

FCC Test Report

FCC ID : Q9DAPEX0565567
Equipment : Wireless Access Point
Brand Name : aruba \ Hewlett Packard Enterprise
Model Name : APEX0565,APEX0567
Applicant : Hewlett Packard Enterprise Company
3333 Scott Blvd Santa Clara, CA. 95054
Manufacturer : Hewlett Packard Enterprise Company
3333 Scott Blvd Santa Clara, CA. 95054
Standard : 47 CFR FCC Part 15.407

The product was received on Apr. 30, 2020, and testing was started from May 14, 2020 and completed on Jul. 21, 2020. 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 test results in this 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: Allen Lin

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

Report No.	Version	Description	Issued Date
FR042903AN	01	Initial issue of report	Jul. 31, 2020
FR042903AN	02	1. The Model Name was changed 2. The Antenna Information was updated 3. Photographs of EUT was updated This report is the latest version replacing for the report issued on Jul. 31, 2020	Aug. 07, 2020
FR042903AN	03	Change to outdoor use only This report is the latest version replacing for the report issued on Aug. 07, 2020	Aug. 21, 2020
FR042903AN	04	Add indoor use Use worst case data-outdoor data This report is the latest version replacing for the report issued on Aug. 21, 2020	Aug. 24, 2020



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	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:
According to the applicant's requirements, The Beamforming Function refer as "Letter of Beamforming Declaration".

Reviewed by: Sam Tsai

Report Producer: Jenny Yang



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]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Note:

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM,

1024QAM modulation. ♦ BWch is the nominal channel bandwidth. ♦ The resource unit of HEW 20, HEW 40, HEW 80 only support full loading.

1.1.2 Antenna Information
Sample 1

Ant.	Brand	Model Name	Antenna Type	Connector
1	HL Technologies	N/A	Dipole (omnidirectional)	MMCX
2	HL Technologies	N/A	Dipole (omnidirectional)	MMCX
3	HL Technologies	N/A	PIFA	Mini Murata

Ant.	Gain (dBi)					
	2.4G		5G		BT	Zigbee
	Vertical polarized	Horizontal polarized	Vertical polarized	Horizontal polarized		
1	-	3.2 dBi	-	5.4 dBi	-	-
2	3.2 dBi	-	5.4 dBi	-	-	-
3	-	-	-	-	3.3 dBi	3.3 dBi

Sample 2

Ant.	Brand	Model Name	Antenna Type	Connector
4	Shanghai Amphenol Airwave Communication Electronics Co., Ltd.	N/A	Dipole (directivity)	MMCX
5	Shanghai Amphenol Airwave Communication Electronics Co., Ltd.	N/A	Dipole (directivity)	MMCX
6	Shanghai Amphenol Airwave Communication Electronics Co., Ltd.	N/A	monopole	Mini Murata

Ant.	Gain (dBi)					
	2.4G		5G		BT	Zigbee
	+45 degree	-45 degree	+45 degree	-45 degree		
4	-	6.8 dBi	-	7.1 dBi	-	-
5	6.8 dBi	-	7.1 dBi	-	-	-
6	-	-	-	-	3 dBi	3 dBi

Ant.	Elevation angle above 30 degrees Gain (dBi)	
	5G	
1~2	3.3	
4~5	7.1	



Note 1: The EUT has six antennas.

Note 2: The antenna for each mode is cross polarized.

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax mode (2TX/2RX)

Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5) could transmit/receive simultaneously.

Cross-polarized antenna combination is Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5).

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant. 3 (Ant. 6) can be used as transmitting/receiving antenna.

For 5GHz function:

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

Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5) could transmit/receive simultaneously.

Cross-polarized antenna combination is Ant. 1 (Ant. 4) and Ant. 2 (Ant. 5).

For Zigbee function:

Only Ant. 3 (Ant. 6) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Identify EUT				
FW Version	RVAB-A65 V1.0			
Operational Condition				
EUT Power Type	From PoE			
EUT Function	<input checked="" type="checkbox"/>	Outdoor AP	<input checked="" type="checkbox"/>	Indoor AP
	<input type="checkbox"/>	Fixed P2P AP	<input type="checkbox"/>	Outdoor Client
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:	...		
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:			
<input type="checkbox"/>	Other:			

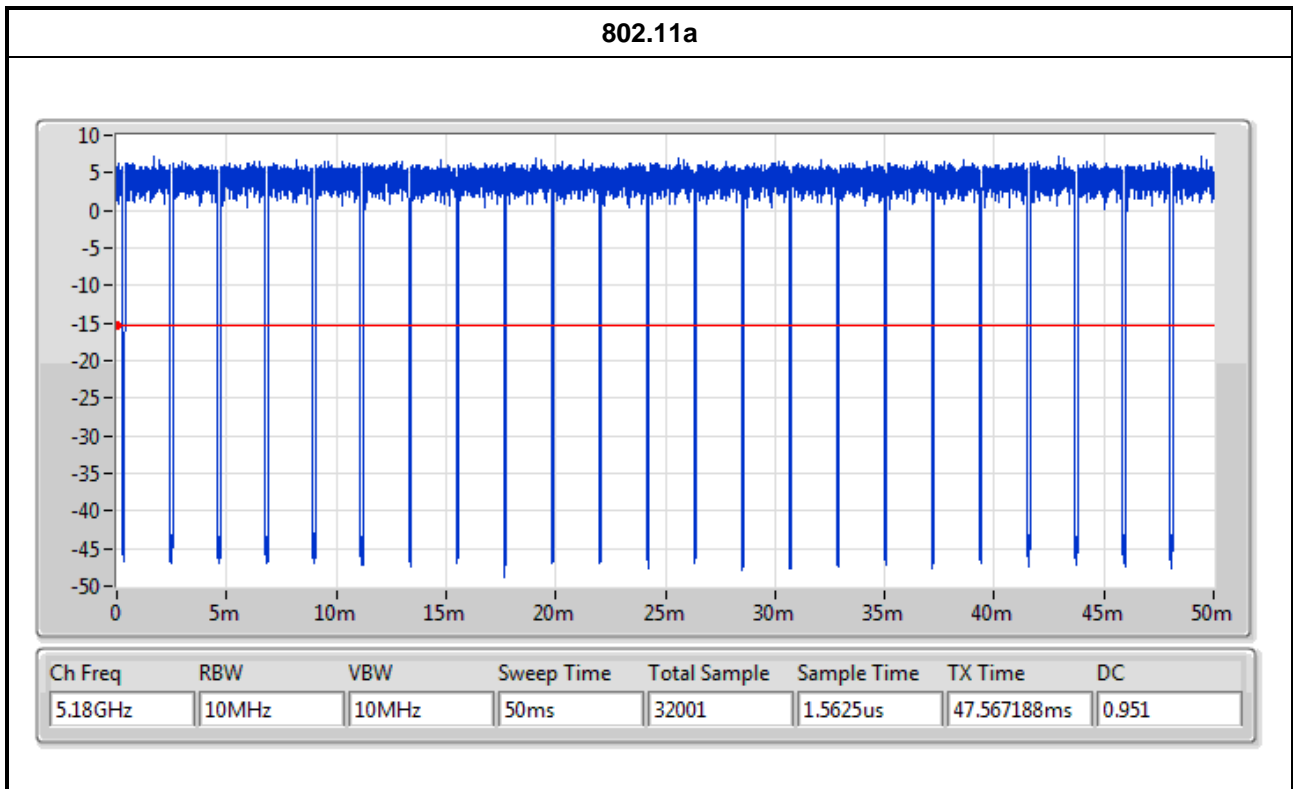


1.1.4 Mode Test Duty Cycle

Sample 1

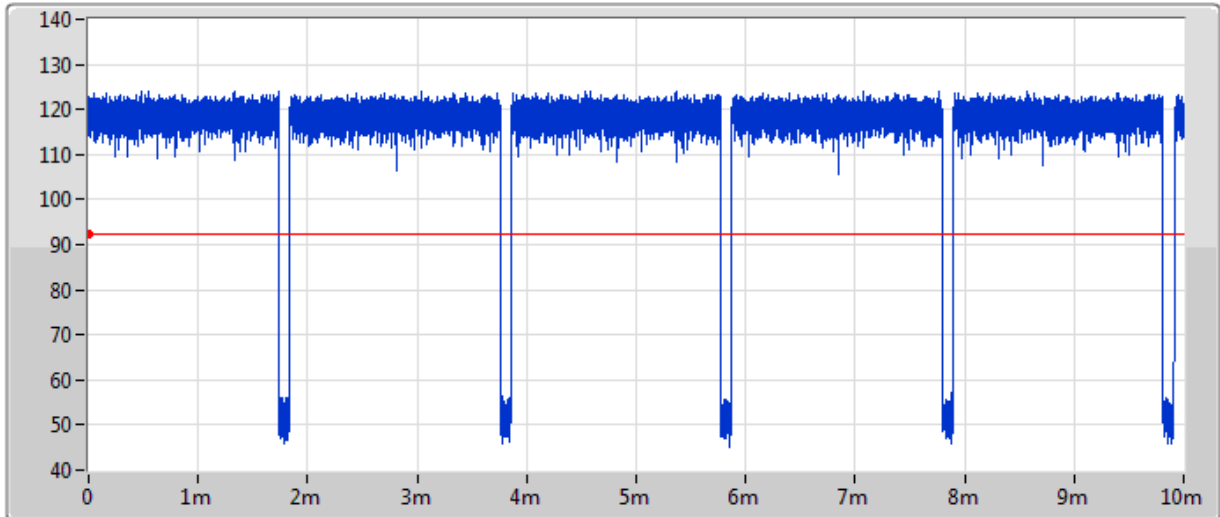
Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.951	0.22	2.066m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.951	0.22	1.921m	1k
802.11n HT40_Nss1,(MCS0)_2TX	0.911	0.4	944.375u	3k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.986	0.06	1.93m	10
802.11ac VHT40_Nss1,(MCS0)_2TX	0.972	0.12	954.688u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.943	0.25	462.5u	3k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.98	0.09	1.489m	10
802.11ax HEW40_Nss1,(MCS0)_2TX	0.963	0.16	775u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.929	0.32	403.125u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



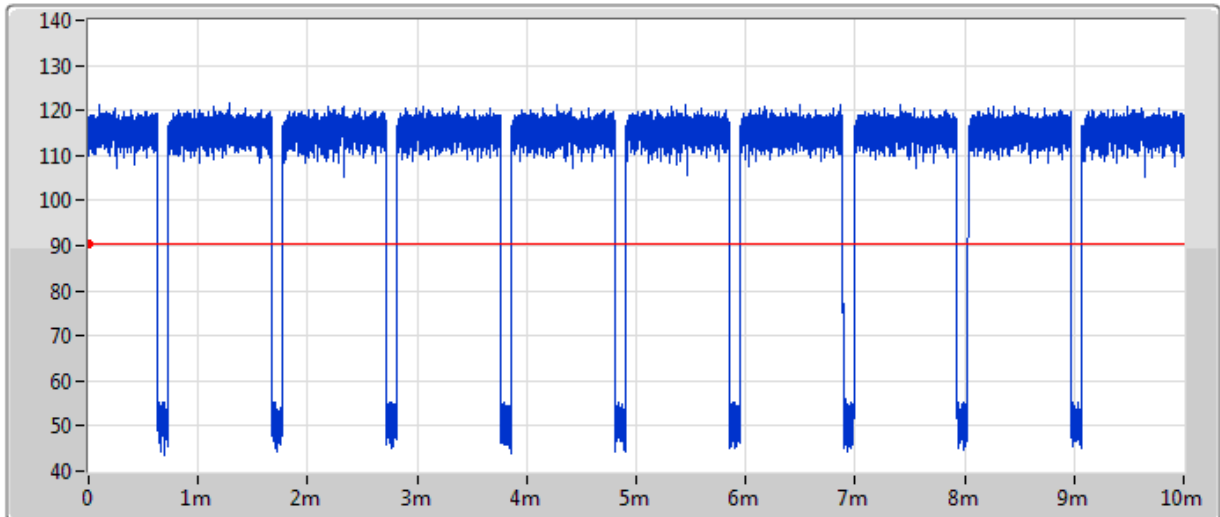


802.11n HT20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	10ms	32001	312.5ns	9.505938ms	0.951

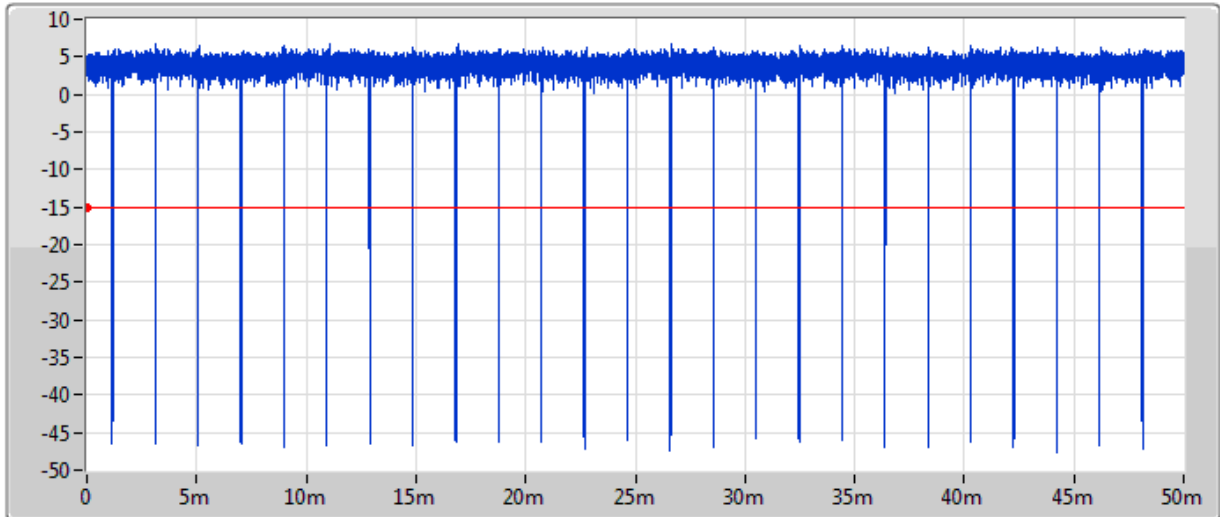
802.11n HT40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.19GHz	10MHz	10MHz	10ms	32001	312.5ns	9.109688ms	0.911

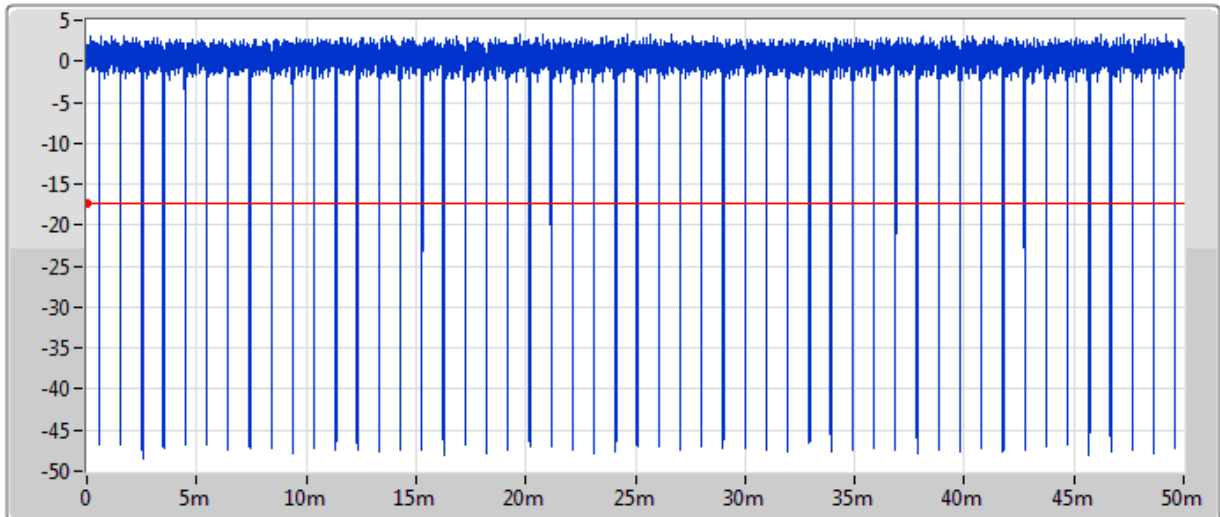


802.11ac VHT20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	50ms	32001	1.5625us	49.307812ms	0.986

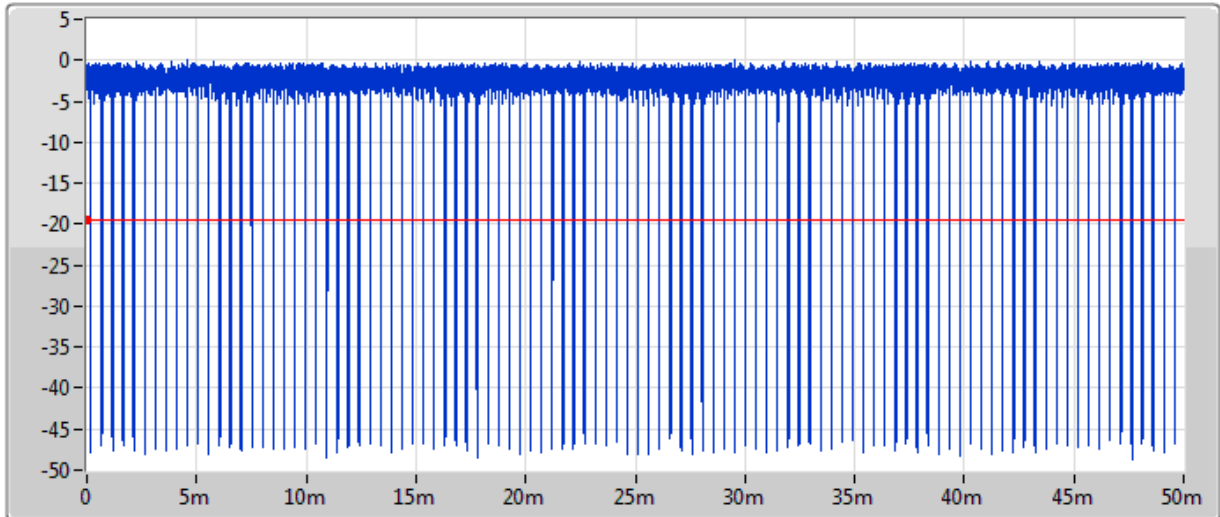
802.11ac VHT40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.19GHz	10MHz	10MHz	50ms	32001	1.5625us	48.579688ms	0.972

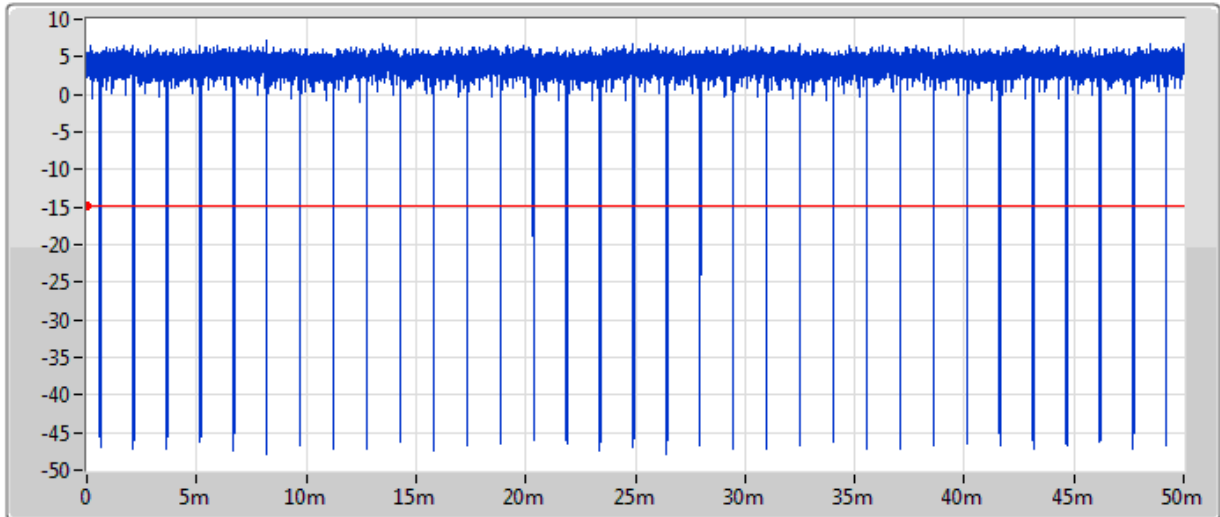


802.11ac VHT80



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.21GHz	10MHz	10MHz	50ms	32001	1.5625us	47.175ms	0.943

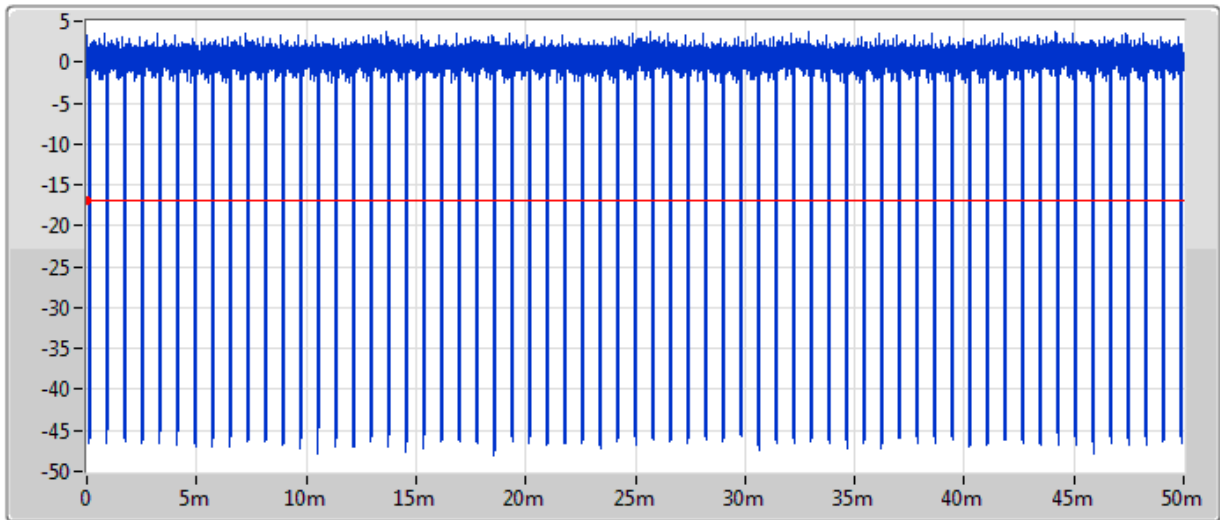
802.11ax HEW20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	50ms	32001	1.5625us	49.001563ms	0.98

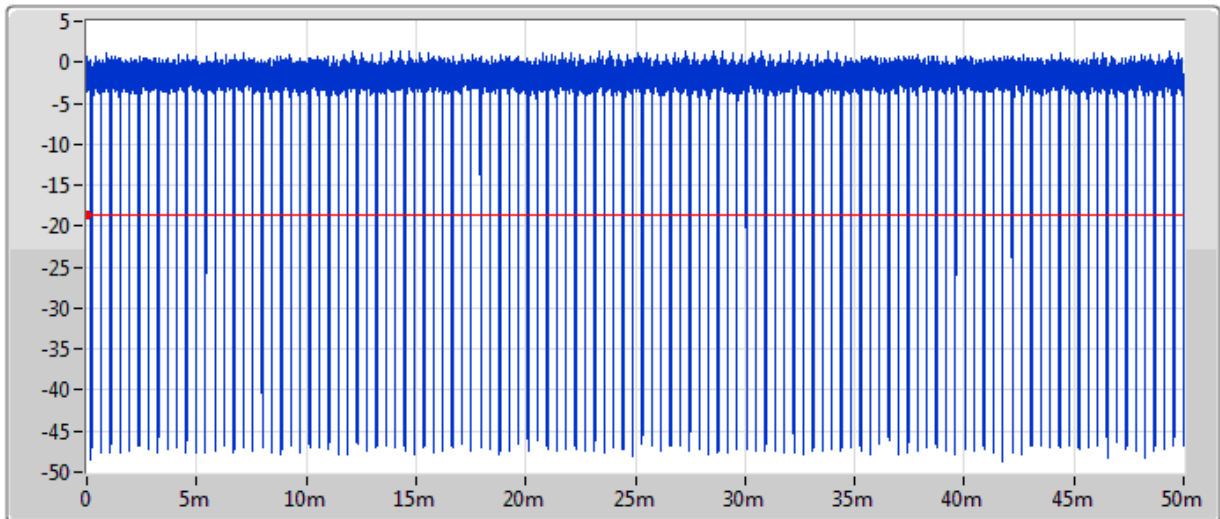


802.11ax HEW40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	50ms	32001	1.5625us	48.145313ms	0.963

802.11ax HEW80



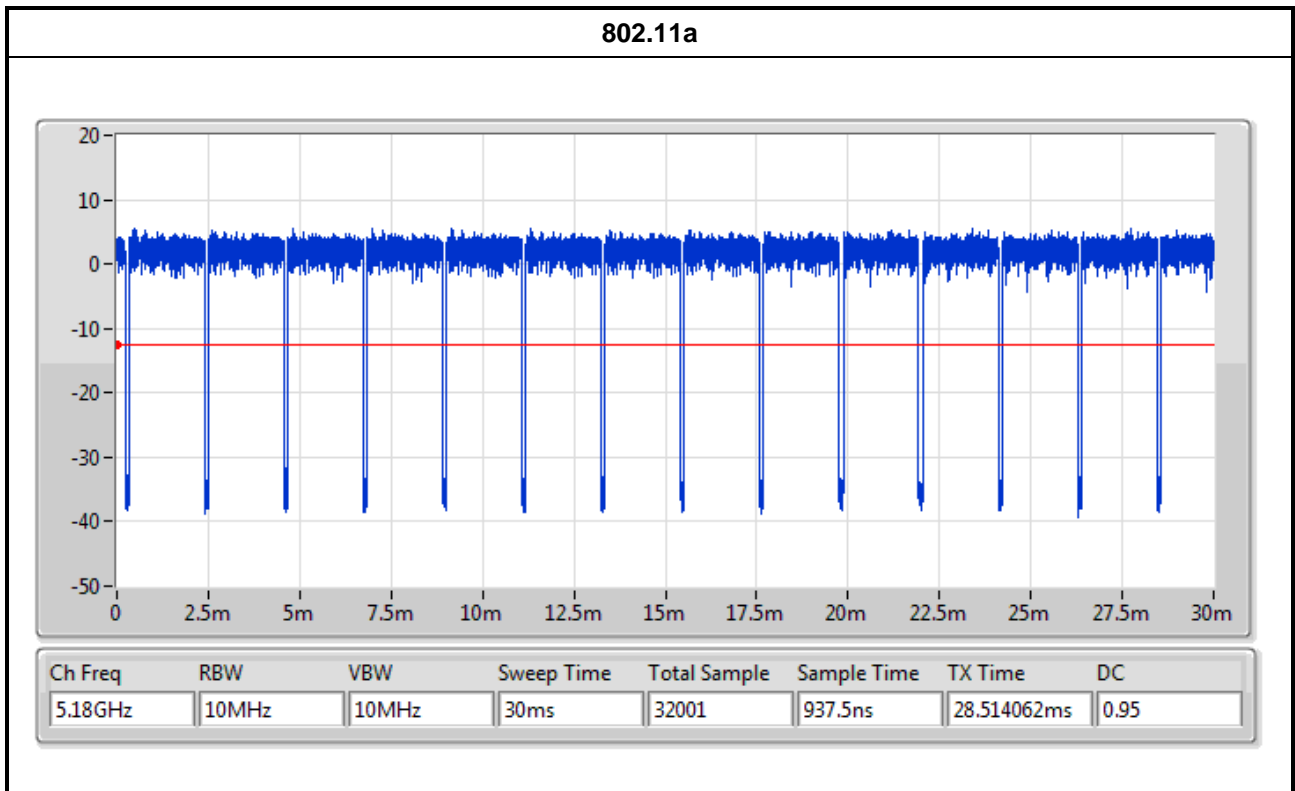
Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.21GHz	10MHz	10MHz	50ms	32001	1.5625us	46.464063ms	0.929



Sample 2

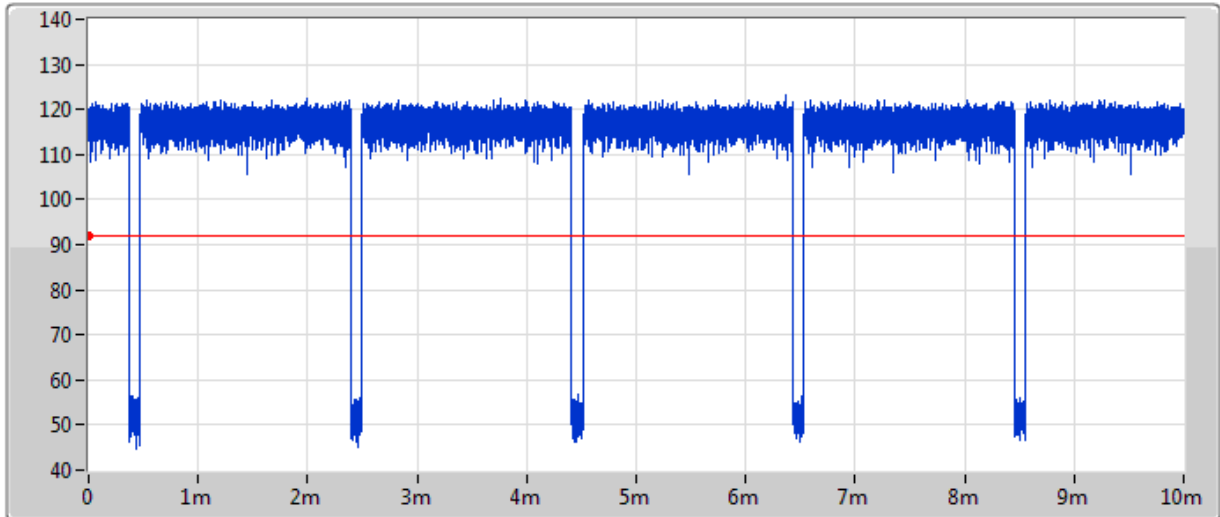
Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.95	0.22	2.065m	1k
802.11n HT20_Nss1,(MCS0)_2TX	0.95	0.22	1.92m	1k
802.11n HT40_Nss1,(MCS0)_2TX	0.911	0.4	944.375u	3k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.985	0.07	1.929m	10
802.11ac VHT40_Nss1,(MCS0)_2TX	0.971	0.13	953.437u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.942	0.26	461.25u	3k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.979	0.09	1.489m	1k
802.11ax HEW40_Nss1,(MCS0)_2TX	0.962	0.16	773.437u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.927	0.32	402.187u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



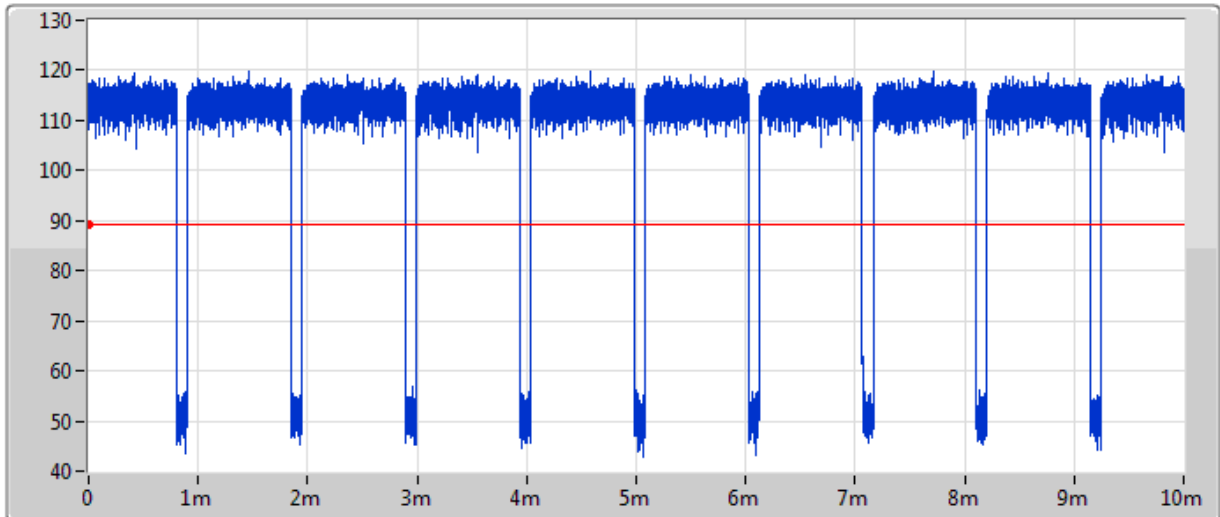


802.11n HT20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	10ms	32001	312.5ns	9.505ms	0.95

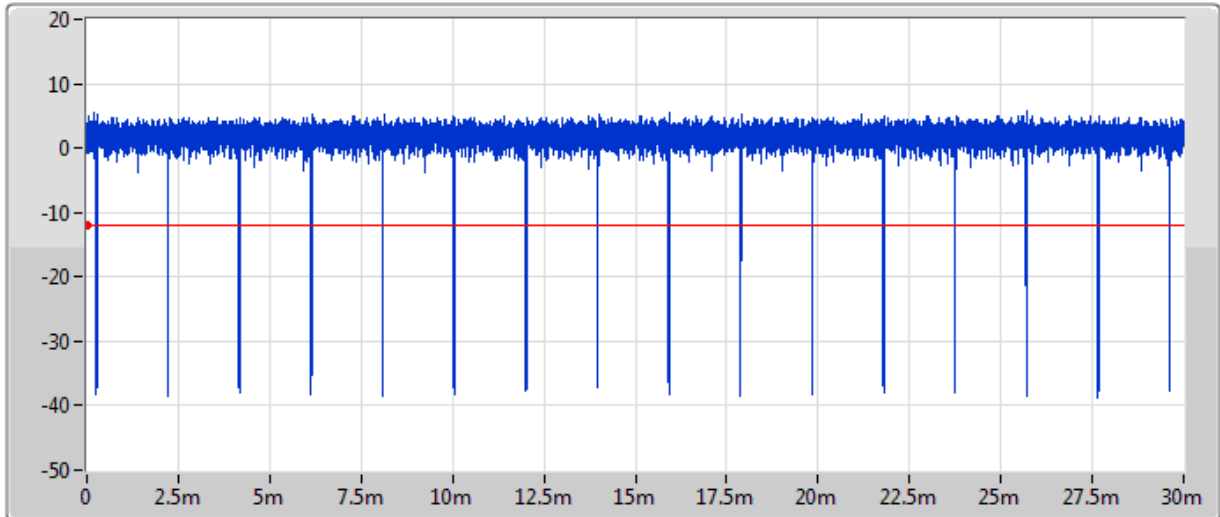
802.11n HT40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.19GHz	10MHz	10MHz	10ms	32001	312.5ns	9.11ms	0.911

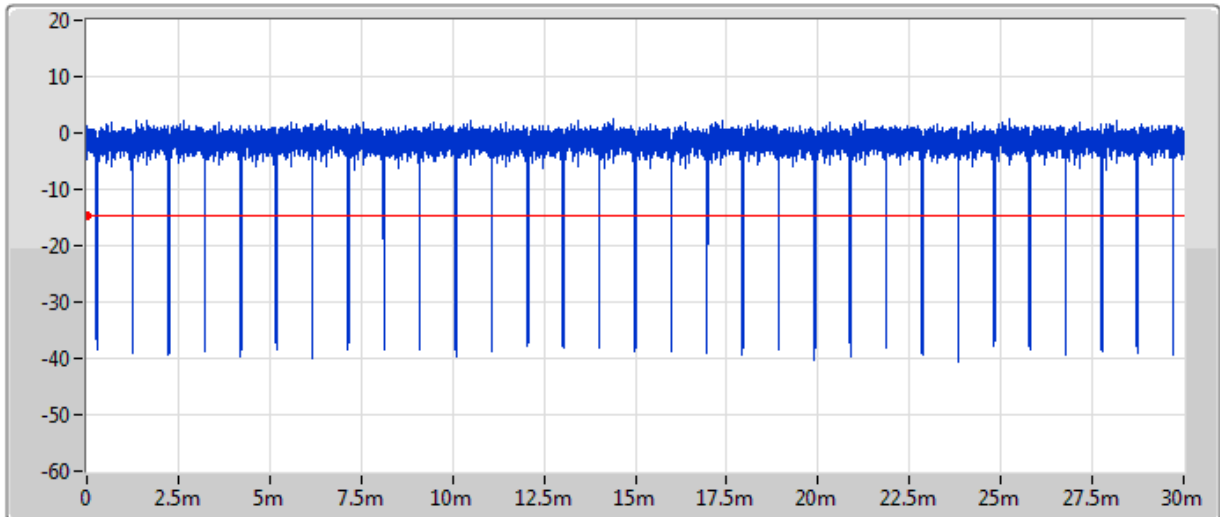


802.11ac VHT20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	30ms	32001	937.5ns	29.544375ms	0.985

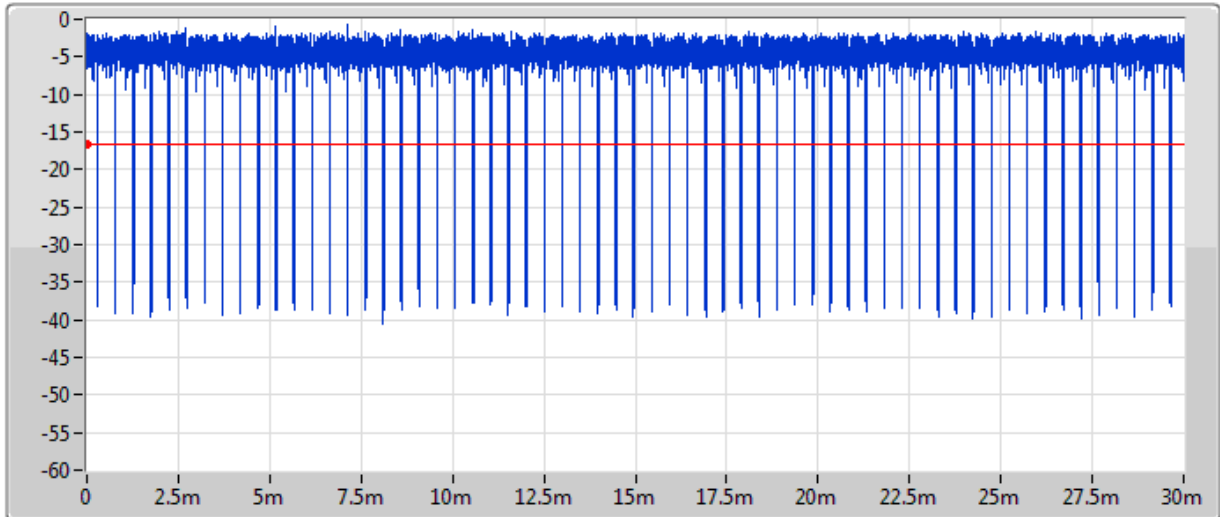
802.11ac VHT40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.19GHz	10MHz	10MHz	30ms	32001	937.5ns	29.116875ms	0.971

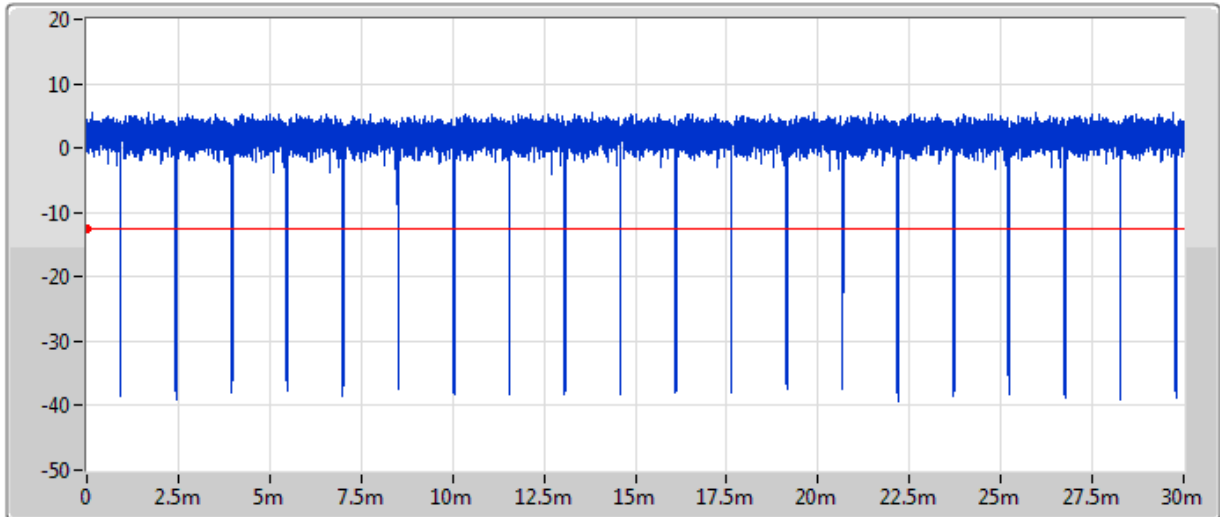


802.11ac VHT80



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.21GHz	10MHz	10MHz	30ms	32001	937.5ns	28.274062ms	0.942

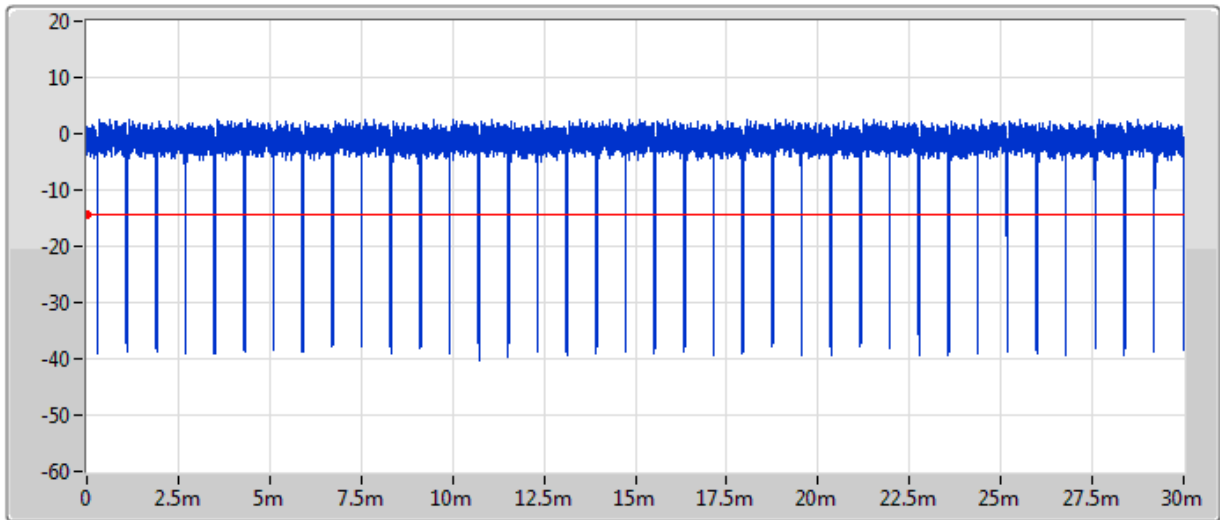
802.11ax HEW20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.18GHz	10MHz	10MHz	30ms	32001	937.5ns	29.38125ms	0.979

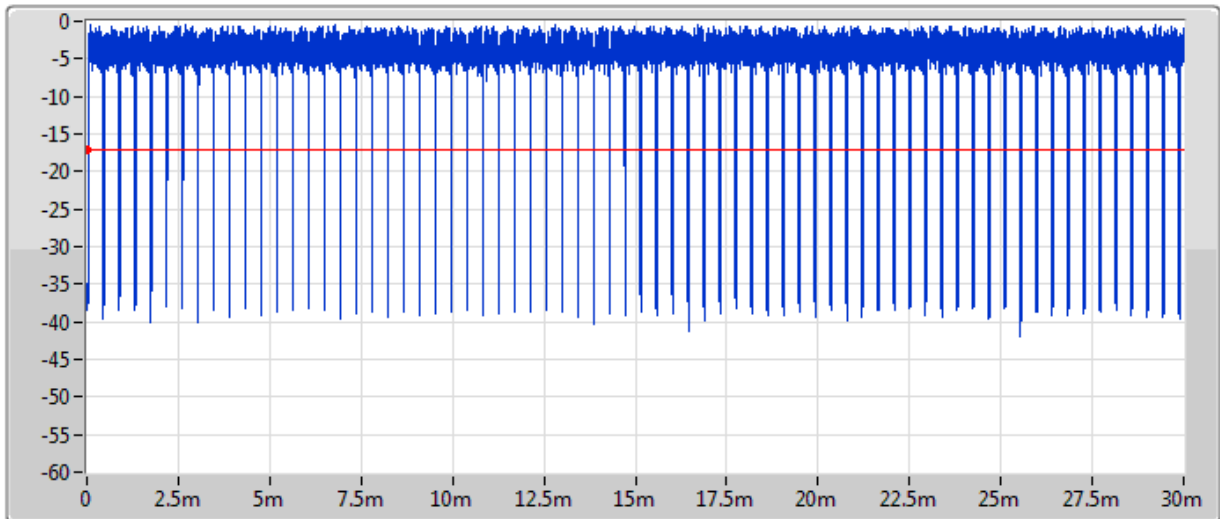


802.11ax HEW40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.19GHz	10MHz	10MHz	30ms	32001	937.5ns	28.86375ms	0.962

802.11ax HEW80



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.21GHz	10MHz	10MHz	30ms	32001	937.5ns	27.824062ms	0.927

1.1.5 Table for Multiple Listing

Sample Number	Model Name	Description
1	APEX0565	There are two Samples for EUT. The only difference between Sample 1 and Sample 2 is the Antenna. For detailed specifications, please refer to section 1.1.2.
2	APEX0567	

1.2 Testing Applied 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
- ◆ KDB 789033 D02 v02r01

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

- ◆ KDB 662911 D01 v02r01
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	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
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		
<input checked="" type="checkbox"/>	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL : 886-3-318-0787 FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.		

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	21.4~23.2°C / 52~ 57%	03/Jun/2020~ 04/Jun/2020
RF Conducted	TH01-HY	Barry Hsiao	22.1~25.9°C / 54~60%	15/May/2020~ 30/Jun/2020
Radiated	03CH09-HY	Daniel Hsu	22.3~23.7°C / 53~ 59%	14/May/2020~ 21/Jul/2020



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	MTool_3_1_0_5
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Indoor, Outdoor Sample 1

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	70
5200MHz	70
5240MHz	71
5745MHz	92
5785MHz	92
5825MHz	93
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	68
5200MHz	69
5240MHz	70
5745MHz	90
5785MHz	91
5825MHz	92
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	68
5230MHz	69
5755MHz	91
5795MHz	91
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	68
5200MHz	69
5240MHz	70
5745MHz	90



Mode	Power Setting
5785MHz	91
5825MHz	92
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	68
5230MHz	69
5755MHz	91
5795MHz	91
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	69
5775MHz	85
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	68
5200MHz	69
5240MHz	70
5745MHz	90
5785MHz	91
5825MHz	92
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	68
5230MHz	69
5755MHz	91
5795MHz	91
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	69
5775MHz	85



Indoor, Outdoor Sample 2

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	54
5200MHz	54
5240MHz	55
5745MHz	87
5785MHz	88
5825MHz	89
802.11n HT20_Nss1,(MCS0)_2TX	-
5180MHz	53
5200MHz	53
5240MHz	54
5745MHz	85
5785MHz	87
5825MHz	87
802.11n HT40_Nss1,(MCS0)_2TX	-
5190MHz	54
5230MHz	54
5755MHz	86
5795MHz	87
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	53
5200MHz	53
5240MHz	54
5745MHz	85
5785MHz	87
5825MHz	87
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	54
5230MHz	54
5755MHz	86
5795MHz	87
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	53
5775MHz	83






Mode	Power Setting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	53
5200MHz	53
5240MHz	54
5745MHz	85
5785MHz	87
5825MHz	87
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	54
5230MHz	54
5755MHz	86
5795MHz	87
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	53
5775MHz	83

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	PoE Mode; Sample 1
2	PoE Mode; Sample 2
Note. Outdoor configuration was tested and found to be the worst case and measured during the test.	

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
Note. Outdoor configuration was tested and found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	PoE Mode; Sample 1		
2	PoE Mode; Sample 2		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	V
Note. Outdoor configuration was tested and found to be the worst case and measured during the test.			

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA042903 for Co-location RF Exposure Evaluation.	

2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	Microsemi	PD-9001GO/AC-INTL	-	Note 1
2	Ground Cable	SPORTON	SPORTON	-	-
3	RJ-45 Cable	Power Sync	CAT-6E-10	-	-

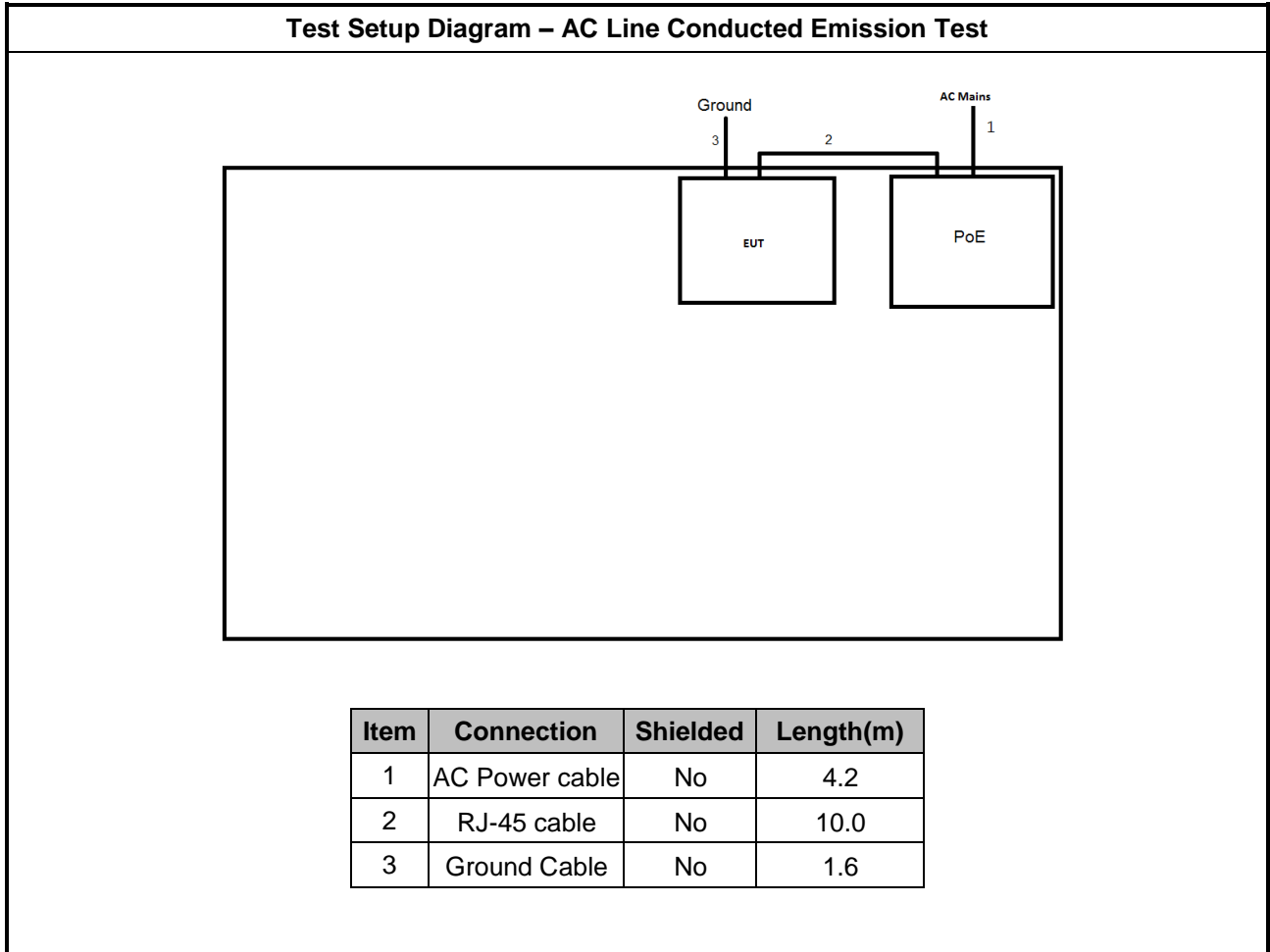
Note 1: Support equipment No.1 was provided by customer.

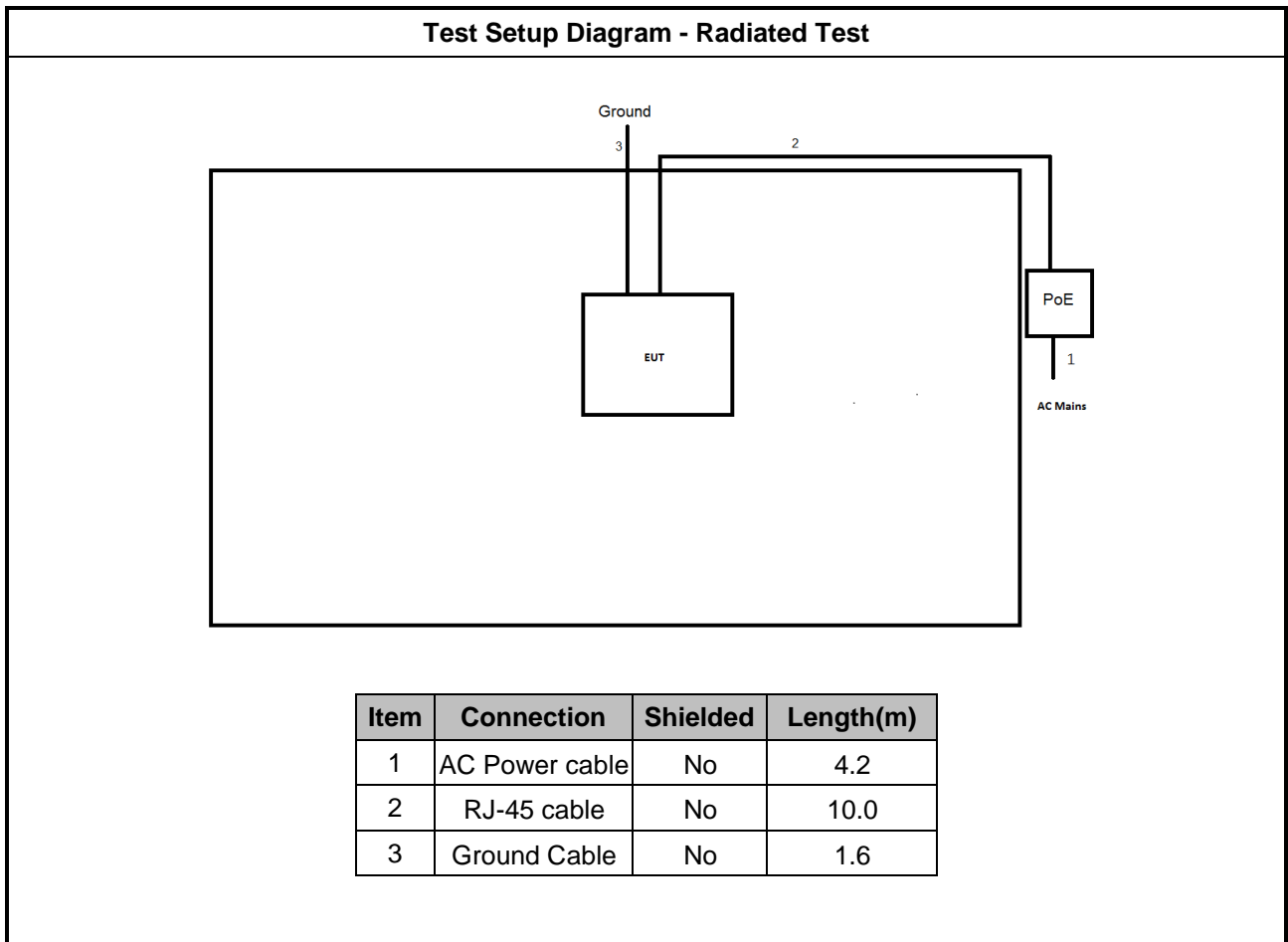
Support Equipment –Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment –Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Ground Cable	SPORTON	SPORTON	-	-
2	RJ-45 Cable	Power Sync	CAT-6E-10	-	-
3	PoE	Microsemi	PD-9001GO/AC-INTL	-	Note 1 / Remote

Note 1: Support equipment No.3 was provided by customer.

2.5 Test Setup Diagram







3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

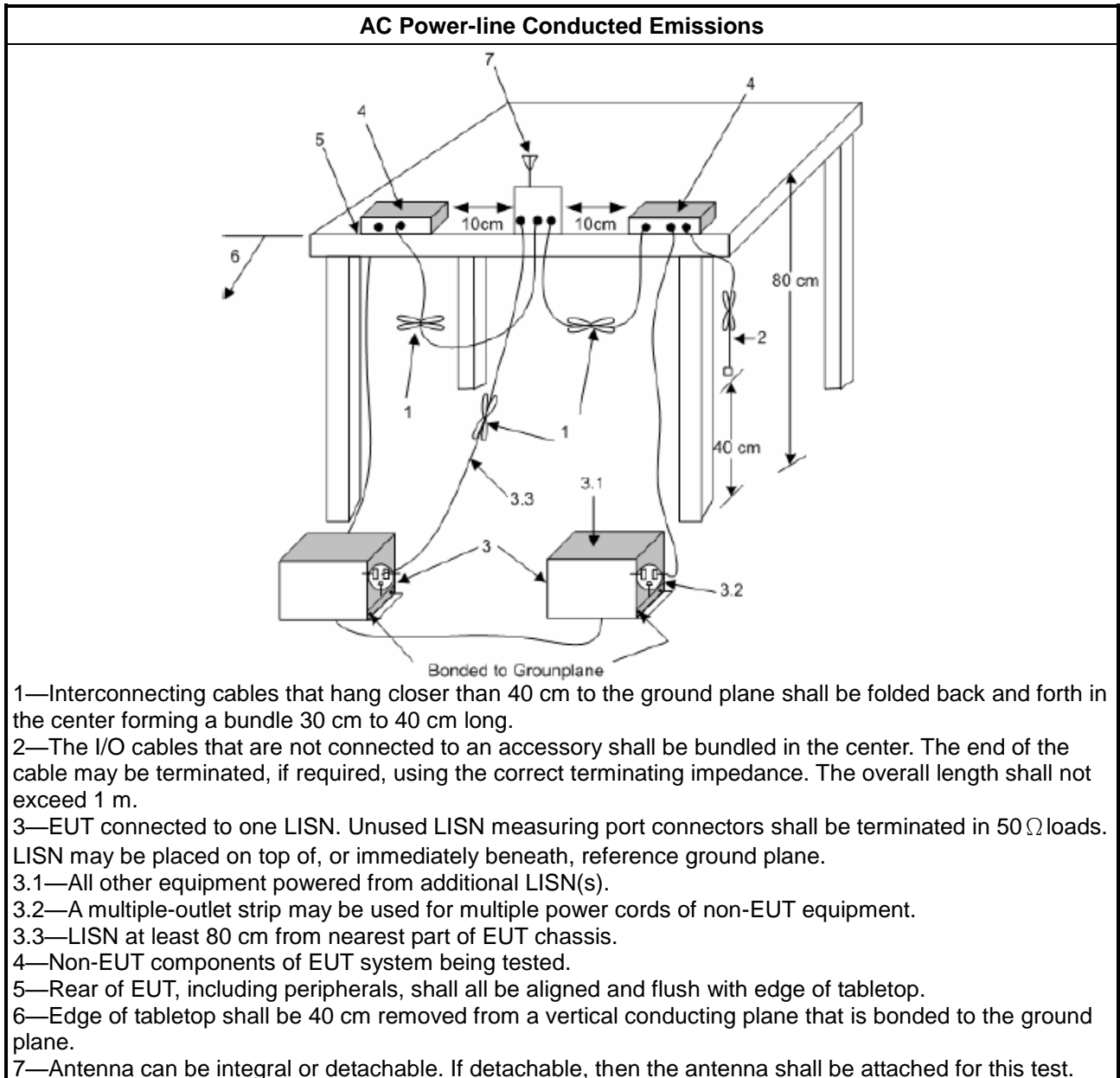
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	For the 5.25-5.35 GHz band, N/A
<input type="checkbox"/>	For the 5.47-5.725 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

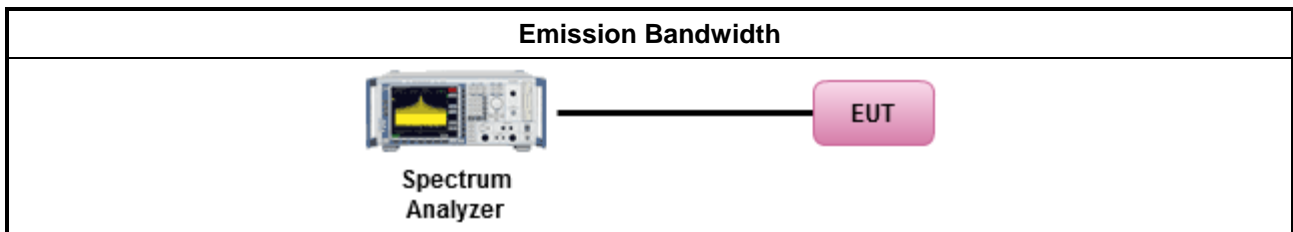
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ 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 $\leq 125mW$ [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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

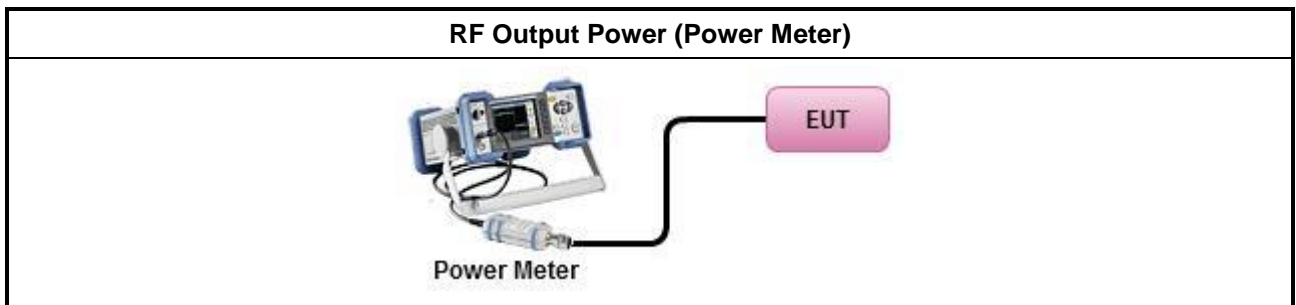
3.3.2 Measuring Instruments

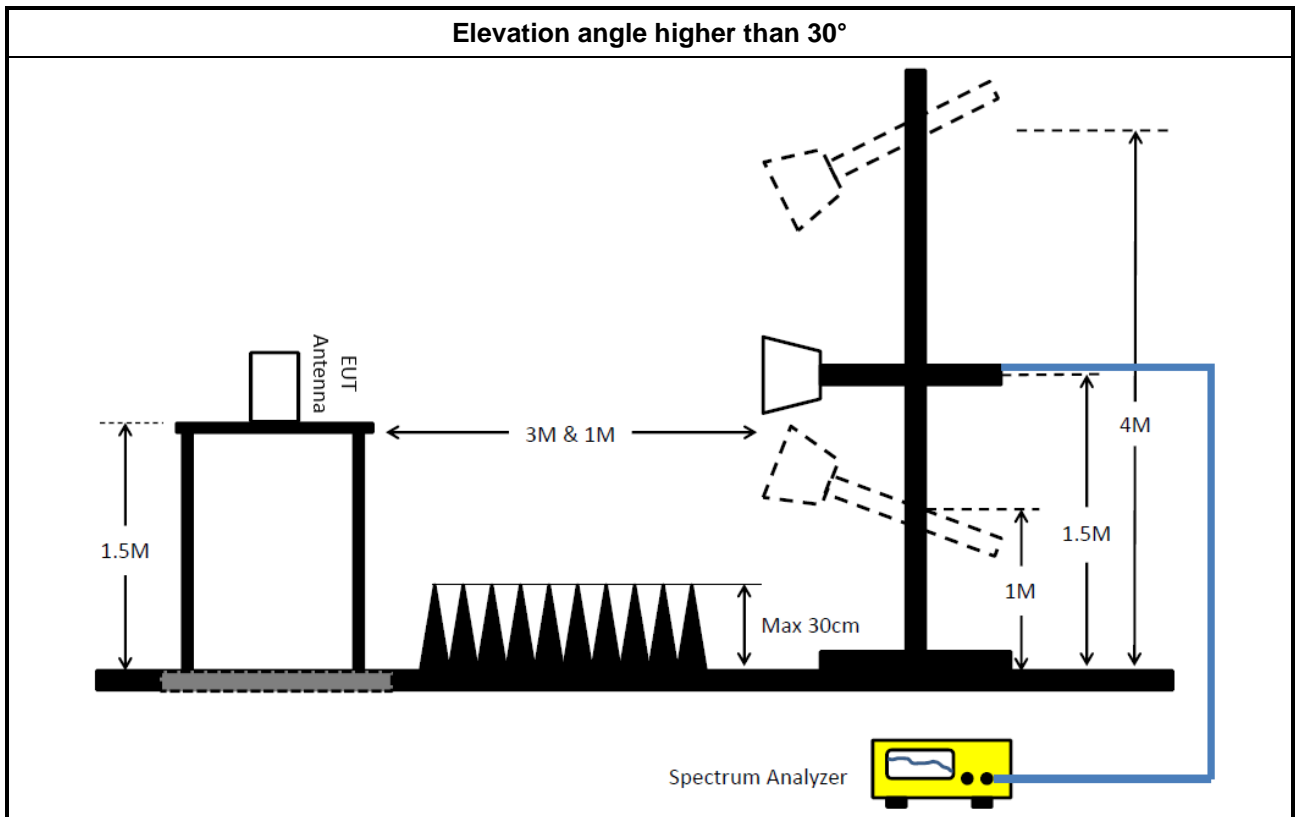
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Duty cycle $\geq 98\%$
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
<input type="checkbox"/>	Refer as 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
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
	<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as 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.
	<ul style="list-style-type: none"> 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]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup





3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.3.6 Test Result of MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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 $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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.
<p>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</p> <p>G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

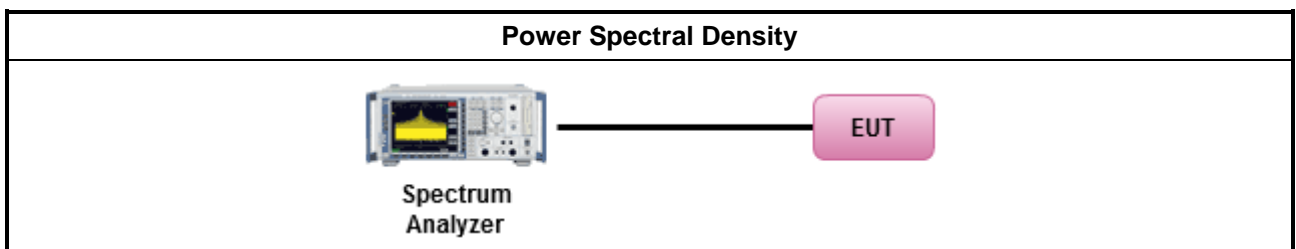
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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: 	
<input type="checkbox"/>	Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
Duty cycle ≥ 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
	<ul style="list-style-type: none"> ▪ Measure and sum the spectra across the outputs. Refer as 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.
	<ul style="list-style-type: none"> ▪ 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]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated 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	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

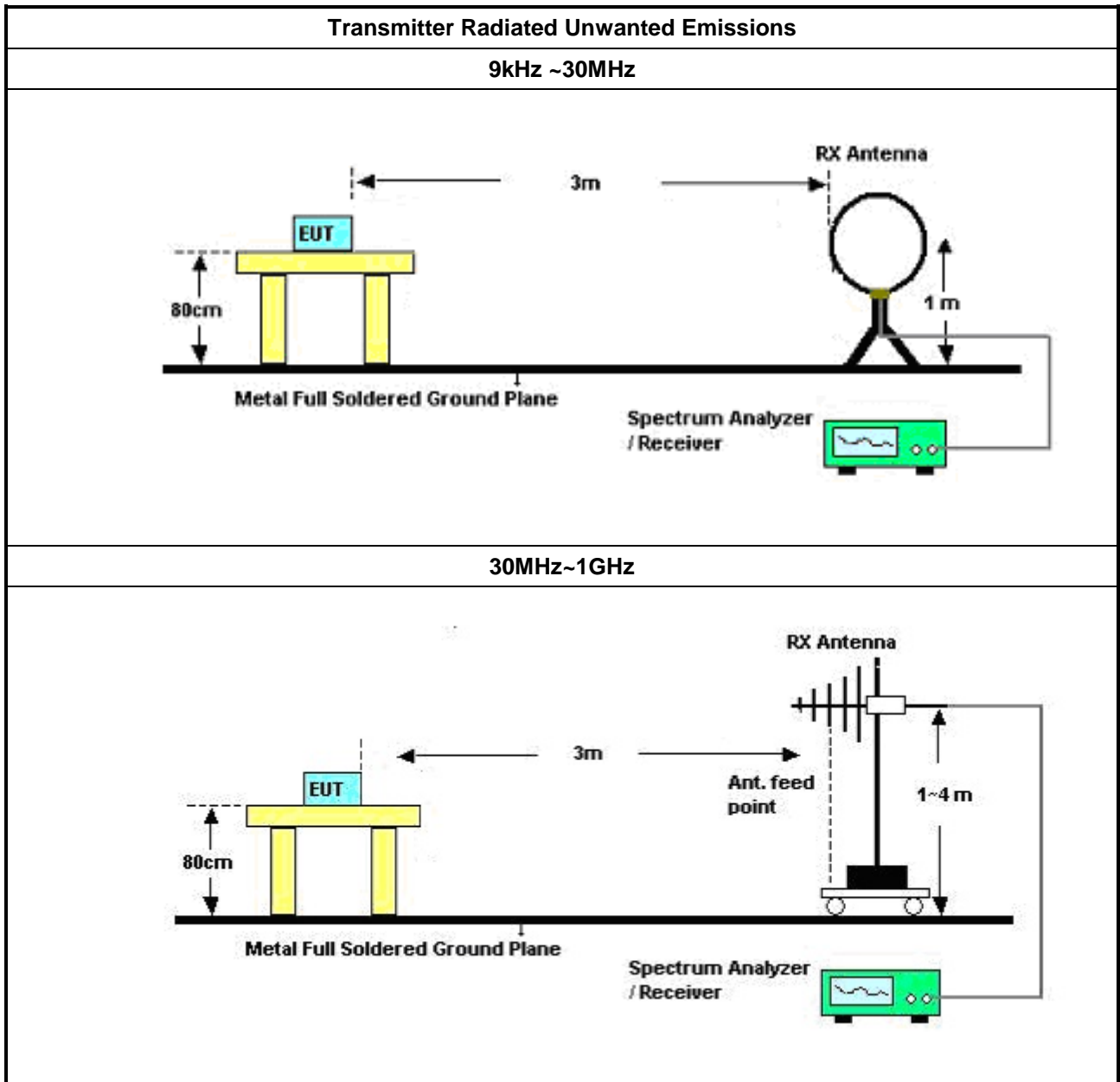
3.5.2 Measuring Instruments

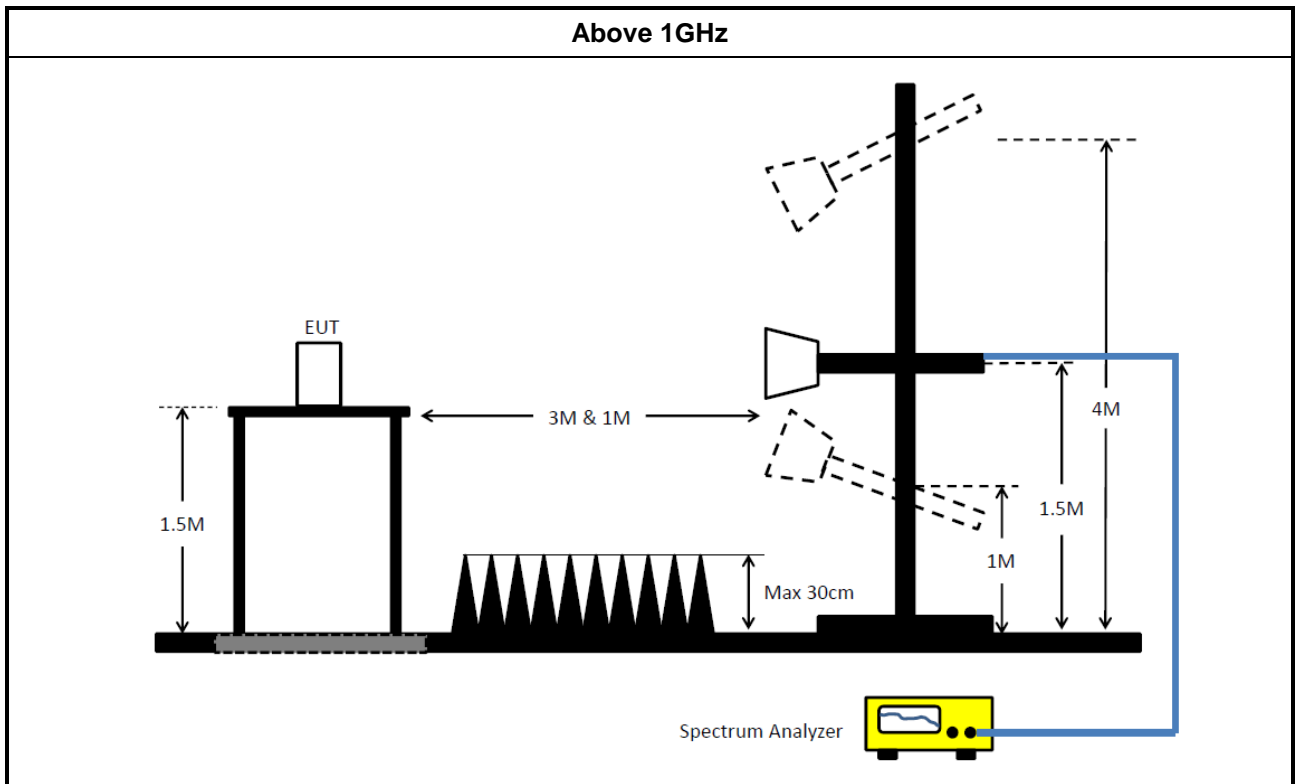
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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). 	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> ▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
<input checked="" type="checkbox"/>	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For radiated measurement. 	
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	
<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings: 	
	<ul style="list-style-type: none"> ▪ Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> ▪ Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. 	
	<ul style="list-style-type: none"> ▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	17/Feb/2020	16/Feb/2021

**Instrument for Radiated Test**

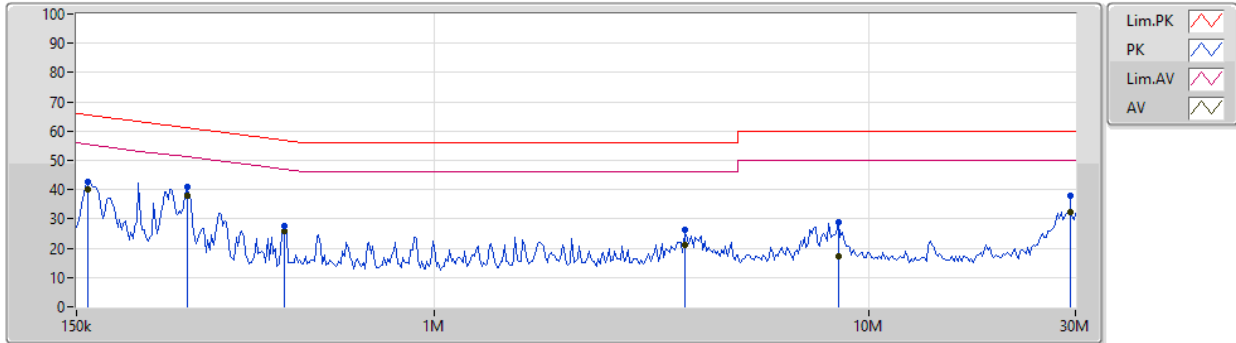
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz	19/Mar/2020	18/Mar/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	04/Sep/2019	03/Sep/2020
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	11/Oct/2019	10/Oct/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	22/May/2019	21/May/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz-30MHz	16/Mar/2020	15/Mar/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~1GHz	12/Feb/2020	11/Feb/2021
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	324530/4+17173/4	1GHz~40GHz	12/Feb/2020	11/Feb/2021



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE mode; Sample 1		

04/06/2020



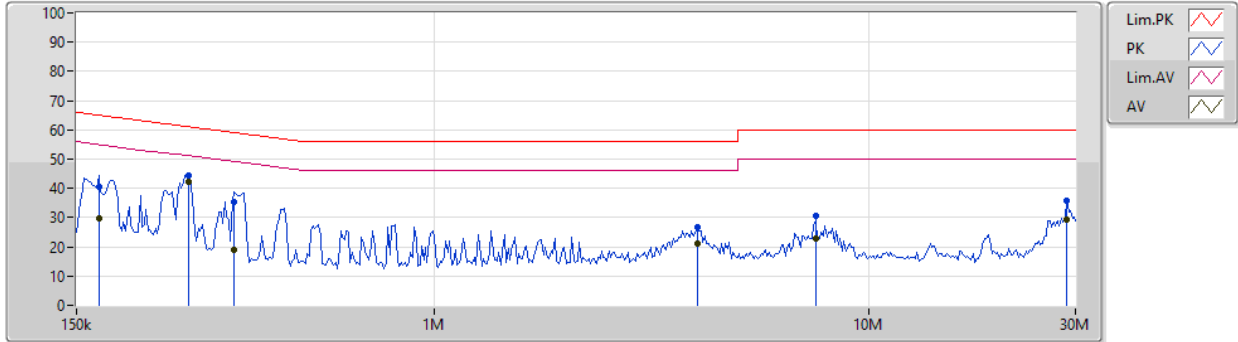
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	159.228k	42.87	65.50	-22.63	19.63	Neutral	-	23.24	9.65	0.11	9.87
AV	159.228k	40.22	55.50	-15.28	19.63	Neutral	-	20.59	9.65	0.11	9.87
QP	269.806k	41.14	61.12	-19.98	19.63	Neutral	-	21.51	9.64	0.12	9.87
AV	269.806k	37.91	51.12	-13.21	19.63	Neutral	"Worst"	18.28	9.64	0.12	9.87
QP	452.651k	27.74	56.82	-29.08	19.63	Neutral	-	8.11	9.63	0.13	9.87
AV	452.651k	25.88	46.82	-20.94	19.63	Neutral	-	6.25	9.63	0.13	9.87
QP	3.769M	26.24	56.00	-29.76	19.72	Neutral	-	6.52	9.66	0.18	9.88
AV	3.769M	21.05	46.00	-24.95	19.72	Neutral	-	1.33	9.66	0.18	9.88
QP	8.523M	29.06	60.00	-30.94	19.82	Neutral	-	9.24	9.69	0.25	9.88
AV	8.523M	17.40	50.00	-32.60	19.82	Neutral	-	-2.42	9.69	0.25	9.88
QP	29.27M	37.85	60.00	-22.15	19.98	Neutral	-	17.87	9.66	0.44	9.88
AV	29.27M	32.15	50.00	-17.85	19.98	Neutral	-	12.17	9.66	0.44	9.88



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	PoE mode; Sample 1		

04/06/2020



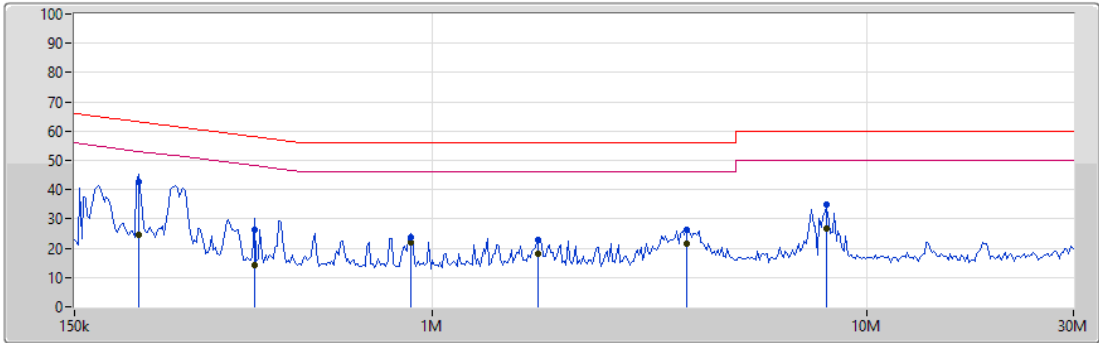
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	169.024k	40.35	65.01	-24.66	19.64	Line	-	20.71	9.66	0.11	9.87
AV	169.024k	29.53	55.01	-25.48	19.64	Line	-	9.89	9.66	0.11	9.87
QP	272.505k	44.54	61.05	-16.51	19.64	Line	-	24.90	9.65	0.12	9.87
AV	272.505k	42.04	51.05	-9.01	19.64	Line	"Worst"	22.40	9.65	0.12	9.87
QP	346.008k	35.35	59.06	-23.71	19.63	Line	-	15.72	9.64	0.12	9.87
AV	346.008k	19.07	49.06	-29.99	19.63	Line	-	-0.56	9.64	0.12	9.87
QP	4.041M	26.66	56.00	-29.34	19.73	Line	-	6.93	9.66	0.19	9.88
AV	4.041M	21.25	46.00	-24.75	19.73	Line	-	1.52	9.66	0.19	9.88
QP	7.563M	30.79	60.00	-29.21	19.80	Line	-	10.99	9.68	0.24	9.88
AV	7.563M	22.67	50.00	-27.33	19.80	Line	-	2.87	9.68	0.24	9.88
QP	28.693M	35.65	60.00	-24.35	19.84	Line	-	15.81	9.52	0.44	9.88
AV	28.693M	29.46	50.00	-20.54	19.84	Line	-	9.62	9.52	0.44	9.88



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	PoE mode; Sample 2		

04/06/2020



Legend for graph:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink line)
- AV (Green line)

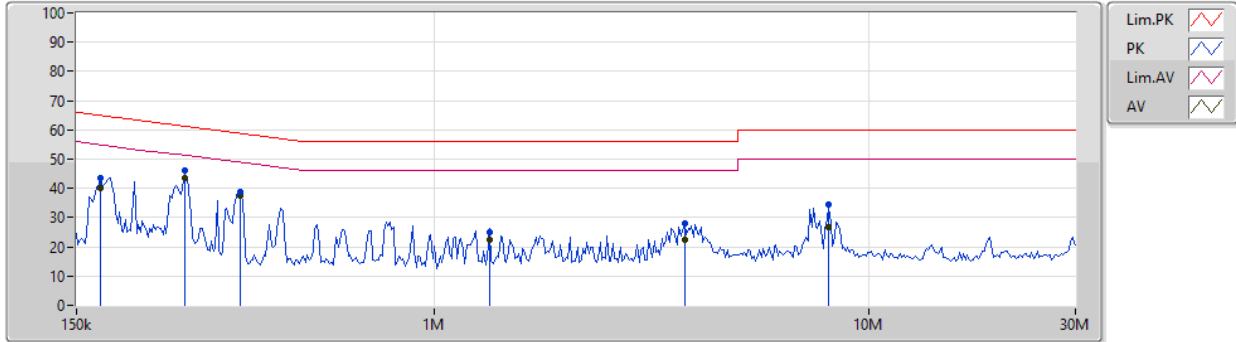
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	210.387k	42.78	63.19	-20.41	19.62	Neutral	"Worst"	23.16	9.64	0.11	9.87
AV	210.387k	24.48	53.19	-28.71	19.62	Neutral	-	4.86	9.64	0.11	9.87
QP	389.891k	26.33	58.07	-31.74	19.63	Neutral	-	6.70	9.63	0.13	9.87
AV	389.891k	14.29	48.07	-33.78	19.63	Neutral	-	-5.34	9.63	0.13	9.87
QP	890.466k	23.68	56.00	-32.32	19.61	Neutral	-	4.07	9.63	0.11	9.87
AV	890.466k	22.02	46.00	-23.98	19.61	Neutral	-	2.41	9.63	0.11	9.87
QP	1.752M	23.05	56.00	-32.95	19.66	Neutral	-	3.39	9.65	0.14	9.87
AV	1.752M	18.23	46.00	-27.77	19.66	Neutral	-	-1.43	9.65	0.14	9.87
QP	3.845M	26.16	56.00	-29.84	19.73	Neutral	-	6.43	9.66	0.19	9.88
AV	3.845M	21.34	46.00	-24.66	19.73	Neutral	-	1.61	9.66	0.19	9.88
QP	8.109M	34.79	60.00	-25.21	19.82	Neutral	-	14.97	9.69	0.25	9.88
AV	8.109M	26.90	50.00	-23.10	19.82	Neutral	-	7.08	9.69	0.25	9.88



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	PoE mode; Sample 2		

04/06/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	170.714k	43.65	64.93	-21.28	19.64	Line	-	24.01	9.66	0.11	9.87
AV	170.714k	40.30	54.93	-14.63	19.64	Line	-	20.66	9.66	0.11	9.87
QP	267.135k	45.97	61.20	-15.23	19.64	Line	-	26.33	9.65	0.12	9.87
AV	267.135k	43.44	51.20	-7.76	19.64	Line	"Worst"	23.80	9.65	0.12	9.87
QP	356.493k	38.59	58.81	-20.22	19.63	Line	-	18.96	9.64	0.12	9.87
AV	356.493k	37.44	48.81	-11.37	19.63	Line	-	17.81	9.64	0.12	9.87
QP	1.339M	25.02	56.00	-30.98	19.65	Line	-	5.37	9.64	0.13	9.88
AV	1.339M	22.22	46.00	-23.78	19.65	Line	-	2.57	9.64	0.13	9.88
QP	3.769M	28.11	56.00	-27.89	19.72	Line	-	8.39	9.66	0.18	9.88
AV	3.769M	22.52	46.00	-23.48	19.72	Line	-	2.80	9.66	0.18	9.88
QP	8.109M	34.40	60.00	-25.60	19.81	Line	-	14.59	9.68	0.25	9.88
AV	8.109M	26.88	50.00	-23.12	19.81	Line	-	7.07	9.68	0.25	9.88



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.48M	16.6M	16M6D1D	21.3M	16.504M
802.11n HT20_Nss1,(MCS0)_2TX	21.84M	17.799M	17M8D1D	21.48M	17.727M
802.11n HT40_Nss1,(MCS0)_2TX	40.26M	36.27M	36M3D1D	39.48M	36.174M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.81M	17.799M	17M8D1D	21.57M	17.727M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.26M	36.222M	36M2D1D	39.96M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.08M	75.802M	75M8D1D	81.48M	75.706M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69M	18.999M	19M0D1D	21.54M	18.927M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.08M	37.613M	37M6D1D	39.84M	37.517M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.2M	77.241M	77M2D1D	81.48M	77.049M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	16.624M	16M6D1D	16.29M	16.576M
802.11n HT20_Nss1,(MCS0)_2TX	17.58M	17.847M	17M8D1D	17.52M	17.751M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	36.27M	36M3D1D	35.7M	36.222M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.58M	17.823M	17M8D1D	17.55M	17.775M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.36M	36.27M	36M3D1D	36M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.72M	75.706M	75M7D1D	75.36M	75.61M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.93M	19.022M	19M0D1D	18.66M	18.975M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.26M	37.565M	37M6D1D	36.84M	37.517M
802.11ax HEW80_Nss1,(MCS0)_2TX	75.96M	76.954M	77M0D1D	75M	76.858M

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

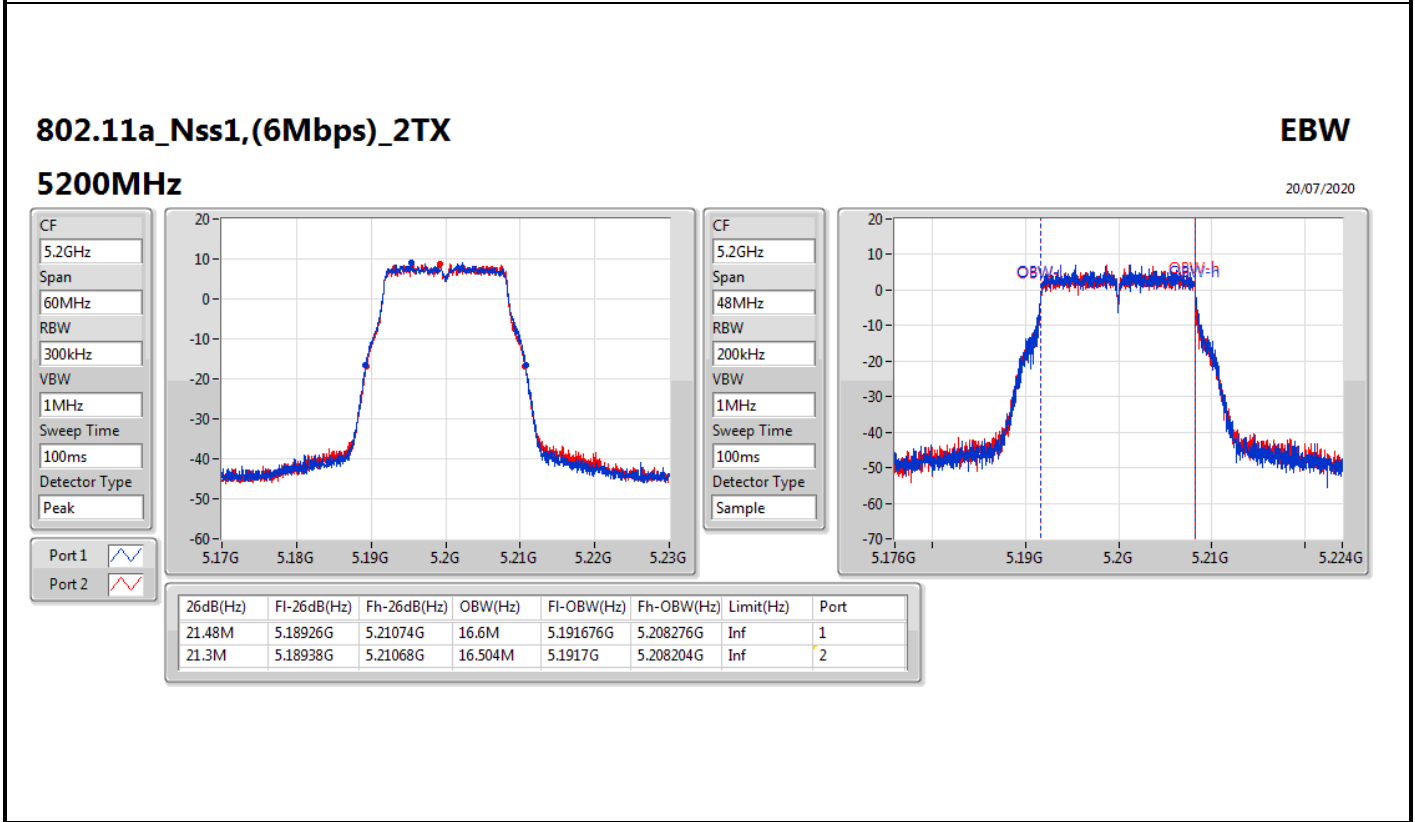
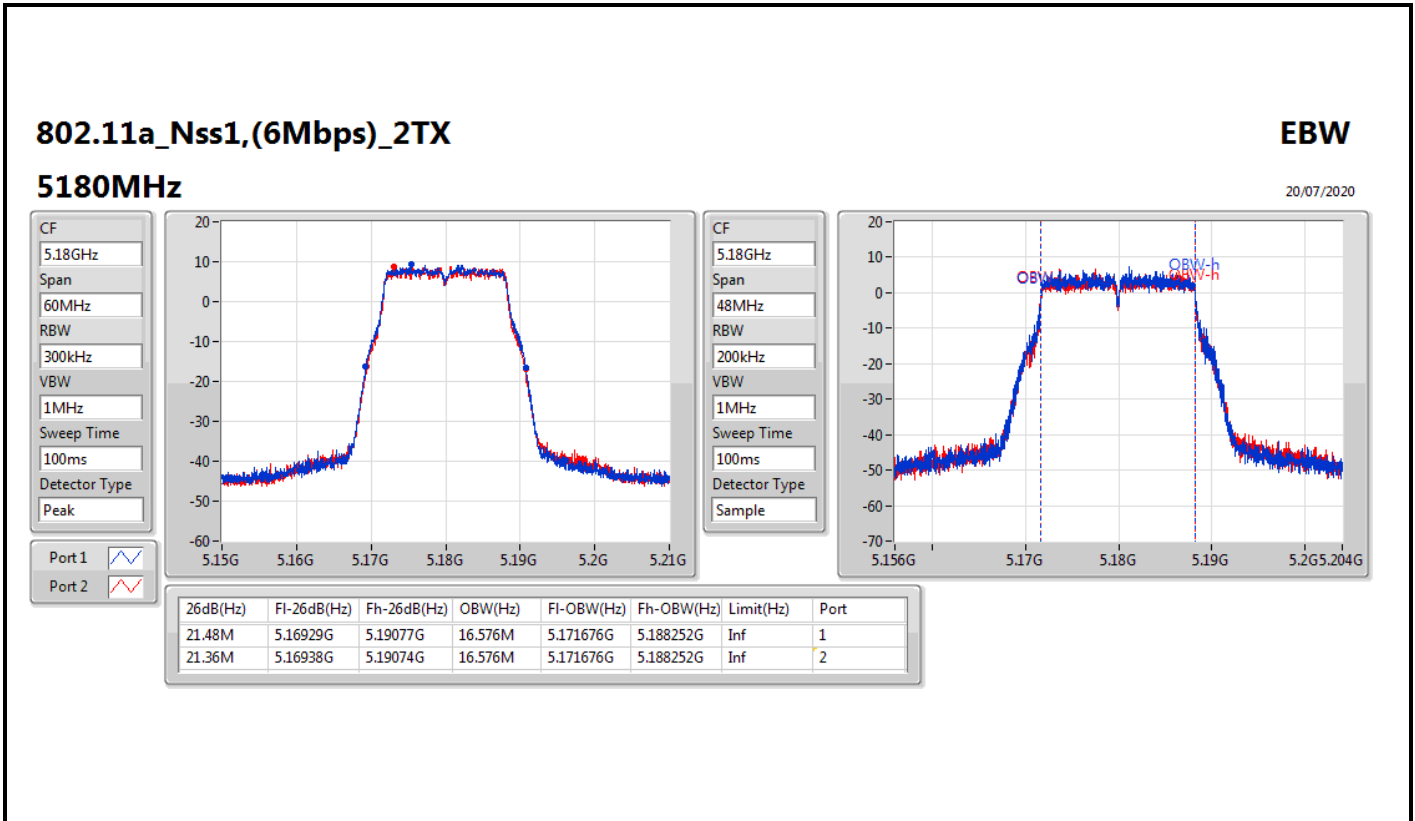
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.48M	16.576M	21.36M	16.576M
5200MHz	Pass	Inf	21.48M	16.6M	21.3M	16.504M
5240MHz	Pass	Inf	21.39M	16.576M	21.3M	16.552M
5745MHz	Pass	500k	16.29M	16.576M	16.32M	16.576M
5785MHz	Pass	500k	16.29M	16.624M	16.35M	16.6M
5825MHz	Pass	500k	16.35M	16.624M	16.29M	16.576M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.75M	17.799M	21.6M	17.751M
5200MHz	Pass	Inf	21.84M	17.775M	21.48M	17.727M
5240MHz	Pass	Inf	21.78M	17.799M	21.48M	17.727M
5745MHz	Pass	500k	17.52M	17.847M	17.58M	17.751M
5785MHz	Pass	500k	17.55M	17.775M	17.55M	17.751M
5825MHz	Pass	500k	17.52M	17.799M	17.55M	17.775M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	36.27M	39.48M	36.174M
5230MHz	Pass	Inf	40.2M	36.222M	39.48M	36.174M
5755MHz	Pass	500k	35.7M	36.27M	36M	36.222M
5795MHz	Pass	500k	35.7M	36.222M	36.3M	36.27M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.81M	17.775M	21.6M	17.727M
5200MHz	Pass	Inf	21.75M	17.775M	21.63M	17.799M
5240MHz	Pass	Inf	21.66M	17.775M	21.57M	17.775M
5745MHz	Pass	500k	17.55M	17.799M	17.58M	17.775M
5785MHz	Pass	500k	17.55M	17.799M	17.58M	17.799M
5825MHz	Pass	500k	17.55M	17.823M	17.55M	17.775M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	36.222M	39.96M	36.222M
5230MHz	Pass	Inf	40.26M	36.222M	39.96M	36.222M
5755MHz	Pass	500k	36.06M	36.27M	36M	36.27M
5795MHz	Pass	500k	36M	36.222M	36.36M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	75.706M	81.48M	75.802M
5775MHz	Pass	500k	75.72M	75.706M	75.36M	75.61M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.69M	18.951M	21.57M	18.927M
5200MHz	Pass	Inf	21.66M	18.975M	21.6M	18.975M
5240MHz	Pass	Inf	21.66M	18.999M	21.54M	18.975M
5745MHz	Pass	500k	18.78M	18.975M	18.9M	18.975M
5785MHz	Pass	500k	18.9M	19.022M	18.66M	18.999M
5825MHz	Pass	500k	18.93M	18.999M	18.9M	18.975M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.613M	39.84M	37.565M
5230MHz	Pass	Inf	40.08M	37.517M	39.84M	37.565M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5755MHz	Pass	500k	36.84M	37.517M	37.14M	37.517M
5795MHz	Pass	500k	37.08M	37.565M	37.26M	37.565M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.049M	81.48M	77.241M
5775MHz	Pass	500k	75.96M	76.858M	75M	76.954M

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

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



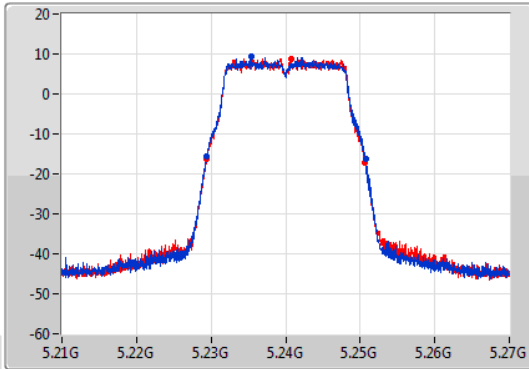
802.11a_Nss1,(6Mbps)_2TX

EBW

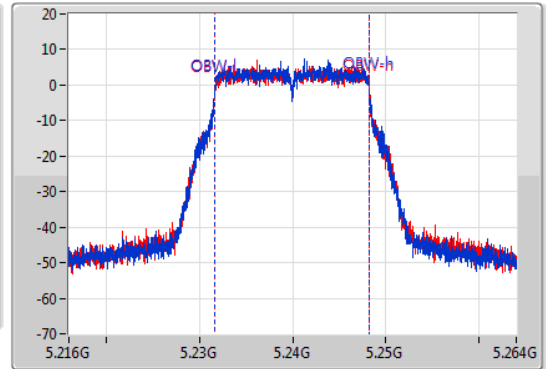
5240MHz

20/07/2020

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.39M	5.22935G	5.25074G	16.576M	5.231652G	5.248228G	Inf	1
21.3M	5.22938G	5.25068G	16.552M	5.231676G	5.248228G	Inf	2

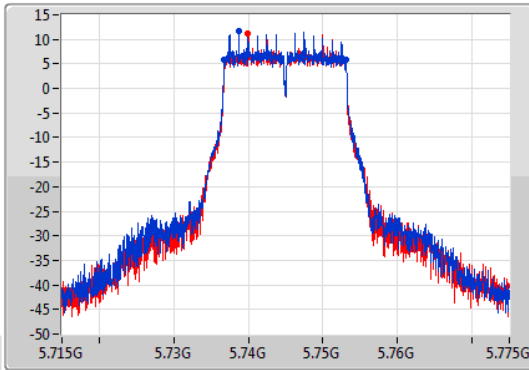
802.11a_Nss1,(6Mbps)_2TX

EBW

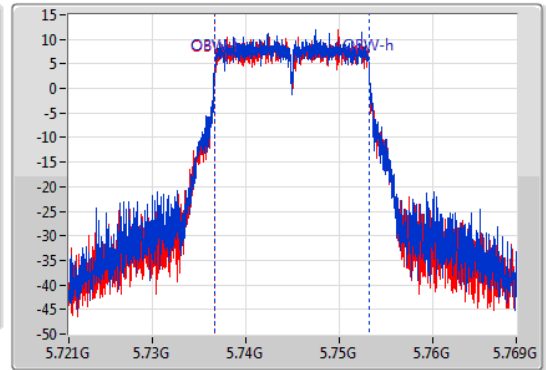
5745MHz

16/07/2020

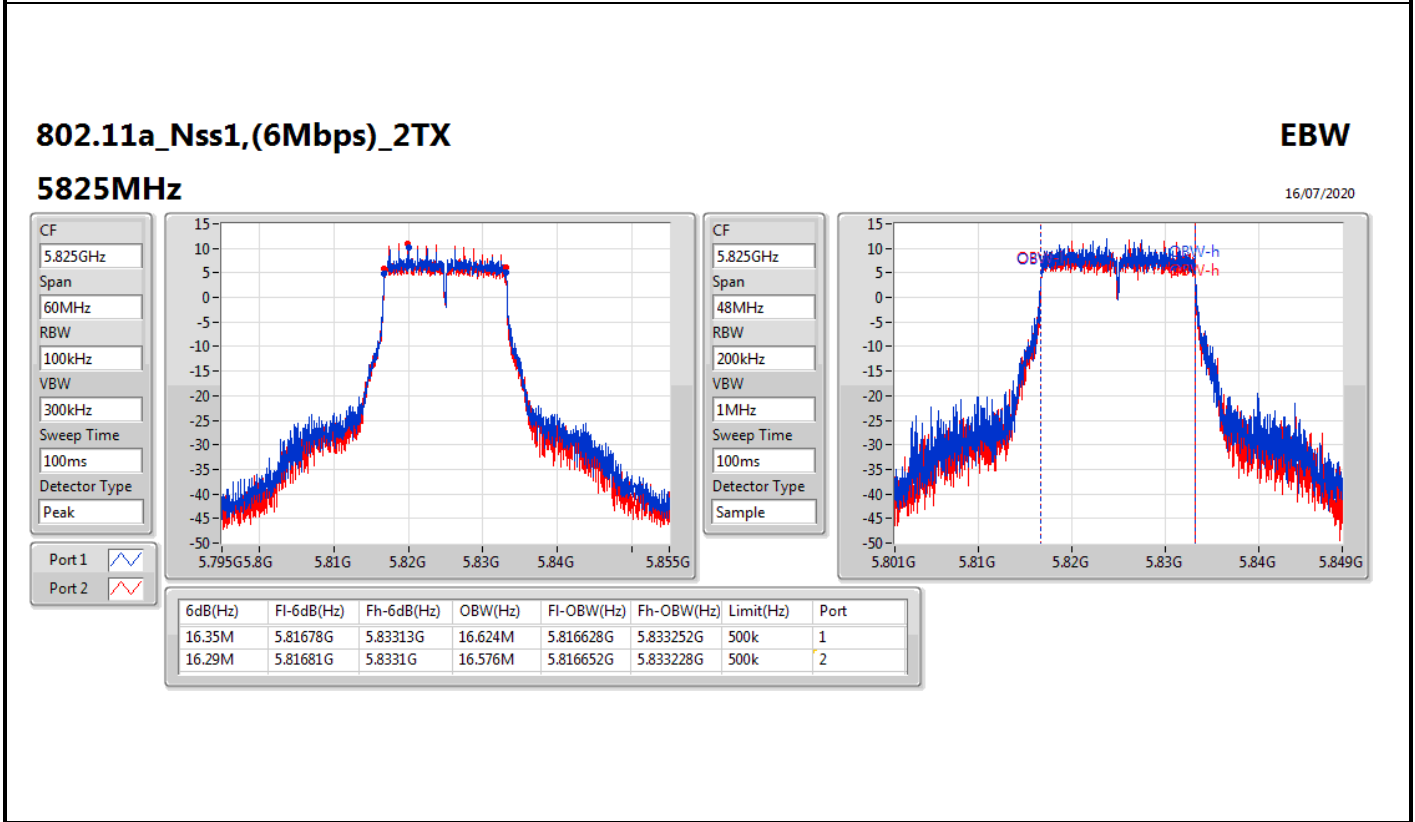
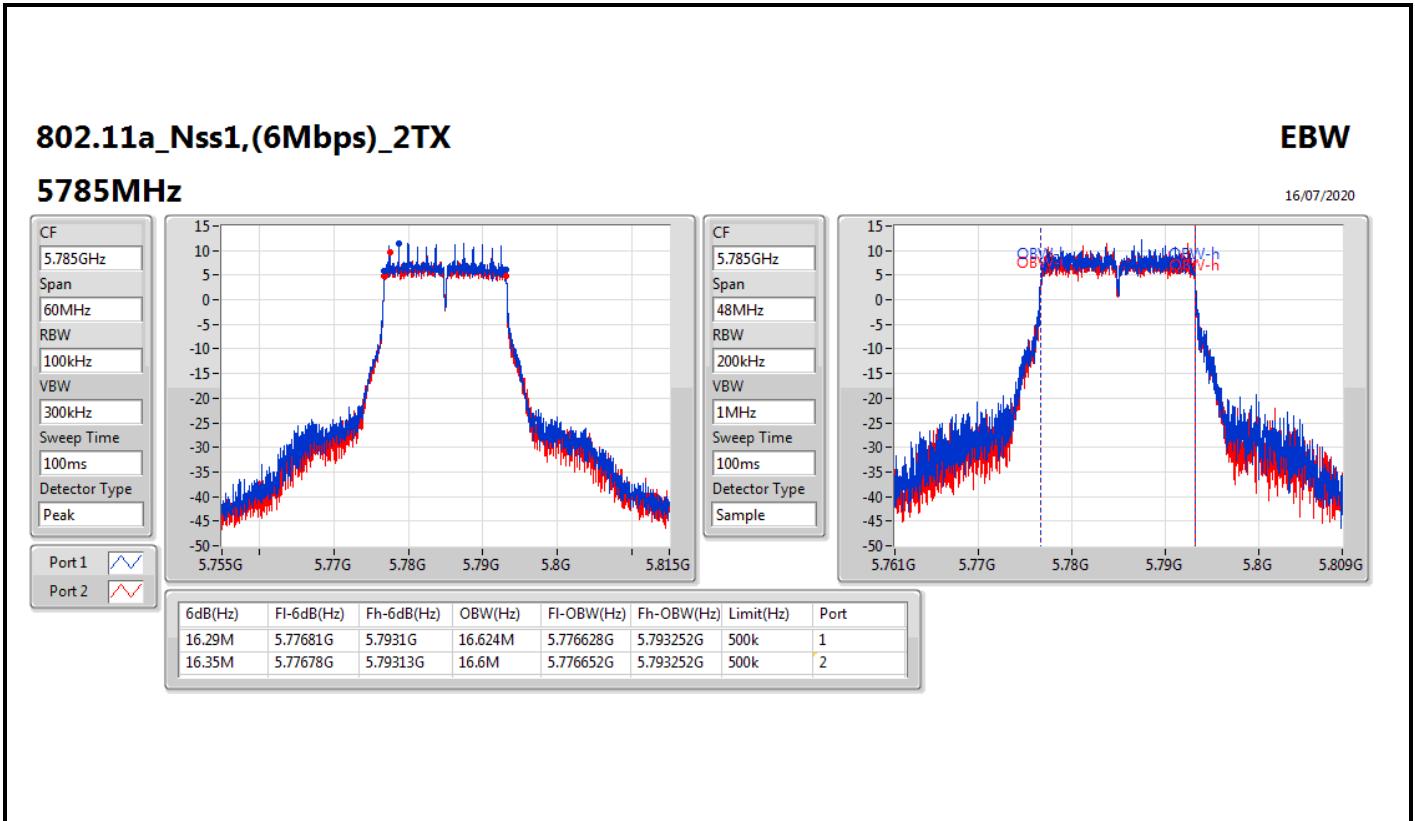
CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.29M	5.73681G	5.7531G	16.576M	5.736652G	5.753228G	500k	1
16.32M	5.73681G	5.75313G	16.576M	5.736652G	5.753228G	500k	2



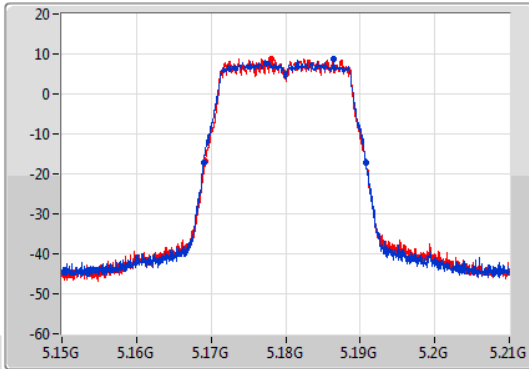
802.11n HT20_Nss1,(MCS0)_2TX

EBW

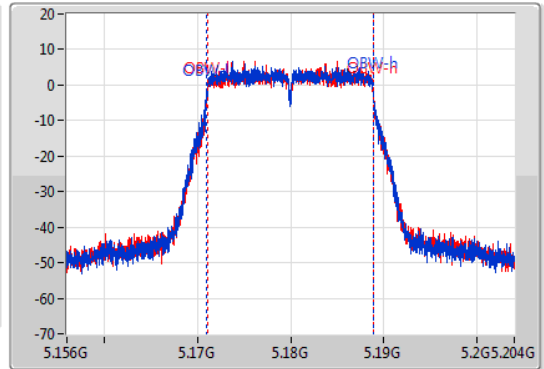
5180MHz

22/07/2020

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.16902G	5.19077G	17.799M	5.171028G	5.188828G	Inf	1
21.6M	5.1692G	5.1908G	17.751M	5.1711G	5.188852G	Inf	2

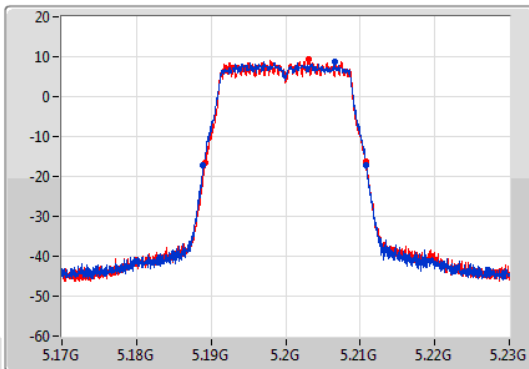
802.11n HT20_Nss1,(MCS0)_2TX

EBW

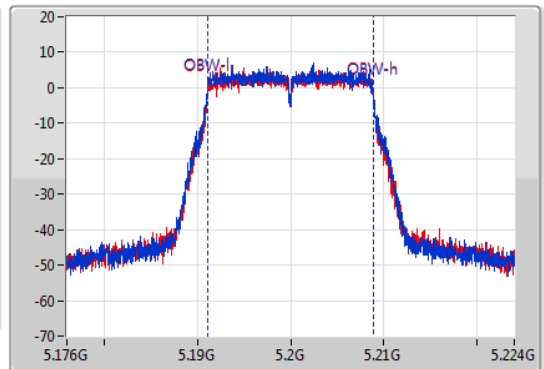
5200MHz

22/07/2020

CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



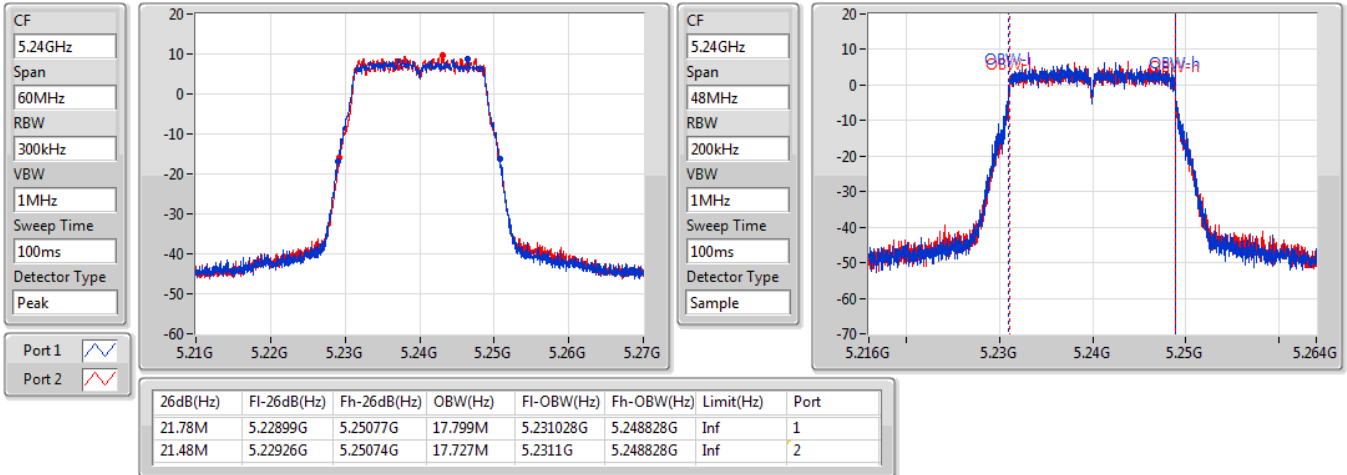
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.84M	5.18896G	5.2108G	17.775M	5.191052G	5.208828G	Inf	1
21.48M	5.18926G	5.21074G	17.727M	5.1911G	5.208828G	Inf	2

802.11n HT20_Nss1,(MCS0)_2TX

EBW

5240MHz

22/07/2020

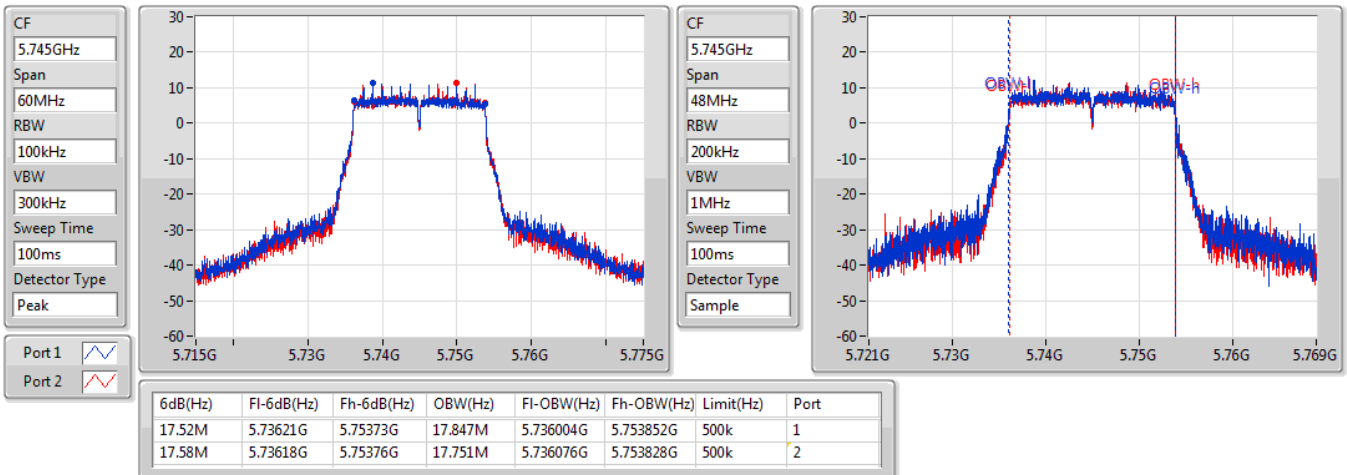


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5745MHz

22/07/2020



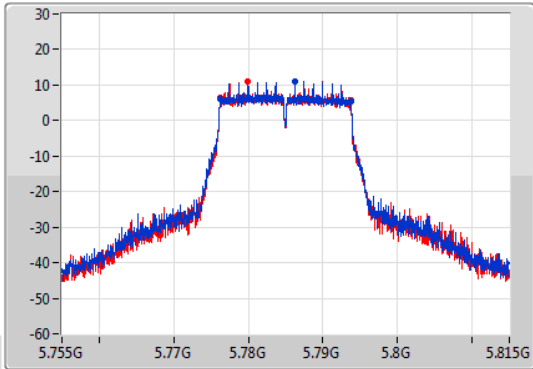
802.11n HT20_Nss1,(MCS0)_2TX

EBW

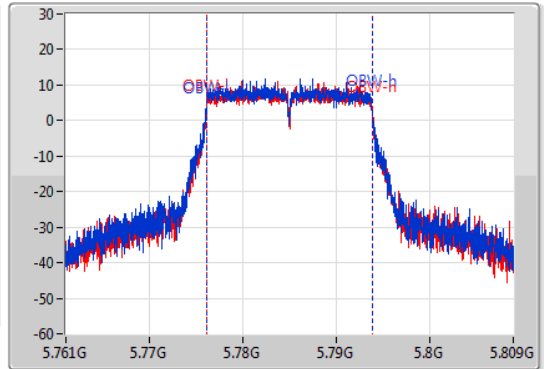
5785MHz

22/07/2020

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.77618G	5.79373G	17.775M	5.776052G	5.793828G	500k	1
17.55M	5.77618G	5.79373G	17.751M	5.776076G	5.793828G	500k	2

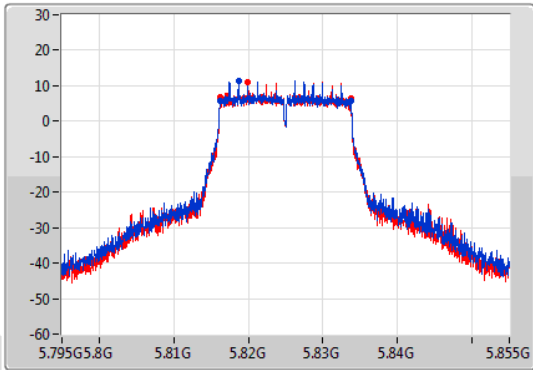
802.11n HT20_Nss1,(MCS0)_2TX

EBW

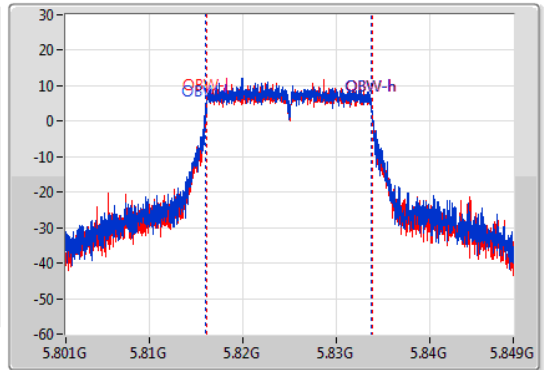
5825MHz

22/07/2020

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.52M	5.81618G	5.8337G	17.799M	5.816004G	5.833804G	500k	1
17.55M	5.81618G	5.83373G	17.775M	5.816052G	5.833828G	500k	2

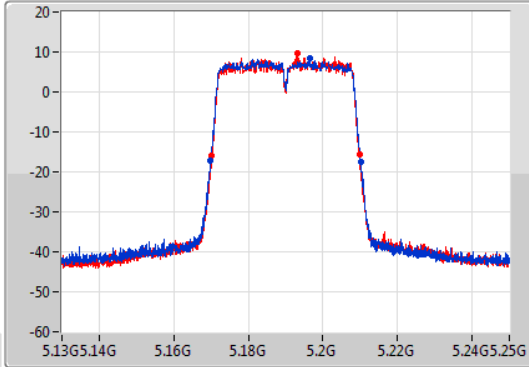
802.11n HT40_Nss1,(MCS0)_2TX

EBW

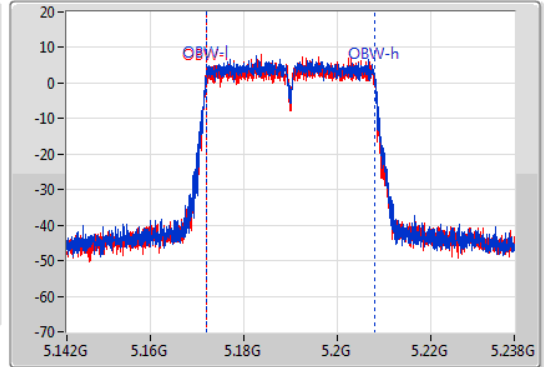
5190MHz

22/07/2020

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.16984G	5.2101G	36.27M	5.171817G	5.208087G	Inf	1
39.48M	5.17026G	5.20974G	36.174M	5.171865G	5.208039G	Inf	2

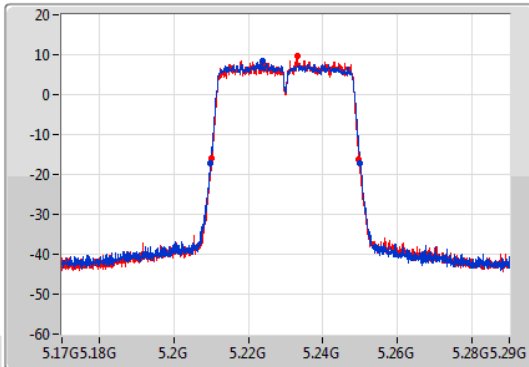
802.11n HT40_Nss1,(MCS0)_2TX

EBW

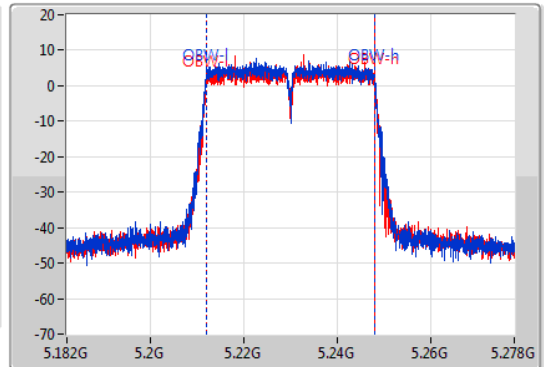
5230MHz

22/07/2020

CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



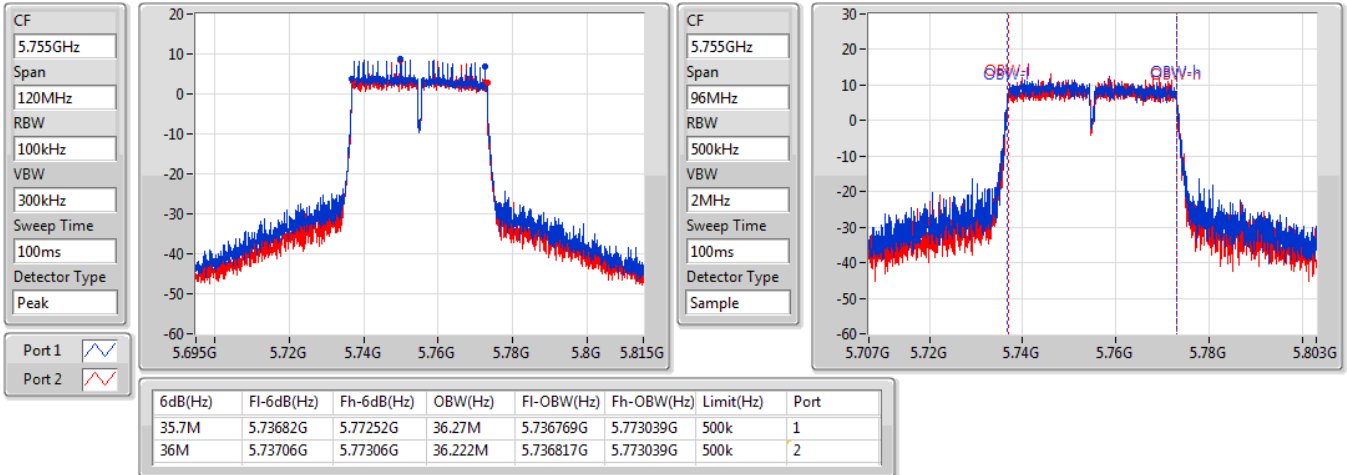
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.20984G	5.25004G	36.222M	5.211817G	5.248039G	Inf	1
39.48M	5.2102G	5.24968G	36.174M	5.211865G	5.248039G	Inf	2

802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

22/07/2020

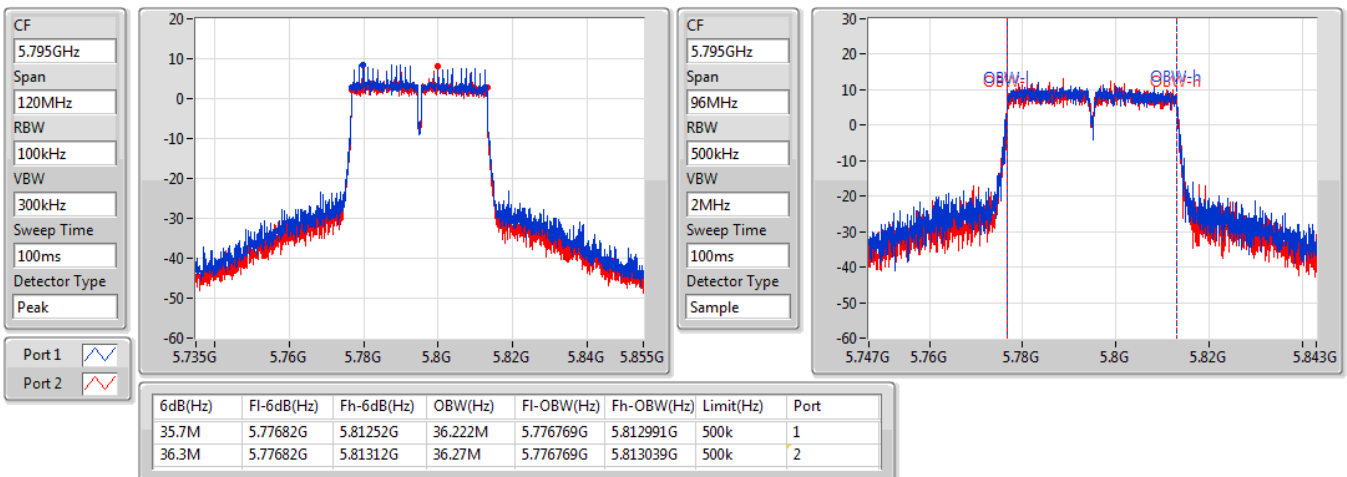


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

22/07/2020



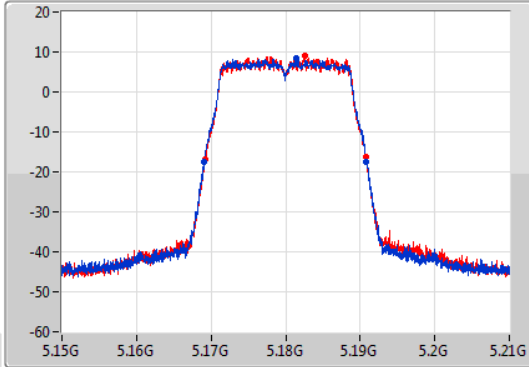
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

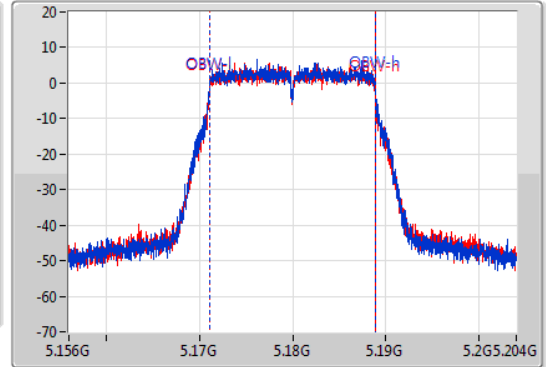
5180MHz

20/07/2020

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.81M	5.16905G	5.19086G	17.775M	5.171076G	5.188852G	Inf	1
21.6M	5.16917G	5.19077G	17.727M	5.17111G	5.188828G	Inf	2

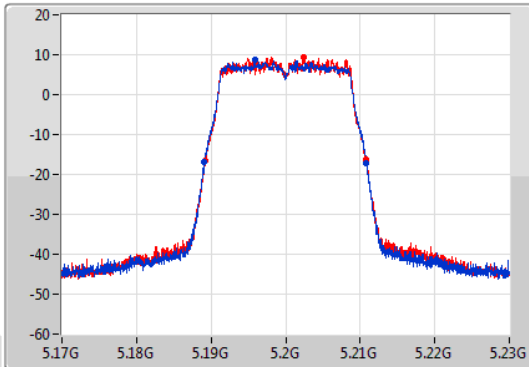
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

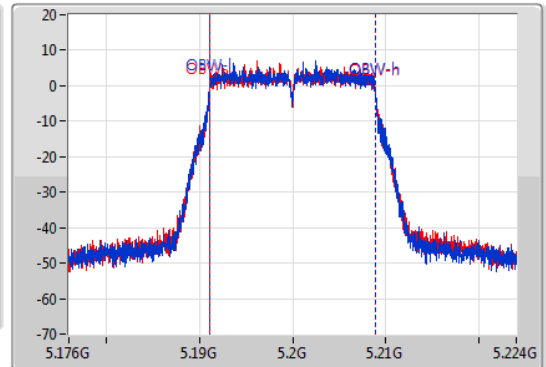
5200MHz

20/07/2020

CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.18911G	5.21086G	17.775M	5.191076G	5.208852G	Inf	1
21.63M	5.18917G	5.2108G	17.799M	5.191076G	5.208876G	Inf	2

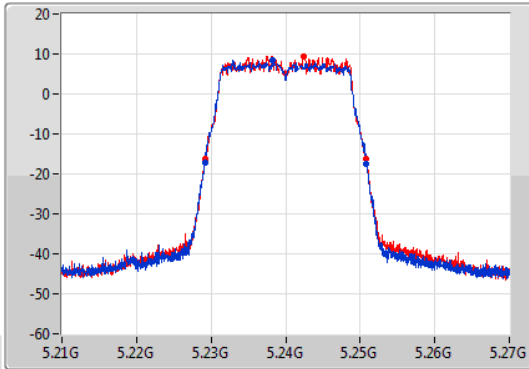
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

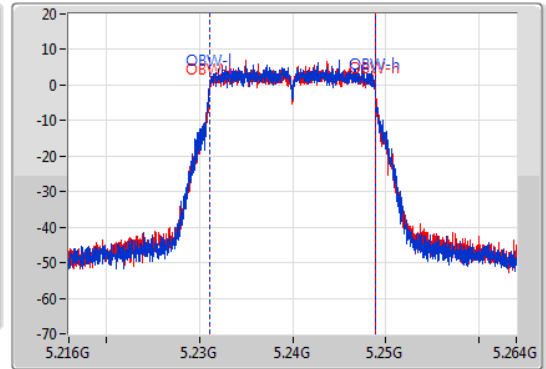
5240MHz

20/07/2020

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.66M	5.2292G	5.25086G	17.775M	5.231052G	5.248828G	Inf	1
21.57M	5.22923G	5.2508G	17.775M	5.231076G	5.248852G	Inf	2

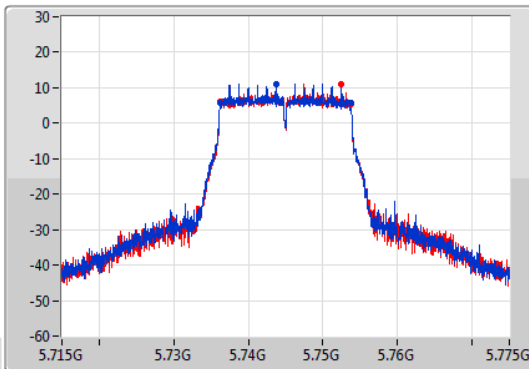
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

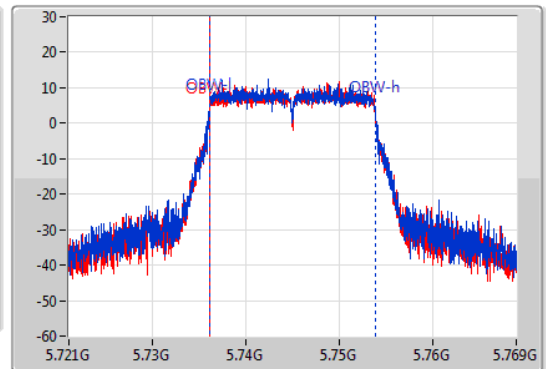
5745MHz

17/07/2020

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.73618G	5.75373G	17.799M	5.736052G	5.753852G	500k	1
17.58M	5.73618G	5.75376G	17.775M	5.736076G	5.753852G	500k	2

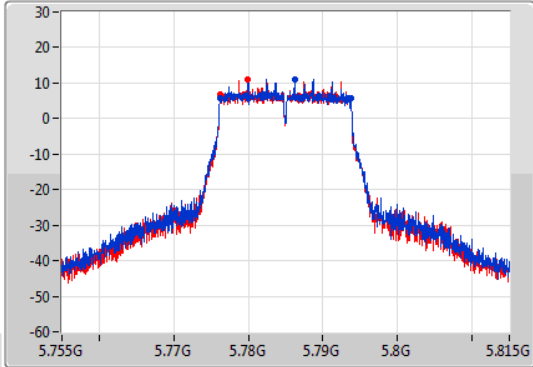
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

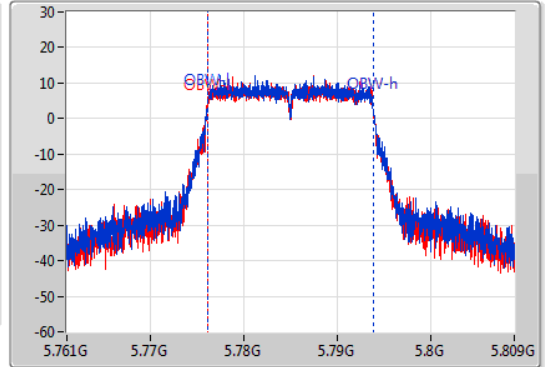
5785MHz

17/07/2020

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.77618G	5.79373G	17.799M	5.776052G	5.793852G	500k	1
17.58M	5.77618G	5.79376G	17.799M	5.776052G	5.793852G	500k	2

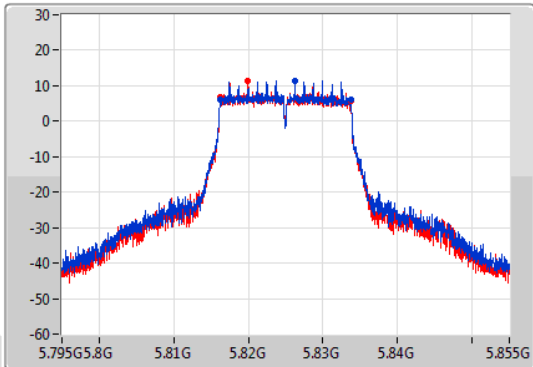
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

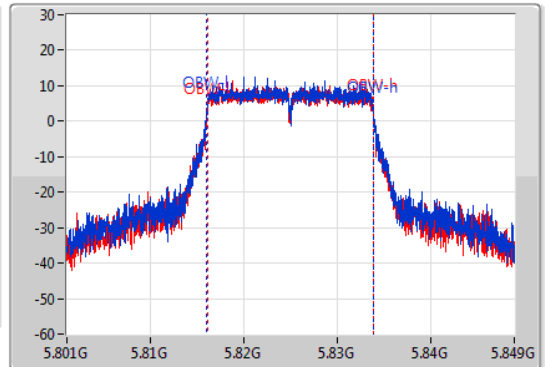
5825MHz

17/07/2020

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



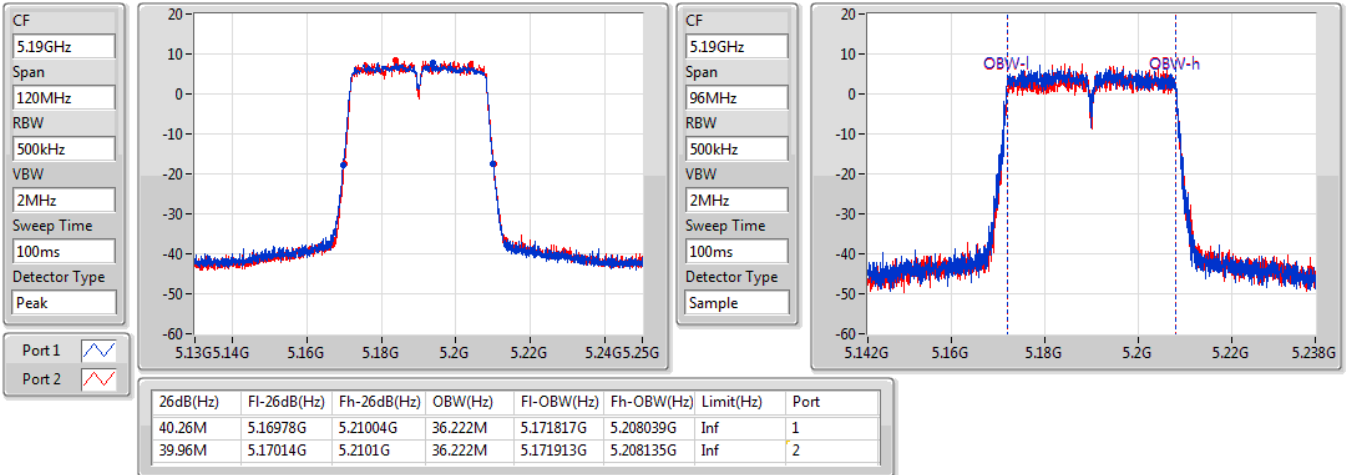
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81618G	5.83373G	17.823M	5.816028G	5.833852G	500k	1
17.55M	5.81618G	5.83373G	17.775M	5.816052G	5.833828G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

20/07/2020

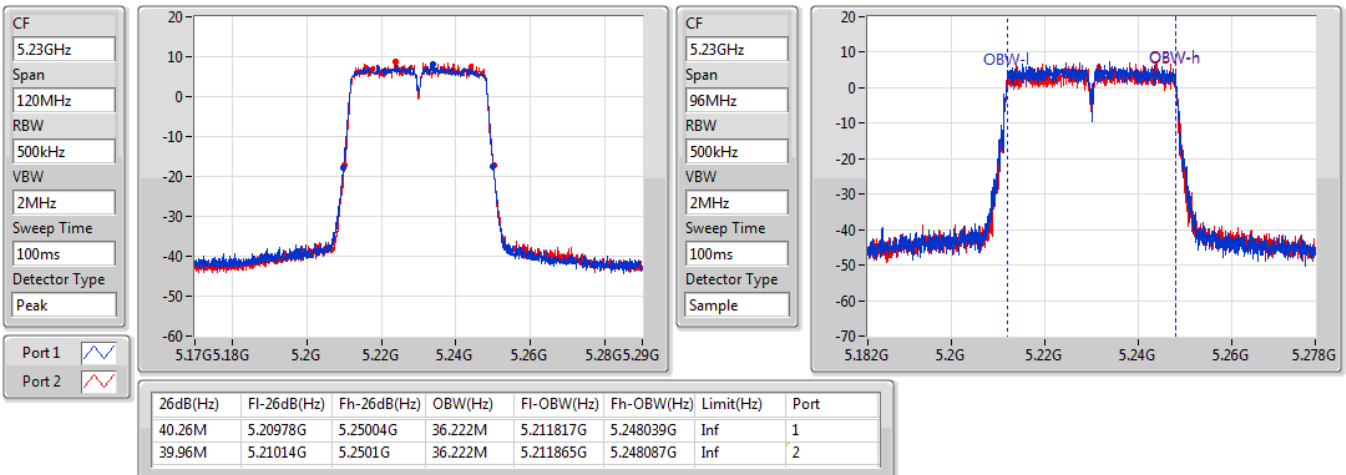


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

20/07/2020

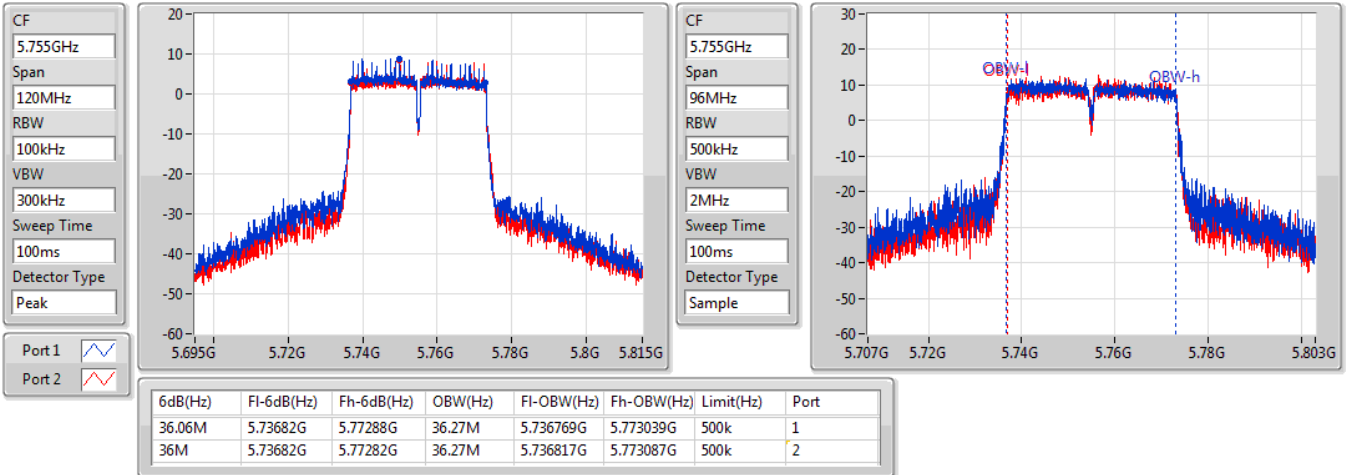


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

17/07/2020

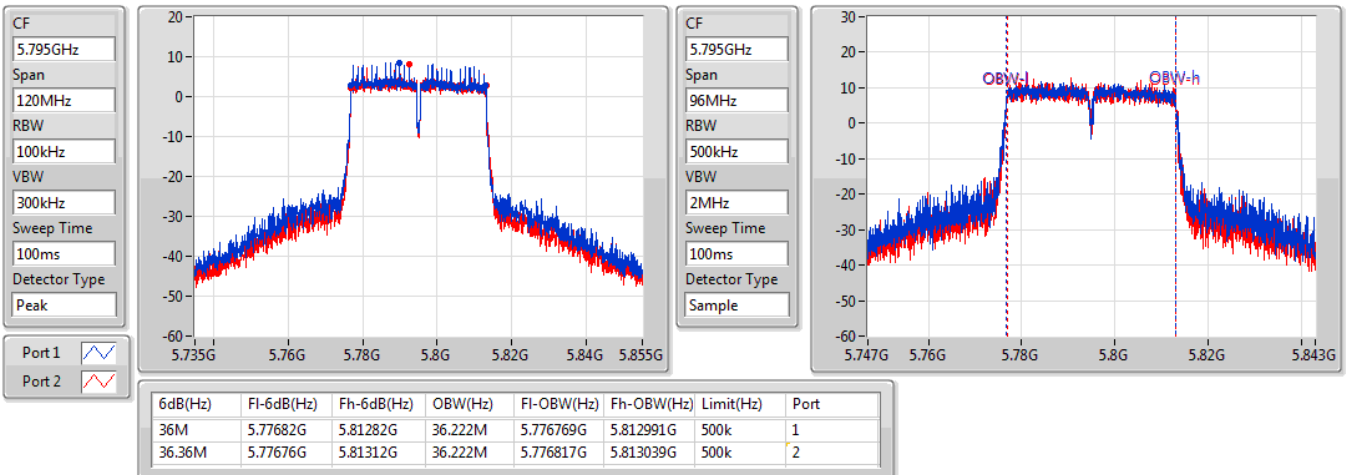


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

17/07/2020



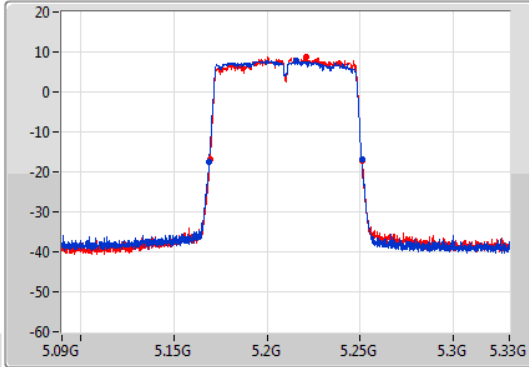
802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

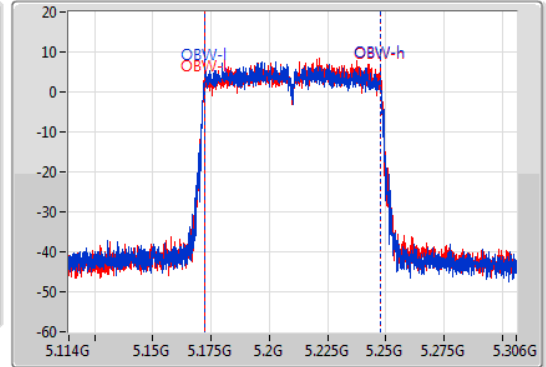
5210MHz

20/07/2020

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.08M	5.16872G	5.2508G	75.706M	5.172099G	5.247805G	Inf	1
81.48M	5.16944G	5.25092G	75.802M	5.172099G	5.247901G	Inf	2

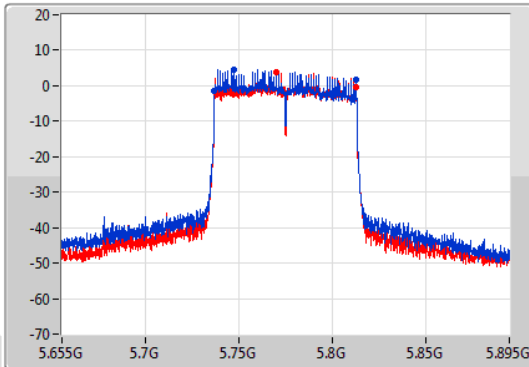
802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

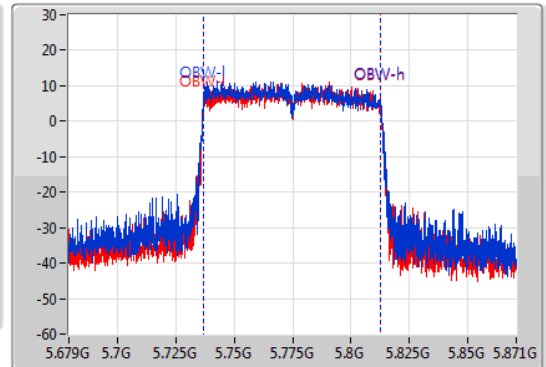
5775MHz

18/07/2020

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.72M	5.73684G	5.81256G	75.706M	5.736907G	5.812613G	500k	1
75.36M	5.7372G	5.81256G	75.61M	5.737003G	5.812613G	500k	2

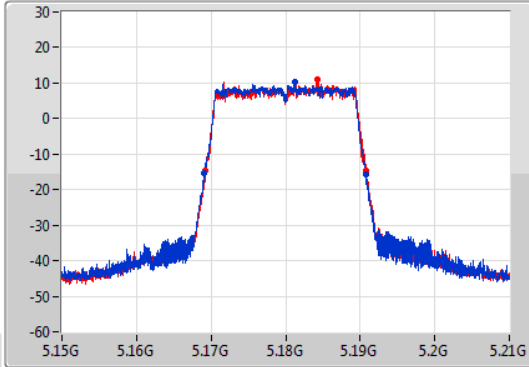
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

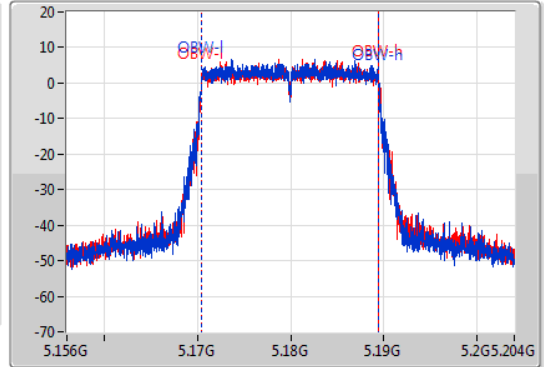
5180MHz

20/07/2020

CF: 5.18GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.18GHz
 Span: 48MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.69M	5.16911G	5.1908G	18.951M	5.170477G	5.189427G	Inf	1
21.57M	5.16929G	5.19086G	18.927M	5.170501G	5.189427G	Inf	2

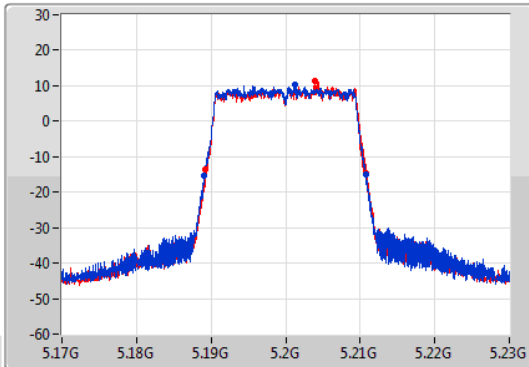
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

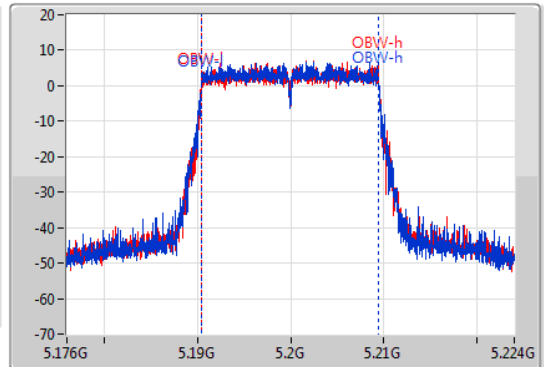
5200MHz

20/07/2020

CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 48MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.66M	5.18911G	5.21077G	18.975M	5.190453G	5.209427G	Inf	1
21.6M	5.18926G	5.21086G	18.975M	5.190477G	5.209451G	Inf	2

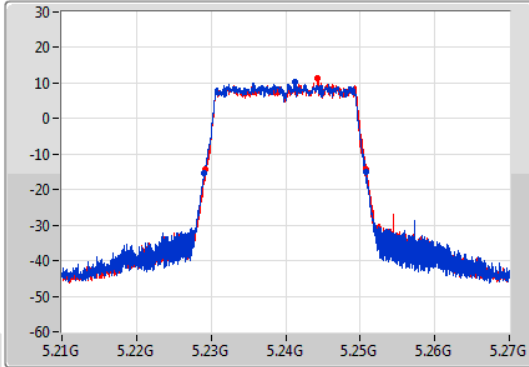
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

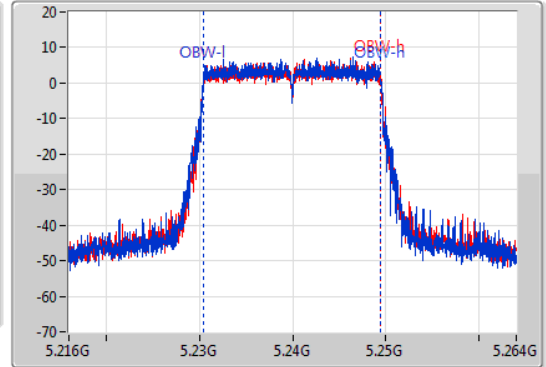
5240MHz

20/07/2020

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.66M	5.22911G	5.25077G	18.999M	5.230453G	5.249451G	Inf	1
21.54M	5.22929G	5.25083G	18.975M	5.230477G	5.249451G	Inf	2

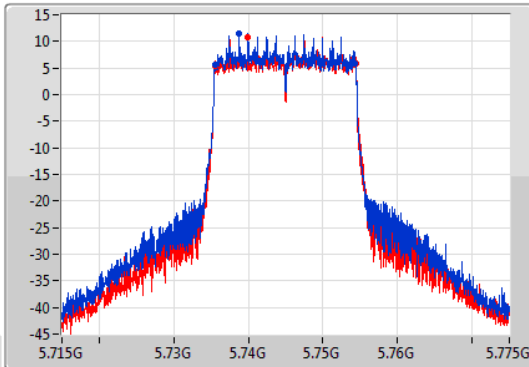
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

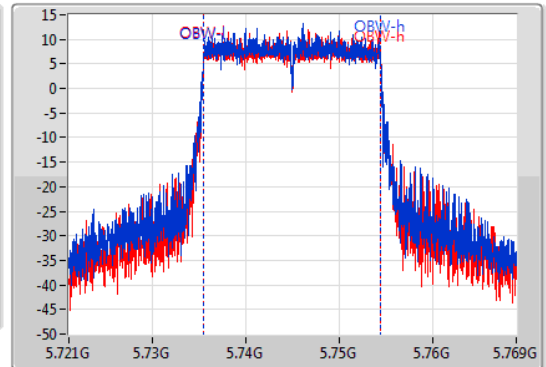
5745MHz

16/07/2020

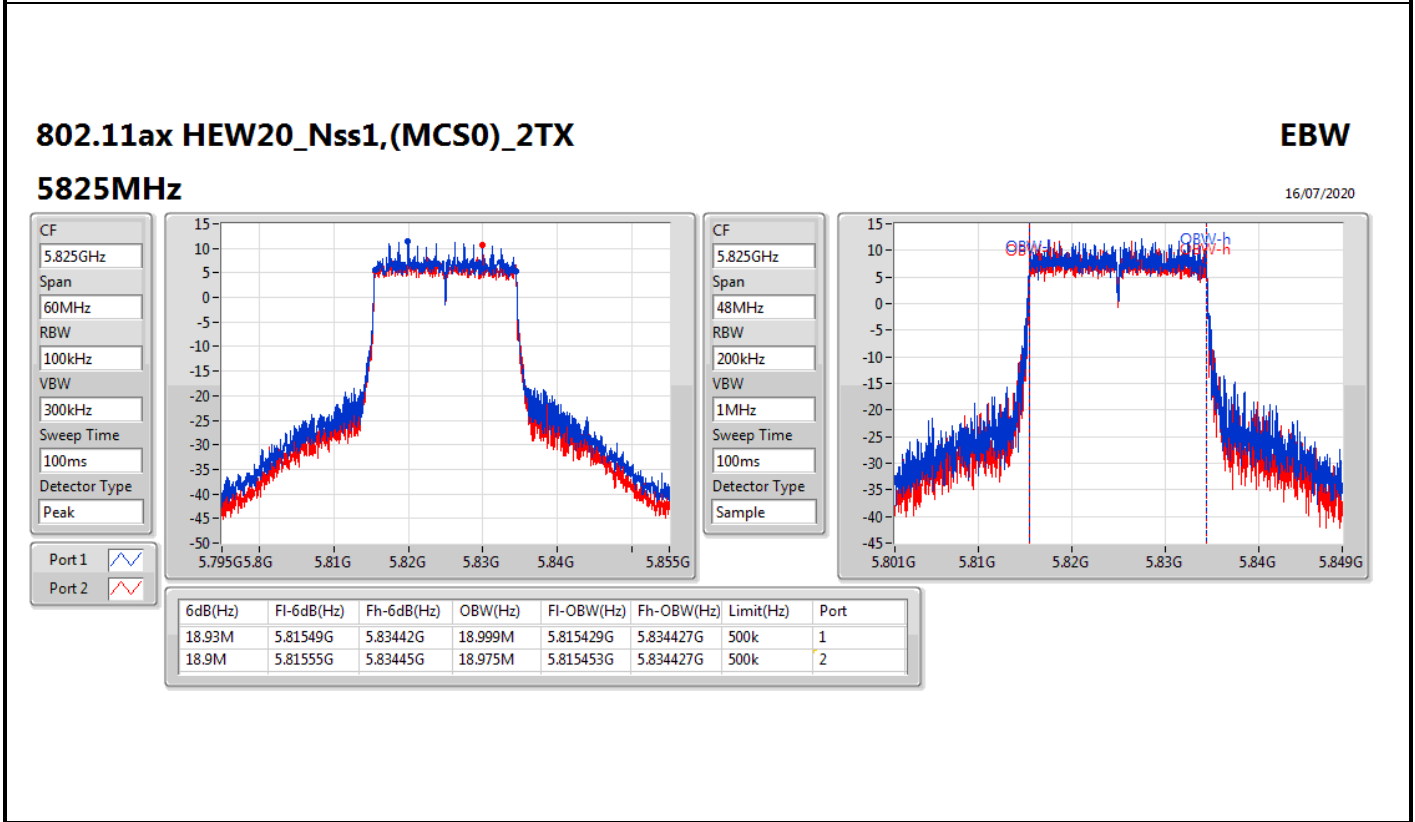
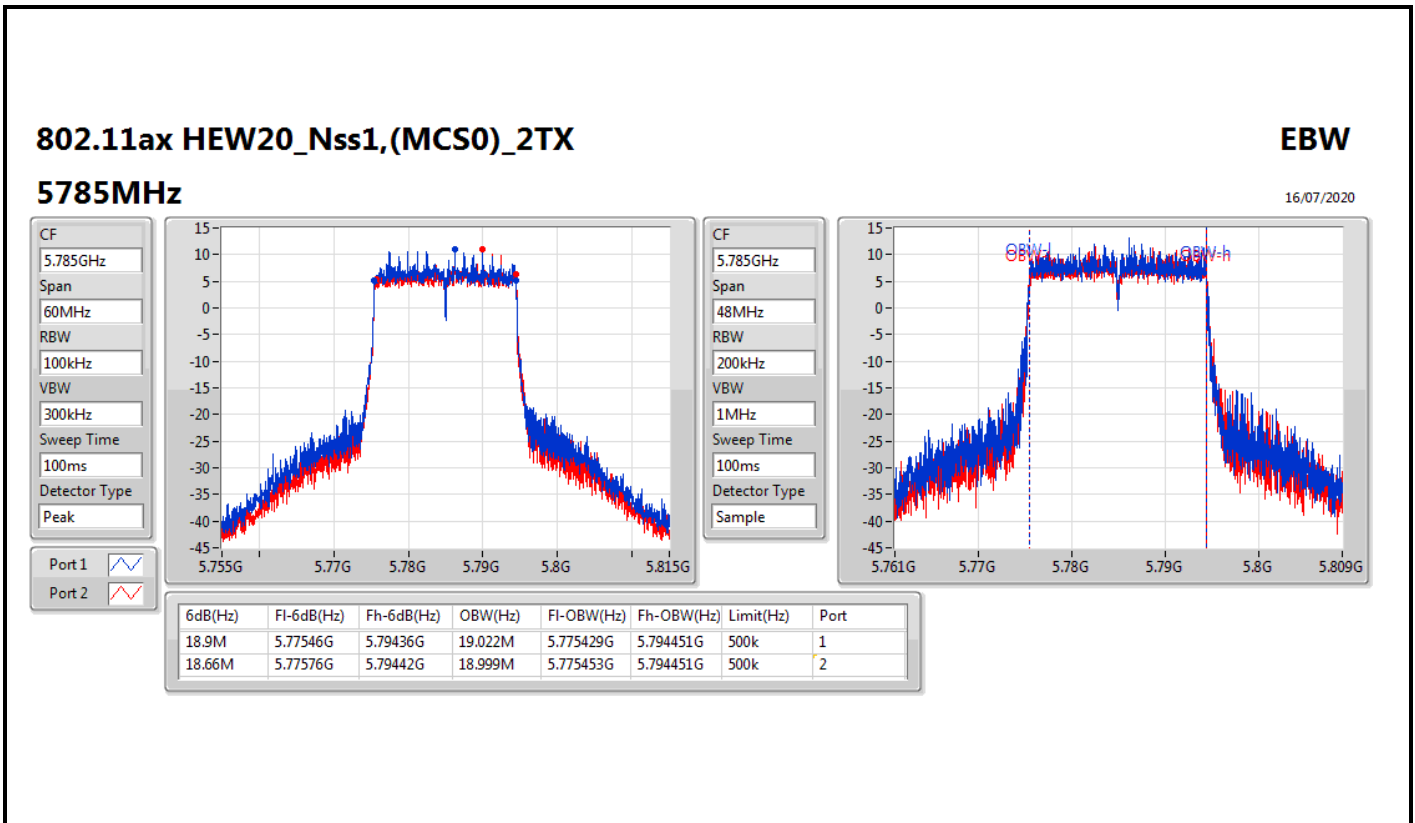
CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.78M	5.73549G	5.75427G	18.975M	5.735453G	5.754427G	500k	1
18.9M	5.73555G	5.75445G	18.975M	5.735453G	5.754427G	500k	2

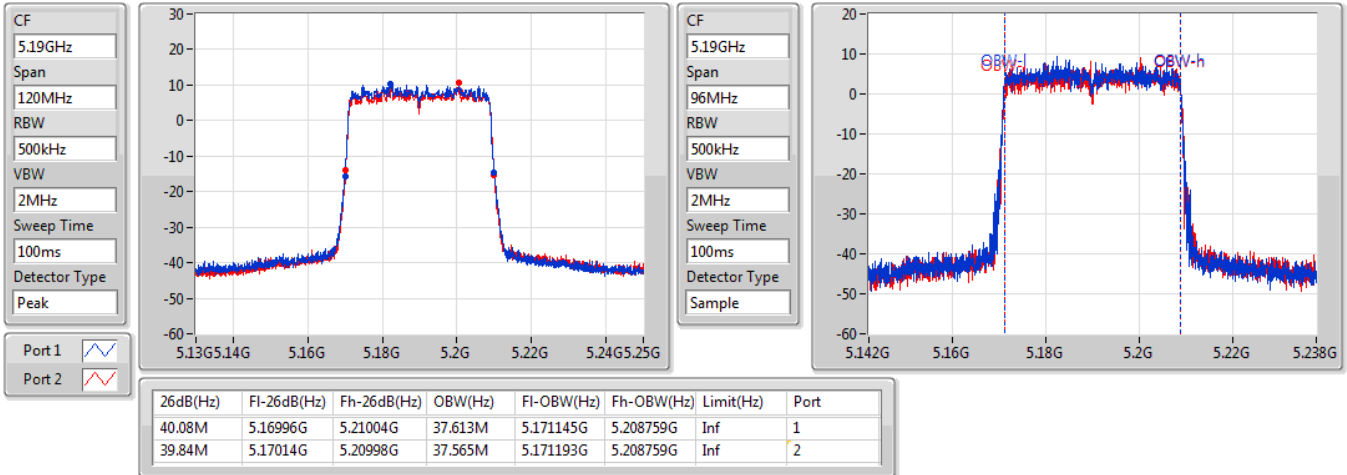


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

20/07/2020

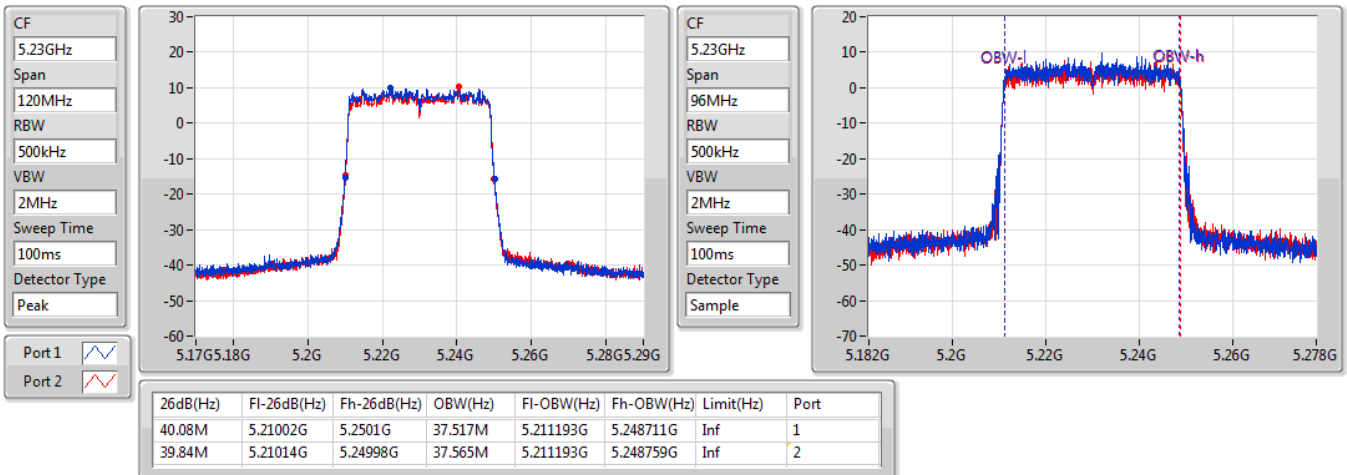


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

20/07/2020



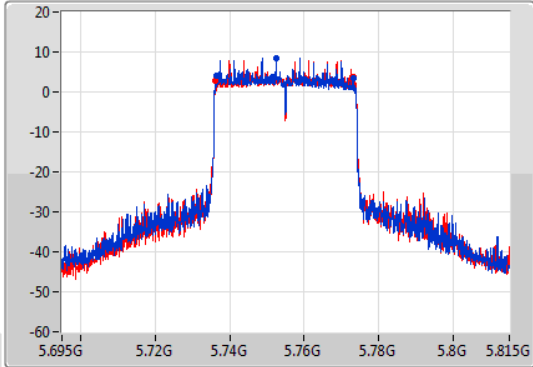
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

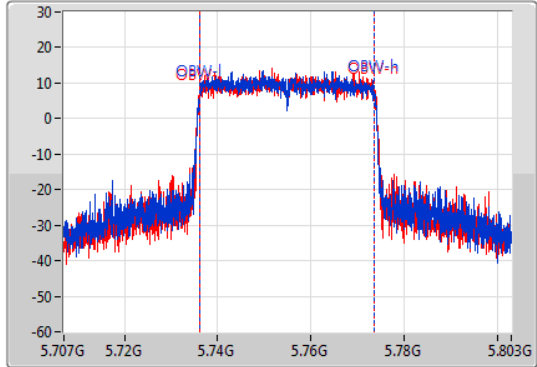
5755MHz

17/07/2020

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.84M	5.73652G	5.77336G	37.517M	5.736145G	5.773663G	500k	1
37.14M	5.73622G	5.77336G	37.517M	5.736193G	5.773711G	500k	2

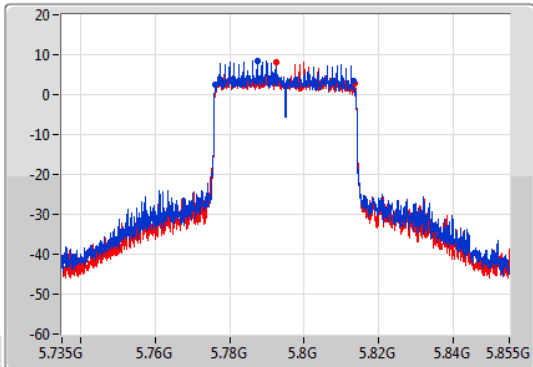
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

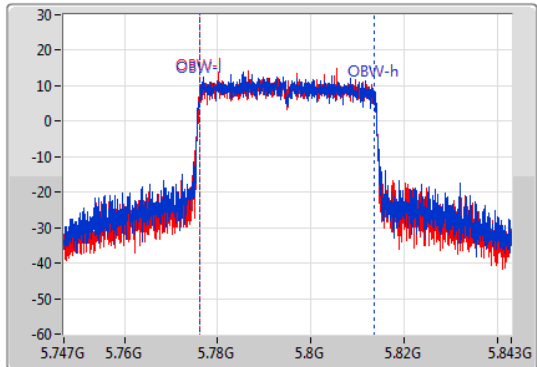
5795MHz

17/07/2020

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.08M	5.77628G	5.81336G	37.565M	5.776145G	5.813711G	500k	1
37.26M	5.77616G	5.81342G	37.565M	5.776097G	5.813663G	500k	2

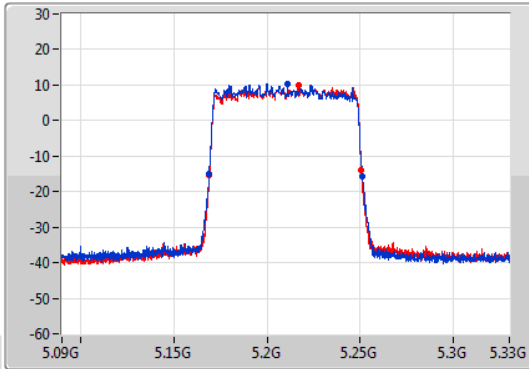
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

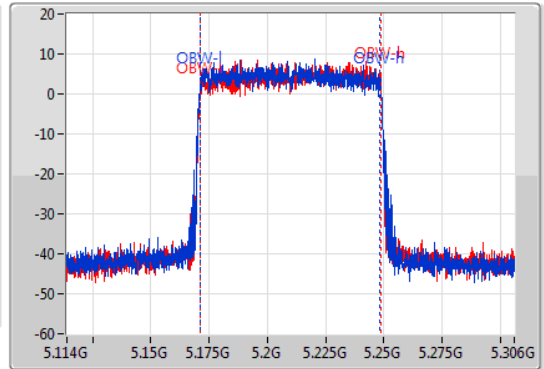
5210MHz

20/07/2020

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.2M	5.16908G	5.25128G	77.049M	5.171331G	5.248381G	Inf	1
81.48M	5.1692G	5.25068G	77.241M	5.171427G	5.248669G	Inf	2

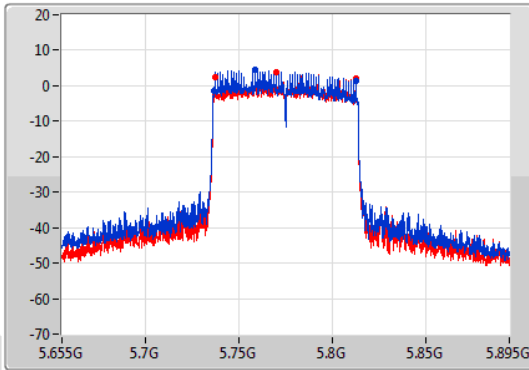
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

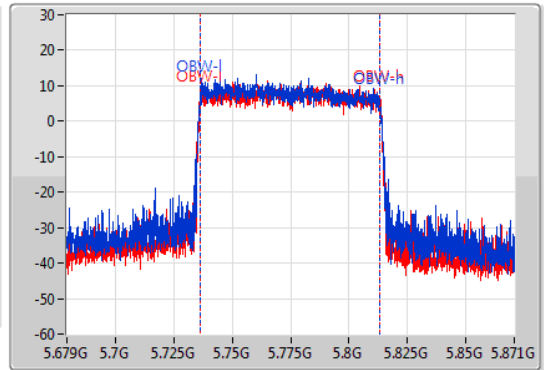
5775MHz

17/07/2020

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.96M	5.7366G	5.81256G	76.858M	5.736331G	5.813189G	500k	1
75M	5.73744G	5.81244G	76.954M	5.736331G	5.813285G	500k	2



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.48M	16.6M	16M6D1D	21.27M	16.576M
802.11n HT20_Nss1,(MCS0)_2TX	21.78M	17.823M	17M8D1D	21.51M	17.727M
802.11n HT40_Nss1,(MCS0)_2TX	40.26M	36.27M	36M3D1D	39.54M	36.174M
802.11ac VHT20_Nss1,(MCS0)_2TX	21.78M	17.775M	17M8D1D	21.48M	17.751M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.26M	36.27M	36M3D1D	39.84M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.96M	77.145M	77M1D1D	81.84M	76.954M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.72M	18.999M	19M0D1D	21.51M	18.951M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.02M	37.565M	37M6D1D	39.84M	37.469M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.08M	77.049M	77M0D1D	81.96M	77.049M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	16.648M	16M6D1D	16.32M	16.6M
802.11n HT20_Nss1,(MCS0)_2TX	17.58M	17.847M	17M8D1D	17.52M	17.727M
802.11n HT40_Nss1,(MCS0)_2TX	36.3M	36.27M	36M3D1D	35.4M	36.222M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.58M	17.847M	17M8D1D	17.55M	17.775M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	36.27M	36M3D1D	35.7M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.48M	75.802M	75M8D1D	75.36M	75.802M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.87M	19.022M	19M0D1D	18.78M	18.975M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.2M	37.565M	37M6D1D	36.36M	37.469M
802.11ax HEW80_Nss1,(MCS0)_2TX	76.08M	77.049M	77M0D1D	75.6M	76.954M

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

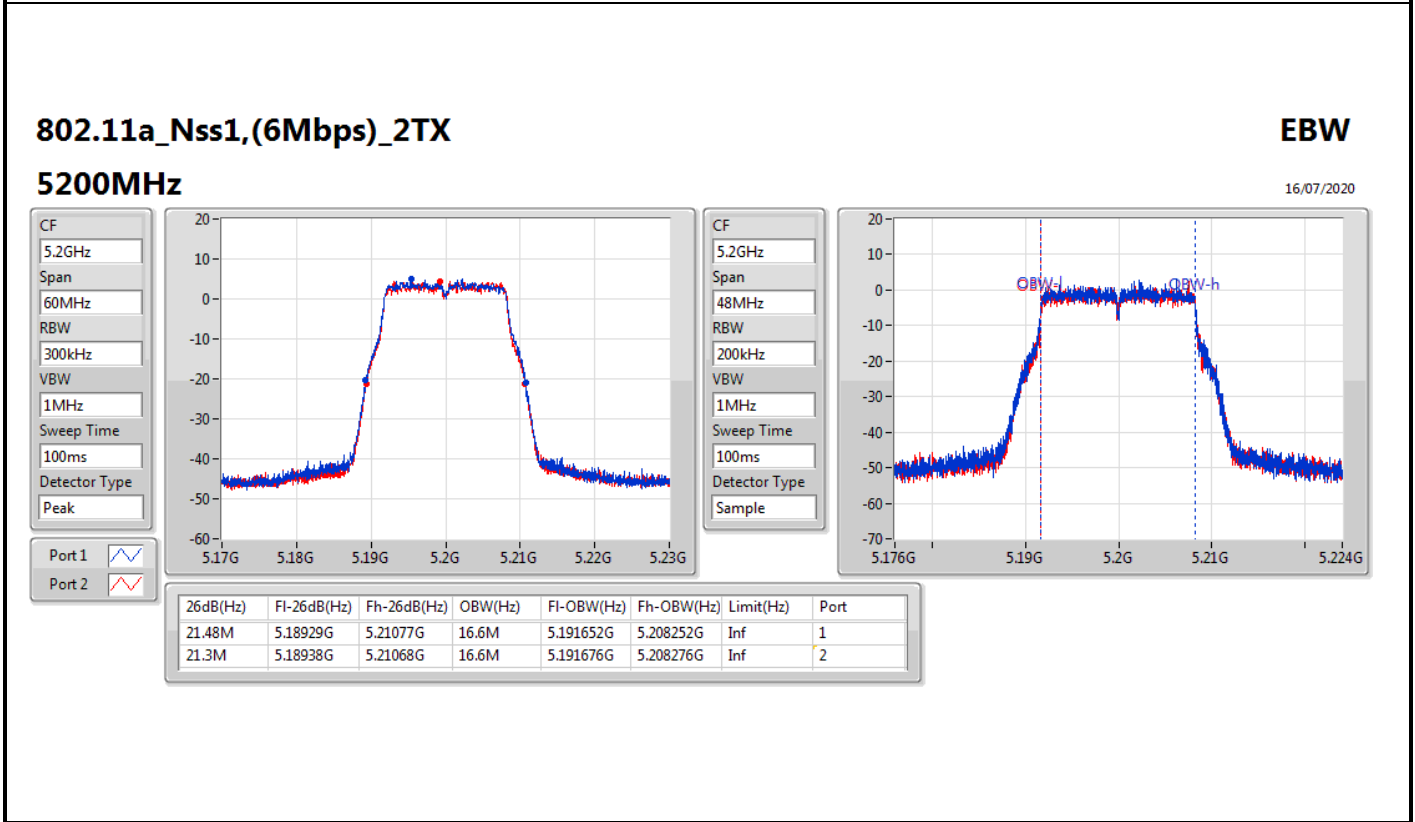
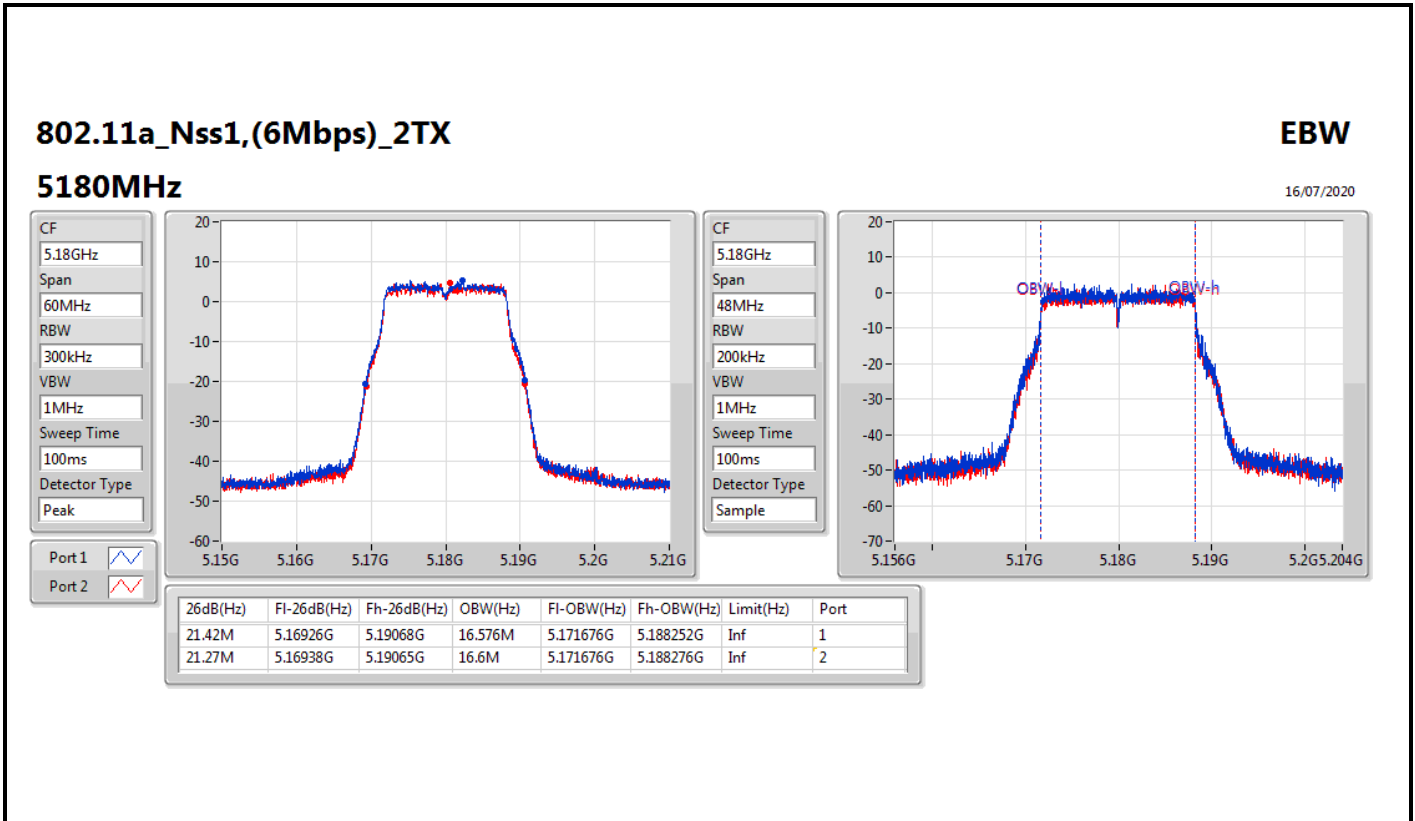
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	16.576M	21.27M	16.6M
5200MHz	Pass	Inf	21.48M	16.6M	21.3M	16.6M
5240MHz	Pass	Inf	21.48M	16.576M	21.3M	16.576M
5745MHz	Pass	500k	16.35M	16.624M	16.35M	16.624M
5785MHz	Pass	500k	16.32M	16.6M	16.32M	16.6M
5825MHz	Pass	500k	16.32M	16.648M	16.32M	16.624M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.78M	17.799M	21.51M	17.751M
5200MHz	Pass	Inf	21.78M	17.823M	21.51M	17.751M
5240MHz	Pass	Inf	21.75M	17.775M	21.54M	17.727M
5745MHz	Pass	500k	17.55M	17.799M	17.58M	17.751M
5785MHz	Pass	500k	17.52M	17.847M	17.55M	17.727M
5825MHz	Pass	500k	17.55M	17.823M	17.58M	17.775M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	36.222M	39.54M	36.27M
5230MHz	Pass	Inf	40.26M	36.174M	39.54M	36.222M
5755MHz	Pass	500k	35.4M	36.222M	36.3M	36.27M
5795MHz	Pass	500k	36.3M	36.27M	36.3M	36.222M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.78M	17.751M	21.54M	17.751M
5200MHz	Pass	Inf	21.75M	17.751M	21.6M	17.751M
5240MHz	Pass	Inf	21.72M	17.751M	21.48M	17.775M
5745MHz	Pass	500k	17.55M	17.775M	17.58M	17.775M
5785MHz	Pass	500k	17.55M	17.847M	17.55M	17.775M
5825MHz	Pass	500k	17.55M	17.799M	17.55M	17.799M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	36.27M	39.96M	36.222M
5230MHz	Pass	Inf	40.2M	36.27M	39.84M	36.222M
5755MHz	Pass	500k	36M	36.27M	36.3M	36.222M
5795MHz	Pass	500k	35.7M	36.27M	36.3M	36.27M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	76.954M	81.84M	77.145M
5775MHz	Pass	500k	75.48M	75.802M	75.36M	75.802M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.72M	18.999M	21.51M	18.999M
5200MHz	Pass	Inf	21.69M	18.975M	21.57M	18.951M
5240MHz	Pass	Inf	21.72M	18.975M	21.54M	18.975M
5745MHz	Pass	500k	18.87M	18.975M	18.87M	18.999M
5785MHz	Pass	500k	18.78M	18.975M	18.87M	18.975M
5825MHz	Pass	500k	18.78M	19.022M	18.78M	18.999M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.565M	39.84M	37.517M
5230MHz	Pass	Inf	40.02M	37.469M	39.84M	37.565M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5755MHz	Pass	500k	36.54M	37.469M	36.36M	37.565M
5795MHz	Pass	500k	37.2M	37.469M	37.2M	37.565M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.049M	81.96M	77.049M
5775MHz	Pass	500k	76.08M	77.049M	75.6M	76.954M

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

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



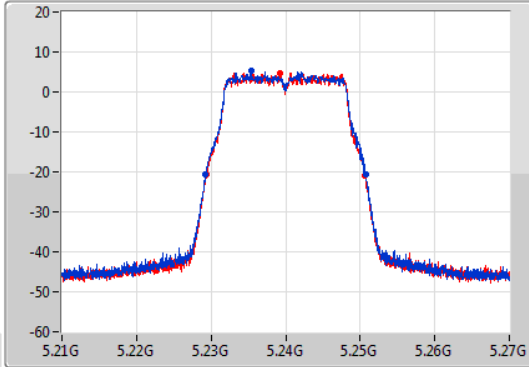
802.11a_Nss1,(6Mbps)_2TX

EBW

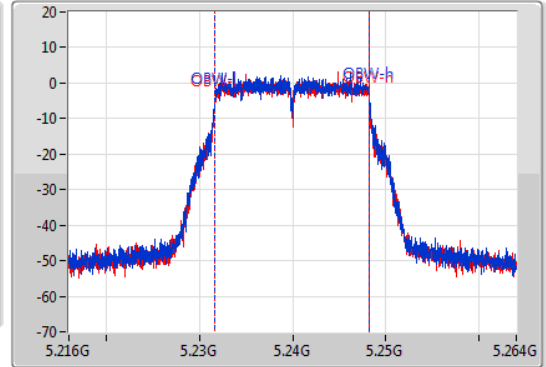
5240MHz

16/07/2020

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.48M	5.22926G	5.25074G	16.576M	5.231676G	5.248252G	Inf	1
21.3M	5.22938G	5.25068G	16.576M	5.231676G	5.248252G	Inf	2

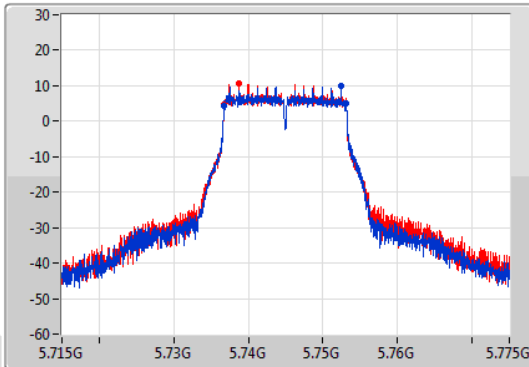
802.11a_Nss1,(6Mbps)_2TX

EBW

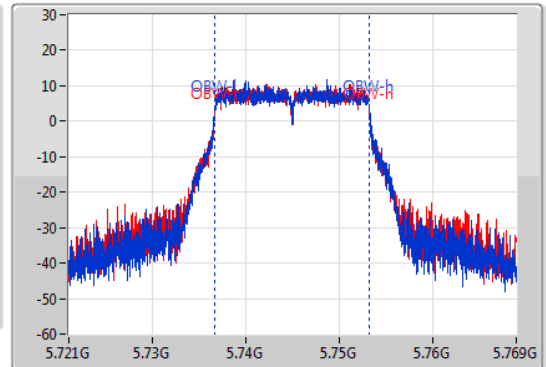
5745MHz

15/07/2020

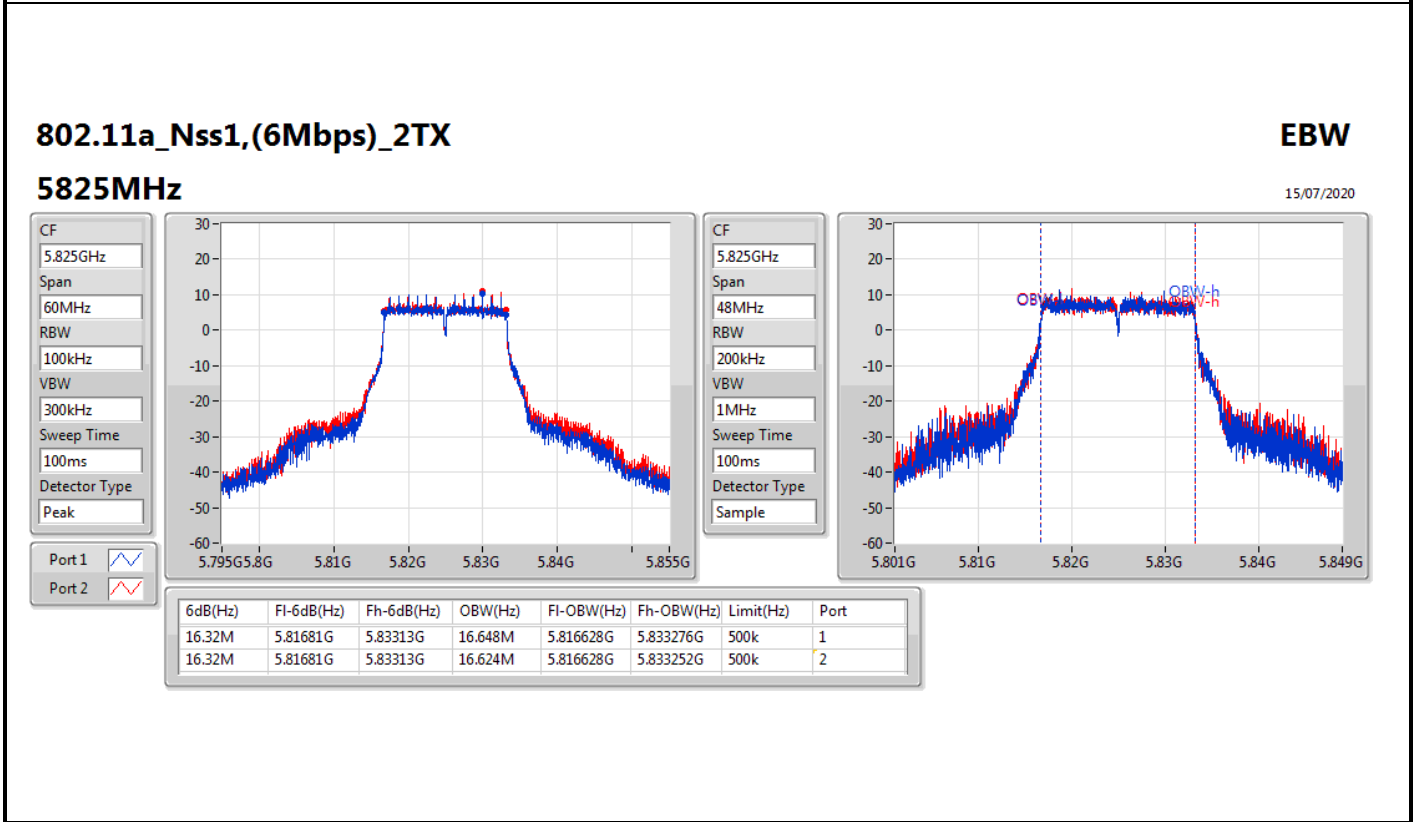
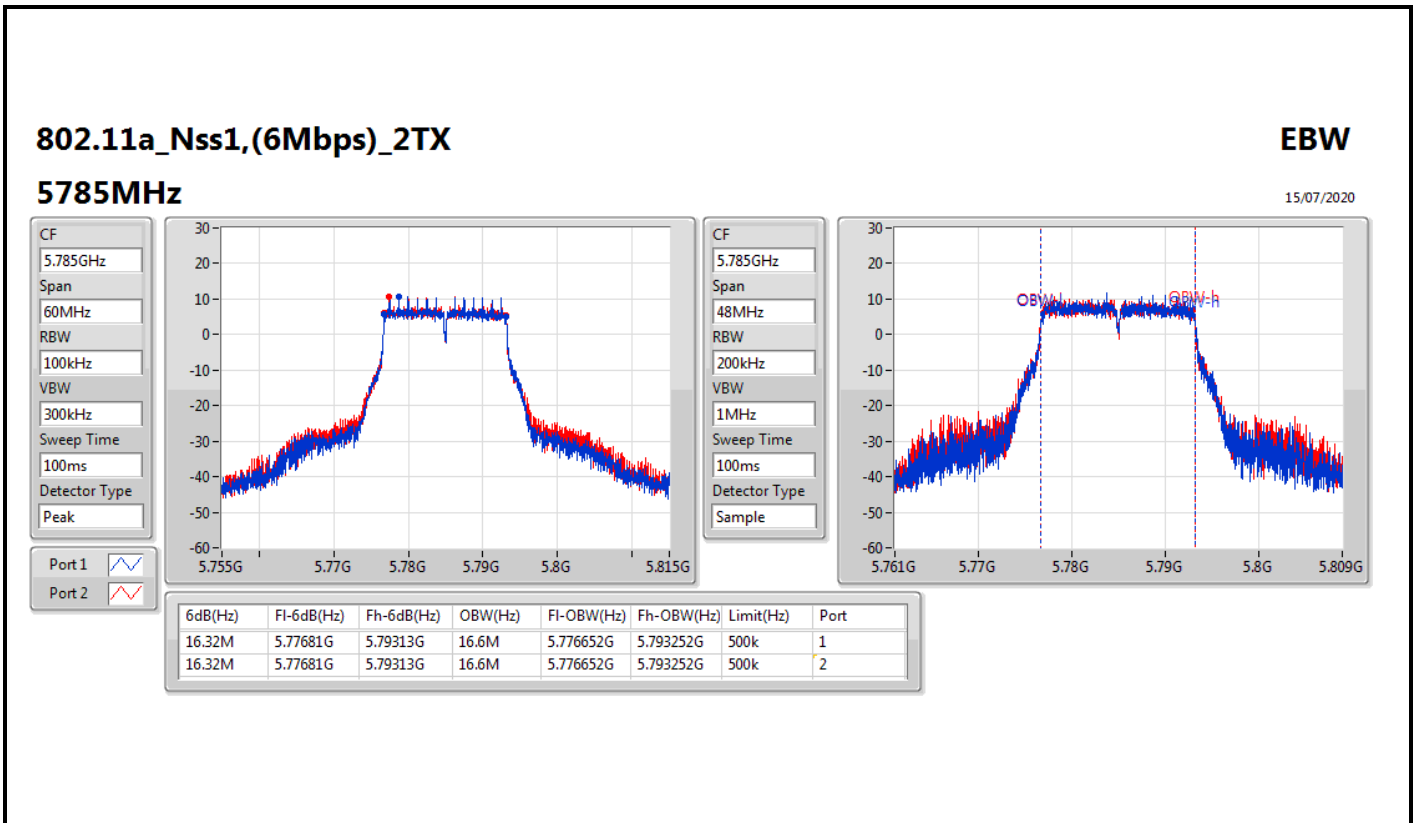
CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak

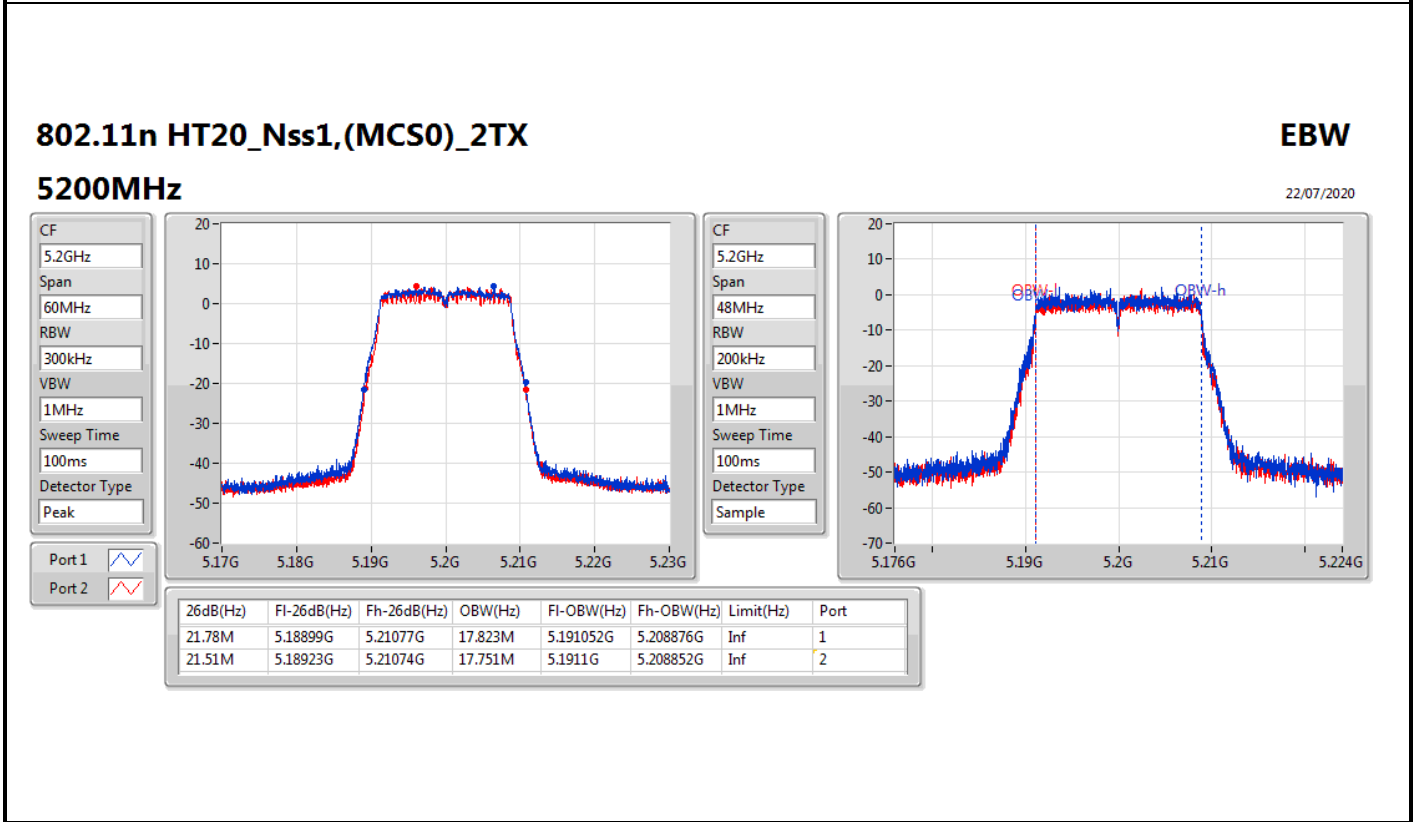
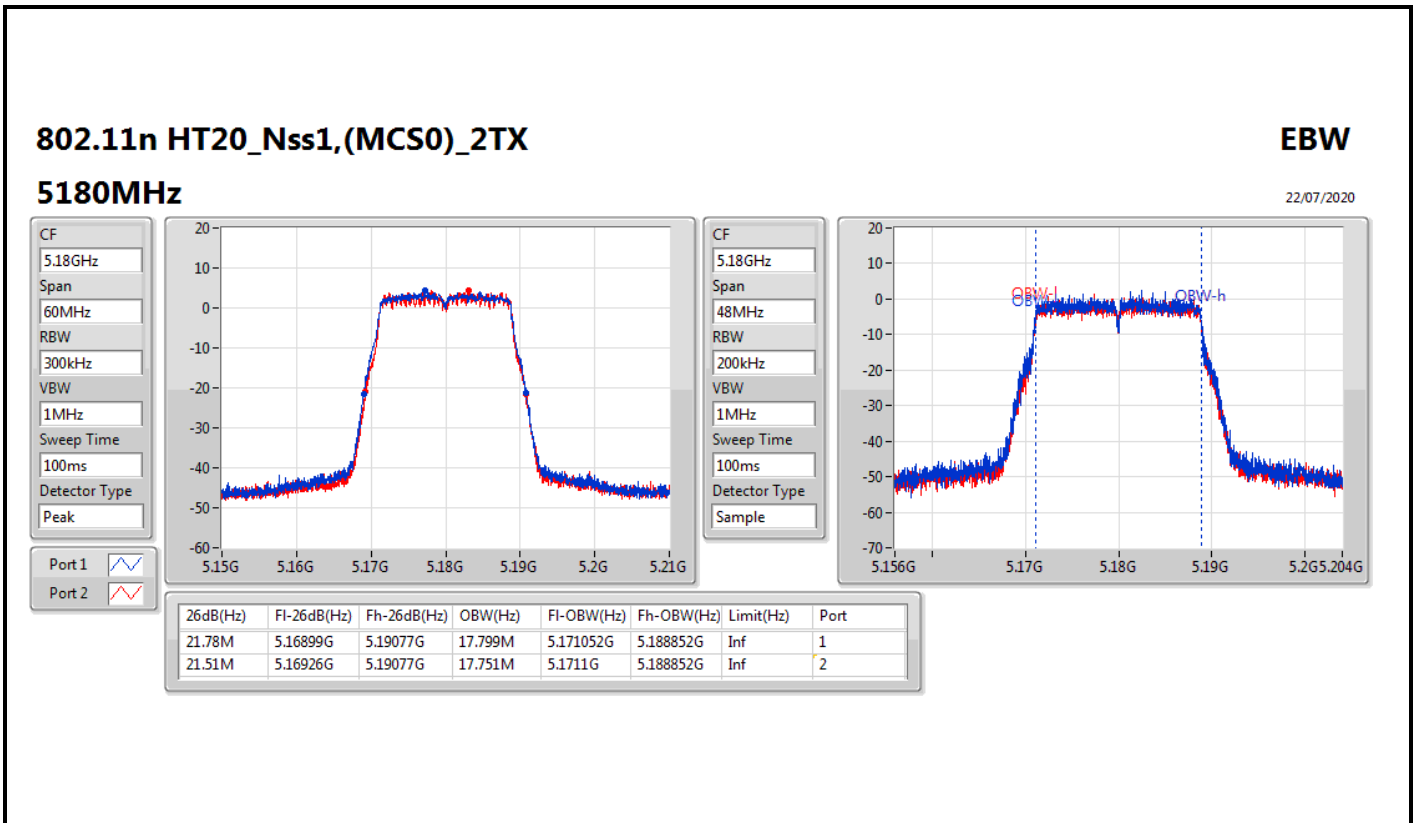


CF
5.745GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.73678G	5.75313G	16.624M	5.736628G	5.753252G	500k	1
16.35M	5.73678G	5.75313G	16.624M	5.736628G	5.753252G	500k	2





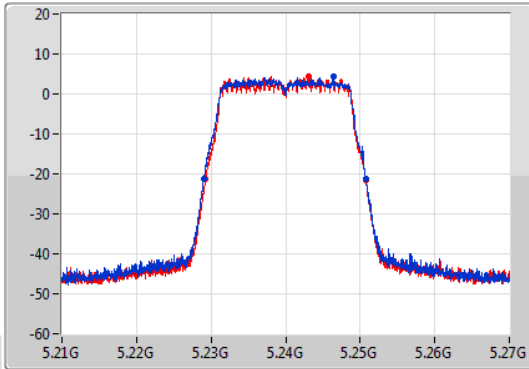
802.11n HT20_Nss1,(MCS0)_2TX

EBW

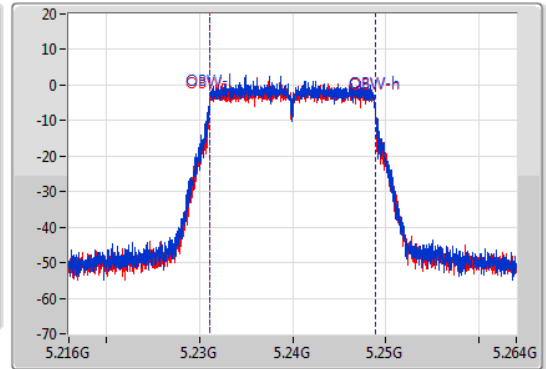
5240MHz

22/07/2020

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.22902G	5.25077G	17.775M	5.231052G	5.248828G	Inf	1
21.54M	5.22923G	5.25077G	17.727M	5.2311G	5.248828G	Inf	2

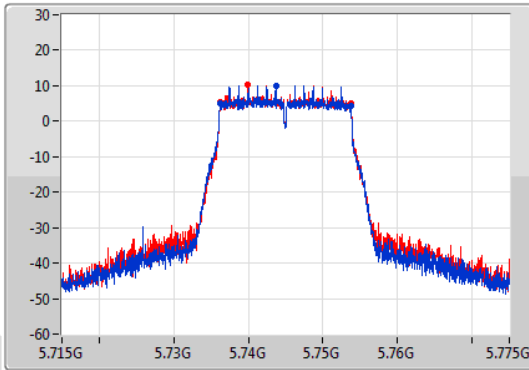
802.11n HT20_Nss1,(MCS0)_2TX

EBW

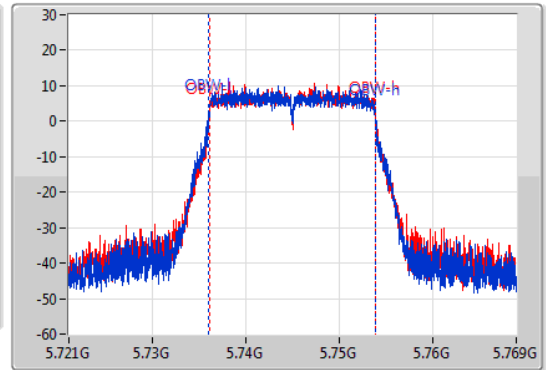
5745MHz

22/07/2020

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



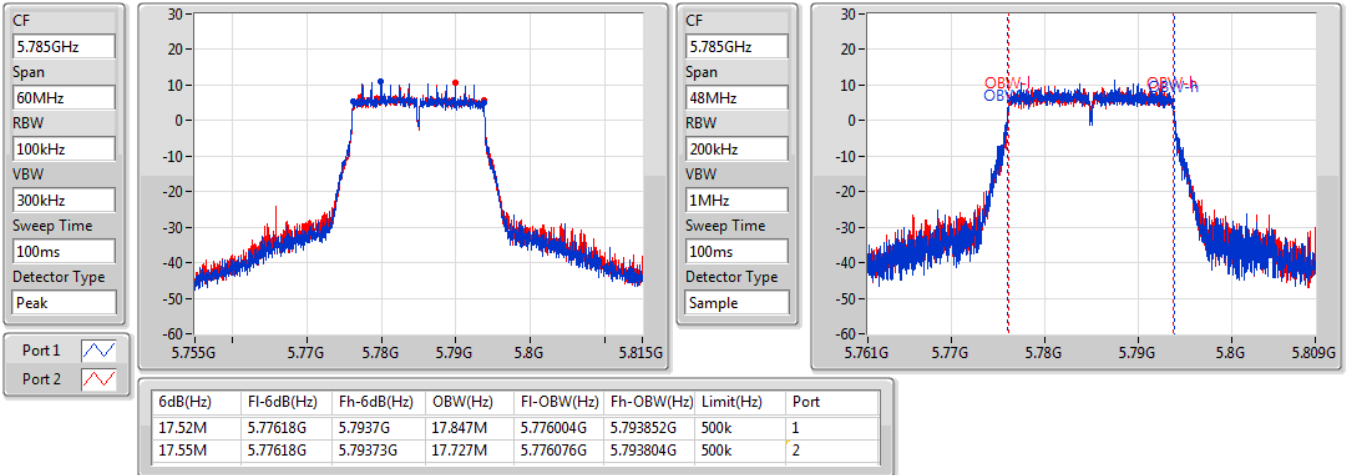
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.73618G	5.75373G	17.799M	5.736028G	5.753828G	500k	1
17.58M	5.73618G	5.75376G	17.751M	5.736076G	5.753828G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX

EBW

5785MHz

22/07/2020

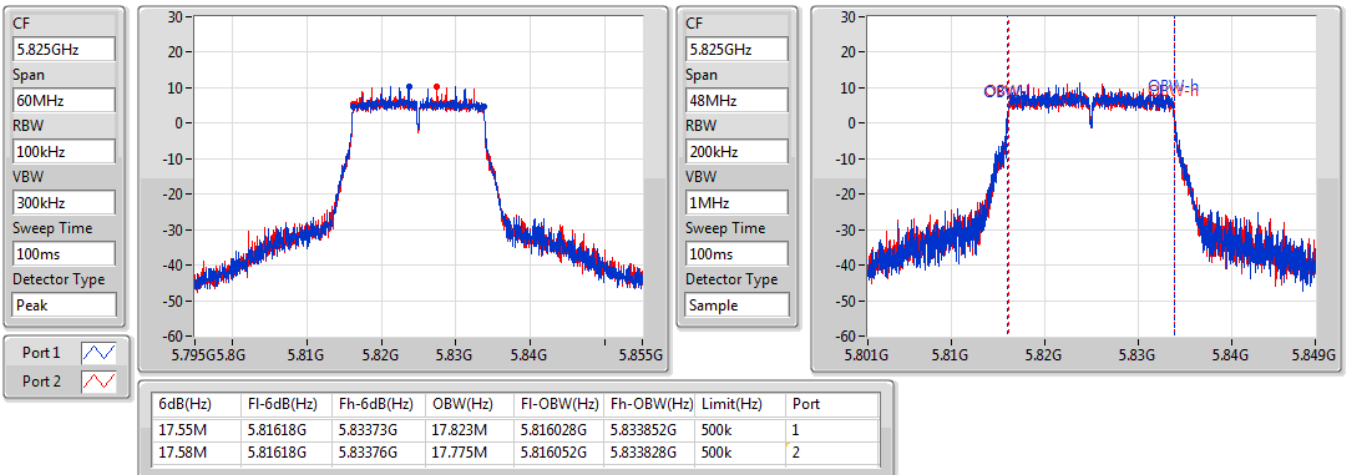


802.11n HT20_Nss1,(MCS0)_2TX

EBW

5825MHz

22/07/2020



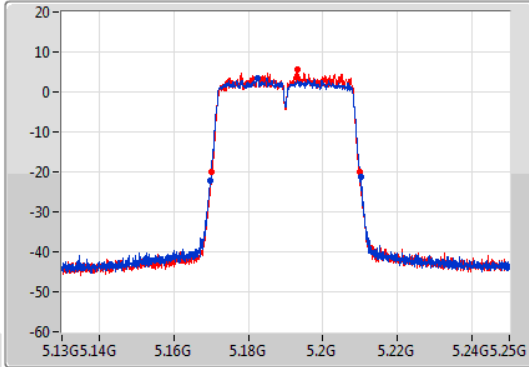
802.11n HT40_Nss1,(MCS0)_2TX

EBW

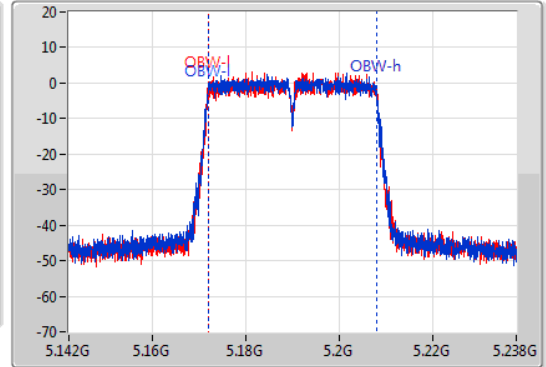
5190MHz

22/07/2020

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.16984G	5.2101G	36.222M	5.171817G	5.208039G	Inf	1
39.54M	5.1702G	5.20974G	36.27M	5.171817G	5.208087G	Inf	2

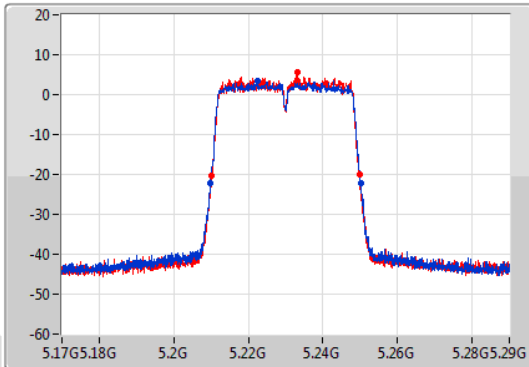
802.11n HT40_Nss1,(MCS0)_2TX

EBW

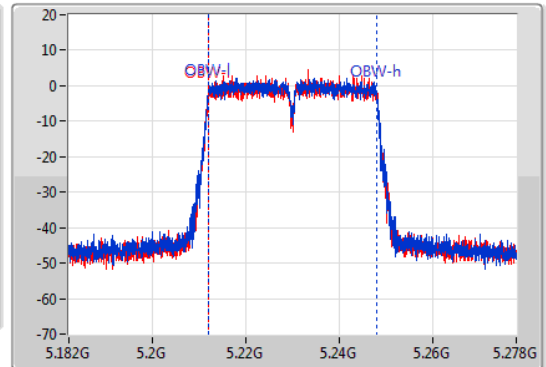
5230MHz

22/07/2020

CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



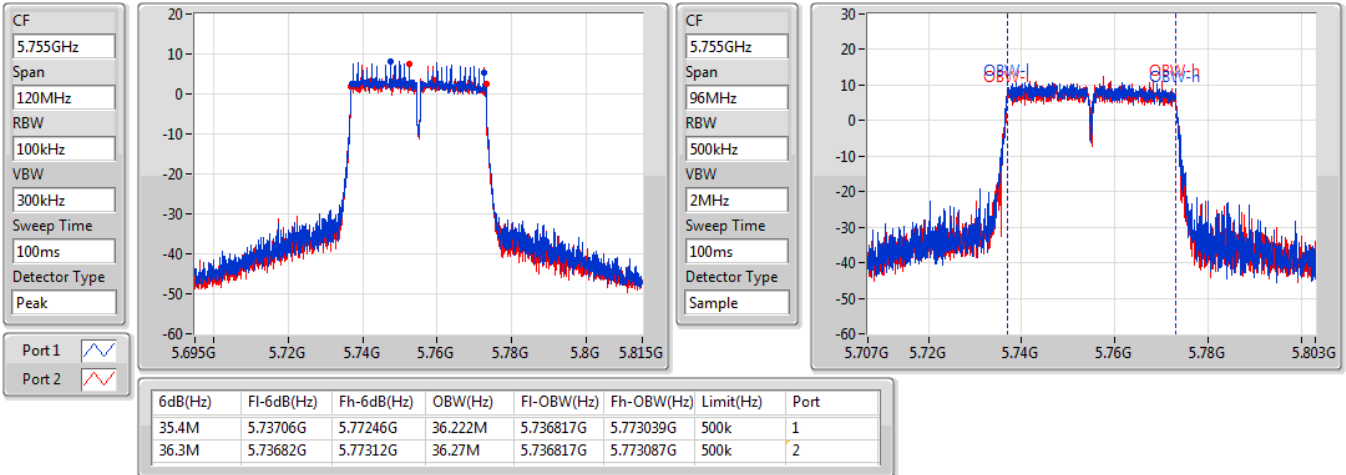
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.20984G	5.2501G	36.174M	5.211865G	5.248039G	Inf	1
39.54M	5.2102G	5.24974G	36.222M	5.211865G	5.248087G	Inf	2

802.11n HT40_Nss1,(MCS0)_2TX

EBW

5755MHz

22/07/2020

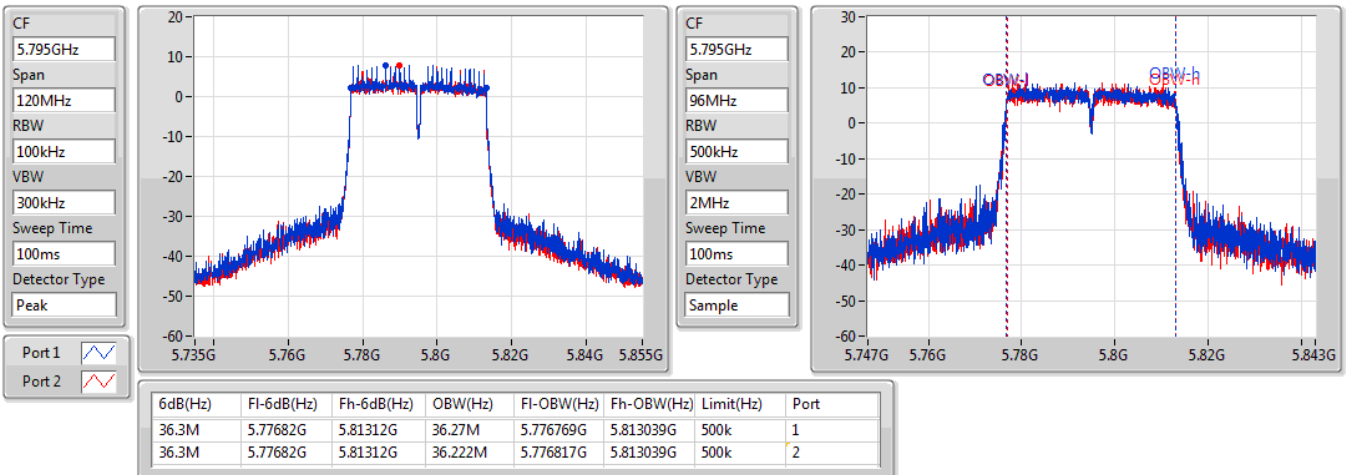


802.11n HT40_Nss1,(MCS0)_2TX

EBW

5795MHz

22/07/2020

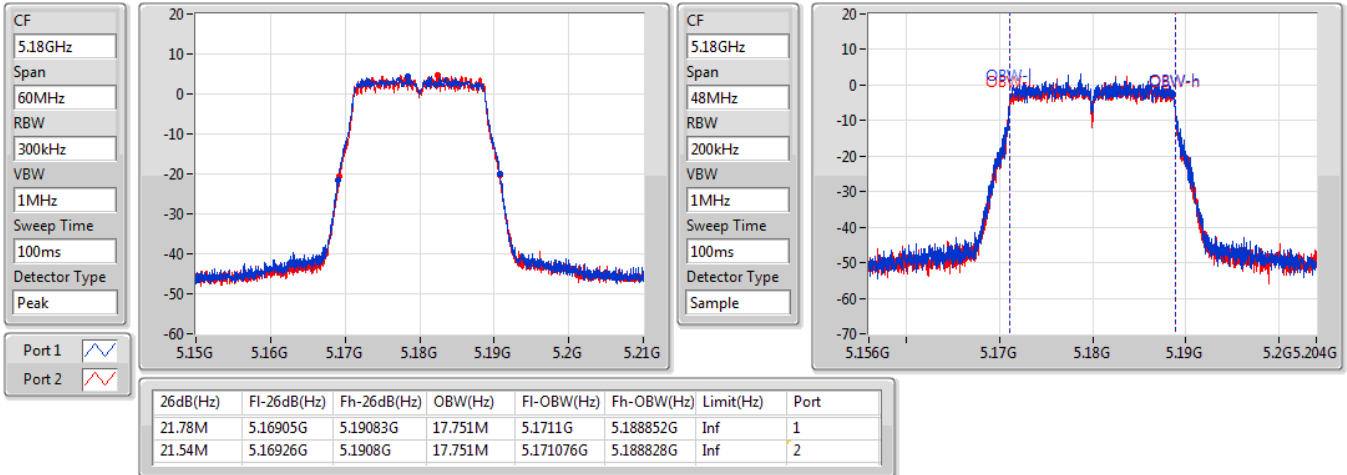


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

16/07/2020

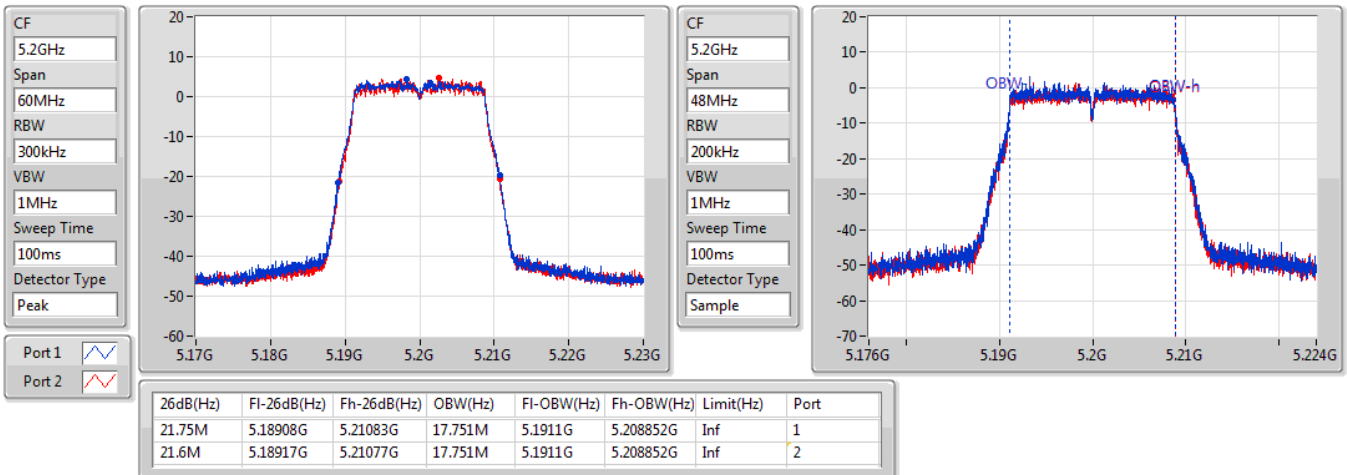


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

16/07/2020

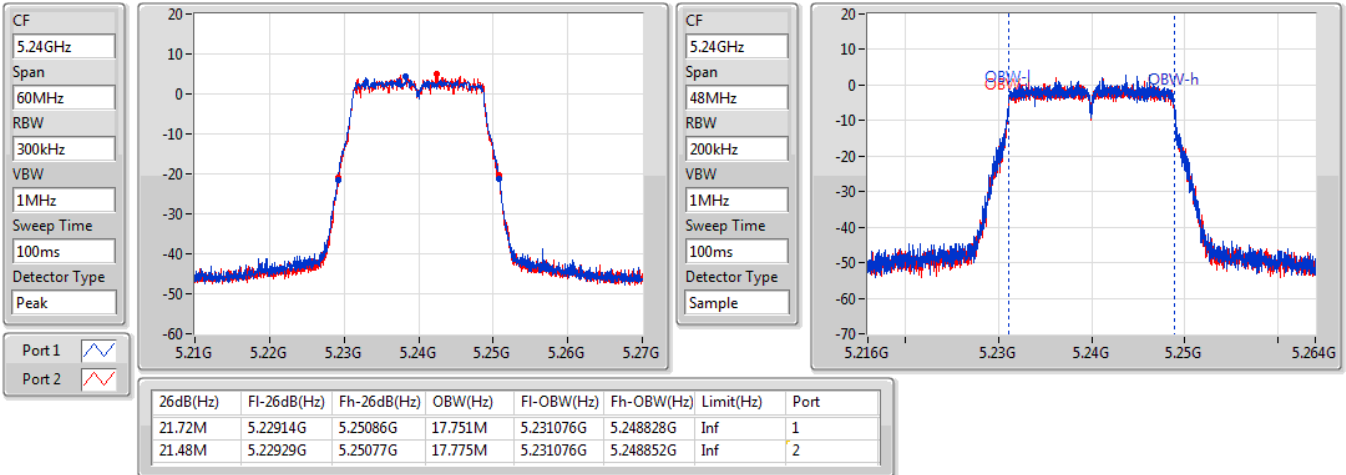


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

16/07/2020

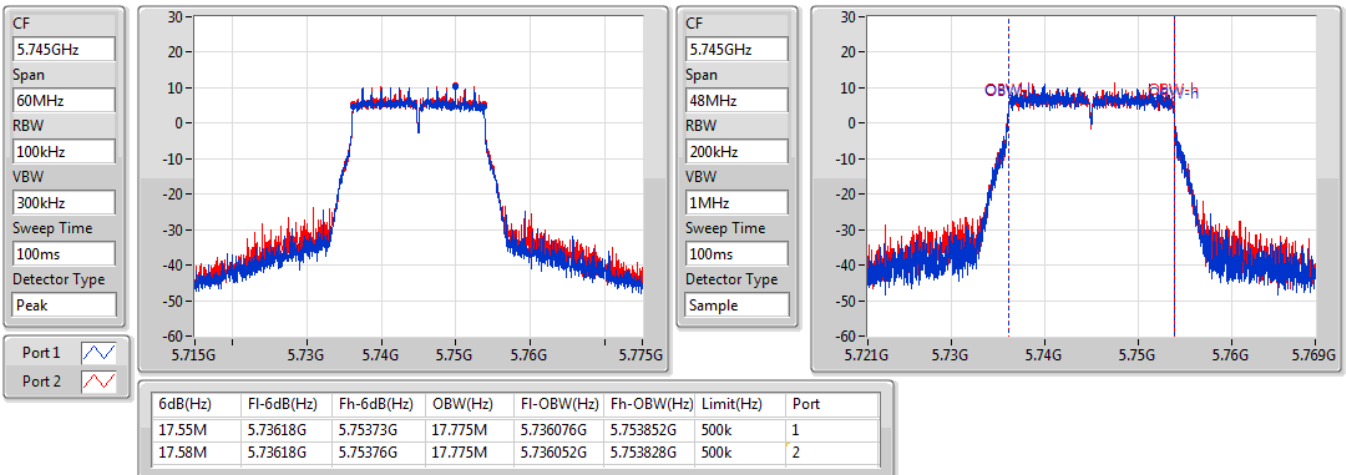


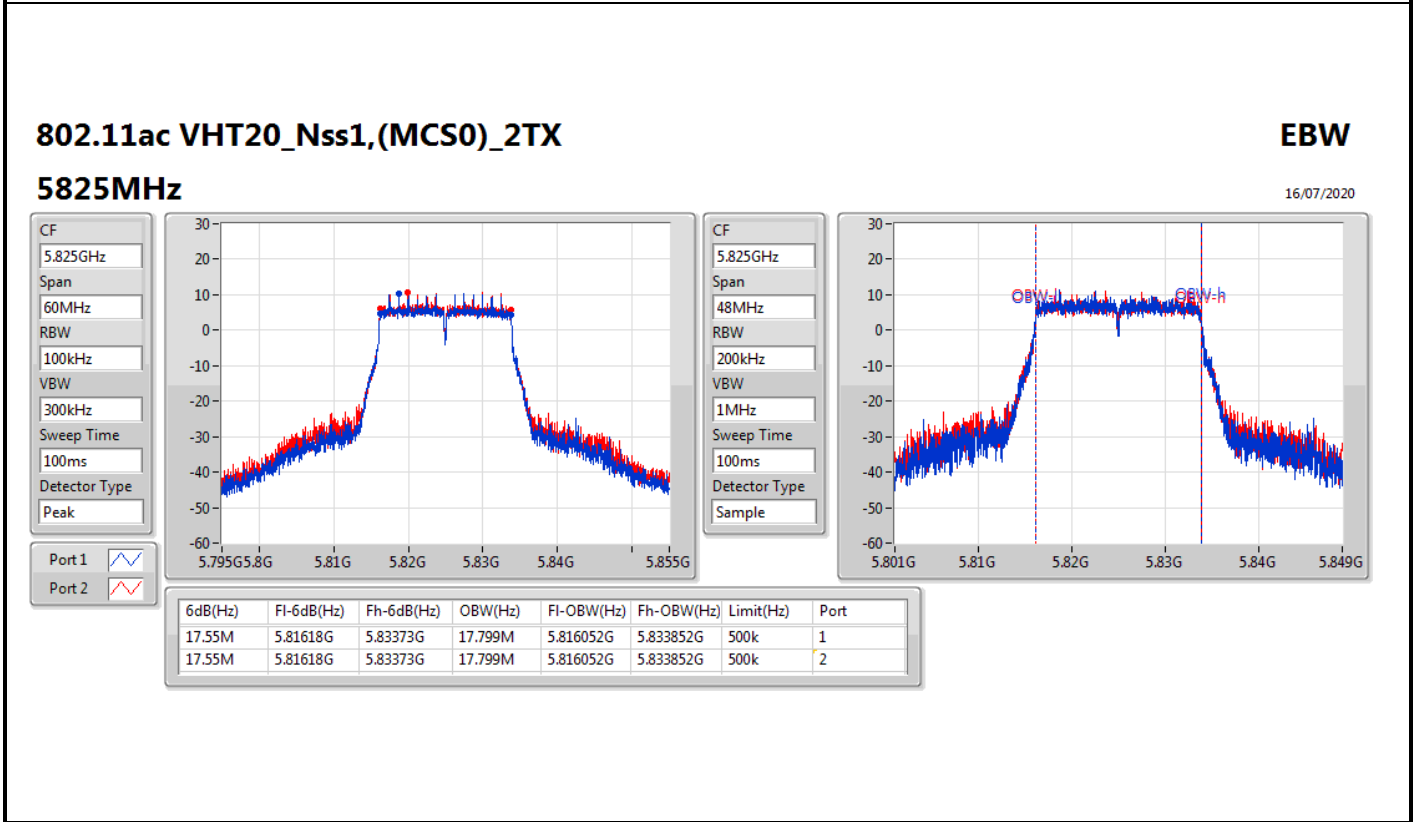
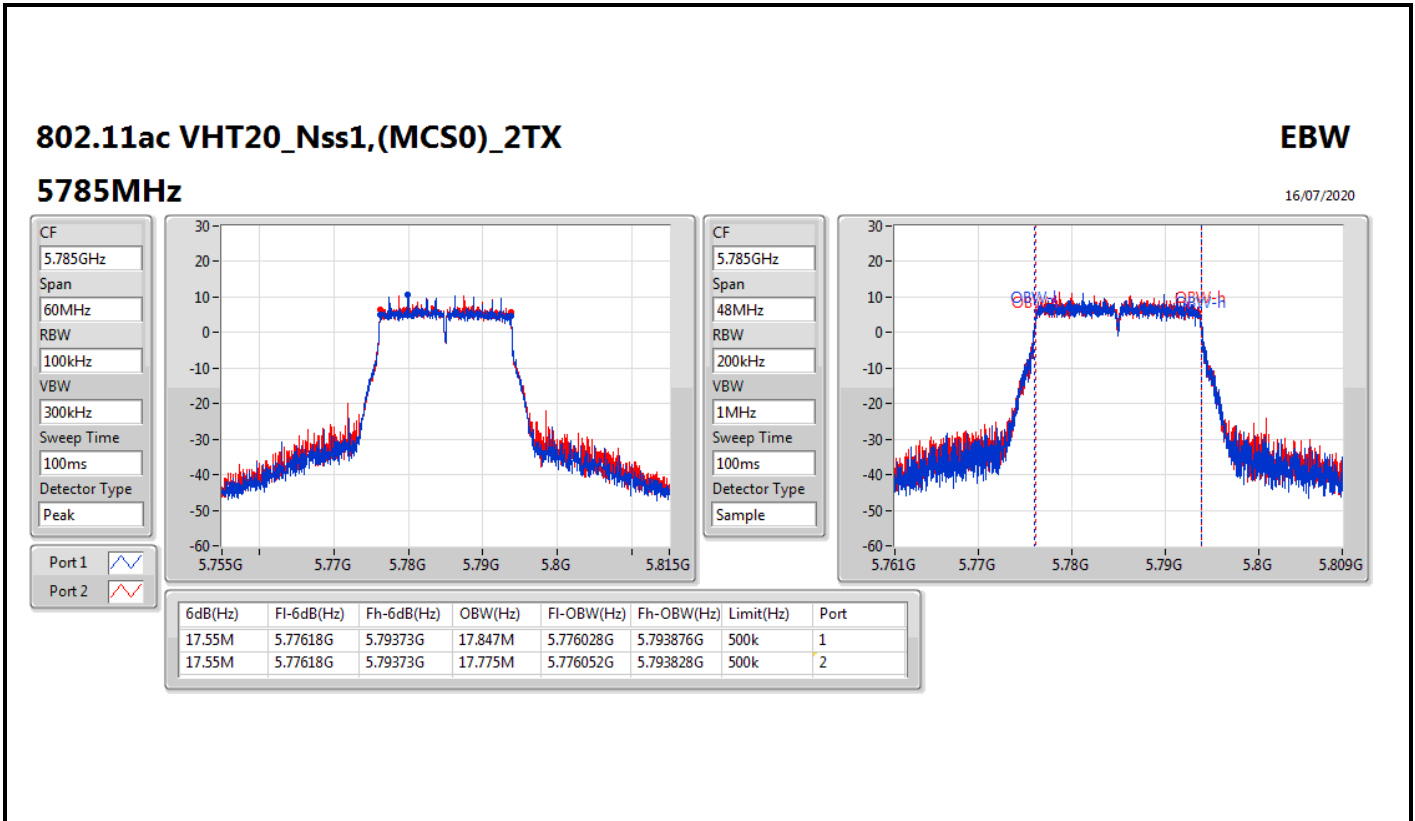
802.11ac VHT20_Nss1,(MCS0)_2TX

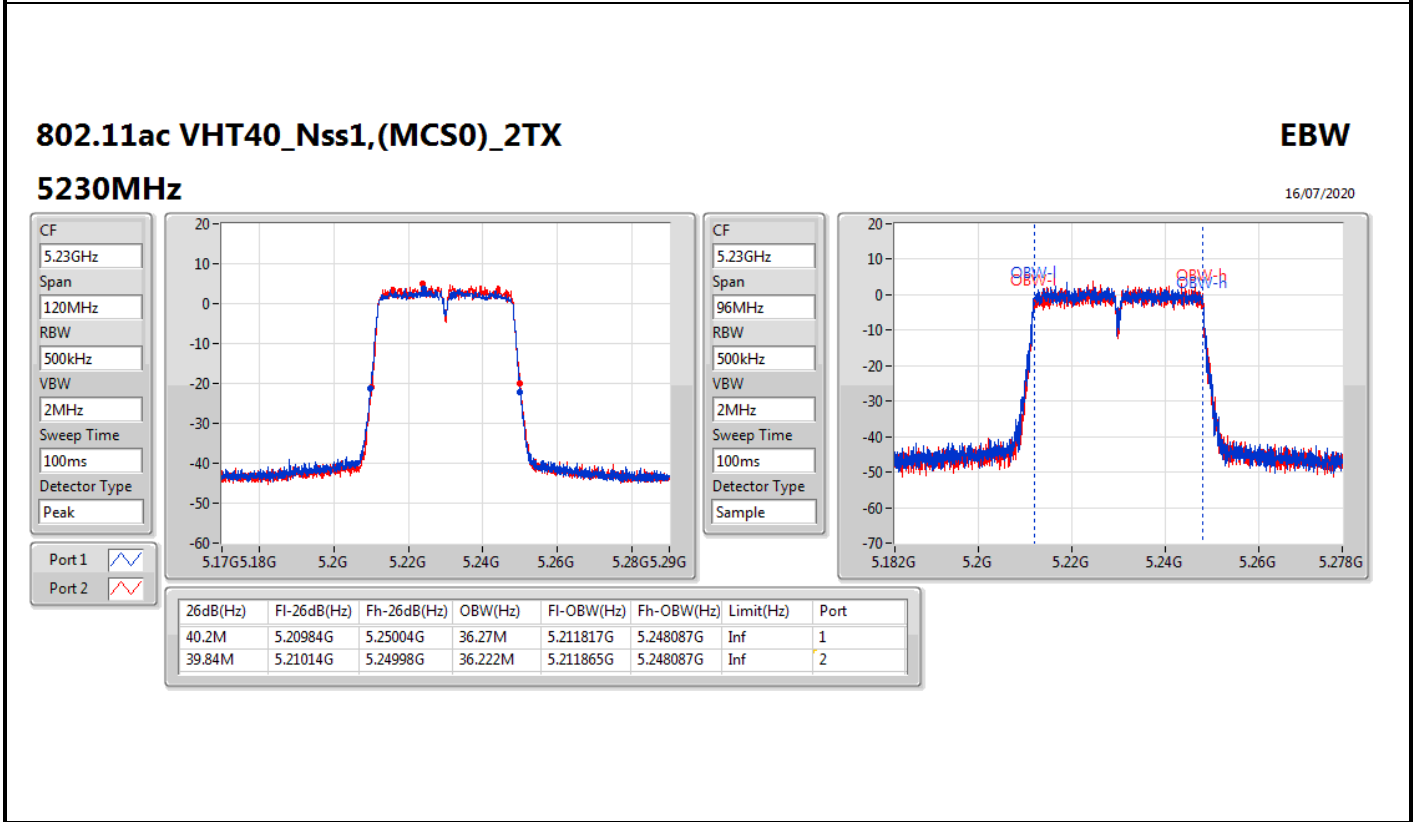
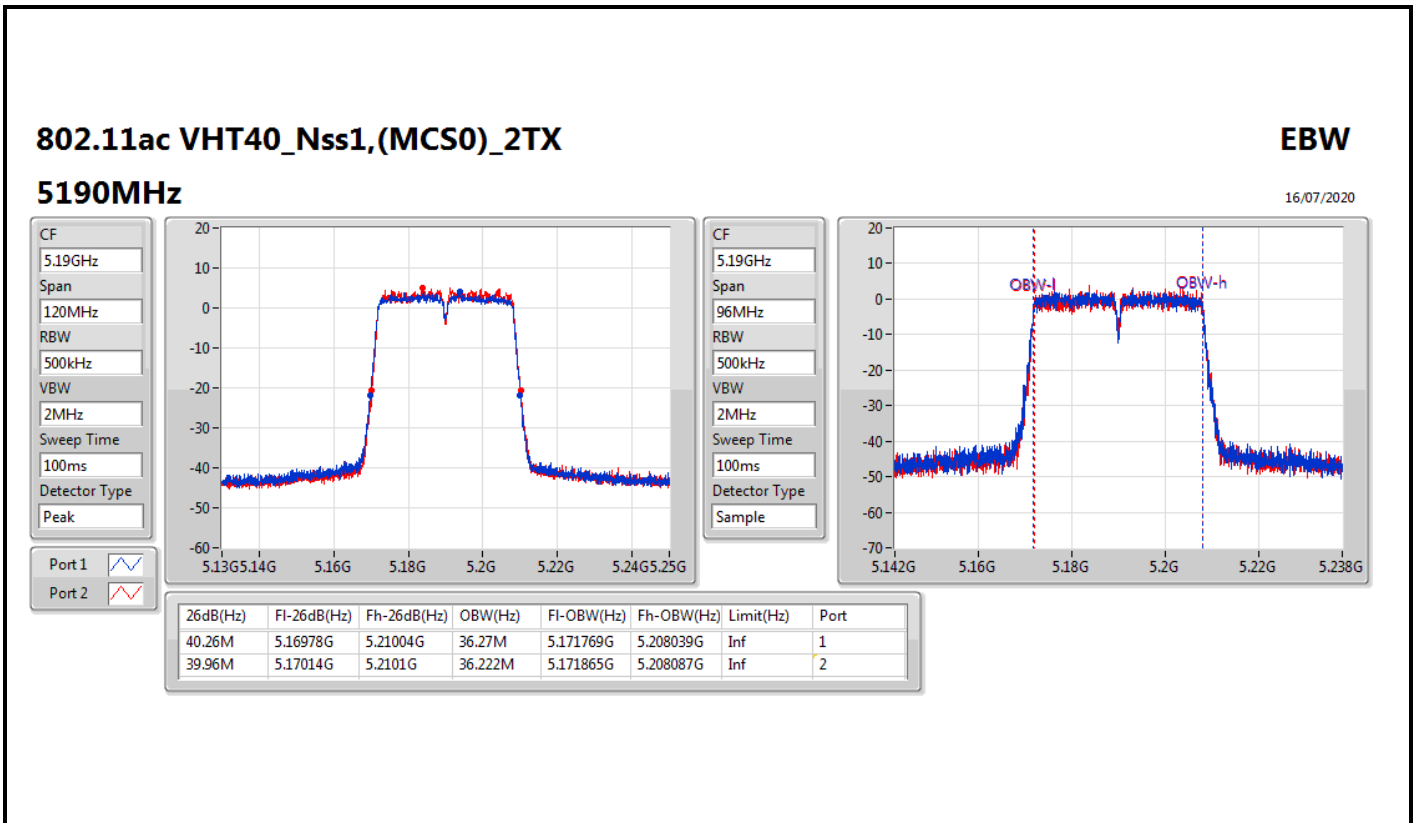
EBW

5745MHz

16/07/2020







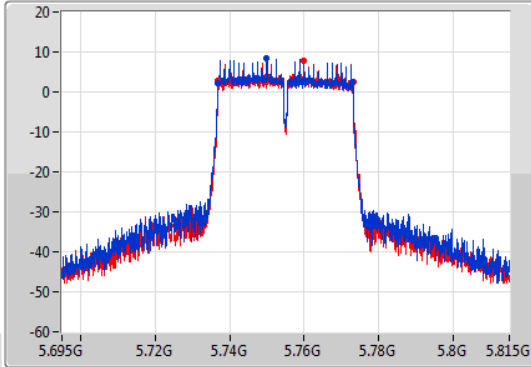
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

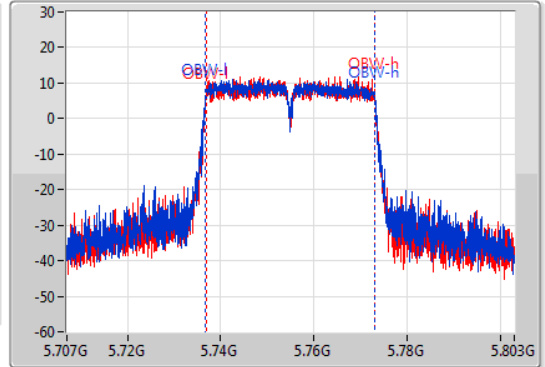
5755MHz

16/07/2020

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36M	5.73682G	5.77282G	36.27M	5.736769G	5.773039G	500k	1
36.3M	5.73682G	5.77312G	36.222M	5.736817G	5.773039G	500k	2

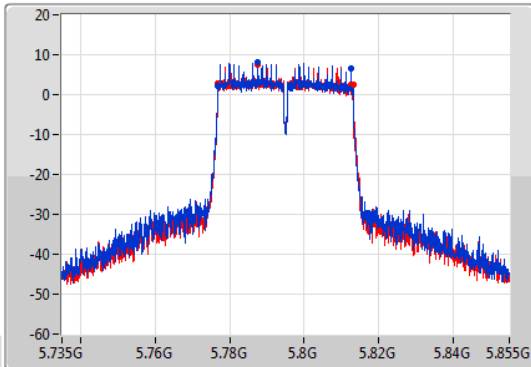
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

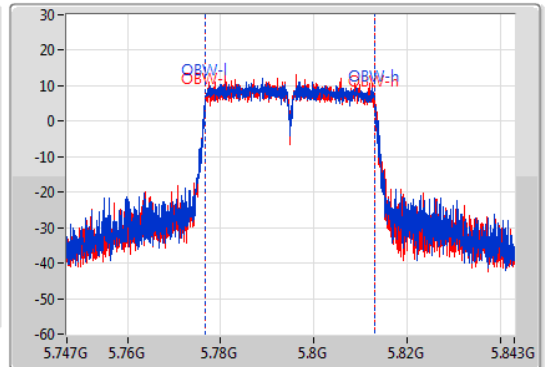
5795MHz

16/07/2020

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.7M	5.77682G	5.81252G	36.27M	5.776769G	5.813039G	500k	1
36.3M	5.77682G	5.81312G	36.27M	5.776769G	5.813039G	500k	2

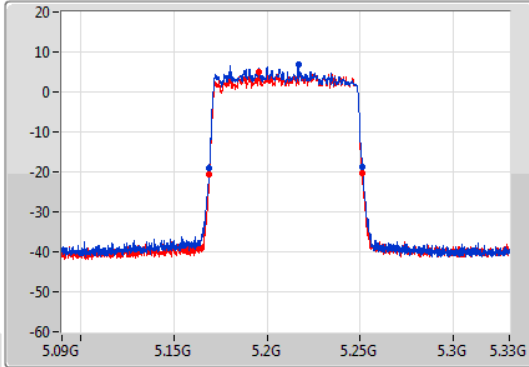
802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

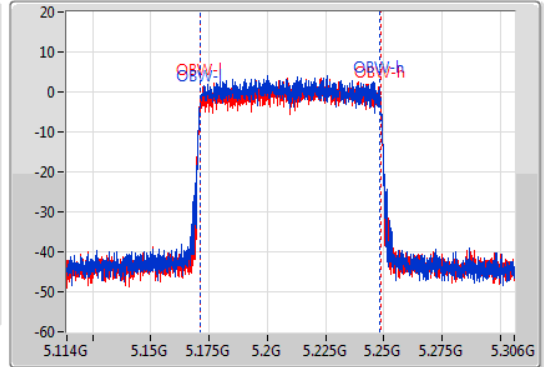
5210MHz

16/07/2020

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.96M	5.16908G	5.25104G	76.954M	5.171427G	5.248381G	Inf	1
81.84M	5.16908G	5.25092G	77.145M	5.171427G	5.248573G	Inf	2

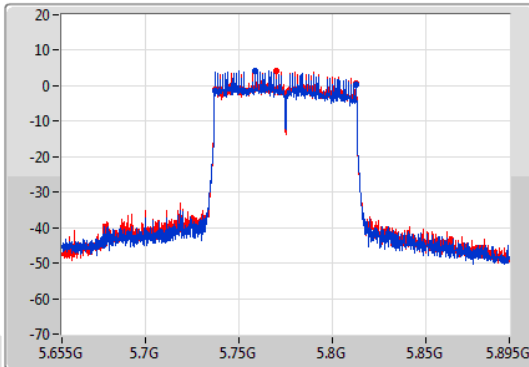
802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

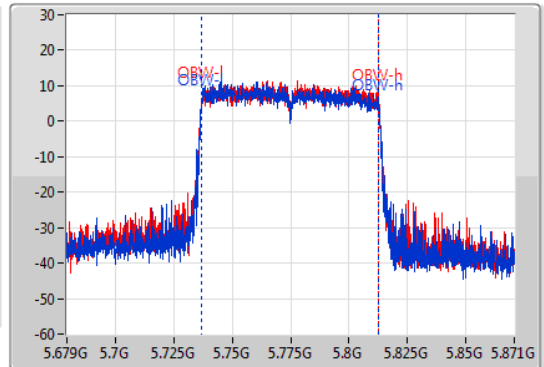
5775MHz

16/07/2020

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



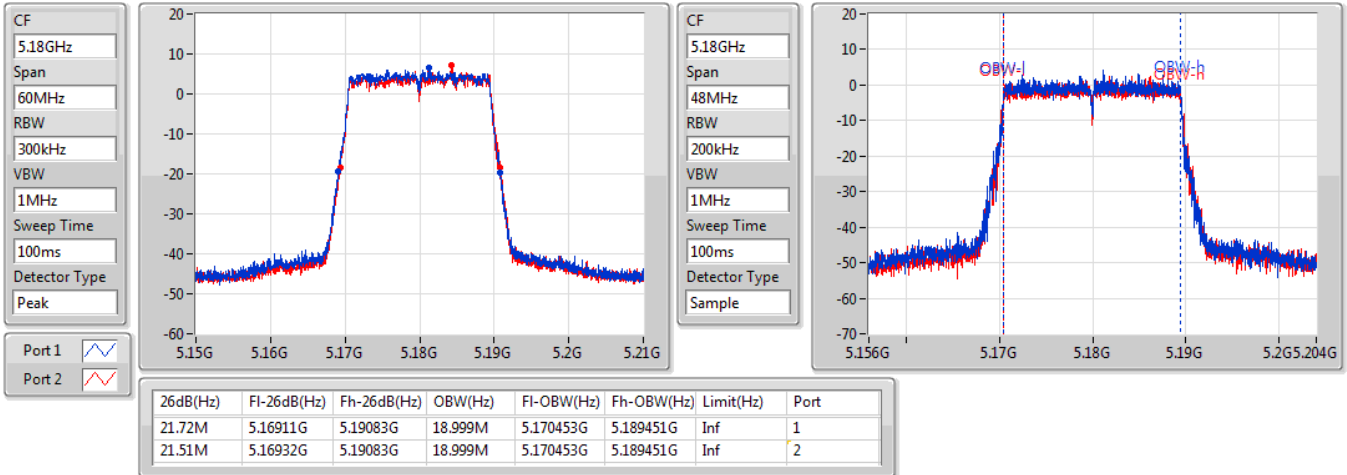
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.48M	5.73708G	5.81256G	75.802M	5.736907G	5.812709G	500k	1
75.36M	5.7372G	5.81256G	75.802M	5.736907G	5.812709G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

16/07/2020

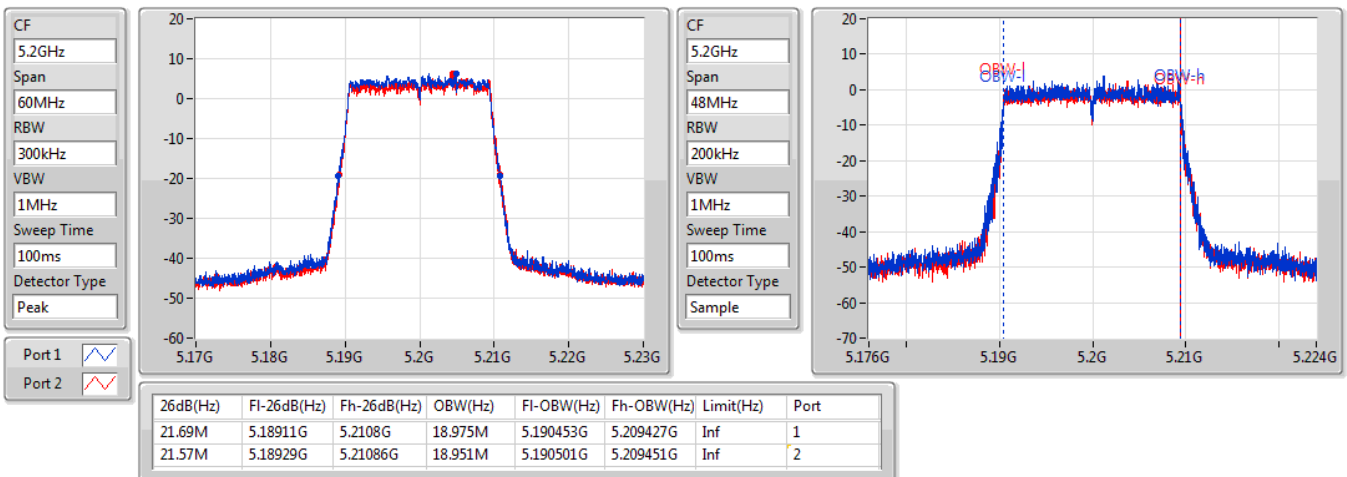


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

16/07/2020



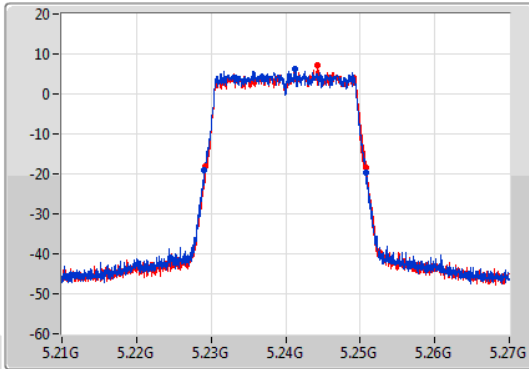
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

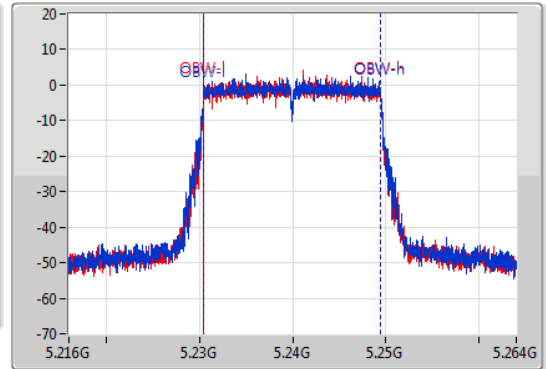
5240MHz

16/07/2020

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.72M	5.22911G	5.25083G	18.975M	5.230477G	5.249451G	Inf	1
21.54M	5.22929G	5.25083G	18.975M	5.230477G	5.249451G	Inf	2

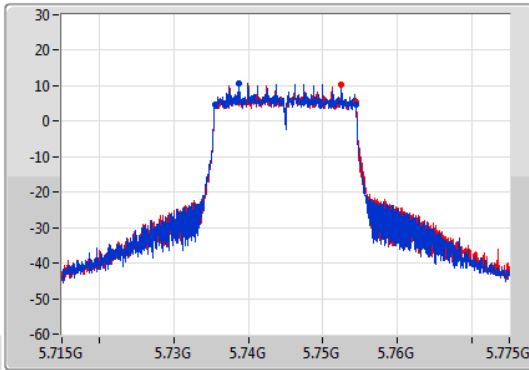
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

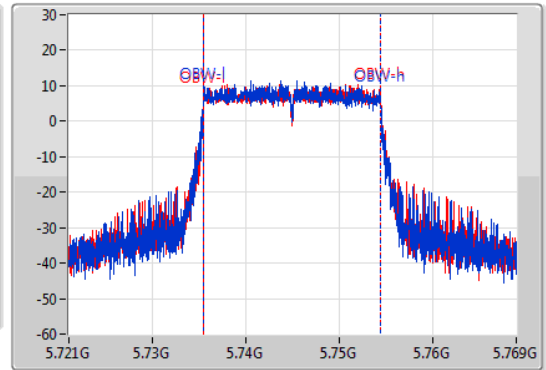
5745MHz

16/07/2020

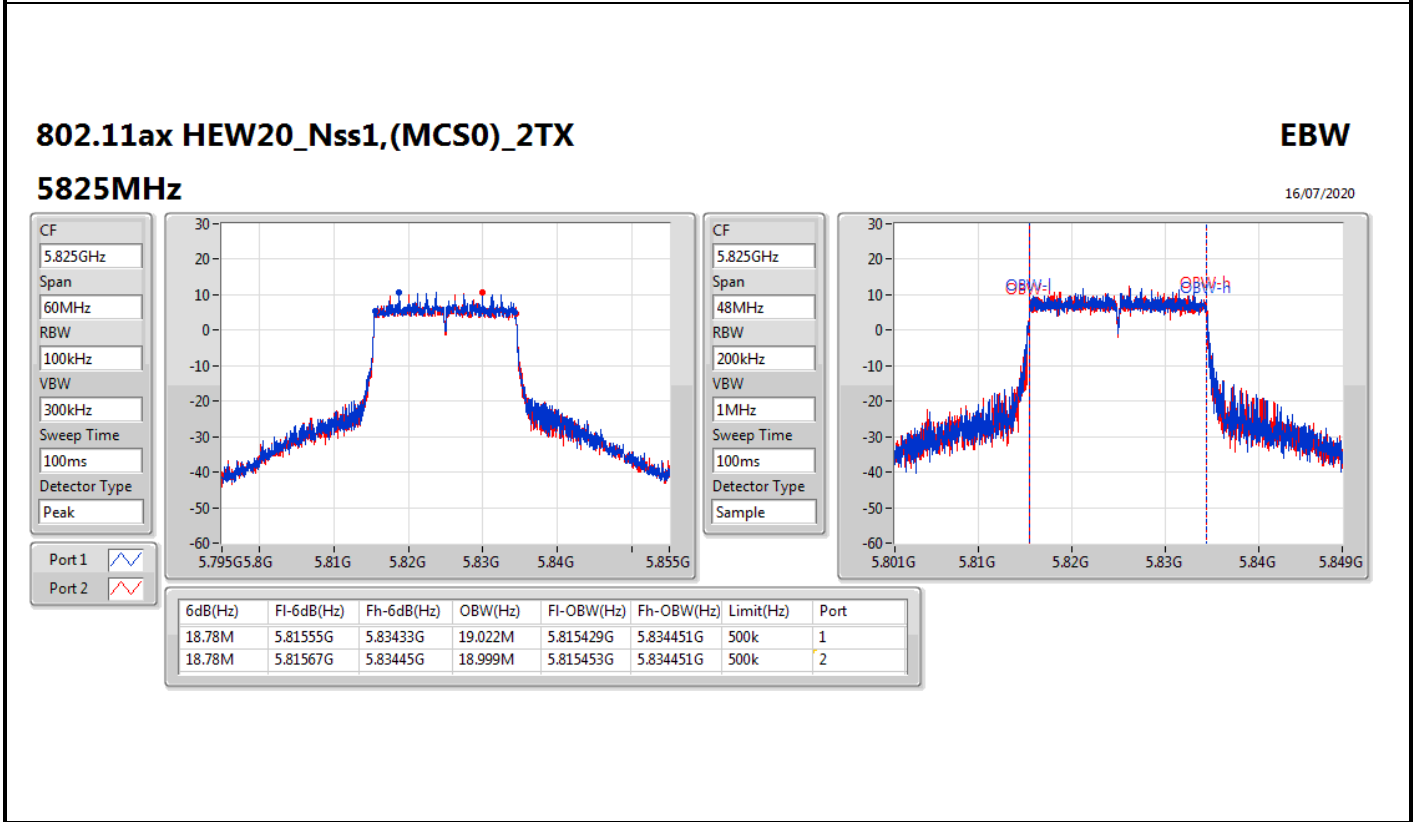
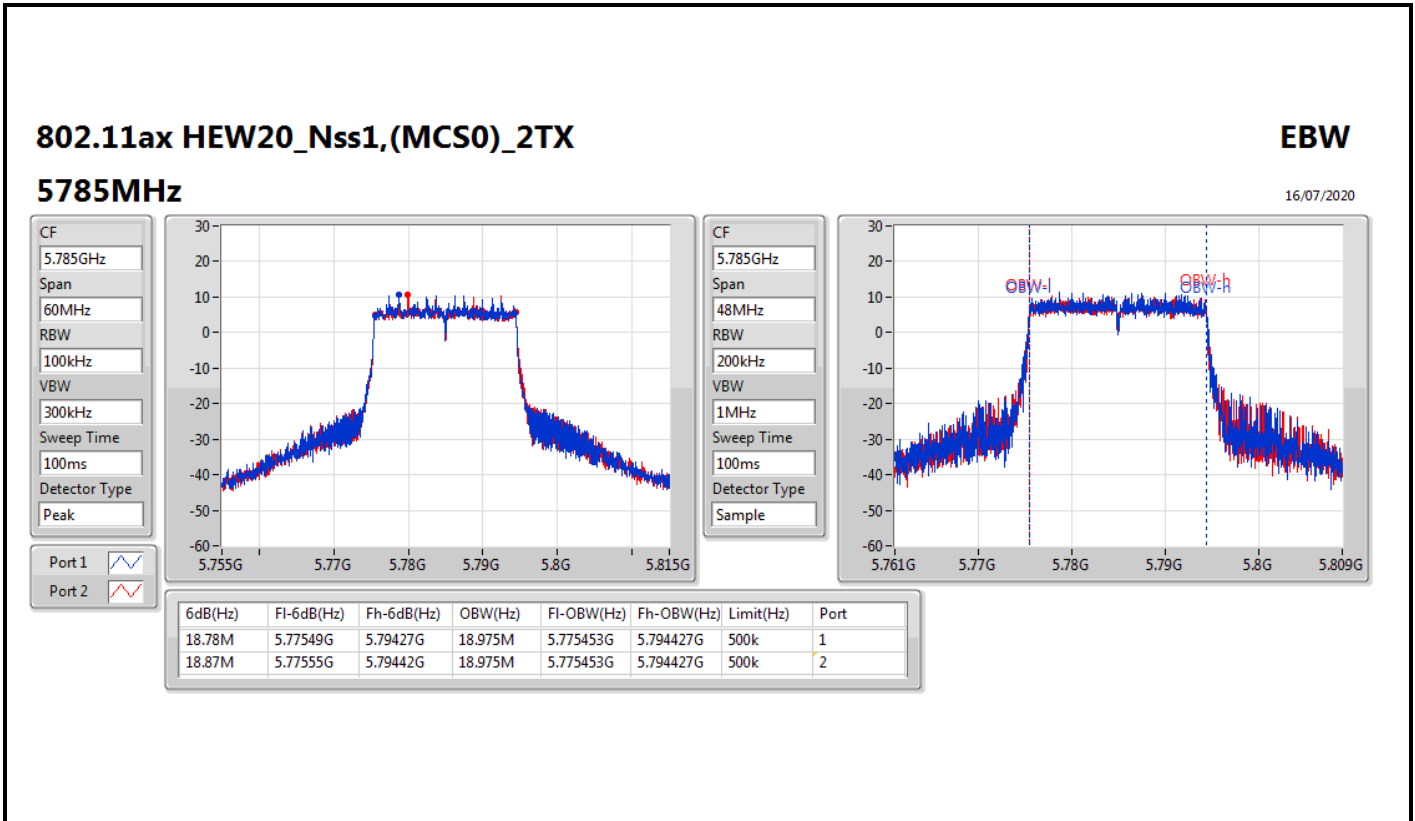
CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak

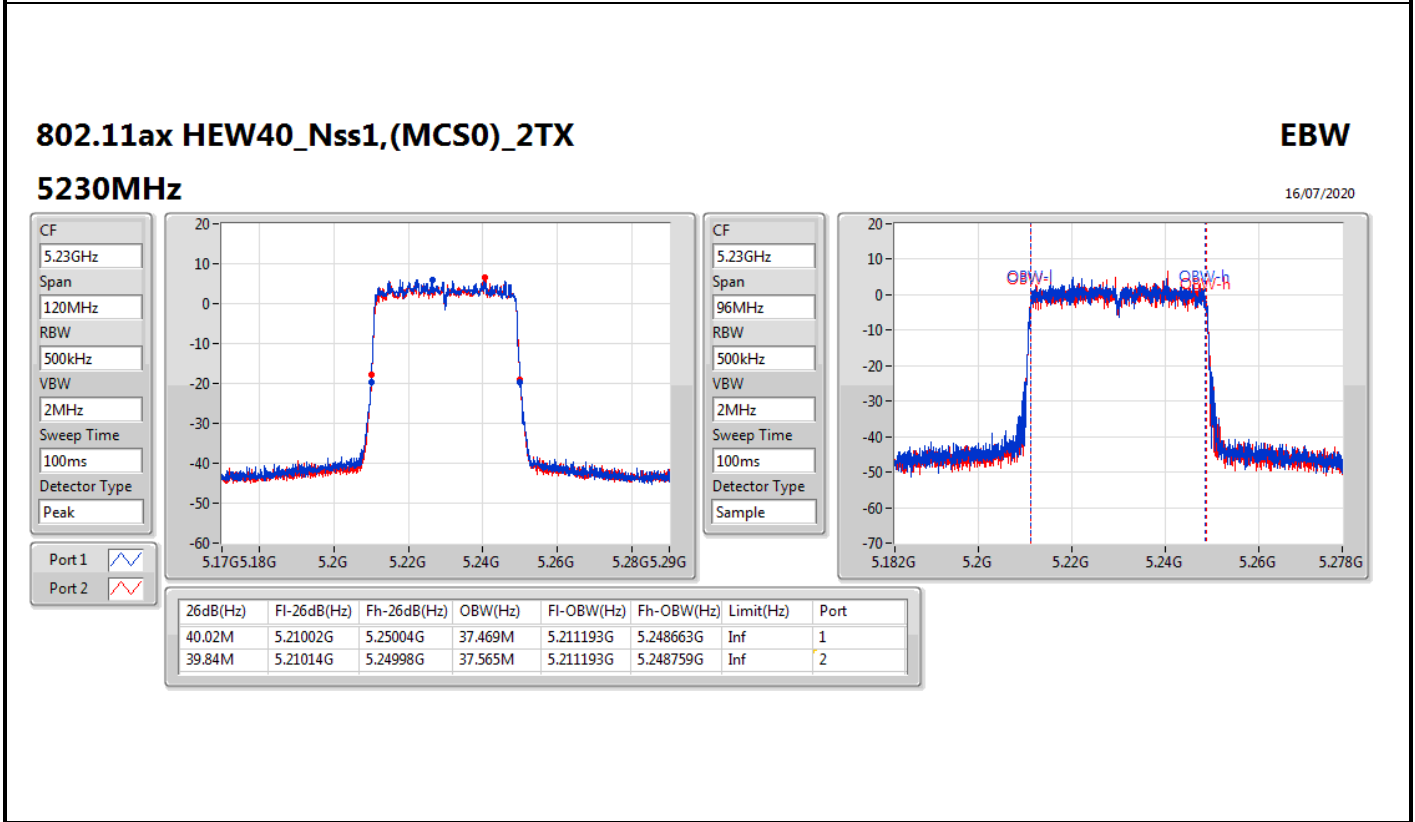
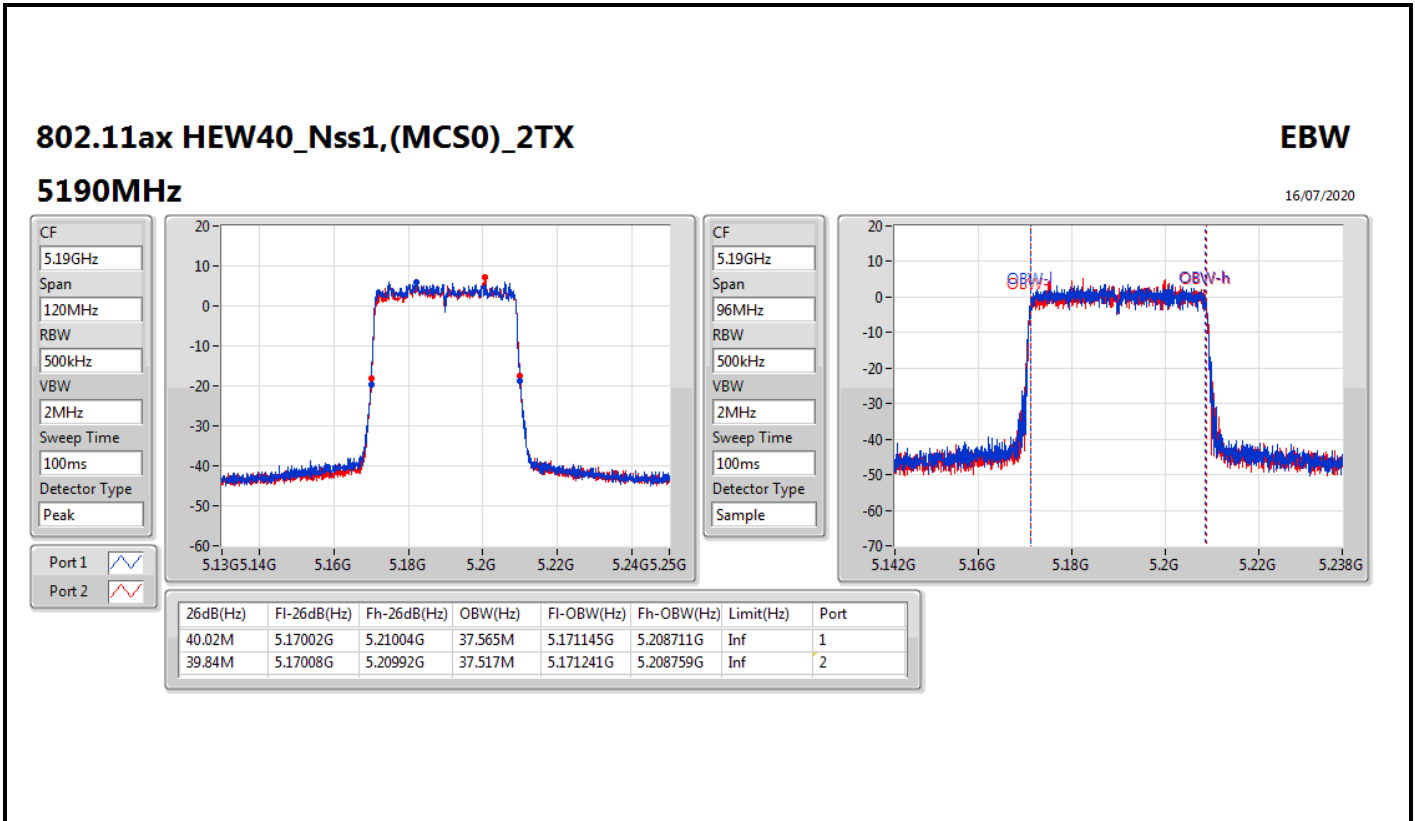


CF
5.745GHz
Span
48MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.87M	5.73549G	5.75436G	18.975M	5.735453G	5.754427G	500k	1
18.87M	5.73555G	5.75442G	18.999M	5.735453G	5.754451G	500k	2





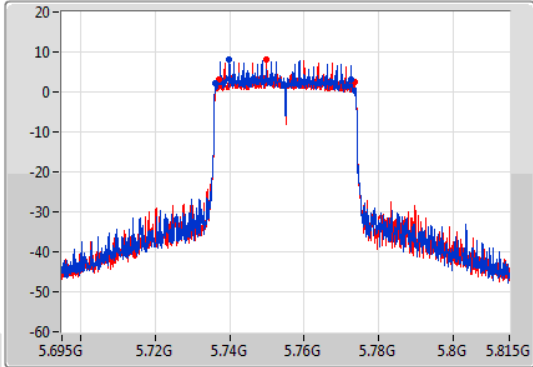
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

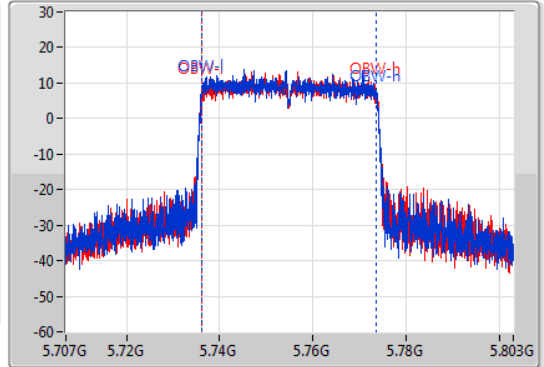
5755MHz

16/07/2020

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.54M	5.73616G	5.7727G	37.469M	5.736145G	5.773615G	500k	1
36.36M	5.73706G	5.77342G	37.565M	5.736145G	5.773711G	500k	2

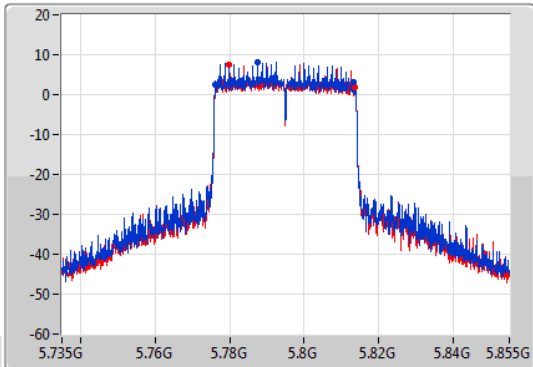
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

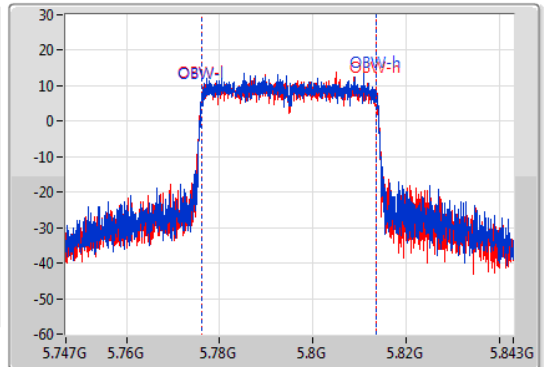
5795MHz

16/07/2020

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
96MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.2M	5.77616G	5.81336G	37.469M	5.776193G	5.813663G	500k	1
37.2M	5.77622G	5.81342G	37.565M	5.776145G	5.813711G	500k	2

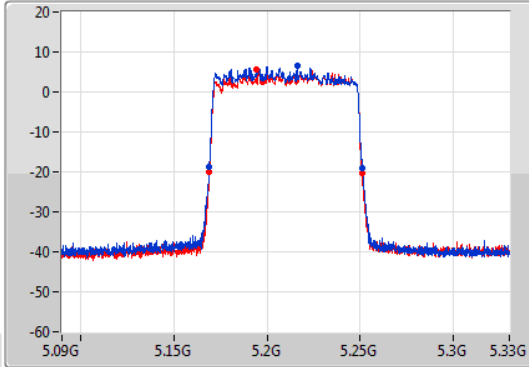
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

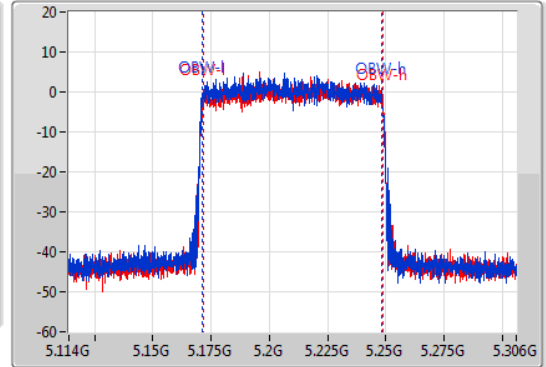
5210MHz

16/07/2020

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.08M	5.16908G	5.25116G	77.049M	5.171235G	5.248285G	Inf	1
81.96M	5.1692G	5.25116G	77.049M	5.171523G	5.248573G	Inf	2

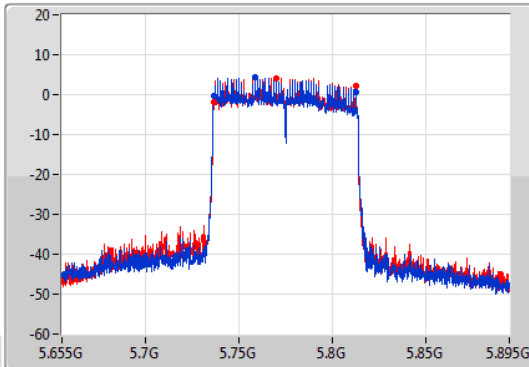
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

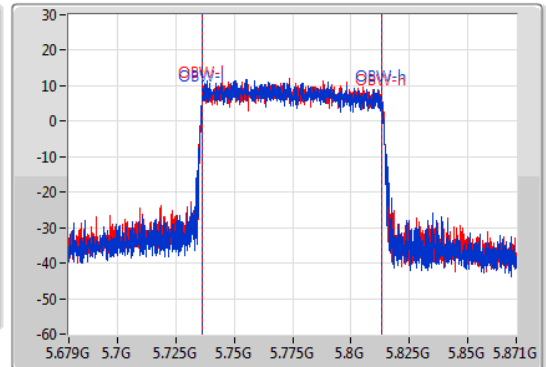
5775MHz

16/07/2020

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
192MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.08M	5.73648G	5.81256G	77.049M	5.736235G	5.813285G	500k	1
75.6M	5.73684G	5.81244G	76.954M	5.736331G	5.813285G	500k	2



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.53	0.11290	23.04	0.20137
802.11n HT20_Nss1,(MCS0)_2TX	20.29	0.10691	22.93	0.19634
802.11n HT40_Nss1,(MCS0)_2TX	19.94	0.09863	22.82	0.19143
802.11ac VHT20_Nss1,(MCS0)_2TX	20.40	0.10965	22.91	0.19543
802.11ac VHT40_Nss1,(MCS0)_2TX	20.06	0.10139	22.84	0.19231
802.11ac VHT80_Nss1,(MCS0)_2TX	20.29	0.10691	22.79	0.19011
802.11ax HEW20_Nss1,(MCS0)_2TX	20.59	0.11455	23.04	0.20137
802.11ax HEW40_Nss1,(MCS0)_2TX	20.18	0.10421	23.04	0.20137
802.11ax HEW80_Nss1,(MCS0)_2TX	20.44	0.11066	22.94	0.19679
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.85	0.38459	28.37	0.68707
802.11n HT20_Nss1,(MCS0)_2TX	25.03	0.31842	27.63	0.57943
802.11n HT40_Nss1,(MCS0)_2TX	24.86	0.30620	27.50	0.56234
802.11ac VHT20_Nss1,(MCS0)_2TX	25.55	0.35892	28.02	0.63387
802.11ac VHT40_Nss1,(MCS0)_2TX	25.48	0.35318	28.01	0.63241
802.11ac VHT80_Nss1,(MCS0)_2TX	23.69	0.23388	26.52	0.44875
802.11ax HEW20_Nss1,(MCS0)_2TX	25.81	0.38107	28.39	0.69024
802.11ax HEW40_Nss1,(MCS0)_2TX	25.74	0.37497	28.34	0.68234
802.11ax HEW80_Nss1,(MCS0)_2TX	23.91	0.24604	26.67	0.46452



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	17.62	17.37	20.51	30.00	23.02	36.00
5200MHz	Pass	5.40	17.64	17.39	20.53	30.00	23.04	36.00
5240MHz	Pass	5.40	17.57	17.41	20.50	30.00	22.97	36.00
5745MHz	Pass	5.40	22.71	22.97	25.85	30.00	28.37	36.00
5785MHz	Pass	5.40	22.56	22.80	25.69	30.00	28.20	36.00
5825MHz	Pass	5.40	22.31	22.81	25.58	30.00	28.21	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	17.04	16.79	19.93	30.00	22.44	36.00
5200MHz	Pass	5.40	17.38	16.87	20.14	30.00	22.78	36.00
5240MHz	Pass	5.40	17.53	17.02	20.29	30.00	22.93	36.00
5745MHz	Pass	5.40	22.09	21.88	25.00	30.00	27.49	36.00
5785MHz	Pass	5.40	22.03	21.70	24.88	30.00	27.43	36.00
5825MHz	Pass	5.40	22.23	21.80	25.03	30.00	27.63	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.40	17.39	16.38	19.92	30.00	22.79	36.00
5230MHz	Pass	5.40	17.42	16.38	19.94	30.00	22.82	36.00
5755MHz	Pass	5.40	22.10	21.58	24.86	30.00	27.50	36.00
5795MHz	Pass	5.40	22.02	21.47	24.76	30.00	27.42	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	17.16	16.99	20.09	30.00	22.56	36.00
5200MHz	Pass	5.40	17.47	17.08	20.29	30.00	22.87	36.00
5240MHz	Pass	5.40	17.51	17.27	20.40	30.00	22.91	36.00
5745MHz	Pass	5.40	22.62	22.46	25.55	30.00	28.02	36.00
5785MHz	Pass	5.40	22.54	22.32	25.44	30.00	27.94	36.00
5825MHz	Pass	5.40	22.56	22.24	25.41	30.00	27.96	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.40	17.36	16.51	19.97	30.00	22.76	36.00
5230MHz	Pass	5.40	17.44	16.61	20.06	30.00	22.84	36.00
5755MHz	Pass	5.40	22.61	22.32	25.48	30.00	28.01	36.00
5795MHz	Pass	5.40	22.42	21.94	25.20	30.00	27.82	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.40	17.39	17.17	20.29	30.00	22.79	36.00
5775MHz	Pass	5.40	21.12	20.20	23.69	30.00	26.52	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	17.58	16.88	20.25	30.00	22.98	36.00
5200MHz	Pass	5.40	17.64	17.45	20.56	30.00	23.04	36.00
5240MHz	Pass	5.40	17.61	17.55	20.59	30.00	23.01	36.00
5745MHz	Pass	5.40	22.74	22.84	25.80	30.00	28.24	36.00
5785MHz	Pass	5.40	22.70	22.89	25.81	30.00	28.29	36.00
5825MHz	Pass	5.40	22.57	22.99	25.80	30.00	28.39	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.40	17.53	16.71	20.15	30.00	22.93	36.00
5230MHz	Pass	5.40	17.64	16.64	20.18	30.00	23.04	36.00



Average Power_outdoor Sample 1

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5755MHz	Pass	5.40	22.94	22.51	25.74	30.00	28.34	36.00
5795MHz	Pass	5.40	22.81	22.31	25.58	30.00	28.21	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.40	17.54	17.31	20.44	30.00	22.94	36.00
5775MHz	Pass	5.40	21.27	20.49	23.91	30.00	26.67	36.00

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



MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees_
outdoor Sample 1

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.53	0.11290	20.94	0.12417
802.11n HT20_Nss1,(MCS0)_2TX	20.29	0.10691	20.83	0.12106
802.11n HT40_Nss1,(MCS0)_2TX	19.94	0.09863	20.72	0.11803
802.11ac VHT20_Nss1,(MCS0)_2TX	20.40	0.10965	20.83	0.12106
802.11ac VHT40_Nss1,(MCS0)_2TX	20.06	0.10139	20.72	0.11803
802.11ac VHT80_Nss1,(MCS0)_2TX	20.29	0.10691	20.69	0.11722
802.11ax HEW20_Nss1,(MCS0)_2TX	20.59	0.11455	20.94	0.12417
802.11ax HEW40_Nss1,(MCS0)_2TX	20.18	0.10421	20.94	0.12417
802.11ax HEW80_Nss1,(MCS0)_2TX	20.44	0.11066	20.84	0.12134



MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees_
outdoor Sample 1

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	Elevation Angle EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.30	17.62	17.37	20.51	30.00	20.92	21.00
5200MHz	Pass	3.30	17.64	17.39	20.53	30.00	20.94	21.00
5240MHz	Pass	3.30	17.57	17.41	20.50	30.00	20.87	21.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.30	17.04	16.79	19.93	30.00	20.34	21.00
5200MHz	Pass	3.30	17.38	16.87	20.14	30.00	20.68	21.00
5240MHz	Pass	3.30	17.53	17.02	20.29	30.00	20.83	21.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.30	17.39	16.38	19.92	30.00	20.69	21.00
5230MHz	Pass	3.30	17.42	16.38	19.94	30.00	20.72	21.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.30	17.16	16.99	20.09	30.00	20.46	21.00
5200MHz	Pass	3.30	17.47	17.08	20.29	30.00	20.77	21.00
5240MHz	Pass	3.30	17.51	17.27	20.40	30.00	20.81	21.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.30	17.36	16.51	19.97	30.00	20.66	21.00
5230MHz	Pass	3.30	17.44	16.61	20.06	30.00	20.74	21.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.30	17.39	17.17	20.29	30.00	20.69	21.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.30	17.58	16.88	20.25	30.00	20.88	21.00
5200MHz	Pass	3.30	17.64	17.45	20.56	30.00	20.94	21.00
5240MHz	Pass	3.30	17.61	17.55	20.59	30.00	20.91	21.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.30	17.53	16.71	20.15	30.00	20.83	21.00
5230MHz	Pass	3.30	17.64	16.64	20.18	30.00	20.94	21.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.30	17.54	17.31	20.44	30.00	20.84	21.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.56	0.04524	20.93	0.12388
802.11n HT20_Nss1,(MCS0)_2TX	15.97	0.03954	20.42	0.11015
802.11n HT40_Nss1,(MCS0)_2TX	16.00	0.03981	20.25	0.10593
802.11ac VHT20_Nss1,(MCS0)_2TX	16.16	0.04130	20.53	0.11298
802.11ac VHT40_Nss1,(MCS0)_2TX	16.38	0.04345	20.66	0.11641
802.11ac VHT80_Nss1,(MCS0)_2TX	16.36	0.04325	20.85	0.12162
802.11ax HEW20_Nss1,(MCS0)_2TX	16.61	0.04581	20.92	0.12359
802.11ax HEW40_Nss1,(MCS0)_2TX	16.63	0.04603	20.96	0.12474
802.11ax HEW80_Nss1,(MCS0)_2TX	16.37	0.04335	20.80	0.12023
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.89	0.30832	29.09	0.81096
802.11n HT20_Nss1,(MCS0)_2TX	24.51	0.28249	28.65	0.73282
802.11n HT40_Nss1,(MCS0)_2TX	24.50	0.28184	28.78	0.75509
802.11ac VHT20_Nss1,(MCS0)_2TX	24.62	0.28973	28.84	0.76560
802.11ac VHT40_Nss1,(MCS0)_2TX	24.56	0.28576	28.90	0.77625
802.11ac VHT80_Nss1,(MCS0)_2TX	23.60	0.22909	27.75	0.59566
802.11ax HEW20_Nss1,(MCS0)_2TX	24.87	0.30690	29.00	0.79433
802.11ax HEW40_Nss1,(MCS0)_2TX	24.78	0.30061	29.08	0.80910
802.11ax HEW80_Nss1,(MCS0)_2TX	23.93	0.24717	28.07	0.64121



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.83	13.24	16.56	30.00	20.93	36.00
5200MHz	Pass	7.10	13.60	13.24	16.43	28.90	20.70	36.00
5240MHz	Pass	7.10	13.77	13.32	16.56	28.90	20.87	36.00
5745MHz	Pass	7.10	21.85	21.91	24.89	28.90	29.01	36.00
5785MHz	Pass	7.10	21.66	21.99	24.84	28.90	29.09	36.00
5825MHz	Pass	7.10	21.75	21.91	24.84	28.90	29.01	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.32	12.56	15.97	28.90	20.42	36.00
5200MHz	Pass	7.10	13.18	12.44	15.84	28.90	20.28	36.00
5240MHz	Pass	7.10	13.23	12.63	15.95	28.90	20.33	36.00
5745MHz	Pass	7.10	21.22	21.23	24.24	28.90	28.33	36.00
5785MHz	Pass	7.10	21.55	21.44	24.51	28.90	28.65	36.00
5825MHz	Pass	7.10	21.37	21.24	24.32	28.90	28.47	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	13.15	12.83	16.00	28.90	20.25	36.00
5230MHz	Pass	7.10	13.14	12.61	15.89	28.90	20.24	36.00
5755MHz	Pass	7.10	21.54	21.14	24.35	28.90	28.64	36.00
5795MHz	Pass	7.10	21.68	21.29	24.50	28.90	28.78	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.43	12.86	16.16	28.90	20.53	36.00
5200MHz	Pass	7.10	13.24	12.75	16.01	28.90	20.34	36.00
5240MHz	Pass	7.10	13.28	13.02	16.16	28.90	20.38	36.00
5745MHz	Pass	7.10	21.31	21.56	24.45	28.90	28.66	36.00
5785MHz	Pass	7.10	21.47	21.74	24.62	28.90	28.84	36.00
5825MHz	Pass	7.10	21.39	21.24	24.33	28.90	28.49	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	13.56	13.17	16.38	28.90	20.66	36.00
5230MHz	Pass	7.10	13.43	12.93	16.20	28.90	20.53	36.00
5755MHz	Pass	7.10	21.71	21.36	24.55	28.90	28.81	36.00
5795MHz	Pass	7.10	21.80	21.28	24.56	28.90	28.90	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.10	13.75	12.90	16.36	28.90	20.85	36.00
5775MHz	Pass	7.10	20.52	20.65	23.60	28.90	27.75	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.82	13.10	16.49	28.90	20.92	36.00
5200MHz	Pass	7.10	13.71	13.16	16.45	28.90	20.81	36.00
5240MHz	Pass	7.10	13.72	13.47	16.61	28.90	20.82	36.00
5745MHz	Pass	7.10	21.77	21.60	24.70	28.90	28.87	36.00
5785MHz	Pass	7.10	21.82	21.90	24.87	28.90	29.00	36.00
5825MHz	Pass	7.10	21.78	21.56	24.68	28.90	28.88	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	13.86	13.37	16.63	28.90	20.96	36.00
5230MHz	Pass	7.10	13.72	13.09	16.43	28.90	20.82	36.00



Average Power_outdoor Sample 2

Appendix C.3

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5755MHz	Pass	7.10	21.98	21.55	24.78	28.90	29.08	36.00
5795MHz	Pass	7.10	21.98	21.45	24.73	28.90	29.08	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.10	13.70	13.00	16.37	28.90	20.80	36.00
5775MHz	Pass	7.10	20.87	20.97	23.93	28.90	28.07	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.56	0.04524	20.93	0.12388
802.11n HT20_Nss1,(MCS0)_2TX	15.97	0.03954	20.42	0.11015
802.11n HT40_Nss1,(MCS0)_2TX	16.00	0.03981	20.25	0.10593
802.11ac VHT20_Nss1,(MCS0)_2TX	16.16	0.04130	20.42	0.11015
802.11ac VHT40_Nss1,(MCS0)_2TX	16.38	0.04345	20.25	0.10593
802.11ac VHT80_Nss1,(MCS0)_2TX	16.36	0.04325	20.85	0.12162
802.11ax HEW20_Nss1,(MCS0)_2TX	16.61	0.04581	20.92	0.12359
802.11ax HEW40_Nss1,(MCS0)_2TX	16.63	0.04603	20.96	0.12474
802.11ax HEW80_Nss1,(MCS0)_2TX	16.37	0.04335	20.80	0.12023



MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees_
outdoor Sample 2

Appendix C.4

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	Elevation Angle EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.83	13.24	16.56	30.00	20.93	21.00
5200MHz	Pass	7.10	13.60	13.24	16.43	28.90	20.70	21.00
5240MHz	Pass	7.10	13.77	13.32	16.56	28.90	20.87	21.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.32	12.56	15.97	28.90	20.42	21.00
5200MHz	Pass	7.10	13.18	12.44	15.84	28.90	20.28	21.00
5240MHz	Pass	7.10	13.23	12.63	15.95	28.90	20.33	21.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	13.15	12.83	16.00	28.90	20.25	21.00
5230MHz	Pass	7.10	13.14	12.61	15.89	28.90	20.24	21.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.43	12.86	16.16	28.90	20.53	21.00
5200MHz	Pass	7.10	13.24	12.75	16.01	28.90	20.34	21.00
5240MHz	Pass	7.10	13.28	13.02	16.16	28.90	20.38	21.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	13.56	13.17	16.38	28.90	20.66	21.00
5230MHz	Pass	7.10	13.43	12.93	16.20	28.90	20.53	21.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.10	13.75	12.90	16.36	28.90	20.85	21.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	13.82	13.10	16.49	28.90	20.92	21.00
5200MHz	Pass	7.10	13.71	13.16	16.45	28.90	20.81	21.00
5240MHz	Pass	7.10	13.72	13.47	16.61	28.90	20.82	21.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	13.86	13.37	16.63	28.90	20.96	21.00
5230MHz	Pass	7.10	13.72	13.09	16.43	28.90	20.82	21.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.10	13.70	13.00	16.37	28.90	20.80	21.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	7.55	10.17
802.11n HT20_Nss1,(MCS0)_2TX	7.30	10.03
802.11n HT40_Nss1,(MCS0)_2TX	4.11	7.14
802.11ac VHT20_Nss1,(MCS0)_2TX	7.05	9.59
802.11ac VHT40_Nss1,(MCS0)_2TX	3.86	6.80
802.11ac VHT80_Nss1,(MCS0)_2TX	1.29	3.99
802.11ax HEW20_Nss1,(MCS0)_2TX	7.05	9.59
802.11ax HEW40_Nss1,(MCS0)_2TX	3.85	6.78
802.11ax HEW80_Nss1,(MCS0)_2TX	1.44	4.08
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.15	13.69
802.11n HT20_Nss1,(MCS0)_2TX	10.55	13.36
802.11n HT40_Nss1,(MCS0)_2TX	7.47	10.33
802.11ac VHT20_Nss1,(MCS0)_2TX	10.57	13.19
802.11ac VHT40_Nss1,(MCS0)_2TX	7.69	10.36
802.11ac VHT80_Nss1,(MCS0)_2TX	3.50	6.35
802.11ax HEW20_Nss1,(MCS0)_2TX	10.60	13.18
802.11ax HEW40_Nss1,(MCS0)_2TX	7.89	10.60
802.11ax HEW80_Nss1,(MCS0)_2TX	3.30	6.15

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



Result

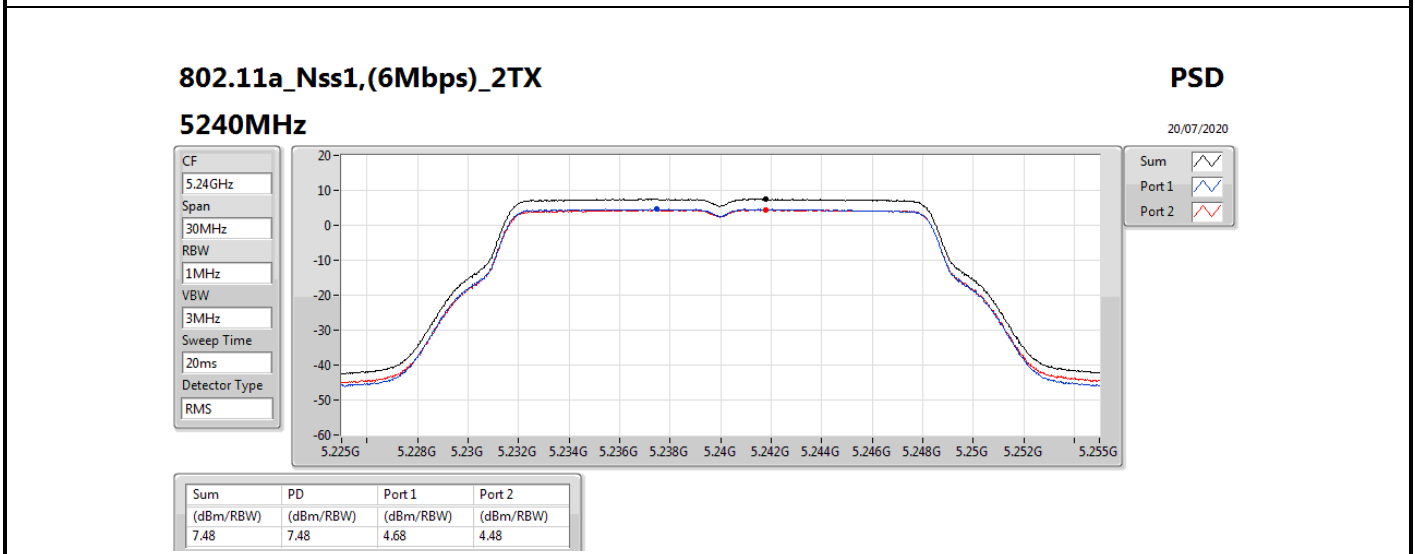
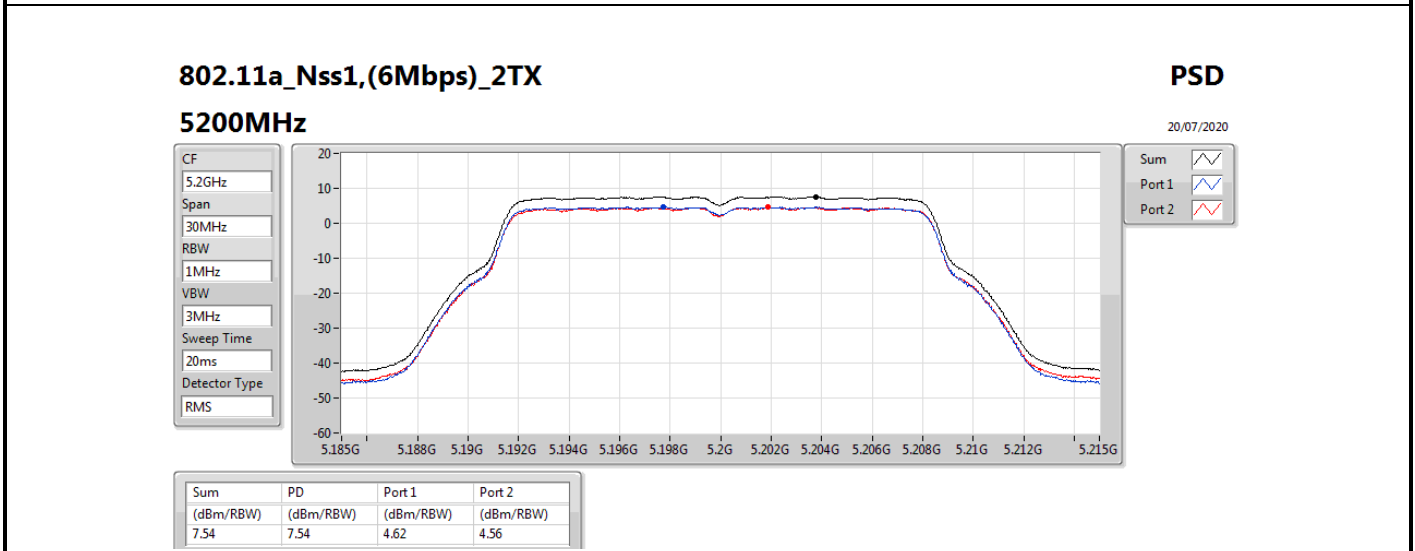
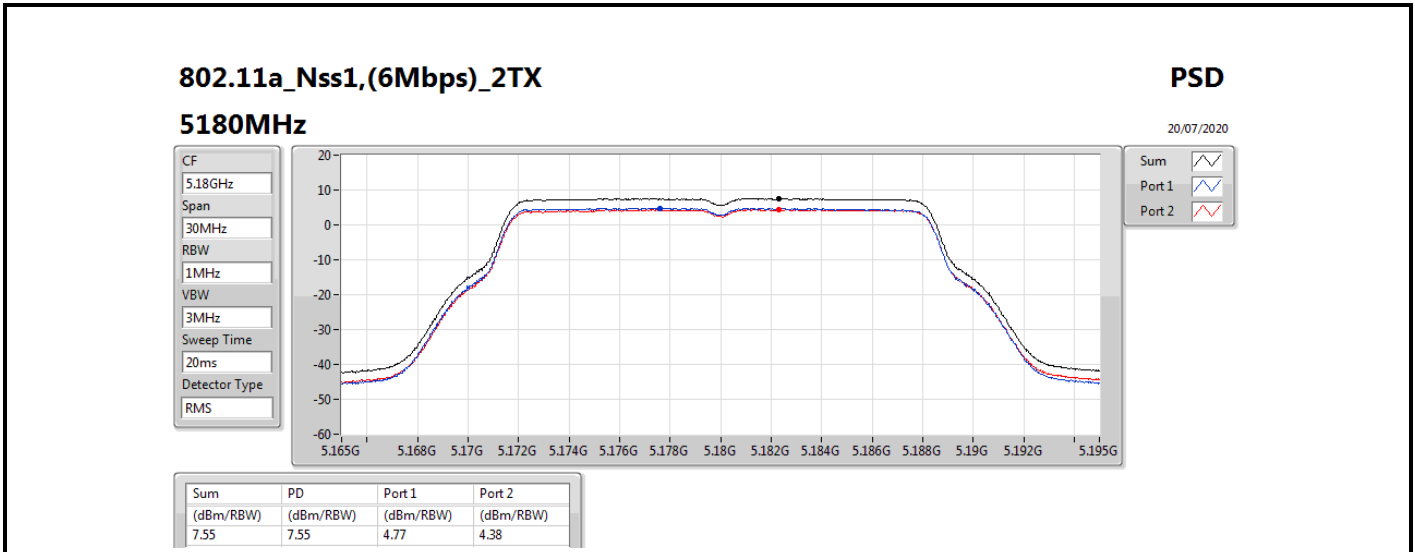
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	4.77	4.38	7.55	17.00	10.17	23.00
5200MHz	Pass	5.40	4.62	4.56	7.54	17.00	10.02	23.00
5240MHz	Pass	5.40	4.68	4.48	7.48	17.00	10.08	23.00
5745MHz	Pass	5.40	8.06	8.29	11.15	30.00	13.69	36.00
5785MHz	Pass	5.40	7.91	8.10	10.91	30.00	13.50	36.00
5825MHz	Pass	5.40	7.65	8.17	10.87	30.00	13.57	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	4.24	3.89	7.05	17.00	9.64	23.00
5200MHz	Pass	5.40	4.56	4.05	7.18	17.00	9.96	23.00
5240MHz	Pass	5.40	4.63	4.17	7.30	17.00	10.03	23.00
5745MHz	Pass	5.40	7.73	7.42	10.40	30.00	13.13	36.00
5785MHz	Pass	5.40	7.63	7.26	10.39	30.00	13.03	36.00
5825MHz	Pass	5.40	7.96	7.40	10.55	30.00	13.36	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.40	1.57	0.62	4.05	17.00	6.97	23.00
5230MHz	Pass	5.40	1.74	0.60	4.11	17.00	7.14	23.00
5755MHz	Pass	5.40	4.88	4.20	7.47	30.00	10.28	36.00
5795MHz	Pass	5.40	4.93	4.22	7.46	30.00	10.33	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	3.88	3.69	6.74	17.00	9.28	23.00
5200MHz	Pass	5.40	4.11	3.95	6.95	17.00	9.51	23.00
5240MHz	Pass	5.40	4.19	4.01	7.05	17.00	9.59	23.00
5745MHz	Pass	5.40	7.79	7.53	10.57	30.00	13.19	36.00
5785MHz	Pass	5.40	7.75	7.53	10.57	30.00	13.15	36.00
5825MHz	Pass	5.40	7.70	7.35	10.47	30.00	13.10	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.40	1.24	0.51	3.77	17.00	6.64	23.00
5230MHz	Pass	5.40	1.40	0.49	3.86	17.00	6.80	23.00
5755MHz	Pass	5.40	4.96	4.56	7.69	30.00	10.36	36.00
5795MHz	Pass	5.40	4.71	4.16	7.41	30.00	10.11	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.40	-1.41	-1.49	1.29	17.00	3.99	23.00
5775MHz	Pass	5.40	0.95	-0.00	3.50	30.00	6.35	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.40	3.94	3.74	6.77	17.00	9.34	23.00
5200MHz	Pass	5.40	4.17	3.84	6.95	17.00	9.57	23.00
5240MHz	Pass	5.40	4.19	4.01	7.05	17.00	9.59	23.00
5745MHz	Pass	5.40	7.46	7.78	10.60	30.00	13.18	36.00
5785MHz	Pass	5.40	7.36	7.70	10.51	30.00	13.10	36.00
5825MHz	Pass	5.40	7.39	7.66	10.53	30.00	13.06	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.40	1.38	0.49	3.85	17.00	6.78	23.00
5230MHz	Pass	5.40	1.33	0.41	3.80	17.00	6.73	23.00

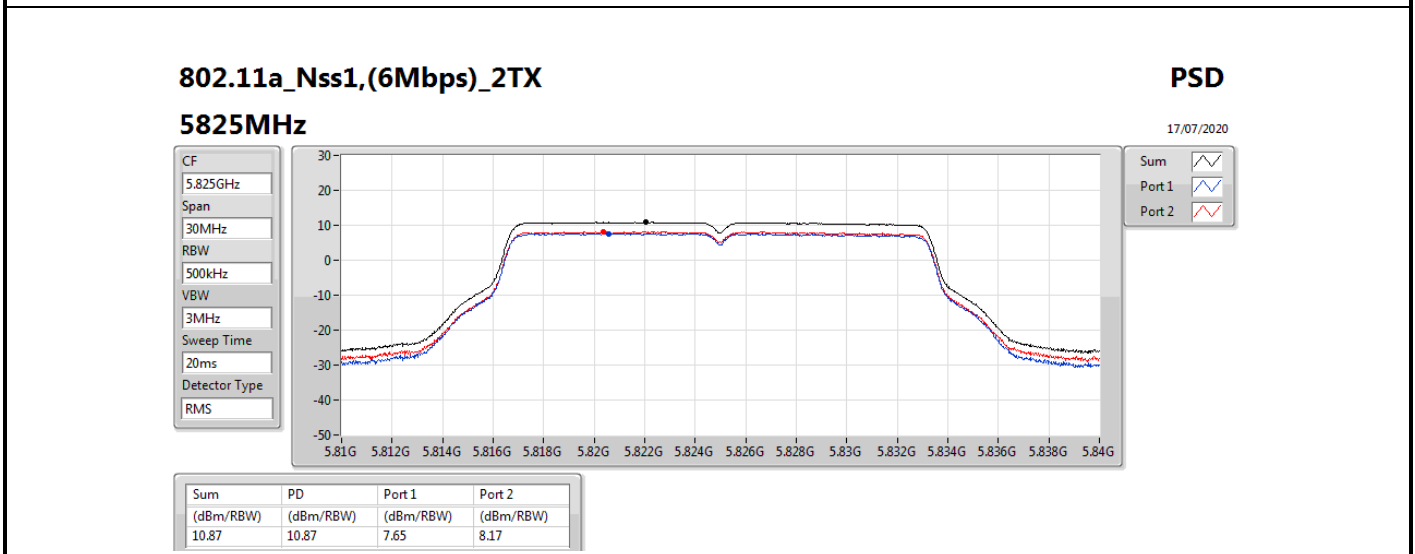
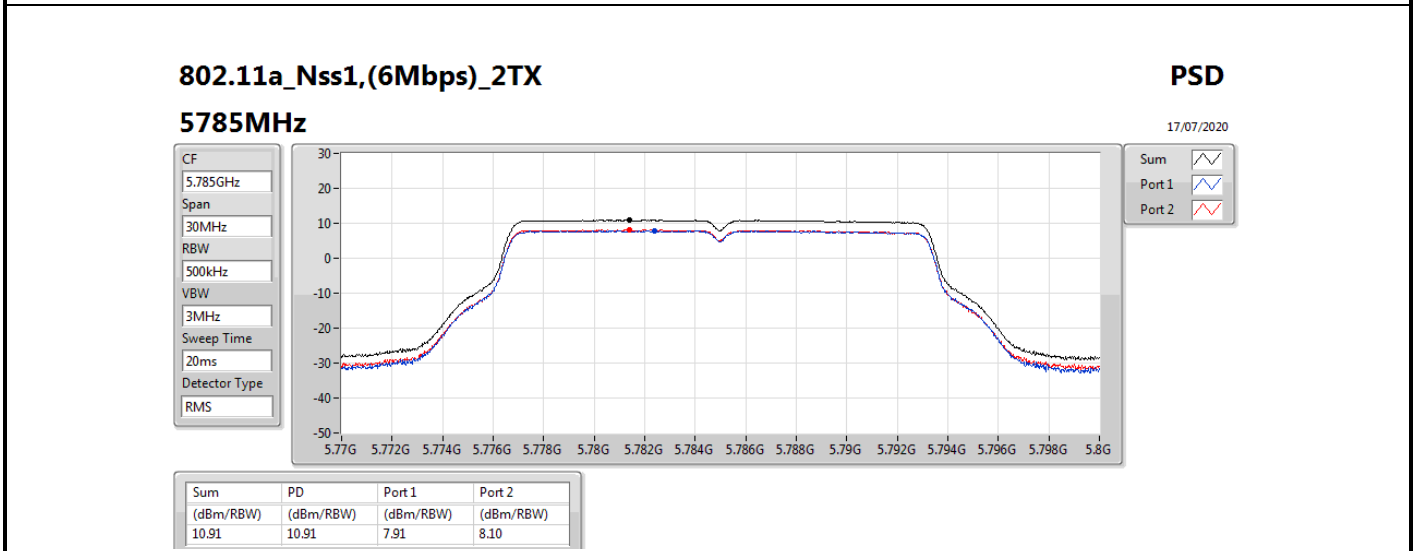
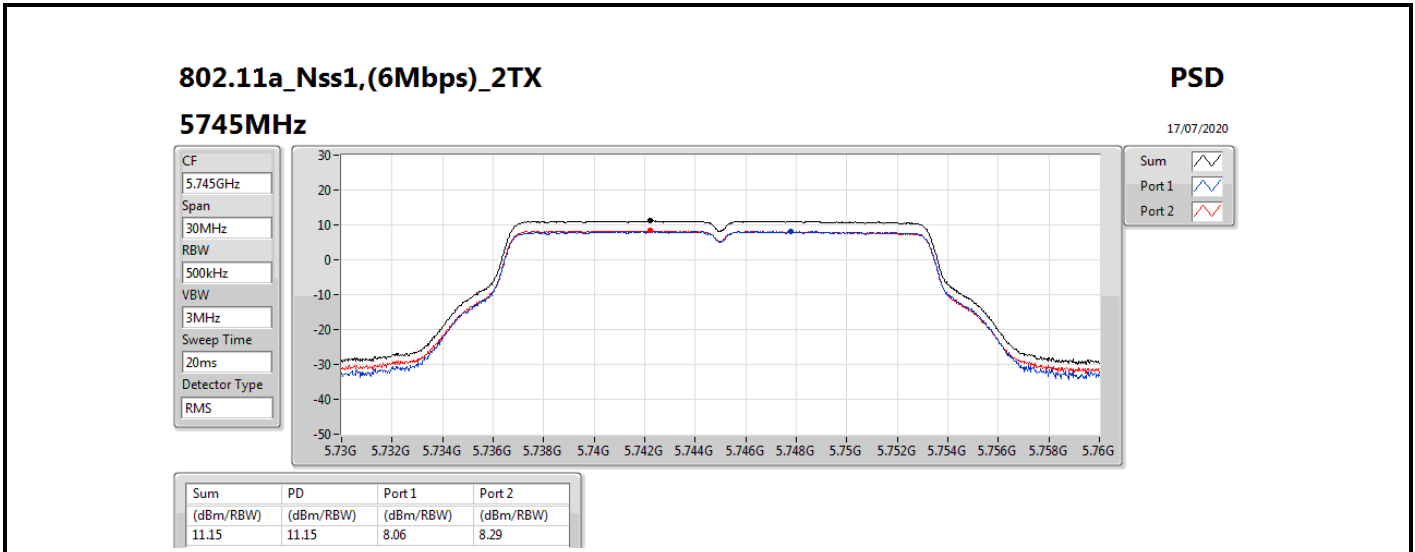


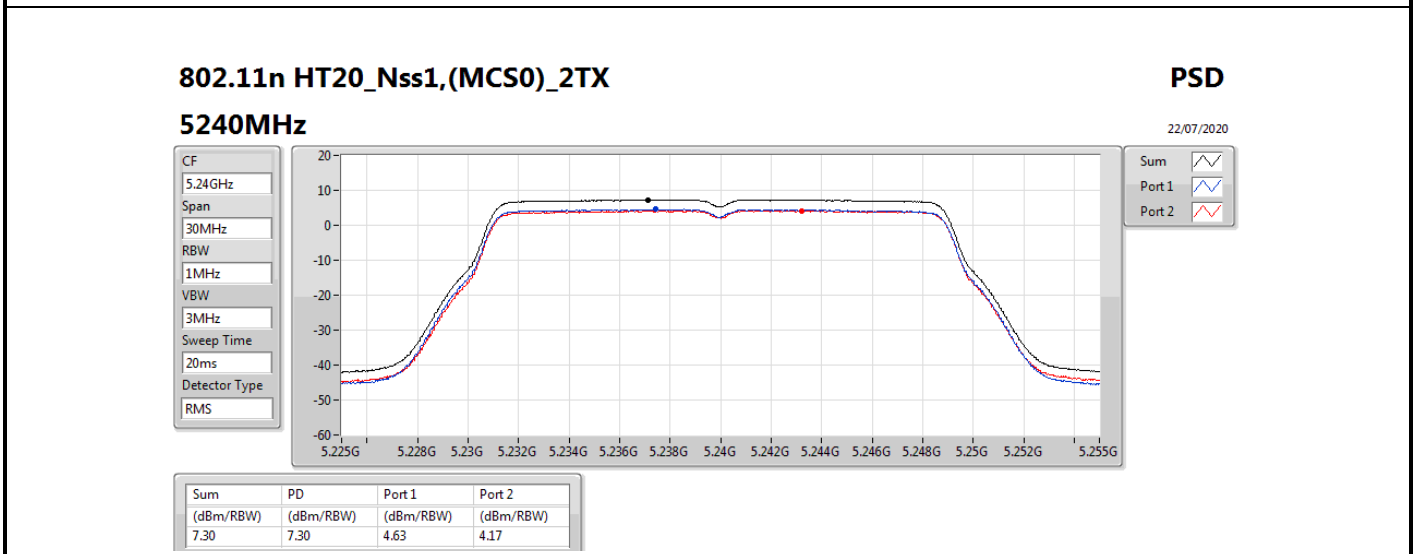
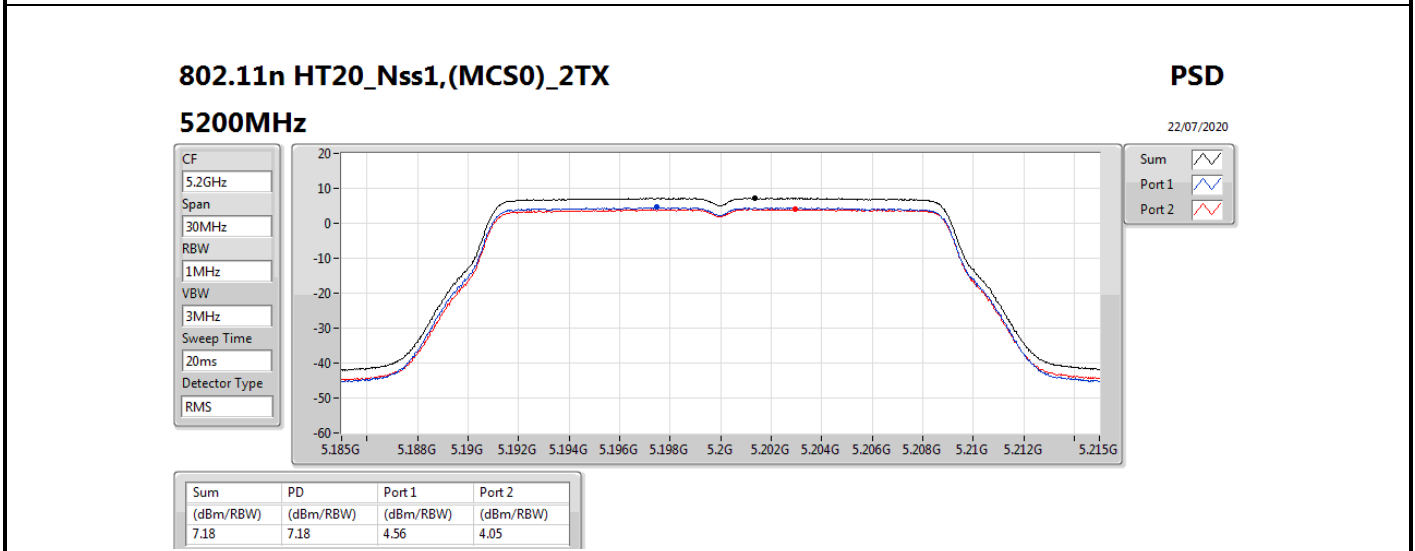
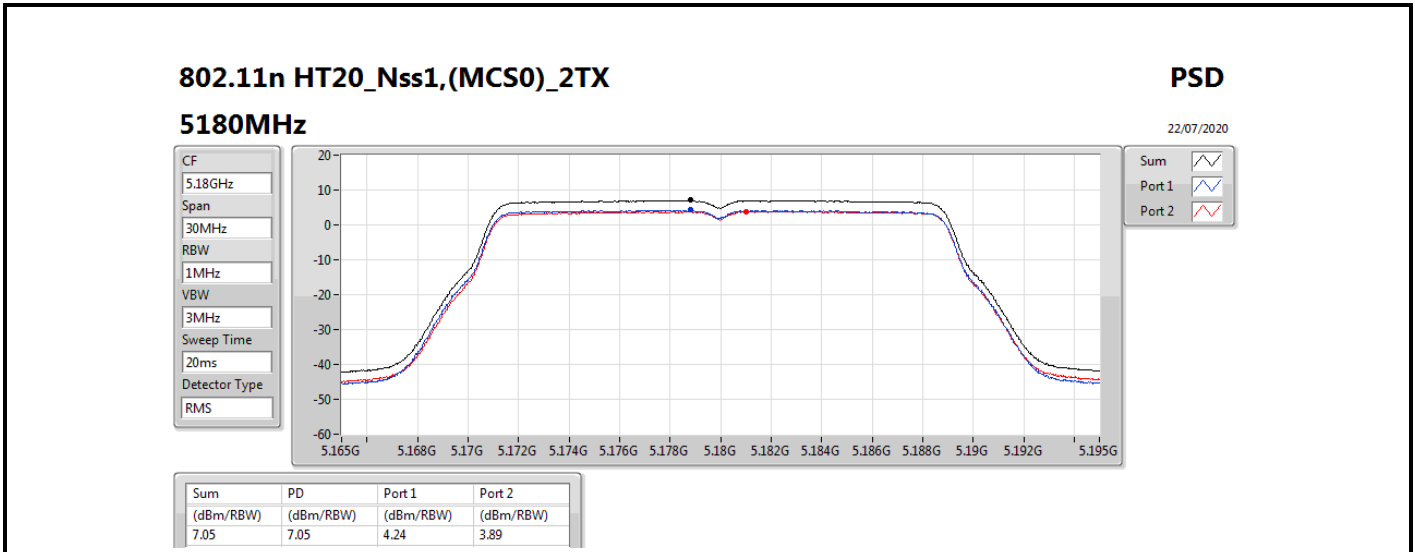
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5755MHz	Pass	5.40	5.20	4.71	7.89	30.00	10.60	36.00
5795MHz	Pass	5.40	4.96	4.27	7.55	30.00	10.36	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.40	-1.32	-1.46	1.44	17.00	4.08	23.00
5775MHz	Pass	5.40	0.75	-0.08	3.30	30.00	6.15	36.00

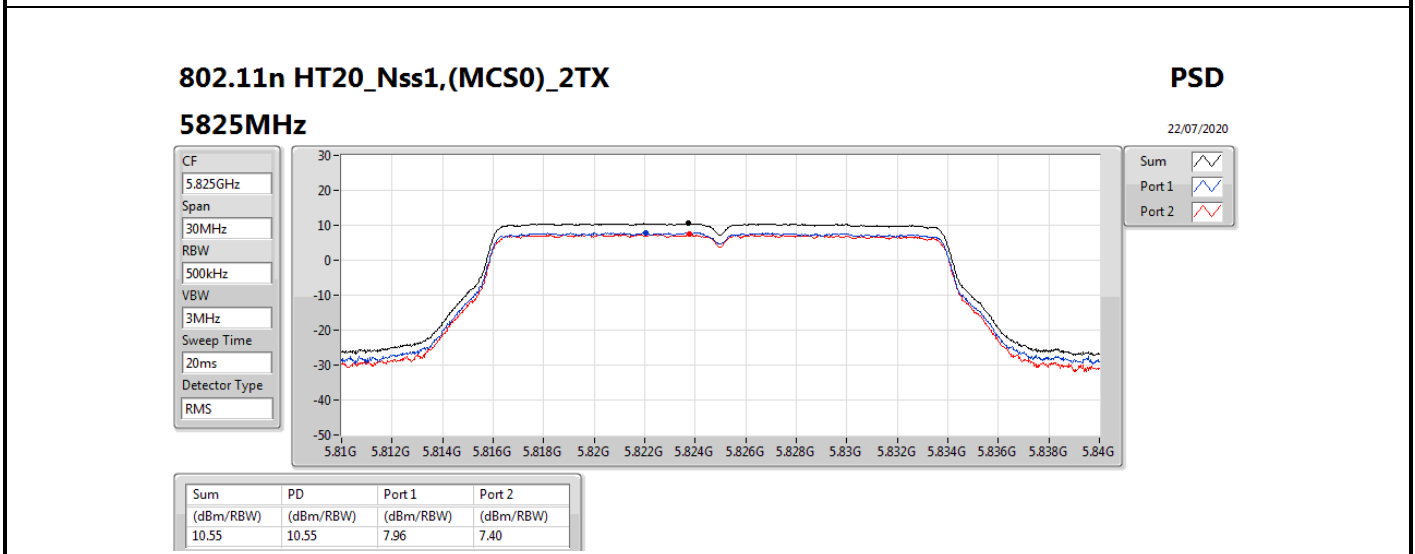
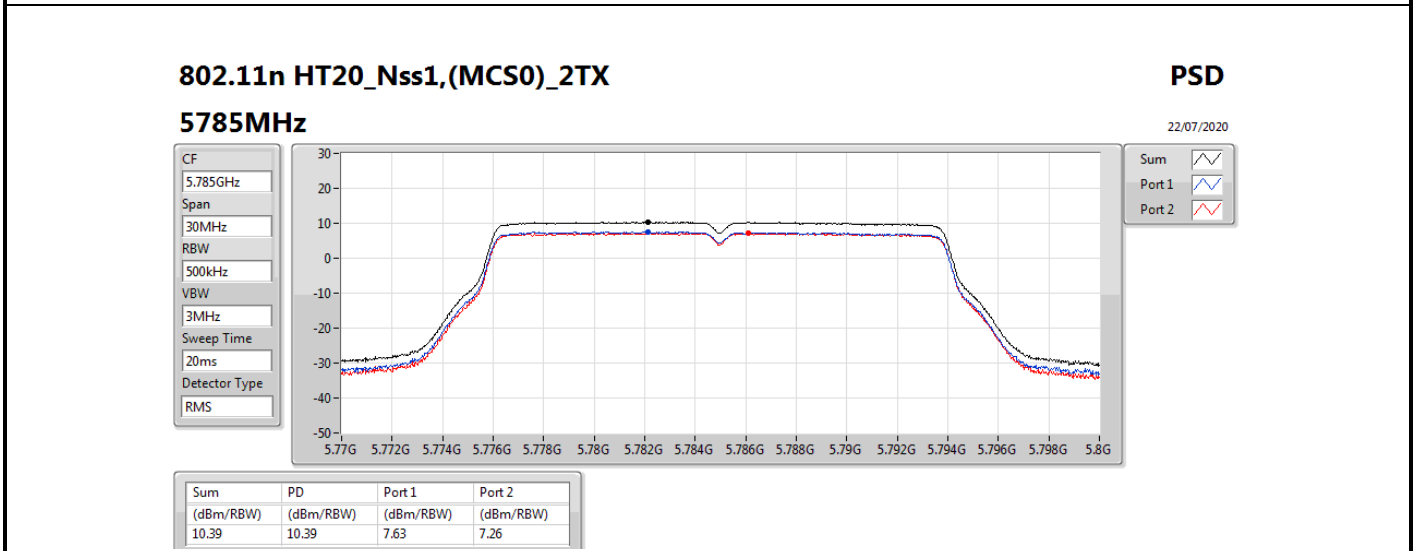
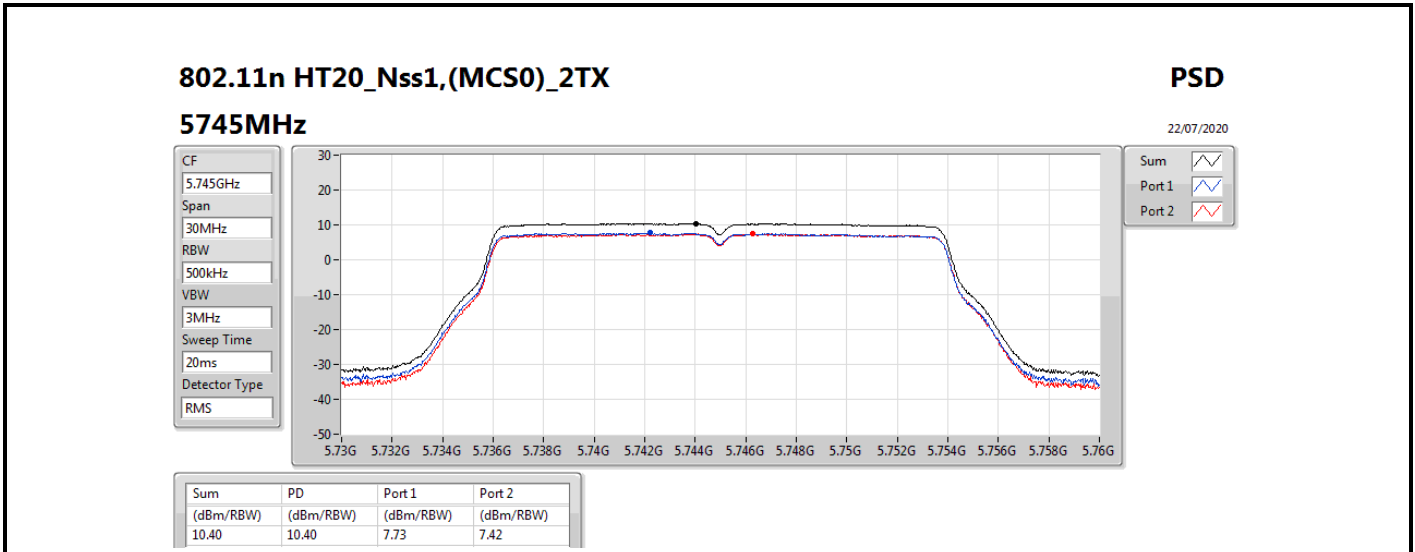
DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

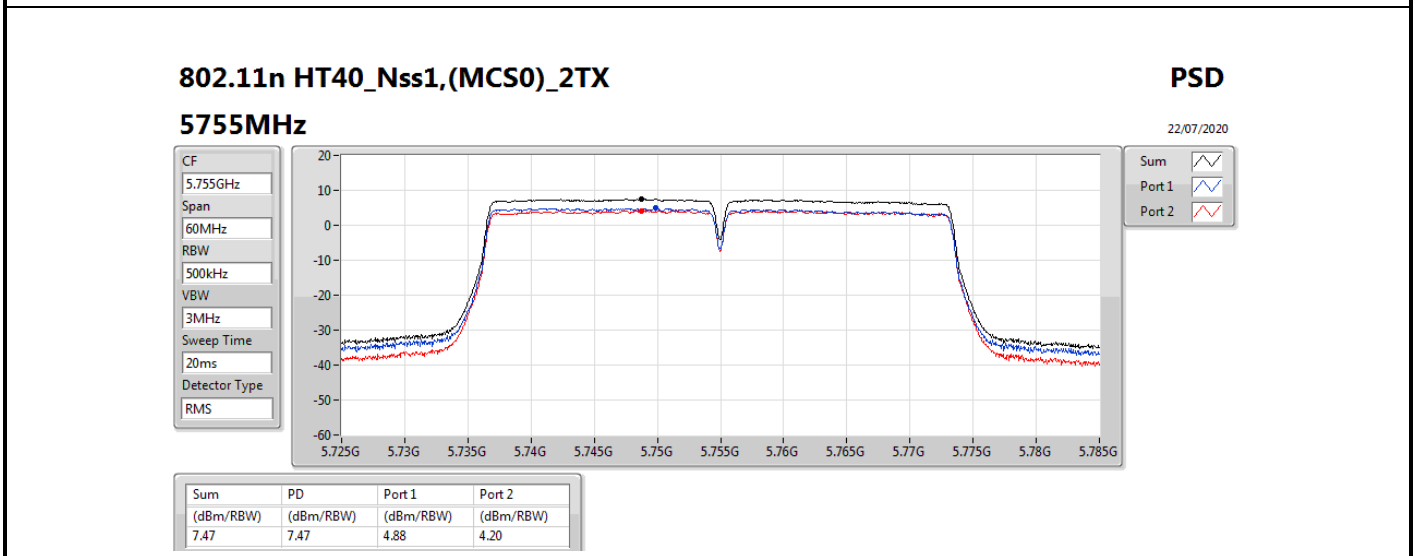
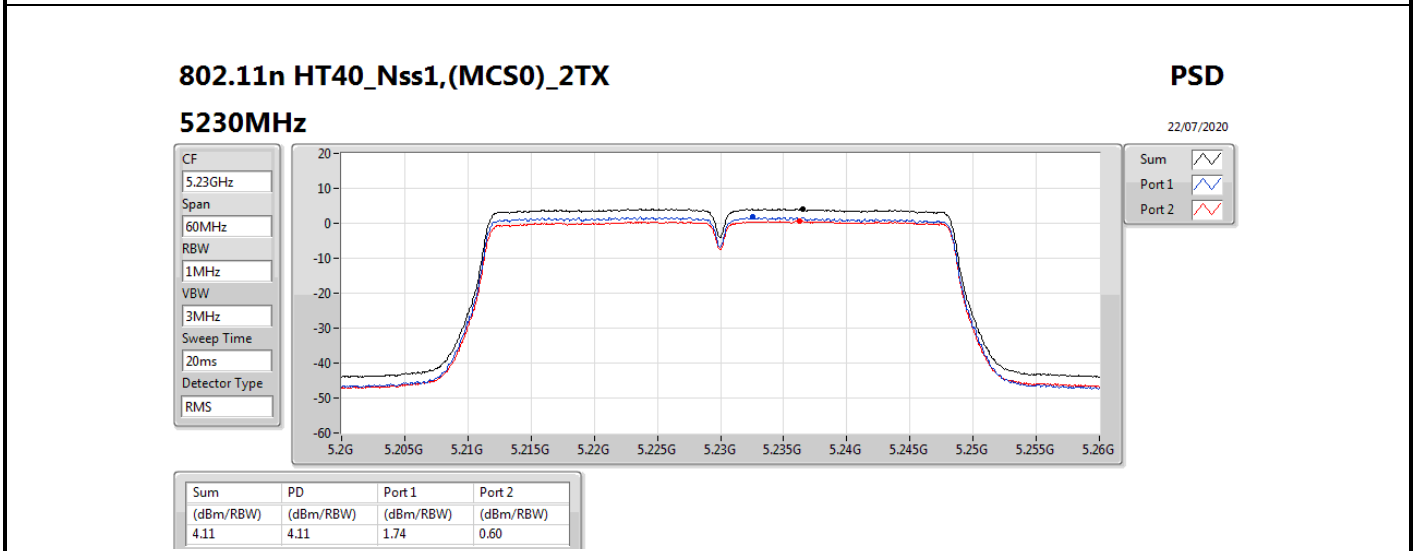
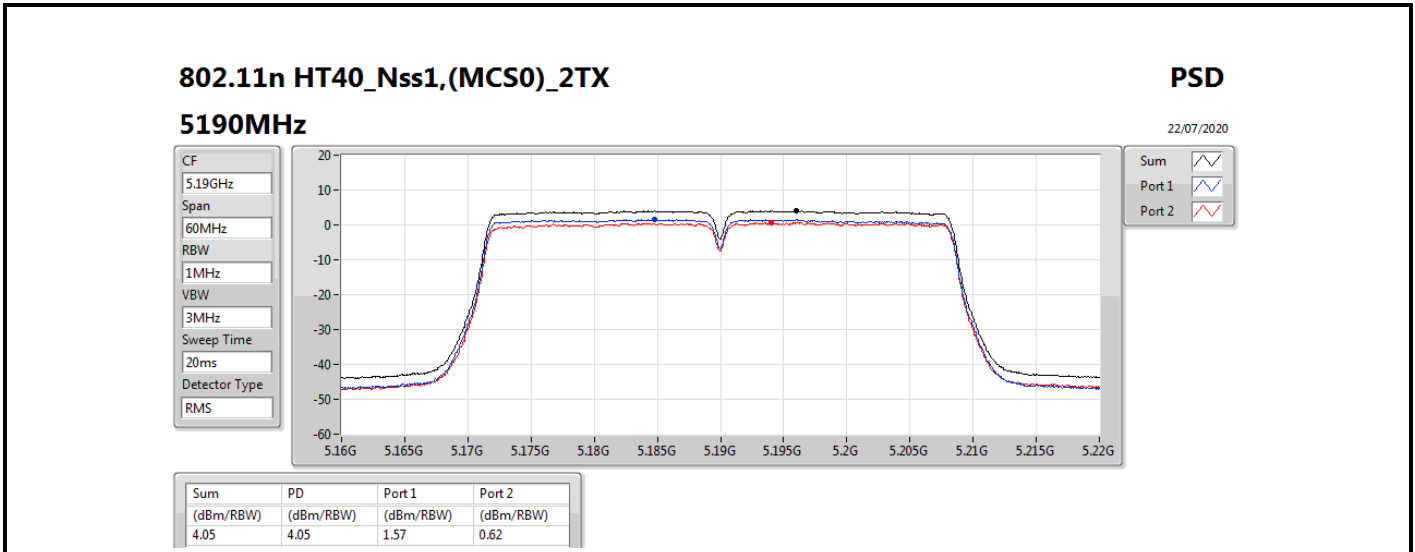
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;











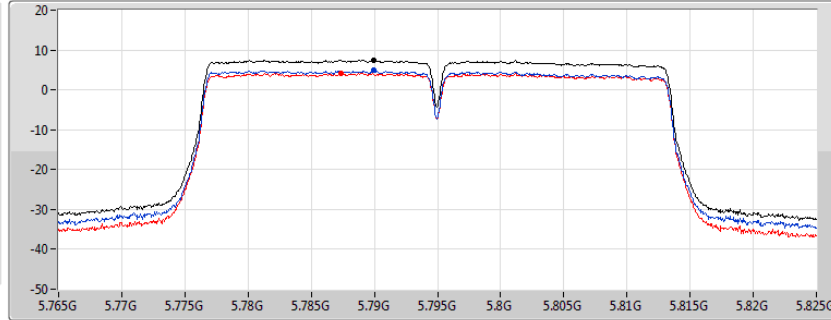
802.11n HT40_Nss1,(MCS0)_2TX

PSD

5795MHz

22/07/2020

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.46	7.46	4.93	4.22

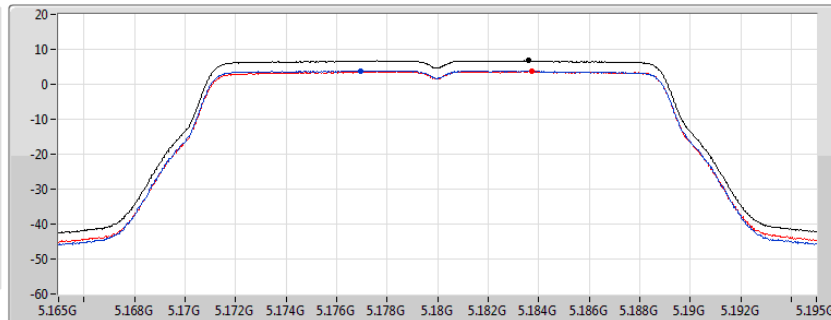
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

20/07/2020

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



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.74	6.74	3.88	3.69

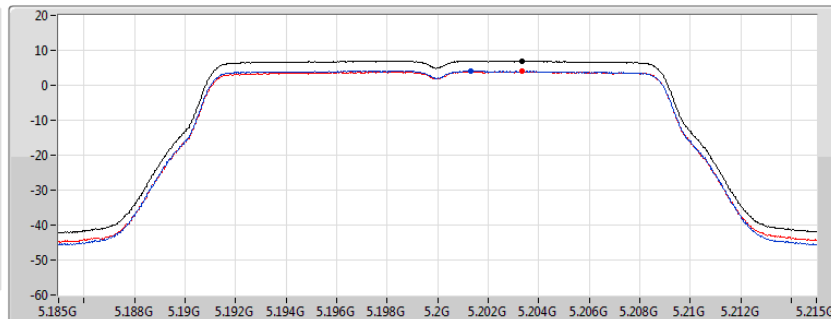
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

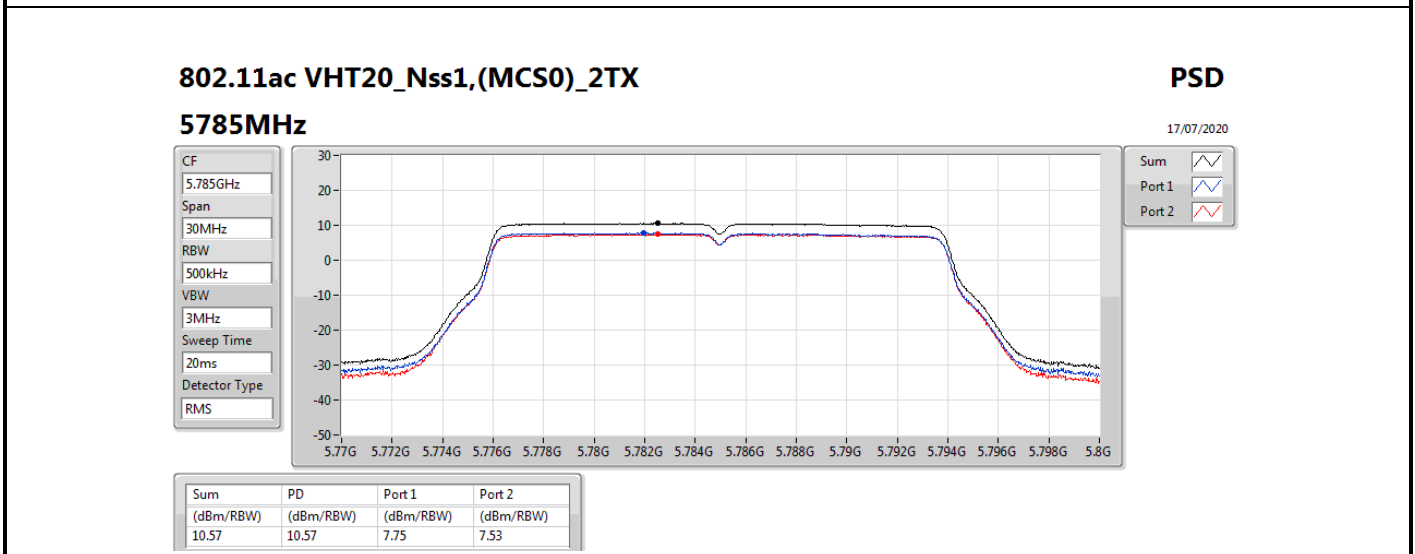
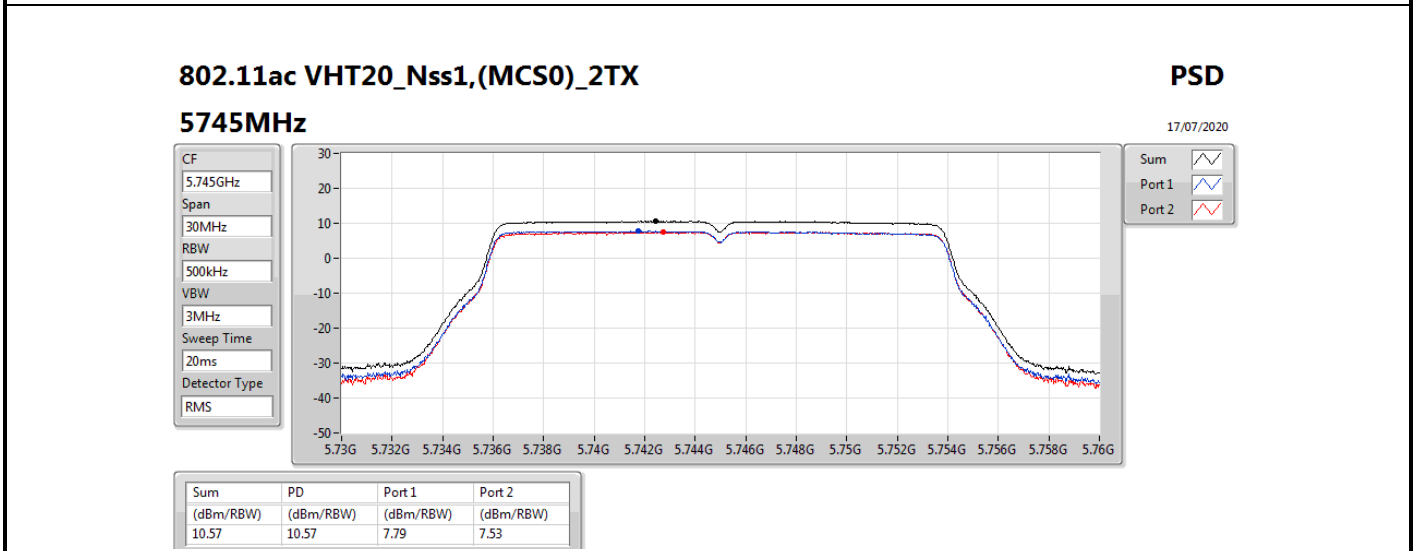
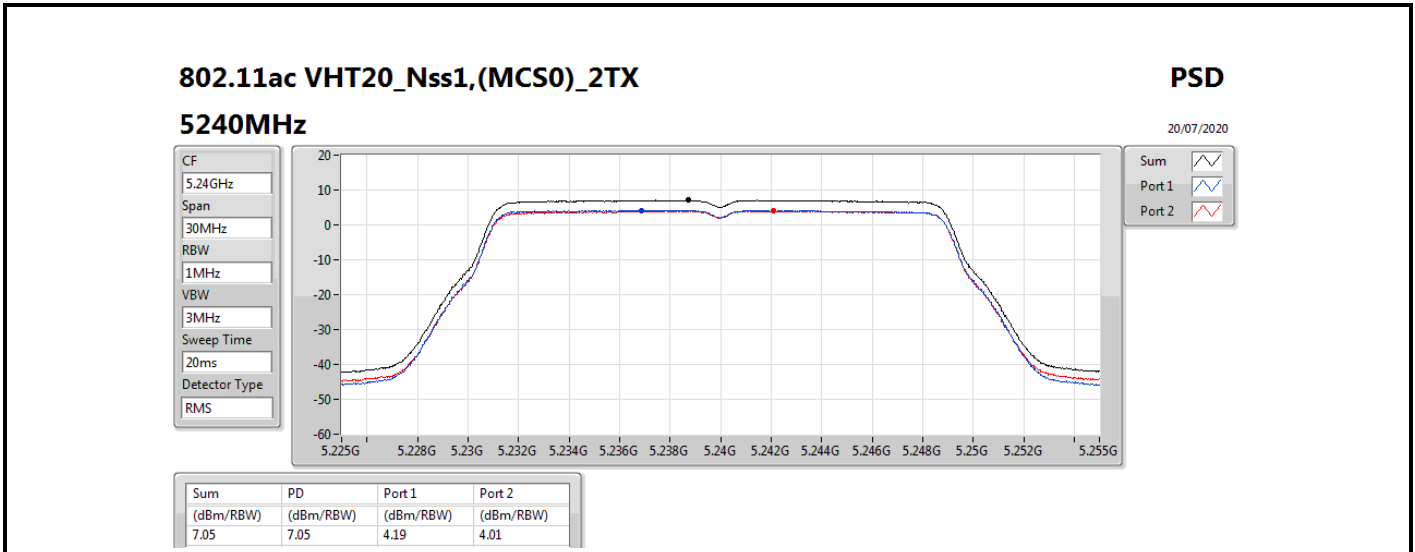
20/07/2020

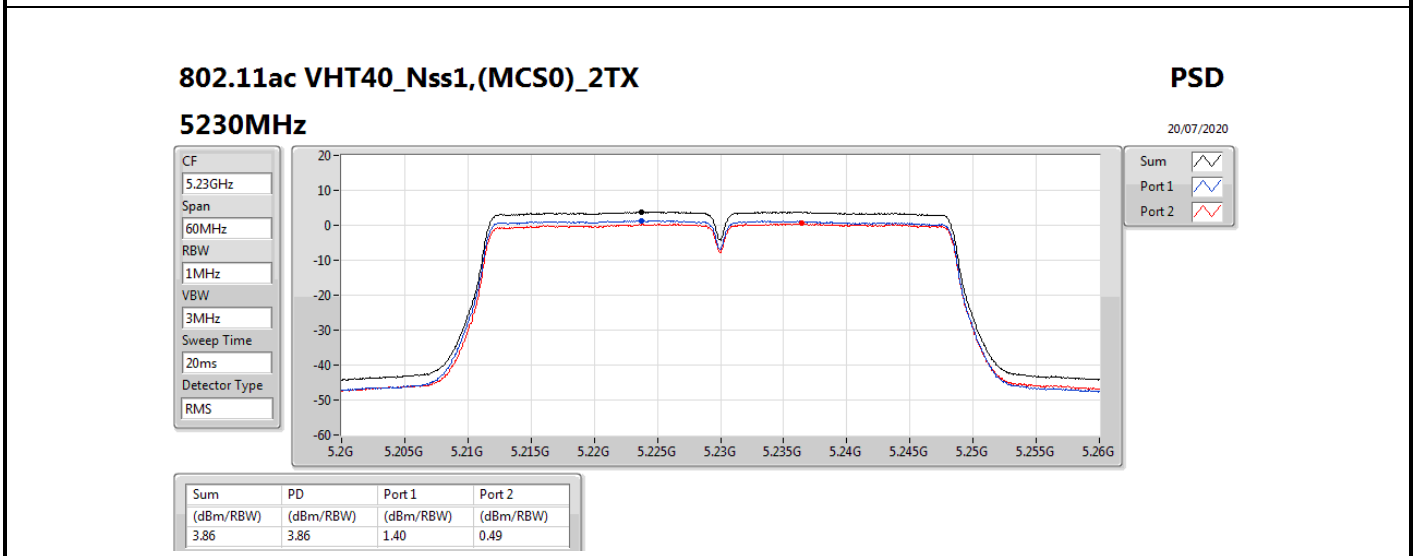
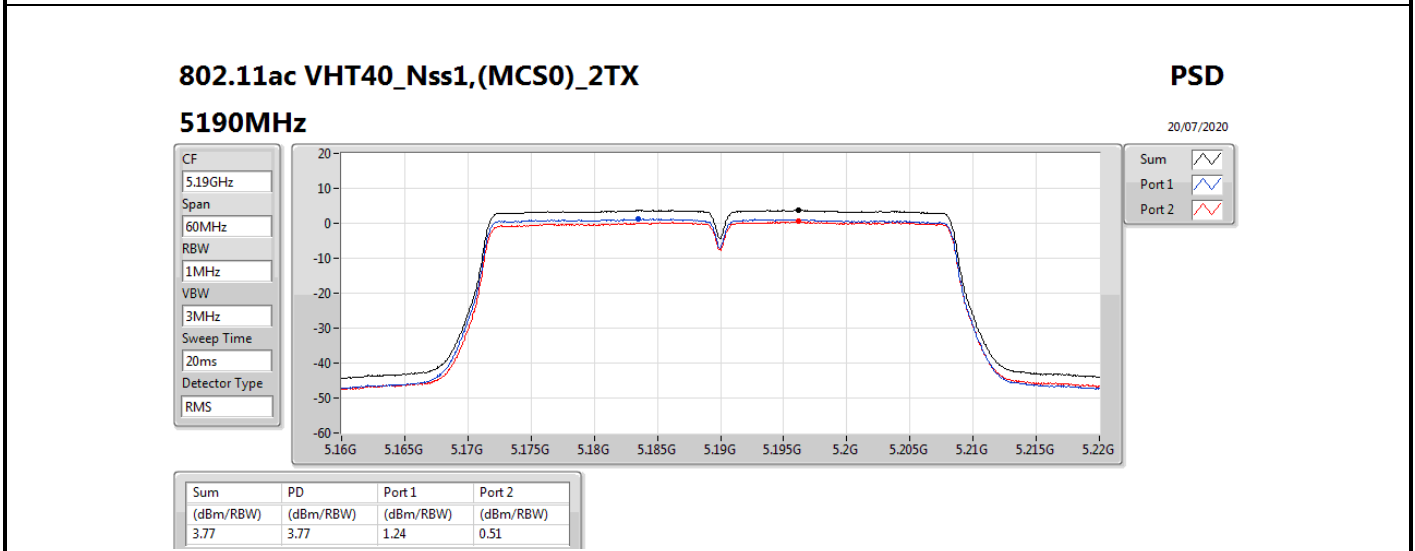
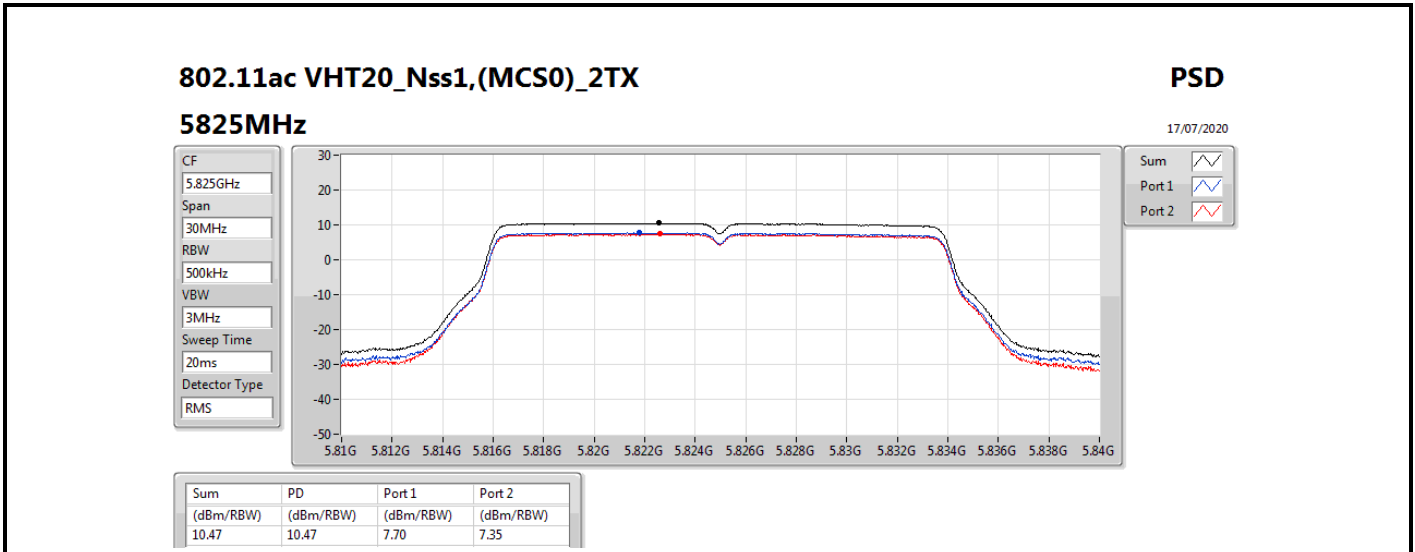
CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.95	6.95	4.11	3.95





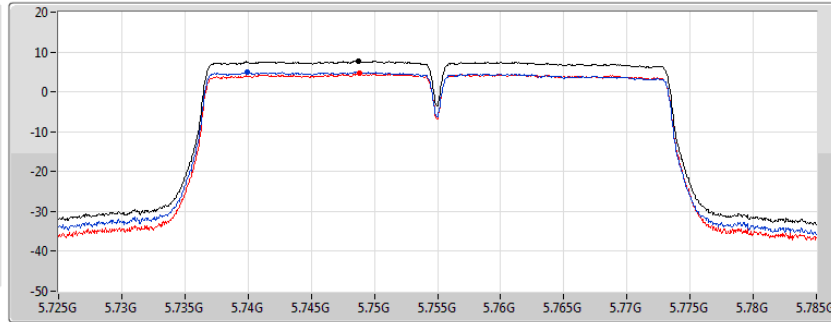
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

17/07/2020

CF
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.69	7.69	4.96	4.56

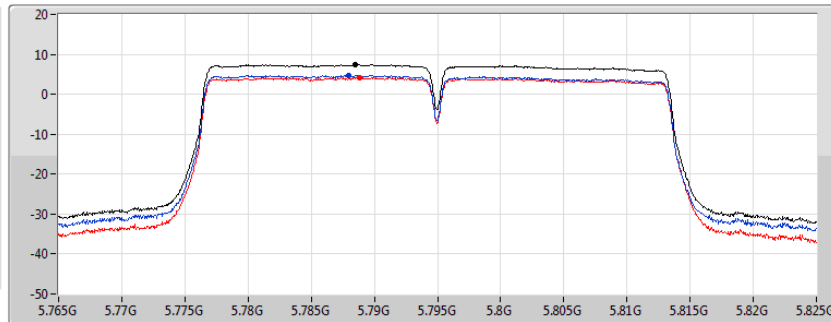
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

17/07/2020

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.41	7.41	4.71	4.16

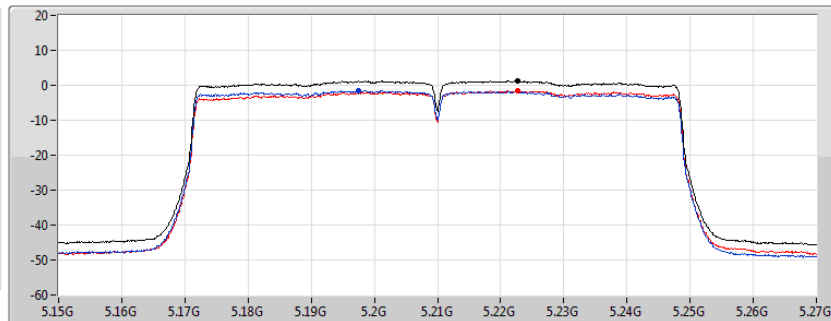
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

20/07/2020

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

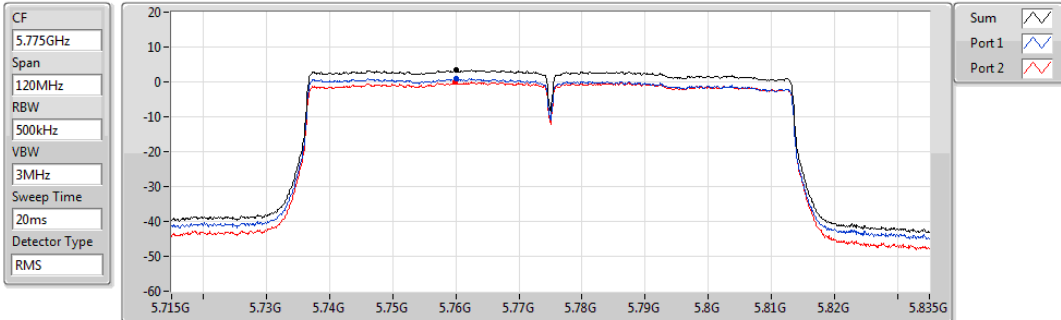
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.29	1.29	-1.41	-1.49

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

18/07/2020



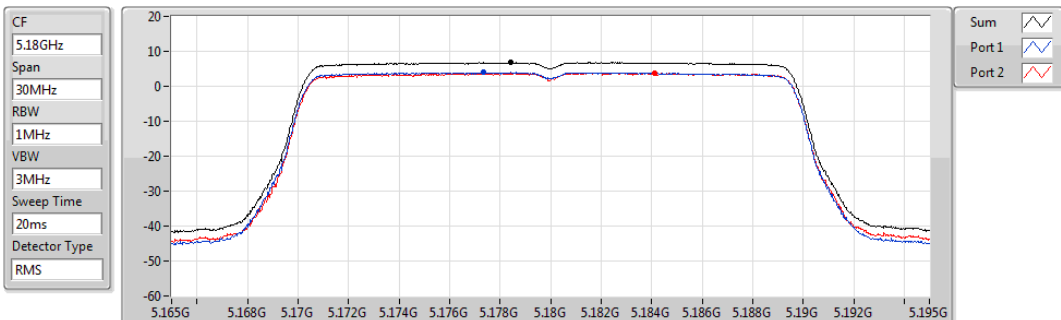
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.50	3.50	0.95	-0.00

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

20/07/2020



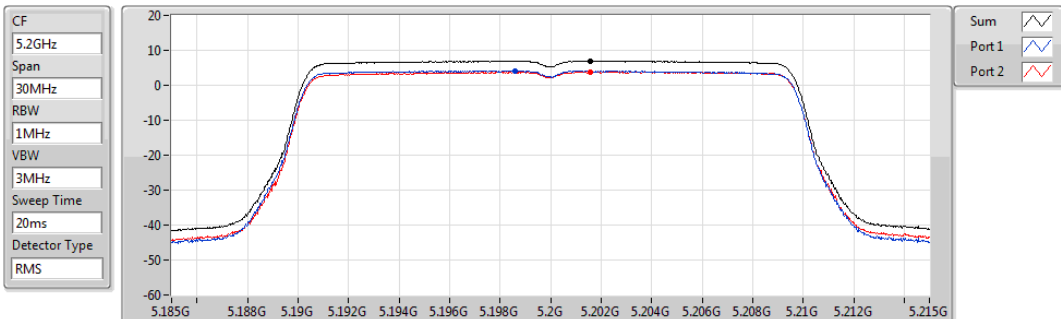
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.77	6.77	3.94	3.74

802.11ax HEW20_Nss1,(MCS0)_2TX

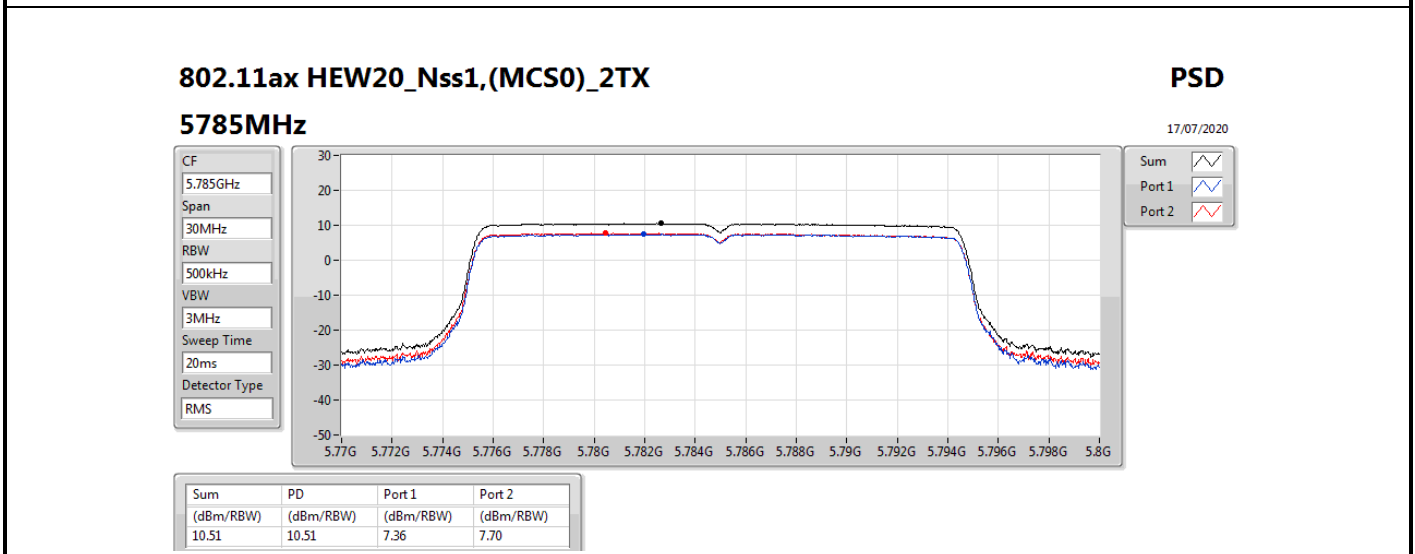
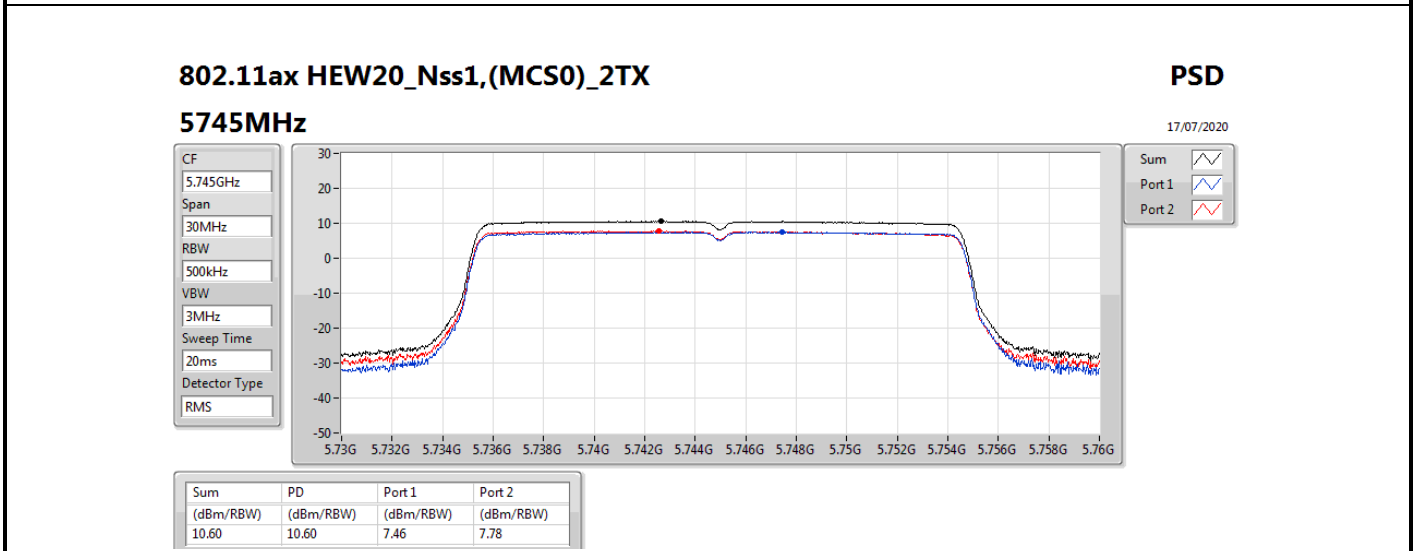
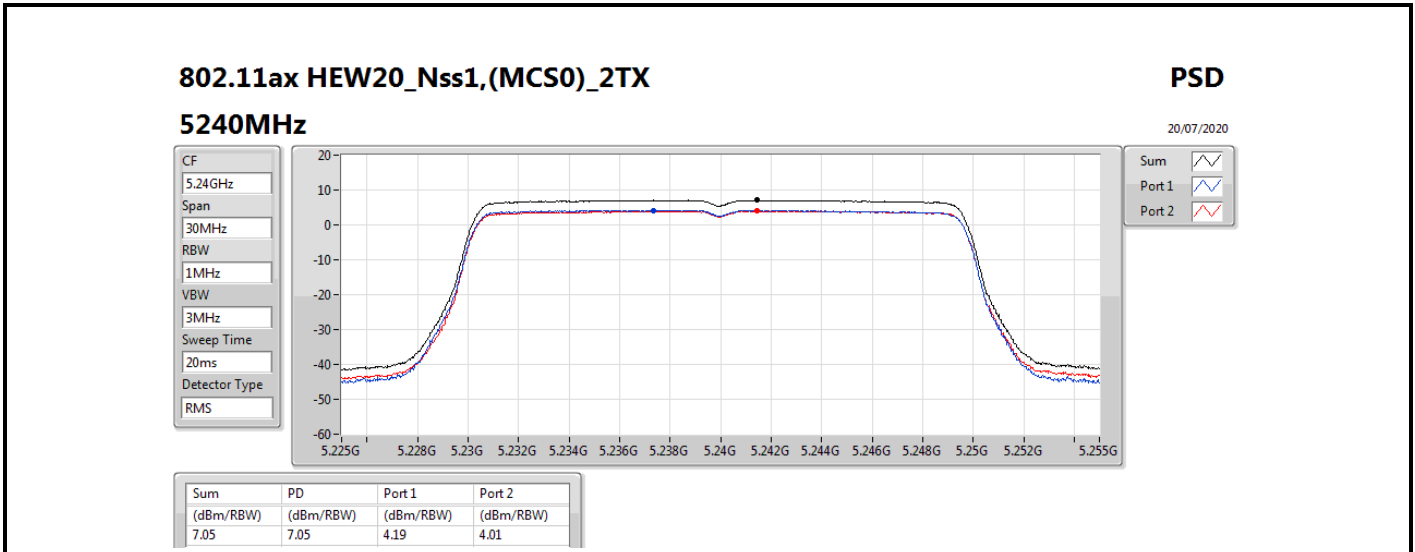
PSD

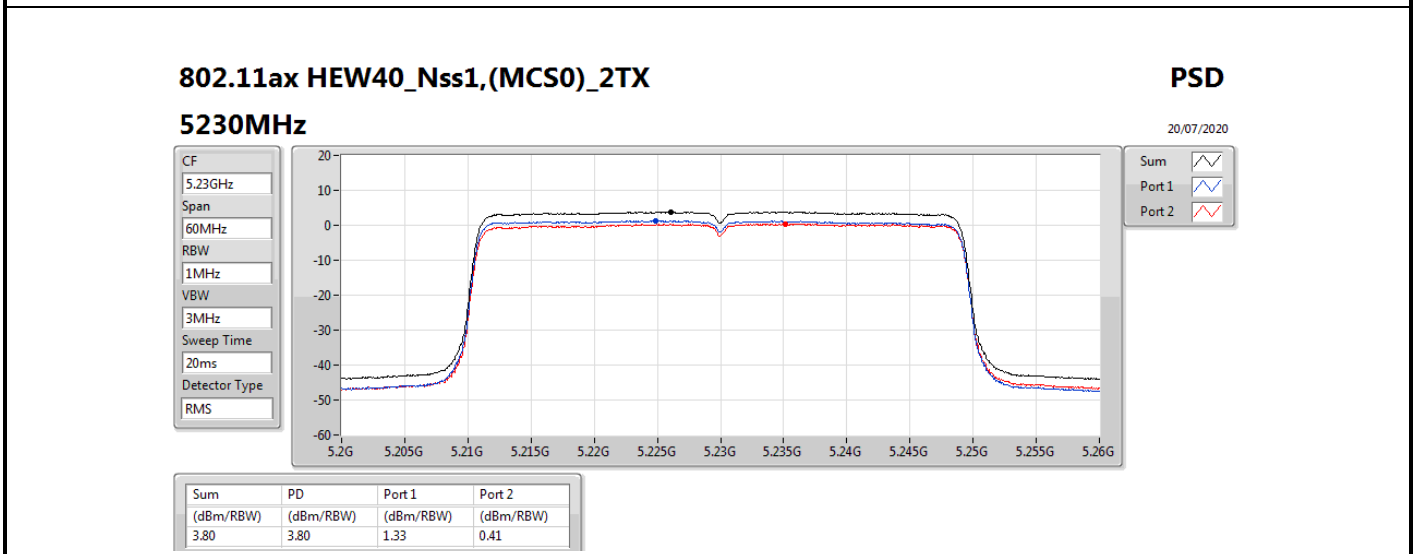
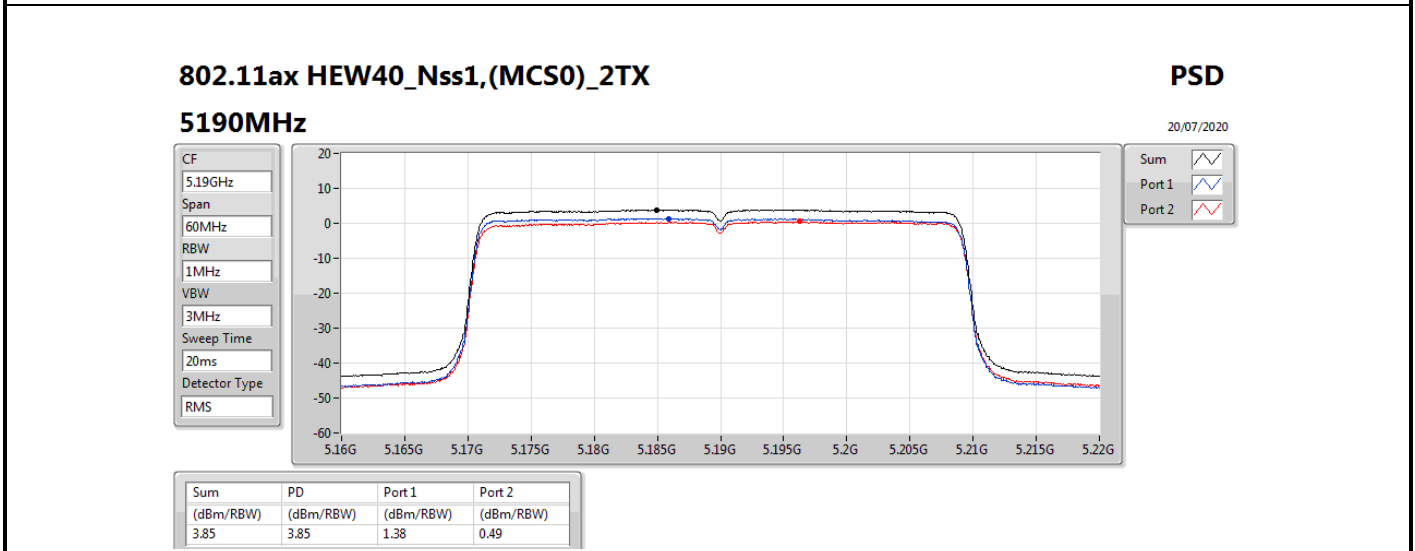
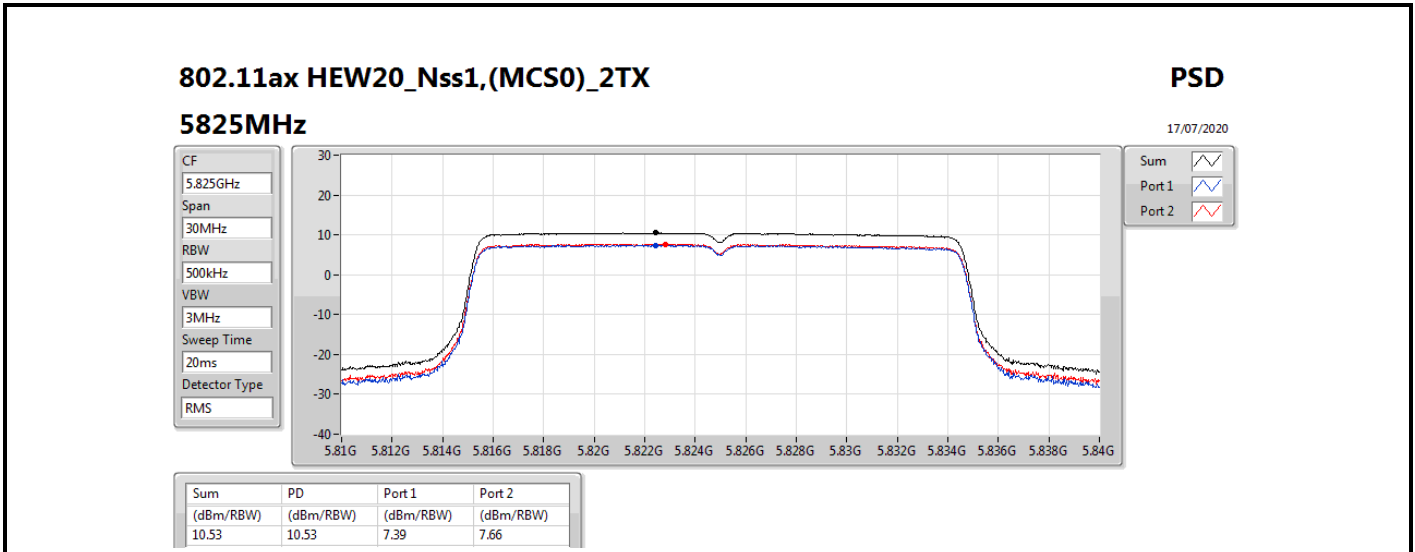
5200MHz

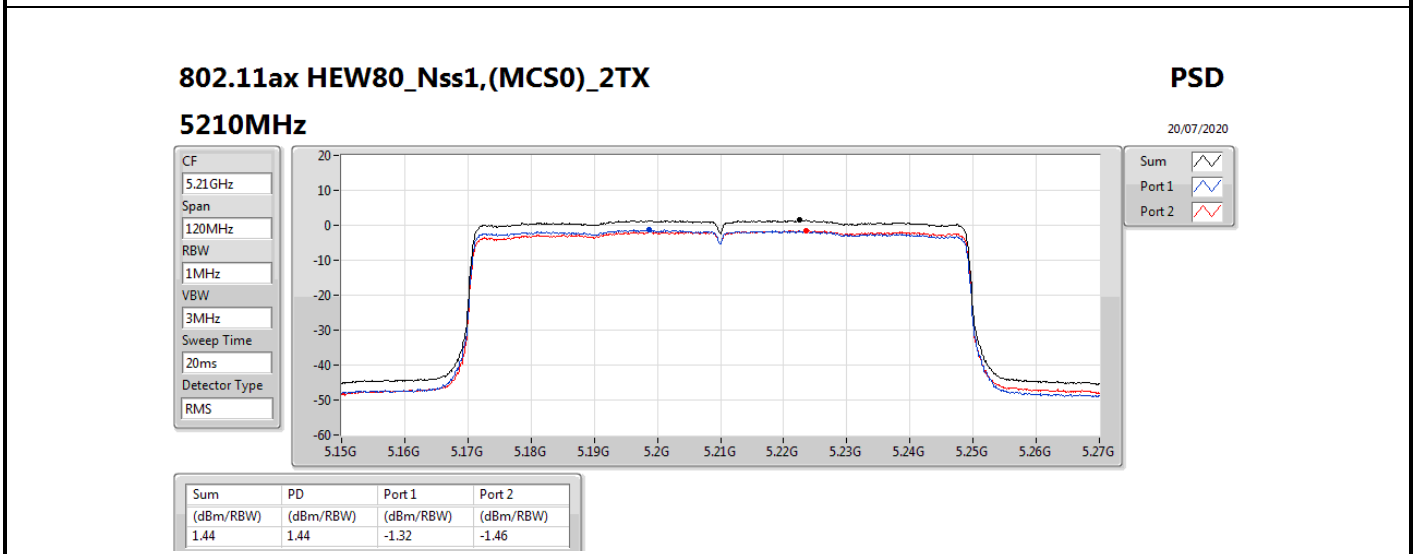
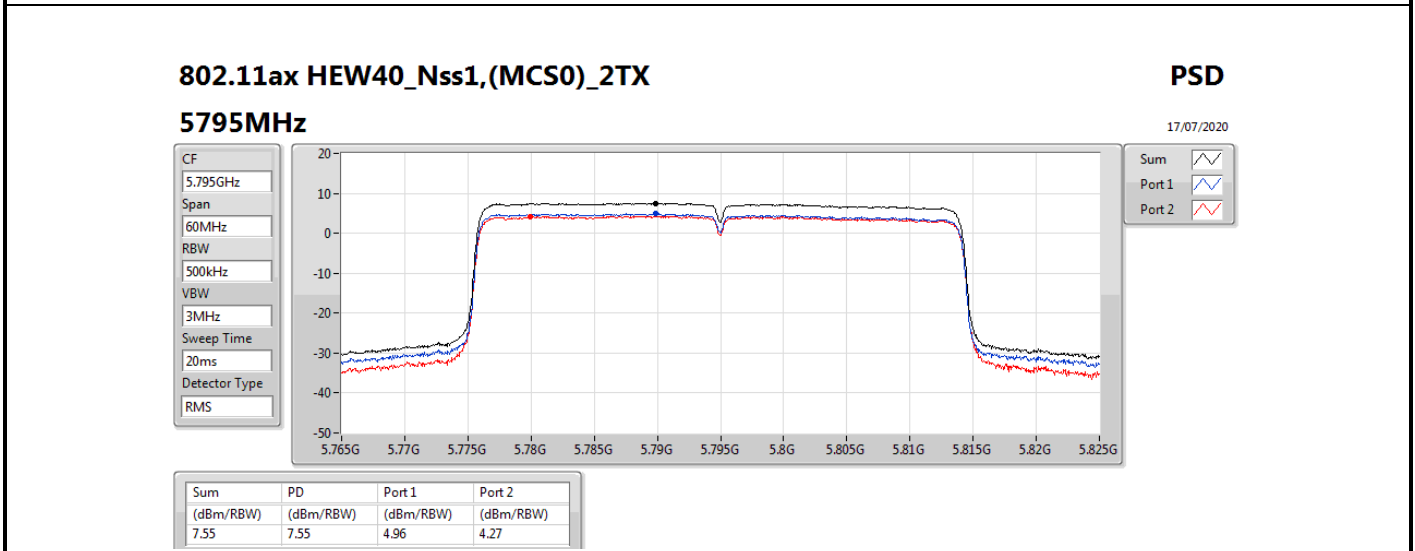
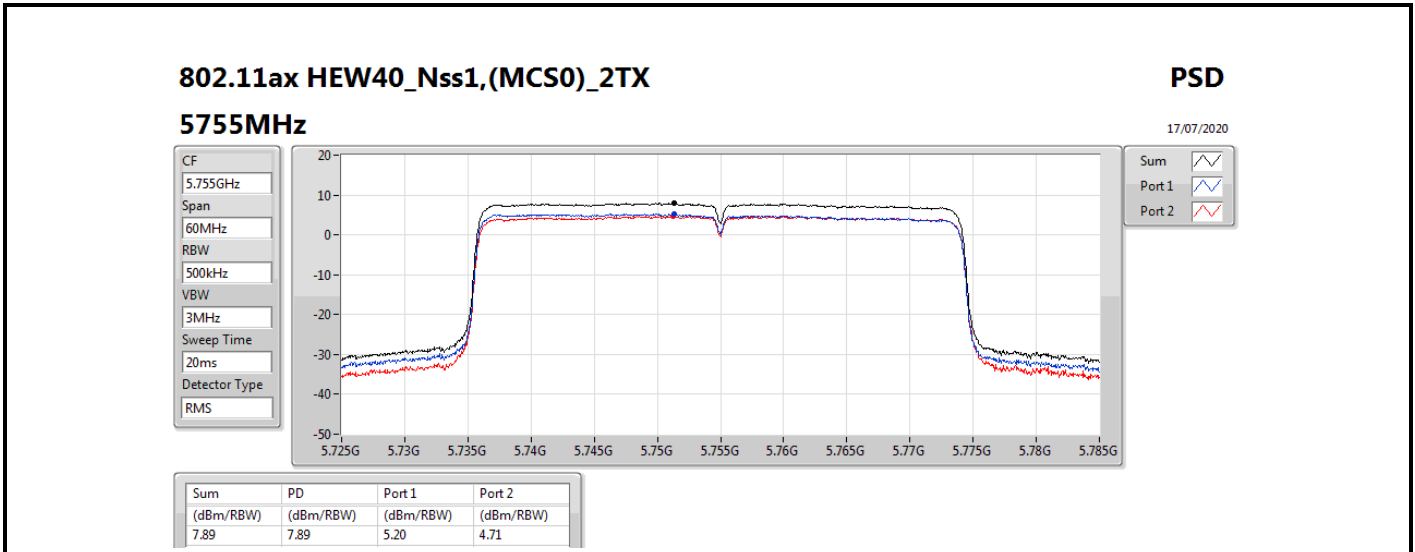
20/07/2020

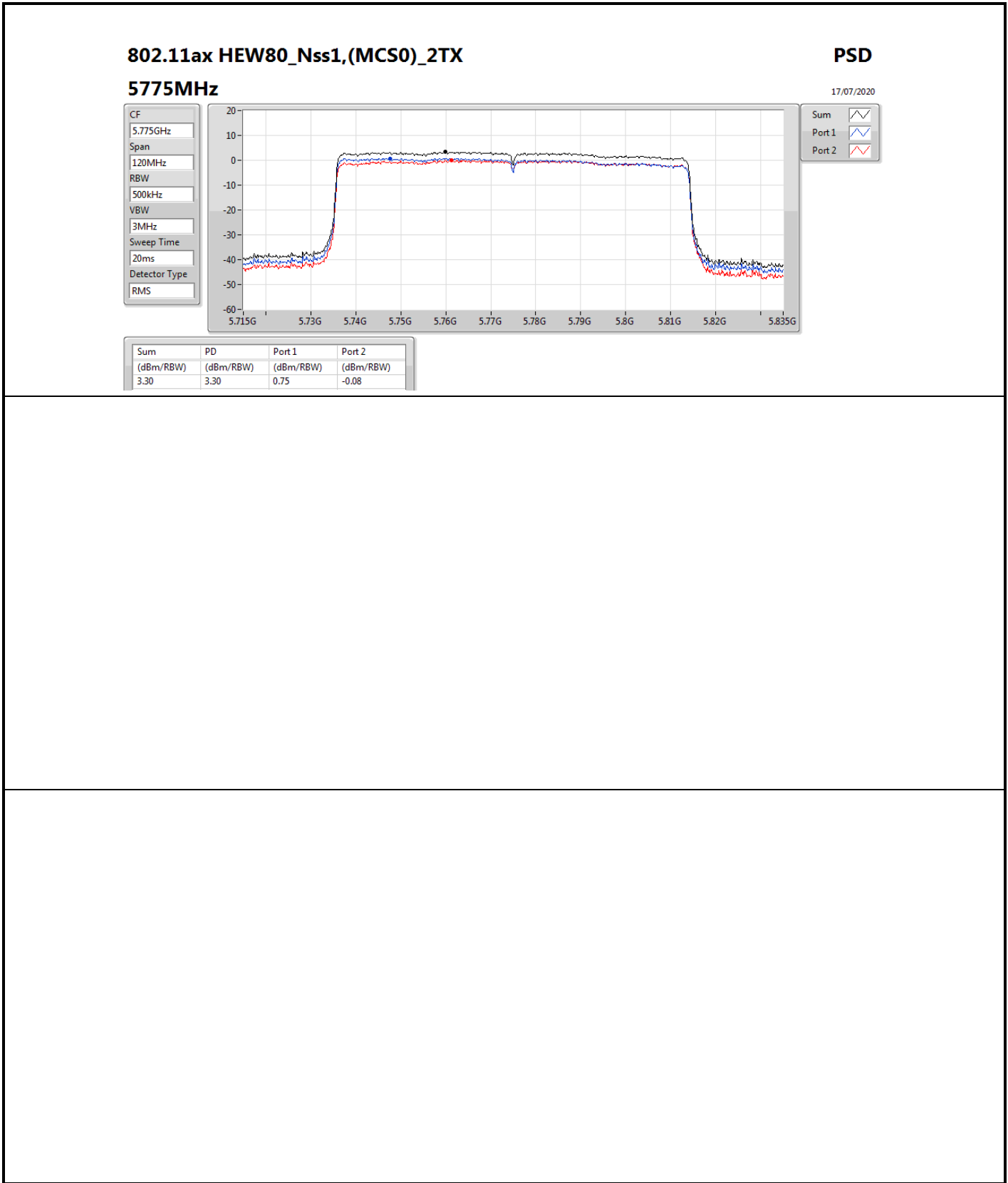


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.95	6.95	4.17	3.84











Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	3.56	7.94
802.11n HT20_Nss1,(MCS0)_2TX	2.55	7.08
802.11n HT40_Nss1,(MCS0)_2TX	-0.23	4.08
802.11ac VHT20_Nss1,(MCS0)_2TX	2.69	7.08
802.11ac VHT40_Nss1,(MCS0)_2TX	-0.03	4.39
802.11ac VHT80_Nss1,(MCS0)_2TX	-3.09	1.52
802.11ax HEW20_Nss1,(MCS0)_2TX	2.89	7.35
802.11ax HEW40_Nss1,(MCS0)_2TX	0.10	4.48
802.11ax HEW80_Nss1,(MCS0)_2TX	-2.92	1.76
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.22	14.44
802.11n HT20_Nss1,(MCS0)_2TX	9.69	14.00
802.11n HT40_Nss1,(MCS0)_2TX	6.96	11.39
802.11ac VHT20_Nss1,(MCS0)_2TX	9.77	14.00
802.11ac VHT40_Nss1,(MCS0)_2TX	6.95	11.30
802.11ac VHT80_Nss1,(MCS0)_2TX	3.34	7.55
802.11ax HEW20_Nss1,(MCS0)_2TX	9.77	13.94
802.11ax HEW40_Nss1,(MCS0)_2TX	6.99	11.38
802.11ax HEW80_Nss1,(MCS0)_2TX	3.56	7.85

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



Result

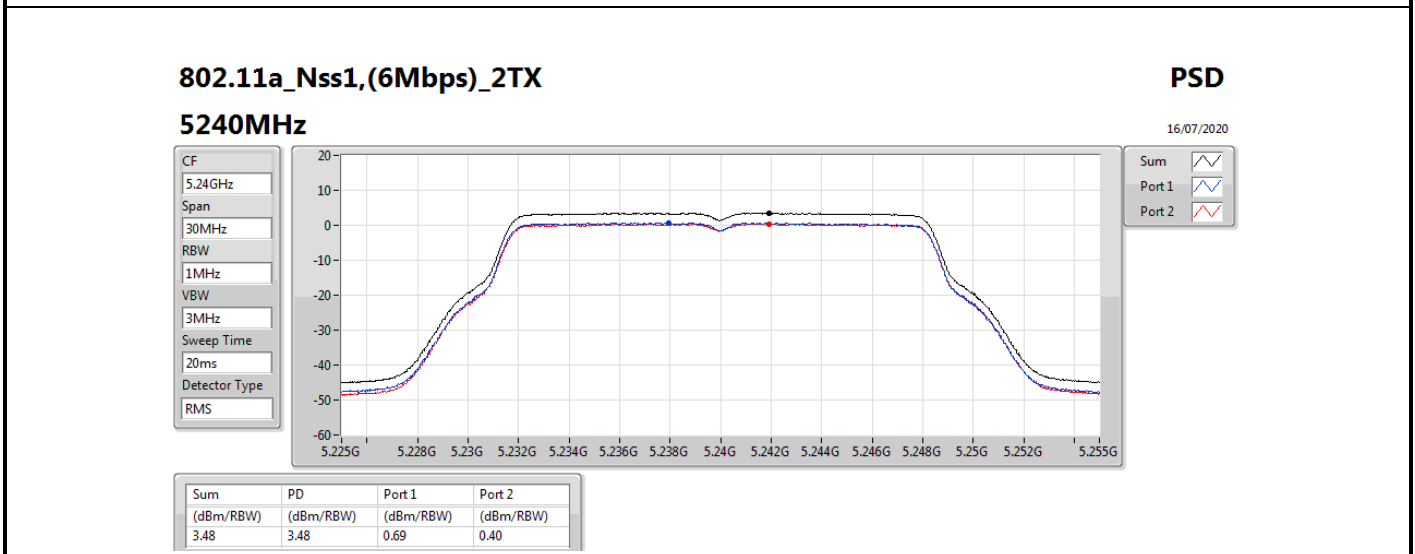
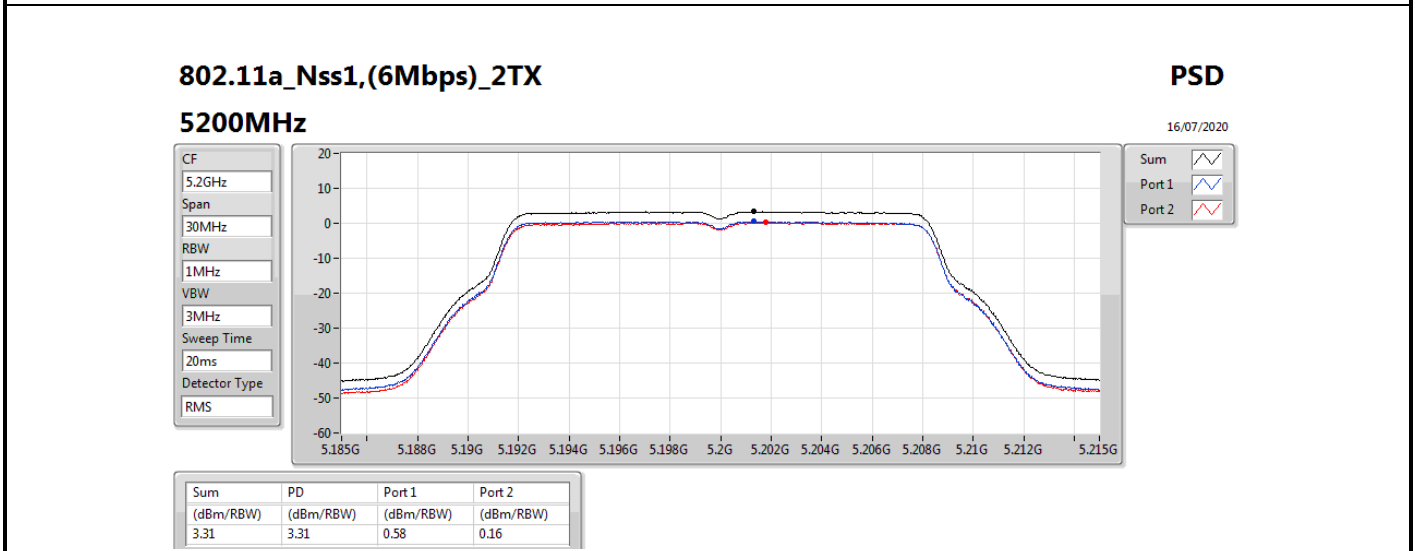
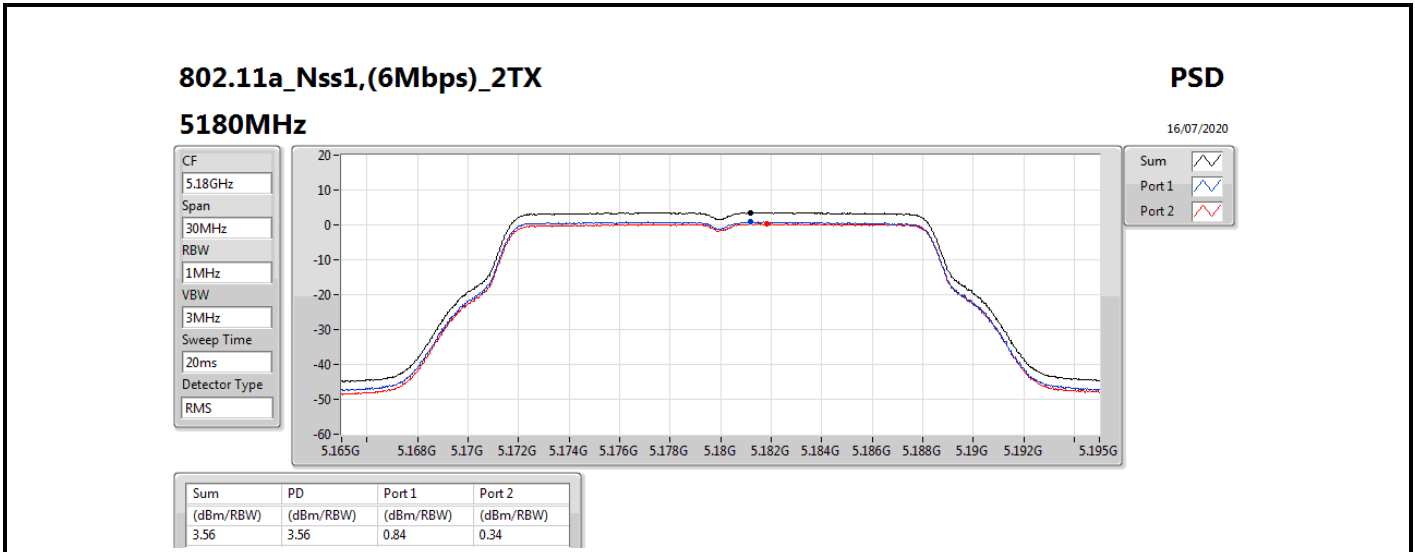
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	0.84	0.34	3.56	15.90	7.94	23.00
5200MHz	Pass	7.10	0.58	0.16	3.31	15.90	7.68	23.00
5240MHz	Pass	7.10	0.69	0.40	3.48	15.90	7.79	23.00
5745MHz	Pass	7.10	7.34	7.25	10.20	28.90	14.44	36.00
5785MHz	Pass	7.10	7.21	7.34	10.22	28.90	14.44	36.00
5825MHz	Pass	7.10	7.11	7.26	10.15	28.90	14.36	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	-0.03	-0.73	2.55	15.90	7.07	23.00
5200MHz	Pass	7.10	-0.02	-0.91	2.43	15.90	7.08	23.00
5240MHz	Pass	7.10	-0.13	-0.64	2.51	15.90	6.97	23.00
5745MHz	Pass	7.10	6.58	6.67	9.51	28.90	13.77	36.00
5785MHz	Pass	7.10	6.87	6.76	9.69	28.90	13.97	36.00
5825MHz	Pass	7.10	6.9	6.54	9.69	28.90	14.00	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	-3.02	-3.26	-0.23	15.90	4.08	23.00
5230MHz	Pass	7.10	-3.02	-3.48	-0.28	15.90	4.08	23.00
5755MHz	Pass	7.10	4.29	3.82	6.91	28.90	11.39	36.00
5795MHz	Pass	7.10	4.24	3.87	6.96	28.90	11.34	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	-0.02	-0.50	2.69	15.90	7.08	23.00
5200MHz	Pass	7.10	-0.14	-0.65	2.56	15.90	6.96	23.00
5240MHz	Pass	7.10	-0.17	-0.39	2.65	15.90	6.93	23.00
5745MHz	Pass	7.10	6.40	6.62	9.46	28.90	13.72	36.00
5785MHz	Pass	7.10	6.75	6.90	9.77	28.90	14.00	36.00
5825MHz	Pass	7.10	6.55	6.44	9.45	28.90	13.65	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	-2.71	-3.04	-0.03	15.90	4.39	23.00
5230MHz	Pass	7.10	-2.90	-3.24	-0.17	15.90	4.20	23.00
5755MHz	Pass	7.10	4.15	3.62	6.82	28.90	11.25	36.00
5795MHz	Pass	7.10	4.20	3.87	6.95	28.90	11.30	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.10	-5.58	-6.26	-3.09	15.90	1.52	23.00
5775MHz	Pass	7.10	0.37	0.45	3.34	28.90	7.55	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.10	0.25	-0.33	2.89	15.90	7.35	23.00
5200MHz	Pass	7.10	0.03	-0.53	2.71	15.90	7.13	23.00
5240MHz	Pass	7.10	0.03	-0.24	2.82	15.90	7.13	23.00
5745MHz	Pass	7.10	6.58	6.37	9.43	28.90	13.68	36.00
5785MHz	Pass	7.10	6.74	6.84	9.77	28.90	13.94	36.00
5825MHz	Pass	7.10	6.60	6.35	9.42	28.90	13.70	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.10	-2.62	-3.08	0.10	15.90	4.48	23.00
5230MHz	Pass	7.10	-2.71	-3.32	-0.05	15.90	4.39	23.00

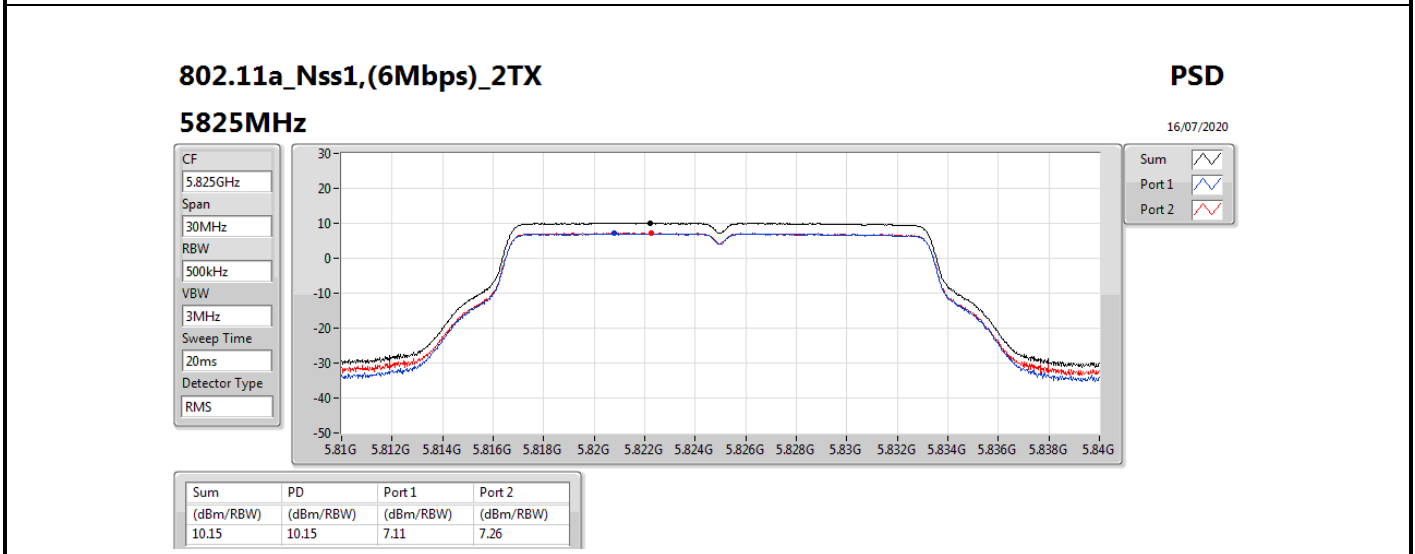
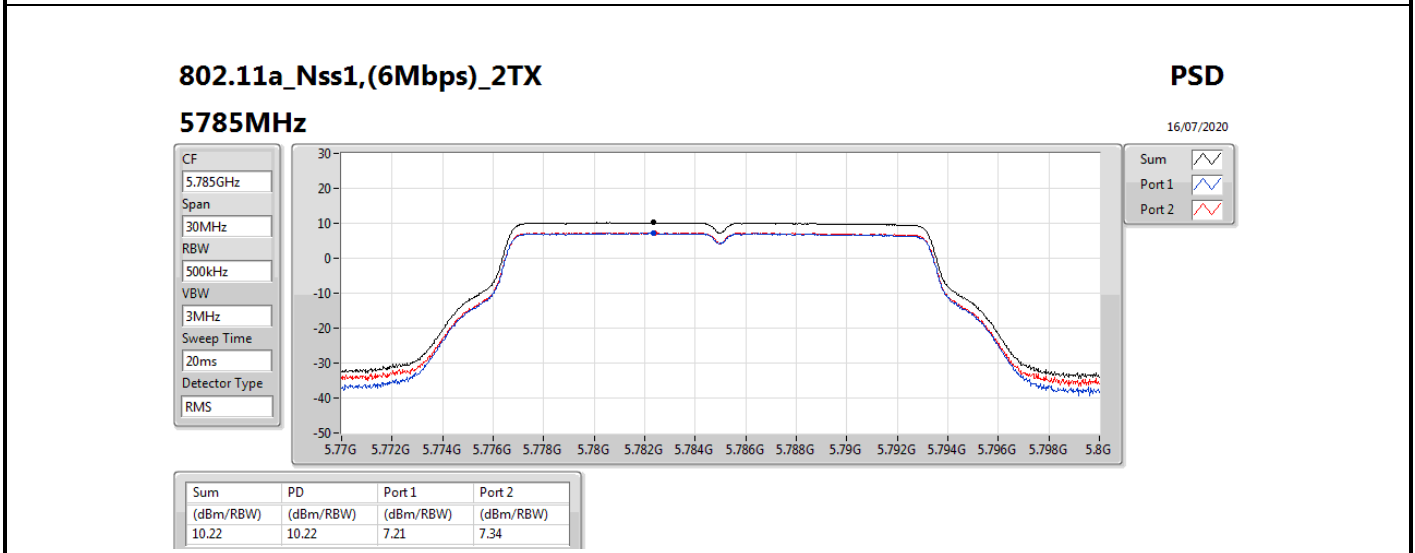
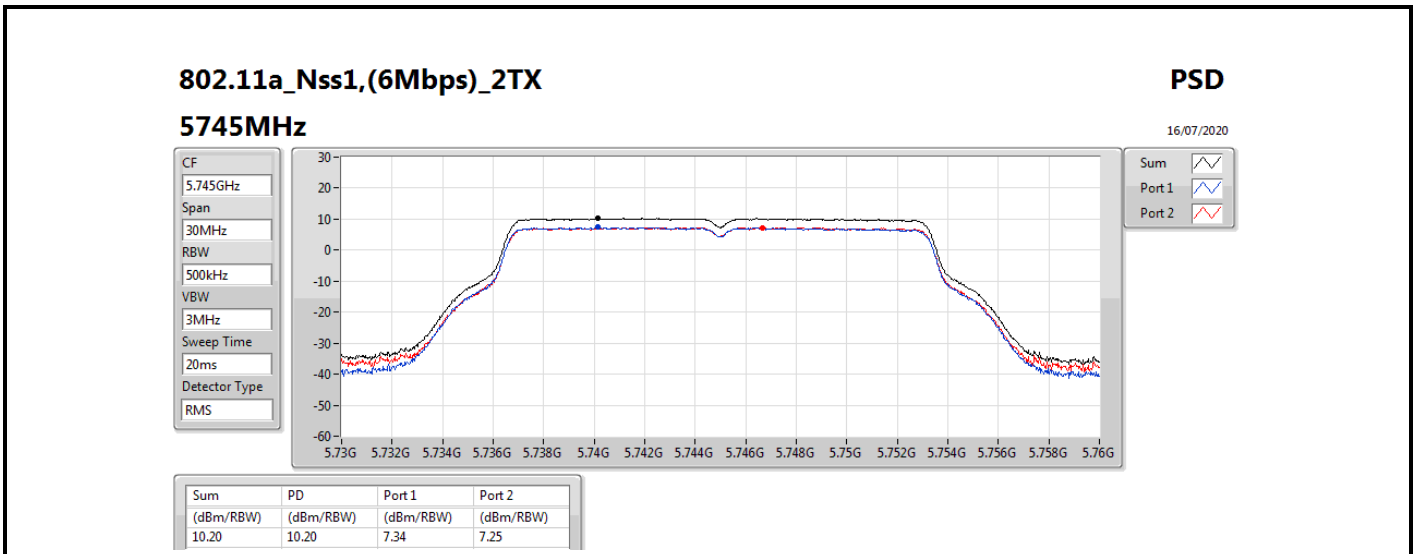


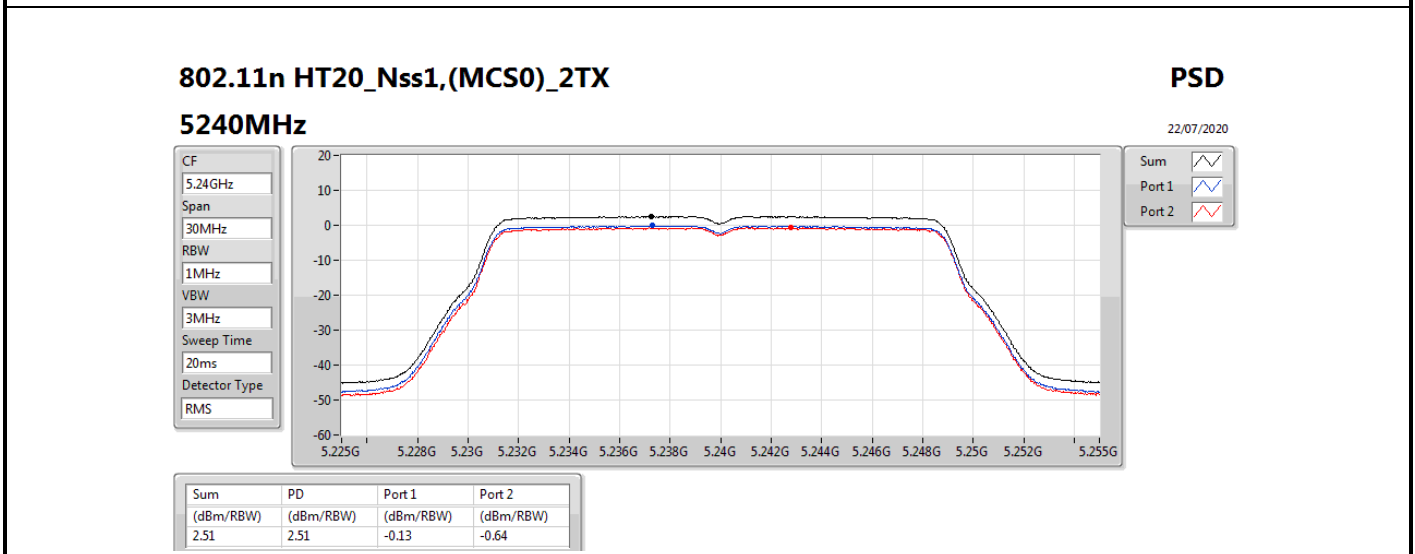
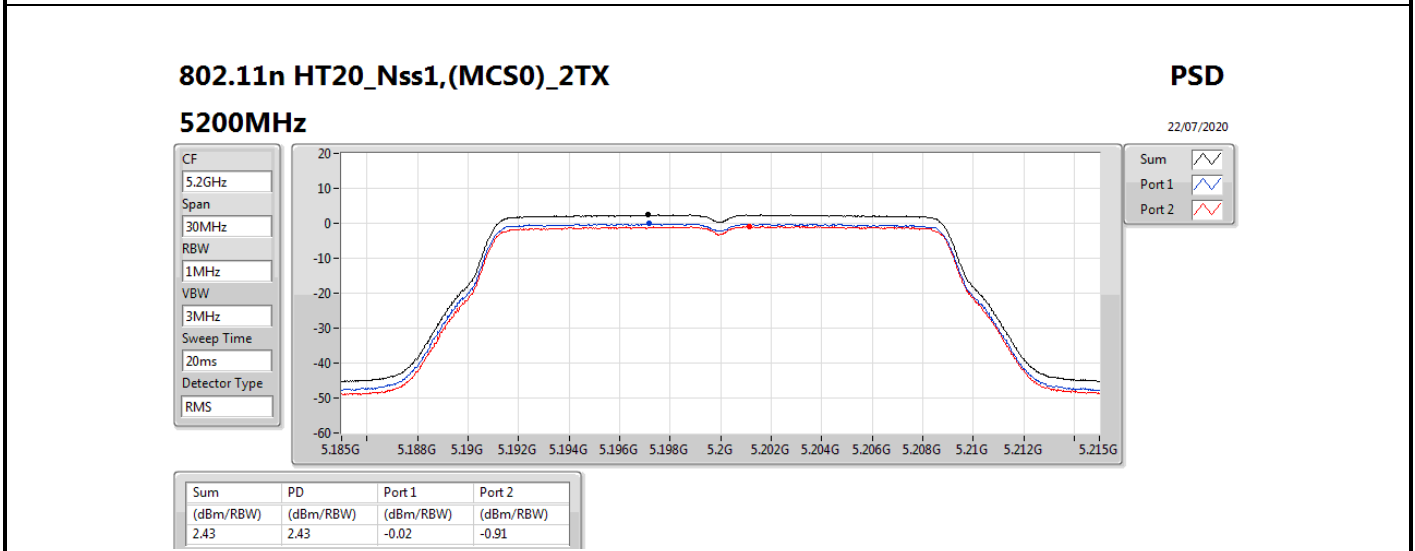
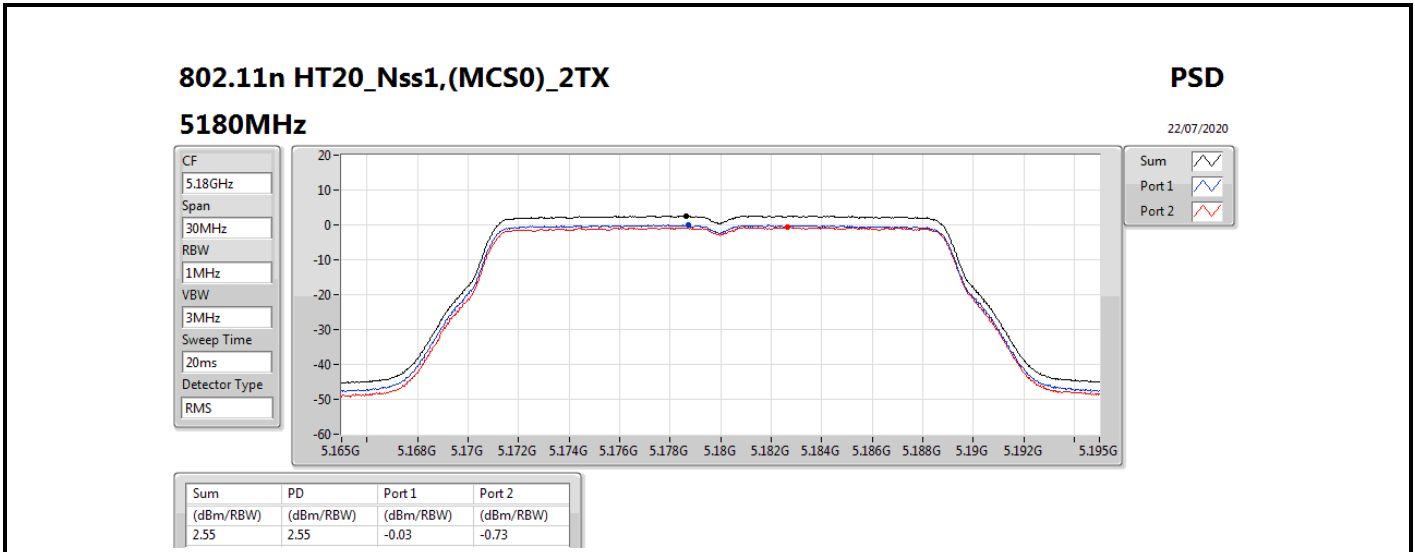
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5755MHz	Pass	7.10	4.28	3.73	6.99	28.90	11.38	36.00
5795MHz	Pass	7.10	4.15	3.50	6.78	28.90	11.25	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.10	-5.34	-6.15	-2.92	15.90	1.76	23.00
5775MHz	Pass	7.10	0.75	0.63	3.56	28.90	7.85	36.00

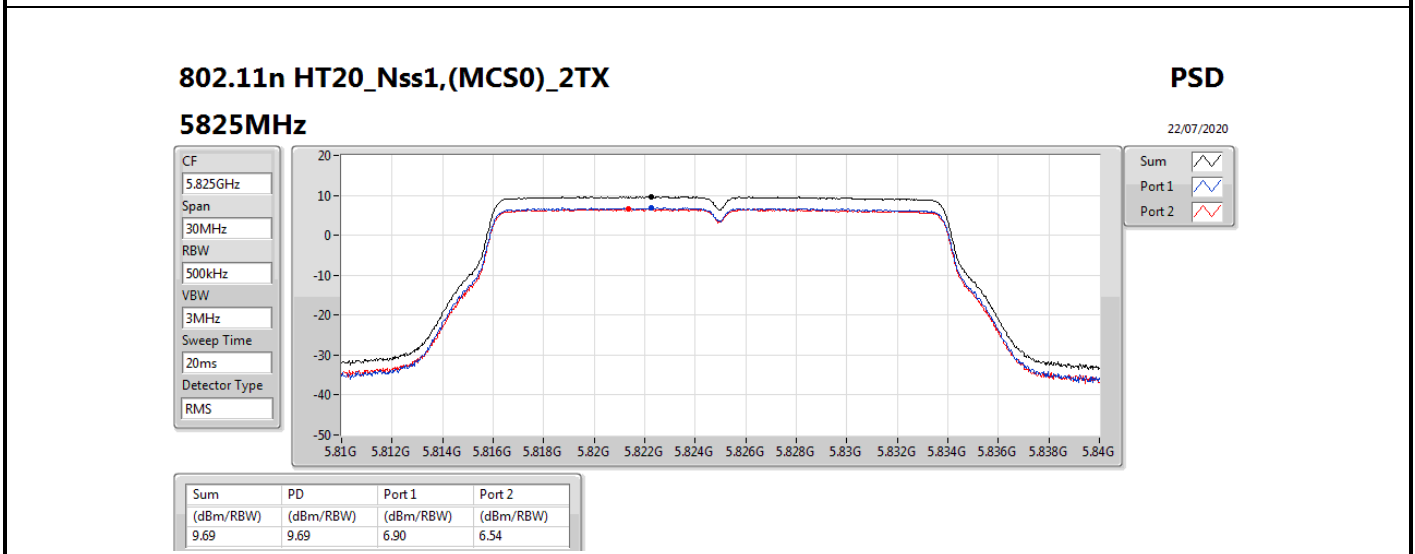
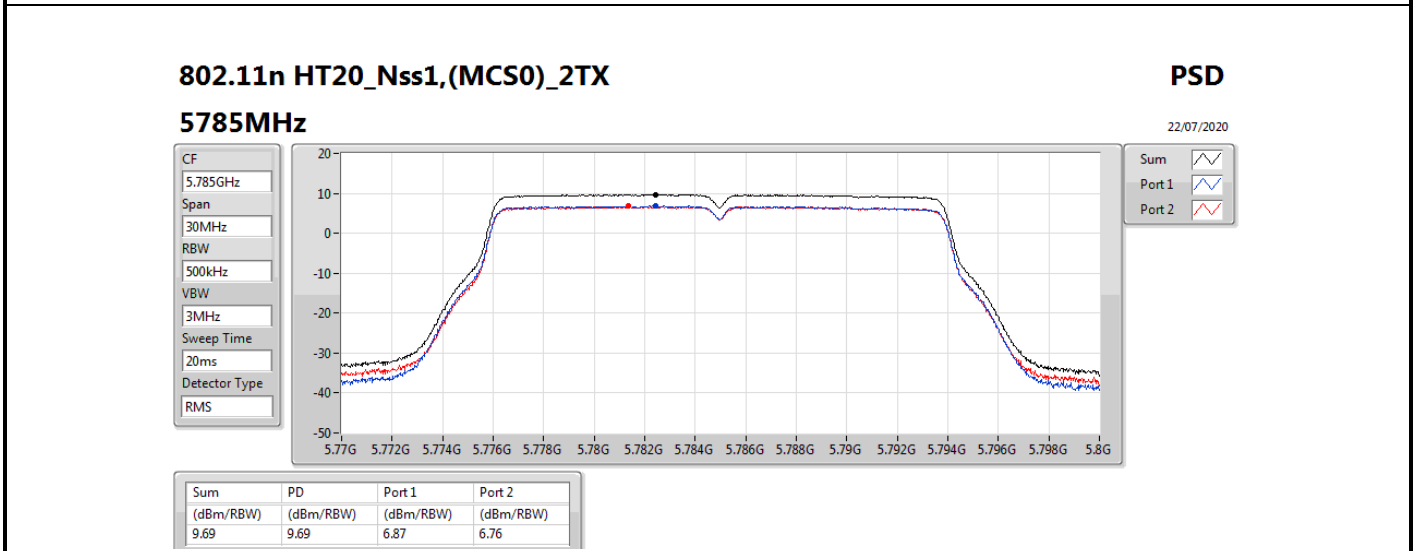
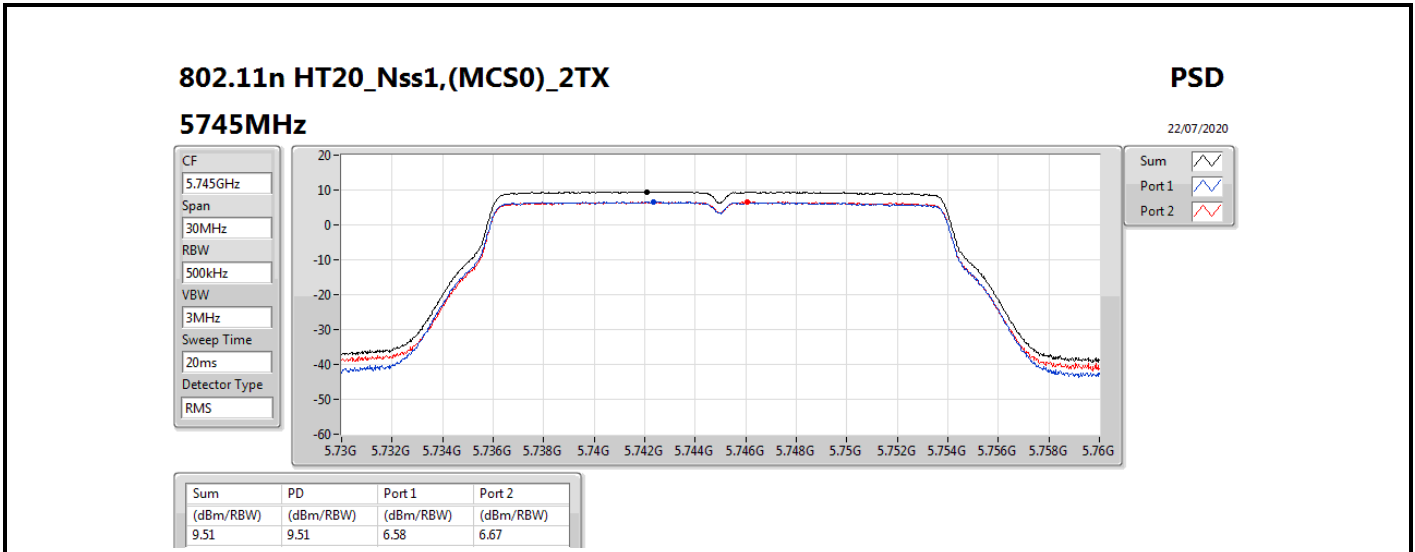
DG = Directional Gain; RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

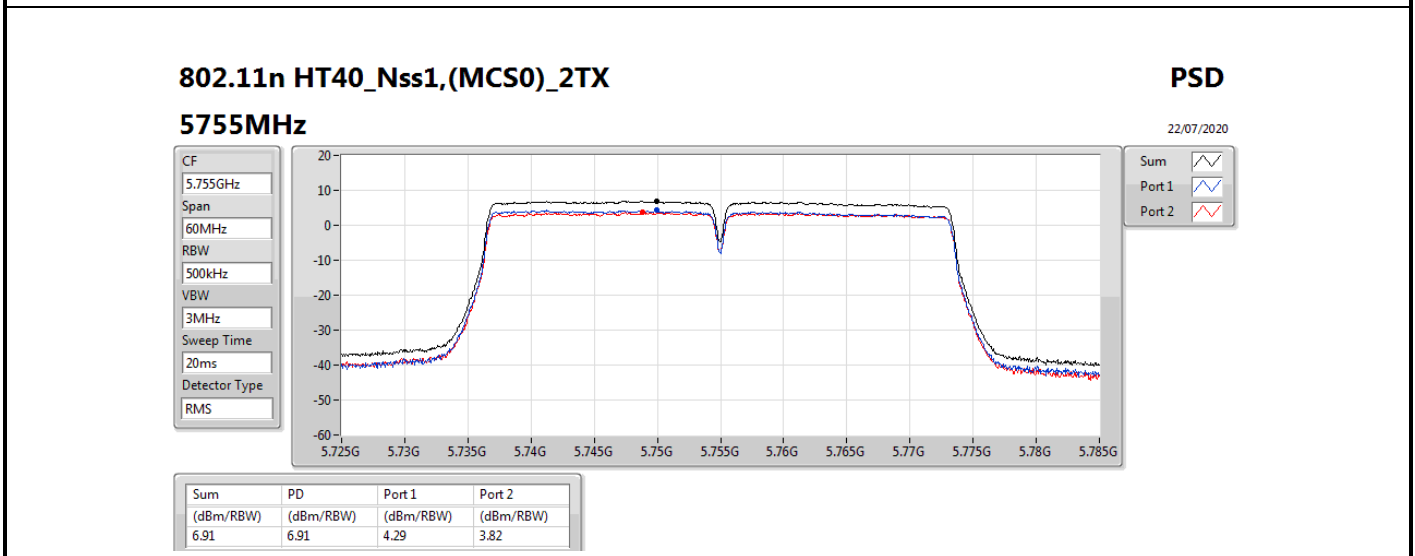
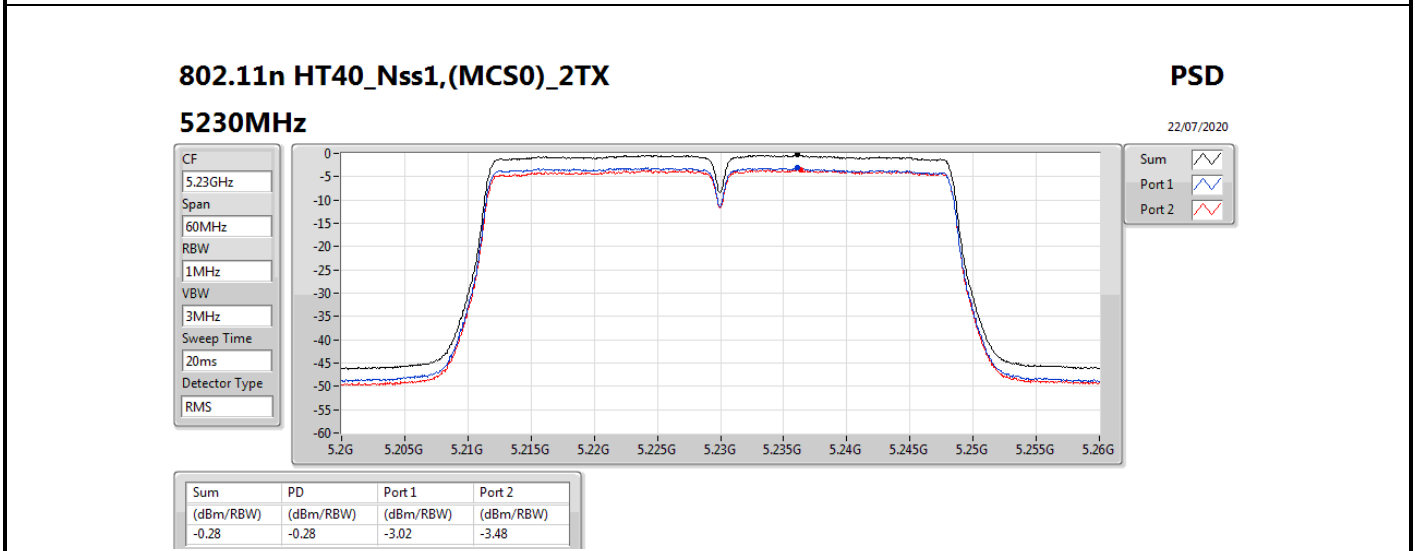
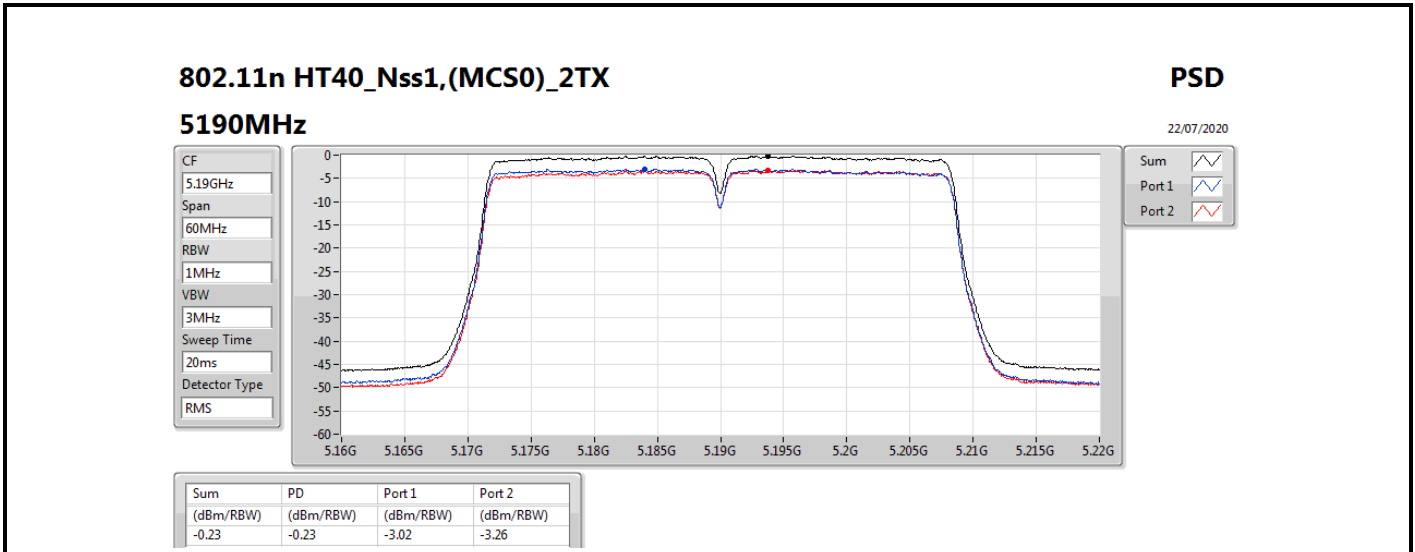
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

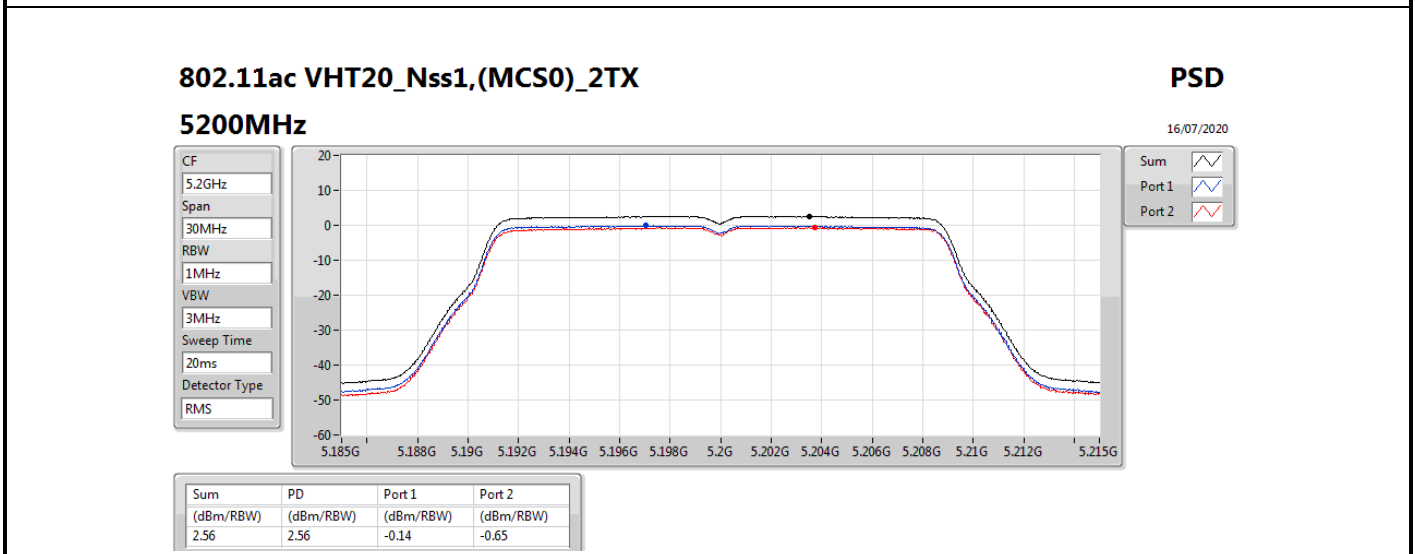
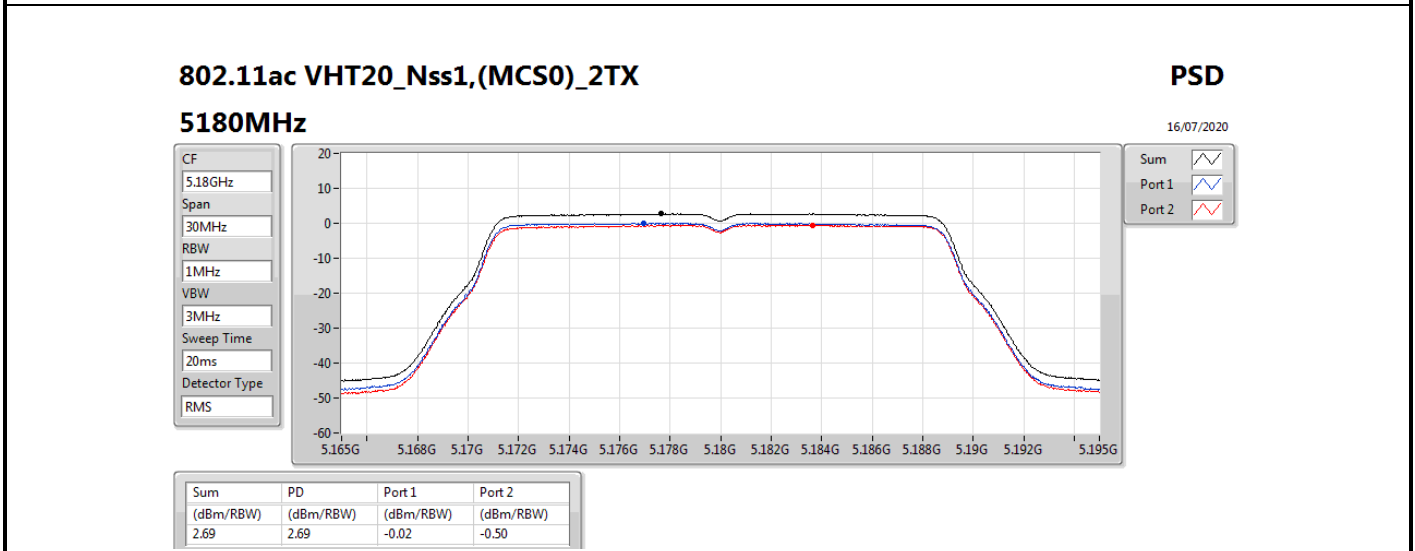
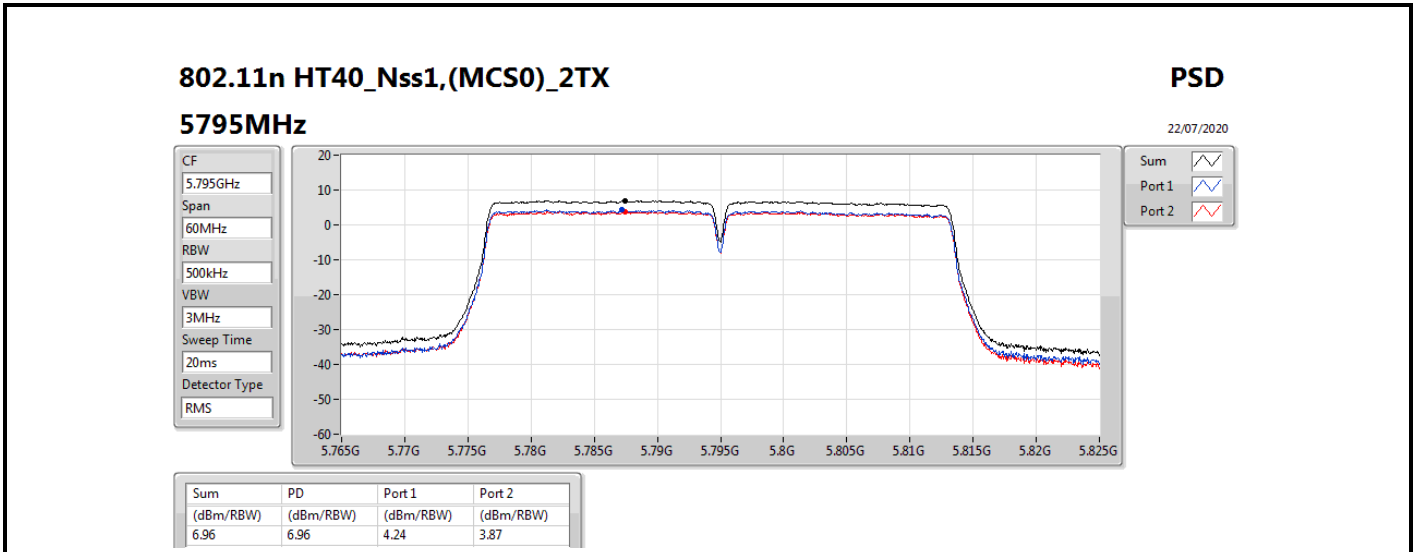


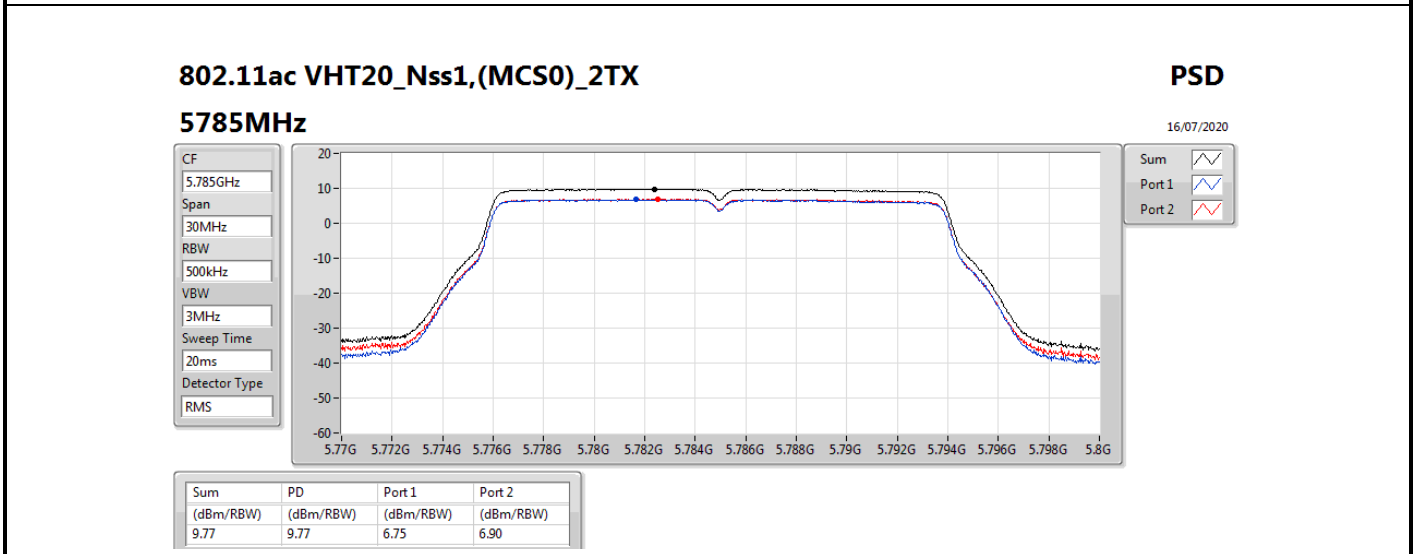
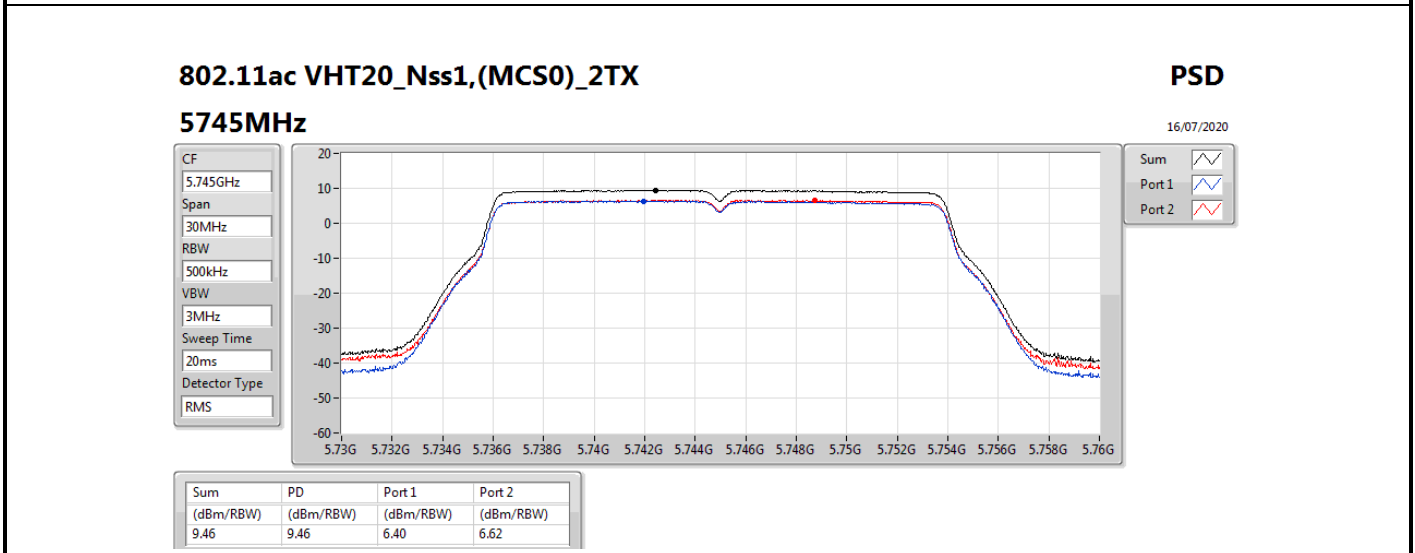
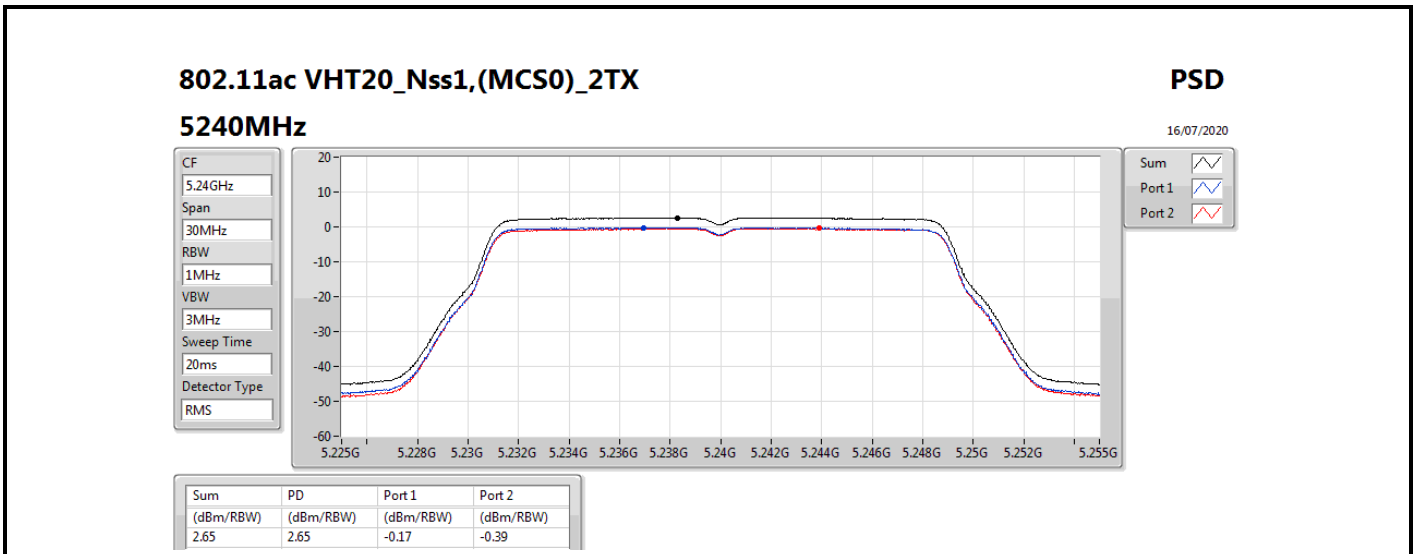


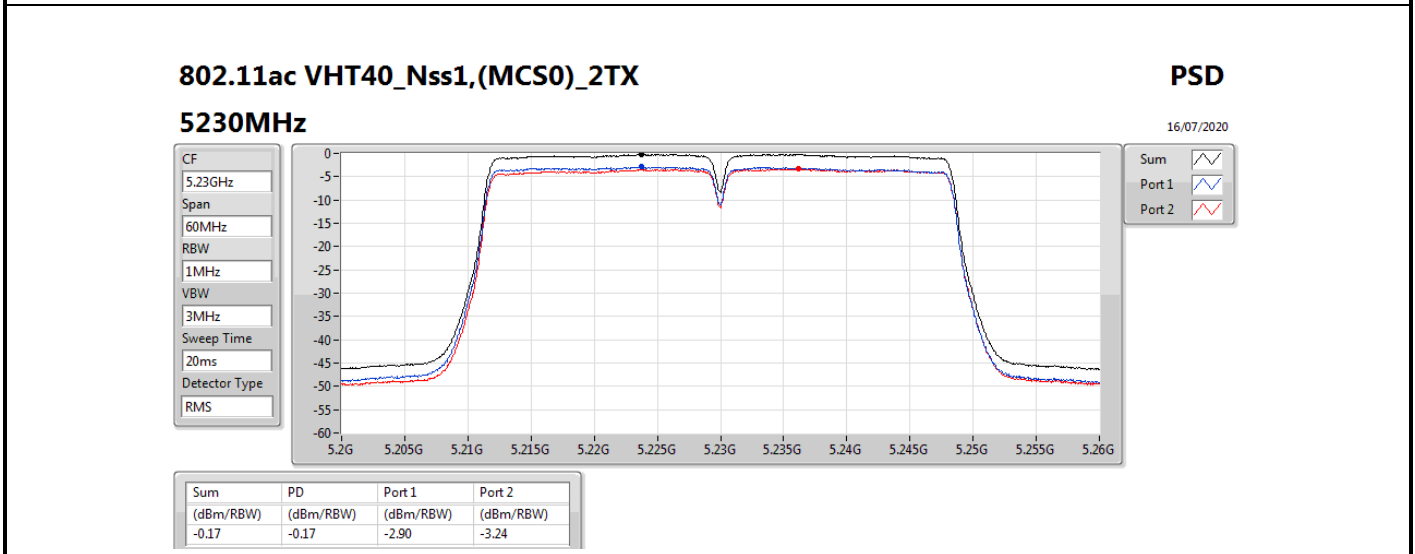
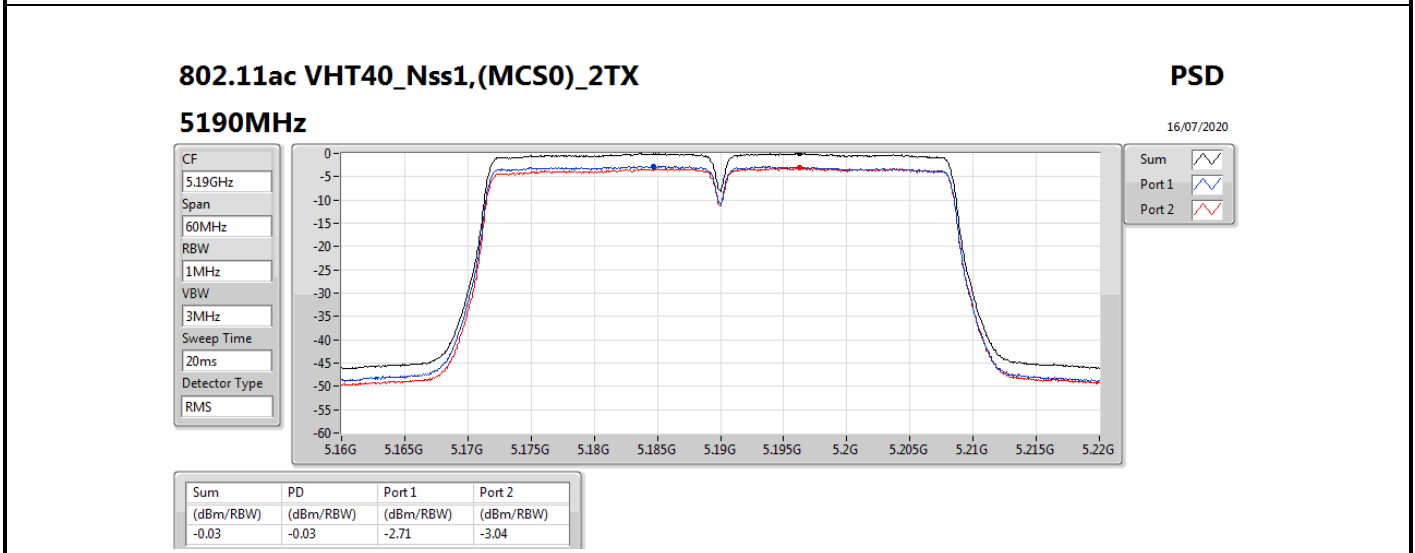
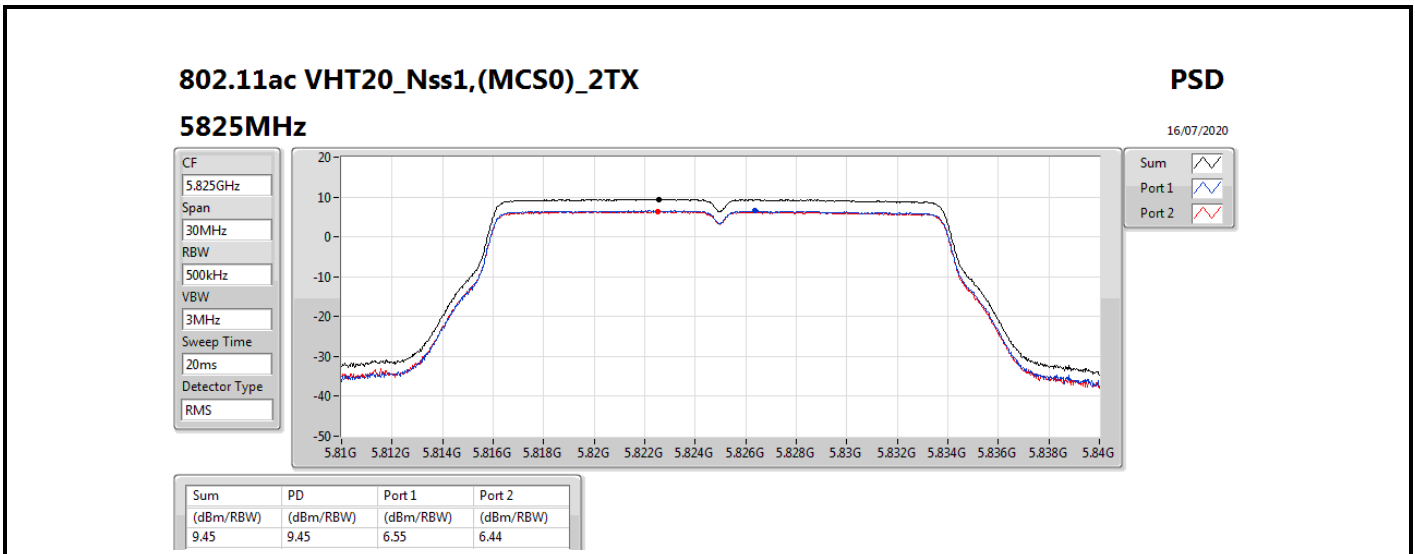












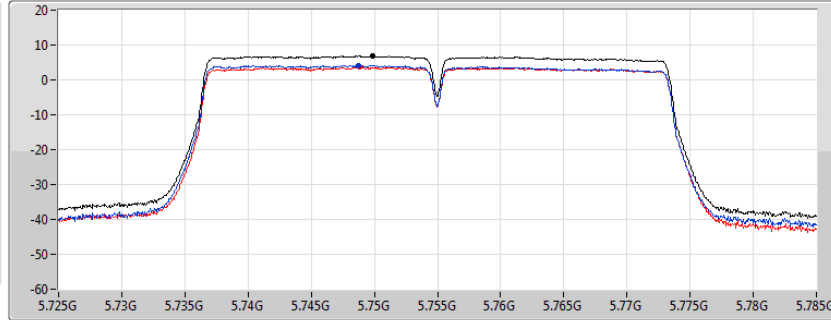
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

16/07/2020

CF
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.82	6.82	4.15	3.62

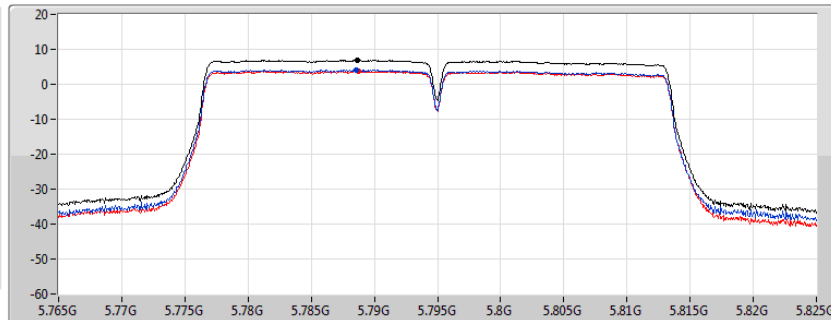
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

16/07/2020

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.95	6.95	4.20	3.87

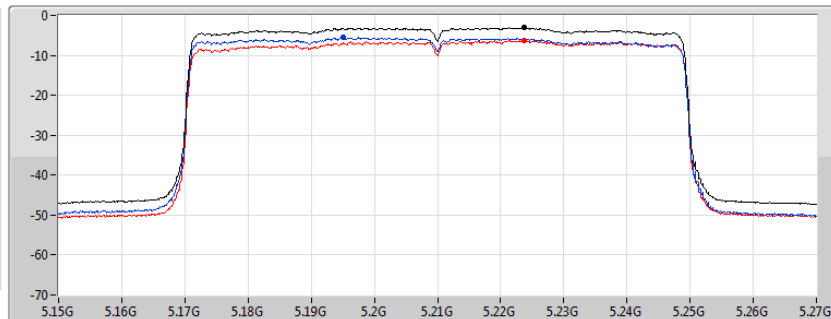
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

16/07/2020

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.09	-3.09	-5.58	-6.26

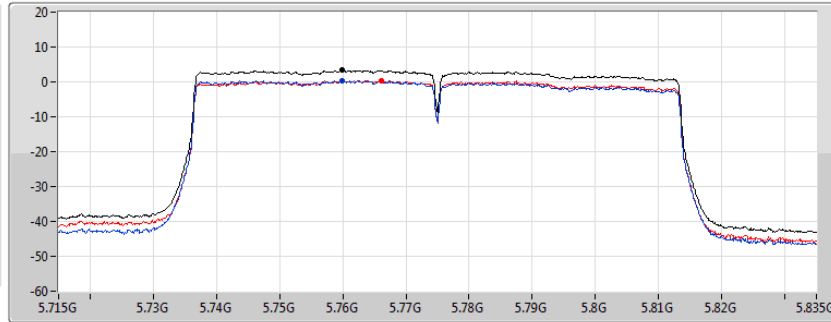
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

16/07/2020

CF
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.34	3.34	0.37	0.45

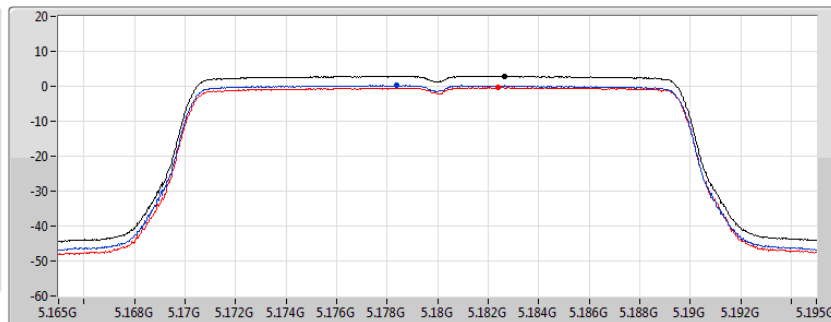
802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

16/07/2020

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



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.89	2.89	0.25	-0.33

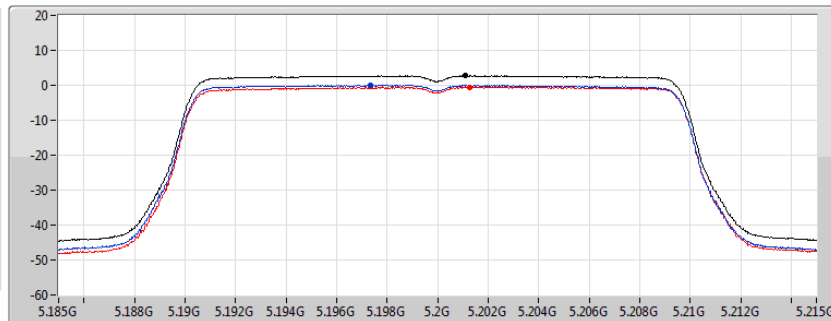
802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

16/07/2020

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



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.71	2.71	0.03	-0.53

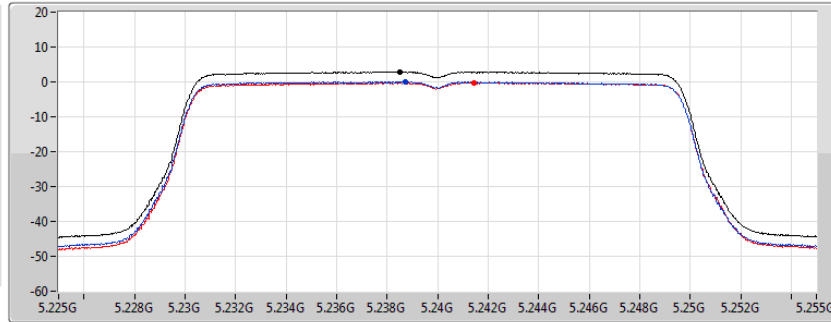
802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

16/07/2020

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



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.82	2.82	0.03	-0.24

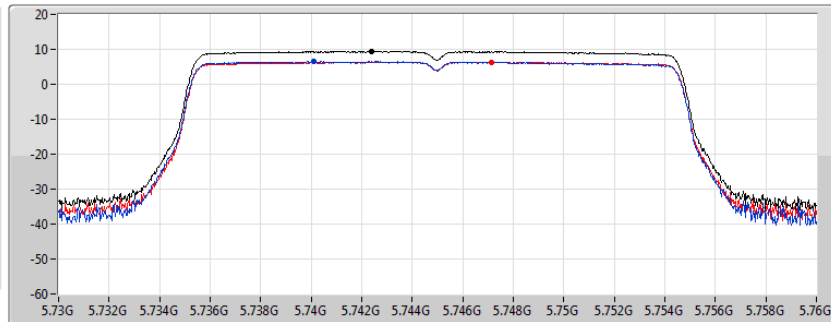
802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

16/07/2020

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.43	9.43	6.58	6.37

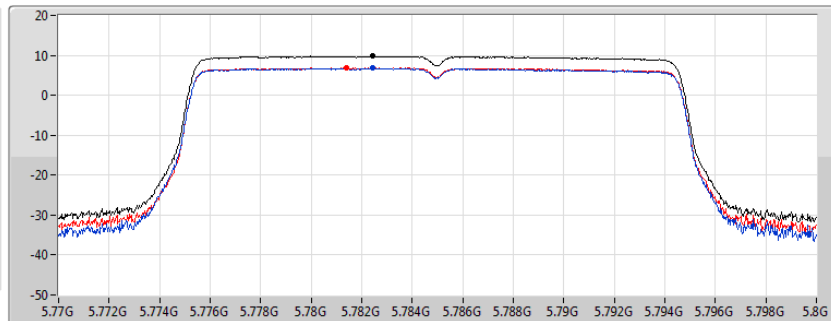
802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

16/07/2020

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.77	9.77	6.74	6.84

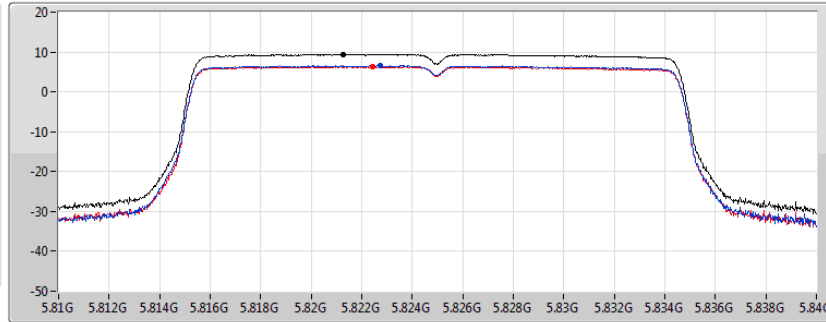
802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

16/07/2020

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.42	9.42	6.60	6.35

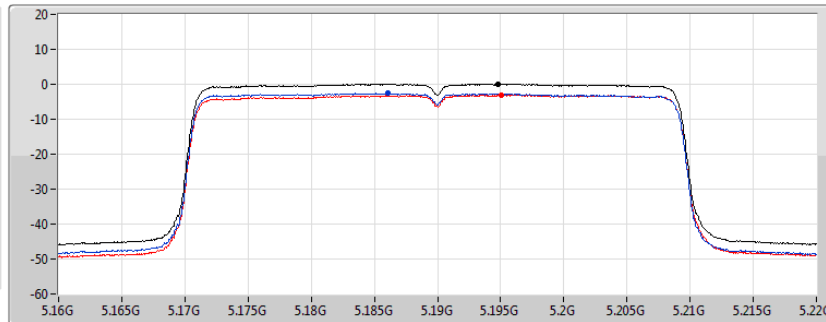
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

16/07/2020

CF
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.10	0.10	-2.62	-3.08

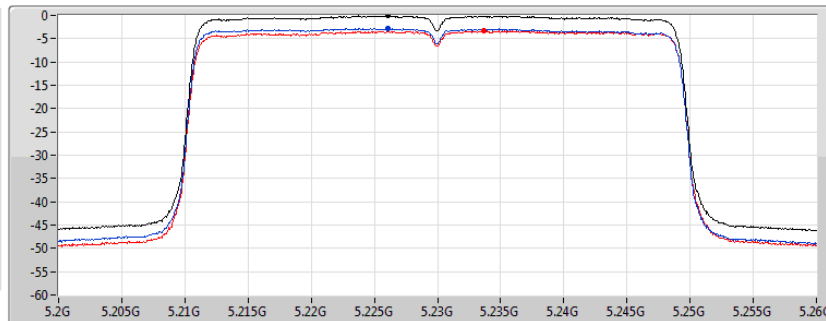
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

16/07/2020

CF
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.05	-0.05	-2.71	-3.32

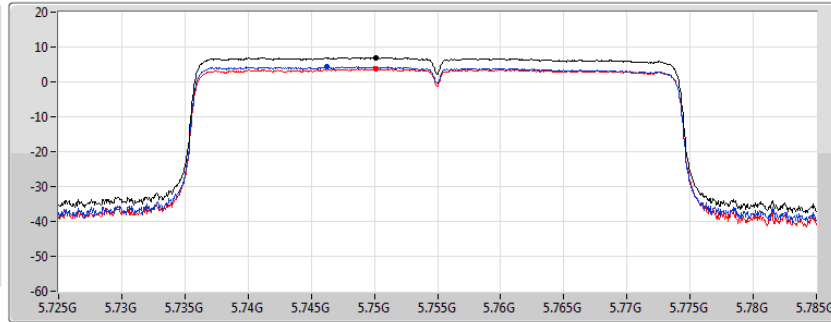
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

16/07/2020

CF
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.99	6.99	4.28	3.73

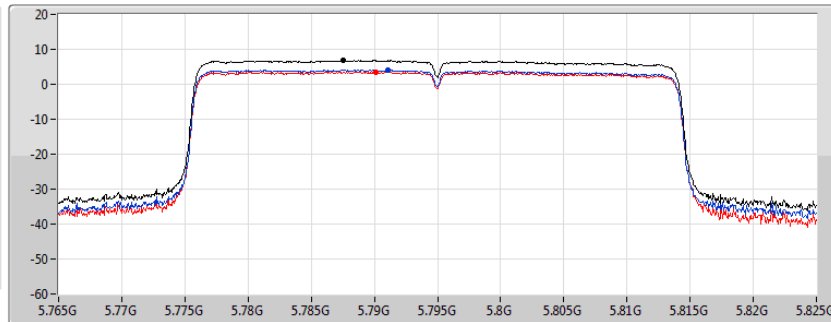
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

16/07/2020

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.78	6.78	4.15	3.50

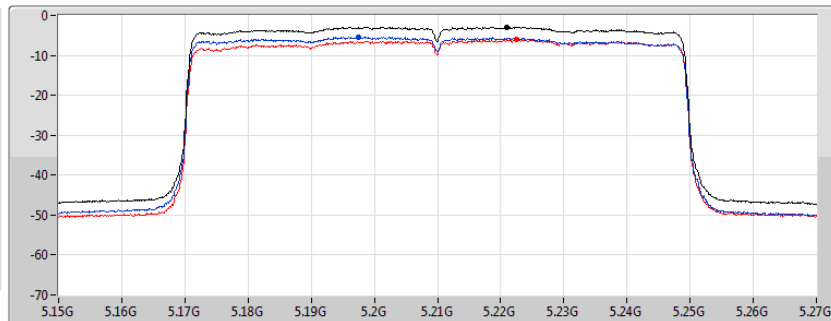
802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

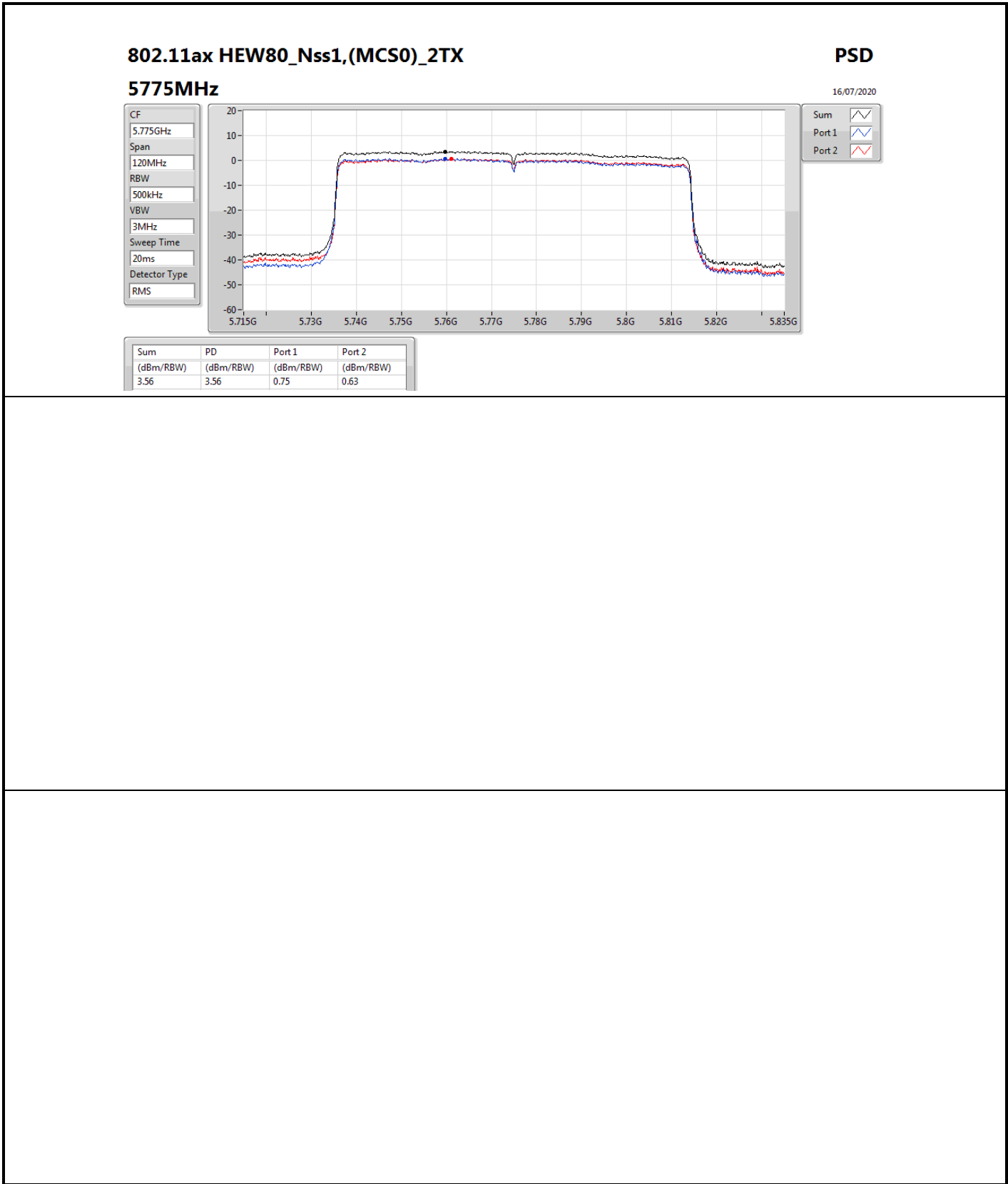
16/07/2020

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.92	-2.92	-5.34	-6.15





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	30M	35.52	40.00	-4.48	3	Vertical	360	1.00	-



Result

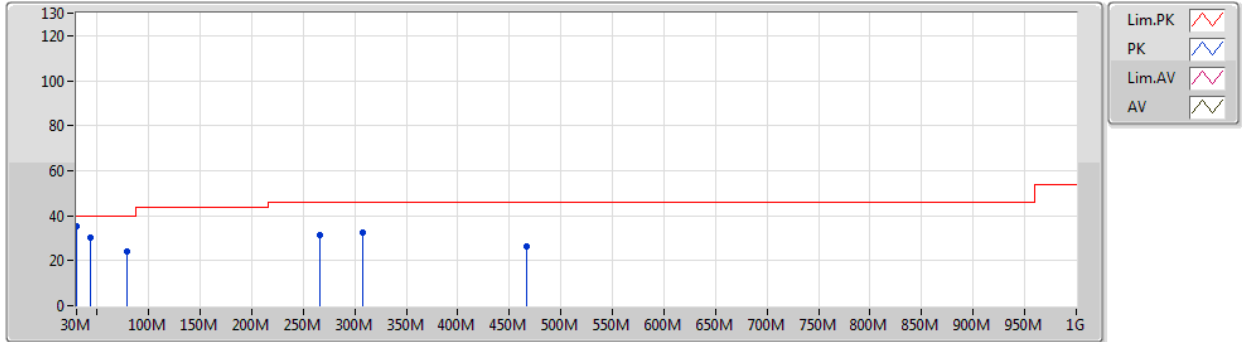
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	30M	35.52	40.00	-4.48	3	Vertical	360	1.00	-
5775MHz	Pass	PK	43.58M	30.03	40.00	-9.97	3	Vertical	360	1.00	-
5775MHz	Pass	PK	78.5M	23.89	40.00	-16.11	3	Vertical	360	1.00	-
5775MHz	Pass	PK	266.68M	31.41	46.00	-14.59	3	Vertical	360	1.00	-
5775MHz	Pass	PK	307.42M	32.52	46.00	-13.48	3	Vertical	360	1.00	-
5775MHz	Pass	PK	466.5M	26.40	46.00	-19.60	3	Vertical	360	1.00	-
5775MHz	Pass	PK	30M	24.10	40.00	-15.90	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	62.98M	28.55	40.00	-11.45	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	103.72M	26.99	43.50	-16.51	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	286.08M	39.37	46.00	-6.63	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	305.48M	33.68	46.00	-12.32	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	421.88M	30.66	46.00	-15.34	3	Horizontal	0	1.00	-



802.11ax HEW80_Nss1,(MCS0)_2TX

01/06/2020

5775MHz_PoE



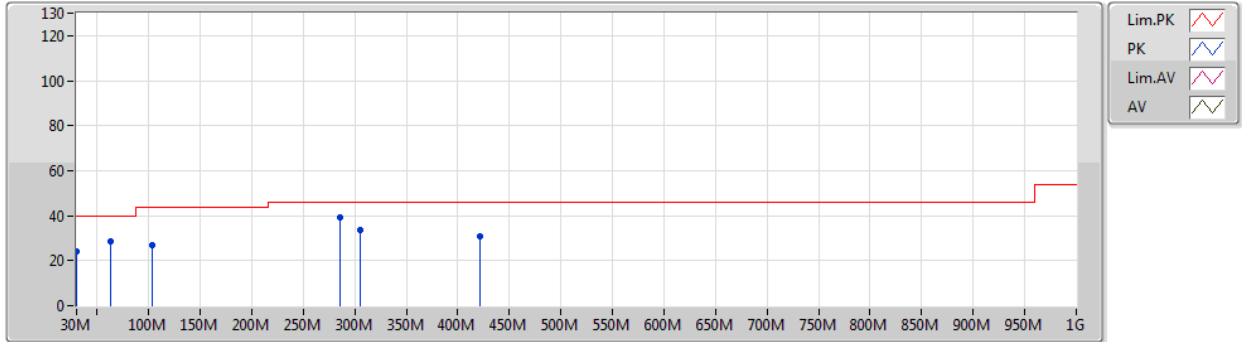
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	35.52	40.00	-4.48	-12.94	3	Vertical	360	1.00	-	48.46	23.77	0.40	37.11
PK	43.58M	30.03	40.00	-9.97	-20.09	3	Vertical	360	1.00	-	50.12	16.63	0.50	37.22
PK	78.5M	23.89	40.00	-16.11	-24.04	3	Vertical	360	1.00	-	47.93	12.21	0.70	36.95
PK	266.68M	31.41	46.00	-14.59	-16.51	3	Vertical	360	1.00	-	47.92	18.60	1.33	36.44
PK	307.42M	32.52	46.00	-13.48	-16.73	3	Vertical	360	1.00	-	49.25	18.31	1.41	36.45
PK	466.5M	26.40	46.00	-19.60	-12.48	3	Vertical	360	1.00	-	38.88	22.51	1.83	36.82



802.11ax HEW80_Nss1,(MCS0)_2TX

01/06/2020

5775MHz_PoE



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	24.10	40.00	-15.90	-12.94	3	Horizontal	0	1.00	-	37.04	23.77	0.40	37.11
PK	62.98M	28.55	40.00	-11.45	-25.64	3	Horizontal	0	1.00	-	54.19	10.82	0.60	37.06
PK	103.72M	26.99	43.50	-16.51	-20.49	3	Horizontal	0	1.00	-	47.48	15.34	0.80	36.63
PK	286.08M	39.37	46.00	-6.63	-17.07	3	Horizontal	0	1.00	-	56.44	18.03	1.37	36.47
PK	305.48M	33.68	46.00	-12.32	-16.73	3	Horizontal	0	1.00	-	50.41	18.29	1.41	36.43
PK	421.88M	30.66	46.00	-15.34	-13.16	3	Horizontal	0	1.00	-	43.82	21.80	1.74	36.70



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.0968G	53.19	54.00	-0.81	3	Horizontal	31	2.25	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	5.101G	52.99	54.00	-1.01	3	Horizontal	300	2.14	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.1496G	53.23	54.00	-0.77	3	Horizontal	292	2.23	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	5.148G	53.20	54.00	-0.80	3	Horizontal	300	1.98	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.6418G	67.15	68.20	-1.05	3	Horizontal	28	2.15	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	5.6294G	67.37	68.20	-0.83	3	Horizontal	156	2.20	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.9246G	67.63	68.50	-0.87	3	Horizontal	322	2.17	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	5.6478G	67.39	68.20	-0.81	3	Horizontal	156	2.09	-



RSE TX above 1GHz_Sample 1

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	AV	15.56586G	45.43	54.00	-8.57	3	Vertical	74	1.50	-
5190MHz	Pass	PK	10.37946G	53.24	68.20	-14.96	3	Vertical	91	1.50	-
5190MHz	Pass	PK	15.58038G	57.20	74.00	-16.80	3	Vertical	74	1.50	-
5190MHz	Pass	AV	15.56472G	45.47	54.00	-8.53	3	Horizontal	160	1.50	-
5190MHz	Pass	PK	10.38372G	54.33	68.20	-13.87	3	Horizontal	251	2.26	-
5190MHz	Pass	PK	15.57642G	57.63	74.00	-16.37	3	Horizontal	160	1.50	-
5230MHz	Pass	AV	5.1484G	51.39	54.00	-2.61	3	Vertical	242	2.29	-
5230MHz	Pass	AV	5.236G	104.50	Inf	-Inf	3	Vertical	242	2.29	-
5230MHz	Pass	AV	5.3572G	49.76	54.00	-4.24	3	Vertical	242	2.29	-
5230MHz	Pass	PK	5.1094G	62.58	74.00	-11.42	3	Vertical	242	2.29	-
5230MHz	Pass	PK	5.2354G	115.55	Inf	-Inf	3	Vertical	242	2.29	-
5230MHz	Pass	PK	5.35G	60.95	74.00	-13.05	3	Vertical	242	2.29	-
5230MHz	Pass	AV	5.1454G	52.93	54.00	-1.07	3	Horizontal	297	2.02	-
5230MHz	Pass	AV	5.2354G	106.34	Inf	-Inf	3	Horizontal	297	2.02	-
5230MHz	Pass	AV	5.3542G	50.65	54.00	-3.35	3	Horizontal	297	2.02	-
5230MHz	Pass	PK	5.1316G	64.89	74.00	-9.11	3	Horizontal	297	2.02	-
5230MHz	Pass	PK	5.2354G	118.02	Inf	-Inf	3	Horizontal	297	2.02	-
5230MHz	Pass	PK	5.3536G	62.33	74.00	-11.67	3	Horizontal	297	2.02	-
5230MHz	Pass	AV	15.665G	45.25	54.00	-8.75	3	Vertical	199	1.50	-
5230MHz	Pass	PK	10.4552G	53.58	68.20	-14.62	3	Vertical	204	1.50	-
5230MHz	Pass	PK	15.703G	56.94	74.00	-17.06	3	Vertical	199	1.50	-
5230MHz	Pass	AV	15.6752G	45.22	54.00	-8.78	3	Horizontal	20	1.13	-
5230MHz	Pass	PK	10.455G	53.43	68.20	-14.77	3	Horizontal	70	1.50	-
5230MHz	Pass	PK	15.6896G	57.76	74.00	-16.24	3	Horizontal	20	1.13	-
5755MHz	Pass	AV	5.7514G	107.53	Inf	-Inf	3	Vertical	263	2.14	-
5755MHz	Pass	PK	5.6506G	64.47	68.64	-4.17	3	Vertical	263	2.14	-
5755MHz	Pass	PK	5.7598G	117.90	Inf	-Inf	3	Vertical	263	2.14	-
5755MHz	Pass	PK	5.9662G	60.50	68.20	-7.70	3	Vertical	263	2.14	-
5755MHz	Pass	AV	5.749G	107.31	Inf	-Inf	3	Horizontal	324	2.06	-
5755MHz	Pass	PK	5.6434G	67.11	68.20	-1.09	3	Horizontal	324	2.06	-
5755MHz	Pass	PK	5.7514G	118.83	Inf	-Inf	3	Horizontal	324	2.06	-
5755MHz	Pass	PK	5.929G	61.89	68.20	-6.31	3	Horizontal	324	2.06	-
5755MHz	Pass	AV	11.4964G	42.75	54.00	-11.25	3	Vertical	318	1.50	-
5755MHz	Pass	PK	11.5094G	54.67	74.00	-19.33	3	Vertical	318	1.50	-
5755MHz	Pass	PK	17.2578G	62.95	68.20	-5.25	3	Vertical	113	1.50	-
5755MHz	Pass	AV	11.523G	42.76	54.00	-11.24	3	Horizontal	87	1.50	-
5755MHz	Pass	PK	11.4859G	54.94	74.00	-19.06	3	Horizontal	87	1.50	-
5755MHz	Pass	PK	17.2855G	62.71	68.20	-5.49	3	Horizontal	339	1.50	-
5795MHz	Pass	AV	5.7962G	109.09	Inf	-Inf	3	Vertical	262	2.15	-
5795MHz	Pass	PK	5.627G	63.34	68.20	-4.86	3	Vertical	262	2.15	-
5795MHz	Pass	PK	5.7914G	120.49	Inf	-Inf	3	Vertical	262	2.15	-
5795MHz	Pass	PK	5.9258G	65.22	68.20	-2.98	3	Vertical	262	2.15	-
5795MHz	Pass	AV	5.7902G	108.89	Inf	-Inf	3	Horizontal	322	2.17	-
5795MHz	Pass	PK	5.6498G	65.48	68.20	-2.72	3	Horizontal	322	2.17	-
5795MHz	Pass	PK	5.7914G	119.90	Inf	-Inf	3	Horizontal	322	2.17	-
5795MHz	Pass	PK	5.9246G	67.63	68.50	-0.87	3	Horizontal	322	2.17	-
5795MHz	Pass	AV	11.58082G	43.52	54.00	-10.48	3	Vertical	77	2.42	-
5795MHz	Pass	PK	11.5804G	54.71	74.00	-19.29	3	Vertical	77	2.42	-
5795MHz	Pass	PK	17.37318G	63.75	68.20	-4.45	3	Vertical	295	1.50	-



RSE TX above 1GHz_Sample 1

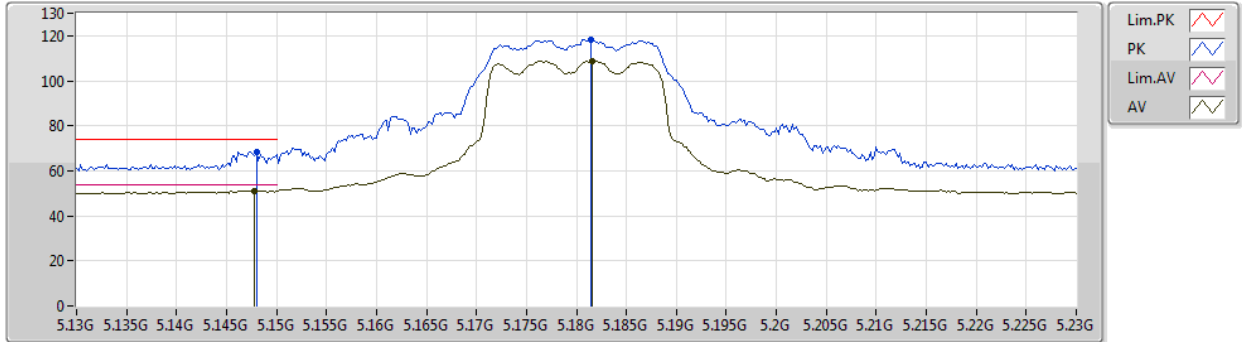
Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	AV	11.58016G	42.99	54.00	-11.01	3	Horizontal	333	1.50	-
5795MHz	Pass	PK	11.58214G	54.89	74.00	-19.11	3	Horizontal	333	1.50	-
5795MHz	Pass	PK	17.38308G	63.10	68.20	-5.10	3	Horizontal	63	1.50	-
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.15G	51.87	54.00	-2.13	3	Vertical	274	2.14	-
5210MHz	Pass	AV	5.199G	97.45	Inf	-Inf	3	Vertical	274	2.14	-
5210MHz	Pass	AV	5.35G	49.52	54.00	-4.48	3	Vertical	274	2.14	-
5210MHz	Pass	PK	5.148G	63.68	74.00	-10.32	3	Vertical	274	2.14	-
5210MHz	Pass	PK	5.192G	108.66	Inf	-Inf	3	Vertical	274	2.14	-
5210MHz	Pass	PK	5.352G	61.53	74.00	-12.47	3	Vertical	274	2.14	-
5210MHz	Pass	AV	5.148G	53.20	54.00	-0.80	3	Horizontal	300	1.98	-
5210MHz	Pass	AV	5.195G	99.26	Inf	-Inf	3	Horizontal	300	1.98	-
5210MHz	Pass	AV	5.35G	50.05	54.00	-3.95	3	Horizontal	300	1.98	-
5210MHz	Pass	PK	5.145G	65.91	74.00	-8.09	3	Horizontal	300	1.98	-
5210MHz	Pass	PK	5.213G	110.91	Inf	-Inf	3	Horizontal	300	1.98	-
5210MHz	Pass	PK	5.356G	61.93	74.00	-12.07	3	Horizontal	300	1.98	-
5210MHz	Pass	AV	15.6225G	45.51	54.00	-8.49	3	Vertical	37	1.05	-
5210MHz	Pass	PK	10.42006G	53.37	68.20	-14.83	3	Vertical	180	1.50	-
5210MHz	Pass	PK	15.61806G	57.69	74.00	-16.31	3	Vertical	37	1.05	-
5210MHz	Pass	AV	15.61854G	45.35	54.00	-8.65	3	Horizontal	176	1.50	-
5210MHz	Pass	PK	10.4122G	53.40	68.20	-14.80	3	Horizontal	176	2.58	-
5210MHz	Pass	PK	15.61698G	57.24	74.00	-16.76	3	Horizontal	176	1.50	-
5775MHz	Pass	AV	5.7606G	101.46	Inf	-Inf	3	Vertical	30	2.16	-
5775MHz	Pass	PK	5.631G	63.97	68.20	-4.23	3	Vertical	30	2.16	-
5775MHz	Pass	PK	5.763G	112.65	Inf	-Inf	3	Vertical	30	2.16	-
5775MHz	Pass	PK	5.925G	61.39	68.20	-6.81	3	Vertical	30	2.16	-
5775MHz	Pass	AV	5.7606G	101.12	Inf	-Inf	3	Horizontal	156	2.09	-
5775MHz	Pass	PK	5.6478G	67.39	68.20	-0.81	3	Horizontal	156	2.09	-
5775MHz	Pass	PK	5.745G	112.61	Inf	-Inf	3	Horizontal	156	2.09	-
5775MHz	Pass	PK	5.9346G	62.30	68.20	-5.90	3	Horizontal	156	2.09	-
5775MHz	Pass	AV	11.56398G	42.92	54.00	-11.08	3	Vertical	120	1.50	-
5775MHz	Pass	PK	11.55186G	54.65	74.00	-19.35	3	Vertical	120	1.50	-
5775MHz	Pass	PK	17.33784G	62.67	68.20	-5.53	3	Vertical	170	1.50	-
5775MHz	Pass	AV	11.565G	42.76	54.00	-11.24	3	Horizontal	22	1.50	-
5775MHz	Pass	PK	11.5605G	54.82	74.00	-19.18	3	Horizontal	22	1.50	-
5775MHz	Pass	PK	17.32146G	63.20	68.20	-5.00	3	Horizontal	328	1.33	-

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5180MHz_TX

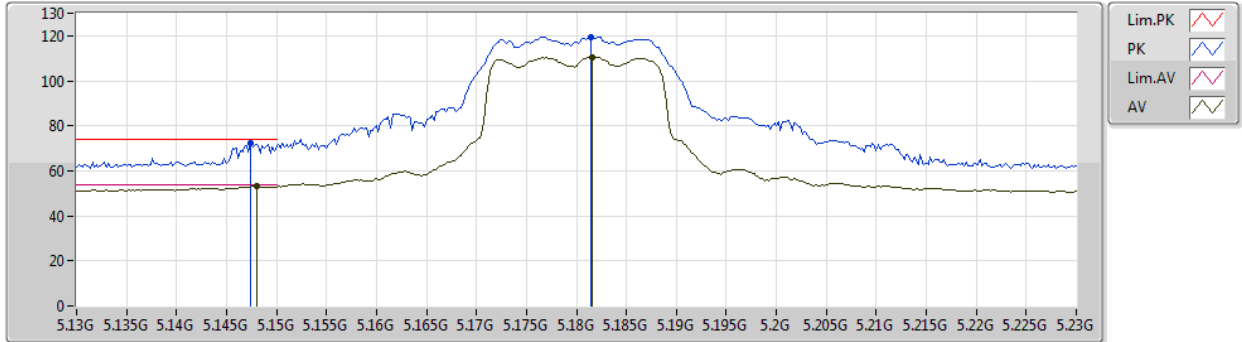


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1478G	51.21	54.00	-2.79	7.72	3	Vertical	334	2.21	-	43.49	34.20	7.57	34.05
AV	5.1816G	108.85	Inf	-Inf	7.74	3	Vertical	334	2.21	-	101.11	34.20	7.59	34.05
PK	5.148G	68.45	74.00	-5.55	7.72	3	Vertical	334	2.21	-	60.73	34.20	7.57	34.05
PK	5.1814G	118.18	Inf	-Inf	7.74	3	Vertical	334	2.21	-	110.44	34.20	7.59	34.05

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5180MHz_TX

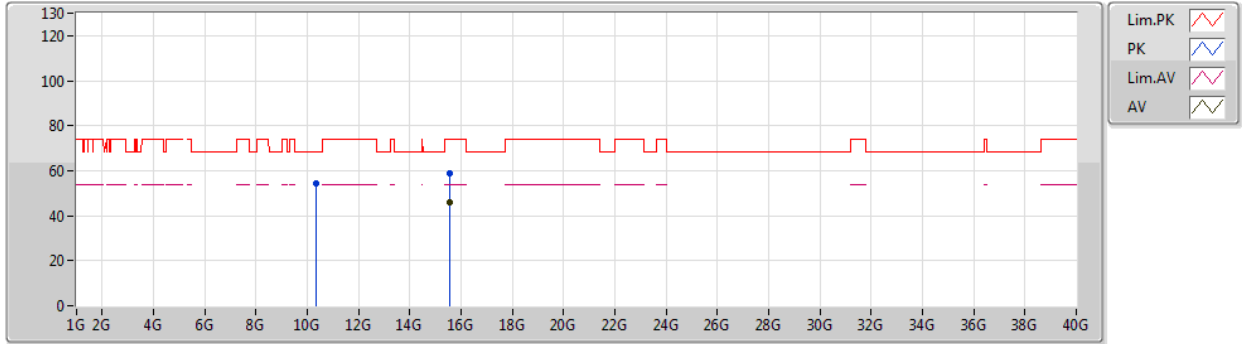


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.148G	53.06	54.00	-0.94	7.72	3	Horizontal	31	2.22	-	45.34	34.20	7.57	34.05
AV	5.1816G	110.50	Inf	-Inf	7.74	3	Horizontal	31	2.22	-	102.76	34.20	7.59	34.05
PK	5.1474G	72.18	74.00	-1.82	7.72	3	Horizontal	31	2.22	-	64.46	34.20	7.57	34.05
PK	5.1814G	119.58	Inf	-Inf	7.74	3	Horizontal	31	2.22	-	111.84	34.20	7.59	34.05

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5180MHz_TX

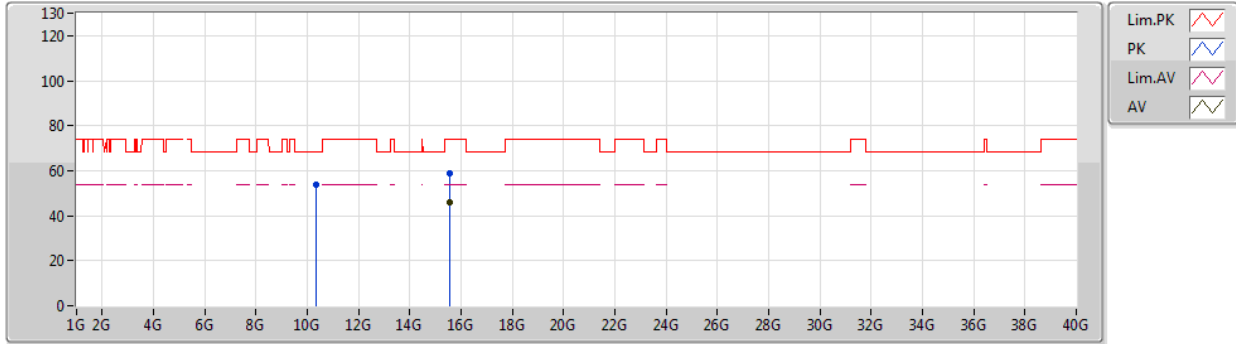


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.53808G	46.04	54.00	-7.96	12.61	3	Vertical	188	2.44	-	33.43	43.71	10.91	42.01
PK	10.35896G	54.48	68.20	-13.72	5.72	3	Vertical	122	1.50	-	48.76	39.15	9.69	43.12
PK	15.53476G	58.79	74.00	-15.21	12.62	3	Vertical	188	2.44	-	46.17	43.72	10.91	42.01

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5180MHz_TX

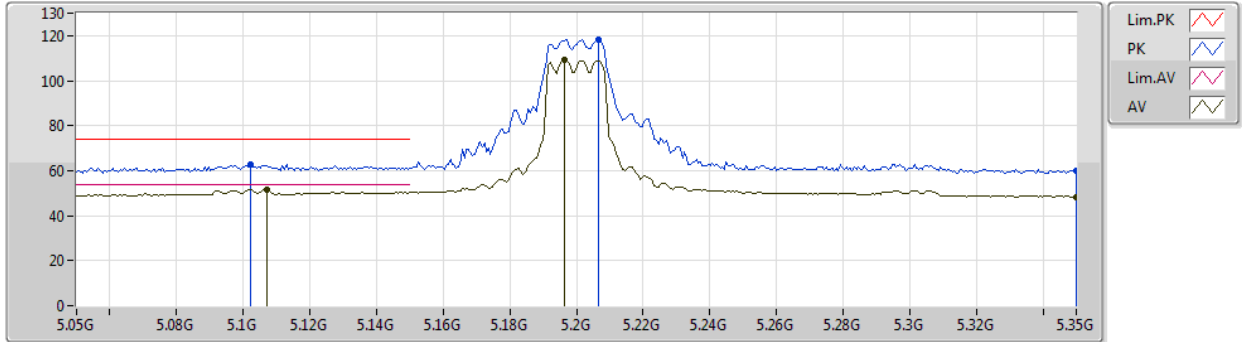


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.53476G	45.86	54.00	-8.14	12.62	3	Horizontal	186	2.32	-	33.24	43.72	10.91	42.01
PK	10.35916G	53.98	68.20	-14.22	5.72	3	Horizontal	299	1.50	-	48.26	39.15	9.69	43.12
PK	15.5496G	58.82	74.00	-15.18	12.57	3	Horizontal	186	2.32	-	46.25	43.68	10.91	42.02

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5200MHz_TX

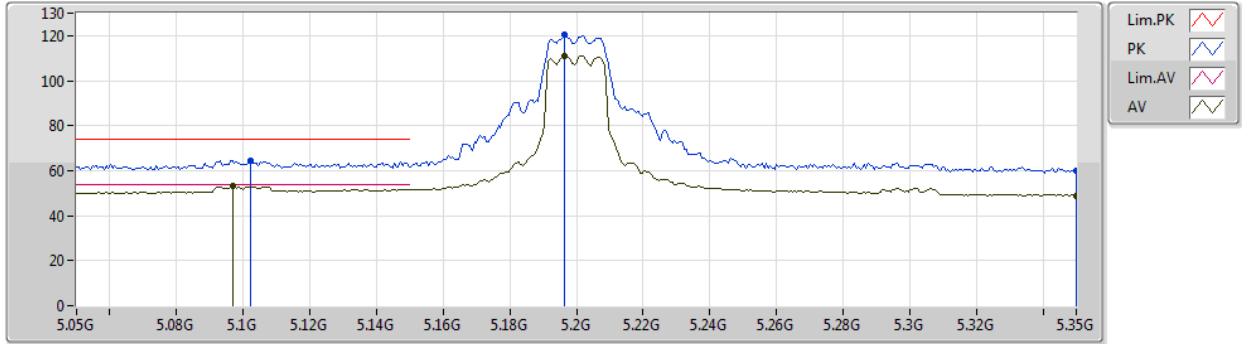


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.107G	51.59	54.00	-2.41	7.70	3	Vertical	333	2.17	-	43.89	34.20	7.55	34.05
AV	5.1964G	109.24	Inf	-Inf	7.75	3	Vertical	333	2.17	-	101.49	34.20	7.60	34.05
AV	5.35G	48.41	54.00	-5.59	7.91	3	Vertical	333	2.17	-	40.50	34.30	7.67	34.06
PK	5.1022G	62.81	74.00	-11.19	7.70	3	Vertical	333	2.17	-	55.11	34.20	7.55	34.05
PK	5.2066G	118.21	Inf	-Inf	7.76	3	Vertical	333	2.17	-	110.45	34.21	7.60	34.05
PK	5.35G	60.13	74.00	-13.87	7.91	3	Vertical	333	2.17	-	52.22	34.30	7.67	34.06

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5200MHz_TX



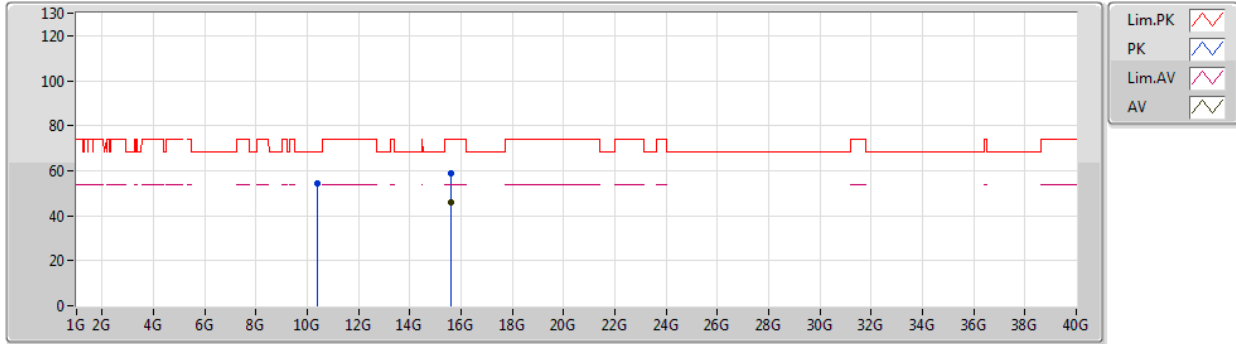
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AV	5.0968G	53.19	54.00	-0.81	7.69	3	Horizontal	31	2.25	-	45.50	34.19	7.55	34.05
AV	5.1964G	111.12	Inf	-Inf	7.75	3	Horizontal	31	2.25	-	103.37	34.20	7.60	34.05
AV	5.35G	48.94	54.00	-5.06	7.91	3	Horizontal	31	2.25	-	41.03	34.30	7.67	34.06
PK	5.1022G	64.56	74.00	-9.44	7.70	3	Horizontal	31	2.25	-	56.86	34.20	7.55	34.05
PK	5.1964G	120.41	Inf	-Inf	7.75	3	Horizontal	31	2.25	-	112.66	34.20	7.60	34.05
PK	5.35G	59.85	74.00	-14.15	7.91	3	Horizontal	31	2.25	-	51.94	34.30	7.67	34.06



802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5200MHz_TX



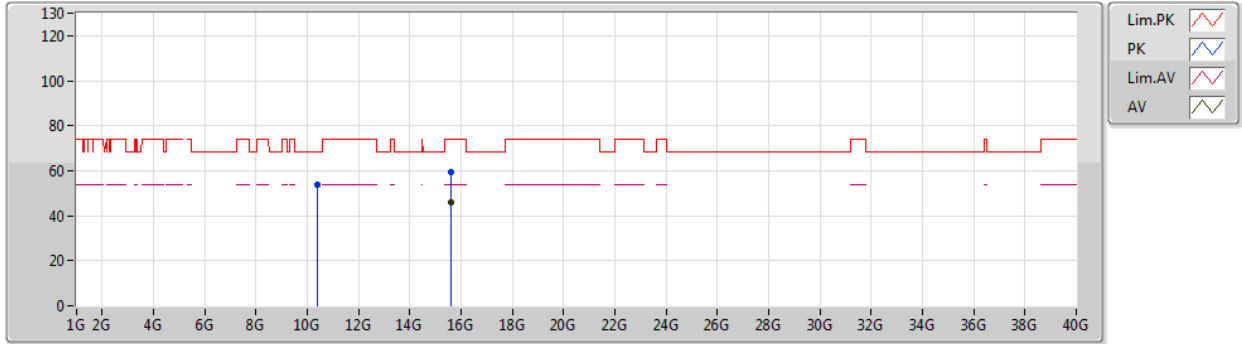
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AV	15.5934G	46.09	54.00	-7.91	12.46	3	Vertical	173	1.49	-	33.63	43.58	10.92	42.04
PK	10.39856G	54.49	68.20	-13.71	5.75	3	Vertical	94	1.50	-	48.74	39.18	9.70	43.13
PK	15.59548G	58.79	74.00	-15.21	12.44	3	Vertical	173	1.49	-	46.35	43.57	10.92	42.05



802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5200MHz_TX

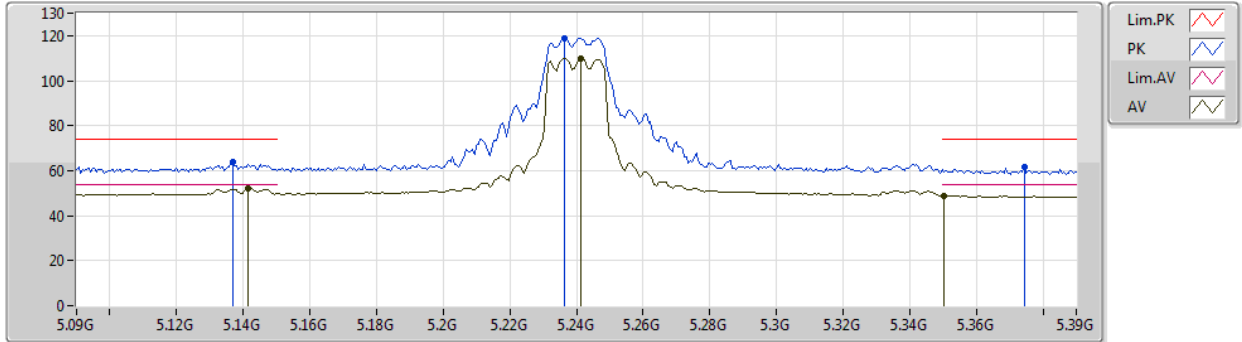


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.6068G	46.05	54.00	-7.95	12.41	3	Horizontal	164	1.00	-	33.64	43.54	10.92	42.05
PK	10.3972G	53.98	68.20	-14.22	5.75	3	Horizontal	15	1.48	-	48.23	39.18	9.70	43.13
PK	15.60716G	59.21	74.00	-14.79	12.41	3	Horizontal	164	1.00	-	46.80	43.54	10.92	42.05

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5240MHz_TX

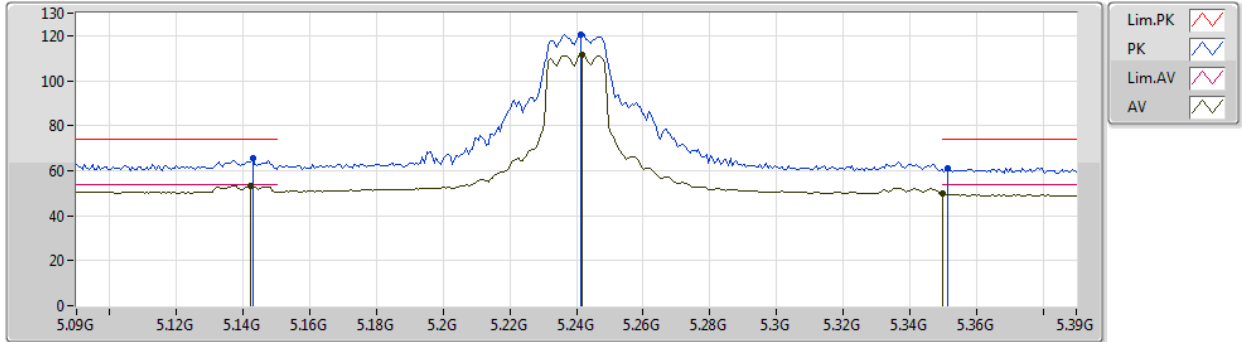


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1416G	51.93	54.00	-2.07	7.72	3	Vertical	332	2.17	-	44.21	34.20	7.57	34.05
AV	5.2412G	109.85	Inf	-Inf	7.85	3	Vertical	332	2.17	-	102.00	34.28	7.62	34.05
AV	5.3504G	48.95	54.00	-5.05	7.92	3	Vertical	332	2.17	-	41.03	34.30	7.68	34.06
PK	5.1368G	63.85	74.00	-10.15	7.72	3	Vertical	332	2.17	-	56.13	34.20	7.57	34.05
PK	5.2364G	119.03	Inf	-Inf	7.84	3	Vertical	332	2.17	-	111.19	34.27	7.62	34.05
PK	5.3744G	61.79	74.00	-12.21	7.88	3	Vertical	332	2.17	-	53.91	34.25	7.69	34.06

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5240MHz_TX



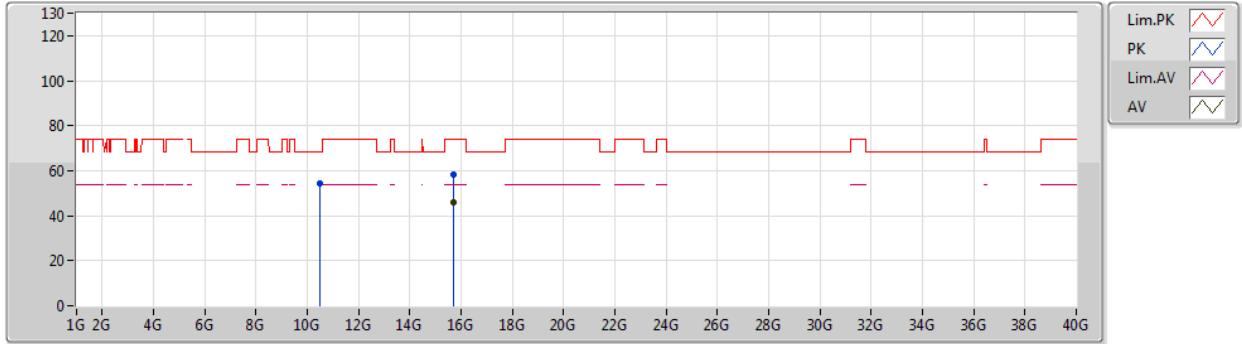
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AV	5.1422G	53.12	54.00	-0.88	7.72	3	Horizontal	31	2.23	-	45.40	34.20	7.57	34.05
AV	5.2418G	111.61	Inf	-Inf	7.85	3	Horizontal	31	2.23	-	103.76	34.28	7.62	34.05
AV	5.35G	49.64	54.00	-4.36	7.92	3	Horizontal	31	2.23	-	41.72	34.30	7.68	34.06
PK	5.1428G	65.43	74.00	-8.57	7.72	3	Horizontal	31	2.23	-	57.71	34.20	7.57	34.05
PK	5.2412G	120.44	Inf	-Inf	7.85	3	Horizontal	31	2.23	-	112.59	34.28	7.62	34.05
PK	5.3516G	61.15	74.00	-12.85	7.92	3	Horizontal	31	2.23	-	53.23	34.30	7.68	34.06



802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5240MHz_TX



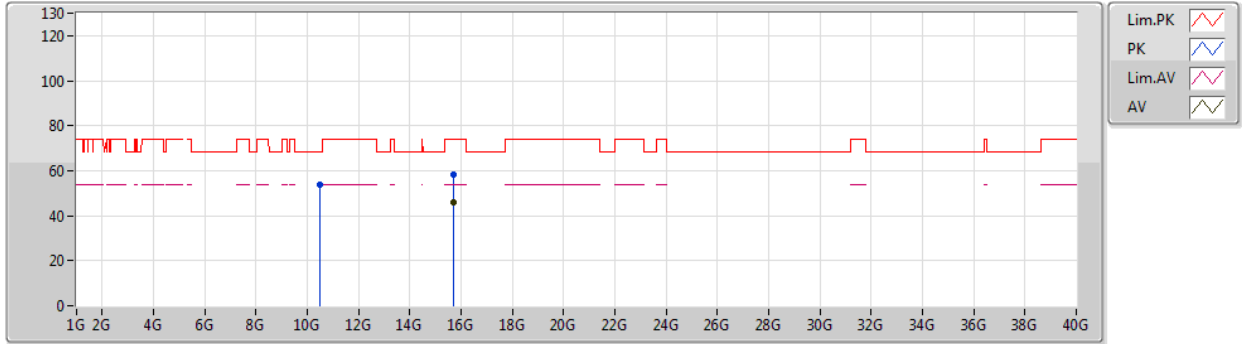
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AV	15.72752G	45.86	54.00	-8.14	12.08	3	Vertical	129	1.37	-	33.78	43.25	10.95	42.12
PK	10.47016G	54.45	68.20	-13.75	5.80	3	Vertical	317	1.50	-	48.65	39.23	9.72	43.15
PK	15.71468G	58.29	74.00	-15.71	12.11	3	Vertical	129	1.37	-	46.18	43.28	10.94	42.11



802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5240MHz_TX

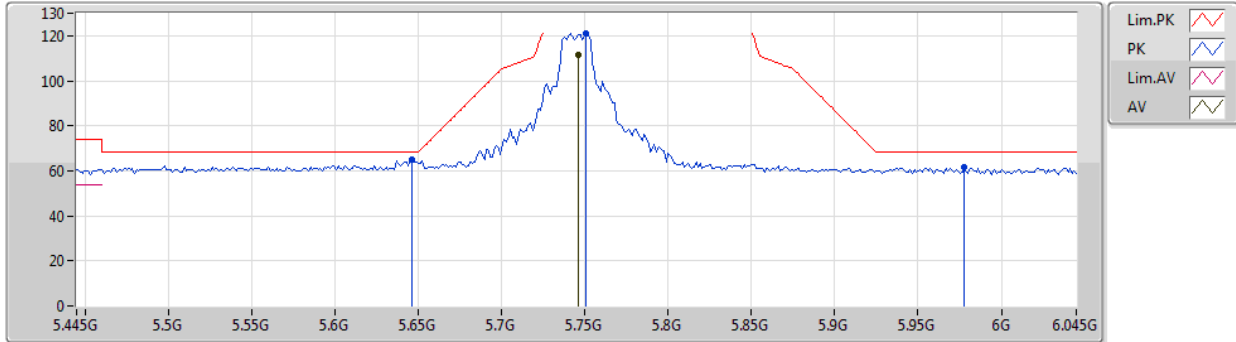


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.72236G	45.76	54.00	-8.24	12.09	3	Horizontal	162	2.32	-	33.67	43.27	10.94	42.12
PK	10.47512G	54.02	68.20	-14.18	5.80	3	Horizontal	10	1.37	-	48.22	39.23	9.72	43.15
PK	15.729G	58.39	74.00	-15.61	12.08	3	Horizontal	162	2.32	-	46.31	43.25	10.95	42.12

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5745MHz_TX

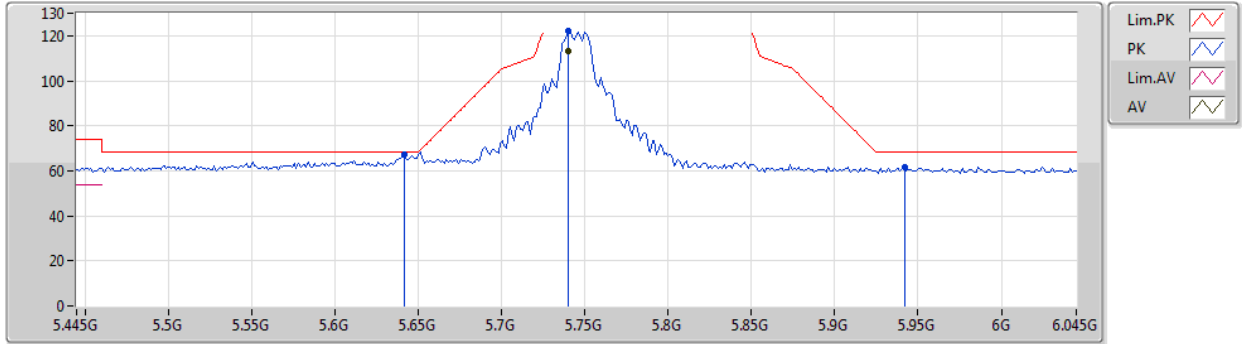


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7462G	111.60	Inf	-Inf	7.79	3	Vertical	0	2.14	-	103.81	33.99	7.87	34.07
PK	5.6466G	65.09	68.20	-3.11	7.76	3	Vertical	0	2.14	-	57.33	34.01	7.82	34.07
PK	5.751G	121.02	Inf	-Inf	7.80	3	Vertical	0	2.14	-	113.22	34.00	7.88	34.08
PK	5.9778G	61.38	68.20	-6.82	8.67	3	Vertical	0	2.14	-	52.71	34.76	7.99	34.08

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5745MHz_TX



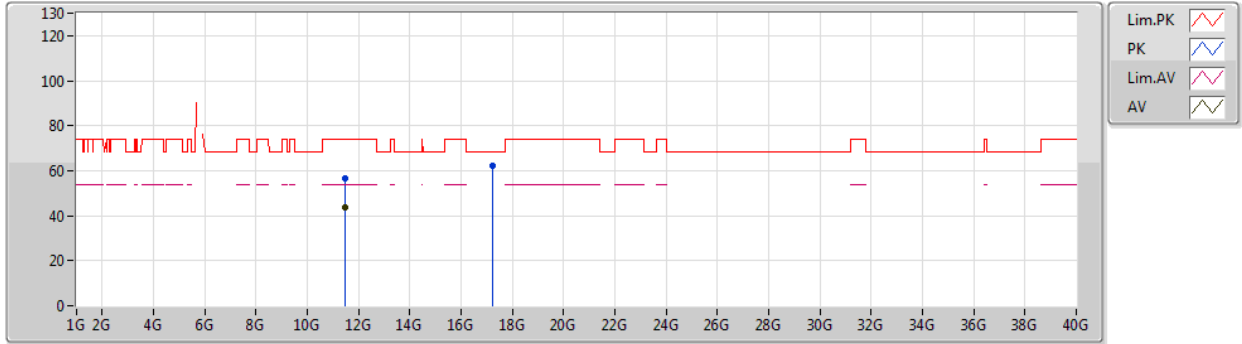
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7402G	113.16	Inf	-Inf	7.78	3	Horizontal	28	2.15	-	105.38	33.98	7.87	34.07
PK	5.6418G	67.15	68.20	-1.05	7.77	3	Horizontal	28	2.15	-	59.38	34.02	7.82	34.07
PK	5.7402G	122.00	Inf	-Inf	7.78	3	Horizontal	28	2.15	-	114.22	33.98	7.87	34.07
PK	5.9418G	61.77	68.20	-6.43	8.57	3	Horizontal	28	2.15	-	53.20	34.68	7.97	34.08



802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5745MHz_TX

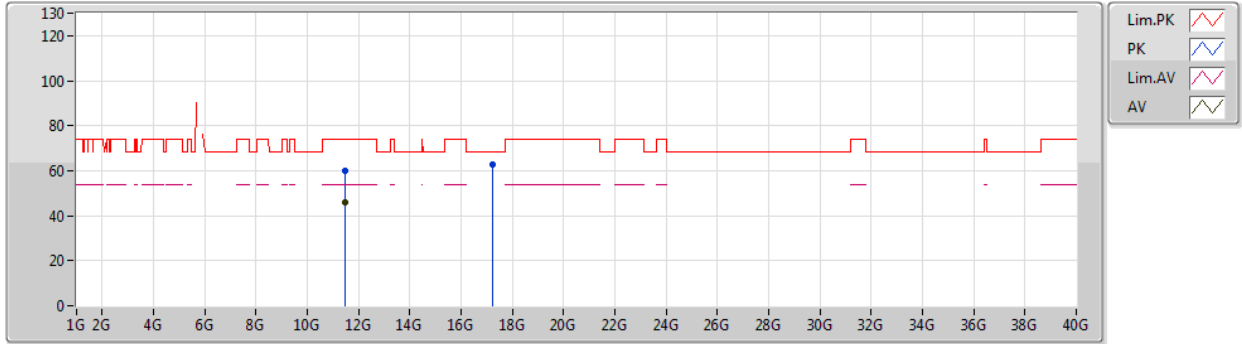


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.4921G	43.94	54.00	-10.06	7.93	3	Vertical	145	1.90	-	36.01	40.58	9.97	42.62
PK	11.49246G	56.41	74.00	-17.59	7.93	3	Vertical	145	1.90	-	48.48	40.58	9.97	42.62
PK	17.23358G	62.44	68.20	-5.76	17.03	3	Vertical	192	2.02	-	45.41	46.14	11.56	40.67

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5745MHz_TX

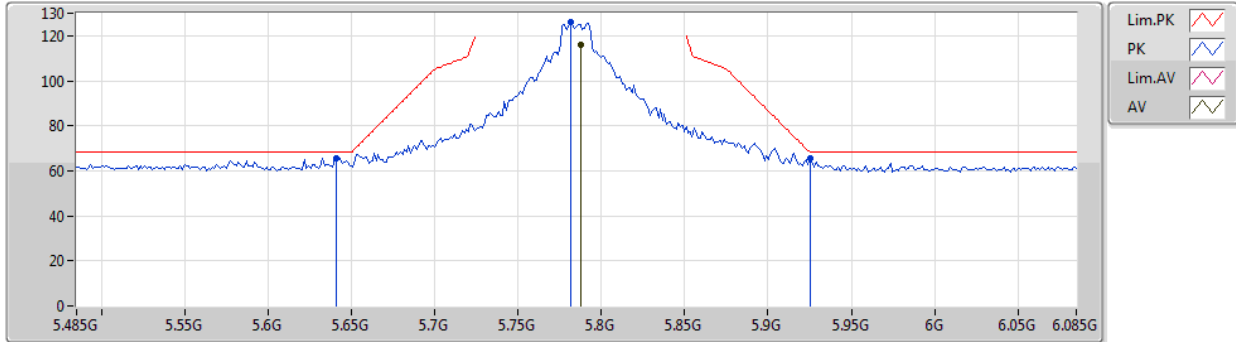


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.49134G	46.01	54.00	-7.99	7.93	3	Horizontal	135	1.46	-	38.08	40.58	9.97	42.62
PK	11.49102G	60.02	74.00	-13.98	7.93	3	Horizontal	135	1.46	-	52.09	40.58	9.97	42.62
PK	17.23882G	62.73	68.20	-5.47	17.07	3	Horizontal	344	2.06	-	45.66	46.18	11.56	40.67

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5785MHz_TX

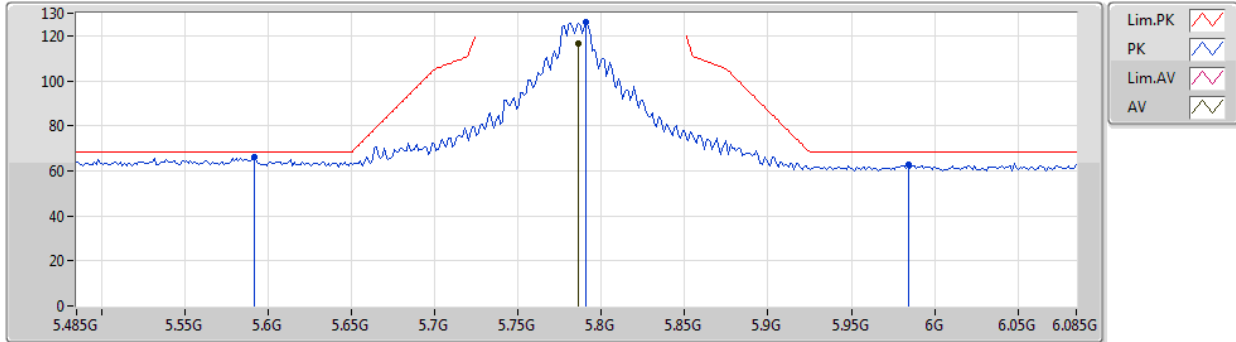


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7874G	115.88	Inf	-Inf	7.88	3	Vertical	124	2.10	-	108.00	34.07	7.89	34.08
PK	5.641G	65.78	68.20	-2.42	7.77	3	Vertical	124	2.10	-	58.01	34.02	7.82	34.07
PK	5.7814G	125.86	Inf	-Inf	7.87	3	Vertical	124	2.10	-	117.99	34.06	7.89	34.08
PK	5.9254G	65.29	68.20	-2.91	8.53	3	Vertical	124	2.10	-	56.76	34.65	7.96	34.08

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5785MHz_TX



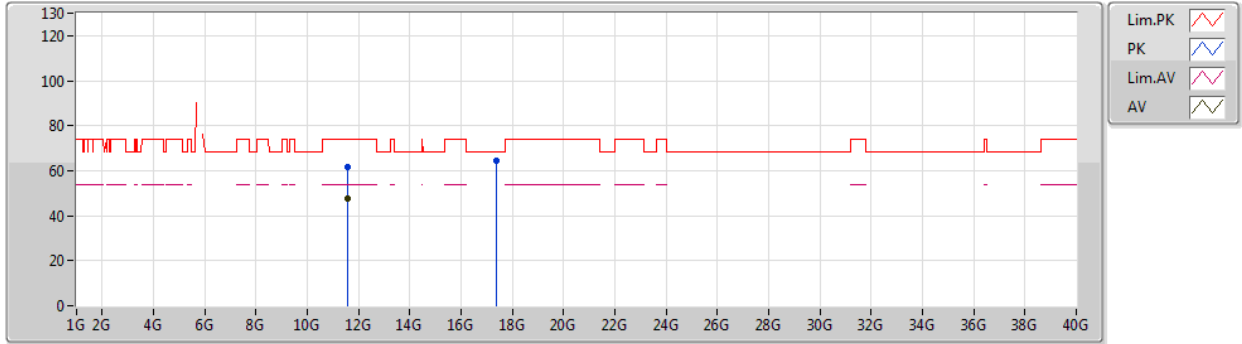
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AV	5.7862G	116.35	Inf	-Inf	7.88	3	Horizontal	30	2.17	-	108.47	34.07	7.89	34.08
PK	5.5918G	65.86	68.20	-2.34	7.84	3	Horizontal	30	2.17	-	58.02	34.11	7.80	34.07
PK	5.791G	126.08	Inf	-Inf	7.90	3	Horizontal	30	2.17	-	118.18	34.08	7.90	34.08
PK	5.9842G	62.75	68.20	-5.45	8.68	3	Horizontal	30	2.17	-	54.07	34.77	7.99	34.08



802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5785MHz_TX

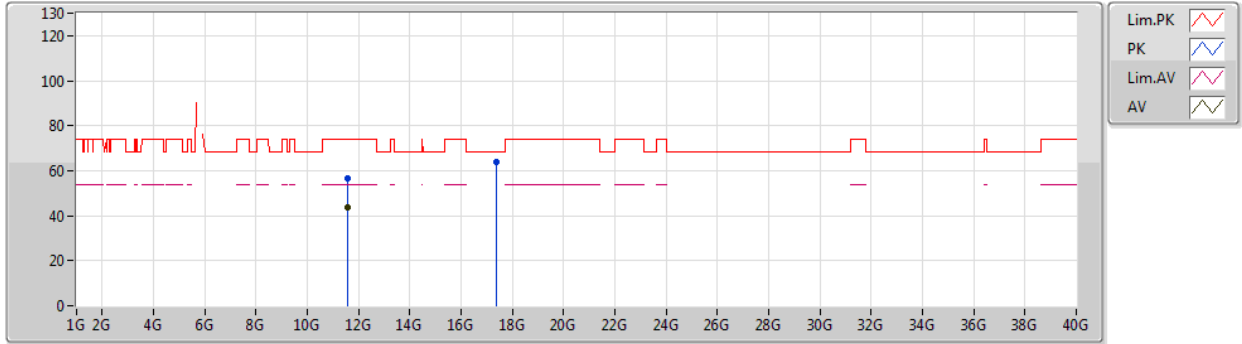


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.56786G	47.51	54.00	-6.49	8.14	3	Vertical	262	1.92	-	39.37	40.74	9.99	42.59
PK	11.56762G	61.77	74.00	-12.23	8.14	3	Vertical	262	1.92	-	53.63	40.74	9.99	42.59
PK	17.35808G	64.38	68.20	-3.82	18.02	3	Vertical	110	1.22	-	46.36	46.96	11.61	40.55

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5785MHz_TX

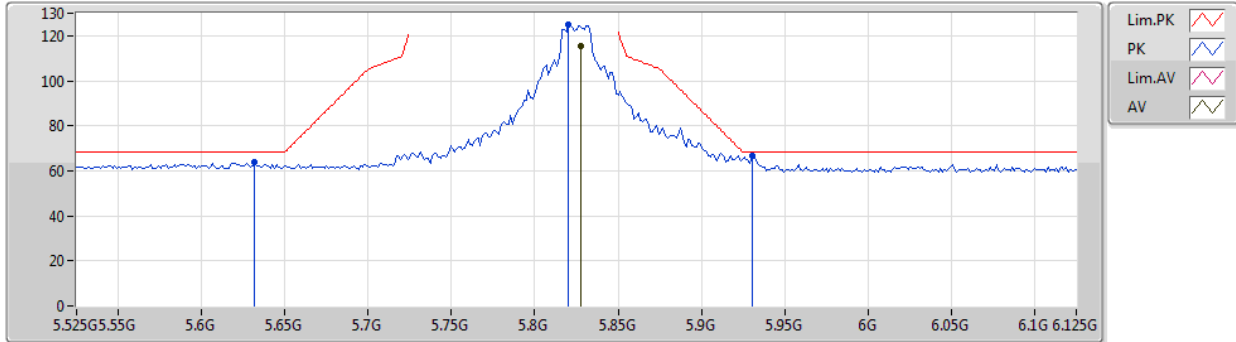


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.56716G	43.82	54.00	-10.18	8.13	3	Horizontal	146	1.72	-	35.69	40.73	9.99	42.59
PK	11.56672G	56.83	74.00	-17.17	8.13	3	Horizontal	146	1.72	-	48.70	40.73	9.99	42.59
PK	17.35438G	64.07	68.20	-4.13	17.99	3	Horizontal	110	2.19	-	46.08	46.94	11.61	40.56

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5825MHz_TX

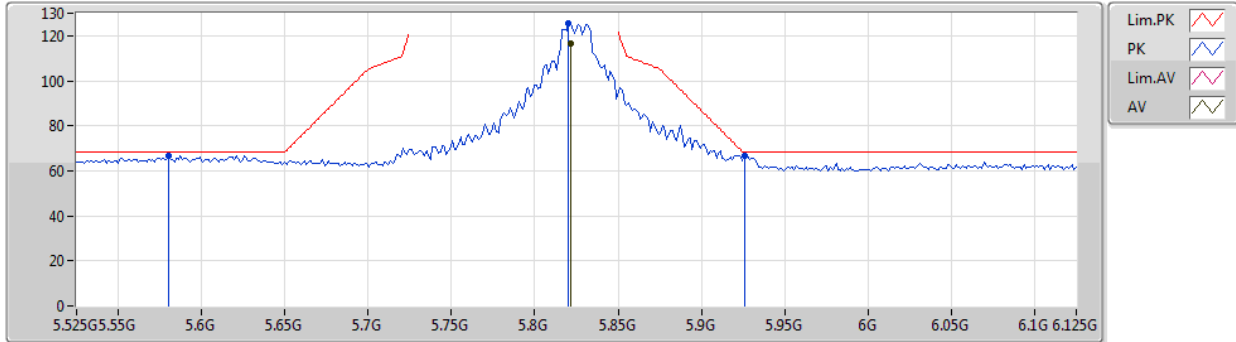


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8274G	115.26	Inf	-Inf	8.07	3	Vertical	122	2.20	-	107.19	34.24	7.91	34.08
PK	5.6318G	63.64	68.20	-4.56	7.79	3	Vertical	122	2.20	-	55.85	34.04	7.82	34.07
PK	5.8202G	124.83	Inf	-Inf	8.03	3	Vertical	122	2.20	-	116.80	34.20	7.91	34.08
PK	5.9306G	66.75	68.20	-1.45	8.55	3	Vertical	122	2.20	-	58.20	34.66	7.97	34.08

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5825MHz_TX

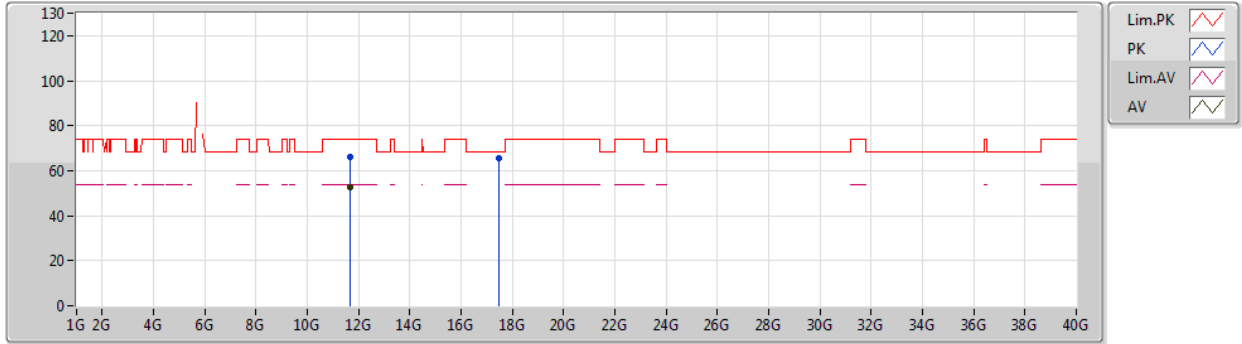


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8214G	116.42	Inf	-Inf	8.04	3	Horizontal	28	2.15	-	108.38	34.21	7.91	34.08
PK	5.5802G	66.93	68.20	-1.27	7.84	3	Horizontal	28	2.15	-	59.09	34.12	7.79	34.07
PK	5.8202G	125.35	Inf	-Inf	8.03	3	Horizontal	28	2.15	-	117.32	34.20	7.91	34.08
PK	5.9258G	66.48	68.20	-1.72	8.53	3	Horizontal	28	2.15	-	57.95	34.65	7.96	34.08

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5825MHz_TX

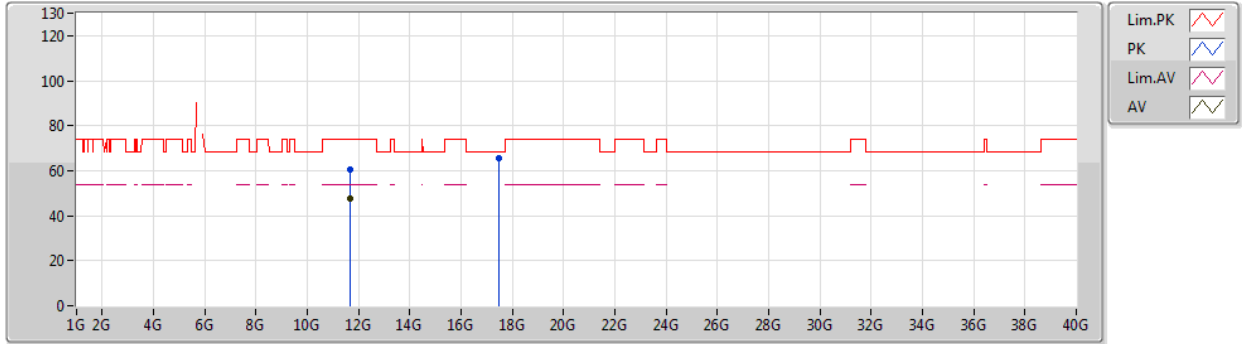


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65088G	52.88	54.00	-1.12	8.37	3	Vertical	192	1.42	-	44.51	40.90	10.01	42.54
PK	11.651G	65.91	74.00	-8.09	8.37	3	Vertical	192	1.42	-	57.54	40.90	10.01	42.54
PK	17.47036G	65.80	68.20	-2.40	18.91	3	Vertical	273	1.03	-	46.89	47.70	11.66	40.45

802.11a_Nss1,(6Mbps)_2TX

29/05/2020

5825MHz_TX

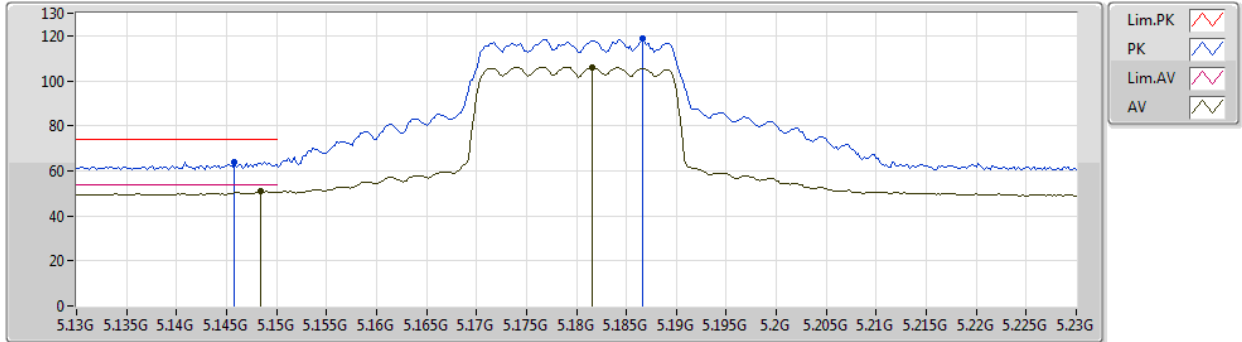


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65084G	47.61	54.00	-6.39	8.37	3	Horizontal	66	1.76	-	39.24	40.90	10.01	42.54
PK	11.65576G	60.35	74.00	-13.65	8.38	3	Horizontal	66	1.76	-	51.97	40.91	10.01	42.54
PK	17.47616G	65.64	68.20	-2.56	18.96	3	Horizontal	246	1.50	-	46.68	47.74	11.66	40.44

802.11ax HEW20_Nss1,(MCS0)_2TX

30/05/2020

5180MHz_TX

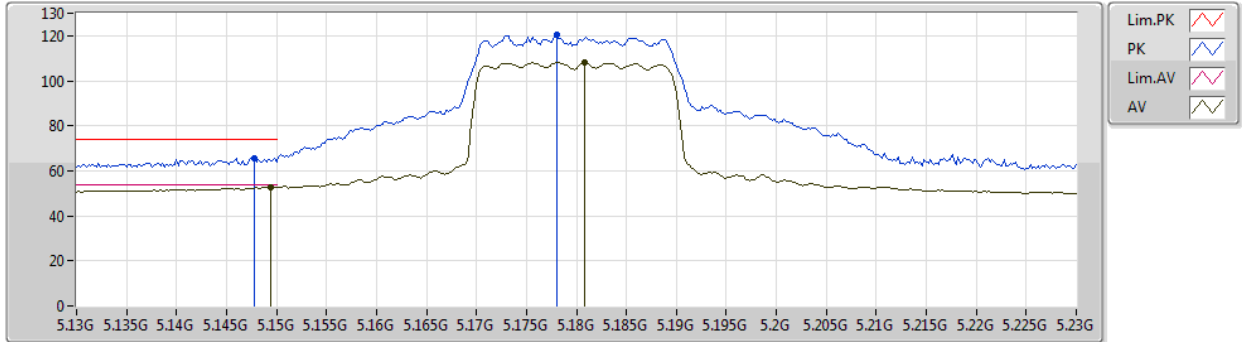


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1484G	50.92	54.00	-3.08	7.72	3	Vertical	266	2.11	-	43.20	34.20	7.57	34.05
AV	5.1816G	106.08	Inf	-Inf	7.74	3	Vertical	266	2.11	-	98.34	34.20	7.59	34.05
PK	5.1458G	64.14	74.00	-9.86	7.72	3	Vertical	266	2.11	-	56.42	34.20	7.57	34.05
PK	5.1866G	118.75	Inf	-Inf	7.74	3	Vertical	266	2.11	-	111.01	34.20	7.59	34.05

802.11ax HEW20_Nss1,(MCS0)_2TX

30/05/2020

5180MHz_TX

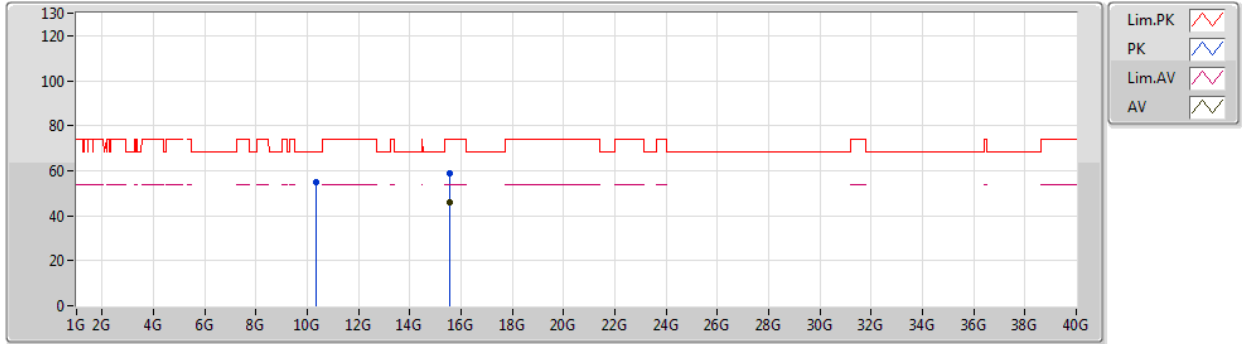


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (*)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1494G	52.93	54.00	-1.07	7.72	3	Horizontal	301	2.09	-	45.21	34.20	7.57	34.05
AV	5.1808G	108.14	Inf	-Inf	7.74	3	Horizontal	301	2.09	-	100.40	34.20	7.59	34.05
PK	5.1478G	65.63	74.00	-8.37	7.72	3	Horizontal	301	2.09	-	57.91	34.20	7.57	34.05
PK	5.178G	120.42	Inf	-Inf	7.74	3	Horizontal	301	2.09	-	112.68	34.20	7.59	34.05

802.11ax HEW20_Nss1,(MCS0)_2TX

30/05/2020

5180MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.54812G	46.07	54.00	-7.93	12.57	3	Vertical	290	1.81	-	33.50	43.68	10.91	42.02
PK	10.35836G	54.66	68.20	-13.54	5.72	3	Vertical	78	1.54	-	48.94	39.15	9.69	43.12
PK	15.54424G	58.86	74.00	-15.14	12.58	3	Vertical	290	1.81	-	46.28	43.69	10.91	42.02