



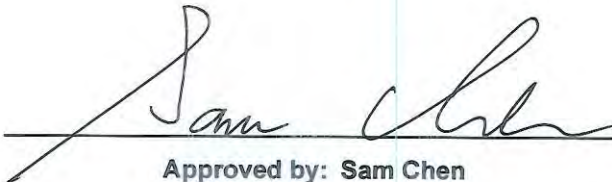
FCC RADIO TEST REPORT

FCC ID : UIDW31
Equipment : Wireless Router
Brand Name : ARRIS
Model Name : W31, W30
Applicant : ARRIS
3871 Lakefield Drive Suite 300, Suwanee, Georgia,
30024 United States
Manufacturer : ARRIS
3871 Lakefield Drive Suite 300, Suwanee, Georgia,
30024 United States
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 03, 2019, and testing was started from Sep. 26, 2019 and completed on Nov. 09, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.1

Page Number : 3 of 37
Issued Date : May 29, 2020
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

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: Emily Chen



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	802.11ax 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
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	802.11ax 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	802.11ax 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
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.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	PEGATRON	1415-07GT000	Dual band PCB dipole antenna	I-PEX	Note
2	PEGATRON	1415-07GS000	Dual band PCB dipole antenna	I-PEX	
3	PEGATRON	1415-06WH000	Dual band PCB dipole antenna	I-PEX	
4	PEGATRON	1415-07GW000	Dual band PCB dipole antenna	I-PEX	
5	PEGATRON	1415-07GU000	PCB dipole antenna	I-PEX	
6	PEGATRON	1415-07JP000	PCB dipole antenna	I-PEX	
7	PEGATRON	1415-07JN000	PCB dipole antenna	I-PEX	
8	PEGATRON	1415-07GX000	PCB dipole antenna	I-PEX	
9	PEGATRON	1415-07JQ000	PCB antenna	I-PEX	
10	PEGATRON	1415-06MM000	PCB dipole antenna	I-PEX	

Note:

Ant.	Port	Uncorrelated (dBi)			Correlated (dBi)			(dBi)
		2.4GHz	5GHz Band 1~2	5GHz Band 3~4	2.4GHz	5GHz Band 1~2	5GHz Band 3~4	Bluetooth
1	1	4.73	4.35	-	6.55	6.83		-
2	2	4.73	4.35	-	6.55	6.83		-
3	3	4.73	4.35	-	6.55	6.83		-
4	4	4.73	4.35	-	6.55	6.83		-
5	1	-	-	5.11	-	-	7.15	-
6	2	-	-	5.11	-	-	7.15	-
7	3	-	-	5.11	-	-	7.15	-
8	4	-	-	5.11	-	-	7.15	-
9	1	-	-	-	-	-	-	4.03
10	-	-	5.00	5.00	-	-	-	-

Note 1: The above information was declared by manufacturer.

Note 2: The EUT has ten antennas.

For Radio 1

WLAN 2.4GHz Functions

For IEEE 802.11b/g/n/ac/ax mode (4TX, 4RX):

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

WLAN 5GHz Functions (1RX):

Ant. 10 only supports the antenna receive function.

For Radio 3
WLAN 5GHz Band 1~2 Functions
For IEEE 802.11a/n/ac/ax mode (4TX, 4RX):

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

For Radio 2
WLAN 5GHz Band 3~4 Functions
For IEEE 802.11a/n/ac/ax mode (4TX, 4RX):

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

For Radio 4
Bluetooth Functions (1TX, 1RX):

Only Port 1 could transmit/receive simultaneously.

1.1.3 Table for Radio Type

Radio No.	2.4GHz	5GHz Band 1~2	5GHz Band 3~4	Bluetooth
Radio 1	V	Only RX function	Only RX function	-
Radio 2	-	-	V	-
Radio 3	-	V	-	-
Radio 4	-	-	-	V

1.1.4 Mode Test Duty Cycle
For Non-Beamforming mode:
For 802.11a/ac/ax mode, 5GHz Band 1~4 :

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.954	0.2	2.064m	1k
802.11ac VHT20	0.986	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.971	0.13	952.5u	3k
802.11ac VHT80	0.943	0.25	460.625u	3k
802.11ac VHT160	0.899	0.46	252.5u	10k
802.11ax HEW20	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.964	0.16	772.5u	3k
802.11ax HEW80	0.928	0.32	401.25u	3k
802.11ax HEW160	0.886	0.53	232.5u	10k

**For Beamforming mode:****For 802.11ac/ax mode, 5GHz Band 1~4 :**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.986	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40-BF	0.971	0.13	952.5u	3k
802.11ac VHT80-BF	0.943	0.25	460.625u	3k
802.11ac VHT160-BF	0.901	0.45	253.5u	10k
802.11ax HEW20-BF	0.911	0.4	2.933m	1k
802.11ax HEW40-BF	0.959	0.18	3.102m	1k
802.11ax HEW80-BF	0.955	0.2	3.918m	300
802.11ax HEW160-BF	0.956	0.2	3.66m	300

Note:

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

**1.1.5 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 and n/ac/ax in 5GHz.		
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Function	☐ Outdoor P2M	☒ Indoor P2M	
	☐ Fixed P2P	☐ Client	
TPC Function	☒ With TPC	☐ Without TPC	
Test Software Version	accessMTool(version 3.0.0.6)		

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT Functions

Type of Function	2.4GHz	5GHz Band 1~2	5GHz Band 3~4
Master (AP Router)	V	V	V
Master (Extender)	-	-	V
Bridge (Client without radar detection)	-	-	V
Client without radar detection	-	-	V

1.1.7 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Model Name	Color of Device's Bottom
W31	Matte Black
W30	Silver

From the above models, model name "W30" was selected as representative model for the test and its data was recorded in this report.



1.1.8 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR842742-03AB

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

Modifications	Performance Checking
1. Change the antenna and antenna models (all internal). 2. Changing the antenna location: antenna 2/5/6/7/8/9/10. For the detail antenna information please refer to the section 1.1.2.	For Non-Beamforming Mode: 1. Maximum Conducted Output Power. 2. Peak Power Spectral Density. 3. Unwanted Emissions (verified the worst case)
	For Beamforming Mode: 1. Emission Bandwidth. 2. Maximum Conducted Output Power. 3. Peak Power Spectral Density. 4. Unwanted Emissions above 1GHz



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH02-CB	Owen Hsu	24.7~25.9°C / 59~64%	Sep. 26, 2019~ Nov. 09, 2019
Radiated below 1GHz	03CH05-CB	KJ Chang	23.9~24.7°C / 57~59%	Oct. 17, 2019~ Oct. 29, 2019
Radiated Above 1GHz	03CH05-CB	KJ Chang	23.8~25.7°C / 55~58%	Oct. 17, 2019~ Oct. 29, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Non-Beamforming mode:

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	91
5200MHz	99
5240MHz	98
5260MHz	72
5300MHz	75
5320MHz	74
5500MHz	66
5580MHz	63
5700MHz	68
5720MHz Straddle 5.47-5.725GHz	68
5720MHz Straddle 5.725-5.85GHz	68
5745MHz	94
5785MHz	93
5825MHz	94
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	87
5200MHz	98
5240MHz	99
5260MHz	72
5300MHz	73
5320MHz	74
5500MHz	65
5580MHz	63
5700MHz	69
5720MHz Straddle 5.47-5.725GHz	69
5720MHz Straddle 5.725-5.85GHz	69
5745MHz	94
5785MHz	93
5825MHz	94
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	78
5230MHz	95
5270MHz	76



5310MHz	77
5510MHz	69
5550MHz	68
5670MHz	71
5710MHz Straddle 5.47-5.725GHz	73
5710MHz Straddle 5.725-5.85GHz	73
5755MHz	98
5795MHz	96
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	75
5290MHz	75
5530MHz	69
5610MHz	72
5690MHz Straddle 5.47-5.725GHz	73
5690MHz Straddle 5.725-5.85GHz	73
5775MHz	87
802.11ac VHT160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	67
5250MHz Straddle 5.25-5.35GHz	67
5570MHz	67
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	86
5200MHz	98
5240MHz	99
5260MHz	70
5300MHz	74
5320MHz	74
5500MHz	65
5580MHz	63
5700MHz	68
5720MHz Straddle 5.47-5.725GHz	66
5720MHz Straddle 5.725-5.85GHz	66
5745MHz	92
5785MHz	92
5825MHz	92
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	74
5230MHz	97
5270MHz	76
5310MHz	78
5510MHz	67



5550MHz	68
5670MHz	71
5710MHz Straddle 5.47-5.725GHz	70
5710MHz Straddle 5.725-5.85GHz	70
5755MHz	97
5795MHz	97
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	66
5290MHz	75
5530MHz	69
5610MHz	71
5690MHz Straddle 5.47-5.725GHz	71
5690MHz Straddle 5.725-5.85GHz	71
5775MHz	79
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	67
5250MHz Straddle 5.25-5.35GHz	67
5570MHz	61

For Beamforming mode:

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5180MHz	86
5200MHz	95
5240MHz	96
5260MHz	67
5300MHz	69
5320MHz	70
5500MHz	64
5580MHz	62
5700MHz	67
5720MHz Straddle 5.47-5.725GHz	68
5720MHz Straddle 5.725-5.85GHz	68
5745MHz	88
5785MHz	88
5825MHz	89
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5190MHz	73
5230MHz	95
5270MHz	71
5310MHz	73



Mode	Power Setting
5510MHz	56
5550MHz	64
5670MHz	67
5710MHz Straddle 5.47-5.725GHz	71
5710MHz Straddle 5.725-5.85GHz	71
5755MHz	94
5795MHz	92
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5210MHz	69
5290MHz	70
5530MHz	66
5610MHz	68
5690MHz Straddle 5.47-5.725GHz	69
5690MHz Straddle 5.725-5.85GHz	69
5775MHz	80
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	68
5250MHz Straddle 5.25-5.35GHz	68
5570MHz	63
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	87
5200MHz	95
5240MHz	96
5260MHz	67
5300MHz	69
5320MHz	70
5500MHz	64
5580MHz	62
5700MHz	67
5720MHz Straddle 5.47-5.725GHz	68
5720MHz Straddle 5.725-5.85GHz	68
5745MHz	88
5785MHz	88
5825MHz	89
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	73
5230MHz	95
5270MHz	71
5310MHz	73



Mode	Power Setting
5510MHz	56
5550MHz	64
5670MHz	67
5710MHz Straddle 5.47-5.725GHz	71
5710MHz Straddle 5.725-5.85GHz	71
5755MHz	94
5795MHz	94
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	72
5290MHz	70
5530MHz	66
5610MHz	68
5690MHz Straddle 5.47-5.725GHz	70
5690MHz Straddle 5.725-5.85GHz	70
5775MHz	80
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	68
5250MHz Straddle 5.25-5.35GHz	68
5570MHz	63

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ There are two modes of EUT, one is beamforming mode, and the other is Non-beamforming mode for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz, Beamforming mode and Non-beamforming mode have been testes and recorded in this test report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak 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 There are two adapters (adapter 1 and adapter 2) The worst case was found as Adapter 1 from testing result of previously. So the measurement will follow this same test configuration.
1	EUT - Radio 1 (WLAN 2.4GHz) + Adapter 1
2	EUT - Radio 3 (WLAN 5GHz Band 1~2) + Adapter 1
3	EUT - Radio 2 (WLAN 5GHz Band 3~4) + Adapter 1
4	EUT - Radio 4 (Bluetooth) + Adapter 1
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1 (WLAN 2.4GHz) + Radio 3 (WLAN 5GHz Band 1~2) + Radio 2 (WLAN 5GHz Band 3~4) + Radio 4 (Bluetooth)
Refer to Sporton Test Report No.: FA842742-05 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be use in Y axis position.



2.3 EUT Operation during Test

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 Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

2.4 Accessories

Accessories					
No.	Equipment Name	Brand Name	Model Name	P/N	Rating
1	Adapter 1	APD	WA-36L12FU	AREP05681	INPUT: 100-120V ~, 60Hz, 0.9A Max OUTPUT: 12V, 3A
2	Adapter 2	NetBit	NBS42D120 350VU	AREP05751	INPUT: 100-120V ~, 50/60Hz, 1.0A OUTPUT: 12.0V, 3.5A



2.5 Support Equipment

For Radiated (below 1GHz):

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

For Radiated (above 1GHz):

For Beamforming Mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	RX Device	ASUS	RT-AX88U	MSQ-RTAXHP00
C	NB	DELL	E4300	N/A

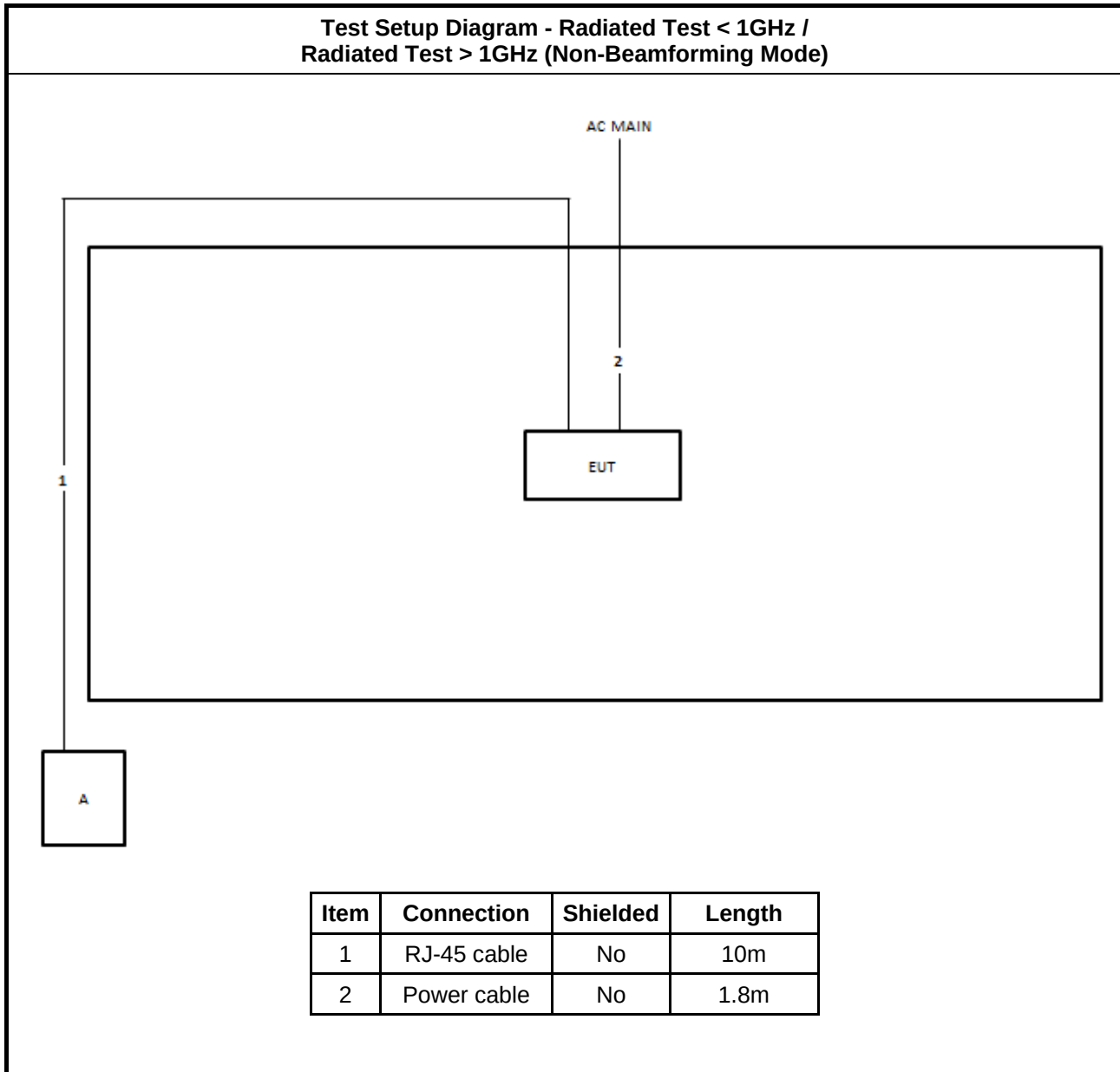
For Non-Beamforming Mode:

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

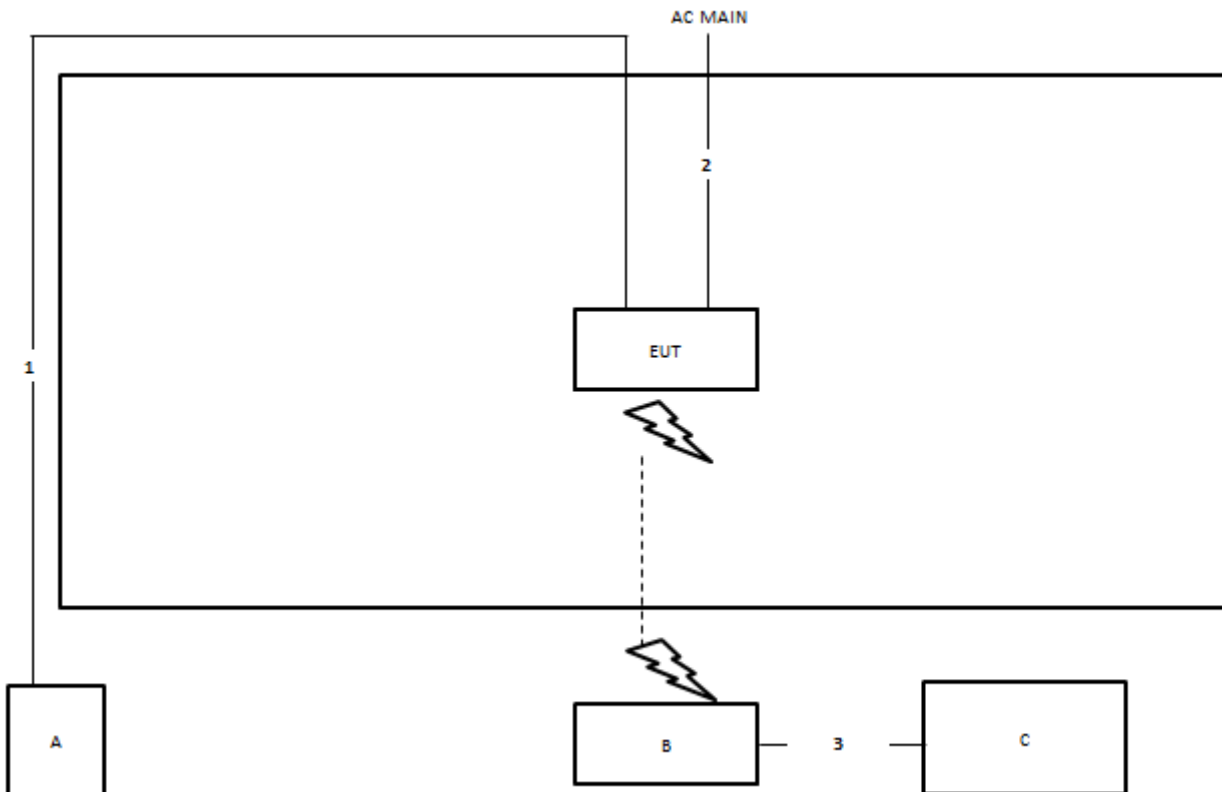
For RF Conducted:

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
(Beamforming Mode)**



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m
3	RJ-45 cable	No	1.5m

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 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.

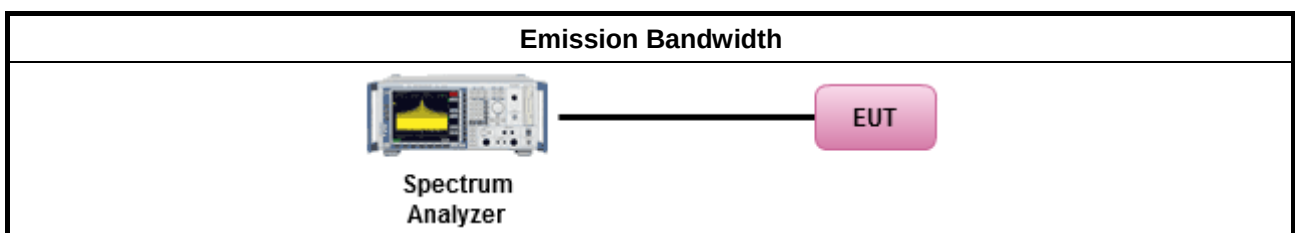
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth



Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, 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.	

3.2.2 Measuring Instruments

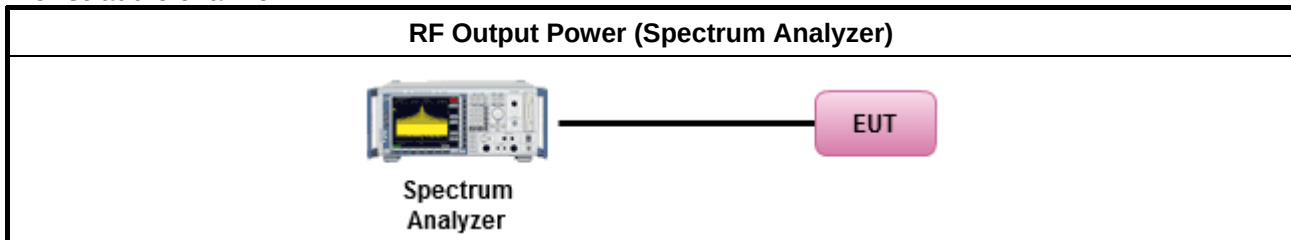
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

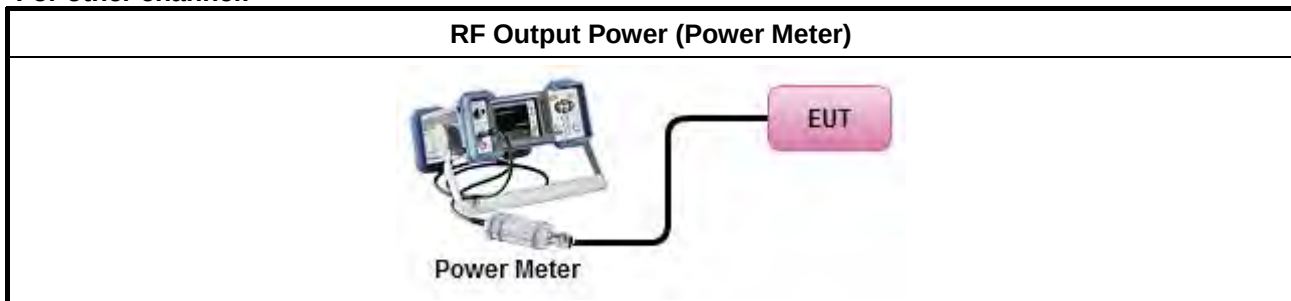
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.2.4 Test Setup

For straddle channel:



For other channel:



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

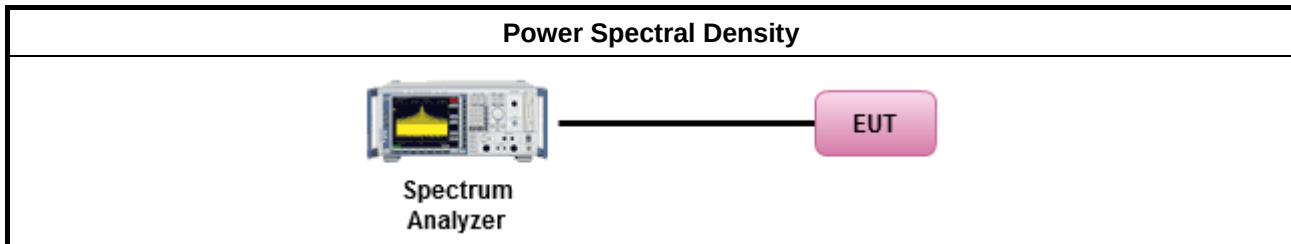
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth [duty cycle ≥ 98% or external video / power trigger]
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, 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, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



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

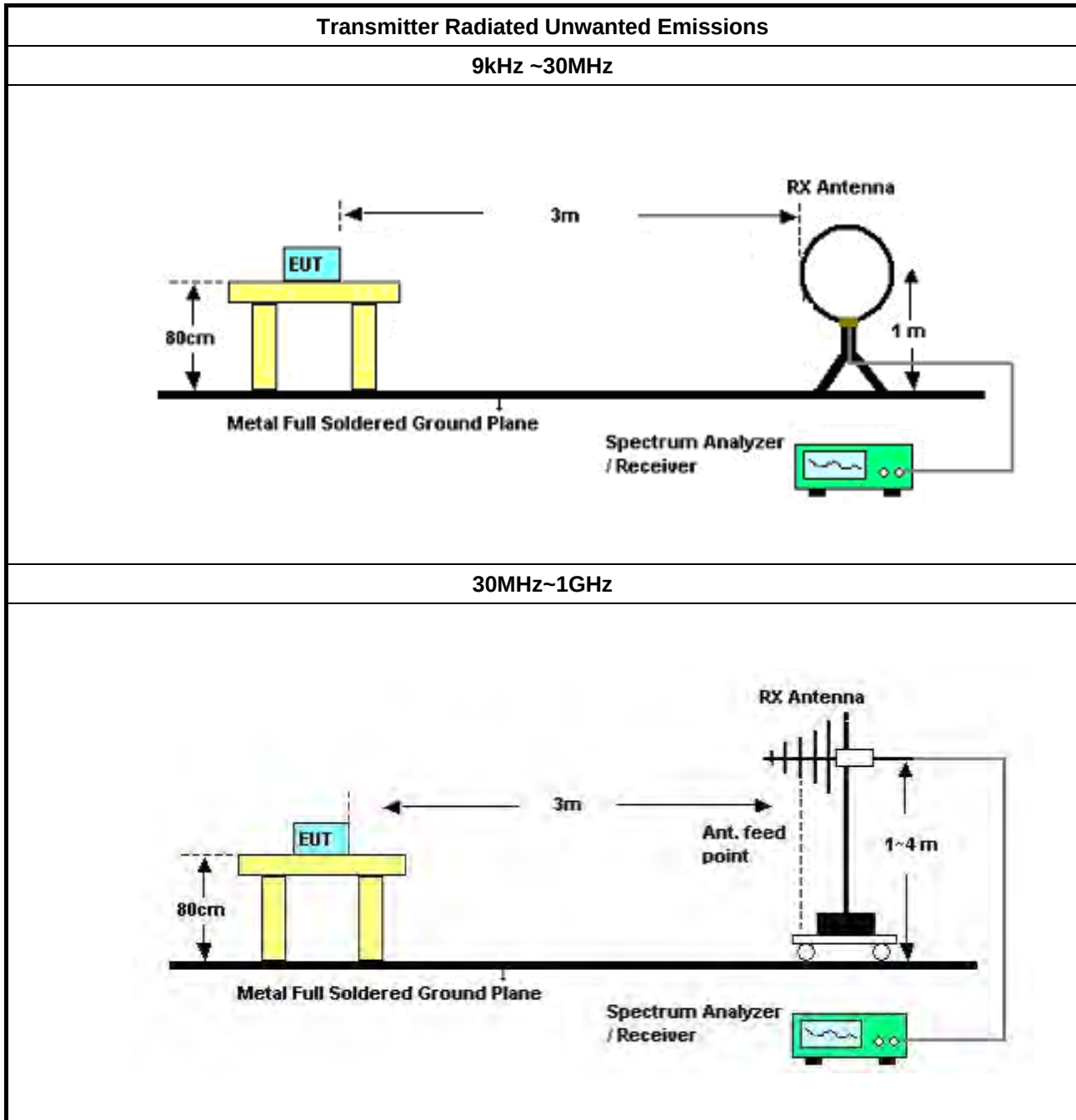
3.4.2 Measuring Instruments

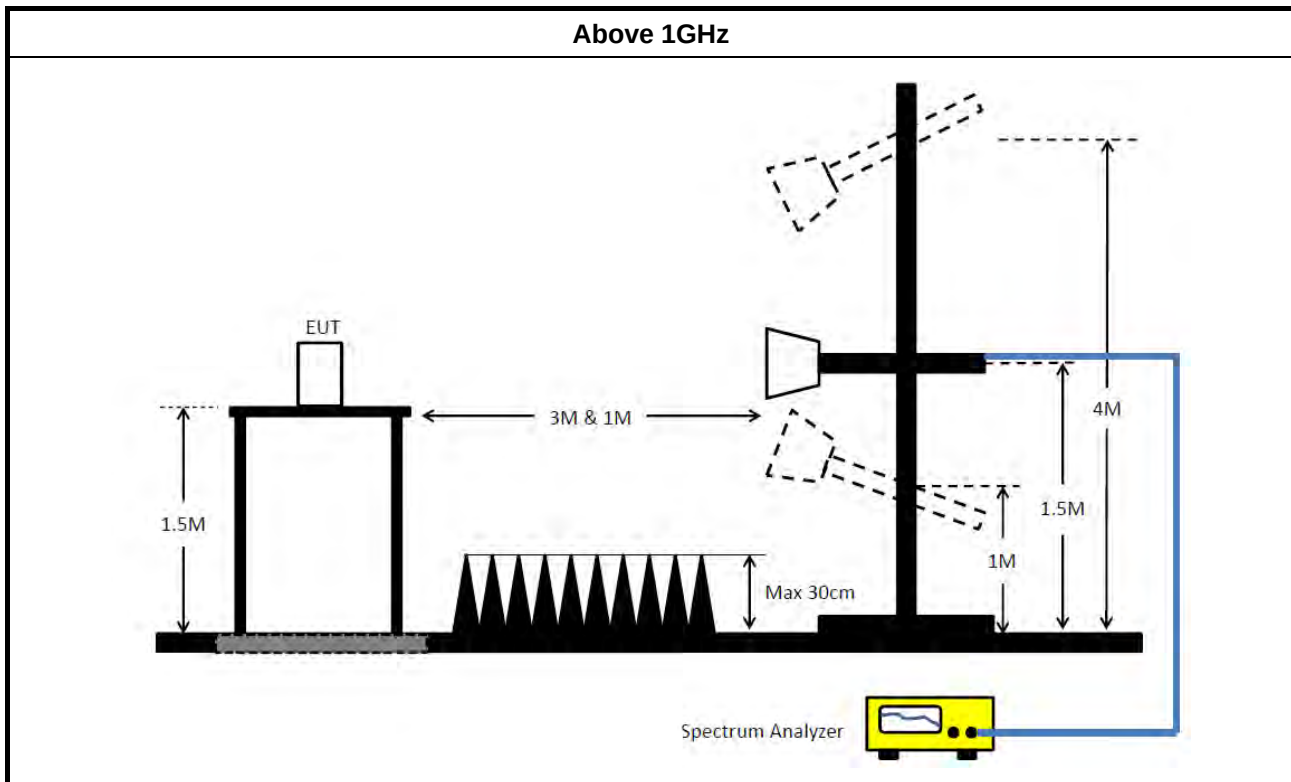
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup





3.4.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.4.6 Transmitter Unwanted Emissions (Below 30MHz)

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

All 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 10 harmonic or 40 GHz, whichever is appropriate.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Apr. 16, 2019	Apr. 15, 2020	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH02-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	36.93M	18.051M	18M1D1D	21.45M	16.552M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	74.46M	36.402M	36M4D1D	39.66M	36.162M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.84M	75.682M	75M7D1D	81.12M	75.322M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	81.52M	75.722M	75M7D1D	80.88M	75.402M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	36.3M	19.1M	19M1D1D	21.57M	18.921M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	61.74M	37.781M	37M8D1D	39.84M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.84M	77.121M	77M1D1D	81.6M	76.762M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.28M	77.161M	77M2D1D	80.8M	76.762M
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.69M	17.811M	17M8D1D	21.45M	17.751M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.32M	36.342M	36M3D1D	39.48M	36.162M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.84M	75.922M	75M9D1D	81.24M	75.682M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	82.56M	75.722M	75M7D1D	80.48M	75.482M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.72M	19.01M	19M0D1D	21.51M	18.921M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.661M	37M7D1D	39.9M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.84M	77.121M	77M1D1D	81.6M	76.762M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.28M	77.241M	77M2D1D	80.96M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.75M	17.811M	17M8D1D	15.63M	13.898M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.26M	36.342M	36M3D1D	34.895M	32.954M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82.08M	75.802M	75M8D1D	75.75M	72.264M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	165.12M	155.202M	155MD1D	163.92M	154.723M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.72M	19.01M	19M0D1D	15.69M	14.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.661M	37M7D1D	35M	33.583M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.121M	77M1D1D	75.9M	73.238M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	165.36M	155.922M	156MD1D	164.88M	154.963M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.58M	17.871M	17M9D1D	3.56M	4.138M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	36.3M	36.342M	36M3D1D	3.02M	3.418M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	75.6M	75.922M	75M9D1D	2.92M	3.458M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.96M	19.04M	19M0D1D	4.4M	4.498M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.56M	37.661M	37M7D1D	3.3M	3.978M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.2M	77.121M	77M1D1D	3.26M	3.978M

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)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.45M	16.552M	21.6M	16.612M	21.99M	16.612M	21.45M	16.582M
5200MHz	Pass	Inf	29.52M	17.901M	21.57M	17.781M	35.46M	18.051M	33.27M	17.901M
5240MHz	Pass	Inf	35.82M	18.021M	21.63M	17.781M	36.93M	18.051M	30.42M	17.781M
5260MHz	Pass	Inf	21.69M	17.781M	21.69M	17.811M	21.69M	17.781M	21.69M	17.751M
5300MHz	Pass	Inf	21.57M	17.781M	21.51M	17.811M	21.66M	17.751M	21.63M	17.811M
5320MHz	Pass	Inf	21.69M	17.751M	21.45M	17.781M	21.54M	17.751M	21.63M	17.751M
5500MHz	Pass	Inf	21.72M	17.811M	21.66M	17.781M	21.45M	17.751M	21.75M	17.781M
5580MHz	Pass	Inf	21.63M	17.751M	21.57M	17.781M	21.48M	17.751M	21.6M	17.811M
5700MHz	Pass	Inf	21.6M	17.721M	21.6M	17.781M	21.45M	17.691M	21.72M	17.781M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.705M	13.928M	15.75M	13.943M	15.63M	13.898M	15.75M	13.958M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.56M	4.138M	3.58M	4.238M	3.7M	4.158M	3.72M	4.198M
5745MHz	Pass	500k	16.74M	17.781M	17.55M	17.751M	16.95M	17.751M	17.55M	17.721M
5785MHz	Pass	500k	17.28M	17.841M	17.55M	17.751M	16.38M	17.781M	17.55M	17.811M
5825MHz	Pass	500k	17.55M	17.871M	17.58M	17.841M	16.2M	17.811M	17.55M	17.811M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.66M	36.162M	40.08M	36.282M	39.9M	36.222M	40.02M	36.222M
5230MHz	Pass	Inf	55.56M	36.342M	40.26M	36.342M	74.46M	36.402M	64.74M	36.282M
5270MHz	Pass	Inf	39.66M	36.162M	39.72M	36.222M	39.48M	36.222M	40.32M	36.282M
5310MHz	Pass	Inf	39.78M	36.342M	39.78M	36.282M	39.54M	36.342M	40.2M	36.162M
5510MHz	Pass	Inf	40.2M	36.162M	39.72M	36.162M	40.08M	36.222M	39.72M	36.282M
5550MHz	Pass	Inf	40.08M	36.282M	39.9M	36.222M	40.02M	36.222M	39.84M	36.282M
5670MHz	Pass	Inf	40.26M	36.222M	39.72M	36.222M	39.78M	36.342M	39.78M	36.222M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.28M	32.954M	34.93M	33.023M	35.07M	33.093M	34.895M	33.093M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.478M	3.02M	3.498M	3.1M	3.458M	3.1M	3.418M
5755MHz	Pass	500k	35.7M	36.222M	36.24M	36.222M	35.64M	36.342M	36.06M	36.282M
5795MHz	Pass	500k	35.1M	36.282M	36.06M	36.282M	35.76M	36.282M	36.3M	36.162M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	75.562M	81.12M	75.322M	81.36M	75.682M	81.84M	75.562M
5290MHz	Pass	Inf	81.72M	75.682M	81.24M	75.682M	81.36M	75.922M	81.84M	75.682M
5530MHz	Pass	Inf	82.08M	75.802M	81.6M	75.802M	81.48M	75.682M	81.84M	75.562M
5610MHz	Pass	Inf	81.84M	75.562M	81.36M	75.682M	81.24M	75.802M	81.84M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	72.264M	75.825M	72.489M	75.75M	72.639M	76.05M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.06M	3.478M	2.92M	3.498M	3.06M	3.478M	3.04M	3.458M
5775MHz	Pass	500k	75.12M	75.802M	75.6M	75.922M	74.04M	75.802M	75M	75.562M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.88M	75.642M	81.52M	75.642M	81.28M	75.722M	81.36M	75.402M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.72M	75.642M	80.48M	75.482M	82.56M	75.642M	81.68M	75.722M
5570MHz	Pass	Inf	163.92M	155.202M	165.12M	155.202M	164.88M	154.723M	164.64M	154.963M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.66M	18.981M	21.57M	18.921M	22.29M	19.04M	22.86M	18.981M
5200MHz	Pass	Inf	25.65M	19.01M	23.01M	18.951M	29.01M	19.07M	29.19M	19.01M
5240MHz	Pass	Inf	31.71M	19.1M	23.4M	18.981M	36.3M	19.07M	25.77M	19.01M
5260MHz	Pass	Inf	21.66M	18.951M	21.69M	18.981M	21.6M	18.981M	21.72M	18.981M



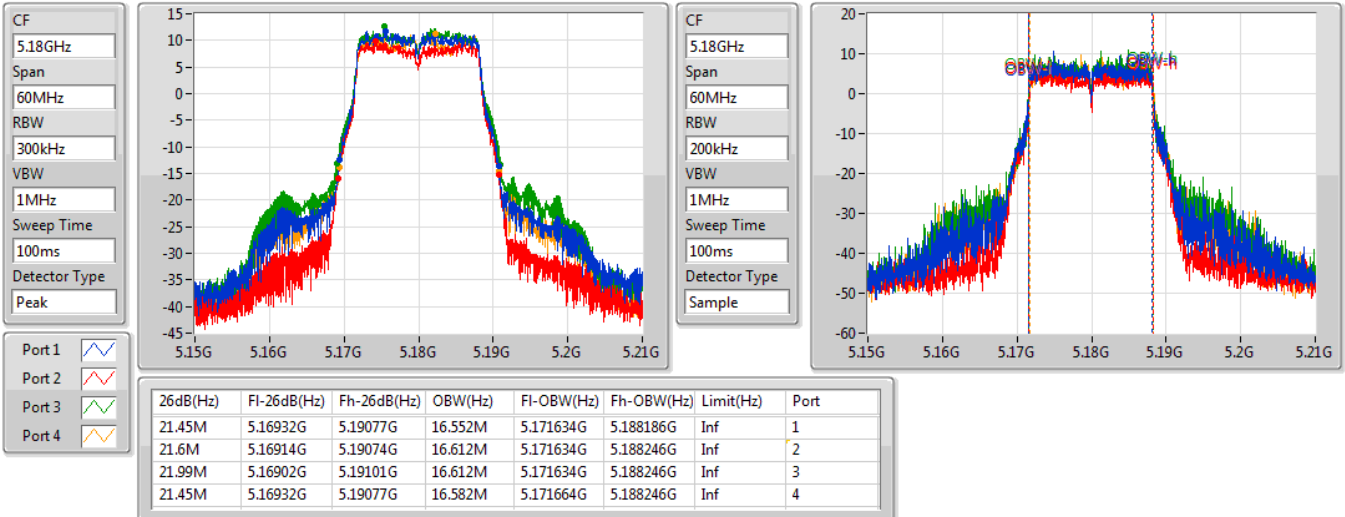
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5300MHz	Pass	Inf	21.6M	18.981M	21.72M	18.951M	21.6M	18.981M	21.72M	18.981M
5320MHz	Pass	Inf	21.72M	18.921M	21.66M	19.01M	21.51M	18.951M	21.72M	19.01M
5500MHz	Pass	Inf	21.72M	18.981M	21.51M	18.921M	21.66M	18.951M	21.72M	19.01M
5580MHz	Pass	Inf	21.69M	18.981M	21.63M	18.981M	21.63M	18.981M	21.36M	18.981M
5700MHz	Pass	Inf	21.57M	19.01M	21.63M	18.981M	21.72M	18.981M	21.57M	18.981M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.78M	14.513M	15.69M	14.498M	15.75M	14.528M	15.705M	14.528M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.498M	4.44M	4.498M	4.4M	4.498M	4.44M	4.498M
5745MHz	Pass	500k	18.84M	18.951M	18.93M	18.951M	18.18M	19.04M	18.87M	19.04M
5785MHz	Pass	500k	18.42M	18.951M	18.9M	19.01M	17.49M	19.01M	18.93M	19.04M
5825MHz	Pass	500k	18.03M	18.981M	18.66M	18.981M	18.66M	19.04M	18.96M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.601M	40.08M	37.541M	39.84M	37.541M	40.2M	37.481M
5230MHz	Pass	Inf	58.92M	37.721M	47.52M	37.601M	61.74M	37.781M	56.46M	37.661M
5270MHz	Pass	Inf	40.08M	37.481M	40.08M	37.481M	39.9M	37.601M	40.08M	37.541M
5310MHz	Pass	Inf	40.2M	37.601M	40.08M	37.661M	39.9M	37.601M	40.08M	37.541M
5510MHz	Pass	Inf	40.02M	37.601M	40.02M	37.541M	39.84M	37.661M	40.2M	37.481M
5550MHz	Pass	Inf	40.02M	37.481M	39.96M	37.481M	40.02M	37.541M	40.14M	37.541M
5670MHz	Pass	Inf	40.08M	37.661M	39.96M	37.481M	39.96M	37.541M	40.08M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.688M	35M	33.583M	35.07M	33.653M	35.175M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.3M	3.978M	3.7M	3.998M	3.76M	3.978M	3.82M	3.978M
5755MHz	Pass	500k	36M	37.601M	37.02M	37.541M	36.3M	37.601M	37.38M	37.661M
5795MHz	Pass	500k	37.14M	37.661M	36.96M	37.481M	36.3M	37.541M	37.56M	37.661M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.84M	76.762M	81.72M	77.121M	81.6M	77.121M	81.84M	77.001M
5290MHz	Pass	Inf	81.6M	77.001M	81.84M	77.121M	81.84M	77.001M	81.84M	76.762M
5530MHz	Pass	Inf	82.2M	77.001M	81.96M	77.001M	81.72M	76.762M	81.84M	77.001M
5610MHz	Pass	Inf	81.84M	77.121M	81.72M	77.001M	81.84M	77.121M	81.6M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.9M	73.238M	75.9M	73.238M	76.2M	73.238M	75.975M	73.463M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	3.998M	3.42M	4.018M	3.68M	3.978M	3.64M	4.018M
5775MHz	Pass	500k	75.24M	77.001M	75.84M	77.001M	76.2M	77.001M	75.24M	77.121M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.88M	76.762M	81.28M	77.161M	80.8M	77.081M	80.96M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.04M	77.001M	80.96M	77.081M	81.12M	77.241M	81.28M	77.081M
5570MHz	Pass	Inf	164.88M	155.442M	165.36M	155.922M	165.36M	154.963M	165.12M	155.202M

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

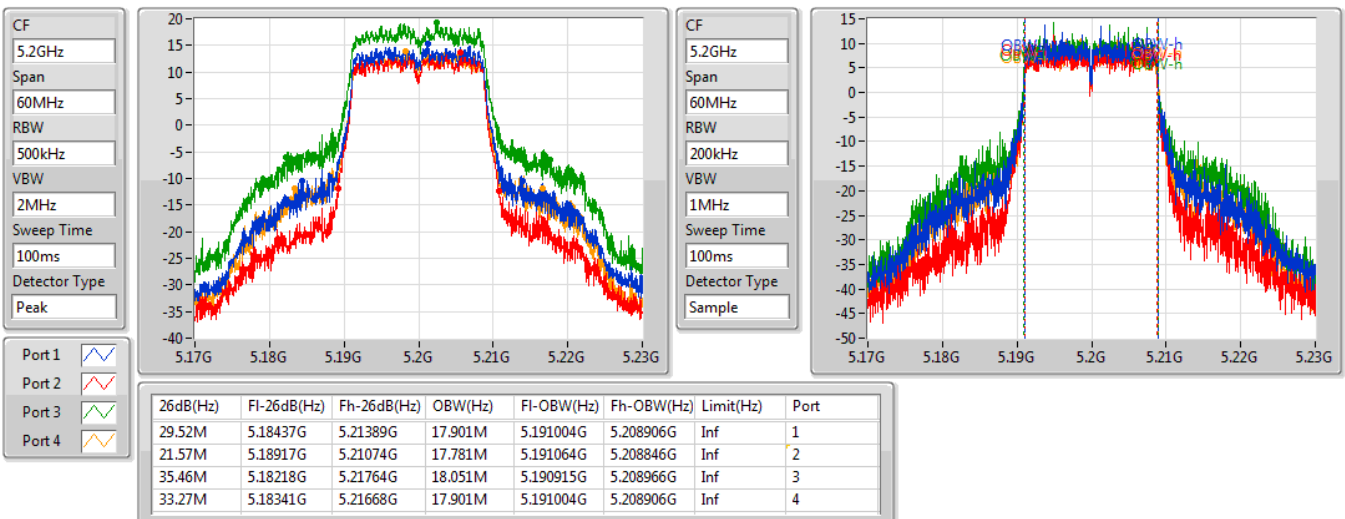
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

26/10/2019

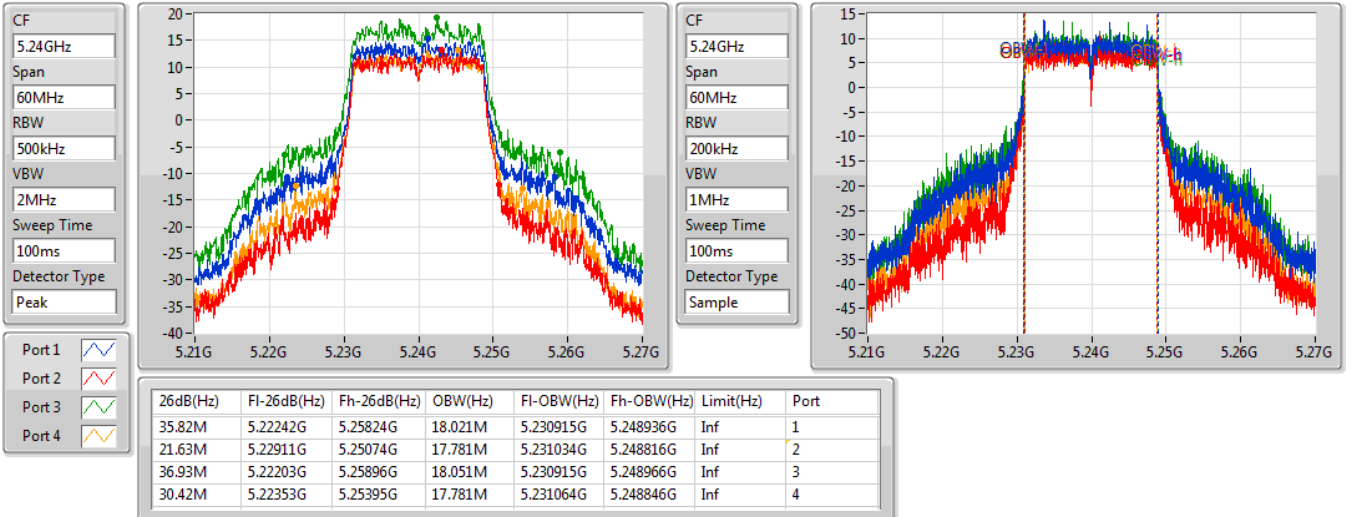

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

26/10/2019

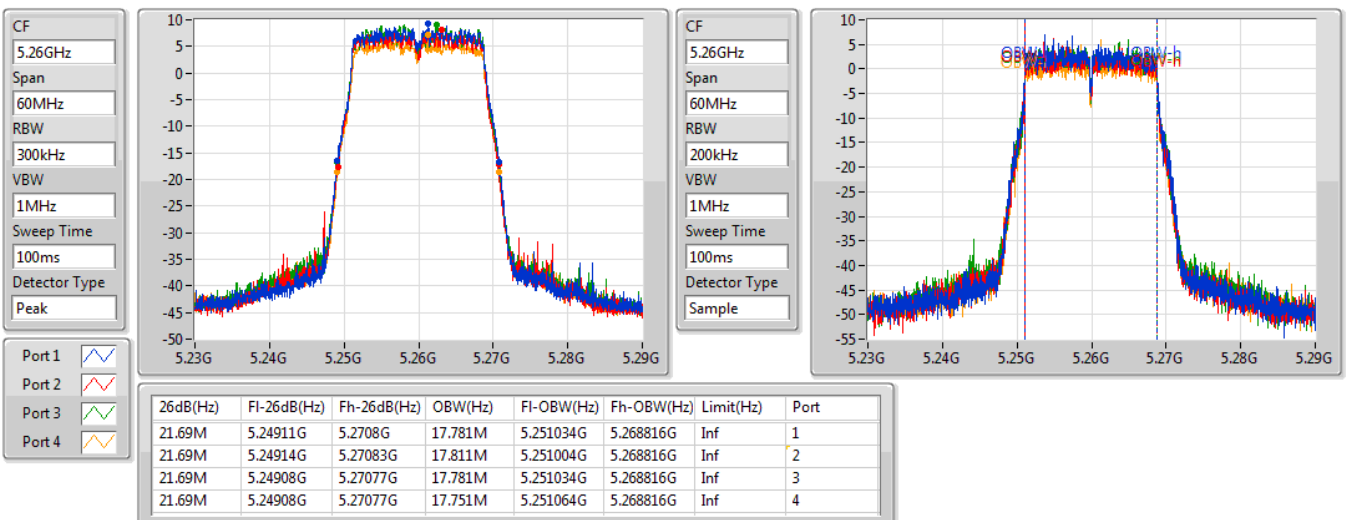


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

26/10/2019

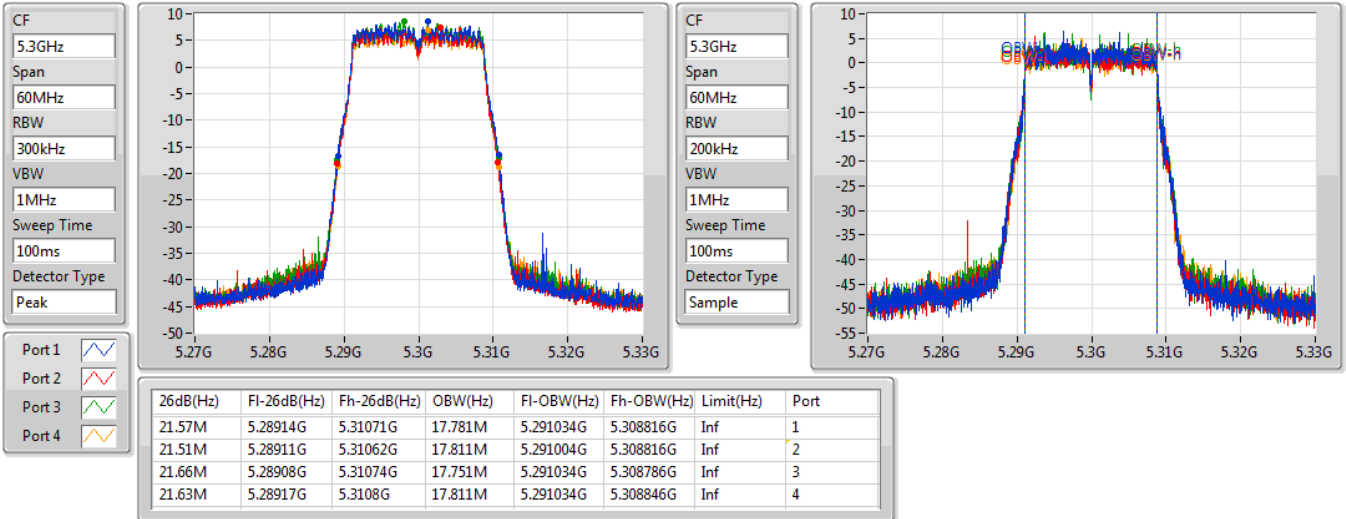

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

26/10/2019

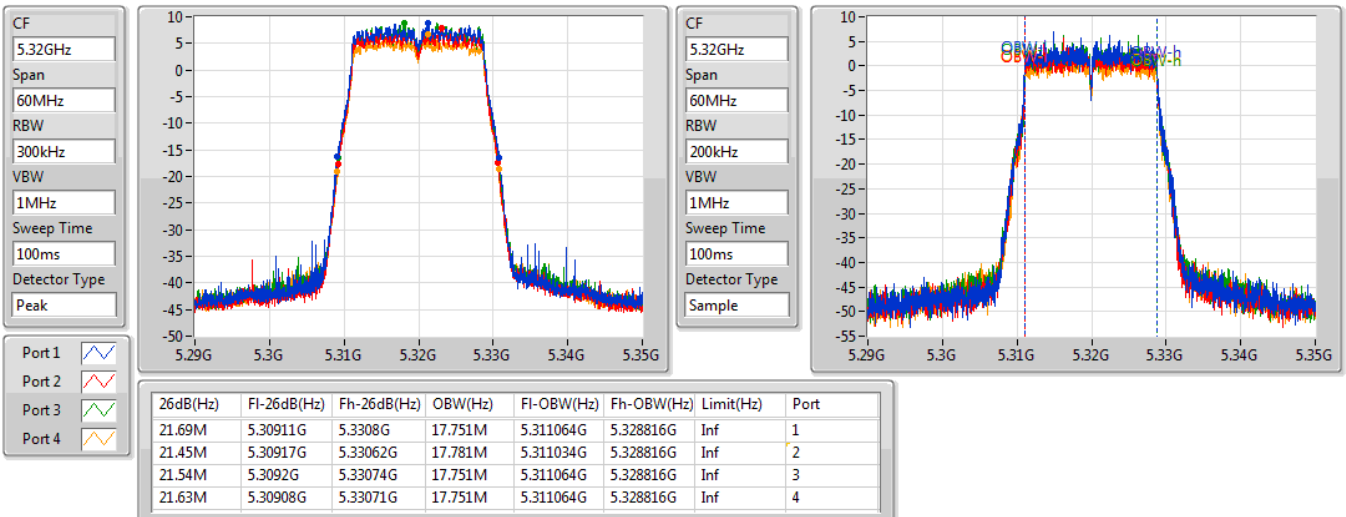


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

26/10/2019

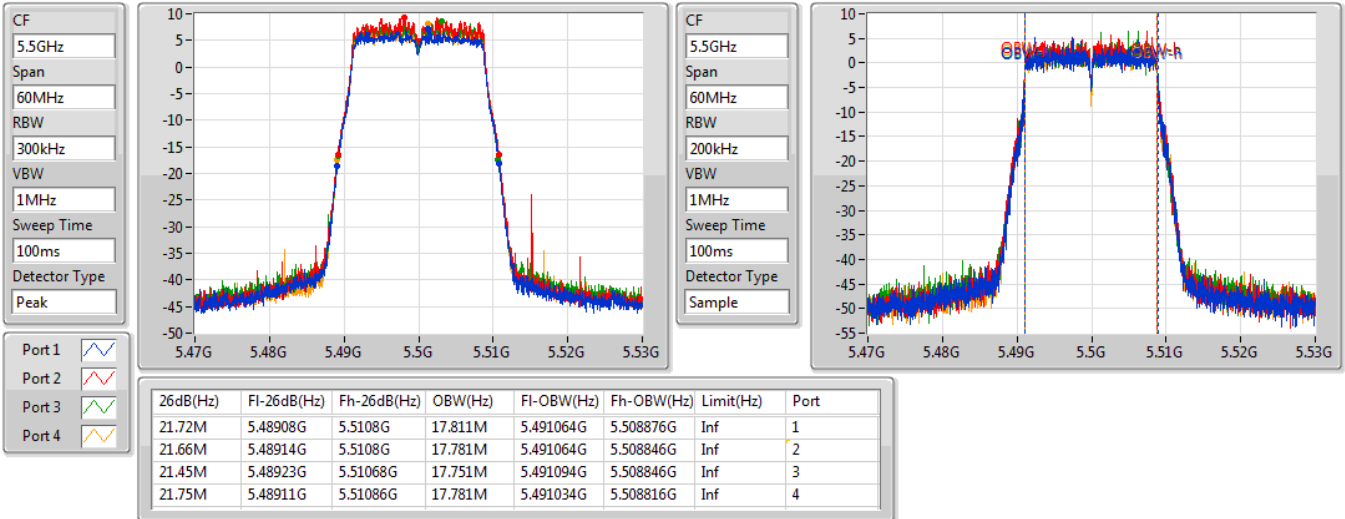

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

26/10/2019

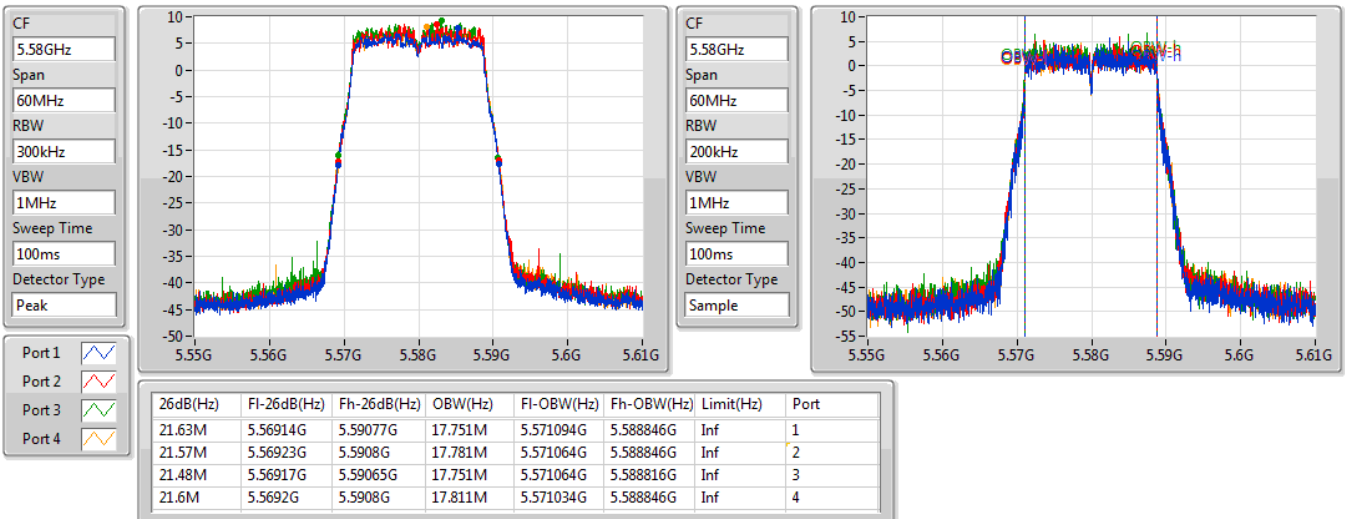


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

26/10/2019

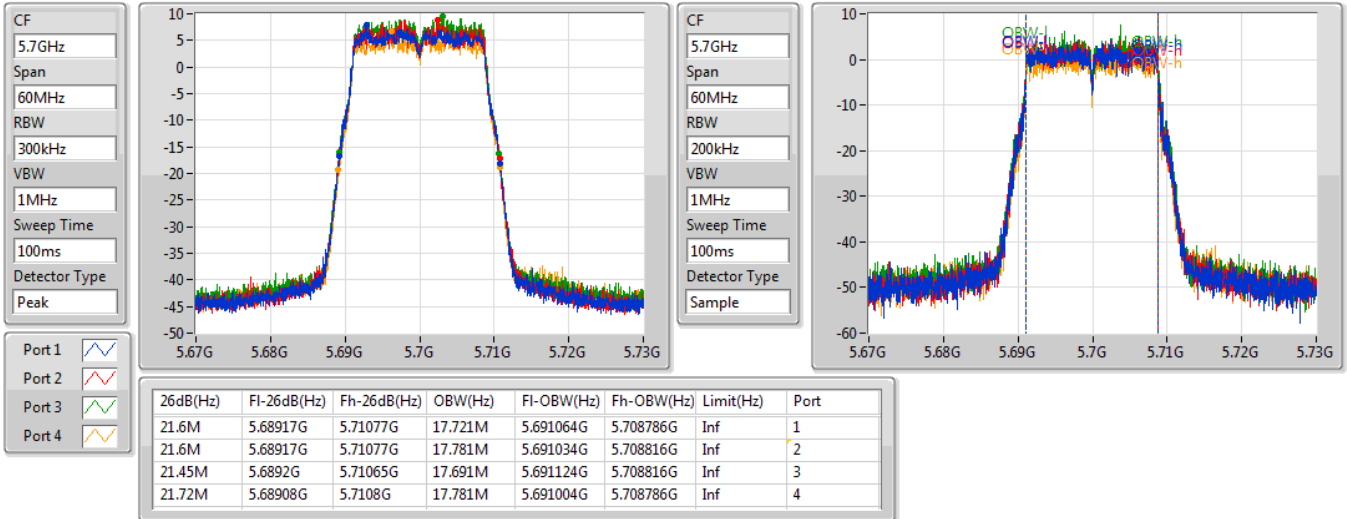

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

26/10/2019

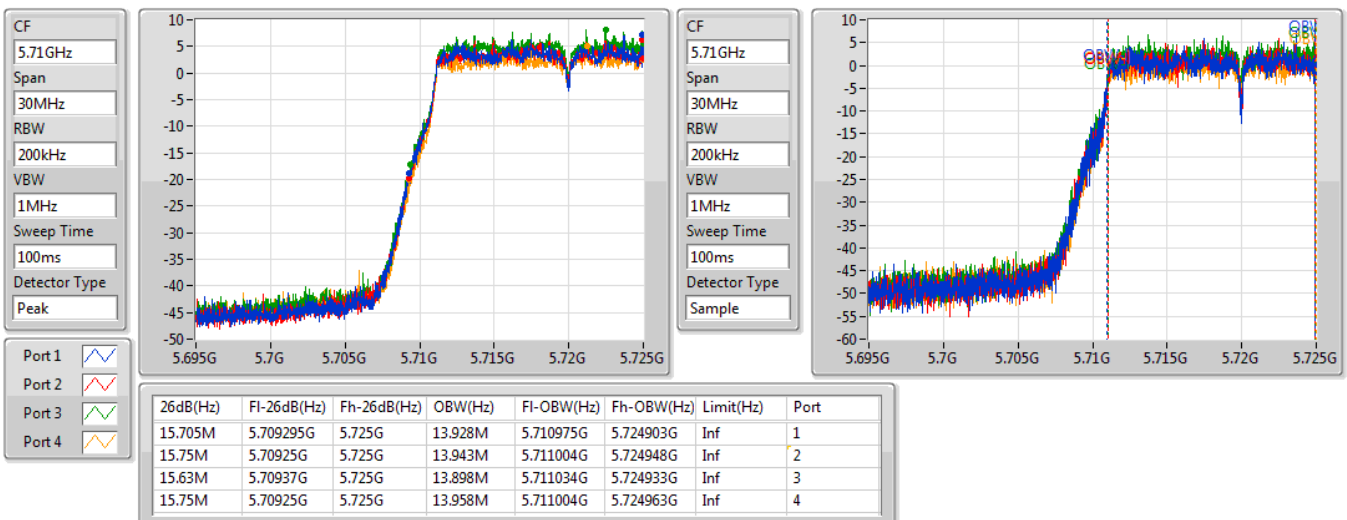


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

26/10/2019

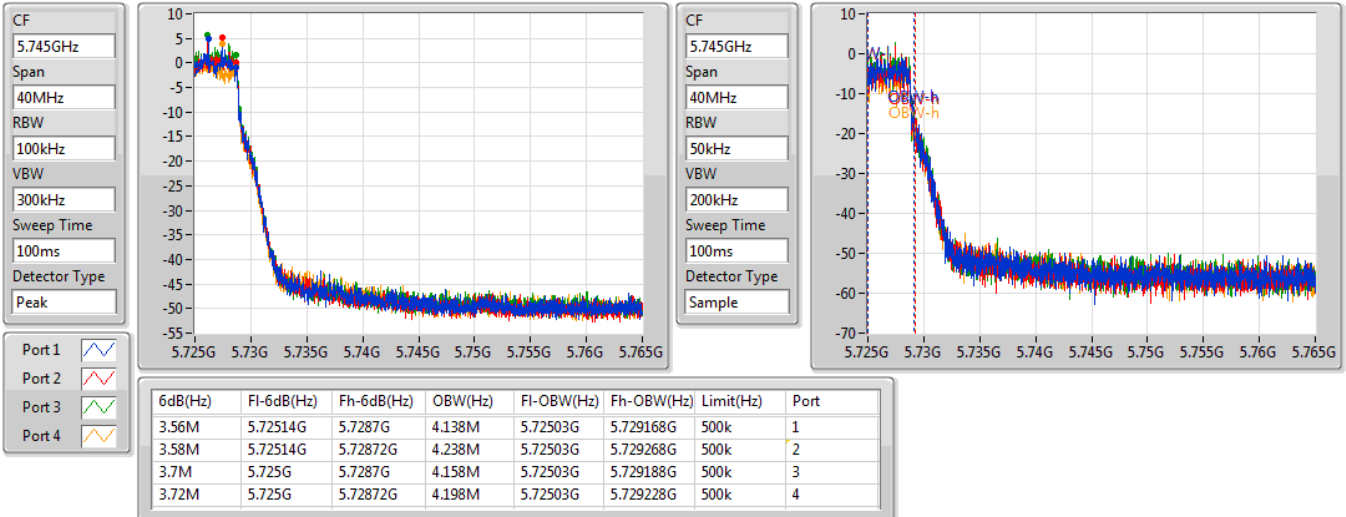

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/10/2019

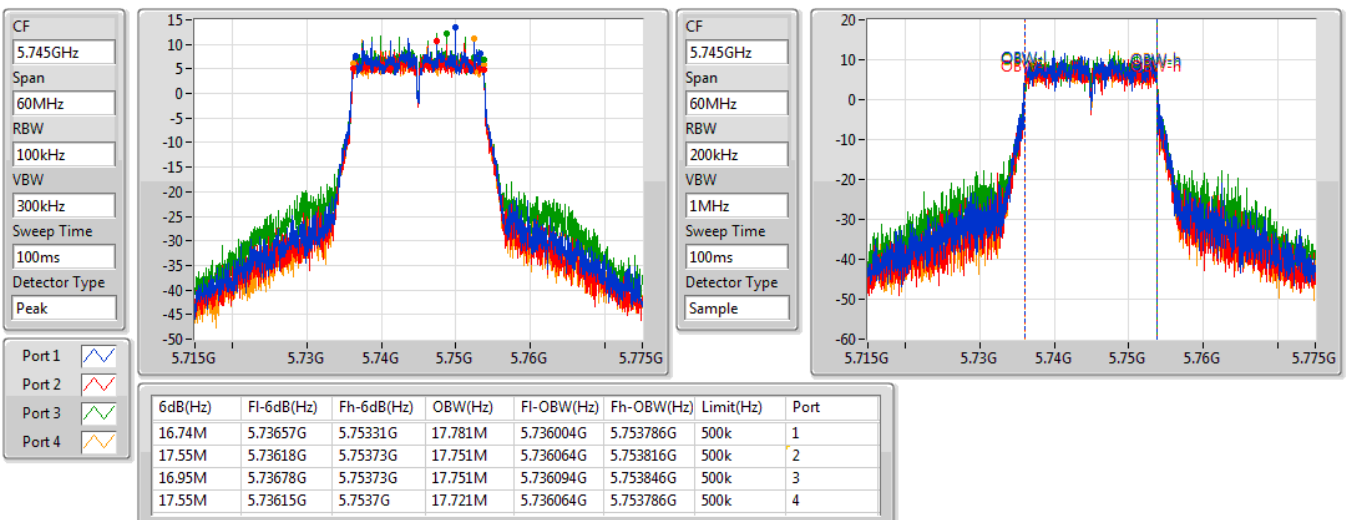


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/10/2019

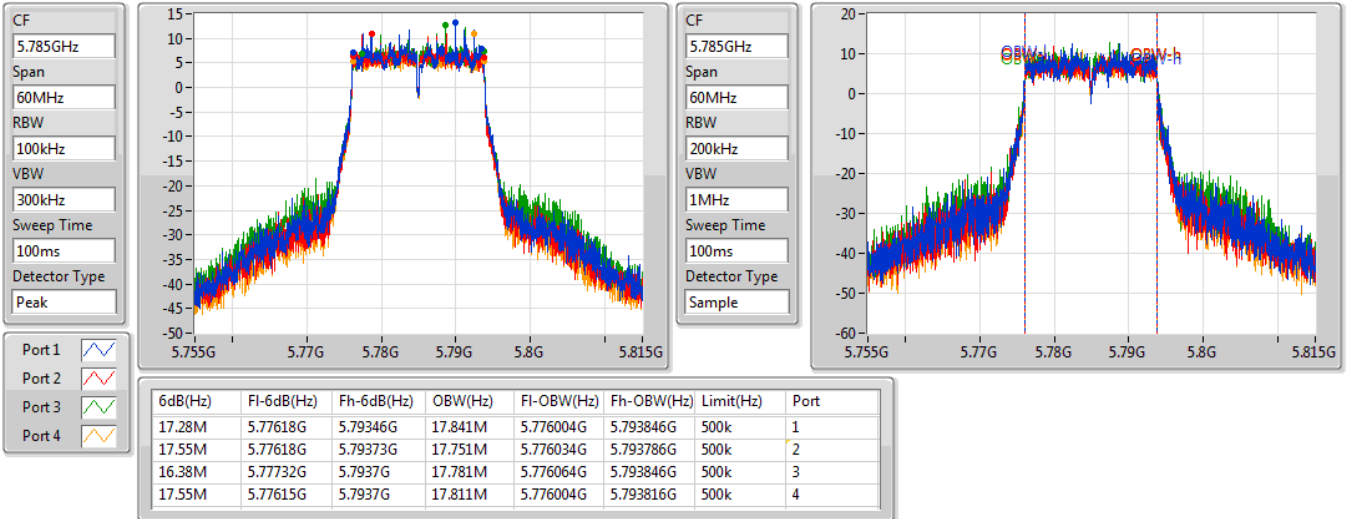

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5745MHz

26/10/2019

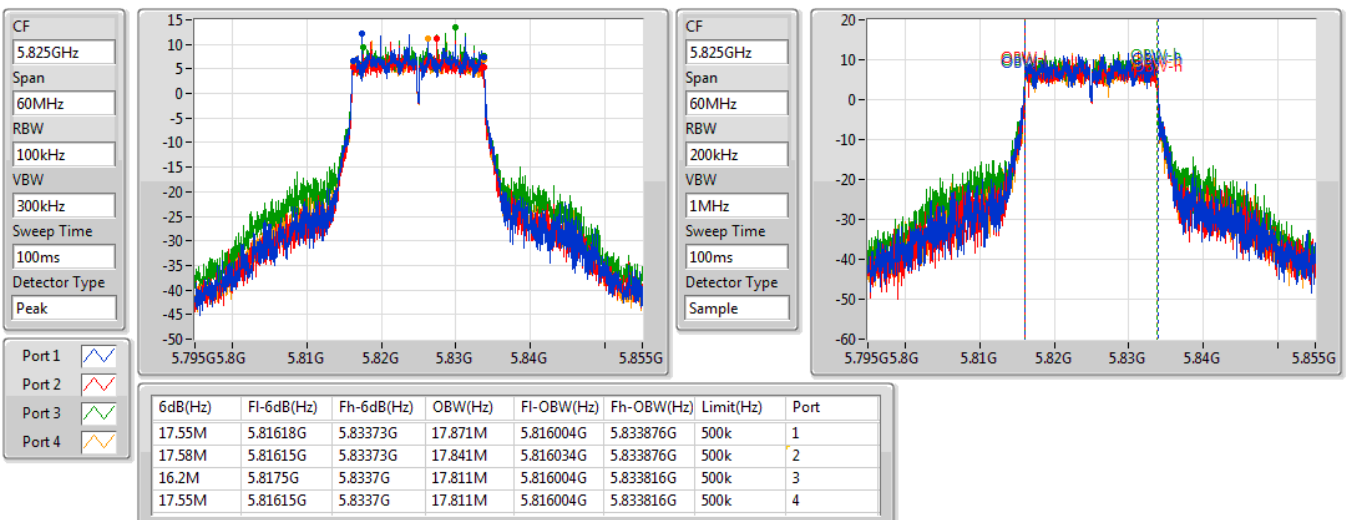


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5785MHz

26/10/2019

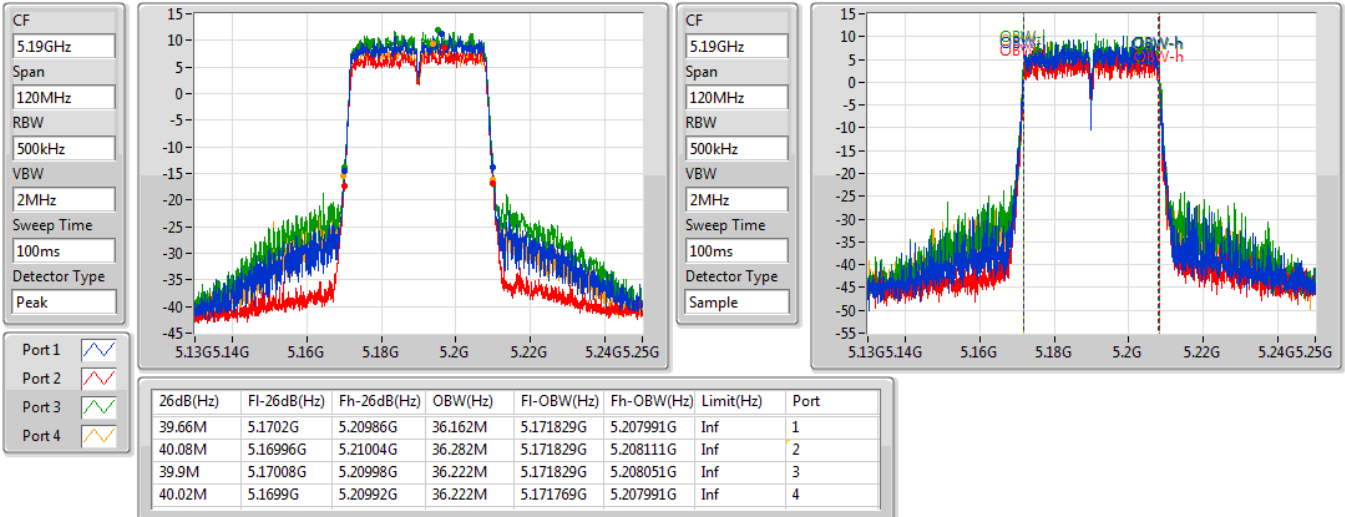

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5825MHz

26/10/2019

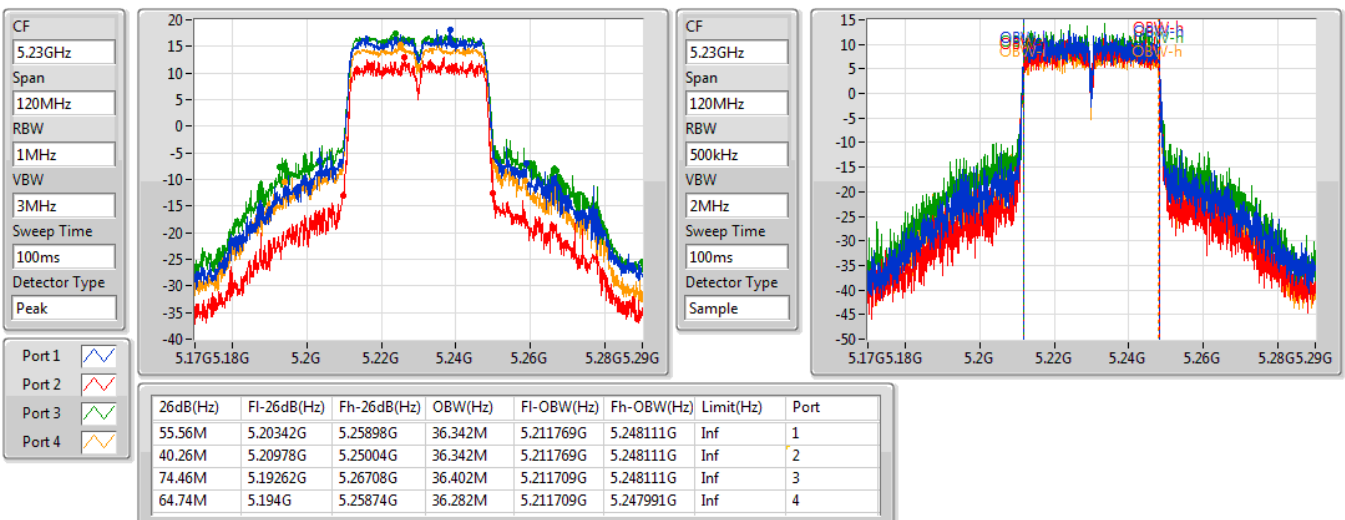


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

26/10/2019

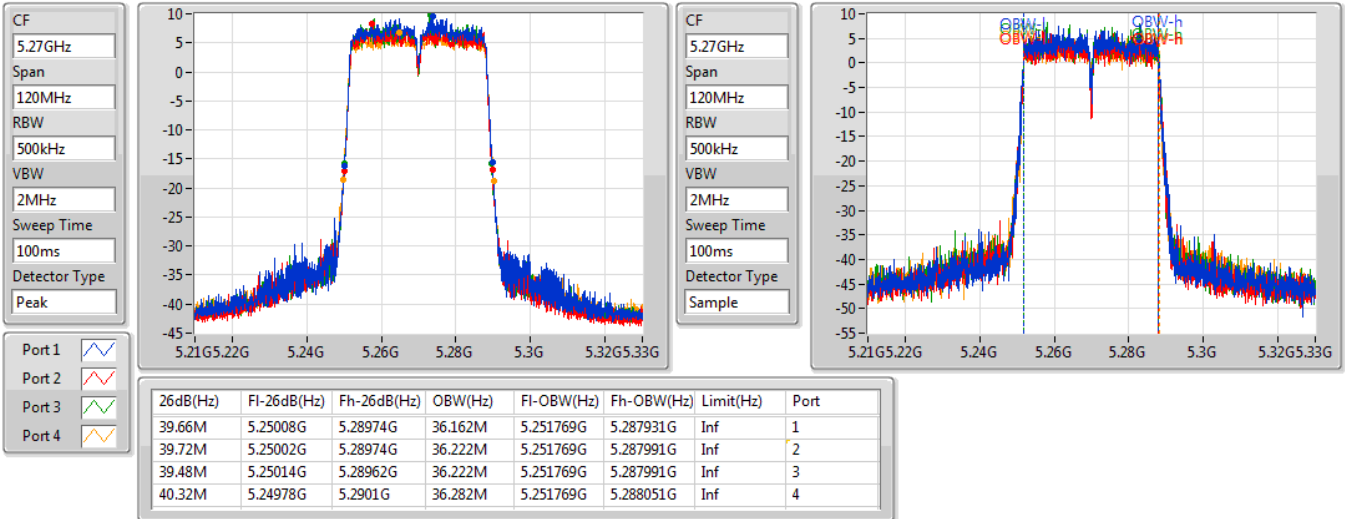

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

26/10/2019

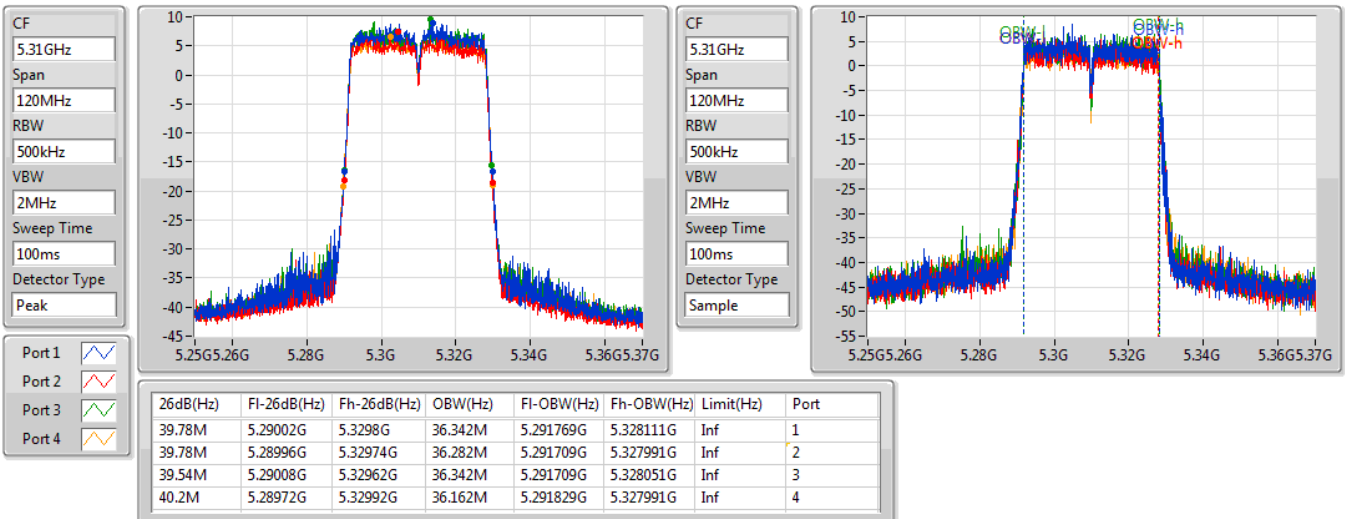


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

26/10/2019

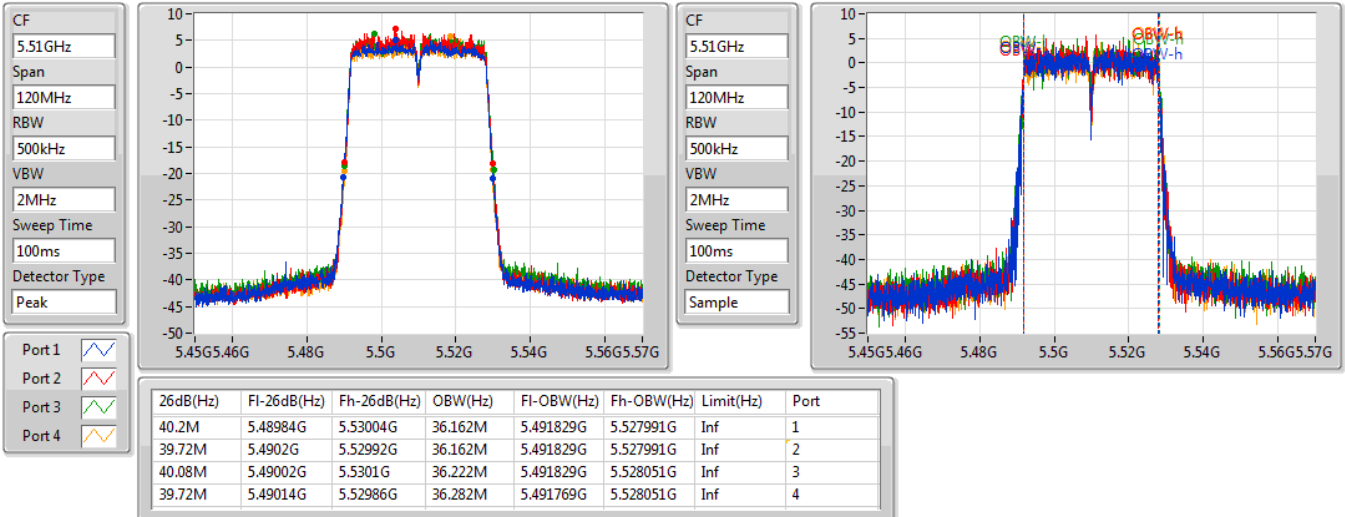

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

26/10/2019

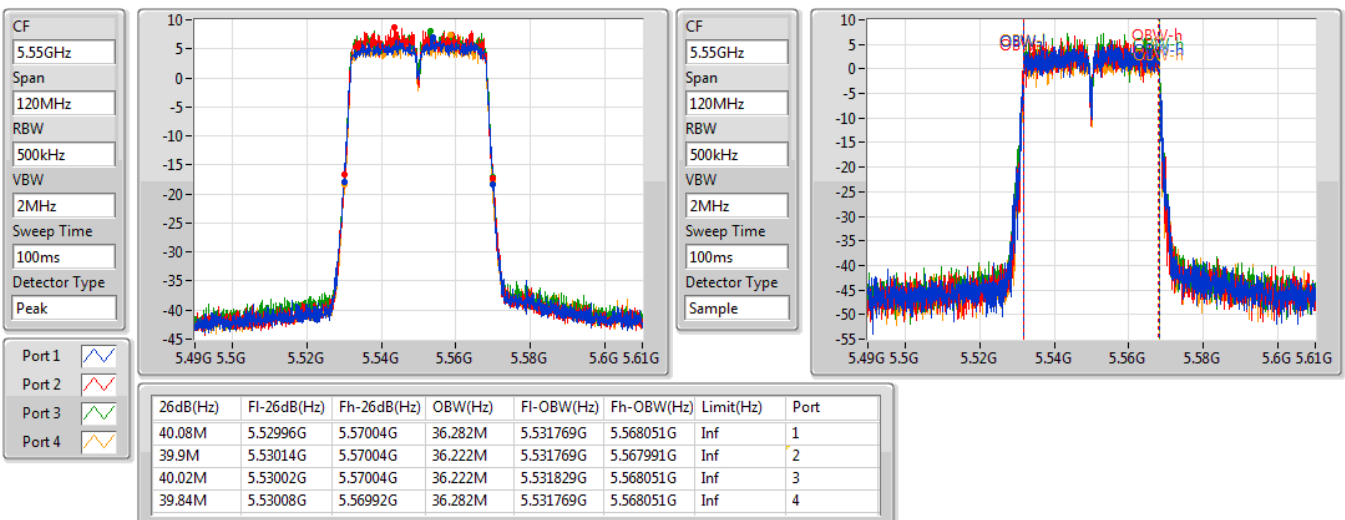


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

26/10/2019

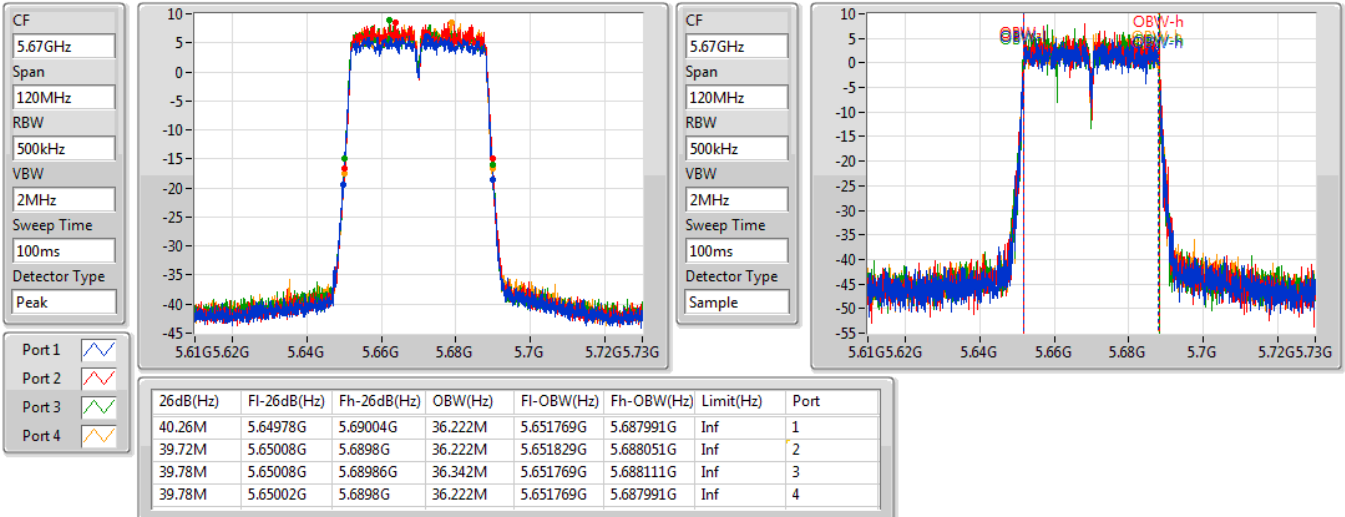

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EBW
5550MHz

26/10/2019

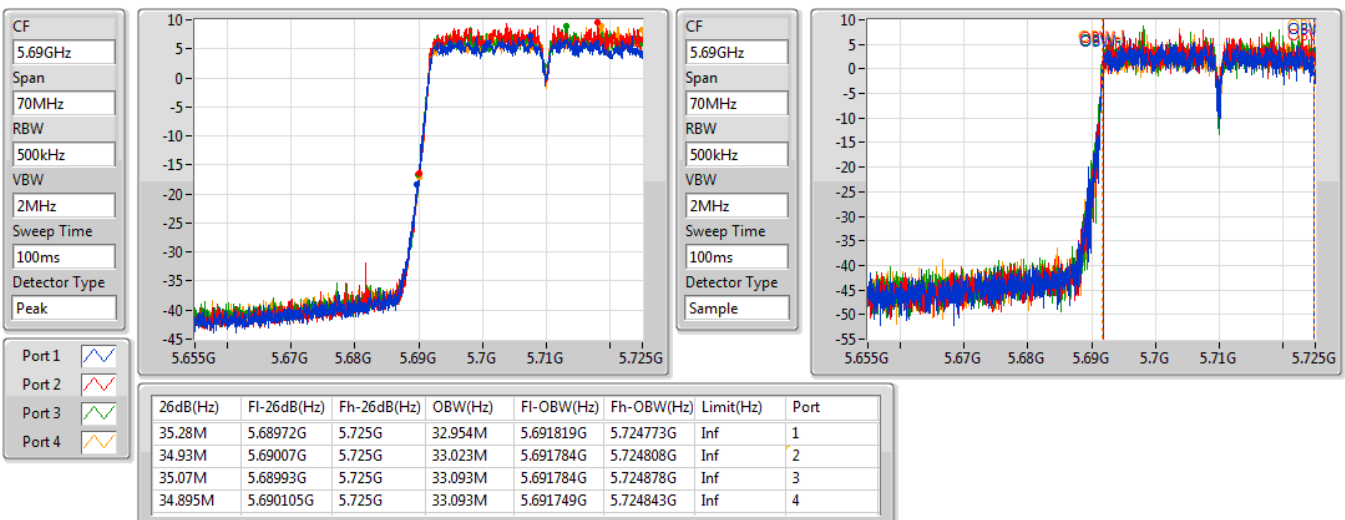


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

26/10/2019

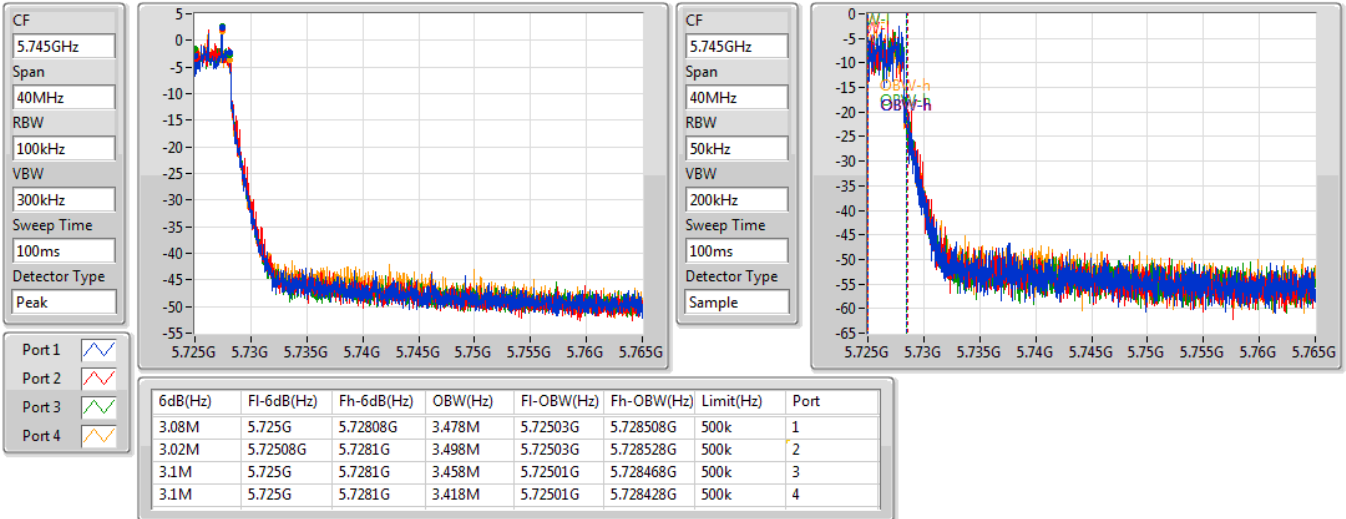

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

26/10/2019

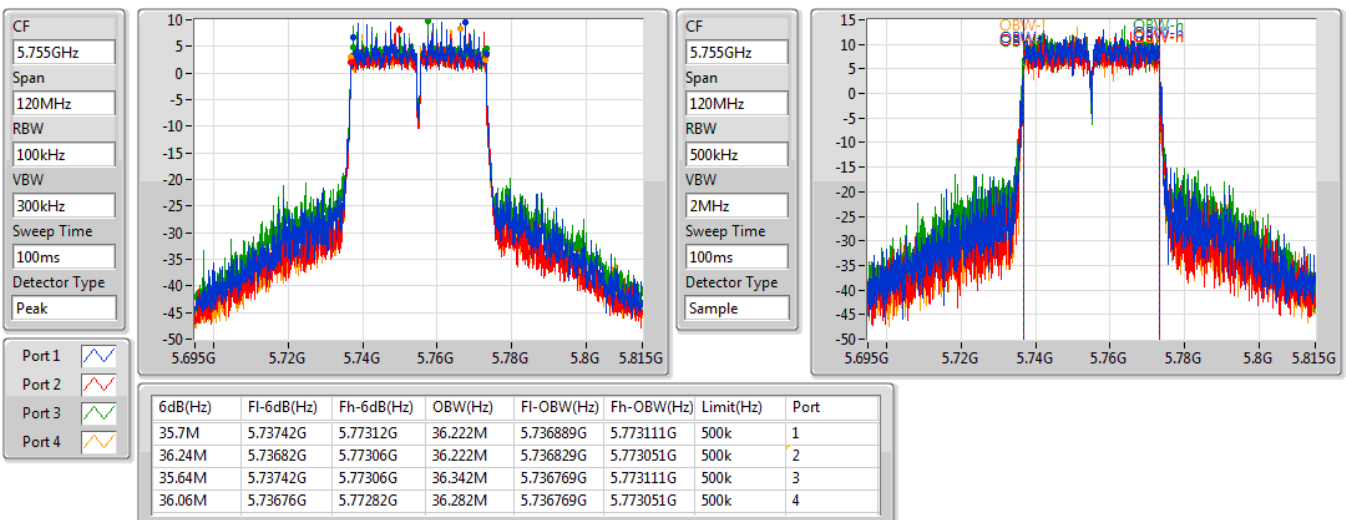


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

26/10/2019

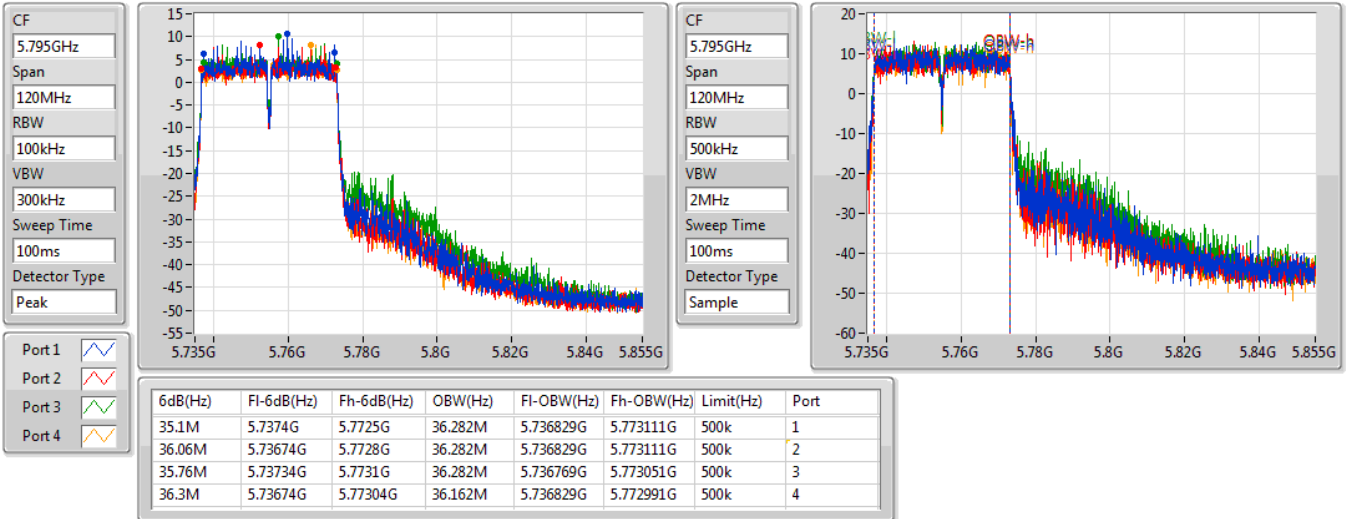

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5755MHz

26/10/2019

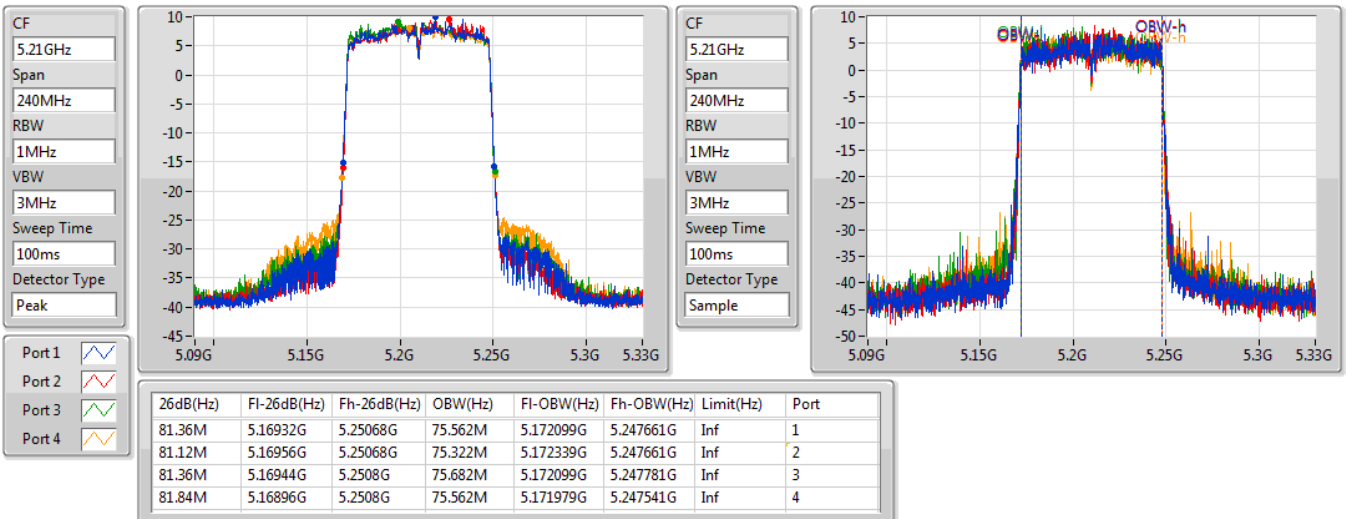


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5795MHz

26/10/2019

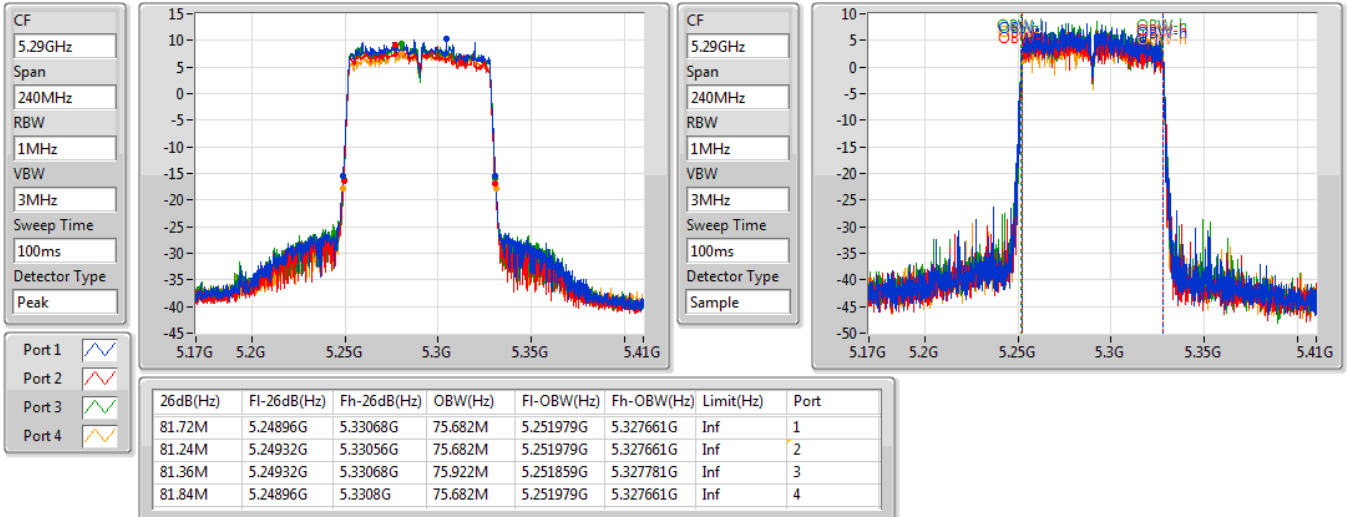

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EBW
5210MHz

26/10/2019

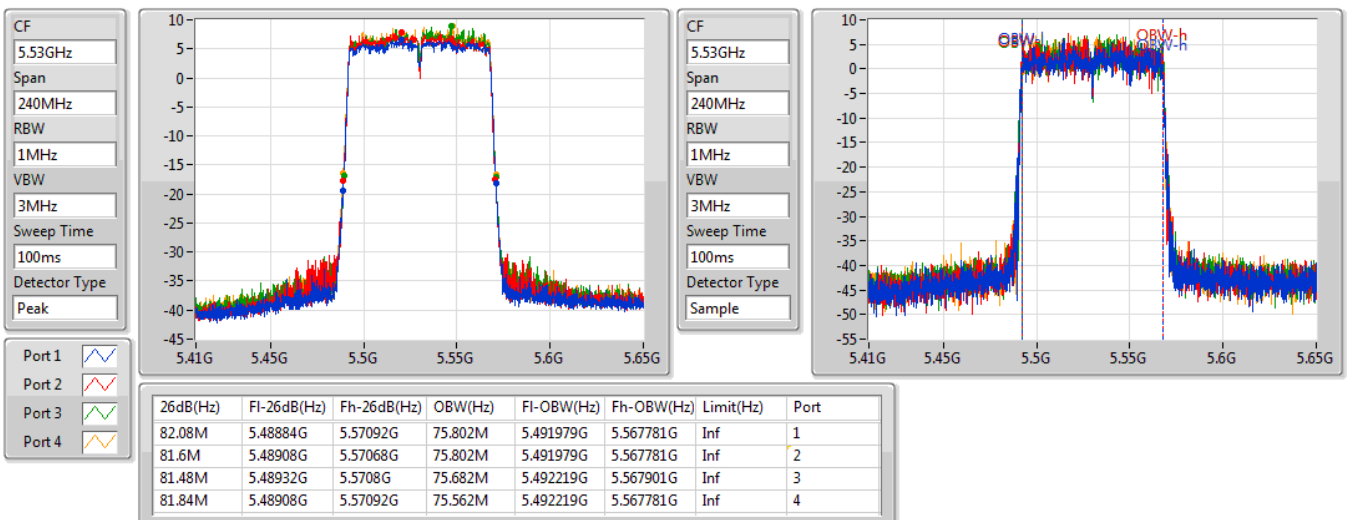


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

26/10/2019

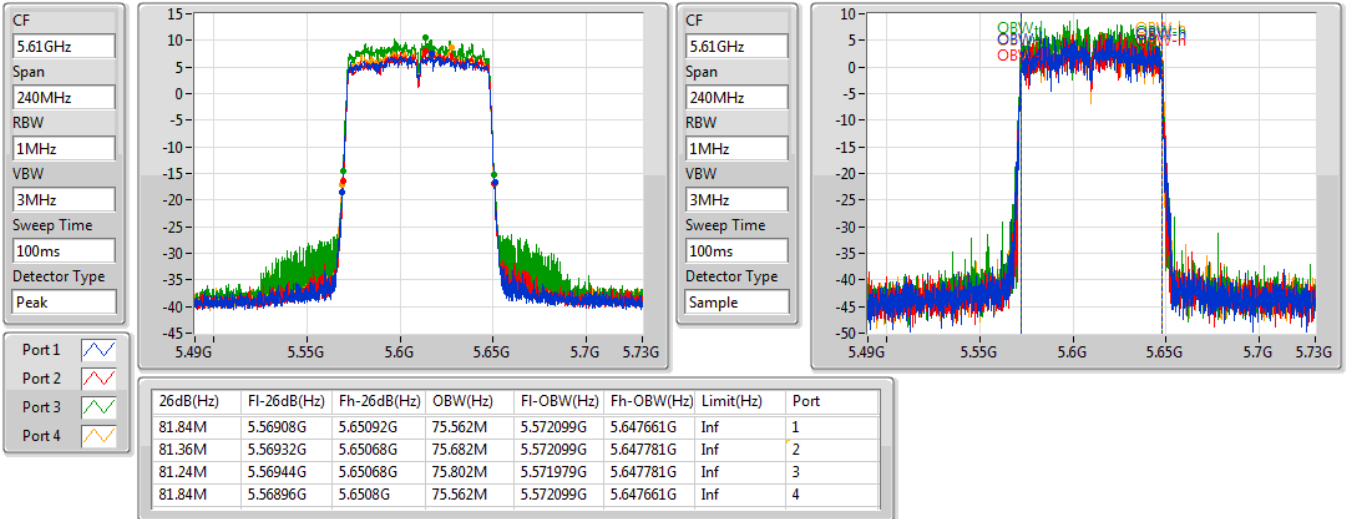

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

26/10/2019

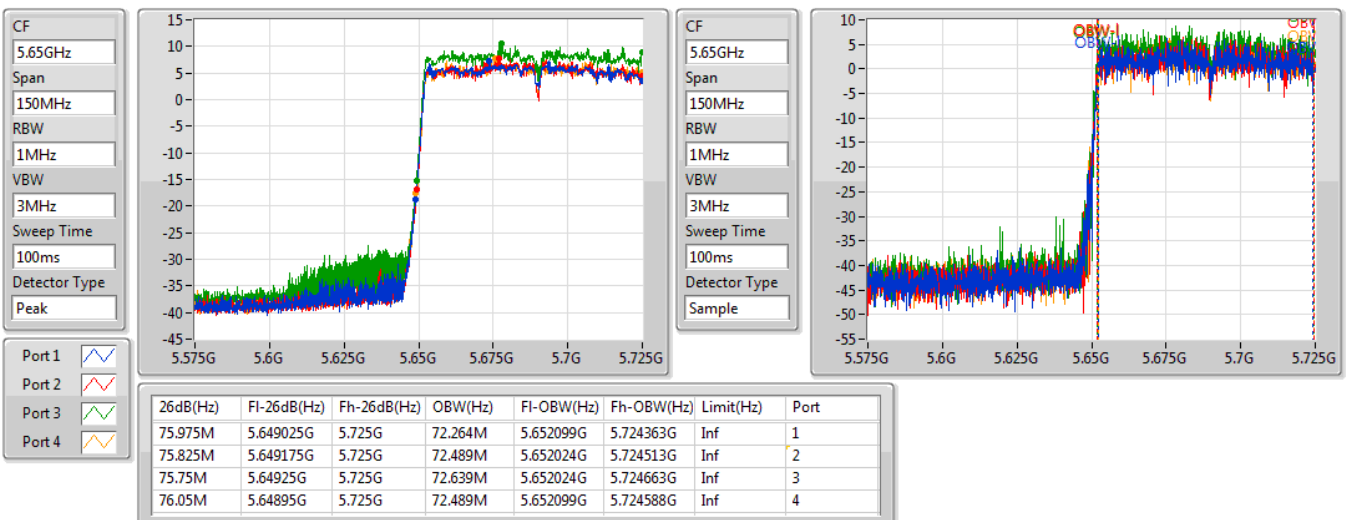


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

26/10/2019

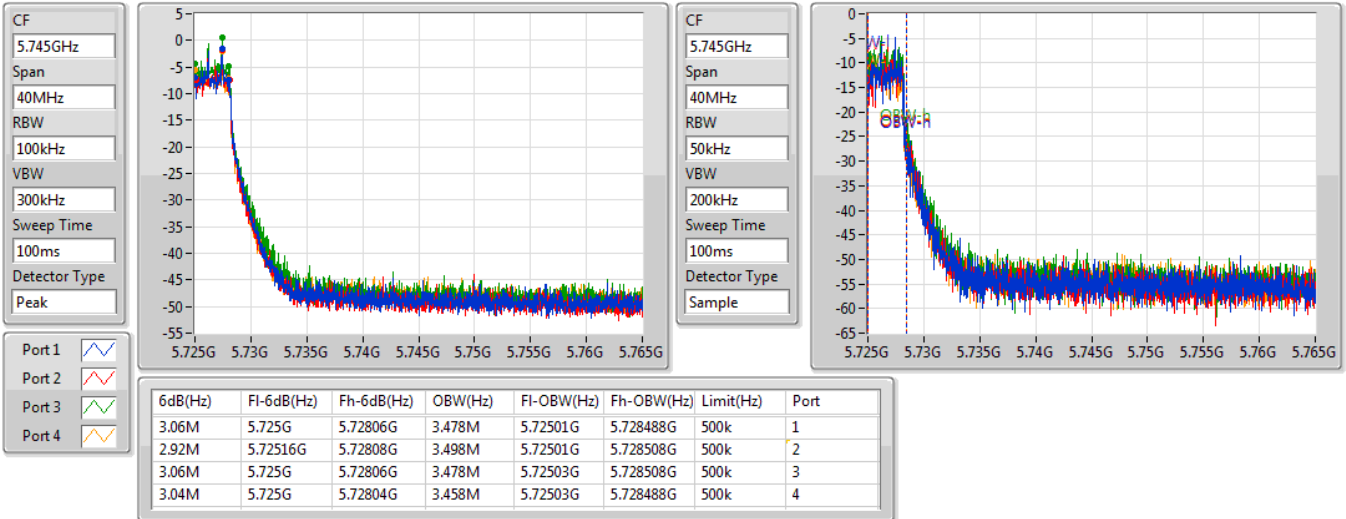

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

26/10/2019

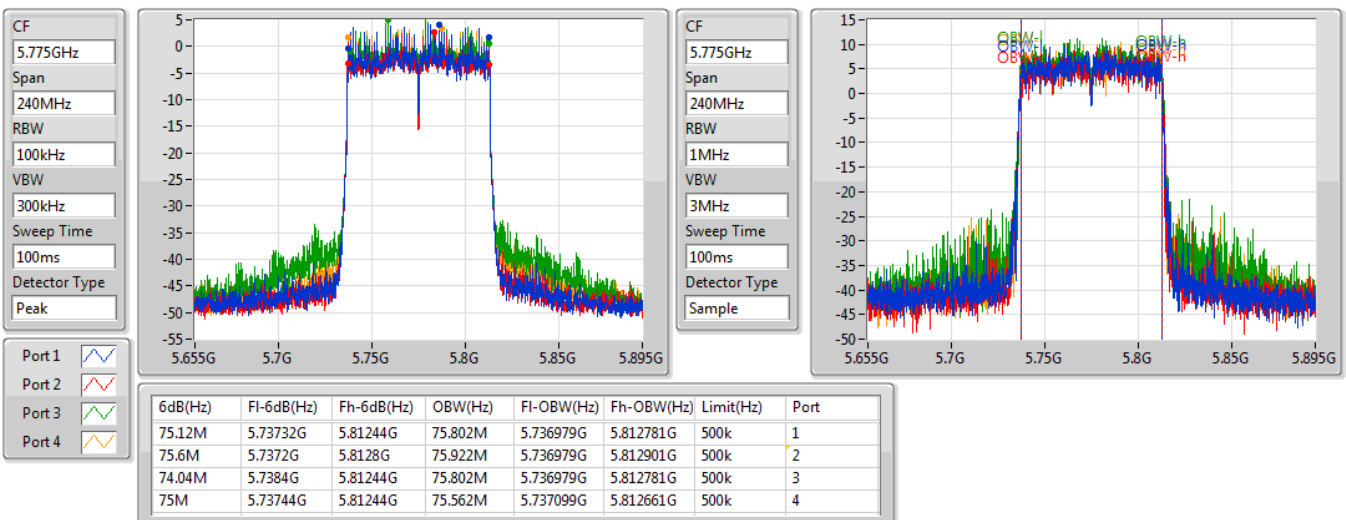


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

26/10/2019

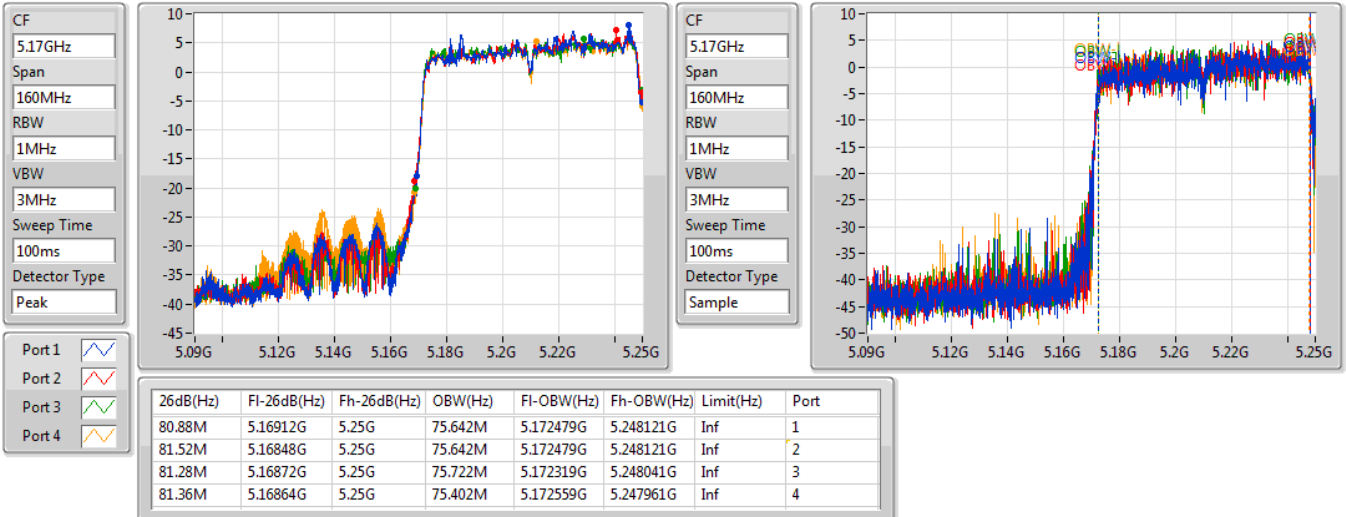

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

26/10/2019

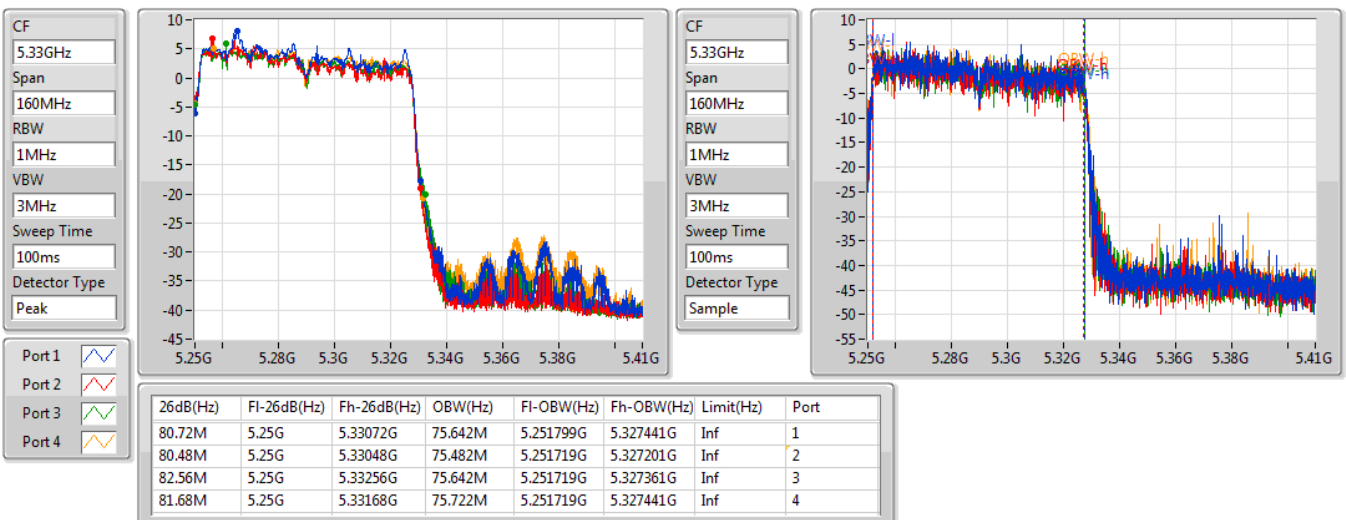


802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

26/10/2019

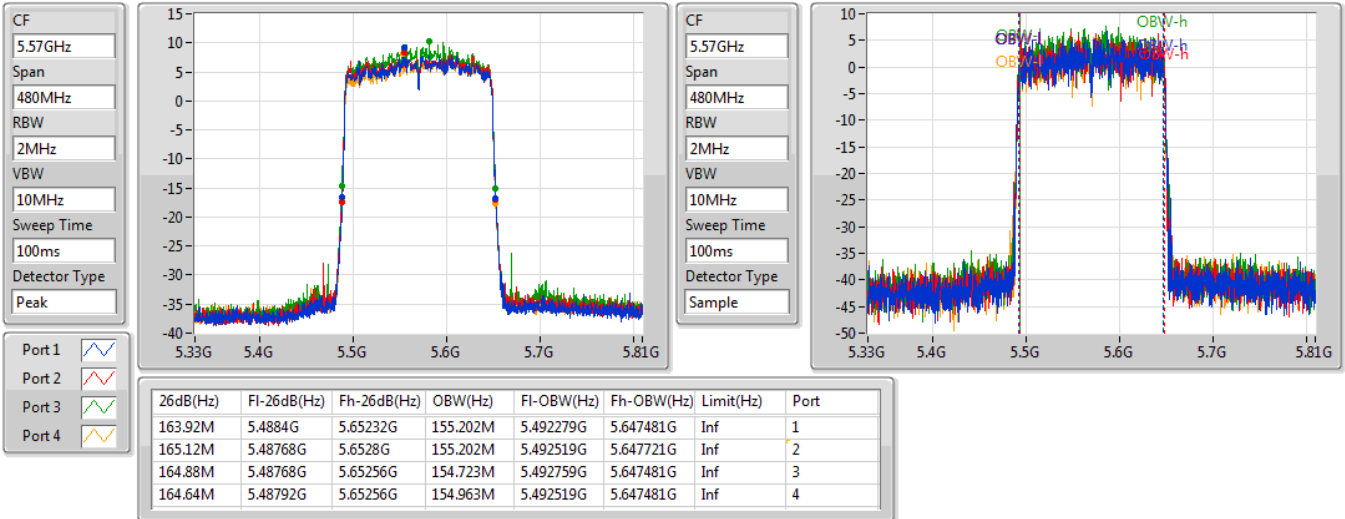

802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

26/10/2019

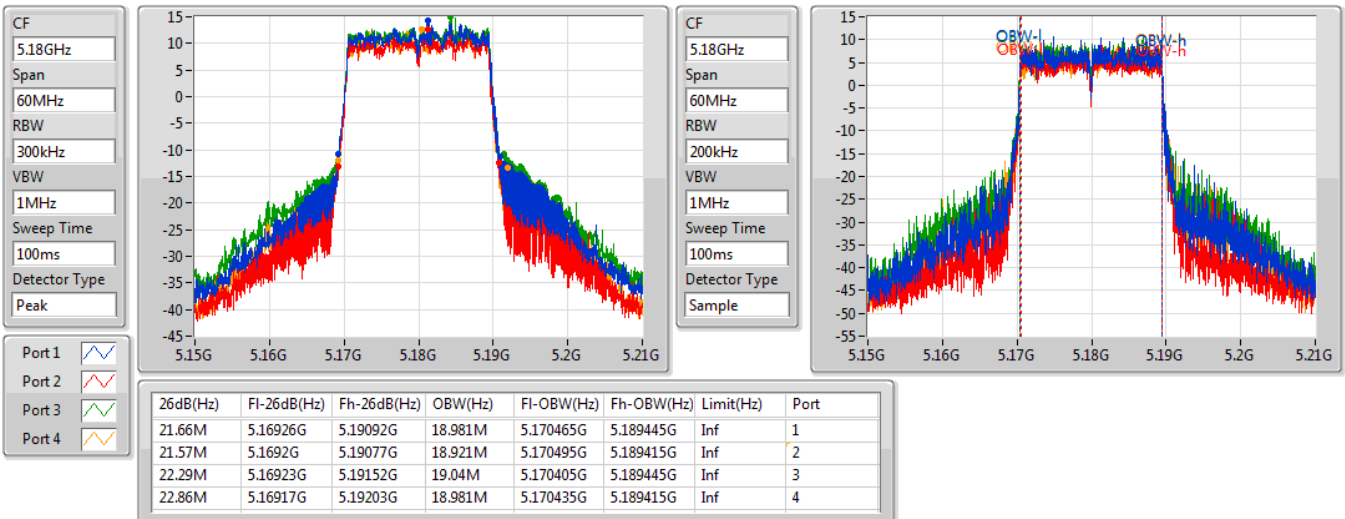


802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

26/10/2019

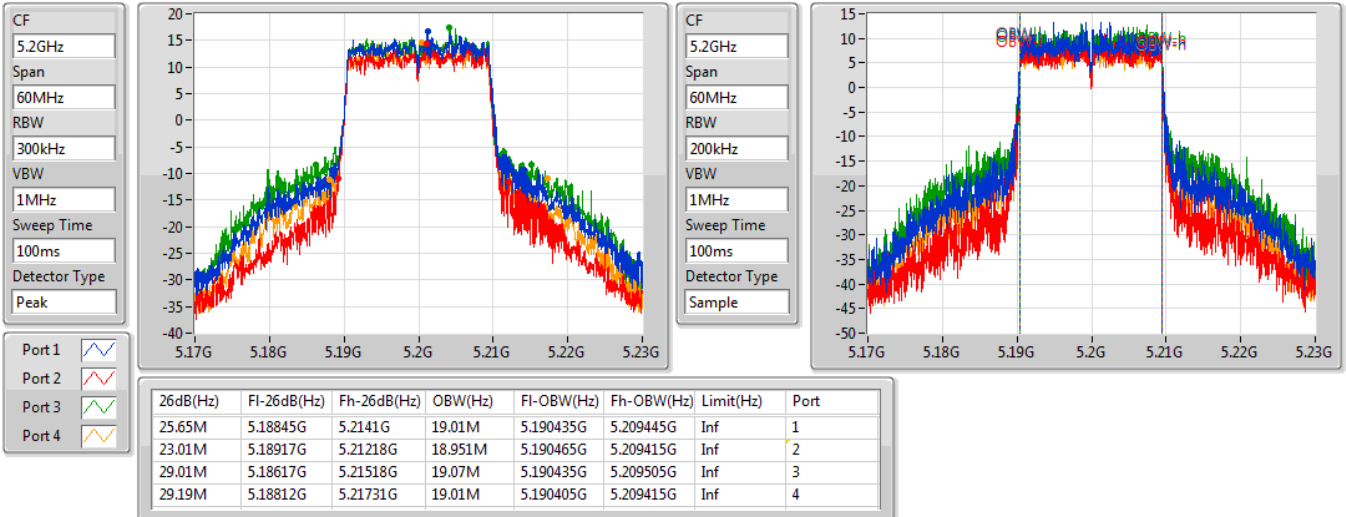

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

26/10/2019

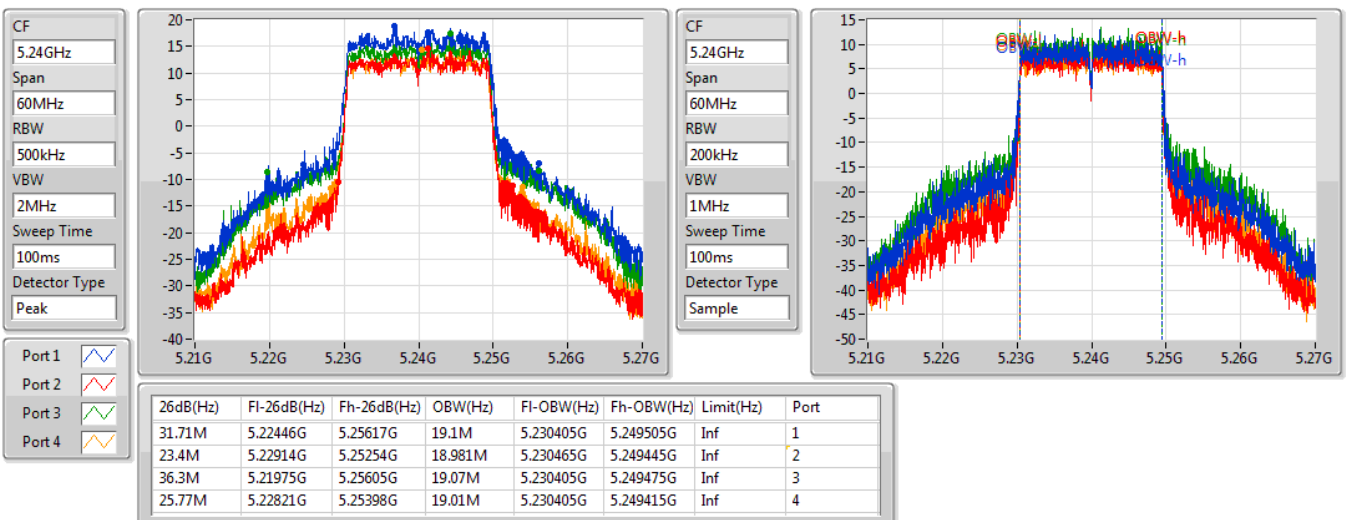


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EBW
5200MHz

26/10/2019

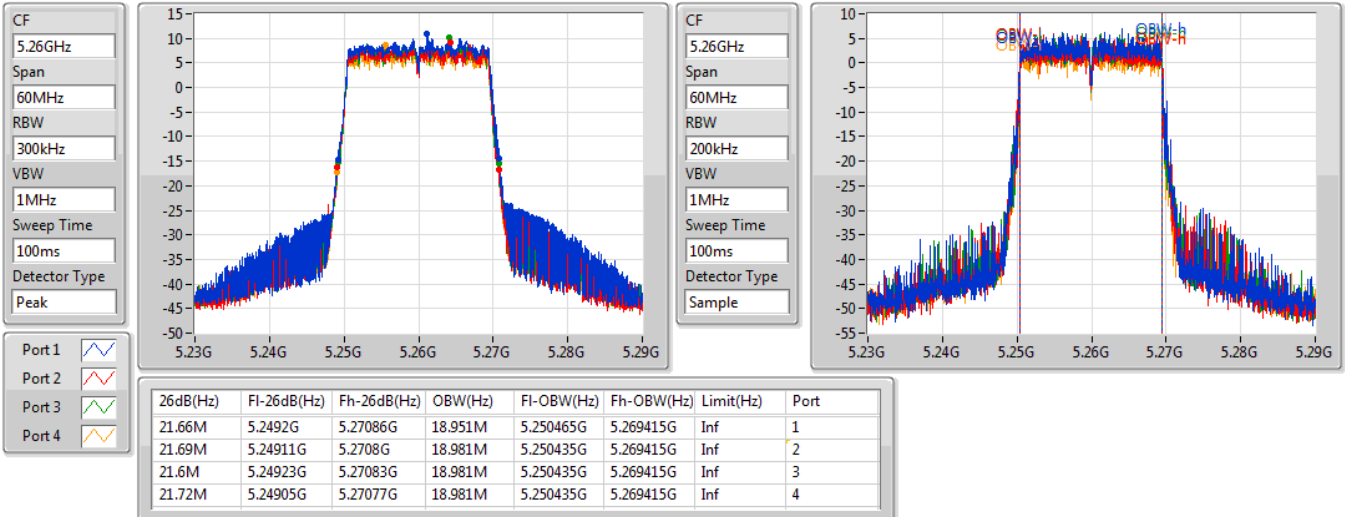

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EBW
5240MHz

26/10/2019

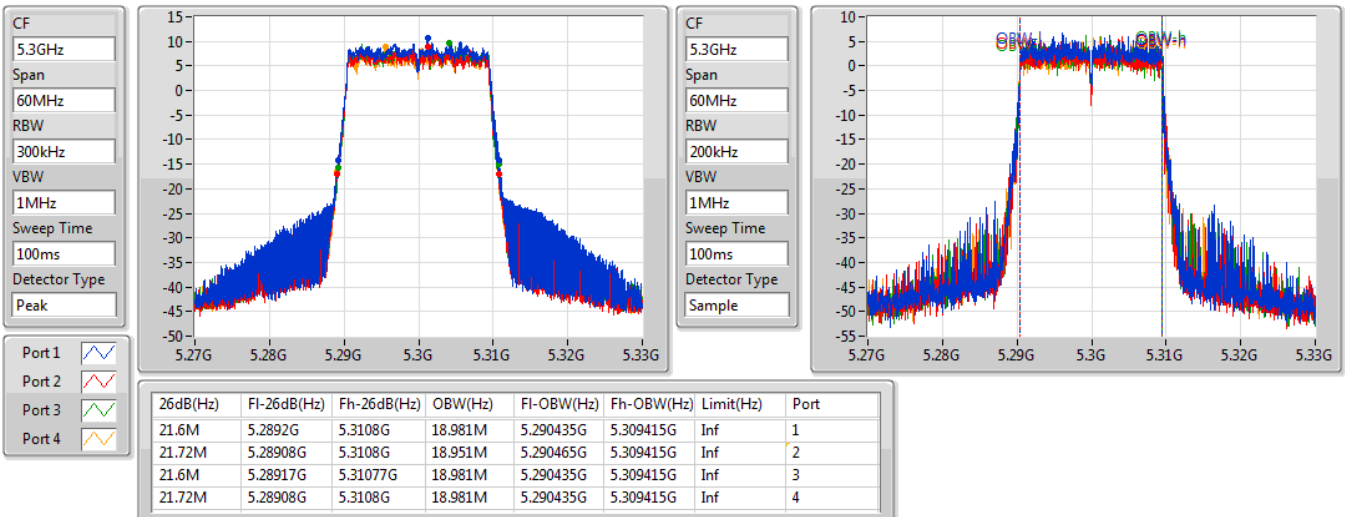


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EBW
5260MHz

26/10/2019

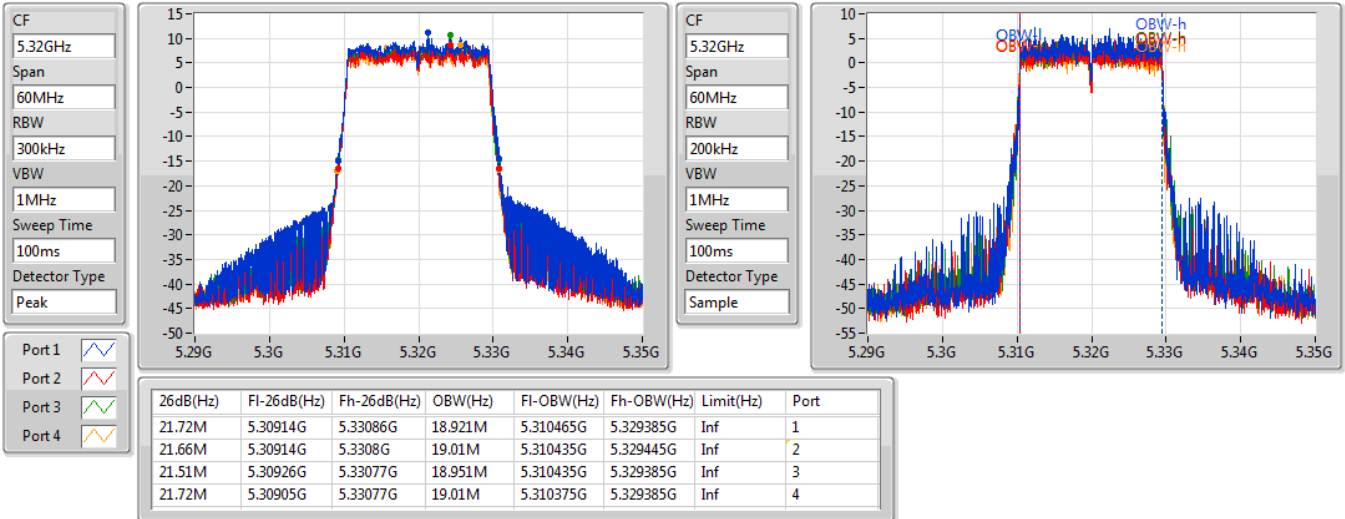

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

26/10/2019

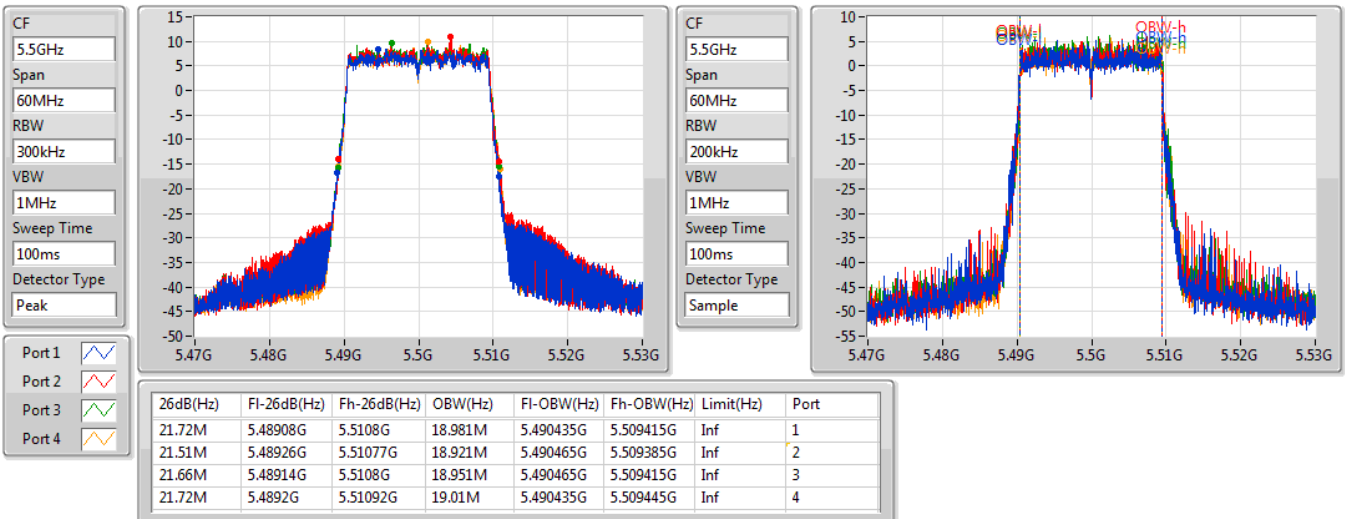


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EBW
5320MHz

26/10/2019

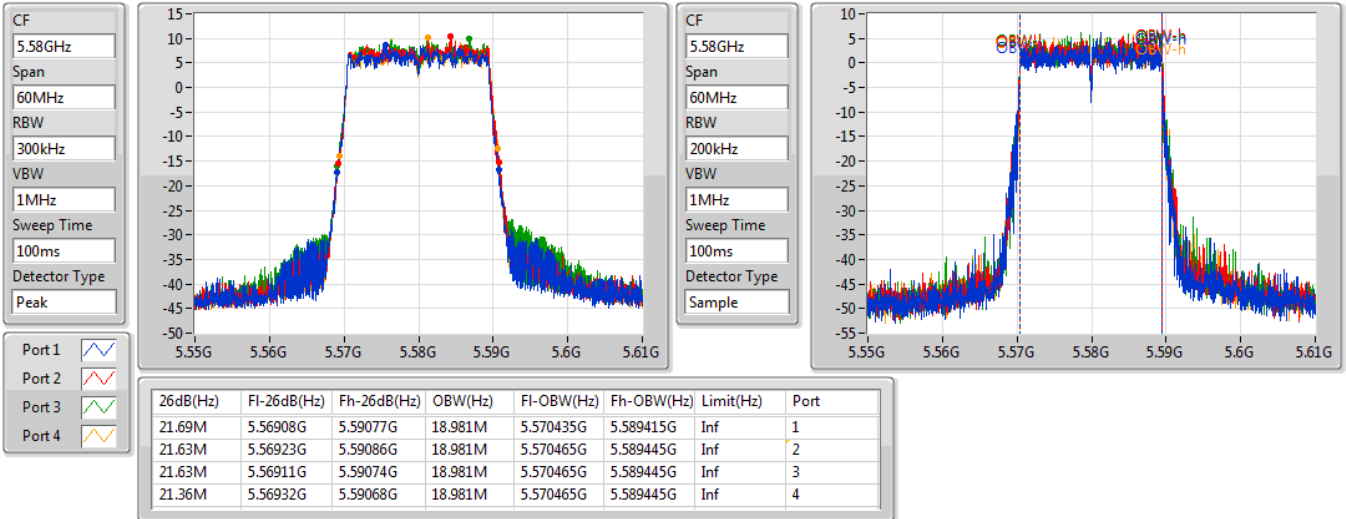

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EBW
5500MHz

26/10/2019

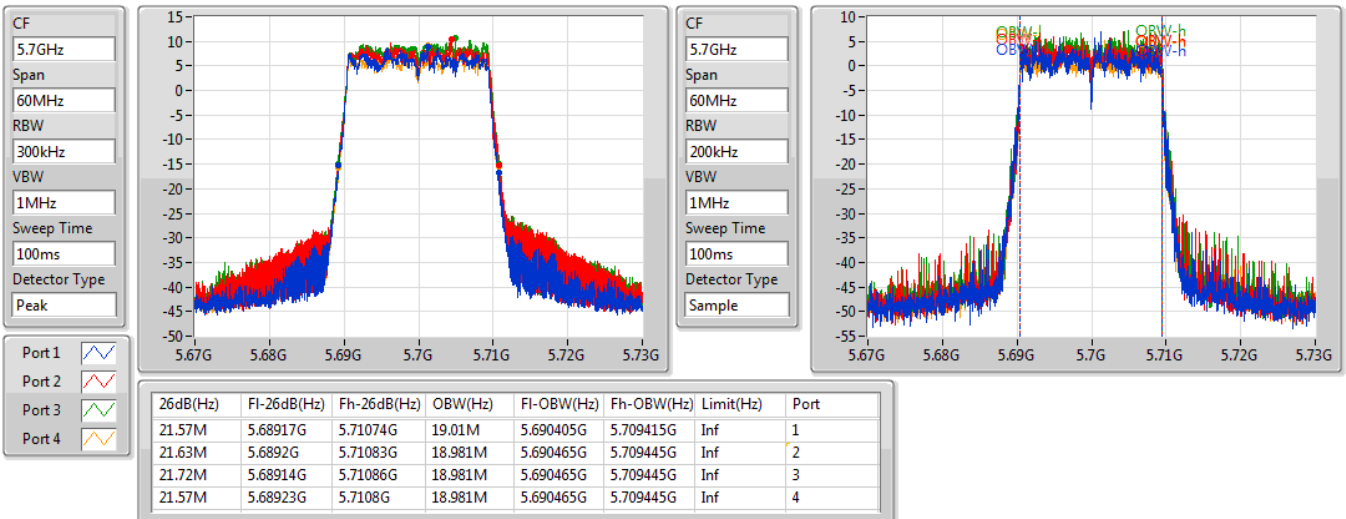


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

26/10/2019

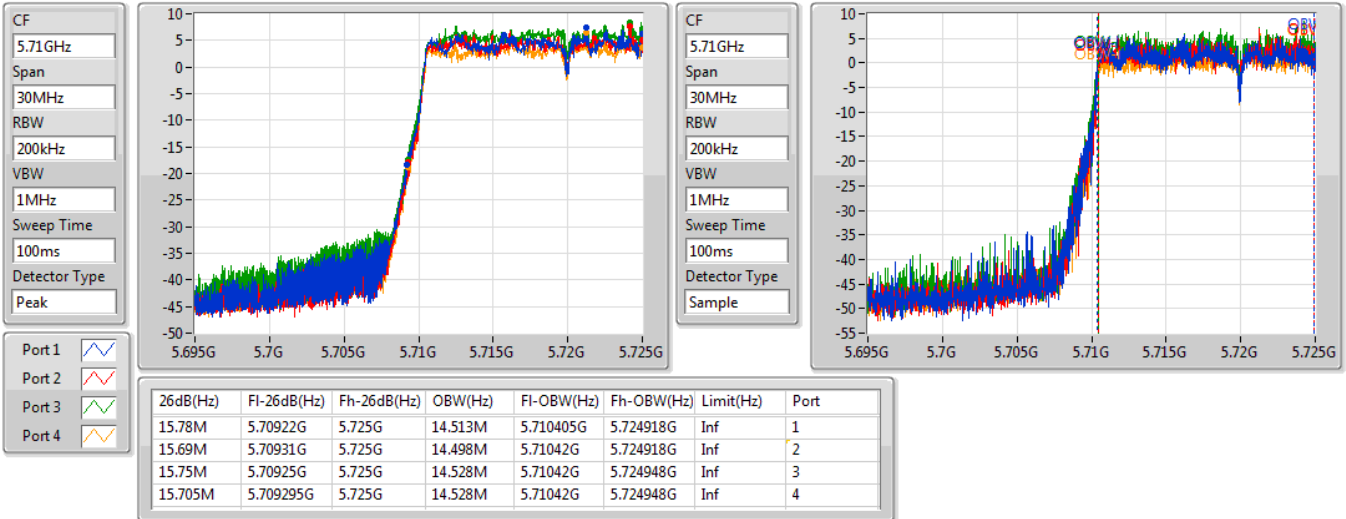

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

26/10/2019

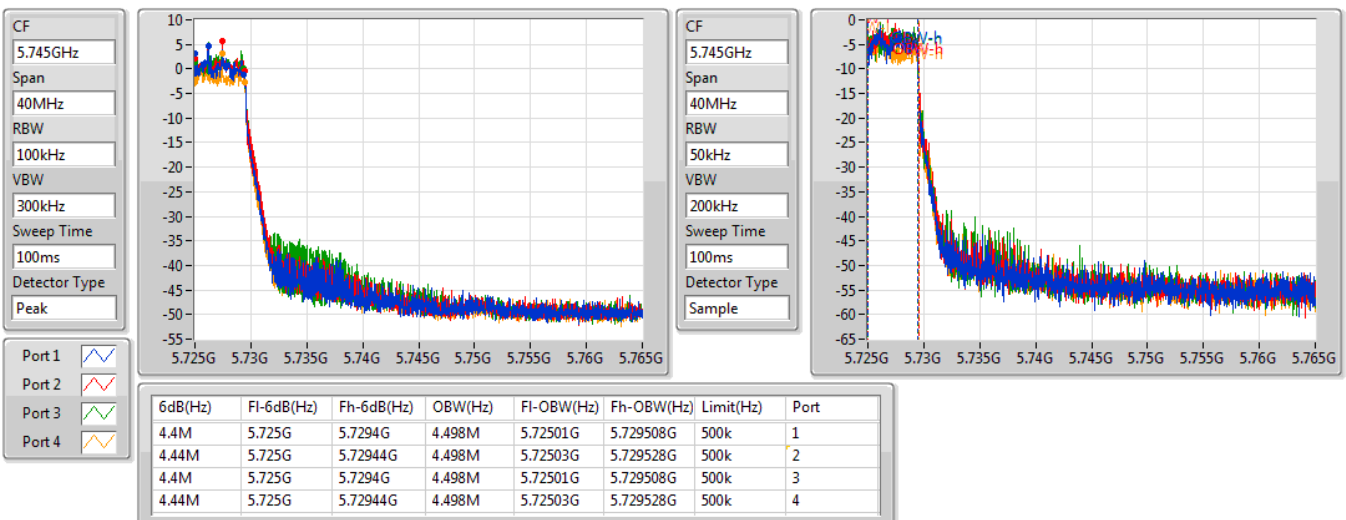


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/10/2019

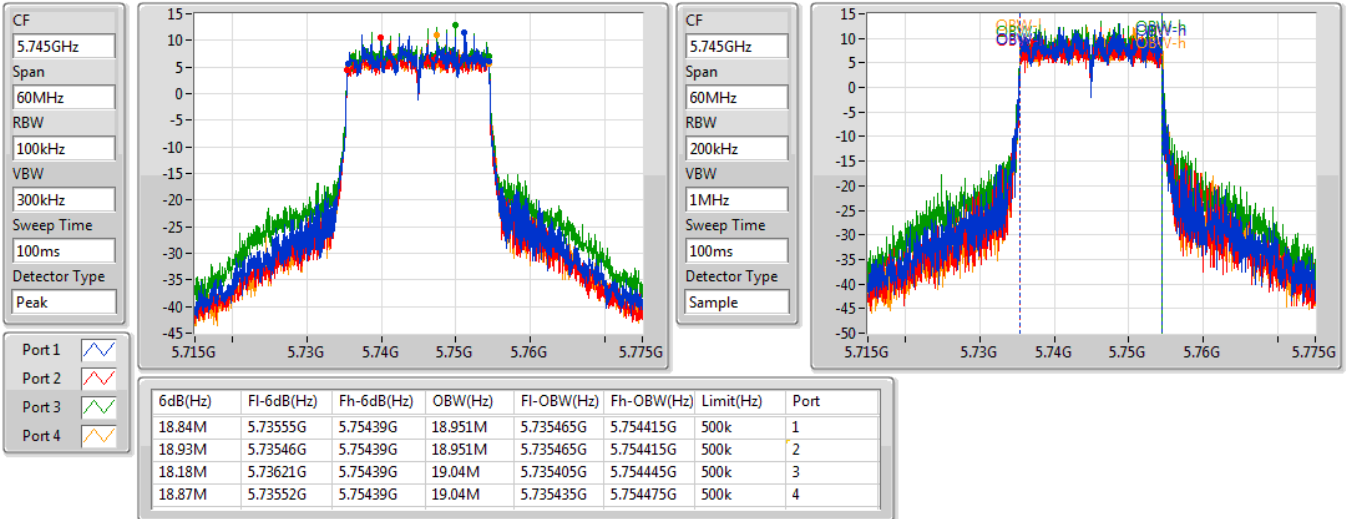

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/10/2019

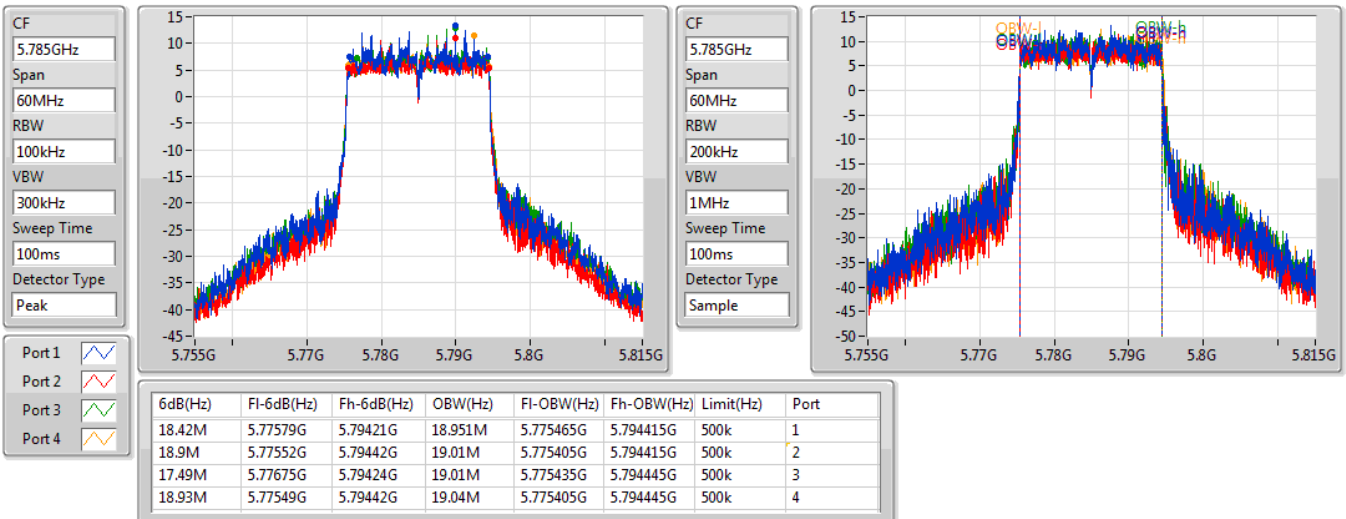


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EBW
5745MHz

26/10/2019

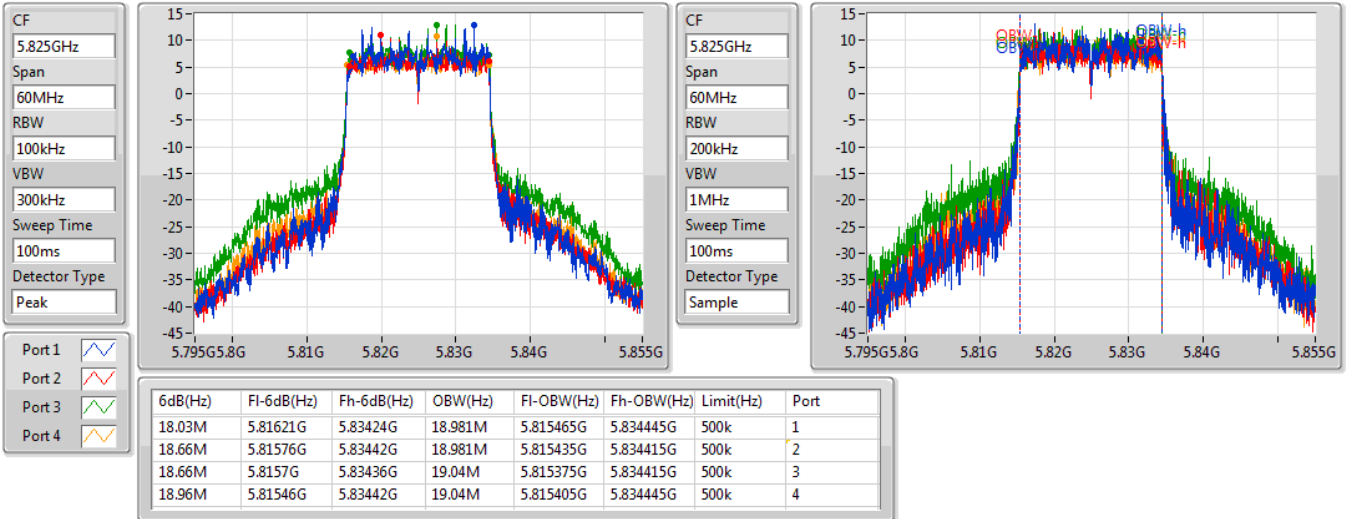

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5785MHz

26/10/2019

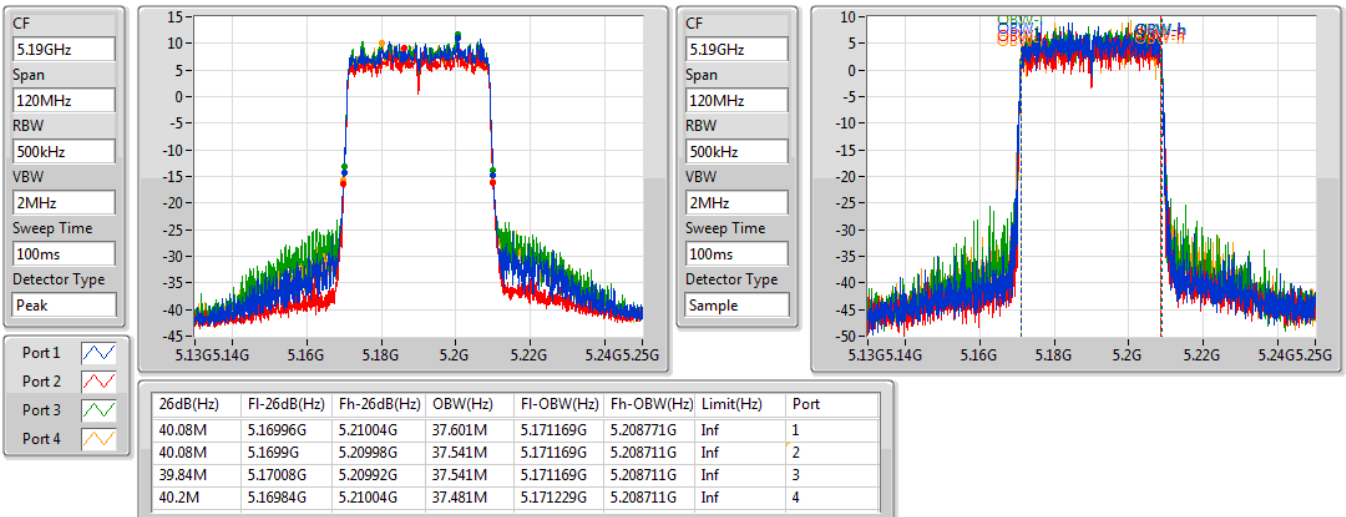


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5825MHz

26/10/2019

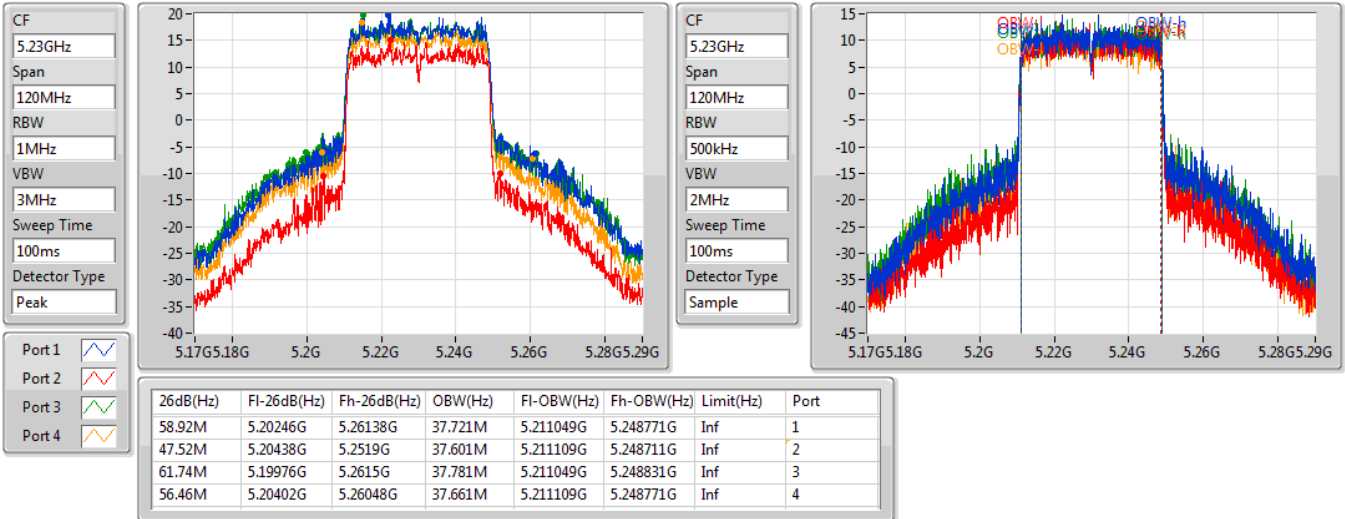

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

26/10/2019

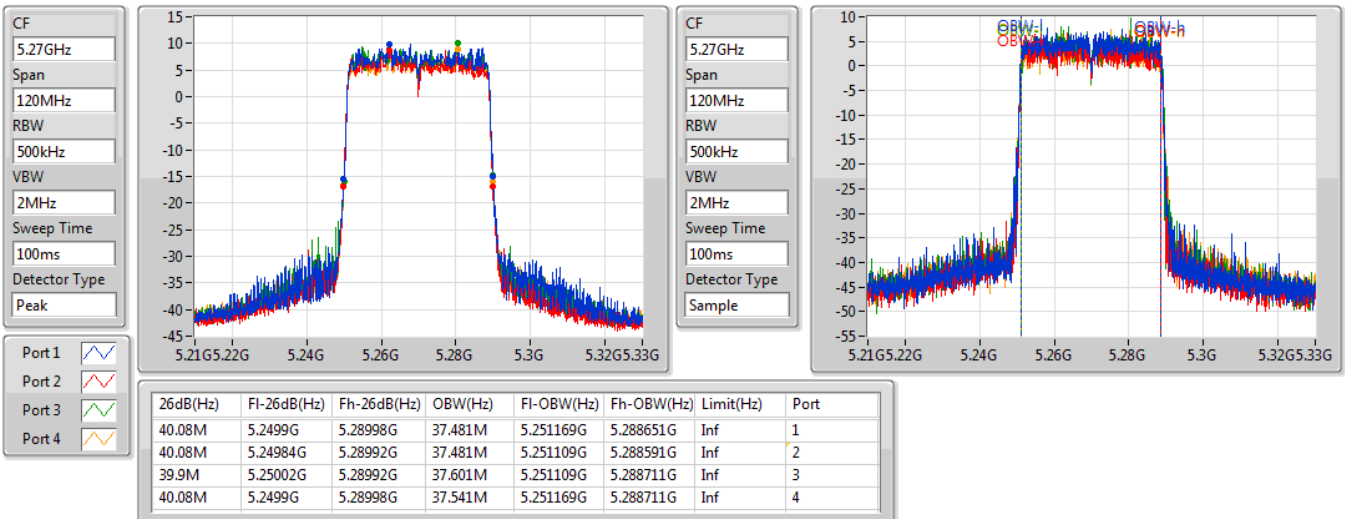


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

26/10/2019

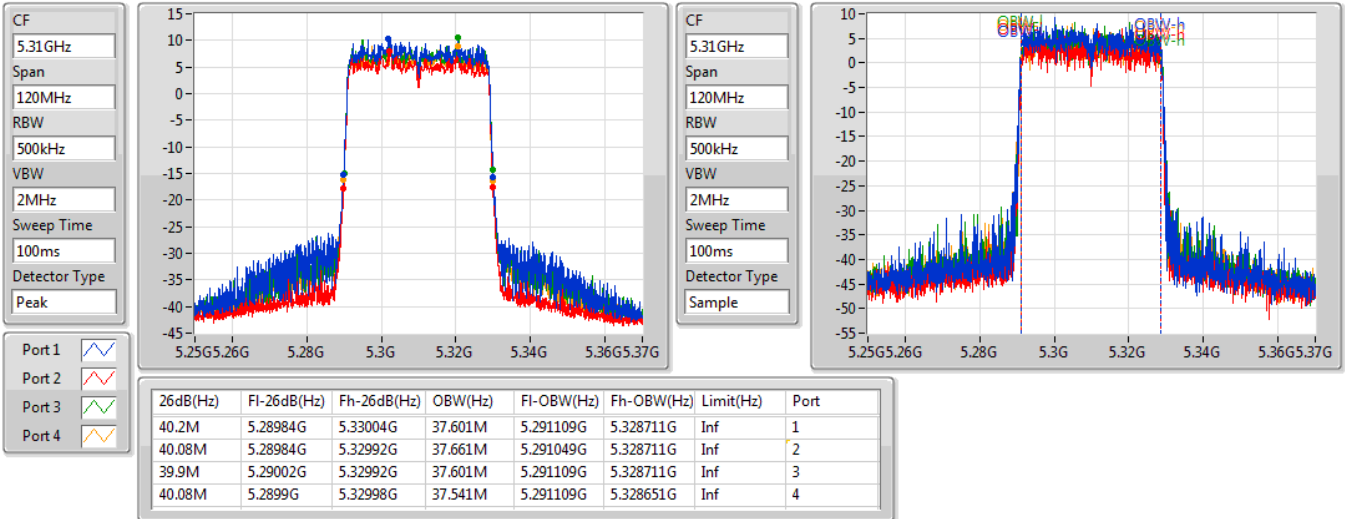

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

26/10/2019

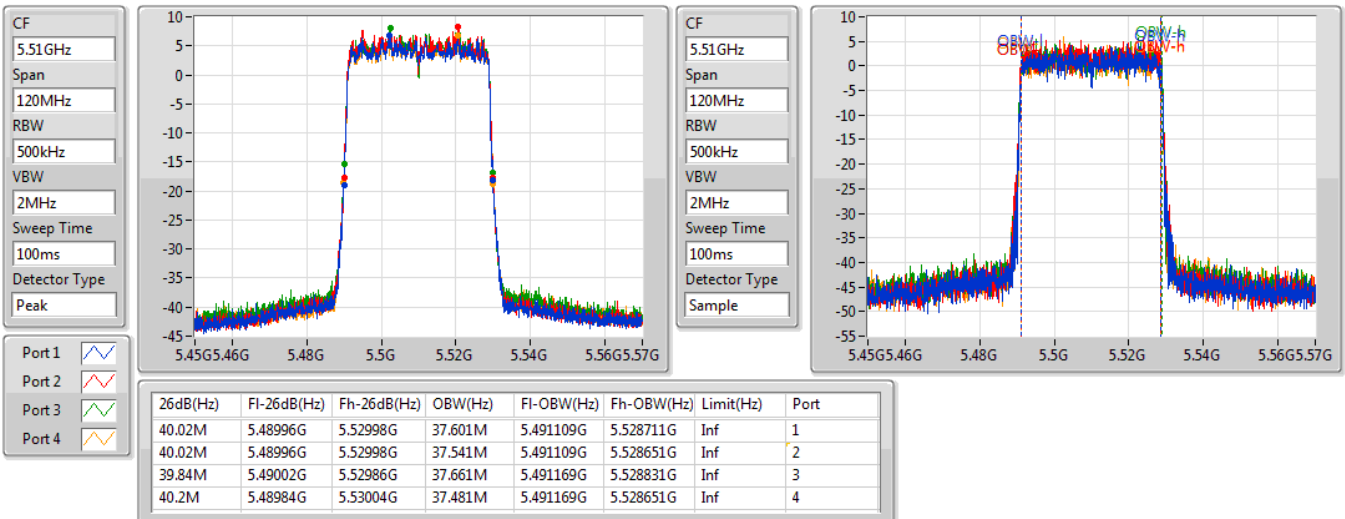


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

26/10/2019

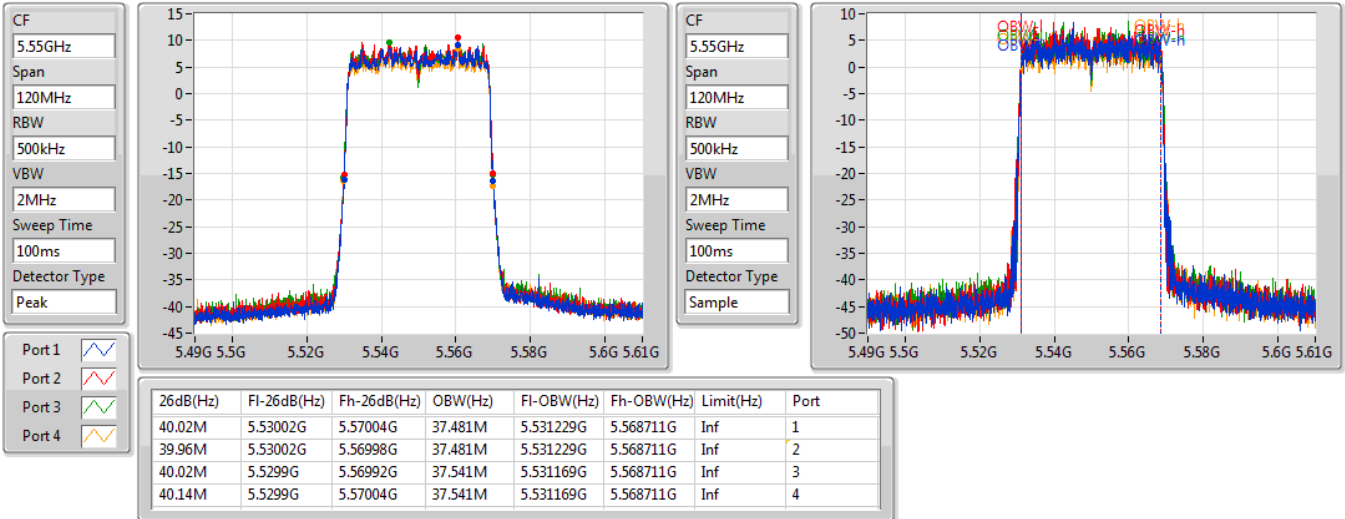

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EBW
5510MHz

26/10/2019

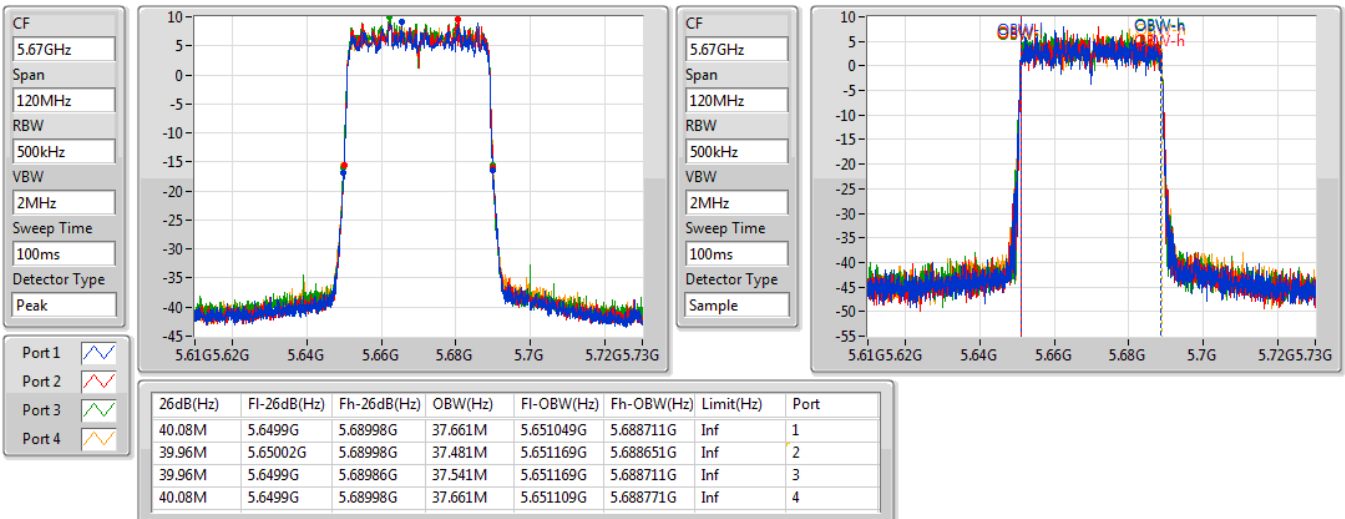


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EBW
5550MHz

26/10/2019

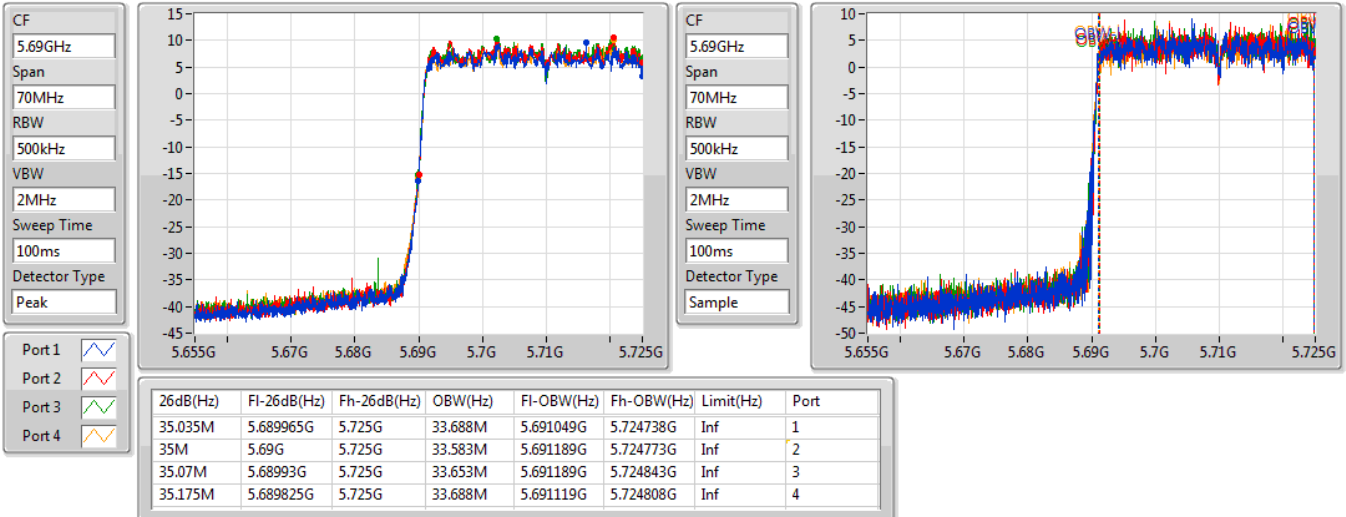

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EBW
5670MHz

26/10/2019

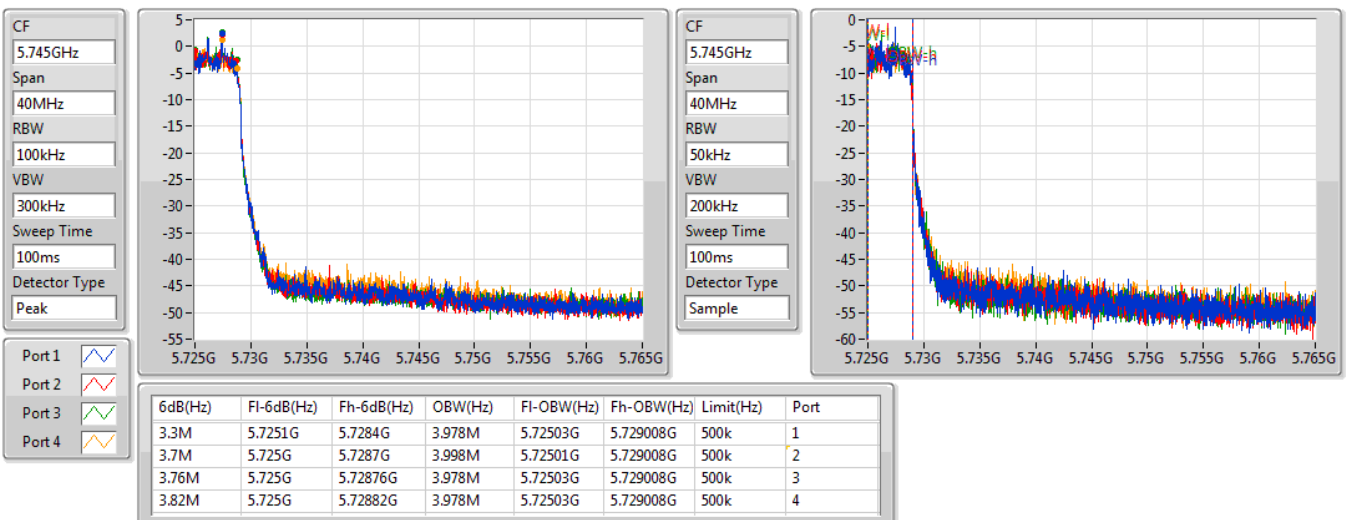


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

26/10/2019

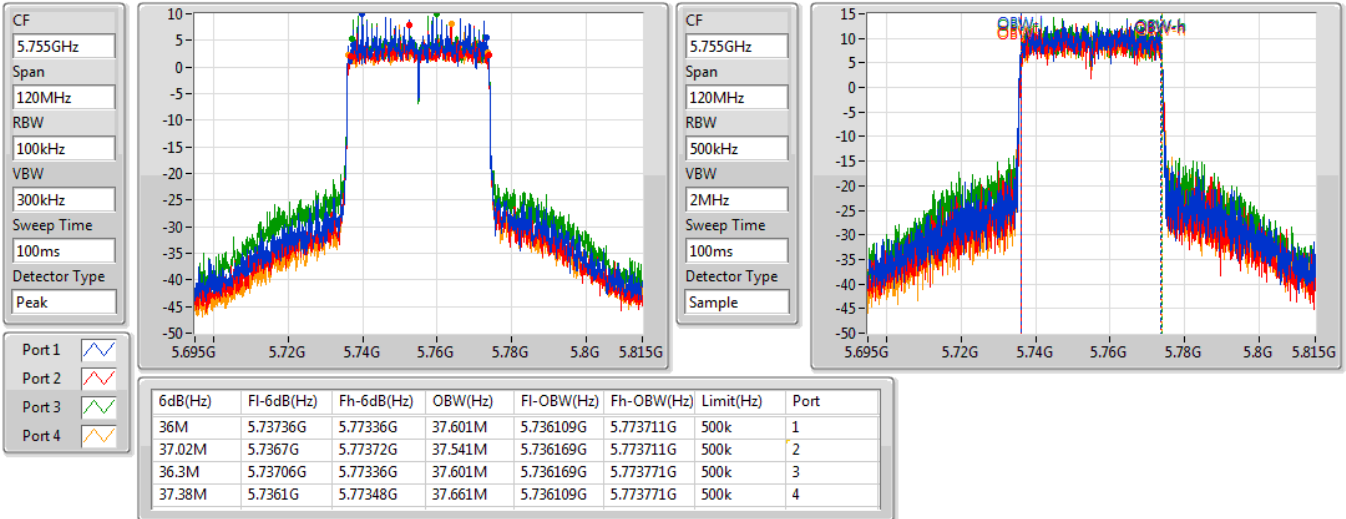

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

26/10/2019

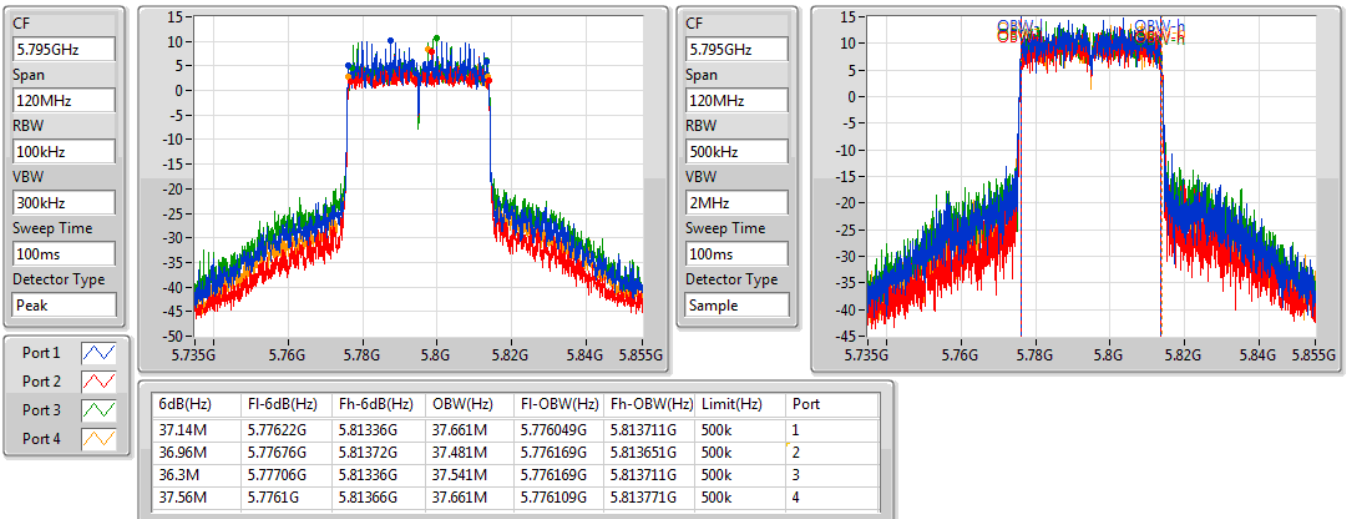


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5755MHz

26/10/2019

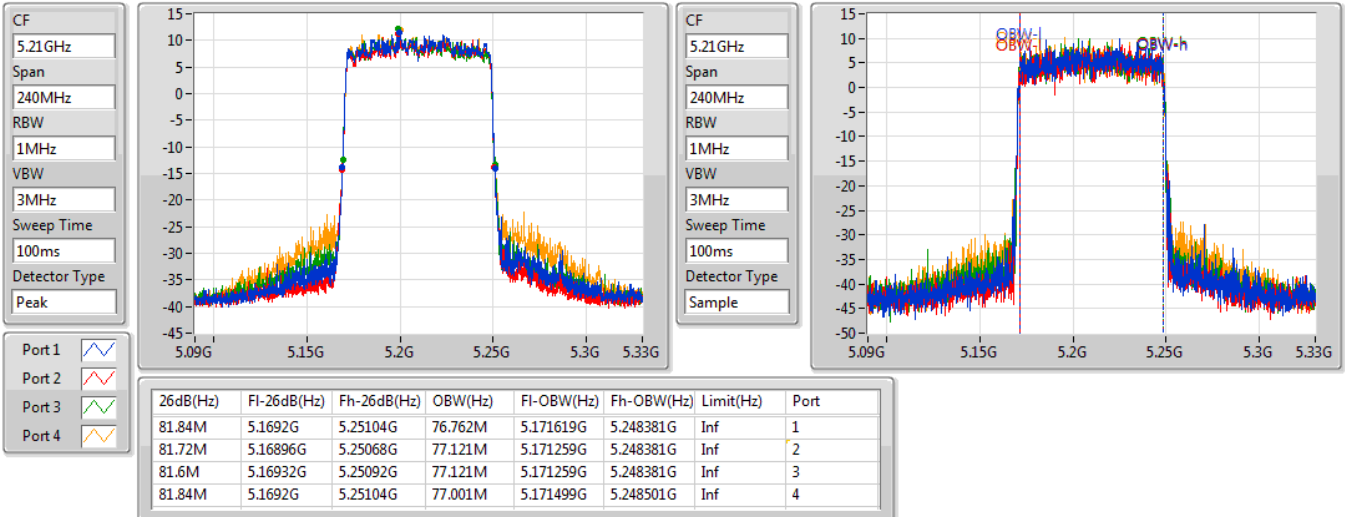

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5795MHz

26/10/2019

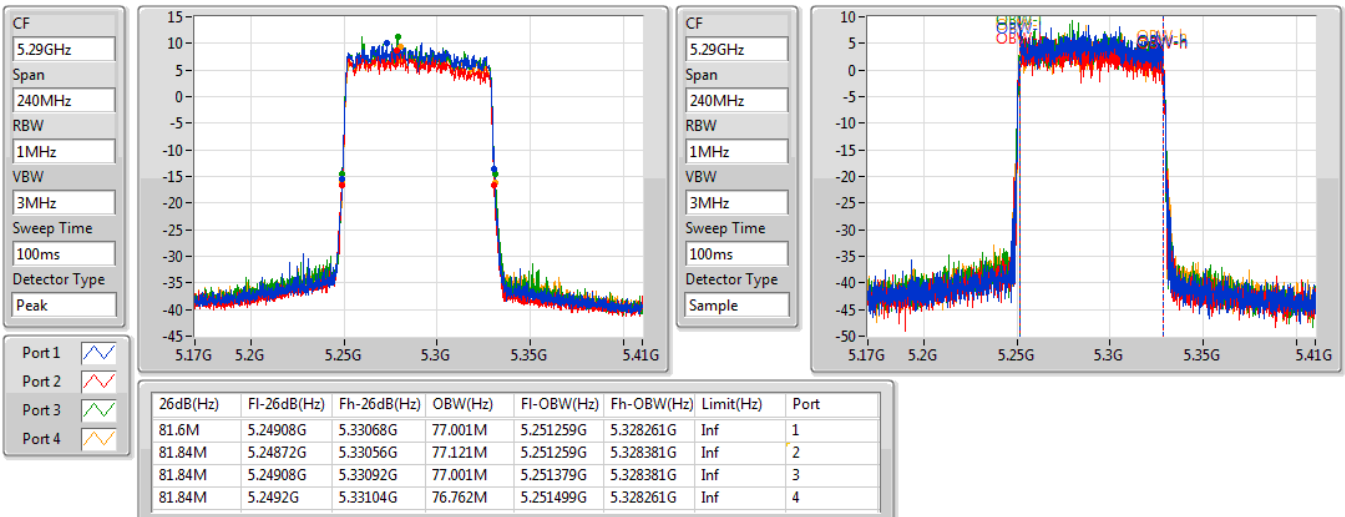


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5210MHz

26/10/2019

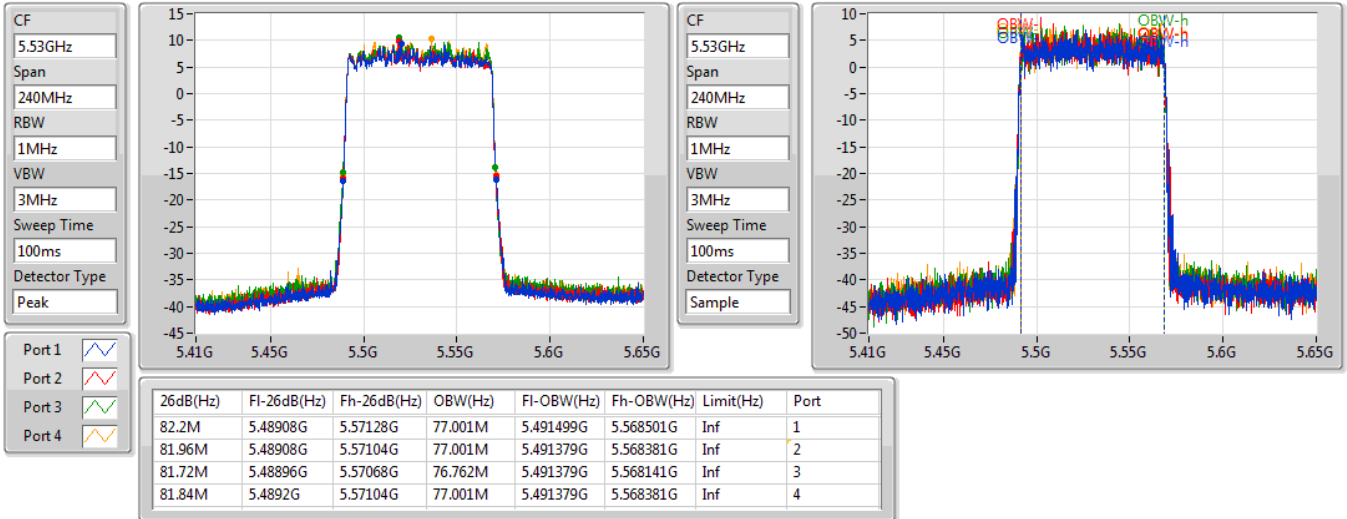

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

26/10/2019

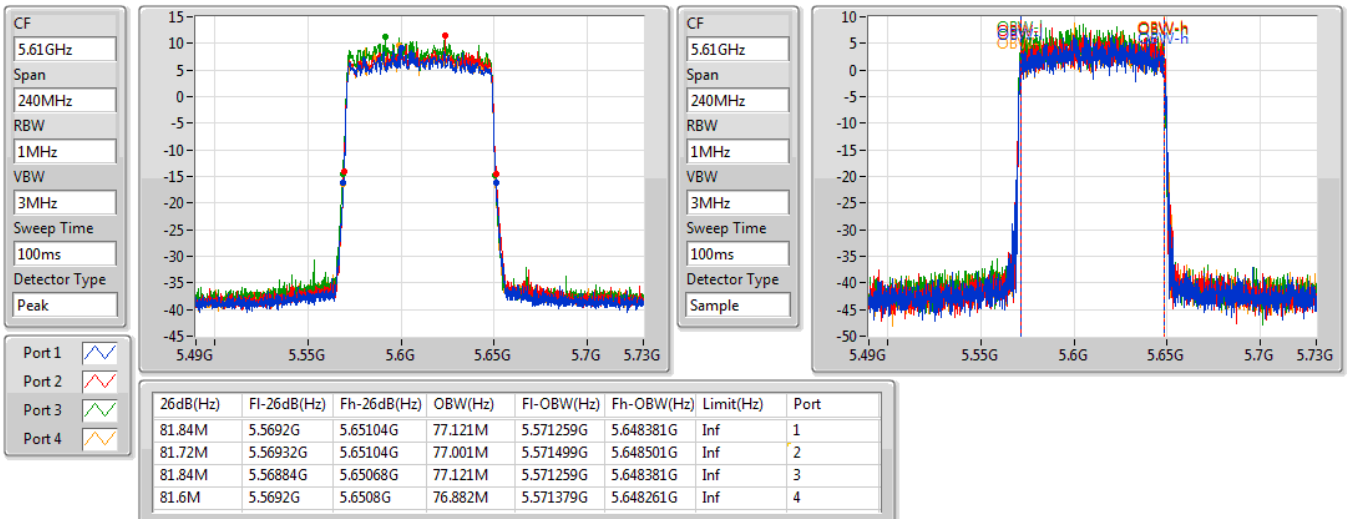


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

26/10/2019

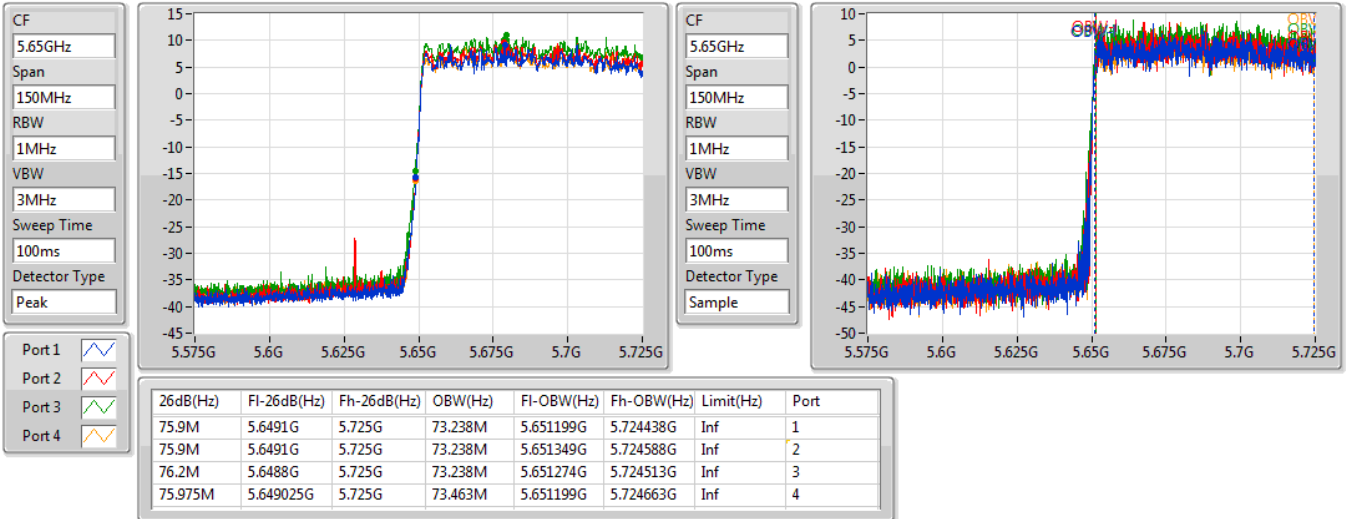

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

26/10/2019

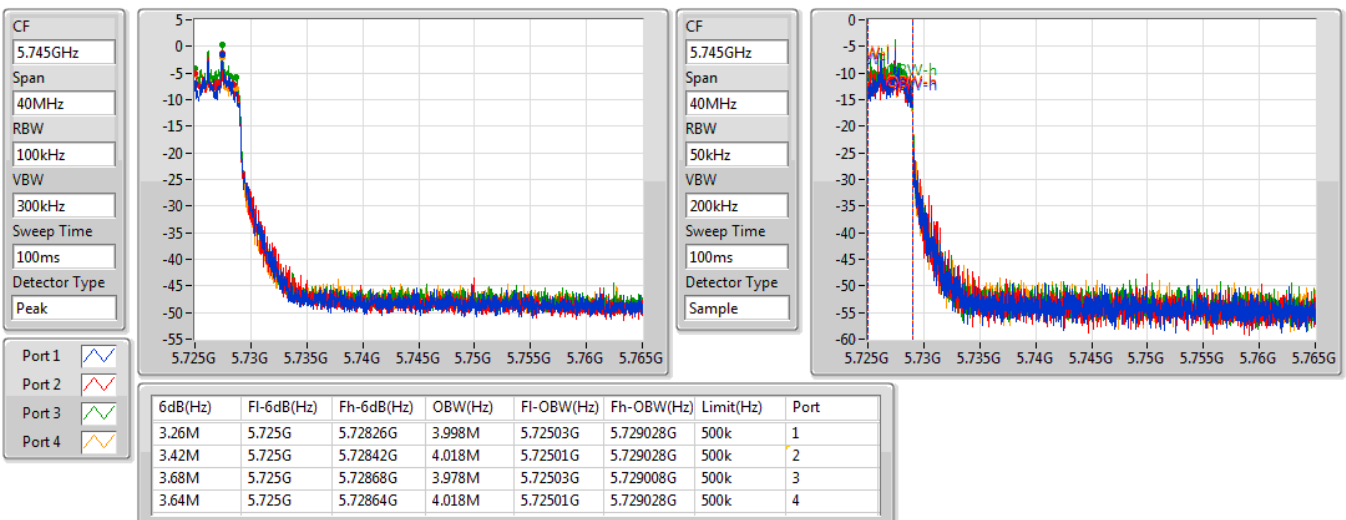


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

26/10/2019

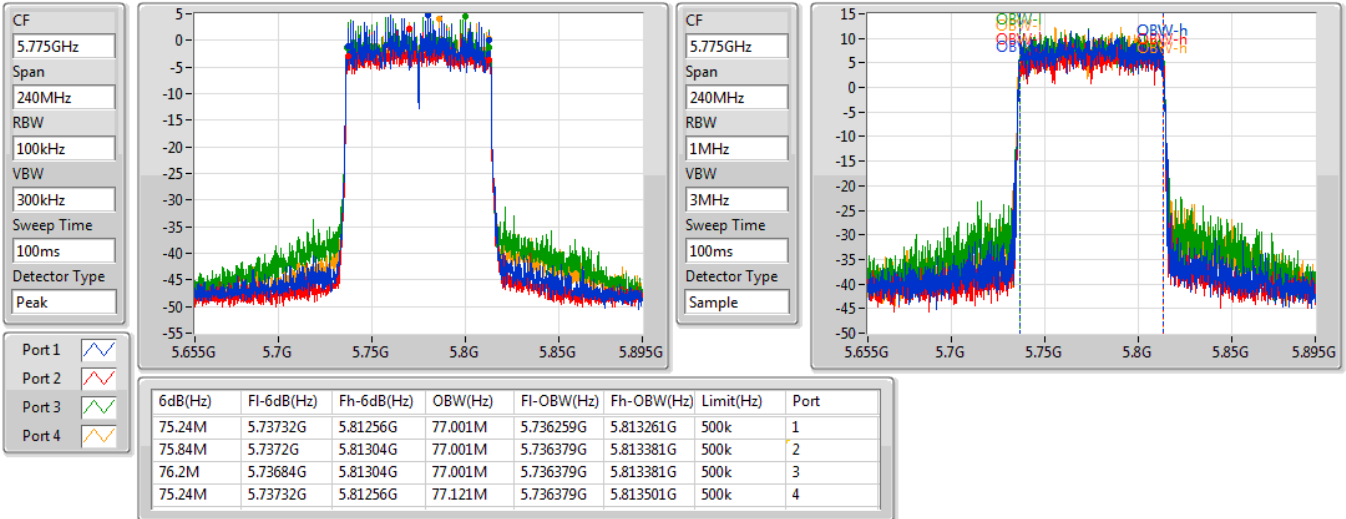

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

26/10/2019

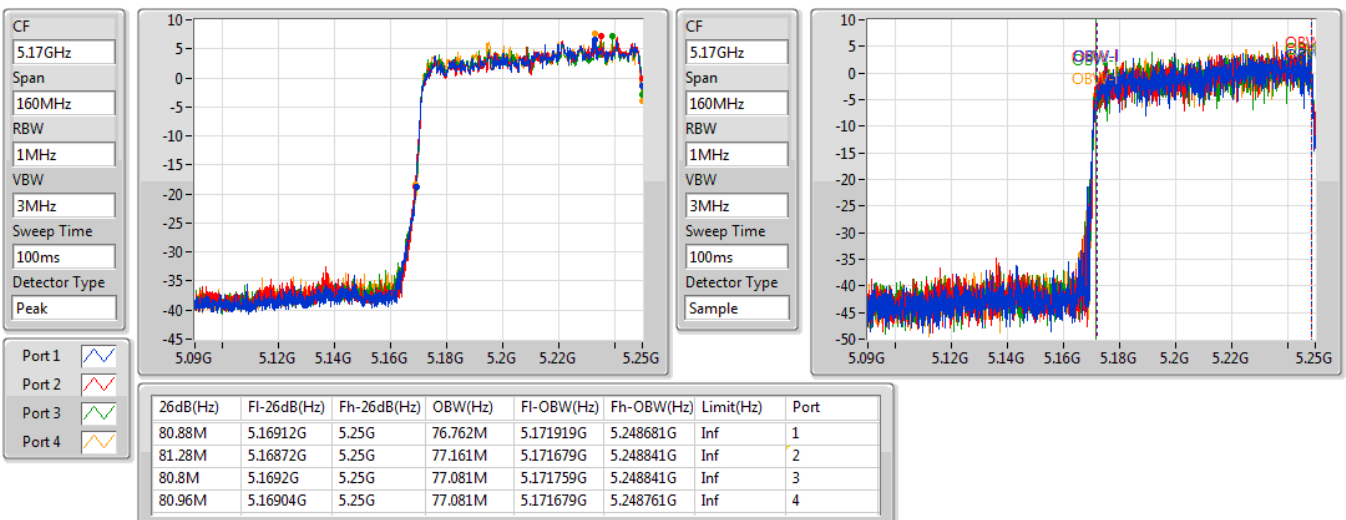


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

26/10/2019

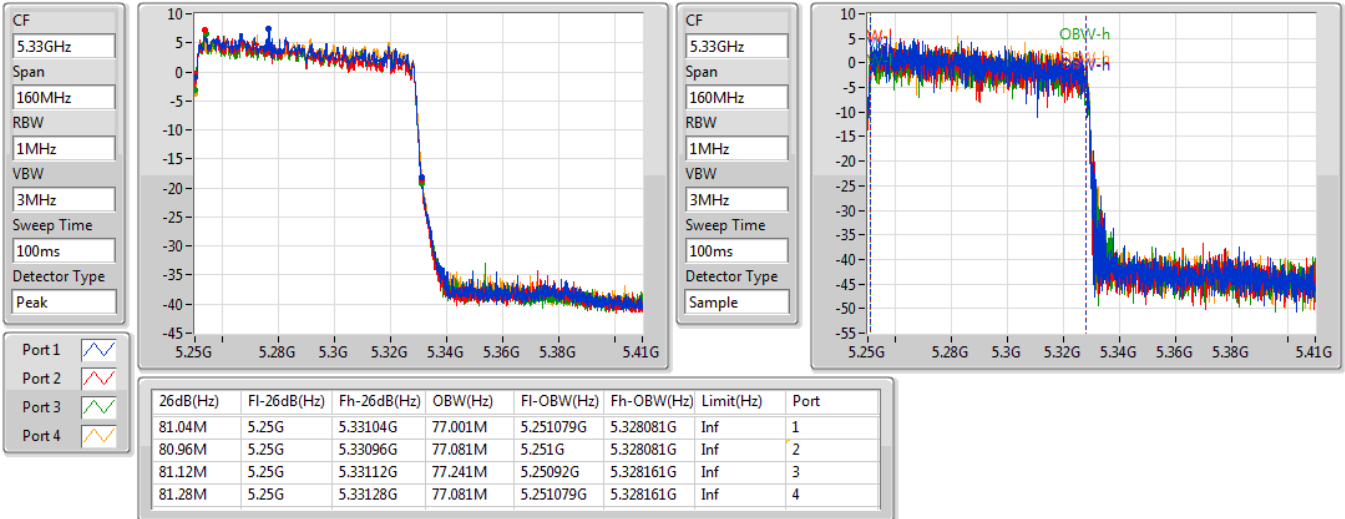

802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

26/10/2019

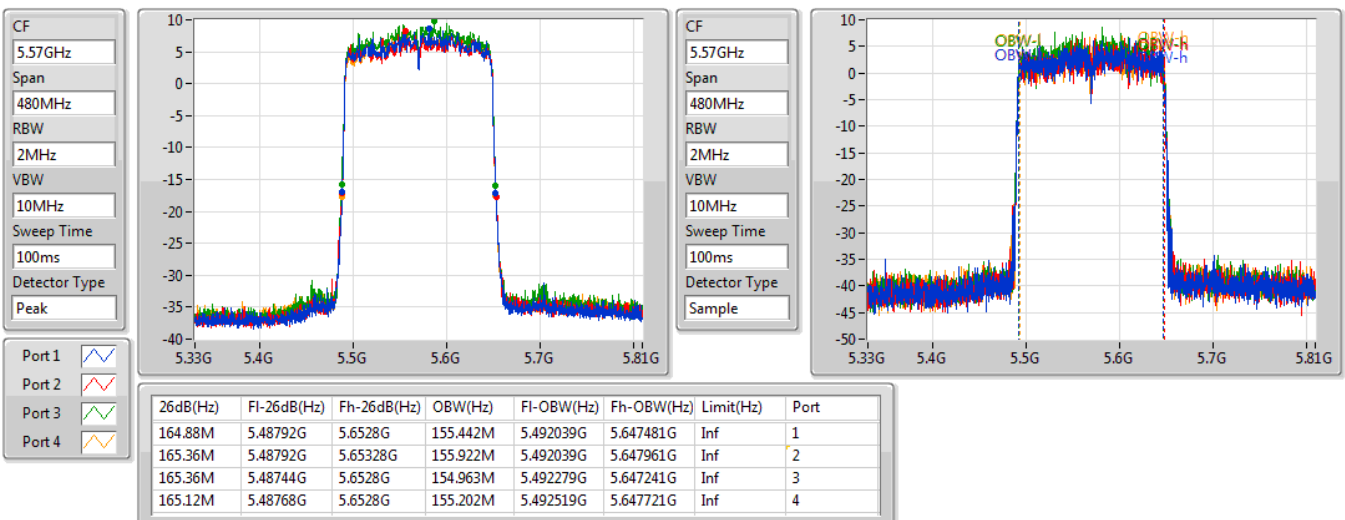


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

26/10/2019


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

26/10/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.67	0.92683	34.02	2.52348
802.11ac VHT20_Nss1,(MCS0)_4TX	29.46	0.88308	33.81	2.40436
802.11ac VHT40_Nss1,(MCS0)_4TX	29.10	0.81283	33.45	2.21309
802.11ac VHT80_Nss1,(MCS0)_4TX	24.95	0.31261	29.30	0.85114
802.11ac VHT160_Nss1,(MCS0)_4TX	19.53	0.08974	23.88	0.24434
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.82	0.24099	28.17	0.65615
802.11ac VHT20_Nss1,(MCS0)_4TX	23.89	0.24491	28.24	0.66681
802.11ac VHT40_Nss1,(MCS0)_4TX	23.76	0.23768	28.11	0.64714
802.11ac VHT80_Nss1,(MCS0)_4TX	23.82	0.24099	28.17	0.65615
802.11ac VHT160_Nss1,(MCS0)_4TX	19.09	0.08110	23.44	0.22080
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.97	0.19815	28.08	0.64269
802.11ac VHT20_Nss1,(MCS0)_4TX	23.16	0.20701	28.27	0.67143
802.11ac VHT40_Nss1,(MCS0)_4TX	23.82	0.24099	28.93	0.78163
802.11ac VHT80_Nss1,(MCS0)_4TX	23.83	0.24155	28.94	0.78343
802.11ac VHT160_Nss1,(MCS0)_4TX	22.51	0.17824	27.62	0.57810
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.82	0.95940	34.93	3.11172
802.11ac VHT20_Nss1,(MCS0)_4TX	29.90	0.97724	35.01	3.16957
802.11ac VHT40_Nss1,(MCS0)_4TX	29.86	0.96828	34.97	3.14051
802.11ac VHT80_Nss1,(MCS0)_4TX	27.63	0.57943	32.74	1.87932



Average Power_Non-Beamforming Mode

Appendix B.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.35	22.33	19.94	22.24	21.51	27.62	30.00	31.97	36.00
5200MHz	Pass	4.35	24.54	22.47	24.46	22.72	29.67	30.00	34.02	36.00
5240MHz	Pass	4.35	24.36	22.25	24.12	22.18	29.37	30.00	33.72	36.00
5260MHz	Pass	4.35	18.69	17.94	17.69	16.63	23.82	23.98	28.17	30.00
5300MHz	Pass	4.35	18.92	17.70	16.09	17.19	23.61	23.98	27.96	30.00
5320MHz	Pass	4.35	18.53	17.76	17.64	16.66	23.72	23.98	28.07	30.00
5500MHz	Pass	5.11	16.91	16.57	16.97	16.98	22.88	23.98	27.99	30.00
5580MHz	Pass	5.11	16.45	17.29	17.16	16.86	22.97	23.98	28.08	30.00
5700MHz	Pass	5.11	16.49	16.96	18.28	15.51	22.95	23.98	28.06	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.11	15.28	15.86	16.69	14.79	21.73	23.98	26.84	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.11	8.90	9.51	10.30	8.52	15.38	30.00	20.49	36.00
5745MHz	Pass	5.11	23.70	22.90	24.76	23.63	29.82	30.00	34.93	36.00
5785MHz	Pass	5.11	23.76	22.44	24.51	23.44	29.62	30.00	34.73	36.00
5825MHz	Pass	5.11	23.95	22.96	24.58	23.39	29.78	30.00	34.89	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.35	21.32	19.24	21.18	20.23	26.59	30.00	30.94	36.00
5200MHz	Pass	4.35	24.36	22.49	23.93	22.70	29.46	30.00	33.81	36.00
5240MHz	Pass	4.35	22.89	23.9	21.96	24.55	29.46	30.00	33.81	36.00
5260MHz	Pass	4.35	18.87	17.86	18.07	16.28	23.89	23.98	28.24	30.00
5300MHz	Pass	4.35	18.55	17.63	17.41	17.03	23.71	23.98	28.06	30.00
5320MHz	Pass	4.35	18.62	17.55	16.42	17.02	23.50	23.98	27.85	30.00
5500MHz	Pass	5.11	16.96	17.56	16.96	16.80	23.10	23.98	28.21	30.00
5580MHz	Pass	5.11	17.20	16.91	17.42	16.78	23.11	23.98	28.22	30.00
5700MHz	Pass	5.11	16.81	17.06	18.18	16.26	23.16	23.98	28.27	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.11	15.48	16.00	16.70	14.87	21.84	23.98	26.95	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.11	9.78	10.43	10.91	9.28	16.16	30.00	21.27	36.00
5745MHz	Pass	5.11	24.40	22.90	24.57	23.42	29.90	30.00	35.01	36.00
5785MHz	Pass	5.11	23.93	22.57	24.38	23.06	29.56	30.00	34.67	36.00
5825MHz	Pass	5.11	23.94	22.45	24.61	23.57	29.73	30.00	34.84	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.35	19.20	17.85	18.83	18.69	24.69	30.00	29.04	36.00
5230MHz	Pass	4.35	23.98	22.49	23.61	21.90	29.10	30.00	33.45	36.00
5270MHz	Pass	4.35	18.69	17.54	17.48	16.96	23.74	23.98	28.09	30.00
5310MHz	Pass	4.35	18.54	17.06	17.84	17.37	23.76	23.98	28.11	30.00
5510MHz	Pass	5.11	17.97	18.33	17.81	16.97	23.82	23.98	28.93	30.00
5550MHz	Pass	5.11	17.93	17.62	18.35	16.87	23.75	23.98	28.86	30.00
5670MHz	Pass	5.11	17.00	18.12	17.99	17.82	23.77	23.98	28.88	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.11	17.37	17.49	17.71	17.40	23.52	23.98	28.63	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.11	6.90	7.11	7.22	7.15	13.12	30.00	18.23	36.00
5755MHz	Pass	5.11	24.23	22.36	24.31	23.65	29.72	30.00	34.83	36.00
5795MHz	Pass	5.11	24.48	23.07	23.99	23.71	29.86	30.00	34.97	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.35	19.36	18.98	17.71	19.47	24.95	30.00	29.30	36.00



Average Power_Non-Beamforming Mode

Appendix B.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5290MHz	Pass	4.35	18.80	17.38	17.76	17.05	23.82	23.98	28.17	30.00
5530MHz	Pass	5.11	17.62	17.35	17.56	17.90	23.63	23.98	28.74	30.00
5610MHz	Pass	5.11	17.52	17.23	18.97	17.28	23.83	23.98	28.94	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.11	16.94	17.72	18.97	16.94	23.75	23.98	28.86	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.11	2.30	3.38	4.19	2.74	9.23	30.00	14.34	36.00
5775MHz	Pass	5.11	21.81	20.87	21.84	21.85	27.63	30.00	32.74	36.00
802.11ac VHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.35	13.81	14.00	12.20	13.79	19.53	30.00	23.88	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.35	13.68	13.66	11.14	13.34	19.09	23.98	23.44	30.00
5570MHz	Pass	5.11	16.74	16.12	17.17	15.78	22.51	23.98	27.62	30.00

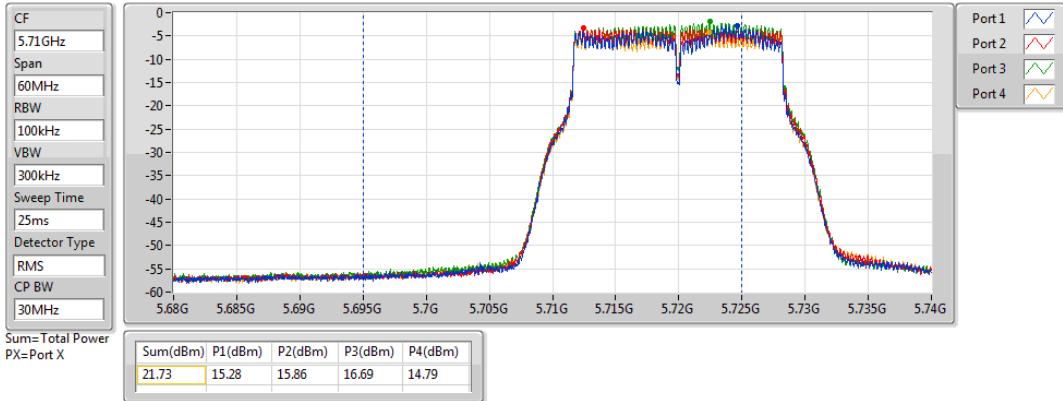
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

23/10/2019

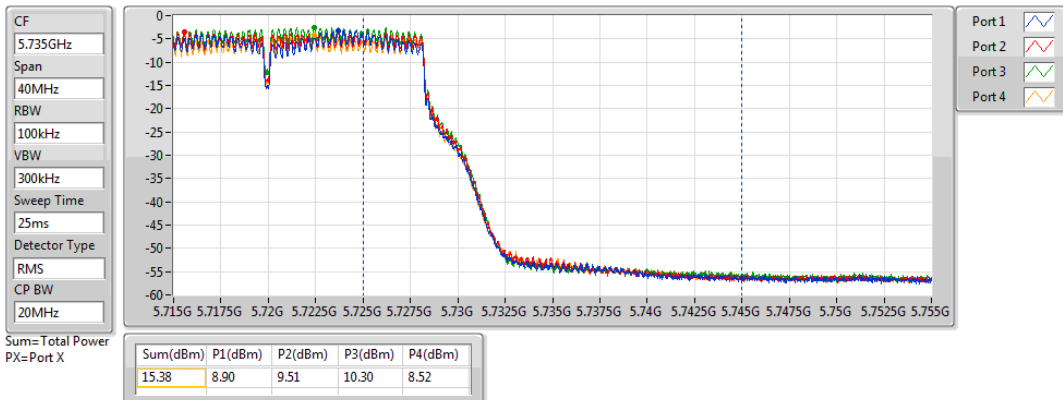


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

23/10/2019

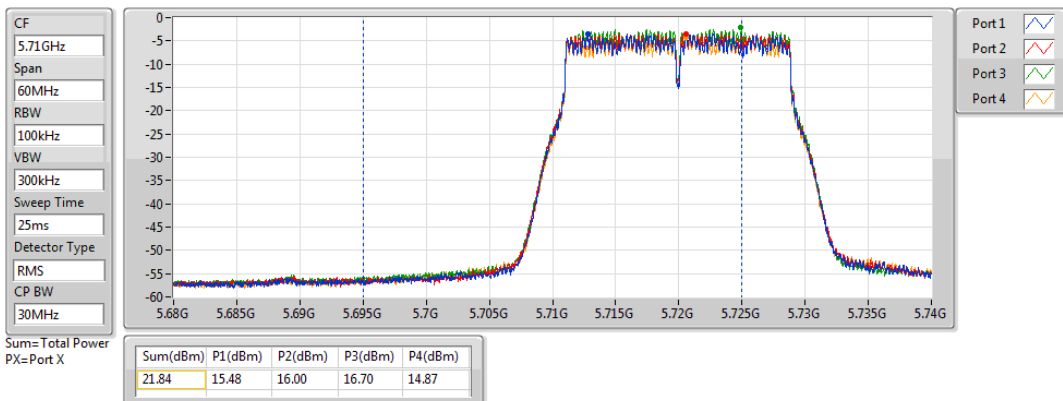


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

23/10/2019

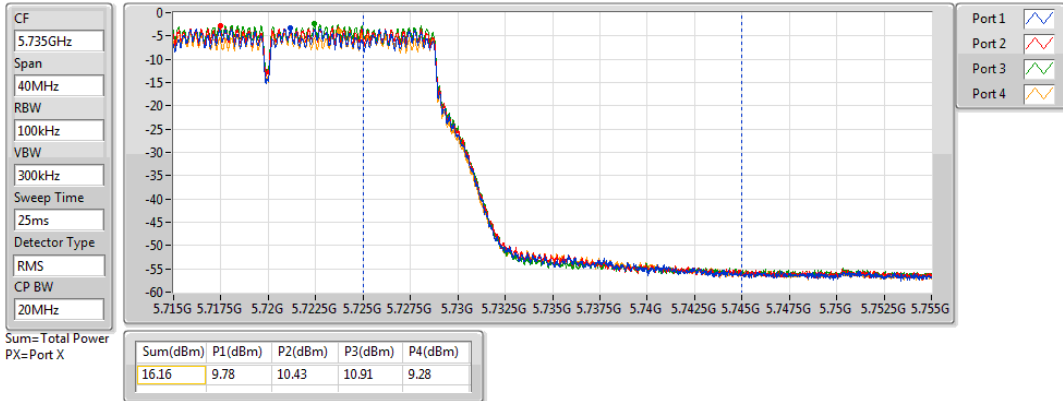


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

23/10/2019

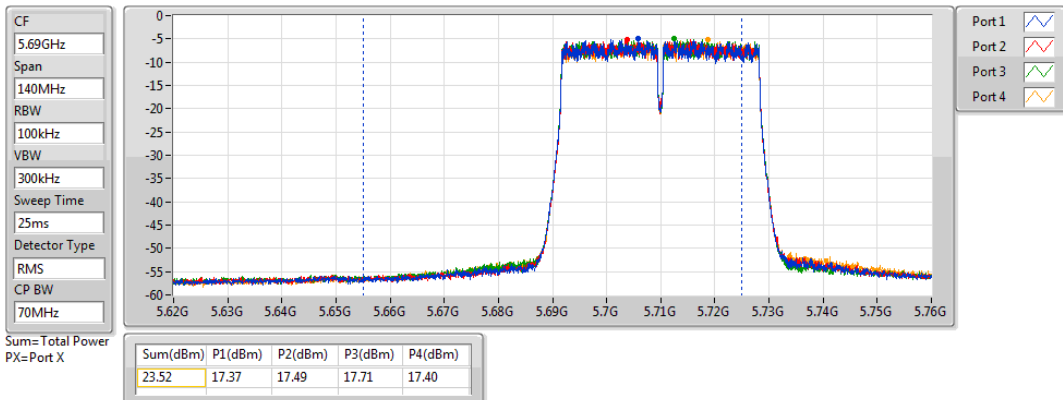


802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

23/10/2019

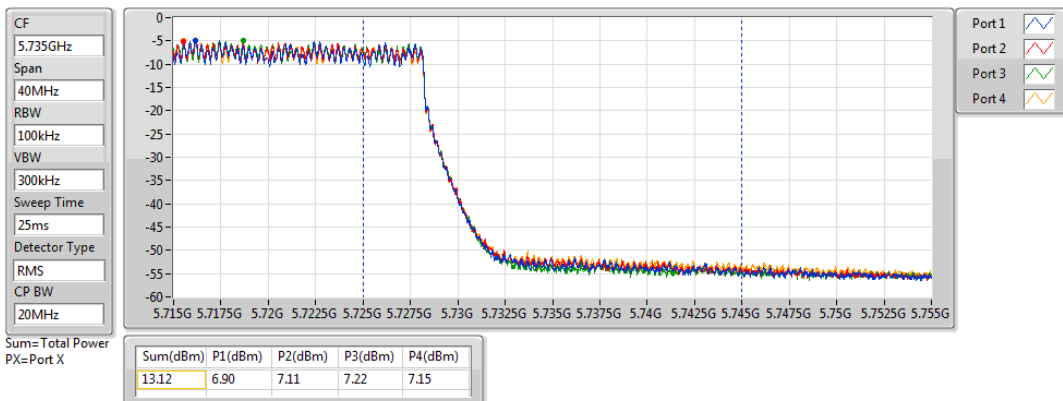


802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

23/10/2019

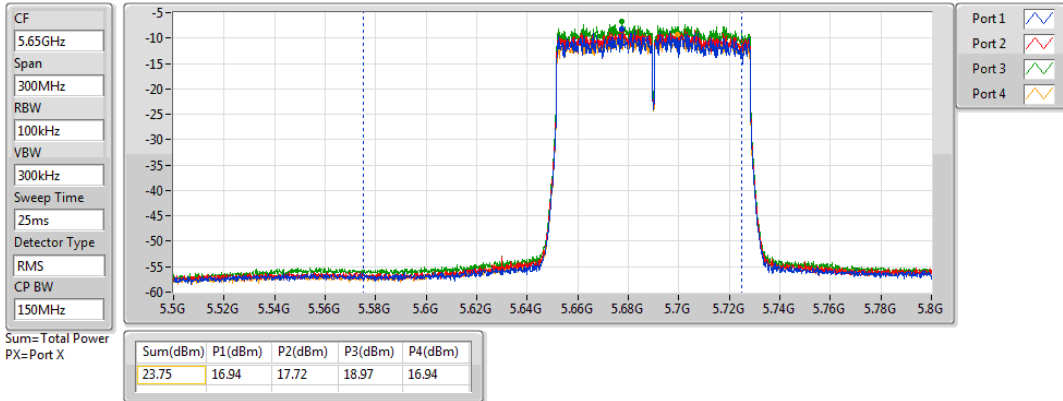


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

23/10/2019

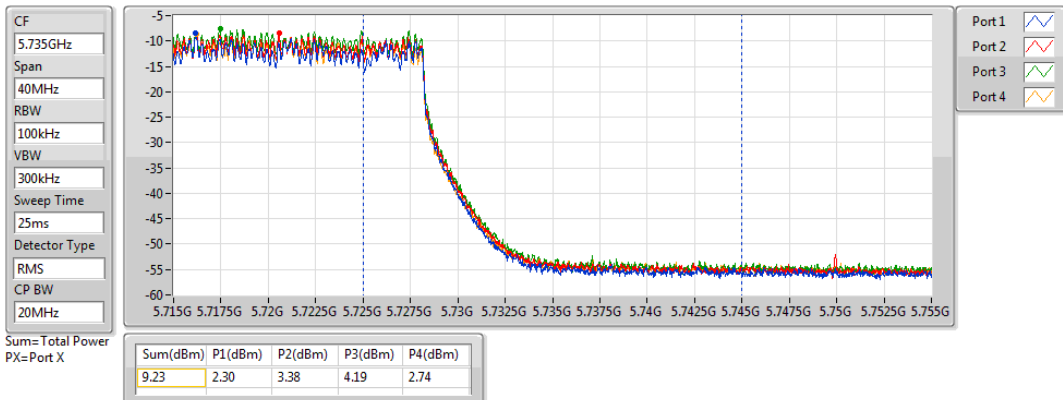


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

23/10/2019

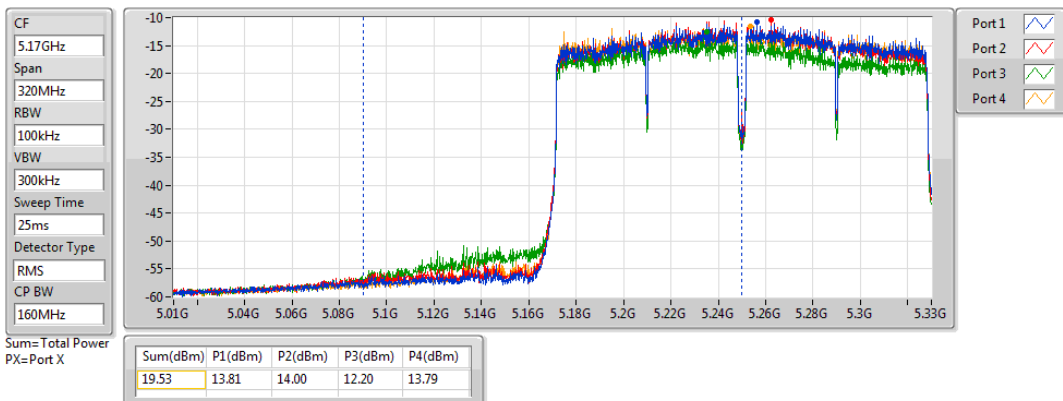


802.11ac VHT160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

22/10/2019

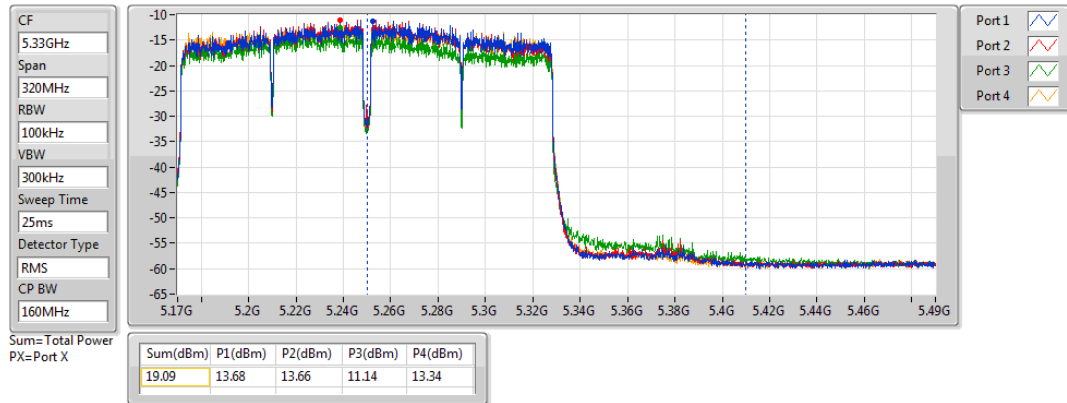


802.11ac VHT160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

22/10/2019



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	29.80	0.95499
802.11ax HEW40_Nss1,(MCS0)_4TX	29.79	0.95280
802.11ax HEW80_Nss1,(MCS0)_4TX	22.93	0.19634
802.11ax HEW160_Nss1,(MCS0)_4TX	20.21	0.10495
5.25-5.35GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	23.91	0.24604
802.11ax HEW40_Nss1,(MCS0)_4TX	23.77	0.23823
802.11ax HEW80_Nss1,(MCS0)_4TX	23.88	0.24434
802.11ax HEW160_Nss1,(MCS0)_4TX	19.85	0.09661
5.47-5.725GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	23.19	0.20845
802.11ax HEW40_Nss1,(MCS0)_4TX	23.93	0.24717
802.11ax HEW80_Nss1,(MCS0)_4TX	23.90	0.24547
802.11ax HEW160_Nss1,(MCS0)_4TX	21.57	0.14355
5.725-5.85GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	29.76	0.94624
802.11ax HEW40_Nss1,(MCS0)_4TX	29.77	0.94842
802.11ax HEW80_Nss1,(MCS0)_4TX	27.03	0.50466

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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.35	20.38	20.59	19.18	21.55	26.53	30.00
5200MHz	Pass	4.35	24.57	22.52	24.23	23.19	29.72	30.00
5240MHz	Pass	4.35	24.77	22.68	24.27	23.08	29.80	30.00
5260MHz	Pass	4.35	16.67	17.98	18.06	18.55	23.89	23.98
5300MHz	Pass	4.35	18.93	17.99	16.42	17.56	23.84	23.98
5320MHz	Pass	4.35	18.88	17.97	17.11	17.39	23.91	23.98
5500MHz	Pass	5.11	16.69	17.24	17.28	17.11	23.11	23.98
5580MHz	Pass	5.11	17.24	16.39	17.43	17.14	23.09	23.98
5700MHz	Pass	5.11	17.28	16.90	18.37	15.71	23.19	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	5.11	15.98	15.72	17.24	14.67	22.02	23.98
5720MHz Straddle 5.725-5.85GHz	Pass	5.11	10.53	9.95	11.23	9.34	16.34	30.00
5745MHz	Pass	5.11	23.85	23.17	24.38	23.45	29.76	30.00
5785MHz	Pass	5.11	24.04	22.94	24.36	23.35	29.73	30.00
5825MHz	Pass	5.11	24.28	22.30	24.42	23.65	29.76	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.35	17.02	18.46	17.41	18.62	23.95	30.00
5230MHz	Pass	4.35	22.92	24.18	23.09	24.63	29.79	30.00
5270MHz	Pass	4.35	19.00	17.70	16.36	17.37	23.73	23.98
5310MHz	Pass	4.35	19.03	17.45	16.49	17.66	23.77	23.98
5510MHz	Pass	5.11	17.95	18.39	18.00	17.22	23.93	23.98
5550MHz	Pass	5.11	18.08	17.07	18.29	17.01	23.67	23.98
5670MHz	Pass	5.11	17.91	17.37	17.96	17.90	23.81	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	5.11	17.79	17.38	18.15	17.76	23.80	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	5.11	7.82	7.31	8.10	8.12	13.87	30.00
5755MHz	Pass	5.11	24.27	22.46	24.38	23.59	29.76	30.00
5795MHz	Pass	5.11	24.28	22.42	24.35	23.69	29.77	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.35	16.97	16.63	16.47	17.48	22.93	30.00
5290MHz	Pass	4.35	19.08	17.83	16.56	17.60	23.88	23.98
5530MHz	Pass	5.11	18.08	17.39	17.53	17.90	23.75	23.98
5610MHz	Pass	5.11	18.07	16.19	19.14	17.60	23.90	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	5.11	17.60	16.48	19.16	17.33	23.77	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	5.11	3.57	2.56	5.43	3.57	9.93	30.00
5775MHz	Pass	5.11	21.05	20.21	21.49	21.20	27.03	30.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.35	14.49	14.71	13.14	14.24	20.21	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.35	14.51	14.45	11.93	13.95	19.85	23.98
5570MHz	Pass	5.11	15.88	14.74	16.27	15.14	21.57	23.98

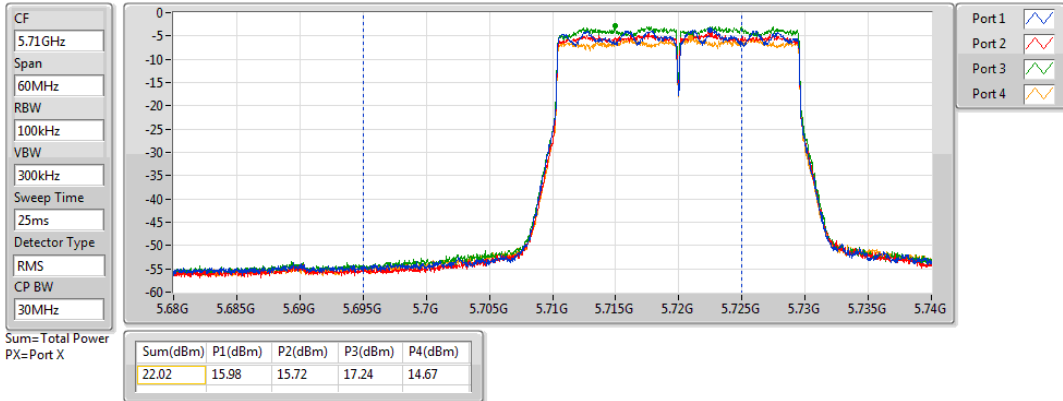
DG = Directional Gain; Port X = Port X output power

802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

23/10/2019

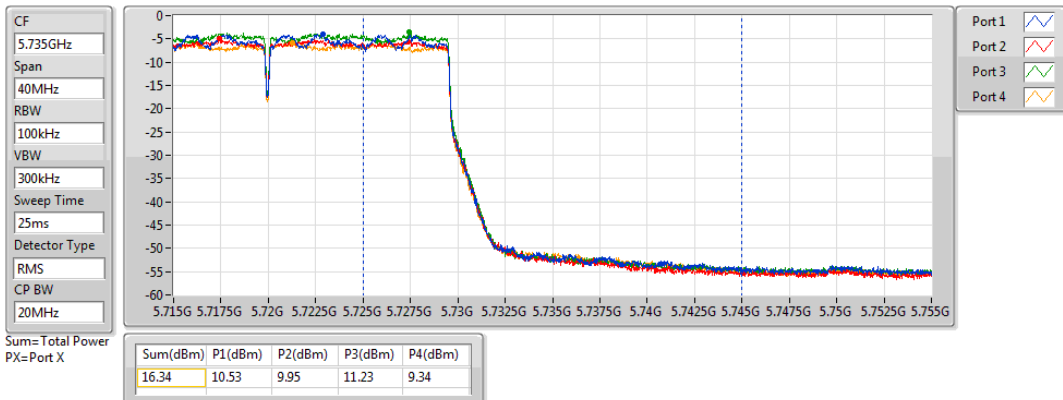


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

23/10/2019

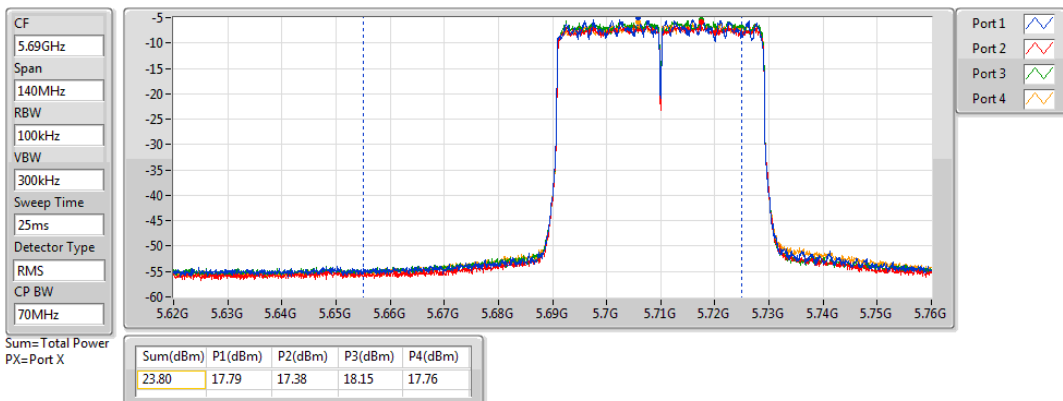


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

23/10/2019

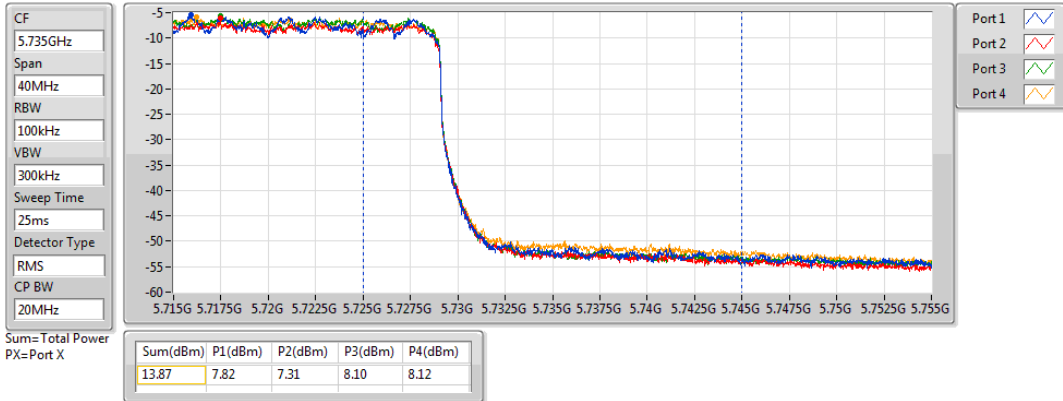


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

23/10/2019

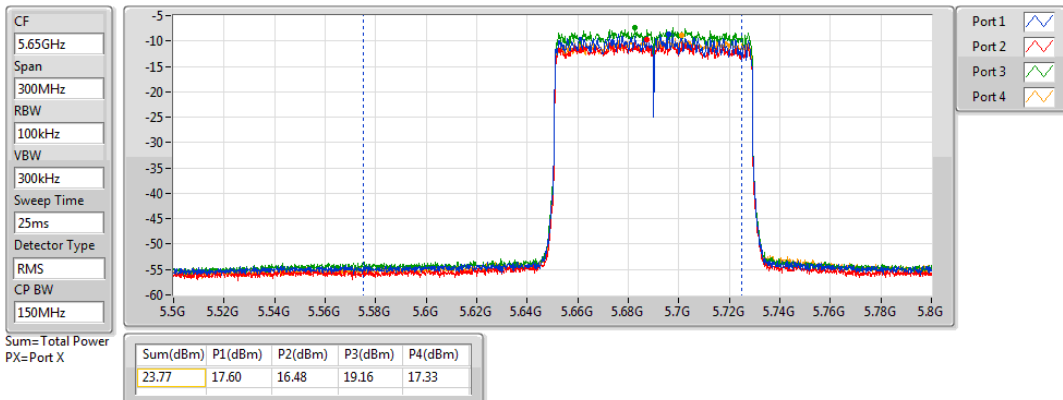


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

23/10/2019



802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

23/10/2019

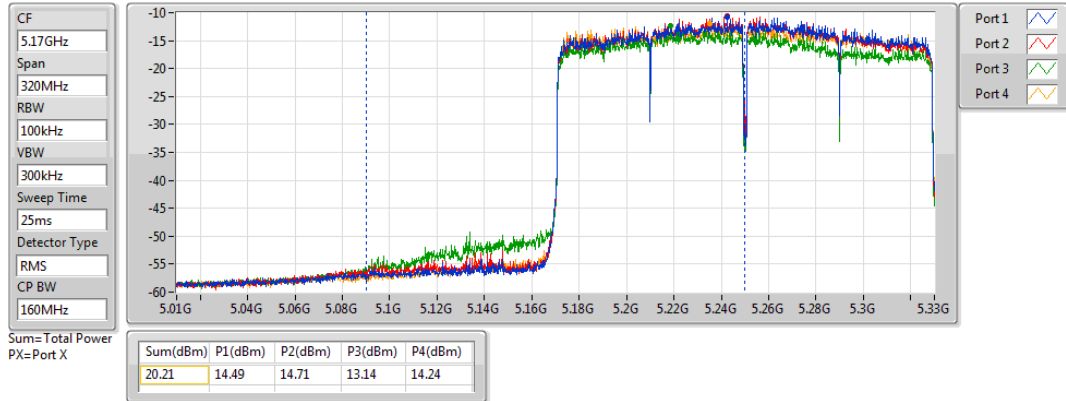


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

22/10/2019

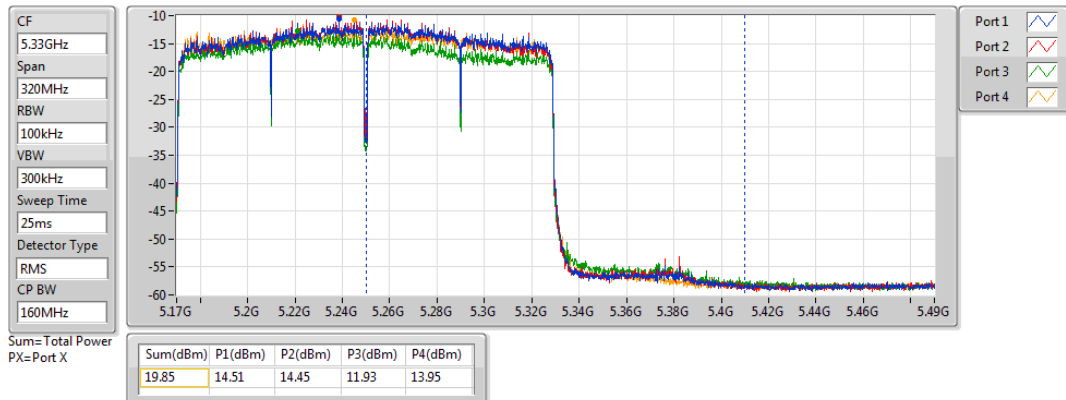


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

22/10/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	28.85	0.76736
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	29.10	0.81283
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	23.48	0.22284
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	19.83	0.09616
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.02	0.79799
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.06	0.80538
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.54	0.28445
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	19.70	0.09333
5.25-5.35GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.83	0.19187
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.59	0.18155
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.88	0.19409
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	19.64	0.09204
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.01	0.19999
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.13	0.20559
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.00	0.19953
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	20.31	0.10740
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.82	0.19143
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.67	0.18493
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.63	0.18323
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	21.94	0.15631
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.81	0.19099
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.82	0.19143
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.82	0.19143
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	21.80	0.15136
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	28.74	0.74817
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	28.80	0.75858
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	26.00	0.39811
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.80	0.75858
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.80	0.75858
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	26.48	0.44463

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.83	20.78	19.08	21.25	20.03	26.38	29.17
5200MHz	Pass	6.83	23.20	21.71	23.79	22.33	28.85	29.17
5240MHz	Pass	6.83	23.27	21.23	23.84	22.12	28.75	29.17
5260MHz	Pass	6.83	17.39	15.63	16.64	15.71	22.42	23.15
5300MHz	Pass	6.83	17.58	15.46	17.28	16.01	22.69	23.15
5320MHz	Pass	6.83	17.76	15.97	17.03	16.23	22.83	23.15
5500MHz	Pass	7.15	16.03	17.40	16.94	16.64	22.80	22.83
5580MHz	Pass	7.15	16.12	16.57	17.40	16.73	22.75	22.83
5700MHz	Pass	7.15	16.30	16.77	18.23	15.38	22.82	22.83
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	15.19	15.39	16.76	14.27	21.52	21.79
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	9.02	8.97	10.45	7.75	15.17	28.85
5745MHz	Pass	7.15	22.12	21.63	22.54	22.07	28.12	28.85
5785MHz	Pass	7.15	22.51	21.93	22.31	22.01	28.22	28.85
5825MHz	Pass	7.15	22.99	22.33	23.25	22.20	28.74	28.85
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.83	17.67	16.32	18.17	17.28	23.43	29.17
5230MHz	Pass	6.83	23.98	22.49	23.61	21.90	29.10	29.17
5270MHz	Pass	6.83	17.42	15.78	16.84	16.06	22.59	23.15
5310MHz	Pass	6.83	17.30	15.57	16.75	16.36	22.56	23.15
5510MHz	Pass	7.15	14.39	14.65	15.04	13.87	20.53	22.83
5550MHz	Pass	7.15	16.56	16.64	17.14	15.83	22.59	22.83
5670MHz	Pass	7.15	16.02	16.75	16.87	16.56	22.58	22.83
5710MHz Straddle 5.47-5.725GHz	Pass	7.15	16.22	16.74	17.12	16.45	22.67	22.83
5710MHz Straddle 5.725-5.85GHz	Pass	7.15	6.02	6.25	6.24	6.01	12.15	28.85
5755MHz	Pass	7.15	23.01	21.91	23.07	22.46	28.66	28.85
5795MHz	Pass	7.15	22.89	22.12	23.60	22.35	28.80	28.85
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.83	17.52	17.33	17.65	17.34	23.48	29.17
5290MHz	Pass	6.83	17.83	16.06	17.08	16.22	22.88	23.15
5530MHz	Pass	7.15	16.00	16.08	16.55	16.52	22.32	22.83
5610MHz	Pass	7.15	15.88	15.99	16.50	16.46	22.24	22.83
5690MHz Straddle 5.47-5.725GHz	Pass	7.15	16.00	15.95	18.21	15.77	22.63	22.83
5690MHz Straddle 5.725-5.85GHz	Pass	7.15	1.41	0.88	2.71	1.40	7.68	28.85
5775MHz	Pass	7.15	19.65	19.37	20.64	20.13	26.00	28.85
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.83	13.95	13.63	13.71	13.95	19.83	29.17
5250MHz Straddle 5.25-5.35GHz	Pass	6.83	14.04	13.23	13.06	14.06	19.64	23.15
5570MHz	Pass	7.15	15.30	15.88	16.99	15.27	21.94	22.83
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.83	21.70	19.31	22.03	20.47	27.03	29.17
5200MHz	Pass	6.83	23.58	21.73	23.96	22.35	29.02	29.17
5240MHz	Pass	6.83	23.23	22.05	24.14	22.22	29.01	29.17
5260MHz	Pass	6.83	17.63	16.25	17.54	16.08	22.95	23.15



Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5300MHz	Pass	6.83	17.85	16.59	16.92	16.45	23.01	23.15
5320MHz	Pass	6.83	18.05	16.50	16.97	16.19	23.01	23.15
5500MHz	Pass	7.15	16.36	16.79	17.14	16.80	22.80	22.83
5580MHz	Pass	7.15	16.17	16.92	17.20	16.73	22.79	22.83
5700MHz	Pass	7.15	16.04	17.05	17.94	15.78	22.81	22.83
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	15.45	15.64	17.10	14.43	21.78	21.81
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	10.34	10.37	10.93	9.19	16.27	28.85
5745MHz	Pass	7.15	22.87	22.03	23.41	22.61	28.78	28.85
5785MHz	Pass	7.15	23.12	22.37	22.91	22.44	28.74	28.85
5825MHz	Pass	7.15	22.91	22.25	23.13	22.77	28.80	28.85
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.83	18.01	16.85	18.34	17.74	23.79	29.17
5230MHz	Pass	6.83	23.65	22.41	23.66	22.23	29.06	29.17
5270MHz	Pass	6.83	17.75	16.38	17.28	16.50	23.04	23.15
5310MHz	Pass	6.83	17.86	15.82	17.55	16.95	23.13	23.15
5510MHz	Pass	7.15	14.26	15.12	15.20	14.19	20.74	22.83
5550MHz	Pass	7.15	16.63	17.06	17.18	15.87	22.74	22.83
5670MHz	Pass	7.15	16.31	16.74	17.21	16.80	22.80	22.83
5710MHz Straddle 5.47-5.725GHz	Pass	7.15	16.32	16.97	17.20	16.67	22.82	22.83
5710MHz Straddle 5.725-5.85GHz	Pass	7.15	6.83	7.12	7.32	7.11	13.12	28.85
5755MHz	Pass	7.15	22.97	22.15	23.26	22.59	28.78	28.85
5795MHz	Pass	7.15	23.30	21.83	23.27	22.55	28.80	28.85
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.83	18.64	18.30	18.49	18.64	24.54	29.17
5290MHz	Pass	6.83	17.51	16.22	17.42	16.63	23.00	23.15
5530MHz	Pass	7.15	16.15	16.76	17.05	17.17	22.82	22.83
5610MHz	Pass	7.15	15.95	16.60	17.86	16.46	22.80	22.83
5690MHz Straddle 5.47-5.725GHz	Pass	7.15	15.88	16.54	18.12	15.99	22.75	22.83
5690MHz Straddle 5.725-5.85GHz	Pass	7.15	2.32	2.27	3.80	2.58	8.81	28.85
5775MHz	Pass	7.15	20.41	19.38	21.06	20.79	26.48	28.85
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.83	13.64	13.78	13.59	13.69	19.70	29.17
5250MHz Straddle 5.25-5.35GHz	Pass	6.83	14.57	14.12	14.08	14.38	20.31	23.15
5570MHz	Pass	7.15	15.62	15.20	16.70	15.46	21.80	22.83

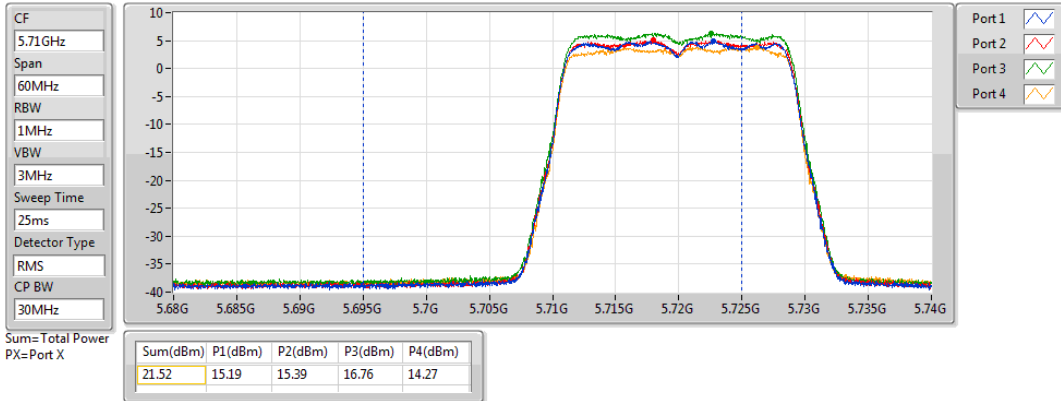
DG = Directional Gain; **Port X** = Port X output power

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

26/10/2019

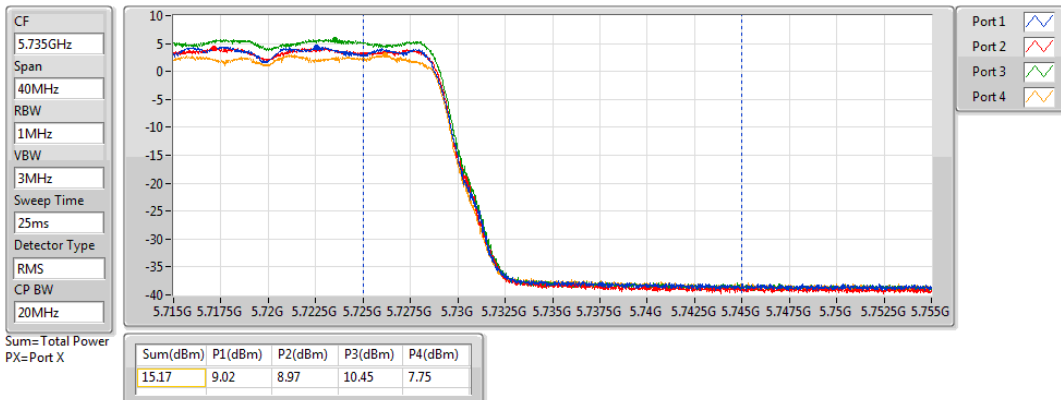


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

26/10/2019

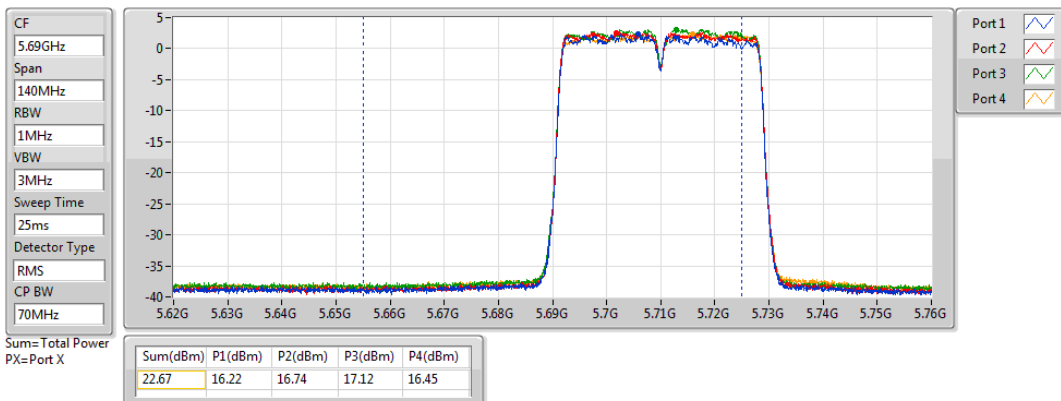


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

26/10/2019

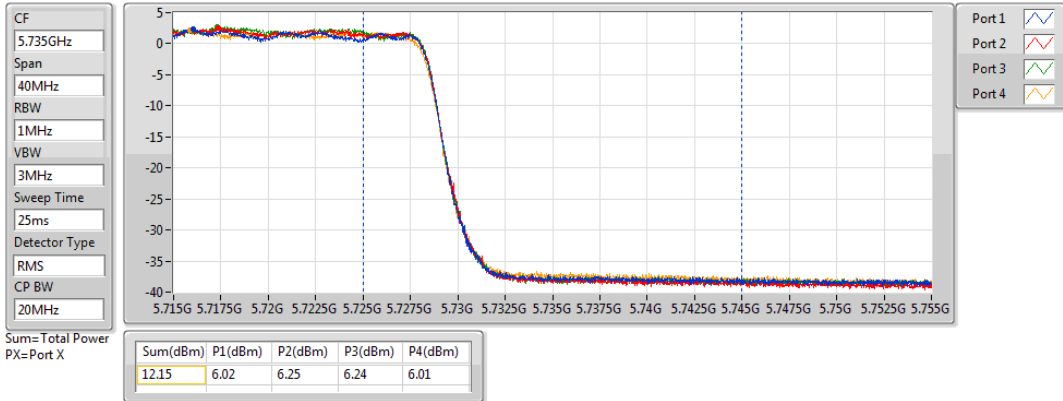


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

26/10/2019

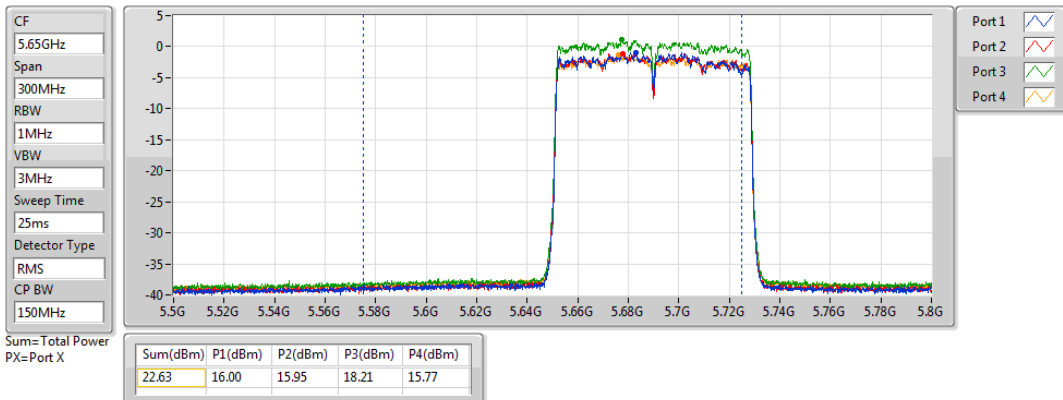


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

26/10/2019

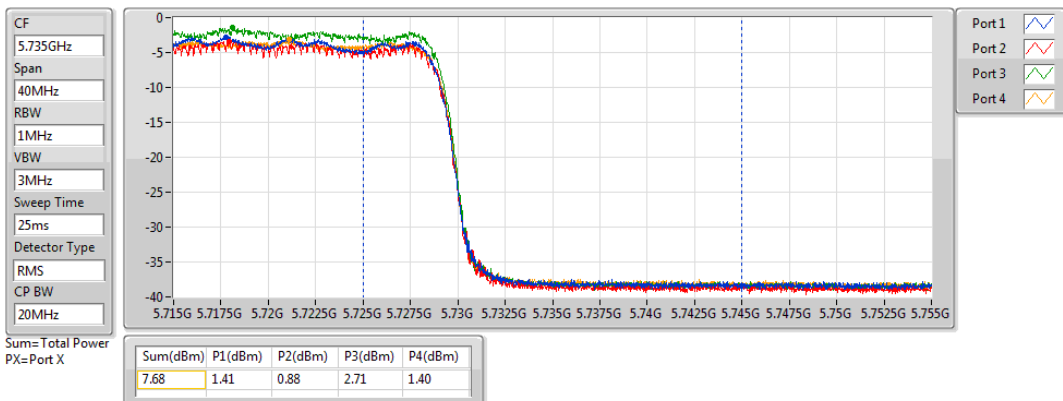


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

26/10/2019

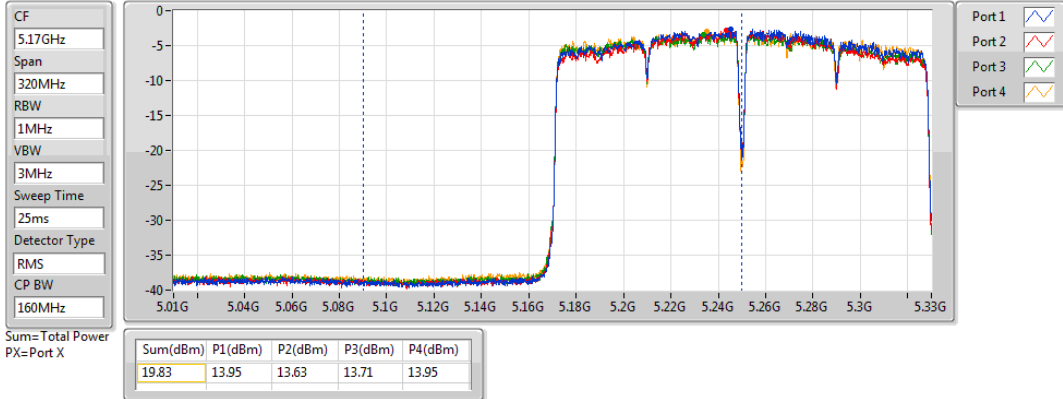


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

26/10/2019

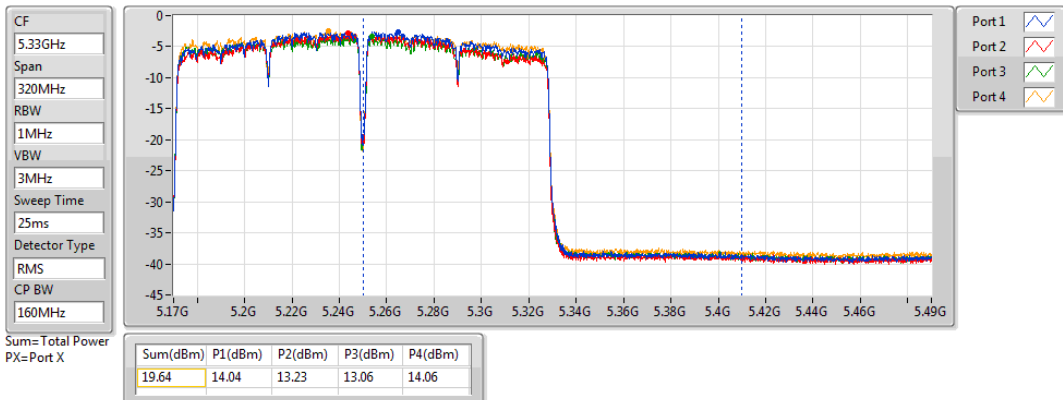


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

26/10/2019

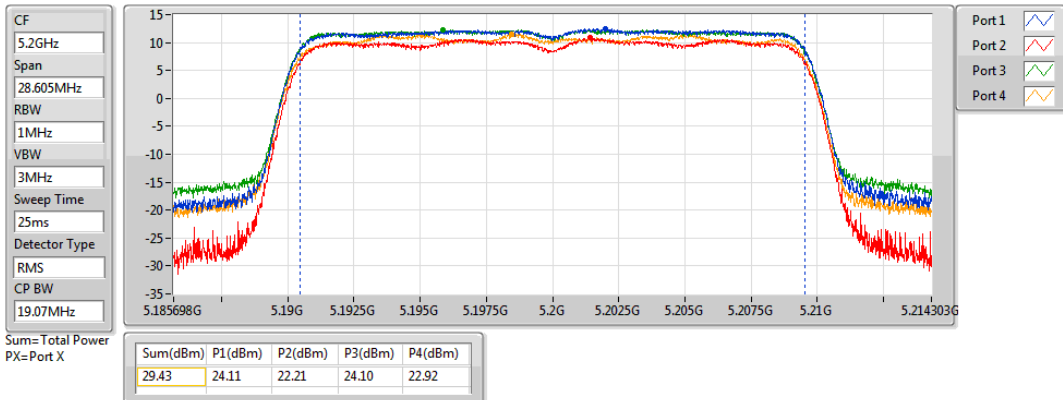


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5200MHz

29/10/2019

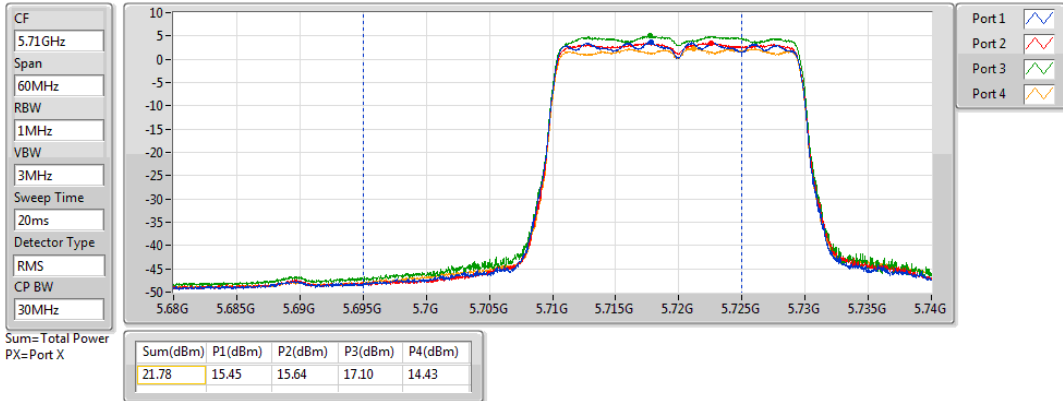


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

26/10/2019

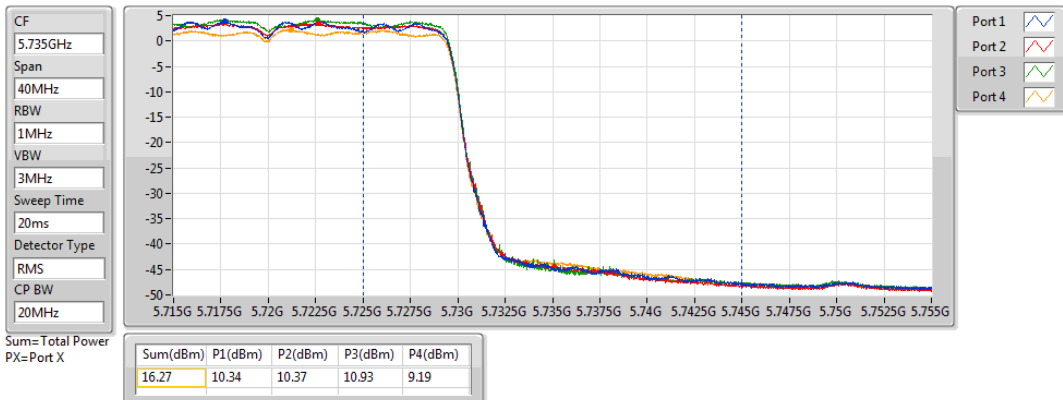


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

26/10/2019

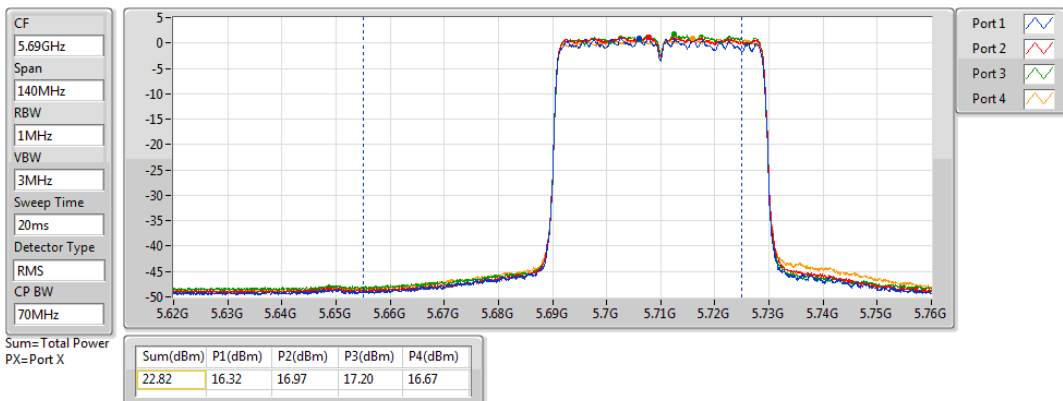


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

26/10/2019

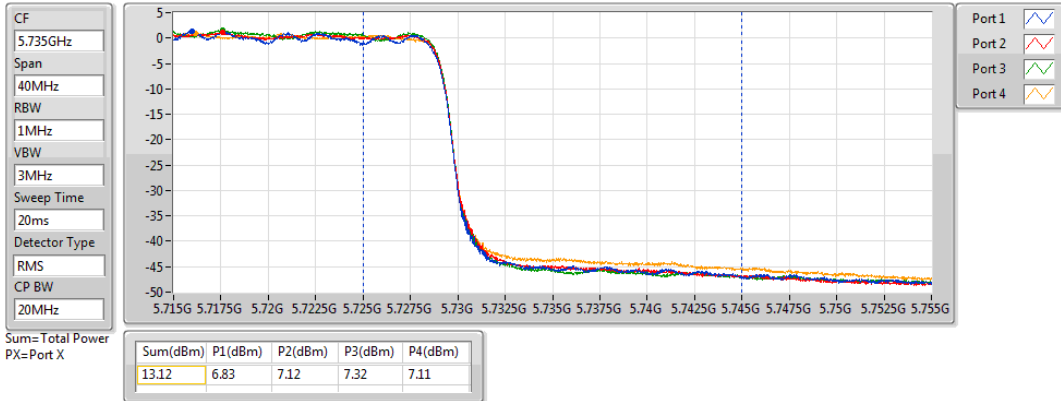


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

26/10/2019

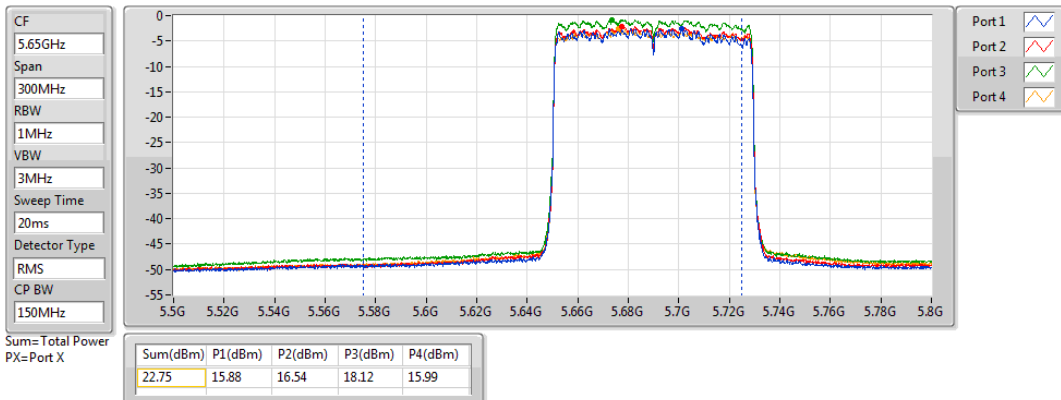


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

26/10/2019

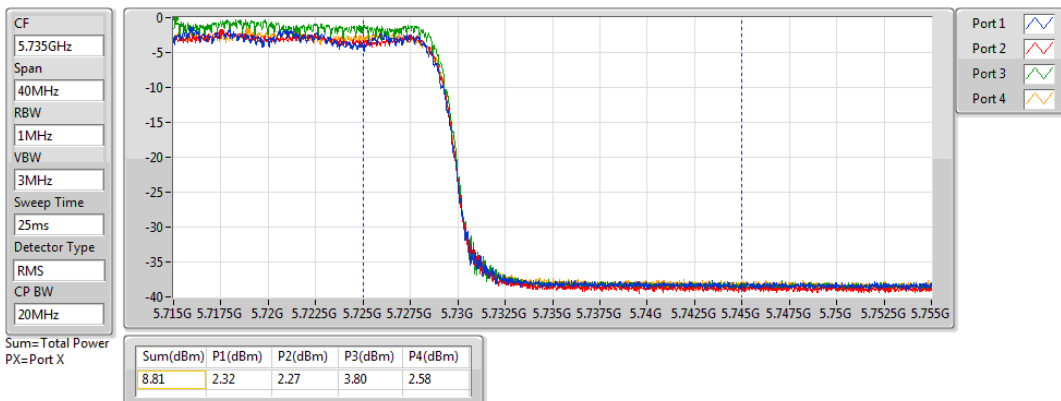


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

26/10/2019

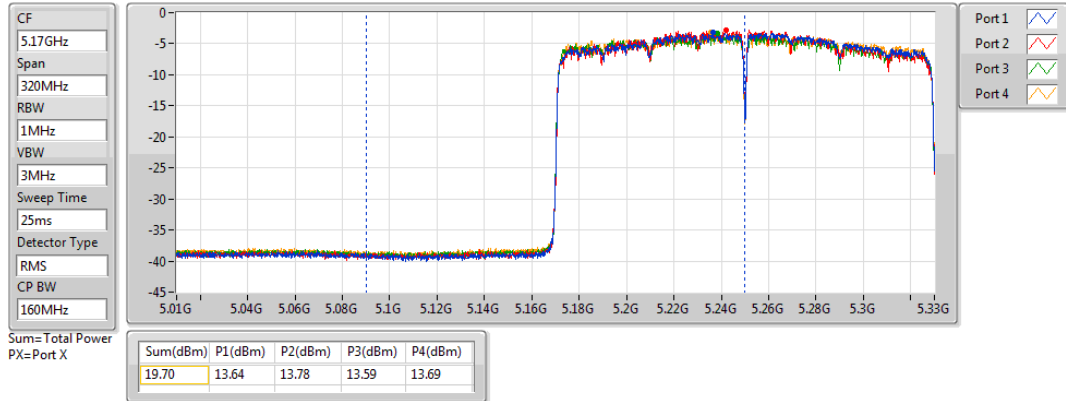


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

26/10/2019

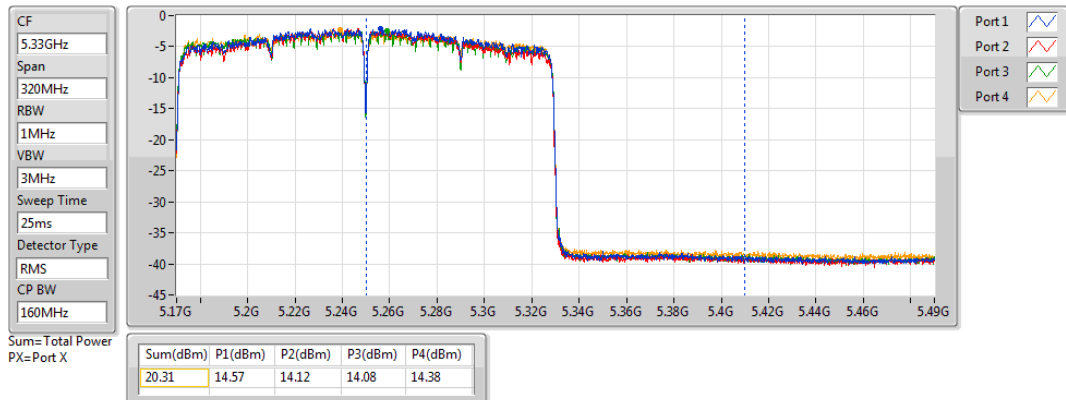


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

26/10/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.99
802.11ac VHT20_Nss1,(MCS0)_4TX	15.89
802.11ac VHT40_Nss1,(MCS0)_4TX	13.11
802.11ac VHT80_Nss1,(MCS0)_4TX	5.83
802.11ac VHT160_Nss1,(MCS0)_4TX	0.94
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.98
802.11ac VHT20_Nss1,(MCS0)_4TX	10.03
802.11ac VHT40_Nss1,(MCS0)_4TX	7.86
802.11ac VHT80_Nss1,(MCS0)_4TX	5.00
802.11ac VHT160_Nss1,(MCS0)_4TX	0.82
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.80
802.11ac VHT20_Nss1,(MCS0)_4TX	9.75
802.11ac VHT40_Nss1,(MCS0)_4TX	7.74
802.11ac VHT80_Nss1,(MCS0)_4TX	4.81
802.11ac VHT160_Nss1,(MCS0)_4TX	0.75
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.63
802.11ac VHT20_Nss1,(MCS0)_4TX	15.16
802.11ac VHT40_Nss1,(MCS0)_4TX	12.17
802.11ac VHT80_Nss1,(MCS0)_4TX	7.23

RBW = 500 kHz 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	6.83	7.58	7.61	9.44	9.55	14.27	16.17
5200MHz	Pass	6.83	9.94	8.78	11.02	11.28	15.96	16.17
5240MHz	Pass	6.83	9.87	9.26	10.81	11.12	15.99	16.17
5260MHz	Pass	6.83	3.59	4.45	4.03	4.59	9.95	10.17
5300MHz	Pass	6.83	3.30	3.82	4.07	5.09	9.98	10.17
5320MHz	Pass	6.83	3.52	3.56	4.47	4.82	9.98	10.17
5500MHz	Pass	7.15	3.39	3.68	4.07	3.98	9.66	9.85
5580MHz	Pass	7.15	4.29	3.21	4.10	3.88	9.66	9.85
5700MHz	Pass	7.15	3.95	3.38	5.04	2.61	9.72	9.85
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	4.13	3.06	5.53	2.46	9.80	9.85
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	2.02	0.71	2.83	0.33	7.47	28.85
5745MHz	Pass	7.15	10.49	9.00	10.87	9.63	15.63	28.85
5785MHz	Pass	7.15	9.49	8.37	11.22	9.43	15.26	28.85
5825MHz	Pass	7.15	9.42	9.34	11.24	9.91	15.50	28.85
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.83	7.35	6.62	8.07	8.17	13.36	16.17
5200MHz	Pass	6.83	9.63	9.14	10.36	10.94	15.86	16.17
5240MHz	Pass	6.83	9.09	9.41	10.87	10.79	15.89	16.17
5260MHz	Pass	6.83	2.87	3.99	4.84	4.85	10.03	10.17
5300MHz	Pass	6.83	3.48	3.68	4.19	5.11	9.97	10.17
5320MHz	Pass	6.83	3.48	3.59	4.25	5.29	10.03	10.17
5500MHz	Pass	7.15	2.68	3.66	4.37	4.15	9.67	9.85
5580MHz	Pass	7.15	3.63	3.50	4.70	4.31	9.75	9.85
5700MHz	Pass	7.15	3.30	3.88	5.14	3.08	9.71	9.85
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	3.52	3.44	4.87	3.06	9.60	9.85
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	1.94	1.56	3.38	1.23	7.90	28.85
5745MHz	Pass	7.15	9.32	8.37	10.44	9.61	15.16	28.85
5785MHz	Pass	7.15	9.10	8.54	10.28	9.44	15.06	28.85
5825MHz	Pass	7.15	9.12	8.28	10.13	9.41	15.01	28.85
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.83	2.55	1.80	2.70	2.89	8.24	16.17
5230MHz	Pass	6.83	6.44	6.97	7.72	8.04	13.11	16.17
5270MHz	Pass	6.83	1.35	1.94	2.12	2.81	7.86	10.17
5310MHz	Pass	6.83	1.37	0.96	1.56	3.12	7.63	10.17
5510MHz	Pass	7.15	1.65	2.20	2.65	1.01	7.73	9.85
5550MHz	Pass	7.15	2.52	1.10	2.27	1.17	7.60	9.85
5670MHz	Pass	7.15	0.82	1.37	2.12	1.98	7.39	9.85
5710MHz Straddle 5.47-5.725GHz	Pass	7.15	1.48	1.60	2.61	2.28	7.74	9.85
5710MHz Straddle 5.725-5.85GHz	Pass	7.15	-0.23	-0.62	0.51	0.62	5.77	28.85
5755MHz	Pass	7.15	6.82	5.21	7.07	6.70	12.17	28.85
5795MHz	Pass	7.15	6.22	5.15	7.45	6.58	12.11	28.85
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.83	0.31	0.20	-0.30	0.17	5.83	16.17

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)
5290MHz	Pass	6.83	-1.79	-1.06	-0.45	0.03	5.00	10.17
5530MHz	Pass	7.15	-0.83	-1.68	-0.95	-0.71	4.73	9.85
5610MHz	Pass	7.15	-1.91	-1.86	0.30	-1.27	4.62	9.85
5690MHz Straddle 5.47-5.725GHz	Pass	7.15	-2.02	-1.88	0.81	-1.75	4.81	9.85
5690MHz Straddle 5.725-5.85GHz	Pass	7.15	-4.43	-4.97	-2.59	-4.26	1.90	28.85
5775MHz	Pass	7.15	1.73	0.45	2.32	2.17	7.23	28.85
802.11ac VHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.83	-5.08	-4.51	-5.29	-4.58	0.94	16.17
5250MHz Straddle 5.25-5.35GHz	Pass	6.83	-5.25	-4.93	-5.29	-4.66	0.82	10.17
5570MHz	Pass	7.15	-4.81	-5.72	-3.98	-5.43	0.75	9.85

DG = Directional Gain; **RBW** = 500 kHz 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;

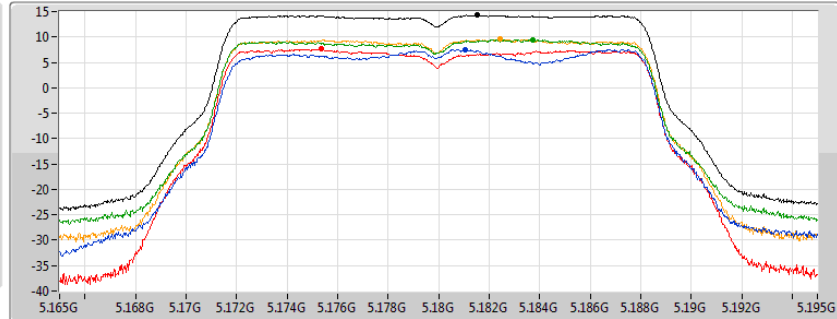
802.11a_Nss1,(6Mbps)_4TX

5180MHz

PSD

09/11/2019

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.27	14.27	7.58	7.61	9.44	9.55

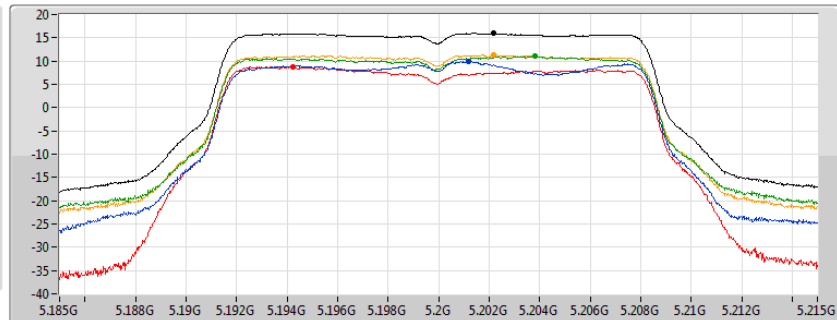
802.11a_Nss1,(6Mbps)_4TX

5200MHz

PSD

09/11/2019

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.96	15.96	9.94	8.78	11.02	11.28

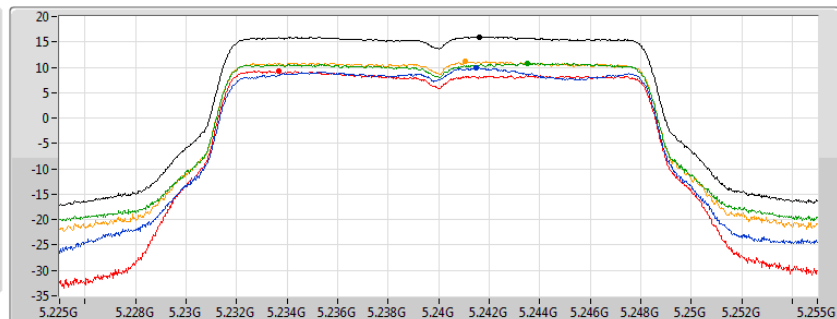
802.11a_Nss1,(6Mbps)_4TX

5240MHz

PSD

09/11/2019

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.99	15.99	9.87	9.26	10.81	11.12

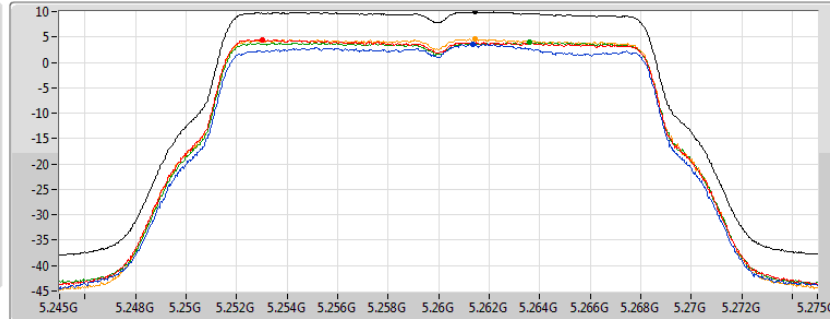
802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

09/11/2019

CF
5.26GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.95	9.95	3.59	4.45	4.03	4.59

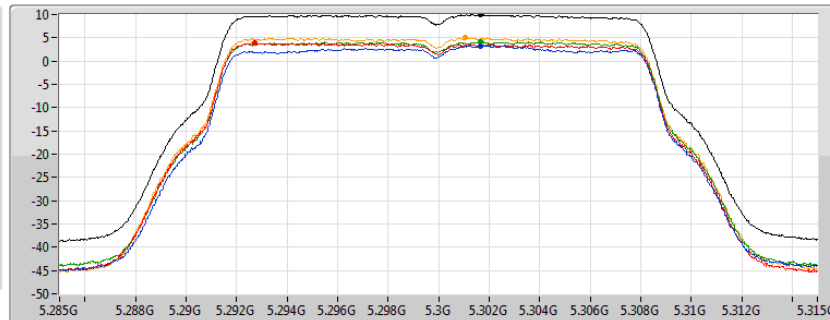
802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

09/11/2019

CF
5.3GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.98	9.98	3.30	3.82	4.07	5.09

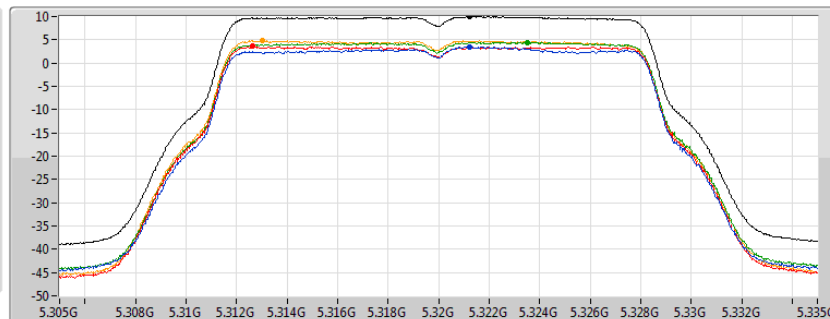
802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

09/11/2019

CF
5.32GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2
Port 3
Port 4

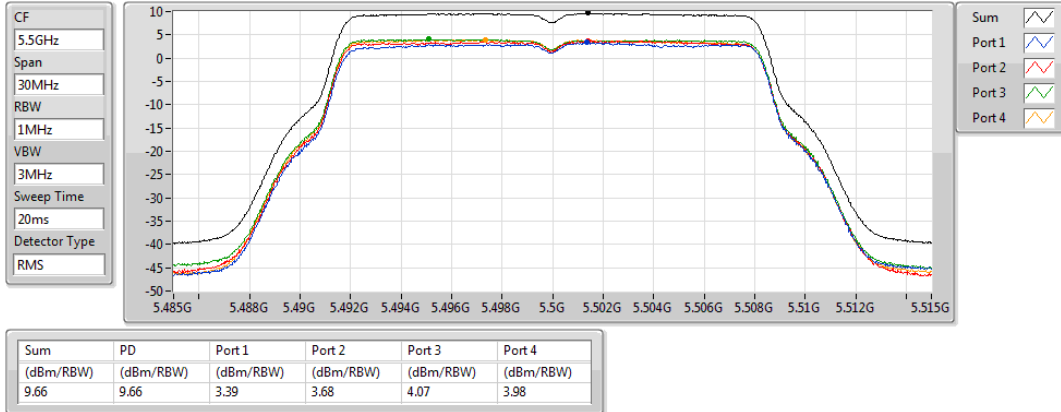
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.98	9.98	3.52	3.56	4.47	4.82

802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

09/11/2019

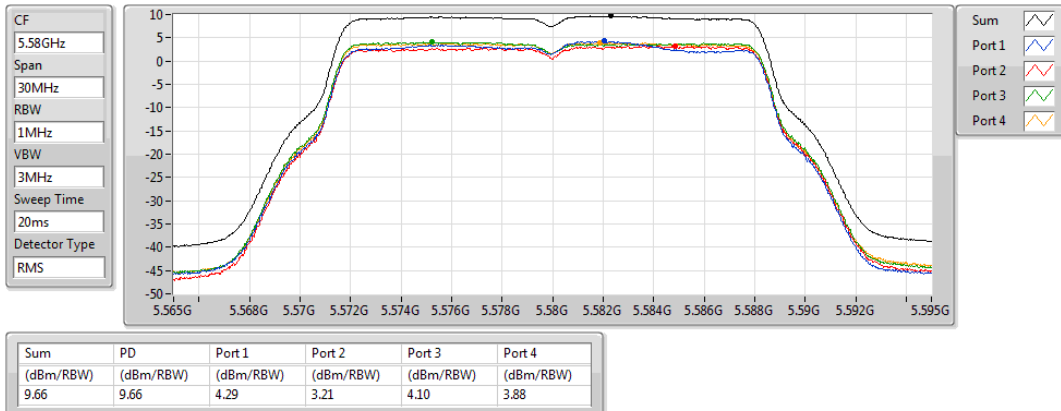


802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

09/11/2019

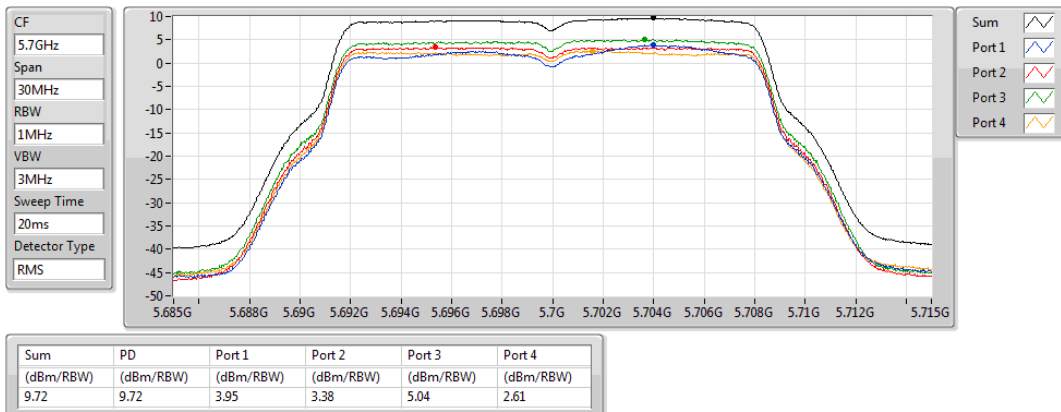


802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

09/11/2019

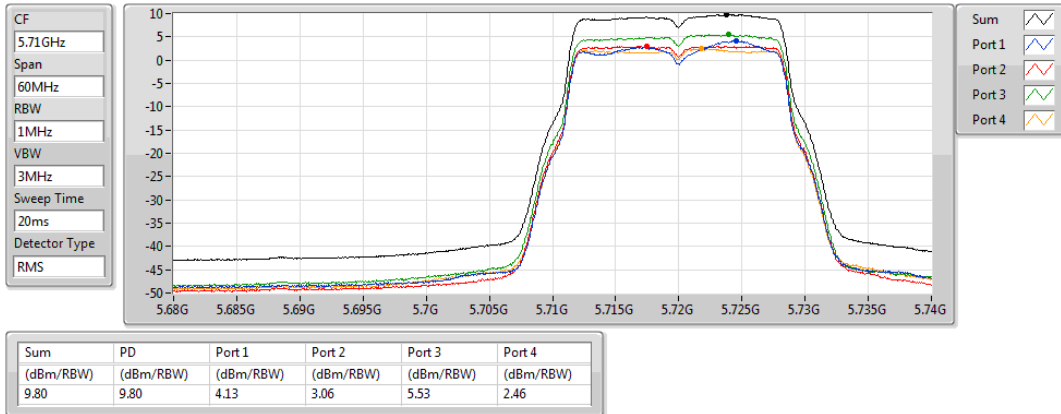


802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

09/11/2019

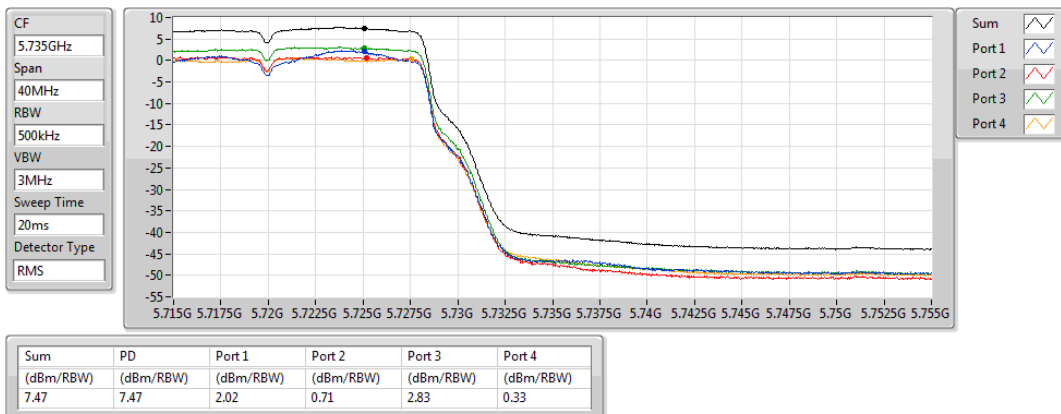


802.11a_Nss1,(6Mbps)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

09/11/2019

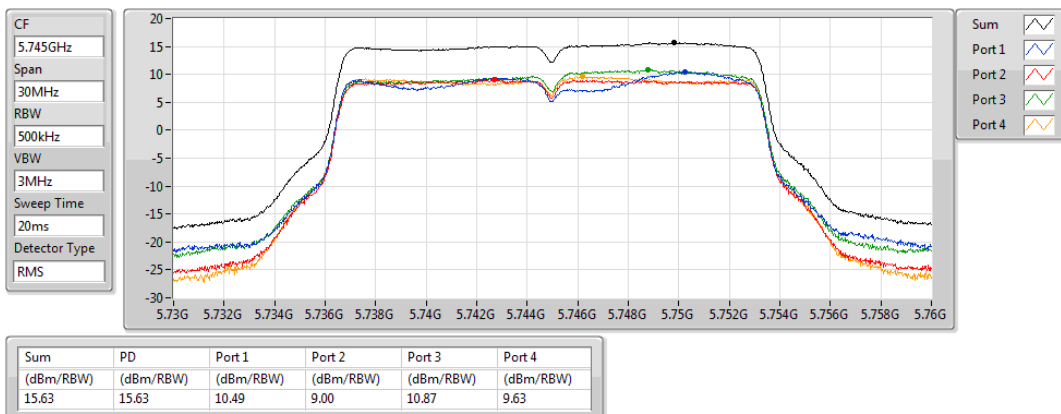


802.11a_Nss1,(6Mbps)_4TX

PSD

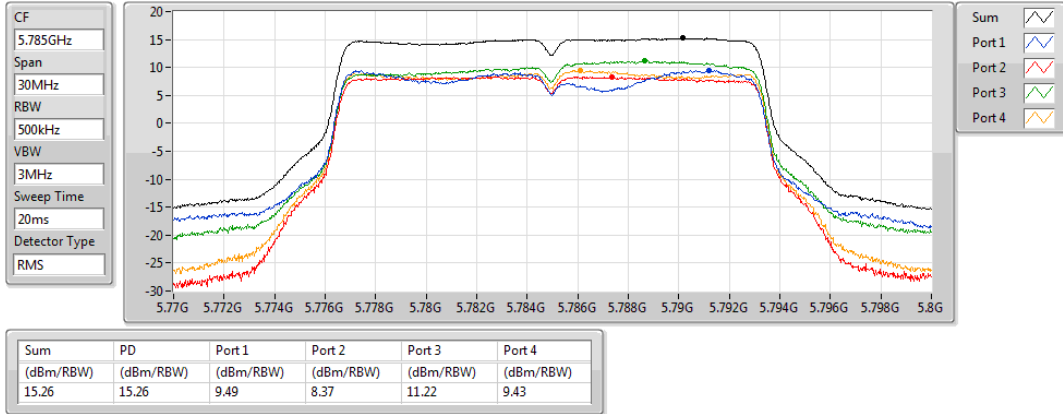
5745MHz

09/11/2019



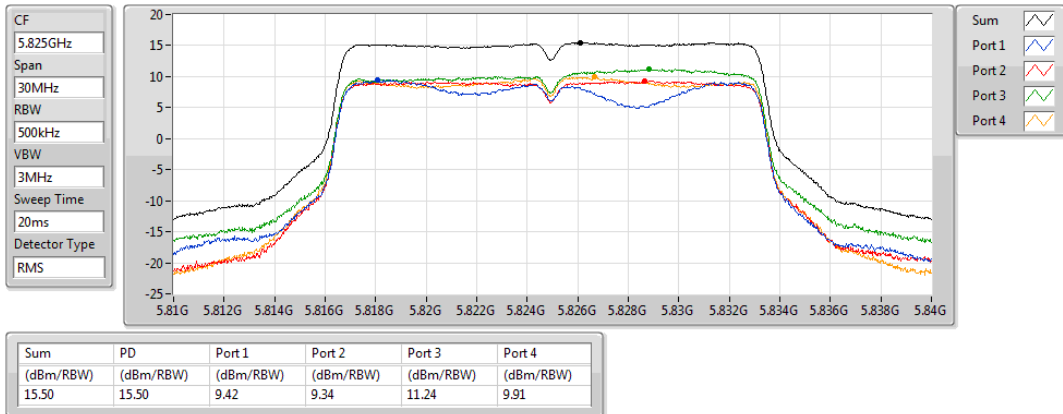
802.11a_Nss1,(6Mbps)_4TX

5785MHz



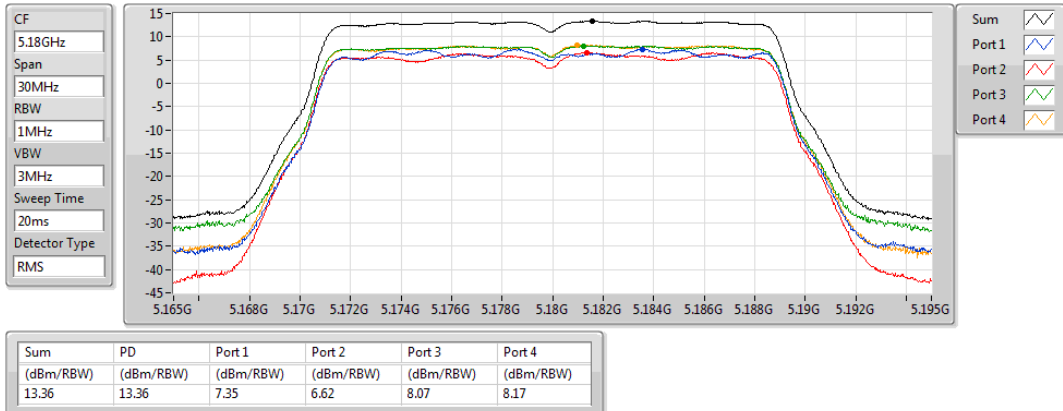
802.11a_Nss1,(6Mbps)_4TX

5825MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz

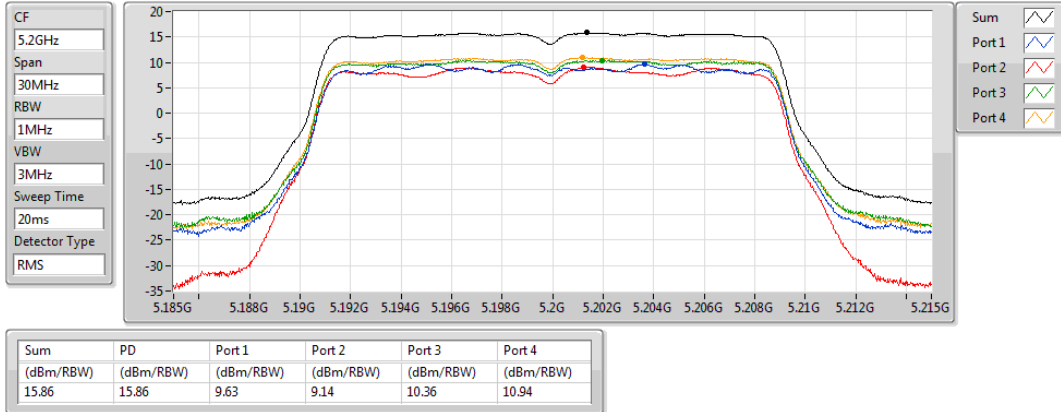


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5200MHz

09/11/2019

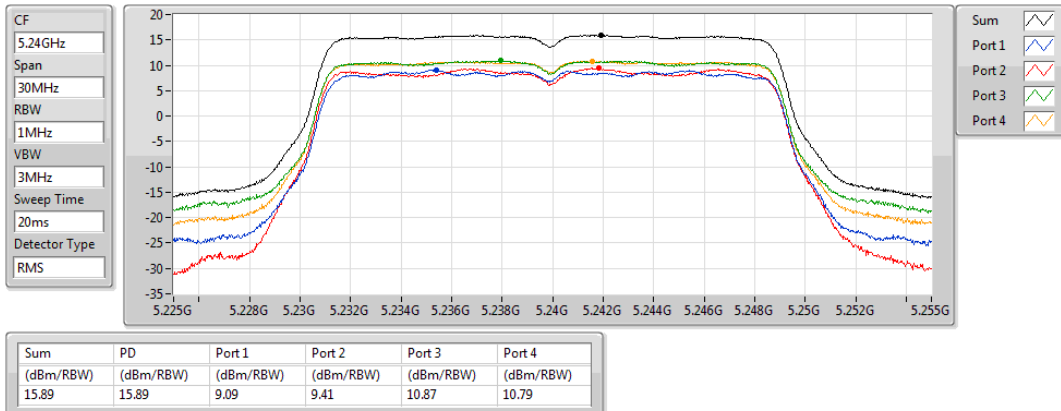


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5240MHz

09/11/2019

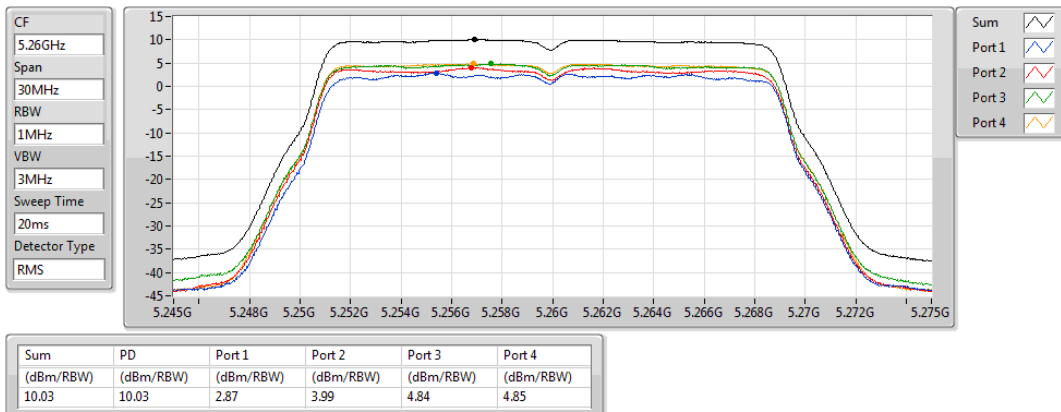


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5260MHz

09/11/2019

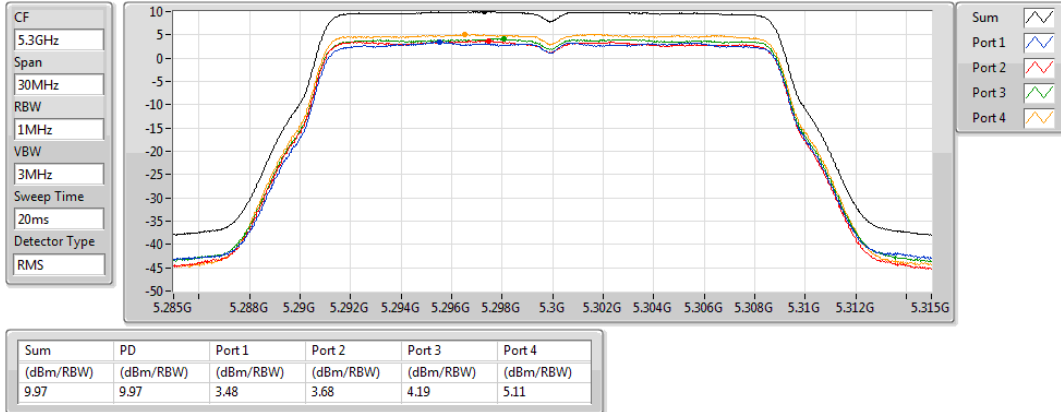


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5300MHz

09/11/2019

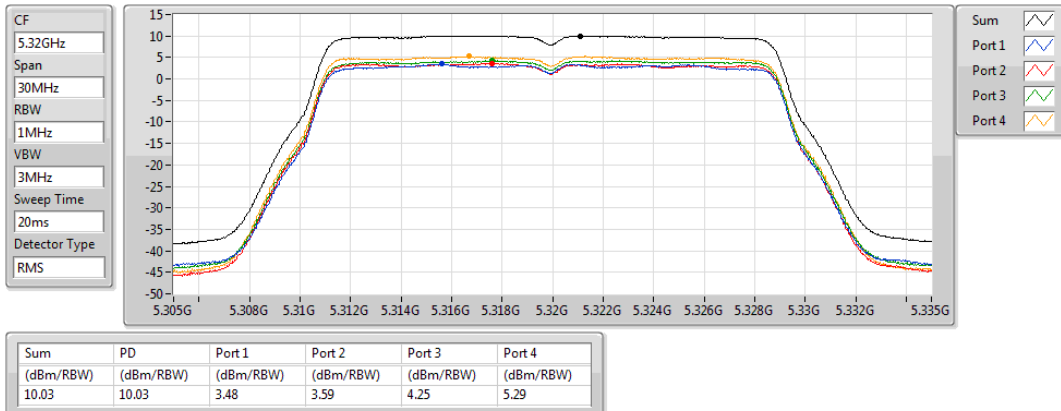


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5320MHz

09/11/2019

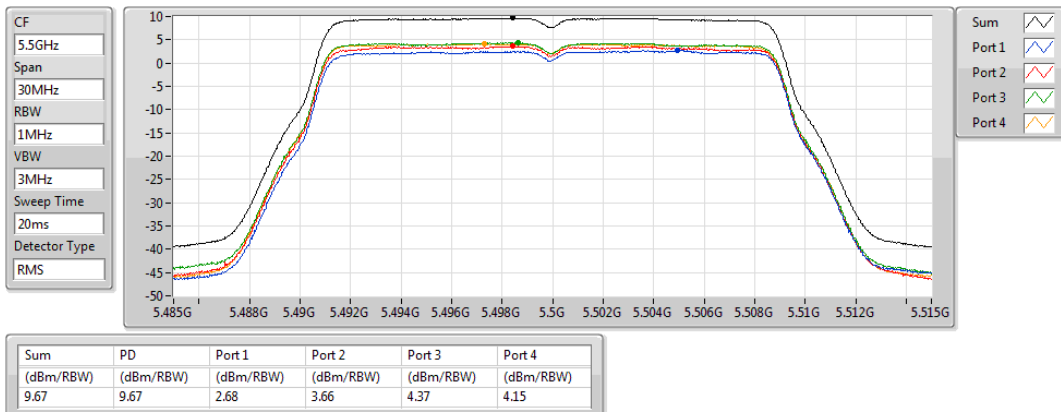


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5500MHz

09/11/2019

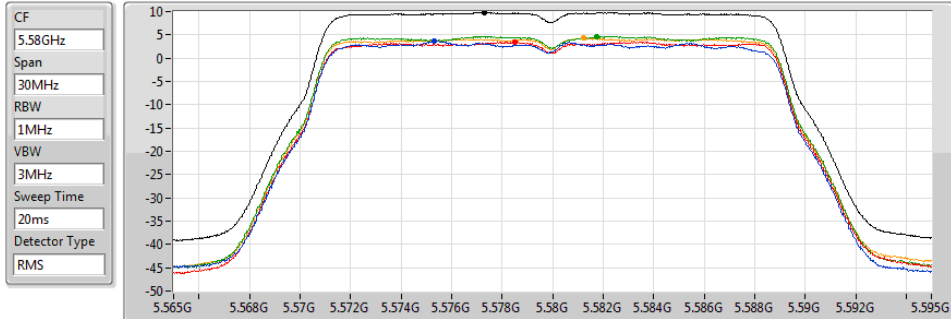


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5580MHz

09/11/2019



Sum
Port 1
Port 2
Port 3
Port 4

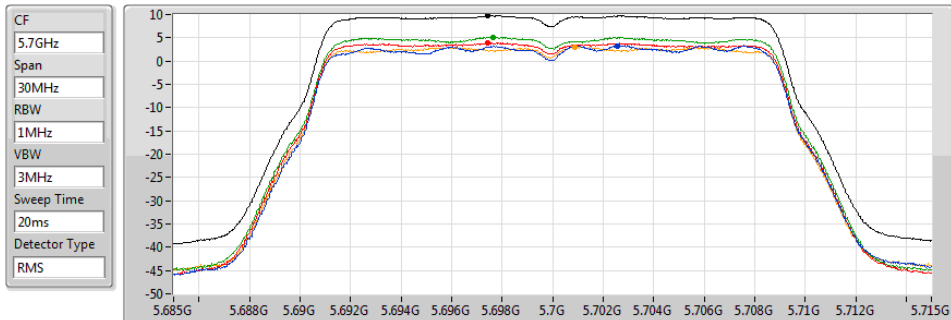
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.75	9.75	3.63	3.50	4.70	4.31

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5700MHz

09/11/2019



Sum
Port 1
Port 2
Port 3
Port 4

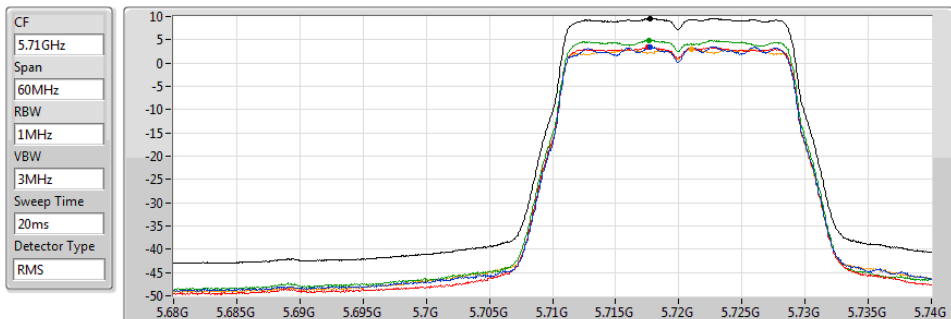
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.71	9.71	3.30	3.88	5.14	3.08

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

09/11/2019



Sum
Port 1
Port 2
Port 3
Port 4

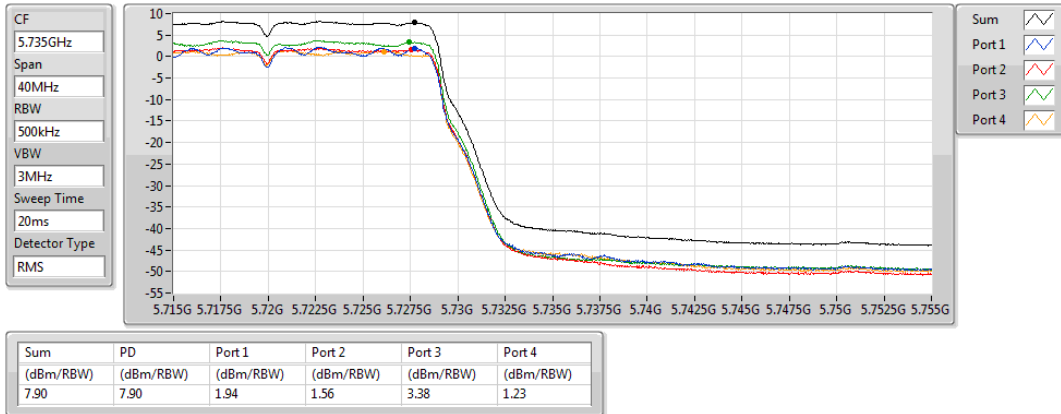
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.60	9.60	3.52	3.44	4.87	3.06

802.11ac VHT20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

09/11/2019

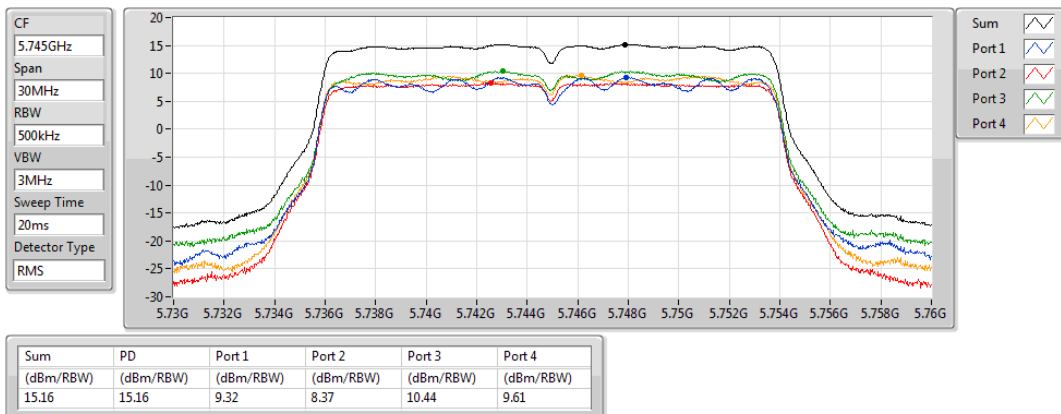


802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz

PSD

09/11/2019

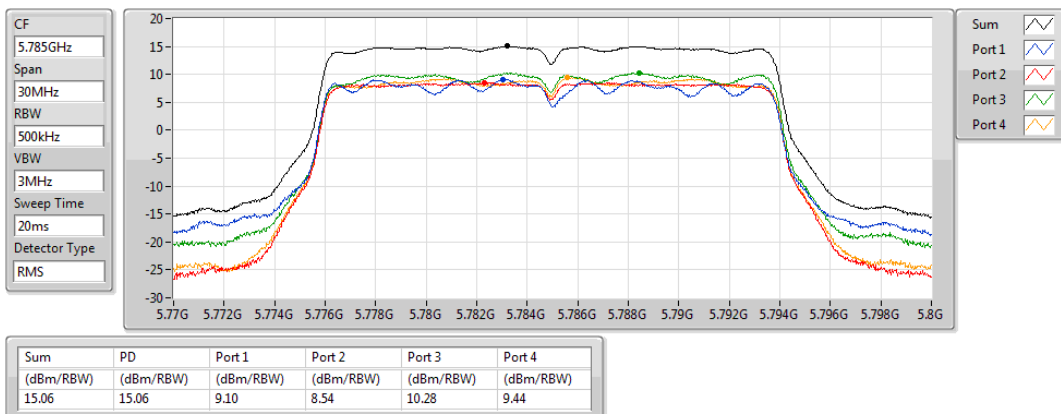


802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz

PSD

09/11/2019

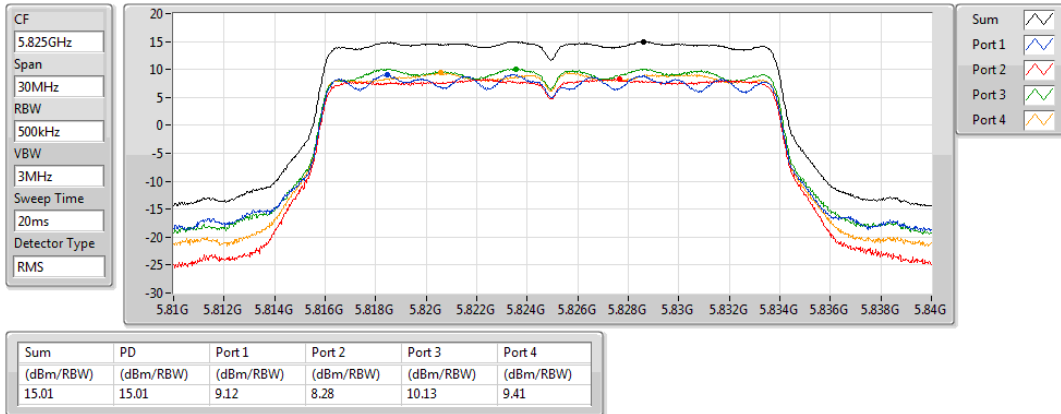


802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz

PSD

09/11/2019

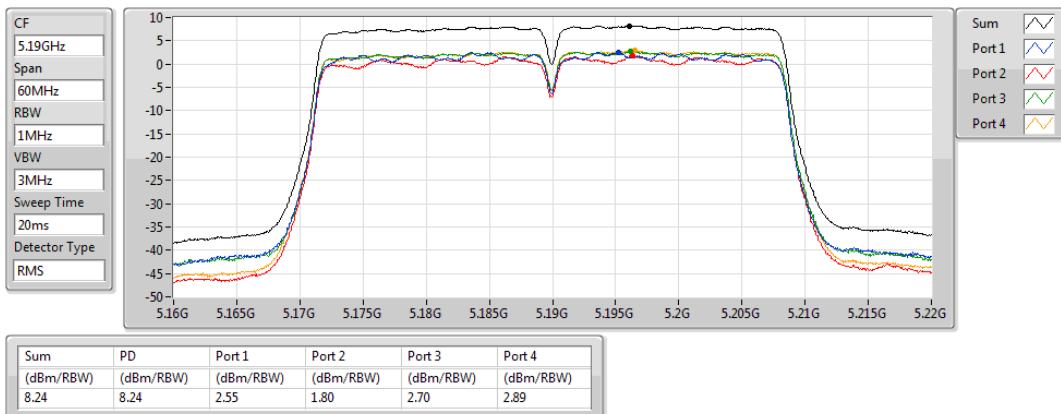


802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz

PSD

09/11/2019

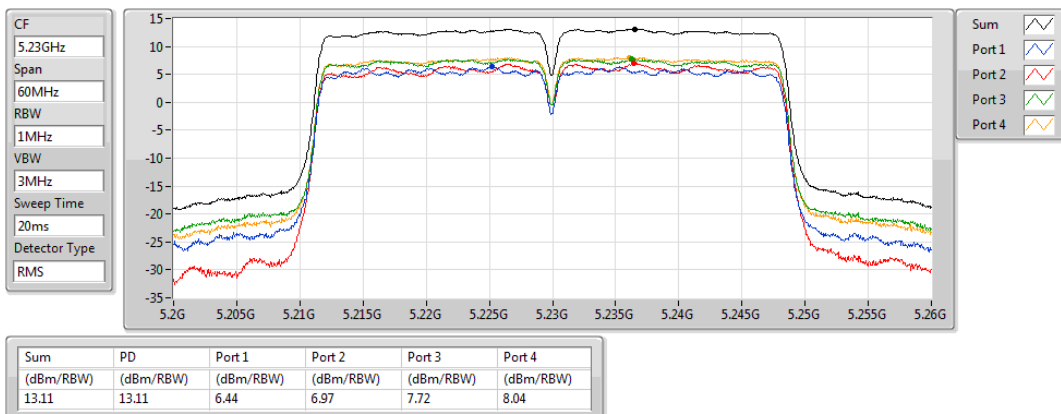


802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz

PSD

09/11/2019

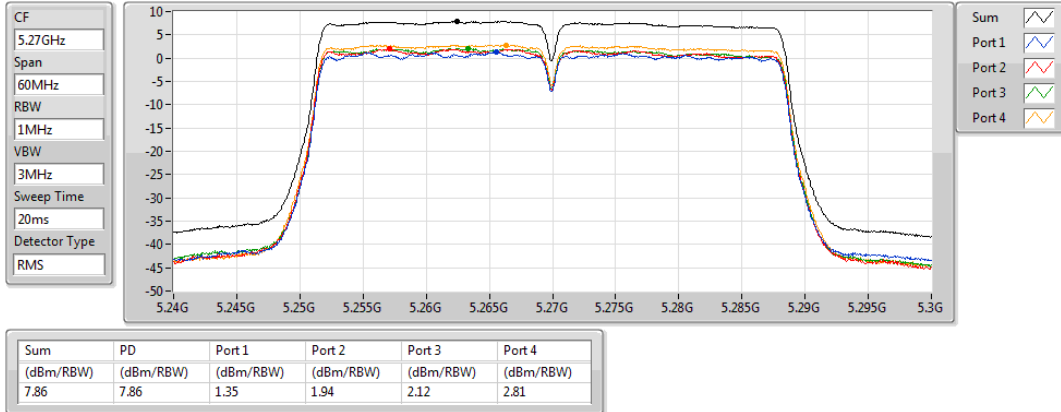


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5270MHz

09/11/2019

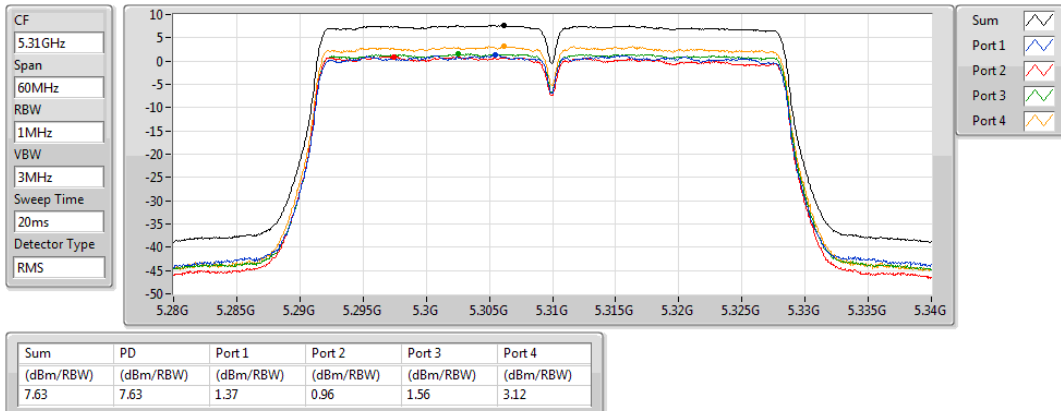


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5310MHz

09/11/2019

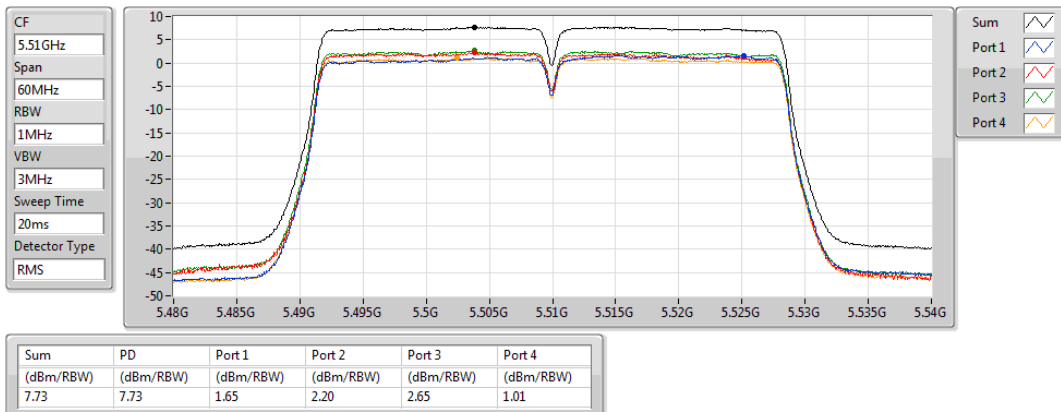


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5510MHz

09/11/2019

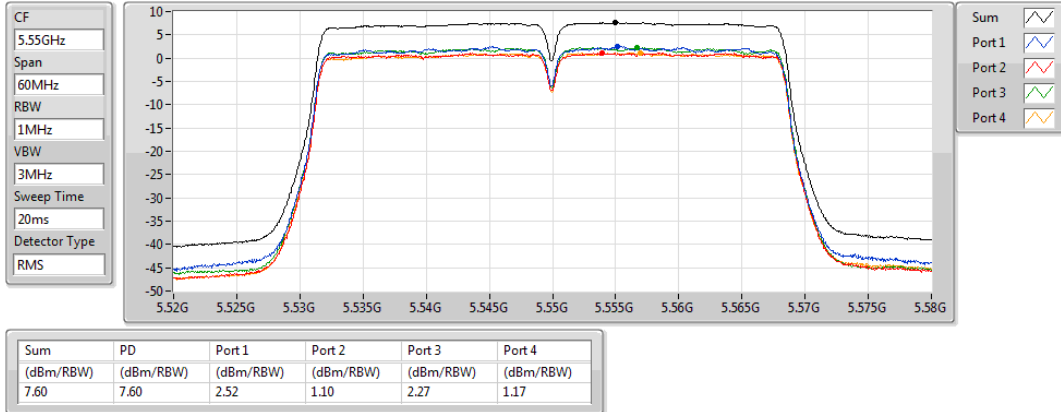


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5550MHz

09/11/2019

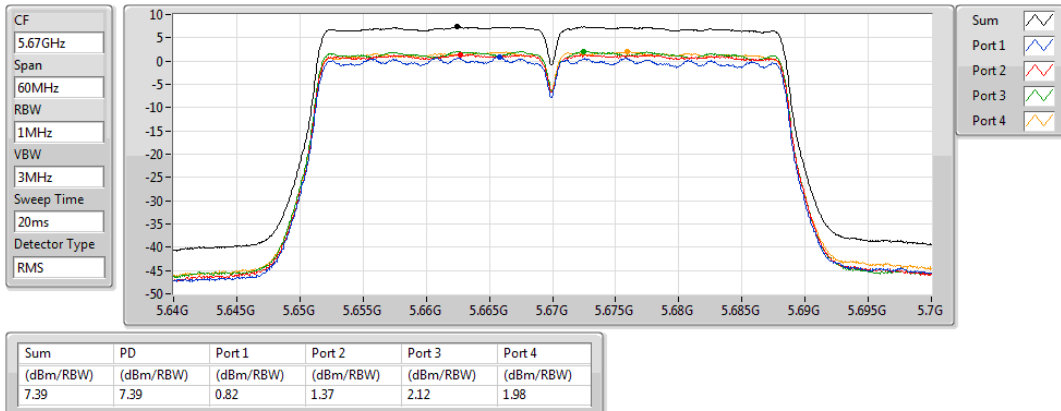


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5670MHz

09/11/2019

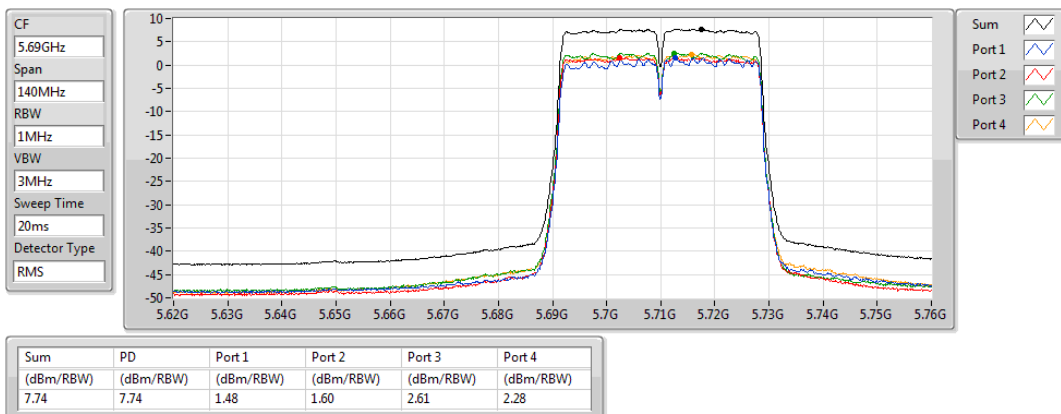


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

09/11/2019

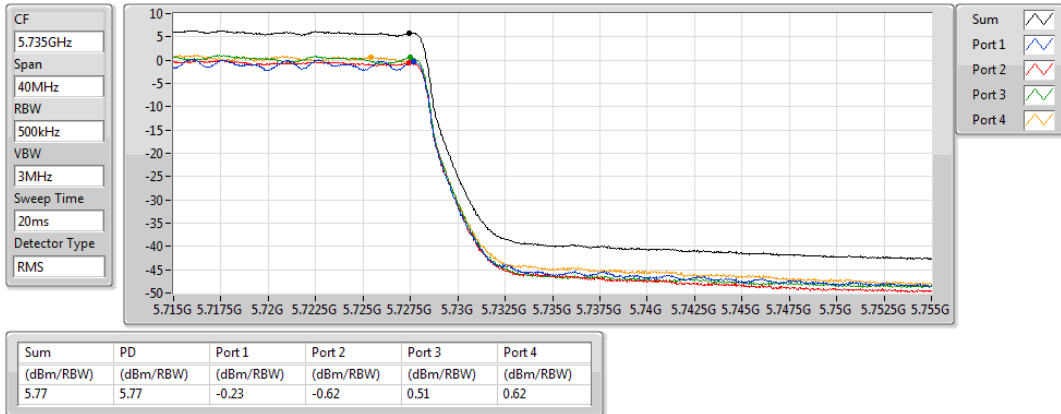


802.11ac VHT40_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

09/11/2019

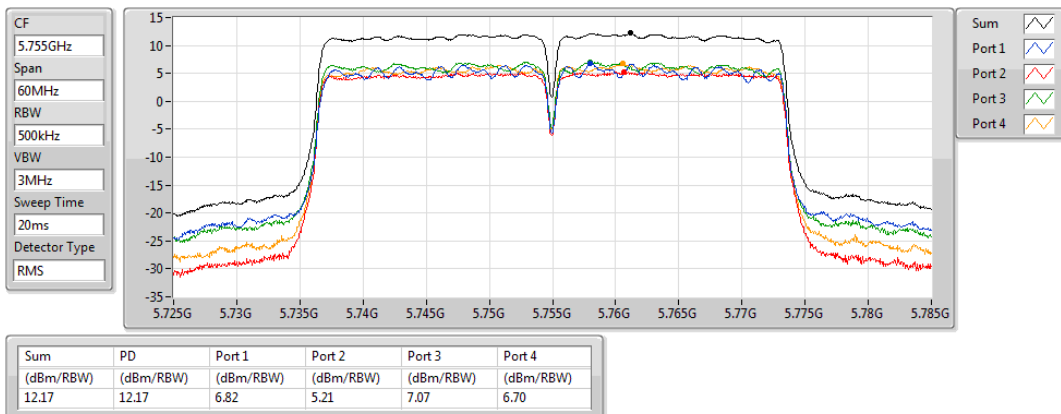


802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz

PSD

09/11/2019

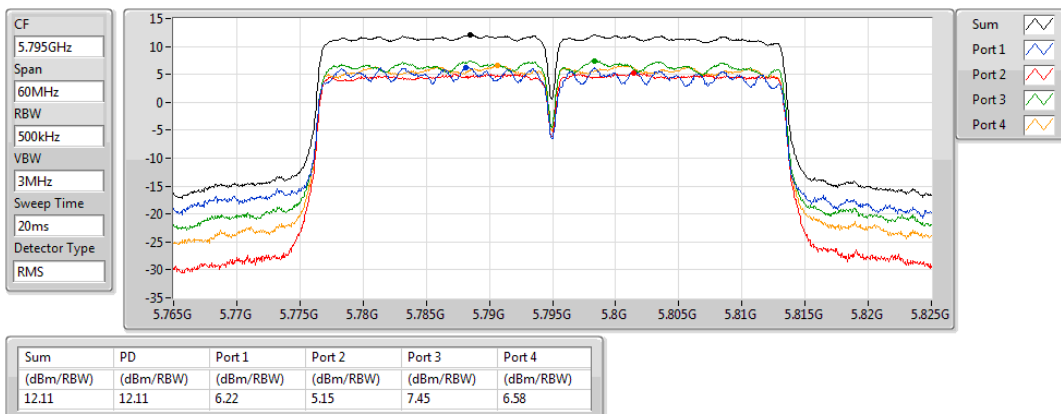


802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz

PSD

09/11/2019

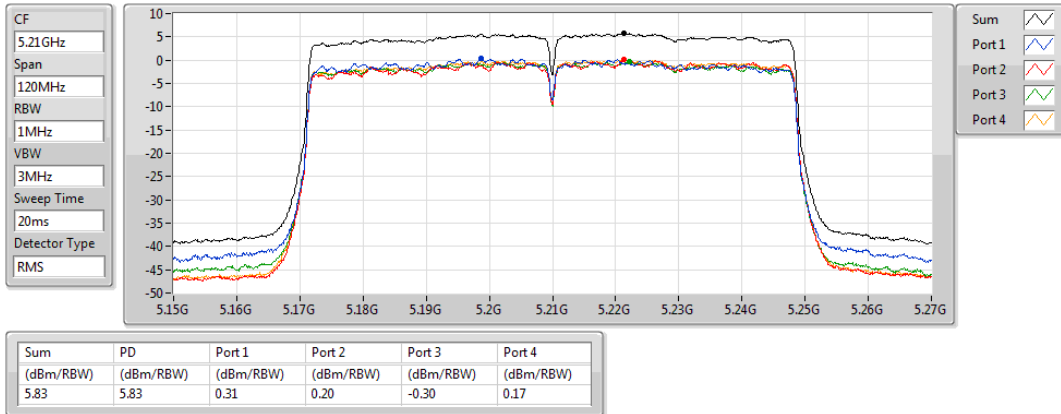


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5210MHz

09/11/2019

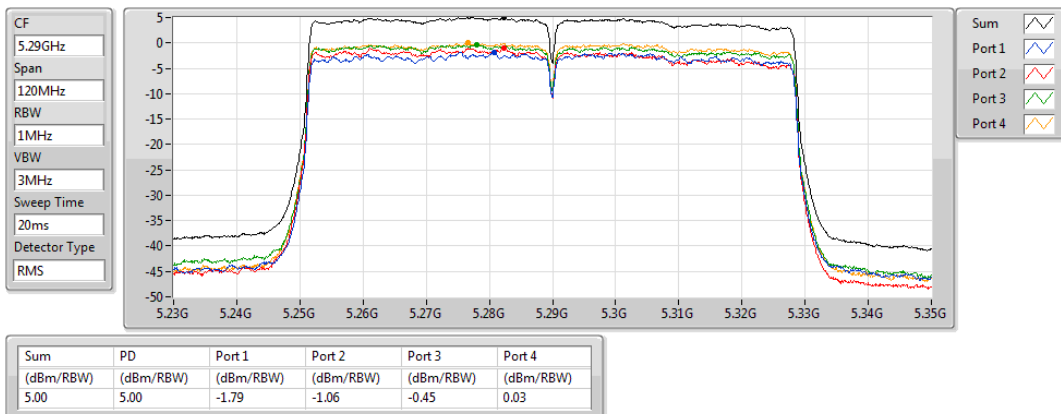


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5290MHz

09/11/2019

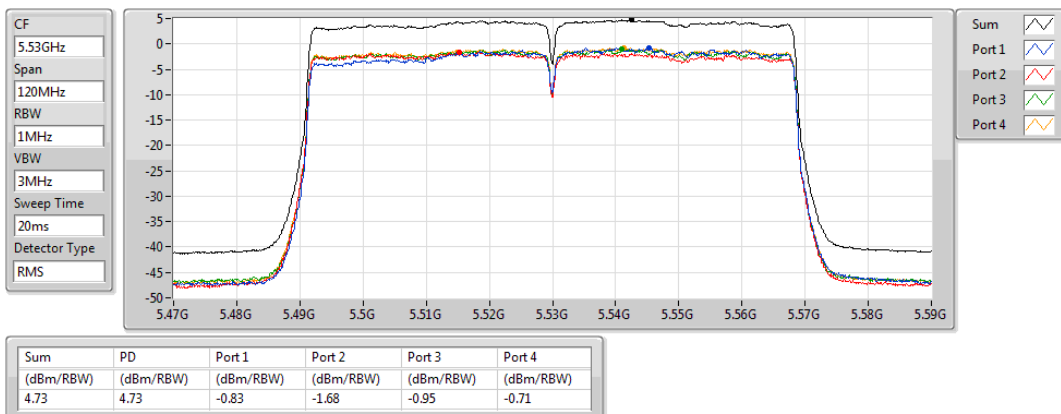


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5530MHz

09/11/2019

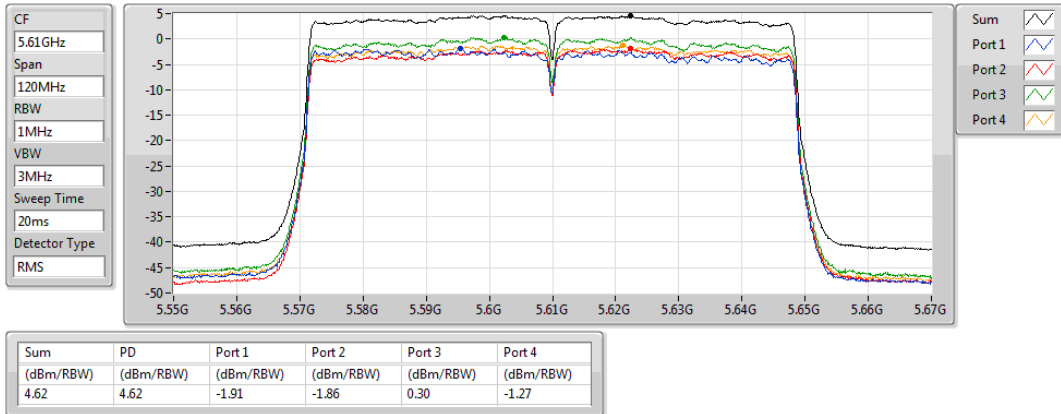


802.11ac VHT80_Nss1,(MCS0)_4TX

5610MHz

PSD

09/11/2019

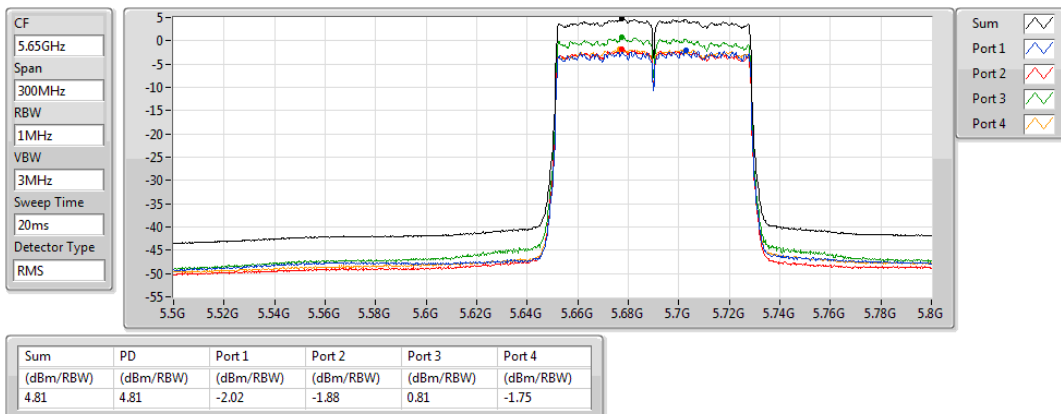


802.11ac VHT80_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz

PSD

09/11/2019

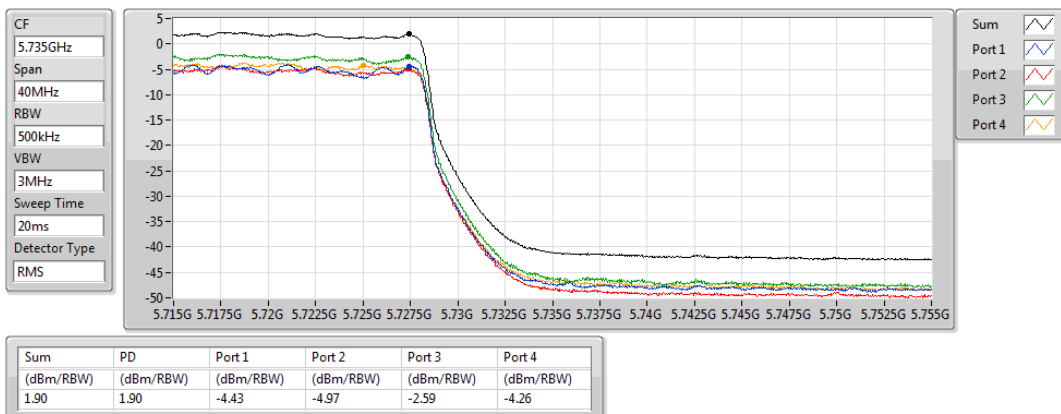


802.11ac VHT80_Nss1,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

09/11/2019

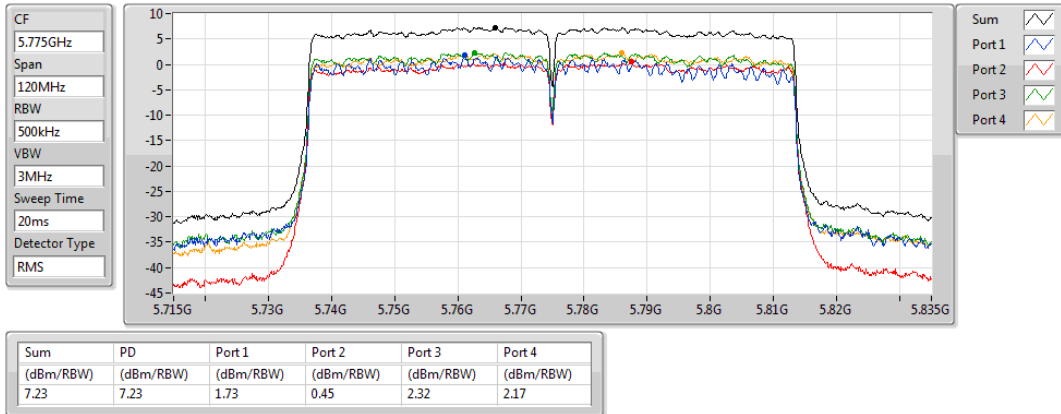


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5775MHz

09/11/2019

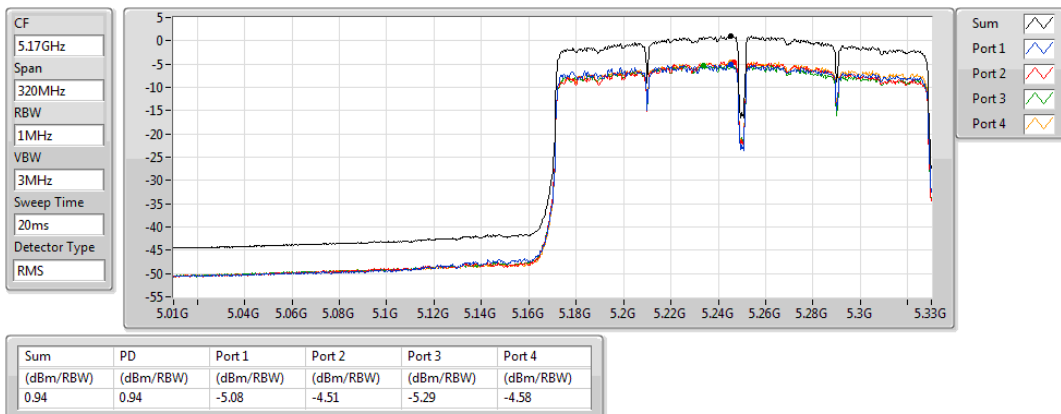


802.11ac VHT160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

09/11/2019

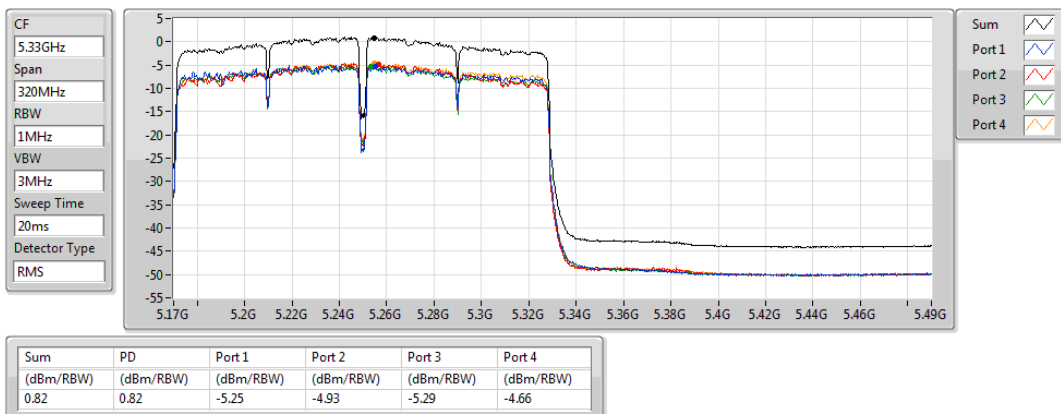


802.11ac VHT160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

09/11/2019

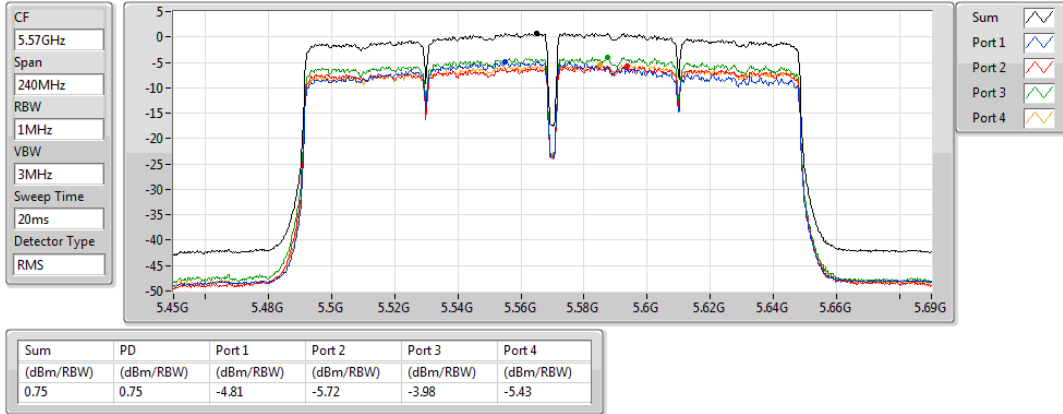


802.11ac VHT160_Nss1,(MCS0)_4TX

5570MHz

PSD

09/11/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	16.13
802.11ax HEW40_Nss1,(MCS0)_4TX	13.76
802.11ax HEW80_Nss1,(MCS0)_4TX	3.98
802.11ax HEW160_Nss1,(MCS0)_4TX	1.66
5.25-5.35GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	10.14
802.11ax HEW40_Nss1,(MCS0)_4TX	7.89
802.11ax HEW80_Nss1,(MCS0)_4TX	5.03
802.11ax HEW160_Nss1,(MCS0)_4TX	2.08
5.47-5.725GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	9.79
802.11ax HEW40_Nss1,(MCS0)_4TX	7.87
802.11ax HEW80_Nss1,(MCS0)_4TX	5.17
802.11ax HEW160_Nss1,(MCS0)_4TX	0.21
5.725-5.85GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	15.61
802.11ax HEW40_Nss1,(MCS0)_4TX	12.54
802.11ax HEW80_Nss1,(MCS0)_4TX	6.53

RBW = 500 kHz 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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.83	7.27	7.41	8.11	8.86	13.71	16.17
5200MHz	Pass	6.83	10.19	9.61	10.45	10.91	16.13	16.17
5240MHz	Pass	6.83	9.99	9.61	10.61	11.11	16.12	16.17
5260MHz	Pass	6.83	4.14	4.64	4.07	4.61	10.12	10.17
5300MHz	Pass	6.83	4.05	3.95	4.06	4.78	10.04	10.17
5320MHz	Pass	6.83	4.06	4.10	4.04	4.97	10.14	10.17
5500MHz	Pass	7.15	3.51	3.97	4.14	3.92	9.78	9.85
5580MHz	Pass	7.15	3.86	3.69	4.40	4.01	9.77	9.85
5700MHz	Pass	7.15	3.11	3.54	5.47	2.72	9.67	9.85
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	3.67	3.68	5.31	2.89	9.79	9.85
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	2.07	1.97	3.66	1.45	8.10	28.85
5745MHz	Pass	7.15	9.56	8.65	10.57	9.61	15.31	28.85
5785MHz	Pass	7.15	9.74	8.90	10.94	9.93	15.61	28.85
5825MHz	Pass	7.15	9.61	8.64	10.66	9.72	15.43	28.85
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.83	2.82	1.96	2.16	2.88	8.25	16.17
5230MHz	Pass	6.83	7.24	7.51	8.33	8.69	13.76	16.17
5270MHz	Pass	6.83	1.94	1.73	2.02	2.78	7.83	10.17
5310MHz	Pass	6.83	2.25	1.81	1.58	2.73	7.89	10.17
5510MHz	Pass	7.15	2.43	1.56	2.57	1.63	7.87	9.85
5550MHz	Pass	7.15	2.00	1.25	2.07	1.18	7.41	9.85
5670MHz	Pass	7.15	0.85	1.38	2.52	2.12	7.57	9.85
5710MHz Straddle 5.47-5.725GHz	Pass	7.15	1.38	1.64	2.48	2.23	7.68	9.85
5710MHz Straddle 5.725-5.85GHz	Pass	7.15	-0.27	-0.46	0.31	0.16	5.72	28.85
5755MHz	Pass	7.15	7.03	5.56	7.52	6.86	12.39	28.85
5795MHz	Pass	7.15	7.09	5.59	7.77	7.10	12.54	28.85
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.83	-1.49	-1.55	-2.07	-1.78	3.98	16.17
5290MHz	Pass	6.83	-1.42	-0.98	-0.66	-0.25	5.03	10.17
5530MHz	Pass	7.15	-0.55	-0.90	-0.75	-0.27	5.17	9.85
5610MHz	Pass	7.15	-1.18	-1.79	0.97	-1.18	5.08	9.85
5690MHz Straddle 5.47-5.725GHz	Pass	7.15	-1.96	-1.94	0.69	-1.44	4.72	9.85
5690MHz Straddle 5.725-5.85GHz	Pass	7.15	-3.99	-4.32	-2.54	-3.86	2.12	28.85
5775MHz	Pass	7.15	1.39	-0.64	1.61	1.26	6.53	28.85
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.83	-4.27	-4.02	-4.73	-4.18	1.66	16.17
5250MHz Straddle 5.25-5.35GHz	Pass	6.83	-3.41	-3.45	-4.60	-3.77	2.08	10.17
5570MHz	Pass	7.15	-5.29	-6.29	-4.69	-5.82	0.21	9.85

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

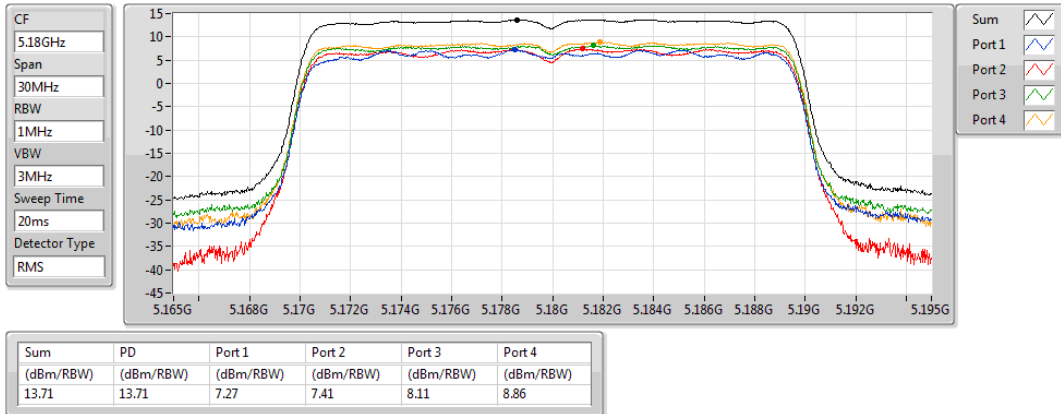
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

09/11/2019

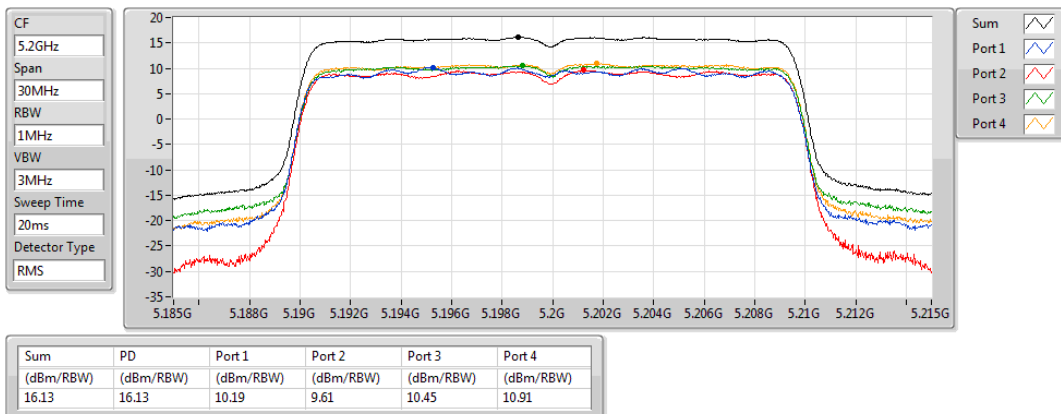


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

09/11/2019

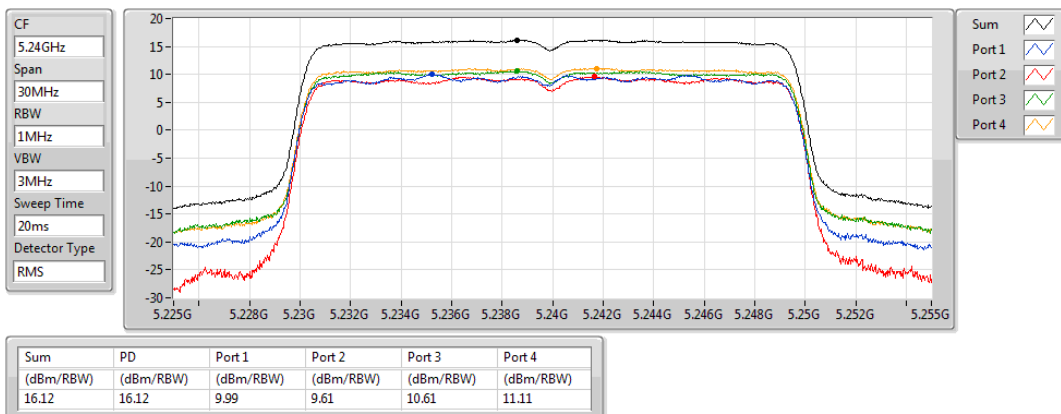


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

09/11/2019

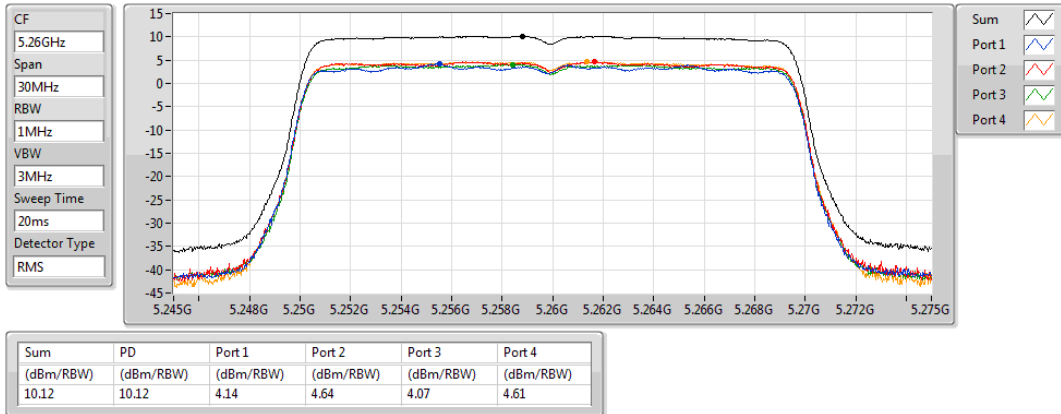


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5260MHz

09/11/2019

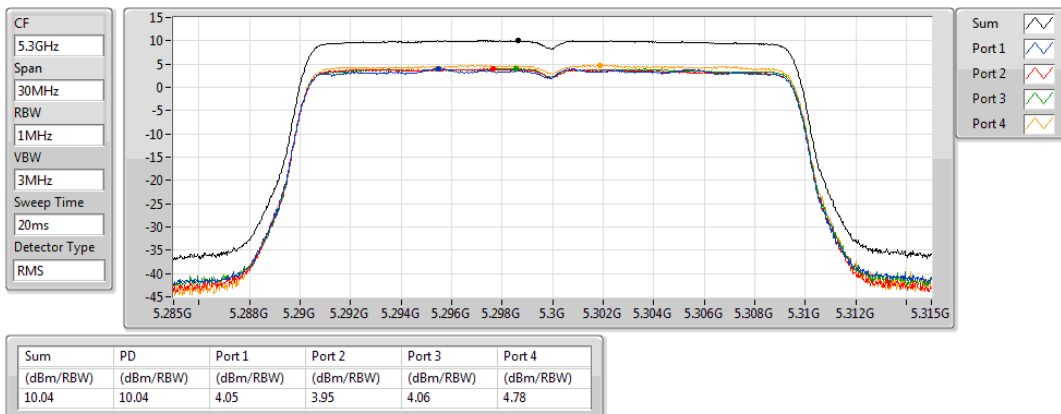


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5300MHz

09/11/2019

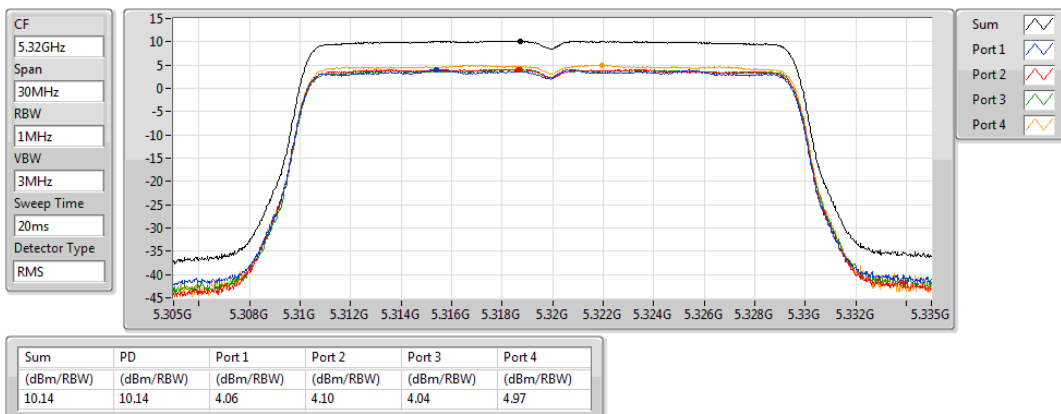


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5320MHz

09/11/2019

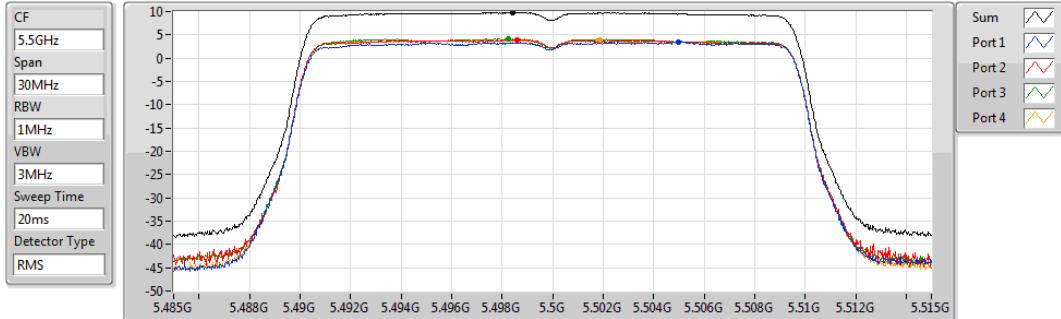


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5500MHz

09/11/2019



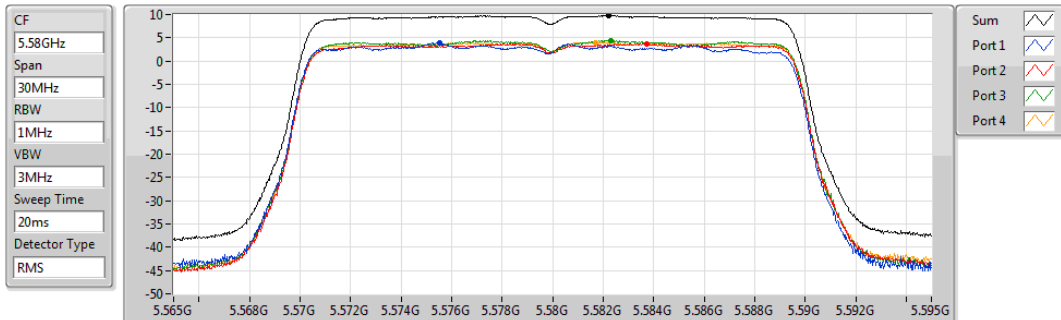
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.78	9.78	3.51	3.97	4.14	3.92

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5580MHz

09/11/2019



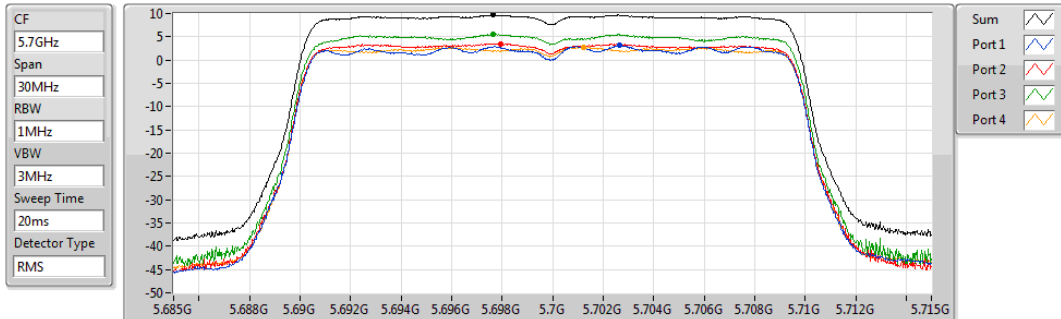
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.77	9.77	3.86	3.69	4.40	4.01

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5700MHz

09/11/2019



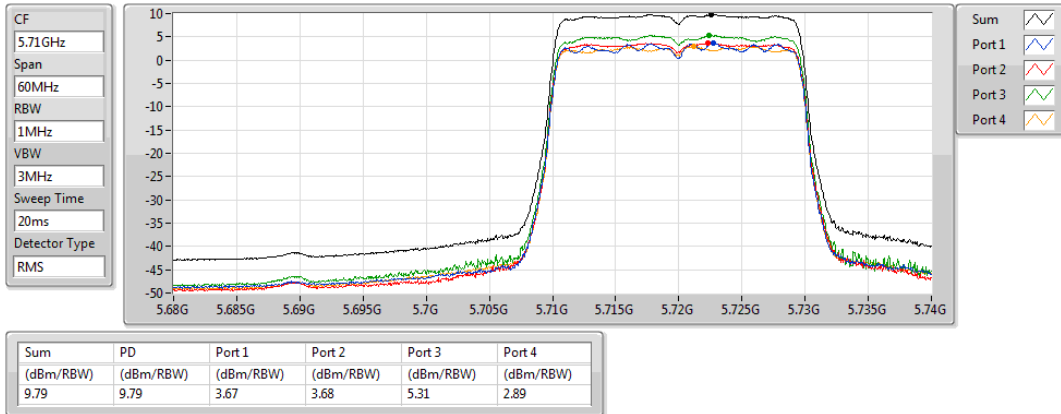
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.67	9.67	3.11	3.54	5.47	2.72

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

09/11/2019

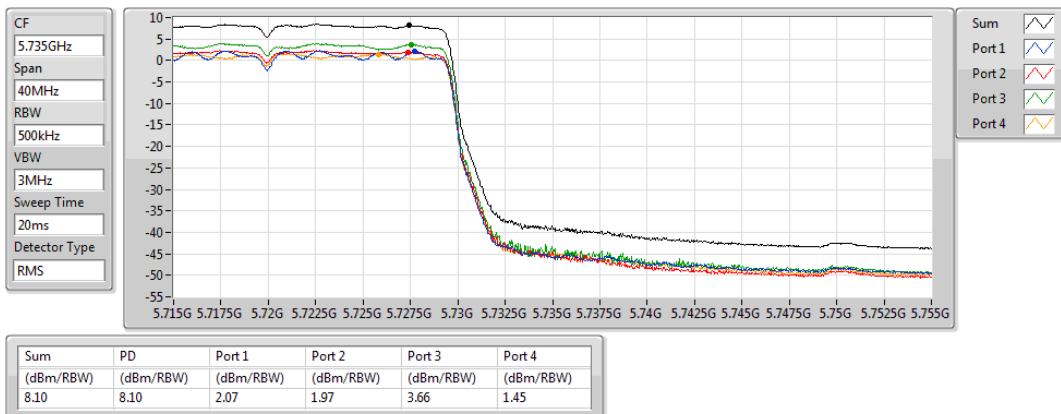


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

09/11/2019

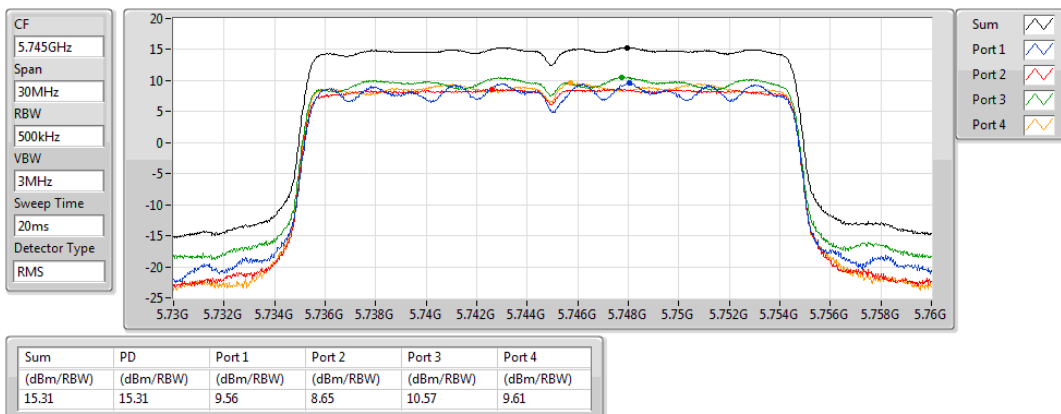


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

09/11/2019

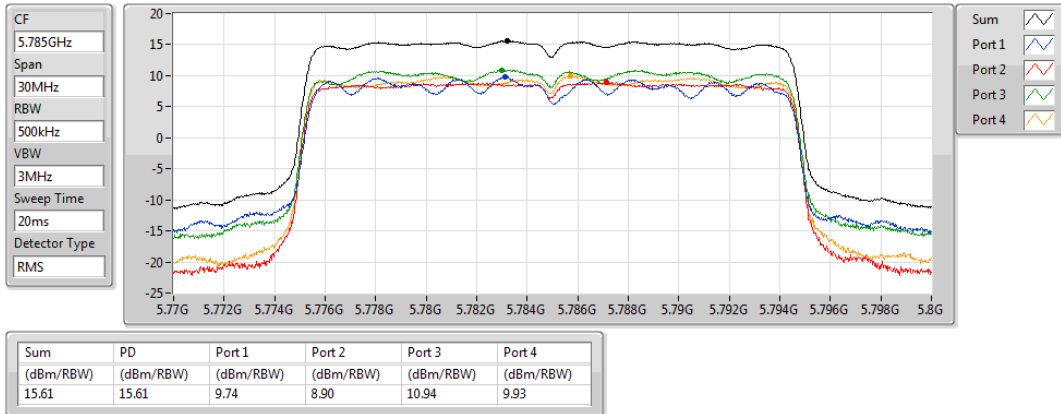


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

09/11/2019

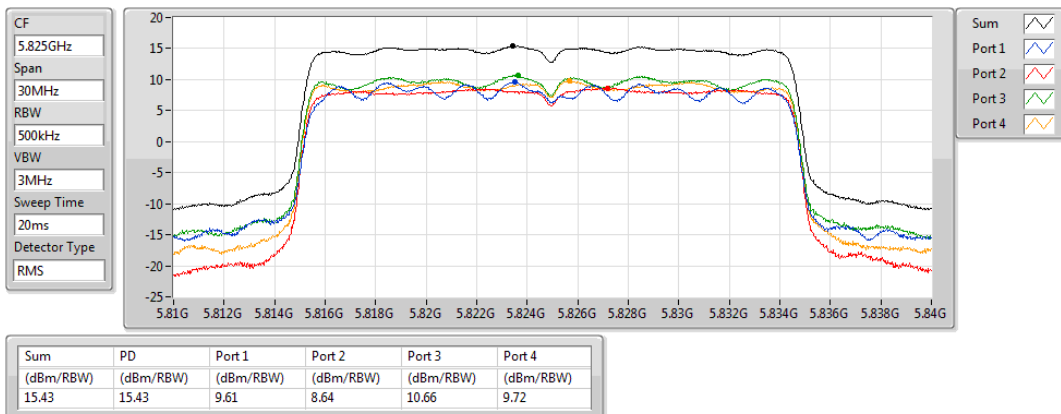


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

09/11/2019

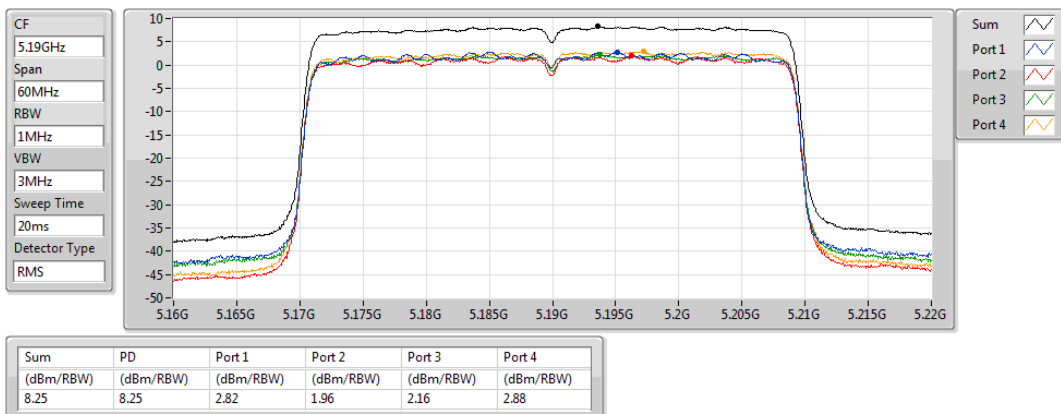


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

09/11/2019

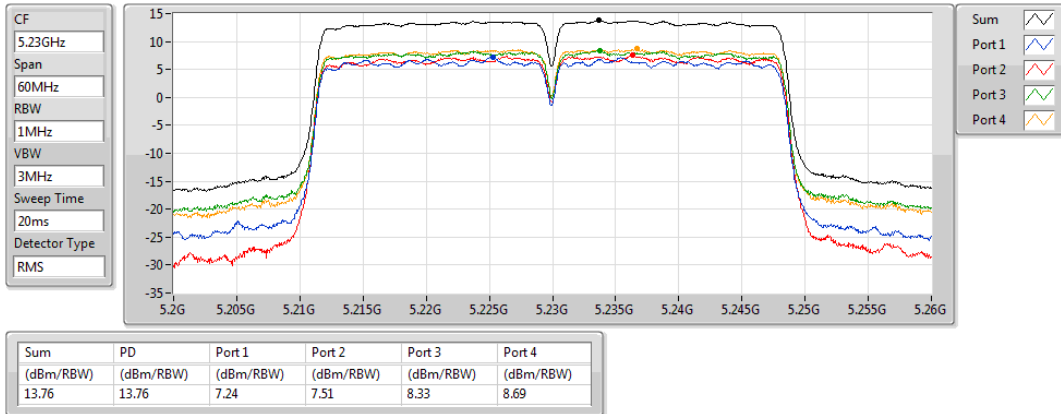


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

09/11/2019

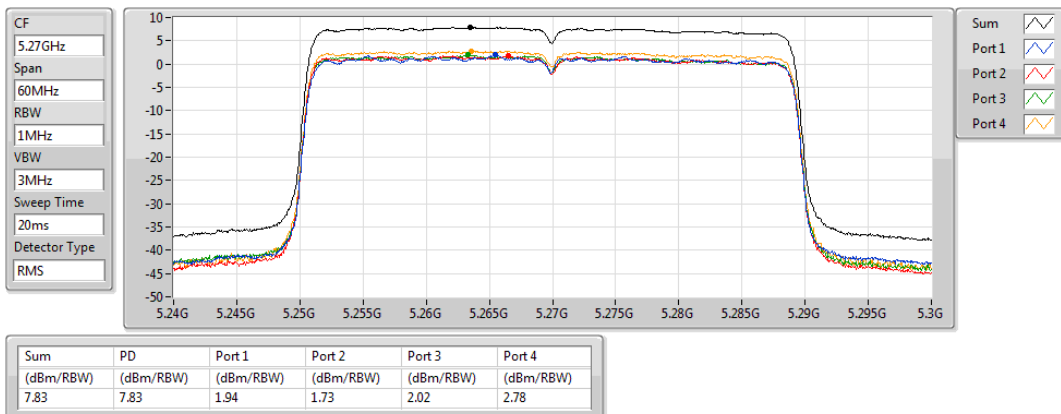


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5270MHz

09/11/2019

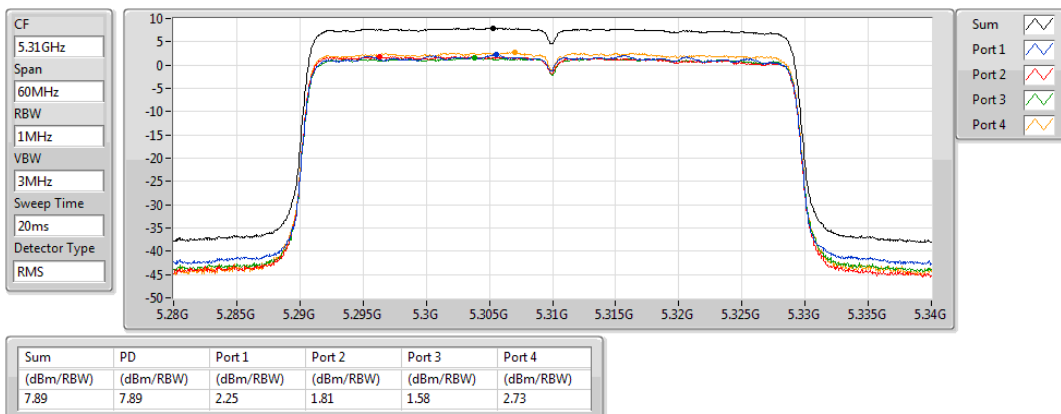


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5310MHz

09/11/2019

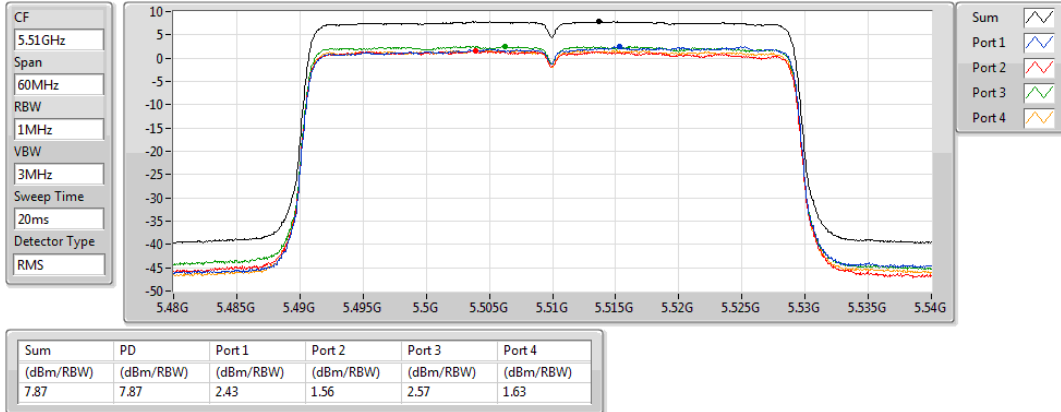


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5510MHz

09/11/2019

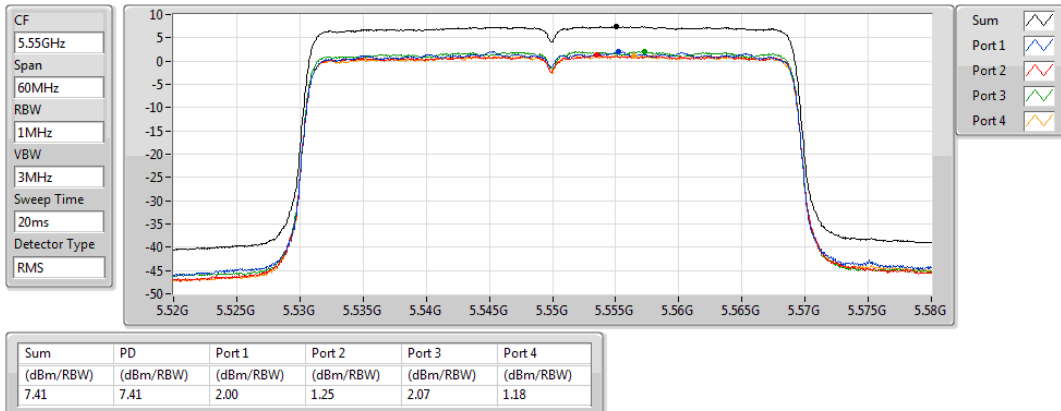


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5550MHz

09/11/2019

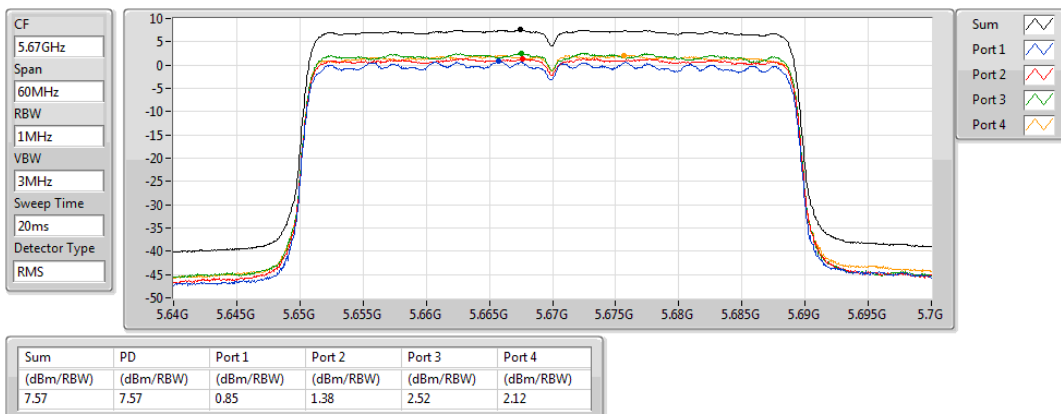


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

09/11/2019

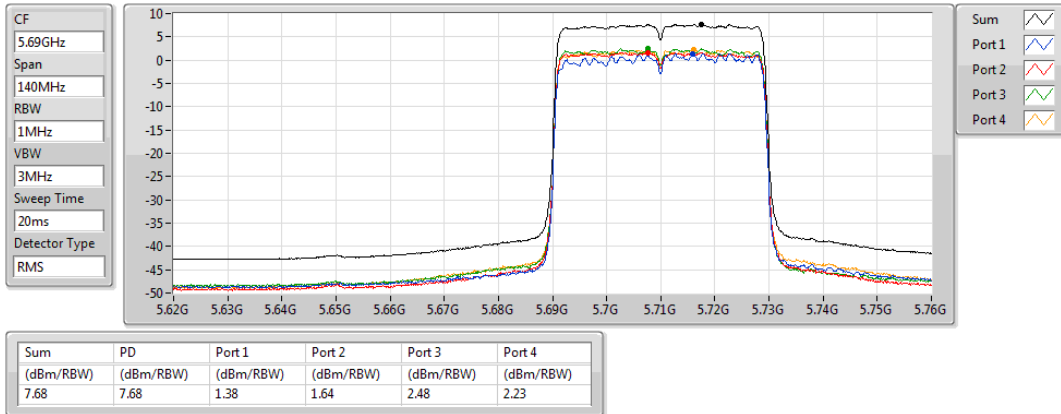


802.11ax HEW40_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz

PSD

09/11/2019

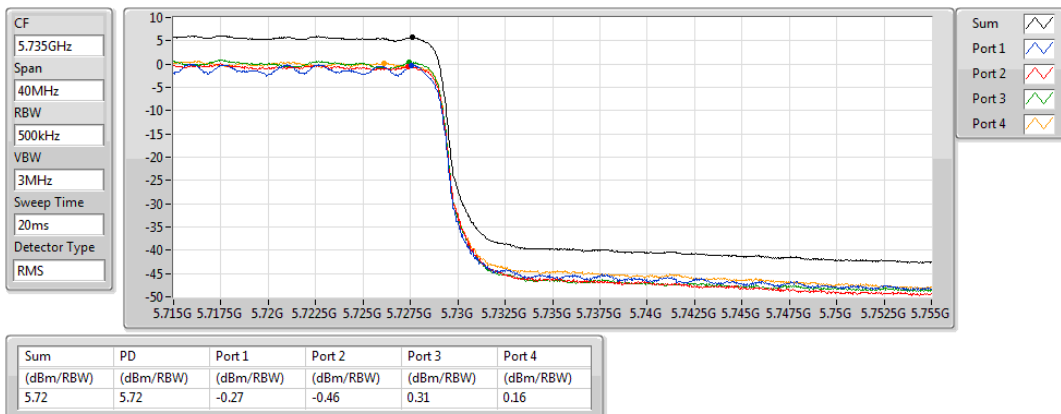


802.11ax HEW40_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

09/11/2019

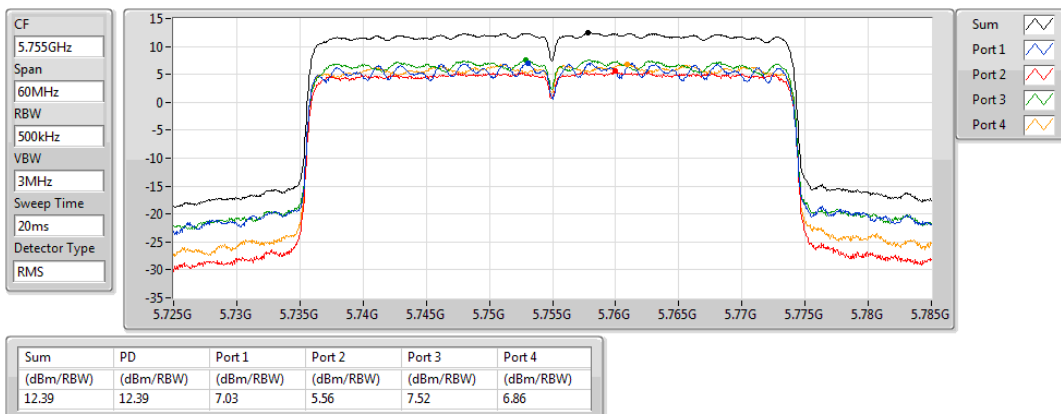


802.11ax HEW40_Nss1,(MCS0)_4TX

5755MHz

PSD

09/11/2019

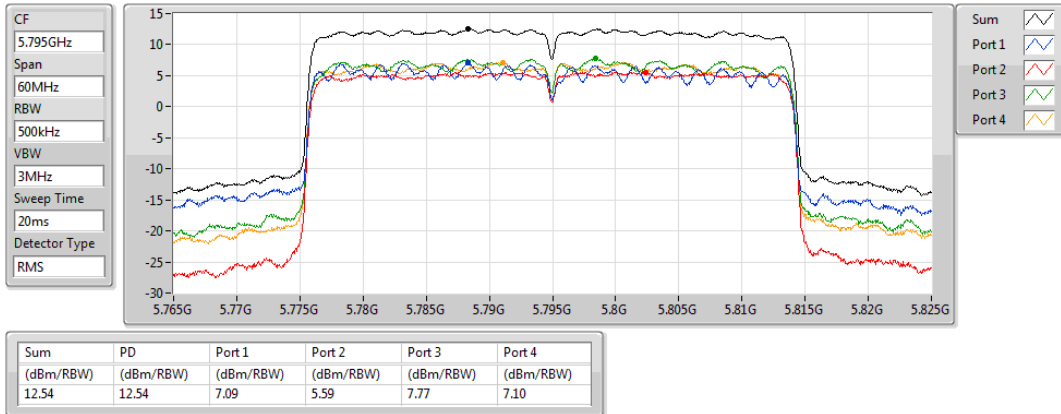


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

09/11/2019

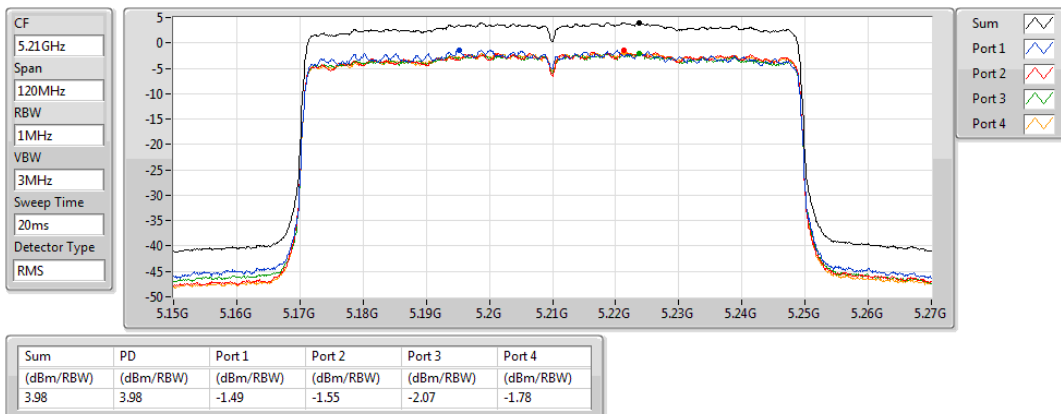


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

09/11/2019

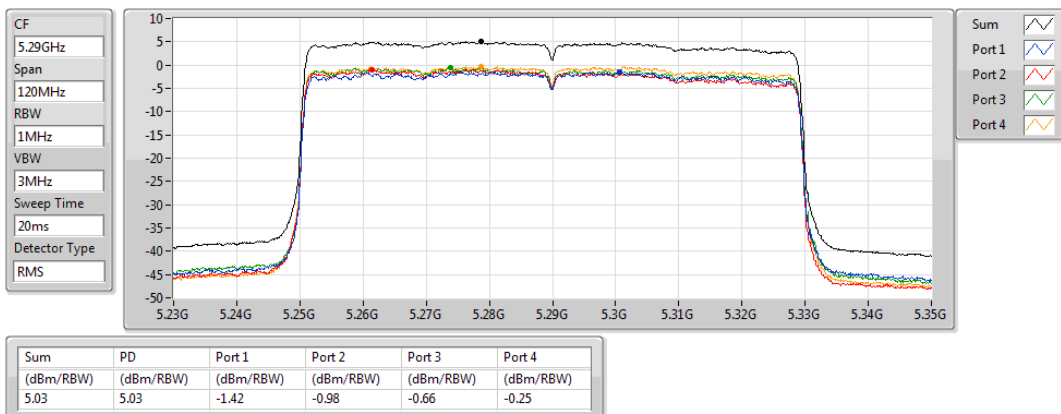


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5290MHz

09/11/2019

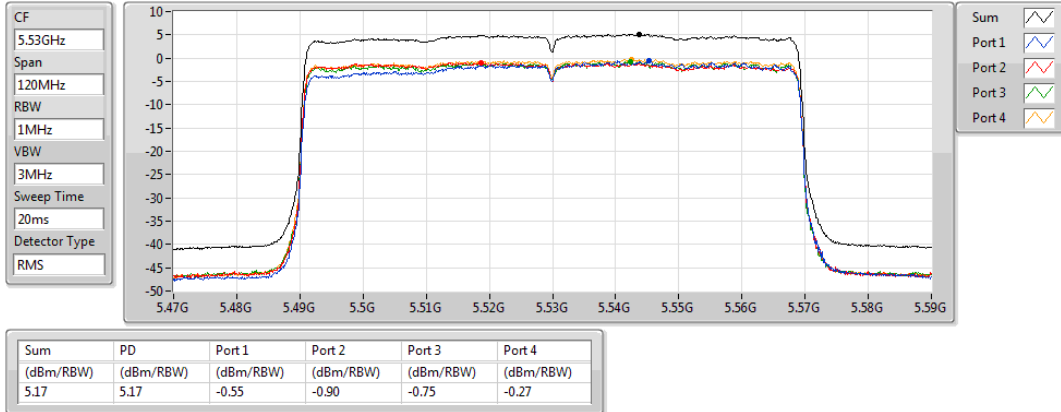


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5530MHz

09/11/2019

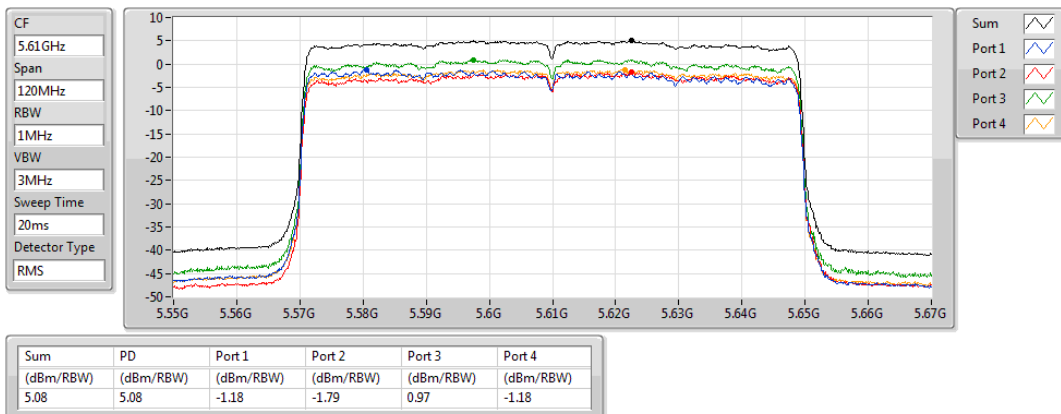


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5610MHz

09/11/2019

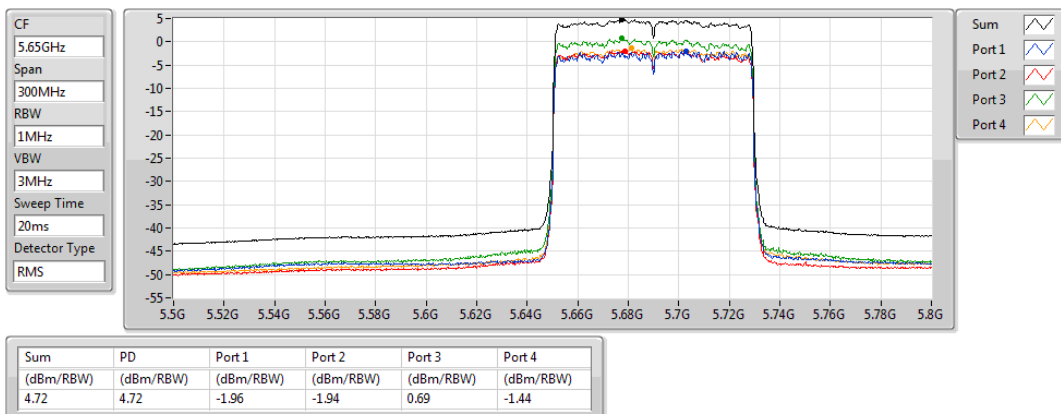


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

09/11/2019

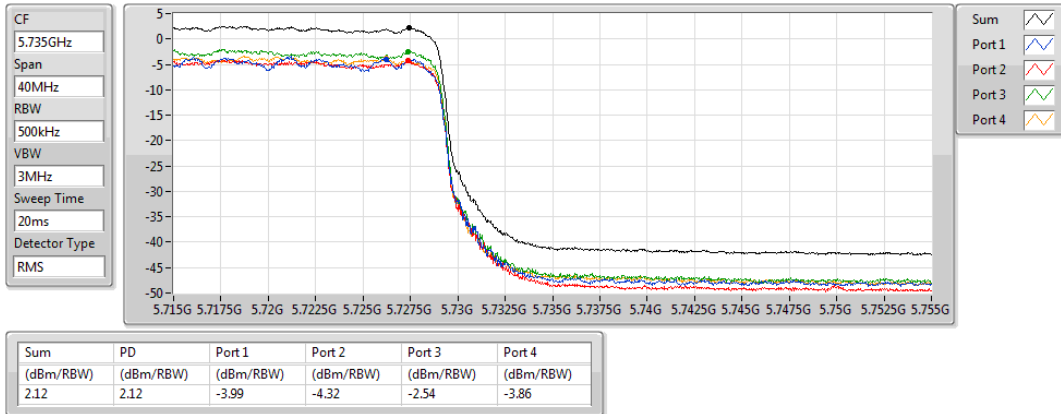


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

09/11/2019

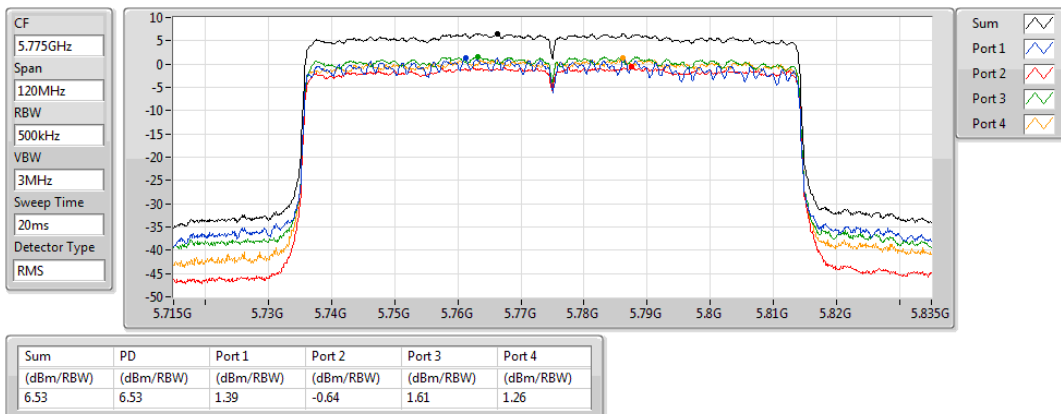


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz

09/11/2019

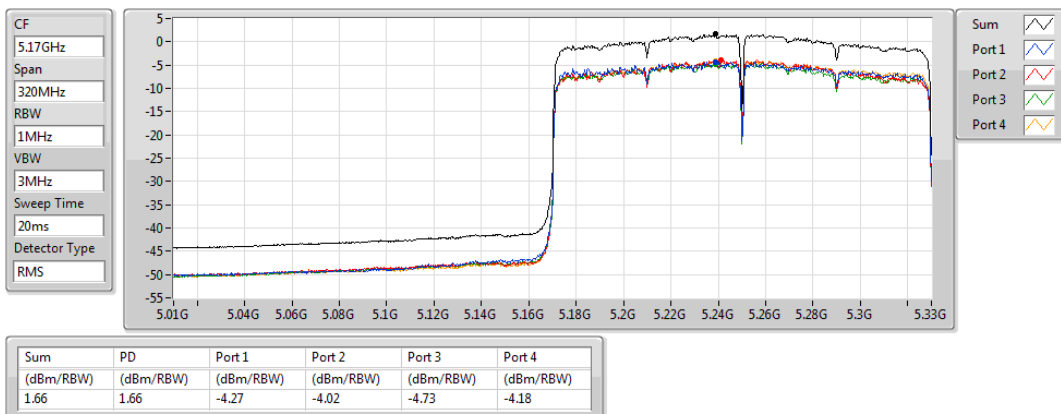


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

09/11/2019

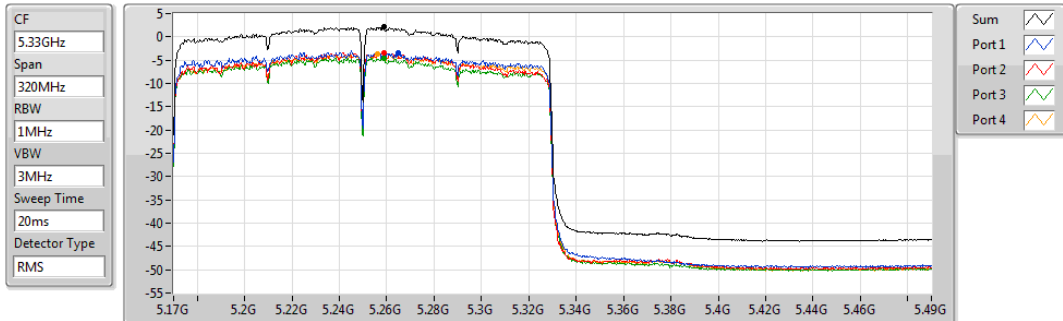


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

09/11/2019



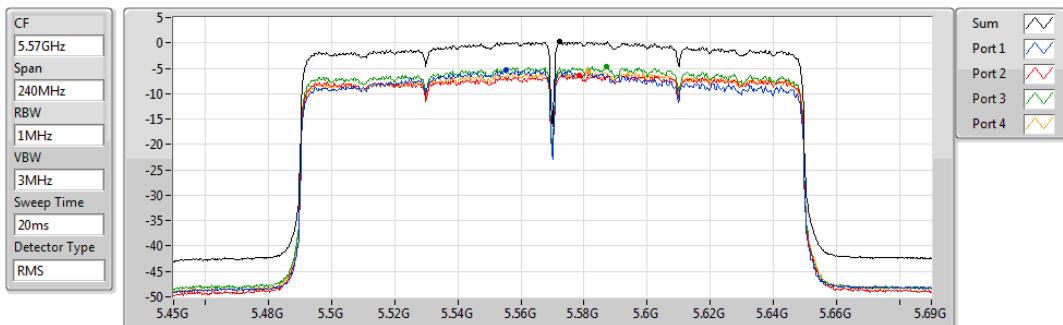
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.08	2.08	-3.41	-3.45	-4.60	-3.77

802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5570MHz

09/11/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.21	0.21	-5.29	-6.29	-4.69	-5.82



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	15.50
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	11.86
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	4.16
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	1.74
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.52
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.34
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.27
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.06
5.25-5.35GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	9.99
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	7.29
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.98
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	1.40
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.39
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.36
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.66
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.19
5.47-5.725GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	9.44
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	6.86
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	4.16
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	0.25
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.56
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.81
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.74
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-0.17
5.725-5.85GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	14.27
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	11.05
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	5.81
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.48
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.77

RBW = 500 kHz 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)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.83	7.36	5.78	7.85	7.02	12.88	16.17
5200MHz	Pass	6.83	10.14	8.69	10.48	9.14	15.50	16.17
5240MHz	Pass	6.83	10.27	8.46	10.69	8.96	15.44	16.17
5260MHz	Pass	6.83	5.01	3.62	4.53	3.55	9.95	10.17
5300MHz	Pass	6.83	4.86	3.16	4.90	3.71	9.99	10.17
5320MHz	Pass	6.83	5.03	3.27	4.34	3.61	9.88	10.17
5500MHz	Pass	7.15	2.63	4.19	3.58	3.09	9.31	9.85
5580MHz	Pass	7.15	2.96	3.37	4.12	3.27	9.24	9.85
5700MHz	Pass	7.15	3.55	3.45	4.61	2.01	9.32	9.85
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	3.53	3.47	4.84	2.41	9.44	9.85
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	2.21	1.52	3.04	0.64	7.71	28.85
5745MHz	Pass	7.15	8.99	7.47	9.04	8.07	14.10	28.85
5785MHz	Pass	7.15	8.99	7.68	8.88	8.00	14.02	28.85
5825MHz	Pass	7.15	9.42	7.76	9.02	7.92	14.27	28.85
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.83	2.53	1.50	2.80	2.42	8.03	16.17
5230MHz	Pass	6.83	6.41	5.42	6.76	5.54	11.86	16.17
5270MHz	Pass	6.83	2.28	0.82	1.87	1.00	7.29	10.17
5310MHz	Pass	6.83	2.01	0.38	1.54	1.28	7.10	10.17
5510MHz	Pass	7.15	-1.63	-1.25	-0.81	-2.23	4.42	9.85
5550MHz	Pass	7.15	0.59	0.53	0.80	-0.41	6.16	9.85
5670MHz	Pass	7.15	0.30	0.53	0.72	0.69	6.29	9.85
5710MHz Straddle 5.47-5.725GHz	Pass	7.15	0.91	1.24	1.39	0.94	6.86	9.85
5710MHz Straddle 5.725-5.85GHz	Pass	7.15	-0.85	-1.10	-0.72	-0.92	4.78	28.85
5755MHz	Pass	7.15	6.21	4.31	5.95	5.23	11.05	28.85
5795MHz	Pass	7.15	5.52	4.10	5.75	4.87	10.84	28.85
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.83	-1.61	-1.28	-1.49	-1.45	4.16	16.17
5290MHz	Pass	6.83	-1.22	-2.47	-1.83	-2.17	3.98	10.17
5530MHz	Pass	7.15	-2.61	-2.47	-1.77	-1.80	3.68	9.85
5610MHz	Pass	7.15	-2.18	-2.49	-0.31	-1.78	4.16	9.85
5690MHz Straddle 5.47-5.725GHz	Pass	7.15	-2.44	-2.71	-0.54	-2.72	3.82	9.85
5690MHz Straddle 5.725-5.85GHz	Pass	7.15	-4.99	-5.46	-3.41	-5.60	1.08	28.85
5775MHz	Pass	7.15	0.32	-0.66	0.59	0.27	5.81	28.85
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.83	-4.17	-3.55	-4.26	-3.98	1.74	16.17
5250MHz Straddle 5.25-5.35GHz	Pass	6.83	-3.92	-4.55	-4.86	-4.30	1.40	10.17
5570MHz	Pass	7.15	-6.03	-5.87	-4.36	-6.34	0.25	9.85
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.83	8.07	6.63	8.06	7.57	13.36	16.17
5200MHz	Pass	6.83	10.12	8.99	10.39	9.34	15.52	16.17
5240MHz	Pass	6.83	9.95	8.78	10.60	8.88	15.33	16.17
5260MHz	Pass	6.83	4.34	3.28	3.58	3.00	9.30	10.17

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)
5300MHz	Pass	6.83	4.44	3.20	3.42	3.34	9.39	10.17
5320MHz	Pass	6.83	4.49	2.90	3.52	3.09	9.30	10.17
5500MHz	Pass	7.15	2.87	3.54	3.79	3.39	9.30	9.85
5580MHz	Pass	7.15	3.09	3.53	4.00	3.29	9.33	9.85
5700MHz	Pass	7.15	3.30	3.94	4.84	2.52	9.56	9.85
5720MHz Straddle 5.47-5.725GHz	Pass	7.15	3.60	3.44	4.90	2.35	9.48	9.85
5720MHz Straddle 5.725-5.85GHz	Pass	7.15	2.24	2.31	2.52	0.39	7.65	28.85
5745MHz	Pass	7.15	8.78	7.20	9.09	8.05	14.02	28.85
5785MHz	Pass	7.15	9.38	7.57	8.71	8.24	14.19	28.85
5825MHz	Pass	7.15	9.41	7.74	9.34	8.03	14.48	28.85
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.83	1.64	0.70	2.11	1.85	7.35	16.17
5230MHz	Pass	6.83	7.15	6.23	7.01	6.06	12.34	16.17
5270MHz	Pass	6.83	1.14	-0.23	0.66	0.23	6.25	10.17
5310MHz	Pass	6.83	1.41	-0.89	0.89	0.66	6.36	10.17
5510MHz	Pass	7.15	-1.88	-1.29	-1.27	-2.34	4.17	9.85
5550MHz	Pass	7.15	0.56	0.80	0.83	-0.51	6.18	9.85
5670MHz	Pass	7.15	0.22	0.23	0.98	0.61	6.25	9.85
5710MHz Straddle 5.47-5.725GHz	Pass	7.15	0.95	0.94	1.50	0.77	6.81	9.85
5710MHz Straddle 5.725-5.85GHz	Pass	7.15	-0.64	-0.82	-0.36	-0.89	5.03	28.85
5755MHz	Pass	7.15	4.43	4.11	5.53	4.74	10.32	28.85
5795MHz	Pass	7.15	6.48	4.17	6.04	5.24	11.24	28.85
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.83	-0.42	-0.36	-0.44	-0.10	5.27	16.17
5290MHz	Pass	6.83	-1.64	-2.90	-1.72	-2.57	3.66	10.17
5530MHz	Pass	7.15	-2.66	-2.57	-1.66	-1.79	3.65	9.85
5610MHz	Pass	7.15	-2.64	-2.17	-1.02	-2.42	3.74	9.85
5690MHz Straddle 5.47-5.725GHz	Pass	7.15	-2.76	-2.33	-1.06	-3.02	3.54	9.85
5690MHz Straddle 5.725-5.85GHz	Pass	7.15	-4.87	-4.67	-3.26	-5.11	1.32	28.85
5775MHz	Pass	7.15	0.72	-1.37	0.45	0.56	5.77	28.85
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.83	-4.98	-4.36	-5.25	-4.71	1.06	16.17
5250MHz Straddle 5.25-5.35GHz	Pass	6.83	-4.29	-4.52	-4.89	-4.71	1.19	10.17
5570MHz	Pass	7.15	-5.92	-6.82	-4.85	-6.44	-0.17	9.85

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

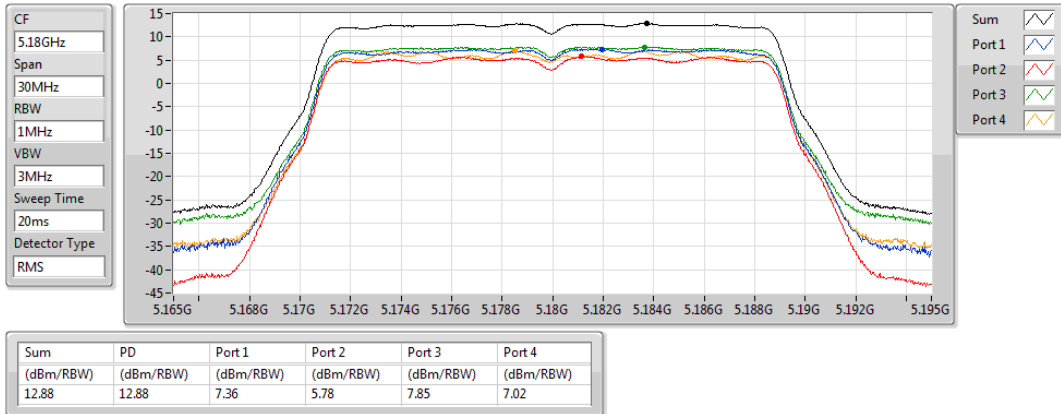
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5180MHz

PSD

26/10/2019

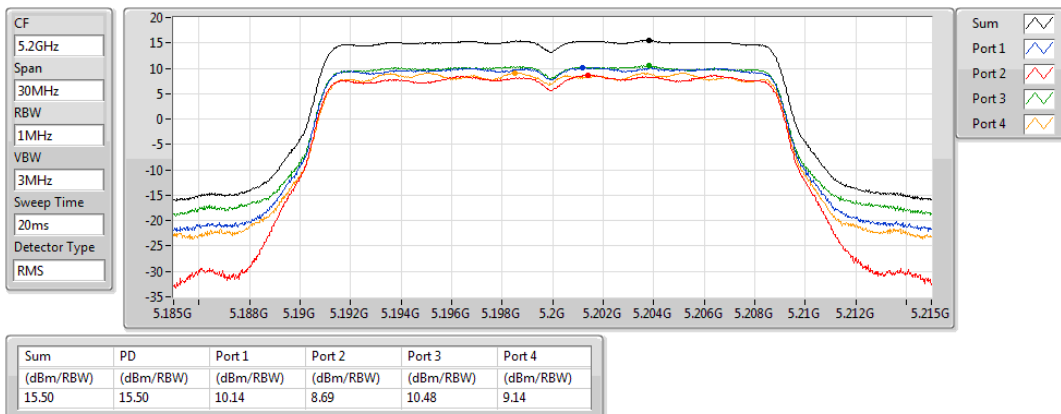


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5200MHz

PSD

26/10/2019

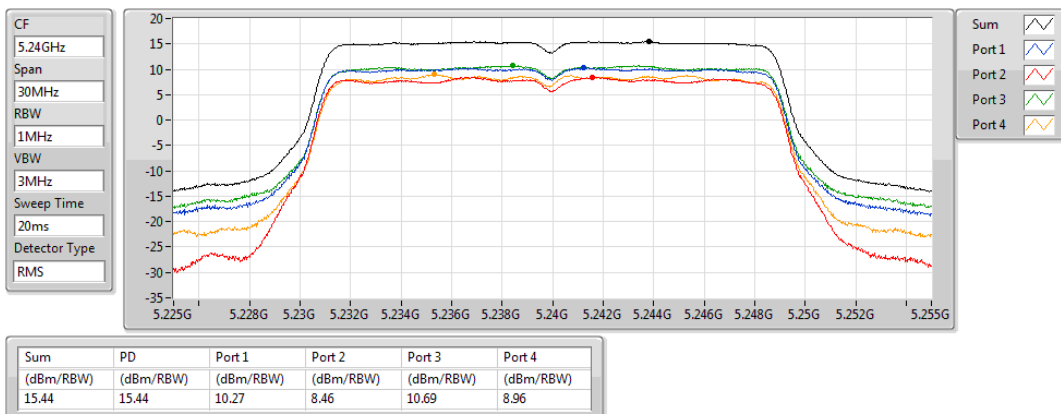


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5240MHz

PSD

26/10/2019

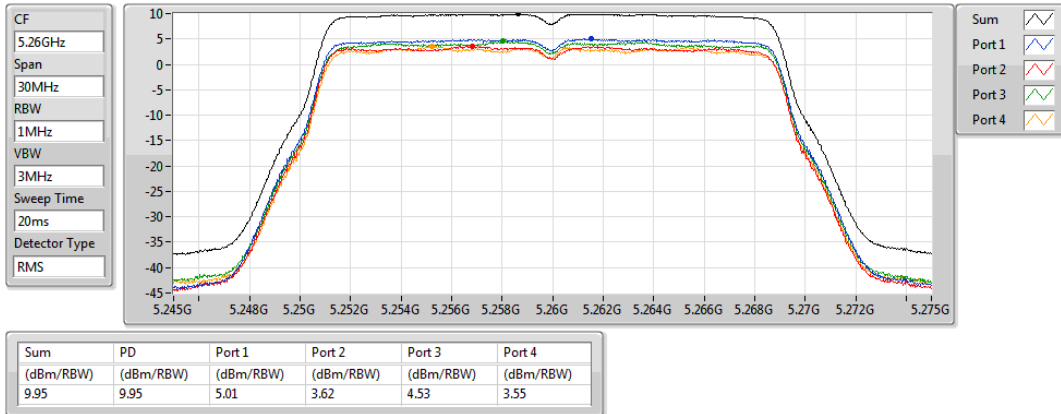


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

29/10/2019

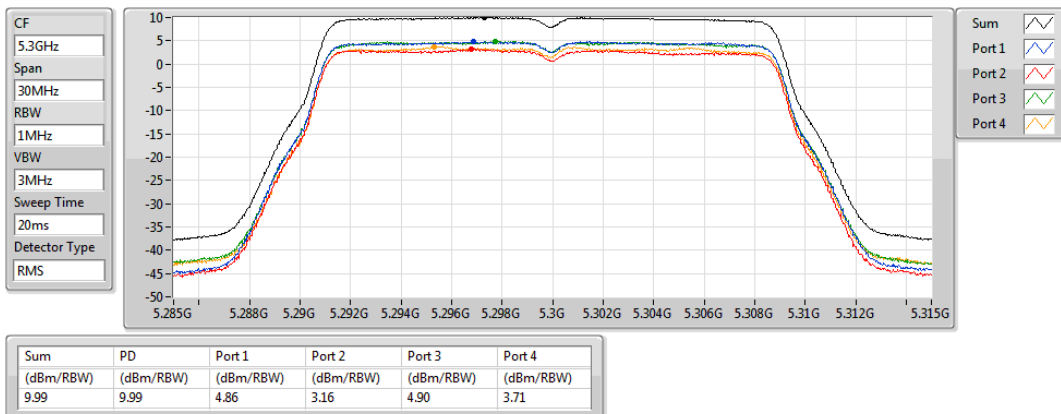


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

29/10/2019

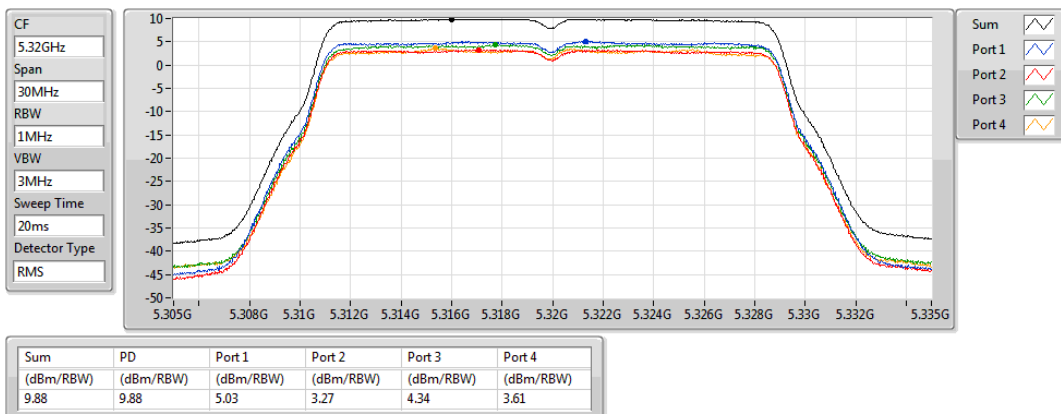


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

29/10/2019

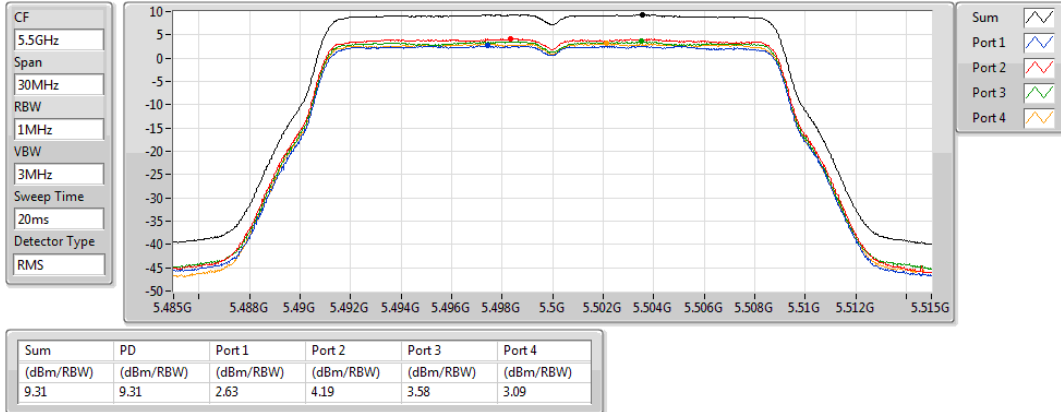


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

26/10/2019

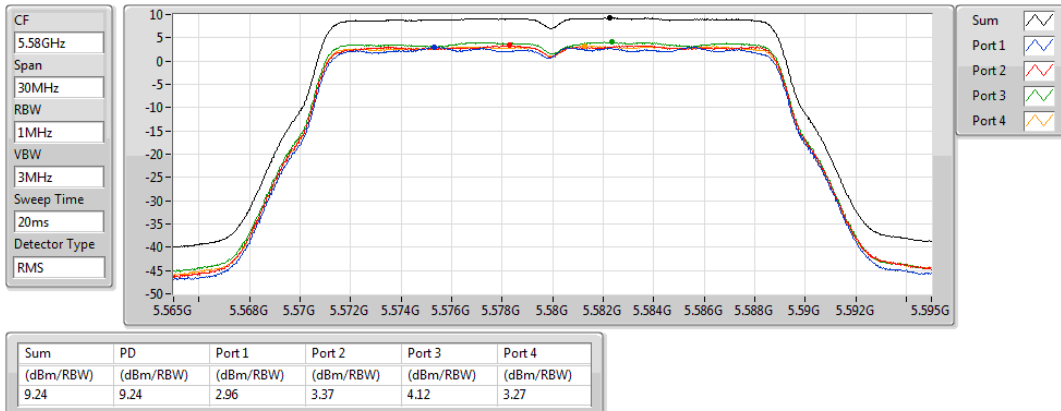


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

26/10/2019

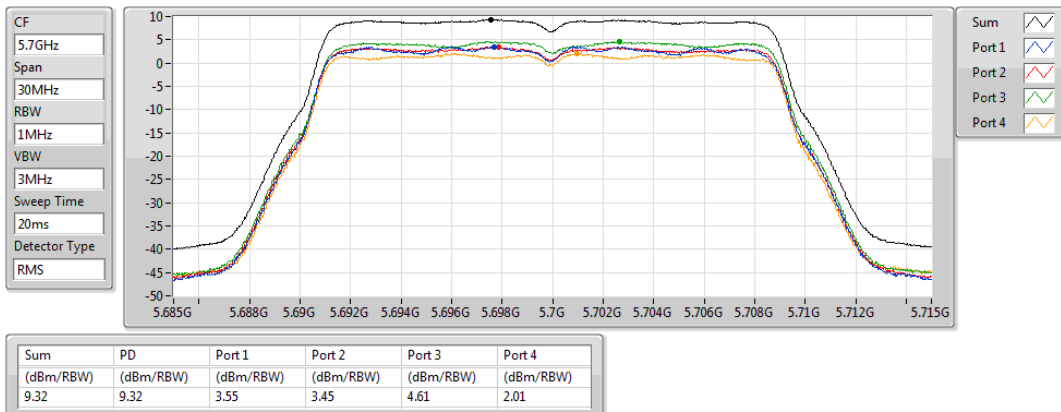


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

26/10/2019

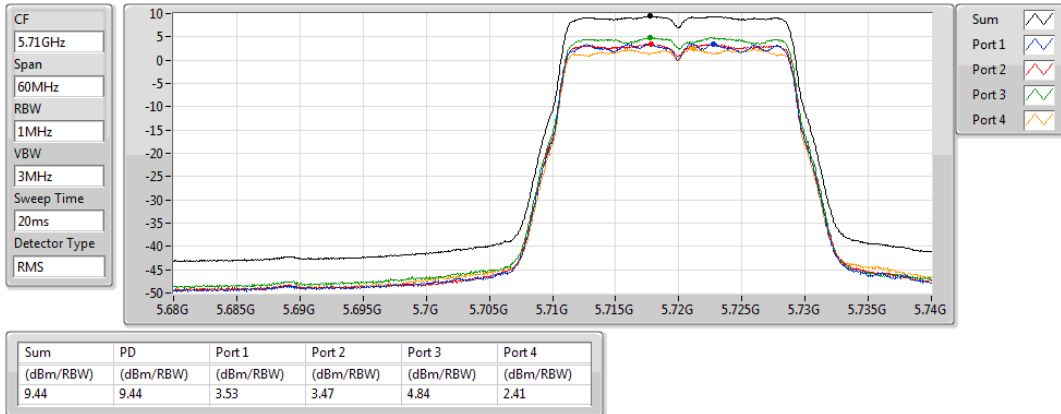


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

26/10/2019

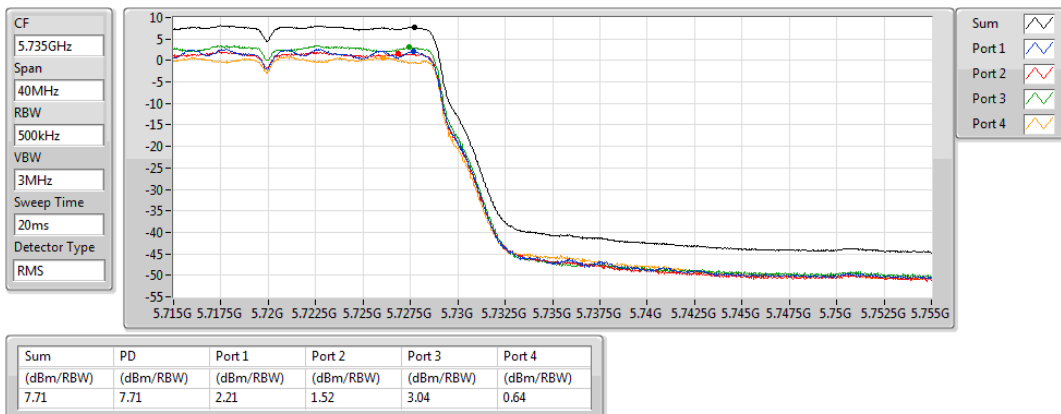


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

26/10/2019

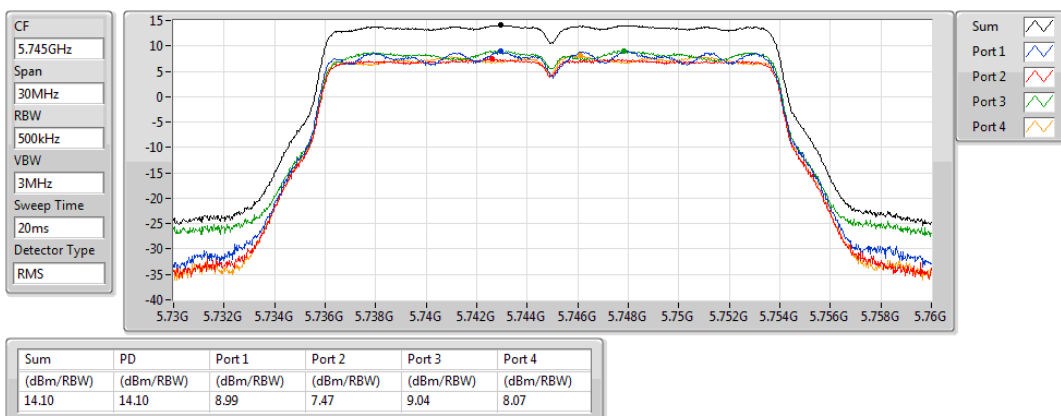


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5745MHz

PSD

26/10/2019

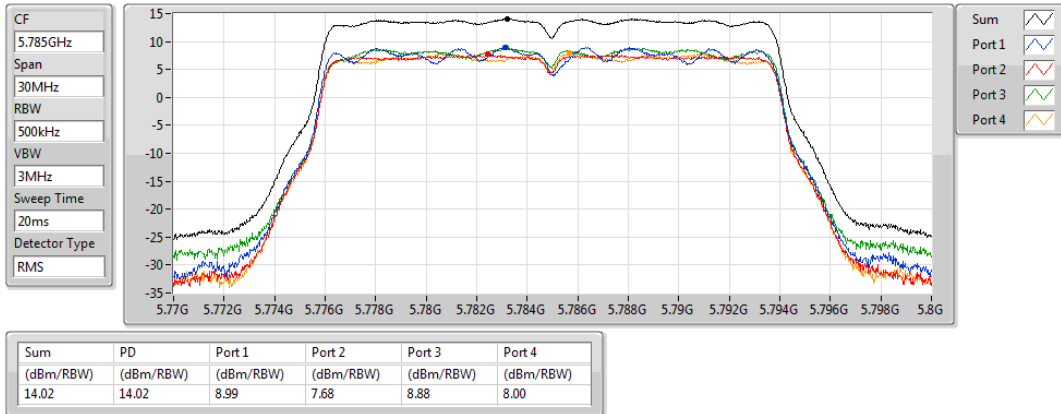


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

26/10/2019

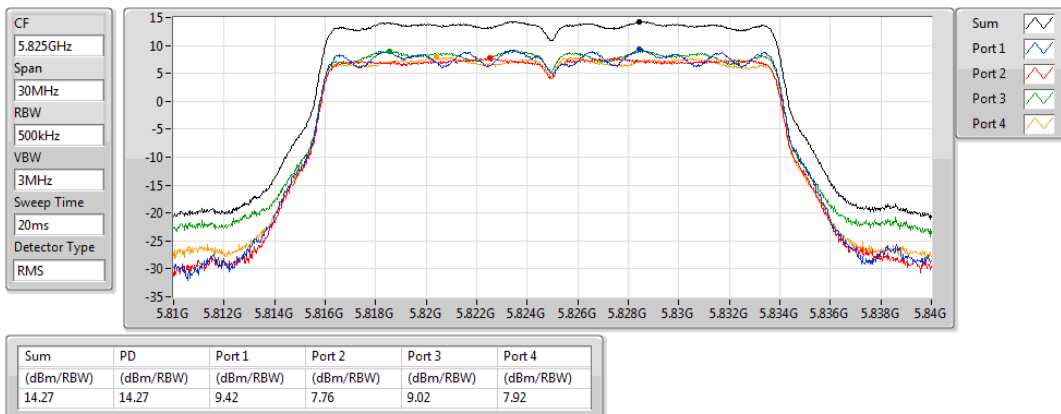


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

26/10/2019

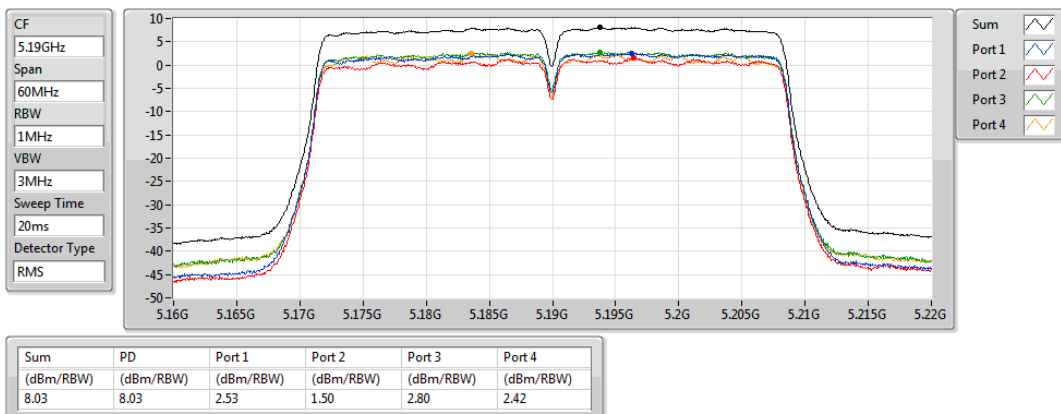


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

29/10/2019

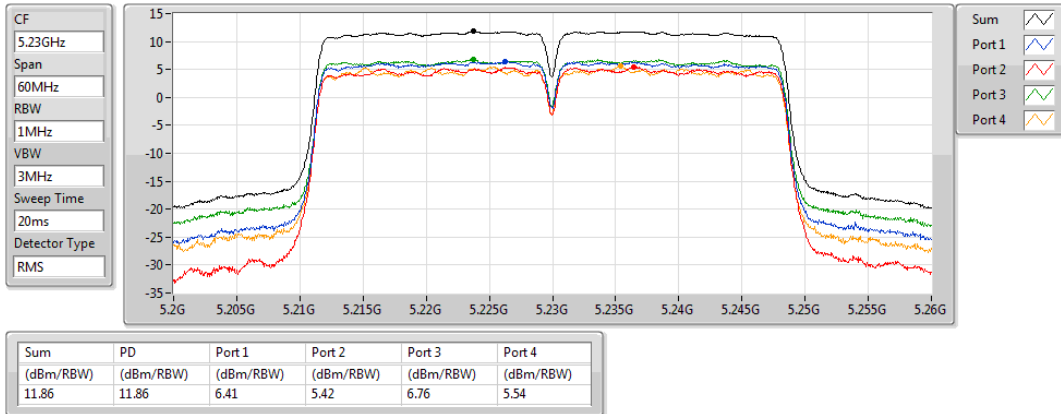


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

26/10/2019

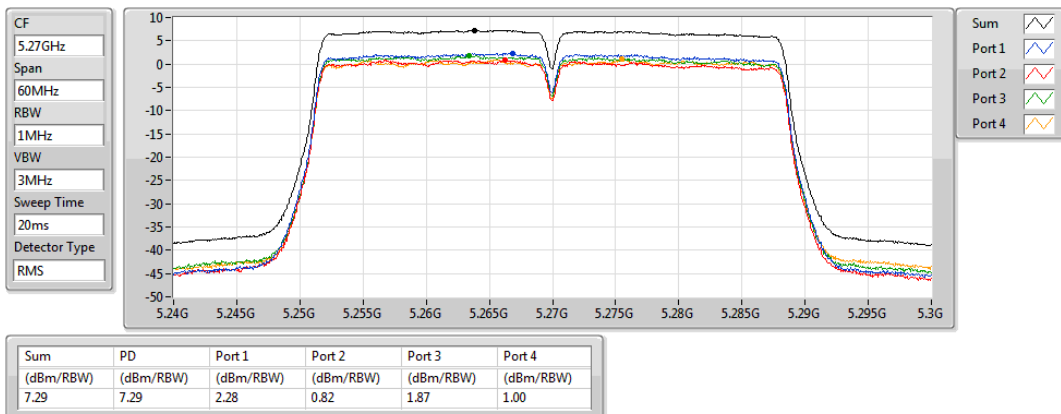


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

29/10/2019

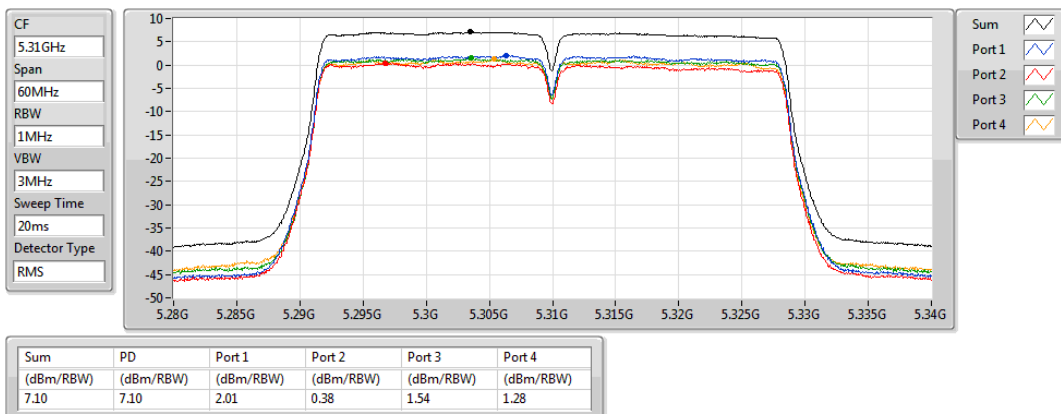


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

29/10/2019

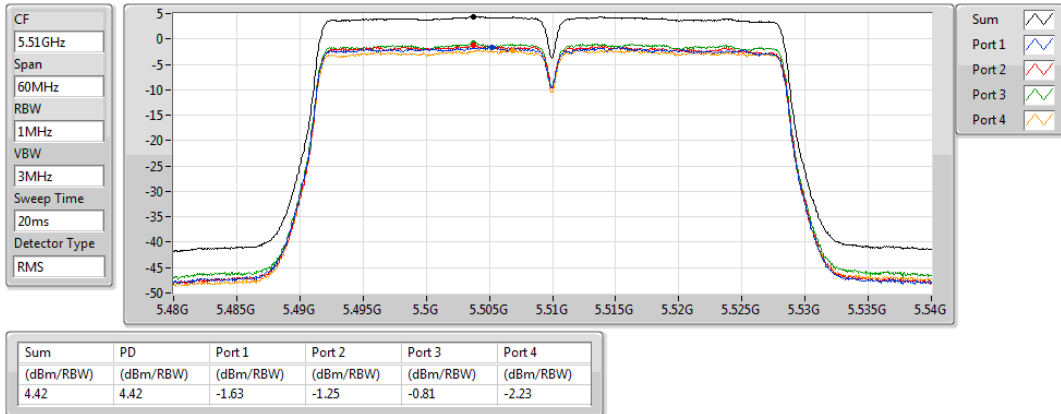


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

26/10/2019

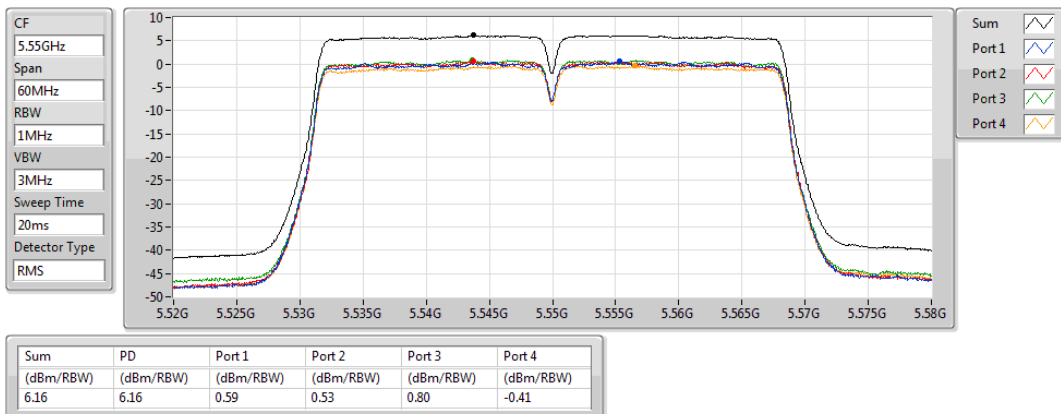


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

26/10/2019

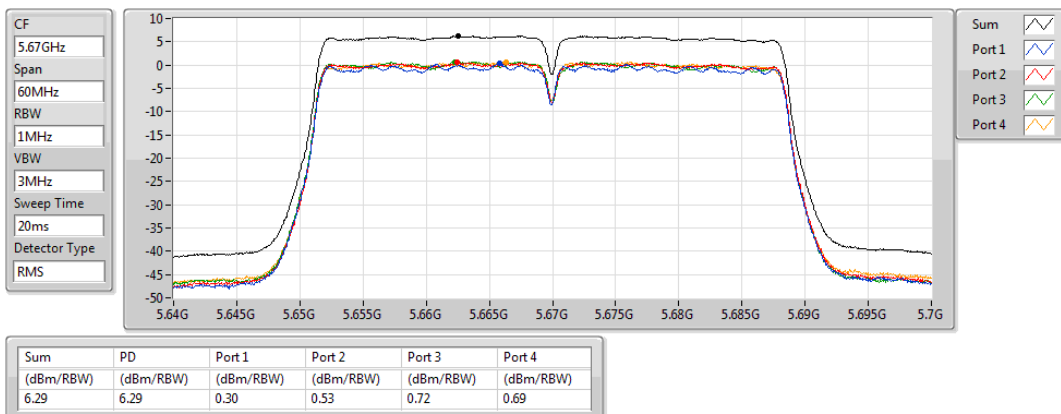


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

26/10/2019

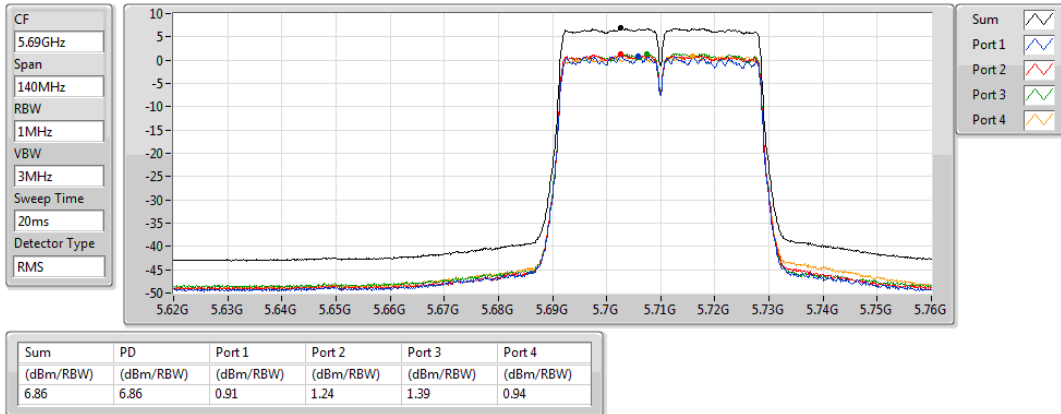


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz

PSD

26/10/2019

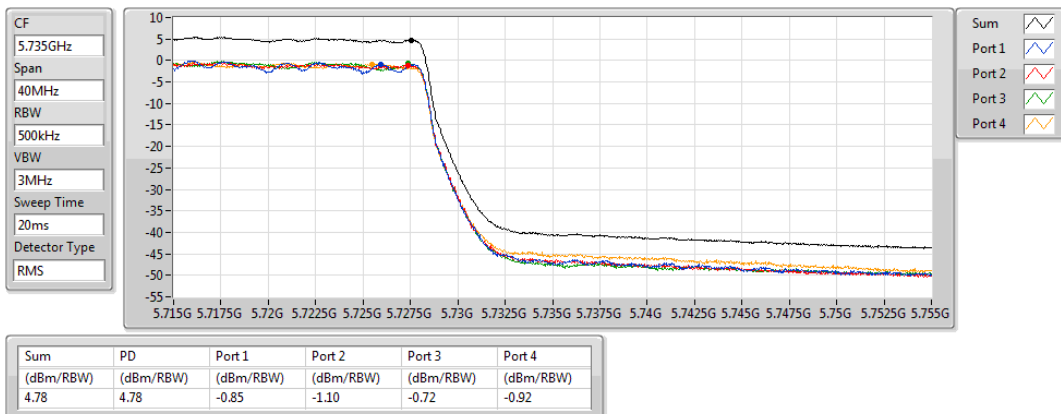


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

26/10/2019

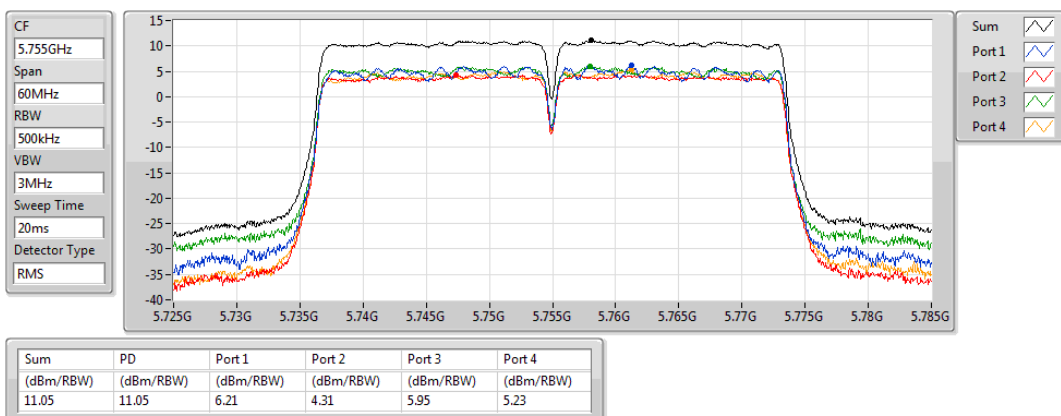


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5755MHz

PSD

26/10/2019

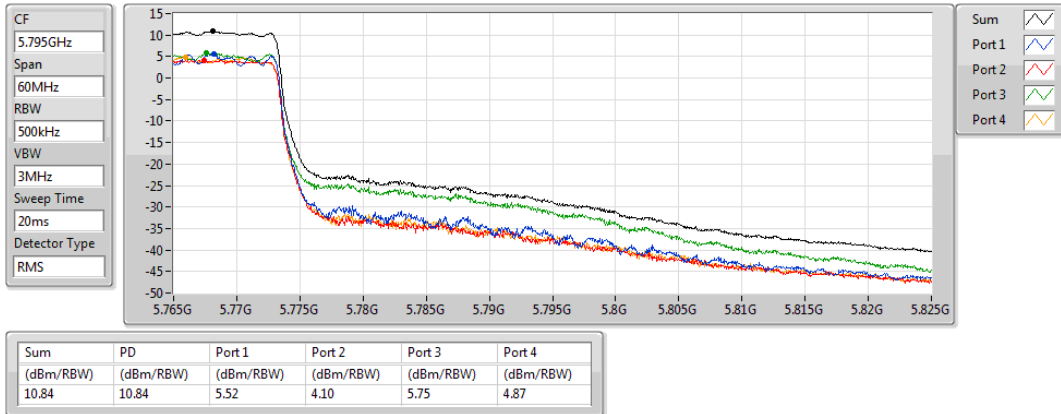


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

26/10/2019

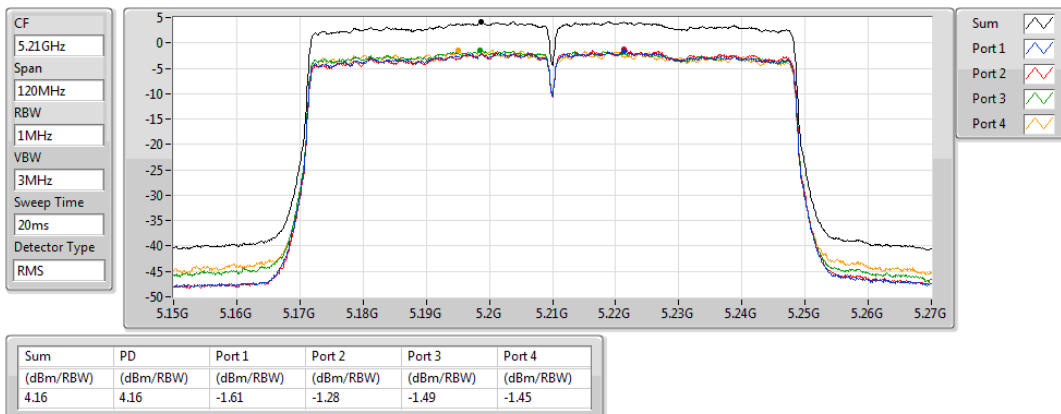


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

26/10/2019

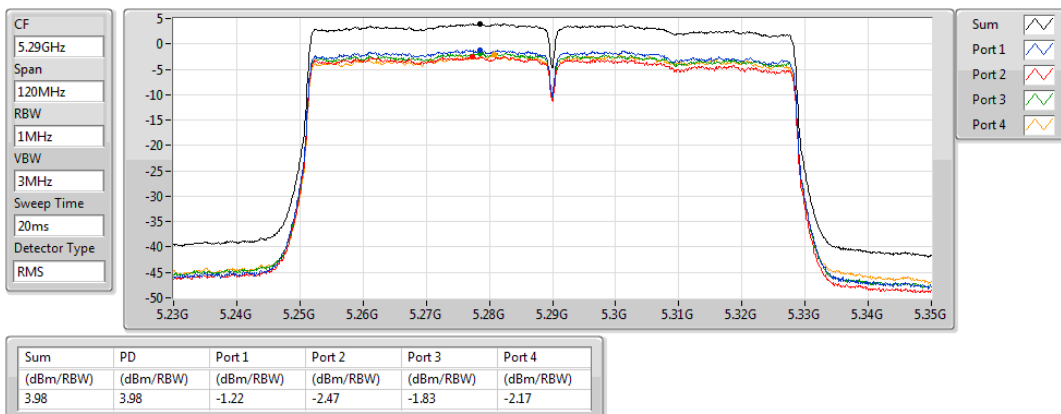


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

26/10/2019

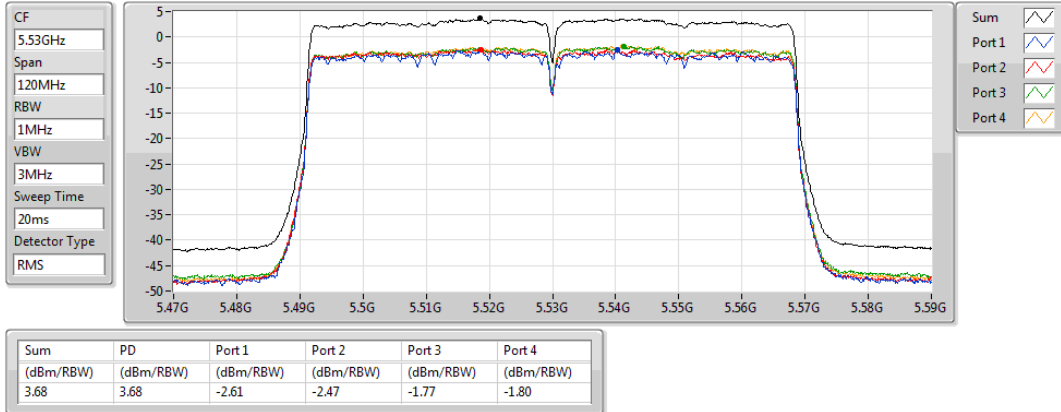


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

26/10/2019

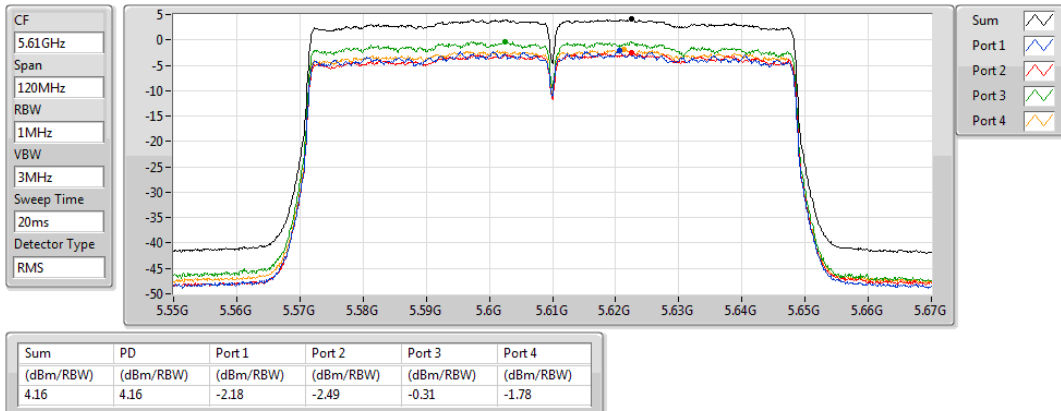


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

26/10/2019

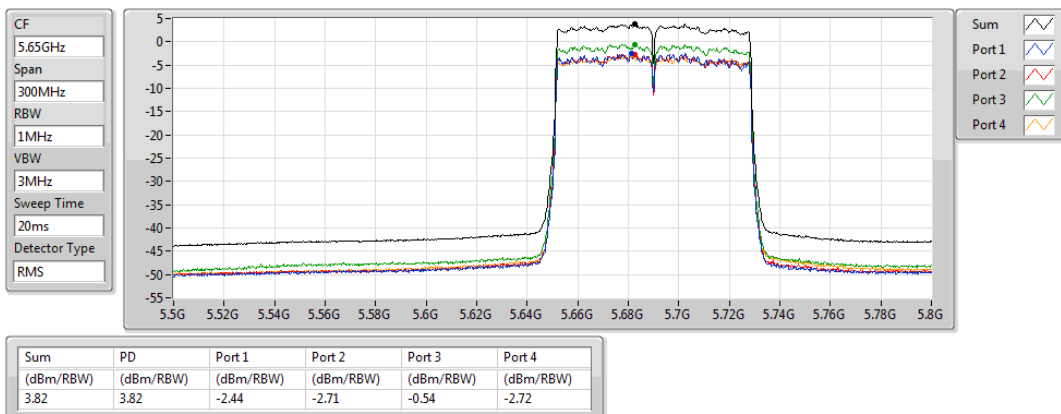


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

26/10/2019

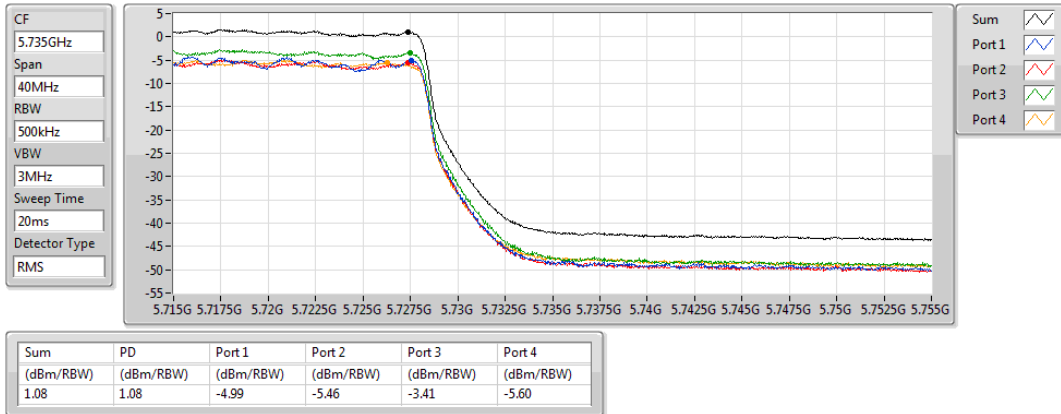


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

26/10/2019

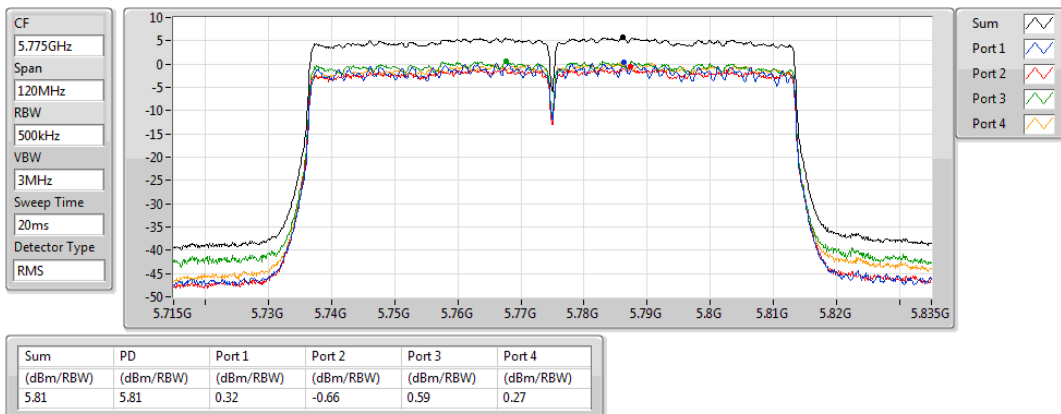


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

26/10/2019

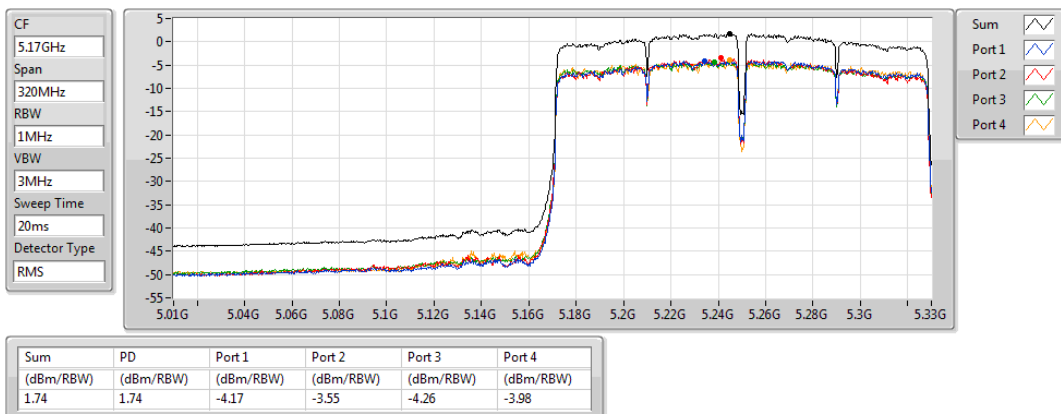


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

26/10/2019

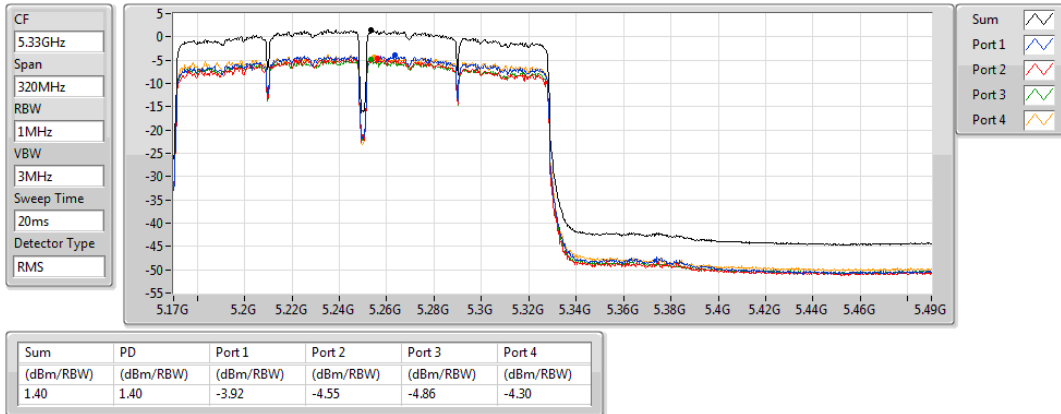


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

26/10/2019

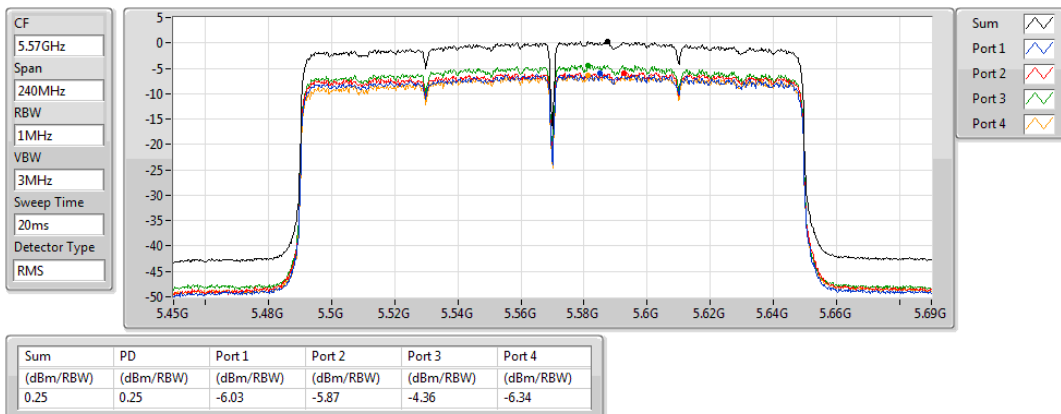


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

PSD

5570MHz

26/10/2019

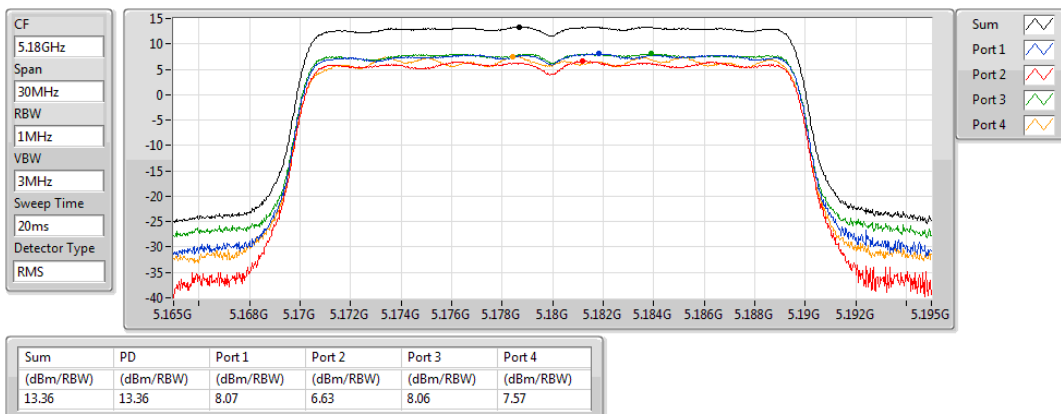


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5180MHz

26/10/2019

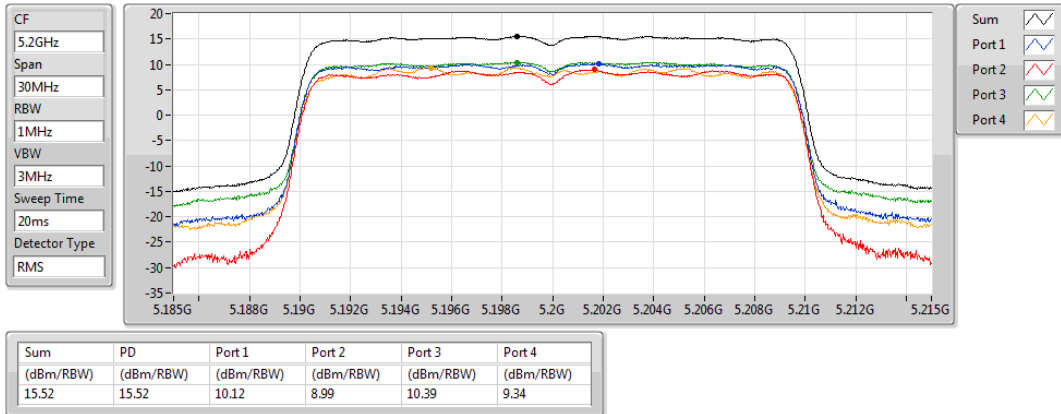


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5200MHz

26/10/2019

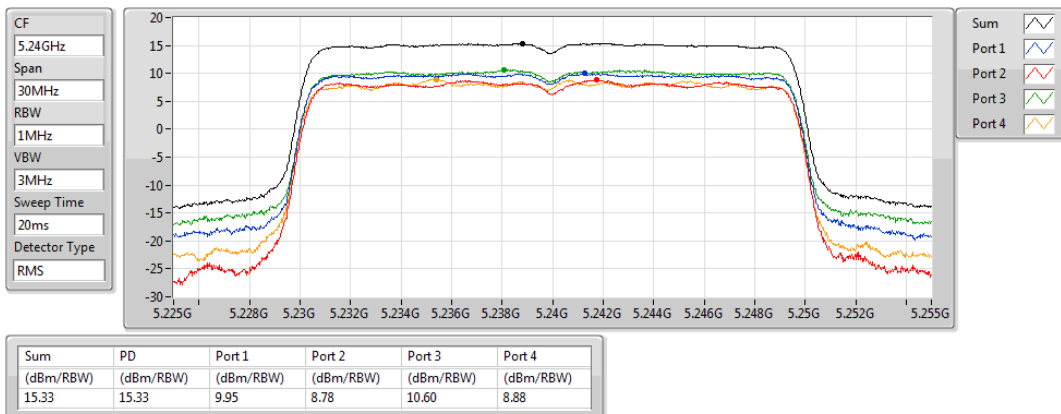


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5240MHz

26/10/2019

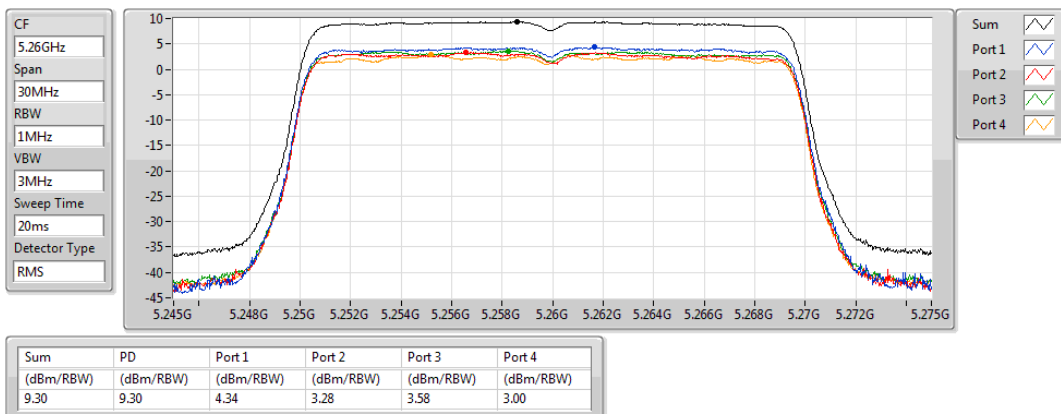


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

26/10/2019

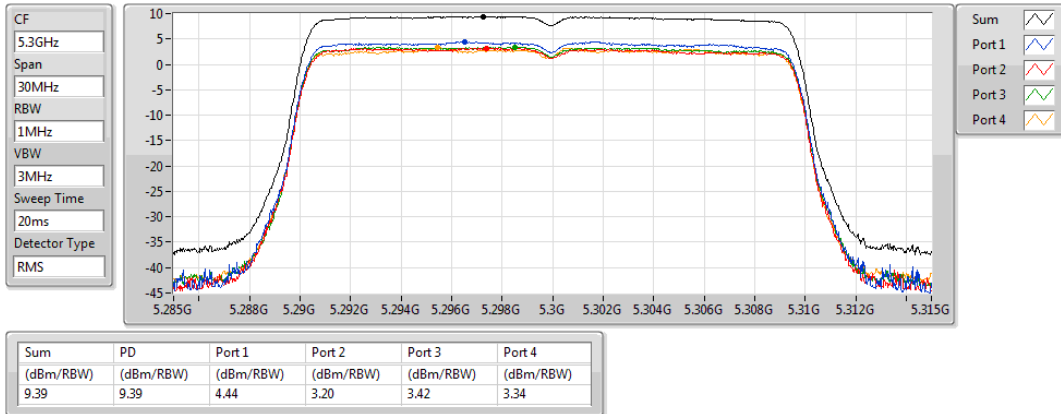


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

26/10/2019

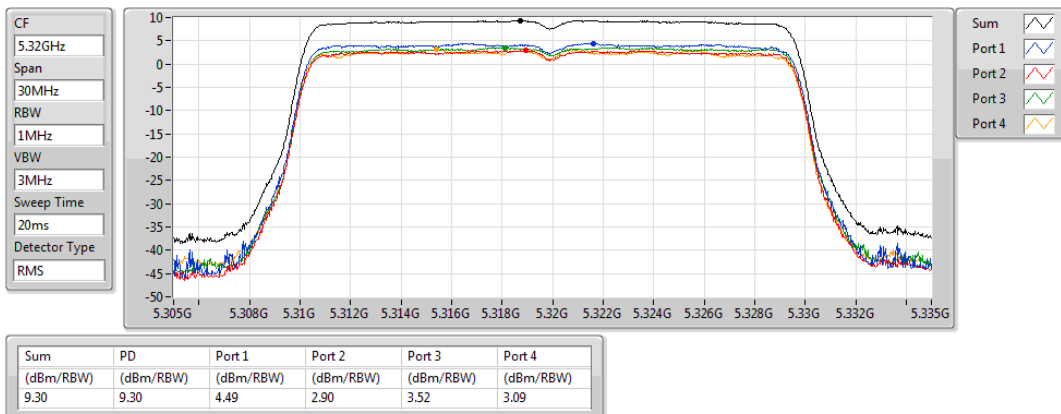


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

26/10/2019

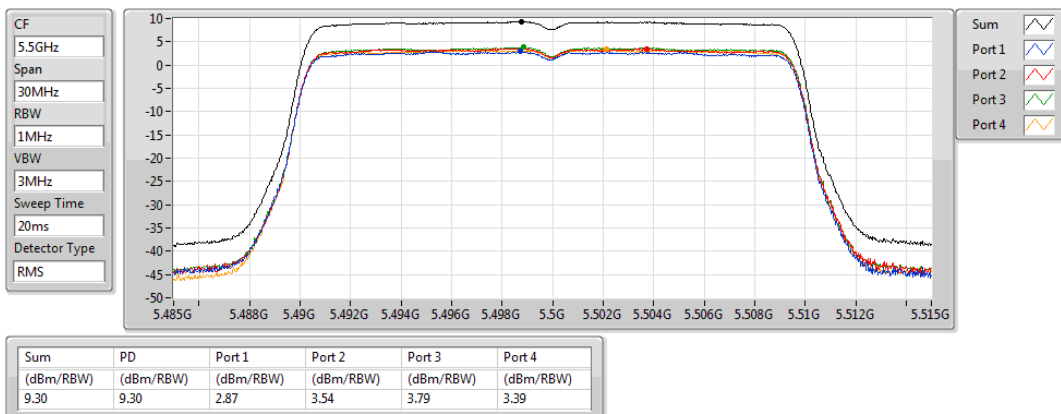


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

26/10/2019

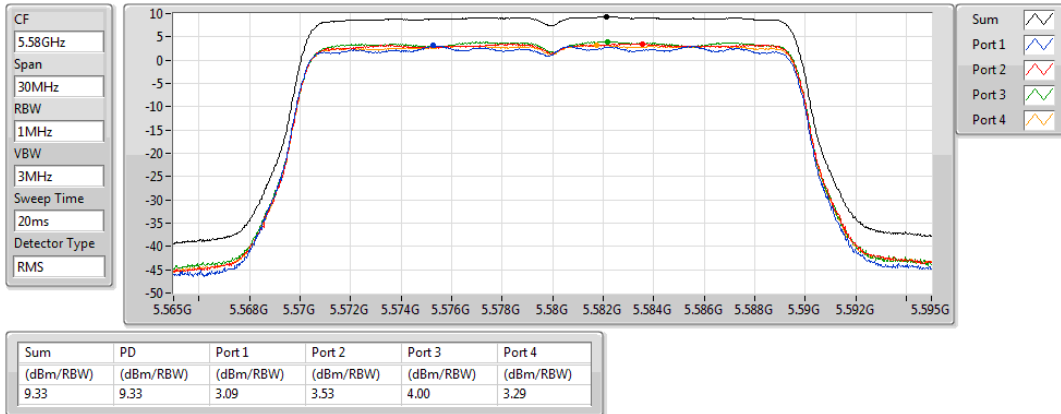


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

26/10/2019

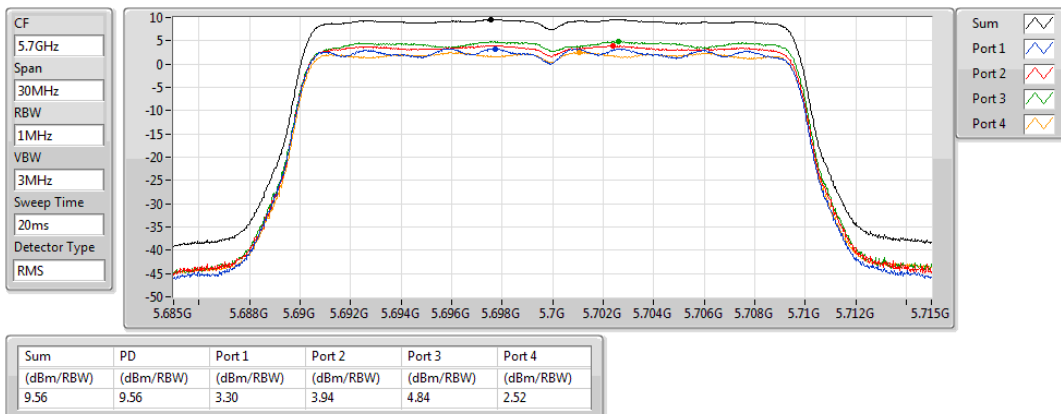


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

26/10/2019

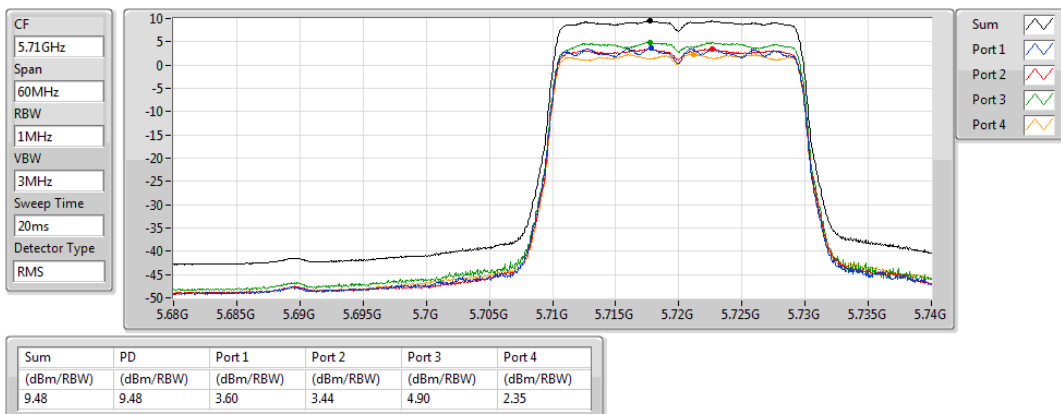


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

26/10/2019

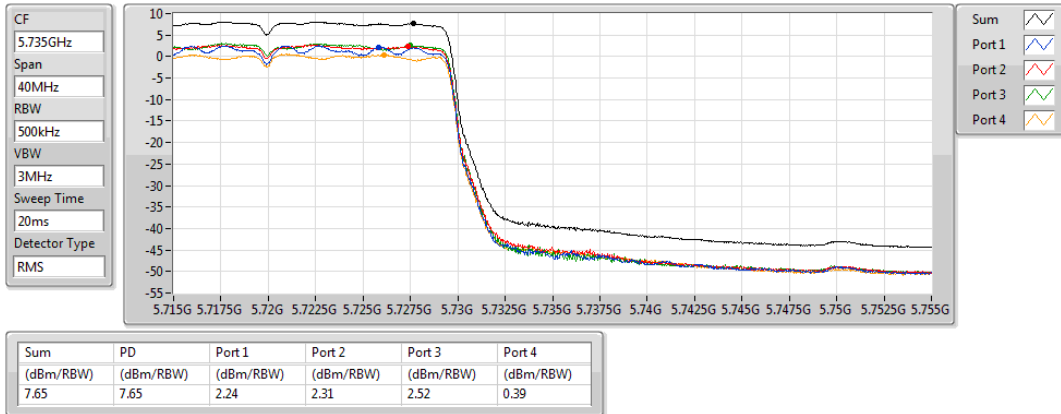


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

26/10/2019

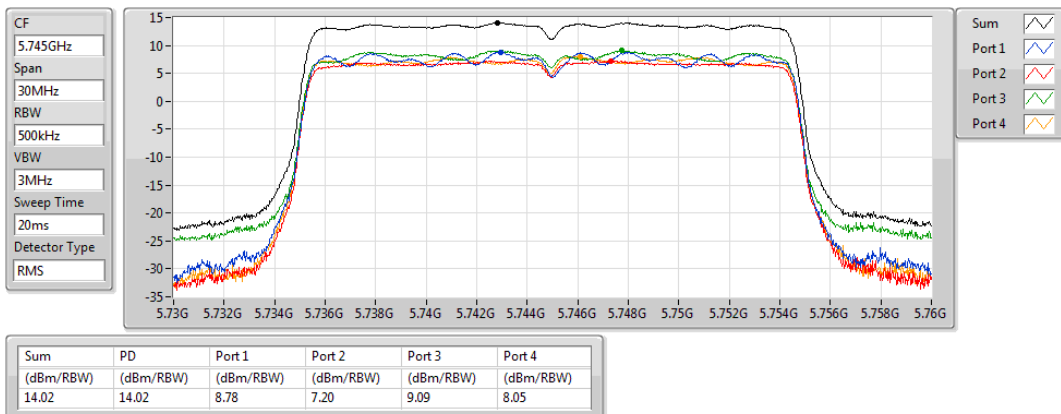


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5745MHz

26/10/2019

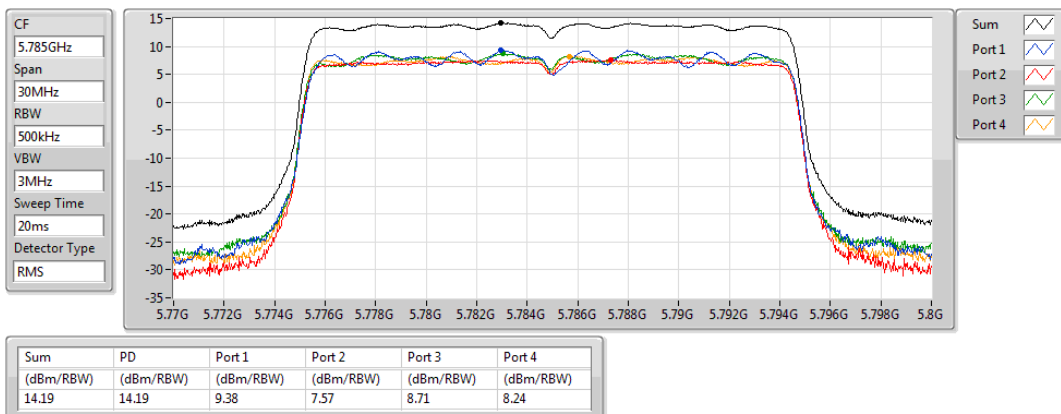


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

26/10/2019

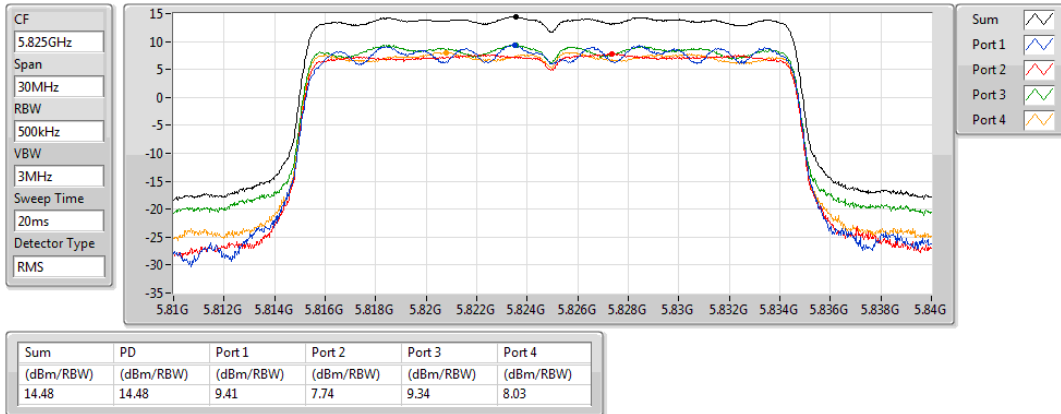


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

26/10/2019

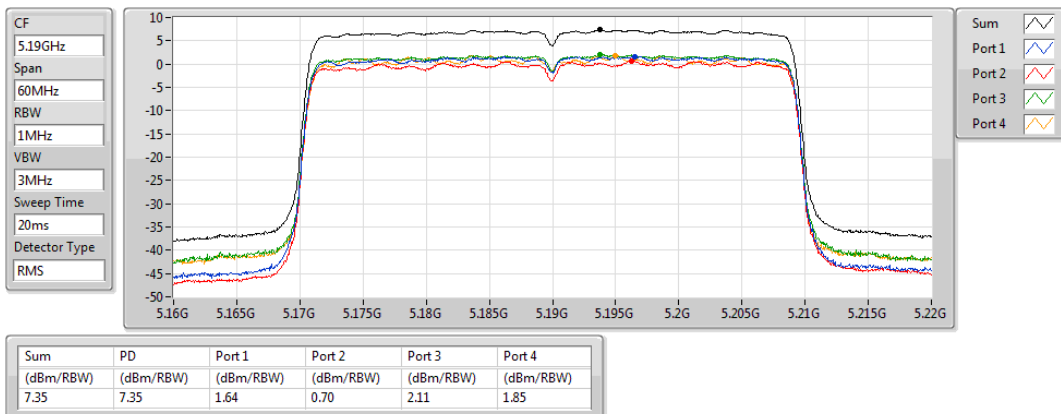


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

26/10/2019

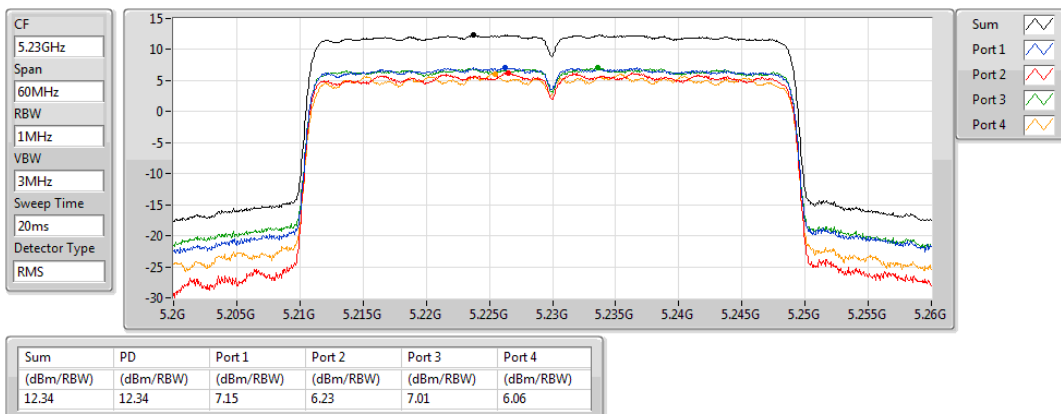


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

26/10/2019

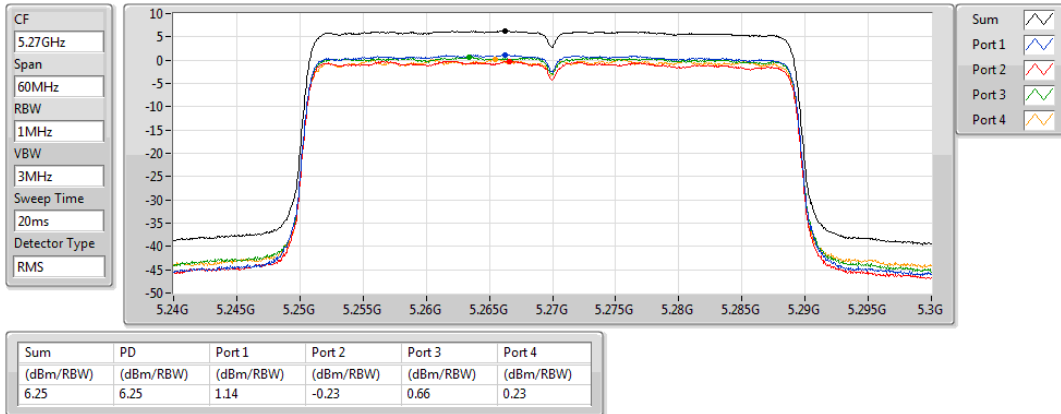


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

26/10/2019

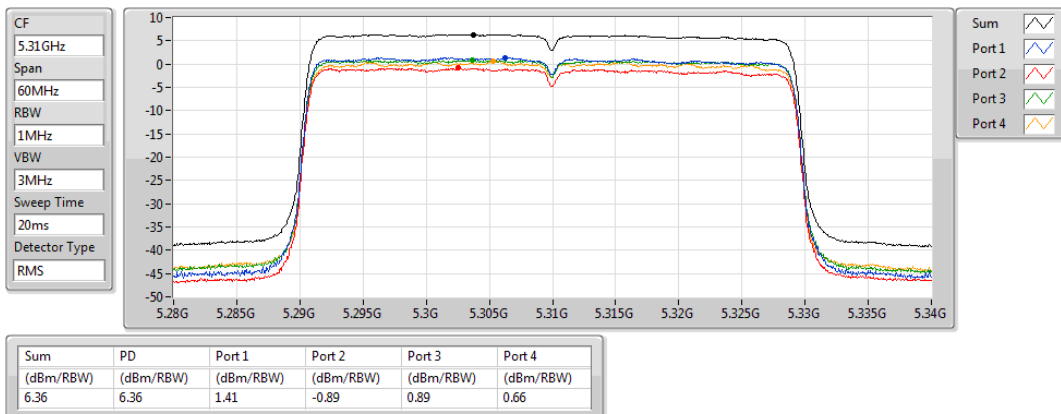


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

26/10/2019



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

26/10/2019



802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

26/10/2019

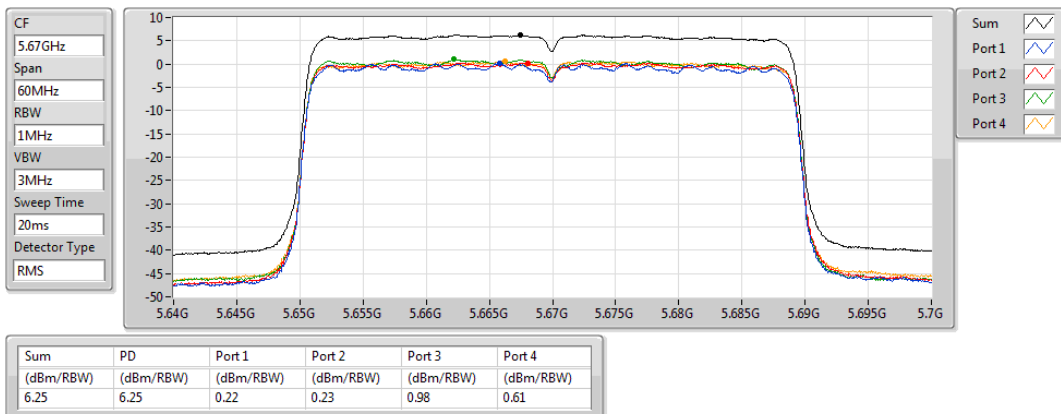


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

26/10/2019

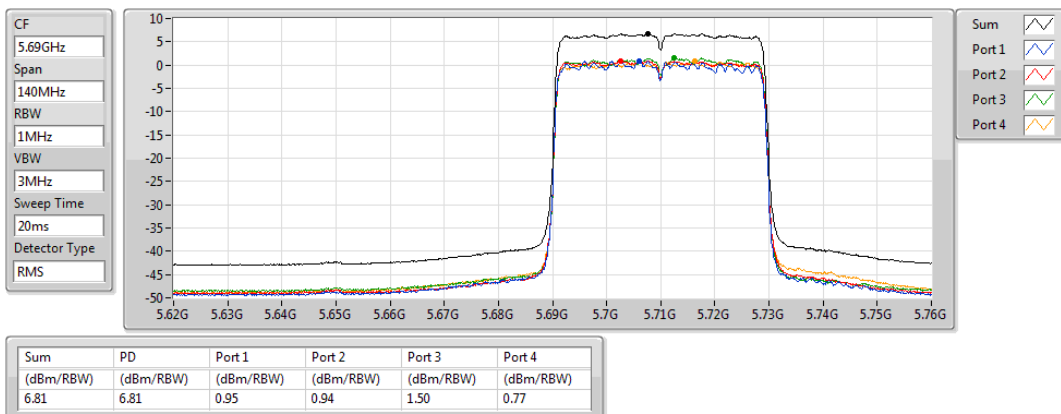


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

26/10/2019

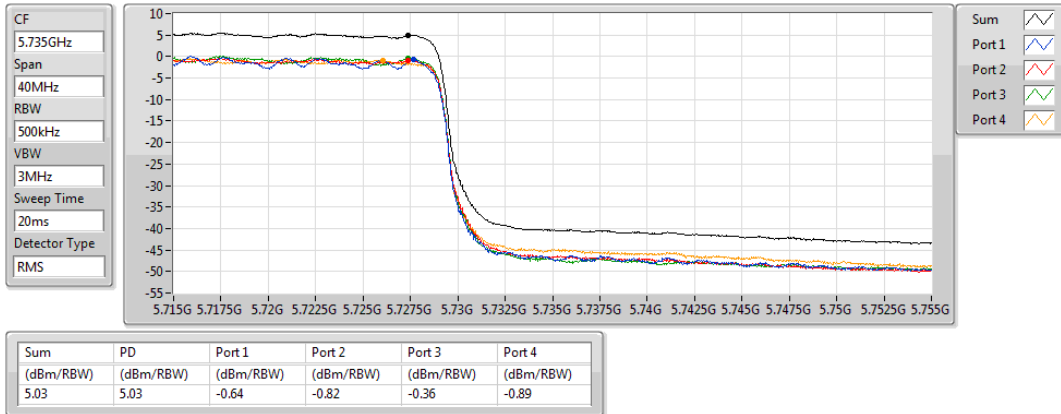


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

26/10/2019

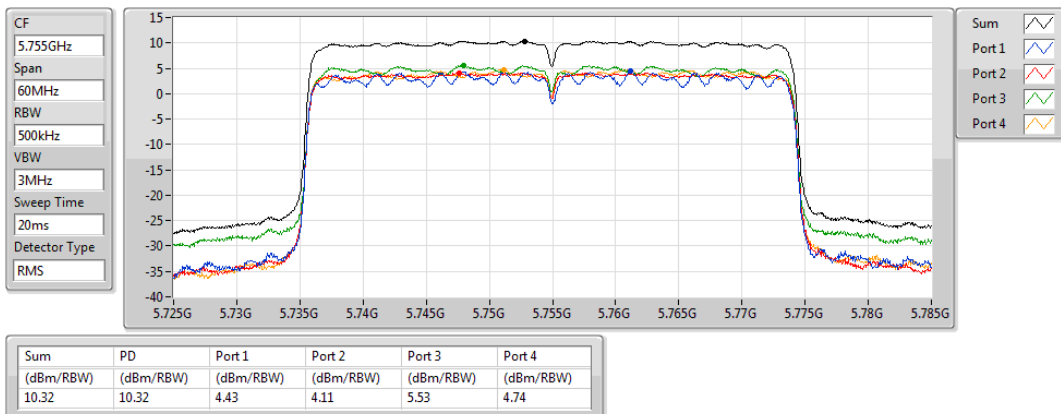


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5755MHz

26/10/2019

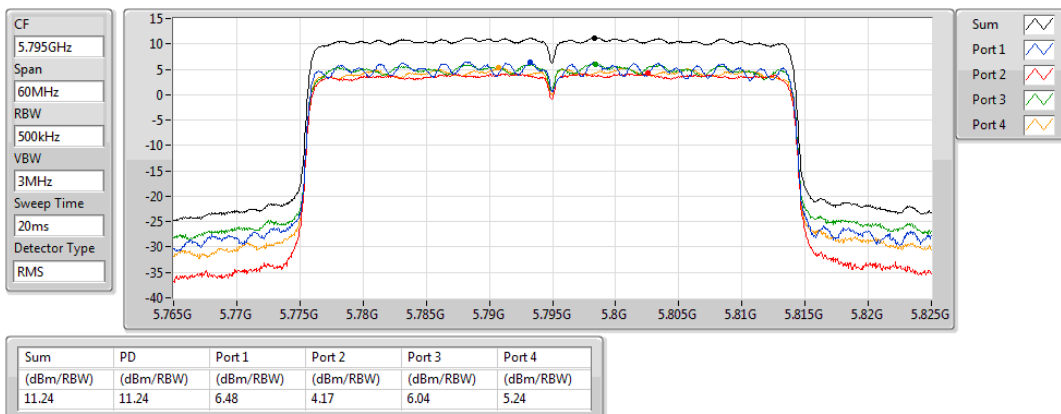


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

26/10/2019

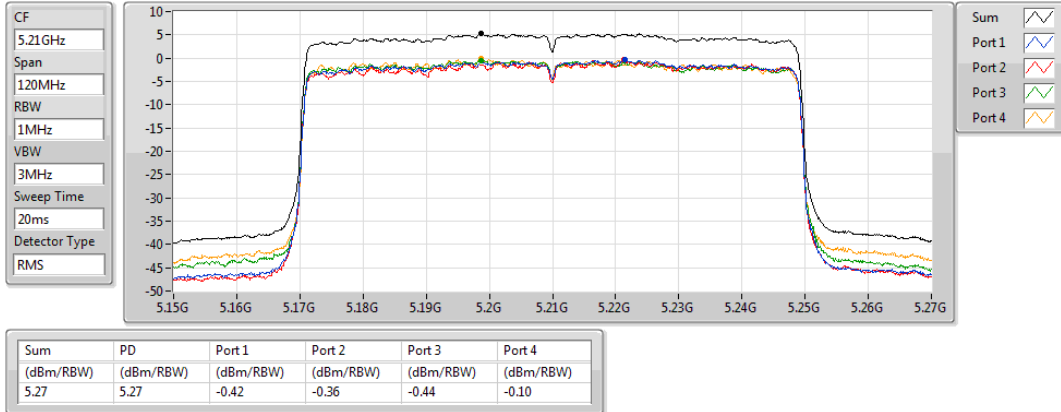


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

26/10/2019

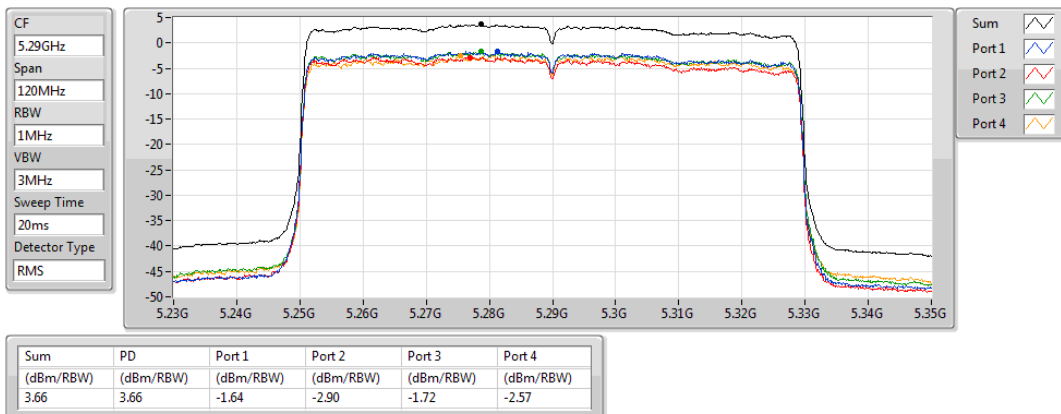


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

26/10/2019

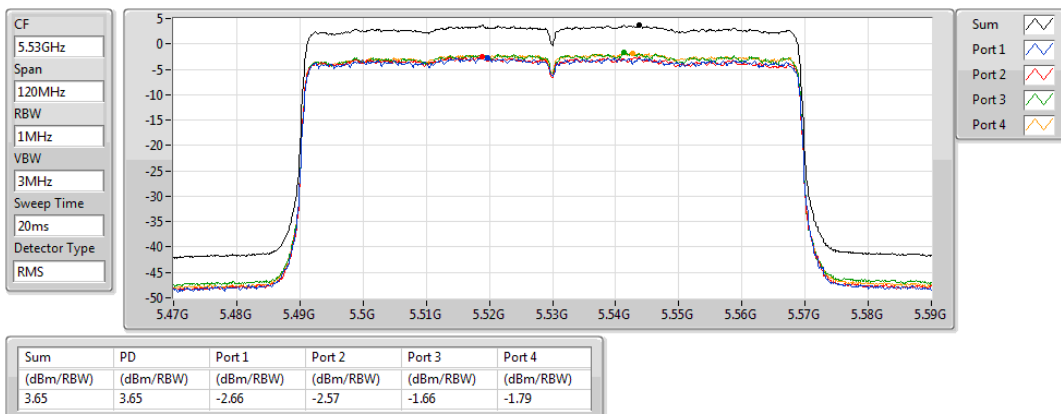


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

26/10/2019

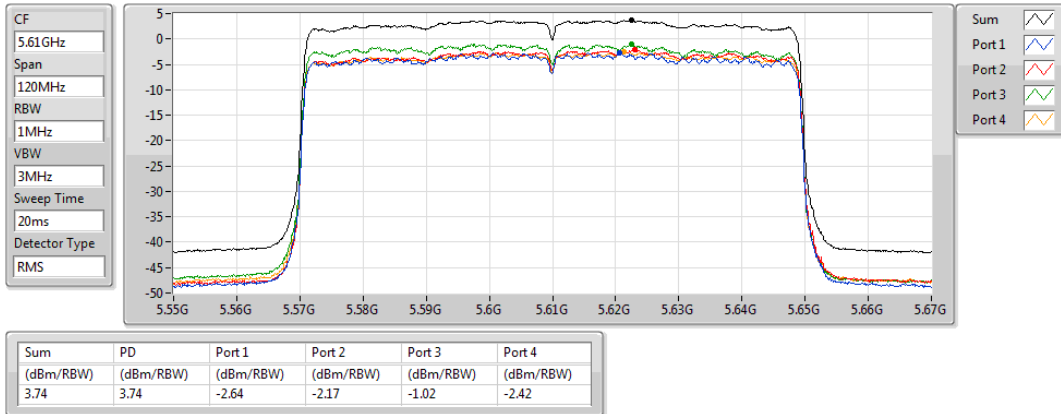


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

26/10/2019

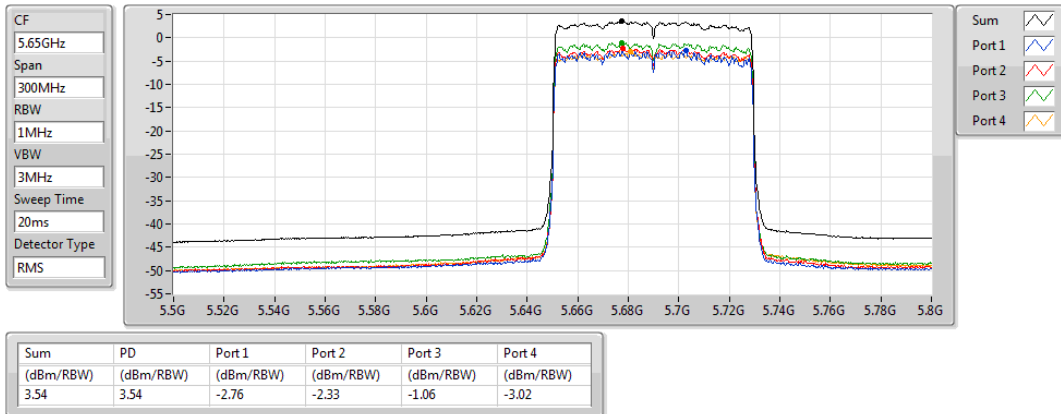


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

26/10/2019

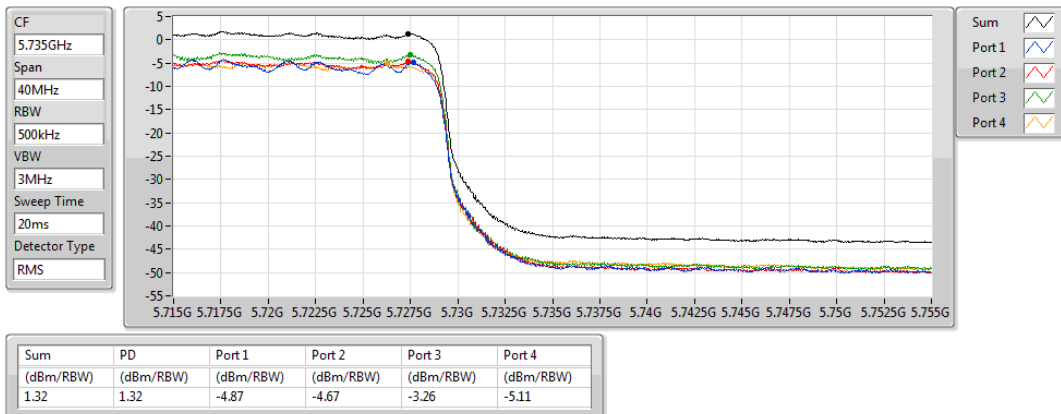


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

26/10/2019

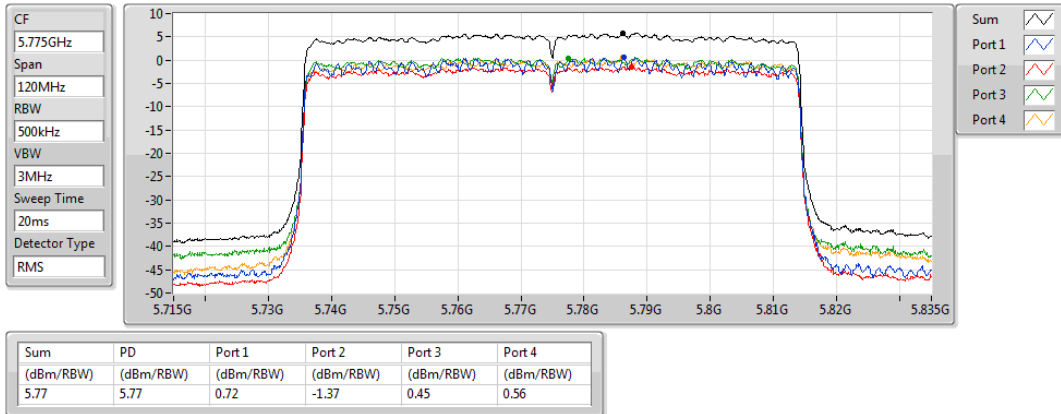


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

26/10/2019

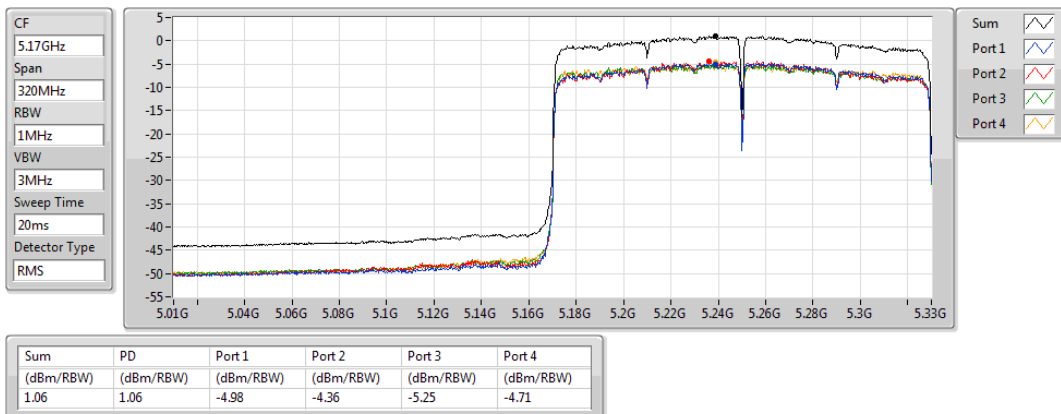


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

26/10/2019

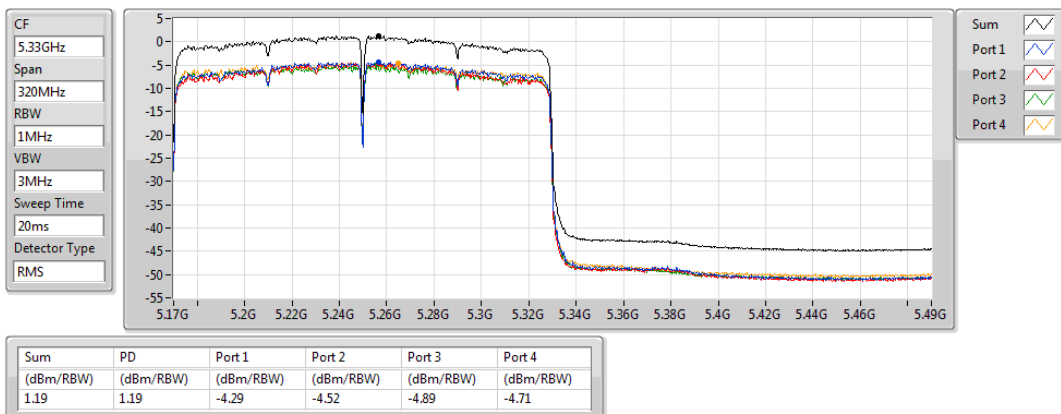


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

26/10/2019

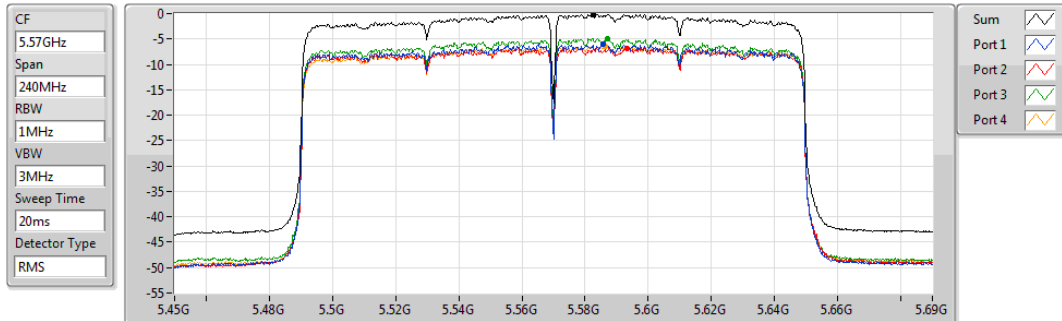


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

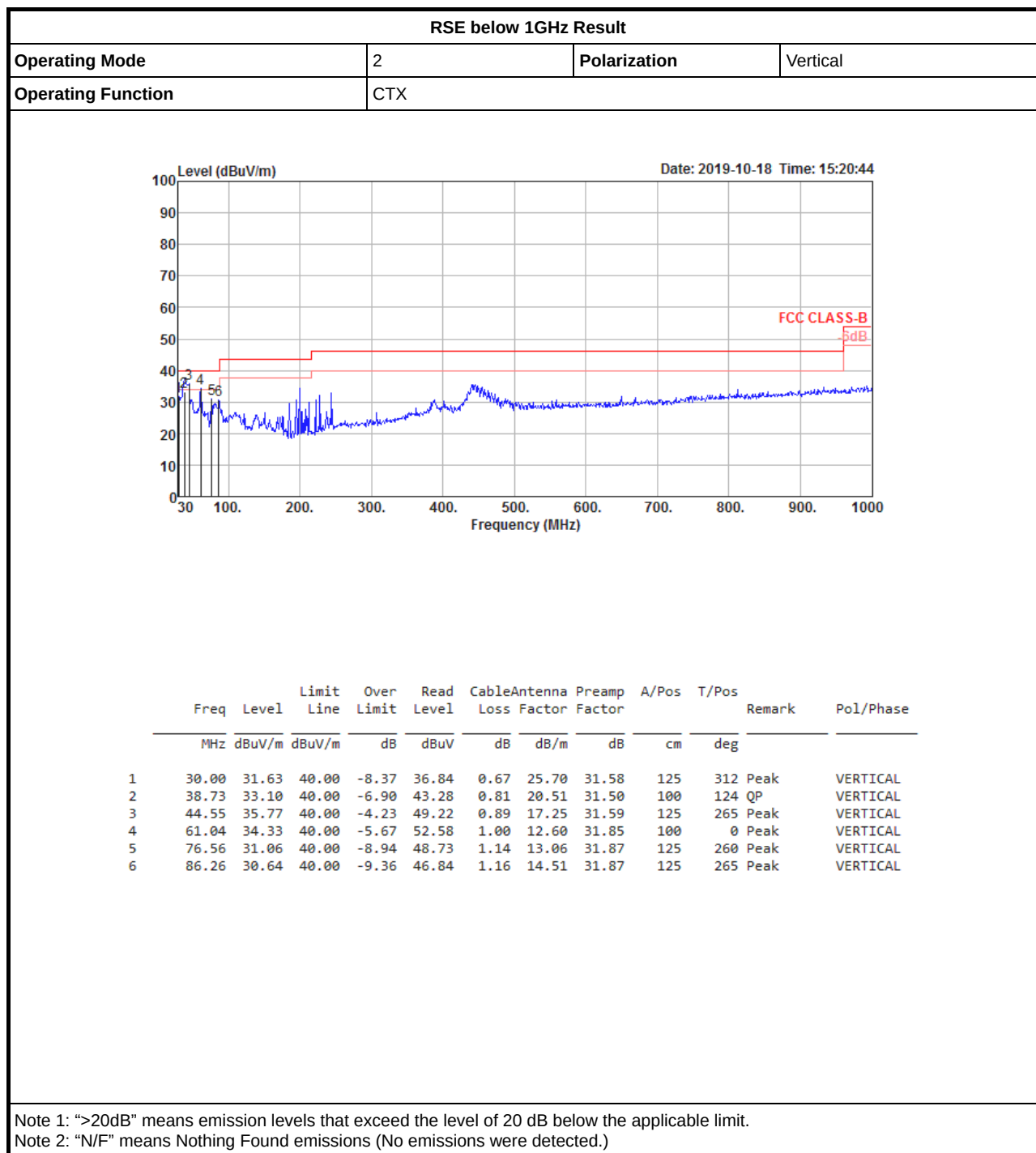
PSD

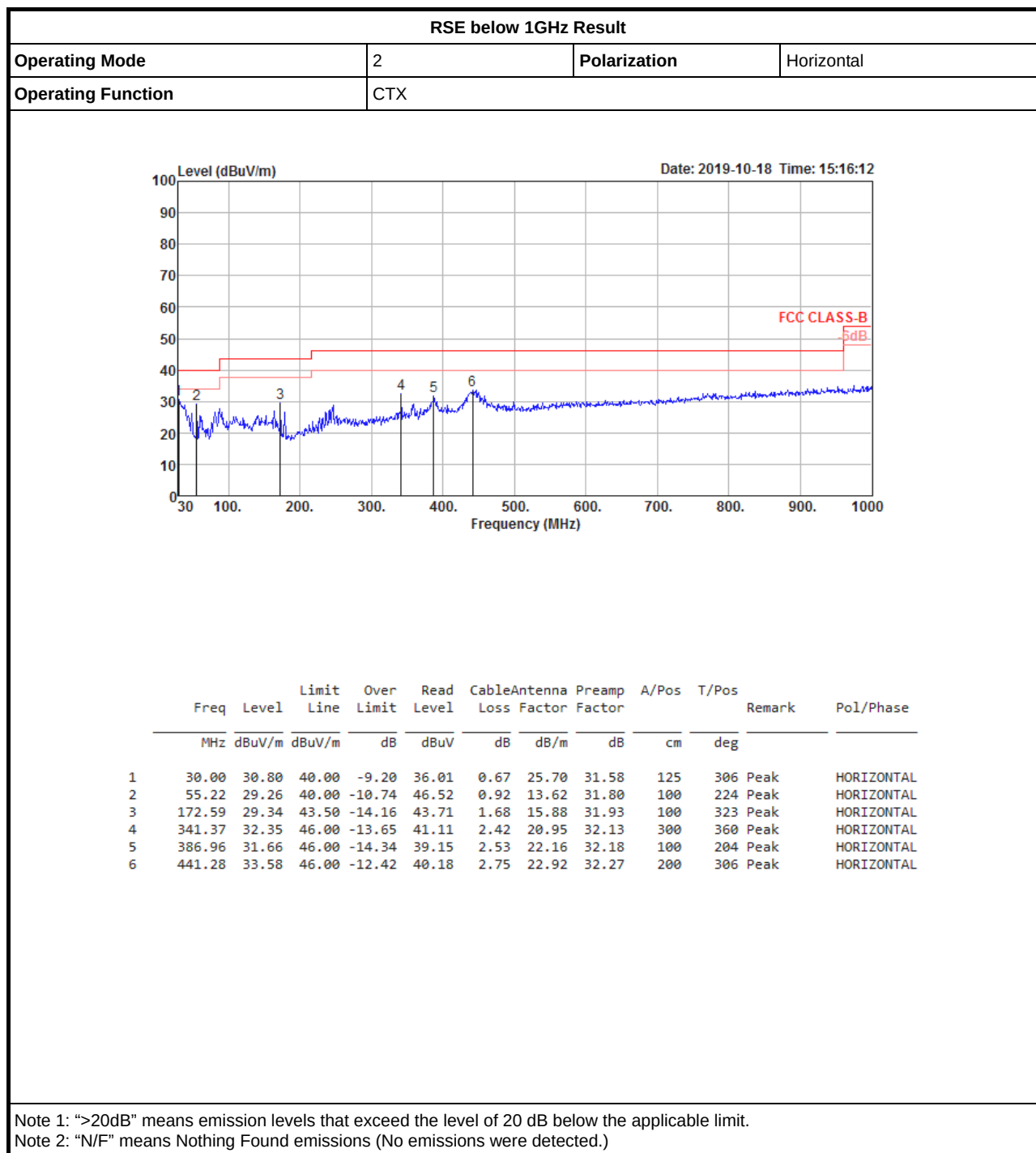
5570MHz

26/10/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.17	-0.17	-5.92	-6.82	-4.85	-6.44







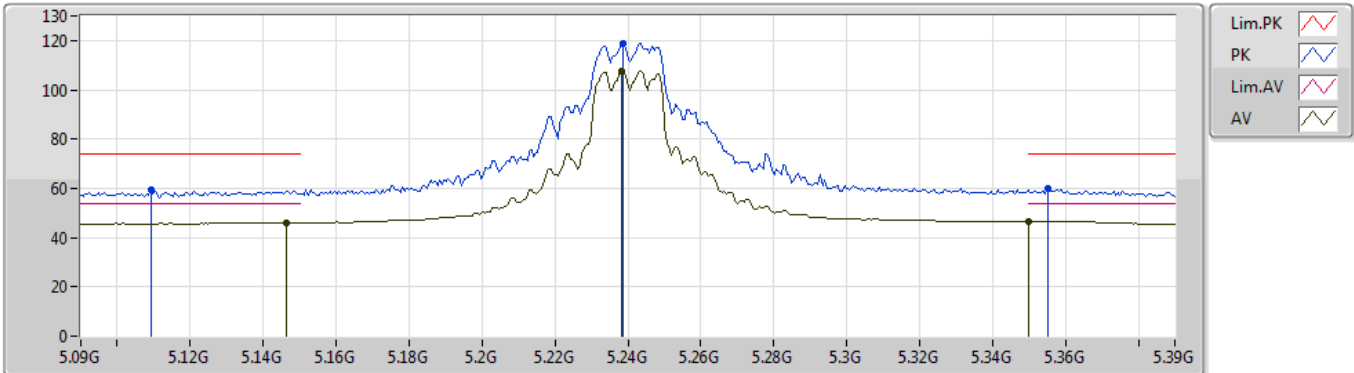
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	5.1466G	53.45	54.00	-0.55	7.94	3	Horizontal	117	1.53	-

802.11ac VHT20_Nss1,(MCS0)_4TX

18/10/2019

5240MHz_TX



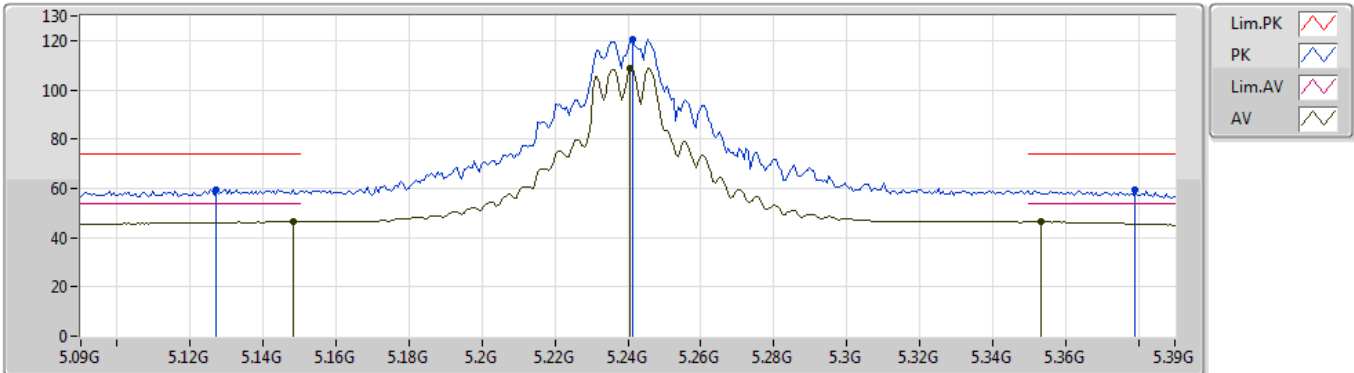
EUT Y_4TX
Setting 99
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1092G	59.20	74.00	-14.80	7.86	3	Vertical	215	1.52	-	51.34
AV	5.1464G	46.10	54.00	-7.90	7.94	3	Vertical	215	1.52	-	38.16
PK	5.2388G	119.07	Inf	-Inf	8.12	3	Vertical	215	1.52	-	110.95
AV	5.2382G	107.79	Inf	-Inf	8.12	3	Vertical	215	1.52	-	99.67
PK	5.3552G	59.70	74.00	-14.30	8.28	3	Vertical	215	1.52	-	51.42
AV	5.35G	46.65	54.00	-7.35	8.28	3	Vertical	215	1.52	-	38.37

802.11ac VHT20_Nss1,(MCS0)_4TX

18/10/2019

5240MHz_TX



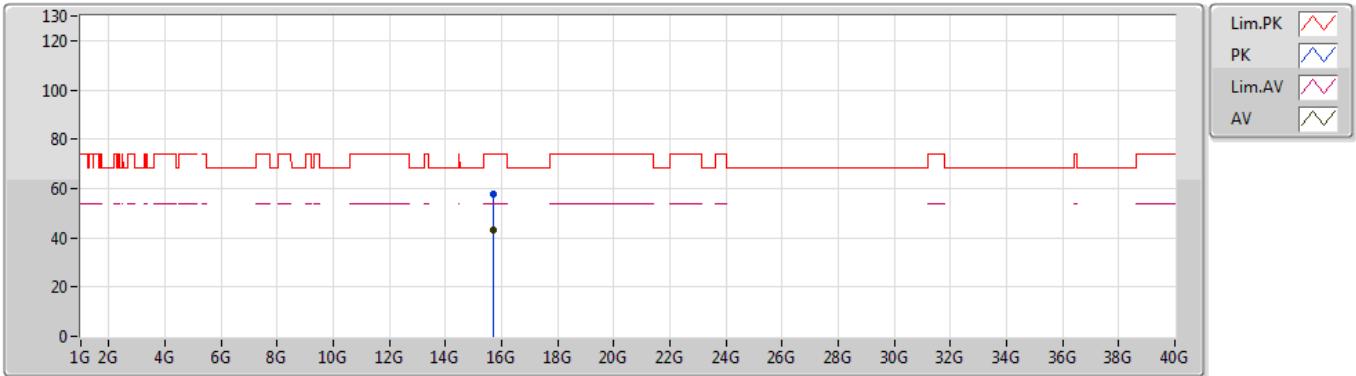
EUT Y_4TX
Setting 99
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1272G	59.47	74.00	-14.53	7.90	3	Horizontal	120	1.38	-	51.57
AV	5.1482G	46.45	54.00	-7.55	7.94	3	Horizontal	120	1.38	-	38.51
PK	5.2412G	120.35	Inf	-Inf	8.12	3	Horizontal	120	1.38	-	112.23
AV	5.2406G	108.80	Inf	-Inf	8.12	3	Horizontal	120	1.38	-	100.68
PK	5.3792G	59.25	74.00	-14.75	8.32	3	Horizontal	120	1.38	-	50.93
AV	5.3534G	46.41	54.00	-7.59	8.28	3	Horizontal	120	1.38	-	38.13

802.11ac VHT20_Nss1,(MCS0)_4TX

18/10/2019

5240MHz_TX



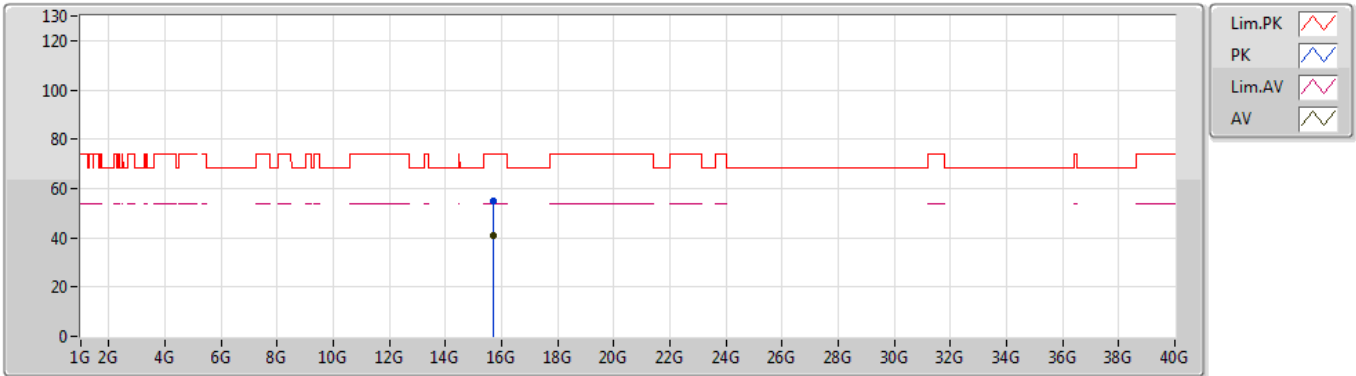
EUT Y_4TX
Setting 99
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.71316G	57.80	74.00	-16.20	15.62	3	Vertical	189	1.37	-	42.18			
AV	15.71802G	42.99	54.00	-11.01	15.61	3	Vertical	189	1.37	-	27.38			

802.11ac VHT20_Nss1,(MCS0)_4TX

18/10/2019

5240MHz_TX



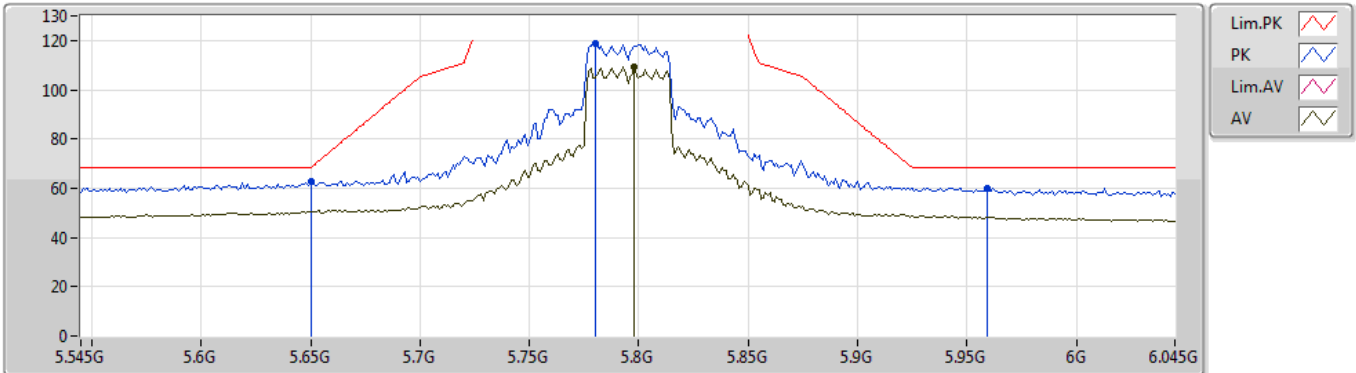
EUT Y_4TX
Setting 99
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.7179G	54.72	74.00	-19.28	15.61	3	Horizontal	190	2.31	-	39.11			
AV	15.71784G	40.75	54.00	-13.25	15.61	3	Horizontal	190	2.31	-	25.14			

802.11ac VHT40_Nss1,(MCS0)_4TX

18/10/2019

5795MHz_TX



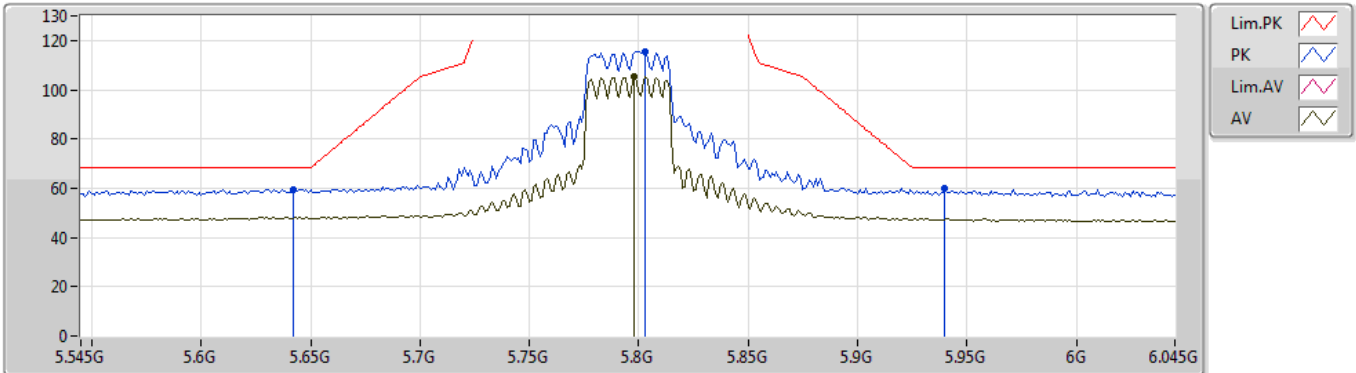
EUT_Y_4TX
Setting 96
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.65G	62.77	68.20	-5.43	8.66	3	Vertical	119	1.45	-	54.11
PK	5.78G	118.93	Inf	-Inf	8.87	3	Vertical	119	1.45	-	110.06
AV	5.798G	109.28	Inf	-Inf	8.90	3	Vertical	119	1.45	-	100.38
PK	5.959G	60.07	68.20	-8.13	8.93	3	Vertical	119	1.45	-	51.14

802.11ac VHT40_Nss1,(MCS0)_4TX

18/10/2019

5795MHz_TX



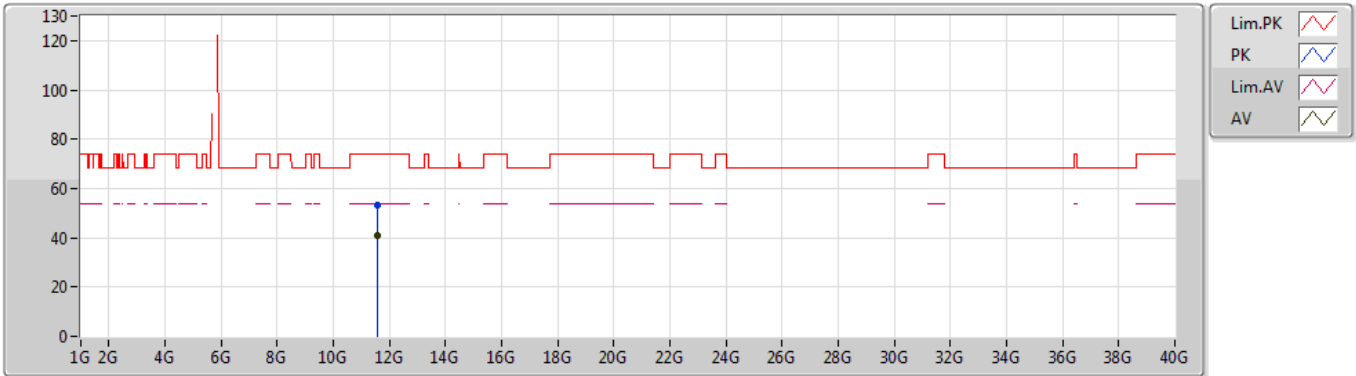
EUT Y_4TX
Setting 96
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.642G	59.49	68.20	-8.71	8.66	3	Horizontal	347	1.21	-	50.83
PK	5.803G	115.59	Inf	-Inf	8.90	3	Horizontal	347	1.21	-	106.69
AV	5.798G	105.51	Inf	-Inf	8.90	3	Horizontal	347	1.21	-	96.61
PK	5.94G	59.88	68.20	-8.32	8.93	3	Horizontal	347	1.21	-	50.95

802.11ac VHT40_Nss1,(MCS0)_4TX

18/10/2019

5795MHz_TX



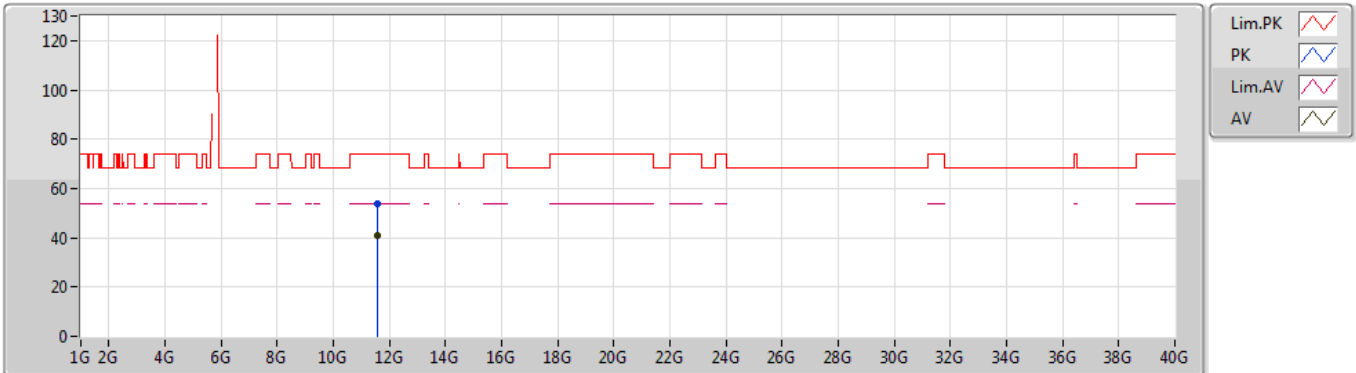
EUT Y_4TX
Setting 96
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.59294G	53.48	74.00	-20.52	15.02	3	Vertical	177	2.97	-	38.46			
AV	11.5849G	41.06	54.00	-12.94	15.02	3	Vertical	177	2.97	-	26.04			

802.11ac VHT40_Nss1,(MCS0)_4TX

18/10/2019

5795MHz_TX



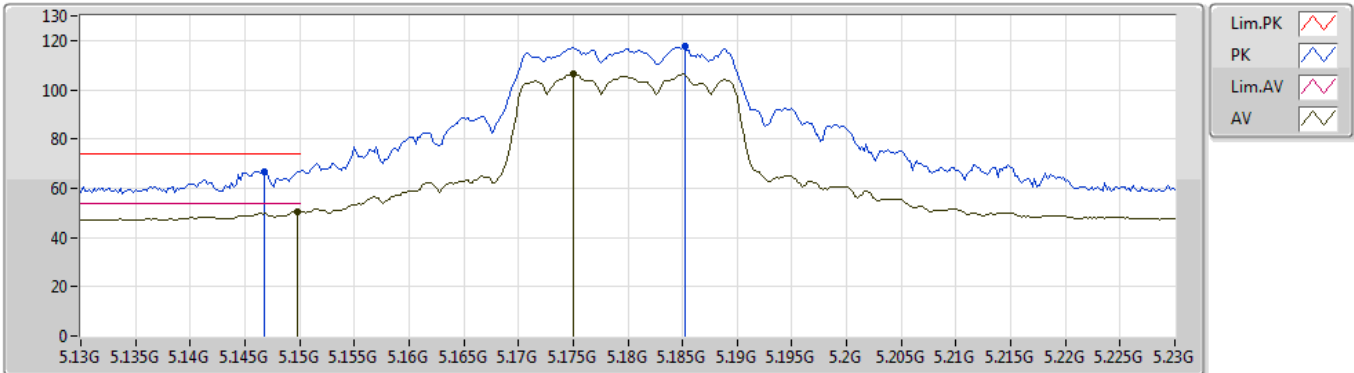
EUT Y_4TX
Setting 96
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5801G	53.84	74.00	-20.16	15.01	3	Horizontal	148	1.88	-	38.83			
AV	11.58508G	40.99	54.00	-13.01	15.02	3	Horizontal	148	1.88	-	25.97			

802.11ax HEW20_Nss1,(MCS0)_4TX

18/10/2019

5180MHz_TX



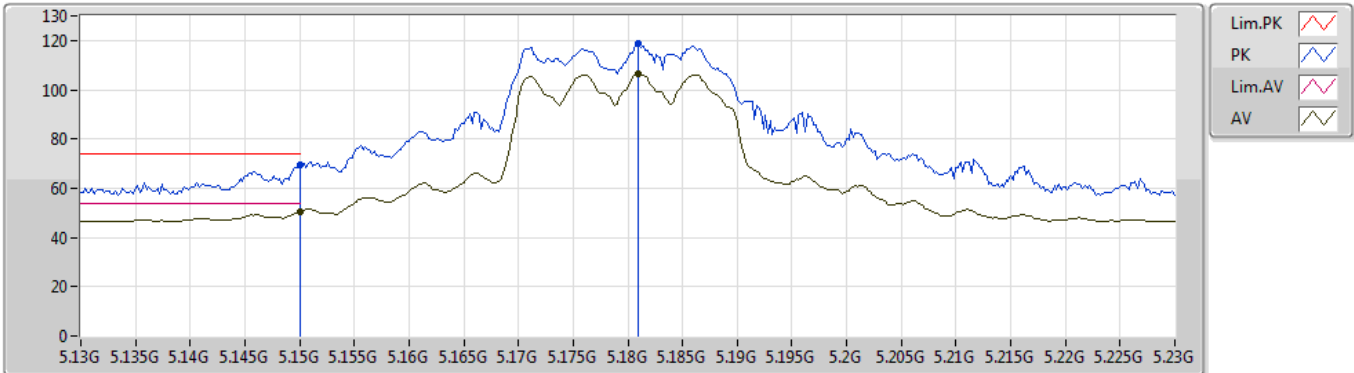
EUT Y_4TX
Setting 86
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1468G	66.67	74.00	-7.33	7.94	3	Vertical	145	1.73	-	58.73			
AV	5.1498G	50.50	54.00	-3.50	7.94	3	Vertical	145	1.73	-	42.56			
PK	5.1852G	117.61	Inf	-Inf	8.03	3	Vertical	145	1.73	-	109.58			
AV	5.175G	106.47	Inf	-Inf	8.01	3	Vertical	145	1.73	-	98.46			

802.11ax HEW20_Nss1,(MCS0)_4TX

18/10/2019

5180MHz_TX



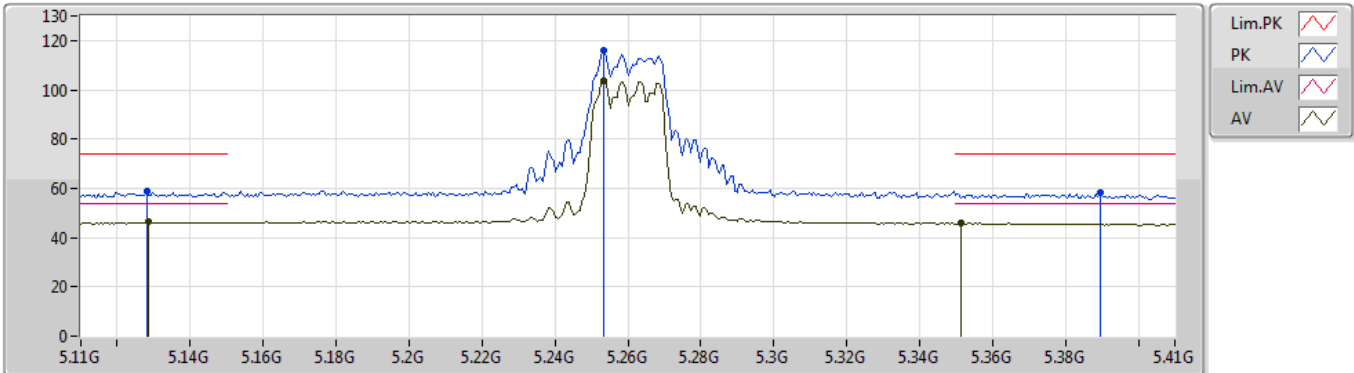
EUT Y_4TX
Setting 86
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.15G	69.74	74.00	-4.26	7.94	3	Horizontal	111	2.95	-	61.80
AV	5.15G	50.26	54.00	-3.74	7.94	3	Horizontal	111	2.95	-	42.32
PK	5.181G	118.80	Inf	-Inf	8.02	3	Horizontal	111	2.95	-	110.78
AV	5.181G	106.60	Inf	-Inf	8.02	3	Horizontal	111	2.95	-	98.58

802.11ax HEW20_Nss1,(MCS0)_4TX

18/10/2019

5260MHz_TX



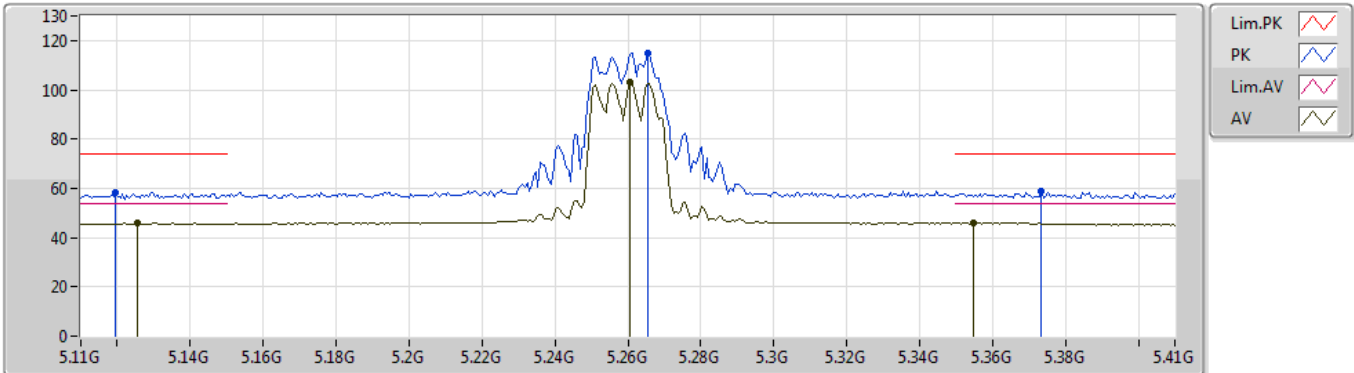
EUT Y_4TX
Setting 70
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.128G	58.82	74.00	-15.18	7.91	3	Vertical	219	2.26	-	50.91
AV	5.1286G	46.26	54.00	-7.74	7.91	3	Vertical	219	2.26	-	38.35
PK	5.2534G	116.17	Inf	-Inf	8.14	3	Vertical	219	2.26	-	108.03
AV	5.2534G	103.63	Inf	-Inf	8.14	3	Vertical	219	2.26	-	95.49
PK	5.3896G	58.34	74.00	-15.66	8.33	3	Vertical	219	2.26	-	50.01
AV	5.3512G	45.78	54.00	-8.22	8.28	3	Vertical	219	2.26	-	37.50

802.11ax HEW20_Nss1,(MCS0)_4TX

18/10/2019

5260MHz_TX



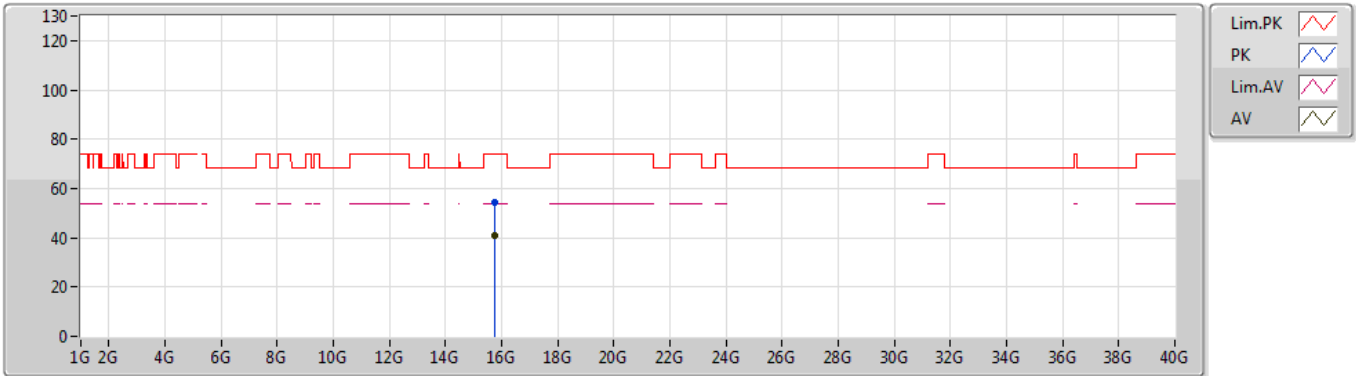
EUT Y_4TX
Setting 70
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1196G	58.22	74.00	-15.78	7.88	3	Horizontal	100	1.45	-	50.34
AV	5.1256G	45.76	54.00	-8.24	7.90	3	Horizontal	100	1.45	-	37.86
PK	5.2654G	115.05	Inf	-Inf	8.16	3	Horizontal	100	1.45	-	106.89
AV	5.2606G	103.02	Inf	-Inf	8.15	3	Horizontal	100	1.45	-	94.87
PK	5.3734G	58.86	74.00	-15.14	8.30	3	Horizontal	100	1.45	-	50.56
AV	5.3548G	46.01	54.00	-7.99	8.28	3	Horizontal	100	1.45	-	37.73

802.11ax HEW20_Nss1,(MCS0)_4TX

18/10/2019

5260MHz_TX



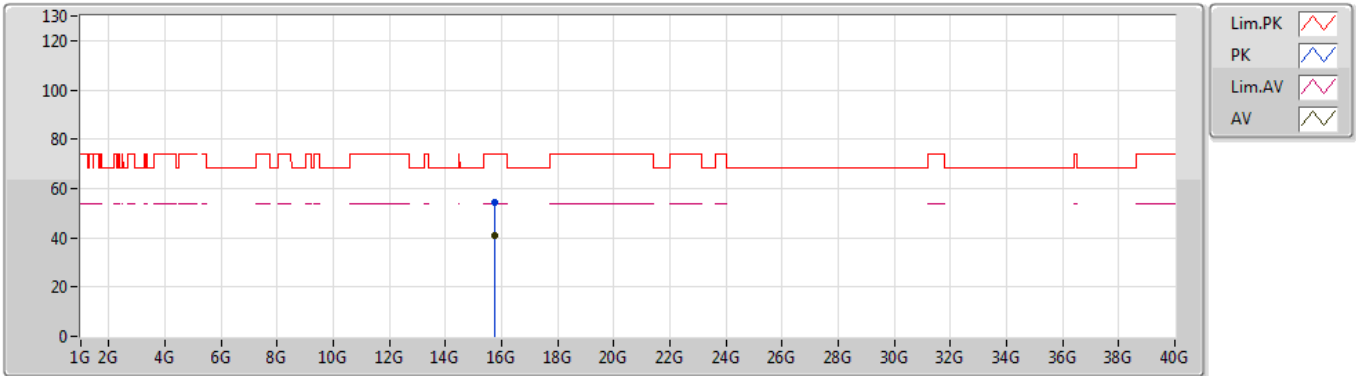
EUT Y_4TX
Setting 70
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.7752G	54.21	74.00	-19.79	15.45	3	Vertical	139	2.51	-	38.76			
AV	15.77712G	41.10	54.00	-12.90	15.45	3	Vertical	139	2.51	-	25.65			

802.11ax HEW20_Nss1,(MCS0)_4TX

18/10/2019

5260MHz_TX



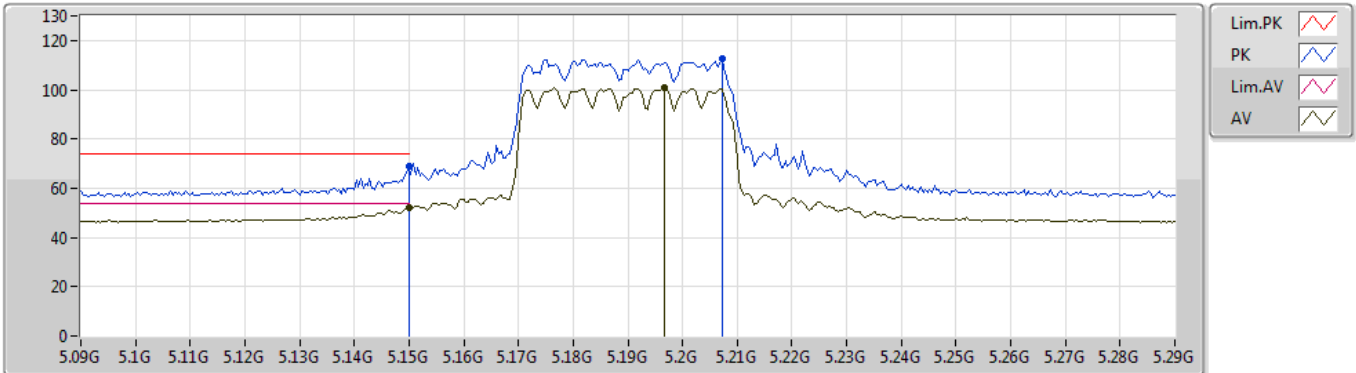
EUT Y_4TX
Setting 70
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.77418G	54.42	74.00	-19.58	15.45	3	Horizontal	277	2.51	-	38.97			
AV	15.76974G	40.99	54.00	-13.01	15.46	3	Horizontal	277	2.51	-	25.53			

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5190MHz_TX



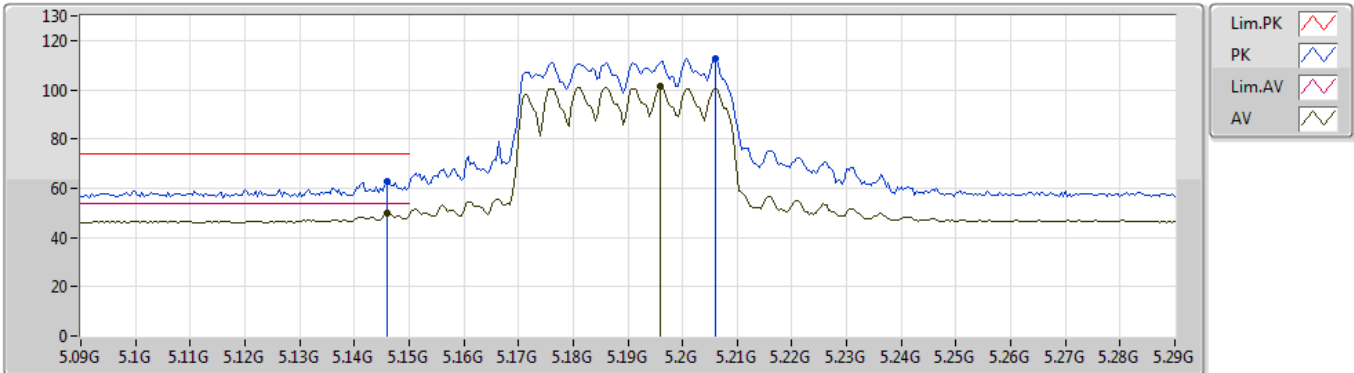
EUT Y_4TX
Setting 74
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.15G	69.07	74.00	-4.93	7.94	3	Vertical	137	1.60	-	61.13
AV	5.15G	52.03	54.00	-1.97	7.94	3	Vertical	137	1.60	-	44.09
PK	5.2072G	112.57	Inf	-Inf	8.07	3	Vertical	137	1.60	-	104.50
AV	5.1968G	100.97	Inf	-Inf	8.06	3	Vertical	137	1.60	-	92.91

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5190MHz_TX



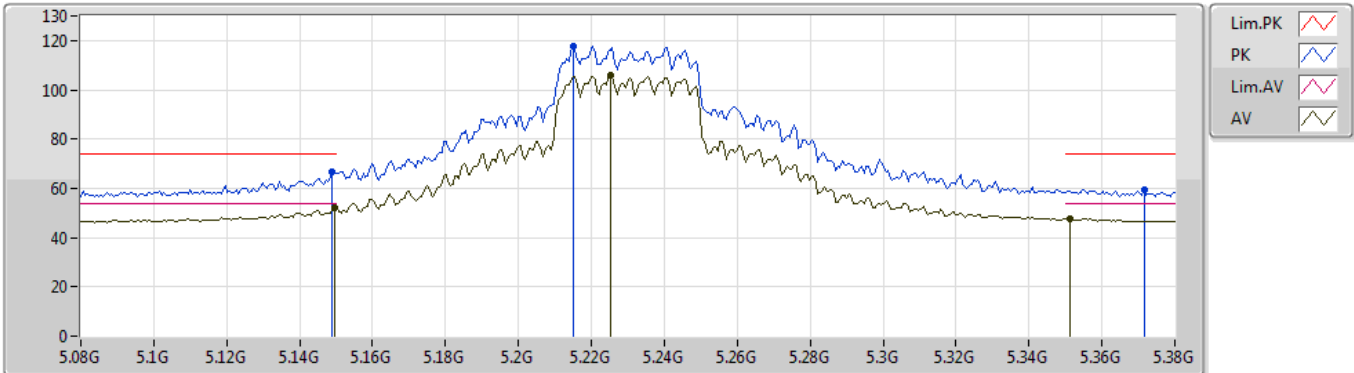
EUT Y_4TX
Setting 74
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.146G	62.50	74.00	-11.50	7.94	3	Horizontal	122	2.80	-	54.56
AV	5.146G	49.75	54.00	-4.25	7.94	3	Horizontal	122	2.80	-	41.81
PK	5.206G	112.52	Inf	-Inf	8.07	3	Horizontal	122	2.80	-	104.45
AV	5.196G	101.22	Inf	-Inf	8.06	3	Horizontal	122	2.80	-	93.16

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5230MHz_TX



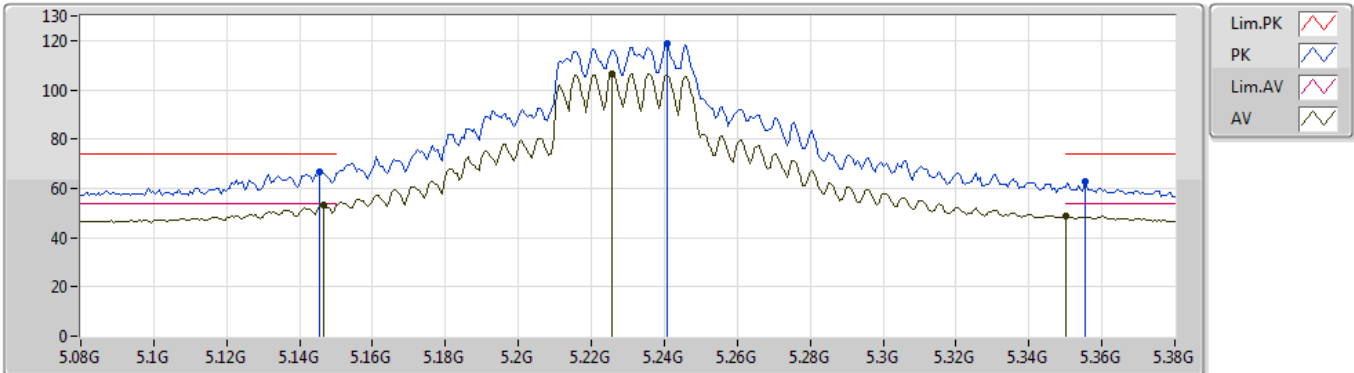
EUT Y_4TX
Setting 97
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.149G	66.75	74.00	-7.25	7.94	3	Vertical	300	1.61	-	58.81
AV	5.1496G	52.17	54.00	-1.83	7.94	3	Vertical	300	1.61	-	44.23
PK	5.215G	117.45	Inf	-Inf	8.08	3	Vertical	300	1.61	-	109.37
AV	5.2252G	105.93	Inf	-Inf	8.10	3	Vertical	300	1.61	-	97.83
PK	5.3716G	59.37	74.00	-14.63	8.30	3	Vertical	300	1.61	-	51.07
AV	5.3512G	47.54	54.00	-6.46	8.28	3	Vertical	300	1.61	-	39.26

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5230MHz_TX



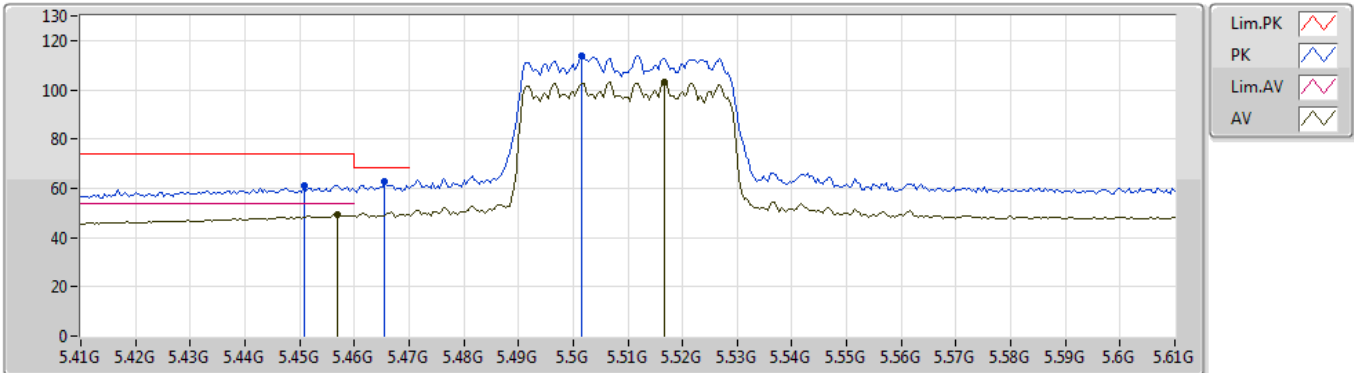
EUT Y_4TX
Setting 97
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1454G	66.52	74.00	-7.48	7.94	3	Horizontal	117	1.53	-	58.58			
AV	5.1466G	53.45	54.00	-0.55	7.94	3	Horizontal	117	1.53	-	45.51			
PK	5.2408G	118.68	Inf	-Inf	8.12	3	Horizontal	117	1.53	-	110.56			
AV	5.2258G	106.72	Inf	-Inf	8.10	3	Horizontal	117	1.53	-	98.62			
PK	5.3554G	62.52	74.00	-11.48	8.28	3	Horizontal	117	1.53	-	54.24			
AV	5.35G	48.79	54.00	-5.21	8.28	3	Horizontal	117	1.53	-	40.51			

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5510MHz_TX



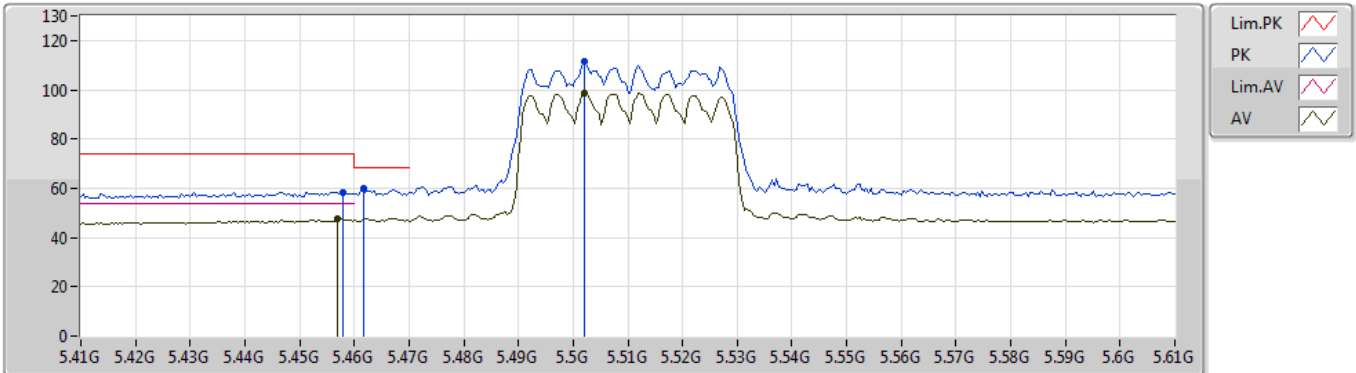
EUT Y_4TX
Setting 67
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4508G	61.35	74.00	-12.65	8.44	3	Vertical	114	1.96	-	52.91			
AV	5.4568G	49.53	54.00	-4.47	8.44	3	Vertical	114	1.96	-	41.09			
PK	5.4656G	62.75	68.20	-5.45	8.46	3	Vertical	114	1.96	-	54.29			
PK	5.5016G	113.83	Inf	-Inf	8.52	3	Vertical	114	1.96	-	105.31			
AV	5.5168G	103.00	Inf	-Inf	8.53	3	Vertical	114	1.96	-	94.47			

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5510MHz_TX



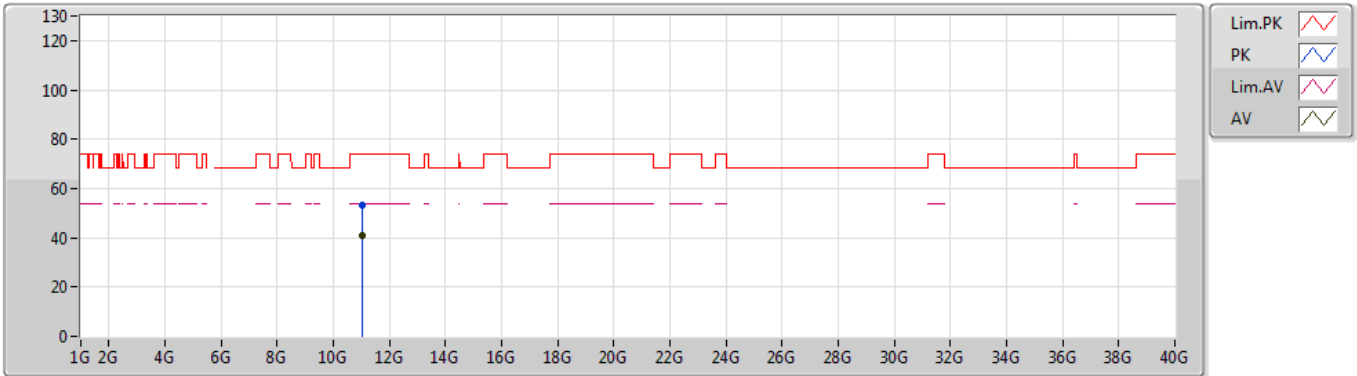
EUT Y_4TX
Setting 67
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.458G	58.42	74.00	-15.58	8.45	3	Horizontal	278	2.14	-	49.97
AV	5.4568G	47.48	54.00	-6.52	8.44	3	Horizontal	278	2.14	-	39.04
PK	5.4616G	60.18	68.20	-8.02	8.45	3	Horizontal	278	2.14	-	51.73
PK	5.502G	111.31	Inf	-Inf	8.52	3	Horizontal	278	2.14	-	102.79
AV	5.502G	98.65	Inf	-Inf	8.52	3	Horizontal	278	2.14	-	90.13

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5510MHz_TX



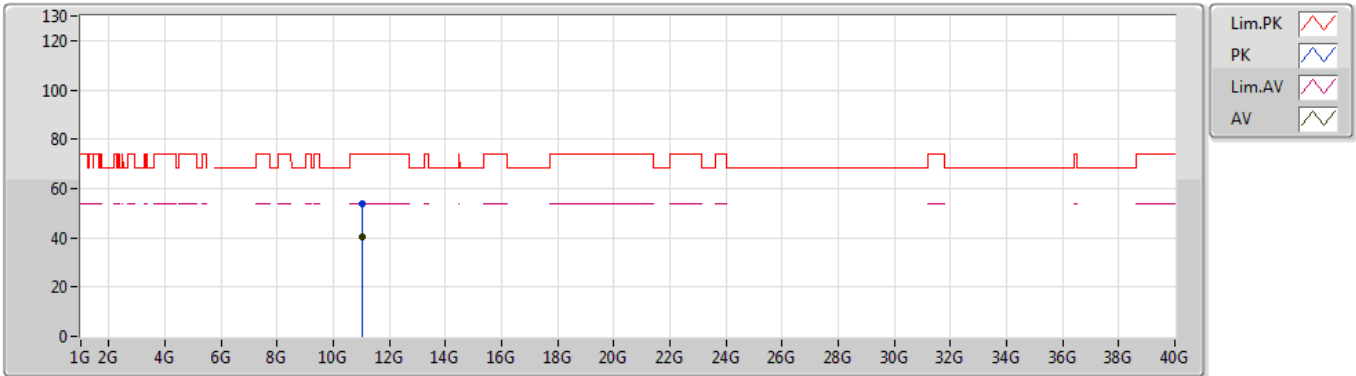
EUT Y_4TX
Setting 67
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.0296G	53.11	74.00	-20.89	14.30	3	Vertical	68	1.47	-	38.81			
AV	11.02588G	40.64	54.00	-13.36	14.29	3	Vertical	68	1.47	-	26.35			

802.11ax HEW40_Nss1,(MCS0)_4TX

18/10/2019

5510MHz_TX



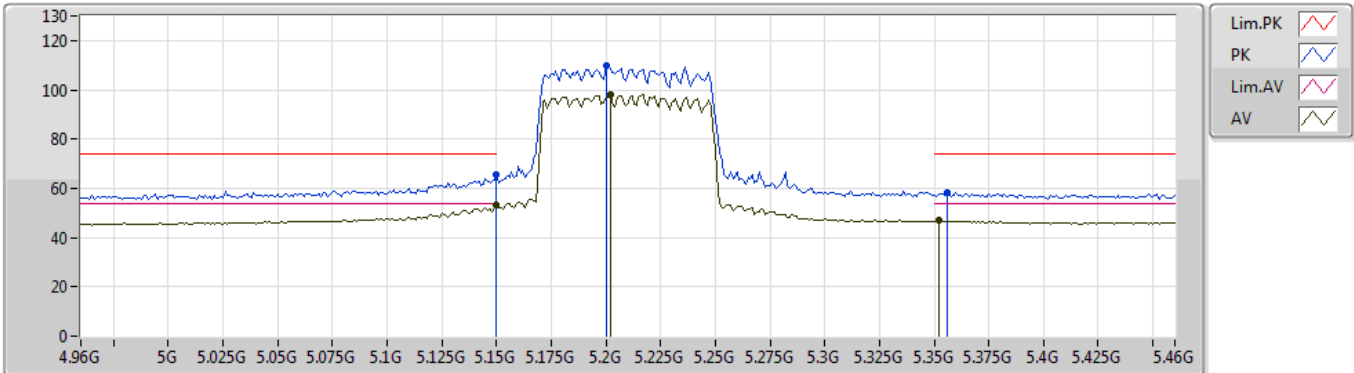
EUT Y_4TX
Setting 67
02-W-3
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.0122G	53.52	74.00	-20.48	14.28	3	Horizontal	13	1.14	-	39.24			
AV	11.0284G	40.44	54.00	-13.56	14.30	3	Horizontal	13	1.14	-	26.14			

802.11ax HEW80_Nss1,(MCS0)_4TX

18/10/2019

5210MHz_TX



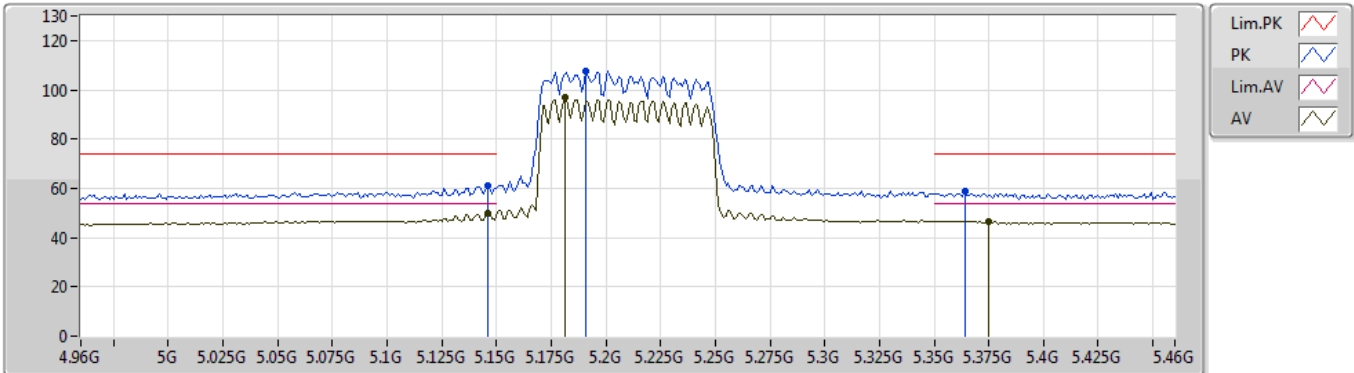
EUT_Y_4TX
Setting 66
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.15G	65.57	74.00	-8.43	7.94	3	Vertical	133	1.51	-	57.63
AV	5.15G	53.06	54.00	-0.94	7.94	3	Vertical	133	1.51	-	45.12
PK	5.2G	109.62	Inf	-Inf	8.06	3	Vertical	133	1.51	-	101.56
AV	5.202G	97.89	Inf	-Inf	8.06	3	Vertical	133	1.51	-	89.83
PK	5.356G	58.28	74.00	-15.72	8.28	3	Vertical	133	1.51	-	50.00
AV	5.352G	46.92	54.00	-7.08	8.28	3	Vertical	133	1.51	-	38.64

802.11ax HEW80_Nss1,(MCS0)_4TX

18/10/2019

5210MHz_TX



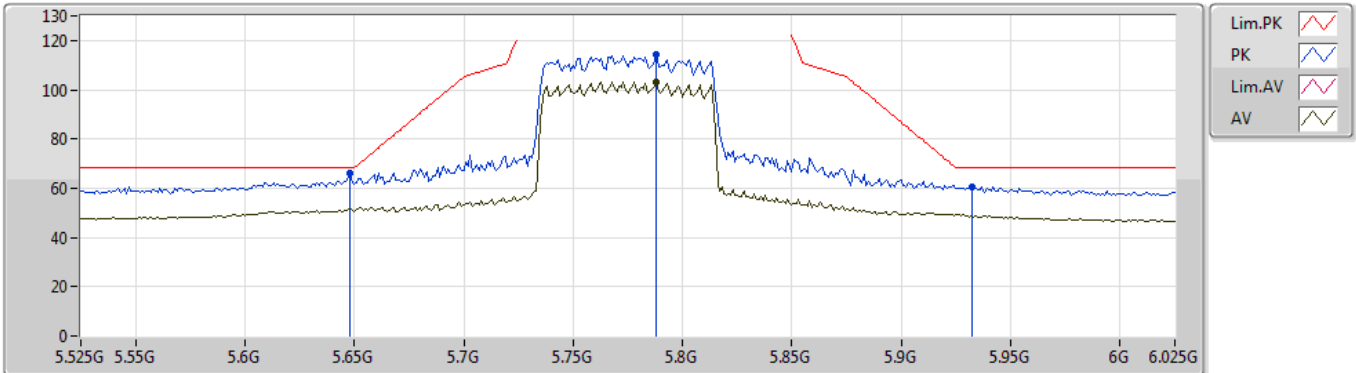
EUT Y_4TX
Setting 66
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.146G	60.95	74.00	-13.05	7.94	3	Horizontal	111	2.94	-	53.01
AV	5.146G	49.87	54.00	-4.13	7.94	3	Horizontal	111	2.94	-	41.93
PK	5.191G	107.70	Inf	-Inf	8.04	3	Horizontal	111	2.94	-	99.66
AV	5.181G	97.09	Inf	-Inf	8.02	3	Horizontal	111	2.94	-	89.07
PK	5.364G	58.88	74.00	-15.12	8.29	3	Horizontal	111	2.94	-	50.59
AV	5.375G	46.78	54.00	-7.22	8.31	3	Horizontal	111	2.94	-	38.47

802.11ax HEW80_Nss1,(MCS0)_4TX

18/10/2019

5775MHz_TX



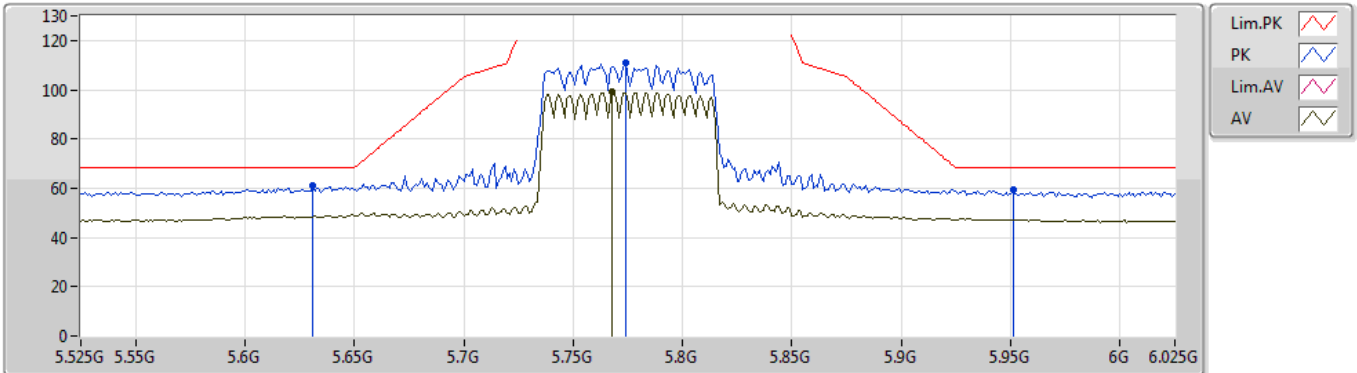
EUT Y_4TX
Setting 79
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.648G	65.86	68.20	-2.34	8.67	3	Vertical	114	1.61	-	57.19
PK	5.788G	114.32	Inf	-Inf	8.87	3	Vertical	114	1.61	-	105.45
AV	5.788G	103.15	Inf	-Inf	8.87	3	Vertical	114	1.61	-	94.28
PK	5.932G	60.54	68.20	-7.66	8.93	3	Vertical	114	1.61	-	51.61

802.11ax HEW80_Nss1,(MCS0)_4TX

18/10/2019

5775MHz_TX



EUT Y_4TX
Setting 79
02-W-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.631G	61.10	68.20	-7.10	8.63	3	Horizontal	342	1.46	-	52.47
PK	5.774G	110.76	Inf	-Inf	8.86	3	Horizontal	342	1.46	-	101.90
AV	5.768G	99.18	Inf	-Inf	8.85	3	Horizontal	342	1.46	-	90.33
PK	5.951G	59.13	68.20	-9.07	8.92	3	Horizontal	342	1.46	-	50.21



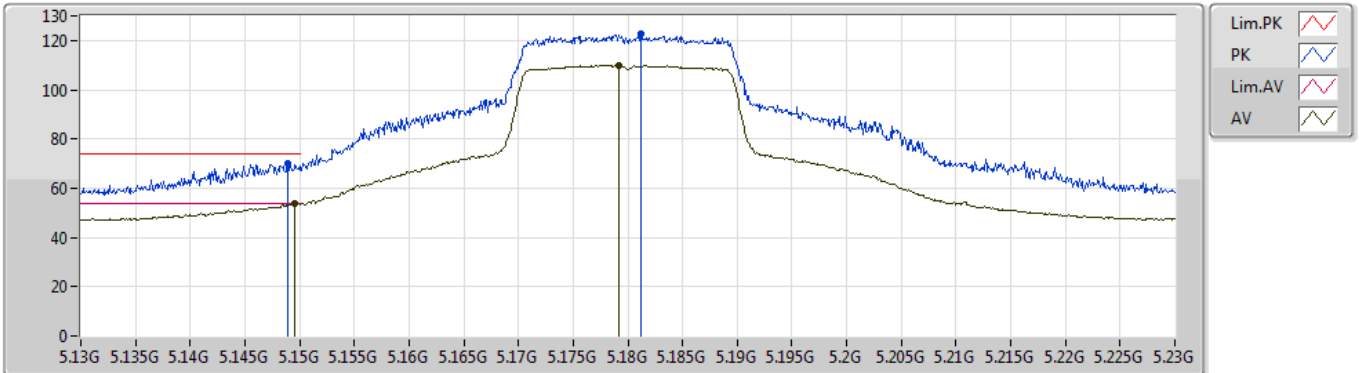
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	AV	5.1496G	53.99	54.00	-0.01	5.11	3	Horizontal	227	2.23	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5180MHz_TX



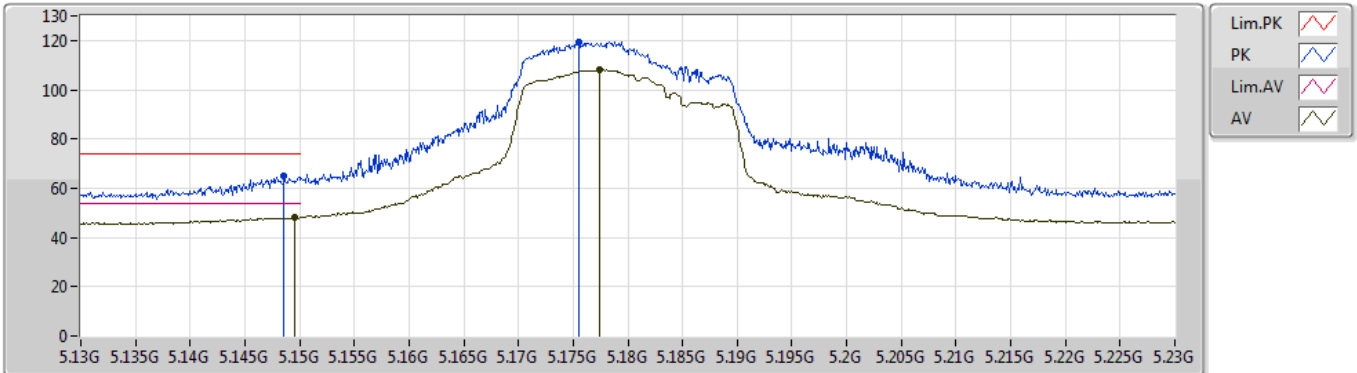
EUT_Y_4TX
Setting 89
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1489G	69.86	74.00	-4.14	5.11	3	Vertical	227	2.15	-	64.75			
AV	5.1495G	53.89	54.00	-0.11	5.11	3	Vertical	227	2.15	-	48.78			
PK	5.1812G	122.68	Inf	-Inf	5.11	3	Vertical	227	2.15	-	117.57			
AV	5.1792G	109.88	Inf	-Inf	5.11	3	Vertical	227	2.15	-	104.77			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5180MHz_TX



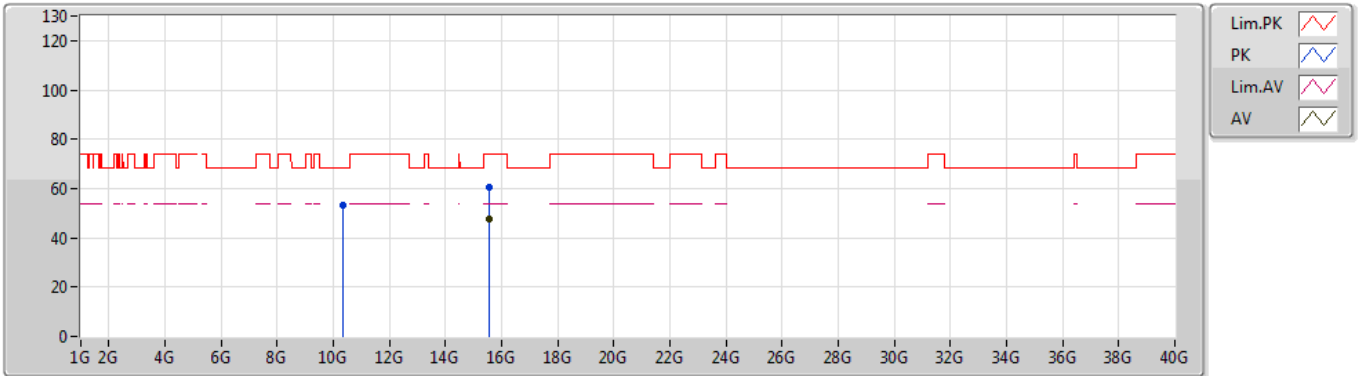
EUT Y_4TX
Setting 89
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1486G	64.74	74.00	-9.26	5.11	3	Horizontal	208	1.50	-	59.63			
AV	5.1496G	48.07	54.00	-5.93	5.11	3	Horizontal	208	1.50	-	42.96			
PK	5.1755G	119.45	Inf	-Inf	5.11	3	Horizontal	208	1.50	-	114.34			
AV	5.1774G	108.19	Inf	-Inf	5.11	3	Horizontal	208	1.50	-	103.08			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5180MHz_TX



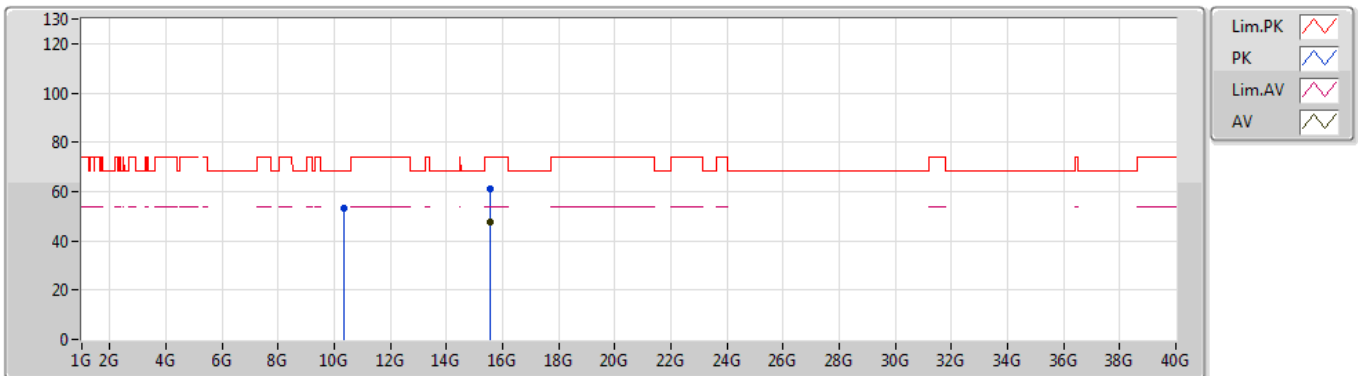
EUT Y_4TX
Setting 89
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.36774G	53.02	68.20	-15.18	11.89	3	Vertical	178	2.84	-	41.13			
PK	15.54184G	60.71	74.00	-13.29	15.35	3	Vertical	108	2.08	-	45.36			
AV	15.54386G	47.59	54.00	-6.41	15.35	3	Vertical	108	2.08	-	32.24			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5180MHz_TX



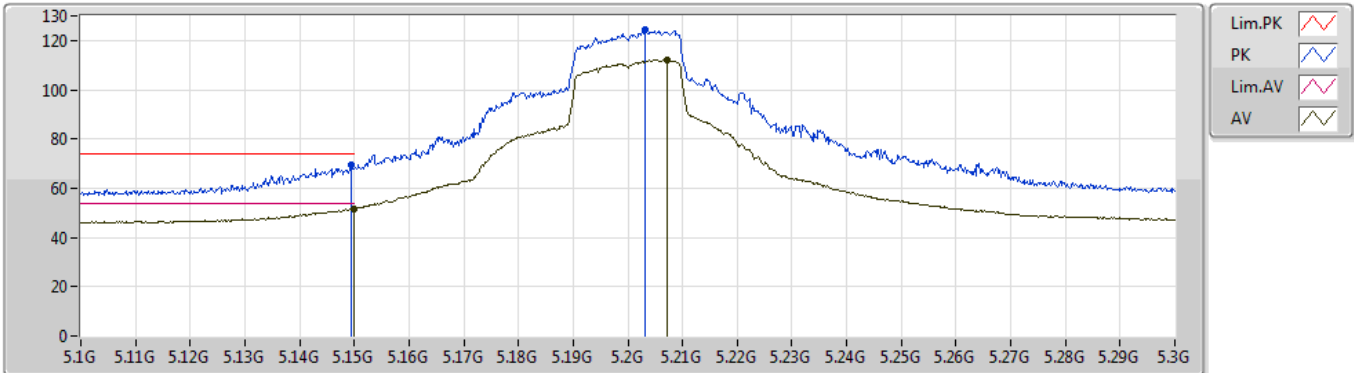
EUT Y_4TX
Setting 89
04-L-3
FSP(100142)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	10.35704G	53.24	68.20	-14.96	11.88	3	Horizontal	56	2.31	-	41.36			
PK	15.54166G	61.21	74.00	-12.79	15.35	3	Horizontal	20	2.94	-	45.86			
AV	15.54022G	47.66	54.00	-6.34	15.35	3	Horizontal	20	2.94	-	32.31			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5200MHz_TX



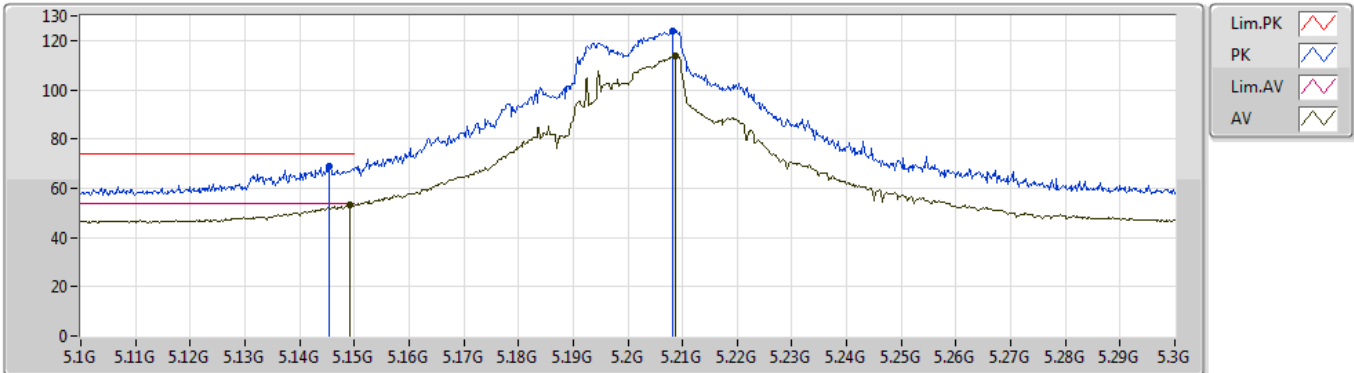
EUT Y_4TX
Setting 105
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1494G	69.57	74.00	-4.43	5.11	3	Vertical	203	1.49	-	64.46			
AV	5.15G	51.83	54.00	-2.17	5.11	3	Vertical	203	1.49	-	46.72			
PK	5.2032G	124.19	Inf	-Inf	5.12	3	Vertical	203	1.49	-	119.07			
AV	5.2072G	111.96	Inf	-Inf	5.14	3	Vertical	203	1.49	-	106.82			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5200MHz_TX



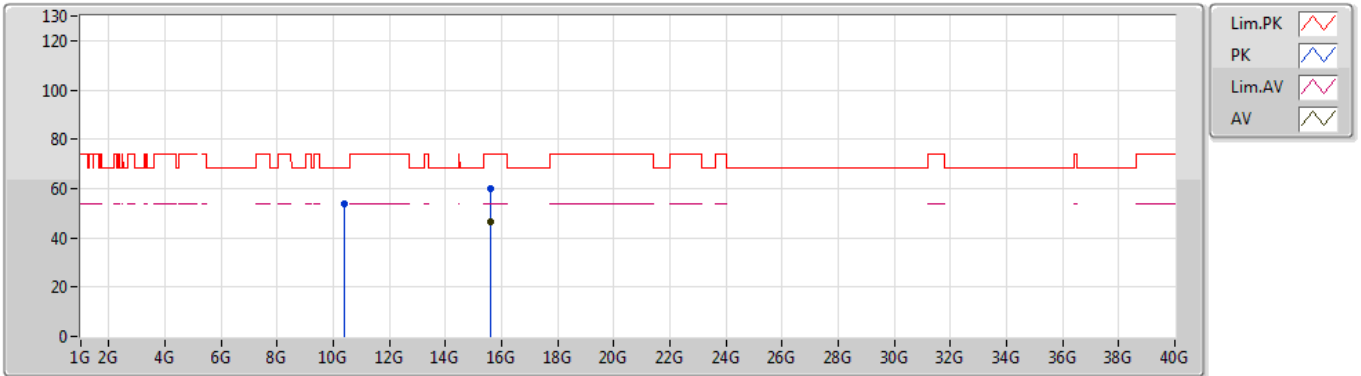
EUT Y_4TX
Setting 105
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1454G	69.10	74.00	-4.90	5.11	3	Horizontal	148	1.23	-	63.99			
AV	5.1492G	53.22	54.00	-0.78	5.11	3	Horizontal	148	1.23	-	48.11			
PK	5.2082G	124.04	Inf	-Inf	5.14	3	Horizontal	148	1.23	-	118.90			
AV	5.2086G	114.03	Inf	-Inf	5.15	3	Horizontal	148	1.23	-	108.88			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5200MHz_TX



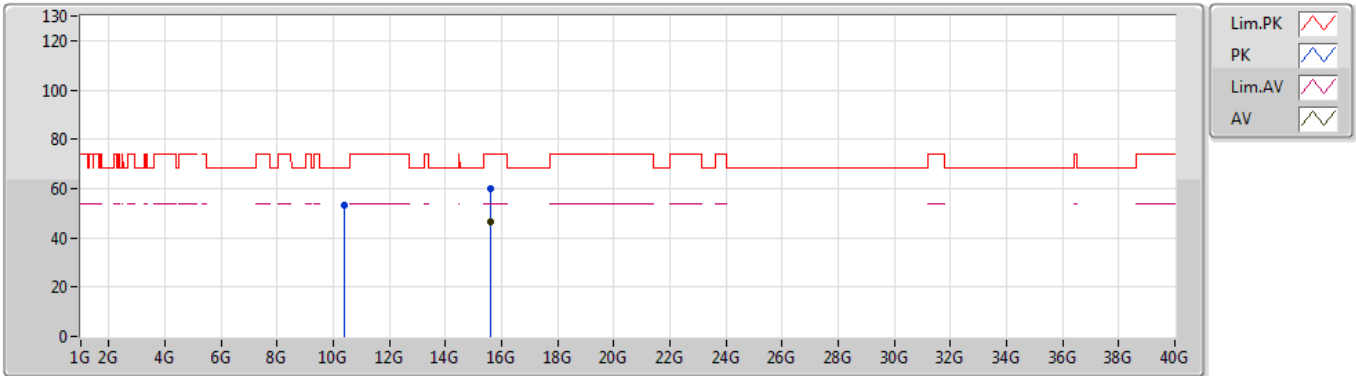
EUT_Y_4TX
Setting 105
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.40812G	53.59	68.20	-14.61	11.93	3	Vertical	292	2.34	-	41.66
PK	15.59694G	59.89	74.00	-14.11	15.30	3	Vertical	142	1.92	-	44.59
AV	15.59062G	46.59	54.00	-7.41	15.32	3	Vertical	142	1.92	-	31.27

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5200MHz_TX



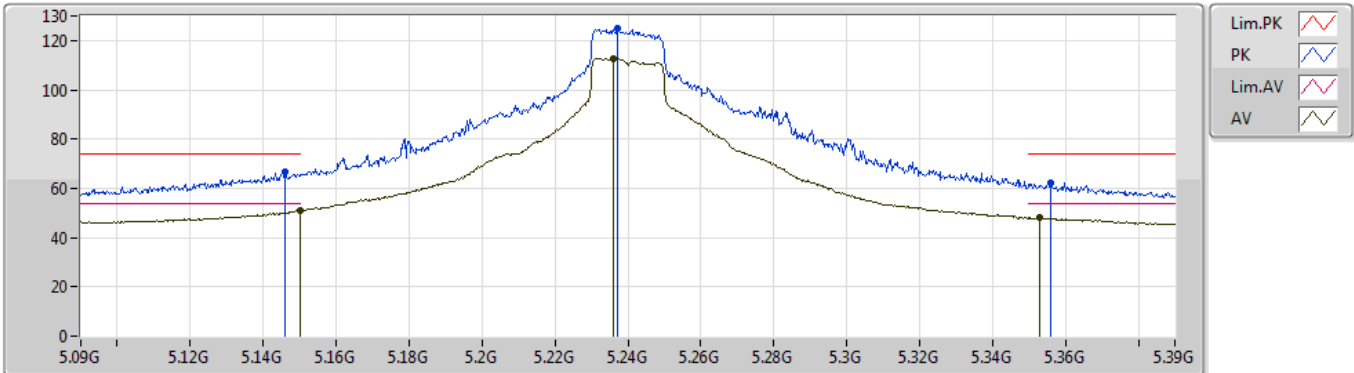
EUT_Y_4TX
Setting 105
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.40636G	53.09	68.20	-15.11	11.93	3	Horizontal	350	2.50	-	41.16			
PK	15.59806G	59.94	74.00	-14.06	15.30	3	Horizontal	183	1.61	-	44.64			
AV	15.59004G	46.45	54.00	-7.55	15.32	3	Horizontal	183	1.61	-	31.13			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5240MHz_TX



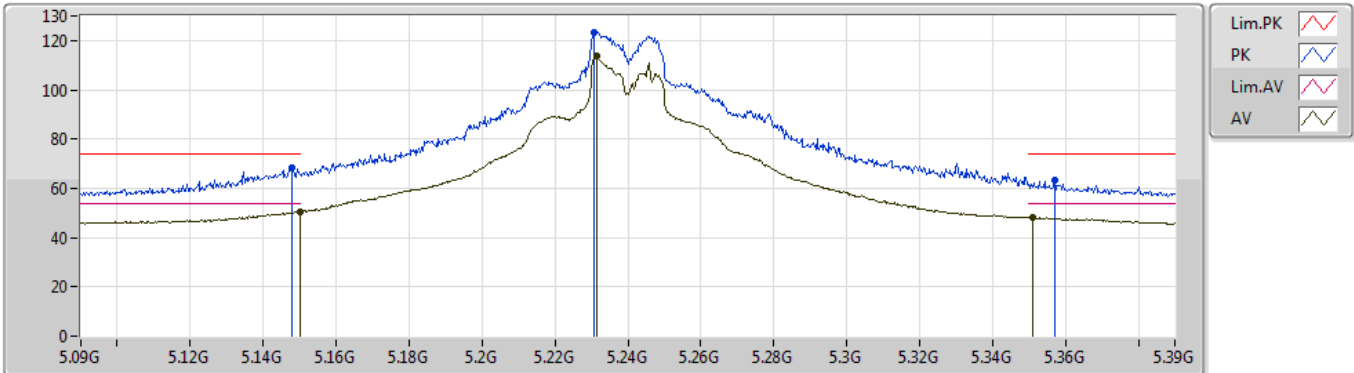
EUT Y_4TX
Setting 107
04-L-3-13
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1461G	66.42	74.00	-7.58	5.11	3	Vertical	222	2.43	-	61.31			
AV	5.15G	50.87	54.00	-3.13	5.11	3	Vertical	222	2.43	-	45.76			
PK	5.237G	124.90	Inf	-Inf	5.27	3	Vertical	222	2.43	-	119.63			
AV	5.2361G	112.77	Inf	-Inf	5.27	3	Vertical	222	2.43	-	107.50			
PK	5.3561G	62.45	74.00	-11.55	5.42	3	Vertical	222	2.43	-	57.03			
AV	5.3528G	48.09	54.00	-5.91	5.43	3	Vertical	222	2.43	-	42.66			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5240MHz_TX



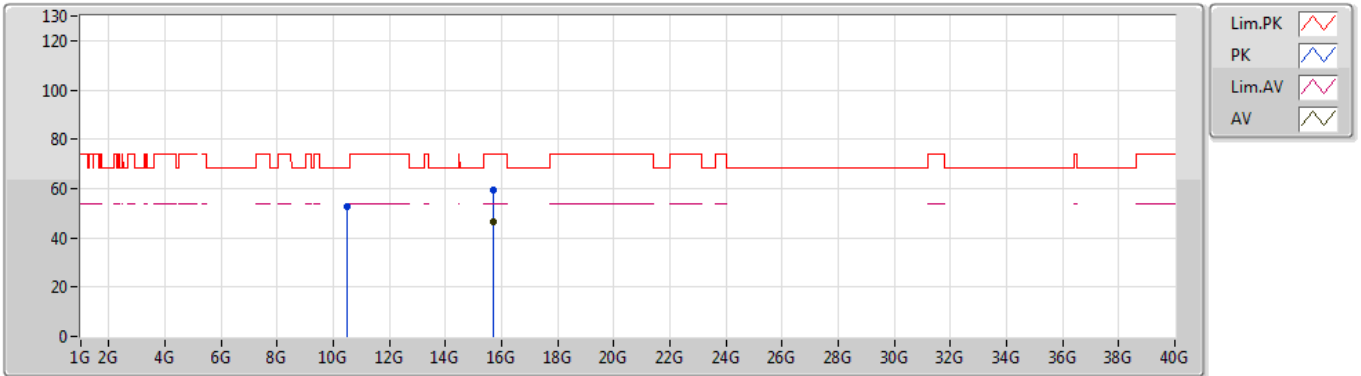
EUT Y_4TX
Setting 107
04-L-3-13
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1479G	68.29	74.00	-5.71	5.11	3	Horizontal	295	1.50	-	63.18			
AV	5.15G	50.55	54.00	-3.45	5.11	3	Horizontal	295	1.50	-	45.44			
PK	5.2307G	123.41	Inf	-Inf	5.24	3	Horizontal	295	1.50	-	118.17			
AV	5.2313G	113.90	Inf	-Inf	5.24	3	Horizontal	295	1.50	-	108.66			
PK	5.357G	63.19	74.00	-10.81	5.42	3	Horizontal	295	1.50	-	57.77			
AV	5.351G	48.19	54.00	-5.81	5.44	3	Horizontal	295	1.50	-	42.75			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5240MHz_TX



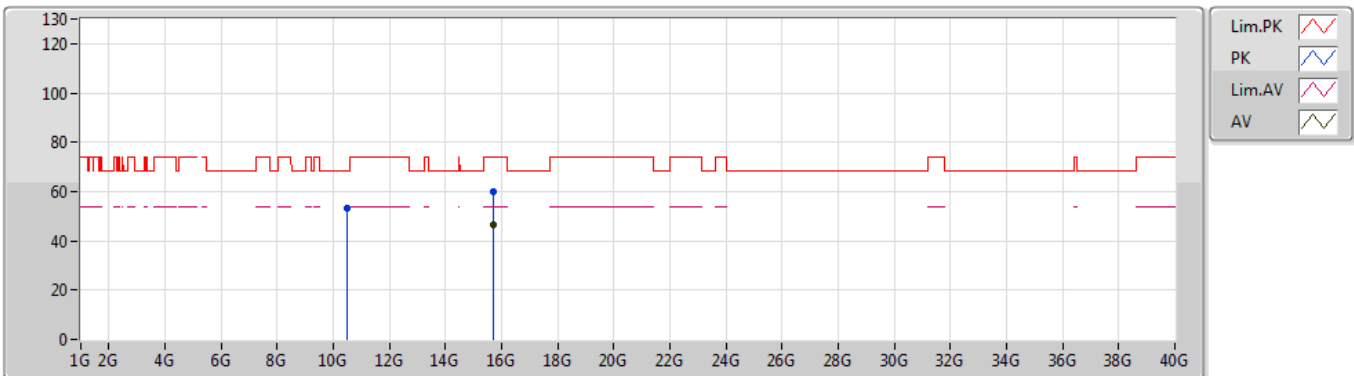
EUT_Y_4TX
Setting 107
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.48496G	52.65	68.20	-15.55	12.02	3	Vertical	147	1.16	-	40.63			
PK	15.72448G	59.49	74.00	-14.51	15.20	3	Vertical	127	1.35	-	44.29			
AV	15.71002G	46.33	54.00	-7.67	15.22	3	Vertical	127	1.35	-	31.11			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5240MHz_TX



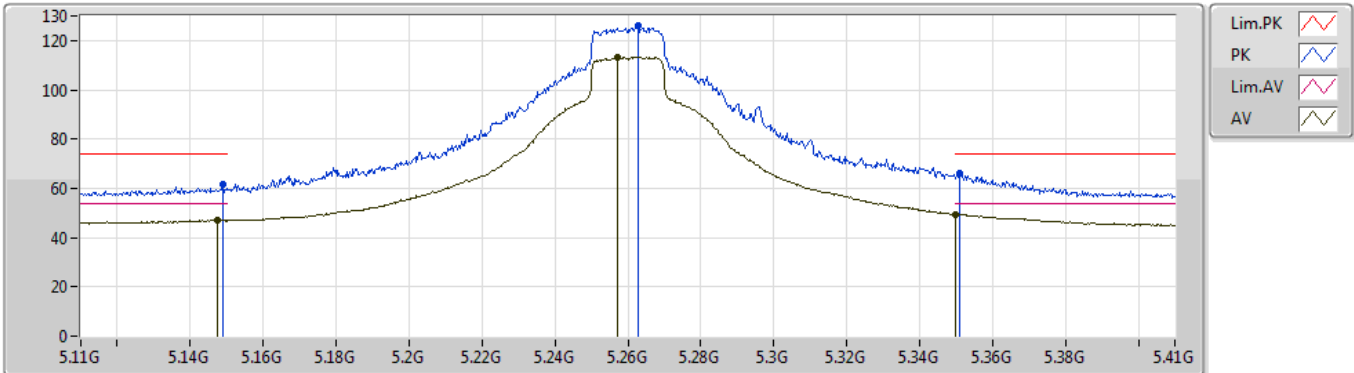
EUT Y_4TX
Setting 107
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.47318G	53.12	68.20	-15.08	11.99	3	Horizontal	196	1.17	-	41.13			
PK	15.71468G	59.76	74.00	-14.24	15.21	3	Horizontal	258	2.43	-	44.55			
AV	15.72582G	46.29	54.00	-7.71	15.20	3	Horizontal	258	2.43	-	31.09			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5260MHz_TX



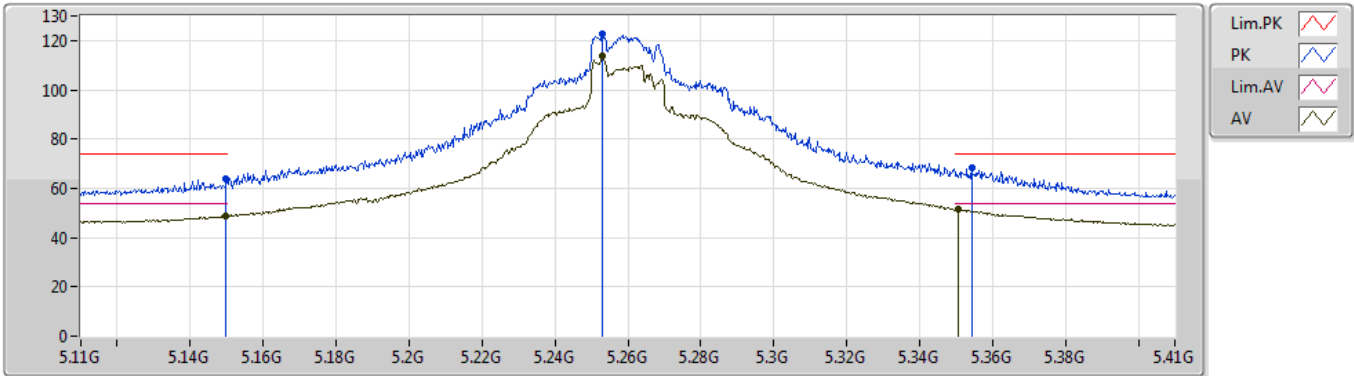
EUT Y_4TX
Setting 107
04-L-3-13
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.149G	61.46	74.00	-12.54	5.11	3	Vertical	199	1.33	-	56.35
AV	5.1475G	47.10	54.00	-6.90	5.11	3	Vertical	199	1.33	-	41.99
PK	5.263G	125.93	Inf	-Inf	5.37	3	Vertical	199	1.33	-	120.56
AV	5.257G	113.31	Inf	-Inf	5.34	3	Vertical	199	1.33	-	107.97
PK	5.3509G	66.19	74.00	-7.81	5.44	3	Vertical	199	1.33	-	60.75
AV	5.35G	49.33	54.00	-4.67	5.44	3	Vertical	199	1.33	-	43.89

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5260MHz_TX



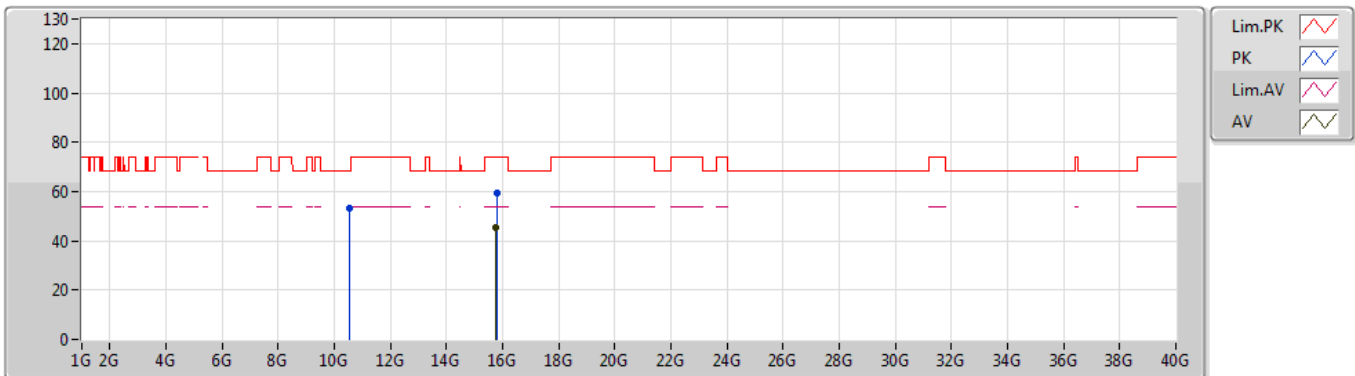
EUT_Y_4TX
Setting 107
04-L-3-13
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1499G	64.05	74.00	-9.95	5.11	3	Horizontal	295	2.99	-	58.94			
AV	5.1496G	48.95	54.00	-5.05	5.11	3	Horizontal	295	2.99	-	43.84			
PK	5.2531G	122.82	Inf	-Inf	5.33	3	Horizontal	295	2.99	-	117.49			
AV	5.2531G	113.51	Inf	-Inf	5.33	3	Horizontal	295	2.99	-	108.18			
PK	5.3542G	68.17	74.00	-5.83	5.43	3	Horizontal	295	2.99	-	62.74			
AV	5.3506G	51.35	54.00	-2.65	5.44	3	Horizontal	295	2.99	-	45.91			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

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5260MHz_TX



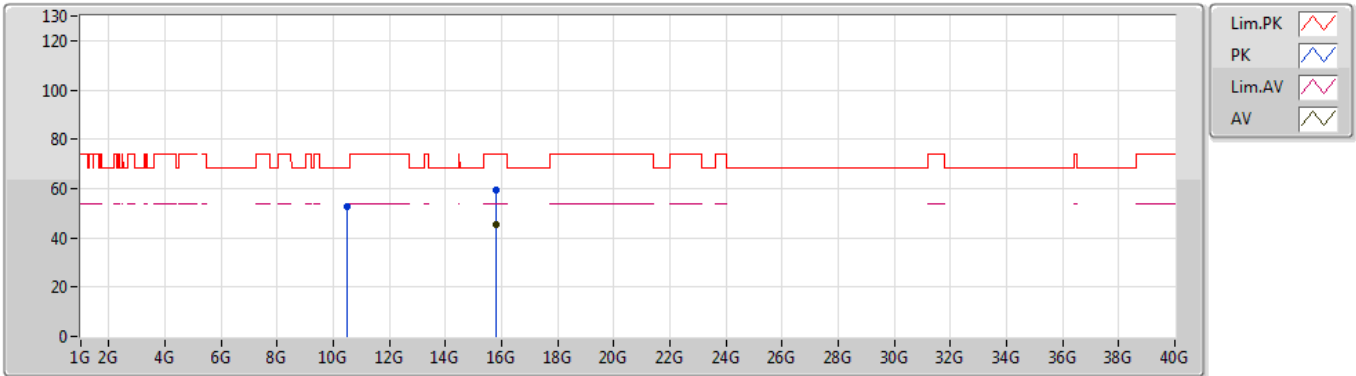
EUT Y_4TX
Setting 107
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.51922G	53.26	68.20	-14.94	12.05	3	Vertical	79	1.88	-	41.21
PK	15.78124G	59.65	74.00	-14.35	15.16	3	Vertical	222	2.46	-	44.49
AV	15.7718G	45.45	54.00	-8.55	15.17	3	Vertical	222	2.46	-	30.28

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

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5260MHz_TX



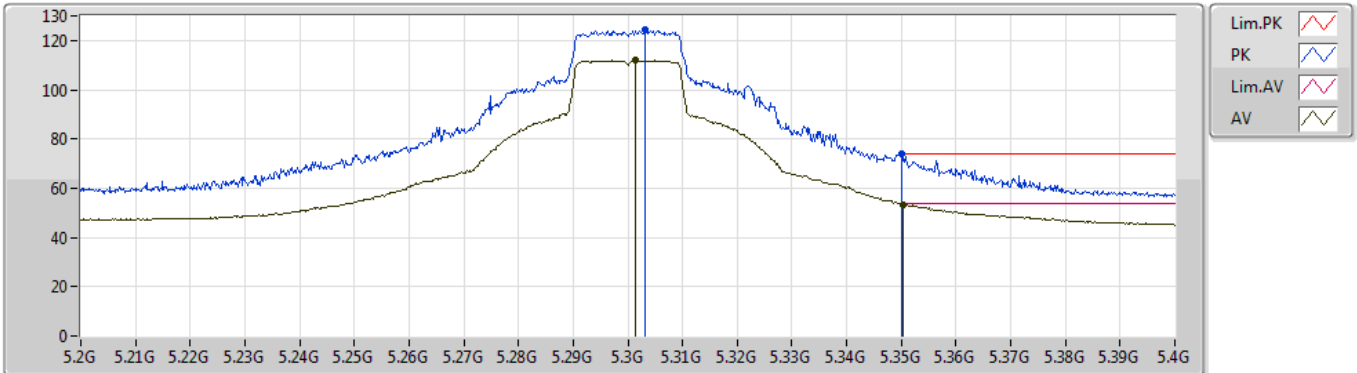
EUT_Y_4TX
Setting 107
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.51056G	52.89	68.20	-15.31	12.03	3	Horizontal	93	2.36	-	40.86			
PK	15.78306G	59.13	74.00	-14.87	15.16	3	Horizontal	214	1.74	-	43.97			
AV	15.78926G	45.48	54.00	-8.52	15.15	3	Horizontal	214	1.74	-	30.33			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5300MHz_TX



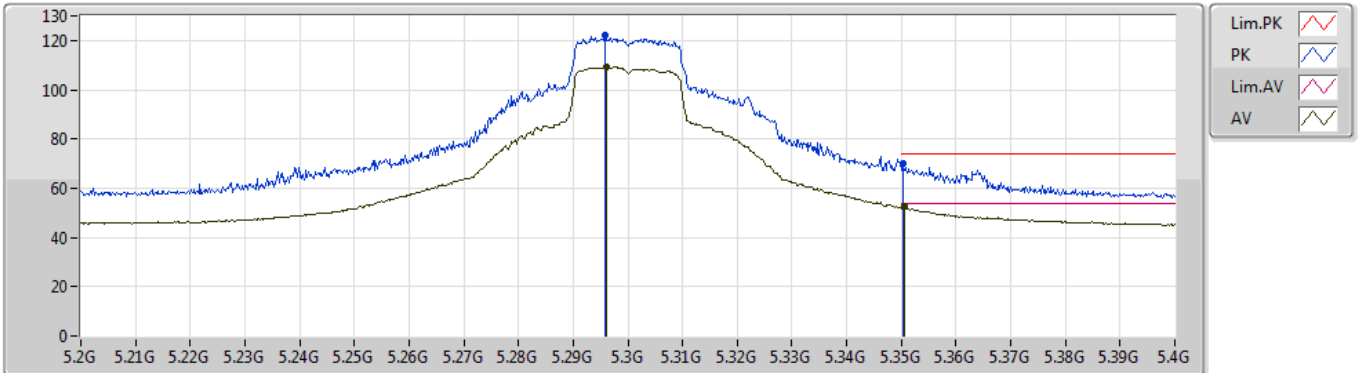
EUT Y_4TX
Setting 101
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3032G	124.46	Inf	-Inf	5.52	3	Vertical	223	1.59	-	118.94			
AV	5.3014G	111.86	Inf	-Inf	5.53	3	Vertical	223	1.59	-	106.33			
PK	5.35G	73.71	74.00	-0.29	5.44	3	Vertical	223	1.59	-	68.27			
AV	5.3502G	53.44	54.00	-0.56	5.44	3	Vertical	223	1.59	-	48.00			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

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5300MHz_TX



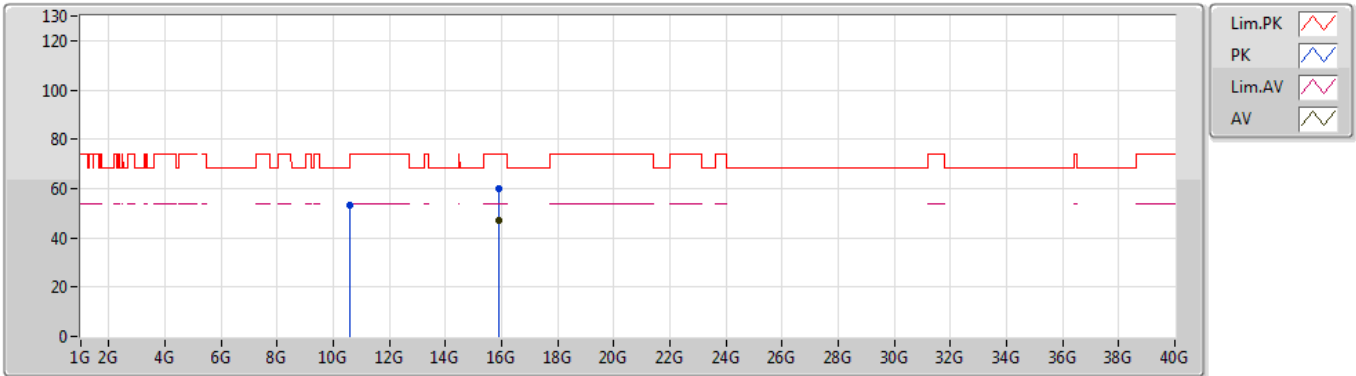
EUT Y_4TX
Setting 101
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.2958G	122.27	Inf	-Inf	5.51	3	Horizontal	98	1.50	-	116.76			
AV	5.296G	109.23	Inf	-Inf	5.51	3	Horizontal	98	1.50	-	103.72			
PK	5.3502G	70.11	74.00	-3.89	5.44	3	Horizontal	98	1.50	-	64.67			
AV	5.3506G	52.43	54.00	-1.57	5.44	3	Horizontal	98	1.50	-	46.99			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

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5300MHz_TX



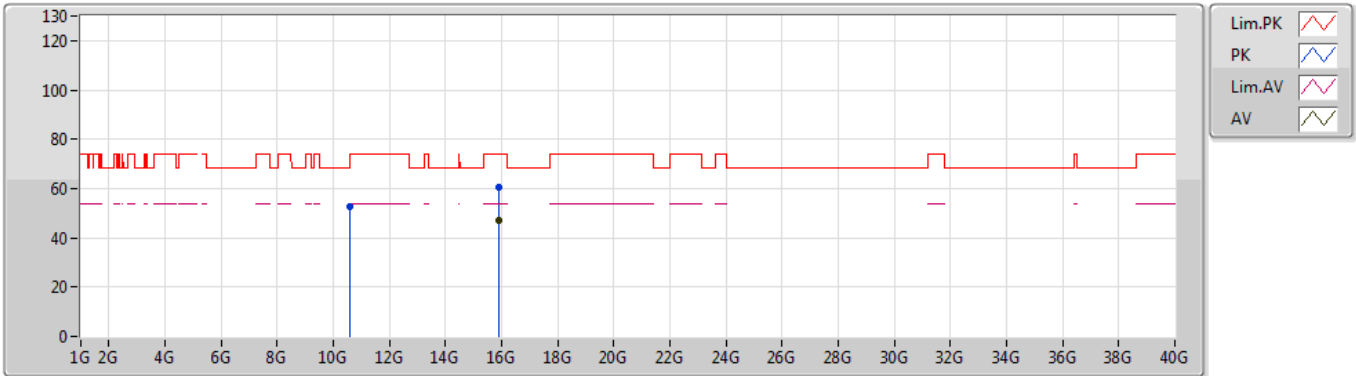
EUT Y_4TX
Setting 101
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.5973G	53.08	68.20	-15.12	12.13	3	Vertical	325	2.40	-	40.95			
PK	15.9016G	60.13	74.00	-13.87	15.07	3	Vertical	118	2.20	-	45.06			
AV	15.90298G	46.87	54.00	-7.13	15.07	3	Vertical	118	2.20	-	31.80			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

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5300MHz_TX



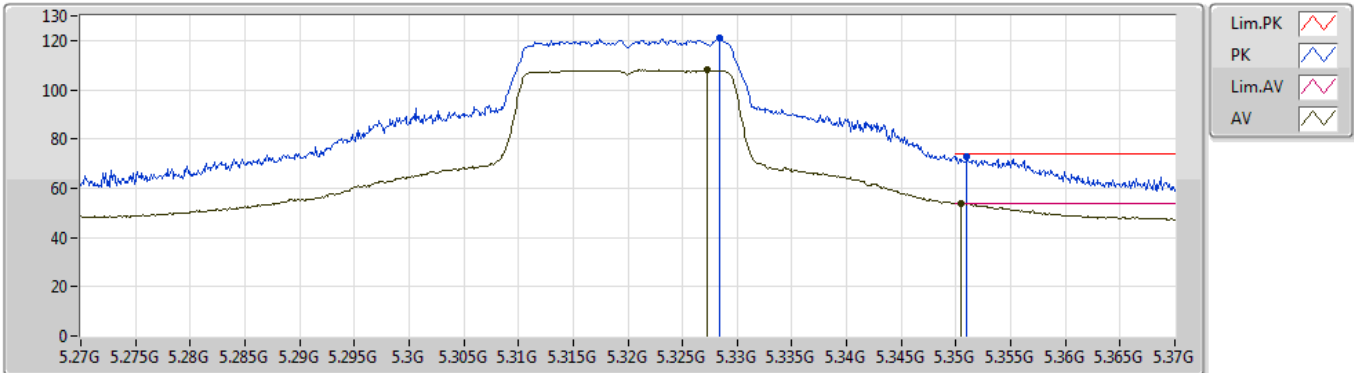
EUT Y_4TX
Setting 101
04-L-3
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.59608G	52.89	68.20	-15.31	12.12	3	Horizontal	59	1.00	-	40.77			
PK	15.90548G	60.52	74.00	-13.48	15.06	3	Horizontal	348	1.44	-	45.46			
AV	15.90962G	46.87	54.00	-7.13	15.05	3	Horizontal	348	1.44	-	31.82			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/10/2019

5320MHz_TX



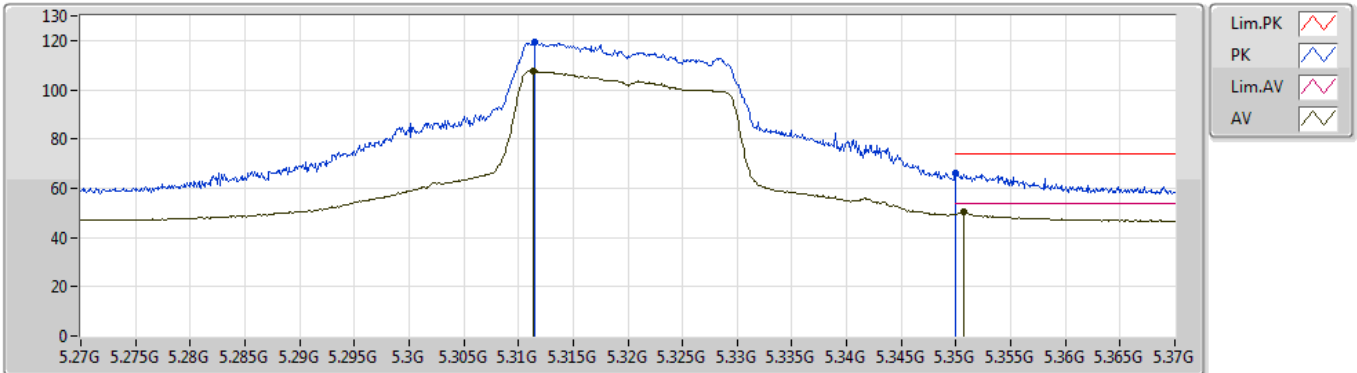
EUT Y_4TX
Setting 85
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3284G	120.83	Inf	-Inf	5.47	3	Vertical	224	1.81	-	115.36			
AV	5.3273G	107.91	Inf	-Inf	5.48	3	Vertical	224	1.81	-	102.43			
PK	5.351G	73.00	74.00	-1.00	5.44	3	Vertical	224	1.81	-	67.56			
AV	5.3504G	53.96	54.00	-0.04	5.44	3	Vertical	224	1.81	-	48.52			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

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5320MHz_TX



EUT Y_4TX
Setting 85
04-L-3-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3115G	119.09	Inf	-Inf	5.51	3	Horizontal	106	1.50	-	113.58			
AV	5.3113G	107.57	Inf	-Inf	5.51	3	Horizontal	106	1.50	-	102.06			
PK	5.35G	66.03	74.00	-7.97	5.44	3	Horizontal	106	1.50	-	60.59			
AV	5.3507G	50.29	54.00	-3.71	5.44	3	Horizontal	106	1.50	-	44.85			