



RADIO TEST REPORT

FCC ID : MSQ-RTBE7000
Equipment : BE7200 Dual Band Wi-Fi Router
Brand Name : ASUS
Model Name : RT-BE88U, RT-BE7200
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 28, 2023, and testing was started from Dec. 21, 2023 and completed on Feb. 21, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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Photographs of EUT v01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

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/matrix manufacturer 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: **Muse Chan**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20), 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]

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



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11be EHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.15-5.25GHz	802.11be EHT80	80	4TX
5.15-5.25GHz	802.11be EHT80-BF	80	4TX
5.15-5.35GHz	802.11ac VHT160	160	4TX
5.15-5.35GHz	802.11ac VHT160-BF	160	4TX
5.15-5.35GHz	802.11ax HEW160	160	4TX
5.15-5.35GHz	802.11ax HEW160-BF	160	4TX
5.15-5.35GHz	802.11be EHT160	160	4TX
5.15-5.35GHz	802.11be EHT160-BF	160	4TX
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.15-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11be EHT20	20	4TX
5.25-5.35GHz	802.11be EHT20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11be EHT40	40	4TX
5.25-5.35GHz	802.11be EHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.25-5.35GHz	802.11be EHT80	80	4TX
5.25-5.35GHz	802.11be EHT80-BF	80	4TX
5.47-5.725GHz	802.11a	20	4TX



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11n HT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11be EHT20	20	4TX
5.47-5.725GHz	802.11be EHT20-BF	20	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11n HT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11be EHT40	40	4TX
5.47-5.725GHz	802.11be EHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11be EHT80	80	4TX
5.47-5.725GHz	802.11be EHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT160	160	4TX
5.47-5.725GHz	802.11ac VHT160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX
5.47-5.725GHz	802.11be EHT160	160	4TX
5.47-5.725GHz	802.11be EHT160-BF	160	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11be EHT20	20	4TX
5.725-5.85GHz	802.11be EHT20-BF	20	4TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11be EHT40	40	4TX
5.725-5.85GHz	802.11be EHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11be EHT80	80	4TX
5.725-5.85GHz	802.11be EHT80-BF	80	4TX

Note:

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



1.1.2 Antenna Information

Set	Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
		2.4GHz	5GHz					
1	1	4	1	M.gear	C660-510411-A	Dipole Antenna	Reversed-SMA	Note 1
	2	3	2				Reversed-SMA	
	3	2	3				Reversed-SMA	
	4	1	4				Reversed-SMA	
2	1	4	1	PSA	RFDPA171300SBLB820	Dipole Antenna	Reversed-SMA	
	2	3	2				Reversed-SMA	
	3	2	3				Reversed-SMA	
	4	1	4				Reversed-SMA	

Note 1:

Set	Ant.	Port		Gain (dBi)			Cable loss(dB)		Net Gain (dBi)				
		2.4GHz	5GHz	2.4GHz	5GHz UNII 1/ UNII 2A	5GHz UNII 2C	5GHz UNII 3	2.4GHz	5GHz	2.4GHz	5GHz UNII 1/ UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	1	4	1	1.94	2.33	2.35	1.94	0.51	0.86	1.43	1.47	1.49	1.08
	2	3	2					0.41	0.73	1.53	1.6	1.62	1.21
	3	2	3					0.61	1.12	1.33	1.21	1.23	0.82
	4	1	4					0.69	1.2	1.25	1.13	1.15	0.74
2	1	4	1	1.85	2.24	2.32	1.86	0.51	0.86	1.34	1.38	1.46	1
	2	3	2					0.41	0.73	1.44	1.51	1.59	1.13
	3	2	3					0.61	1.12	1.24	1.12	1.2	0.74
	4	1	4					0.69	1.2	1.16	1.04	1.12	0.66

Note 2: The above information was declared by manufacturer.

Note 3: There's only set 1 selected to test and recorded in the report due to the same antenna type and highest gain.



Note 4: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=0}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] => 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 1.43 \text{ dBi} ; G2 = 1.53 \text{ dBi} ; G3 = 1.33 \text{ dBi} ; G4 = 1.25 \text{ dBi}$$

$$5G \ UNII-1 \ G1 = 1.47 \text{ dBi} ; G2 = 1.60 \text{ dBi} ; G3 = 1.21 \text{ dBi} ; G4 = 1.13 \text{ dBi}$$

$$5G \ UNII-2A \ G1 = 1.47 \text{ dBi} ; G2 = 1.60 \text{ dBi} ; G3 = 1.21 \text{ dBi} ; G4 = 1.13 \text{ dBi}$$

$$5G \ UNII-2C \ G1 = 1.49 \text{ dBi} ; G2 = 1.62 \text{ dBi} ; G3 = 1.23 \text{ dBi} ; G4 = 1.15 \text{ dBi}$$

$$5G \ UNII-3 \ G1 = 1.08 \text{ dBi} ; G2 = 1.21 \text{ dBi} ; G3 = 0.82 \text{ dBi} ; G4 = 0.74 \text{ dBi}$$

Nss1

$$2.4G \ DG = 7.41 \text{ dBi}$$

$$5G \ UNII-1 \ DG = 7.38 \text{ dBi}$$

$$5G \ UNII-2A \ DG = 7.38 \text{ dBi}$$

$$5G \ UNII-2C \ DG = 7.40 \text{ dB}$$

$$5G \ UNII-3 \ DG = 6.99 \text{ dBi}$$

Nss2

$$2.4G \ DG = 4.40 \text{ dBi}$$

$$5G \ UNII-1 \ DG = 4.37 \text{ dBi}$$

$$5G \ UNII-2A \ DG = 4.37 \text{ dBi}$$

$$5G \ UNII-2C \ DG = 4.39 \text{ dB}$$

$$5G \ UNII-3 \ DG = 3.98 \text{ dBi}$$



Note 5: For 2.4GHz function:

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

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Table with 5 columns: Mode, DC, DCF(dB), T(s), VBW(Hz) ≥ 1/T. Rows include 802.11a, 802.11be EHT20-BF, 802.11be EHT40-BF, 802.11be EHT80-BF, and 802.11be EHT160-BF.

Note: DC is Duty Cycle. DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

Table with 4 columns for EUT Power Type, Beamforming Function, Weather Band, Function, TPC Function, Channel Puncturing Function, Support RU, and Test Software Version.

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

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

Brand Name	Model Name	Description
ASUS	RT-BE88U	All the models are identical, the difference model for difference model served as marketing strategy.
	RT-BE7200	

Note 1: From the above models, model: RT-BE88U was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Supports Functions

Function	Support Type
AP Router	Master
Bridge	Slave without radar detection
Repeater	Master
Mesh	Master

Note 1: After evaluating, AP Router mode was selected to test and recorded in the report.

Note 2: The USB port on this device supports both storage and WWAN functionality.

Note 3: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

- ♦ FCC KDB 662911 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	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Ken Yeh	22.6-24.3 / 53-66	Dec. 26, 2023~ Jan. 03, 2024
Radiated Below 1G	03CH05-CB	Gordon Hung	22-23 / 55-58	Dec. 21, 2023~ Jan. 17, 2024
	03CH06-CB		22.7-23.8 / 56-59	
Radiated Above 1G	03CH03-CB		22.4-23.5 / 55-58	
	03CH06-CB		22.7-23.8 / 56-59	
Radiated co-location emission	03CH06-CB		22.7-23.8 / 56-59	
AC Conduction	CO01-CB	Gray Lee	21-22 / 62-63	Dec. 26, 2023~ Feb. 21, 2024

1.4 Measurement Uncertainty

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

Parameter	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
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-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



Mode
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
802.11be EHT20-BF_Nss2,(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_Nss2,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz



Mode
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss2,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss2,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

Note:

- ♦ EHT20 / EHT40 / EHT80 / EHT160 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HEW20 / HEW40 / HEW80 / HEW160 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HEW20 / HEW40 / HEW80 / HEW160 is the same or lower than EHT20 / EHT40 / EHT80 / EHT160.
- ♦ The EUT supports non-beamforming and beamforming modes. After evaluating, the beamforming mode was selected to test.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	AP Router / WAN mode_EUT-WAN/LAN(WAN) + WAN/LAN1(LAN) + LAN5(LAN) + USB(R/W) + Adapter 1 with power cord + RJ-45 cable 1
2	AP Router / WAN mode_EUT-WAN/LAN1(WAN) + WAN/LAN(LAN) + LAN5(LAN) + USB(R/W) + Adapter 1 with power cord + RJ-45 cable 1
3	AP Router / WWAN mode_EUT-WAN/LAN(LAN) + WAN/LAN1(LAN) + LAN5(LAN) + USB(WWAN) + Adapter 1 with power cord + RJ-45 cable 1
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	AP Router / WAN mode_EUT-WAN/LAN(WAN) + WAN/LAN1(LAN) + LAN5(LAN) + USB(R/W) + Adapter 2 + RJ-45 cable 1
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.



Operating Mode < 1GHz	CTX
	After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Z axis + Adapter 1 with power cord + RJ-45 cable 1_WLAN 2.4GHz
2	EUT in Z axis + Adapter 1 with power cord + RJ-45 cable 2_WLAN 2.4GHz
3	EUT in Z axis + Adapter 1 with power cord + RJ-45 cable 3_WLAN 2.4GHz
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Z axis + Adapter 2 + RJ-45 cable 2_WLAN 2.4GHz
Mode 2 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	EUT in Z axis + Adapter 1 with power cord + RJ-45 cable 2_WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Z axis_WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
2	WLAN 2.4GHz + WLAN 5GHz + WWAN
Refer to Sporton Test Report No.: FA382332 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.
The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS [ver 6.1.7601].
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	DC Power Line
Adapter 1	ACBEL	ADH011	Input: 100-240V~1.4A, 50-60Hz Output: 19.5V, 2.31A, 45.0W MAX.	Non-shielded, 1.5m
Adapter 2	LEADER	MU60B3120500-A1	Input: 100V-240V~50/60Hz, 1.5A Output: 12.0V, 5.0A	-
Others				
Power cord*1: Non-shielded, 0.8m for Adapter 1 use				
RJ-45 cable 1*1: Shielded, 1.5m				
RJ-45 cable 2*1: Shielded, 1.5m				
RJ-45 cable 3*1: Shielded, 1.5m				



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	SFP + PC	ASUS	S300TA	TX2-RTL8821CE
B	WAN PC	ASUS	S300TA	TX2-RTL8821CE
C	2.5G LAN1 PC	ASUS	S300TA	TX2-RTL8821CE
D	2.4G NB	DELL	E6430	N/A
E	2.5G LAN4 PC	ASUS	S300TA	TX2-RTL8821CE
F	1G LAN5 NB	DELL	E6430	N/A
G	1G LAN8 NB	DELL	E6430	N/A
H	Transceiver	TP-link	TL-SM5310-T	N/A
I	Flash disk3.0	Transcend	JetFlash-700	N/A
J	5G NB	DELL	E6430	N/A

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

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

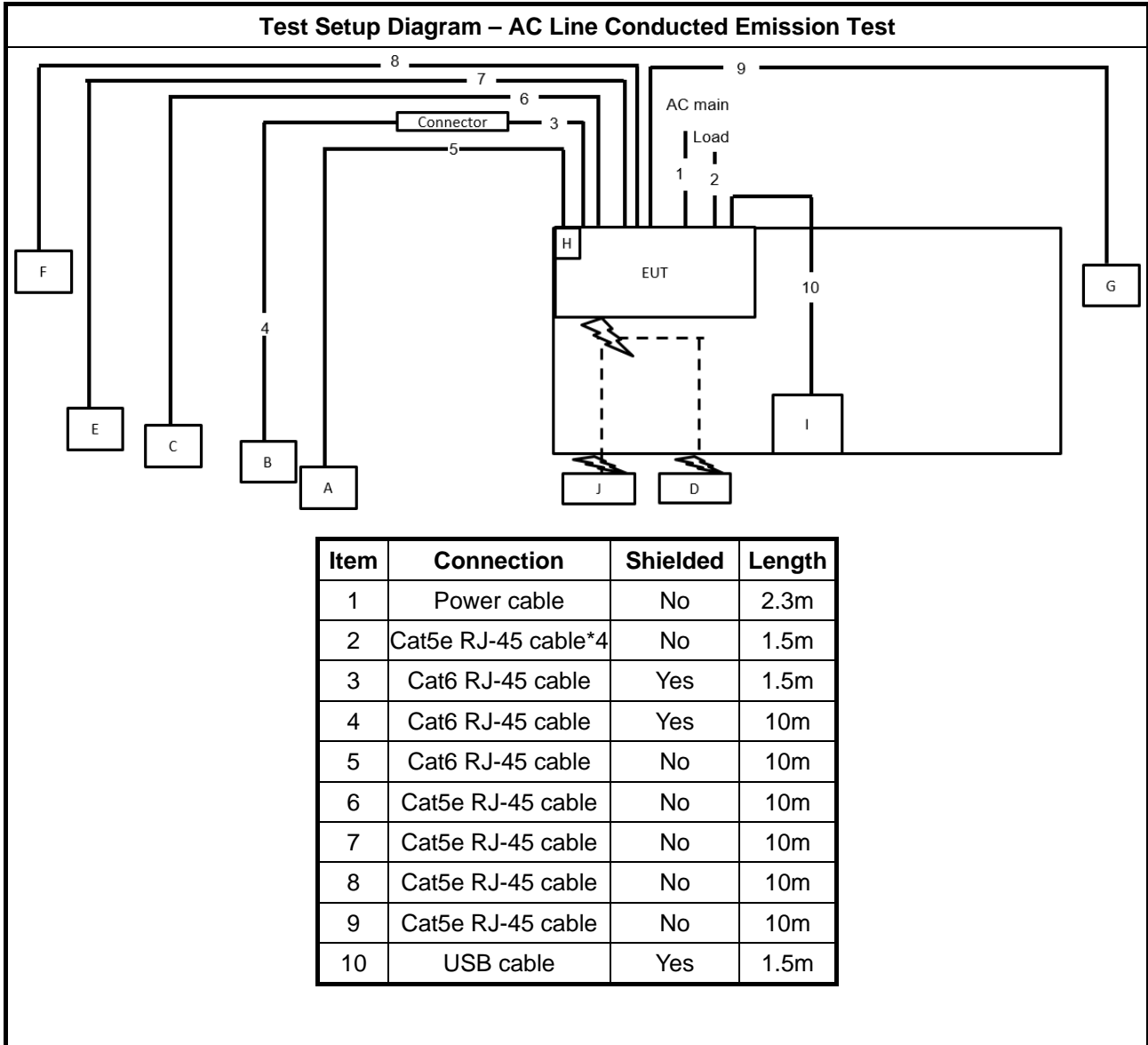
For Radiated (above 1GHz) <Beamforming mode>:

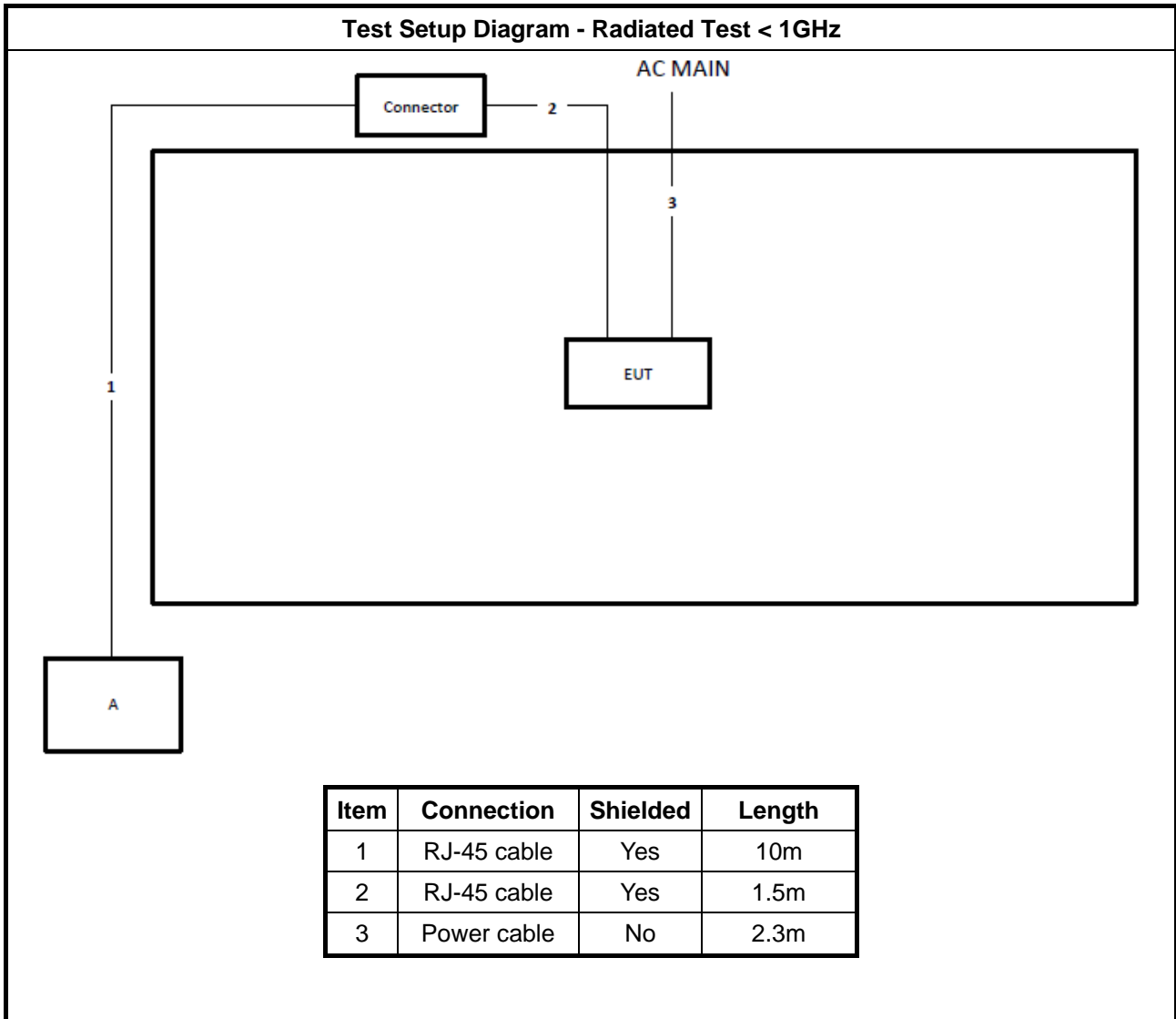
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Device	ASUS	RT-BE88U	MSQ-RTBE7000
C	NB	DELL	E4300	N/A

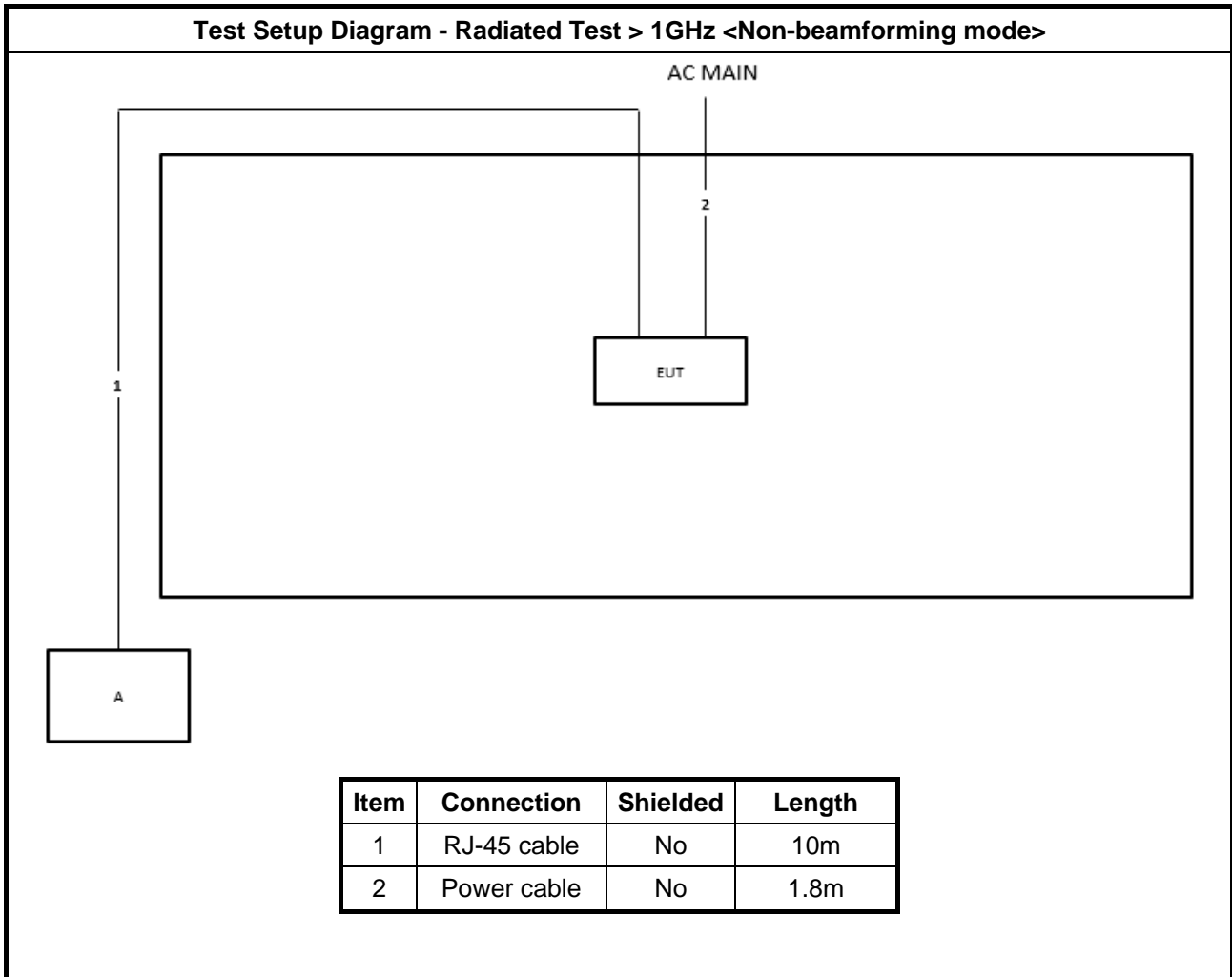
For RF Conducted:

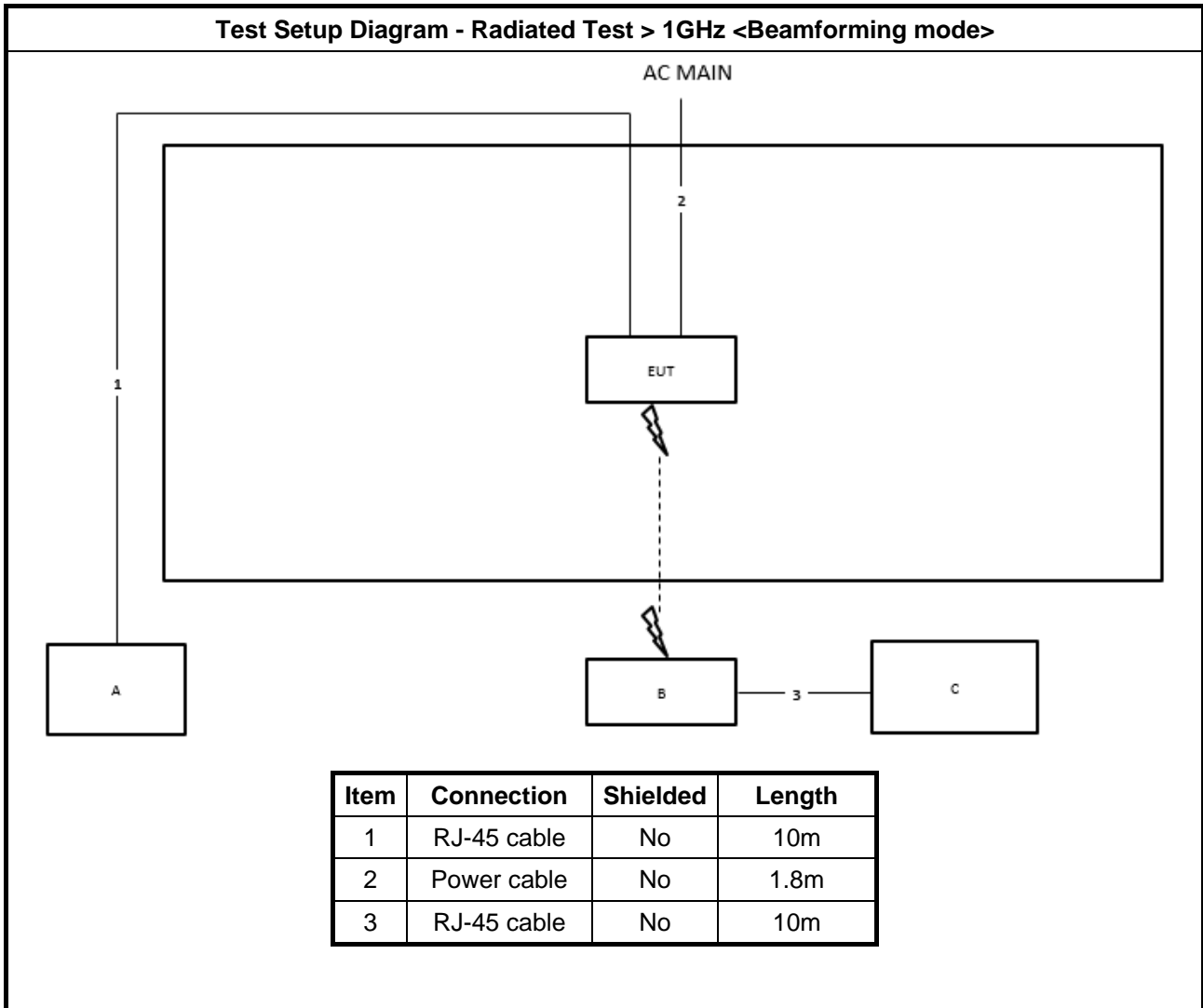
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram











3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

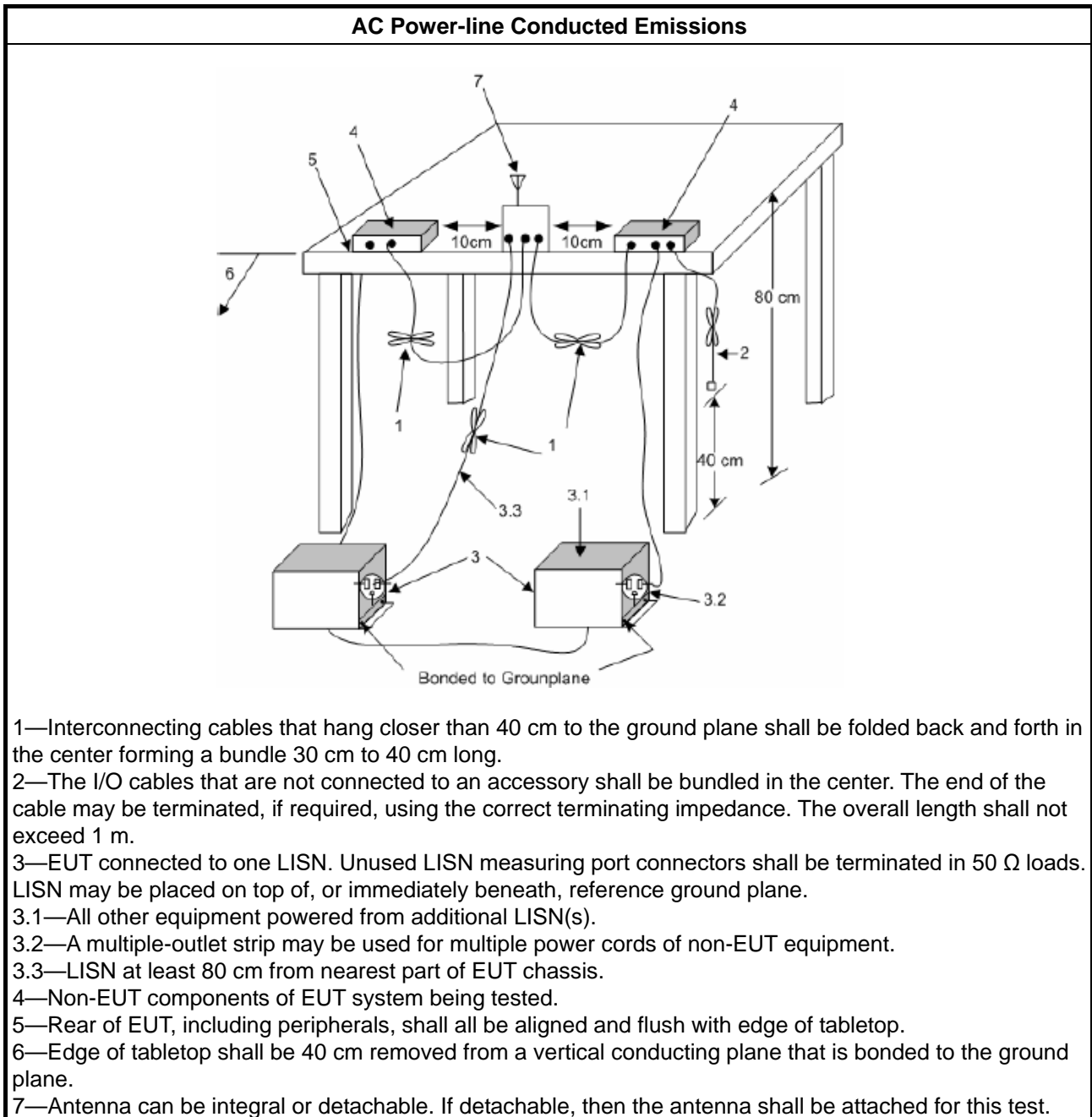
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices	
<input type="checkbox"/>	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.
<input type="checkbox"/>	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
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

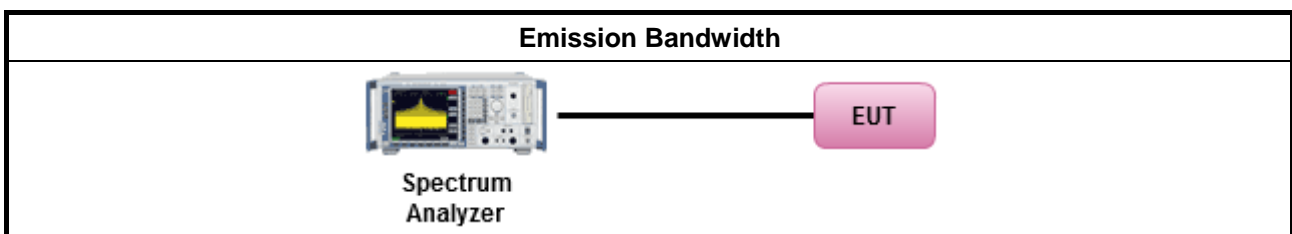
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> 		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm] ▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ ▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
<input type="checkbox"/> 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	
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

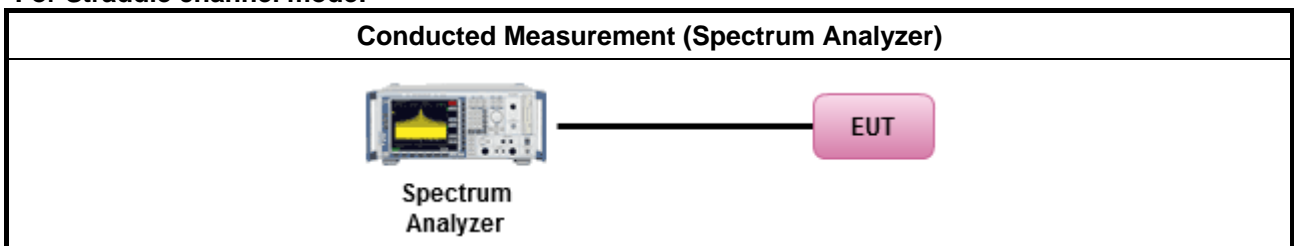
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

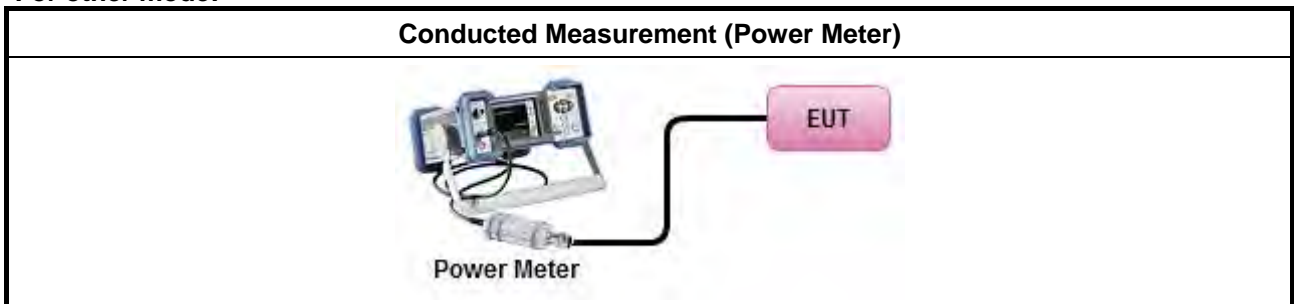
Test Method	
	Average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

For Straddle channel mode:



For other mode:





3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	<ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta-8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta-40$) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.4.2 Measuring Instruments

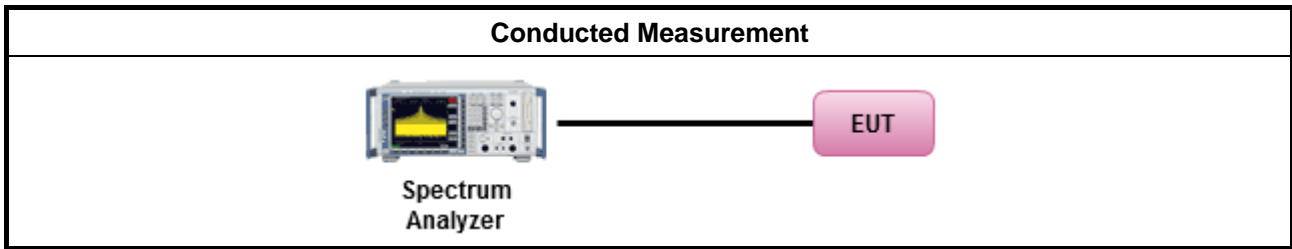
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/>	Refer as 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]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/>	For conducted measurement.
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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,
<input type="checkbox"/>	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.
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	
<input type="checkbox"/>	For radiated measurement.
<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" 	
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. 	
<ul style="list-style-type: none"> ▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation. 	

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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



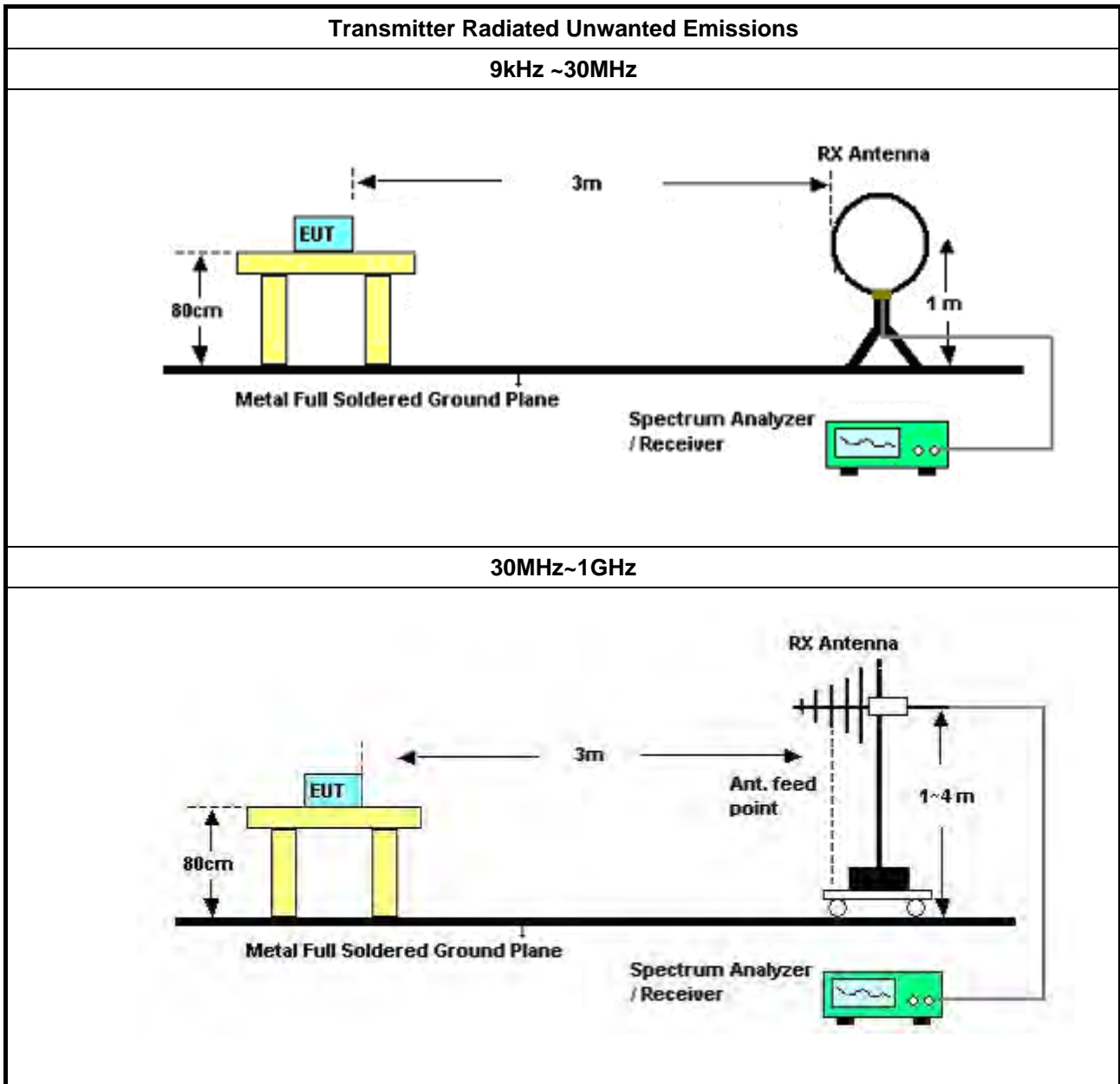
3.5.2 Measuring Instruments

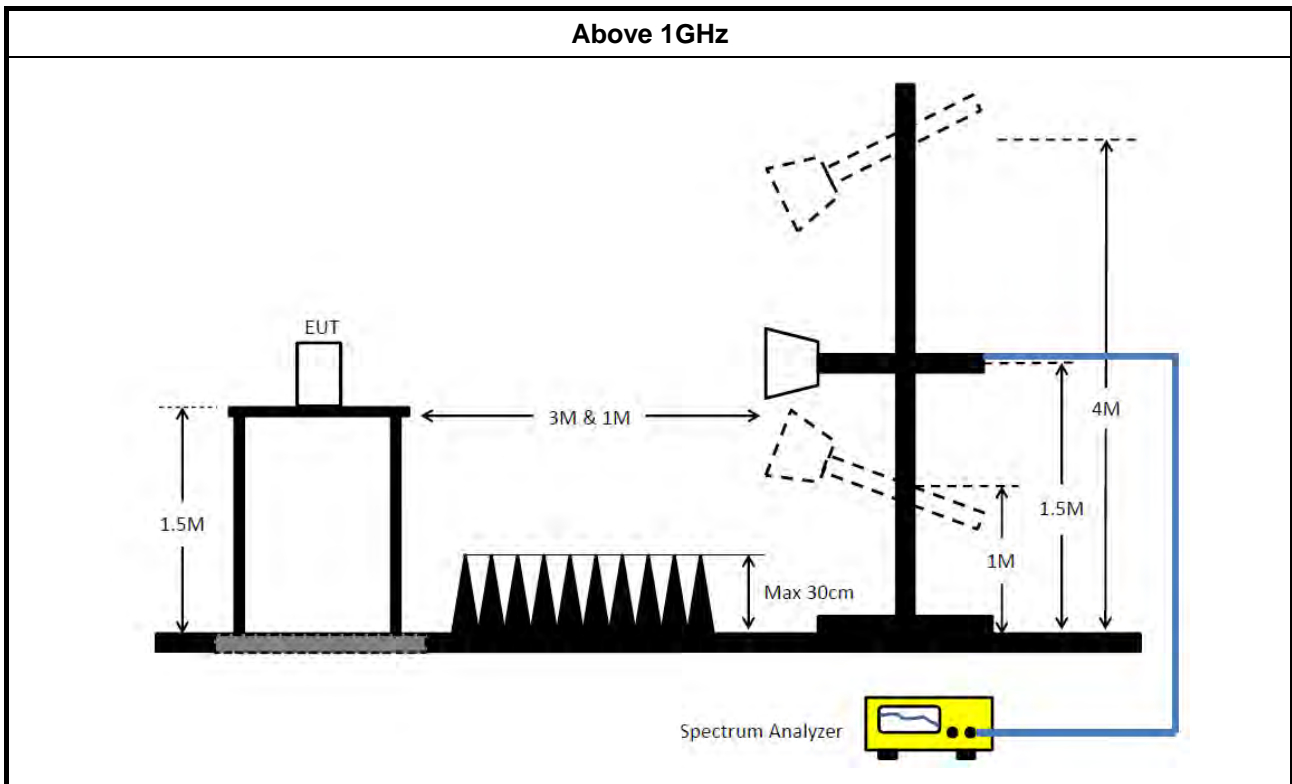
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). 	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For radiated measurement. 	
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 18, 2023	May 17, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz~100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 29, 2023	Dec. 28, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz~1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz~2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz~1 GHz	Aug. 03, 2023	Aug. 02, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 30, 2023	Jul. 29, 2024	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 03, 2023	Nov. 02, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz~26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz~40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz~2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS · Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Nov. 07, 2023	Nov. 06, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Nov. 07, 2023	Nov. 06, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

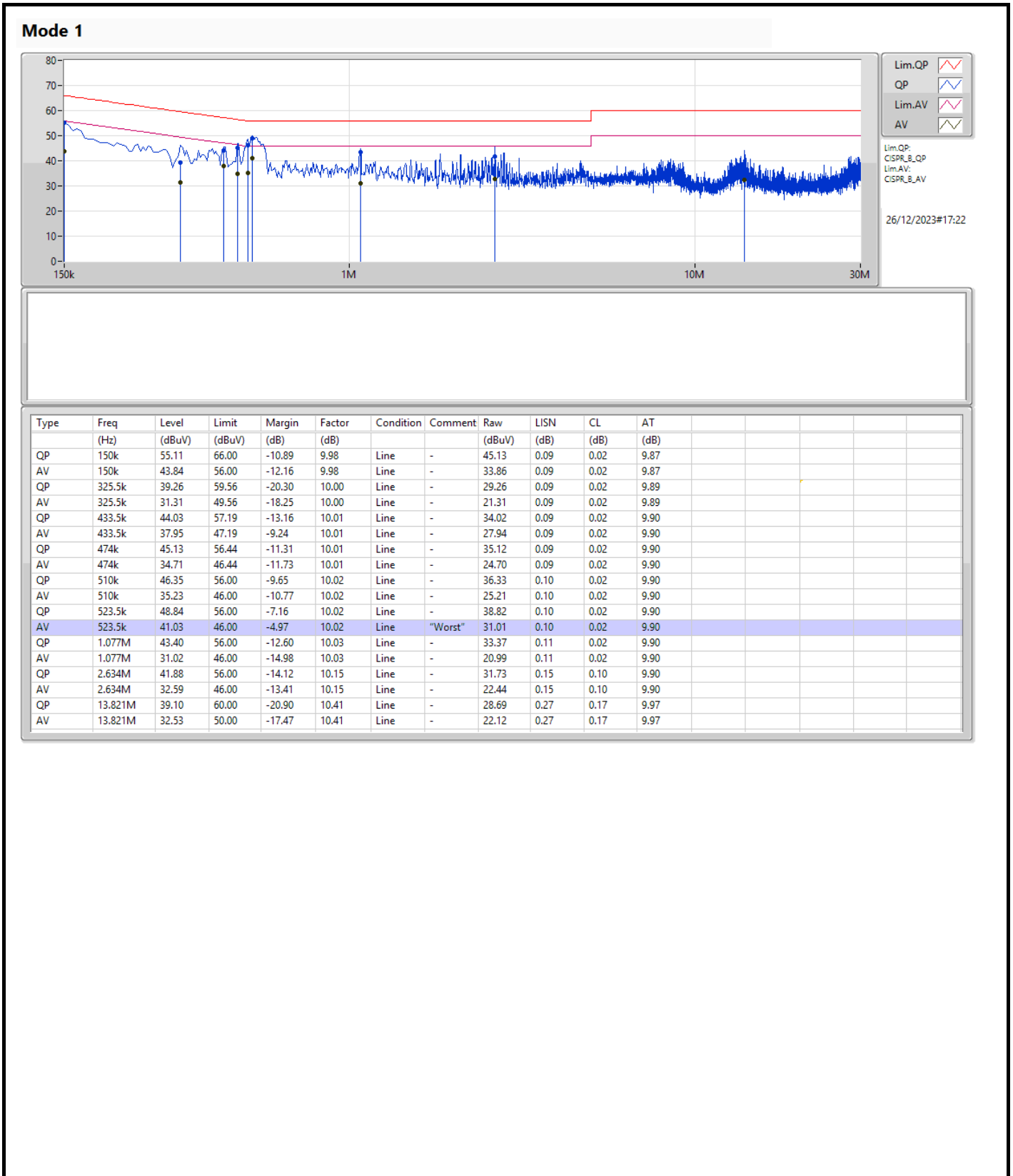
Note: Calibration Interval of instruments listed above is one year.

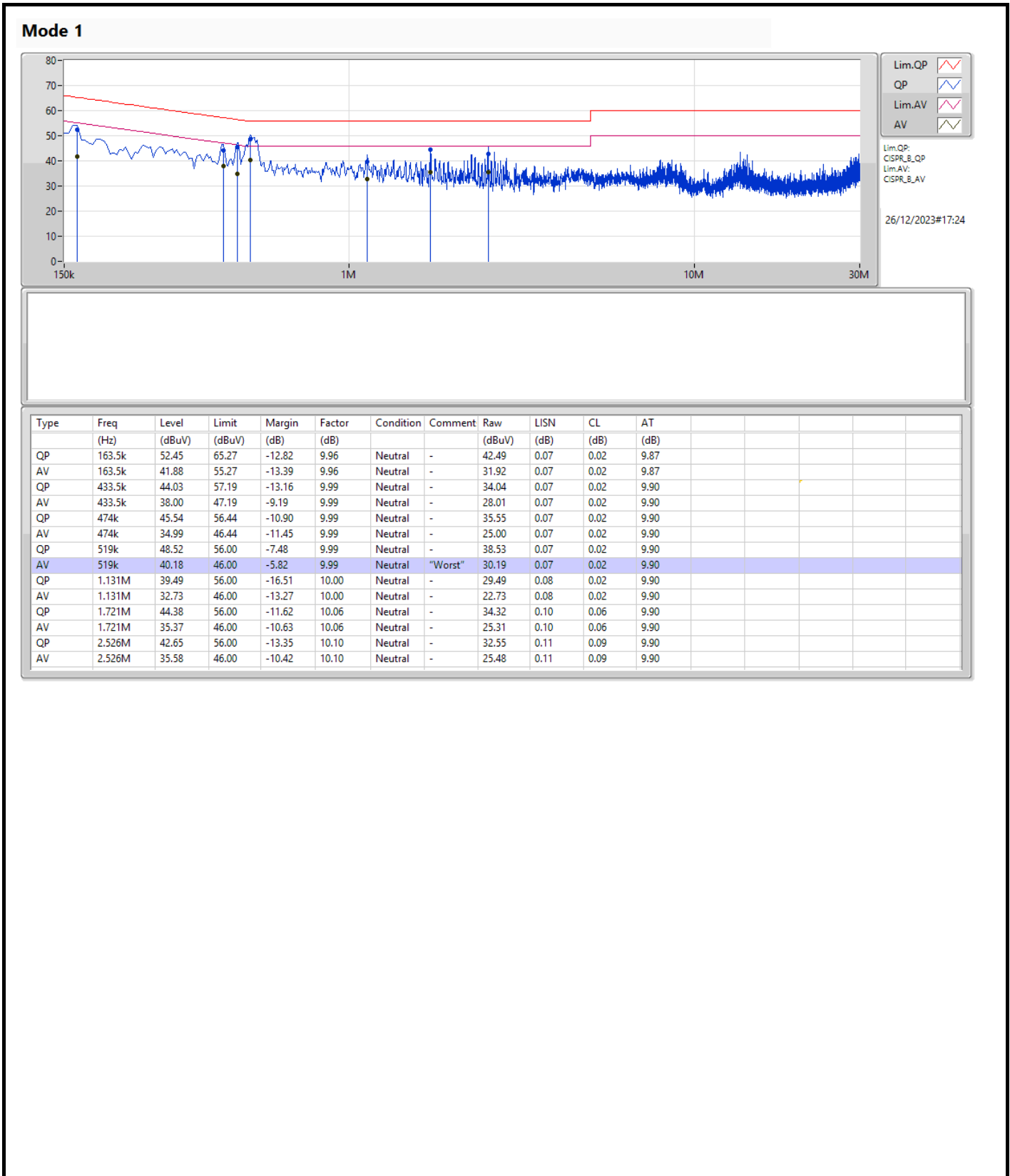
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	523.5k	41.03	46.00	-4.97	Line





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.88M	16.959M	17MOD1D	20.405M	16.524M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	28.82M	19.126M	19M1D1D	20.13M	19.012M
802.11be EHT20-BF_Nss2,(MCS0)_4TX	24.145M	19.198M	19M2D1D	20.515M	18.955M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	46.64M	38.123M	38M1D1D	39.38M	37.653M
802.11be EHT40-BF_Nss2,(MCS0)_4TX	44.55M	38.008M	38MOD1D	39.05M	37.579M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	83.6M	77.627M	77M6D1D	81.4M	77.083M
802.11be EHT80-BF_Nss2,(MCS0)_4TX	85.36M	77.279M	77M3D1D	80.3M	77.059M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	80M	77.538M	77M5D1D	79.92M	77.122M
802.11be EHT160-BF_Nss2,(MCS0)_4TX	80.96M	77.268M	77M3D1D	80M	76.824M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.495M	16.978M	17MOD1D	20.68M	16.53M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	24.09M	19.167M	19M2D1D	20.735M	18.961M
802.11be EHT20-BF_Nss2,(MCS0)_4TX	23.595M	19.1M	19M1D1D	20.46M	18.928M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	45.65M	37.925M	37M9D1D	39.27M	37.609M
802.11be EHT40-BF_Nss2,(MCS0)_4TX	54.01M	37.851M	37M9D1D	38.94M	37.676M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	84.26M	77.25M	77M3D1D	81.4M	77.173M
802.11be EHT80-BF_Nss2,(MCS0)_4TX	84.7M	77.572M	77M6D1D	80.08M	77.29M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	81.28M	77.223M	77M2D1D	79.92M	76.923M
802.11be EHT160-BF_Nss2,(MCS0)_4TX	80.72M	77.409M	77M4D1D	79.92M	77.009M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.935M	17.199M	17M2D1D	15.225M	13.255M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	26.565M	19.175M	19M2D1D	15.27M	14.466M
802.11be EHT20-BF_Nss2,(MCS0)_4TX	23.485M	19.174M	19M2D1D	15.345M	14.413M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	53.02M	37.957M	38MOD1D	34.58M	33.653M
802.11be EHT40-BF_Nss2,(MCS0)_4TX	49.17M	37.93M	37M9D1D	34.615M	33.534M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	90.86M	77.353M	77M4D1D	75.075M	72.892M
802.11be EHT80-BF_Nss2,(MCS0)_4TX	84.7M	77.393M	77M4D1D	74.7M	72.97M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	163.24M	156.632M	157MD1D	161.92M	155.556M
802.11be EHT160-BF_Nss2,(MCS0)_4TX	163.24M	156.695M	157MD1D	161.92M	156.171M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.555M	16.912M	16M9D1D	3.24M	3.909M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	19.14M	19.189M	19M2D1D	4.52M	4.536M
802.11be EHT20-BF_Nss2,(MCS0)_4TX	19.14M	19.264M	19M3D1D	4.46M	4.534M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	38.17M	38.008M	38MOD1D	4.02M	4.053M
802.11be EHT40-BF_Nss2,(MCS0)_4TX	38.06M	38.129M	38M1D1D	3.58M	4.046M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	78.1M	77.381M	77M4D1D	2.82M	4.058M
802.11be EHT80-BF_Nss2,(MCS0)_4TX	77.88M	77.452M	77M5D1D	3.62M	4.052M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.88M	16.763M	21.285M	16.807M	21.615M	16.666M	21.34M	16.679M
5200MHz	Pass	Inf	20.955M	16.777M	20.625M	16.605M	20.405M	16.693M	20.955M	16.524M
5240MHz	Pass	Inf	21.12M	16.714M	20.625M	16.562M	20.625M	16.588M	20.625M	16.959M
5260MHz	Pass	Inf	20.845M	16.689M	20.79M	16.802M	20.955M	16.53M	21.285M	16.623M
5300MHz	Pass	Inf	20.68M	16.805M	20.735M	16.978M	20.735M	16.609M	20.955M	16.834M
5320MHz	Pass	Inf	21.45M	16.73M	21.56M	16.623M	22.495M	16.79M	21.67M	16.864M
5500MHz	Pass	Inf	21.56M	17.199M	21.945M	16.768M	21.175M	16.91M	22.935M	17.062M
5580MHz	Pass	Inf	20.57M	16.567M	20.625M	16.682M	20.9M	16.596M	20.57M	16.773M
5700MHz	Pass	Inf	21.01M	16.545M	21.23M	16.61M	20.9M	16.557M	20.24M	16.579M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.48M	13.628M	15.225M	13.402M	15.24M	13.438M	15.54M	13.255M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.28M	3.913M	3.26M	3.974M	3.26M	3.909M	3.24M	4.112M
5745MHz	Pass	500k	16.5M	16.912M	16.555M	16.835M	16.555M	16.742M	16.39M	16.864M
5785MHz	Pass	500k	16.555M	16.761M	16.555M	16.792M	16.445M	16.555M	16.555M	16.756M
5825MHz	Pass	500k	16.5M	16.506M	16.555M	16.7M	16.445M	16.704M	16.5M	16.739M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	28.82M	19.083M	22.165M	19.049M	24.585M	19.043M	24.585M	19.126M
5200MHz	Pass	Inf	20.13M	19.03M	21.34M	19.043M	20.735M	19.018M	20.625M	19.012M
5240MHz	Pass	Inf	21.065M	19.012M	21.065M	19.051M	21.23M	19.085M	20.845M	19.101M
5260MHz	Pass	Inf	20.845M	19.013M	21.23M	19.116M	20.955M	19.133M	20.735M	19.05M
5300MHz	Pass	Inf	20.79M	18.977M	21.12M	19.071M	20.735M	19.013M	21.56M	18.961M
5320MHz	Pass	Inf	21.67M	19.112M	24.09M	19.12M	22.11M	19.167M	21.45M	19.042M
5500MHz	Pass	Inf	25.85M	19.175M	26.565M	19.031M	23.155M	19.119M	21.065M	19.058M
5580MHz	Pass	Inf	21.23M	18.994M	21.56M	19.13M	20.955M	19.076M	20.955M	19.009M
5700MHz	Pass	Inf	21.01M	19.013M	20.955M	19.139M	20.955M	19.07M	20.625M	18.939M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.27M	14.484M	15.405M	14.469M	15.765M	14.466M	15.66M	14.493M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.52M	4.552M	4.52M	4.552M	4.58M	4.536M	4.56M	4.658M
5745MHz	Pass	500k	19.085M	19.046M	19.03M	19.054M	19.14M	19.189M	19.14M	19.015M
5785MHz	Pass	500k	19.085M	19.153M	19.085M	18.99M	19.085M	19.038M	19.085M	18.958M
5825MHz	Pass	500k	19.14M	19.019M	19.085M	19.035M	19.085M	18.953M	19.085M	18.972M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	46.64M	37.794M	42.79M	37.872M	45.87M	38.123M	43.78M	37.684M
5230MHz	Pass	Inf	39.6M	37.741M	39.38M	37.704M	39.93M	37.88M	39.38M	37.653M
5270MHz	Pass	Inf	39.27M	37.855M	39.71M	37.609M	39.82M	37.692M	39.71M	37.698M
5310MHz	Pass	Inf	41.58M	37.864M	45.65M	37.663M	43.89M	37.925M	41.14M	37.843M
5510MHz	Pass	Inf	53.02M	37.915M	43.23M	37.709M	40.04M	37.957M	40.92M	37.742M
5550MHz	Pass	Inf	39.27M	37.762M	39.38M	37.612M	39.38M	37.768M	39.82M	37.592M
5670MHz	Pass	Inf	40.15M	37.7M	38.94M	37.783M	39.27M	37.721M	39.6M	37.709M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.86M	33.775M	34.58M	33.692M	35M	33.715M	34.895M	33.653M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.065M	4.04M	4.076M	4.02M	4.058M	4.06M	4.053M
5755MHz	Pass	500k	37.95M	37.842M	38.17M	37.746M	38.06M	37.927M	38.17M	38.008M
5795MHz	Pass	500k	37.95M	37.826M	38.06M	37.608M	37.84M	37.693M	37.84M	37.751M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.6M	77.389M	81.4M	77.627M	81.84M	77.083M	82.28M	77.476M
5290MHz	Pass	Inf	81.4M	77.241M	83.6M	77.173M	84.26M	77.219M	84.04M	77.25M
5530MHz	Pass	Inf	80.3M	76.838M	83.6M	76.929M	83.38M	76.919M	90.86M	77.064M
5610MHz	Pass	Inf	80.96M	77.353M	80.08M	76.971M	80.74M	77.017M	80.3M	77.31M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.075M	73.362M	75.3M	72.892M	75.9M	73.094M	75.3M	73.365M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.071M	4.02M	4.066M	4.06M	4.083M	2.82M	4.058M
5775MHz	Pass	500k	77.66M	77.381M	78.1M	77.304M	78.1M	77.257M	77.66M	77.183M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80M	77.349M	79.92M	77.122M	80M	77.483M	80M	77.538M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.4M	77.159M	81.28M	76.923M	79.92M	77.223M	80.08M	76.984M
5570MHz	Pass	Inf	161.92M	155.556M	162.8M	156.632M	162.8M	156.436M	163.24M	155.889M
802.11be EHT20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-

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	21.67M	18.969M	24.145M	18.955M	23.045M	19.198M	23.375M	19.075M
5200MHz	Pass	Inf	21.175M	18.991M	20.955M	19.049M	20.625M	18.961M	21.065M	19.164M
5240MHz	Pass	Inf	20.845M	19.115M	21.065M	19M	20.735M	18.969M	20.515M	19.058M
5260MHz	Pass	Inf	21.56M	18.99M	20.845M	19.02M	21.395M	18.965M	20.79M	18.928M
5300MHz	Pass	Inf	20.46M	19.097M	21.065M	18.979M	21.12M	19.009M	21.12M	18.951M
5320MHz	Pass	Inf	22M	19.001M	23.595M	19.1M	21.835M	19.014M	21.615M	19.094M
5500MHz	Pass	Inf	22.33M	19.107M	23.485M	19.009M	22.275M	19.023M	21.395M	19.174M
5580MHz	Pass	Inf	21.175M	19.065M	20.79M	19.012M	20.625M	19.02M	21.34M	18.939M
5700MHz	Pass	Inf	21.065M	19.03M	21.34M	18.999M	20.9M	19.072M	20.57M	19.026M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.915M	14.537M	15.555M	14.473M	15.345M	14.482M	15.585M	14.413M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.58M	4.534M	4.52M	4.568M	4.46M	4.568M	4.52M	4.568M
5745MHz	Pass	500k	19.085M	19.064M	19.14M	19.252M	18.535M	19.074M	19.03M	19.264M
5785MHz	Pass	500k	19.085M	19.004M	19.085M	19.015M	19.03M	19.005M	19.14M	19.078M
5825MHz	Pass	500k	18.48M	19.064M	19.14M	18.918M	19.085M	19.014M	19.085M	19.035M
802.11be EHT40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.81M	38.008M	44.55M	37.736M	43.34M	37.877M	41.8M	37.895M
5230MHz	Pass	Inf	39.05M	37.579M	39.6M	37.779M	39.93M	37.755M	39.27M	37.672M
5270MHz	Pass	Inf	38.94M	37.712M	39.38M	37.676M	39.49M	37.728M	39.49M	37.68M
5310MHz	Pass	Inf	54.01M	37.841M	42.24M	37.851M	43.67M	37.681M	41.91M	37.831M
5510MHz	Pass	Inf	49.17M	37.777M	41.36M	37.816M	42.35M	37.87M	47.74M	37.93M
5550MHz	Pass	Inf	38.94M	37.8M	39.6M	37.677M	39.6M	37.9M	39.49M	37.67M
5670MHz	Pass	Inf	39.49M	37.861M	39.71M	37.584M	39.05M	37.449M	39.82M	37.84M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.615M	33.752M	34.79M	33.602M	34.825M	33.534M	34.79M	33.666M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.58M	4.062M	4.02M	4.063M	4.02M	4.046M	4.08M	4.07M
5755MHz	Pass	500k	37.95M	37.854M	37.95M	37.785M	37.84M	37.722M	38.06M	37.811M
5795MHz	Pass	500k	37.84M	37.864M	38.06M	37.696M	38.06M	37.867M	38.06M	38.129M
802.11be EHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	85.36M	77.279M	82.28M	77.15M	80.3M	77.251M	81.18M	77.059M
5290MHz	Pass	Inf	80.08M	77.387M	84.7M	77.29M	82.5M	77.572M	81.84M	77.509M
5530MHz	Pass	Inf	83.82M	77.28M	83.16M	77.393M	81.62M	77.058M	84.7M	77.109M
5610MHz	Pass	Inf	80.08M	77.175M	80.74M	77.249M	80.08M	76.647M	81.18M	77.381M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.7M	73.005M	75.075M	73.157M	75.075M	72.97M	74.775M	73.215M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.079M	4.02M	4.052M	3.62M	4.052M	4M	4.06M
5775MHz	Pass	500k	76.78M	77.452M	77.88M	76.87M	77.66M	77.375M	77.66M	77.183M
802.11be EHT160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.08M	76.824M	80.48M	77.268M	80M	77.09M	80.96M	77.159M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.72M	77.242M	79.92M	77.063M	79.92M	77.009M	80M	77.409M
5570MHz	Pass	Inf	161.92M	156.673M	161.92M	156.171M	163.24M	156.695M	161.92M	156.321M

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)_4TX

EBW

5180MHz

29/12/2023

CF (Hz)
5.18G

Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

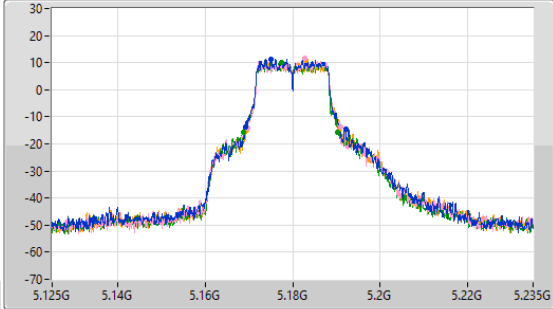
Detector Type
Peak

Port 1

Port 2

Port 3

Port 4



CF (Hz)
5.18G

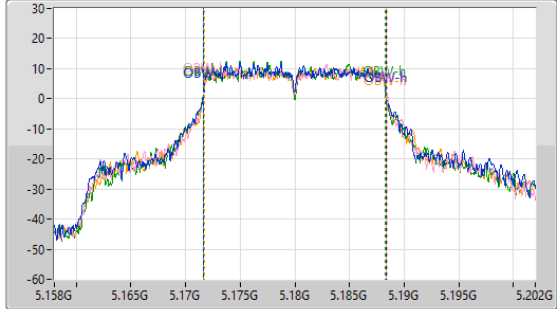
Span (Hz)
44M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.88M	5.16922G	5.1921G	16.763M	5.171646G	5.188409G	Inf	1
21.285M	5.16966G	5.190945G	16.807M	5.171661G	5.188468G	Inf	2
21.615M	5.16878G	5.190395G	16.666M	5.171644G	5.18831G	Inf	3
21.34M	5.169495G	5.190835G	16.679M	5.171694G	5.188373G	Inf	4

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

EBW

5200MHz

26/12/2023

CF (Hz)
5.2G

Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

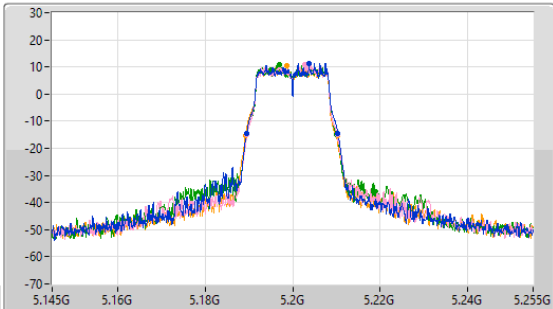
Detector Type
Peak

Port 1

Port 2

Port 3

Port 4



CF (Hz)
5.2G

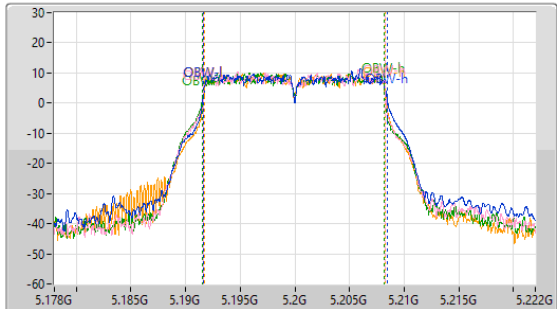
Span (Hz)
44M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



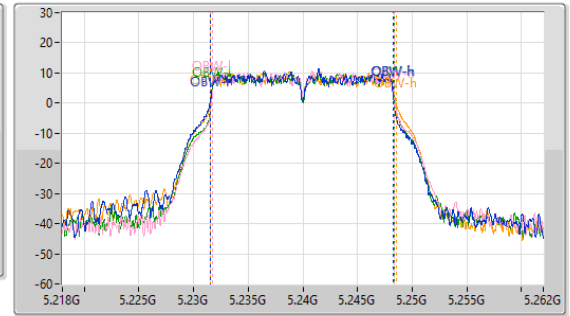
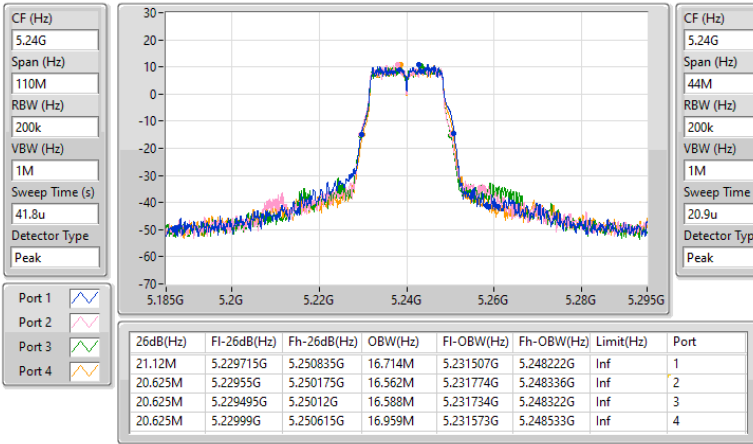
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.955M	5.18944G	5.210395G	16.777M	5.191668G	5.208445G	Inf	1
20.625M	5.18955G	5.210175G	16.605M	5.191634G	5.208238G	Inf	2
20.405M	5.18955G	5.209955G	16.693M	5.191512G	5.208205G	Inf	3
20.955M	5.18922G	5.210175G	16.524M	5.191735G	5.208259G	Inf	4

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

EBW

5240MHz

26/12/2023

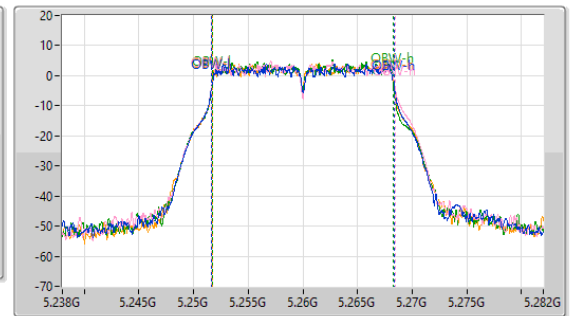
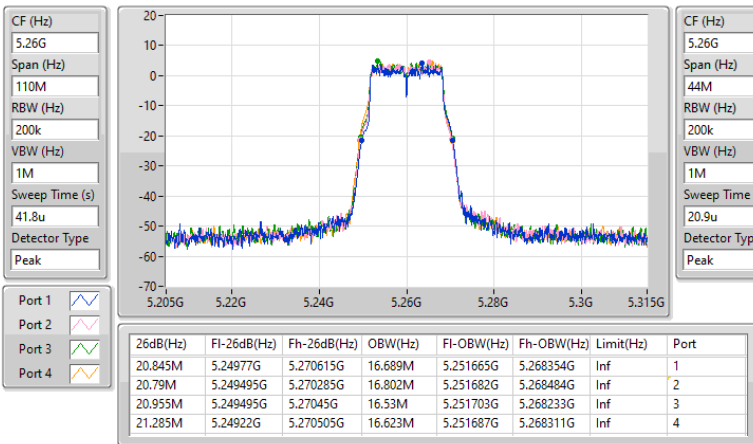


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

26/12/2023

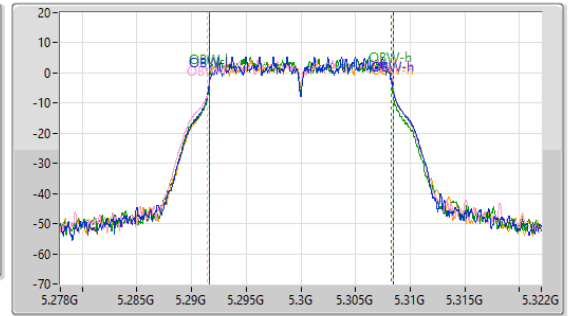
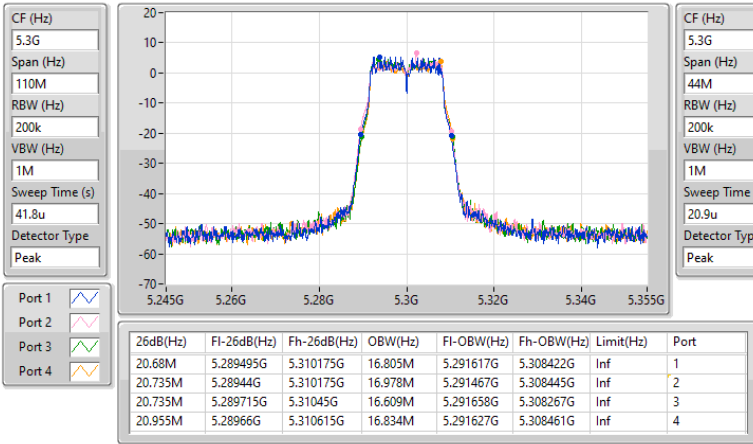


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

26/12/2023

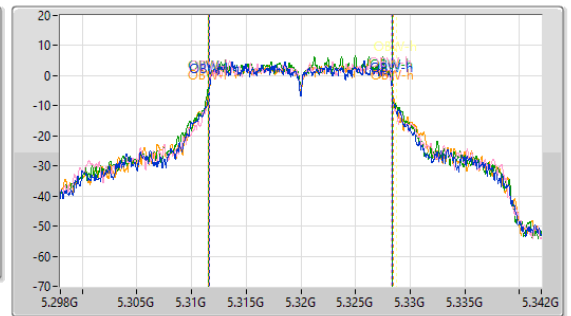
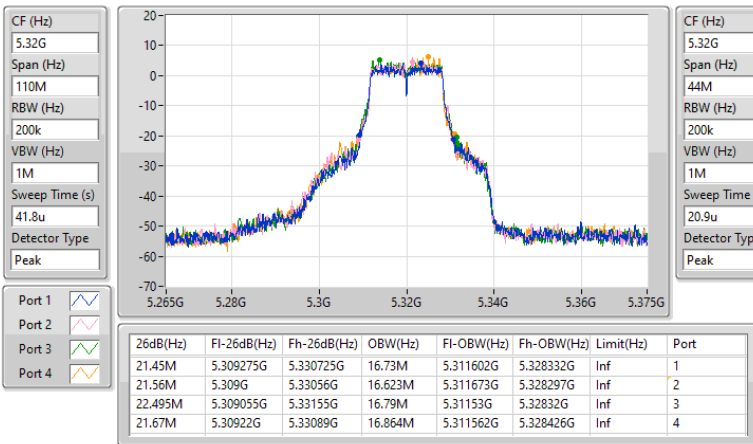


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

26/12/2023

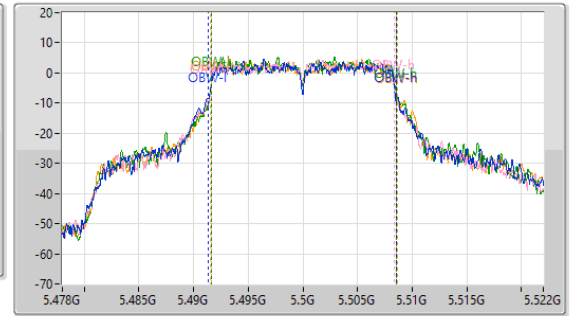
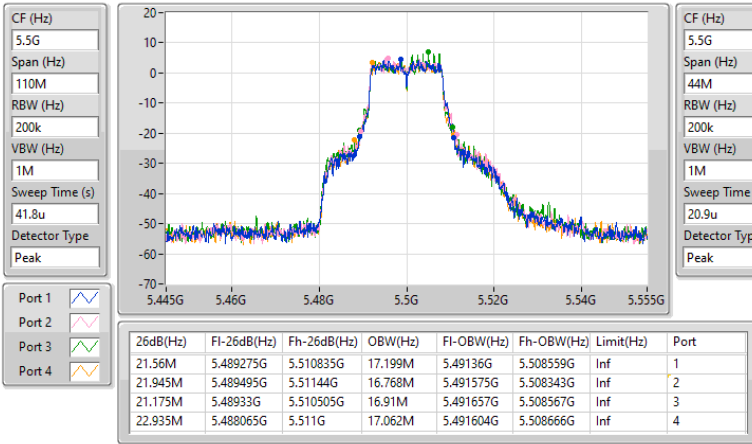


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

26/12/2023

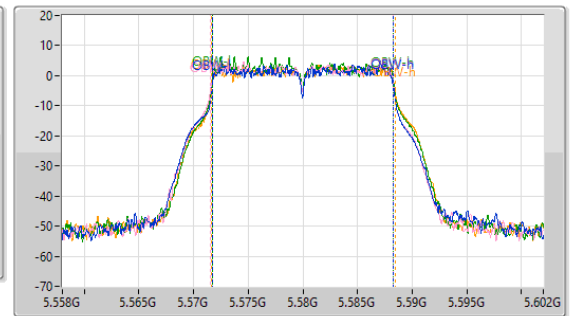
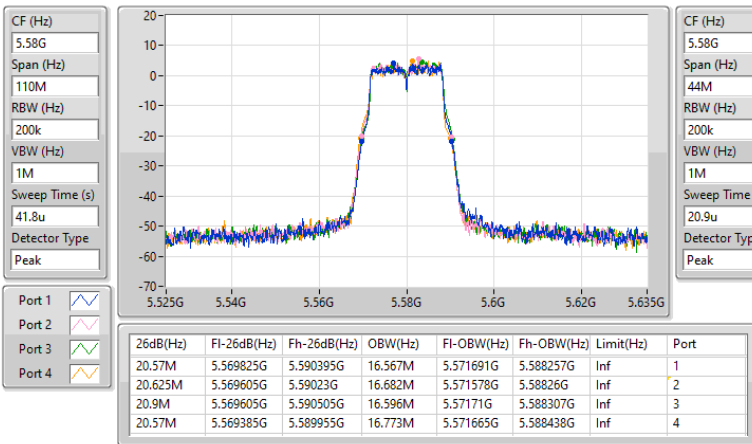


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

26/12/2023

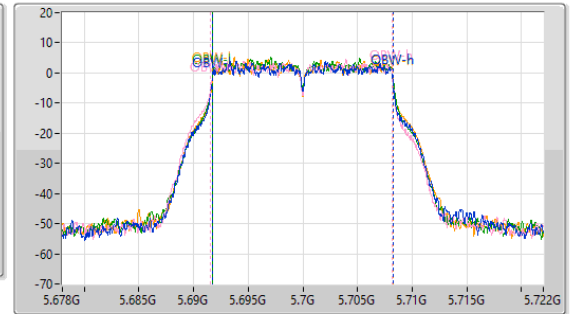
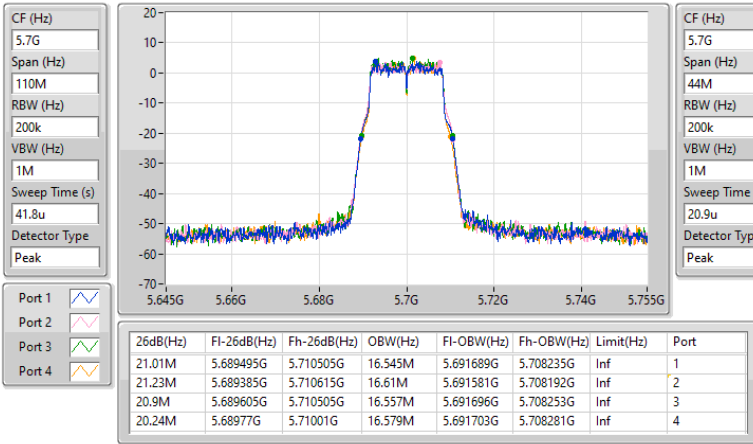


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

26/12/2023

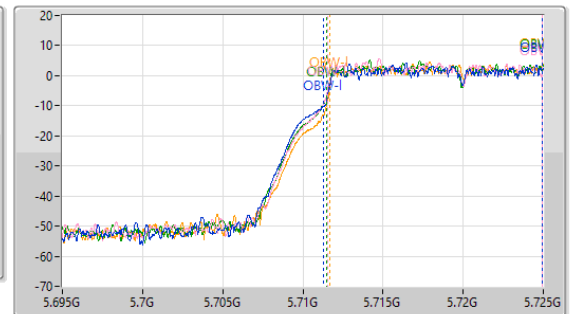
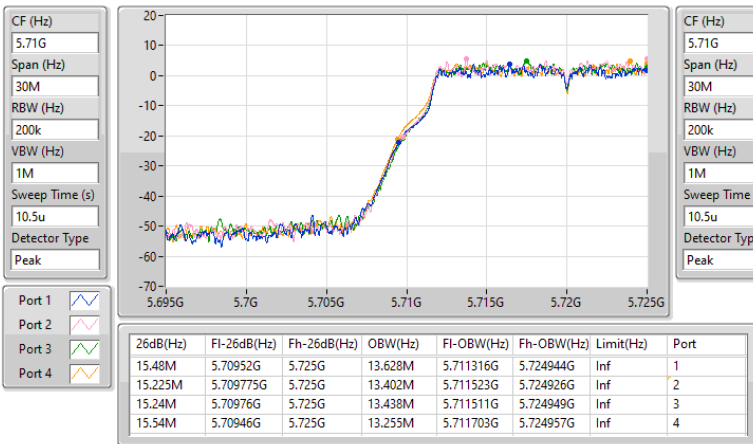


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

26/12/2023

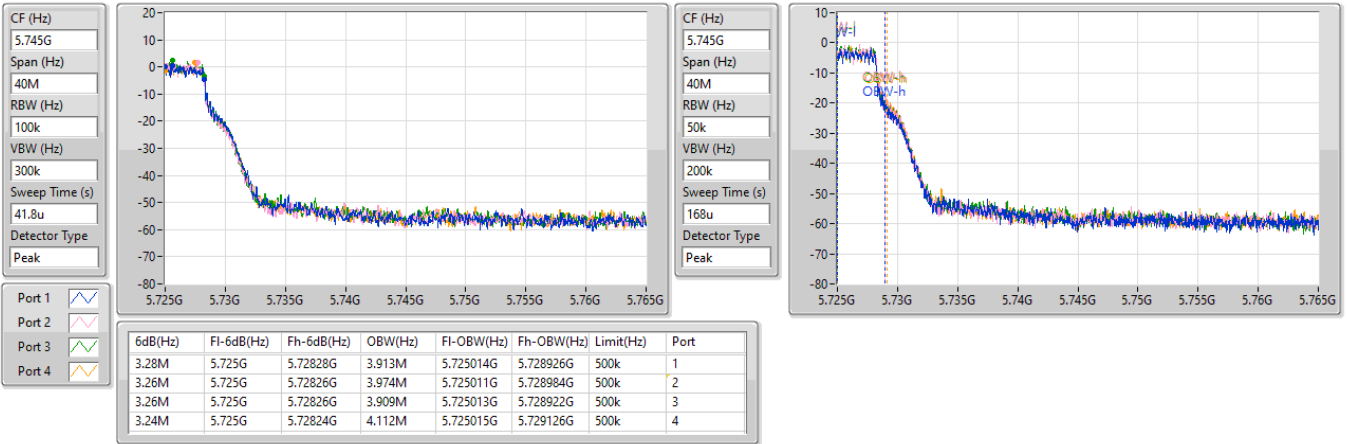


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/12/2023

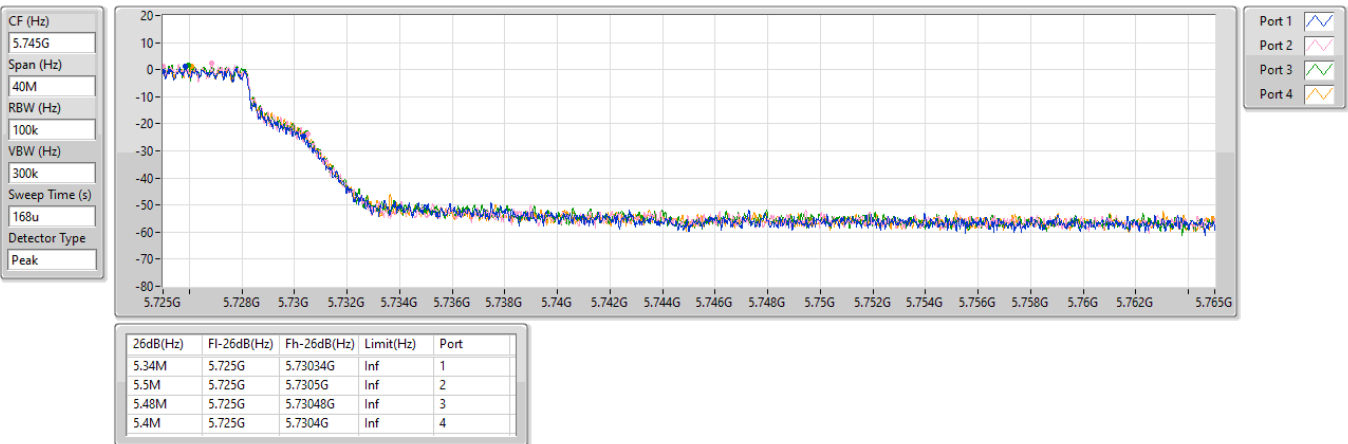


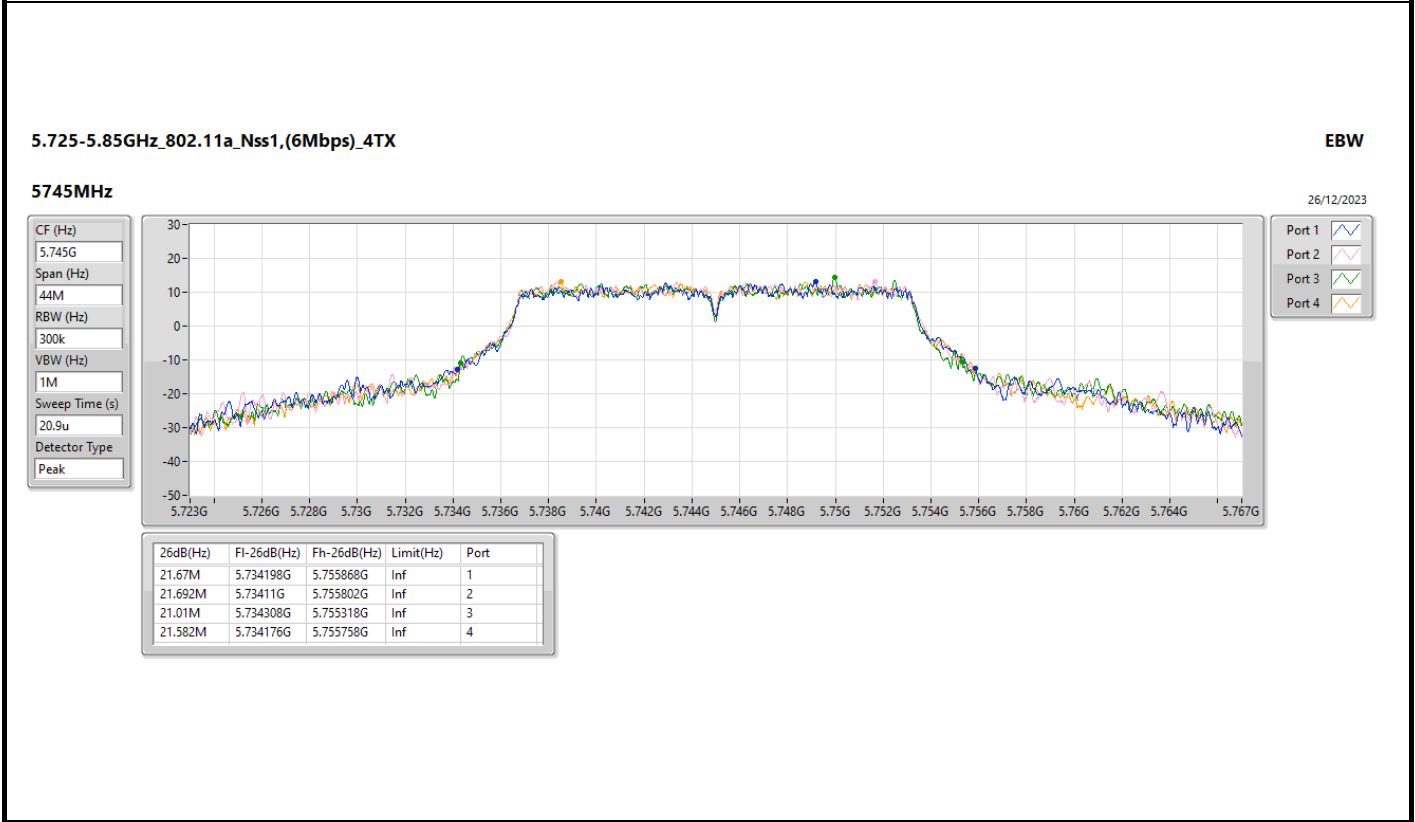
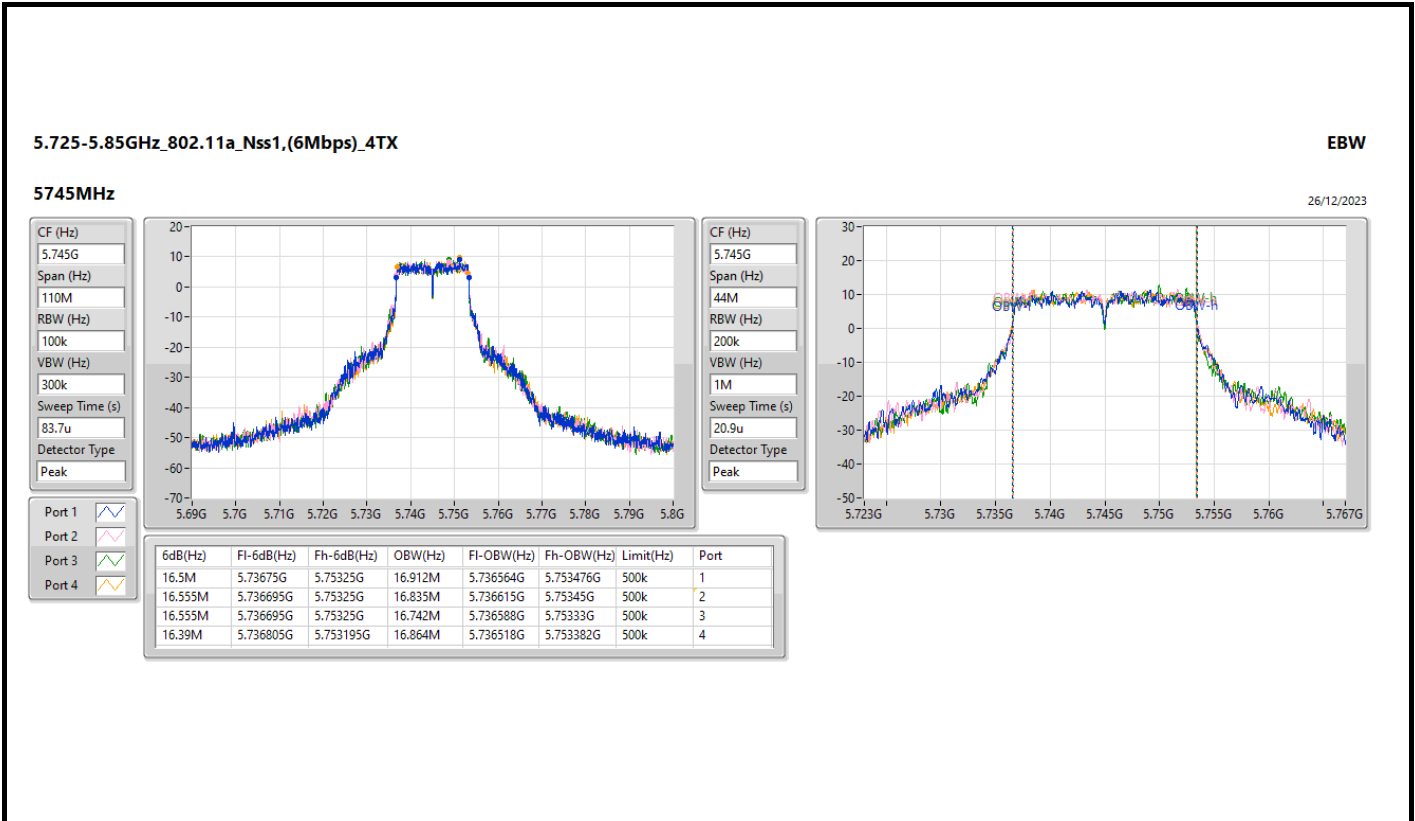
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

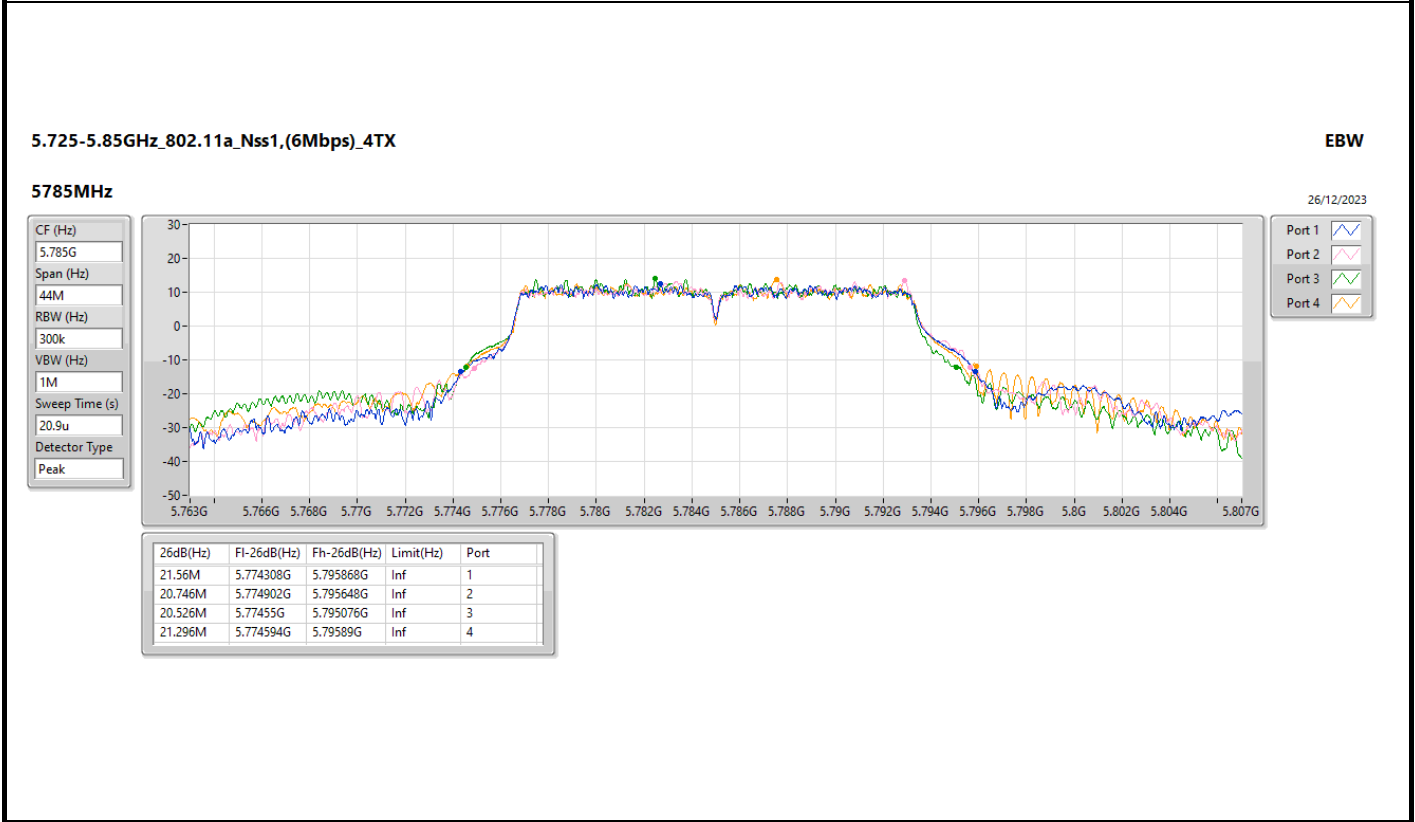
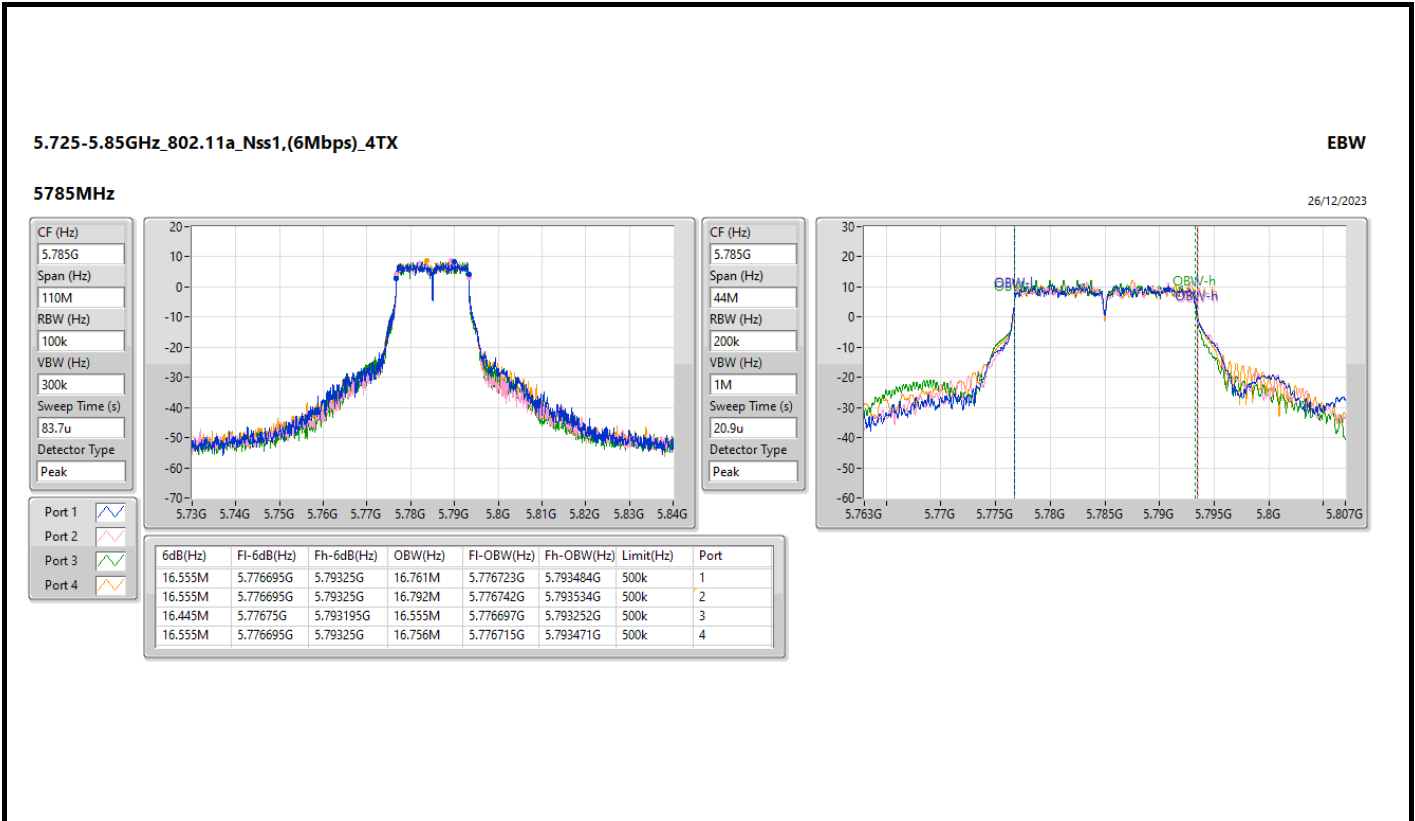
EBW

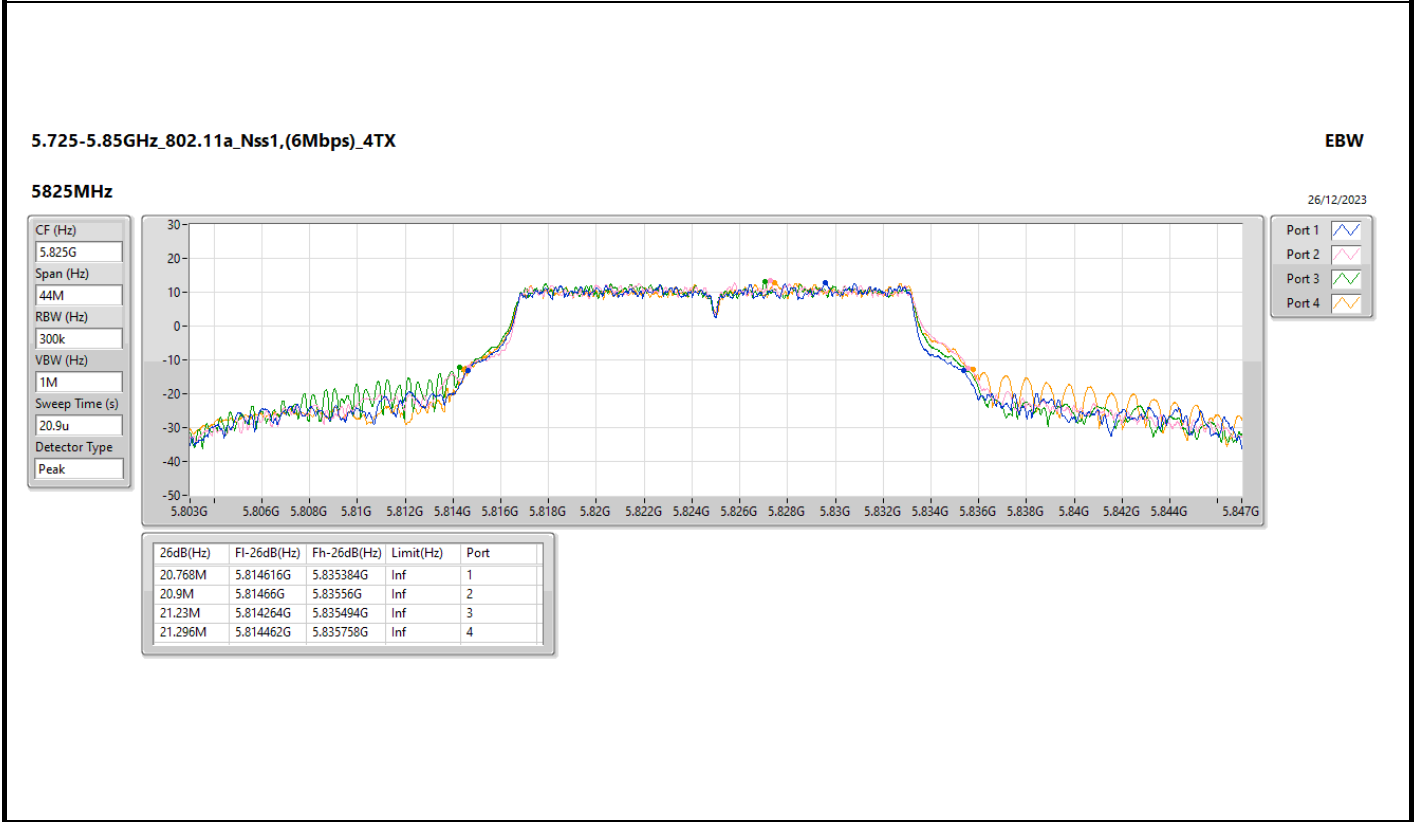
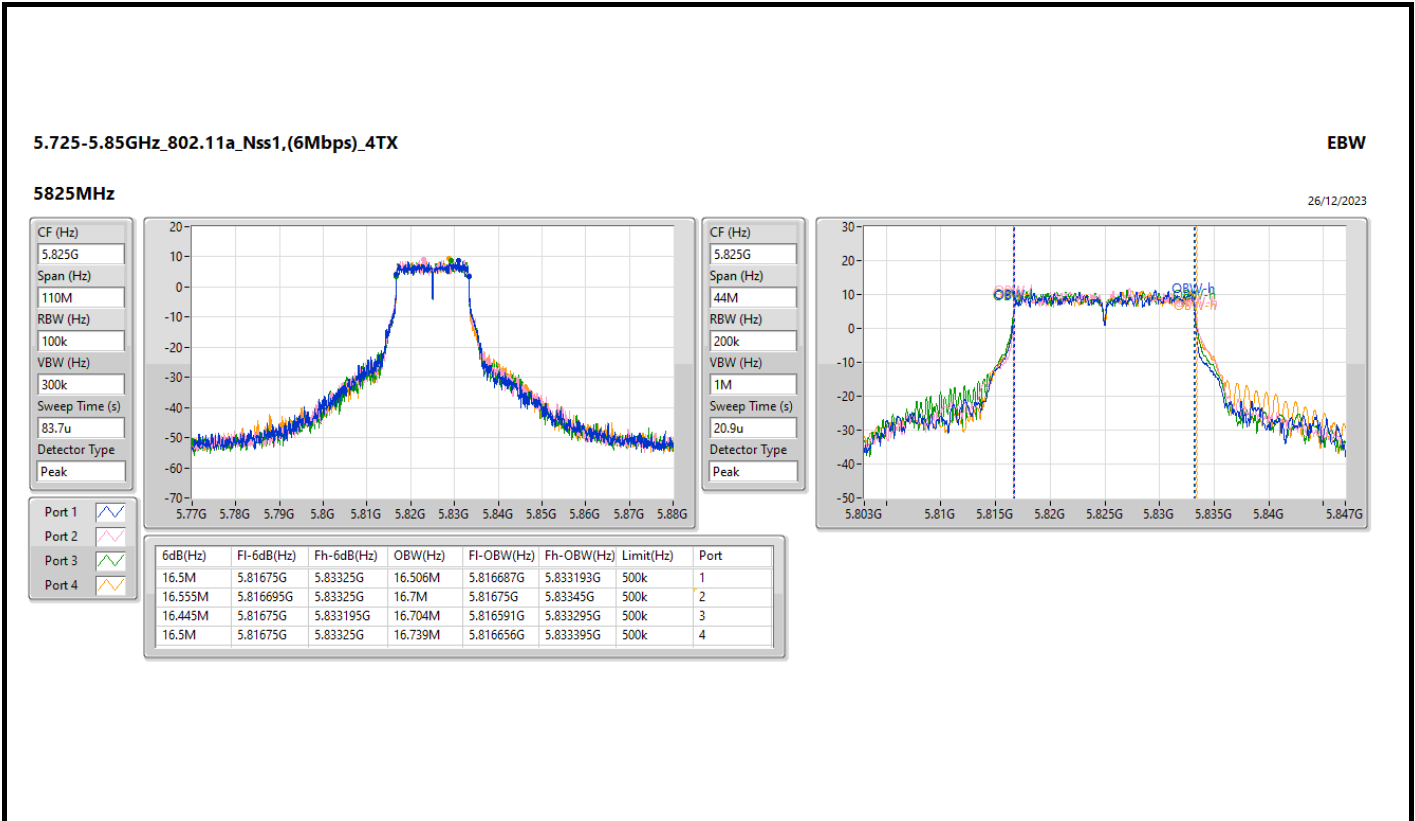
5720MHz Straddle 5.725-5.85GHz

26/12/2023









5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

26/12/2023

CF (Hz)
5.18G

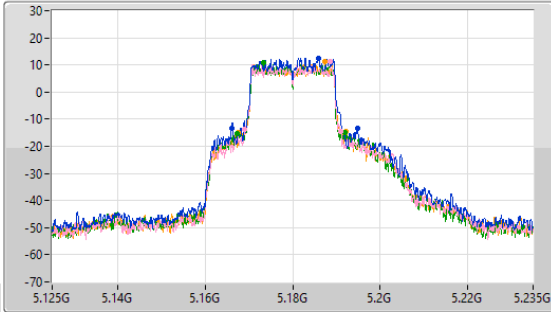
Span (Hz)
110M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
27.9u

Detector Type
Peak



CF (Hz)
5.18G

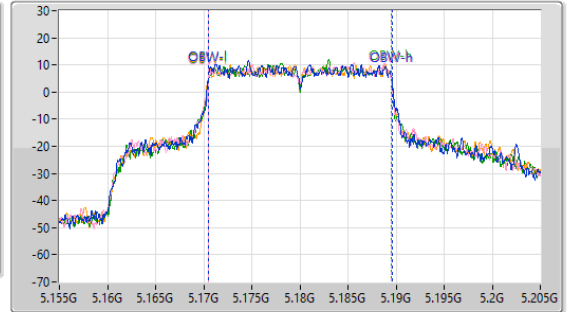
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.82M	5.16603G	5.19485G	19.083M	5.170478G	5.189561G	Inf	1
22.165M	5.168945G	5.19111G	19.049M	5.170481G	5.18953G	Inf	2
24.585M	5.167405G	5.19199G	19.043M	5.170486G	5.18953G	Inf	3
24.585M	5.167625G	5.19221G	19.126M	5.170447G	5.189573G	Inf	4

5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

26/12/2023

CF (Hz)
5.2G

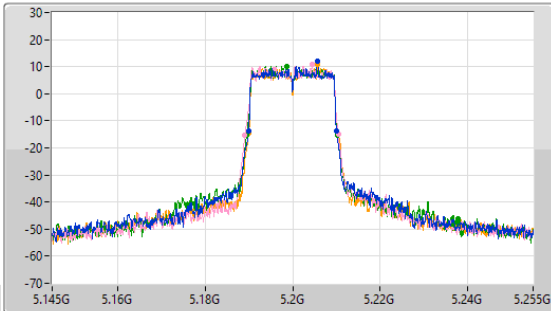
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.2G

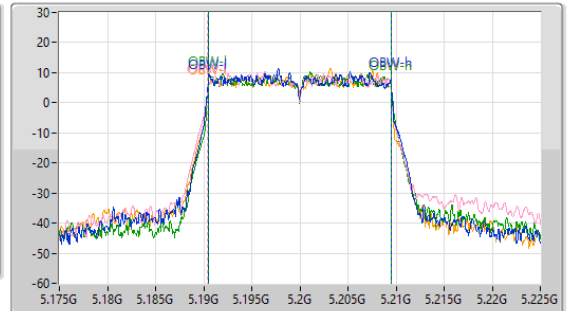
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

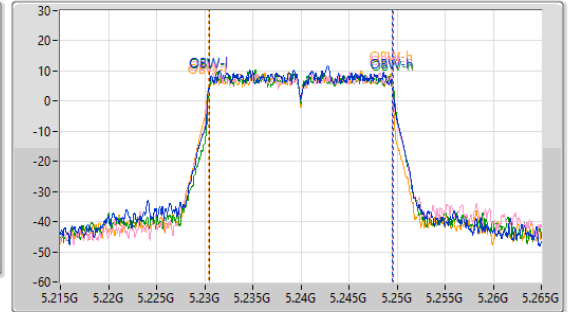
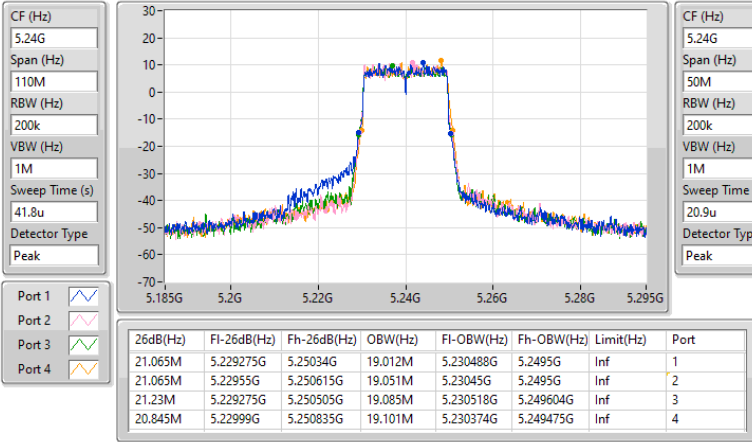
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.13M	5.189935G	5.210065G	19.03M	5.190457G	5.209488G	Inf	1
21.34M	5.18911G	5.21045G	19.043M	5.190428G	5.209471G	Inf	2
20.735M	5.189495G	5.21023G	19.018M	5.190491G	5.209509G	Inf	3
20.625M	5.189935G	5.21056G	19.012M	5.19045G	5.209463G	Inf	4

5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

26/12/2023

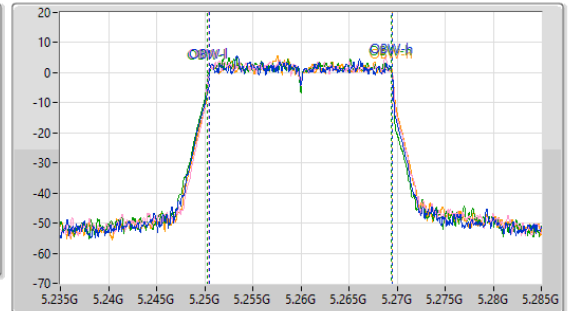
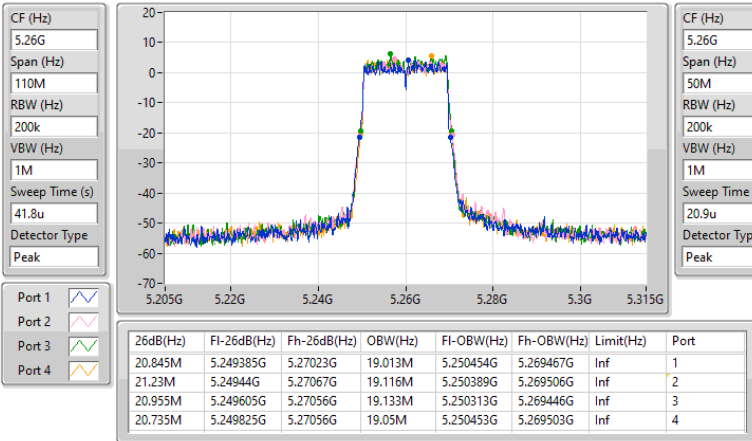


5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

26/12/2023

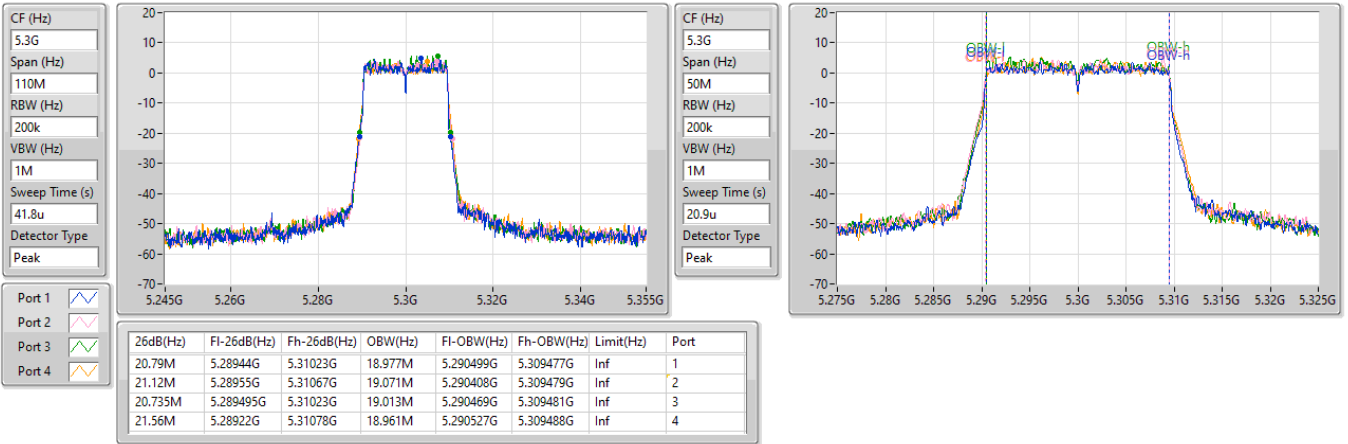


5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

26/12/2023

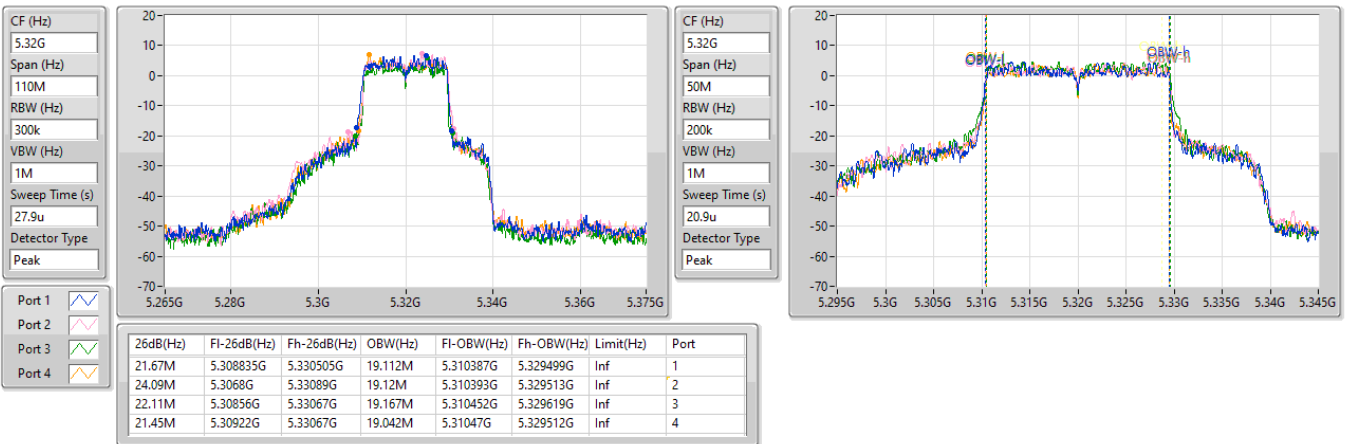


5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

26/12/2023



5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5500MHz

26/12/2023

CF (Hz)
5.5G

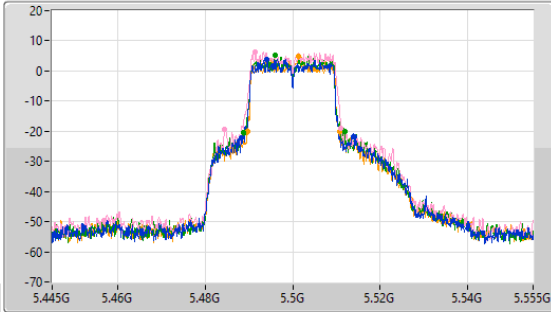
Span (Hz)
110M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
27.9u

Detector Type
Peak



CF (Hz)
5.5G

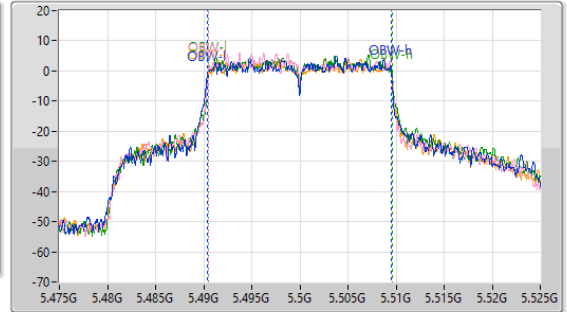
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.85M	5.48823G	5.51408G	19.175M	5.490355G	5.50953G	Inf	1
26.565M	5.48449G	5.511055G	19.031M	5.490496G	5.509527G	Inf	2
23.155M	5.488725G	5.51188G	19.119M	5.490476G	5.509595G	Inf	3
21.065M	5.48966G	5.510725G	19.058M	5.490473G	5.509531G	Inf	4

5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

26/12/2023

CF (Hz)
5.58G

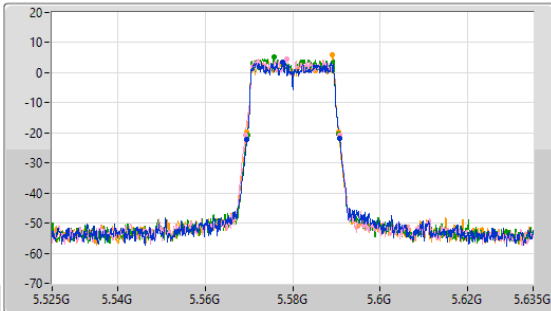
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.58G

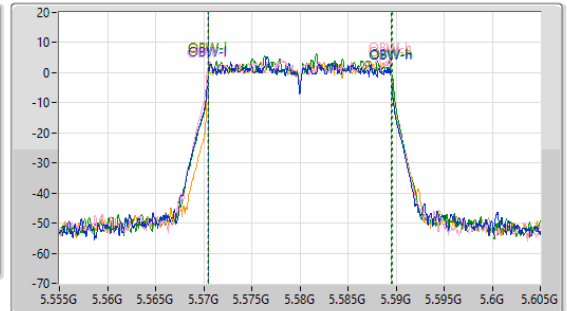
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

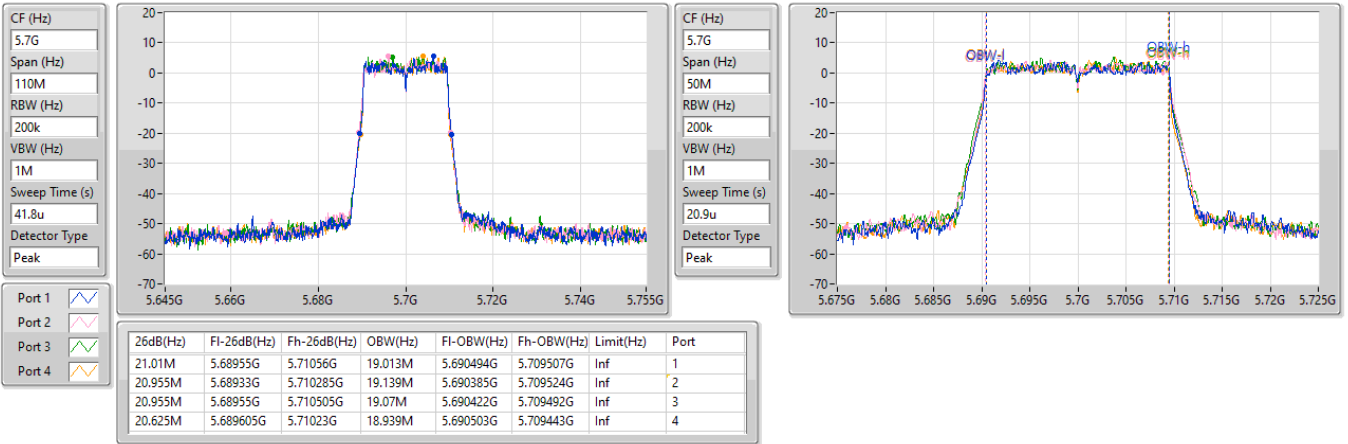
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.23M	5.56955G	5.59078G	18.994M	5.57047G	5.589464G	Inf	1
21.56M	5.569165G	5.590725G	19.13M	5.570358G	5.589487G	Inf	2
20.955M	5.56966G	5.590615G	19.076M	5.570503G	5.589579G	Inf	3
20.955M	5.56955G	5.590505G	19.009M	5.570505G	5.589513G	Inf	4

5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5700MHz

26/12/2023

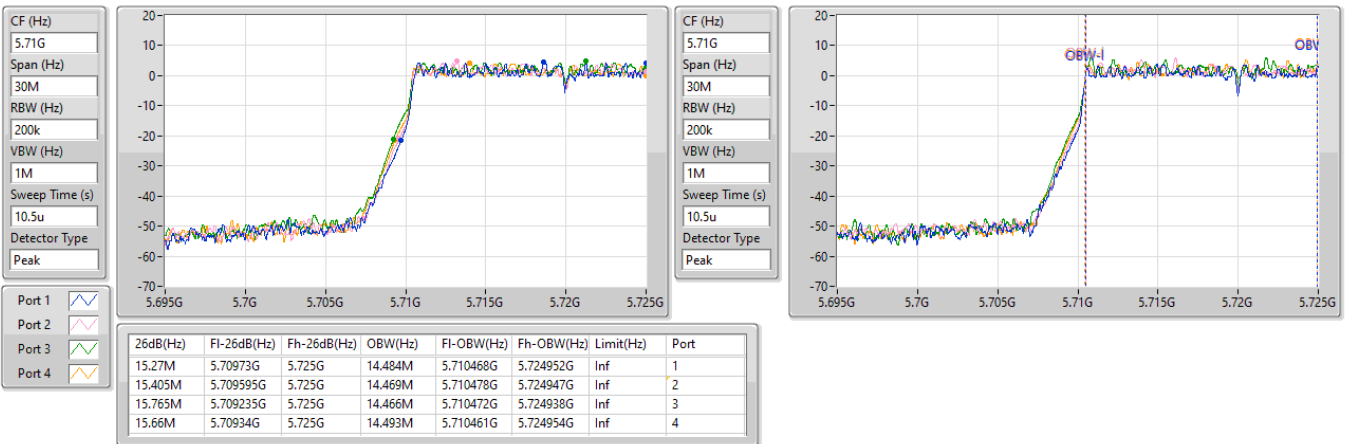


5.47-5.725GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

26/12/2023

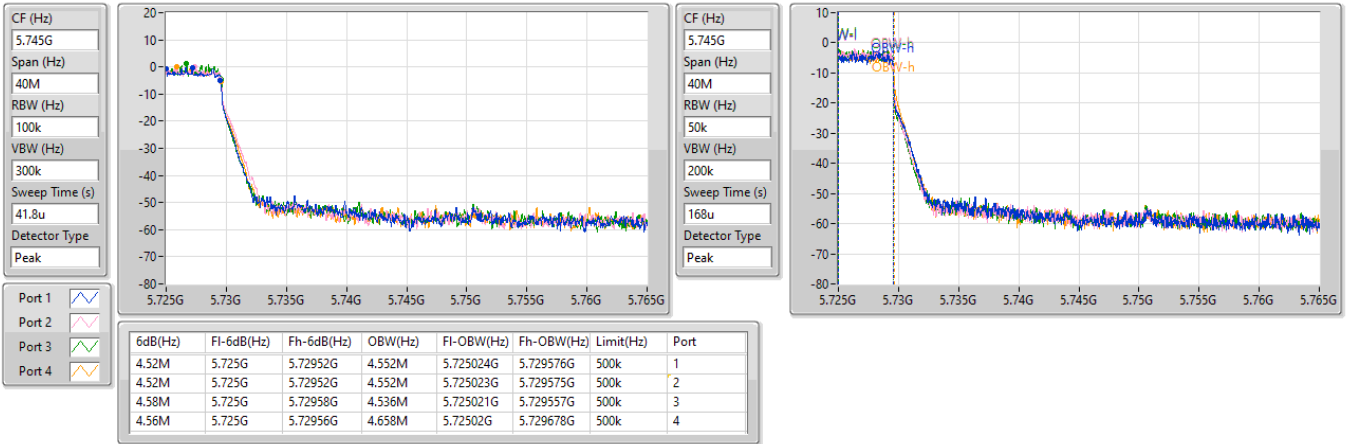


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/12/2023

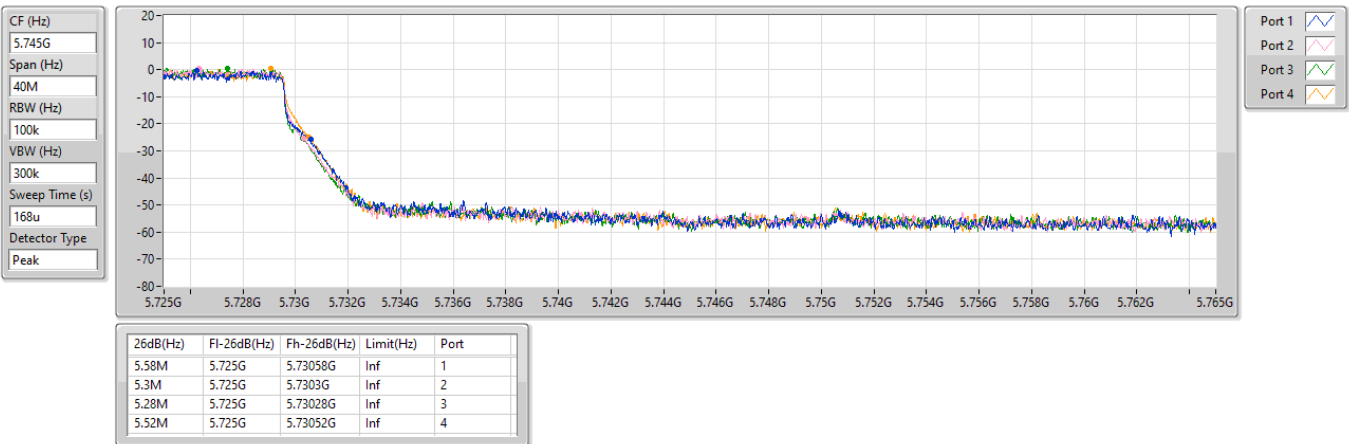


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/12/2023

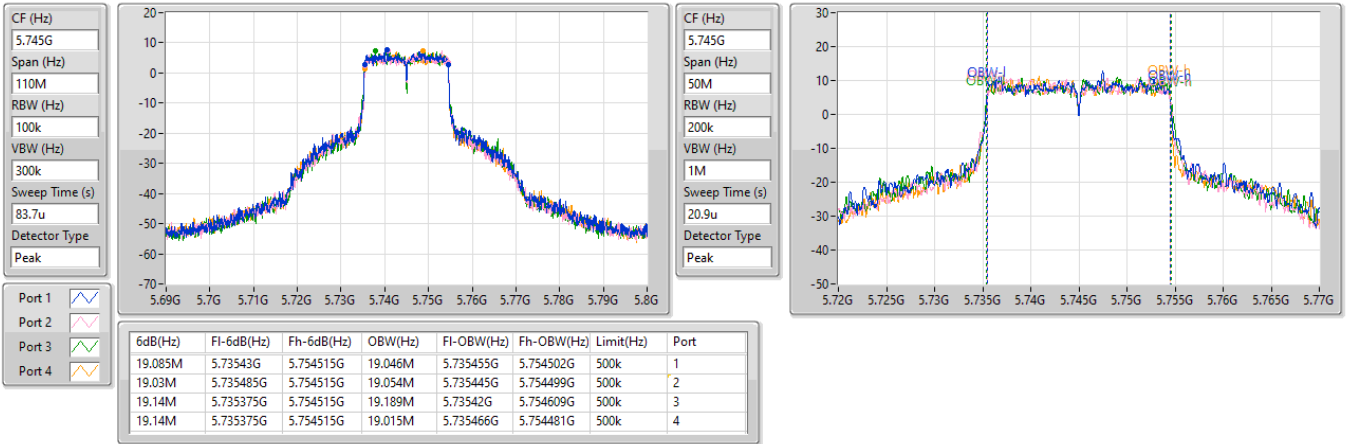


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

26/12/2023

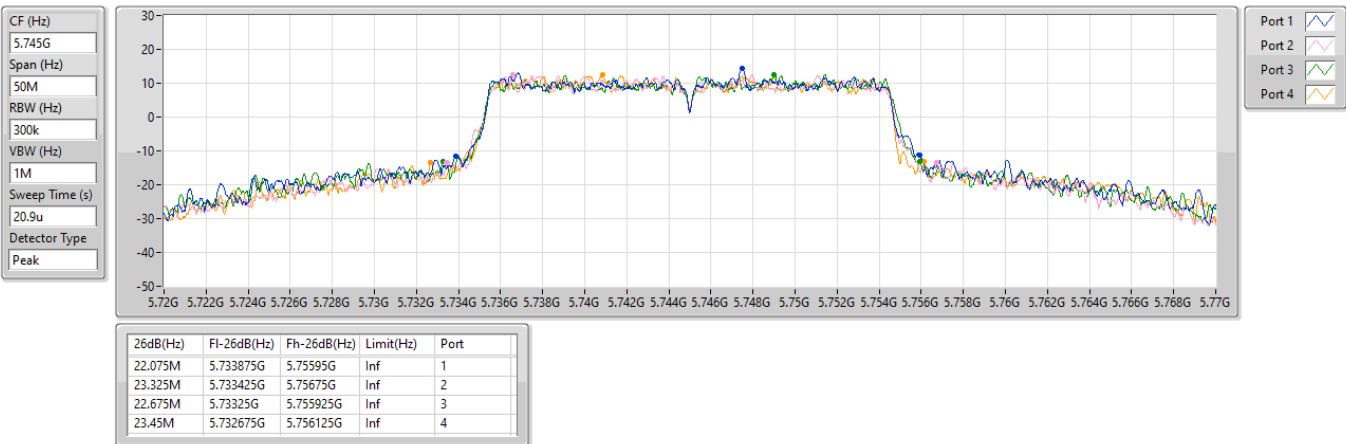


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

26/12/2023

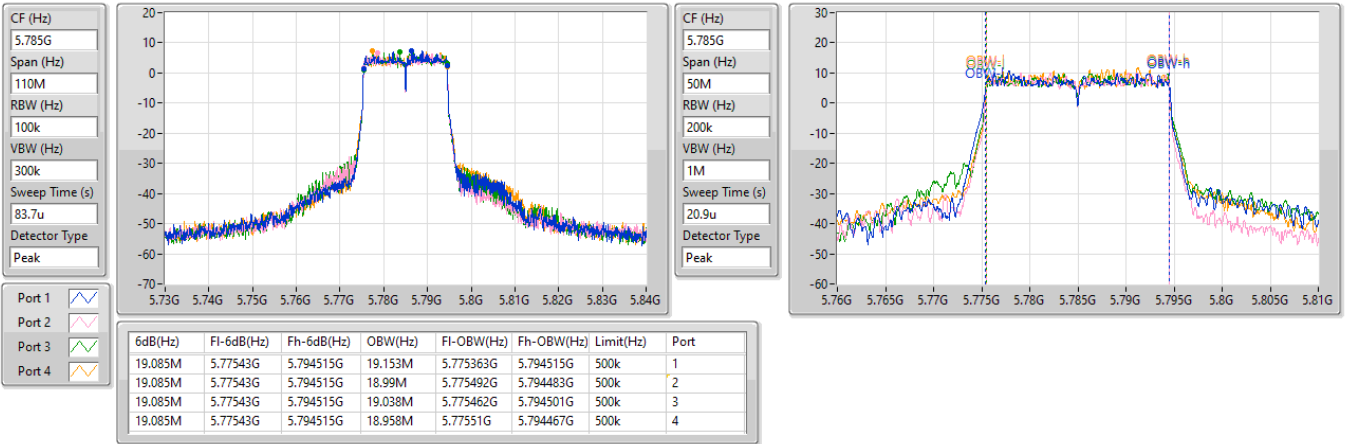


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

26/12/2023

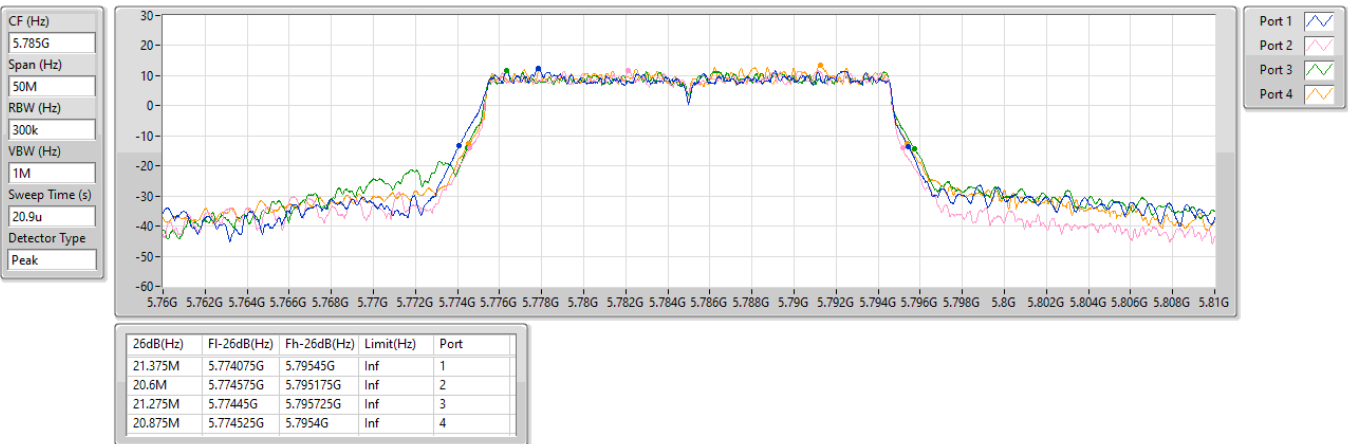


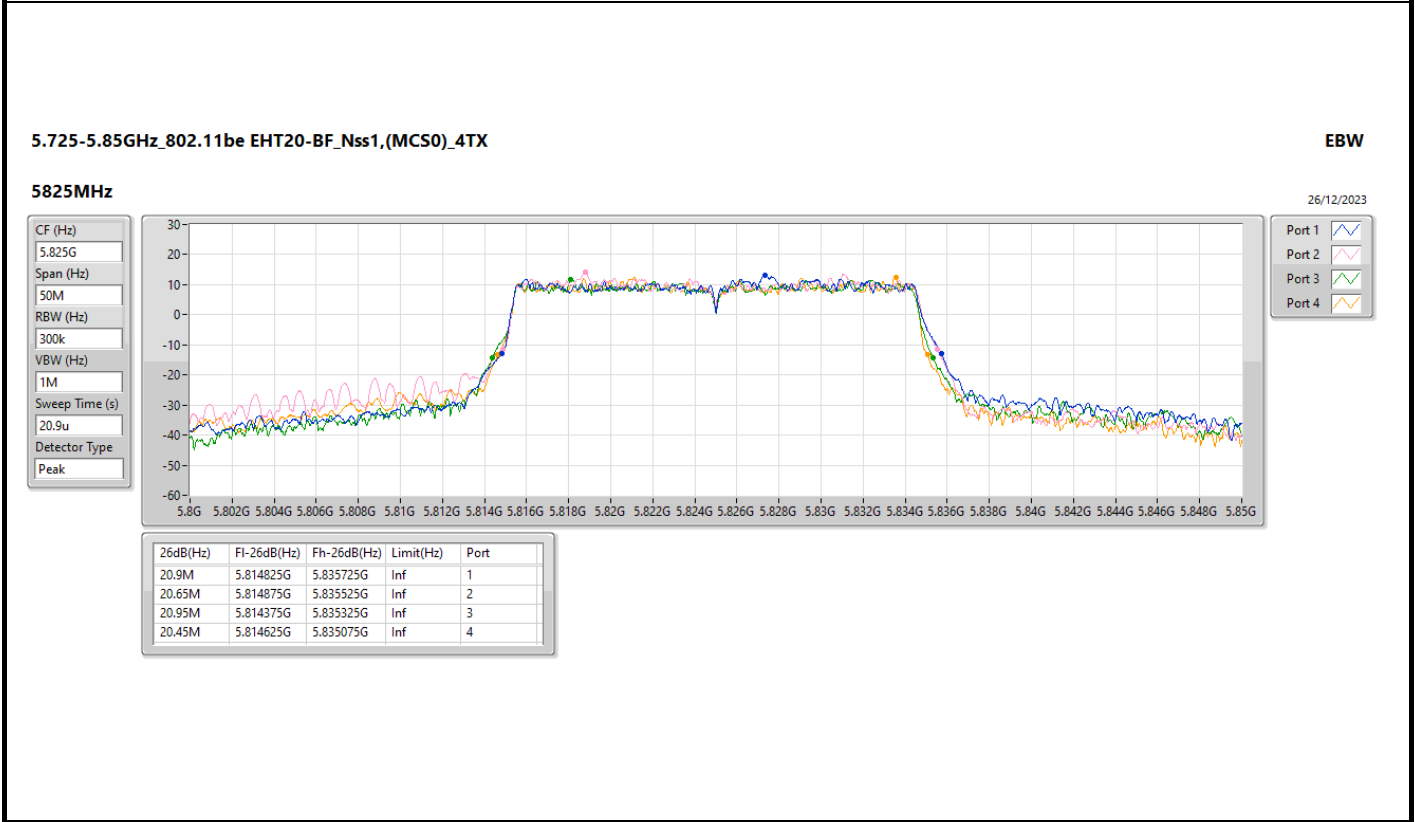
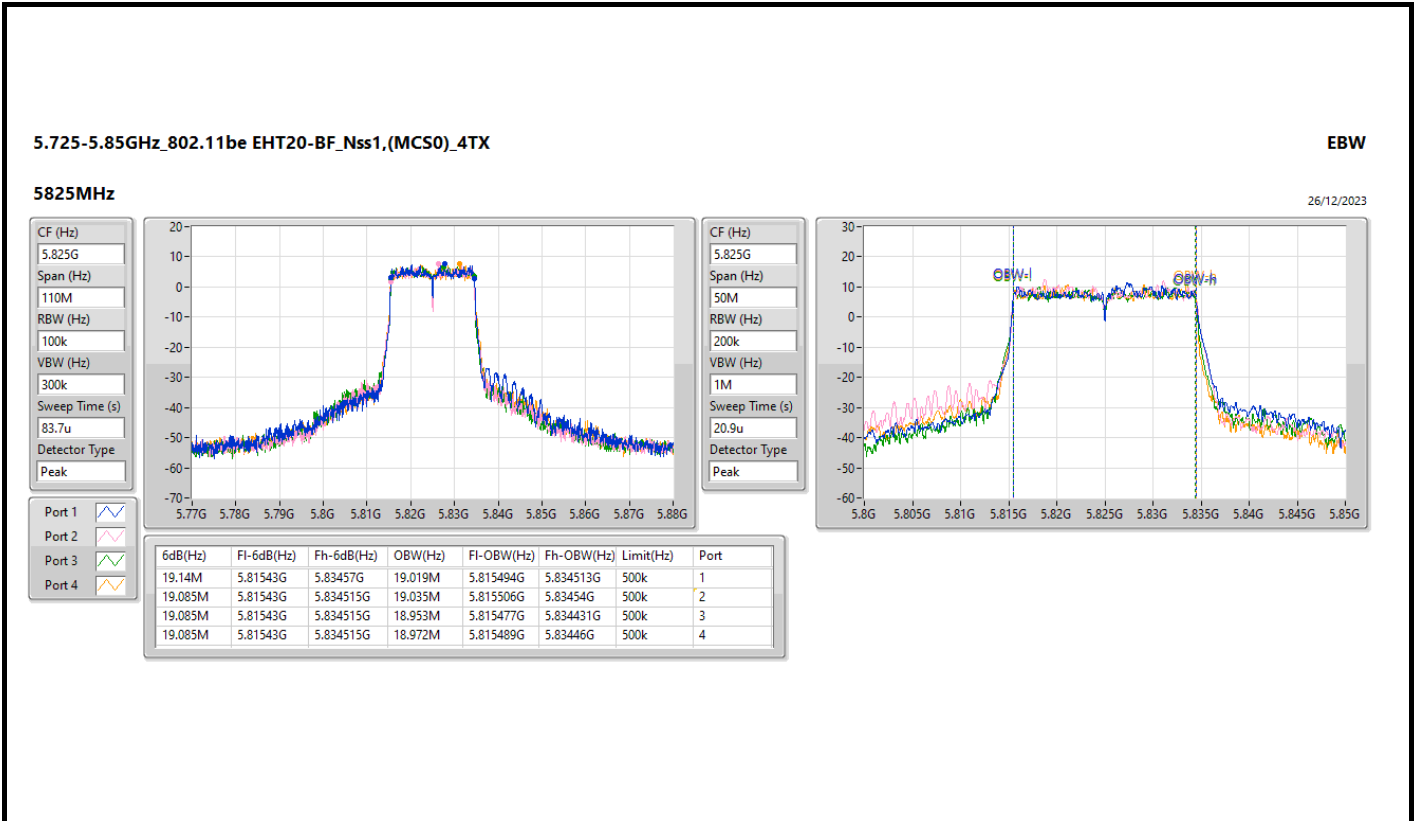
5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

26/12/2023



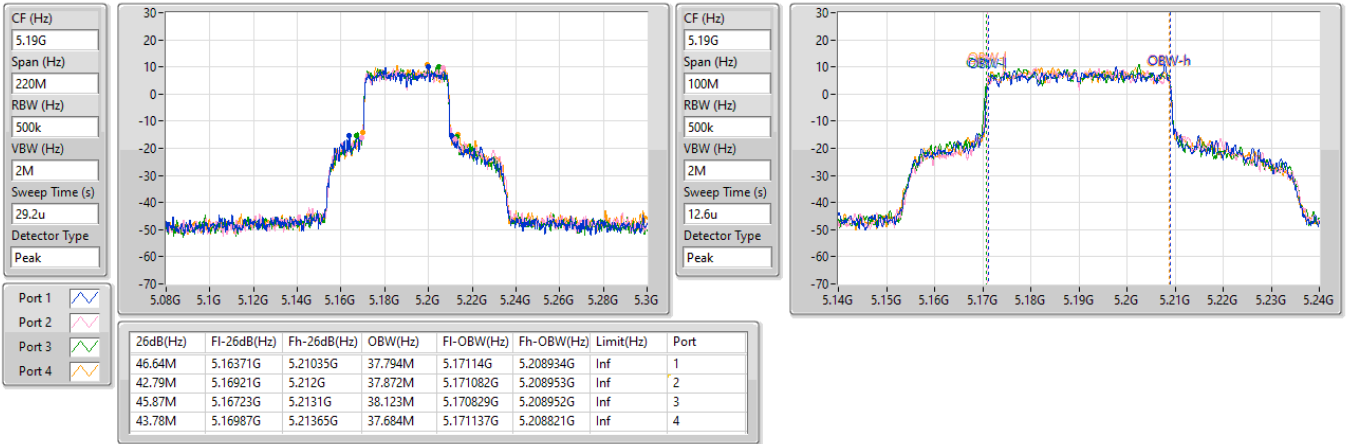


5.15-5.25GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

26/12/2023

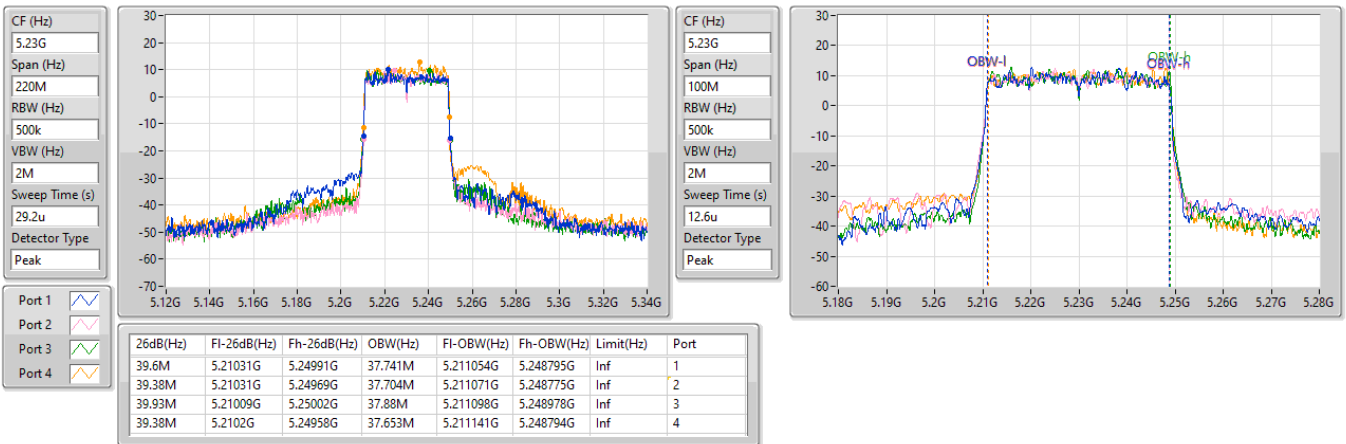


5.15-5.25GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

26/12/2023



5.25-5.35GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

26/12/2023

CF (Hz)
5.27G

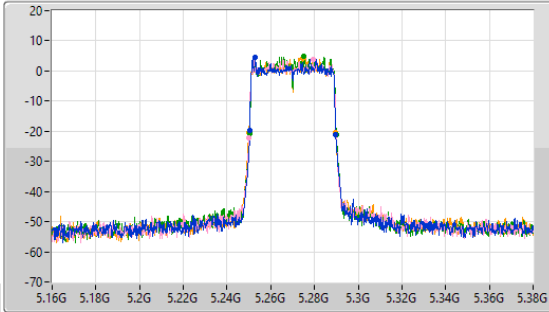
Span (Hz)
220M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
48.7u

Detector Type
Peak



CF (Hz)
5.27G

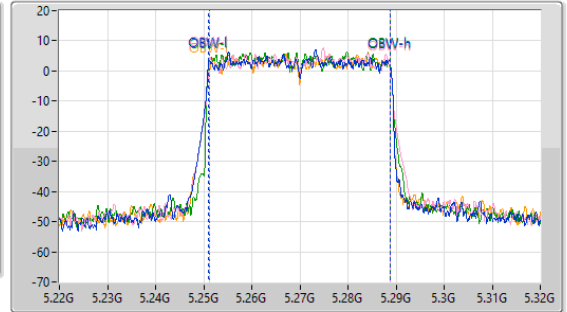
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.27M	5.25042G	5.28969G	37.855M	5.251001G	5.288857G	Inf	1
39.71M	5.25009G	5.28988G	37.609M	5.251196G	5.288804G	Inf	2
39.82M	5.2502G	5.29002G	37.692M	5.251124G	5.288816G	Inf	3
39.71M	5.24998G	5.28969G	37.698M	5.251138G	5.288836G	Inf	4

5.25-5.35GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

26/12/2023

CF (Hz)
5.31G

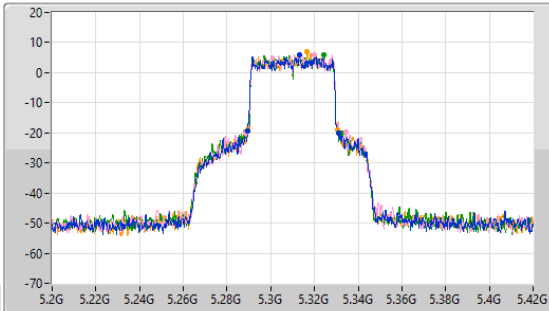
Span (Hz)
220M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
29.2u

Detector Type
Peak



CF (Hz)
5.31G

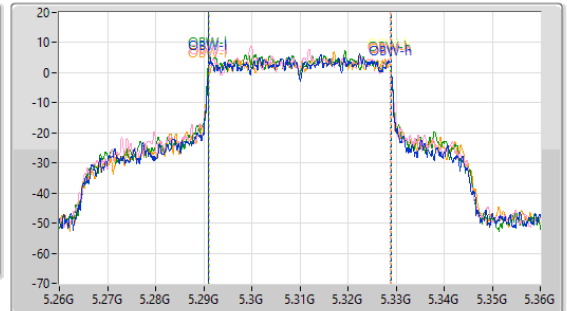
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

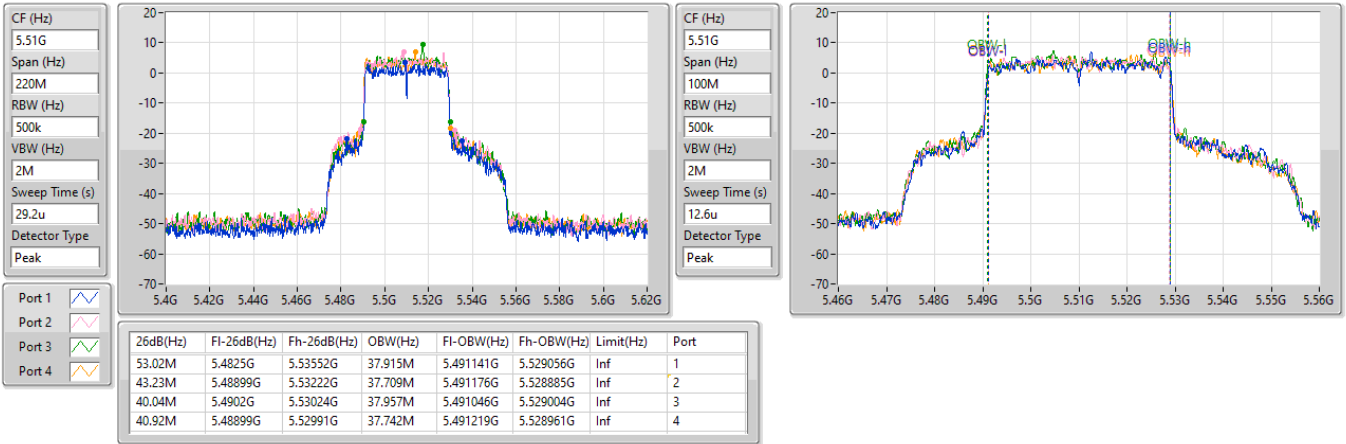
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.58M	5.28932G	5.3309G	37.864M	5.291062G	5.328927G	Inf	1
45.65M	5.28866G	5.33431G	37.663M	5.291151G	5.328814G	Inf	2
43.89M	5.28855G	5.33244G	37.925M	5.290967G	5.328893G	Inf	3
41.14M	5.28943G	5.33057G	37.843M	5.291089G	5.328932G	Inf	4

5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

26/12/2023

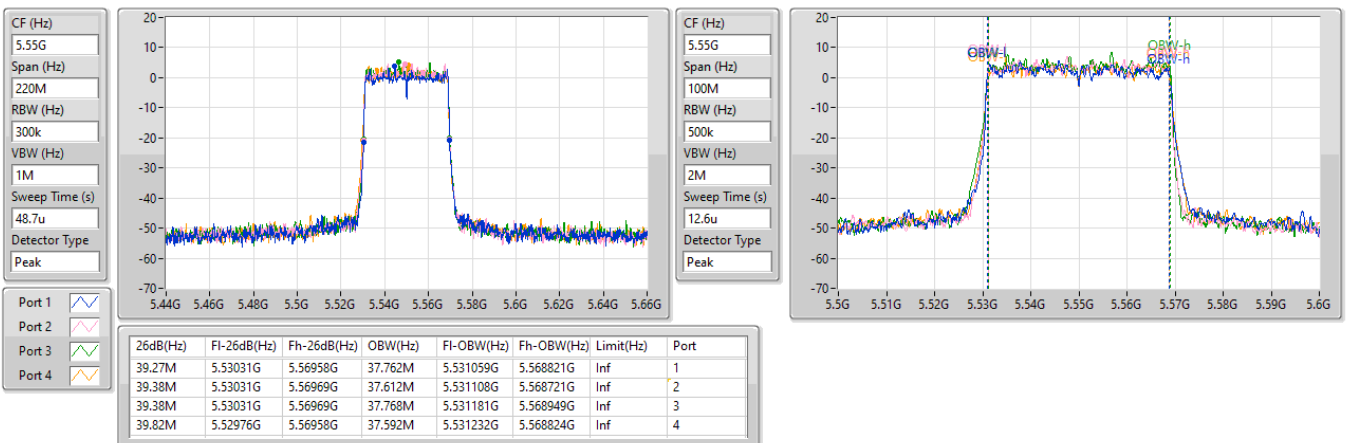


5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

26/12/2023



5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5670MHz

26/12/2023

CF (Hz)
5.67G

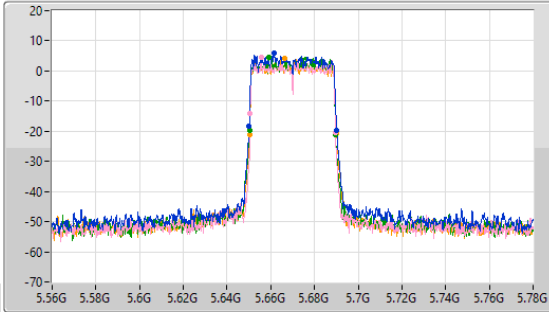
Span (Hz)
220M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
29.2u

Detector Type
Peak



CF (Hz)
5.67G

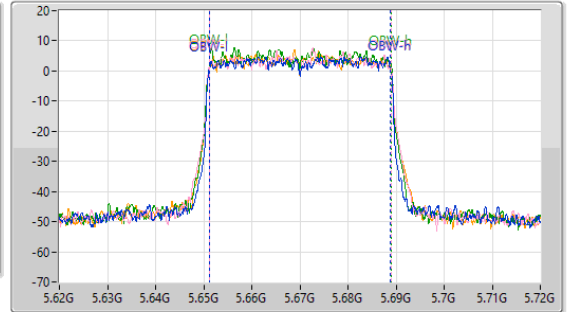
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.15M	5.65009G	5.69024G	37.7M	5.651162G	5.688862G	Inf	1
38.94M	5.65064G	5.68958G	37.783M	5.651143G	5.688926G	Inf	2
39.27M	5.6502G	5.68947G	37.721M	5.651199G	5.68892G	Inf	3
39.6M	5.65053G	5.69013G	37.709M	5.651117G	5.688826G	Inf	4

5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

26/12/2023

CF (Hz)
5.69G

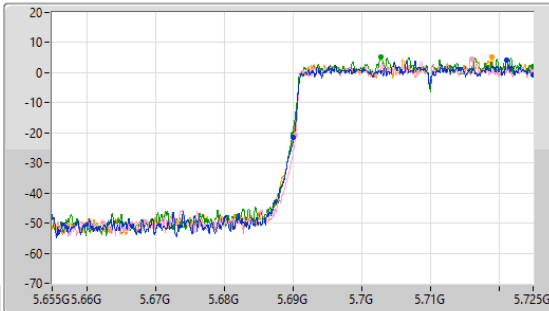
Span (Hz)
70M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



CF (Hz)
5.69G

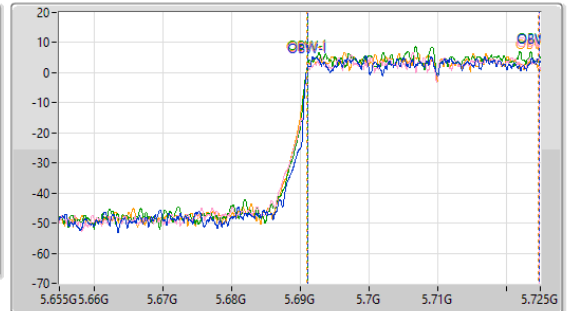
Span (Hz)
70M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

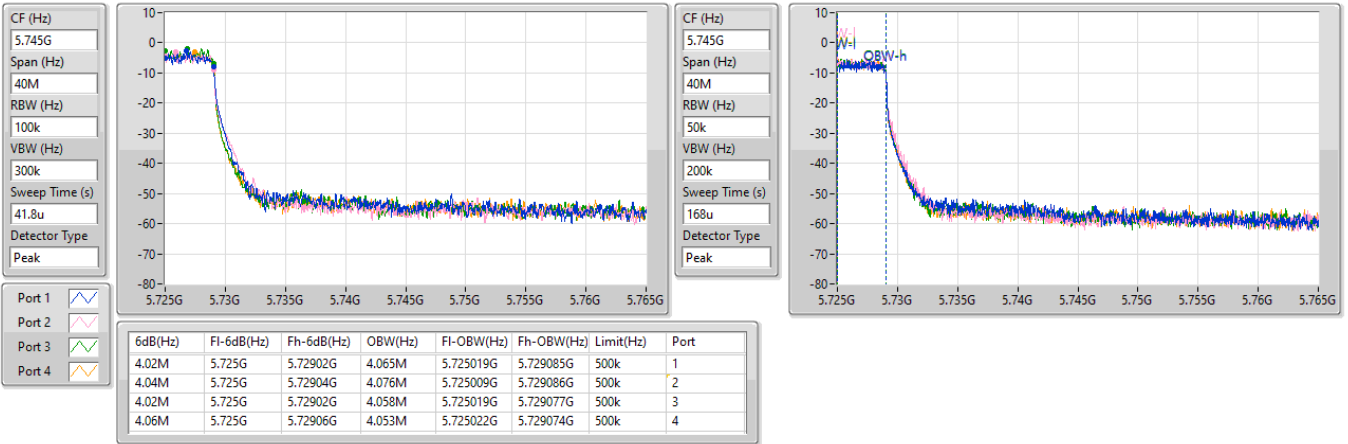
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.86M	5.69014G	5.725G	33.775M	5.691081G	5.724855G	Inf	1
34.58M	5.69042G	5.725G	33.692M	5.691083G	5.724775G	Inf	2
35M	5.69G	5.725G	33.715M	5.691125G	5.724841G	Inf	3
34.895M	5.690105G	5.725G	33.653M	5.691061G	5.724714G	Inf	4

5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

26/12/2023

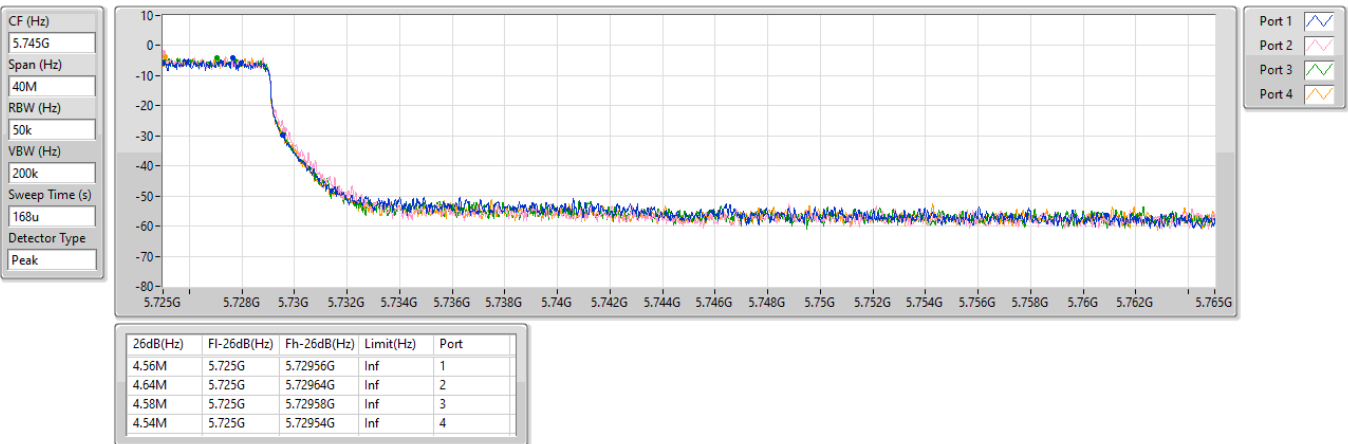


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

26/12/2023

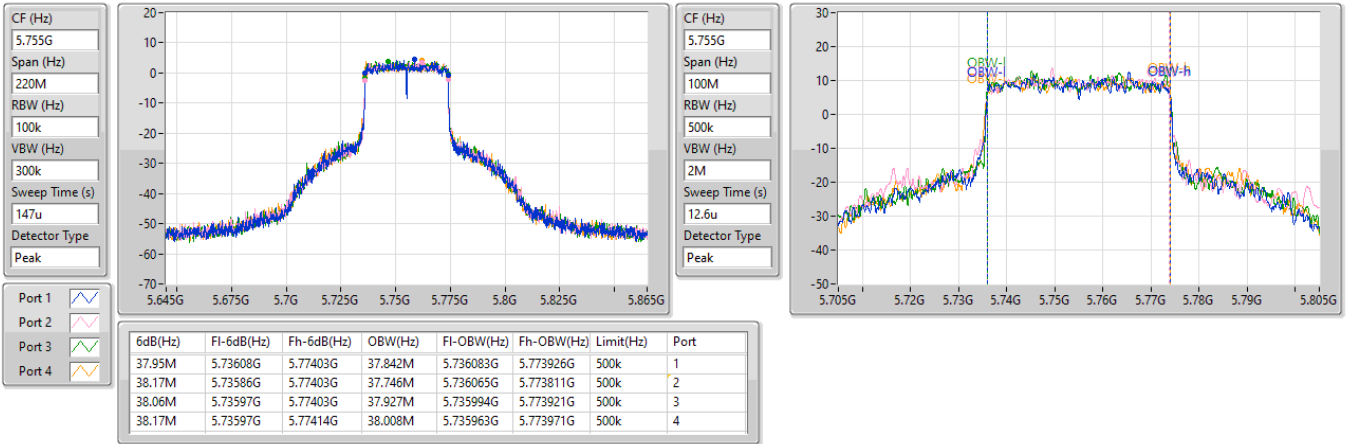


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

26/12/2023

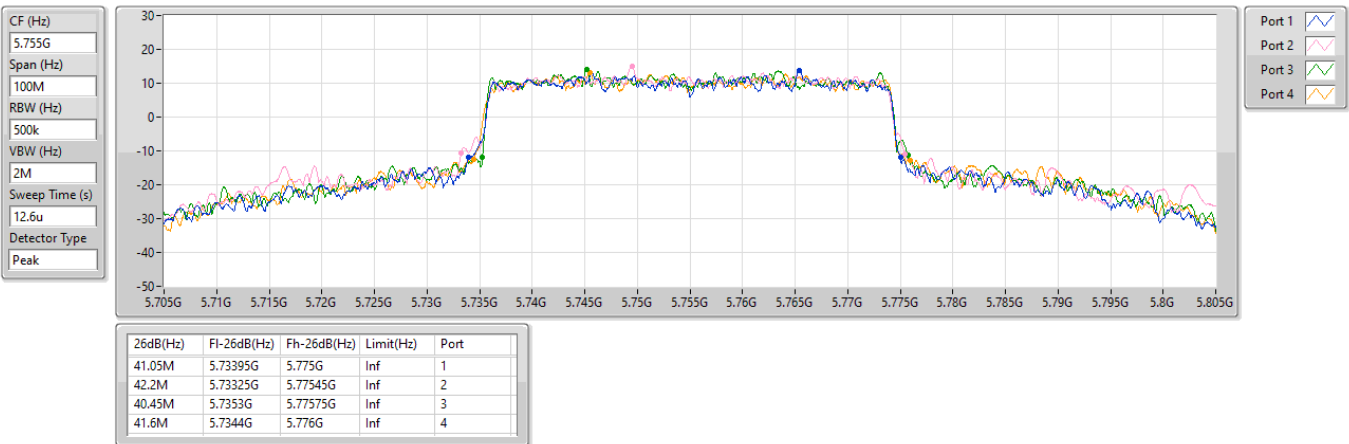


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

26/12/2023

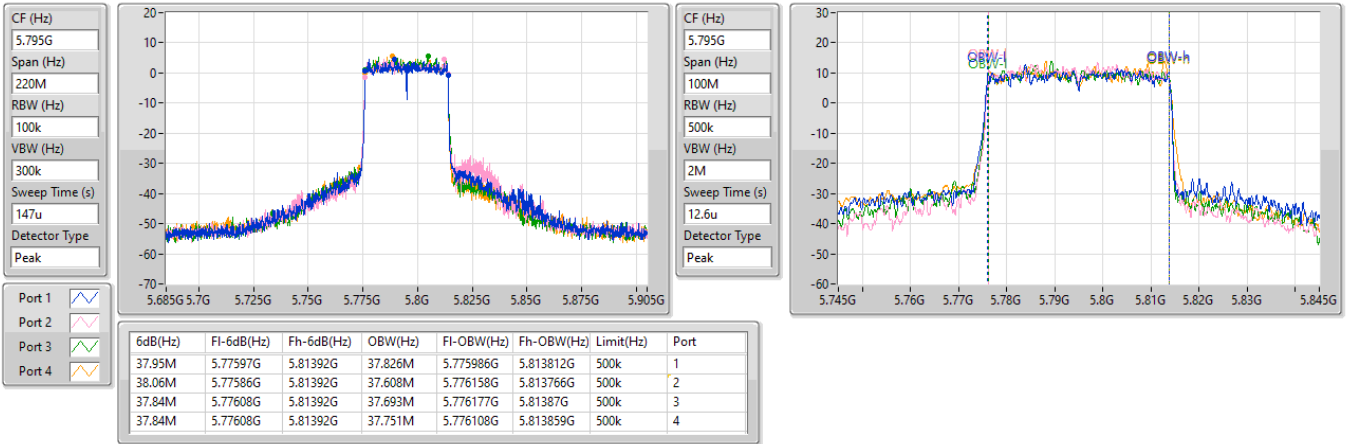


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

26/12/2023

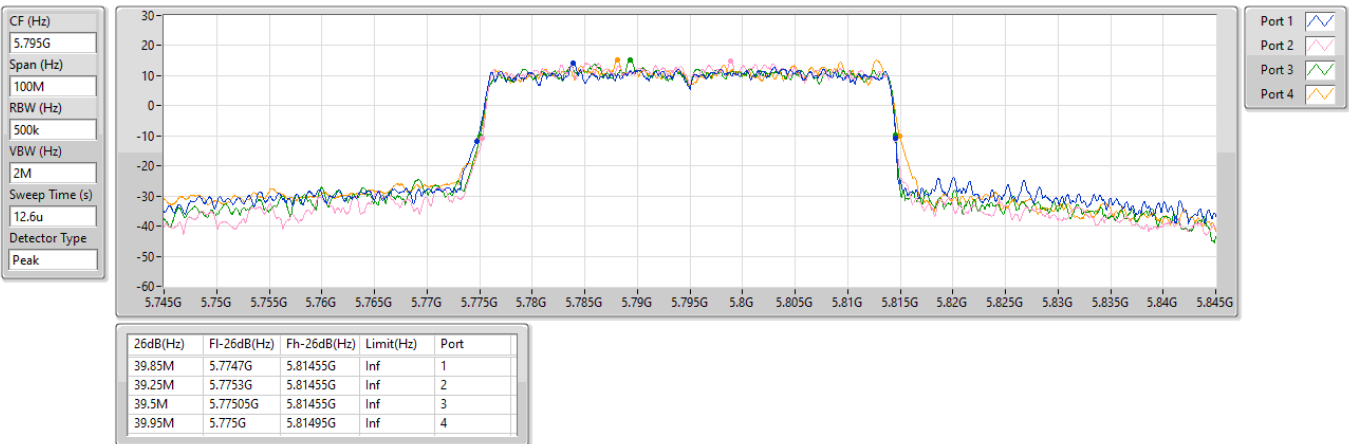


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

26/12/2023



5.15-5.25GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

26/12/2023

CF (Hz)
5.21G

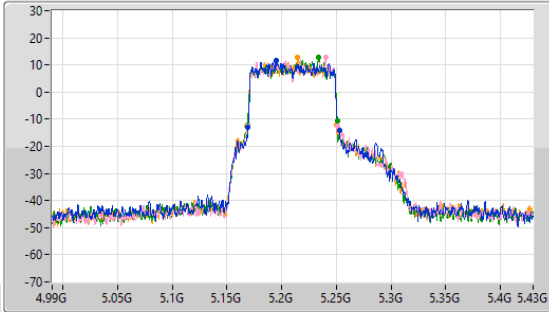
Span (Hz)
440M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
29.3u

Detector Type
Peak



CF (Hz)
5.21G

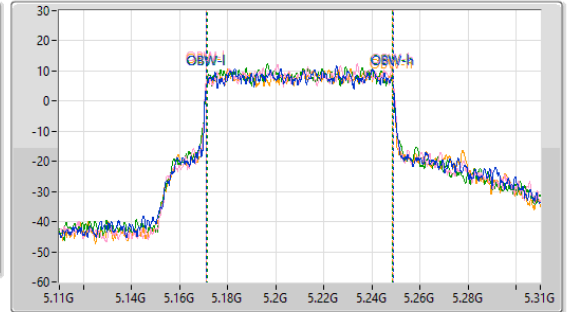
Span (Hz)
200M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
14.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.6M	5.16908G	5.25268G	77.389M	5.171317G	5.248705G	Inf	1
81.4M	5.1693G	5.2507G	77.627M	5.171144G	5.248771G	Inf	2
81.84M	5.16886G	5.2507G	77.083M	5.171344G	5.248427G	Inf	3
82.28M	5.16798G	5.25026G	77.476M	5.171202G	5.248677G	Inf	4

5.25-5.35GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

26/12/2023

CF (Hz)
5.29G

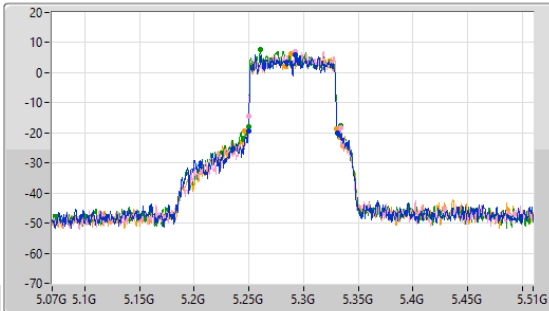
Span (Hz)
440M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
29.3u

Detector Type
Peak



CF (Hz)
5.29G

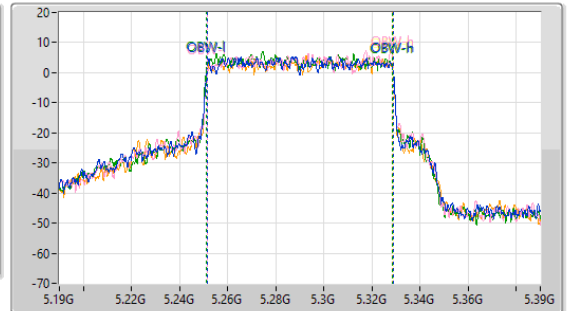
Span (Hz)
200M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
14.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

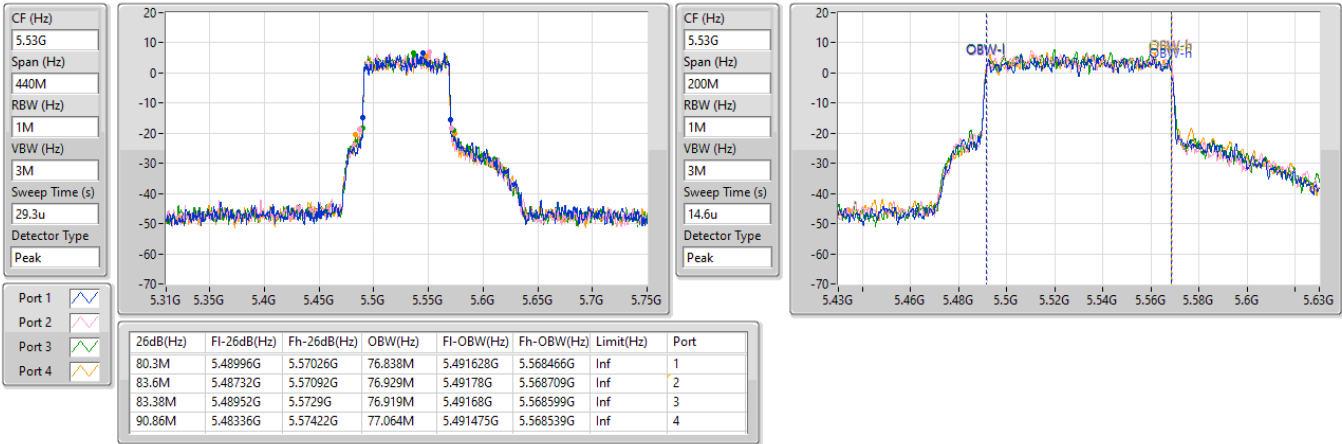
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.4M	5.24974G	5.33114G	77.241M	5.251442G	5.328684G	Inf	1
83.6M	5.24996G	5.33356G	77.173M	5.25156G	5.328732G	Inf	2
84.26M	5.24952G	5.33378G	77.219M	5.251317G	5.328536G	Inf	3
84.04M	5.24622G	5.33026G	77.25M	5.251344G	5.328594G	Inf	4

5.47-5.725GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

26/12/2023

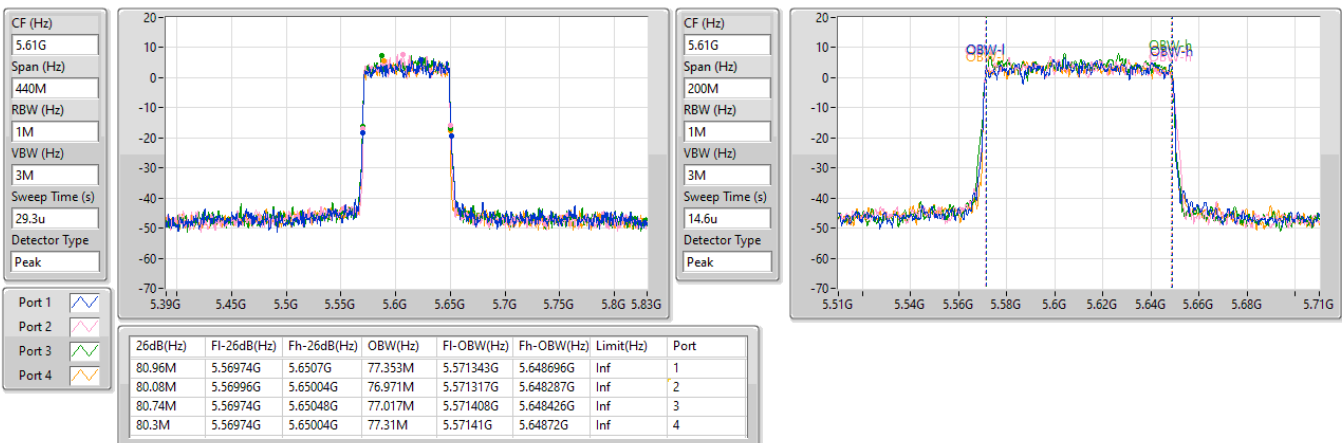


5.47-5.725GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

26/12/2023

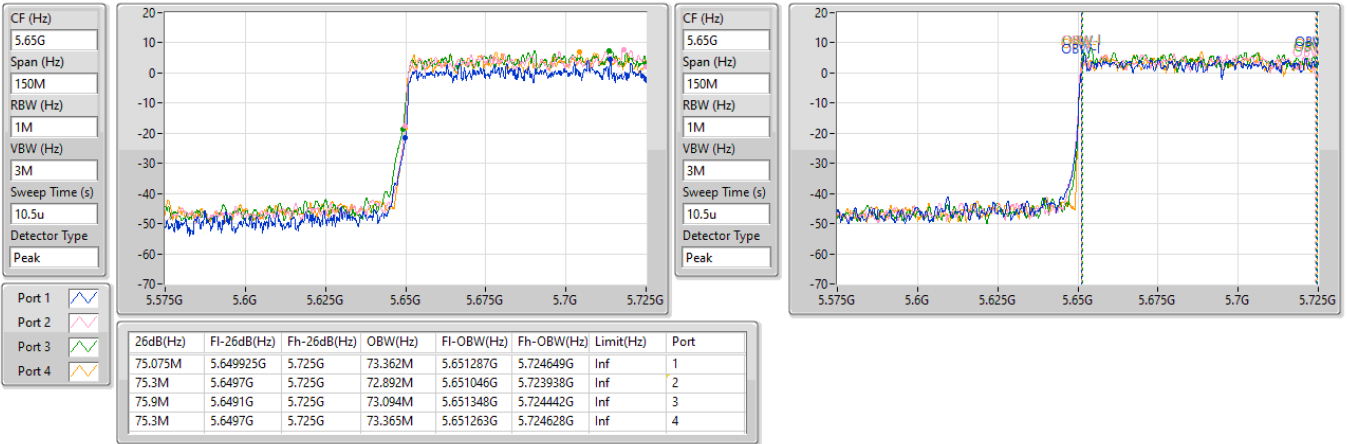


5.47-5.725GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

26/12/2023

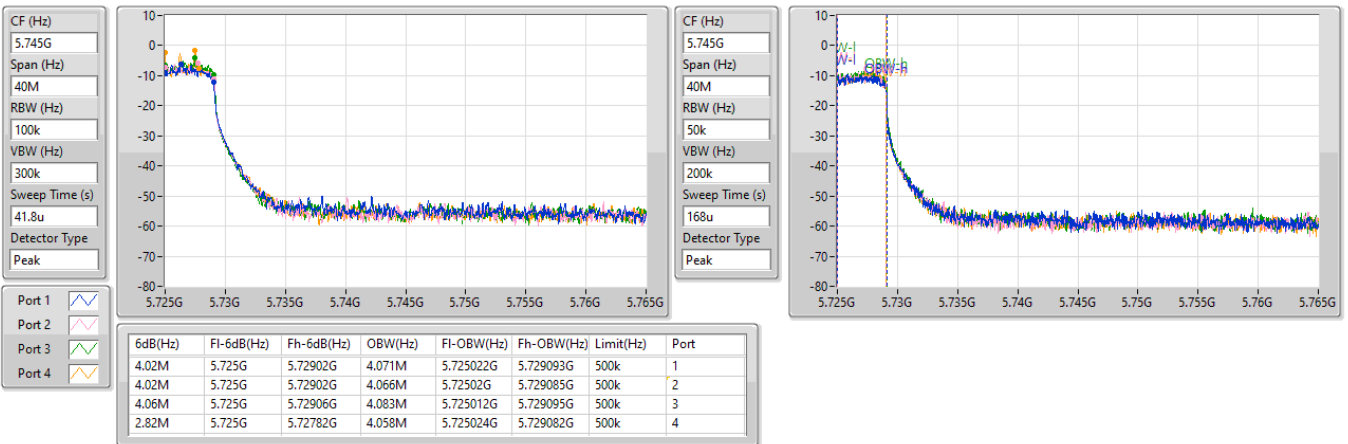


5.725-5.85GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

26/12/2023

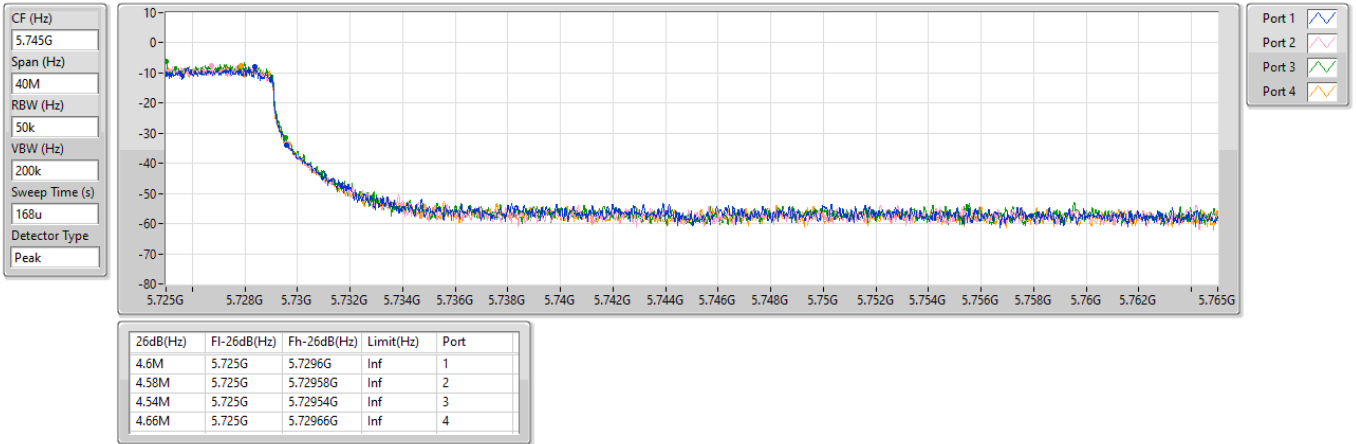


5.725-5.85GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

26/12/2023

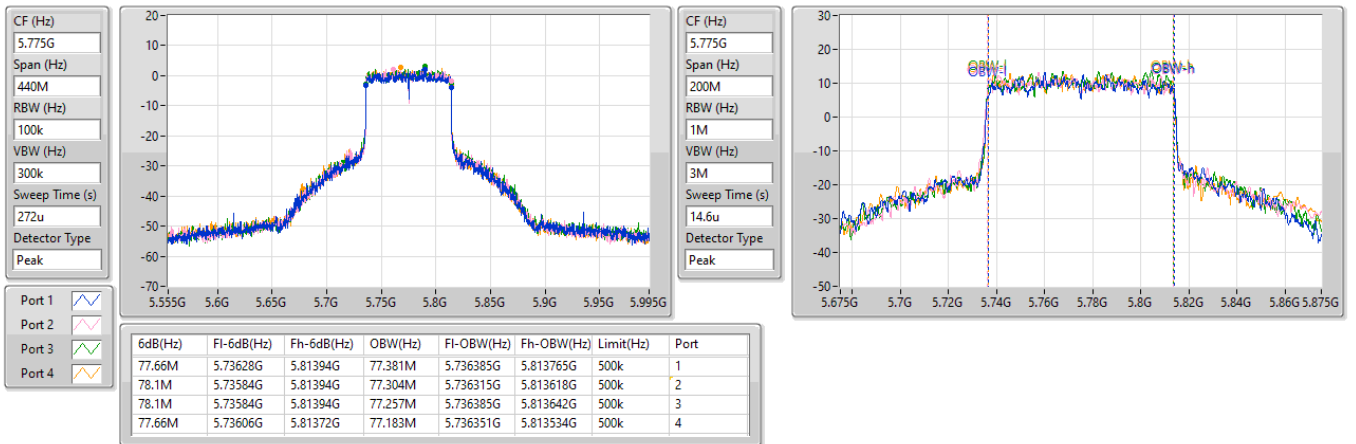


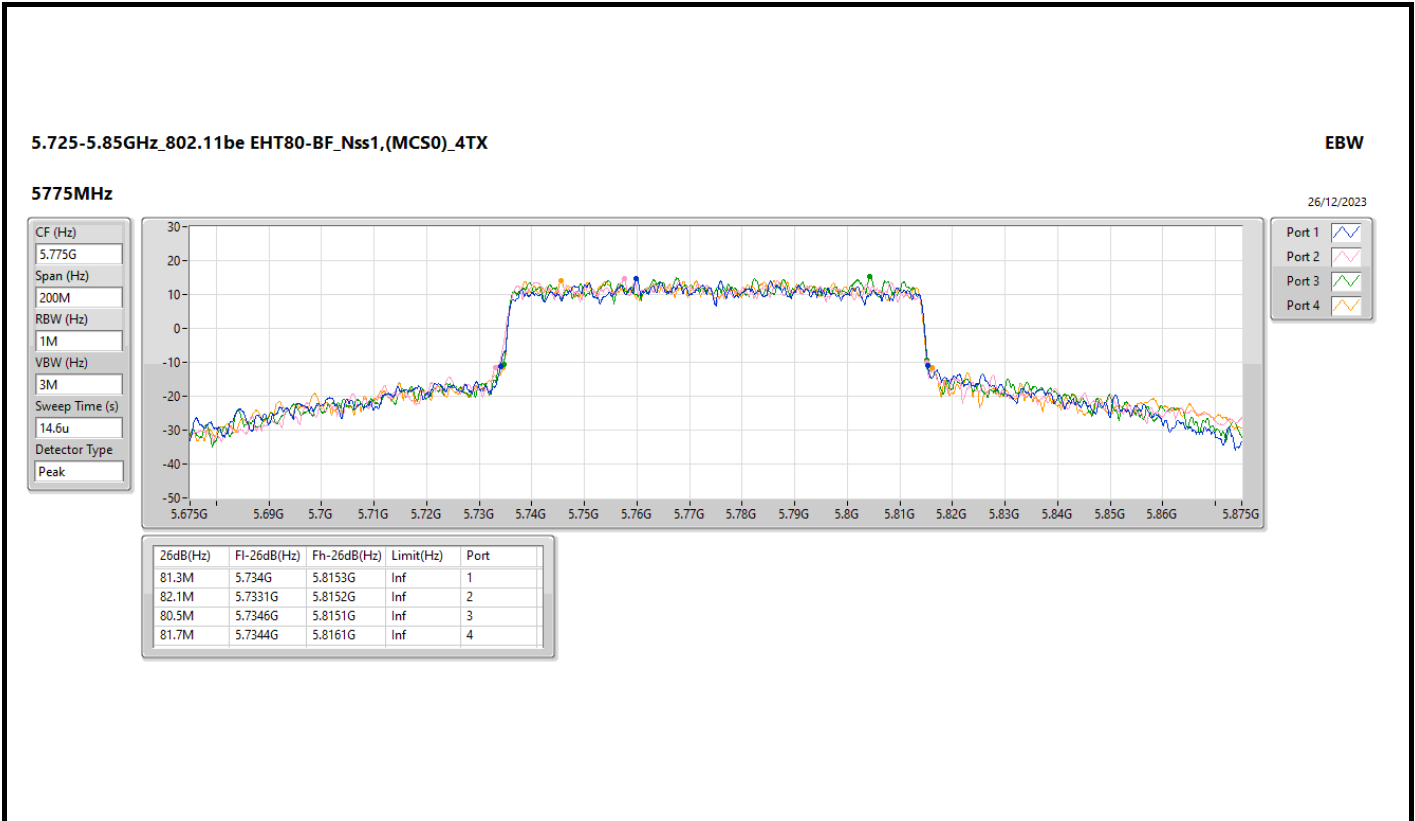
5.725-5.85GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

26/12/2023



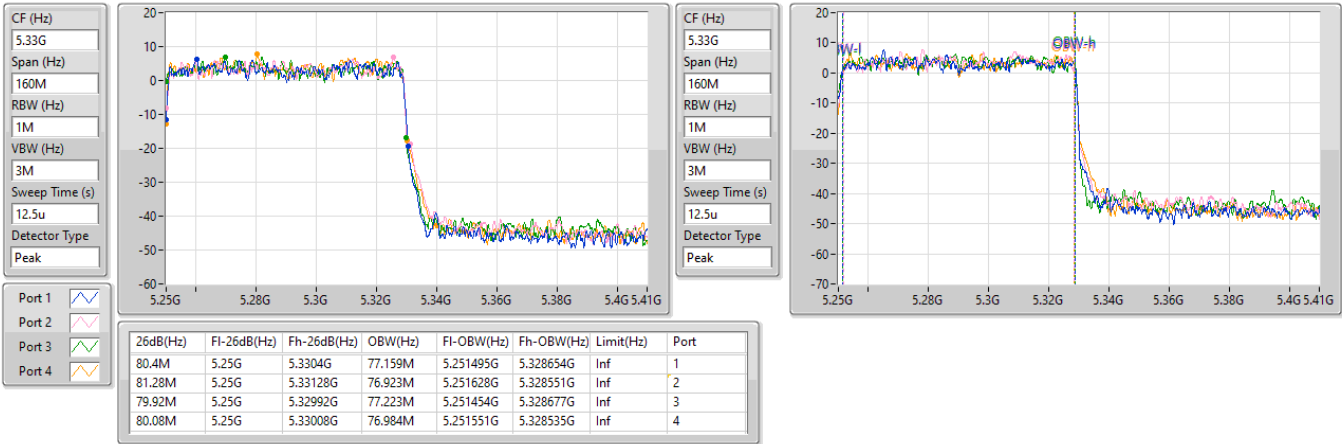


5.25-5.35GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

26/12/2023

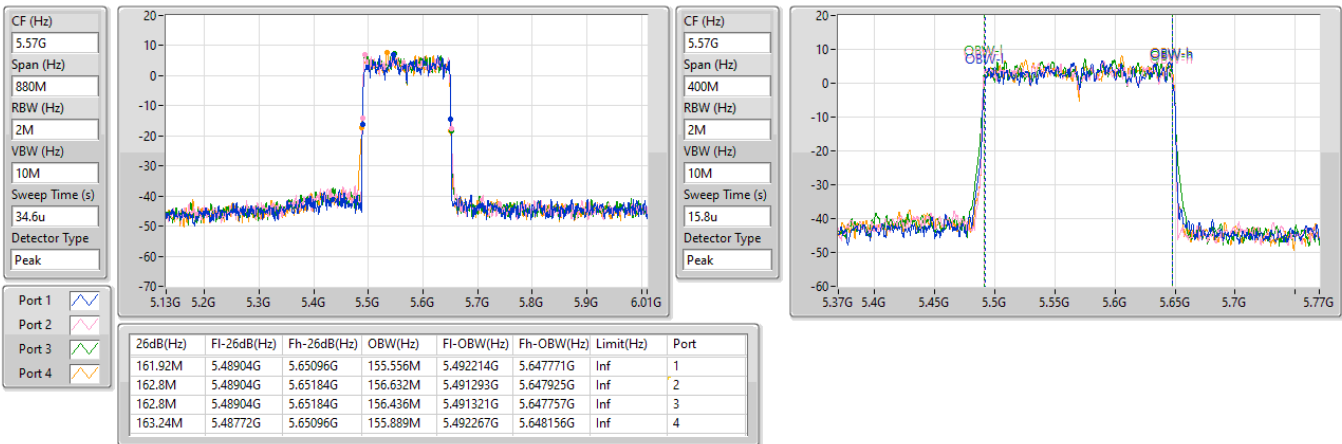


5.47-5.725GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

26/12/2023

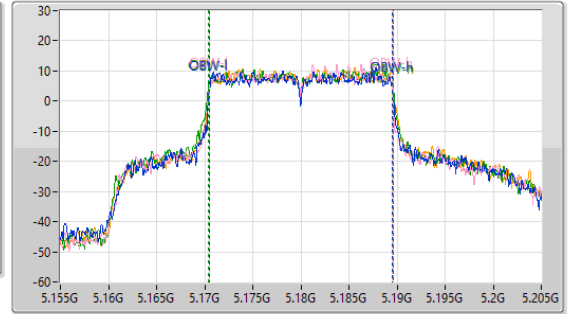
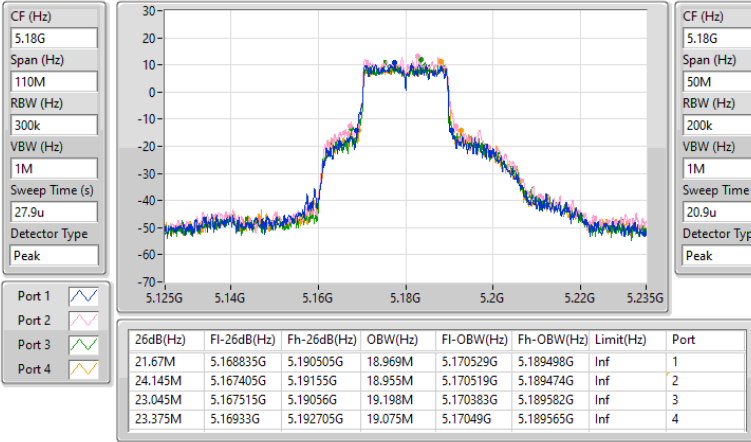


5.15-5.25GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5180MHz

26/12/2023

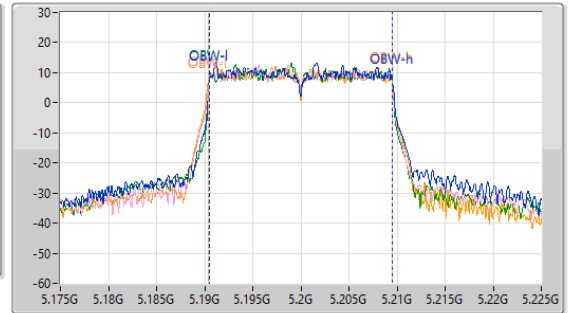
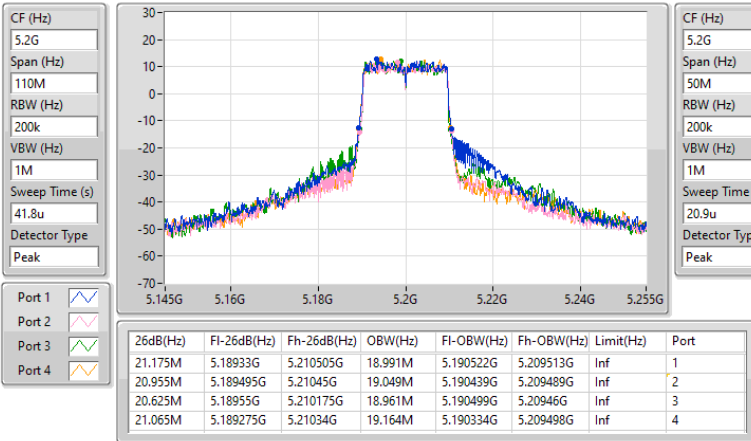


5.15-5.25GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5200MHz

26/12/2023

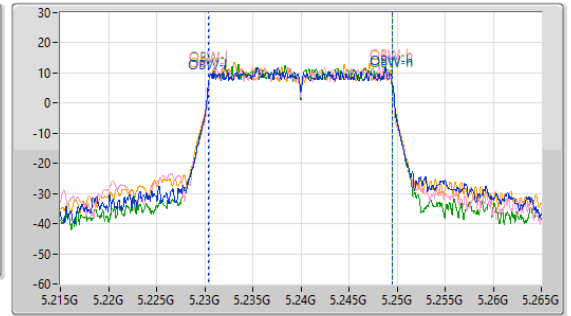
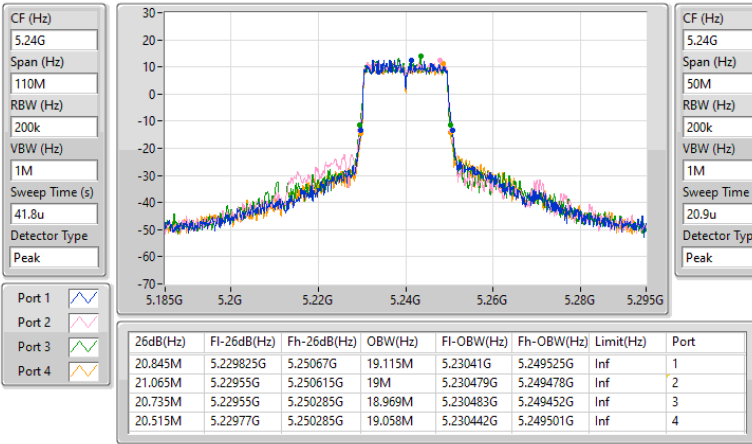


5.15-5.25GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5240MHz

26/12/2023

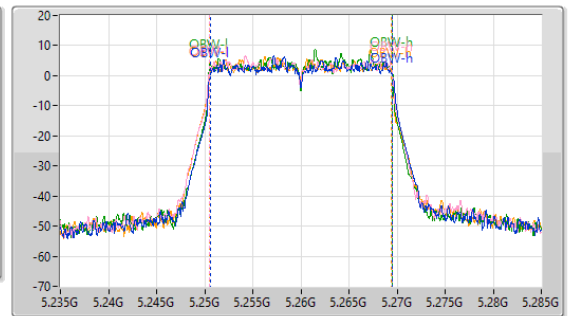
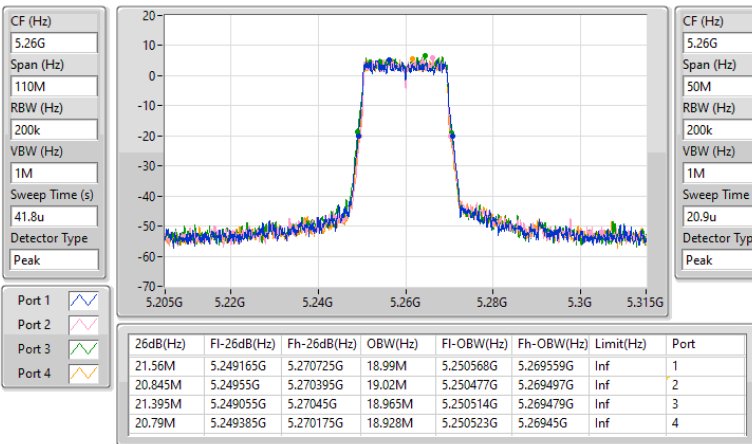


5.25-5.35GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5260MHz

26/12/2023

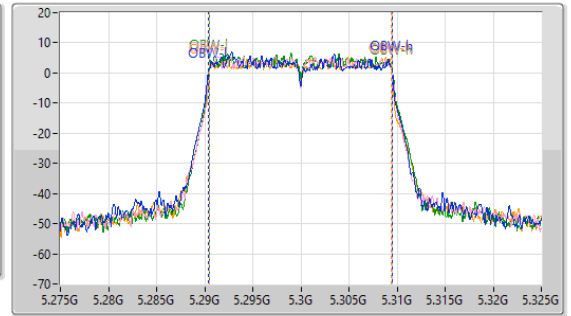
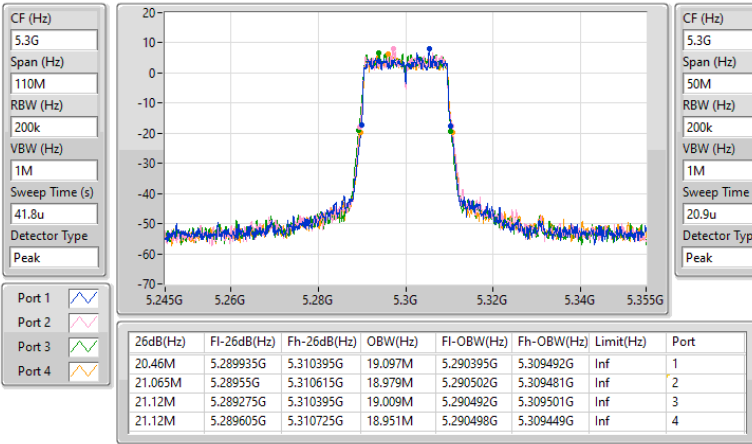


5.25-5.35GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5300MHz

26/12/2023

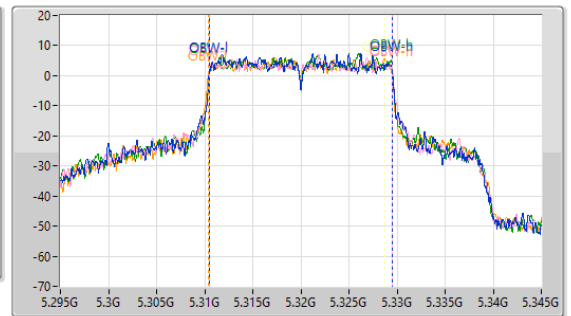
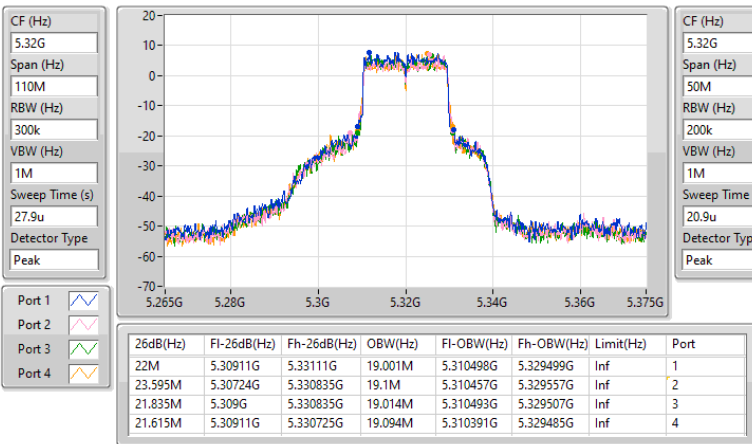


5.25-5.35GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5320MHz

26/12/2023

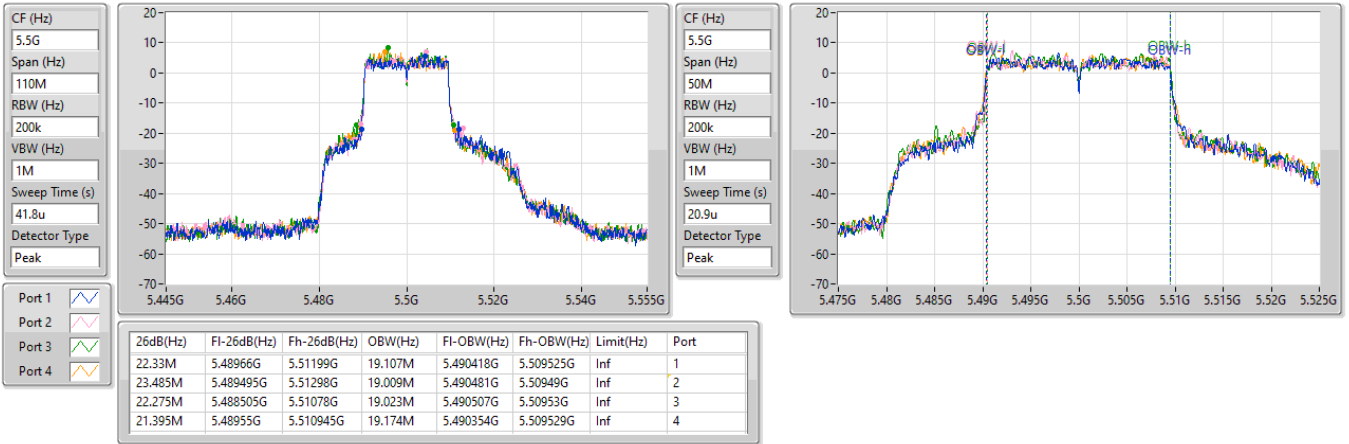


5.47-5.725GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5500MHz

26/12/2023

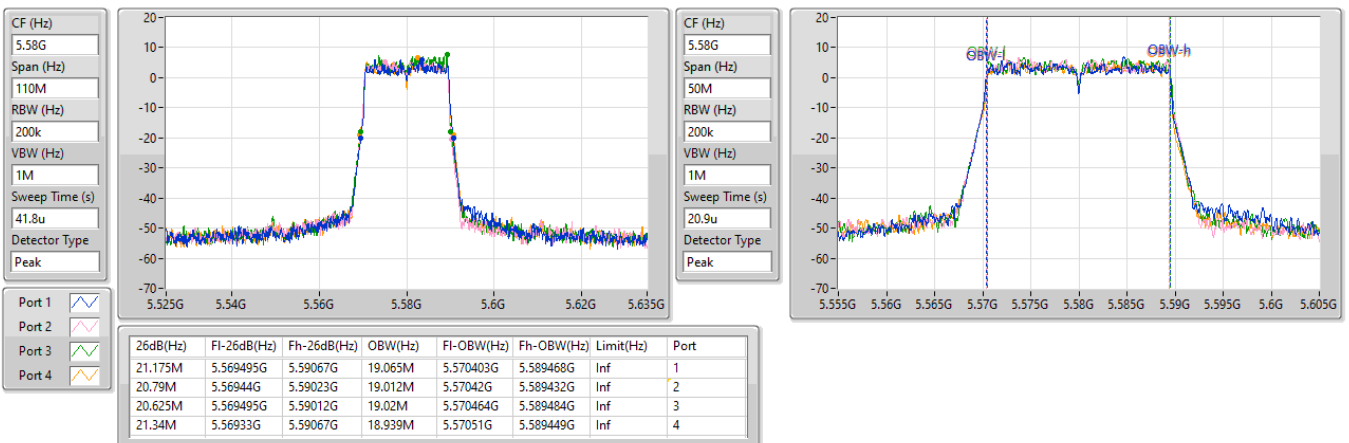


5.47-5.725GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5580MHz

26/12/2023

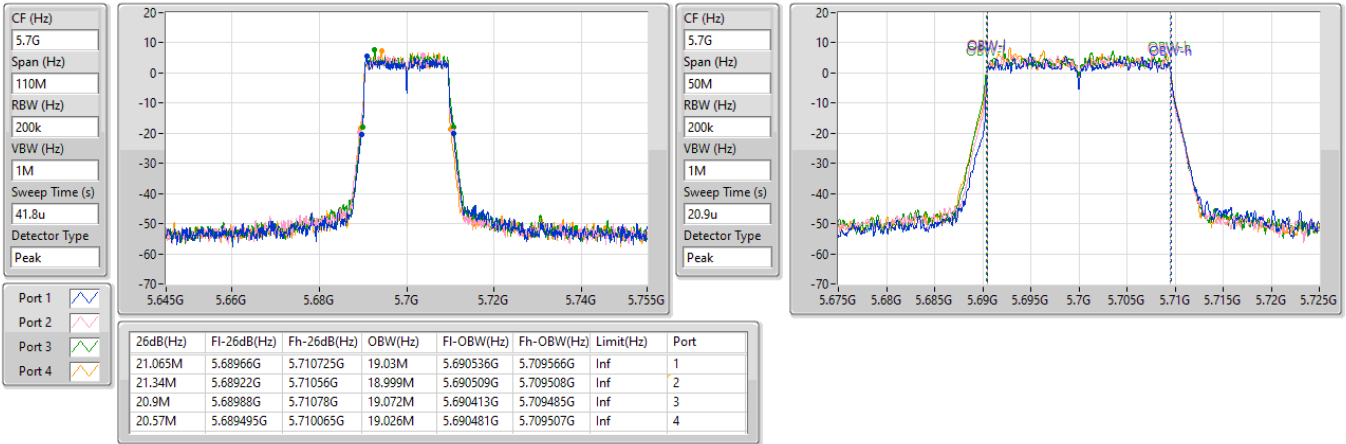


5.47-5.725GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5700MHz

26/12/2023

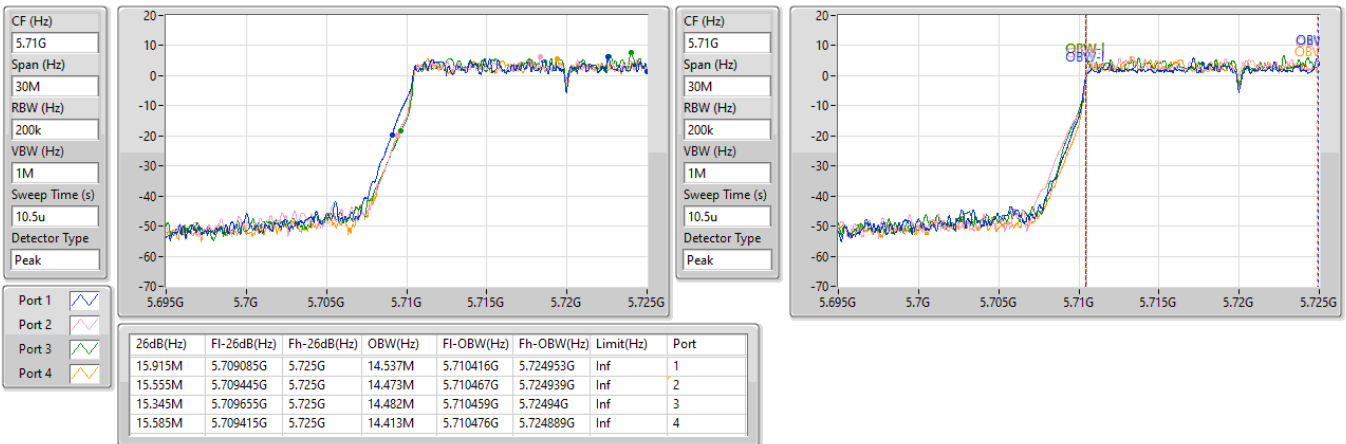


5.47-5.725GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

26/12/2023

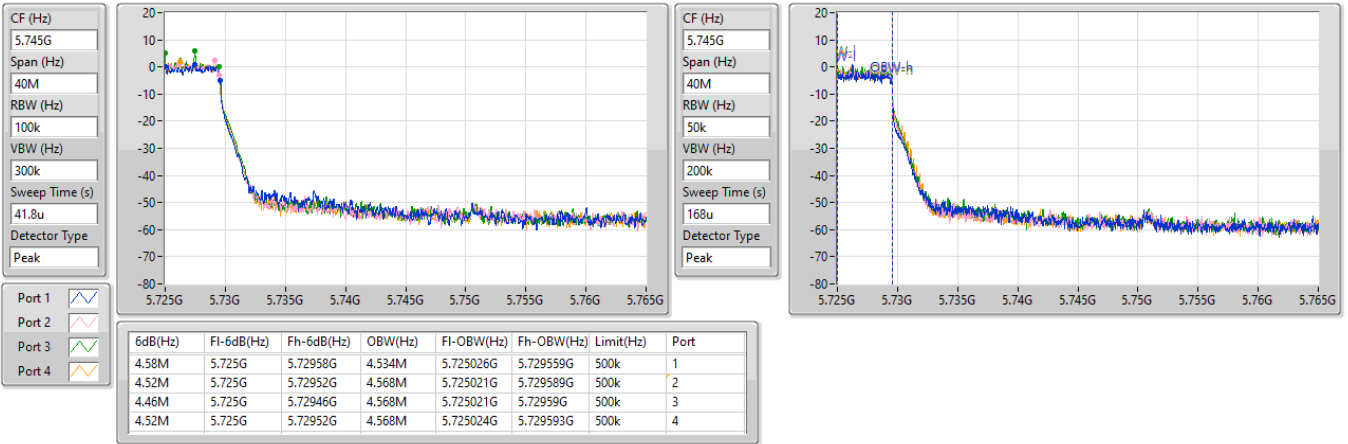


5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/12/2023

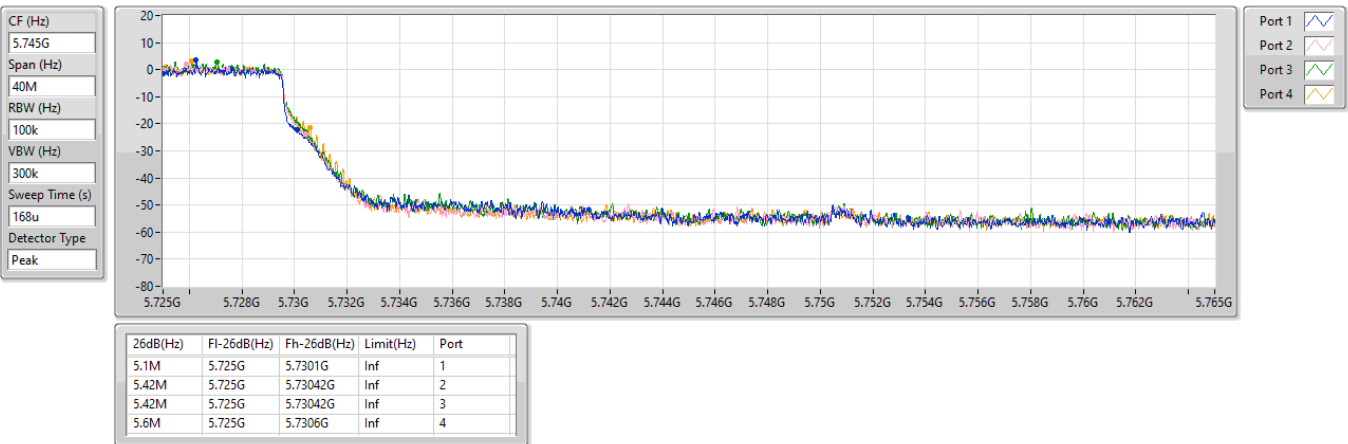


5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/12/2023



5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5745MHz

26/12/2023

CF (Hz)
5.745G

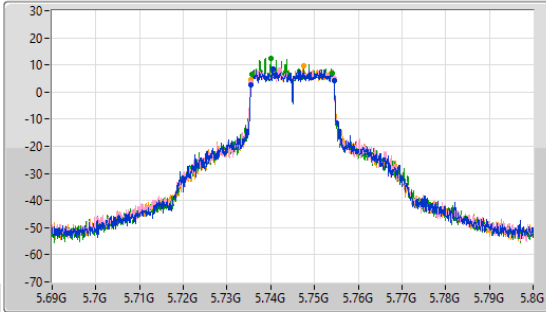
Span (Hz)
110M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep Time (s)
83.7u

Detector Type
Peak



CF (Hz)
5.745G

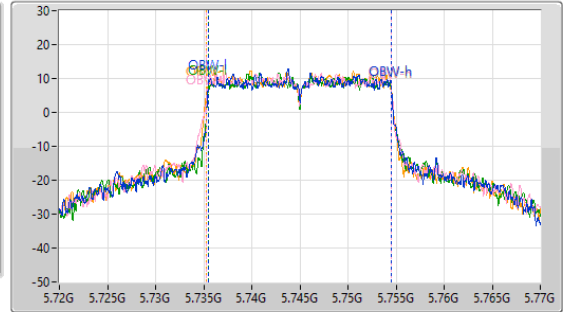
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5745MHz

26/12/2023

CF (Hz)
5.745G

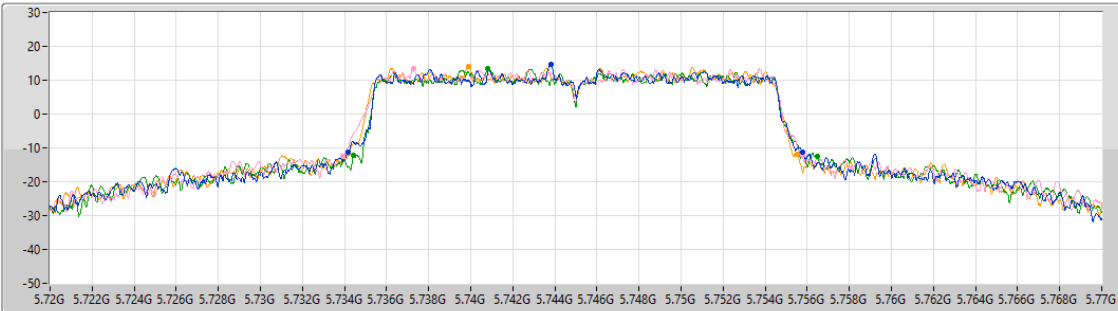
Span (Hz)
50M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

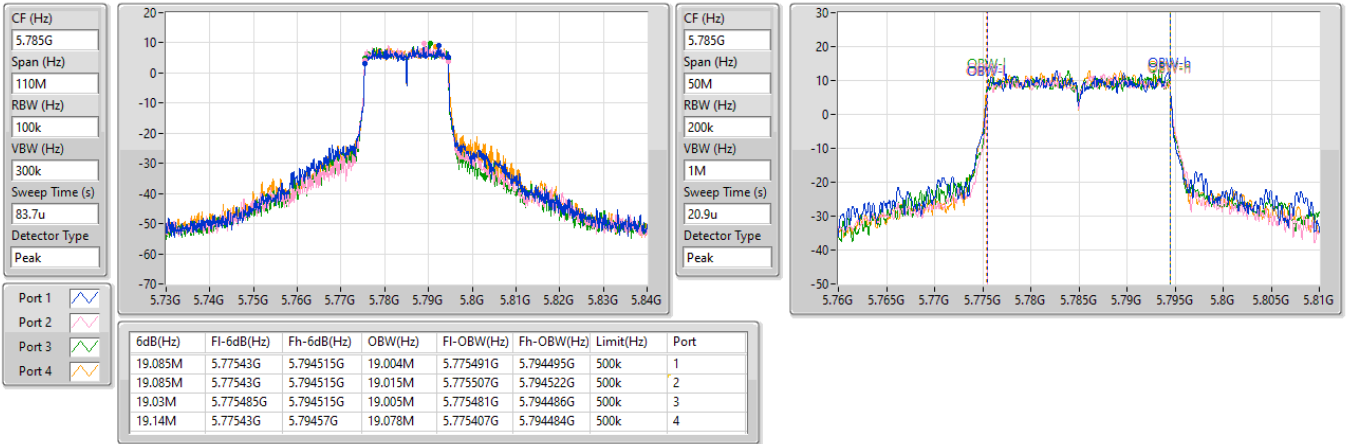
Port 4

5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5785MHz

26/12/2023

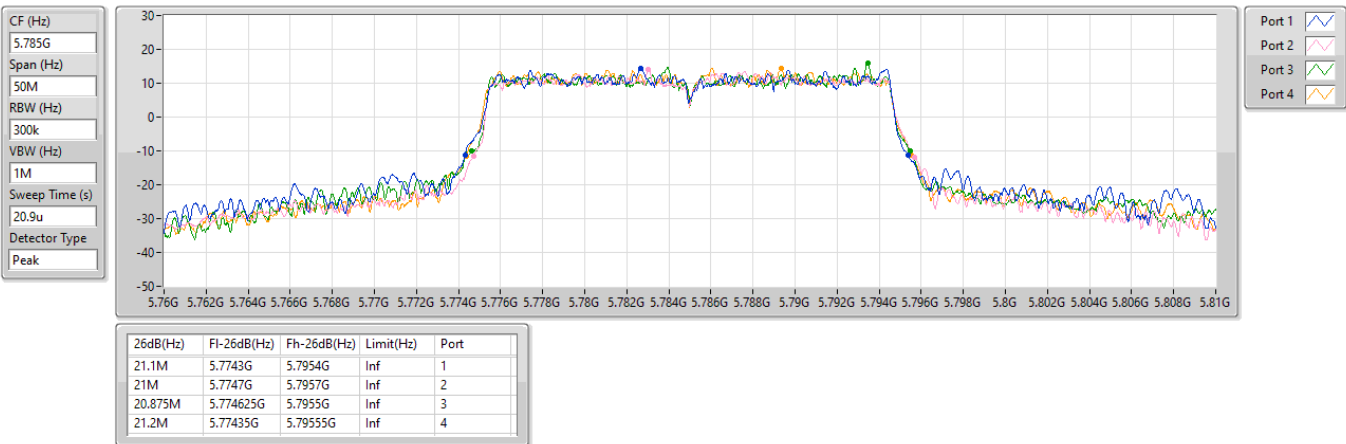


5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5785MHz

26/12/2023

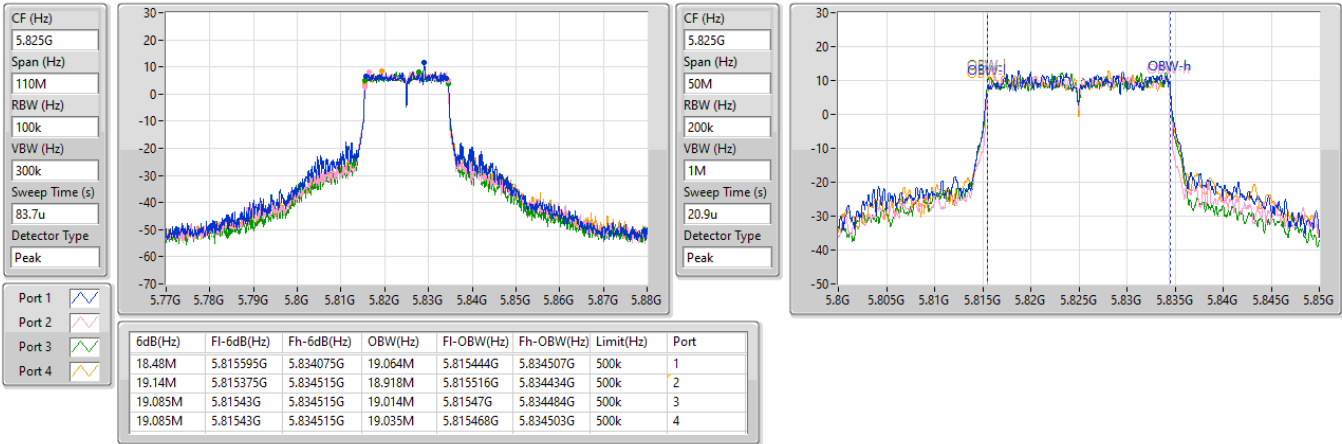


5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5825MHz

26/12/2023

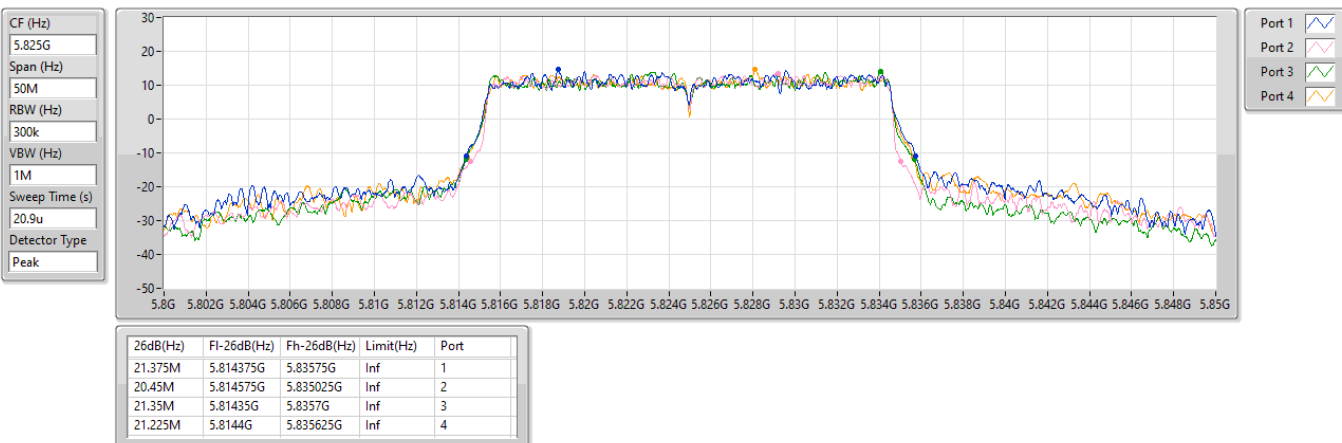


5.725-5.85GHz_802.11be EHT20-BF_Nss2,(MCS0)_4TX

EBW

5825MHz

26/12/2023

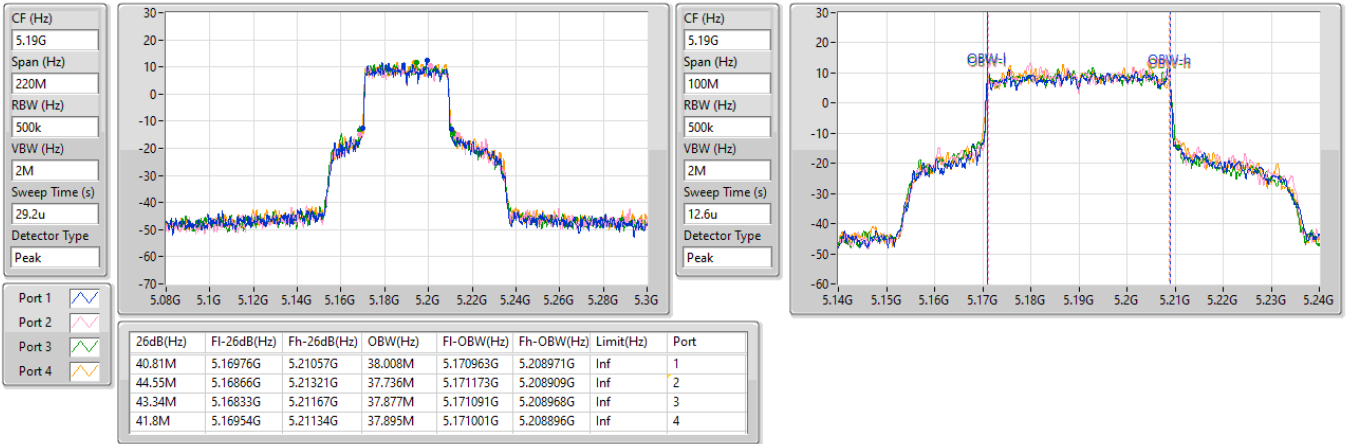


5.15-5.25GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5190MHz

26/12/2023

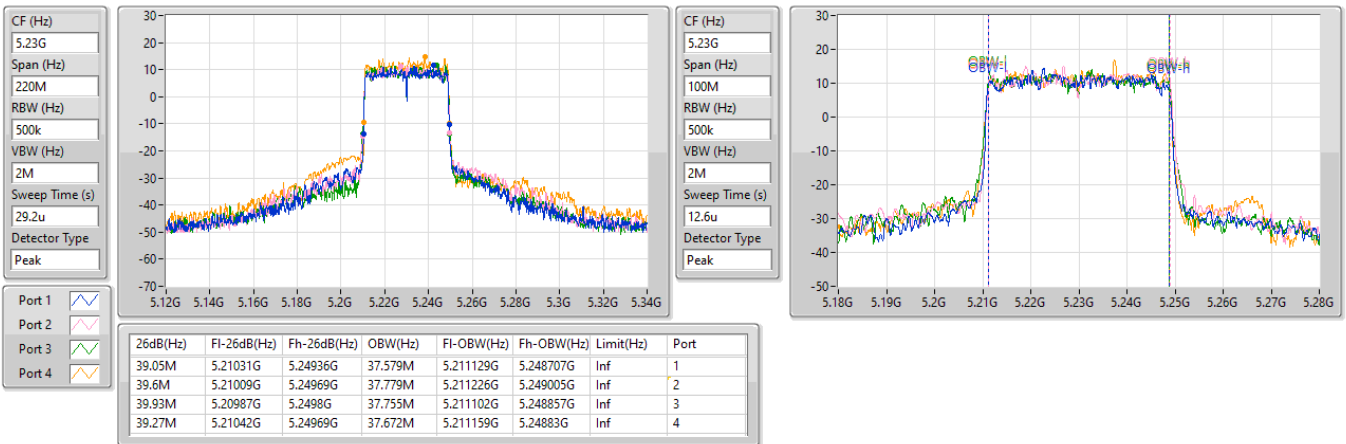


5.15-5.25GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5230MHz

26/12/2023

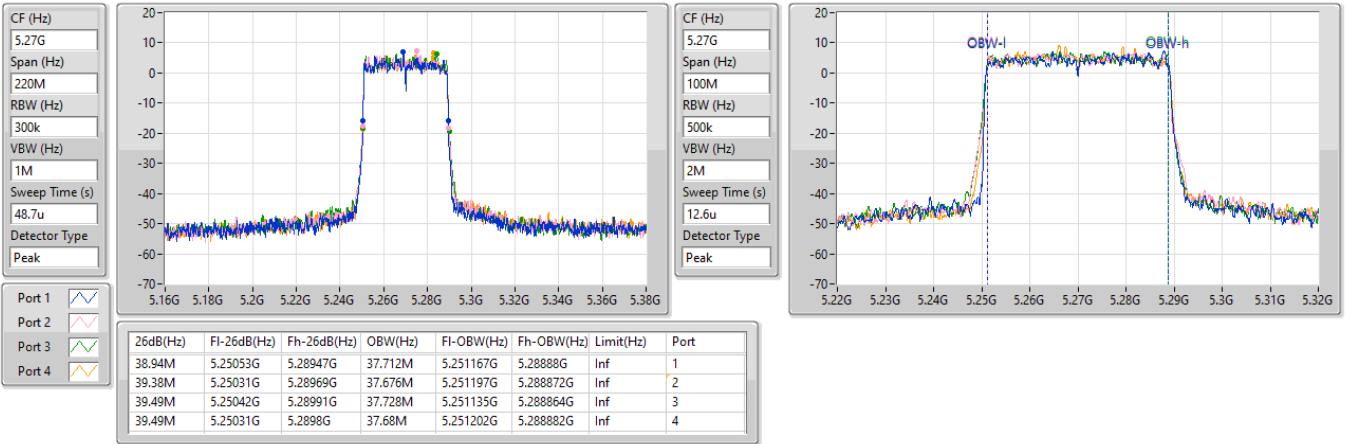


5.25-5.35GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5270MHz

26/12/2023

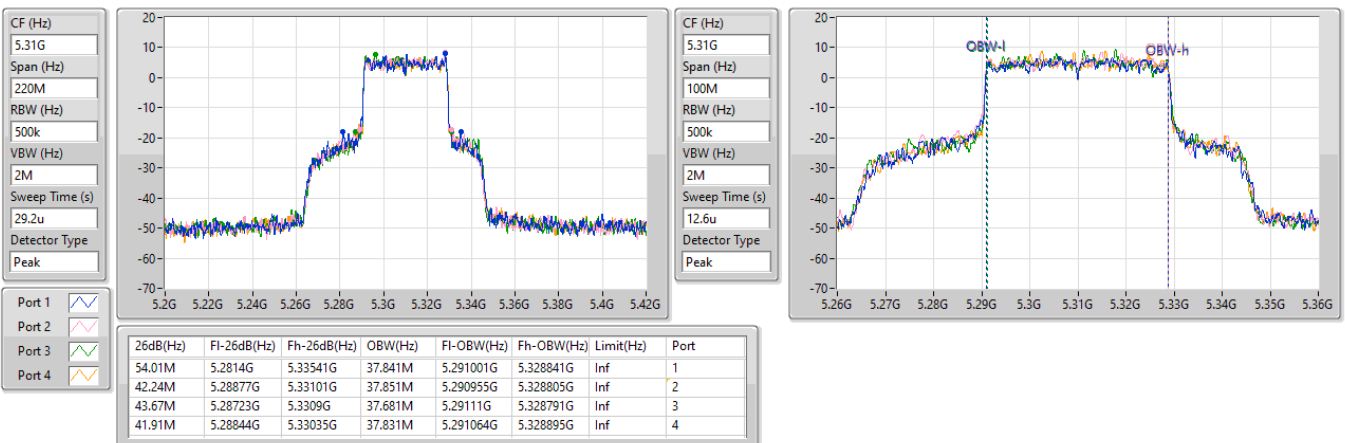


5.25-5.35GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5310MHz

26/12/2023



5.47-5.725GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5510MHz

26/12/2023

CF (Hz)
5.51G

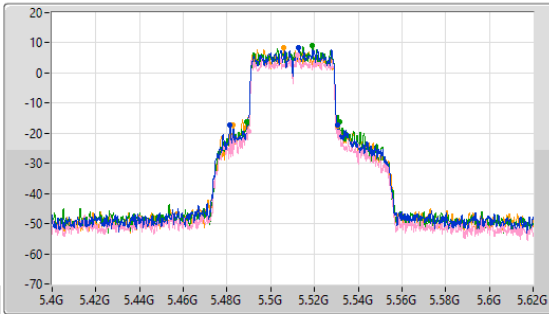
Span (Hz)
220M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
29.2u

Detector Type
Peak



CF (Hz)
5.51G

Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
49.17M	5.48129G	5.53046G	37.777M	5.491167G	5.528944G	Inf	1
41.36M	5.48976G	5.53112G	37.816M	5.491061G	5.528877G	Inf	2
42.35M	5.48999G	5.53134G	37.87M	5.491113G	5.528983G	Inf	3
47.74M	5.48272G	5.53046G	37.93M	5.491167G	5.529097G	Inf	4

5.47-5.725GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5550MHz

26/12/2023

CF (Hz)
5.55G

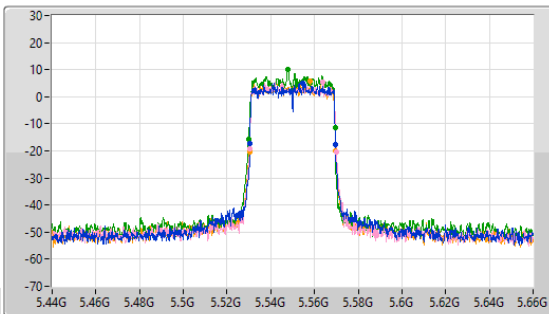
Span (Hz)
220M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
29.2u

Detector Type
Peak



CF (Hz)
5.55G

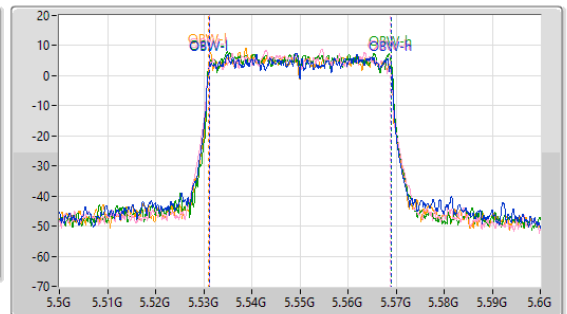
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.94M	5.53053G	5.56947G	37.8M	5.531117G	5.568917G	Inf	1
39.6M	5.53042G	5.57002G	37.677M	5.531142G	5.568819G	Inf	2
39.6M	5.52987G	5.56947G	37.9M	5.531113G	5.569013G	Inf	3
39.49M	5.5302G	5.56969G	37.67M	5.531095G	5.568765G	Inf	4

5.47-5.725GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5670MHz

26/12/2023

CF (Hz)
5.67G

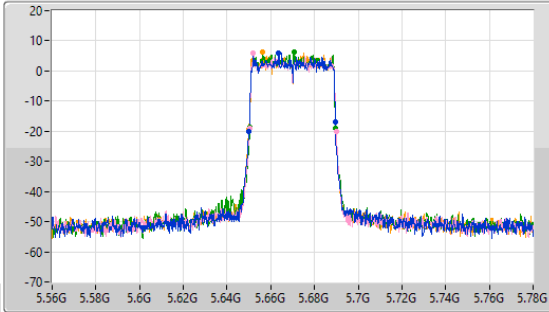
Span (Hz)
220M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
48.7u

Detector Type
Peak



CF (Hz)
5.67G

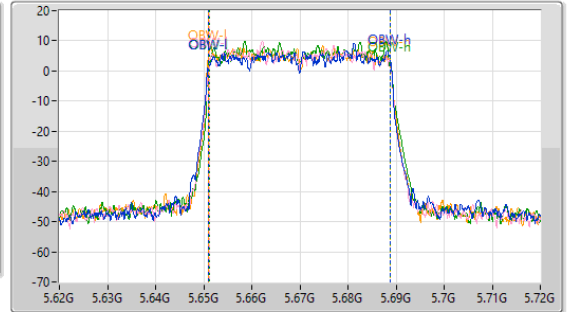
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.49M	5.64998G	5.68947G	37.861M	5.651027G	5.688888G	Inf	1
39.71M	5.6502G	5.68991G	37.584M	5.65124G	5.688825G	Inf	2
39.05M	5.65042G	5.68947G	37.449M	5.651272G	5.688721G	Inf	3
39.82M	5.64998G	5.6898G	37.84M	5.65096G	5.6888G	Inf	4

5.47-5.725GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

26/12/2023

CF (Hz)
5.69G

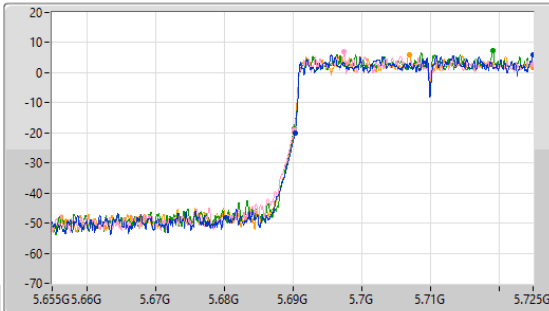
Span (Hz)
70M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



CF (Hz)
5.69G

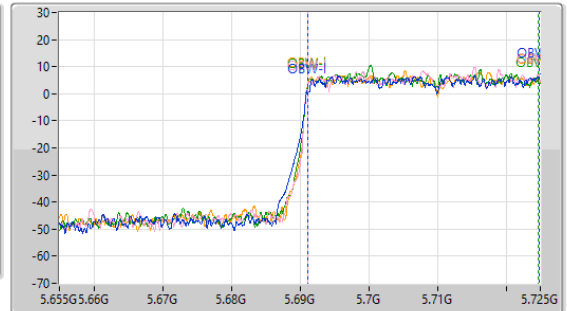
Span (Hz)
70M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

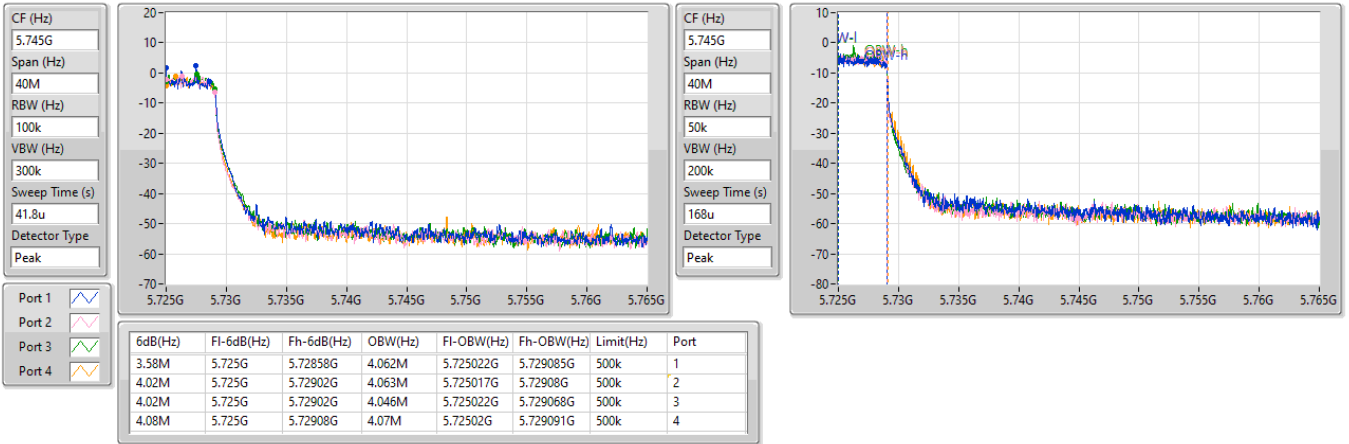
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.615M	5.690385G	5.725G	33.752M	5.691157G	5.724909G	Inf	1
34.79M	5.69021G	5.725G	33.602M	5.691202G	5.724804G	Inf	2
34.825M	5.690175G	5.725G	33.534M	5.691196G	5.72473G	Inf	3
34.79M	5.69021G	5.725G	33.666M	5.691143G	5.724809G	Inf	4

5.725-5.85GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

26/12/2023

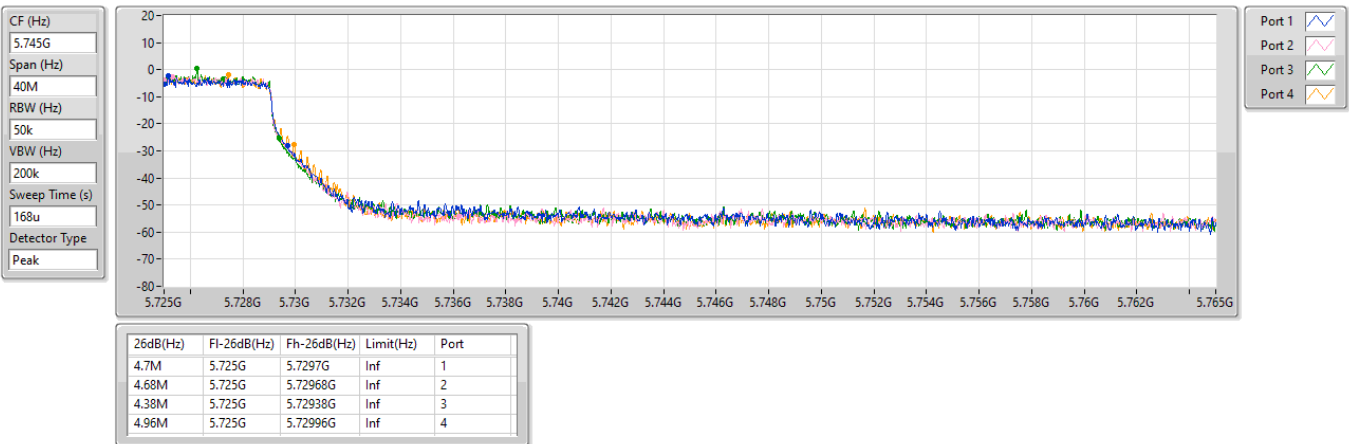


5.725-5.85GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

26/12/2023

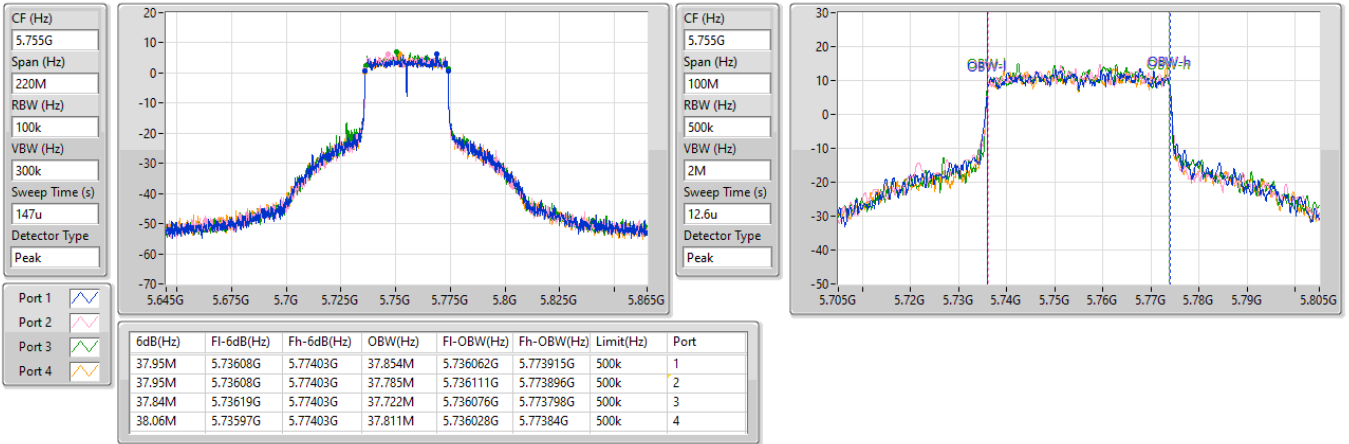


5.725-5.85GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5755MHz

26/12/2023

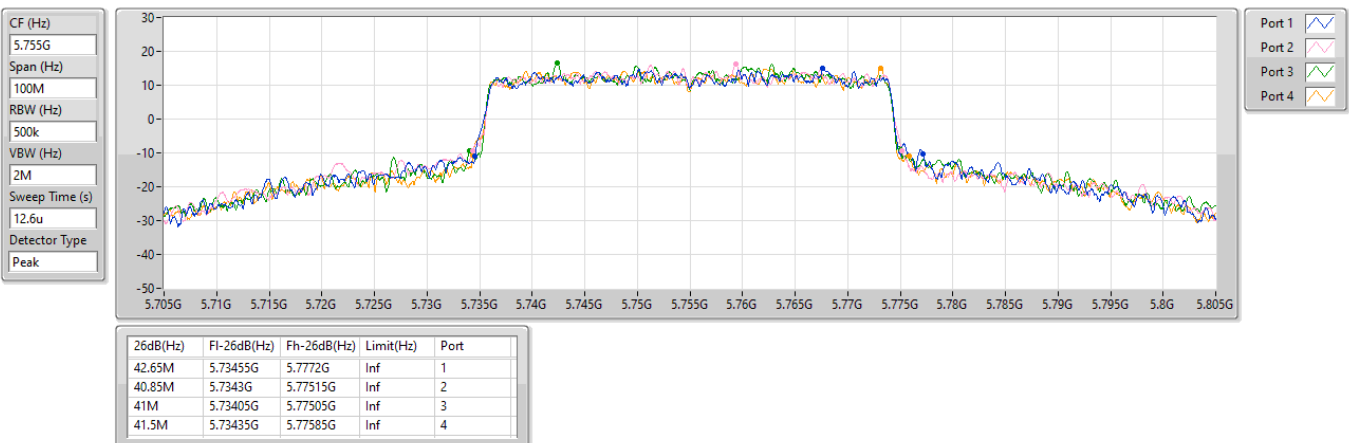


5.725-5.85GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5755MHz

26/12/2023

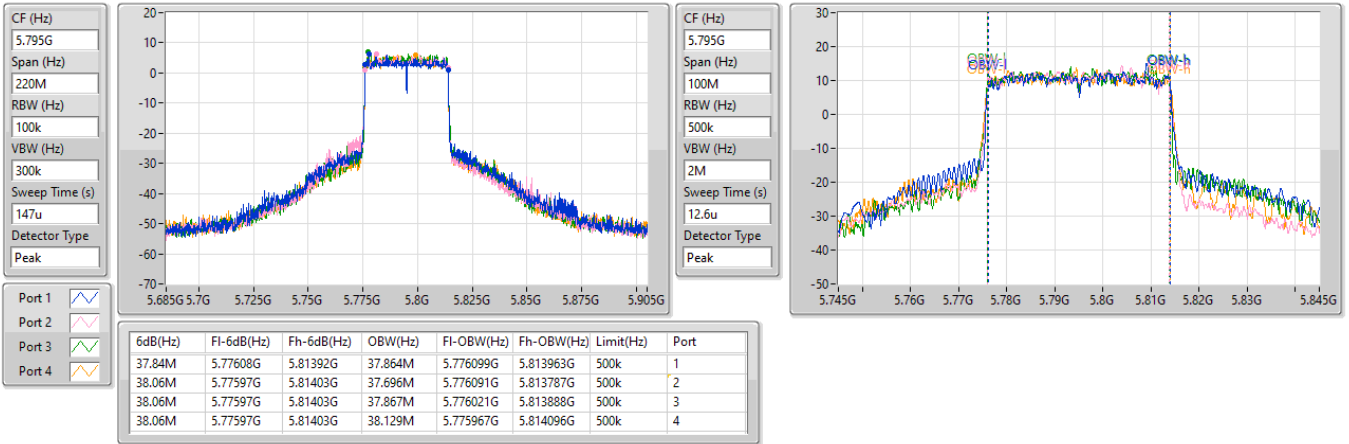


5.725-5.85GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5795MHz

26/12/2023

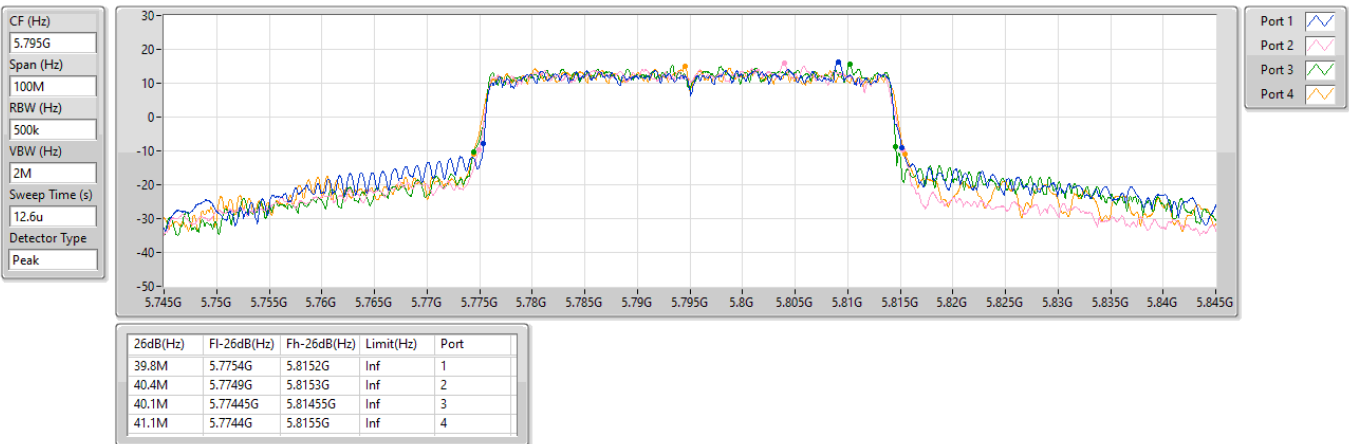


5.725-5.85GHz_802.11be EHT40-BF_Nss2,(MCS0)_4TX

EBW

5795MHz

26/12/2023



5.15-5.25GHz_802.11be EHT80-BF_Nss2,(MCS0)_4TX

EBW

5210MHz

26/12/2023

CF (Hz)
5.21G

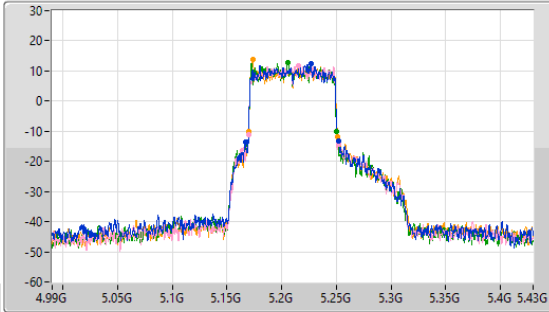
Span (Hz)
440M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
29.3u

Detector Type
Peak



CF (Hz)
5.21G

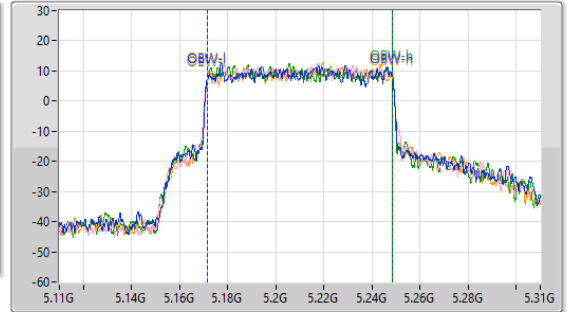
Span (Hz)
200M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
14.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
85.36M	5.16666G	5.25202G	77.279M	5.171395G	5.248674G	Inf	1
82.28M	5.16952G	5.2518G	77.15M	5.171528G	5.248677G	Inf	2
80.3M	5.16974G	5.25004G	77.251M	5.171374G	5.248625G	Inf	3
81.18M	5.16974G	5.25092G	77.059M	5.171541G	5.2486G	Inf	4

5.25-5.35GHz_802.11be EHT80-BF_Nss2,(MCS0)_4TX

EBW

5290MHz

26/12/2023

CF (Hz)
5.29G

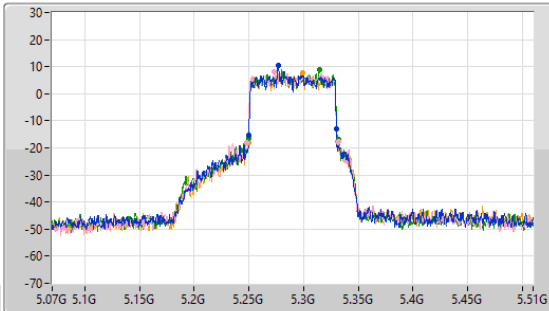
Span (Hz)
440M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
29.3u

Detector Type
Peak



CF (Hz)
5.29G

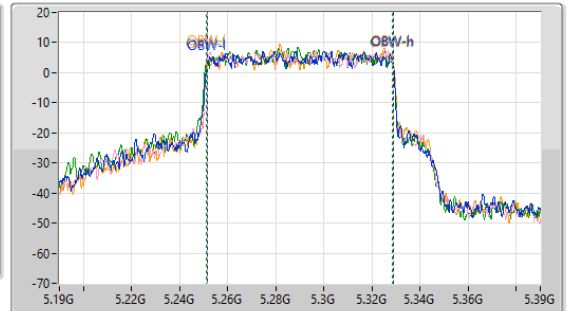
Span (Hz)
200M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
14.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

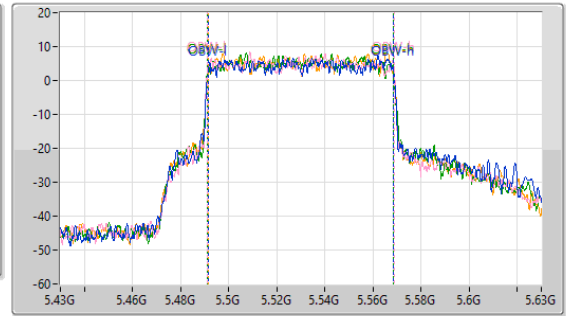
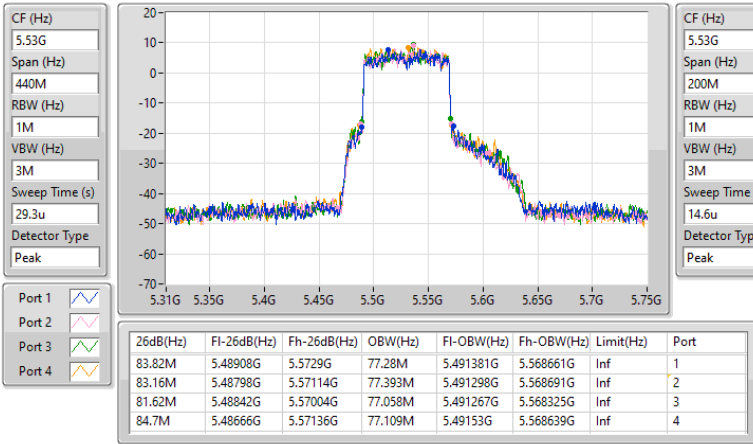
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.08M	5.24996G	5.33004G	77.387M	5.251344G	5.328732G	Inf	1
84.7M	5.24754G	5.33224G	77.29M	5.251434G	5.328724G	Inf	2
82.5M	5.24974G	5.33224G	77.572M	5.250952G	5.328525G	Inf	3
81.84M	5.24952G	5.33136G	77.509M	5.251395G	5.328904G	Inf	4

5.47-5.725GHz_802.11be EHT80-BF_Nss2,(MCS0)_4TX

EBW

5530MHz

26/12/2023

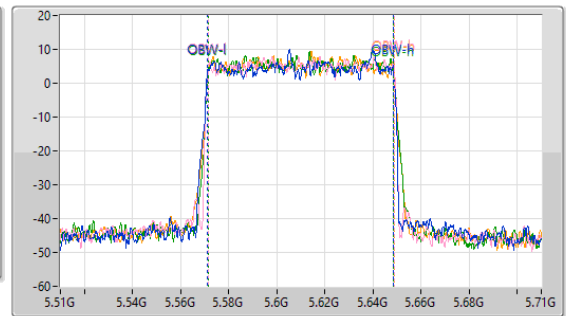
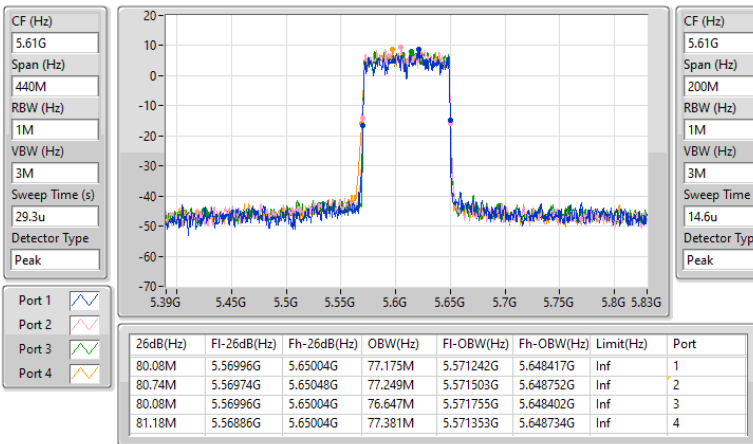


5.47-5.725GHz_802.11be EHT80-BF_Nss2,(MCS0)_4TX

EBW

5610MHz

26/12/2023

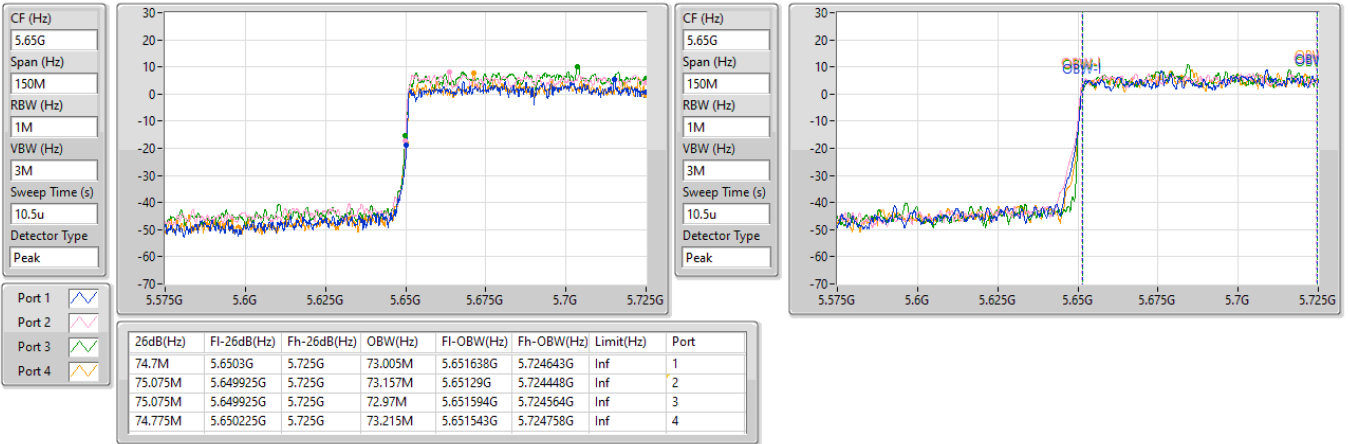


5.47-5.725GHz_802.11be EHT80-BF_Nss2,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

26/12/2023

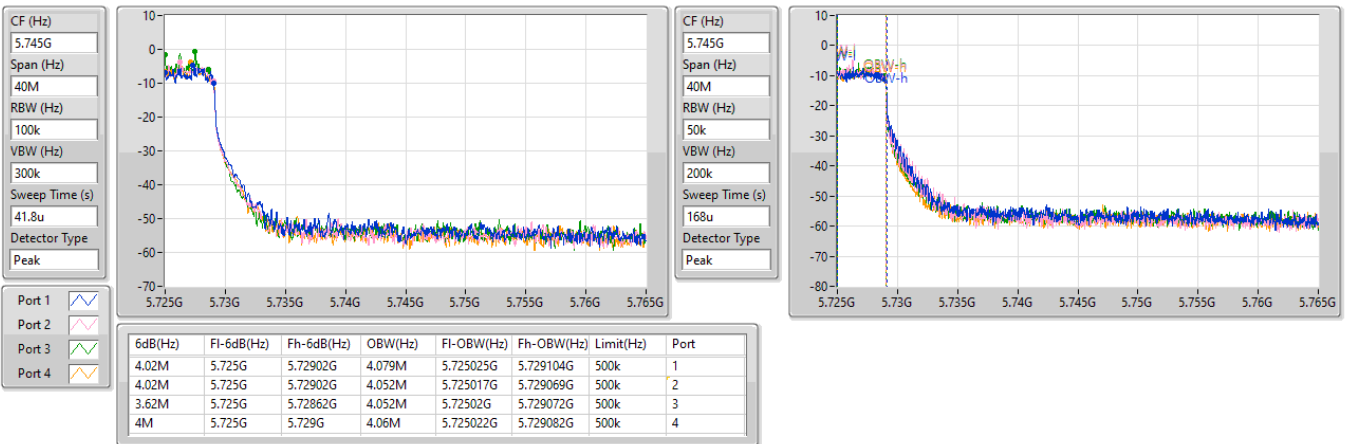


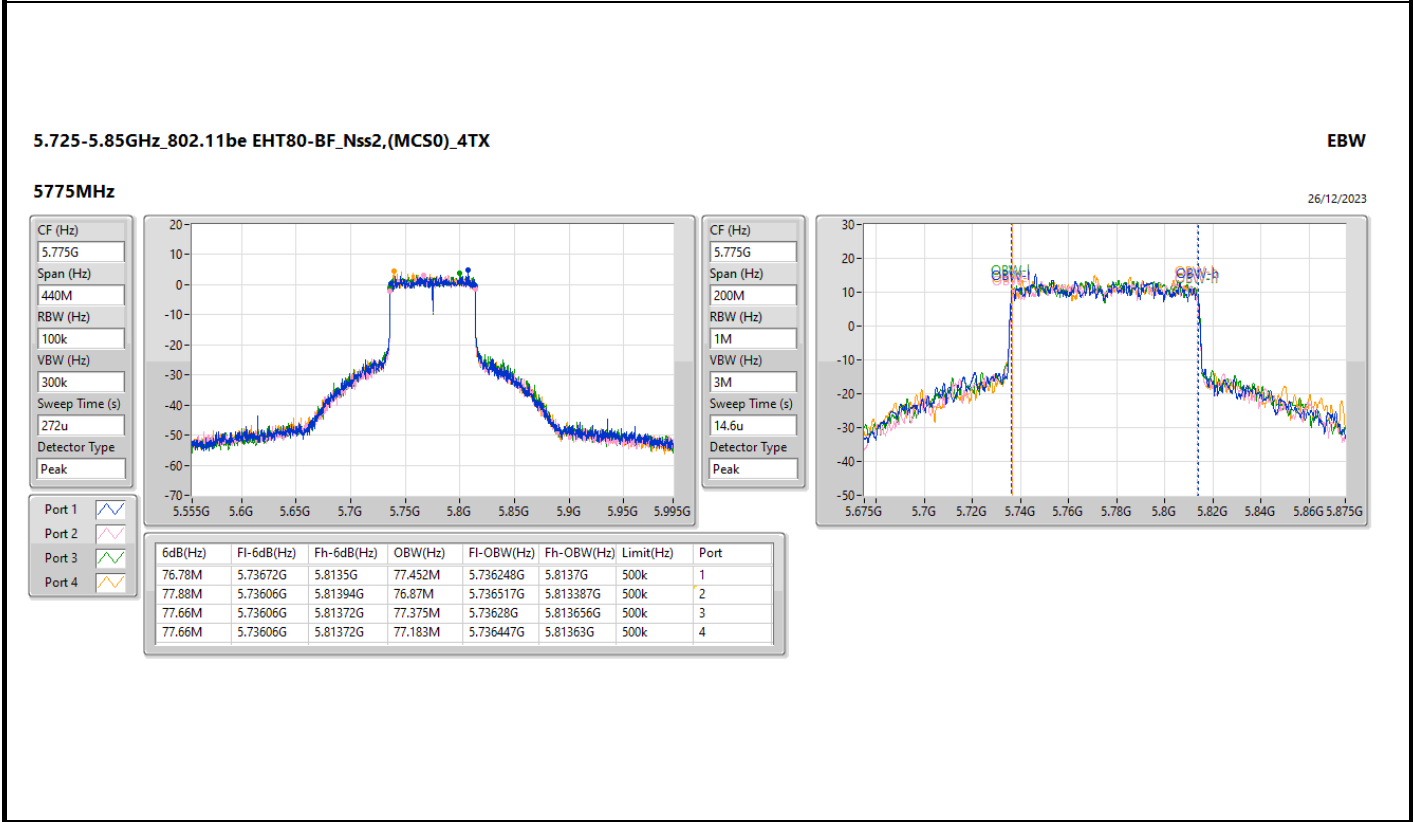
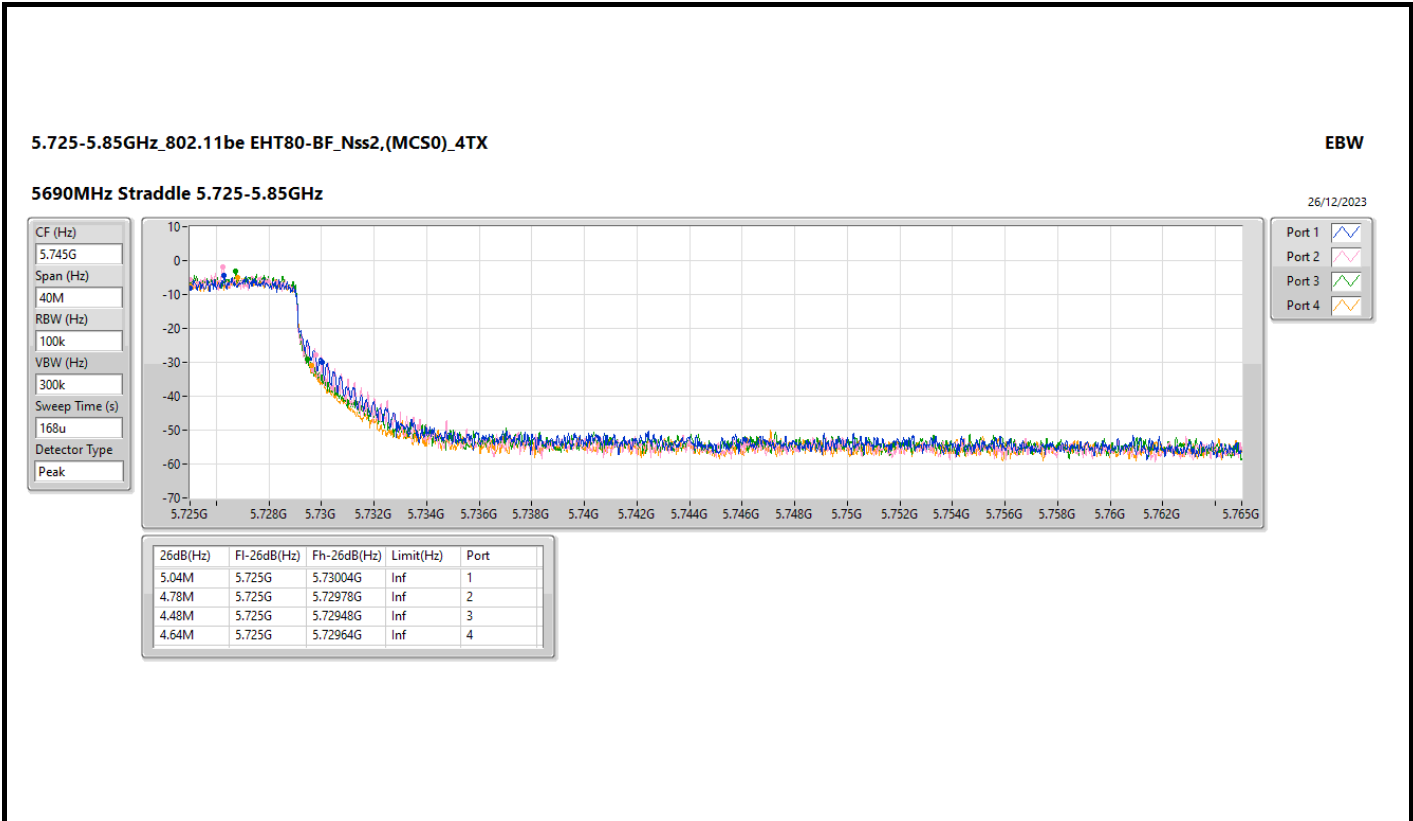
5.725-5.85GHz_802.11be EHT80-BF_Nss2,(MCS0)_4TX

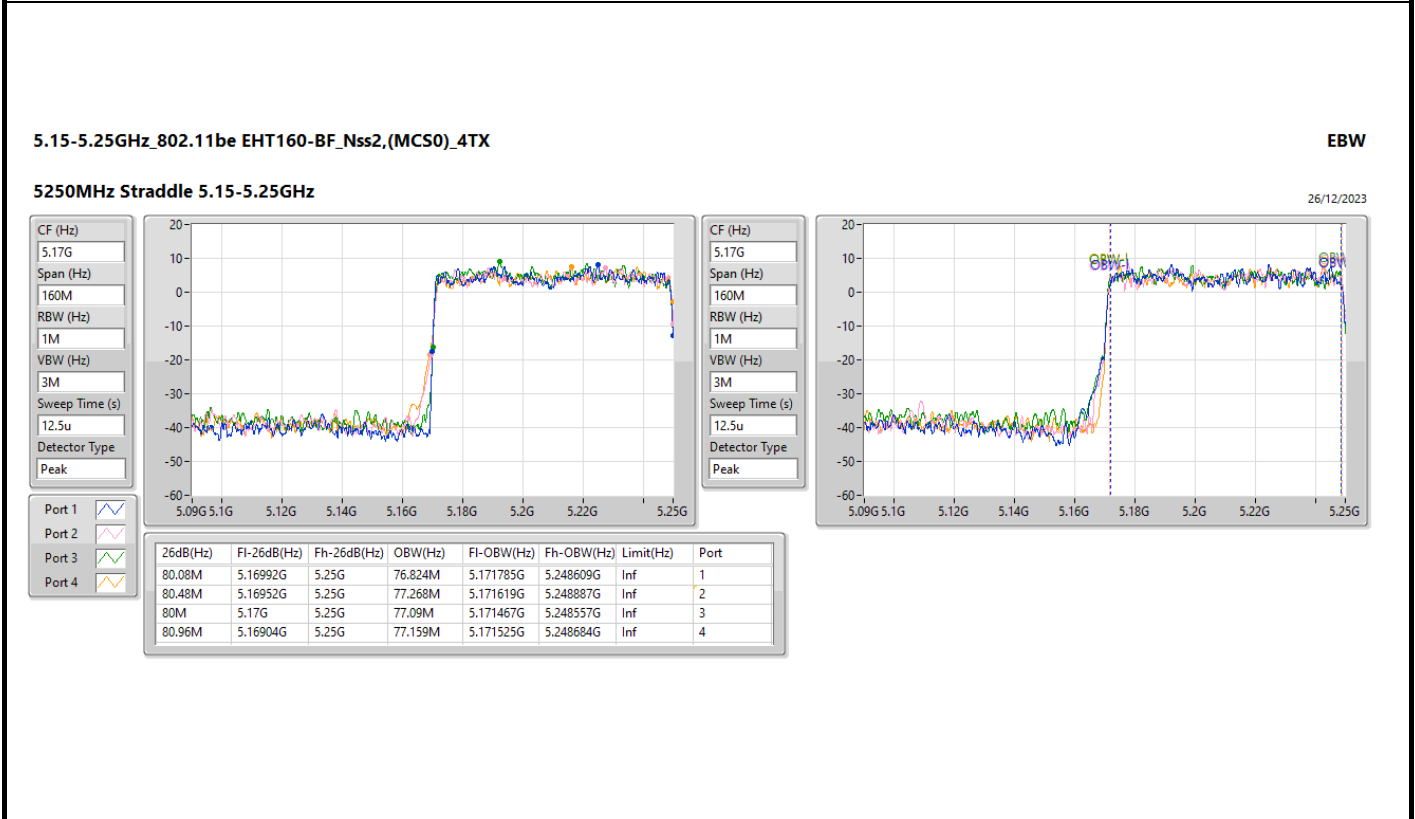
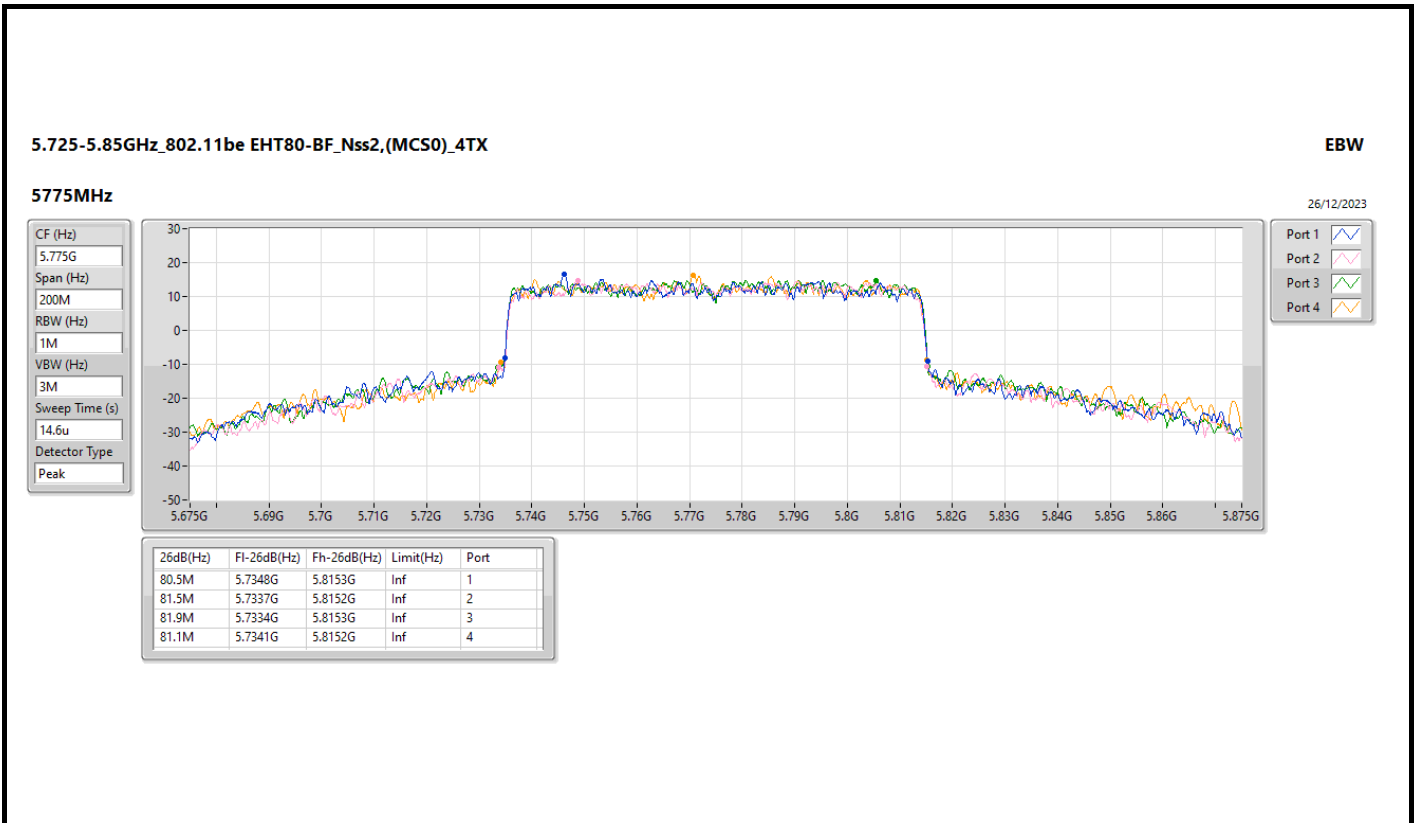
EBW

5690MHz Straddle 5.725-5.85GHz

26/12/2023





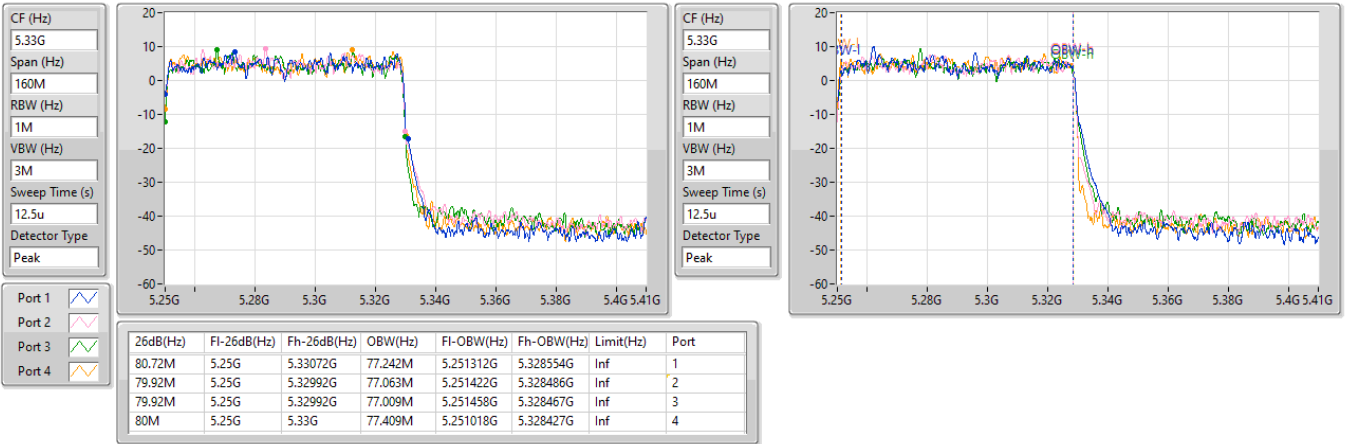


5.25-5.35GHz_802.11be EHT160-BF_Nss2,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

26/12/2023

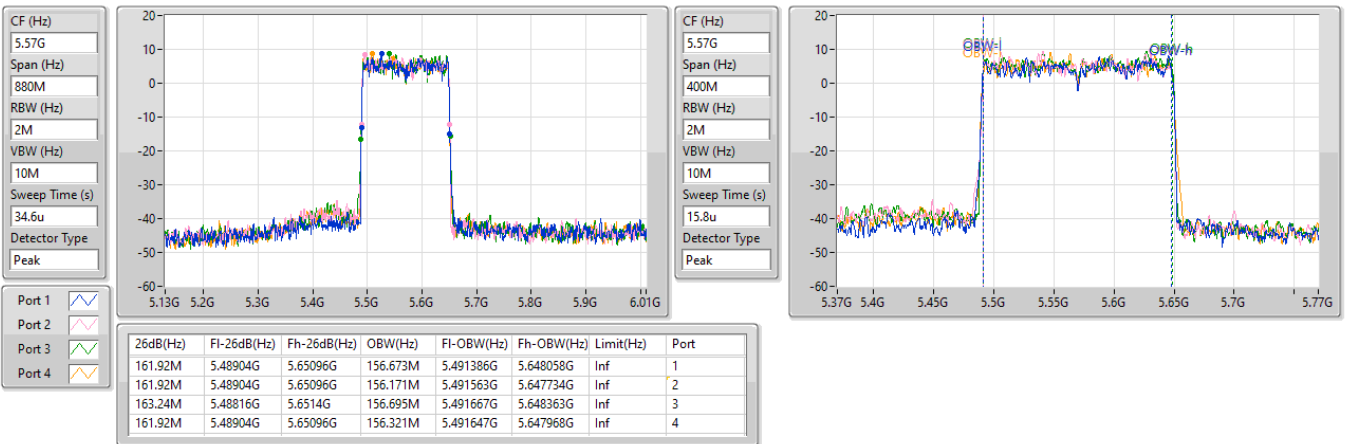


5.47-5.725GHz_802.11be EHT160-BF_Nss2,(MCS0)_4TX

EBW

5570MHz

26/12/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.48	0.88716
802.11be EHT20-BF_Nss1,(MCS0)_4TX	28.60	0.72444
802.11be EHT20-BF_Nss2,(MCS0)_4TX	29.92	0.98175
802.11be EHT40-BF_Nss1,(MCS0)_4TX	28.53	0.71285
802.11be EHT40-BF_Nss2,(MCS0)_4TX	29.83	0.96161
802.11be EHT80-BF_Nss1,(MCS0)_4TX	27.02	0.50350
802.11be EHT80-BF_Nss2,(MCS0)_4TX	28.01	0.63241
802.11be EHT160-BF_Nss1,(MCS0)_4TX	22.47	0.17660
802.11be EHT160-BF_Nss2,(MCS0)_4TX	23.73	0.23605
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	22.90	0.19498
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.54	0.17947
802.11be EHT20-BF_Nss2,(MCS0)_4TX	23.92	0.24660
802.11be EHT40-BF_Nss1,(MCS0)_4TX	22.58	0.18113
802.11be EHT40-BF_Nss2,(MCS0)_4TX	23.83	0.24155
802.11be EHT80-BF_Nss1,(MCS0)_4TX	22.56	0.18030
802.11be EHT80-BF_Nss2,(MCS0)_4TX	23.74	0.23659
802.11be EHT160-BF_Nss1,(MCS0)_4TX	22.53	0.17906
802.11be EHT160-BF_Nss2,(MCS0)_4TX	23.95	0.24831
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	22.76	0.18880
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.52	0.17865
802.11be EHT20-BF_Nss2,(MCS0)_4TX	23.85	0.24266
802.11be EHT40-BF_Nss1,(MCS0)_4TX	22.55	0.17989
802.11be EHT40-BF_Nss2,(MCS0)_4TX	23.96	0.24889
802.11be EHT80-BF_Nss1,(MCS0)_4TX	22.50	0.17783
802.11be EHT80-BF_Nss2,(MCS0)_4TX	23.95	0.24831
802.11be EHT160-BF_Nss1,(MCS0)_4TX	22.56	0.18030
802.11be EHT160-BF_Nss2,(MCS0)_4TX	23.95	0.24831
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.86	0.96828
802.11be EHT20-BF_Nss1,(MCS0)_4TX	28.86	0.76913
802.11be EHT20-BF_Nss2,(MCS0)_4TX	29.94	0.98628
802.11be EHT40-BF_Nss1,(MCS0)_4TX	28.85	0.76736
802.11be EHT40-BF_Nss2,(MCS0)_4TX	29.94	0.98628
802.11be EHT80-BF_Nss1,(MCS0)_4TX	28.94	0.78343
802.11be EHT80-BF_Nss2,(MCS0)_4TX	29.89	0.97499



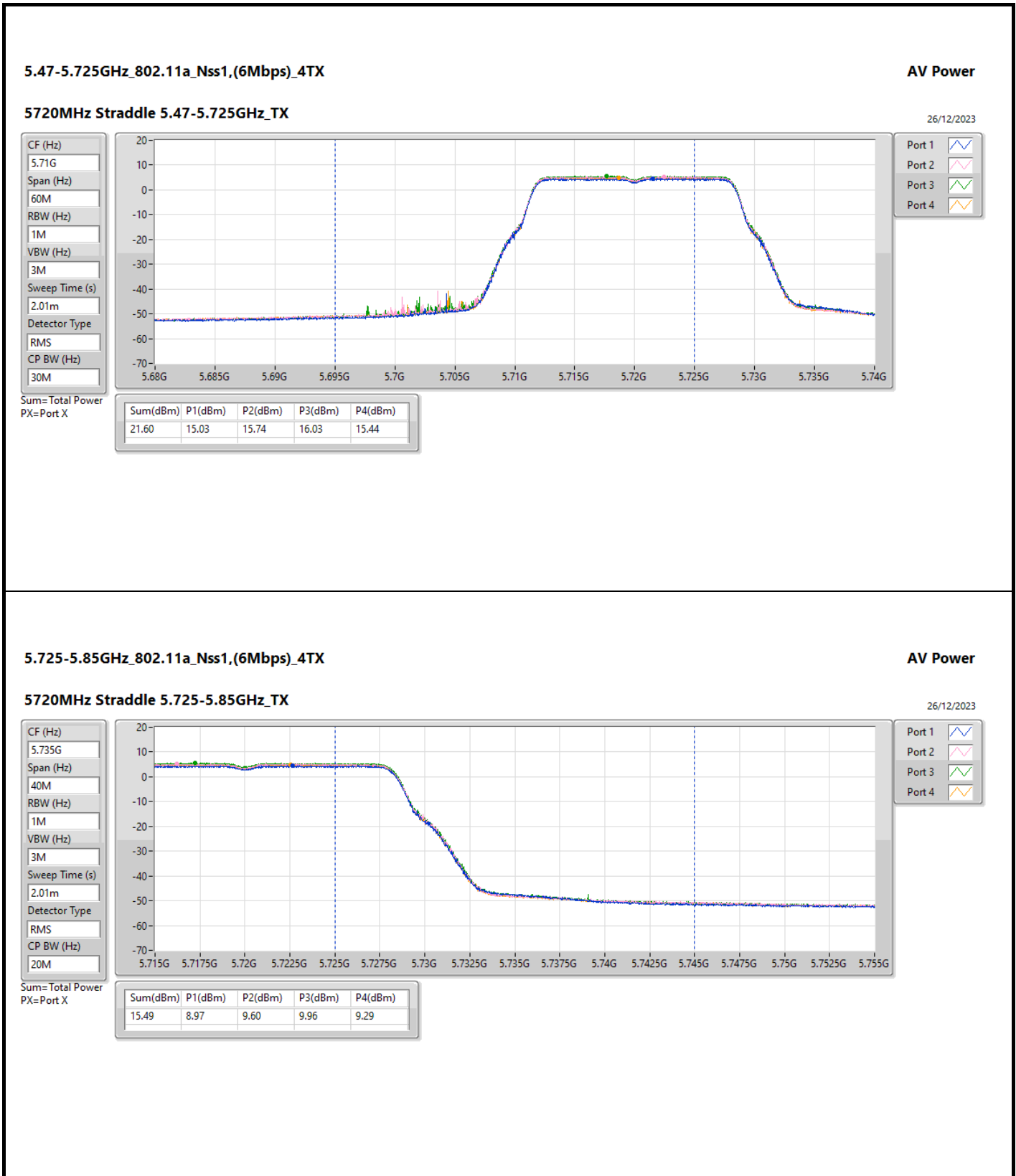
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.60	23.52	23.24	23.18	23.14	29.29	30.00
5200MHz	Pass	1.60	23.55	23.19	23.34	23.28	29.36	30.00
5240MHz	Pass	1.60	23.51	23.38	23.57	23.37	29.48	30.00
5260MHz	Pass	1.60	16.74	16.88	17.20	16.68	22.90	23.98
5300MHz	Pass	1.60	16.77	16.80	17.19	16.52	22.85	23.98
5320MHz	Pass	1.60	16.56	16.70	16.99	16.27	22.66	23.98
5500MHz	Pass	1.62	16.55	16.97	17.03	16.39	22.76	23.98
5580MHz	Pass	1.62	16.40	16.97	17.18	16.27	22.74	23.98
5700MHz	Pass	1.62	16.01	16.36	17.17	16.32	22.51	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	1.62	15.03	15.74	16.03	15.44	21.60	22.83
5720MHz Straddle 5.725-5.85GHz	Pass	1.21	8.97	9.60	9.96	9.29	15.49	30.00
5745MHz	Pass	1.21	23.85	23.84	23.76	23.80	29.83	30.00
5785MHz	Pass	1.21	23.61	24.02	23.82	23.88	29.86	30.00
5825MHz	Pass	1.21	23.74	23.91	23.79	23.76	29.82	30.00
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.38	22.75	22.53	22.57	22.45	28.60	28.62
5200MHz	Pass	7.38	22.70	22.29	22.57	22.20	28.47	28.62
5240MHz	Pass	7.38	22.65	22.34	22.57	22.36	28.50	28.62
5260MHz	Pass	7.38	16.36	16.29	16.76	16.14	22.41	22.60
5300MHz	Pass	7.38	16.45	16.34	16.81	16.04	22.44	22.60
5320MHz	Pass	7.38	16.43	16.44	16.91	16.27	22.54	22.60
5500MHz	Pass	7.40	16.29	16.77	16.97	15.87	22.52	22.58
5580MHz	Pass	7.40	16.01	16.74	17.25	15.81	22.51	22.58
5700MHz	Pass	7.40	16.18	16.25	17.13	16.38	22.52	22.58
5720MHz Straddle 5.47-5.725GHz	Pass	7.40	14.93	15.09	15.73	15.13	21.25	21.44
5720MHz Straddle 5.725-5.85GHz	Pass	6.99	9.88	10.15	10.70	10.29	16.29	29.01
5745MHz	Pass	6.99	22.76	22.68	22.82	22.94	28.82	29.01
5785MHz	Pass	6.99	22.87	22.72	22.86	22.89	28.86	29.01
5825MHz	Pass	6.99	22.60	22.89	22.94	22.93	28.86	29.01
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.38	19.55	19.77	19.92	20.14	25.87	28.62
5230MHz	Pass	7.38	22.55	22.41	22.35	22.73	28.53	28.62
5270MHz	Pass	7.38	16.41	16.45	16.88	16.49	22.58	22.60
5310MHz	Pass	7.38	16.56	16.41	16.76	16.49	22.58	22.60
5510MHz	Pass	7.40	16.16	16.54	17.08	16.26	22.55	22.58
5550MHz	Pass	7.40	15.91	16.49	16.92	16.15	22.40	22.58
5670MHz	Pass	7.40	16.14	16.29	17.07	16.50	22.54	22.58
5710MHz Straddle 5.47-5.725GHz	Pass	7.40	16.06	16.30	17.08	16.54	22.53	22.58
5710MHz Straddle 5.725-5.85GHz	Pass	6.99	6.69	6.69	7.55	7.09	13.04	29.01
5755MHz	Pass	6.99	22.22	22.85	23.07	22.80	28.77	29.01
5795MHz	Pass	6.99	22.39	22.94	23.03	22.94	28.85	29.01
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.38	21.05	21.14	21.07	20.71	27.02	28.62
5290MHz	Pass	7.38	16.71	16.62	16.67	16.15	22.56	22.60
5530MHz	Pass	7.40	16.17	16.50	16.82	16.42	22.50	22.58
5610MHz	Pass	7.40	15.83	16.47	16.94	16.35	22.44	22.58
5690MHz Straddle 5.47-5.725GHz	Pass	7.40	15.77	16.40	16.94	16.36	22.41	22.58
5690MHz Straddle 5.725-5.85GHz	Pass	6.99	2.52	3.24	3.71	2.99	9.16	29.01
5775MHz	Pass	6.99	22.48	22.85	23.29	23.00	28.94	29.01
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.38	16.38	16.41	16.91	16.07	22.47	28.62
5250MHz Straddle 5.25-5.35GHz	Pass	7.38	16.43	16.54	16.51	16.54	22.53	22.60
5570MHz	Pass	7.40	16.25	16.55	16.91	16.40	22.56	22.58
802.11be EHT20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-



Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5180MHz	Pass	4.37	21.85	22.39	22.27	22.33	28.24	30.00
5200MHz	Pass	4.37	24.10	23.84	23.88	23.76	29.92	30.00
5240MHz	Pass	4.37	23.67	24.01	23.96	23.71	29.86	30.00
5260MHz	Pass	4.37	17.42	18.01	18.14	17.71	23.85	23.98
5300MHz	Pass	4.37	17.41	17.89	18.31	17.64	23.85	23.98
5320MHz	Pass	4.37	17.41	18.05	18.28	17.82	23.92	23.98
5500MHz	Pass	4.39	17.22	17.82	18.20	17.66	23.76	23.98
5580MHz	Pass	4.39	17.28	18.07	18.26	17.66	23.85	23.98
5700MHz	Pass	4.39	17.27	17.89	18.20	17.87	23.84	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	4.39	16.35	16.72	17.12	16.63	22.73	22.86
5720MHz Straddle 5.725-5.85GHz	Pass	3.98	11.06	11.67	12.03	11.50	17.60	30.00
5745MHz	Pass	3.98	23.75	23.90	23.77	23.74	29.81	30.00
5785MHz	Pass	3.98	23.85	24.02	23.76	24.05	29.94	30.00
5825MHz	Pass	3.98	23.80	24.05	23.76	23.97	29.92	30.00
802.11be EHT40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.37	20.90	21.39	21.16	21.67	27.31	30.00
5230MHz	Pass	4.37	23.51	23.83	23.78	24.11	29.83	30.00
5270MHz	Pass	4.37	17.42	17.78	18.15	17.85	23.83	23.98
5310MHz	Pass	4.37	17.28	17.90	17.90	17.81	23.75	23.98
5510MHz	Pass	4.39	17.57	17.90	18.36	17.90	23.96	23.98
5550MHz	Pass	4.39	17.39	17.98	18.13	17.74	23.84	23.98
5670MHz	Pass	4.39	17.36	17.72	18.38	17.95	23.89	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	4.39	17.58	17.65	18.26	17.89	23.87	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.98	7.90	8.02	8.71	8.14	14.22	30.00
5755MHz	Pass	3.98	23.69	23.85	24.12	23.98	29.93	30.00
5795MHz	Pass	3.98	23.54	24.05	24.23	23.82	29.94	30.00
802.11be EHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.37	21.78	22.20	22.15	21.81	28.01	30.00
5290MHz	Pass	4.37	17.43	17.93	17.94	17.55	23.74	23.98
5530MHz	Pass	4.39	17.47	17.95	17.89	17.97	23.85	23.98
5610MHz	Pass	4.39	17.41	18.04	18.25	17.99	23.95	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	4.39	17.31	17.97	18.13	17.77	23.83	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.98	4.13	4.55	5.13	4.34	10.57	30.00
5775MHz	Pass	3.98	23.57	23.64	24.23	23.99	29.89	30.00
802.11be EHT160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.37	17.39	17.64	18.17	17.61	23.73	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.37	17.37	18.12	17.90	18.26	23.95	23.98
5570MHz	Pass	4.39	17.73	17.92	18.27	17.78	23.95	23.98

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



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

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

26/12/2023

CF (Hz)
5.735G

Span (Hz)
40M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
2.01m

Detector Type
RMS

CP BW (Hz)
20M



Port 1 

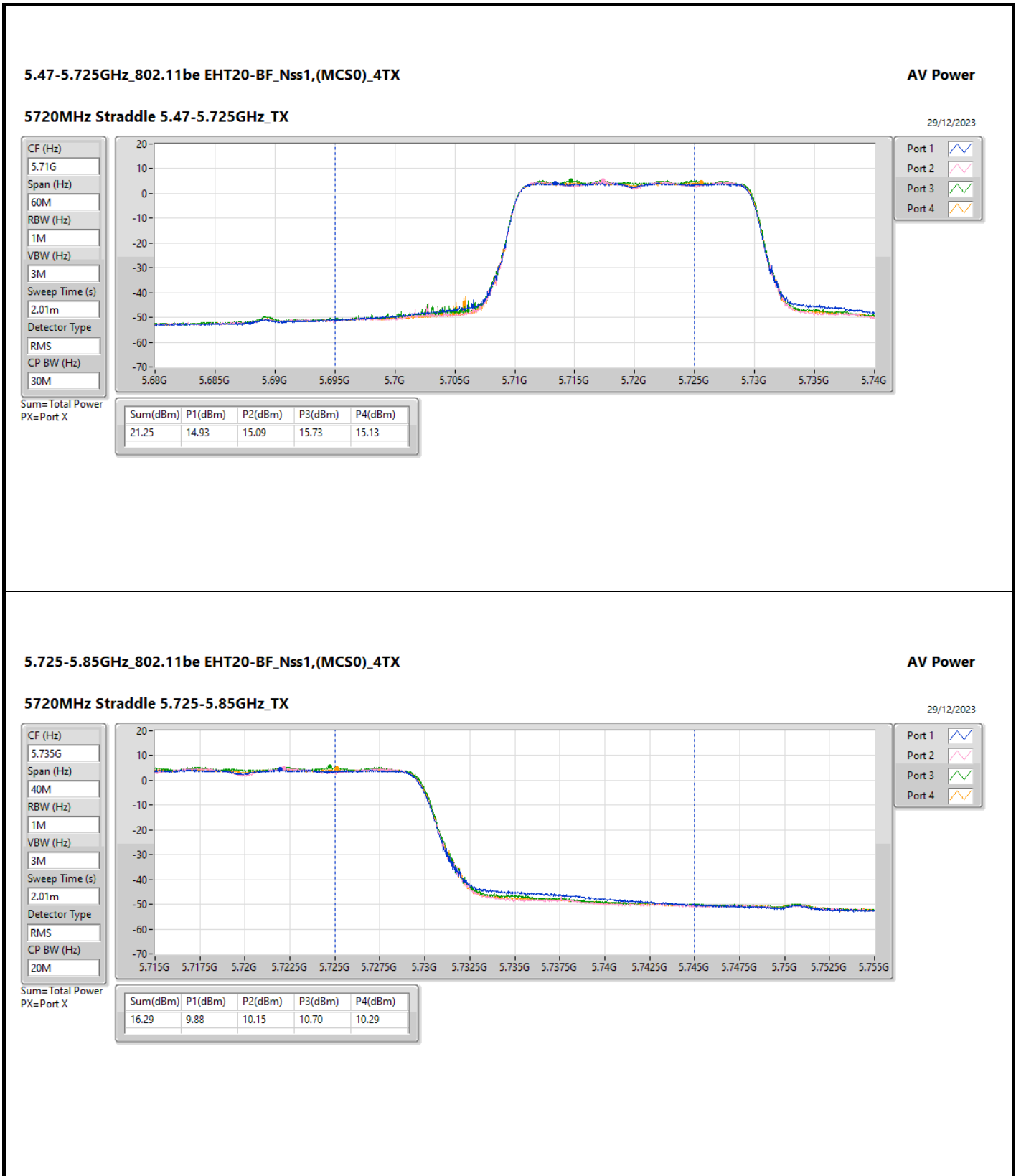
Port 2 

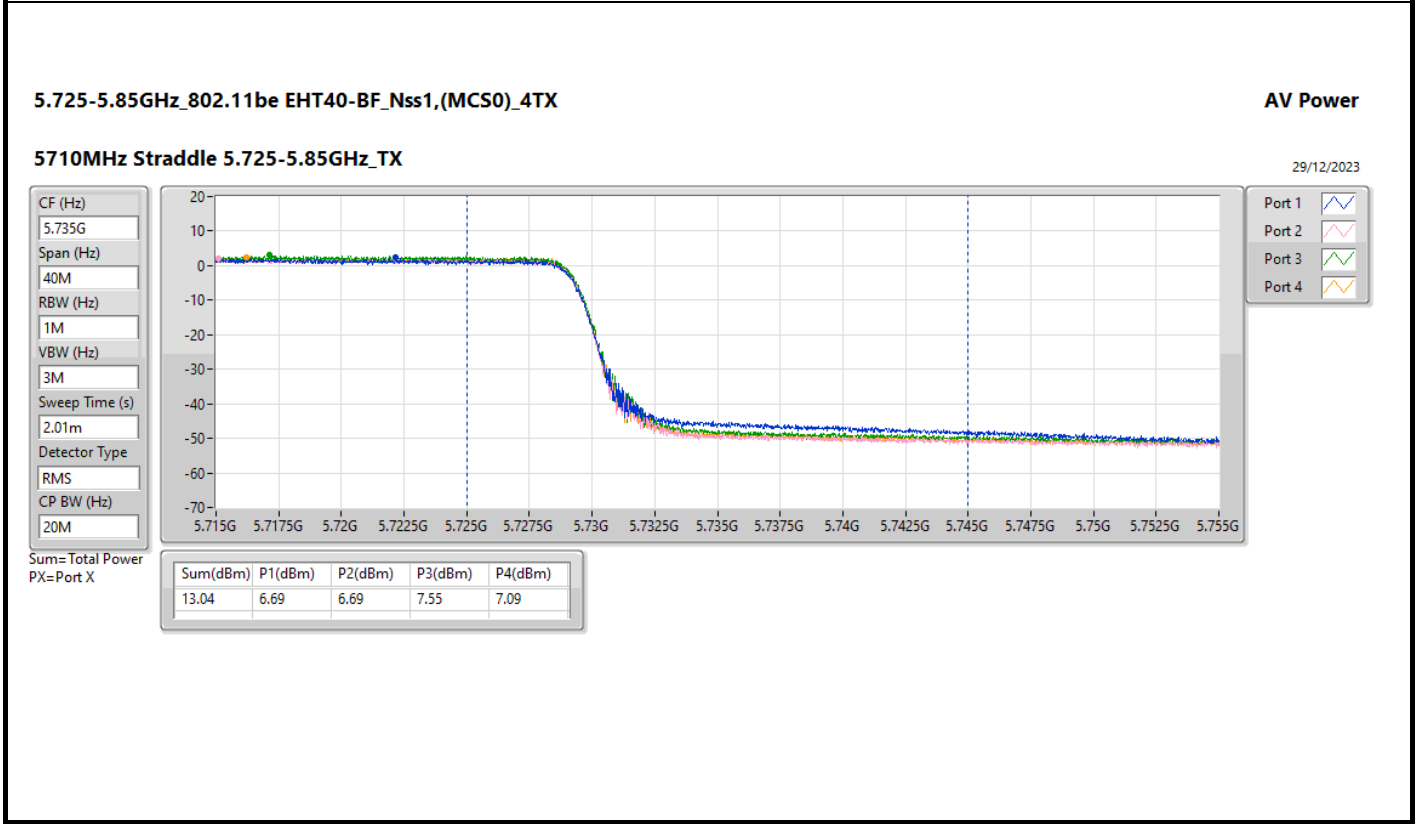
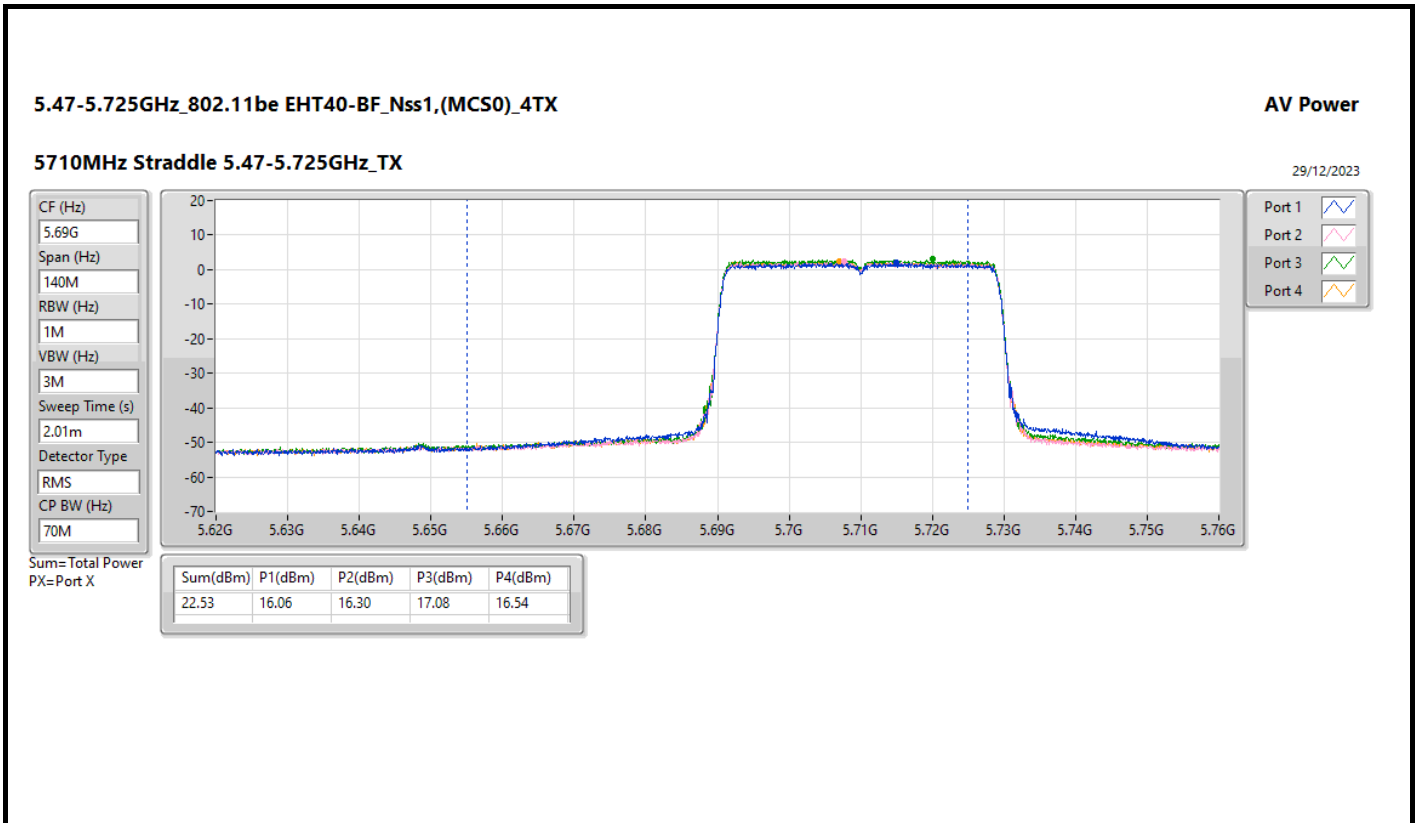
Port 3 

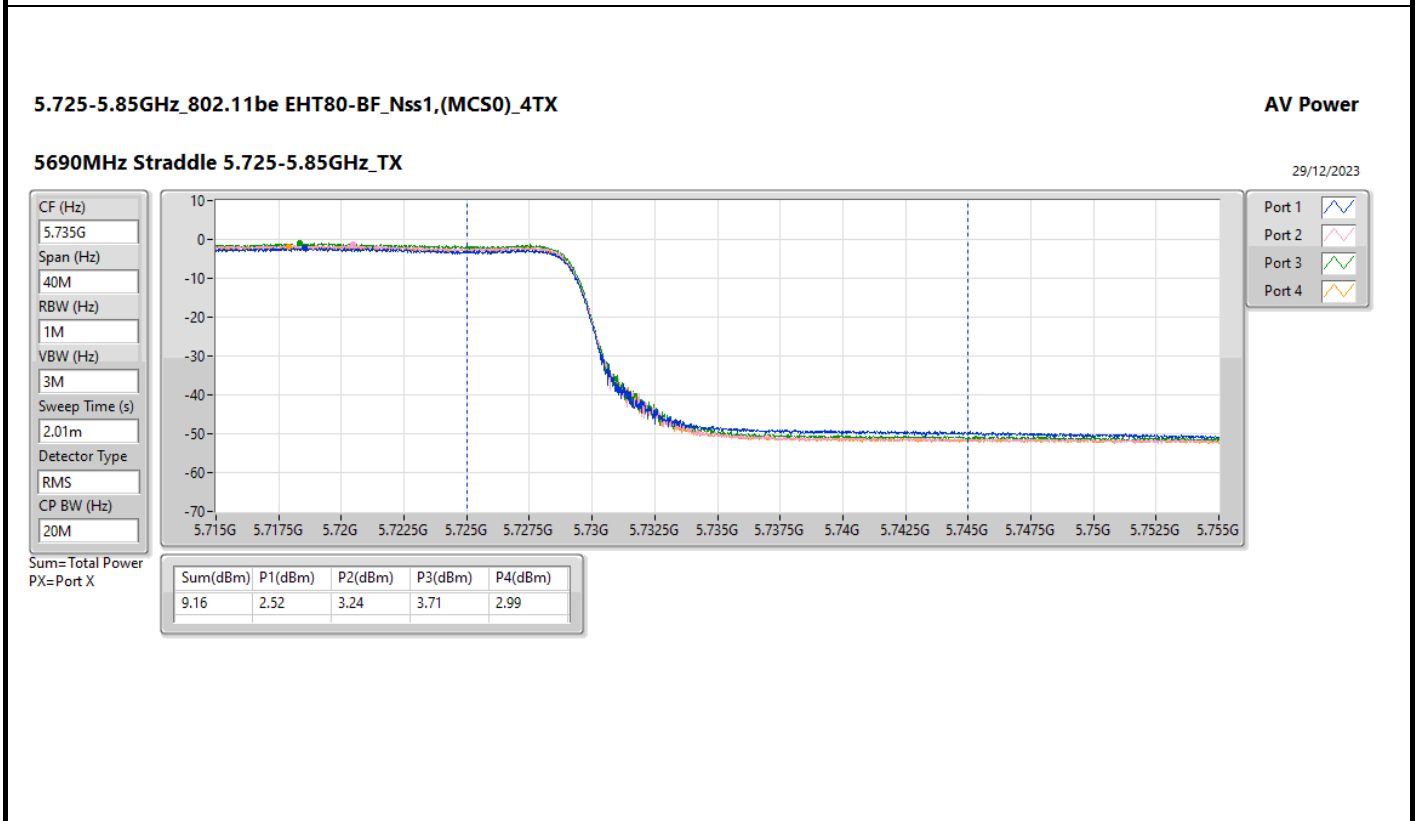
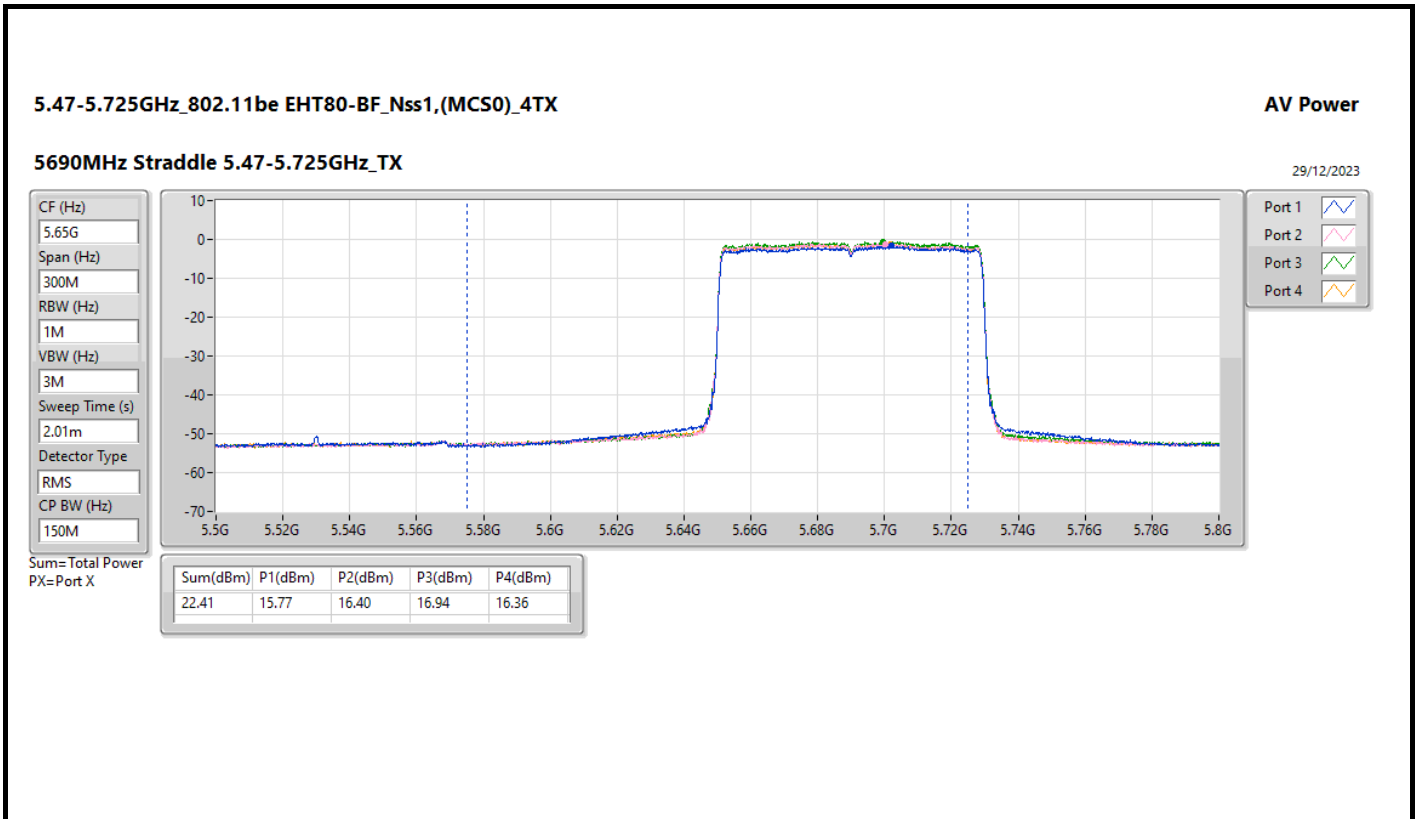
Port 4 

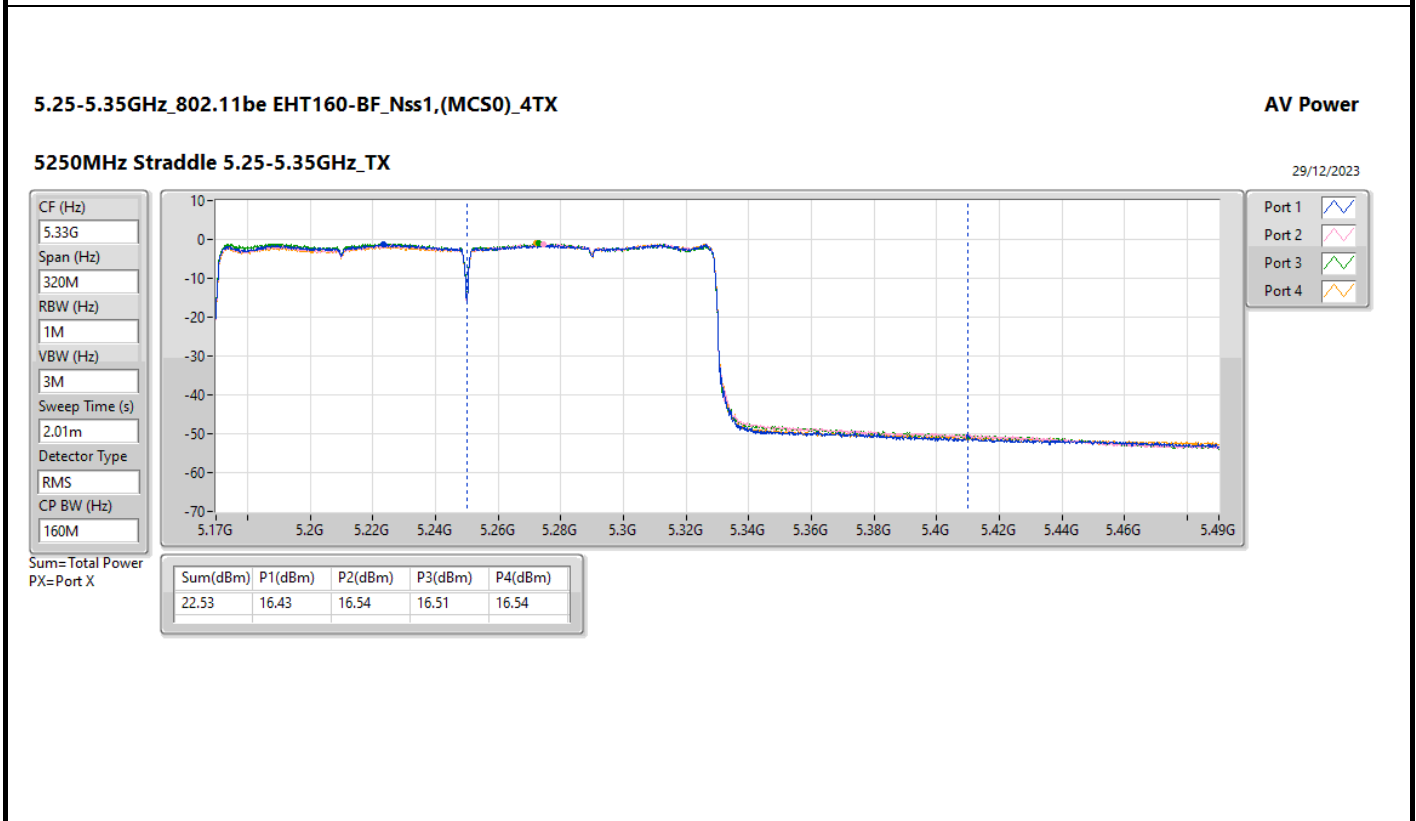
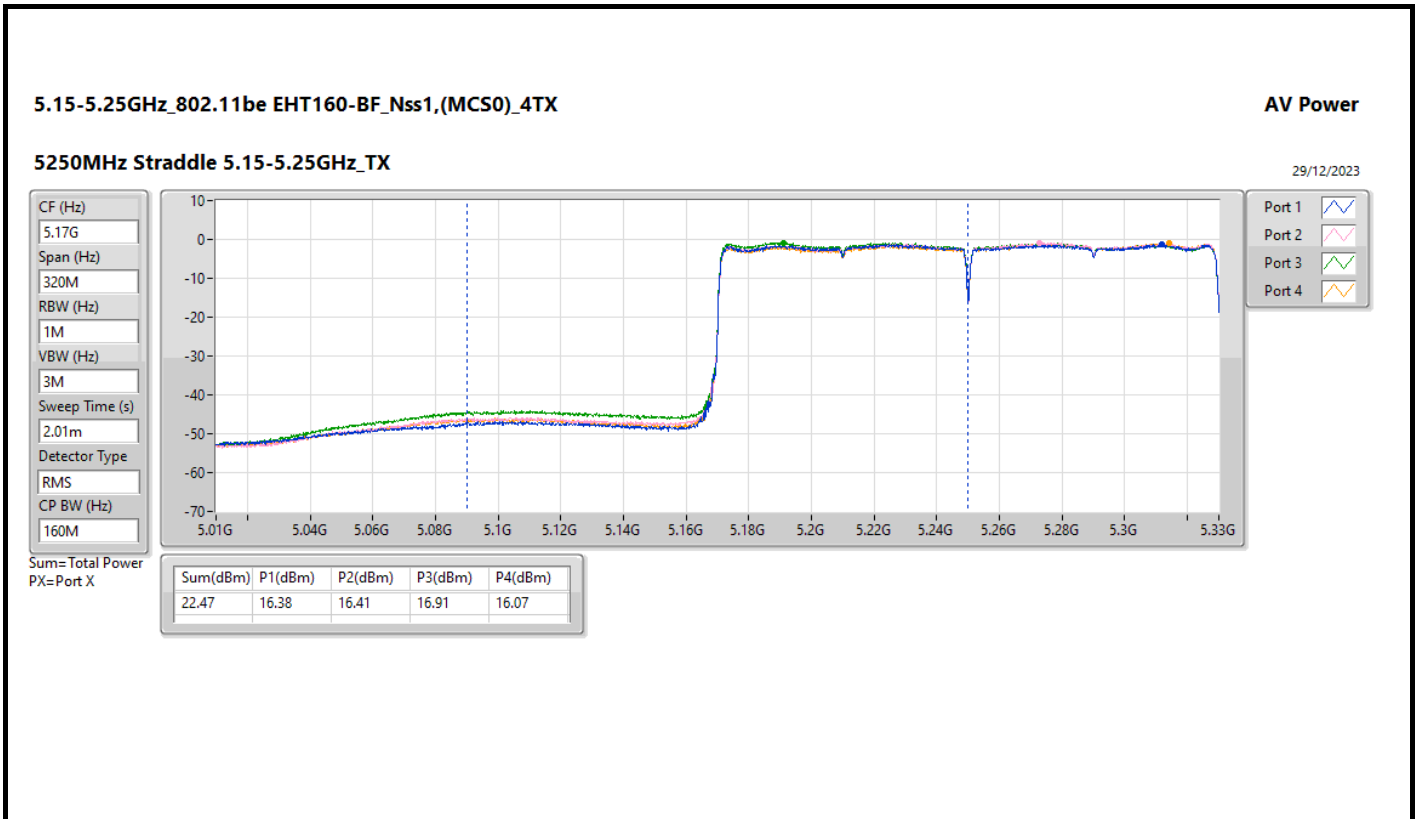
Sum=Total Power
PX=Port X

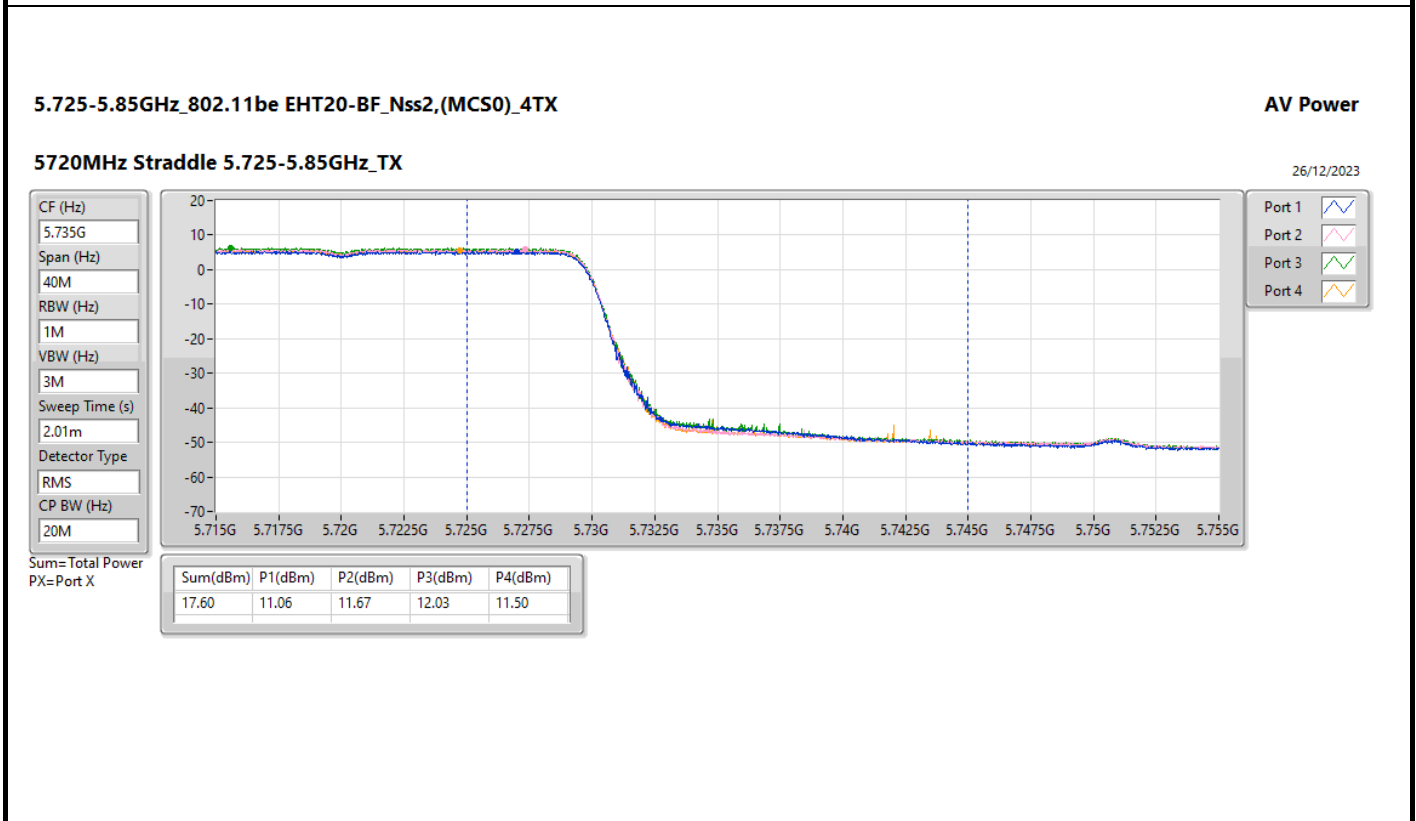
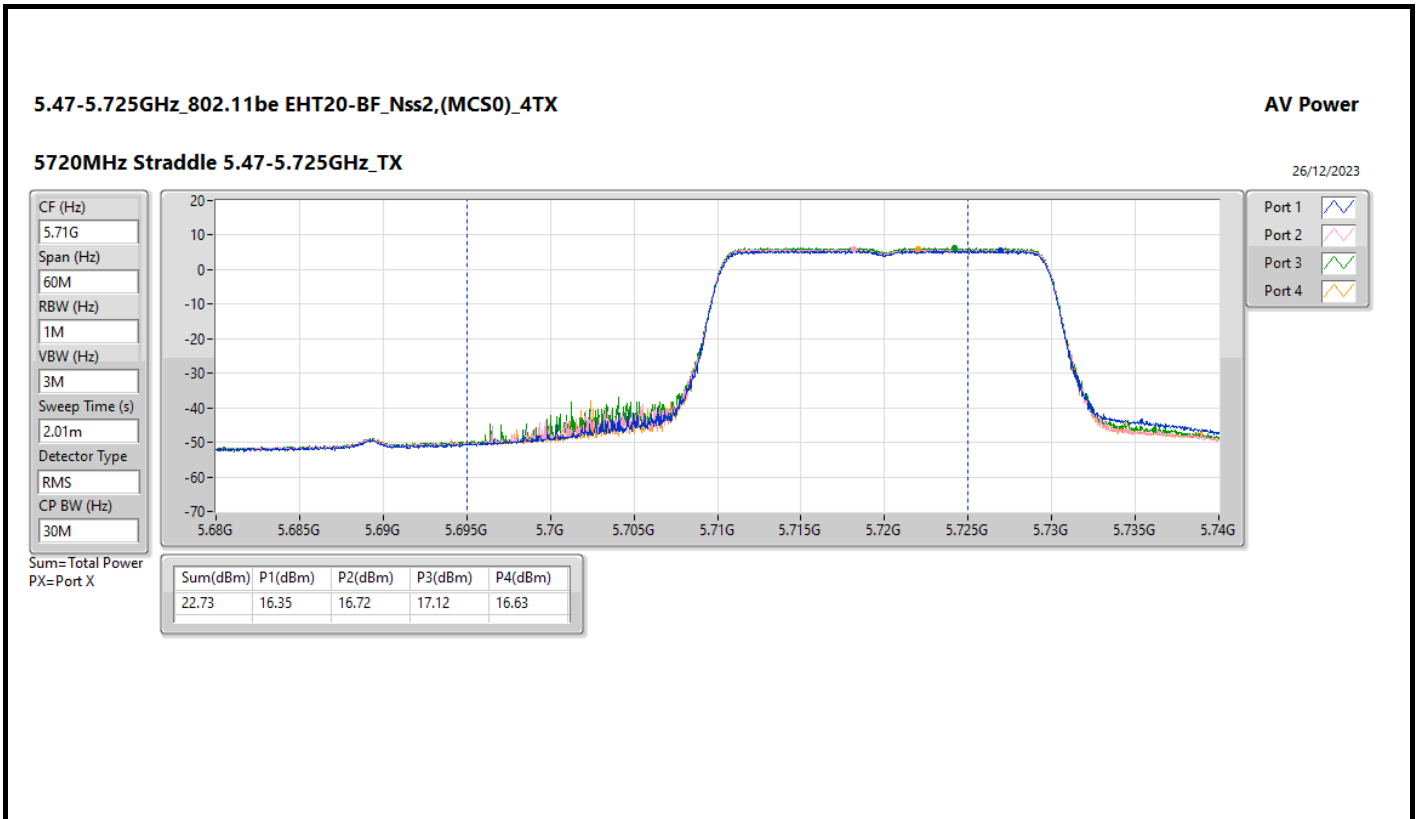
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
15.49	8.97	9.60	9.96	9.29

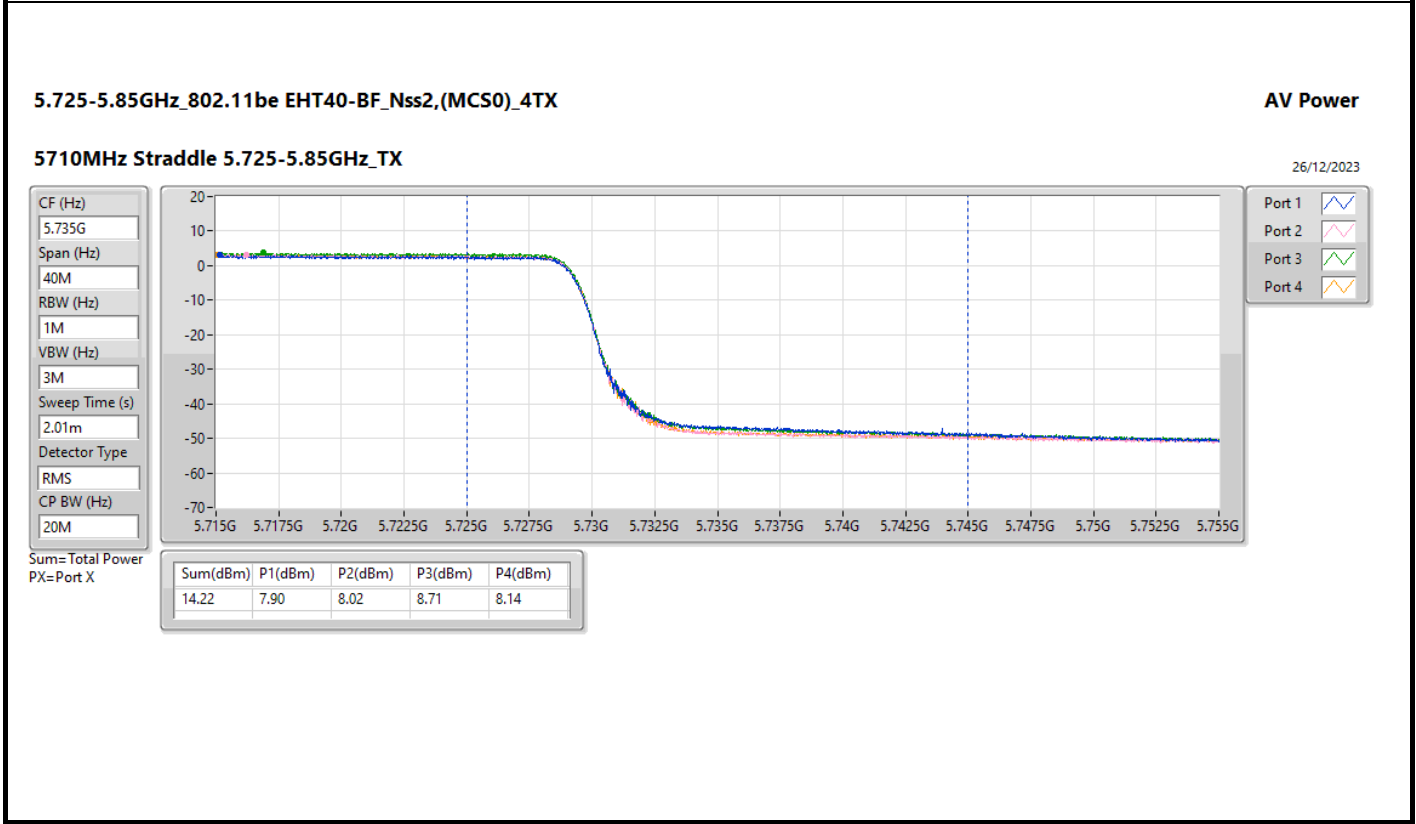
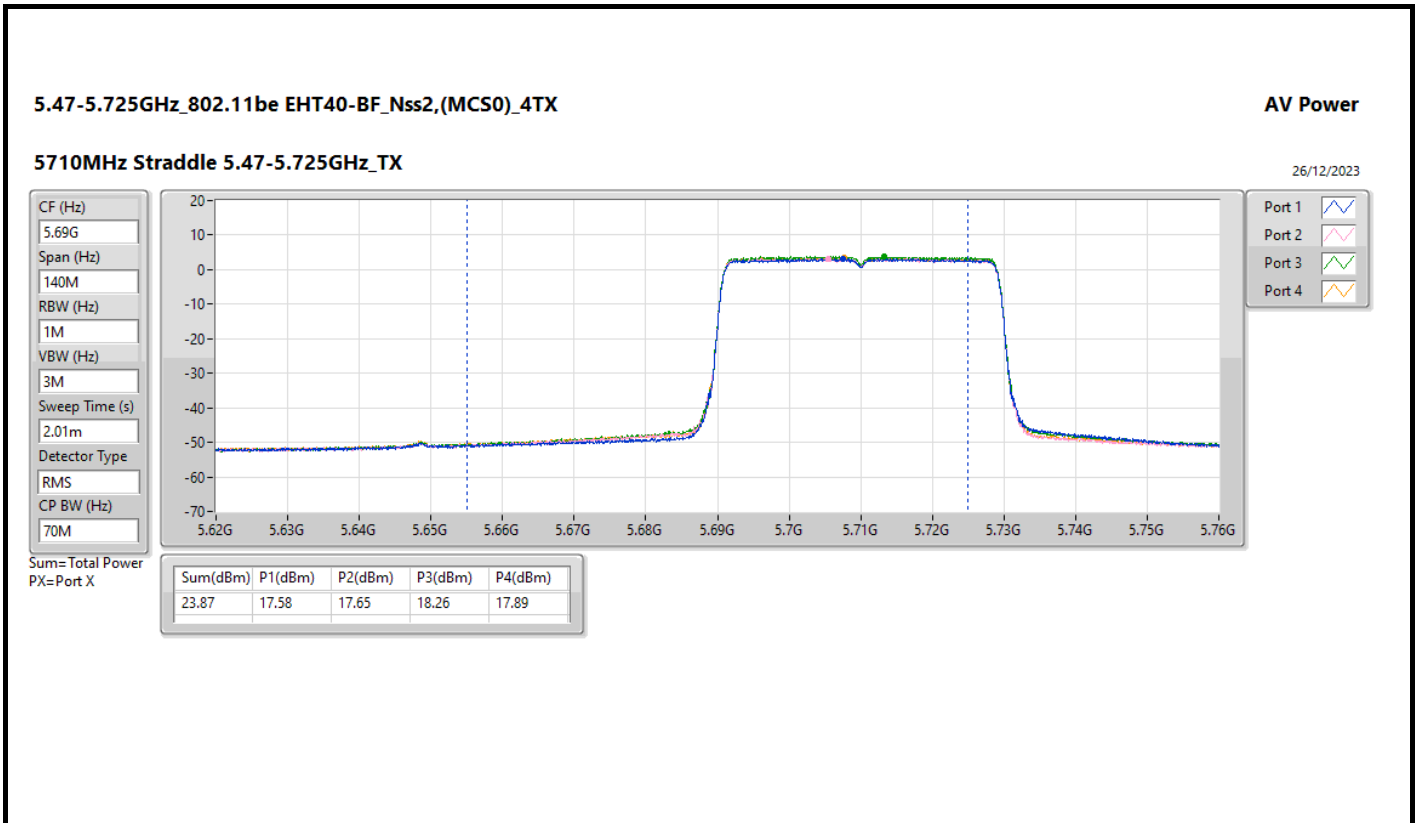


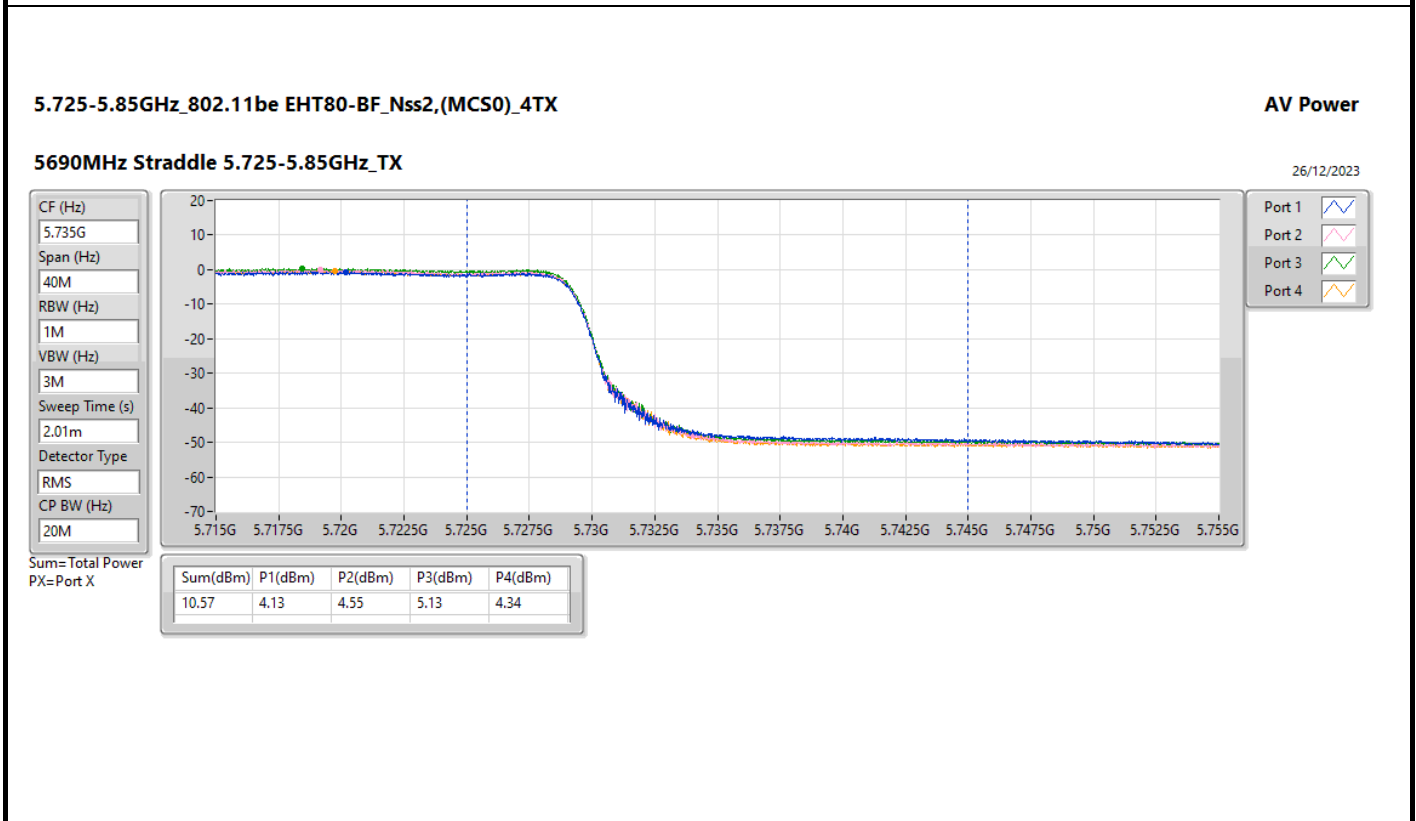
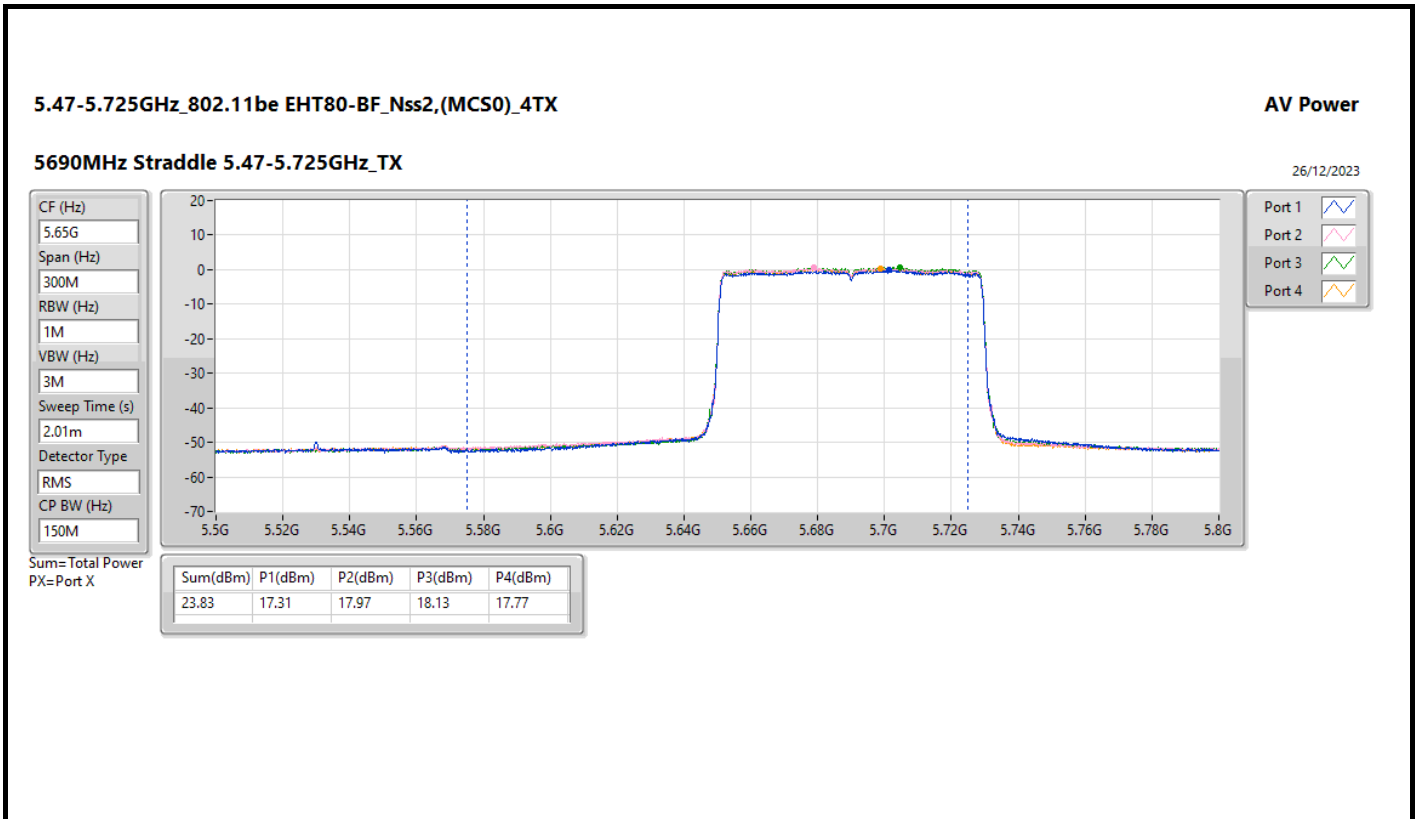


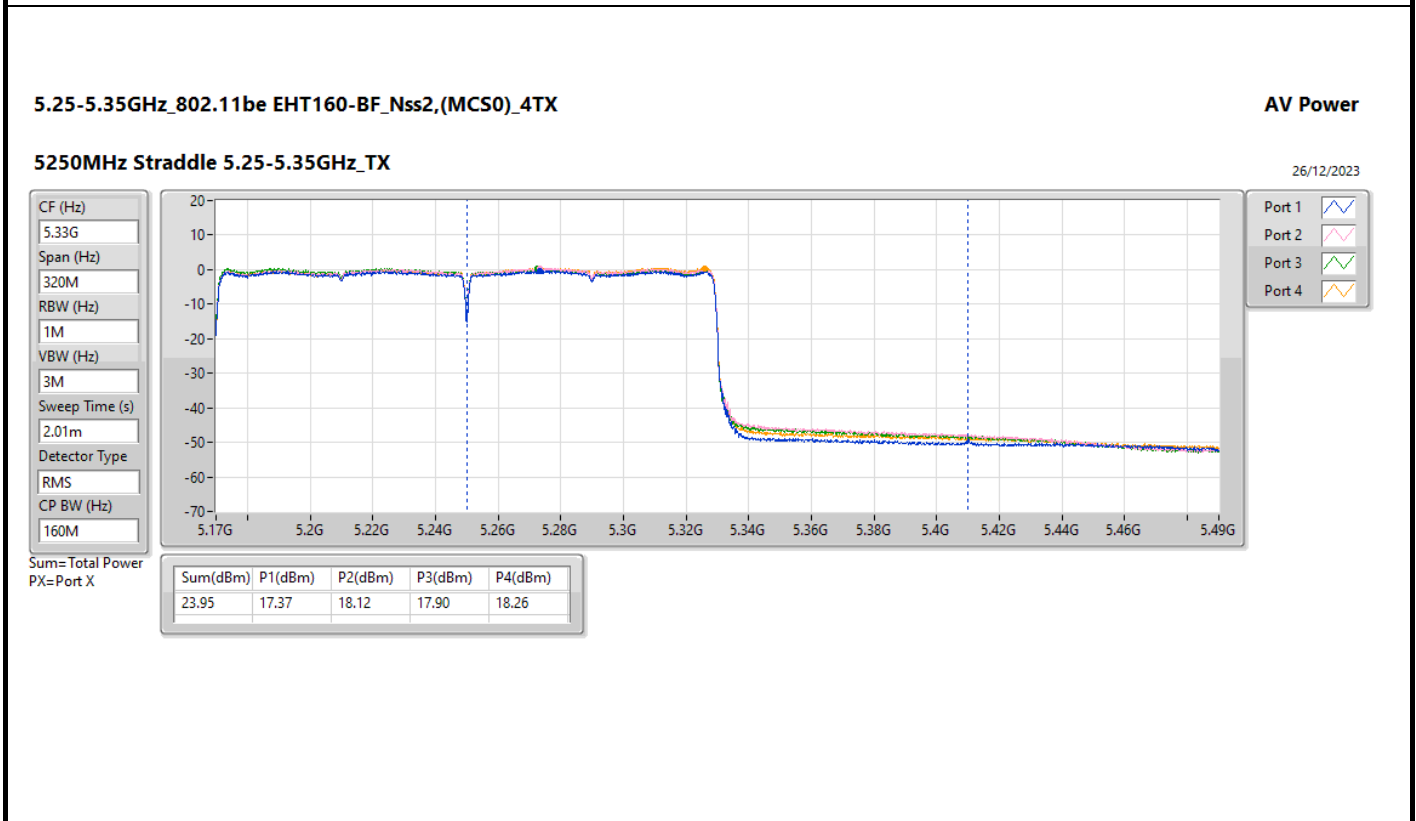
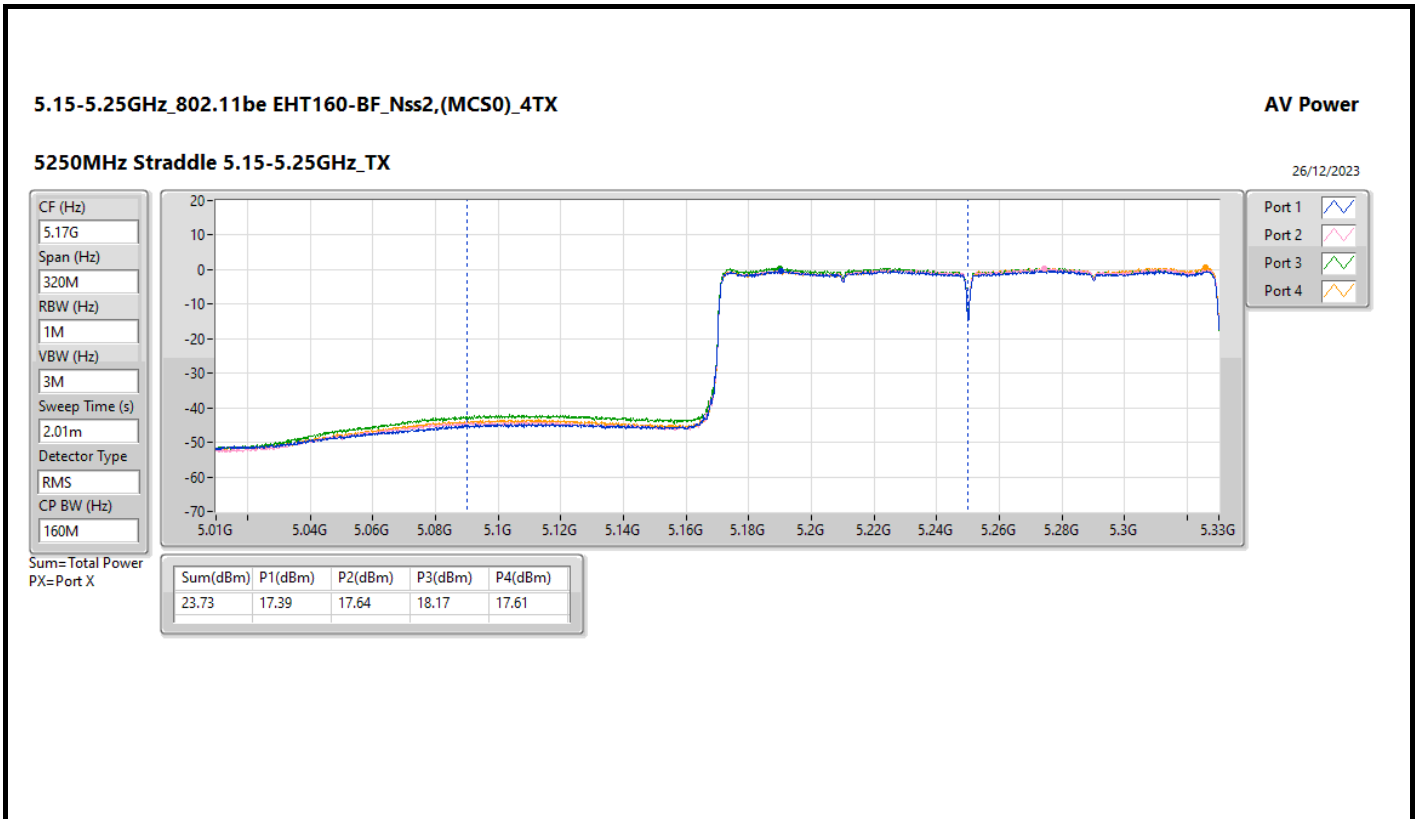












Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.60
802.11be EHT20-BF_Nss1,(MCS0)_4TX	14.60
802.11be EHT20-BF_Nss2,(MCS0)_4TX	15.80
802.11be EHT40-BF_Nss1,(MCS0)_4TX	11.66
802.11be EHT40-BF_Nss2,(MCS0)_4TX	13.11
802.11be EHT80-BF_Nss1,(MCS0)_4TX	7.65
802.11be EHT80-BF_Nss2,(MCS0)_4TX	8.64
802.11be EHT160-BF_Nss1,(MCS0)_4TX	2.87
802.11be EHT160-BF_Nss2,(MCS0)_4TX	4.22
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.55
802.11be EHT20-BF_Nss1,(MCS0)_4TX	8.57
802.11be EHT20-BF_Nss2,(MCS0)_4TX	10.12
802.11be EHT40-BF_Nss1,(MCS0)_4TX	5.80
802.11be EHT40-BF_Nss2,(MCS0)_4TX	7.17
802.11be EHT80-BF_Nss1,(MCS0)_4TX	3.03
802.11be EHT80-BF_Nss2,(MCS0)_4TX	4.36
802.11be EHT160-BF_Nss1,(MCS0)_4TX	3.05
802.11be EHT160-BF_Nss2,(MCS0)_4TX	4.45
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.53
802.11be EHT20-BF_Nss1,(MCS0)_4TX	8.81
802.11be EHT20-BF_Nss2,(MCS0)_4TX	10.05
802.11be EHT40-BF_Nss1,(MCS0)_4TX	6.34
802.11be EHT40-BF_Nss2,(MCS0)_4TX	7.53
802.11be EHT80-BF_Nss1,(MCS0)_4TX	3.06
802.11be EHT80-BF_Nss2,(MCS0)_4TX	4.52
802.11be EHT160-BF_Nss1,(MCS0)_4TX	0.03
802.11be EHT160-BF_Nss2,(MCS0)_4TX	1.61
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	14.62
802.11be EHT20-BF_Nss1,(MCS0)_4TX	13.76
802.11be EHT20-BF_Nss2,(MCS0)_4TX	14.40
802.11be EHT40-BF_Nss1,(MCS0)_4TX	10.55
802.11be EHT40-BF_Nss2,(MCS0)_4TX	11.64
802.11be EHT80-BF_Nss1,(MCS0)_4TX	8.04
802.11be EHT80-BF_Nss2,(MCS0)_4TX	8.95

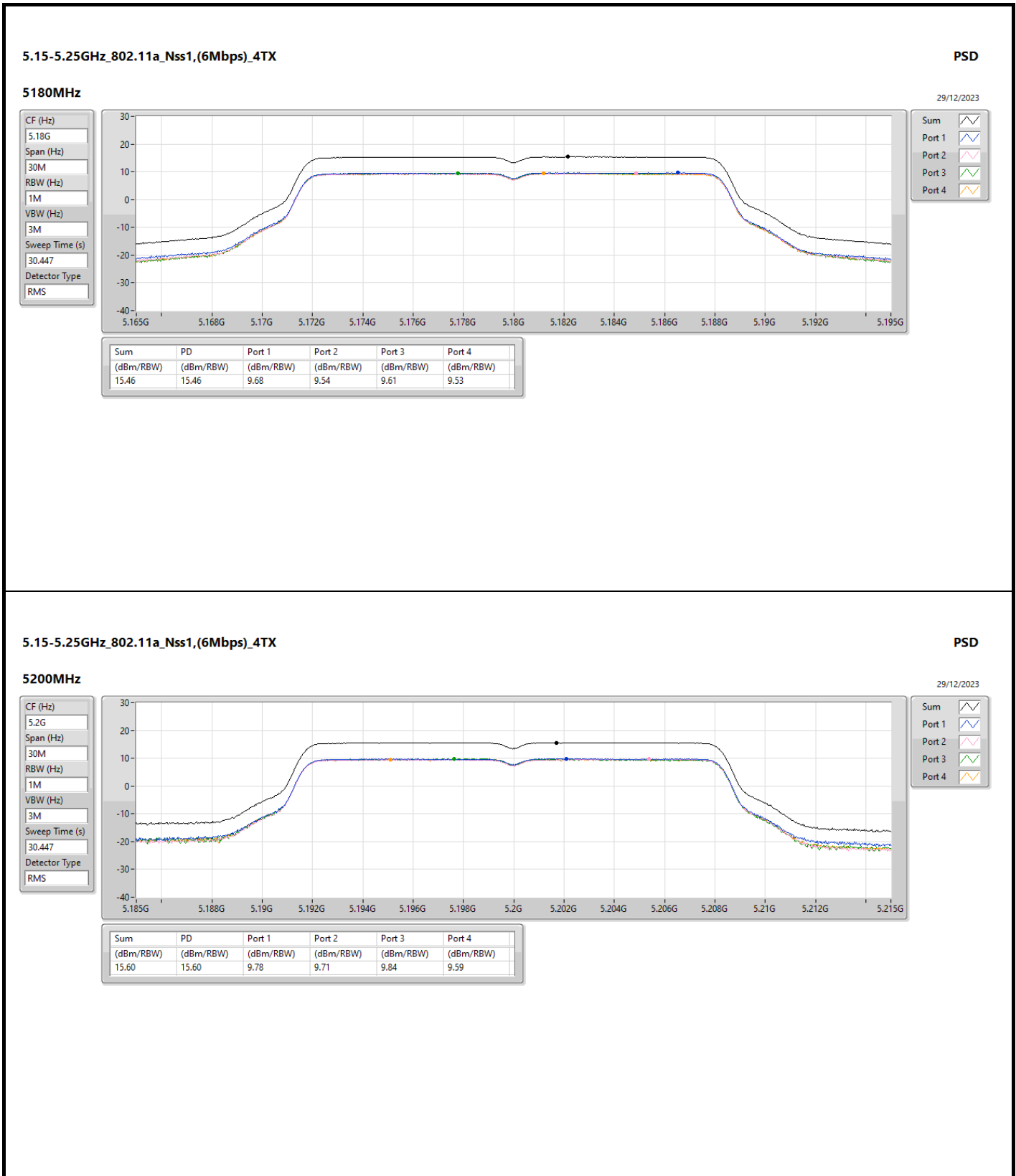
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.38	9.68	9.54	9.61	9.53	15.46	15.62
5200MHz	Pass	7.38	9.78	9.71	9.84	9.59	15.60	15.62
5240MHz	Pass	7.38	9.84	9.64	9.78	9.59	15.53	15.62
5260MHz	Pass	7.38	3.36	3.71	3.97	3.29	9.46	9.62
5300MHz	Pass	7.38	3.48	3.76	3.99	3.21	9.55	9.62
5320MHz	Pass	7.38	3.38	3.78	3.95	3.29	9.53	9.62
5500MHz	Pass	7.40	3.76	4.44	4.26	3.23	9.47	9.60
5580MHz	Pass	7.40	3.25	4.00	4.46	2.72	9.52	9.60
5700MHz	Pass	7.40	3.27	3.98	4.53	3.27	9.53	9.60
5720MHz Straddle 5.47-5.725GHz	Pass	7.40	2.93	3.58	3.79	3.28	9.31	9.60
5720MHz Straddle 5.725-5.85GHz	Pass	6.99	1.21	1.86	2.23	1.59	7.71	29.01
5745MHz	Pass	6.99	8.55	8.74	8.64	8.86	14.62	29.01
5785MHz	Pass	6.99	8.40	8.56	8.56	8.49	14.42	29.01
5825MHz	Pass	6.99	8.40	8.72	8.58	8.47	14.48	29.01
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.38	8.70	8.65	8.79	8.54	14.60	15.62
5200MHz	Pass	7.38	8.50	8.33	8.56	8.10	14.30	15.62
5240MHz	Pass	7.38	8.59	8.56	8.54	8.20	14.38	15.62
5260MHz	Pass	7.38	2.11	2.66	3.04	2.33	8.52	9.62
5300MHz	Pass	7.38	2.15	2.61	3.06	2.20	8.46	9.62
5320MHz	Pass	7.38	2.67	2.68	2.87	2.24	8.57	9.62
5500MHz	Pass	7.40	2.07	2.72	3.03	2.14	8.42	9.60
5580MHz	Pass	7.40	2.03	2.79	3.20	2.25	8.50	9.60
5700MHz	Pass	7.40	2.30	3.04	3.61	2.60	8.81	9.60
5720MHz Straddle 5.47-5.725GHz	Pass	7.40	2.32	2.81	3.45	2.42	8.67	9.60
5720MHz Straddle 5.725-5.85GHz	Pass	6.99	0.86	1.33	2.07	1.02	7.23	29.01
5745MHz	Pass	6.99	7.75	7.83	8.19	7.73	13.76	29.01
5785MHz	Pass	6.99	7.05	7.19	7.50	7.06	13.08	29.01
5825MHz	Pass	6.99	7.15	7.58	7.44	7.39	13.35	29.01
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.38	2.99	3.48	3.52	3.71	9.35	15.62
5230MHz	Pass	7.38	5.71	5.55	5.51	6.07	11.66	15.62
5270MHz	Pass	7.38	-0.35	-0.28	0.02	-0.37	5.72	9.62
5310MHz	Pass	7.38	-0.21	-0.19	0.04	-0.25	5.80	9.62
5510MHz	Pass	7.40	-0.63	0.09	0.28	-0.52	5.72	9.60
5550MHz	Pass	7.40	-0.79	0.04	0.33	-0.73	5.63	9.60
5670MHz	Pass	7.40	-0.69	-0.34	0.56	-0.13	5.80	9.60
5710MHz Straddle 5.47-5.725GHz	Pass	7.40	-0.01	0.15	0.85	0.46	6.34	9.60
5710MHz Straddle 5.725-5.85GHz	Pass	6.99	-1.88	-1.76	-0.92	-1.34	4.55	29.01
5755MHz	Pass	6.99	3.97	4.84	5.02	4.56	10.55	29.01
5795MHz	Pass	6.99	4.20	4.74	4.81	4.61	10.55	29.01
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.38	1.74	1.88	1.87	1.49	7.65	15.62
5290MHz	Pass	7.38	-2.83	-2.88	-2.66	-3.34	3.03	9.62
5530MHz	Pass	7.40	-3.44	-2.87	-2.62	-3.13	2.94	9.60
5610MHz	Pass	7.40	-3.57	-2.75	-2.32	-3.08	2.92	9.60
5690MHz Straddle 5.47-5.725GHz	Pass	7.40	-3.52	-2.79	-2.30	-3.00	3.06	9.60
5690MHz Straddle 5.725-5.85GHz	Pass	6.99	-5.90	-4.98	-4.49	-5.37	0.82	29.01
5775MHz	Pass	6.99	1.46	2.09	2.51	2.25	8.04	29.01
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.38	-3.13	-3.12	-2.83	-3.36	2.87	15.62
5250MHz Straddle 5.25-5.35GHz	Pass	7.38	-3.15	-2.76	-2.91	-2.84	3.05	9.62
5570MHz	Pass	7.40	-6.36	-5.47	-5.53	-6.15	0.03	9.60
802.11be EHT20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
5180MHz	Pass	4.37	8.38	8.63	8.84	8.73	14.58	17.00
5200MHz	Pass	4.37	10.10	9.68	9.82	9.72	15.79	17.00
5240MHz	Pass	4.37	9.73	9.96	10.00	9.81	15.80	17.00
5260MHz	Pass	4.37	3.46	4.25	4.41	3.83	9.95	11.00
5300MHz	Pass	4.37	3.56	4.12	4.57	3.76	9.98	11.00
5320MHz	Pass	4.37	3.81	4.15	4.60	4.11	10.12	11.00
5500MHz	Pass	4.39	3.63	4.13	4.40	3.84	9.96	11.00
5580MHz	Pass	4.39	3.47	4.25	4.64	3.95	10.05	11.00
5700MHz	Pass	4.39	3.58	4.27	4.36	4.13	10.05	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.39	3.64	4.20	4.40	3.88	10.00	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.98	1.94	2.53	2.82	2.37	8.39	30.00
5745MHz	Pass	3.98	8.23	8.65	8.54	8.52	14.40	30.00
5785MHz	Pass	3.98	8.35	8.52	8.24	8.47	14.33	30.00
5825MHz	Pass	3.98	8.38	8.50	8.33	8.45	14.37	30.00
802.11be EHT40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.37	4.38	4.85	4.84	5.29	10.80	17.00
5230MHz	Pass	4.37	6.85	7.33	7.10	7.43	13.11	17.00
5270MHz	Pass	4.37	0.78	1.34	1.52	1.22	7.17	11.00
5310MHz	Pass	4.37	0.85	1.17	1.34	1.15	7.09	11.00
5510MHz	Pass	4.39	1.00	1.42	1.73	1.19	7.28	11.00
5550MHz	Pass	4.39	0.86	1.54	1.60	1.13	7.26	11.00
5670MHz	Pass	4.39	0.93	1.11	1.72	1.32	7.21	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.39	1.27	1.45	1.98	1.58	7.53	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.98	-0.66	-0.39	0.20	-0.34	5.67	30.00
5755MHz	Pass	3.98	5.35	5.73	6.03	5.68	11.64	30.00
5795MHz	Pass	3.98	5.28	5.66	5.88	5.72	11.58	30.00
802.11be EHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.37	2.58	2.93	2.81	2.52	8.64	17.00
5290MHz	Pass	4.37	-1.81	-1.49	-1.26	-1.90	4.36	11.00
5530MHz	Pass	4.39	-2.02	-1.54	-1.42	-1.49	4.33	11.00
5610MHz	Pass	4.39	-1.91	-1.33	-0.98	-1.38	4.52	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.39	-2.05	-1.47	-0.99	-1.49	4.51	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.98	-4.24	-3.94	-3.29	-4.06	2.11	30.00
5775MHz	Pass	3.98	2.93	2.92	3.18	2.93	8.95	30.00
802.11be EHT160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.37	-2.15	-1.68	-1.40	-1.84	4.22	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.37	-2.13	-1.35	-1.48	-1.15	4.45	11.00
5570MHz	Pass	4.39	-4.60	-4.13	-4.22	-4.36	1.61	11.00

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



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

PSD

5200MHz

29/12/2023

CF (Hz)

5.2G

Span (Hz)

30M

RBW (Hz)

1M

VBW (Hz)

3M

Sweep Time (s)

30.447

Detector Type

RMS



Sum

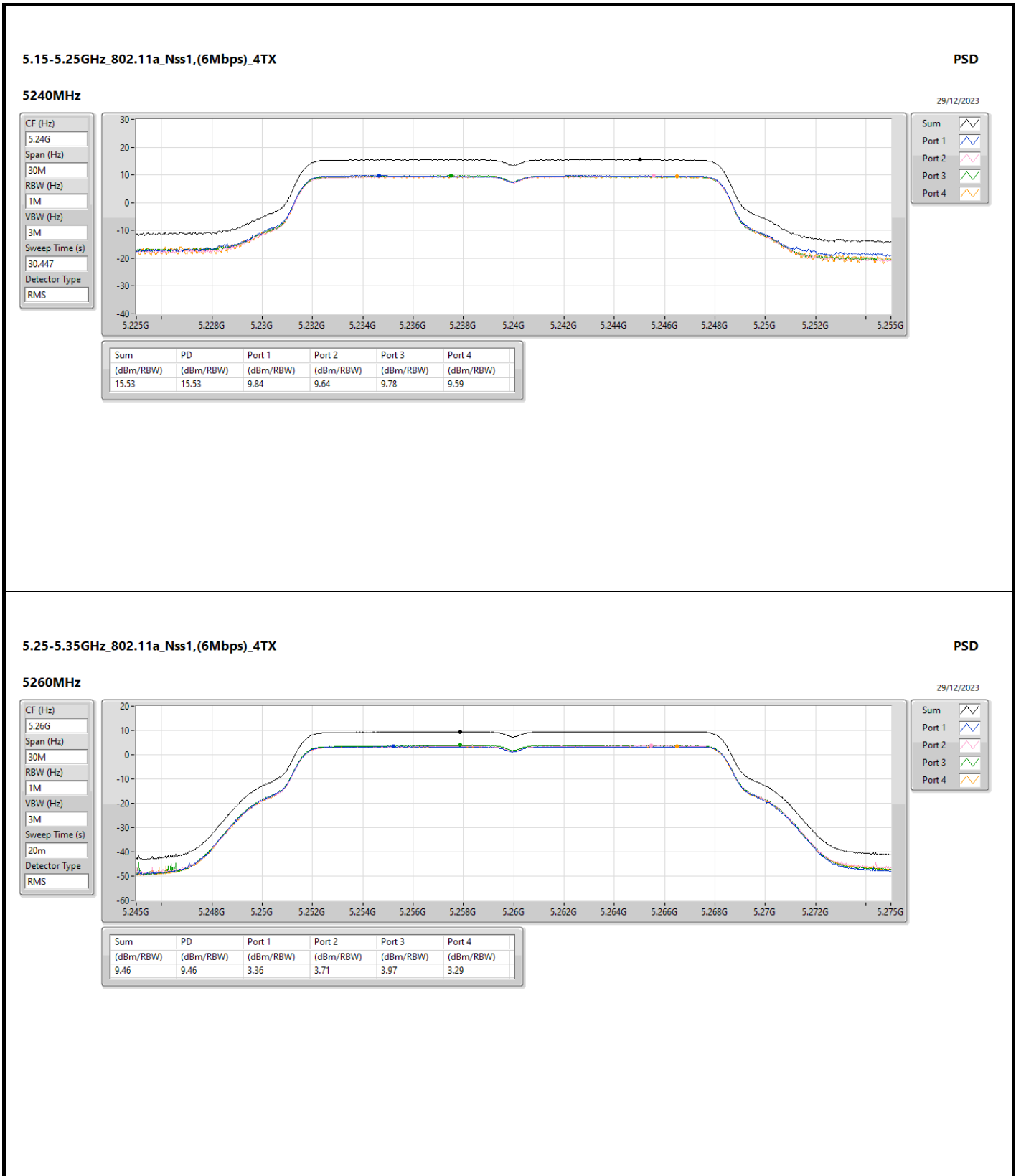
Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.60	15.60	9.78	9.71	9.84	9.59



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

PSD

5260MHz 29/12/2023

CF (Hz)
5.26G

Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



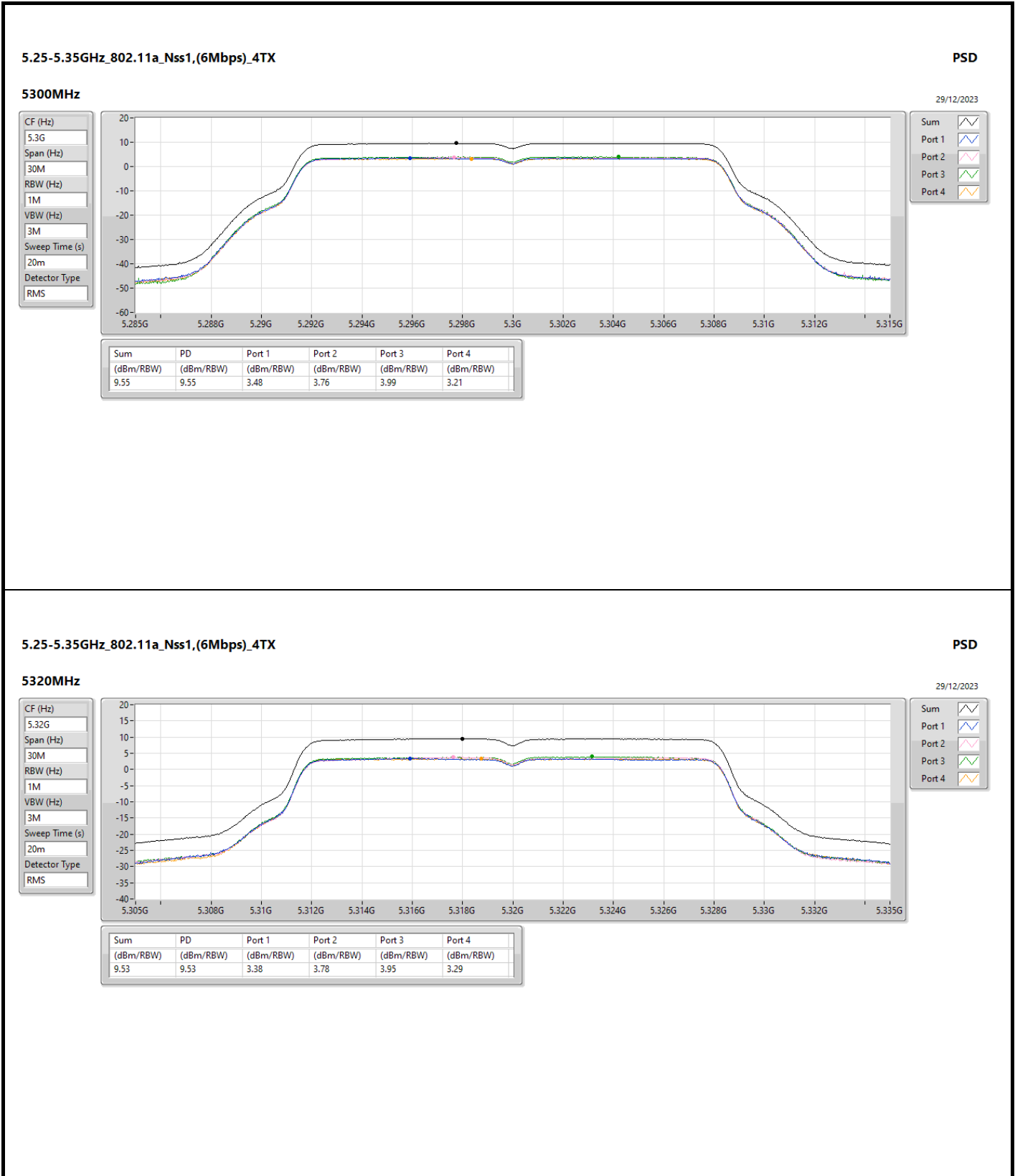
Sum

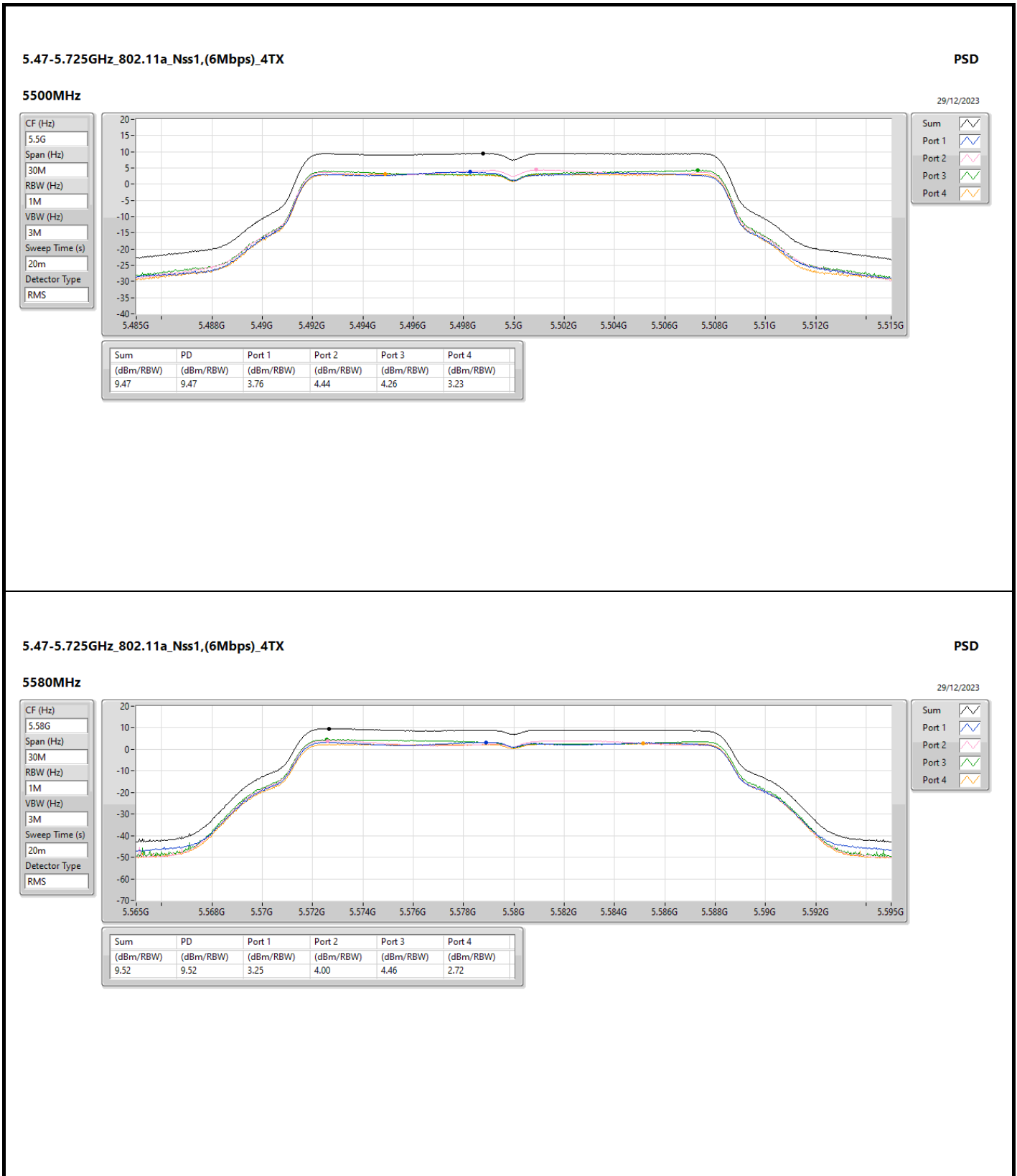
Port 1

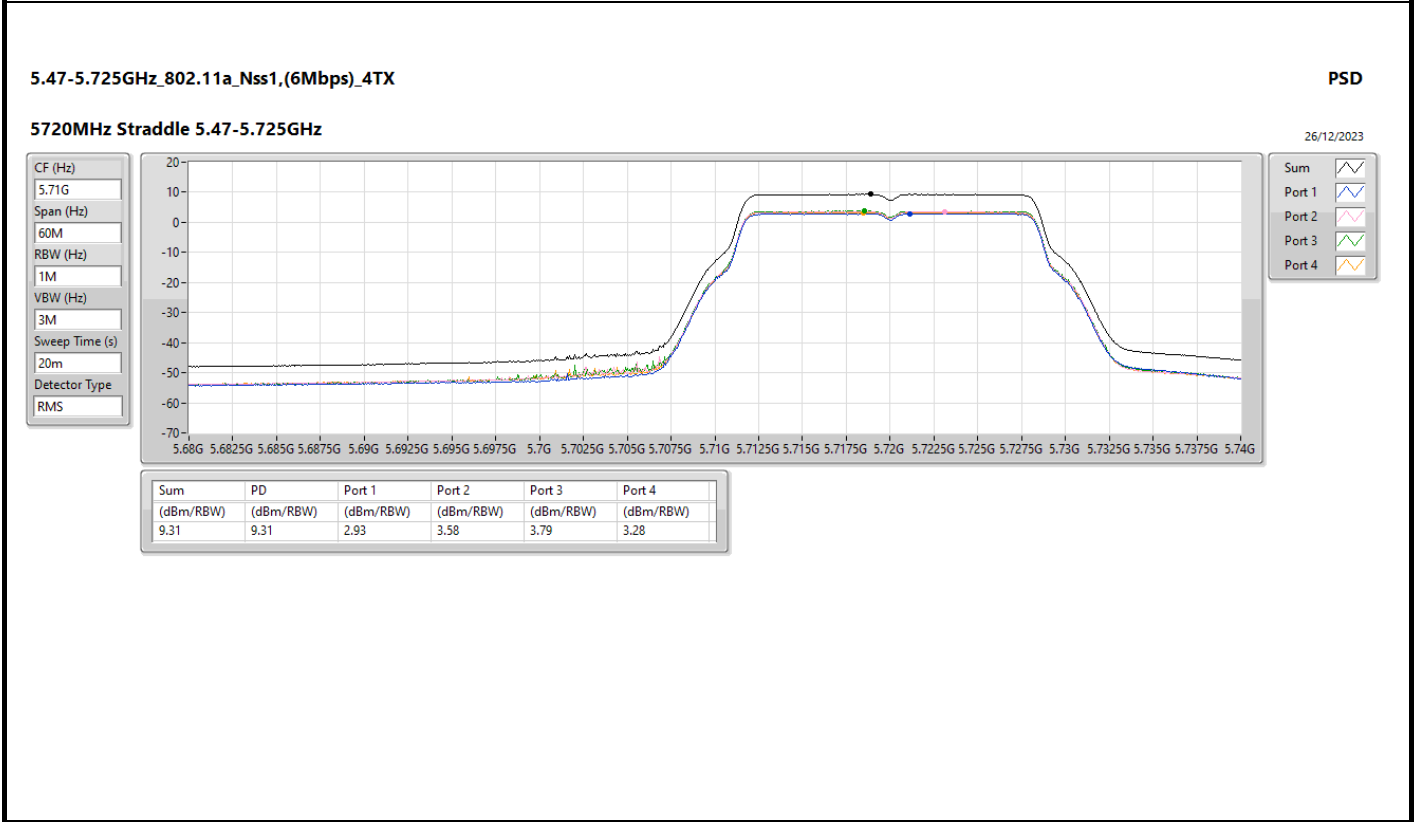
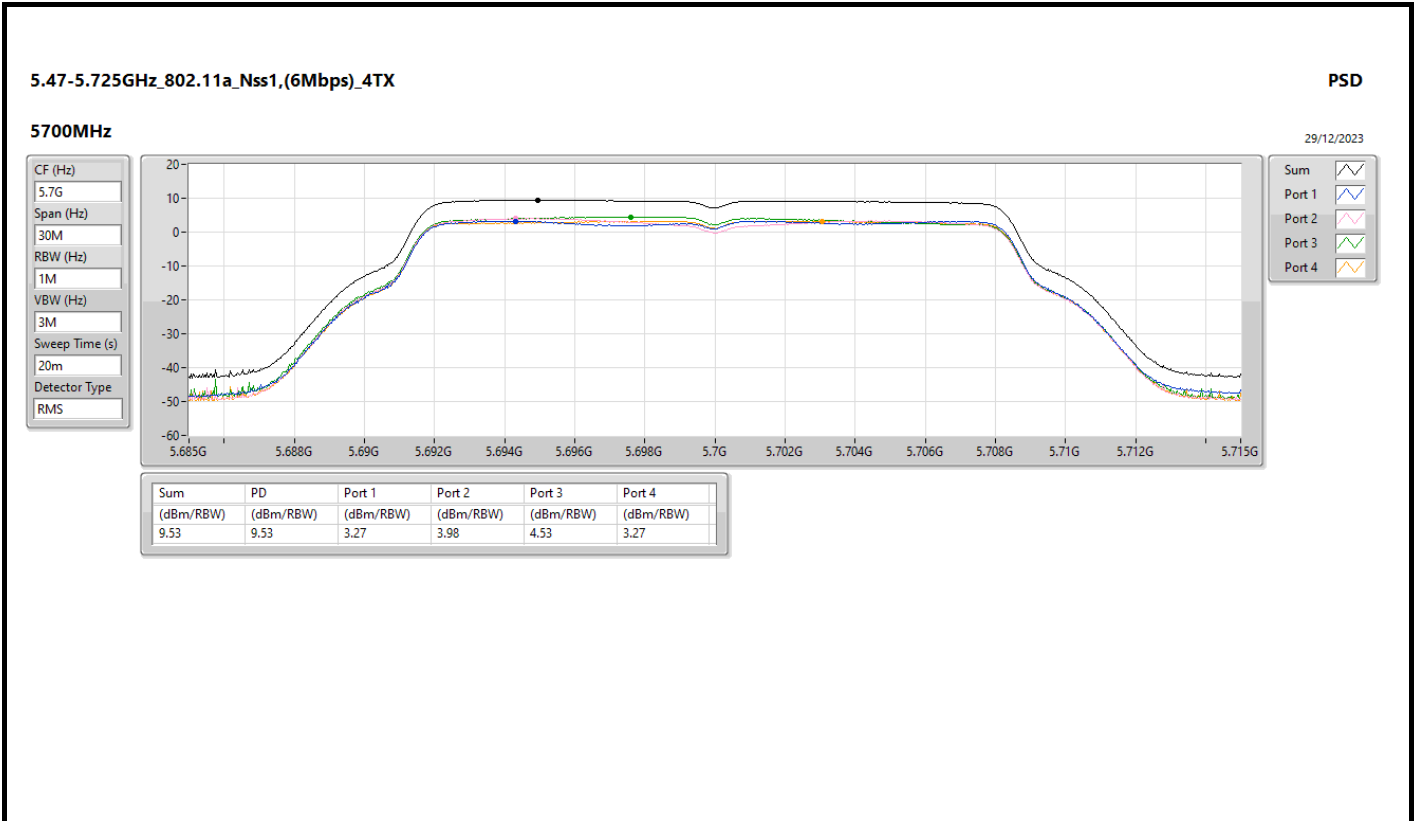
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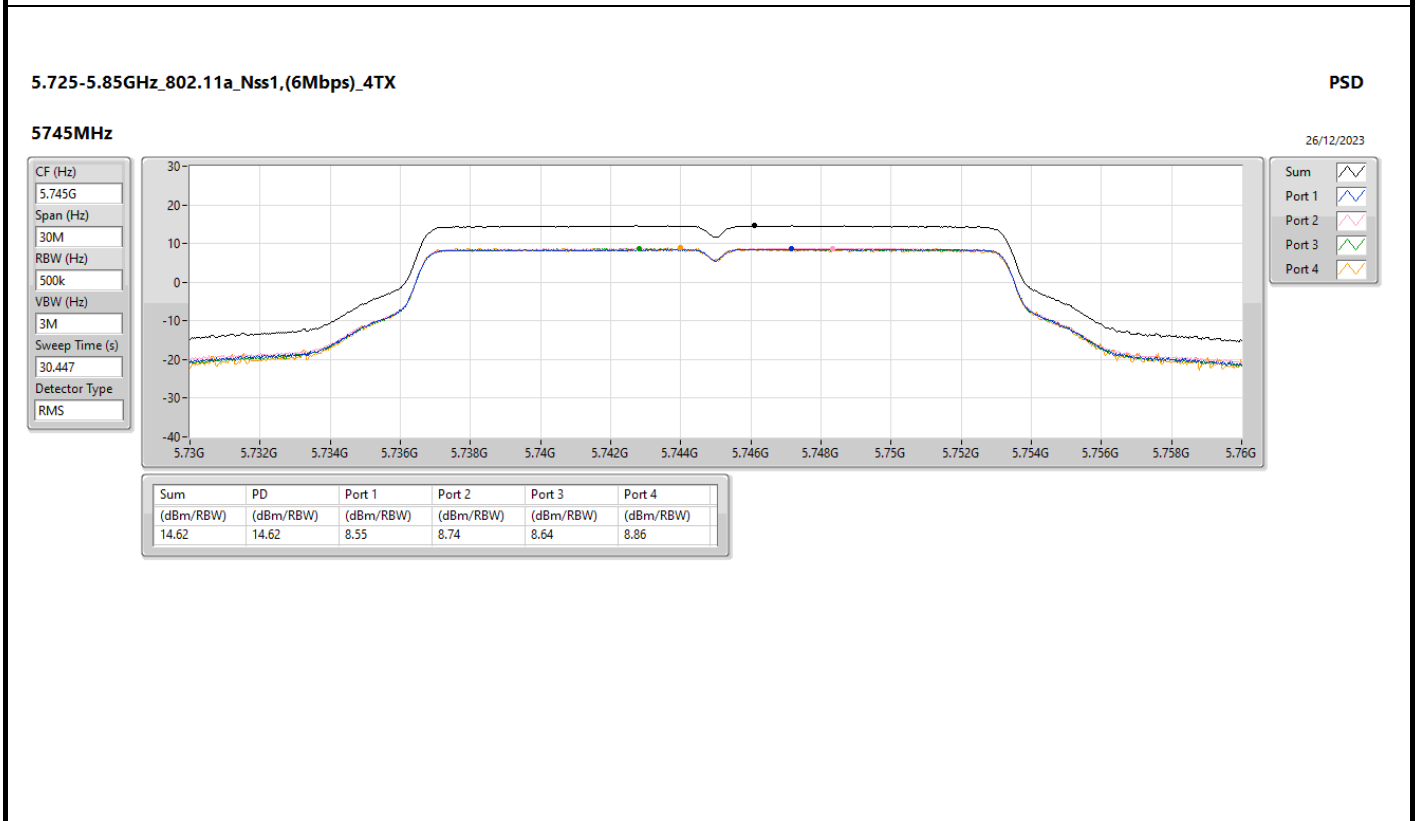
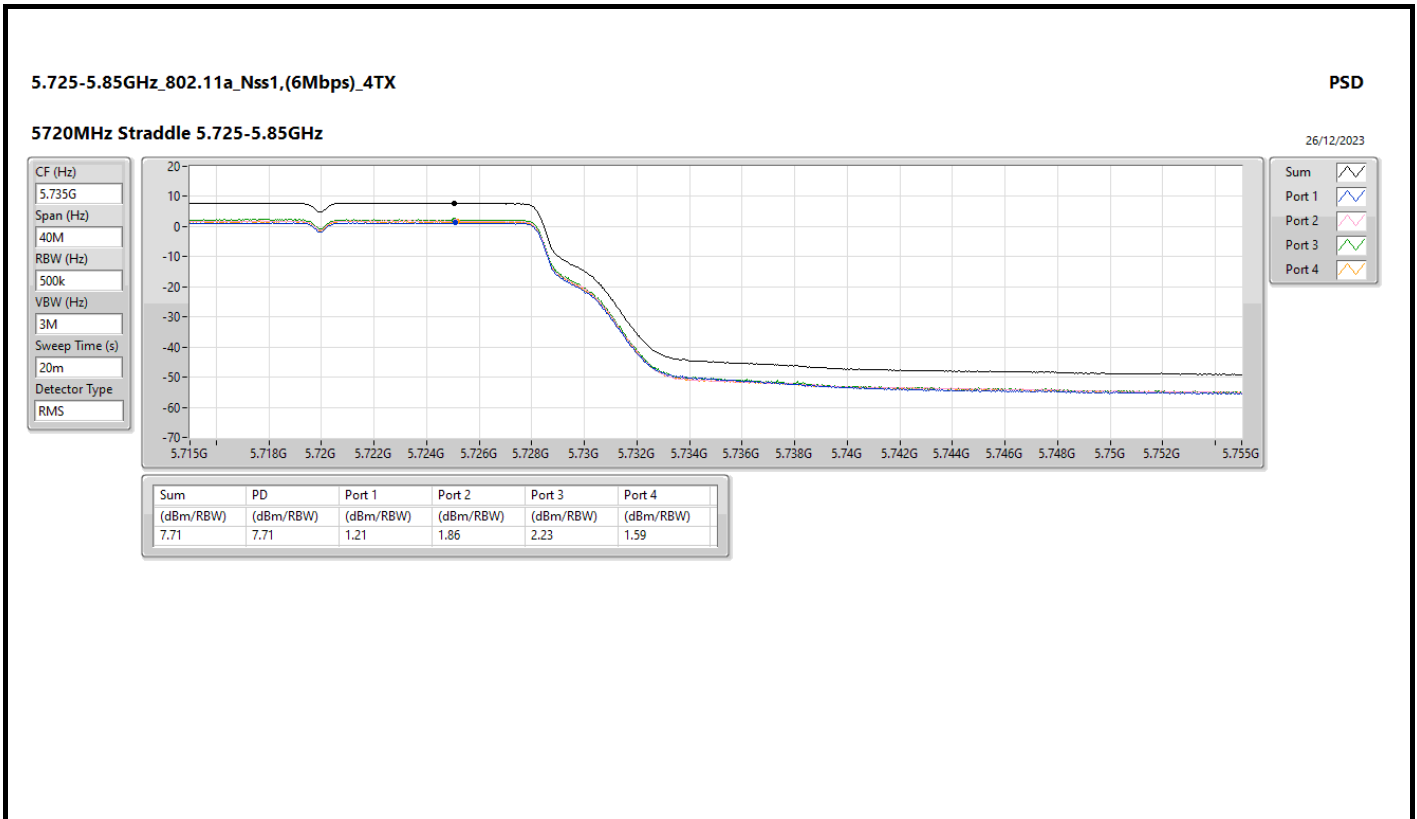
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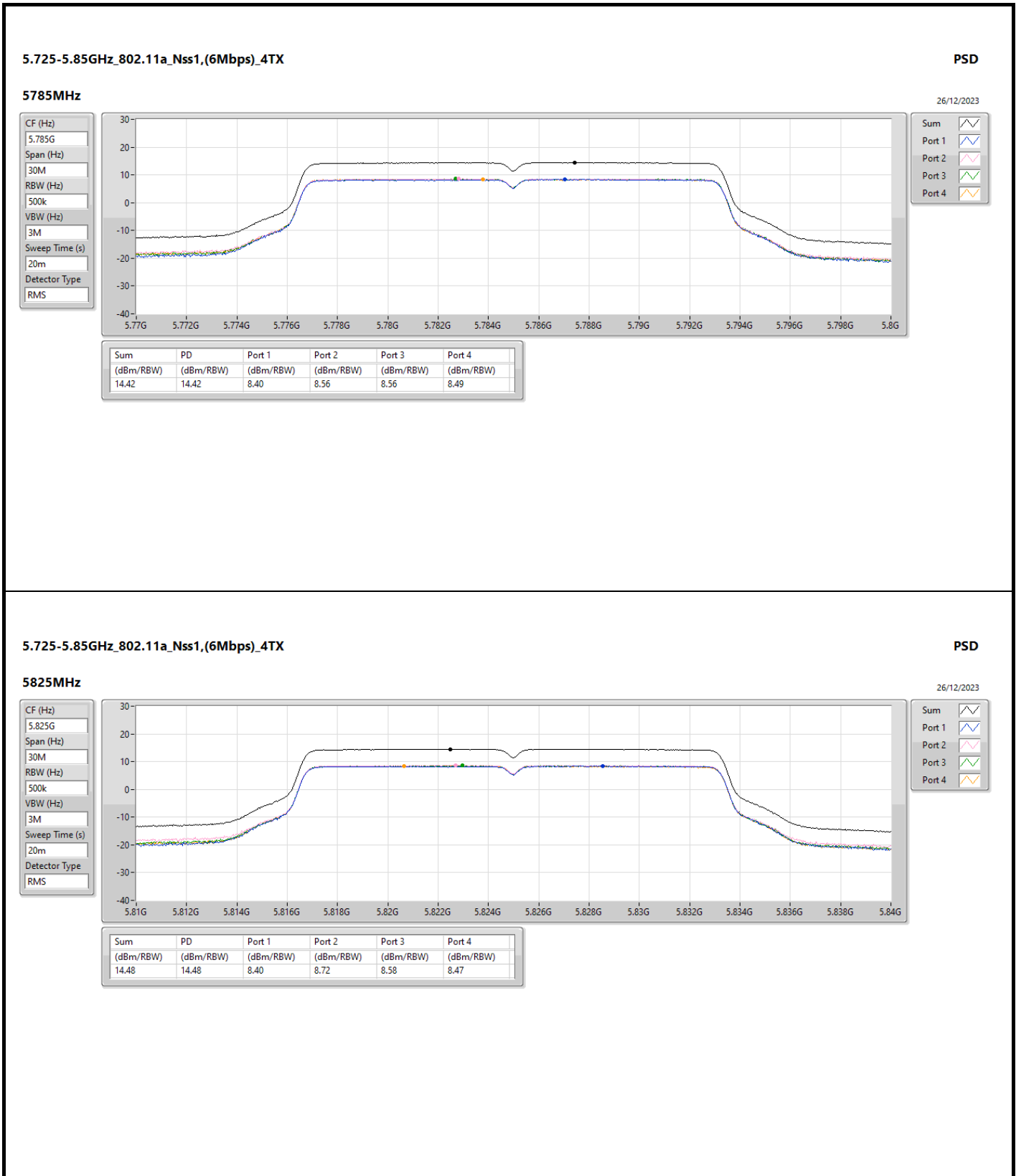
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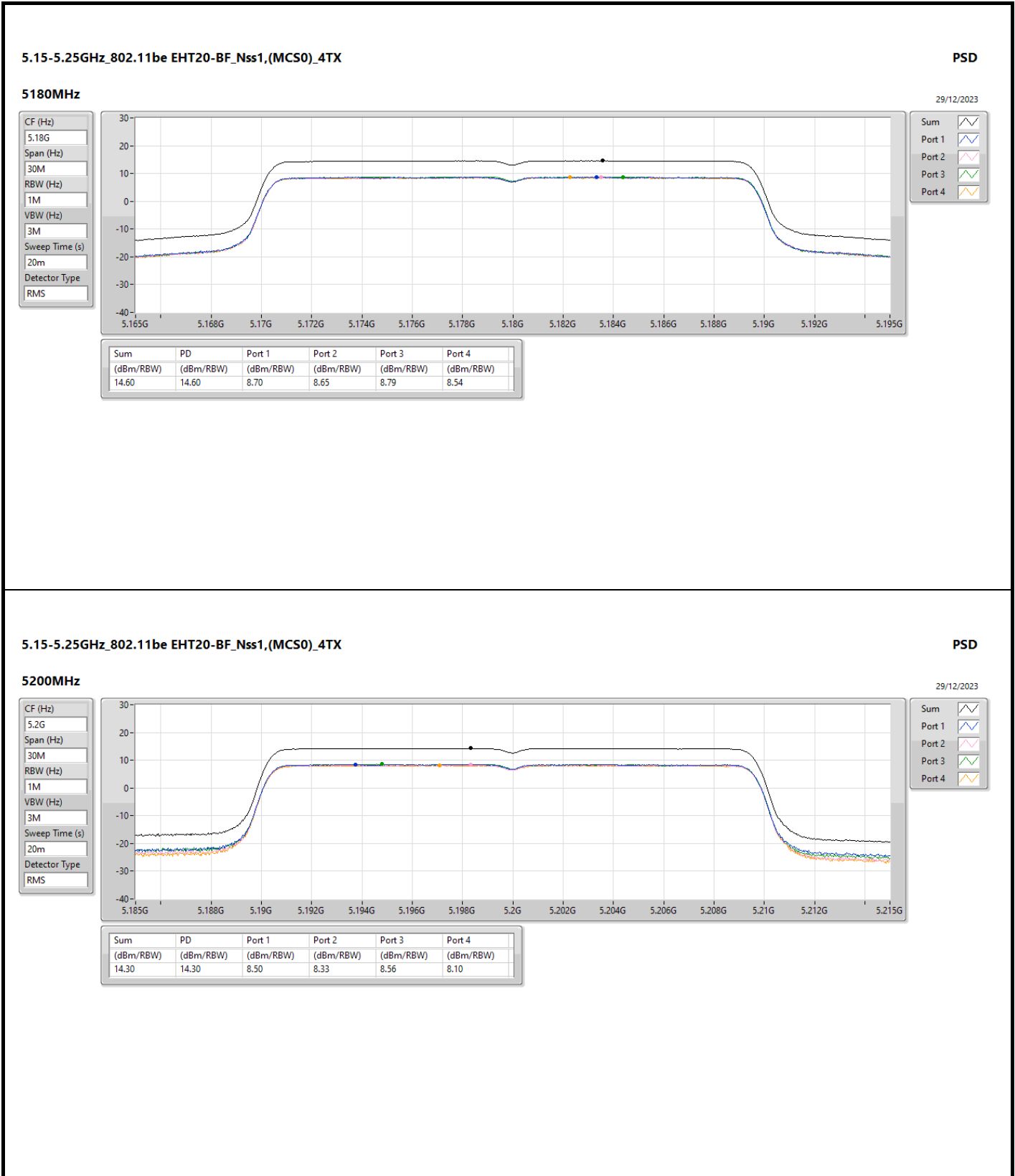


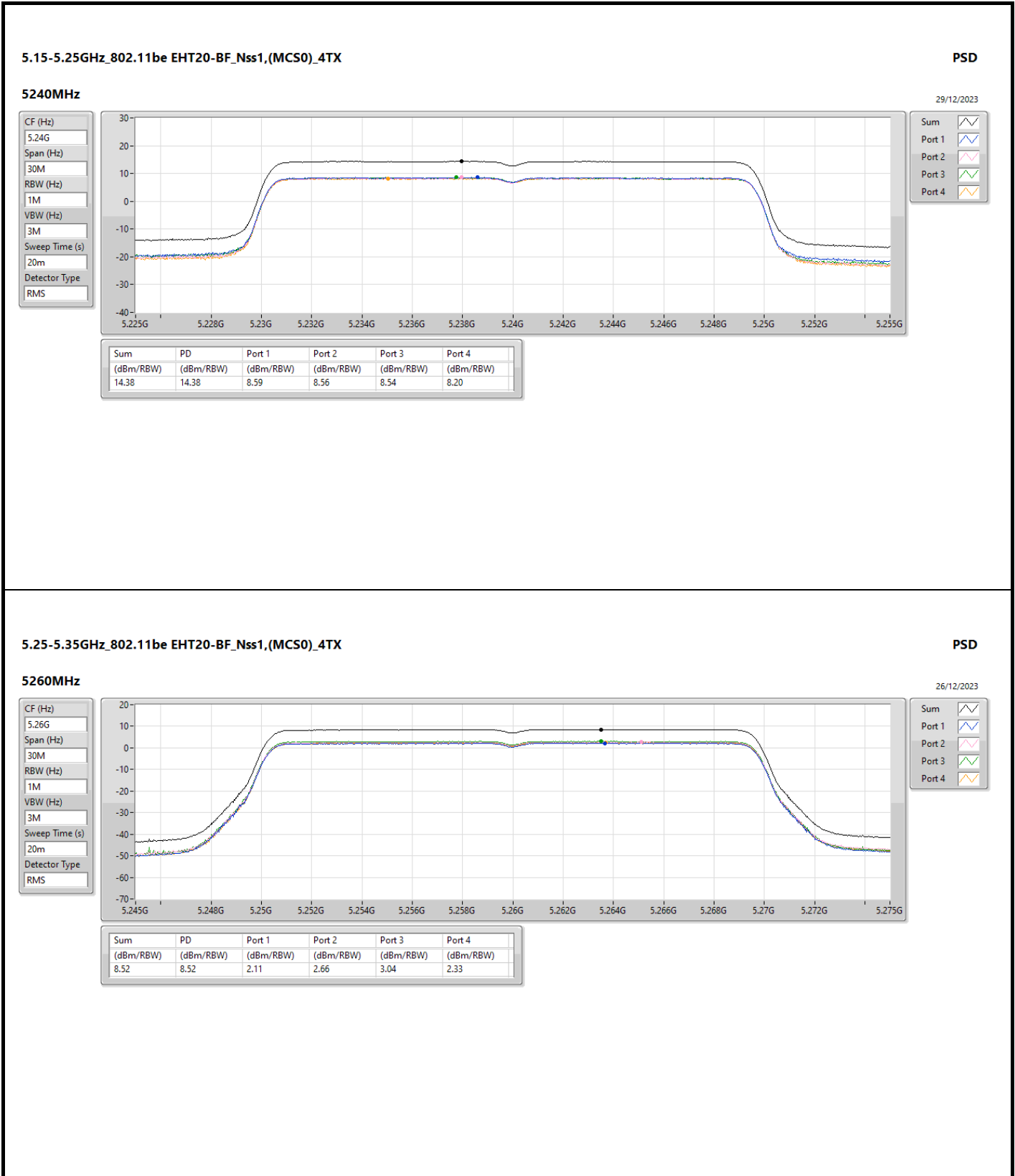


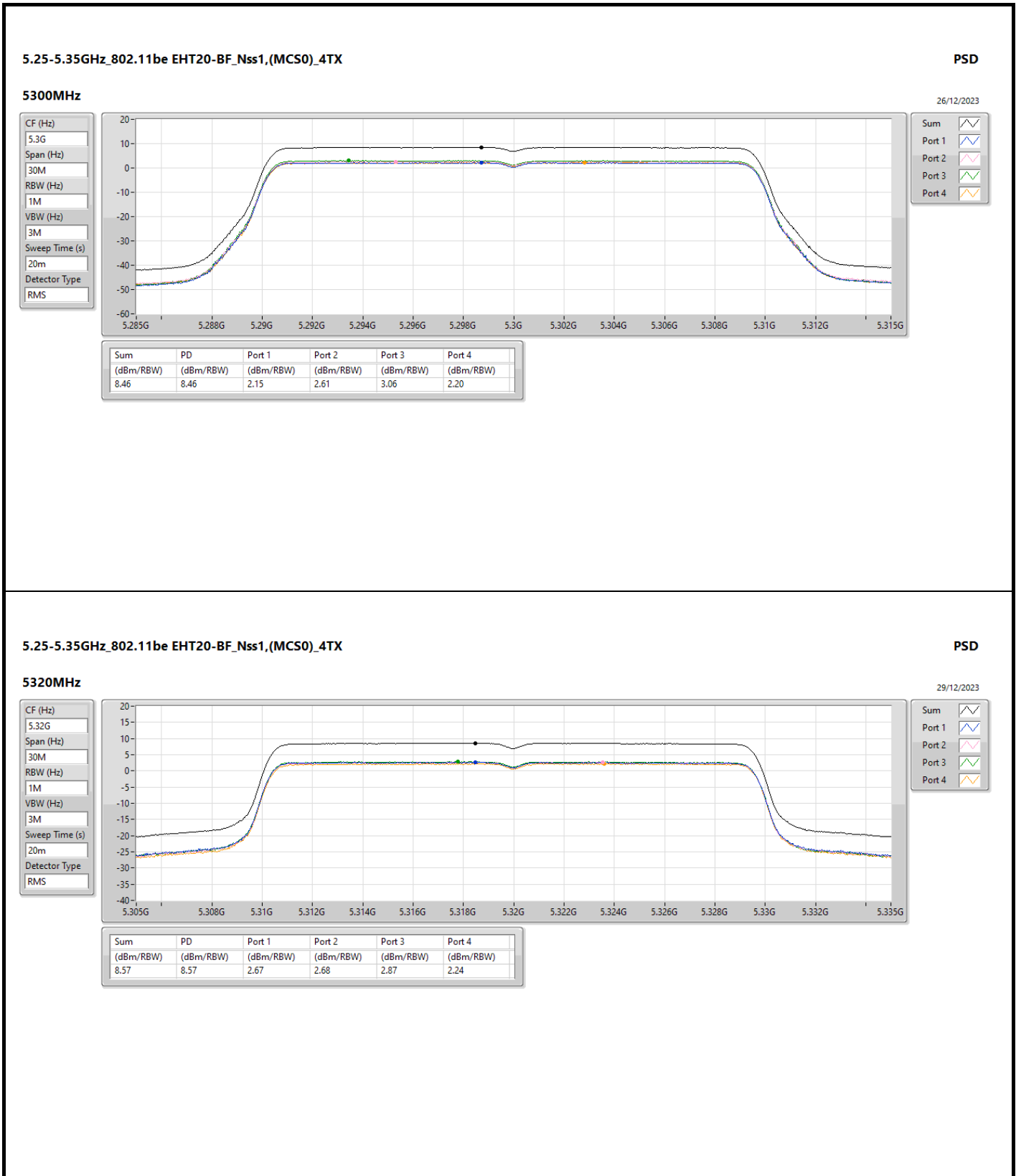


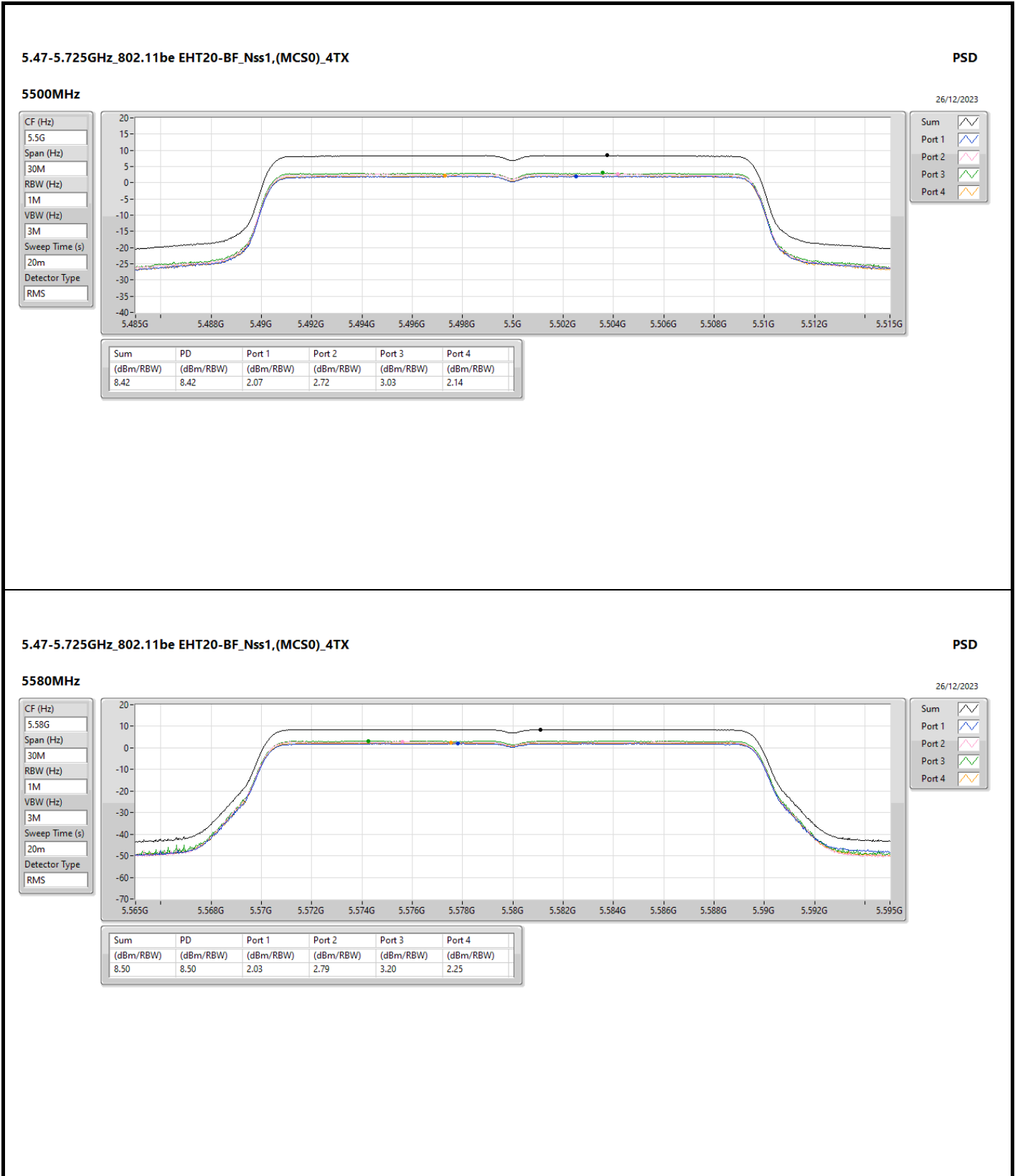


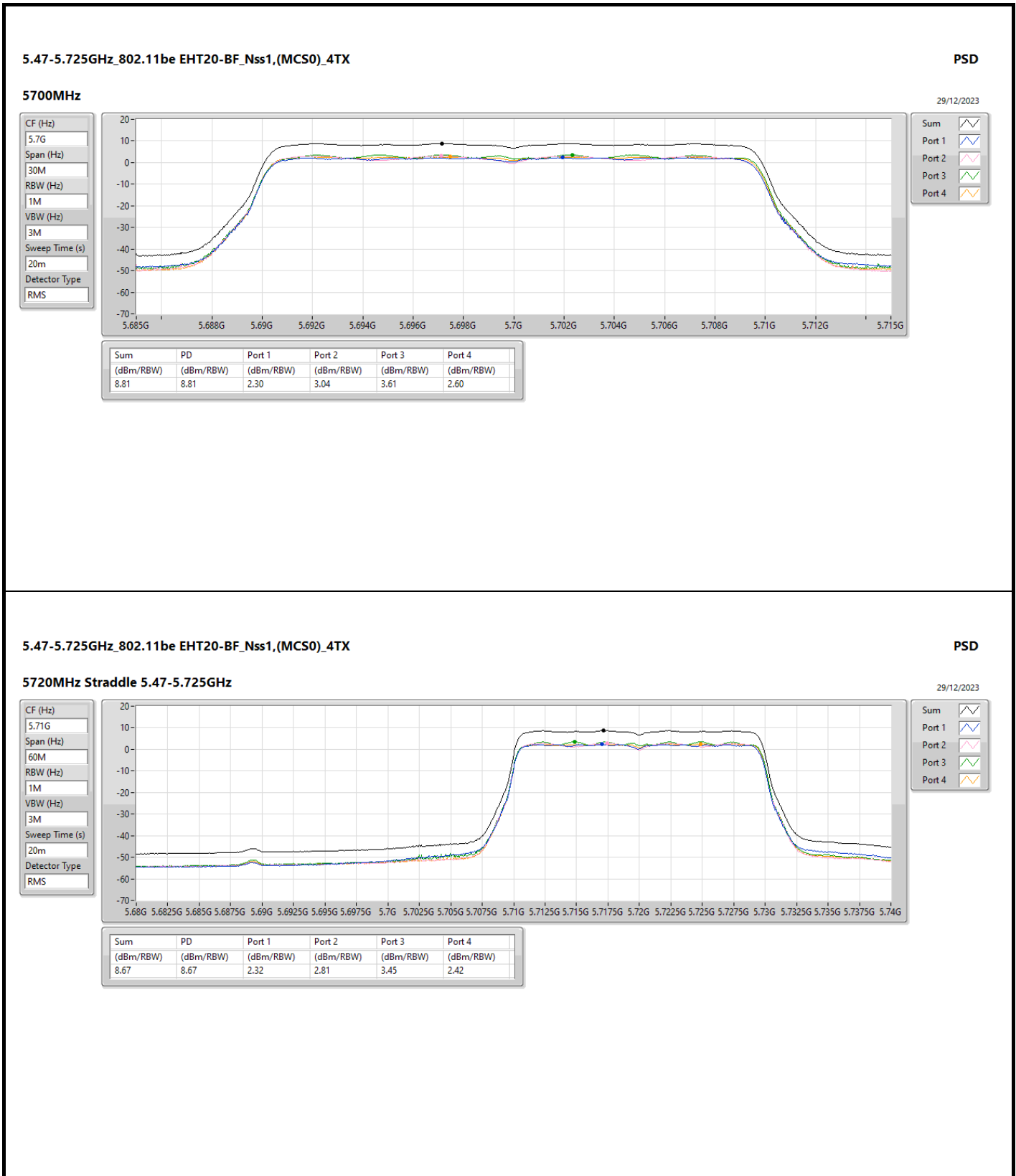


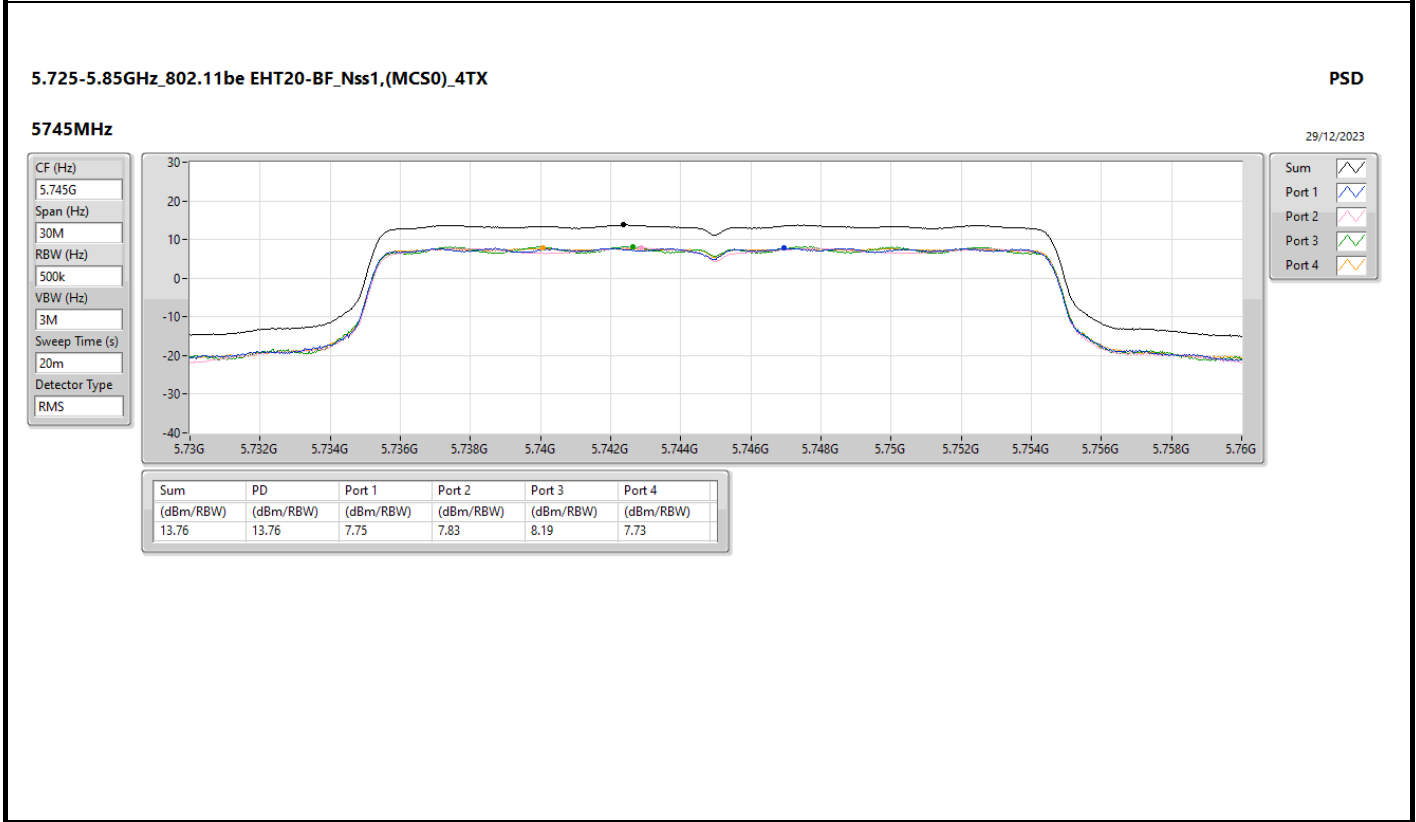
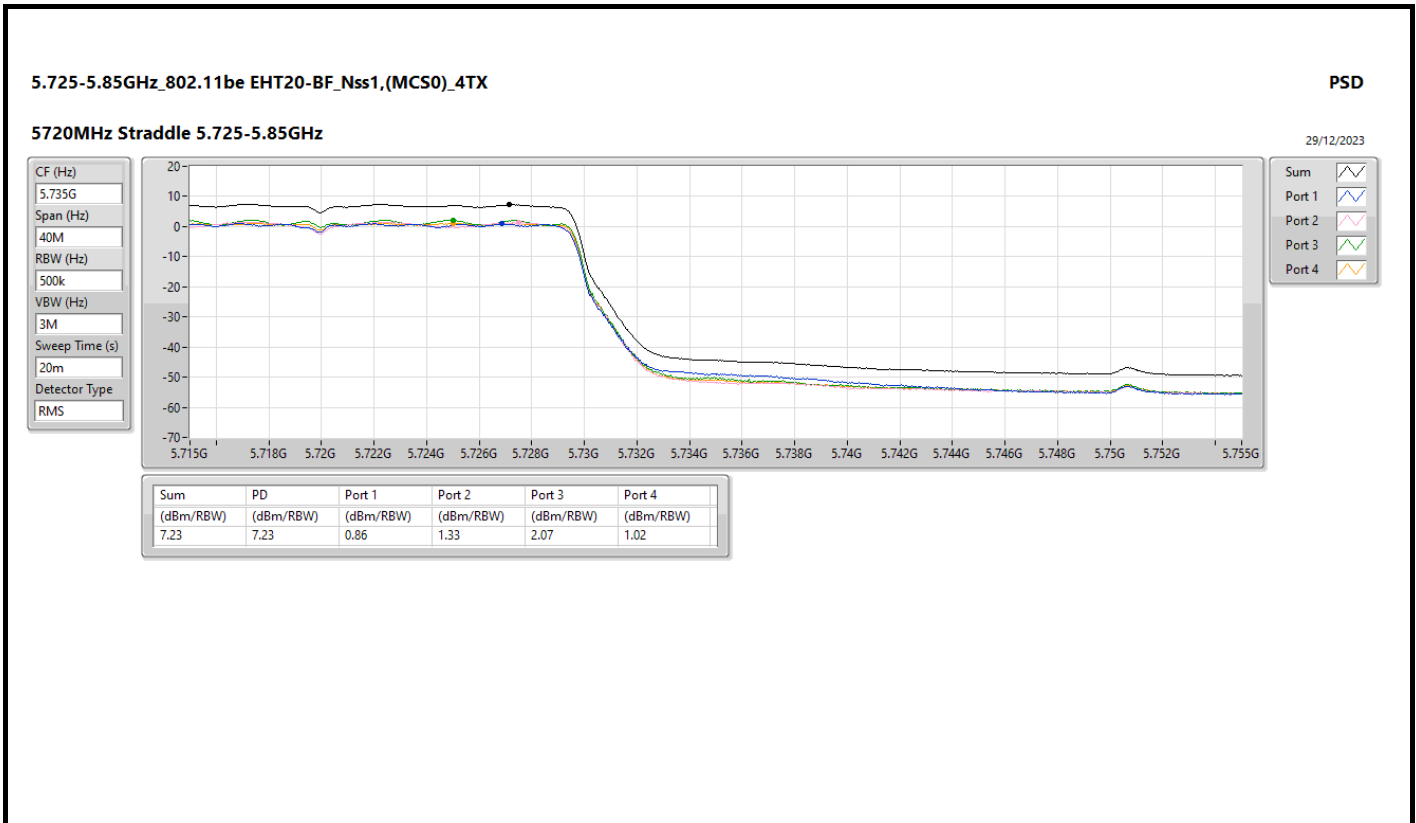


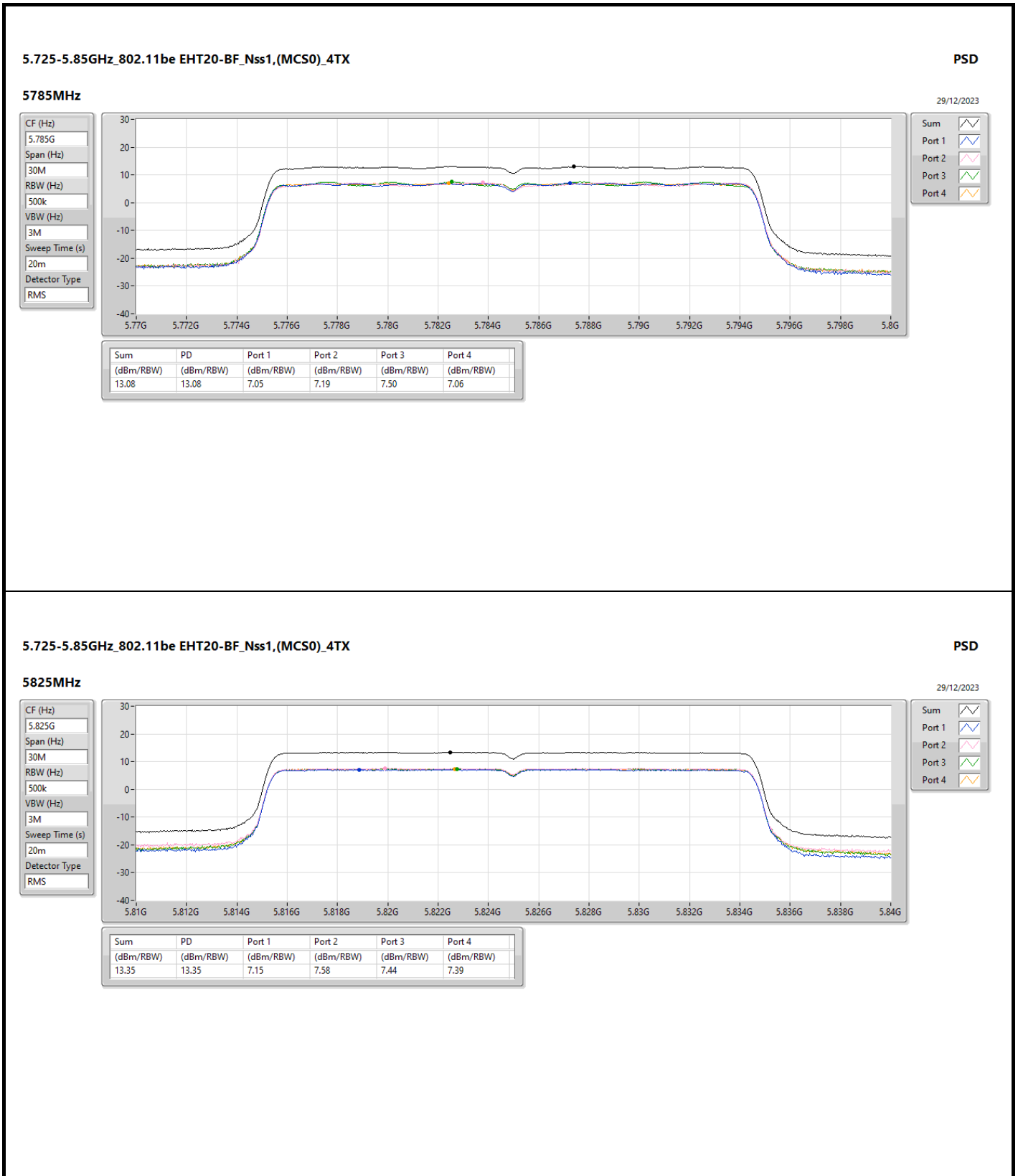


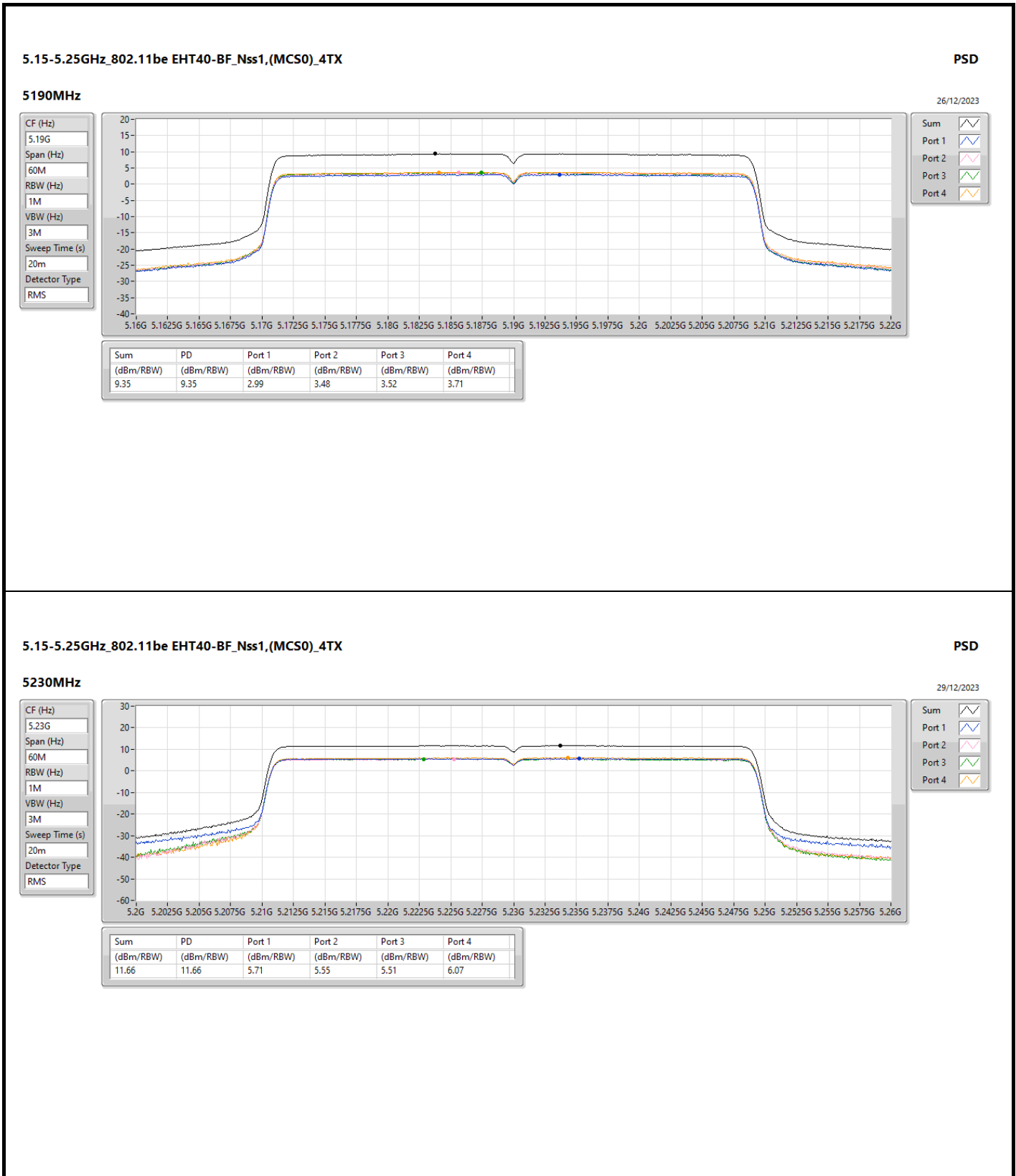


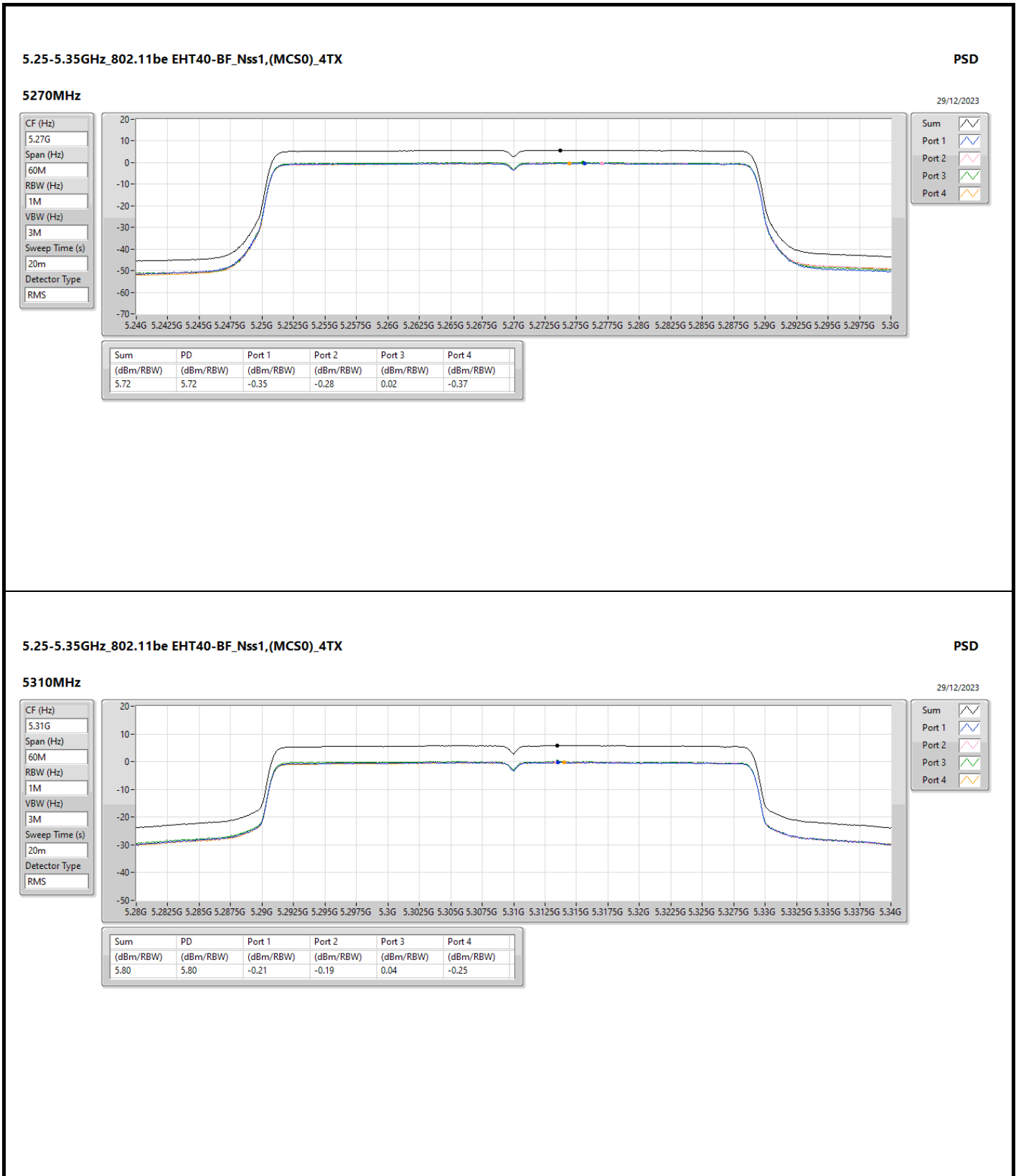


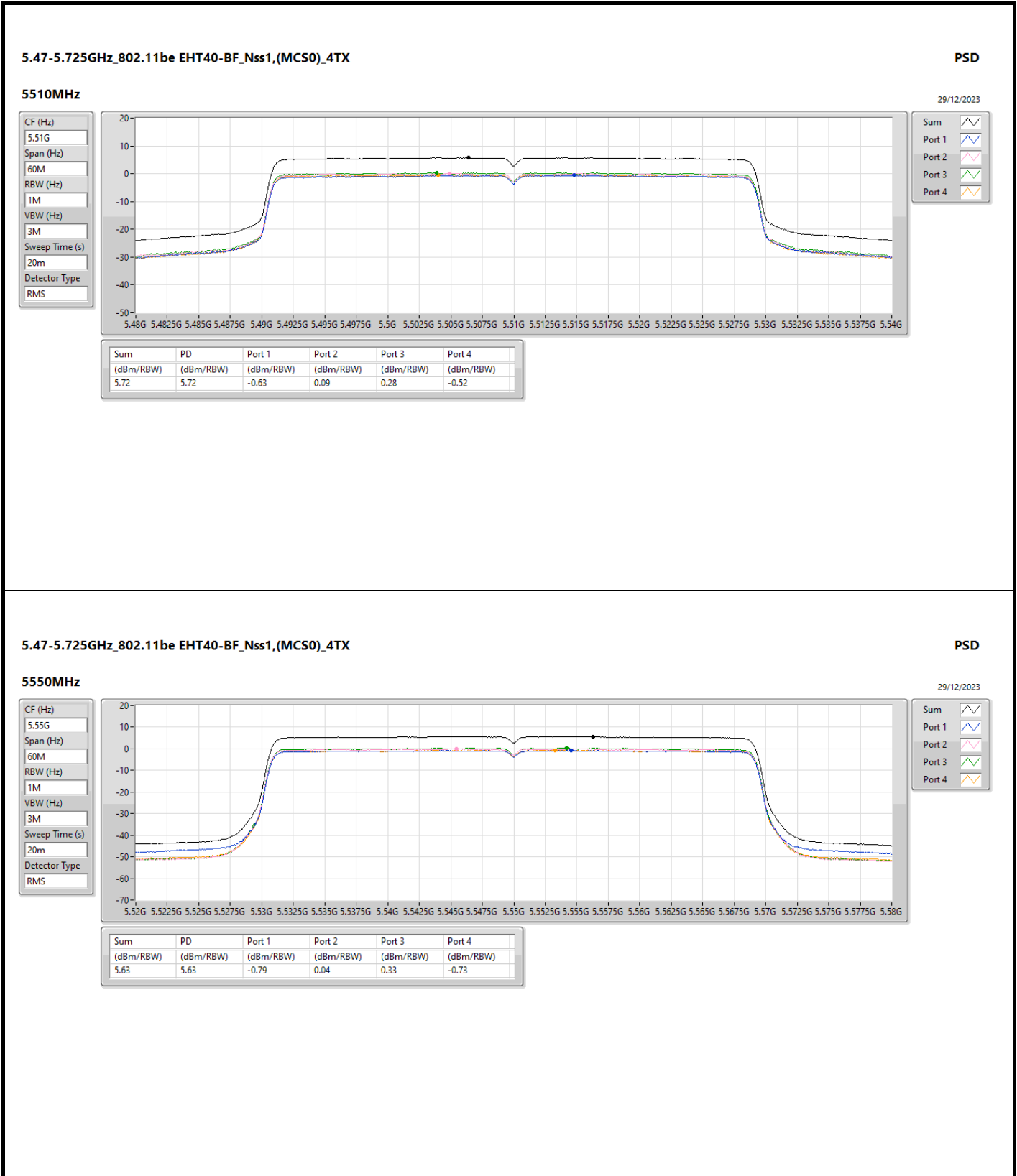


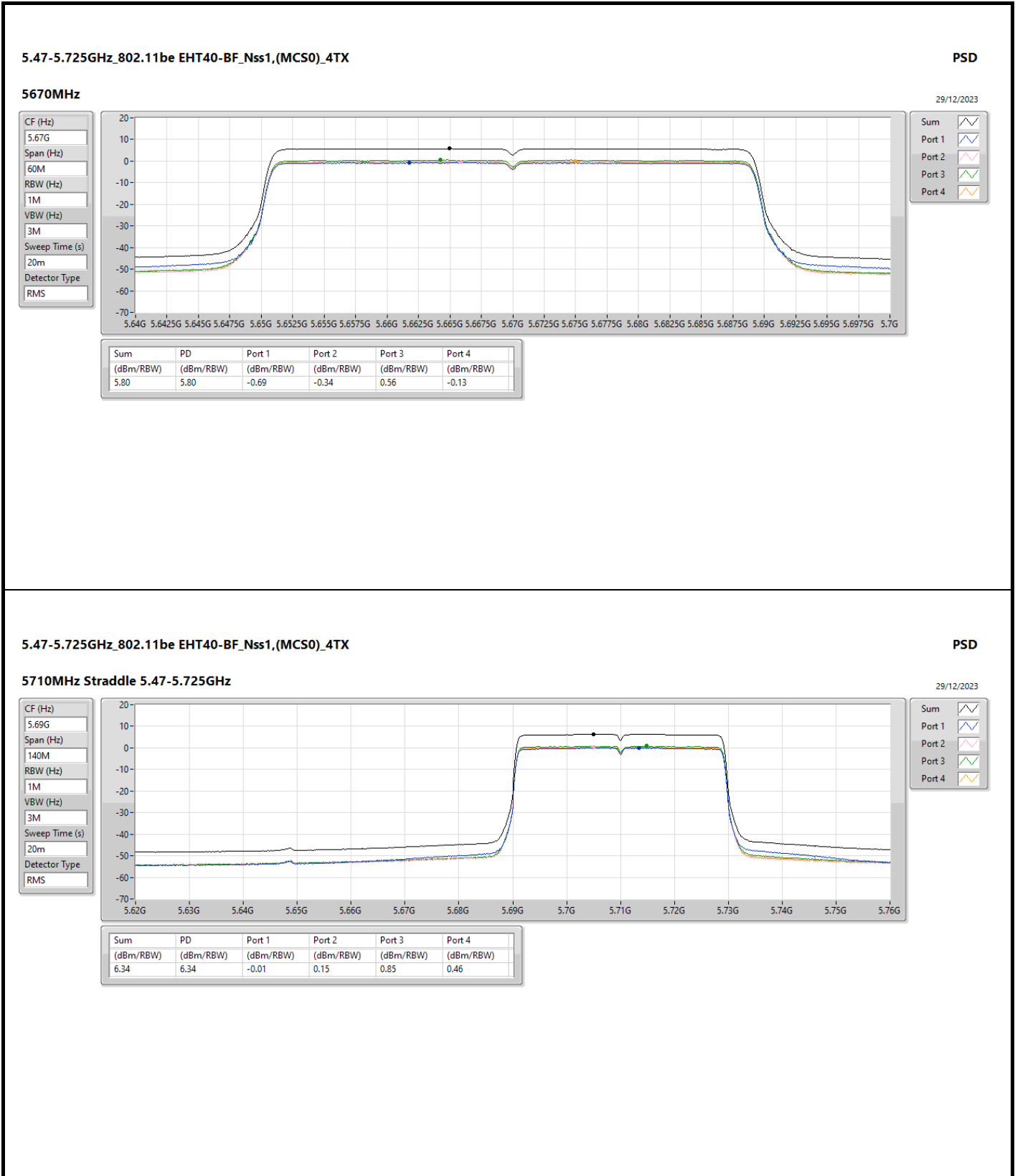


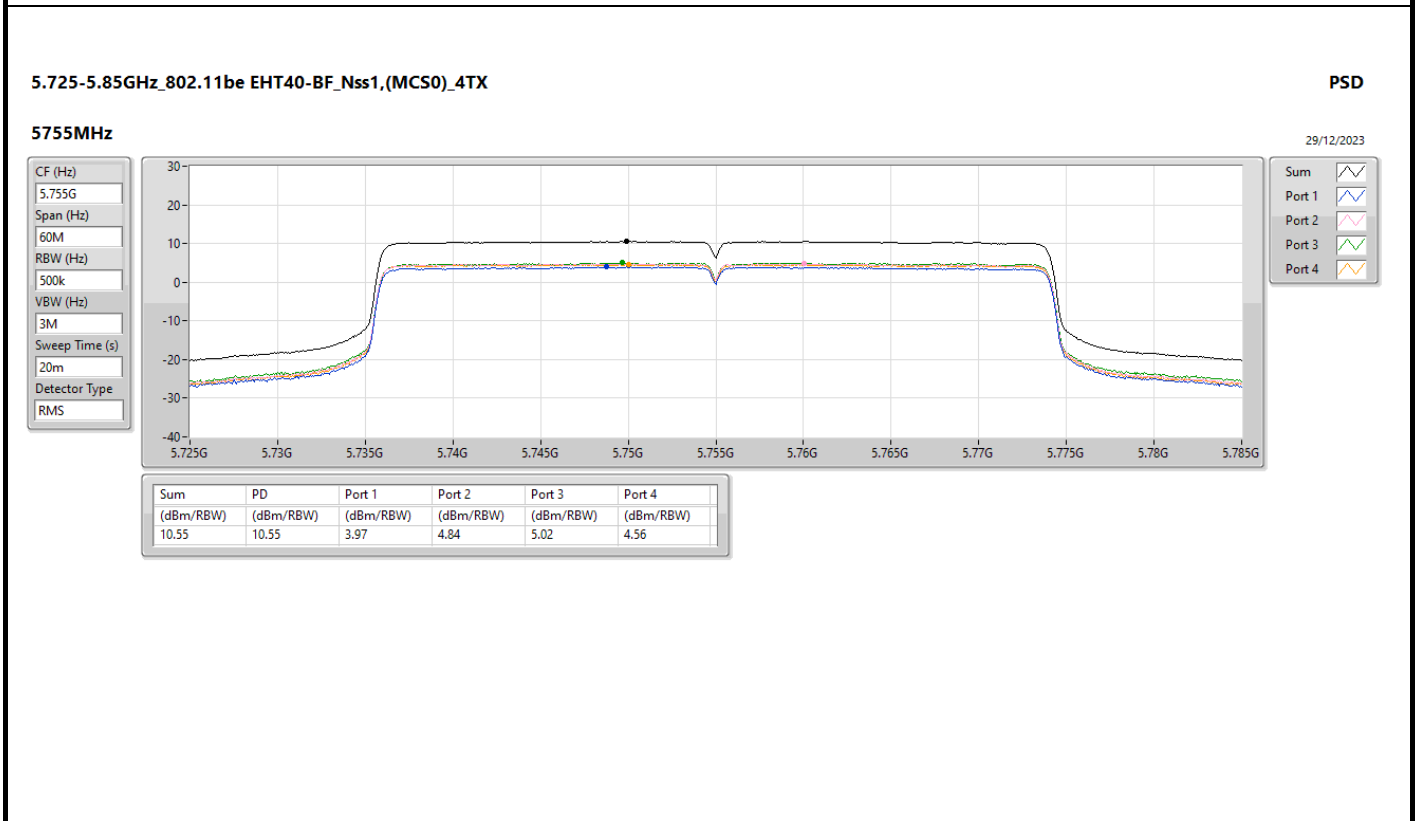
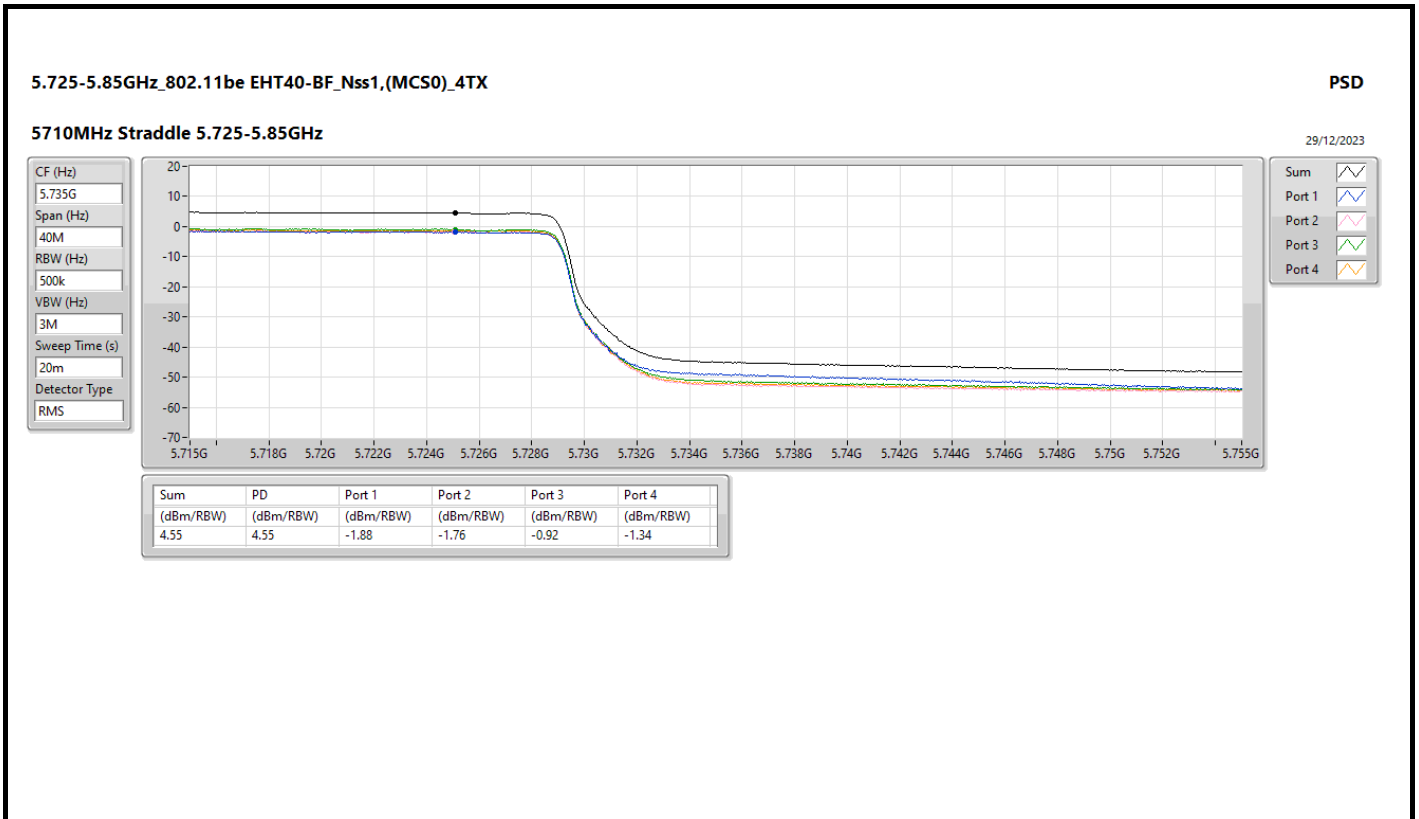


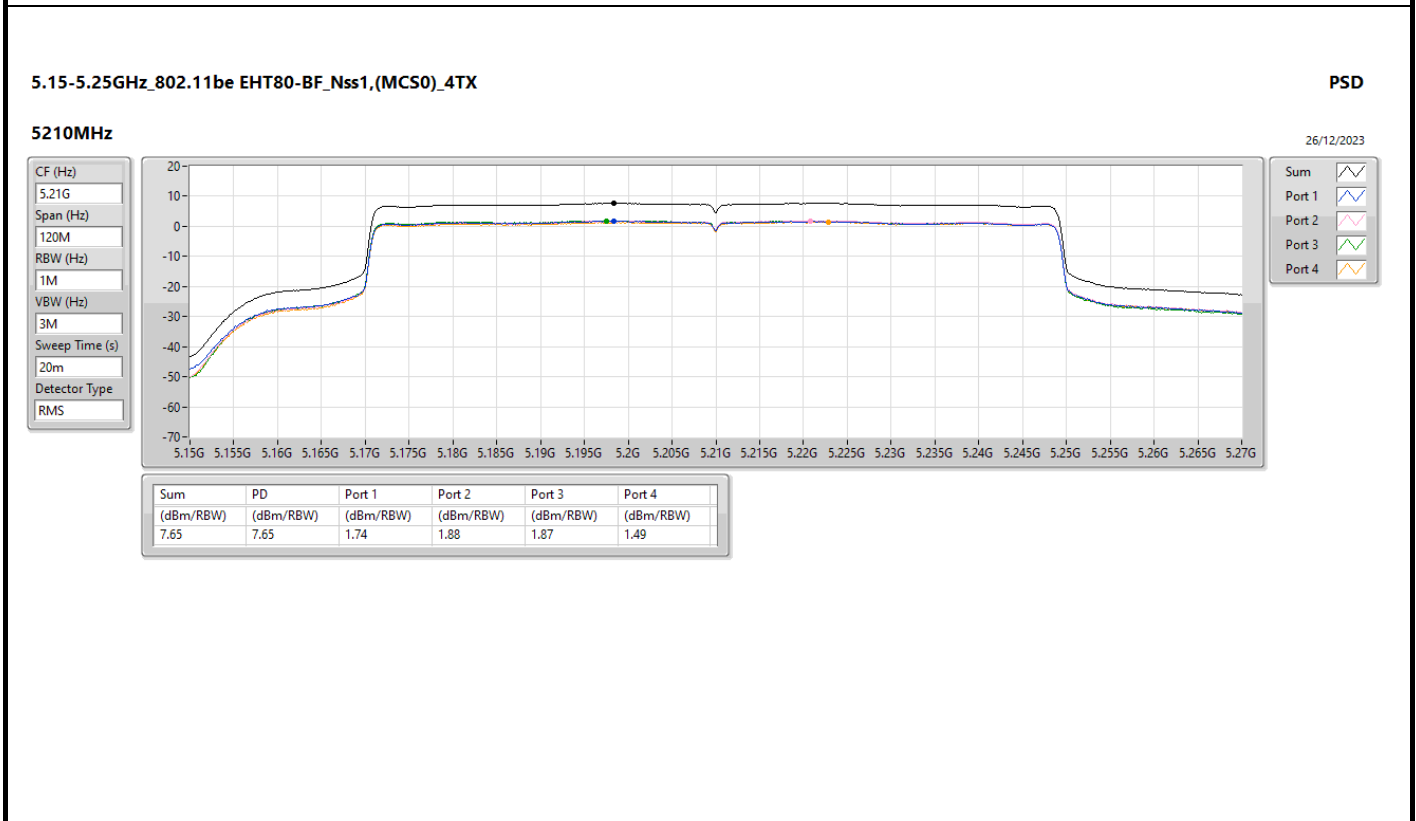
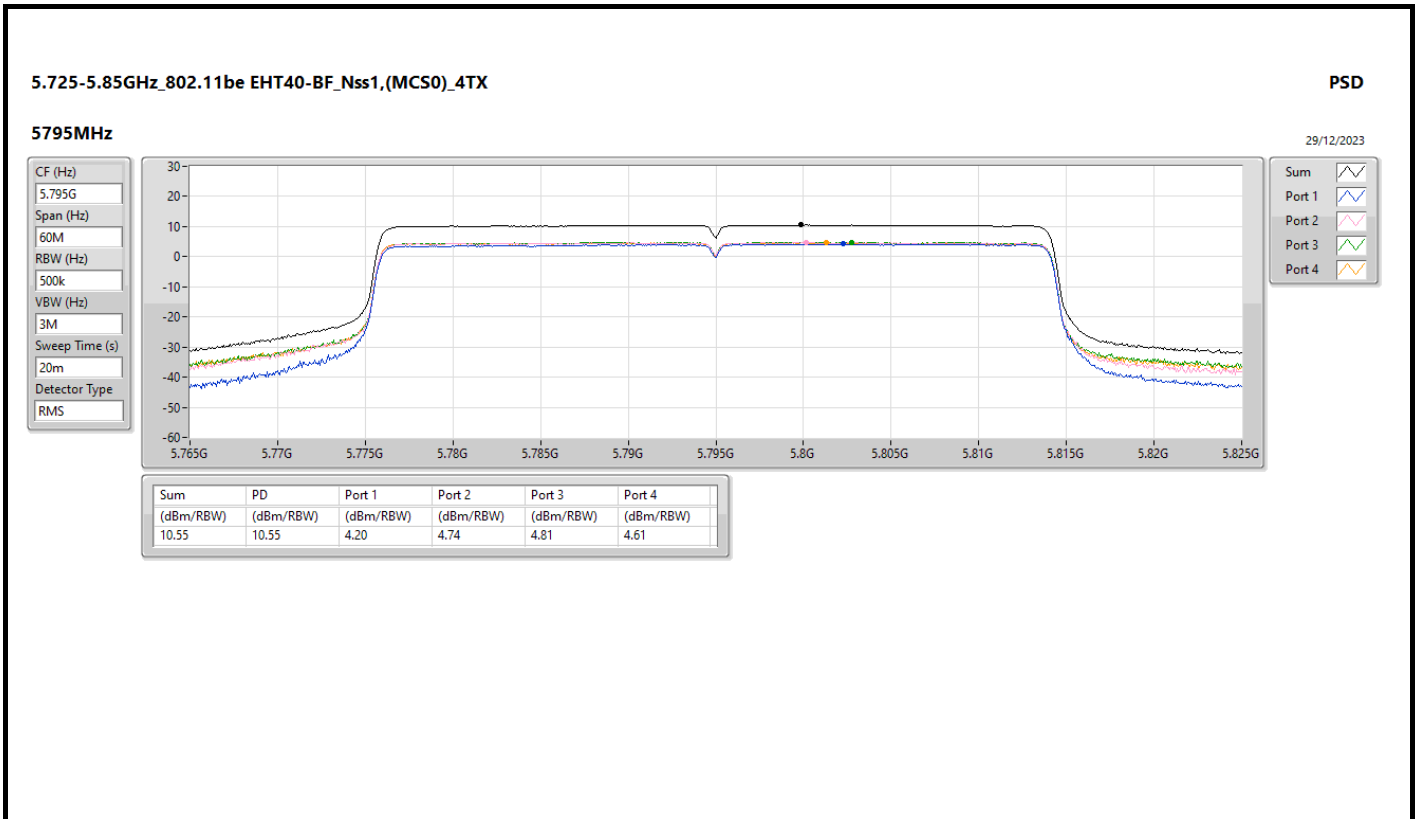


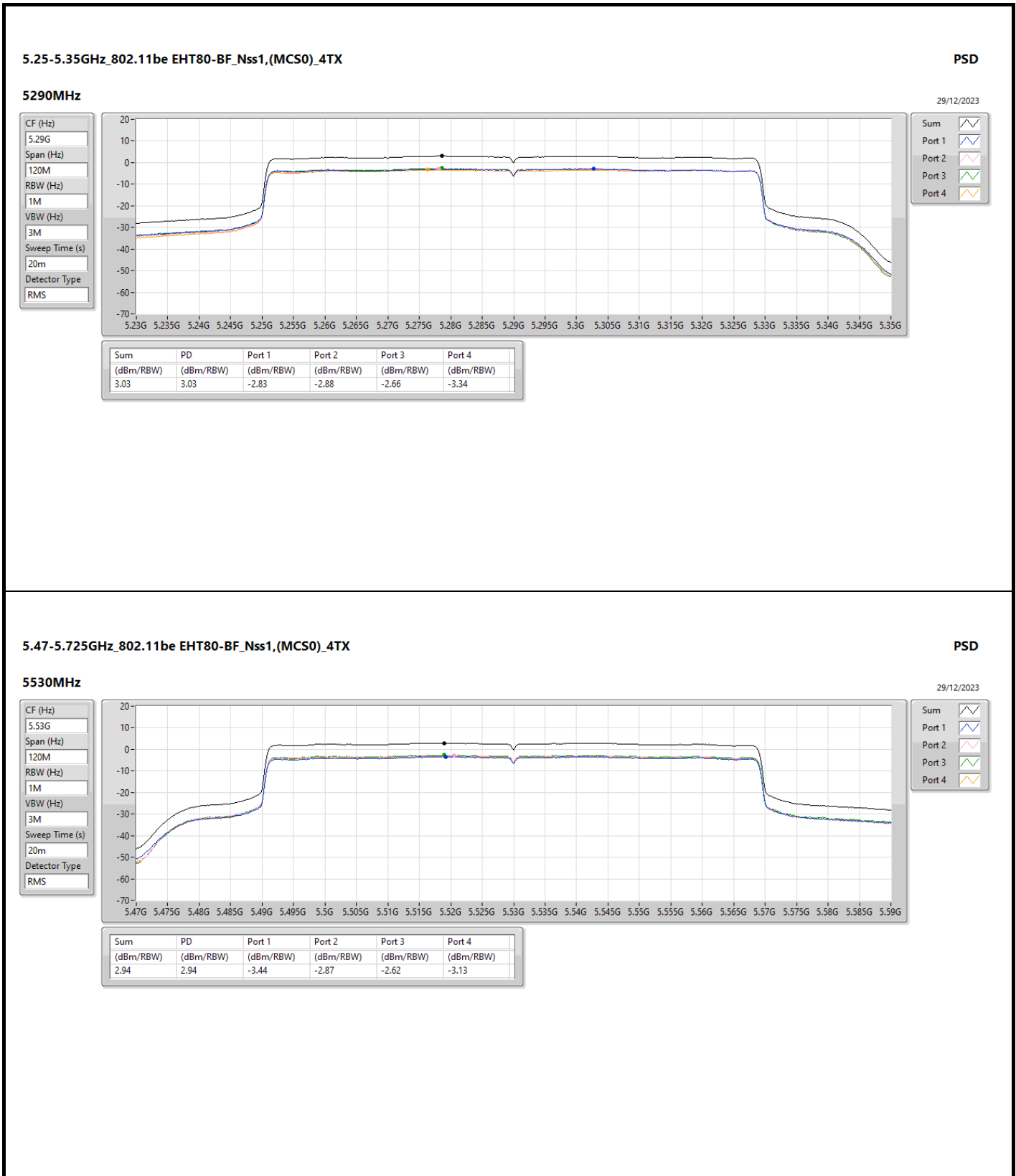


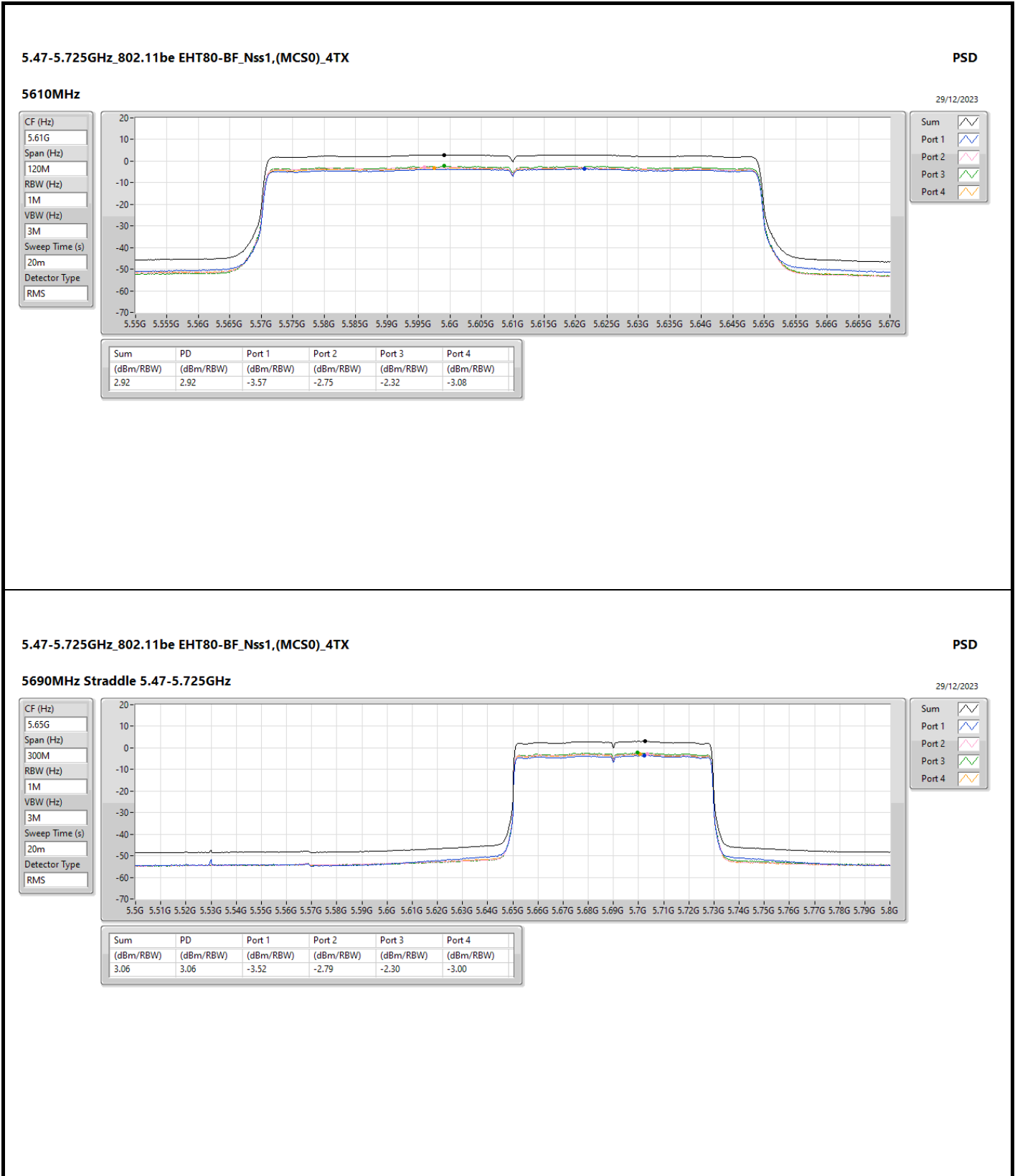


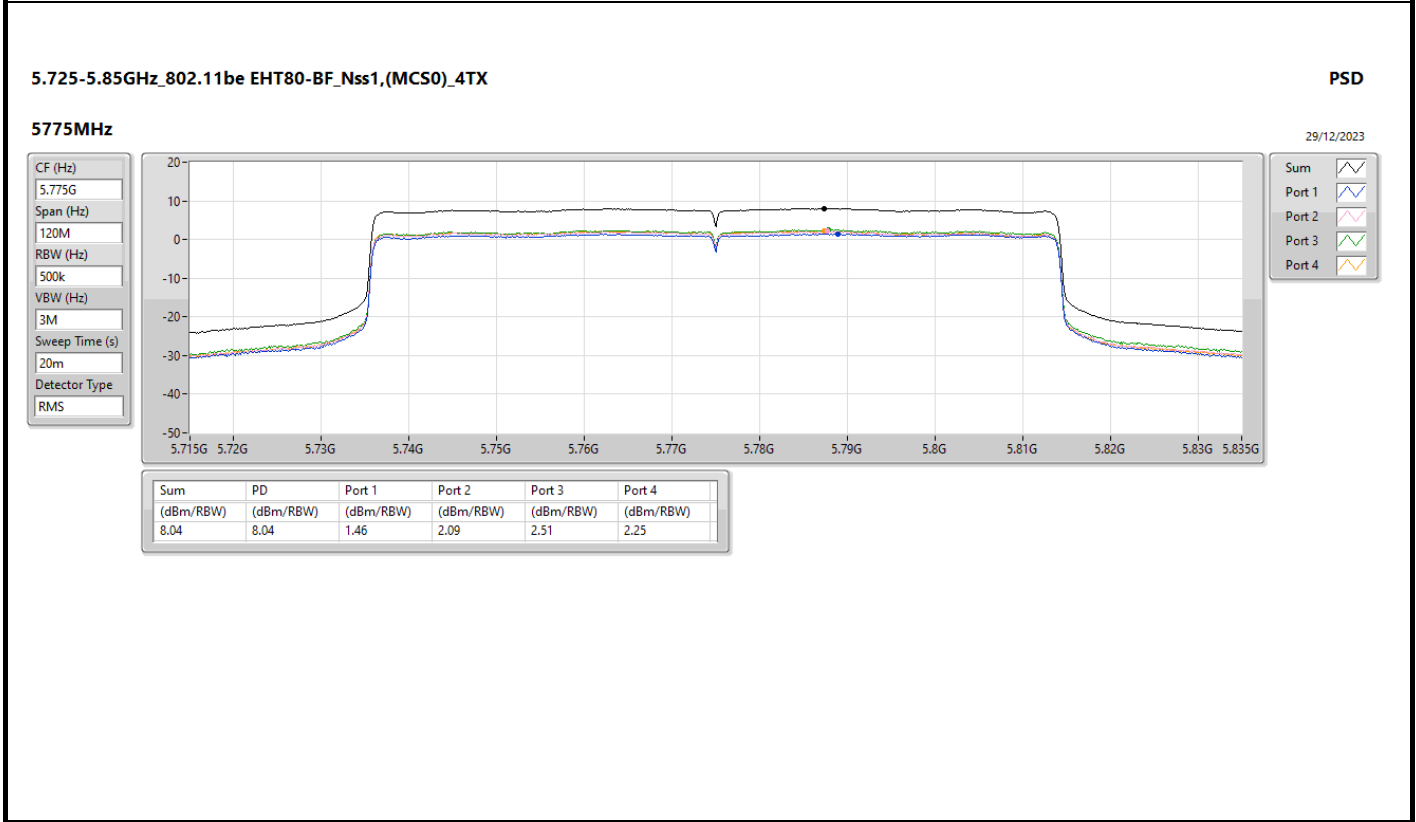
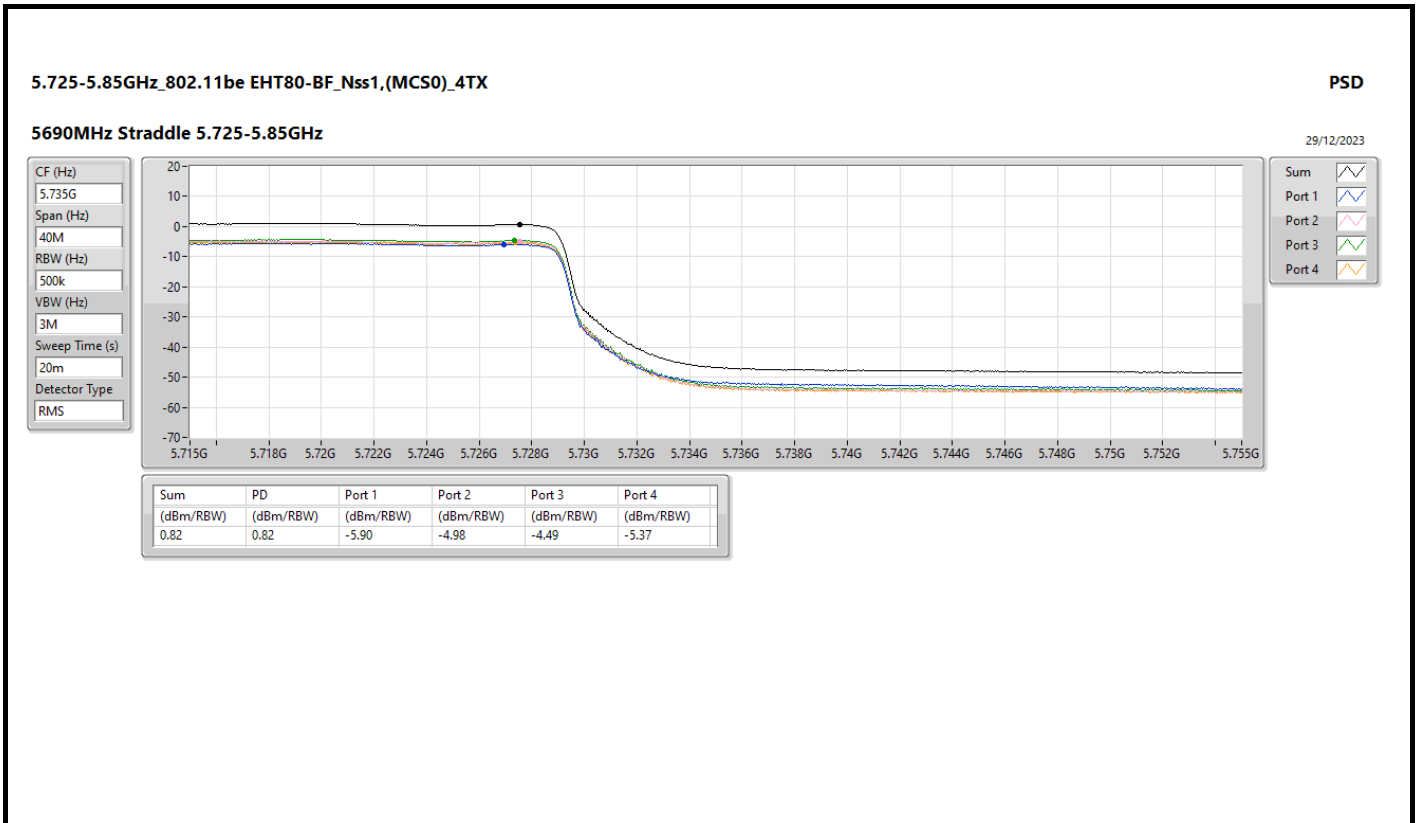


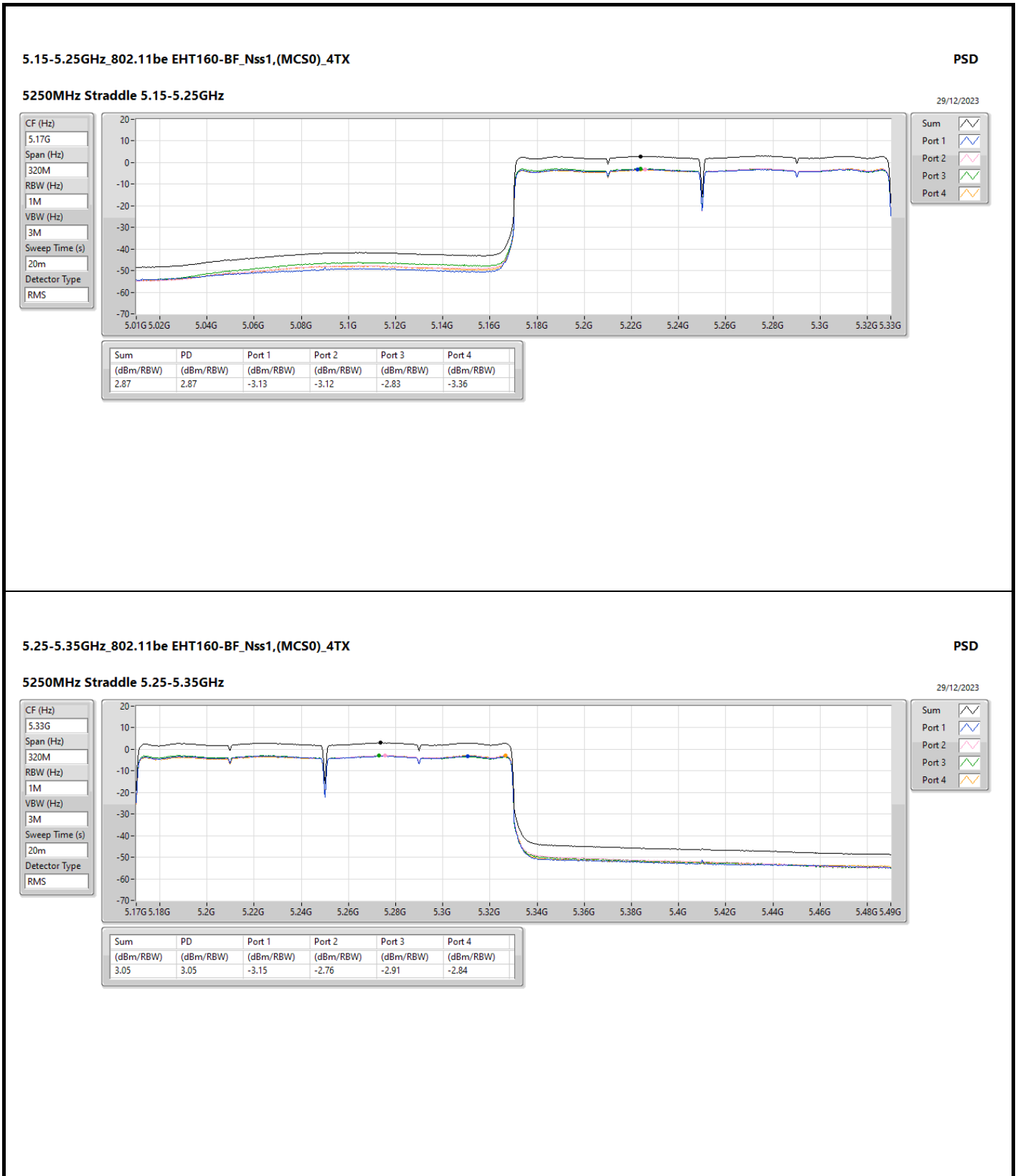


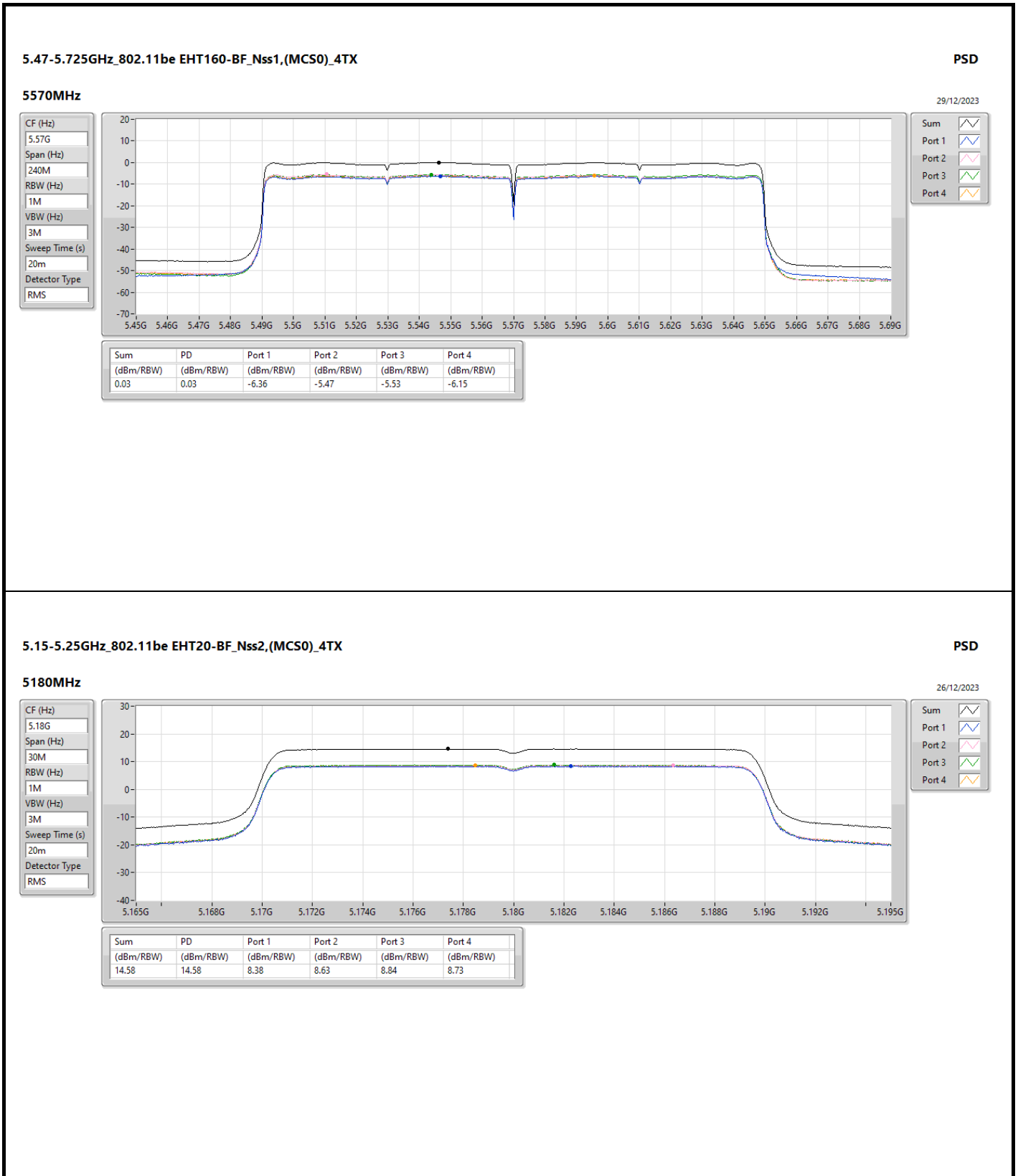


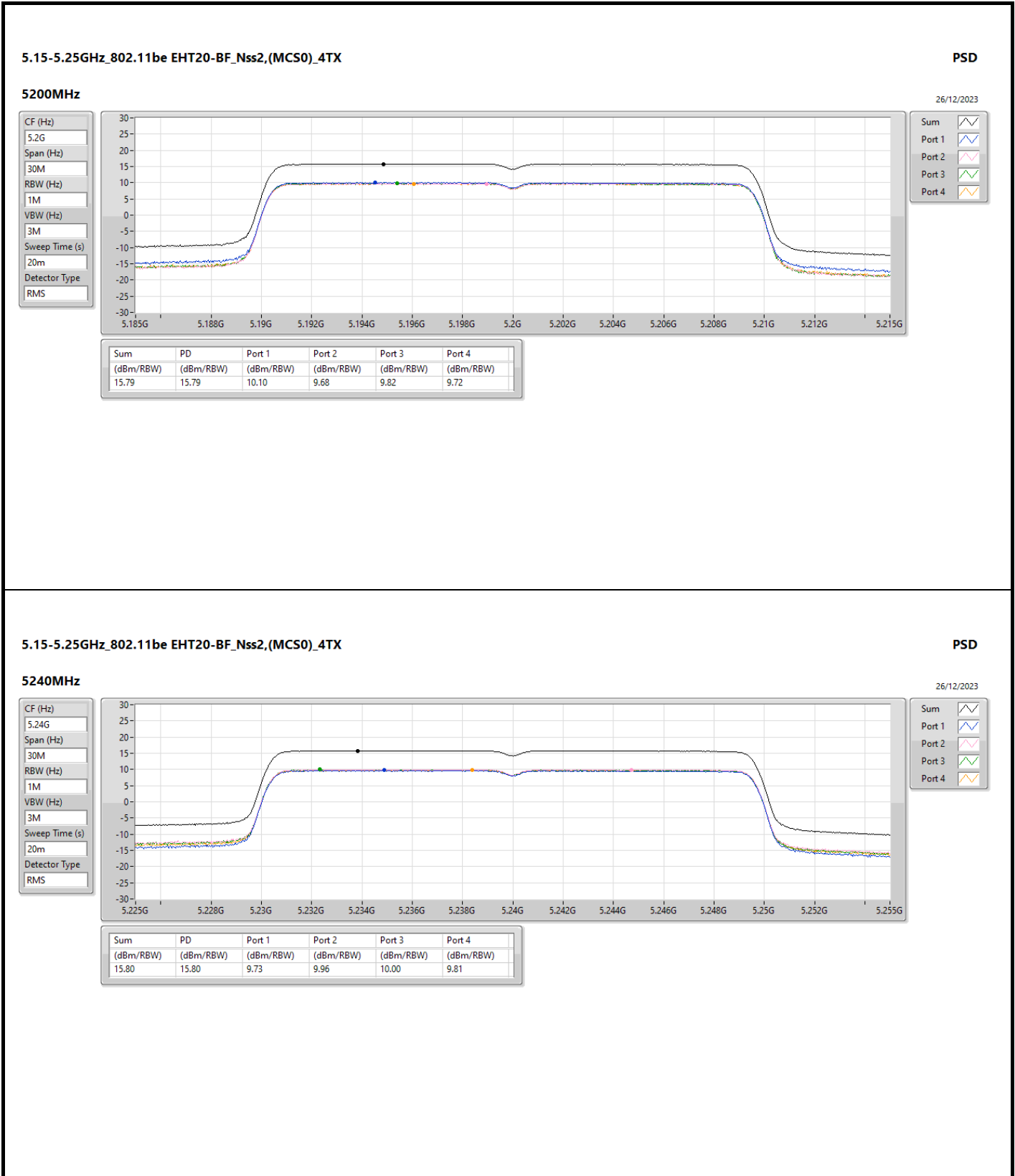


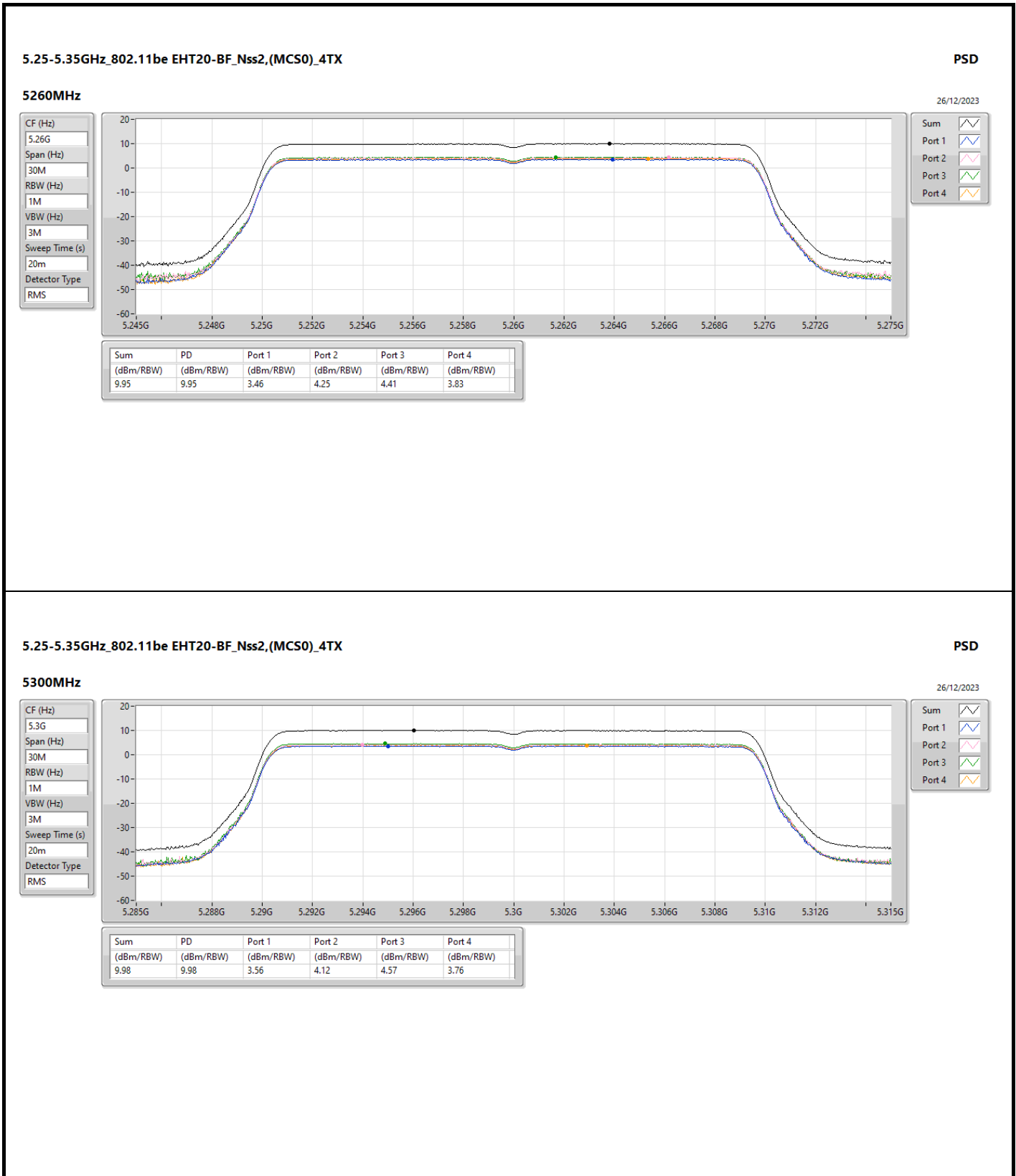


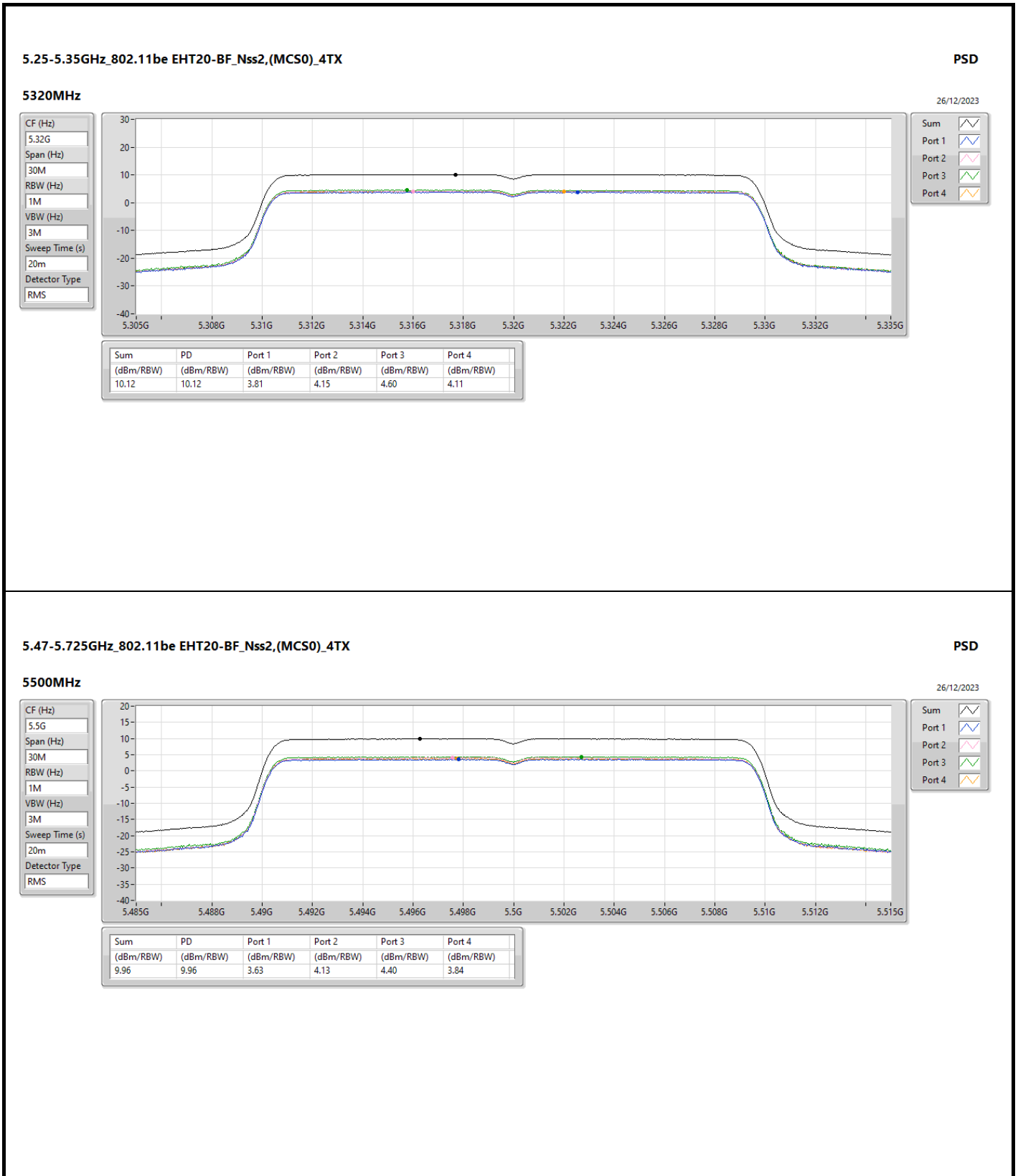


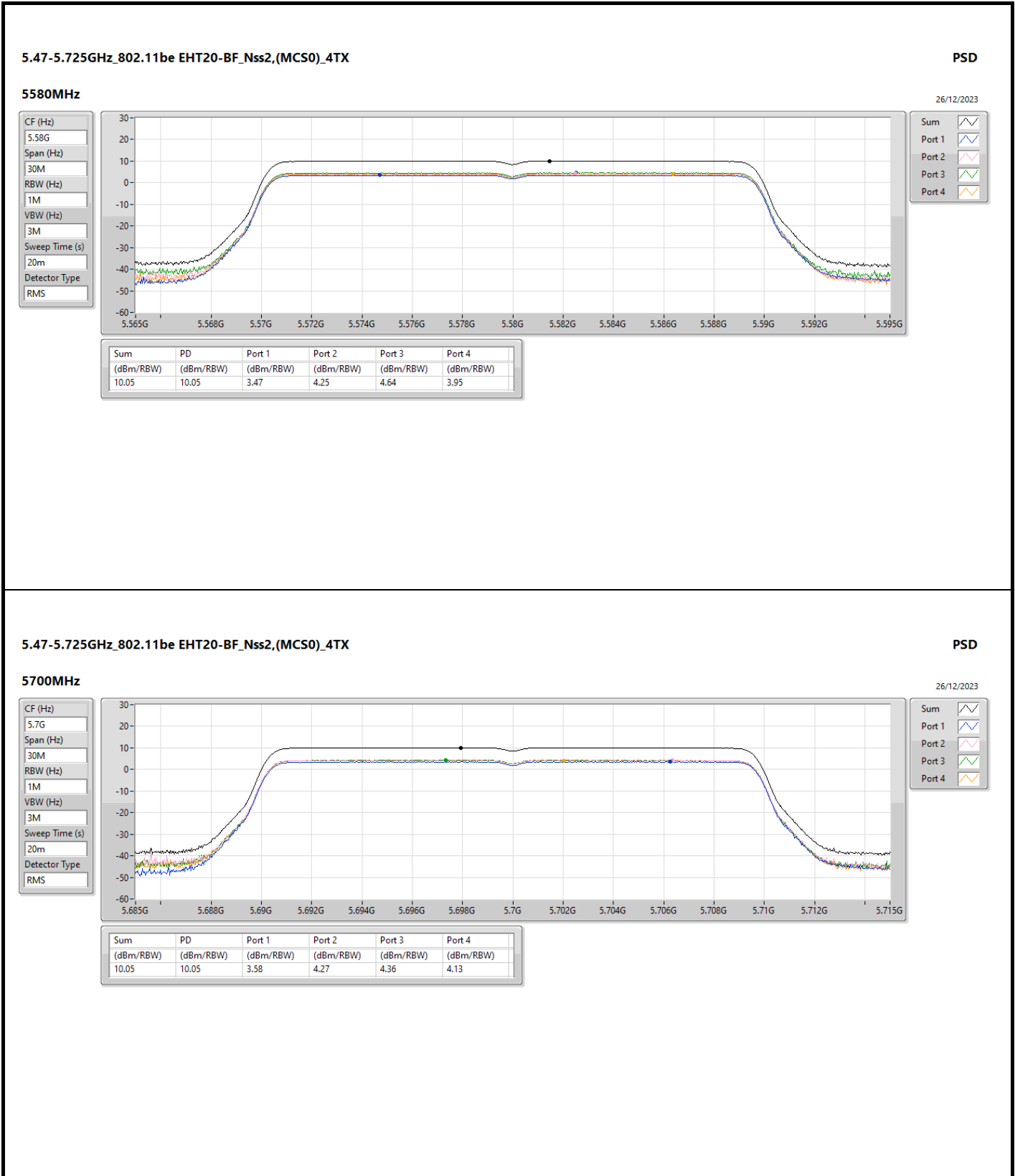


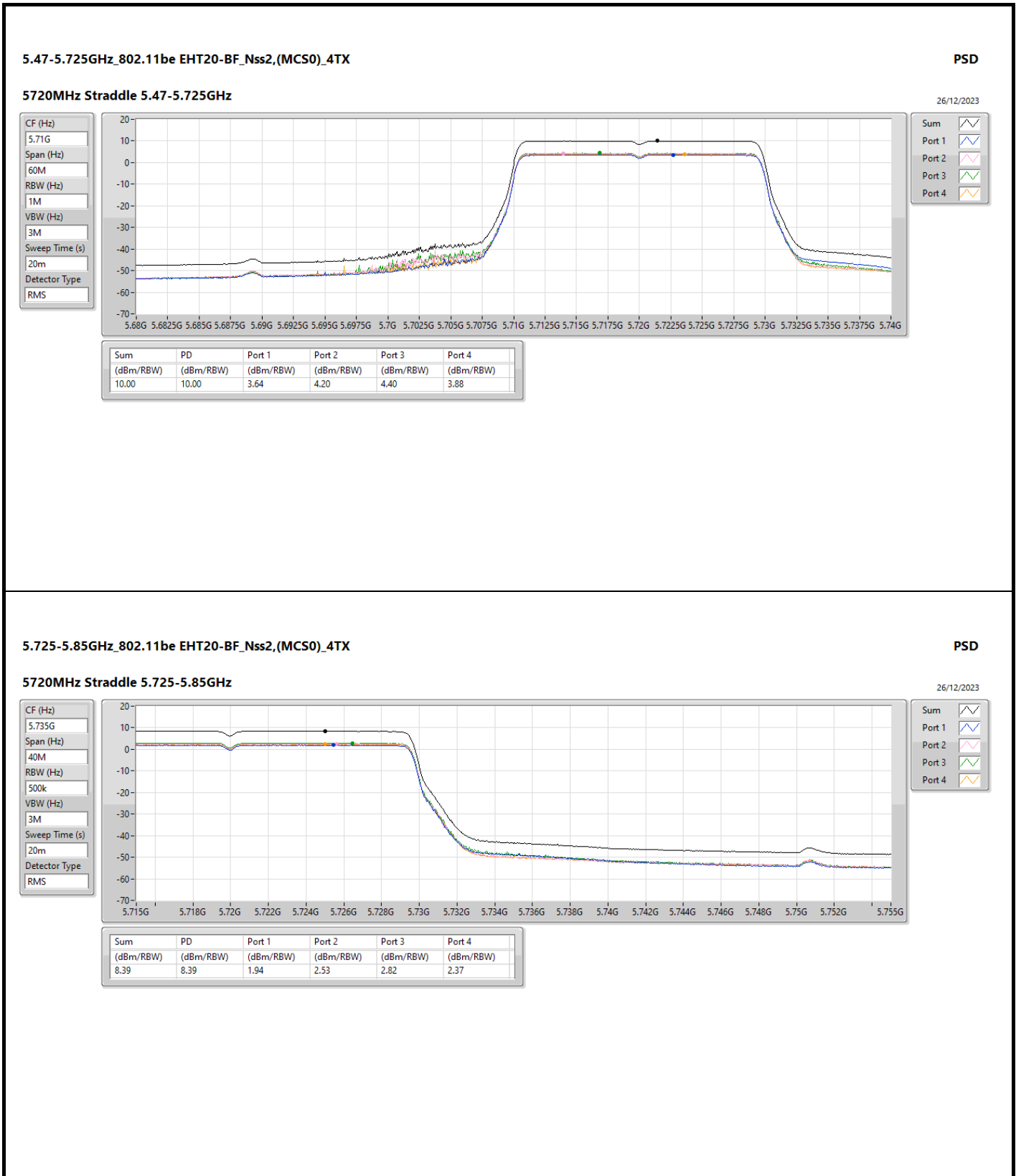


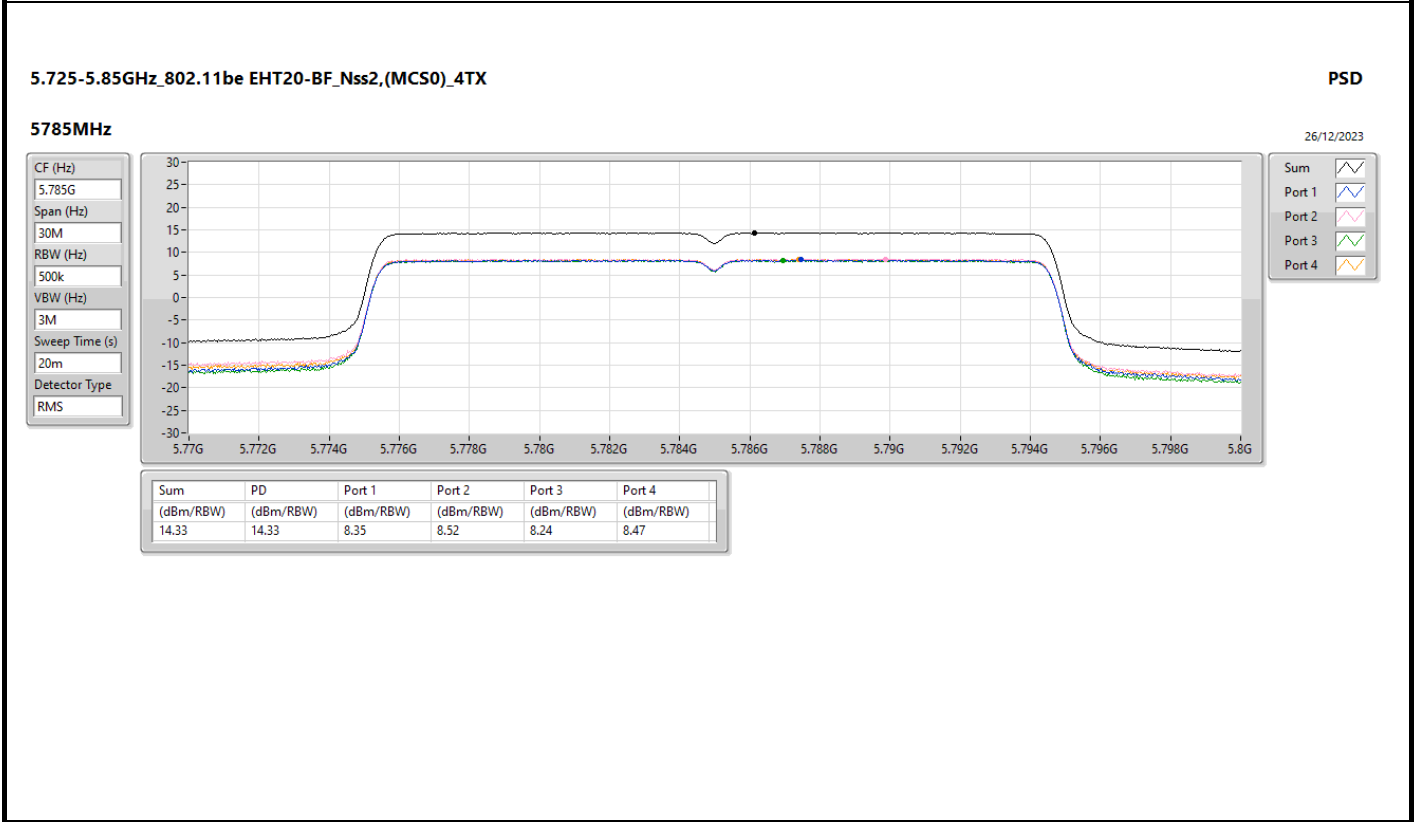
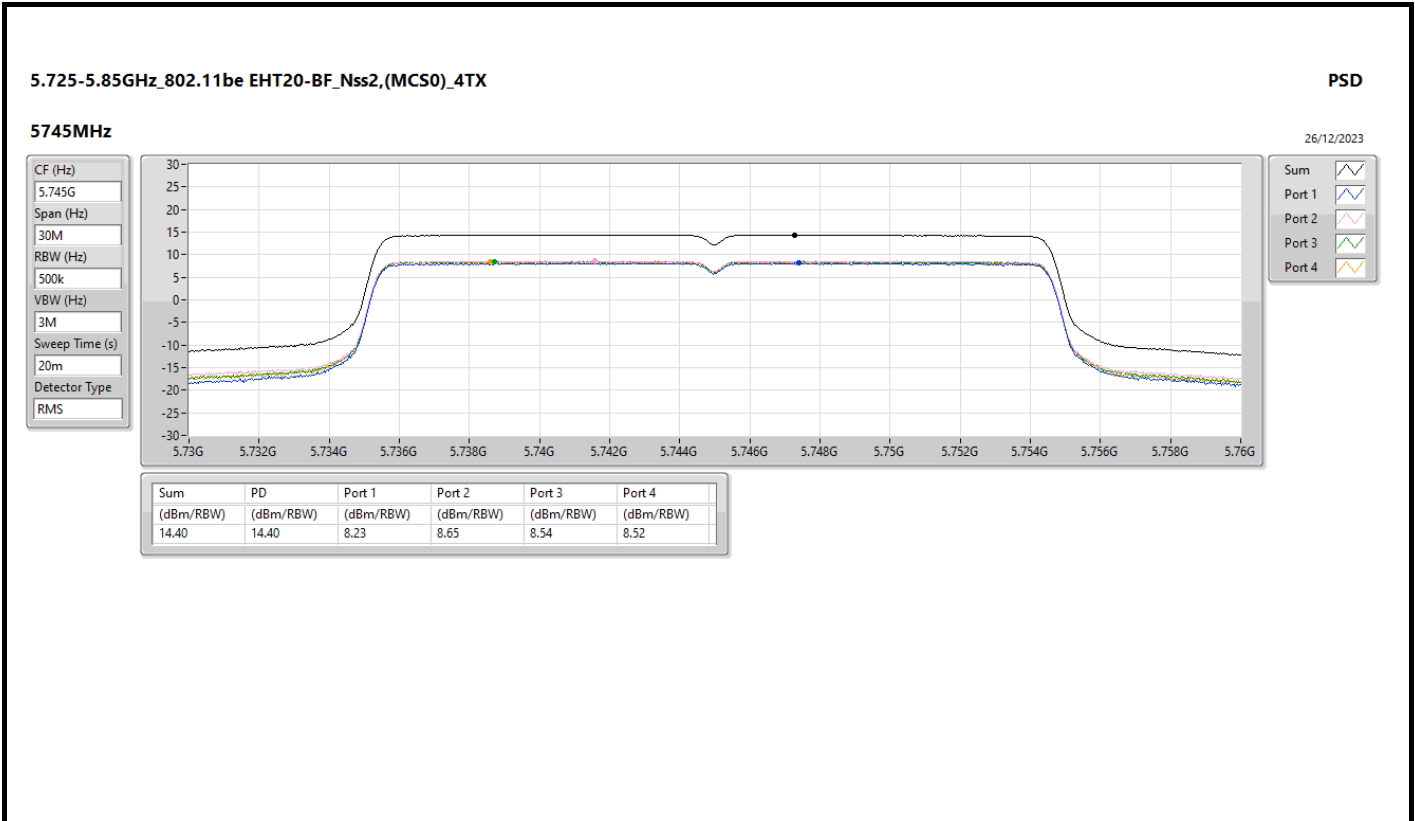


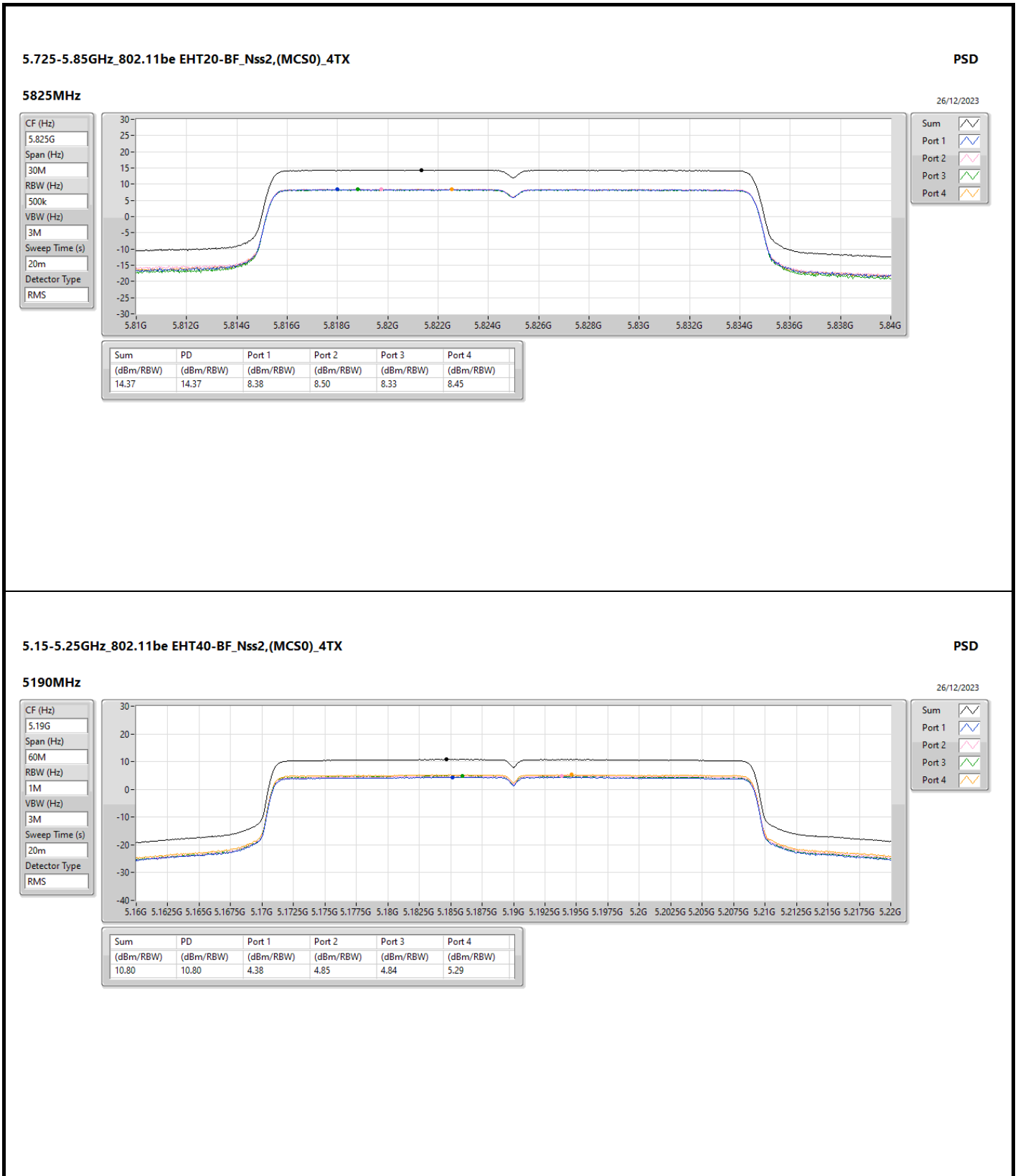


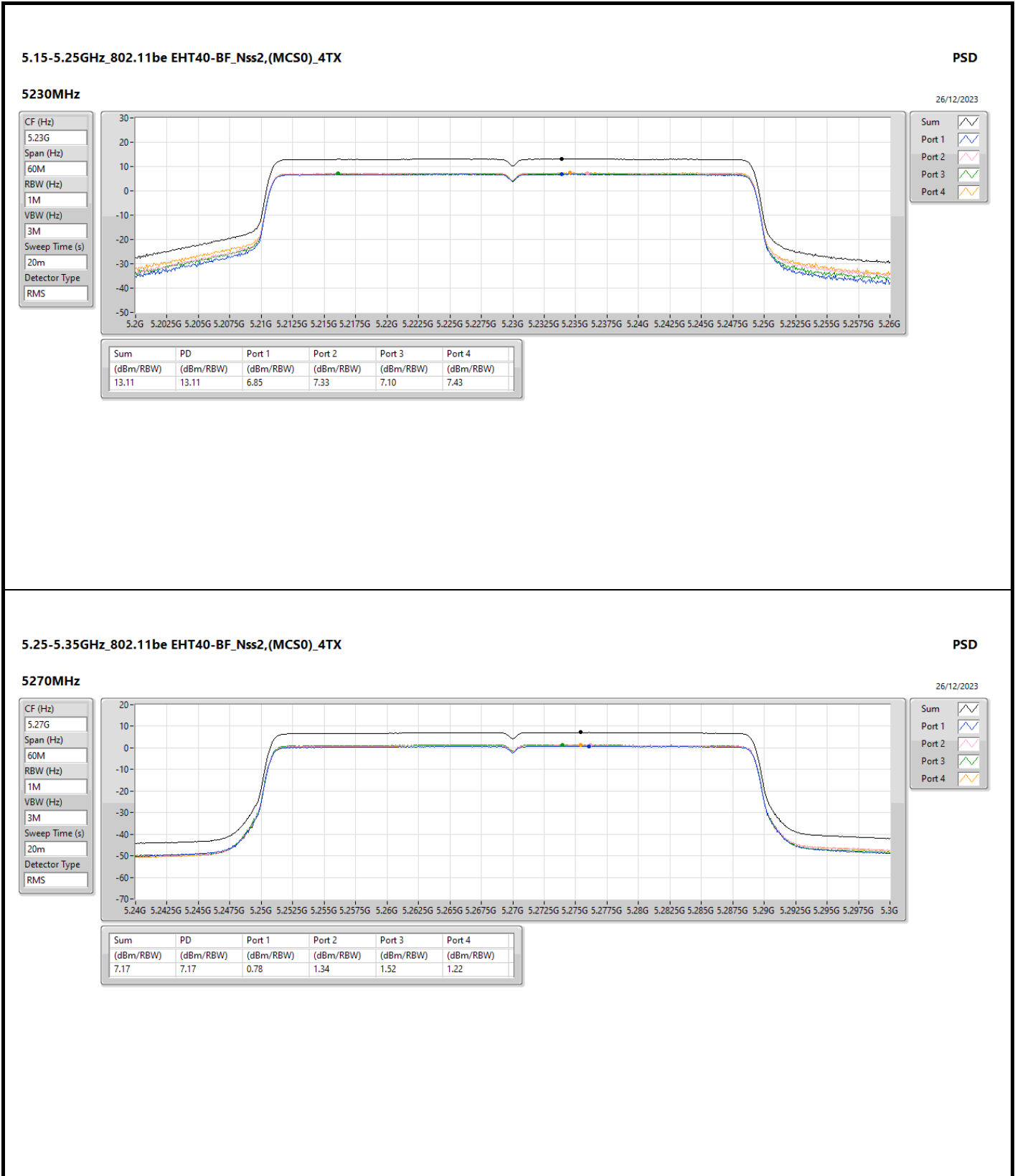


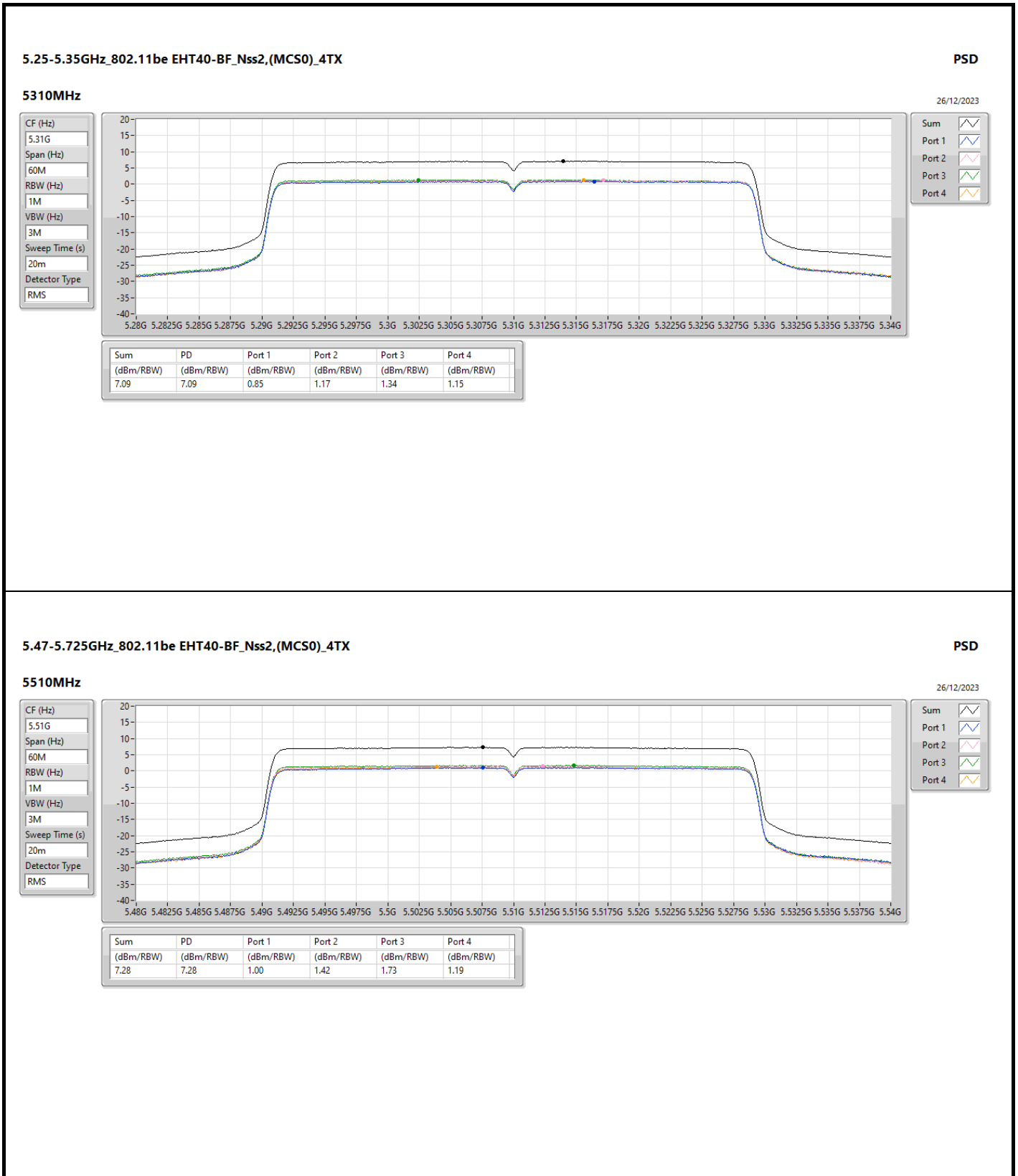




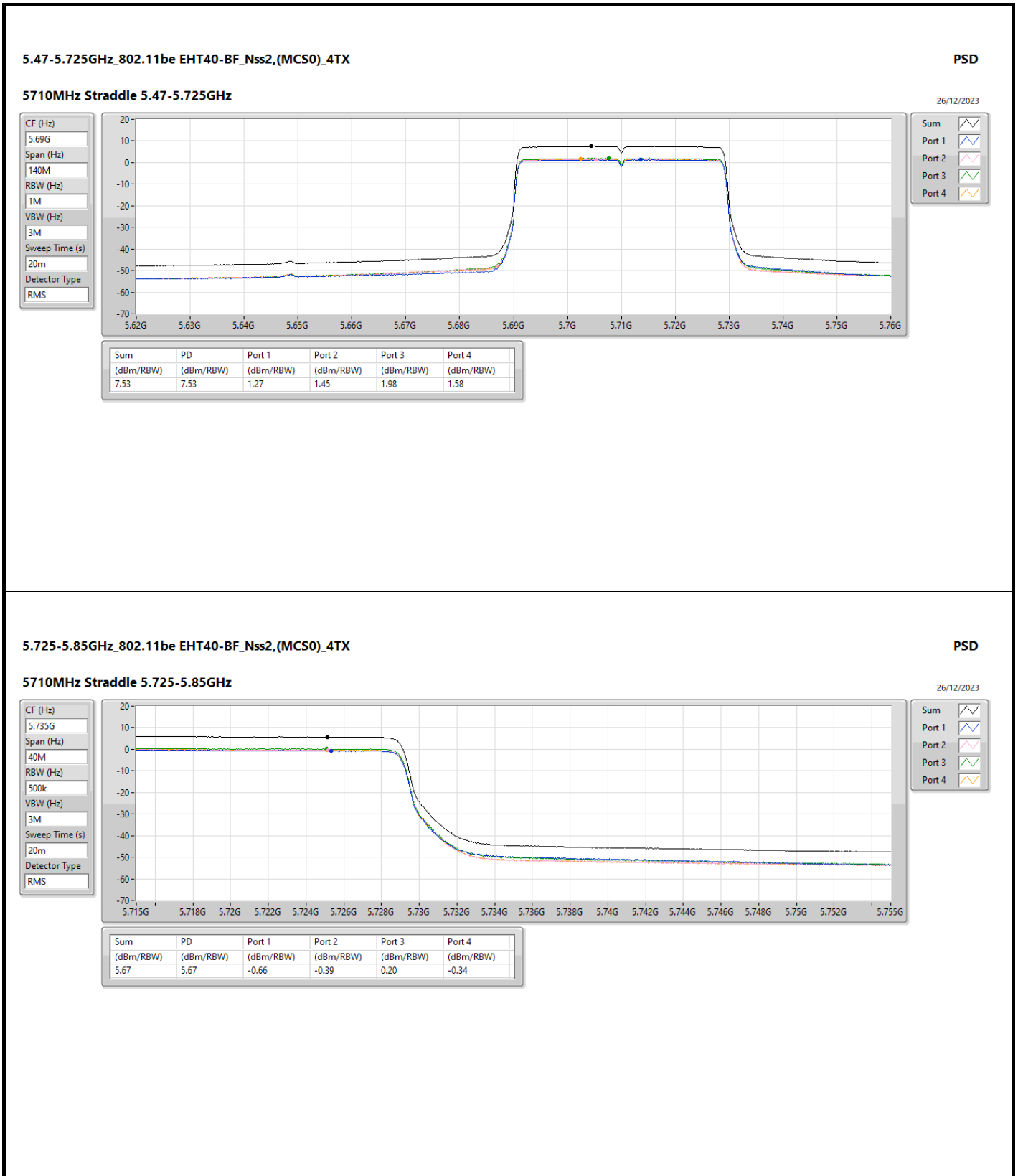


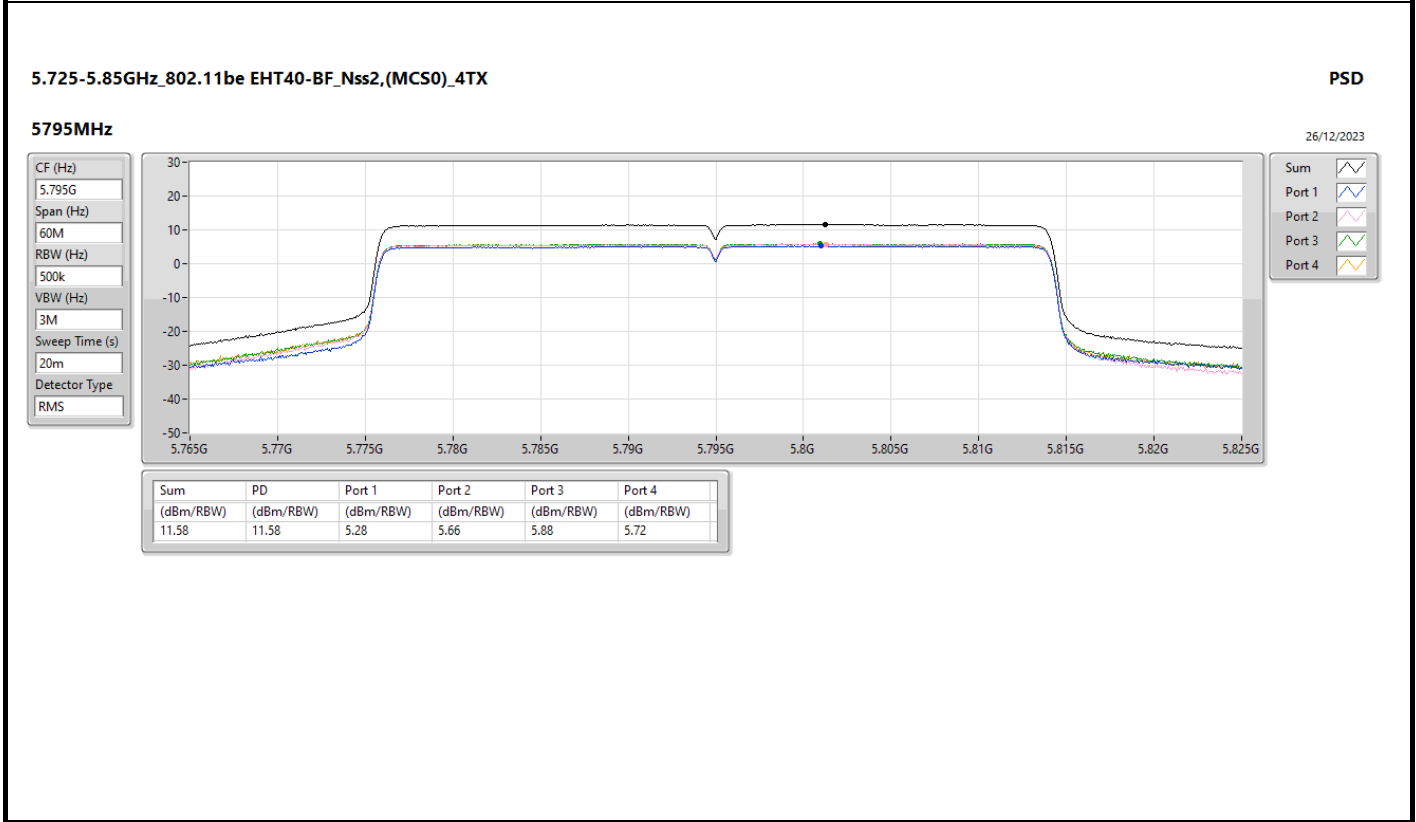
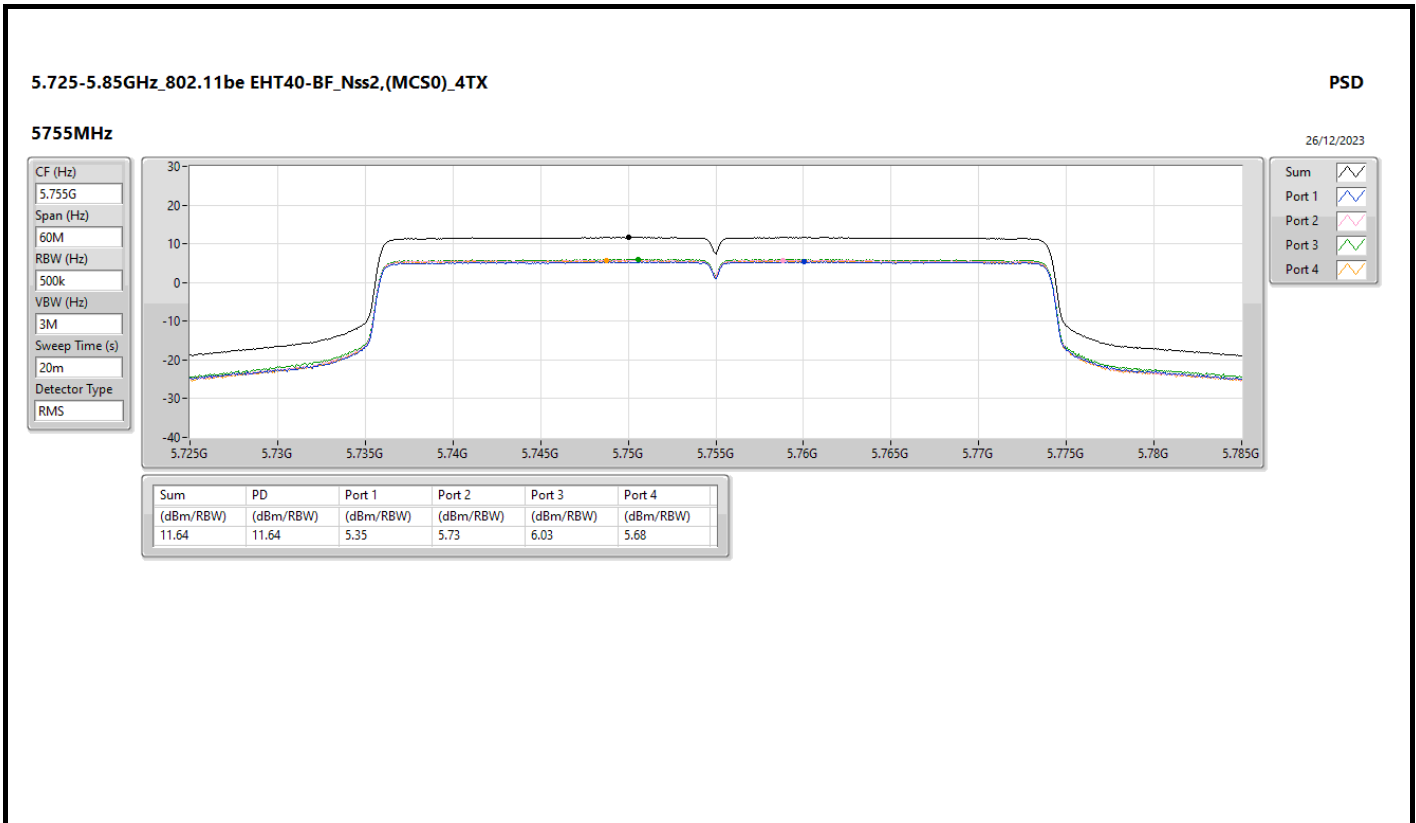








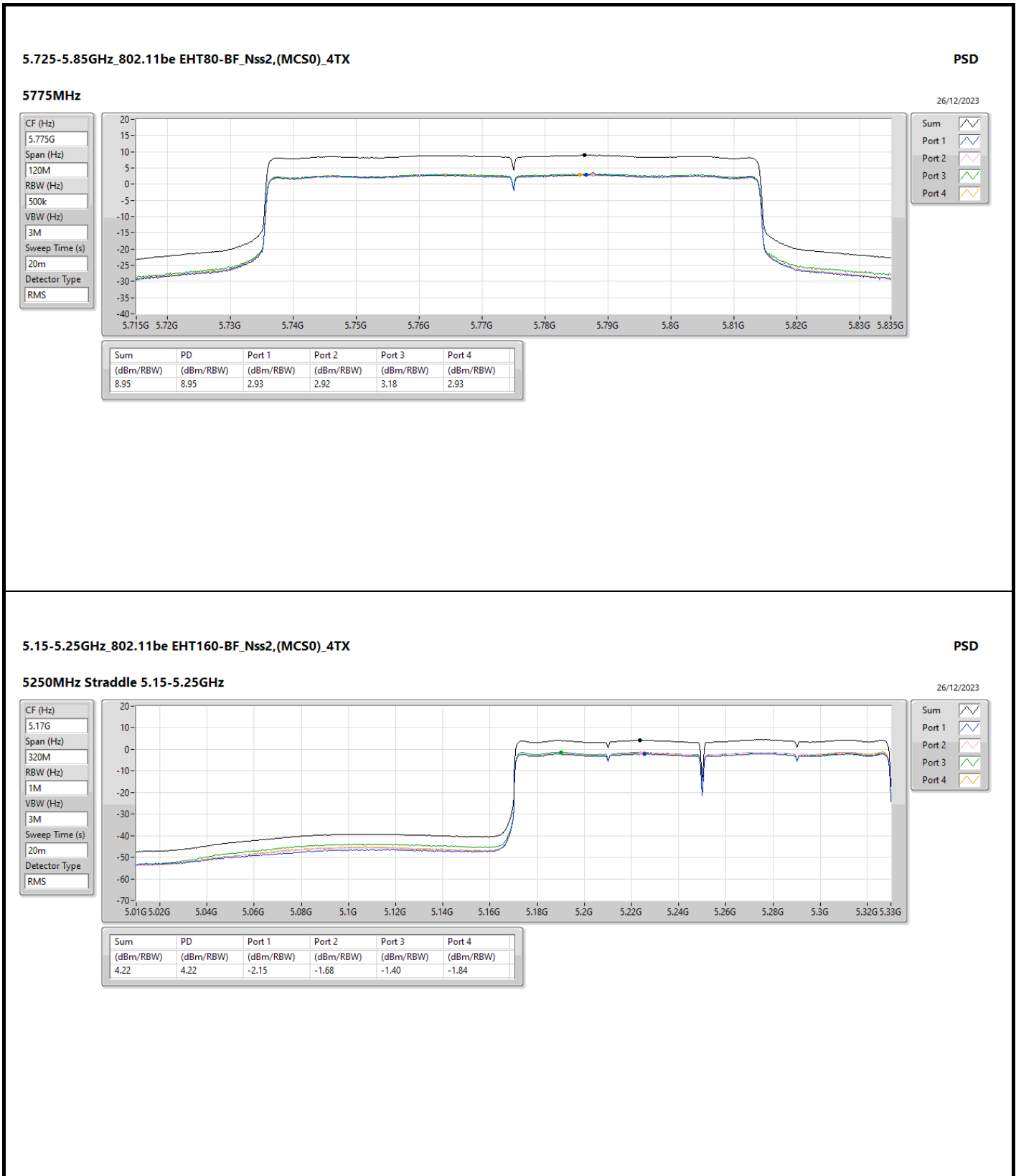












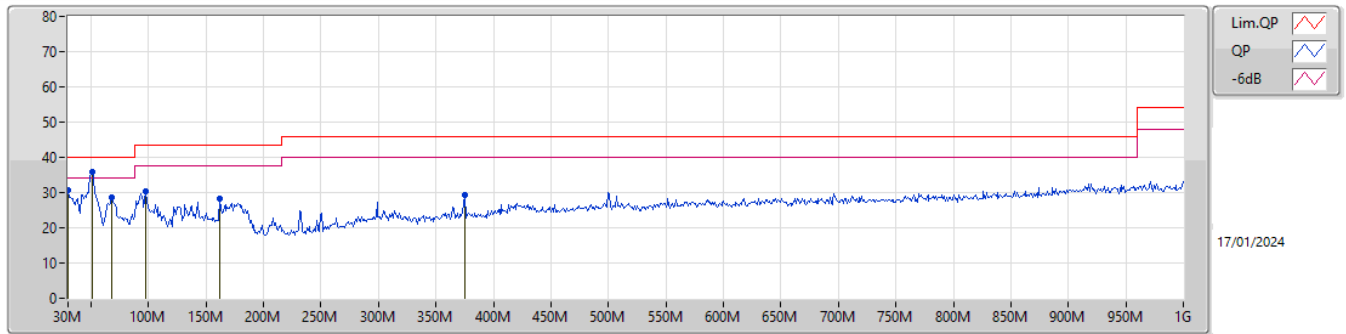




Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	51.34M	35.96	40.00	-4.04	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	30.53	40.00	-9.47	-6.67	3	Vertical	345	1.00	-	37.20	24.11	0.76	31.54
PK	67.83M	28.75	40.00	-11.25	-18.12	3	Vertical	170	1.00	-	46.87	12.33	1.46	31.91
PK	97.9M	30.27	43.50	-13.23	-13.84	3	Vertical	235	1.00	-	44.11	16.39	1.74	31.97
PK	161.92M	28.37	43.50	-15.13	-13.93	3	Vertical	125	1.00	-	42.30	15.89	2.23	32.05
PK	375.32M	29.14	46.00	-16.86	-7.89	3	Vertical	253	1.50	-	37.03	20.72	3.56	32.17
PK	51.34M	35.96	40.00	-4.04	-16.96	3	Vertical	1	1.00	"Worst"	52.92	13.63	1.29	31.88