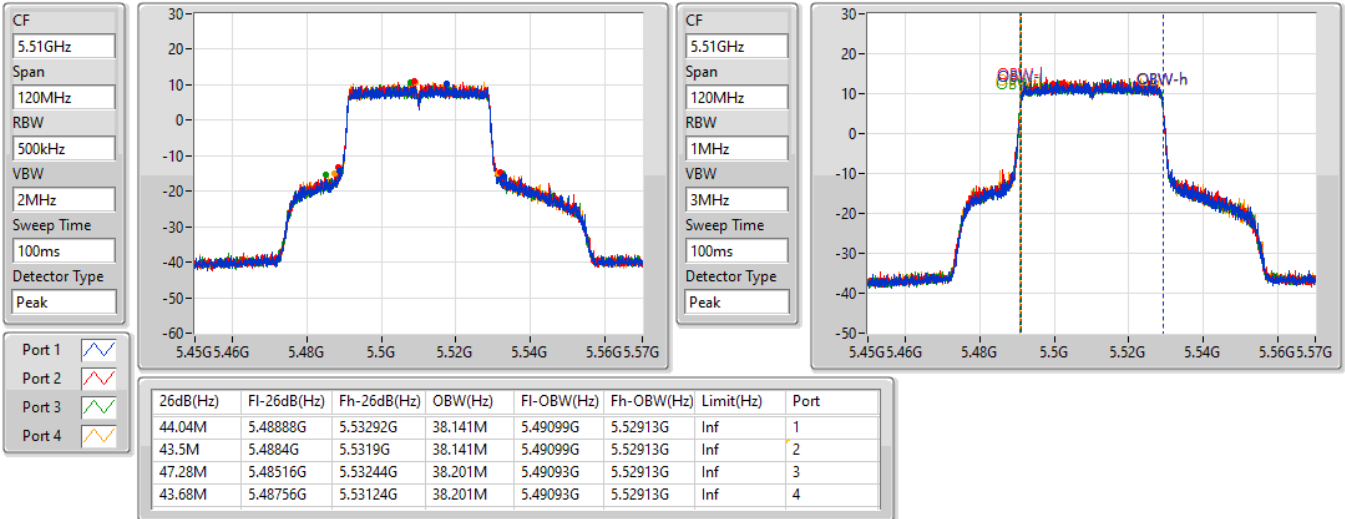


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

5510MHz

31/03/2022

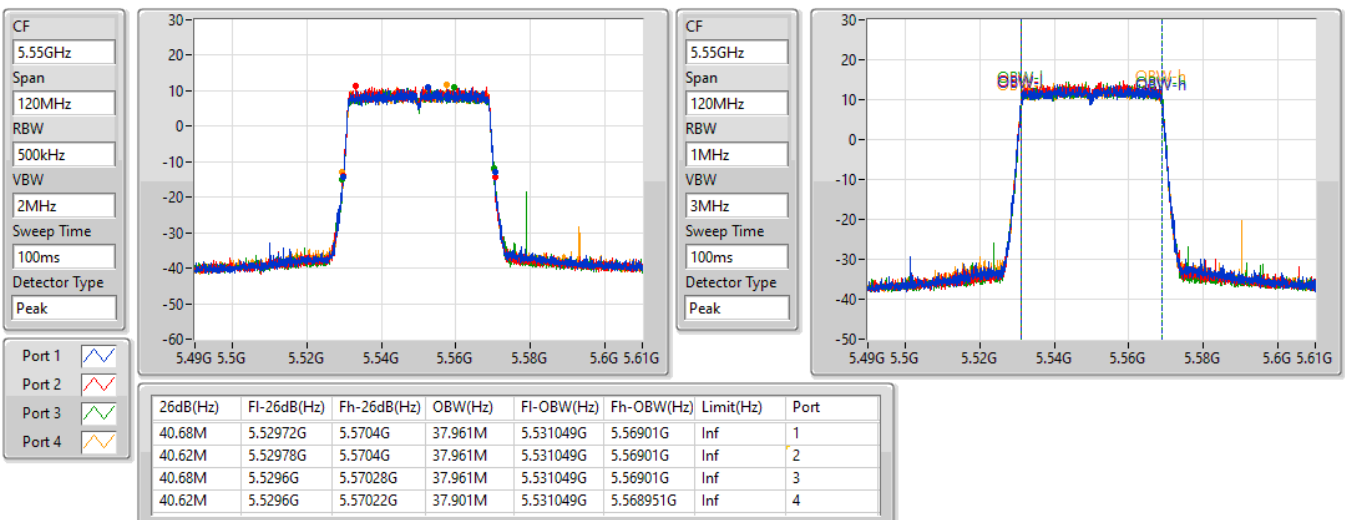


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

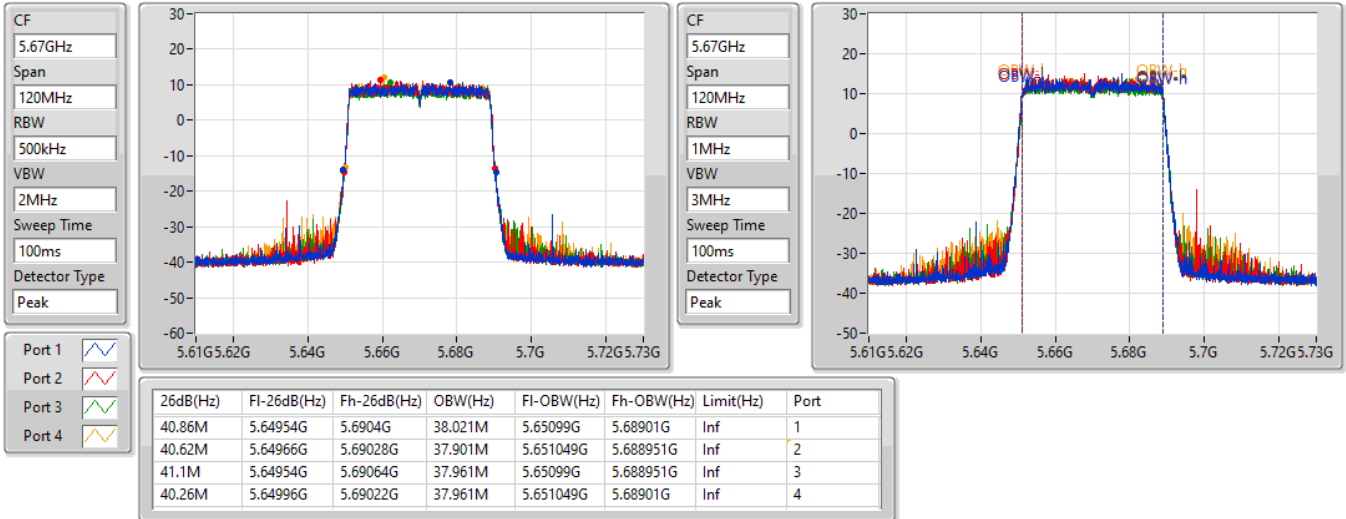
5550MHz

31/03/2022

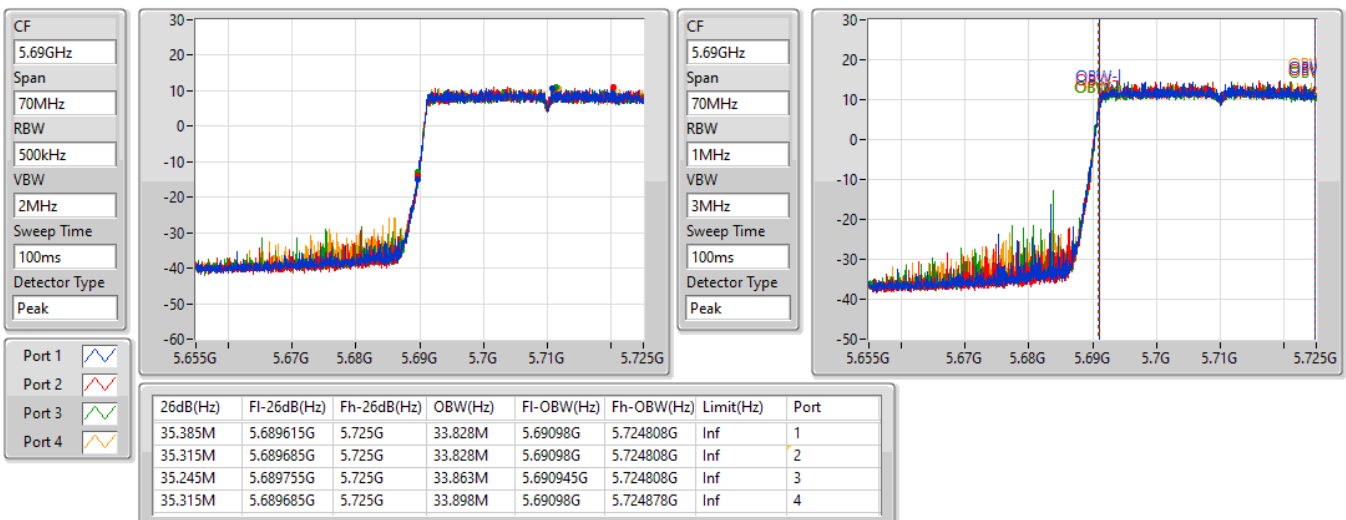


802.11ax HEW40-BF_Nss2,(MCS0)_4TX
EBW
5670MHz

31/03/2022


802.11ax HEW40-BF_Nss2,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

31/03/2022

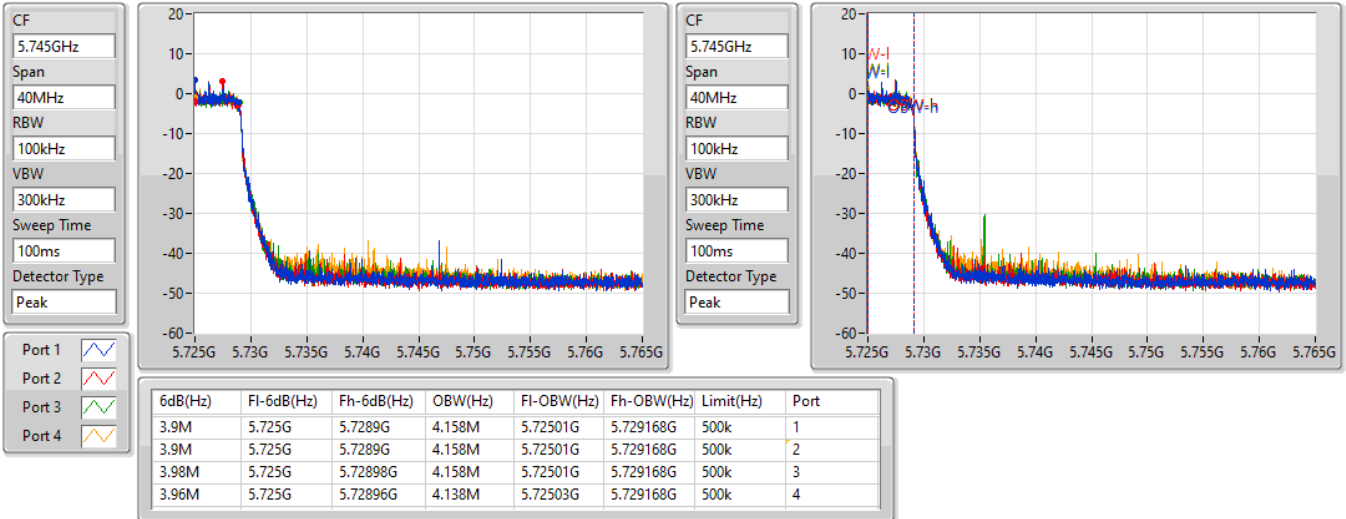


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

31/03/2022

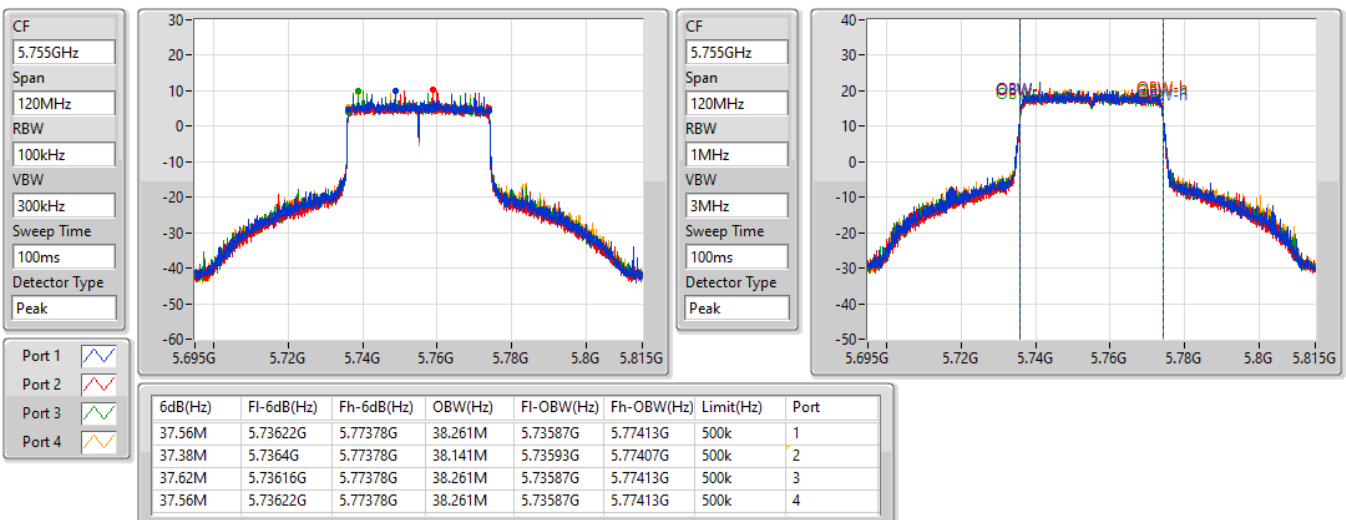


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

5755MHz

31/03/2022

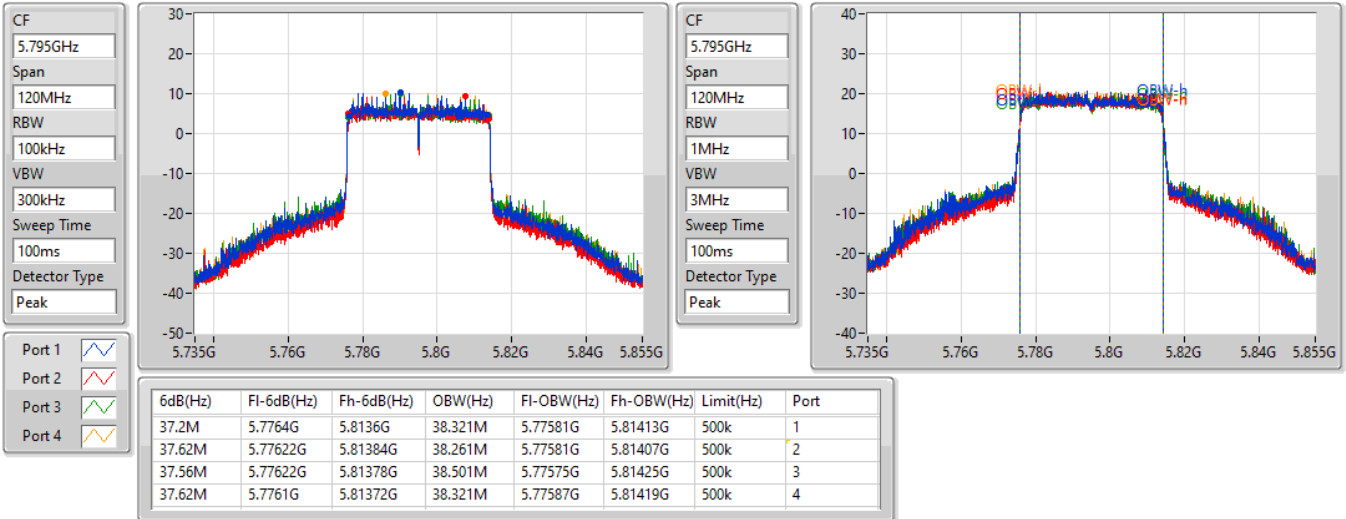


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

5795MHz

31/03/2022

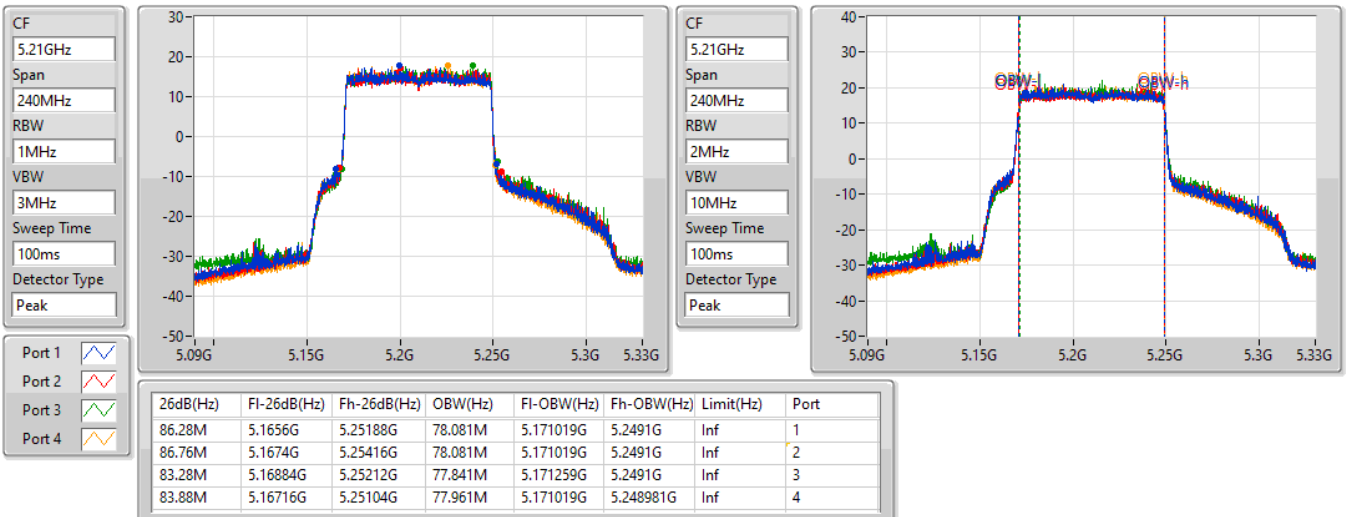


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

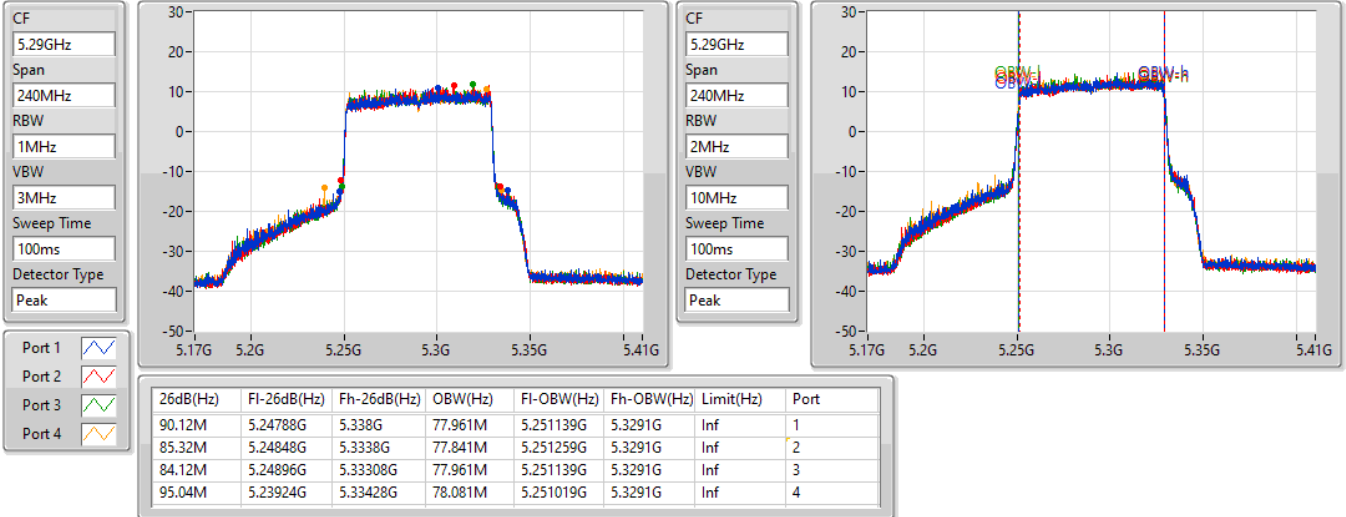
5210MHz

31/03/2022

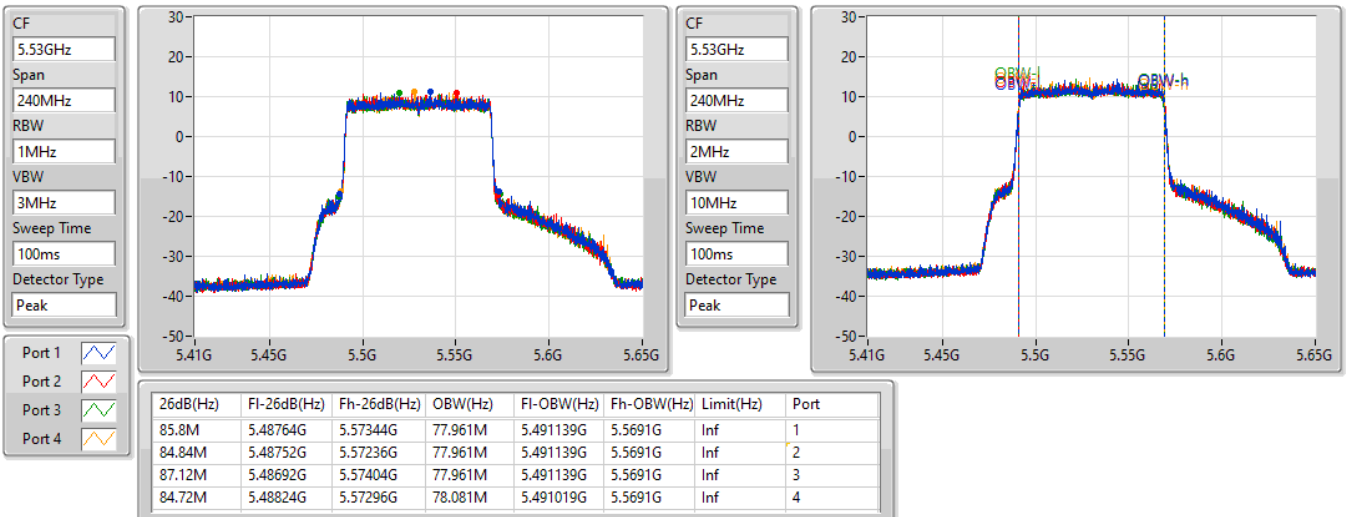


802.11ax HEW80-BF_Nss2,(MCS0)_4TX
EBW
5290MHz

31/03/2022


802.11ax HEW80-BF_Nss2,(MCS0)_4TX
EBW
5530MHz

31/03/2022

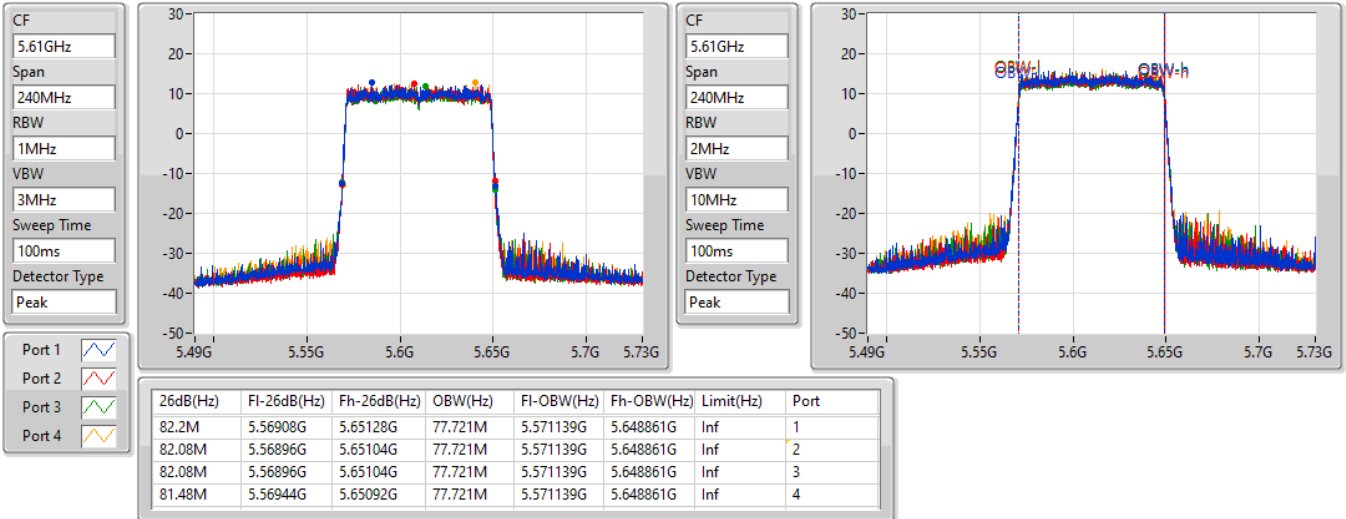


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

5610MHz

31/03/2022

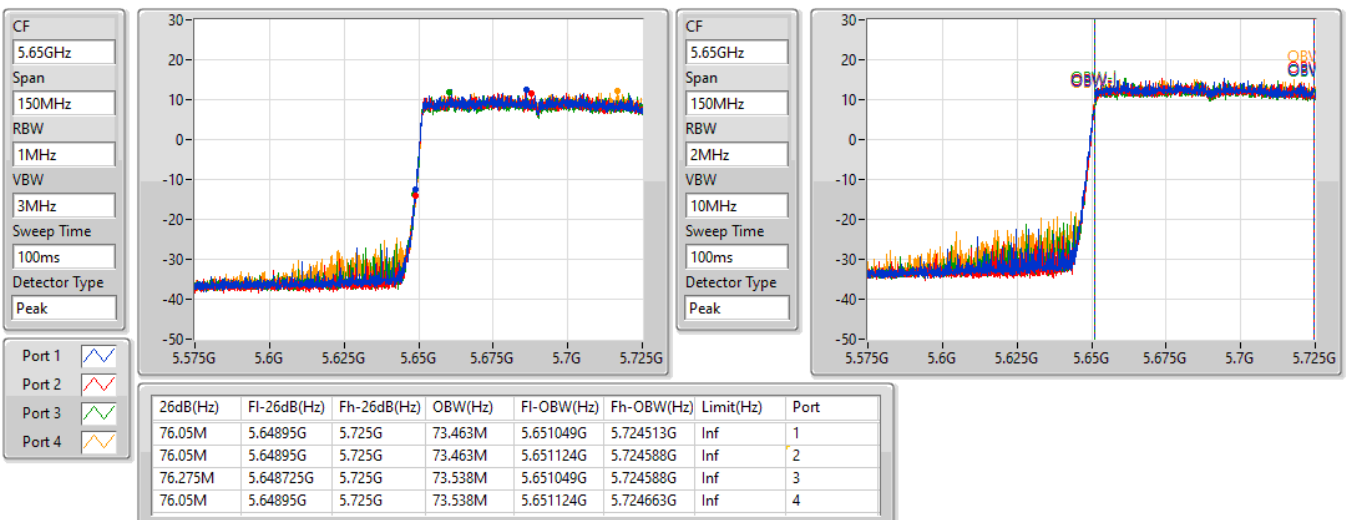


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

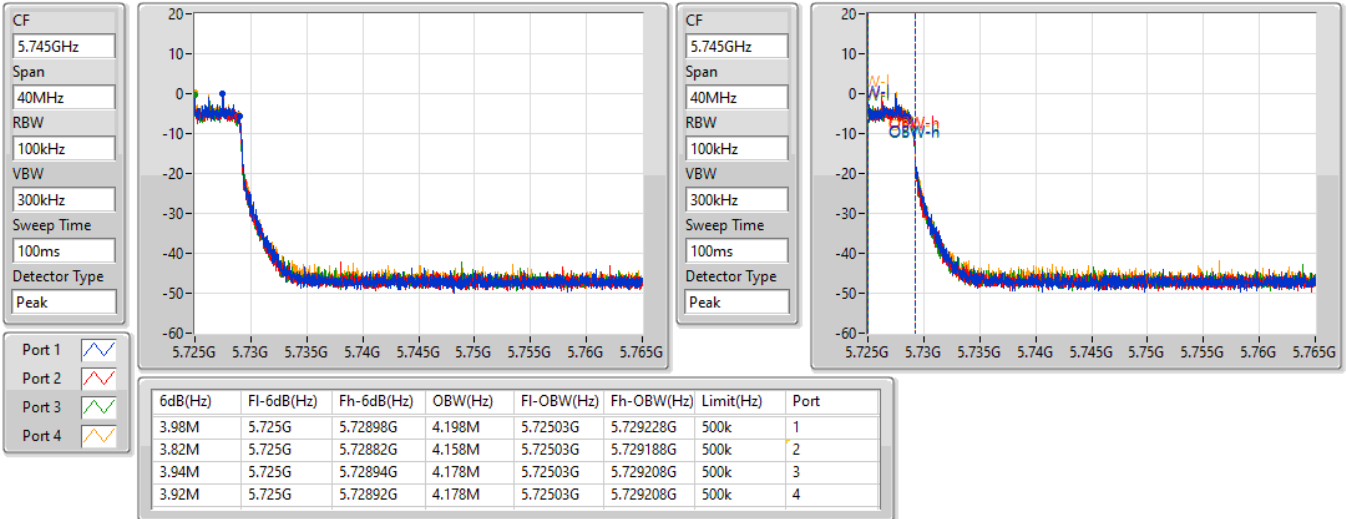
5690MHz Straddle 5.47-5.725GHz

31/03/2022

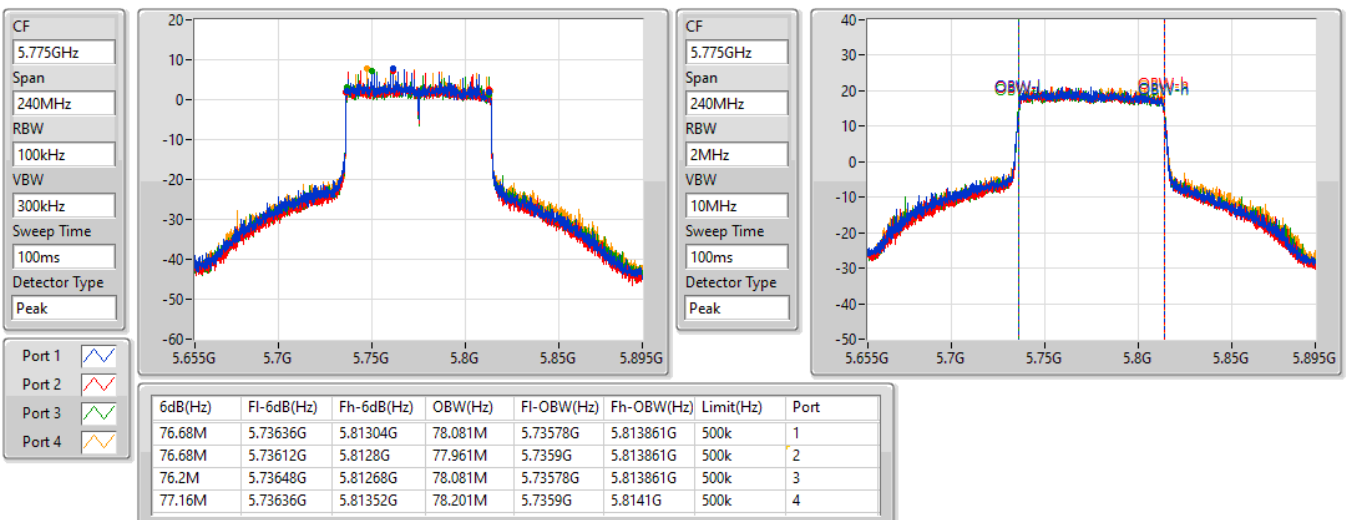


802.11ax HEW80-BF_Nss2,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

31/03/2022


802.11ax HEW80-BF_Nss2,(MCS0)_4TX
EBW
5775MHz

31/03/2022

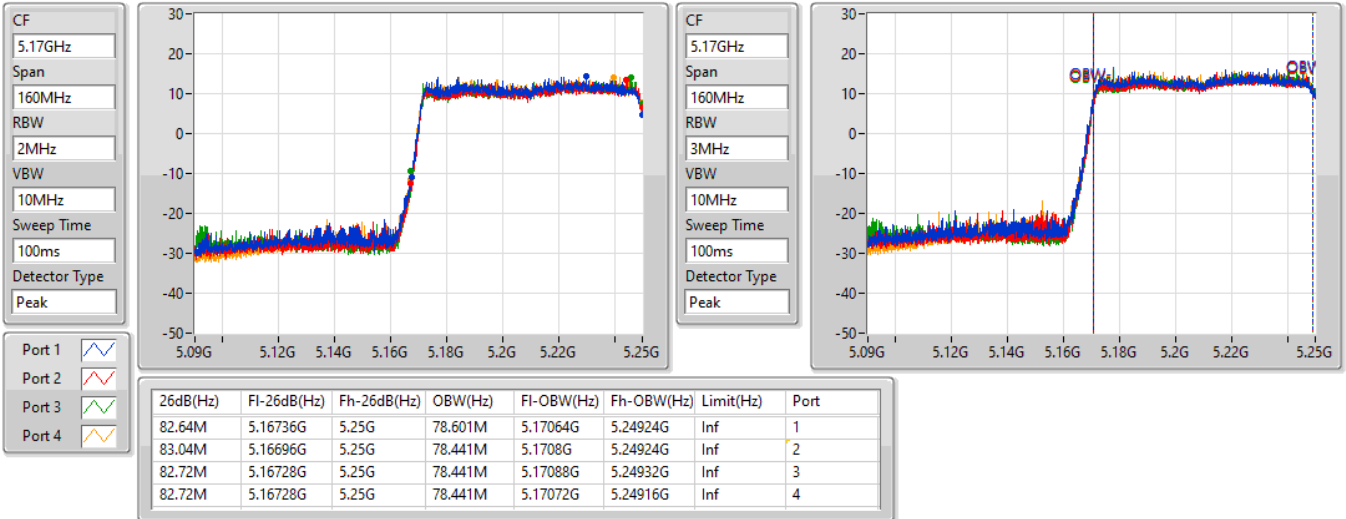


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

31/03/2022

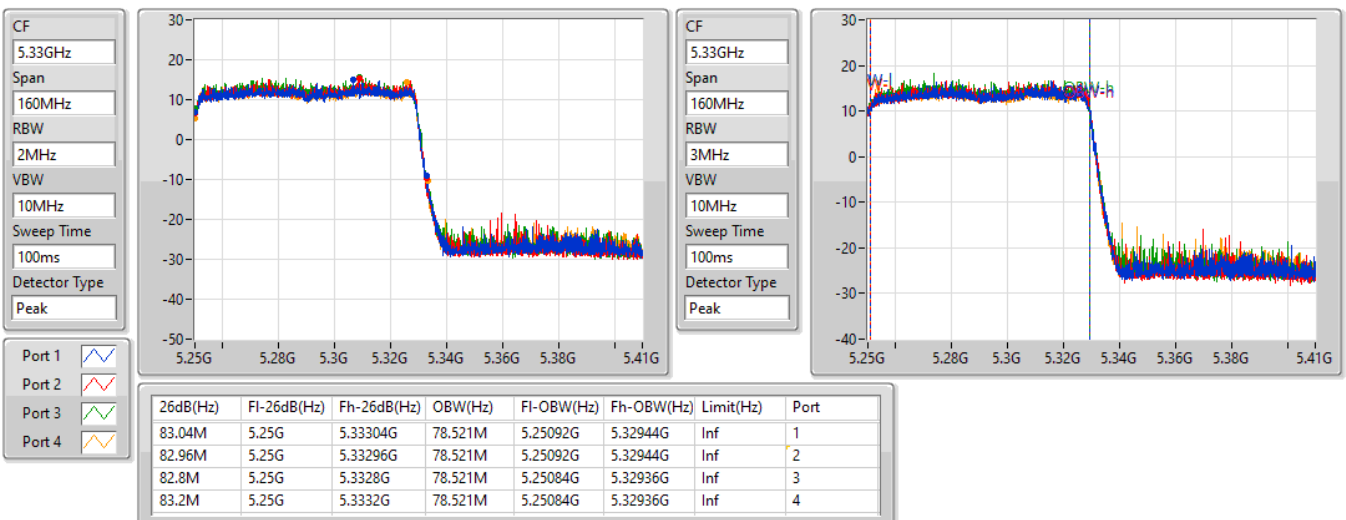


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

31/03/2022

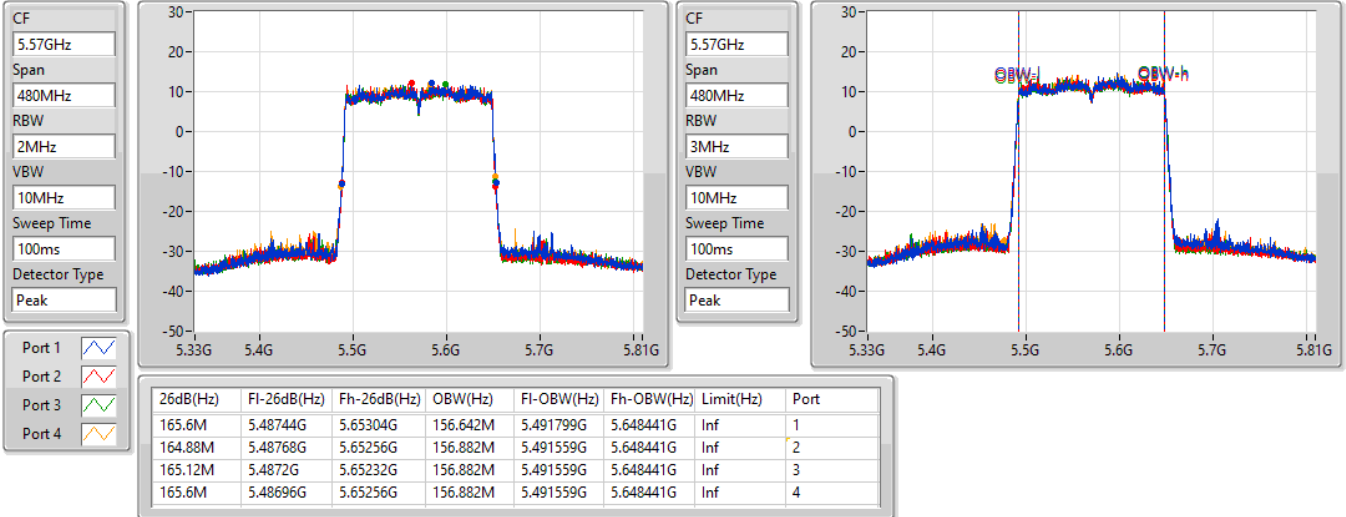


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

EBW

5570MHz

31/03/2022



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	28.90	0.77625
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.40	0.21878
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.42	0.21979
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.98	0.99541

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	-	-	-	-	-	-	-	-
5180MHz	Pass	2.34	22.45	22.73	23.09	22.66	28.76	30.00
5200MHz	Pass	2.34	22.73	22.68	23.27	22.83	28.90	30.00
5240MHz	Pass	2.34	22.67	22.87	23.37	22.56	28.90	30.00
5260MHz	Pass	2.02	17.02	17.21	17.46	17.39	23.29	23.98
5300MHz	Pass	2.02	17.25	17.22	17.37	17.15	23.27	23.98
5320MHz	Pass	2.02	17.43	17.44	17.38	17.25	23.40	23.98
5500MHz	Pass	2.93	17.47	17.25	17.31	17.41	23.38	23.98
5580MHz	Pass	2.93	17.31	17.19	17.52	17.30	23.35	23.98
5700MHz	Pass	2.93	17.38	17.50	17.28	17.44	23.42	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	2.93	16.45	16.62	16.30	16.60	22.52	22.93
5720MHz Straddle 5.725-5.85GHz	Pass	2.44	10.30	10.40	10.01	10.48	16.32	30.00
5745MHz	Pass	2.44	24.15	23.82	23.82	24.04	29.98	30.00
5785MHz	Pass	2.44	23.78	23.92	23.72	24.12	29.91	30.00
5825MHz	Pass	2.44	23.82	24.09	23.63	24.27	29.98	30.00

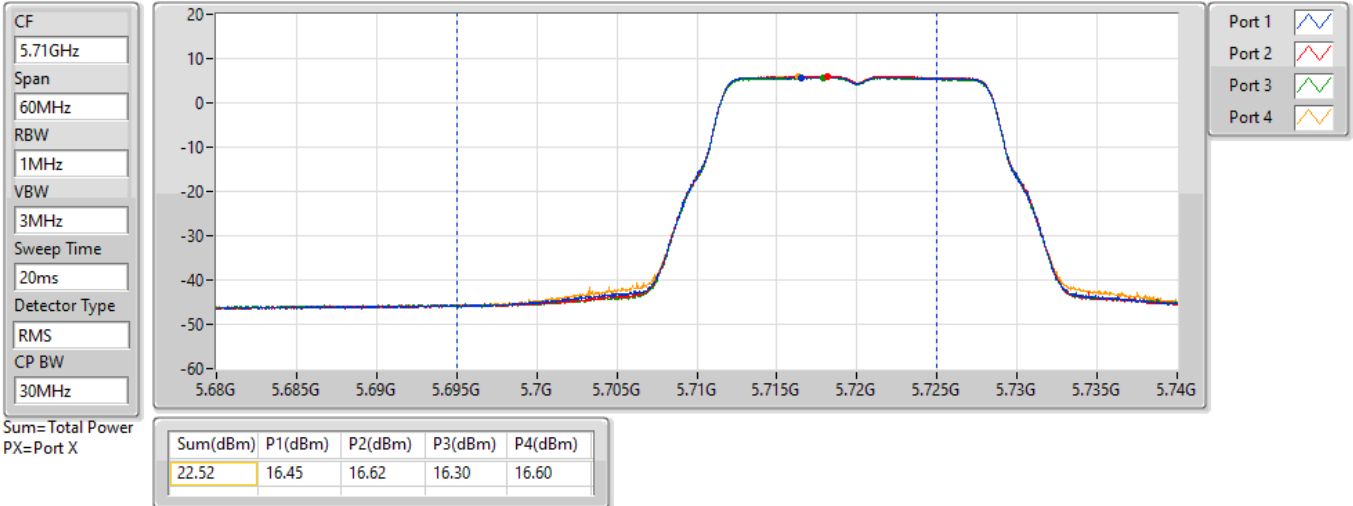
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

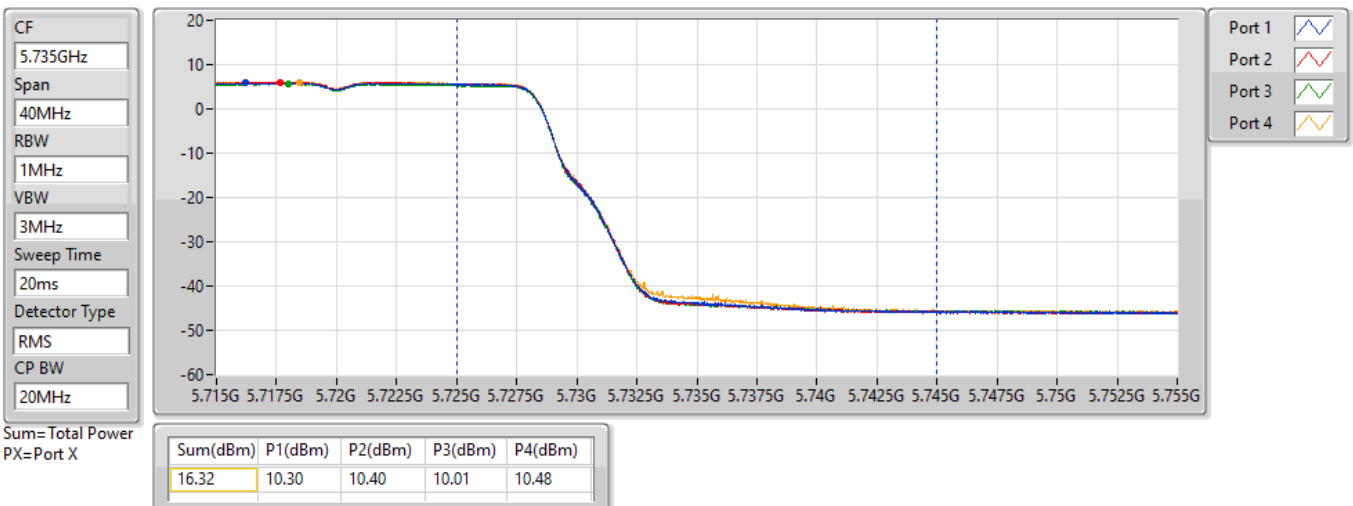


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.01	0.79616
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.97	0.78886
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	29.00	0.79433
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	22.33	0.17100
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.36	0.21677
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.33	0.21528
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.26	0.21184
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.31	0.21429
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.41	0.21928
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.41	0.21928
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.31	0.21429
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.13	0.20559
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.12	0.81658
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.10	0.81283
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	29.04	0.80168

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	6.93	23.02	22.88	23.19	22.84	29.01	29.07
5200MHz	Pass	6.93	23.22	22.72	23.33	22.63	29.01	29.07
5240MHz	Pass	6.93	22.95	22.82	23.55	22.56	29.01	29.07
5260MHz	Pass	6.57	17.26	17.17	17.56	17.00	23.27	23.41
5300MHz	Pass	6.57	17.25	17.30	17.69	17.05	23.35	23.41
5320MHz	Pass	6.57	17.62	17.29	17.41	17.02	23.36	23.41
5500MHz	Pass	6.55	17.32	17.23	17.14	17.36	23.28	23.43
5580MHz	Pass	6.55	17.48	17.53	17.38	17.15	23.41	23.43
5700MHz	Pass	6.55	17.20	17.30	17.22	17.35	23.29	23.43
5720MHz Straddle 5.47-5.725GHz	Pass	6.55	16.46	16.38	16.33	16.41	22.42	22.43
5720MHz Straddle 5.725-5.85GHz	Pass	6.80	11.20	11.14	11.04	11.20	17.17	29.20
5745MHz	Pass	6.80	23.02	22.93	22.84	22.97	28.96	29.20
5785MHz	Pass	6.80	23.15	23.00	23.02	23.24	29.12	29.20
5825MHz	Pass	6.80	22.85	22.76	22.79	23.44	28.99	29.20
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.93	23.06	22.43	23.10	22.82	28.88	29.07
5230MHz	Pass	6.93	23.13	22.60	23.37	22.67	28.97	29.07
5270MHz	Pass	6.57	17.27	17.16	17.68	17.09	23.33	23.41
5310MHz	Pass	6.57	17.25	17.23	17.42	16.97	23.24	23.41
5510MHz	Pass	6.55	17.07	17.34	17.27	17.28	23.26	23.43
5550MHz	Pass	6.55	17.16	17.50	17.69	17.18	23.41	23.43
5670MHz	Pass	6.55	17.49	17.32	17.50	17.22	23.40	23.43
5710MHz Straddle 5.47-5.725GHz	Pass	6.55	17.37	17.41	17.23	17.29	23.35	23.43
5710MHz Straddle 5.725-5.85GHz	Pass	6.80	7.64	7.64	7.49	7.65	13.63	29.20
5755MHz	Pass	6.80	23.13	22.85	23.07	23.16	29.07	29.20
5795MHz	Pass	6.80	23.03	22.99	22.83	23.46	29.10	29.20
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.93	22.94	22.72	23.36	22.89	29.00	29.07
5290MHz	Pass	6.57	17.18	17.12	17.43	17.21	23.26	23.41
5530MHz	Pass	6.55	17.18	17.21	17.29	17.12	23.22	23.43
5610MHz	Pass	6.55	17.53	17.23	17.16	17.21	23.31	23.43
5690MHz Straddle 5.47-5.725GHz	Pass	6.55	17.26	17.20	17.24	17.02	23.20	23.43
5690MHz Straddle 5.725-5.85GHz	Pass	6.80	3.94	3.72	3.75	3.85	9.84	29.20
5775MHz	Pass	6.80	23.25	22.83	22.99	23.01	29.04	29.20
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.93	16.43	16.09	16.18	16.54	22.33	29.07
5250MHz Straddle 5.25-5.35GHz	Pass	6.57	16.89	17.47	17.82	16.89	23.31	23.41
5570MHz	Pass	6.55	17.05	17.03	17.23	17.12	23.13	23.43

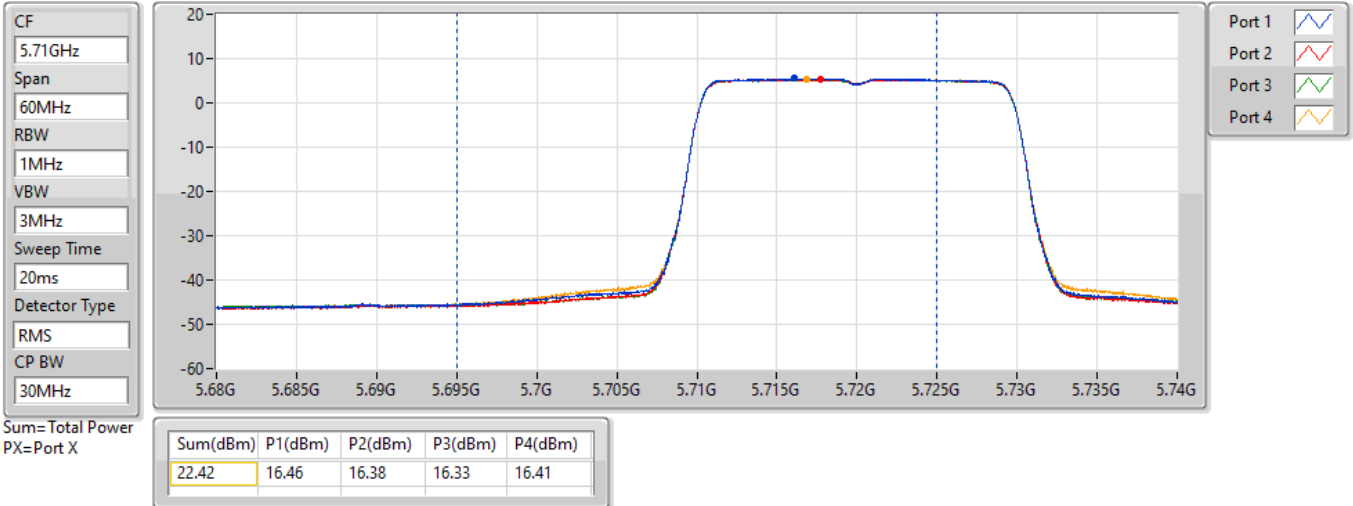
DG = Directional Gain; Port X = Port X output power

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

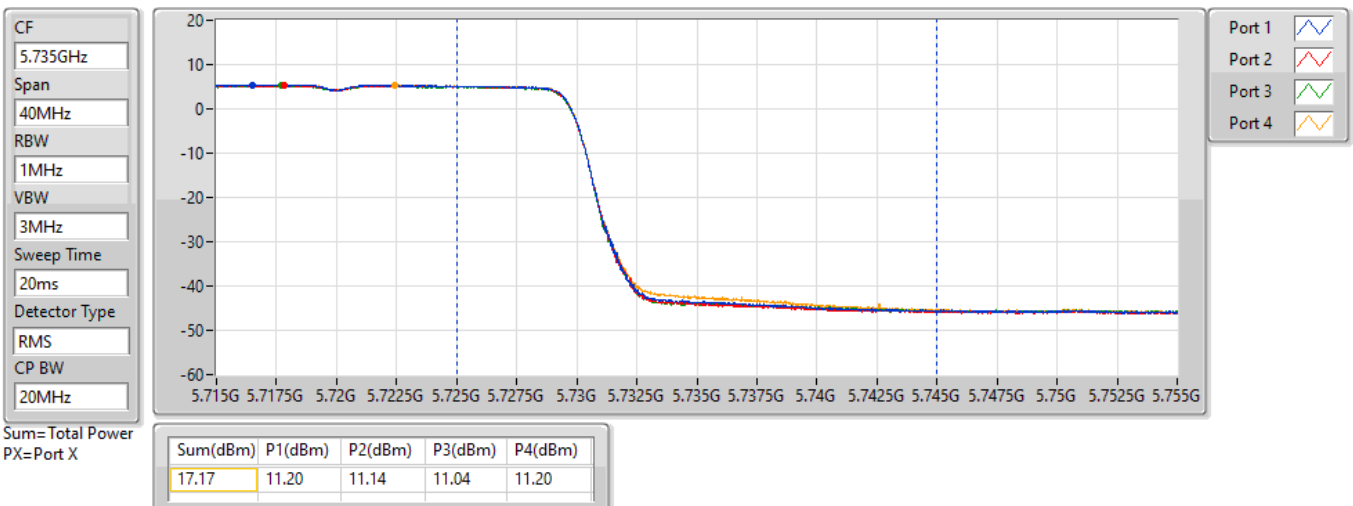


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022

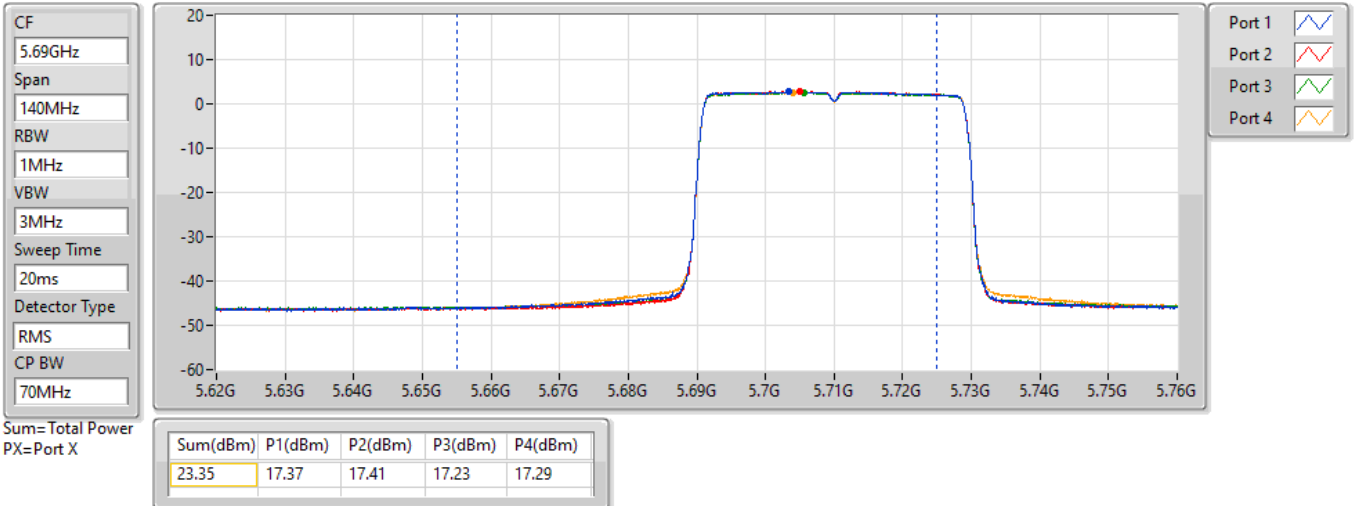


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

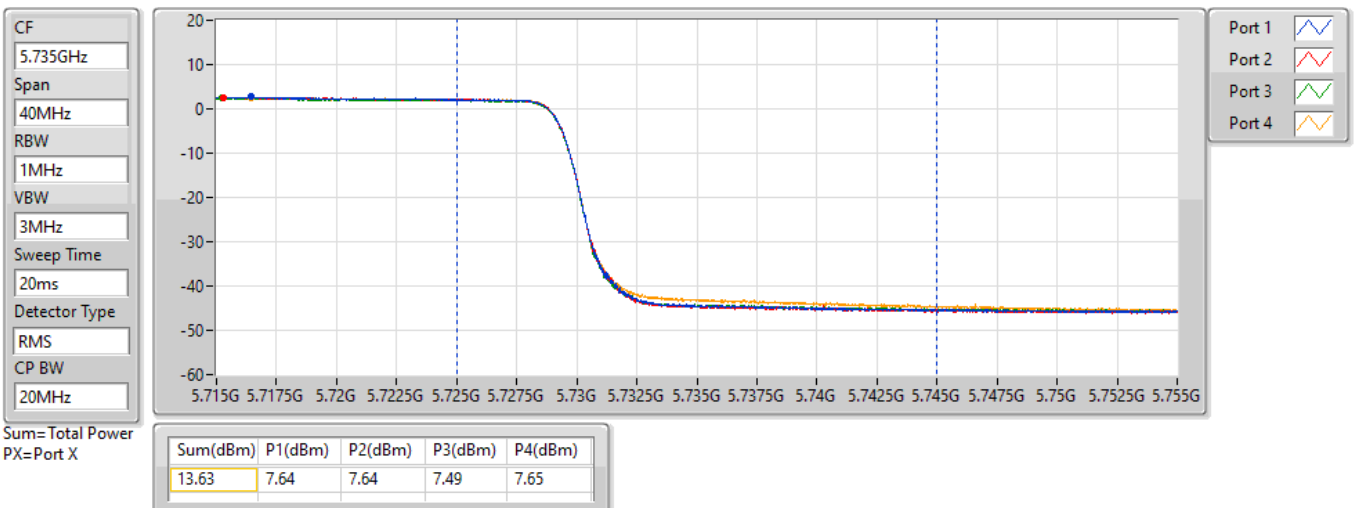


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022

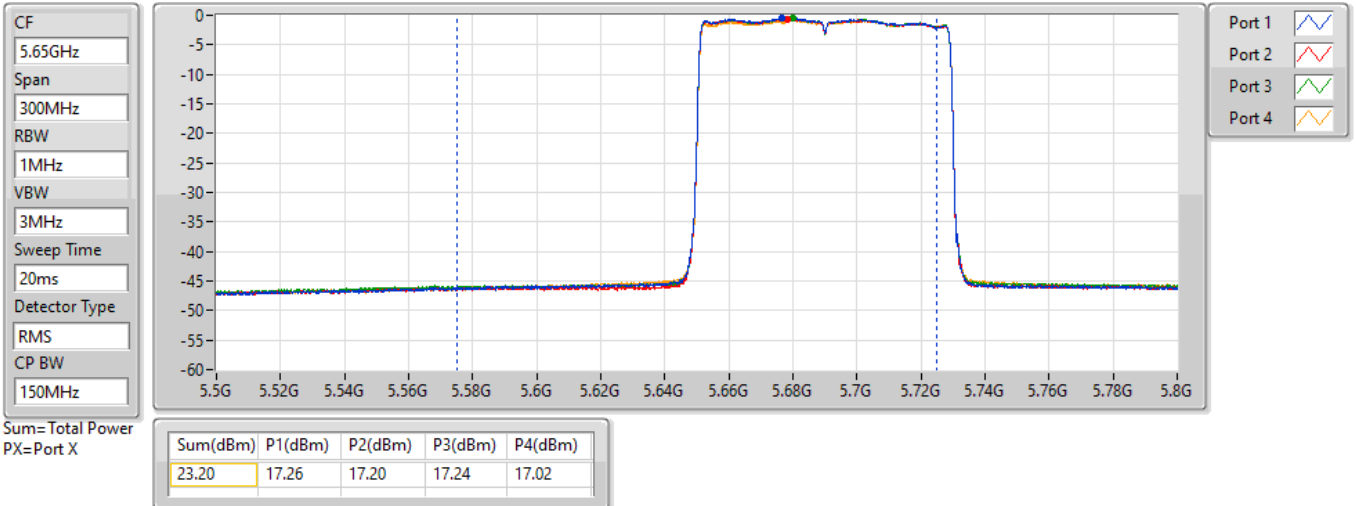


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

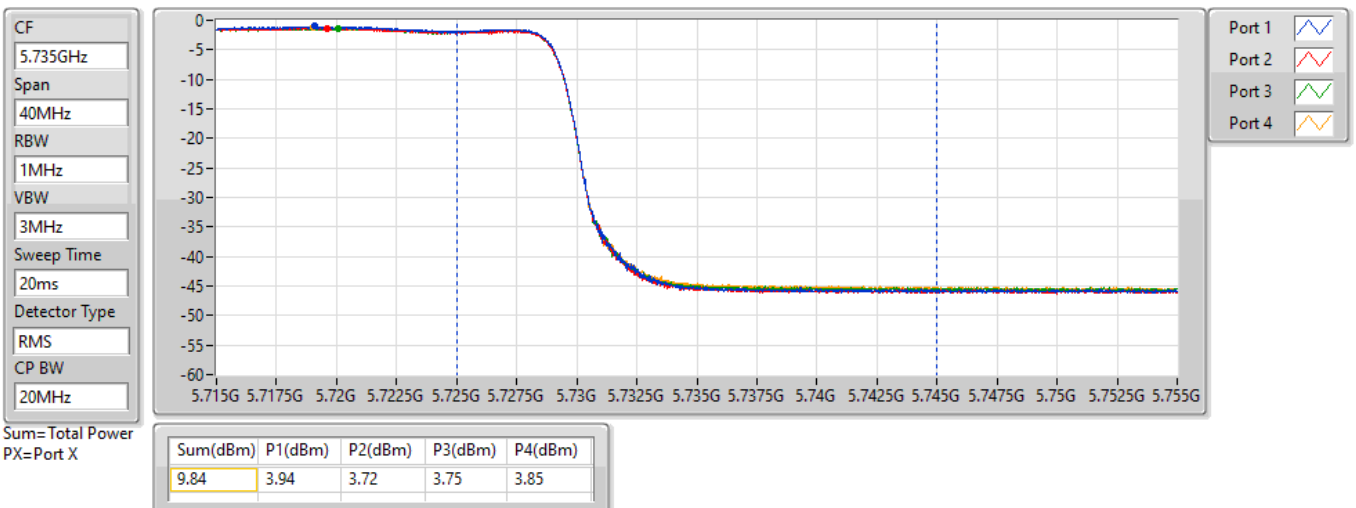


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022



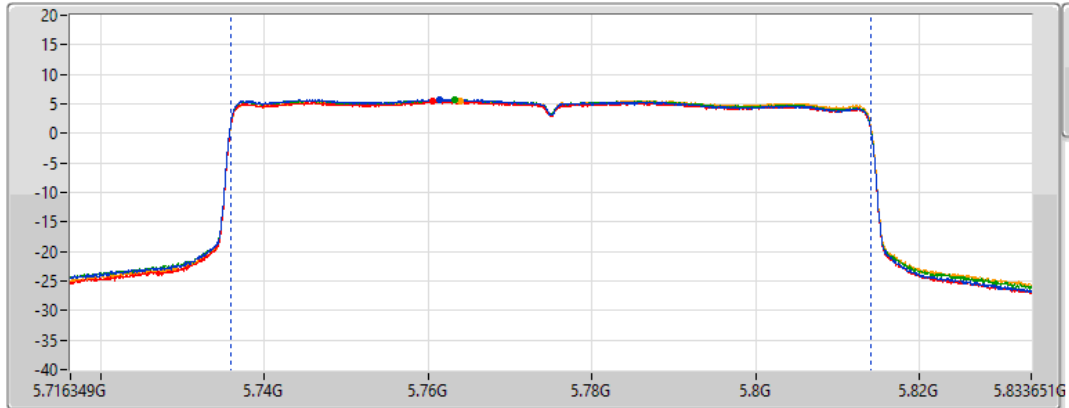
802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5775MHz_TnomVnom

31/03/2022

CF
5.775GHz
Span
117.3015MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
78.201MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
29.56	23.61	23.30	23.62	23.60

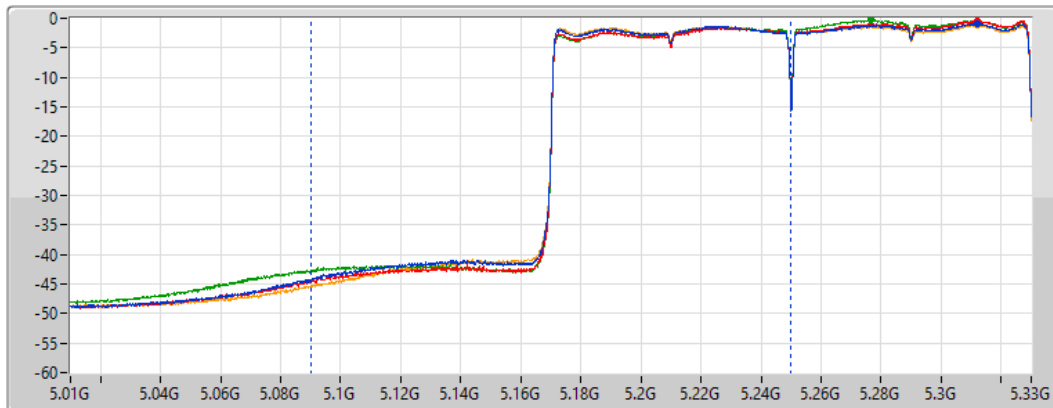
802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

31/03/2022

CF
5.17GHz
Span
320MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
160MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

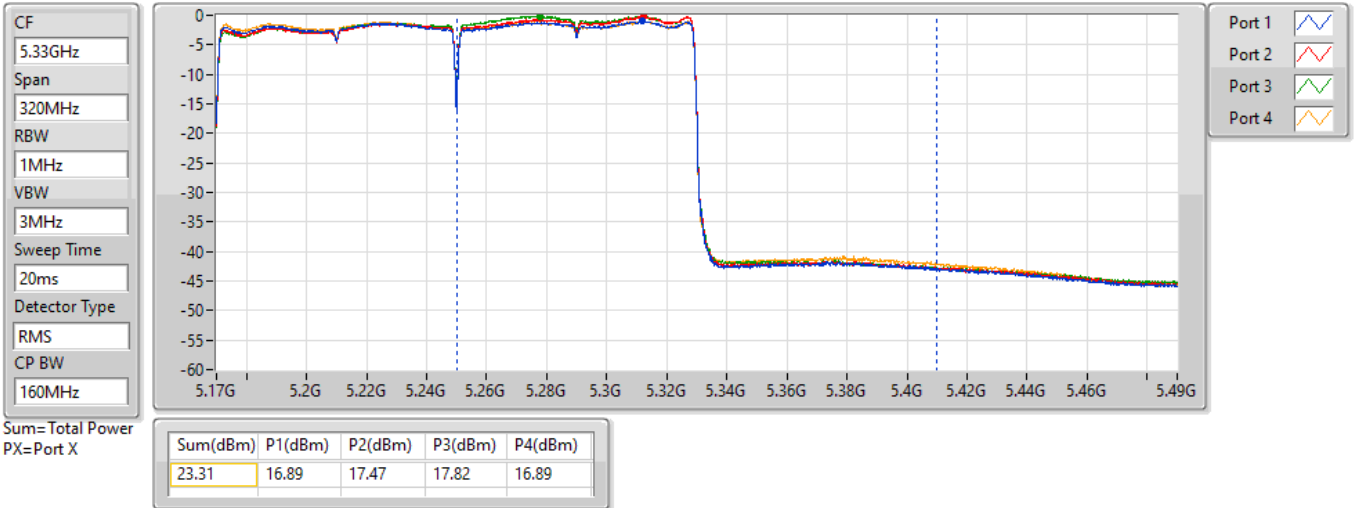
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.33	16.43	16.09	16.18	16.54

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

31/03/2022



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	29.87	0.97051
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	29.90	0.97724
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	29.84	0.96383
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	22.85	0.19275
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	23.84	0.24210
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	23.90	0.24547
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	23.77	0.23823
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	23.82	0.24099
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	23.89	0.24491
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	23.91	0.24604
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	23.96	0.24889
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	23.93	0.24717
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	29.94	0.98628
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	29.98	0.99541
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	29.98	0.99541

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_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.93	23.69	23.36	23.88	23.39	29.61	30.00
5200MHz	Pass	3.93	23.97	23.60	24.22	23.58	29.87	30.00
5240MHz	Pass	3.93	23.79	23.53	24.36	23.30	29.78	30.00
5260MHz	Pass	3.57	17.73	17.71	18.01	17.64	23.80	23.98
5300MHz	Pass	3.57	17.83	17.76	17.83	17.67	23.79	23.98
5320MHz	Pass	3.57	17.84	17.85	17.94	17.63	23.84	23.98
5500MHz	Pass	3.55	17.99	17.59	17.89	17.99	23.89	23.98
5580MHz	Pass	3.55	17.75	17.90	17.64	17.66	23.76	23.98
5700MHz	Pass	3.55	17.68	17.85	17.46	18.02	23.78	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.55	16.68	16.84	16.47	16.87	22.74	22.96
5720MHz Straddle 5.725-5.85GHz	Pass	3.80	11.49	11.54	11.24	11.64	17.50	30.00
5745MHz	Pass	3.80	23.83	23.72	23.67	24.13	29.86	30.00
5785MHz	Pass	3.80	23.88	23.74	23.60	24.15	29.87	30.00
5825MHz	Pass	3.80	23.77	23.81	23.66	24.40	29.94	30.00
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.93	23.15	22.67	23.32	22.76	29.00	30.00
5230MHz	Pass	3.93	24.08	23.49	24.34	23.55	29.90	30.00
5270MHz	Pass	3.57	17.80	17.79	18.20	17.73	23.90	23.98
5310MHz	Pass	3.57	17.44	17.93	17.99	17.61	23.77	23.98
5510MHz	Pass	3.55	17.68	18.17	17.89	17.66	23.88	23.98
5550MHz	Pass	3.55	17.77	18.16	17.82	17.78	23.91	23.98
5670MHz	Pass	3.55	17.95	18.16	17.49	17.86	23.89	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	3.55	17.92	17.92	17.76	17.95	23.91	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.80	8.20	8.12	7.97	8.27	14.16	30.00
5755MHz	Pass	3.80	24.11	23.95	23.69	24.07	29.98	30.00
5795MHz	Pass	3.80	24.11	23.80	23.59	24.10	29.93	30.00
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.93	24.02	23.62	23.99	23.65	29.84	30.00
5290MHz	Pass	3.57	17.71	17.86	17.84	17.57	23.77	23.98
5530MHz	Pass	3.55	17.80	17.77	17.67	18.00	23.83	23.98
5610MHz	Pass	3.55	18.13	17.97	17.62	18.04	23.96	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	3.55	18.03	17.80	17.52	18.15	23.90	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.80	4.59	4.39	4.16	4.92	10.54	30.00
5775MHz	Pass	3.80	24.13	23.69	23.76	24.24	29.98	30.00
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.93	17.01	16.52	16.67	17.10	22.85	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	3.57	17.61	17.80	18.33	17.39	23.82	23.98
5570MHz	Pass	3.55	18.16	17.84	17.70	17.93	23.93	23.98

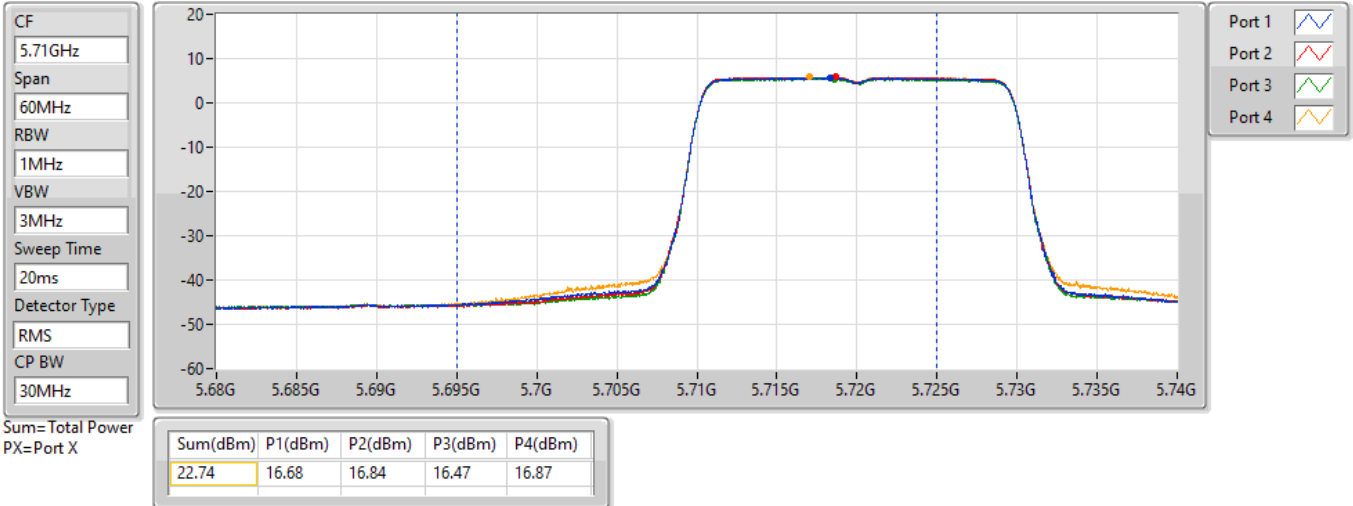
DG = Directional Gain; Port X = Port X output power

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

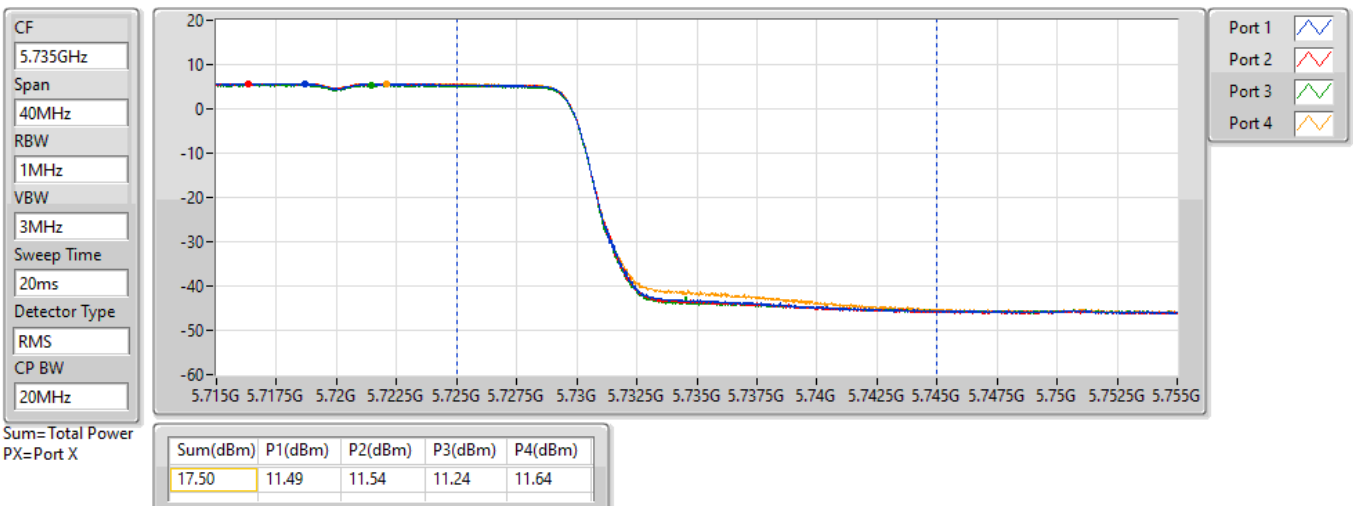


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022



802.11ax HEW40-BF_Nss2,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

CF
5.69GHz

Span
140MHz

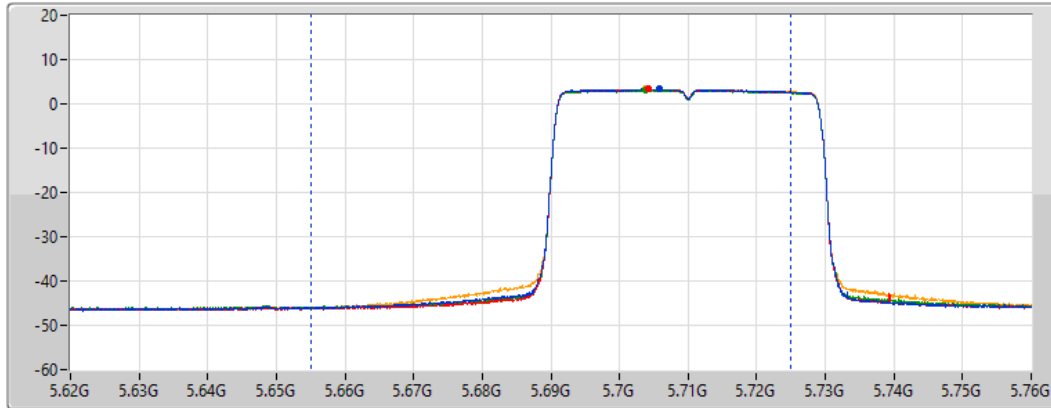
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
70MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.91	17.92	17.92	17.76	17.95

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022

CF
5.735GHz

Span
40MHz

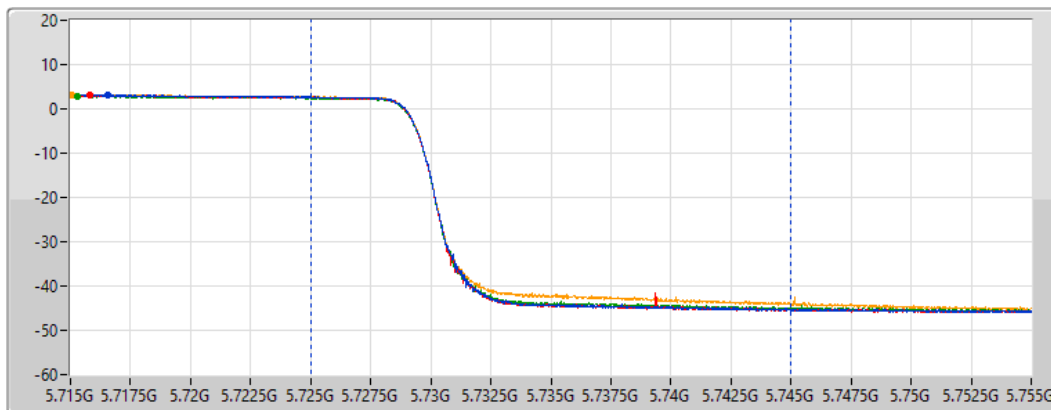
RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS

CP BW
20MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
14.16	8.20	8.12	7.97	8.27

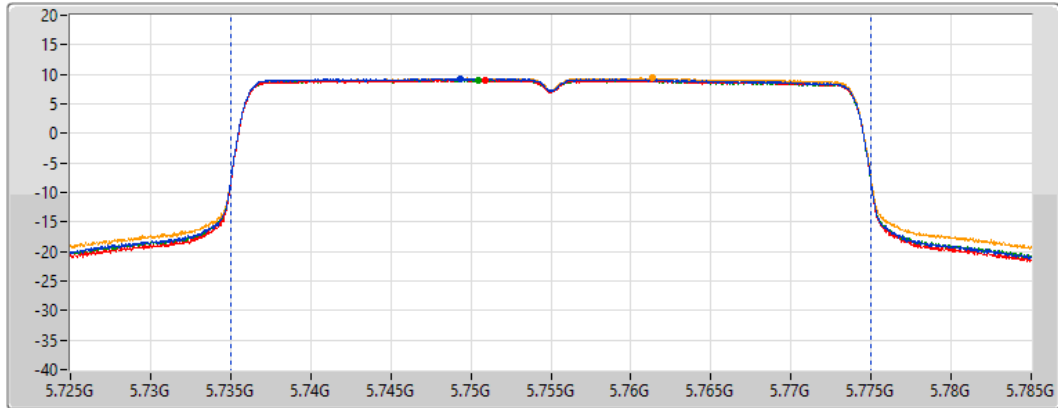
802.11ax HEW40-BF_Nss2,(MCS0)_4TX

AV Power

5755MHz_TnomVnom

31/03/2022

CF
5.755GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
40MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
30.32	24.38	24.16	24.15	24.48

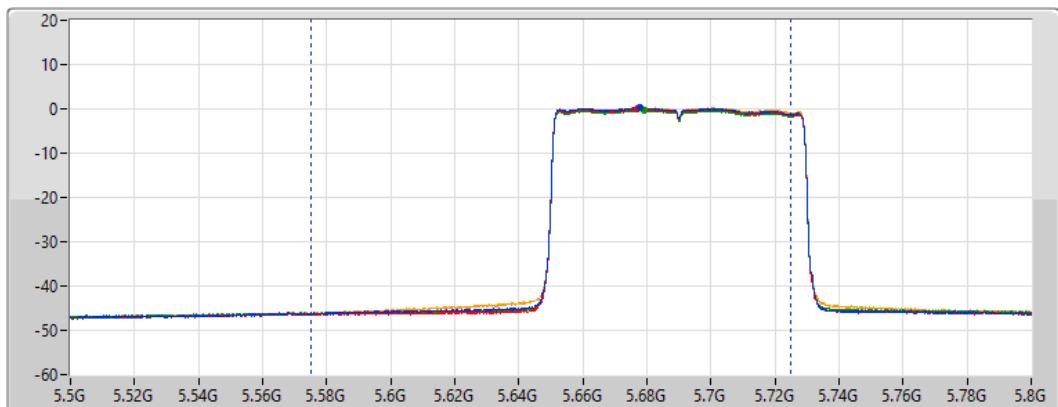
802.11ax HEW80-BF_Nss2,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

31/03/2022

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
150MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

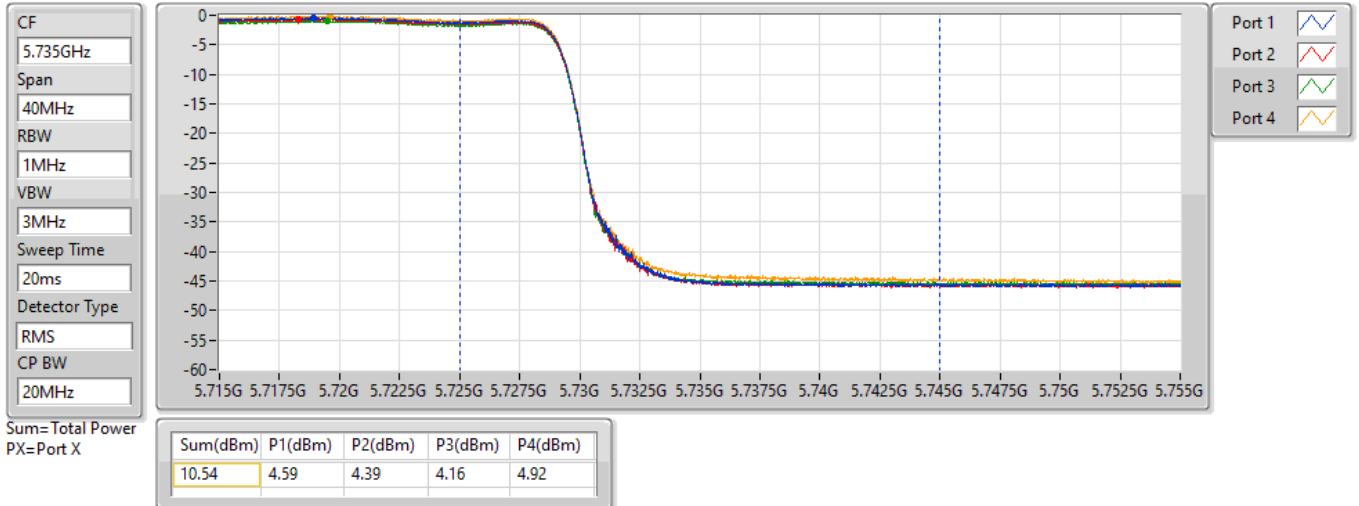
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.90	18.03	17.80	17.52	18.15

802.11ax HEW80-BF_Nss2,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

31/03/2022

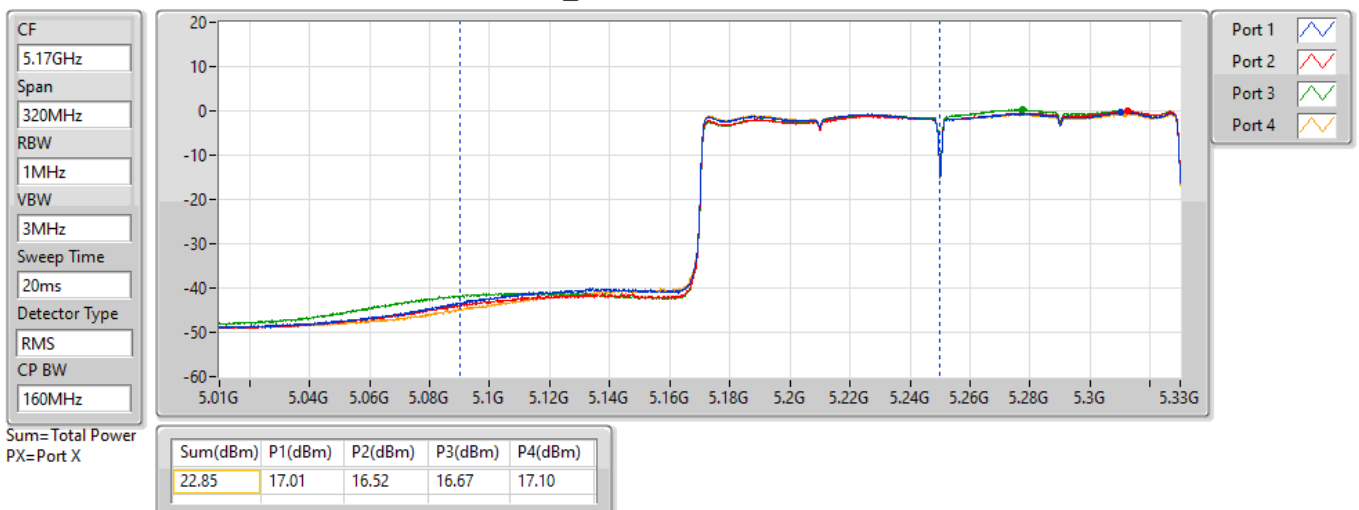


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz_TnomVnom

31/03/2022



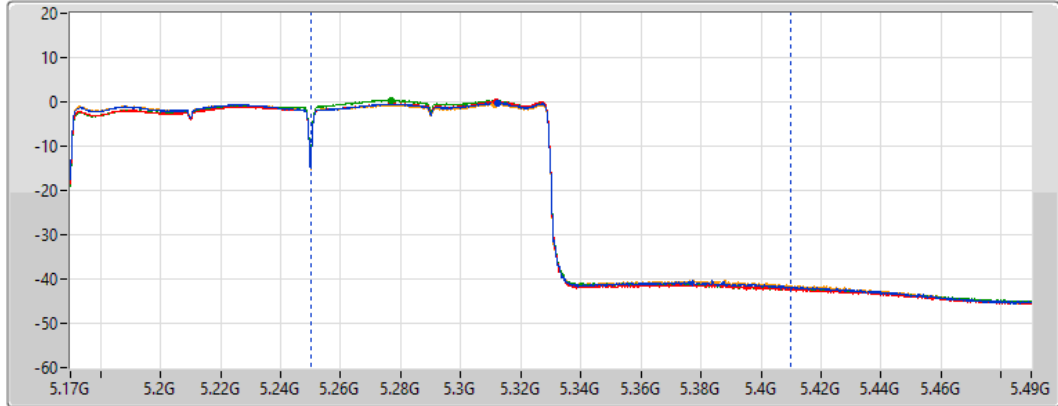
802.11ax HEW160-BF_Nss2,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom

31/03/2022

CF
5.33GHz
Span
320MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
160MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.82	17.61	17.80	18.33	17.39

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.94
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.33
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.32
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.61

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	-	-	-	-	-	-	-	-
5180MHz	Pass	6.93	9.70	9.78	10.08	9.91	15.86	16.07
5200MHz	Pass	6.93	9.74	9.76	10.44	10.01	15.94	16.07
5240MHz	Pass	6.93	9.80	9.87	10.45	9.71	15.87	16.07
5260MHz	Pass	6.57	3.97	4.11	4.44	4.39	10.20	10.43
5300MHz	Pass	6.57	4.21	4.19	4.46	4.21	10.23	10.43
5320MHz	Pass	6.57	4.31	4.50	4.39	4.43	10.33	10.43
5500MHz	Pass	6.55	4.26	4.25	4.34	4.42	10.27	10.45
5580MHz	Pass	6.55	4.44	4.19	4.23	4.22	10.23	10.45
5700MHz	Pass	6.55	4.28	4.50	4.18	4.44	10.32	10.45
5720MHz Straddle 5.47-5.725GHz	Pass	6.55	4.25	4.55	4.25	4.52	10.32	10.45
5720MHz Straddle 5.725-5.85GHz	Pass	6.80	2.62	2.82	2.38	2.75	8.60	29.20
5745MHz	Pass	6.80	9.65	9.50	9.61	9.74	15.56	29.20
5785MHz	Pass	6.80	9.52	9.66	9.48	9.80	15.54	29.20
5825MHz	Pass	6.80	9.57	9.79	9.36	10.01	15.61	29.20

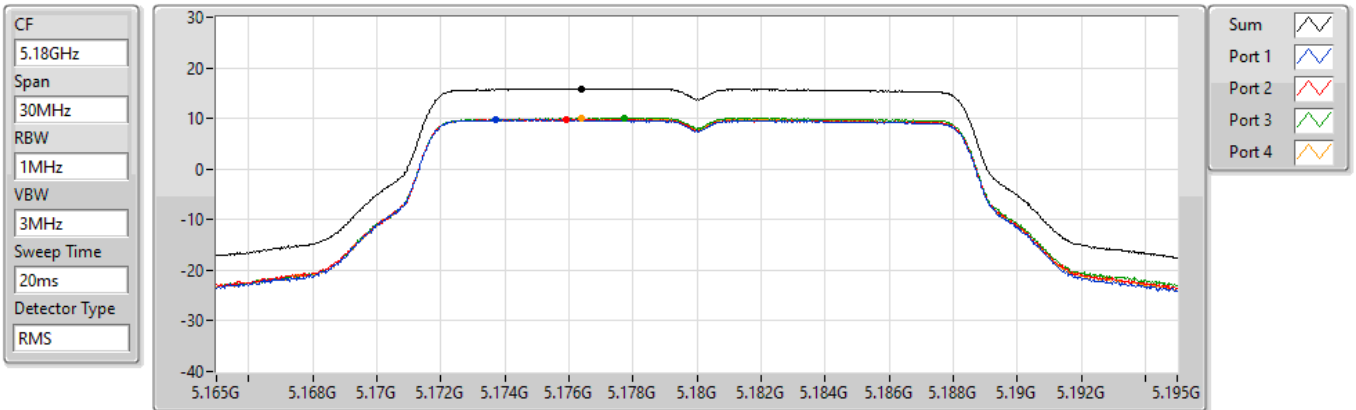
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

31/03/2022

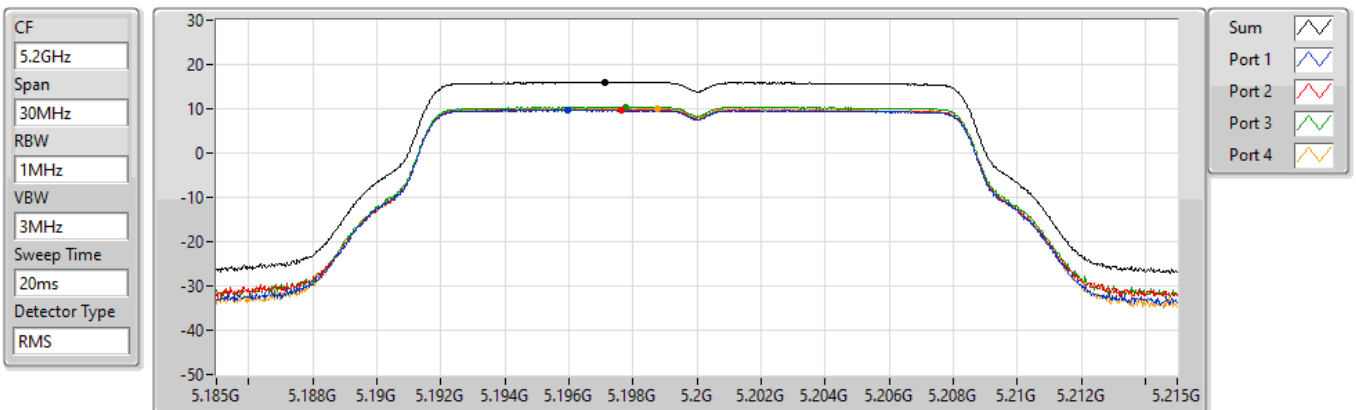


802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

31/03/2022

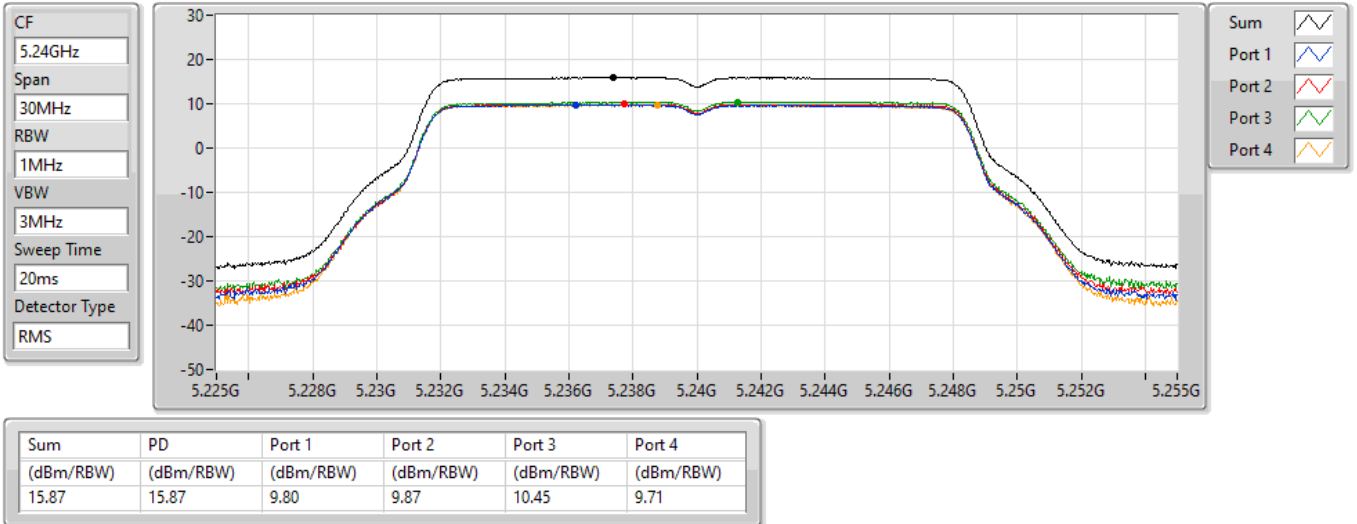


802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

31/03/2022

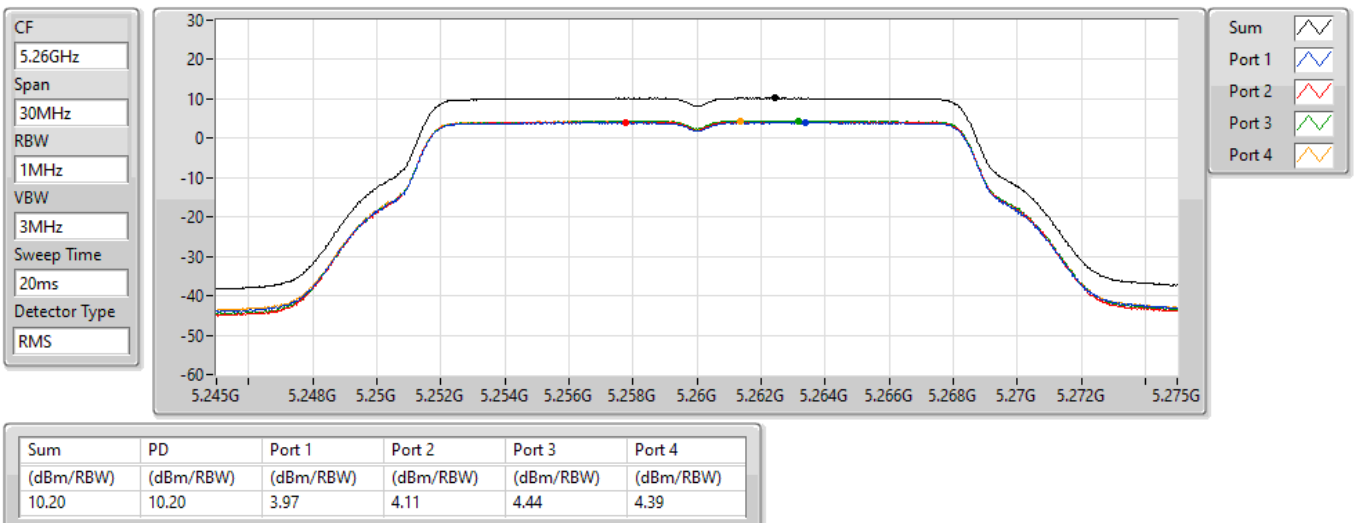


802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

31/03/2022

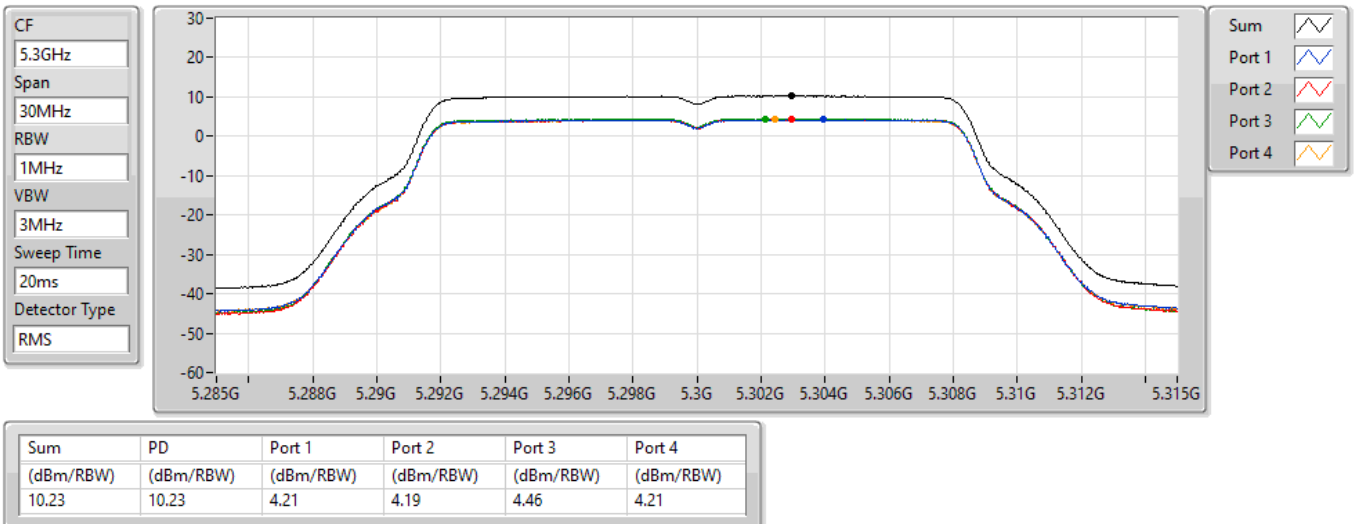


802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

31/03/2022

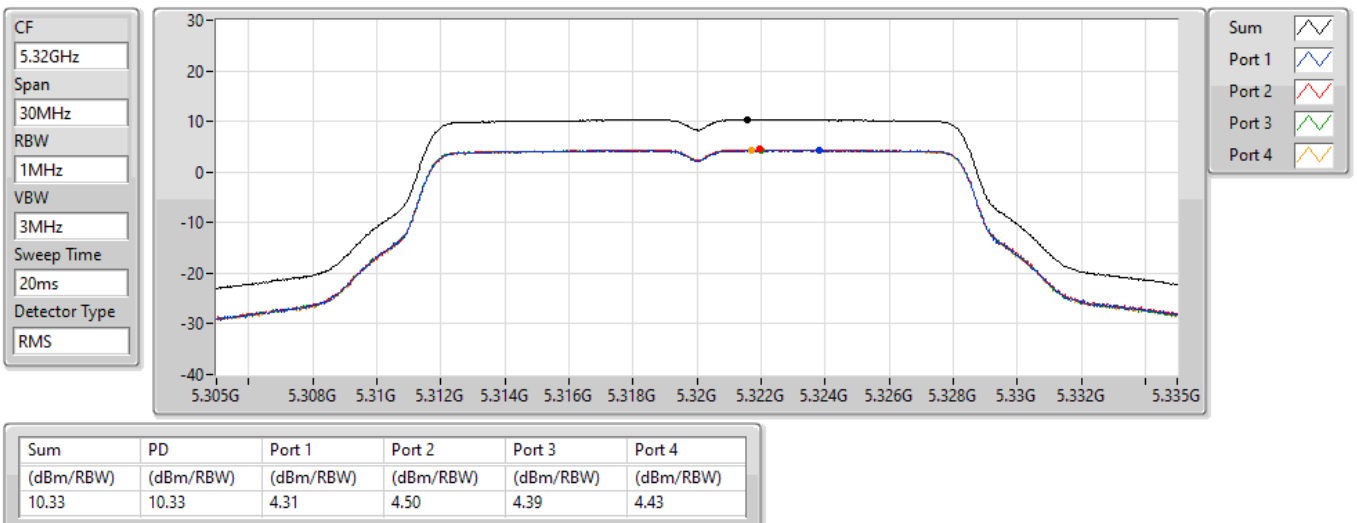


802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

31/03/2022

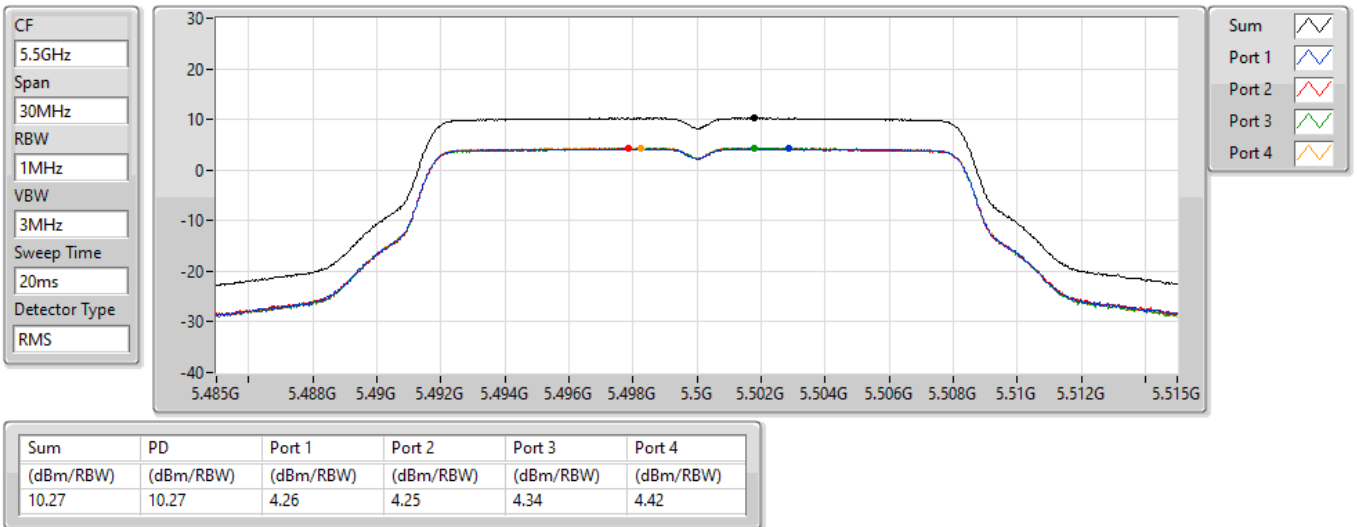


802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

31/03/2022

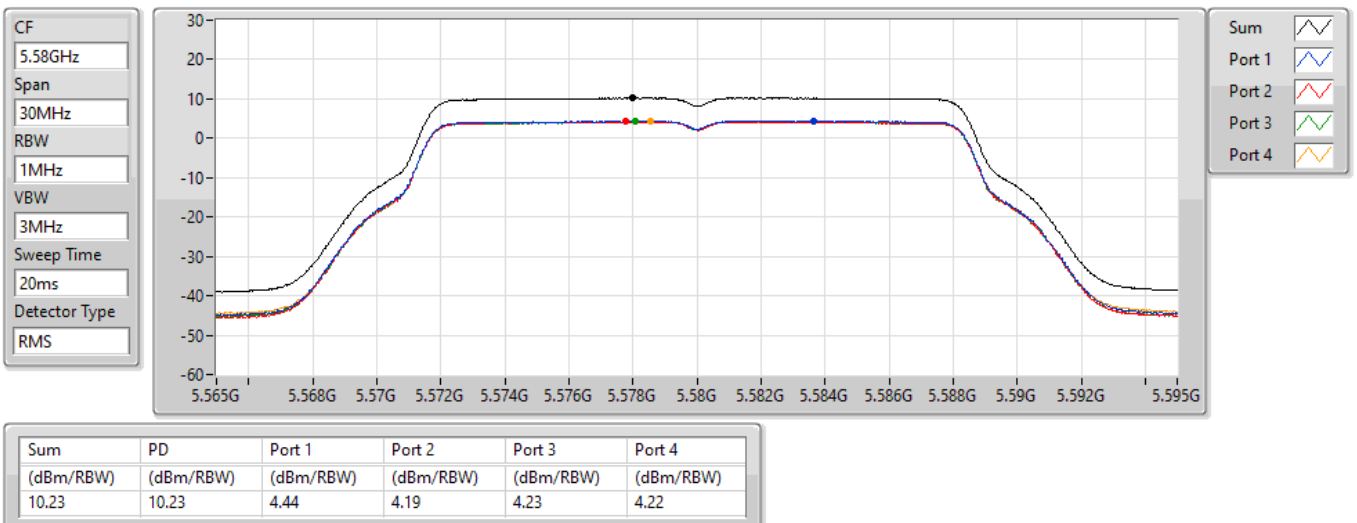


802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

31/03/2022

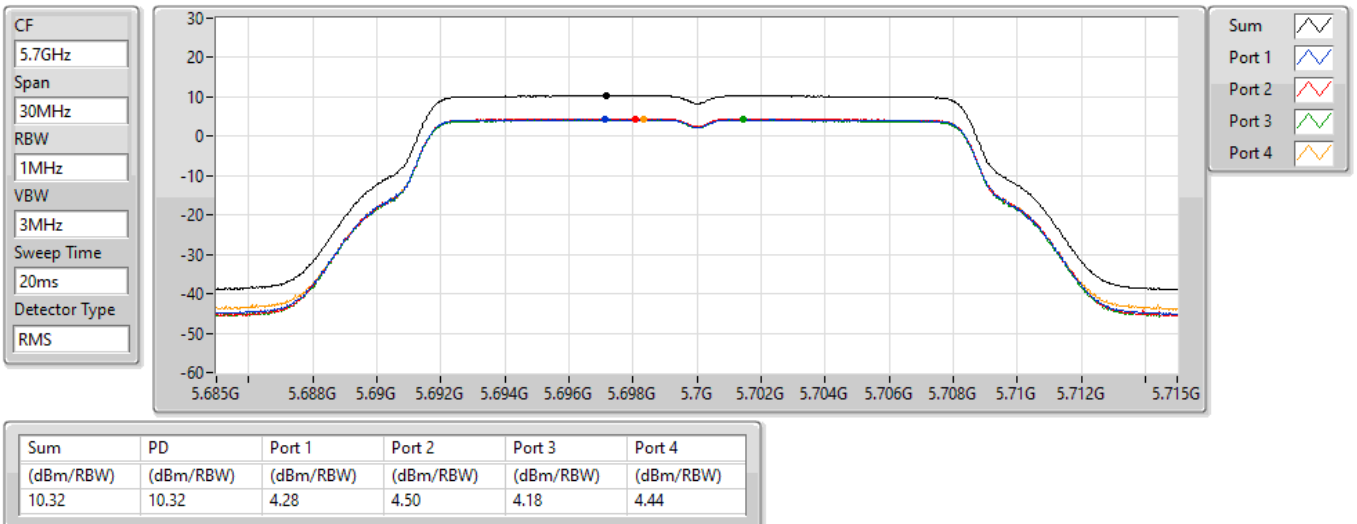


802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

31/03/2022

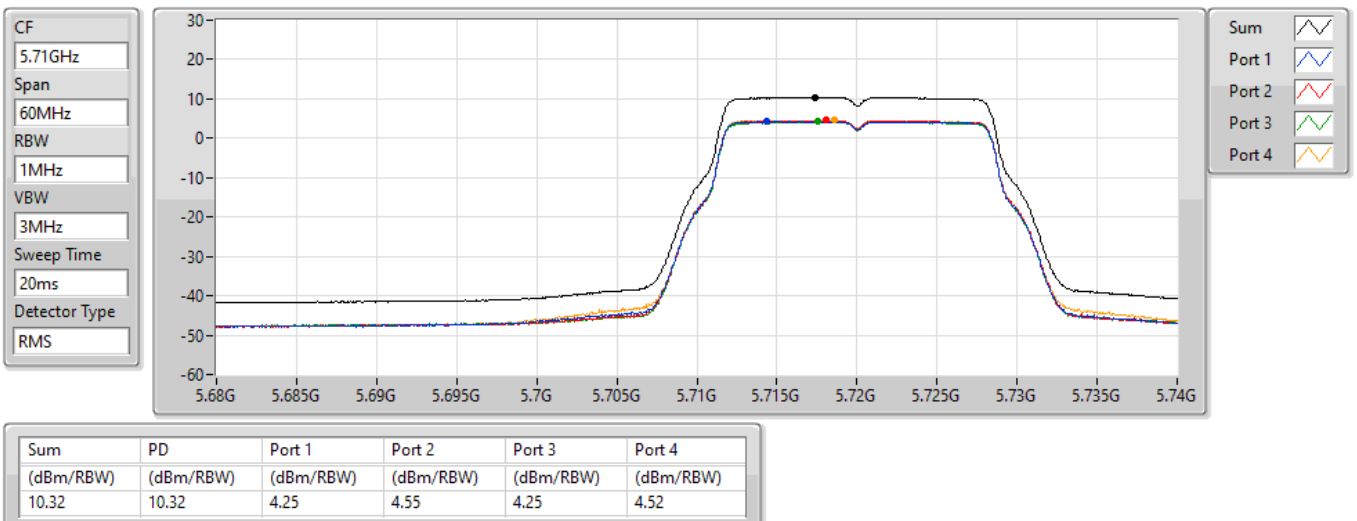


802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

31/03/2022

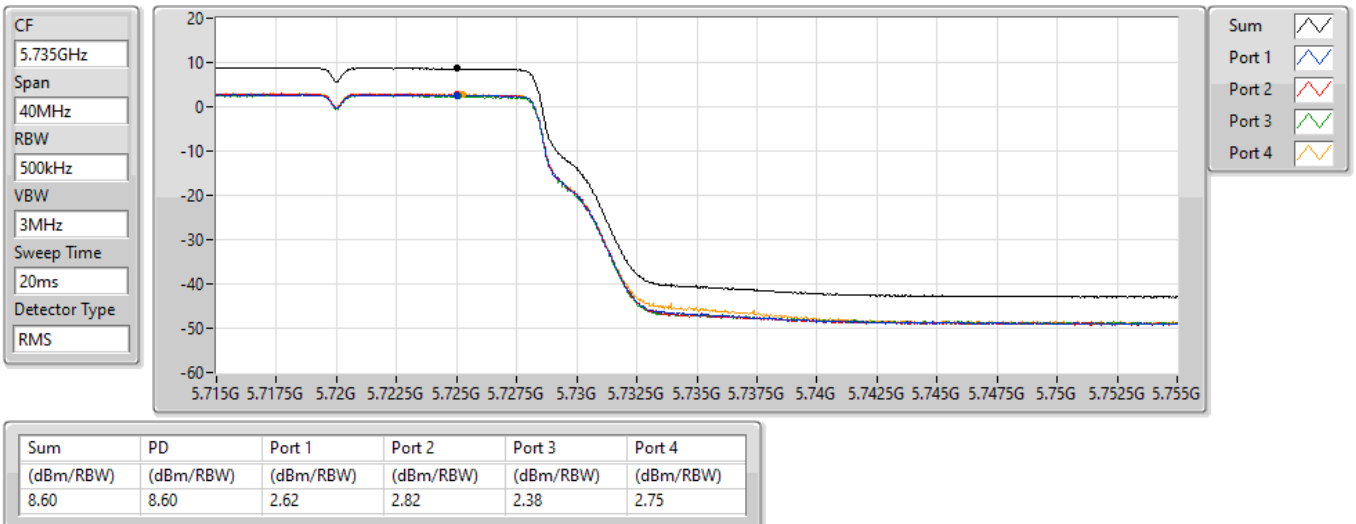


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

31/03/2022

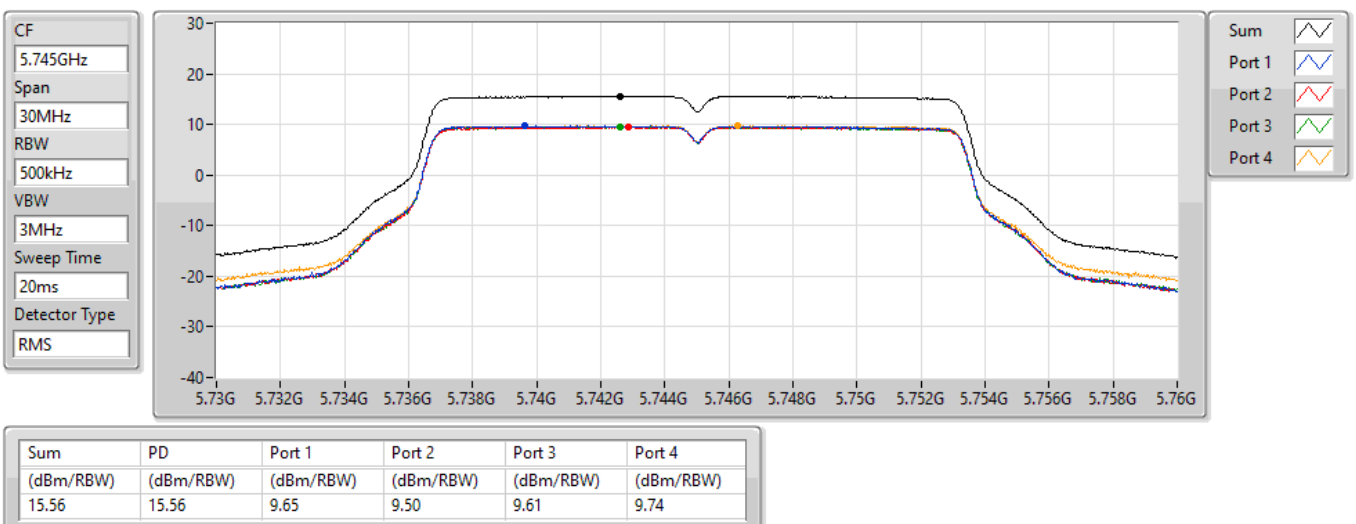


802.11a_Nss1,(6Mbps)_4TX

5745MHz

PSD

15/03/2022

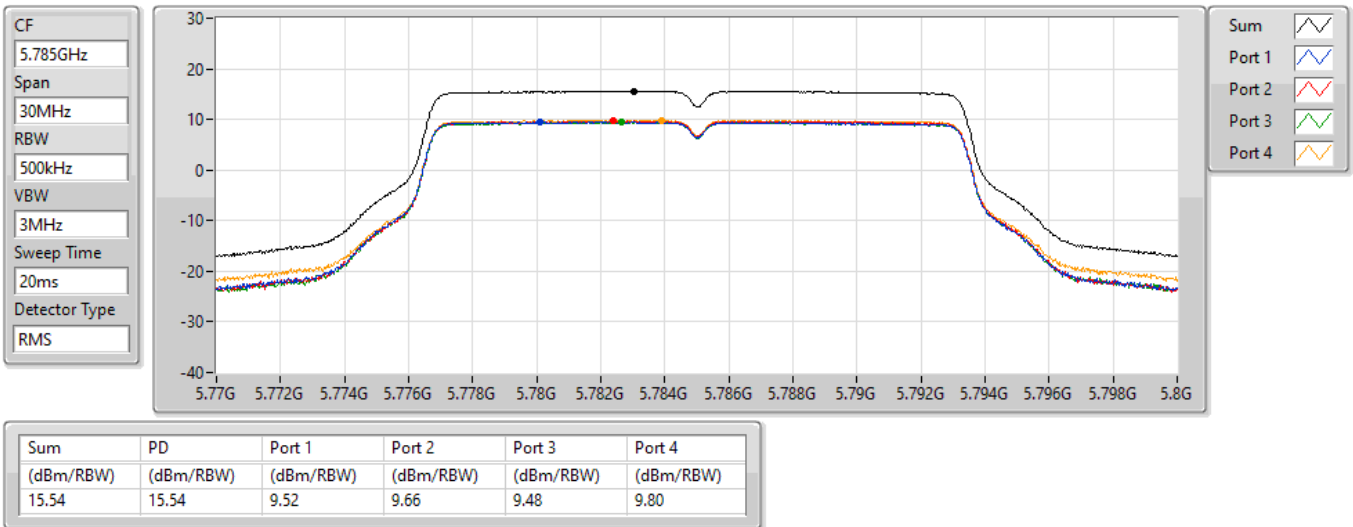


802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

15/03/2022

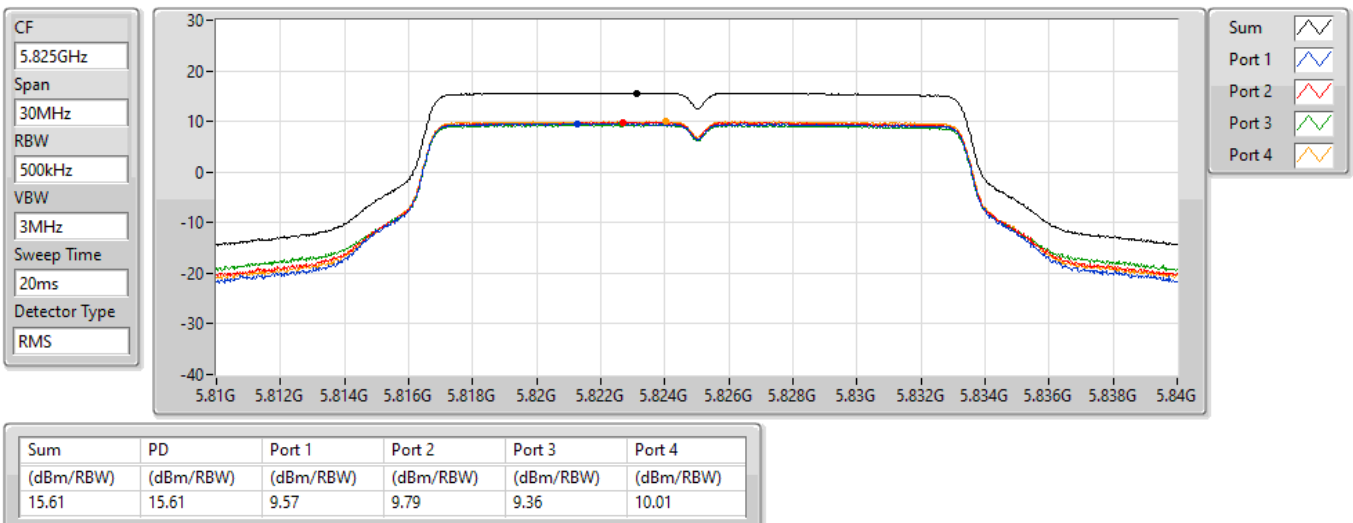


802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

15/03/2022



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.61
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.58
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	9.70
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	3.03
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.99
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.07
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.24
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	3.92
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.85
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.12
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.03
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.34
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.09
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.27
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	8.30

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	6.93	9.73	9.51	9.81	9.58	15.60	16.07
5200MHz	Pass	6.93	9.71	9.39	10.04	9.51	15.61	16.07
5240MHz	Pass	6.93	9.54	9.42	10.15	9.24	15.53	16.07
5260MHz	Pass	6.57	3.84	3.75	4.23	3.64	9.84	10.43
5300MHz	Pass	6.57	3.79	3.88	4.18	3.64	9.82	10.43
5320MHz	Pass	6.57	4.15	4.13	3.95	3.91	9.99	10.43
5500MHz	Pass	6.55	3.80	3.70	3.59	3.79	9.66	10.45
5580MHz	Pass	6.55	4.02	4.01	3.84	3.66	9.85	10.45
5700MHz	Pass	6.55	3.78	3.86	3.81	3.89	9.77	10.45
5720MHz Straddle 5.47-5.725GHz	Pass	6.55	3.91	3.84	3.80	3.85	9.80	10.45
5720MHz Straddle 5.725-5.85GHz	Pass	6.80	2.09	2.07	2.01	2.09	8.03	29.20
5745MHz	Pass	6.80	7.98	7.71	7.87	7.88	13.78	29.20
5785MHz	Pass	6.80	8.21	8.04	8.08	8.30	14.09	29.20
5825MHz	Pass	6.80	7.79	7.91	7.90	8.52	13.95	29.20
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.93	6.66	6.14	6.70	6.39	12.42	16.07
5230MHz	Pass	6.93	6.86	6.36	7.08	6.21	12.58	16.07
5270MHz	Pass	6.57	0.98	1.09	1.45	0.85	7.07	10.43
5310MHz	Pass	6.57	0.98	1.08	1.17	0.70	6.93	10.43
5510MHz	Pass	6.55	0.69	0.99	0.88	0.77	6.77	10.45
5550MHz	Pass	6.55	0.77	1.13	1.36	0.77	6.97	10.45
5670MHz	Pass	6.55	1.09	1.00	0.84	0.68	6.86	10.45
5710MHz Straddle 5.47-5.725GHz	Pass	6.55	1.21	1.25	1.10	1.08	7.12	10.45
5710MHz Straddle 5.725-5.85GHz	Pass	6.80	-0.90	-0.83	-0.99	-0.81	5.08	29.20
5755MHz	Pass	6.80	5.28	5.00	5.03	5.24	11.09	29.20
5795MHz	Pass	6.80	5.23	5.20	5.22	5.61	11.27	29.20
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.93	3.82	3.45	4.22	3.71	9.70	16.07
5290MHz	Pass	6.57	-1.69	-1.66	-1.59	-1.78	4.24	10.43
5530MHz	Pass	6.55	-2.05	-1.99	-1.99	-2.12	3.90	10.45
5610MHz	Pass	6.55	-1.67	-2.05	-1.95	-2.04	4.03	10.45
5690MHz Straddle 5.47-5.725GHz	Pass	6.55	-2.05	-2.15	-2.12	-2.36	3.82	10.45
5690MHz Straddle 5.725-5.85GHz	Pass	6.80	-4.53	-4.75	-4.67	-4.63	1.32	29.20
5775MHz	Pass	6.80	2.55	2.19	2.33	2.30	8.30	29.20
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.93	-2.87	-3.07	-3.00	-2.87	3.03	16.07
5250MHz Straddle 5.25-5.35GHz	Pass	6.57	-2.44	-1.75	-1.59	-2.50	3.92	10.43
5570MHz	Pass	6.55	-4.64	-4.71	-4.55	-4.71	1.34	10.45

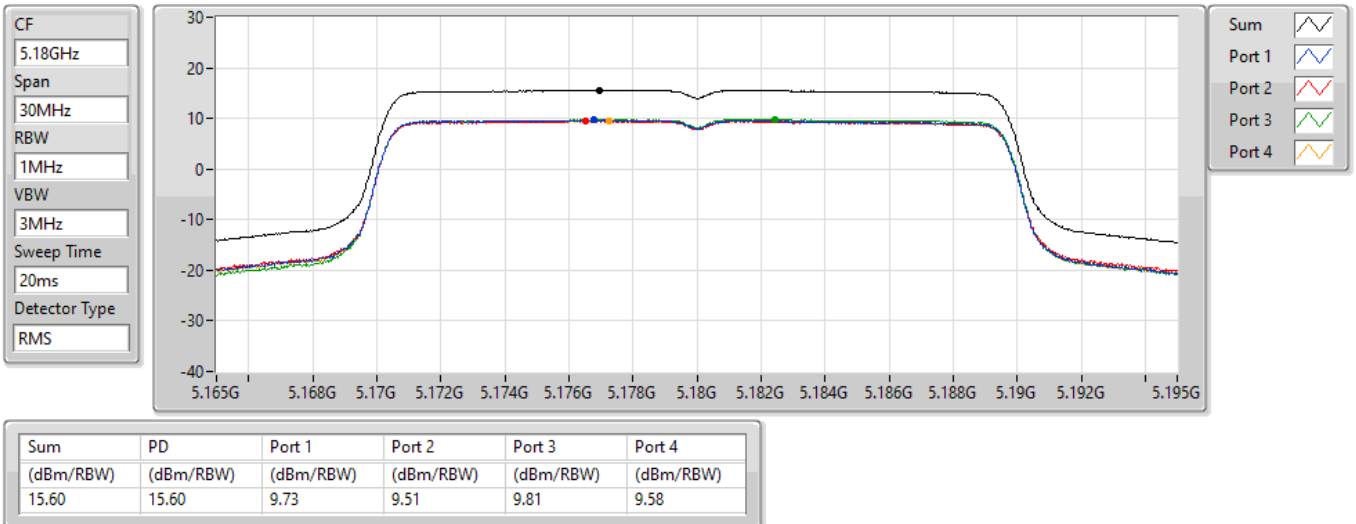
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5180MHz

31/03/2022

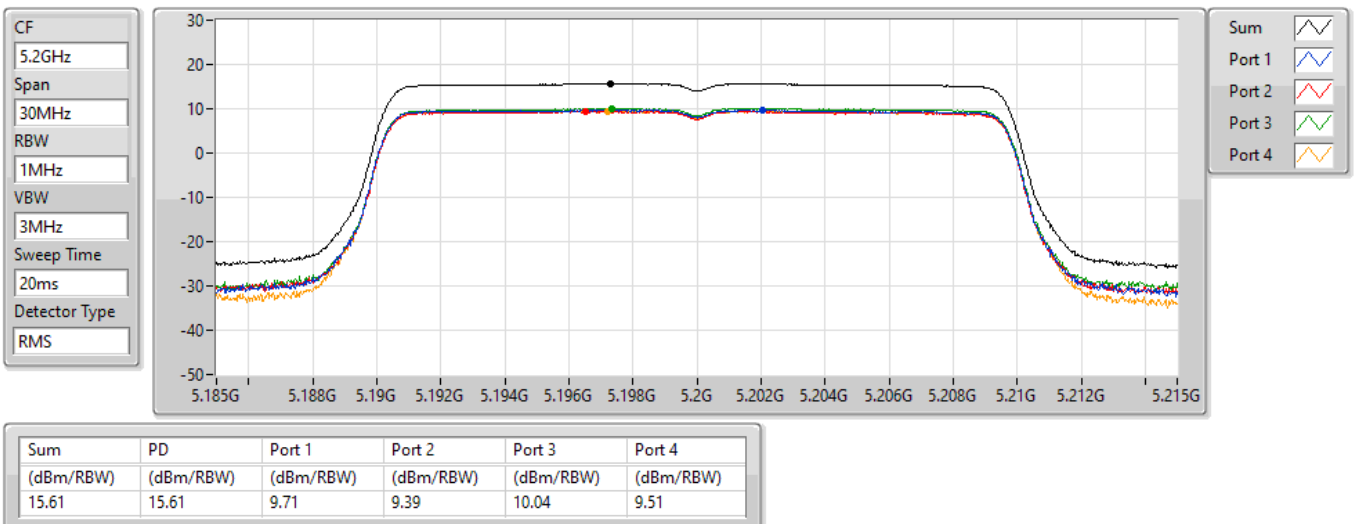


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5200MHz

31/03/2022

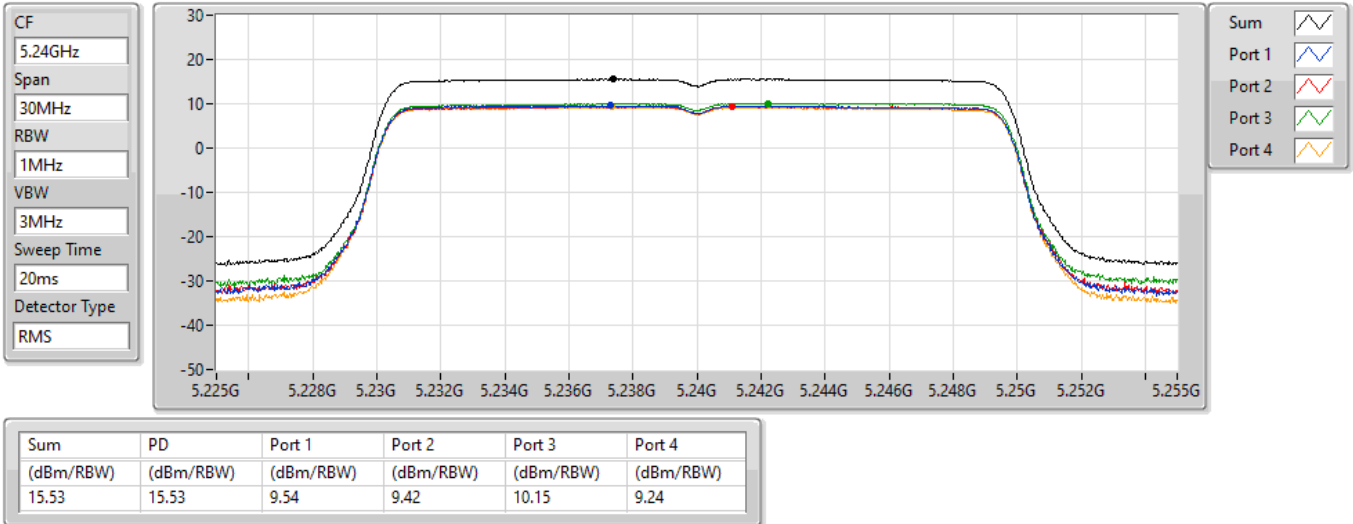


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5240MHz

31/03/2022

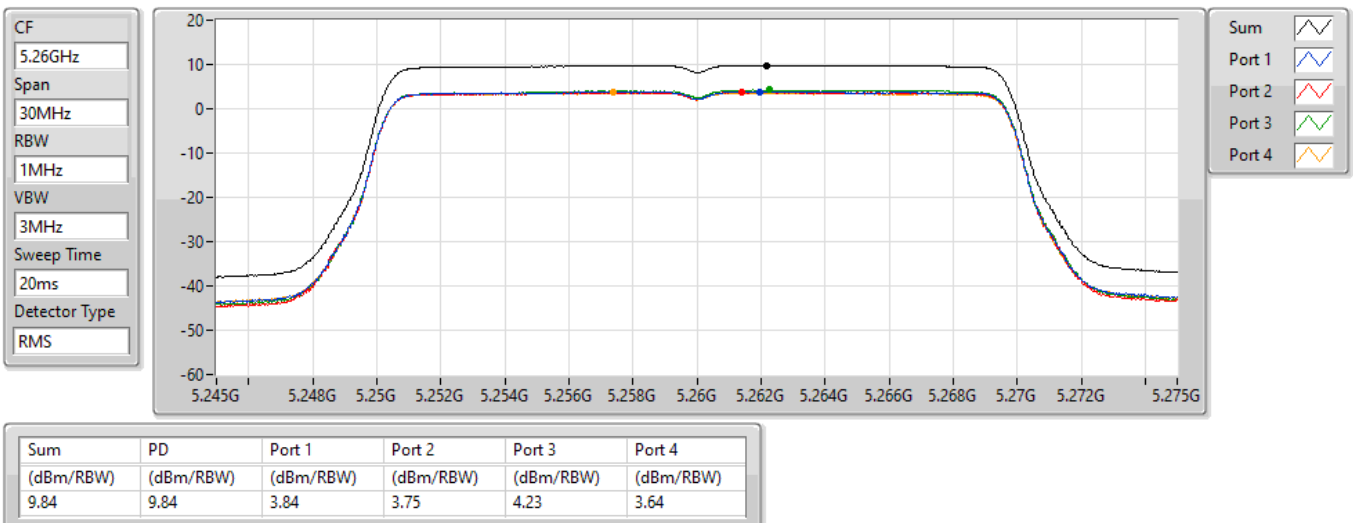


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

31/03/2022

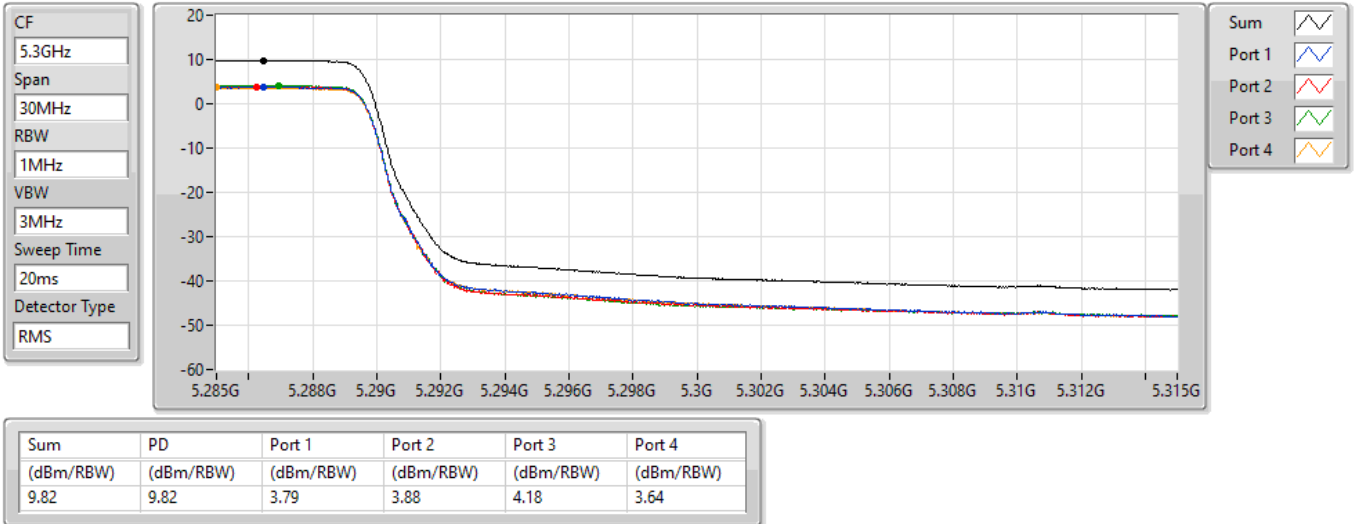


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

31/03/2022

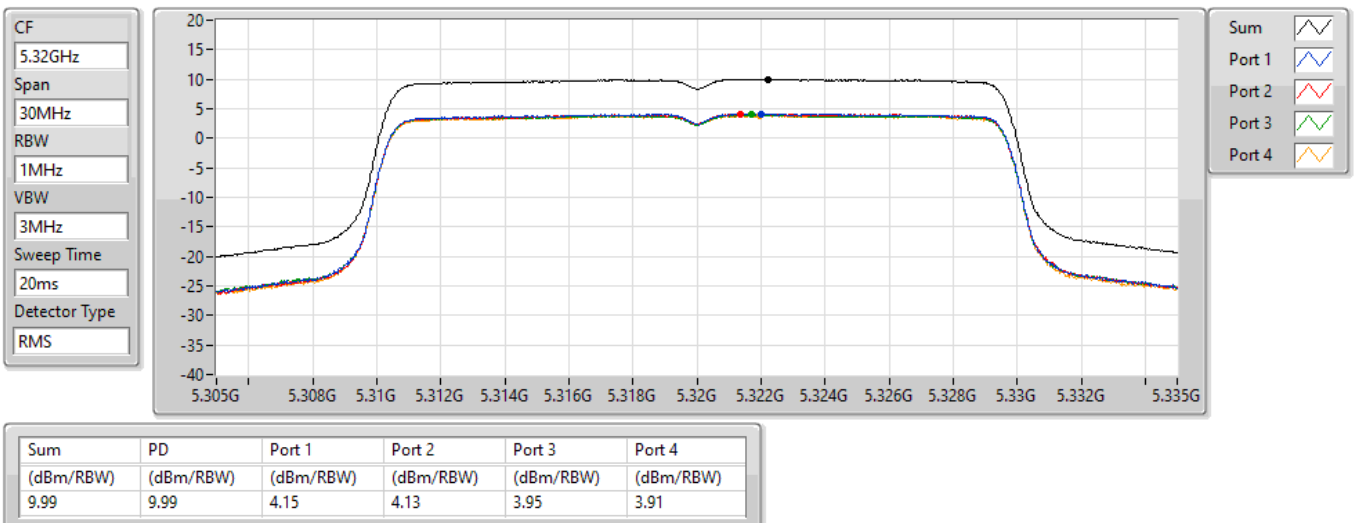


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

31/03/2022

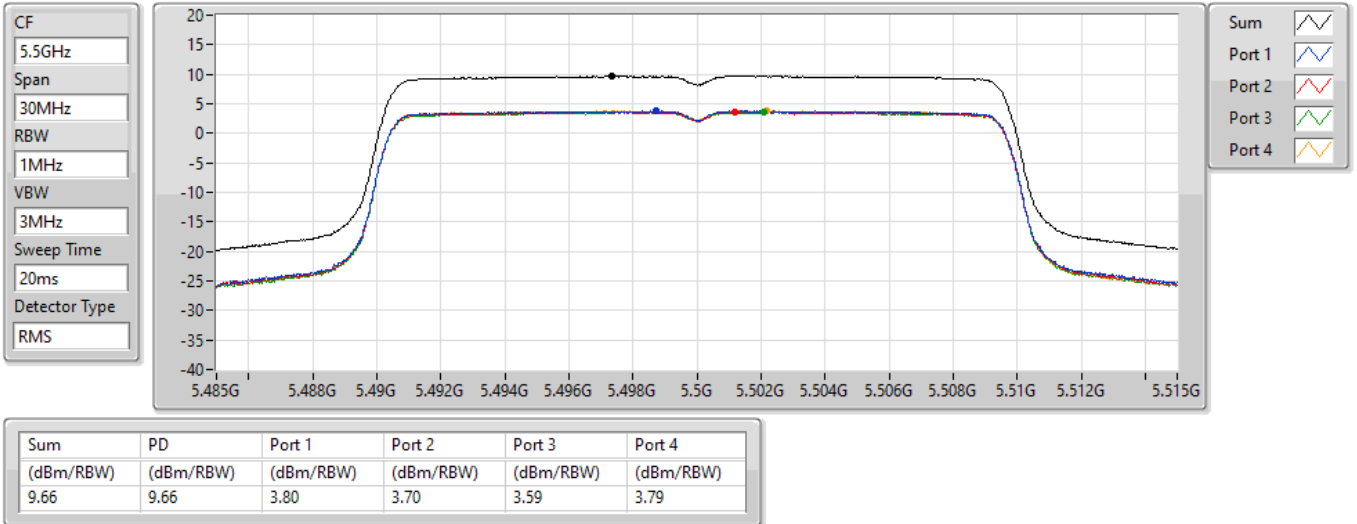


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

31/03/2022

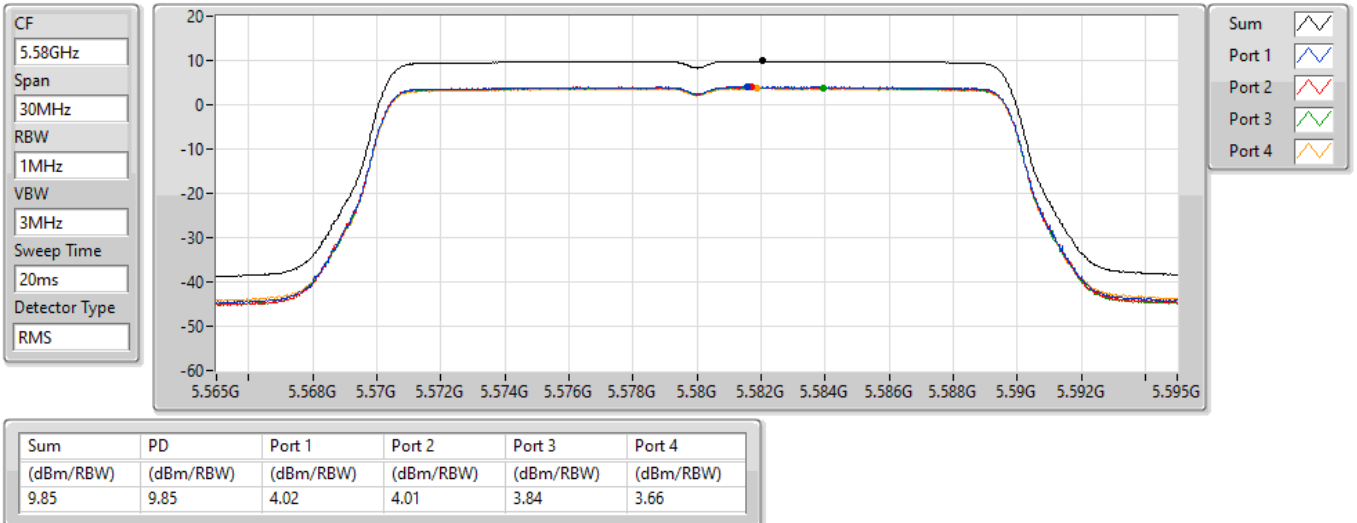


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

31/03/2022

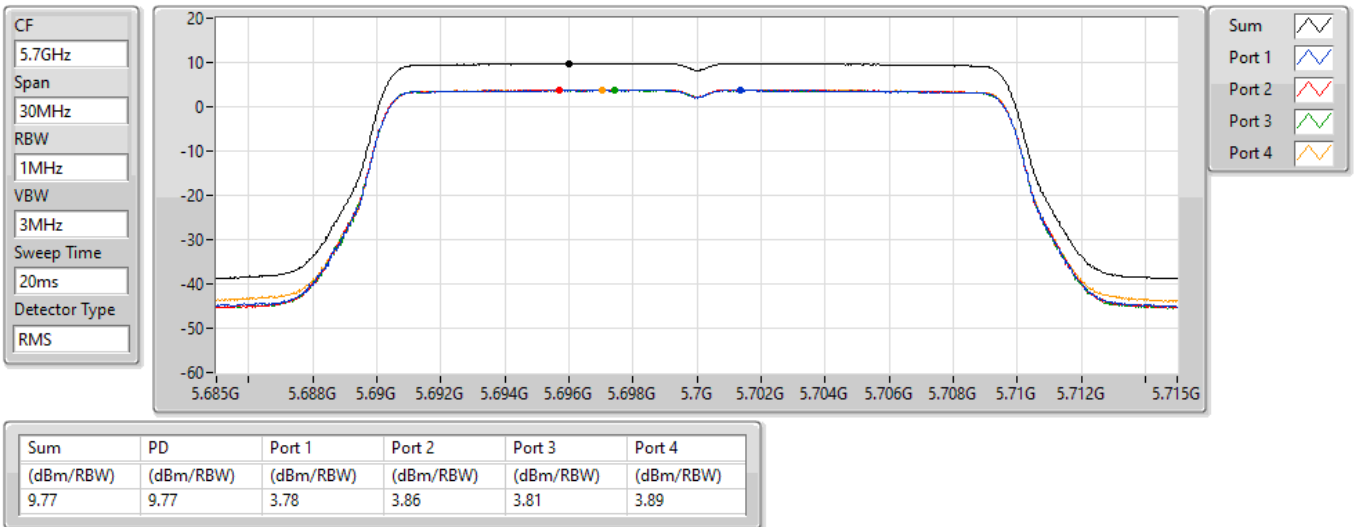


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

31/03/2022

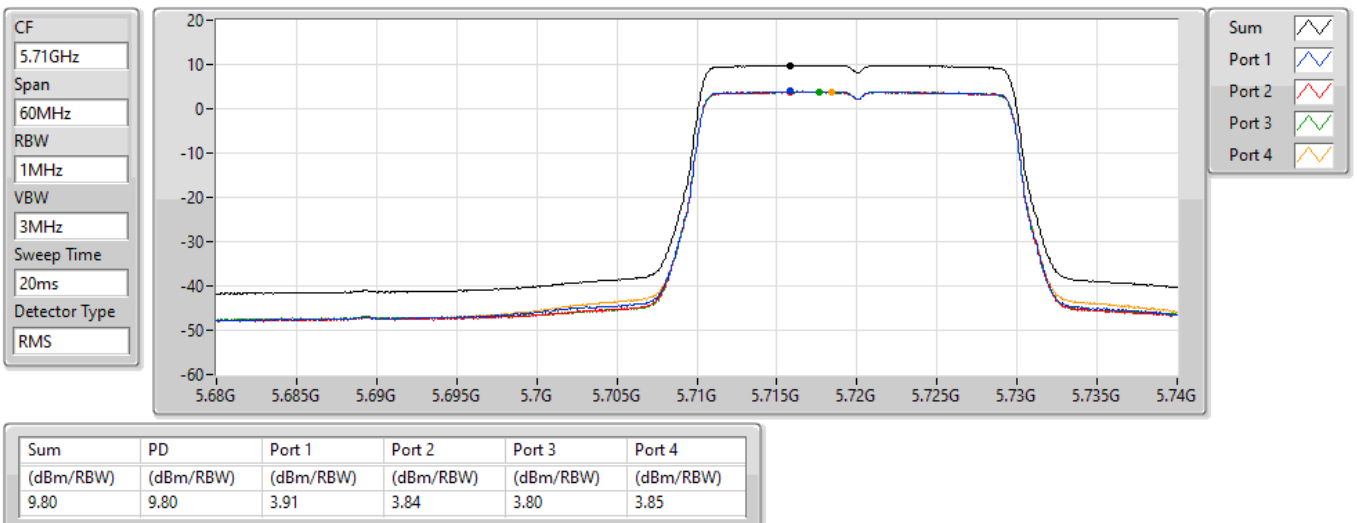


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

31/03/2022

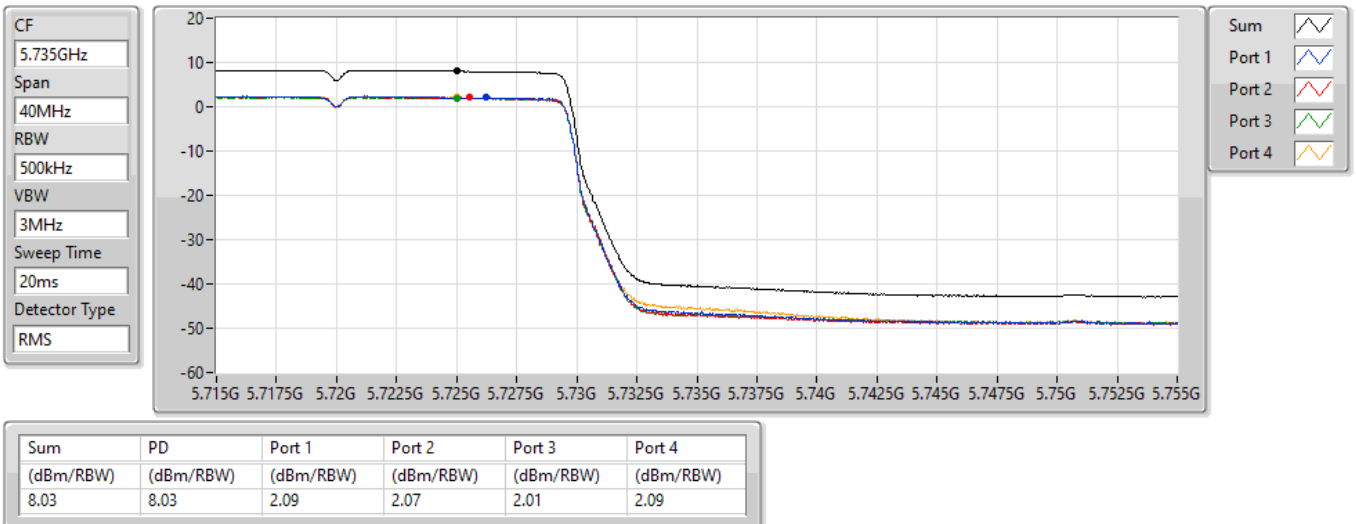


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

31/03/2022

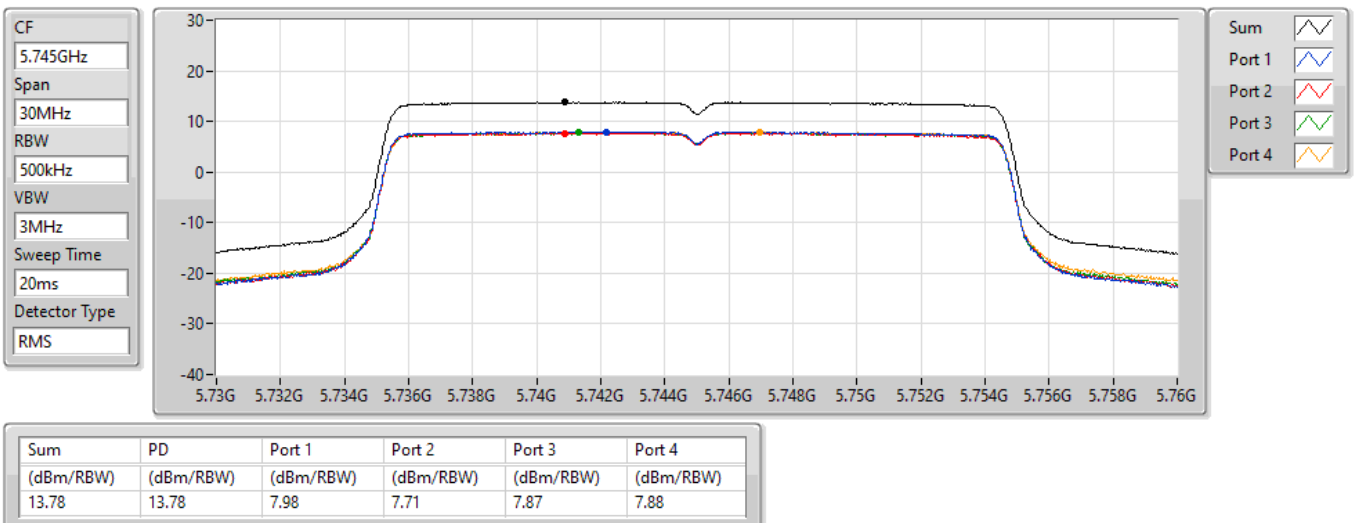


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5745MHz

PSD

31/03/2022

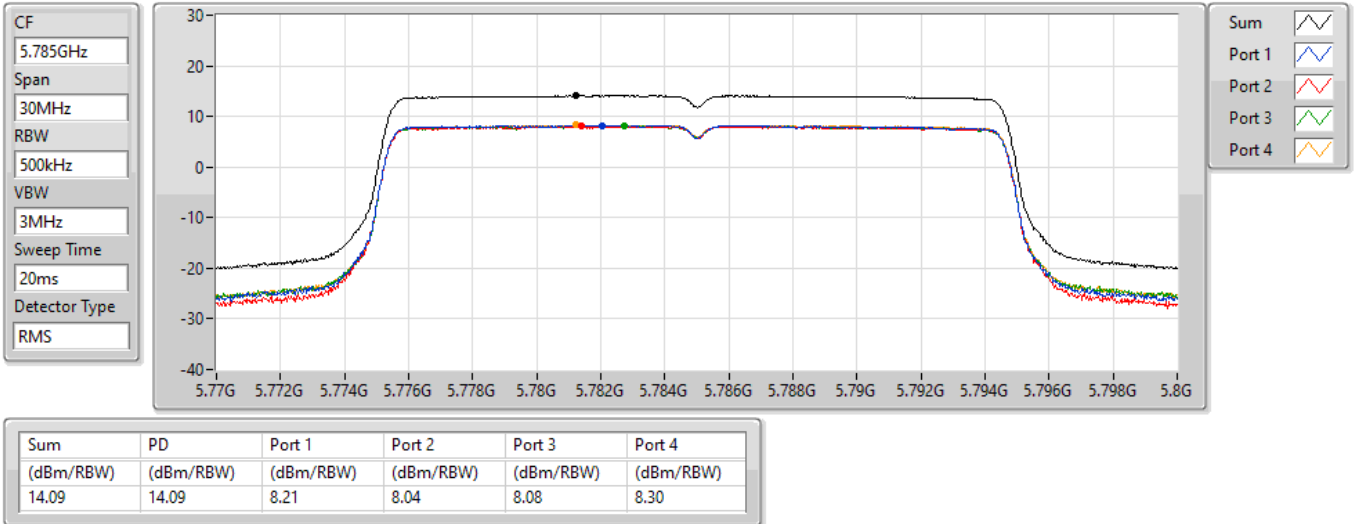


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

31/03/2022

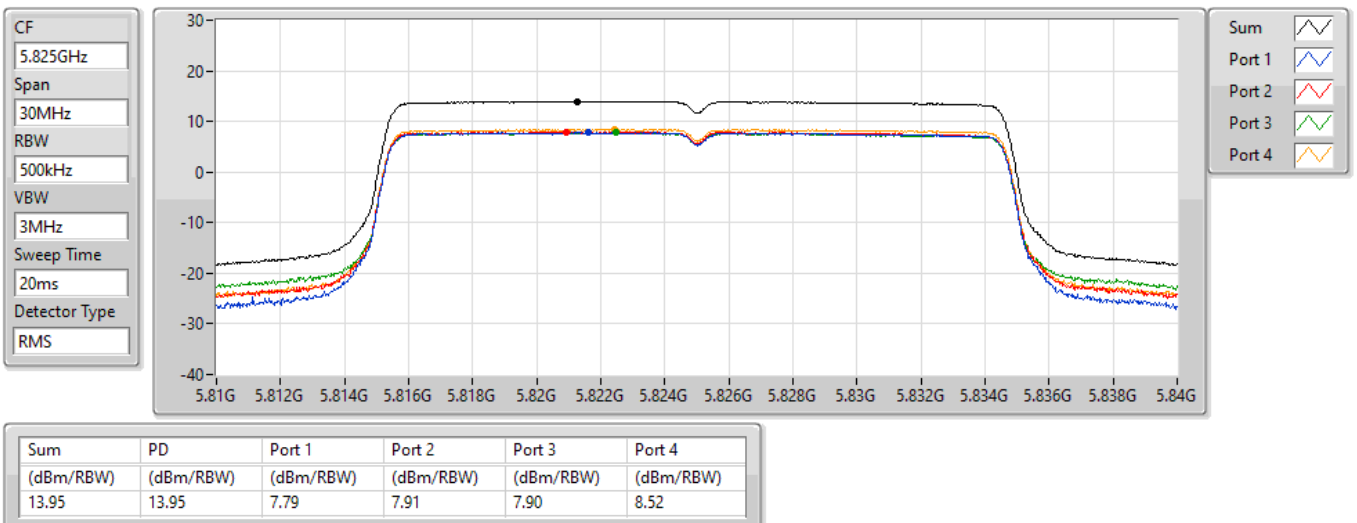


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

31/03/2022

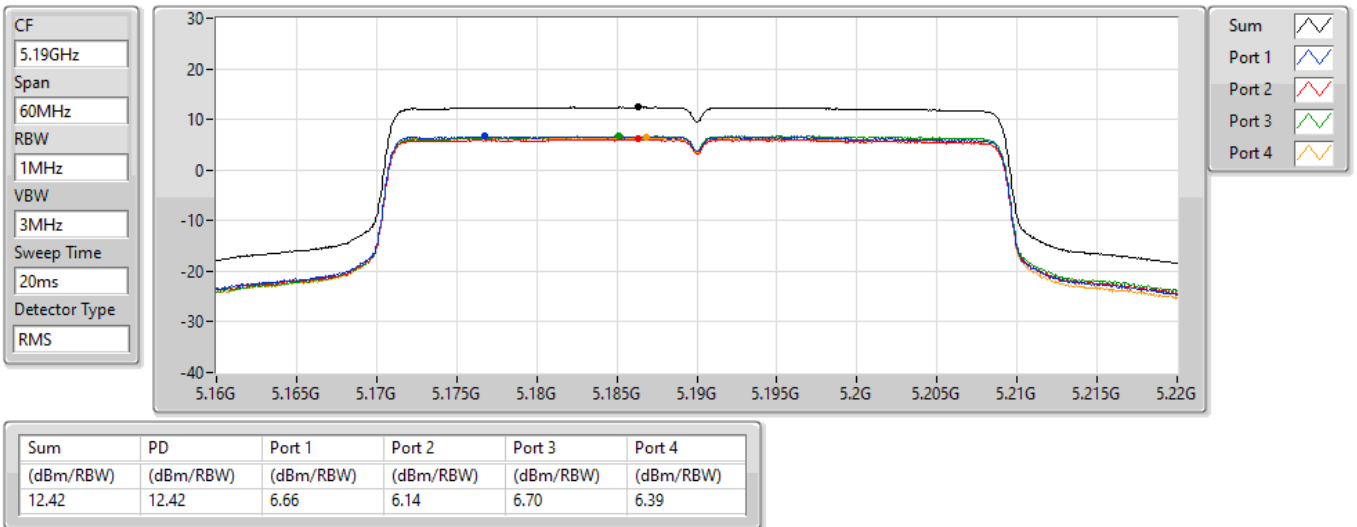


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

31/03/2022

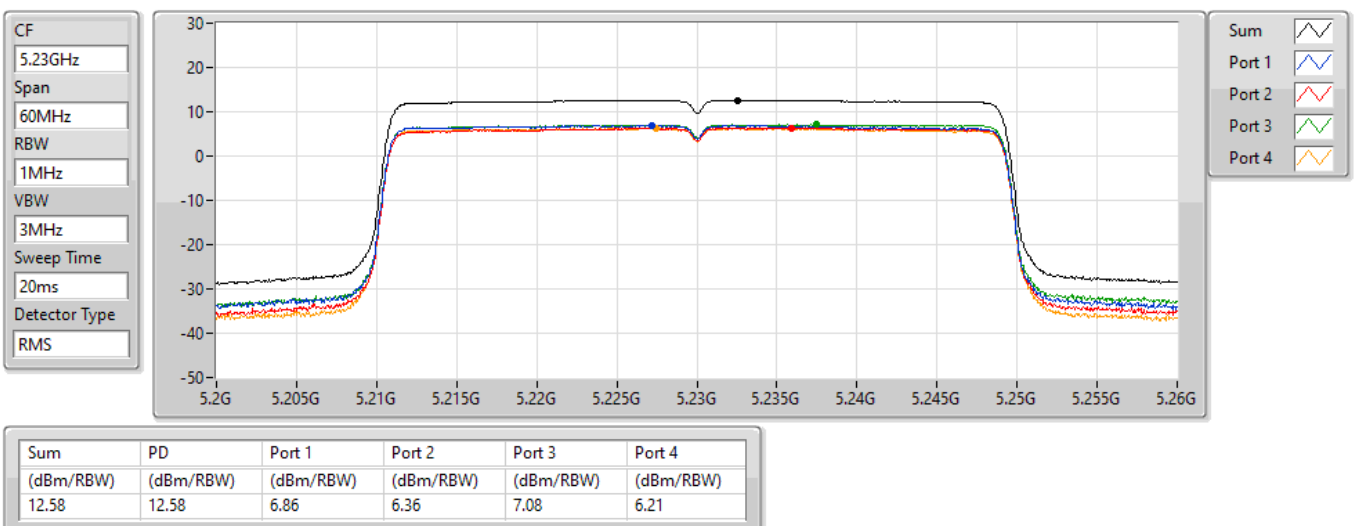


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

31/03/2022

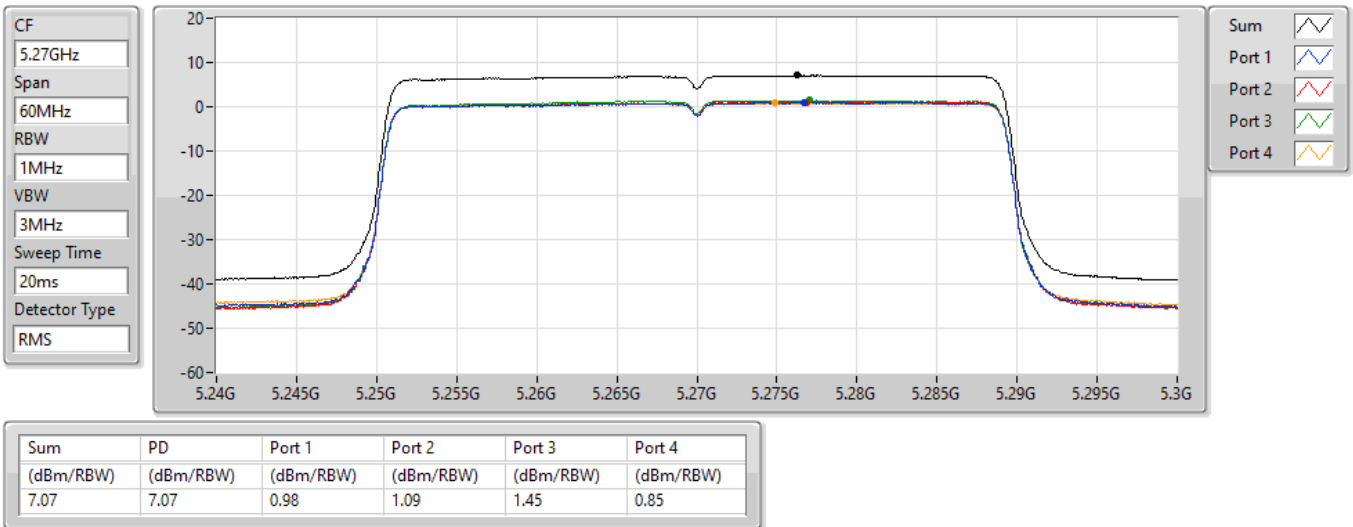


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

31/03/2022

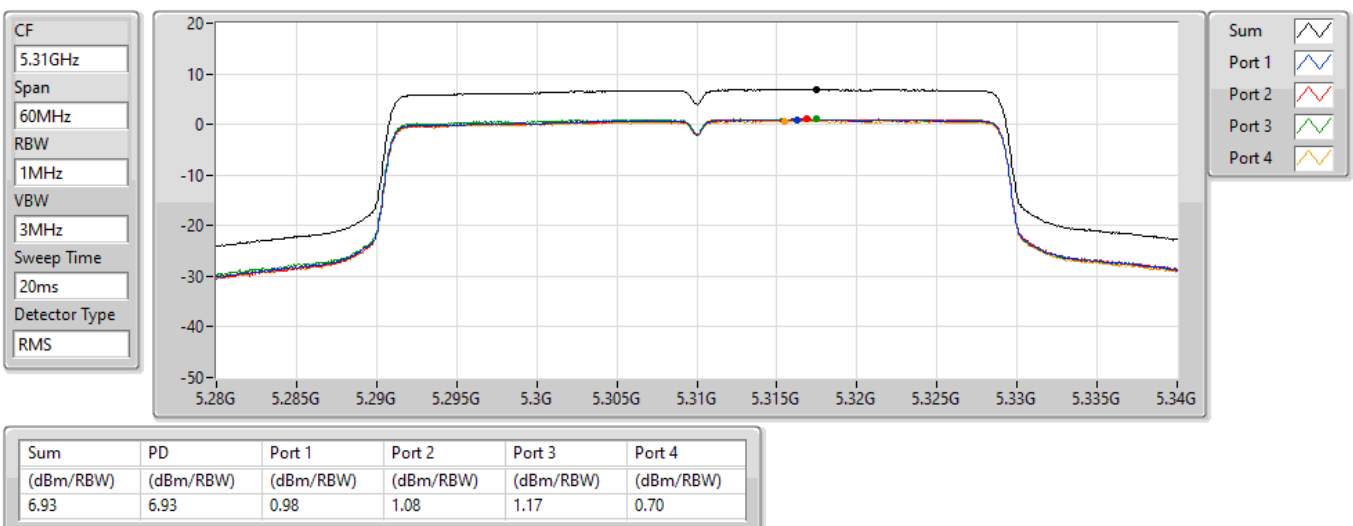


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

31/03/2022

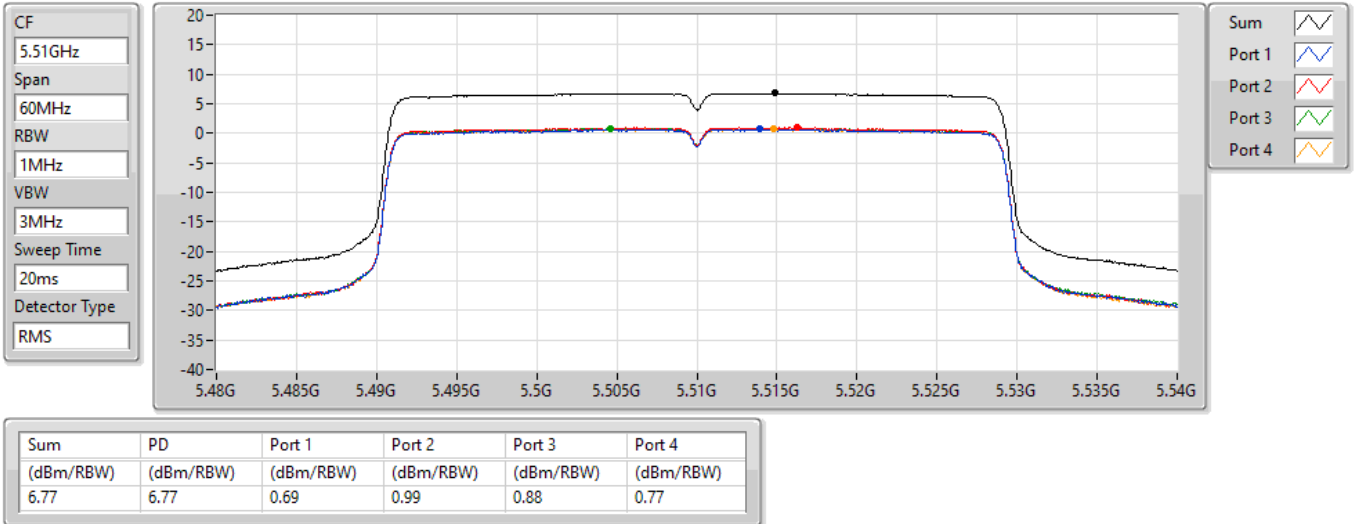


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

31/03/2022

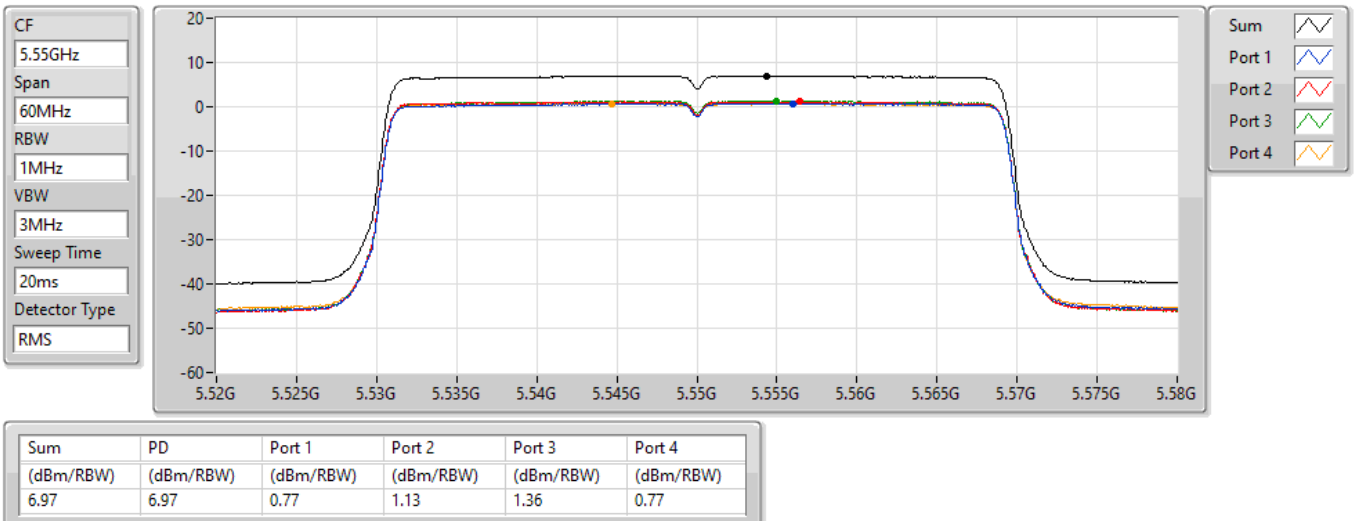


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

31/03/2022

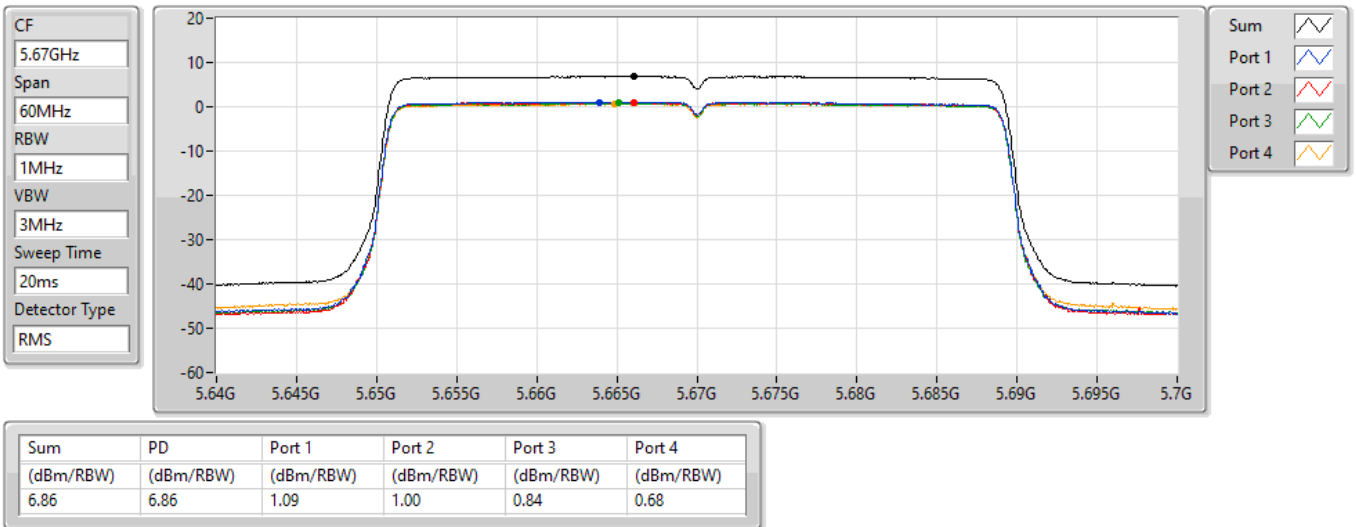


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

31/03/2022

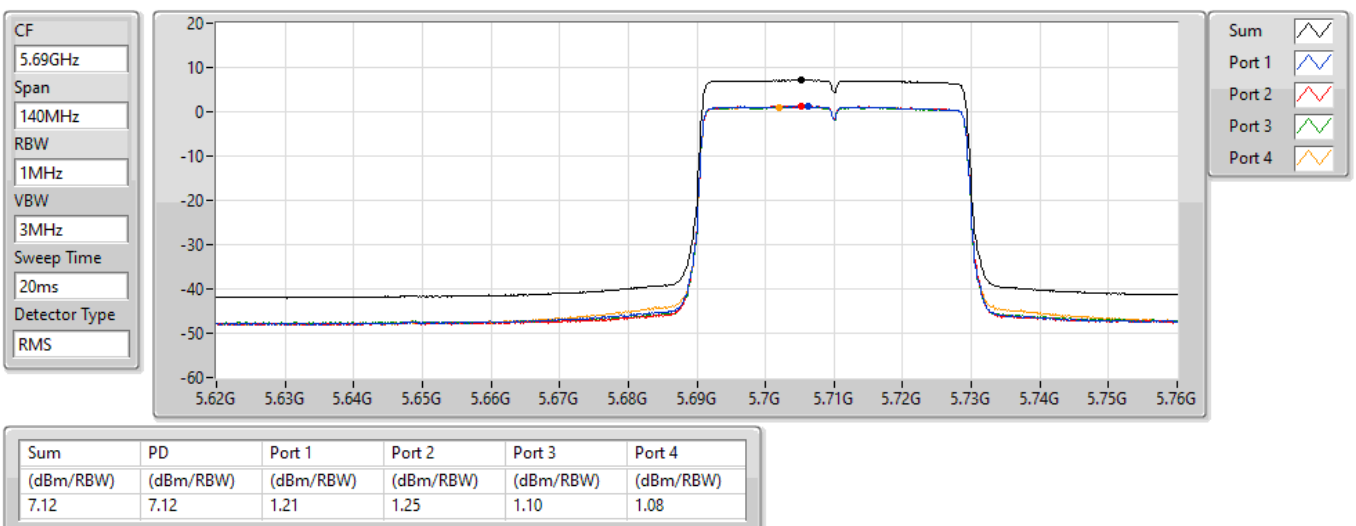


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

31/03/2022

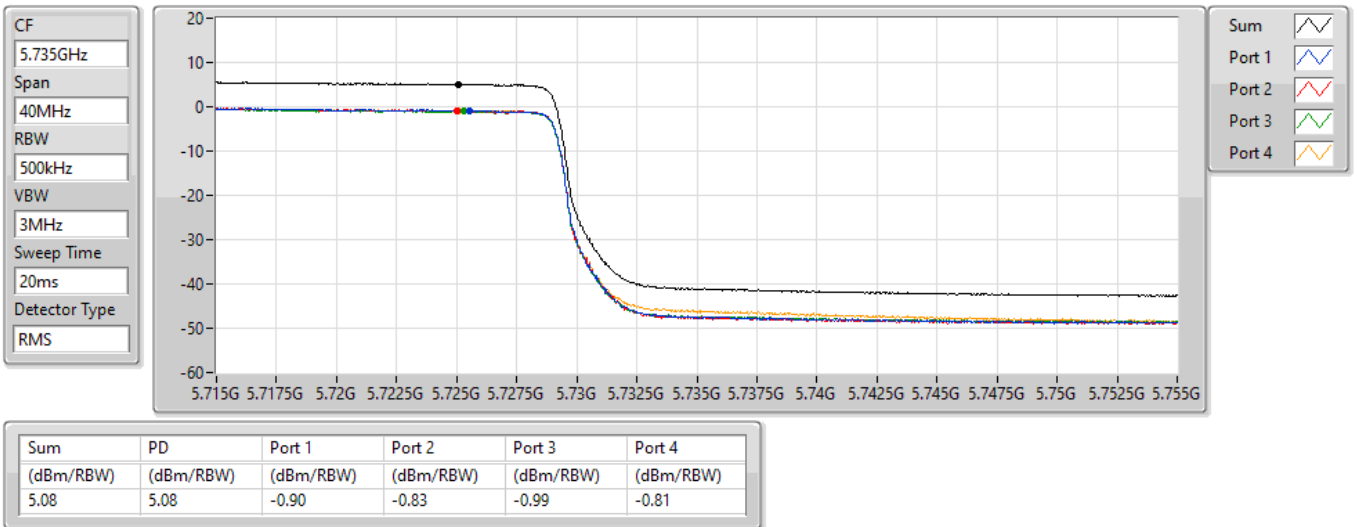


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

31/03/2022

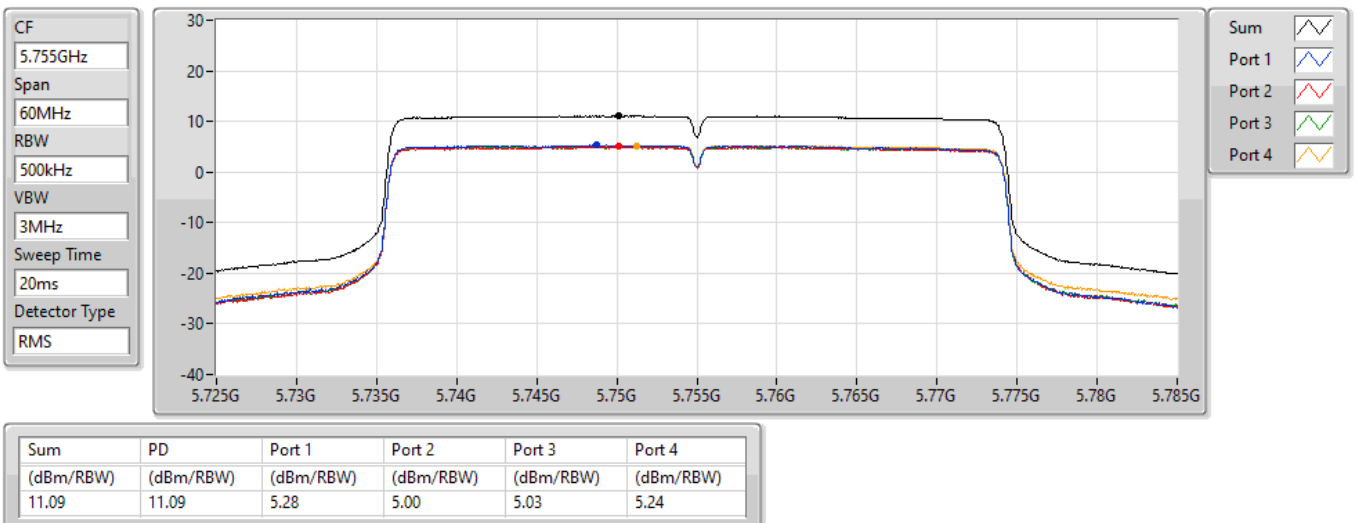


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5755MHz

PSD

31/03/2022

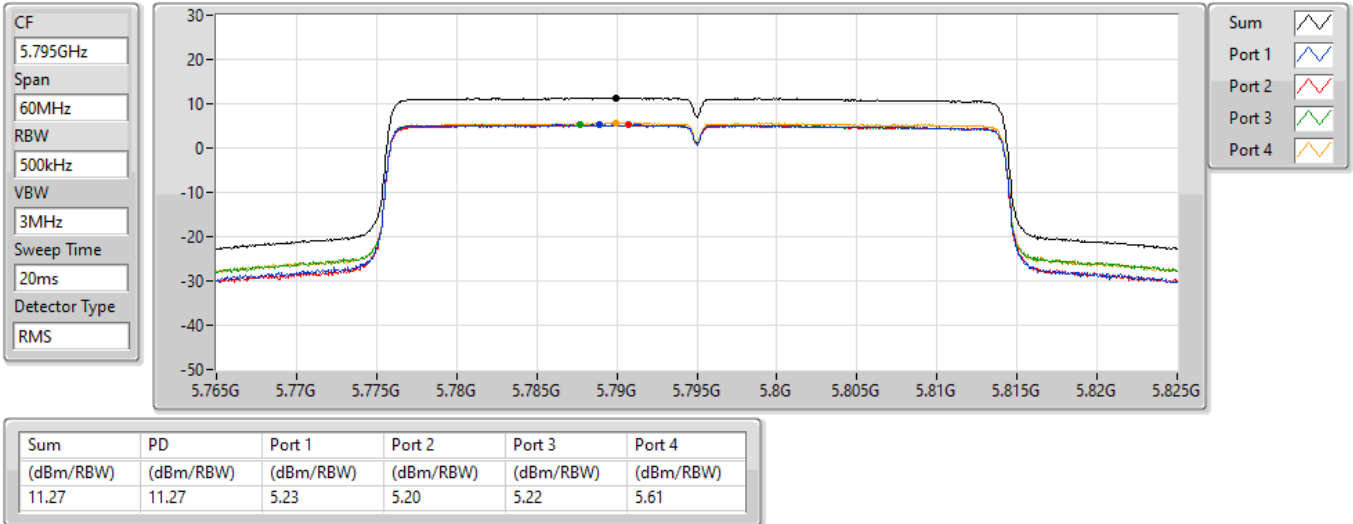


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

31/03/2022

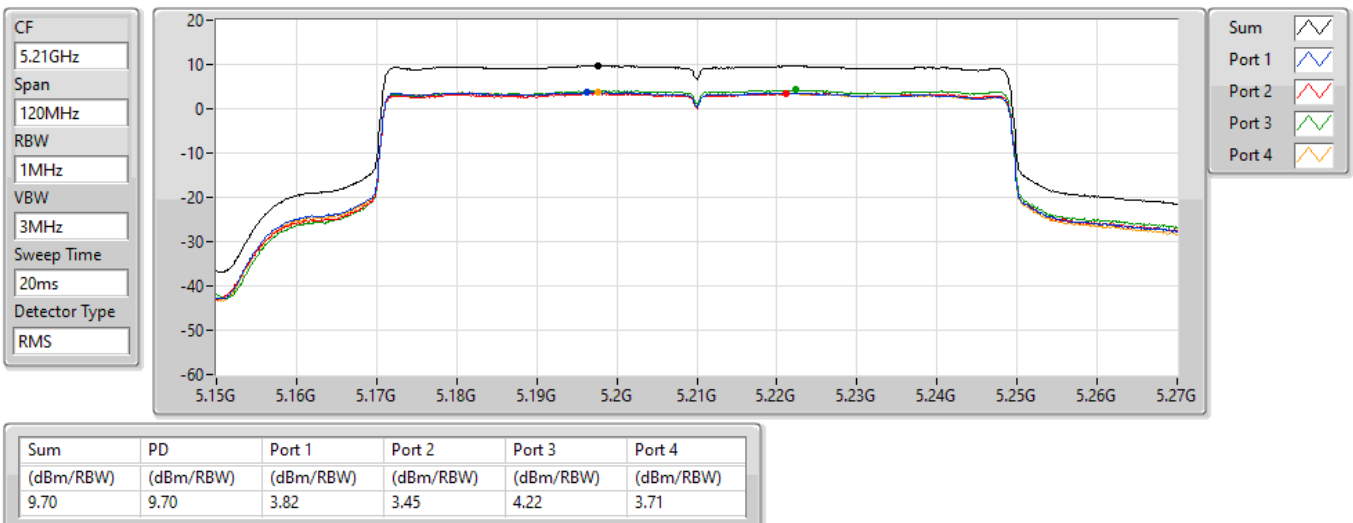


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

31/03/2022

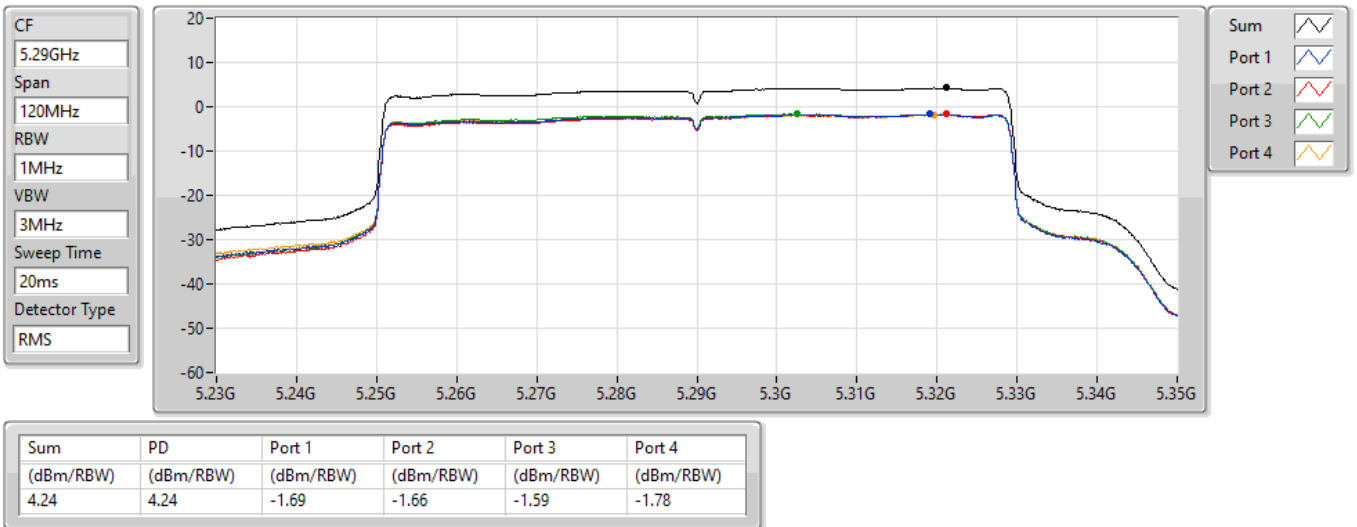


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

31/03/2022

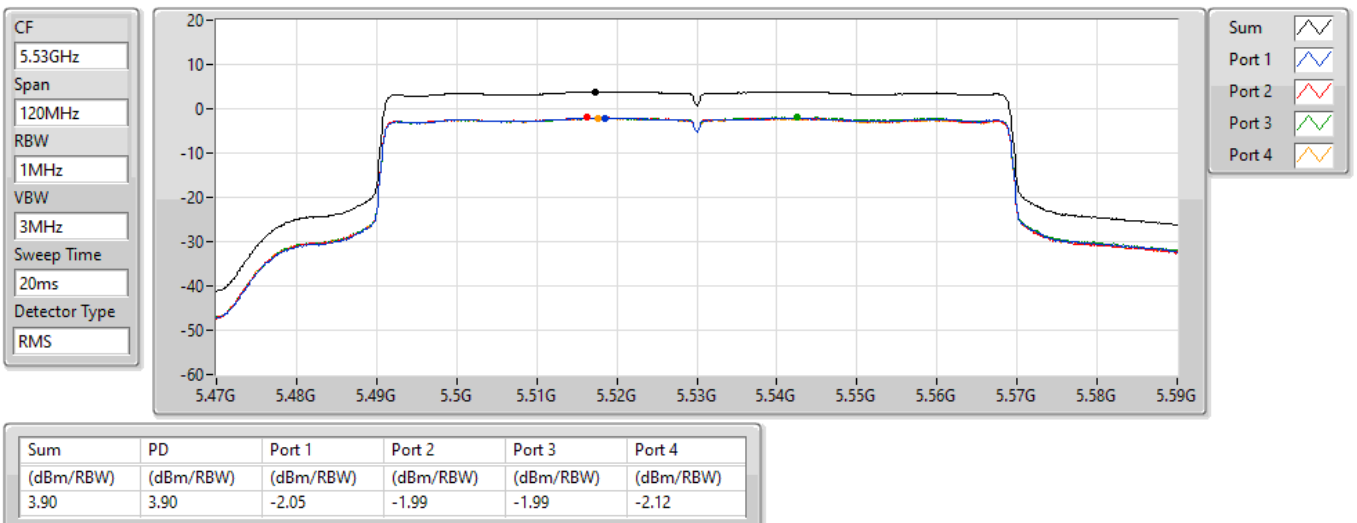


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

31/03/2022

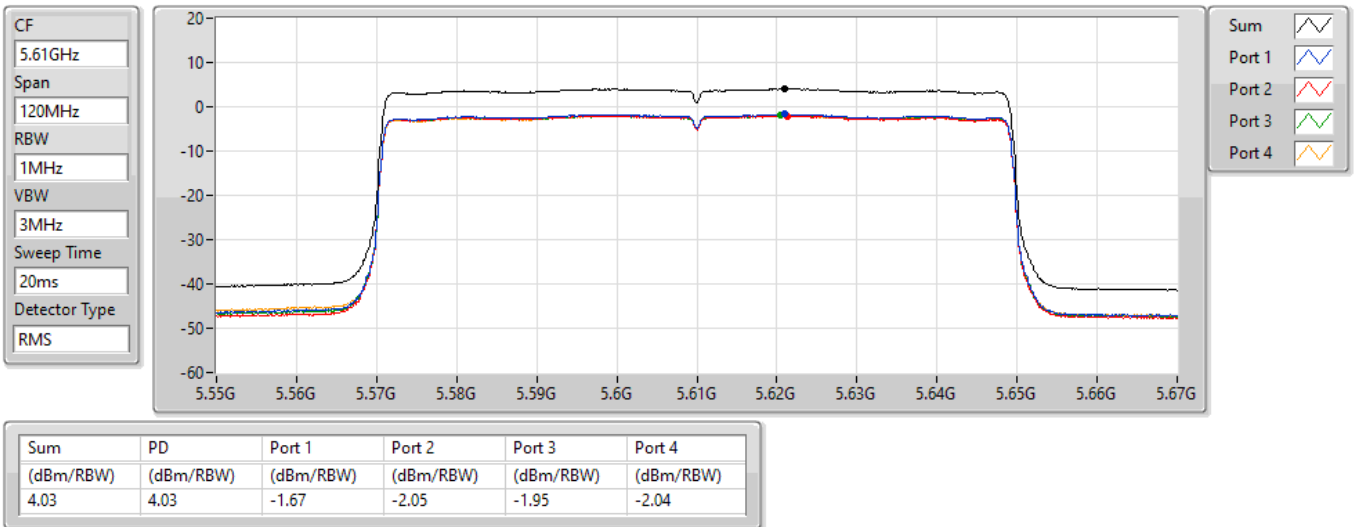


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

31/03/2022

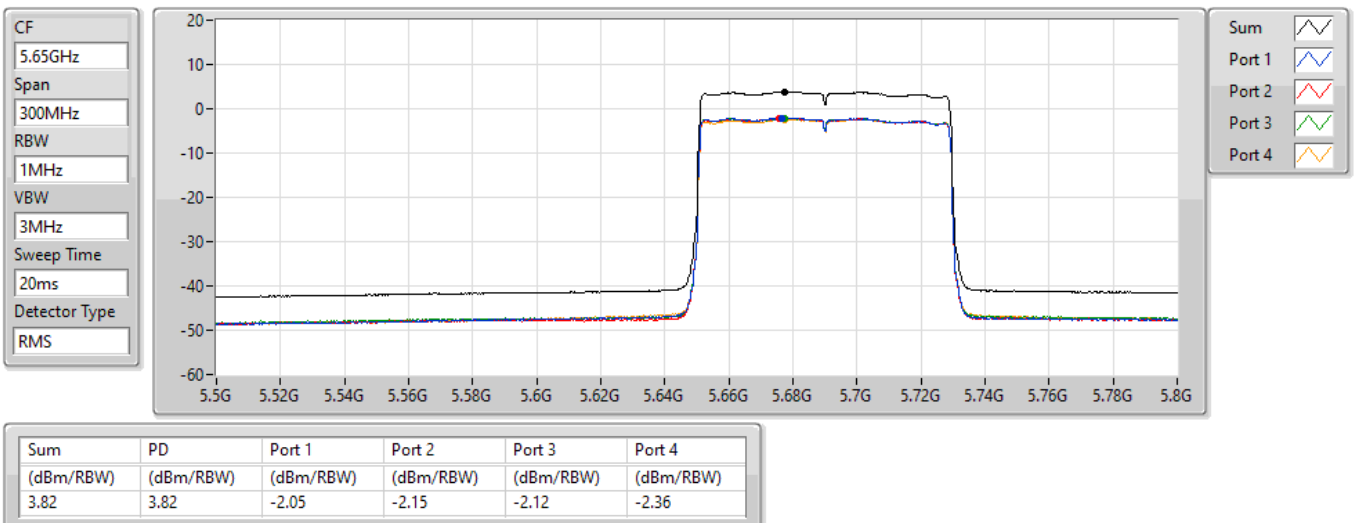


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

31/03/2022

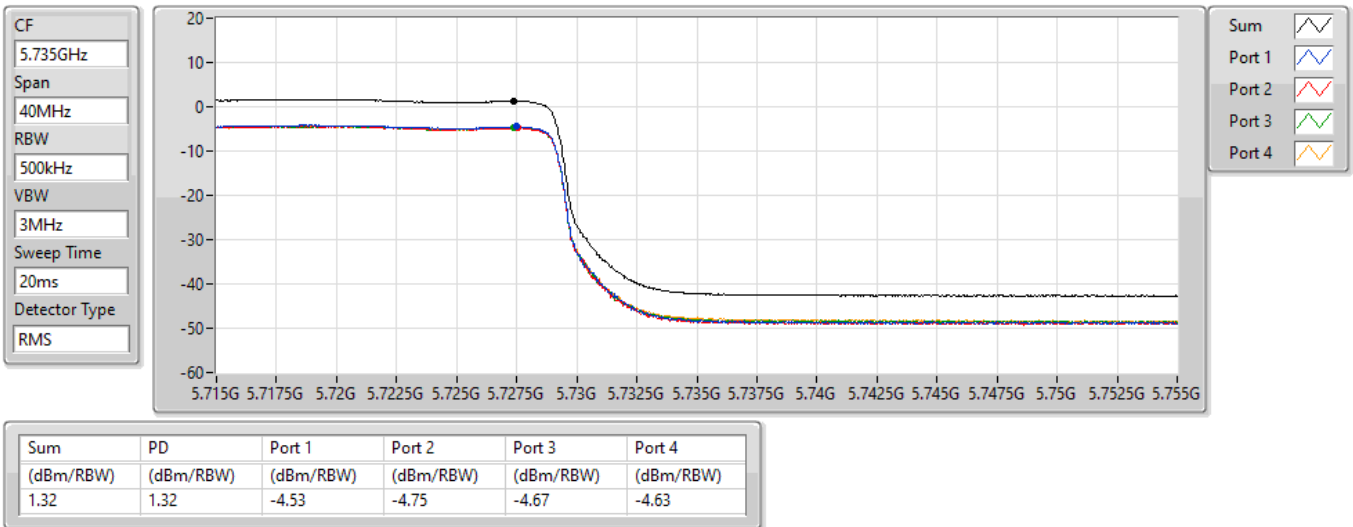


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

31/03/2022

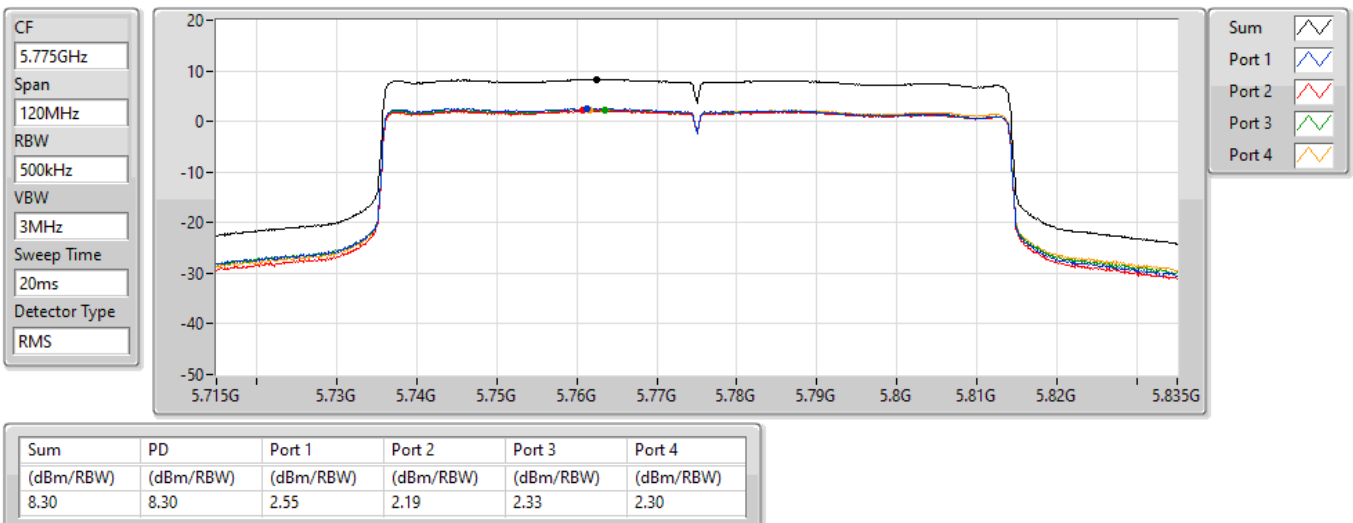


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

31/03/2022

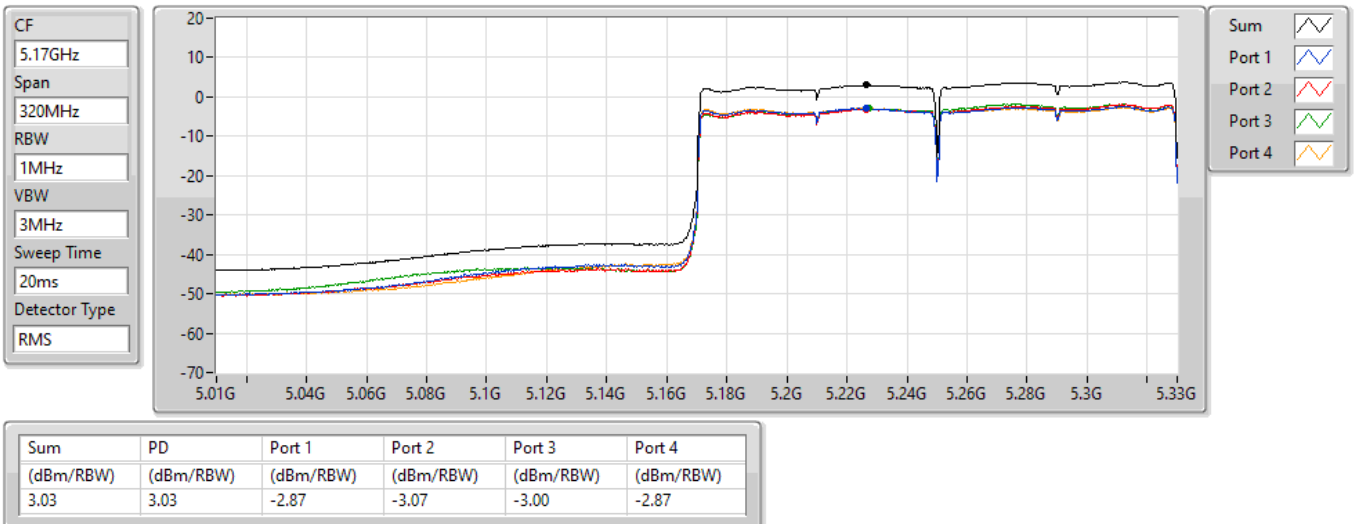


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.15-5.25GHz

PSD

31/03/2022

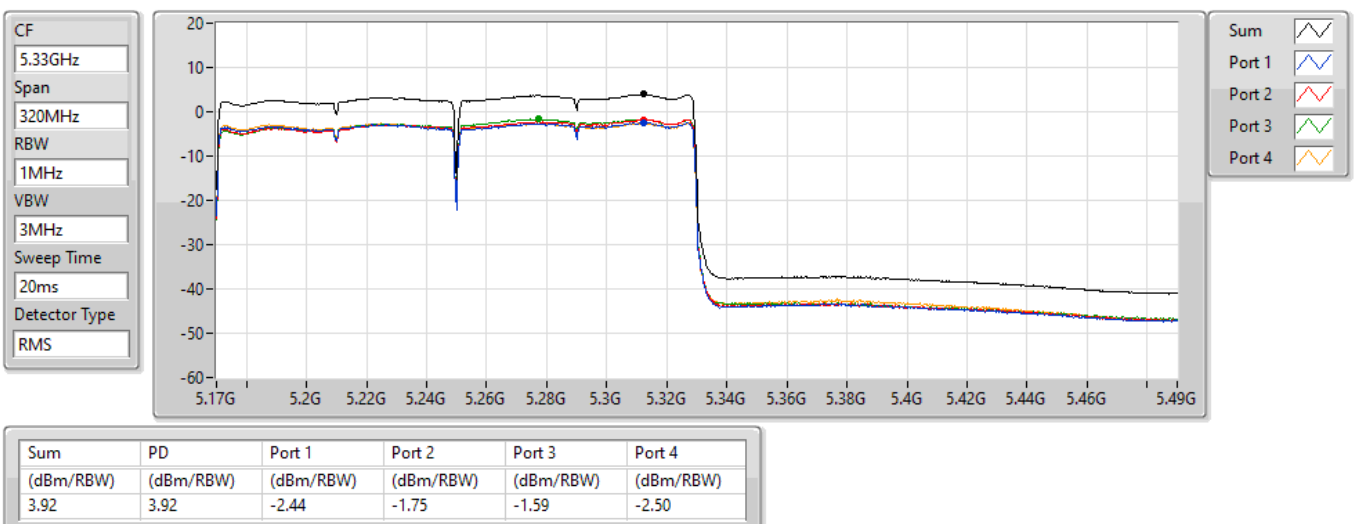


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

31/03/2022

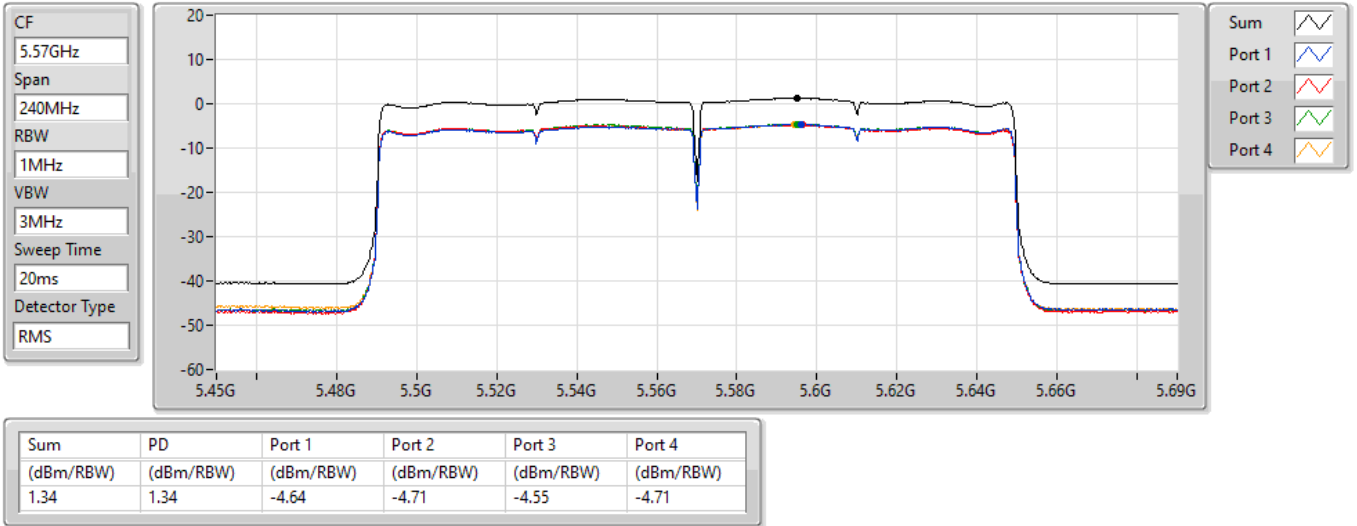


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5570MHz

PSD

31/03/2022



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	16.29
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	13.47
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	10.30
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	3.56
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	10.27
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	7.48
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	4.58
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	4.37
5.47-5.725GHz	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	10.26
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	7.69
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	4.52
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	1.98
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	14.69
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	11.91
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	9.21

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_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.93	10.08	9.83	10.25	9.77	15.95	17.00
5200MHz	Pass	3.93	10.44	10.10	10.72	10.10	16.29	17.00
5240MHz	Pass	3.93	10.29	10.05	10.62	9.73	16.14	17.00
5260MHz	Pass	3.57	4.18	4.12	4.46	3.99	10.15	11.00
5300MHz	Pass	3.57	4.29	4.19	4.26	4.07	10.17	11.00
5320MHz	Pass	3.57	4.26	4.34	4.39	4.28	10.27	11.00
5500MHz	Pass	3.55	4.37	4.14	4.32	4.23	10.26	11.00
5580MHz	Pass	3.55	4.20	4.02	4.03	4.05	10.02	11.00
5700MHz	Pass	3.55	4.19	4.27	3.85	4.42	10.14	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.55	4.13	4.25	3.91	4.26	10.12	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.80	2.36	2.48	2.17	2.63	8.40	30.00
5745MHz	Pass	3.80	8.69	8.57	8.52	8.94	14.64	30.00
5785MHz	Pass	3.80	8.75	8.66	8.49	8.98	14.68	30.00
5825MHz	Pass	3.80	8.66	8.61	8.48	9.13	14.69	30.00
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.93	6.64	6.30	6.83	6.53	12.51	17.00
5230MHz	Pass	3.93	7.65	7.12	7.94	7.23	13.47	17.00
5270MHz	Pass	3.57	1.46	1.47	1.87	1.34	7.48	11.00
5310MHz	Pass	3.57	1.24	1.55	1.35	1.34	7.35	11.00
5510MHz	Pass	3.55	1.16	1.52	1.51	1.35	7.36	11.00
5550MHz	Pass	3.55	1.24	1.60	1.29	1.18	7.31	11.00
5670MHz	Pass	3.55	1.34	1.49	0.85	1.23	7.21	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.55	1.73	1.72	1.56	1.79	7.69	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.80	-0.32	-0.35	-0.59	-0.28	5.59	30.00
5755MHz	Pass	3.80	6.06	5.84	5.85	5.91	11.85	30.00
5795MHz	Pass	3.80	6.17	5.80	5.66	6.04	11.91	30.00
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.93	4.42	4.11	4.67	4.38	10.30	17.00
5290MHz	Pass	3.57	-1.43	-1.16	-1.38	-1.58	4.58	11.00
5530MHz	Pass	3.55	-1.69	-1.58	-1.73	-1.56	4.30	11.00
5610MHz	Pass	3.55	-1.31	-1.52	-1.79	-1.31	4.51	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.55	-1.35	-1.52	-1.75	-1.27	4.52	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.80	-3.86	-4.04	-4.31	-3.58	2.04	30.00
5775MHz	Pass	3.80	3.48	3.01	3.02	3.45	9.21	30.00
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.93	-2.26	-2.70	-2.53	-2.33	3.56	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	3.57	-1.70	-1.46	-1.12	-2.00	4.37	11.00
5570MHz	Pass	3.55	-3.75	-4.11	-4.27	-3.99	1.98	11.00

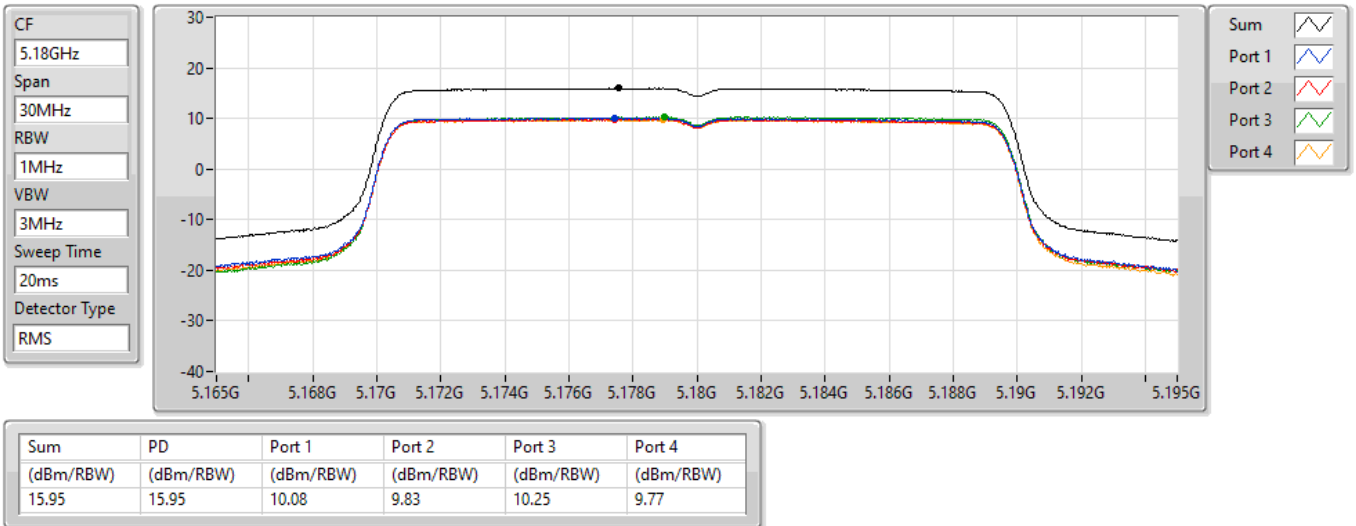
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5180MHz

31/03/2022

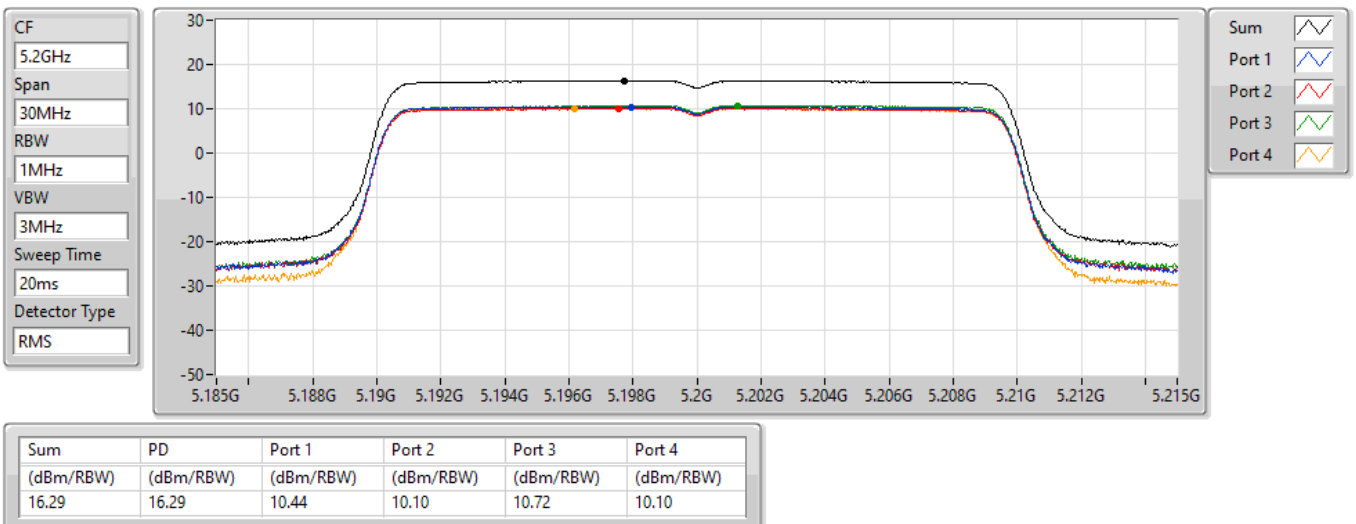


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5200MHz

31/03/2022

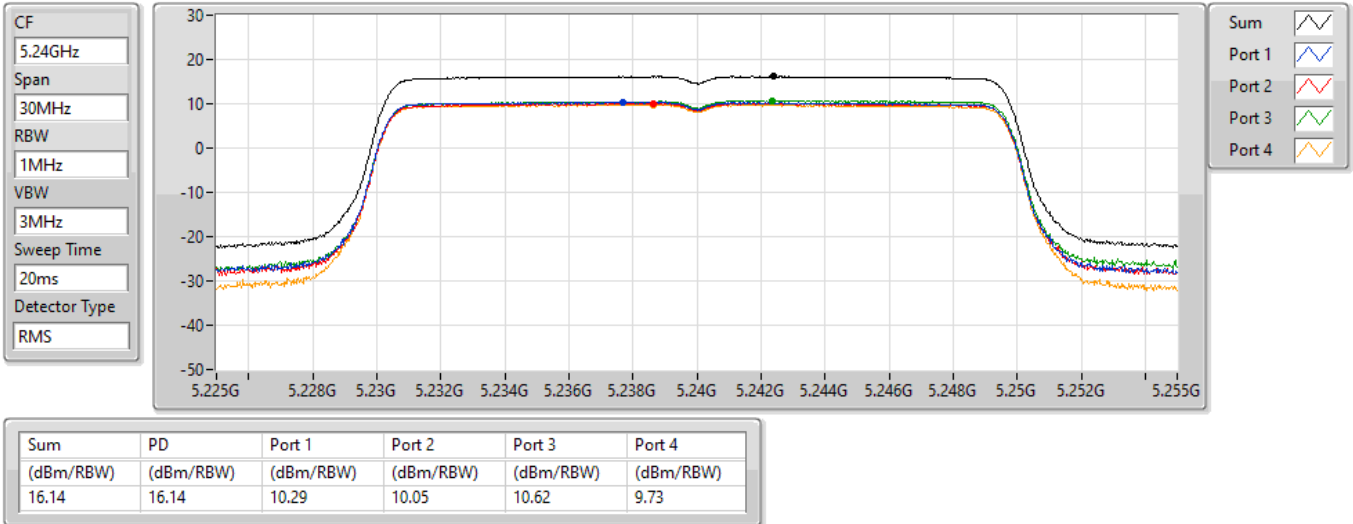


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5240MHz

PSD

31/03/2022

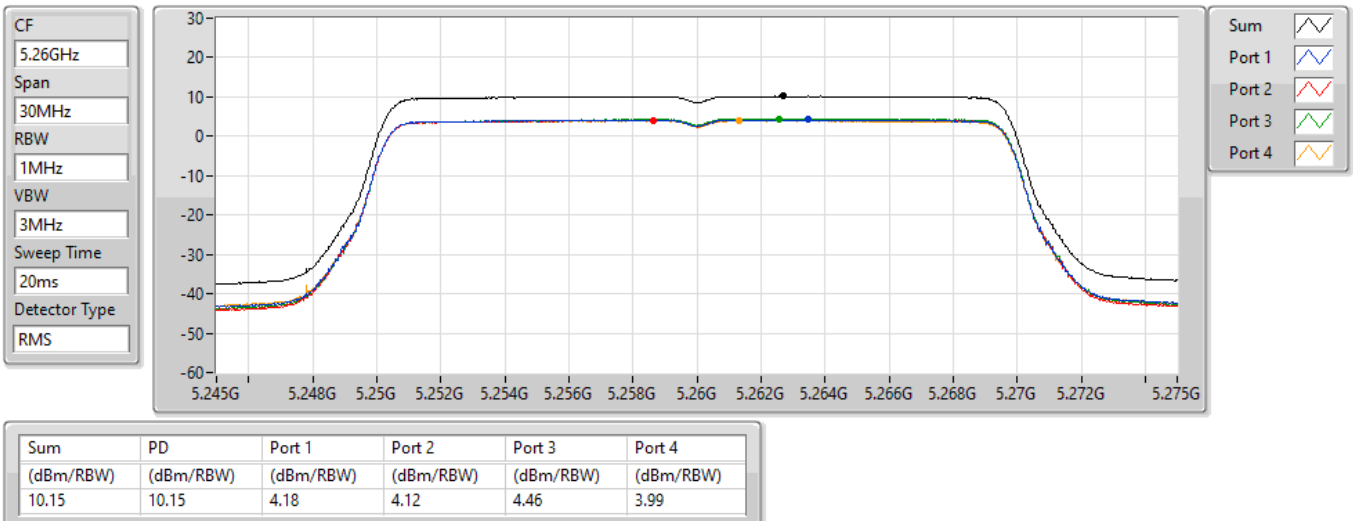


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5260MHz

PSD

31/03/2022

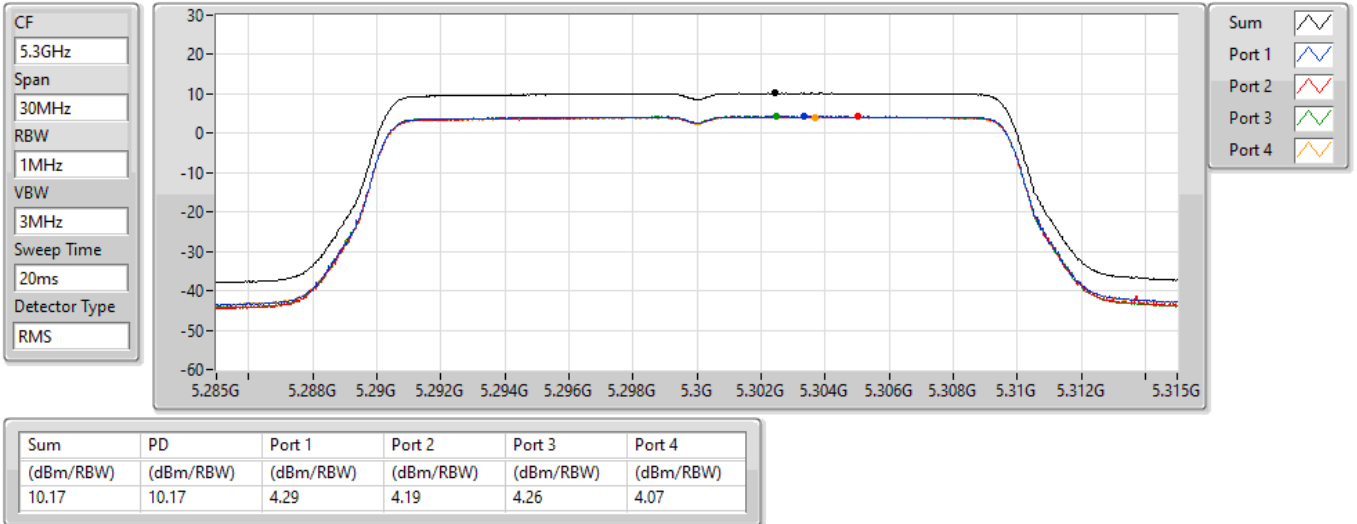


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5300MHz

31/03/2022

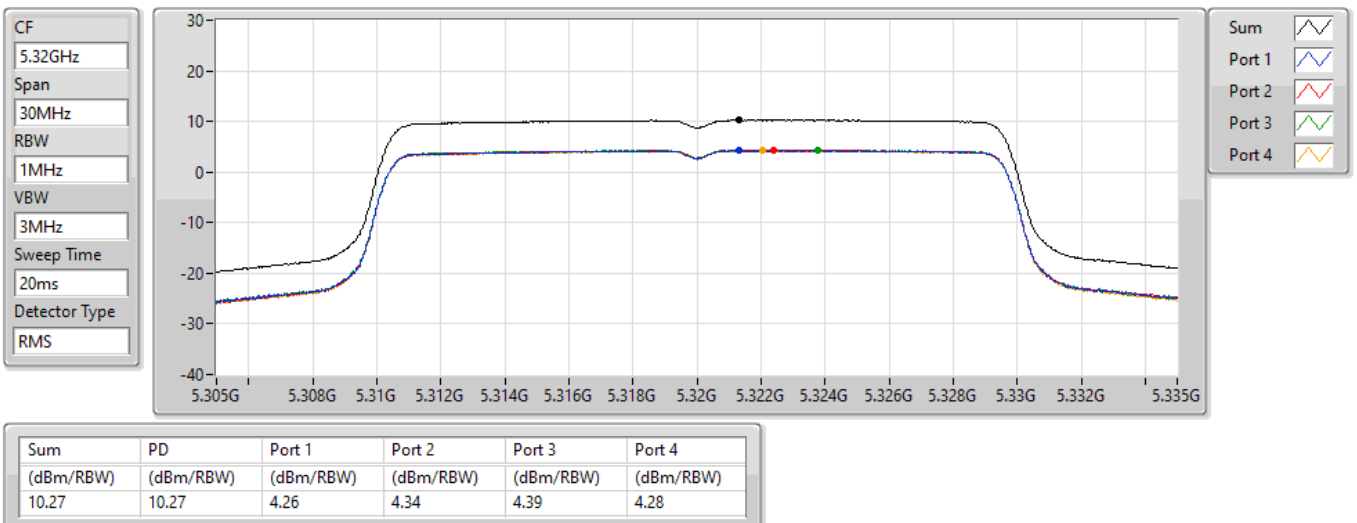


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5320MHz

31/03/2022

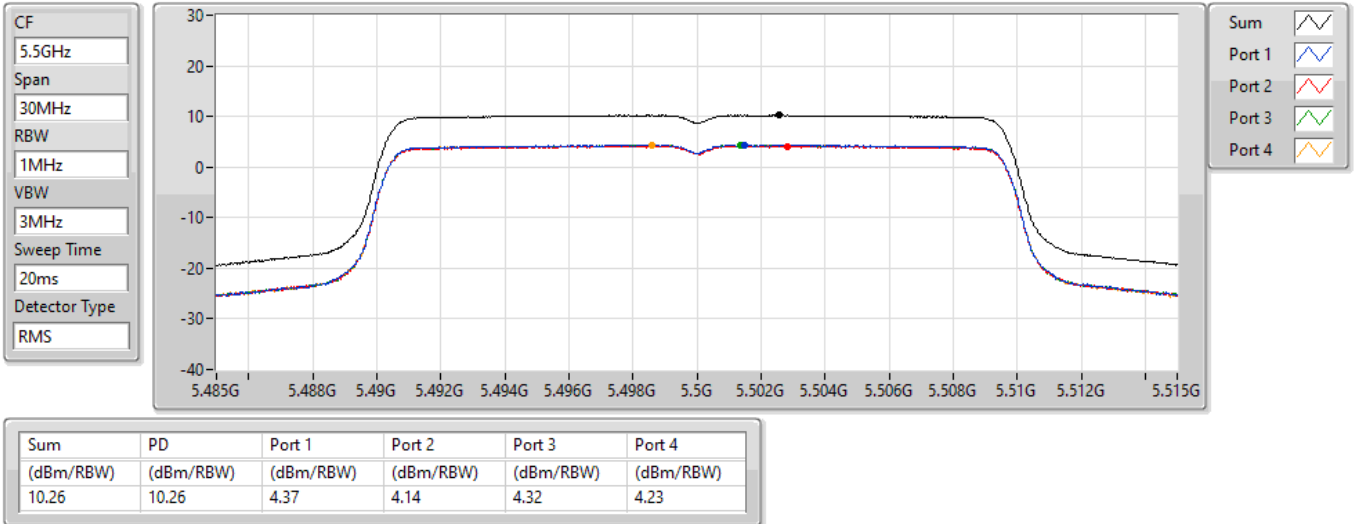


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5500MHz

31/03/2022

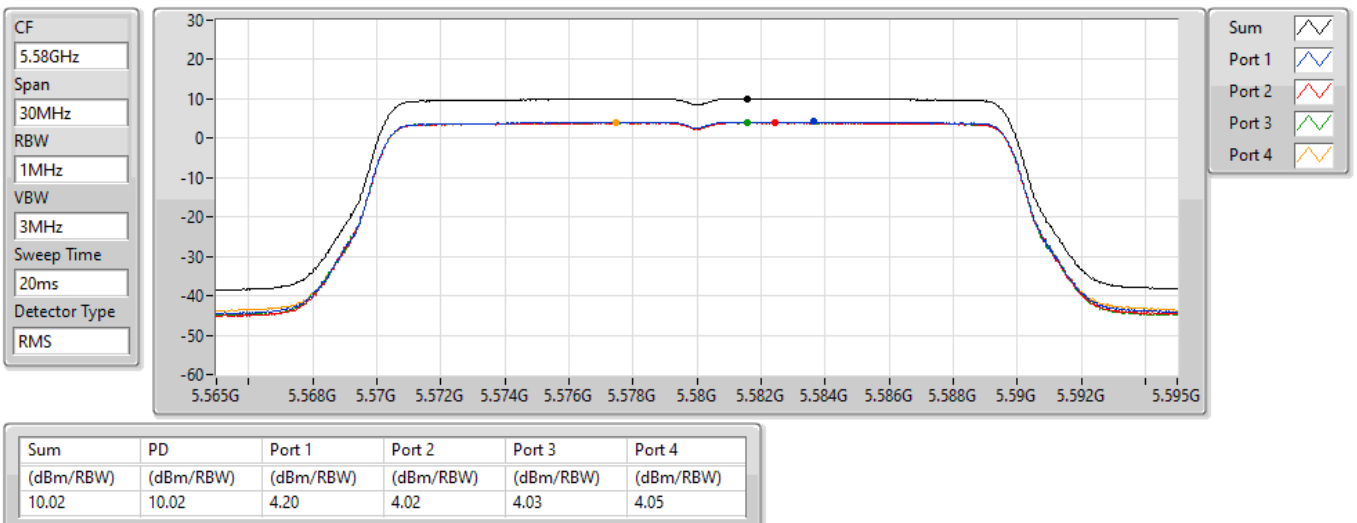


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5580MHz

31/03/2022

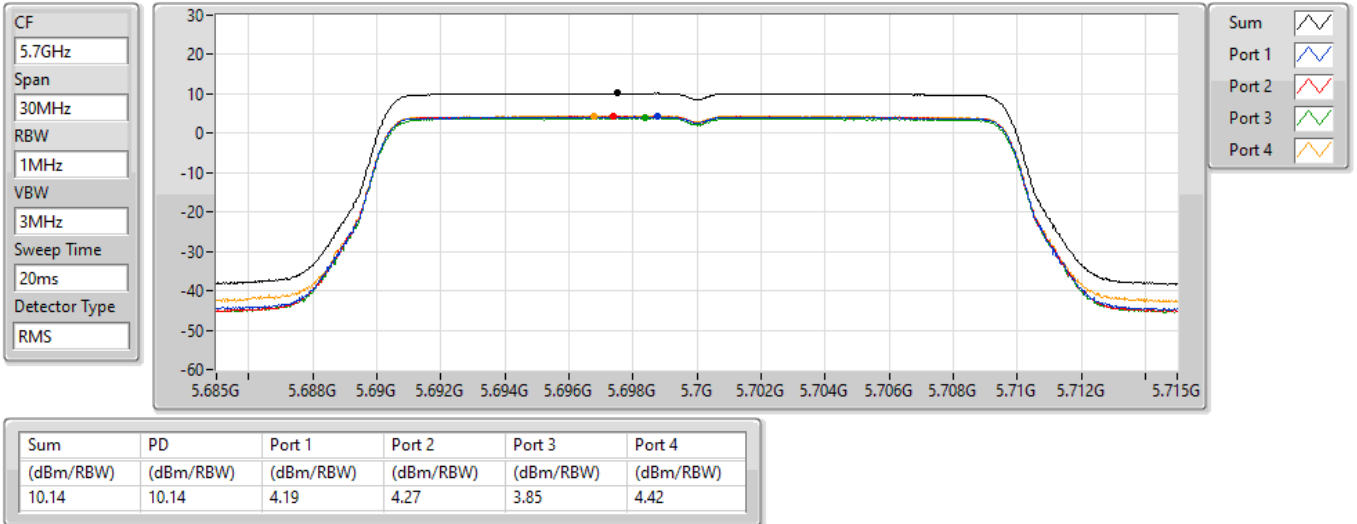


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5700MHz

PSD

31/03/2022

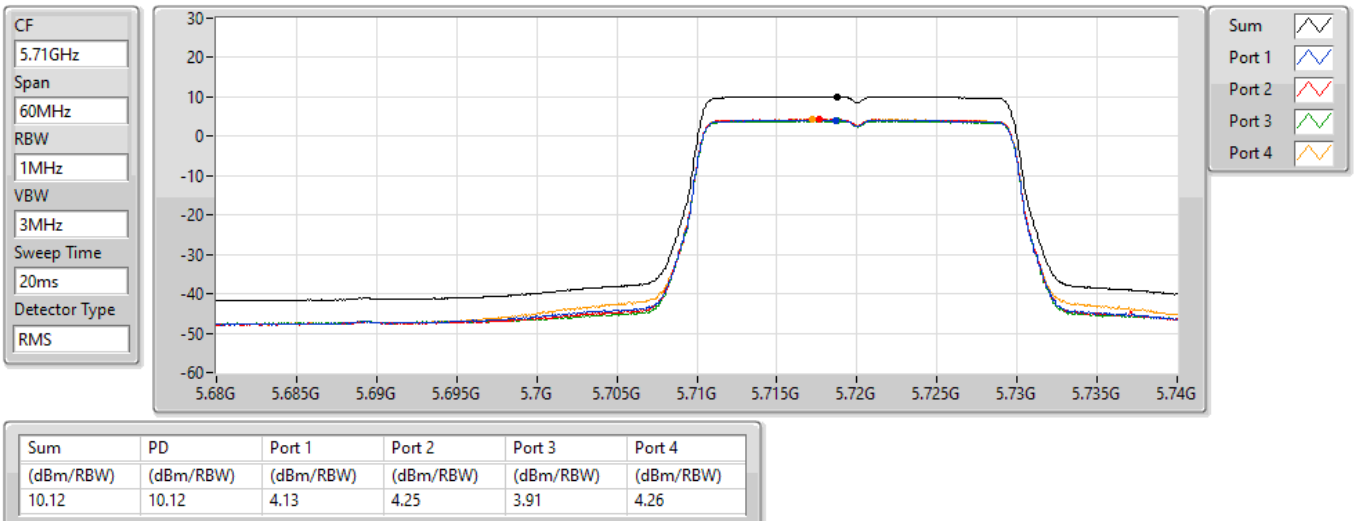


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

31/03/2022

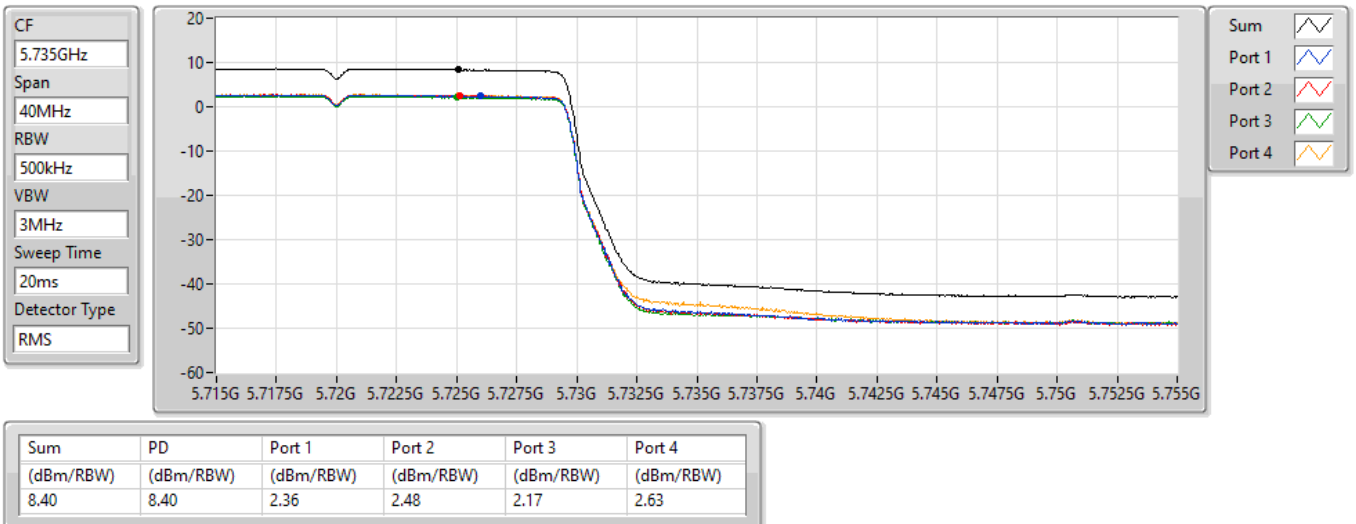


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

31/03/2022

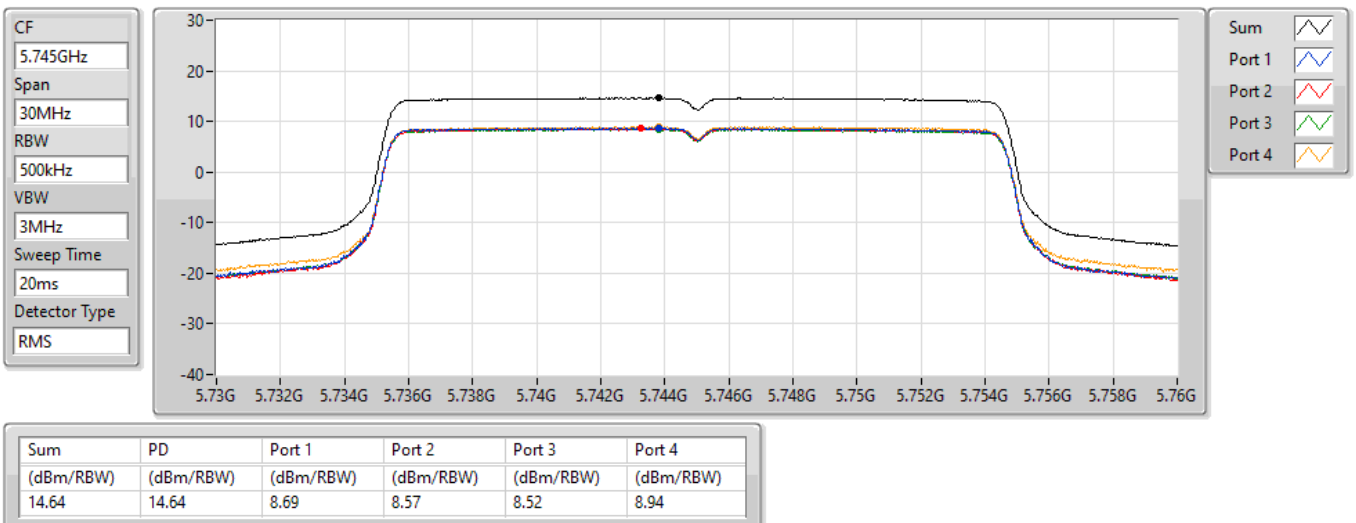


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5745MHz

PSD

31/03/2022

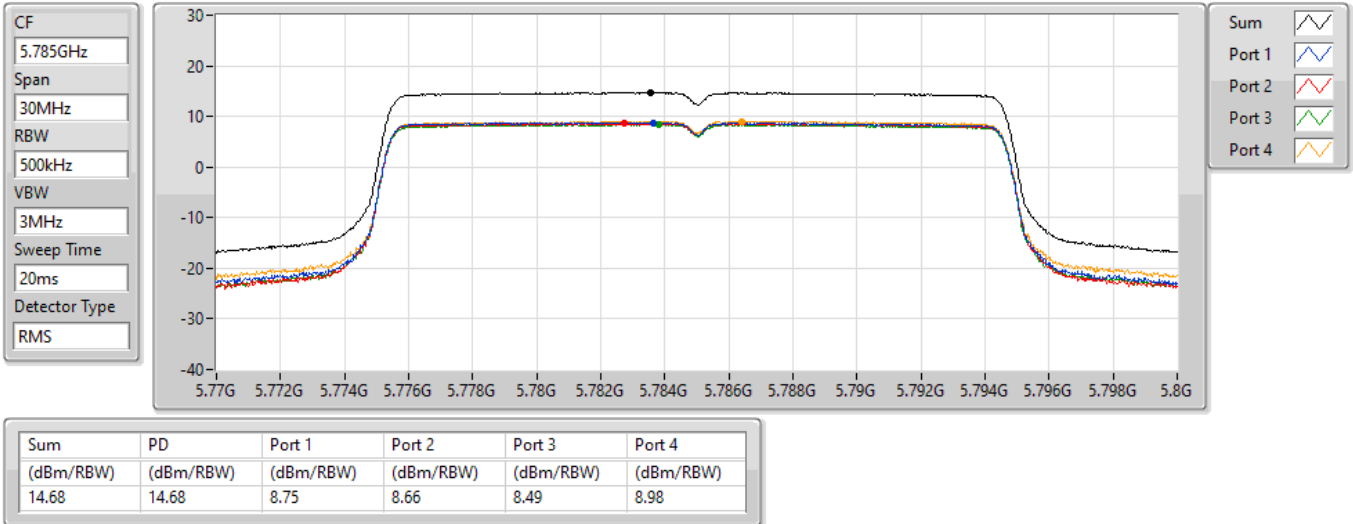


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5785MHz

PSD

31/03/2022

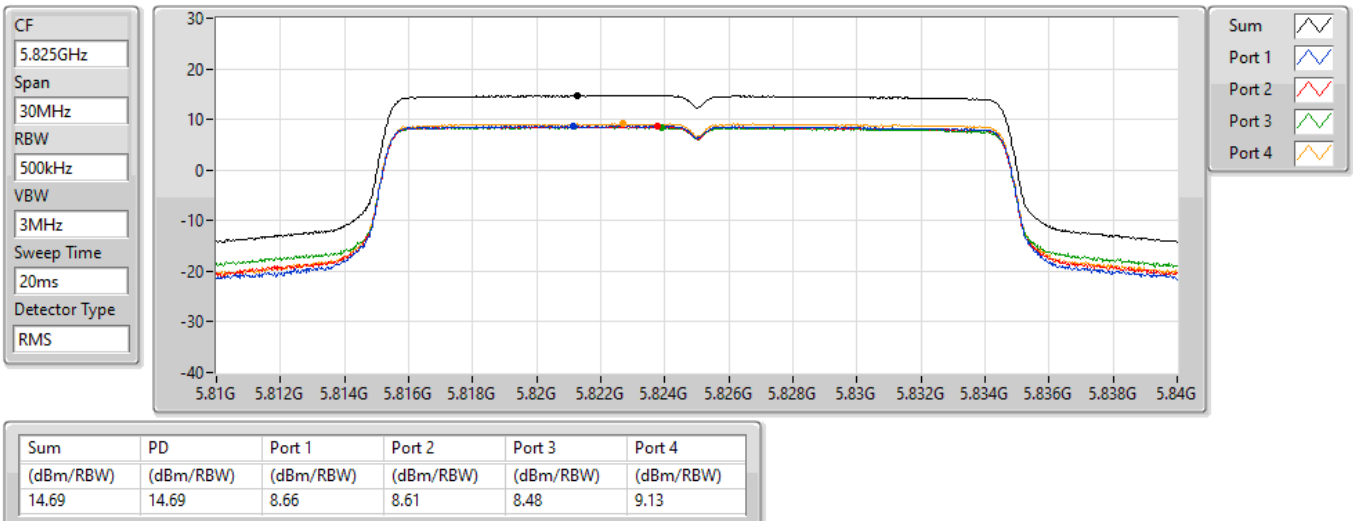


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

5825MHz

PSD

31/03/2022

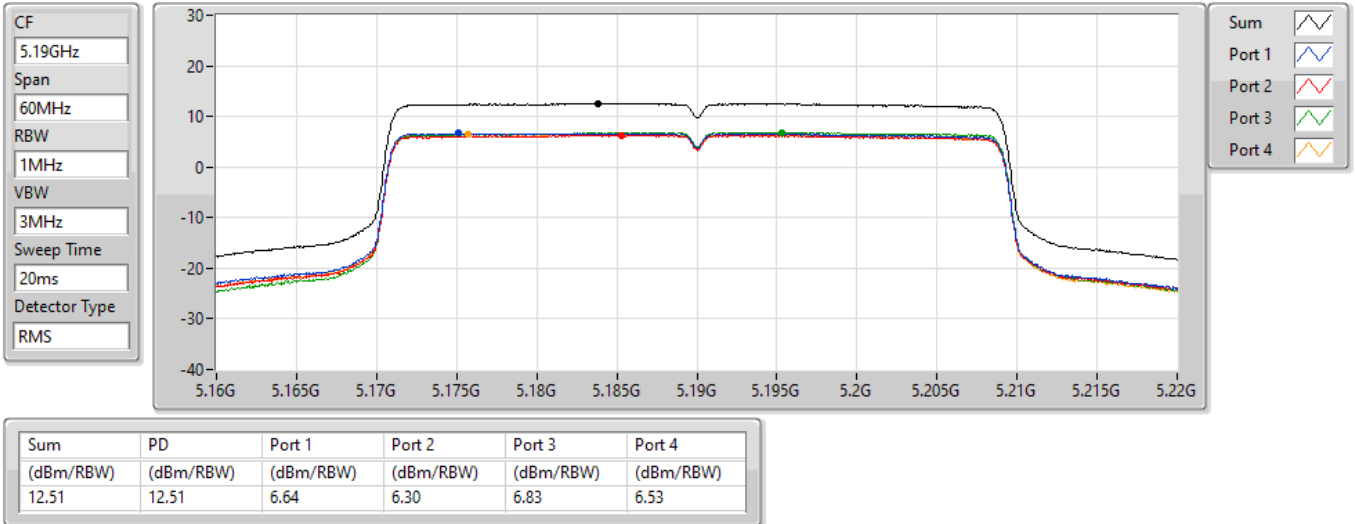


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5190MHz

31/03/2022

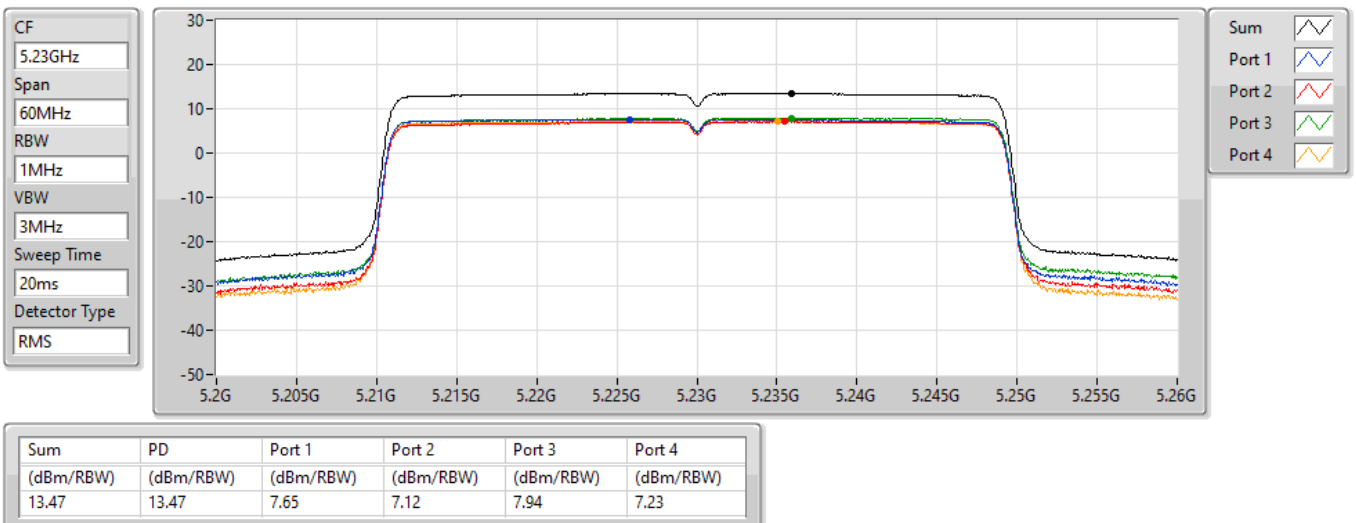


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5230MHz

31/03/2022

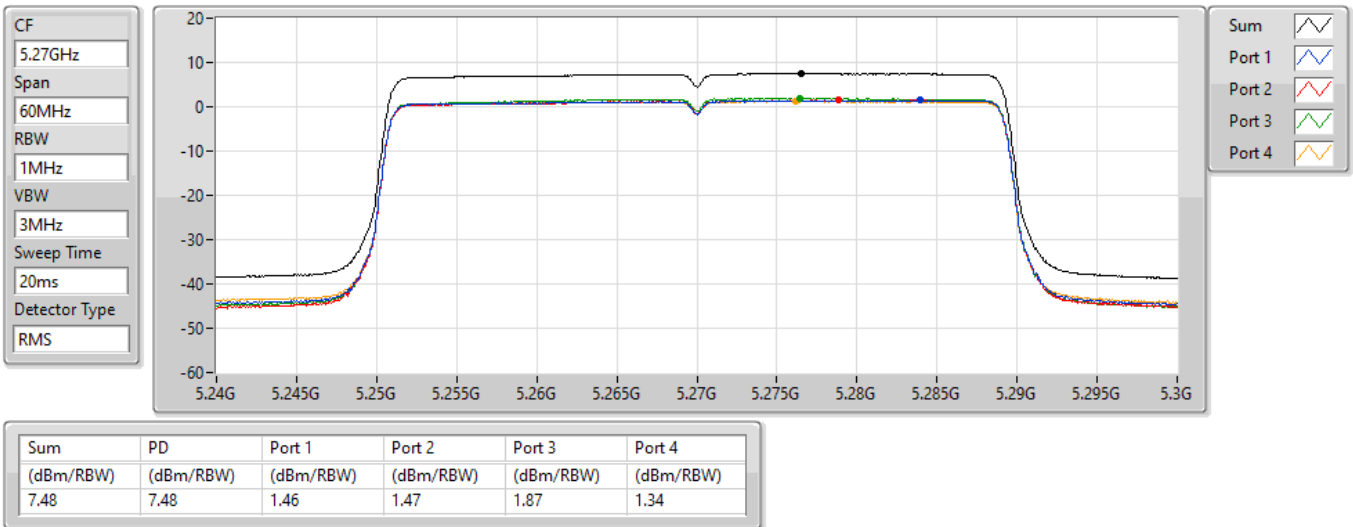


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5270MHz

31/03/2022

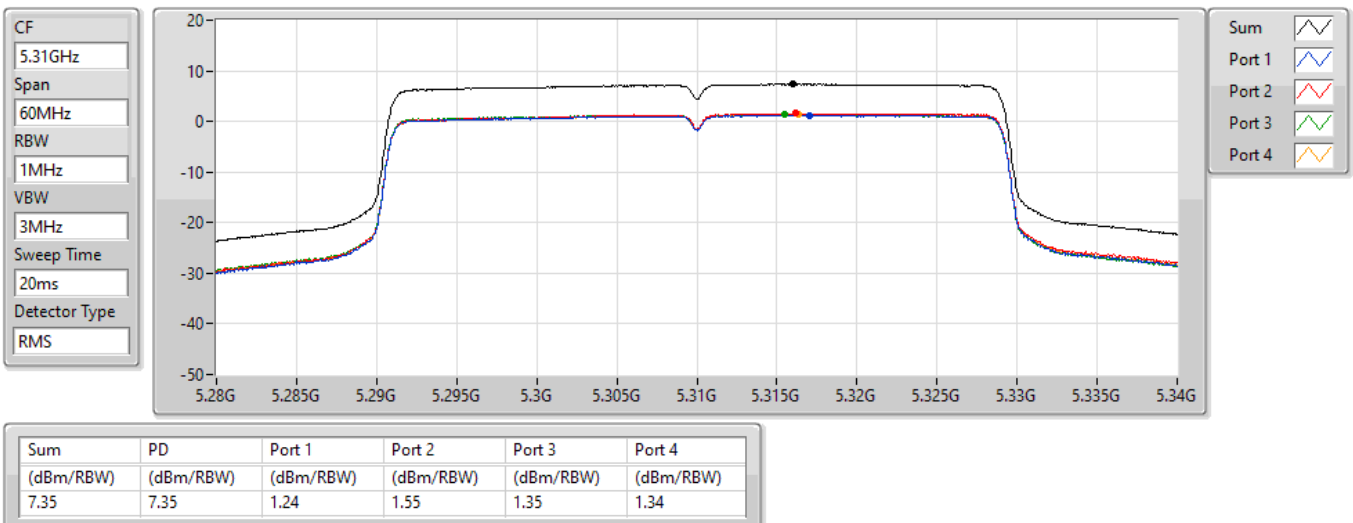


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5310MHz

31/03/2022

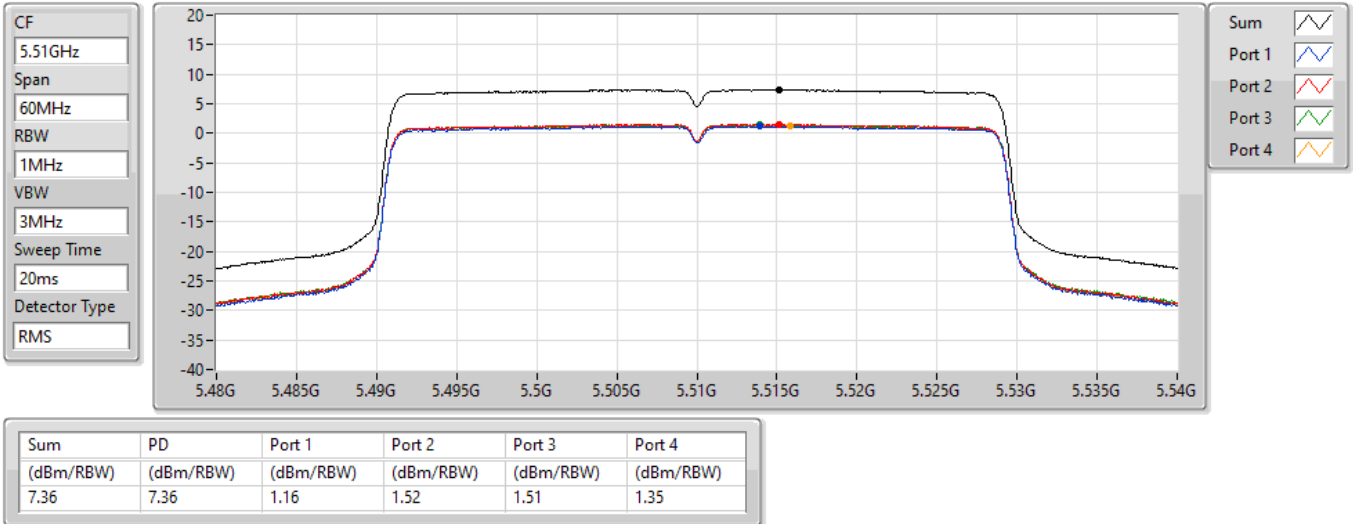


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5510MHz

31/03/2022

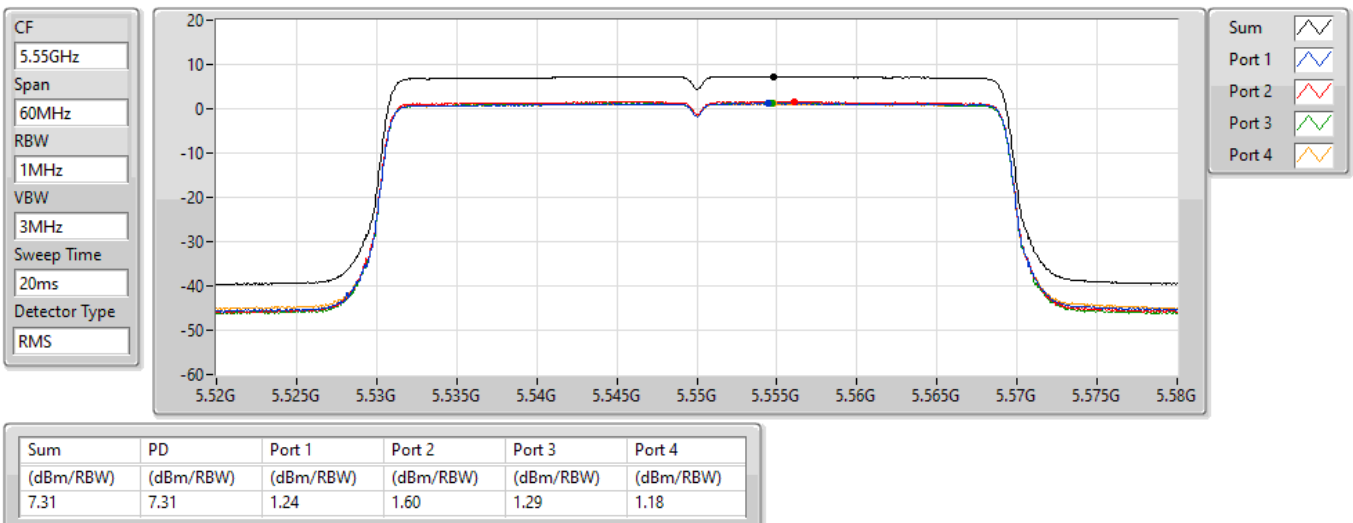


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5550MHz

31/03/2022

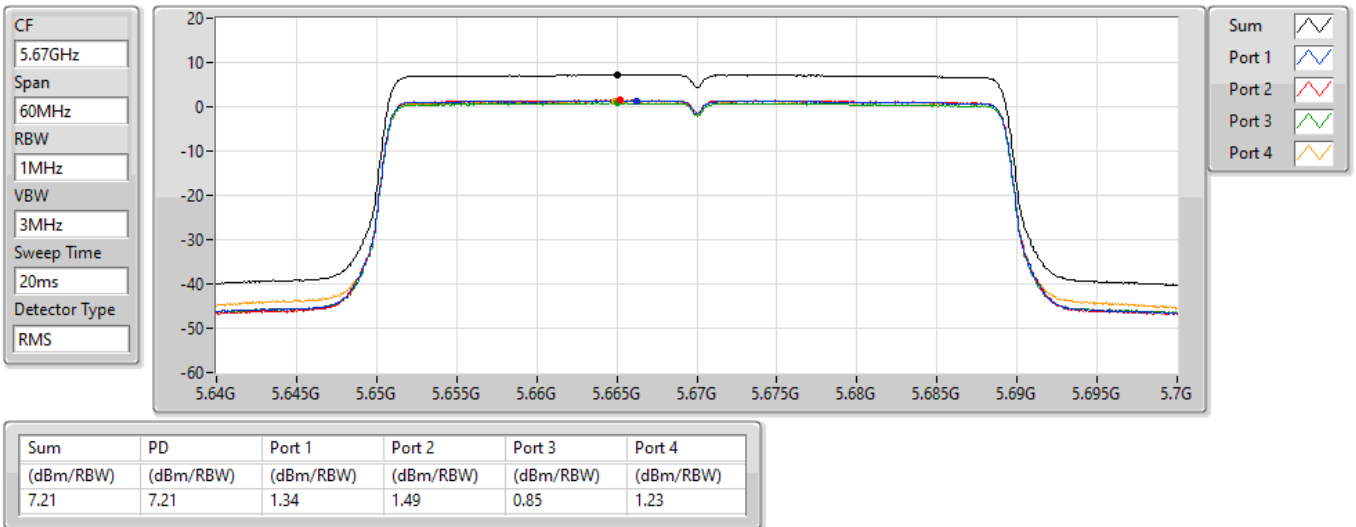


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5670MHz

31/03/2022

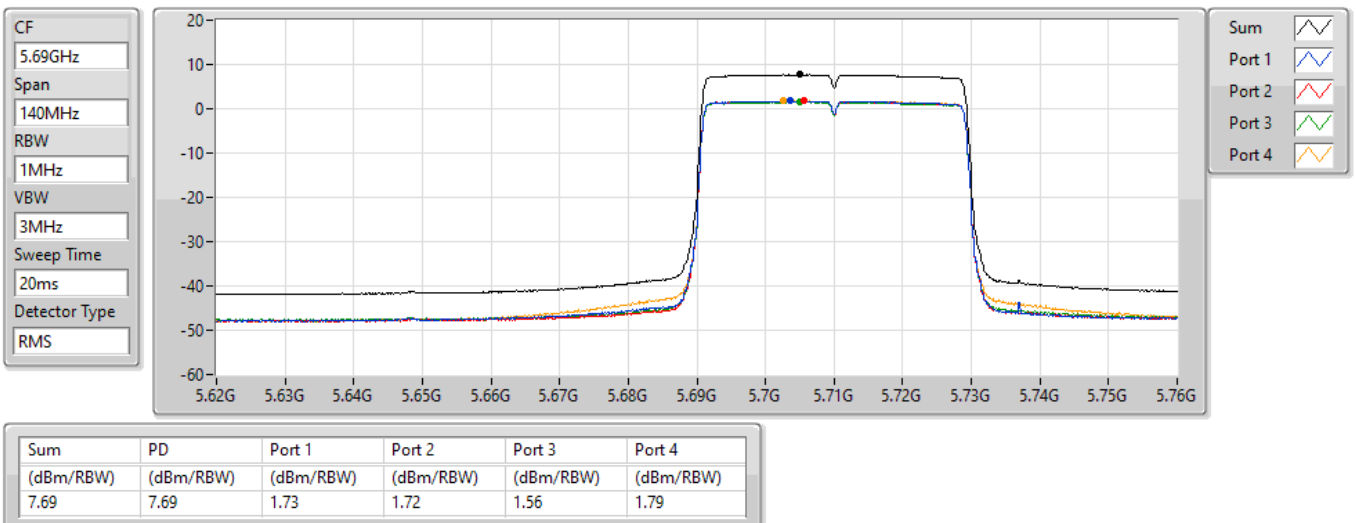


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

31/03/2022

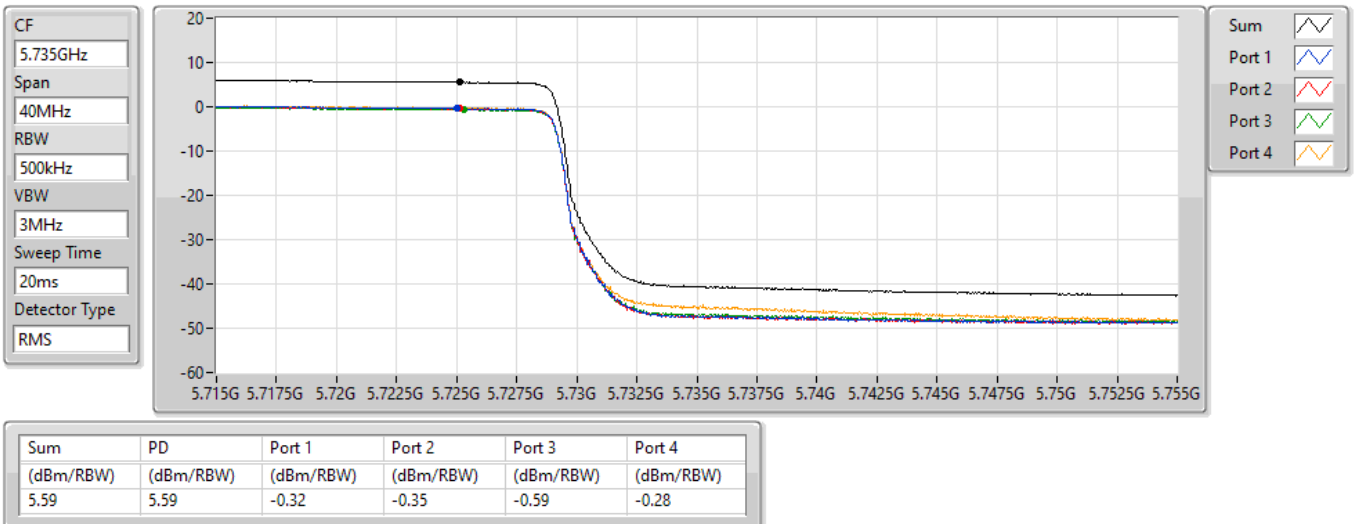


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

31/03/2022

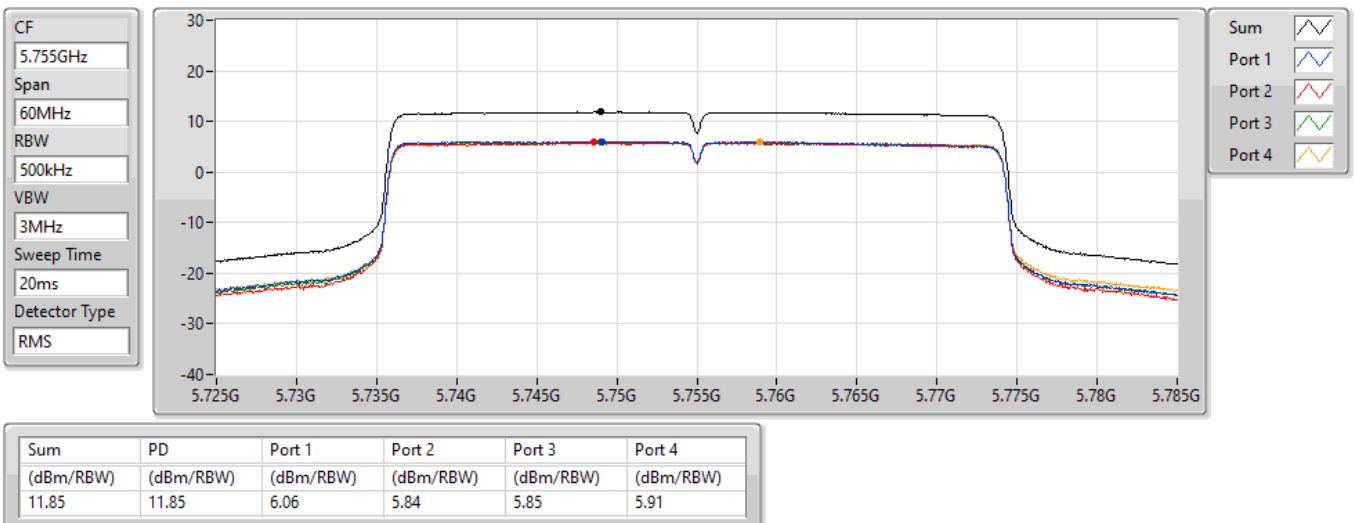


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

5755MHz

PSD

31/03/2022

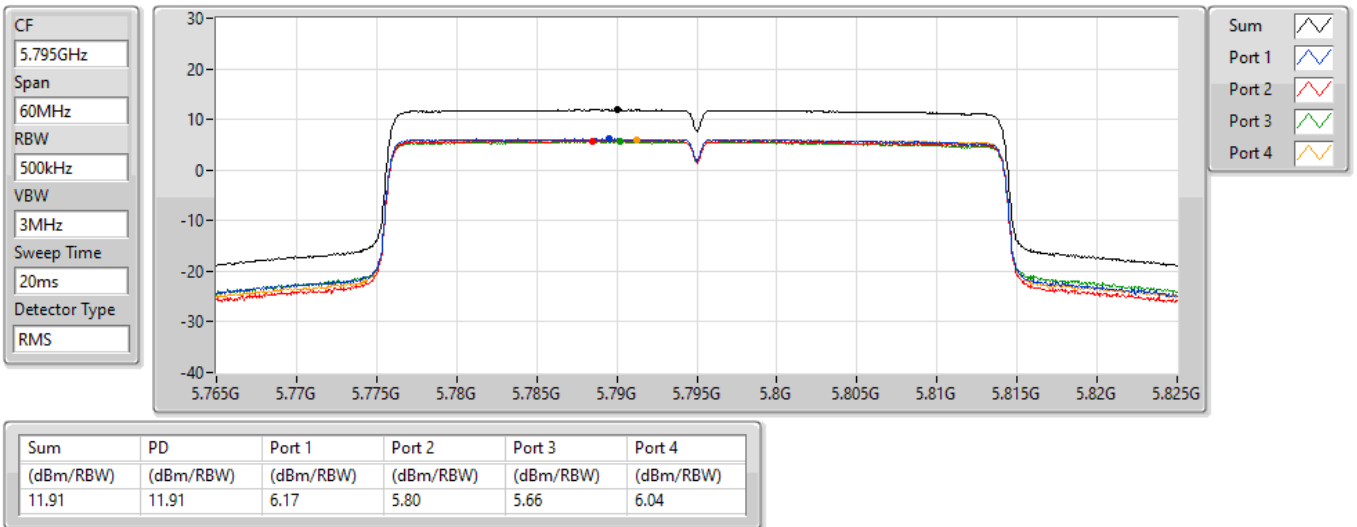


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5795MHz

31/03/2022

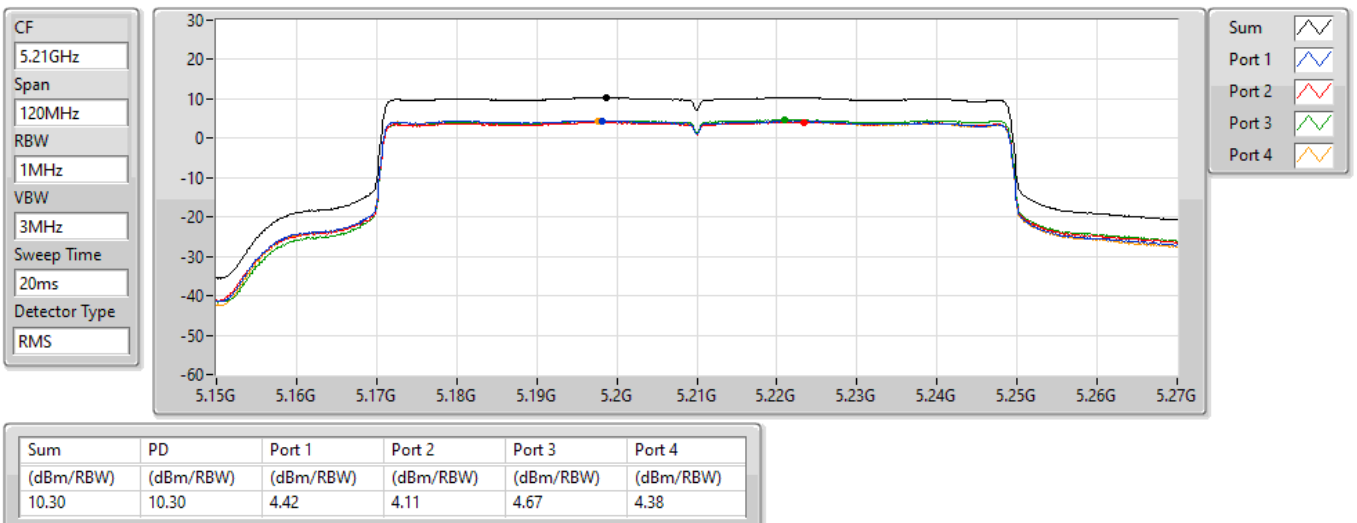


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

PSD

5210MHz

31/03/2022

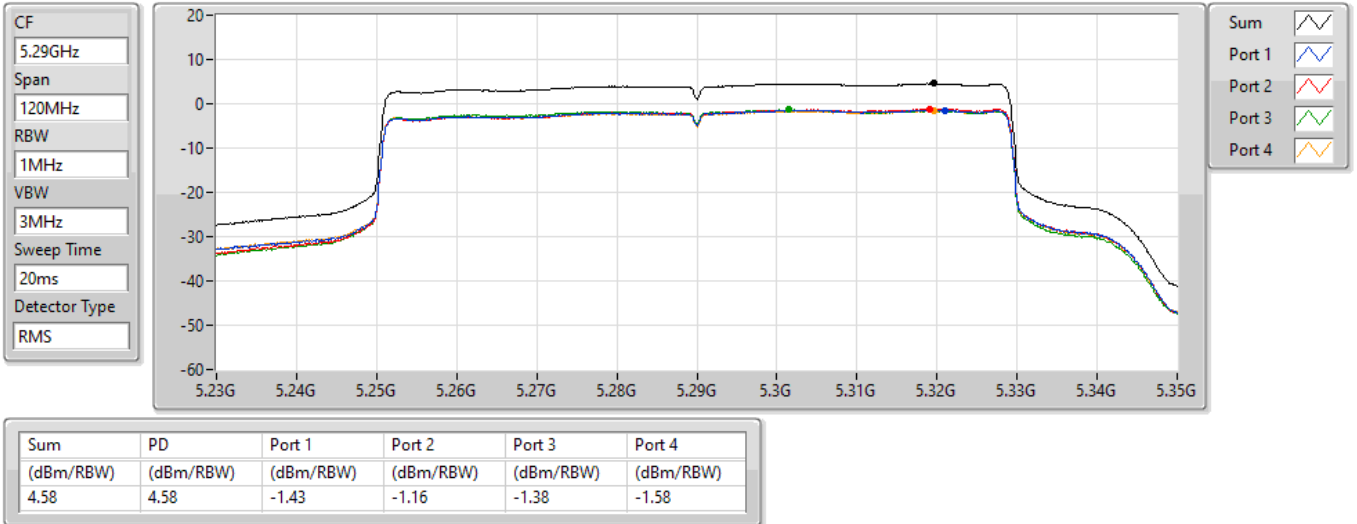


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

PSD

5290MHz

31/03/2022

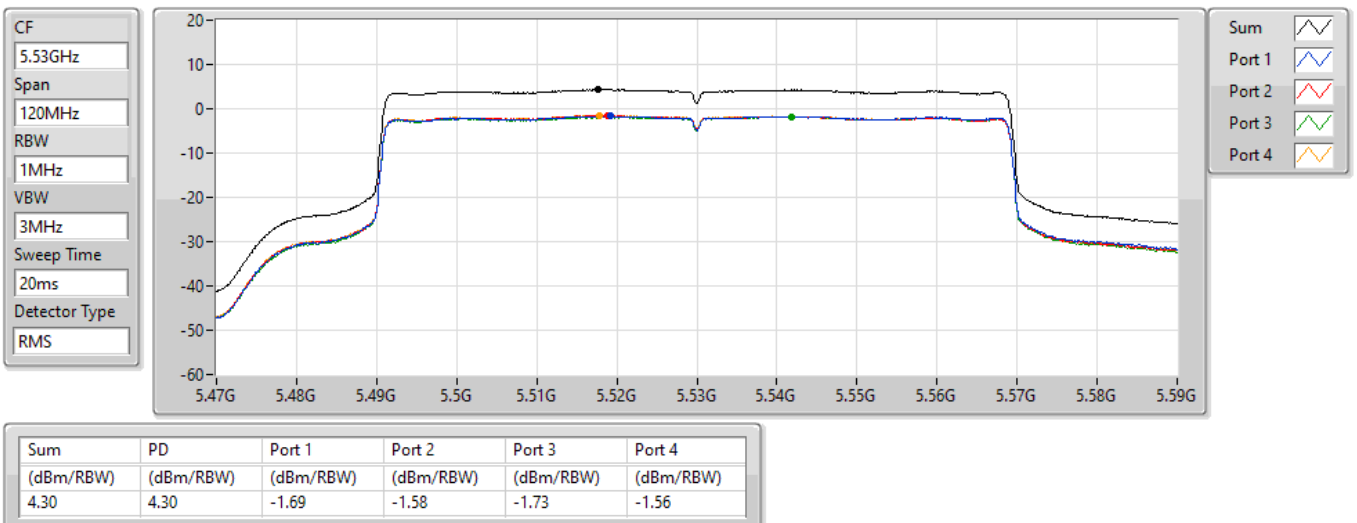


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

PSD

5530MHz

31/03/2022

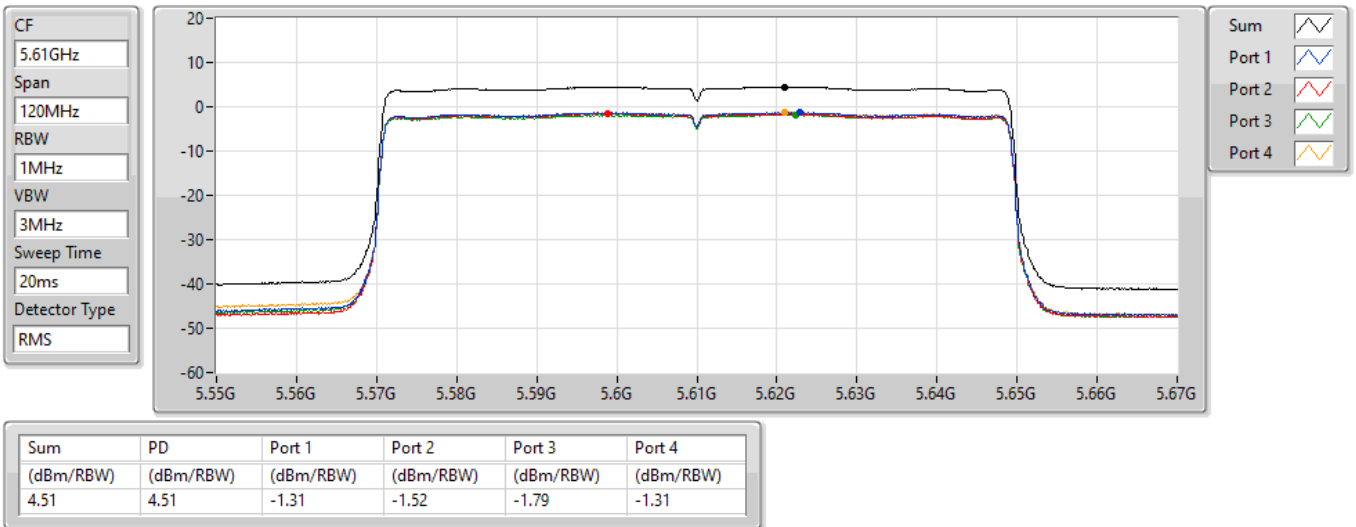


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

PSD

5610MHz

31/03/2022

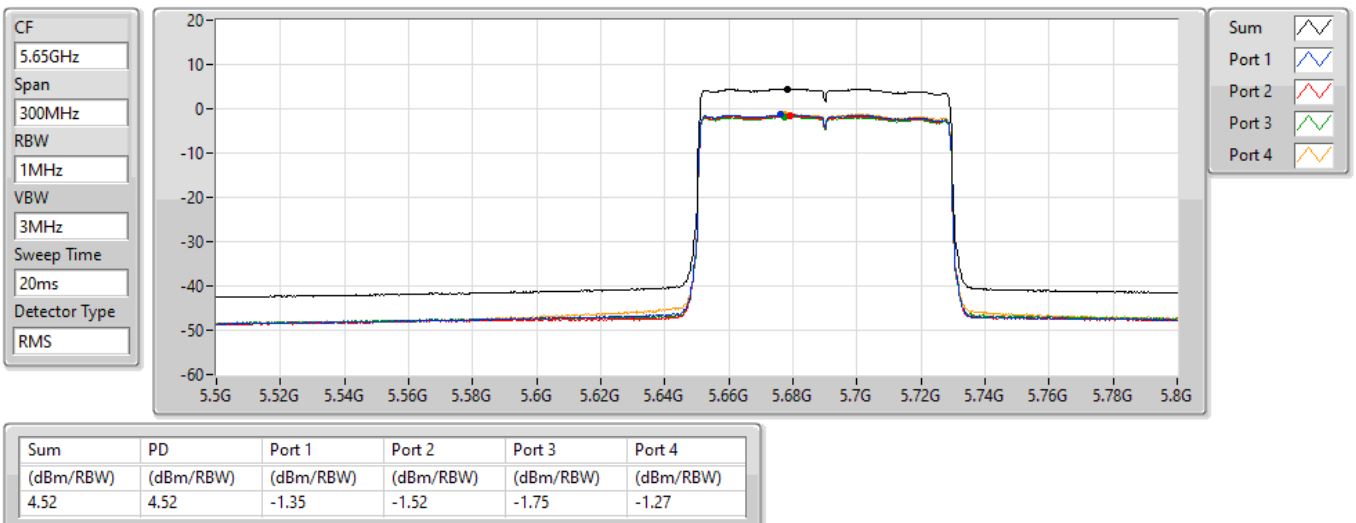


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

31/03/2022

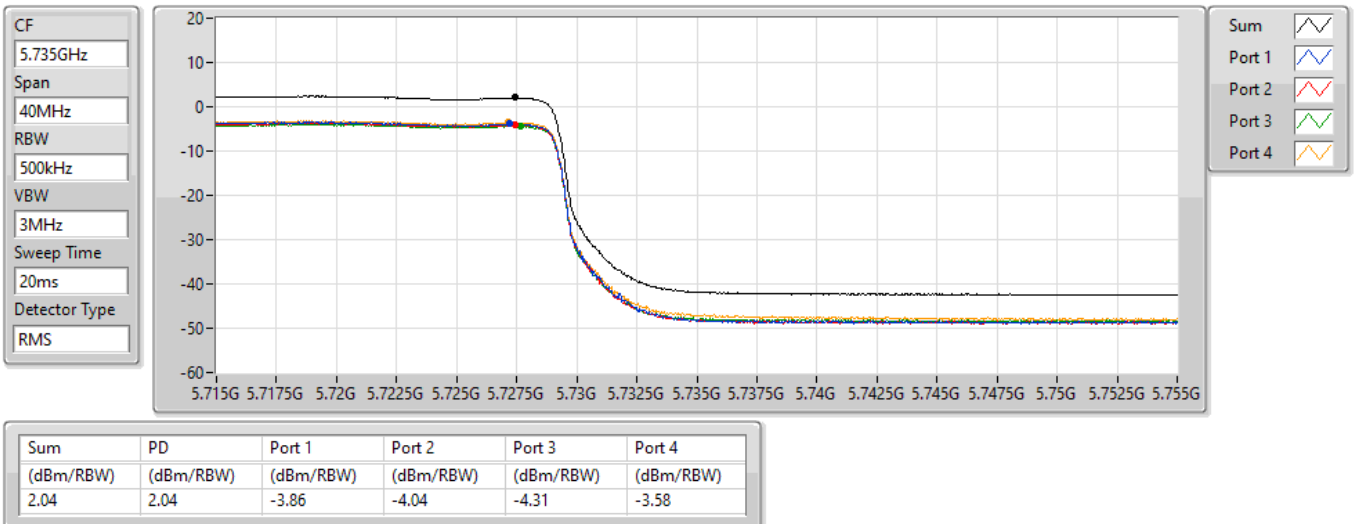


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

31/03/2022

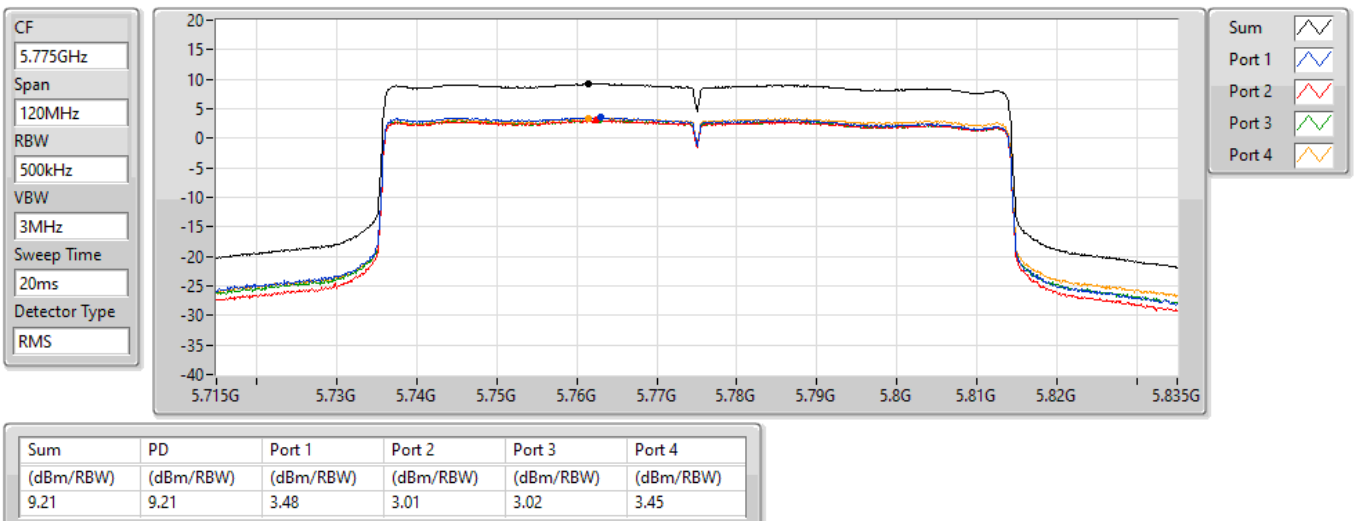


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

5775MHz

PSD

31/03/2022

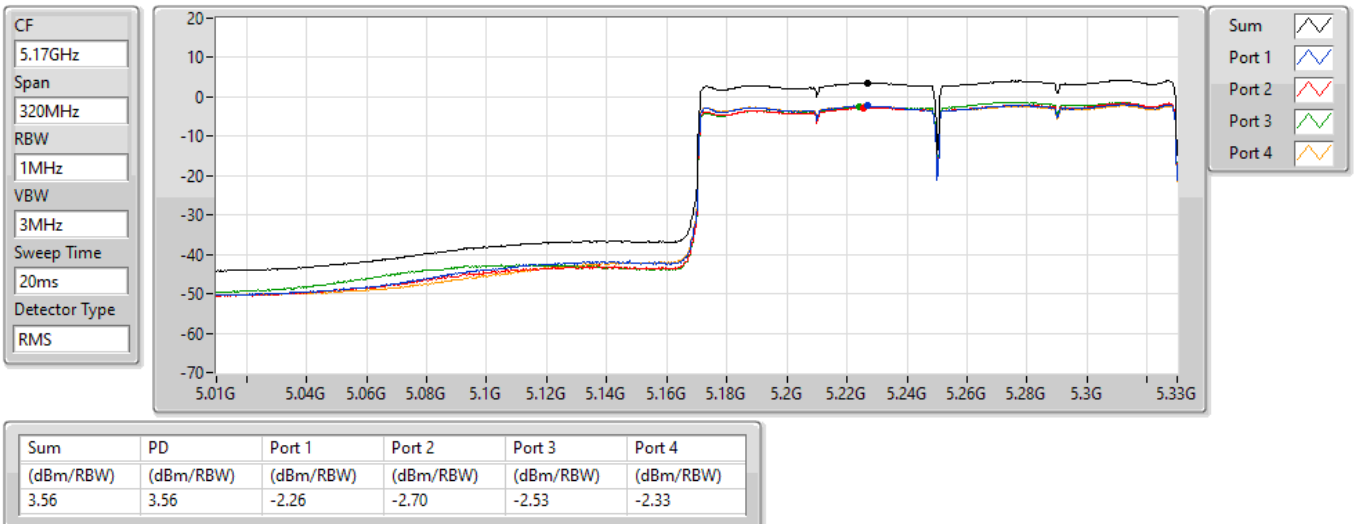


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

5250MHz Straddle 5.15-5.25GHz

PSD

31/03/2022

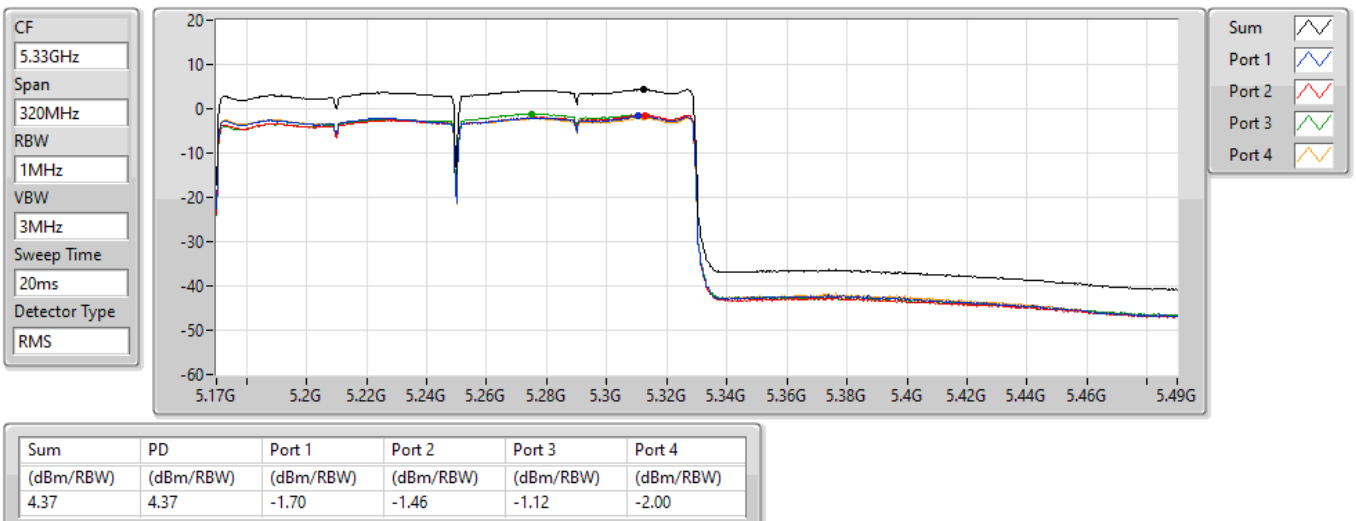


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

31/03/2022

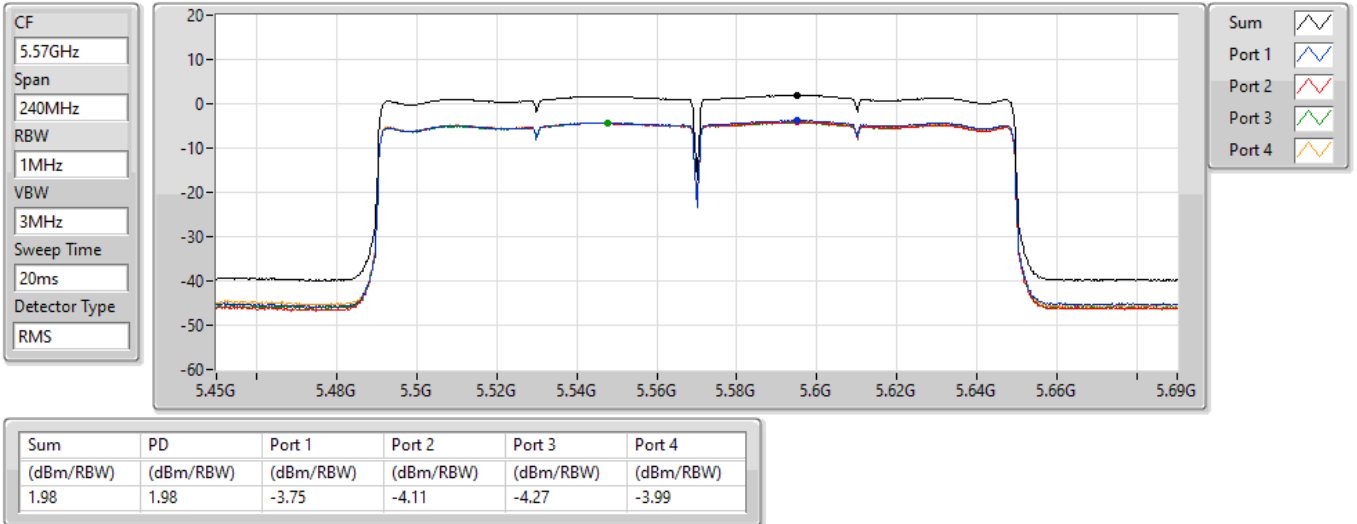


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

5570MHz

PSD

31/03/2022





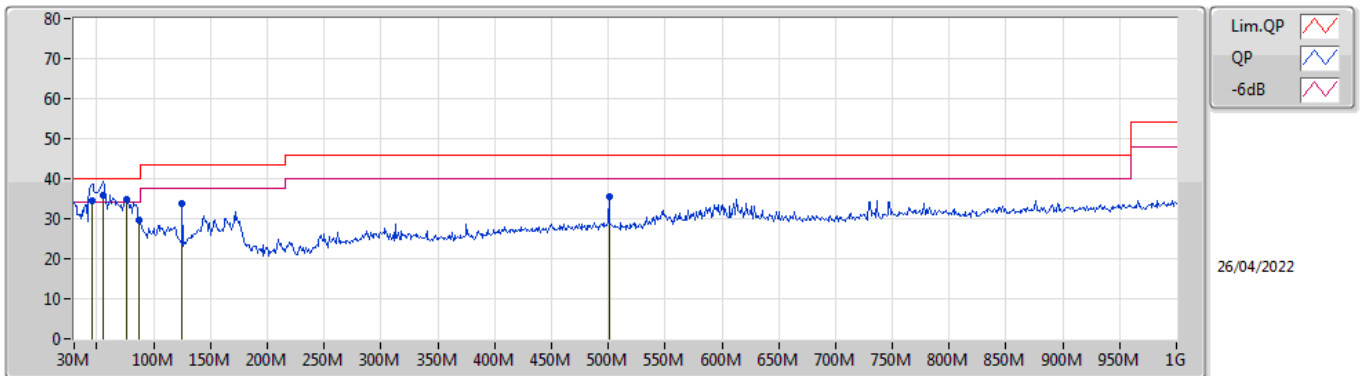
Radiated Emissions below 1GHz

Appendix E.1

Summary

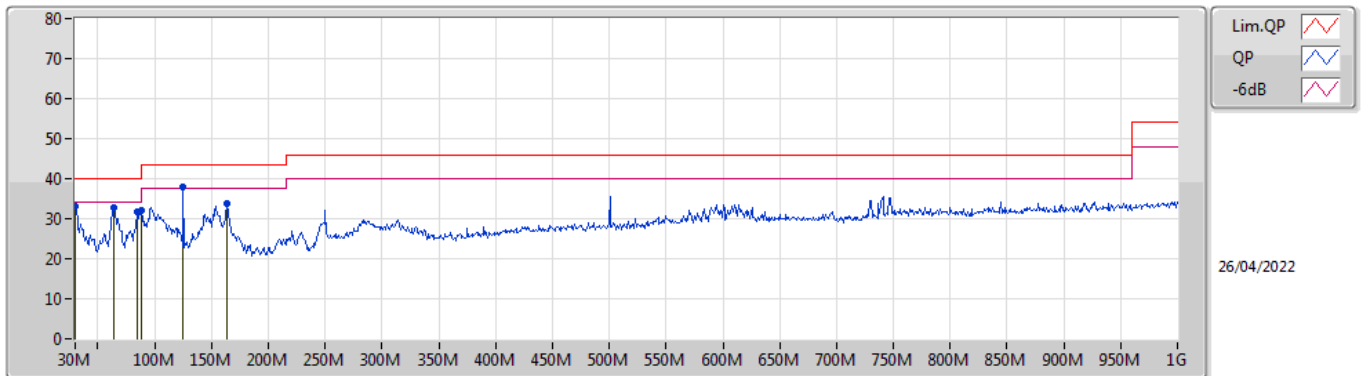
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	55.22M	35.97	40.00	-4.03	Vertical

Mode 1



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	45.52M	34.56	40.00	-5.44	-10.94	3	Vertical	40	1.00	-	45.50	16.15	1.39	28.48
QP	55.22M	35.97	40.00	-4.03	-14.43	3	Vertical	228	1.00	"Worst"	50.40	12.75	1.31	28.49
PK	75.59M	34.93	40.00	-5.07	-14.32	3	Vertical	351	2.00	"	49.25	12.73	1.49	28.54
PK	87.23M	29.51	40.00	-10.49	-12.90	3	Vertical	68	1.25	-	42.41	14.11	1.50	28.51
PK	125.06M	33.92	43.50	-9.58	-8.85	3	Vertical	169	1.00	-	42.77	17.74	1.70	28.29
PK	500.45M	35.39	46.00	-10.61	-2.85	3	Vertical	170	2.00	-	38.24	23.21	3.10	29.16

Mode 1



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	30M	32.99	40.00	-7.01	-2.07	3	Horizontal	264	1.50	-	35.06	25.20	1.20	28.47
PK	63.95M	32.76	40.00	-7.24	-14.87	3	Horizontal	272	3.00	-	47.63	12.21	1.42	28.50
PK	84.32M	31.56	40.00	-8.44	-13.39	3	Horizontal	288	2.00	-	44.95	13.65	1.49	28.53
PK	88M	32.02	40.00	-7.98	-12.80	3	Horizontal	308	2.00	-	44.82	14.21	1.50	28.51
PK	125.06M	37.86	43.50	-5.64	-8.85	3	Horizontal	264	3.00	"Worst"	46.71	17.74	1.70	28.29
PK	163.86M	33.94	43.50	-9.56	-10.64	3	Horizontal	106	1.50	-	44.58	15.59	2.00	28.23

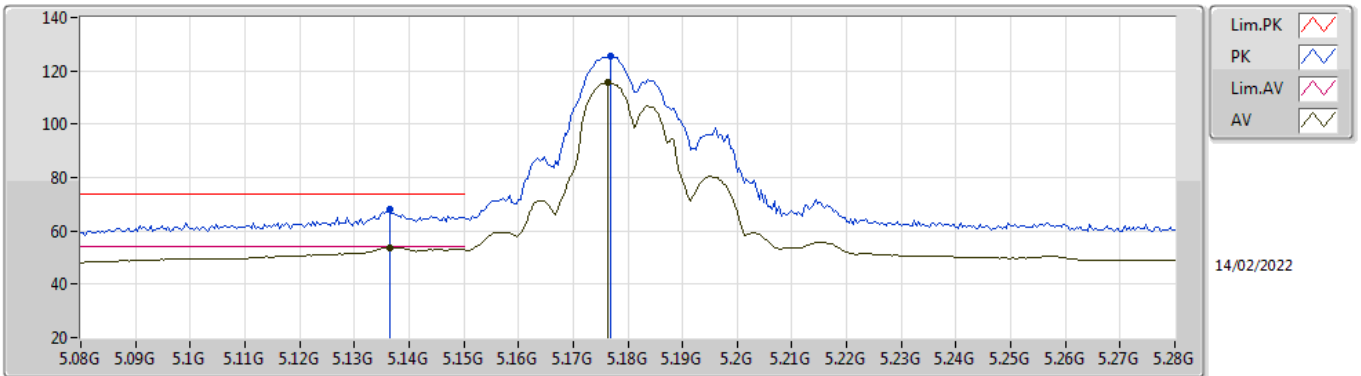


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	5.1364G	53.86	54.00	-0.14	3	Vertical	325	1.83	-

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

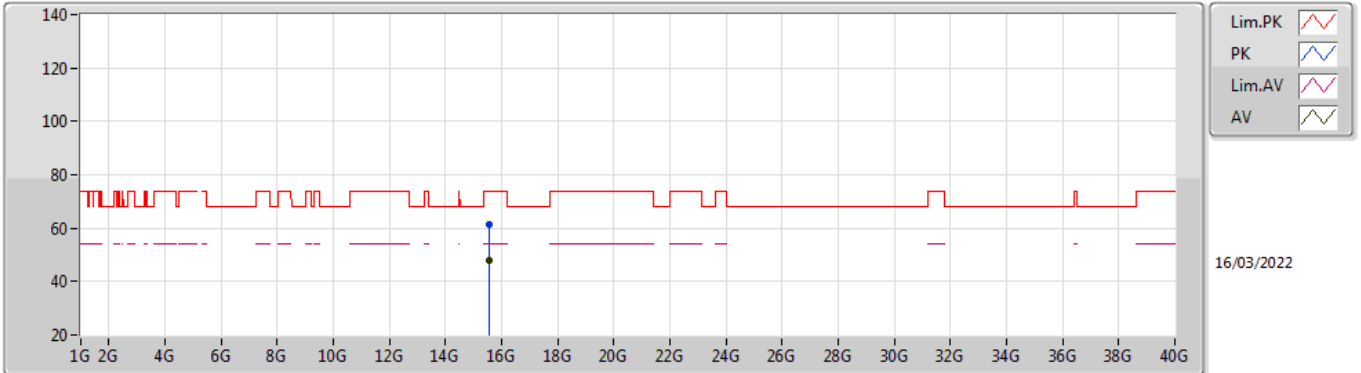


EUT_Z_4TX
Setting 102
06-C-S-5-10

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	5.1364G	68.10	74.00	-5.90	62.55	3	Vertical	325	1.83	-	31.78	5.74	31.97	
AV	5.1364G	53.86	54.00	-0.14	48.31	3	Vertical	325	1.83	-	31.78	5.74	31.97	
PK	5.1768G	125.56	Inf	-Inf	120.23	3	Vertical	325	1.83	-	31.54	5.78	31.99	
AV	5.1764G	115.63	Inf	-Inf	110.30	3	Vertical	325	1.83	-	31.54	5.78	31.99	

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

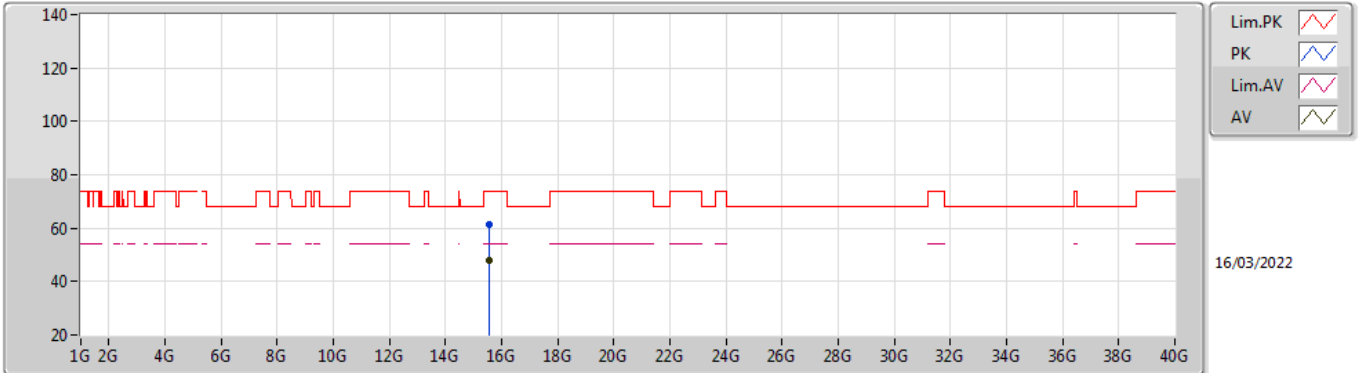


EUT_Z_4TX
Setting 102
06-C-K-5

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	15.54146G	61.38	74.00	-12.62	44.83	3	Vertical	202	2.63	-	38.49	12.30	34.24
AV	15.53998G	47.75	54.00	-6.25	31.19	3	Vertical	202	2.63	-	38.50	12.30	34.24

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TnomVnom

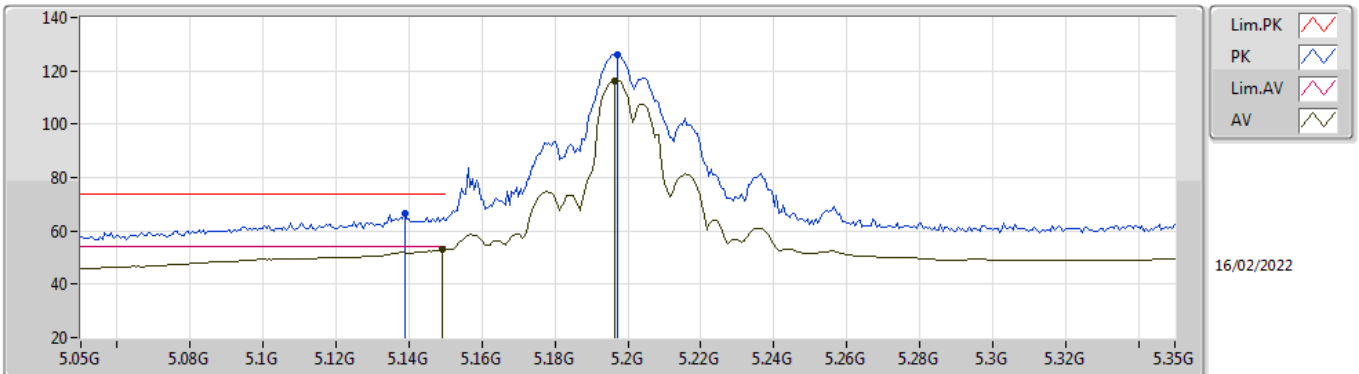


EUT_Z_4TX
Setting 102
06-C-K-5

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	15.54434G	61.58	74.00	-12.42	45.04	3	Horizontal	202	1.90	-	38.48	12.30	34.24
AV	15.54044G	47.74	54.00	-6.26	31.18	3	Horizontal	202	1.90	-	38.50	12.30	34.24

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

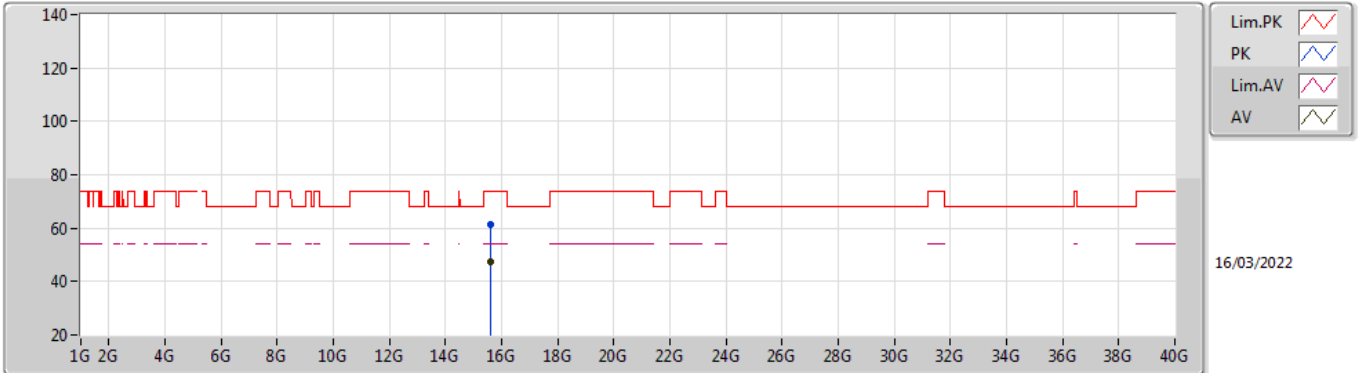


EUT_Z_4TX
Setting 108
06-C-S-5-10

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	5.1388G	66.70	74.00	-7.30	61.16	3	Vertical	327	1.91	-	31.77	5.74	31.97	
AV	5.149G	52.88	54.00	-1.12	47.40	3	Vertical	327	1.91	-	31.71	5.75	31.98	
PK	5.197G	126.19	Inf	-Inf	120.97	3	Vertical	327	1.91	-	31.42	5.80	32.00	
AV	5.1964G	116.45	Inf	-Inf	111.23	3	Vertical	327	1.91	-	31.42	5.80	32.00	

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

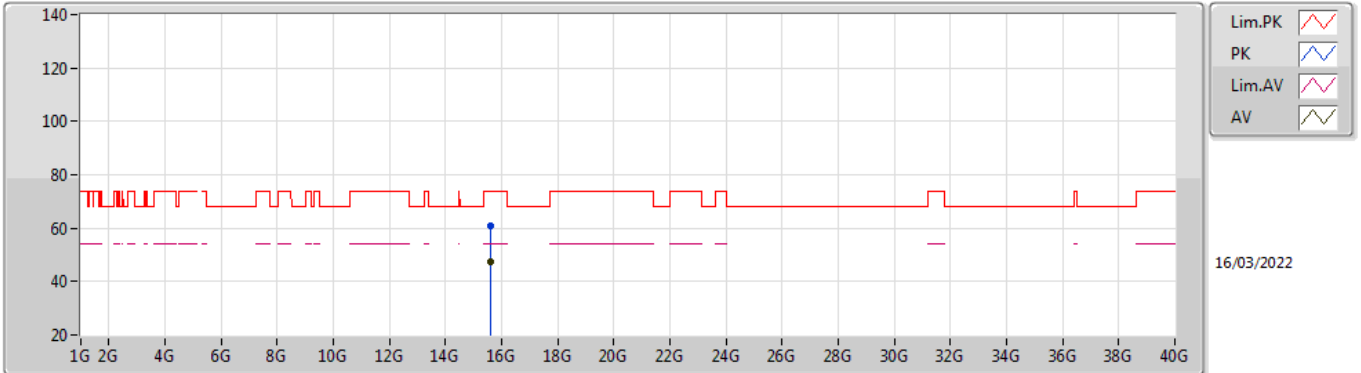


EUT_Z_4TX
Setting 108
06-C-K-5

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	15.5956G	61.20	74.00	-12.80	44.90	3	Vertical	276	2.24	-	38.22	12.34	34.26
AV	15.59554G	47.36	54.00	-6.64	31.06	3	Vertical	276	2.24	-	38.22	12.34	34.26

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TnomVnom

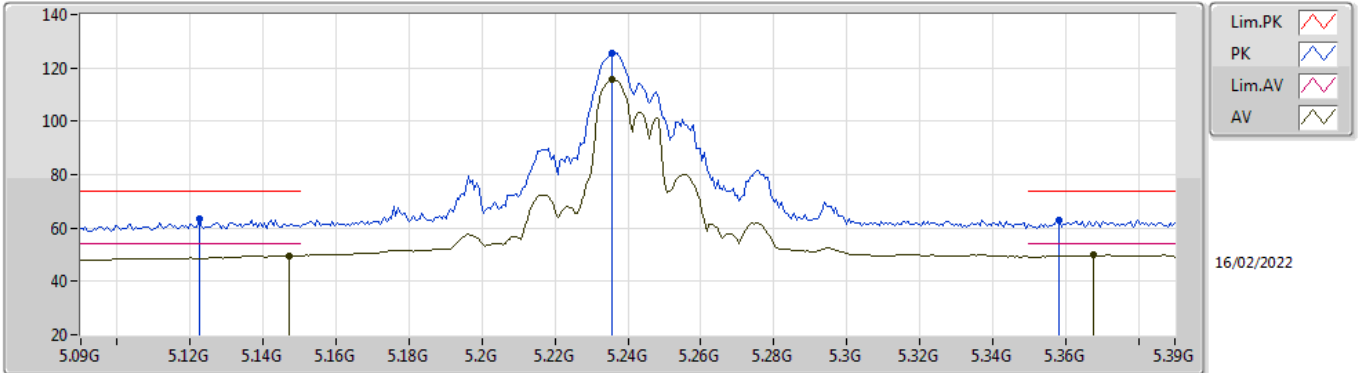


EUT_Z_4TX
Setting 108
06-C-K-5

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	15.59618G	60.92	74.00	-13.08	44.62	3	Horizontal	88	2.02	-	38.22	12.34	34.26
AV	15.60358G	47.39	54.00	-6.61	31.12	3	Horizontal	88	2.02	-	38.19	12.34	34.26

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

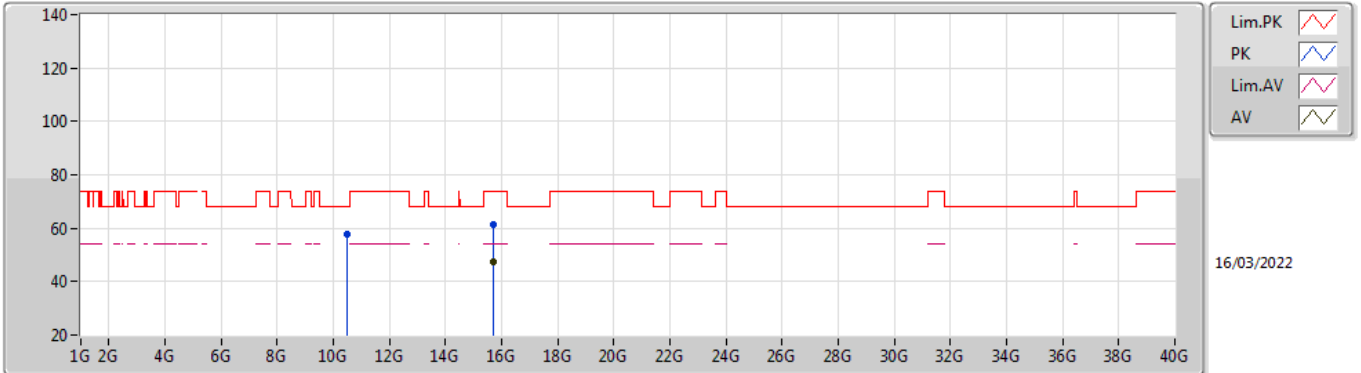


EUT_Z_4TX
Setting 108
06-C-S-5-10

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	5.1224G	63.60	74.00	-10.40	57.97	3	Vertical	227	1.86	-	31.87	5.72	31.96
AV	5.147G	49.69	54.00	-4.31	44.19	3	Vertical	227	1.86	-	31.72	5.75	31.97
PK	5.2358G	125.74	Inf	-Inf	120.76	3	Vertical	227	1.86	-	31.19	5.80	32.01
AV	5.2358G	115.46	Inf	-Inf	110.48	3	Vertical	227	1.86	-	31.19	5.80	32.01
PK	5.3582G	63.18	74.00	-10.82	58.30	3	Vertical	227	1.86	-	31.15	5.80	32.07
AV	5.3678G	49.79	54.00	-4.21	44.85	3	Vertical	227	1.86	-	31.21	5.80	32.07

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

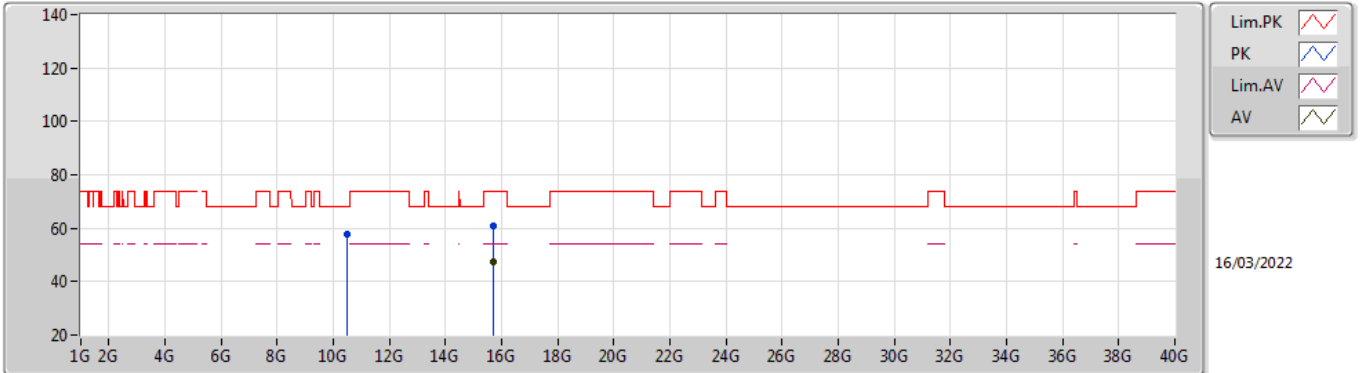


EUT_Z_4TX
Setting 108
06-C-K-5

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	10.47996G	57.69	68.20	-10.51	43.34	3	Vertical	0	1.80	-	39.58	8.89	34.12
PK	15.71708G	61.38	74.00	-12.62	45.47	3	Vertical	360	1.50	-	37.80	12.42	34.31
AV	15.72632G	47.50	54.00	-6.50	31.59	3	Vertical	360	1.50	-	37.80	12.42	34.31

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TnomVnom

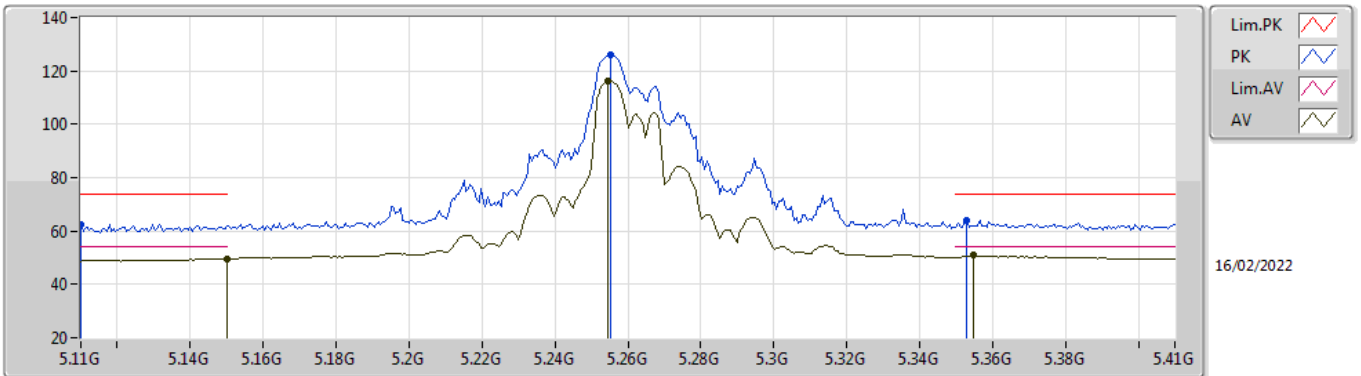


EUT_Z_4TX
Setting 108
06-C-K-5

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	10.48412G	57.54	68.20	-10.66	43.20	3	Horizontal	0	1.81	-	39.58	8.89	34.13
PK	15.7218G	61.12	74.00	-12.88	45.21	3	Horizontal	164	1.80	-	37.80	12.42	34.31
AV	15.7208G	47.24	54.00	-6.76	31.33	3	Horizontal	164	1.80	-	37.80	12.42	34.31

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

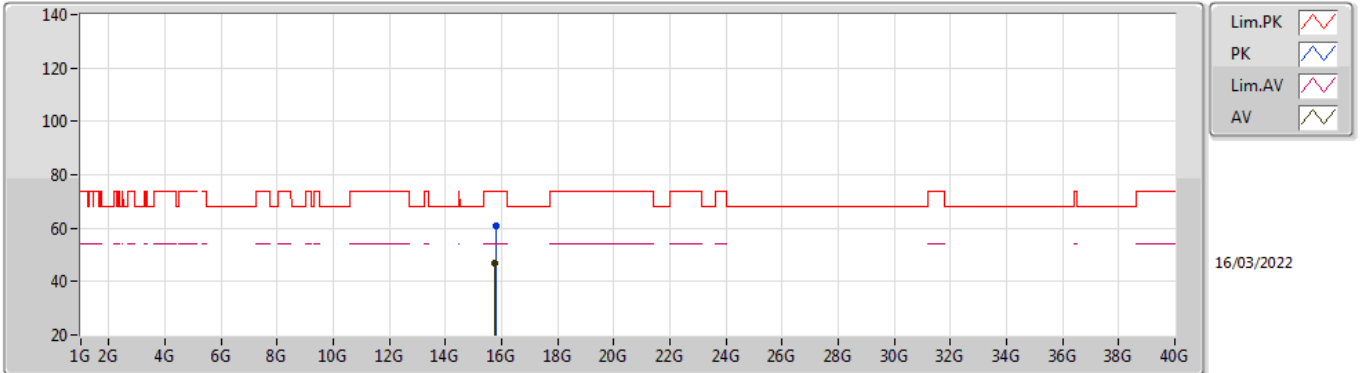


EUT_Z_4TX
Setting 108
06-C-S-5-10

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	5.11G	62.58	74.00	-11.42	56.89	3	Vertical	103	1.75	-	31.94	5.71	31.96
AV	5.15G	49.48	54.00	-4.52	44.01	3	Vertical	103	1.75	-	31.70	5.75	31.98
PK	5.2552G	126.06	Inf	-Inf	121.18	3	Vertical	103	1.75	-	31.10	5.80	32.02
AV	5.2546G	116.11	Inf	-Inf	111.23	3	Vertical	103	1.75	-	31.10	5.80	32.02
PK	5.353G	63.98	74.00	-10.02	59.13	3	Vertical	103	1.75	-	31.12	5.80	32.07
AV	5.3548G	50.83	54.00	-3.17	45.97	3	Vertical	103	1.75	-	31.13	5.80	32.07

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

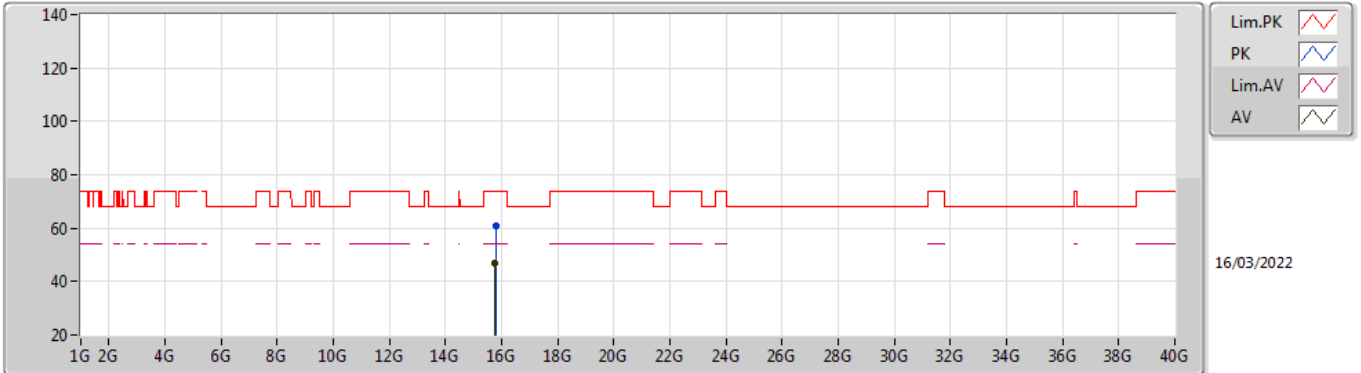


EUT_Z_4TX
Setting 108
06-C-K-5

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	15.78144G	60.95	74.00	-13.05	45.02	3	Vertical	82	1.95	-	37.80	12.46	34.33	
AV	15.77768G	46.68	54.00	-7.32	30.75	3	Vertical	82	1.95	-	37.80	12.46	34.33	

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TnomVnom

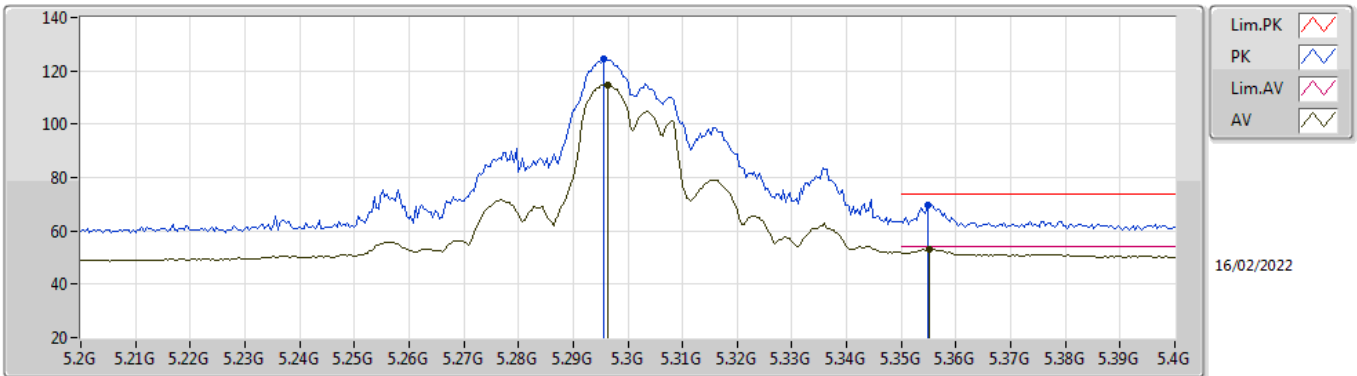


EUT_Z_4TX
Setting 108
06-C-K-5

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	15.7834G	60.78	74.00	-13.22	44.85	3	Horizontal	262	2.02	-	37.80	12.46	34.33
AV	15.77844G	46.65	54.00	-7.35	30.72	3	Horizontal	262	2.02	-	37.80	12.46	34.33

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

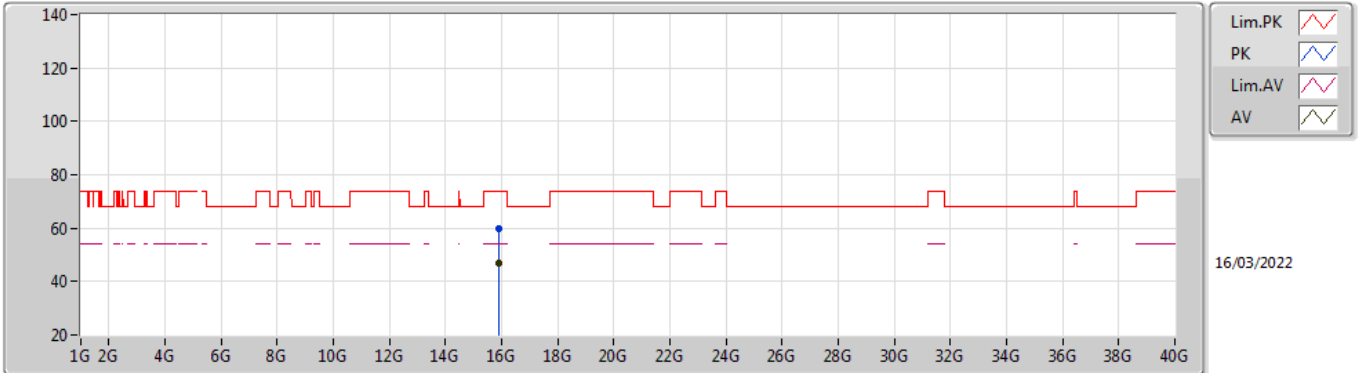


EUT_Z_4TX
Setting 103
06-C-S-5-10

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	5.2956G	124.41	Inf	-Inf	119.55	3	Vertical	228	1.80	-	31.10	5.80	32.04	
AV	5.2964G	114.69	Inf	-Inf	109.83	3	Vertical	228	1.80	-	31.10	5.80	32.04	
PK	5.3548G	69.54	74.00	-4.46	64.68	3	Vertical	228	1.80	-	31.13	5.80	32.07	
AV	5.3552G	53.32	54.00	-0.68	48.46	3	Vertical	228	1.80	-	31.13	5.80	32.07	

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

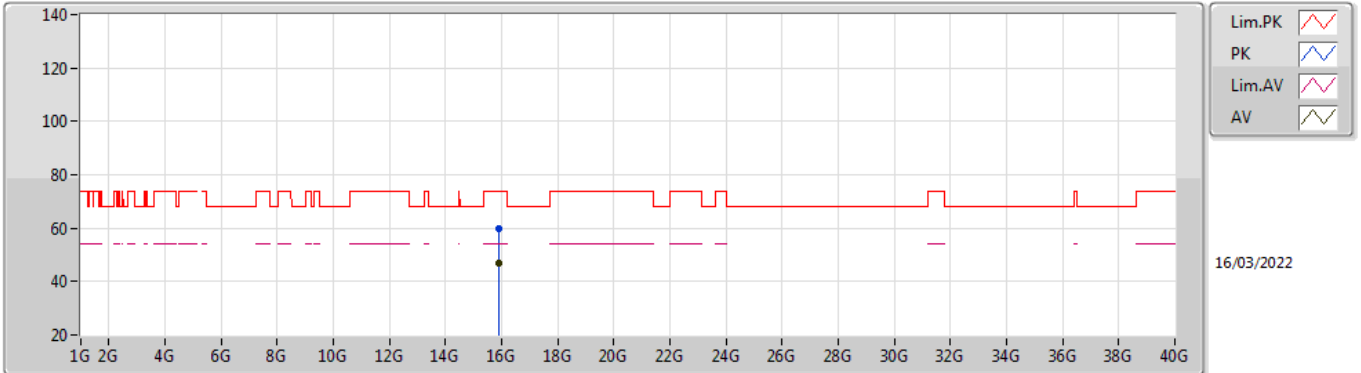


EUT_Z_4TX
Setting 103
06-C-K-5

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	15.89662G	59.69	74.00	-14.31	43.93	3	Vertical	346	2.30	-	37.61	12.53	34.38
AV	15.89972G	46.83	54.00	-7.17	31.08	3	Vertical	346	2.30	-	37.60	12.53	34.38

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TnomVnom

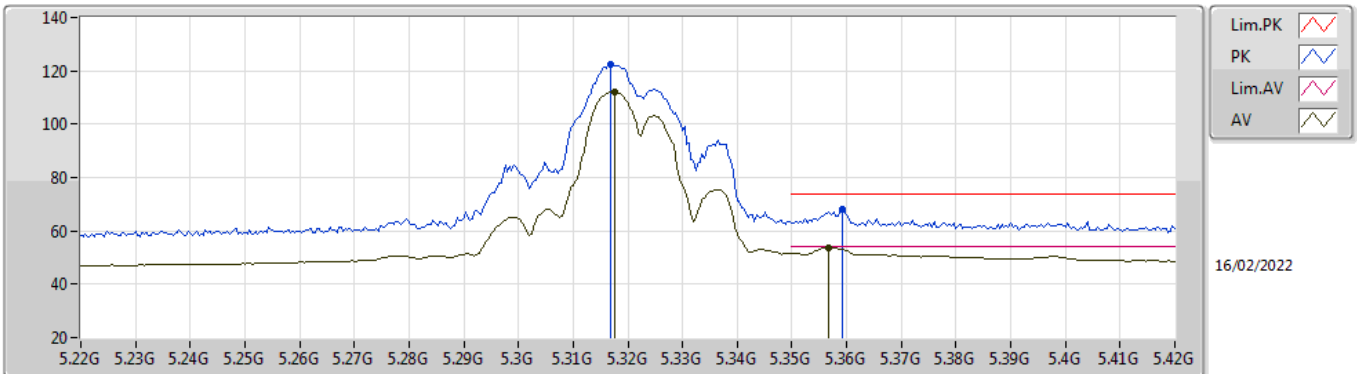


EUT_Z_4TX
Setting 103
06-C-K-5

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	15.89614G	59.90	74.00	-14.10	44.14	3	Horizontal	255	1.32	-	37.61	12.53	34.38
AV	15.90326G	46.73	54.00	-7.27	30.98	3	Horizontal	255	1.32	-	37.59	12.54	34.38

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

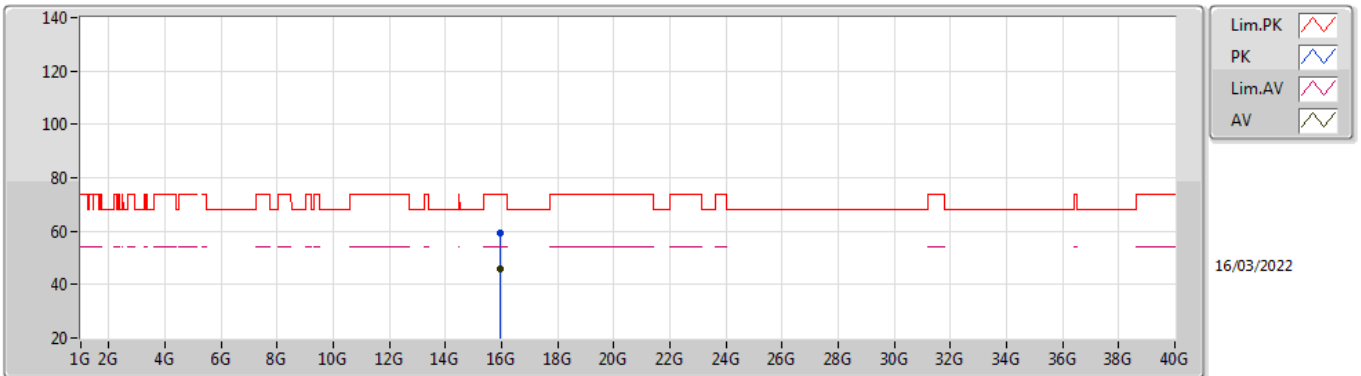


EUT_Z_4TX
Setting 94
06-C-S-5-10

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	5.3168G	122.20	Inf	-Inf	117.35	3	Vertical	322	1.80	-	31.10	5.80	32.05
AV	5.3176G	112.23	Inf	-Inf	107.38	3	Vertical	322	1.80	-	31.10	5.80	32.05
PK	5.3592G	67.90	74.00	-6.10	63.01	3	Vertical	322	1.80	-	31.16	5.80	32.07
AV	5.3568G	53.82	54.00	-0.18	48.95	3	Vertical	322	1.80	-	31.14	5.80	32.07

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

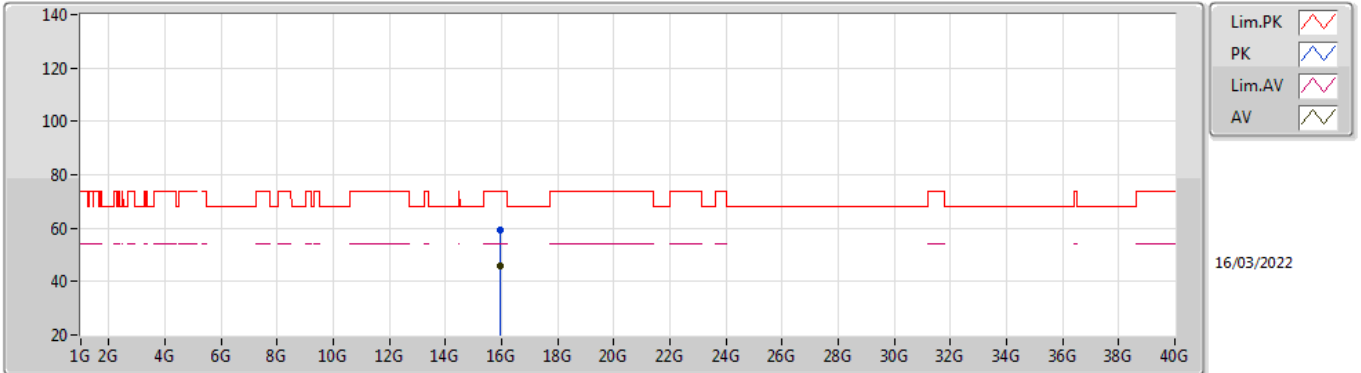


EUT_Z_4TX
Setting 94
06-C-K-5

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	15.96096G	59.38	74.00	-14.62	43.73	3	Vertical	23	2.04	-	37.48	12.57	34.40
AV	15.95934G	45.83	54.00	-8.17	30.18	3	Vertical	23	2.04	-	37.48	12.57	34.40

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TnomVnom

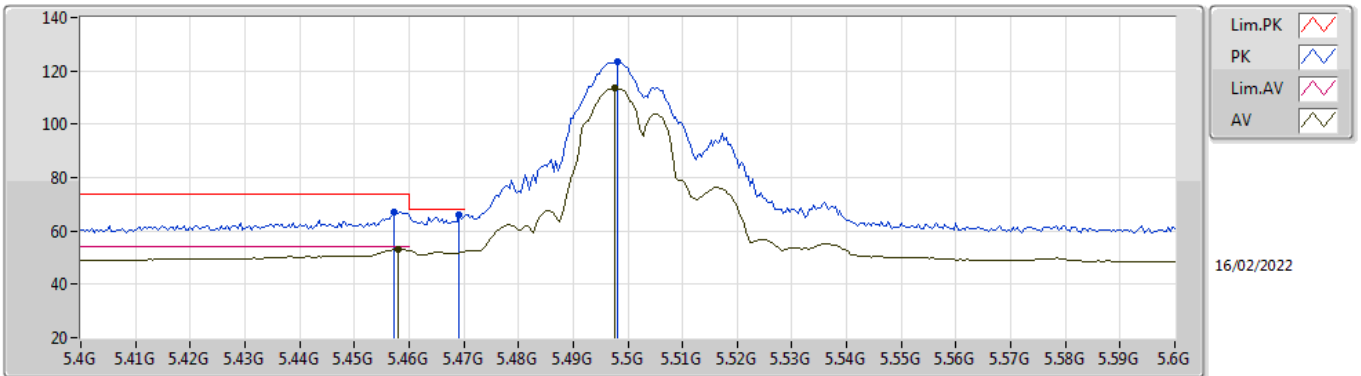


EUT_Z_4TX
Setting 94
06-C-K-5

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	15.9612G	59.35	74.00	-14.65	43.70	3	Horizontal	44	2.79	-	37.48	12.57	34.40	
AV	15.95794G	45.77	54.00	-8.23	30.12	3	Horizontal	44	2.79	-	37.48	12.57	34.40	

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TnomVnom



EUT_Z_4TX
Setting 102
06-C-S-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	5.4572G	67.20	74.00	-6.80	61.95	3	Vertical	319	1.80	-	31.50	5.86	32.11	
AV	5.458G	53.31	54.00	-0.69	48.06	3	Vertical	319	1.80	-	31.50	5.86	32.11	
PK	5.4692G	65.81	68.20	-2.39	60.56	3	Vertical	319	1.80	-	31.50	5.87	32.12	
PK	5.498G	123.58	Inf	-Inf	118.31	3	Vertical	319	1.80	-	31.50	5.90	32.13	
AV	5.4976G	113.67	Inf	-Inf	108.40	3	Vertical	319	1.80	-	31.50	5.90	32.13	