



NCC RADIO TEST REPORT

Equipment : Premium Outdoor 802.11ax WiFi and BLE Array AP
Brand Name : Mist
Model Name : AP63, AP63E
Applicant : Juniper Networks, Inc.
1133 Innovation Way, Sunnyvale, CA 94089, USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way, Sunnyvale, CA 94089, USA
Standard : LP0002 Section 4.7 (2018-01-10)

The product was received on Apr. 16, 2020, and testing was started from Jul. 03, 2020 and completed on Aug. 20, 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: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.2



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	4.7.8	Antenna Requirement	PASS	-
3.1	2.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.7.3	Emission Bandwidth	PASS	-
3.3	4.7.3	Maximum Conducted Output Power	PASS	-
3.4	4.7.3	Peak Power Spectral Density	PASS	-
3.5	4.7.4	Unwanted Emissions	PASS	-
The test results of this report reference the Sporton Report No.: FR041650AC. After evaluating, the test results comply with the test standard LP0002 (2018-01-10).				

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

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

For Radio 1

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



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



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

**For Radio 2**

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

**For Radio 3**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n (HT20)	20	2TX
5.15-5.25GHz	802.11ac (VHT20)	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11n (HT40)	40	2TX
5.15-5.25GHz	802.11ac (VHT40)	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ac (VHT80)	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n (HT20)	20	2TX
5.25-5.35GHz	802.11ac (VHT20)	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11n (HT40)	40	2TX
5.25-5.35GHz	802.11ac (VHT40)	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ac (VHT80)	80	2TX
5.25-5.35GHz	802.11ac (VHT80)-BF	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11a	20	2TX
5.47-5.725GHz	802.11n (HT20)	20	2TX
5.47-5.725GHz	802.11ac (VHT20)	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11n (HT40)	40	2TX
5.47-5.725GHz	802.11ac (VHT40)	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ac (VHT80)	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n (HT20)	20	2TX
5.725-5.85GHz	802.11ac (VHT20)	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11n (HT40)	40	2TX
5.725-5.85GHz	802.11ac (VHT40)	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ac (VHT80)	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, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

For Configuration 1 / Internal Antenna of EUT:

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain(dBi)			Radio
						WLAN 2.4GHz	WLAN 5GHz	Bluetooth	
1 ~ 4	1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	6	-	R1-5GHz
5~8	1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	4	-	-	R2-2.4GHz
9~10	1~2	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	2.3	4.7	-	R3-2.4GHz R3-5GHz
11 ~ 18	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	5.1	R4
19	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	4.3	R4
20	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	1.4	R4

Note: The above information was declared by manufacturer.

For Radio 1 / 5GHz function:

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

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

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

For Radio 2 / 2.4GHz function:

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

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

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

For Radio 3 / 2.4GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 3 / 5GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 4 / Bluetooth function (1TX/1RX):

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

For Configuration 3 / Internal Antenna of EUT:

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain(dBi)					Radio
						WLAN 2.4GHz	WLAN 5GHz			Bluetooth	
							B1 B2 (R1)	B3 B4 (R2)	B1 B2 B3 B4 (R3)		
1 ~ 4	R1:4~1 R2:1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	4	6	-	-	-	R1-5GHz R2-2.4GHz
5~8	1~4	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	6	-	-	R2-5GHz
9~10	1~2	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	2.3	-	-	4.7	-	R3-2.4GHz R3-5GHz
11~18	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	-	-	5.1	R4
19	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	-	-	4.3	R4
20	1	Juniper	81XKAF15,G35	PIFA Antenna	I-PEX	-	-	-	-	1.4	R4

Note: The above information was declared by manufacturer.

For Radio 1 / 5GHz function:
For IEEE 802.11a/n/ac/ax mode (4TX/4RX):

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

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

For Radio 2 / 2.4GHz function:
For IEEE 802.11b/g/n/ax and VHT mode (4TX/4RX):

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

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

For Radio 2 / 5GHz Band 4 function:
For IEEE 802.11b/g/n/ac/ax mode (4TX/4RX):

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

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

For Radio 3 / 2.4GHz function:
For IEEE 802.11b/g/n/ax and VHT mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 3 / 5GHz function:
For IEEE 802.11a/n/ac/ax mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 4 / Bluetooth function (1TX/1RX):

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

For Configuration 2 / External Antenna of EUT:

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Antenna Gain(dBi)			Radio
						WLAN 2.4GHz	WLAN 5GHz	Bluetooth	
1	1~4	AccelTex	ATS-OO-245-46-6NP-36	Omni Antenna	N-Style	4	6	-	R2-2.4GHz R1-5GHz
	1~2	AccelTex	ATS-OO-245-46-6NP-36	Omni Antenna	N-Style	4	6	-	R3-2.4GHz R3-5GHz
2	1~4	AccelTex	ATS-OP-245-810-6NP-36	Patch Antenna	N-Style	8	10	-	R2-2.4GHz R1-5GHz
	1~2	AccelTex	ATS-OP-245-810-6NP-36	Patch Antenna	N-Style	8	10	-	R3-2.4GHz R3-5GHz
3 ~ 10	1	Juniper	81XKAF15,G36	PIFA Antenna	I-PEX	-	-	5.1	R4
11	1	Juniper	81XKAF15,G36	PIFA Antenna	I-PEX	-	-	4.3	R4
12	1	Juniper	81XKAF15,G36	PIFA Antenna	I-PEX	-	-	1.4	R4

Note: The above information was declared by manufacturer.

For Radio 1 / 5GHz function:
For IEEE 802.11a/n/ac/ax mode (4TX/4RX):

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

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

For Radio 2 / 2.4GHz function:
For IEEE 802.11b/g/n/ax and VHT mode (4TX/4RX):

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

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

For Radio 3 / 2.4GHz function:
For IEEE 802.11b/g/n/ax and VHT mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 3 / 5GHz function:
For IEEE 802.11a/n/ac/ax mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 4 / Bluetooth function (1TX/1RX):

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

1.1.3 Mode Test Duty Cycle

For Configuration 1 + EUT 1 / Radio 1:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.947	0.24	2.065m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_4TX	0.964	0.16	781.25u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.931	0.31	415u	3k

For Configuration 3 + EUT 1 / Radio 2 (5GHz / Band 4):

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.947	0.24	2.066m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.978	0.1	1.489m	1k
802.11ax HEW40_Nss1,(MCS0)_4TX	0.964	0.16	781.25u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.931	0.31	415u	3k

For Configuration 1 + EUT 1 / Radio 3:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.957	0.19	2.065m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.978	0.1	1.489m	1k
802.11ax HEW40_Nss1,(MCS0)_2TX	0.964	0.16	781.25u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.931	0.31	415u	3k

For Configuration 2 + EUT 2 / Radio 1 / External Ant.1:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.953	0.21	2.068m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_4TX	0.963	0.16	780.625u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.93	0.32	413.75u	3k

For Configuration 2 + EUT 2 / Radio 3 / External Ant.1:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.947	0.24	2.066m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.978	0.1	1.489m	1k
802.11ax HEW40_Nss1,(MCS0)_2TX	0.964	0.16	781.25u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.931	0.31	415u	3k

For Configuration 2 + EUT 2 / Radio 1 / External Ant.2:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.953	0.21	2.068m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_4TX	0.963	0.16	780.625u	3k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.93	0.32	413.75u	3k

**For Configuration 2 + EUT 2 / Radio 3 / External Ant.2:**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_2TX	0.947	0.24	2.066m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.978	0.1	1.489m	1k
802.11ax HEW40_Nss1,(MCS0)_2TX	0.964	0.16	781.25u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.931	0.31	415u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For 802.11n/VHT/ax in 2.4GHz and 802.11n/ac/ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
TPC Function	☒	With TPC	☐	Without TPC
Function	☒	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	accessMTool 3.2.0.2			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

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

Model Name	EUT	Description
AP63	EUT 1	The model name: AP63 indicates that it comes with internal antennas and The model name: AP63E indicates that the access point comes with external antenna connectors.
AP63E	EUT 2	

1.1.6 Table for EUT Configuration

Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4
1	1	WLAN 5GHz (Full Band)	WLAN 2.4GHz	WLAN 2.4GHz + WLAN 5GHz (Full Band)	Bluetooth
2	2	WLAN 5GHz (Full Band)	WLAN 2.4GHz	WLAN 2.4GHz + WLAN 5GHz (Full Band)	Bluetooth
3	1	WLAN 5GHz (Band 1 ~ Band 2)	WLAN 2.4GHz + WLAN 5GHz (Band 3 ~ Band 4)	WLAN 2.4GHz + WLAN 5GHz (Full Band)	Bluetooth

Note: 1. The Bluetooth antennas are the same for EUT 1 and EUT 2, so there's only EUT 1 was tested and recorded in the report.

2. The above information was declared by manufacturer.

1.2 Applicable Standards

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

- ♦ LP0002 Section 4.7 (2018-01-10)
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH03-CB	Benson Su	24.8-26.6°C / 56-61%	Jul. 07, 2020 ~ Jul. 27, 2020
Radiated<1GHz (Unintentional)	10CH01-CB	Ryo Fan	22~23°C / 61~62%	Aug. 04, 2020 ~ Aug. 05, 2020
Radiated>1GHz (Unintentional)	10CH01-CB	Ryo Fan	21~22°C / 64~65%	Aug. 17, 2020
Radiated<1GHz (Intentional)	10CH01-CB	Ryo Fan	22~23°C / 62~63 %	Aug. 19, 2020~ Aug. 20, 2020
Radiated>1GHz	03CH01-CB	Eason Chen	24.8-26.1°C / 59-61%	Jul. 03, 2020 ~ Jul. 24, 2020
	03CH03-CB	Eason Chen	25.1-26.9°C / 58-60%	Jul. 03, 2020 ~ Jul. 24, 2020
AC Conduction	CO01-CB	Max Lin	20~22°C / 58~60%	Aug. 04, 2020

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.8 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.6 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.39%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Configuration 1 + EUT 1 / Radio 1:

For Band 1, Band 4:

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	51
5200MHz	50
5240MHz	50
5745MHz	87
5785MHz	91
5825MHz	87
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	50
5200MHz	50
5240MHz	49
5745MHz	88
5785MHz	96
5825MHz	89
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	49
5230MHz	49
5755MHz	84
5795MHz	89
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	51
5775MHz	74
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	24
5200MHz	24
5240MHz	24
5745MHz	65
5785MHz	67
5825MHz	66
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	23
5230MHz	22
5755MHz	67
5795MHz	68



Mode	Power Setting
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	25
5775MHz	70

**For Band 2 ~ Band 3:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	45
5300MHz	45
5320MHz	46
5500MHz	48
5580MHz	49
5700MHz	48
5720MHz Straddle 5.47-5.725GHz	47
5720MHz Straddle 5.725-5.85GHz	47
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	47
5300MHz	47
5320MHz	47
5500MHz	50
5580MHz	51
5700MHz	42
5720MHz Straddle 5.47-5.725GHz	49
5720MHz Straddle 5.725-5.85GHz	49
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	59
5310MHz	51
5510MHz	49
5550MHz	61
5670MHz	59
5710MHz Straddle 5.47-5.725GHz	61
5710MHz Straddle 5.725-5.85GHz	61
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	52
5530MHz	55
5610MHz	67
5690MHz Straddle 5.47-5.725GHz	73
5690MHz Straddle 5.725-5.85GHz	73
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	42
5300MHz	43
5320MHz	43
5500MHz	45
5580MHz	45
5700MHz	42



Mode	Power Setting
5720MHz Straddle 5.47-5.725GHz	51
5720MHz Straddle 5.725-5.85GHz	51
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	43
5310MHz	43
5510MHz	45
5550MHz	45
5670MHz	44
5710MHz Straddle 5.47-5.725GHz	48
5710MHz Straddle 5.725-5.85GHz	48
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	45
5530MHz	45
5610MHz	45
5690MHz Straddle 5.47-5.725GHz	47
5690MHz Straddle 5.725-5.85GHz	47

**For Configuration 3 + EUT 1 / Radio 2:
For Band 3:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5500MHz	48
5580MHz	49
5700MHz	48
5720MHz Straddle 5.47-5.725GHz	49
5720MHz Straddle 5.725-5.85GHz	49
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5500MHz	49
5580MHz	50
5700MHz	49
5720MHz Straddle 5.47-5.725GHz	51
5720MHz Straddle 5.725-5.85GHz	51
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5510MHz	59
5550MHz	61
5670MHz	59
5710MHz Straddle 5.47-5.725GHz	61
5710MHz Straddle 5.725-5.85GHz	61
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5530MHz	62
5610MHz	68
5690MHz Straddle 5.47-5.725GHz	69
5690MHz Straddle 5.725-5.85GHz	69
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5500MHz	47
5580MHz	48
5700MHz	48
5720MHz Straddle 5.47-5.725GHz	51
5720MHz Straddle 5.725-5.85GHz	51
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5510MHz	49
5550MHz	49
5670MHz	47
5710MHz Straddle 5.47-5.725GHz	49
5710MHz Straddle 5.725-5.85GHz	49
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5530MHz	49
5610MHz	47



Mode	Power Setting
5690MHz Straddle 5.47-5.725GHz	46
5690MHz Straddle 5.725-5.85GHz	46

**For Band 4:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5745MHz	99
5785MHz	96
5825MHz	91
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5745MHz	99
5785MHz	96
5825MHz	90
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5755MHz	93
5795MHz	92
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5775MHz	81
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5745MHz	70
5785MHz	72
5825MHz	72
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5755MHz	72
5795MHz	72
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5775MHz	73

**For Configuration 1 + EUT 1 / Radio 3:
For Band 1, Band 4:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	67
5200MHz	67
5240MHz	67
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	66
5200MHz	66
5240MHz	66
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	63
5230MHz	66
5755MHz	100
5795MHz	100
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	59
5775MHz	86

**For Band 2 ~ Band 3:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	76
5300MHz	77
5320MHz	77
5500MHz	74
5580MHz	79
5700MHz	63
5720MHz Straddle 5.47-5.725GHz	78
5720MHz Straddle 5.725-5.85GHz	78
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	78
5300MHz	78
5320MHz	77
5500MHz	72
5580MHz	80
5700MHz	54
5720MHz Straddle 5.47-5.725GHz	79
5720MHz Straddle 5.725-5.85GHz	79
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	83
5310MHz	67
5510MHz	68
5550MHz	85
5670MHz	77
5710MHz Straddle 5.47-5.725GHz	86
5710MHz Straddle 5.725-5.85GHz	86
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	66
5530MHz	68
5610MHz	82
5690MHz Straddle 5.47-5.725GHz	85
5690MHz Straddle 5.725-5.85GHz	85



**For Configuration 2 + EUT 2 / Radio 1 / External Ant.1:
For Band 1, Band 4:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	56
5200MHz	56
5240MHz	56
5745MHz	86
5785MHz	77
5825MHz	78
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	55
5200MHz	55
5240MHz	55
5745MHz	85
5785MHz	90
5825MHz	81
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	55
5230MHz	55
5755MHz	82
5795MHz	89
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	57
5775MHz	79
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	30
5200MHz	30
5240MHz	30
5745MHz	67
5785MHz	67
5825MHz	68
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	30
5230MHz	29
5755MHz	69
5795MHz	69
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	31
5775MHz	71

**For Band 2 ~ Band 3:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	43
5300MHz	44
5320MHz	44
5500MHz	46
5580MHz	47
5700MHz	49
5720MHz Straddle 5.47-5.725GHz	49
5720MHz Straddle 5.725-5.85GHz	49
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	45
5300MHz	46
5320MHz	46
5500MHz	47
5580MHz	49
5700MHz	49
5720MHz Straddle 5.47-5.725GHz	50
5720MHz Straddle 5.725-5.85GHz	50
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	57
5310MHz	54
5510MHz	54
5550MHz	59
5670MHz	62
5710MHz Straddle 5.47-5.725GHz	62
5710MHz Straddle 5.725-5.85GHz	62
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	53
5530MHz	55
5610MHz	71
5690MHz Straddle 5.47-5.725GHz	75
5690MHz Straddle 5.725-5.85GHz	75
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	42
5300MHz	42
5320MHz	42
5500MHz	44
5580MHz	45



Mode	Power Setting
5700MHz	47
5720MHz Straddle 5.47-5.725GHz	50
5720MHz Straddle 5.725-5.85GHz	50
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	42
5310MHz	43
5510MHz	43
5550MHz	44
5670MHz	47
5710MHz Straddle 5.47-5.725GHz	47
5710MHz Straddle 5.725-5.85GHz	47
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	44
5530MHz	44
5610MHz	47
5690MHz Straddle 5.47-5.725GHz	47
5690MHz Straddle 5.725-5.85GHz	47



**For Configuration 2 + EUT 2 / Radio 3 / External Ant.1:
For Band 1, Band 4:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	75
5200MHz	75
5240MHz	75
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	73
5200MHz	74
5240MHz	74
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	67
5230MHz	75
5755MHz	98
5795MHz	104
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	65
5775MHz	86

**For Band 2 ~ Band 3:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	67
5300MHz	68
5320MHz	68
5500MHz	65
5580MHz	69
5700MHz	68
5720MHz Straddle 5.47-5.725GHz	71
5720MHz Straddle 5.725-5.85GHz	71
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	69
5300MHz	69
5320MHz	70
5500MHz	69
5580MHz	70
5700MHz	61
5720MHz Straddle 5.47-5.725GHz	73
5720MHz Straddle 5.725-5.85GHz	73
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	80
5310MHz	65
5510MHz	64
5550MHz	80
5670MHz	80
5710MHz Straddle 5.47-5.725GHz	86
5710MHz Straddle 5.725-5.85GHz	86
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	65
5530MHz	65
5610MHz	84
5690MHz Straddle 5.47-5.725GHz	86
5690MHz Straddle 5.725-5.85GHz	86

**For Configuration 2 + EUT 2 / Radio 1 / External Ant.2:****For Band 1, Band 4 Conducted measurement and Band Edge Emission test:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	43
5200MHz	43
5240MHz	42
5745MHz	79
5785MHz	77
5825MHz	78
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	42
5200MHz	42
5240MHz	41
5745MHz	78
5785MHz	78
5825MHz	78
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	42
5230MHz	42
5755MHz	80
5795MHz	79
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	43
5775MHz	70
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	59
5200MHz	59
5240MHz	59
5745MHz	49
5785MHz	50
5825MHz	51
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	58
5230MHz	58
5755MHz	51
5795MHz	52
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	57
5775MHz	54

**For Band 2 ~ Band 3 Conducted measurement and Band Edge Emission test:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	26
5300MHz	27
5320MHz	27
5500MHz	28
5580MHz	29
5700MHz	31
5720MHz Straddle 5.47-5.725GHz	31
5720MHz Straddle 5.725-5.85GHz	31
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	28
5300MHz	29
5320MHz	29
5500MHz	30
5580MHz	31
5700MHz	33
5720MHz Straddle 5.47-5.725GHz	33
5720MHz Straddle 5.725-5.85GHz	33
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	40
5310MHz	41
5510MHz	42
5550MHz	43
5670MHz	46
5710MHz Straddle 5.47-5.725GHz	45
5710MHz Straddle 5.725-5.85GHz	45
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	52
5530MHz	53
5610MHz	57
5690MHz Straddle 5.47-5.725GHz	57
5690MHz Straddle 5.725-5.85GHz	57
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	25
5300MHz	25
5320MHz	25
5500MHz	26
5580MHz	27
5700MHz	29



Mode	Power Setting
5720MHz Straddle 5.47-5.725GHz	33
5720MHz Straddle 5.725-5.85GHz	33
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	24
5310MHz	25
5510MHz	26
5550MHz	27
5670MHz	29
5710MHz Straddle 5.47-5.725GHz	29
5710MHz Straddle 5.725-5.85GHz	29
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	27
5530MHz	27
5610MHz	30
5690MHz Straddle 5.47-5.725GHz	29
5690MHz Straddle 5.725-5.85GHz	29

**For Band 1, Band 4 Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	108
5200MHz	108
5240MHz	108
5745MHz	87
5785MHz	77
5825MHz	78
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	108
5200MHz	108
5240MHz	108
5745MHz	88
5785MHz	90
5825MHz	81
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	108
5230MHz	108
5755MHz	97
5795MHz	108
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	108
5775MHz	108

**For Band 2 ~ Band 3 Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	108
5300MHz	108
5320MHz	108
5500MHz	108
5580MHz	108
5700MHz	103
5720MHz Straddle 5.47-5.725GHz	96
5720MHz Straddle 5.725-5.85GHz	96
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	108
5300MHz	108
5320MHz	108
5500MHz	108
5580MHz	108
5700MHz	106
5720MHz Straddle 5.47-5.725GHz	102
5720MHz Straddle 5.725-5.85GHz	102
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	108
5310MHz	108
5510MHz	108
5550MHz	108
5670MHz	108
5710MHz Straddle 5.47-5.725GHz	108
5710MHz Straddle 5.725-5.85GHz	108
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	108
5530MHz	108
5610MHz	108
5690MHz Straddle 5.47-5.725GHz	108
5690MHz Straddle 5.725-5.85GHz	108

**For Configuration 2 + EUT 2 / Radio 3 / External Ant.2:****For Band 1, Band 4 Conducted measurement and Band Edge Emission test:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	63
5200MHz	63
5240MHz	63
5745MHz	91
5785MHz	91
5825MHz	92
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	62
5200MHz	62
5240MHz	62
5745MHz	90
5785MHz	91
5825MHz	92
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	63
5230MHz	63
5755MHz	93
5795MHz	93
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	63
5775MHz	81

**For Band 2 ~ Band 3 Conducted measurement and Band Edge Emission test:**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	52
5300MHz	53
5320MHz	52
5500MHz	51
5580MHz	53
5700MHz	56
5720MHz Straddle 5.47-5.725GHz	56
5720MHz Straddle 5.725-5.85GHz	56
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	54
5300MHz	54
5320MHz	54
5500MHz	53
5580MHz	55
5700MHz	57
5720MHz Straddle 5.47-5.725GHz	58
5720MHz Straddle 5.725-5.85GHz	58
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	65
5310MHz	64
5510MHz	60
5550MHz	64
5670MHz	68
5710MHz Straddle 5.47-5.725GHz	70
5710MHz Straddle 5.725-5.85GHz	70
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	66
5530MHz	63
5610MHz	68
5690MHz Straddle 5.47-5.725GHz	69
5690MHz Straddle 5.725-5.85GHz	69

**For Band 1, Band 4 Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	108
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	108
5200MHz	108
5240MHz	108
5745MHz	108
5785MHz	108
5825MHz	108
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	108
5230MHz	108
5755MHz	108
5795MHz	108
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	108
5775MHz	108

**For Band 2 ~ Band 3 Radiated Emission:**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	108
5300MHz	108
5320MHz	108
5500MHz	108
5580MHz	108
5700MHz	108
5720MHz Straddle 5.47-5.725GHz	108
5720MHz Straddle 5.725-5.85GHz	108
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	108
5300MHz	108
5320MHz	108
5500MHz	108
5580MHz	108
5700MHz	108
5720MHz Straddle 5.47-5.725GHz	108
5720MHz Straddle 5.725-5.85GHz	108
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	108
5310MHz	108
5510MHz	108
5550MHz	108
5670MHz	108
5710MHz Straddle 5.47-5.725GHz	108
5710MHz Straddle 5.725-5.85GHz	108
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	108
5530MHz	108
5610MHz	108
5690MHz Straddle 5.47-5.725GHz	108
5690MHz Straddle 5.725-5.85GHz	108

Note: The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests							
Tests Item		AC power-line conducted emissions					
Condition		AC power-line conducted measurement for line and neutral					
Operating Mode		Unintentional - Normal Link					
Test Mode	Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Power supply
1	Configuration 1	EUT 1	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
2	Configuration 1	EUT 1	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
3	Configuration 2 + External Ant.2	EUT 2	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
4	Configuration 2 + External Ant.2	EUT 2	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
5	Configuration 3	EUT 1	WLAN 5GHz (Low Band)	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
6	Configuration 3	EUT 1	WLAN 5GHz (Low Band)	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
7	Configuration 3	EUT 1	WLAN 5GHz (Low Band)	WLAN 5GHz (High Band)	WLAN 2.4GHz	Bluetooth	PoE
8	Configuration 3	EUT 1	WLAN 5GHz (Low Band)	WLAN 5GHz (High Band)	WLAN 5GHz	Bluetooth	PoE
For operating mode 4 is the worst case and it was record in this test report.							



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	
Test Mdoe	1	Configuration 1 + EUT 1 / Radio 1
	2	Configuration 3 + EUT 1 / Radio 2 (5GHz / Band 4)
	3	Configuration 1 + EUT 1 / Radio 3
	4	Configuration 2 + EUT 2 / Radio 1 / External Ant.1
	5	Configuration 2 + EUT 2 / Radio 3 / External Ant.1
	6	Configuration 2 + EUT 2 / Radio 1 / External Ant.2
	7	Configuration 2 + EUT 2 / Radio 3 / External Ant.2

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		Unintentional - Normal Link					
Test Mode	Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Power supply
1	Configuration 1	EUT 1 in Y axis	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
2	Configuration 1	EUT 1 in Z axis	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 ~ 9 will follow this same test mode.							
3	Configuration 1	EUT 1 in Y axis	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
4	Configuration 2 + External Ant.2	EUT 2 in Y axis	WLAN 5GHz	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
5	Configuration 2 + External Ant.2	EUT 2 in Y axis	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
6	Configuration 3	EUT 1 in Y axis	WLAN 5GHz (Low Band)	WLAN 2.4GHz	WLAN 2.4GHz	Bluetooth	PoE
7	Configuration 3	EUT 1 in Y axis	WLAN 5GHz (Low Band)	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
8	Configuration 3	EUT 1 in Y axis	WLAN 5GHz (Low Band)	WLAN 5GHz (High Band)	WLAN 2.4GHz	Bluetooth	PoE
9	Configuration 3	EUT 1 in Y axis	WLAN 5GHz (Low Band)	WLAN 5GHz (High Band)	WLAN 5GHz	Bluetooth	PoE
For operating mode 3 is the worst case and it was record in this test report.							

Operating Mode < 1GHz	Intentional - CTX
This tests with highest power setting for WLAN and highest gain for Bluetooth. The External Ant.1 was performed at 90° and 180° position and the worst case was found at 180°. So the measurement will follow this same test configuration. For WLAN 2.4GHz: Radio 2 has been evaluated to be the worst case for Emissions in Restricted Frequency Bands Intentional above 1GHz test. Consequently, measurement for Emissions in Restricted Frequency Bands Intentional below 1GHz will follow this same test mode. The EUT was performed at X · Y axis and Z axis position for Emissions in Restricted Frequency Bands Intentional above 1GHz test and the worst case was found at below: 1. EUT 1 in Z axis 2. EUT 2 in X axis + external Ant.1 3. EUT 2 in X axis + external Ant.2 For WLAN 5GHz: For EUT 1 is Radio 2 and EUT 2 is Radio 3 has been evaluated to be the worst case for Unwanted EmissionsIntentional above 1GHz test. Consequently, measurement for Unwanted EmissionsIntentional below 1GHz will follow this same test mode. The EUT was performed at X · Y axis and Z axis position for Unwanted Emissions Intentional above 1GHz test and the worst case was found at below: 1. EUT 1 in Y axis 2. EUT 2 in X axis + external Ant.1 3. EUT 2 in X axis + external Ant.2 For Bluetooth Ant. 11 ~ Ant.18 (Directional Mode): Ant.11 ~ Ant.18 can be used as transmitting/receiving functions, but only one antenna can be used as transmitting/receiving functions at one time and the worst case was found at Ant.17. So the measurement will follow this same test configuration. The EUT was performed at X · Y axis and Z axis and the worst case was found at Y axis. So the measurement will follow this same test configuration.	
1	EUT 1 in Z axis + WLAN 2.4GHz (Radio 2)
2	EUT 2 in X axis + external Ant.1 + WLAN 2.4GHz (Radio 2)
3	EUT 2 in X axis + external Ant.2 + WLAN 2.4GHz (Radio 2)
4	EUT 1 in Y axis + WLAN 5GHz (Radio 2)
5	EUT 2 in X axis + external Ant.1 + WLAN 5GHz (Radio 3)
6	EUT 2 in X axis + external Ant.2 + WLAN 5GHz (Radio 3)
7	EUT 1 in Y axis + Ant. 17 (Directional Mode / Beam 7)
For operating mode 1 is the worst case and it was record in this test report.	

Operating Mode > 1GHz		Unintentional - Normal Link					
Mode 3 generated the worst test result for Emissions in Restricted Frequency Bands unintentional below 1GHz test, thus the measurement for Emissions in Restricted Frequency Bands unintentional 1GHz~5th Harmonic test will follow this same test configuration.							
Test Mode	Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4	Power supply
1	Configuration 1	EUT 1 in Y axis	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	PoE
Operating Mode > 1GHz		Intentional - CTX					
1. The External Ant.1 was performed at 90° and 180° position and the worst case was found at 180° . So the measurement will follow this same test configuration.							
2. The EUT was performed at X 、Y axis and Z axis and the worst case was found at below:							
Items	Radiated Emission			Band Edge Emission			
	Radio 1	Radio 2	Radio 3	Radio 1	Radio 2	Radio 3	
EUT 1	Y axis	Y axis	X axis	Y axis	Y axis	X axis	
EUT 2 + External Ant.1 in 180°	(Note 1)	Without support	(Note 1)	X axis	Without support	X axis	
EUT 2 + External Ant.2	Z axis	Without support	X axis	Z axis	Without support	Y axis	
Note 1	The EUT 2 accompanies with two types of external antennas. The External Ant.2 with the highest gain and highest power setting were selected to conduct the measurement, and the test result is recorded in this test report.						

Note: The PoE is for measurement only, would not be marketed.

PoE information as below:

Power	Brand	Model	Remark
PoE 1	YAMAHA	YPS-PoE-AT	Provided by applicant
PoE 2	Buffalo	BIJ-POE-1P:T	Provided by applicant

2. The applicant declared that the accessories of this case were for measurement only and it would not be marketed. The accessories will be provided and inspected by the laboratory (or the applicant).

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Equipment Name	Brand Holder	Model Name
Flush Mount Bracket*1	Juniper Networks, Inc.	APOUTBR-FN
Mounting Bracket*2	Juniper Networks, Inc.	APOUTBR-ART2
Seal*2	Juniper Networks, Inc.	AP63

2.5 Support Equipment

For AC Conduction and Radiated (Unintentional):

Support Equipment					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
A	2.4G NB	DELL	E6430	N/A	Provided by Lab
B	5G-1 NB	DELL	E6430	N/A	Provided by Lab
C	5G-2 NB	DELL	E6430	N/A	Provided by Lab
D	2.5G LAN PC	DELL	T3400	N/A	Provided by Lab
E	Monitor	DELL	1704FPTt	N/A	Provided by Lab
F	Keyboard	iCooky	SK068	N/A	Provided by Lab
G	Mouse	HP	FM100	N/A	Provided by Lab
H	Modem	ACEEX	DM1414	N/A	Provided by Lab
I	Printer	EPSON	LQ-300+	N/A	Provided by Lab
J	PoE 1	YAMAHA	YPS-PoE-AT	N/A	Provided by applicant
K	Smart Phone	Samsung	Galaxy J2	N/A	Provided by Lab
L	PoE LOAD	N/A	N/A	N/A	Provided by applicant
M	PoE LOAD NB	DELL	E6430	N/A	Provided by Lab

For Radiated Below 1GHz (Intentional):

Support Equipment					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
A	PoE 1	YAMAHA	YPS-PoE-AT	N/A	Provided by applicant
B	Notebook	DELL	E6430	N/A	Provided by Lab

**For Radiated Above 1GHz (Intentional):**

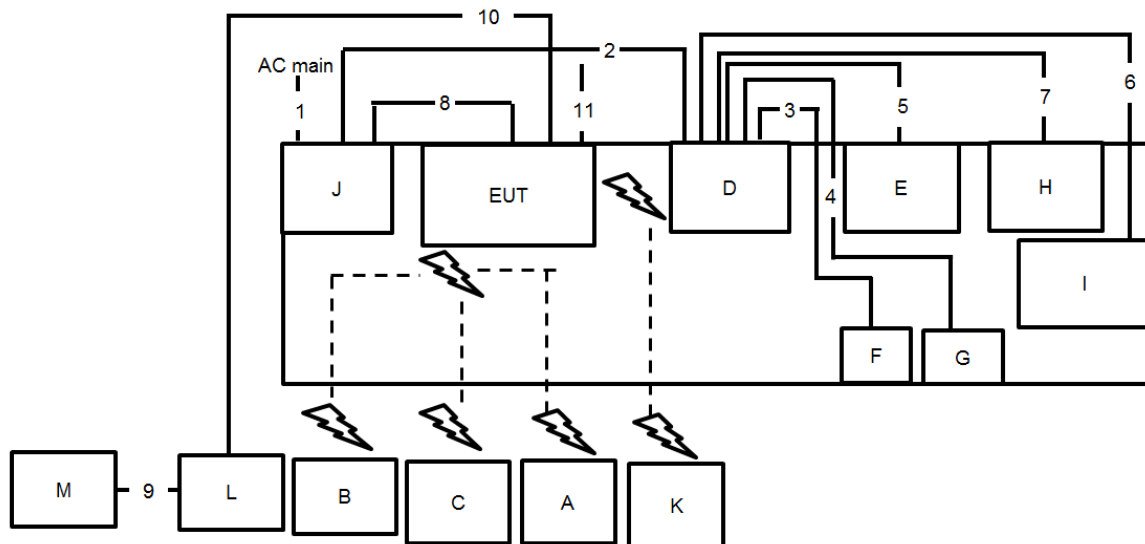
Support Equipment					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
A	PoE 2	Buffalo	BIJ-POE-1P:T	N/A	Provided by applicant
B	Notebook	DELL	E4300	N/A	Provided by Lab

For RF Conducted:

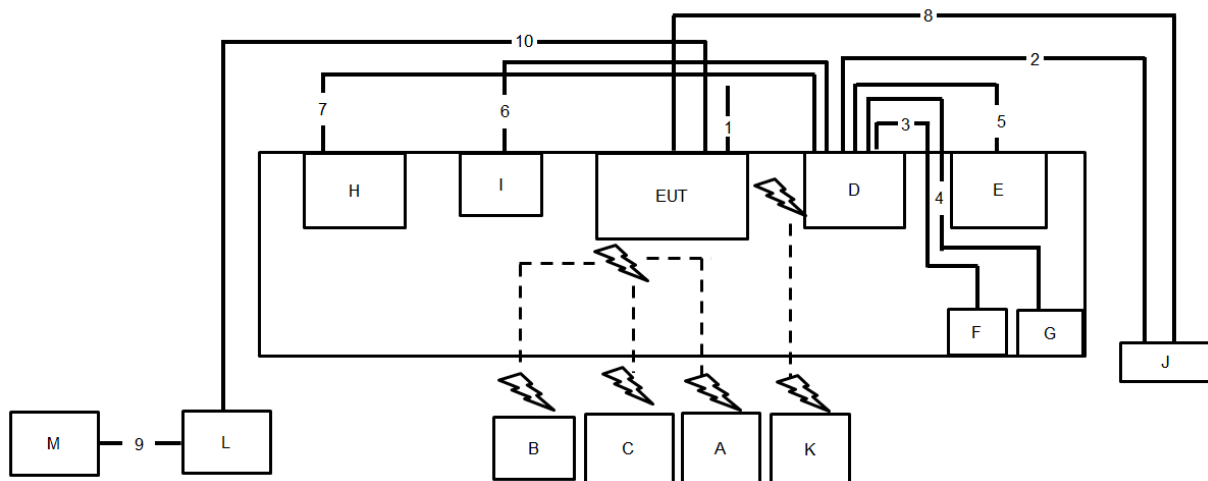
Support Equipment					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
A	Notebook	DELL	E4300	N/A	Provided by Lab
B	PoE 2	Buffalo	BIJ-POE-1P:T	N/A	Provided by applicant

2.6 Test Setup Diagram

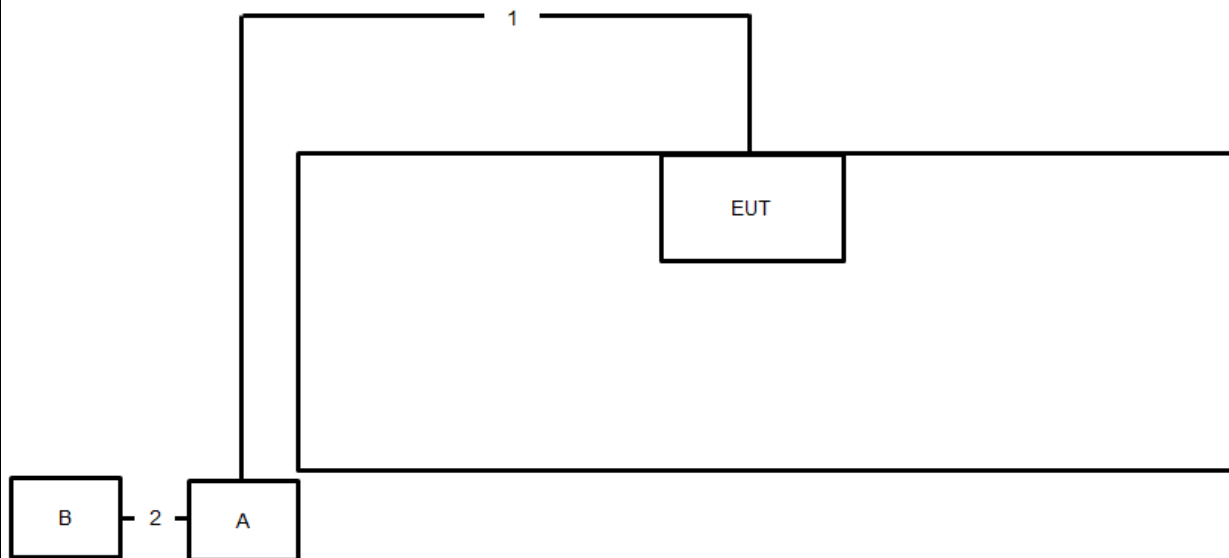
Test Setup Diagram – AC Line Conducted Emission Test



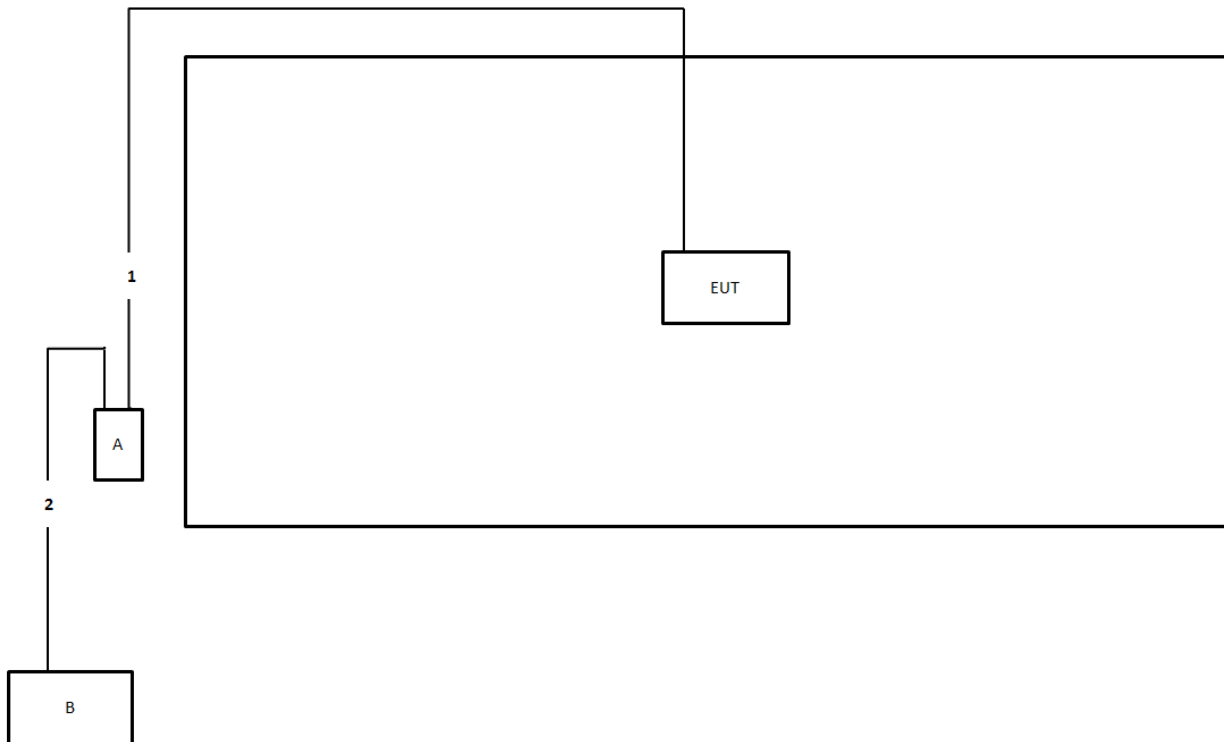
Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	Power cable	No	1.8m	-	-	Provided by Lab
2	RJ-45 cable	No	1.5m	-	-	Provided by Lab
3	USB cable	Yes	1.8m	-	-	Provided by Lab
4	USB cable	Yes	1.8m	-	-	Provided by Lab
5	VGA cable	Yes	1.8m	-	-	Provided by Lab
6	USB cable	Yes	1.8m	-	-	Provided by Lab
7	RS-232 cable	Yes	1.8m	-	-	Provided by Lab
8	RJ-45 cable	No	1.5m	PowerSync	CLN5GBR9020	Provided by Lab
9	RJ-45 cable	No	1.5m	-	-	Provided by Lab
10	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab
11	Ground cable	No	1.5m	-	-	Provided by Lab

Test Setup Diagram - Radiated Test / Unintentional - Normal Link


Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	Ground cable	No	1.5m	-	-	Provided by Lab
2	RJ-45 cable	No	10m	-	-	Provided by Lab
3	USB cable	Yes	1.8m	-	-	Provided by Lab
4	USB cable	Yes	1.8m	-	-	Provided by Lab
5	VGA cable	Yes	1.8m	-	-	Provided by Lab
6	USB cable	Yes	1.8m	-	-	Provided by Lab
7	RS-232 cable	Yes	1.8m	-	-	Provided by Lab
8	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab
9	RJ-45 cable	No	3m	-	-	Provided by Lab
10	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab

Test Setup Diagram - Radiated < 1GHz Test / Intentional - CTX


Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab
2	RJ-45 cable	No	1.5m	-	-	Provided by Lab

Test Setup Diagram - Radiated Test > 1GHz / Intentional - CTX


Item	Connection	Shielded	Length	Brand Name	Model Name	Remark
1	RJ-45 cable	No	10m	PowerSync	CLN5GBR9020	Provided by Lab
2	RJ-45 cable	No	1.5m	-	-	Provided by Lab

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

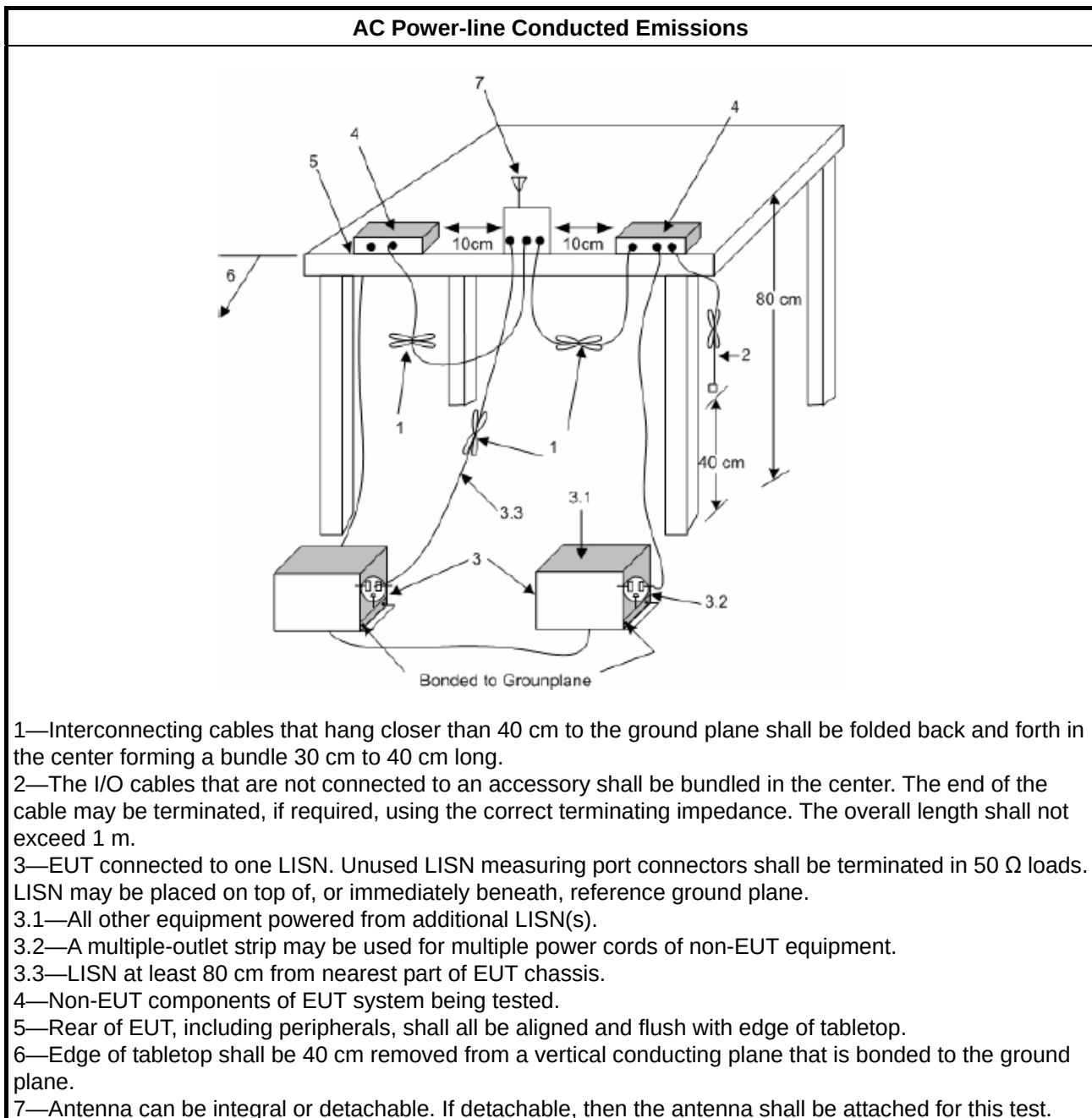
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

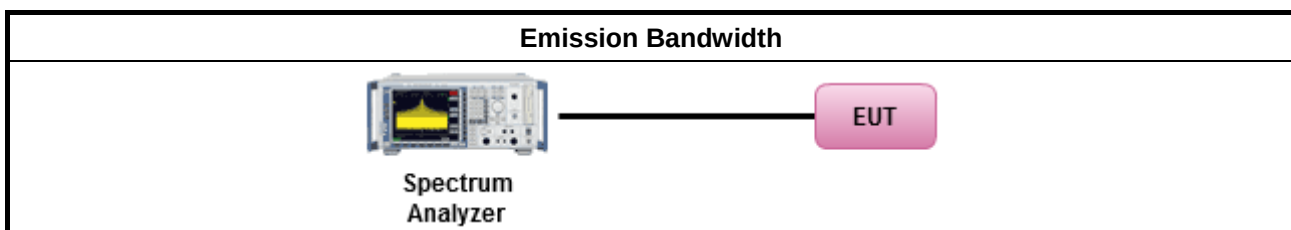
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

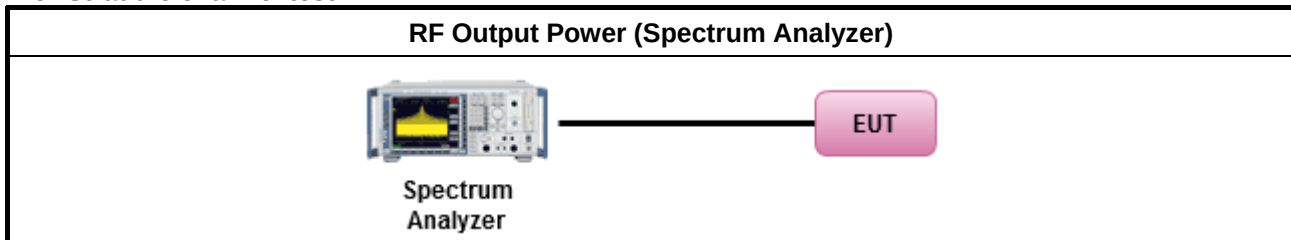
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

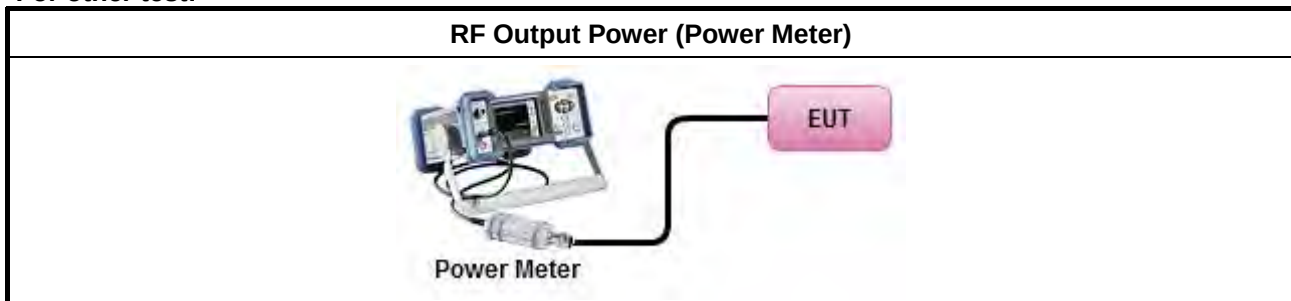
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.3.4 Test Setup

For Straddle channel test:



For other test:



3.3.5 Test Result of Maximum Conducted Output Power

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

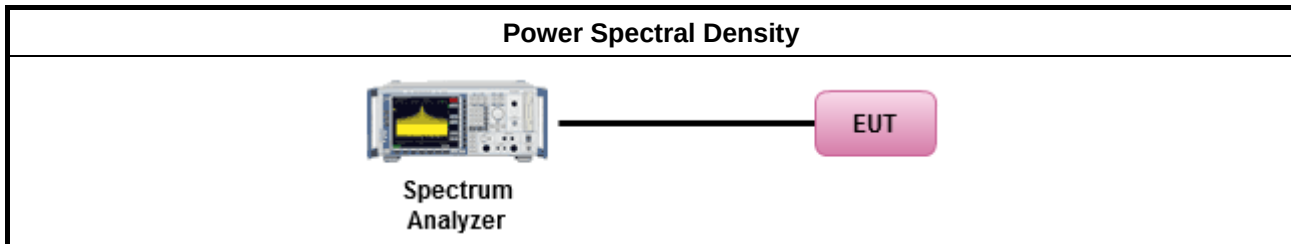
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

3.5.2 Measuring Instruments

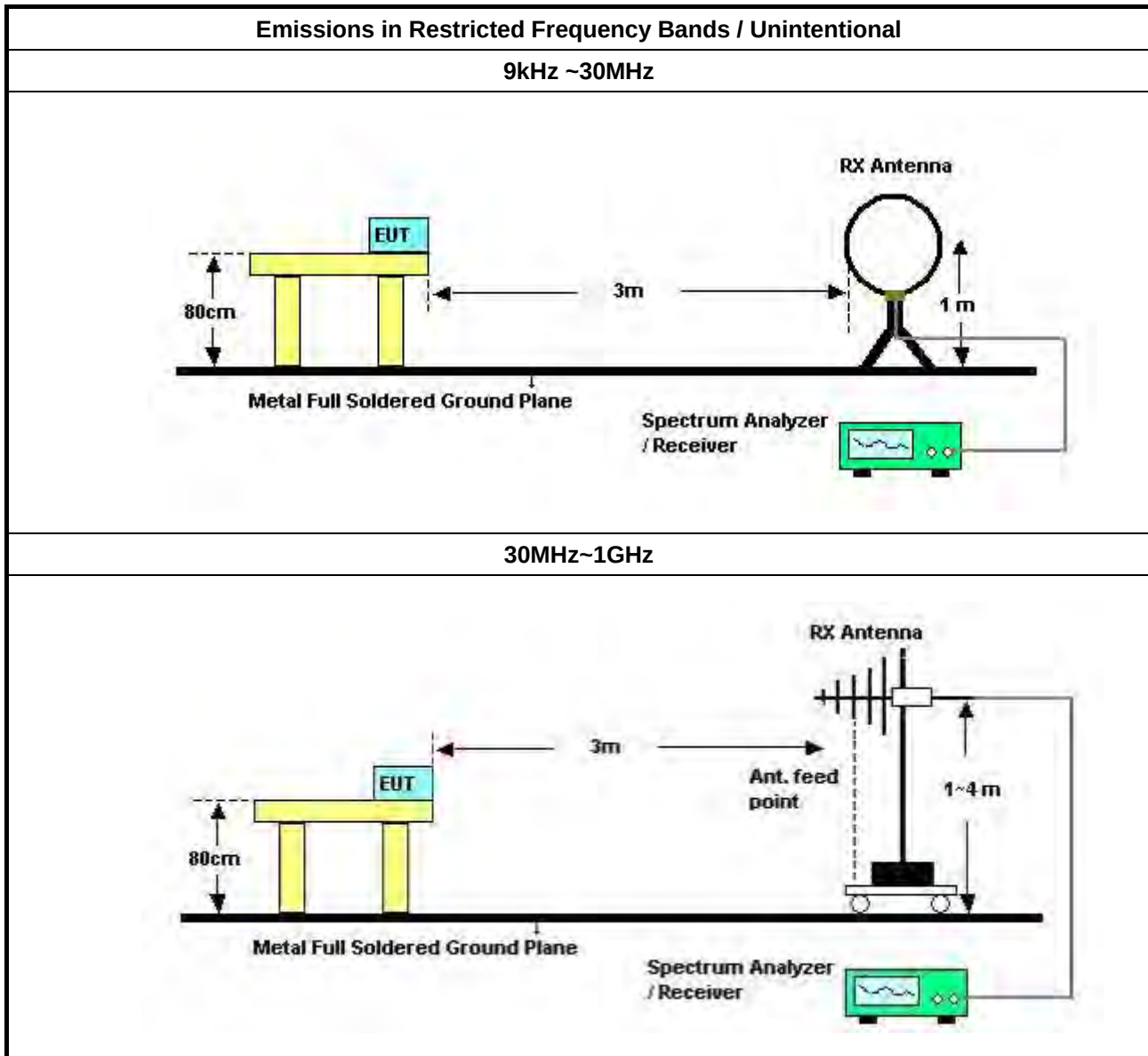
Refer a test equipment and calibration data table in this test report.

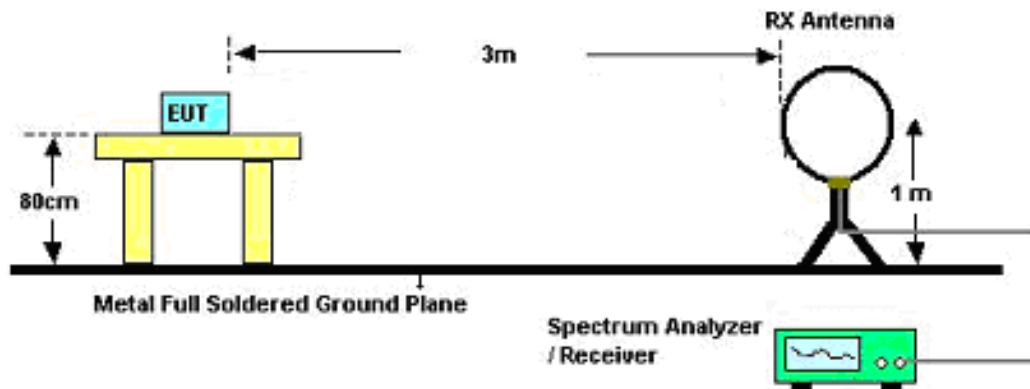
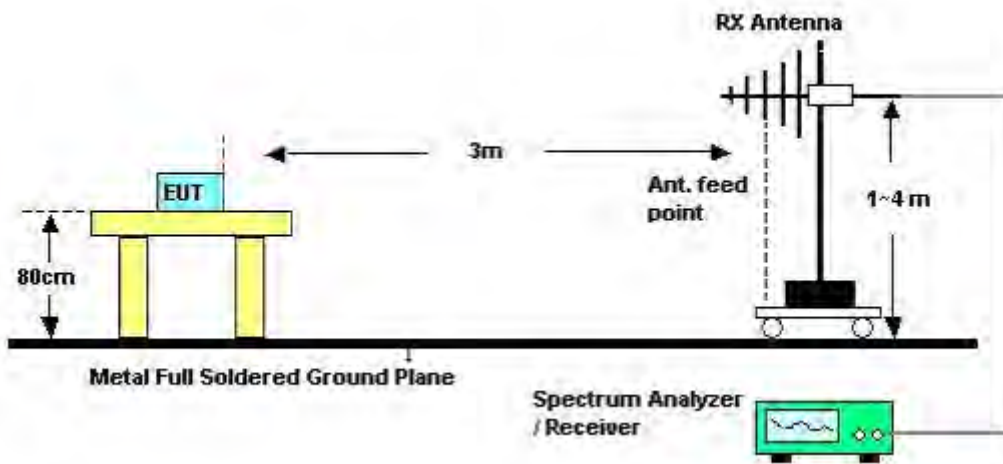


3.5.3 Test Procedures

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

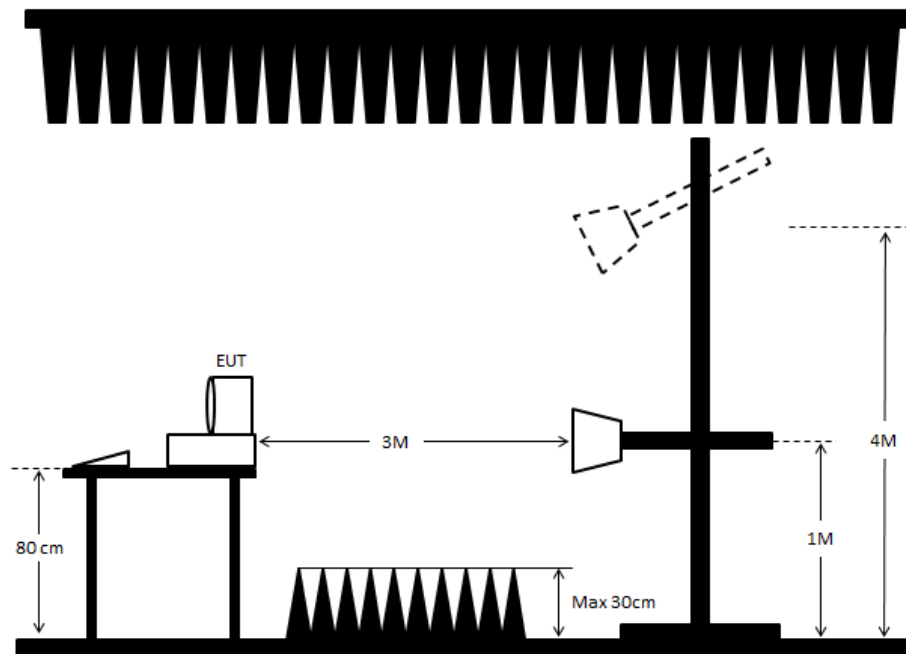
3.5.4 Test Setup



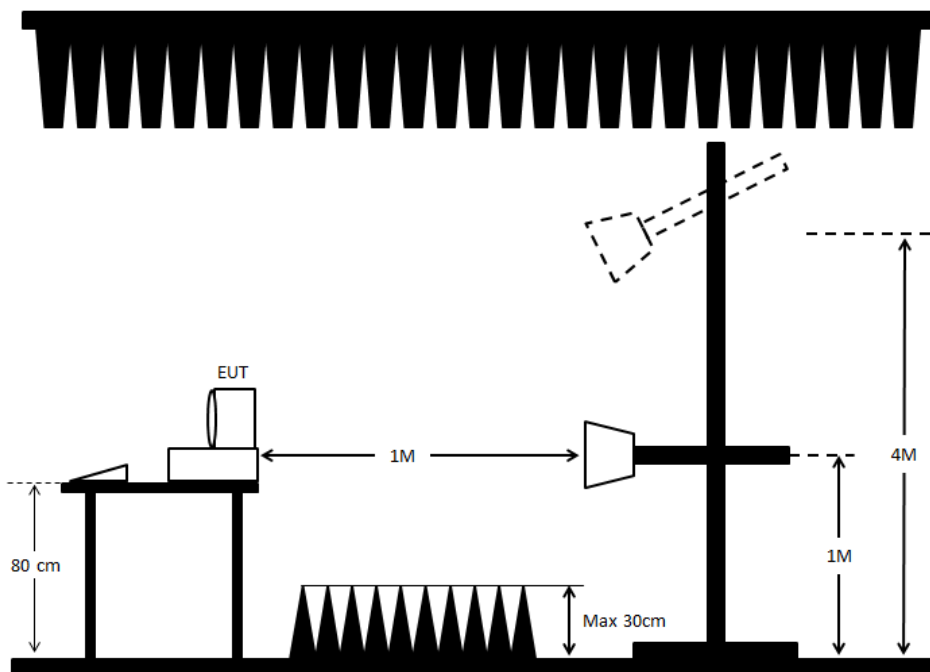
Emissions in Restricted Frequency Bands / Intentional
9kHz ~30MHz

30MHz~1GHz


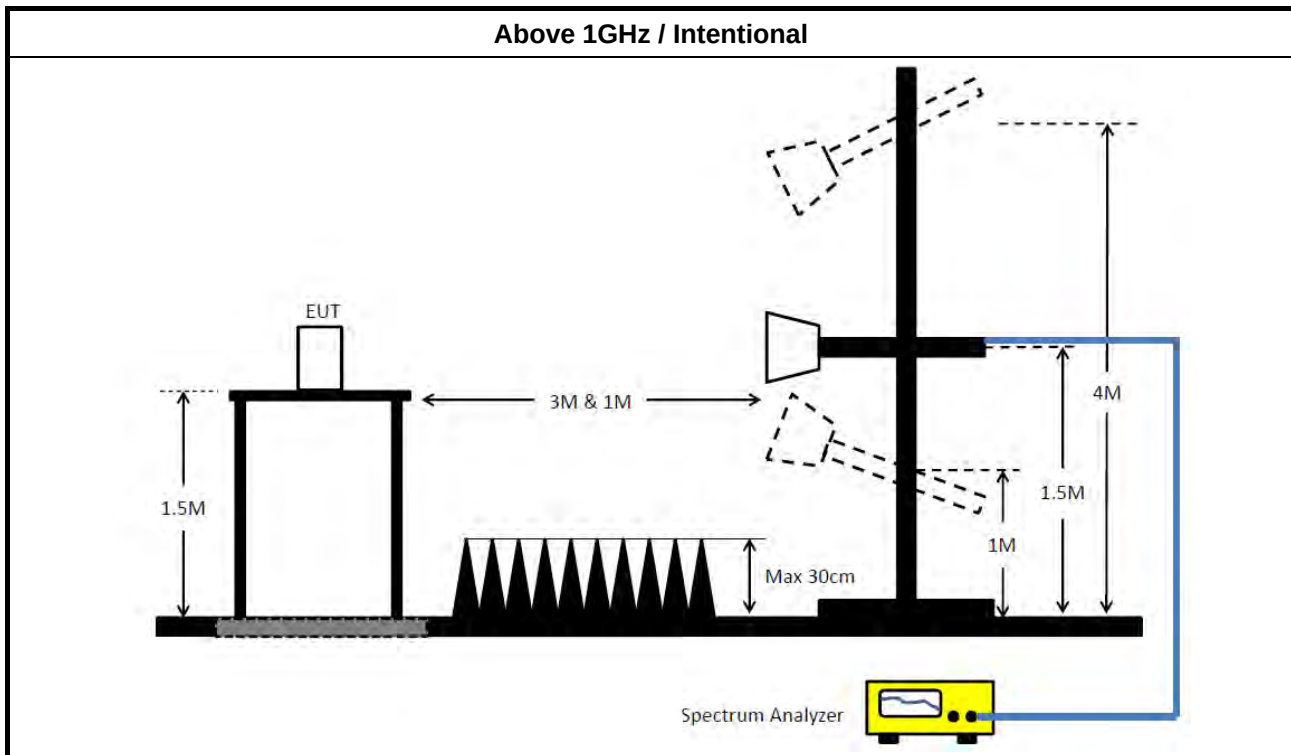
Above 1GHz / Unintentional

1,000~18,000 MHz



18,000~30,000 MHz





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor (if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (10CH01-CB)
10m Semi Anechoic Chamber	TDK	NSA	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 30, 2020	Jan. 29, 2021	Radiation (10CH01-CB)
10m Semi Anechoic Chamber	TDK	VSWR	10CH01-CB	1GHz ~18GHz 3m	Mar. 13, 2020	Mar. 12, 2021	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 19, 2020	Mar. 18, 2021	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2020	Mar. 10, 2021	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (10CH01-CB)
Biconical Antenna	Schwarzbeck	VHBB 9124	324	30MHz ~ 200MHz	Apr. 20, 2020	Apr. 19, 2021	Radiation (10CH01-CB)
Log Antenna	Schwarzbeck	VUSLP 9111	247	200MHz ~ 1GHz	May 25, 2020	May 24, 2021	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (10CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (10CH01-CB)
Horn Antenna	ESCO	3117	00081283	1GHz ~ 18GHz	Nov. 27, 2019	Nov. 26, 2020	Radiation (10CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (10CH01-CB)
Amplifier	Agilent	8449B	3008A02660	1GHz ~ 26.5GHz	May 21, 2020	May 20, 2021	Radiation (10CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (10CH01-CB)
CABLE (1~40G)	Woken	SUCOFLEX 104	high cable-01	1GHz ~ 40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (10CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Software	Audix	E3	6.120210m	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 20, 2020	Jan. 19, 2021	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH03-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 26.5GHz	Aug. 02, 2019	Aug. 01, 2020	Radiation (03CH03-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+27(spare)	1GHz ~ 18GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-27(spare)	1GHz ~ 18GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Nov. 01, 2019	Oct. 31, 2020	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)

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

N.C.R. means Non-Calibration required.



AC Power Port Conducted Emission Result

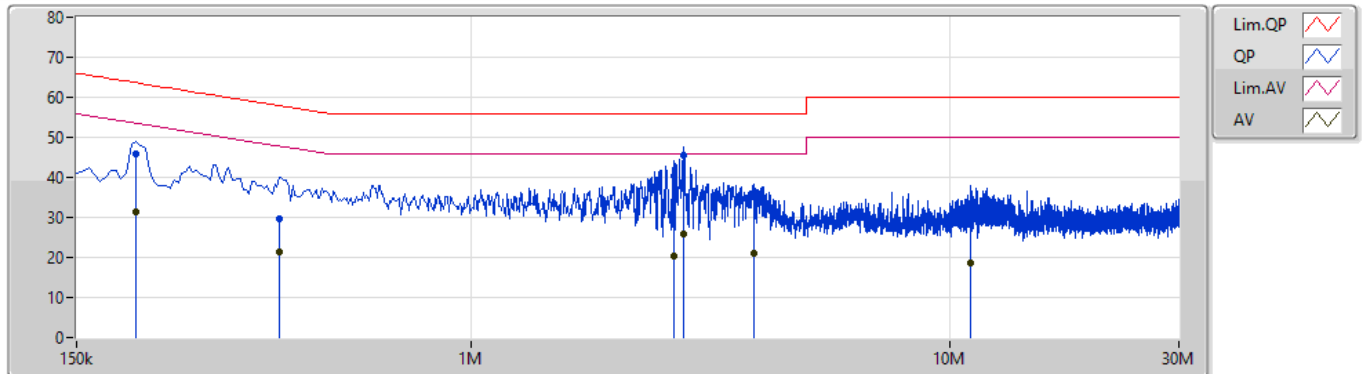
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 4	Pass	QP	2.783M	45.41	56.00	-10.59	9.99	Line

Mode 4

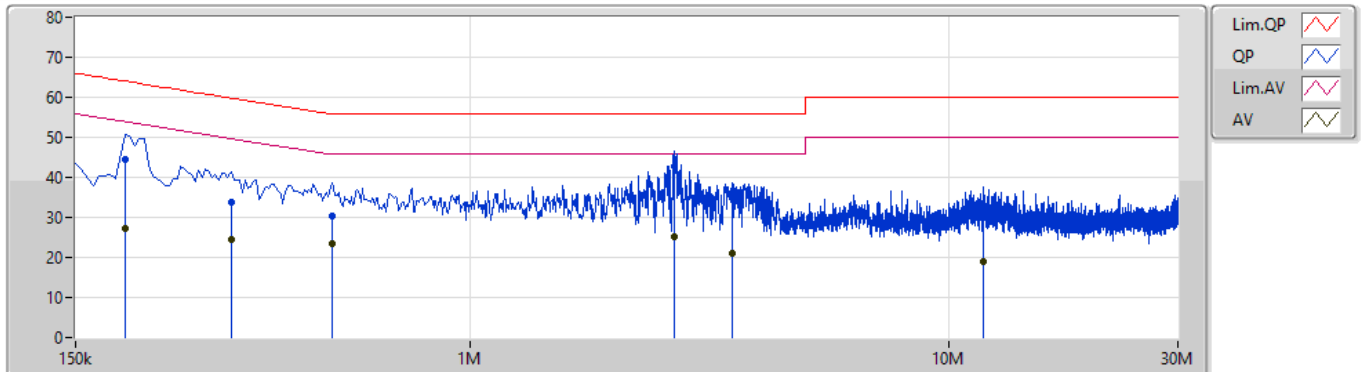
04/08/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	199.5k	45.88	63.63	-17.75	9.86	Line	-	36.02	0.04	0.03	9.79			
AV	199.5k	31.44	53.63	-22.19	9.86	Line	-	21.58	0.04	0.03	9.79			
QP	397.5k	29.65	57.91	-28.26	9.88	Line	-	19.77	0.04	0.03	9.81			
AV	397.5k	21.50	47.91	-26.41	9.88	Line	-	11.62	0.04	0.03	9.81			
QP	2.643M	40.41	56.00	-15.59	9.98	Line	-	30.43	0.07	0.09	9.82			
AV	2.643M	20.39	46.00	-25.61	9.98	Line	-	10.41	0.07	0.09	9.82			
QP	2.783M	45.41	56.00	-10.59	9.99	Line	"Worst"	35.42	0.07	0.10	9.82			
AV	2.783M	25.91	46.00	-20.09	9.99	Line	-	15.92	0.07	0.10	9.82			
QP	3.899M	35.34	56.00	-20.66	10.03	Line	-	25.31	0.09	0.13	9.81			
AV	3.899M	21.03	46.00	-24.97	10.03	Line	-	11.00	0.09	0.13	9.81			
QP	11.022M	30.00	60.00	-30.00	10.27	Line	-	19.73	0.18	0.17	9.92			
AV	11.022M	18.63	50.00	-31.37	10.27	Line	-	8.36	0.18	0.17	9.92			

Mode 4

04/08/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	190.5k	44.39	64.01	-19.62	9.86	Neutral	-	34.53	0.04	0.03	9.79			
AV	190.5k	27.14	54.01	-26.87	9.86	Neutral	-	17.28	0.04	0.03	9.79			
QP	316.5k	33.69	59.80	-26.11	9.87	Neutral	-	23.82	0.04	0.03	9.80			
AV	316.5k	24.54	49.80	-25.26	9.87	Neutral	-	14.67	0.04	0.03	9.80			
QP	514.5k	30.21	56.00	-25.79	9.89	Neutral	-	20.32	0.05	0.03	9.81			
AV	514.5k	23.51	46.00	-22.49	9.89	Neutral	-	13.62	0.05	0.03	9.81			
QP	2.661M	42.60	56.00	-13.40	9.99	Neutral	"Worst"	32.61	0.08	0.09	9.82			
AV	2.661M	25.08	46.00	-20.92	9.99	Neutral	-	15.09	0.08	0.09	9.82			
QP	3.534M	34.99	56.00	-21.01	10.02	Neutral	-	24.97	0.09	0.12	9.81			
AV	3.534M	21.04	46.00	-24.96	10.02	Neutral	-	11.02	0.09	0.12	9.81			
QP	11.783M	30.52	60.00	-29.48	10.28	Neutral	-	20.24	0.18	0.18	9.92			
AV	11.783M	18.81	50.00	-31.19	10.28	Neutral	-	8.53	0.18	0.18	9.92			

**For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.45M	16.792M	16M8D1D	21.18M	16.672M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.63M	19.13M	19M1D1D	21.15M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.541M	37M5D1D	39.84M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.08M	76.762M	76M8D1D	81.12M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.5M	44.408M	44M4D1D	16.29M	24.948M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.87M	46.027M	46M0D1D	18.63M	26.807M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.62M	70.645M	70M6D1D	36.06M	46.957M
802.11ax HEW80_Nss1,(MCS0)_4TX	75.6M	78.201M	78M2D1D	75.12M	77.361M

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;

**For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.24M	16.732M	21.45M	16.792M	21.33M	16.762M	21.3M	16.672M
5200MHz	Pass	Inf	21.21M	16.732M	21.3M	16.792M	21.24M	16.762M	21.3M	16.702M
5240MHz	Pass	Inf	21.18M	16.732M	21.33M	16.792M	21.33M	16.732M	21.33M	16.702M
5745MHz	Pass	500k	16.5M	24.948M	16.29M	28.396M	16.32M	35.922M	16.35M	30.645M
5785MHz	Pass	500k	16.32M	28.216M	16.32M	32.054M	16.35M	44.408M	16.35M	33.463M
5825MHz	Pass	500k	16.32M	25.817M	16.32M	29.085M	16.35M	35.472M	16.32M	30.885M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.54M	19.01M	21.45M	19.07M	21.51M	19.1M	21.6M	19.13M
5200MHz	Pass	Inf	21.51M	19.01M	21.42M	19.07M	21.48M	19.07M	21.63M	19.13M
5240MHz	Pass	Inf	21.15M	19.01M	21.33M	19.04M	21.57M	19.1M	21.48M	19.13M
5745MHz	Pass	500k	18.75M	26.807M	18.66M	31.154M	18.66M	40.12M	18.63M	32.804M
5785MHz	Pass	500k	18.66M	33.433M	18.66M	39.61M	18.66M	46.027M	18.69M	41.169M
5825MHz	Pass	500k	18.75M	28.996M	18.69M	32.744M	18.87M	42.549M	18.66M	33.973M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.541M	39.84M	37.541M	40.14M	37.481M	40.02M	37.541M
5230MHz	Pass	Inf	40.14M	37.541M	39.84M	37.481M	40.08M	37.541M	39.96M	37.541M
5755MHz	Pass	500k	37.14M	46.957M	37.62M	52.474M	37.38M	58.831M	36.84M	59.85M
5795MHz	Pass	500k	37.08M	59.19M	36.06M	62.909M	37.56M	68.306M	36.3M	70.645M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	76.762M	81.12M	76.762M	81.48M	76.762M	82.08M	76.762M
5775MHz	Pass	500k	75.36M	77.361M	75.6M	77.721M	75.24M	77.841M	75.12M	78.201M

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

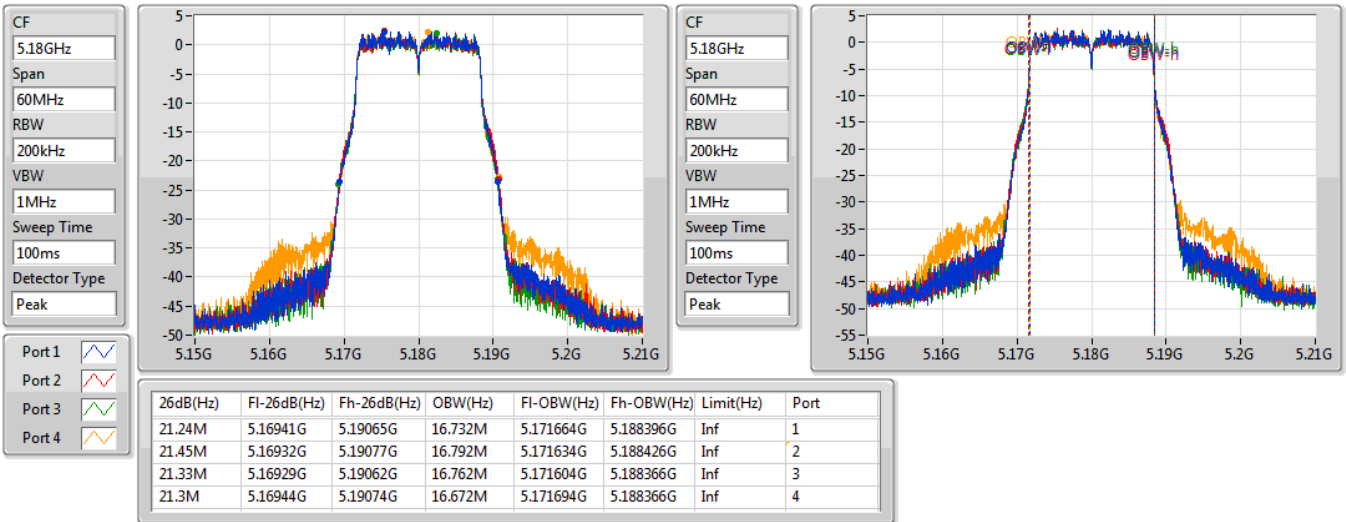
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5180MHz

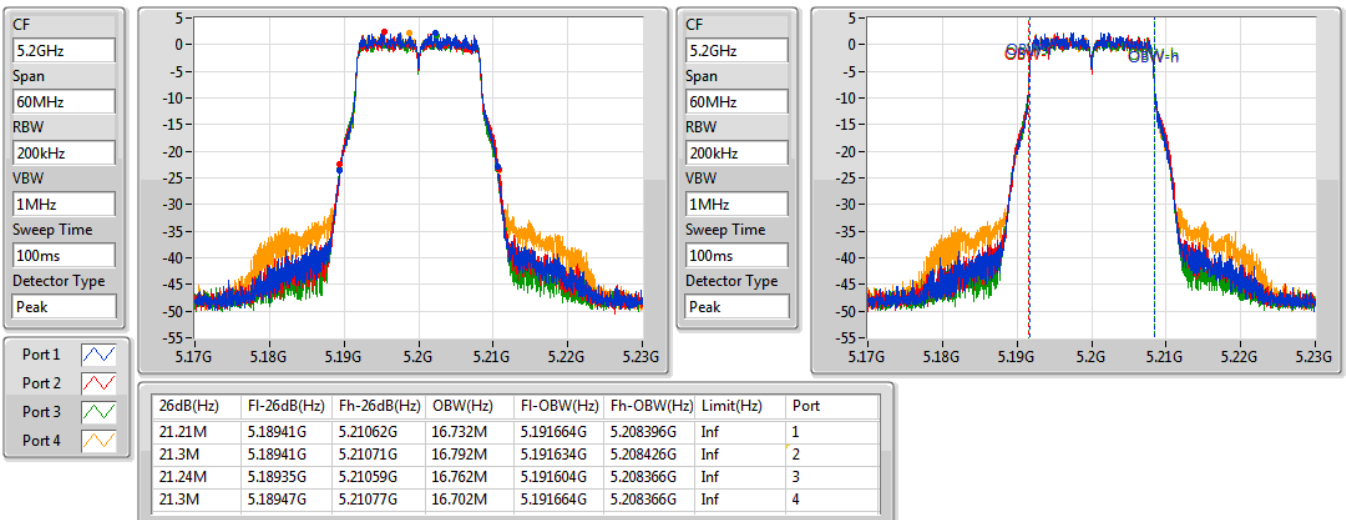
11/07/2020



802.11a_Nss1,(6Mbps)_4TX

5200MHz

11/07/2020

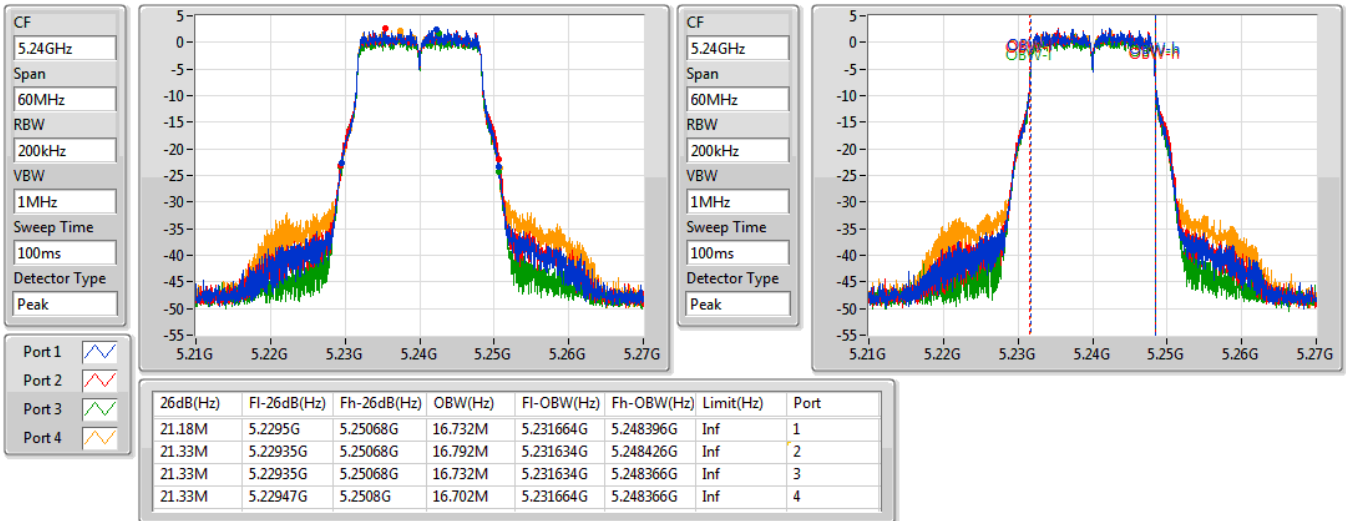


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5240MHz

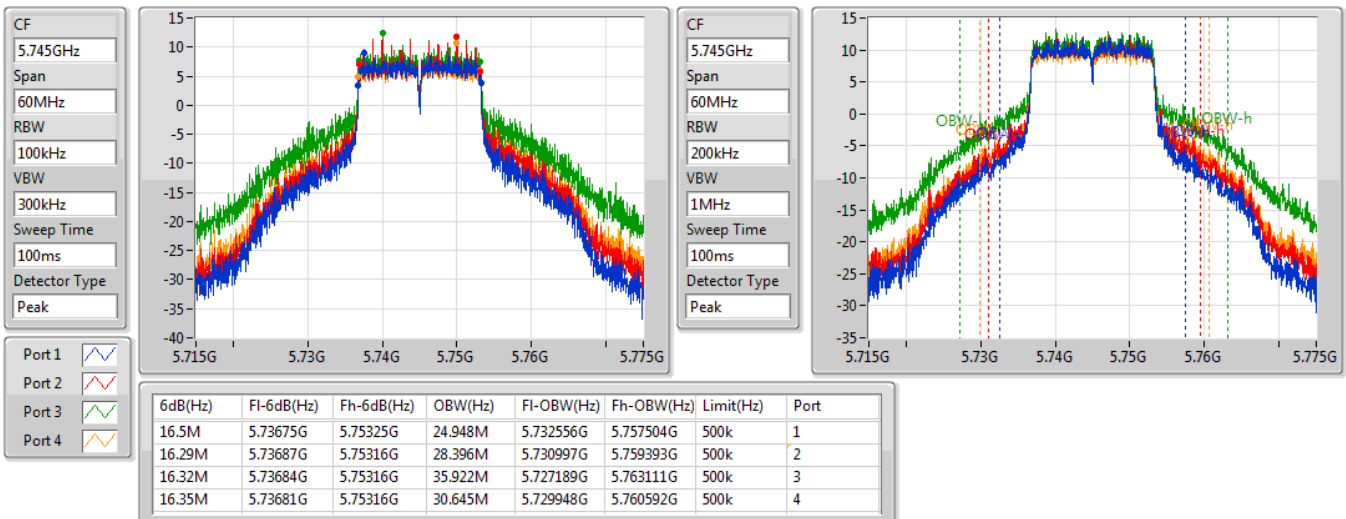
11/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5745MHz

08/07/2020

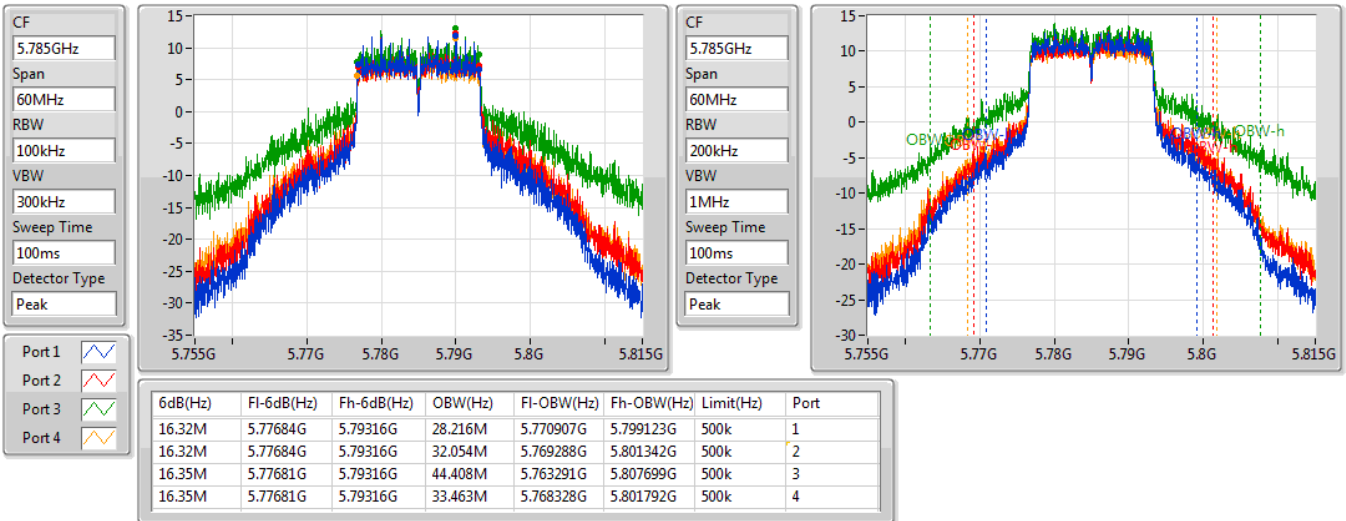


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5785MHz

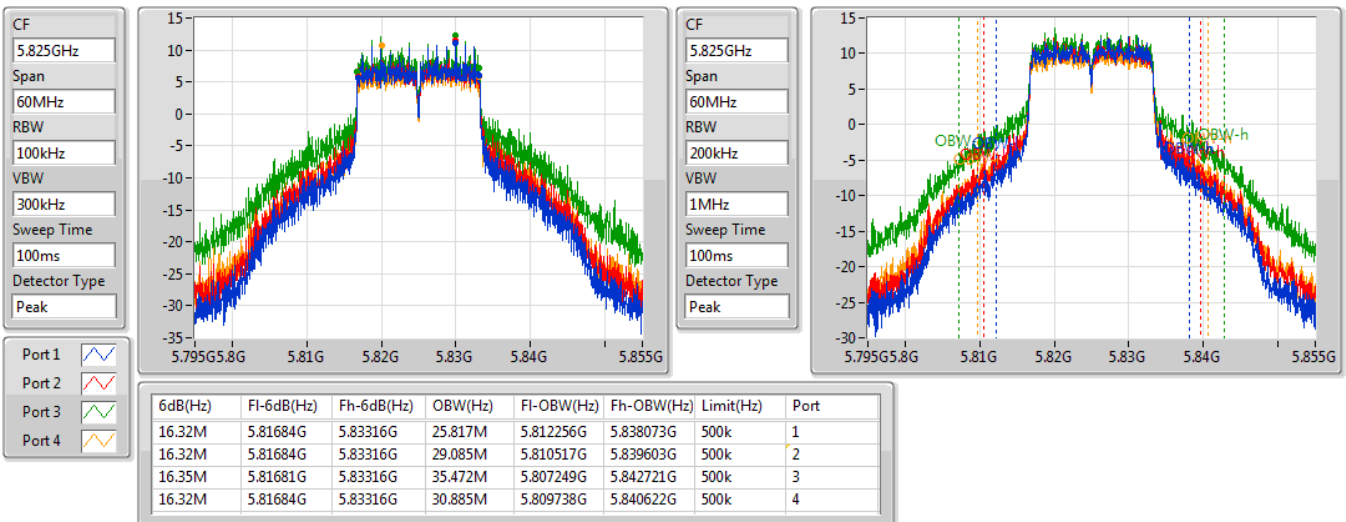
08/07/2020



802.11a_Nss1,(6Mbps)_4TX

5825MHz

08/07/2020

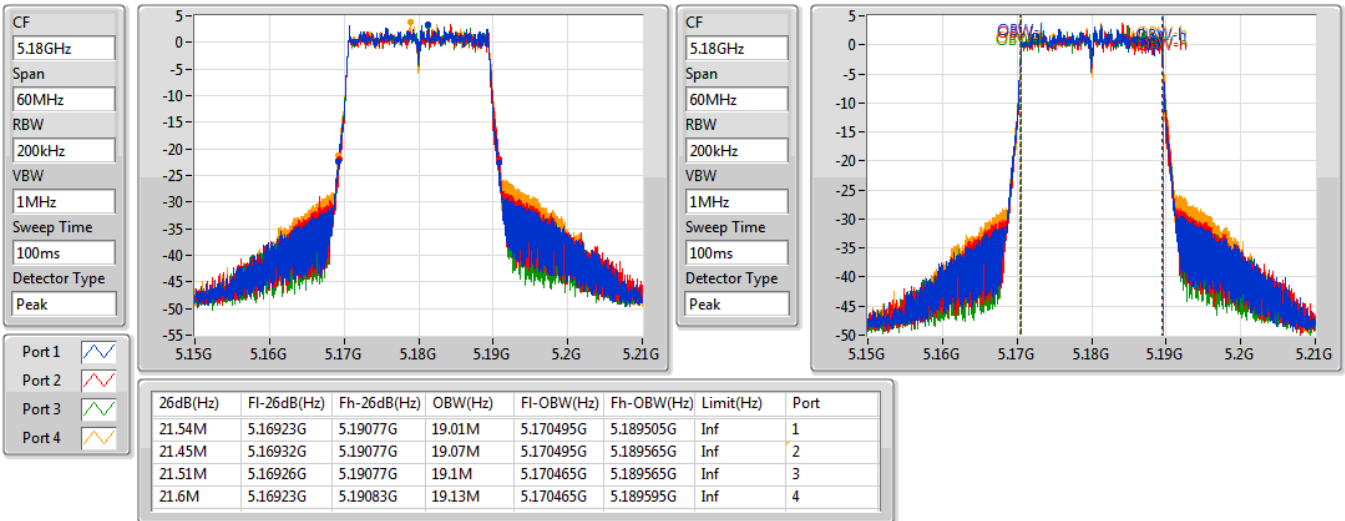


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5180MHz

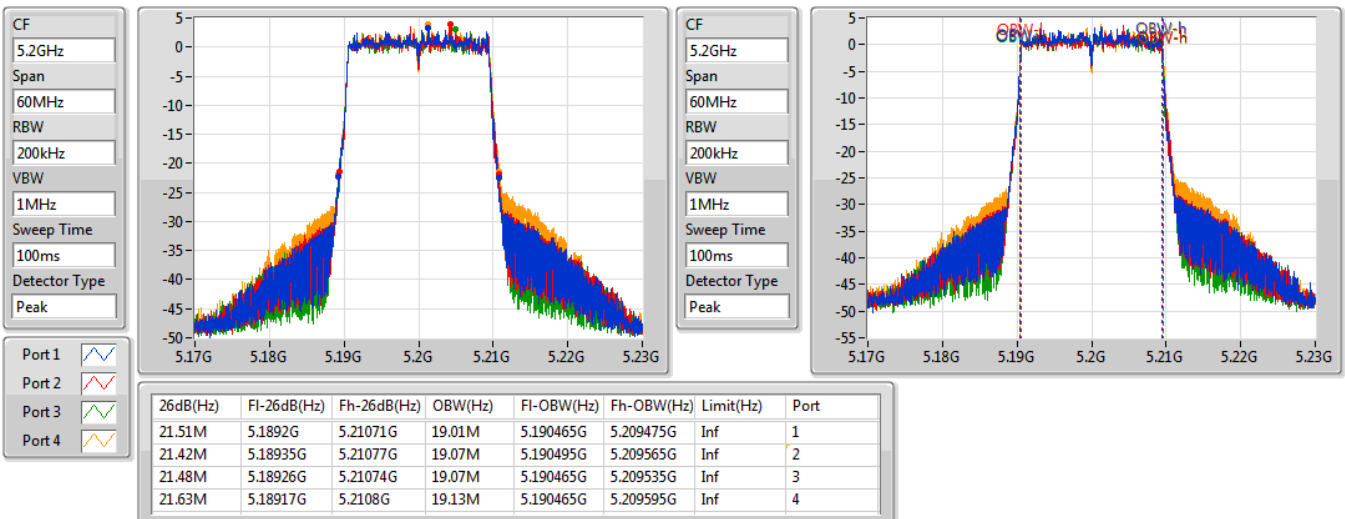
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5200MHz

11/07/2020

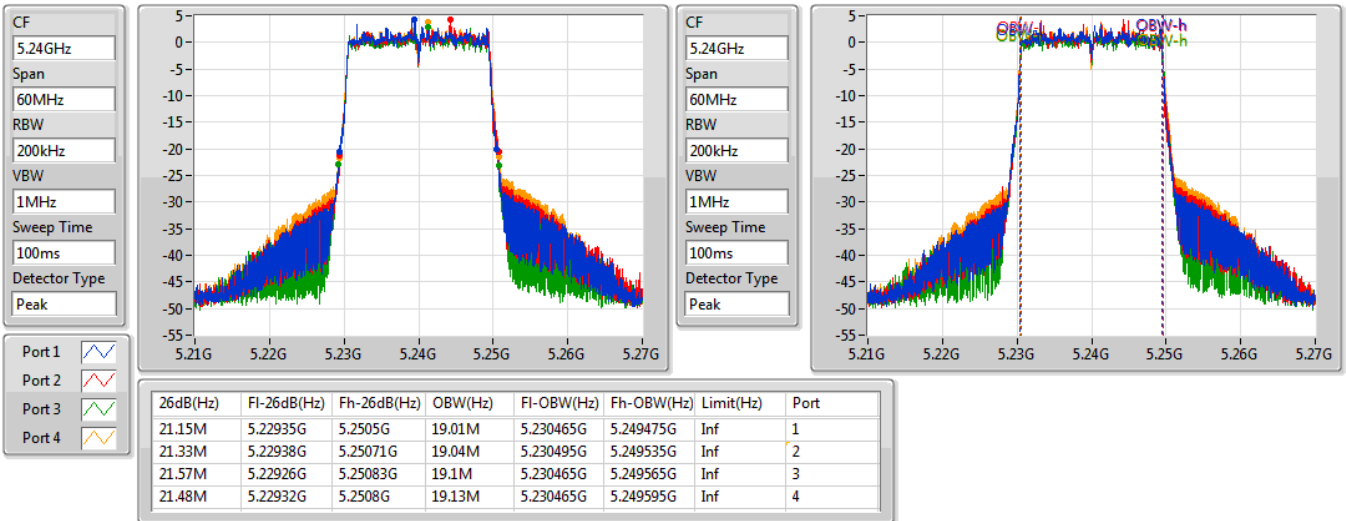


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

5240MHz

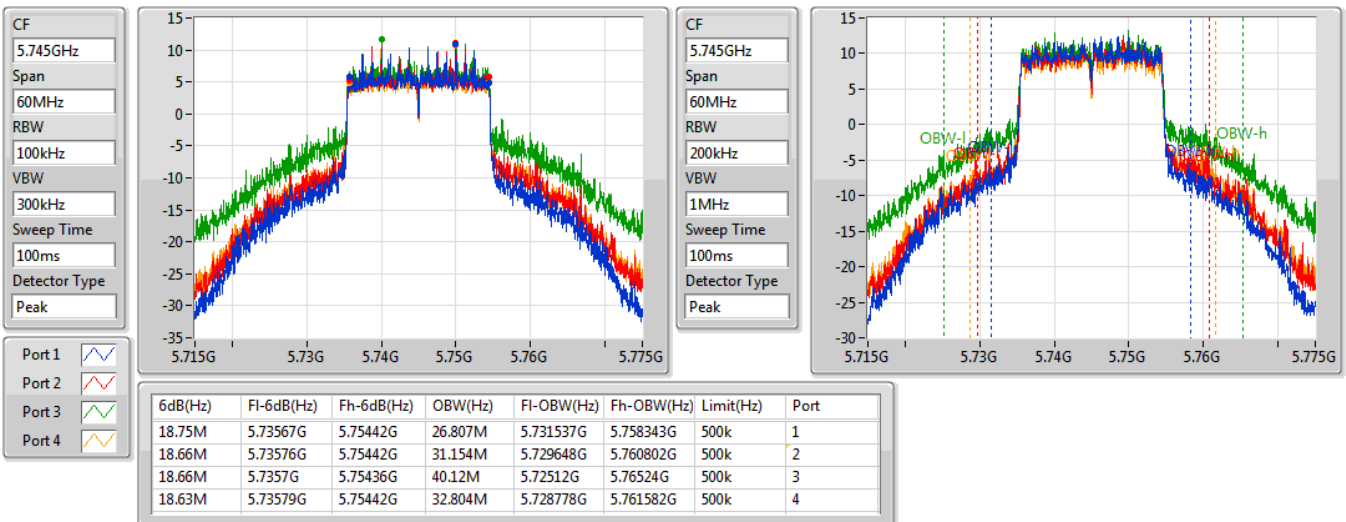
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

5745MHz

11/07/2020

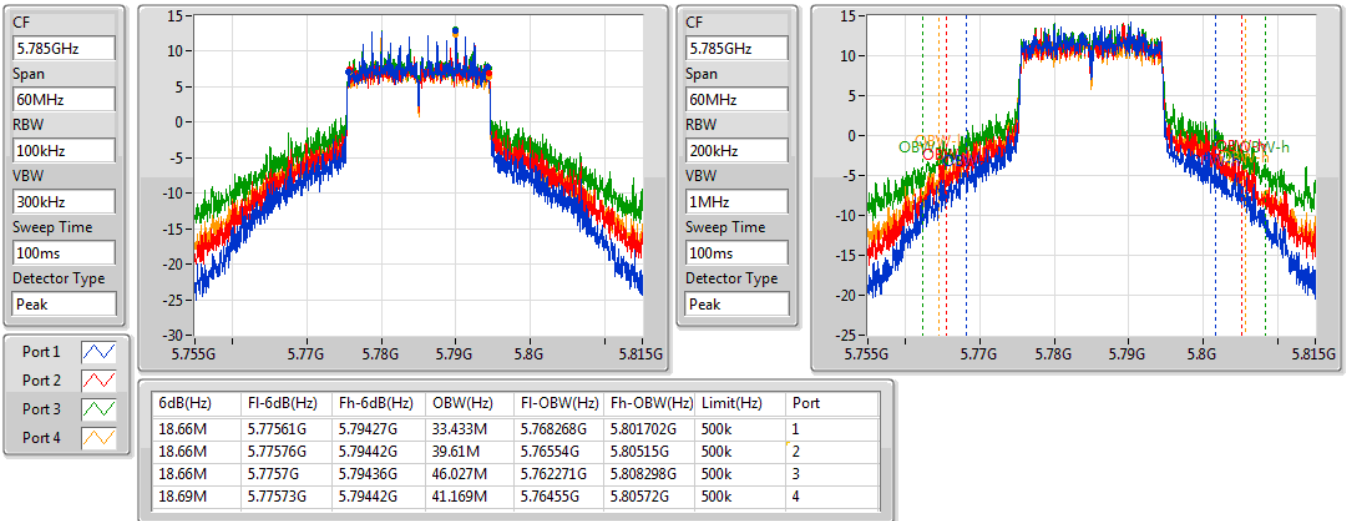


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5785MHz

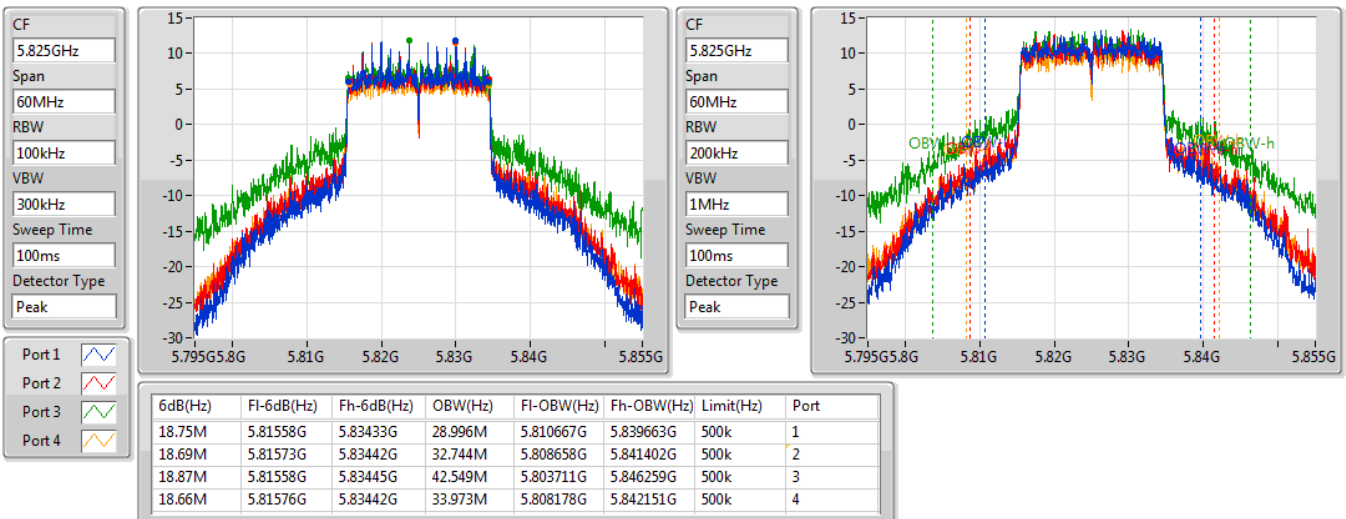
08/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5825MHz

08/07/2020



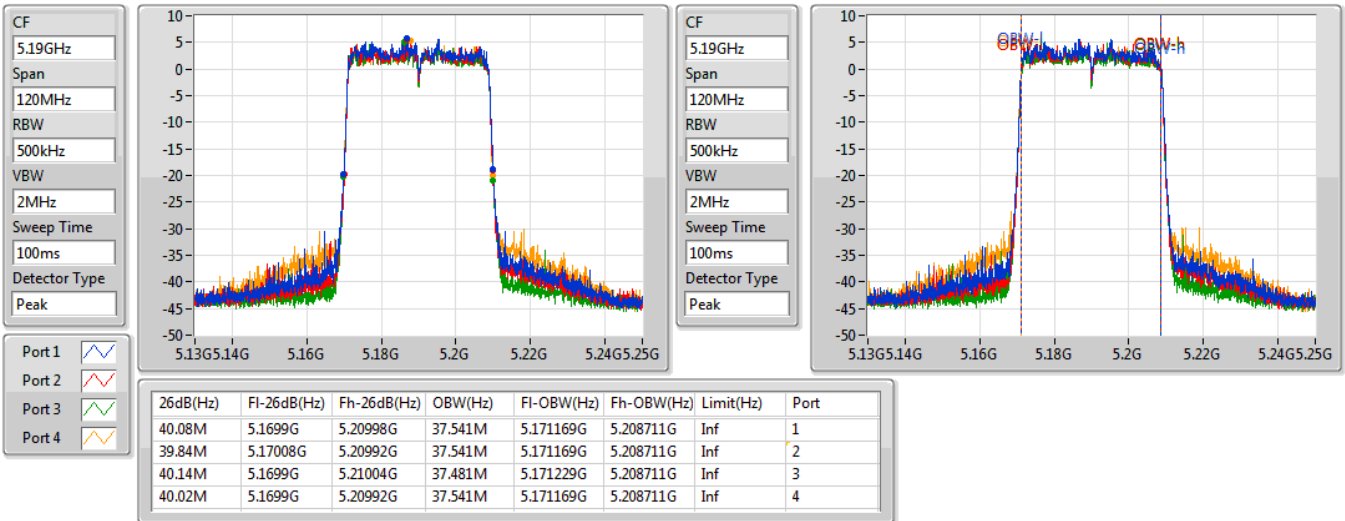
For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

11/07/2020

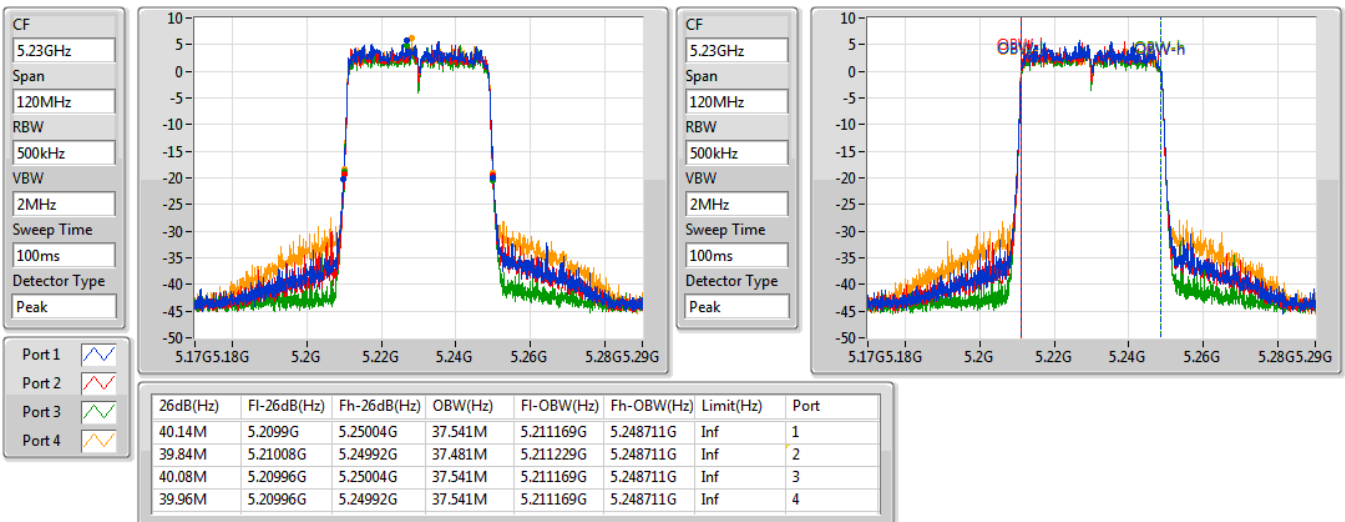


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

11/07/2020

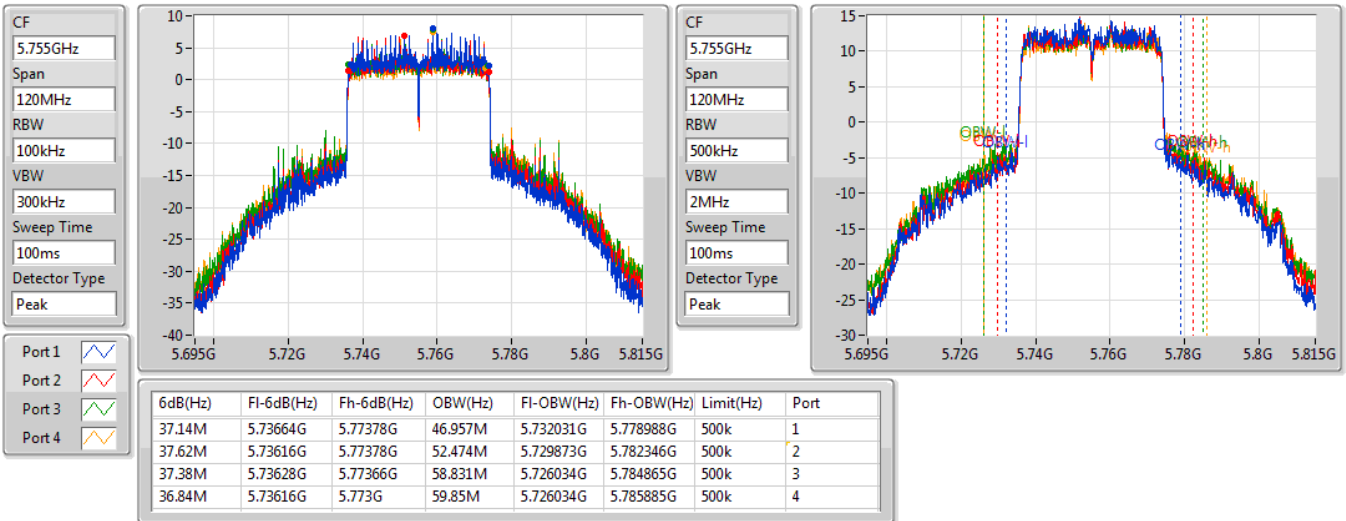


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5755MHz

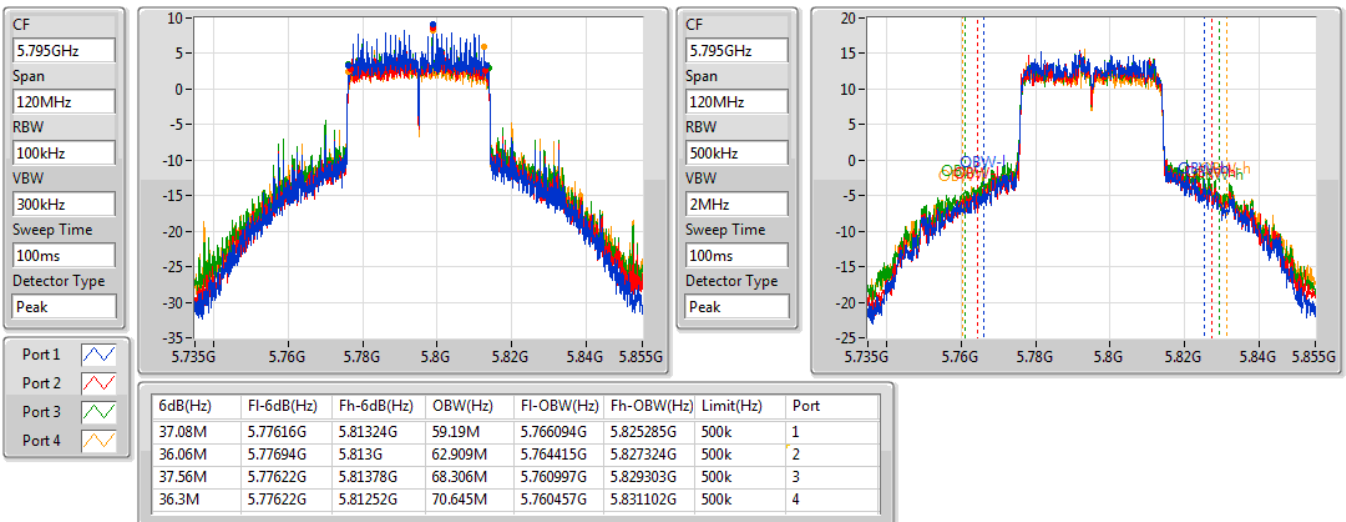
08/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5795MHz

08/07/2020

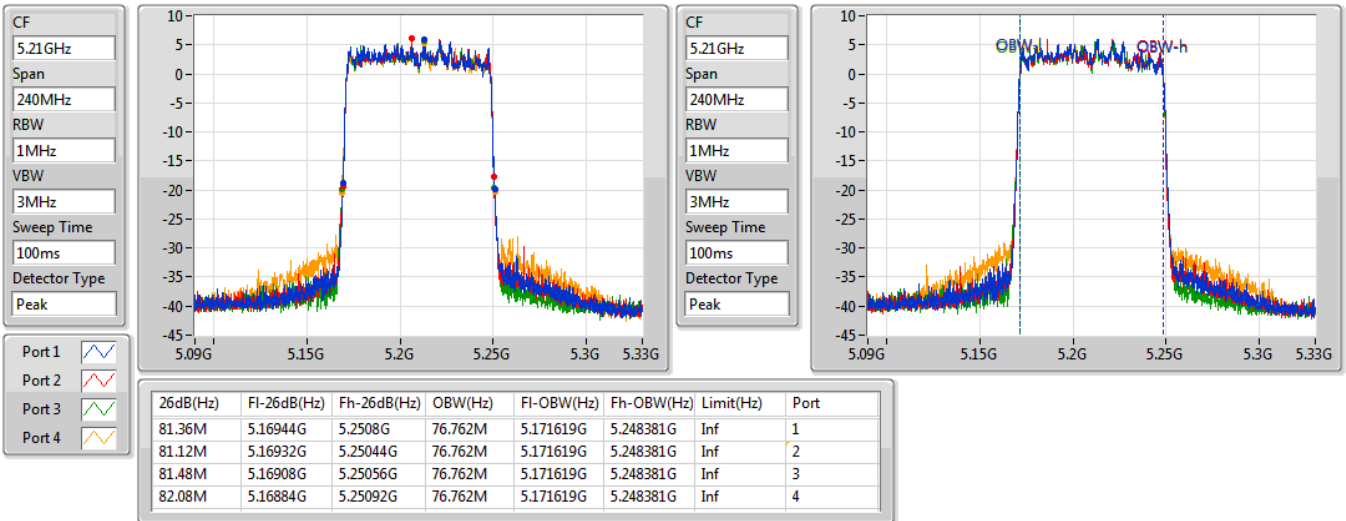


For EUT 1 / Radio 1 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5210MHz

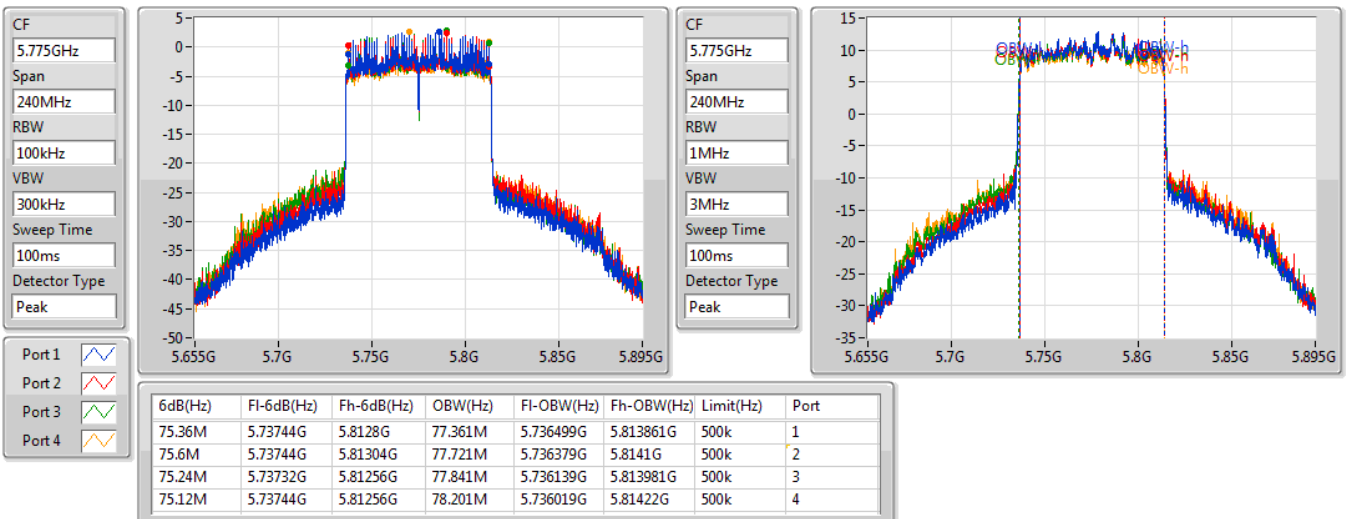
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802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5775MHz

08/07/2020



**For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.48M	16.792M	16M8D1D	21.15M	16.672M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.13M	19M1D1D	21.39M	18.981M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.661M	37M7D1D	39.78M	37.541M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.72M	76.762M	76M8D1D	81.12M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.45M	16.792M	16M8D1D	15.488M	13.346M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	19.13M	19M1D1D	15.628M	14.5M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.661M	37M7D1D	34.913M	33.658M
802.11ax HEW80_Nss1,(MCS0)_4TX	102.96M	77.121M	77M1D1D	81M	73.201M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.165M	4.348M	4M35D1D	3.15M	4.183M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.53M	4.798M	4M80D1D	4.44M	4.663M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.825M	7.421M	7M42D1D	3.6M	4.153M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.825M	25.427M	25M4D1D	3.57M	20.315M

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;

**For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.24M	16.732M	21.42M	16.792M	21.36M	16.762M	21.36M	16.672M
5300MHz	Pass	Inf	21.21M	16.732M	21.36M	16.792M	21.33M	16.762M	21.3M	16.672M
5320MHz	Pass	Inf	21.15M	16.732M	21.48M	16.792M	21.33M	16.762M	21.3M	16.672M
5500MHz	Pass	Inf	21.09M	16.732M	21.45M	16.792M	21.36M	16.762M	21.24M	16.672M
5580MHz	Pass	Inf	21.27M	16.732M	21.24M	16.792M	21.21M	16.762M	21.33M	16.672M
5700MHz	Pass	Inf	21.27M	16.762M	21.45M	16.792M	21.09M	16.792M	21.27M	16.672M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.488M	13.346M	15.645M	13.381M	15.733M	13.433M	15.575M	13.346M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	4.258M	3.165M	4.348M	3.15M	4.243M	3.165M	4.183M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.57M	18.981M	21.39M	19.04M	21.51M	19.07M	21.48M	19.1M
5300MHz	Pass	Inf	21.48M	19.01M	21.42M	19.04M	21.54M	19.07M	21.6M	19.13M
5320MHz	Pass	Inf	21.48M	18.981M	21.57M	19.04M	21.48M	19.07M	21.54M	19.1M
5500MHz	Pass	Inf	21.51M	19.01M	21.42M	19.07M	21.54M	19.1M	21.51M	19.1M
5580MHz	Pass	Inf	21.48M	19.01M	21.39M	19.07M	21.51M	19.07M	21.45M	19.1M
5700MHz	Pass	Inf	21.42M	19.01M	21.51M	19.04M	21.48M	19.07M	21.57M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.733M	14.5M	15.628M	14.5M	15.733M	14.535M	15.803M	14.535M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.663M	4.5M	4.723M	4.47M	4.723M	4.53M	4.798M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.14M	37.601M	39.9M	37.601M	40.02M	37.601M	40.08M	37.661M
5310MHz	Pass	Inf	40.08M	37.541M	39.78M	37.541M	39.96M	37.601M	39.9M	37.541M
5510MHz	Pass	Inf	40.08M	37.481M	39.84M	37.481M	40.14M	37.541M	39.96M	37.541M
5550MHz	Pass	Inf	40.14M	37.541M	39.84M	37.541M	40.02M	37.661M	40.02M	37.601M
5670MHz	Pass	Inf	40.2M	37.601M	39.84M	37.541M	40.08M	37.601M	40.02M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.063M	33.658M	34.913M	33.658M	34.95M	33.696M	35.1M	33.808M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.6M	4.153M	3.765M	4.153M	3.825M	4.318M	3.735M	7.421M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	76.762M	81.12M	76.762M	81.48M	76.762M	81.72M	76.762M
5530MHz	Pass	Inf	81.36M	76.762M	81M	76.762M	81.48M	76.762M	81.6M	76.762M
5610MHz	Pass	Inf	93.6M	77.001M	93.12M	77.001M	94.2M	77.121M	102.96M	77.121M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	88.815M	73.278M	88.815M	73.201M	91.605M	73.278M	98.735M	73.433M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.825M	20.315M	3.57M	23.448M	3.735M	24.708M	3.57M	25.427M

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

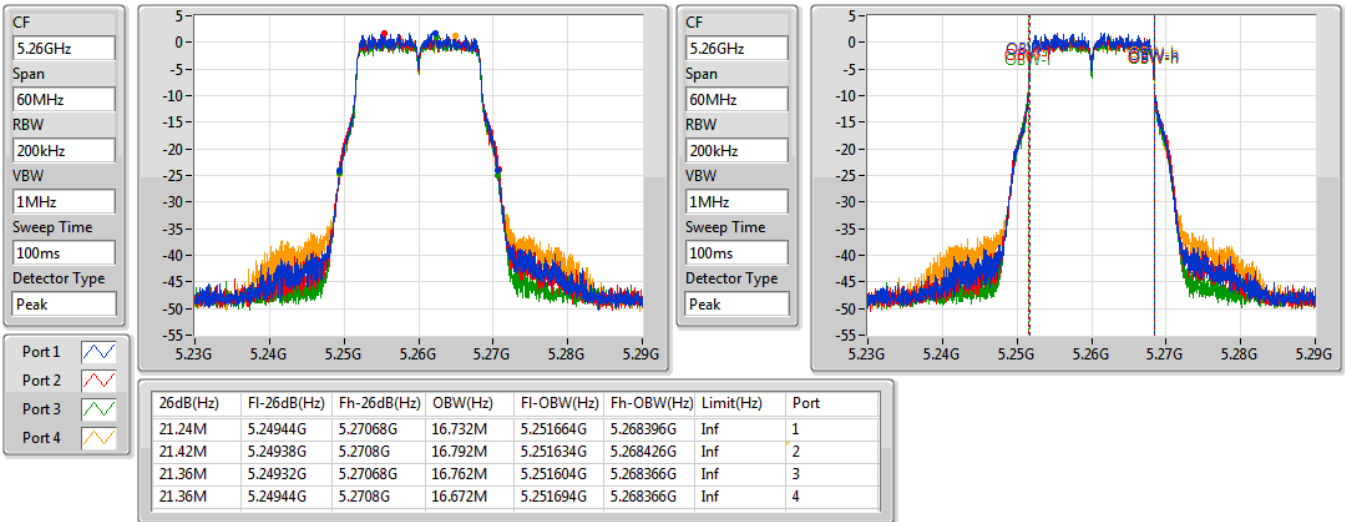
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5260MHz

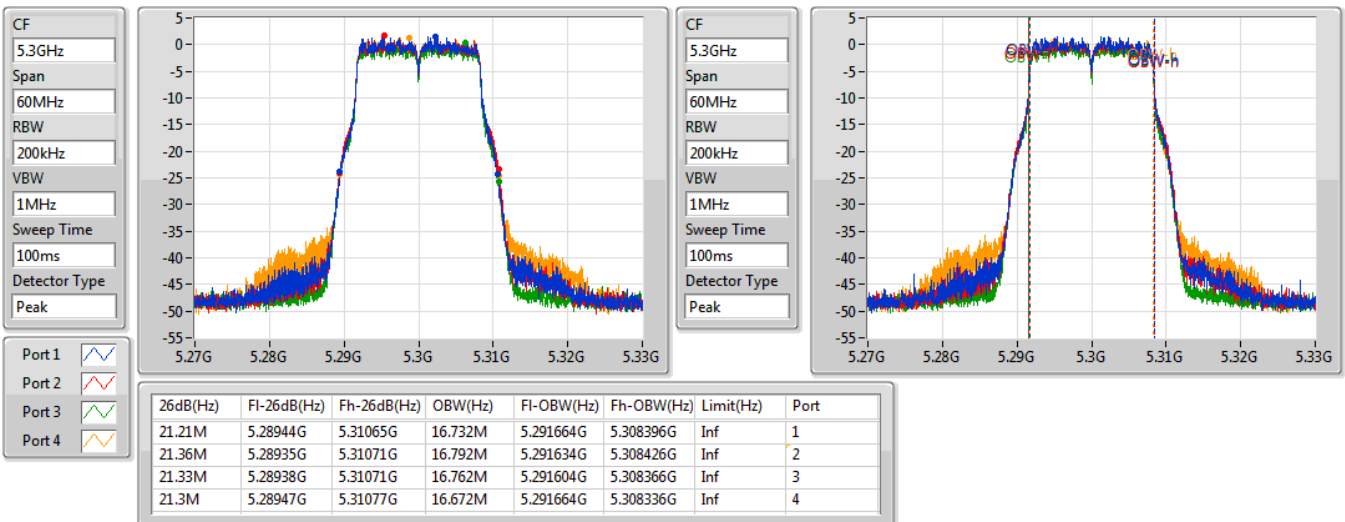
11/07/2020



802.11a_Nss1,(6Mbps)_4TX

5300MHz

11/07/2020

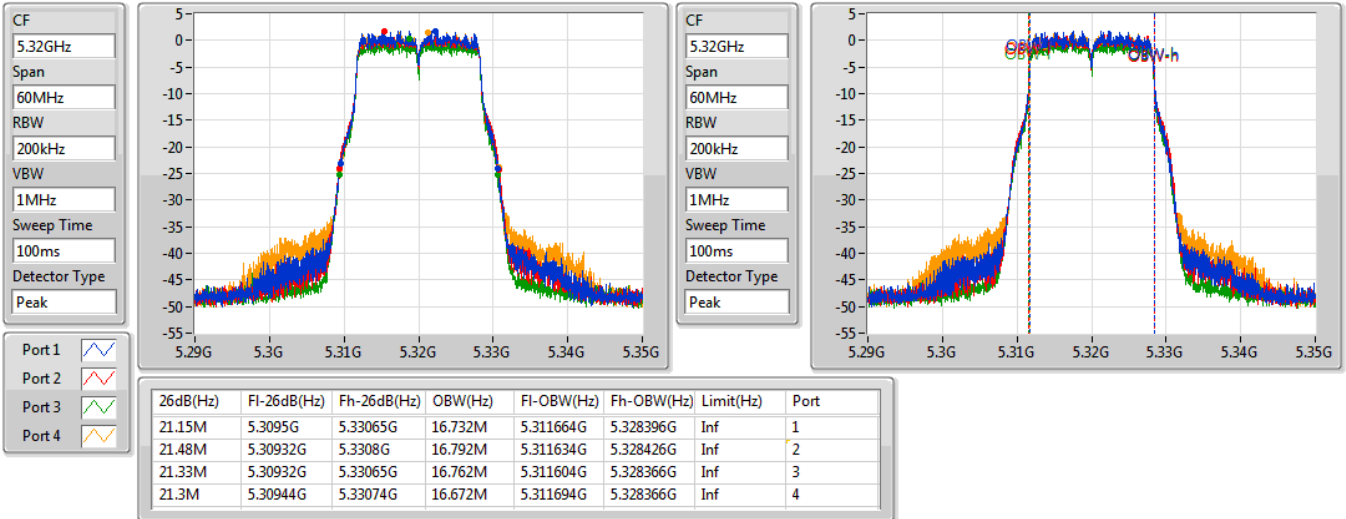


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5320MHz

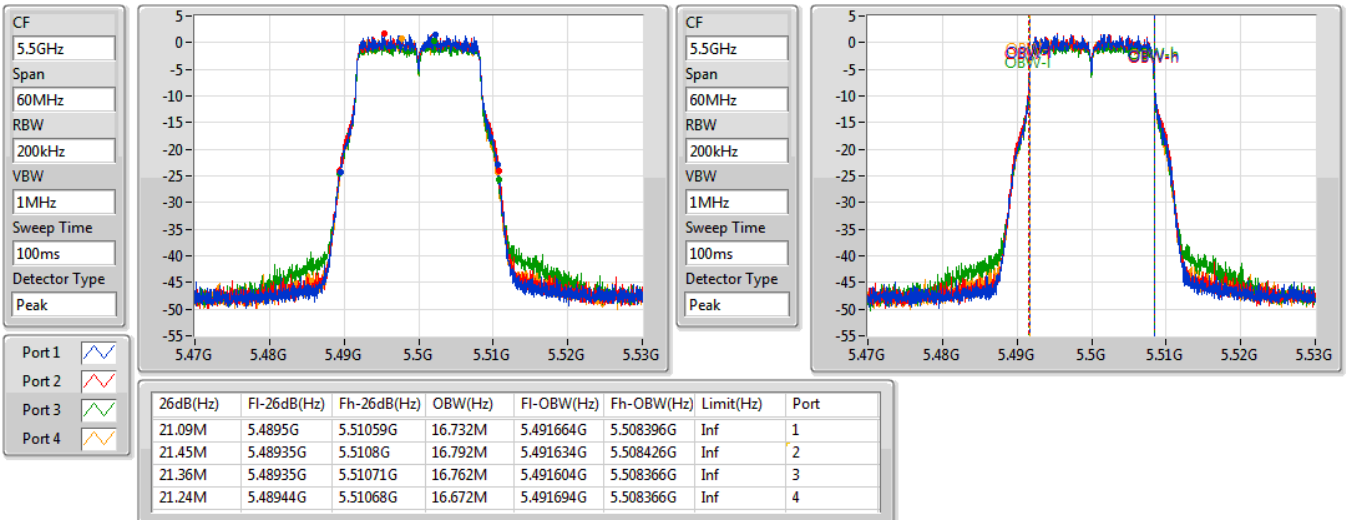
11/07/2020



802.11a_Nss1,(6Mbps)_4TX

5500MHz

11/07/2020

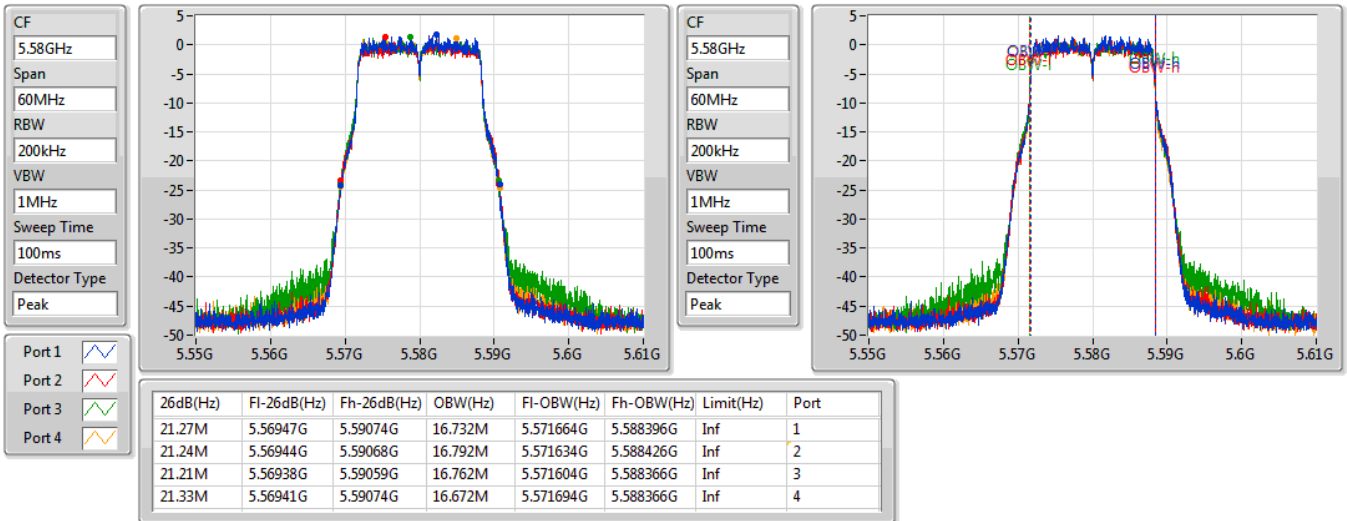


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5580MHz

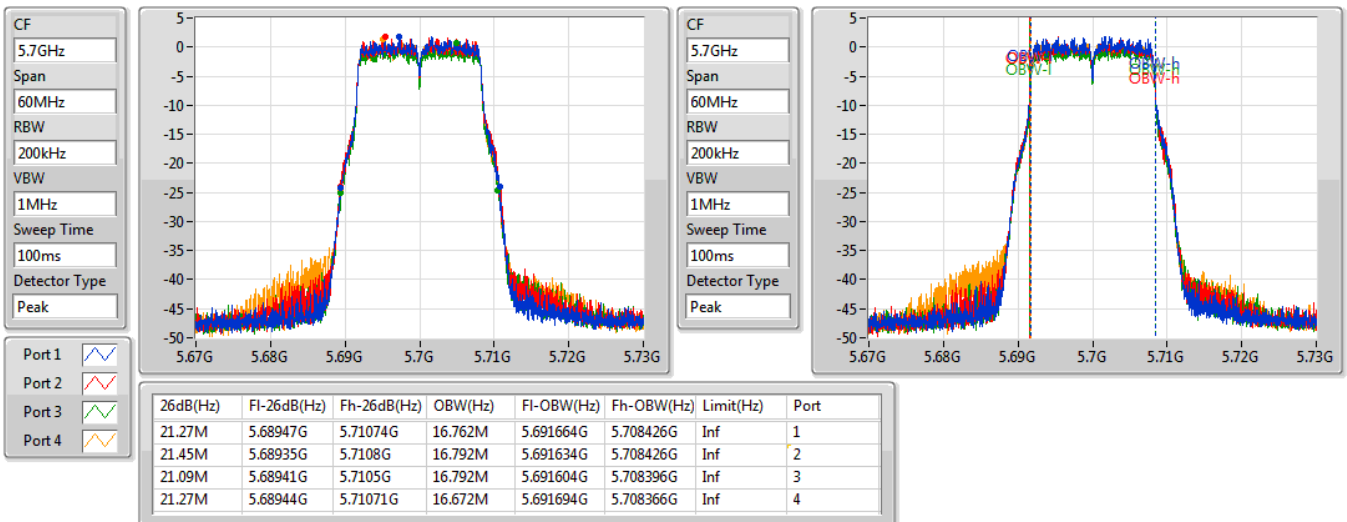
11/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5700MHz

11/07/2020



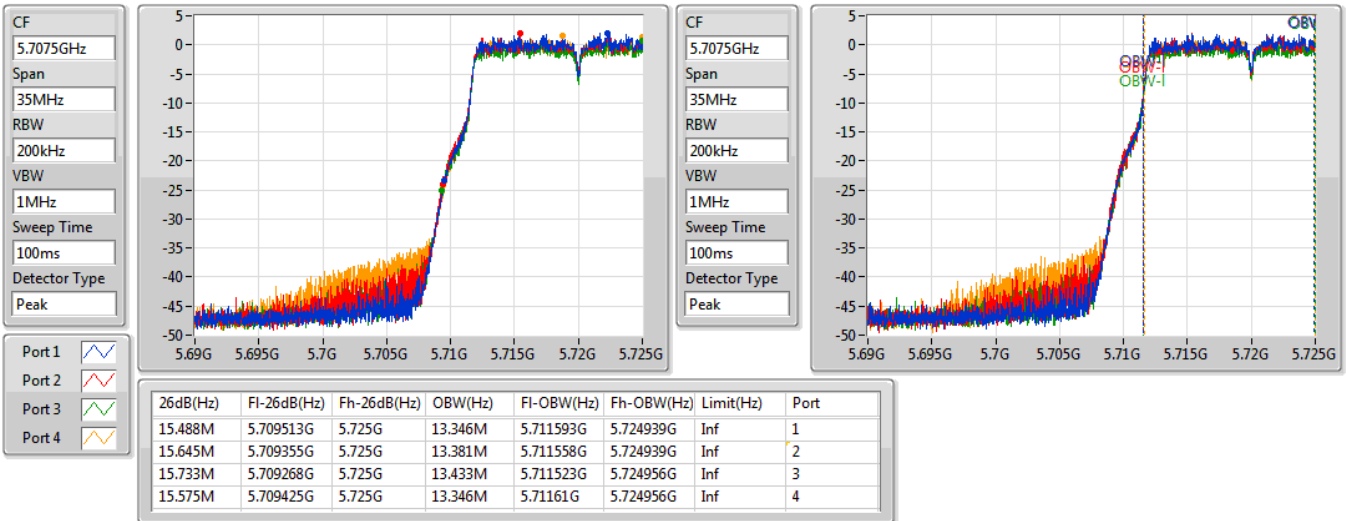
For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

11/07/2020

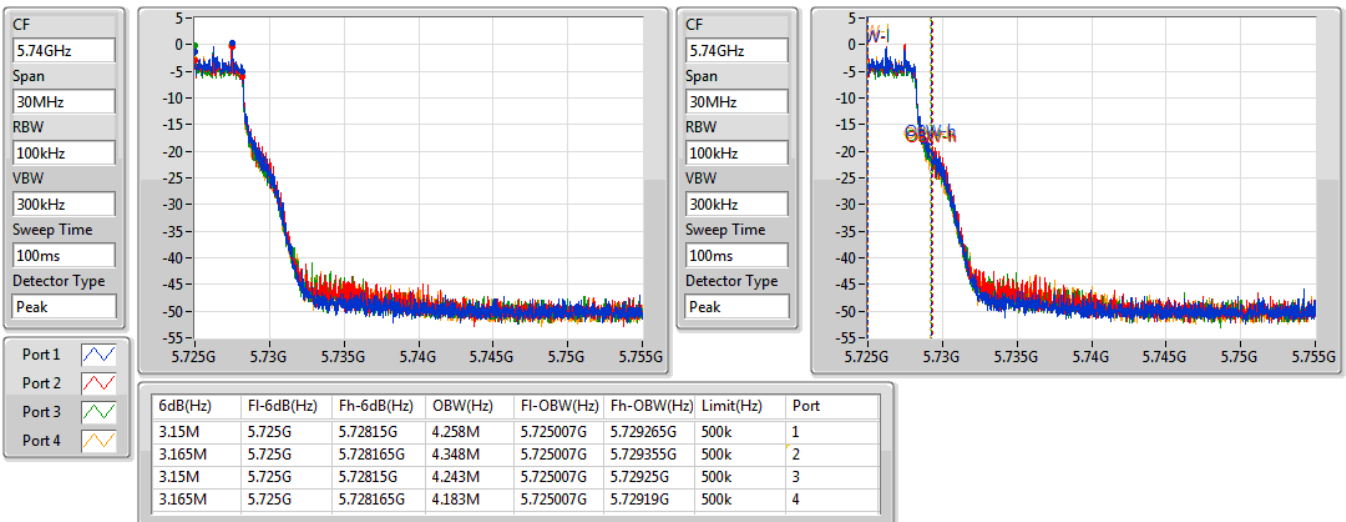


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

11/07/2020

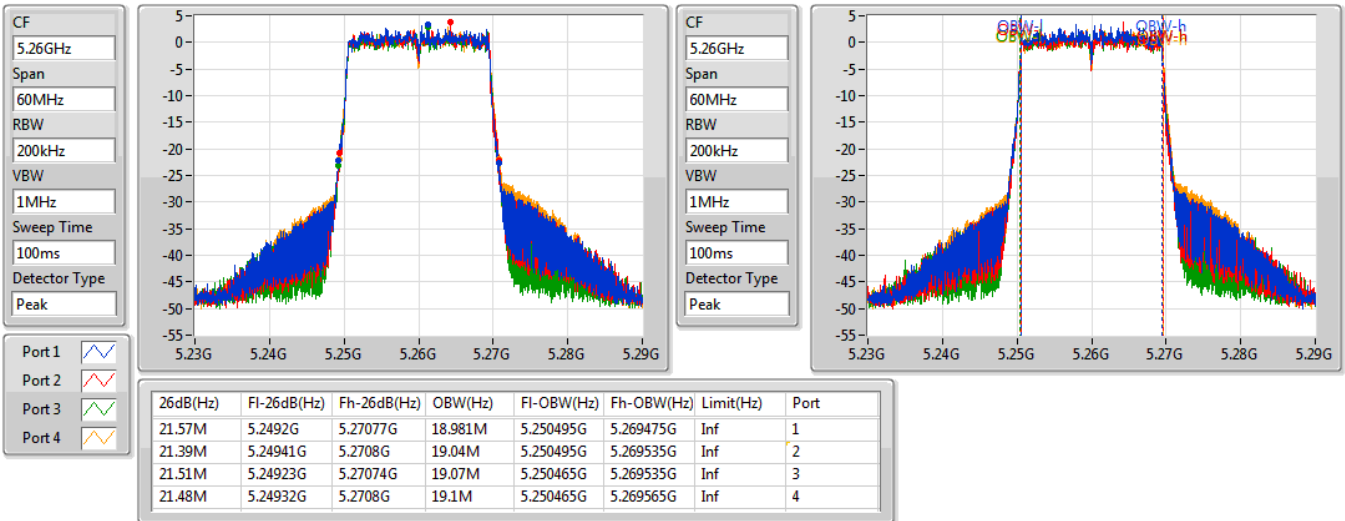


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

5260MHz

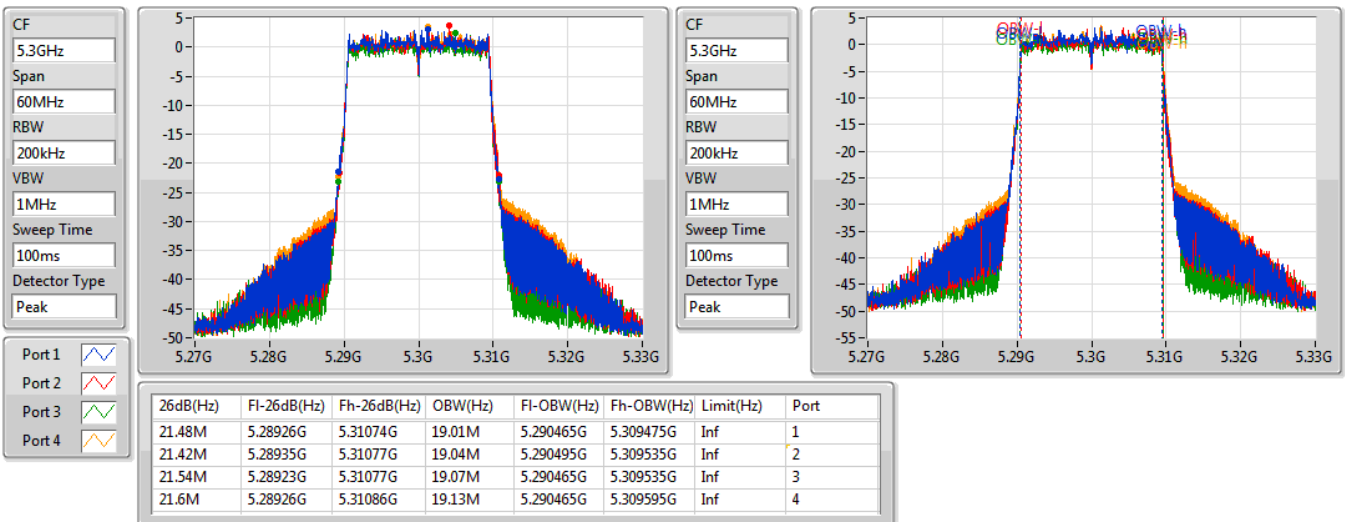
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

5300MHz

11/07/2020

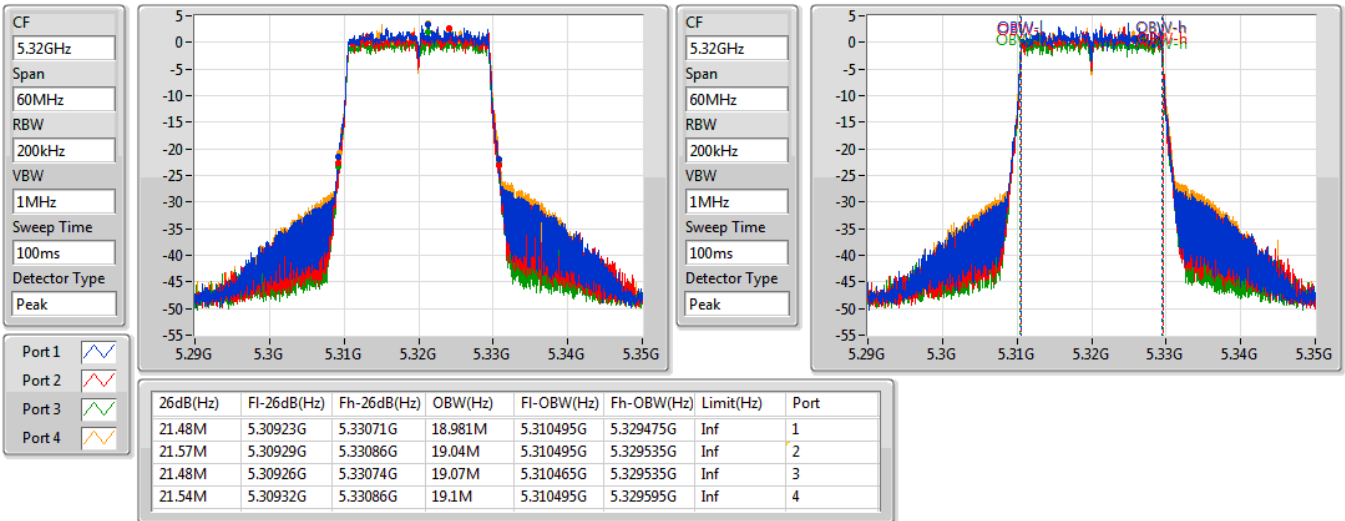


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5320MHz

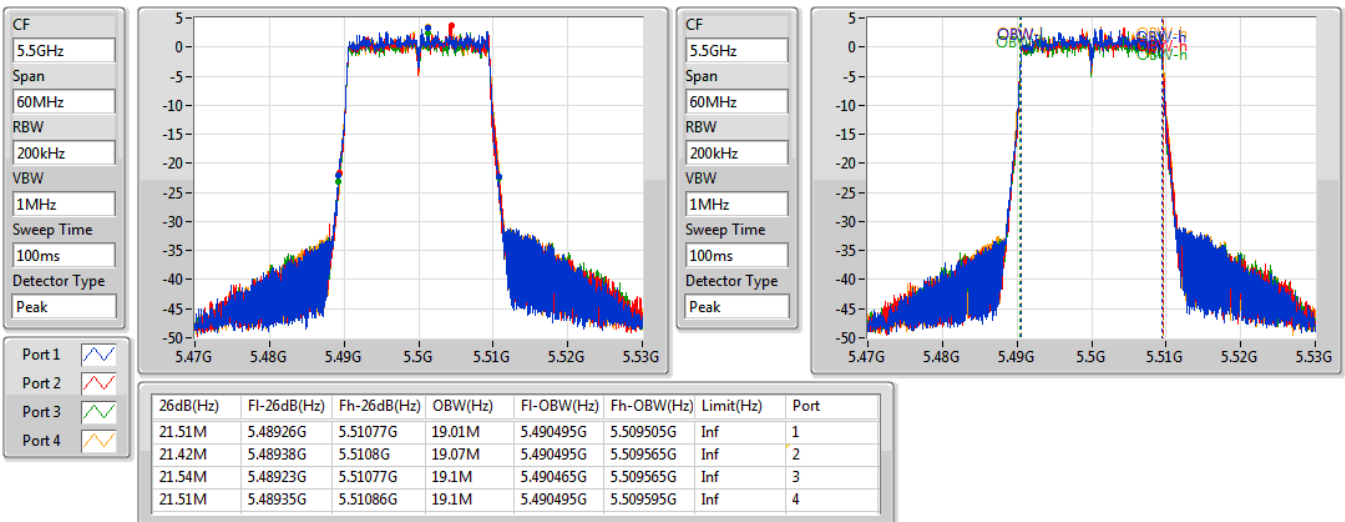
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5500MHz

11/07/2020

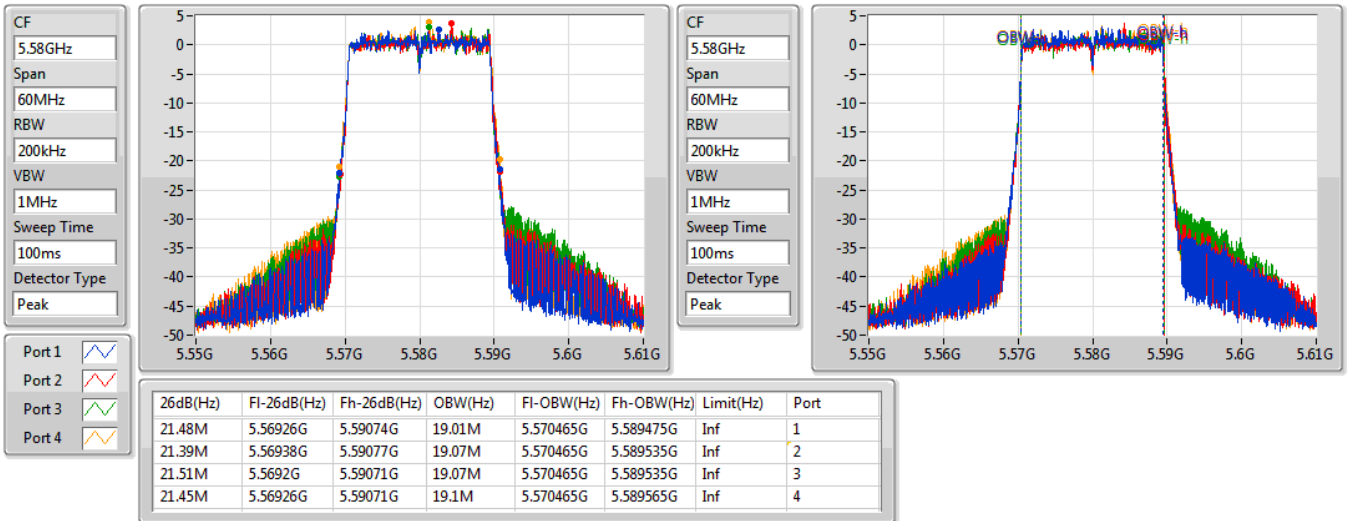


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5580MHz

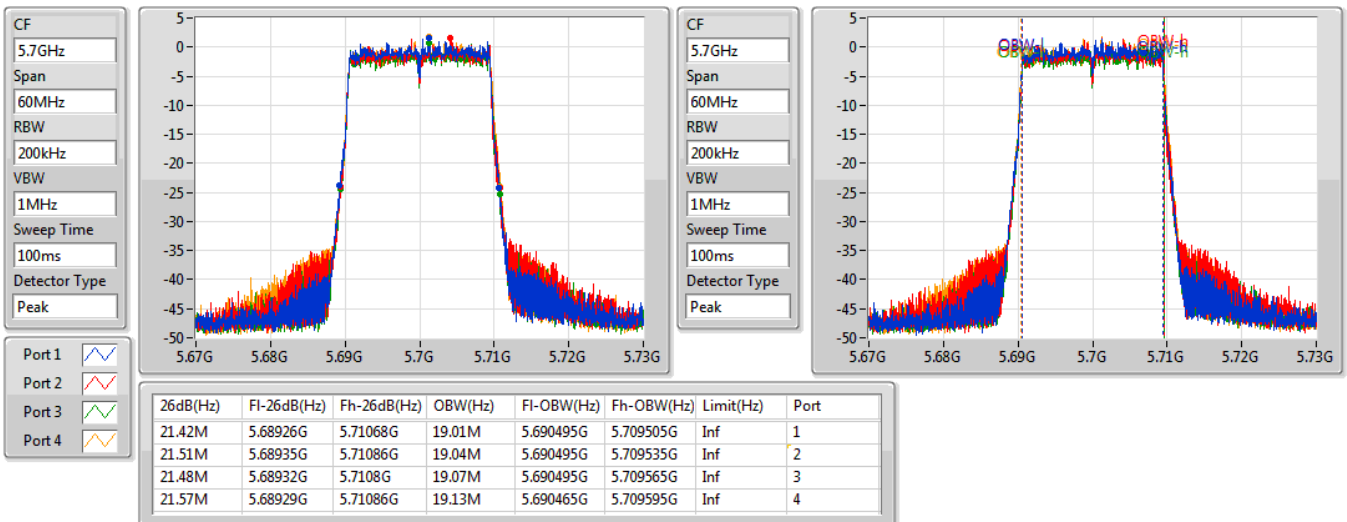
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5700MHz

11/07/2020



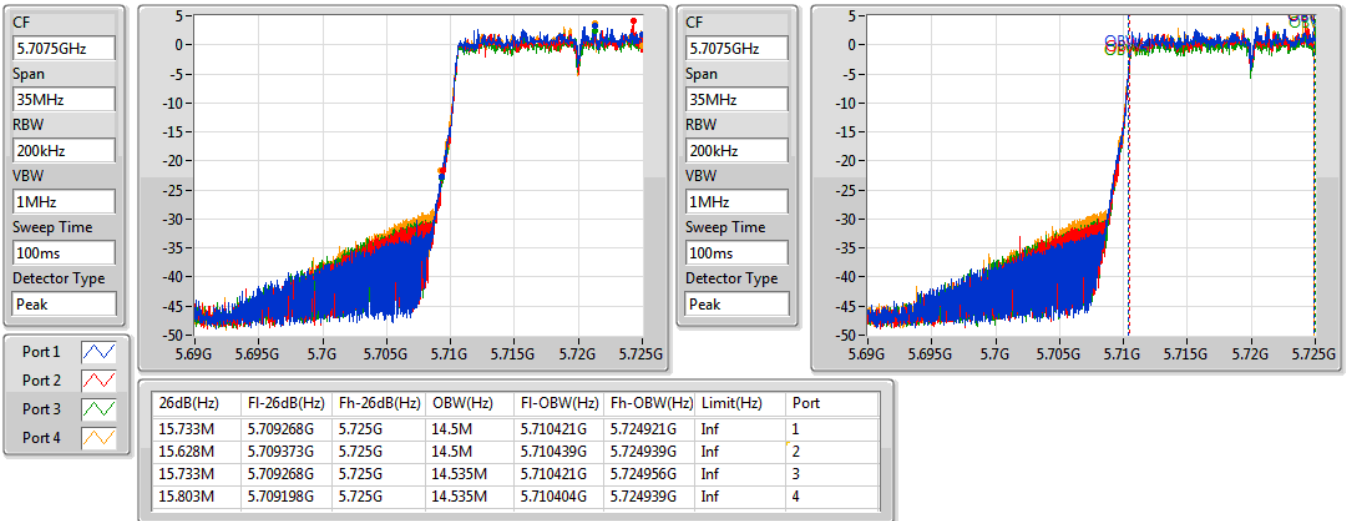
For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

11/07/2020

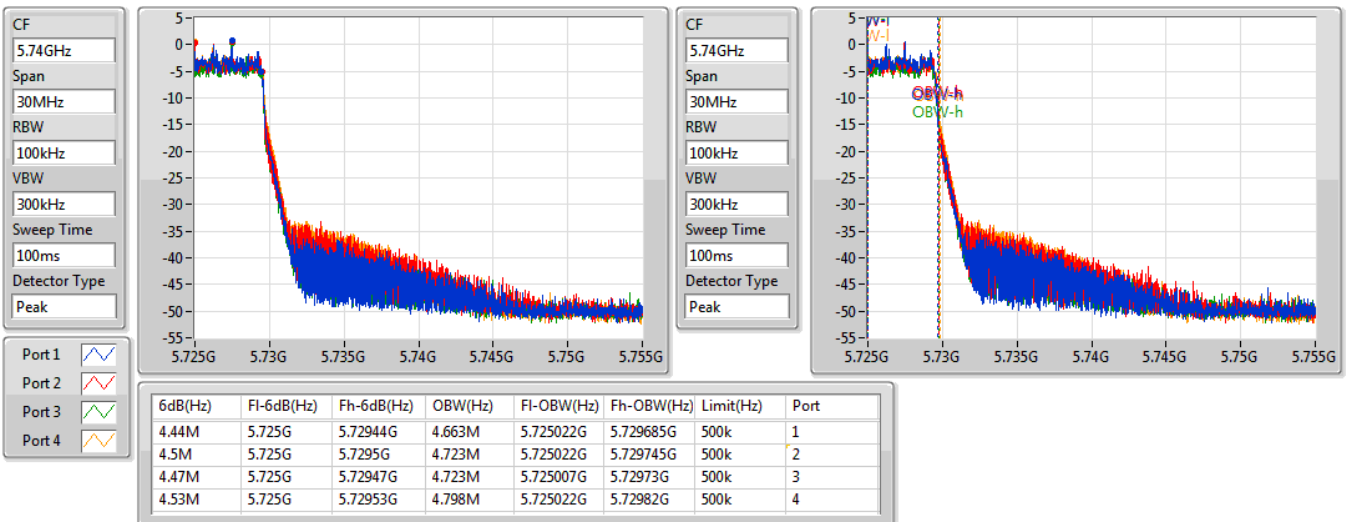


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

11/07/2020

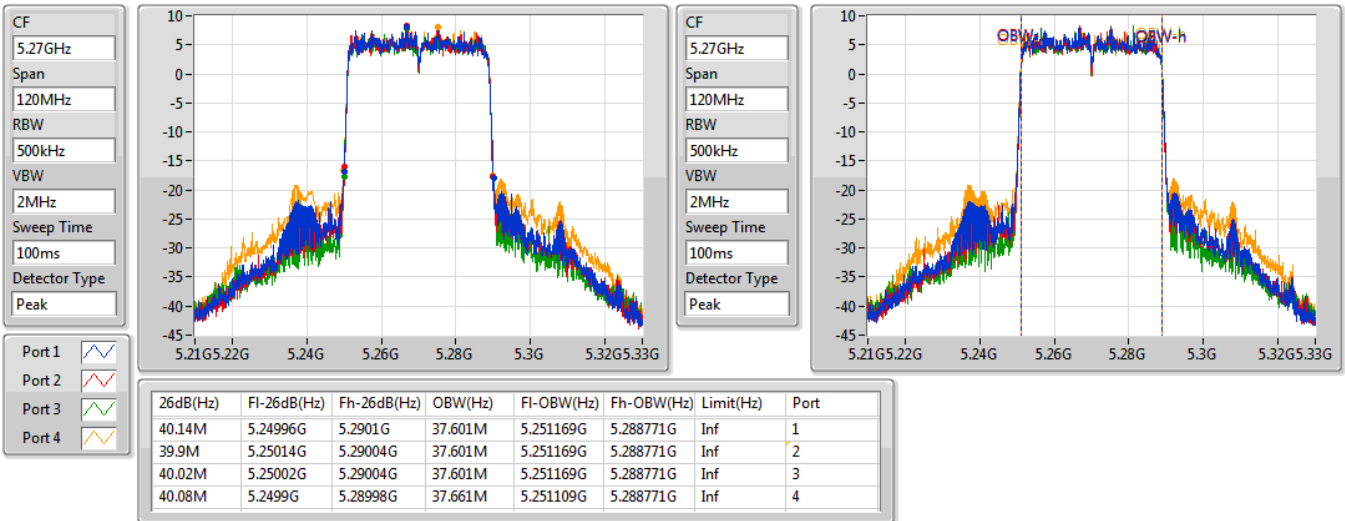


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5270MHz

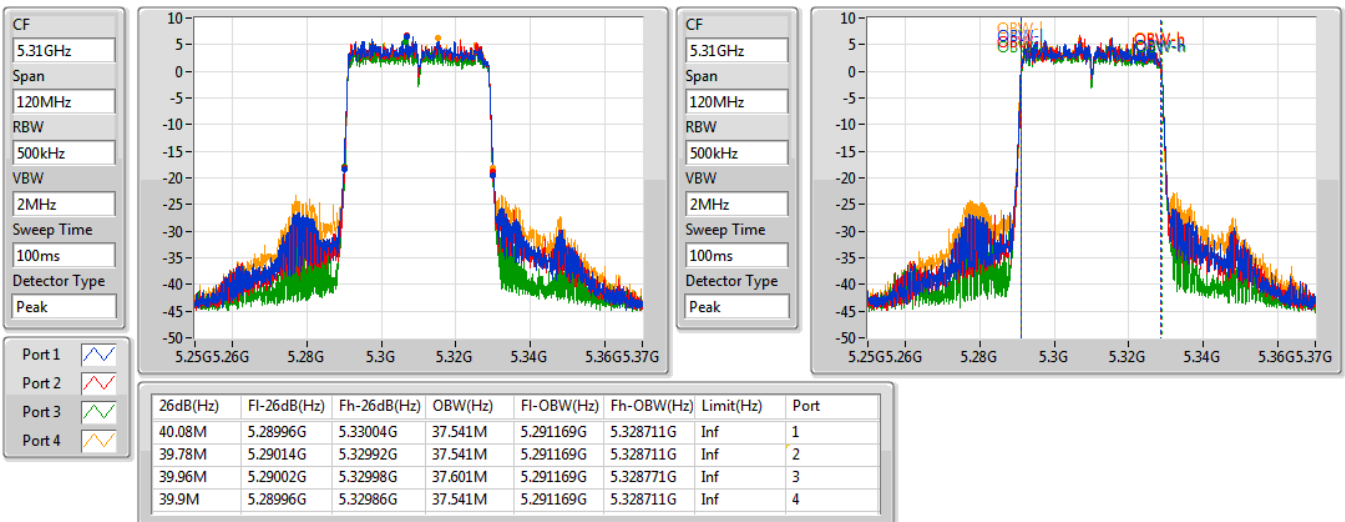
11/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5310MHz

11/07/2020

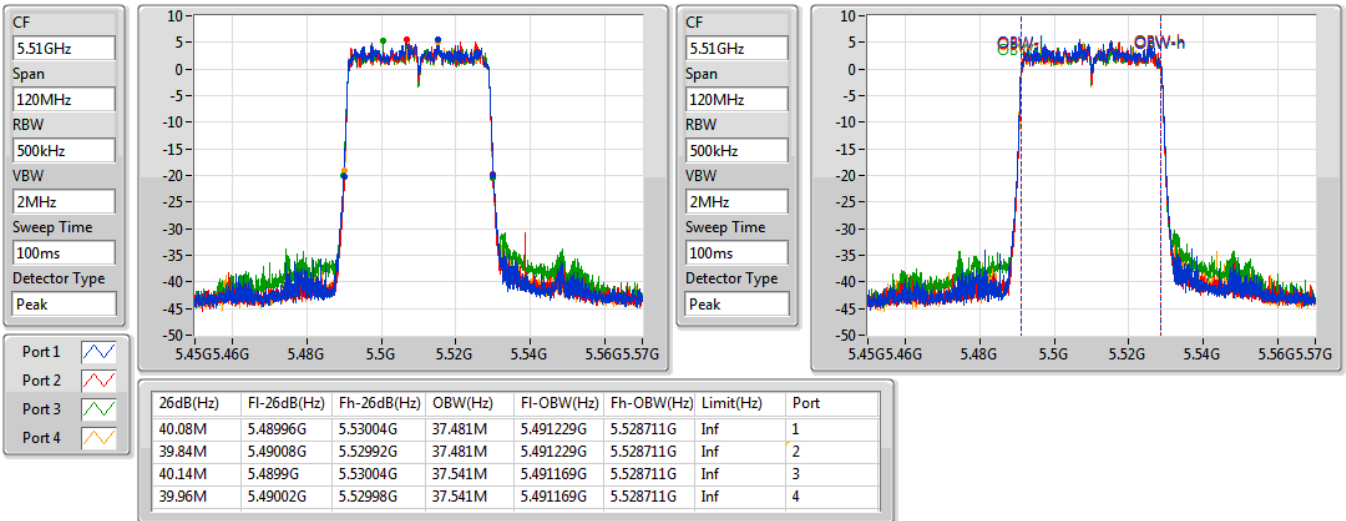


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5510MHz

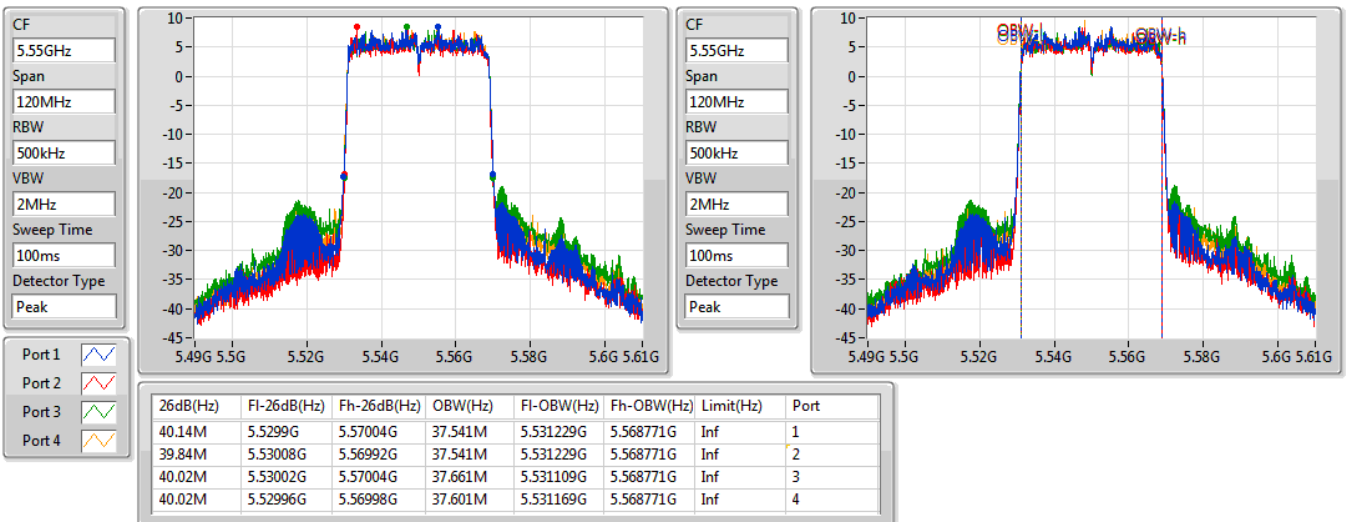
11/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5550MHz

11/07/2020

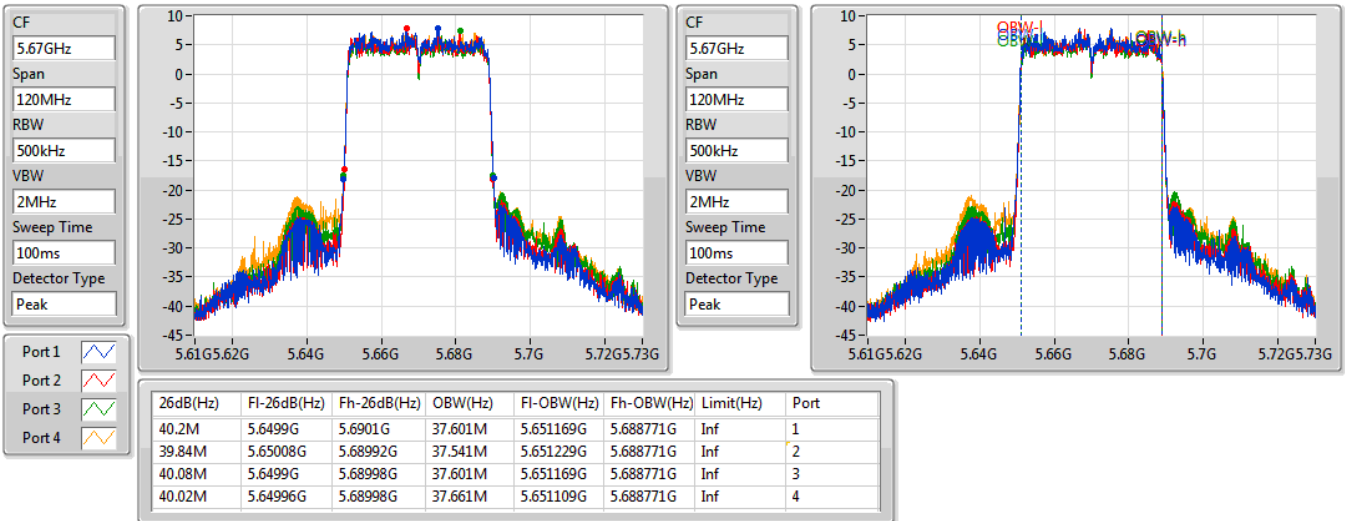


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5670MHz

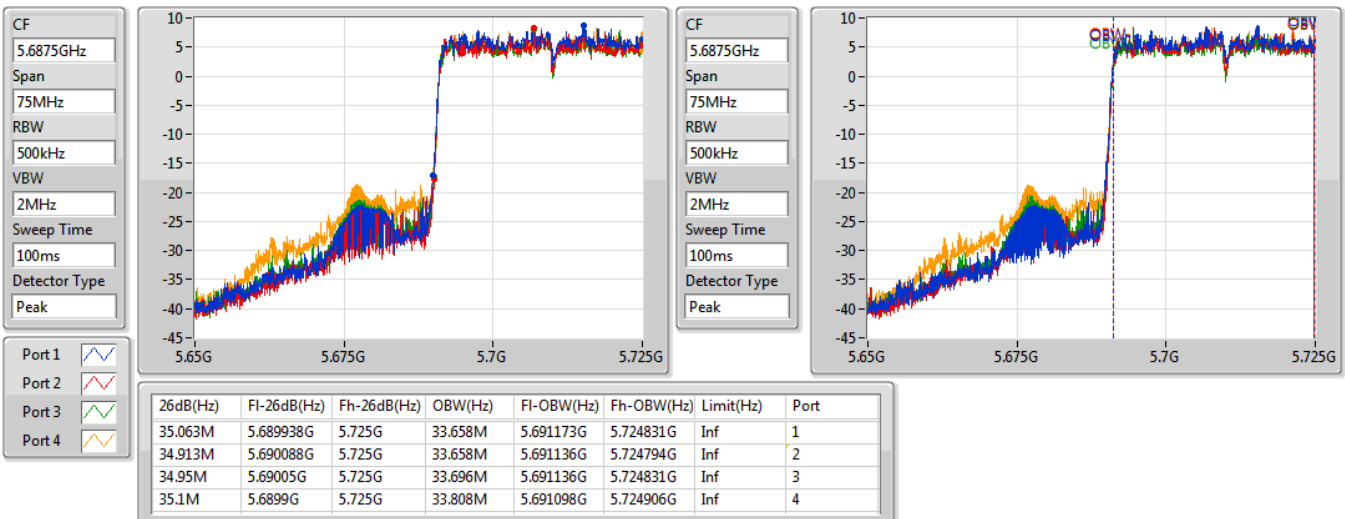
11/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5710MHz Straddle 5.47-5.725GHz

11/07/2020



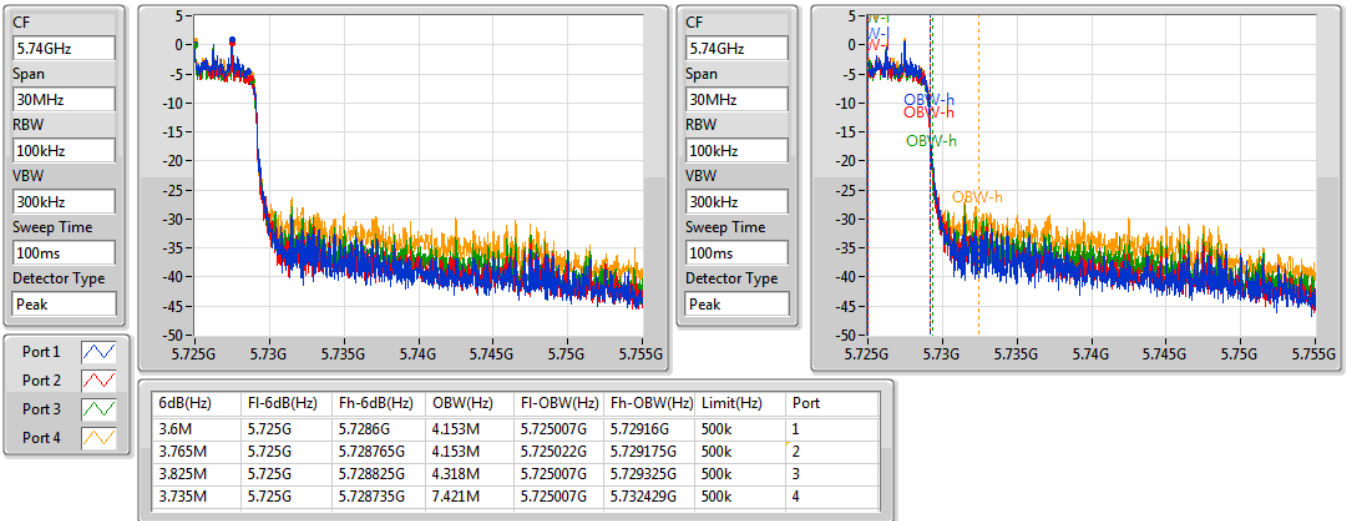
For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

11/07/2020

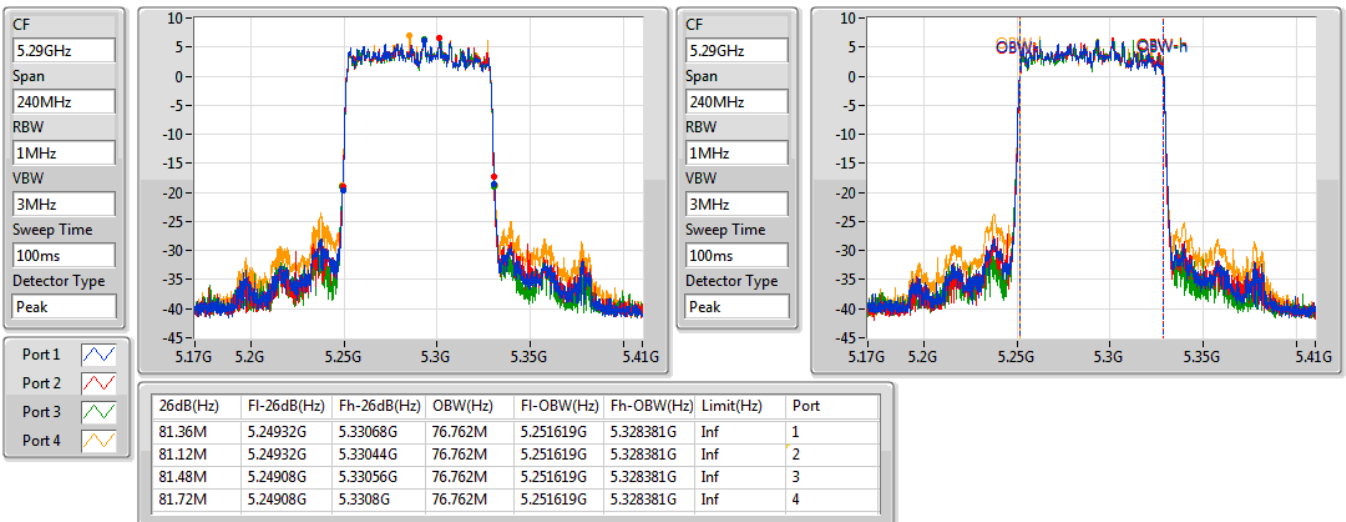


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5290MHz

11/07/2020

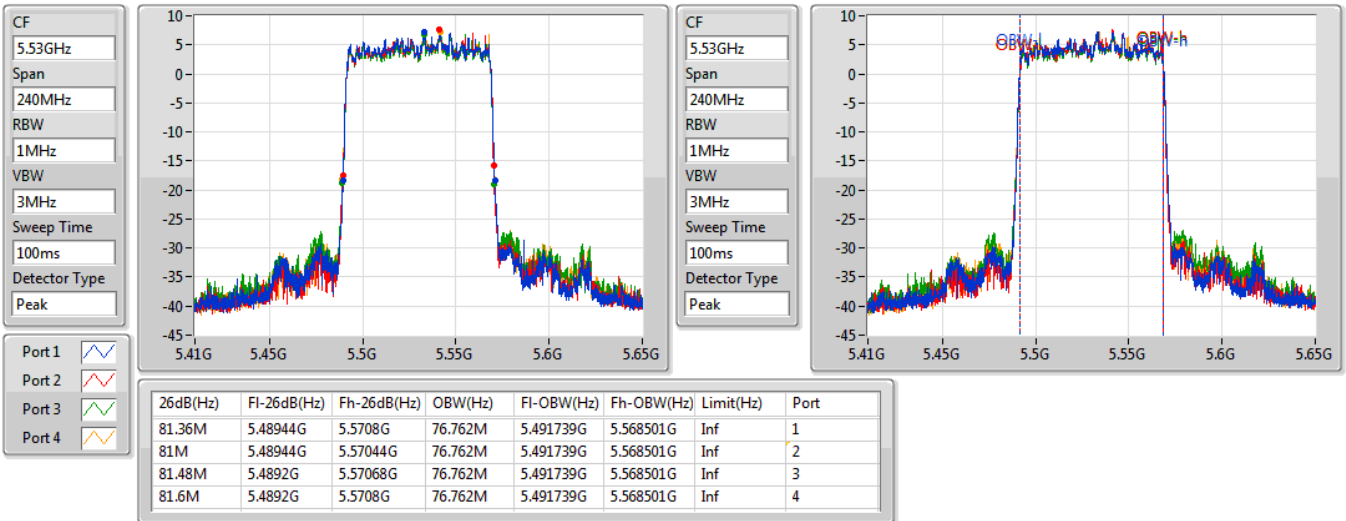


For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5530MHz

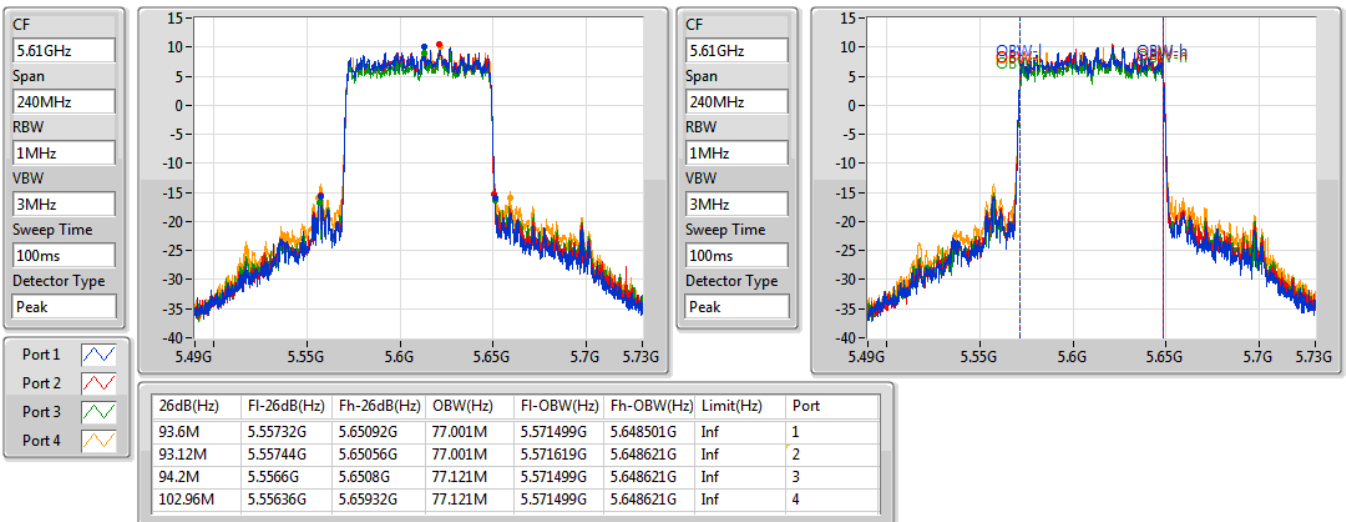
11/07/2020



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5610MHz

11/07/2020



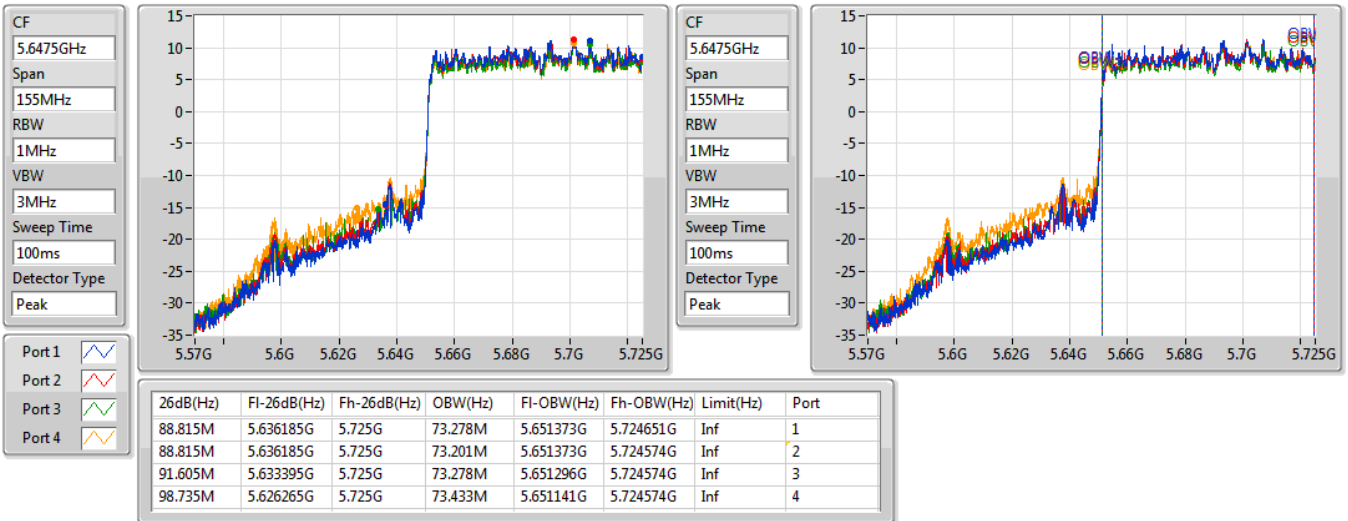
For EUT 1 / Radio 1 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

11/07/2020

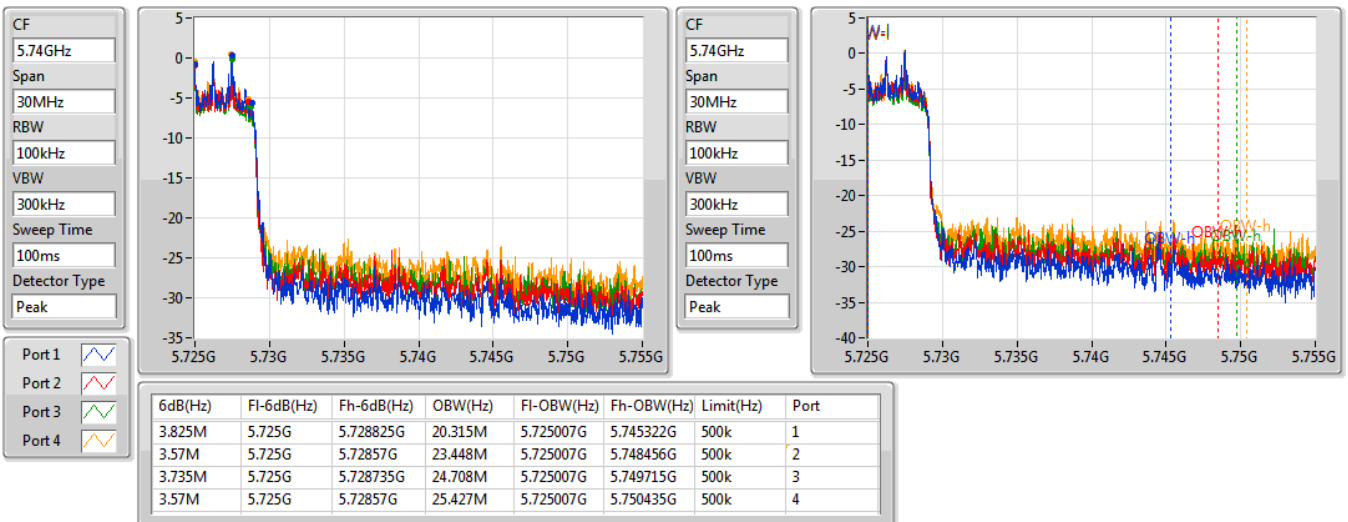


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

11/07/2020



**For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.48M	16.822M	16M8D1D	15.523M	13.346M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.1M	19M1D1D	15.593M	14.518M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.601M	37M6D1D	34.988M	33.621M
802.11ax HEW80_Nss1,(MCS0)_4TX	90.84M	77.121M	77M1D1D	75.64M	72.814M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.15M	4.273M	4M27D1D	3.135M	4.183M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.545M	4.753M	4M75D1D	4.425M	4.633M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.795M	4.108M	4M11D1D	3.555M	4.078M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.855M	12.474M	12M5D1D	3.75M	4.138M

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;

**For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.24M	16.732M	21.48M	16.792M	21.36M	16.762M	21.18M	16.672M
5580MHz	Pass	Inf	21.21M	16.762M	21.45M	16.822M	21.36M	16.762M	21.33M	16.672M
5700MHz	Pass	Inf	21.21M	16.732M	21.39M	16.762M	21.36M	16.762M	21.15M	16.702M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.575M	13.346M	15.663M	13.416M	15.733M	13.451M	15.523M	13.363M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.135M	4.258M	3.135M	4.273M	3.15M	4.213M	3.15M	4.183M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.39M	18.981M	21.27M	19.04M	21.54M	19.04M	21.48M	19.1M
5580MHz	Pass	Inf	21.57M	19.01M	21.36M	19.04M	21.6M	19.07M	21.51M	19.1M
5700MHz	Pass	Inf	21.45M	19.01M	21.36M	19.04M	21.54M	19.07M	21.54M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.768M	14.518M	15.593M	14.518M	15.768M	14.535M	15.733M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.455M	4.633M	4.455M	4.678M	4.425M	4.693M	4.545M	4.753M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	Inf	40.02M	37.541M	39.78M	37.481M	39.96M	37.541M	39.96M	37.481M
5550MHz	Pass	Inf	40.14M	37.541M	39.78M	37.481M	40.02M	37.541M	40.02M	37.481M
5670MHz	Pass	Inf	40.14M	37.541M	39.96M	37.541M	39.9M	37.601M	40.08M	37.541M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.063M	33.621M	34.988M	33.658M	35.1M	33.696M	35.1M	33.733M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.108M	3.63M	4.078M	3.795M	4.093M	3.555M	4.078M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	Inf	81.36M	76.522M	81.12M	76.642M	81.36M	76.642M	81.36M	76.642M
5610MHz	Pass	Inf	81.6M	77.001M	90.84M	77.121M	81.72M	76.882M	81.96M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.64M	73.046M	75.64M	73.046M	75.718M	72.814M	75.795M	72.891M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.795M	4.348M	3.75M	12.474M	3.855M	4.153M	3.75M	4.138M

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

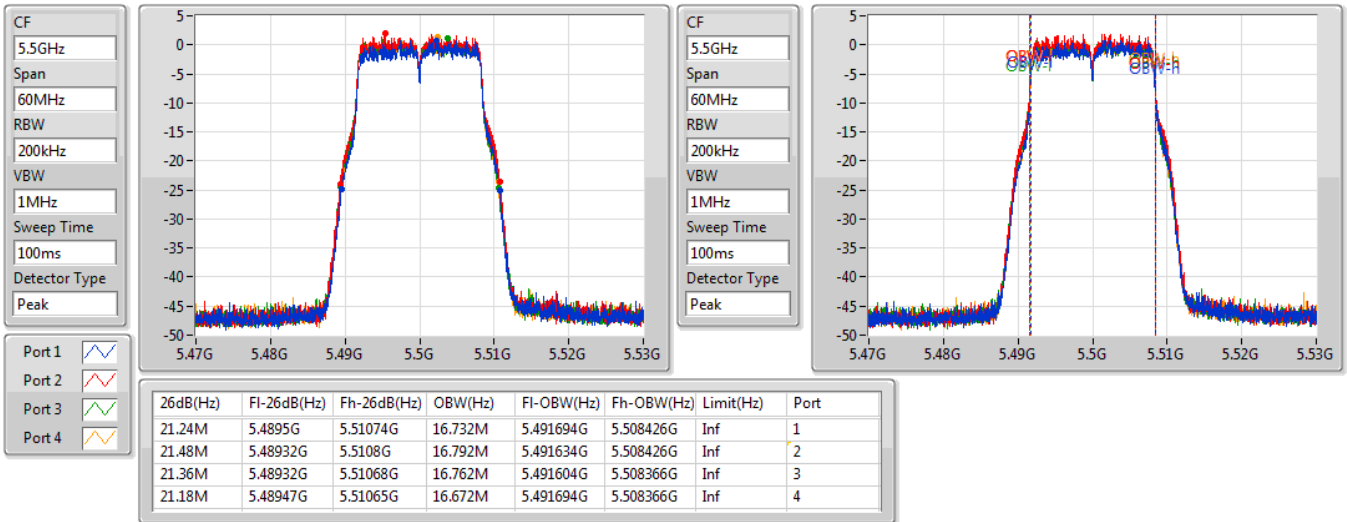
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5500MHz

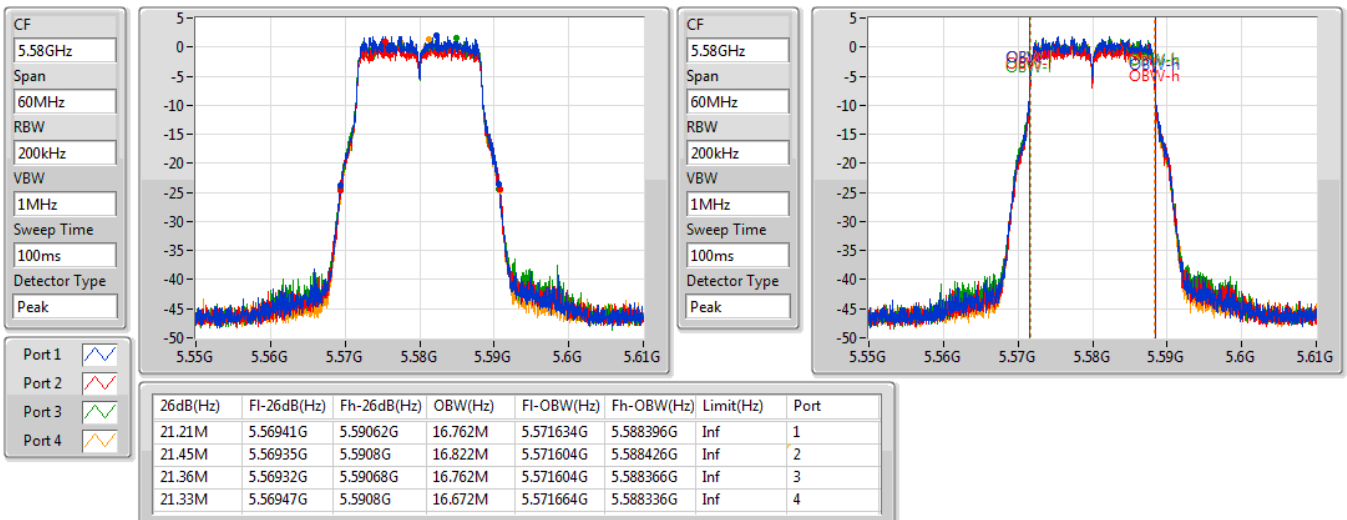
17/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5580MHz

17/07/2020

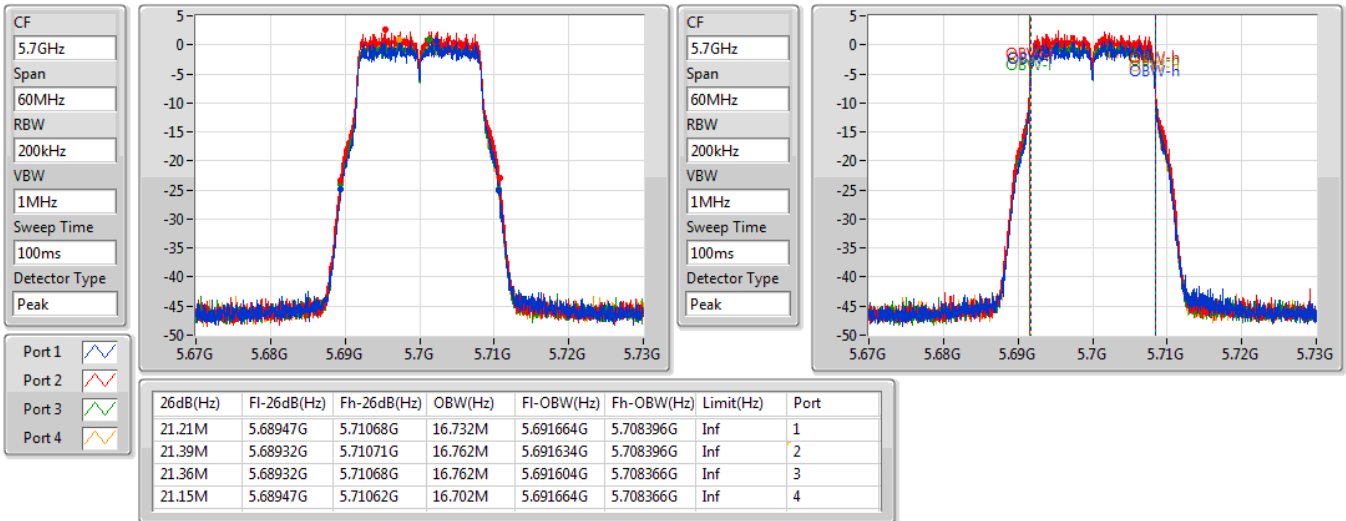


For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5700MHz

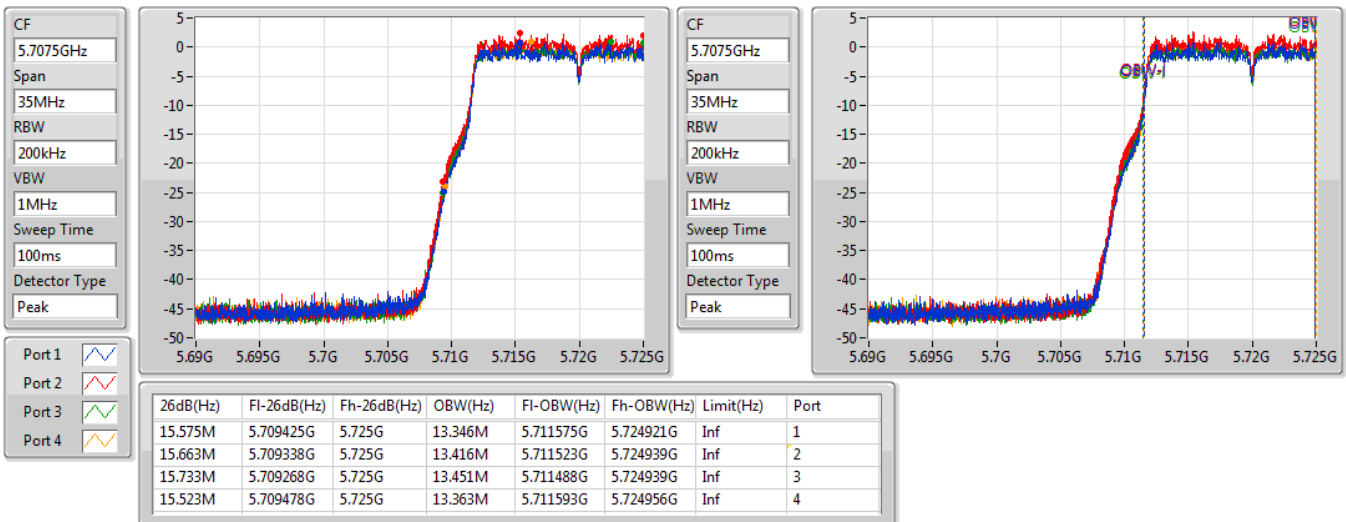
17/07/2020



802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz

17/07/2020



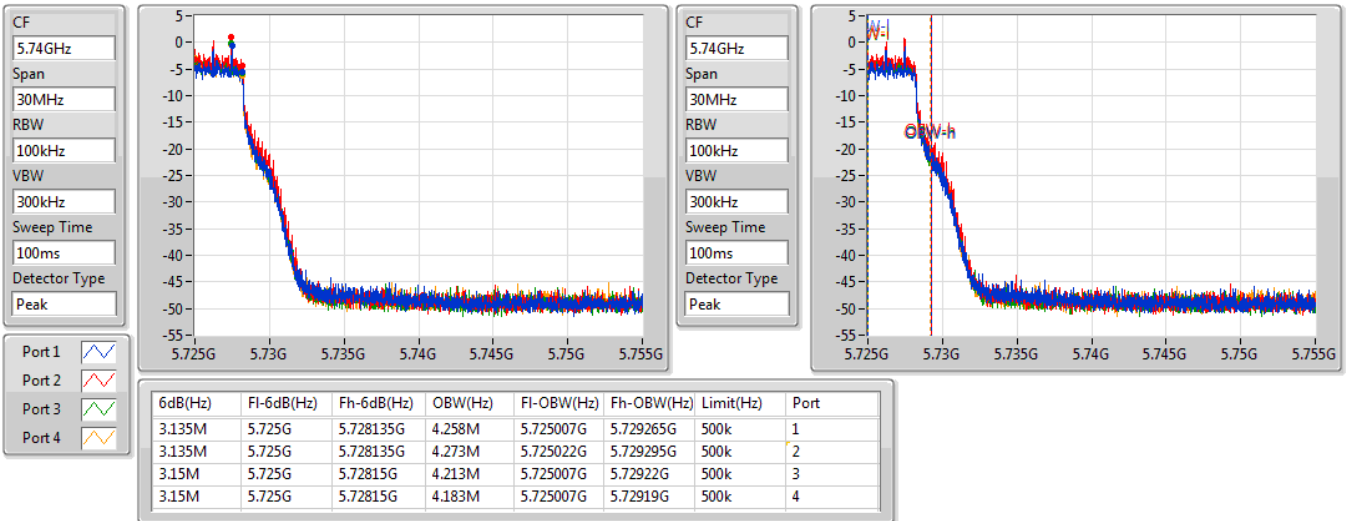
For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

17/07/2020

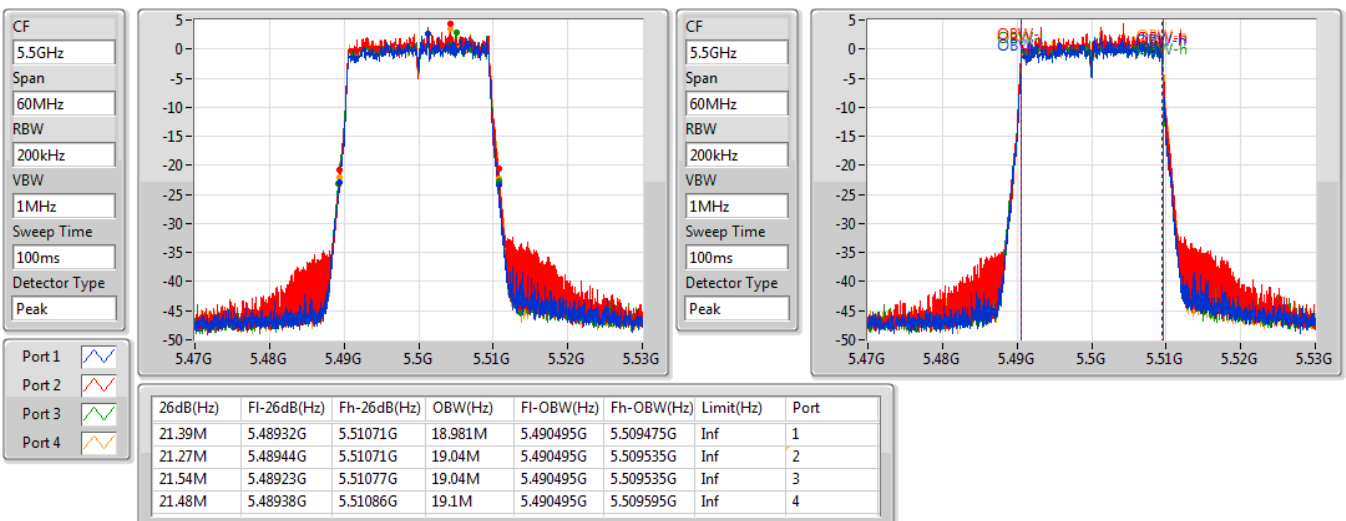


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5500MHz

17/07/2020

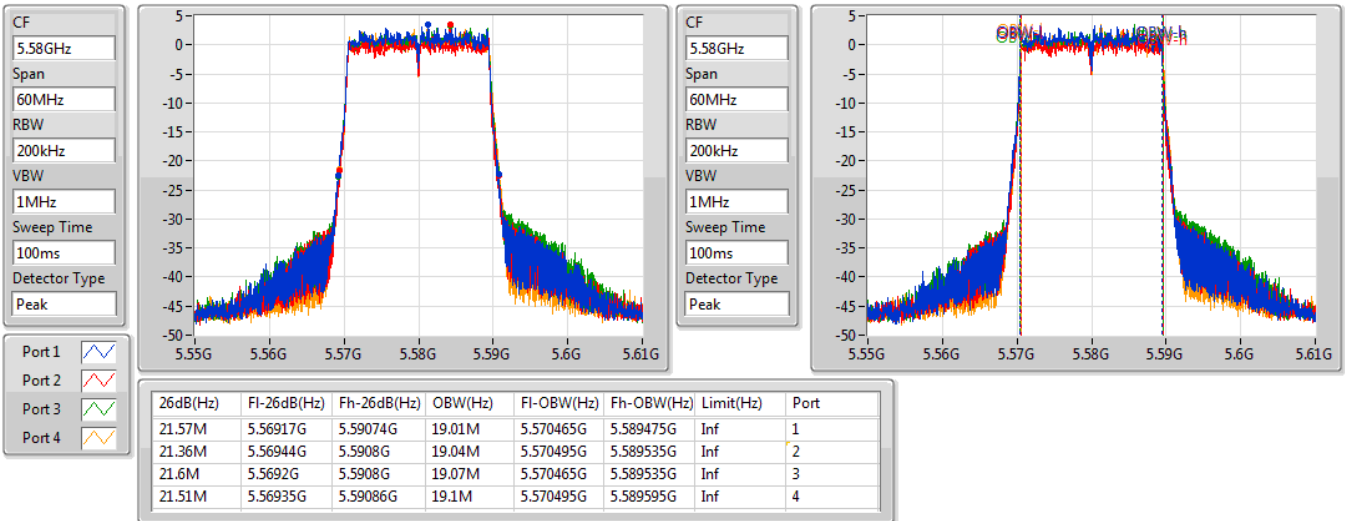


For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5580MHz

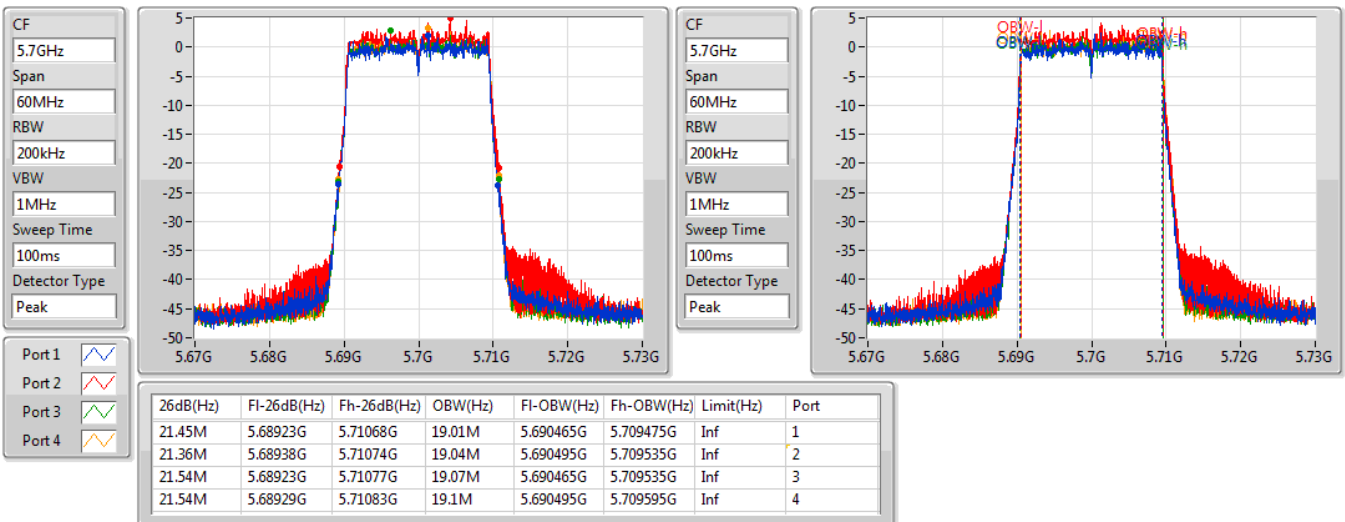
17/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5700MHz

17/07/2020



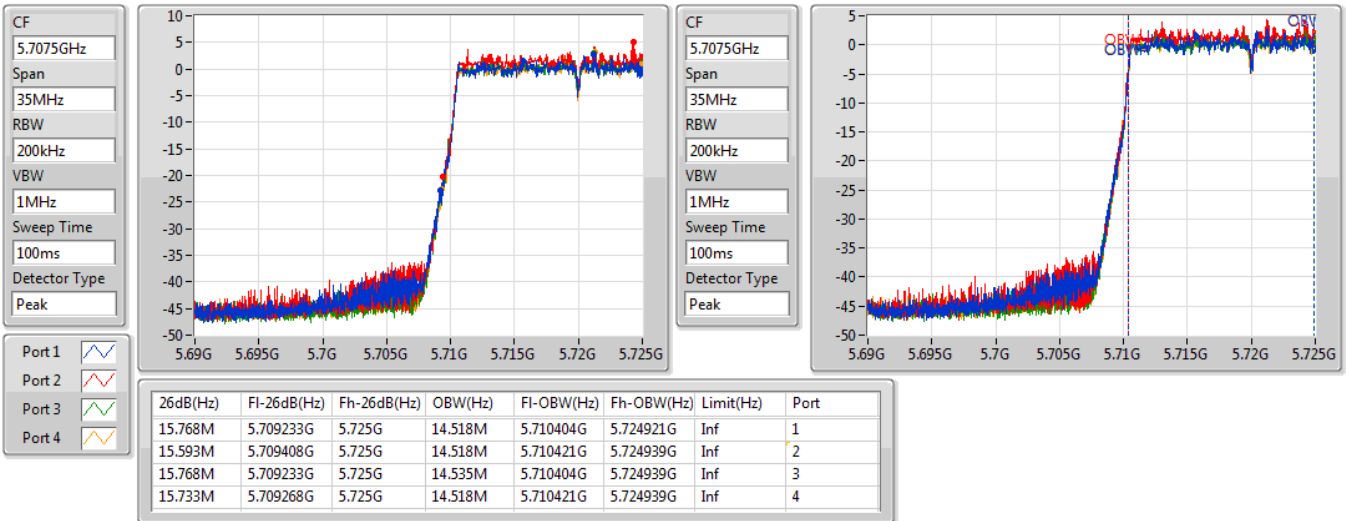
For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

17/07/2020

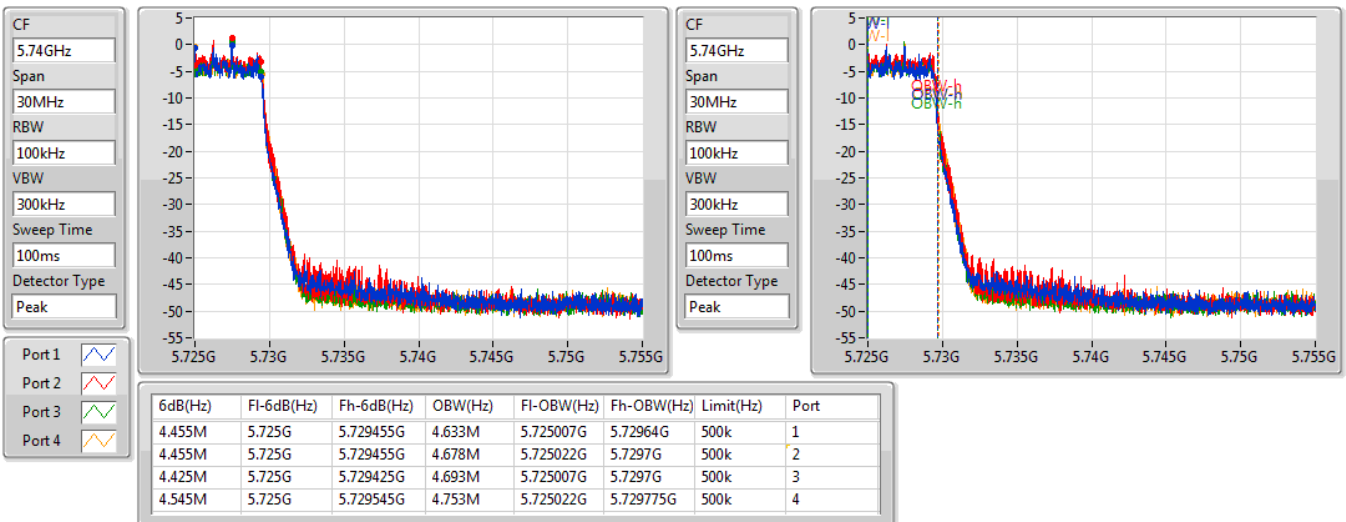


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

17/07/2020

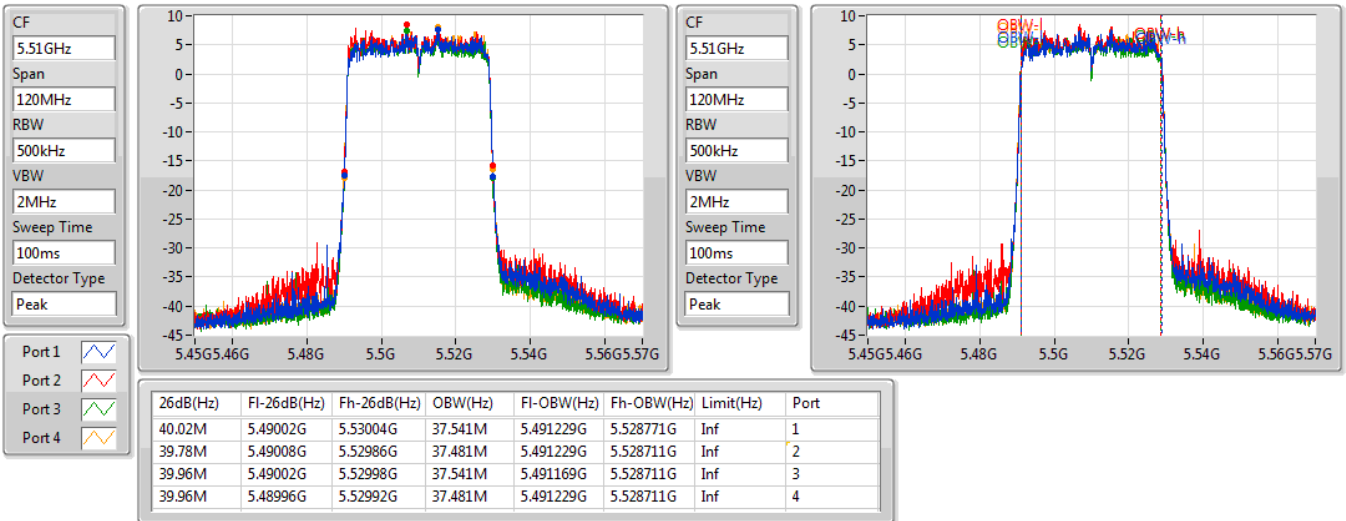


For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5510MHz

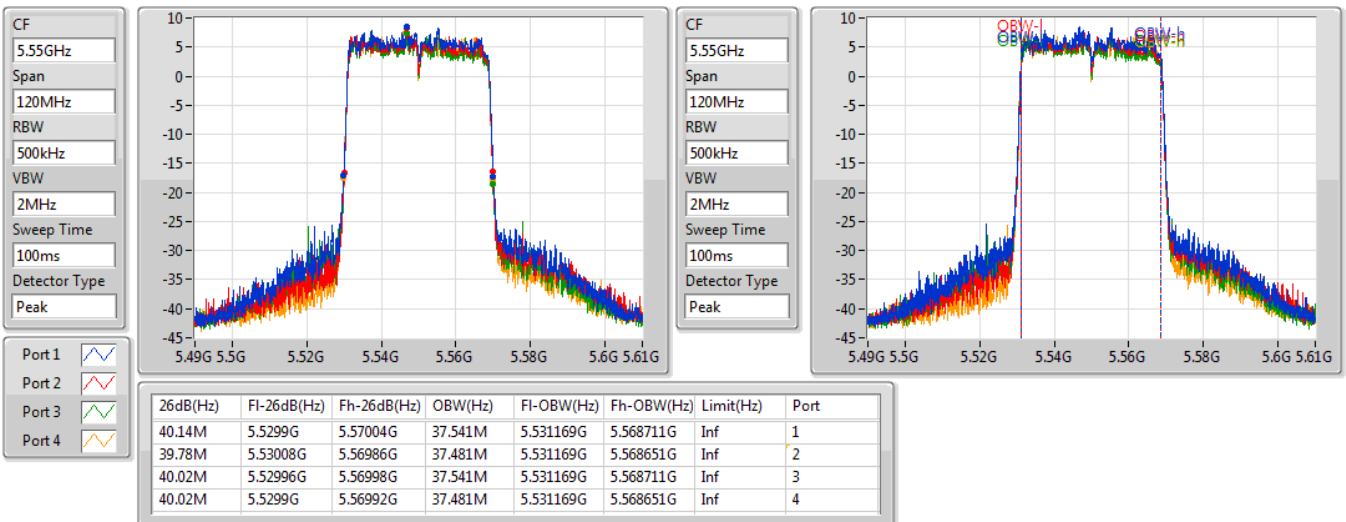
17/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5550MHz

17/07/2020

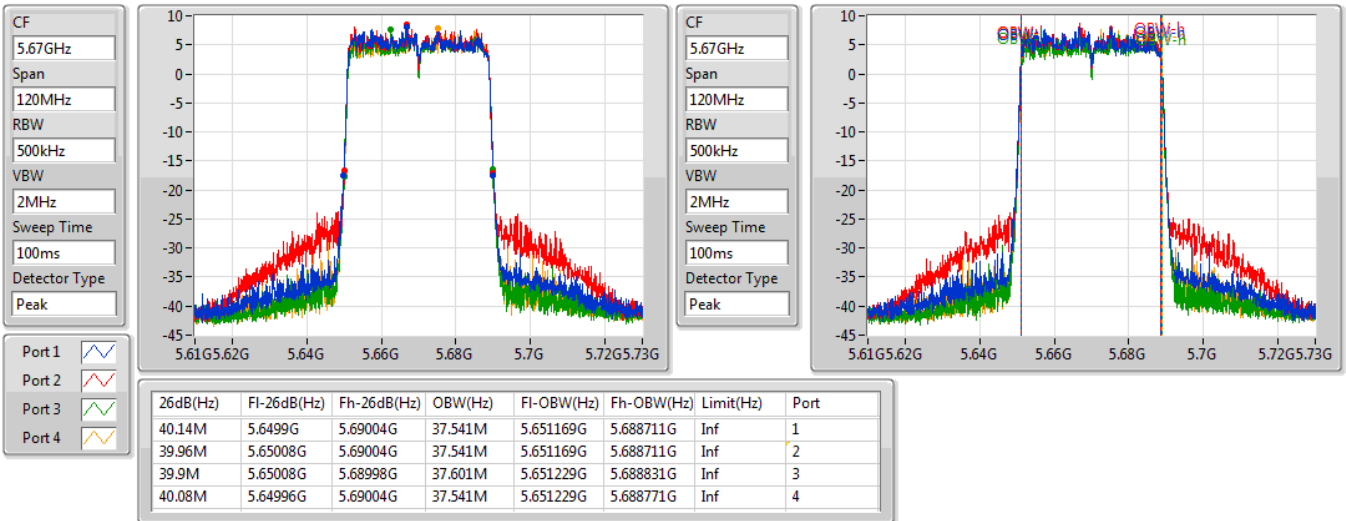


For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5670MHz

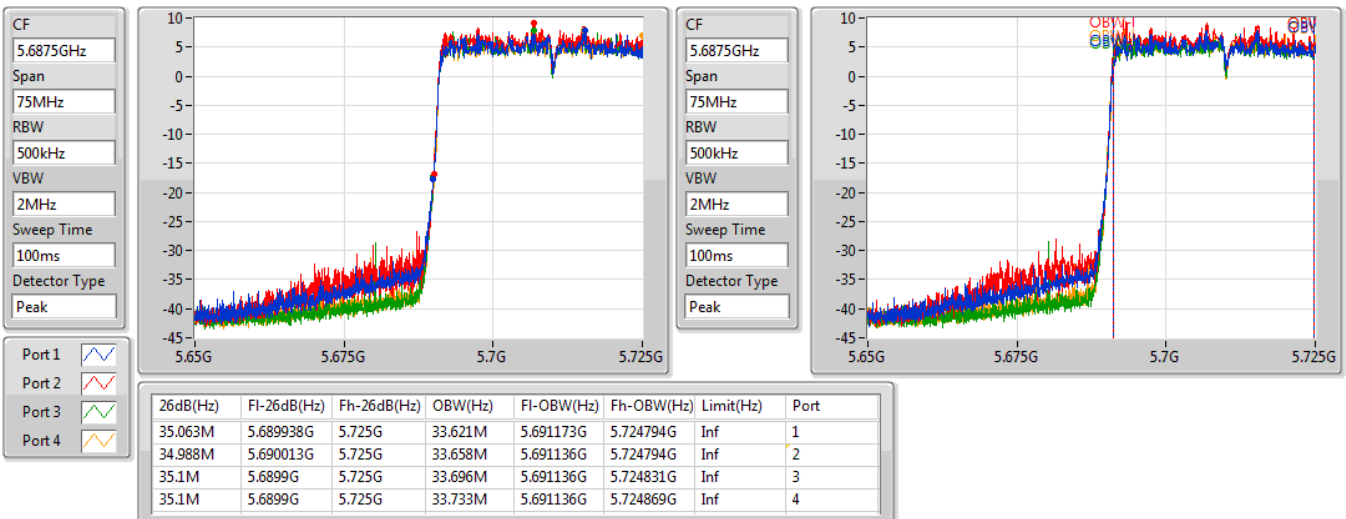
17/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5710MHz Straddle 5.47-5.725GHz

17/07/2020



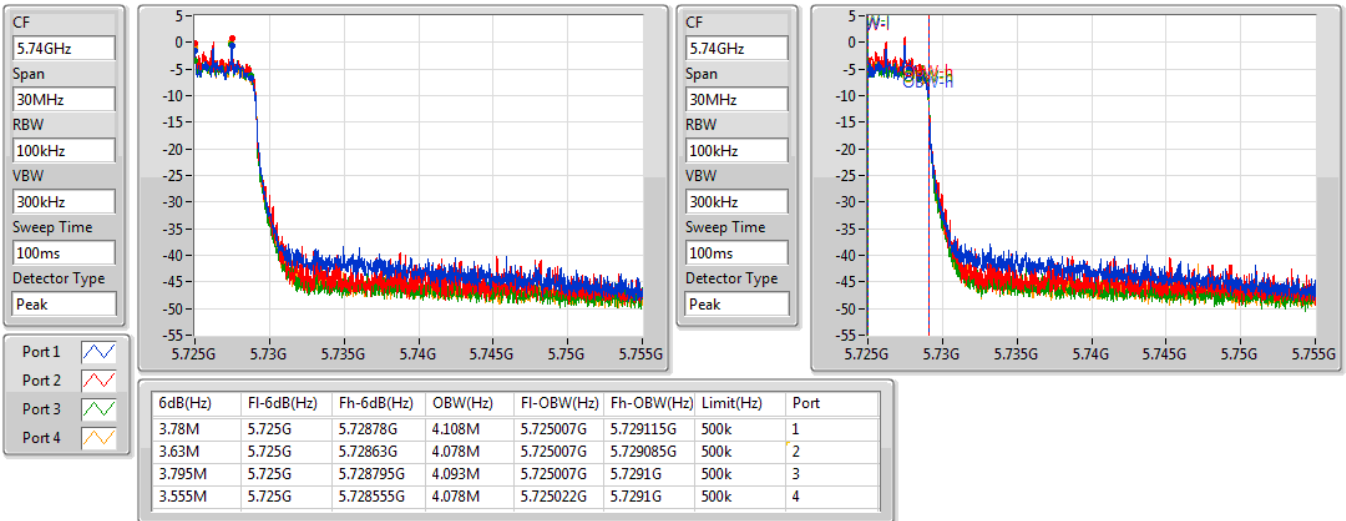
For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

17/07/2020

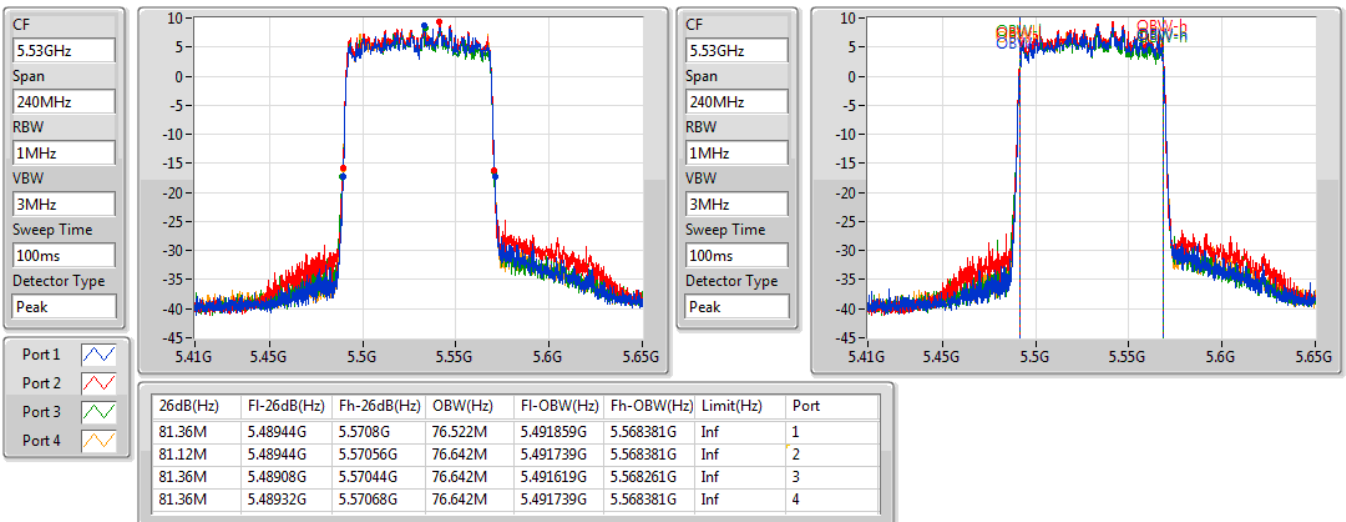


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5530MHz

17/07/2020

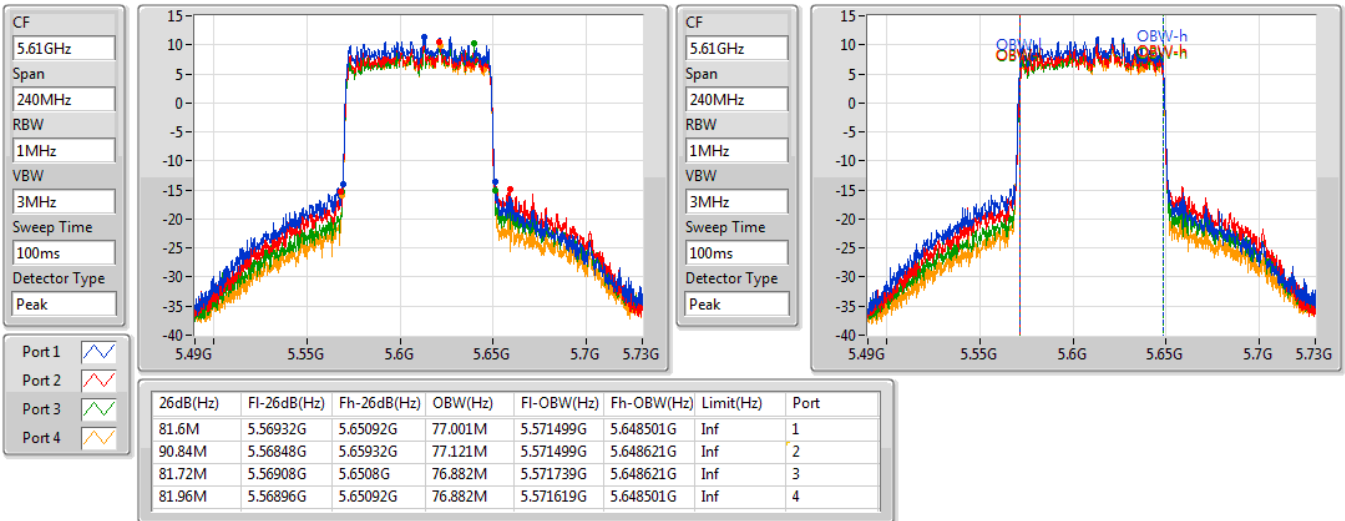


For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5610MHz

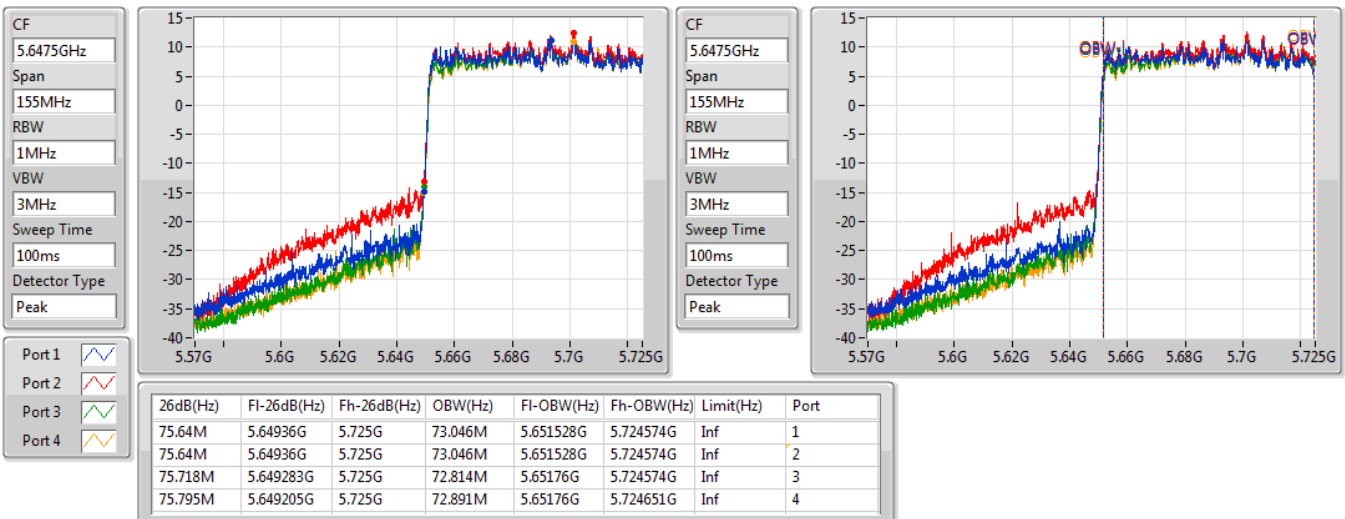
17/07/2020



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5690MHz Straddle 5.47-5.725GHz

17/07/2020



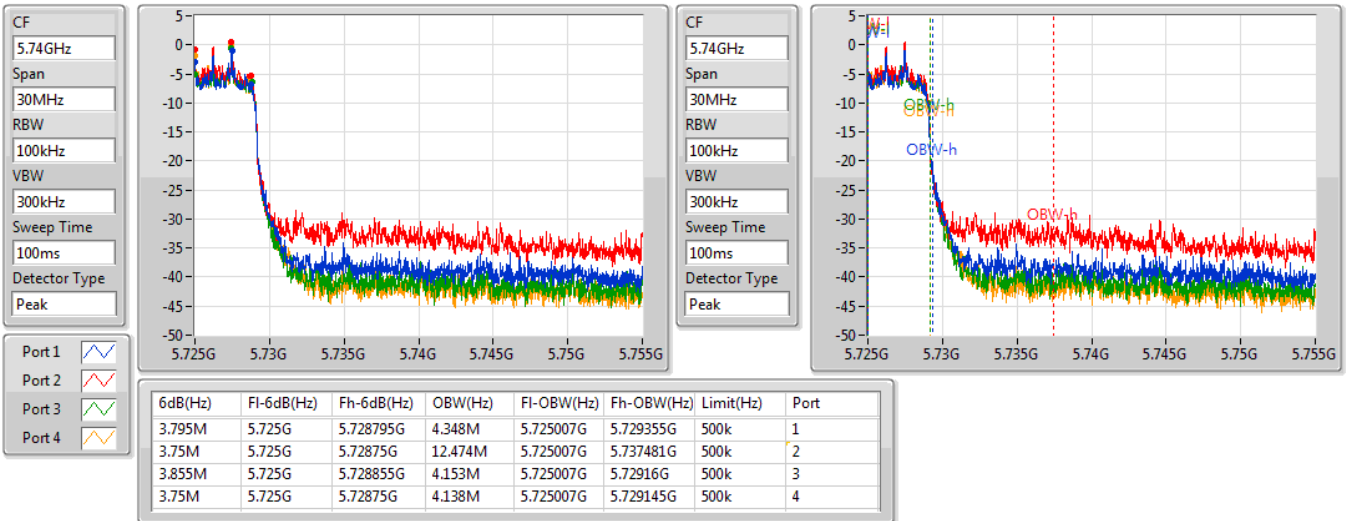
For EUT 1 / Radio 2 Band 3 only_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

17/07/2020



**For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.38M	29.625M	29M6D1D	16.29M	21.109M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.9M	31.514M	31M5D1D	18.66M	21.589M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.56M	50.615M	50M6D1D	36.42M	38.981M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.8M	77.361M	77M4D1D	75.12M	77.121M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

**For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.29M	27.166M	16.32M	29.625M	16.32M	26.627M	16.32M	25.727M
5785MHz	Pass	500k	16.32M	26.597M	16.32M	26.687M	16.29M	25.427M	16.35M	24.438M
5825MHz	Pass	500k	16.38M	23.418M	16.32M	23.208M	16.32M	22.669M	16.35M	21.109M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.69M	28.876M	18.66M	31.514M	18.78M	27.856M	18.72M	26.987M
5785MHz	Pass	500k	18.81M	28.036M	18.72M	28.516M	18.69M	26.987M	18.72M	25.727M
5825MHz	Pass	500k	18.78M	23.808M	18.9M	23.868M	18.66M	21.679M	18.72M	21.589M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.56M	47.856M	36.72M	44.978M	37.5M	39.82M	36.78M	38.981M
5795MHz	Pass	500k	37.08M	50.615M	36.42M	43.598M	37.56M	41.859M	36.84M	40.24M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.12M	77.361M	76.32M	77.241M	75.84M	77.121M	76.8M	77.121M

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

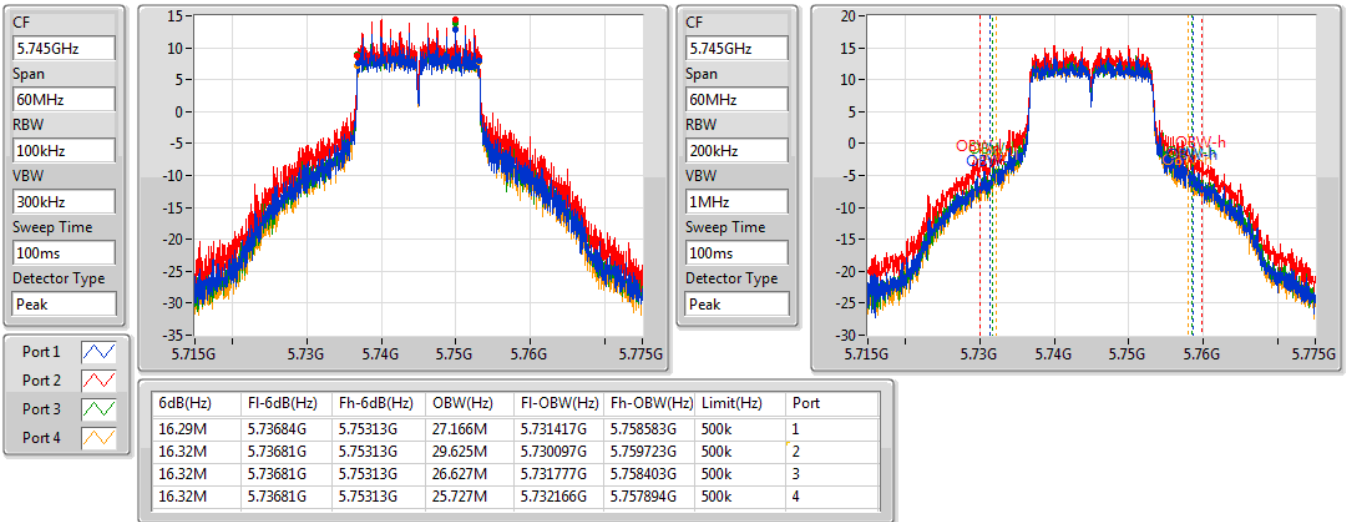
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5745MHz

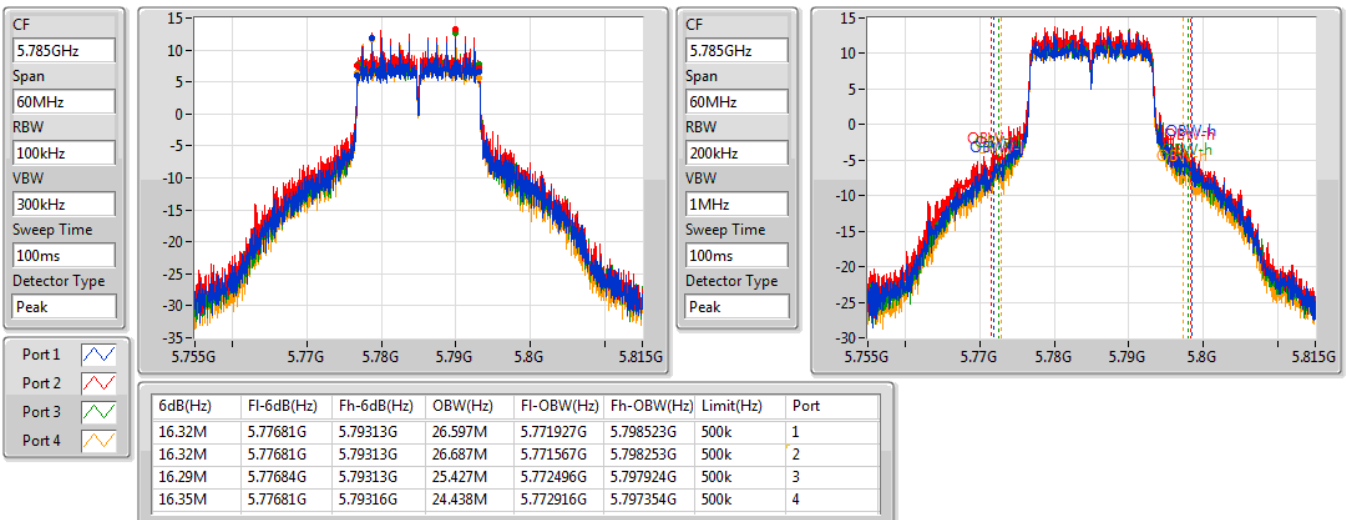
11/07/2020



802.11a_Nss1,(6Mbps)_4TX

5785MHz

11/07/2020

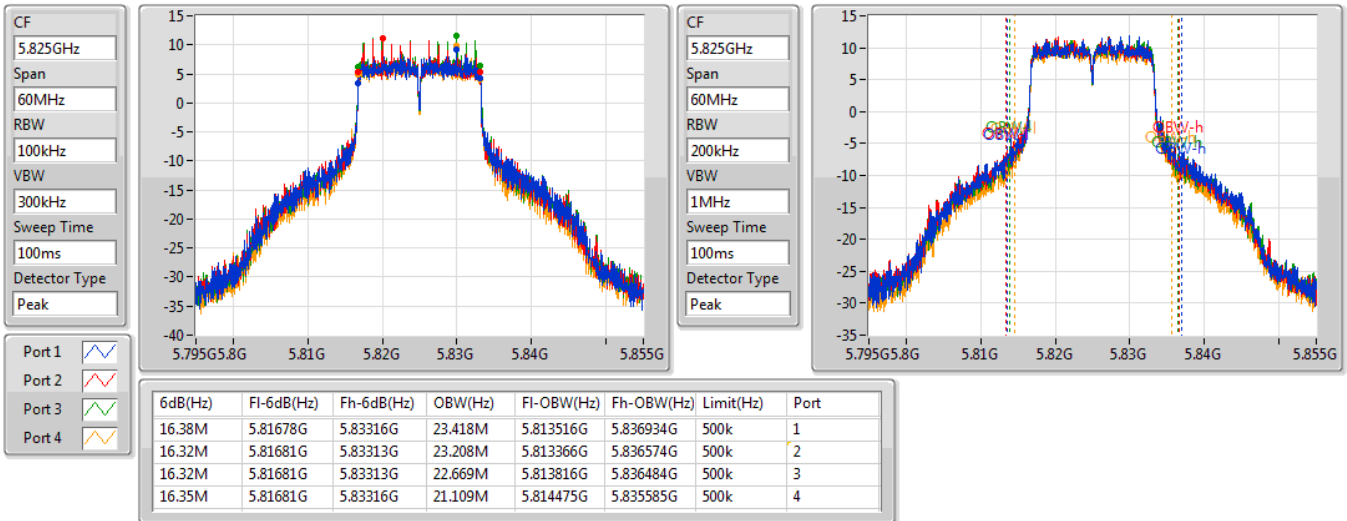


For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5825MHz

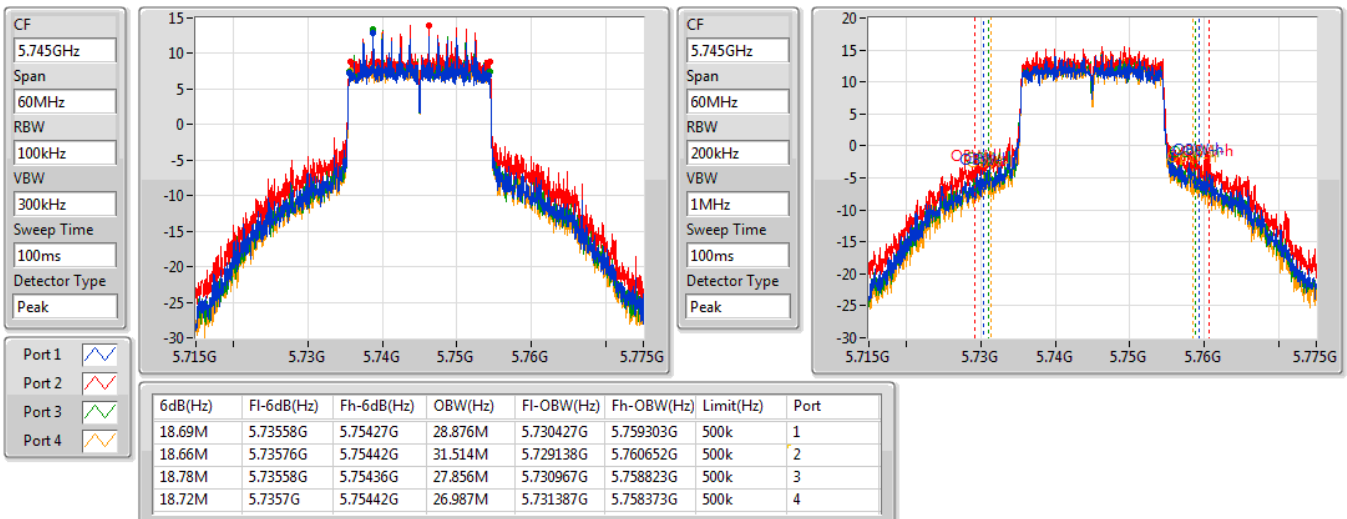
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5745MHz

11/07/2020

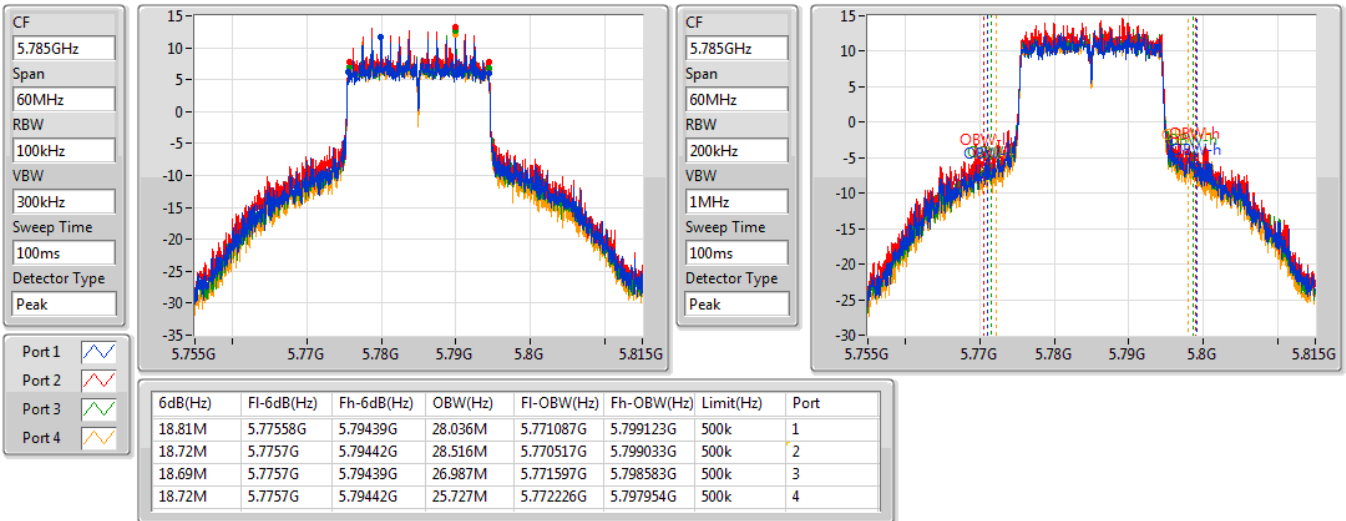


For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5785MHz

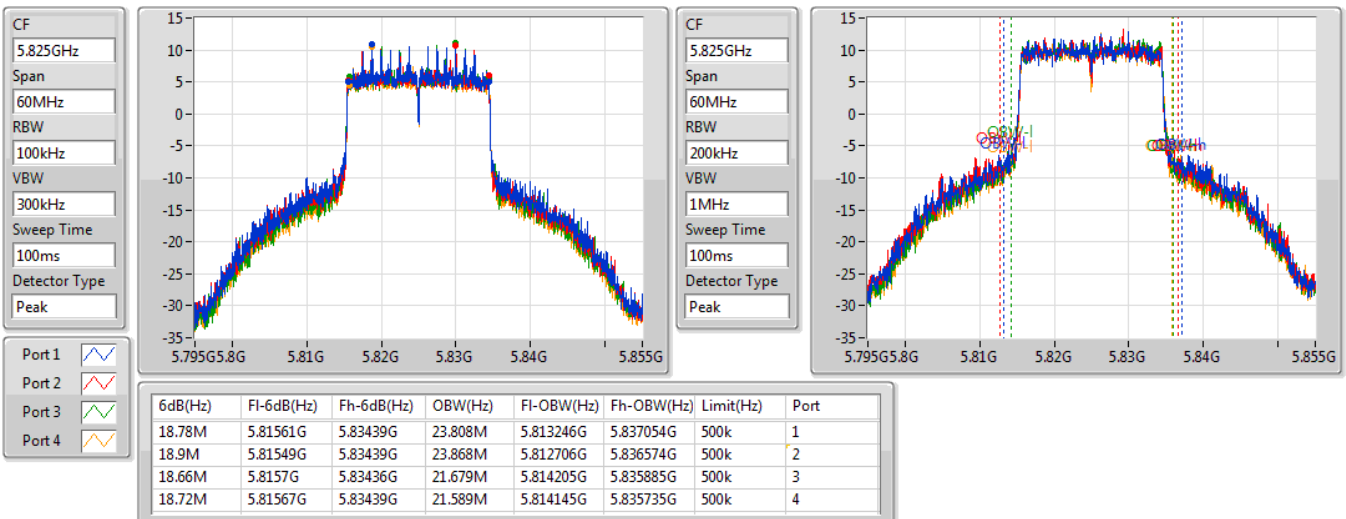
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5825MHz

11/07/2020

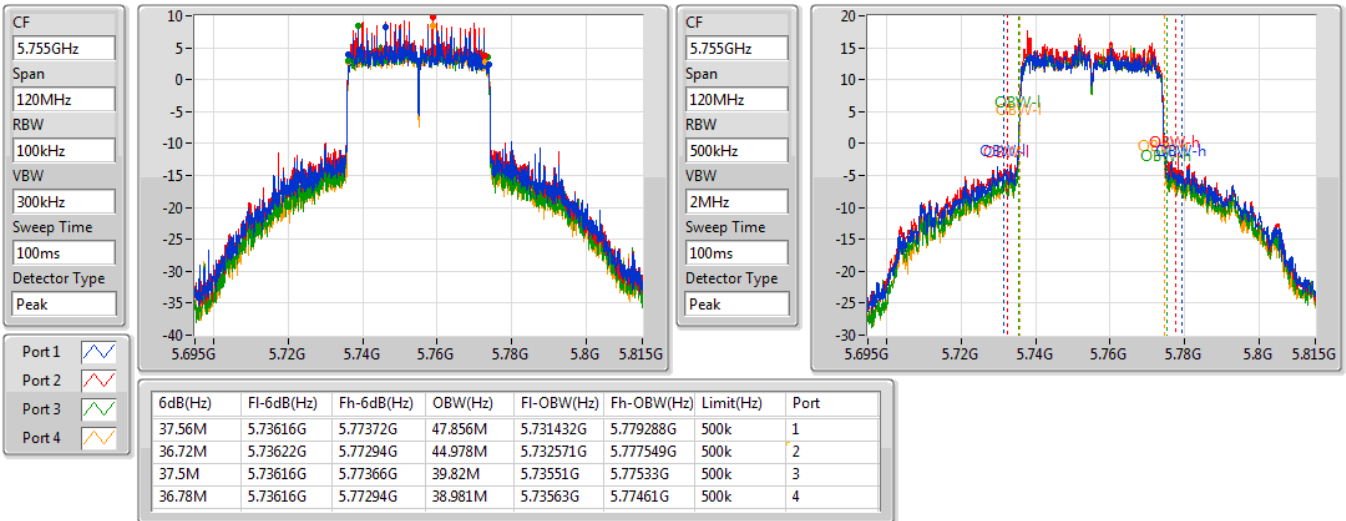


For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5755MHz

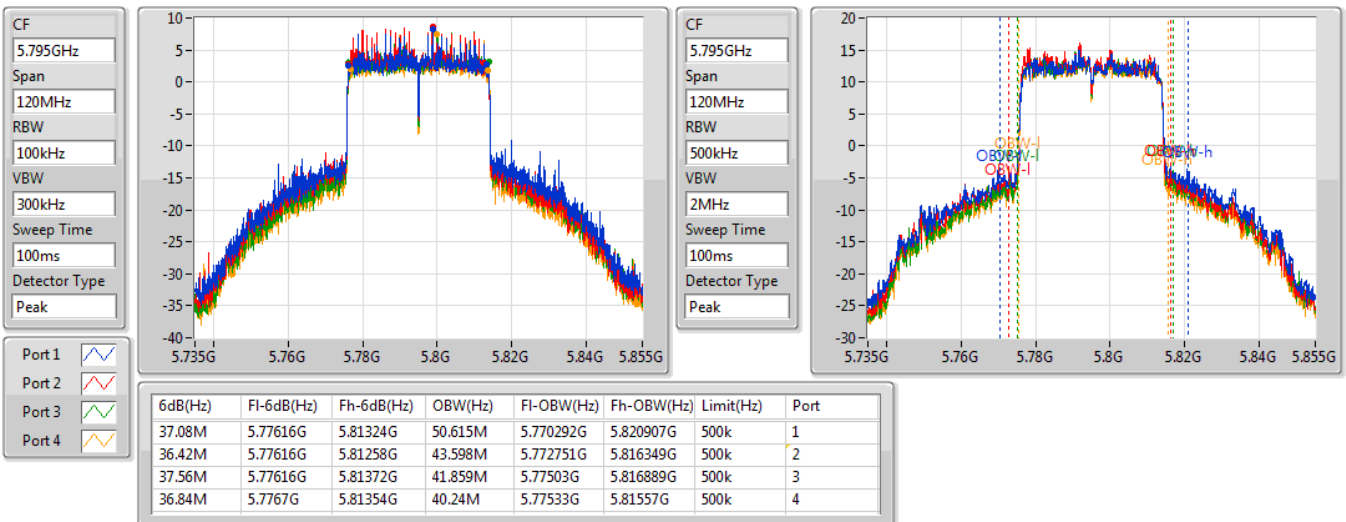
11/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5795MHz

11/07/2020



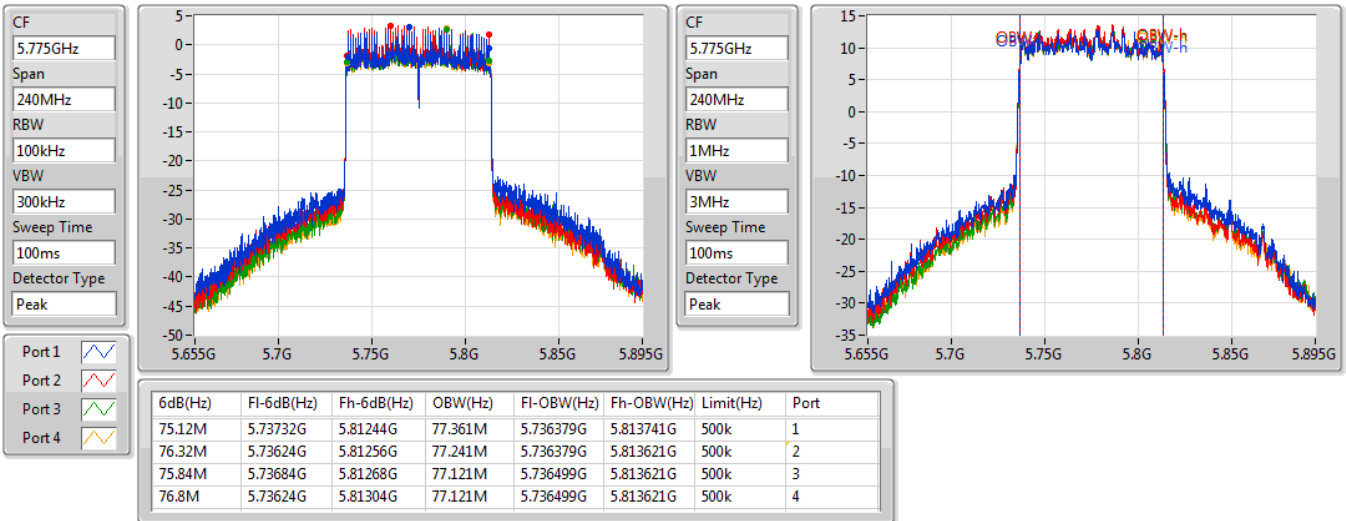
For EUT 1 / Radio 2 Band 4 only_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

11/07/2020



**For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode
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	21.78M	16.762M	16M8D1D	21.15M	16.672M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.45M	19.1M	19M1D1D	21.3M	19.01M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.08M	37.541M	37M5D1D	39.84M	37.481M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.24M	76.882M	76M9D1D	81.24M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.44M	34.663M	34M7D1D	16.32M	32.264M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.63M	37.571M	37M6D1D	18.51M	34.543M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.56M	57.811M	57M8D1D	36.78M	55.652M
802.11ax HEW80_Nss1,(MCS0)_2TX	76.2M	78.201M	78M2D1D	75.12M	77.481M

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;

**For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode
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	21.21M	16.732M	21.78M	16.672M
5200MHz	Pass	Inf	21.15M	16.762M	21.63M	16.672M
5240MHz	Pass	Inf	21.18M	16.732M	21.78M	16.702M
5745MHz	Pass	500k	16.32M	32.264M	16.41M	34.663M
5785MHz	Pass	500k	16.44M	32.414M	16.32M	34.003M
5825MHz	Pass	500k	16.35M	32.984M	16.35M	33.523M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.45M	19.01M	21.36M	19.1M
5200MHz	Pass	Inf	21.3M	19.01M	21.42M	19.07M
5240MHz	Pass	Inf	21.45M	19.01M	21.33M	19.07M
5745MHz	Pass	500k	18.54M	35.052M	18.57M	37.571M
5785MHz	Pass	500k	18.63M	34.543M	18.6M	36.852M
5825MHz	Pass	500k	18.63M	35.292M	18.51M	36.672M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.481M	39.84M	37.481M
5230MHz	Pass	Inf	40.08M	37.541M	39.96M	37.541M
5755MHz	Pass	500k	37.5M	55.652M	37.02M	57.571M
5795MHz	Pass	500k	37.56M	57.811M	36.78M	56.192M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.24M	76.762M	81.24M	76.882M
5775MHz	Pass	500k	76.2M	78.201M	75.12M	77.481M

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

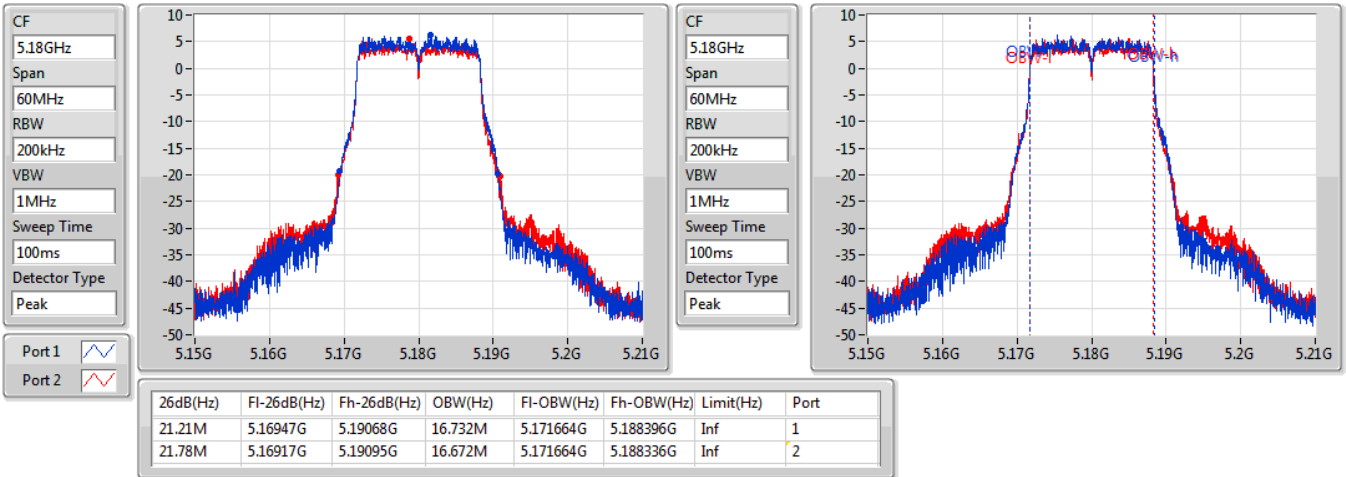
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5180MHz

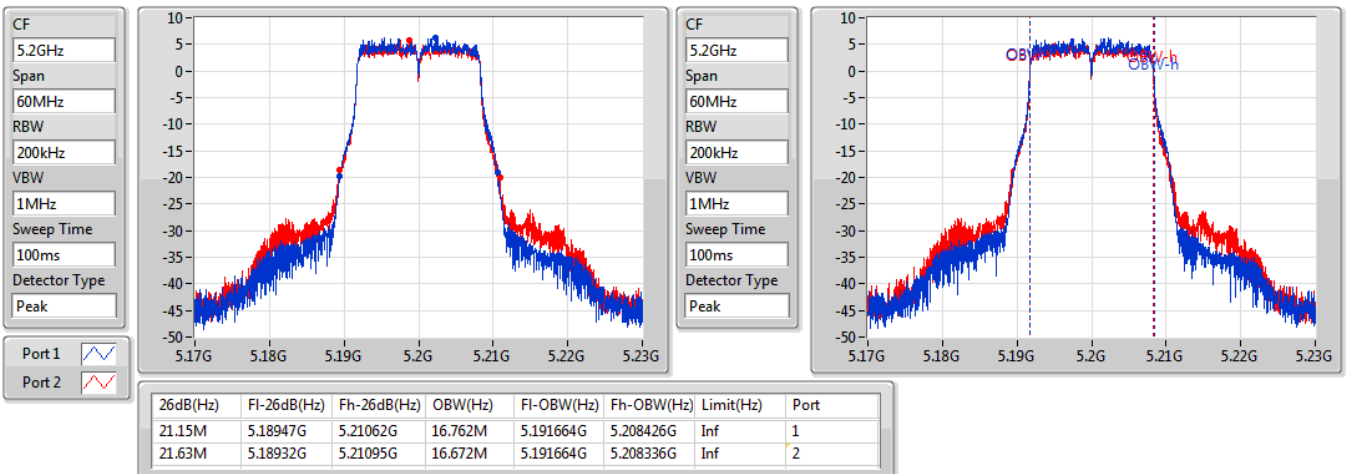
11/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5200MHz

11/07/2020

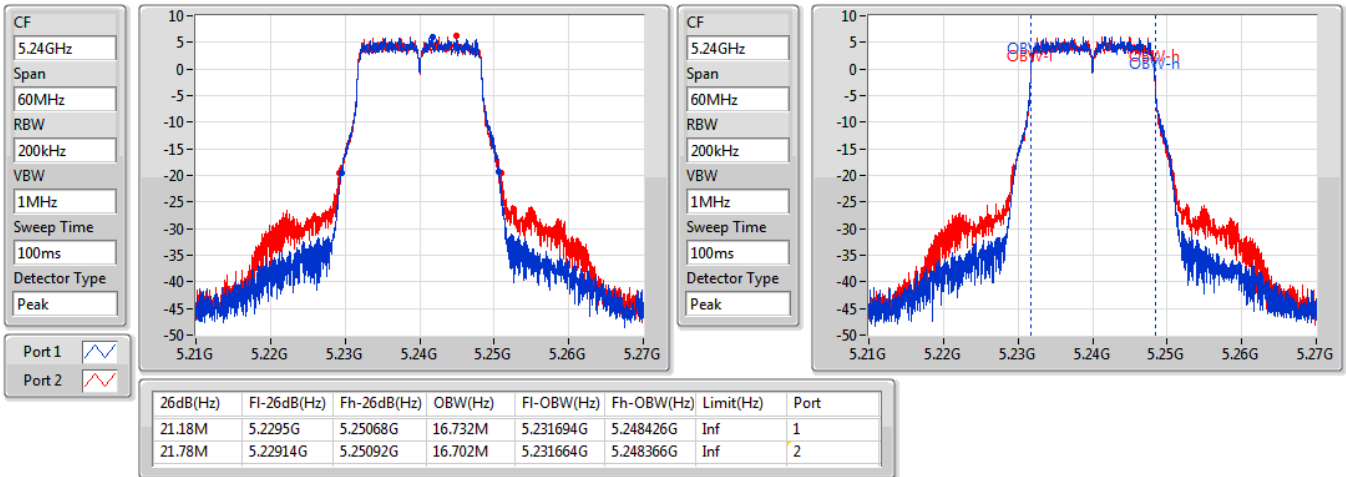


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5240MHz

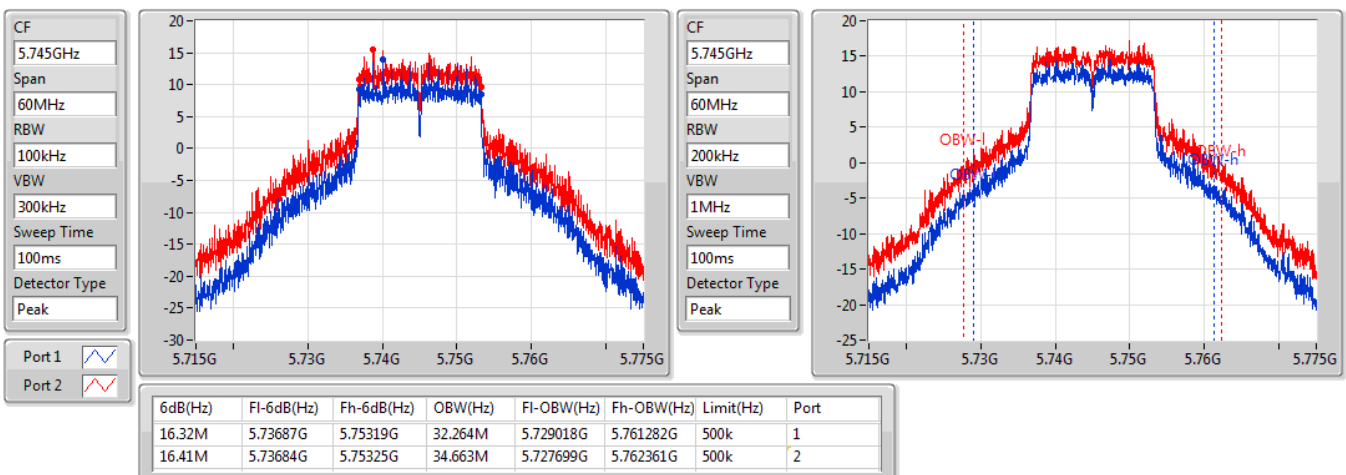
11/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5745MHz

08/07/2020

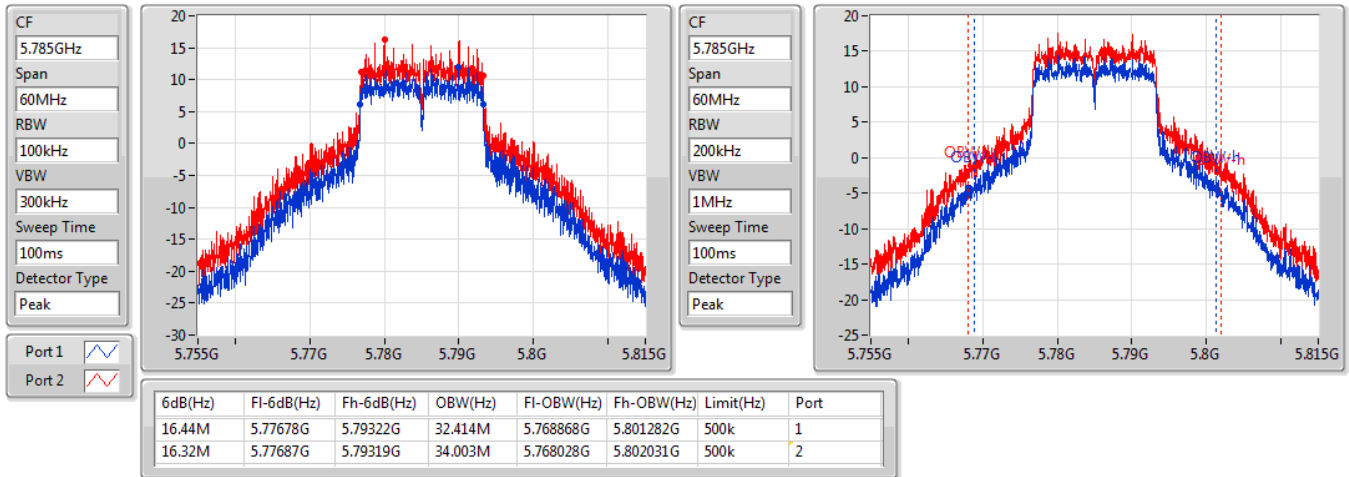


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5785MHz

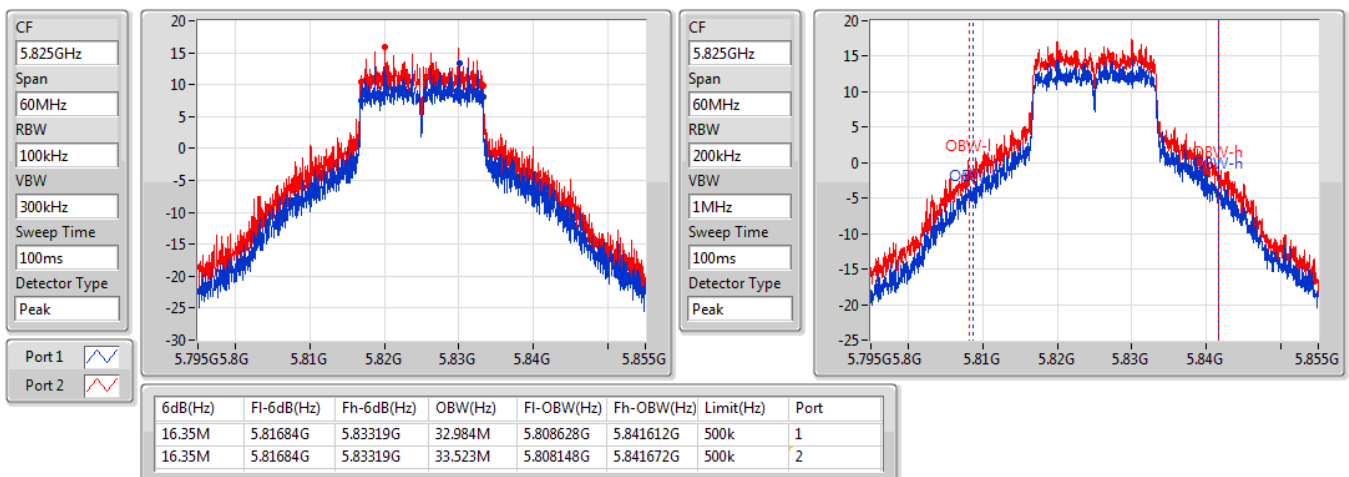
08/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5825MHz

08/07/2020

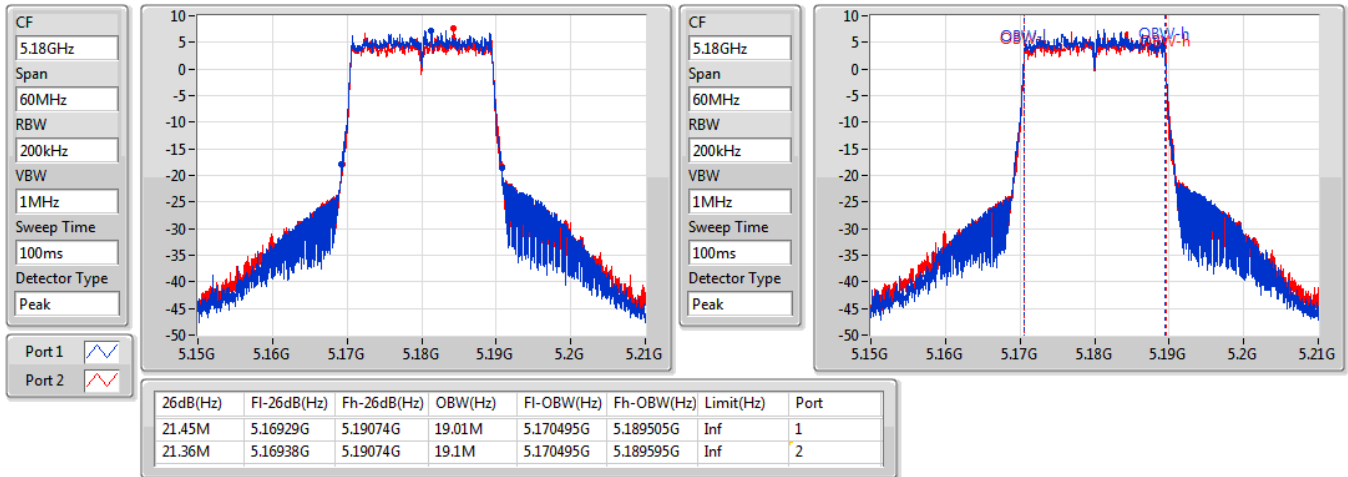


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5180MHz

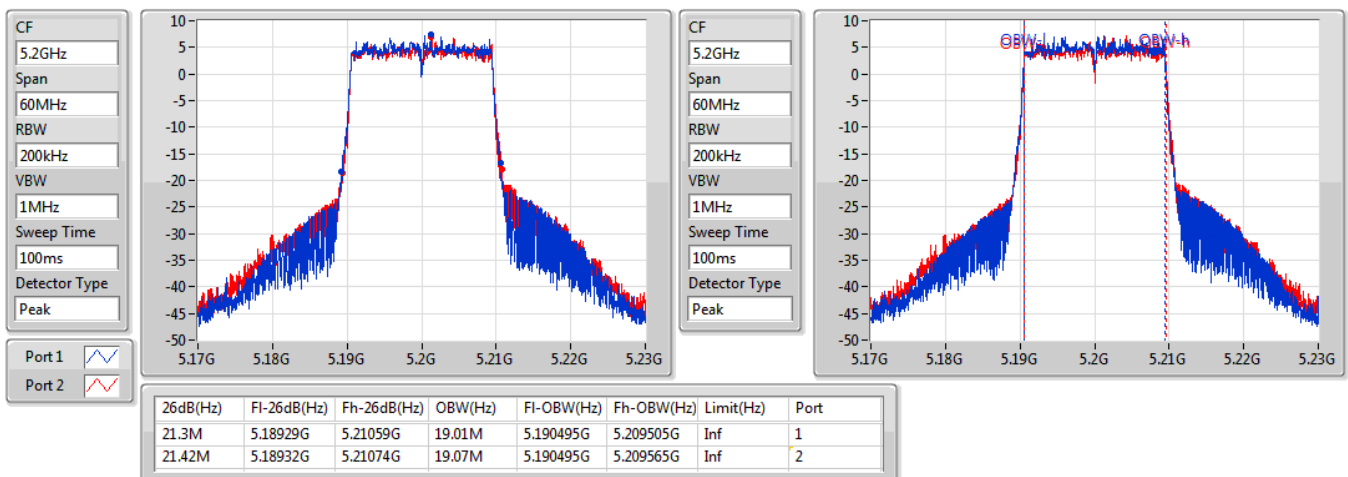
11/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5200MHz

11/07/2020

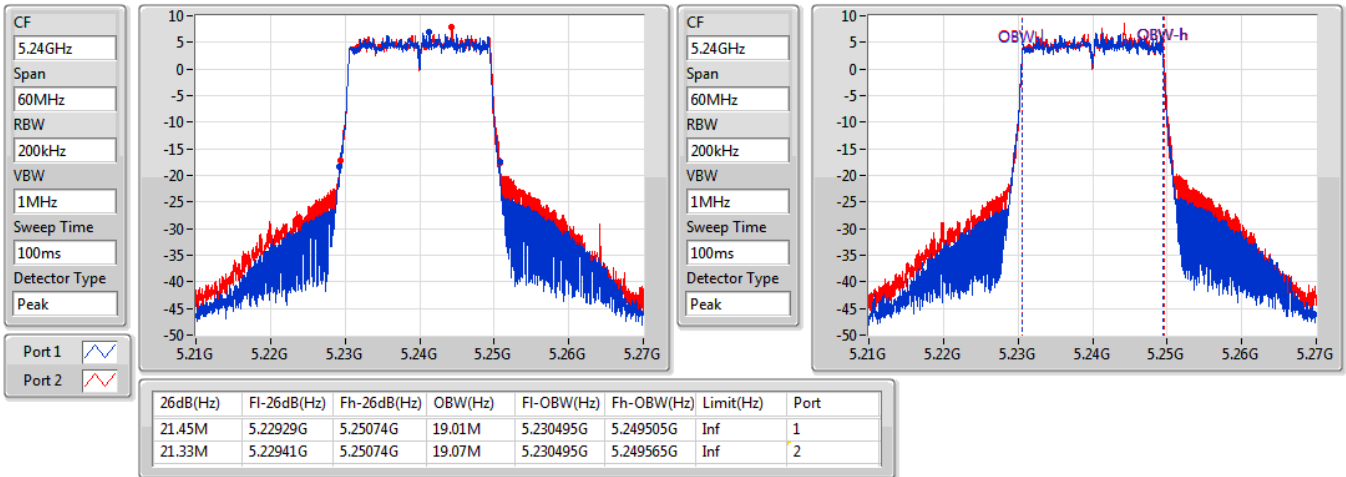


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5240MHz

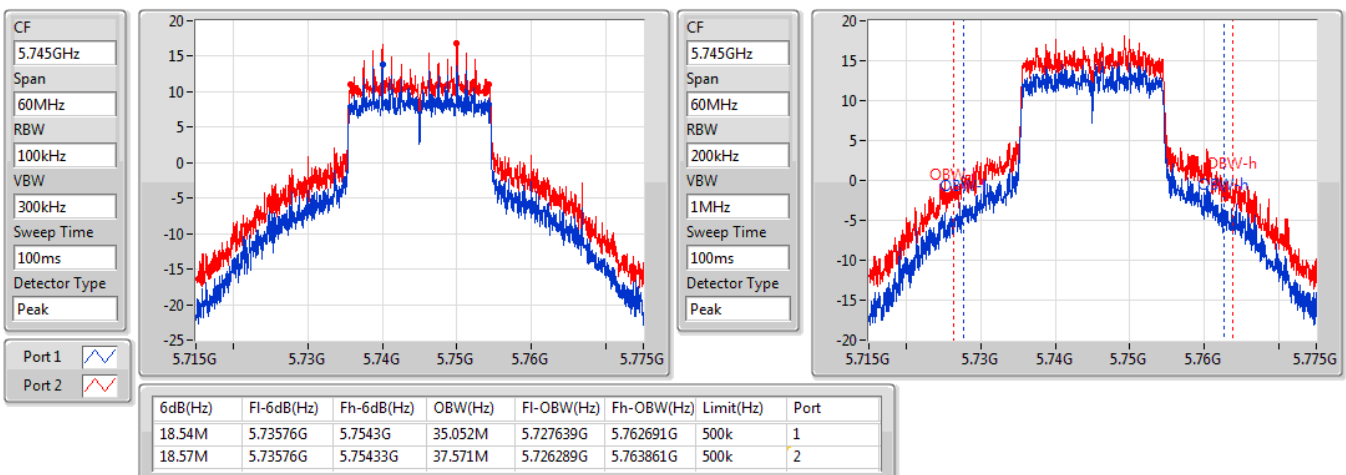
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5745MHz

08/07/2020

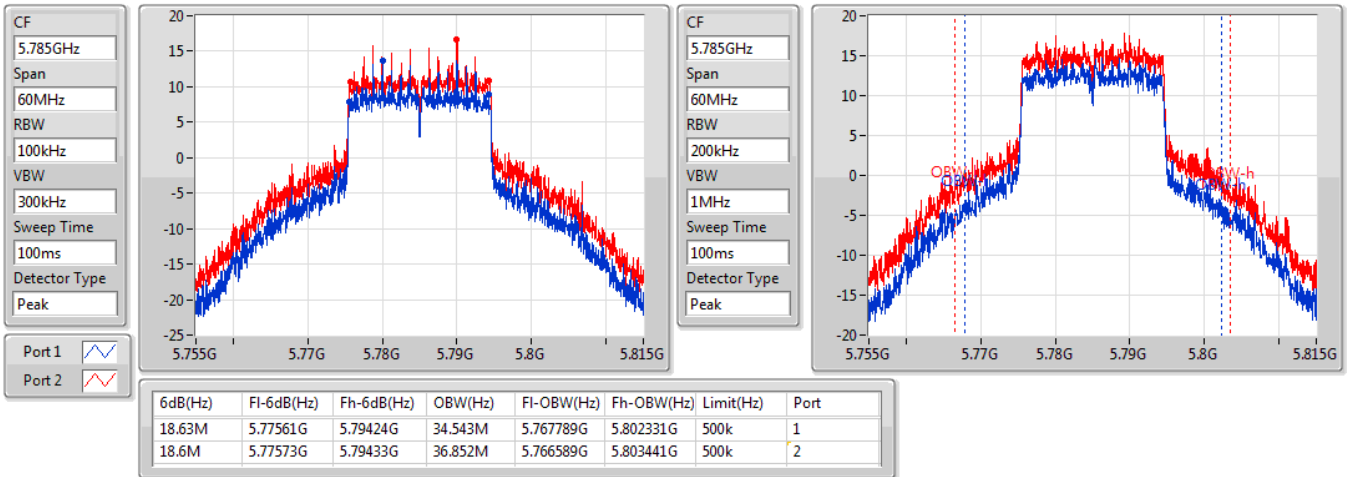


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5785MHz

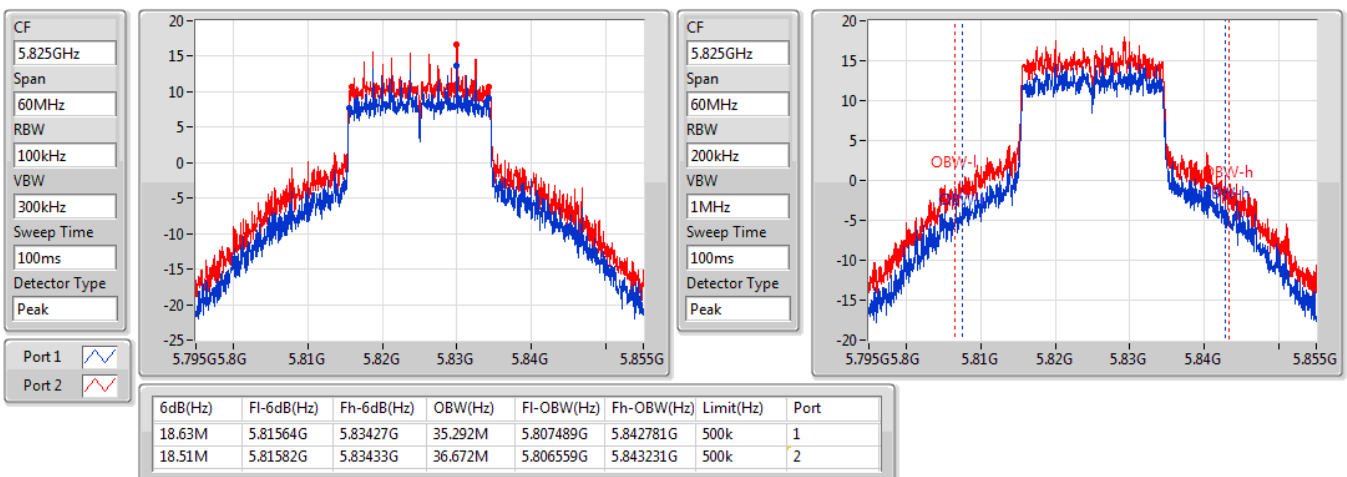
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5825MHz

08/07/2020

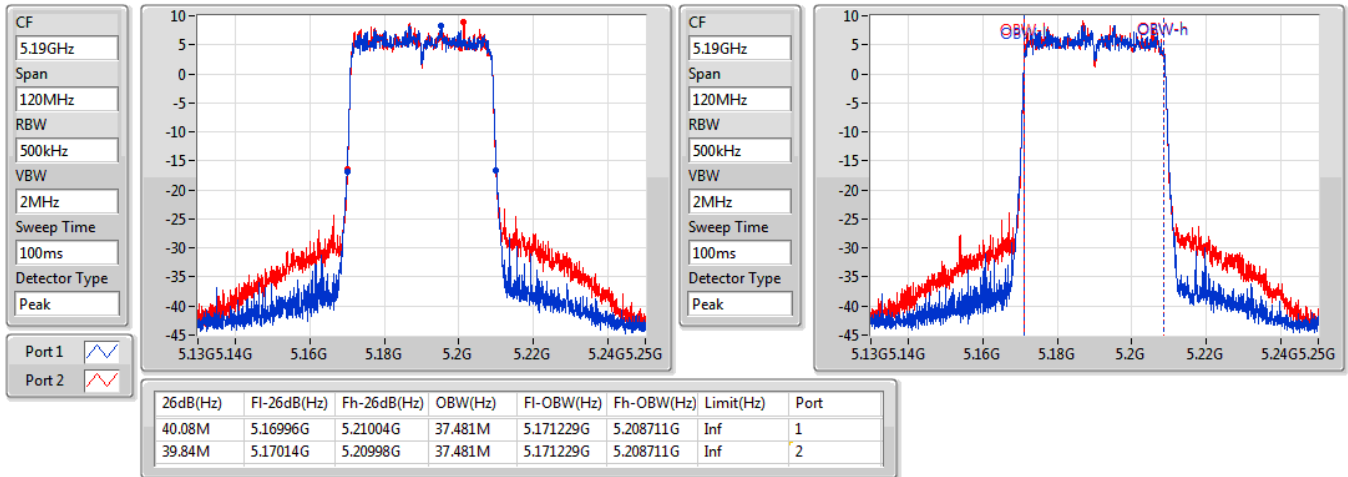


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5190MHz

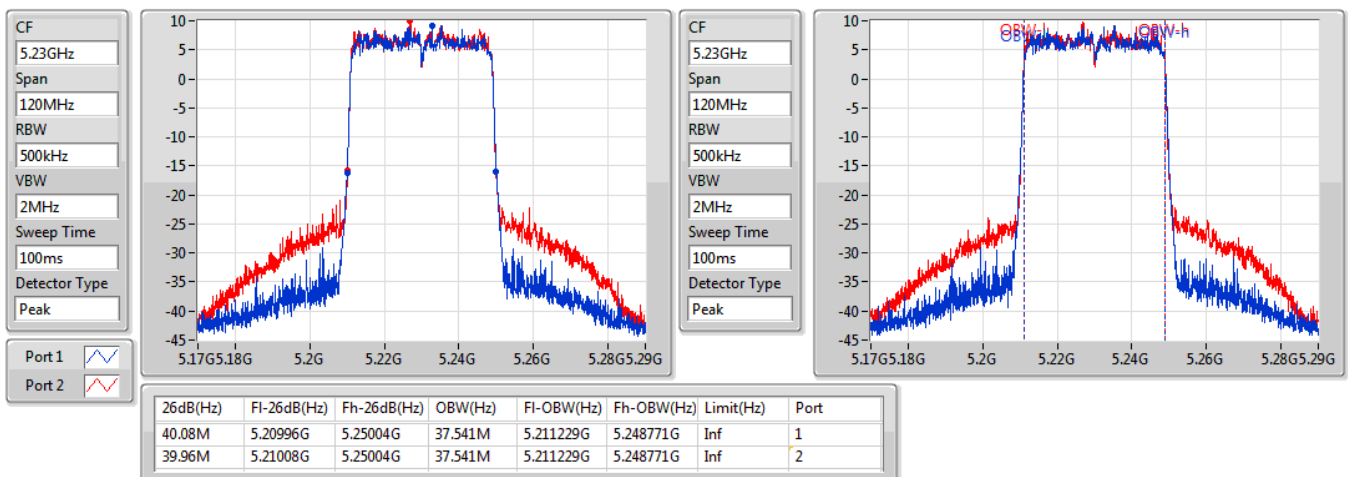
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5230MHz

11/07/2020

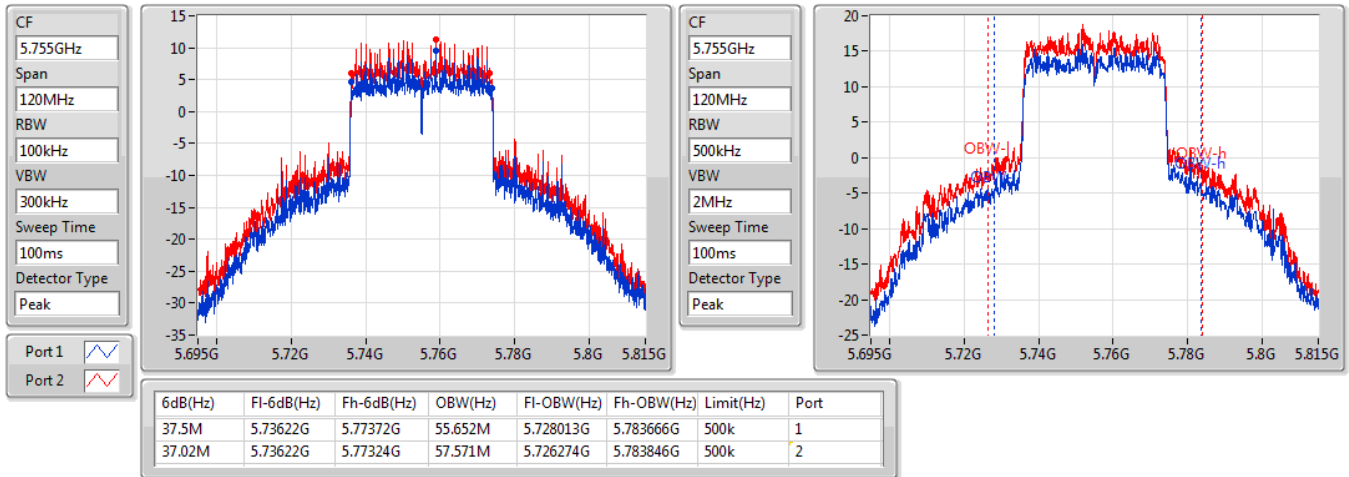


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5755MHz

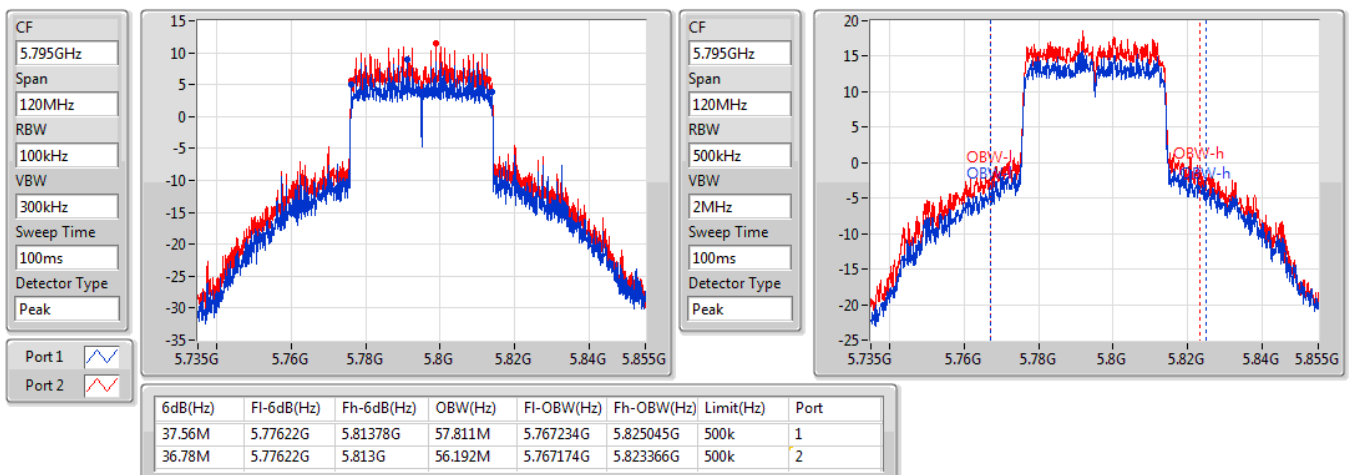
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5795MHz

08/07/2020

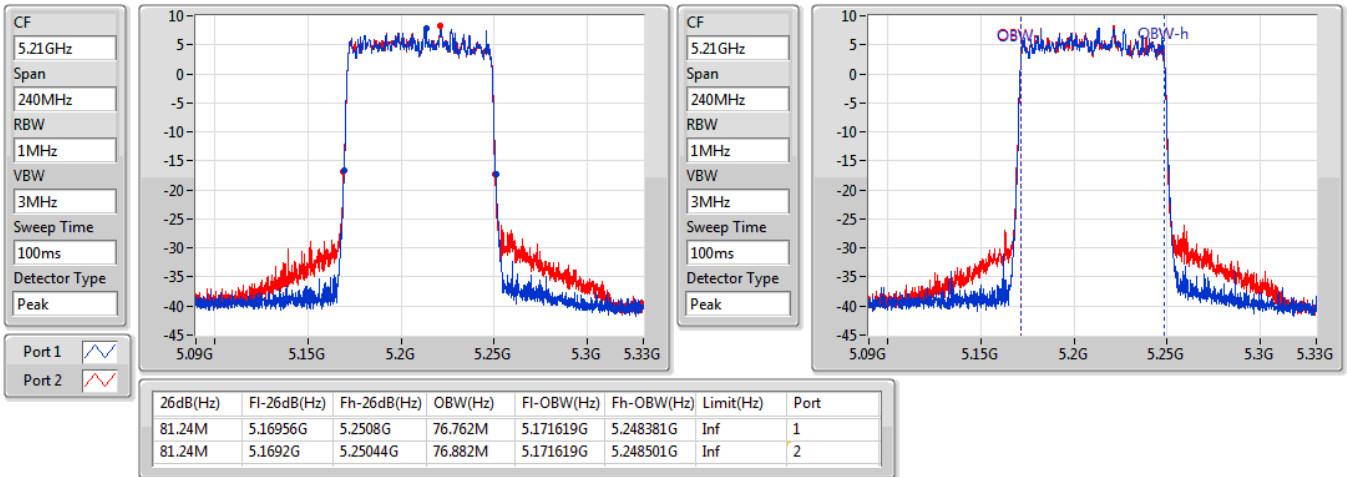


For EUT 1 / Radio 3 Band 1, Band 4_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5210MHz

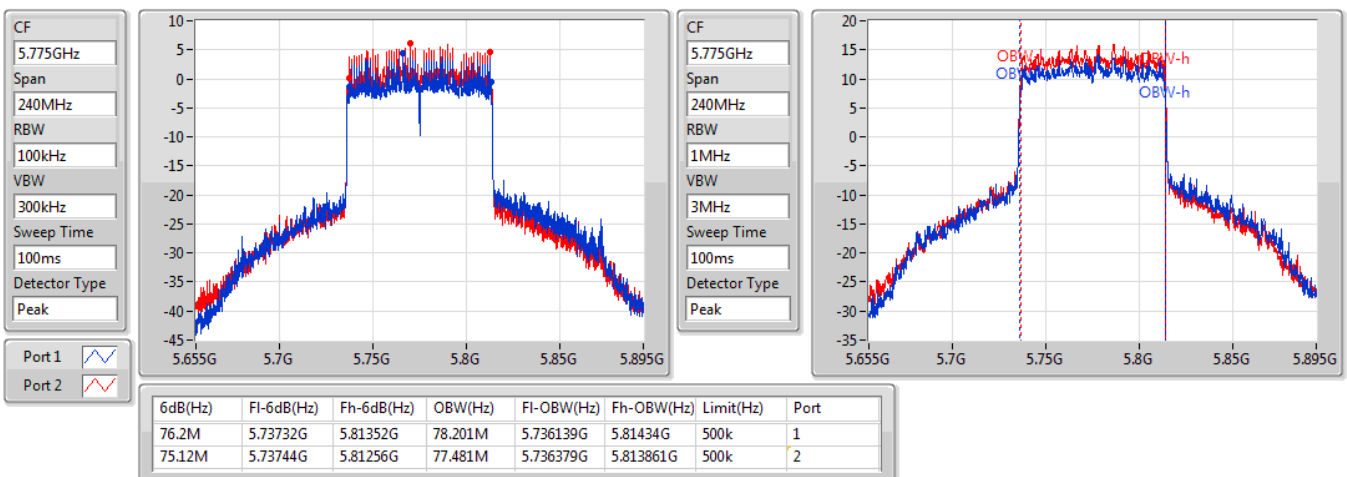
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802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5775MHz

08/07/2020



**For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.09M	17.031M	17M0D1D	21.21M	16.762M
802.11ax HEW20_Nss1,(MCS0)_2TX	31.65M	19.28M	19M3D1D	21.42M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	68.22M	37.841M	37M8D1D	39.96M	37.601M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.48M	76.762M	76M8D1D	81M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.96M	16.822M	16M8D1D	15.82M	13.416M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.89M	19.13M	19M1D1D	16.17M	14.553M
802.11ax HEW40_Nss1,(MCS0)_2TX	61.02M	37.841M	37M8D1D	39.9M	33.771M
802.11ax HEW80_Nss1,(MCS0)_2TX	112.92M	77.481M	77M5D1D	81.12M	73.201M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.18M	5.037M	5M04D1D	3.165M	4.918M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.485M	5.472M	5M47D1D	4.455M	5.217M
802.11ax HEW40_Nss1,(MCS0)_2TX	3.78M	19.925M	19M9D1D	3.765M	19.895M
802.11ax HEW80_Nss1,(MCS0)_2TX	3.6M	24.153M	24M2D1D	3.585M	23.868M

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;

**For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode
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	-	-	-	-	-	-
5260MHz	Pass	Inf	21.3M	16.762M	24.33M	16.912M
5300MHz	Pass	Inf	21.21M	16.762M	27M	16.912M
5320MHz	Pass	Inf	21.21M	16.762M	27.09M	17.031M
5500MHz	Pass	Inf	21.24M	16.762M	21.69M	16.732M
5580MHz	Pass	Inf	21.39M	16.822M	21.96M	16.792M
5700MHz	Pass	Inf	21.09M	16.762M	21.36M	16.672M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.82M	13.416M	15.925M	13.451M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.165M	5.037M	3.18M	4.918M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	22.2M	19.07M	26.19M	19.19M
5300MHz	Pass	Inf	22.71M	19.04M	31.65M	19.28M
5320MHz	Pass	Inf	21.42M	19.04M	28.08M	19.19M
5500MHz	Pass	Inf	21.42M	19.04M	21.42M	19.1M
5580MHz	Pass	Inf	21.27M	19.04M	22.89M	19.13M
5700MHz	Pass	Inf	21.42M	19.01M	21.51M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.17M	14.57M	16.258M	14.553M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.485M	5.472M	4.455M	5.217M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	49.5M	37.661M	68.22M	37.841M
5310MHz	Pass	Inf	40.02M	37.601M	39.96M	37.601M
5510MHz	Pass	Inf	40.14M	37.601M	39.9M	37.541M
5550MHz	Pass	Inf	40.26M	37.661M	61.02M	37.841M
5670MHz	Pass	Inf	40.32M	37.661M	39.96M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	48.938M	33.771M	52.725M	33.808M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	19.925M	3.765M	19.895M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.48M	76.762M	81M	76.762M
5530MHz	Pass	Inf	81.48M	76.762M	81.12M	76.882M
5610MHz	Pass	Inf	89.76M	77.121M	112.92M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	88.118M	73.201M	96.178M	73.278M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.6M	24.153M	3.585M	23.868M

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

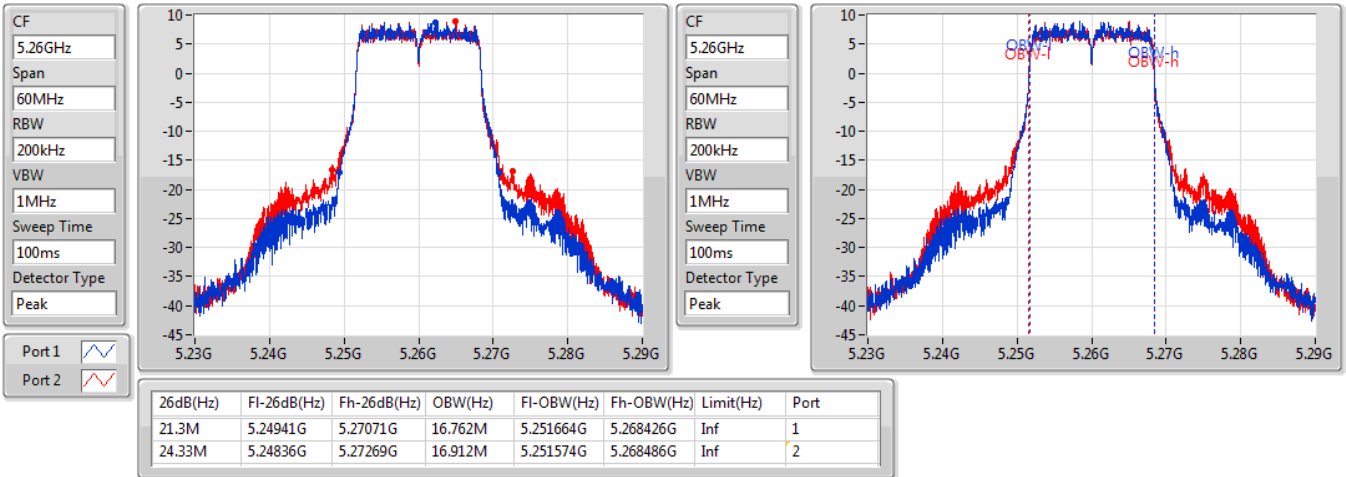
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5260MHz

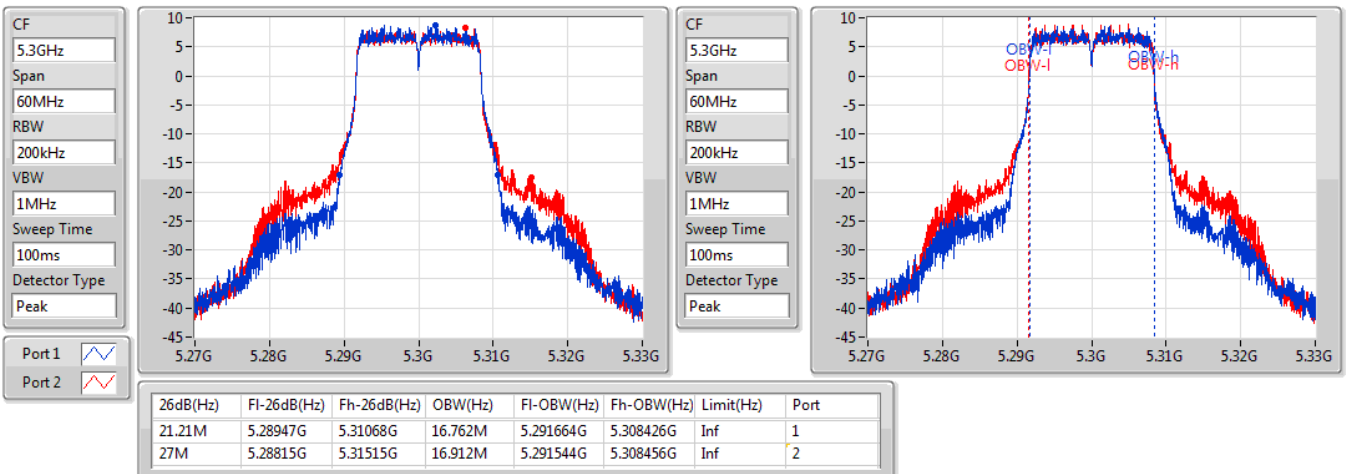
13/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5300MHz

13/07/2020

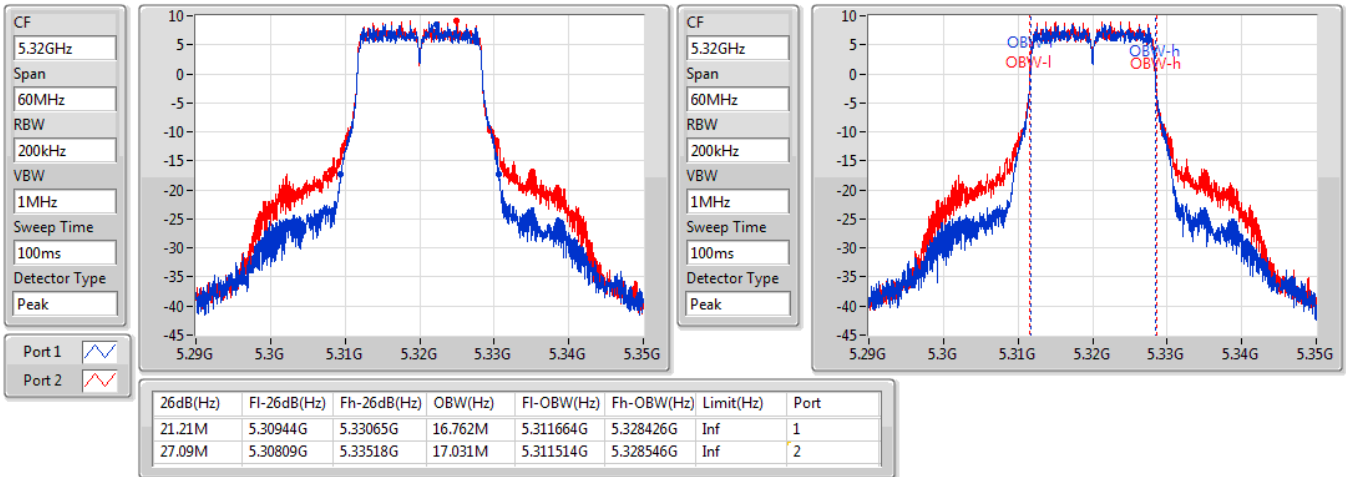


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5320MHz

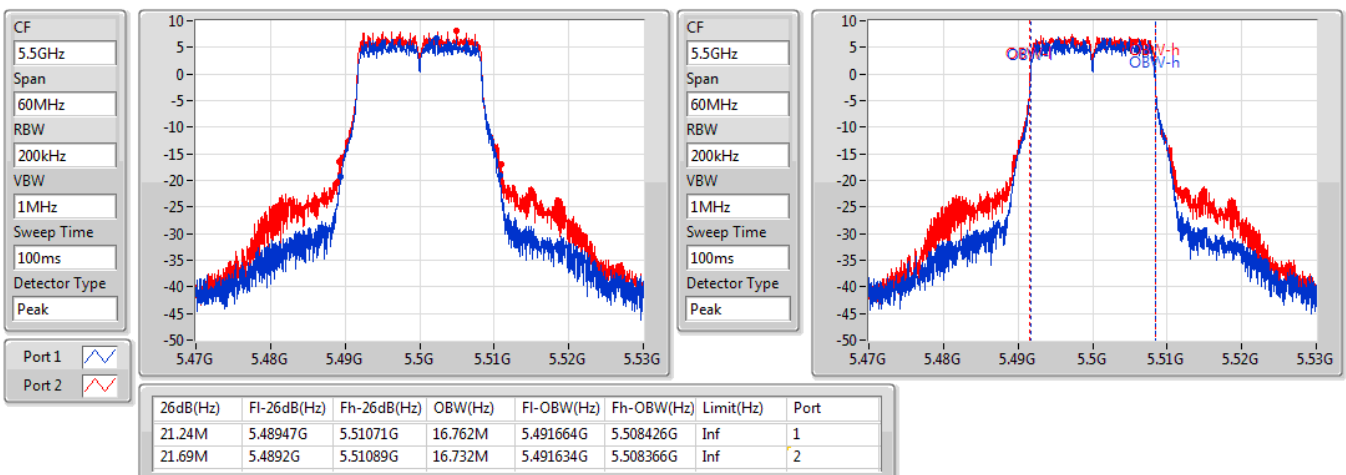
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802.11a_Nss1,(6Mbps)_2TX

EBW
5500MHz

13/07/2020

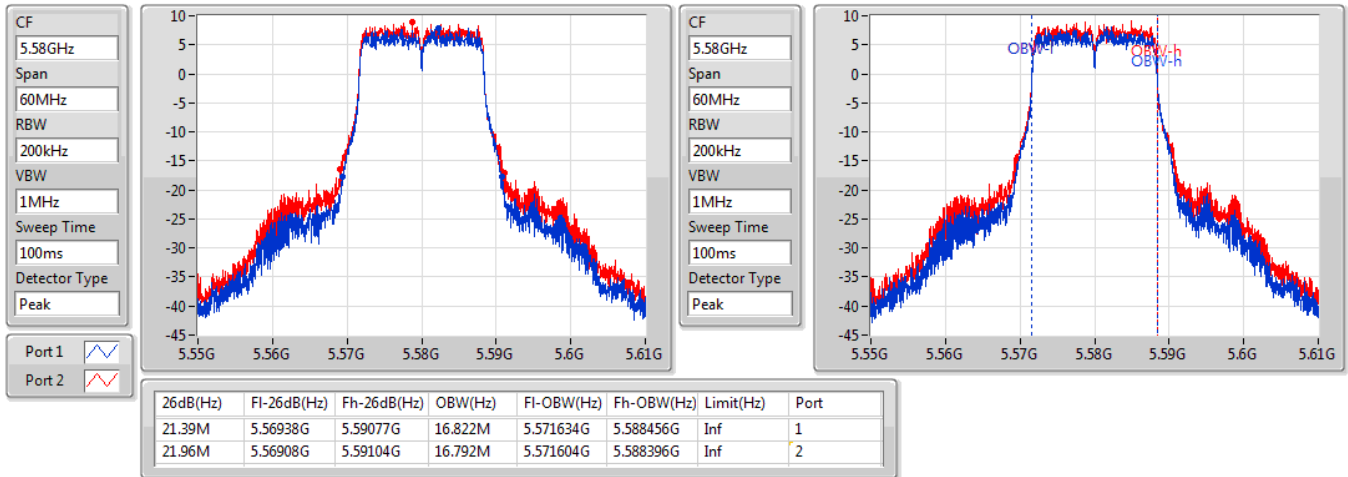


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5580MHz

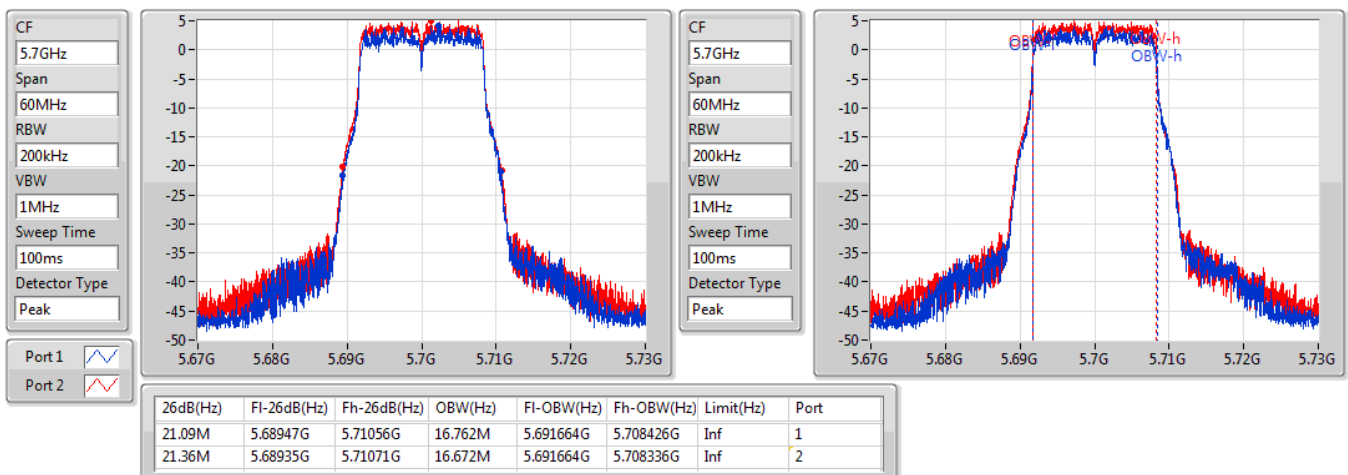
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802.11a_Nss1,(6Mbps)_2TX

EBW
5700MHz

13/07/2020



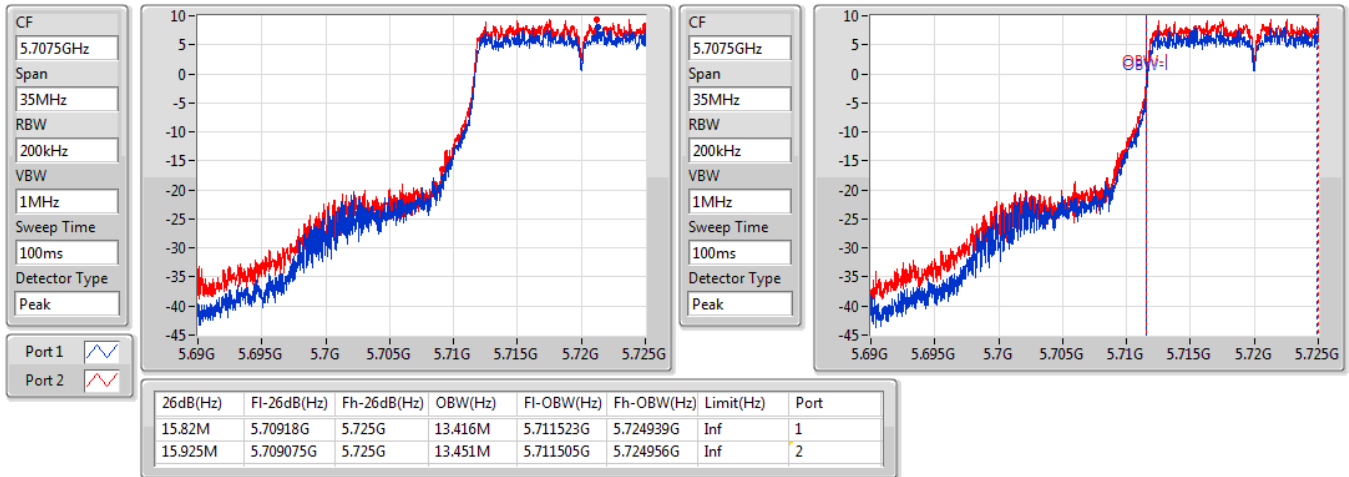
For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

13/07/2020

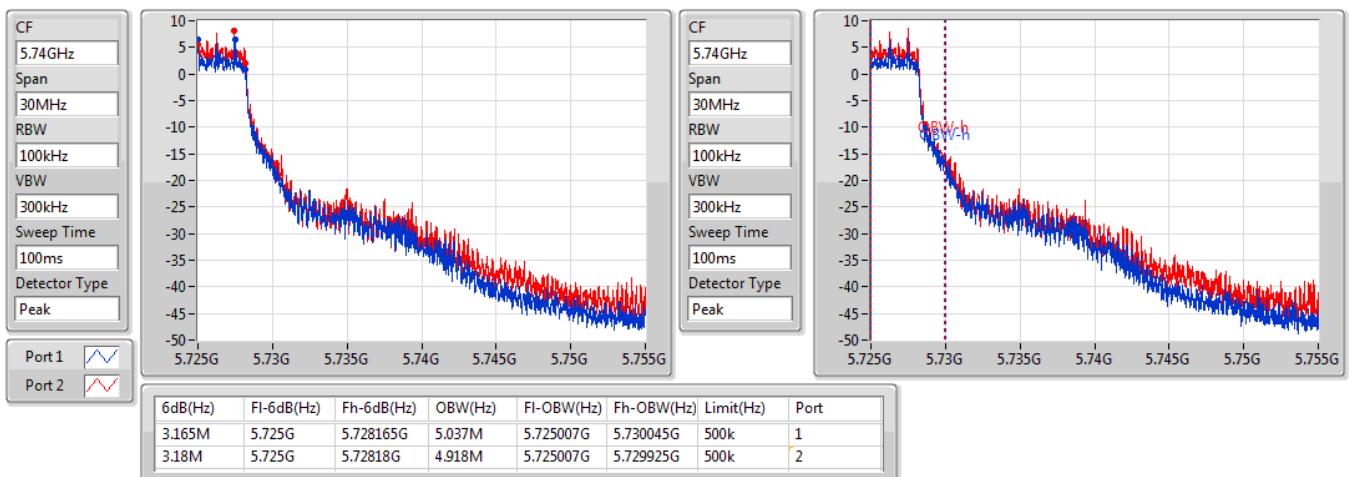


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

13/07/2020

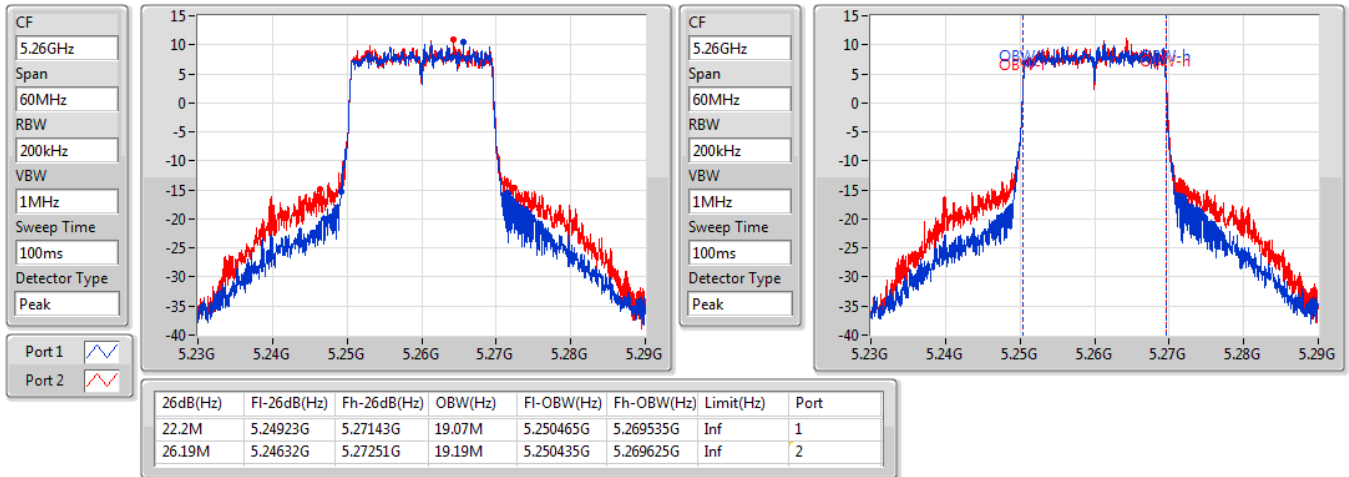


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5260MHz

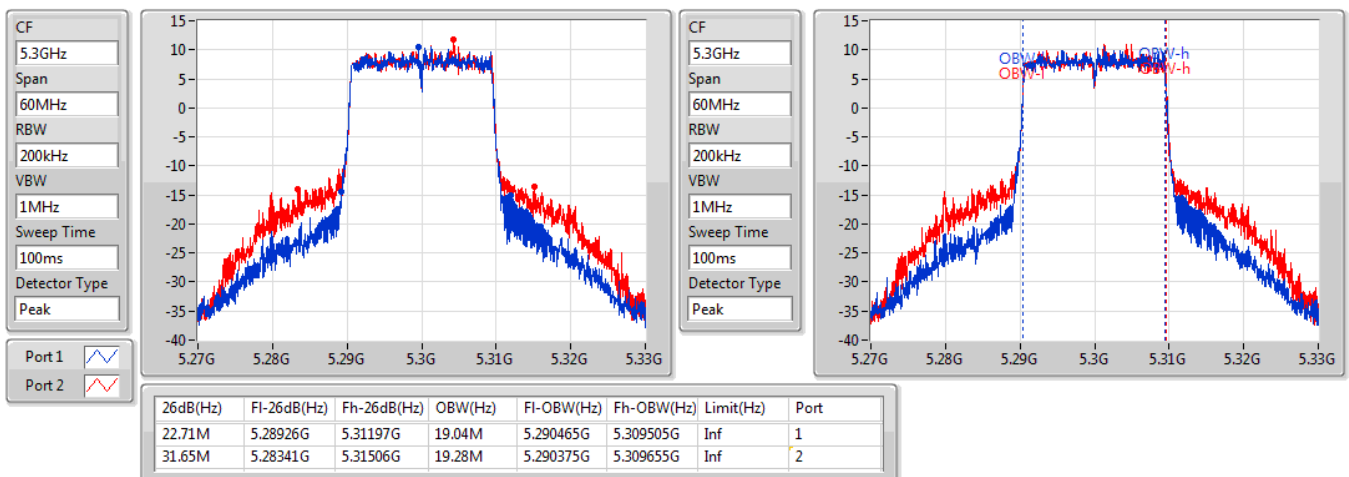
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5300MHz

13/07/2020

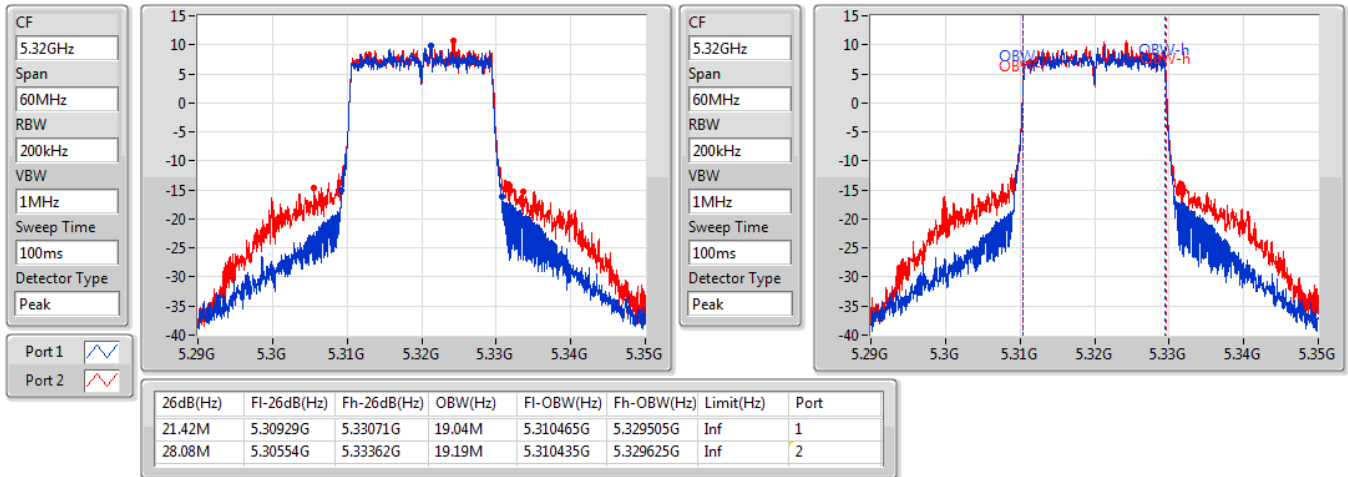


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5320MHz

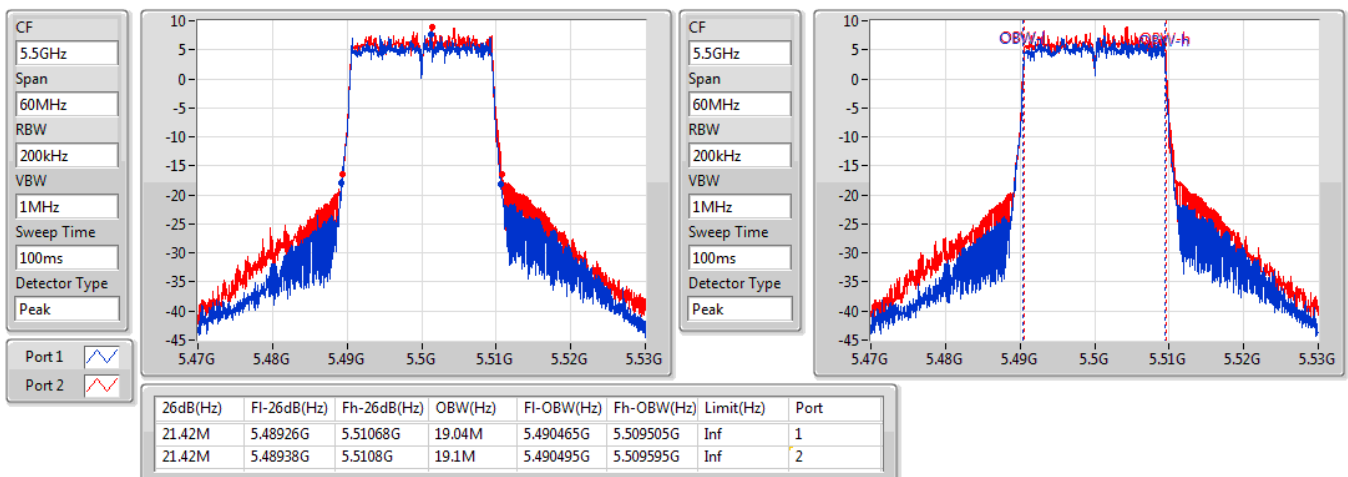
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5500MHz

13/07/2020

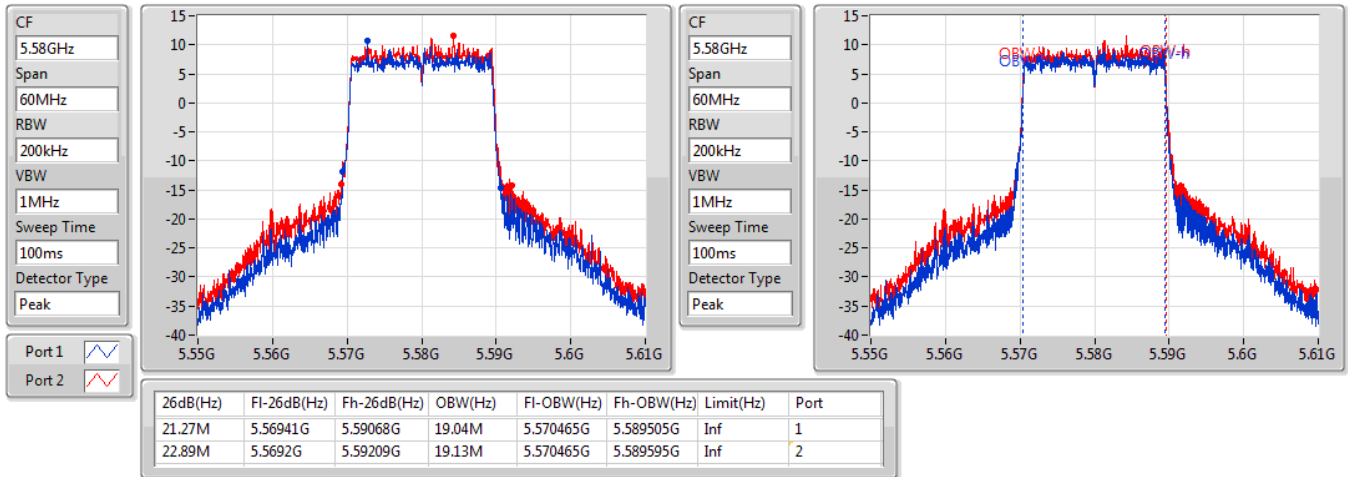


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5580MHz

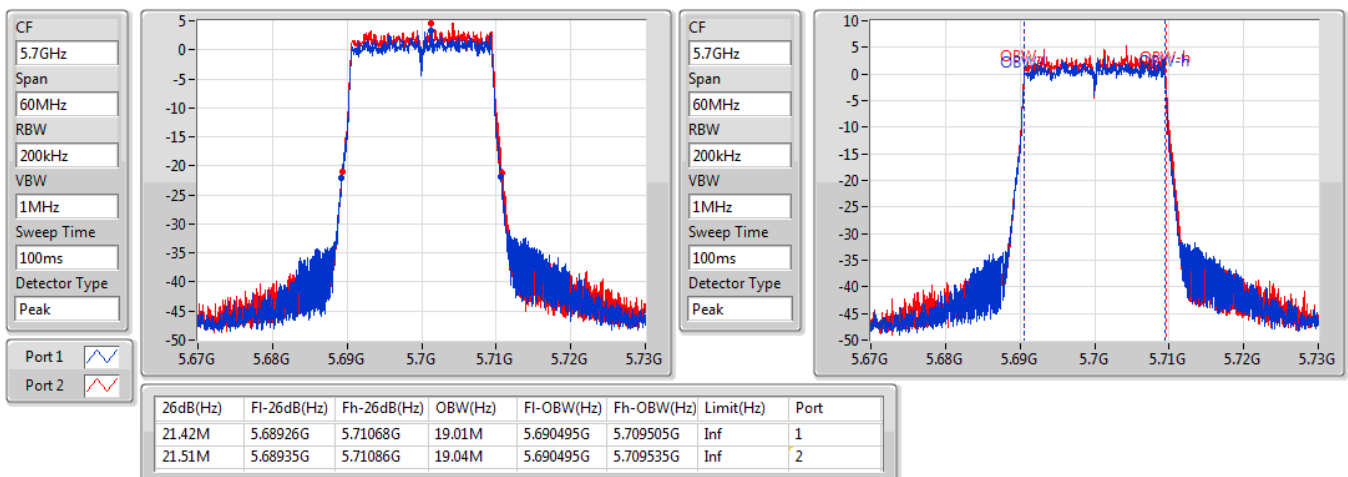
13/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5700MHz

13/07/2020



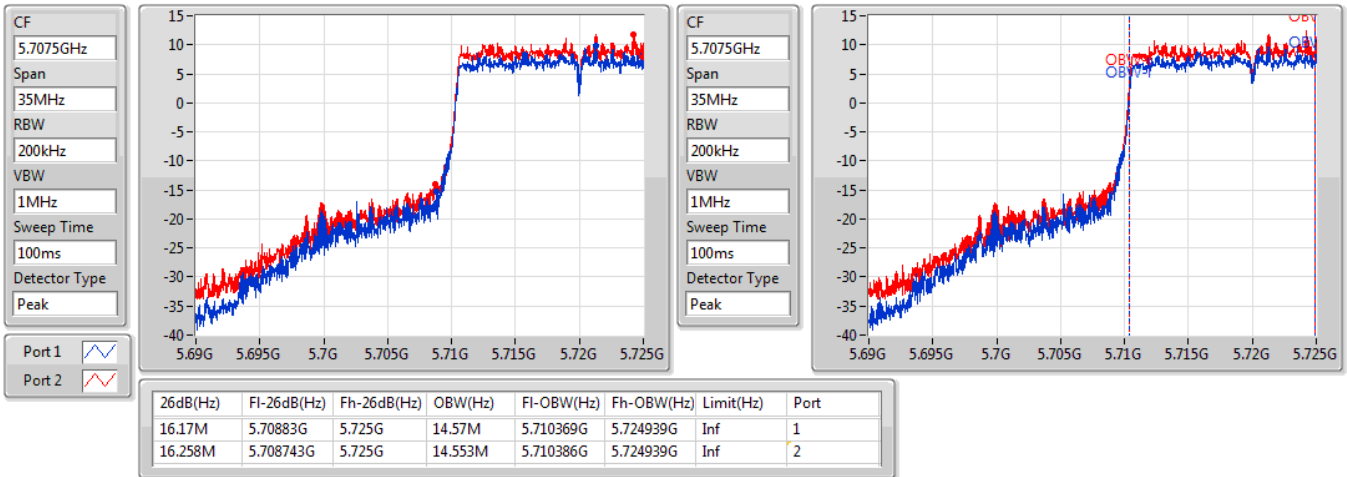
For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

13/07/2020

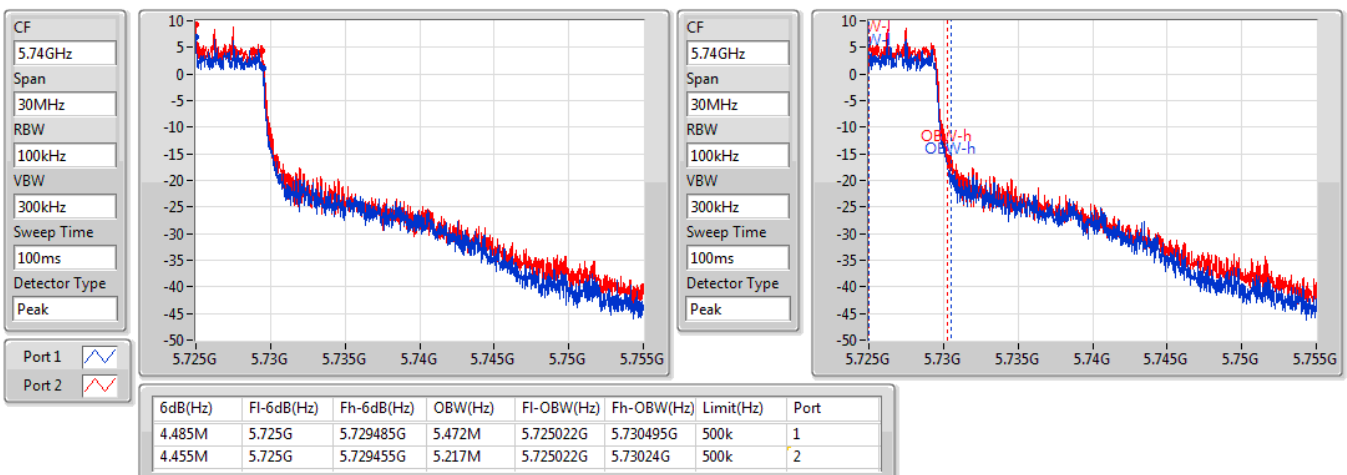


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

13/07/2020

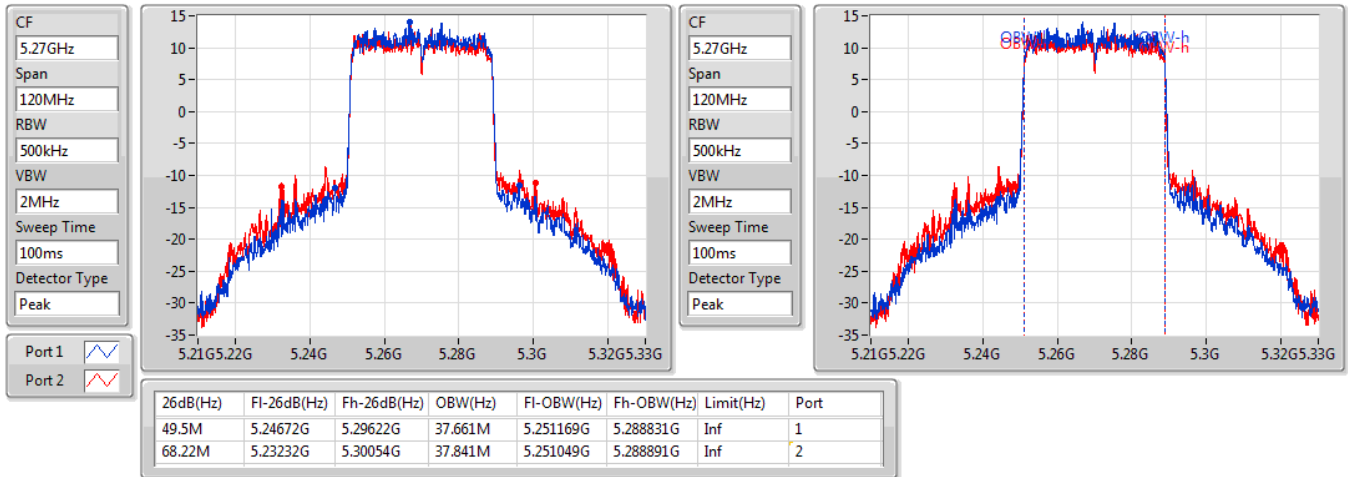


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5270MHz

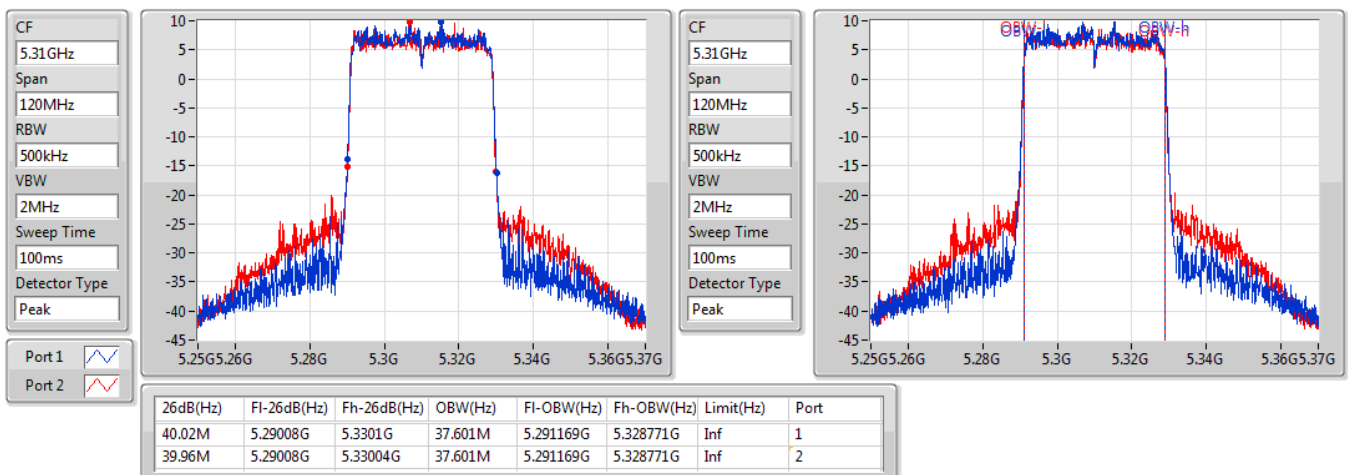
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5310MHz

13/07/2020

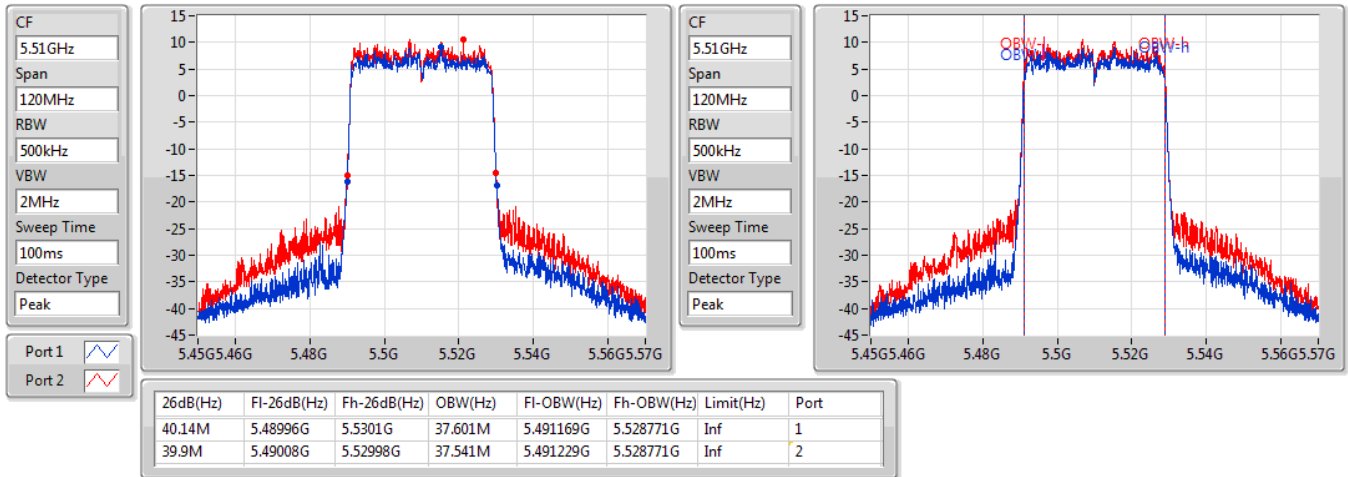


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5510MHz

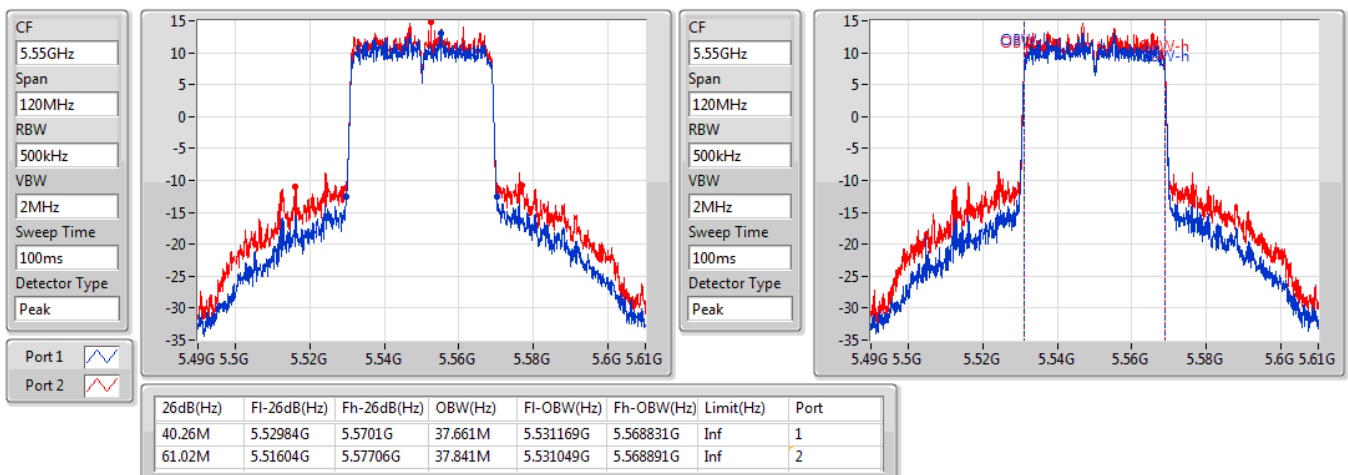
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5550MHz

13/07/2020

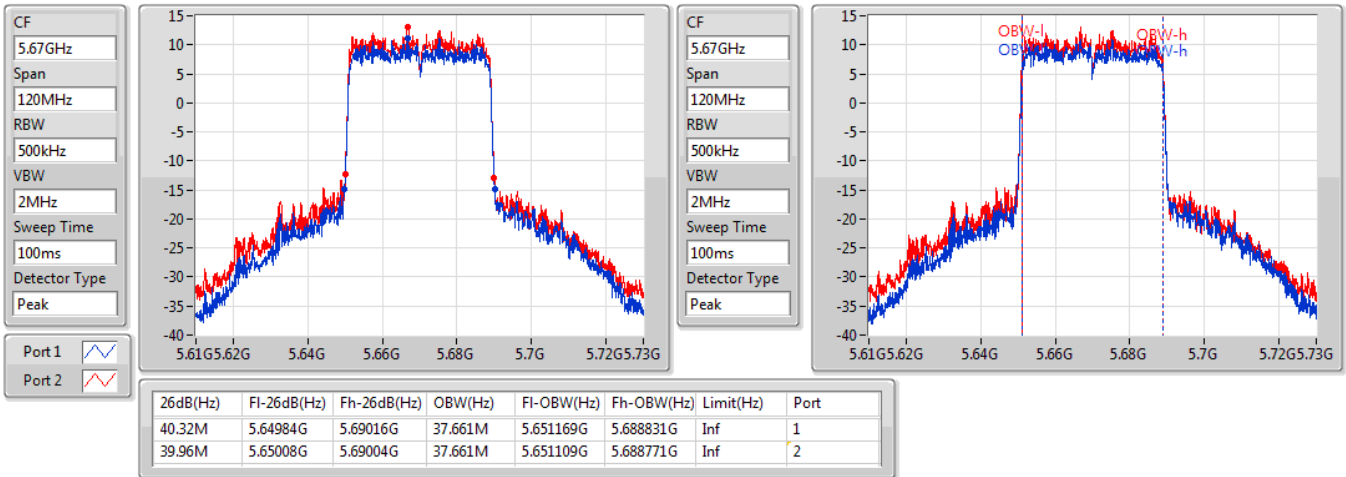


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5670MHz

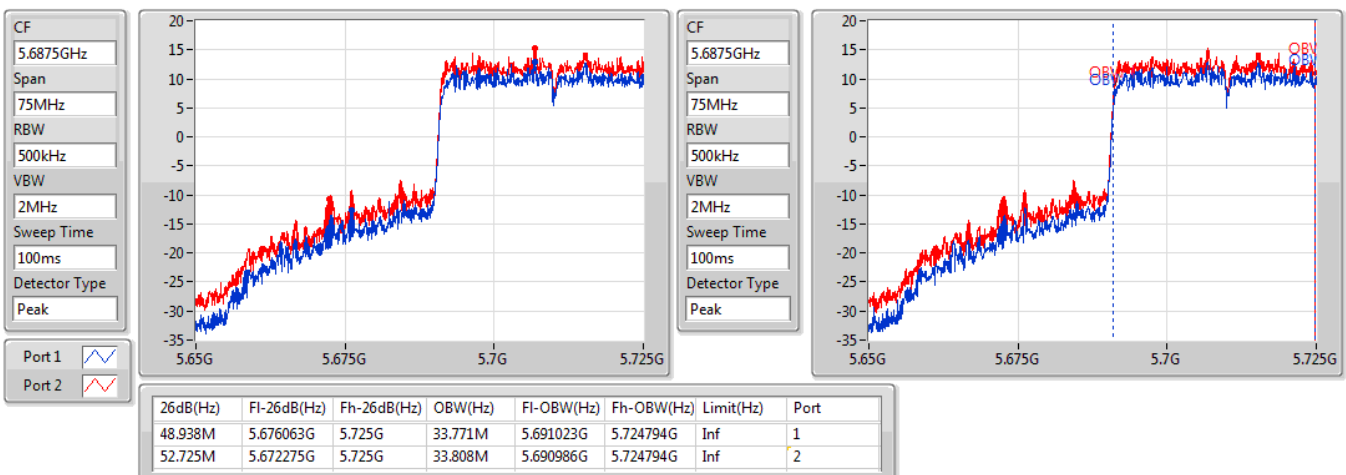
13/07/2020



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5710MHz Straddle 5.47-5.725GHz

13/07/2020



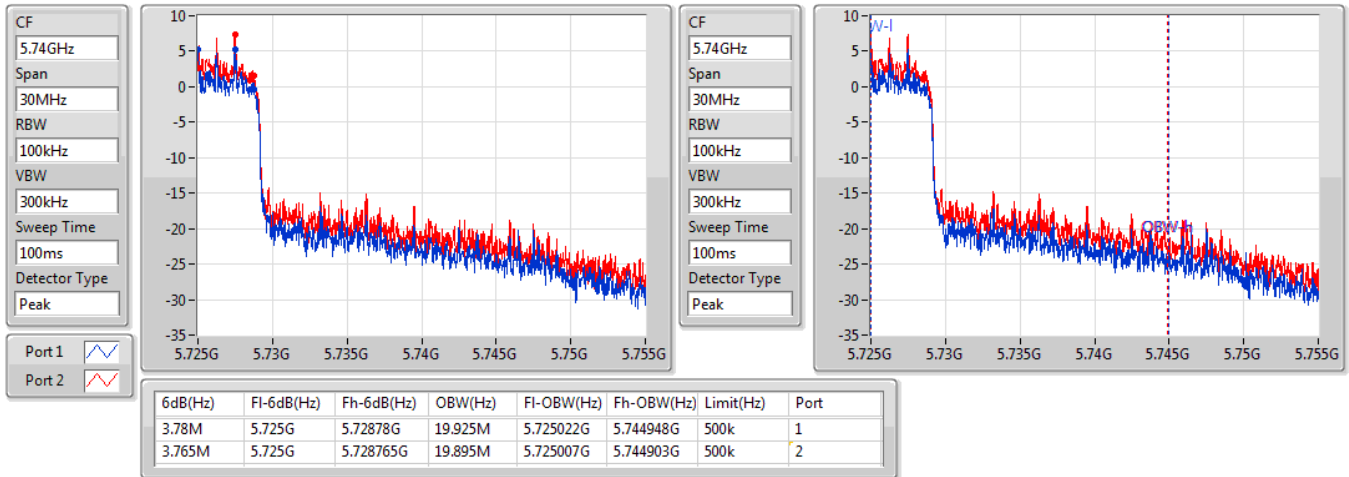
For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

13/07/2020

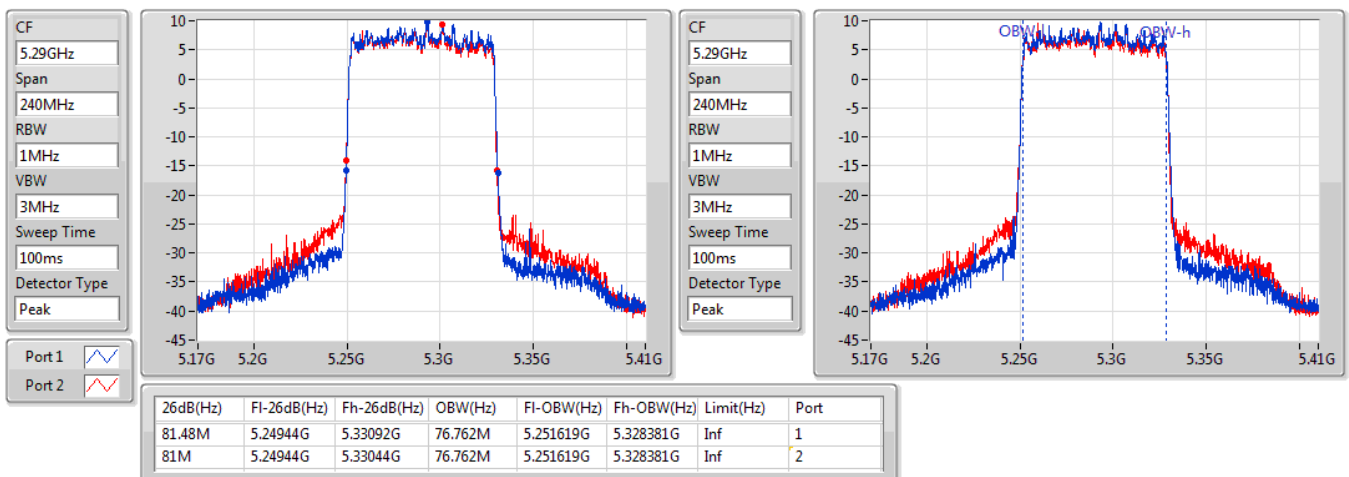


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

13/07/2020

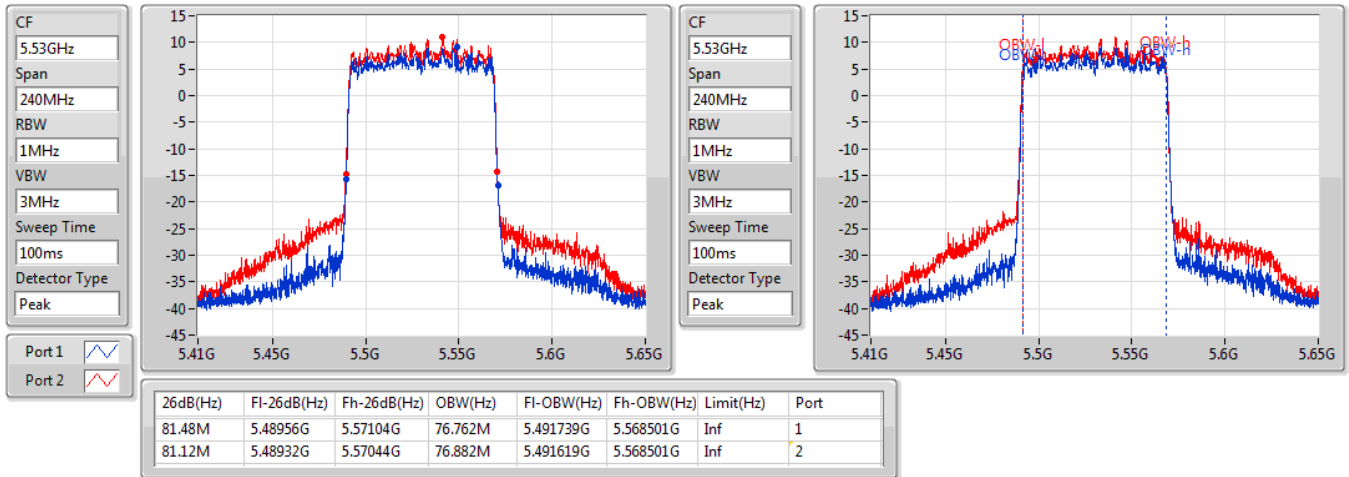


For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5530MHz

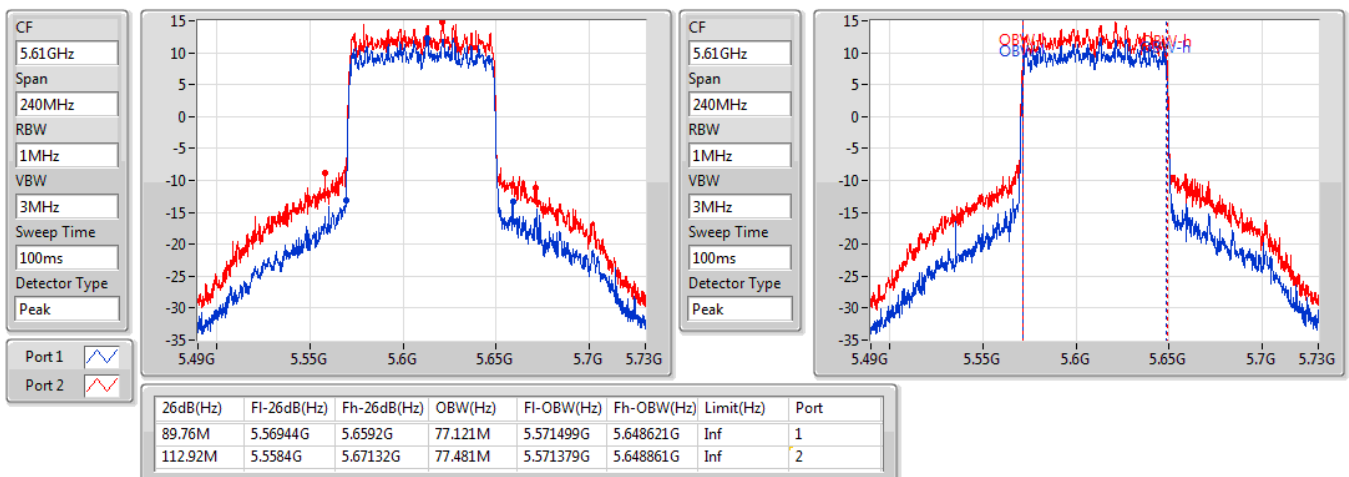
13/07/2020



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5610MHz

13/07/2020



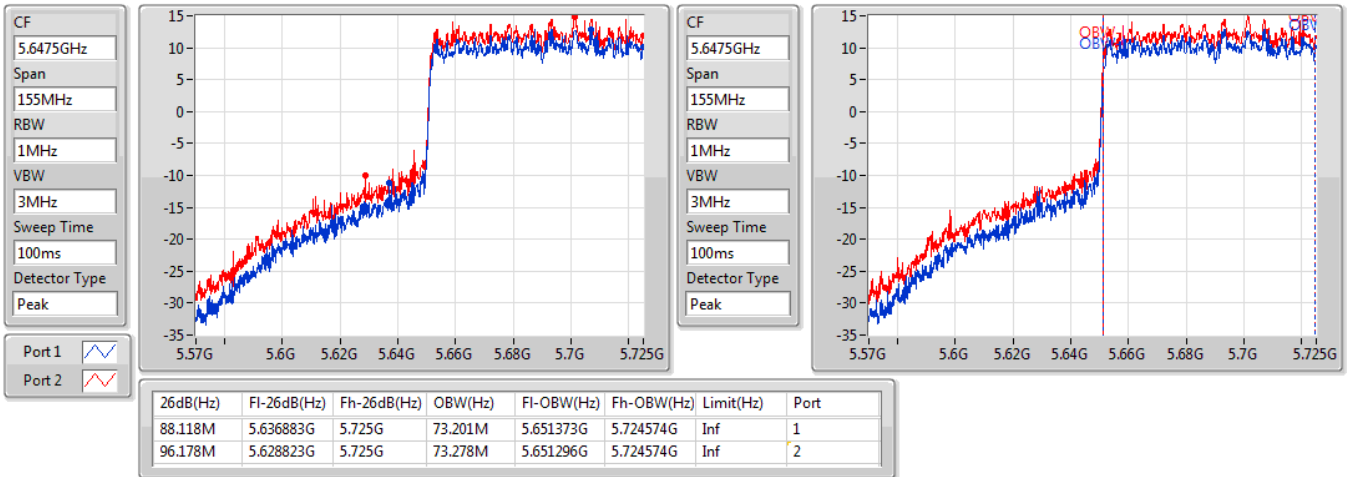
For EUT 1 / Radio 3 Band 2 ~ Band 3_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

13/07/2020

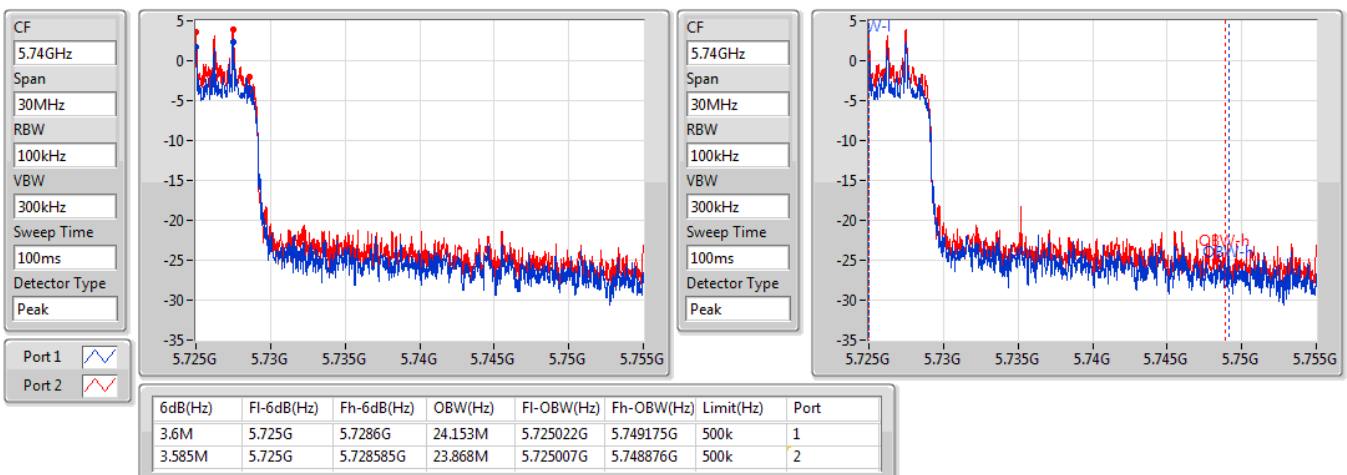


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

13/07/2020



**For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.39M	16.822M	16M8D1D	21.15M	16.702M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	19.13M	19M1D1D	21.27M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.601M	37M6D1D	39.9M	37.541M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.96M	76.882M	76M9D1D	81.12M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	40.03M	40M0D1D	16.32M	18.591M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.84M	45.067M	45M1D1D	18M	21.229M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.62M	73.763M	73M8D1D	35.52M	45.697M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.2M	97.271M	97M3D1D	75M	77.961M

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;

**For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.21M	16.762M	21.3M	16.822M	21.3M	16.792M	21.36M	16.732M
5200MHz	Pass	Inf	21.15M	16.702M	21.3M	16.822M	21.3M	16.732M	21.33M	16.702M
5240MHz	Pass	Inf	21.24M	16.762M	21.39M	16.822M	21.36M	16.792M	21.27M	16.702M
5745MHz	Pass	500k	16.32M	25.187M	16.35M	28.336M	16.32M	40.03M	16.32M	30.615M
5785MHz	Pass	500k	16.35M	18.591M	16.35M	22.249M	16.35M	26.567M	16.35M	24.468M
5825MHz	Pass	500k	16.32M	18.681M	16.32M	22.729M	16.35M	26.357M	16.35M	24.768M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.48M	19.01M	21.27M	19.07M	21.48M	19.07M	21.48M	19.13M
5200MHz	Pass	Inf	21.39M	19.04M	21.39M	19.07M	21.54M	19.04M	21.48M	19.07M
5240MHz	Pass	Inf	21.51M	19.04M	21.39M	19.04M	21.57M	19.07M	21.57M	19.13M
5745MHz	Pass	500k	18.81M	25.787M	18.72M	30.045M	18.6M	39.16M	18.69M	31.604M
5785MHz	Pass	500k	18.45M	30.525M	18.72M	33.583M	18.63M	45.067M	18.75M	37.031M
5825MHz	Pass	500k	18.84M	21.229M	18.42M	27.226M	18M	31.574M	18.72M	28.546M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.541M	39.96M	37.541M	39.96M	37.541M	40.14M	37.601M
5230MHz	Pass	Inf	40.02M	37.541M	39.9M	37.541M	39.96M	37.541M	40.08M	37.541M
5755MHz	Pass	500k	37.08M	45.697M	36.06M	50.315M	37.56M	61.289M	37.08M	60.75M
5795MHz	Pass	500k	37.62M	59.97M	35.52M	63.808M	37.56M	73.763M	36.78M	73.583M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.24M	76.762M	81.12M	76.882M	81.6M	76.762M	81.96M	76.762M
5775MHz	Pass	500k	76.2M	77.961M	75.72M	79.52M	75M	96.552M	76.08M	97.271M

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

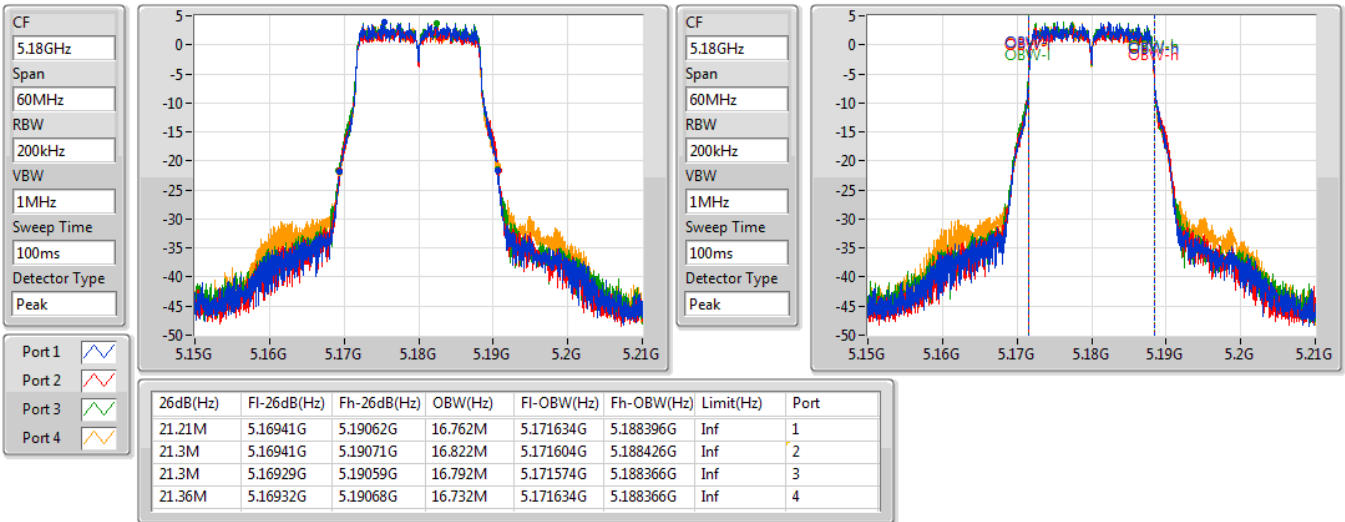
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5180MHz

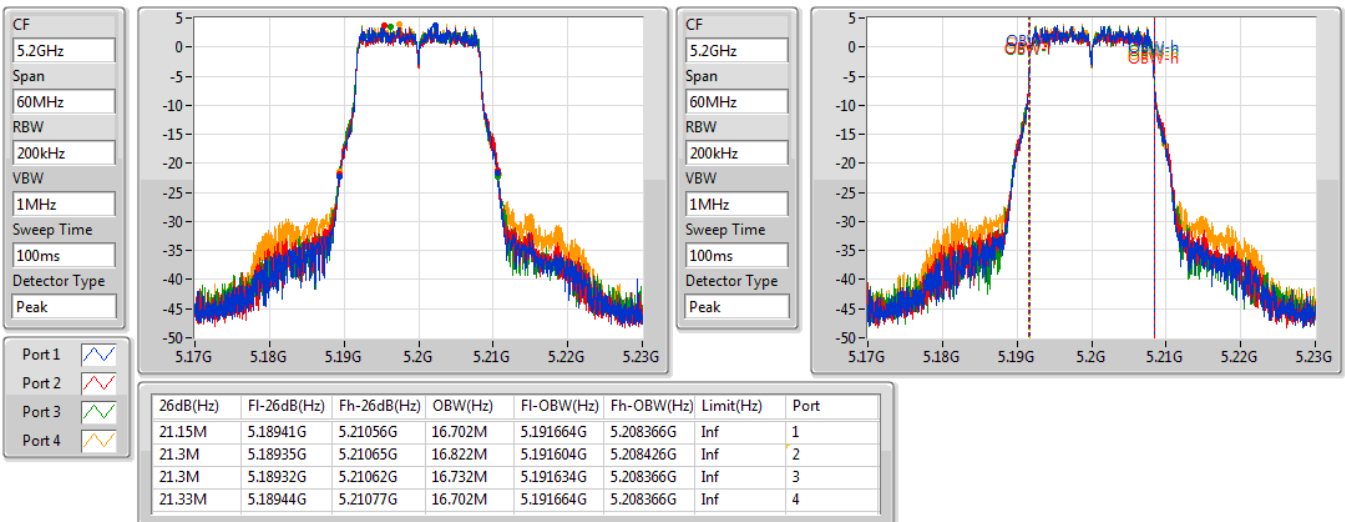
21/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5200MHz

21/07/2020

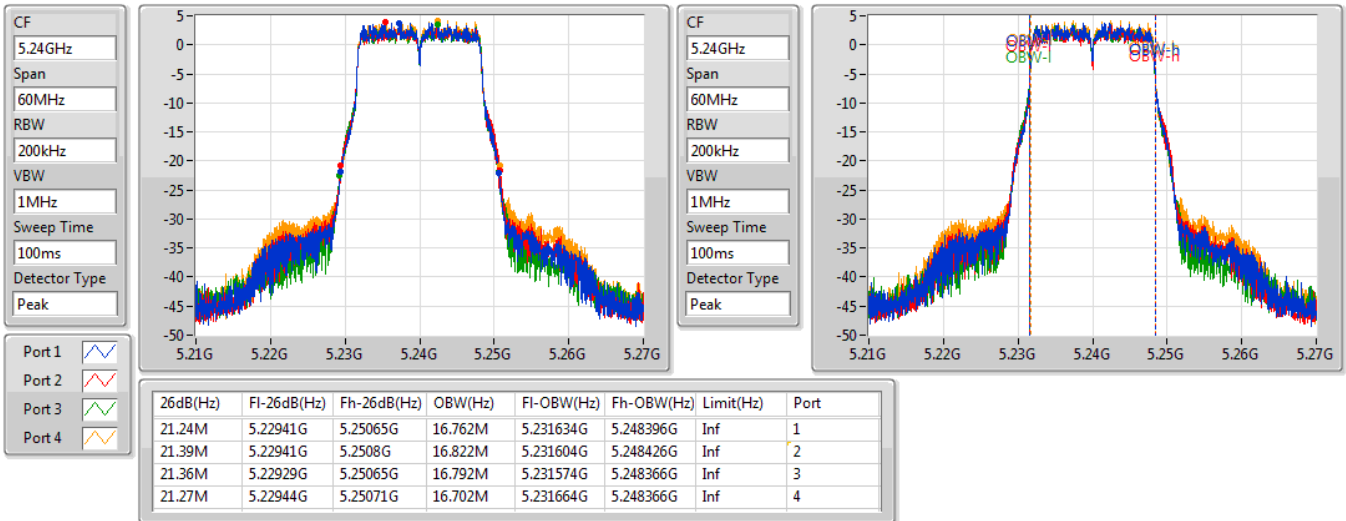


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5240MHz

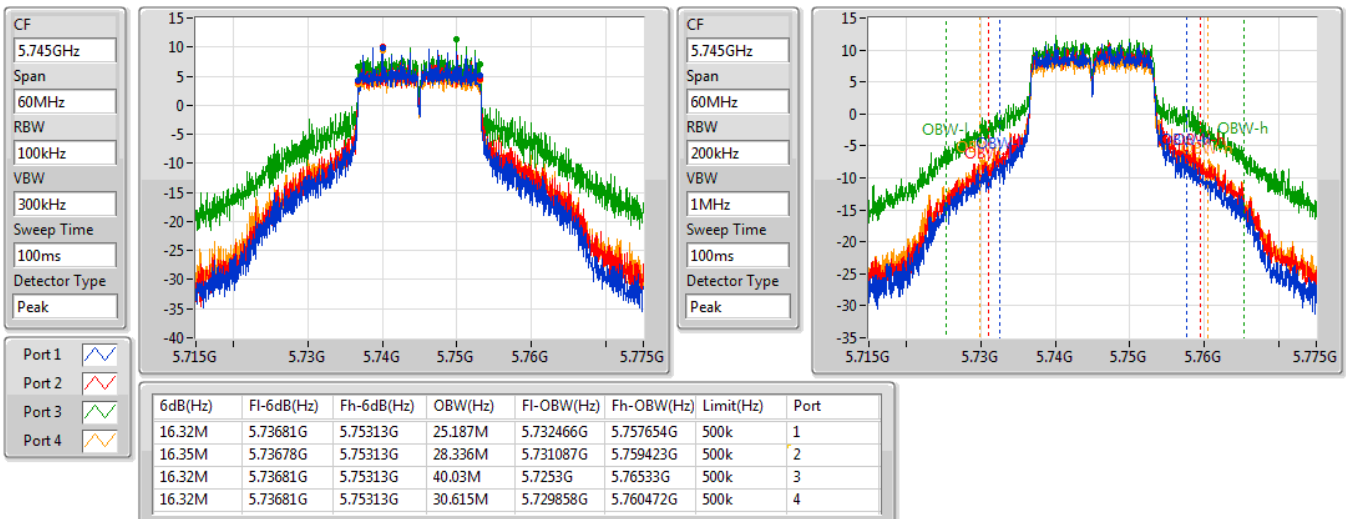
21/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5745MHz

10/07/2020



For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5785MHz

13/07/2020

CF
5.785GHz

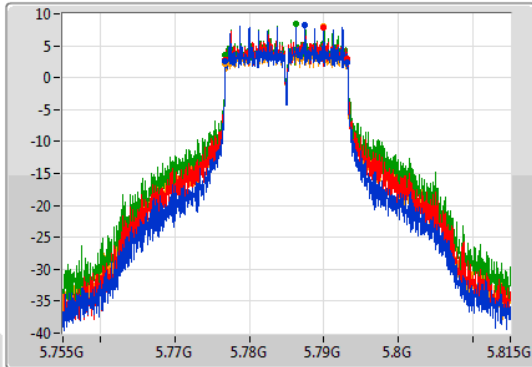
Span
60MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



CF
5.785GHz

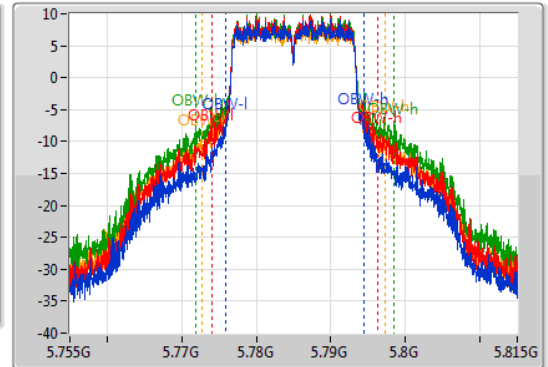
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.77681G	5.79316G	18.591M	5.775825G	5.794415G	500k	1
16.35M	5.77681G	5.79316G	22.249M	5.774055G	5.796304G	500k	2
16.35M	5.77681G	5.79316G	26.567M	5.771867G	5.798433G	500k	3
16.35M	5.77681G	5.79316G	24.468M	5.772766G	5.797234G	500k	4

802.11a_Nss1,(6Mbps)_4TX

EBW
5825MHz

13/07/2020

CF
5.825GHz

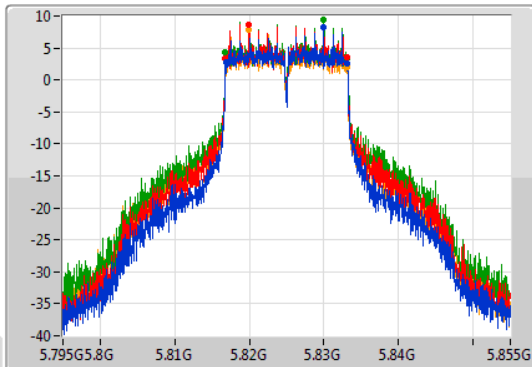
Span
60MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



CF
5.825GHz

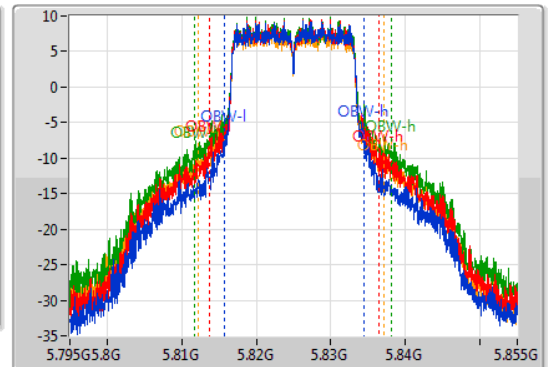
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



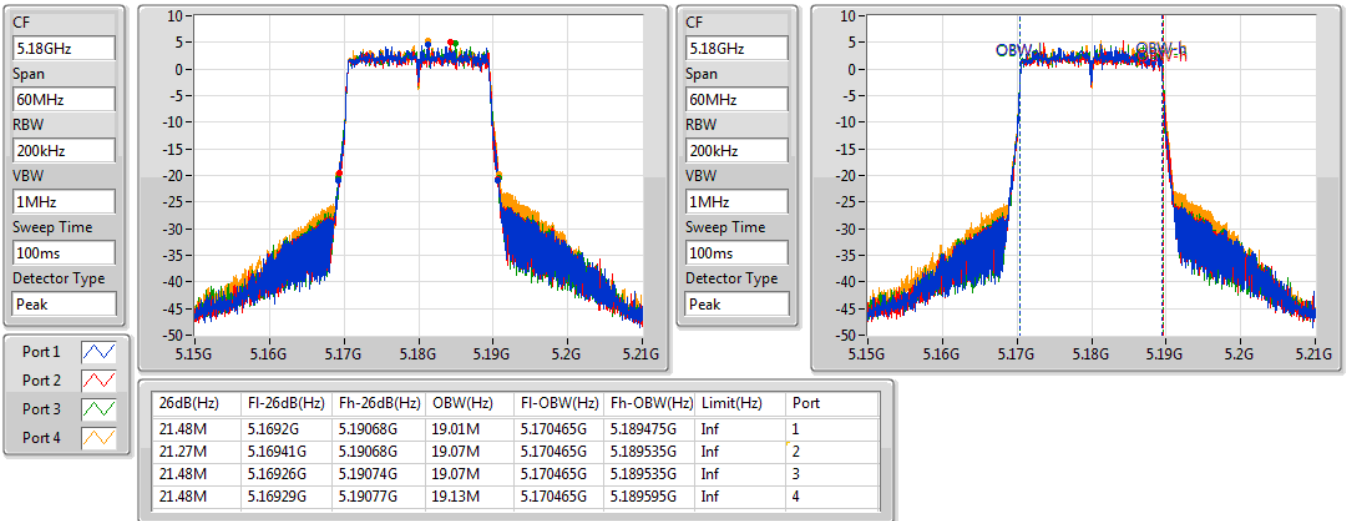
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.81684G	5.83316G	18.681M	5.815705G	5.834385G	500k	1
16.32M	5.81684G	5.83316G	22.729M	5.813756G	5.836484G	500k	2
16.35M	5.81681G	5.83316G	26.357M	5.811687G	5.838043G	500k	3
16.35M	5.81681G	5.83316G	24.768M	5.812286G	5.837054G	500k	4

For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5180MHz

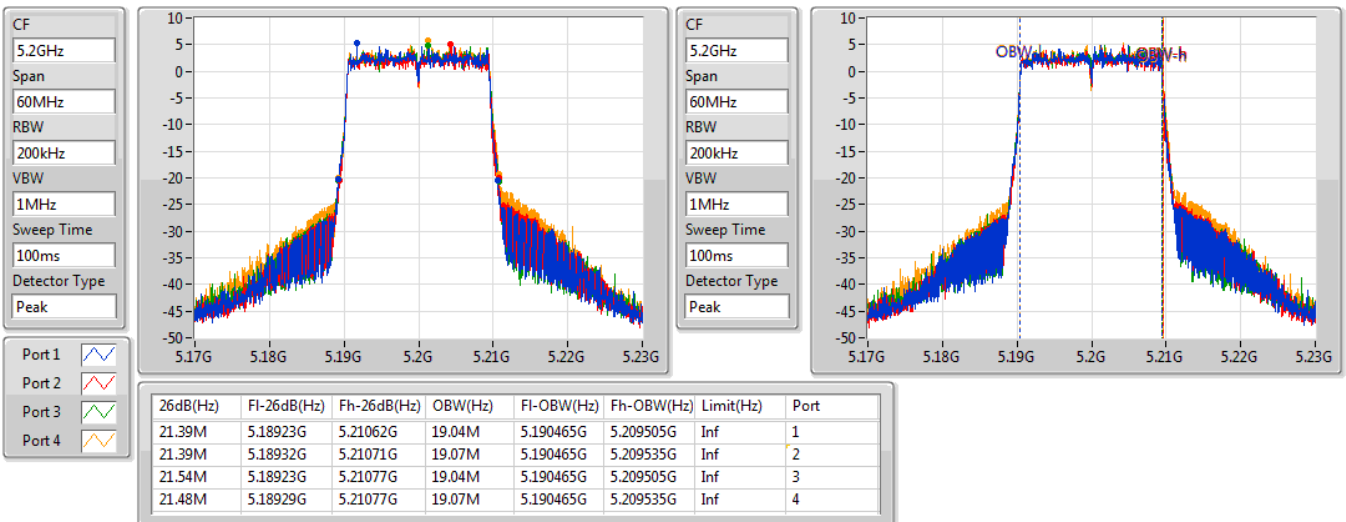
21/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5200MHz

21/07/2020

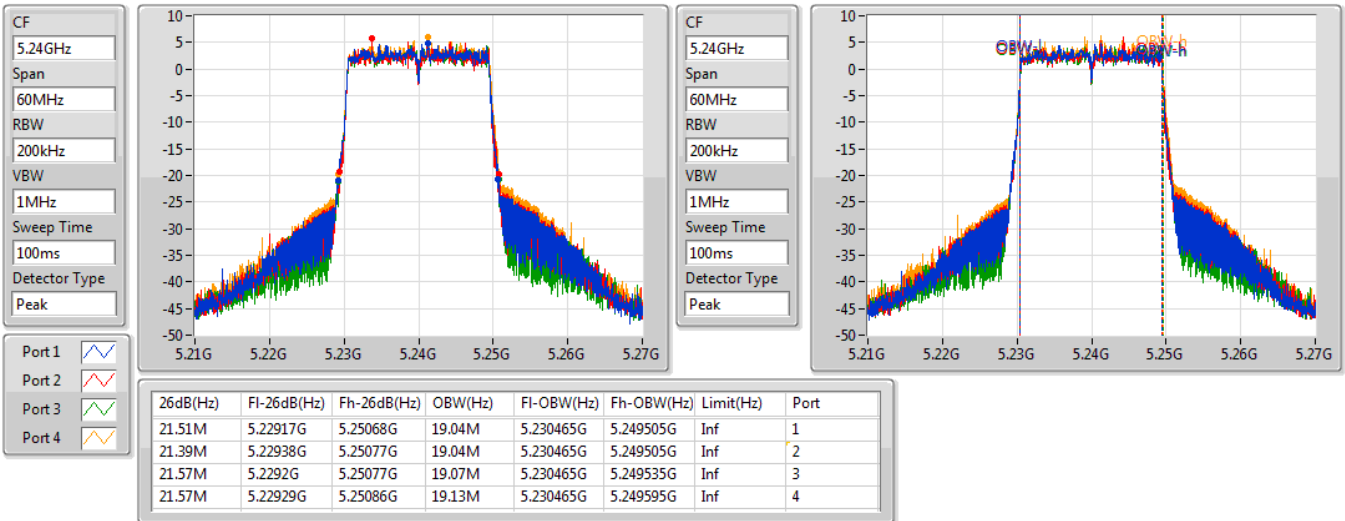


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

5240MHz

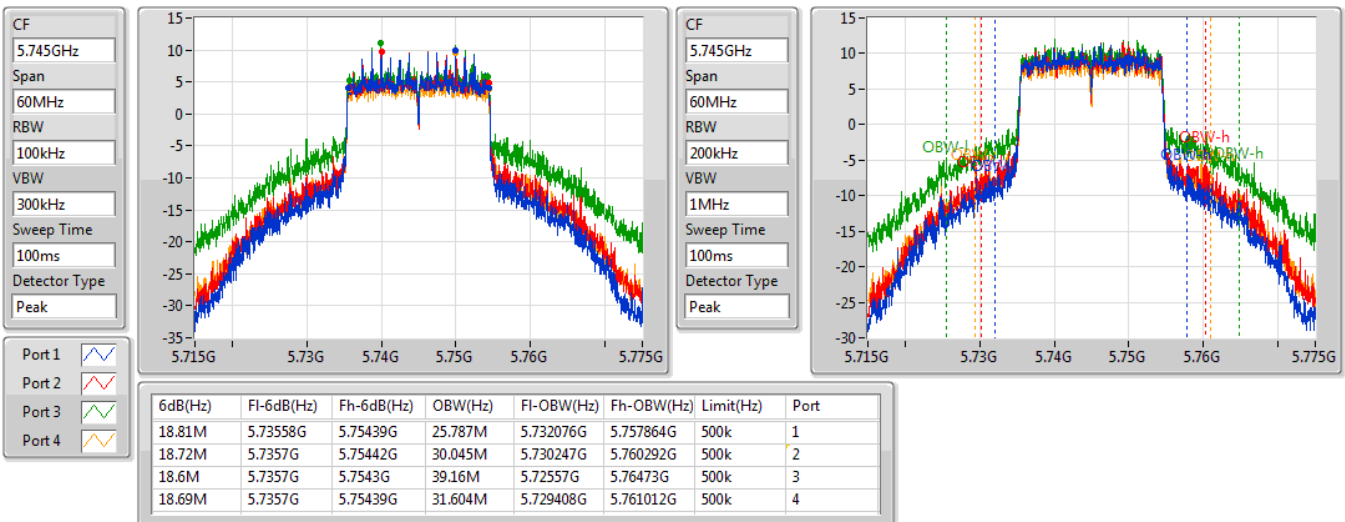
21/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

5745MHz

10/07/2020

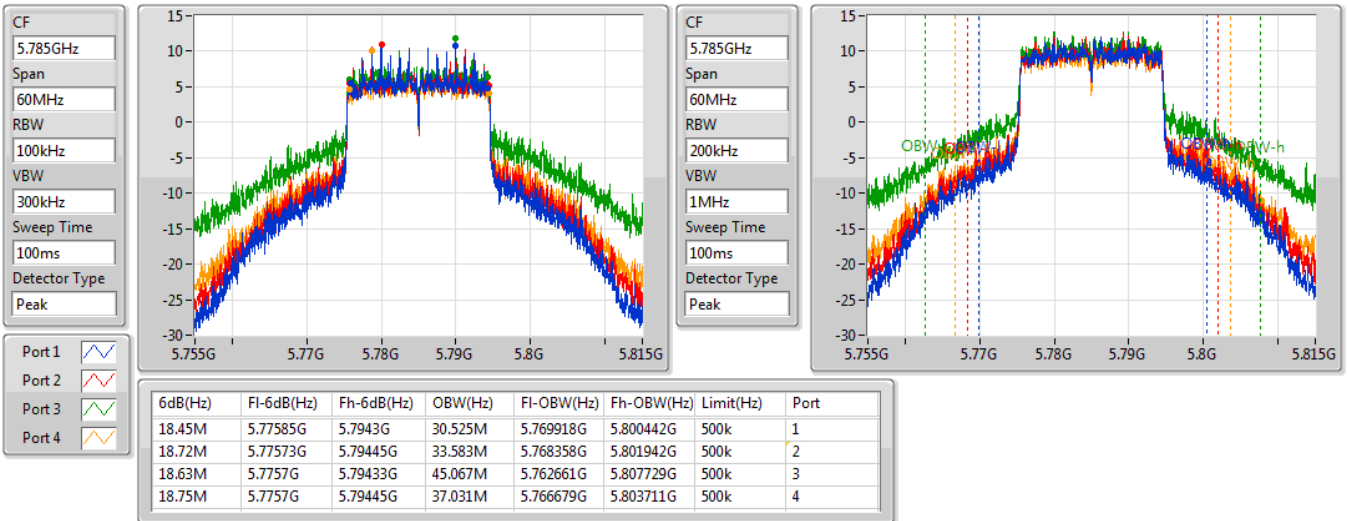


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5785MHz

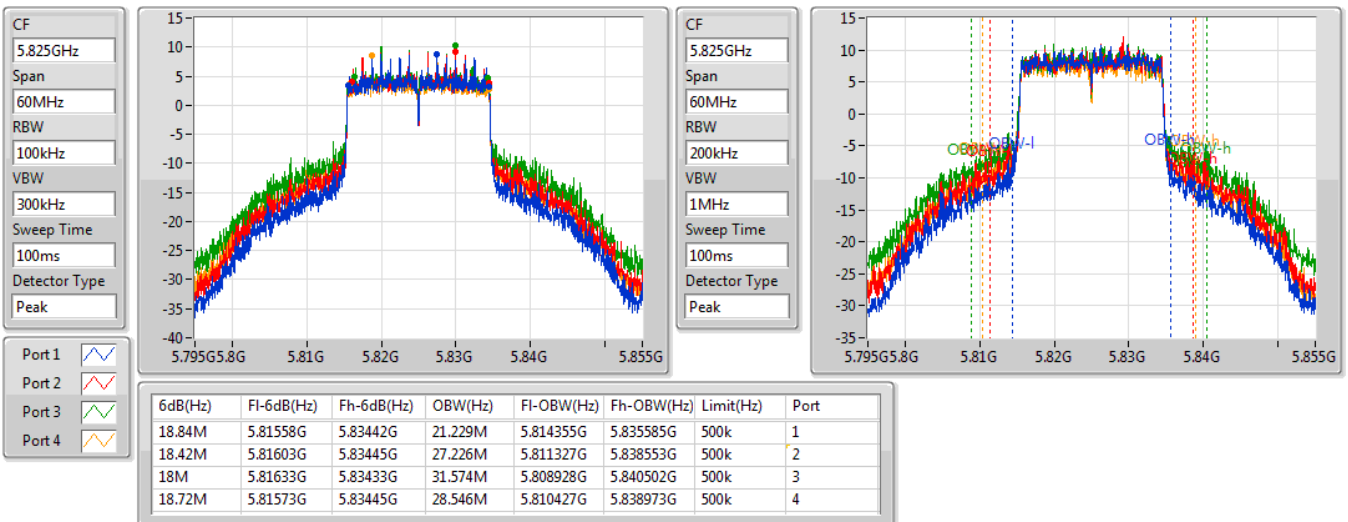
13/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5825MHz

13/07/2020

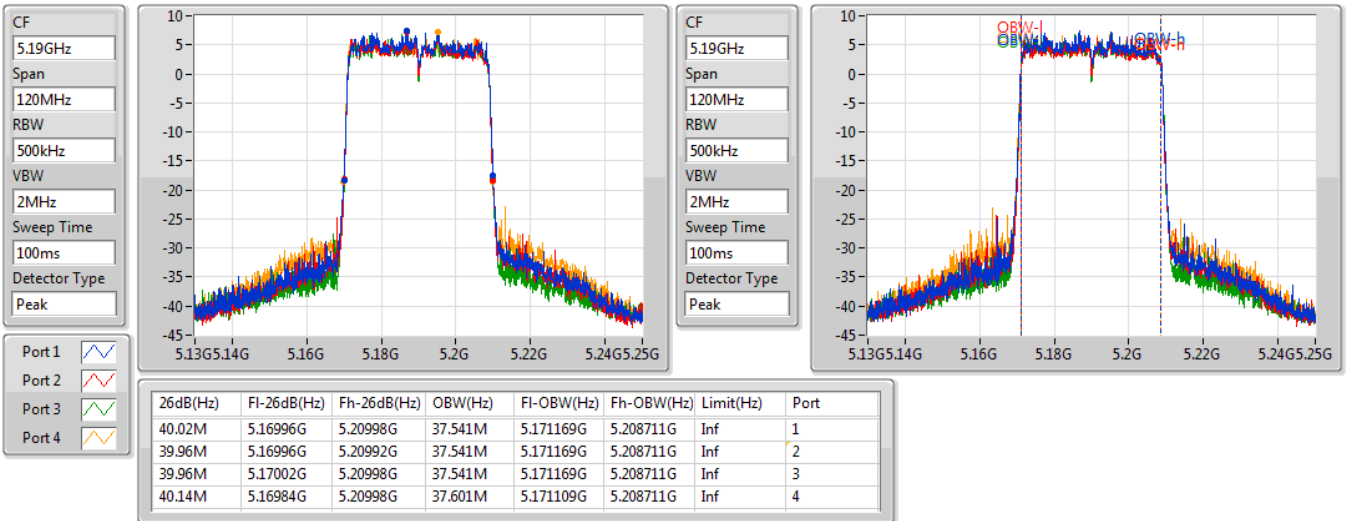


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5190MHz

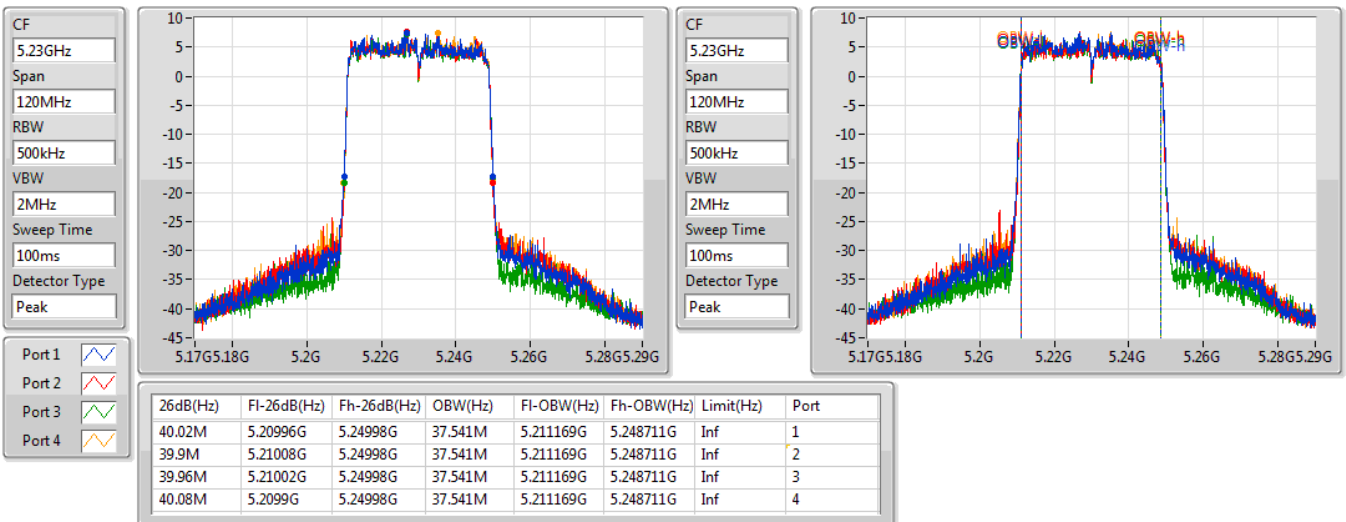
21/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5230MHz

21/07/2020

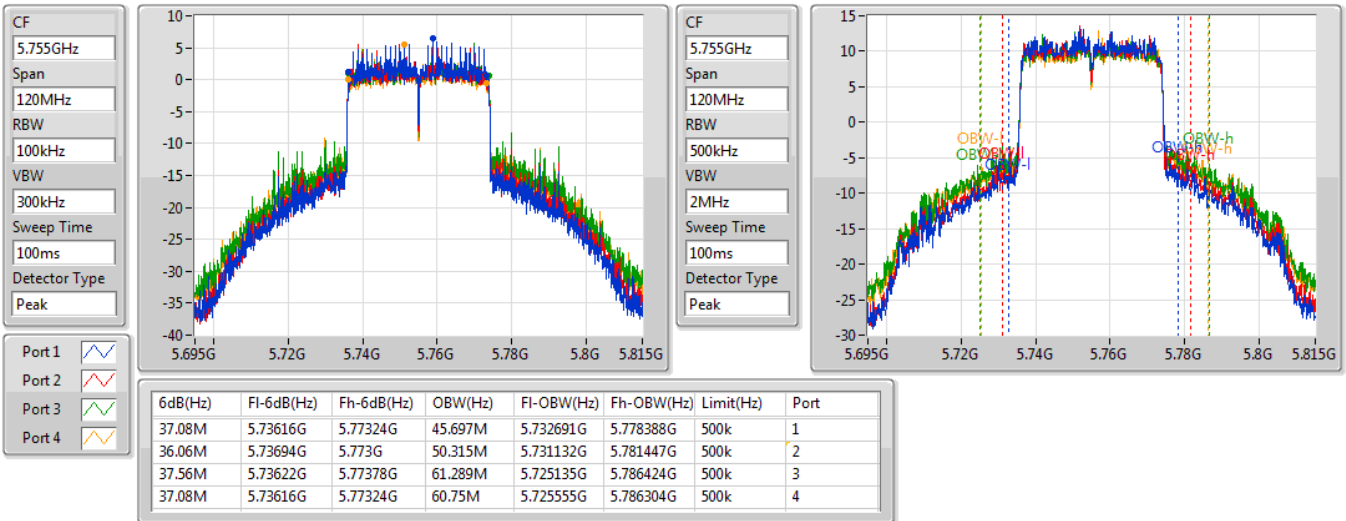


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5755MHz

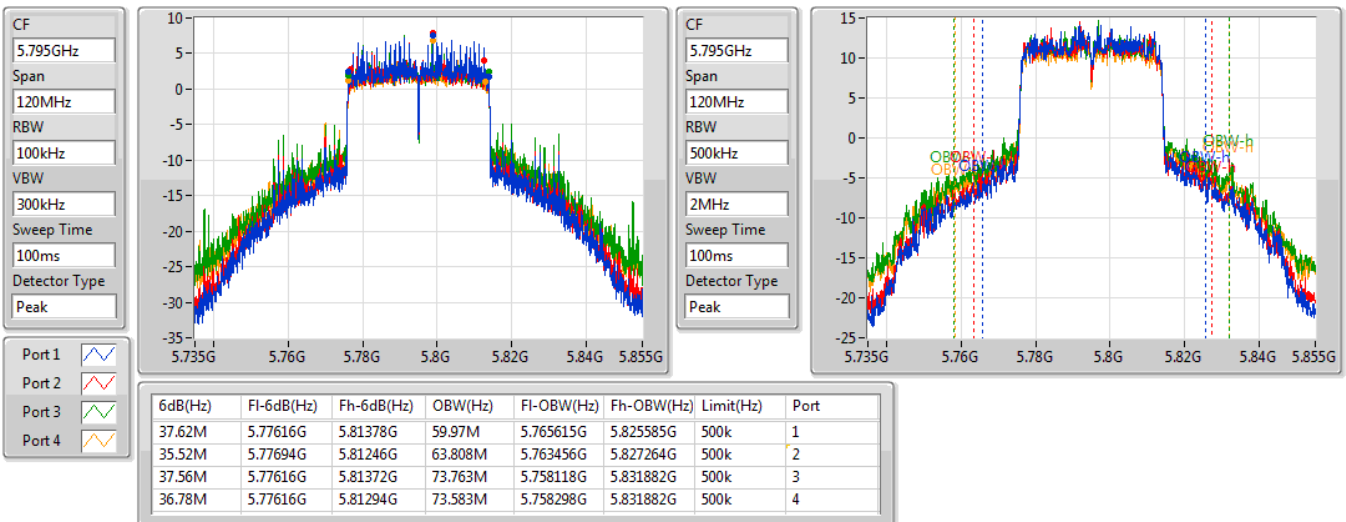
10/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5795MHz

10/07/2020

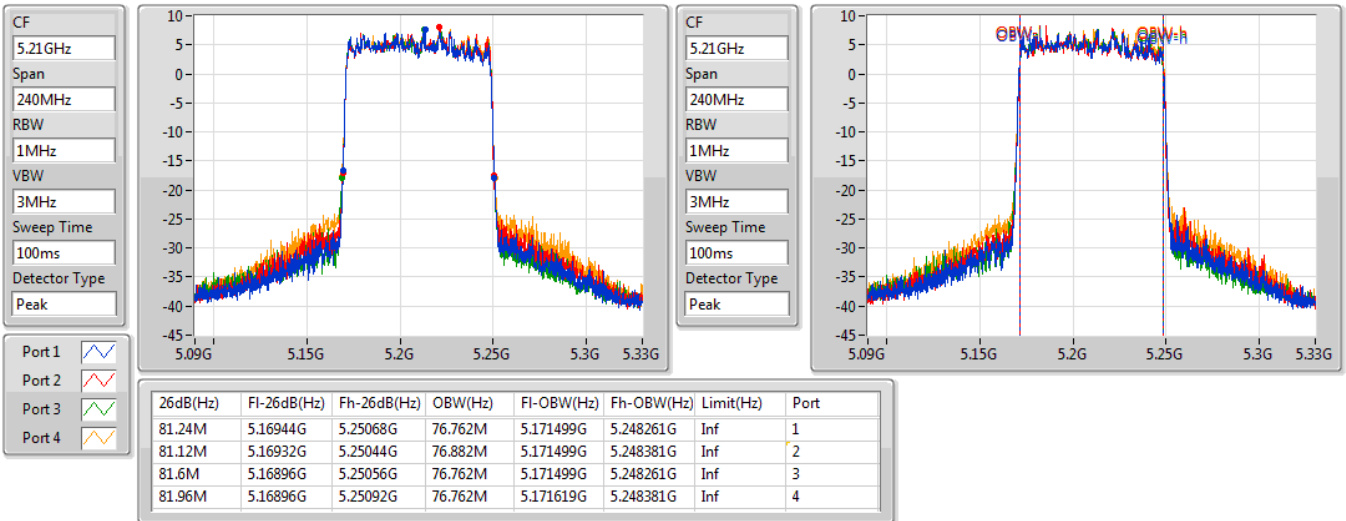


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5210MHz

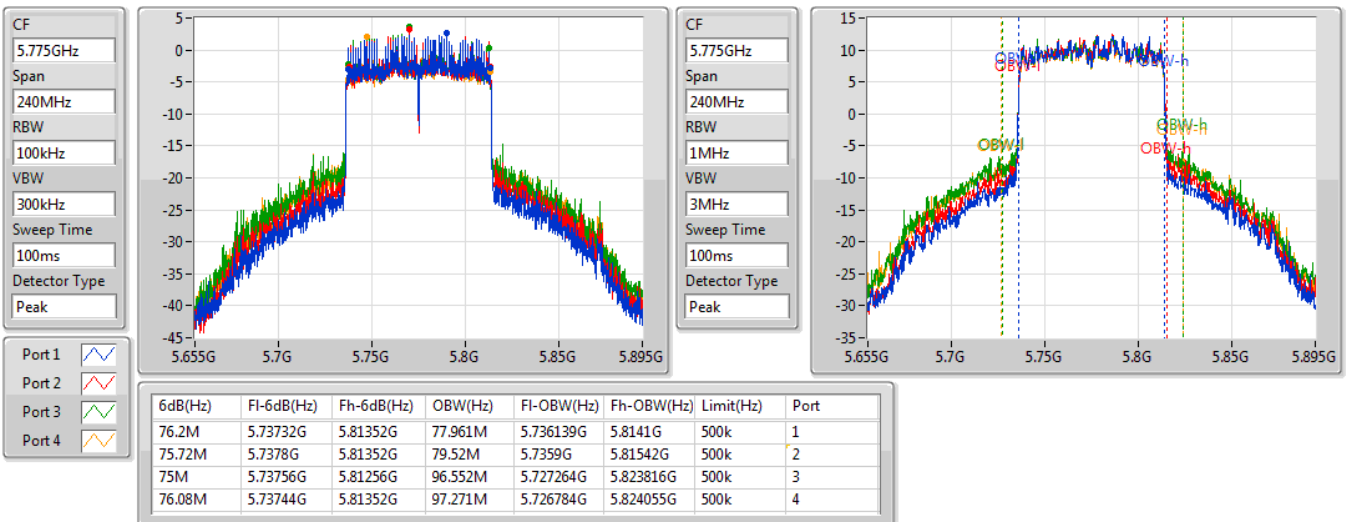
21/07/2020



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5775MHz

10/07/2020



**For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.48M	16.822M	16M8D1D	21.12M	16.642M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.1M	19M1D1D	21.24M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.08M	37.601M	37M6D1D	39.84M	37.541M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.84M	76.762M	76M8D1D	81.24M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.39M	16.792M	16M8D1D	15.54M	13.346M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	19.1M	19M1D1D	15.645M	14.518M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.661M	37M7D1D	34.913M	33.621M
802.11ax HEW80_Nss1,(MCS0)_4TX	105.96M	77.361M	77M4D1D	78.585M	73.046M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.15M	4.348M	4M35D1D	3.135M	4.198M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.53M	4.813M	4M81D1D	4.44M	4.663M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.795M	8.501M	8M50D1D	3.555M	4.123M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.855M	27.091M	27M1D1D	3.57M	19.505M

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;

**For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.21M	16.702M	21.45M	16.792M	21.39M	16.732M	21.39M	16.672M
5300MHz	Pass	Inf	21.12M	16.732M	21.48M	16.822M	21.3M	16.762M	21.27M	16.642M
5320MHz	Pass	Inf	21.21M	16.762M	21.24M	16.822M	21.27M	16.762M	21.33M	16.672M
5500MHz	Pass	Inf	21.15M	16.732M	21.3M	16.792M	21.39M	16.762M	21.33M	16.642M
5580MHz	Pass	Inf	21.21M	16.732M	21.39M	16.792M	21.33M	16.762M	21.27M	16.702M
5700MHz	Pass	Inf	21.21M	16.762M	21.33M	16.792M	21.36M	16.762M	21.18M	16.672M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.54M	13.363M	15.663M	13.416M	15.68M	13.433M	15.61M	13.346M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	4.243M	3.15M	4.348M	3.15M	4.213M	3.135M	4.198M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.42M	19.04M	21.51M	19.04M	21.48M	19.07M	21.6M	19.07M
5300MHz	Pass	Inf	21.48M	19.01M	21.24M	19.07M	21.57M	19.07M	21.51M	19.07M
5320MHz	Pass	Inf	21.48M	19.04M	21.48M	19.04M	21.6M	19.07M	21.51M	19.1M
5500MHz	Pass	Inf	21.42M	19.04M	21.39M	19.07M	21.54M	19.07M	21.54M	19.1M
5580MHz	Pass	Inf	21.42M	19.04M	21.45M	19.04M	21.57M	19.1M	21.33M	19.1M
5700MHz	Pass	Inf	21.33M	19.01M	21.33M	19.04M	21.48M	19.07M	21.42M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.715M	14.518M	15.645M	14.518M	15.715M	14.535M	15.733M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.455M	4.663M	4.47M	4.708M	4.44M	4.708M	4.53M	4.813M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.02M	37.541M	39.84M	37.541M	39.84M	37.541M	40.08M	37.601M
5310MHz	Pass	Inf	40.08M	37.541M	39.9M	37.541M	40.02M	37.541M	40.02M	37.541M
5510MHz	Pass	Inf	40.2M	37.481M	39.84M	37.481M	39.9M	37.541M	40.08M	37.541M
5550MHz	Pass	Inf	40.2M	37.541M	39.96M	37.481M	39.9M	37.541M	39.9M	37.541M
5670MHz	Pass	Inf	40.08M	37.541M	39.9M	37.601M	40.02M	37.661M	40.02M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.1M	33.696M	34.913M	33.621M	34.988M	33.696M	35.138M	33.771M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.795M	4.123M	3.735M	4.123M	3.75M	8.501M	3.555M	4.423M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.48M	76.762M	81.24M	76.762M	81.72M	76.762M	81.84M	76.762M
5530MHz	Pass	Inf	81.48M	76.762M	81.12M	76.762M	81.6M	76.762M	81.72M	76.762M
5610MHz	Pass	Inf	81.48M	76.882M	81.48M	76.882M	105.96M	77.361M	85.32M	77.001M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.585M	73.046M	79.67M	73.123M	105.013M	73.588M	95.713M	73.278M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.585M	19.505M	3.57M	22.924M	3.81M	27.091M	3.855M	25.742M

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

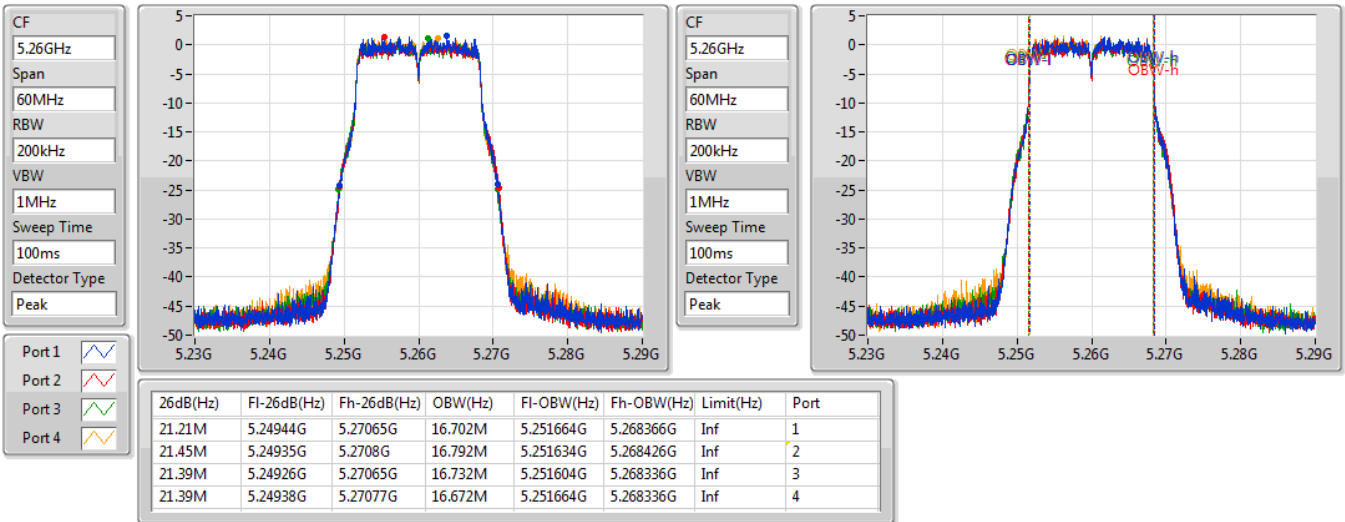
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5260MHz

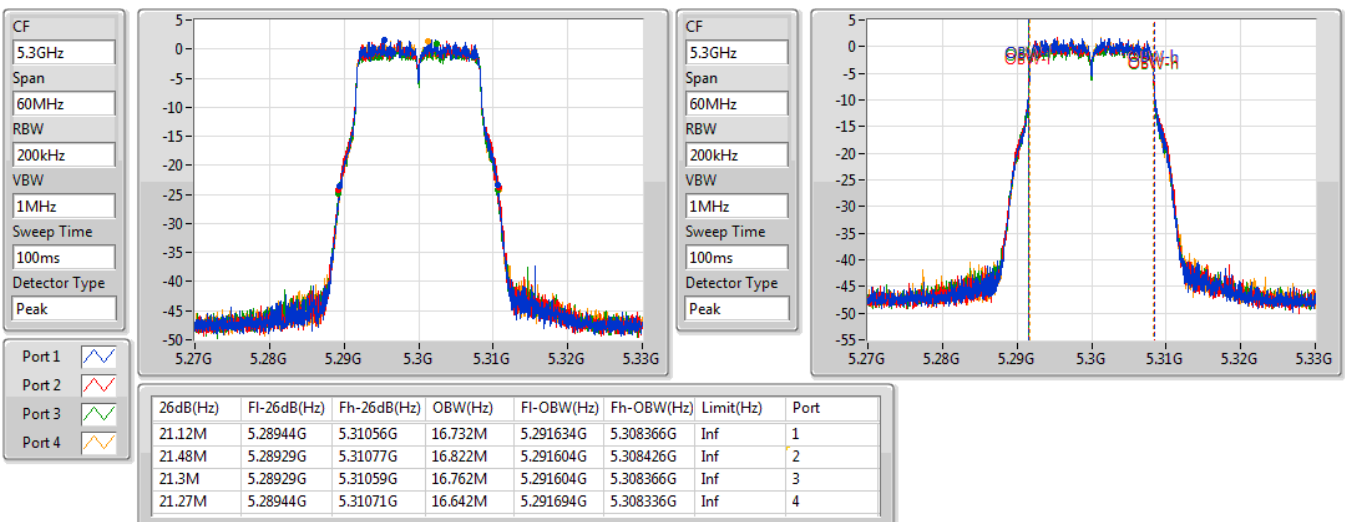
15/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5300MHz

15/07/2020



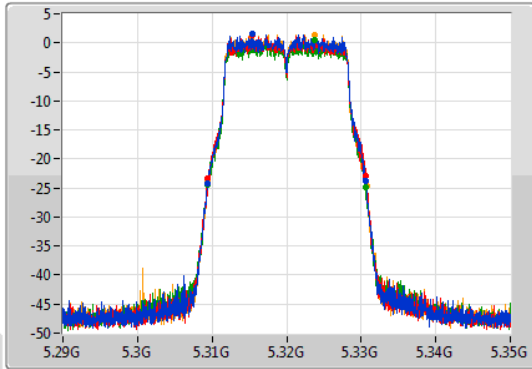
For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

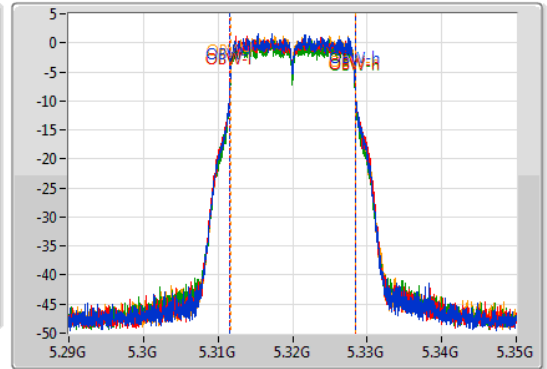
EBW
5320MHz

15/07/2020

CF
5.32GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.32GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



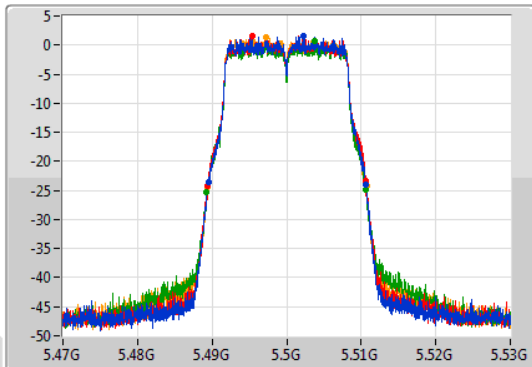
26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.21M	5.30944G	5.33065G	16.762M	5.311634G	5.328396G	Inf	1
21.24M	5.30941G	5.33065G	16.822M	5.311604G	5.328426G	Inf	2
21.27M	5.30935G	5.33062G	16.762M	5.311604G	5.328366G	Inf	3
21.33M	5.30944G	5.33077G	16.672M	5.311694G	5.328366G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

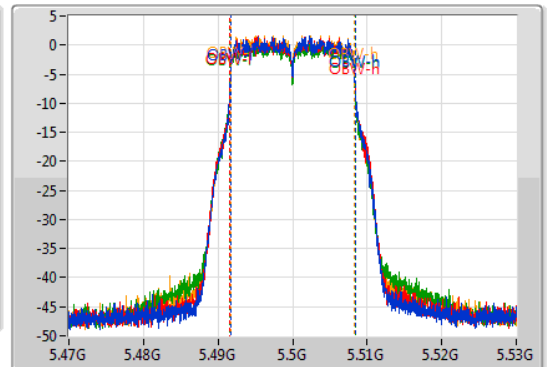
EBW
5500MHz

15/07/2020

CF
5.5GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.5GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



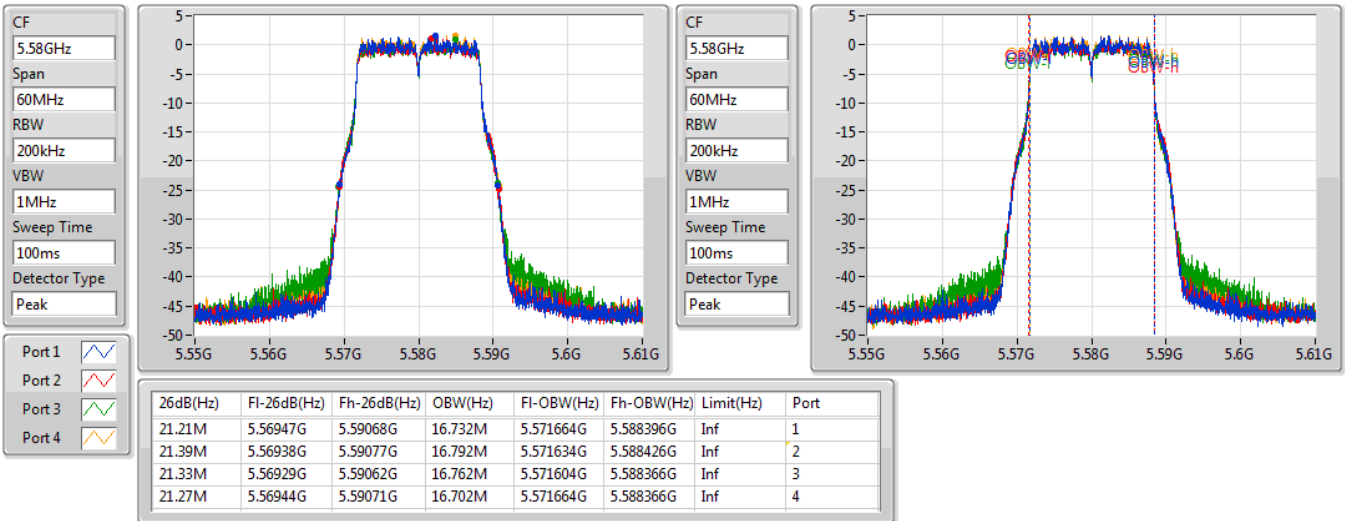
26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.15M	5.4895G	5.51065G	16.732M	5.491664G	5.508396G	Inf	1
21.3M	5.48938G	5.51068G	16.792M	5.491634G	5.508426G	Inf	2
21.39M	5.48926G	5.51065G	16.762M	5.491604G	5.508366G	Inf	3
21.33M	5.48938G	5.51071G	16.642M	5.491694G	5.508366G	Inf	4

For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5580MHz

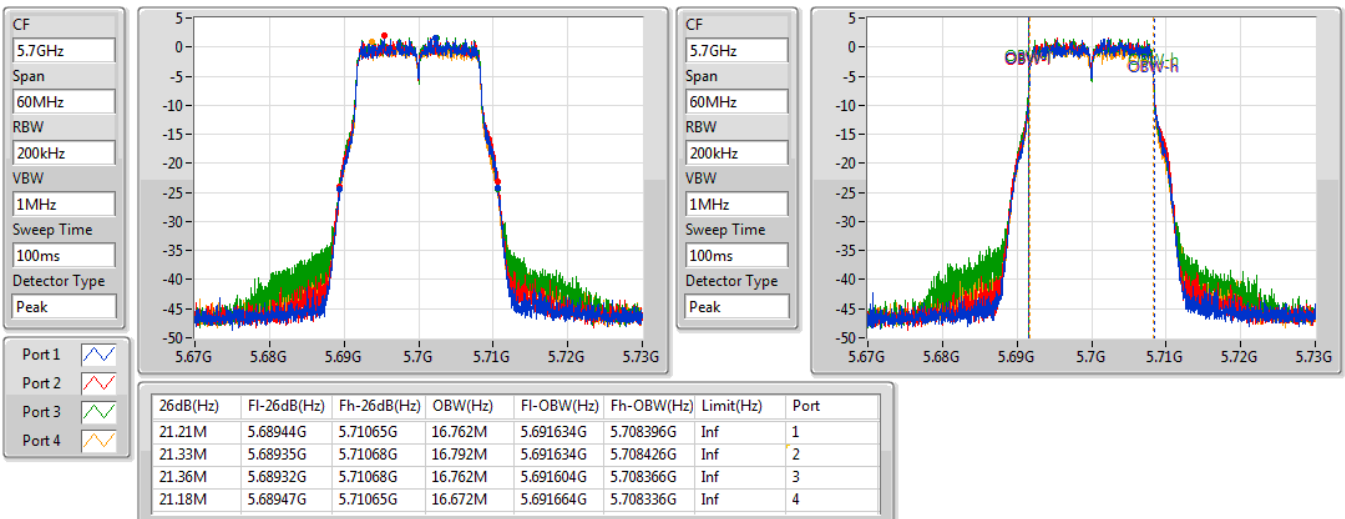
15/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5700MHz

15/07/2020



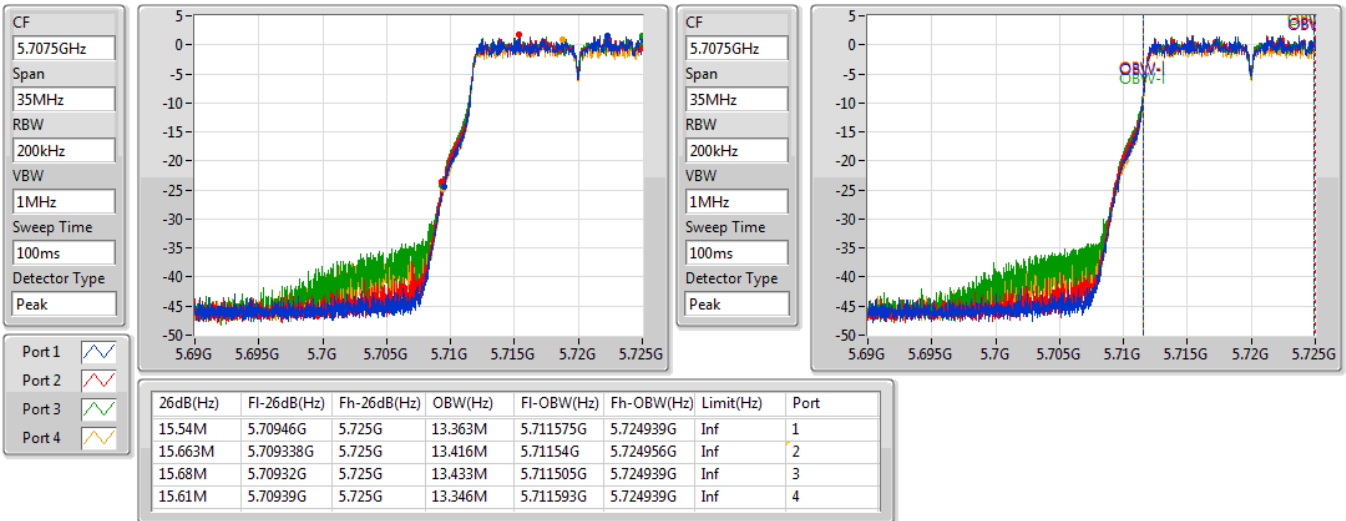
For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

15/07/2020

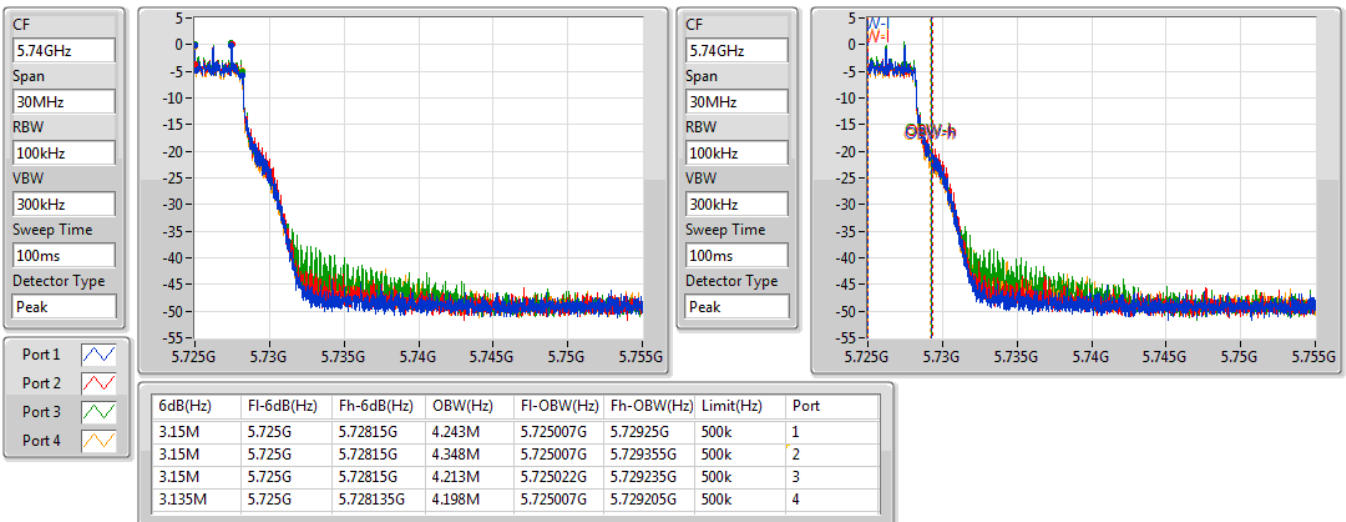


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/07/2020

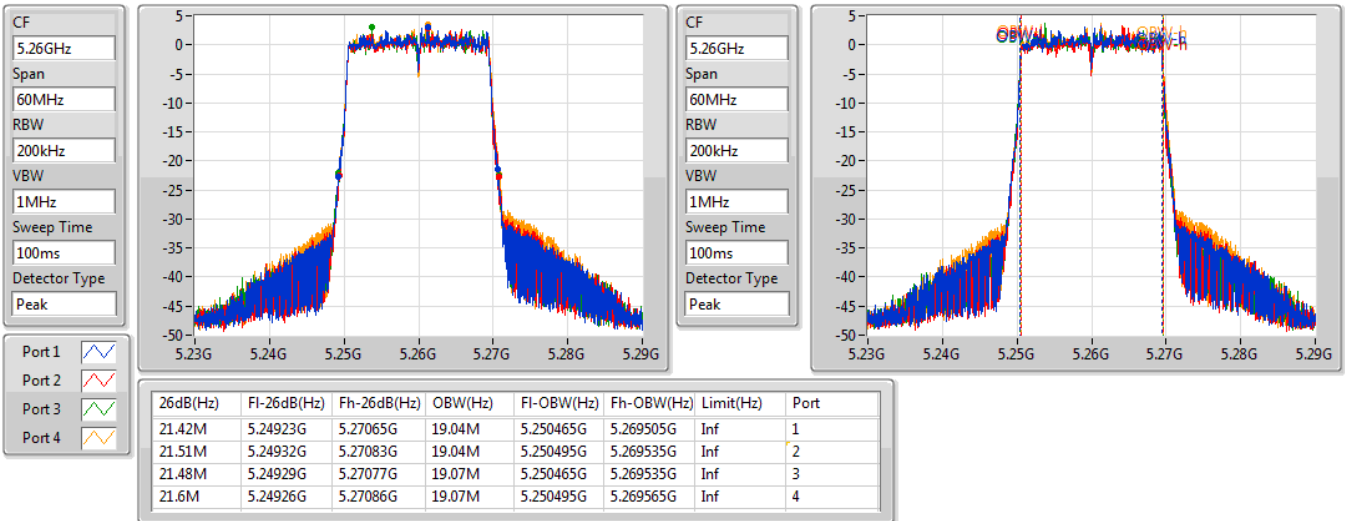


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5260MHz

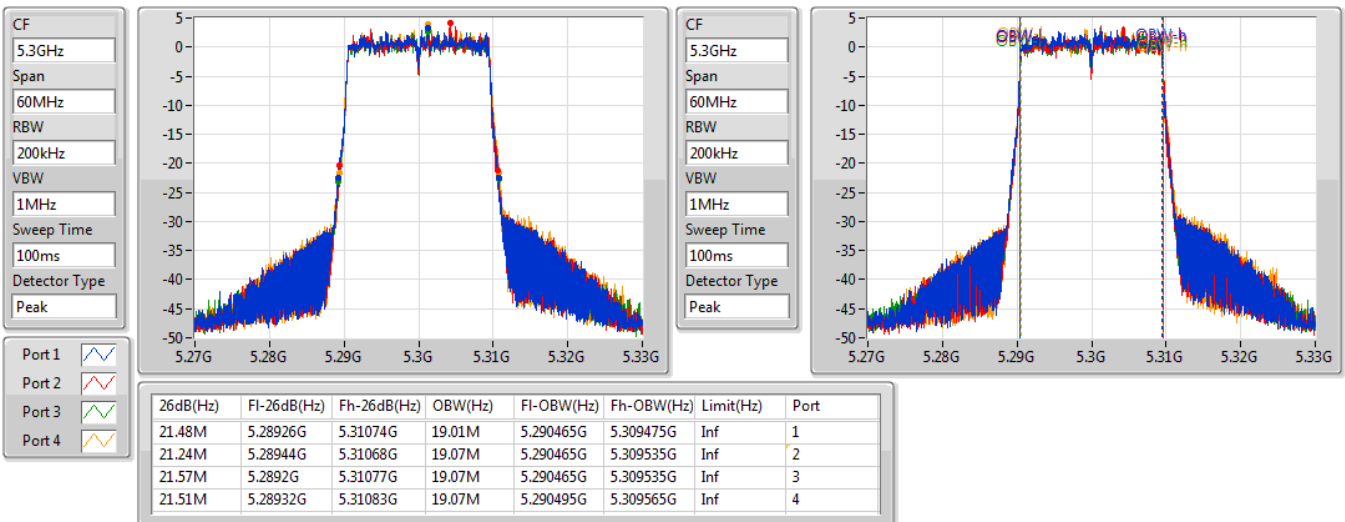
15/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5300MHz

15/07/2020

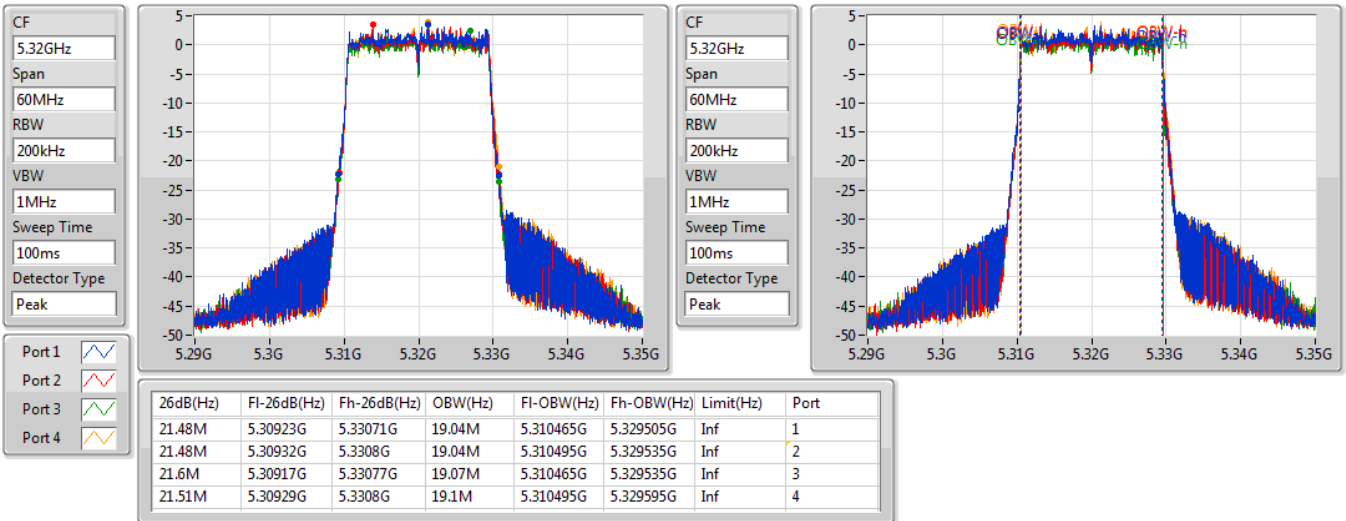


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5320MHz

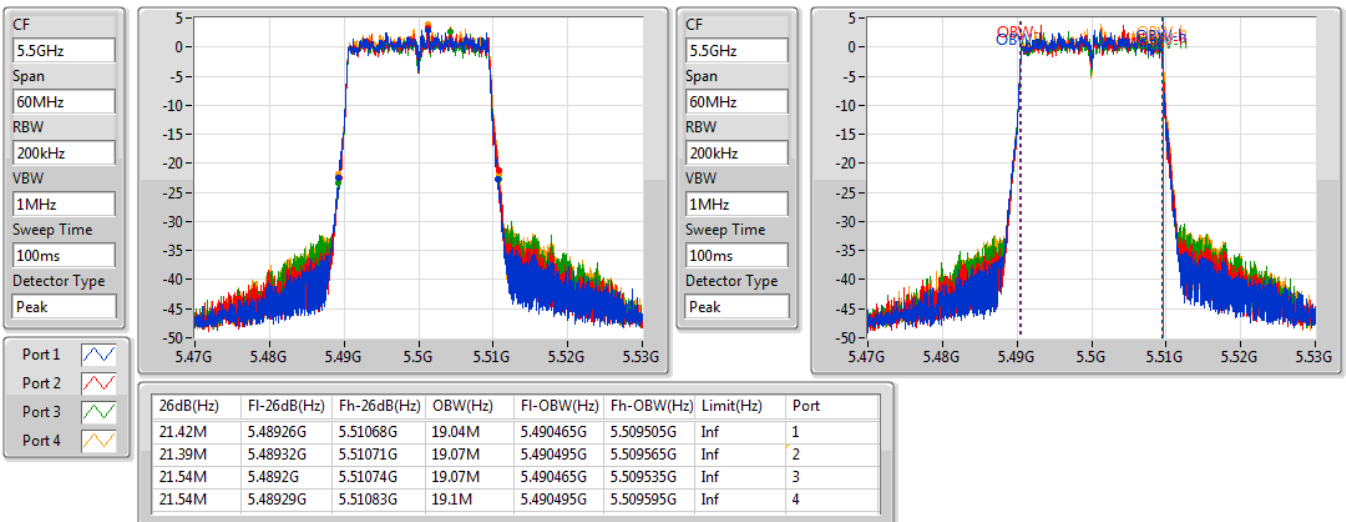
15/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5500MHz

15/07/2020

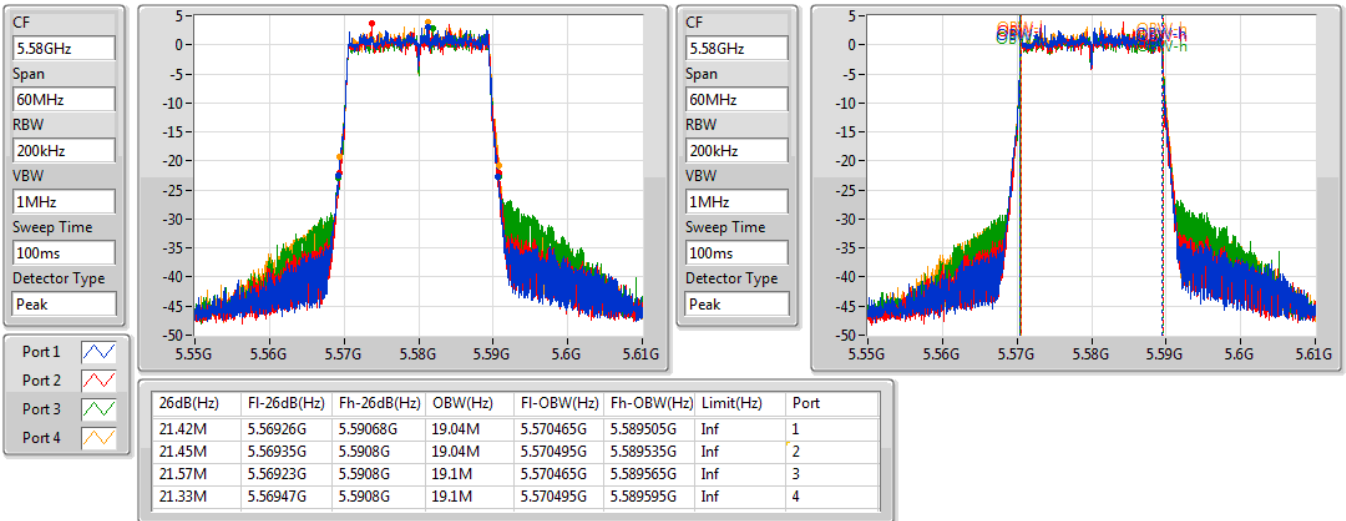


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5580MHz

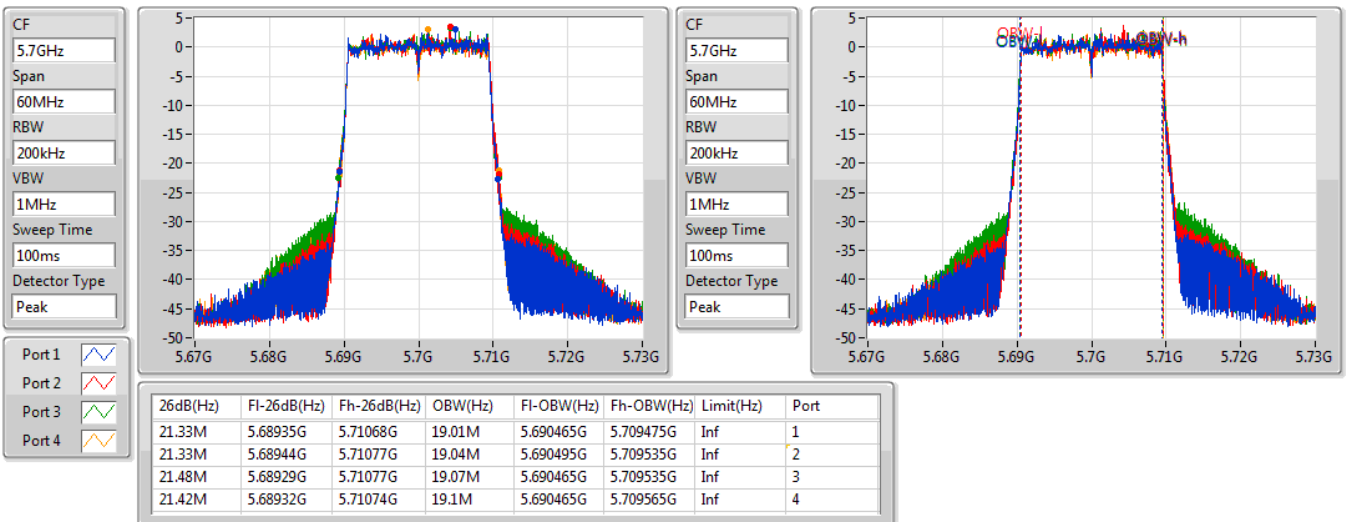
15/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5700MHz

15/07/2020



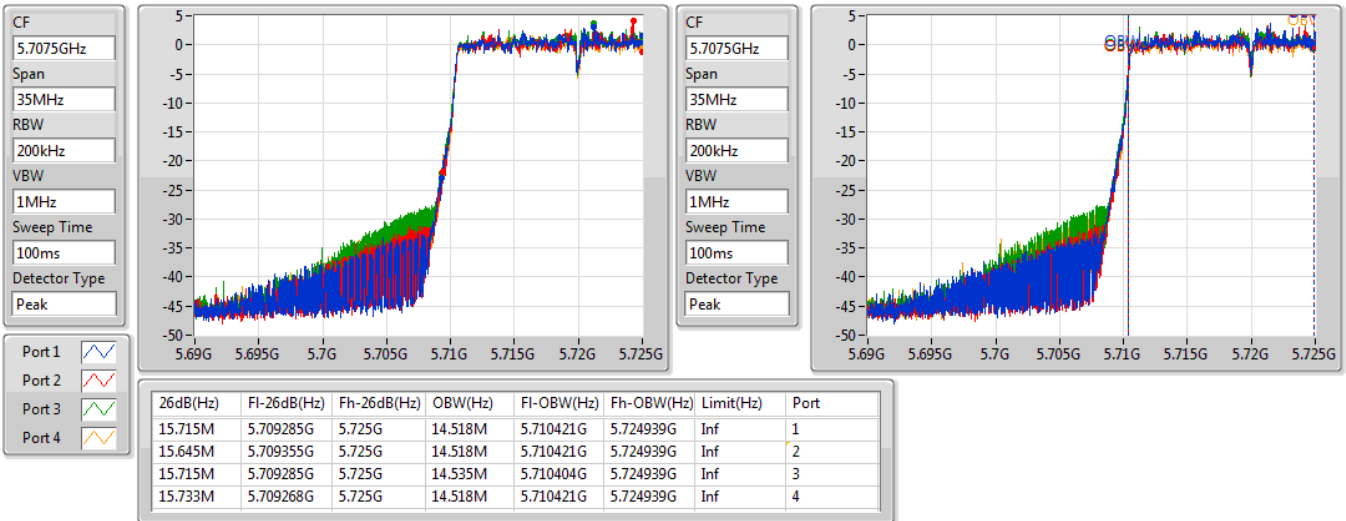
For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

15/07/2020

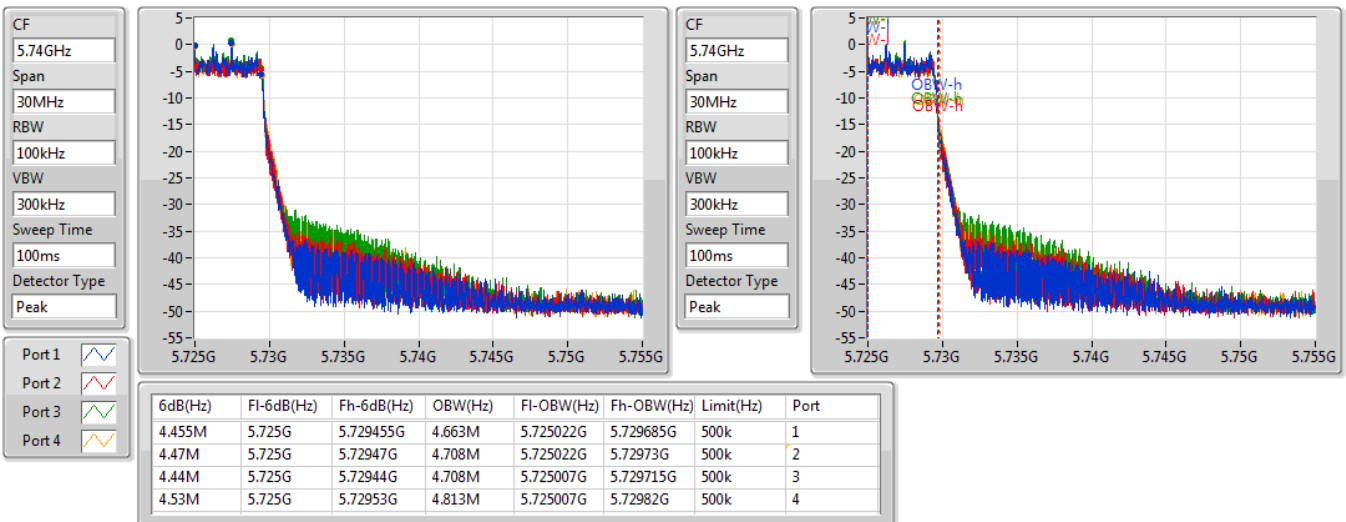


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/07/2020

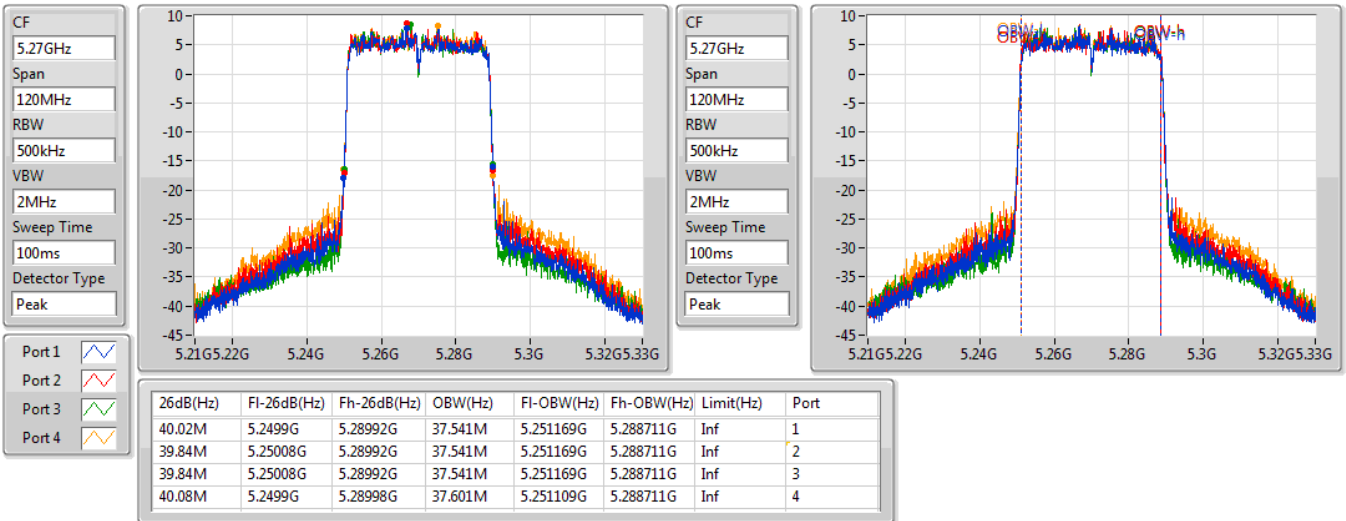


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5270MHz

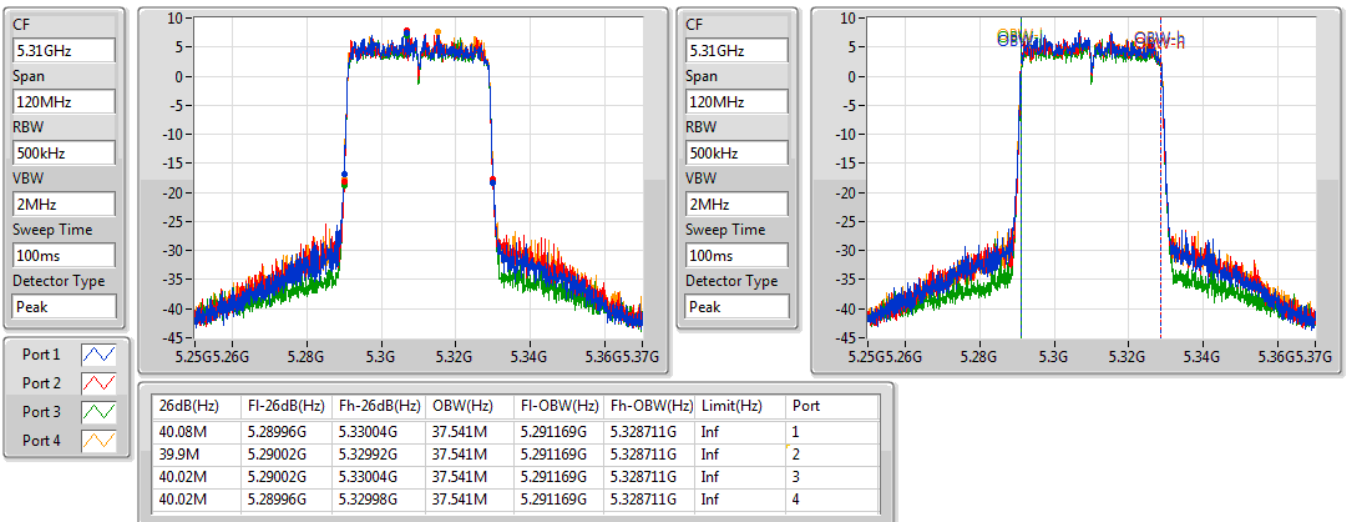
15/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5310MHz

15/07/2020

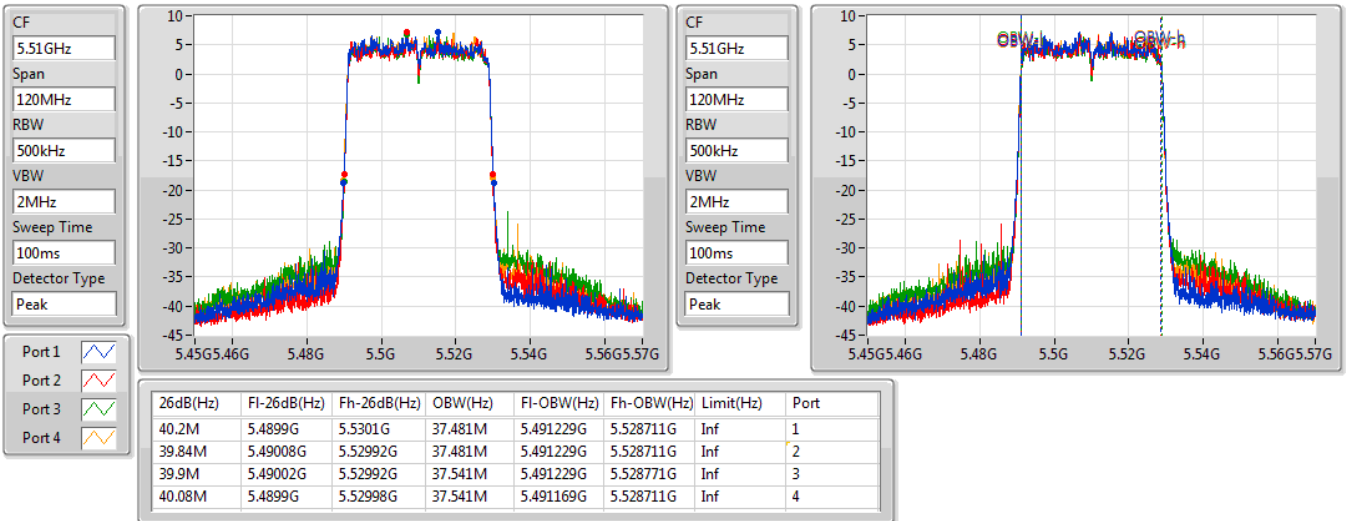


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5510MHz

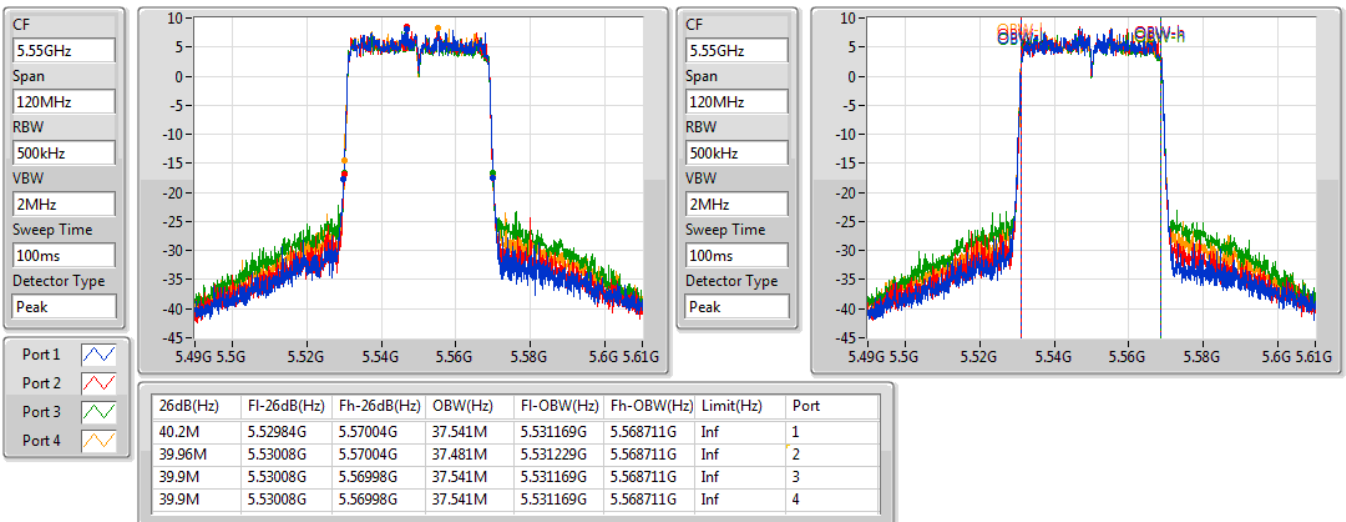
15/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5550MHz

15/07/2020

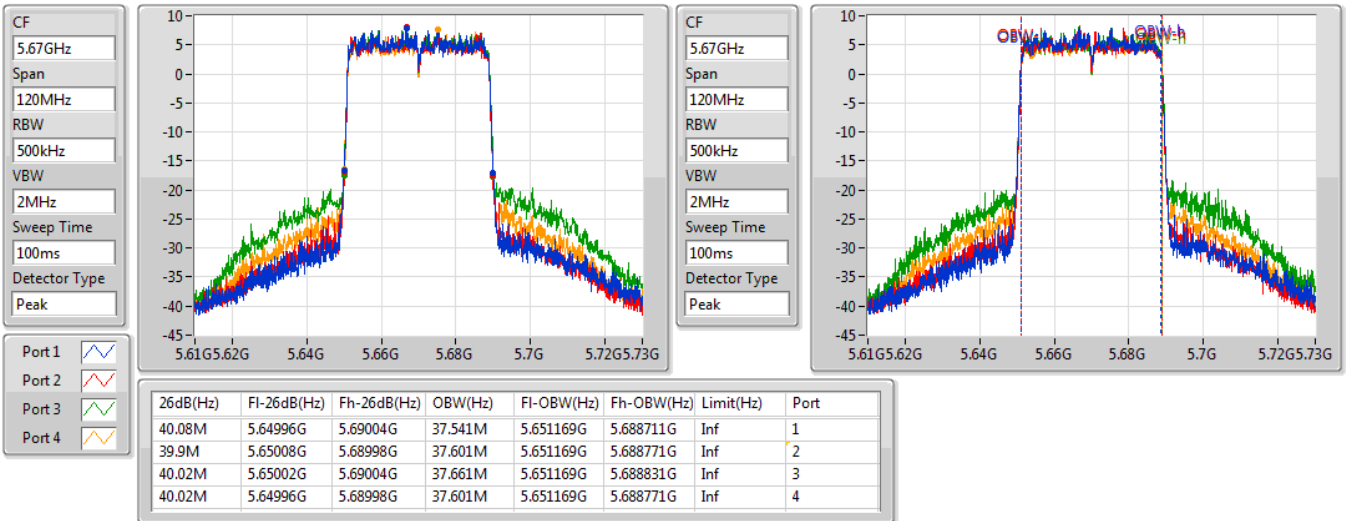


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5670MHz

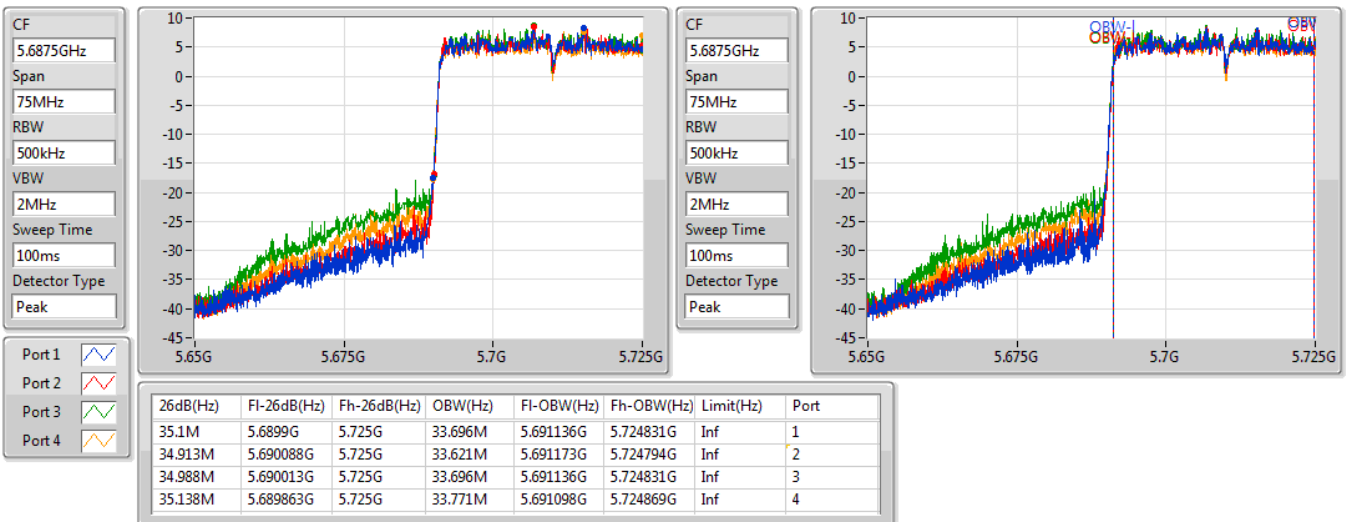
15/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5710MHz Straddle 5.47-5.725GHz

15/07/2020



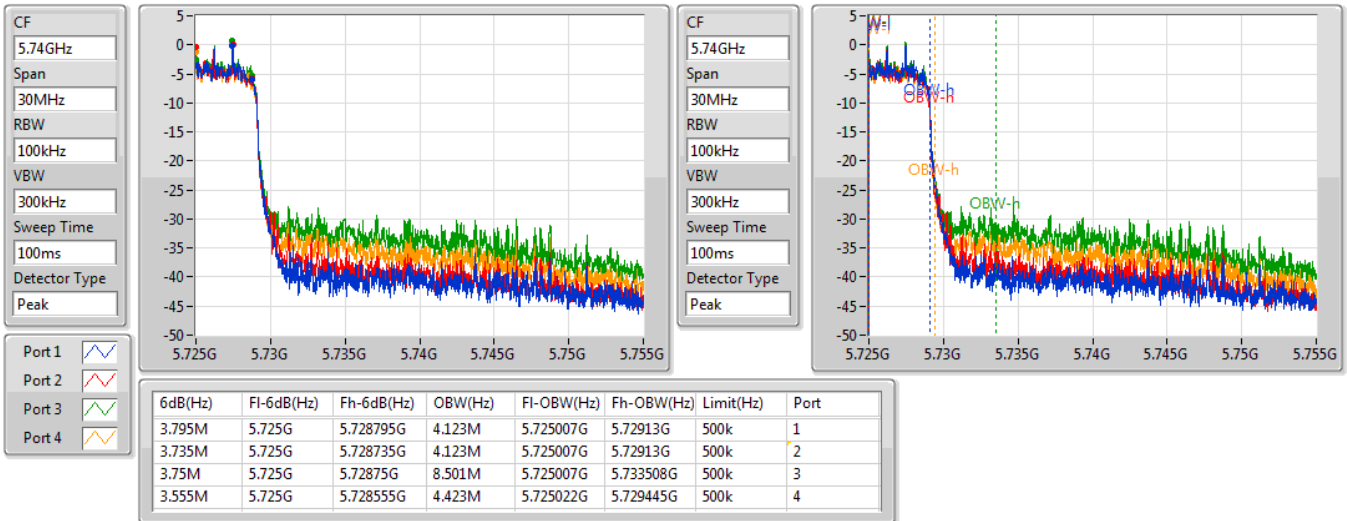
For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

15/07/2020

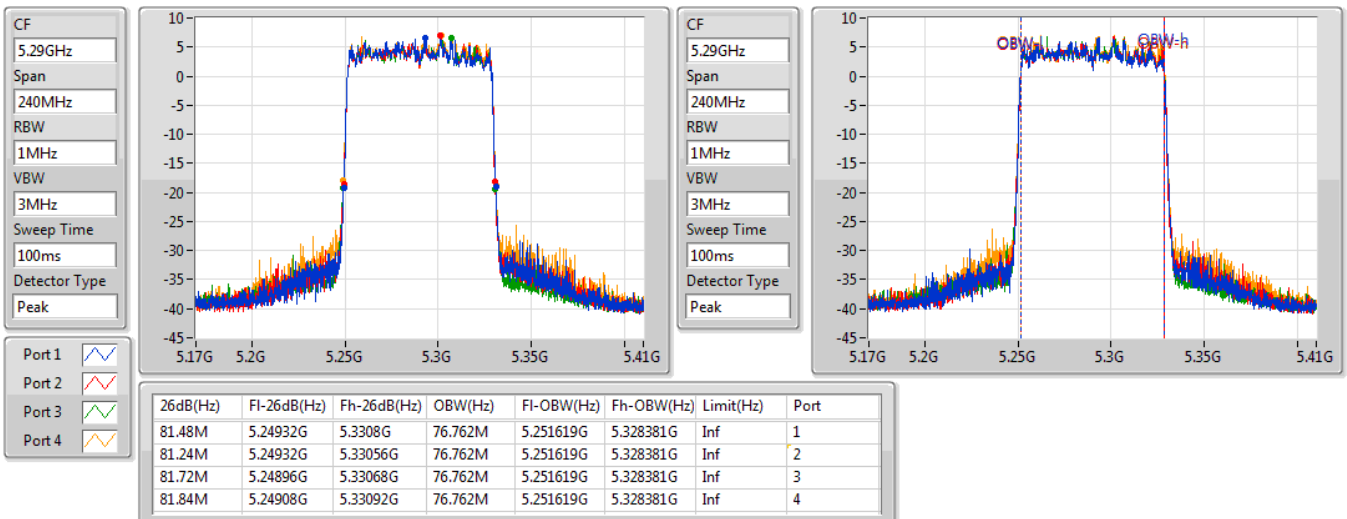


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5290MHz

15/07/2020

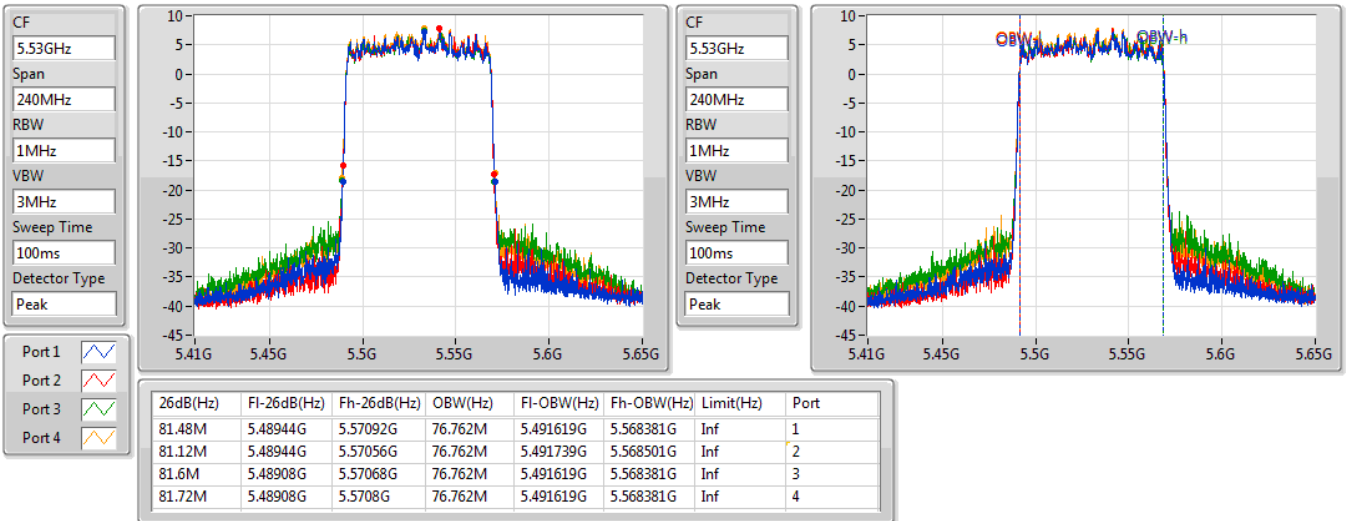


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5530MHz

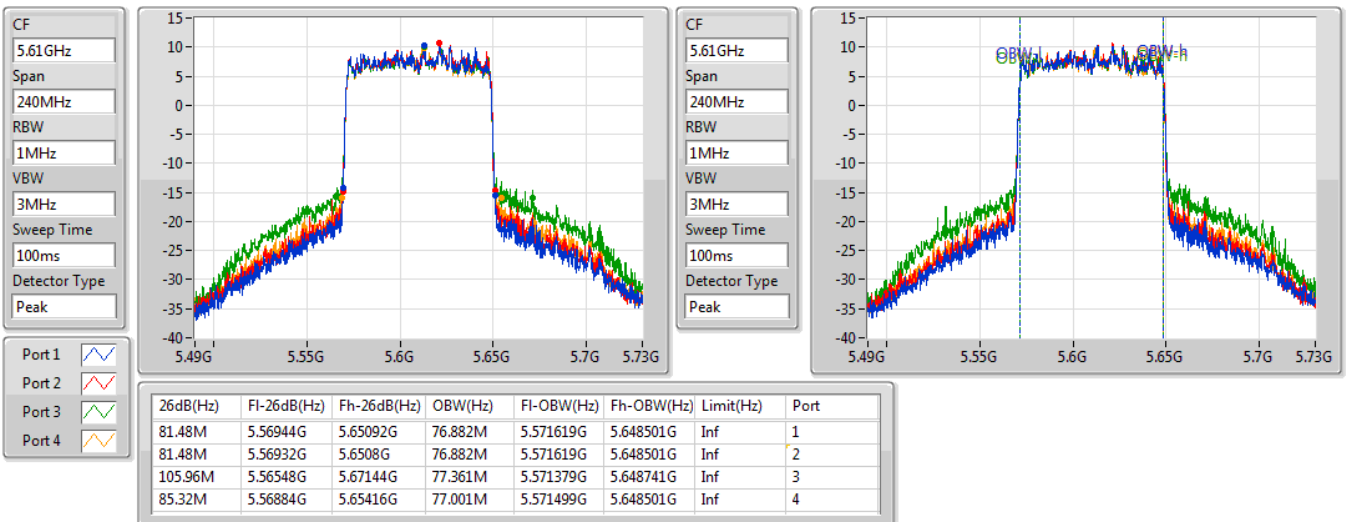
15/07/2020



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5610MHz

15/07/2020



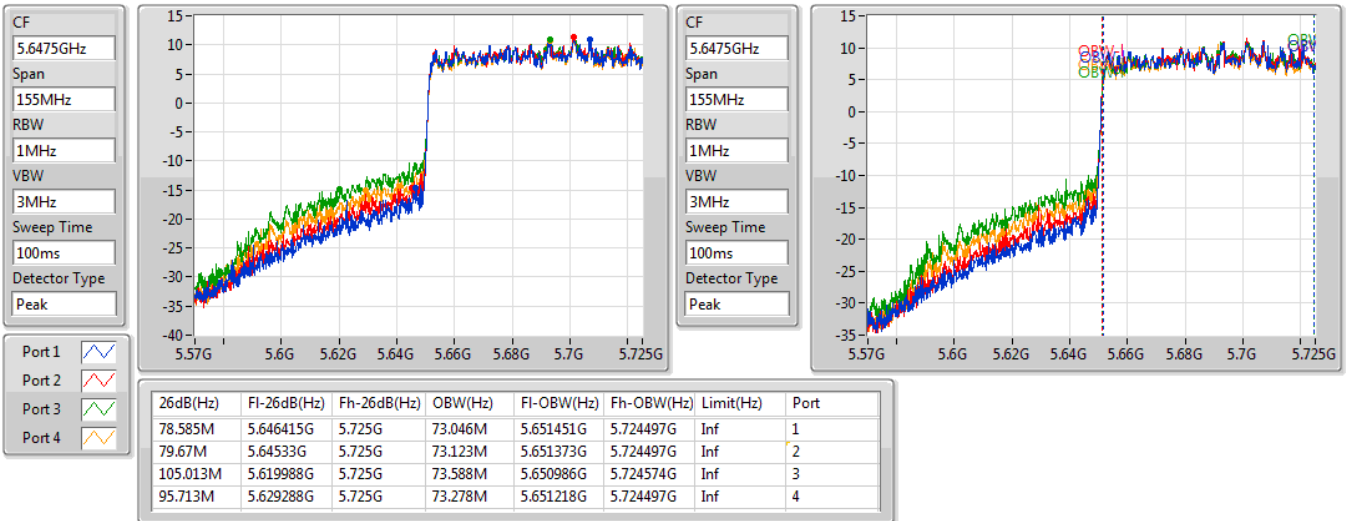
For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

15/07/2020

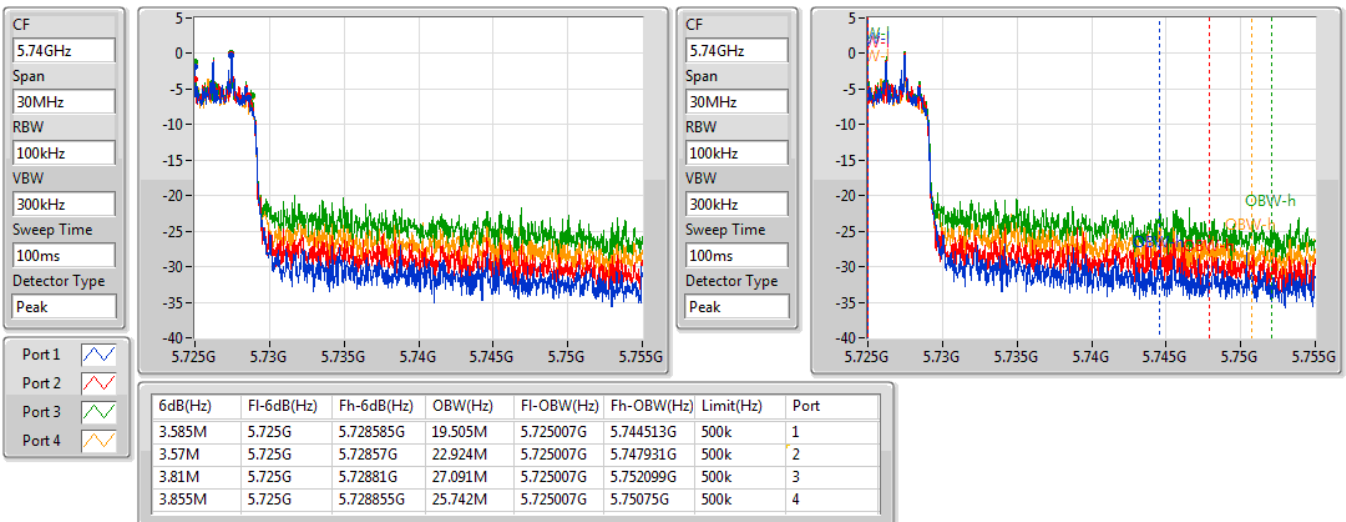


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

15/07/2020



**For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode
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	24.27M	16.912M	16M9D1D	21.18M	16.792M
802.11ax HEW20_Nss1,(MCS0)_2TX	26.31M	19.16M	19M2D1D	21.39M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	59.94M	37.781M	37M8D1D	39.84M	37.541M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.36M	76.882M	76M9D1D	81.24M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.41M	35.892M	35M9D1D	16.29M	34.063M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.84M	38.531M	38M5D1D	18.51M	36.282M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.56M	70.885M	70M9D1D	36.78M	52.654M
802.11ax HEW80_Nss1,(MCS0)_2TX	76.08M	86.357M	86M4D1D	75.12M	77.481M

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;

**For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode
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	21.45M	16.822M	22.86M	16.822M
5200MHz	Pass	Inf	21.39M	16.822M	22.83M	16.882M
5240MHz	Pass	Inf	21.18M	16.792M	24.27M	16.912M
5745MHz	Pass	500k	16.35M	35.412M	16.35M	34.273M
5785MHz	Pass	500k	16.32M	35.742M	16.41M	34.123M
5825MHz	Pass	500k	16.35M	35.892M	16.29M	34.063M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.54M	19.04M	22.86M	19.1M
5200MHz	Pass	Inf	22.53M	19.04M	23.19M	19.13M
5240MHz	Pass	Inf	21.39M	19.04M	26.31M	19.16M
5745MHz	Pass	500k	18.63M	37.961M	18.54M	36.732M
5785MHz	Pass	500k	18.51M	38.411M	18.66M	37.361M
5825MHz	Pass	500k	18.54M	38.531M	18.84M	36.282M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.541M	39.84M	37.601M
5230MHz	Pass	Inf	40.14M	37.601M	59.94M	37.781M
5755MHz	Pass	500k	37.56M	60.69M	36.78M	52.654M
5795MHz	Pass	500k	37.56M	70.885M	37.5M	64.348M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	76.762M	81.24M	76.882M
5775MHz	Pass	500k	76.08M	86.357M	75.12M	77.481M

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

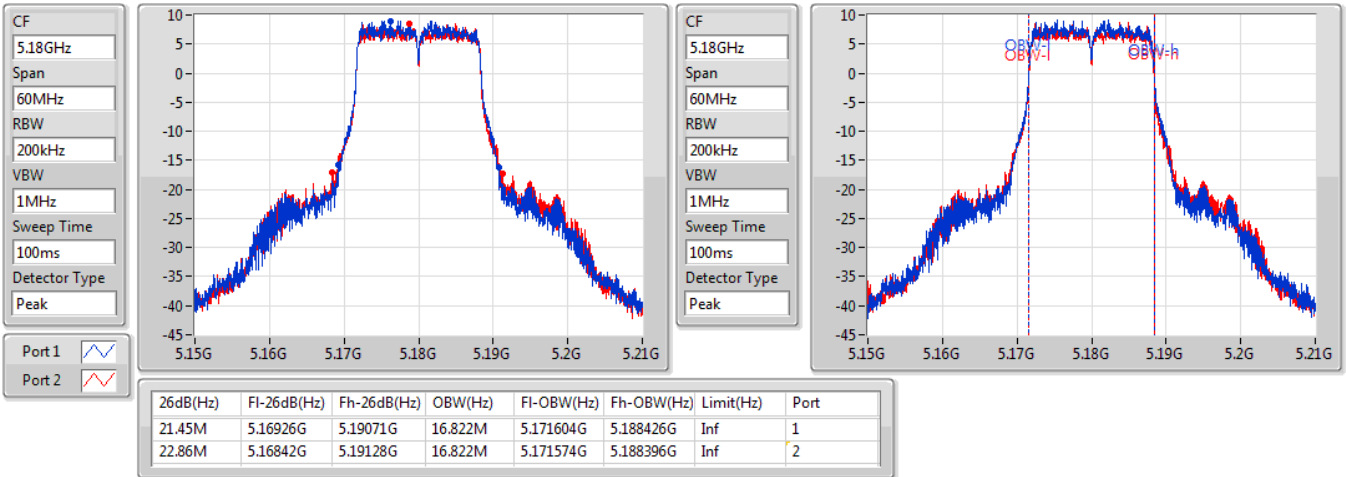
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5180MHz

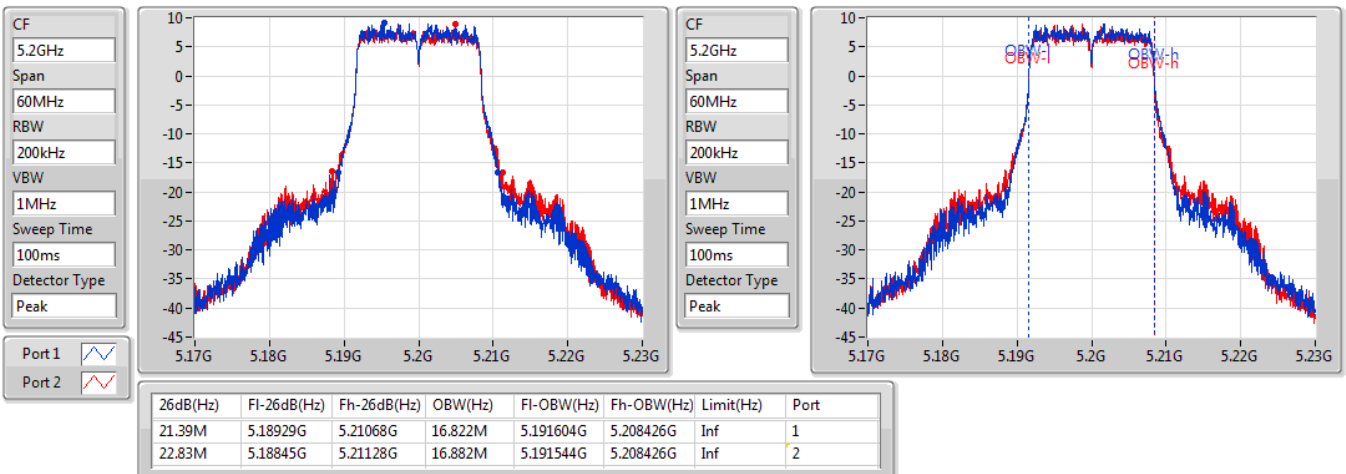
22/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5200MHz

22/07/2020

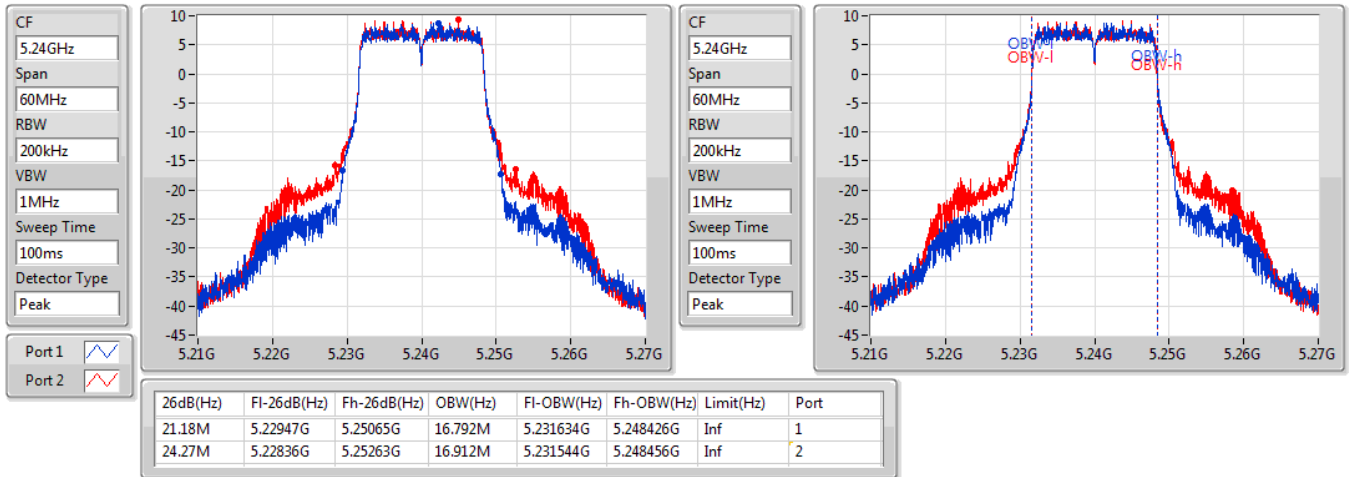


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5240MHz

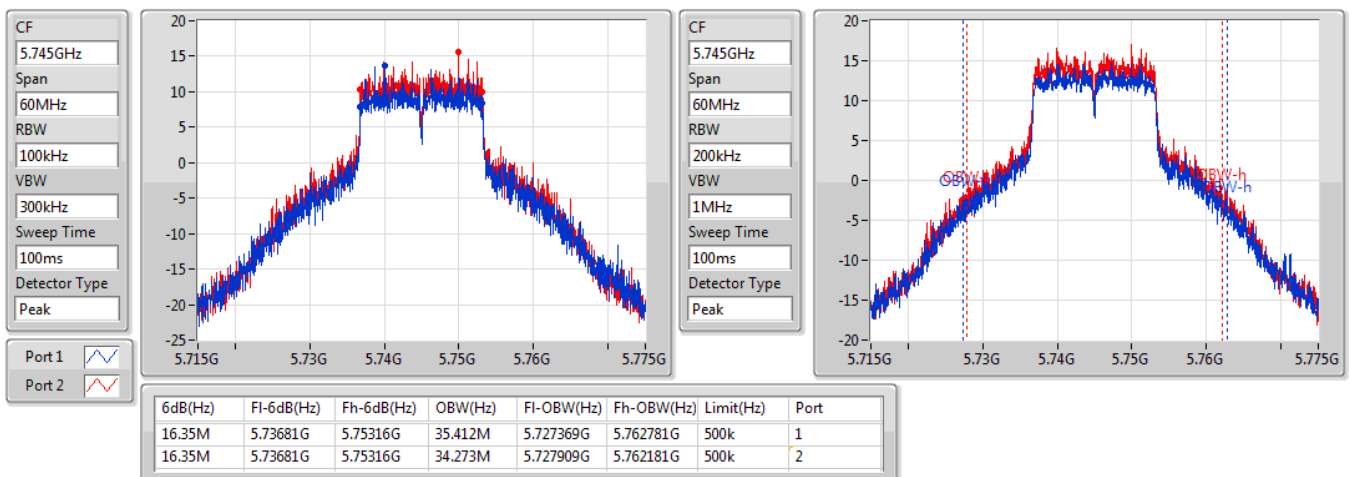
22/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5745MHz

10/07/2020

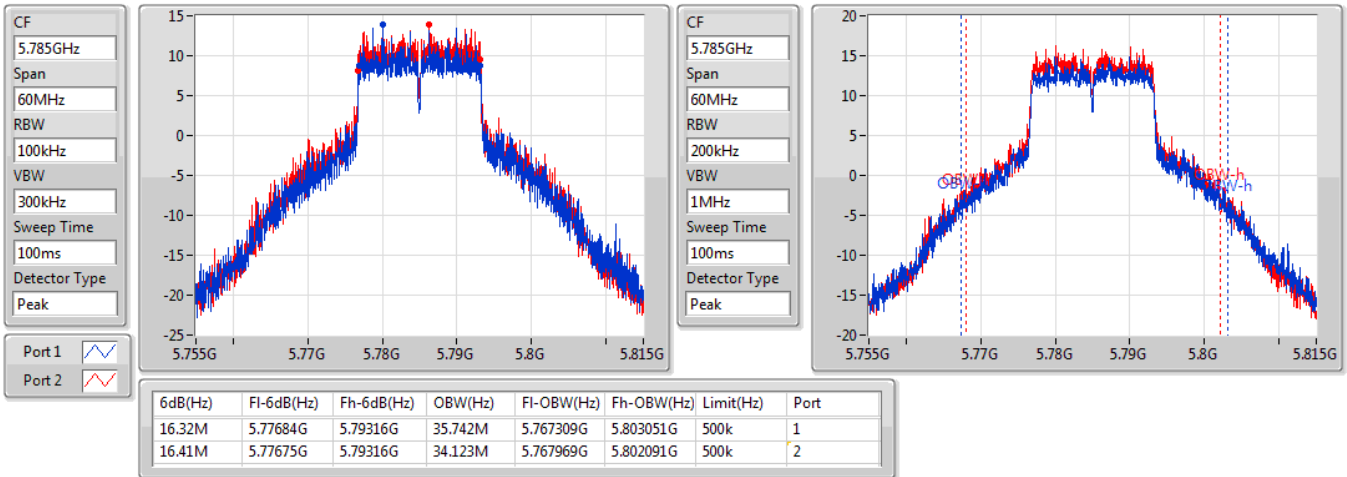


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5785MHz

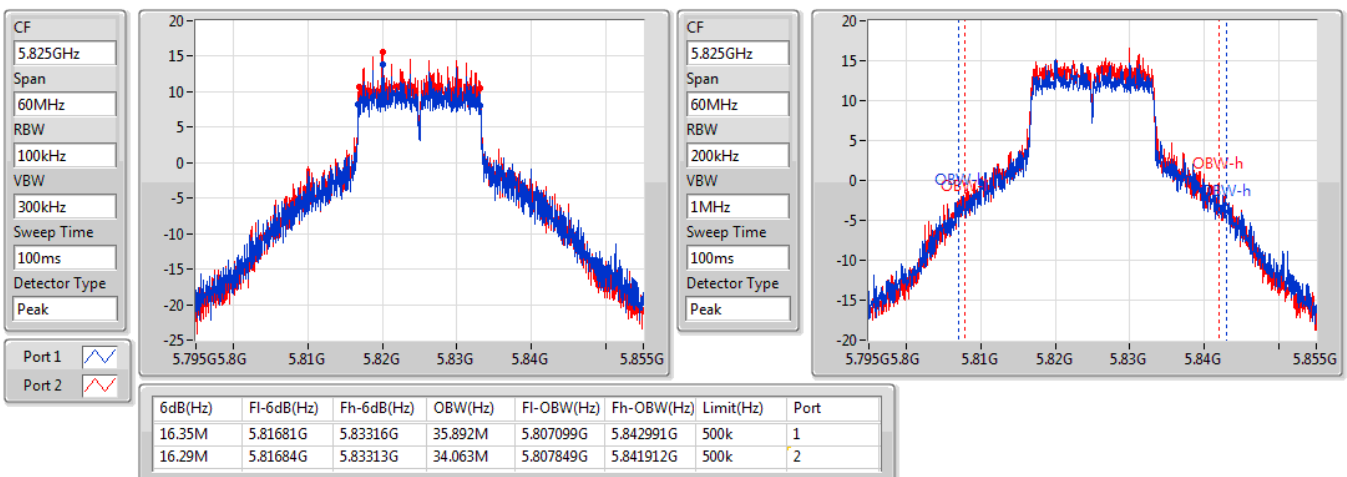
10/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5825MHz

10/07/2020

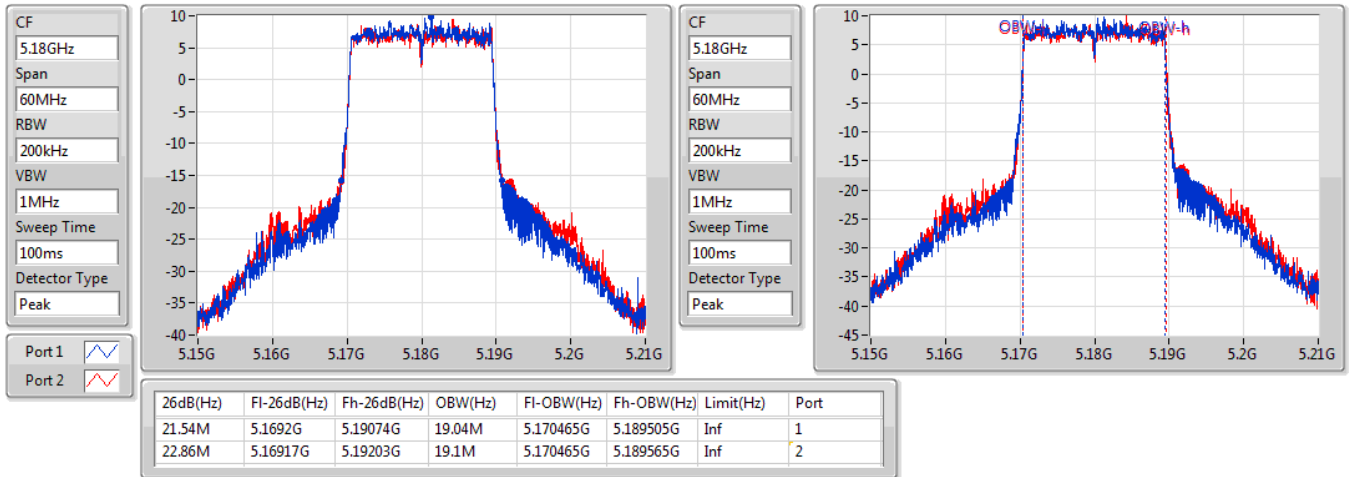


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5180MHz

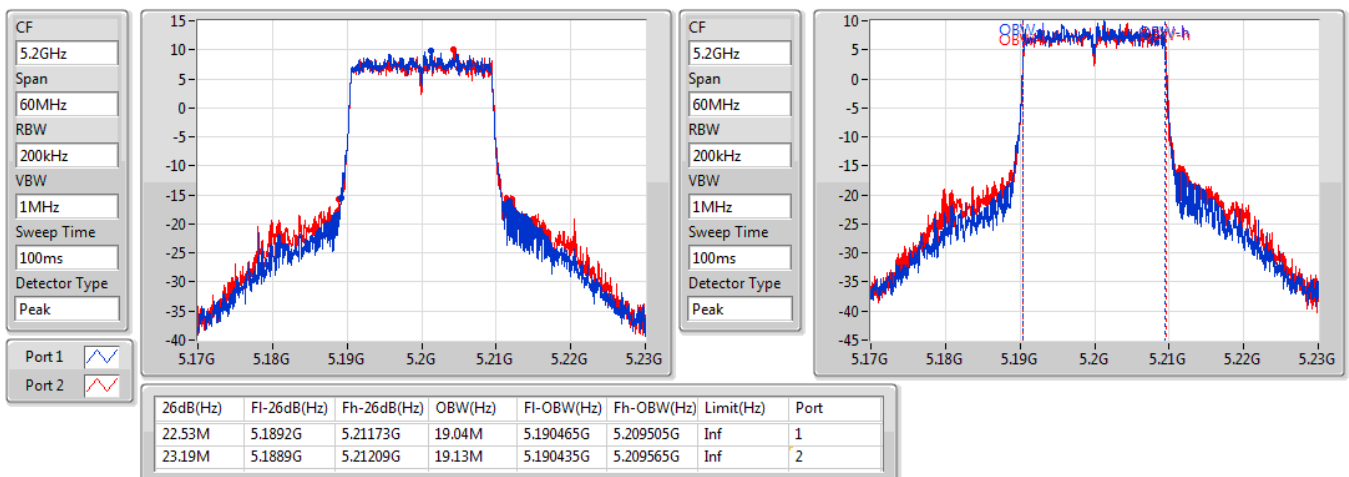
22/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5200MHz

22/07/2020

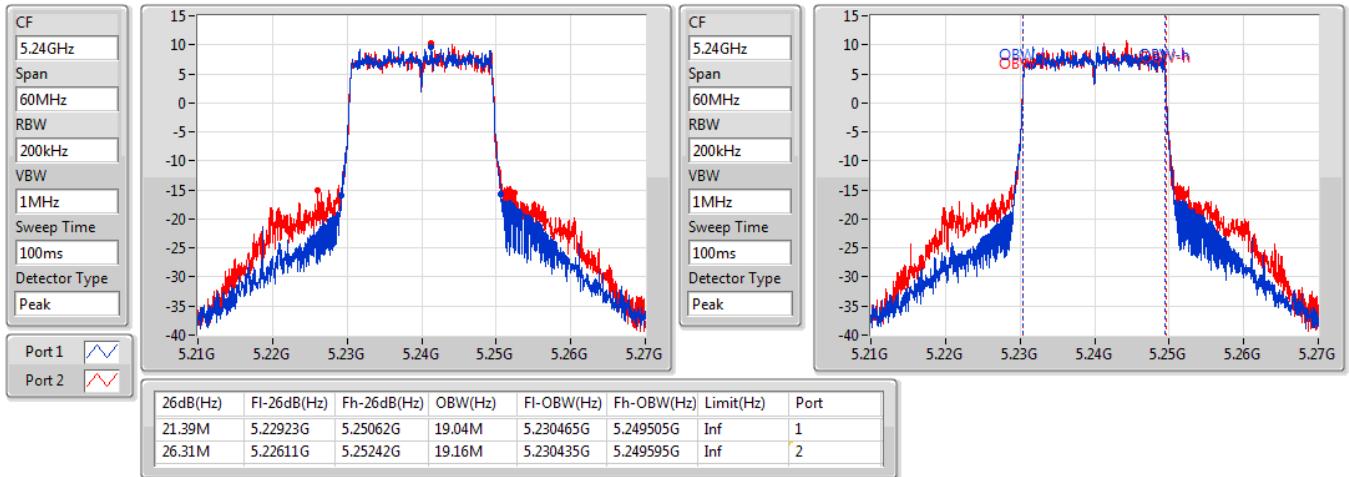


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5240MHz

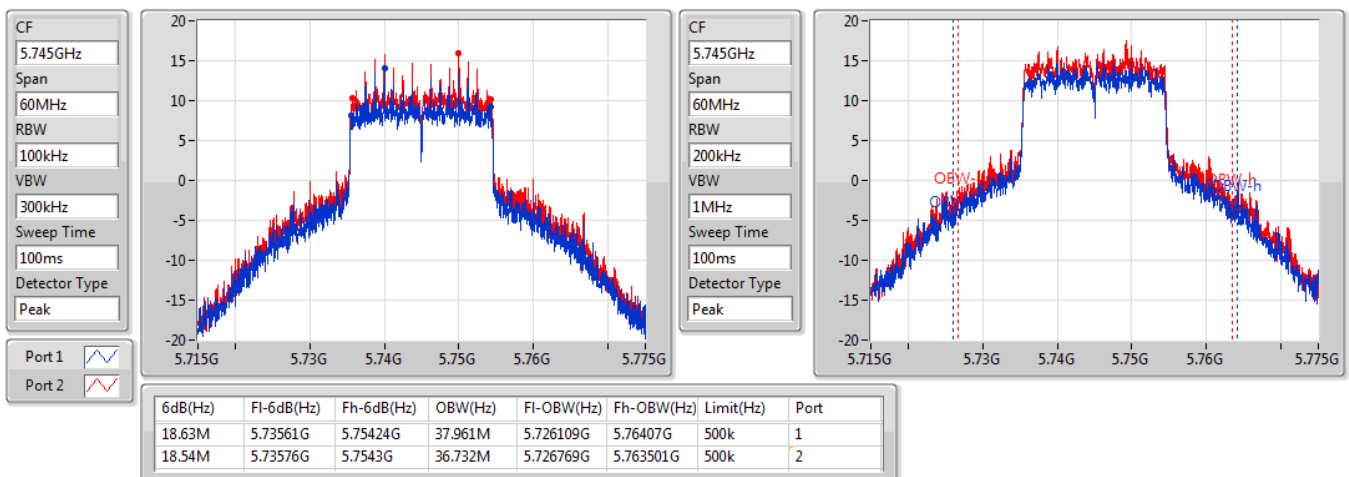
22/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5745MHz

10/07/2020

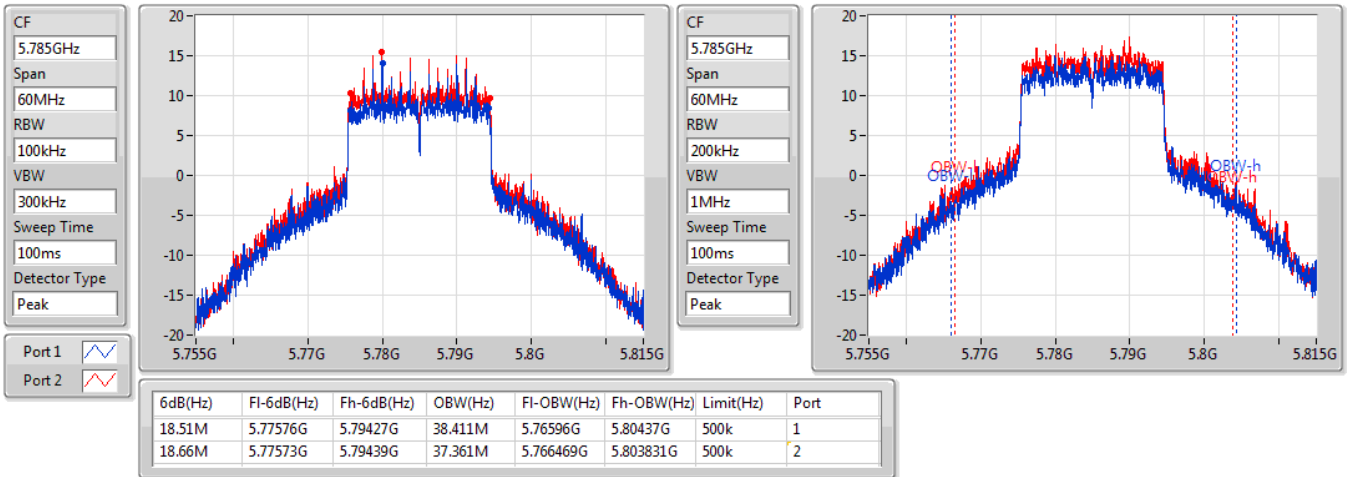


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5785MHz

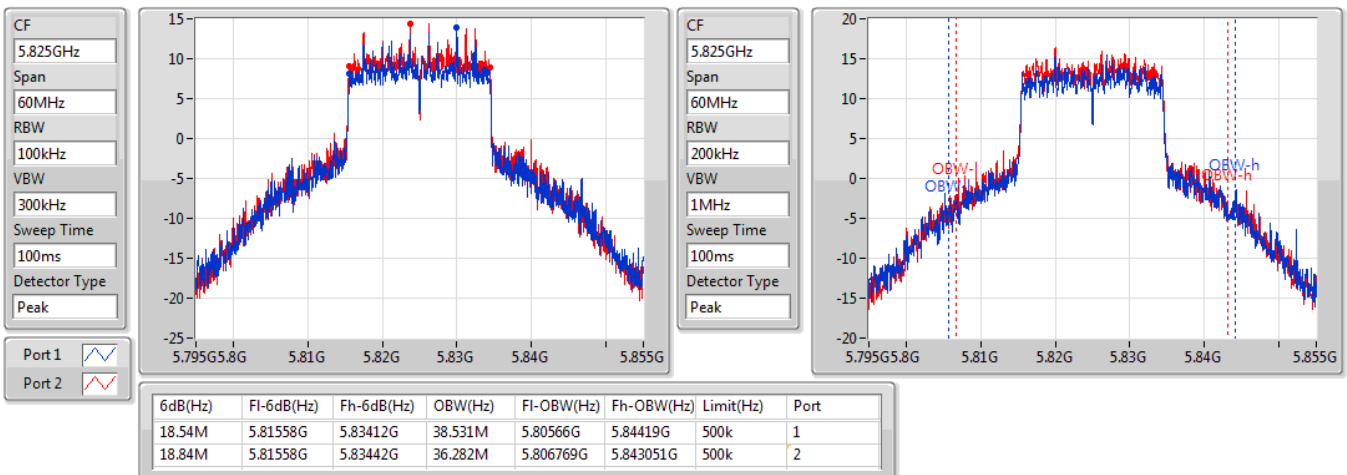
10/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5825MHz

10/07/2020

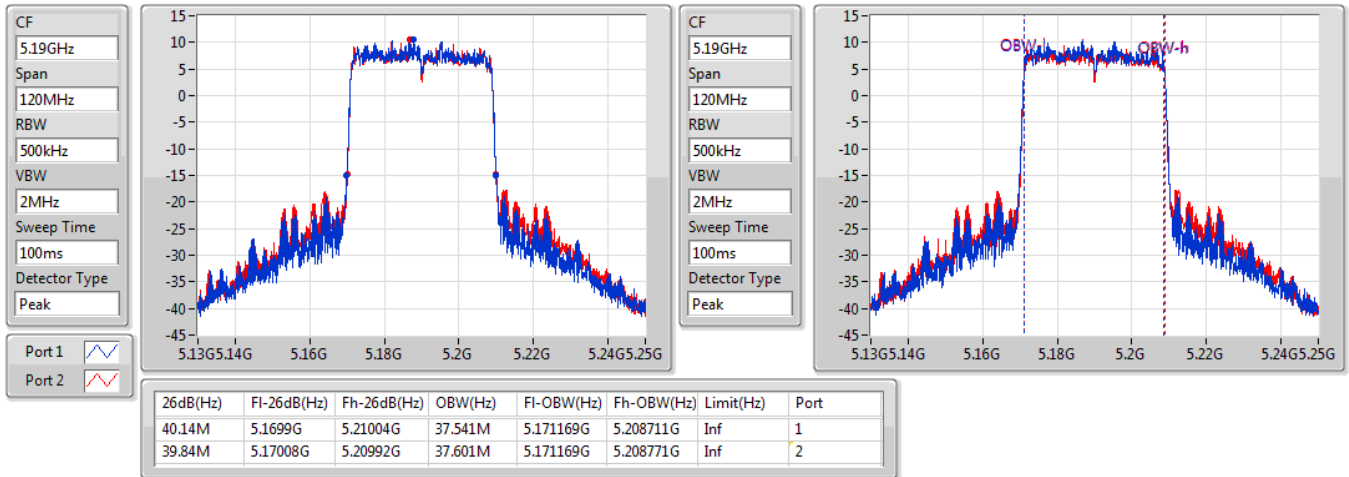


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5190MHz

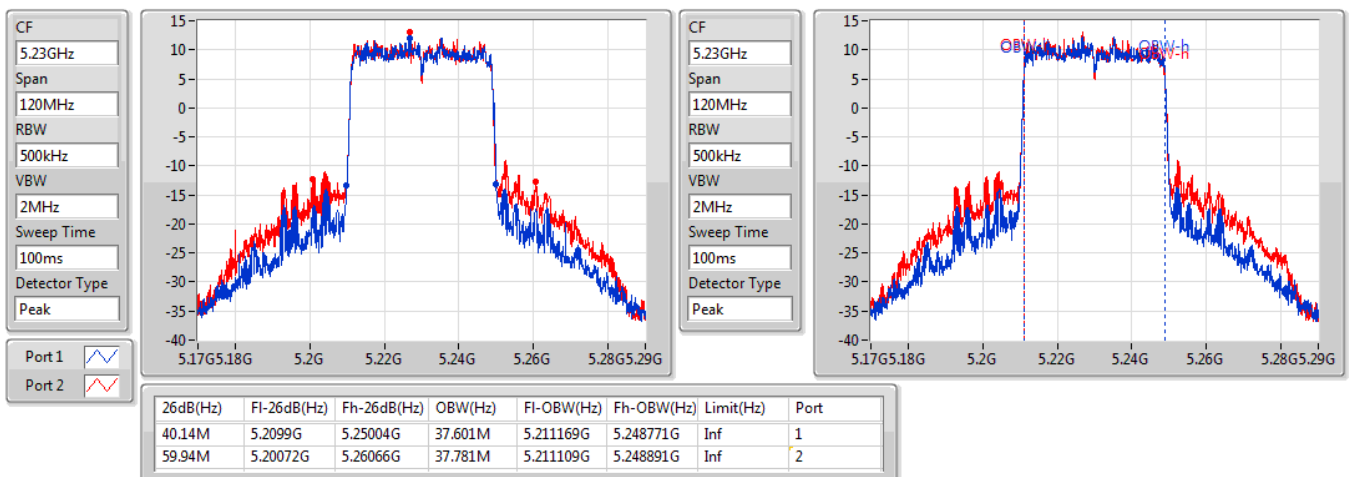
22/07/2020



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5230MHz

22/07/2020

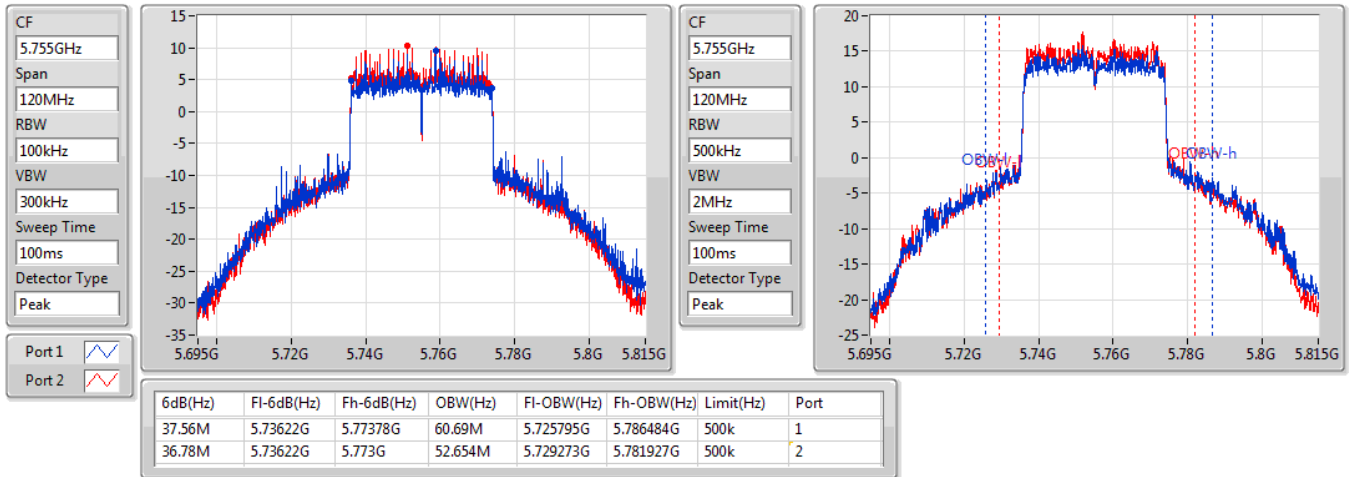


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5755MHz

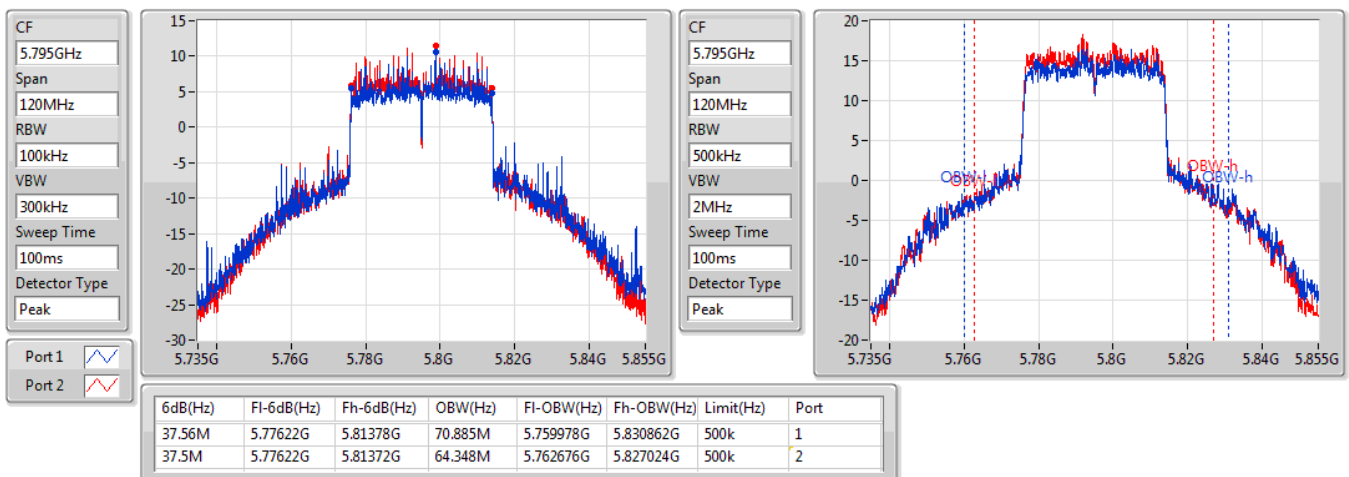
11/07/2020



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5795MHz

11/07/2020

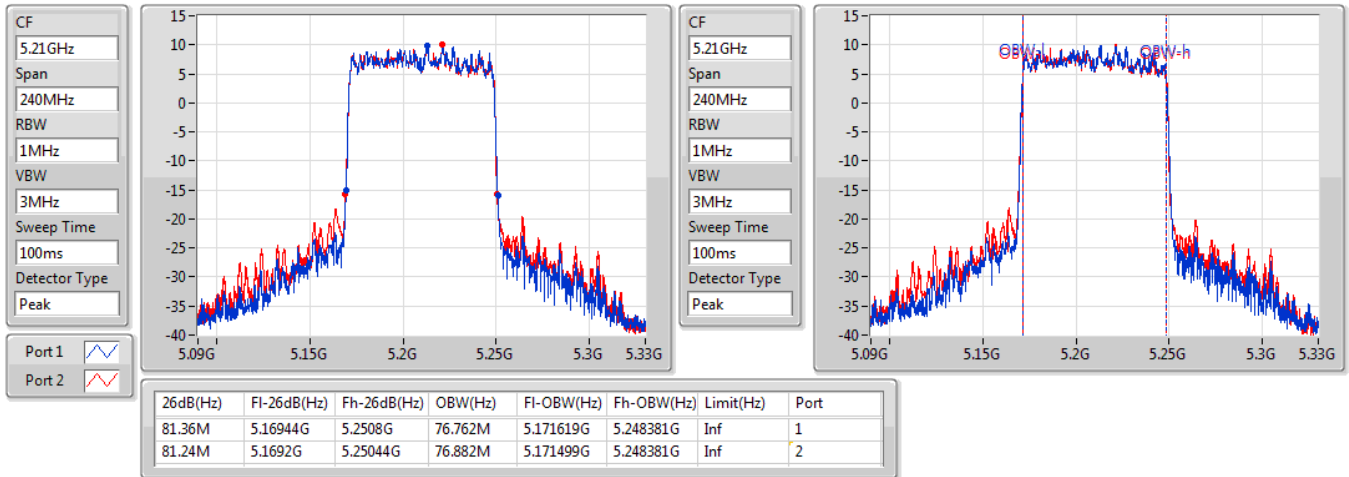


For EUT 2 / Radio 3 Band 1, Band 4 / External Ant.1_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5210MHz

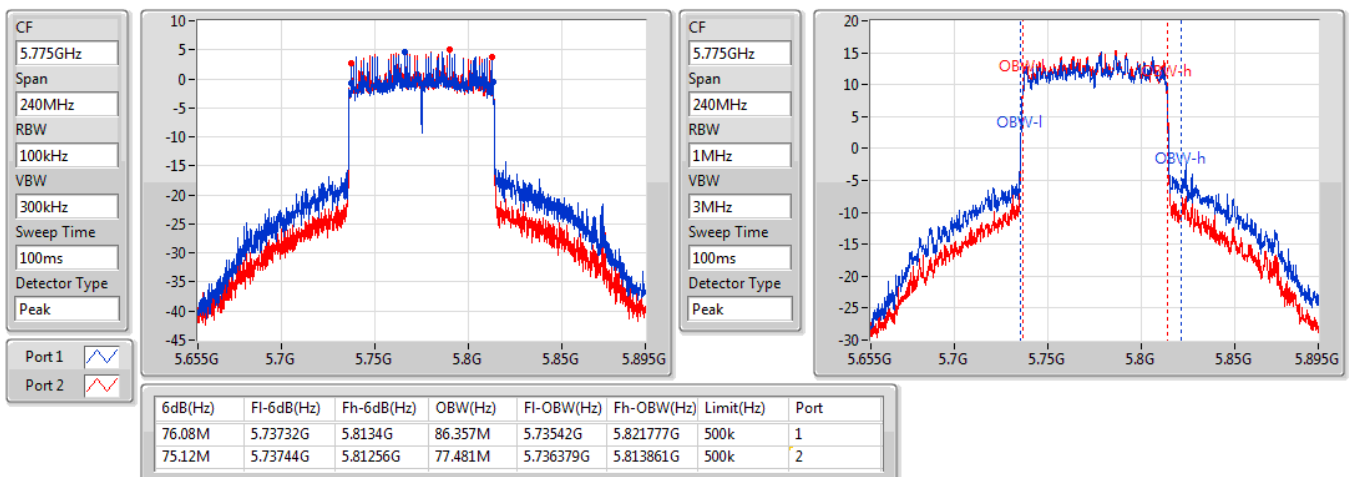
22/07/2020



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5775MHz

11/07/2020



**For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.87M	16.732M	16M7D1D	21.18M	16.702M
802.11ax HEW20_Nss1,(MCS0)_2TX	22.47M	19.1M	19M1D1D	21.36M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.56M	37.781M	37M8D1D	39.84M	37.541M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.36M	76.762M	76M8D1D	81M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.75M	16.792M	16M8D1D	15.523M	13.381M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.51M	19.1M	19M1D1D	15.61M	14.518M
802.11ax HEW40_Nss1,(MCS0)_2TX	51.3M	37.721M	37M7D1D	39.84M	33.771M
802.11ax HEW80_Nss1,(MCS0)_2TX	108M	77.121M	77M1D1D	81.36M	73.046M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.15M	4.408M	4M41D1D	3.15M	4.198M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.485M	4.768M	4M77D1D	4.47M	4.738M
802.11ax HEW40_Nss1,(MCS0)_2TX	3.81M	19.1M	19M1D1D	3.81M	18.351M
802.11ax HEW80_Nss1,(MCS0)_2TX	3.795M	24.063M	24M1D1D	3.72M	23.133M

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;

For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode
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	-	-	-	-	-	-
5260MHz	Pass	Inf	21.21M	16.732M	21.78M	16.702M
5300MHz	Pass	Inf	21.24M	16.732M	21.87M	16.702M
5320MHz	Pass	Inf	21.18M	16.732M	21.87M	16.702M
5500MHz	Pass	Inf	21.3M	16.732M	21.39M	16.702M
5580MHz	Pass	Inf	21.24M	16.792M	21.75M	16.702M
5700MHz	Pass	Inf	21.24M	16.762M	21.39M	16.672M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.523M	13.381M	15.855M	13.381M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	4.408M	3.15M	4.198M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.42M	19.04M	21.36M	19.1M
5300MHz	Pass	Inf	21.42M	19.04M	21.48M	19.1M
5320MHz	Pass	Inf	21.39M	19.04M	22.47M	19.1M
5500MHz	Pass	Inf	21.36M	19.04M	21.27M	19.1M
5580MHz	Pass	Inf	21.51M	19.04M	21.3M	19.07M
5700MHz	Pass	Inf	21.42M	19.01M	21.3M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.785M	14.518M	15.61M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.485M	4.738M	4.47M	4.768M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.2M	37.601M	43.56M	37.781M
5310MHz	Pass	Inf	40.08M	37.541M	39.84M	37.601M
5510MHz	Pass	Inf	40.02M	37.541M	39.84M	37.601M
5550MHz	Pass	Inf	43.92M	37.661M	51.3M	37.721M
5670MHz	Pass	Inf	47.82M	37.661M	39.96M	37.661M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42.263M	33.771M	40.125M	33.771M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.81M	19.1M	3.81M	18.351M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	76.762M	81M	76.762M
5530MHz	Pass	Inf	81.36M	76.642M	81.36M	76.762M
5610MHz	Pass	Inf	81.48M	76.882M	108M	77.121M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	89.9M	73.046M	89.823M	73.046M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.795M	24.063M	3.72M	23.133M

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

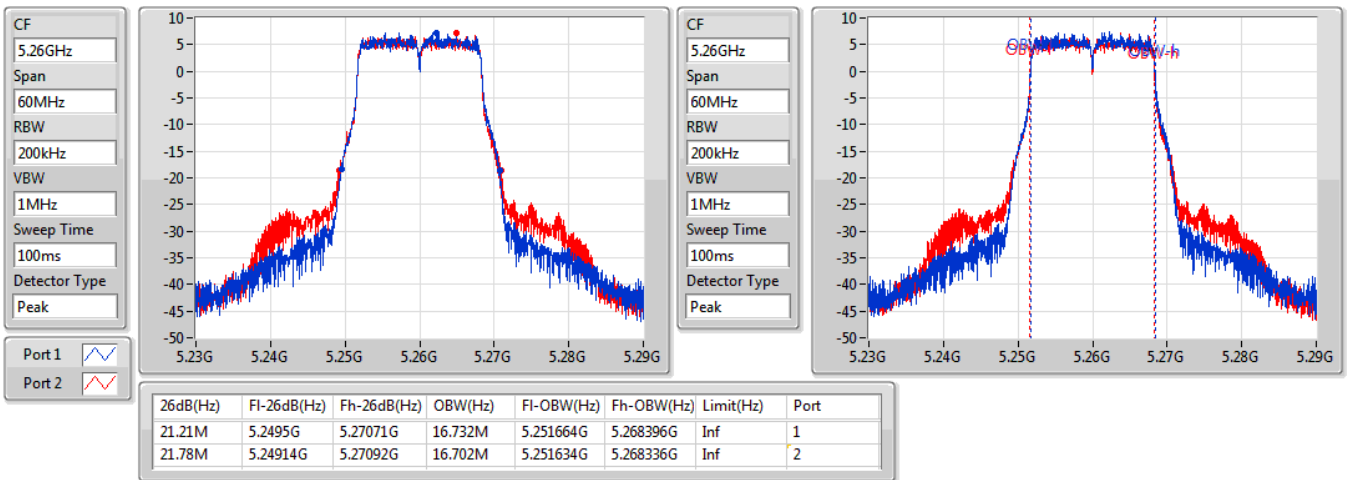
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5260MHz

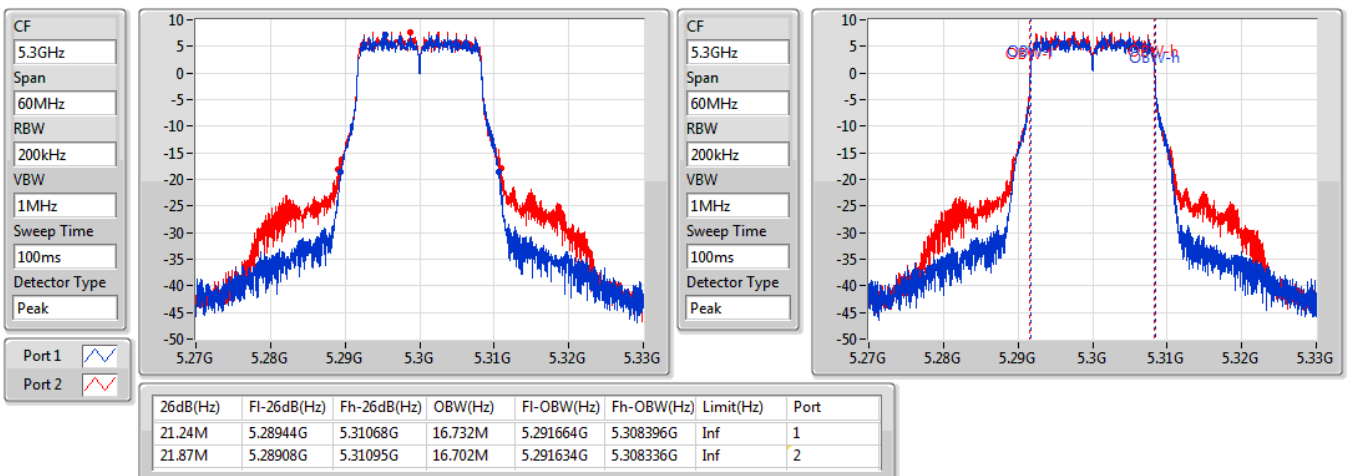
15/07/2020



802.11a_Nss1,(6Mbps)_2TX

EBW
5300MHz

15/07/2020

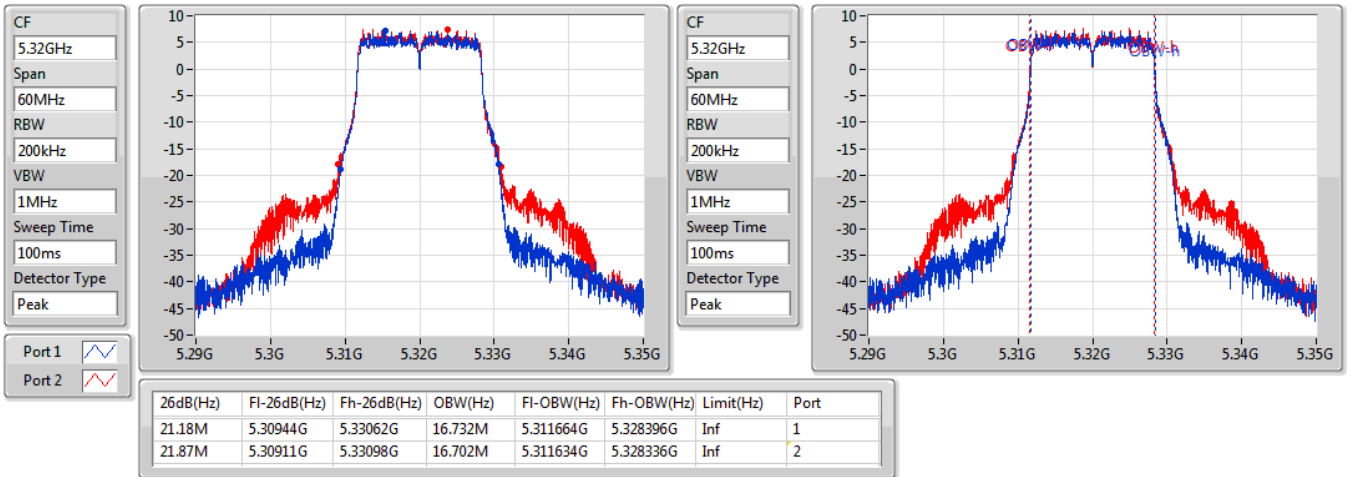


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5320MHz

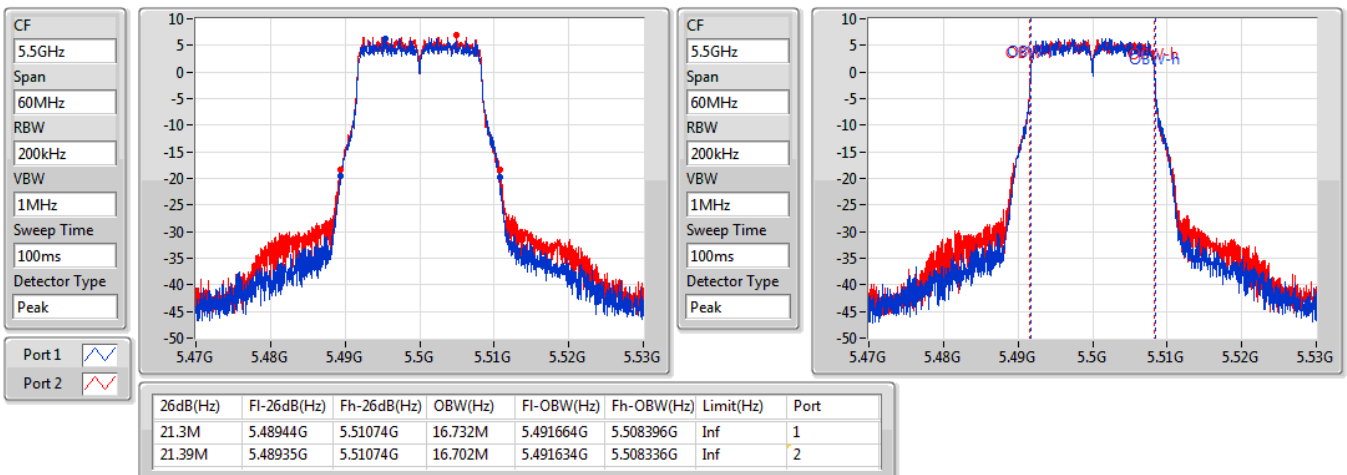
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802.11a_Nss1,(6Mbps)_2TX

EBW
5500MHz

15/07/2020

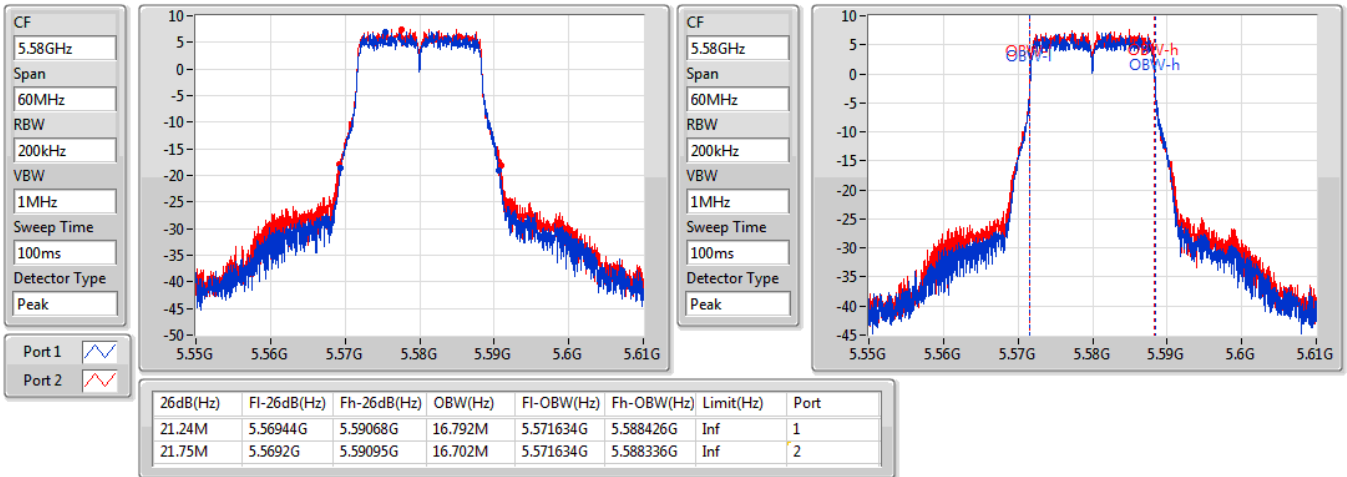


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW
5580MHz

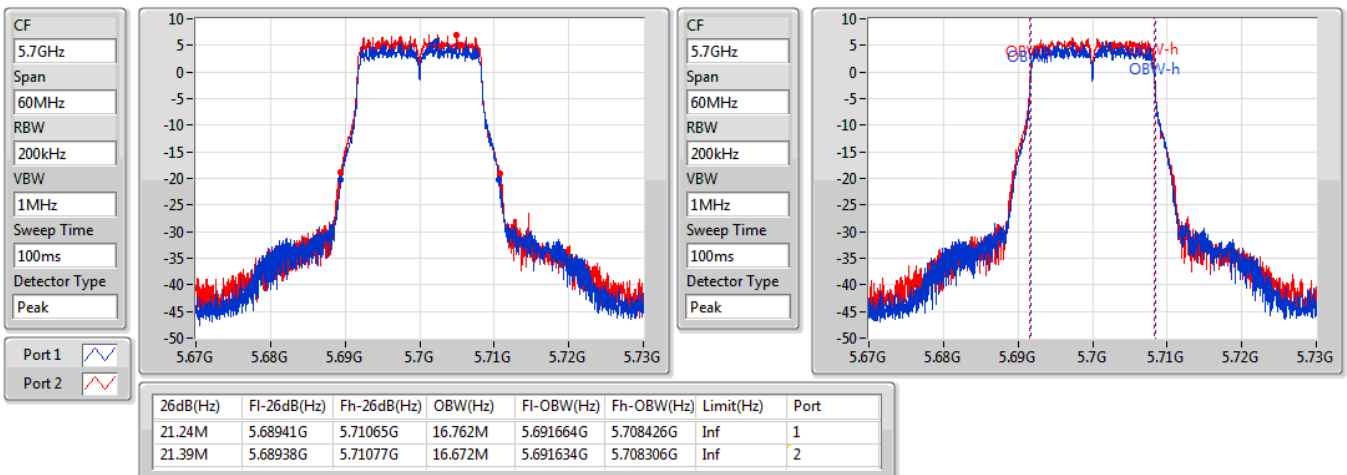
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802.11a_Nss1,(6Mbps)_2TX

EBW
5700MHz

15/07/2020



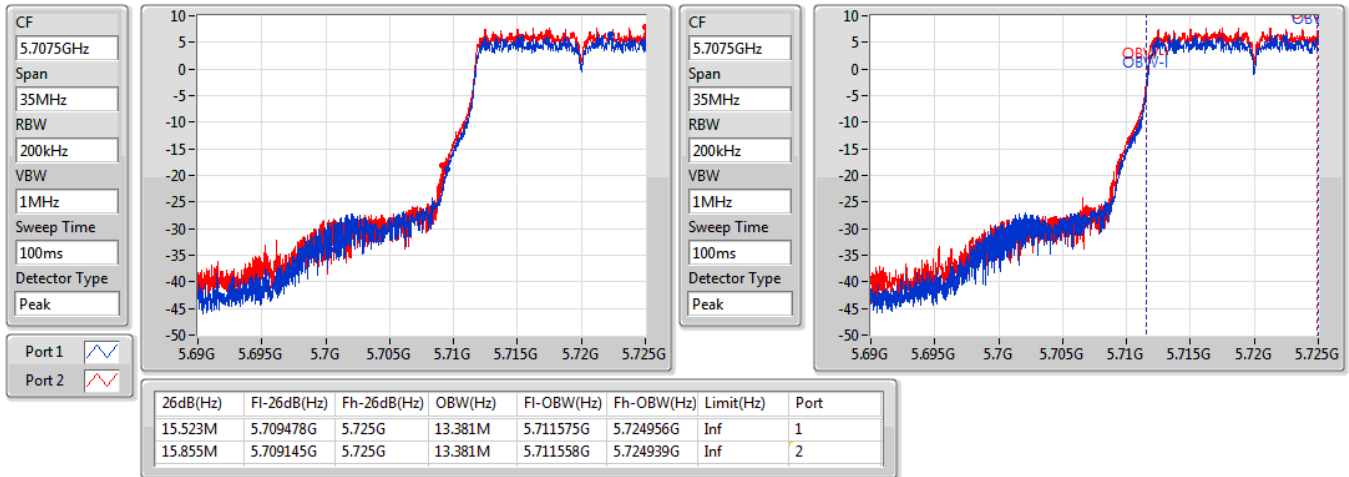
For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

15/07/2020

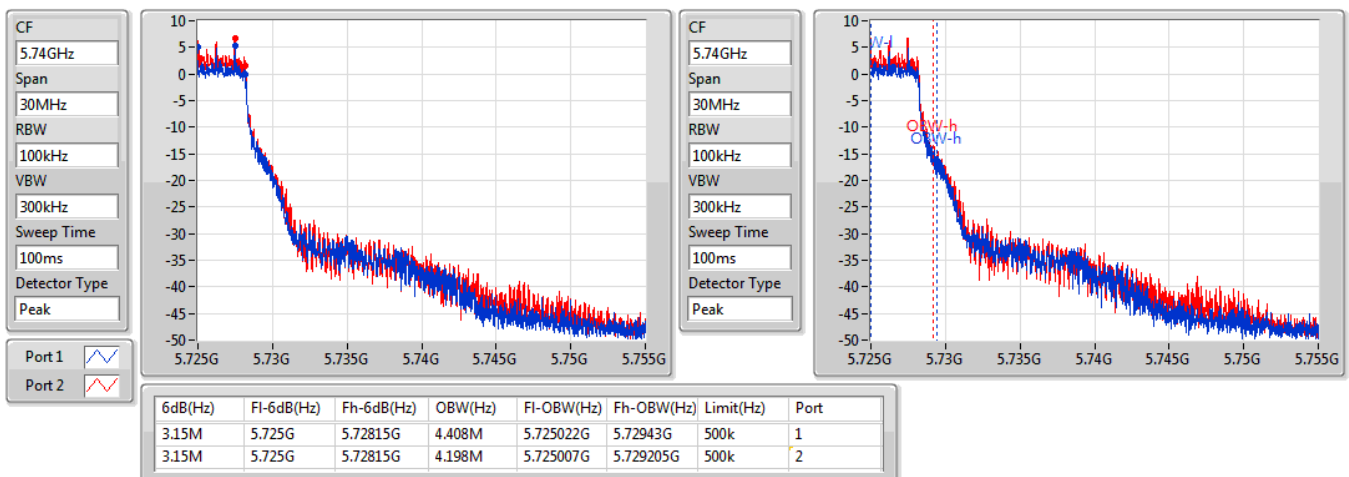


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/07/2020

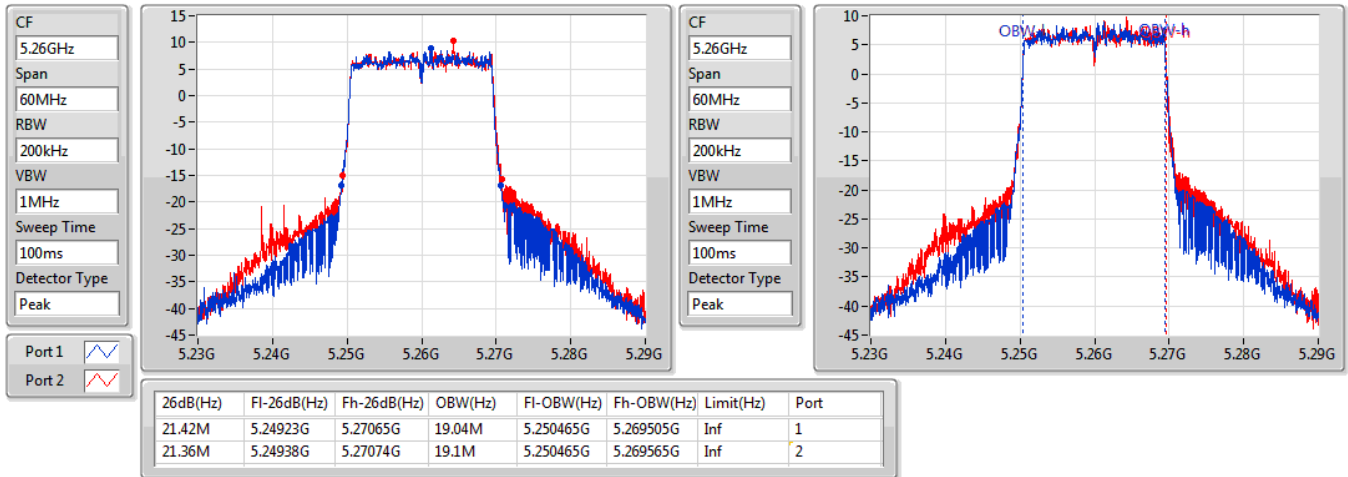


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5260MHz

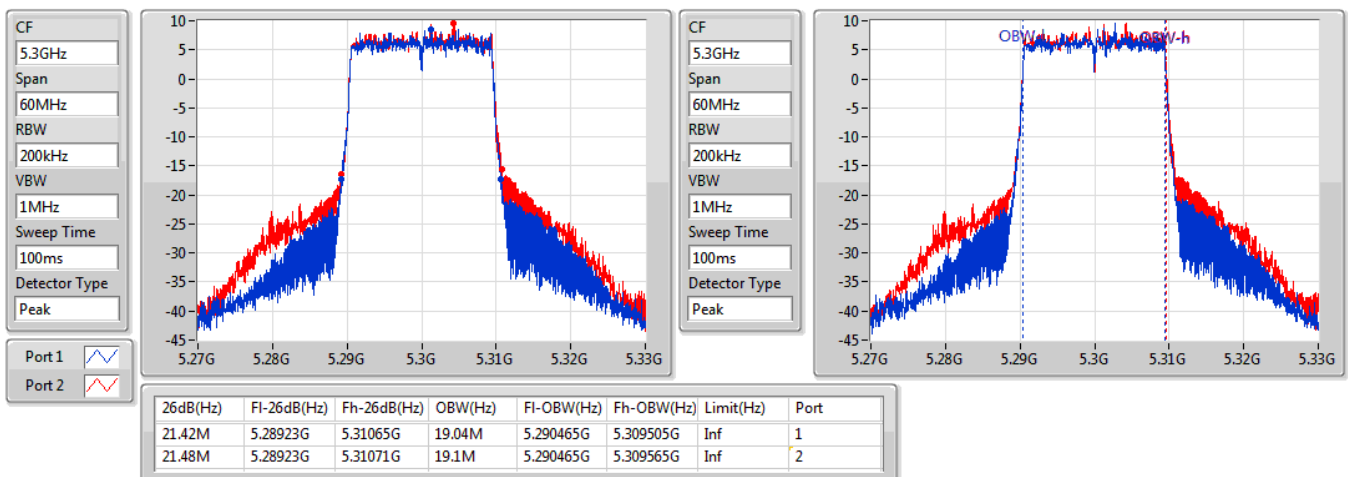
15/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5300MHz

15/07/2020

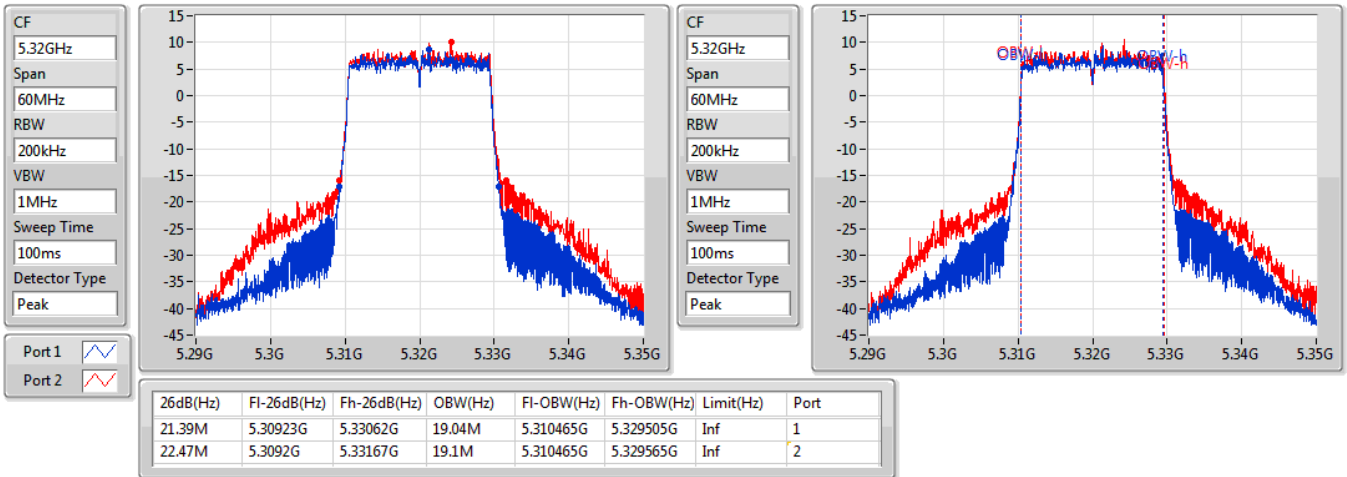


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5320MHz

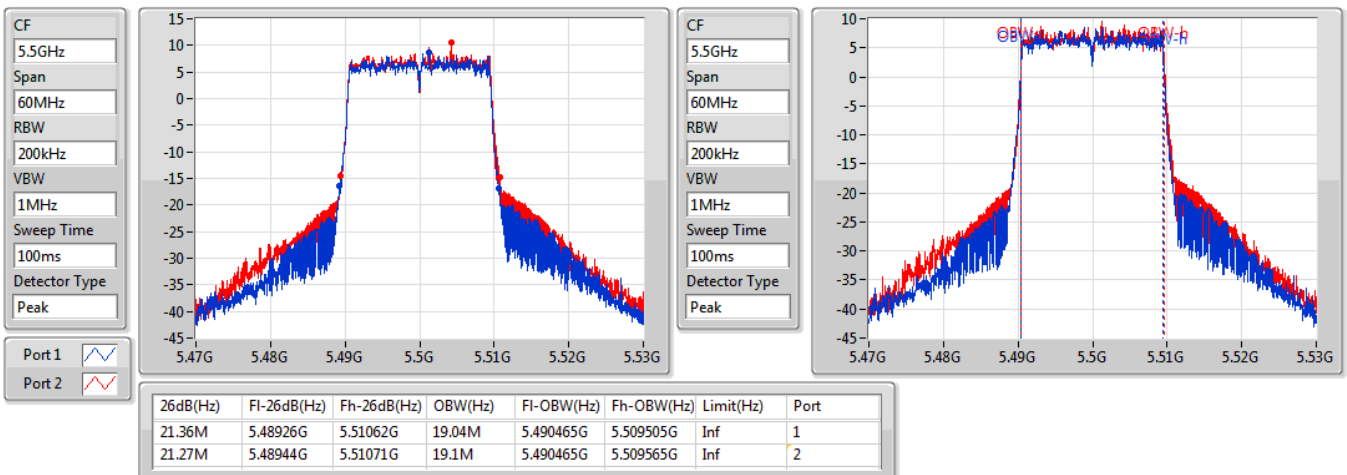
15/07/2020



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5500MHz

15/07/2020

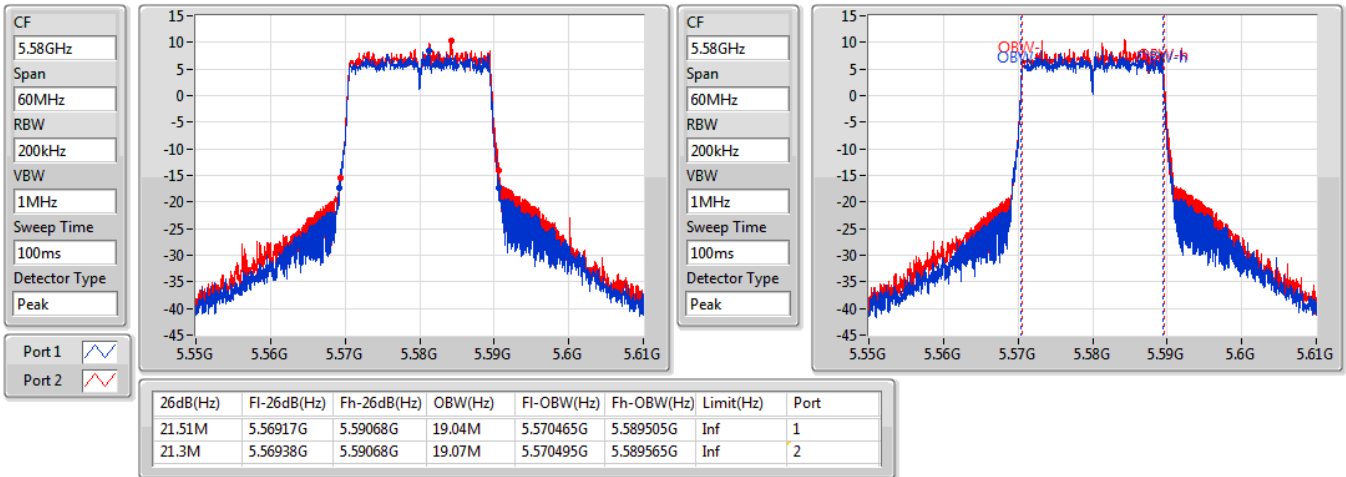


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5580MHz

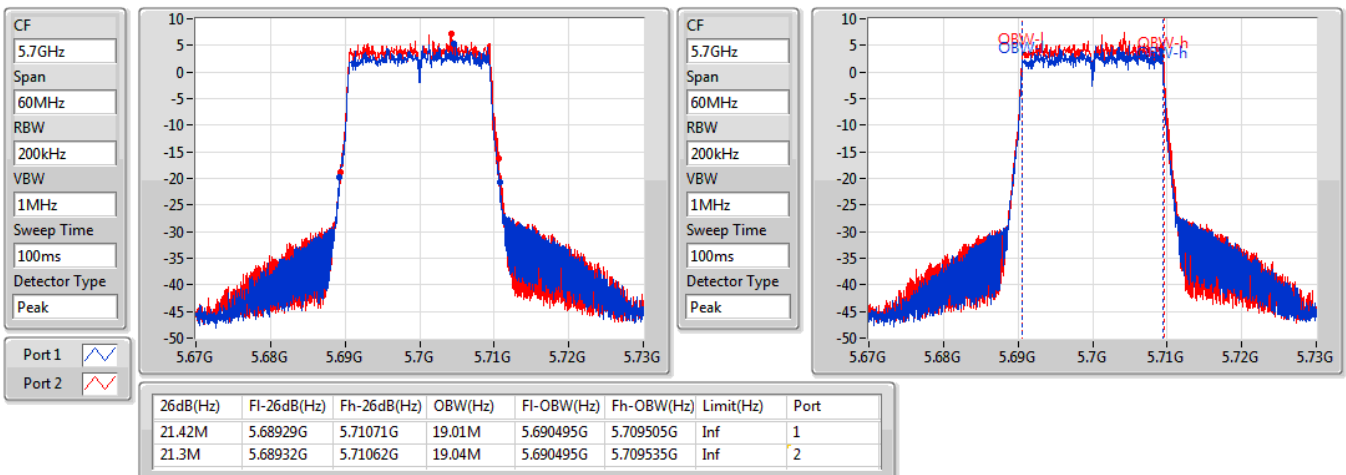
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW
5700MHz

15/07/2020



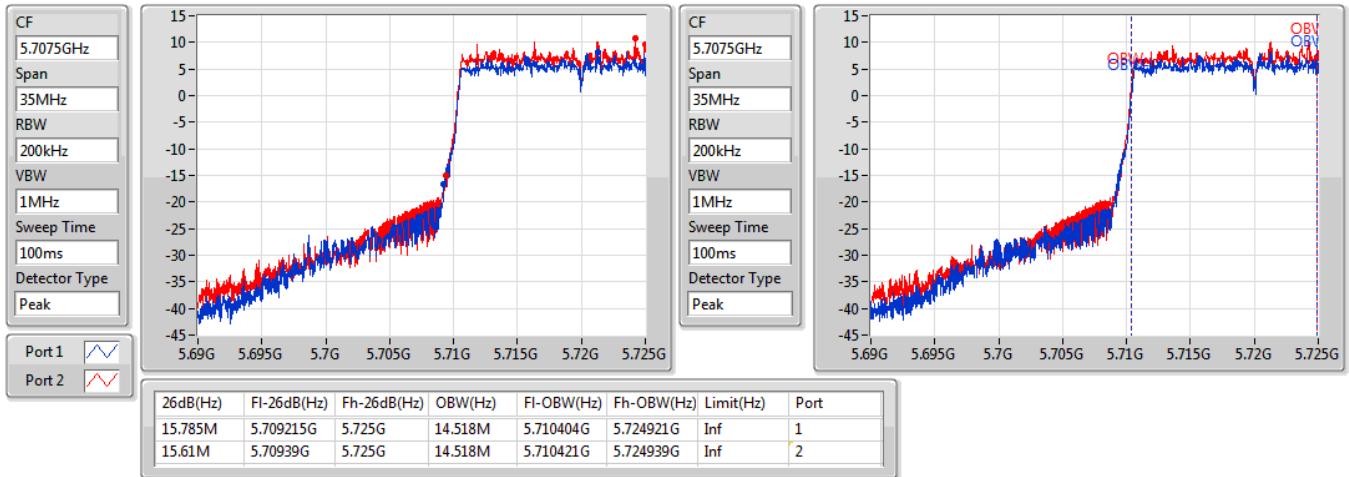
For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

15/07/2020

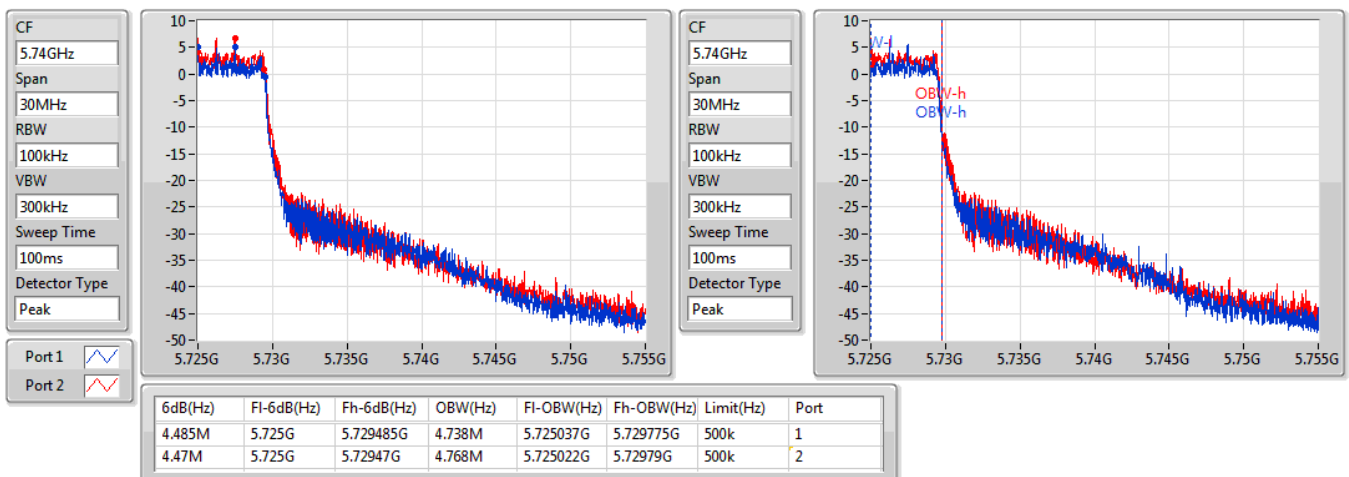


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/07/2020

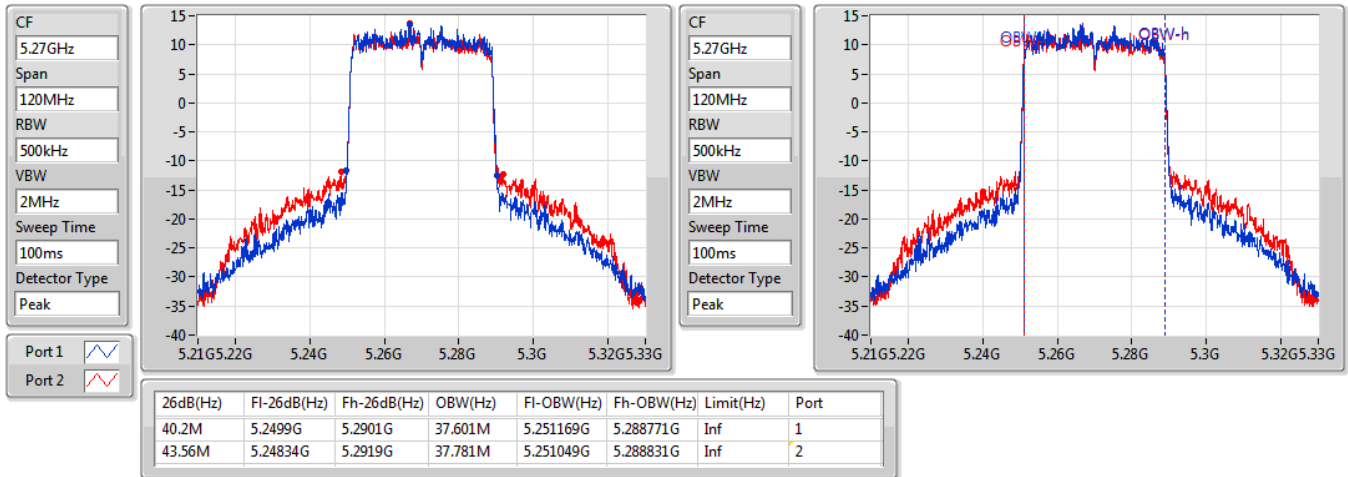


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5270MHz

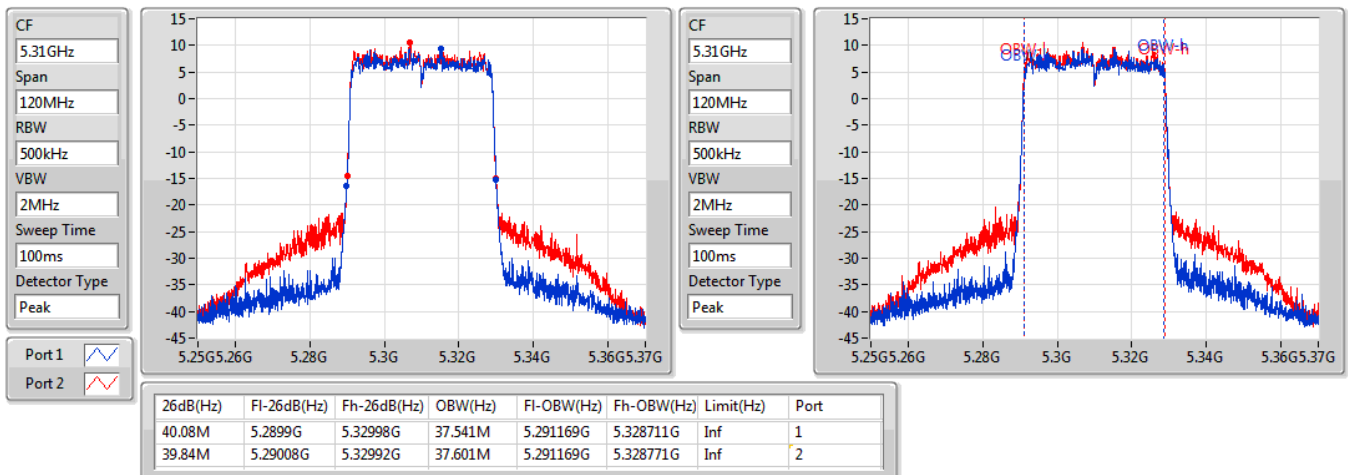
15/07/2020



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5310MHz

15/07/2020

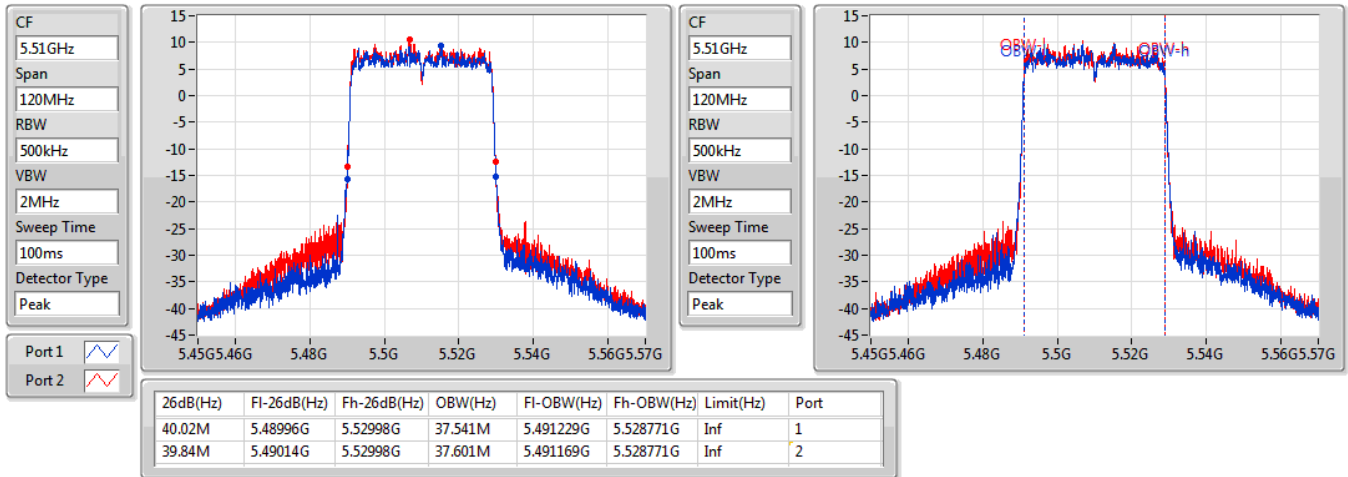


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5510MHz

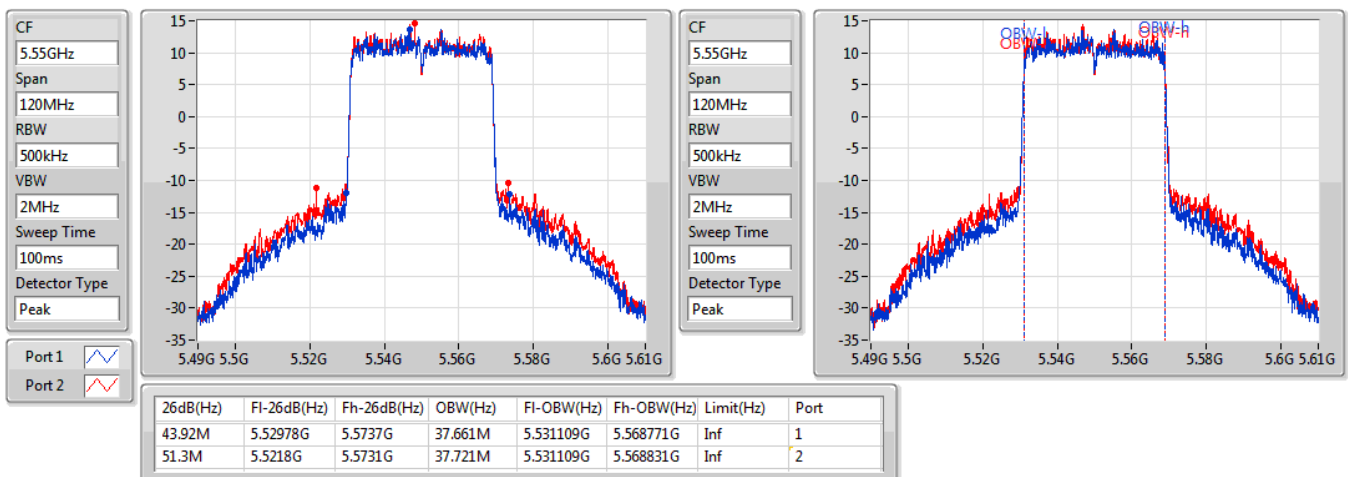
15/07/2020



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5550MHz

15/07/2020

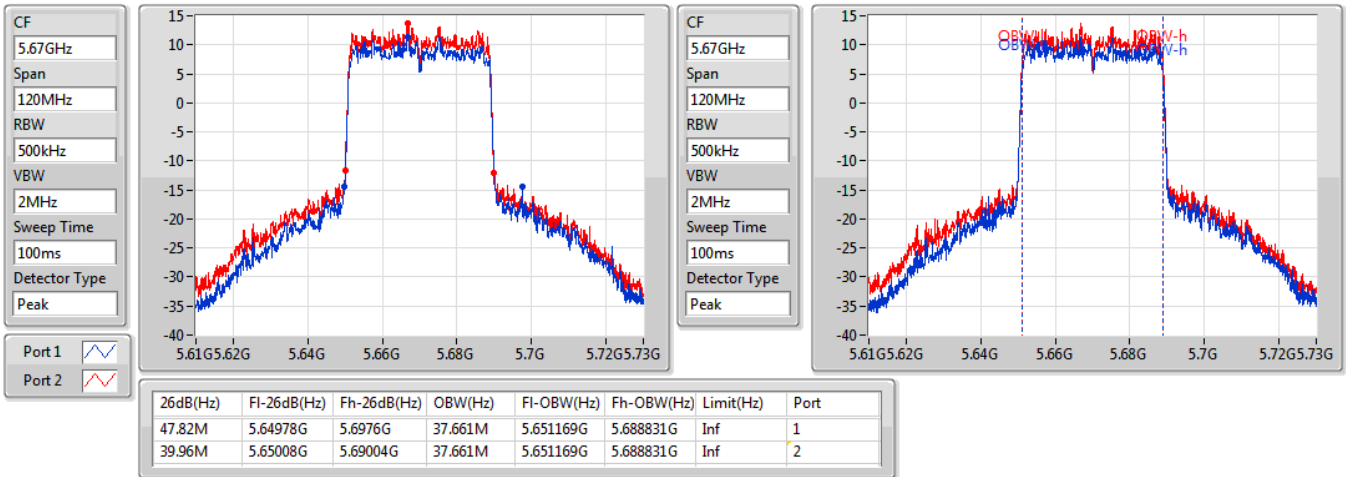


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5670MHz

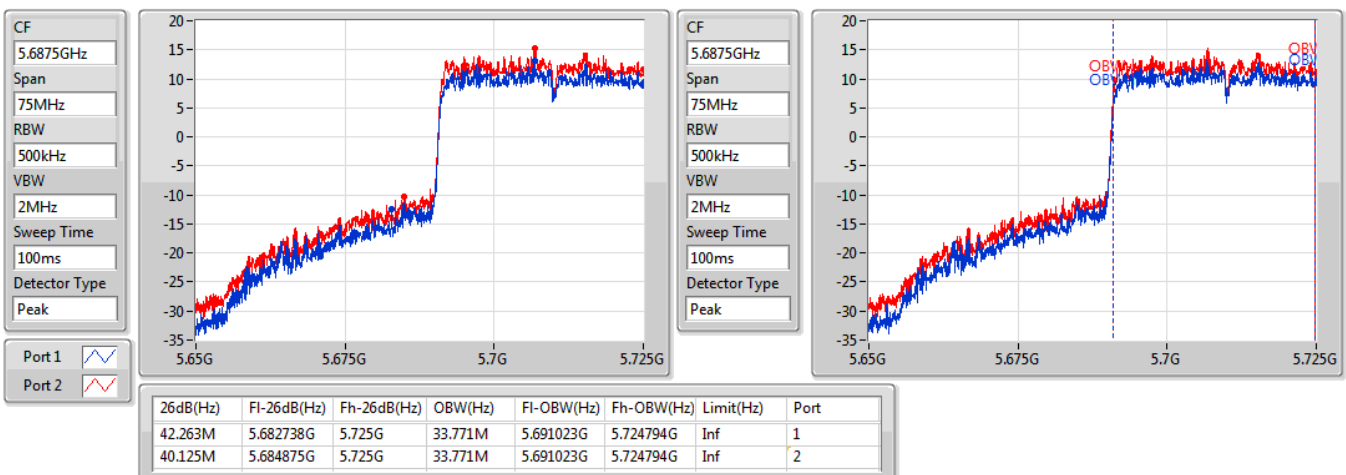
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW
5710MHz Straddle 5.47-5.725GHz

15/07/2020



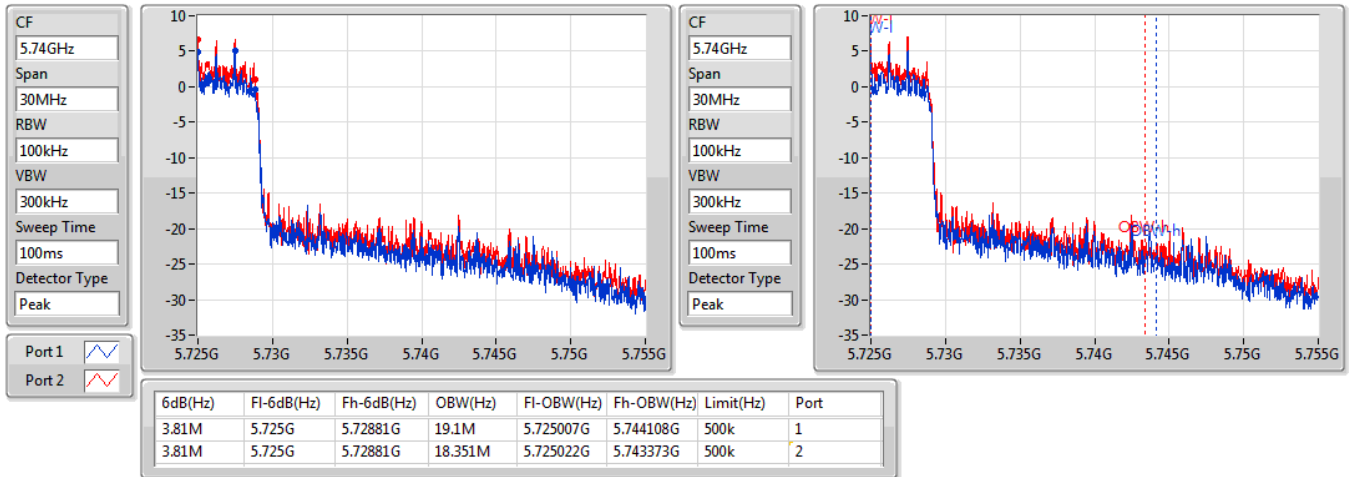
For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

15/07/2020

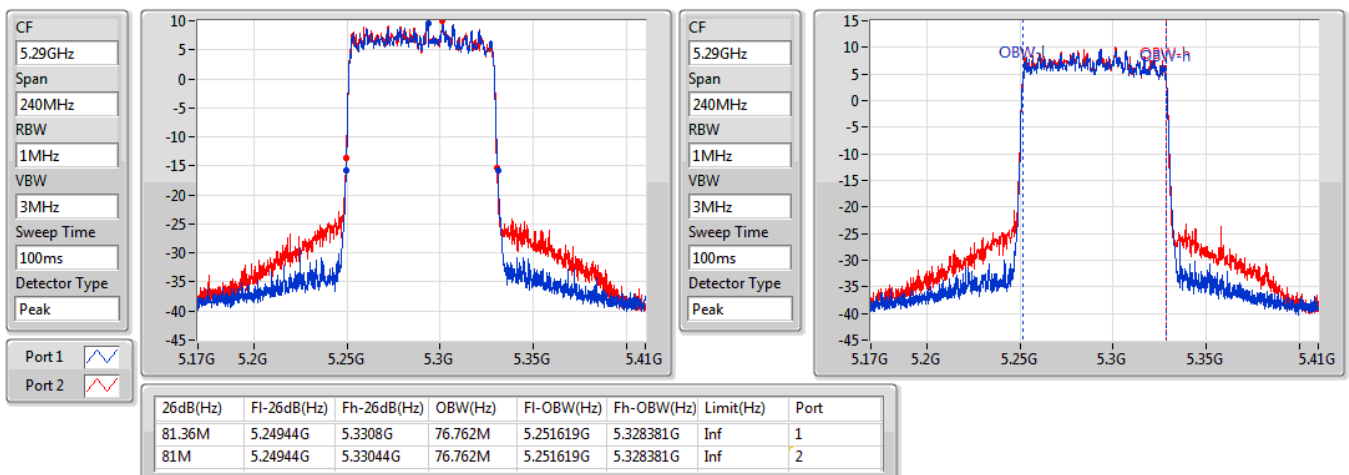


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

15/07/2020

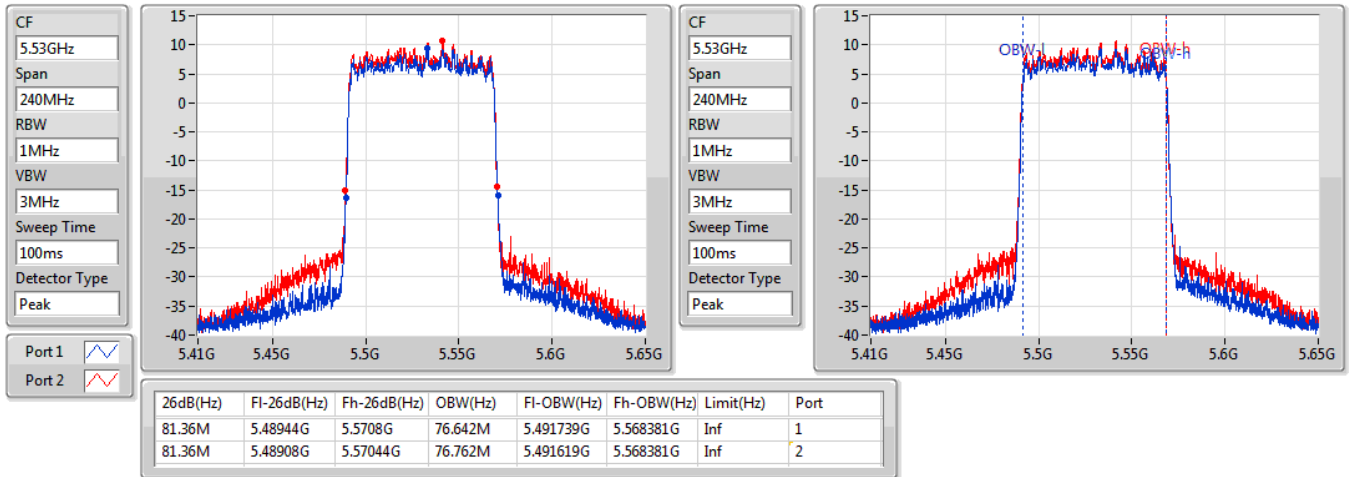


For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5530MHz

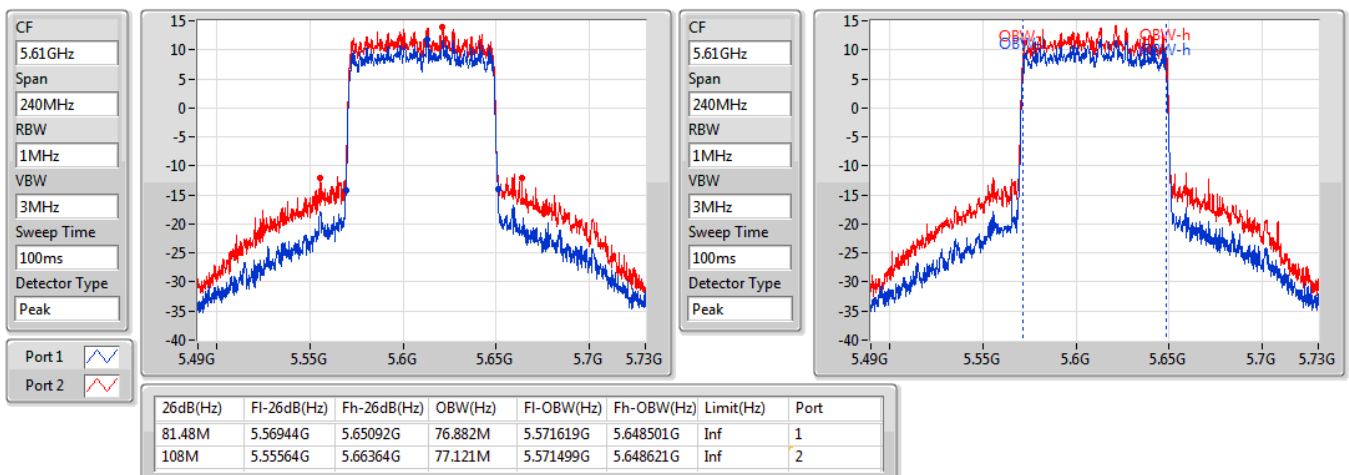
15/07/2020



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW
5610MHz

15/07/2020



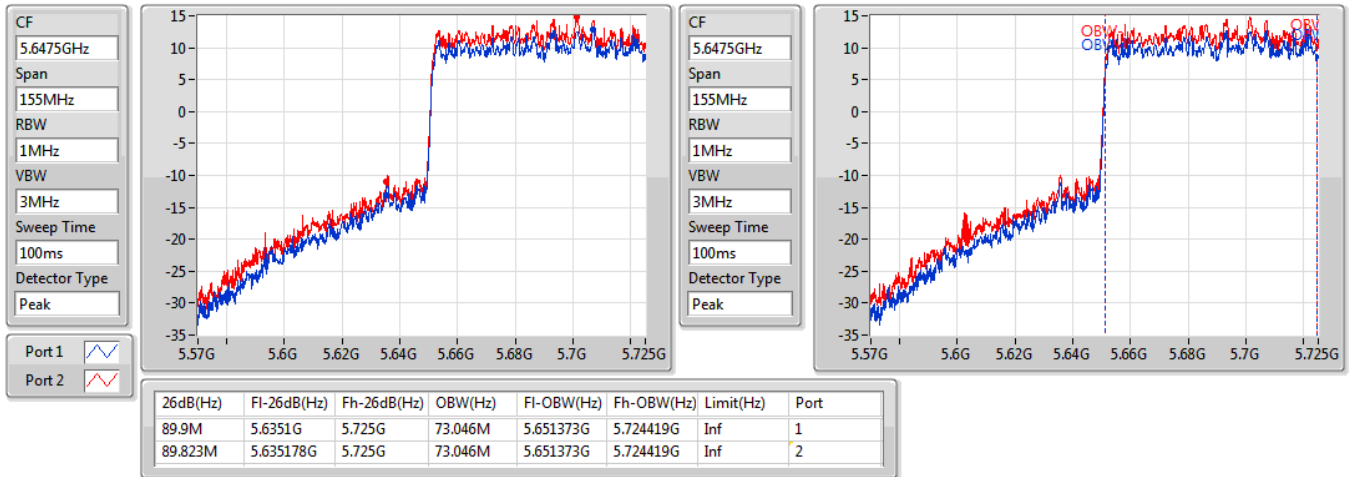
For EUT 2 / Radio 3 Band 2 ~ Band 3 / External Ant.1_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

15/07/2020

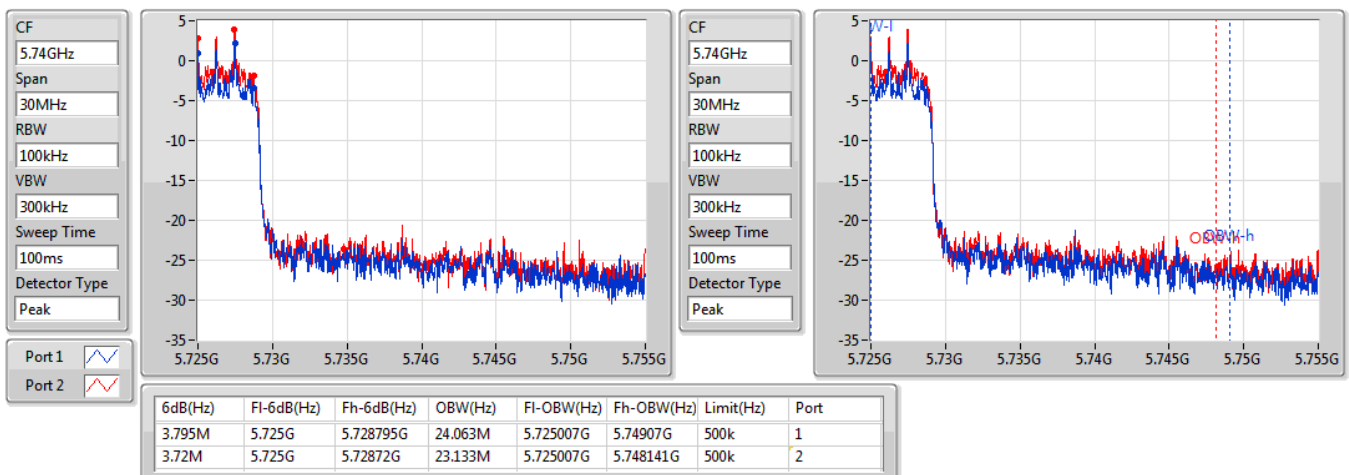


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

15/07/2020



**For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.45M	16.822M	16M8D1D	21.06M	16.672M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	19.13M	19M1D1D	21.3M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.541M	37M5D1D	39.78M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.72M	76.882M	76M9D1D	81.36M	76.642M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.5M	29.145M	29M1D1D	16.29M	18.291M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.9M	30.195M	30M2D1D	18.48M	19.82M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.62M	56.552M	56M6D1D	36.24M	38.861M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.08M	77.601M	77M6D1D	75.12M	77.001M

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;

**For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.06M	16.732M	21.39M	16.792M	21.3M	16.732M	21.33M	16.672M
5200MHz	Pass	Inf	21.12M	16.672M	21.39M	16.822M	21.36M	16.732M	21.27M	16.672M
5240MHz	Pass	Inf	21.15M	16.732M	21.45M	16.822M	21.36M	16.732M	21.27M	16.672M
5745MHz	Pass	500k	16.32M	19.28M	16.35M	23.928M	16.32M	29.145M	16.29M	25.937M
5785MHz	Pass	500k	16.32M	18.291M	16.38M	21.469M	16.32M	25.997M	16.5M	24.228M
5825MHz	Pass	500k	16.38M	18.621M	16.29M	22.909M	16.29M	26.357M	16.32M	24.708M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.48M	19.04M	21.45M	19.04M	21.54M	19.07M	21.6M	19.13M
5200MHz	Pass	Inf	21.57M	19.04M	21.45M	19.01M	21.57M	19.07M	21.48M	19.07M
5240MHz	Pass	Inf	21.48M	19.01M	21.3M	19.07M	21.57M	19.07M	21.48M	19.1M
5745MHz	Pass	500k	18.75M	20.03M	18.72M	23.988M	18.48M	30.195M	18.72M	26.327M
5785MHz	Pass	500k	18.84M	19.82M	18.66M	23.628M	18.57M	29.415M	18.72M	26.537M
5825MHz	Pass	500k	18.9M	19.82M	18.72M	24.168M	18.57M	28.186M	18.72M	25.937M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.541M	39.78M	37.541M	39.9M	37.481M	40.14M	37.541M
5230MHz	Pass	Inf	40.14M	37.541M	39.9M	37.541M	40.02M	37.541M	40.08M	37.541M
5755MHz	Pass	500k	37.56M	40.72M	36.24M	46.777M	37.56M	56.552M	36.84M	55.772M
5795MHz	Pass	500k	37.56M	38.861M	37.62M	42.459M	36.3M	50.495M	36.78M	52.954M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	76.642M	81.36M	76.762M	81.48M	76.882M	81.72M	76.762M
5775MHz	Pass	500k	76.08M	77.001M	75.12M	77.241M	75.36M	77.601M	75.12M	77.601M

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

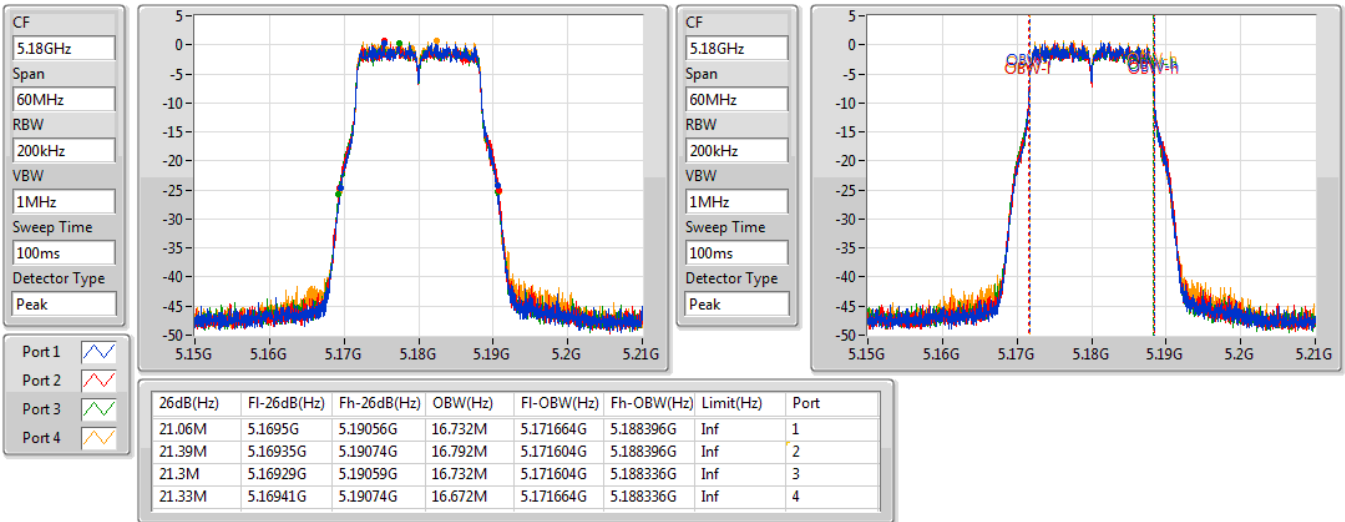
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

5180MHz

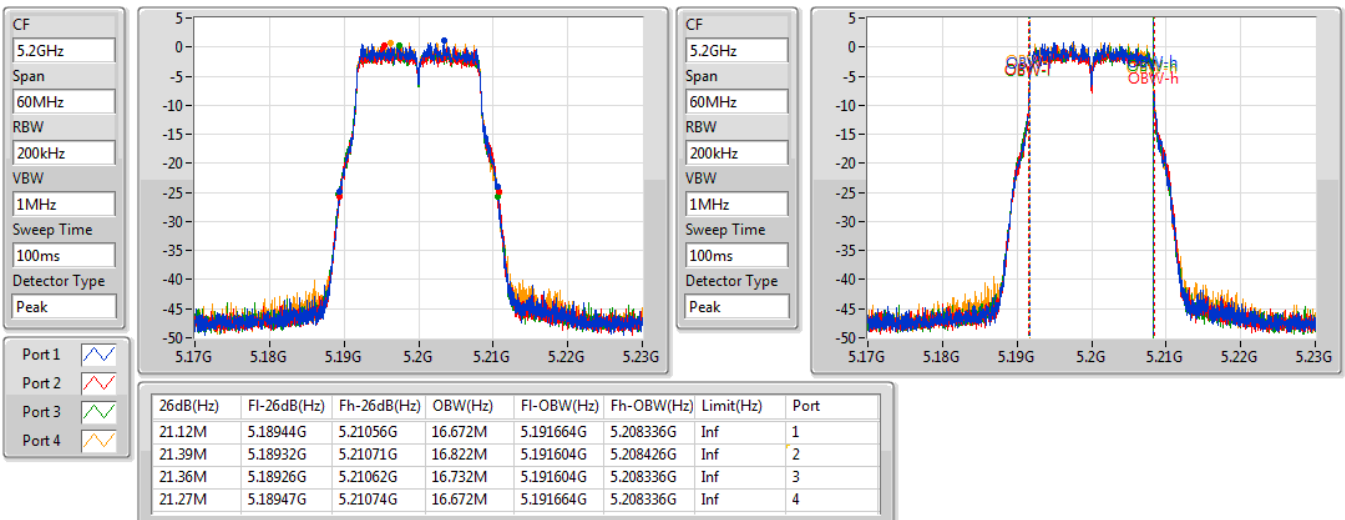
21/07/2020



802.11a_Nss1,(6Mbps)_4TX

5200MHz

21/07/2020

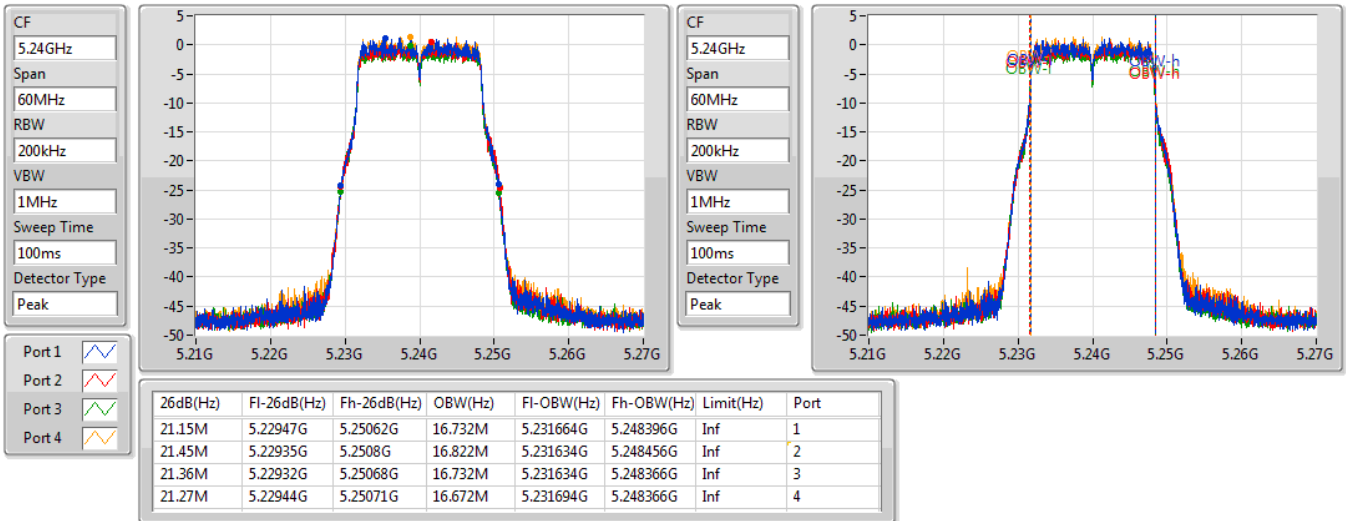


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5240MHz

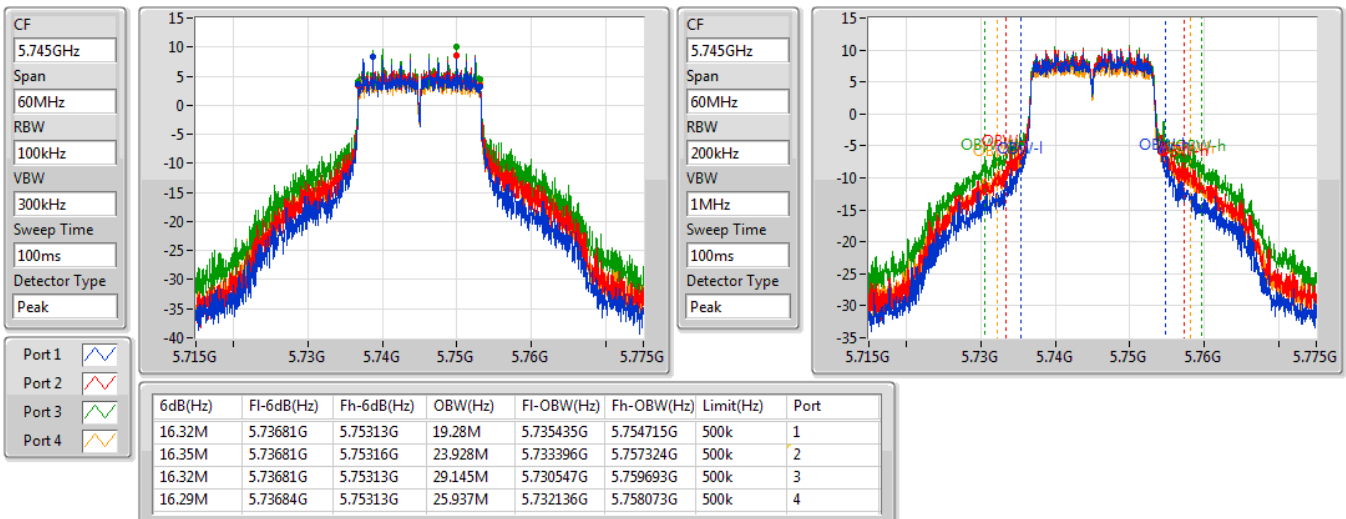
21/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5745MHz

10/07/2020

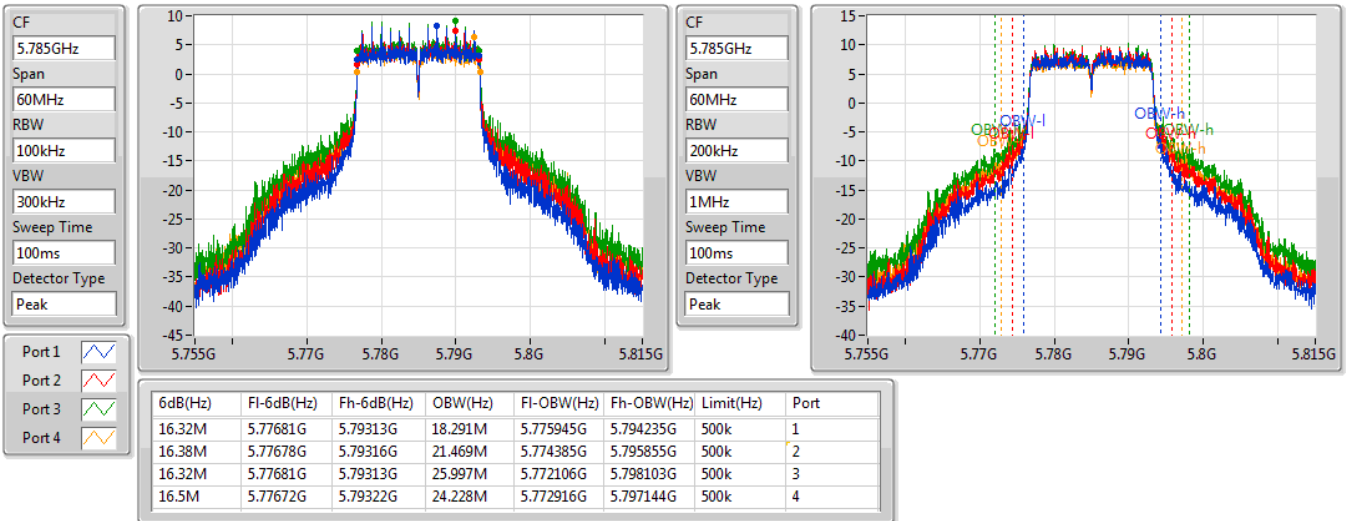


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5785MHz

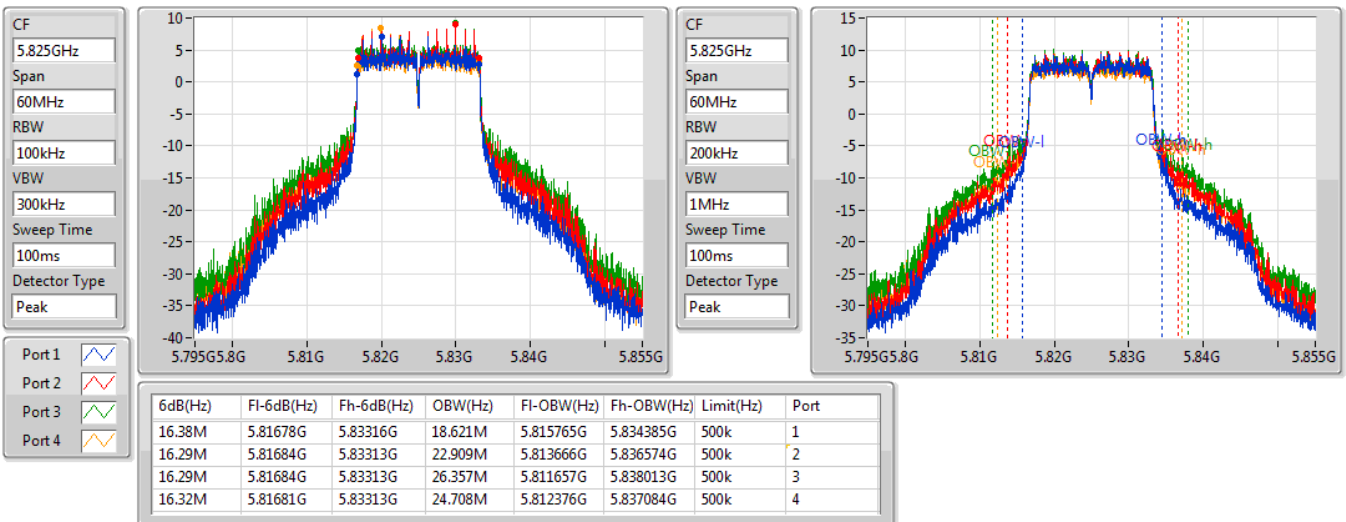
10/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5825MHz

10/07/2020

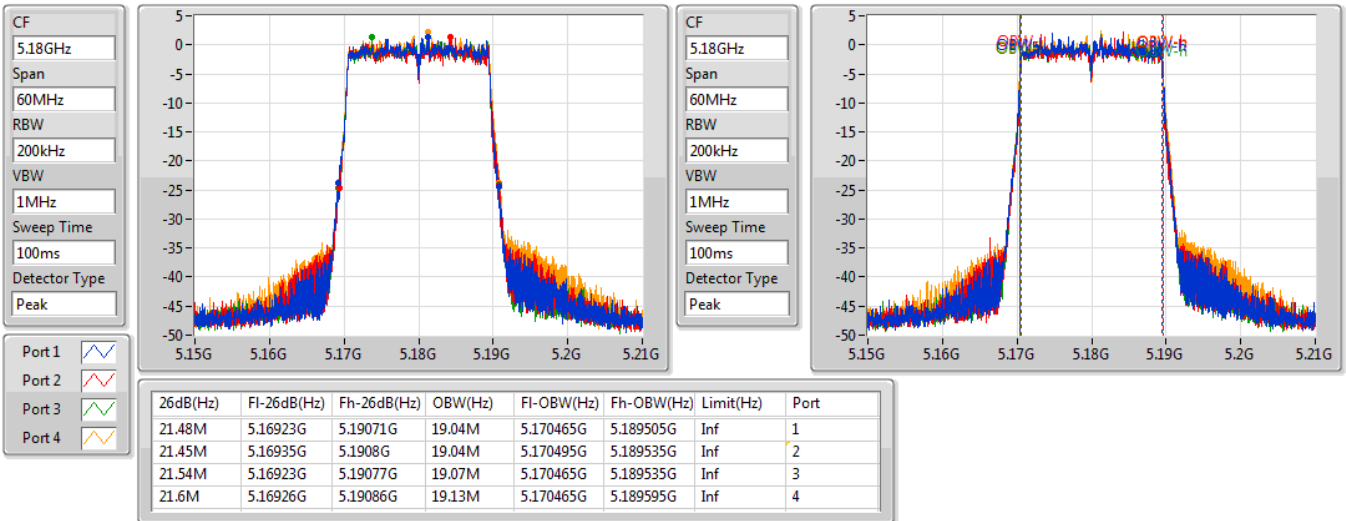


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5180MHz

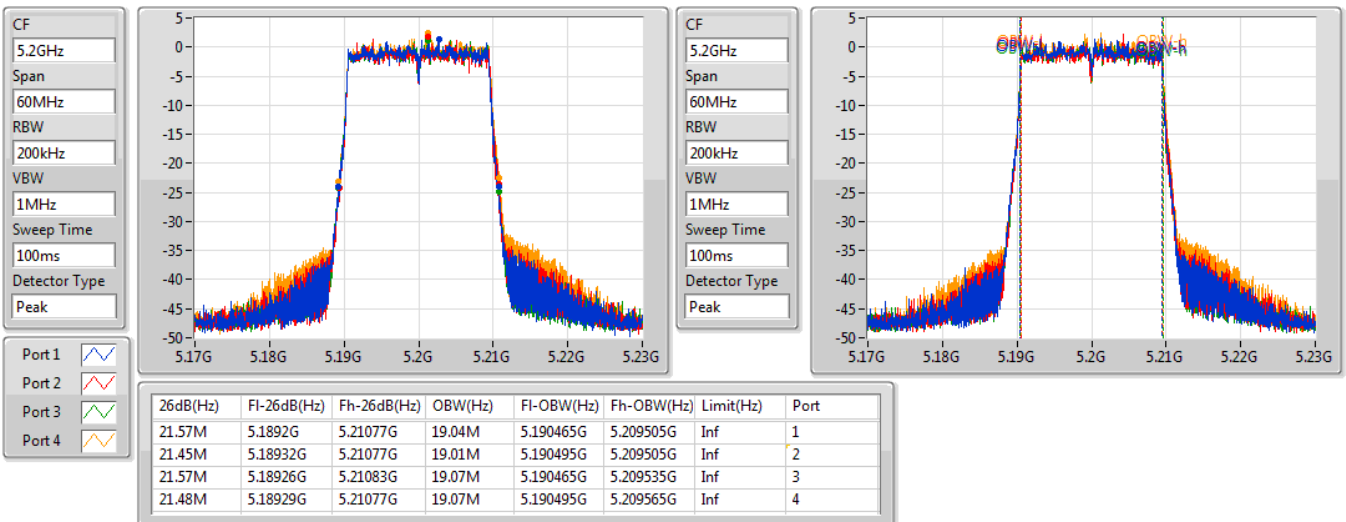
21/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5200MHz

21/07/2020

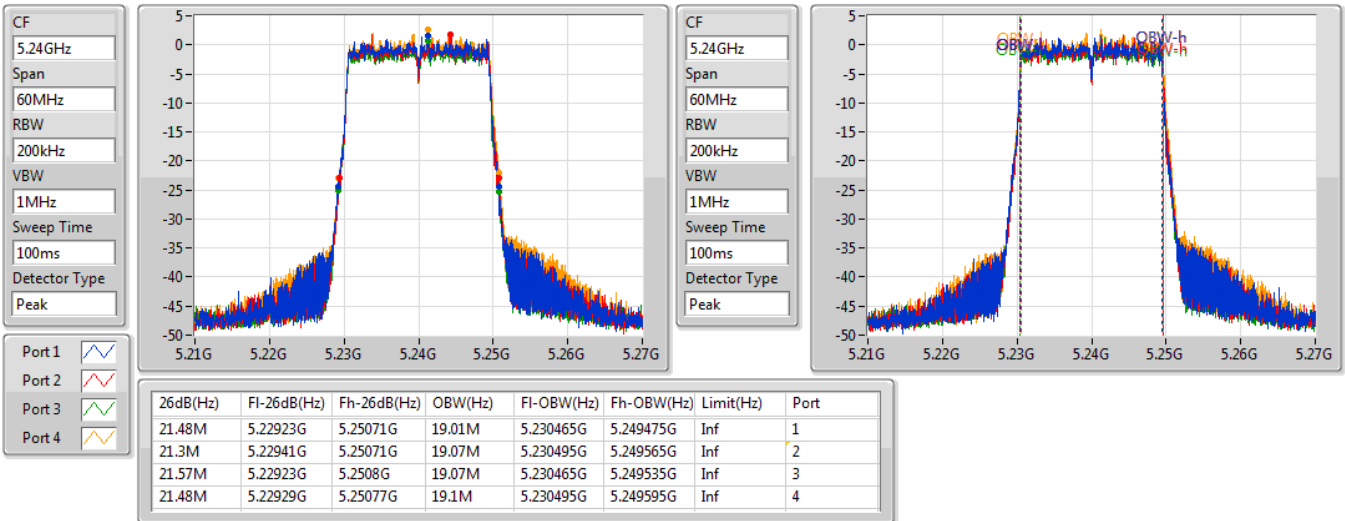


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5240MHz

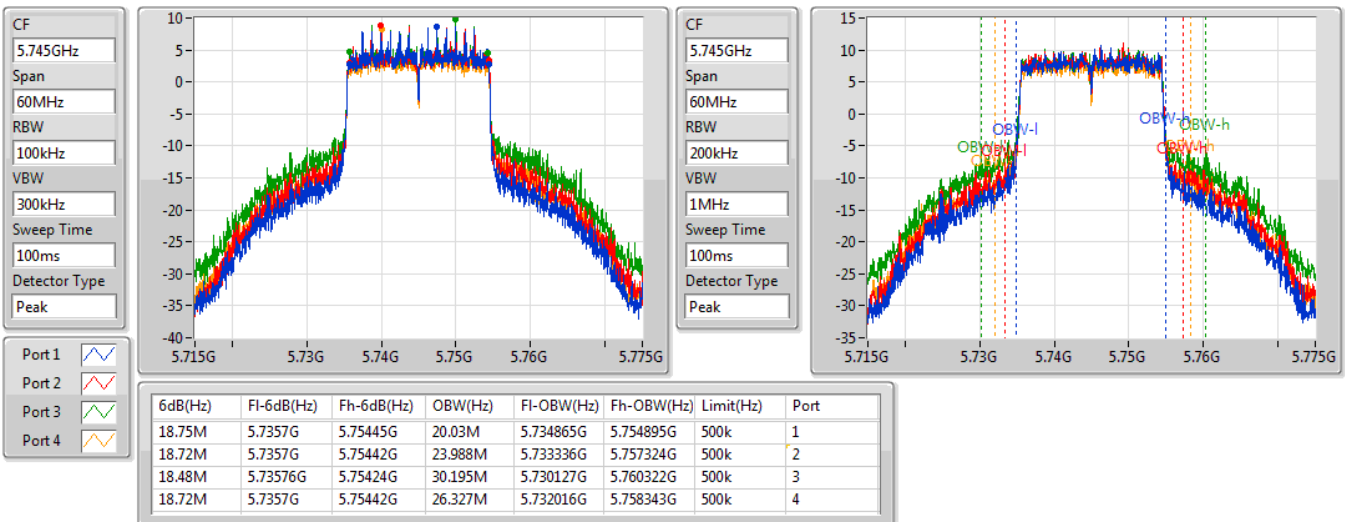
21/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5745MHz

10/07/2020

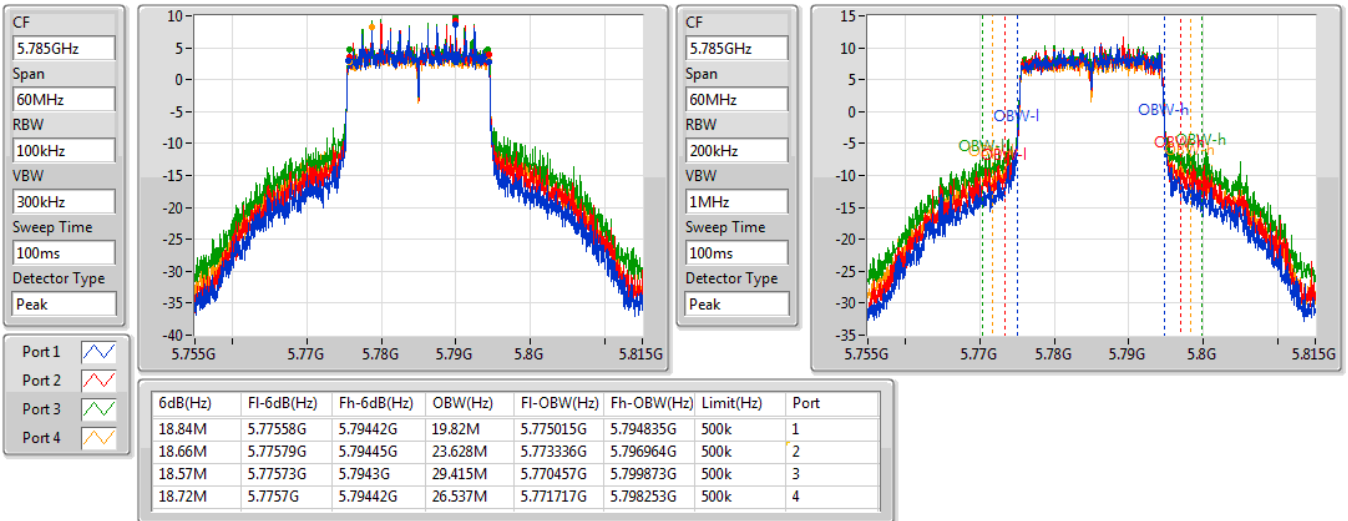


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5785MHz

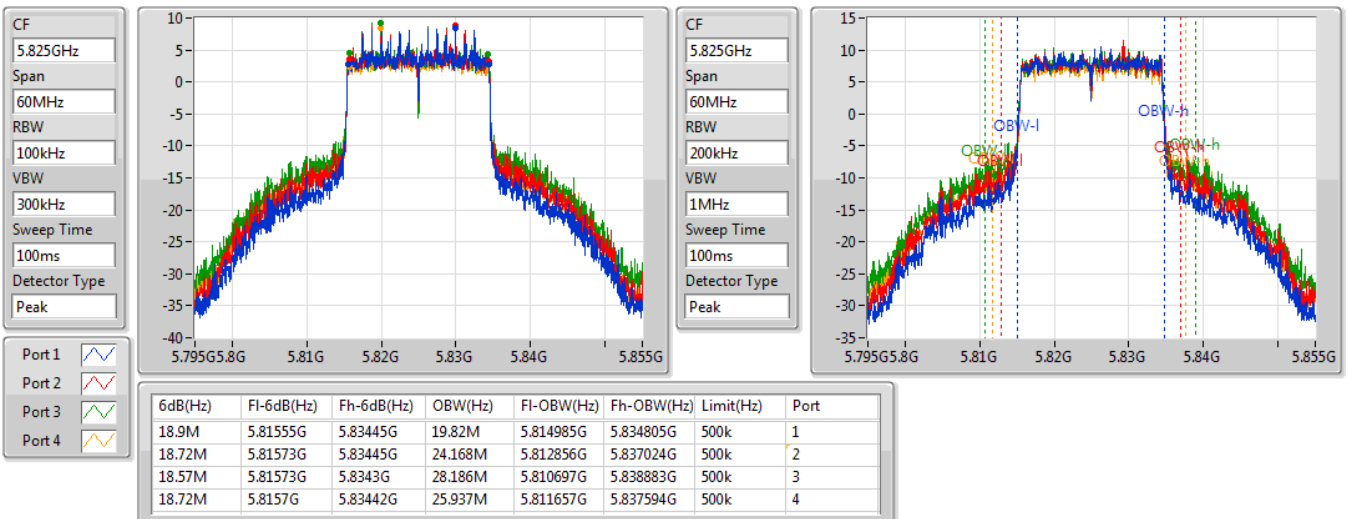
10/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5825MHz

10/07/2020

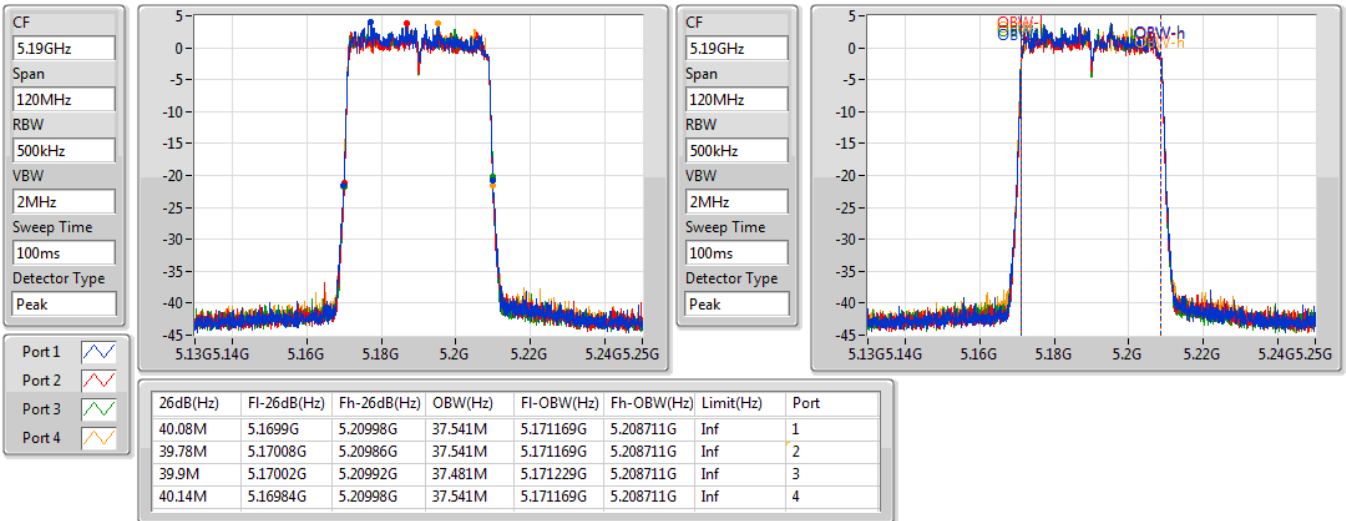


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5190MHz

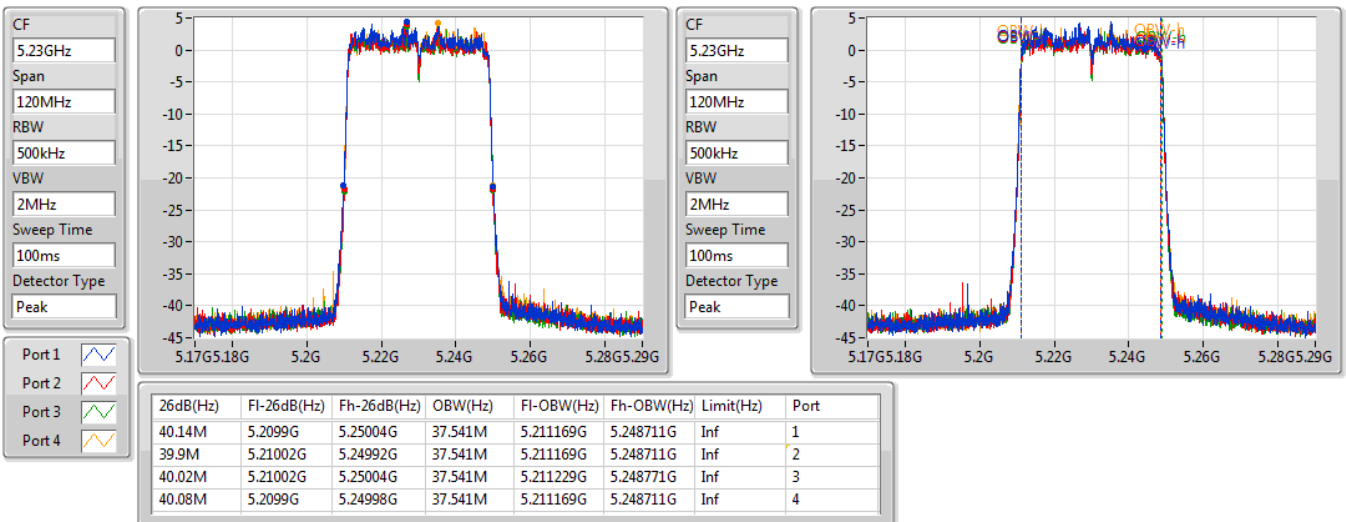
21/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5230MHz

21/07/2020

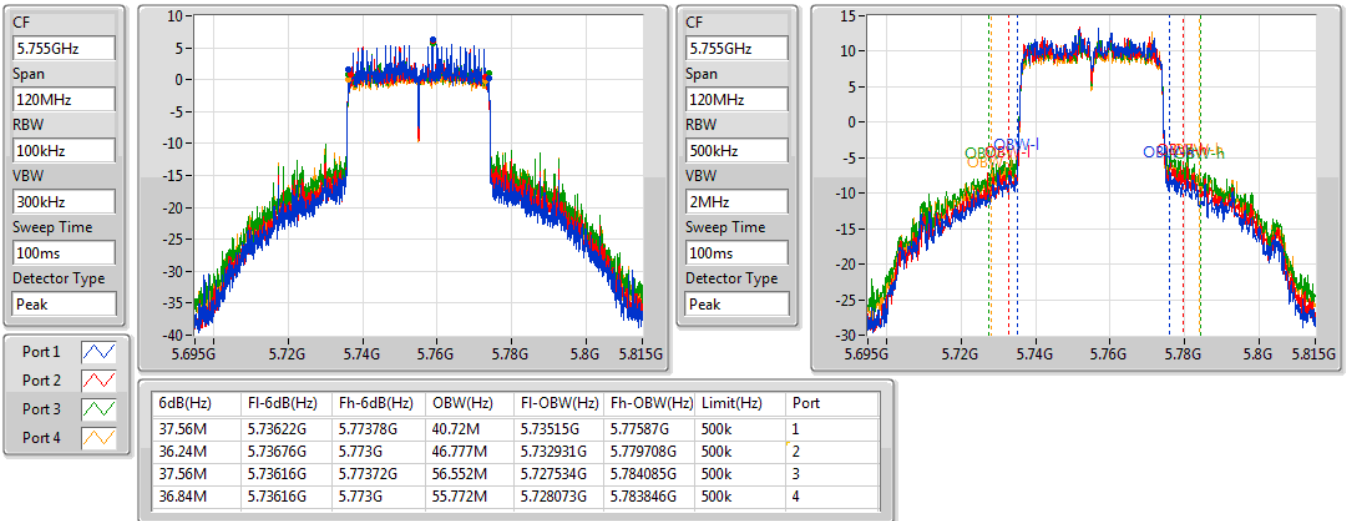


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5755MHz

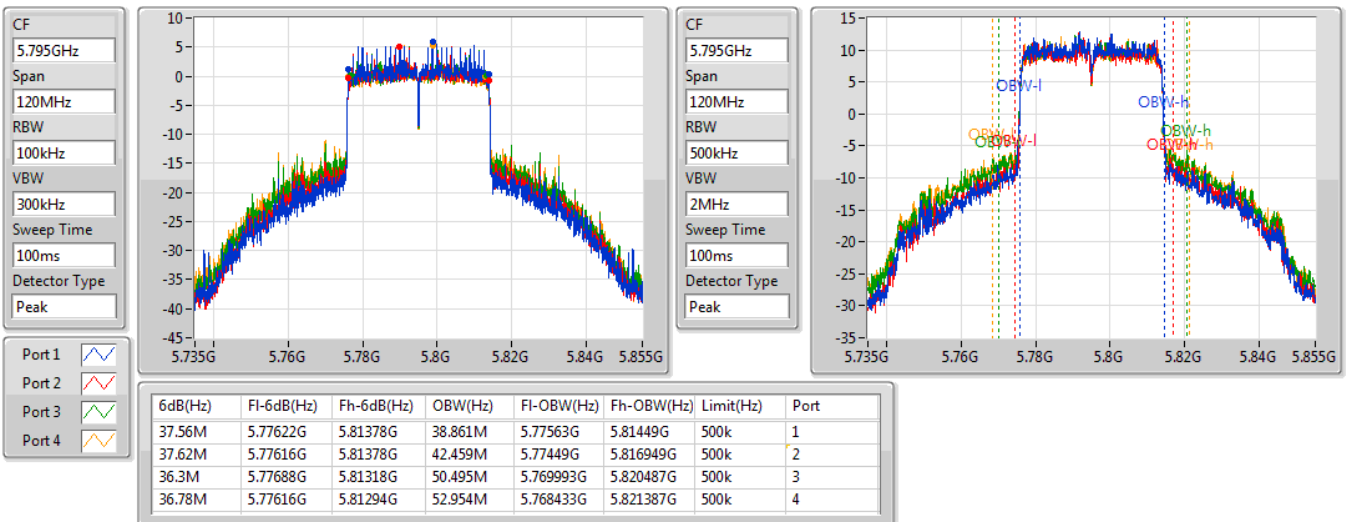
10/07/2020



802.11ax HEW40_Nss1,(MCS0)_4TX

EBW
5795MHz

10/07/2020

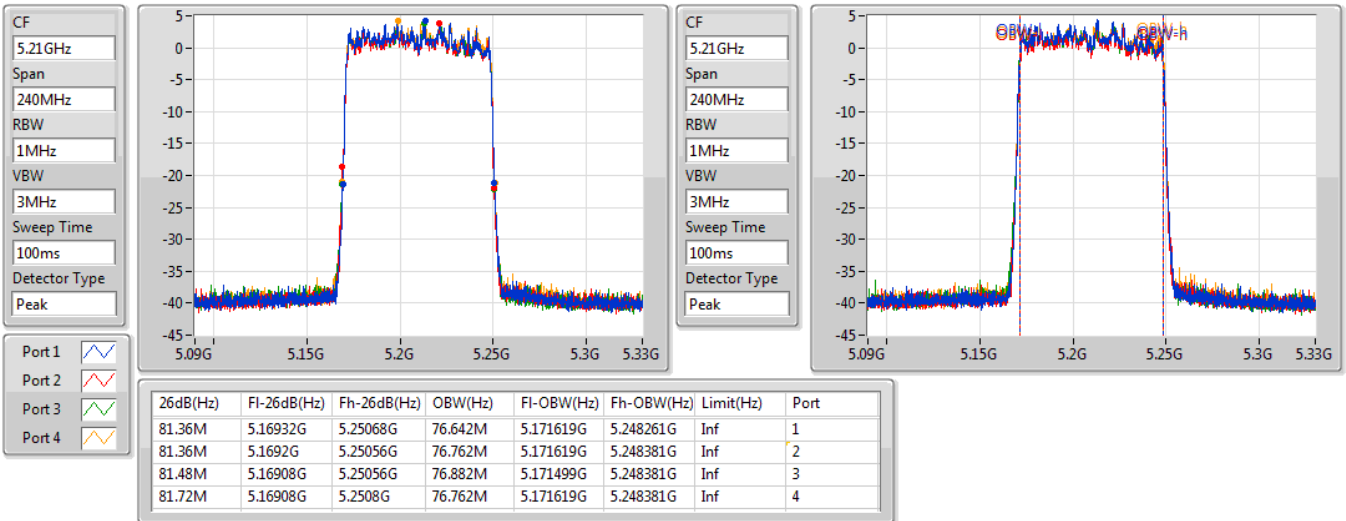


For EUT 2 / Radio 1 Band 1, Band 4 / External Ant.2_Non-Beamforming Mode

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5210MHz

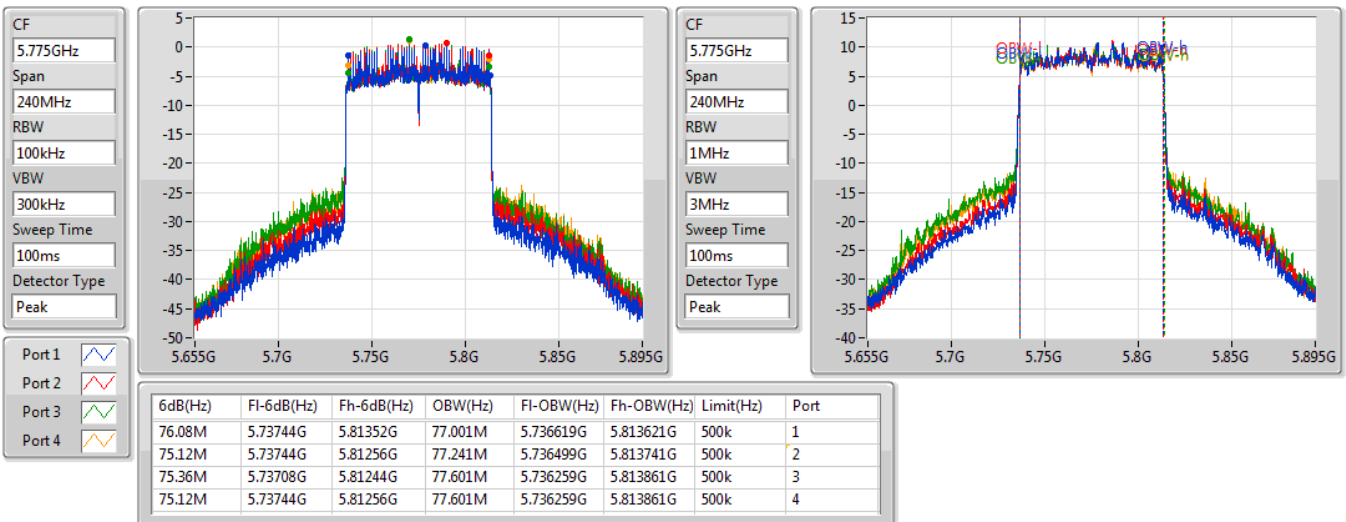
21/07/2020



802.11ax HEW80_Nss1,(MCS0)_4TX

EBW
5775MHz

10/07/2020



**For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.39M	16.822M	16M8D1D	21.06M	16.672M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.57M	19.16M	19M2D1D	21.27M	19.01M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.14M	37.541M	37M5D1D	39.84M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.72M	76.762M	76M8D1D	81.24M	76.762M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.45M	16.822M	16M8D1D	15.593M	13.346M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.63M	19.07M	19M1D1D	15.558M	14.5M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.601M	37M6D1D	34.913M	33.583M
802.11ax HEW80_Nss1,(MCS0)_4TX	81.72M	76.882M	76M9D1D	75.485M	72.814M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.15M	4.378M	4M38D1D	3.15M	4.243M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.56M	4.753M	4M75D1D	4.44M	4.663M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.765M	4.108M	4M11D1D	3.63M	4.093M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.855M	4.693M	4M69D1D	3.6M	4.138M

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;

**For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode
Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.06M	16.762M	21.39M	16.792M	21.36M	16.762M	21.24M	16.672M
5300MHz	Pass	Inf	21.18M	16.732M	21.3M	16.792M	21.36M	16.762M	21.15M	16.672M
5320MHz	Pass	Inf	21.15M	16.732M	21.33M	16.822M	21.36M	16.762M	21.33M	16.672M
5500MHz	Pass	Inf	21.21M	16.702M	21.45M	16.792M	21.3M	16.762M	21.33M	16.672M
5580MHz	Pass	Inf	21.24M	16.732M	21.21M	16.822M	21.27M	16.762M	21.27M	16.642M
5700MHz	Pass	Inf	21.21M	16.732M	21.27M	16.792M	21.3M	16.762M	21.33M	16.702M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.593M	13.346M	15.645M	13.398M	15.733M	13.416M	15.61M	13.346M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	4.318M	3.15M	4.378M	3.15M	4.273M	3.15M	4.243M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.48M	19.01M	21.36M	19.04M	21.51M	19.07M	21.42M	19.04M
5300MHz	Pass	Inf	21.39M	19.01M	21.27M	19.04M	21.42M	19.07M	21.54M	19.16M
5320MHz	Pass	Inf	21.45M	19.01M	21.45M	19.04M	21.57M	19.07M	21.57M	19.07M
5500MHz	Pass	Inf	21.39M	19.01M	21.45M	19.01M	21.48M	19.07M	21.54M	19.07M
5580MHz	Pass	Inf	21.42M	19.01M	21.42M	19.01M	21.63M	19.07M	21.6M	19.07M
5700MHz	Pass	Inf	21.3M	19.01M	21.36M	19.04M	21.51M	19.07M	21.51M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.768M	14.518M	15.698M	14.5M	15.75M	14.535M	15.558M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.47M	4.663M	4.485M	4.723M	4.44M	4.723M	4.56M	4.753M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.14M	37.541M	39.84M	37.481M	39.96M	37.481M	40.08M	37.541M
5310MHz	Pass	Inf	40.08M	37.541M	39.84M	37.541M	40.02M	37.541M	39.9M	37.541M
5510MHz	Pass	Inf	40.14M	37.481M	39.84M	37.541M	39.96M	37.481M	40.02M	37.541M
5550MHz	Pass	Inf	40.08M	37.481M	39.84M	37.481M	39.96M	37.541M	40.02M	37.541M
5670MHz	Pass	Inf	40.2M	37.541M	39.9M	37.601M	40.02M	37.541M	40.02M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.063M	33.621M	34.913M	33.583M	34.95M	33.658M	35.138M	33.733M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.765M	4.108M	3.735M	4.093M	3.735M	4.093M	3.63M	4.108M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	76.762M	81.24M	76.762M	81.48M	76.762M	81.72M	76.762M
5530MHz	Pass	Inf	81.36M	76.762M	81.36M	76.762M	81.48M	76.762M	81.72M	76.642M
5610MHz	Pass	Inf	81.24M	76.762M	81.36M	76.882M	81.24M	76.882M	81.72M	76.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.485M	72.814M	75.563M	72.814M	75.873M	72.814M	75.873M	72.814M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.675M	4.153M	3.765M	4.138M	3.6M	4.693M	3.855M	4.273M

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

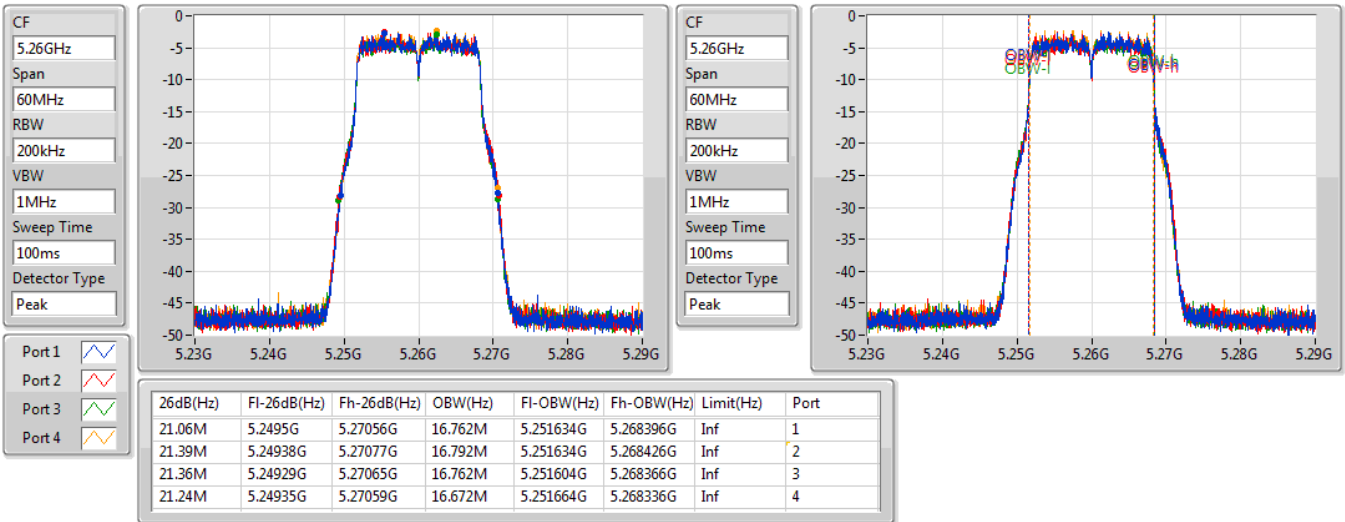
Port X-OBW = Port X 99% occupied bandwidth;

For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5260MHz

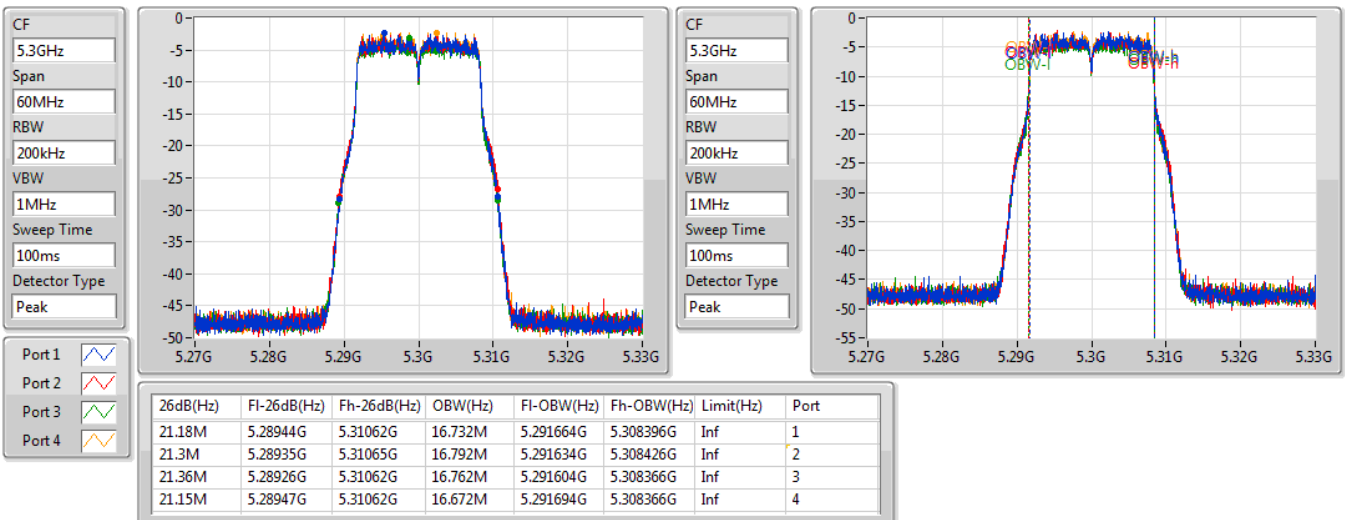
15/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5300MHz

15/07/2020

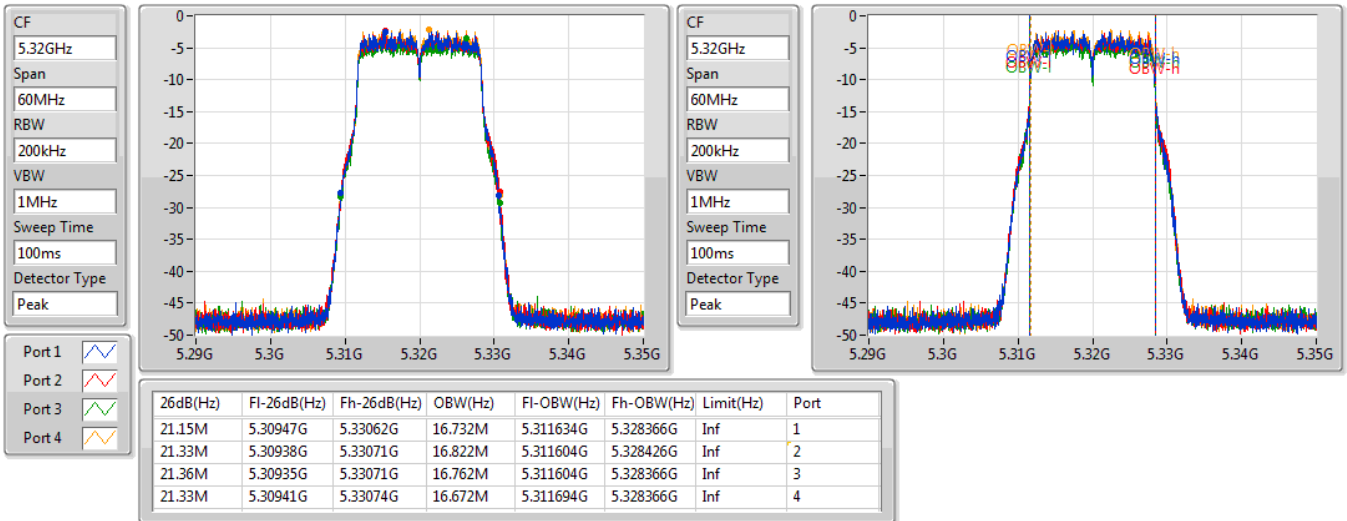


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5320MHz

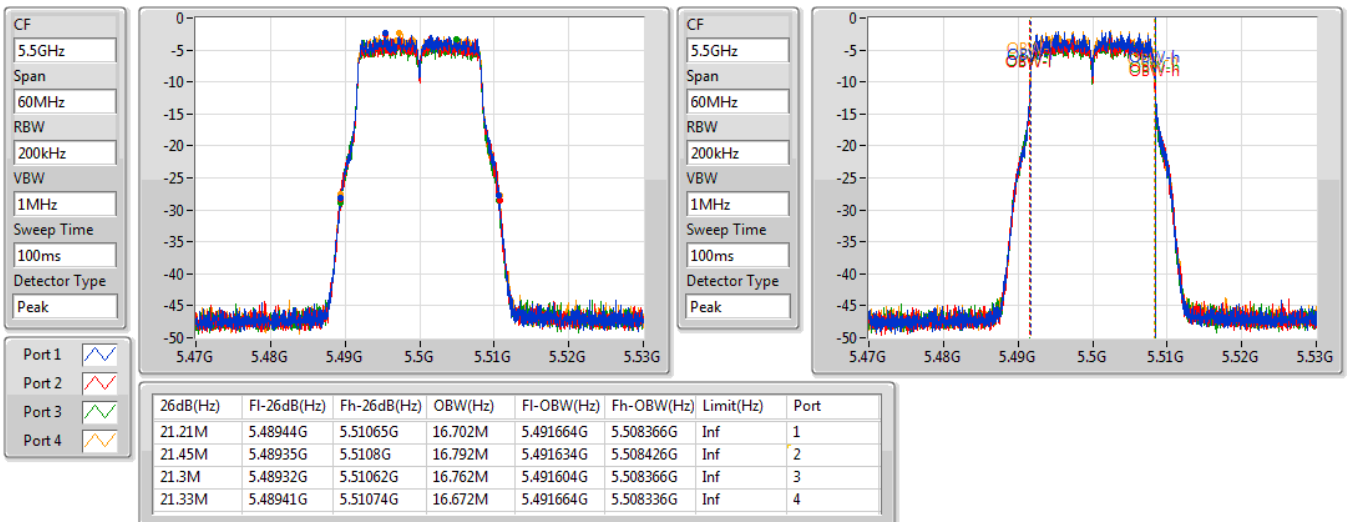
15/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5500MHz

15/07/2020

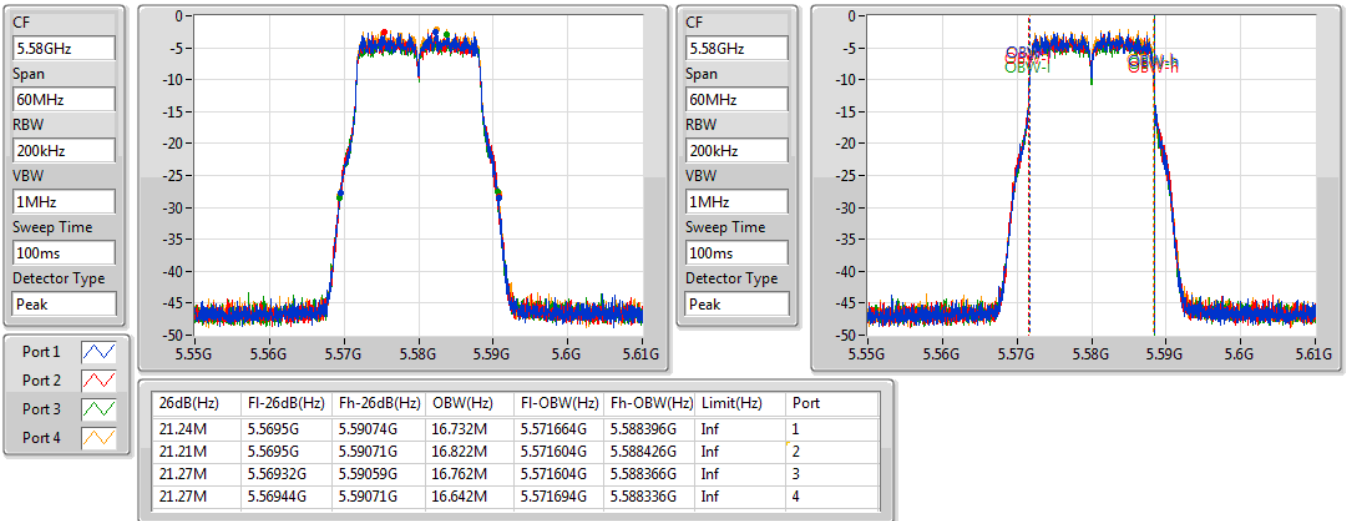


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW
5580MHz

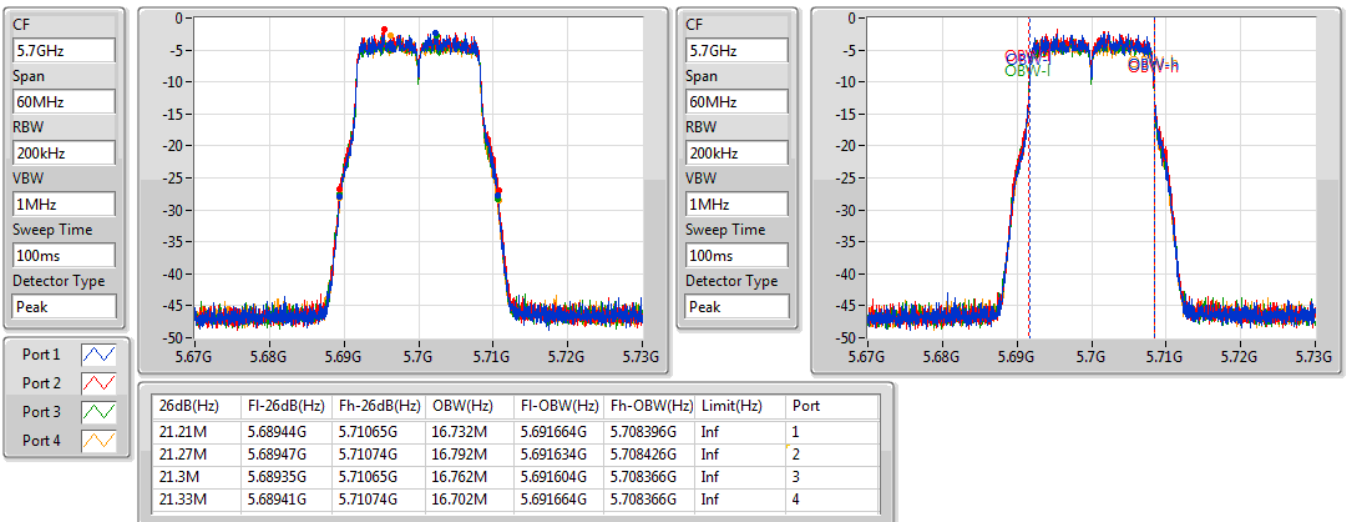
15/07/2020



802.11a_Nss1,(6Mbps)_4TX

EBW
5700MHz

15/07/2020



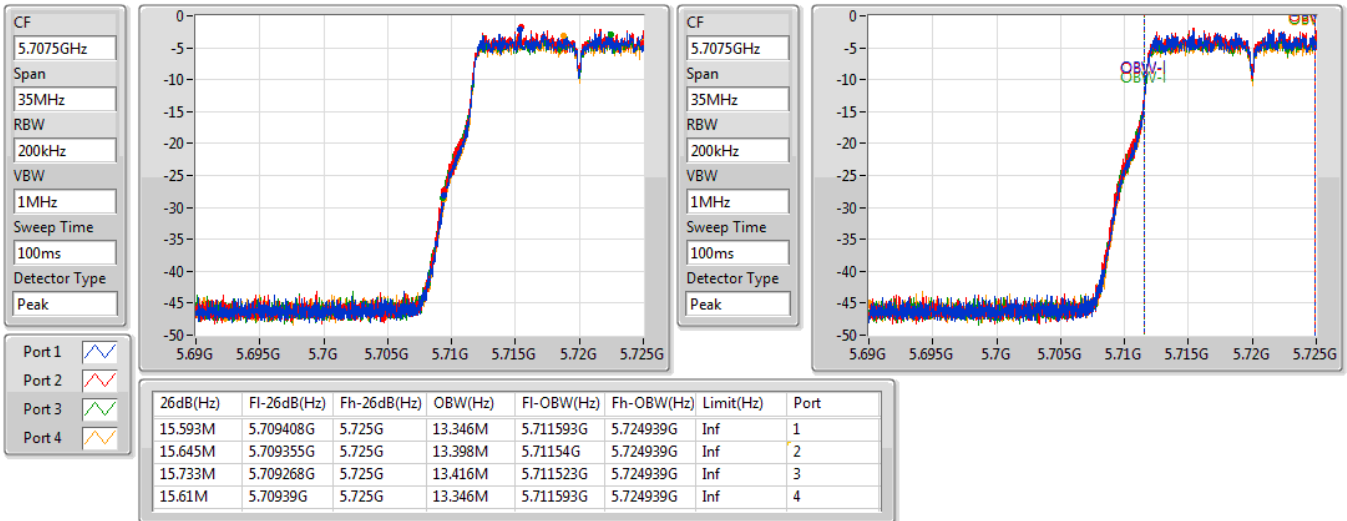
For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

15/07/2020

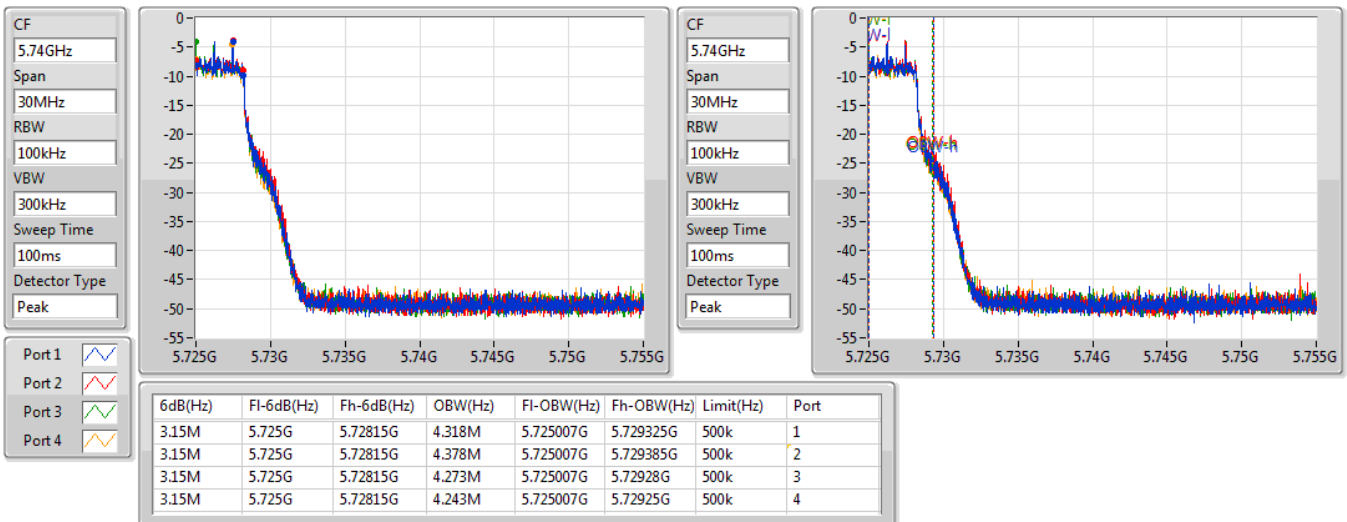


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/07/2020

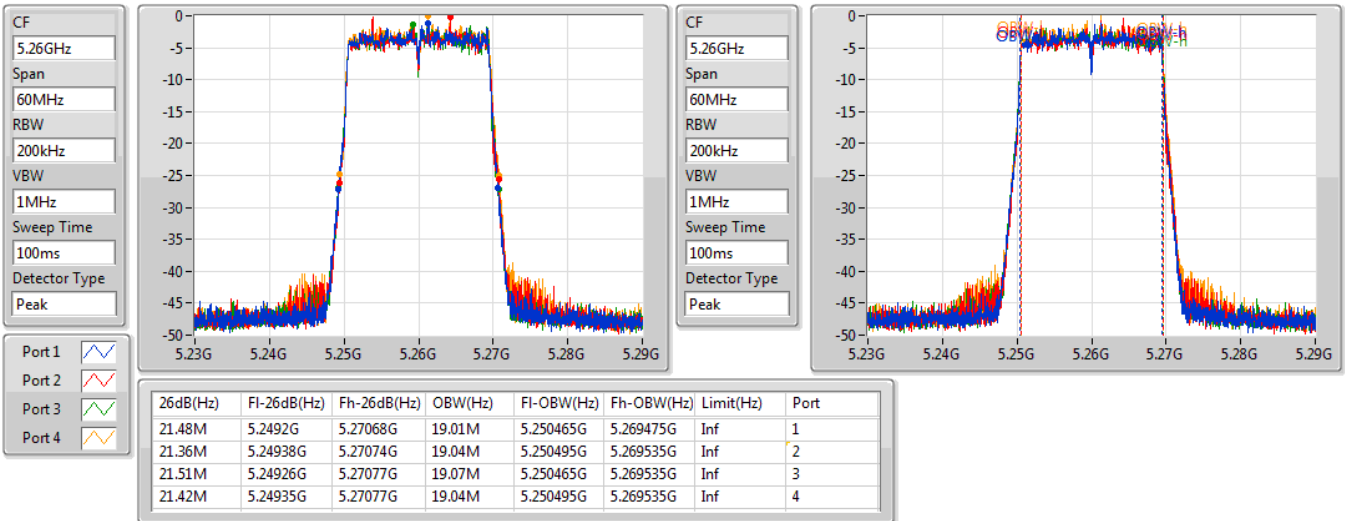


For EUT 2 / Radio 1 Band 2 ~ Band 3 / External Ant.2_Non-Beamforming Mode

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5260MHz

15/07/2020



802.11ax HEW20_Nss1,(MCS0)_4TX

EBW
5300MHz

15/07/2020

