



RADIO TEST REPORT

FCC ID : QXO-AP5022
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5022FX
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 17, 2026, and testing was started from Jan. 17, 2026 and completed on Jul. 17, 2026. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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History of this test report

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

Page Number : 3 of 59
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Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Output Power	PASS	-
3.3	15.407(a)	Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.

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



1 General Description

1.1 Information

1.1.1 RF General Information

For Radio 1:

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5150-5250	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5150-5250	ac (VHT80), ax (HEW80), be (EHT80)	5210	42 [1]
5250-5350		5290	58 [1]

For Radio 2 and Scanning Radio 4:

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	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), be (EHT40)	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), be (EHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160), be (EHT160)	5250	50 [1]
5470-5725		5570	114 [1]

**For Radio 1:**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	1, 2, 4TX
	802.11 n HT20-BF, 802.11 ac VHT20-BF, 802.11 ax HEW20-BF, 802.11 be EHT20-BF	20	2, 4TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	1, 2, 4TX
	802.11 n HT40-BF, 802.11 ac VHT40-BF, 802.11 ax HEW40-BF, 802.11 be EHT40-BF	40	2, 4TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	1, 2, 4TX
	802.11 ac VHT80-BF, 802.11 ax HEW80-BF, 802.11 be EHT80-BF	80	2, 4TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	1, 2, 4TX
	802.11 n HT20-BF, 802.11 ac VHT20-BF, 802.11 ax HEW20-BF, 802.11 be EHT20-BF	20	2, 4TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	1, 2, 4TX
	802.11 n HT40-BF, 802.11 ac VHT40-BF, 802.11 ax HEW40-BF, 802.11 be EHT40	40	2, 4TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	1, 2, 4TX
	802.11 ac VHT80-BF, 802.11 ax HEW80-BF, 802.11 be EHT80-BF	80	2, 4TX

**For Radio 2:**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	1, 2, 4TX
	802.11 n HT20-BF, 802.11 ac VHT20-BF, 802.11 ax HEW20-BF, 802.11 be EHT20-BF	20	2, 4TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	1, 2, 4TX
	802.11 n HT40-BF, 802.11 ac VHT40-BF, 802.11 ax HEW40-BF, 802.11 be EHT40-BF	40	2, 4TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	1, 2, 4TX
	802.11 ac VHT80-BF, 802.11 ax HEW80-BF, 802.11 be EHT80-BF	80	2, 4TX
5.15-5.35GHz	802.11 ac VHT160, 802.11 ax HEW160, 802.11 be EHT160	160	1, 2, 4TX
	802.11 ac VHT160-BF, 802.11 ax HEW160-BF, 802.11 be EHT160-BF	160	2, 4TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	1, 2, 4TX
	802.11 n HT20-BF, 802.11 ac VHT20-BF, 802.11 ax HEW20-BF, 802.11 be EHT20-BF	20	2, 4TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	1, 2, 4TX
	802.11 n HT40-BF, 802.11 ac VHT40-BF, 802.11 ax HEW40-BF, 802.11 be EHT40	40	2, 4TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	1, 2, 4TX
	802.11 ac VHT80-BF, 802.11 ax HEW80-BF, 802.11 be EHT80-BF	80	2, 4TX



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	1, 2, 4TX
	802.11 n HT20-BF, 802.11 ac VHT20-BF, 802.11 ax HEW20-BF, 802.11 be EHT20-BF	20	2, 4TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	1, 2, 4TX
	802.11 n HT40-BF, 802.11 ac VHT40-BF, 802.11 ax HEW40-BF, 802.11 be EHT40	40	2, 4TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	1, 2, 4TX
	802.11 ac VHT80-BF, 802.11 ax HEW80-BF, 802.11 be EHT80-BF	80	2, 4TX
	802.11 ac VHT160, 802.11 ax HEW160, 802.11 be EHT160	160	1, 2, 4TX
	802.11 ac VHT160-BF, 802.11 ax HEW160-BF, 802.11 be EHT160-BF	160	2, 4TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	1, 2, 4TX
	802.11 n HT20-BF, 802.11 ac VHT20-BF, 802.11 ax HEW20-BF, 802.11 be EHT20-BF	20	2, 4TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	1, 2, 4TX
	802.11 n HT40-BF, 802.11 ac VHT40-BF, 802.11 ax HEW40-BF, 802.11 be EHT40	40	2, 4TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	1, 2, 4TX
	802.11 ac VHT80-BF, 802.11 ax HEW80-BF, 802.11 be EHT80-BF	80	2, 4TX

**For Scanning Radio 4:**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	2TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	2TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	2TX
5.15-5.35GHz	802.11 ac VHT160, 802.11 ax HEW160, 802.11 be EHT160	160	2TX
5.25-5.35GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	2TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	2TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	2TX
5.47-5.725GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	2TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	2TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	2TX
	802.11 ac VHT160, 802.11 ax HEW160, 802.11 be EHT160	160	2TX

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11 a, 802.11 n HT20, 802.11 ac VHT20, 802.11 ax HEW20, 802.11 be EHT20	20	2TX
	802.11 n HT40, 802.11 ac VHT40, 802.11 ax HEW40, 802.11 be EHT40	40	2TX
	802.11 ac VHT80, 802.11 ax HEW80, 802.11 be EHT80	80	2TX

**MRU (puncturing)
For Multi_RU/Puncturing:**

RU-tone	Configuration	Bandwidth (MHz)				5GHz Test CH					
						UNII-1	UNII-2A	UNII-2C		UNII2C/3	UNII-3
						CH42	CH58	CH106	CH122	CH138	CH155
484+242	1		242		484	--	V	--	V	V	V
	2	242			484	V	V	V	V	V	V
	3		484		242	V	V	V	V	V	V
	4		484	242		V	--	V	V	--	V

RU-tone	Configuration	Bandwidth (MHz)				5GHz Test CH	
						UNII-1/2A	UNII-2C
						CH50	CH114
996+484	1		484		996	--	V
	2	484			996	V	V
	3		996		484	V	V
	4		996	484		V	--
996+484+242	1		242	484	996	--	V
	2	242		484	996	V	V
	3		484		996	V	V
	4		484	242	996	V	V
	5		996		242	V	V
	6		996	242	484	V	V
	7		996	484	242	V	V
	8		996	484	242	V	--

**Note:**

- ♦ 11a, HT20, HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80, VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80, HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40, EHT80, EHT160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Worst case of MRU (puncturing) evaluation procedure**For Radio 1 and Radio 2**

- | | |
|----|--|
| 1. | Complete test Full RU BE & PSD. |
| 2. | Measure the PSD of each MRU (puncturing) by conducted method and it is less than the Full RU conducted PSD. |
| 3. | Measure the Band edge emission of each MRU (puncturing) by conducted method and find out the MRU (puncturing) worst case configuration. |
| 4. | Follow step 3 to find the worst MRU (puncturing) configuration and perform radiated BE/RSE testing. |
| 5. | Confirm whether the worst MRU (puncturing) configuration setting in step 3 and step 4 is the same. If there is a channel where the setting drops due to the test in step 4, the PSD of MRU (puncturing) needs to be reduced. |

**1.1.3 Antenna Information**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Radio	Remark
1	1/2/3/4	Extreme Networks	AI-TP05360	MIMO-Directional Panel	SMA ST. Plug	2.4G & 5G Low & 6G High + 5G Full & 5G High + 6G Full & 6G Low	Radio 1+Radio 2 +Radio 3	External Ant.
2	1/2/3/4	Extreme Networks	AI-TQ08055	Sector	RP- SMA	2.4G & 5G Low & 6G High + 5G Full & 5G High + 6G Full & 6G Low	Radio 1+Radio 2 +Radio 3	External Ant.
3	1/2/3/4	Extreme Networks	AIO-HQ17020	MIMO-Directional Panel	SMA Female	5G Low & 6G High + 5G Full & 5G High + 6G Full & 6G Low	Radio 1+Radio 2 +Radio 3	External Ant.
4	1/2/3/4	Extreme Networks	AIO-DQ15021-RPS MA	MIMO-Directional Panel	Reverse SMA	2.4G & 5G Low + 5G Full & 5G High	Radio 1+Radio 2	External Ant.
5	1	WNC	95XPAM15.G84	PIFA	I-Pex	6G Full & 6G Low	Radio 3	Internal Ant.
6	2	WNC	95XPAM15.G85	PIFA	I-Pex	6G Full & 6G Low	Radio 3	Internal Ant.
7	3	WNC	95XPAM15.G87	Alford loop	I-Pex	6G Full & 6G Low	Radio 3	Internal Ant.
8	4	WNC	95XPAM15.G88	Alford loop	I-Pex	6G Full & 6G Low	Radio 3	Internal Ant.
9	1	WNC	95XPAM15.G56	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	Internal Ant.
10	2	WNC	95XPAM15.G57	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	Internal Ant.
11	1	WNC	95XPAM15.G53	PIFA	I-Pex	BT+802.15.4	Radio 5	Internal Ant.
12	2	WNC	95XPAM15.G54	PIFA	I-Pex	BT+802.15.4	Radio 5	Internal Ant.
13	3	WNC	95XPAM15.GAM	Alford loop	I-Pex	BT+802.15.4	Radio 5	Internal Ant.
14	4	Extreme Networks	AI-TS06360	Dipole	RP-SMA	BT+802.15.4	Radio 5	External Ant.
15	1	WNC	95XPAM15.G81	PIFA	I-Pex	UWB	Radio 6	Internal Ant.
16	2	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	Internal Ant.
17	3	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	Internal Ant.
18	4	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	Internal Ant.
19	1/2/3/4	Extreme Networks	AIO-HM25007	Spherical lens	N Male	5G Full & 6G Full	Radio 2+Radio 3	External Ant.



Ant.	POL	Port	Antenna peak gain (dBi)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant 1 Radio 1 2.4G 5G Low 6G High	-	1	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	2	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	3	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	4	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	5	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
Ant 1 Radio 2 5G Full 5G High	-	1	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	2	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	3	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	4	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	5	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
Ant 1 Radio 3 6G Full 6G Low	-	1	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	2	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	3	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	4	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	5	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
Ant 2 Radio 1 2.4G 5G Low 6G High	V-POL	1	7	6	6	-	-	-	-	6	6	-	-	-
	H-POL	2	7	6	6	-	-	-	-	6	6	-	-	-
	V-POL	3	7	6	6	-	-	-	-	6	6	-	-	-
	H-POL	4	7	6	6	-	-	-	-	6	6	-	-	-
	V-POL	1	-	6	6	6	6	-	-	-	-	-	-	-
Ant 2 Radio 2 5G Full 5G High	H-POL	2	-	6	6	6	6	-	-	-	-	-	-	-
	V-POL	3	-	6	6	6	6	-	-	-	-	-	-	-
	H-POL	4	-	6	6	6	6	-	-	-	-	-	-	-
	V-POL	1	-	-	-	-	-	6	6	6	6	-	-	-
	H-POL	2	-	-	-	-	-	6	6	6	6	-	-	-
Ant 2 Radio 3 6G Full 6G Low	V-POL	3	-	-	-	-	-	6	6	6	6	-	-	-
	H-POL	4	-	-	-	-	-	6	6	6	6	-	-	-
	- 45 POL	1	-	17	17	-	-	-	-	17	17	-	-	-
	+ 45 POL	2	-	17	17	-	-	-	-	17	17	-	-	-
	+ 45 POL	3	-	17	17	-	-	-	-	17	17	-	-	-
Ant 3 Radio 1 5G Low 6G High	- 45 POL	4	-	17	17	-	-	-	-	17	17	-	-	-
	- 45 POL	1	-	17	17	17	17	-	-	-	-	-	-	-
	+ 45 POL	2	-	17	17	17	17	-	-	-	-	-	-	-
	+ 45 POL	3	-	17	17	17	17	-	-	-	-	-	-	-
	- 45 POL	4	-	17	17	17	17	-	-	-	-	-	-	-
Ant 3 Radio 2 5G Full 5G High	- 45 POL	1	-	-	-	-	-	17	17	17	17	-	-	-
	+ 45 POL	2	-	-	-	-	-	17	17	17	17	-	-	-
	+ 45 POL	3	-	-	-	-	-	17	17	17	17	-	-	-
	- 45 POL	4	-	-	-	-	-	17	17	17	17	-	-	-
	- 45 POL	1	-	-	-	-	-	17	17	17	17	-	-	-
Ant 3 Radio 3 6G Full 6G Low	+ 45 POL	2	-	-	-	-	-	17	17	17	17	-	-	-
	+ 45 POL	3	-	-	-	-	-	17	17	17	17	-	-	-
	- 45 POL	4	-	-	-	-	-	17	17	17	17	-	-	-
	- 45 POL	1	-	-	-	-	-	17	17	17	17	-	-	-
	- 45 POL	2	-	-	-	-	-	17	17	17	17	-	-	-



Ant.	POL	Port	Antenna peak gain (dBi)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant 4 Radio 1 2.4G 5G Low	V-POL	1	11.1	15	15	-	-	-	-	-	-	-	-	-
	H-POL	2	11.1	15	15	-	-	-	-	-	-	-	-	-
	V-POL	3	11.1	15	15	-	-	-	-	-	-	-	-	-
	H-POL	4	11.1	15	15	-	-	-	-	-	-	-	-	-
Ant 4 Radio 2 5G Full 5G High	V-POL	1	-	15	15	15	15	-	-	-	-	-	-	-
	H-POL	2	-	15	15	15	15	-	-	-	-	-	-	-
	V-POL	3	-	15	15	15	15	-	-	-	-	-	-	-
	H-POL	4	-	15	15	15	15	-	-	-	-	-	-	-
Ant 5	-	1	-	-	-	-	-	5.8	4.39	4.54	5.28	-	-	-
Ant 6	-	2	-	-	-	-	-	4.31	5.13	4.62	4.43	-	-	-
Ant 7	-	3	-	-	-	-	-	5.41	5.06	3.5	4.6	-	-	-
Ant 8	-	4	-	-	-	-	-	4.15	3.89	2.42	3.55	-	-	-
Ant 9	-	1	2.42	4.11	4.34	5.46	3.49	3.46	4.88	5.13	4.76	-	-	-
Ant 10	-	2	2.86	3.32	3.52	3.7	4.34	5.68	4.13	4.75	4.59	-	-	-
Ant 11	-	1	-	-	-	-	-	-	-	-	-	3.6	3.6	-
Ant 12	-	2	-	-	-	-	-	-	-	-	-	5.7	5.7	-
Ant 13	-	3	-	-	-	-	-	-	-	-	-	2.7	2.7	-
Ant 14	-	4	-	-	-	-	-	-	-	-	-	3.04	3.04	-
Ant 15	-	1	-	-	-	-	-	-	-	-	-	-	-	4.7
Ant 16	-	2	-	-	-	-	-	-	-	-	-	-	-	5.4
Ant 17	-	3	-	-	-	-	-	-	-	-	-	-	-	4.8
Ant 18	-	4	-	-	-	-	-	-	-	-	-	-	-	4.4
Ant 19 Radio 2 5G Full	+ 45 POL	1	-	22.3	22.3	22.3	22.3	-	-	-	-	-	-	-
	- 45 POL	2	-	22.3	22.3	22.3	22.3	-	-	-	-	-	-	-
	+ 45 POL	3	-	22.3	22.3	22.3	22.3	-	-	-	-	-	-	-
	- 45 POL	4	-	22.3	22.3	22.3	22.3	-	-	-	-	-	-	-
Ant 19 Radio 3 6G Full	+ 45 POL	1	-	-	-	-	-	22.3	22.3	22.3	22.3	-	-	-
	- 45 POL	2	-	-	-	-	-	22.3	22.3	22.3	22.3	-	-	-
	+ 45 POL	3	-	-	-	-	-	22.3	22.3	22.3	22.3	-	-	-
	- 45 POL	4	-	-	-	-	-	22.3	22.3	22.3	22.3	-	-	-



RADIO TEST REPORT

Report No. : FR5O0964-13AA

Ant.	POL	Port	Antenna cable loss (dB)																	
			Main PCB to External Antenna Connector Loss					Radio 1: Main PCB to External Antenna Connector Loss Radio 3: Main PCB to Switch Board Loss				Radio 3: Switch Board to External Antenna Connector Loss				Antenna 3 Cable Loss		Main PCB to External Antenna Connector Loss		UWB
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	UNII-5	UNII-6	UNII-7	UNII-8	5G Ant.	6G Ant.	BT	802.1 5.4	UWB
Ant 1 Radio 1 2.4G 5G Low 6G High	-	1	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	2	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	3	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	4	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	5	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
Ant 1 Radio 2 5G Full 5G High	-	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	5	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 1 Radio 3 6G Full 6G Low	-	1	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	2	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	3	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	4	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	5	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
Ant 2 Radio 1 2.4G 5G Low 6G High	V-POL	1	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	H-POL	2	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	V-POL	3	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	H-POL	4	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
Ant 2 Radio 2 5G Full 5G High	V-POL	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	V-POL	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 2 Radio 3 6G Full 6G Low	V-POL	1	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	H-POL	2	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	V-POL	3	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	H-POL	4	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
Ant 3 Radio 1 5G Low 6G High	- 45 POL	1	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
	+ 45 POL	2	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
	+ 45 POL	3	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
	- 45 POL	4	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
Ant 3 Radio 2 5G Full 5G High	- 45 POL	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
	+ 45 POL	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
	+ 45 POL	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
	- 45 POL	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
Ant 3 Radio 3 6G Full 6G Low	- 45 POL	1	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-
	+ 45 POL	2	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-
	+ 45 POL	3	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-
	- 45 POL	4	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-



Ant.	POL	Port	Antenna cable loss (dB)																	
			Main PCB to External Antenna Connector Loss					Radio 1: Main PCB to External Antenna Connector Loss Radio 3: Main PCB to Switch Board Loss				Radio 3: Switch Board to External Antenna Connector Loss				Antenna 3 Cable Loss		Main PCB to External Antenna Connector Loss		UWB
								2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	UNII-5	UNII-6	UNII-7	UNII-8
Ant 4 Radio 1 2.4G 5G Low	V-POL	1	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	2	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	V-POL	3	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	4	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 4 Radio 2 5G Full 5G High	V-POL	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	V-POL	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 5	-	1	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 6	-	2	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 7	-	3	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 8	-	4	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 9	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 10	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 11	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 12	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 13	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 14	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09	1.09	-
Ant 15	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 16	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 17	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 18	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Ant.	POL	Port	Antenna cable loss (dB)																			
			Radio 3: Main PCB to Switch Board Loss				Radio 2 and Radio 3: Switch Board to External Antenna Connector Loss								Diplexer Board							
			UNII-5	UNII-6	UNII-7	UNII-8	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
Ant 19 Radio 2 5G Full	+ 45 POL	1	-	-	-	-	2.48	2.48	2.48	2.48	-	-	-	-	3.7	3.3	2.9	3.3	-	-	-	-
	- 45 POL	2	-	-	-	-	2.48	2.48	2.48	2.48	-	-	-	-	3.7	3.3	2.9	3.3	-	-	-	-
	+ 45 POL	3	-	-	-	-	2.48	2.48	2.48	2.48	-	-	-	-	3.7	3.3	2.9	3.3	-	-	-	-
	- 45 POL	4	-	-	-	-	2.48	2.48	2.48	2.48	-	-	-	-	3.7	3.3	2.9	3.3	-	-	-	-
Ant 19 Radio 3 6G Full	+ 45 POL	1	2.73	2.73	2.73	2.73	-	-	-	-	2.28	2.28	2.28	2.28	-	-	-	-	4	3.7	3.6	3.4
	- 45 POL	2	2.73	2.73	2.73	2.73	-	-	-	-	2.28	2.28	2.28	2.28	-	-	-	-	4	3.7	3.6	3.4
	+ 45 POL	3	2.73	2.73	2.73	2.73	-	-	-	-	2.28	2.28	2.28	2.28	-	-	-	-	4	3.7	3.6	3.4
	- 45 POL	4	2.73	2.73	2.73	2.73	-	-	-	-	2.28	2.28	2.28	2.28	-	-	-	-	4	3.7	3.6	3.4



Ant.	POL	Port	Antenna Net Gain (dB)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant 1 Radio 1 2.4G 5G Low 6G High	-	1	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	2	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	3	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	4	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
Ant 1 Radio 2 5G Full 5G High	-	5	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	1	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	2	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	3	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
Ant 1 Radio 3 6G Full 6G Low	-	4	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	5	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	1	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	2	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
Ant 2 Radio 1 2.4G 5G Low 6G High	-	3	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	4	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	5	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	1	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
Ant 2 Radio 2 5G Full 5G High	V-POL	1	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
	H-POL	2	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
	V-POL	3	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
	H-POL	4	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
Ant 2 Radio 3 6G Full 6G Low	V-POL	1	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
	H-POL	2	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
	V-POL	3	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
	H-POL	4	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
Ant 3 Radio 1 5G Low 6G High	V-POL	1	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
	H-POL	2	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
	V-POL	3	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
	H-POL	4	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
Ant 3 Radio 2 5G Full 5G High	- 45 POL	1	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
	+ 45 POL	2	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
	- 45 POL	3	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
	+ 45 POL	4	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
Ant 3 Radio 3 6G Full 6G Low	- 45 POL	1	-	14	14	14	14	-	-	-	-	-	-	-
	+ 45 POL	2	-	14	14	14	14	-	-	-	-	-	-	-
	- 45 POL	3	-	14	14	14	14	-	-	-	-	-	-	-
	+ 45 POL	4	-	14	14	14	14	-	-	-	-	-	-	-
Ant 3 Radio 3 6G Full 6G Low	- 45 POL	1	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-
	+ 45 POL	2	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-
	- 45 POL	3	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-
	+ 45 POL	4	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-



Ant.	POL	Port	Antenna Net Gain (dB)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant 4 Radio 1 2.4G 5G Low	V-POL	1	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
	H-POL	2	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
	V-POL	3	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
	H-POL	4	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
Ant 4 Radio 2 5G Full 5G High	V-POL	1	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
	H-POL	2	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
	V-POL	3	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
	H-POL	4	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
Ant 5	-	1	-	-	-	-	-	3.07	1.66	1.81	2.55	-	-	-
Ant 6	-	2	-	-	-	-	-	1.58	2.4	1.89	1.7	-	-	-
Ant 7	-	3	-	-	-	-	-	2.68	2.33	0.77	1.87	-	-	-
Ant 8	-	4	-	-	-	-	-	1.42	1.16	-0.31	0.82	-	-	-
Ant 9	-	1	2.42	4.11	4.34	5.46	3.49	3.46	4.88	5.13	4.76	-	-	-
Ant 10	-	2	2.86	3.32	3.52	3.7	4.34	5.68	4.13	4.75	4.59	-	-	-
Ant 11	-	1	-	-	-	-	-	-	-	-	-	3.6	3.6	-
Ant 12	-	2	-	-	-	-	-	-	-	-	-	5.7	5.7	-
Ant 13	-	3	-	-	-	-	-	-	-	-	-	2.7	2.7	-
Ant 14	-	4	-	-	-	-	-	-	-	-	-	1.95	1.95	-
Ant 15	-	1	-	-	-	-	-	-	-	-	-	-	-	4.7
Ant 16	-	2	-	-	-	-	-	-	-	-	-	-	-	5.4
Ant 17	-	3	-	-	-	-	-	-	-	-	-	-	-	4.8
Ant 18	-	4	-	-	-	-	-	-	-	-	-	-	-	4.4
Ant 19 Radio 2 5G Full	+ 45 POL	1	-	16.12	16.52	16.92	16.52	-	-	-	-	-	-	-
	- 45 POL	2	-	16.12	16.52	16.92	16.52	-	-	-	-	-	-	-
	+ 45 POL	3	-	16.12	16.52	16.92	16.52	-	-	-	-	-	-	-
	- 45 POL	4	-	16.12	16.52	16.92	16.52	-	-	-	-	-	-	-
Ant 19 Radio 3 6G Full	+ 45 POL	1	-	-	-	-	-	13.29	13.59	13.69	13.89	-	-	-
	- 45 POL	2	-	-	-	-	-	13.29	13.59	13.69	13.89	-	-	-
	+ 45 POL	3	-	-	-	-	-	13.29	13.59	13.69	13.89	-	-	-
	- 45 POL	4	-	-	-	-	-	13.29	13.59	13.69	13.89	-	-	-



Ant.	Items	Composite Gain (dBi) for 4TX								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
Ant 5~8 Radio 3 6G Full 6G Low	DG [1SS]	-	-	-	-	-	6.11	5.89	4.62	5.39
	DG [4SS]	-	-	-	-	-	5.8	5.13	4.62	5.28

Ant.	Items	Composite Gain (dBi) for 2TX								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
Ant 5~8 Radio 3 6G Full 6G Low	DG [1SS]	-	-	-	-	-	6.33	6.5	5.7	5.91
	DG [2SS]	-	-	-	-	-	5.8	5.13	4.62	5.28
Ant 9~10 Radio 4 Scan	DG [1SS]	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.76
	DG [2SS]	2.86	4.11	4.34	5.46	4.34	5.68	4.88	5.13	4.76

Note 1: The EUT has nineteen antennas.

Note 2: The antenna gain and directional gain are measured which follow the procedure of KDB 662911 D03.

Note 3: BT= Bluetooth.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/4RX) (Radio 1)

Ant. 1 or Ant. 2 or Ant.4 could transmit/receive.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/4RX) (Radio 1)

Ant. 1 or Ant. 2 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) (Radio 1)

Ant. 1 or Ant. 2 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Scan Radio)

Ant. 9~10 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 1_Low and)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 1_Low and)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 1_Low and)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 2)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 or Ant.19 could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 2)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 or Ant.19 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 2)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 or Ant.19 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Scan Radio)

Ant. 9~10 could transmit/receive simultaneously.

For 6GHz function:



For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 1_High Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 1_High Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 1_High Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 3_Low Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive.

Ant. 5 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3_Low Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

Ant. 5~6 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3_Low Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

Ant. 5~8 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 3)

Ant. 1 or Ant. 2 or Ant.3 or Ant.19 could transmit/receive.

Ant. 5 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3)

Ant. 1 or Ant. 2 or Ant.3 or Ant.19 could transmit/receive simultaneously.

Ant. 5~6 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3)

Ant. 1 or Ant. 2 or Ant.3 or Ant.19 could transmit/receive simultaneously.

Ant. 5~8 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Scan Radio)

Ant. 9~10 could transmit/receive simultaneously.

For BT function:

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

Ant. 11 or Ant.12 or Ant 13 or Ant 14 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 2 and it was recorded in this test report.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 11 or Ant.12 or Ant 13 or Ant 14 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 2 and it was recorded in this test report.

For UWB function(2TX/4RX):

Ant. 15 and Ant 17 could transmit. Ant. 15~18 could receive.

Note 4: Directional gain information (Ant 1~4, 19)

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

1.1.4 Mode Test Duty Cycle

Mode 1: EUT (External: Ant. 19) / R2

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.526	2.79	128.281u	10k
802.11be EHT20_Nss 1,(M0)	0.901	0.45	321.875u	5k
802.11be EHT40_Nss 1,(M0)	0.897	0.47	304.219u	5k
802.11be EHT80_Nss 1,(M0)	0.898	0.47	294.688u	5k
802.11be EHT160_Nss 1,(M0)	0.898	0.47	290.625u	5k
802.11be EHT20_Nss 2,(M0)	0.894	0.49	311.406u	5k
802.11be EHT40_Nss 2,(M0)	0.897	0.47	305.781u	5k
802.11be EHT80_Nss 2,(M0)	0.897	0.47	297.813u	5k
802.11be EHT160_Nss 2,(M0)	0.897	0.47	293.906u	5k
802.11be EHT20_Nss 4,(M0)	0.901	0.45	320.156u	5k
802.11be EHT40_Nss 4,(M0)	0.903	0.44	312.188u	5k
802.11be EHT80_Nss 4,(M0)	0.904	0.44	308.281u	5k
802.11be EHT160_Nss 4,(M0)	0.897	0.47	308.281u	5k
802.11be EHT20-BF_Nss 1,(M0)	0.901	0.45	321.875u	5k
802.11be EHT40-BF_Nss 1,(M0)	0.897	0.47	304.219u	5k
802.11be EHT80-BF_Nss 1,(M0)	0.898	0.47	294.688u	5k
802.11be EHT160-BF_Nss 1,(M0)	0.898	0.47	290.625u	5k

Mode 2: EUT (External: Ant. 19) / R2_(MRU (puncturing))

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss 1,(M0),RU484+RU242 1TX	0.97	0.13	1.003m	1k
802.11be EHT160_Nss 1,(M0),RU996+RU484+RU242 1TX	0.97	0.13	1.003m	1k
802.11be EHT160_Nss 1,(M0),RU996+RU484 1TX	0.97	0.13	1.003m	1k
802.11be EHT80_Nss 2,(M0),RU484+RU242 2TX	0.97	0.13	1m	1k
802.11be EHT160_Nss 2,(M0),RU996+RU484+RU242 2TX	0.97	0.13	1.003m	1k
802.11be EHT160_Nss 2,(M0),RU996+RU484 2TX	0.97	0.13	1.003m	1k
802.11be EHT80_Nss 4,(M0),RU484+RU242 4TX	0.969	0.14	996.875u	2k
802.11be EHT160_Nss 4,(M0),RU996+RU484+RU242 4TX	0.97	0.13	1.003m	1k
802.11be EHT160_Nss 4,(M0),RU996+RU484 4TX	0.97	0.13	1.003m	1k

Note:

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

**1.1.5 EUT Operational Condition**

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax/be in 2.4GHz (Radio 1), n/ac/ax/be in 5GHz (Radio 1, 2) and ax/be in 6GHz (Radio 1, 3).			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☒	Supported for Radio 1, 2		
	☒	Unsupported for Scanning Radio 4		
Support RU	☒	Full RU for Radio 1, 2, 4	☒	Partial RU for Radio 1, 2
Test Software Version	Mtool 3.4.1.0			

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT Support Function

Function
AP
Bridge
Mesh

Note: The above information was declared by manufacturer.

1.1.7 Table for Radio Function

Radio (R)	WLAN 2.4GHz	5GHz	Scanning radio (WLAN 2.4GHz / 5GHz / 6GHz)	6GHz	Bluetooth / IEEE802.15.4	UWB
R1	V (AP, Bridge, Mesh)	V (AP for UNII 1~2A, Bridge, Mesh for UNII 1)	-	V (AP for 6GHz UNII 7~8/6SD External ant.)	-	-
R2	-	V (AP for UNII 1~3 or UNII 2C~3 / Bridge, Mesh for UNII 3)	-	-	-	-
R3	-	-	-	V (AP for 6GHz UNII 5~8 or UNII 5/6ID Internal ant.&6SD External ant.)	-	-
R4	-	-	V (AP, for 2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8/6ID Internal ant.&6SD Internal ant.)	-	-	-
R5	-	-	-	-	V	-
R6	-	-	-	-	-	V

Note 1: The above information was declared by manufacturer.

Note 2: R means Radio

1.1.8 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: 5O0964

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

Modifications	Performance Checking
1. Add external Ant.19 for Radio 2 and Radio 3 (Standard Power Access Point mode only).	1. Emission Bandwidth 2. Maximum Output Power 3. Power Spectral Density 4. Unwanted Emissions
2. External Ant. 2 for the Standard Power Access Point mode has been enabled in Radio 1 and Radio 3.	After evaluation, this does not affect this report.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020
- ♦ 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 Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Brian Sun	21.7~22.4 / 59~62	Jan. 17, 2026~ Jul. 03, 2026
Radiated > 1GHz	03CH03-CB	George Fan	23.5~24.1 / 58~65	May 29, 2026~ Jul. 02, 2026
	03CH04-CB	Stim Sung	24.5~24.7 / 58~67	
	03CH05-CB	Lex Lee	24.1~24.9 / 69~69	
Radiated < 1GHz	10CH01-CB	Joe Chu	23~24 / 55~56	Jul. 17, 2026



1.4 Measurement Uncertainty

Test Date: Before May 28, 2026

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%

Test Date: After May 27, 2026

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	3.9 dB	Confidence levels of 95%
Radiated Emissions below 1GHz	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.5 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.3 dB	Confidence levels of 95%
Conducted Emission	3.8 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	3.5 dB	Confidence levels of 95%
Bandwidth Measurement	1.6 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode 1: EUT (External: Ant. 19) / R2

Mode
802.11a_Nss1,(6Mbps)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_1TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz



802.11be EHT80_Nss1,(MCS0)_1TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz



5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20_Nss2,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss2,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss2,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz



5775MHz
802.11be EHT160_Nss2,(MCS0)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz



5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20_Nss4,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss4,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss4,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss4,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5180MHz



5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz



5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

Mode 2: EUT (External: Ant. 19) / R2_(MRU (puncturing))

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_1TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 4_1TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_1TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_1TX
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 6_1TX
5570MHz



802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_1TX
5570MHz
802.11be EHT80_Nss2,(MCS0),RU484+RU242 MRU 3_2TX
5210MHz
802.11be EHT80_Nss2,(MCS0),RU484+RU242 MRU 1_2TX
5290MHz
802.11be EHT80_Nss2,(MCS0),RU484+RU242 MRU 3_2TX
5530MHz
802.11be EHT80_Nss2,(MCS0),RU484+RU242 MRU 4_2TX
5610MHz
802.11be EHT80_Nss2,(MCS0),RU484+RU242 MRU 1_2TX
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss2,(MCS0),RU484+RU242 MRU 3_2TX
5775MHz
802.11be EHT160_Nss2,(MCS0),RU996+RU484+RU242 MRU 7_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss2,(MCS0),RU996+RU484 MRU 2_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss2,(MCS0),RU996+RU484+RU242 MRU 7_2TX
5570MHz
802.11be EHT160_Nss2,(MCS0),RU996+RU484 MRU 3_2TX
5570MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1_4TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 4_4TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1_4TX
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 3_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5_4TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
5570MHz
802.11be EHT80_Nss4,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz



802.11be EHT80_Nss4,(MCS0),RU484+RU242 MRU 1_4TX
5290MHz
802.11be EHT80_Nss4,(MCS0),RU484+RU242 MRU 2_4TX
5530MHz
802.11be EHT80_Nss4,(MCS0),RU484+RU242 MRU 2_4TX
5610MHz
802.11be EHT80_Nss4,(MCS0),RU484+RU242 MRU 3_4TX
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss4,(MCS0),RU484+RU242 MRU 3_4TX
5775MHz
802.11be EHT160_Nss4,(MCS0),RU996+RU484+RU242 MRU 3_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss4,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss4,(MCS0),RU996+RU484+RU242 MRU 7_4TX
5570MHz
802.11be EHT160_Nss4,(MCS0),RU996+RU484 MRU 3_4TX
5570MHz

Note:

- ♦ EHT20 / EHT40 / EHT80 / EHT 160 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HEW20 / HEW40 / HEW80 / HEW 160 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HEW20 / HEW40 / HEW80 / HEW 160 is the same or lower than EHT20 / EHT40 / EHT80 / EHT160.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power
Test Condition	Conducted measurement at transmit chains
1	EUT (External: Ant. 19) / R2

The Worst Case Mode for Following Conformance Tests	
Tests Item	Power Spectral Density Unwanted Emissions
Test Condition	Conducted measurement at transmit chains
1	EUT (External: Ant. 19) / R2
2	EUT (External: Ant. 19) / R2 (MRU (puncturing))

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1. After evaluating, and the worst case axis was found as below for Unwanted Emissions above 1GHz test. So the measurement will follow this same test configuration. 2. The EUT performed testing with the following power supplied: (1) PoE(Powered from Eth0 port) (2) PoE(Powered from Eth1 port) (3) PoE(Powered from Eth0+Eth1 port) (4) Adapter "PoE(Powered from Eth0 port)" has been evaluated to be the worst case after evaluating. So the measurement will follow this same test configuration.	
1	EUT in Z axis + External: Ant. 19 / R2 (5GHz)+PoE(Powered from Eth0 port)
2	EUT in Y axis + External: Ant. 19 / R3 (6GHz)+PoE(Powered from Eth0 port)
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX (Cabinet)
After evaluating, and the worst case axis was found as below. So the measurement will follow this same test configuration.	
1	EUT in Z axis + External: Ant. 19 / R2
2	EUT in Z axis + External: Ant. 19 / R2_(MRU (puncturing))



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (2.4G)+BT+UWB
2	Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (5G)+BT+UWB
3	Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (6G)+BT+UWB
4	Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (2.4G)+802.15.4+UWB
5	Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (5G)+802.15.4+UWB
6	Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (6G)+802.15.4+UWB
7	Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (2.4G)+BT+UWB
8	Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (5G)+BT+UWB
9	Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (6G)+BT+UWB
10	Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (2.4G)+802.15.4+UWB
11	Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (5G)+802.15.4+UWB
12	Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (6G)+802.15.4+UWB
13	Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (2.4G)+BT+UWB
14	Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (5G)+BT+UWB
15	Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (6G)+BT+UWB
16	Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (2.4G)+802.15.4+UWB
17	Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (5G)+802.15.4+UWB
18	Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (6G)+802.15.4+UWB
Refer to Sporton Test Report No.: FA5O0964-13 for Co-location RF Exposure Evaluation.	

Note 1: The following test mode table is only applicable to Radio 2 and is declared by the manufacturer.

Regarding the output power, please refer to Note 2, as declared by the manufacturer.

Test Mode of Radio 2									
Test Item	802.11a			802.11be EHT20/40/80/160					TXBF 2T1S, 4T1S
	1T1S	2T1S	4T1S	1T1S	2T1S	2T2S	4T1S	4T4S	
Maximum Output Power	V	V	V	V	V	V	V	V	V
Emission Bandwidth	V	V	V	V	-	V	V	V	-
Power Spectral Density	V	V	V	V	-	V	V	V	-
CSE Harmonic	V	V	V	V	-	V	V	V	-
Band Edge Emission	V	V	V	V	-	V	V	V	-

Note 2: 802.11be EHT20/40/80/160 2T1S CDD mode was covered by 802.11be EHT20/40/80/160 2T2S, due to $CDD\ 2T1S = 2T2S - (10 \times \log(2/1))$.

Note 3: "R" = "Radio" ; "BT" = "Bluetooth".

Note 4: The adapter and PoE are for measurement only, would not be marketed.



The information as below:

Power	Brand	Model
Adapter	Powertron	PA1045-120HB300
PoE	Microsemi	PD-9501-10GC/AC

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Bracket*1

2.5 Support Equipment

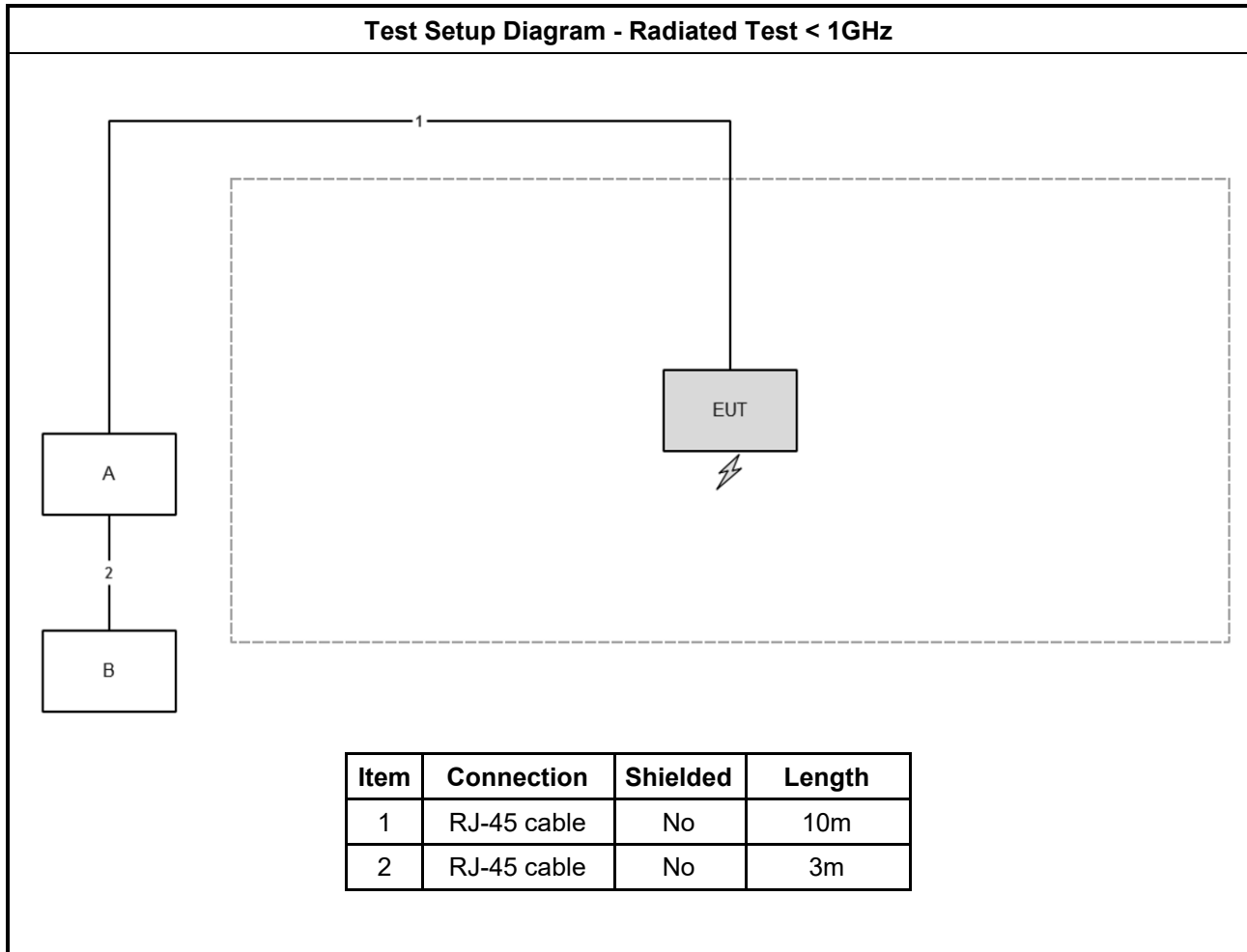
For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9501-10GC/AC	N/A
B	PC	ASUS	S300TA	TX2-RTL8821CE

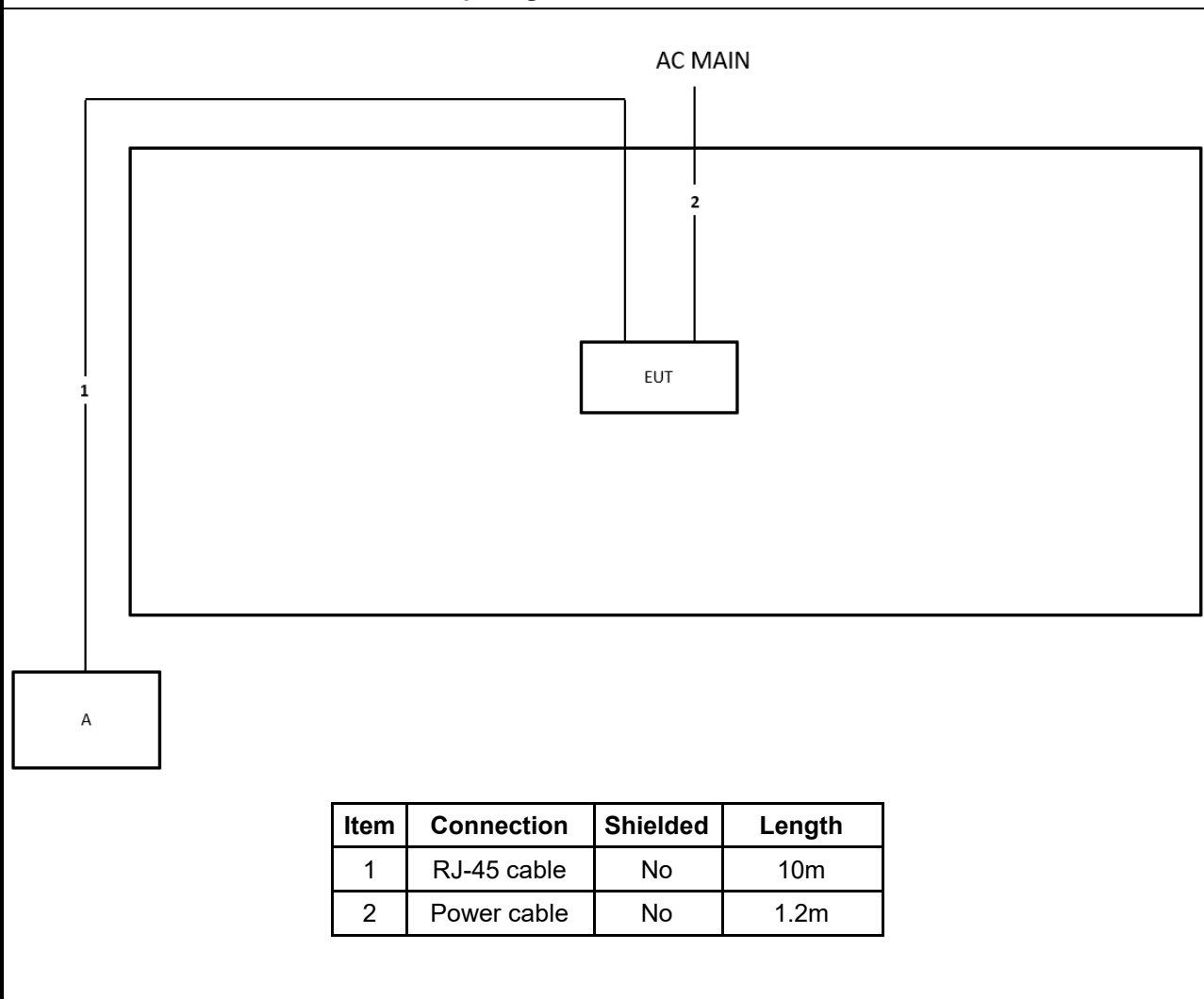
For RF Conducted and Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Adapter	Powertron	PA1045-120HB300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, 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, 26 dB emission bandwidth ,N/A. 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 5.47-5.725 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 $\geq 500\text{kHz}$.

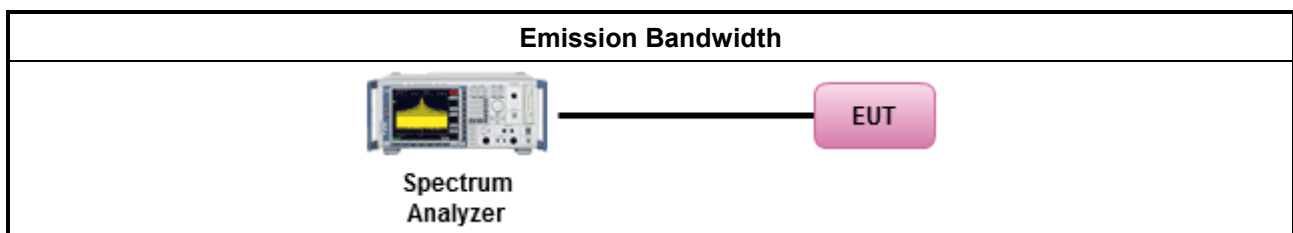
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup





3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Output Power

3.2.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- For other devices: The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. - Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.25-5.35 GHz band:	
☐	- For other devices: The maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz - Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. - Devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.
☐ For the 5.47-5.725 GHz band:	



	- The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10 B$, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. - Equipment with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.
☐	For the 5.725-5.85 GHz band:
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.2.2 Measuring Instruments

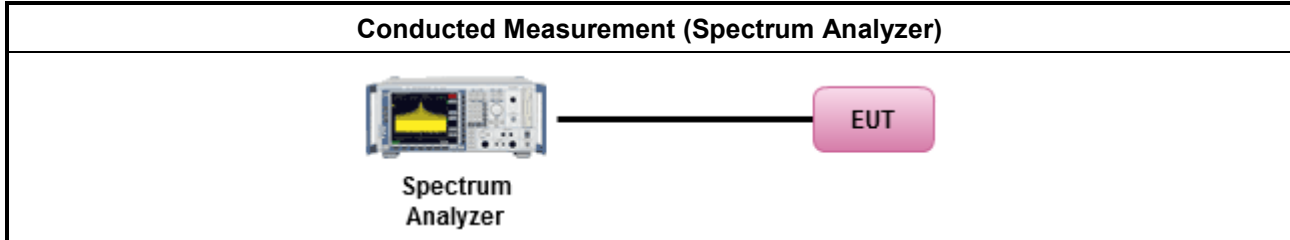
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

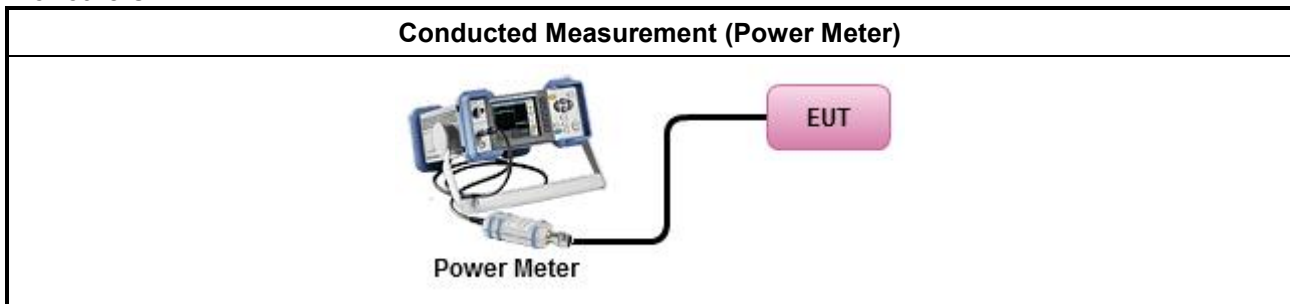
Test Method	
Maximum Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.2.4 Test Setup

For Straddle Channels:



For others:



3.2.5 Test Result of Maximum Output Power

Refer as Appendix B



3.3 Power Spectral Density

3.3.1 Limit

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

3.3.2 Measuring Instruments

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

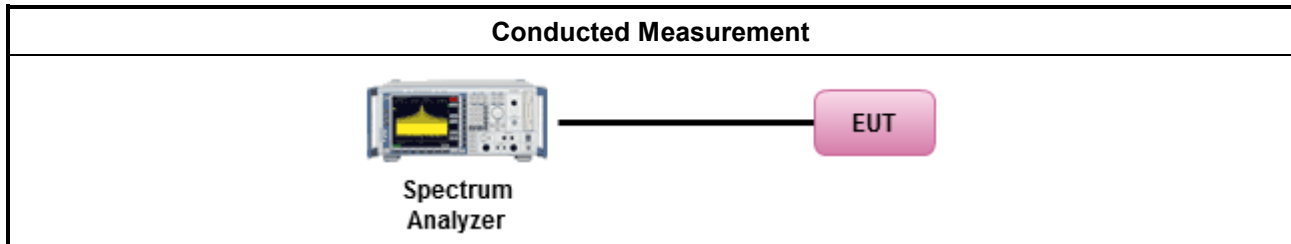


3.3.3 Test Procedures

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

☐	For radiated measurement.
☐	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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



3.4.2 Measuring Instruments

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

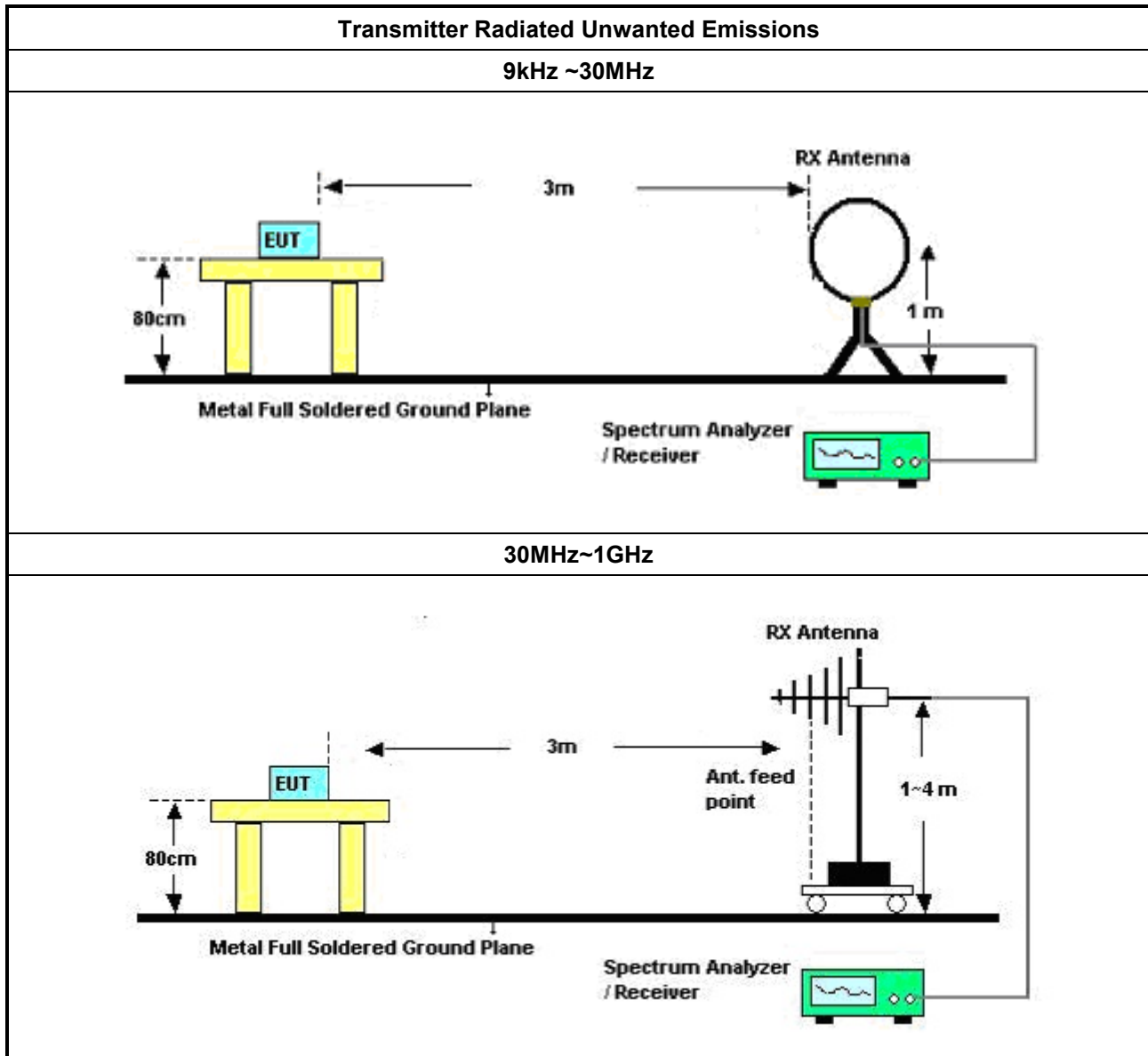
3.4.3 Test Procedures

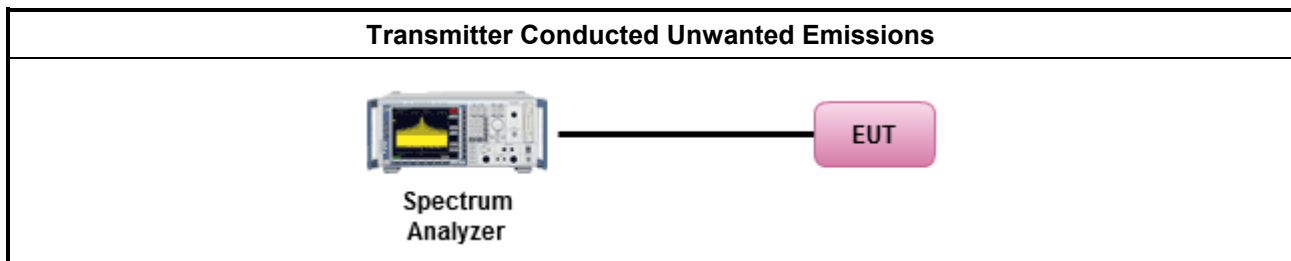
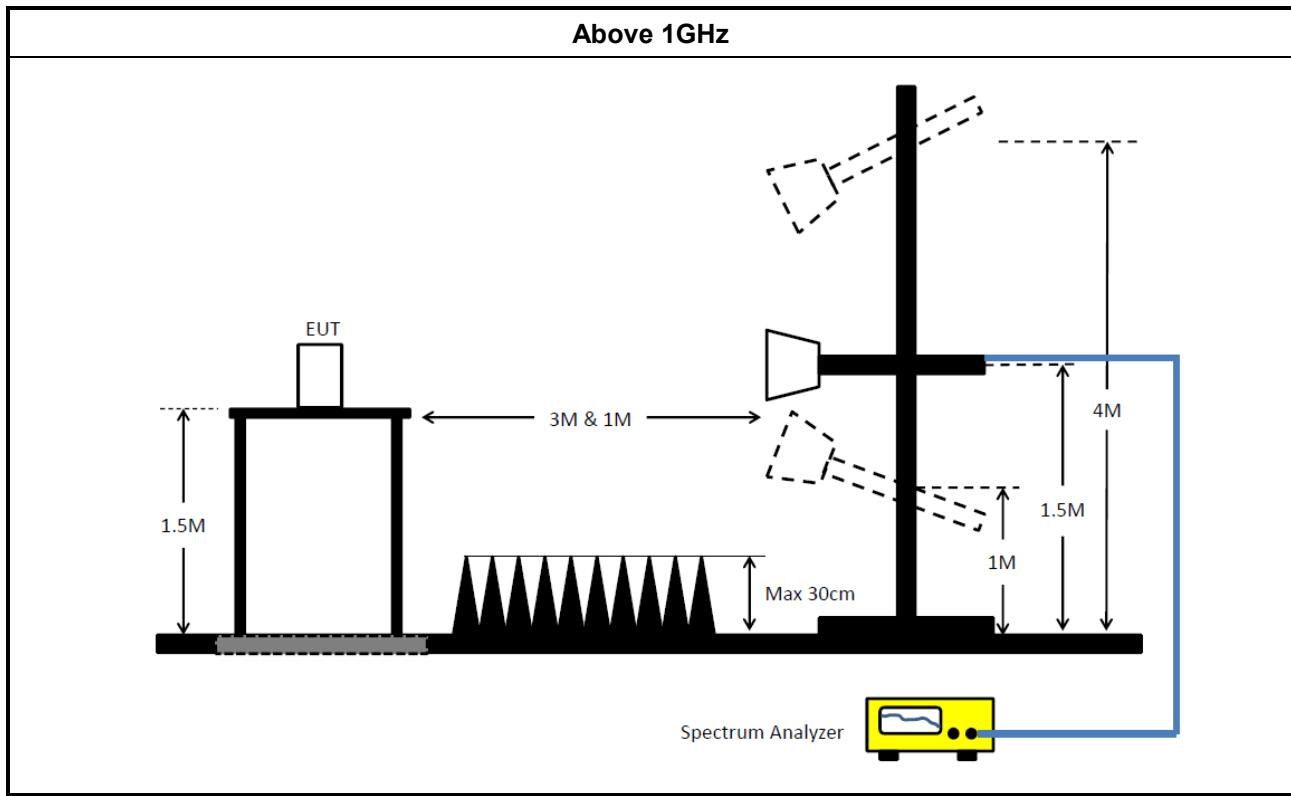
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above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



Test Method	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033 D02, clause G)3).	
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.4.4 Test Setup





3.4.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 14, 2026	Jan. 13, 2027	Radiation (10CH01-CB)
High Cable	TITAN	T318E	High cable01	30MHz ~ 18GHz	Nov. 27, 2025	Nov. 26, 2026	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 14, 2025	Oct. 13, 2026	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 14, 2025	Oct. 13, 2026	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 07, 2026	Mar. 06, 2027	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 07, 2026	Mar. 06, 2027	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 15, 2025	Oct. 14, 2026	Radiation (10CH01-CB)
Bilog Antenna with 6 dB attenuator	SCHWARZBECK & EMCI	VULB 9168 & N-6-06	1469 & AT-N06021	30MHz ~ 1GHz	Jan. 08, 2026	Jan. 07, 2027	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESR7	103076	9 kHz ~ 7GHz	May. 22, 2026	May. 21, 2027	Radiation (10CH01-CB)
Signal Analyzer	R&S	FSV40	101027	9kHz~40GHz	Sep. 03, 2025	Sep. 02, 2026	Radiation (10CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May. 01, 2026	Apr. 30, 2027	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Feb. 11, 2026	Feb. 10, 2027	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 27, 2026	Jun. 26, 2027	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH5265	20240911-1	1~ 26.5GHz	Sep. 18, 2025	Sep. 17, 2026	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 21, 2025	Nov. 20, 2026	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Feb. 06, 2026	Feb. 05, 2027	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jul. 17, 2025	Jul. 16, 2026	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 27	5.15GHz-7.115 GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 13, 2026	Feb. 12, 2027	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Apr. 24, 2026	Apr. 23, 2027	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Apr. 24, 2026	Apr. 23, 2027	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Feb. 11, 2026	Feb. 10, 2027	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 13, 2026	Jan. 12, 2027	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 21, 2025	Nov. 20, 2026	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 31, 2025	Dec. 30, 2026	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 30, 2026	Mar. 29, 2027	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 27	5.15GHz-7.115 GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 27, 2025	Sep. 26, 2026	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jun. 27, 2026	Jun. 26, 2027	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 21, 2025	Nov. 20, 2026	Radiation (03CH05-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Nov. 05, 2025	Nov. 04, 2026	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	May. 08, 2026	May. 07, 2027	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 27	5.15GHz-7.115 GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz z	Oct. 28, 2025	Oct. 27, 2026	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz z	Oct. 28, 2025	Oct. 27, 2026	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1728001	300MHz~40GHz z	Aug. 29, 2025	Aug. 28, 2026	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1531343	300MHz~40GHz z	Aug. 29, 2025	Aug. 28, 2026	Conducted (TH02-CB)
Signal Analyzer	R&S	FSV3044	101321	9kHz ~ 44GHz	Jul. 01, 2025	Jun. 30, 2026	Conducted (TH02-CB)
Signal Analyzer	R&S	FSV3044	101878	10kHz ~ 44GHz	May 11, 2026	May 10, 2027	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1–18 GHz	Sep. 20, 2025	Sep. 19, 2026	Conducted (TH02-CB)
Test Software	SPORTON	SENSE-15407 _NII	V5.11. 27	5.15GHz-7.115 GHz	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

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

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)_1TX	21.45M	16.758M	16M8D1D	20.845M	16.663M
802.11a_Nss1,(6Mbps)_2TX	21.67M	16.854M	16M9D1D	20.515M	16.545M
802.11a_Nss1,(6Mbps)_4TX	21.23M	16.79M	16M8D1D	20.625M	16.568M
802.11be EHT20_Nss1,(MCS0)_1TX	22M	19.112M	19M1D1D	21.12M	19.016M
802.11be EHT20_Nss2,(MCS0)_2TX	24.53M	19.179M	19M2D1D	20.9M	18.977M
802.11be EHT20_Nss1,(MCS0)_4TX	24.09M	19.128M	19M1D1D	20.955M	18.937M
802.11be EHT20_Nss4,(MCS0)_4TX	24.64M	19.143M	19M1D1D	20.845M	18.966M
802.11be EHT40_Nss1,(MCS0)_1TX	47.96M	37.911M	37M9D1D	39.93M	37.777M
802.11be EHT40_Nss2,(MCS0)_2TX	43.45M	37.898M	37M9D1D	39.27M	37.692M
802.11be EHT40_Nss1,(MCS0)_4TX	47.96M	37.907M	37M9D1D	39.27M	37.68M
802.11be EHT40_Nss4,(MCS0)_4TX	56.87M	37.861M	37M9D1D	39.82M	37.686M
802.11be EHT80_Nss1,(MCS0)_1TX	84.04M	77.464M	77M5D1D	84.04M	77.464M
802.11be EHT80_Nss2,(MCS0)_2TX	92.84M	77.225M	77M2D1D	87.12M	77.182M
802.11be EHT80_Nss1,(MCS0)_4TX	94.6M	77.43M	77M4D1D	86.46M	77.347M
802.11be EHT80_Nss4,(MCS0)_4TX	87.34M	77.431M	77M4D1D	83.6M	77.292M
802.11be EHT160_Nss1,(MCS0)_1TX	80.96M	77.337M	77M3D1D	80.96M	77.337M
802.11be EHT160_Nss2,(MCS0)_2TX	81.6M	77.328M	77M3D1D	80.88M	77.126M
802.11be EHT160_Nss1,(MCS0)_4TX	80.88M	77.273M	77M3D1D	80.32M	77.231M
802.11be EHT160_Nss4,(MCS0)_4TX	81.44M	77.314M	77M3D1D	80.64M	77.147M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.23M	16.733M	16M7D1D	20.515M	16.604M
802.11a_Nss1,(6Mbps)_2TX	21.12M	16.692M	16M7D1D	20.405M	16.537M
802.11a_Nss1,(6Mbps)_4TX	21.615M	16.839M	16M8D1D	20.405M	16.584M
802.11be EHT20_Nss1,(MCS0)_1TX	22M	19.113M	19M1D1D	21.23M	19.009M
802.11be EHT20_Nss2,(MCS0)_2TX	23.1M	19.092M	19M1D1D	20.9M	18.989M
802.11be EHT20_Nss1,(MCS0)_4TX	24.31M	19.072M	19M1D1D	20.79M	18.961M
802.11be EHT20_Nss4,(MCS0)_4TX	23.815M	19.135M	19M1D1D	21.01M	18.974M
802.11be EHT40_Nss1,(MCS0)_1TX	48.18M	37.885M	37M9D1D	39.93M	37.766M
802.11be EHT40_Nss2,(MCS0)_2TX	41.8M	37.892M	37M9D1D	39.38M	37.717M
802.11be EHT40_Nss1,(MCS0)_4TX	47.08M	37.911M	37M9D1D	39.38M	37.668M
802.11be EHT40_Nss4,(MCS0)_4TX	46.53M	37.884M	37M9D1D	40.15M	37.661M
802.11be EHT80_Nss1,(MCS0)_1TX	98.34M	77.364M	77M4D1D	98.34M	77.364M
802.11be EHT80_Nss2,(MCS0)_2TX	85.8M	77.419M	77M4D1D	83.6M	77.238M
802.11be EHT80_Nss1,(MCS0)_4TX	101.64M	77.371M	77M4D1D	97.24M	77.199M
802.11be EHT80_Nss4,(MCS0)_4TX	90.42M	77.371M	77M4D1D	84.7M	77.197M
802.11be EHT160_Nss1,(MCS0)_1TX	80.8M	77.196M	77M2D1D	80.8M	77.196M
802.11be EHT160_Nss2,(MCS0)_2TX	81.36M	77.443M	77M4D1D	80.88M	77.333M
802.11be EHT160_Nss1,(MCS0)_4TX	81.28M	77.352M	77M4D1D	80.48M	77.237M
802.11be EHT160_Nss4,(MCS0)_4TX	81.92M	77.38M	77M4D1D	80.64M	77.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.9M	16.762M	16M8D1D	15.645M	13.317M
802.11a_Nss1,(6Mbps)_2TX	21.45M	16.769M	16M8D1D	15.45M	13.259M
802.11a_Nss1,(6Mbps)_4TX	21.285M	16.774M	16M8D1D	15.405M	13.342M
802.11be EHT20_Nss1,(MCS0)_1TX	24.805M	19.037M	19M0D1D	15.9M	14.559M
802.11be EHT20_Nss2,(MCS0)_2TX	21.56M	19.117M	19M1D1D	15.585M	14.562M
802.11be EHT20_Nss1,(MCS0)_4TX	24.97M	19.097M	19M1D1D	15.615M	14.504M
802.11be EHT20_Nss4,(MCS0)_4TX	24.145M	19.14M	19M1D1D	15.645M	14.513M
802.11be EHT40_Nss1,(MCS0)_1TX	48.18M	37.867M	37M9D1D	34.895M	33.715M
802.11be EHT40_Nss2,(MCS0)_2TX	47.52M	37.857M	37M9D1D	34.965M	33.744M
802.11be EHT40_Nss1,(MCS0)_4TX	50.6M	37.984M	38M0D1D	34.79M	33.687M
802.11be EHT40_Nss4,(MCS0)_4TX	59.51M	37.873M	37M9D1D	34.86M	33.688M
802.11be EHT80_Nss1,(MCS0)_1TX	86.68M	77.256M	77M3D1D	75.9M	73.296M
802.11be EHT80_Nss2,(MCS0)_2TX	81.84M	77.416M	77M4D1D	75.675M	73.152M
802.11be EHT80_Nss1,(MCS0)_4TX	88M	77.351M	77M4D1D	75.525M	73.105M

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11be EHT80_Nss4,(MCS0)_4TX	87.56M	77.436M	77M4D1D	75.6M	73.139M
802.11be EHT160_Nss1,(MCS0)_1TX	163.24M	155.959M	156MD1D	163.24M	155.959M
802.11be EHT160_Nss2,(MCS0)_2TX	163.68M	156.275M	156MD1D	162.8M	156.019M
802.11be EHT160_Nss1,(MCS0)_4TX	162.8M	156.316M	156MD1D	161.92M	156.011M
802.11be EHT160_Nss4,(MCS0)_4TX	164.12M	156.541M	157MD1D	161.92M	156.078M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.335M	16.885M	16M9D1D	3.18M	4.017M
802.11a_Nss1,(6Mbps)_2TX	16.335M	16.786M	16M8D1D	3.12M	3.799M
802.11a_Nss1,(6Mbps)_4TX	16.335M	16.736M	16M7D1D	2.96M	3.823M
802.11be EHT20_Nss1,(MCS0)_1TX	18.7M	19.096M	19M1D1D	4.46M	4.524M
802.11be EHT20_Nss2,(MCS0)_2TX	18.755M	19.178M	19M2D1D	4.3M	4.517M
802.11be EHT20_Nss1,(MCS0)_4TX	19.03M	19.132M	19M1D1D	4.3M	4.495M
802.11be EHT20_Nss4,(MCS0)_4TX	18.92M	19.112M	19M1D1D	3.82M	4.484M
802.11be EHT40_Nss1,(MCS0)_1TX	37.29M	37.806M	37M8D1D	3.94M	4.037M
802.11be EHT40_Nss2,(MCS0)_2TX	37.18M	37.82M	37M8D1D	3.74M	4.032M
802.11be EHT40_Nss1,(MCS0)_4TX	37.73M	37.863M	37M9D1D	3.7M	4.004M
802.11be EHT40_Nss4,(MCS0)_4TX	37.84M	37.876M	37M9D1D	3.6M	4.013M
802.11be EHT80_Nss1,(MCS0)_1TX	77M	77.158M	77M2D1D	3.64M	4.077M
802.11be EHT80_Nss2,(MCS0)_2TX	76.12M	77.258M	77M3D1D	2.54M	4.053M
802.11be EHT80_Nss1,(MCS0)_4TX	76.34M	77.341M	77M3D1D	3M	4.03M
802.11be EHT80_Nss4,(MCS0)_4TX	76.34M	77.41M	77M4D1D	3.46M	4.037M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.45M	16.758M						
5200MHz	Pass	Inf	20.845M	16.663M						
5240MHz	Pass	Inf	21.175M	16.676M						
5260MHz	Pass	Inf	20.515M	16.64M						
5300MHz	Pass	Inf	20.57M	16.604M						
5320MHz	Pass	Inf	21.23M	16.733M						
5500MHz	Pass	Inf	20.735M	16.762M						
5580MHz	Pass	Inf	20.9M	16.554M						
5700MHz	Pass	Inf	20.46M	16.614M						
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.645M	13.317M						
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	4.017M						
5745MHz	Pass	500k	16.06M	16.885M						
5785MHz	Pass	500k	16.335M	16.653M						
5825MHz	Pass	500k	16.335M	16.745M						
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22M	19.112M						
5200MHz	Pass	Inf	21.56M	19.055M						
5240MHz	Pass	Inf	21.12M	19.016M						
5260MHz	Pass	Inf	21.78M	19.046M						
5300MHz	Pass	Inf	21.23M	19.009M						
5320MHz	Pass	Inf	22M	19.113M						
5500MHz	Pass	Inf	24.805M	19.019M						
5580MHz	Pass	Inf	21.615M	19.037M						
5700MHz	Pass	Inf	21.01M	19.007M						
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.9M	14.559M						
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.524M						
5745MHz	Pass	500k	18.7M	19.053M						
5785MHz	Pass	500k	18.315M	19.021M						
5825MHz	Pass	500k	18.59M	19.096M						
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	47.96M	37.911M						
5230MHz	Pass	Inf	39.93M	37.777M						
5270MHz	Pass	Inf	39.93M	37.766M						
5310MHz	Pass	Inf	48.18M	37.885M						
5510MHz	Pass	Inf	48.18M	37.867M						
5550MHz	Pass	Inf	40.37M	37.712M						
5670MHz	Pass	Inf	40.04M	37.739M						
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.895M	33.715M						
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.94M	4.037M						
5755MHz	Pass	500k	37.29M	37.806M						
5795MHz	Pass	500k	36.74M	37.763M						
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	84.04M	77.464M						
5290MHz	Pass	Inf	98.34M	77.364M						
5530MHz	Pass	Inf	86.68M	77.256M						
5610MHz	Pass	Inf	81.84M	77.162M						
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.9M	73.296M						
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.64M	4.077M						
5775MHz	Pass	500k	77M	77.158M						
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.96M	77.337M						
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.8M	77.196M						
5570MHz	Pass	Inf	163.24M	155.959M						
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-

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)
5180MHz	Pass	Inf	21.175M	16.854M	21.67M	16.672M				
5200MHz	Pass	Inf	20.845M	16.647M	20.515M	16.545M				
5240MHz	Pass	Inf	20.9M	16.649M	20.625M	16.554M				
5260MHz	Pass	Inf	20.9M	16.65M	20.405M	16.537M				
5300MHz	Pass	Inf	21.12M	16.692M	20.625M	16.591M				
5320MHz	Pass	Inf	20.735M	16.682M	20.57M	16.685M				
5500MHz	Pass	Inf	21.45M	16.769M	20.68M	16.672M				
5580MHz	Pass	Inf	20.79M	16.561M	20.845M	16.597M				
5700MHz	Pass	Inf	20.79M	16.631M	20.185M	16.554M				
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.555M	13.28M	15.45M	13.259M				
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.014M	3.12M	3.799M				
5745MHz	Pass	500k	16.335M	16.786M	15.95M	16.715M				
5785MHz	Pass	500k	16.335M	16.672M	16.335M	16.61M				
5825MHz	Pass	500k	16.335M	16.624M	16.28M	16.587M				
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.53M	19.059M	21.45M	19.179M				
5200MHz	Pass	Inf	21.615M	19.07M	21.34M	18.989M				
5240MHz	Pass	Inf	21.505M	18.977M	20.9M	19.037M				
5260MHz	Pass	Inf	20.9M	18.989M	21.065M	19.046M				
5300MHz	Pass	Inf	21.45M	19.001M	21.175M	19.008M				
5320MHz	Pass	Inf	21.945M	19.046M	23.1M	19.092M				
5500MHz	Pass	Inf	21.395M	19.079M	21.56M	19.117M				
5580MHz	Pass	Inf	21.23M	19.029M	21.505M	18.998M				
5700MHz	Pass	Inf	20.9M	19.005M	21.34M	18.999M				
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.585M	14.562M	15.825M	14.562M				
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.3M	4.517M	4.4M	4.522M				
5745MHz	Pass	500k	18.59M	19.178M	16.72M	19.117M				
5785MHz	Pass	500k	18.59M	19.01M	17.765M	18.972M				
5825MHz	Pass	500k	18.755M	19.04M	18.59M	19.07M				
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	43.45M	37.835M	42.13M	37.898M				
5230MHz	Pass	Inf	39.82M	37.778M	39.27M	37.692M				
5270MHz	Pass	Inf	39.38M	37.721M	40.37M	37.717M				
5310MHz	Pass	Inf	41.8M	37.892M	41.8M	37.846M				
5510MHz	Pass	Inf	47.52M	37.857M	41.58M	37.814M				
5550MHz	Pass	Inf	40.04M	37.764M	40.37M	37.697M				
5670MHz	Pass	Inf	40.15M	37.734M	40.15M	37.67M				
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.965M	33.744M	35M	33.774M				
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.035M	3.8M	4.032M				
5755MHz	Pass	500k	35.75M	37.82M	37.18M	37.758M				
5795MHz	Pass	500k	36.63M	37.784M	37.18M	37.642M				
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	92.84M	77.225M	87.12M	77.182M				
5290MHz	Pass	Inf	85.8M	77.419M	83.6M	77.238M				
5530MHz	Pass	Inf	81.4M	77.416M	81.84M	77.276M				
5610MHz	Pass	Inf	81.62M	77.249M	81.4M	77.113M				
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	73.152M	76.125M	73.204M				
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.54M	4.053M	3.48M	4.054M				
5775MHz	Pass	500k	76.12M	77.172M	73.04M	77.258M				
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.6M	77.126M	80.88M	77.328M				
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.443M	80.88M	77.333M				
5570MHz	Pass	Inf	163.68M	156.275M	162.8M	156.019M				
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.9M	16.79M	21.23M	16.679M	21.01M	16.751M	20.955M	16.706M
5200MHz	Pass	Inf	20.955M	16.647M	20.625M	16.656M	20.845M	16.618M	20.9M	16.593M

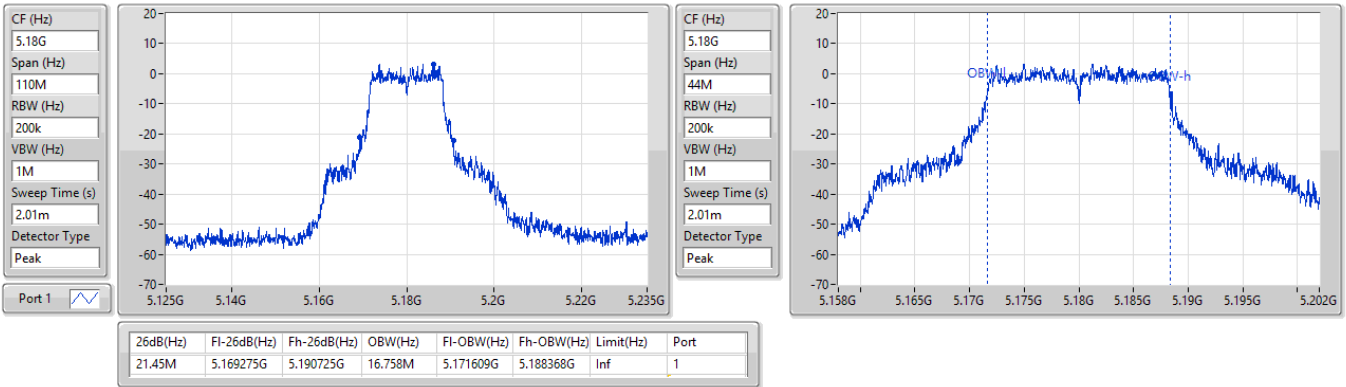
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5240MHz	Pass	Inf	20.845M	16.703M	20.68M	16.704M	20.79M	16.626M	21.01M	16.568M
5260MHz	Pass	Inf	21.065M	16.618M	21.175M	16.682M	21.01M	16.607M	20.405M	16.622M
5300MHz	Pass	Inf	20.845M	16.585M	20.735M	16.695M	20.845M	16.632M	20.625M	16.584M
5320MHz	Pass	Inf	20.79M	16.839M	21.12M	16.71M	21.175M	16.718M	21.615M	16.74M
5500MHz	Pass	Inf	21.285M	16.774M	20.845M	16.69M	20.68M	16.667M	21.285M	16.737M
5580MHz	Pass	Inf	20.9M	16.621M	20.845M	16.59M	20.625M	16.617M	20.735M	16.56M
5700MHz	Pass	Inf	20.845M	16.651M	20.515M	16.629M	20.79M	16.593M	21.175M	16.546M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.585M	13.363M	15.405M	13.355M	15.57M	13.406M	15.585M	13.342M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.978M	2.96M	3.905M	3.1M	3.957M	3.14M	3.823M
5745MHz	Pass	500k	16.335M	16.697M	15.62M	16.736M	15.95M	16.707M	16.335M	16.706M
5785MHz	Pass	500k	16.335M	16.662M	16.335M	16.581M	16.335M	16.64M	16.335M	16.583M
5825MHz	Pass	500k	16.335M	16.664M	16.335M	16.635M	16.335M	16.673M	16.335M	16.604M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.89M	19.105M	21.505M	19.128M	23.265M	19.124M	24.09M	19.064M
5200MHz	Pass	Inf	21.175M	19.008M	21.23M	18.985M	21.395M	18.937M	21.01M	18.986M
5240MHz	Pass	Inf	21.45M	19.05M	21.12M	18.99M	21.285M	18.981M	20.955M	18.996M
5260MHz	Pass	Inf	21.56M	18.974M	21.285M	18.963M	21.285M	19.016M	20.9M	18.961M
5300MHz	Pass	Inf	21.12M	19.02M	21.175M	18.992M	20.79M	18.995M	21.01M	18.998M
5320MHz	Pass	Inf	24.31M	19.045M	22.77M	19.045M	23.925M	19.057M	21.945M	19.072M
5500MHz	Pass	Inf	21.56M	19.069M	21.67M	19.066M	24.915M	19.097M	24.97M	19.089M
5580MHz	Pass	Inf	21.615M	19.05M	21.12M	19.016M	21.45M	19.032M	21.01M	18.933M
5700MHz	Pass	Inf	21.01M	19.058M	21.01M	19.062M	21.23M	19.041M	20.955M	18.982M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.69M	14.537M	15.705M	14.531M	15.705M	14.504M	15.615M	14.524M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.526M	4.46M	4.495M	4.3M	4.529M	4.44M	4.518M
5745MHz	Pass	500k	16.555M	19.053M	17.985M	19.047M	18.59M	19.051M	18.48M	19.064M
5785MHz	Pass	500k	18.865M	18.99M	18.81M	19.039M	18.865M	19.004M	18.48M	18.973M
5825MHz	Pass	500k	19.03M	19.132M	17.71M	19.013M	18.755M	19.027M	18.7M	18.957M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	44.22M	37.73M	43.12M	37.851M	47.96M	37.866M	47.52M	37.907M
5230MHz	Pass	Inf	39.82M	37.68M	39.27M	37.753M	39.49M	37.685M	39.82M	37.691M
5270MHz	Pass	Inf	40.48M	37.689M	40.26M	37.773M	39.38M	37.746M	40.04M	37.668M
5310MHz	Pass	Inf	41.36M	37.854M	42.46M	37.911M	40.92M	37.868M	47.08M	37.813M
5510MHz	Pass	Inf	50.6M	37.807M	47.41M	37.859M	41.47M	37.852M	41.36M	37.984M
5550MHz	Pass	Inf	40.04M	37.72M	40.15M	37.668M	39.82M	37.68M	39.6M	37.745M
5670MHz	Pass	Inf	40.15M	37.734M	40.26M	37.758M	40.26M	37.734M	40.15M	37.624M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.315M	33.747M	35.21M	33.745M	34.79M	33.687M	34.79M	33.731M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	4.024M	3.76M	4.016M	3.96M	4.004M	3.72M	4.017M
5755MHz	Pass	500k	36.85M	37.863M	36.96M	37.849M	36.08M	37.855M	37.62M	37.814M
5795MHz	Pass	500k	37.73M	37.74M	37.4M	37.69M	37.29M	37.66M	37.18M	37.708M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	87.78M	77.43M	87.12M	77.347M	86.46M	77.347M	94.6M	77.354M
5290MHz	Pass	Inf	97.46M	77.209M	101.64M	77.199M	97.24M	77.371M	97.24M	77.27M
5530MHz	Pass	Inf	86.46M	77.346M	86.02M	77.351M	86.02M	77.304M	88M	77.344M
5610MHz	Pass	Inf	80.3M	77.087M	81.4M	77.191M	81.84M	76.924M	80.52M	77.254M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.525M	73.18M	75.825M	73.133M	75.525M	73.135M	75.825M	73.105M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3M	4.036M	3.68M	4.03M	3.94M	4.04M	3.76M	4.033M
5775MHz	Pass	500k	75.46M	77.341M	75.24M	77.217M	76.34M	77.268M	75.9M	77.161M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.72M	77.231M	80.88M	77.273M	80.32M	77.244M	80.64M	77.269M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.48M	77.345M	81.28M	77.352M	81.2M	77.274M	80.64M	77.237M
5570MHz	Pass	Inf	161.92M	156.316M	162.8M	156.011M	162.8M	156.248M	162.36M	156.212M
802.11be EHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.485M	19.126M	20.845M	19.043M	22.165M	19.143M	24.64M	19.093M
5200MHz	Pass	Inf	21.175M	19.024M	20.955M	18.989M	21.56M	19.104M	21.56M	19.04M
5240MHz	Pass	Inf	21.175M	18.966M	21.285M	18.982M	21.01M	19.058M	21.505M	19.029M
5260MHz	Pass	Inf	21.23M	18.991M	21.395M	19.005M	21.395M	18.977M	21.01M	19.069M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5300MHz	Pass	Inf	21.23M	19.012M	21.01M	18.974M	21.505M	19.015M	21.395M	19.029M
5320MHz	Pass	Inf	22.66M	19.082M	23.1M	19.083M	23.815M	19.135M	21.285M	19.069M
5500MHz	Pass	Inf	24.145M	19.1M	22.165M	19.077M	21.945M	19.093M	23.815M	19.14M
5580MHz	Pass	Inf	21.23M	19.004M	21.065M	19.001M	21.34M	19.003M	21.34M	19.001M
5700MHz	Pass	Inf	20.845M	19.01M	21.285M	18.958M	21.175M	19.026M	21.01M	19.045M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.84M	14.569M	15.645M	14.513M	15.915M	14.59M	15.645M	14.565M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.484M	3.96M	4.511M	3.82M	4.503M	4.4M	4.518M
5745MHz	Pass	500k	18.48M	19.071M	18.205M	19.071M	17.215M	19.112M	18.26M	19.07M
5785MHz	Pass	500k	18.59M	19.02M	18.425M	19.015M	18.92M	19.042M	18.92M	19.015M
5825MHz	Pass	500k	18.04M	19.029M	18.645M	19.061M	18.48M	19.06M	18.92M	19.004M
802.11be EHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	45.98M	37.861M	56.87M	37.859M	41.14M	37.842M	44.77M	37.858M
5230MHz	Pass	Inf	39.93M	37.686M	39.82M	37.807M	39.82M	37.694M	39.93M	37.691M
5270MHz	Pass	Inf	40.48M	37.661M	40.26M	37.694M	40.26M	37.699M	40.15M	37.666M
5310MHz	Pass	Inf	46.53M	37.731M	44.44M	37.872M	42.02M	37.884M	42.46M	37.841M
5510MHz	Pass	Inf	59.51M	37.873M	45.76M	37.821M	43.89M	37.872M	45.1M	37.847M
5550MHz	Pass	Inf	40.26M	37.782M	40.15M	37.809M	39.82M	37.746M	39.82M	37.711M
5670MHz	Pass	Inf	40.26M	37.66M	40.15M	37.661M	40.48M	37.712M	40.04M	37.723M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.895M	33.731M	34.86M	33.734M	35.105M	33.688M	35.07M	33.742M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.6M	4.017M	4.02M	4.03M	3.72M	4.021M	3.98M	4.013M
5755MHz	Pass	500k	37.84M	37.825M	36.63M	37.79M	35.2M	37.876M	37.29M	37.829M
5795MHz	Pass	500k	37.29M	37.714M	37.29M	37.68M	36.19M	37.79M	37.18M	37.815M
802.11be EHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	85.8M	77.357M	83.6M	77.318M	87.34M	77.431M	85.8M	77.292M
5290MHz	Pass	Inf	90.42M	77.371M	84.7M	77.363M	85.14M	77.319M	89.1M	77.197M
5530MHz	Pass	Inf	87.56M	77.259M	83.6M	77.269M	84.26M	77.372M	84.04M	77.436M
5610MHz	Pass	Inf	81.62M	77.128M	81.84M	77.27M	81.18M	77.157M	80.74M	77.019M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.6M	73.24M	76.05M	73.269M	75.825M	73.139M	75.6M	73.181M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.137M	4.04M	4.065M	3.46M	4.037M	3.66M	4.05M
5775MHz	Pass	500k	75.46M	77.314M	75.9M	77.271M	76.34M	77.191M	75.9M	77.41M
802.11be EHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.12M	77.306M	81.2M	77.194M	80.64M	77.314M	81.44M	77.147M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.64M	77.121M	81.2M	77.38M	80.96M	77.126M	81.92M	77.159M
5570MHz	Pass	Inf	164.12M	156.078M	161.92M	156.346M	162.8M	156.104M	163.24M	156.541M

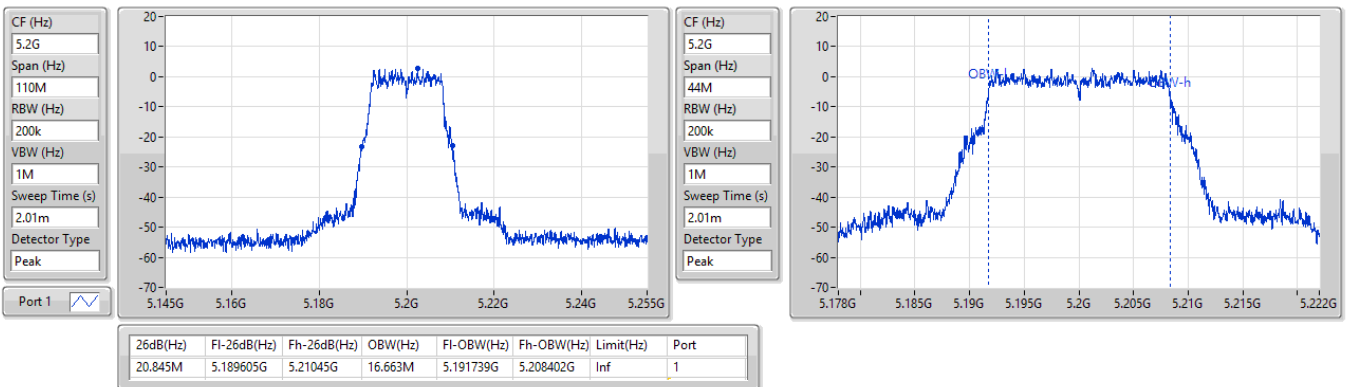
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5180MHz

26/05/2026

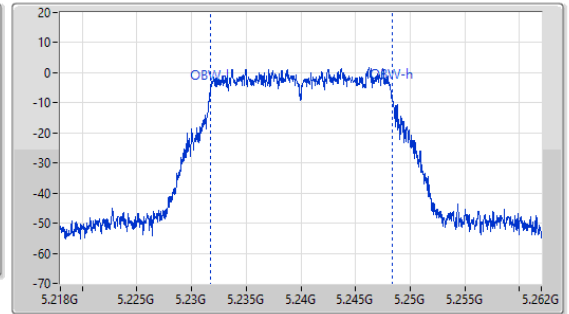
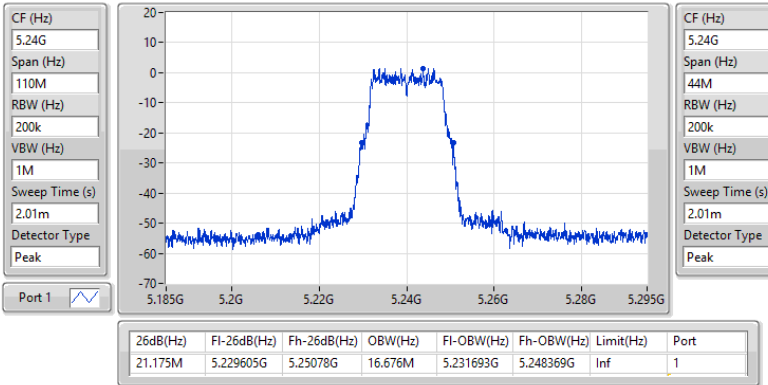

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5200MHz

26/05/2026

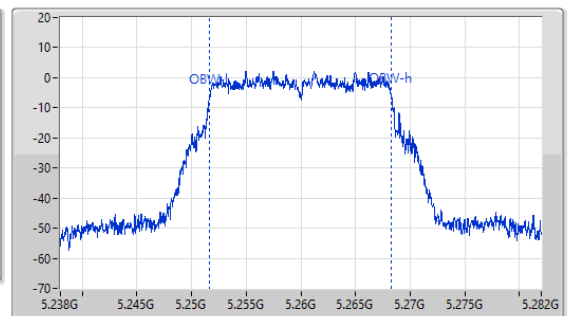
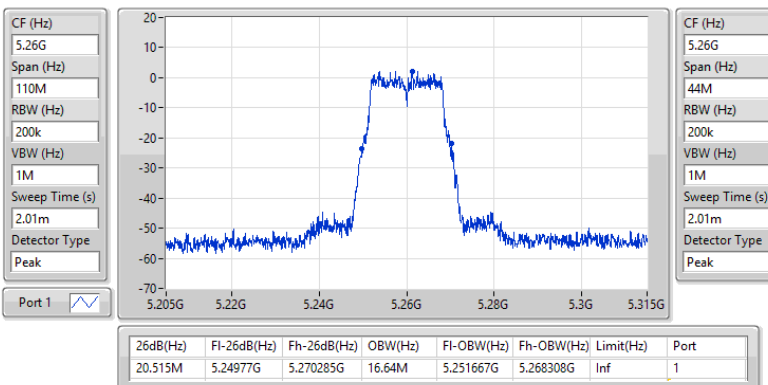


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5240MHz

26/05/2026

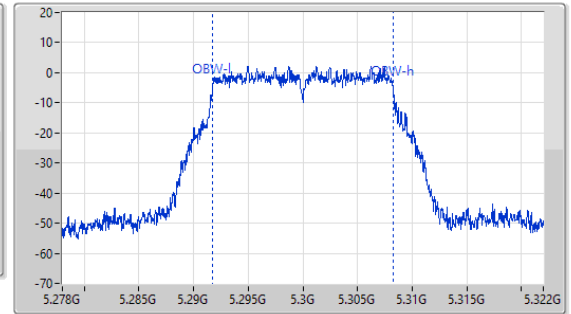
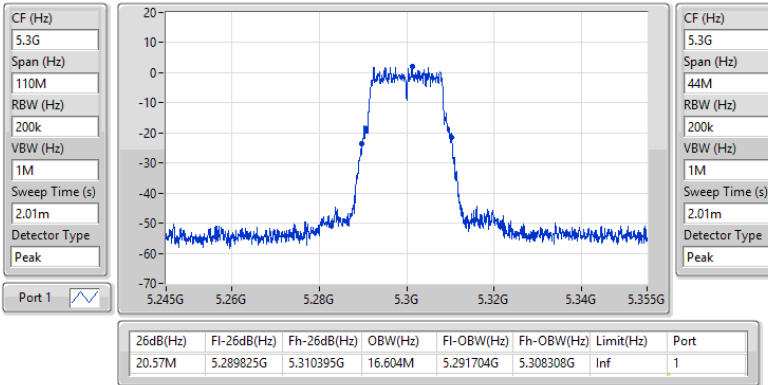

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

26/05/2026

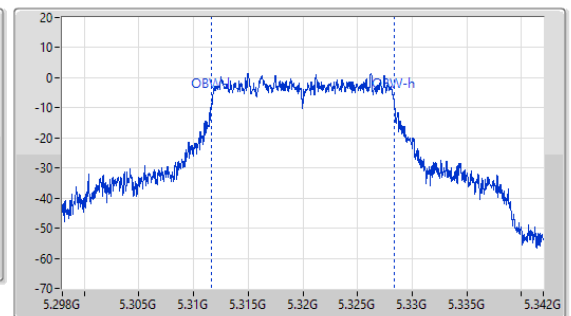
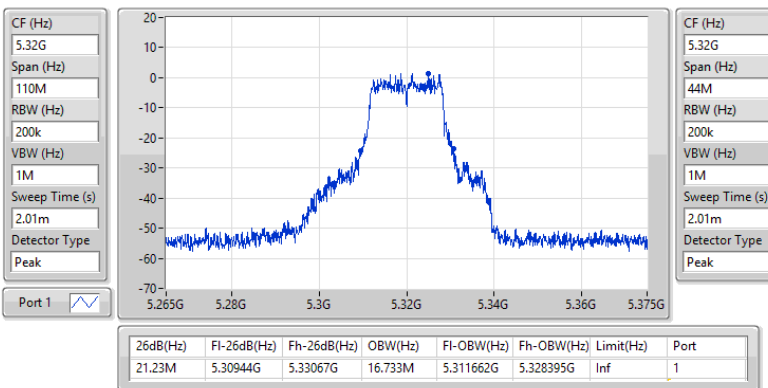


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

26/05/2026


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

26/05/2026

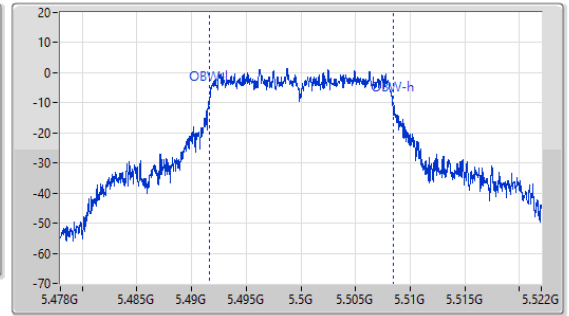
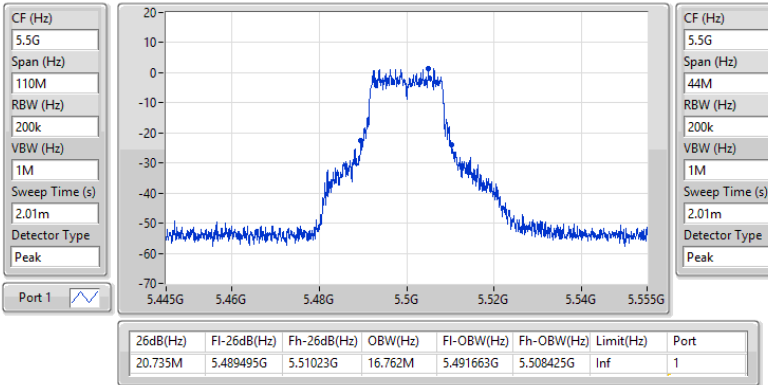


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5500MHz

26/05/2026

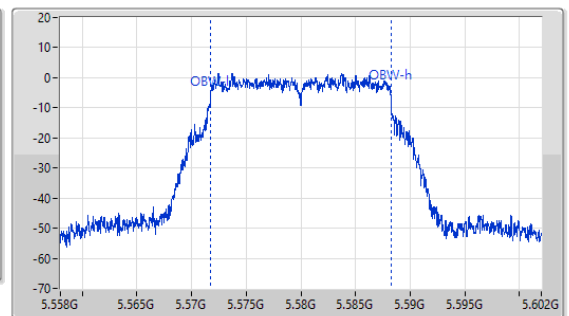
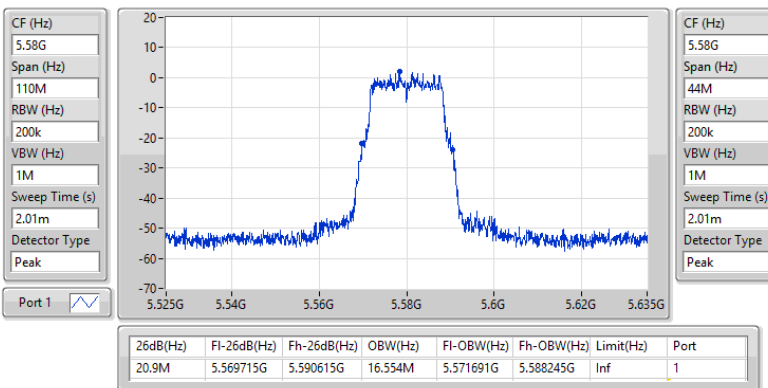


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

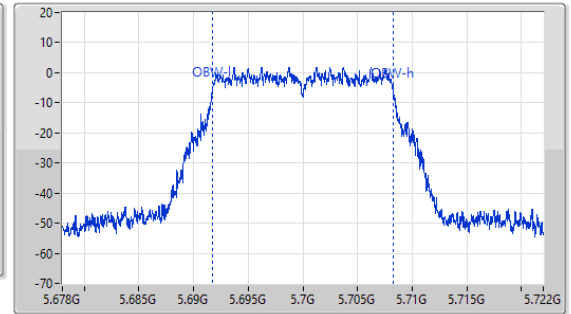
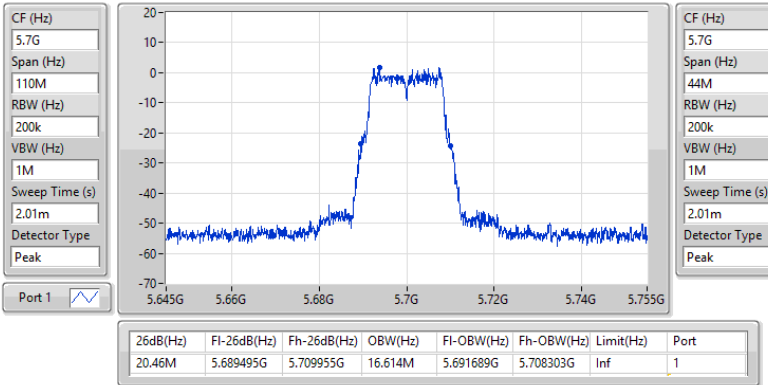
5580MHz

26/05/2026

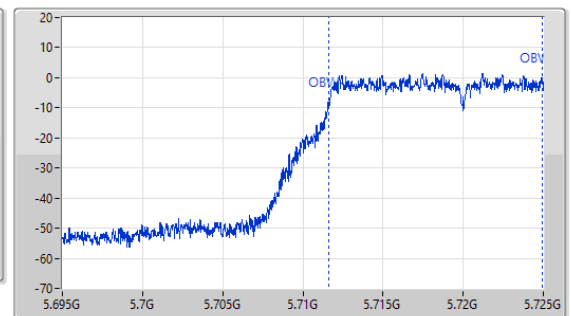
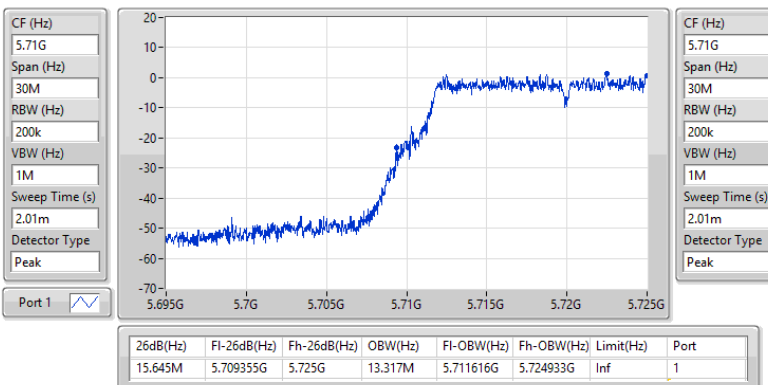


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

26/05/2026


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/05/2026

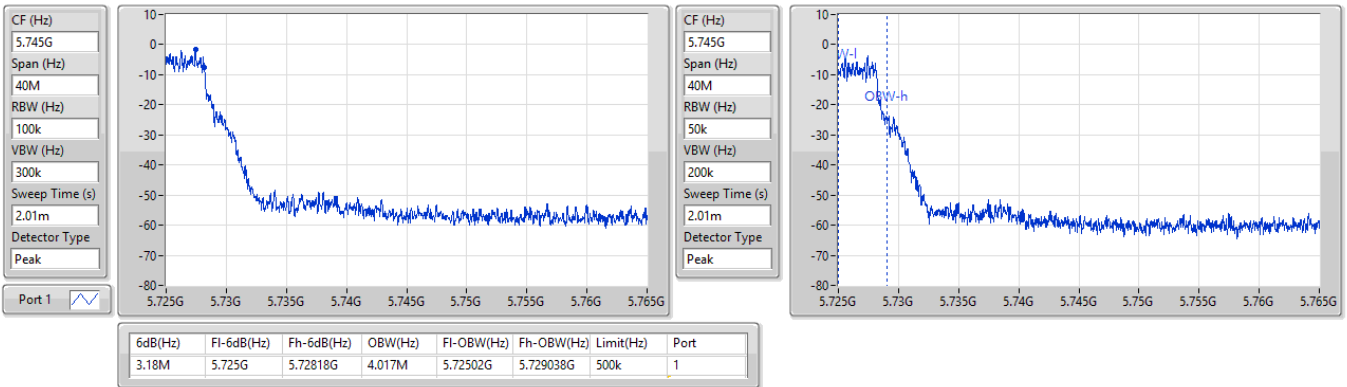


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/05/2026

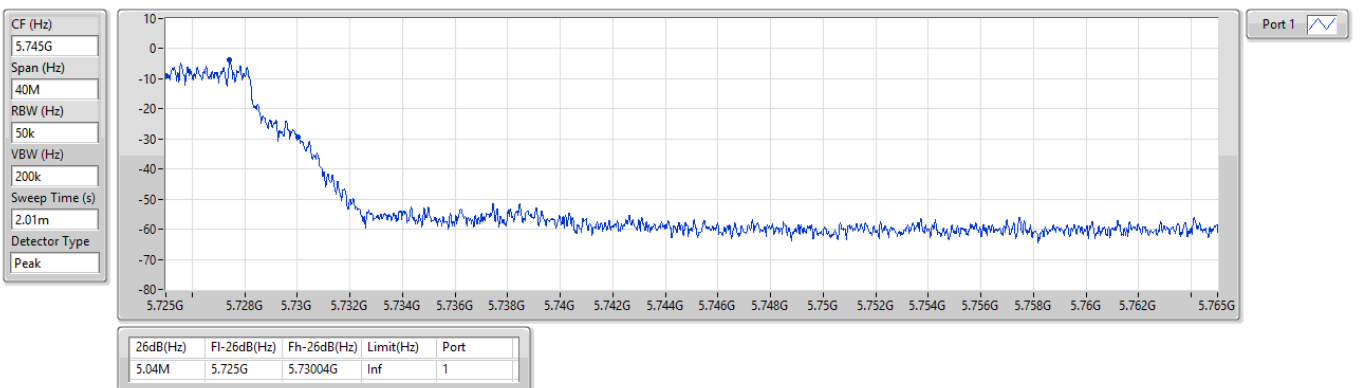


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

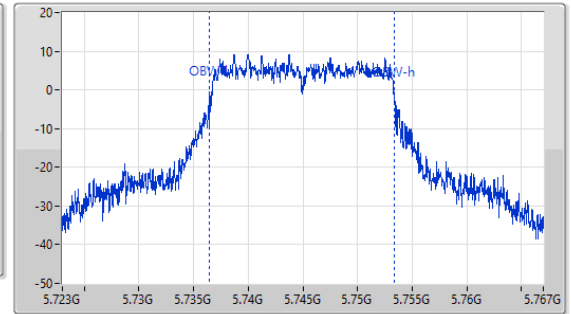
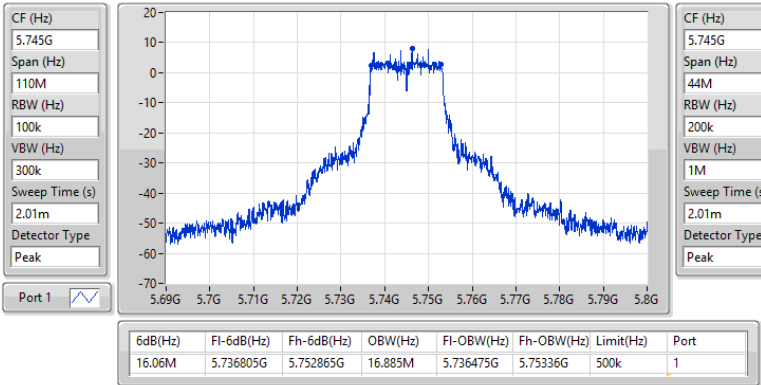
5720MHz Straddle 5.725-5.85GHz

26/05/2026

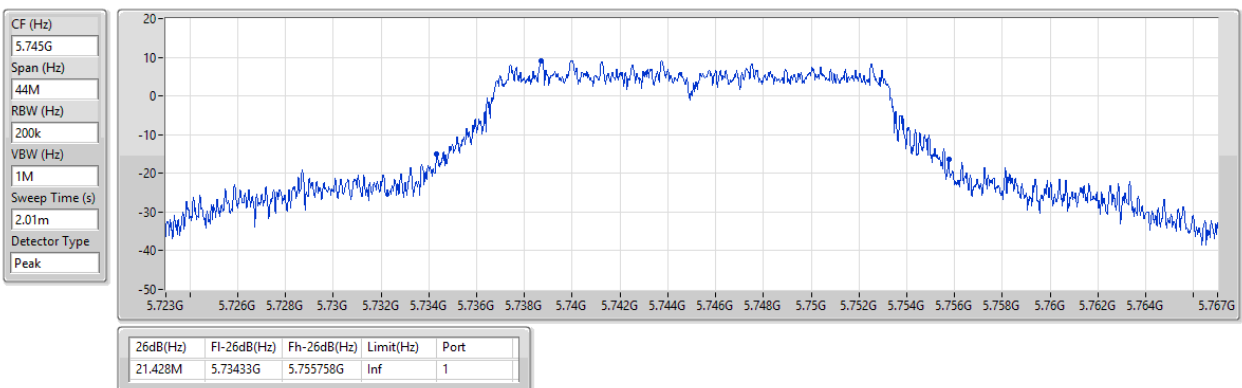


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5745MHz

26/05/2026

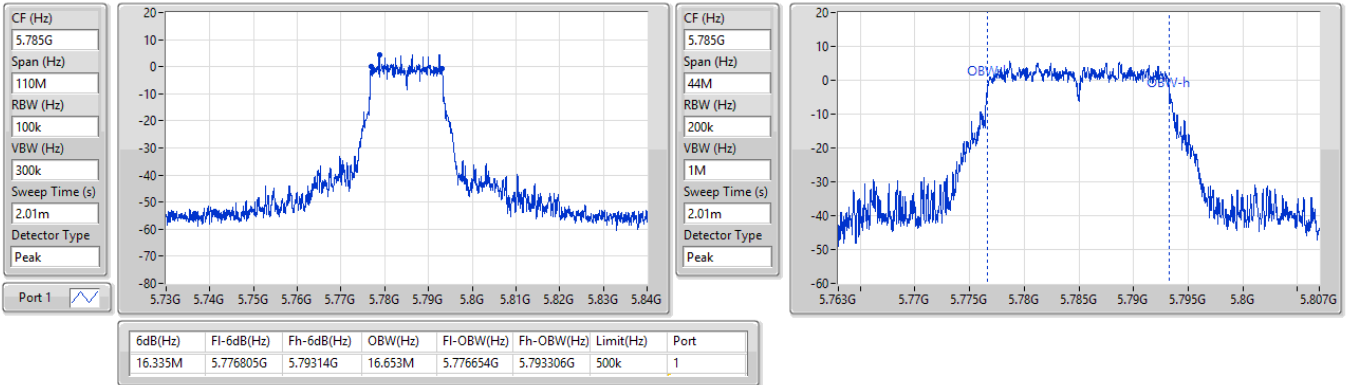

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5745MHz

26/05/2026

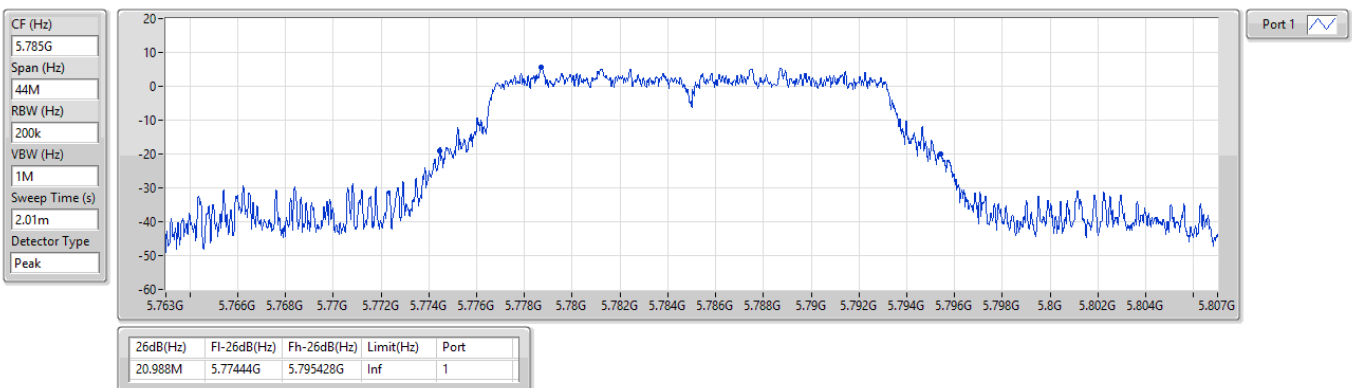


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5785MHz

26/05/2026

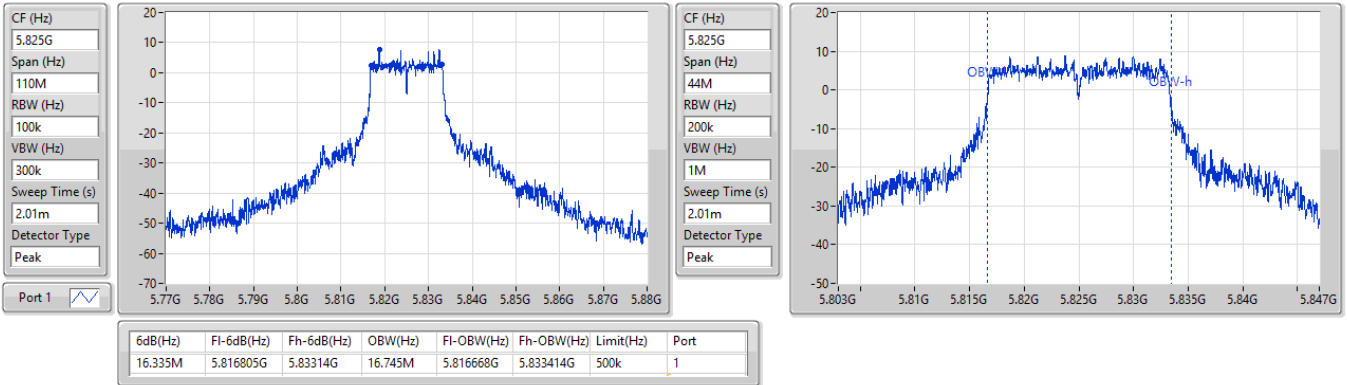

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5785MHz

26/05/2026

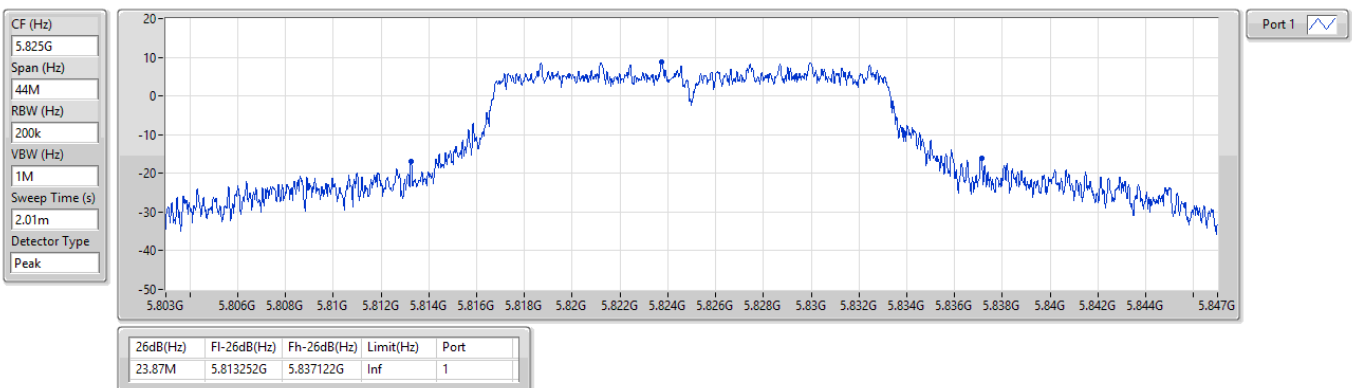


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5825MHz

26/05/2026

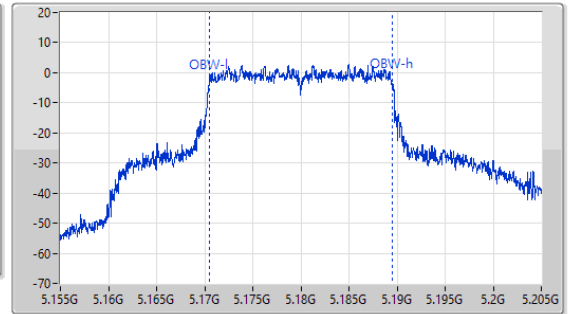
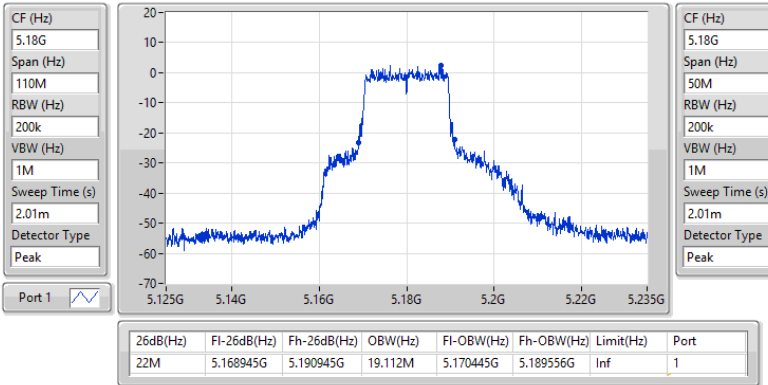

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5825MHz

26/05/2026

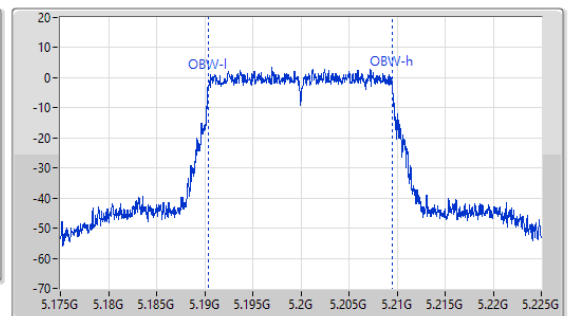
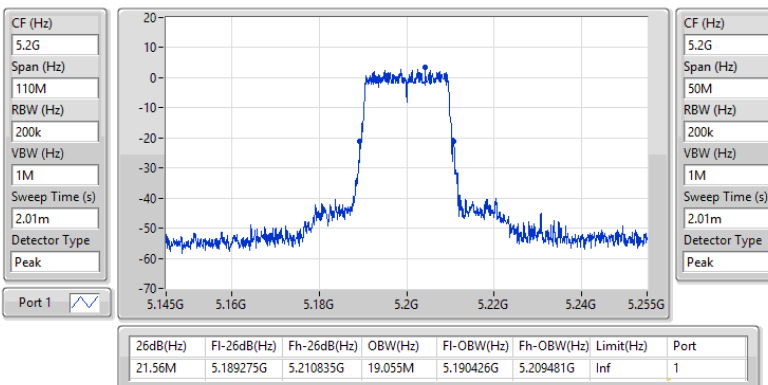


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5180MHz

26/05/2026


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5200MHz

26/05/2026

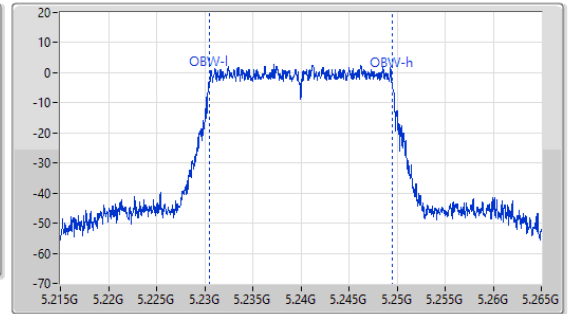
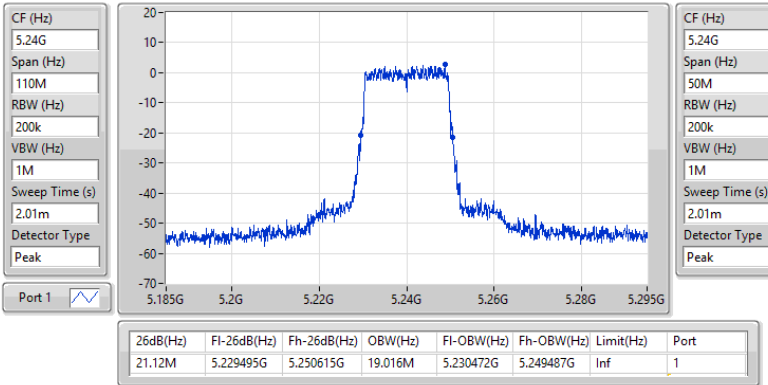


5.15-5.25GHz 802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5240MHz

26/05/2026

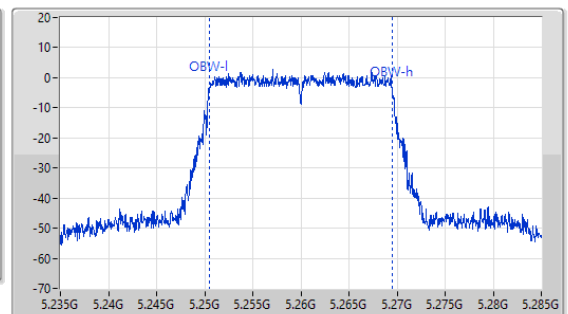
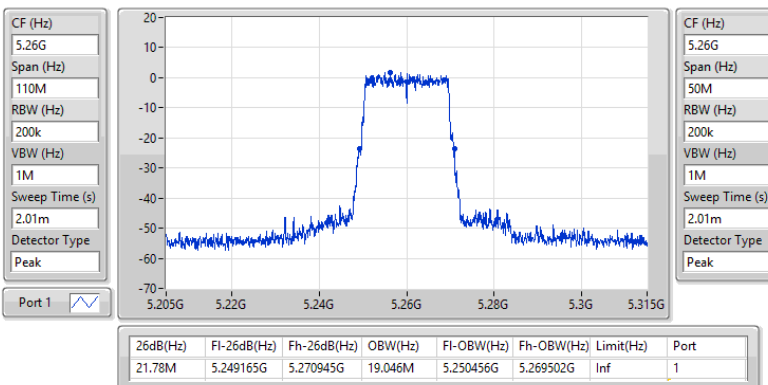


5.25-5.35GHz 802.11be EHT20_Nss1,(MCS0)_1TX

EBW

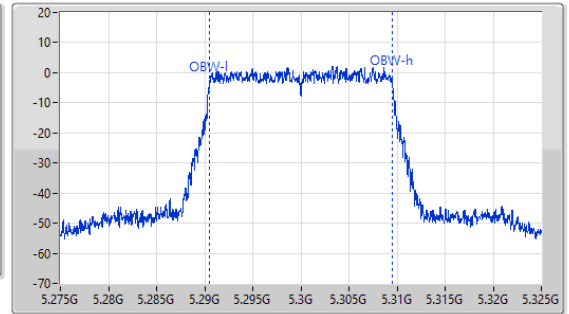
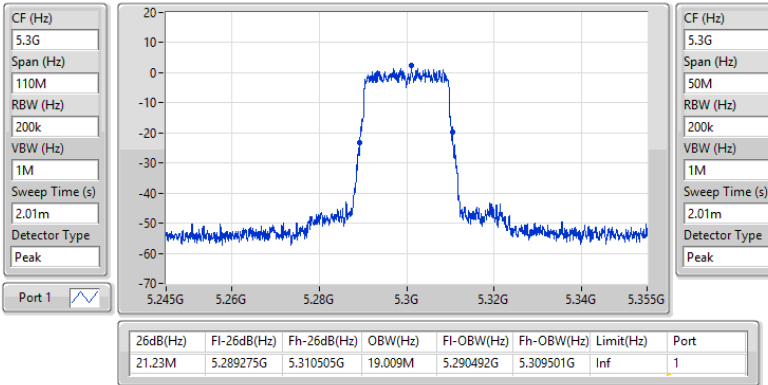
5260MHz

26/05/2026

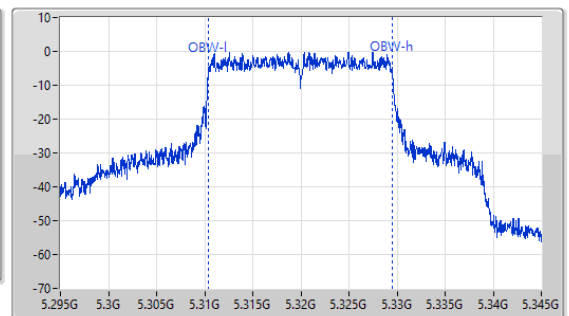
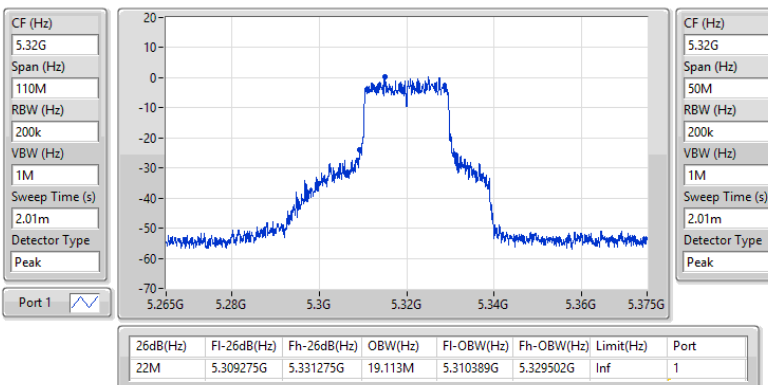


5.25-5.35GHz 802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5300MHz

26/05/2026

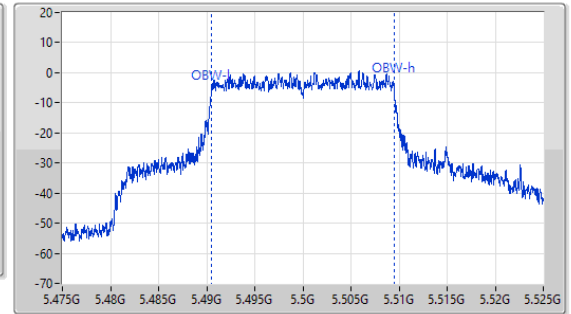
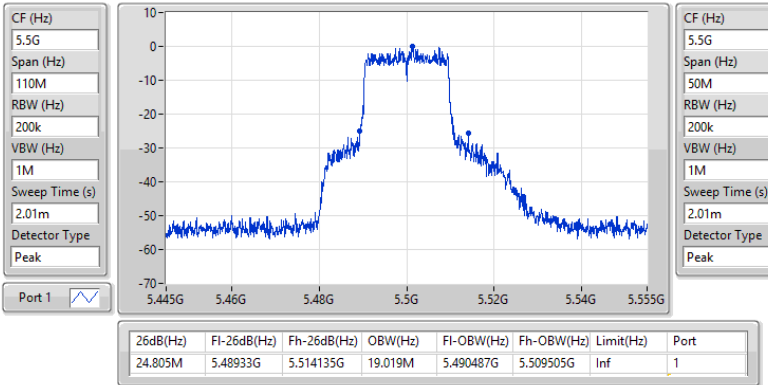

5.25-5.35GHz 802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5320MHz

26/05/2026

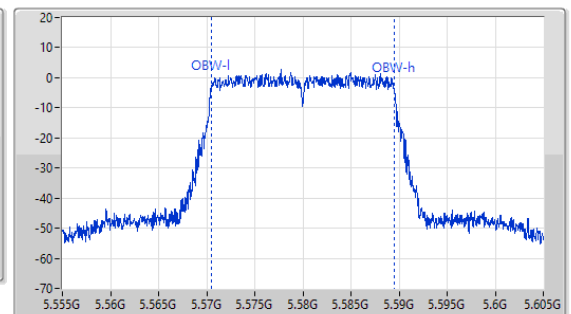
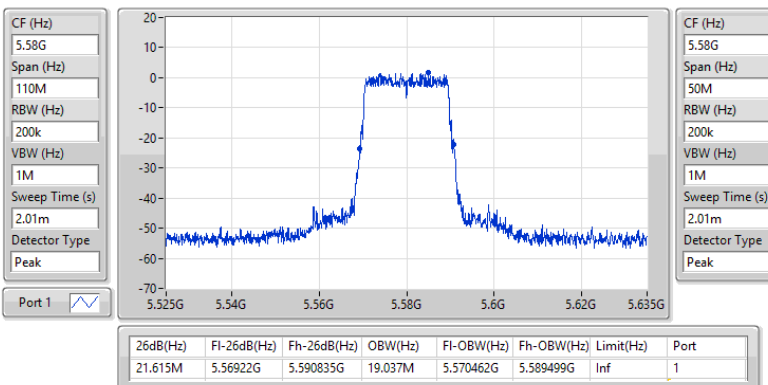


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5500MHz

26/05/2026

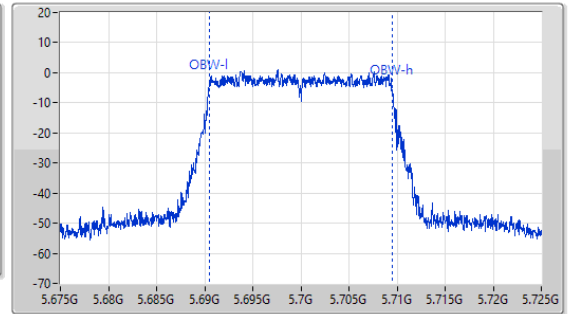
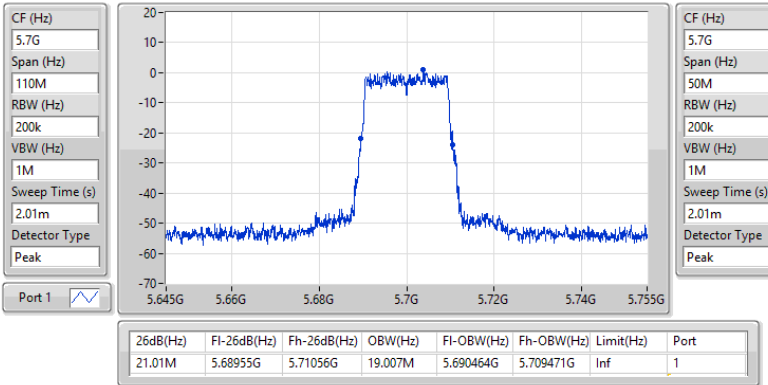

5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5580MHz

26/05/2026

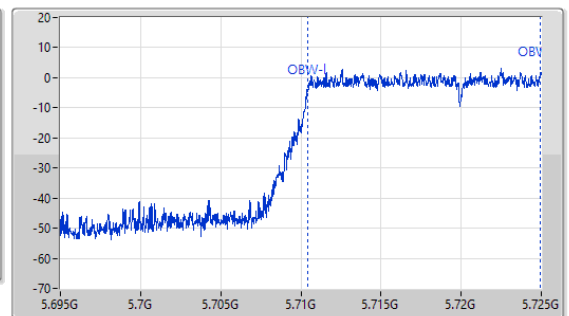
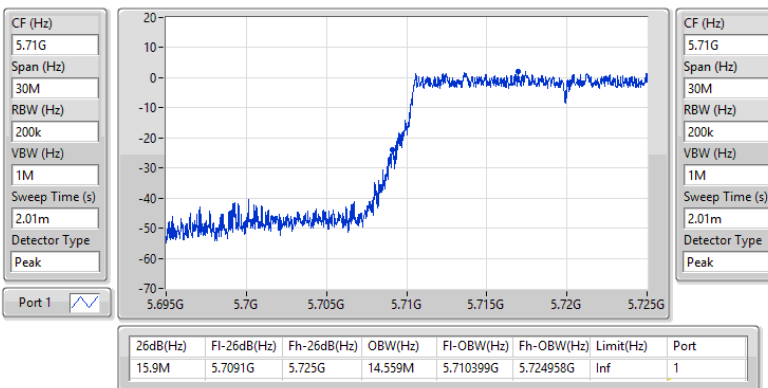


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5700MHz

26/05/2026

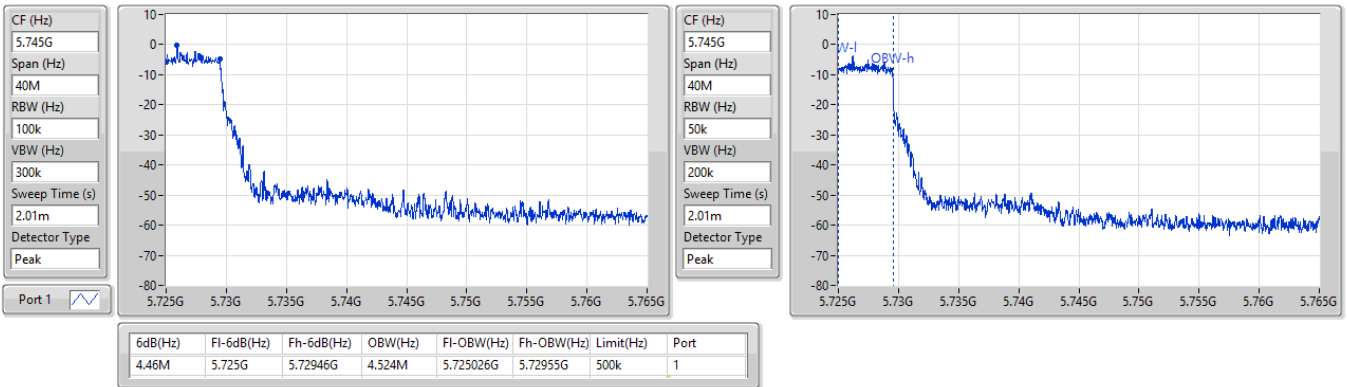

5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/05/2026

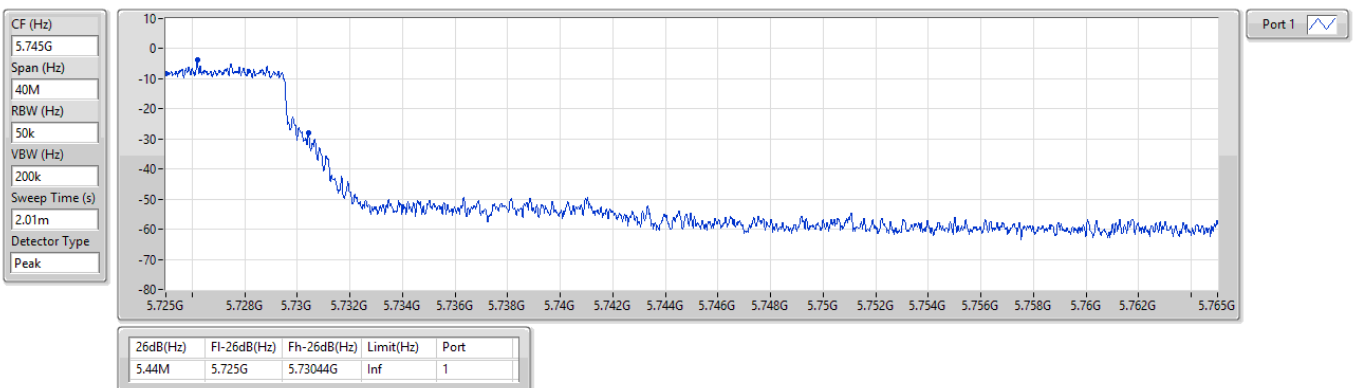


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/05/2026

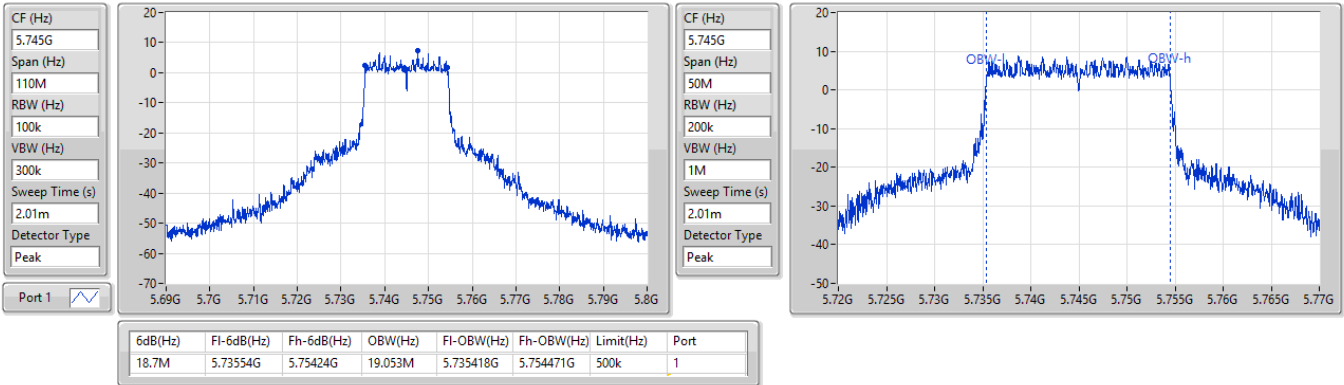

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/05/2026

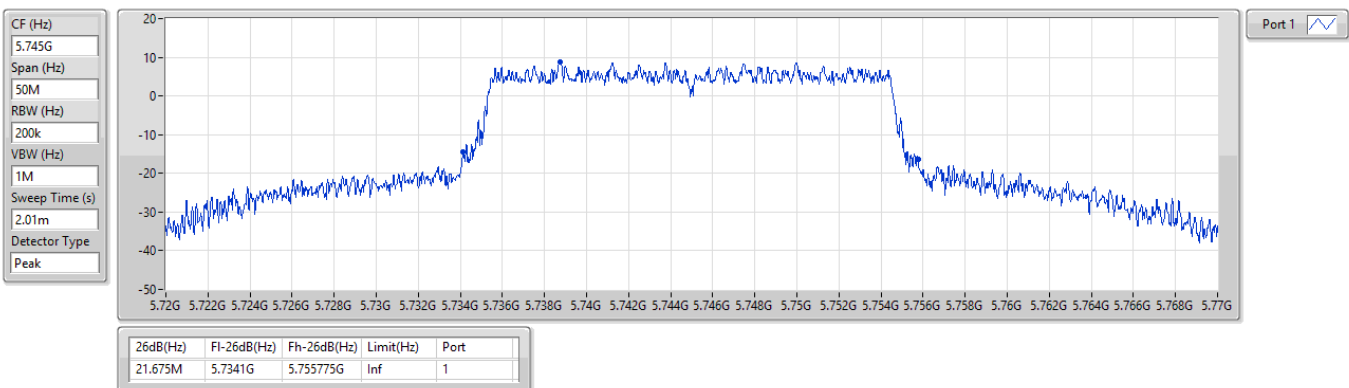


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5745MHz

26/05/2026

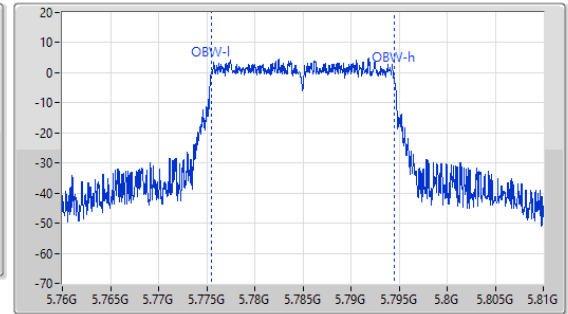
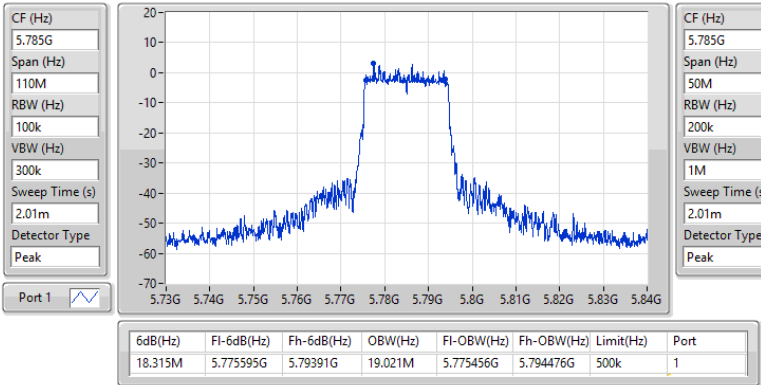

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5745MHz

26/05/2026

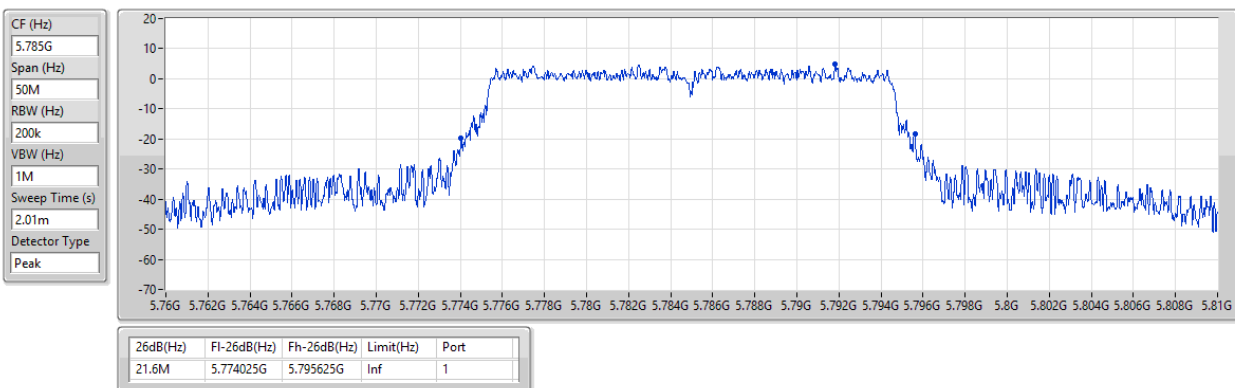


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5785MHz

26/05/2026

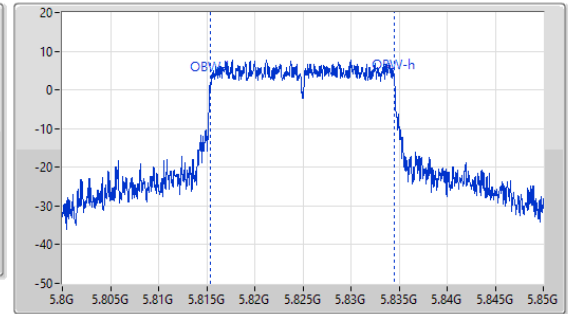
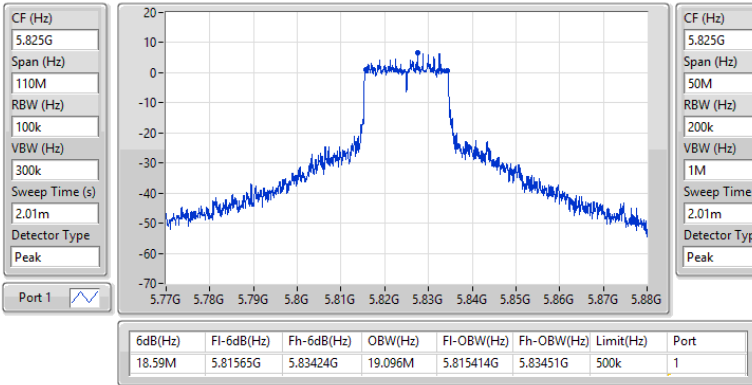

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5785MHz

26/05/2026

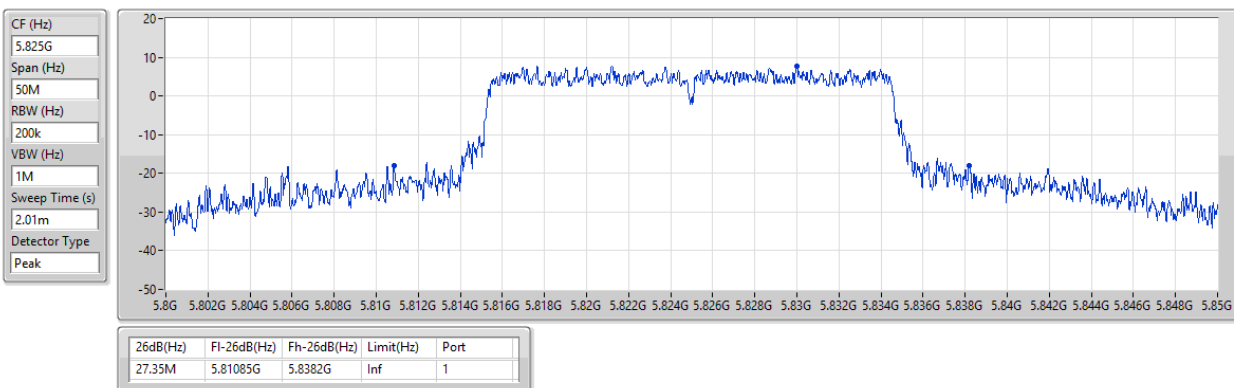


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5825MHz

26/05/2026

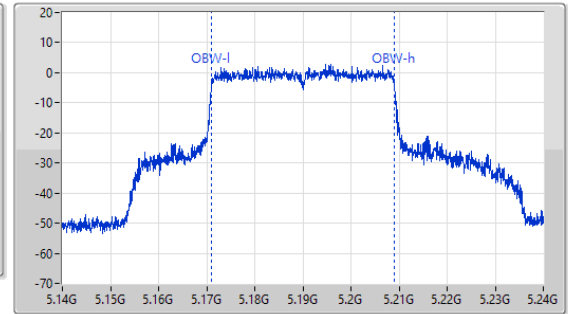
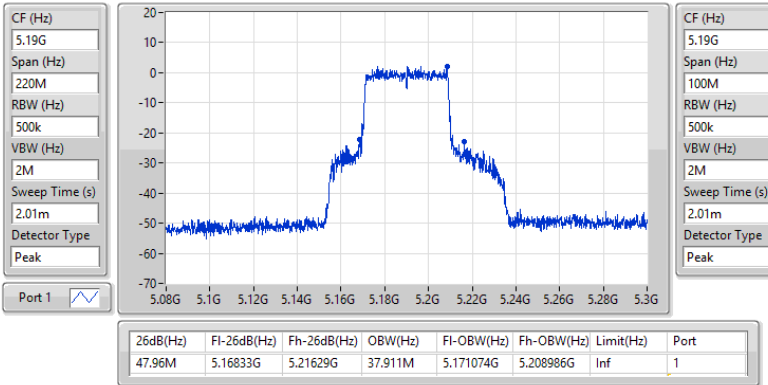

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
5825MHz

26/05/2026

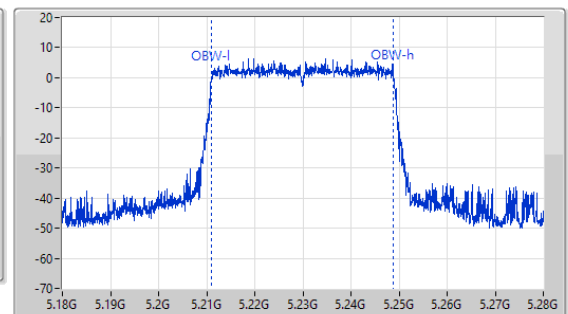
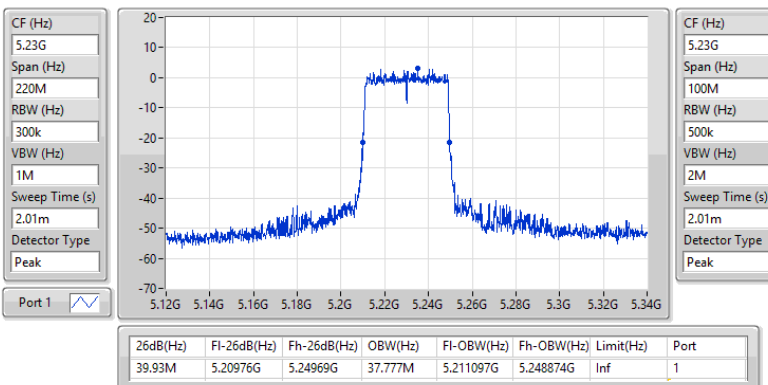


5.15-5.25GHz 802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5190MHz

26/05/2026

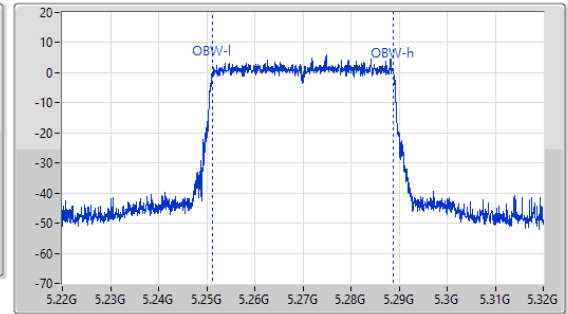
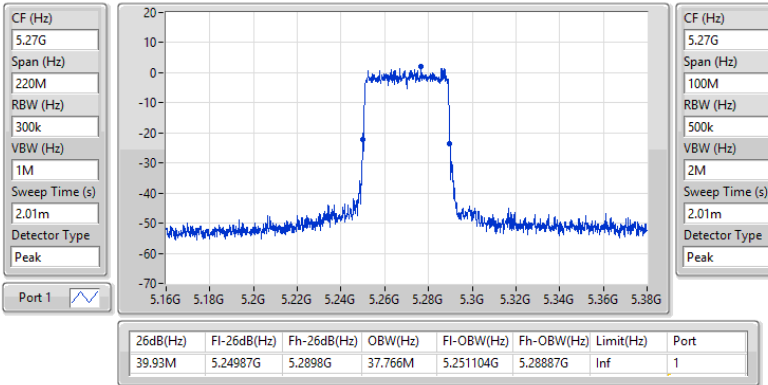

5.15-5.25GHz 802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5230MHz

26/05/2026

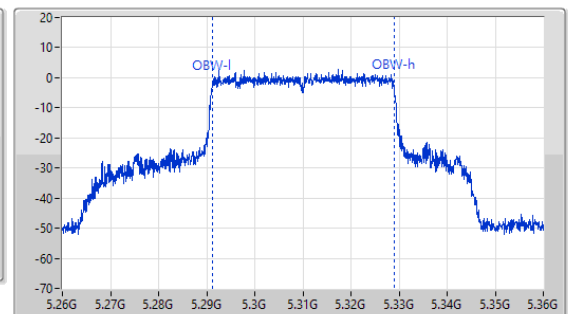
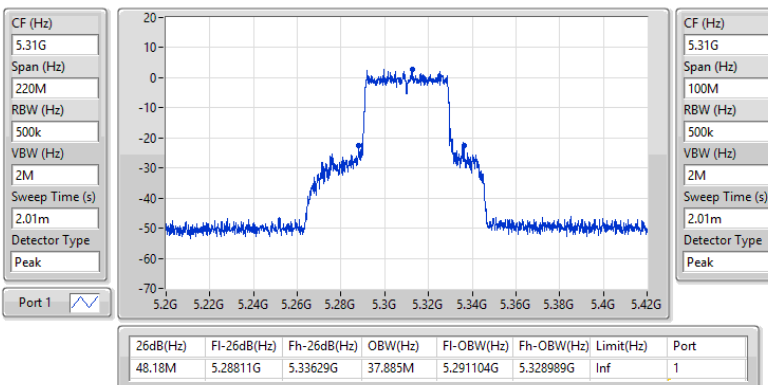


5.25-5.35GHz 802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5270MHz

26/05/2026

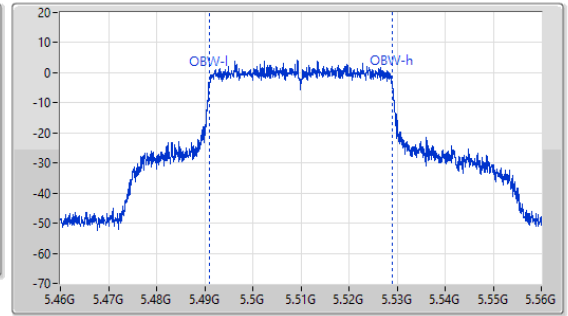
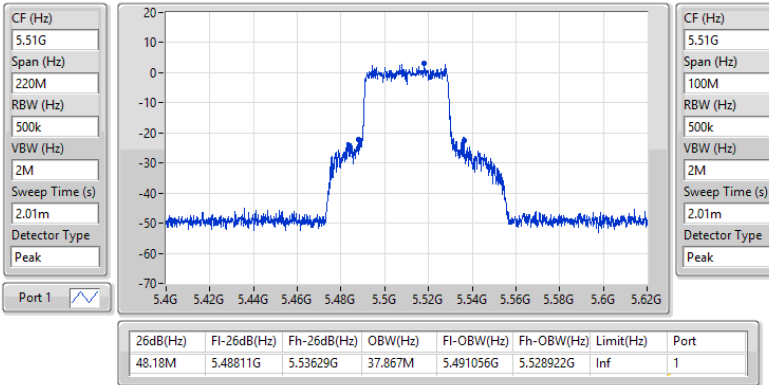

5.25-5.35GHz 802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5310MHz

26/05/2026

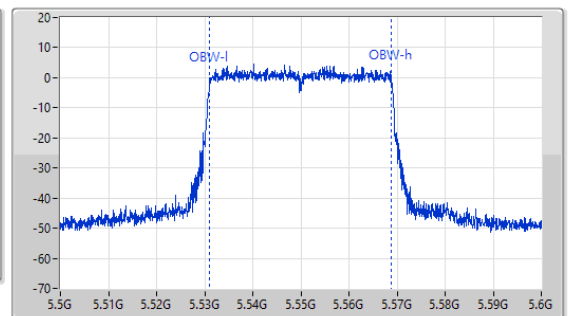
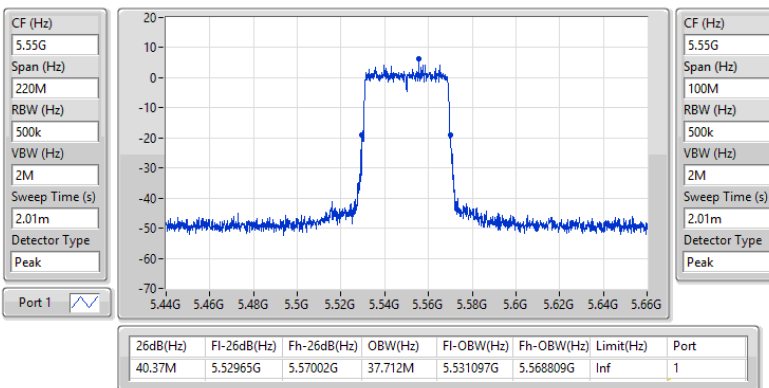


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5510MHz

26/05/2026

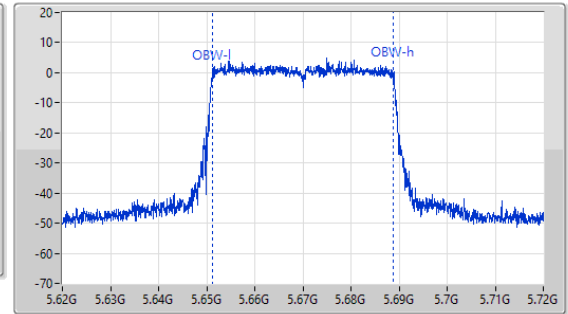
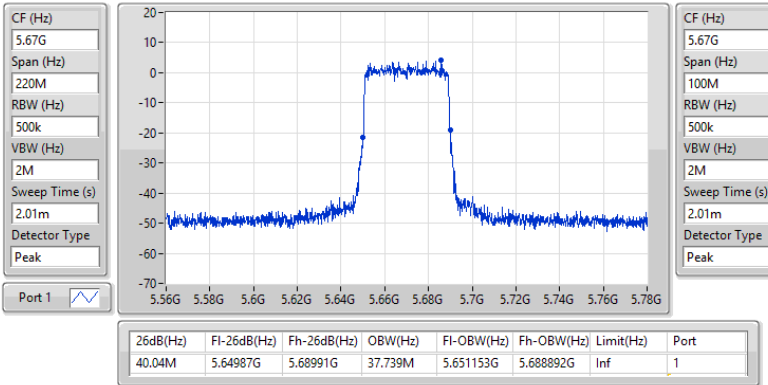

5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5550MHz

26/05/2026

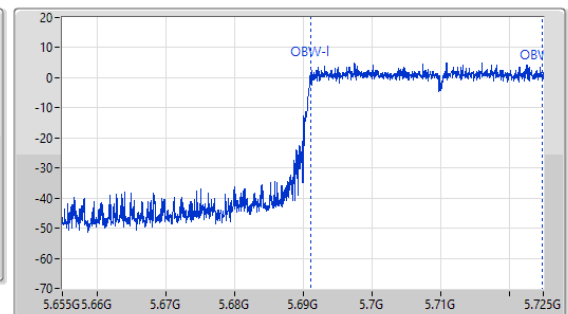
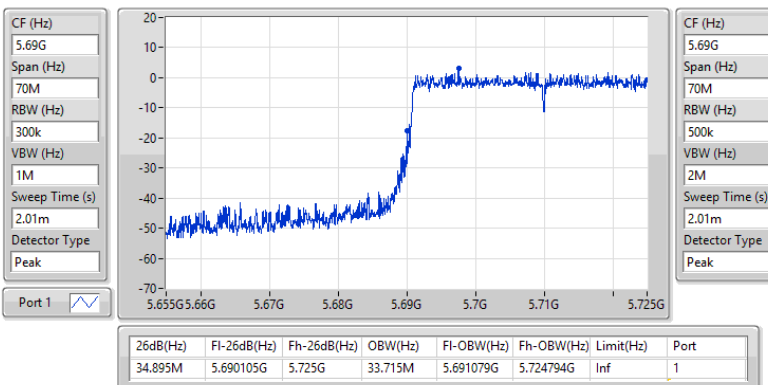


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5670MHz

26/05/2026

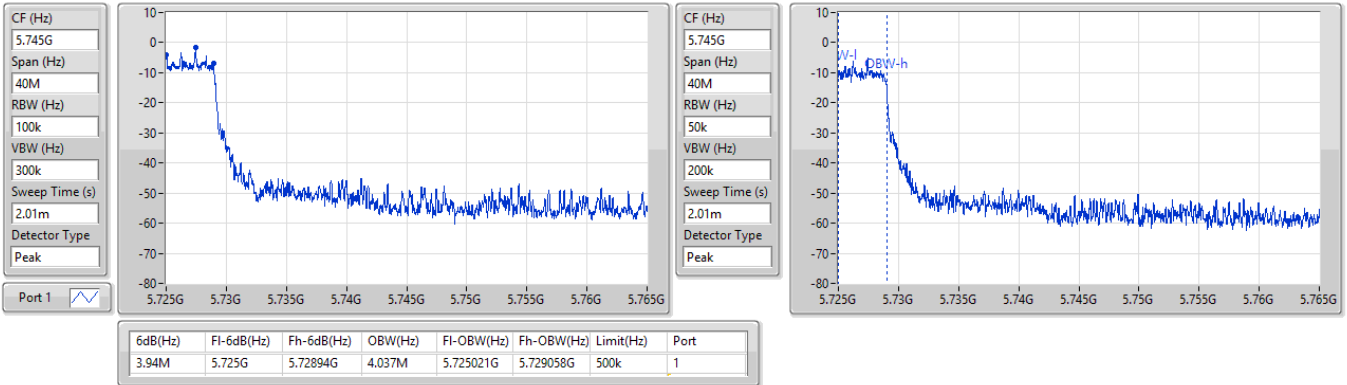

5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

26/05/2026

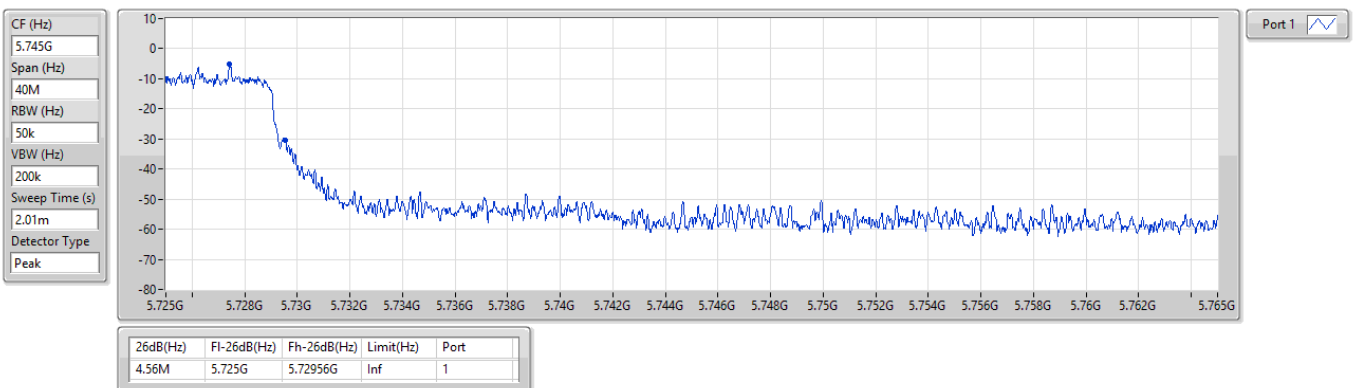


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

26/05/2026

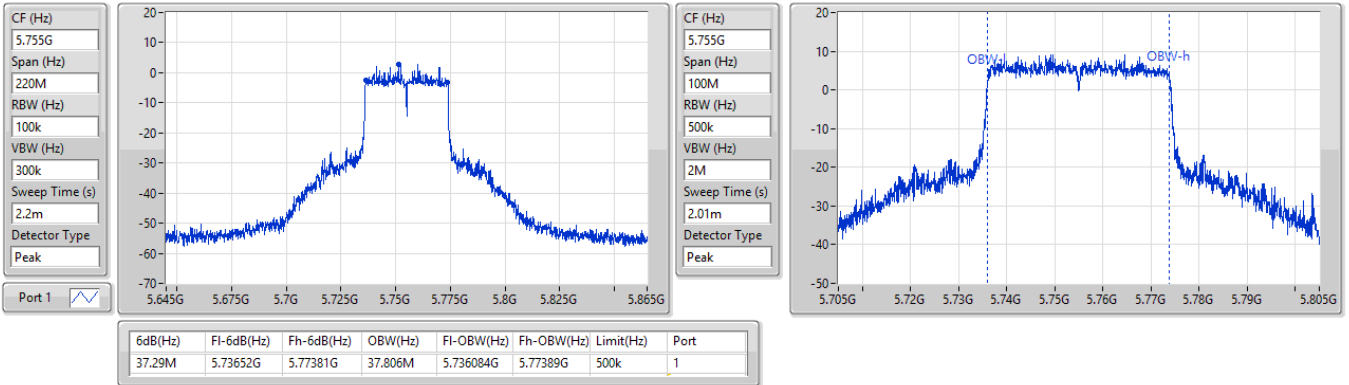

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

26/05/2026

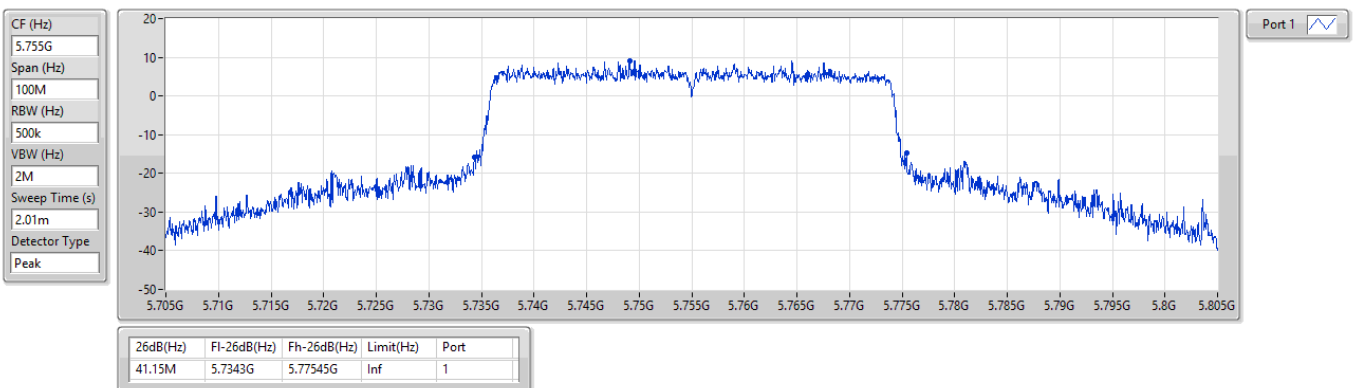


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5755MHz

26/05/2026

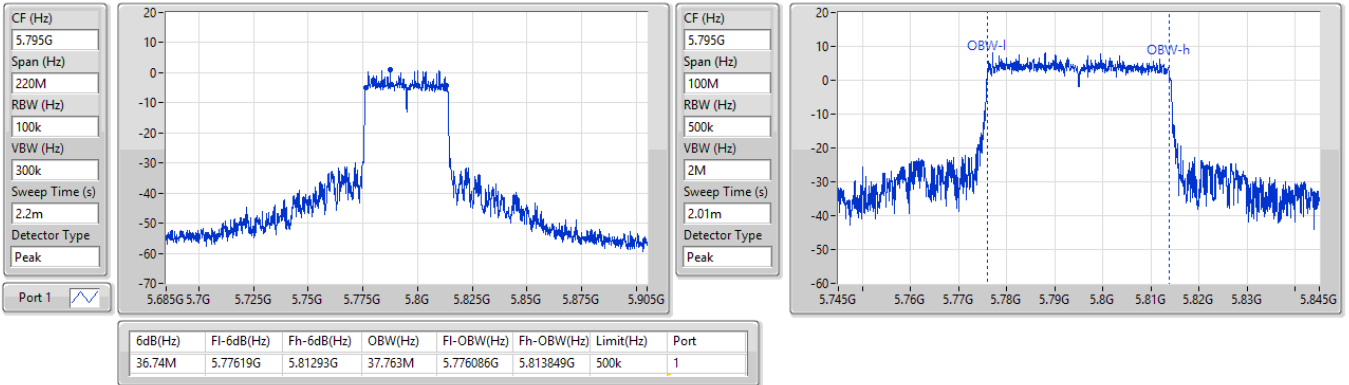

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5755MHz

26/05/2026

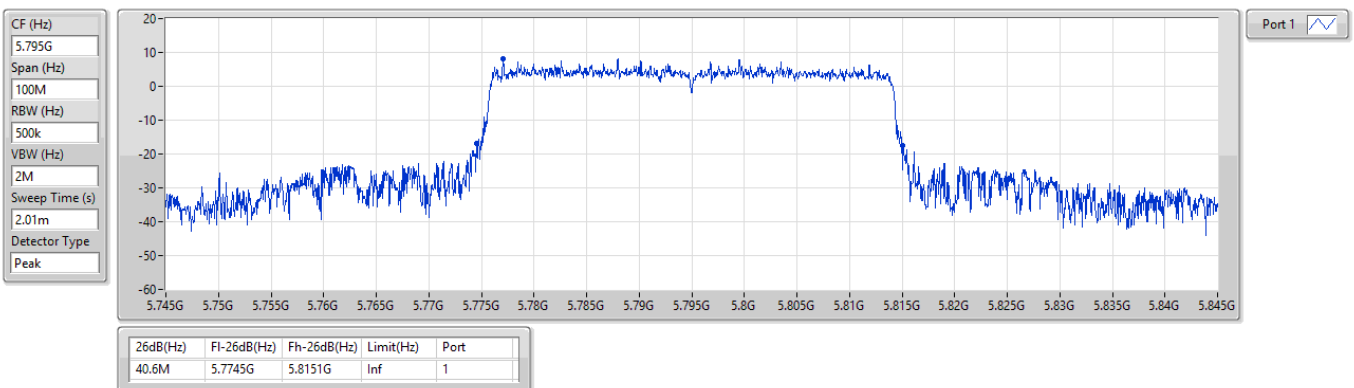


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5795MHz

26/05/2026

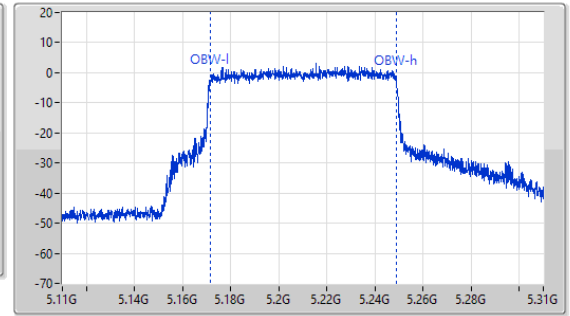
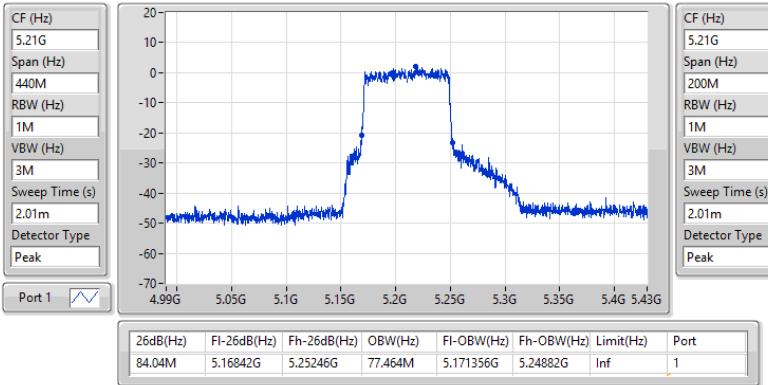

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_1TX
EBW
5795MHz

26/05/2026

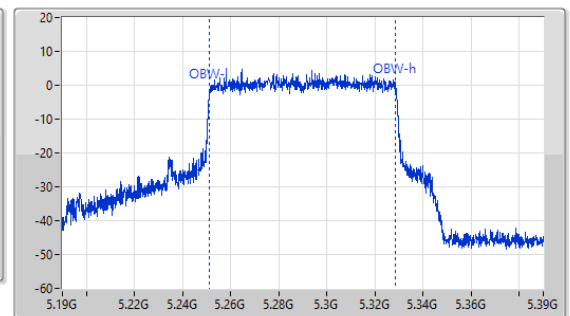
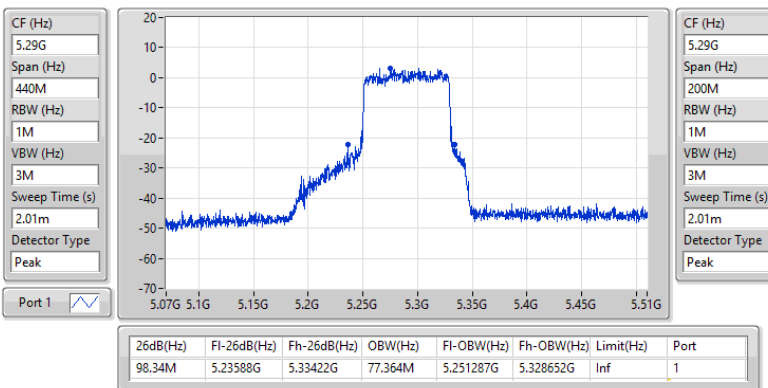


5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_1TX
EBW
5210MHz

26/05/2026


5.25-5.35GHz_802.11be EHT80_Nss1,(MCS0)_1TX
EBW
5290MHz

26/05/2026

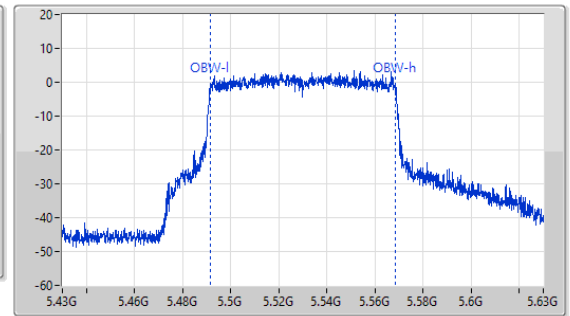
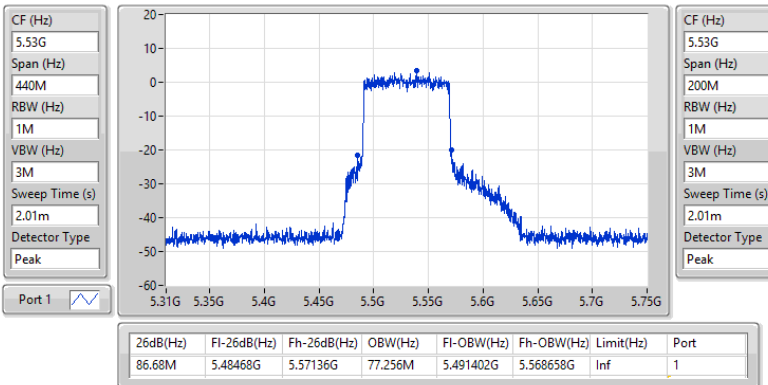


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5530MHz

26/05/2026

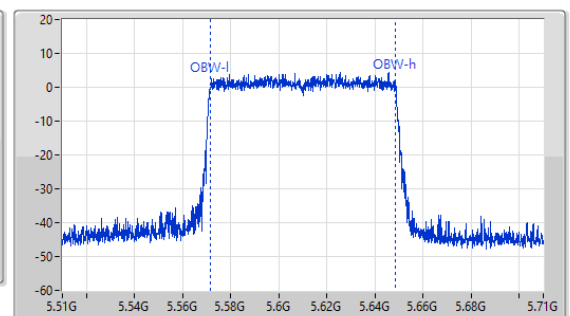
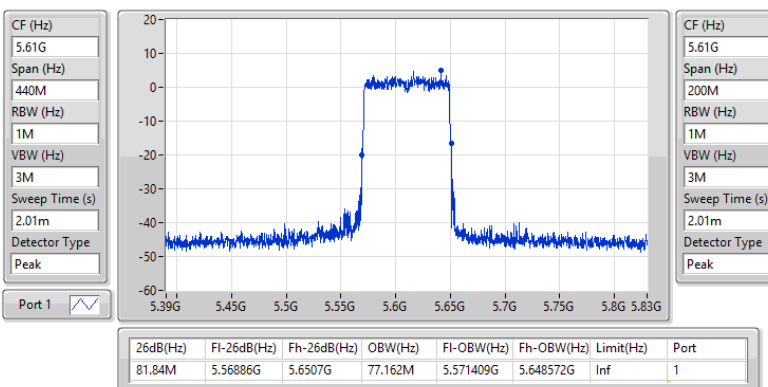


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5610MHz

26/05/2026

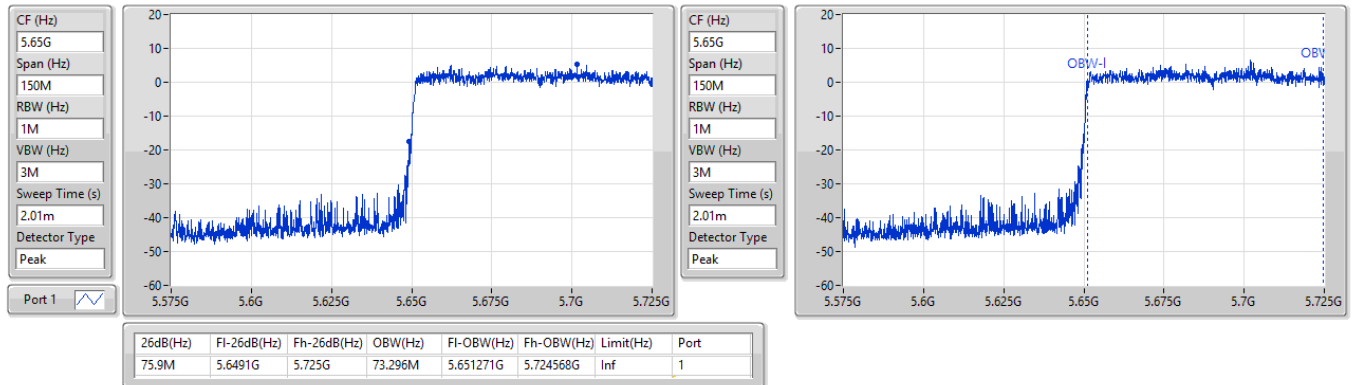


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.47-5.725GHz

26/05/2026

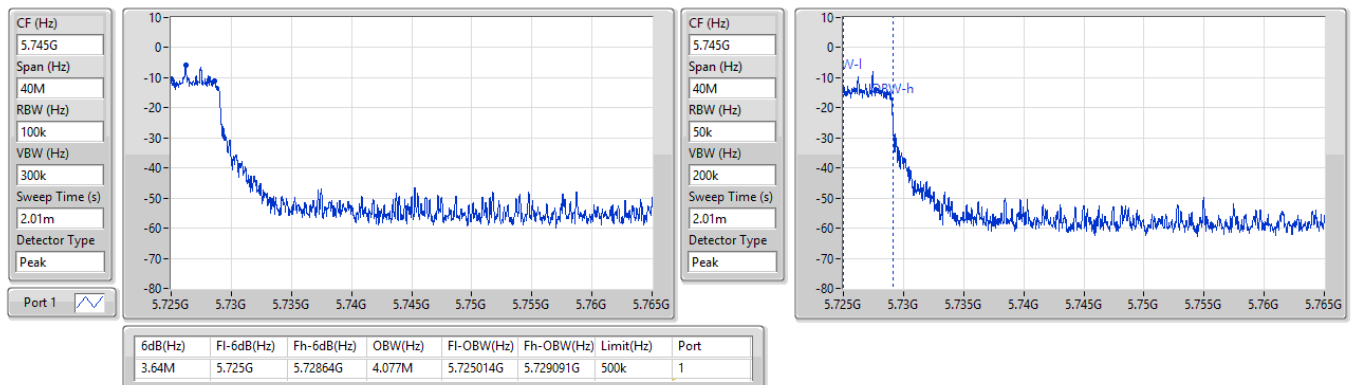


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

26/05/2026

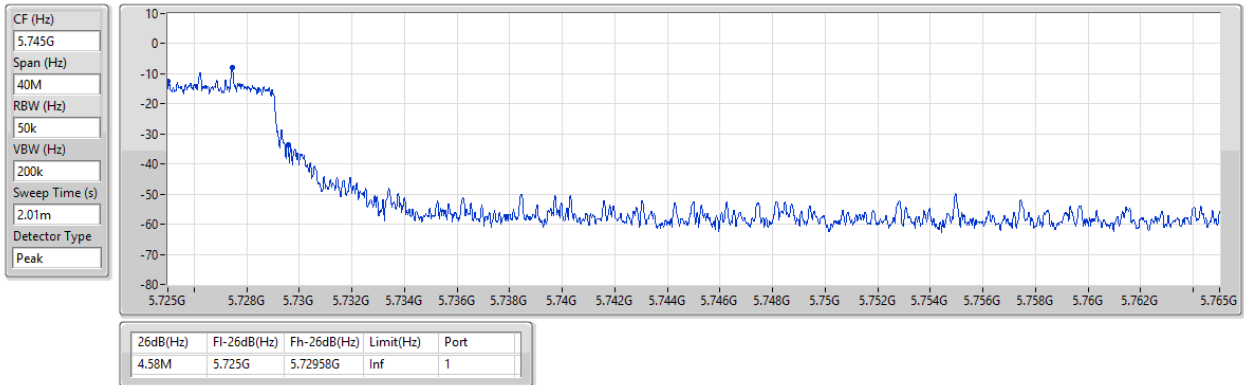


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

26/05/2026

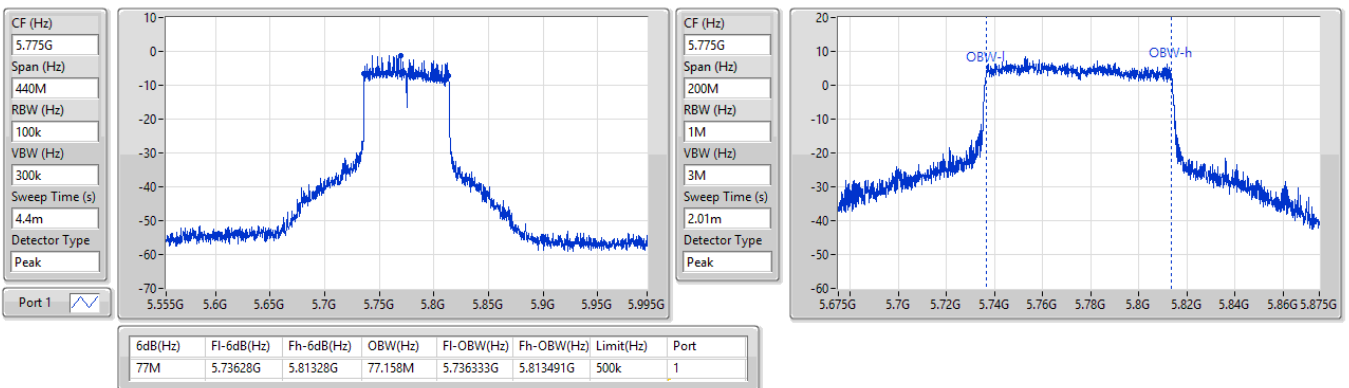


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

26/05/2026

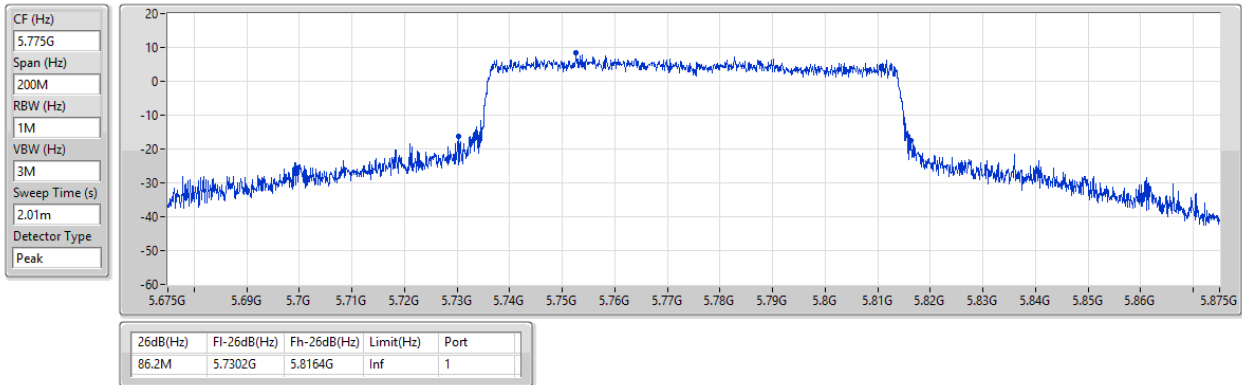


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

26/05/2026

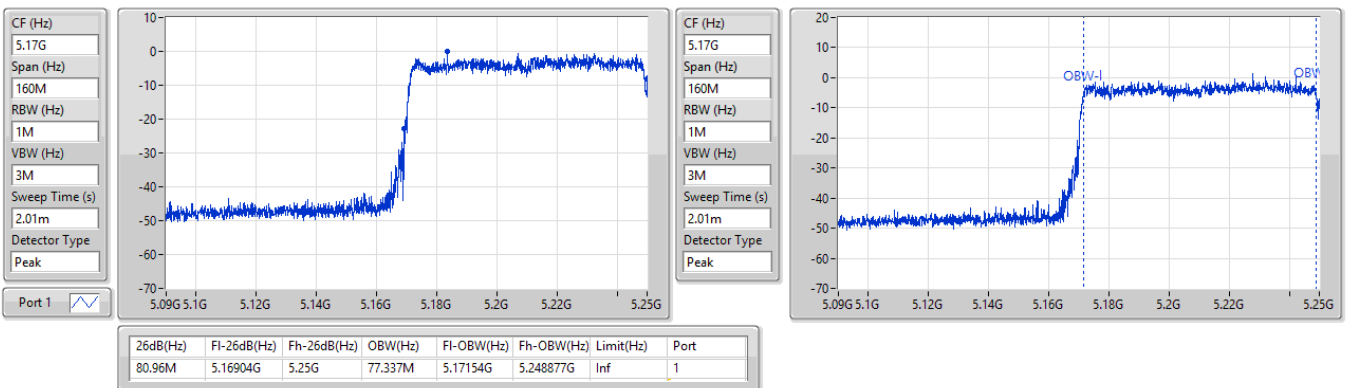


5.15-5.25GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

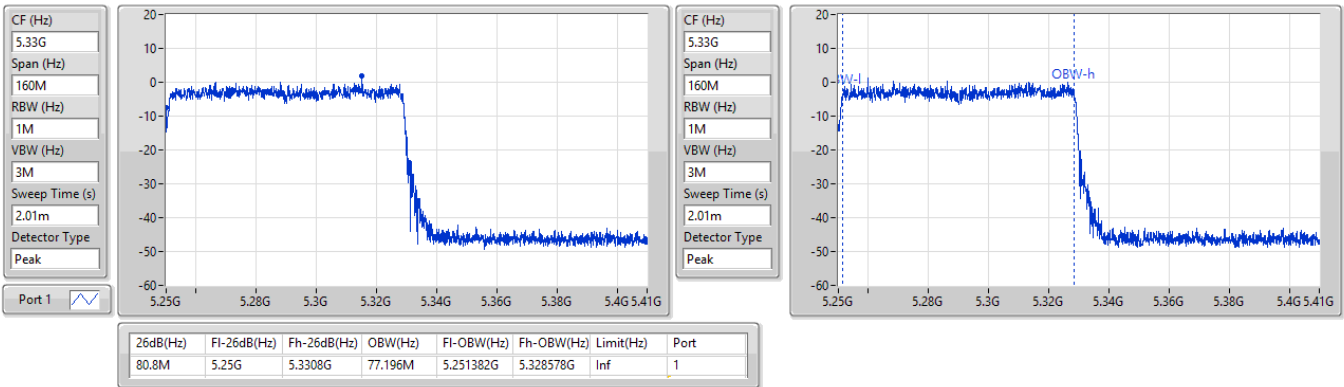
5250MHz Straddle 5.15-5.25GHz

26/05/2026

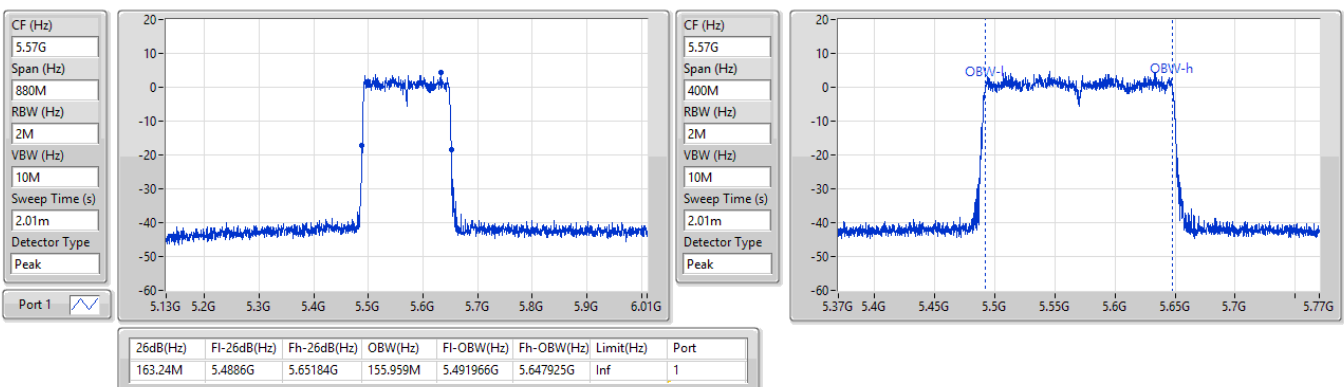


5.25-5.35GHz 802.11be EHT160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.25-5.35GHz

26/05/2026

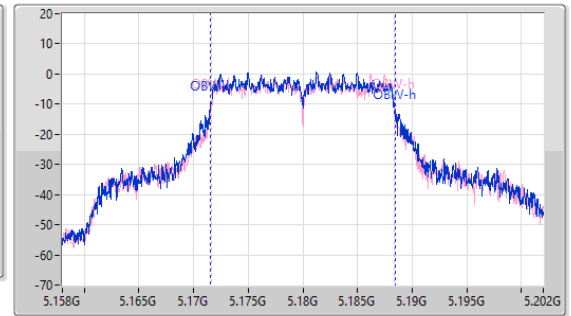
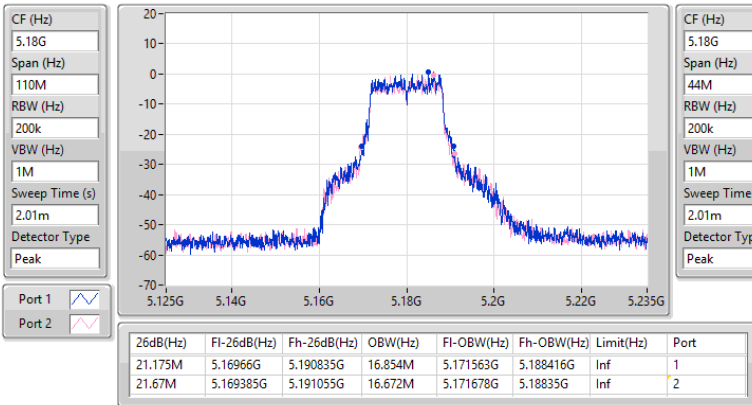

5.47-5.725GHz 802.11be EHT160_Nss1,(MCS0)_1TX
EBW
5570MHz

26/05/2026

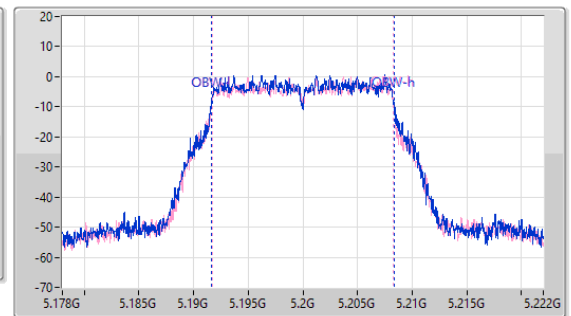
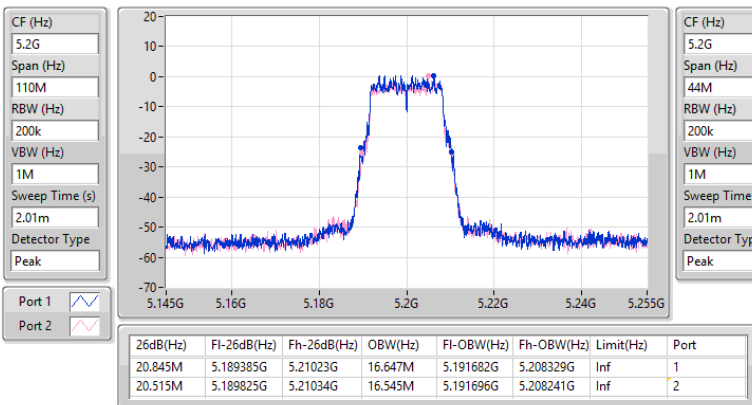


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

26/05/2026

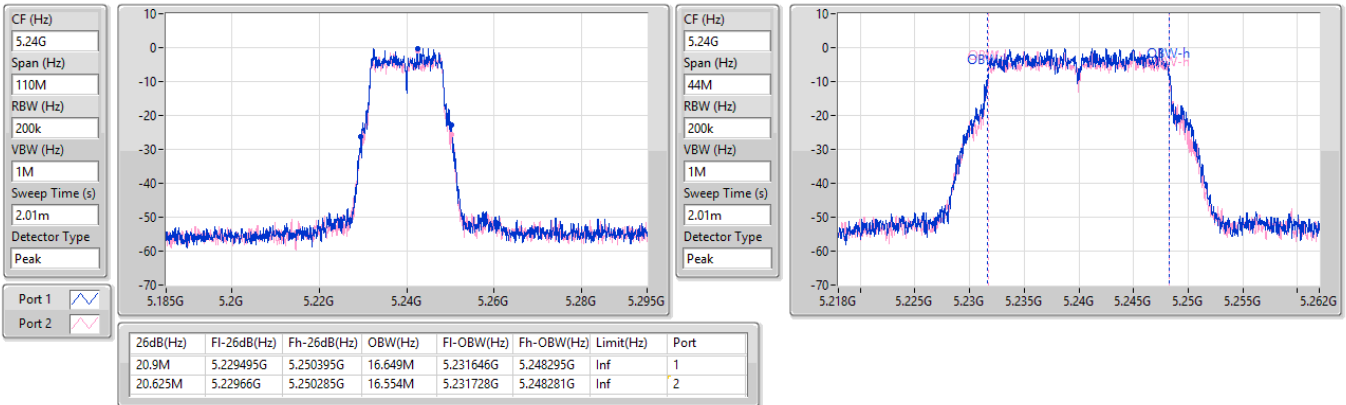

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

26/05/2026

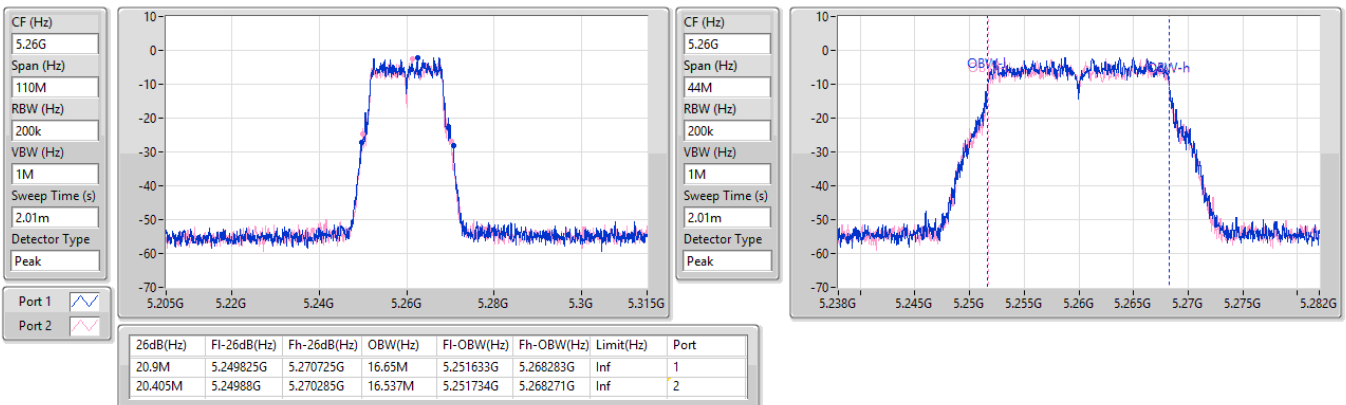


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

26/05/2026

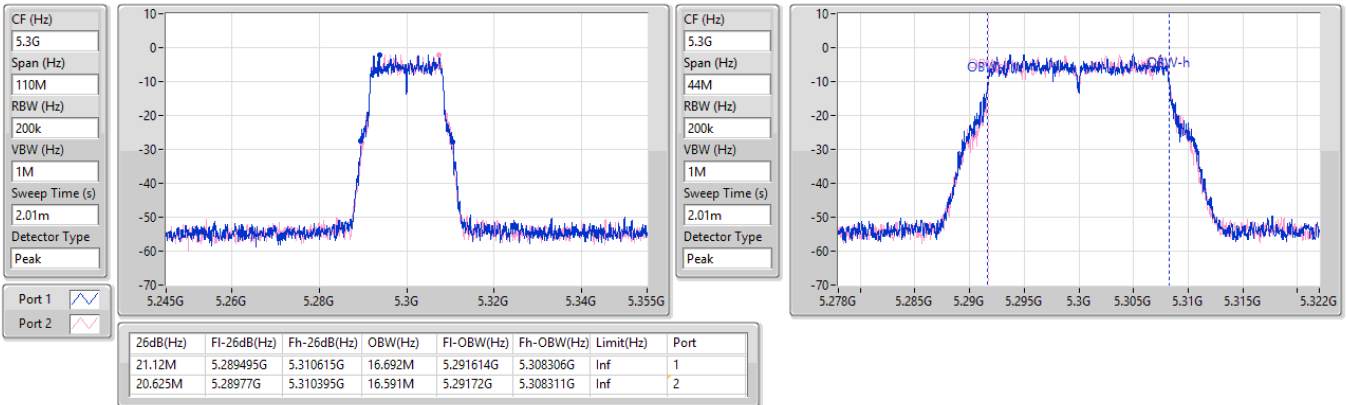

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

26/05/2026

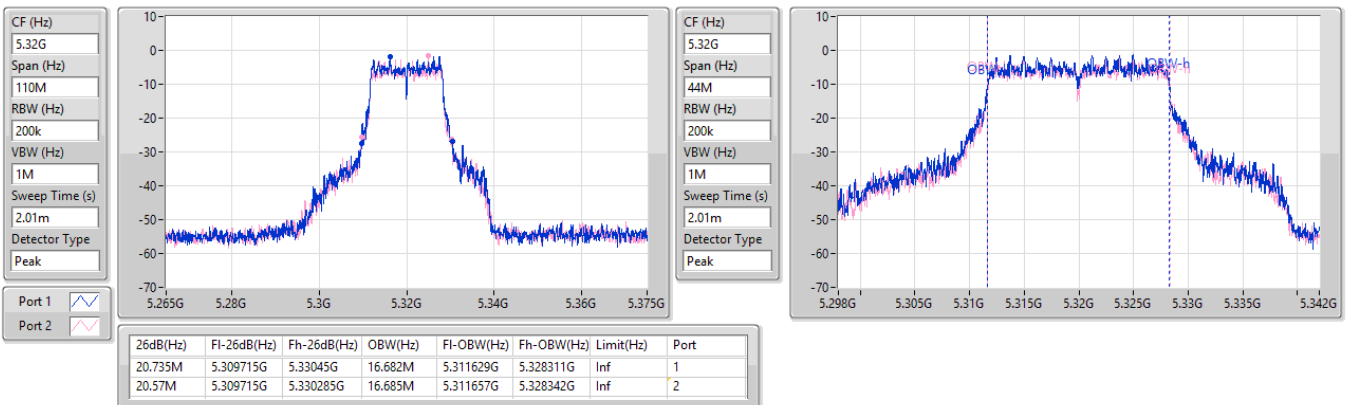


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

26/05/2026

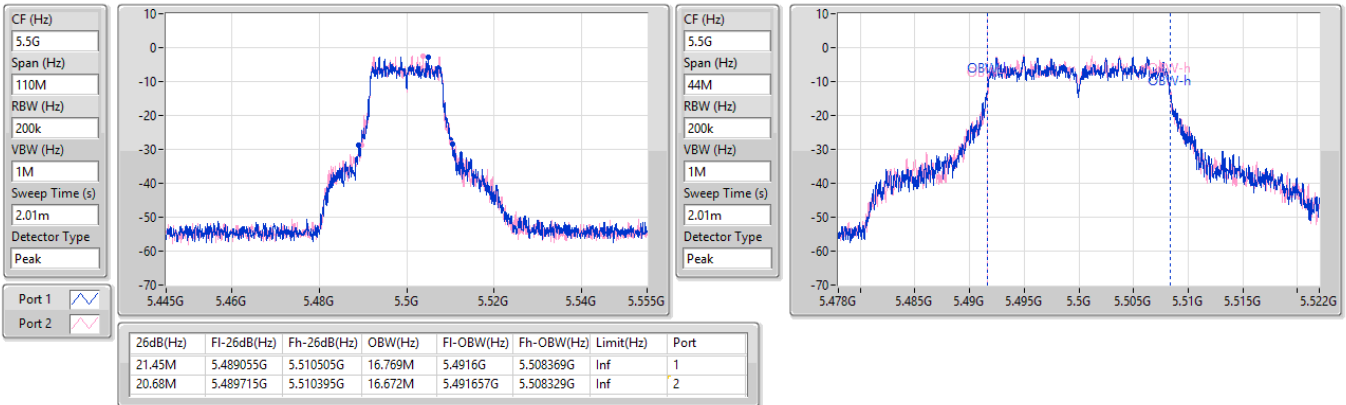

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

26/05/2026

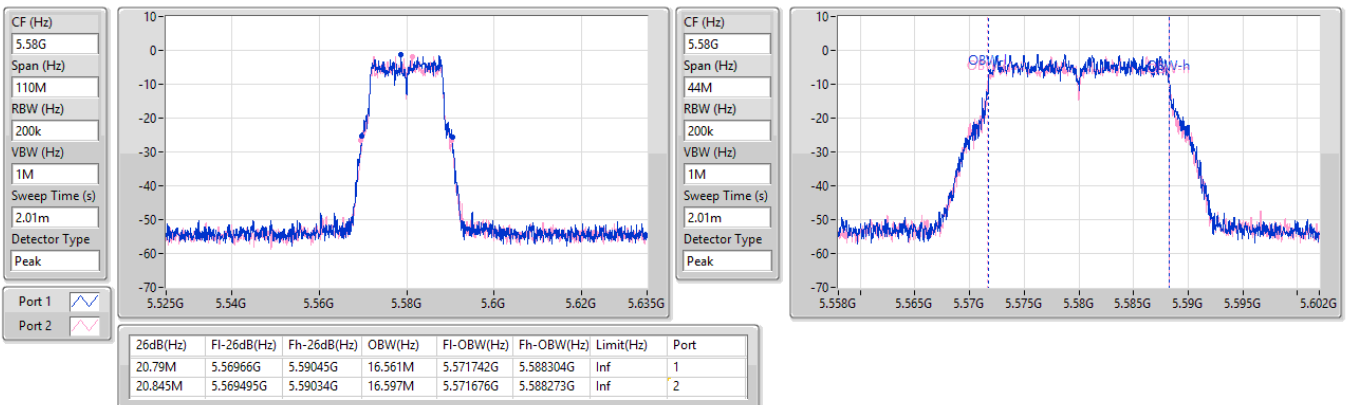


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

26/05/2026

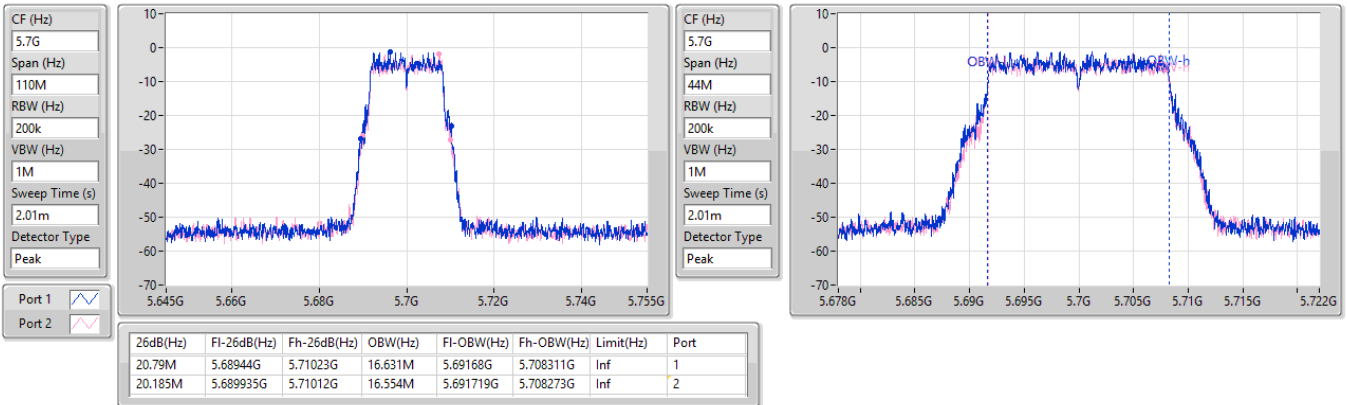

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

26/05/2026

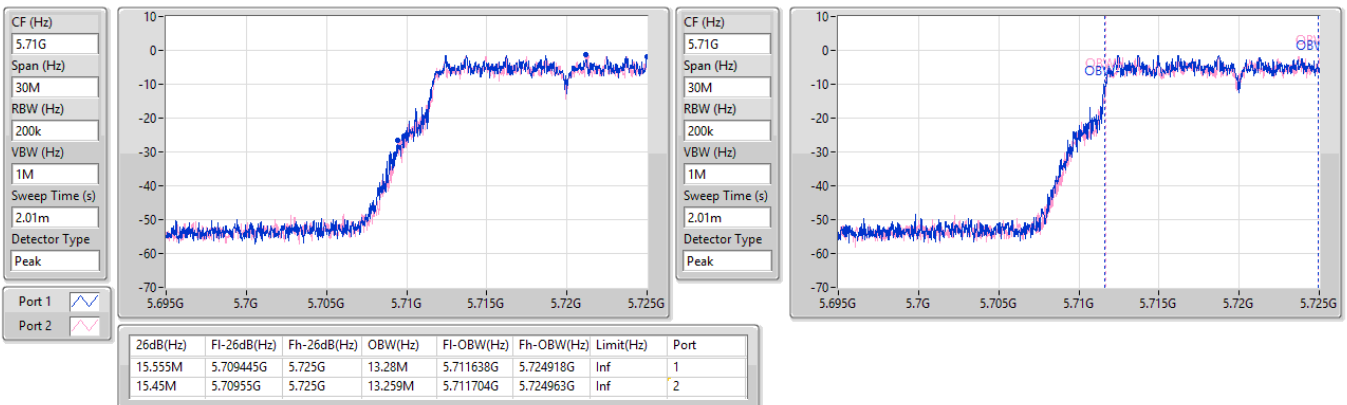


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

26/05/2026

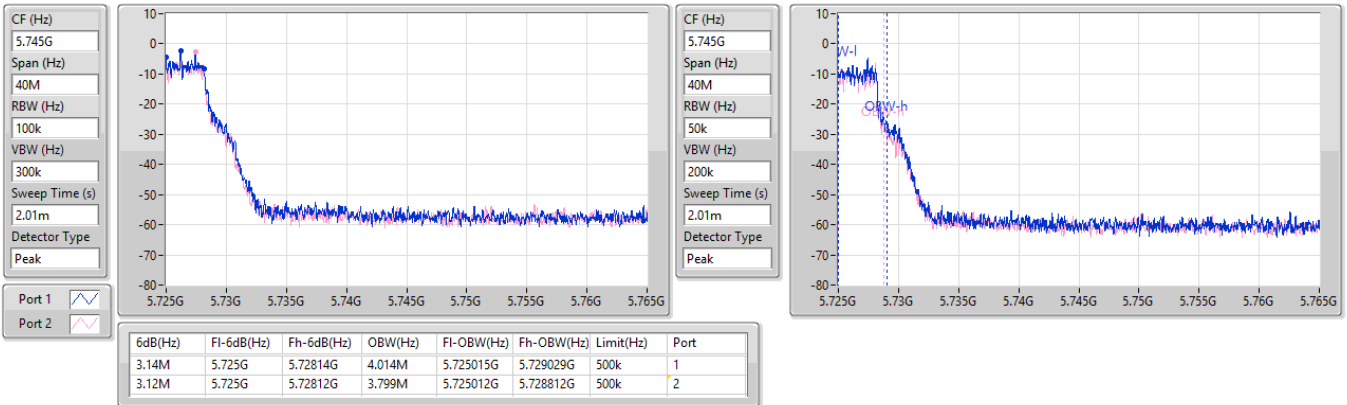

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/05/2026

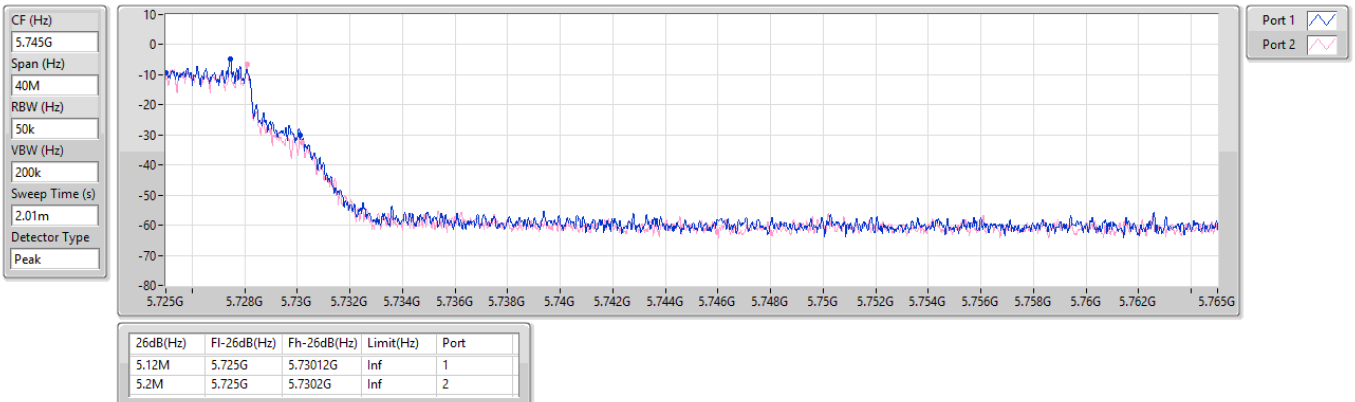


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/05/2026

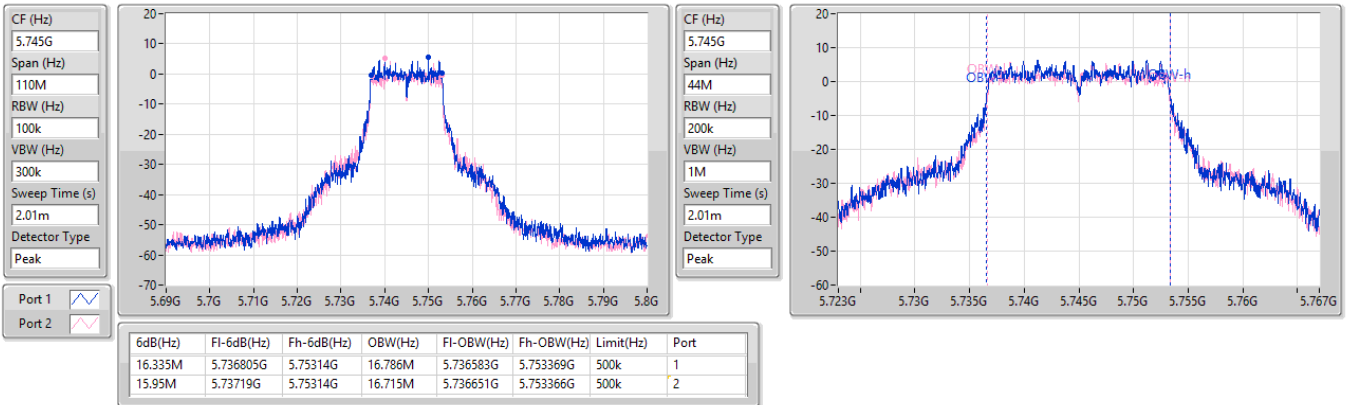

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/05/2026

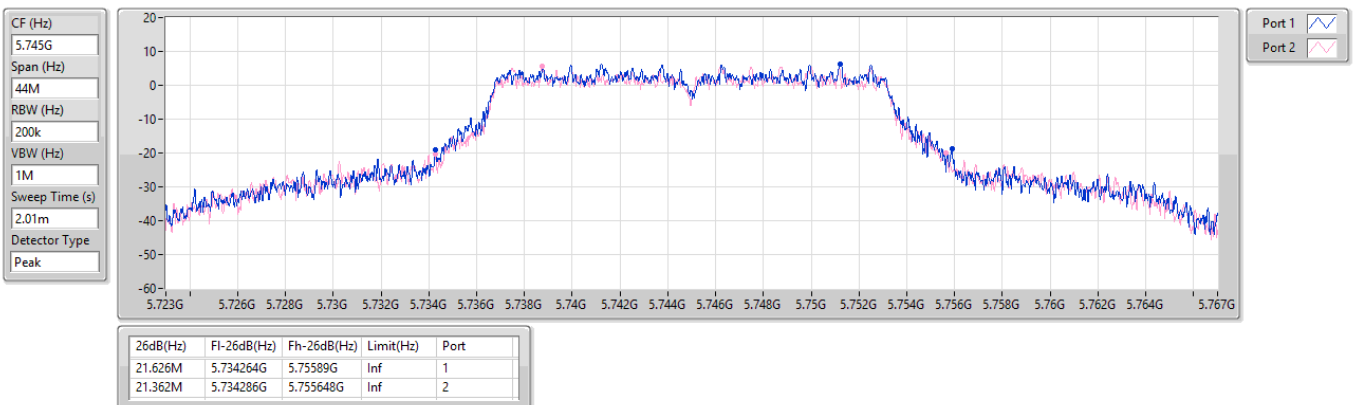


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

26/05/2026

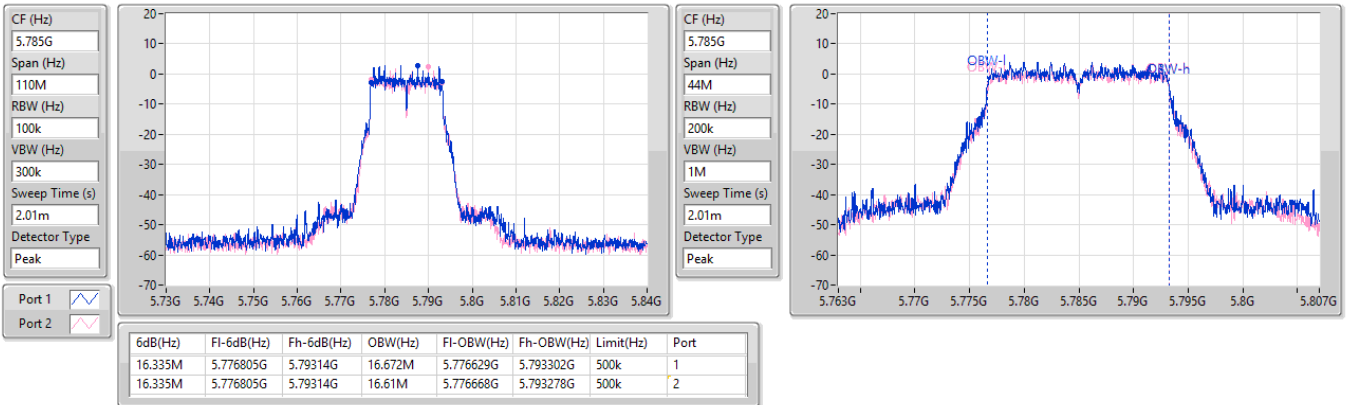

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

26/05/2026

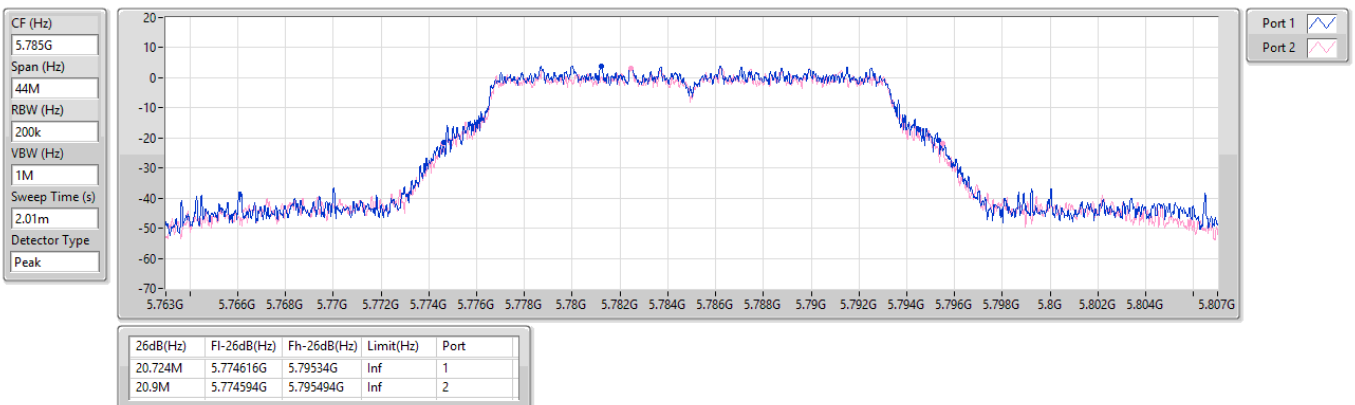


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

26/05/2026

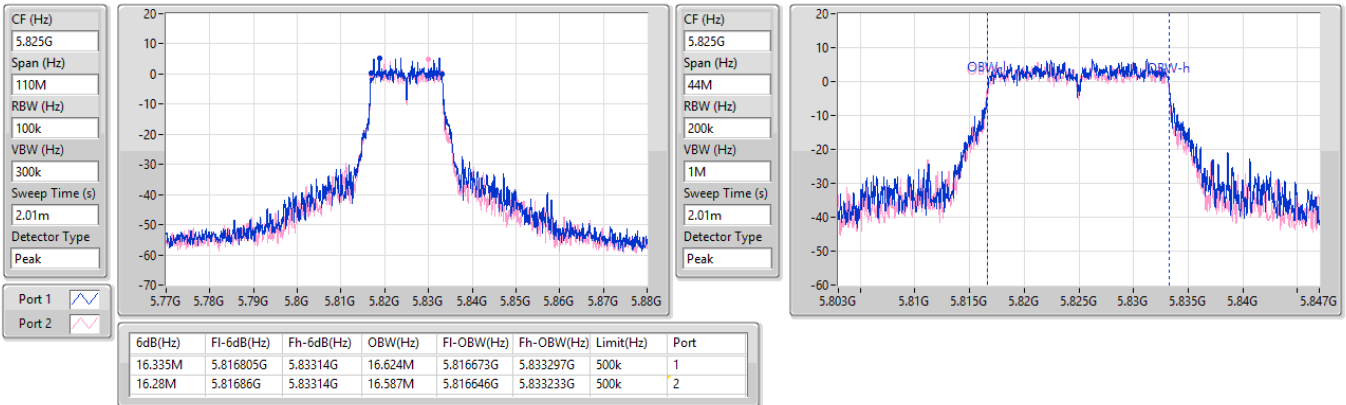

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

26/05/2026

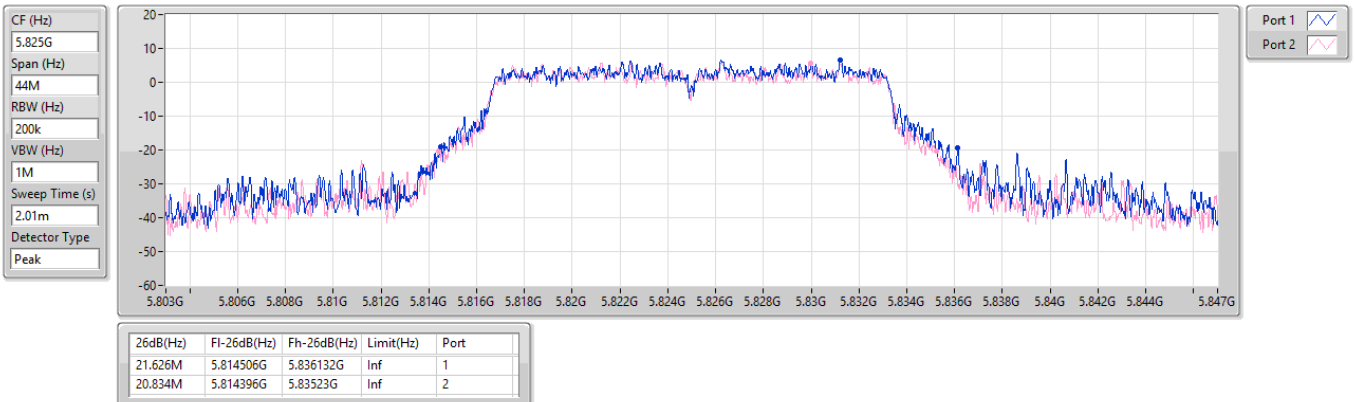


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

26/05/2026

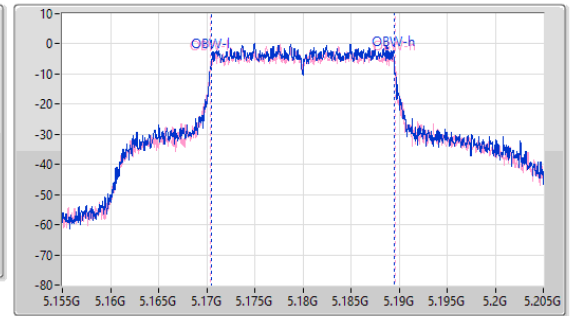
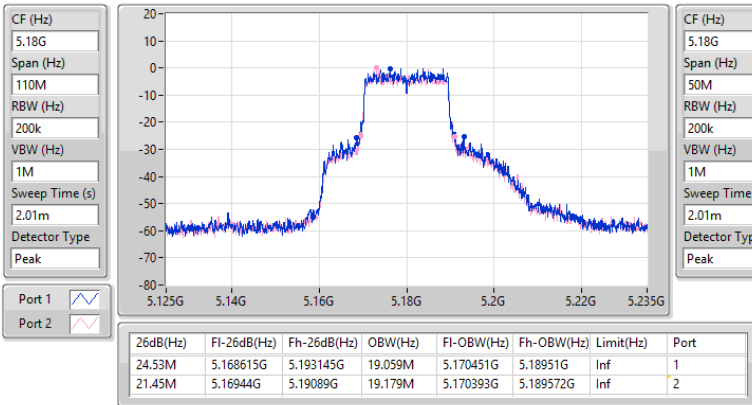

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

26/05/2026

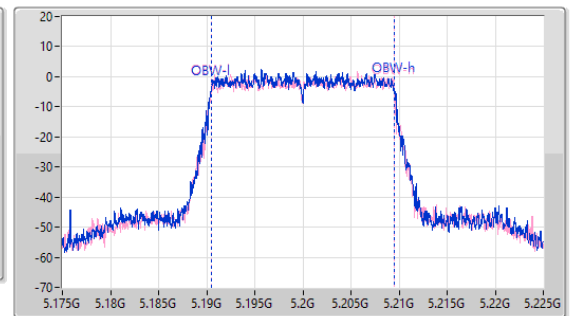
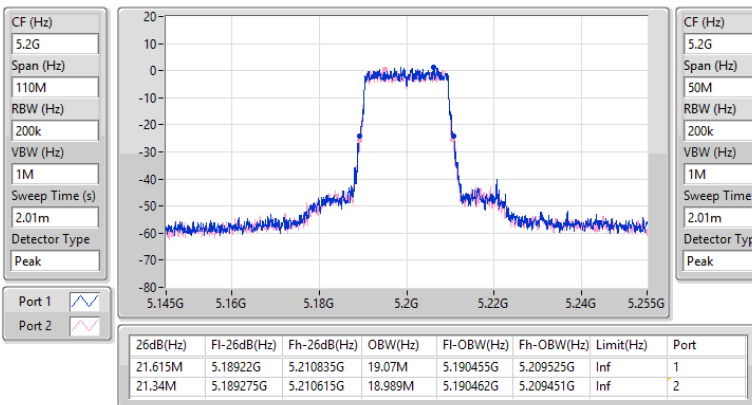


5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5180MHz

26/05/2026

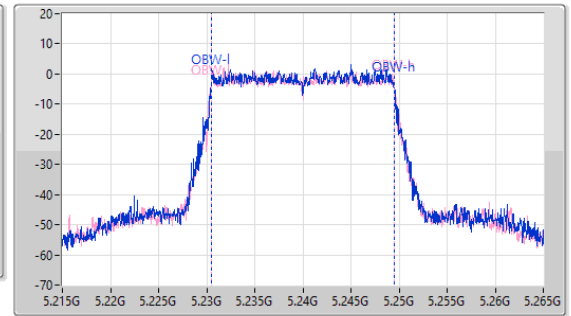
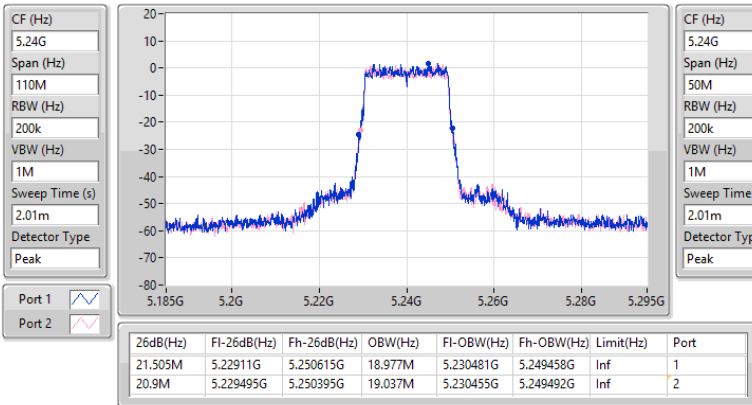

5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5200MHz

26/05/2026

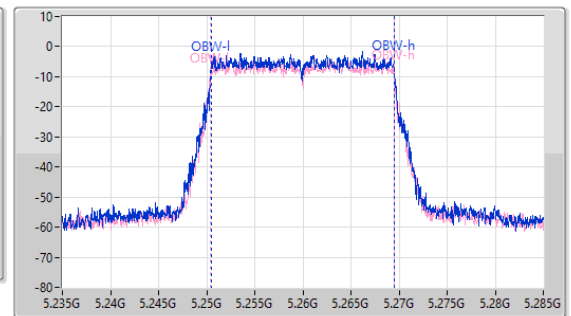
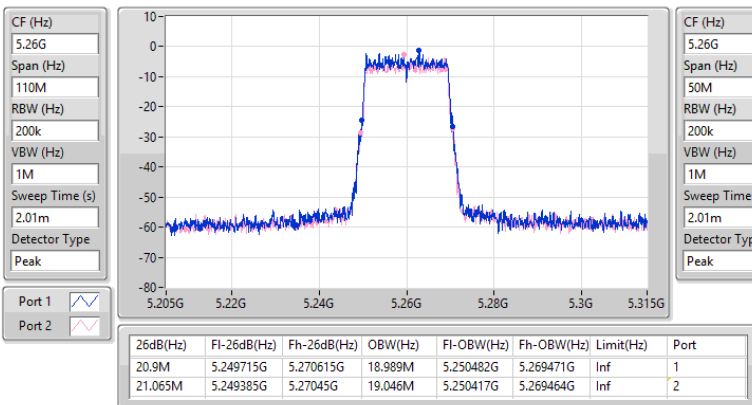


5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5240MHz

26/05/2026

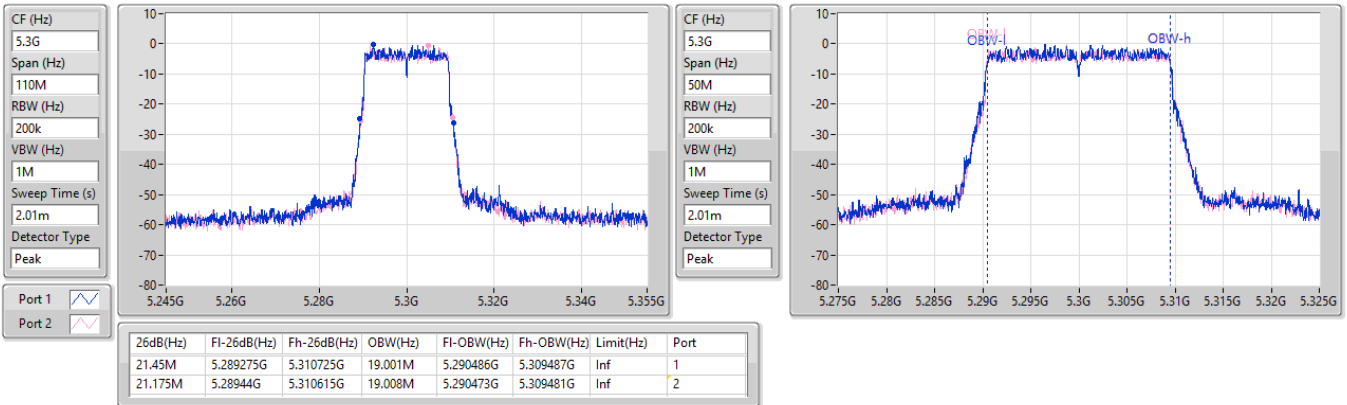

5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5260MHz

26/05/2026

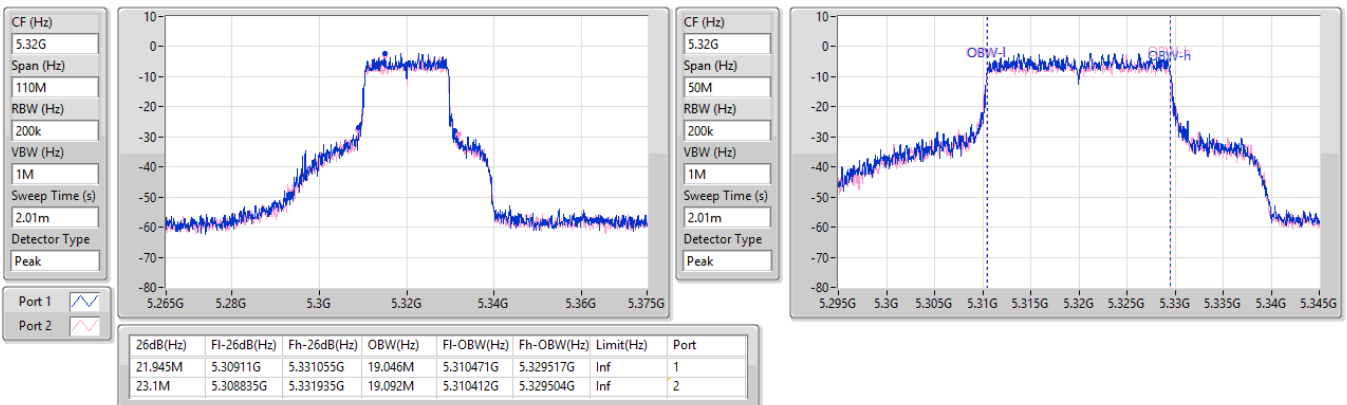


5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5300MHz

26/05/2026

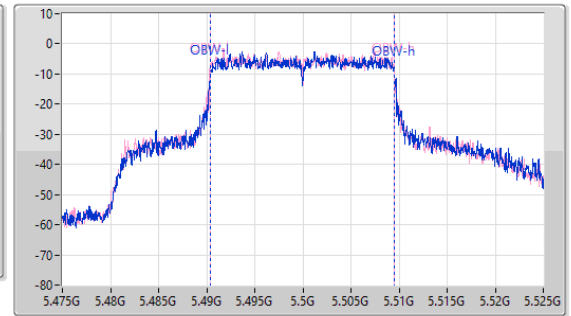
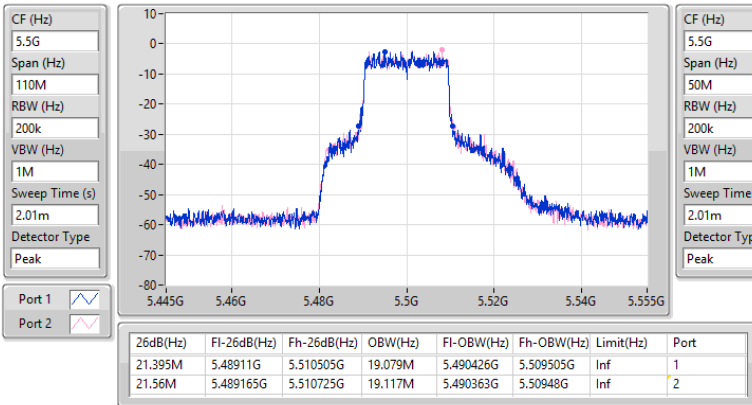

5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5320MHz

26/05/2026

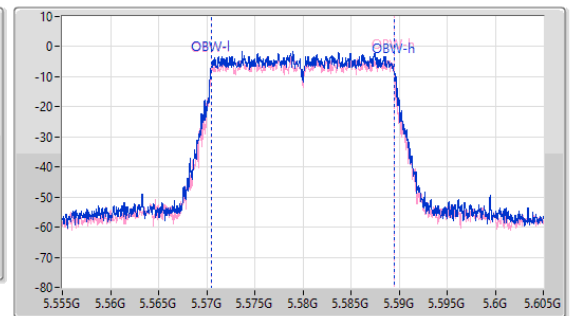
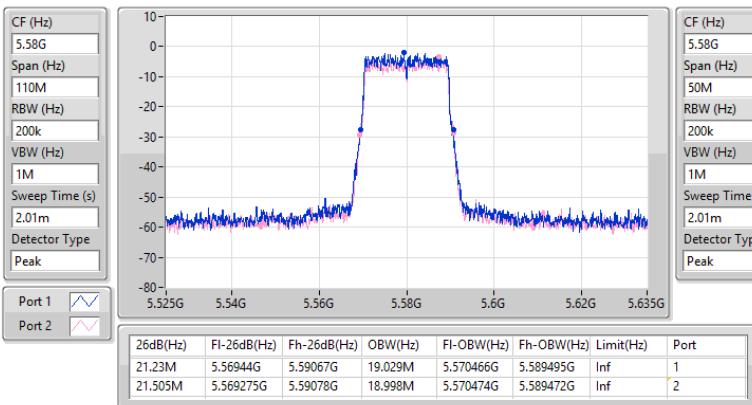


5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5500MHz

26/05/2026

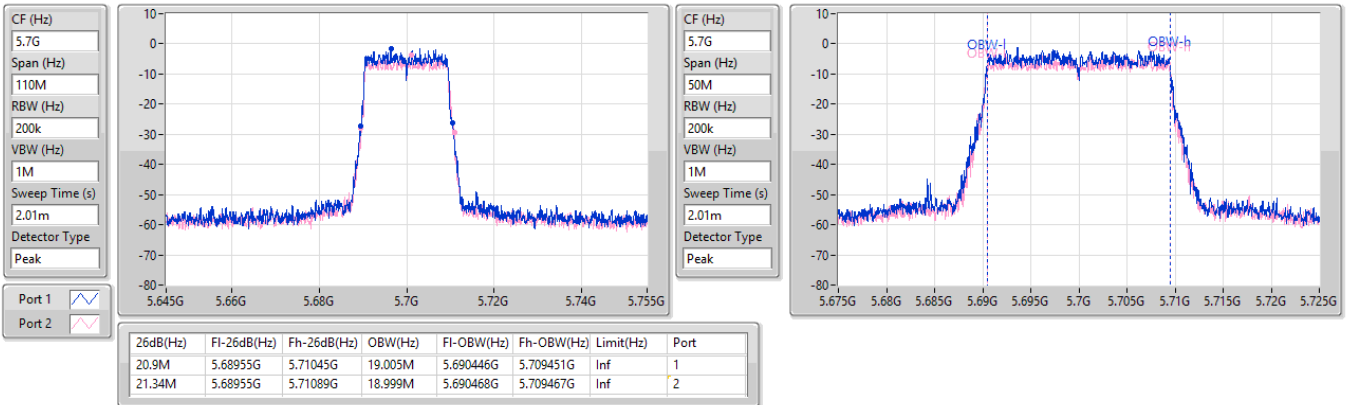

5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5580MHz

26/05/2026

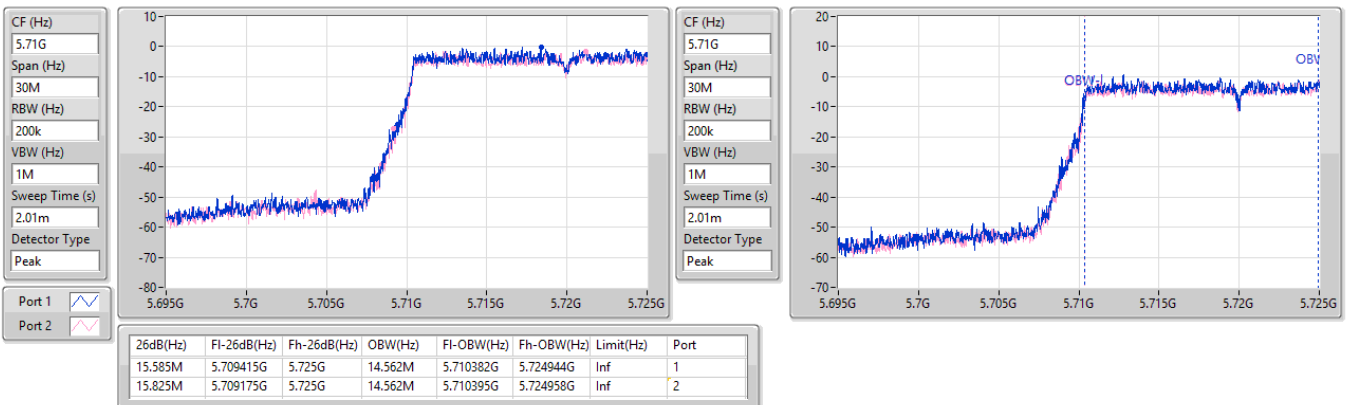


5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5700MHz

26/05/2026


5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/05/2026

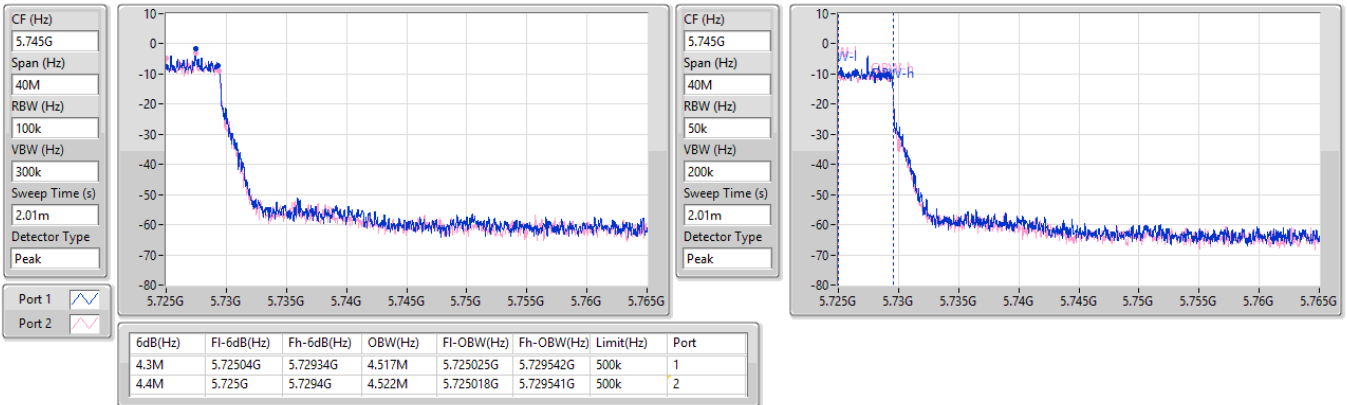


5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/05/2026

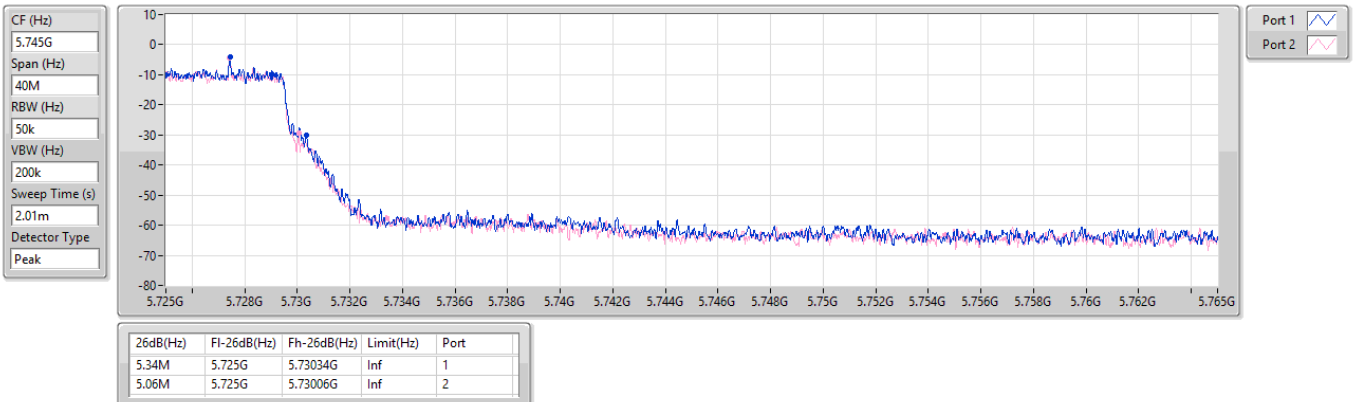


5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

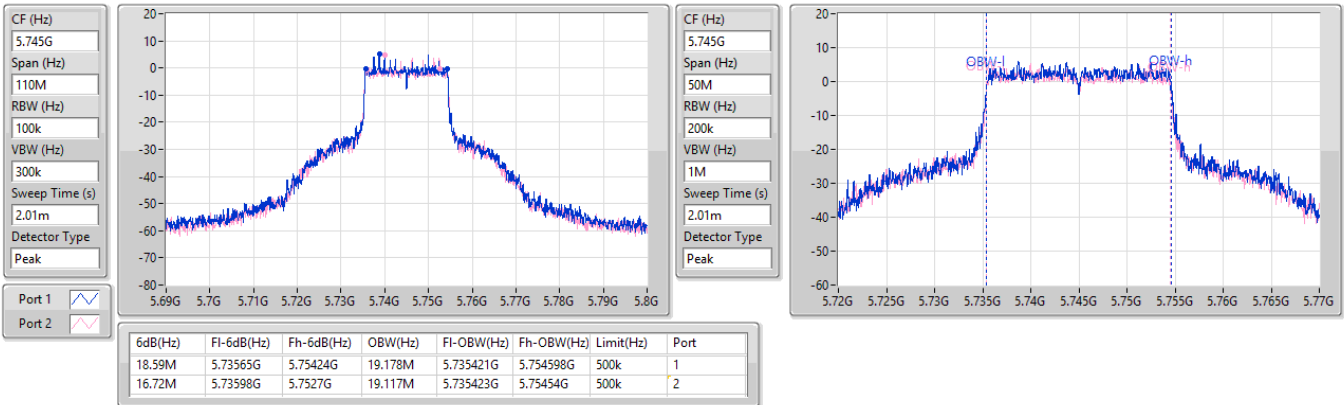
5720MHz Straddle 5.725-5.85GHz

26/05/2026

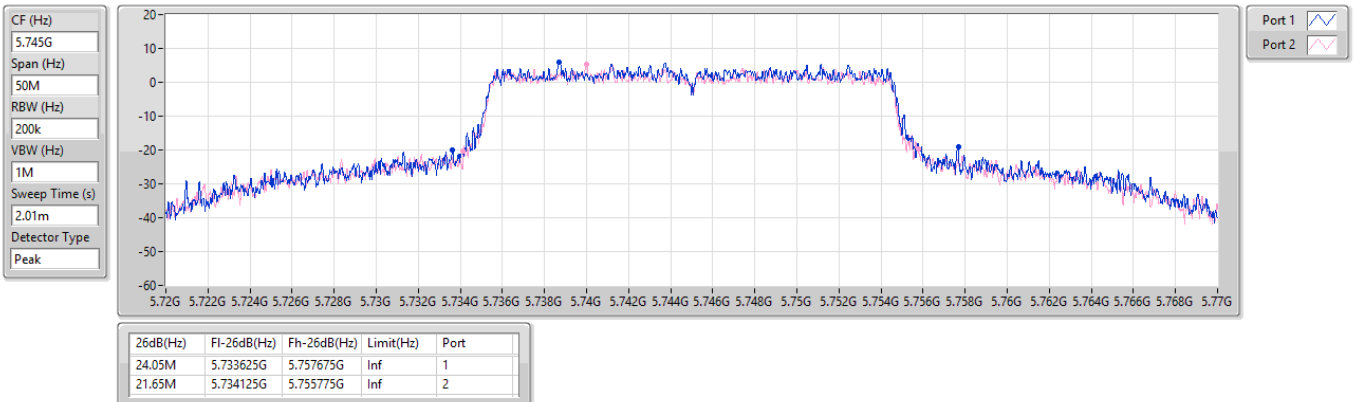


5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5745MHz

26/05/2026

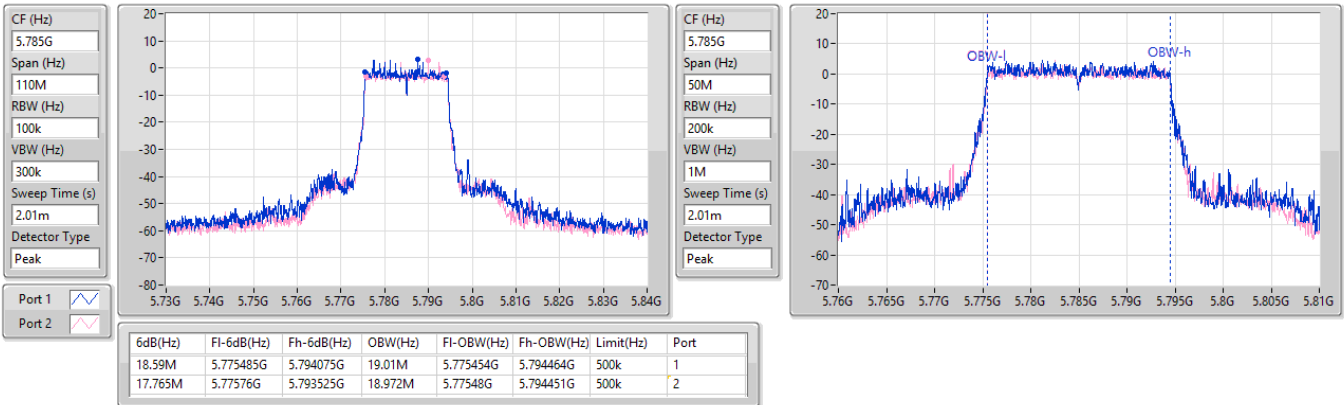

5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5745MHz

26/05/2026

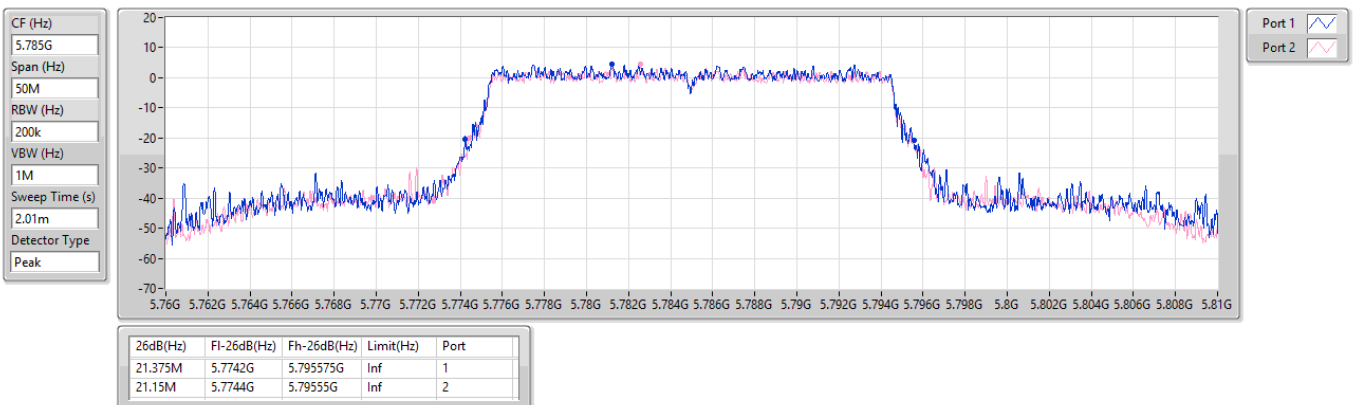


5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5785MHz

26/05/2026

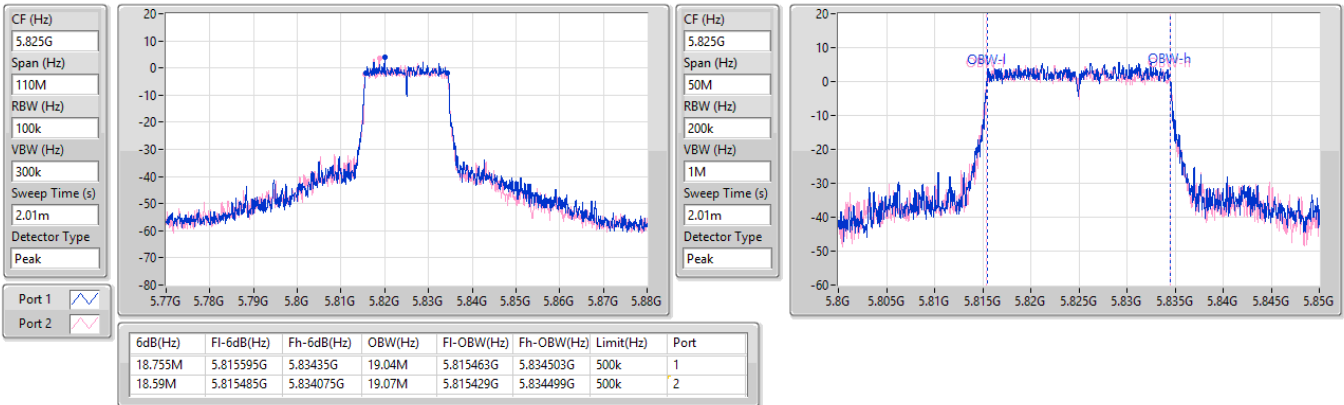

5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5785MHz

26/05/2026

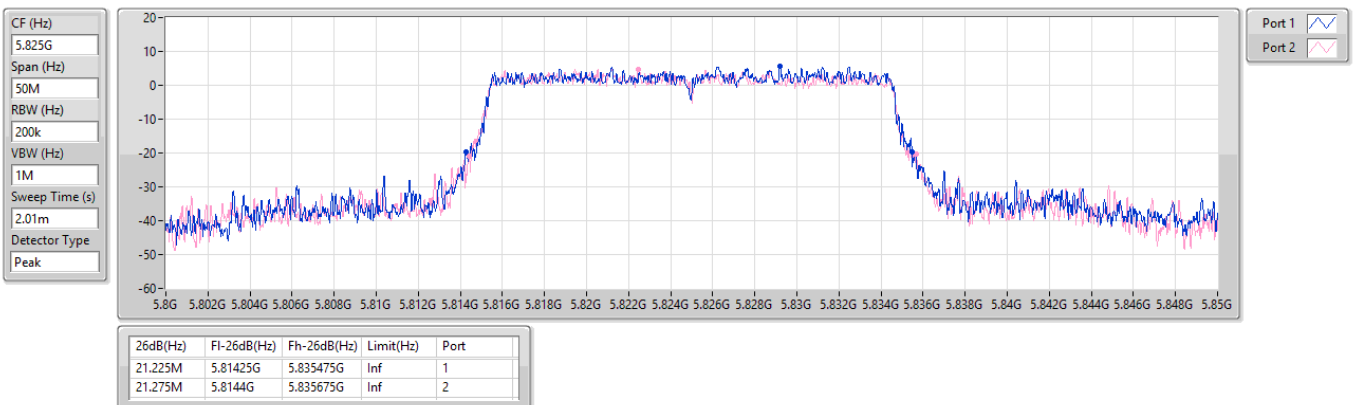


5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5825MHz

26/05/2026

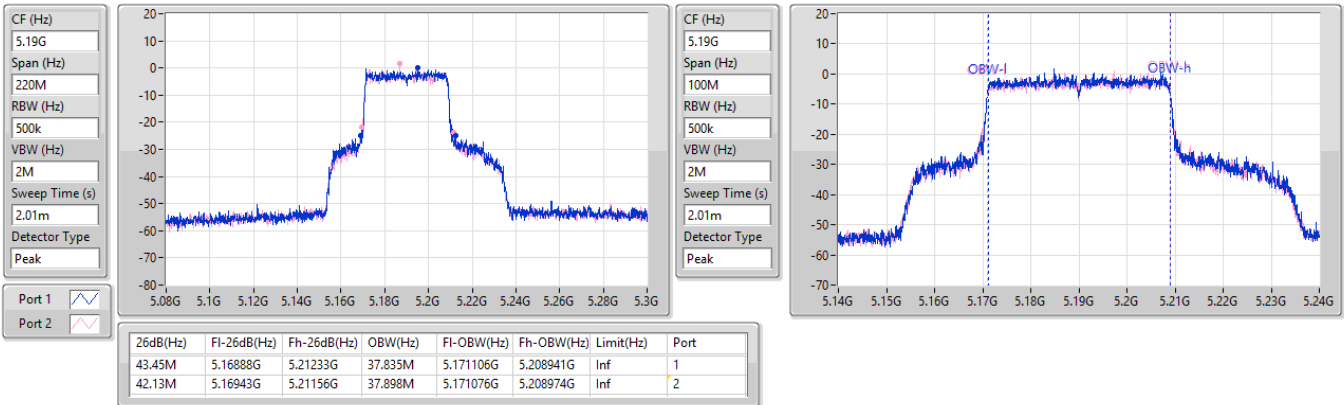

5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5825MHz

26/05/2026

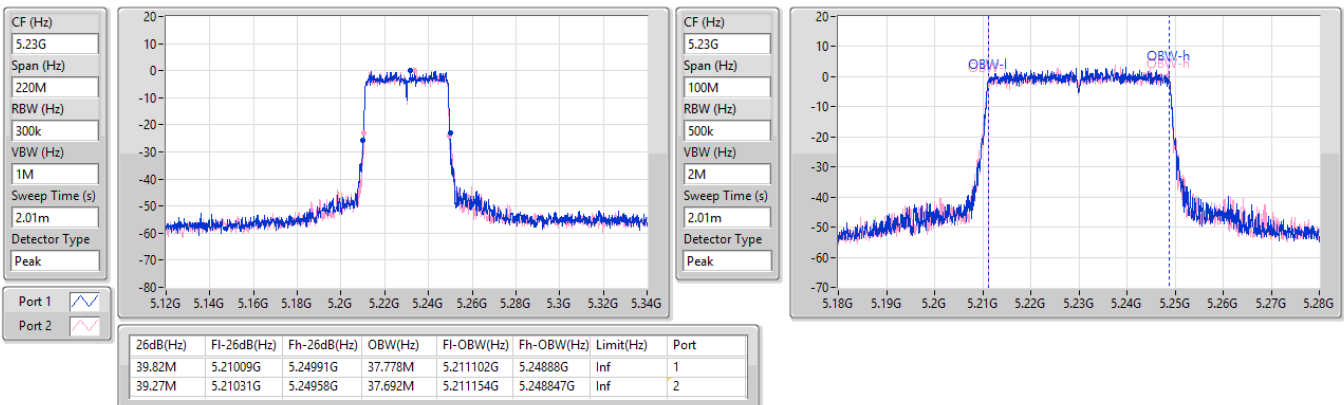


5.15-5.25GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5190MHz

26/05/2026

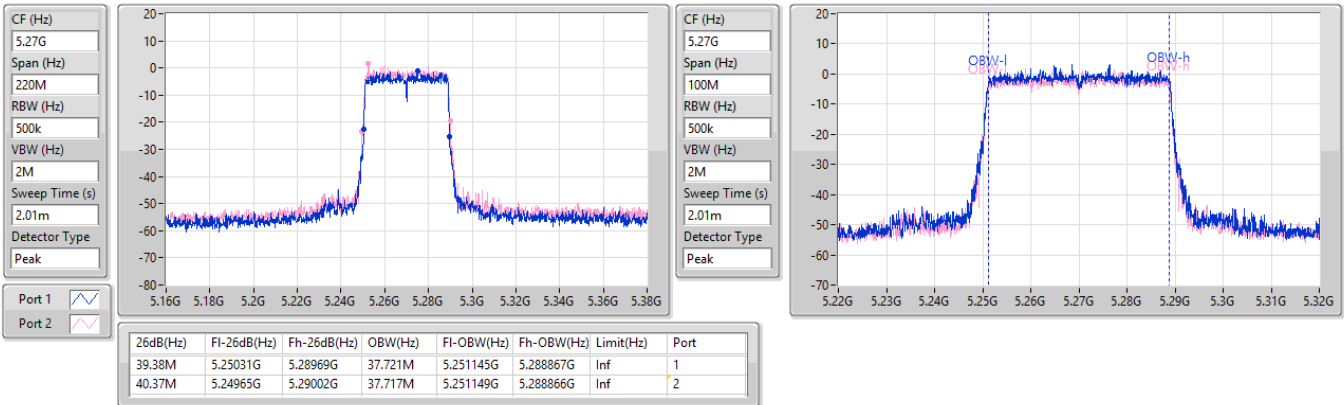

5.15-5.25GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5230MHz

26/05/2026

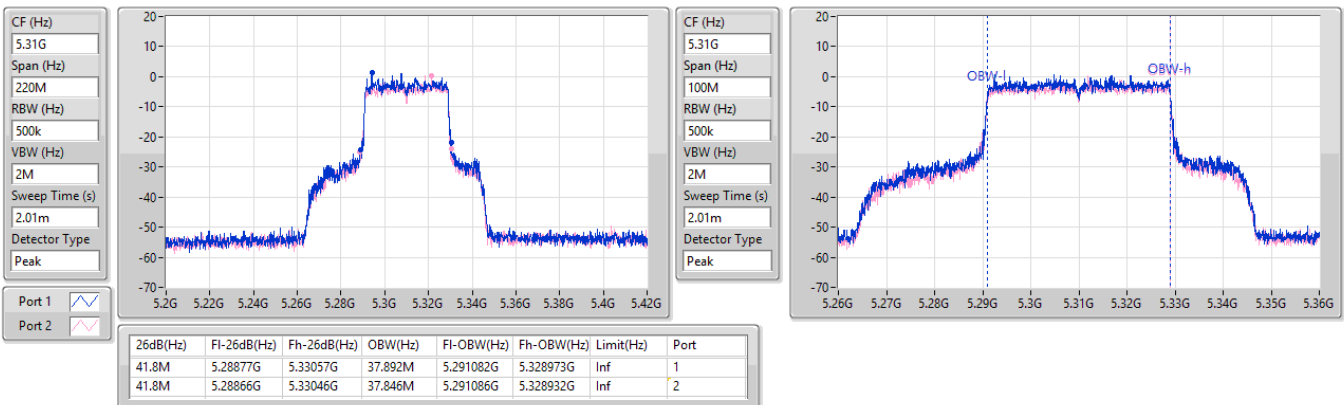


5.25-5.35GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5270MHz

26/05/2026

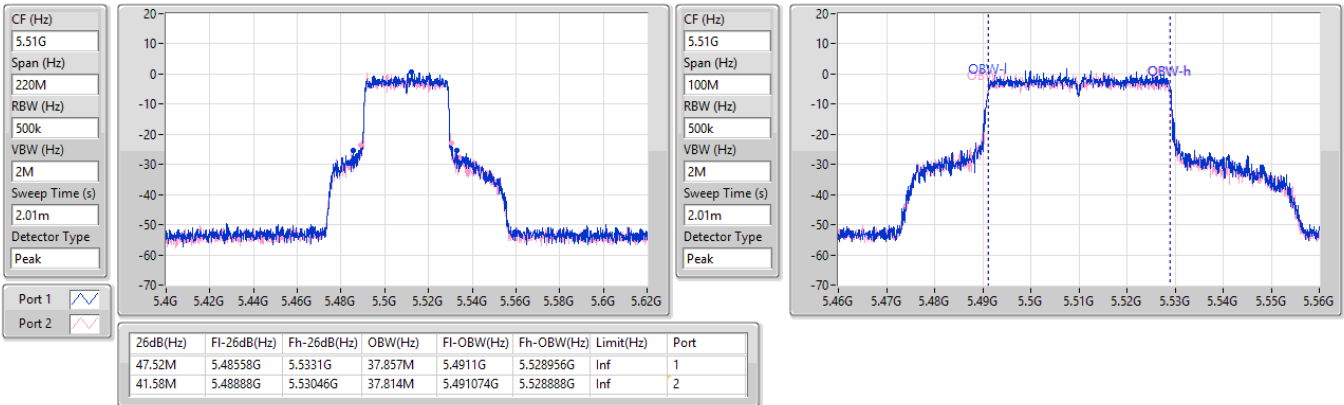

5.25-5.35GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5310MHz

26/05/2026

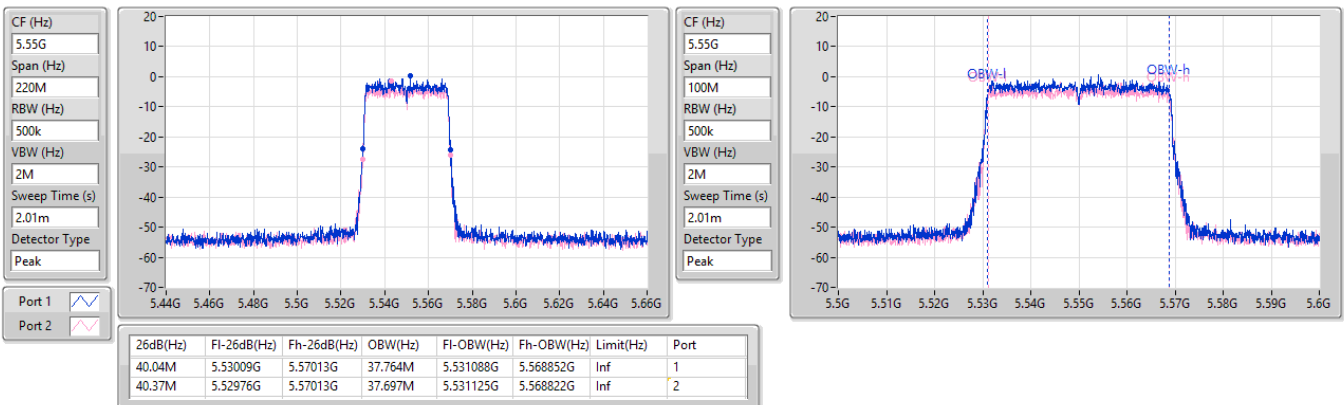


5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5510MHz

26/05/2026

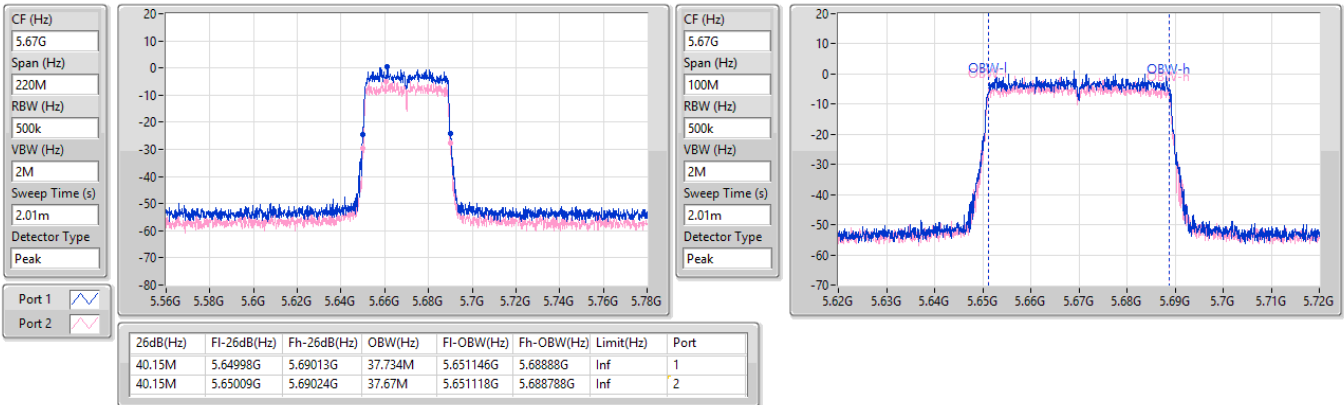

5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5550MHz

26/05/2026

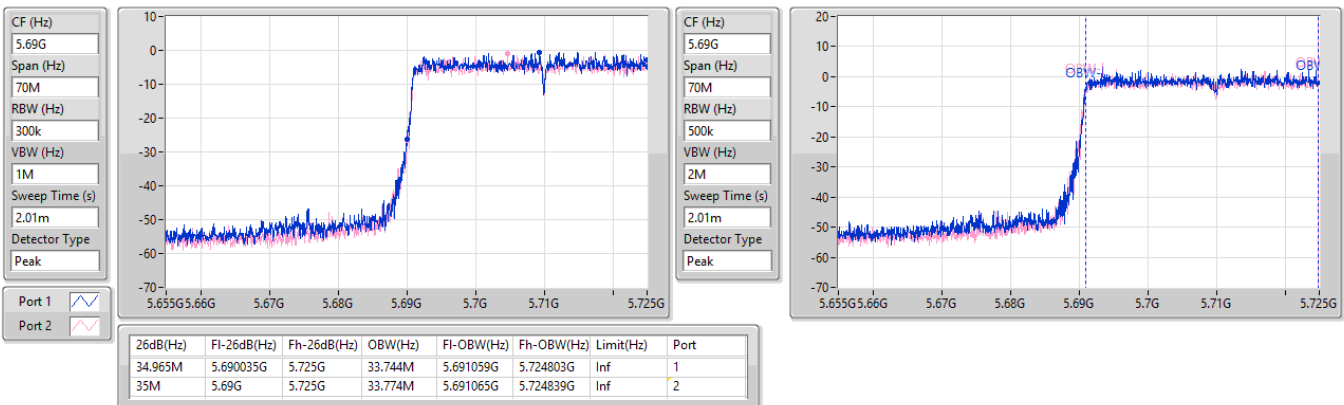


5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5670MHz

26/05/2026


5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

26/05/2026

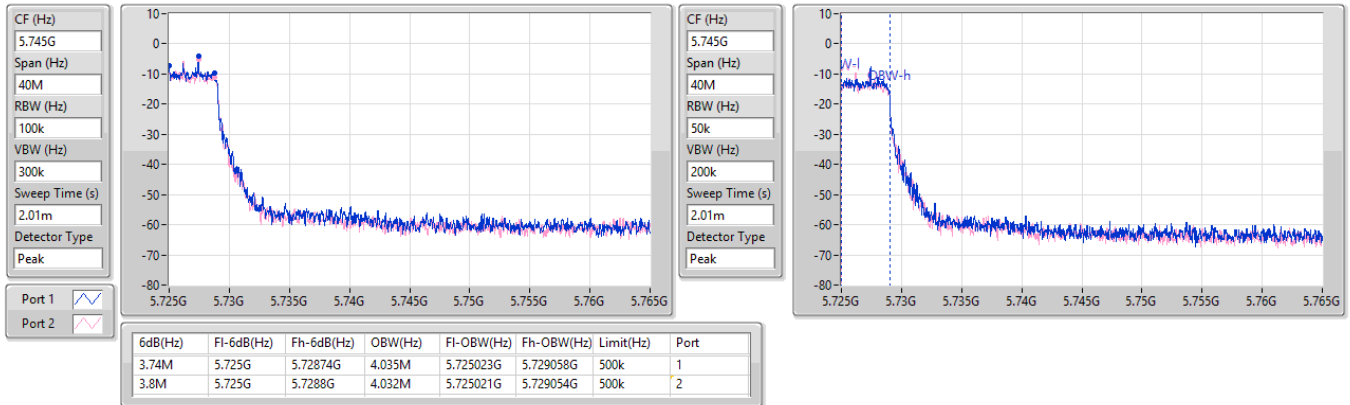


5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

26/05/2026

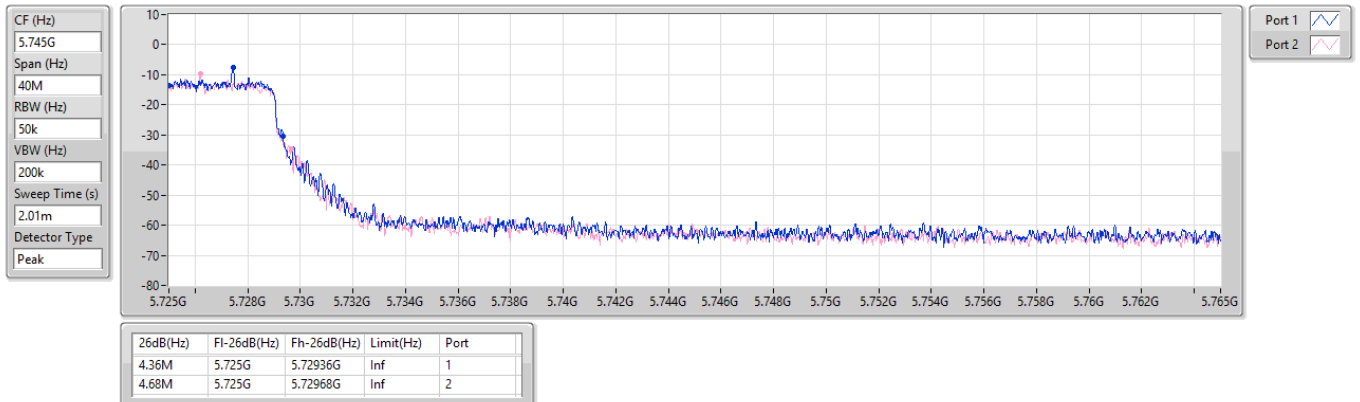


5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

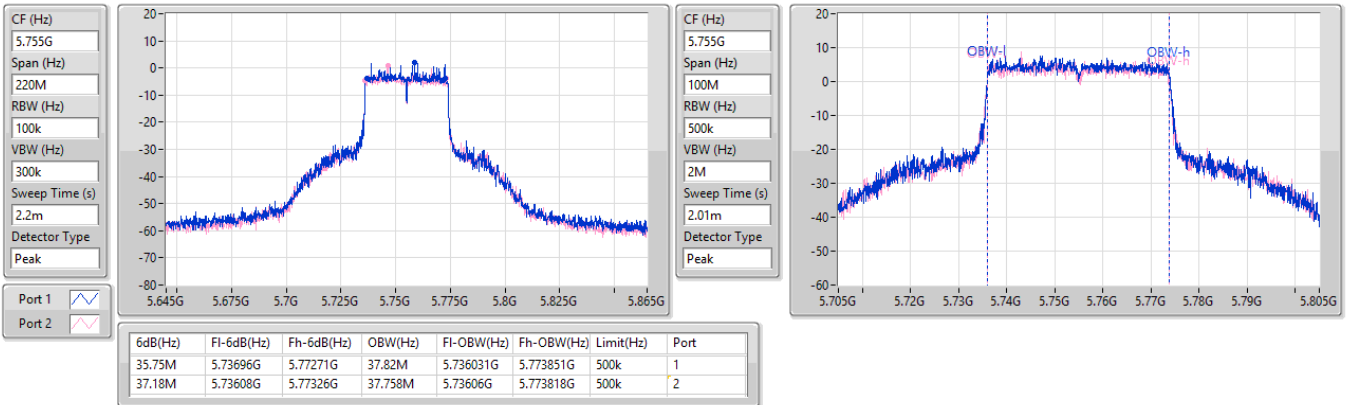
5710MHz Straddle 5.725-5.85GHz

26/05/2026

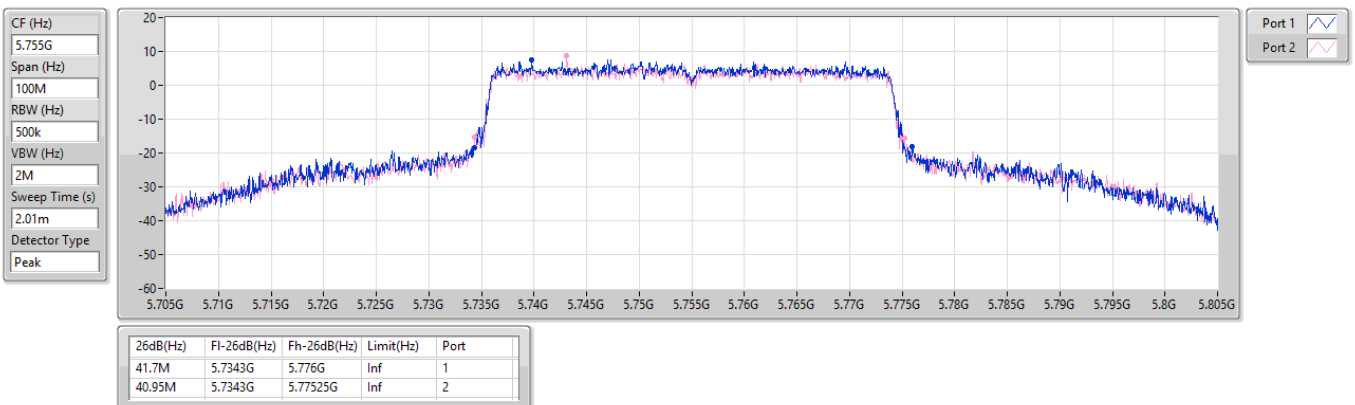


5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5755MHz

26/05/2026

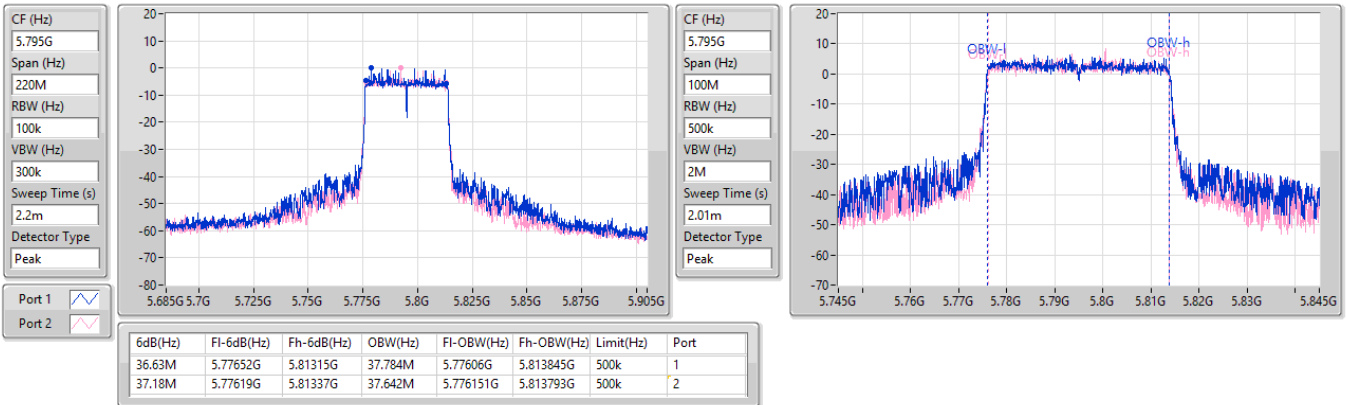

5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5755MHz

26/05/2026

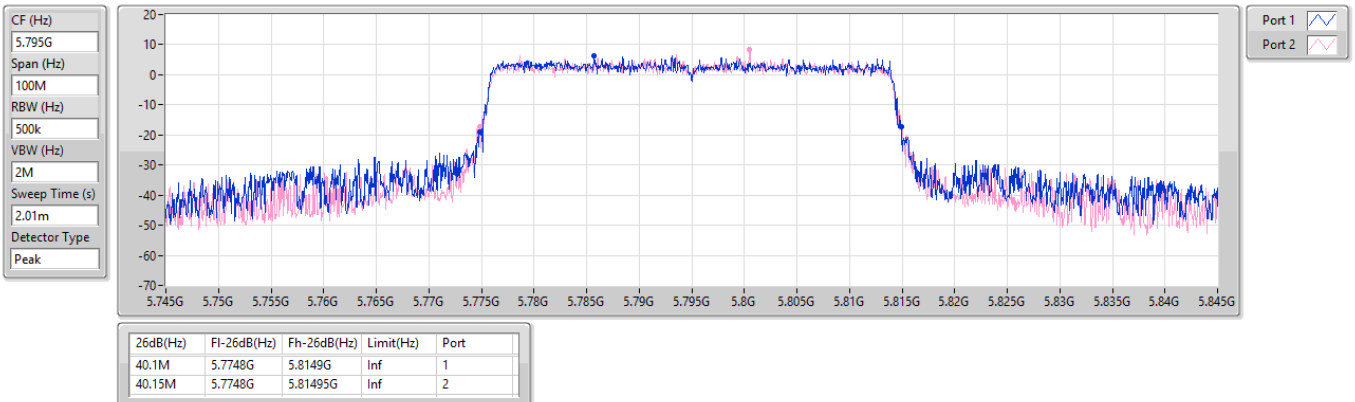


5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5795MHz

26/05/2026

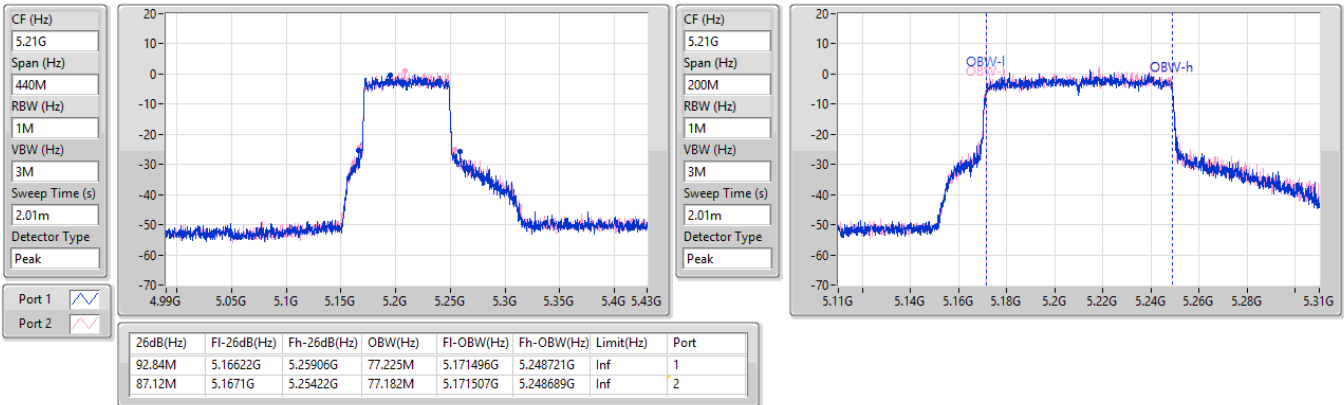

5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
5795MHz

26/05/2026

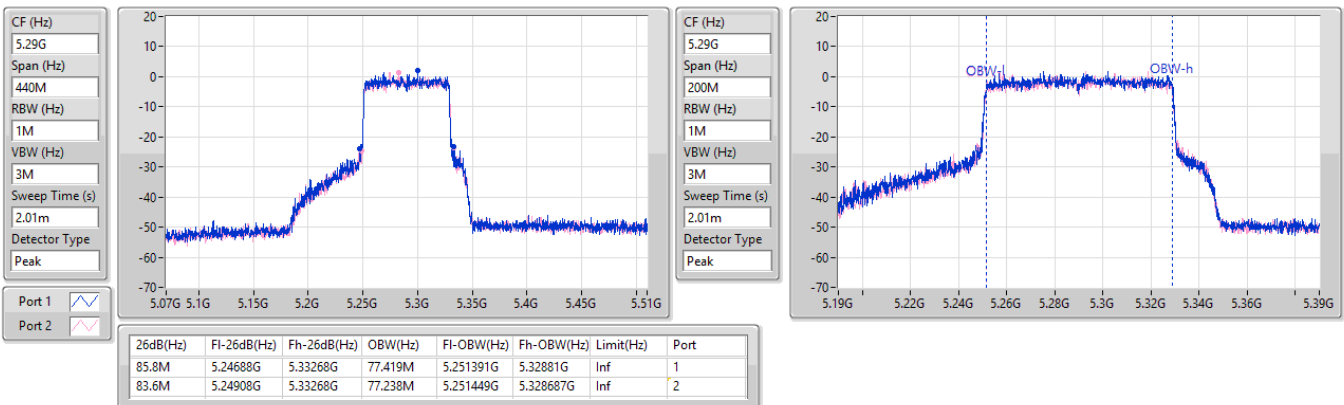


5.15-5.25GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5210MHz

26/05/2026

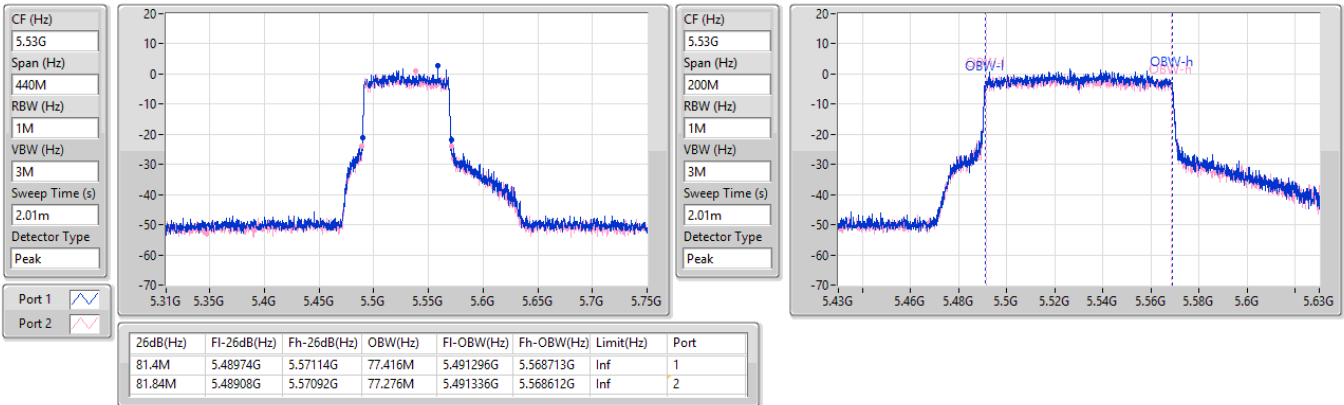

5.25-5.35GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5290MHz

26/05/2026

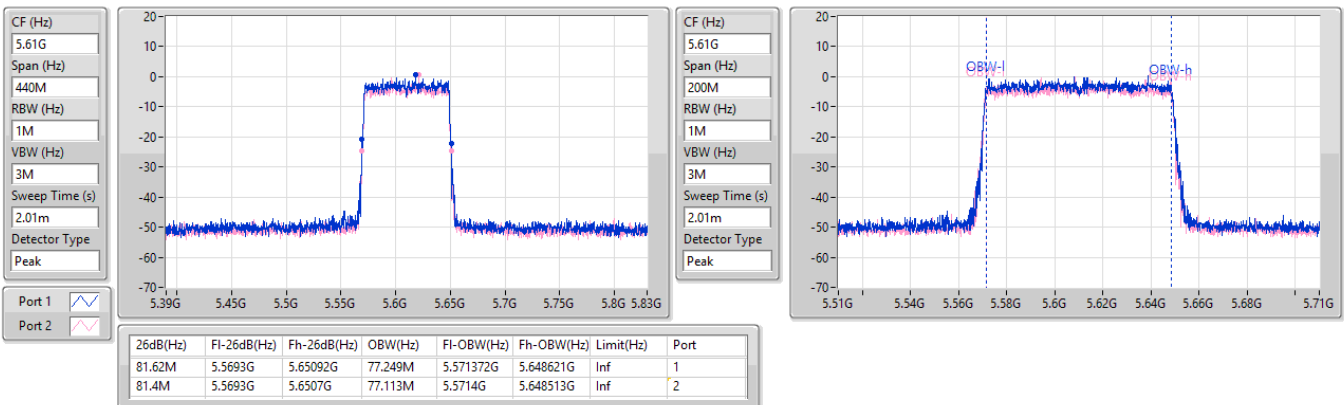


5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5530MHz

26/05/2026


5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5610MHz

26/05/2026

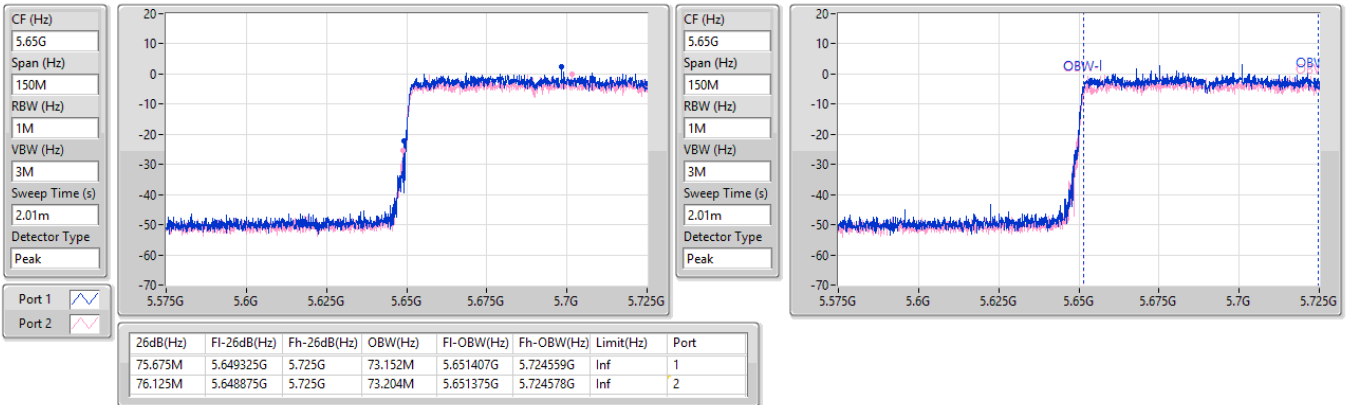


5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

26/05/2026

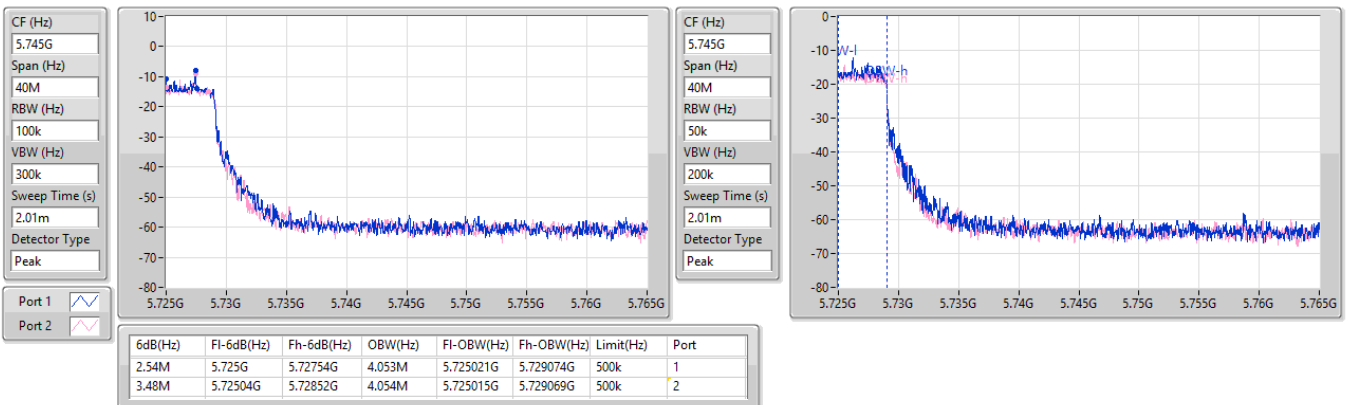


5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

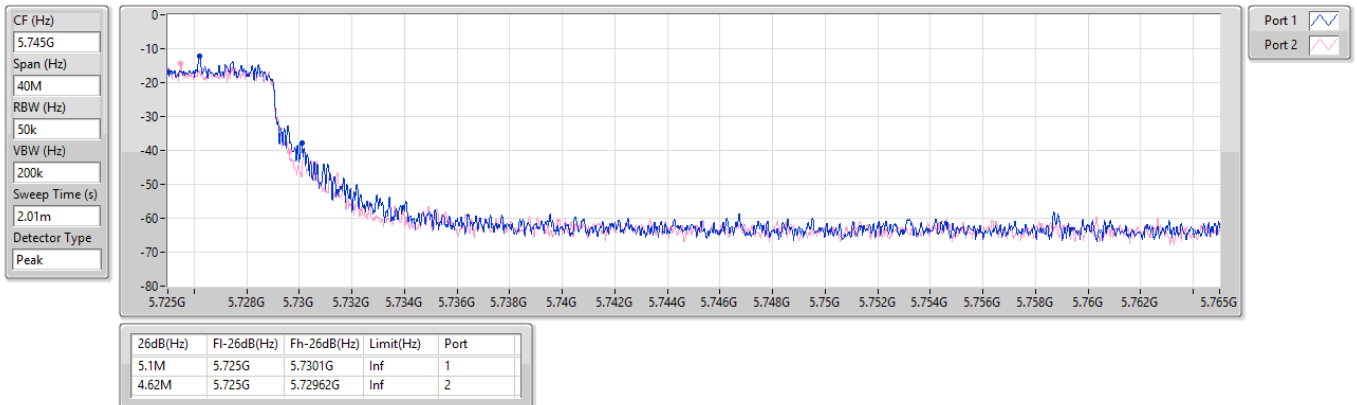
5690MHz Straddle 5.725-5.85GHz

26/05/2026

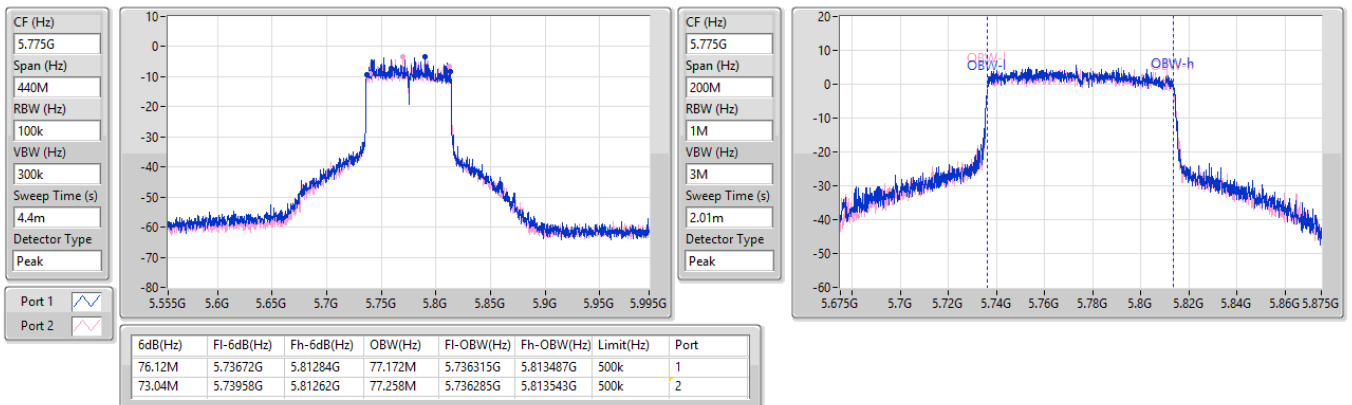


5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

26/05/2026

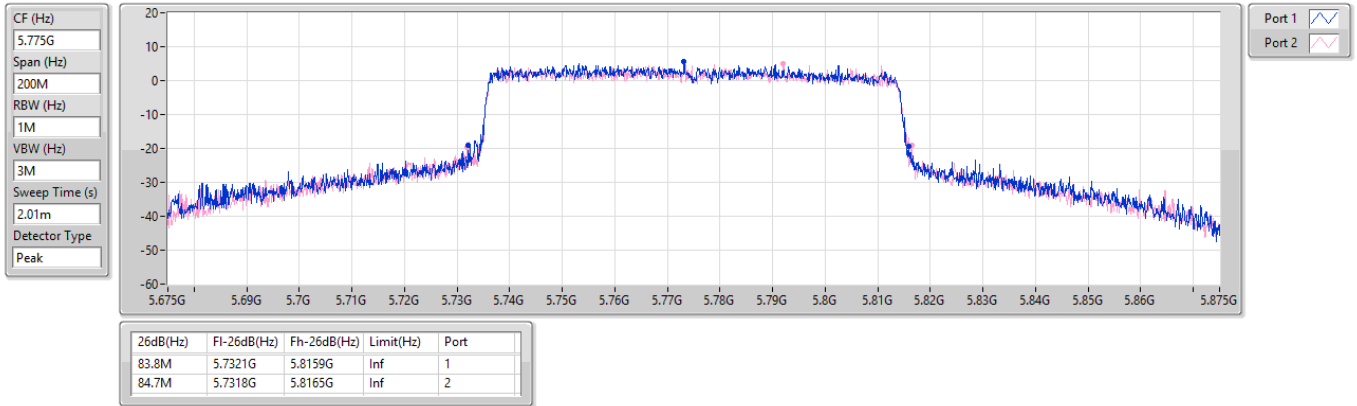

5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5775MHz

26/05/2026

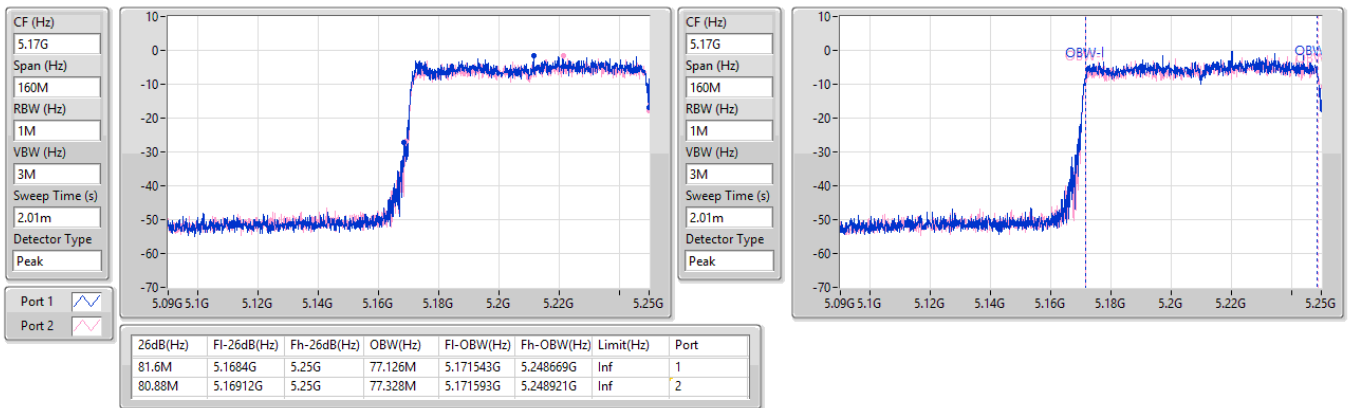


5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX
EBW
5775MHz

26/05/2026

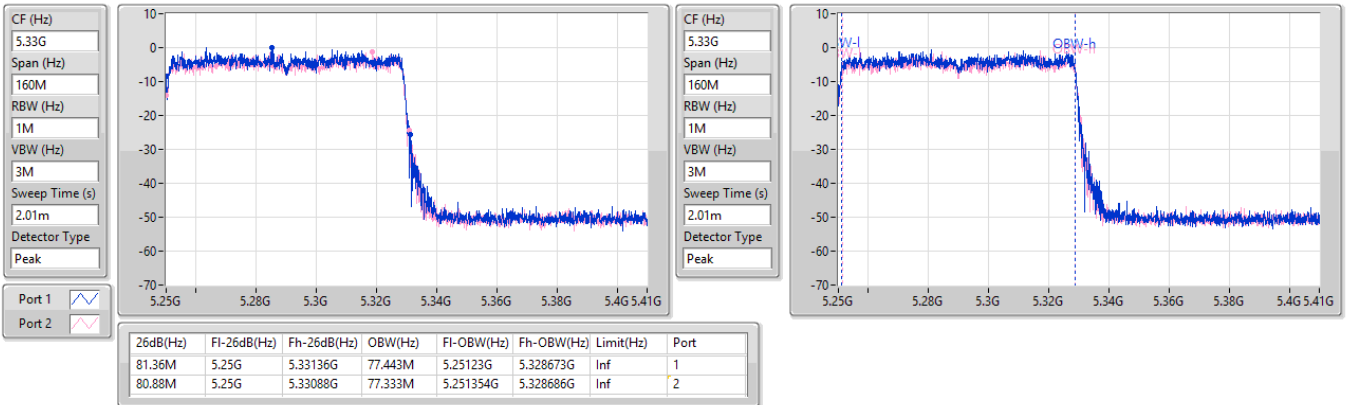

5.15-5.25GHz_802.11be EHT160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.15-5.25GHz

26/05/2026

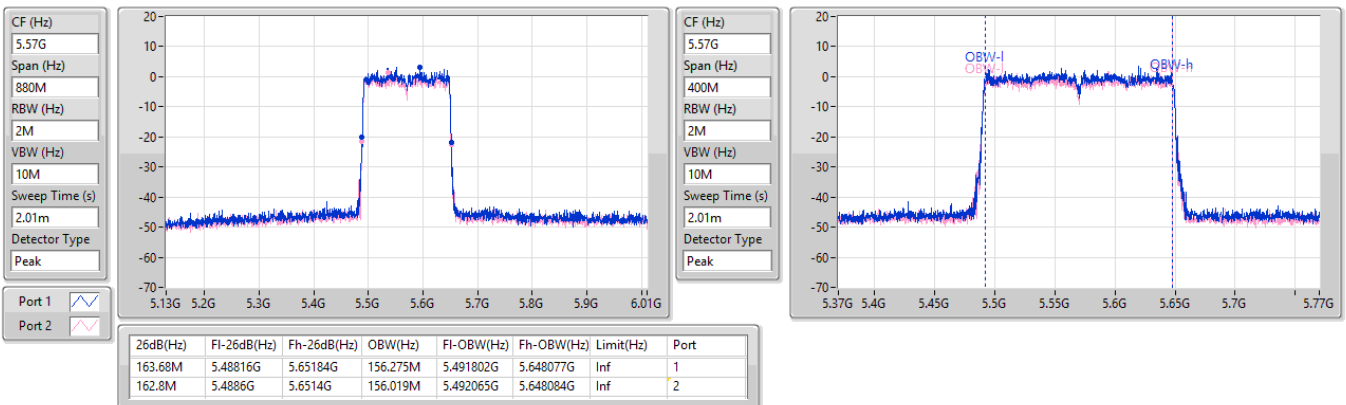


5.25-5.35GHz_802.11be EHT160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.25-5.35GHz

26/05/2026


5.47-5.725GHz_802.11be EHT160_Nss2,(MCS0)_2TX
EBW
5570MHz

26/05/2026

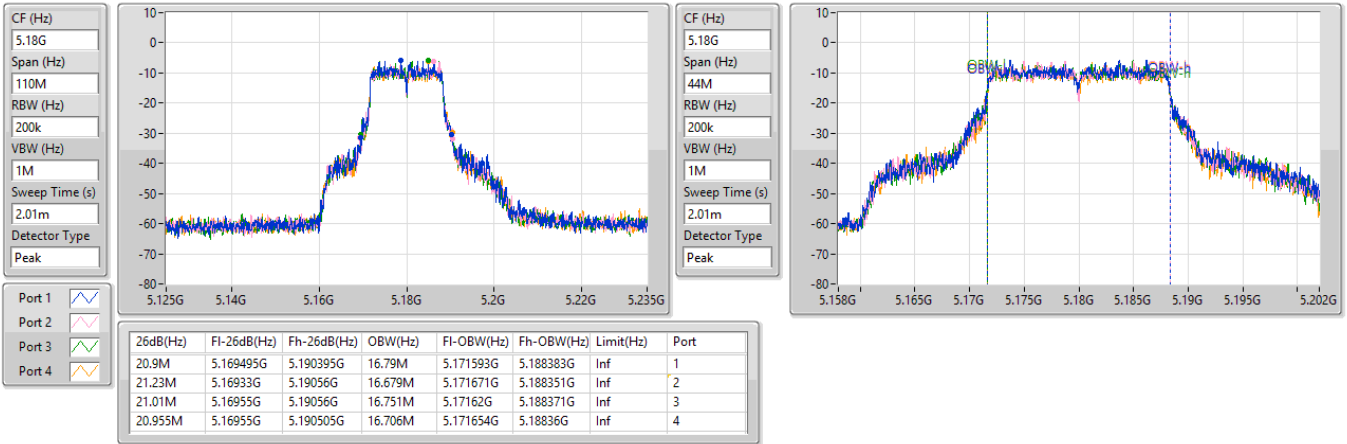


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

26/05/2026

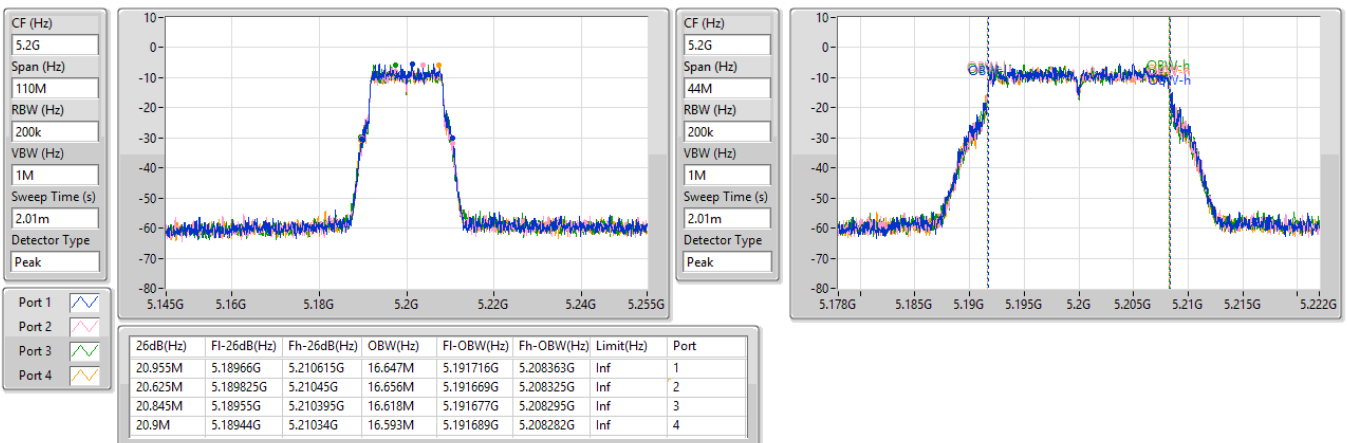


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

26/05/2026

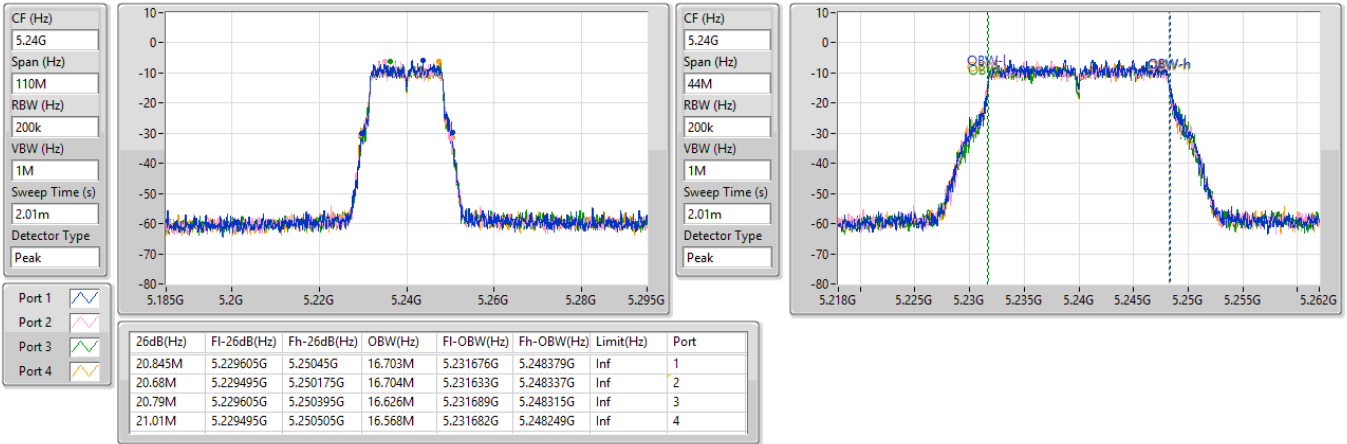


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

26/05/2026

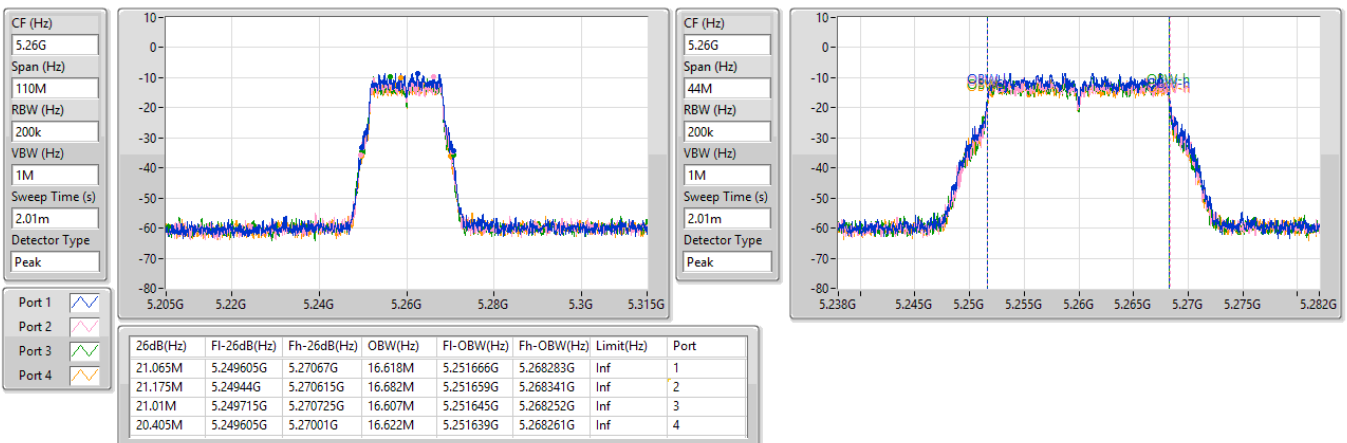


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

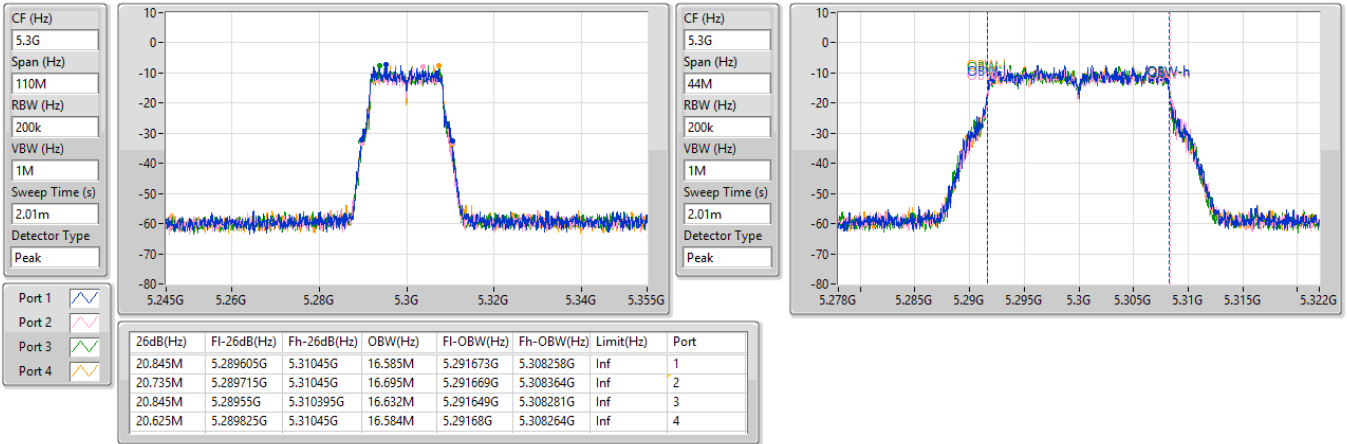
5260MHz

26/05/2026

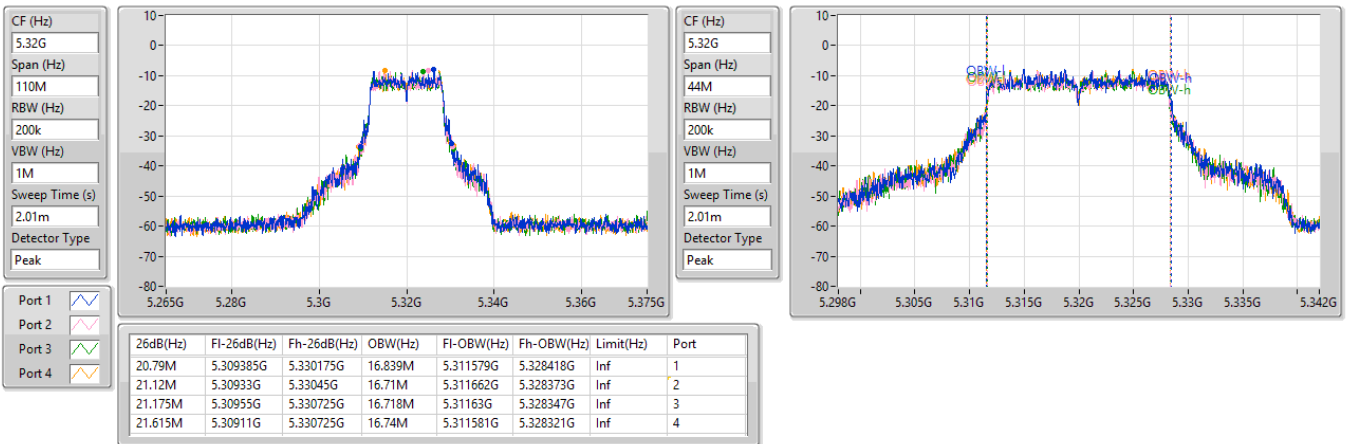


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

26/05/2026


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

26/05/2026

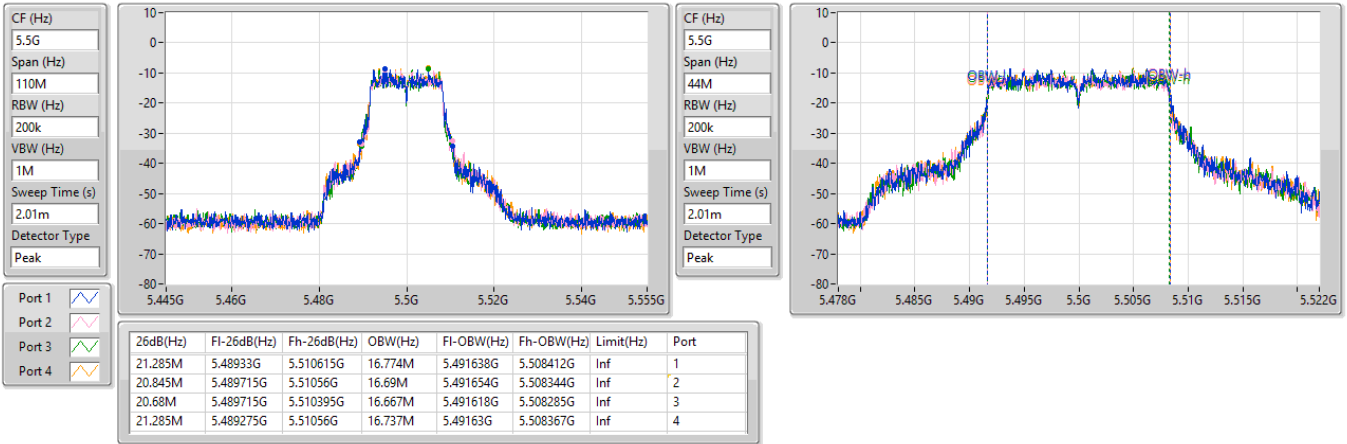


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

26/05/2026

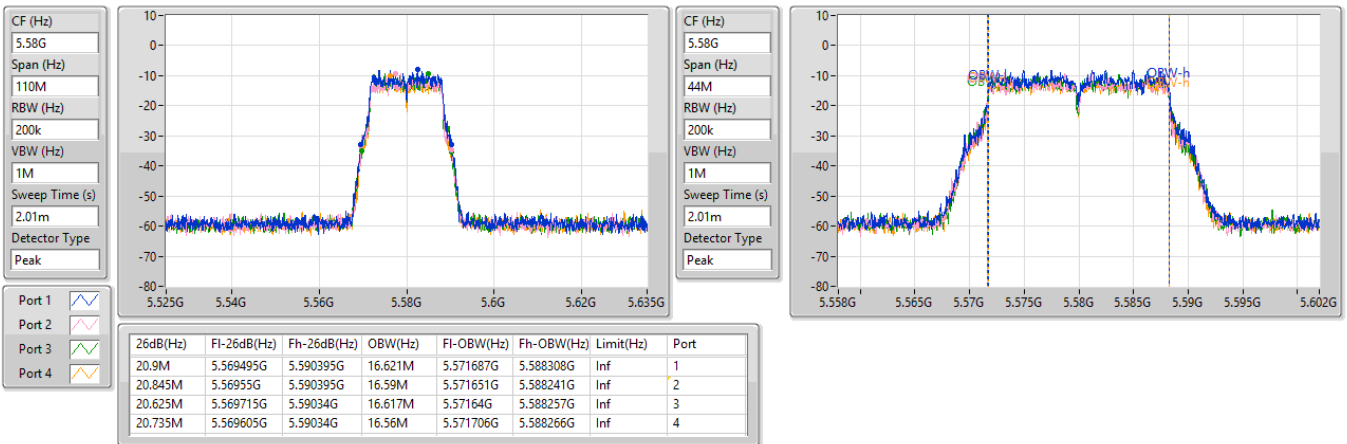


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

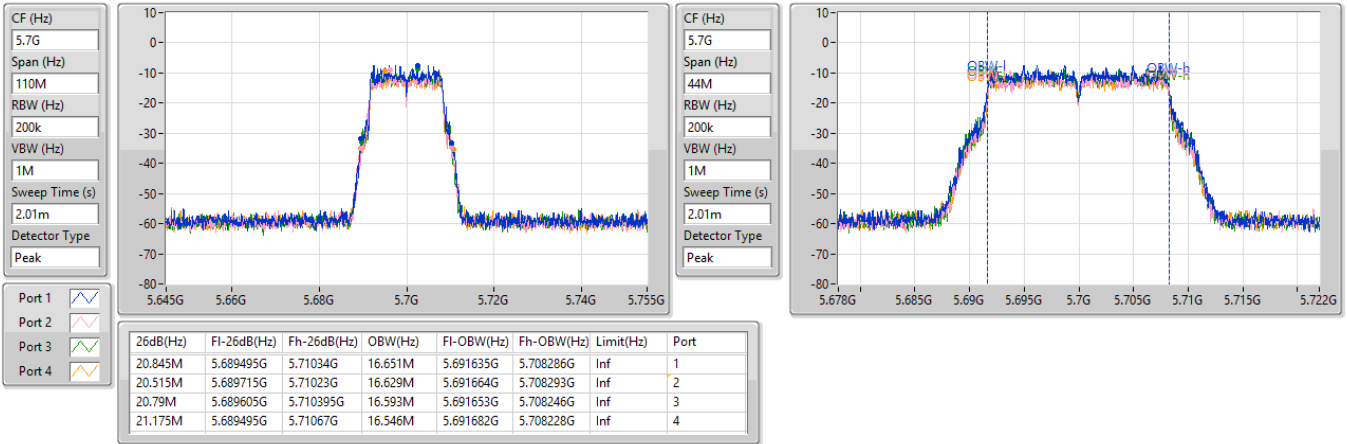
5580MHz

26/05/2026

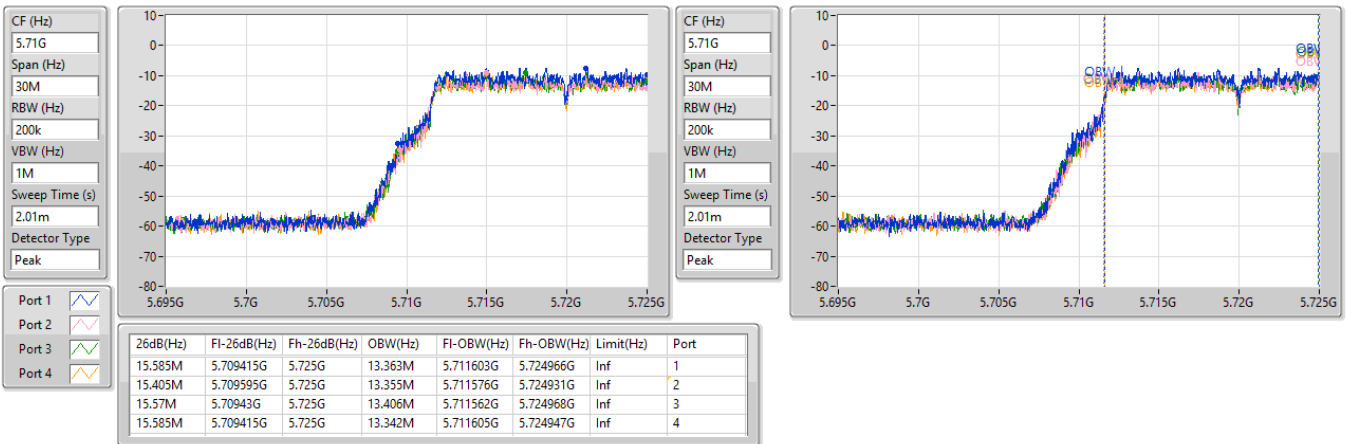


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

26/05/2026

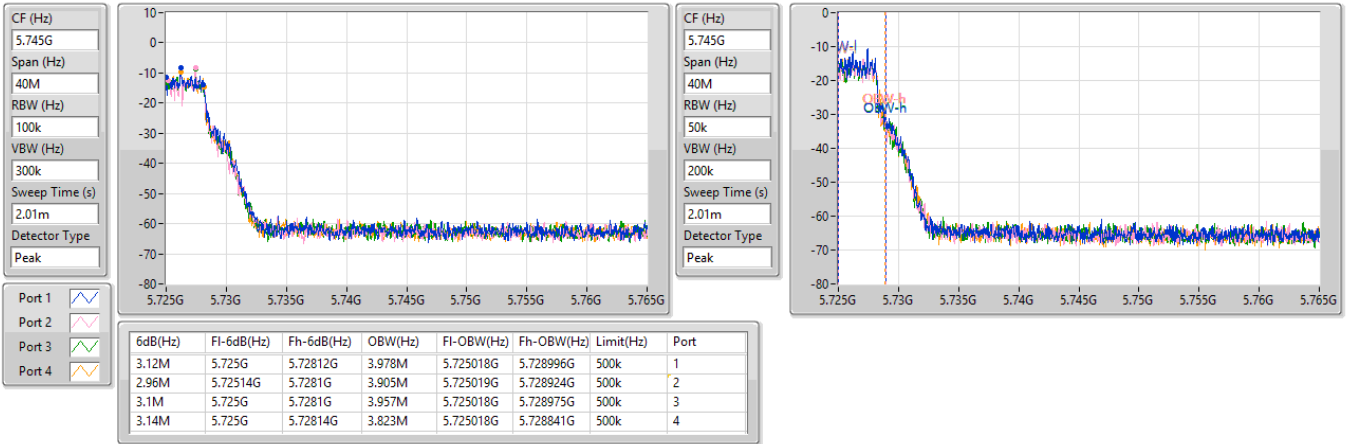

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

26/05/2026

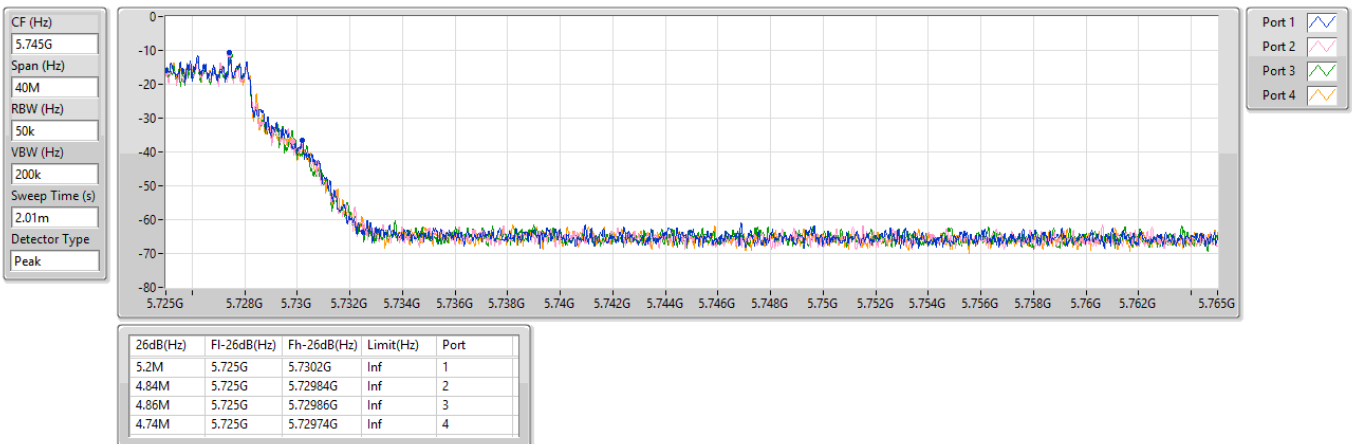


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/05/2026

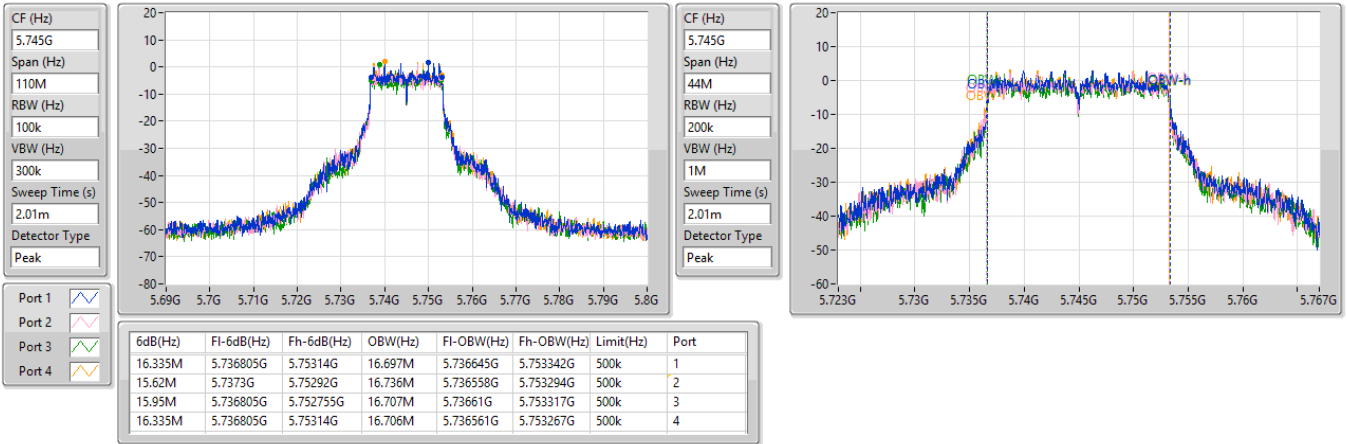

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/05/2026

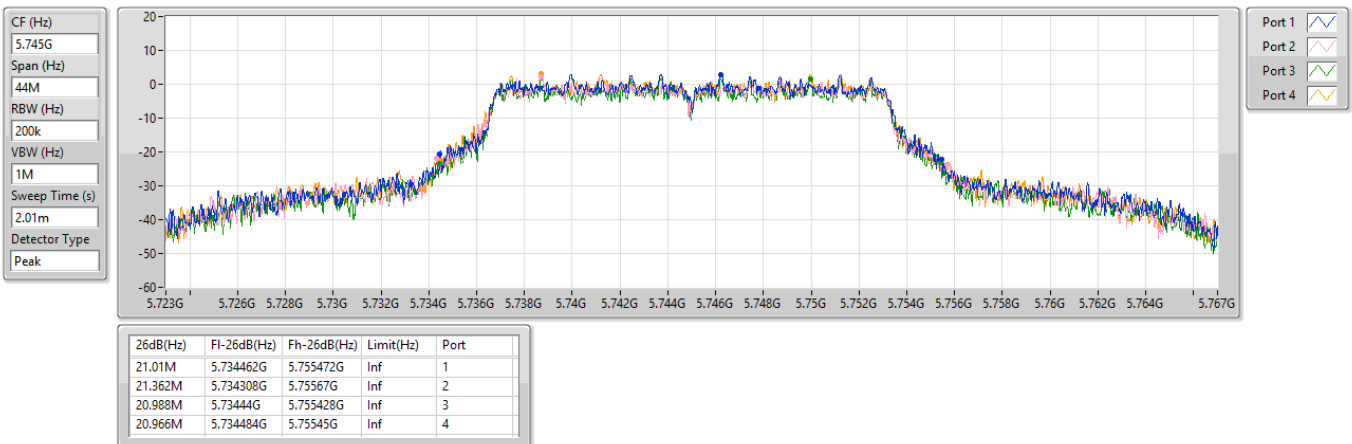


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

26/05/2026

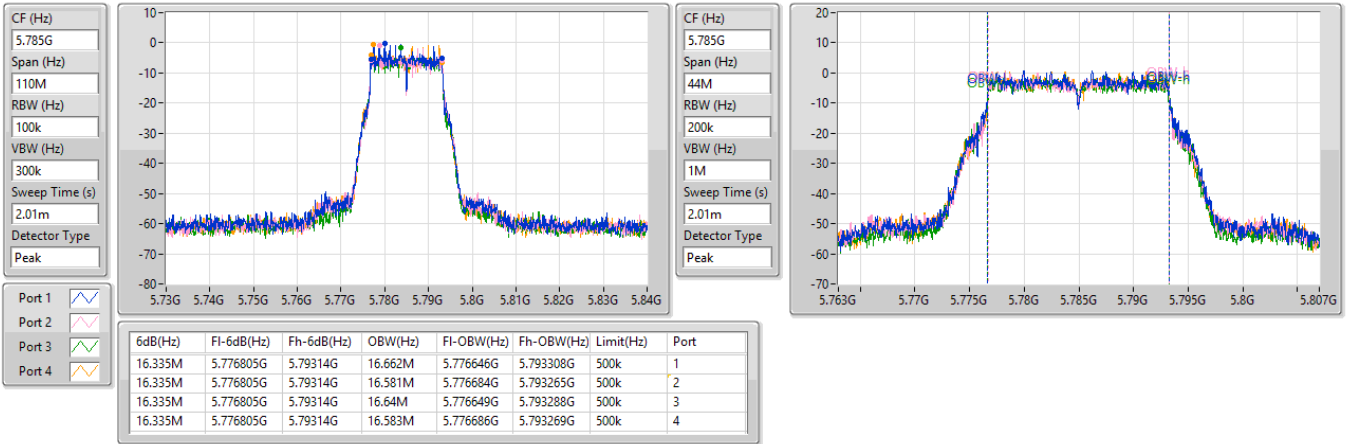

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

26/05/2026



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

26/05/2026


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

26/05/2026

