



# RADIO TEST REPORT

**FCC ID** : O6ZHS17R2  
**Equipment** : Digital Satellite Receiver(Headless DVR Server)  
**Brand Name** : DIRECTV  
**Model Name** : HS17-500  
**Applicant** : HUMAX Co., Ltd.  
HUMAX BLDG., 2, Yeongmun-ro, Cheoin-gu ,  
Yongin-si, Gyeonggi-do, South Korea 17040  
**Manufacturer** : HUMAX Co., Ltd.  
HUMAX BLDG., 2, Yeongmun-ro, Cheoin-gu ,  
Yongin-si, Gyeonggi-do, South Korea 17040  
**Standard** : 47 CFR FCC Part 15.407

The product was received on Jan. 16, 2024, and testing was started from Jan. 30, 2024 and completed on Mar. 06, 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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**History of this test report**

Report No.	Version	Description	Issued Date
FR6O2615-06AB	01	Initial issue of report	Apr. 29, 2024



### 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/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:**

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.

**Reviewed by: Sam Chen**

**Report Producer: Cathy Chiu**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-2710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

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



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



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

**Note:**

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



**1.1.2 Antenna Information**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Airgain	N24X2H2YN-W98U	PIFA	U.FL	Note1
2	2	Airgain	N24X2H2YW-B95U	PIFA	U.FL	
3	2	Airgain	N5X35B2YN-E57U	PIFA	U.FL	
4	1	Airgain	N5X35B2YN-R137U	PIFA	U.FL	
5	3	Airgain	N5X35B2YW-G80U	PIFA	U.FL	
6	4	Airgain	N5X35BYN-A100U	PIFA	U.FL	

Note1:

Ant.	Port	Antenna Gain (dBi)				
		WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3
1	1	1.15	-	-	-	-
2	2	1.15	-	-	-	-
3	2	-	2.46	2.59	3.58	3.38
4	1	-	2.93	3.23	4.55	3.68
5	3	-	3.5	3.28	4.42	4.59
6	4	-	4.57	4.23	5.18	5.06

Ant.	Port	Directional Gain (dBi)											
		WLAN 5GHz UNII 1			WLAN 5GHz UNII 2A			WLAN 5GHz UNII 2C			WLAN 5GHz UNII 3		
		4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
3	2	5.29	4.57	4.57	4.86	4.23	4.23	6.08	5.18	5.18	5.9	5.06	5.06
4	1												
5	3												
6	4												

Note2: The above information (excepting antenna gain of 5GHz UNII 1~UNII 3) was declared by manufacturer.

Note3: 5GHz UNII 1~UNII 3: Maximum Directional Gain following KDB662911 D03.

Note4: The above information was declared by manufacturer.



Note5: 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	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log \left[ \frac{(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2}{N_{ANT}} \right] \Rightarrow 10$$

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

Where ;

$$2.4G \ G1 = 1.15 \text{ dBi} ; G2 = 1.15 \text{ dBi} ;$$

$$2.4G \ DG = 4.16 \text{ dBi}$$

**For 2.4GHz function:**

**For IEEE 802.11b/g (1TX/1RX)**

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

**For IEEE 802.11n (2TX/2RX)**

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz function:**

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

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

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



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11a_Nss 1,(6D)	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss 1,(M0)	0.979	0.09	1.488m	1k
802.11ax HEW20-BF_Nss 1,(M0)	0.975	0.11	1.488m	1k
802.11ax HEW40_Nss 1,(M0)	0.964	0.16	772.5u	3k
802.11ax HEW40-BF_Nss 1,(M0)	0.964	0.16	780.313u	3k
802.11ax HEW80_Nss 1,(M0)	0.929	0.32	401.25u	3k
802.11ax HEW80-BF_Nss 1,(M0)	0.938	0.28	412.938u	3k
802.11ax HEW160_Nss 1,(M0)	0.887	0.52	232.5u	10k
802.11ax HEW160-BF_Nss 1,(M0)	0.881	0.55	236.187u	10k

Note:

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

1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From Power Adapter		
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/> Without beamforming
	The product has beamforming function for 802.11n/ac in 5GHz.		
<b>Weather Band</b>	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/> Without 5600~5650MHz
<b>Function</b>	<input type="checkbox"/>	Outdoor P2M	<input checked="" type="checkbox"/> Indoor P2M
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/> Client
	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/> Point-to-point
<b>TPC Function</b>	<input checked="" type="checkbox"/>	With TPC	<input type="checkbox"/> Without TPC
<b>Channel Puncturing Function</b>	<input type="checkbox"/>	Supported	<input checked="" type="checkbox"/> Unsupported
<b>Support RU</b>	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/> Partial RU
<b>Test Software Version</b>	For Non-beamforming mode: accessMtool 3.2.0.2 For Beamforming mode: DOS [ver 6.1.7601]		

Note: 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 D03 v01
- ◆ FCC KDB 412172 D01 v01r01
- ◆ FCC KDB 414788 D01 v01r01

### 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	KJ Chang	21.5~22.1 / 68~68	Jan. 30, 2024~ Jan. 31, 2024
Radiated (Below 1GHz)	03CH04-CB	Stim Song	21.4-22.5 / 55-58	Feb. 28, 2024~ Mar. 05, 2024
	03CH06-CB	Stim Song	21.9-22.4 / 55-58	Feb. 28, 2024~ Mar. 05, 2024
Radiated (Above 1GHz)	03CH02-CB	Stim Song	22.6-23 / 55-60	Jan. 29, 2024~ Jan. 30, 2024
AC Conduction	CO01-CB	Bob Chang	22~23 / 50~51	Mar. 06, 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
802.11ax HEW20_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
802.11ax HEW40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11ax HEW80_Nss1,(MCS0)_4TX



5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11ax HEW160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11ax HEW20-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
802.11ax HEW40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11ax HEW80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11ax HEW160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz



Note:

- ♦ Evaluated HEW20/HEW40/HEW80/HEW160 mode only, due to similar modulation. The power setting of HT20/HT40/HT80/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.

## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	EUT + WLAN 2.4GHz
2	EUT + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Unwanted Emissions
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	CTX
After evaluating, and the worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Y axis + WLAN 2.4GHz
2	EUT in Y axis + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
After evaluating, and the worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Y axis + WLAN 5GHz



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
Refer to Sporton Test Report No.: FA6O2615-06 for Co-location RF Exposure Evaluation.	

### 2.3 EUT Operation during Test

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

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

### 2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	DIRECTV	EPS17R0-15	INPUT: 120 V ~ 1.8 A, 60Hz OUTPUT: 25.2 V, 2.86 A, 72W

### 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	PP13S	N/A
B	Flash disk3.0	Transcend	JetFlash-703	N/A
C	Sim Card	DIRECTV	N/A	N/A





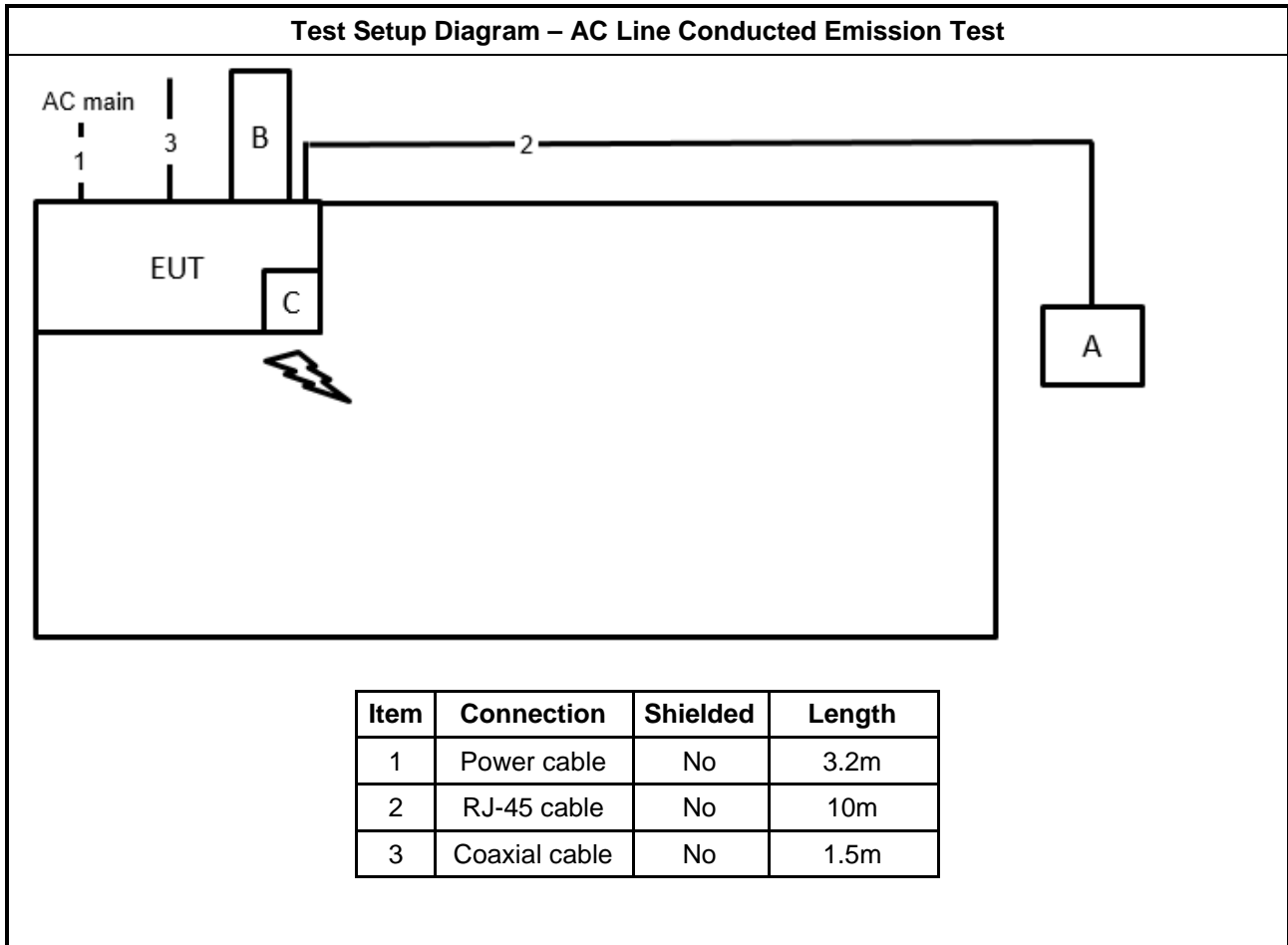
**For Radiated (below 1GHz), Radiated (above 1GHz) / Non-beamforming mode and RF Conducted:**

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

**For Radiated (above 1GHz) / Beamforming mode:**

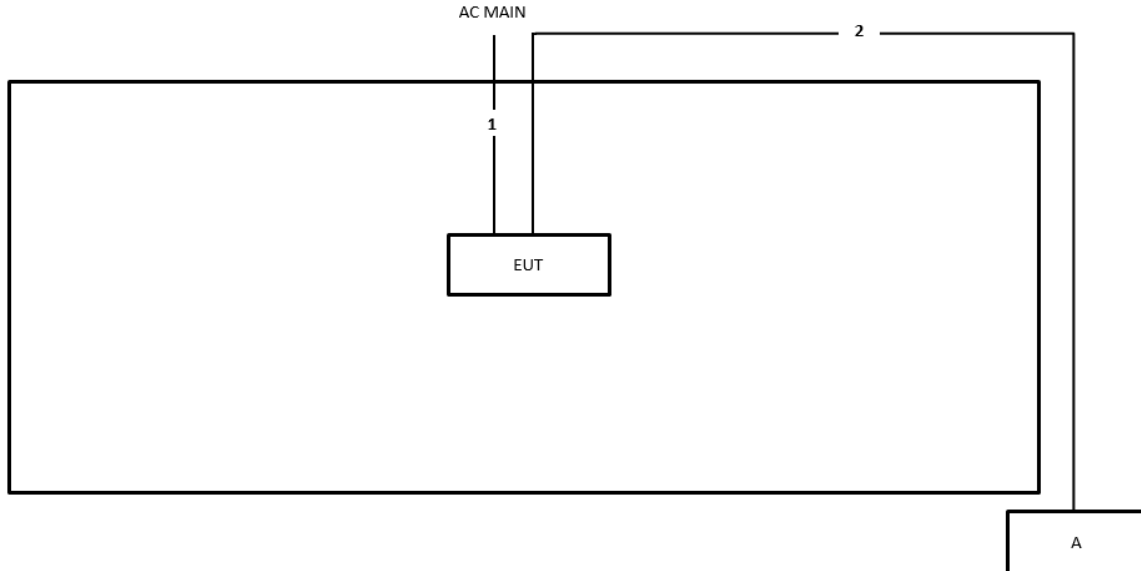
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	AP Router	ASUS	RT-AX88U	MSQ-RTAXPHP00

## 2.6 Test Setup Diagram

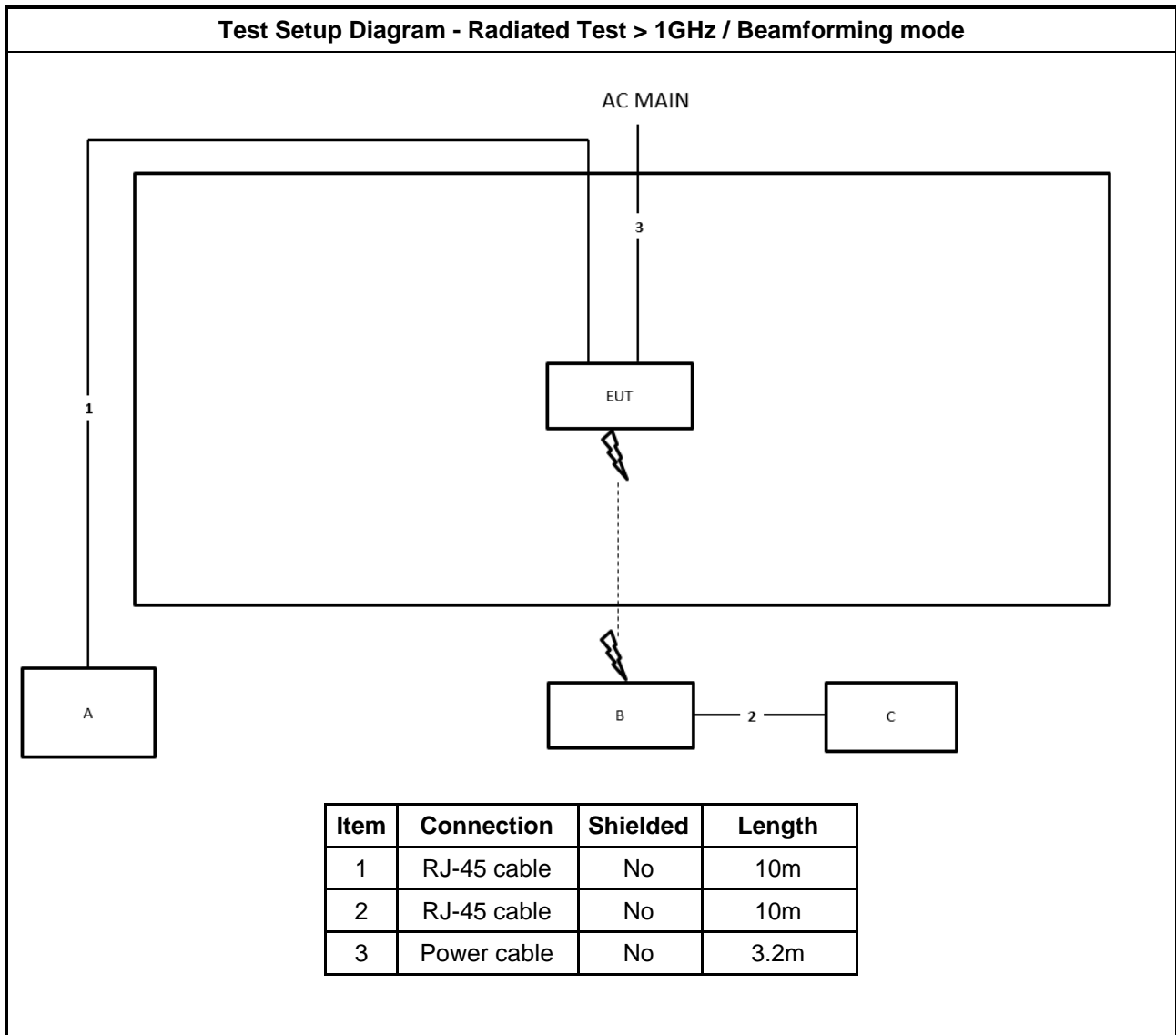




**Test Setup Diagram - Radiated Test < 1GHz and Radiated Test > 1GHz / Non-beamforming mode**



Item	Connection	Shielded	Length
1	Power cable	No	3.2m
2	RJ-45 cable	No	10m





### 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.

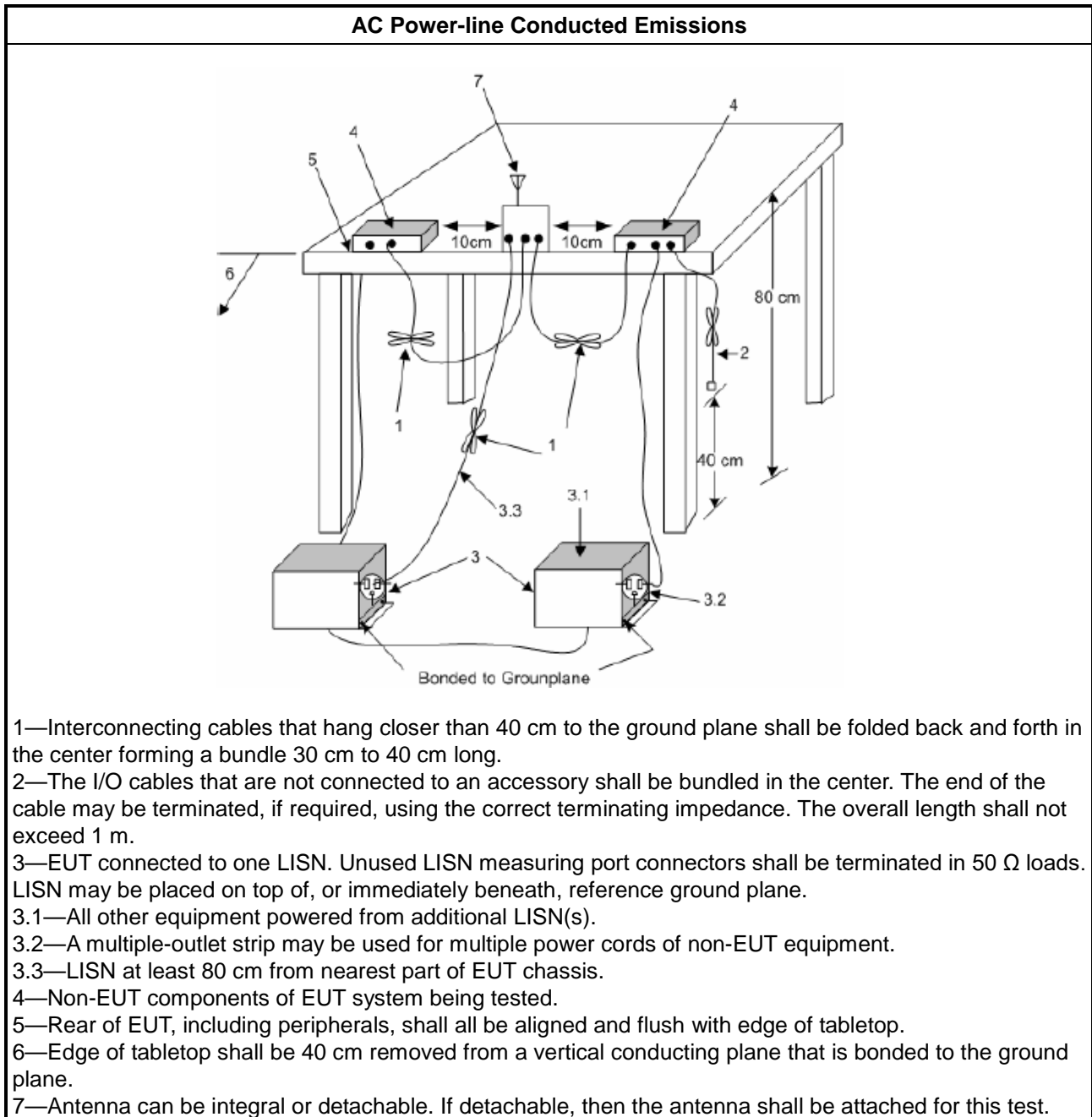
##### 3.1.2 Measuring Instruments

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	
<b>UNII Devices</b>	
<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.
<b>LE-LAN Devices</b>	
<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.

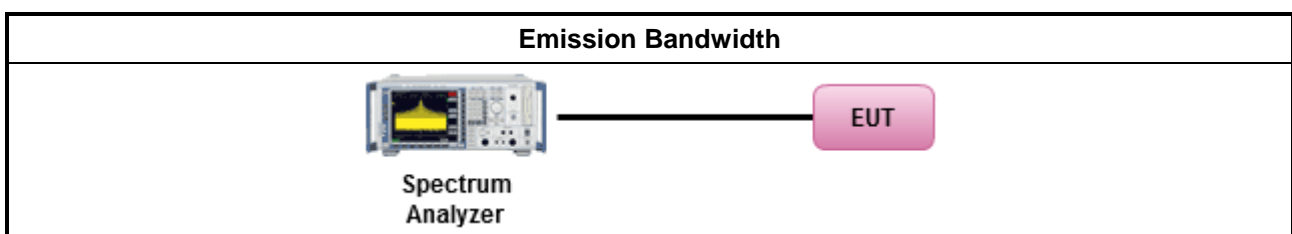
#### 3.2.2 Measuring Instruments

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"> <li>▪ 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> </li> </ul>		<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	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125mW</math> [21dBm]</li> <li>Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul>
<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 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 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:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>For other devices: The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.</li> <li>Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.</li> </ul>
<input type="checkbox"/> For the 5.25-5.35 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>For other devices: The maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz</li> <li>Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.</li> </ul>
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	



<ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>
$P_{Out}$ = maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.

### 3.3.2 Measuring Instruments

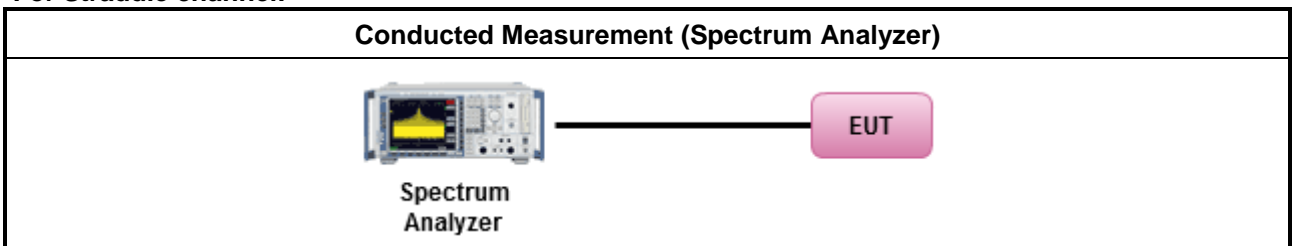
Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

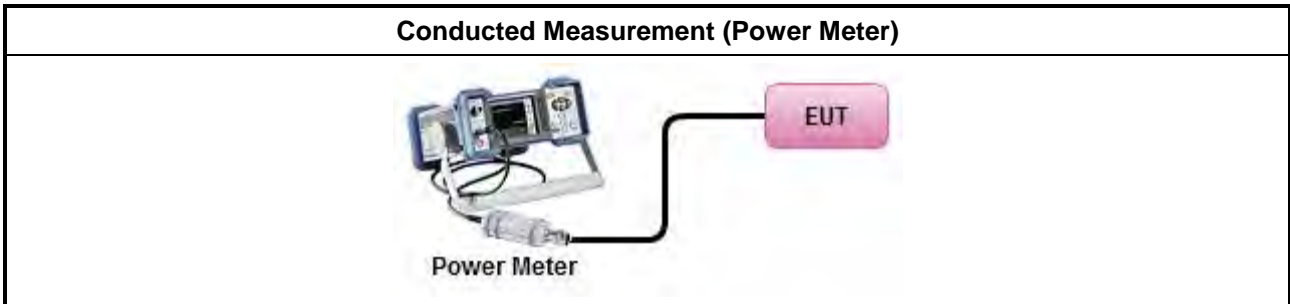
Test Method	
Average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF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

### 3.3.4 Test Setup

For Straddle channel:



For Other tests:



### 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	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul>
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ 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) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) $\leq 10$ dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz.	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where <math>\theta</math> is the angle above the local horizontal plane (of the Earth) as shown below:  -13 dBW/MHz for <math>0^\circ \leq \theta &lt; 8^\circ</math> ; -13 - 0.716 (<math>\theta-8</math>) dBW/MHz for <math>8^\circ \leq \theta &lt; 40^\circ</math>  -35.9 - 1.22 (<math>\theta-40</math>) dBW/MHz for <math>40^\circ \leq \theta \leq 45^\circ</math> ; -42 dBW/MHz for <math>\theta &gt; 45^\circ</math></li> </ul>
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<b>PPSD</b> = 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 <b>G<sub>TX</sub></b> = 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.

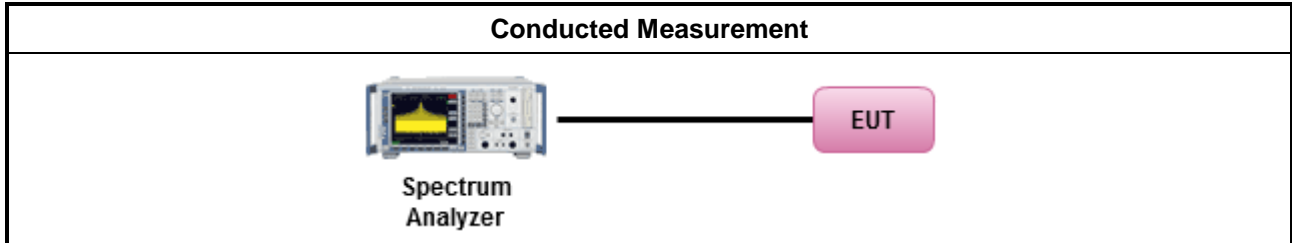


**3.4.3 Test Procedures**

Test Method	
<ul style="list-style-type: none"> <li>▪ 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:</li> </ul>	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth [duty cycle ≥ 98% or external video / power trigger]
<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"> <li>▪ If the EUT supports multiple transmit chains using options given below:</li> </ul>	
<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"> <li>▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods:  <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math>            (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>	
<input type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"</li> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>	

Test Method	
	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).

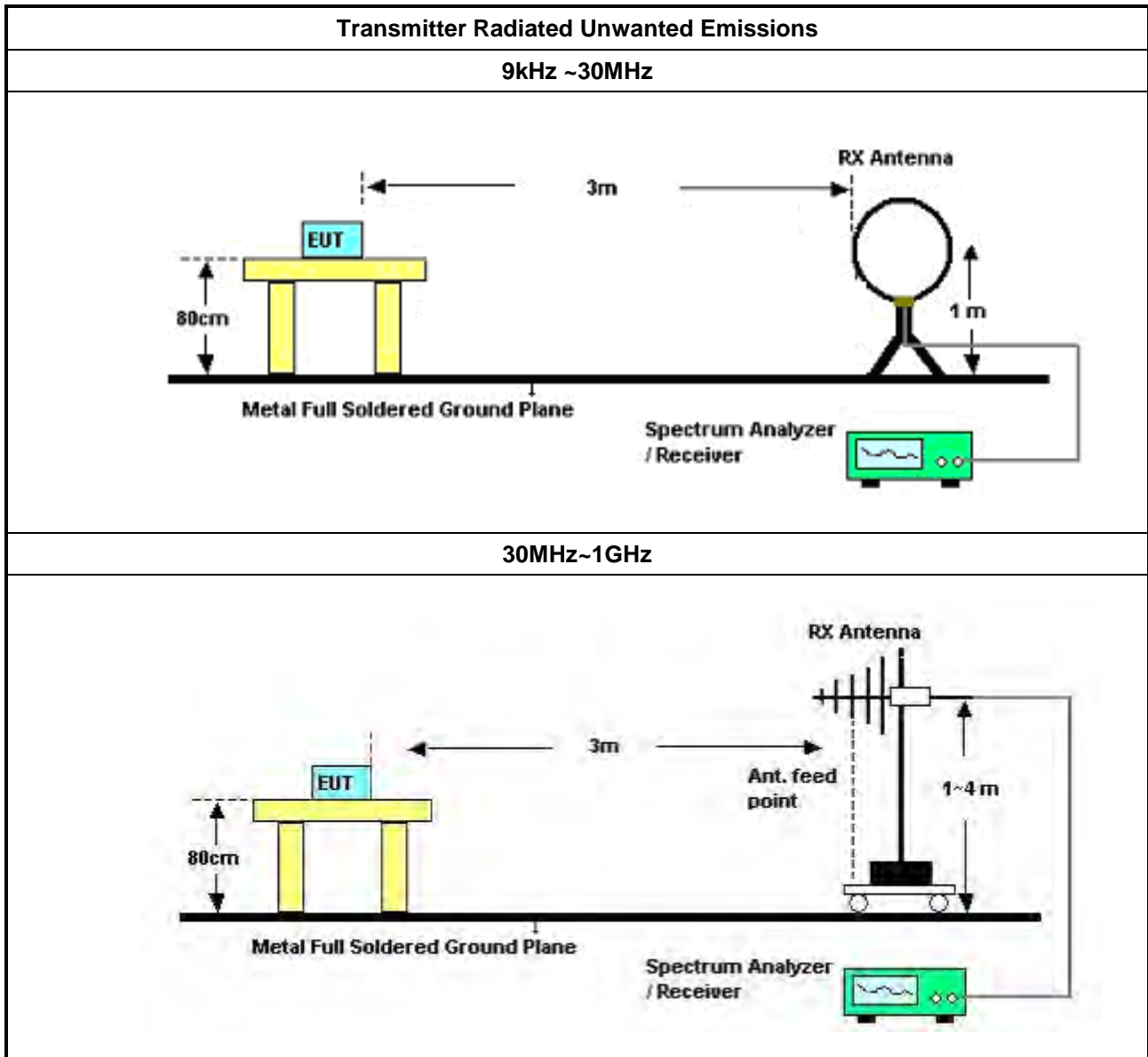
### 3.5.2 Measuring Instruments

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

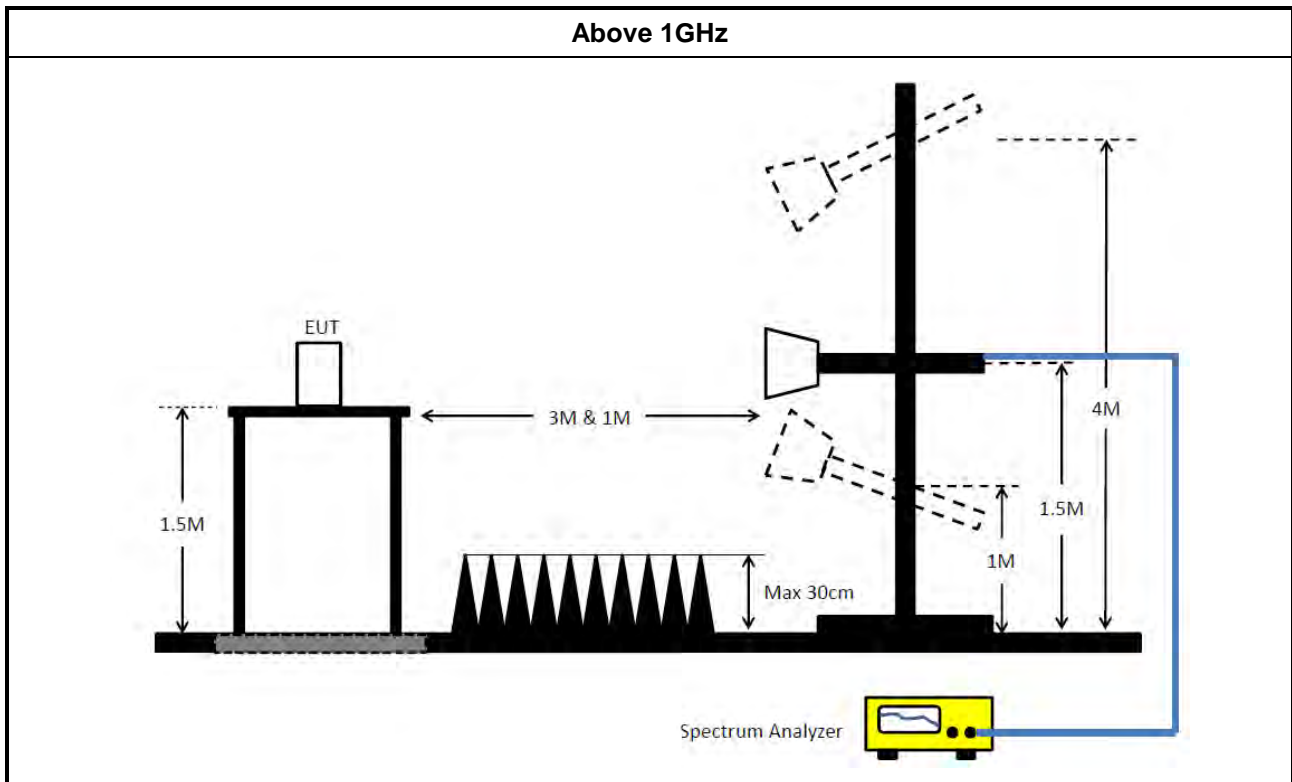
### 3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ 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).</li> </ul>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.</li> </ul>
<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.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For radiated measurement.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>
<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>	

**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	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	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. 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 (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N 0607	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 23, 2023	May 22, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz ~ 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-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)
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)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 03, 2023	Nov. 02, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH01-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)



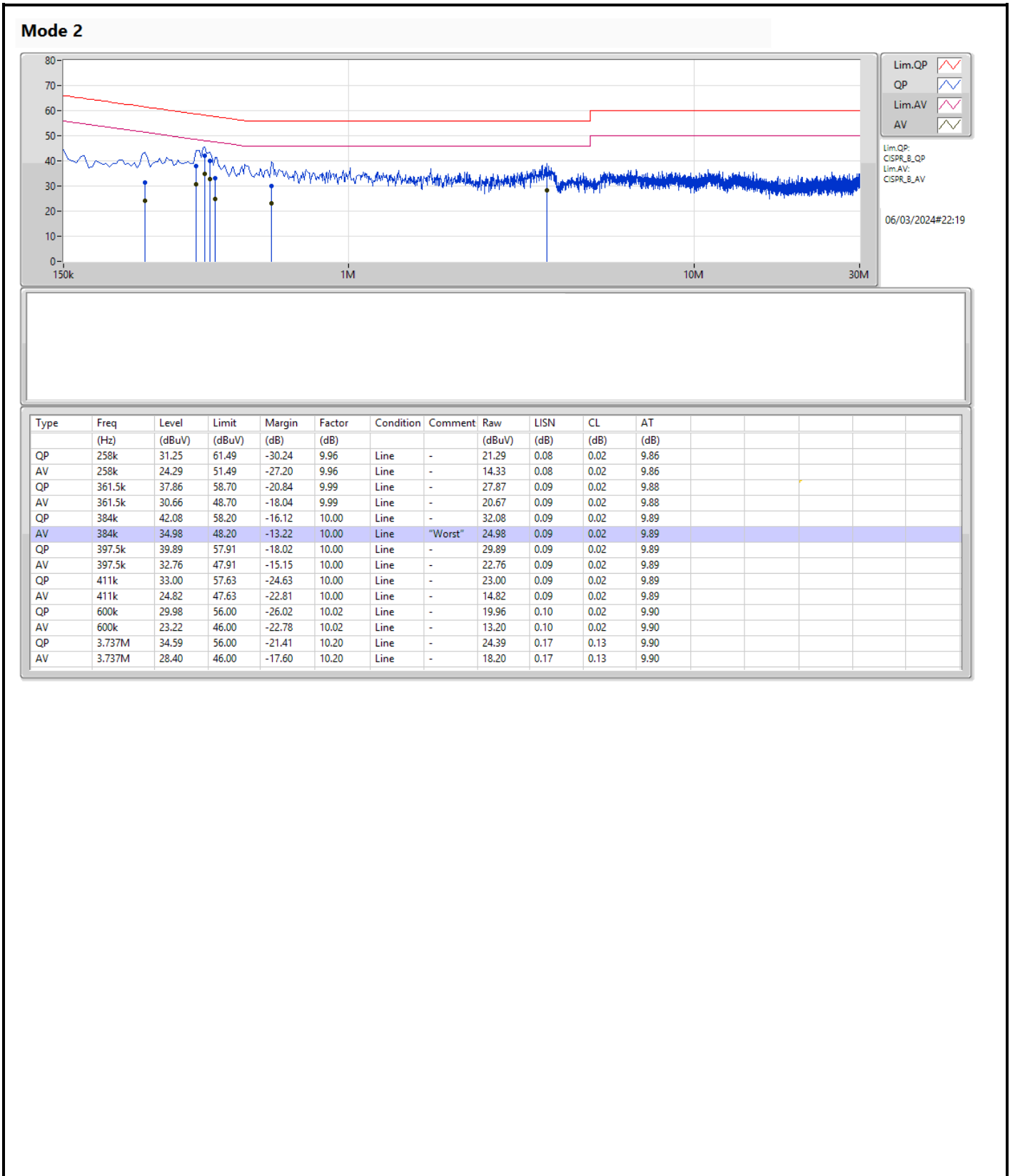
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91702 52	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 29, 2023	May 28, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 –26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

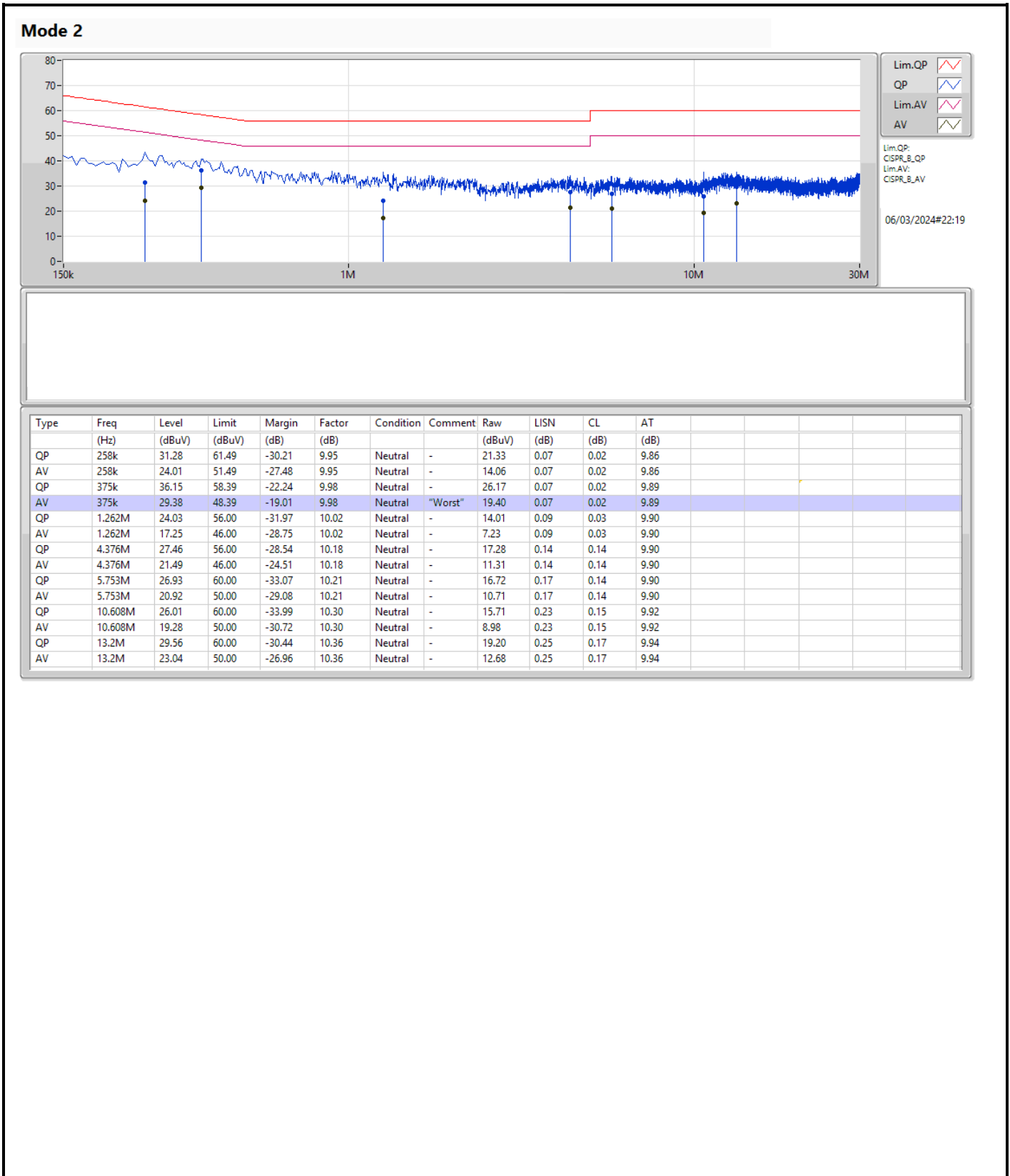
Note: Calibration Interval of instruments listed above is one year.  
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	384k	34.98	48.20	-13.22	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	16.8M	16M8D1D	20.57M	16.492M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.285M	19.14M	19M1D1D	20.515M	18.916M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.32M	19.14M	19M1D1D	20.625M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	39.82M	37.781M	37M8D1D	39.16M	37.531M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	39.82M	37.731M	37M7D1D	39.05M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	80.3M	77.261M	77M3D1D	78.98M	77.061M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	80.3M	77.261M	77M3D1D	79.42M	76.962M
802.11ax HEW160_Nss1,(MCS0)_4TX	79.76M	77.321M	77M3D1D	79.28M	77.081M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	79.52M	77.321M	77M3D1D	79.36M	77.161M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.955M	16.822M	16M8D1D	20.405M	16.448M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.395M	19.14M	19M1D1D	20.405M	18.916M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.395M	19.115M	19M1D1D	20.625M	18.916M
802.11ax HEW40_Nss1,(MCS0)_4TX	39.82M	37.731M	37M7D1D	39.27M	37.581M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	39.93M	37.781M	37M8D1D	39.38M	37.531M
802.11ax HEW80_Nss1,(MCS0)_4TX	79.2M	77.161M	77M2D1D	78.76M	76.962M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	79.2M	77.261M	77M3D1D	78.76M	77.061M
802.11ax HEW160_Nss1,(MCS0)_4TX	80.24M	77.641M	77M6D1D	79.44M	77.161M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	80.48M	77.401M	77M4D1D	80M	77.161M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.065M	16.712M	16M7D1D	15.255M	13.208M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.56M	19.04M	19MOD1D	15.03M	14.408M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.45M	19.065M	19M1D1D	15.24M	14.378M
802.11ax HEW40_Nss1,(MCS0)_4TX	39.93M	37.681M	37M7D1D	34.405M	33.583M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	39.93M	37.781M	37M8D1D	34.37M	33.618M
802.11ax HEW80_Nss1,(MCS0)_4TX	79.42M	77.261M	77M3D1D	74.25M	73.088M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	79.2M	77.361M	77M4D1D	74.4M	73.088M
802.11ax HEW160_Nss1,(MCS0)_4TX	160.16M	156.122M	156MD1D	158.84M	155.922M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	160.16M	156.122M	156MD1D	159.28M	156.122M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.555M	16.998M	17MOD1D	3.26M	3.718M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.14M	19.215M	19M2D1D	4.54M	4.538M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.25M	19.19M	19M2D1D	4.52M	4.558M
802.11ax HEW40_Nss1,(MCS0)_4TX	38.17M	37.781M	37M8D1D	3.92M	4.078M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	38.06M	37.831M	37M8D1D	3.68M	4.078M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.66M	77.261M	77M3D1D	3.54M	4.098M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.88M	77.061M	77M1D1D	3.84M	4.078M

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	20.9M	16.602M	20.79M	16.558M	20.79M	16.646M	20.57M	16.536M
5200MHz	Pass	Inf	21.065M	16.558M	20.9M	16.69M	20.845M	16.492M	22.88M	16.712M
5240MHz	Pass	Inf	20.955M	16.8M	21.34M	16.8M	22M	16.558M	20.955M	16.8M
5260MHz	Pass	Inf	20.735M	16.8M	20.405M	16.646M	20.625M	16.69M	20.735M	16.448M
5300MHz	Pass	Inf	20.68M	16.58M	20.68M	16.602M	20.79M	16.602M	20.955M	16.58M
5320MHz	Pass	Inf	20.955M	16.822M	20.9M	16.536M	20.955M	16.756M	20.845M	16.47M
5500MHz	Pass	Inf	20.46M	16.514M	20.515M	16.58M	20.79M	16.558M	21.065M	16.514M
5580MHz	Pass	Inf	20.79M	16.602M	20.9M	16.624M	20.955M	16.514M	20.9M	16.646M
5700MHz	Pass	Inf	21.01M	16.624M	20.13M	16.712M	20.68M	16.69M	20.625M	16.646M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.435M	13.358M	15.375M	13.448M	15.3M	13.253M	15.255M	13.208M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.28M	3.778M	3.26M	3.998M	3.26M	3.818M	3.28M	3.718M
5745MHz	Pass	500k	16.555M	16.492M	16.555M	16.514M	16.555M	16.69M	16.445M	16.602M
5785MHz	Pass	500k	16.555M	16.602M	16.335M	16.69M	16.555M	16.844M	16.555M	16.734M
5825MHz	Pass	500k	16.5M	16.558M	16.28M	16.998M	16.555M	16.558M	16.555M	16.536M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.065M	18.966M	21.12M	18.941M	20.735M	19.14M	20.68M	18.916M
5200MHz	Pass	Inf	21.065M	19.015M	20.9M	19.065M	21.175M	18.991M	21.285M	19.015M
5240MHz	Pass	Inf	20.57M	19.065M	21.12M	18.991M	20.845M	19.04M	20.515M	18.966M
5260MHz	Pass	Inf	21.285M	18.916M	20.79M	19.015M	20.845M	18.916M	21.175M	19.065M
5300MHz	Pass	Inf	21.395M	18.966M	20.405M	18.941M	21.12M	19.14M	20.955M	19.065M
5320MHz	Pass	Inf	21.23M	18.966M	21.01M	18.916M	20.625M	19.015M	20.625M	18.941M
5500MHz	Pass	Inf	20.79M	18.916M	21.065M	19.04M	21.01M	19.015M	20.955M	18.941M
5580MHz	Pass	Inf	21.175M	18.916M	21.56M	19.015M	20.845M	18.991M	20.57M	19.015M
5700MHz	Pass	Inf	21.56M	18.941M	21.505M	18.966M	20.9M	18.991M	21.23M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.495M	14.423M	15.405M	14.408M	15.03M	14.408M	15.645M	14.408M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	4.578M	4.58M	4.538M	4.54M	4.578M	4.66M	4.578M
5745MHz	Pass	500k	19.03M	19.09M	18.865M	18.966M	18.095M	18.966M	18.425M	19.065M
5785MHz	Pass	500k	18.7M	18.991M	18.645M	19.215M	19.14M	18.941M	18.81M	19.04M
5825MHz	Pass	500k	18.975M	19.04M	19.03M	19.09M	19.085M	19.14M	18.7M	19.115M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.16M	37.731M	39.82M	37.581M	39.49M	37.681M	39.6M	37.631M
5230MHz	Pass	Inf	39.16M	37.531M	39.6M	37.781M	39.38M	37.681M	39.49M	37.681M
5270MHz	Pass	Inf	39.49M	37.631M	39.38M	37.731M	39.82M	37.581M	39.38M	37.581M
5310MHz	Pass	Inf	39.27M	37.631M	39.6M	37.581M	39.49M	37.581M	39.49M	37.581M
5510MHz	Pass	Inf	39.6M	37.581M	39.05M	37.581M	39.16M	37.631M	39.6M	37.681M
5550MHz	Pass	Inf	39.6M	37.581M	39.93M	37.681M	39.93M	37.631M	39.38M	37.581M
5670MHz	Pass	Inf	39.6M	37.581M	39.6M	37.631M	39.71M	37.531M	39.49M	37.581M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.405M	33.653M	34.44M	33.583M	34.44M	33.618M	34.965M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.078M	4.02M	4.098M	4.04M	4.118M	3.92M	4.098M
5755MHz	Pass	500k	37.51M	37.631M	38.17M	37.731M	37.84M	37.731M	37.84M	37.681M
5795MHz	Pass	500k	37.51M	37.731M	37.4M	37.781M	37.62M	37.681M	37.95M	37.731M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.3M	77.061M	79.42M	77.261M	79.42M	77.061M	78.98M	77.161M
5290MHz	Pass	Inf	78.76M	77.161M	79.2M	76.962M	78.98M	77.061M	78.76M	76.962M
5530MHz	Pass	Inf	79.2M	77.161M	78.76M	77.161M	78.98M	77.061M	78.76M	77.061M
5610MHz	Pass	Inf	79.42M	77.061M	79.2M	77.061M	79.42M	76.962M	78.98M	77.261M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.4M	73.088M	74.25M	73.313M	74.55M	73.163M	74.55M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.118M	4.14M	4.098M	3.54M	4.098M	4.04M	4.098M
5775MHz	Pass	500k	77.66M	77.061M	77M	77.261M	77.22M	77.161M	77.22M	77.261M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	79.68M	77.161M	79.28M	77.321M	79.36M	77.081M	79.76M	77.321M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.08M	77.241M	79.44M	77.641M	79.6M	77.401M	80.24M	77.161M
5570MHz	Pass	Inf	159.72M	156.122M	160.16M	156.122M	158.84M	155.922M	159.28M	155.922M
802.11ax HEW20-BF_Nss1,(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	20.9M	18.966M	20.625M	18.991M	21.01M	18.966M	21.285M	19.115M
5200MHz	Pass	Inf	20.845M	18.941M	20.79M	18.966M	21.505M	18.991M	21.395M	18.991M
5240MHz	Pass	Inf	21.12M	19.065M	20.9M	19.115M	21.615M	18.966M	23.32M	19.14M
5260MHz	Pass	Inf	20.955M	19.115M	21.34M	18.941M	21.395M	18.941M	20.845M	18.941M
5300MHz	Pass	Inf	20.625M	18.916M	21.065M	18.991M	21.23M	18.941M	21.065M	18.941M
5320MHz	Pass	Inf	20.79M	18.941M	20.625M	18.941M	21.285M	18.966M	20.735M	19.015M
5500MHz	Pass	Inf	20.68M	18.941M	21.12M	18.966M	20.79M	19.04M	20.845M	19.065M
5580MHz	Pass	Inf	21.01M	18.991M	21.065M	18.941M	21.45M	18.991M	20.735M	18.966M
5700MHz	Pass	Inf	20.9M	18.966M	21.01M	18.941M	21.12M	18.941M	20.79M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.39M	14.423M	15.885M	14.378M	15.57M	14.408M	15.24M	14.393M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.58M	4.578M	4.52M	4.578M	4.6M	4.558M	4.64M	4.558M
5745MHz	Pass	500k	18.865M	18.966M	19.085M	19.015M	19.085M	19.065M	19.195M	18.966M
5785MHz	Pass	500k	19.03M	18.966M	19.085M	18.991M	19.03M	19.04M	19.25M	18.991M
5825MHz	Pass	500k	18.59M	18.966M	18.865M	19.19M	19.085M	19.115M	18.92M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	37.581M	39.82M	37.431M	39.82M	37.531M	39.05M	37.731M
5230MHz	Pass	Inf	39.38M	37.681M	39.38M	37.631M	39.38M	37.631M	39.6M	37.681M
5270MHz	Pass	Inf	39.93M	37.631M	39.6M	37.581M	39.71M	37.581M	39.38M	37.631M
5310MHz	Pass	Inf	39.82M	37.531M	39.93M	37.731M	39.6M	37.781M	39.6M	37.681M
5510MHz	Pass	Inf	39.38M	37.581M	39.49M	37.681M	38.83M	37.681M	39.49M	37.681M
5550MHz	Pass	Inf	39.16M	37.731M	39.05M	37.631M	39.49M	37.581M	39.49M	37.731M
5670MHz	Pass	Inf	38.94M	37.531M	39.93M	37.531M	39.49M	37.781M	39.71M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.37M	33.618M	34.93M	33.688M	34.72M	33.723M	34.895M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.098M	4.12M	4.078M	3.68M	4.098M	4.06M	4.078M
5755MHz	Pass	500k	36.85M	37.681M	37.84M	37.681M	37.84M	37.681M	37.95M	37.681M
5795MHz	Pass	500k	38.06M	37.631M	37.07M	37.831M	36.3M	37.731M	37.29M	37.781M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.08M	77.261M	79.42M	77.061M	79.86M	77.061M	80.3M	76.962M
5290MHz	Pass	Inf	79.2M	77.161M	78.76M	77.161M	78.76M	77.061M	78.98M	77.261M
5530MHz	Pass	Inf	79.2M	77.161M	79.2M	77.361M	78.98M	77.161M	79.2M	77.061M
5610MHz	Pass	Inf	78.98M	77.061M	78.98M	77.161M	78.76M	77.261M	78.98M	77.261M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.55M	73.088M	74.4M	73.313M	74.625M	73.163M	74.475M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.118M	3.84M	4.098M	4.04M	4.078M	4.02M	4.098M
5775MHz	Pass	500k	75.68M	77.061M	77.88M	76.962M	76.56M	77.061M	77.44M	77.061M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	79.52M	77.161M	79.44M	77.321M	79.36M	77.161M	79.36M	77.241M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80M	77.161M	80.48M	77.401M	80M	77.401M	80.08M	77.401M
5570MHz	Pass	Inf	159.72M	156.122M	160.16M	156.122M	159.28M	156.122M	159.28M	156.122M

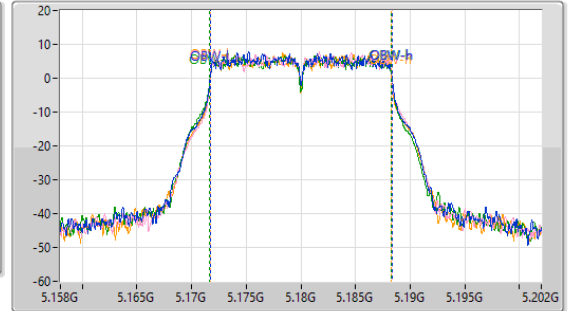
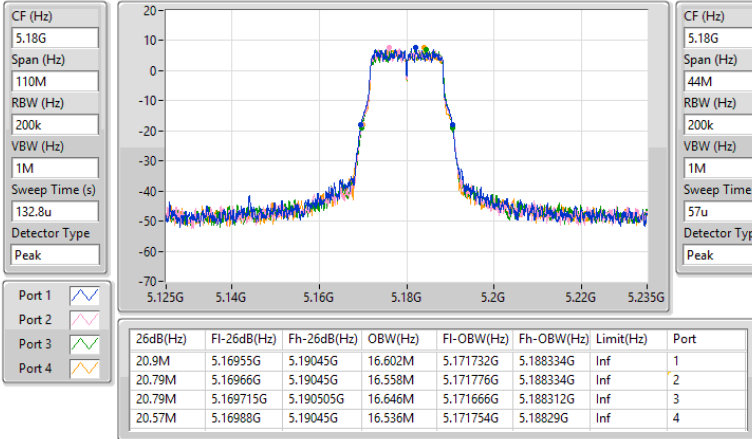
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5180MHz

30/01/2024

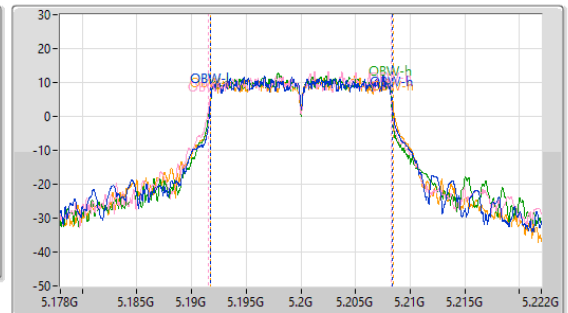
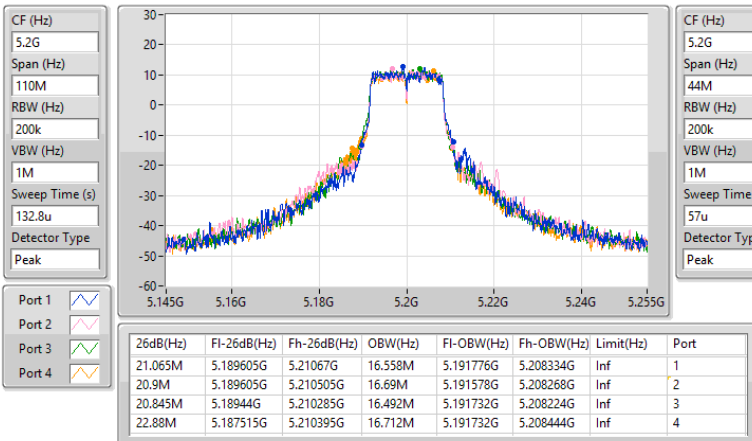


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5200MHz

30/01/2024

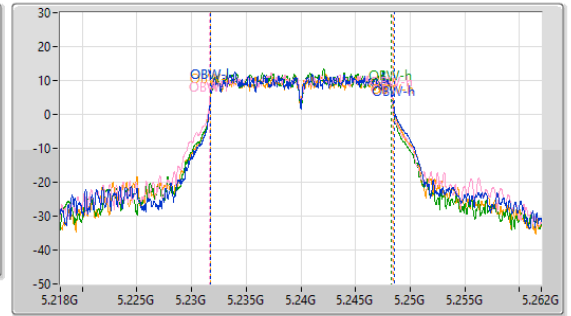
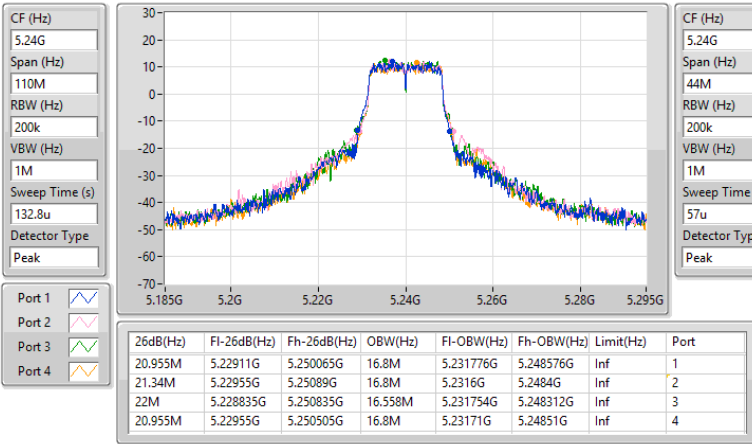


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5240MHz

30/01/2024

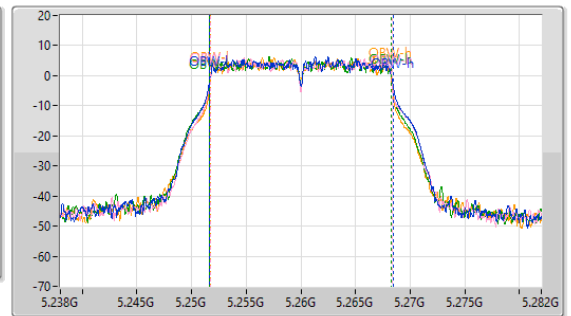
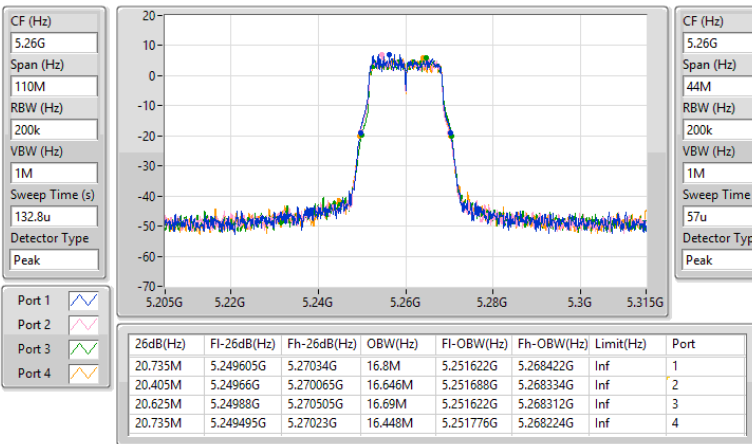


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5260MHz

30/01/2024



5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5300MHz

30/01/2024

CF (Hz)  
5.3G

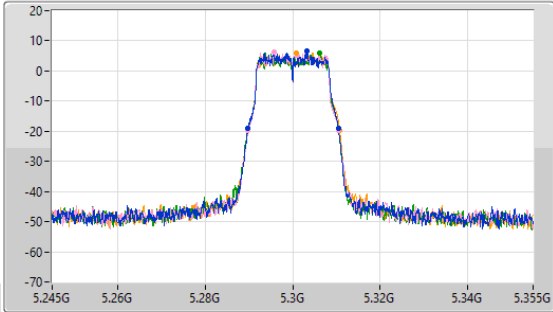
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
132.8u

Detector Type  
Peak



CF (Hz)  
5.3G

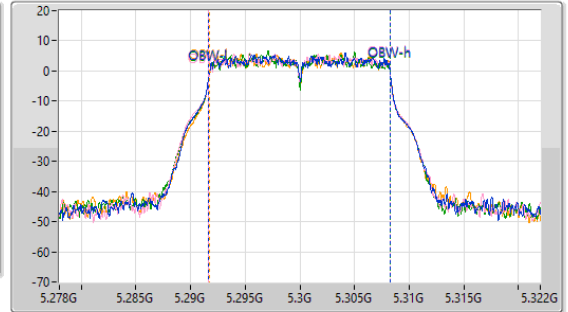
Span (Hz)  
44M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
57u

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
20.68M	5.28977G	5.31045G	16.58M	5.291666G	5.308246G	Inf	1
20.68M	5.289825G	5.310505G	16.602M	5.291644G	5.308246G	Inf	2
20.79M	5.289715G	5.310505G	16.602M	5.291644G	5.308246G	Inf	3
20.955M	5.28977G	5.310725G	16.58M	5.291688G	5.308268G	Inf	4

5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5320MHz

30/01/2024

CF (Hz)  
5.32G

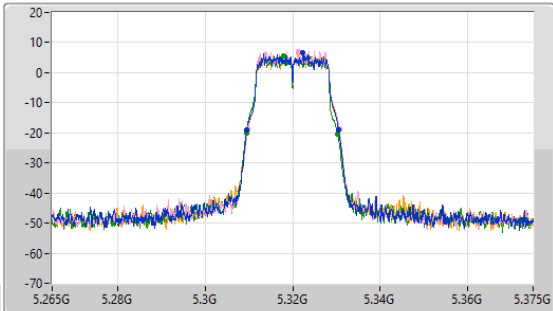
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
132.8u

Detector Type  
Peak



CF (Hz)  
5.32G

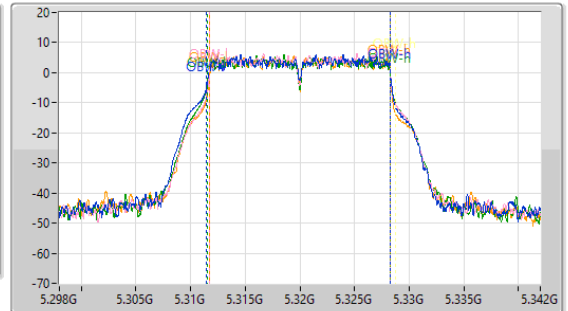
Span (Hz)  
44M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
57u

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
20.955M	5.30955G	5.330505G	16.822M	5.311446G	5.328268G	Inf	1
20.9M	5.30977G	5.33067G	16.536M	5.311732G	5.328268G	Inf	2
20.955M	5.309385G	5.33034G	16.756M	5.311556G	5.328312G	Inf	3
20.845M	5.309715G	5.33056G	16.47M	5.311754G	5.328224G	Inf	4

5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5500MHz

30/01/2024

CF (Hz)  
5.5G

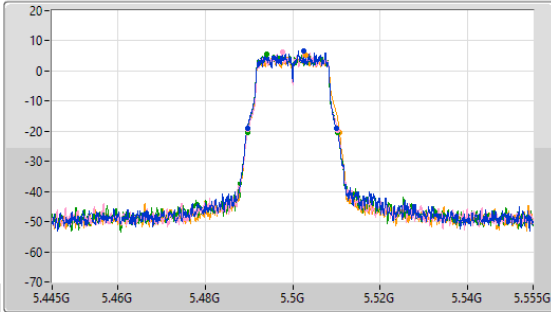
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
132.8u

Detector Type  
Peak



CF (Hz)  
5.5G

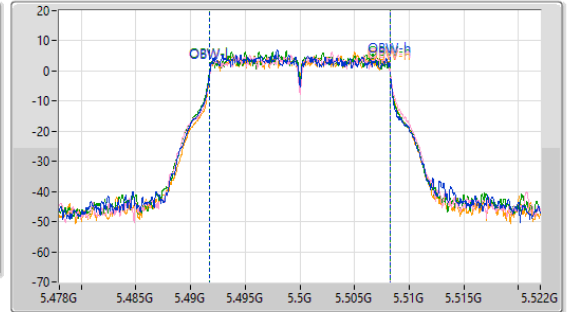
Span (Hz)  
44M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
57u

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
20.46M	5.48966G	5.51012G	16.514M	5.49171G	5.508224G	Inf	1
20.515M	5.48977G	5.510285G	16.58M	5.491732G	5.508312G	Inf	2
20.79M	5.489605G	5.510395G	16.558M	5.491688G	5.508246G	Inf	3
21.065M	5.489715G	5.51078G	16.514M	5.491776G	5.50829G	Inf	4

5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5580MHz

30/01/2024

CF (Hz)  
5.58G

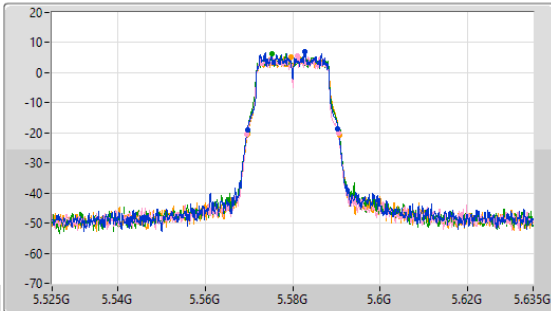
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
132.8u

Detector Type  
Peak



CF (Hz)  
5.58G

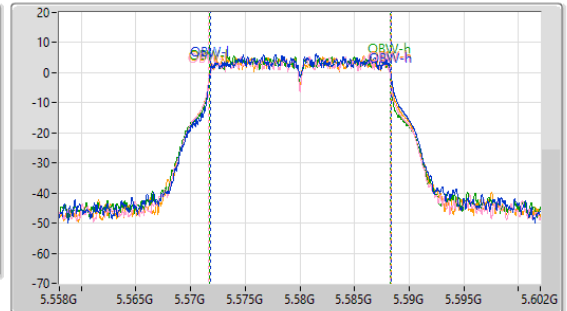
Span (Hz)  
44M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
57u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

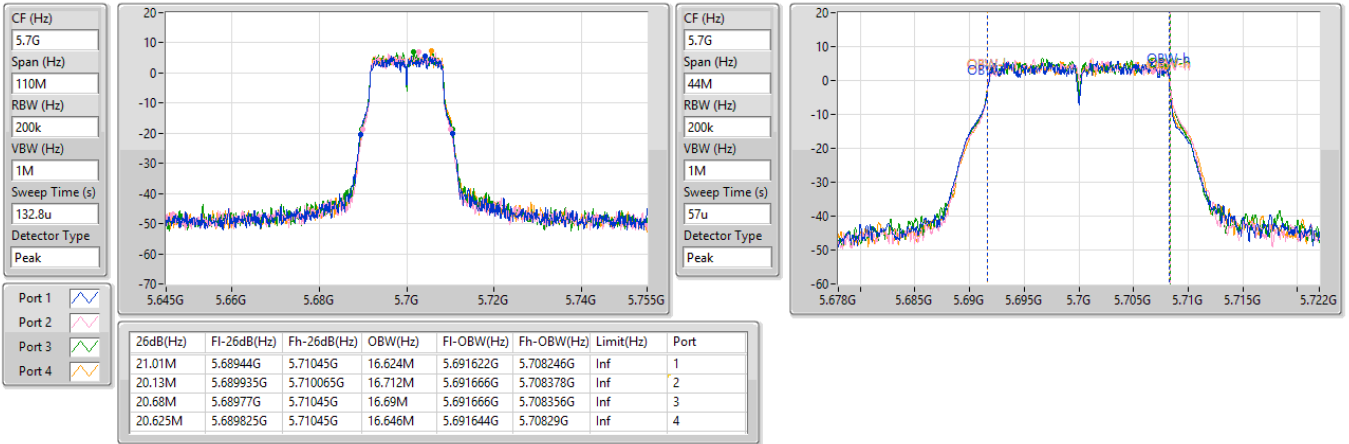
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.79M	5.569605G	5.590395G	16.602M	5.571798G	5.5884G	Inf	1
20.9M	5.56955G	5.59045G	16.624M	5.571666G	5.58829G	Inf	2
20.955M	5.569605G	5.59056G	16.514M	5.57171G	5.588224G	Inf	3
20.9M	5.56977G	5.59067G	16.646M	5.571688G	5.588334G	Inf	4

5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5700MHz

30/01/2024

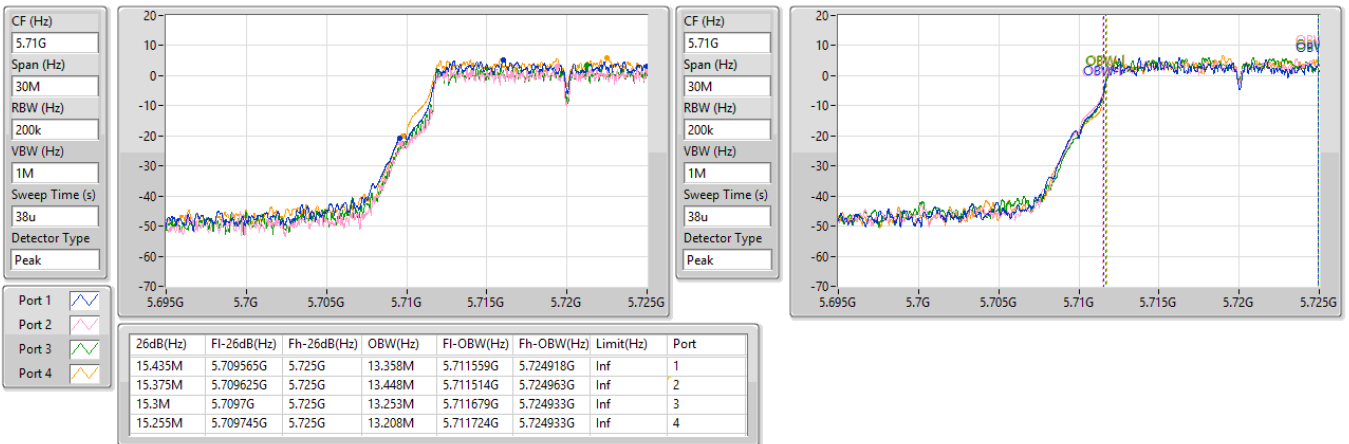


5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

30/01/2024

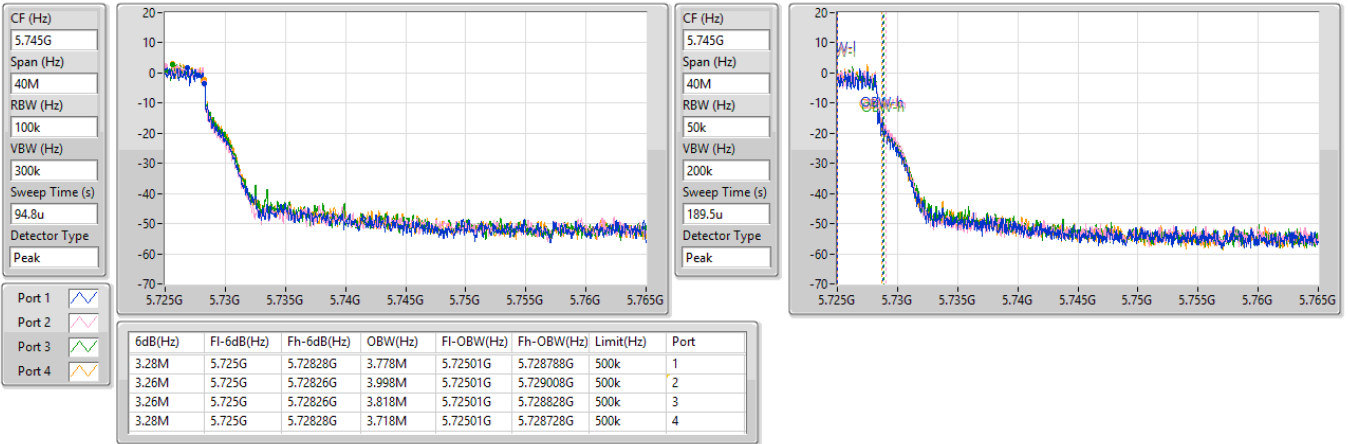


5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

30/01/2024

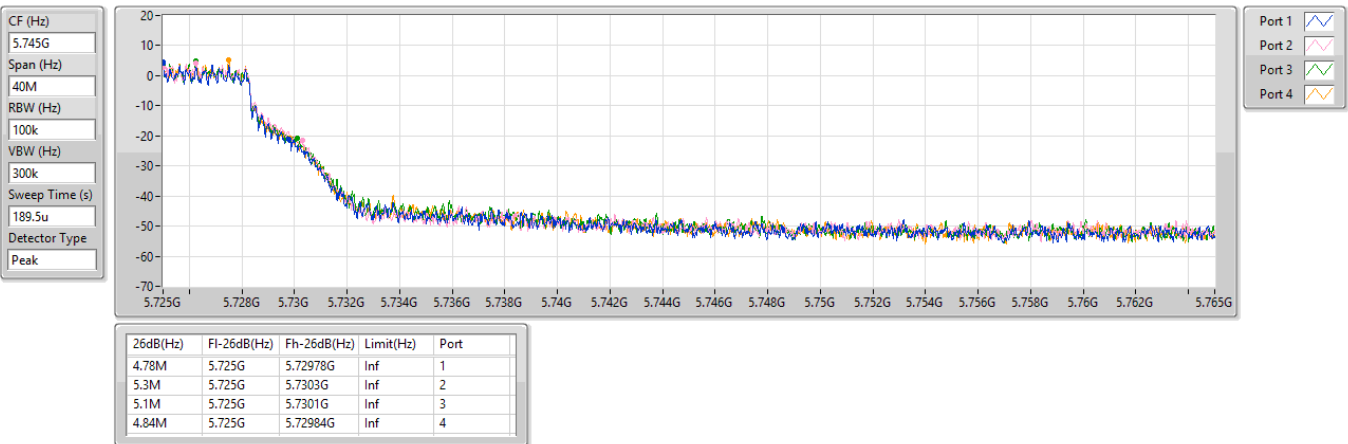


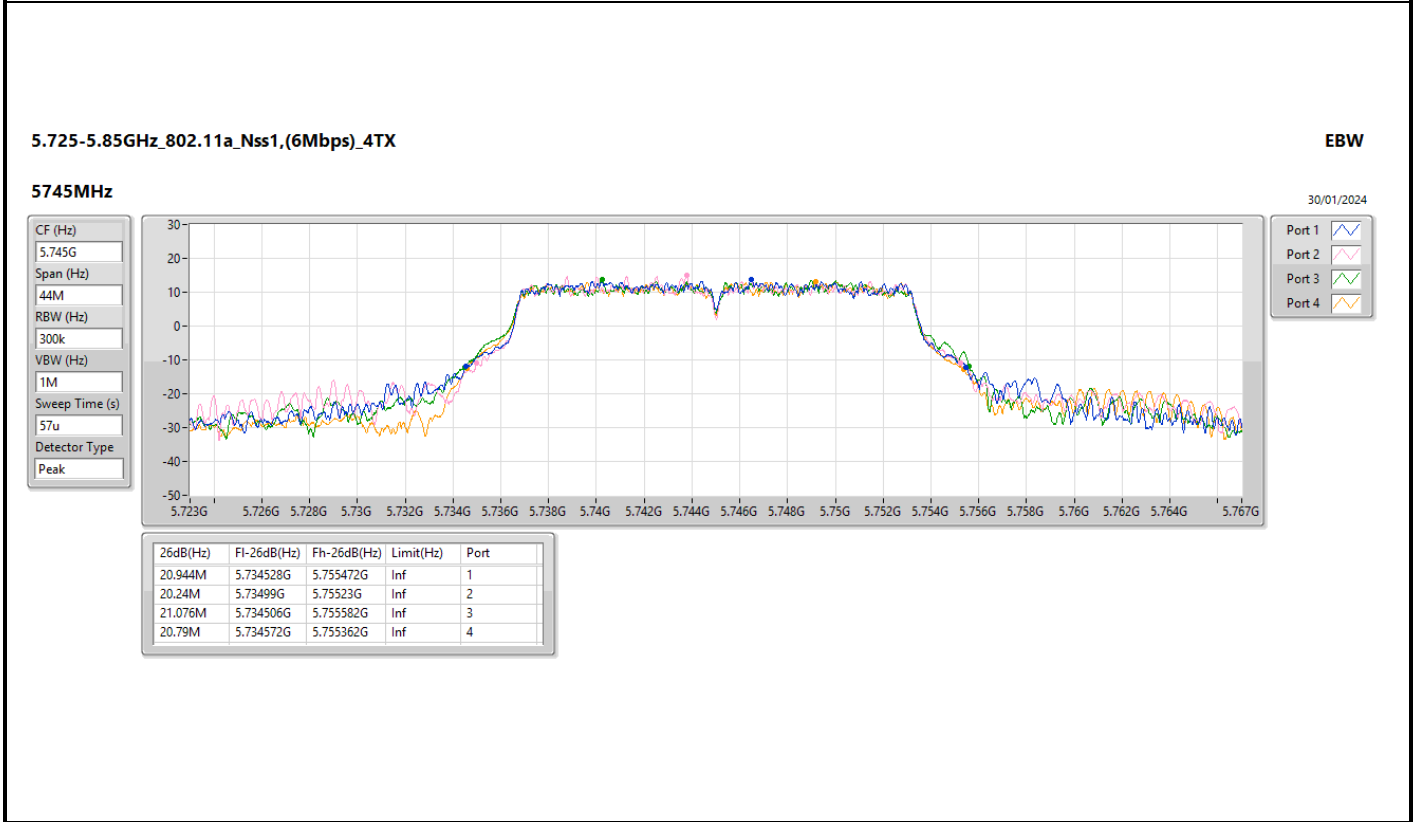
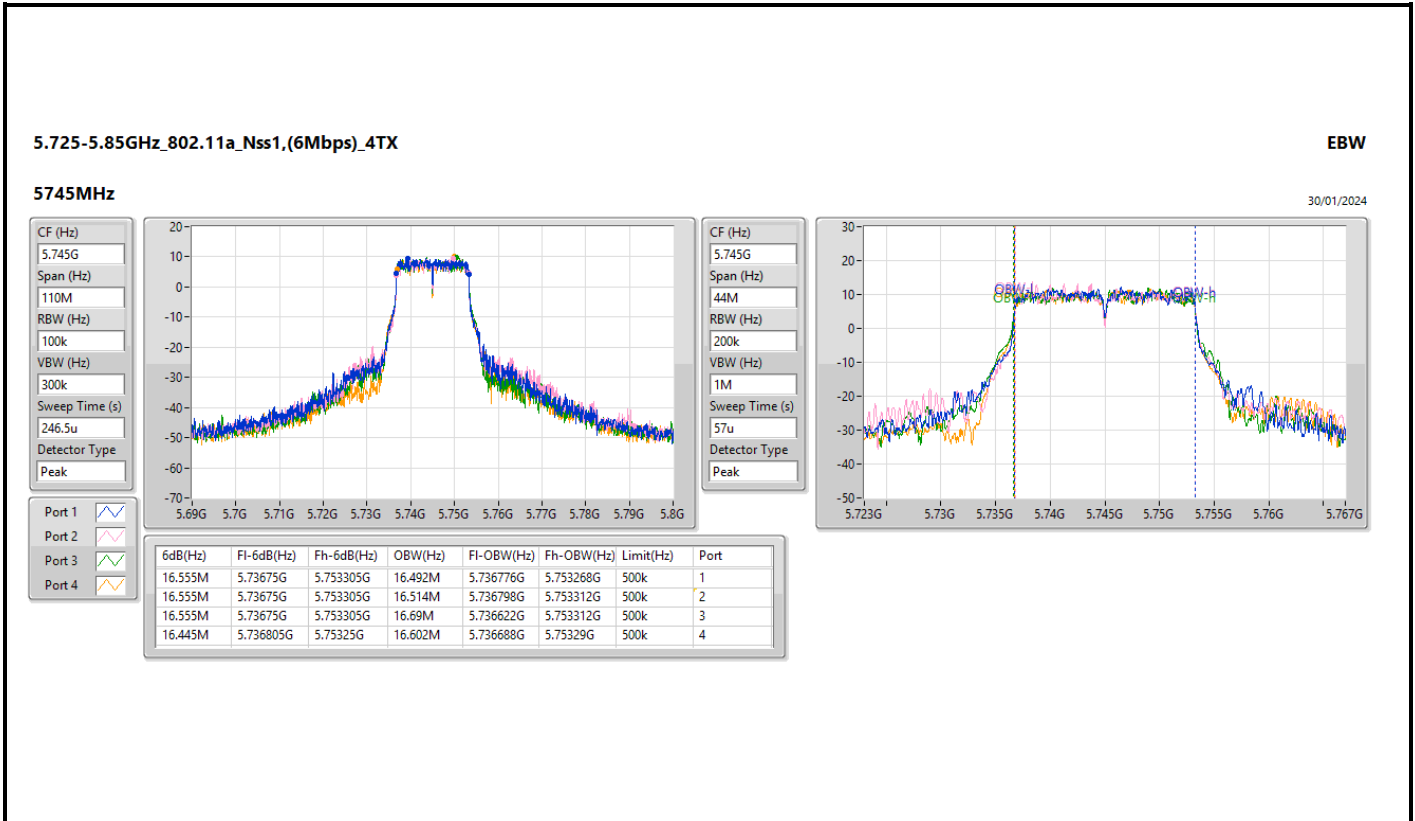
5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

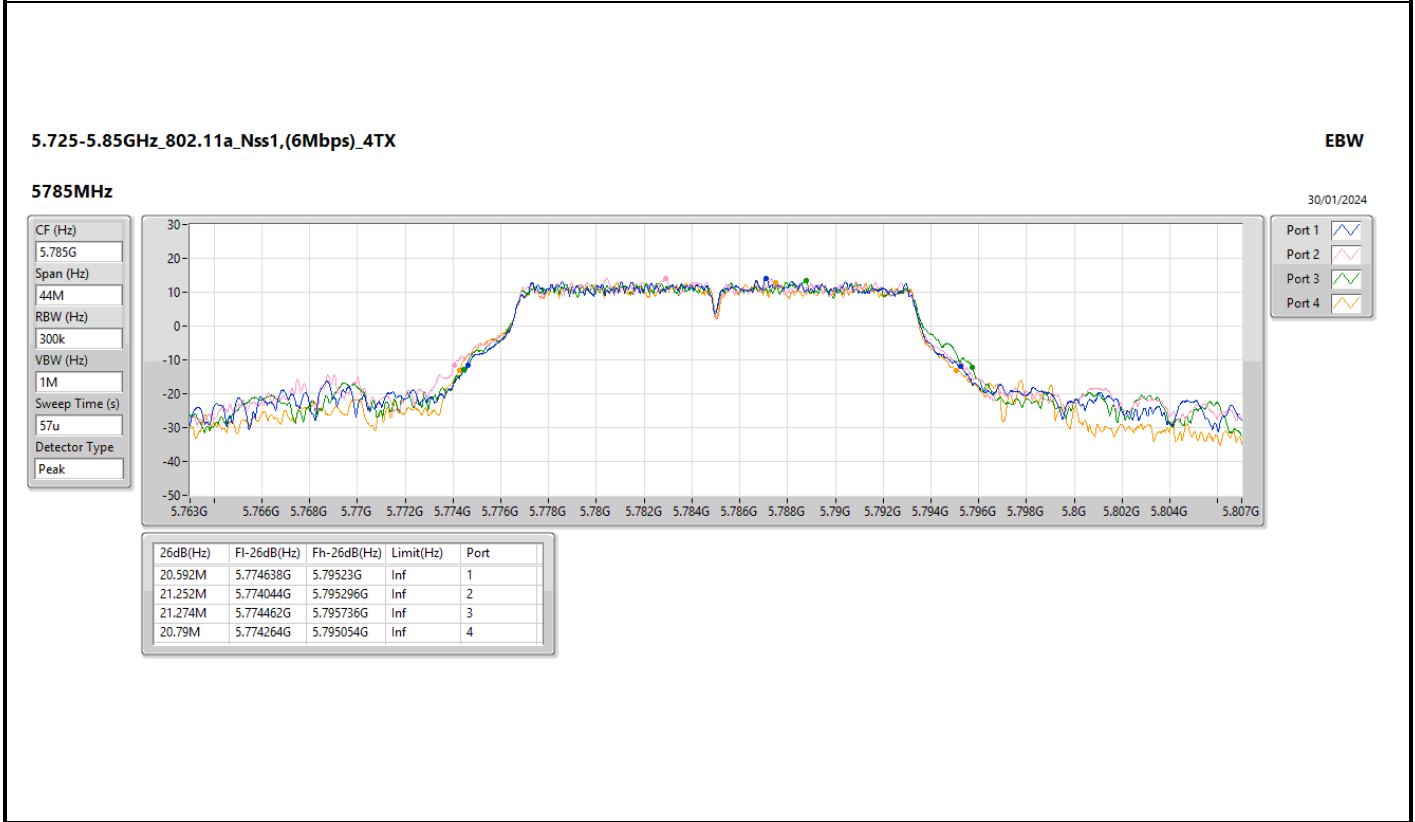
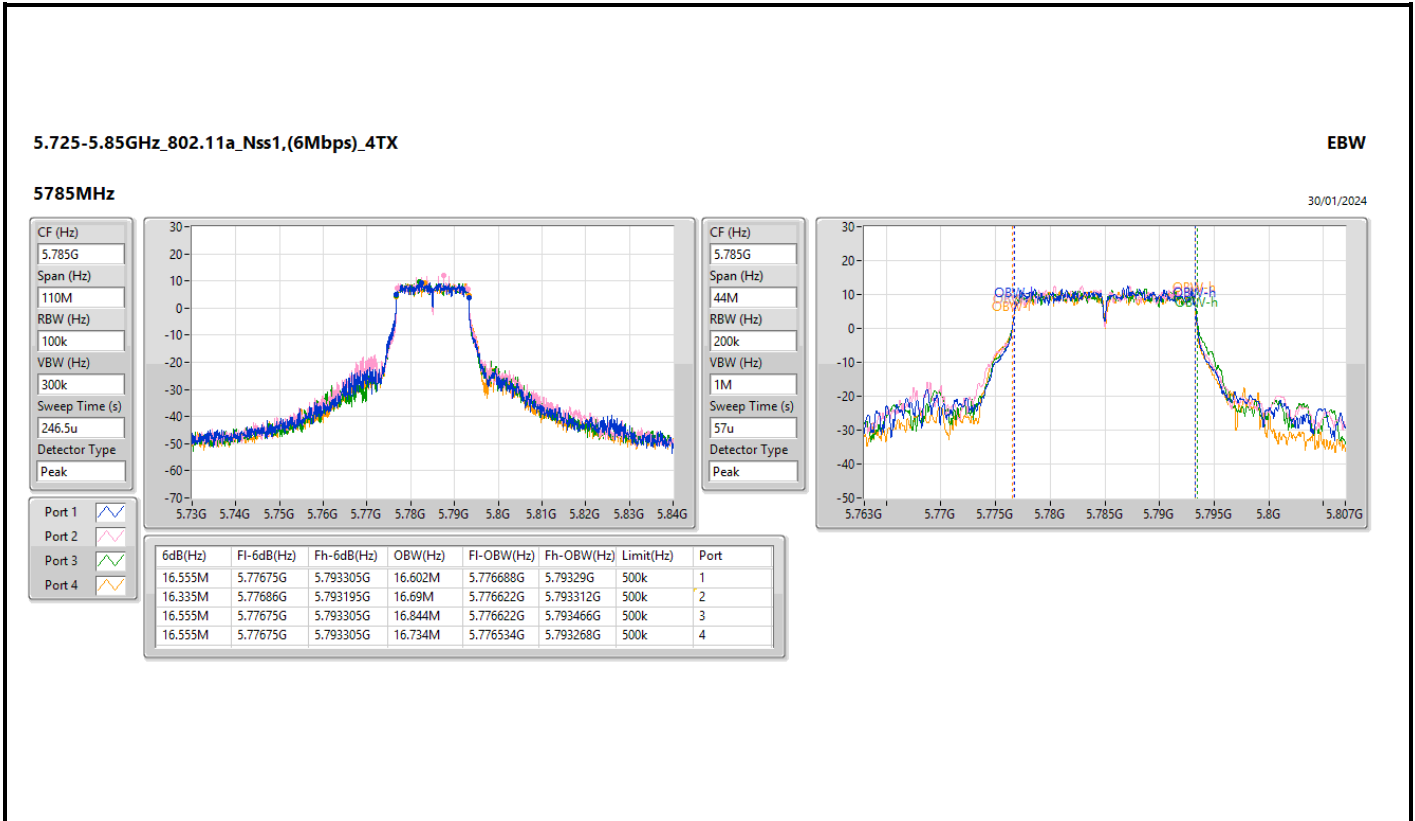
5720MHz Straddle 5.725-5.85GHz

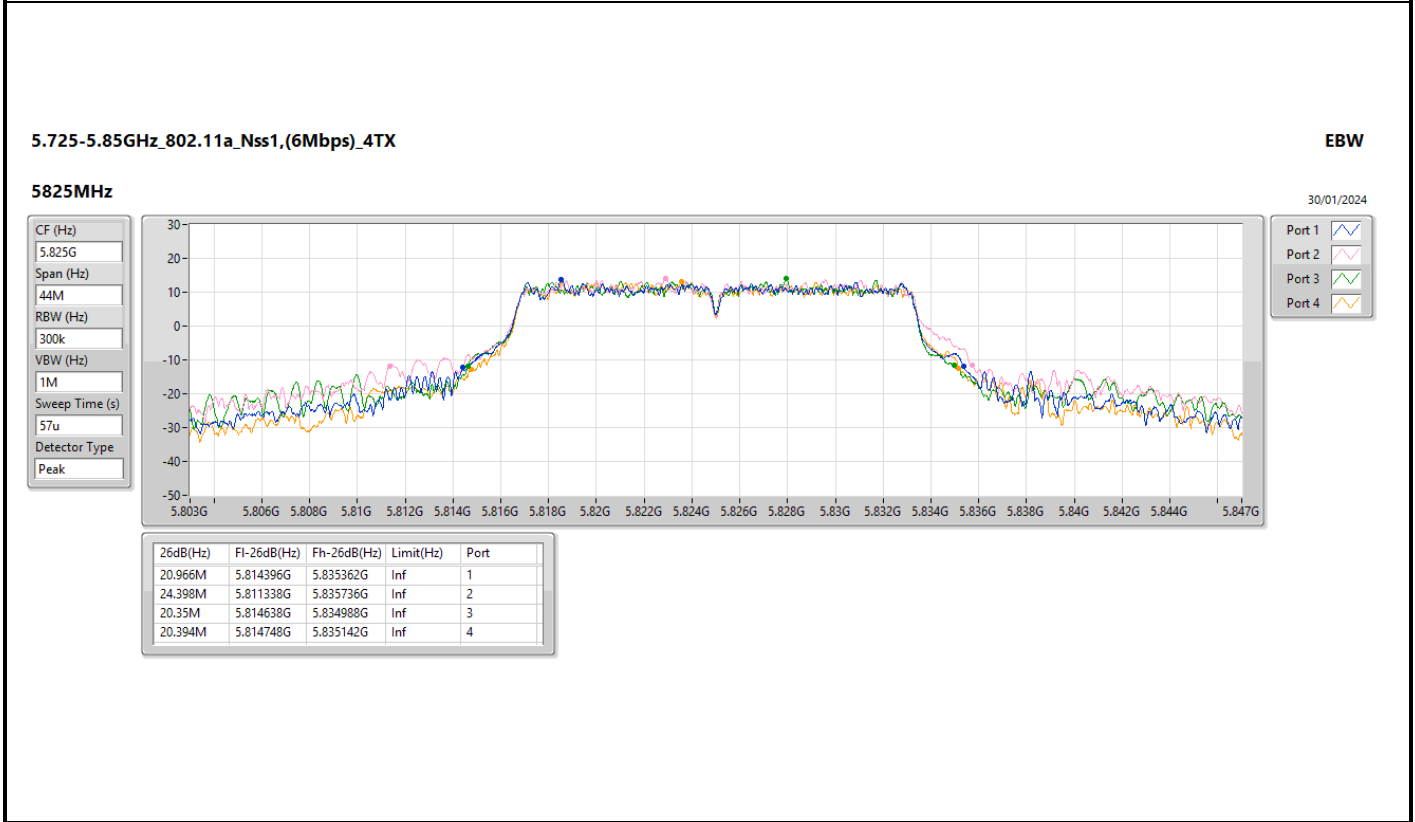
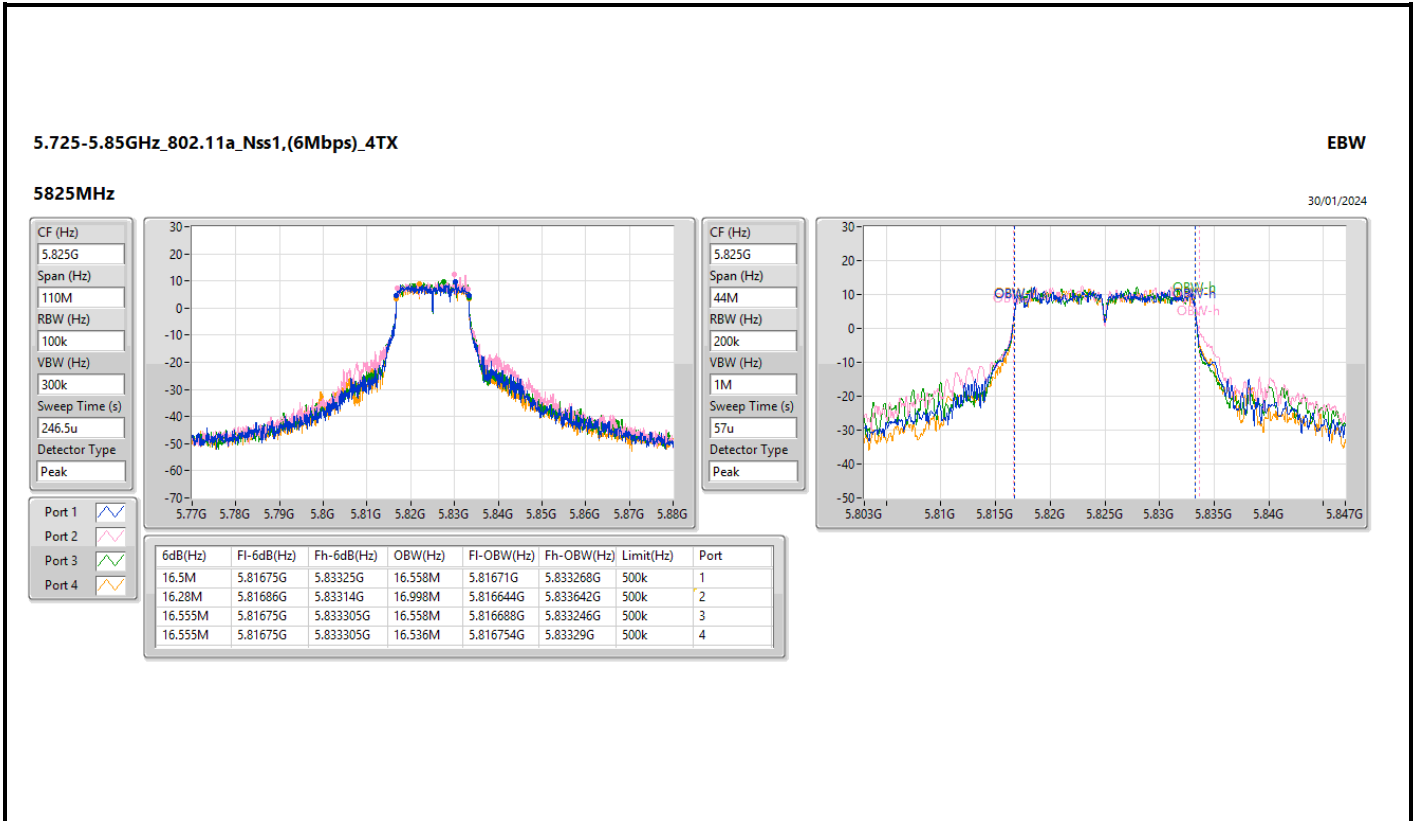
30/01/2024









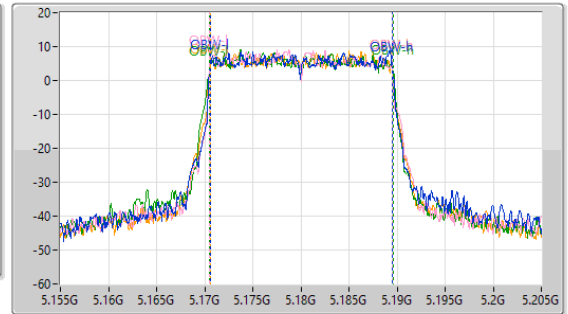
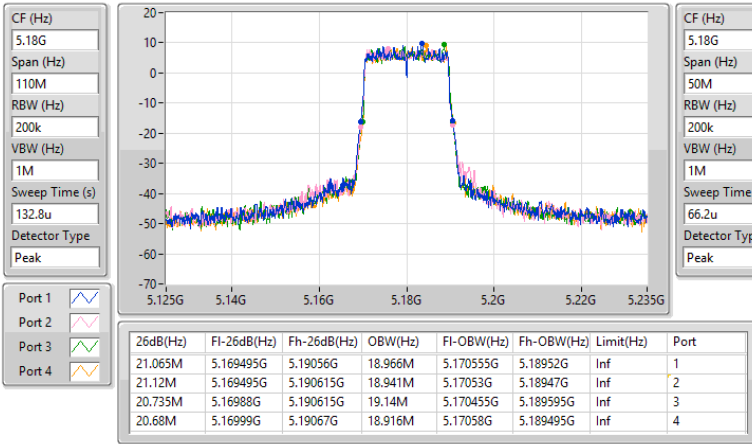


5.15-5.25GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

EBW

5180MHz

30/01/2024

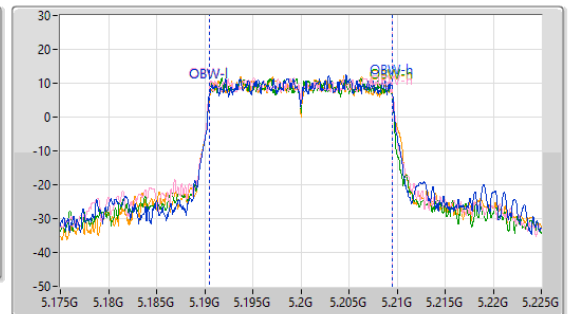
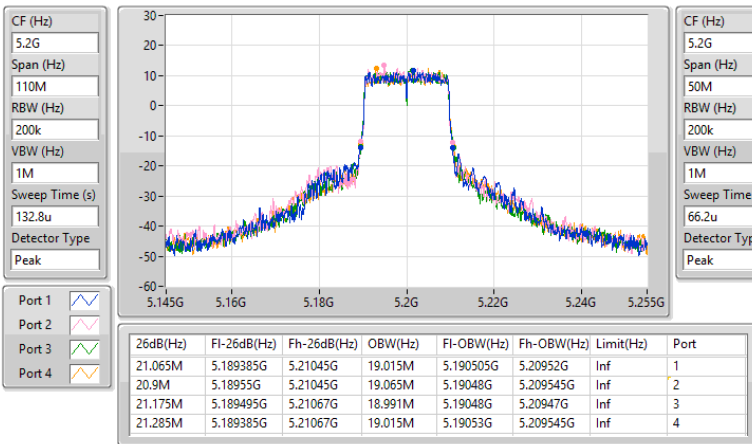


5.15-5.25GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

EBW

5200MHz

30/01/2024

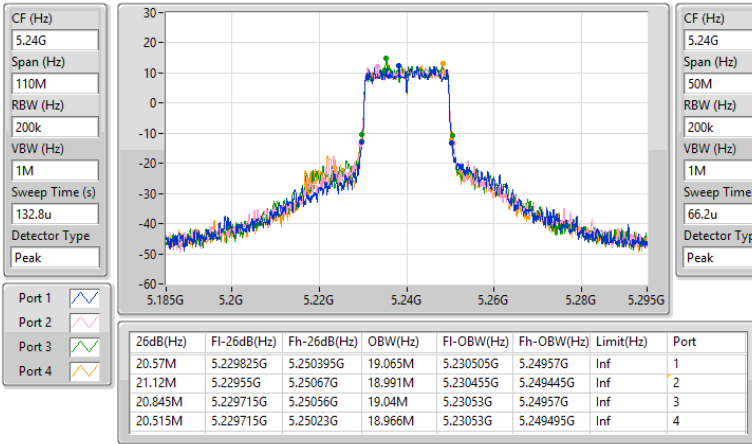


5.15-5.25GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

EBW

5240MHz

30/01/2024

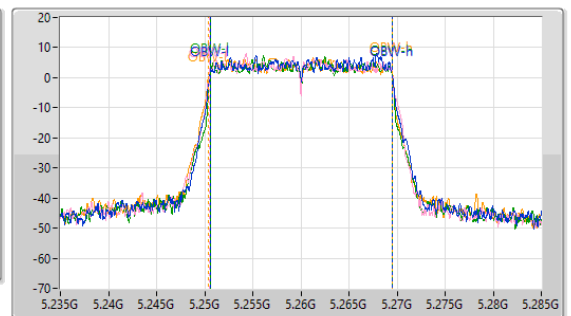
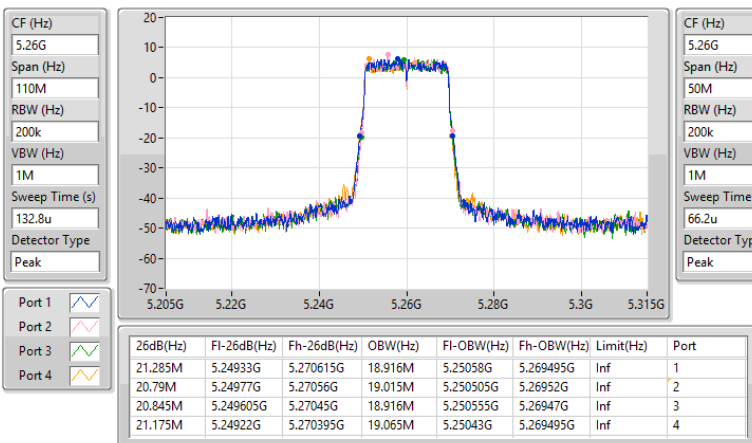


5.25-5.35GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

EBW

5260MHz

30/01/2024

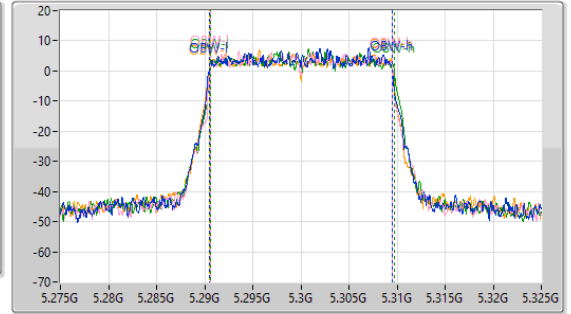
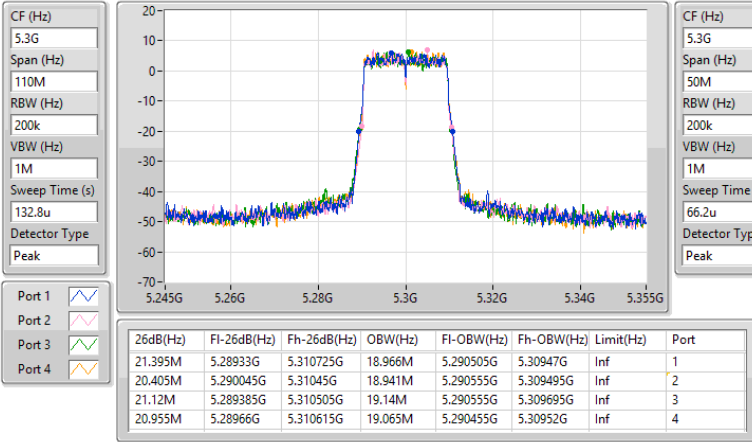


5.25-5.35GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

EBW

5300MHz

30/01/2024

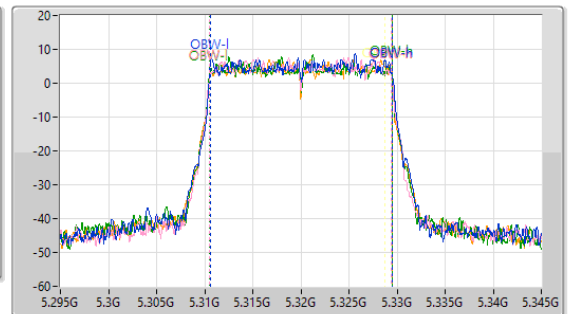
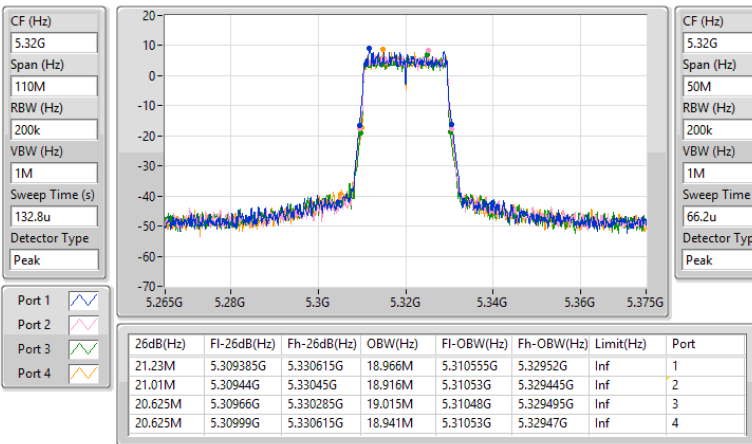


5.25-5.35GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

EBW

5320MHz

30/01/2024



5.47-5.725GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5500MHz

30/01/2024

CF (Hz)  
5.5G

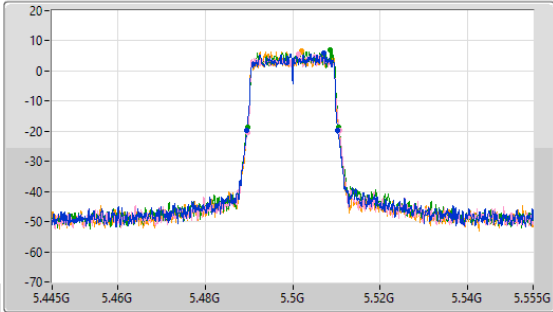
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
132.8u

Detector Type  
Peak



CF (Hz)  
5.5G

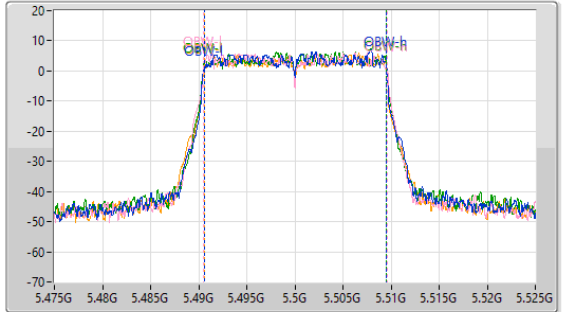
Span (Hz)  
50M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
66.2u

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
20.79M	5.48955G	5.51034G	18.916M	5.49058G	5.509495G	Inf	1
21.065M	5.48966G	5.510725G	19.04M	5.49053G	5.50957G	Inf	2
21.01M	5.489605G	5.510615G	19.015M	5.49053G	5.509545G	Inf	3
20.955M	5.489605G	5.51056G	18.941M	5.490555G	5.509495G	Inf	4

5.47-5.725GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5580MHz

30/01/2024

CF (Hz)  
5.58G

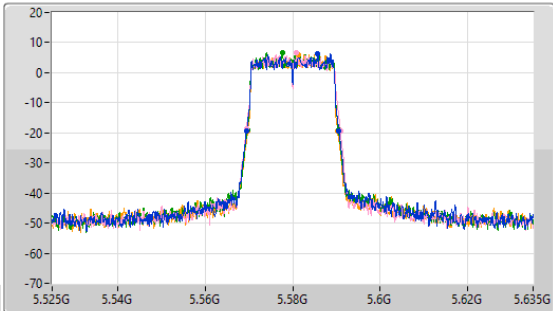
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
132.8u

Detector Type  
Peak



CF (Hz)  
5.58G

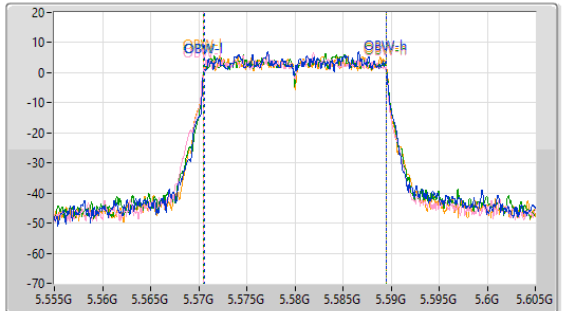
Span (Hz)  
50M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
66.2u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

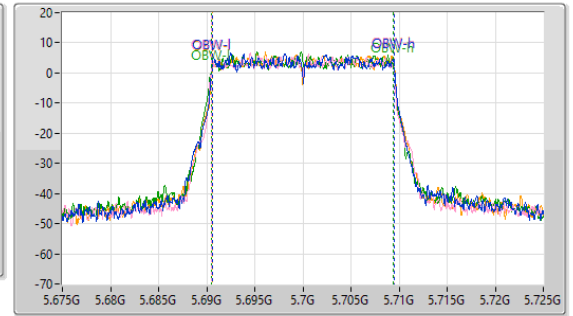
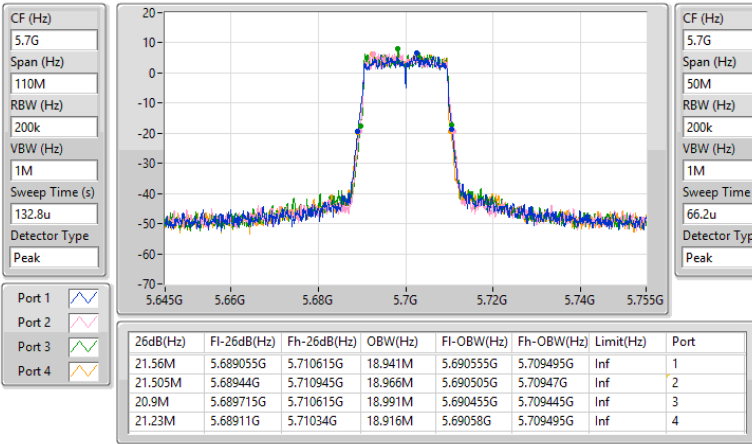
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.175M	5.56944G	5.590615G	18.916M	5.57058G	5.589495G	Inf	1
21.56M	5.569385G	5.590945G	19.015M	5.57048G	5.589495G	Inf	2
20.845M	5.56966G	5.590505G	18.991M	5.57053G	5.58952G	Inf	3
20.57M	5.569715G	5.590285G	19.015M	5.57053G	5.589545G	Inf	4

5.47-5.725GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5700MHz

30/01/2024

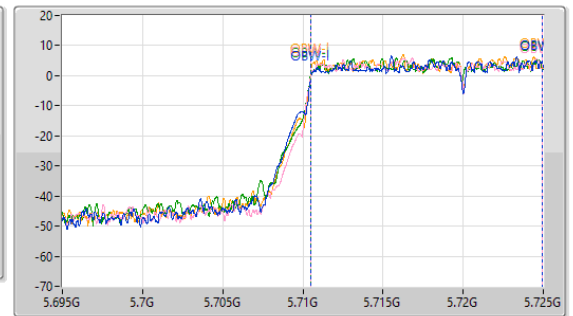
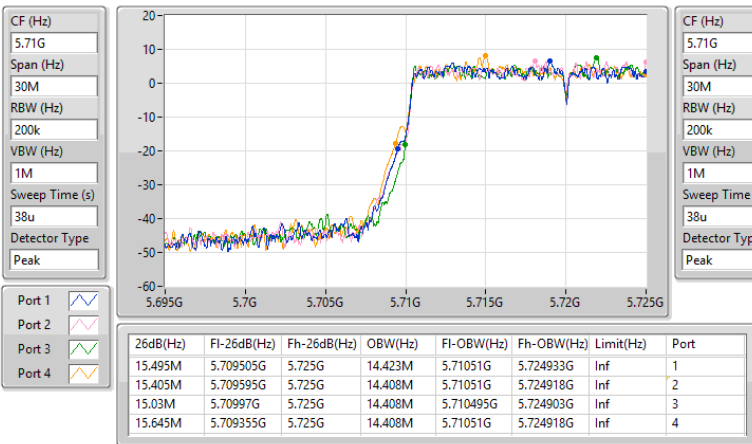


5.47-5.725GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

30/01/2024

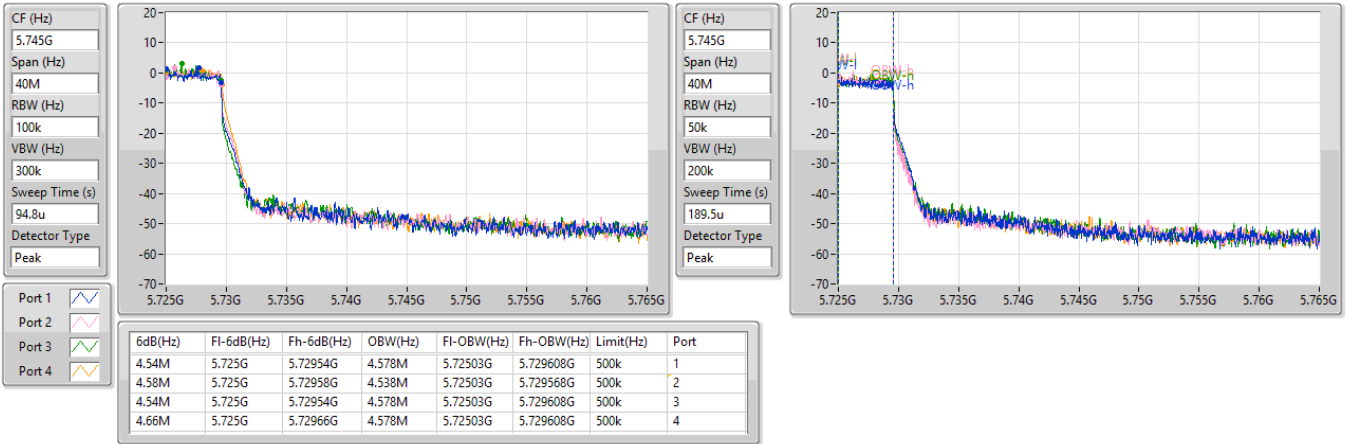


5.725-5.85GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

30/01/2024

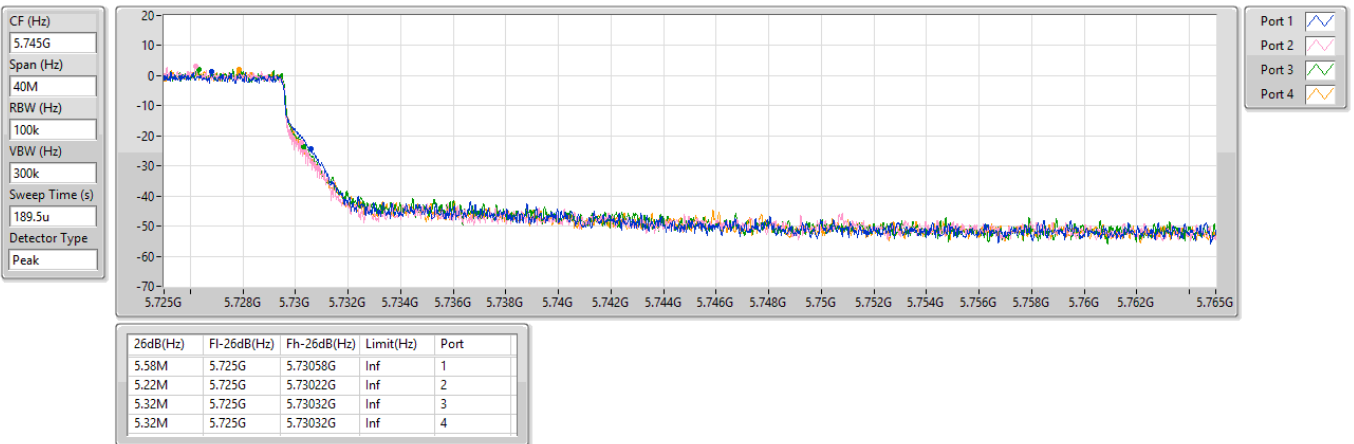


5.725-5.85GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

30/01/2024



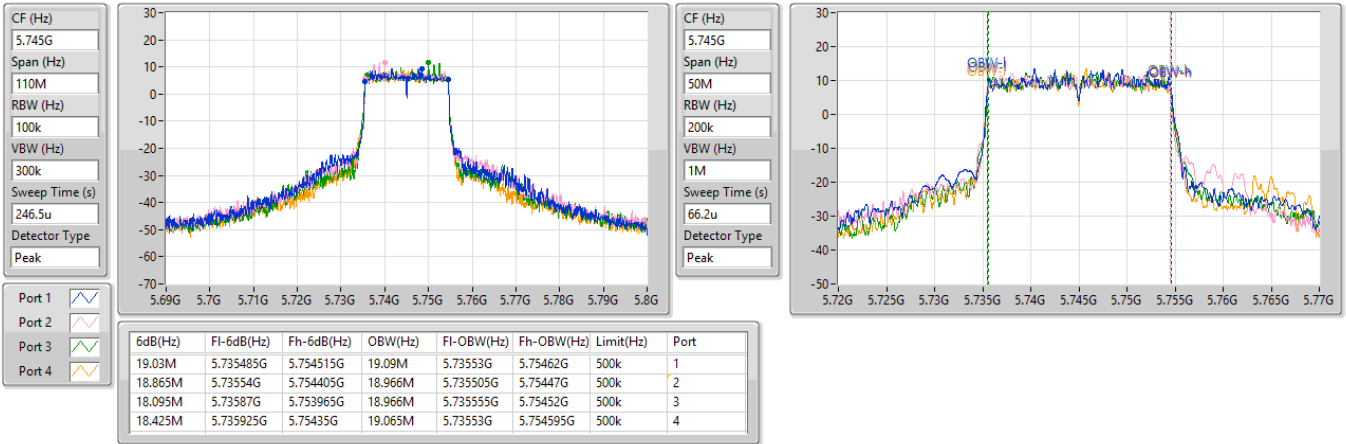


5.725-5.85GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5745MHz

30/01/2024

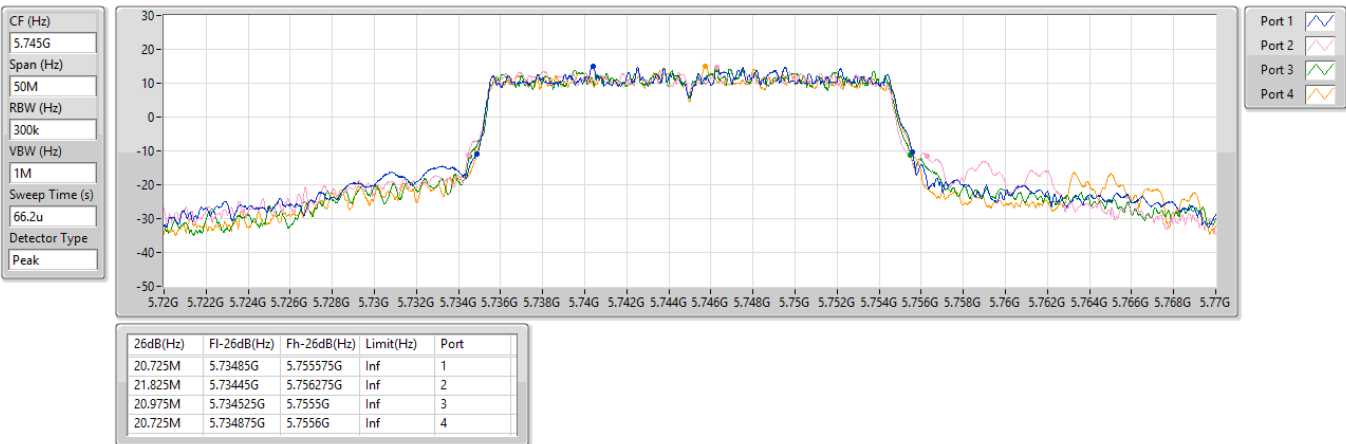


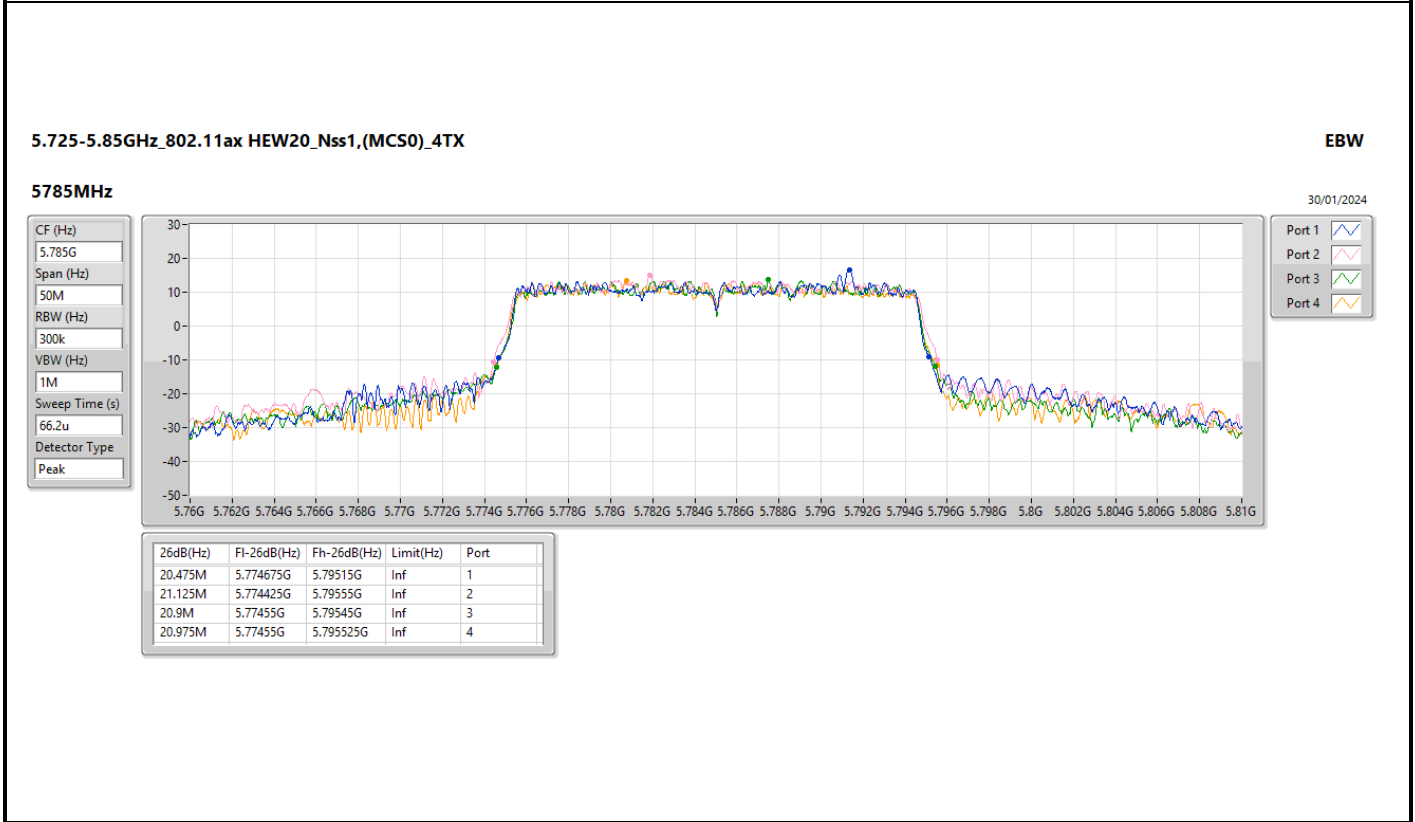
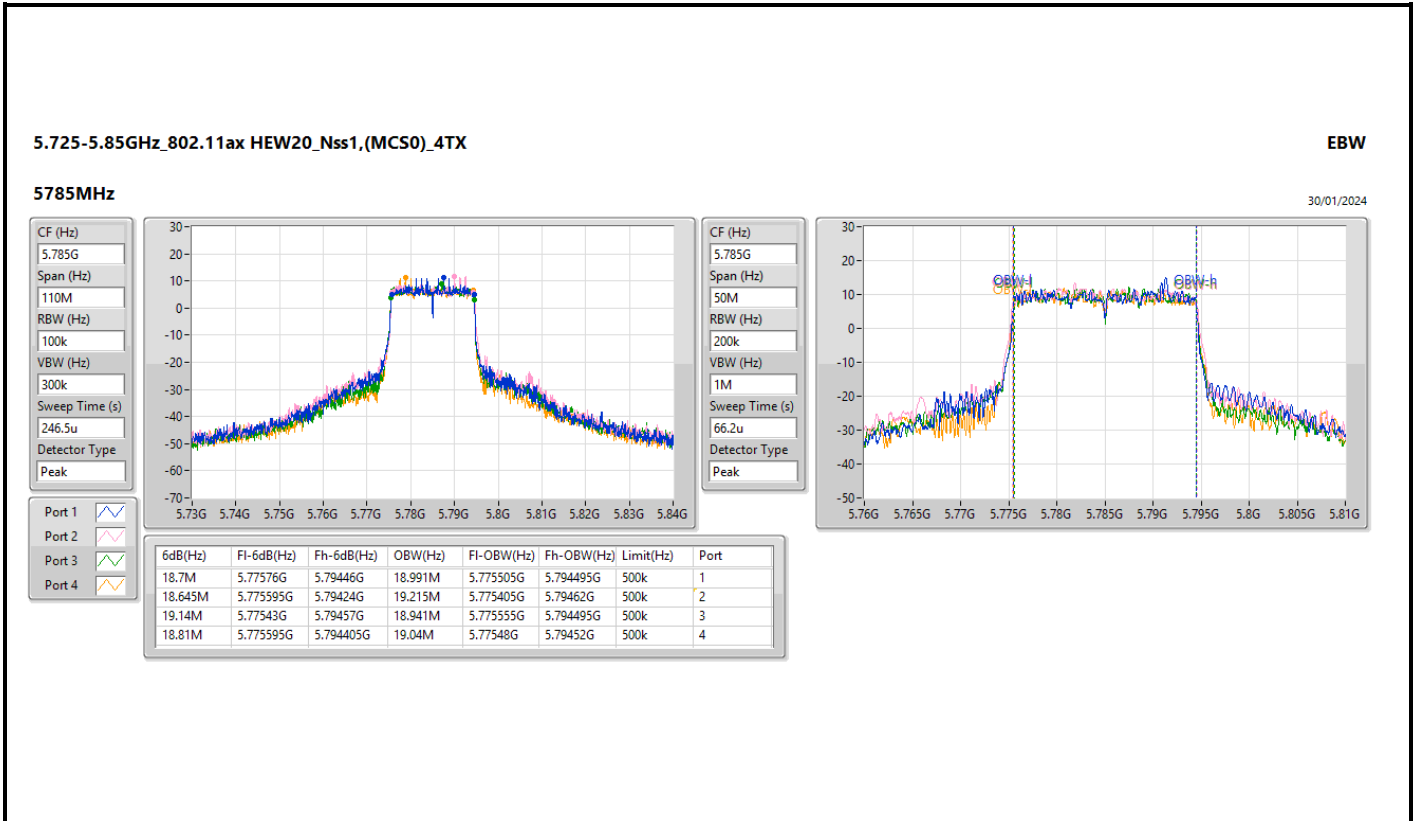
5.725-5.85GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

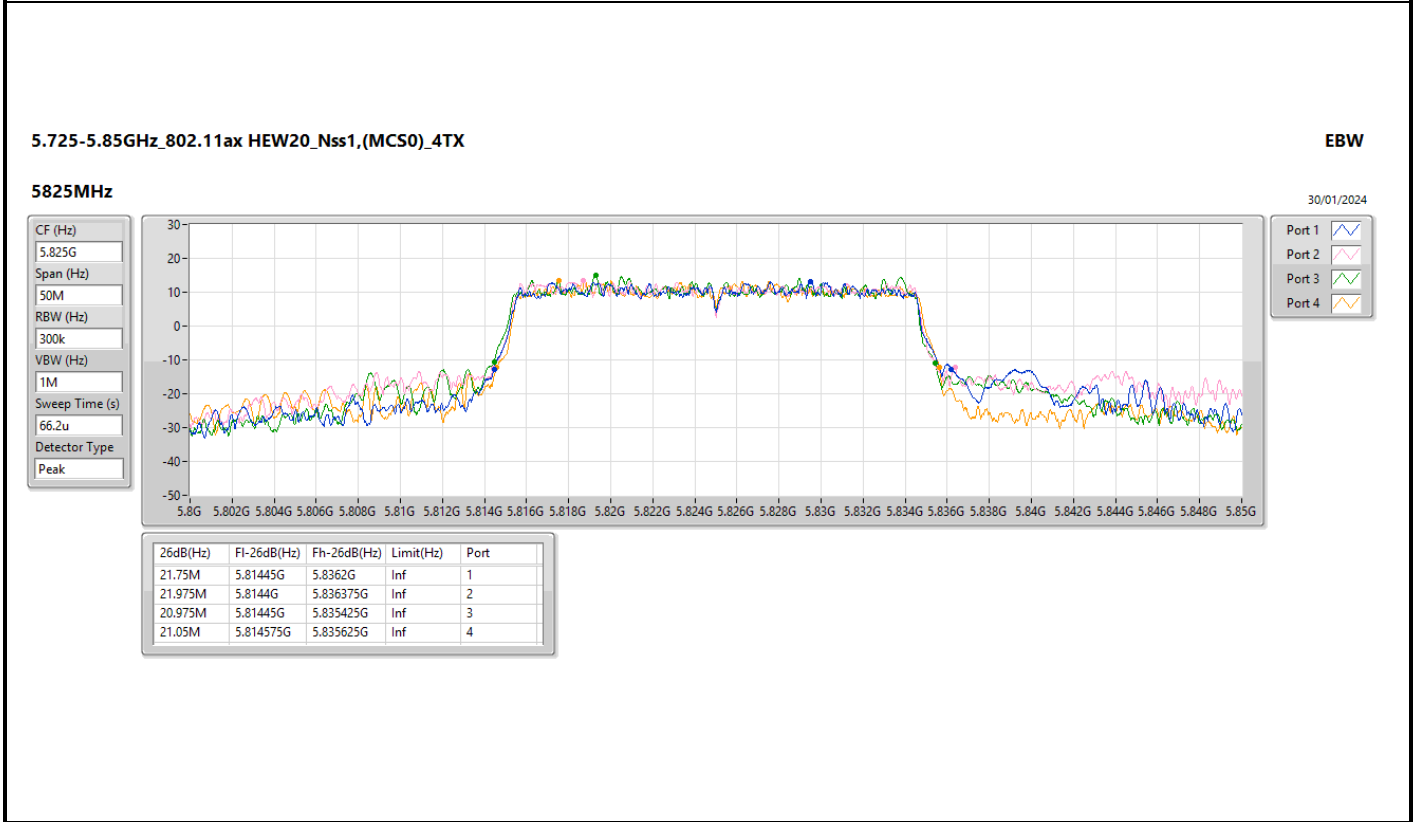
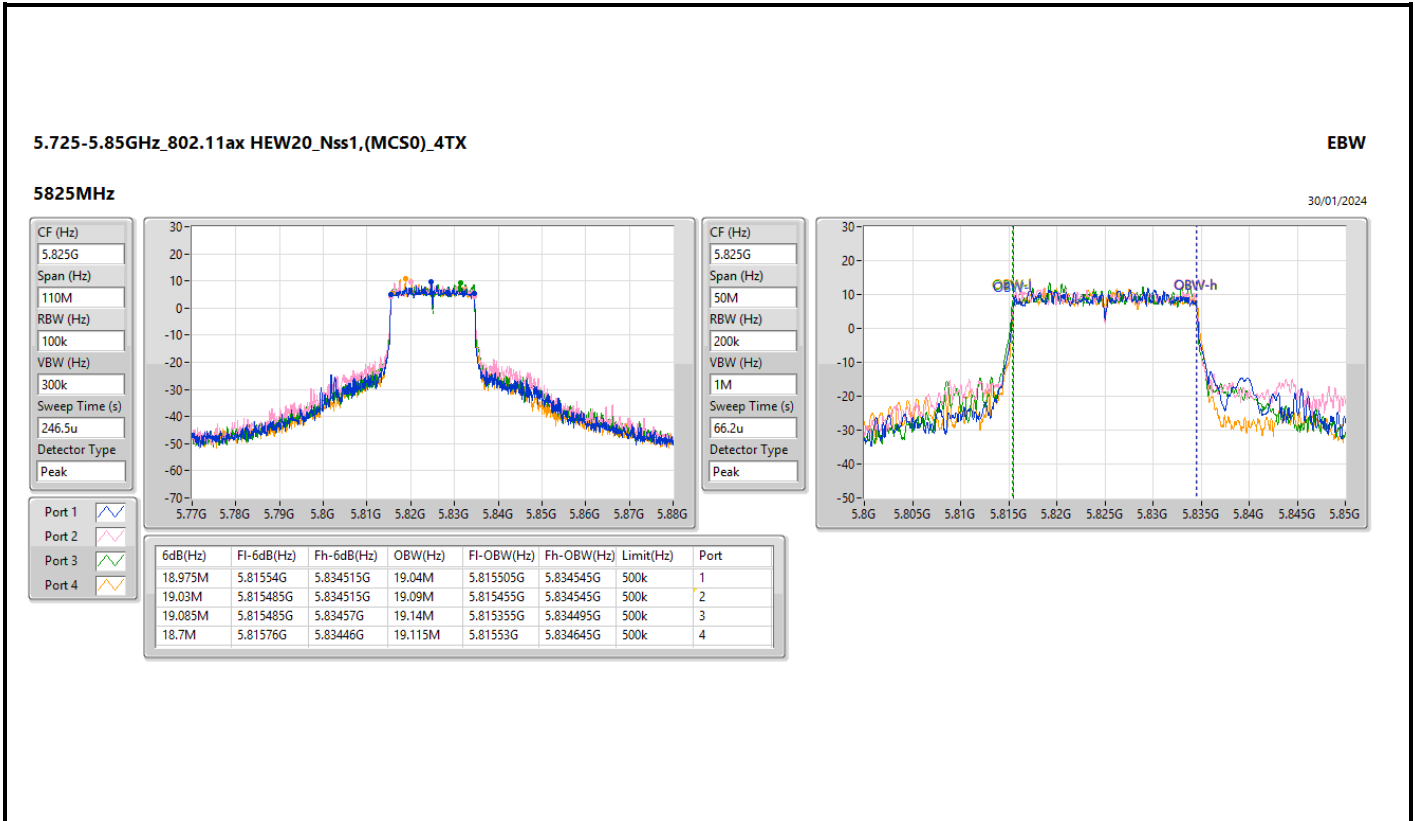
EBW

5745MHz

30/01/2024







5.15-5.25GHz\_802.11ax\_HEW40\_Nss1,(MCS0)\_4TX

EBW

5190MHz

30/01/2024

CF (Hz)  
5.19G

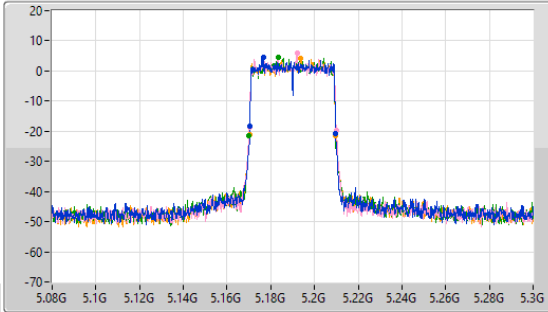
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.19G

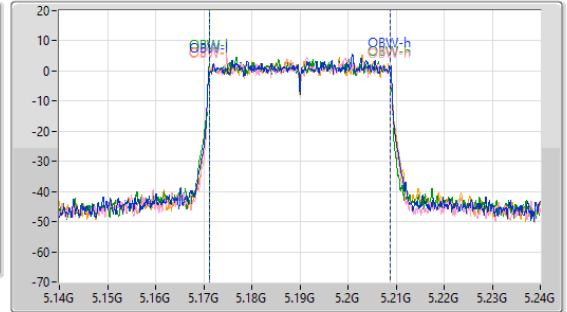
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

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
39.16M	5.17053G	5.20969G	37.731M	5.171159G	5.208891G	Inf	1
39.82M	5.1702G	5.21002G	37.581M	5.171209G	5.208791G	Inf	2
39.49M	5.17009G	5.20958G	37.681M	5.171109G	5.208791G	Inf	3
39.6M	5.1702G	5.2098G	37.631M	5.171209G	5.208841G	Inf	4

5.15-5.25GHz\_802.11ax\_HEW40\_Nss1,(MCS0)\_4TX

EBW

5230MHz

30/01/2024

CF (Hz)  
5.23G

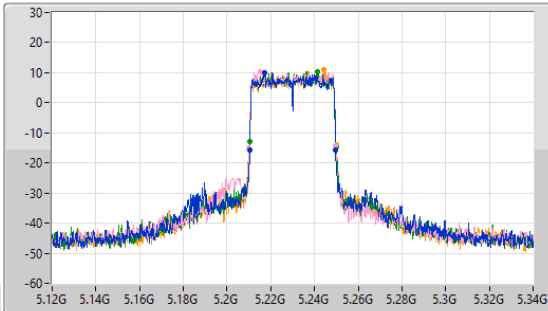
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.23G

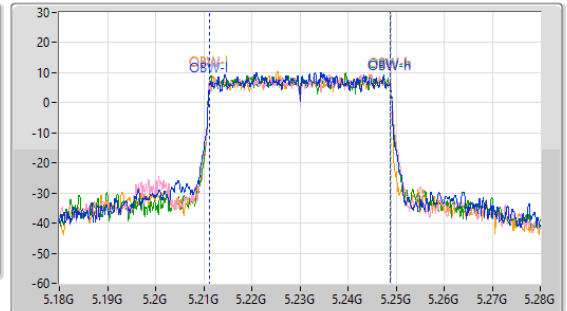
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

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
39.16M	5.21042G	5.24958G	37.531M	5.211259G	5.248791G	Inf	1
39.6M	5.21009G	5.24969G	37.781M	5.211159G	5.248941G	Inf	2
39.38M	5.21053G	5.24991G	37.681M	5.211209G	5.248891G	Inf	3
39.49M	5.21042G	5.24991G	37.681M	5.211109G	5.248791G	Inf	4

5.25-5.35GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5270MHz

30/01/2024

CF (Hz)  
5.27G

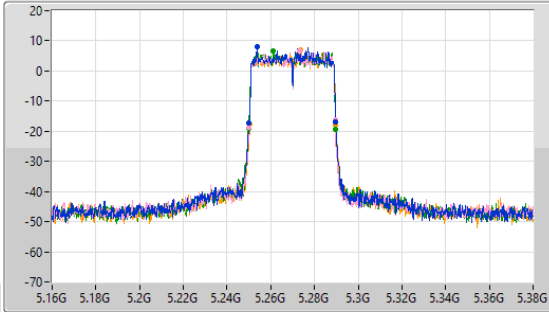
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.27G

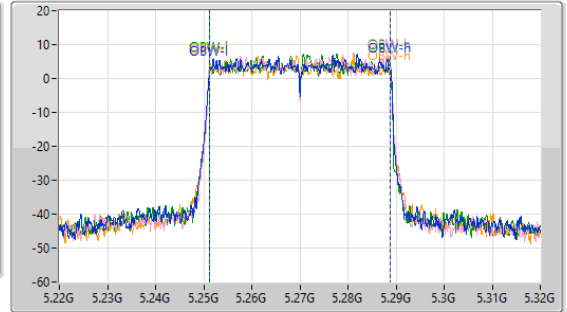
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

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	5.25009G	5.28958G	37.631M	5.251259G	5.288891G	Inf	1
39.38M	5.25009G	5.28947G	37.731M	5.251159G	5.288891G	Inf	2
39.82M	5.24976G	5.28958G	37.581M	5.251209G	5.288791G	Inf	3
39.38M	5.25042G	5.2898G	37.581M	5.251209G	5.288791G	Inf	4

5.25-5.35GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5310MHz

30/01/2024

CF (Hz)  
5.31G

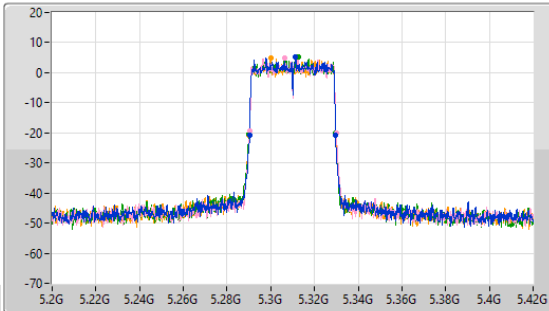
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.31G

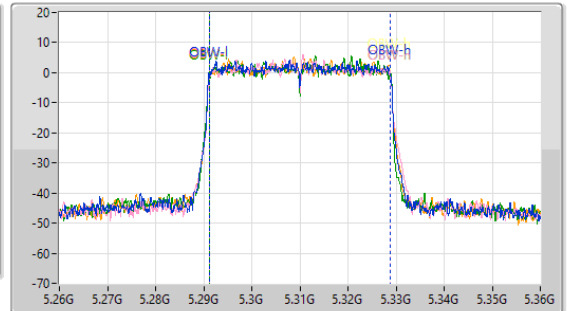
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

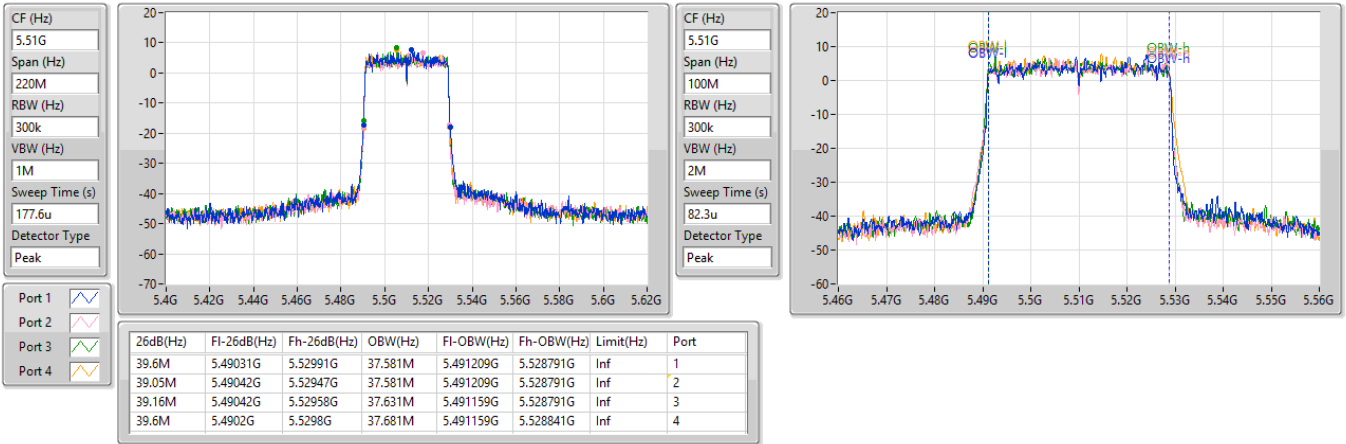
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.27M	5.29031G	5.32958G	37.631M	5.291159G	5.328791G	Inf	1
39.6M	5.29031G	5.32991G	37.581M	5.291209G	5.328791G	Inf	2
39.49M	5.29009G	5.32958G	37.581M	5.291259G	5.328841G	Inf	3
39.49M	5.29009G	5.32958G	37.581M	5.291209G	5.328791G	Inf	4

5.47-5.725GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5510MHz

30/01/2024

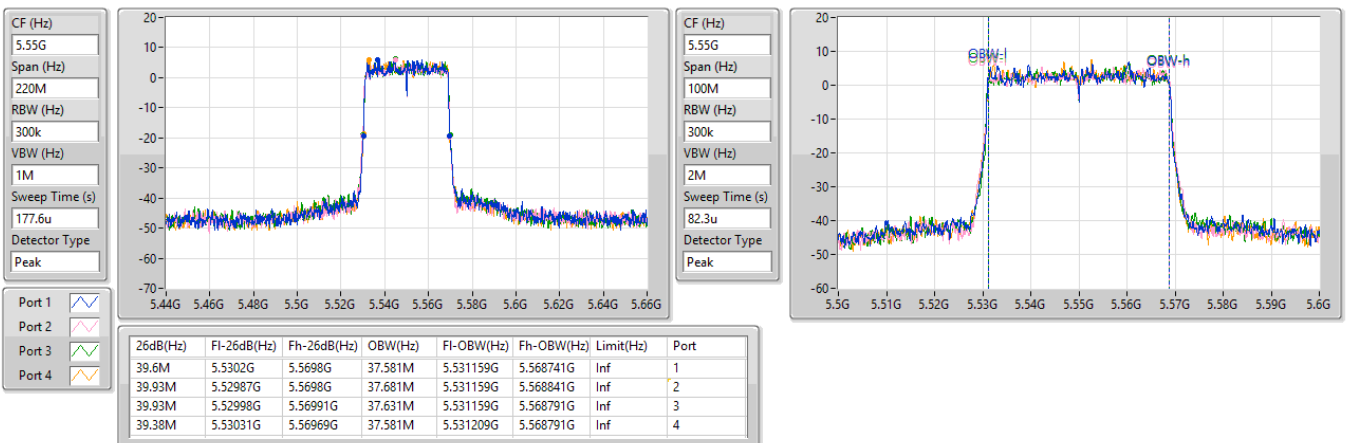


5.47-5.725GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5550MHz

30/01/2024



5.47-5.725GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5670MHz

30/01/2024

CF (Hz)  
5.67G

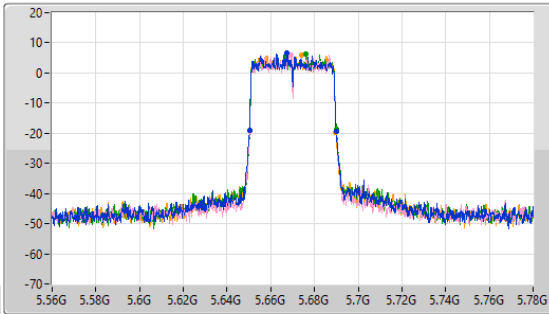
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.67G

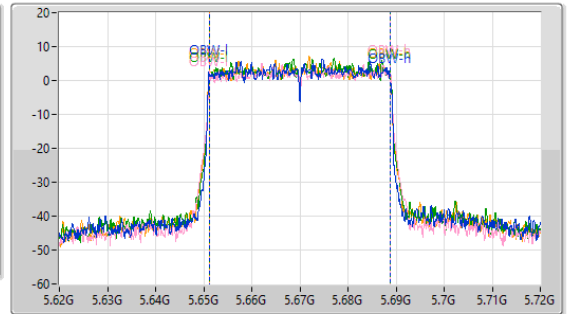
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

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
39.6M	5.65031G	5.68991G	37.581M	5.651159G	5.688741G	Inf	1
39.6M	5.65031G	5.68991G	37.631M	5.651259G	5.688891G	Inf	2
39.71M	5.65031G	5.69002G	37.531M	5.651259G	5.688791G	Inf	3
39.49M	5.65031G	5.6899G	37.581M	5.651209G	5.688791G	Inf	4

5.47-5.725GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

30/01/2024

CF (Hz)  
5.69G

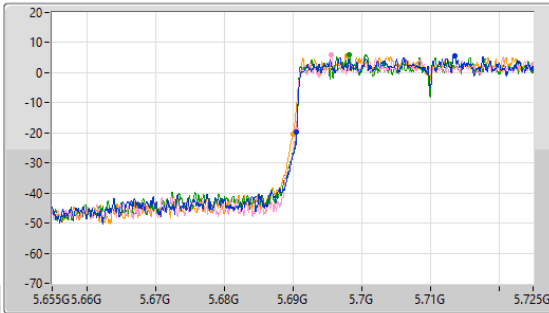
Span (Hz)  
70M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
56.8u

Detector Type  
Peak



CF (Hz)  
5.69G

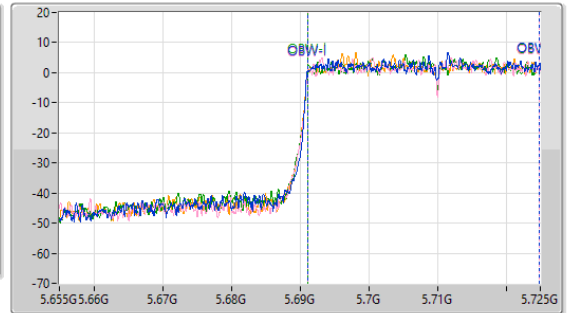
Span (Hz)  
70M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
56.8u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

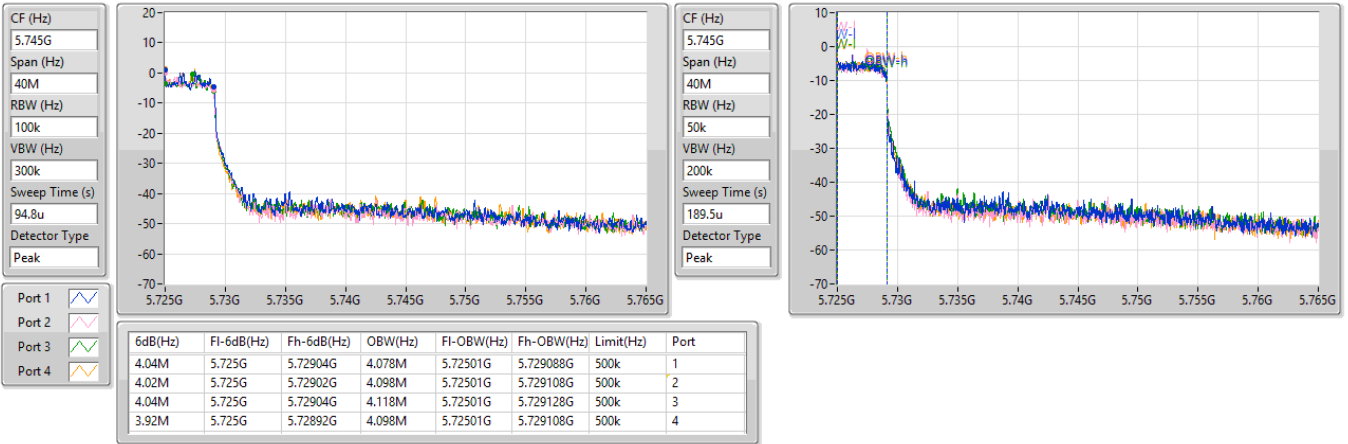
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.405M	5.690595G	5.725G	33.653M	5.691154G	5.724808G	Inf	1
34.44M	5.69056G	5.725G	33.583M	5.691189G	5.724773G	Inf	2
34.44M	5.69056G	5.725G	33.618M	5.691154G	5.724773G	Inf	3
34.965M	5.690035G	5.725G	33.618M	5.691189G	5.724808G	Inf	4

5.725-5.85GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

30/01/2024

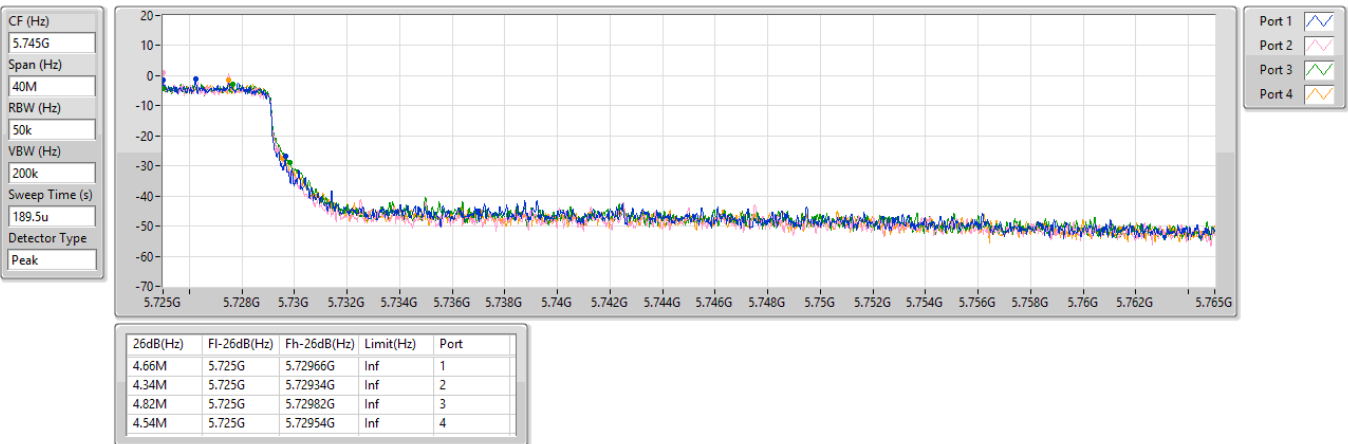


5.725-5.85GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

30/01/2024



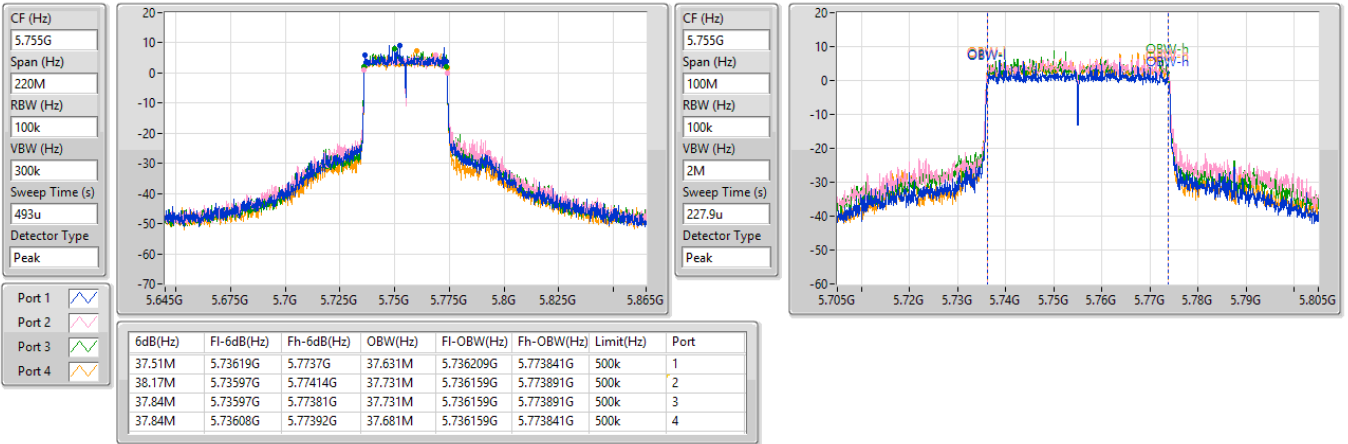


5.725-5.85GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5755MHz

30/01/2024

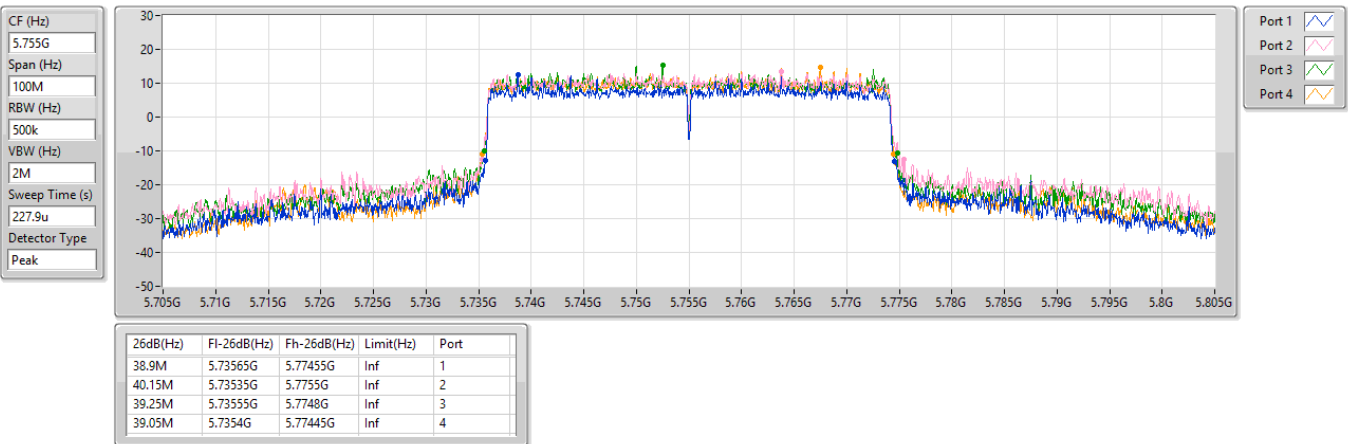


5.725-5.85GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5755MHz

30/01/2024

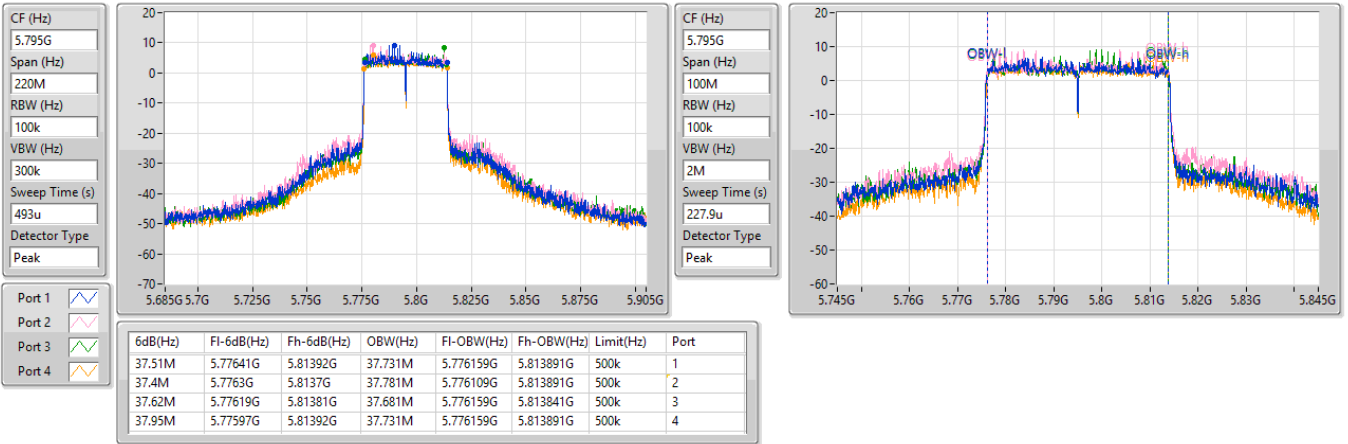


5.725-5.85GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5795MHz

30/01/2024

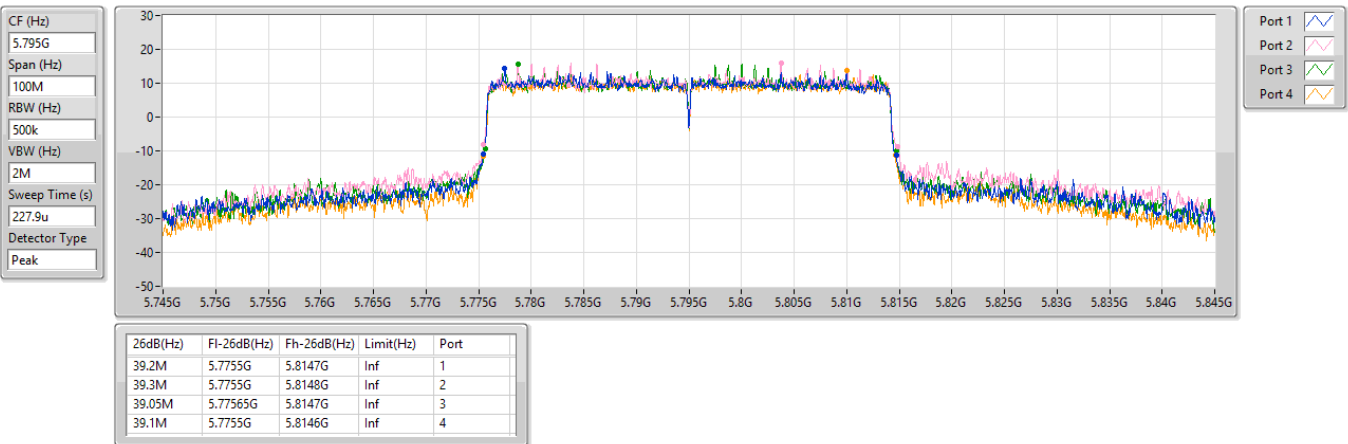


5.725-5.85GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5795MHz

30/01/2024



5.15-5.25GHz\_802.11ax\_HEW80\_Nss1,(MCS0)\_4TX

EBW

5210MHz

30/01/2024

CF (Hz)  
5.21G

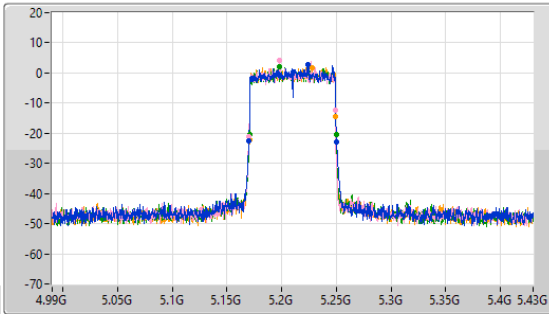
Span (Hz)  
440M

RBW (Hz)  
300k

VBW (Hz)  
3M

Sweep Time (s)  
354u

Detector Type  
Peak



CF (Hz)  
5.21G

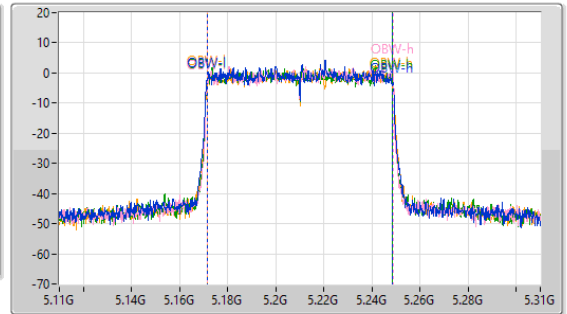
Span (Hz)  
200M

RBW (Hz)  
300k

VBW (Hz)  
3M

Sweep Time (s)  
164.6u

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
80.3M	5.16996G	5.25026G	77.061M	5.171419G	5.248481G	Inf	1
79.42M	5.16996G	5.24938G	77.261M	5.171619G	5.248881G	Inf	2
79.42M	5.1704G	5.24982G	77.061M	5.171519G	5.248581G	Inf	3
78.98M	5.1704G	5.24938G	77.161M	5.171519G	5.248681G	Inf	4

5.25-5.35GHz\_802.11ax\_HEW80\_Nss1,(MCS0)\_4TX

EBW

5290MHz

30/01/2024

CF (Hz)  
5.29G

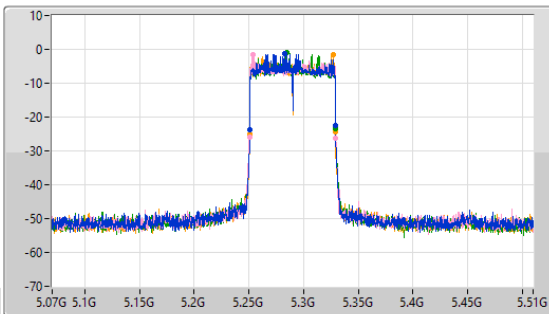
Span (Hz)  
440M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
986u

Detector Type  
Peak



CF (Hz)  
5.29G

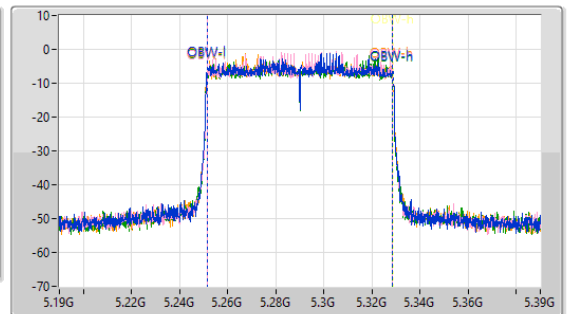
Span (Hz)  
200M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
455.1u

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
78.76M	5.25062G	5.32938G	77.161M	5.251419G	5.328581G	Inf	1
79.2M	5.2504G	5.3296G	76.962M	5.251519G	5.328481G	Inf	2
78.98M	5.2504G	5.32938G	77.061M	5.251419G	5.328481G	Inf	3
78.76M	5.25062G	5.32938G	76.962M	5.251519G	5.328481G	Inf	4

5.47-5.725GHz\_802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5530MHz

30/01/2024

CF (Hz)  
5.53G

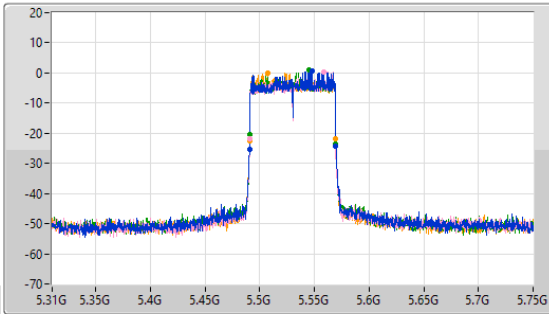
Span (Hz)  
440M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
986u

Detector Type  
Peak



CF (Hz)  
5.53G

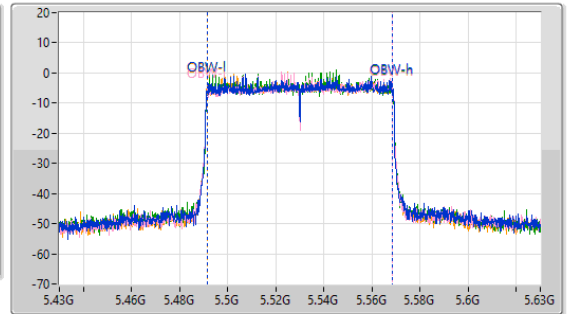
Span (Hz)  
200M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
455.1u

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
79.2M	5.4904G	5.5696G	77.161M	5.491419G	5.568581G	Inf	1
78.76M	5.49062G	5.56938G	77.161M	5.491419G	5.568581G	Inf	2
78.98M	5.49062G	5.5696G	77.061M	5.491519G	5.568581G	Inf	3
78.76M	5.49062G	5.56938G	77.061M	5.491419G	5.568481G	Inf	4

5.47-5.725GHz\_802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5610MHz

30/01/2024

CF (Hz)  
5.61G

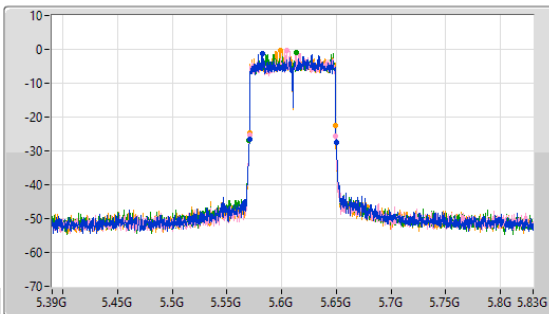
Span (Hz)  
440M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
986u

Detector Type  
Peak



CF (Hz)  
5.61G

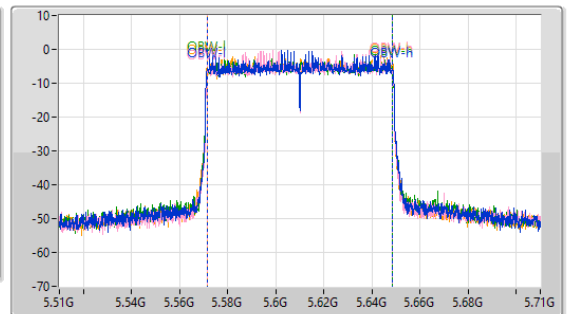
Span (Hz)  
200M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
455.1u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

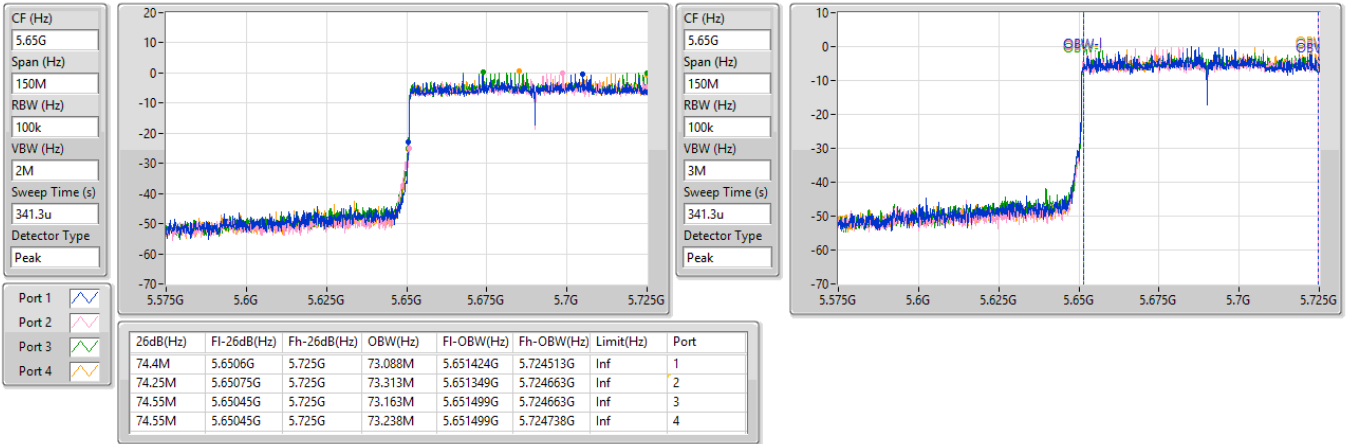
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
79.42M	5.5704G	5.64982G	77.061M	5.571519G	5.648581G	Inf	1
79.2M	5.5704G	5.6496G	77.061M	5.571519G	5.648581G	Inf	2
79.42M	5.57018G	5.6496G	76.962M	5.571519G	5.648481G	Inf	3
78.98M	5.5704G	5.64938G	77.261M	5.571419G	5.648681G	Inf	4

5.47-5.725GHz\_802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

30/01/2024

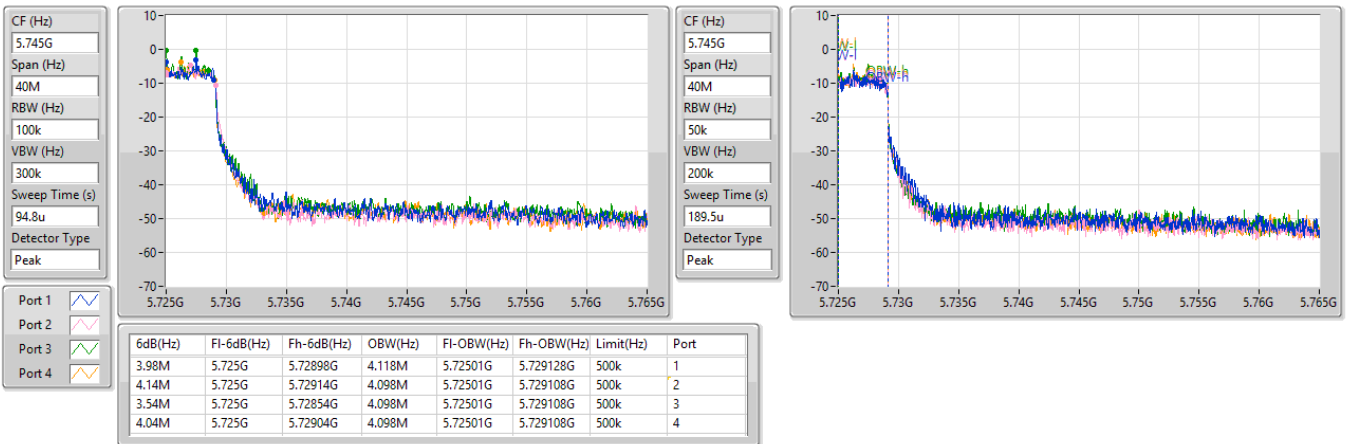


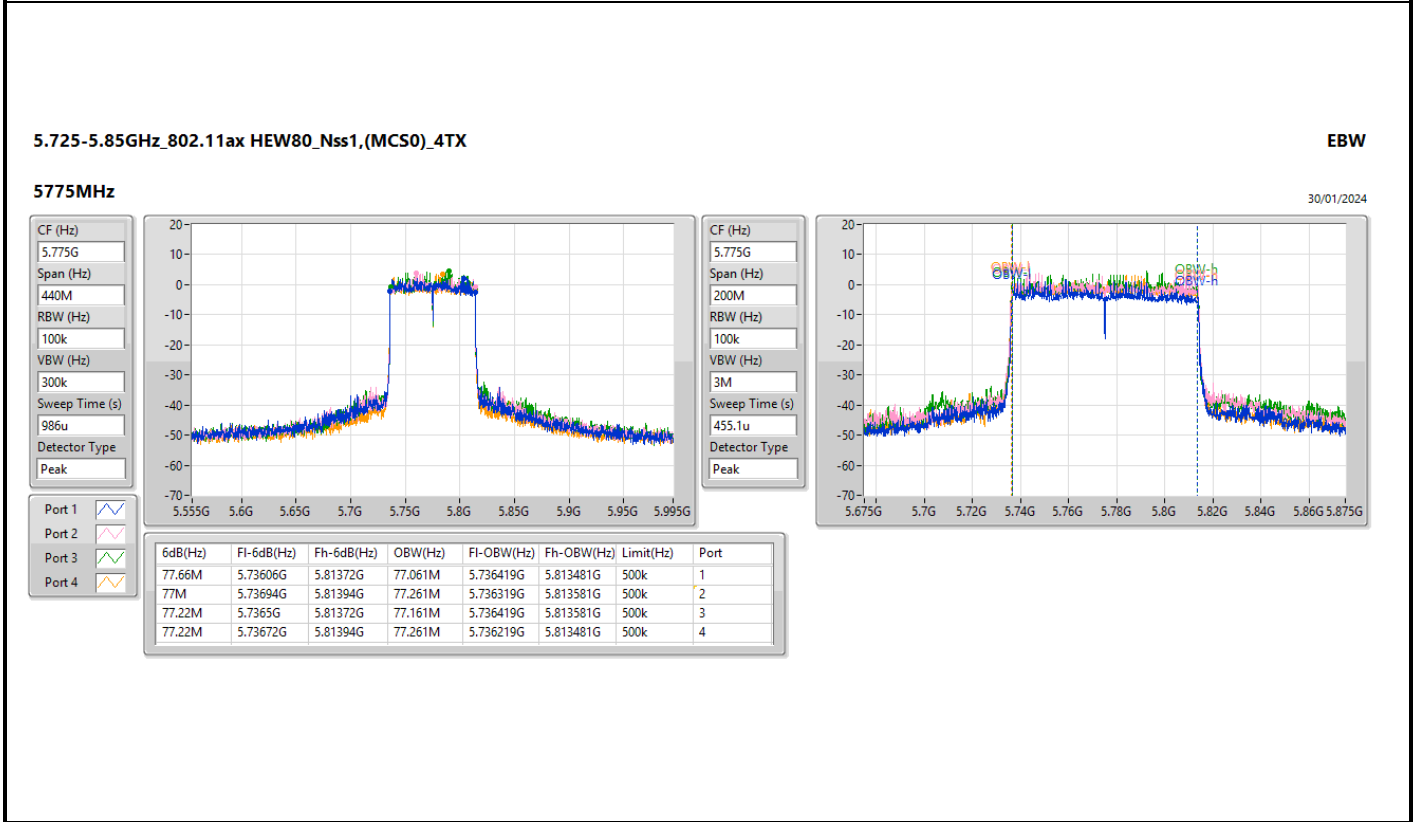
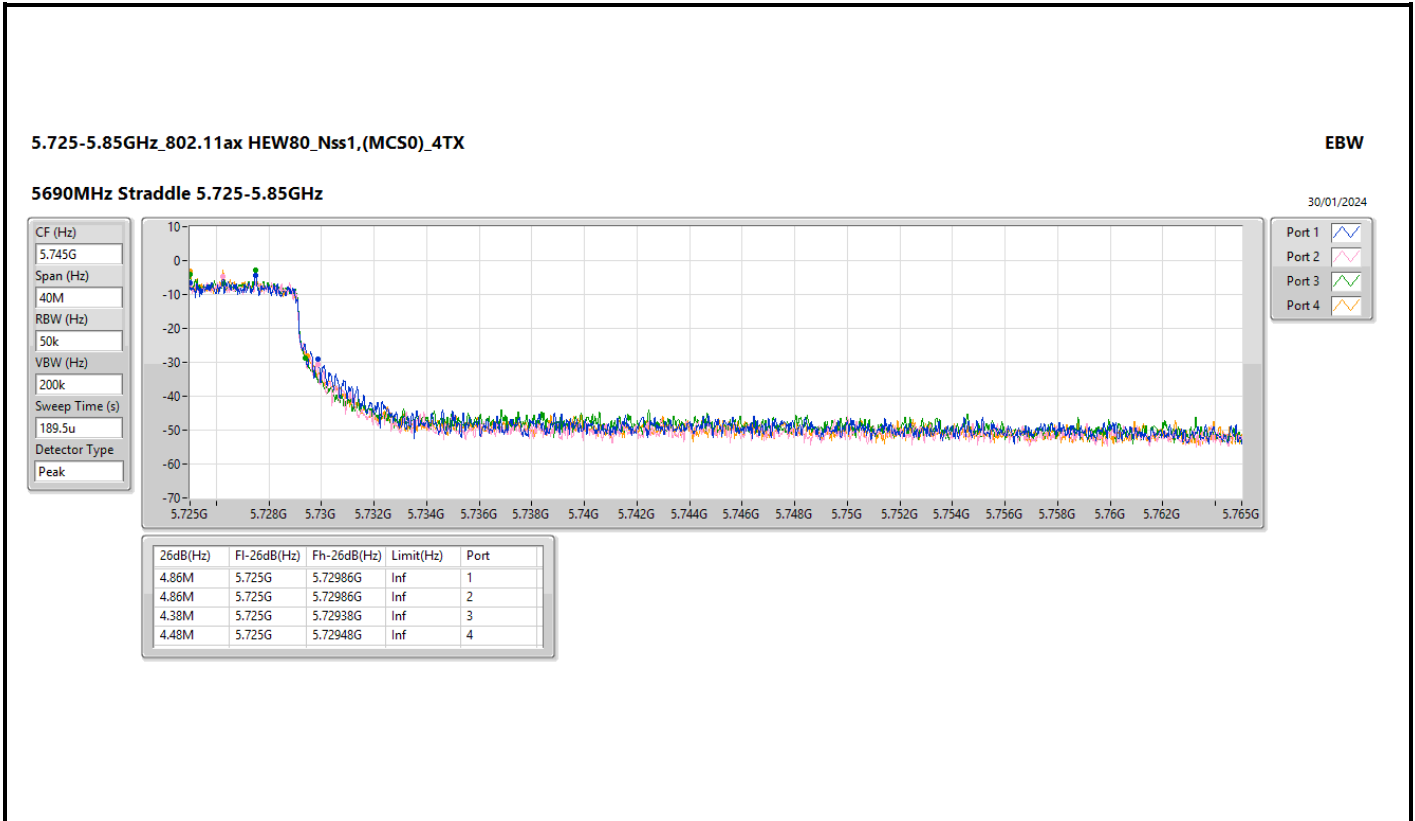
5.725-5.85GHz\_802.11ax HEW80\_Nss1,(MCS0)\_4TX

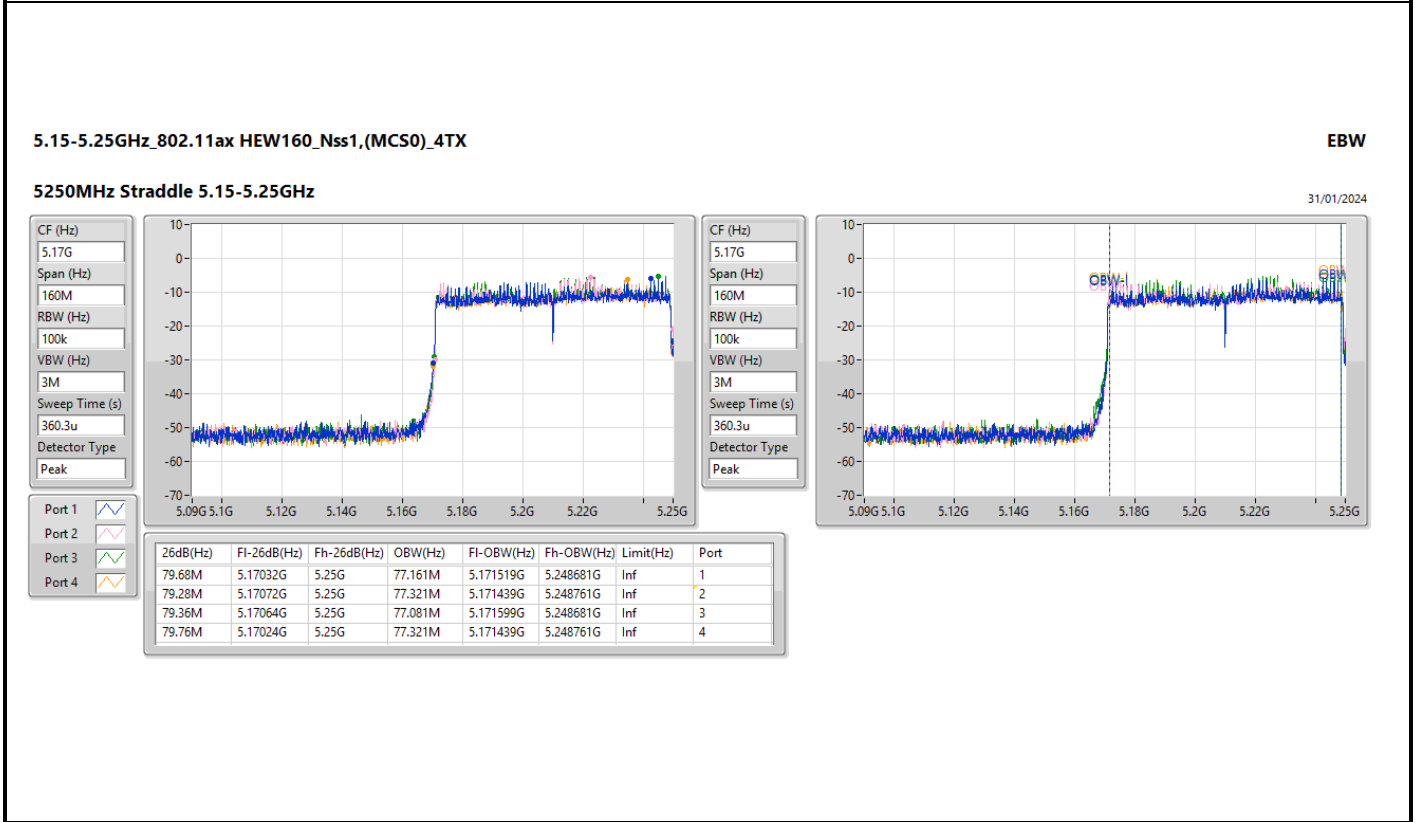
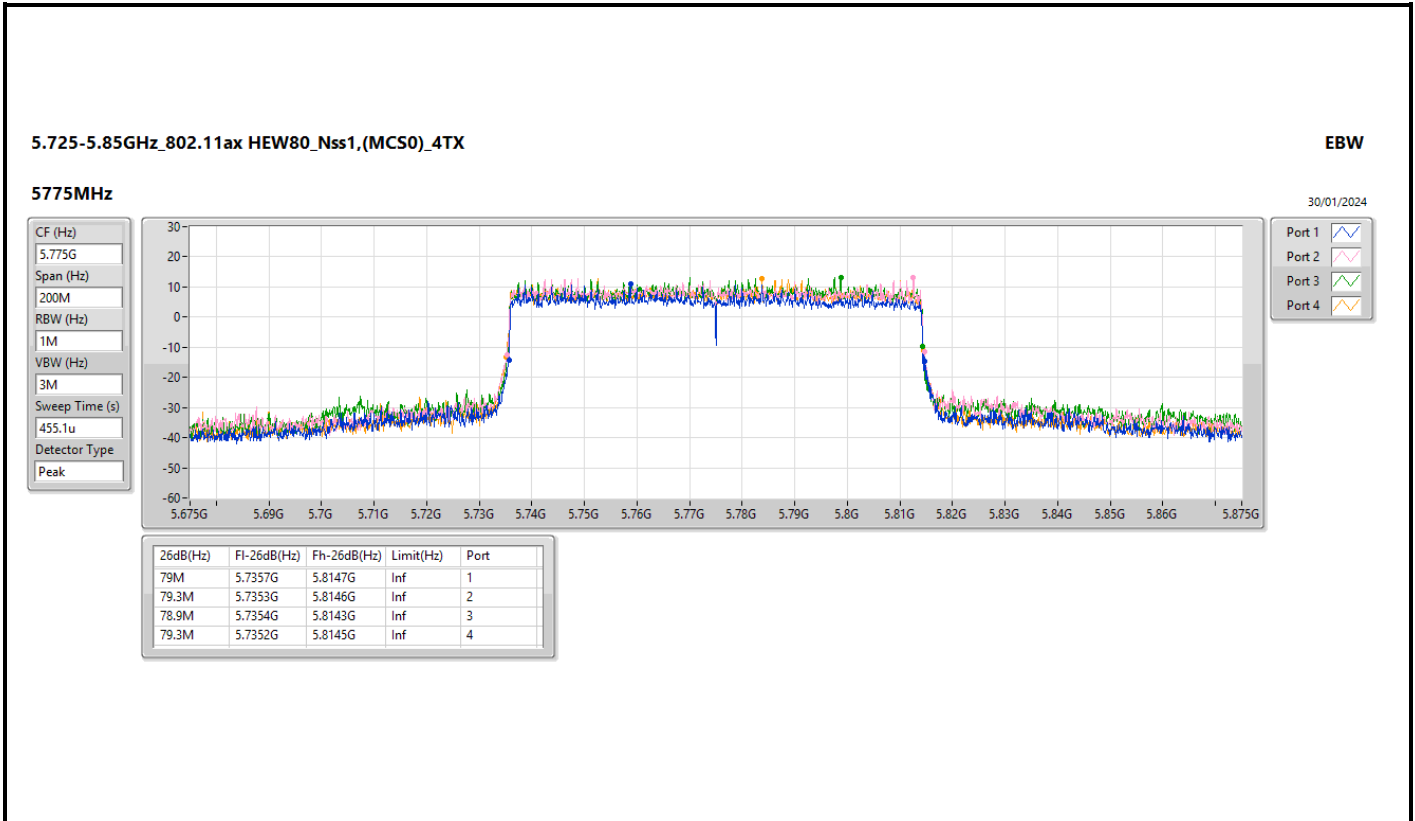
EBW

5690MHz Straddle 5.725-5.85GHz

30/01/2024





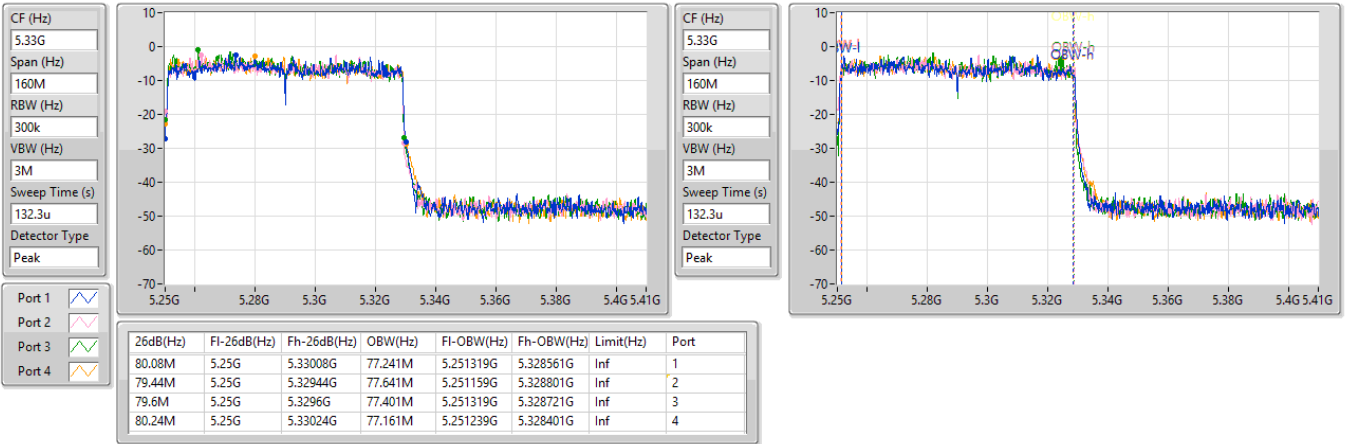


5.25-5.35GHz\_802.11ax HEW160\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

31/01/2024

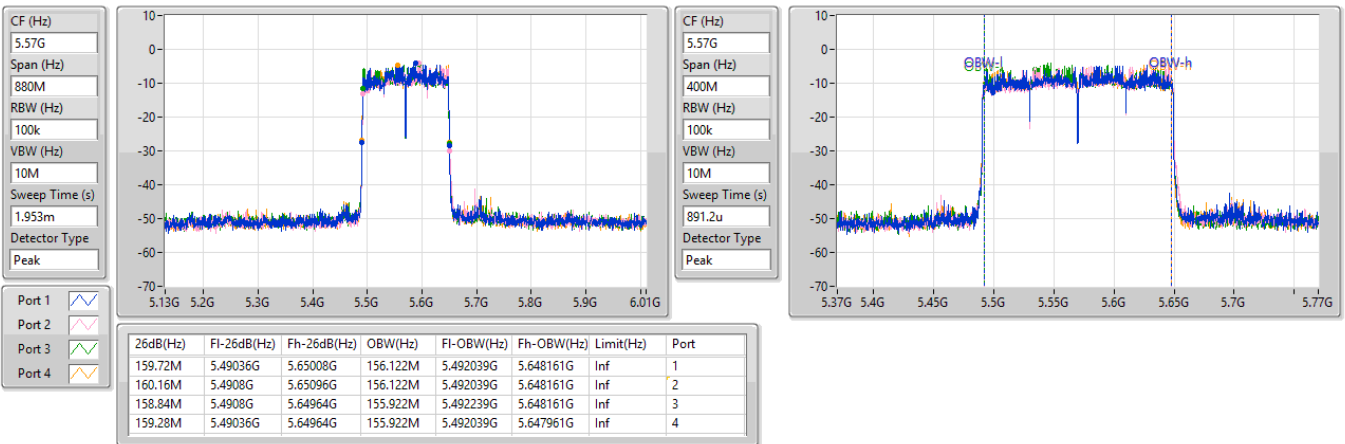


5.47-5.725GHz\_802.11ax HEW160\_Nss1,(MCS0)\_4TX

EBW

5570MHz

31/01/2024



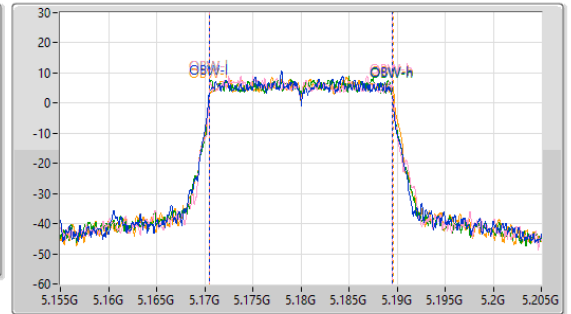
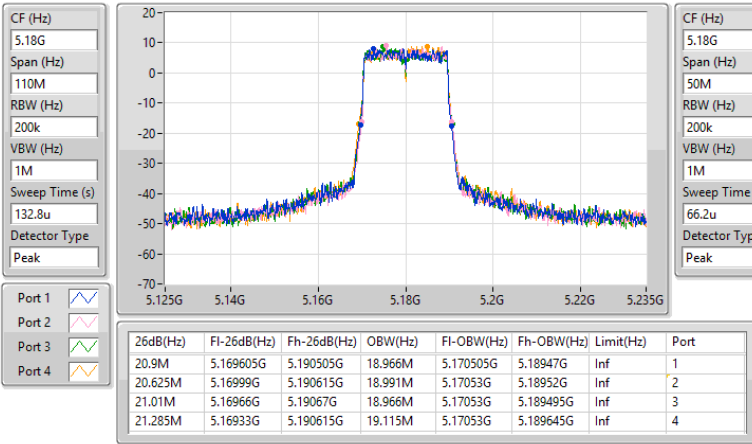


5.15-5.25GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5180MHz

31/01/2024

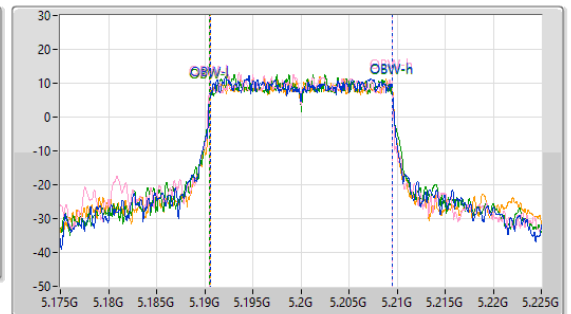
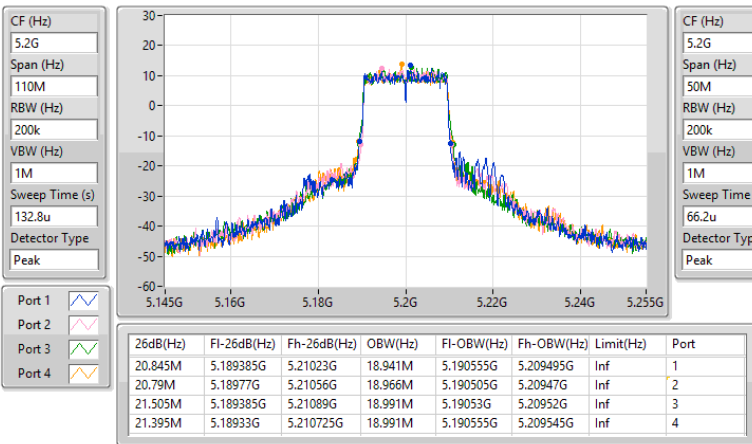


5.15-5.25GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5200MHz

31/01/2024

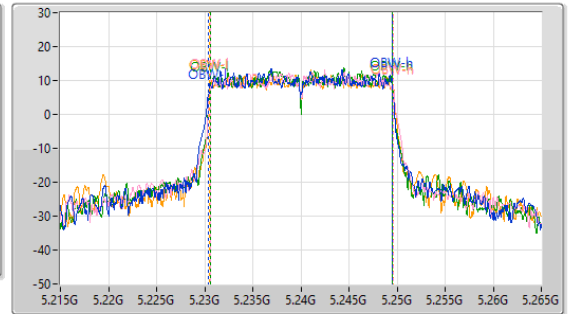
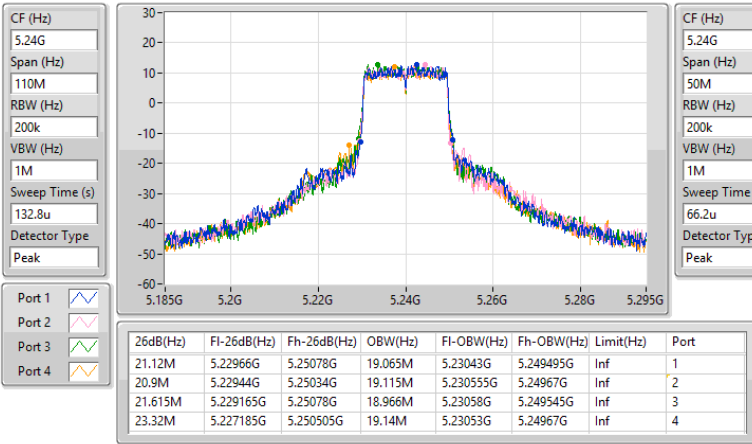


5.15-5.25GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5240MHz

31/01/2024

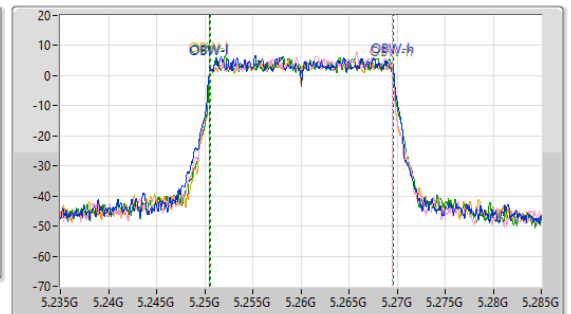
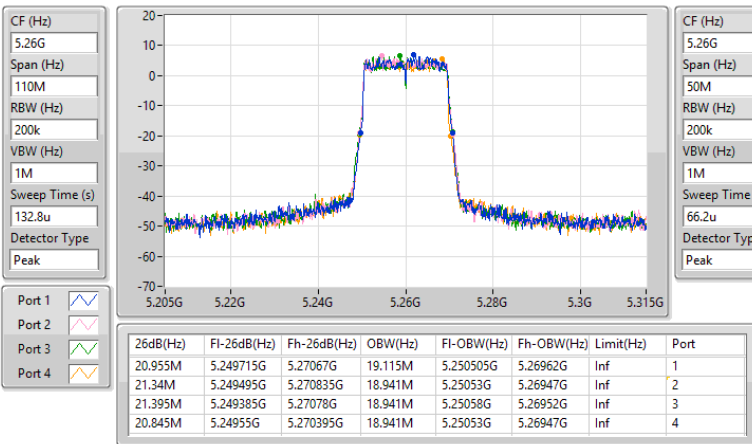


5.25-5.35GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5260MHz

31/01/2024

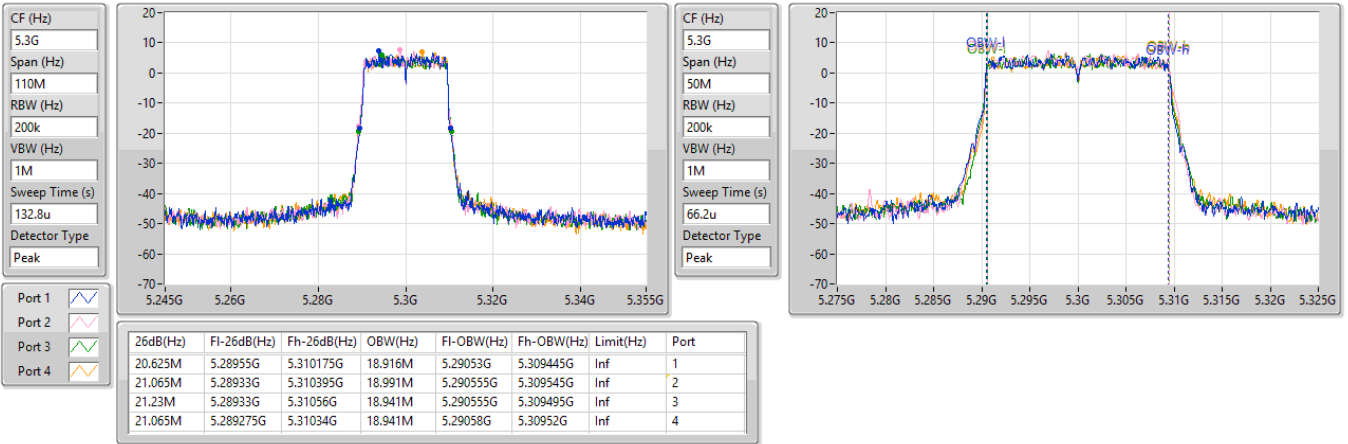


5.25-5.35GHz\_802.11ax\_HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5300MHz

31/01/2024

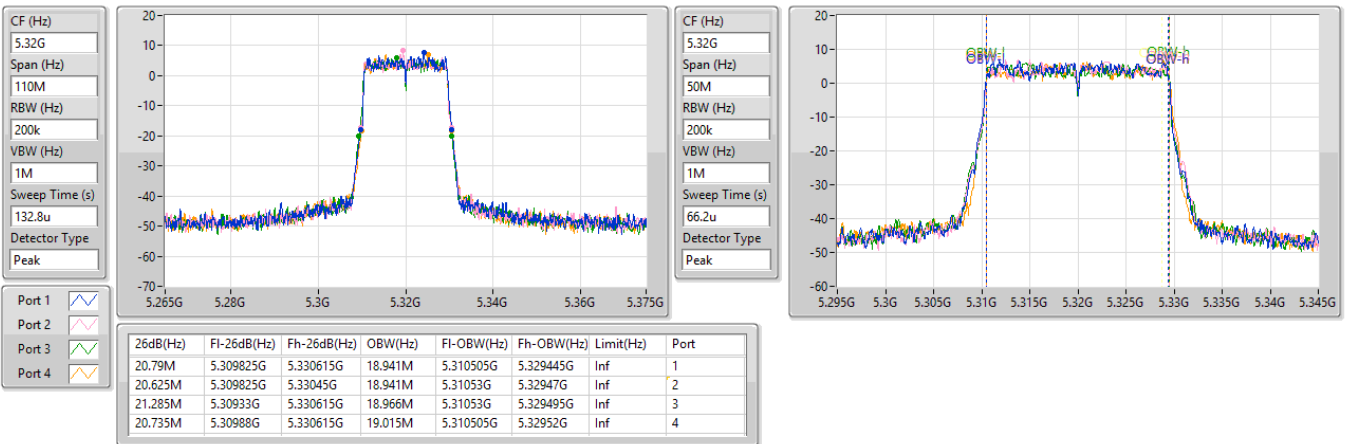


5.25-5.35GHz\_802.11ax\_HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5320MHz

31/01/2024

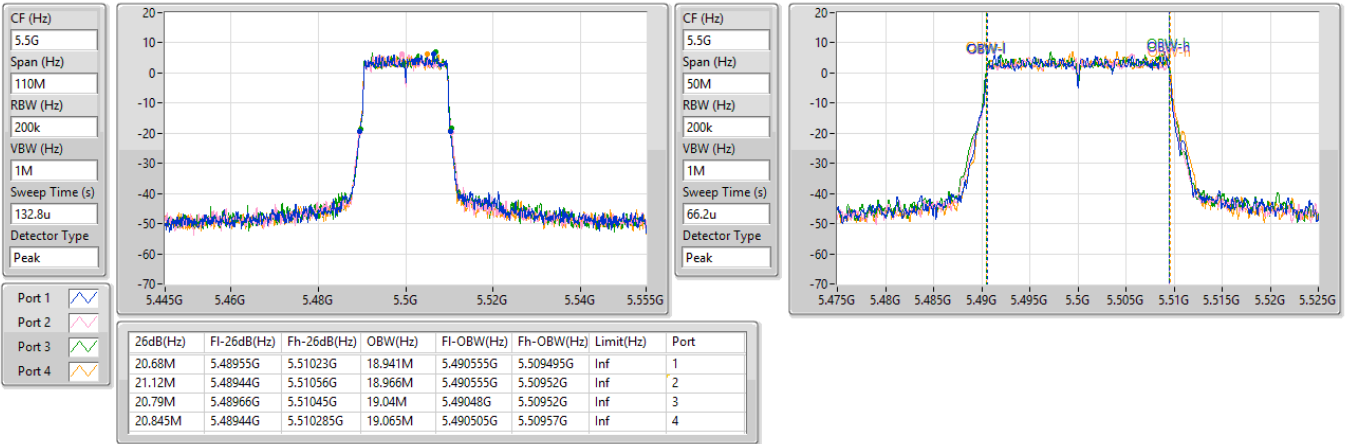


5.47-5.725GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5500MHz

31/01/2024

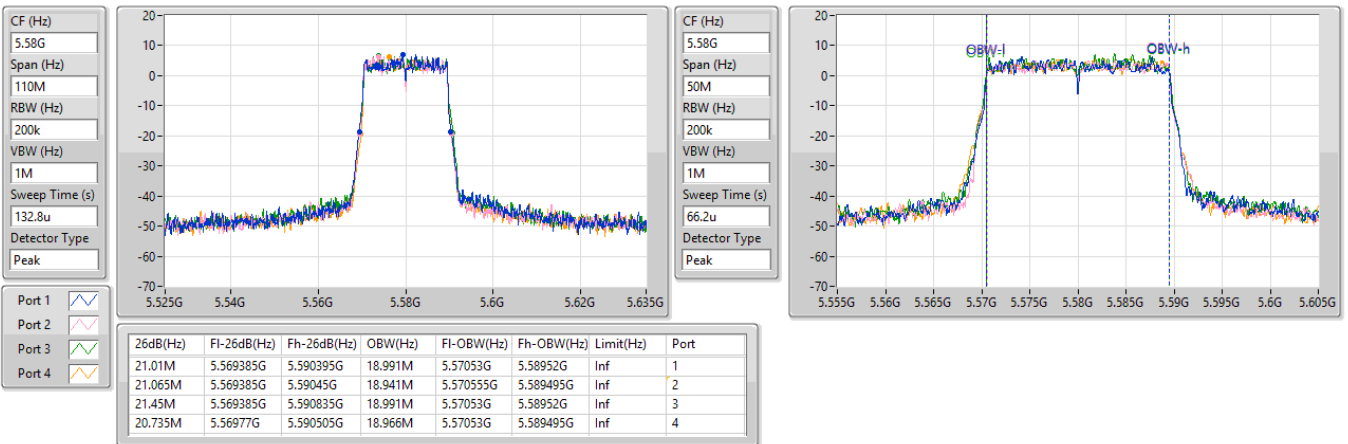


5.47-5.725GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5580MHz

31/01/2024

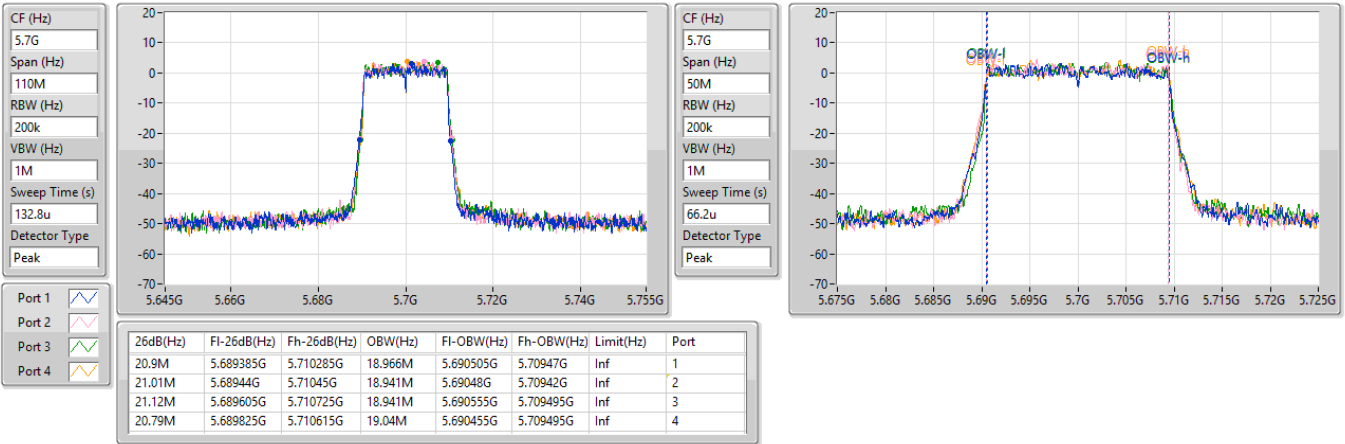


5.47-5.725GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5700MHz

31/01/2024

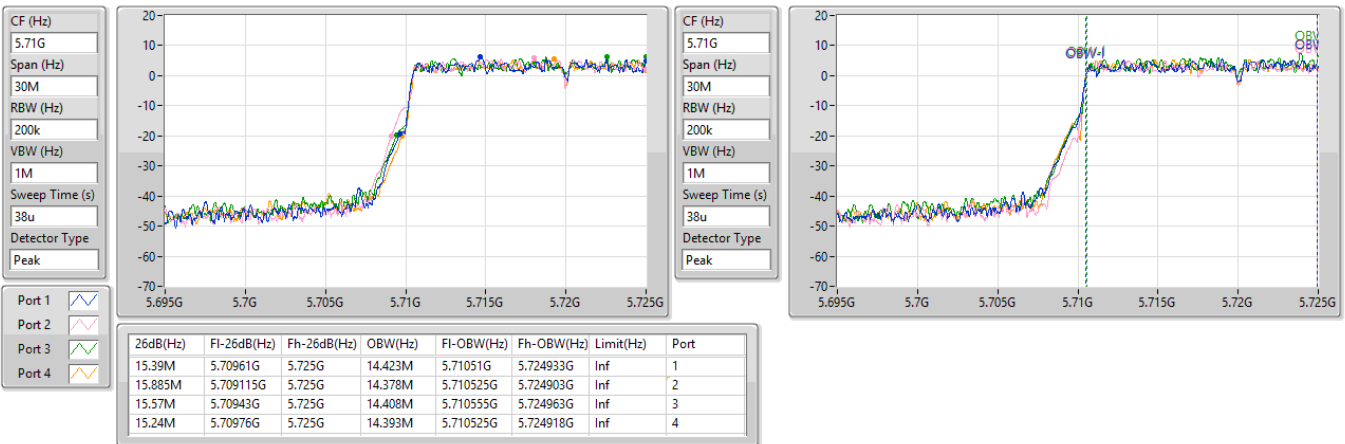


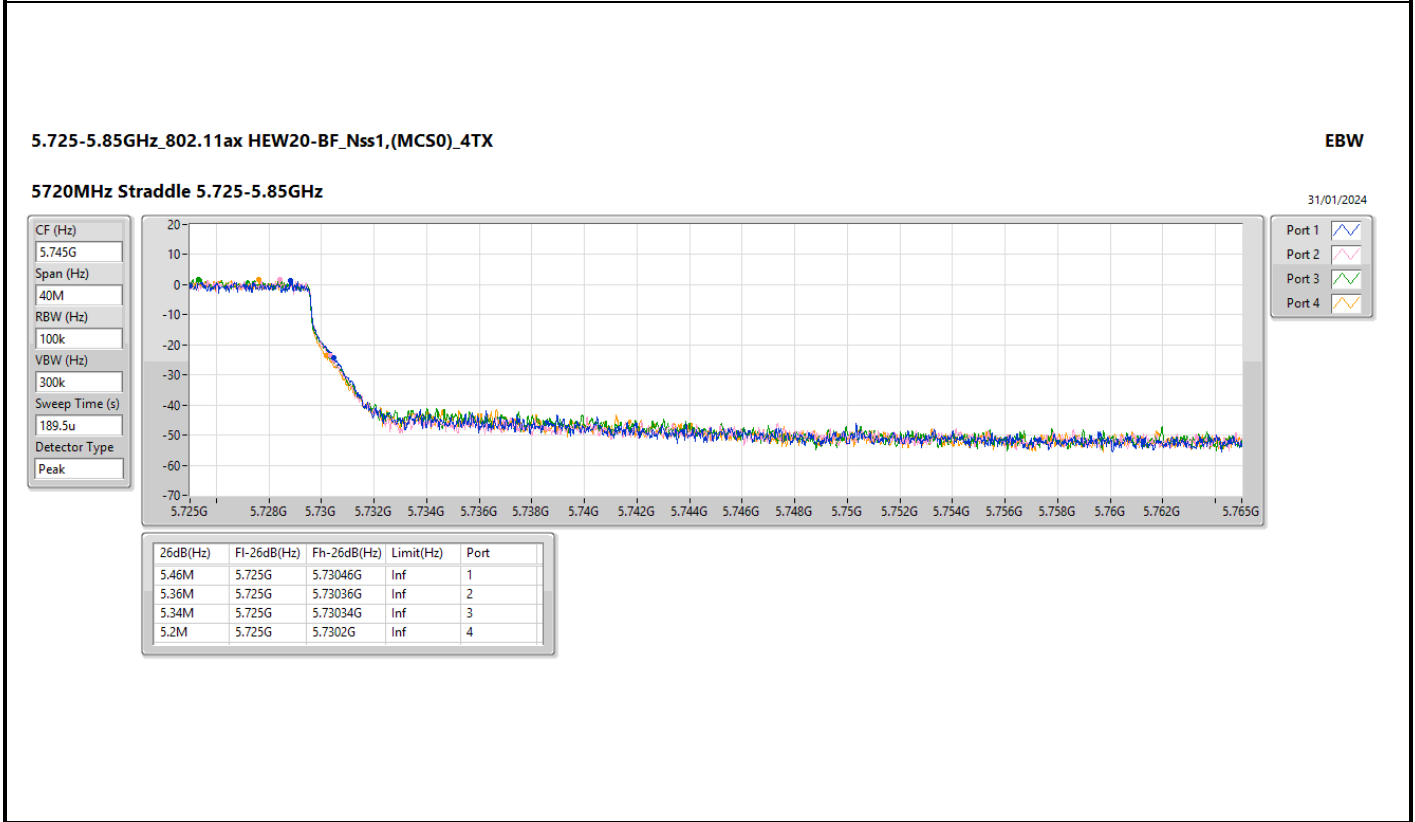
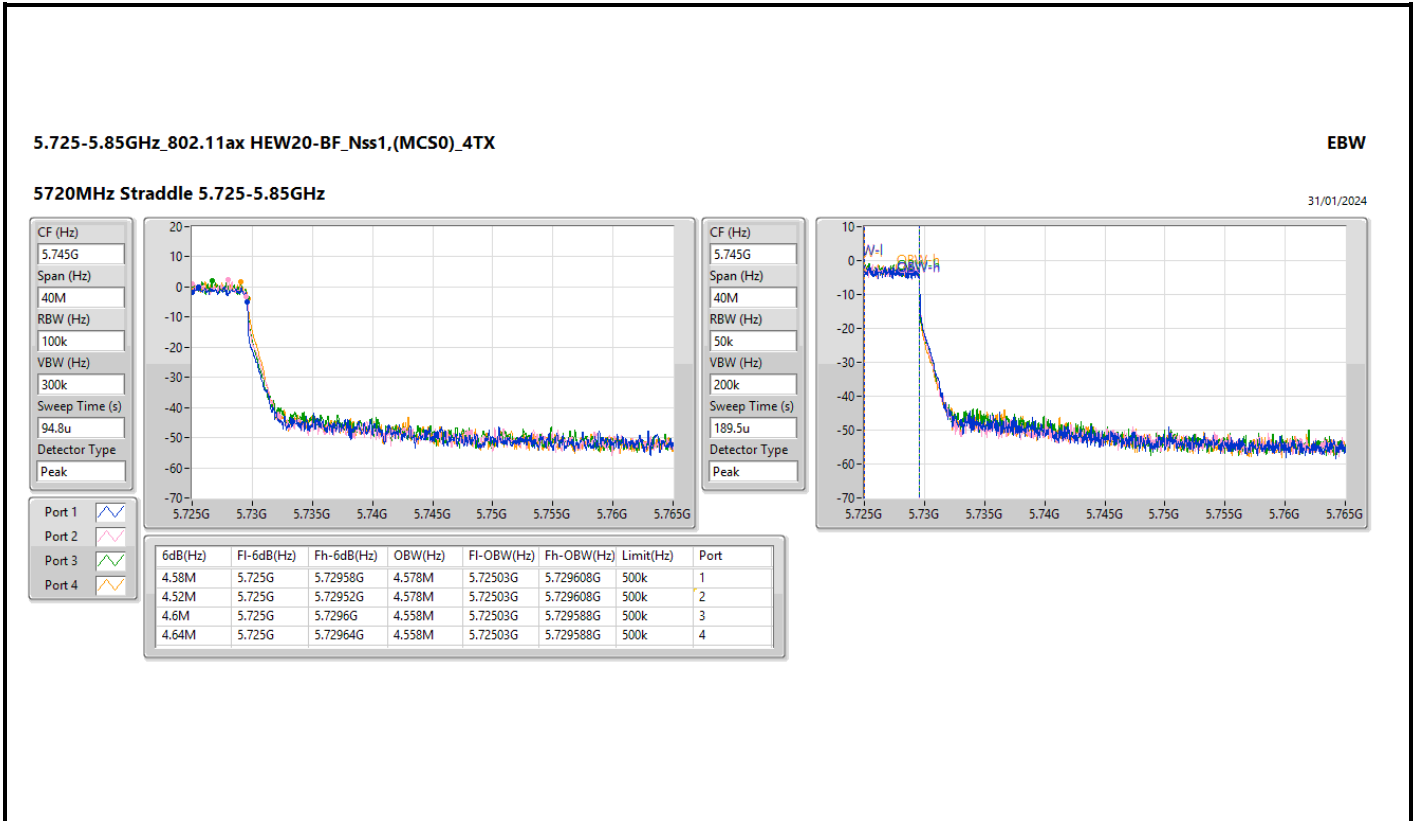
5.47-5.725GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

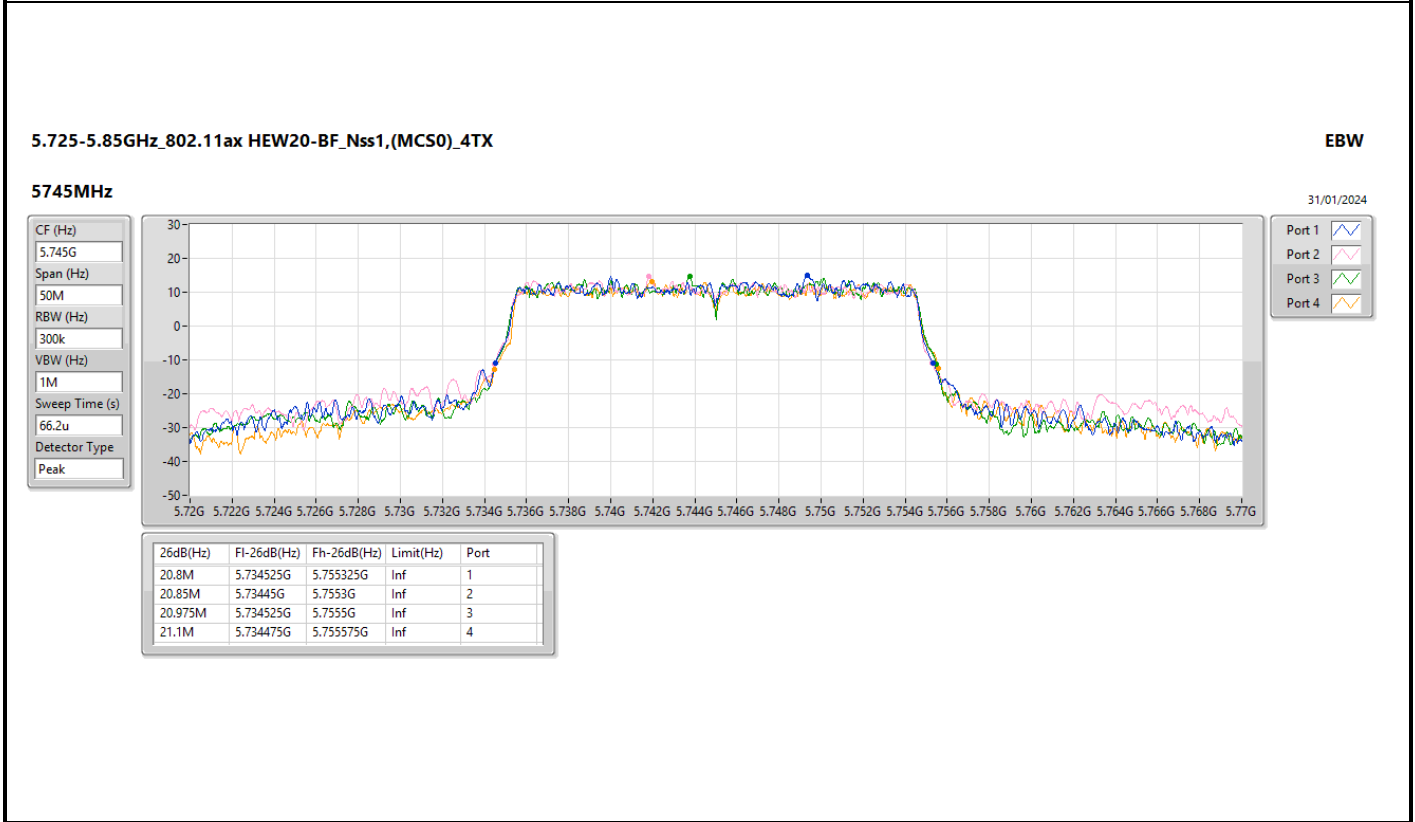
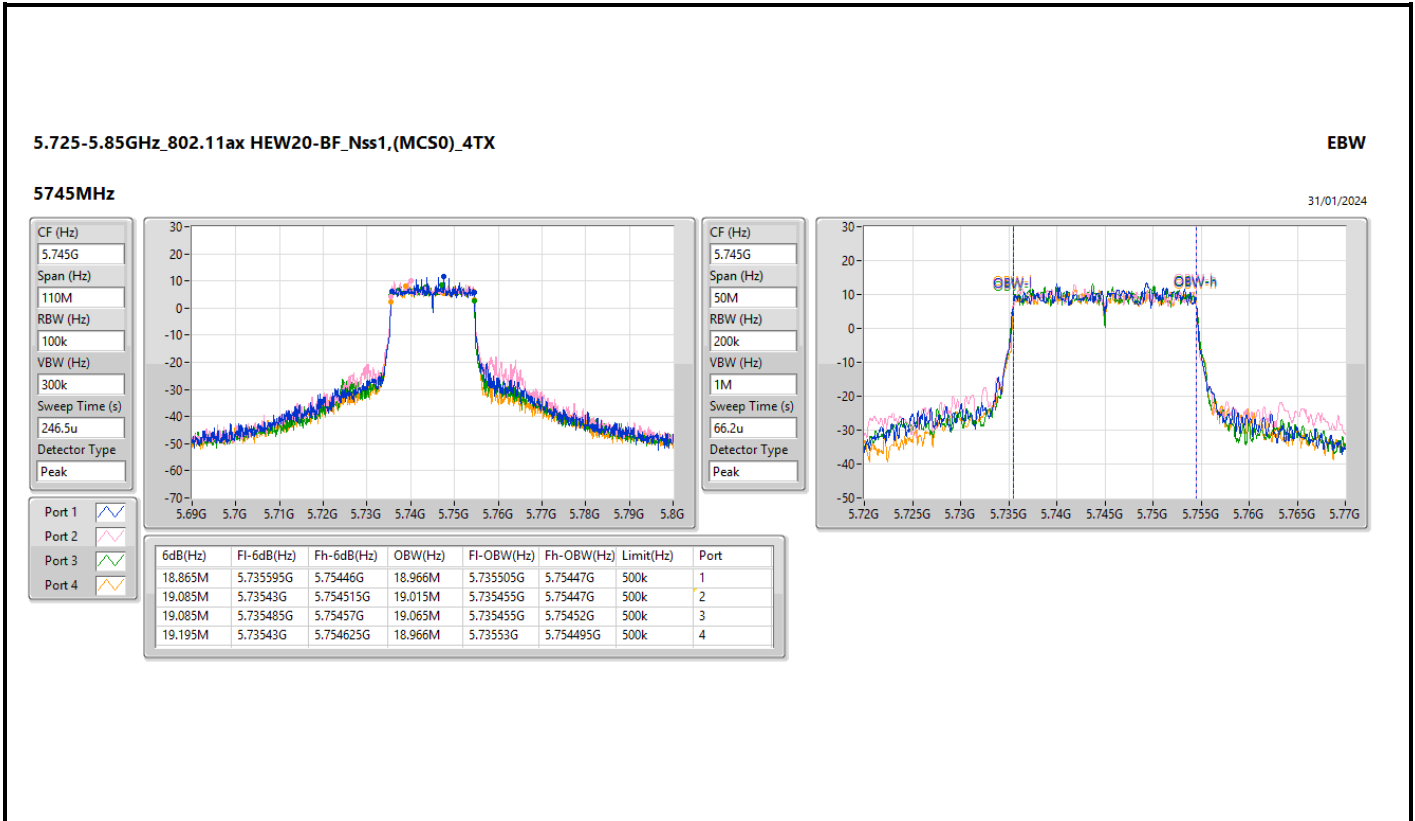
EBW

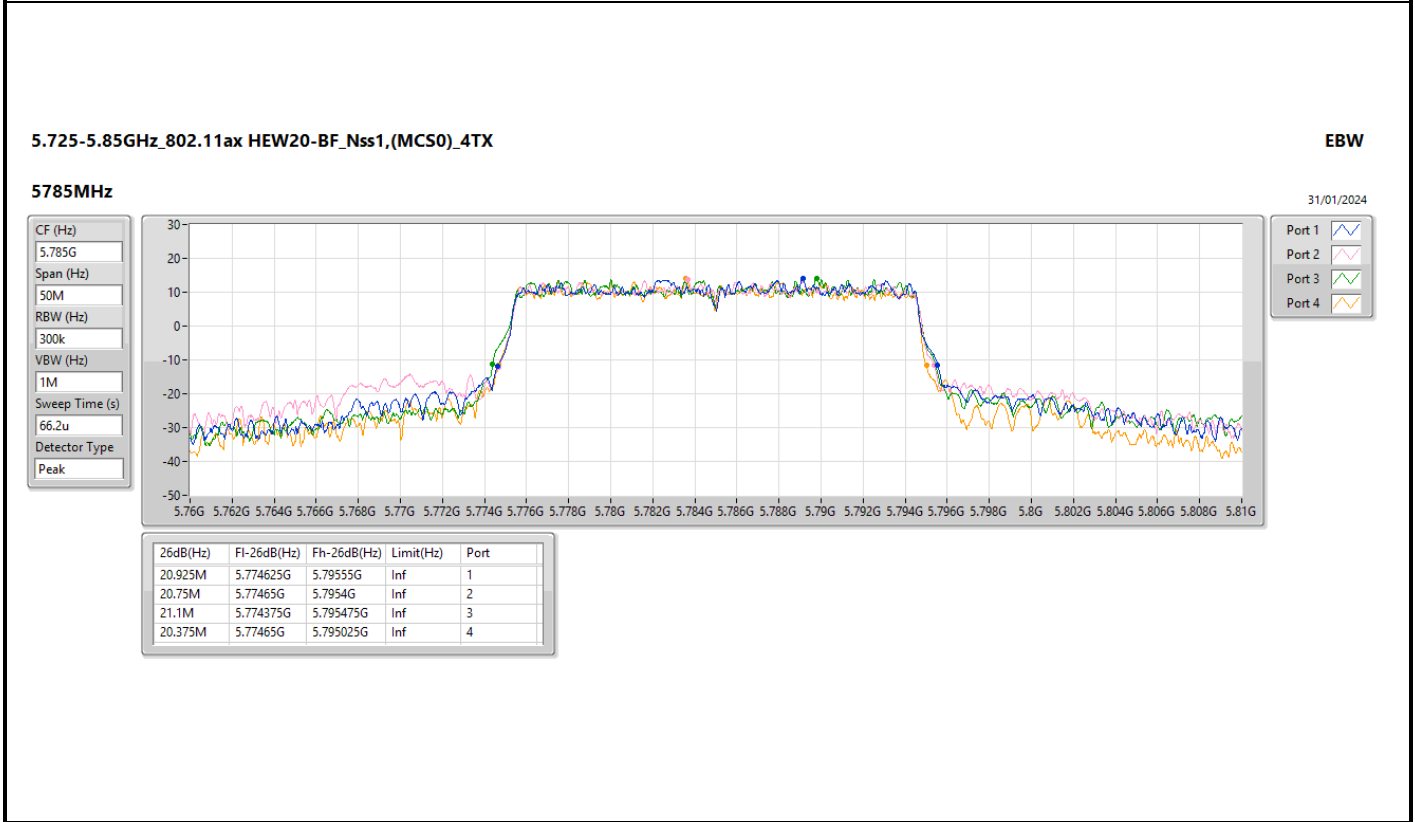
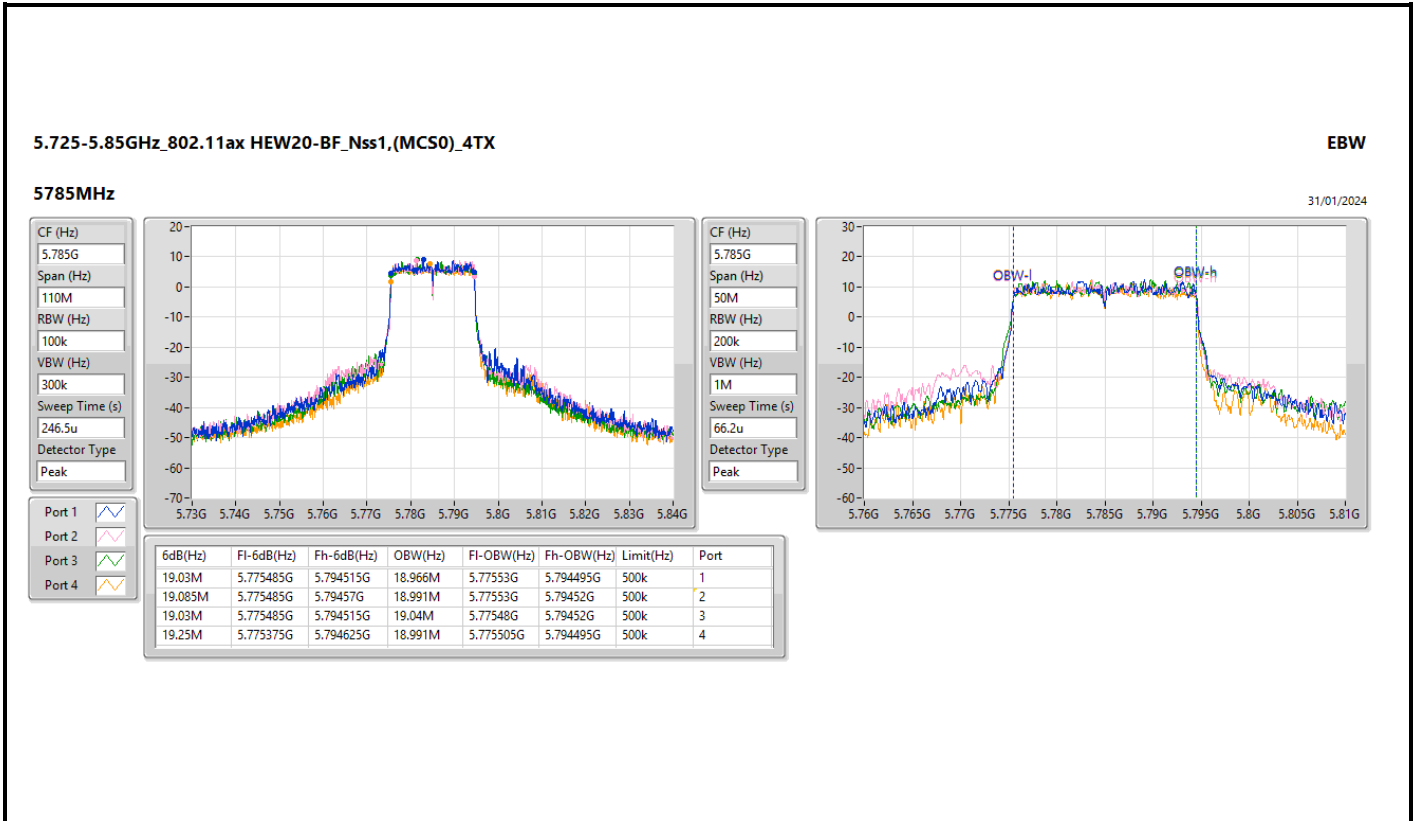
5720MHz Straddle 5.47-5.725GHz

31/01/2024









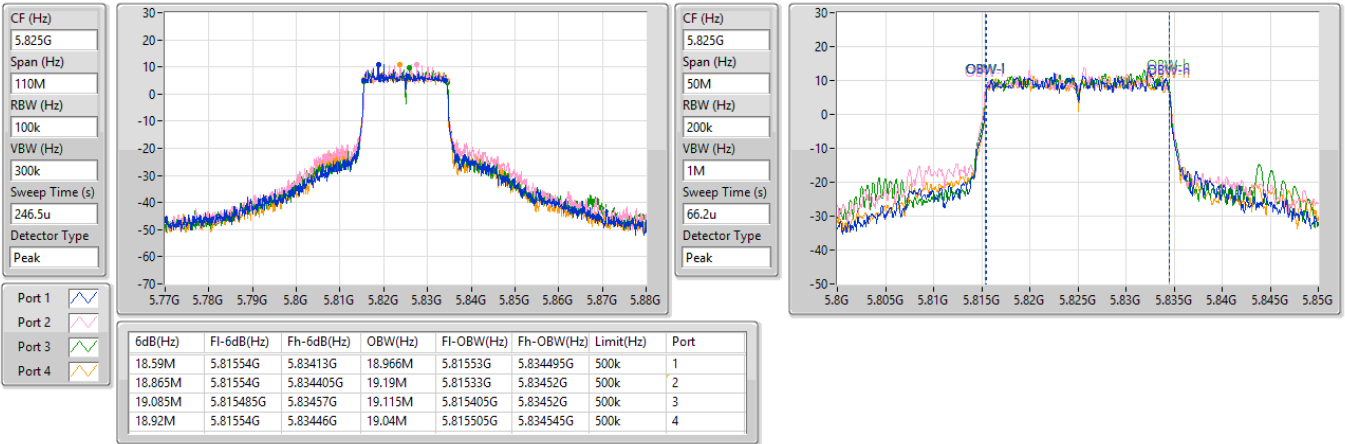


5.725-5.85GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5825MHz

31/01/2024

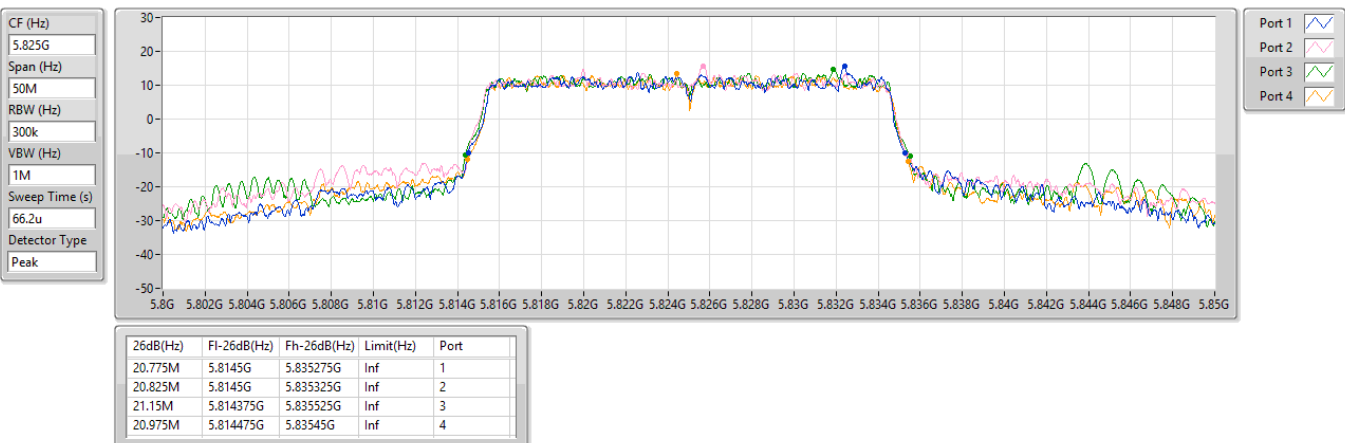


5.725-5.85GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

5825MHz

31/01/2024

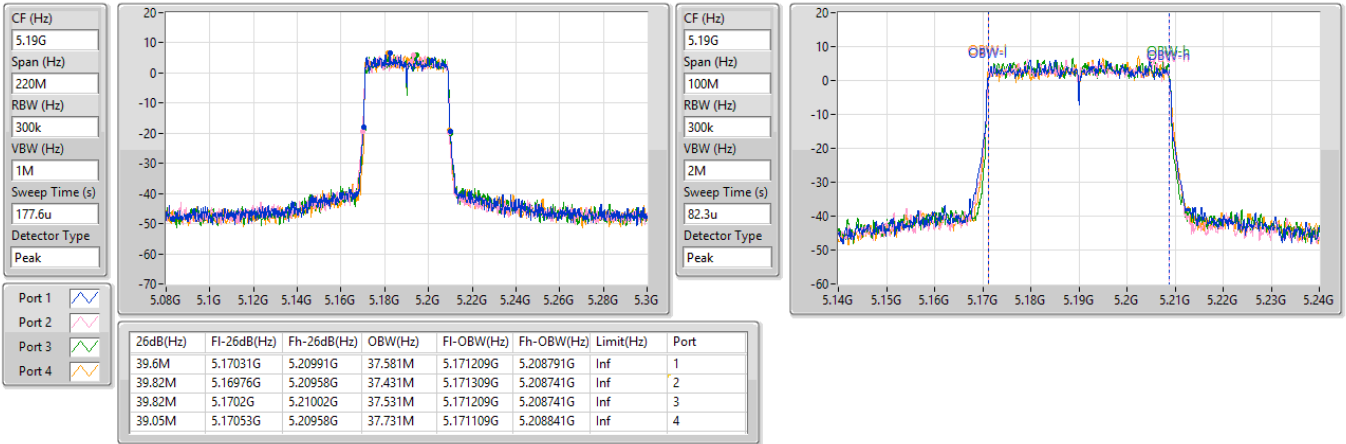


5.15-5.25GHz\_802.11ax\_HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5190MHz

31/01/2024

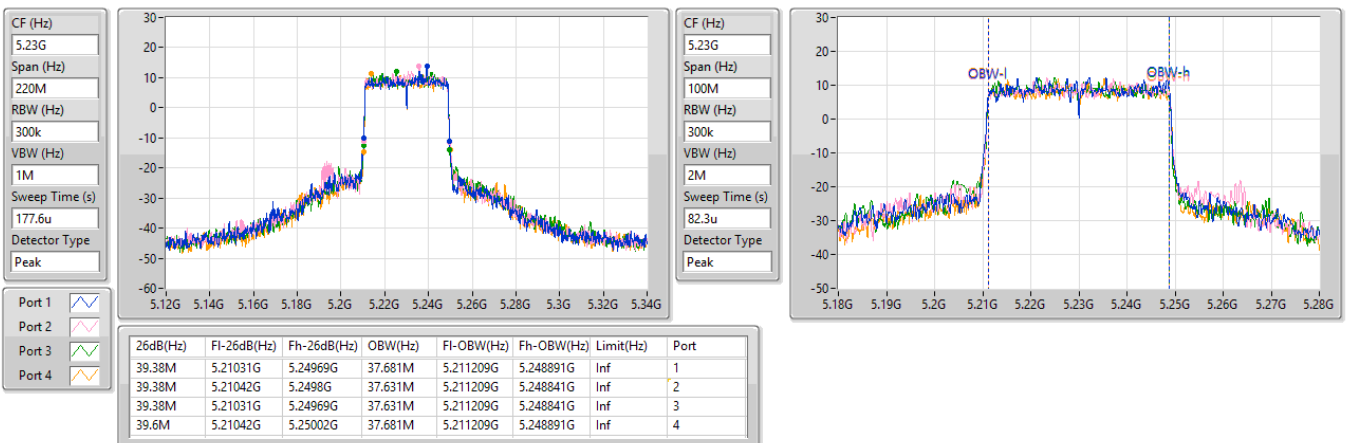


5.15-5.25GHz\_802.11ax\_HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5230MHz

31/01/2024



5.25-5.35GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5270MHz

31/01/2024

CF (Hz)  
5.27G

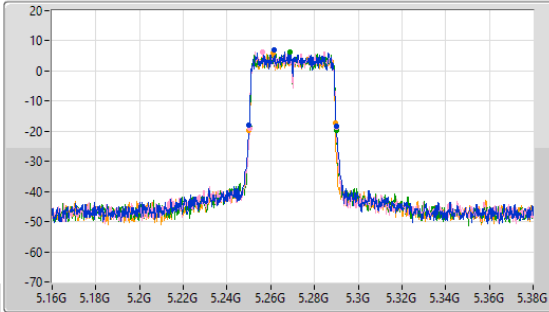
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.27G

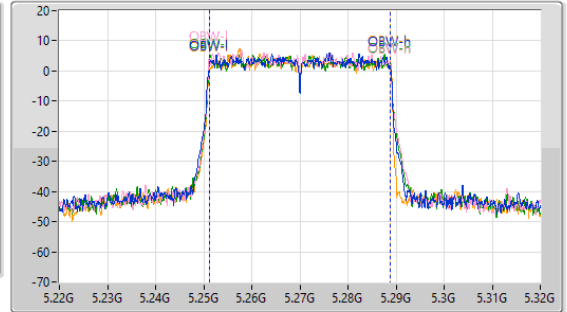
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

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
39.93M	5.25009G	5.29002G	37.631M	5.251159G	5.288791G	Inf	1
39.6M	5.25031G	5.28991G	37.581M	5.251109G	5.288691G	Inf	2
39.71M	5.2502G	5.28991G	37.581M	5.251209G	5.288791G	Inf	3
39.38M	5.25009G	5.28947G	37.631M	5.251259G	5.288891G	Inf	4

5.25-5.35GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5310MHz

31/01/2024

CF (Hz)  
5.31G

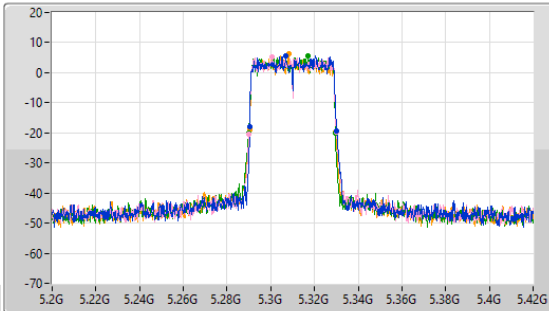
Span (Hz)  
220M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
177.6u

Detector Type  
Peak



CF (Hz)  
5.31G

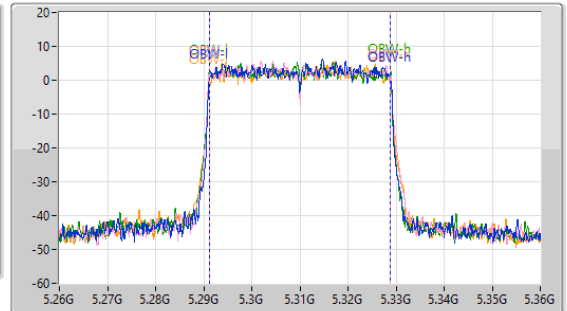
Span (Hz)  
100M

RBW (Hz)  
300k

VBW (Hz)  
2M

Sweep Time (s)  
82.3u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

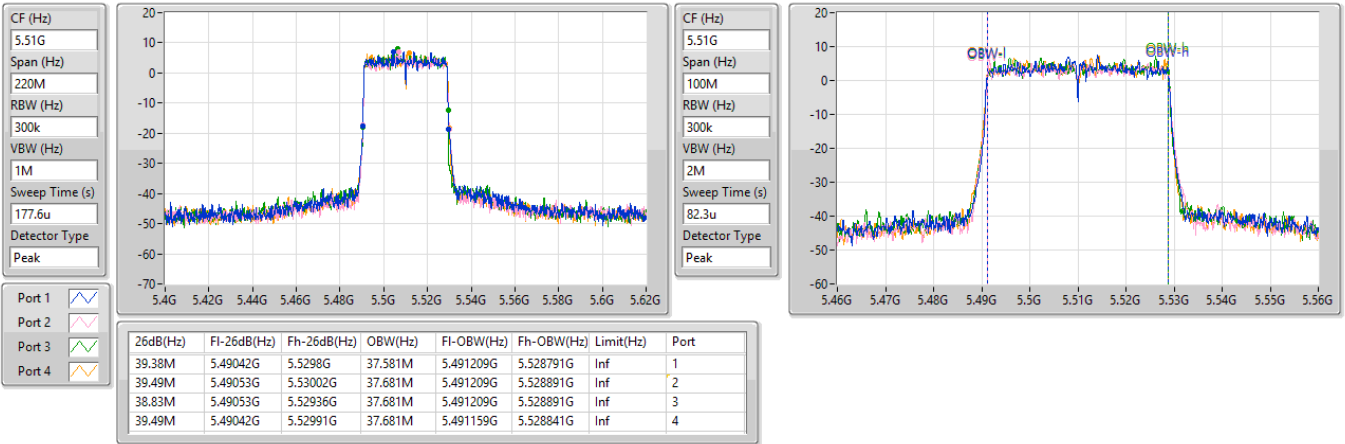
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.82M	5.29042G	5.33024G	37.531M	5.291259G	5.328791G	Inf	1
39.93M	5.29009G	5.33002G	37.731M	5.291159G	5.328891G	Inf	2
39.6M	5.28987G	5.32947G	37.781M	5.291109G	5.328891G	Inf	3
39.6M	5.2902G	5.3298G	37.681M	5.291159G	5.328841G	Inf	4

5.47-5.725GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5510MHz

31/01/2024

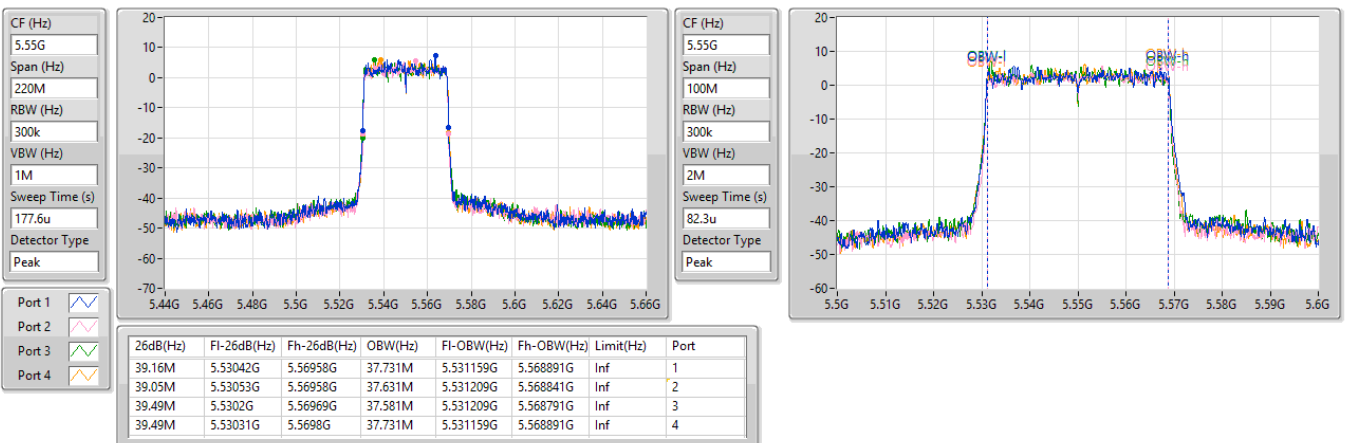


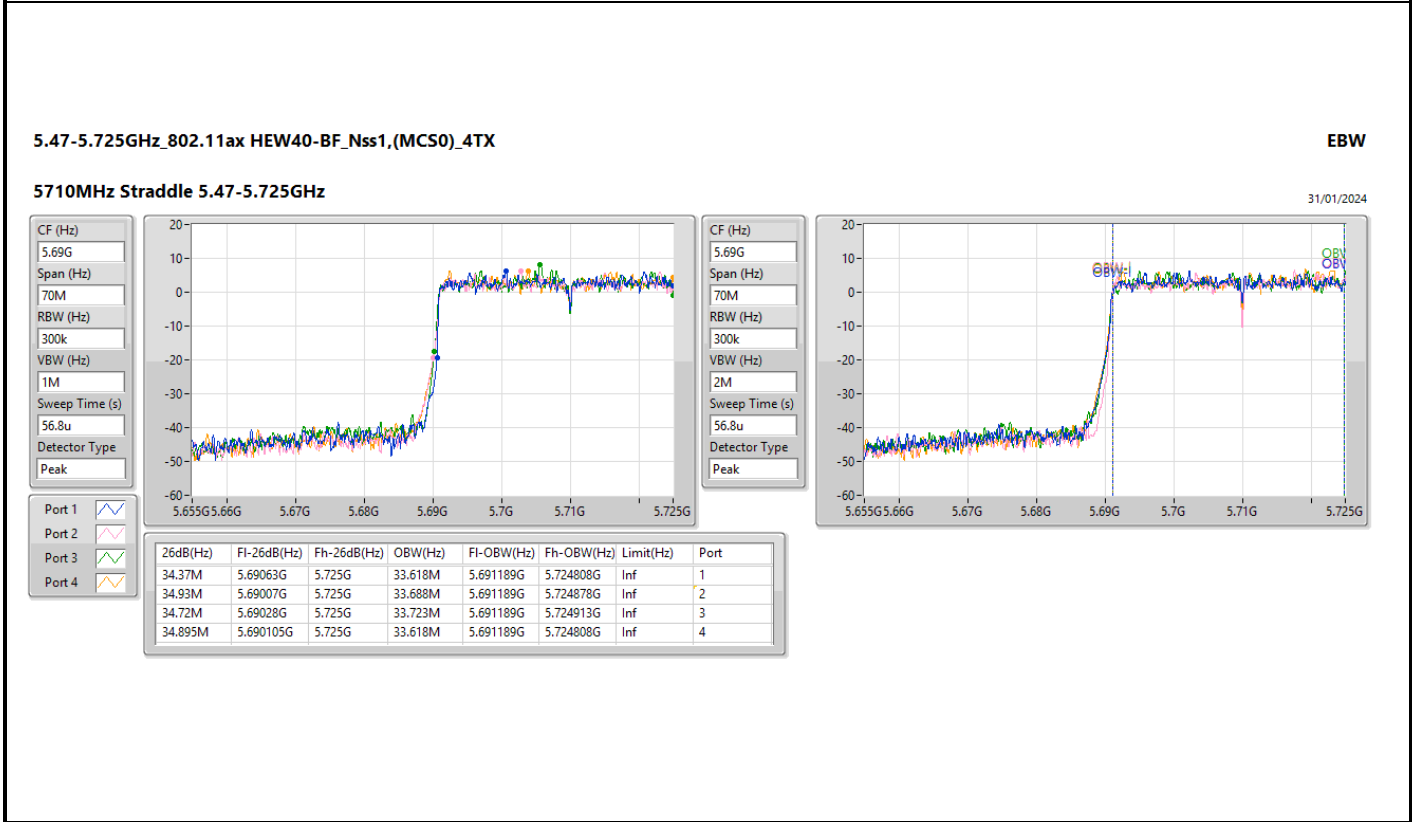
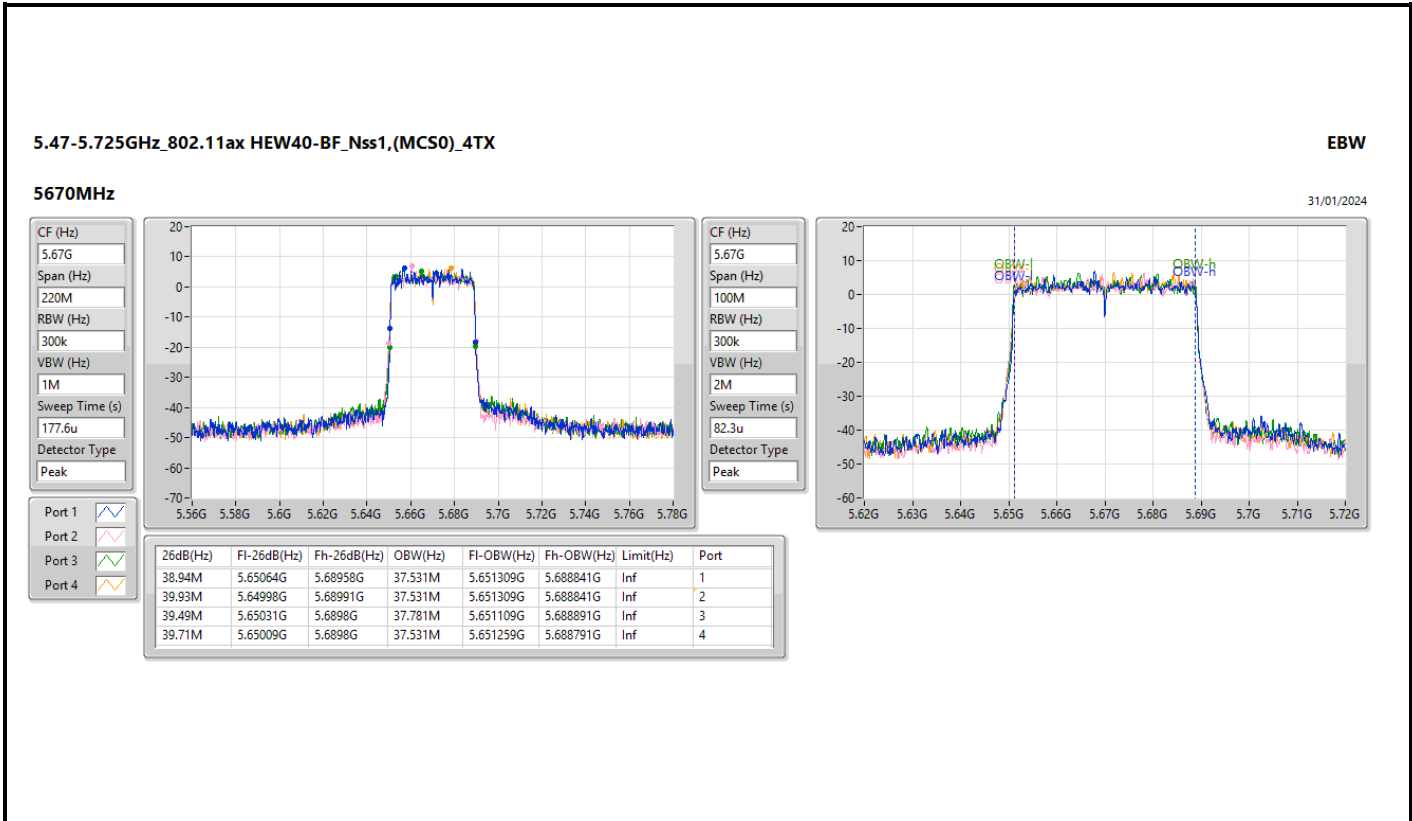
5.47-5.725GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5550MHz

31/01/2024



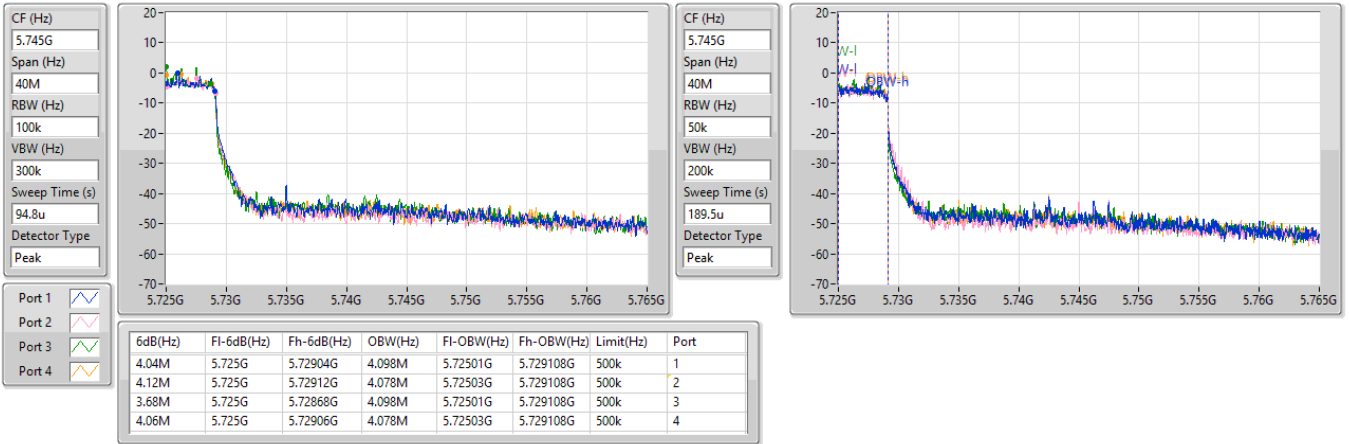


5.725-5.85GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

31/01/2024

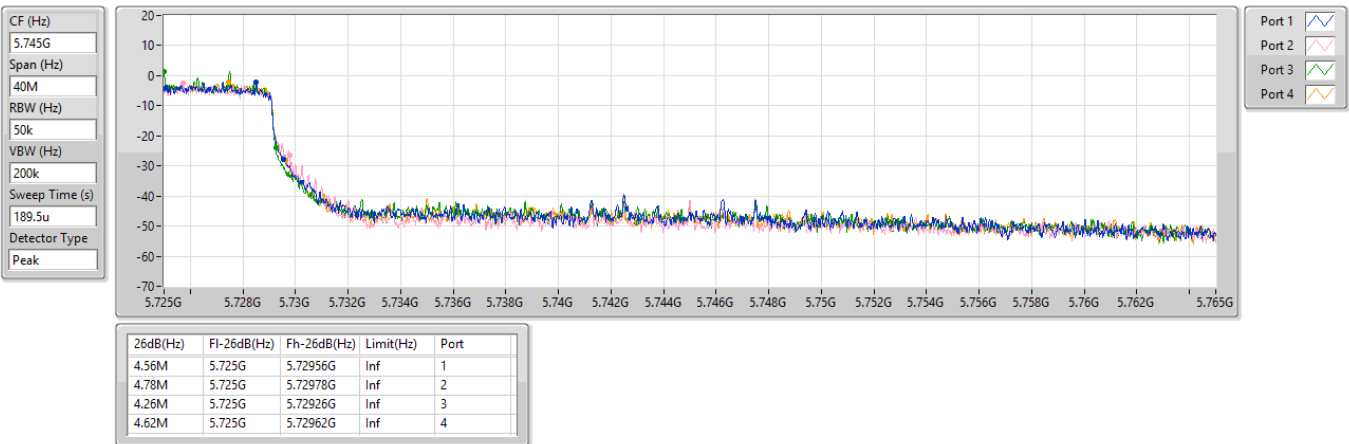


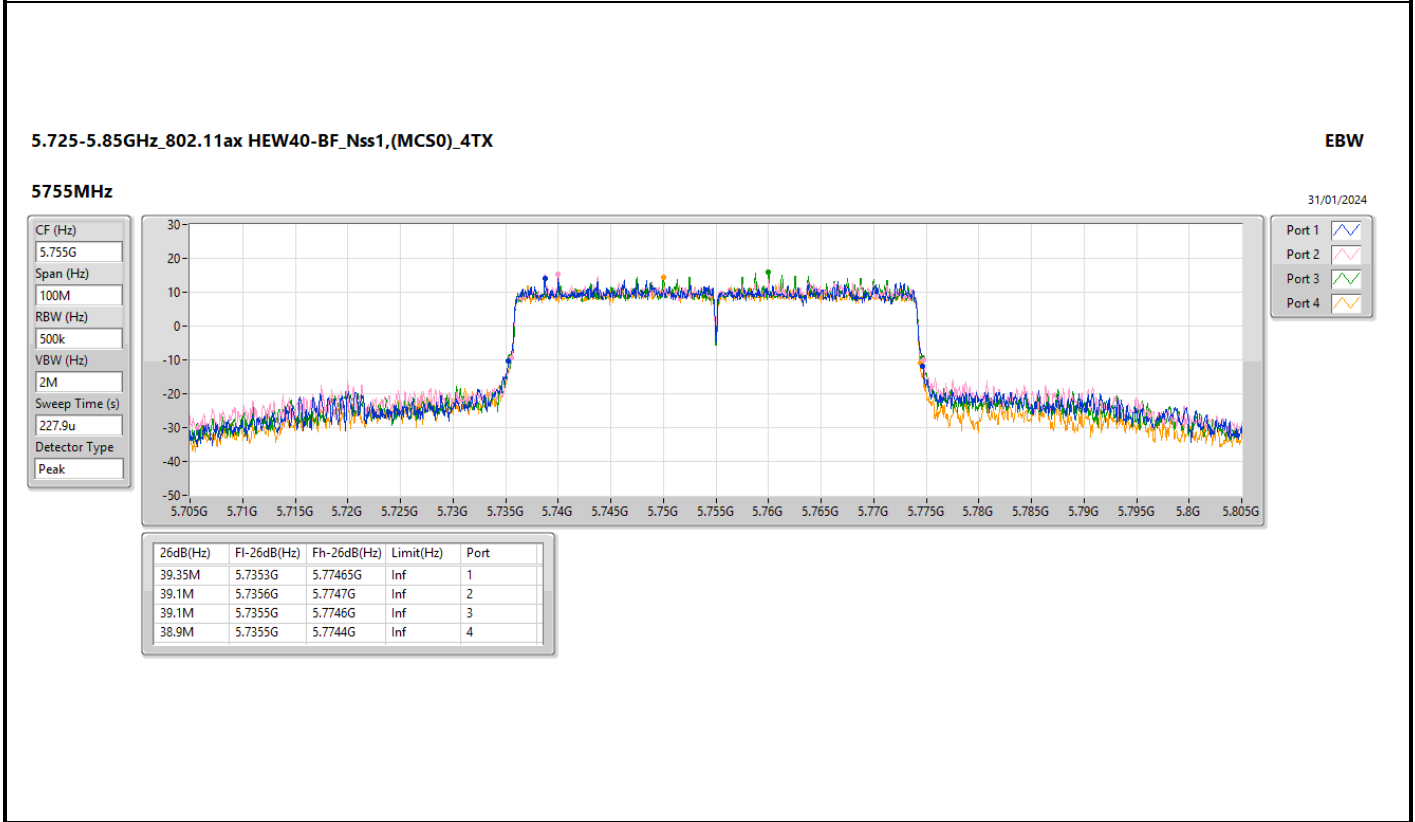
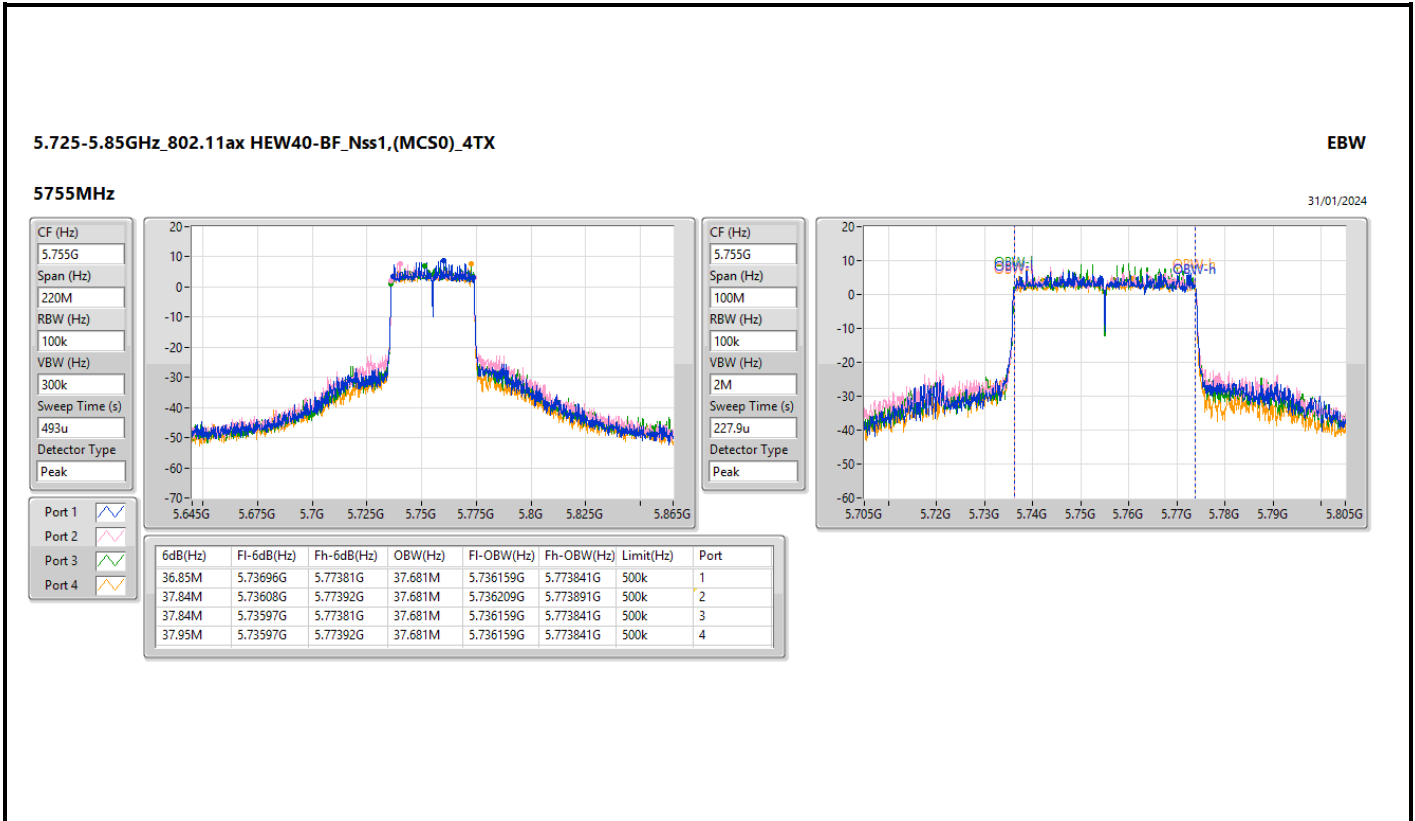
5.725-5.85GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

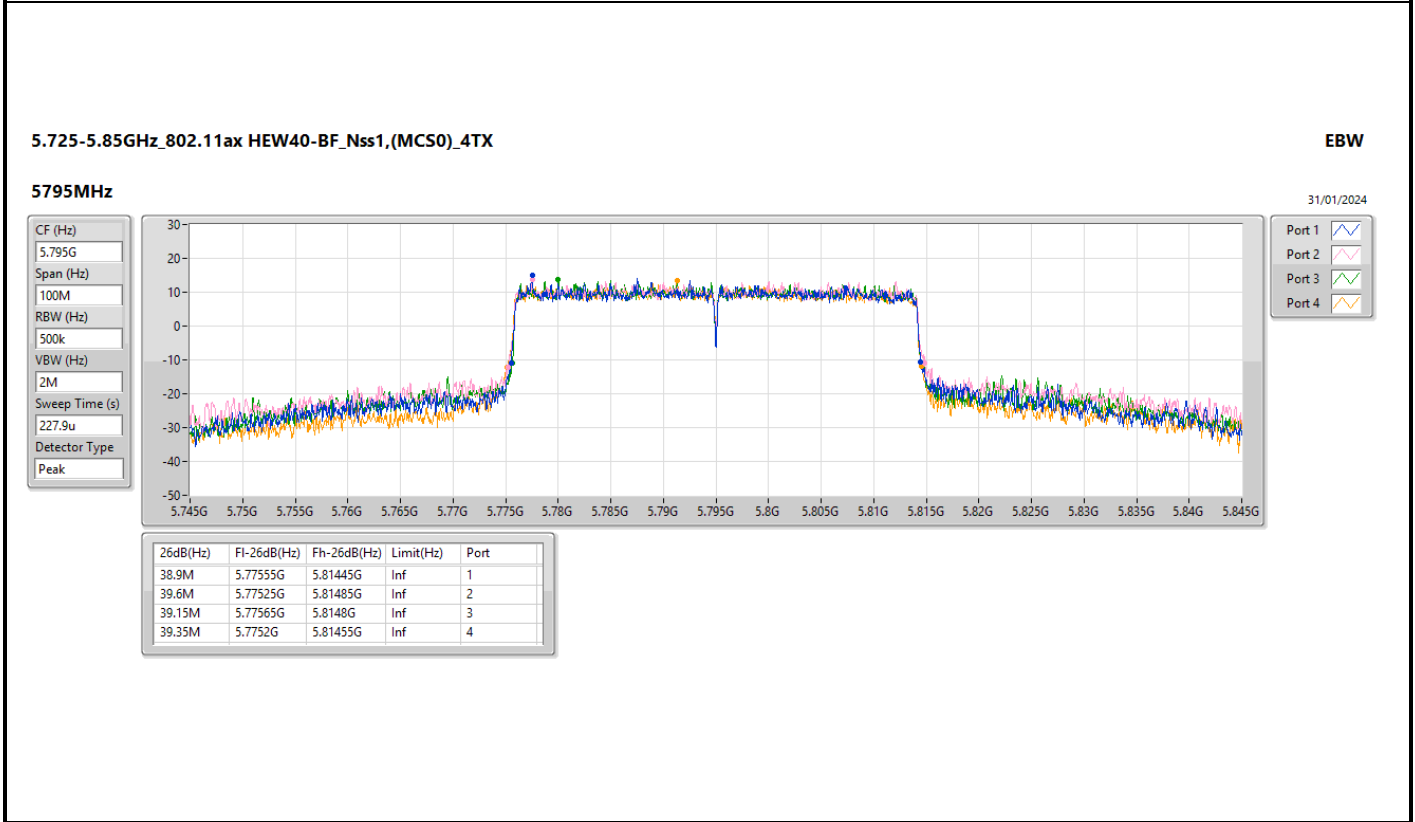
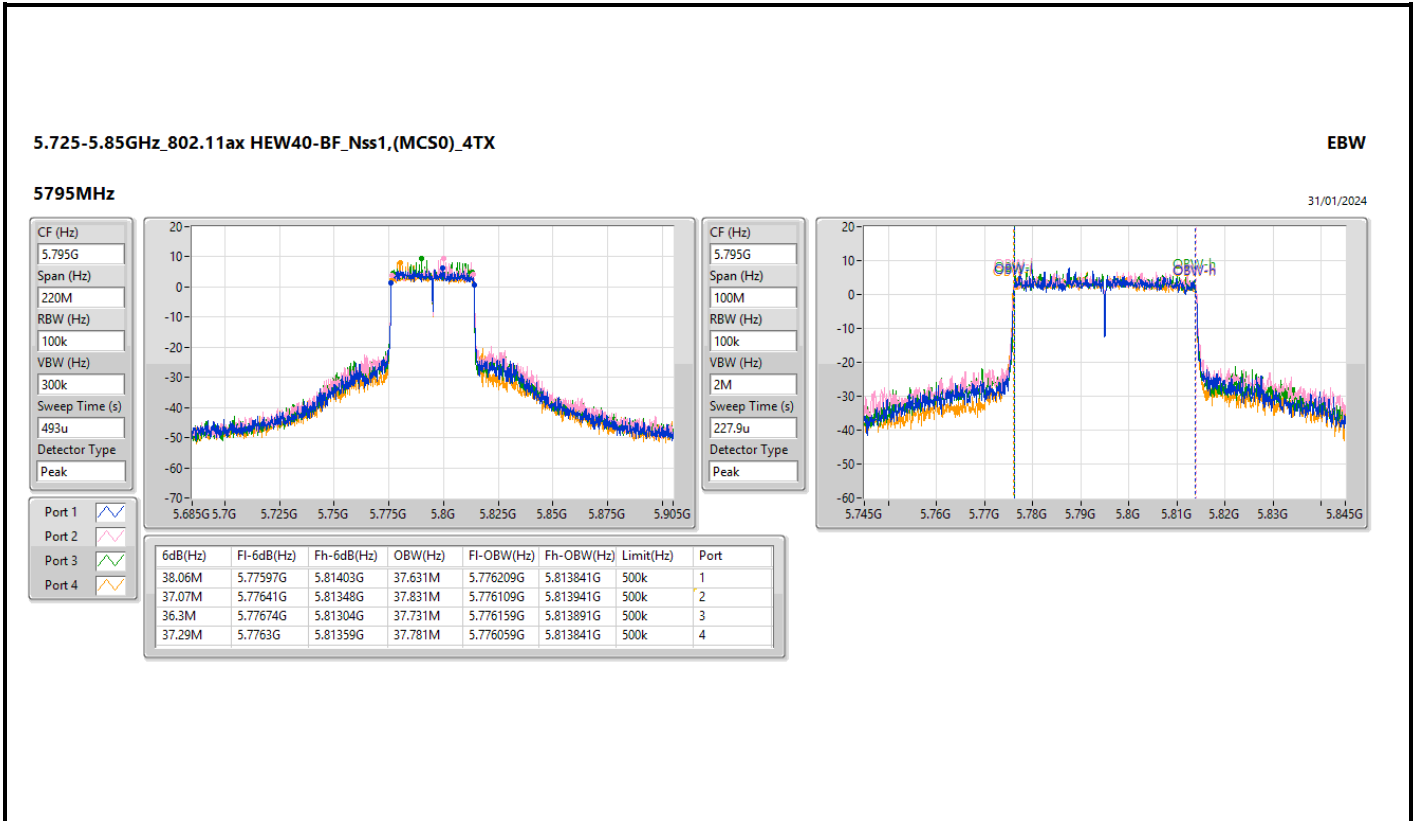
EBW

5710MHz Straddle 5.725-5.85GHz

31/01/2024







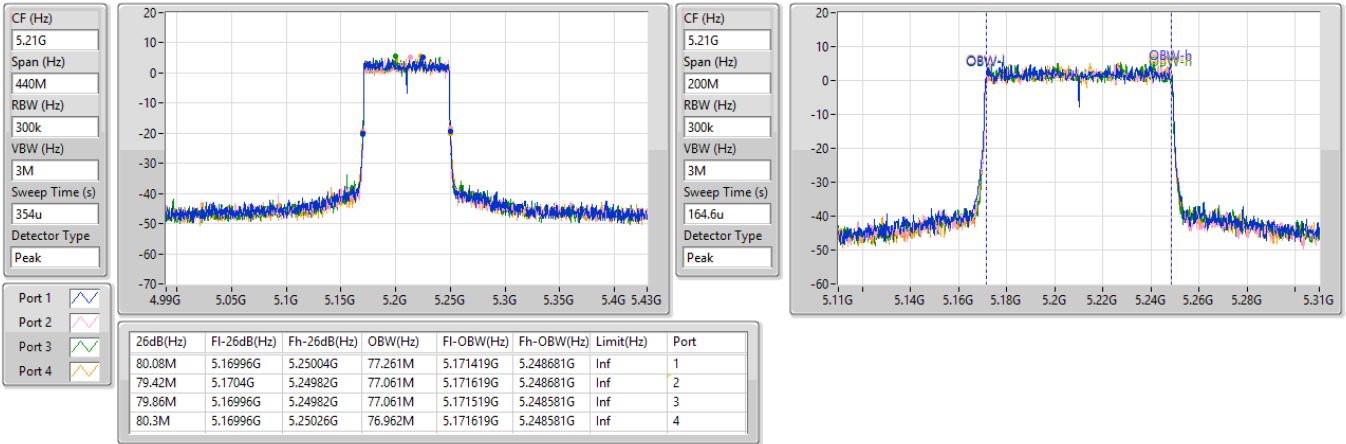


5.15-5.25GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

EBW

5210MHz

31/01/2024

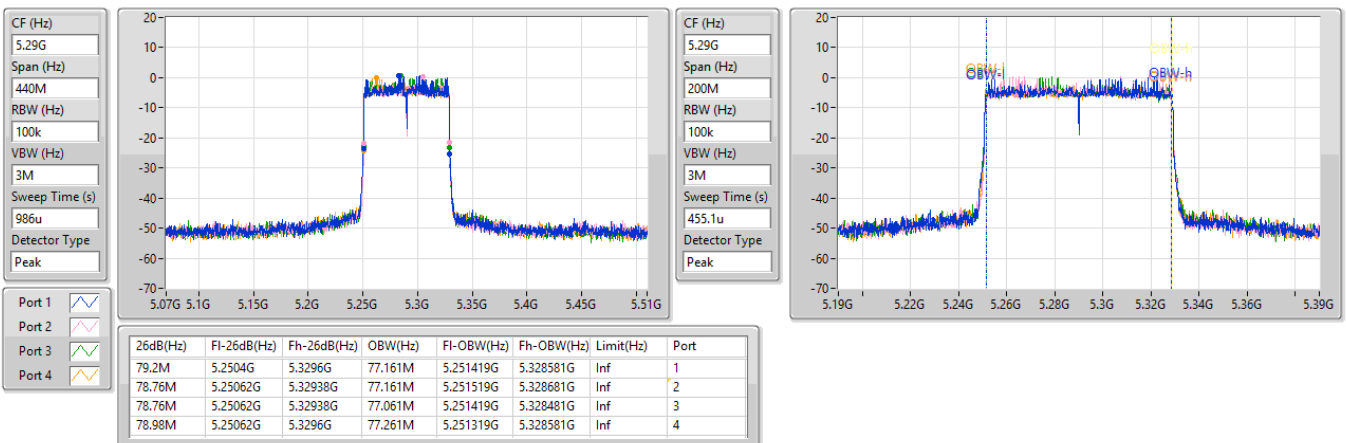


5.25-5.35GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

EBW

5290MHz

31/01/2024



5.47-5.725GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

EBW

5530MHz

31/01/2024

CF (Hz)  
5.53G

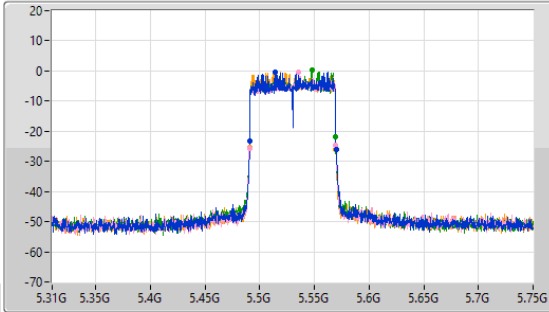
Span (Hz)  
440M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
986u

Detector Type  
Peak



CF (Hz)  
5.53G

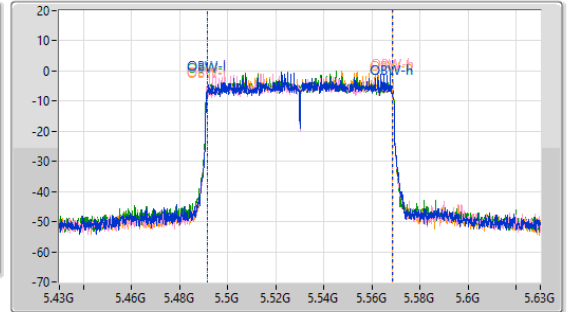
Span (Hz)  
200M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
455.1u

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
79.2M	5.49062G	5.56982G	77.161M	5.491519G	5.568681G	Inf	1
79.2M	5.4904G	5.5696G	77.361M	5.491419G	5.568781G	Inf	2
78.98M	5.4904G	5.56938G	77.161M	5.491419G	5.568581G	Inf	3
79.2M	5.4904G	5.5696G	77.061M	5.491619G	5.568681G	Inf	4

5.47-5.725GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

EBW

5610MHz

31/01/2024

CF (Hz)  
5.61G

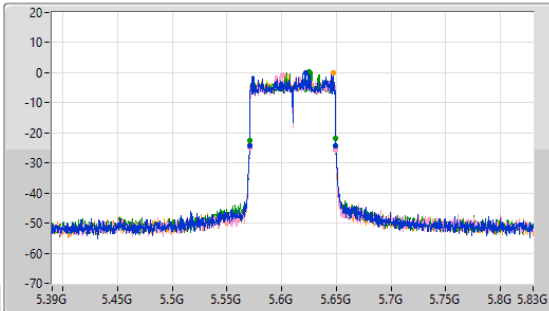
Span (Hz)  
440M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
986u

Detector Type  
Peak



CF (Hz)  
5.61G

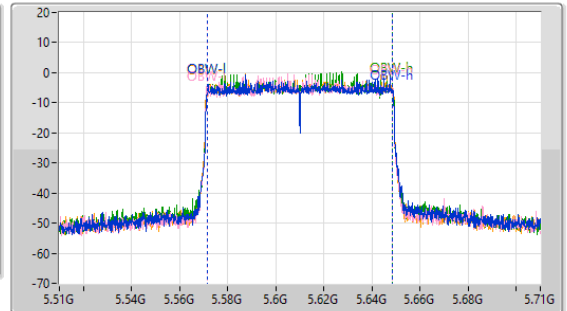
Span (Hz)  
200M

RBW (Hz)  
100k

VBW (Hz)  
3M

Sweep Time (s)  
455.1u

Detector Type  
Peak



Port 1

Port 2

Port 3

Port 4

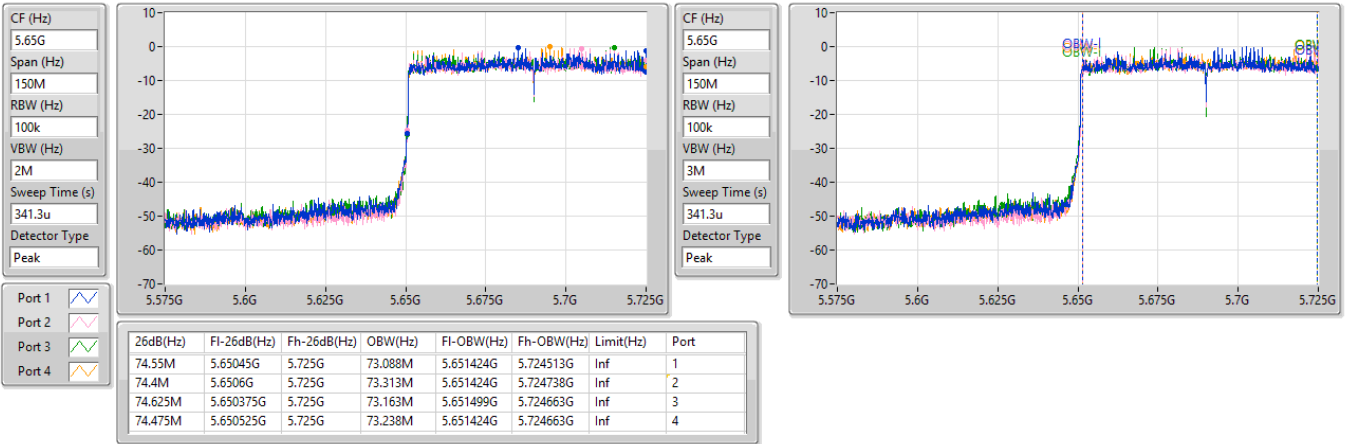
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
78.98M	5.57062G	5.6496G	77.061M	5.571519G	5.648581G	Inf	1
78.98M	5.57062G	5.6496G	77.161M	5.571419G	5.648581G	Inf	2
78.76M	5.57062G	5.64938G	77.261M	5.571419G	5.648681G	Inf	3
78.98M	5.57062G	5.6496G	77.261M	5.571419G	5.648681G	Inf	4

5.47-5.725GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

31/01/2024

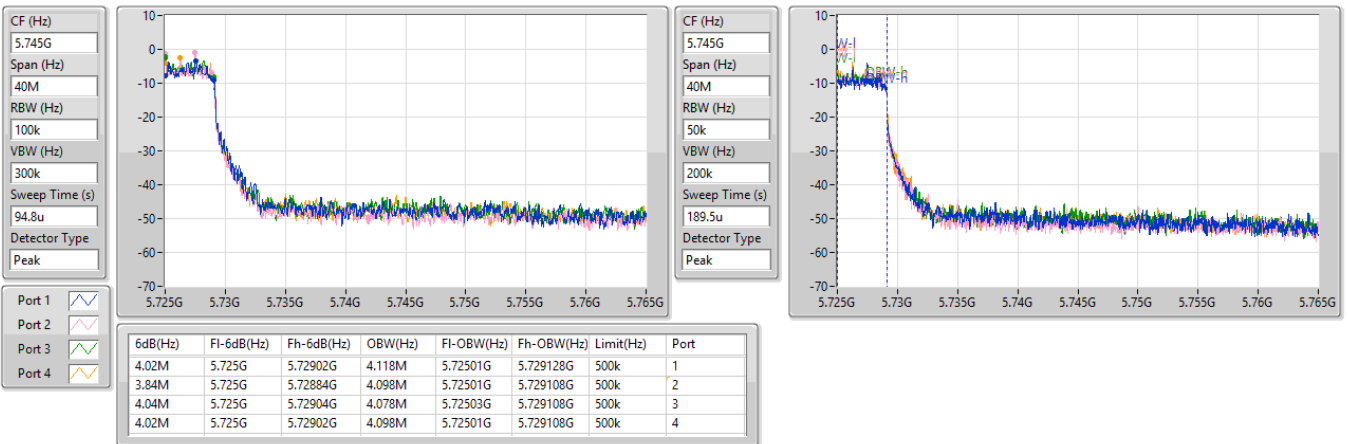


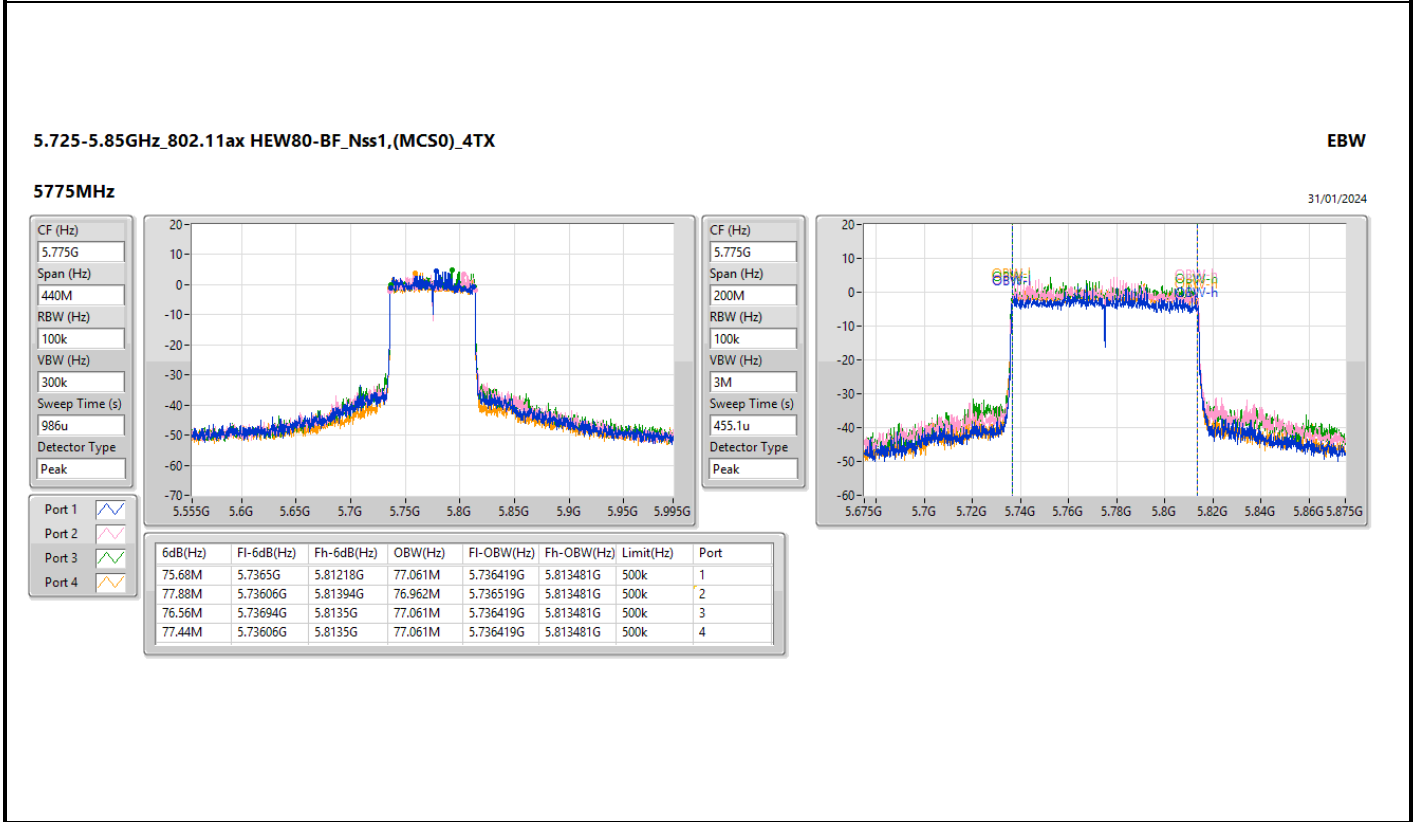
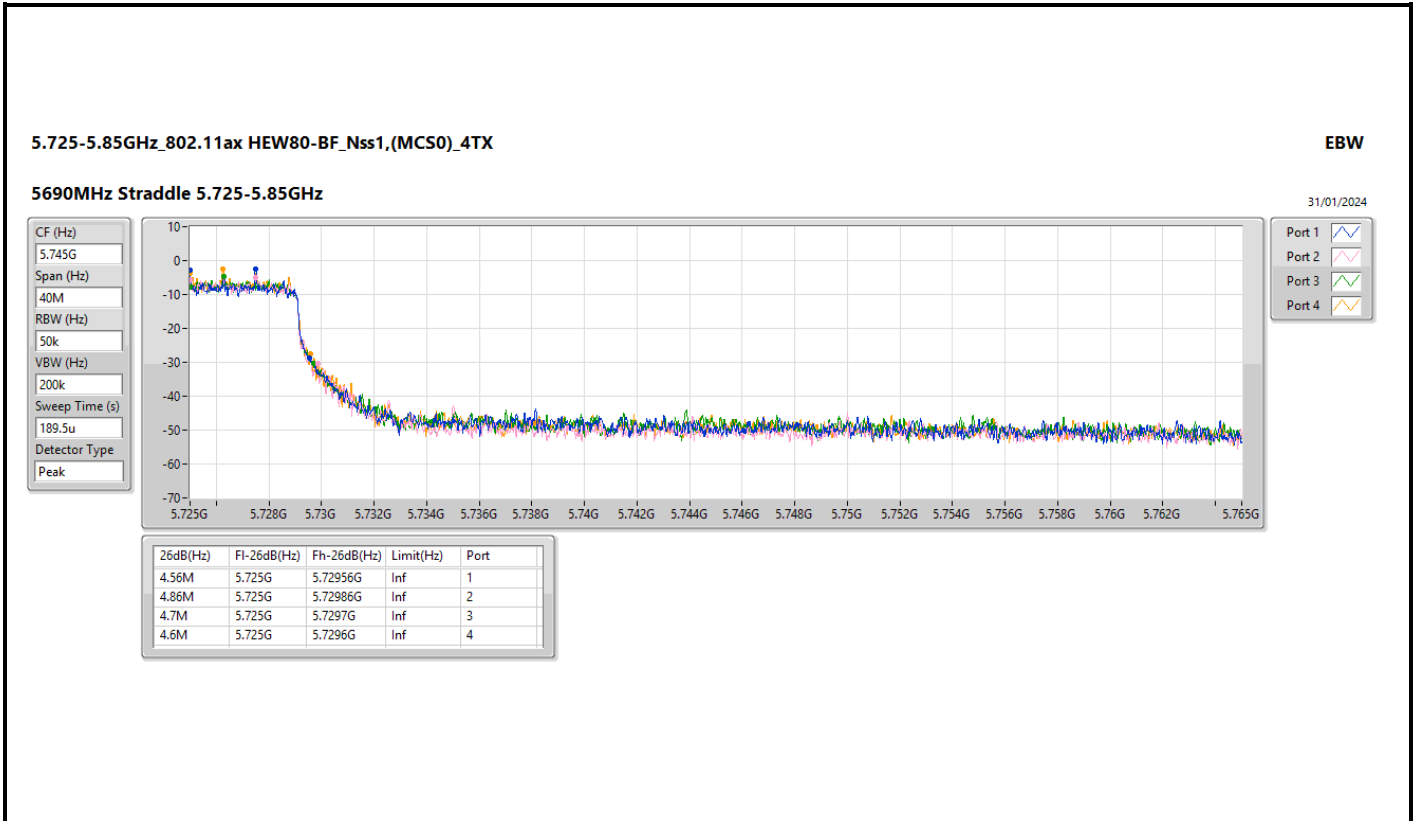
5.725-5.85GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

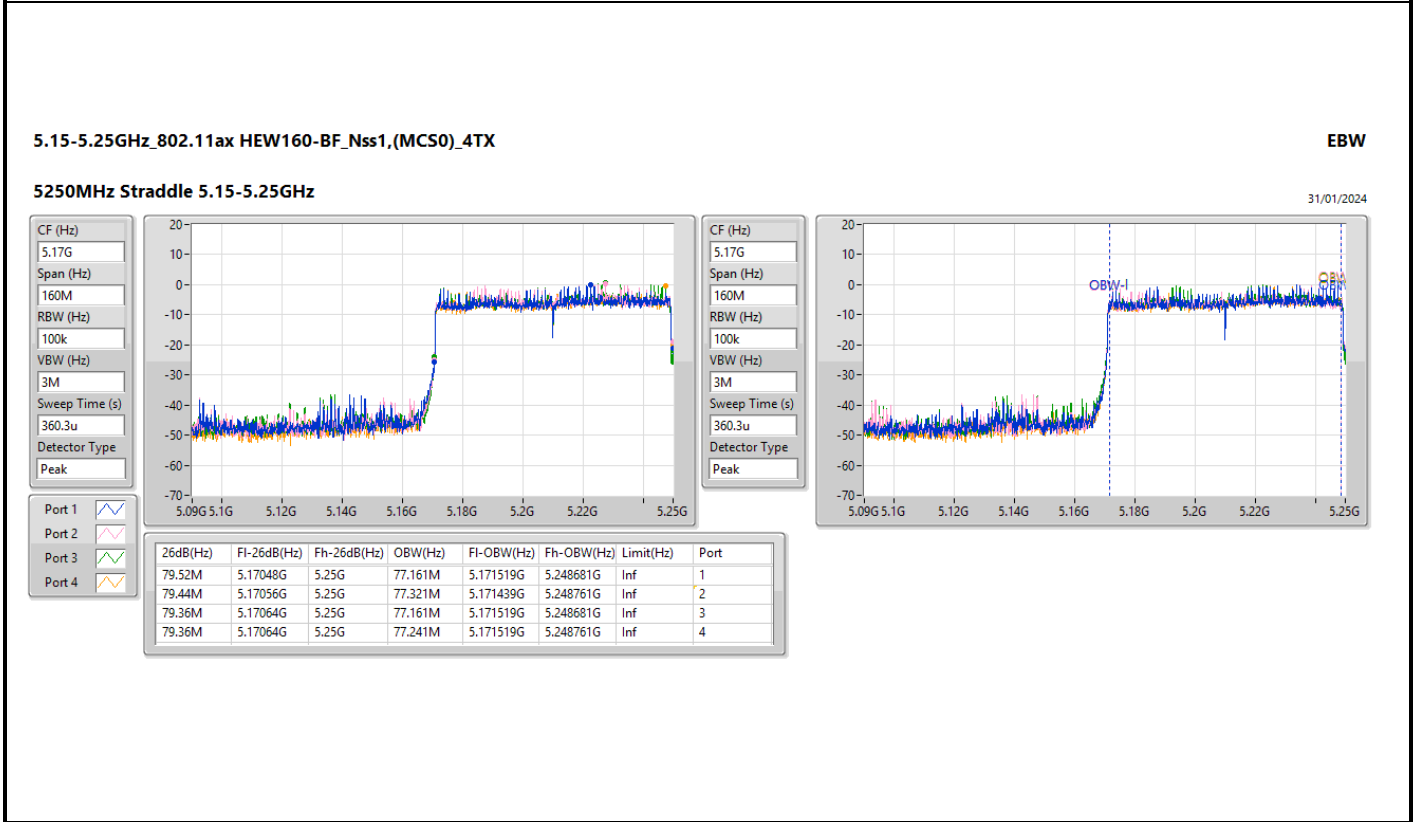
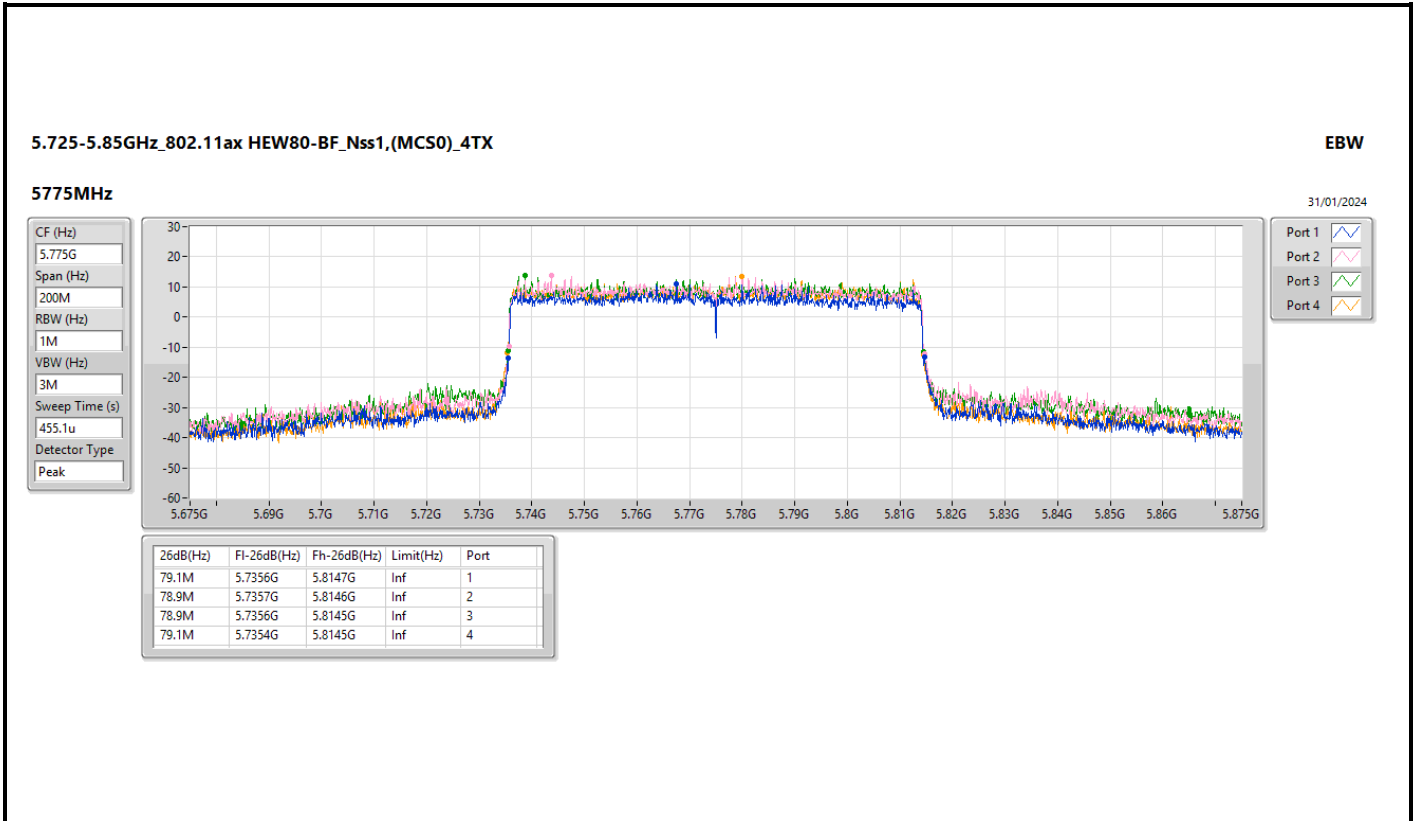
EBW

5690MHz Straddle 5.725-5.85GHz

31/01/2024





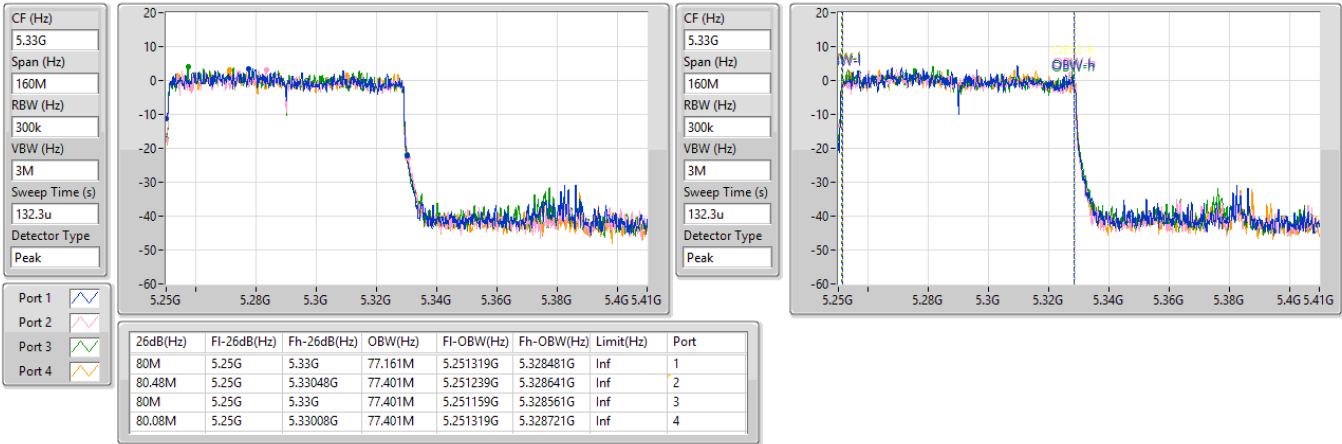


5.25-5.35GHz\_802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

31/01/2024

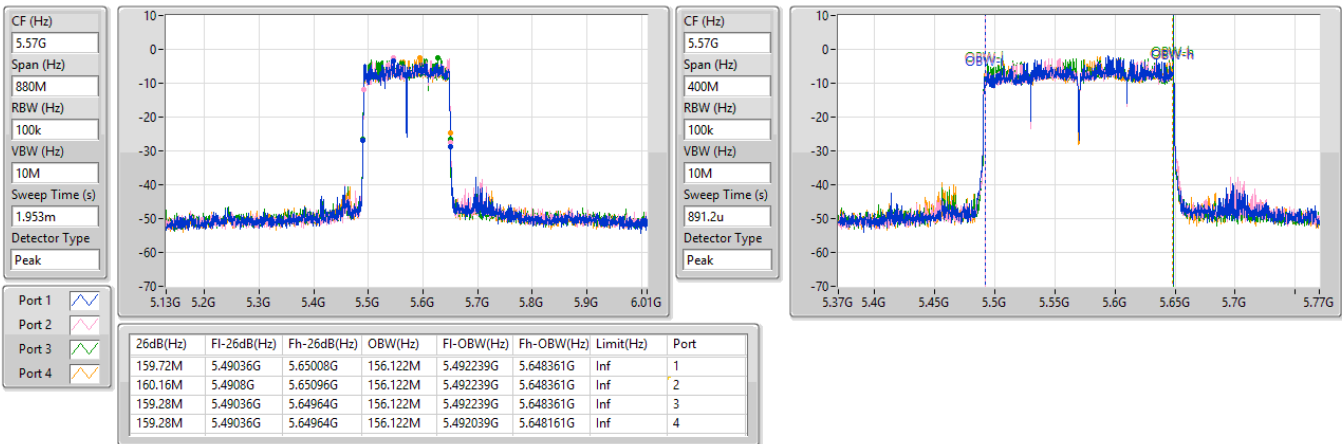


5.47-5.725GHz\_802.11ax HEW160-BF\_Nss1,(MCS0)\_4TX

EBW

5570MHz

31/01/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.86	0.96828
802.11ax HEW20_Nss1,(MCS0)_4TX	29.79	0.95280
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.97	0.99312
802.11ax HEW40_Nss1,(MCS0)_4TX	27.98	0.62806
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.61	0.91411
802.11ax HEW80_Nss1,(MCS0)_4TX	22.73	0.18750
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	25.69	0.37068
802.11ax HEW160_Nss1,(MCS0)_4TX	18.17	0.06561
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.76	0.23768
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.88	0.24434
802.11ax HEW20_Nss1,(MCS0)_4TX	23.96	0.24889
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.95	0.24831
802.11ax HEW40_Nss1,(MCS0)_4TX	23.89	0.24491
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.86	0.24322
802.11ax HEW80_Nss1,(MCS0)_4TX	22.51	0.17824
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.93	0.24717
802.11ax HEW160_Nss1,(MCS0)_4TX	18.29	0.06745
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.92	0.24660
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.92	0.24660
802.11ax HEW20_Nss1,(MCS0)_4TX	23.90	0.24547
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.83	0.24155
802.11ax HEW40_Nss1,(MCS0)_4TX	23.92	0.24660
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.81	0.24044
802.11ax HEW80_Nss1,(MCS0)_4TX	23.84	0.24210
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.87	0.24378
802.11ax HEW160_Nss1,(MCS0)_4TX	21.78	0.15066
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.77	0.23823
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.96	0.99083
802.11ax HEW20_Nss1,(MCS0)_4TX	29.85	0.96605
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.88	0.97275
802.11ax HEW40_Nss1,(MCS0)_4TX	29.97	0.99312
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.87	0.97051
802.11ax HEW80_Nss1,(MCS0)_4TX	27.81	0.60395
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	28.27	0.67143



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	4.57	19.27	19.25	19.35	19.22	25.29	30.00
5200MHz	Pass	4.57	23.81	23.82	24.10	23.63	29.86	30.00
5240MHz	Pass	4.57	23.70	23.83	24.03	23.49	29.79	30.00
5260MHz	Pass	4.23	17.54	17.68	17.33	17.43	23.52	23.98
5300MHz	Pass	4.23	18.08	18.01	17.54	17.79	23.88	23.98
5320MHz	Pass	4.23	17.89	18.06	17.55	17.72	23.83	23.98
5500MHz	Pass	5.18	17.96	17.70	18.07	17.86	23.92	23.98
5580MHz	Pass	5.18	17.78	17.55	17.80	17.57	23.70	23.98
5700MHz	Pass	5.18	17.03	17.55	17.67	17.76	23.53	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	5.18	16.17	16.54	16.78	16.84	22.61	22.83
5720MHz Straddle 5.725-5.85GHz	Pass	5.06	9.94	10.41	10.79	10.79	16.52	30.00
5745MHz	Pass	5.06	24.17	24.10	23.88	23.57	29.96	30.00
5785MHz	Pass	5.06	23.97	23.91	23.77	23.49	29.81	30.00
5825MHz	Pass	5.06	23.73	24.18	24.11	23.49	29.91	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.57	20.07	20.24	20.14	20.02	26.14	30.00
5200MHz	Pass	4.57	23.47	23.73	23.50	23.38	29.54	30.00
5240MHz	Pass	4.57	23.65	23.82	24.02	23.59	29.79	30.00
5260MHz	Pass	4.23	18.11	18.00	17.74	17.91	23.96	23.98
5300MHz	Pass	4.23	17.79	17.95	17.77	17.74	23.83	23.98
5320MHz	Pass	4.23	17.92	17.73	17.57	17.68	23.75	23.98
5500MHz	Pass	5.18	17.74	17.72	18.16	17.70	23.85	23.98
5580MHz	Pass	5.18	17.72	17.69	17.98	17.68	23.79	23.98
5700MHz	Pass	5.18	17.53	17.90	17.97	18.11	23.90	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	5.18	16.34	16.82	16.80	16.93	22.75	22.77
5720MHz Straddle 5.725-5.85GHz	Pass	5.06	11.15	11.68	11.88	11.93	17.69	30.00
5745MHz	Pass	5.06	23.97	24.13	23.72	23.49	29.85	30.00
5785MHz	Pass	5.06	23.90	24.01	23.79	23.35	29.79	30.00
5825MHz	Pass	5.06	23.65	24.09	23.92	23.53	29.82	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.57	16.28	16.01	16.22	16.17	22.19	30.00
5230MHz	Pass	4.57	22.12	21.92	22.03	21.77	27.98	30.00
5270MHz	Pass	4.23	18.13	18.12	17.75	17.42	23.89	23.98
5310MHz	Pass	4.23	16.65	16.37	16.38	16.06	22.39	23.98
5510MHz	Pass	5.18	17.94	17.66	17.98	18.00	23.92	23.98
5550MHz	Pass	5.18	17.76	17.67	17.84	17.93	23.82	23.98
5670MHz	Pass	5.18	17.82	17.38	17.95	18.04	23.83	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	5.18	17.71	17.60	17.83	17.87	23.77	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	5.06	8.06	7.86	8.18	8.24	14.11	30.00
5755MHz	Pass	5.06	23.98	24.14	24.06	23.61	29.97	30.00
5795MHz	Pass	5.06	23.91	24.17	24.04	23.43	29.92	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.57	16.81	16.76	16.69	16.56	22.73	30.00
5290MHz	Pass	4.23	16.52	16.62	16.40	16.43	22.51	23.98
5530MHz	Pass	5.18	17.55	17.68	17.96	17.92	23.80	23.98
5610MHz	Pass	5.18	17.68	17.60	17.97	18.02	23.84	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	5.18	17.69	17.43	17.99	17.82	23.76	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	5.06	4.39	4.32	5.01	4.78	10.65	30.00
5775MHz	Pass	5.06	21.85	21.81	22.13	21.33	27.81	30.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.57	11.97	12.14	12.56	11.91	18.17	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.23	12.09	12.17	12.58	12.24	18.29	23.98
5570MHz	Pass	5.18	15.84	15.60	15.84	15.76	21.78	23.98
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-



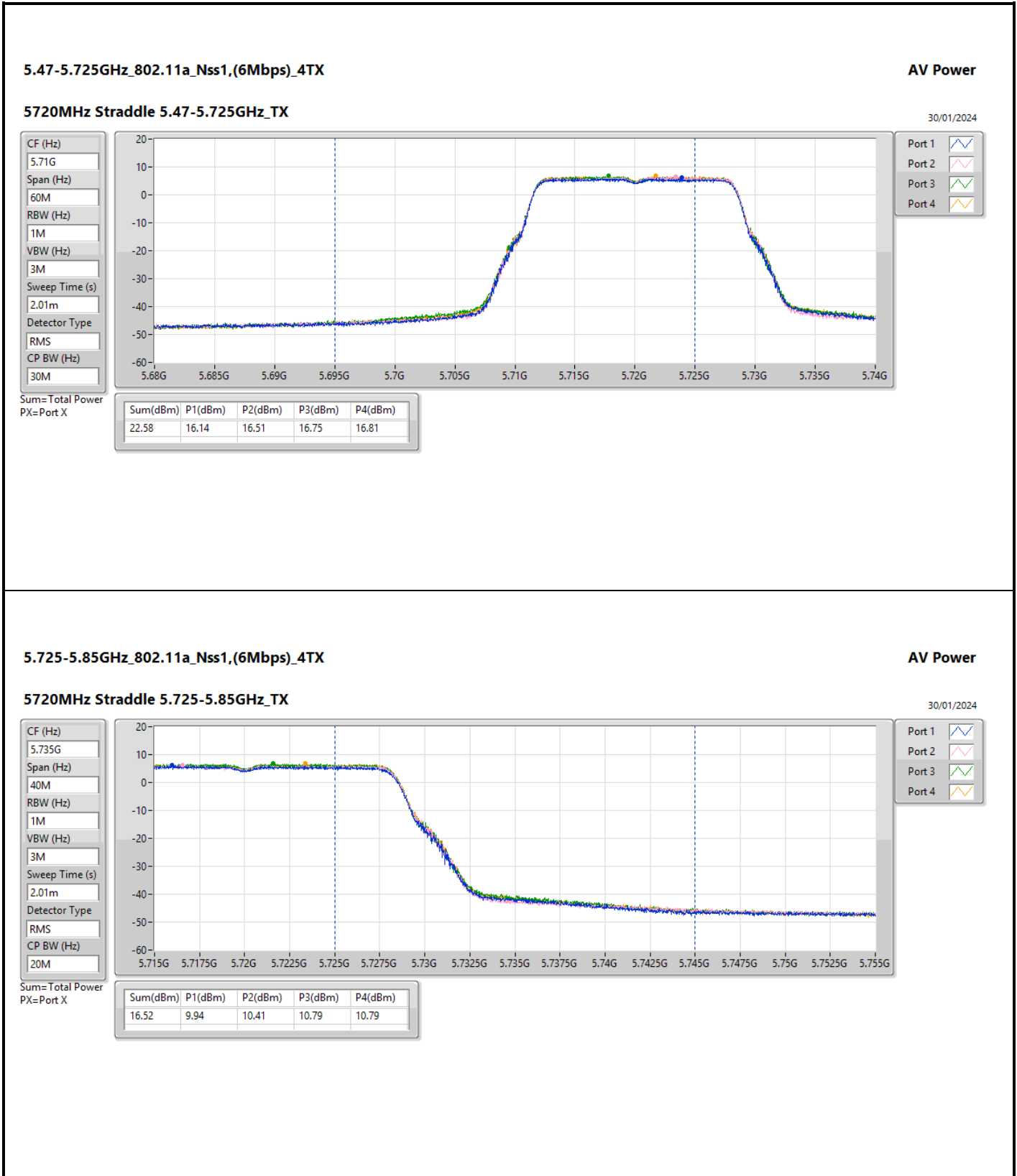


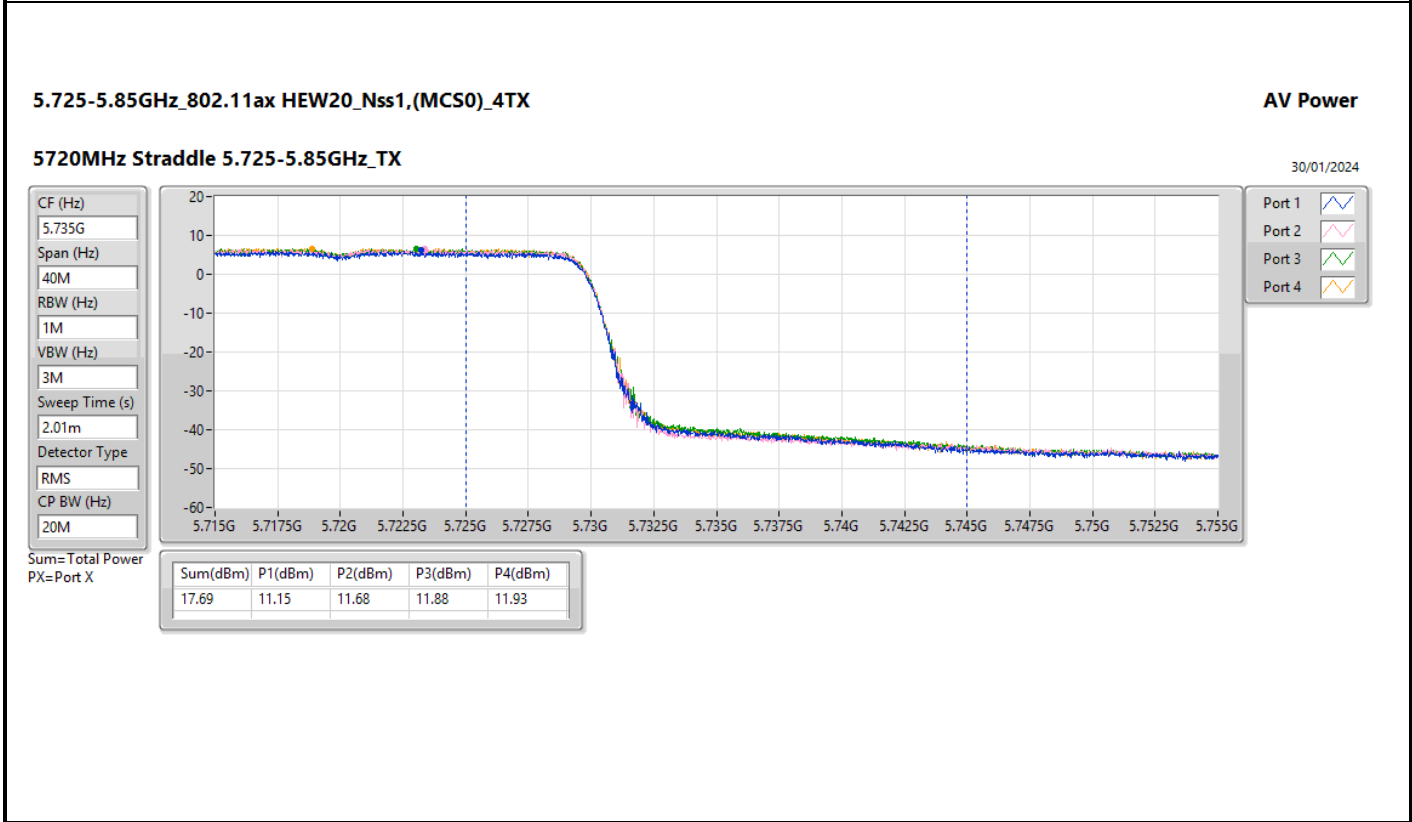
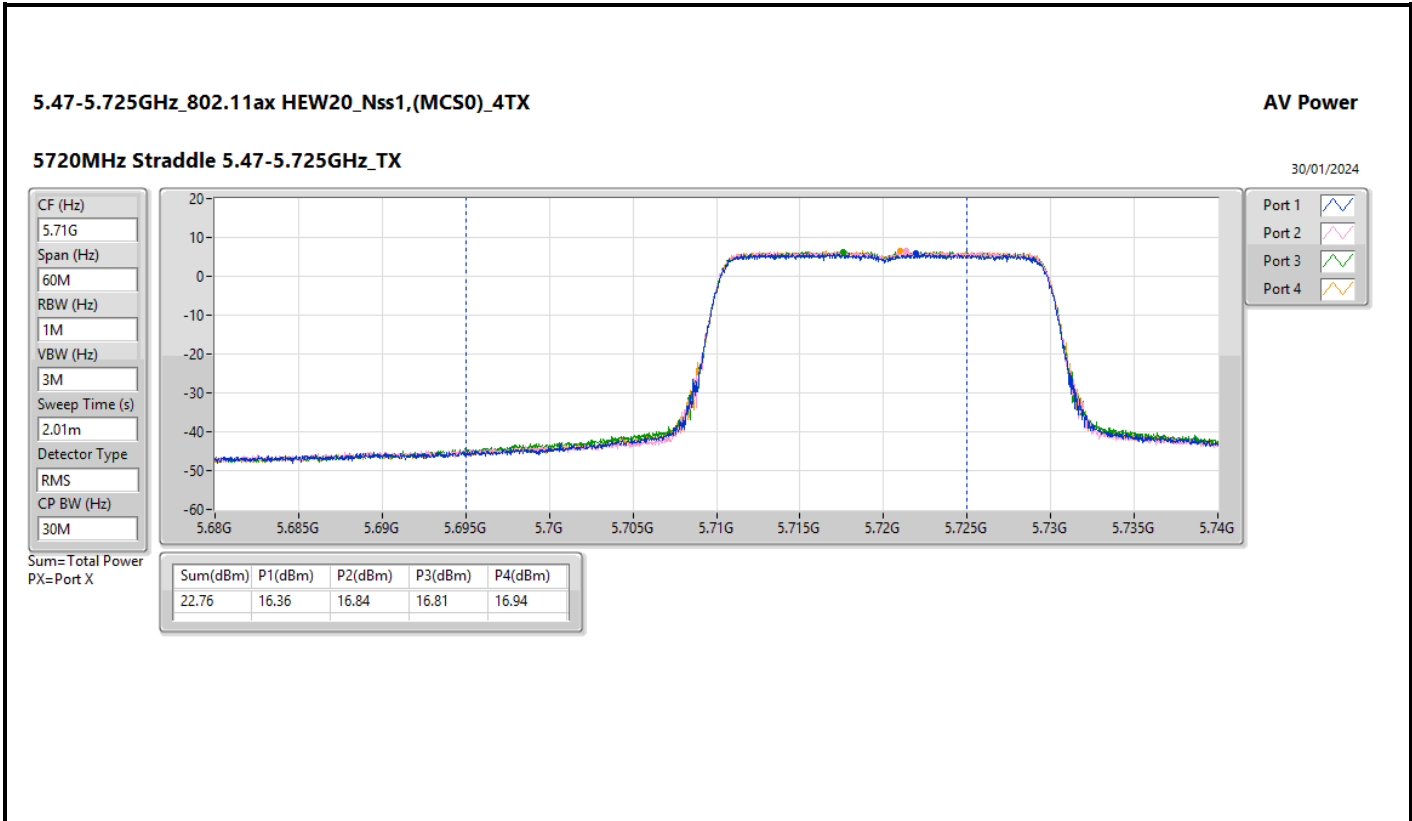
## Average Power

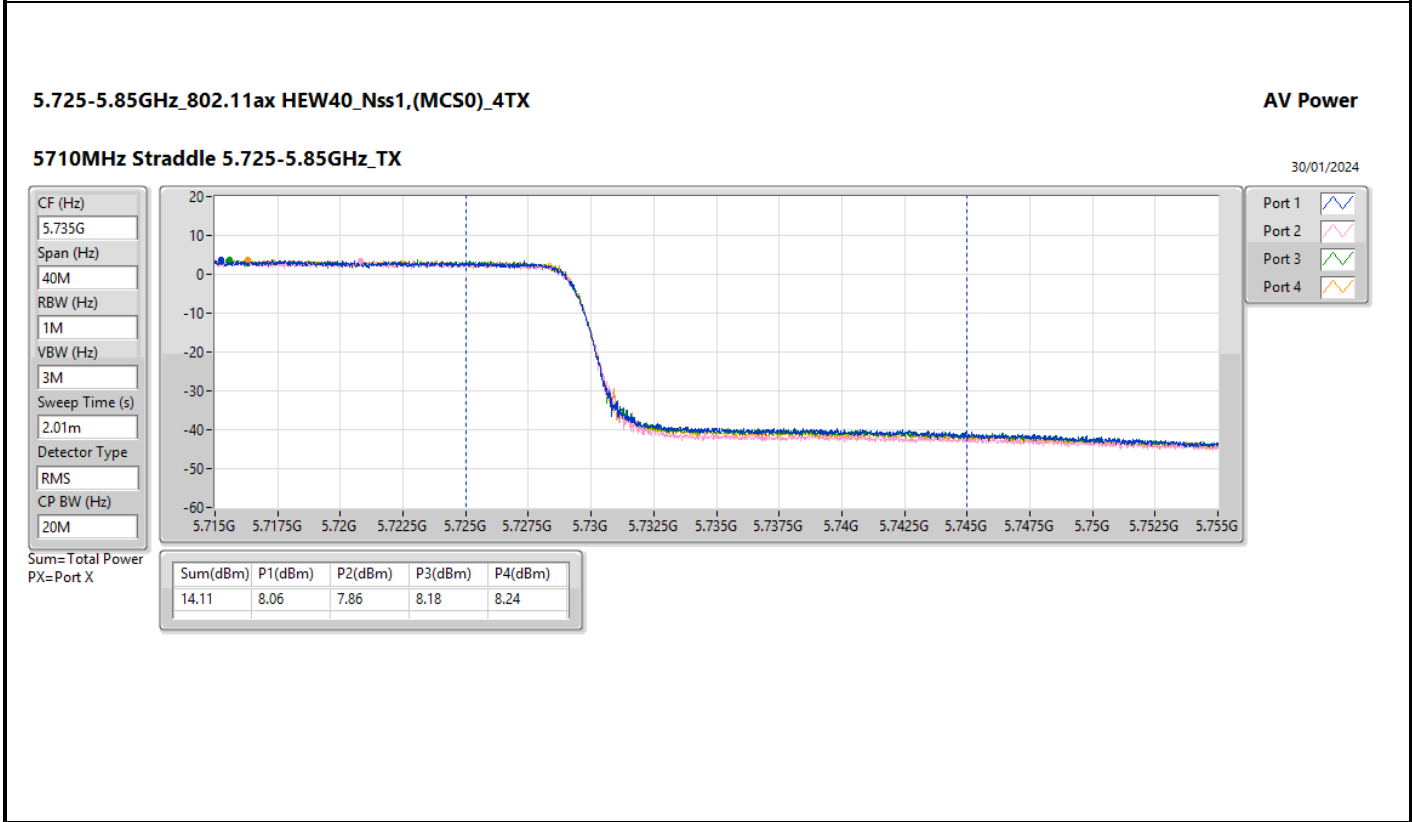
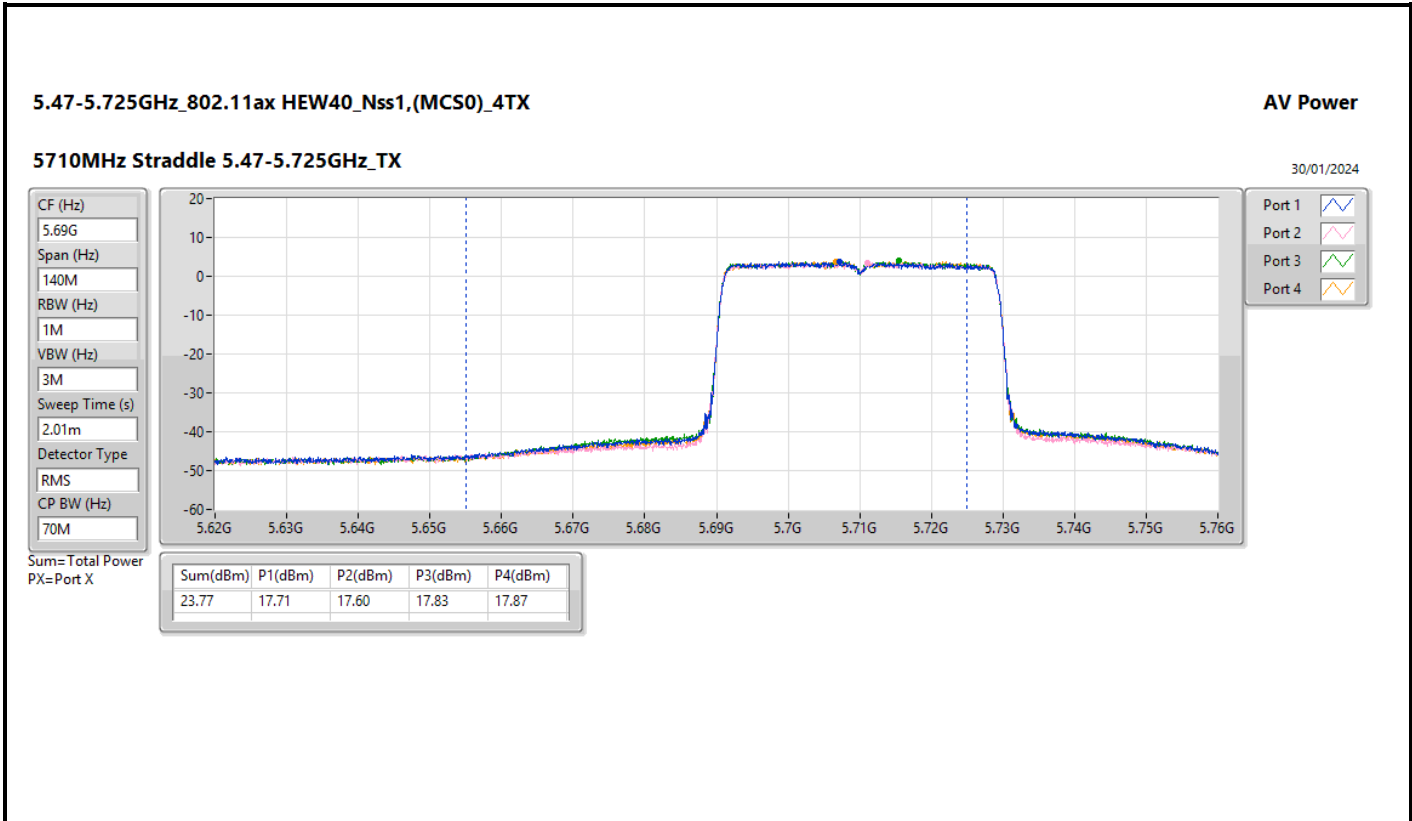
## Appendix C

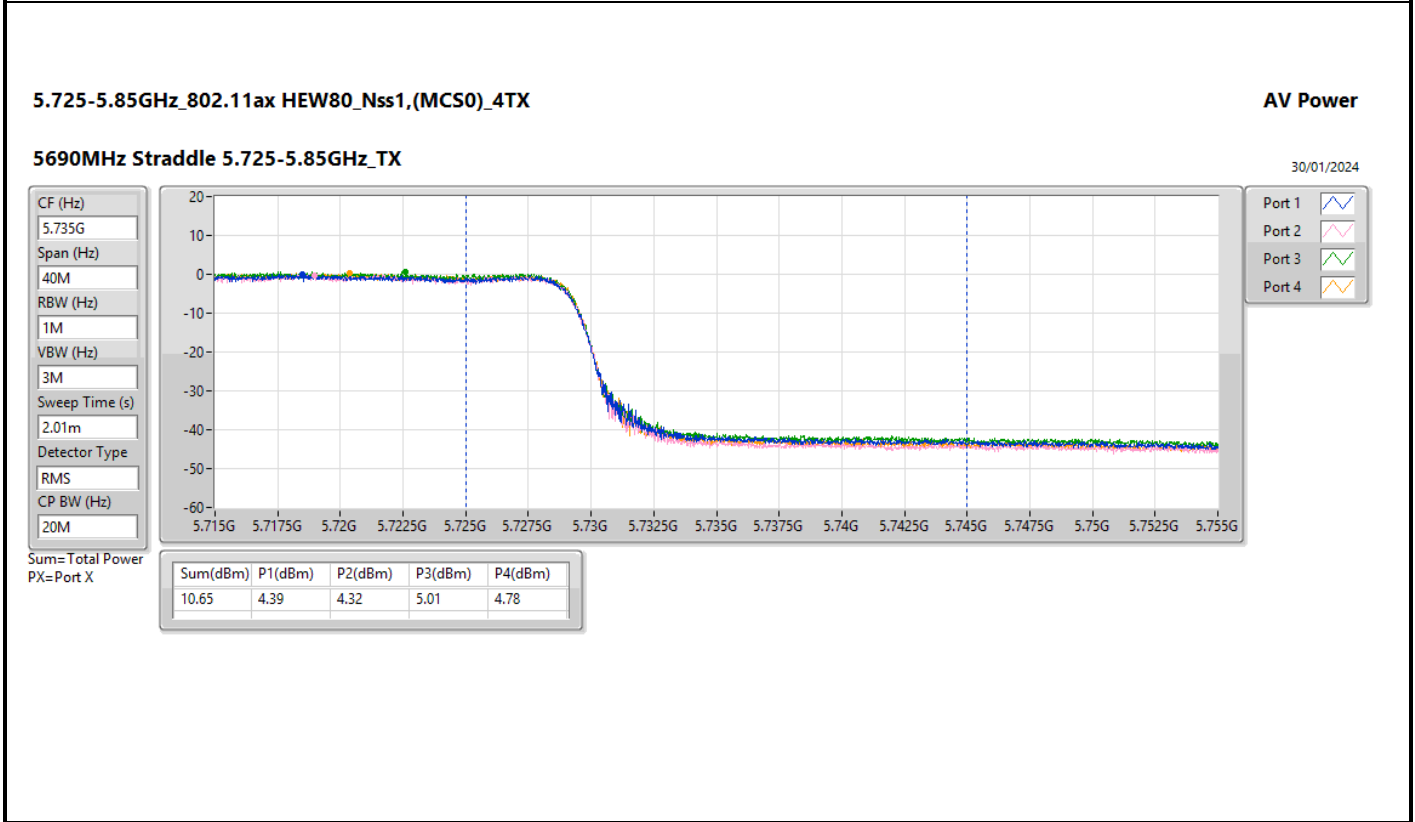
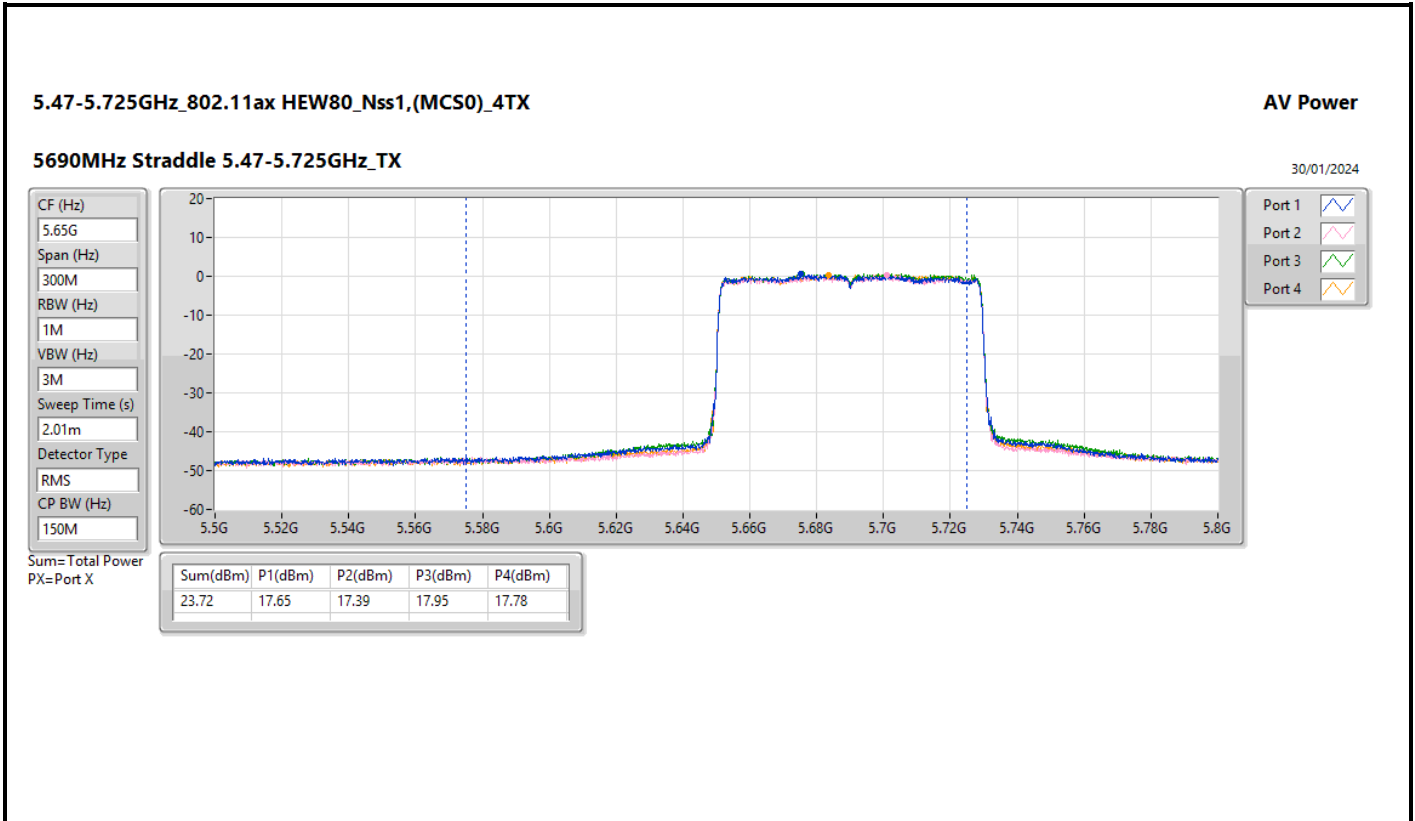
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5180MHz	Pass	5.29	19.99	20.13	19.96	20.09	26.06	30.00
5200MHz	Pass	5.29	23.36	23.65	23.64	23.35	29.52	30.00
5240MHz	Pass	5.29	23.95	23.92	24.20	23.72	29.97	30.00
5260MHz	Pass	4.86	17.95	17.84	17.68	17.61	23.79	23.98
5300MHz	Pass	4.86	17.98	18.01	17.88	17.82	23.94	23.98
5320MHz	Pass	4.86	18.05	18.01	17.78	17.87	23.95	23.98
5500MHz	Pass	6.08	17.80	17.75	17.97	17.72	23.83	23.90
5580MHz	Pass	6.08	17.70	17.59	17.88	17.49	23.69	23.90
5700MHz	Pass	6.08	14.64	15.14	15.38	15.27	21.14	23.90
5720MHz Straddle 5.47-5.725GHz	Pass	6.08	16.29	16.60	16.95	16.93	22.72	22.75
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	11.17	11.48	11.81	11.71	17.57	30.00
5745MHz	Pass	5.90	23.87	24.02	23.70	23.48	29.79	30.00
5785MHz	Pass	5.90	24.01	24.03	23.73	23.51	29.85	30.00
5825MHz	Pass	5.90	23.85	24.09	24.01	23.44	29.88	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.29	18.18	18.09	18.24	18.00	24.15	30.00
5230MHz	Pass	5.29	23.64	23.61	23.81	23.27	29.61	30.00
5270MHz	Pass	4.86	18.08	18.12	17.72	17.39	23.86	23.98
5310MHz	Pass	4.86	17.42	17.55	17.47	17.09	23.41	23.98
5510MHz	Pass	6.08	17.78	17.42	17.78	17.88	23.74	23.90
5550MHz	Pass	6.08	17.74	17.59	17.70	17.83	23.74	23.90
5670MHz	Pass	6.08	17.69	17.38	17.83	18.01	23.75	23.90
5710MHz Straddle 5.47-5.725GHz	Pass	6.08	17.85	17.51	17.84	17.95	23.81	23.90
5710MHz Straddle 5.725-5.85GHz	Pass	5.90	7.97	7.88	8.26	8.39	14.15	30.00
5755MHz	Pass	5.90	23.77	24.07	23.95	23.40	29.83	30.00
5795MHz	Pass	5.90	23.74	24.08	24.12	23.43	29.87	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.29	19.86	19.65	19.70	19.45	25.69	30.00
5290MHz	Pass	4.86	17.97	17.98	17.90	17.77	23.93	23.98
5530MHz	Pass	6.08	17.62	17.69	17.94	17.92	23.82	23.90
5610MHz	Pass	6.08	17.70	17.64	17.97	17.99	23.85	23.90
5690MHz Straddle 5.47-5.725GHz	Pass	6.08	17.78	17.60	17.93	18.07	23.87	23.90
5690MHz Straddle 5.725-5.85GHz	Pass	5.90	4.49	4.52	5.08	5.14	10.84	30.00
5775MHz	Pass	5.90	22.33	22.21	22.62	21.79	28.27	30.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.29	17.59	17.72	18.08	17.54	23.76	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.86	17.66	17.88	18.20	17.85	23.92	23.98
5570MHz	Pass	6.08	17.76	17.72	17.79	17.73	23.77	23.90

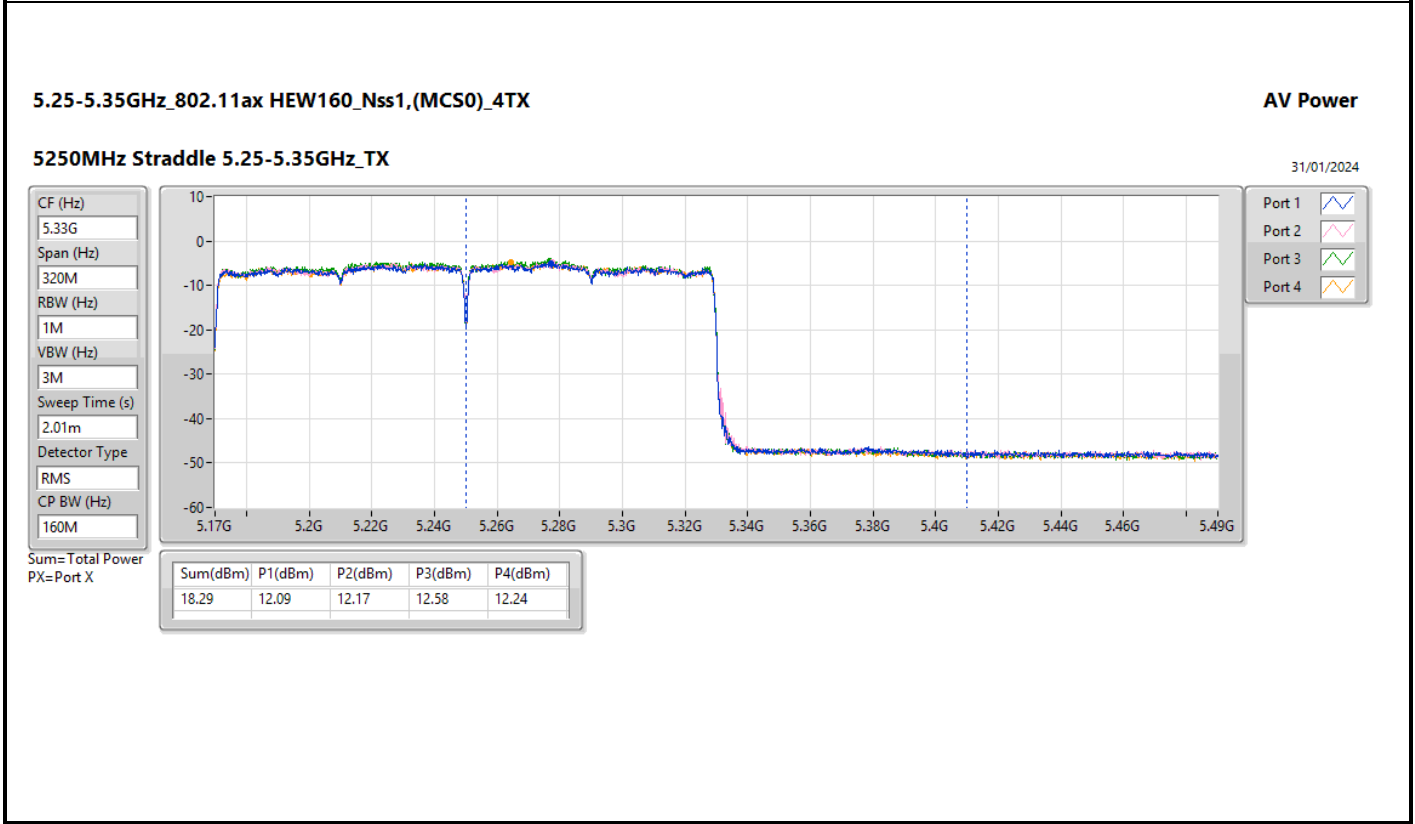
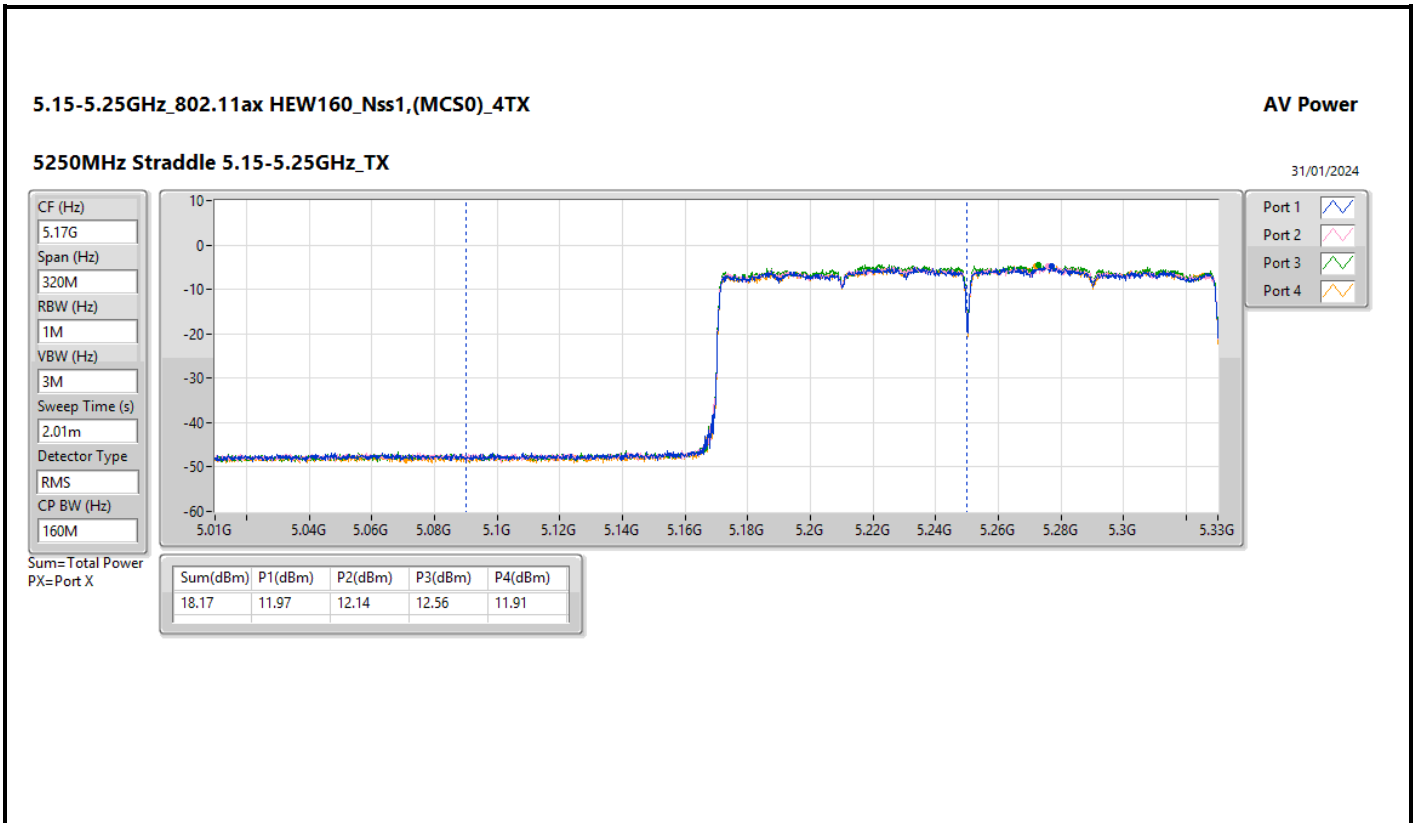
DG = Directional Gain; Port X = Port X output power

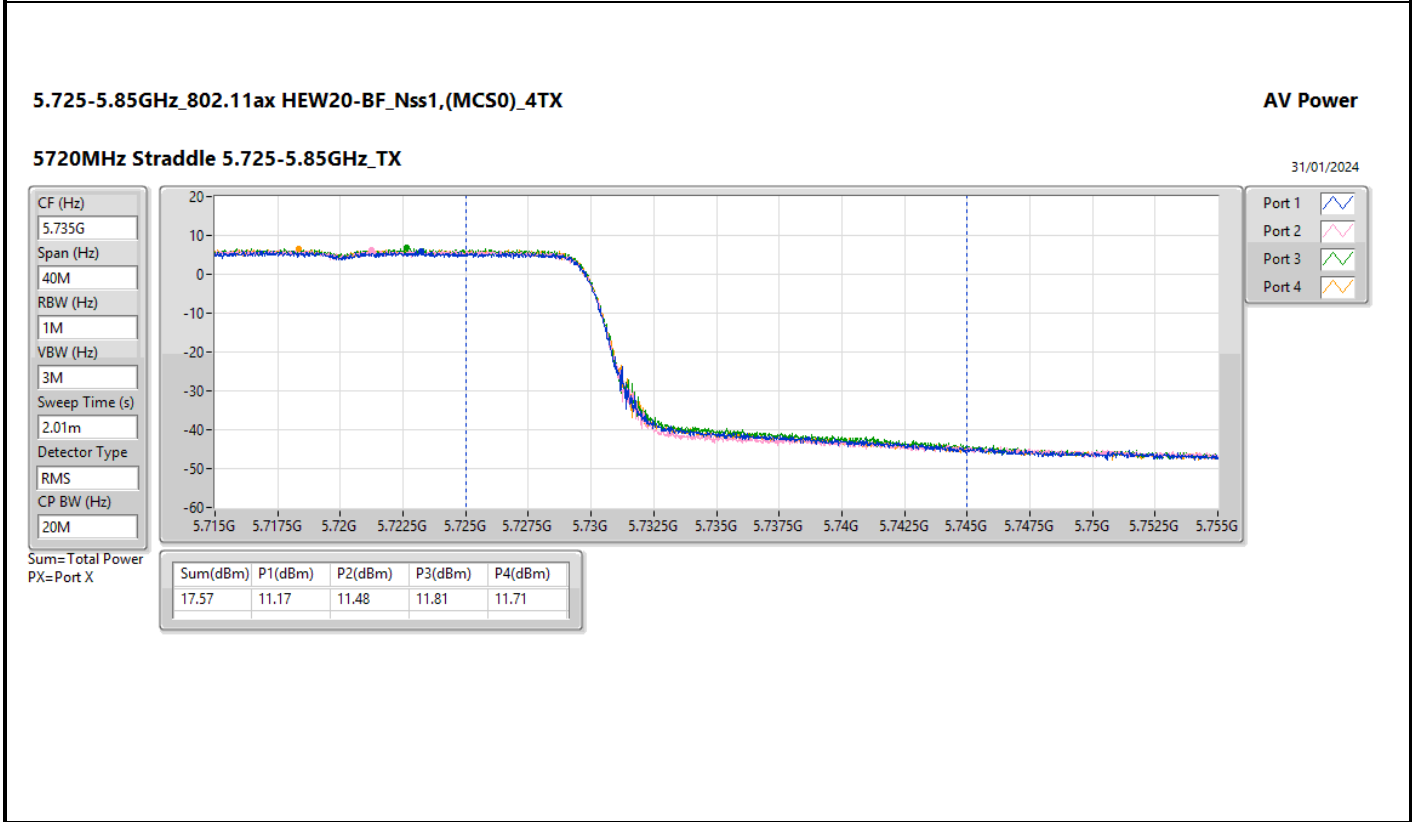
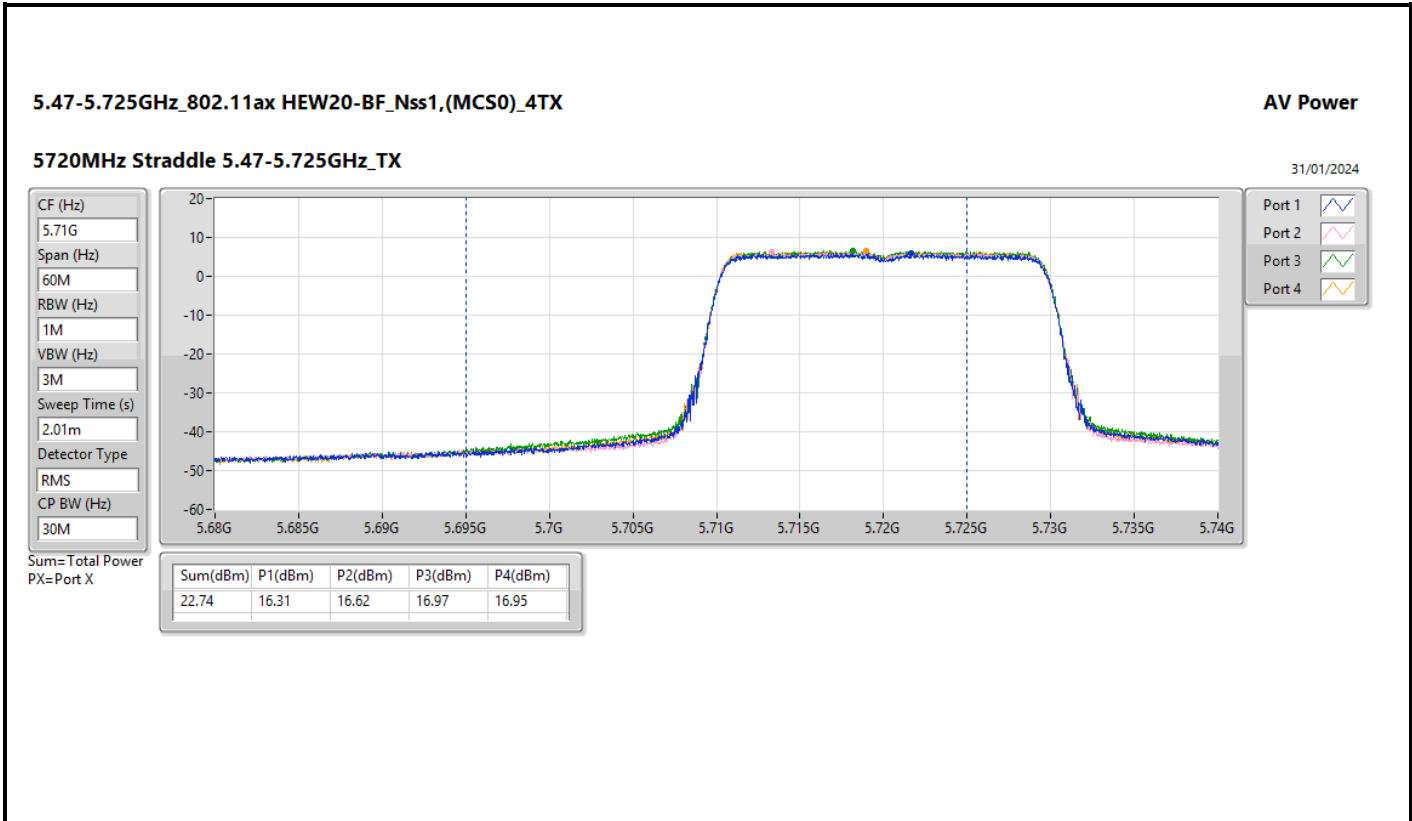


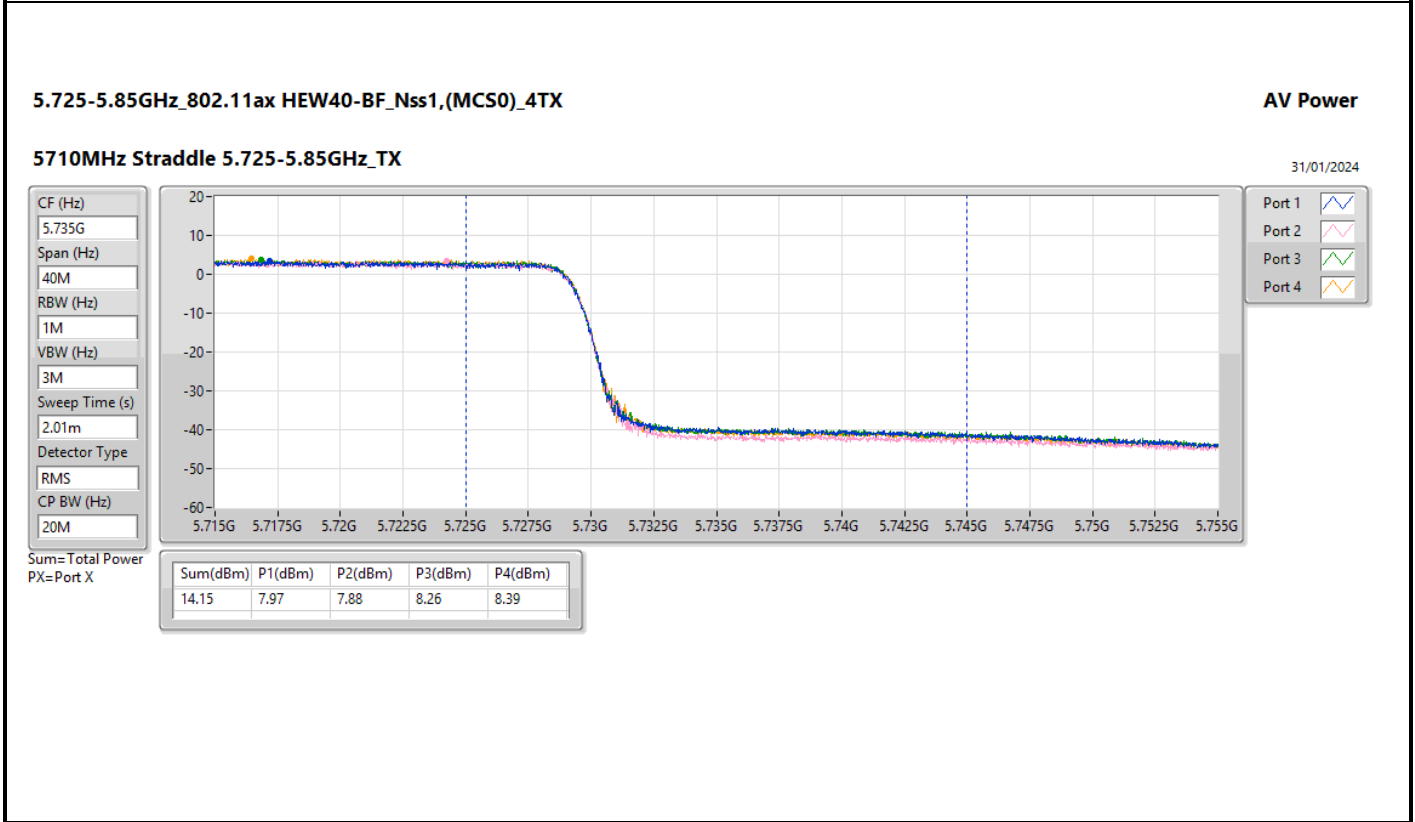
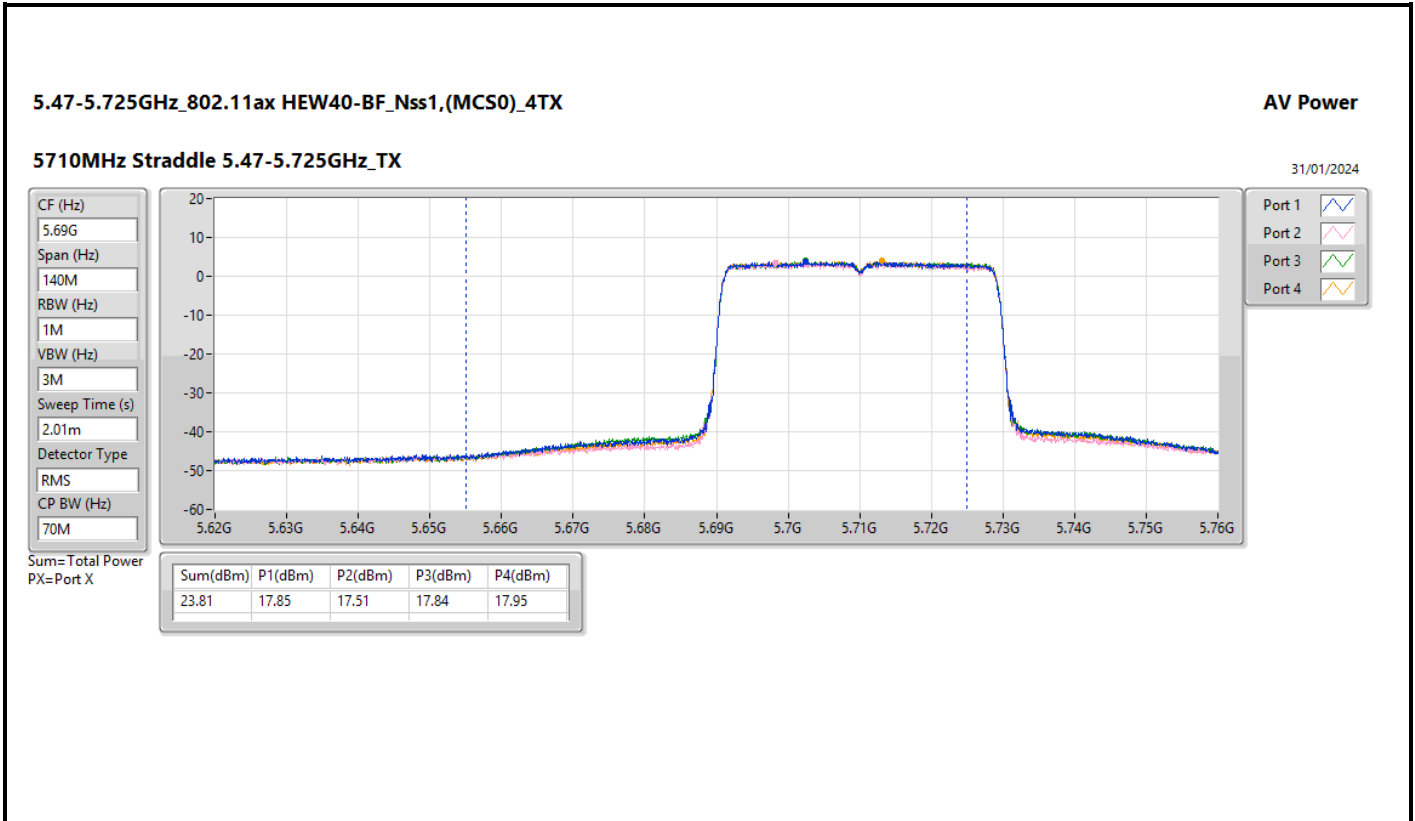




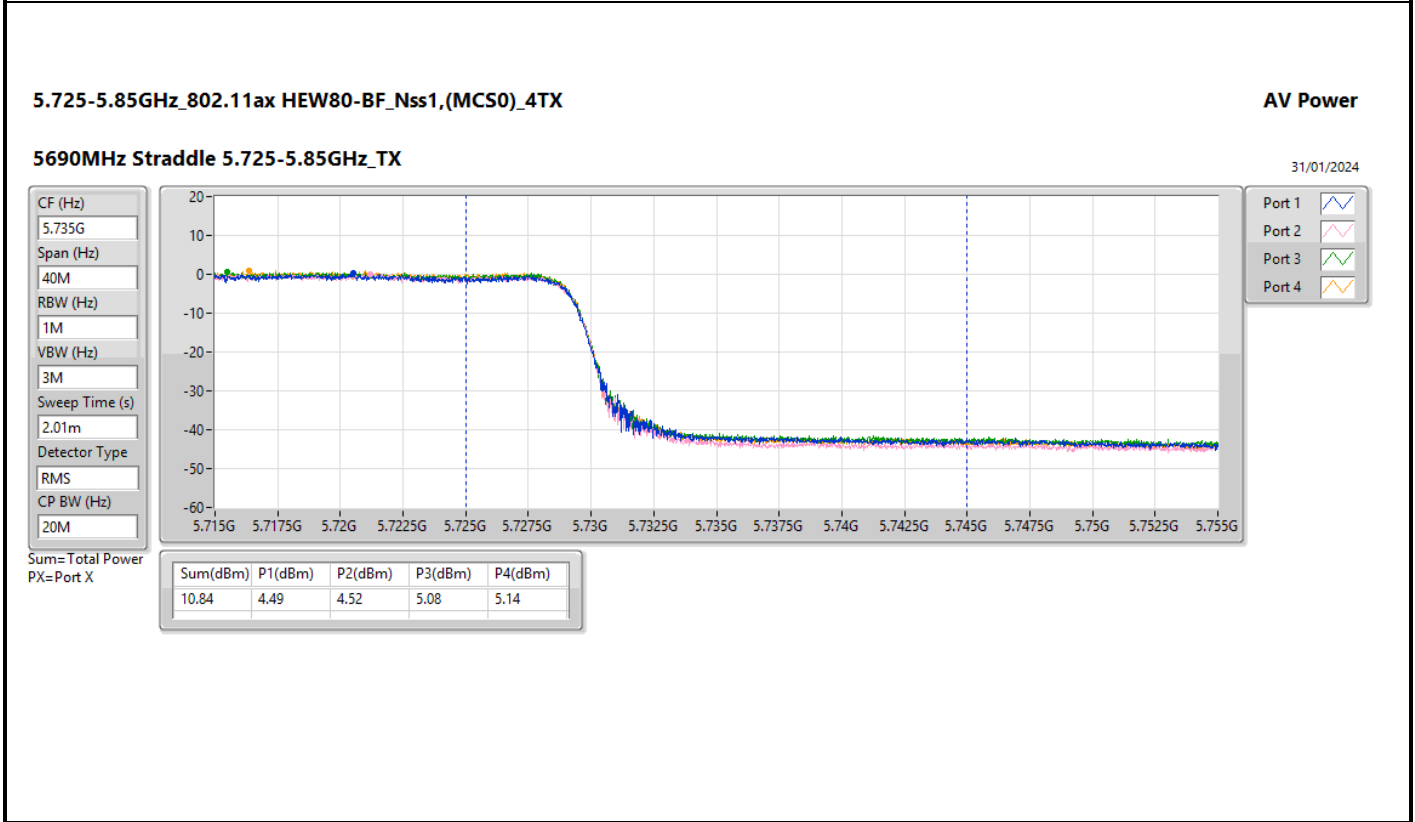
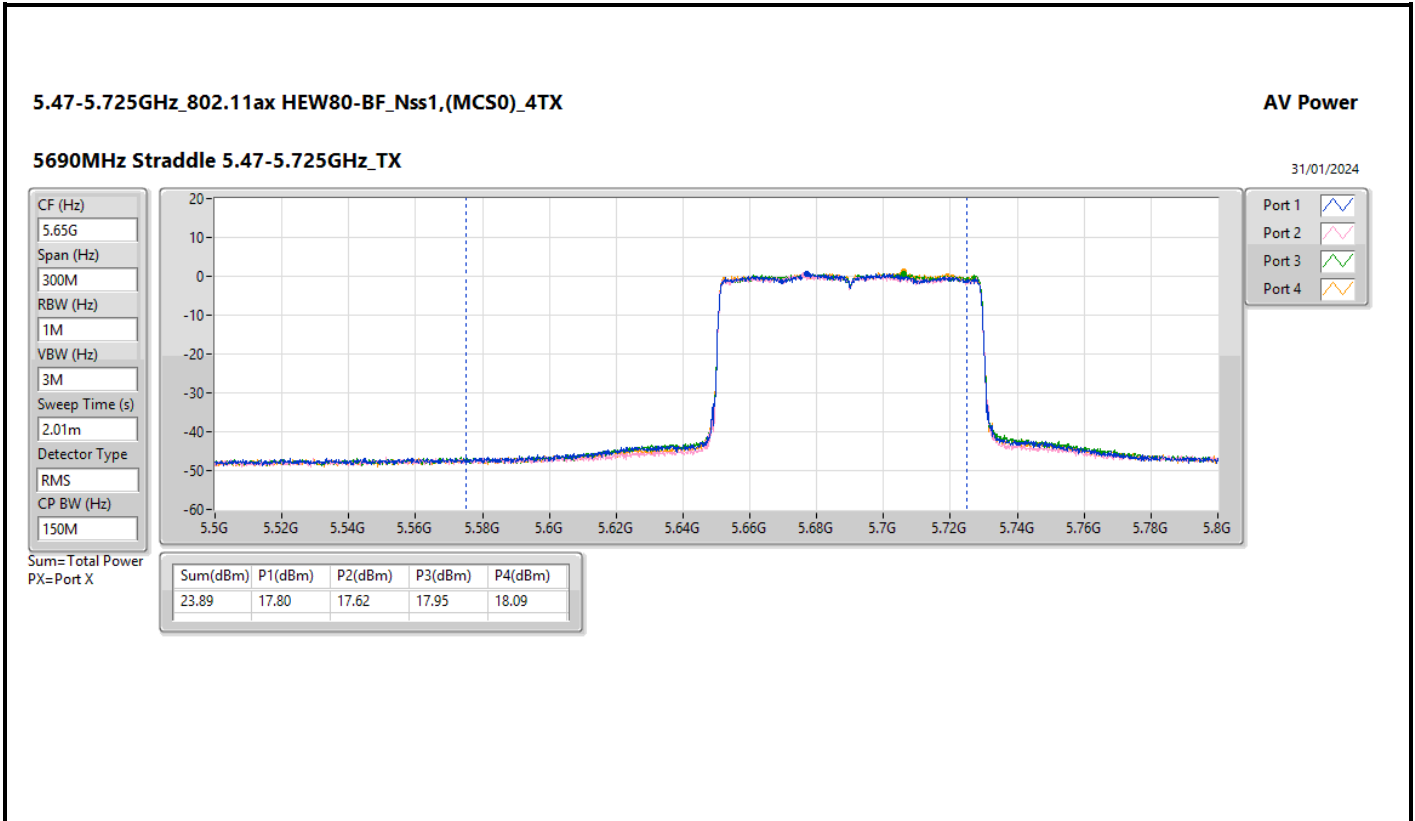


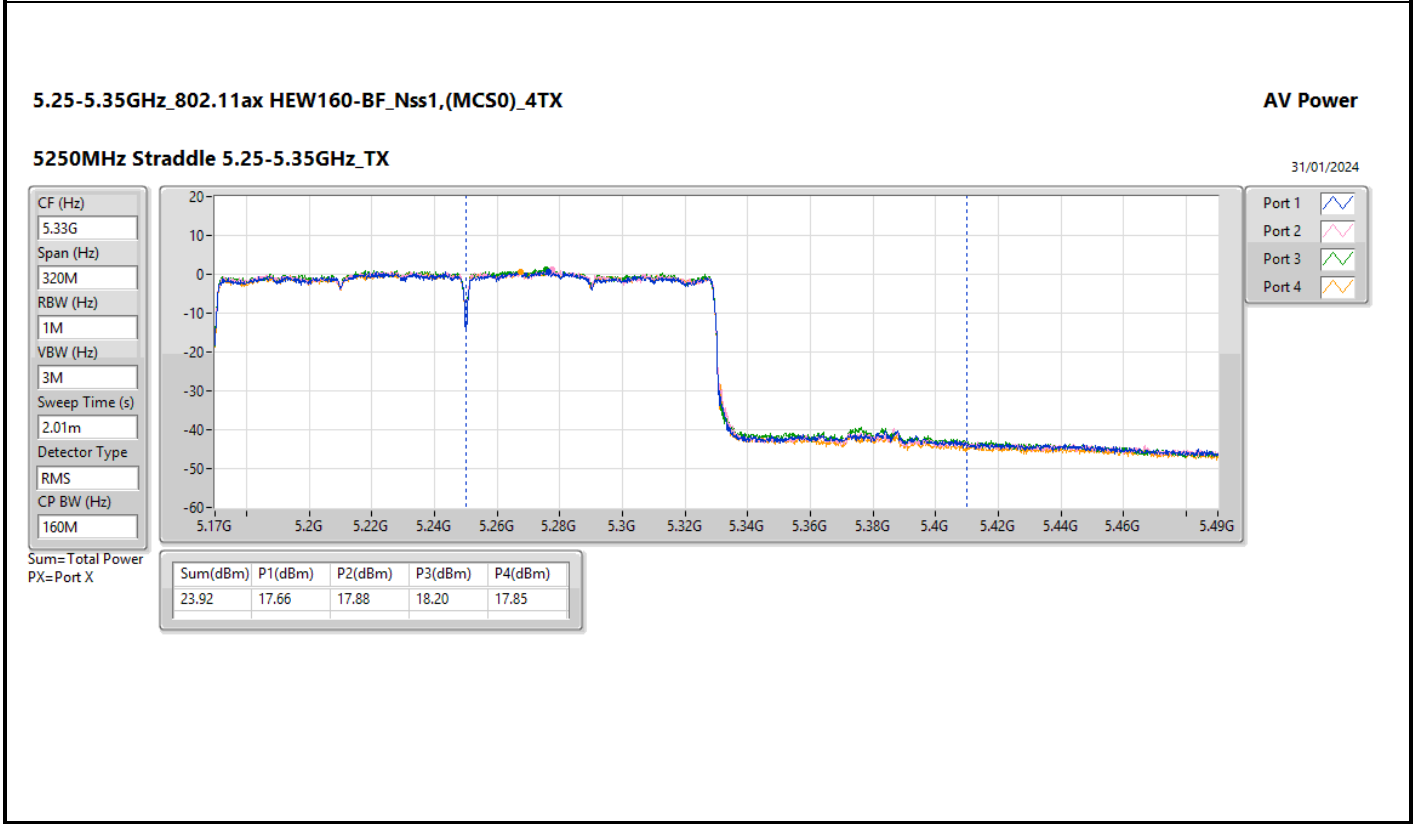
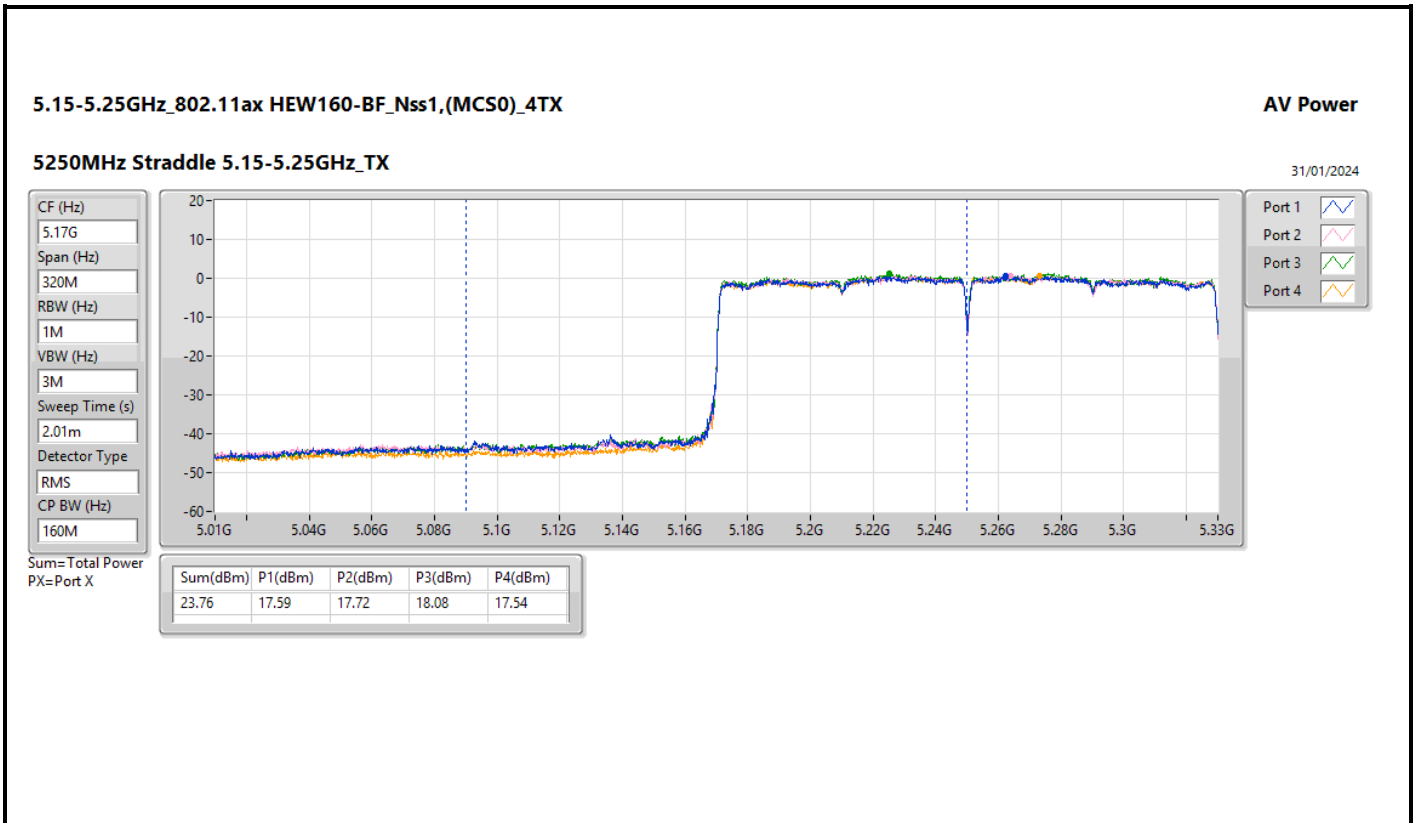












Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	16.99
802.11ax HEW20_Nss1,(MCS0)_4TX	16.52
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.78
802.11ax HEW40_Nss1,(MCS0)_4TX	11.81
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	13.56
802.11ax HEW80_Nss1,(MCS0)_4TX	3.80
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	6.73
802.11ax HEW160_Nss1,(MCS0)_4TX	-0.86
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.71
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.99
802.11ax HEW20_Nss1,(MCS0)_4TX	10.81
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.69
802.11ax HEW40_Nss1,(MCS0)_4TX	7.86
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.89
802.11ax HEW80_Nss1,(MCS0)_4TX	3.73
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.11
802.11ax HEW160_Nss1,(MCS0)_4TX	-0.67
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	4.93
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.89
802.11ax HEW20_Nss1,(MCS0)_4TX	10.46
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.40
802.11ax HEW40_Nss1,(MCS0)_4TX	7.61
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.59
802.11ax HEW80_Nss1,(MCS0)_4TX	4.87
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.80
802.11ax HEW160_Nss1,(MCS0)_4TX	0.45
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	2.53
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.31
802.11ax HEW20_Nss1,(MCS0)_4TX	14.73
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.78
802.11ax HEW40_Nss1,(MCS0)_4TX	12.08
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.05
802.11ax HEW80_Nss1,(MCS0)_4TX	7.36
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	7.73

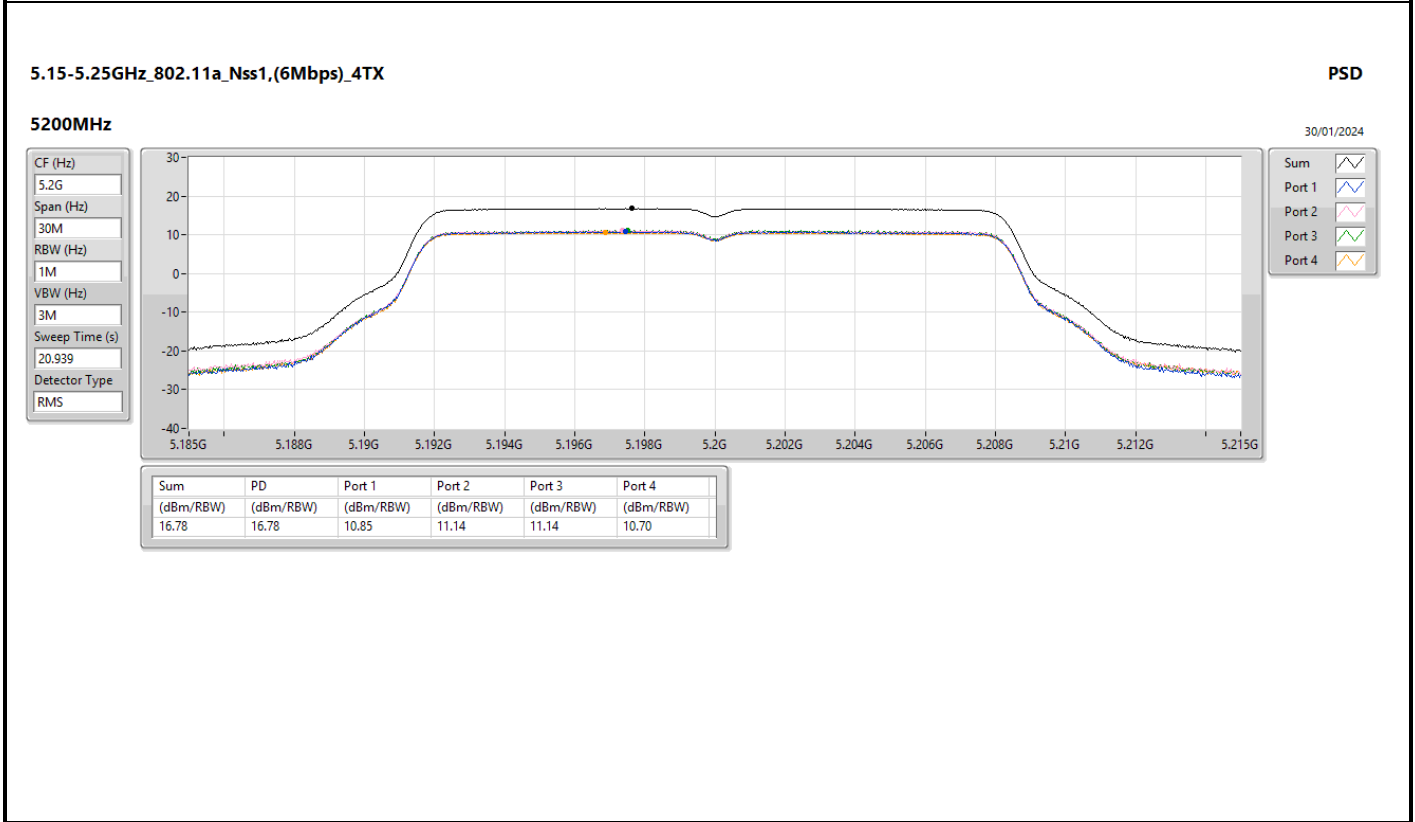
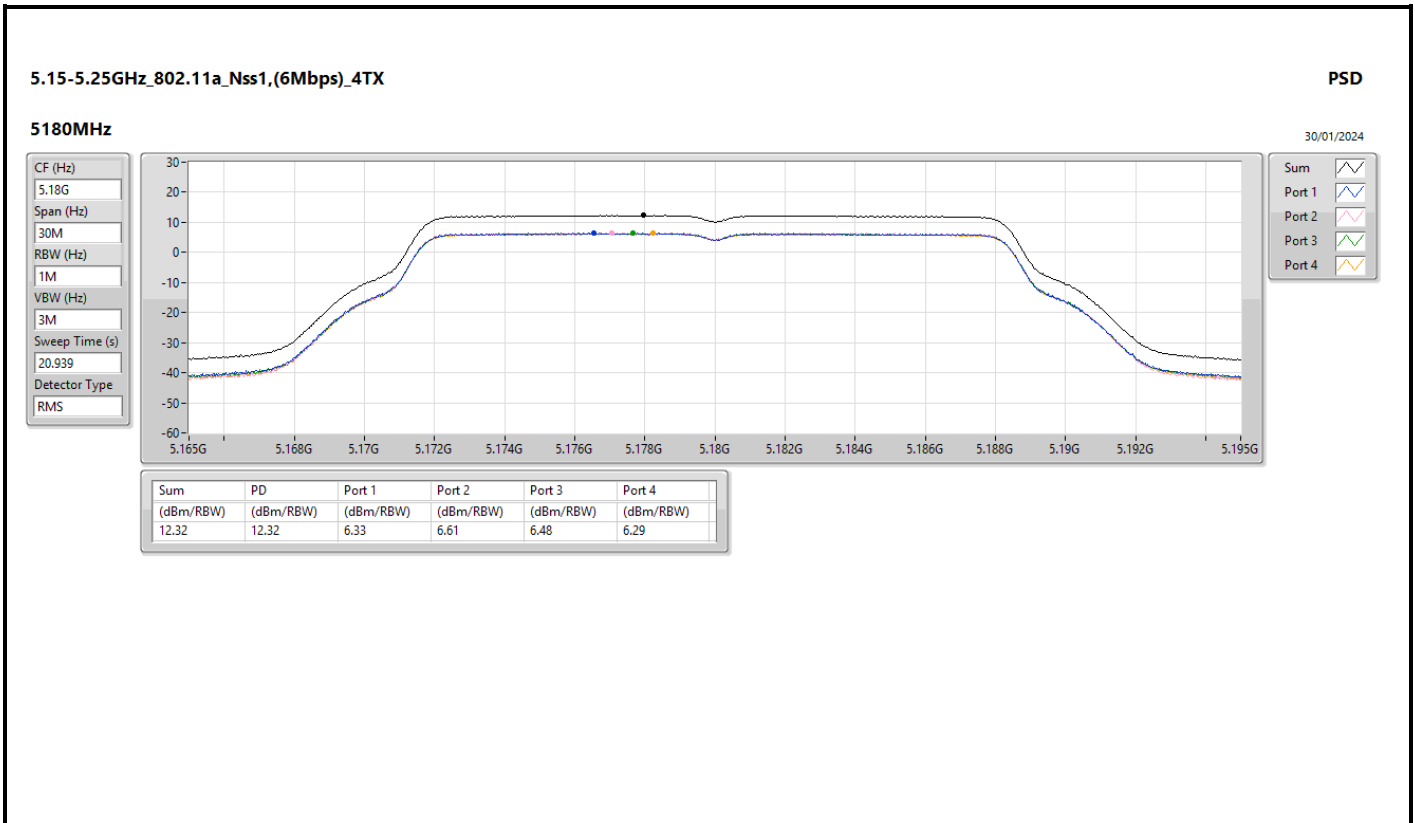
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

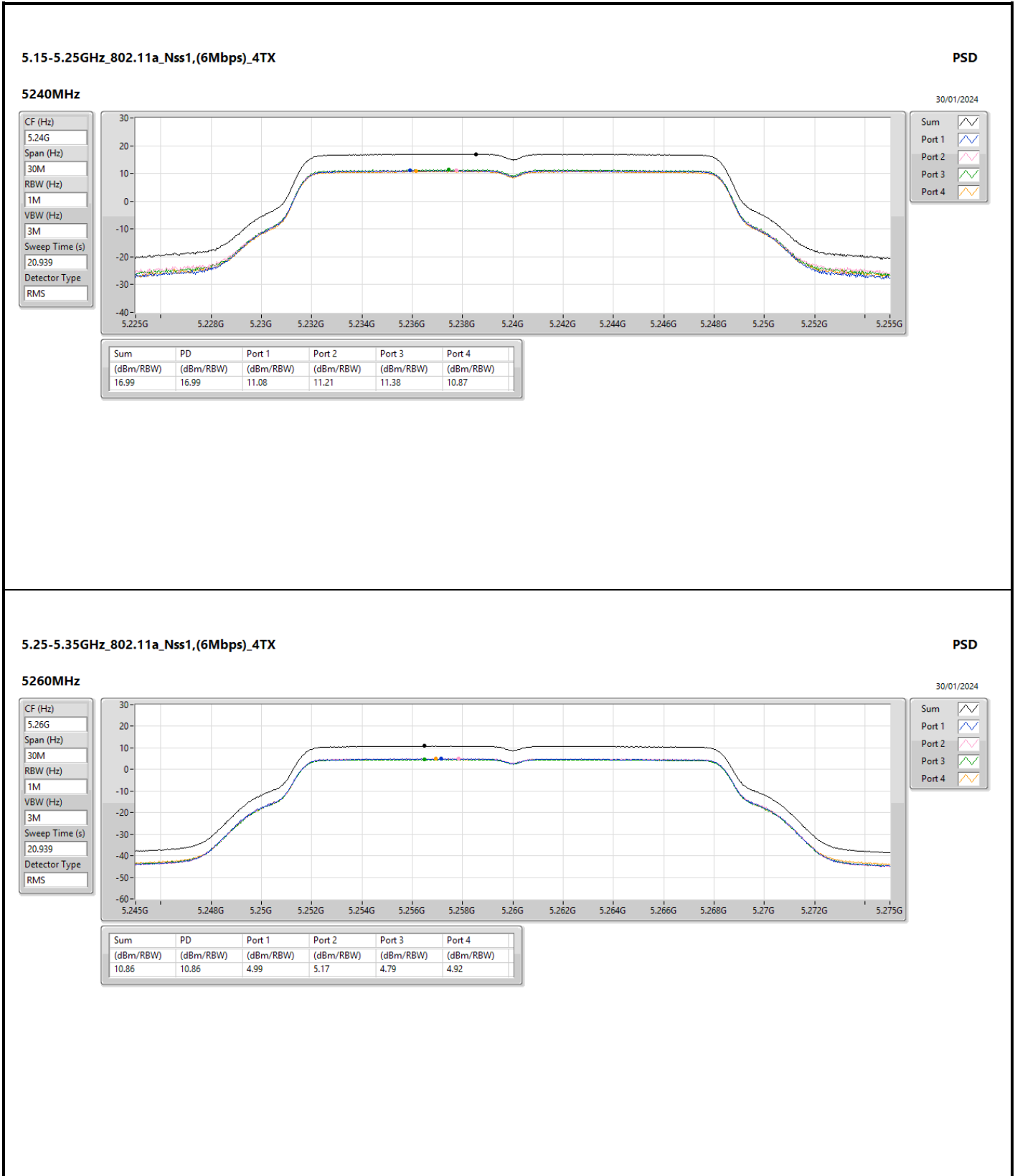
Result

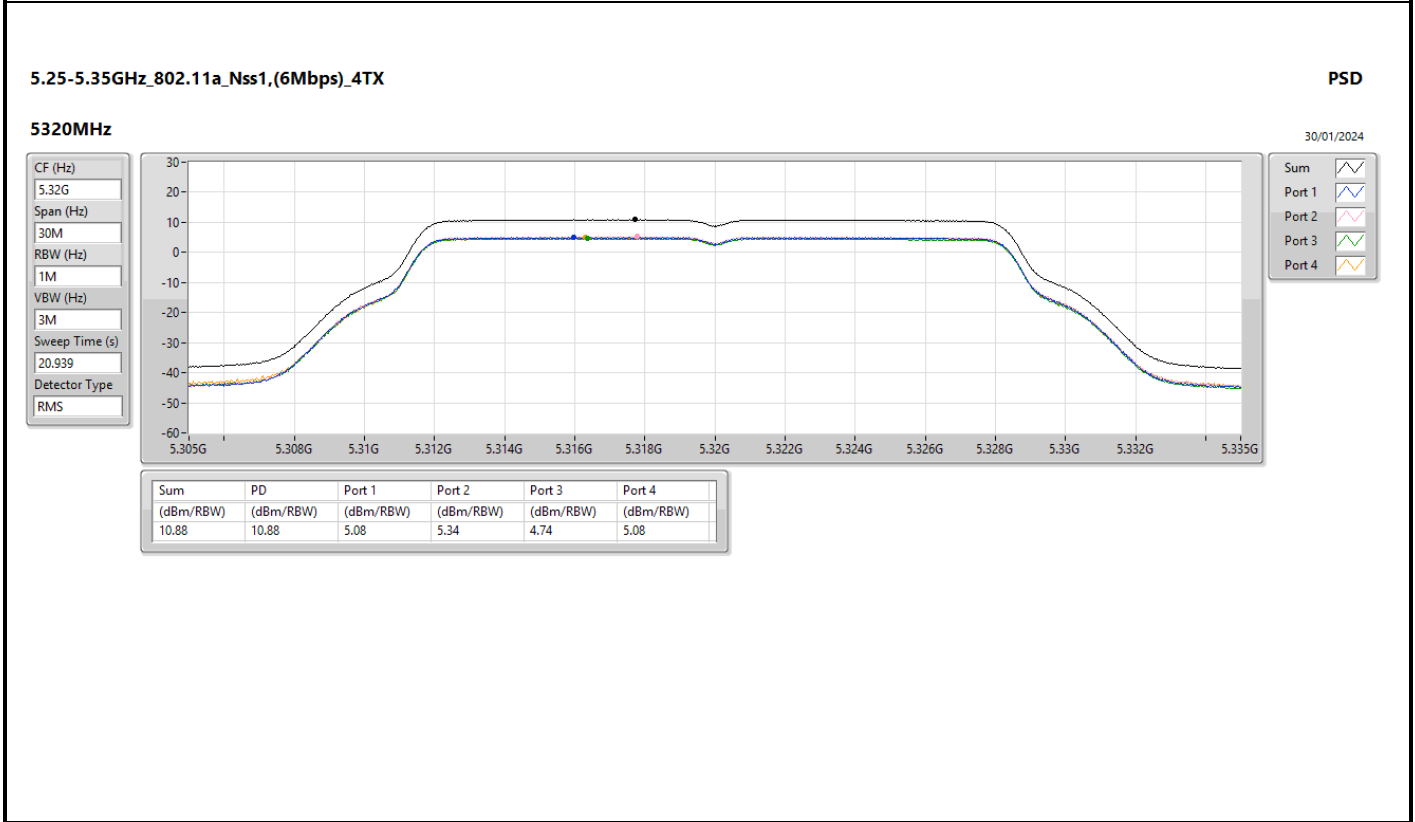
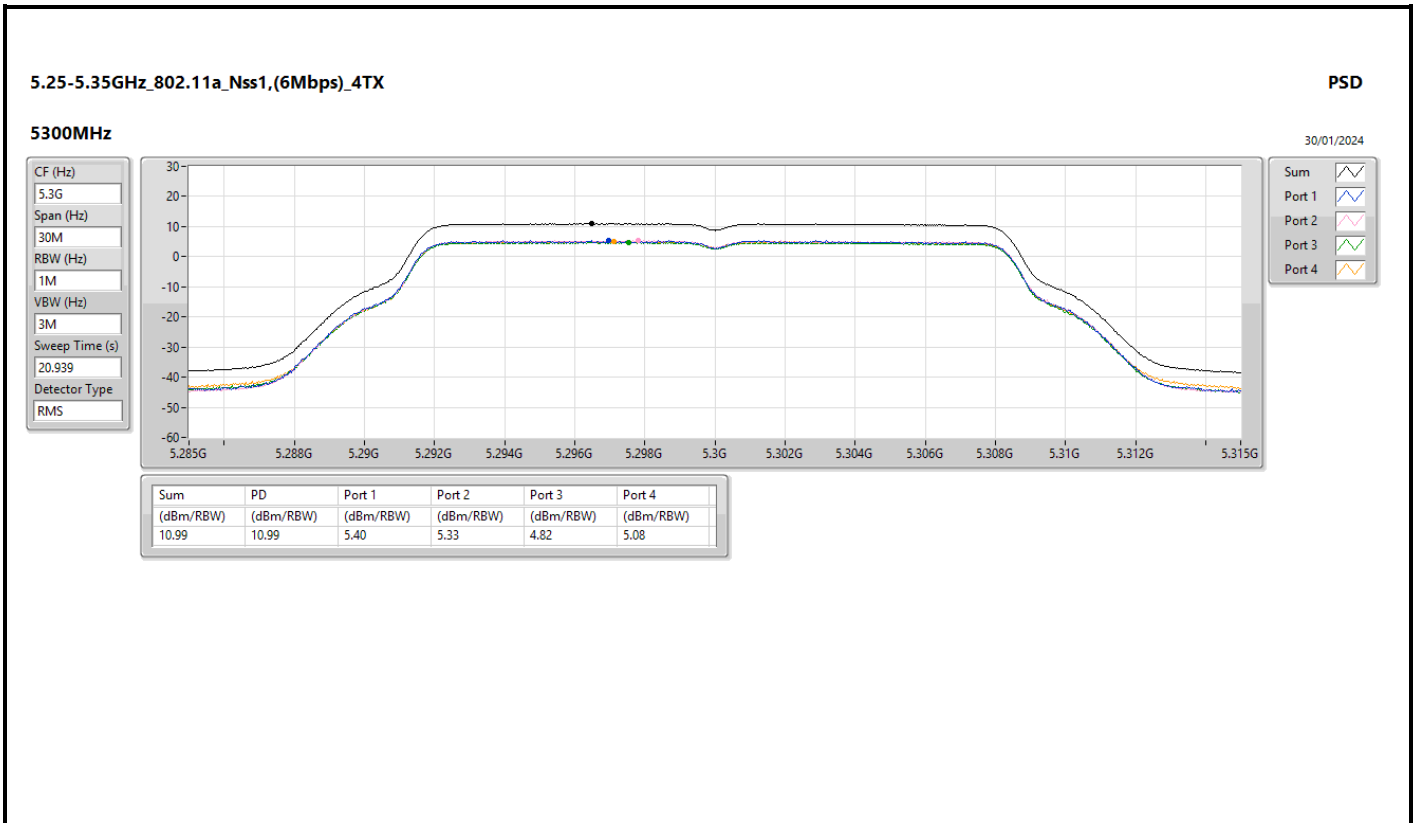
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.29	6.33	6.61	6.48	6.29	12.32	17.00
5200MHz	Pass	5.29	10.85	11.14	11.14	10.70	16.78	17.00
5240MHz	Pass	5.29	11.08	11.21	11.38	10.87	16.99	17.00
5260MHz	Pass	4.86	4.99	5.17	4.79	4.92	10.86	11.00
5300MHz	Pass	4.86	5.40	5.33	4.82	5.08	10.99	11.00
5320MHz	Pass	4.86	5.08	5.34	4.74	5.08	10.88	11.00
5500MHz	Pass	6.08	5.22	4.84	5.26	5.05	10.89	10.92
5580MHz	Pass	6.08	4.99	4.70	5.00	5.00	10.77	10.92
5700MHz	Pass	6.08	4.55	4.74	4.98	5.15	10.72	10.92
5720MHz Straddle 5.47-5.725GHz	Pass	6.08	4.19	4.57	4.93	4.92	10.50	10.92
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	2.39	3.00	3.01	3.15	8.74	30.00
5745MHz	Pass	5.90	9.65	9.56	9.40	9.01	15.27	30.00
5785MHz	Pass	5.90	9.62	9.61	9.69	9.12	15.31	30.00
5825MHz	Pass	5.90	9.26	9.54	9.80	9.10	15.17	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.29	6.71	6.88	6.68	6.58	12.68	17.00
5200MHz	Pass	5.29	9.98	10.19	10.22	9.86	16.02	17.00
5240MHz	Pass	5.29	10.66	10.72	10.71	10.43	16.52	17.00
5260MHz	Pass	4.86	5.07	5.10	4.83	4.70	10.81	11.00
5300MHz	Pass	4.86	4.43	4.57	4.42	4.16	10.35	11.00
5320MHz	Pass	4.86	4.50	4.32	4.35	4.22	10.32	11.00
5500MHz	Pass	6.08	4.30	4.39	4.70	4.20	10.37	10.92
5580MHz	Pass	6.08	4.26	4.13	4.35	4.08	10.15	10.92
5700MHz	Pass	6.08	4.17	4.54	4.72	4.93	10.46	10.92
5720MHz Straddle 5.47-5.725GHz	Pass	6.08	3.98	4.40	4.26	4.41	10.17	10.92
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	2.03	2.67	2.85	2.93	8.54	30.00
5745MHz	Pass	5.90	9.08	9.09	8.67	8.52	14.73	30.00
5785MHz	Pass	5.90	9.04	9.14	8.68	8.34	14.73	30.00
5825MHz	Pass	5.90	8.48	8.81	8.58	8.22	14.44	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.29	-0.03	-0.30	-0.07	-0.11	5.84	17.00
5230MHz	Pass	5.29	6.01	5.74	6.11	5.60	11.81	17.00
5270MHz	Pass	4.86	2.13	2.16	1.79	1.39	7.86	11.00
5310MHz	Pass	4.86	0.40	0.15	0.28	-0.23	6.12	11.00
5510MHz	Pass	6.08	1.61	1.54	1.58	1.78	7.57	10.92
5550MHz	Pass	6.08	1.69	1.59	1.50	1.78	7.54	10.92
5670MHz	Pass	6.08	1.56	1.21	1.71	1.74	7.47	10.92
5710MHz Straddle 5.47-5.725GHz	Pass	6.08	1.87	1.44	1.67	1.82	7.61	10.92
5710MHz Straddle 5.725-5.85GHz	Pass	5.90	-0.49	-0.65	-0.25	-0.27	5.53	30.00
5755MHz	Pass	5.90	6.21	6.37	6.29	5.84	12.07	30.00
5795MHz	Pass	5.90	6.20	6.32	6.22	5.82	12.08	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.29	-2.06	-2.20	-2.24	-2.36	3.80	17.00
5290MHz	Pass	4.86	-2.21	-2.06	-2.24	-2.40	3.73	11.00
5530MHz	Pass	6.08	-1.26	-1.08	-0.99	-0.92	4.87	10.92
5610MHz	Pass	6.08	-1.22	-1.37	-1.12	-1.05	4.78	10.92
5690MHz Straddle 5.47-5.725GHz	Pass	6.08	-1.52	-1.79	-1.27	-1.40	4.43	10.92
5690MHz Straddle 5.725-5.85GHz	Pass	5.90	-3.89	-4.07	-3.26	-3.59	2.31	30.00
5775MHz	Pass	5.90	1.61	1.41	1.61	0.88	7.36	30.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.29	-7.06	-6.92	-6.44	-6.94	-0.86	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.86	-6.84	-6.83	-6.27	-6.59	-0.67	11.00
5570MHz	Pass	6.08	-5.40	-5.42	-5.56	-5.55	0.45	10.92
802.11ax HEW20-BF_Nss1,(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	5.29	6.66	6.80	6.58	6.66	12.63	17.00
5200MHz	Pass	5.29	10.10	10.25	10.22	9.92	16.07	17.00
5240MHz	Pass	5.29	10.92	10.71	10.99	10.64	16.78	17.00
5260MHz	Pass	4.86	4.90	4.74	4.74	4.53	10.69	11.00
5300MHz	Pass	4.86	4.81	4.95	4.55	4.48	10.68	11.00
5320MHz	Pass	4.86	4.87	4.70	4.51	4.54	10.63	11.00
5500MHz	Pass	6.08	4.38	4.38	4.75	4.28	10.40	10.92
5580MHz	Pass	6.08	4.33	4.18	4.41	4.14	10.20	10.92
5700MHz	Pass	6.08	1.44	1.79	2.00	1.97	7.72	10.92
5720MHz Straddle 5.47-5.725GHz	Pass	6.08	3.89	4.15	4.42	4.39	10.12	10.92
5720MHz Straddle 5.725-5.85GHz	Pass	5.90	2.06	2.43	2.78	2.61	8.44	30.00
5745MHz	Pass	5.90	8.99	9.02	8.60	8.52	14.66	30.00
5785MHz	Pass	5.90	9.04	9.13	8.74	8.50	14.78	30.00
5825MHz	Pass	5.90	8.58	8.84	8.71	8.20	14.54	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.29	1.90	1.82	2.03	1.73	7.85	17.00
5230MHz	Pass	5.29	7.65	7.54	7.68	7.41	13.56	17.00
5270MHz	Pass	4.86	2.10	2.18	1.78	1.60	7.89	11.00
5310MHz	Pass	4.86	1.21	1.16	1.26	0.79	7.09	11.00
5510MHz	Pass	6.08	1.67	1.16	1.41	1.67	7.42	10.92
5550MHz	Pass	6.08	1.58	1.47	1.38	1.64	7.43	10.92
5670MHz	Pass	6.08	1.48	1.24	1.66	1.81	7.48	10.92
5710MHz Straddle 5.47-5.725GHz	Pass	6.08	1.77	1.37	1.72	1.92	7.59	10.92
5710MHz Straddle 5.725-5.85GHz	Pass	5.90	-0.55	-0.59	-0.21	-0.13	5.58	30.00
5755MHz	Pass	5.90	5.91	6.29	6.01	5.58	11.86	30.00
5795MHz	Pass	5.90	6.09	6.37	6.31	5.63	12.05	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.29	0.92	0.69	0.75	0.53	6.73	17.00
5290MHz	Pass	4.86	-0.79	-0.86	-0.84	-0.91	5.11	11.00
5530MHz	Pass	6.08	-1.31	-1.15	-1.11	-1.09	4.80	10.92
5610MHz	Pass	6.08	-1.45	-1.34	-1.24	-1.13	4.68	10.92
5690MHz Straddle 5.47-5.725GHz	Pass	6.08	-1.37	-1.55	-1.14	-1.01	4.64	10.92
5690MHz Straddle 5.725-5.85GHz	Pass	5.90	-3.76	-3.89	-3.24	-3.18	2.47	30.00
5775MHz	Pass	5.90	1.90	1.76	2.03	1.25	7.73	30.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.29	-1.50	-1.27	-0.94	-1.45	4.71	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.86	-1.31	-1.15	-0.67	-1.15	4.93	11.00
5570MHz	Pass	6.08	-3.33	-3.32	-3.52	-3.50	2.53	10.92

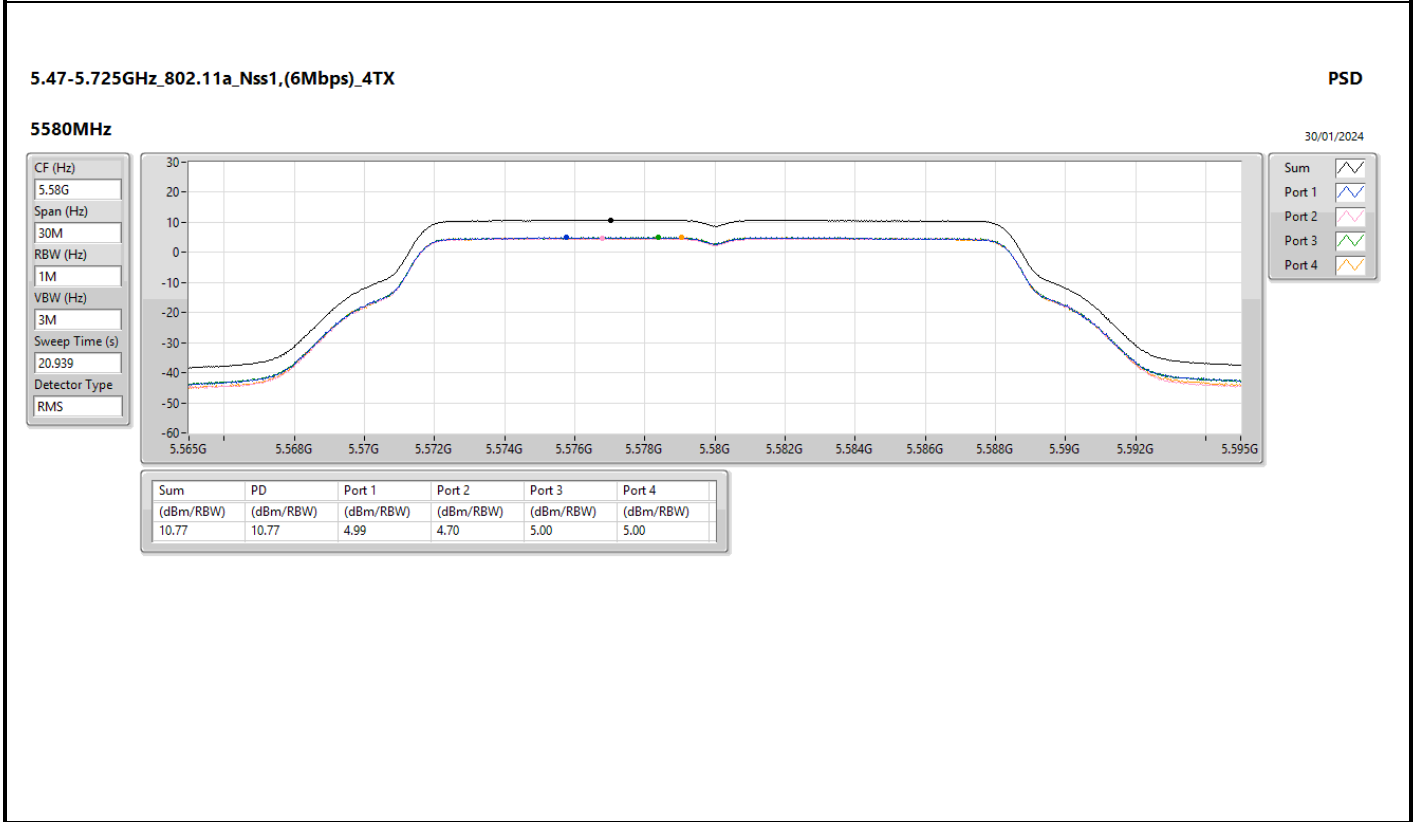
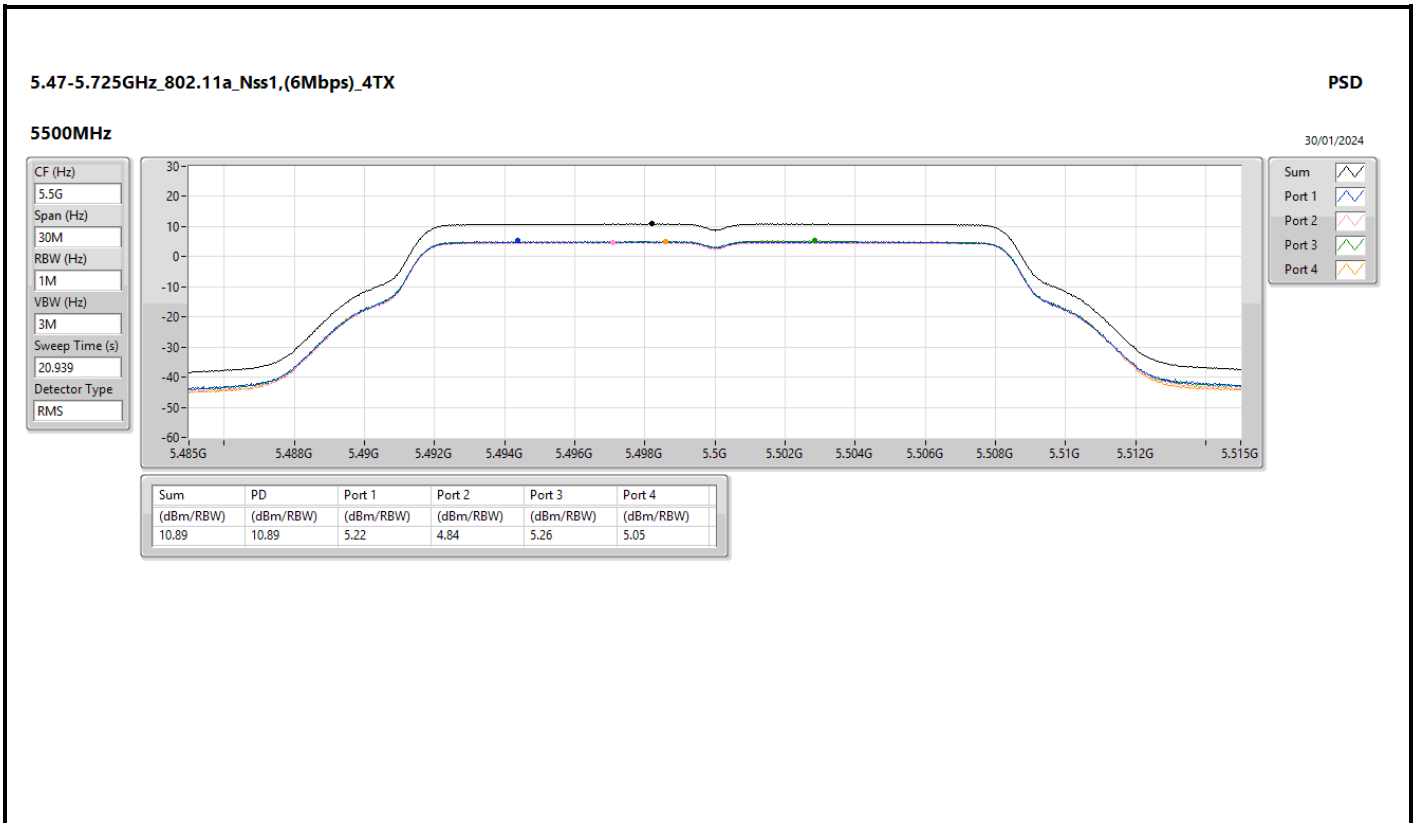
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;  
 PD = trace bin-by-bin of each transmit port summing can be performed maximum power density; Port X = Port X Power Density;

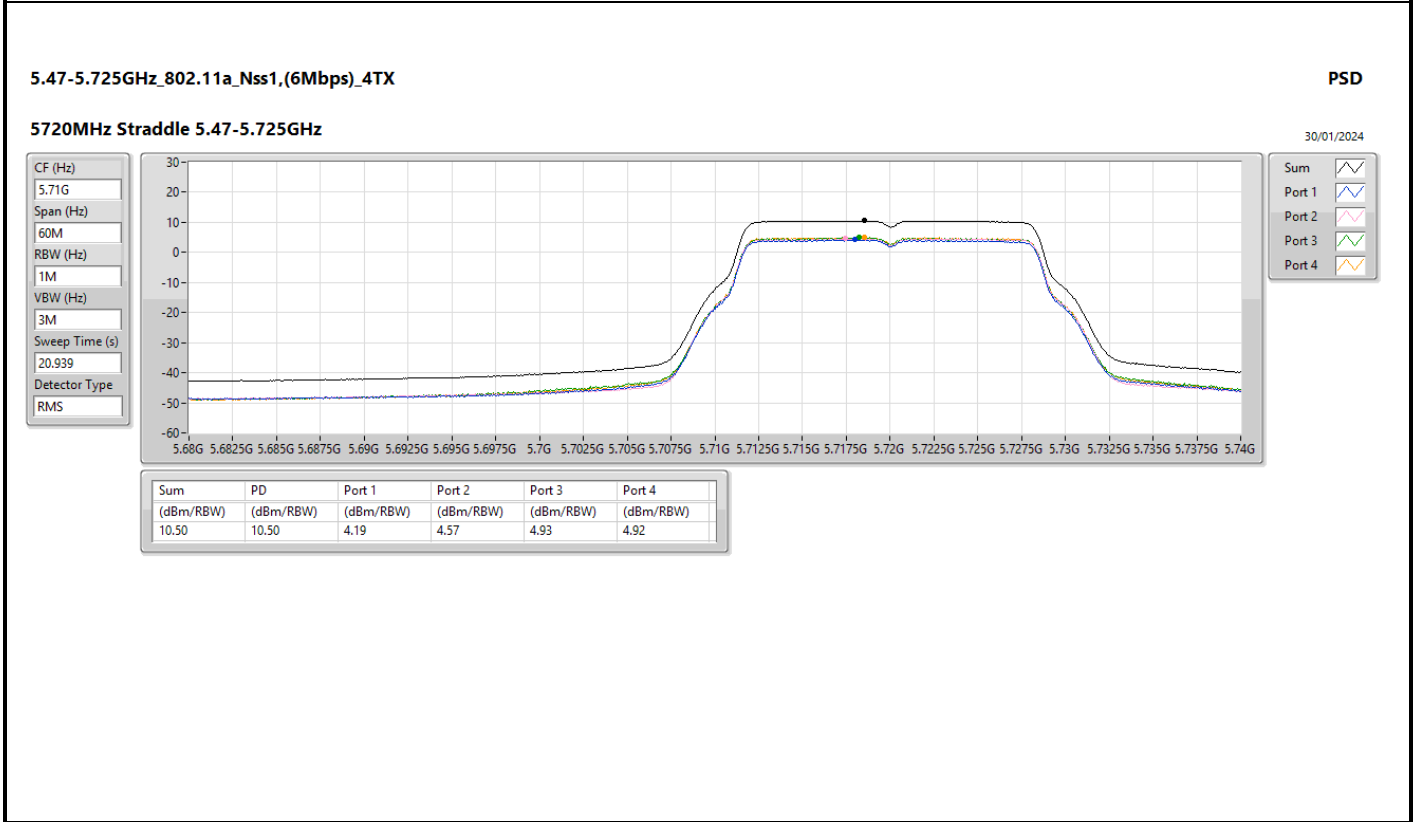
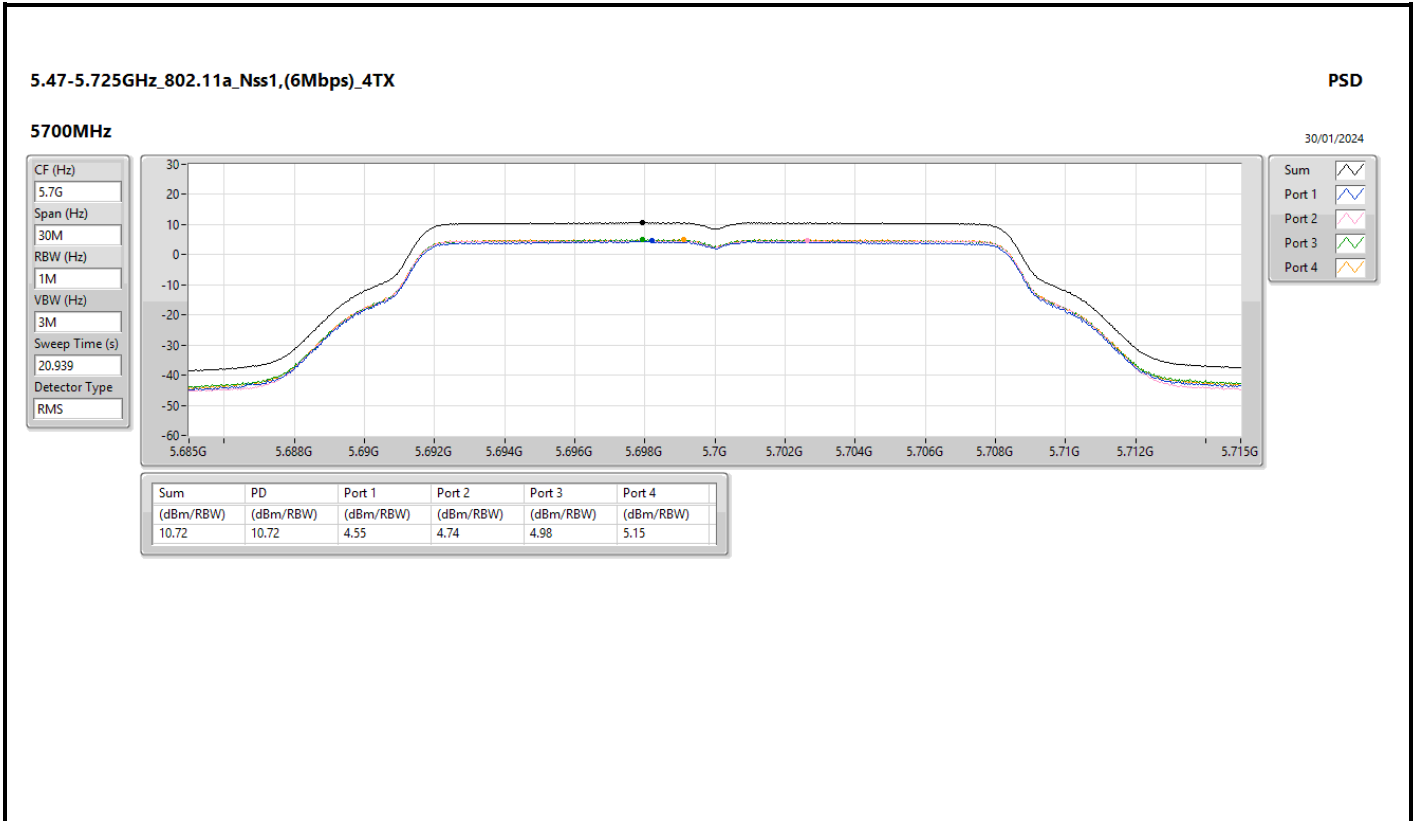


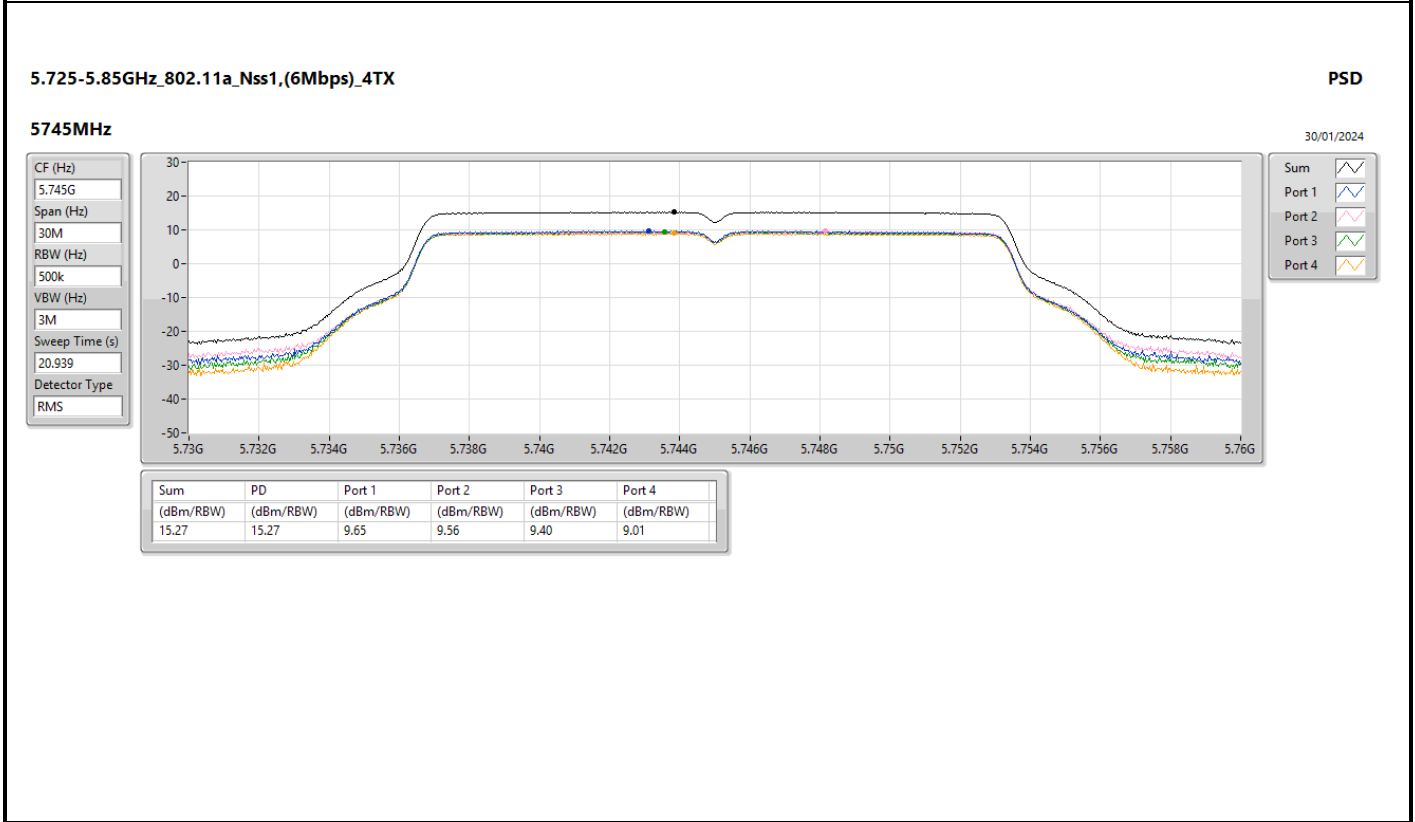
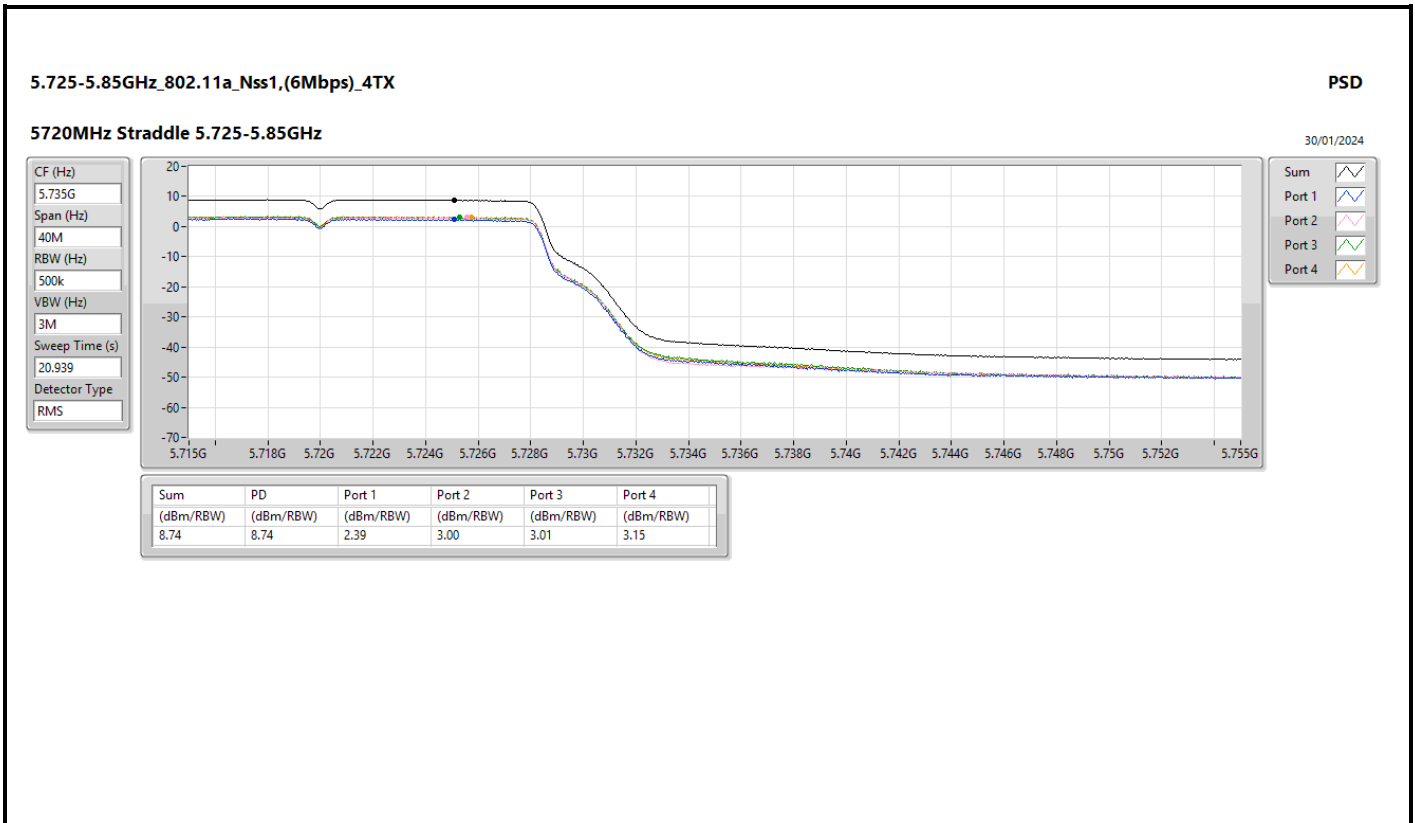


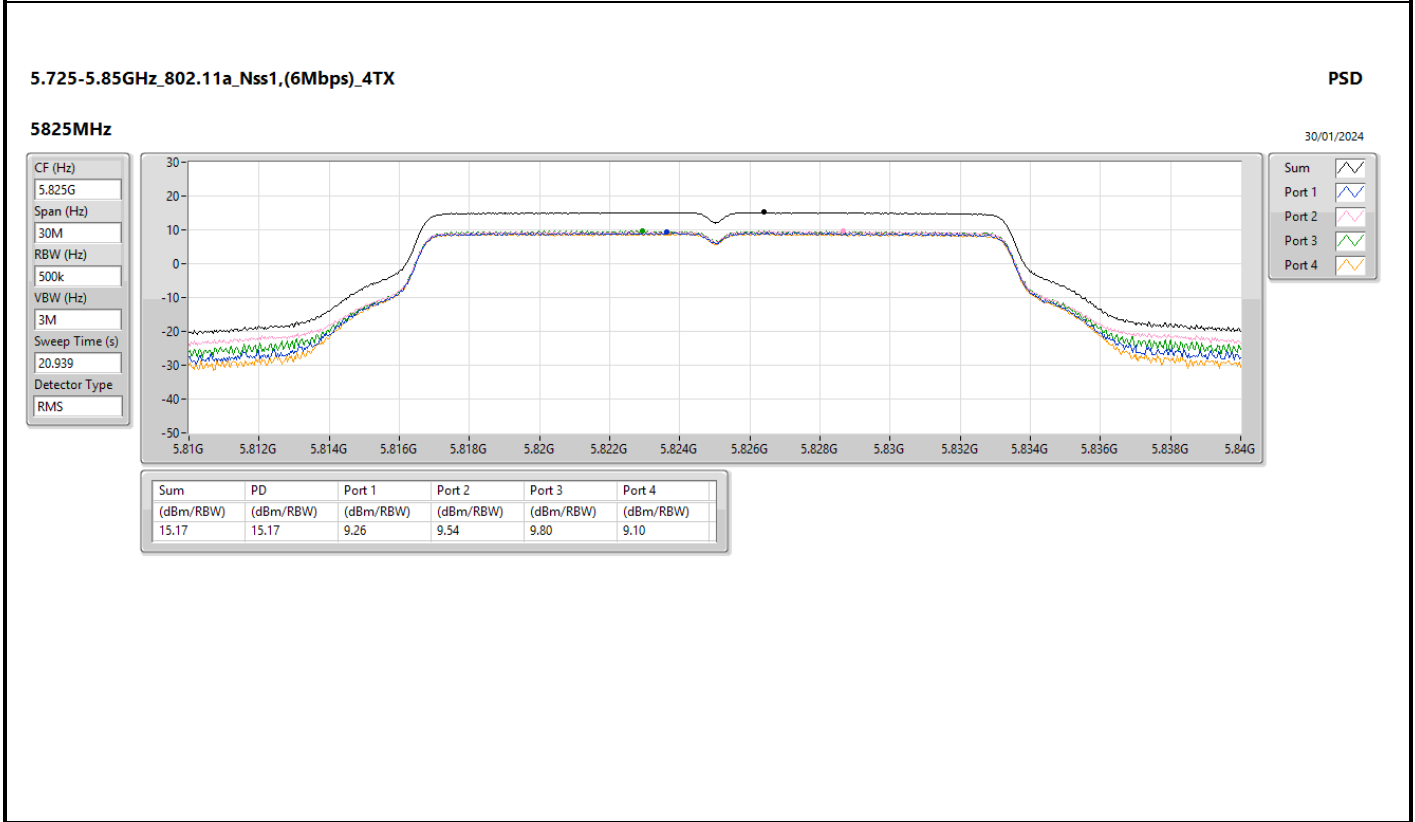
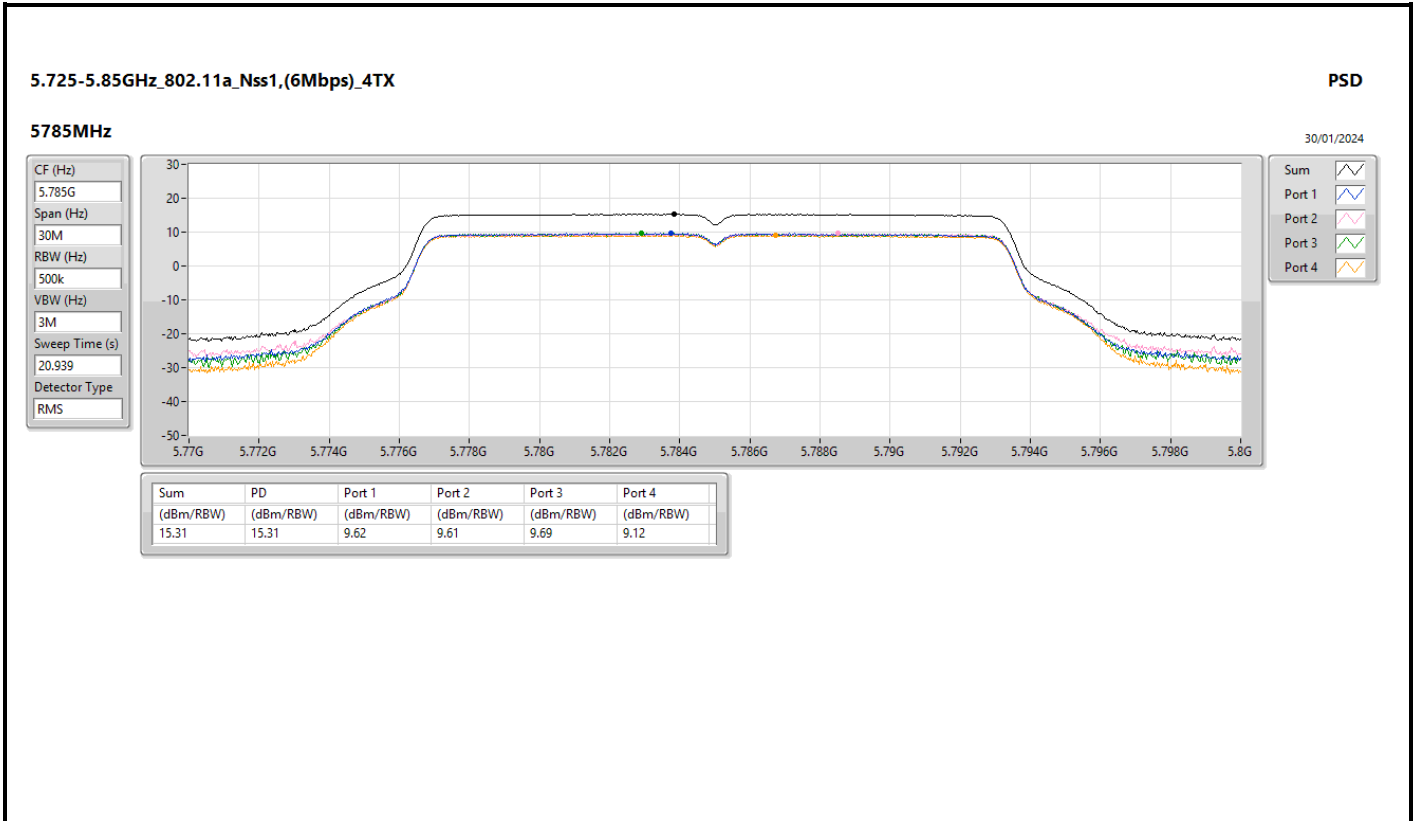


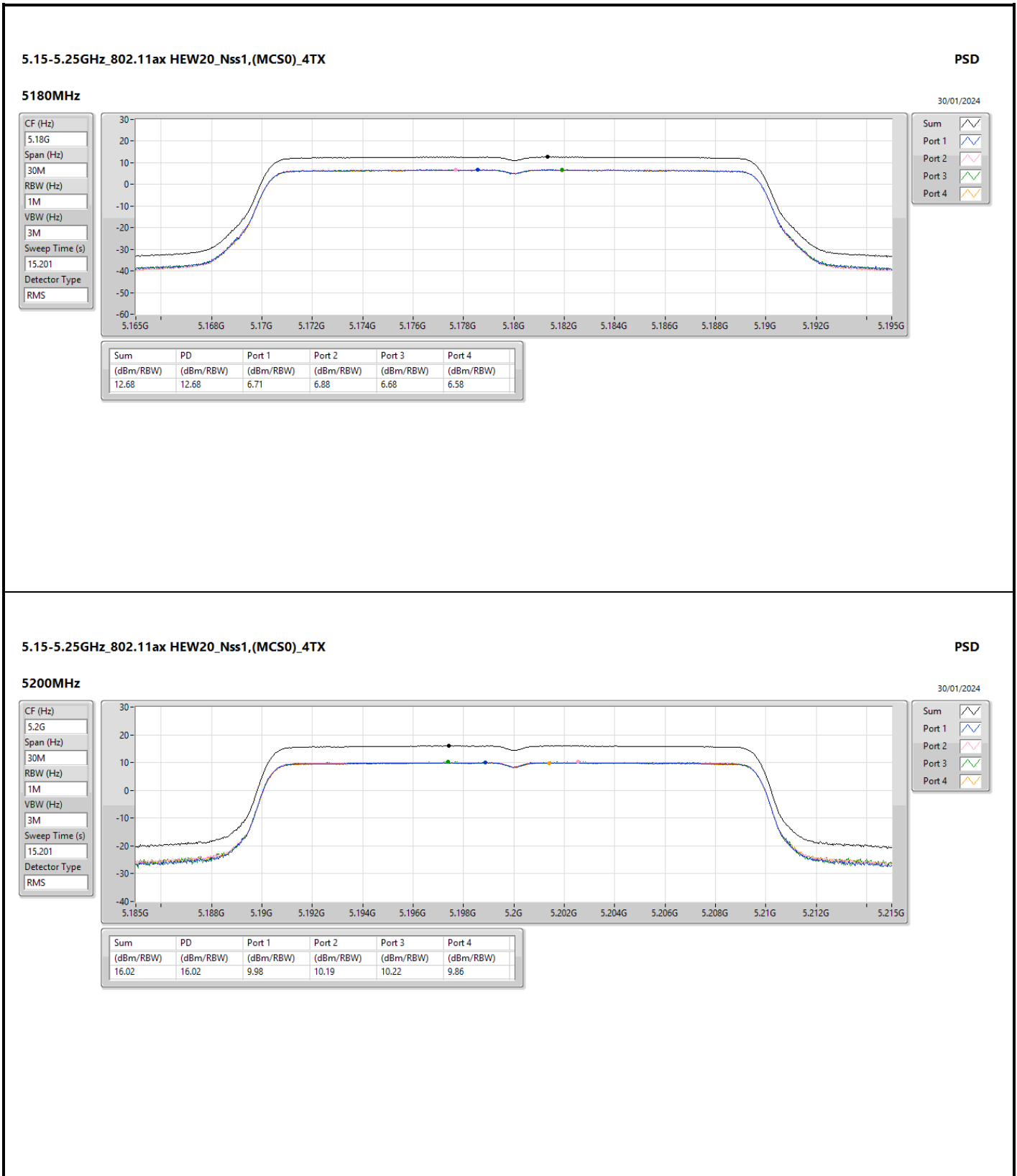


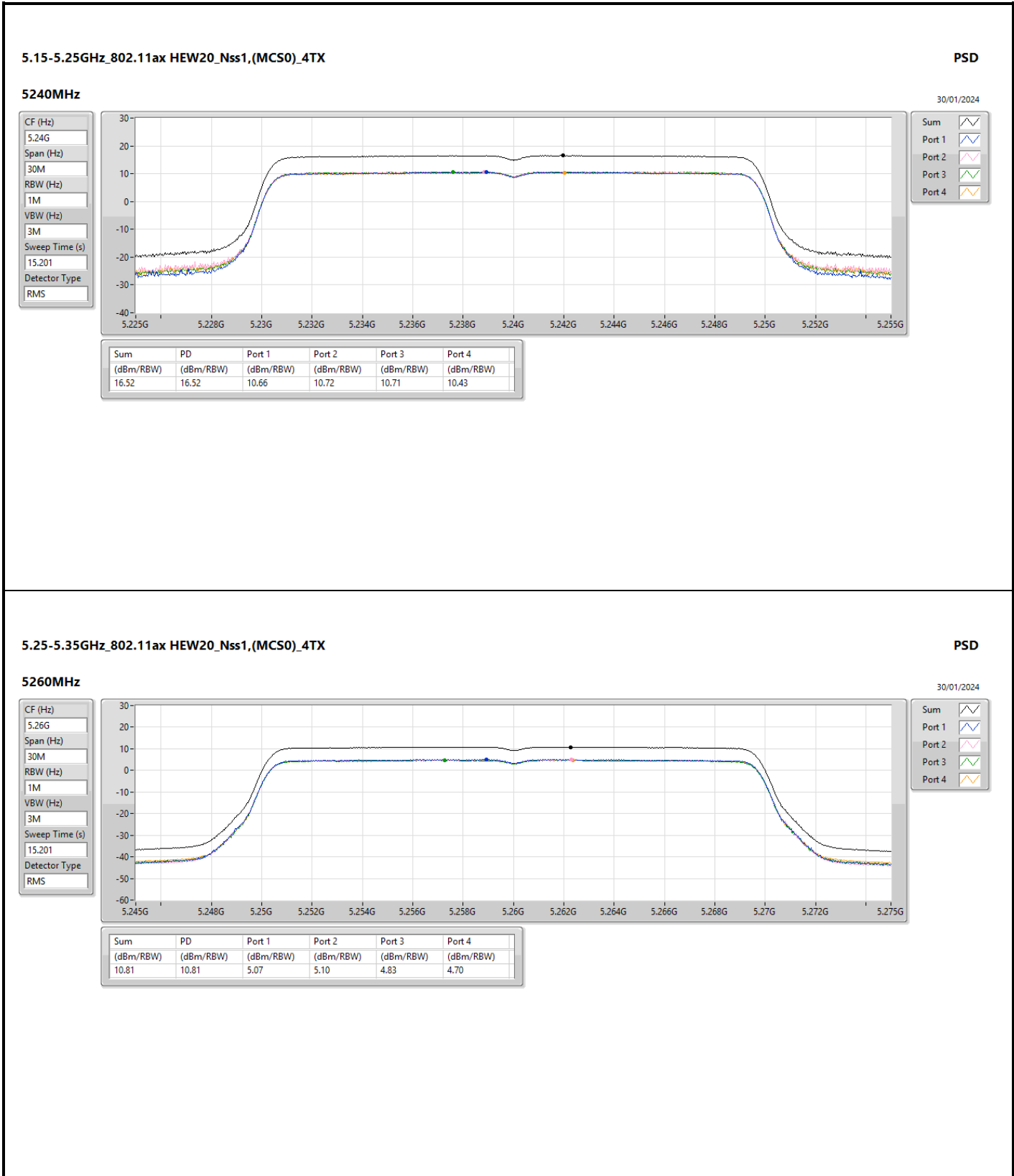


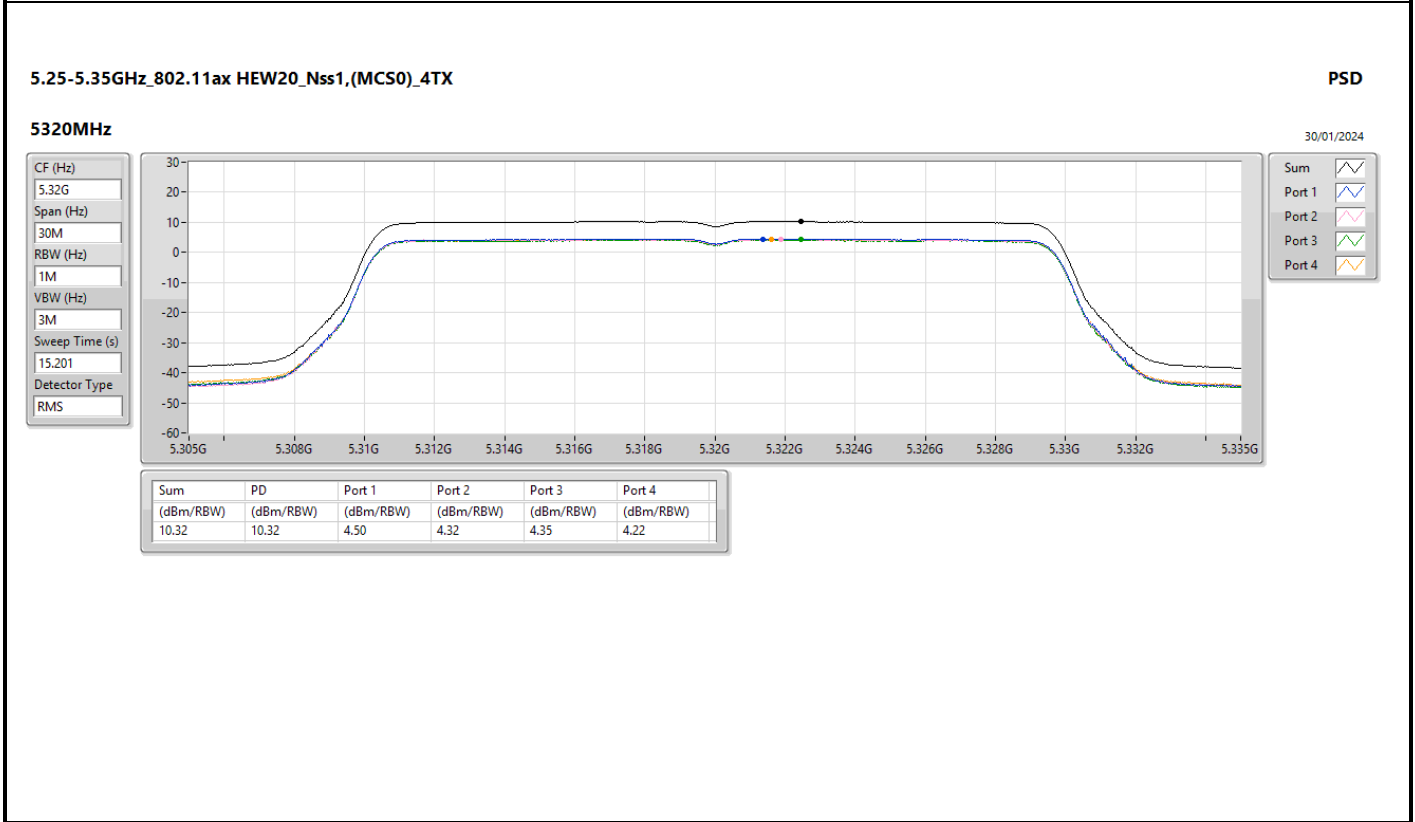
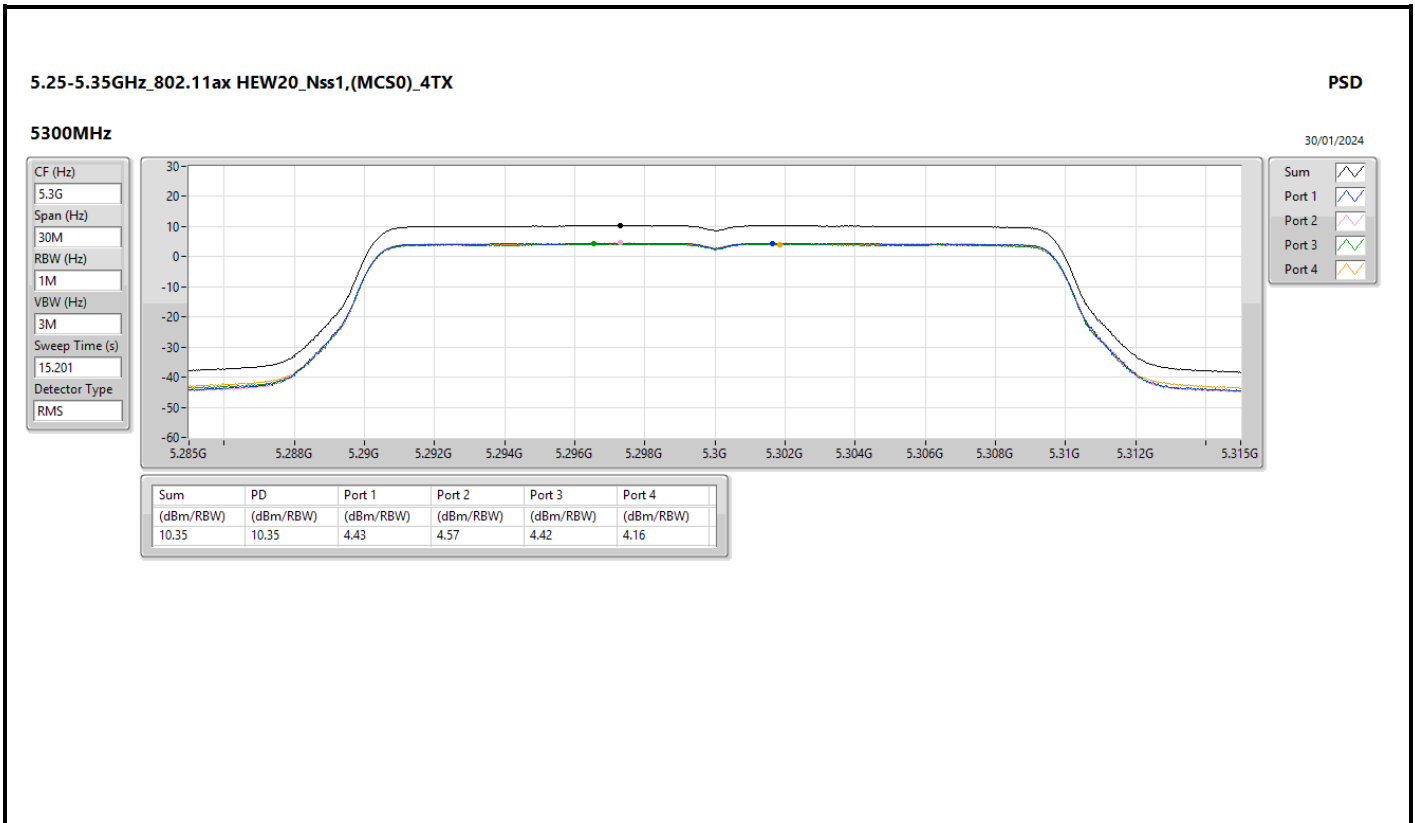


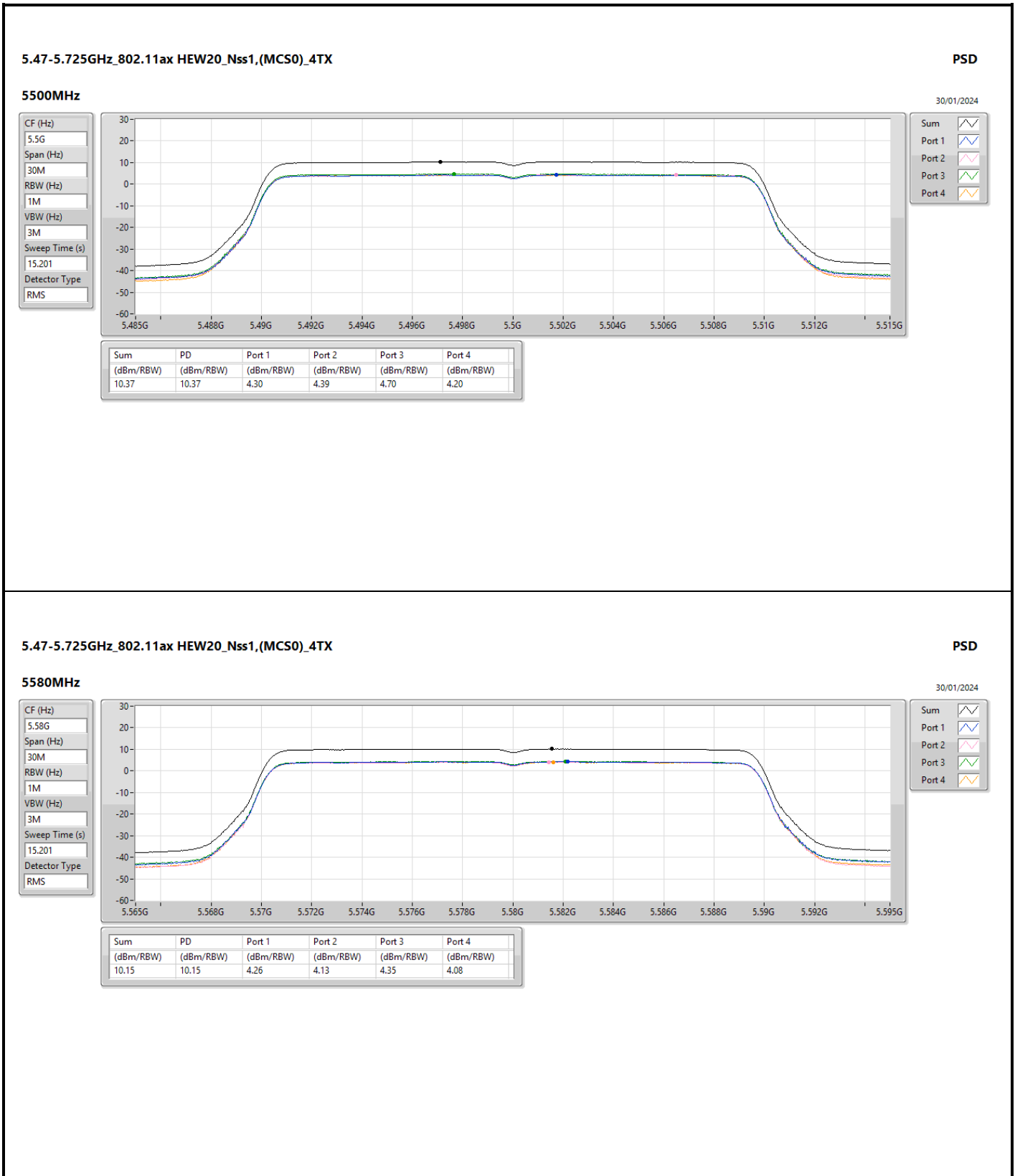




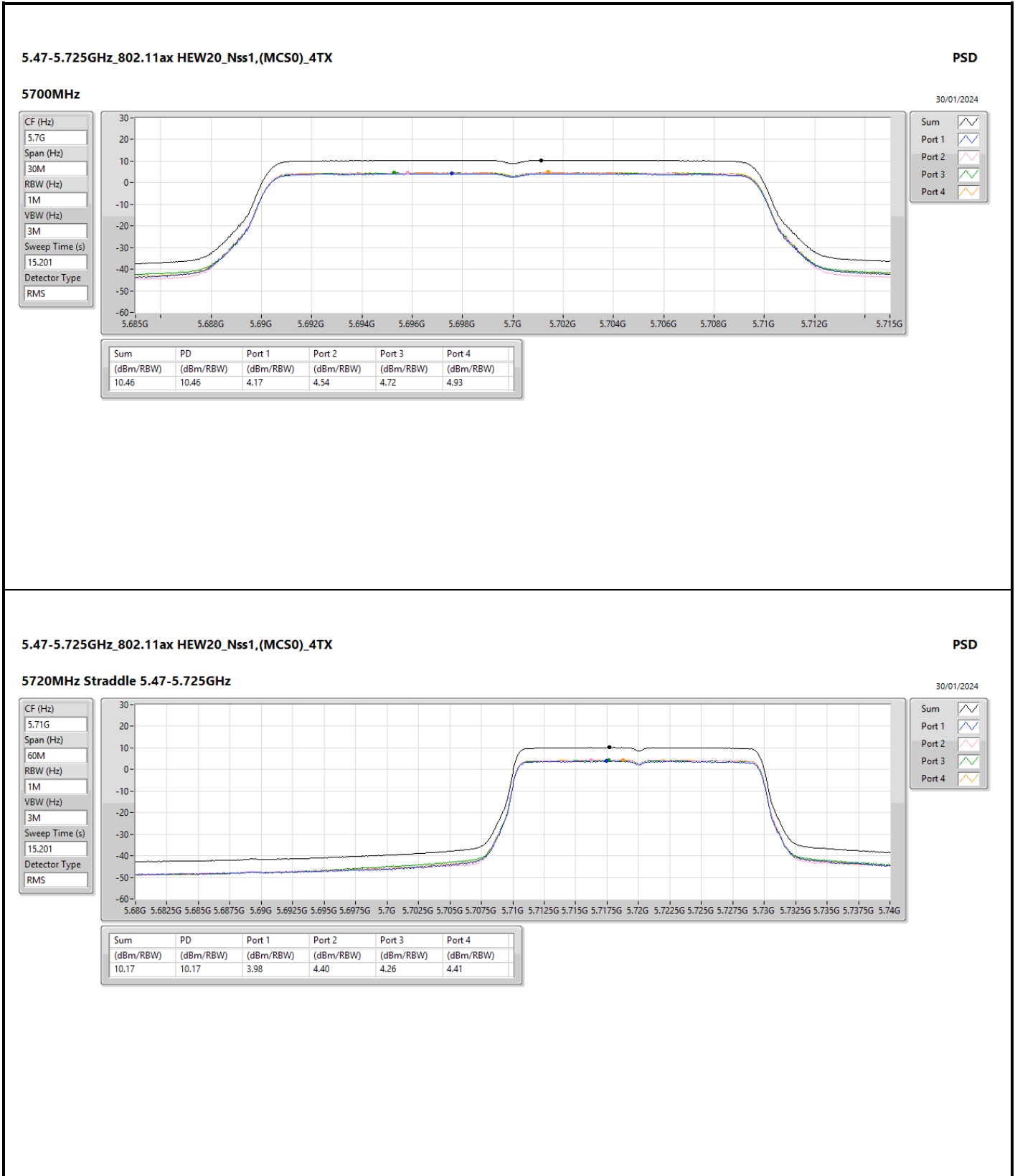


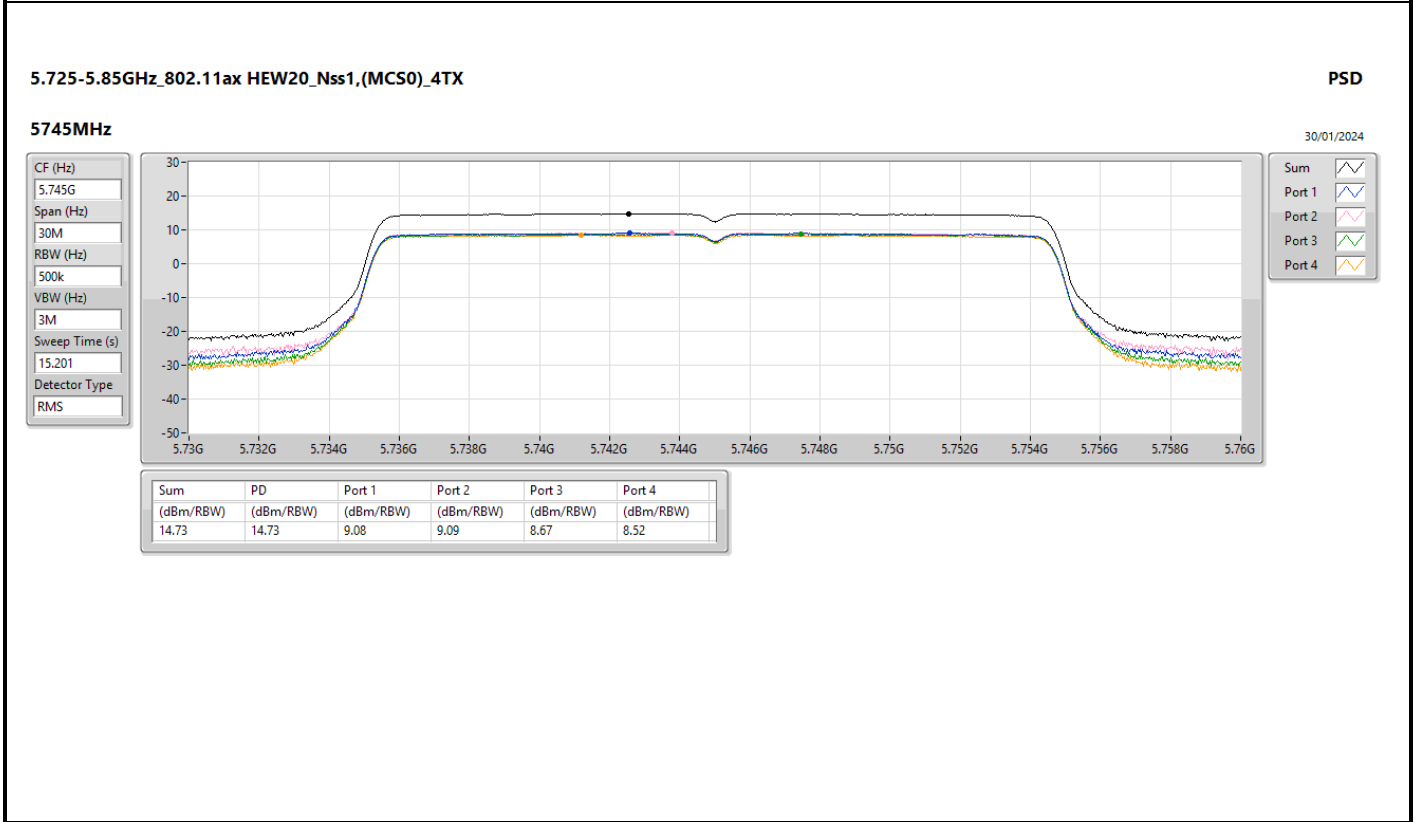
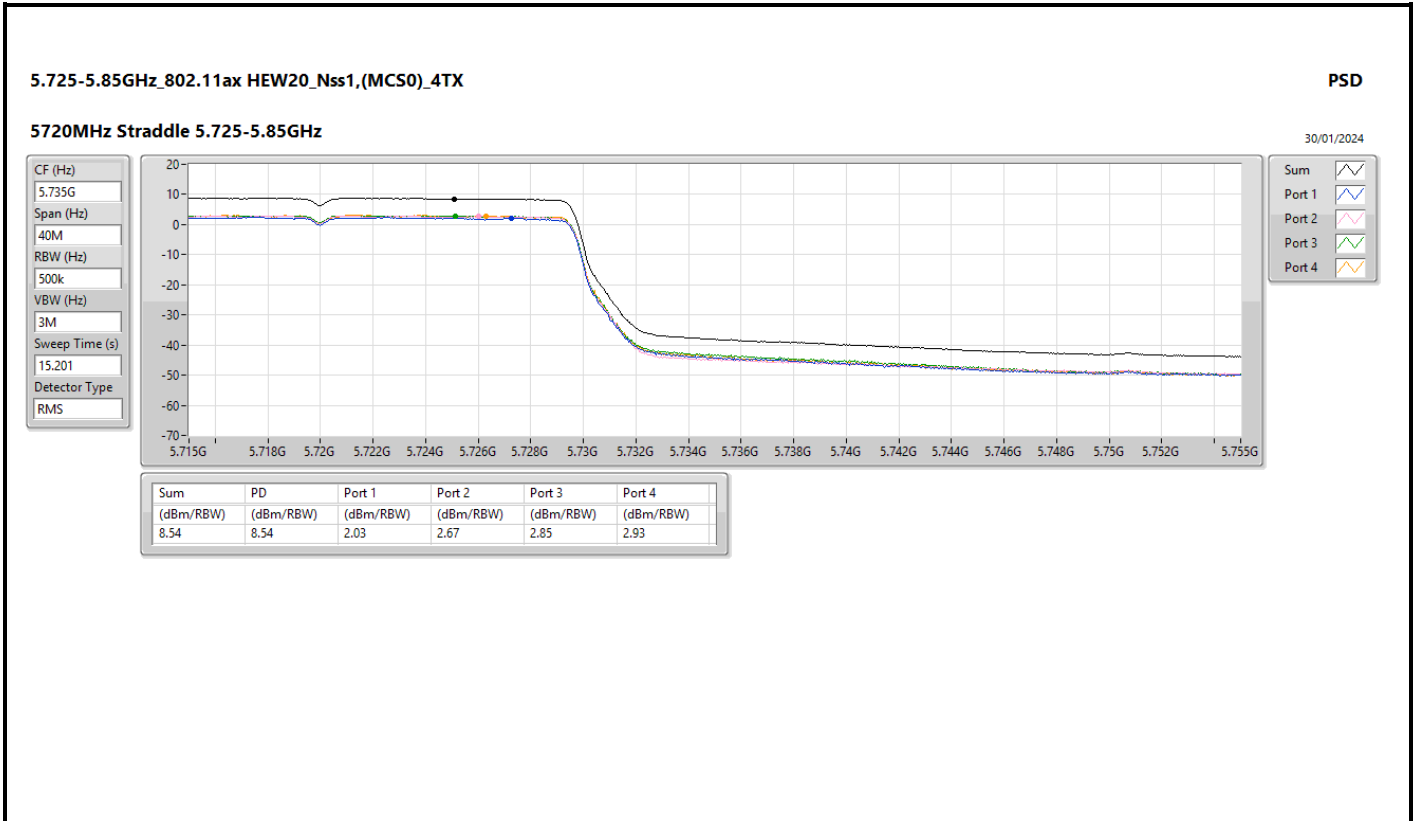


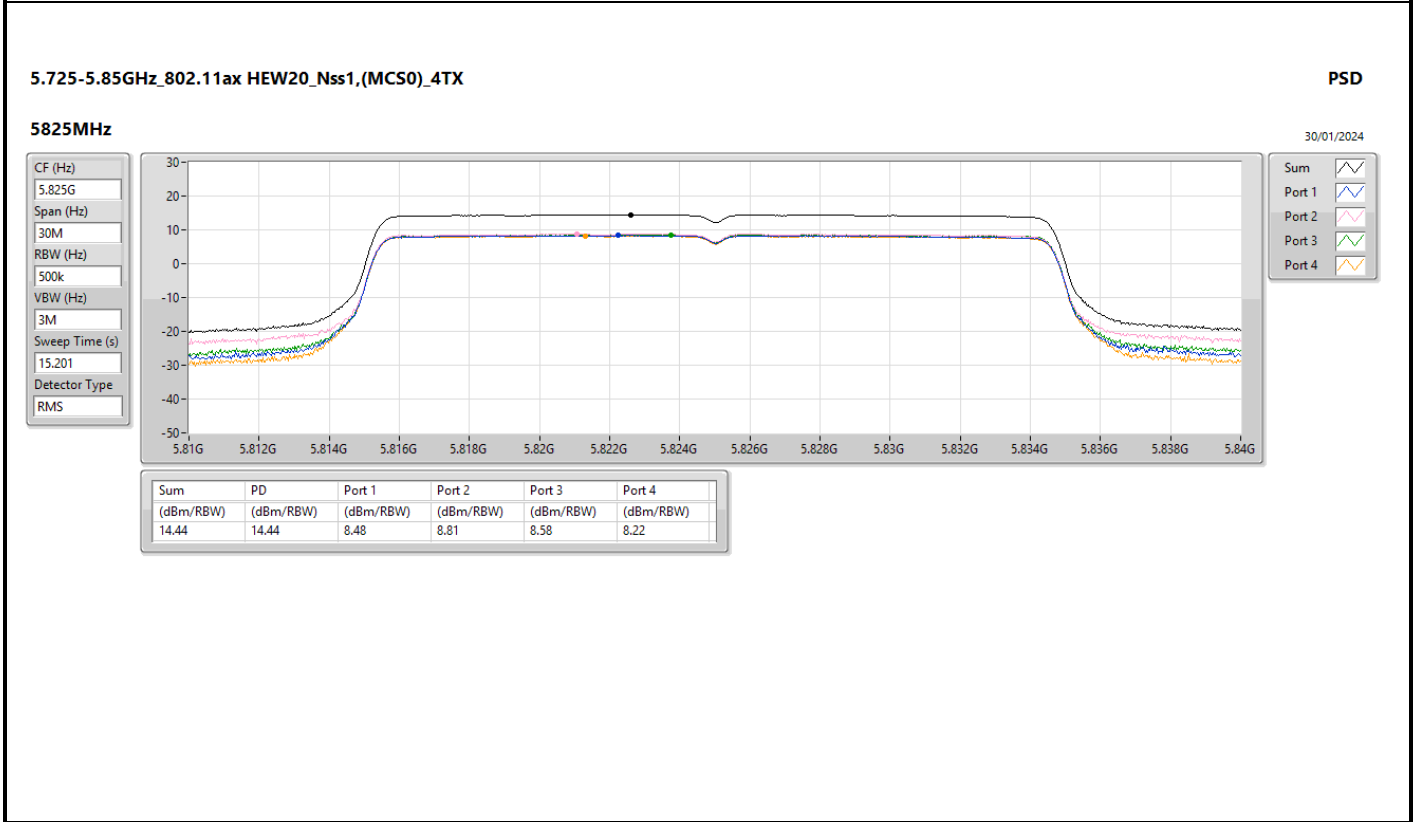
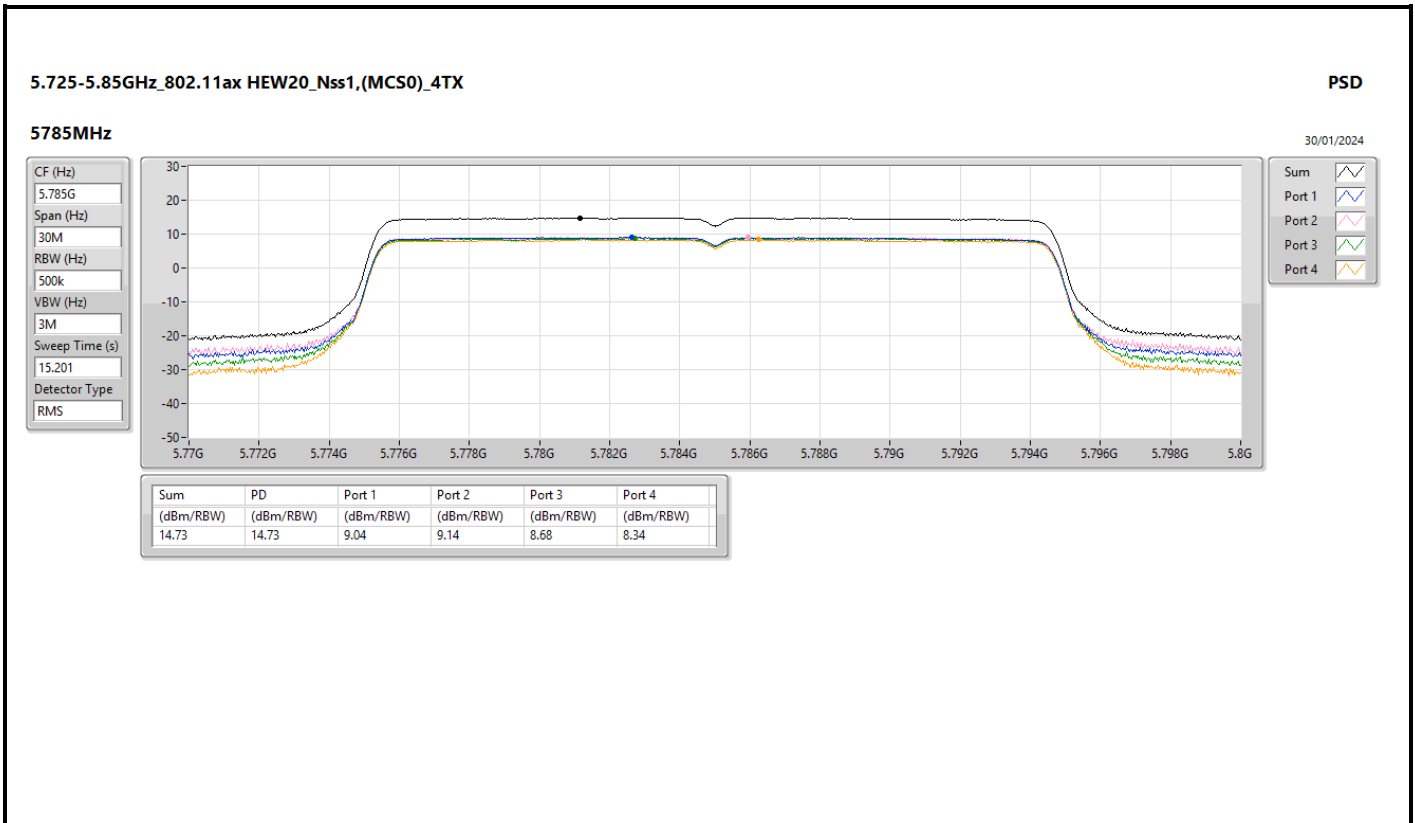


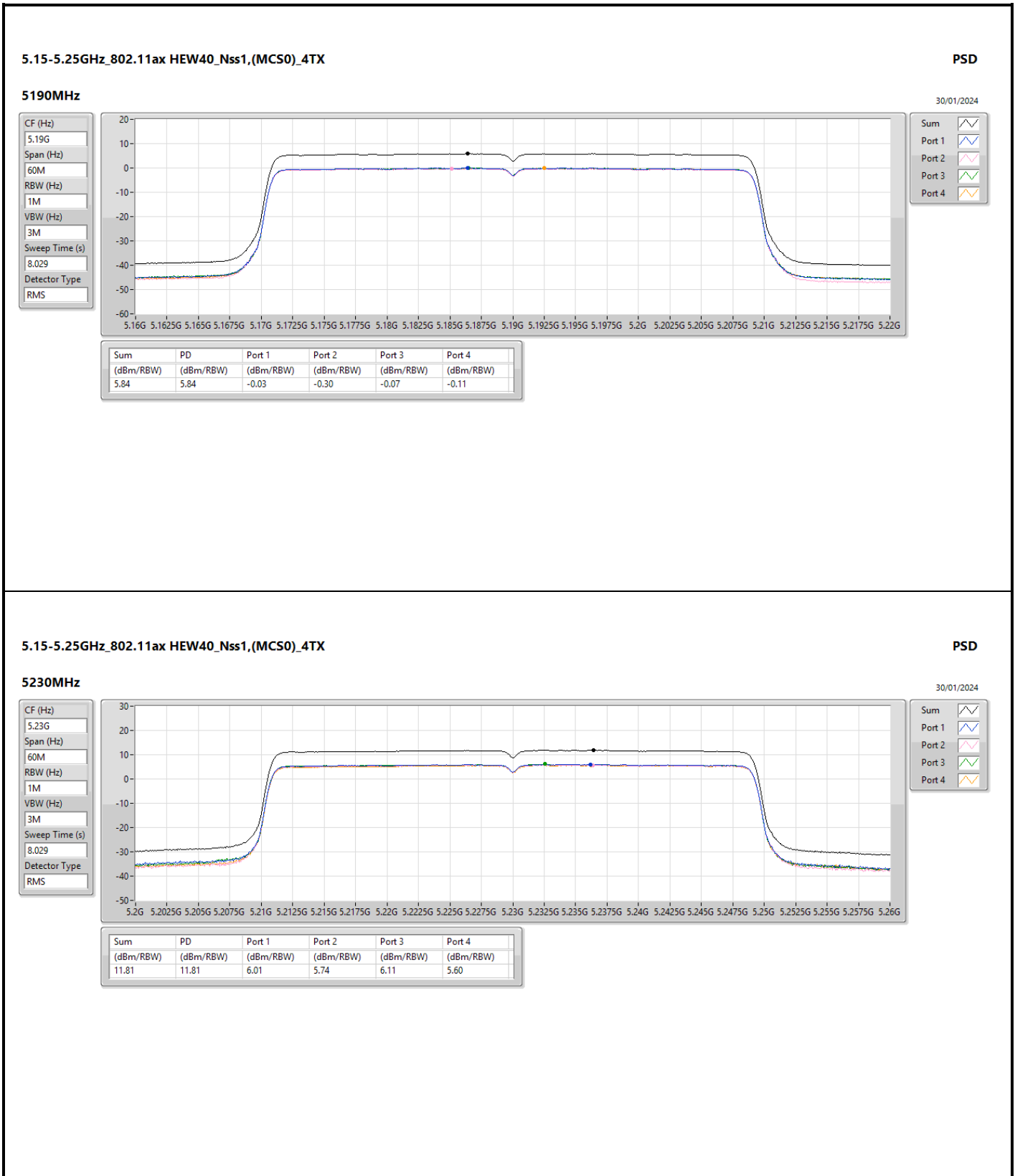


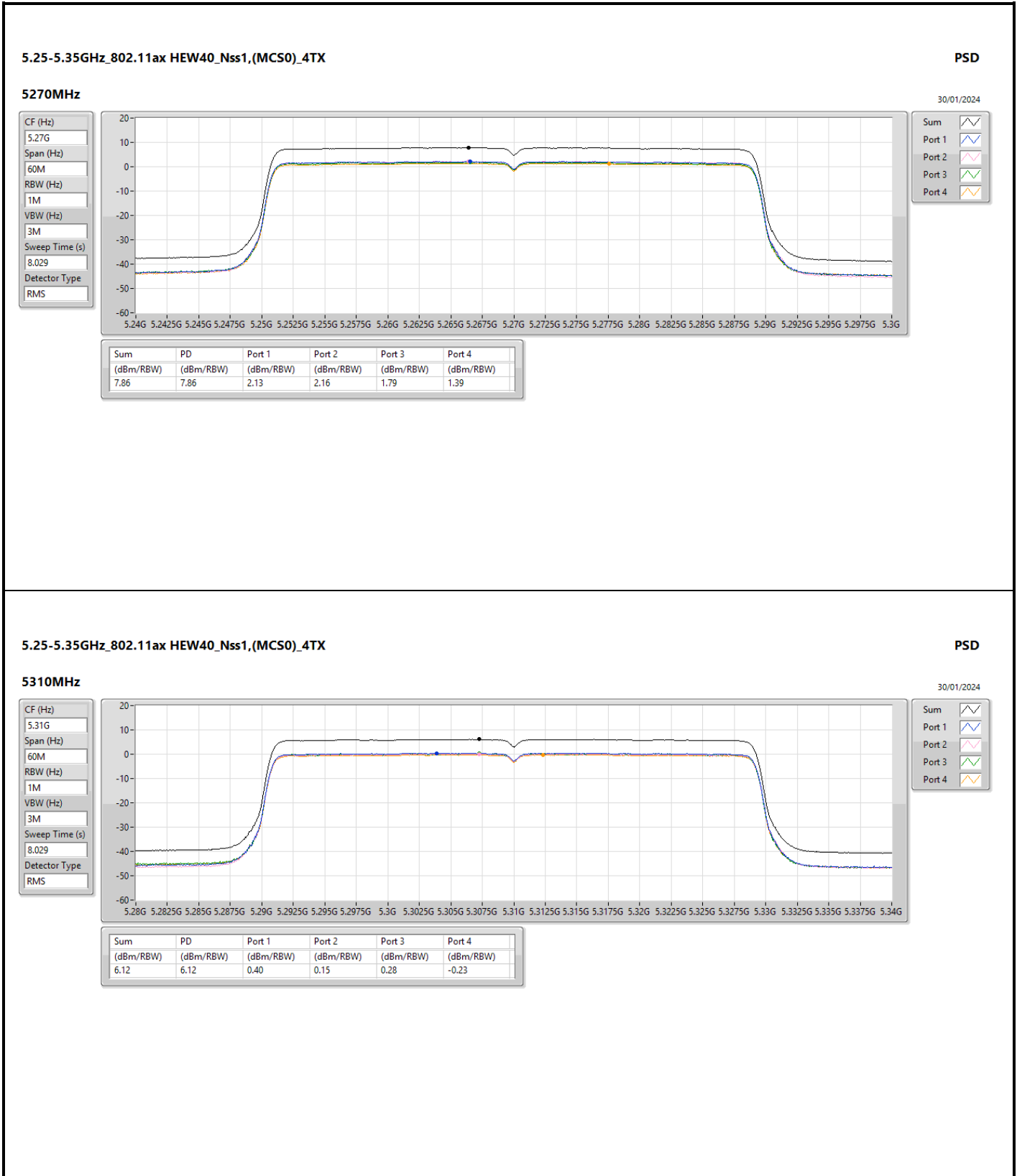


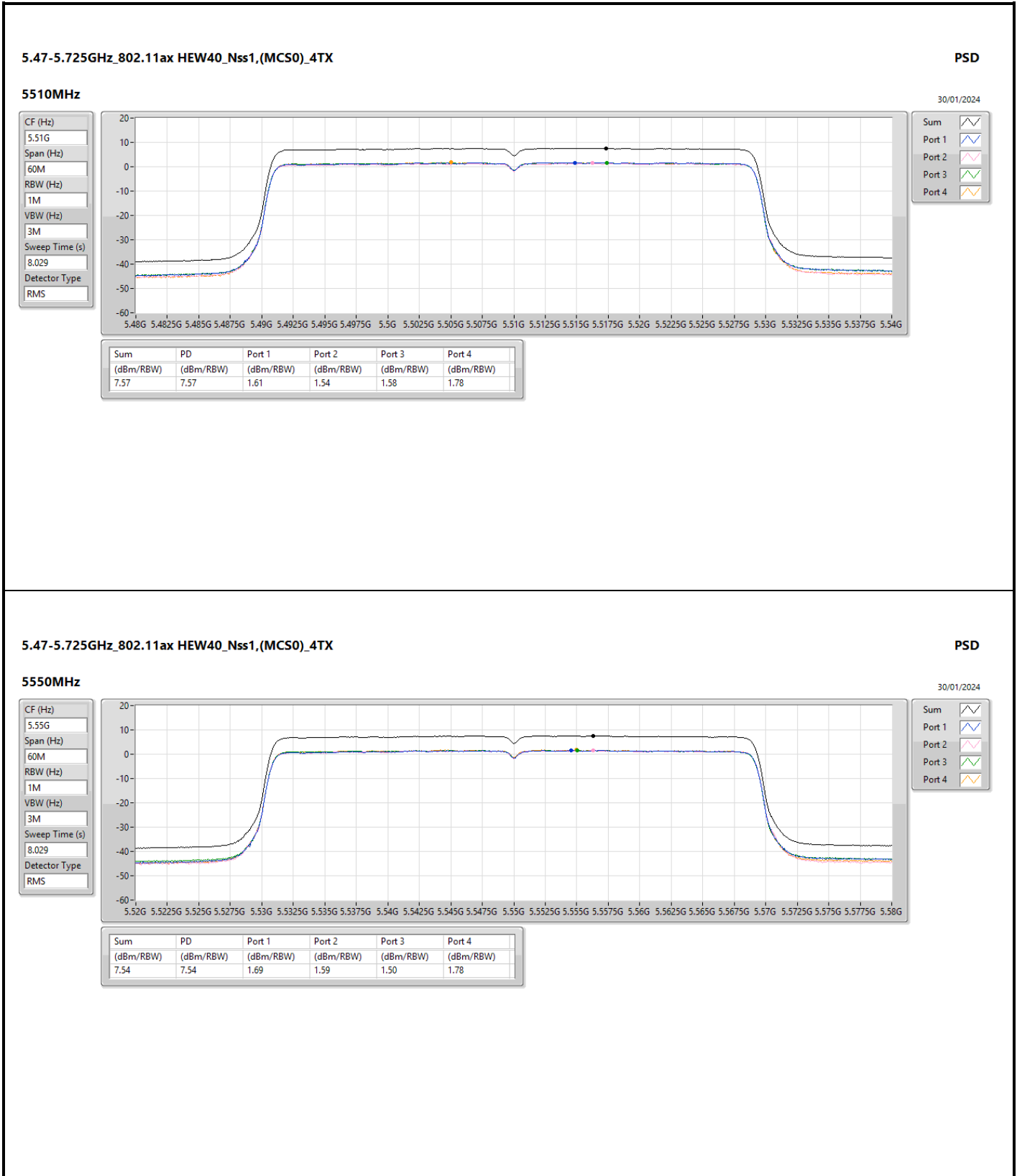


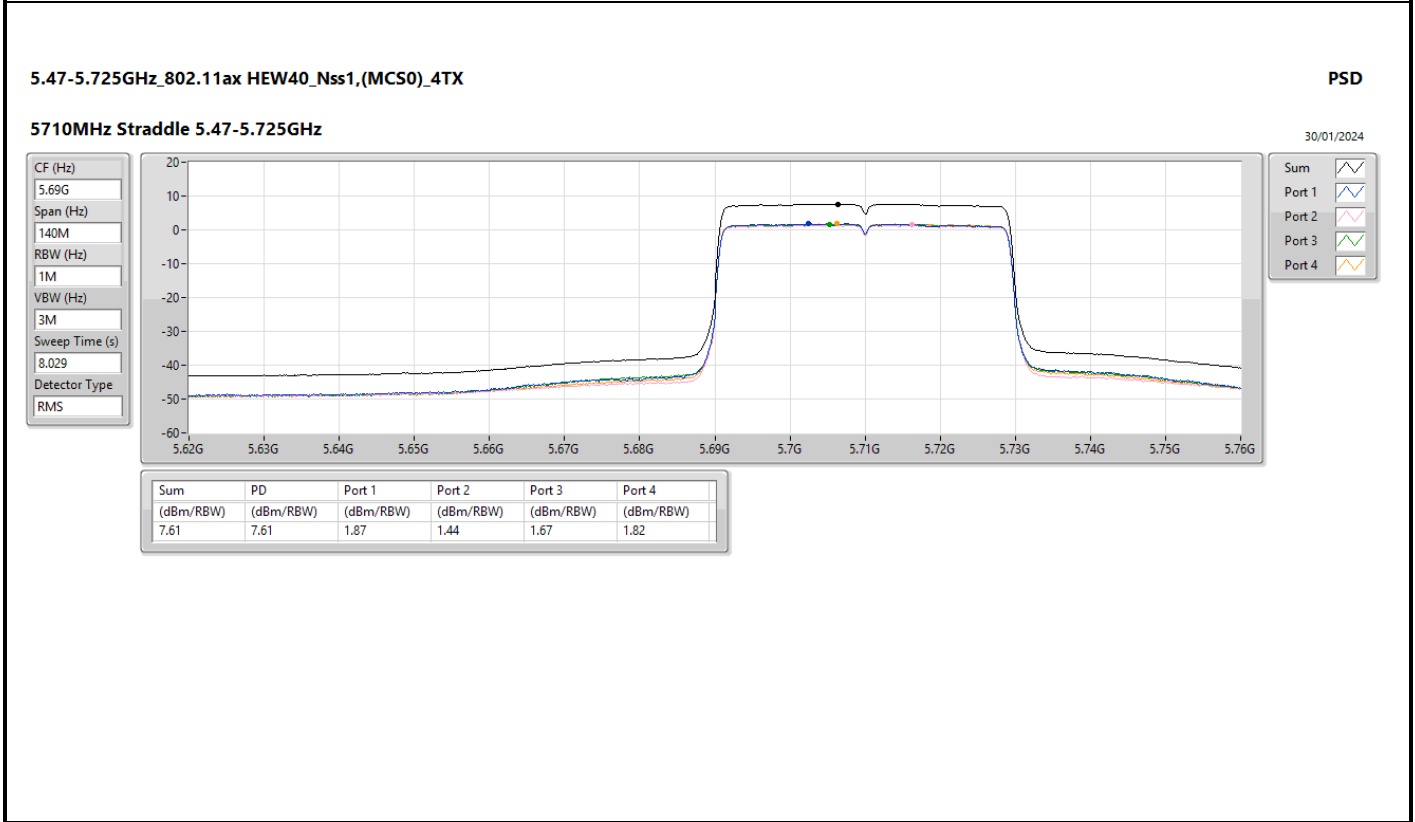
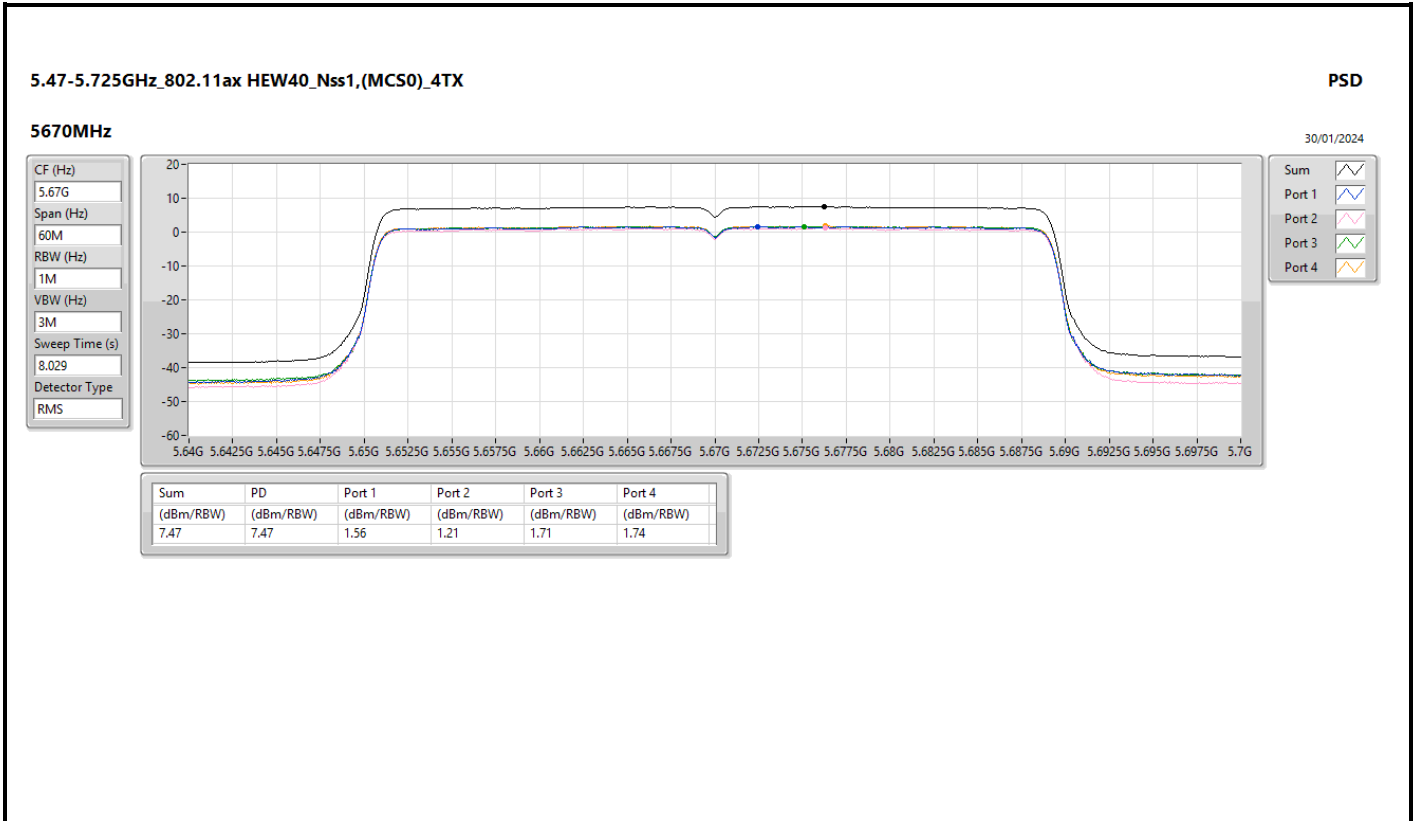


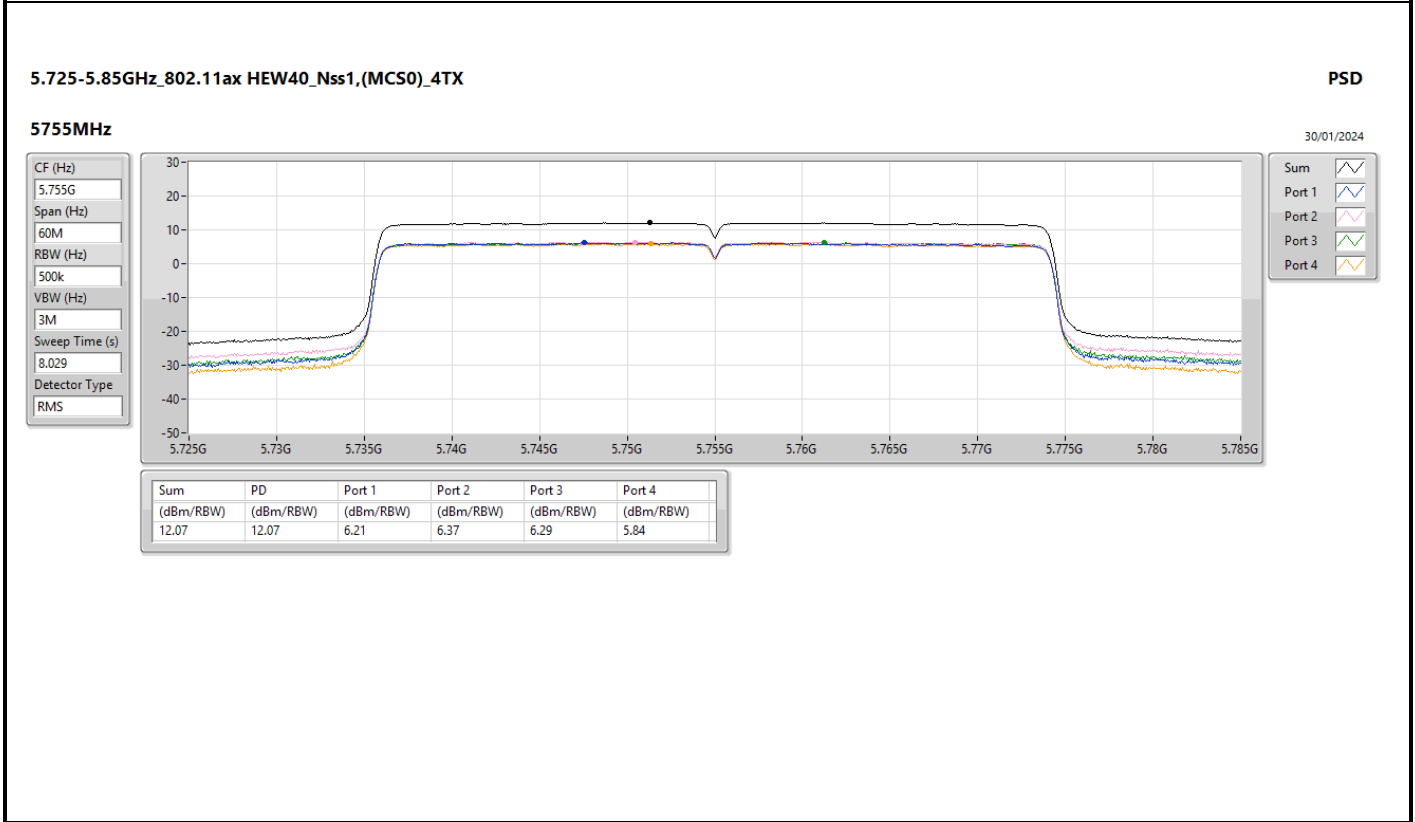
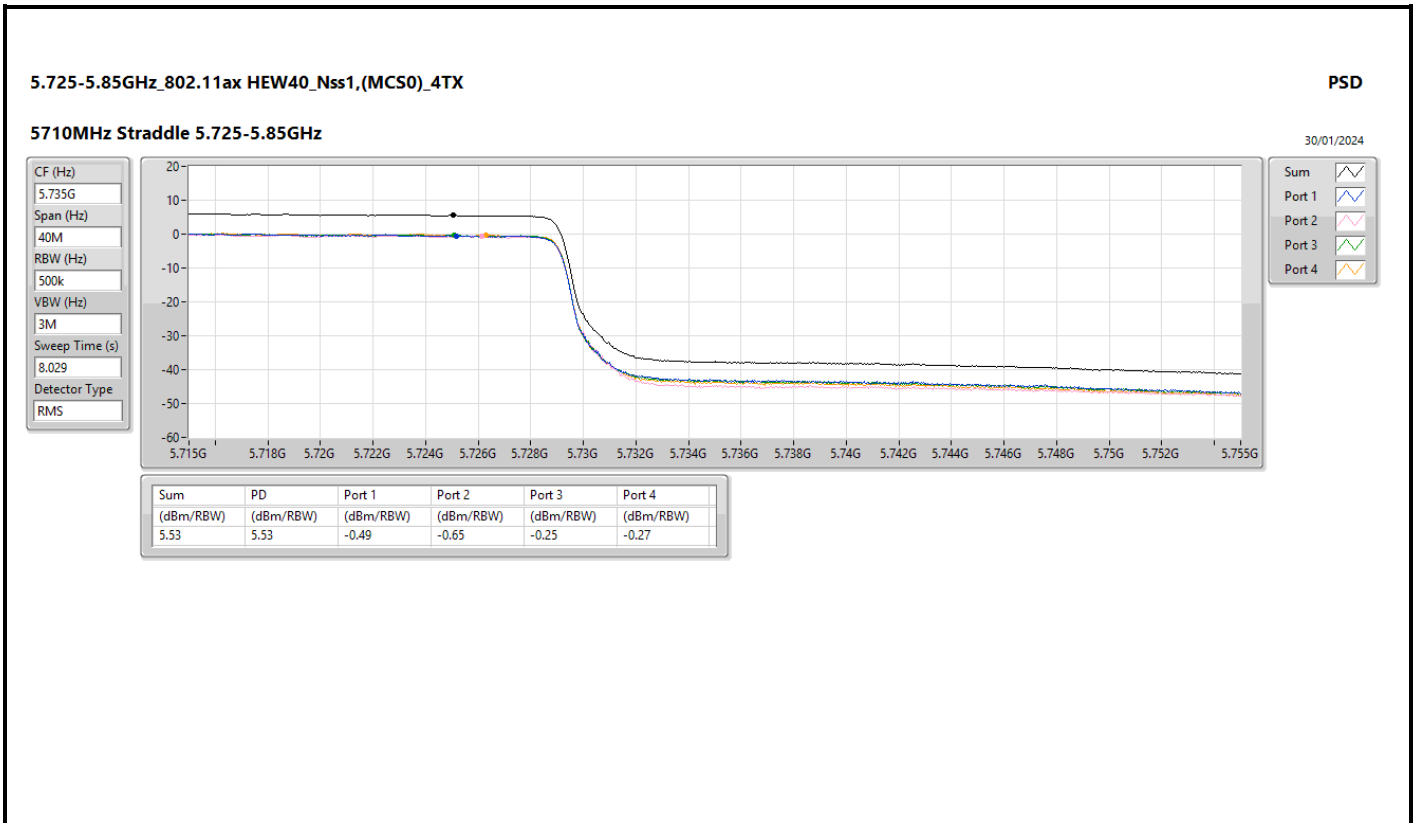




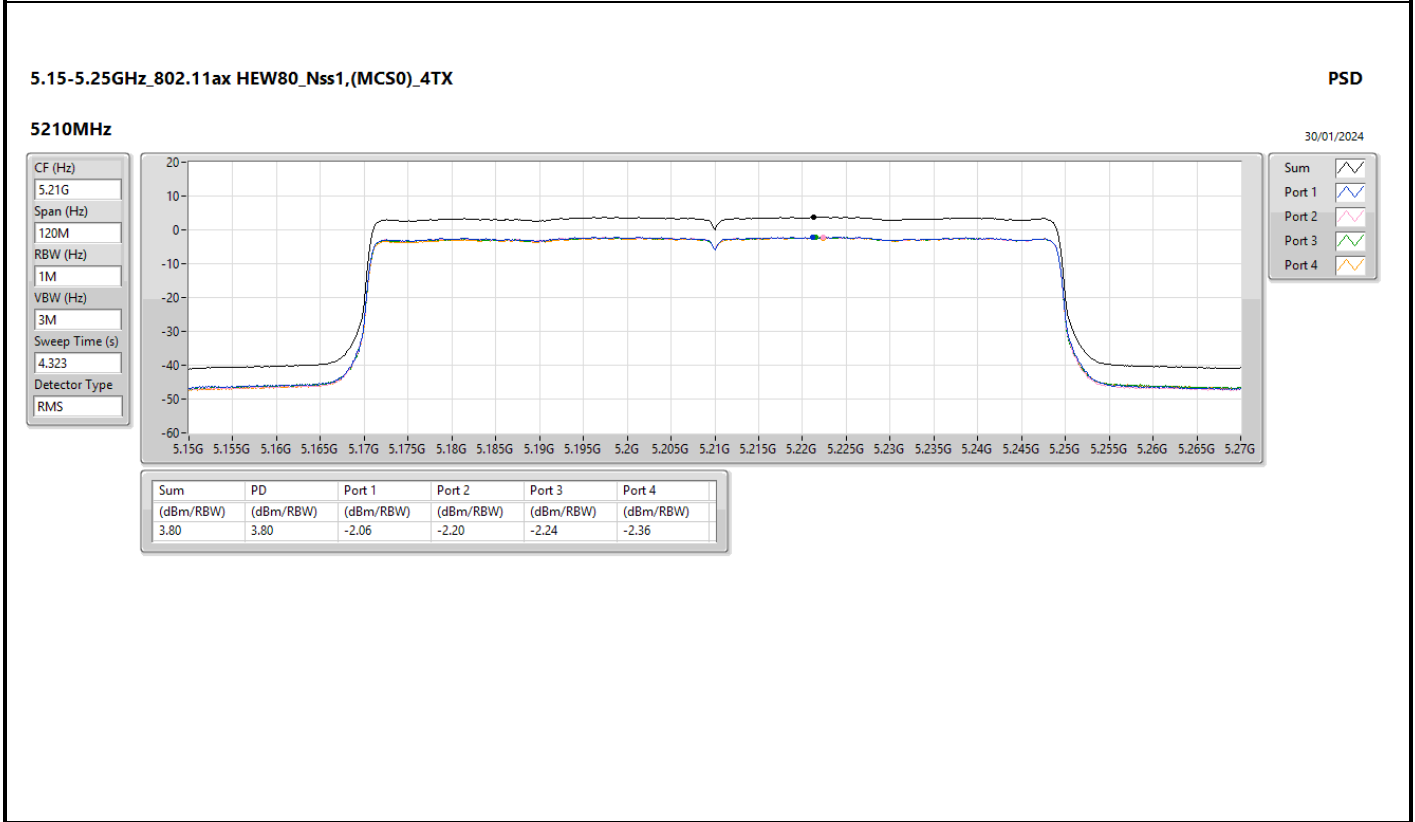
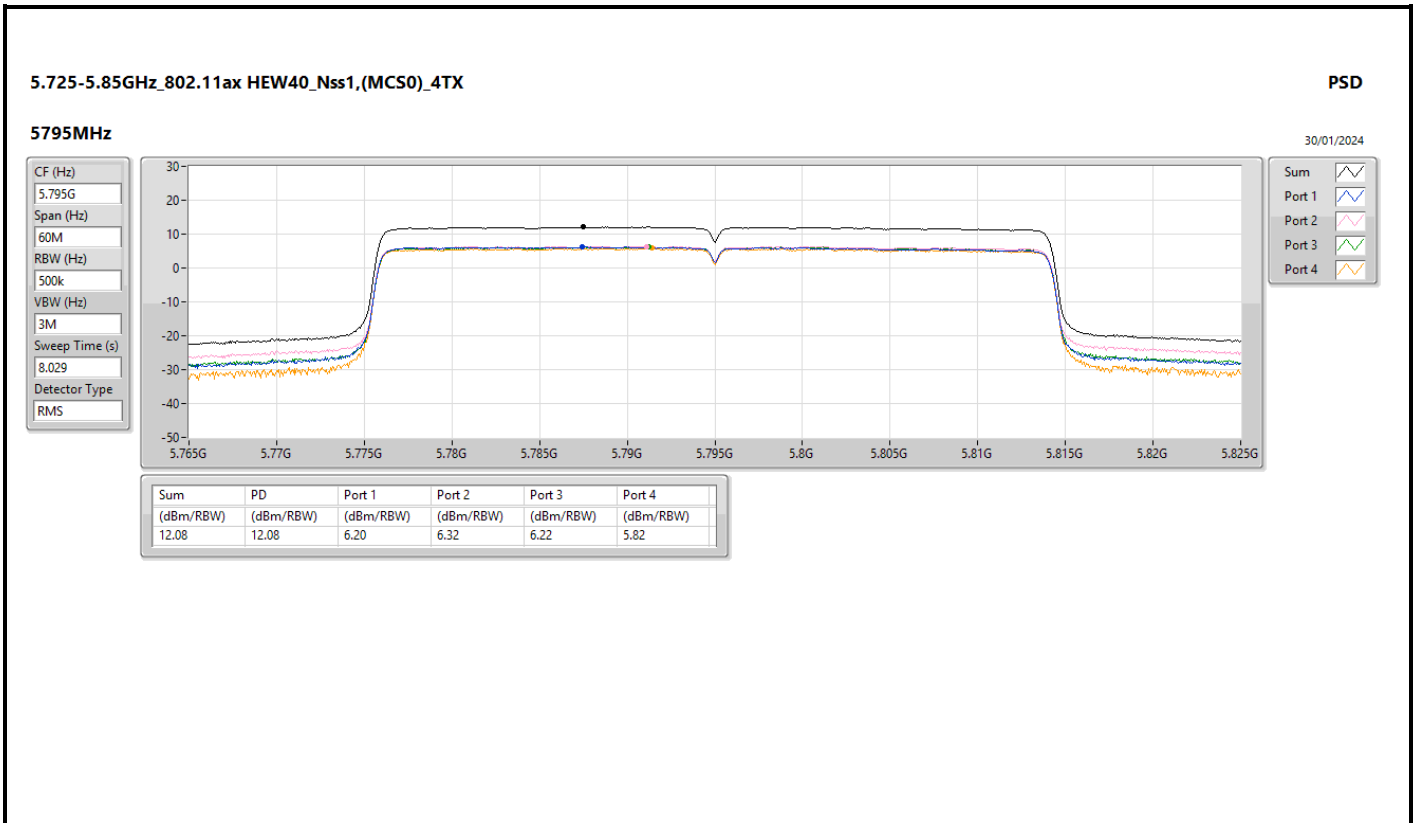






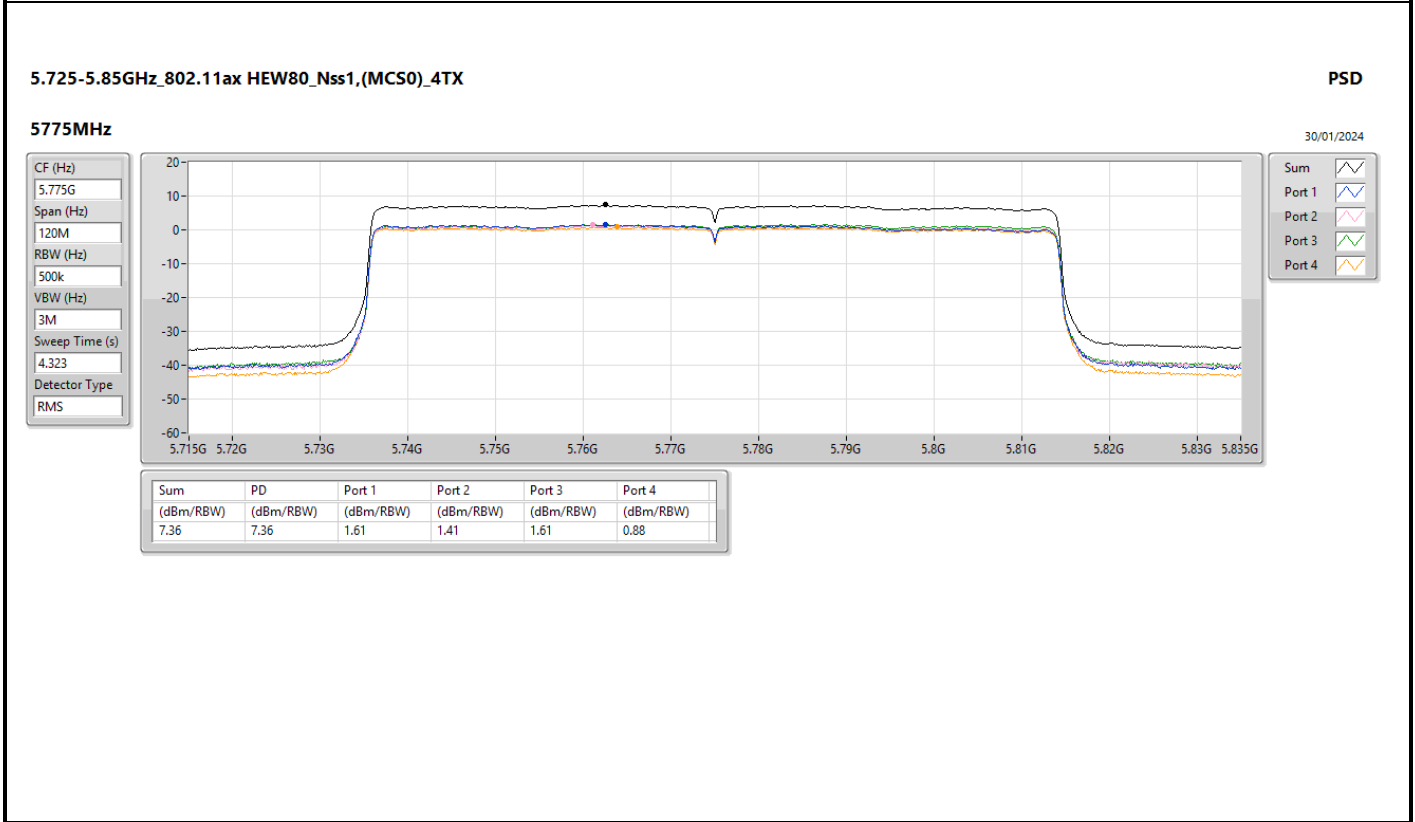
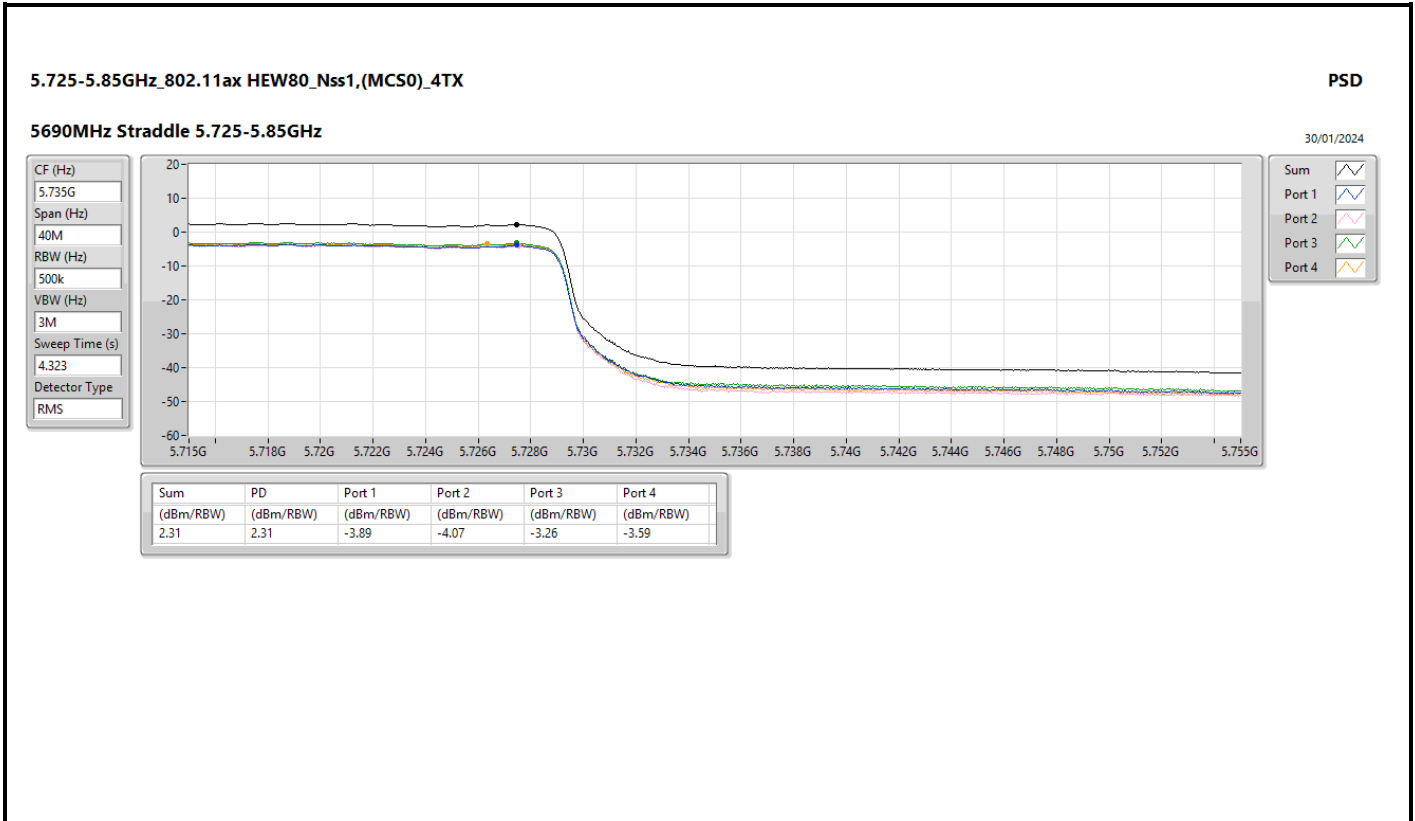


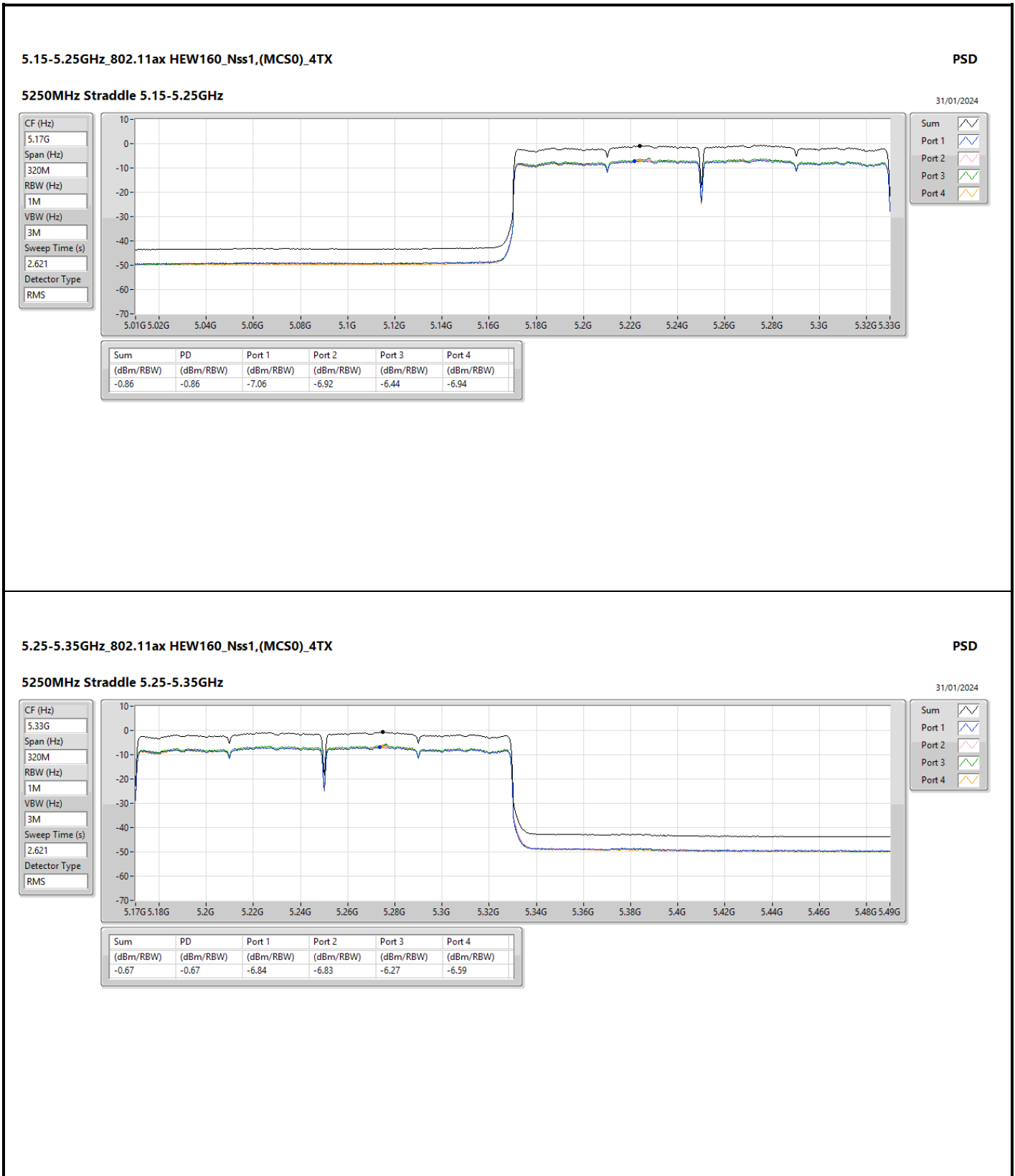


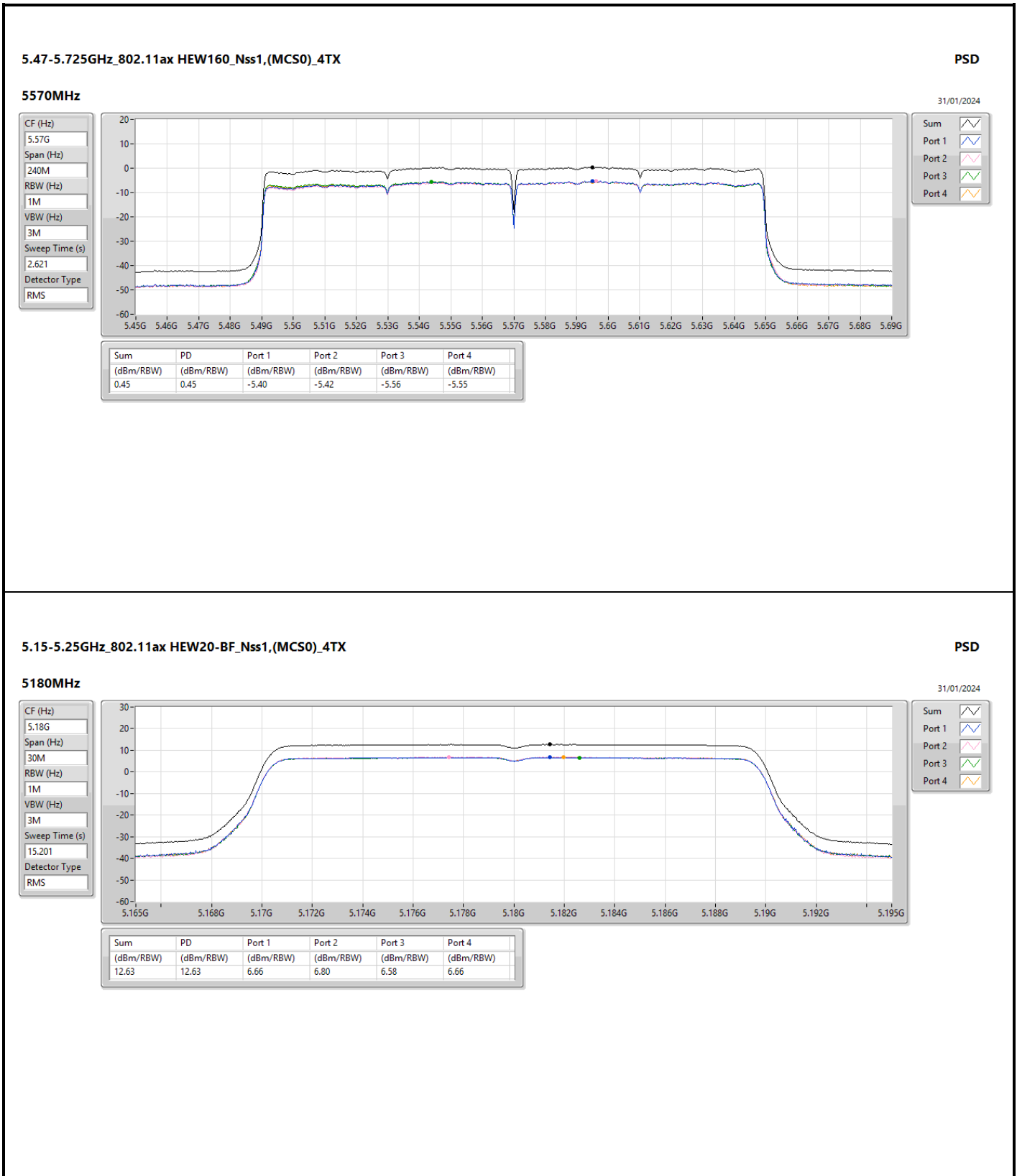


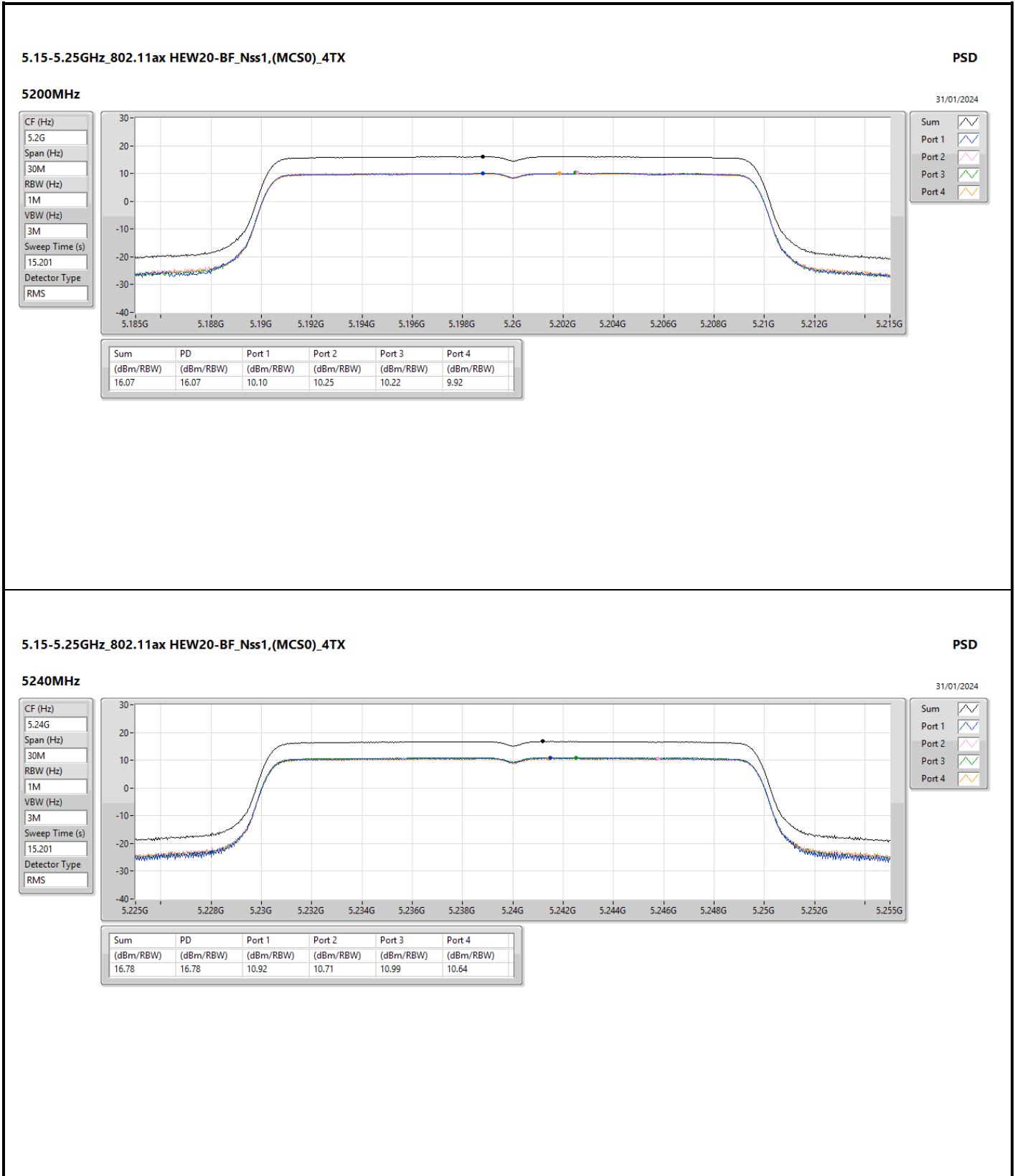


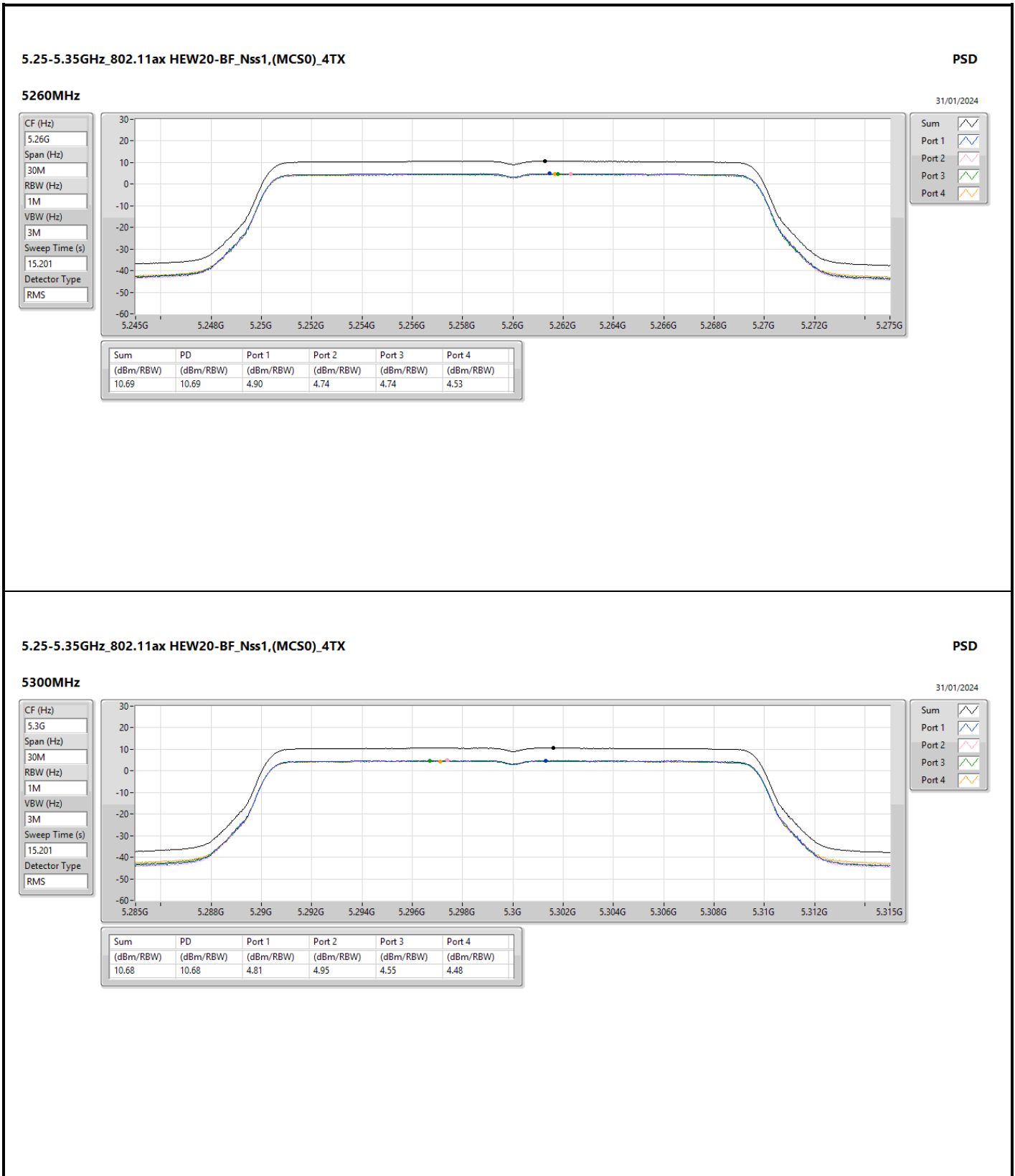




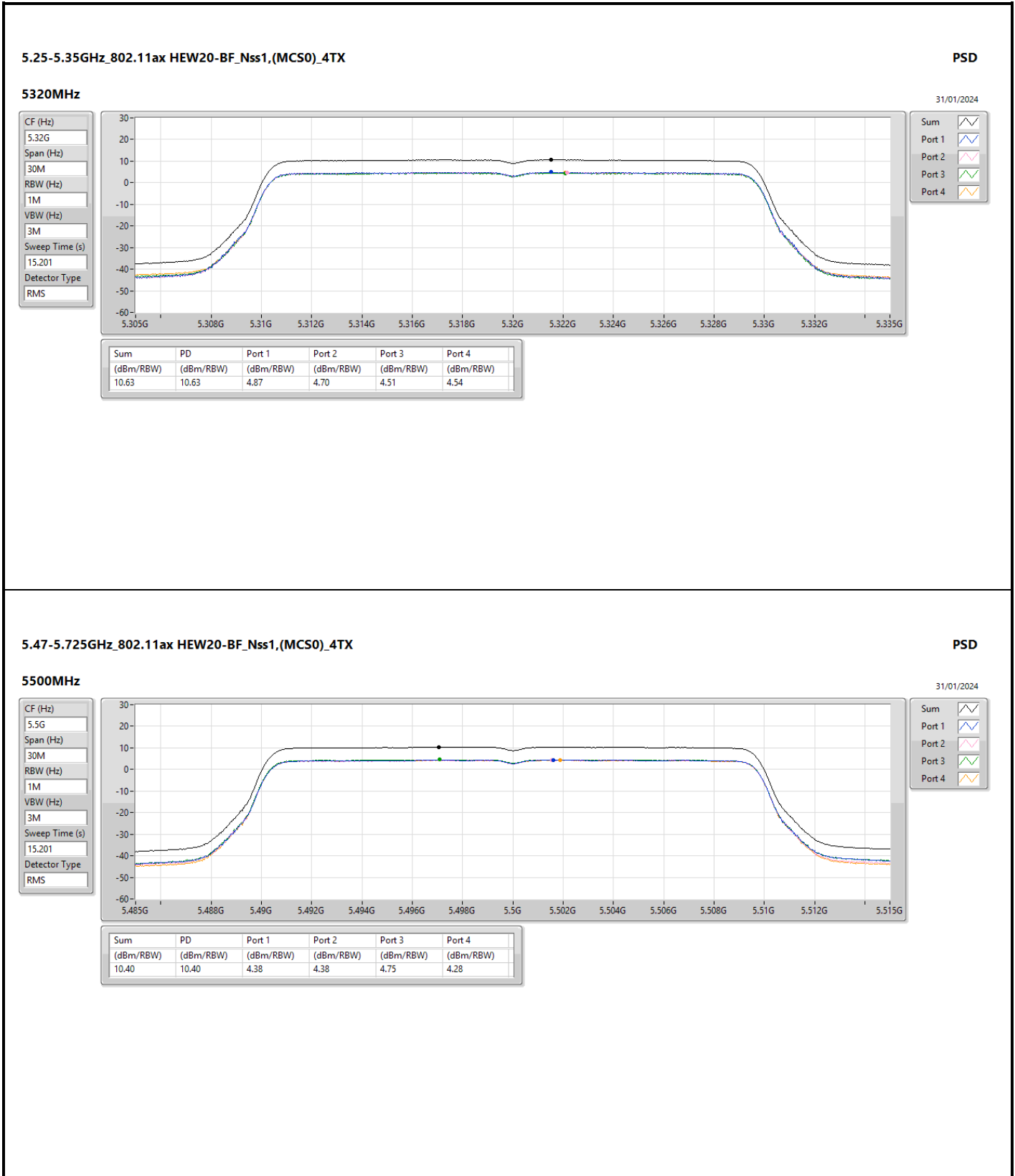


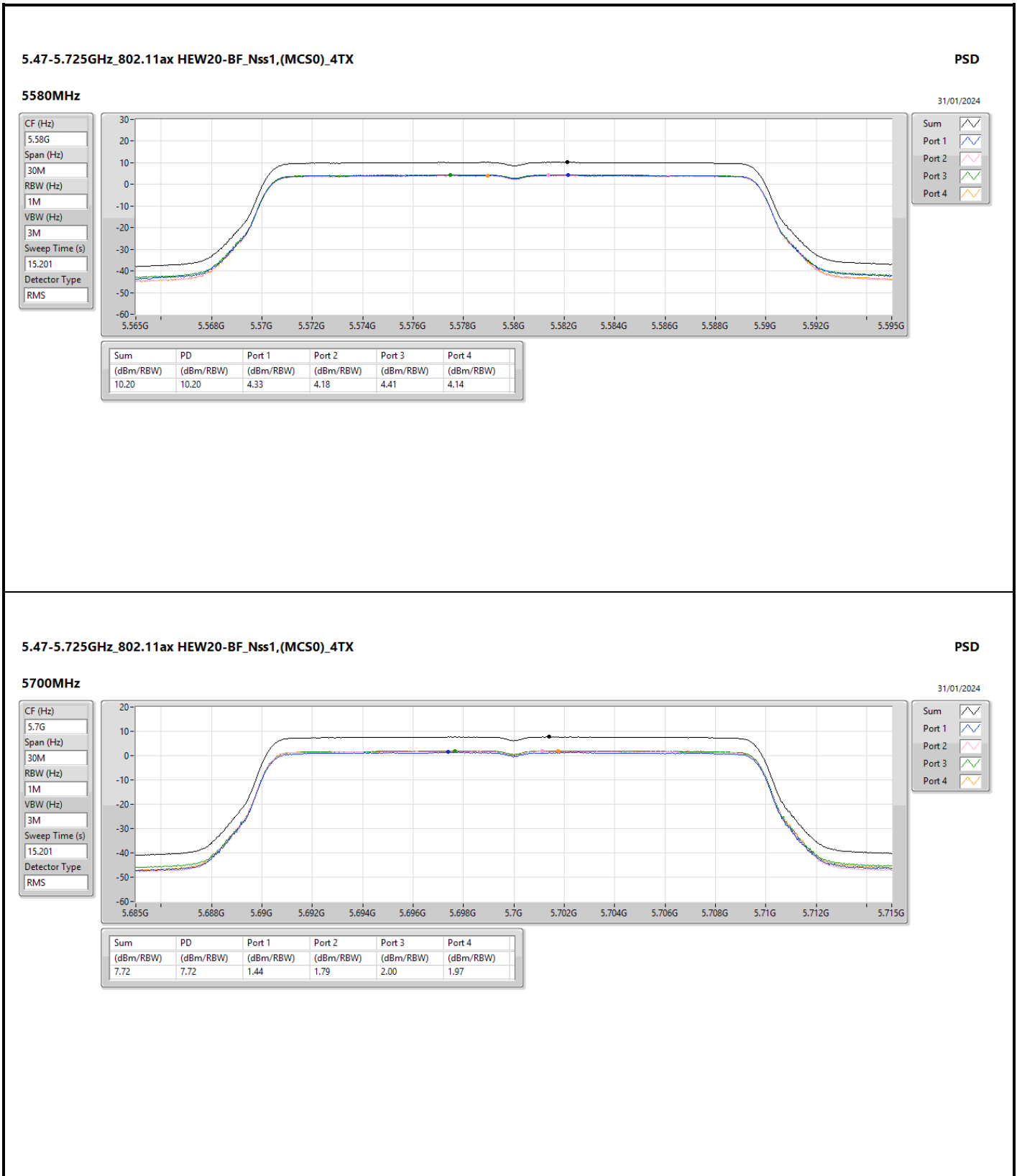


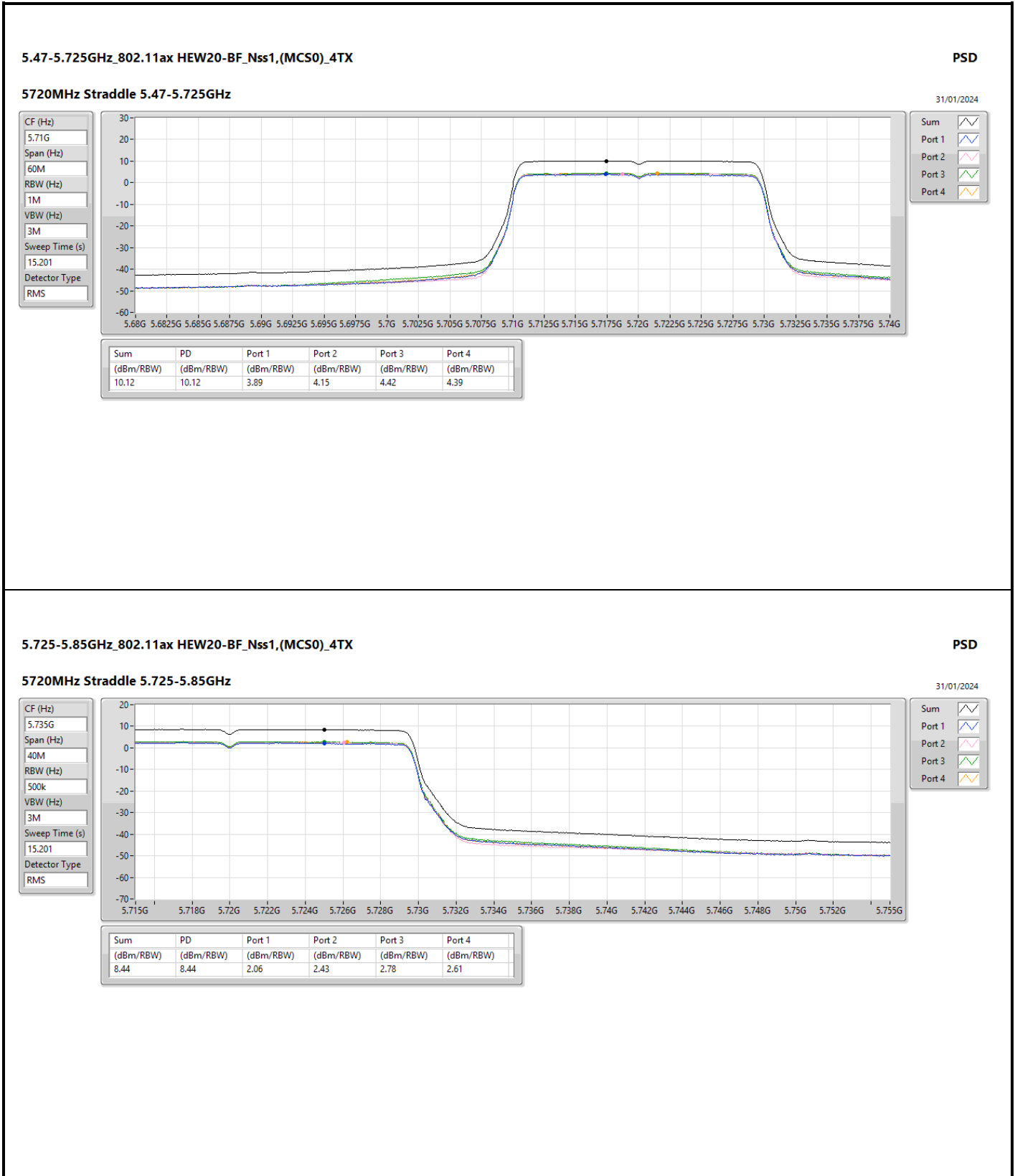


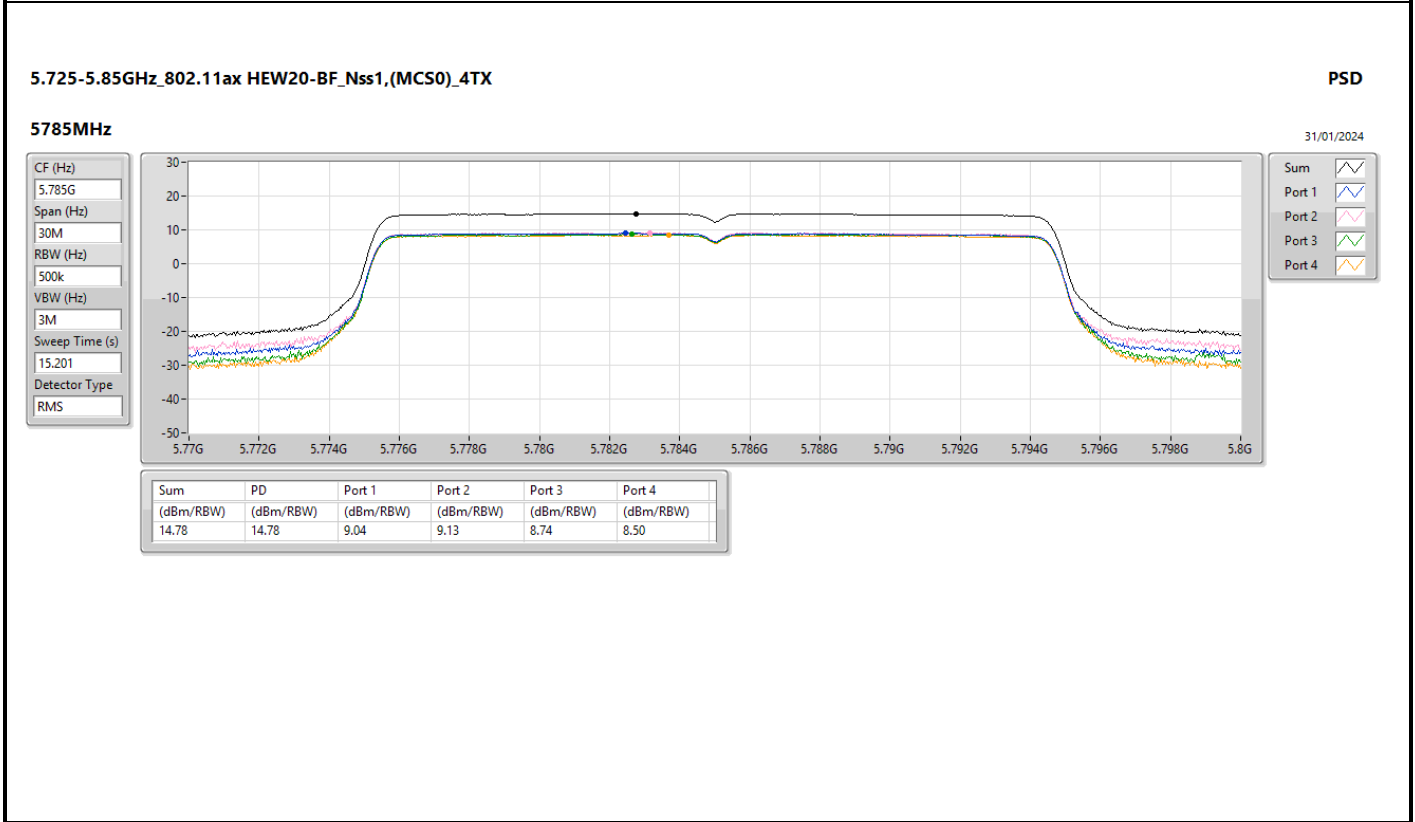
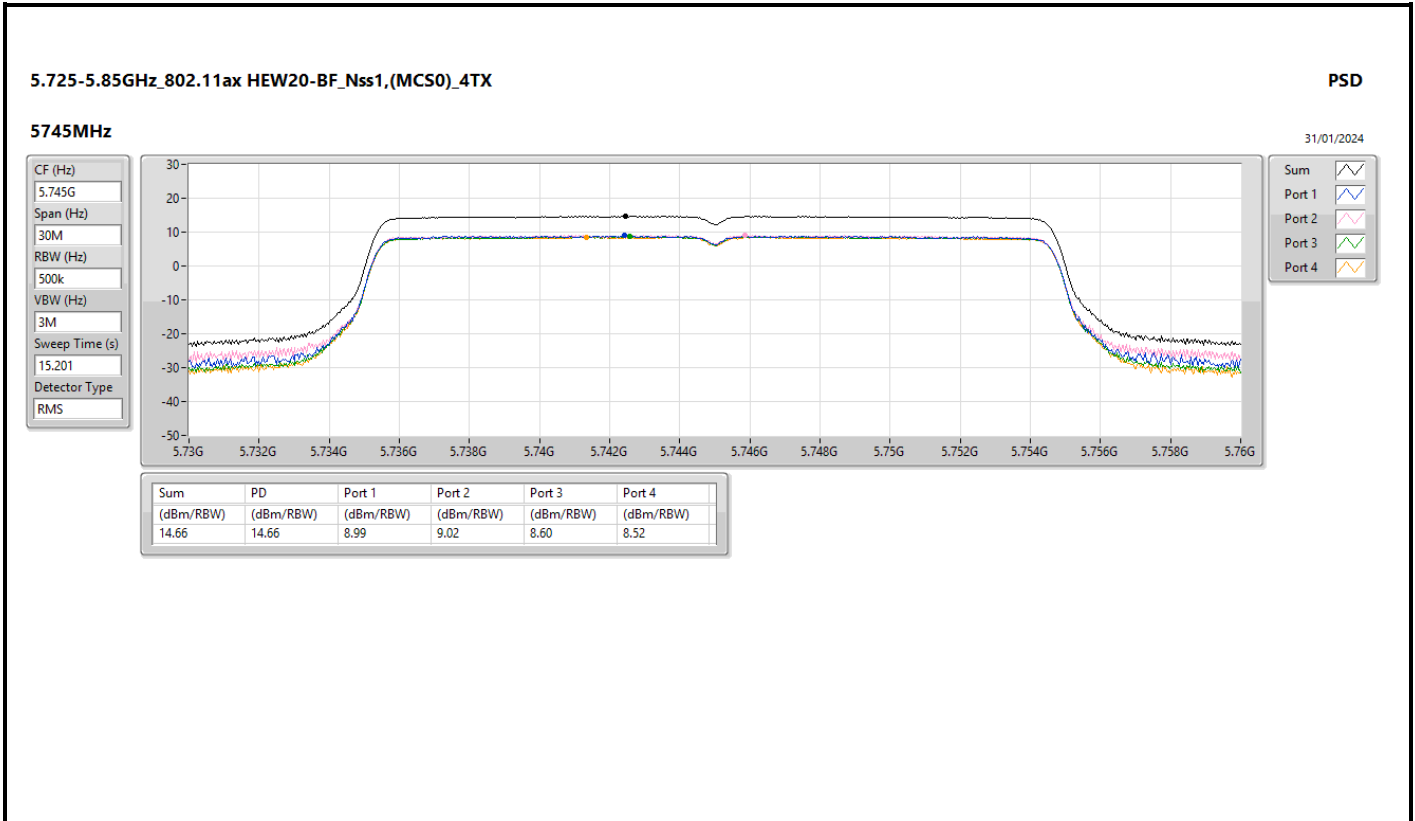


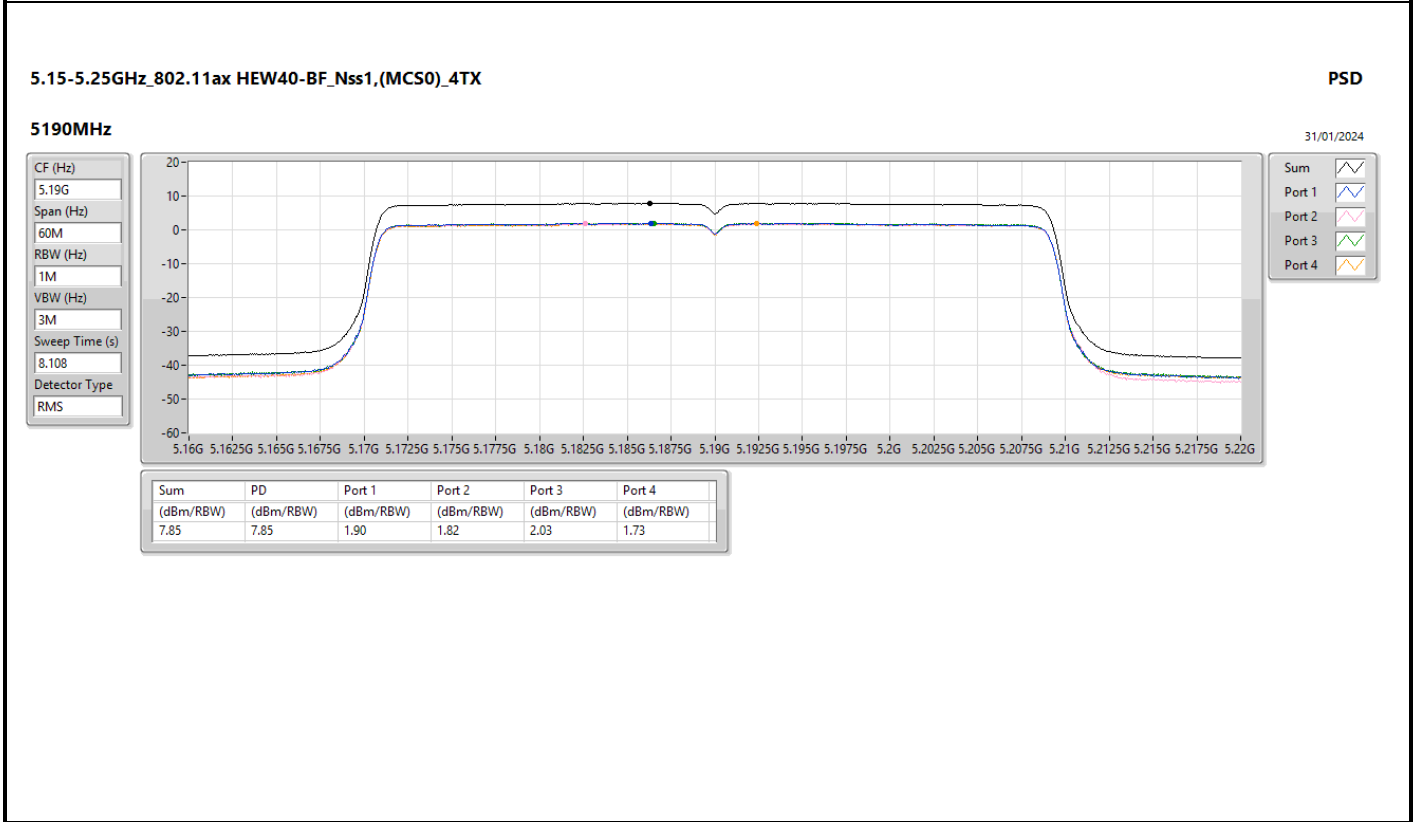
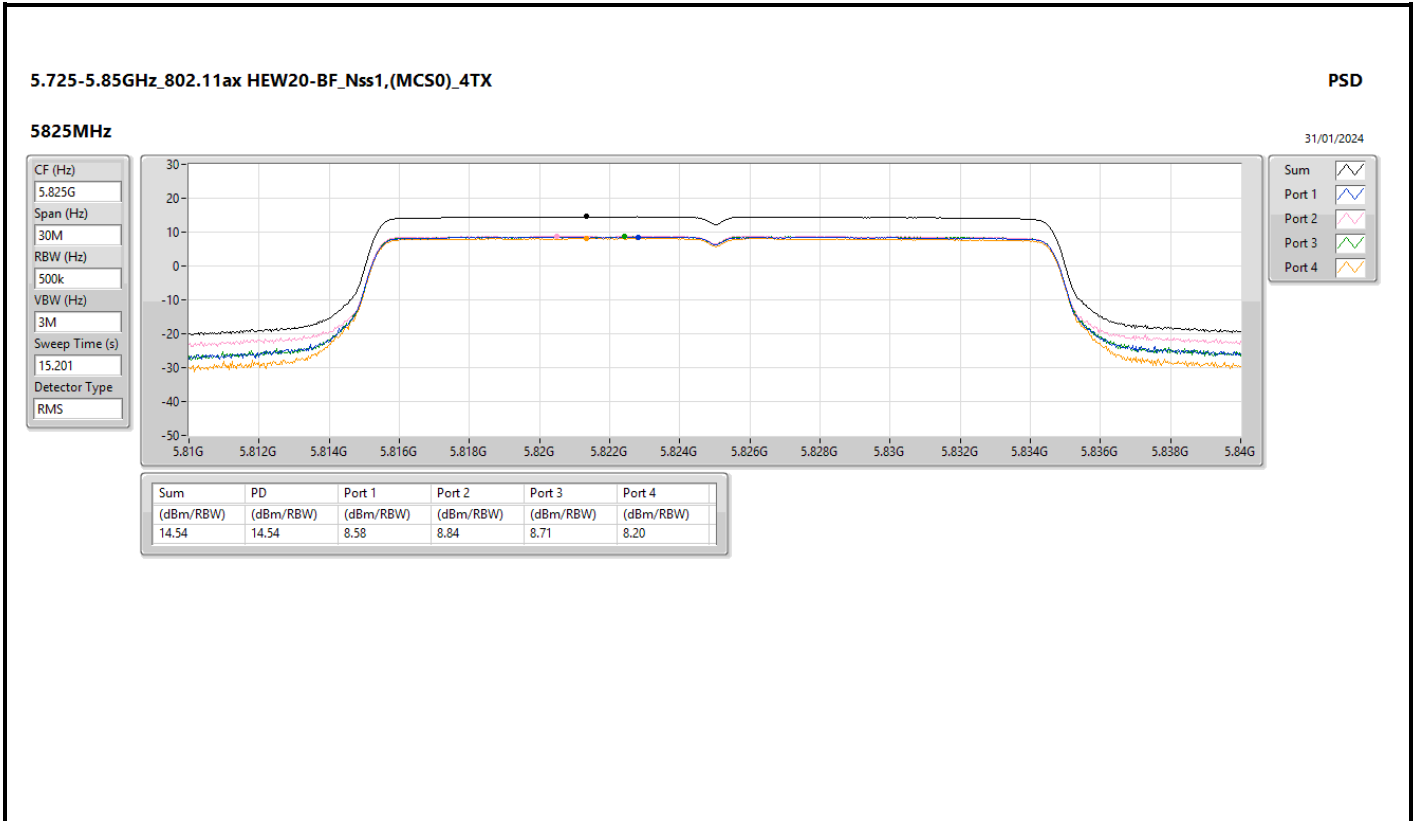


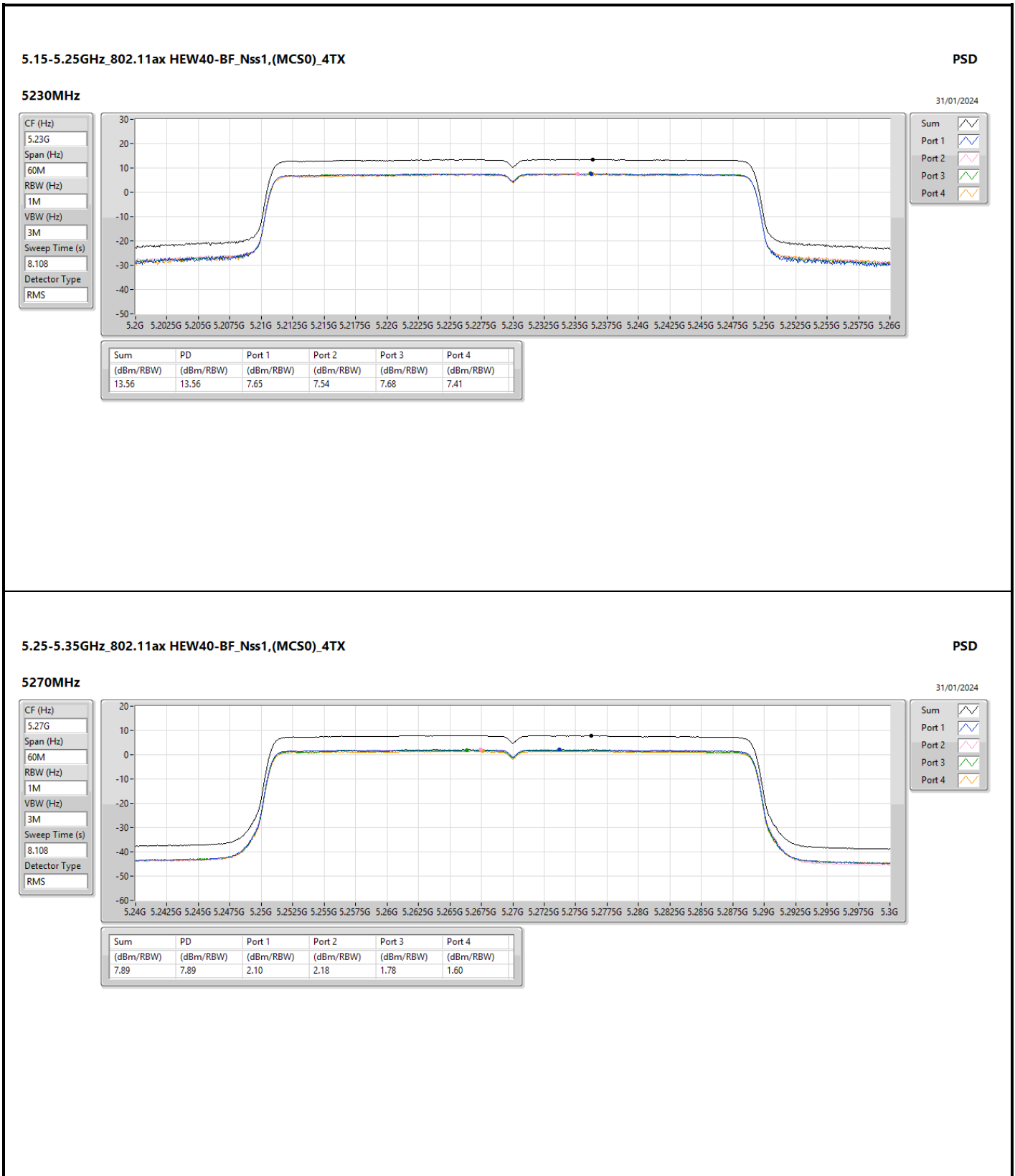


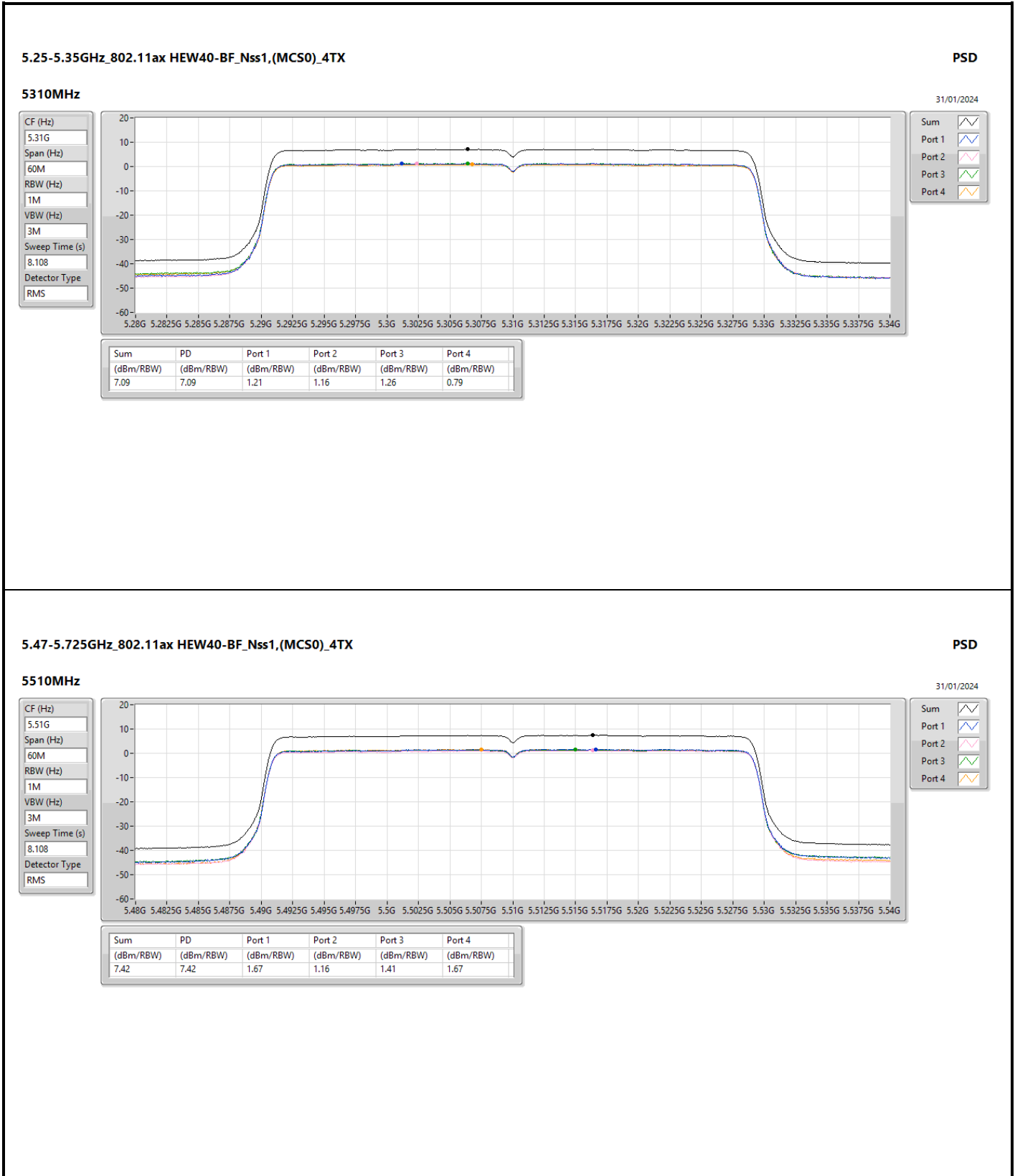


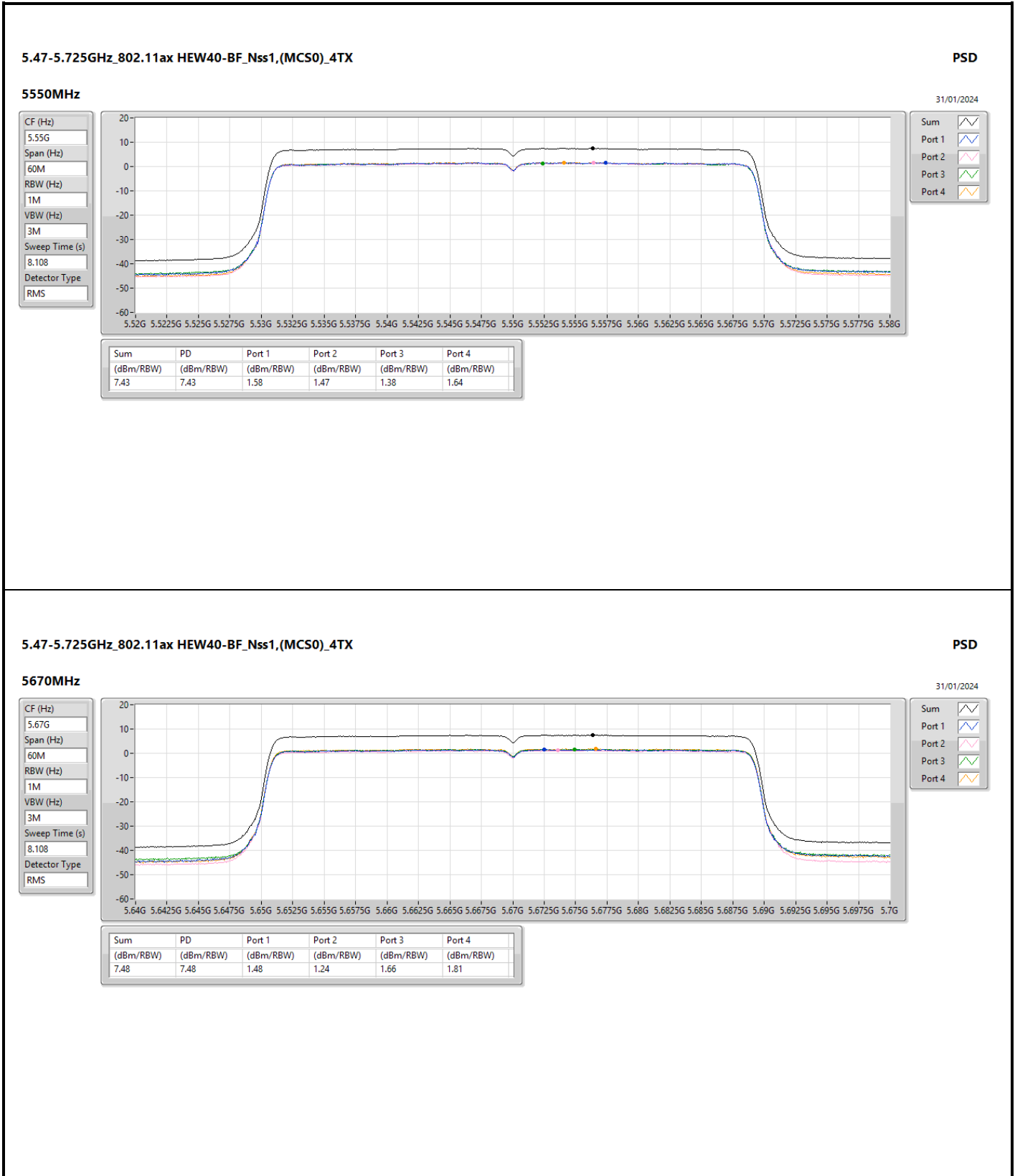




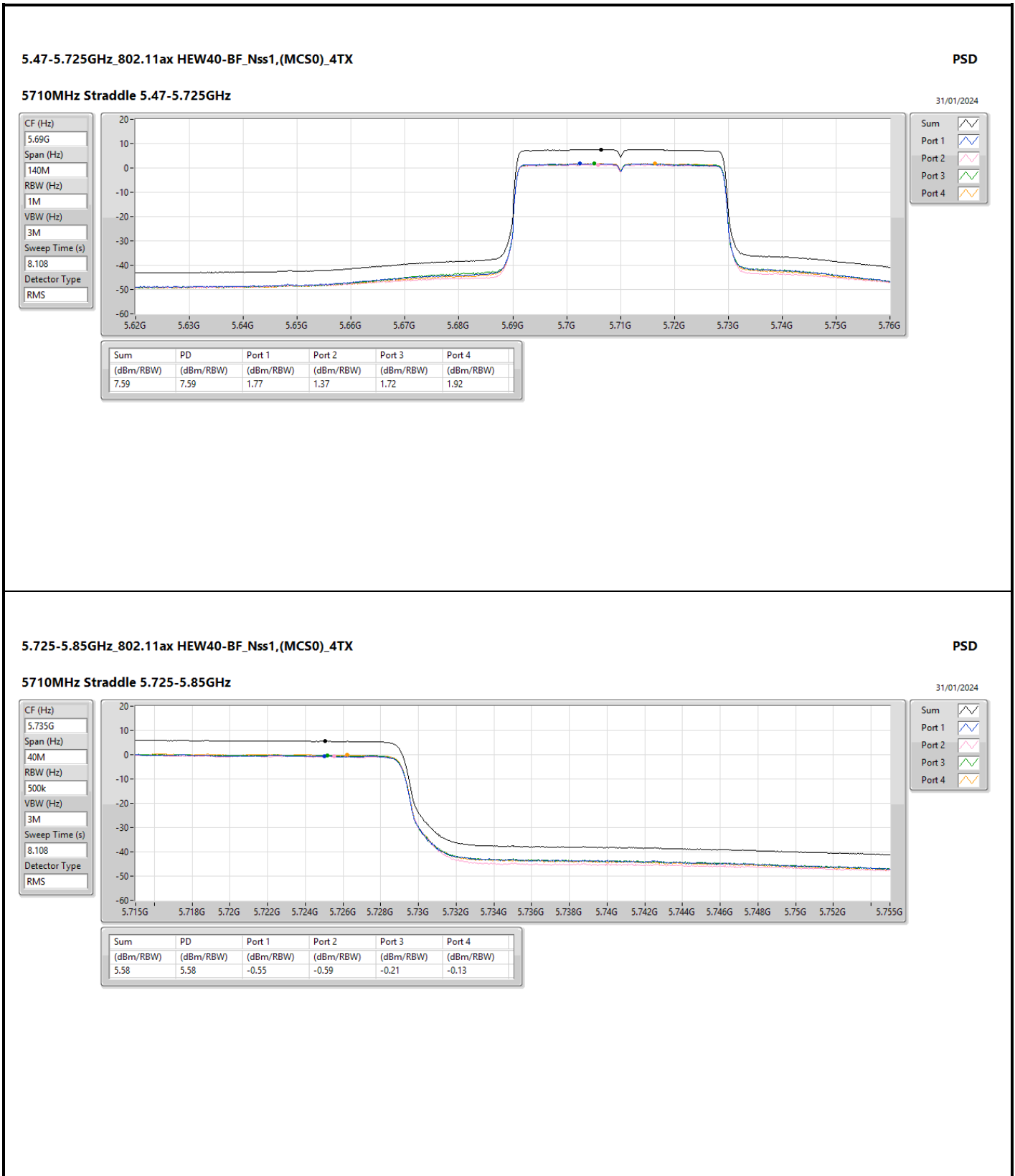












5.725-5.85GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

31/01/2024

CF (Hz)  
5.735G

Span (Hz)  
40M

RBW (Hz)  
500k

VBW (Hz)  
3M

Sweep Time (s)  
8.108

Detector Type  
RMS



Sum 

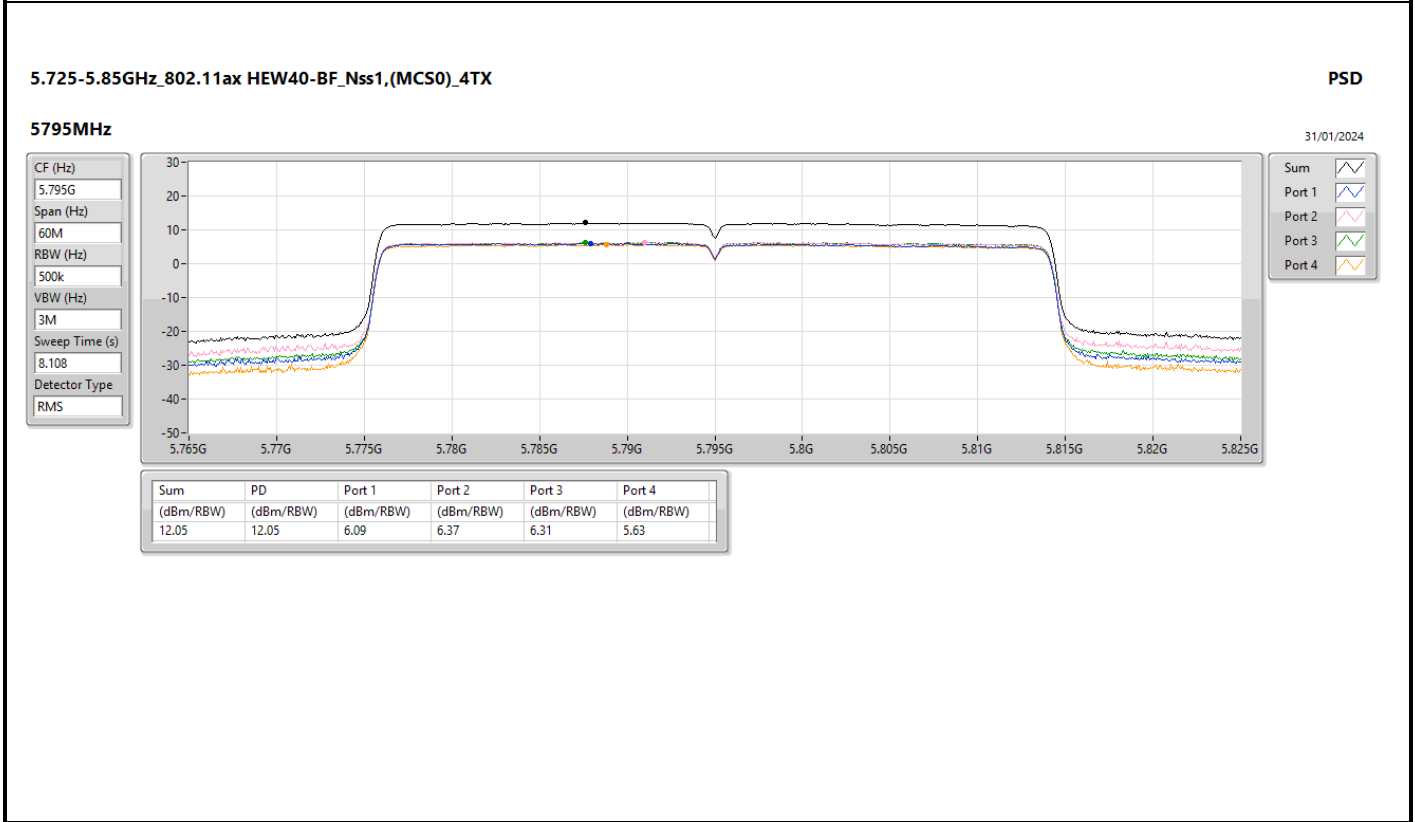
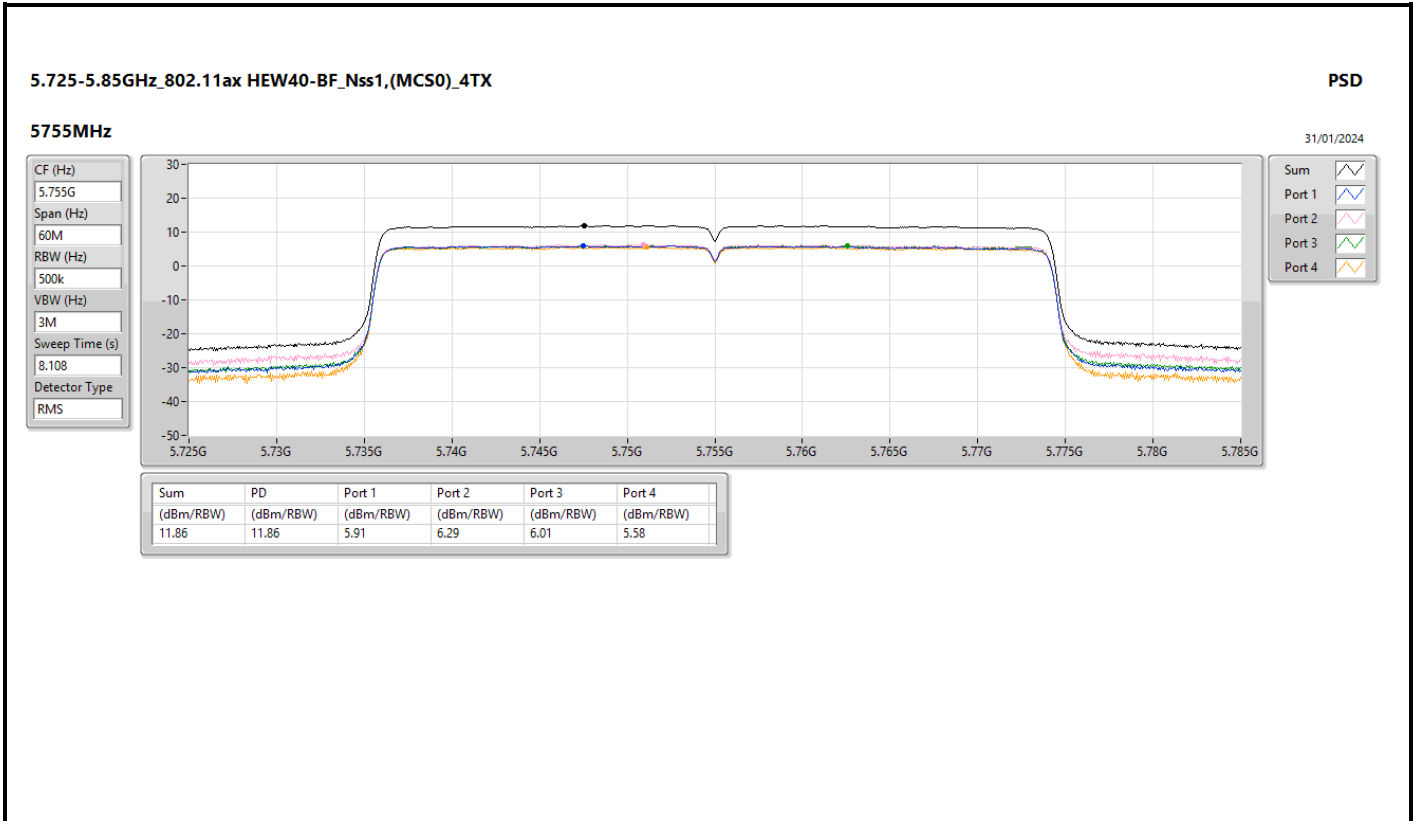
Port 1 

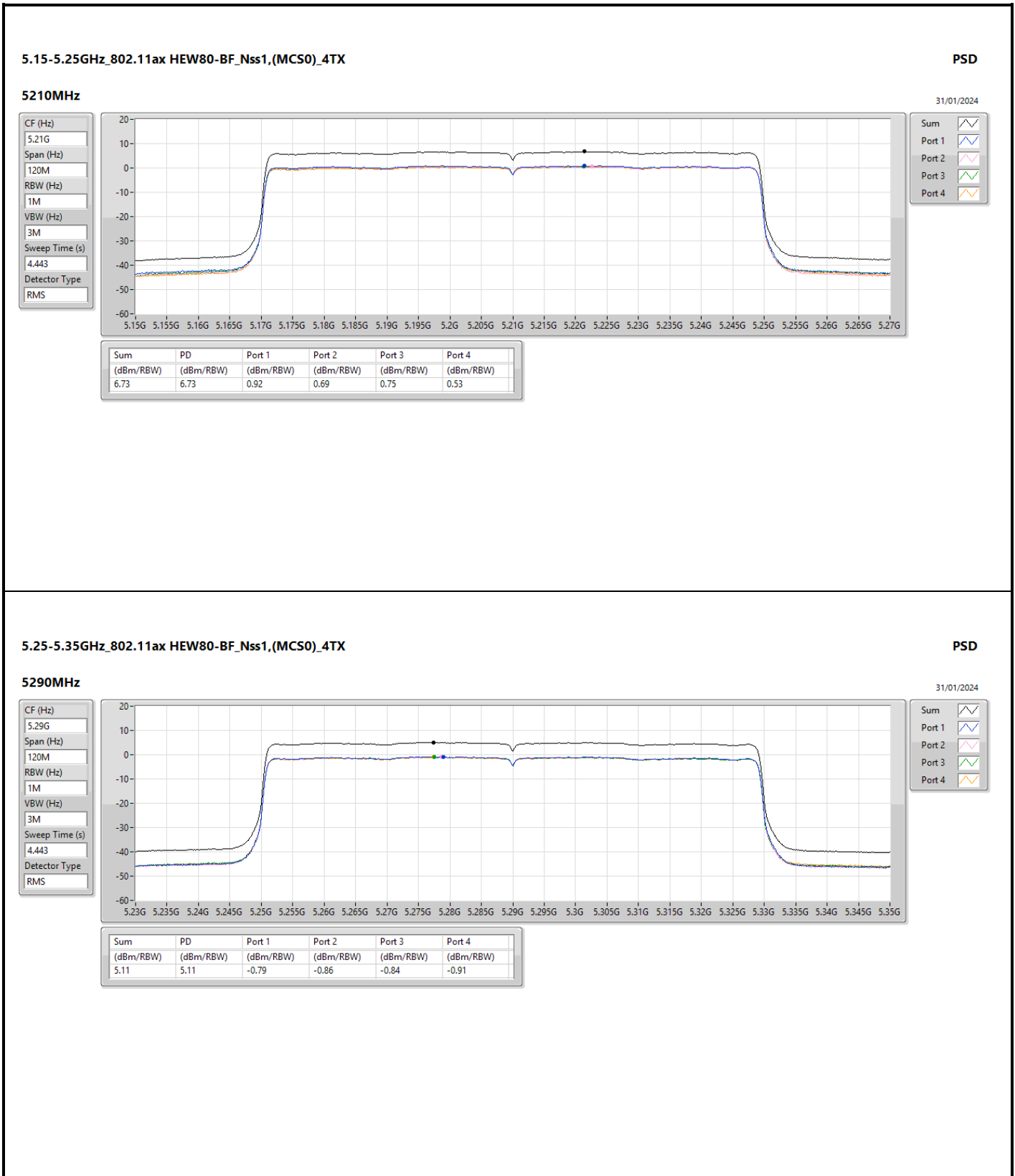
Port 2 

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)
5.58	5.58	-0.55	-0.59	-0.21	-0.13





5.25-5.35GHz\_802.11ax HEW80-BF\_Nss1,(MCS0)\_4TX

PSD

5290MHz

31/01/2024

CF (Hz)  
5.29G

Span (Hz)  
120M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
4.443

Detector Type  
RMS



Sum 

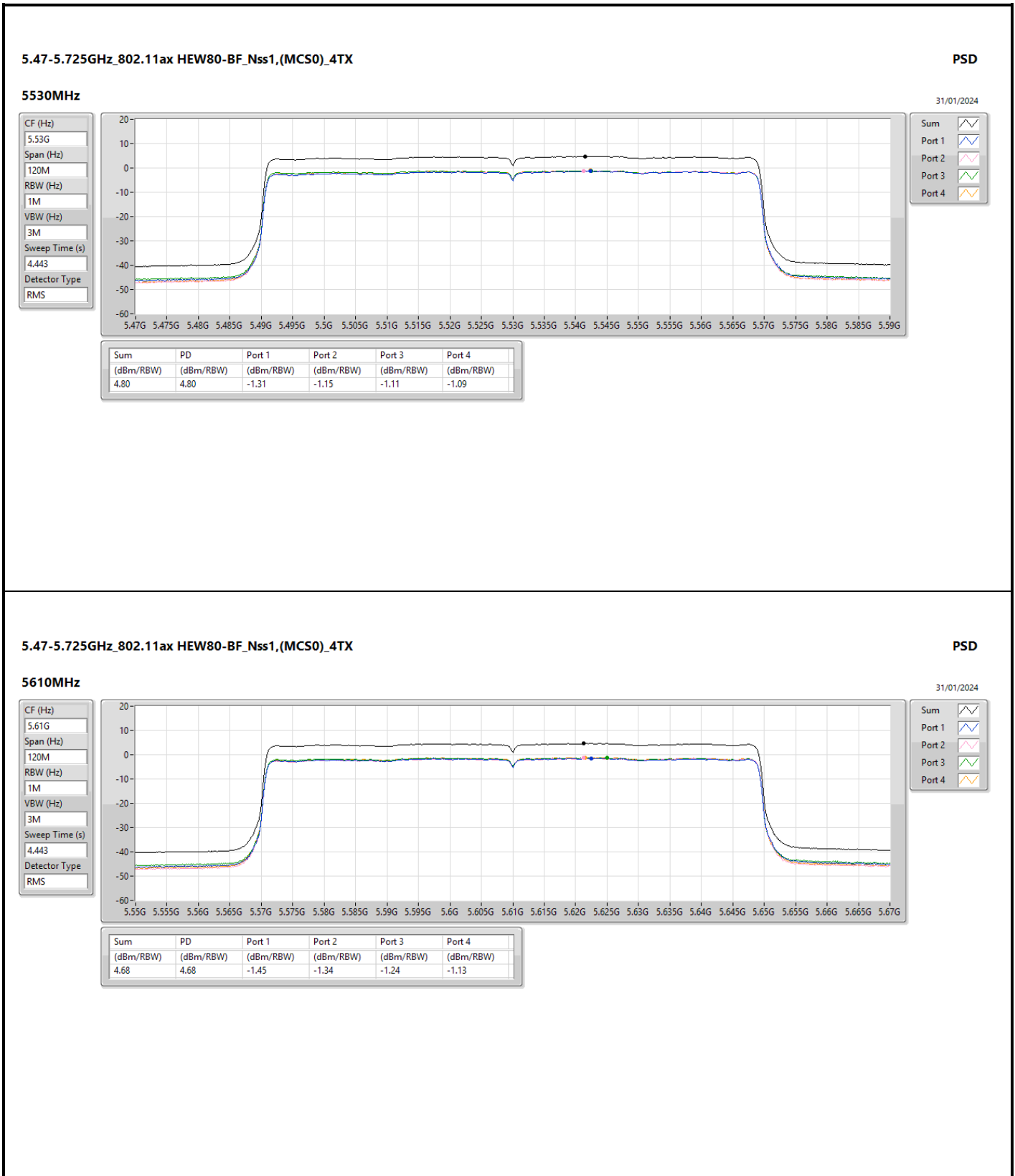
Port 1 

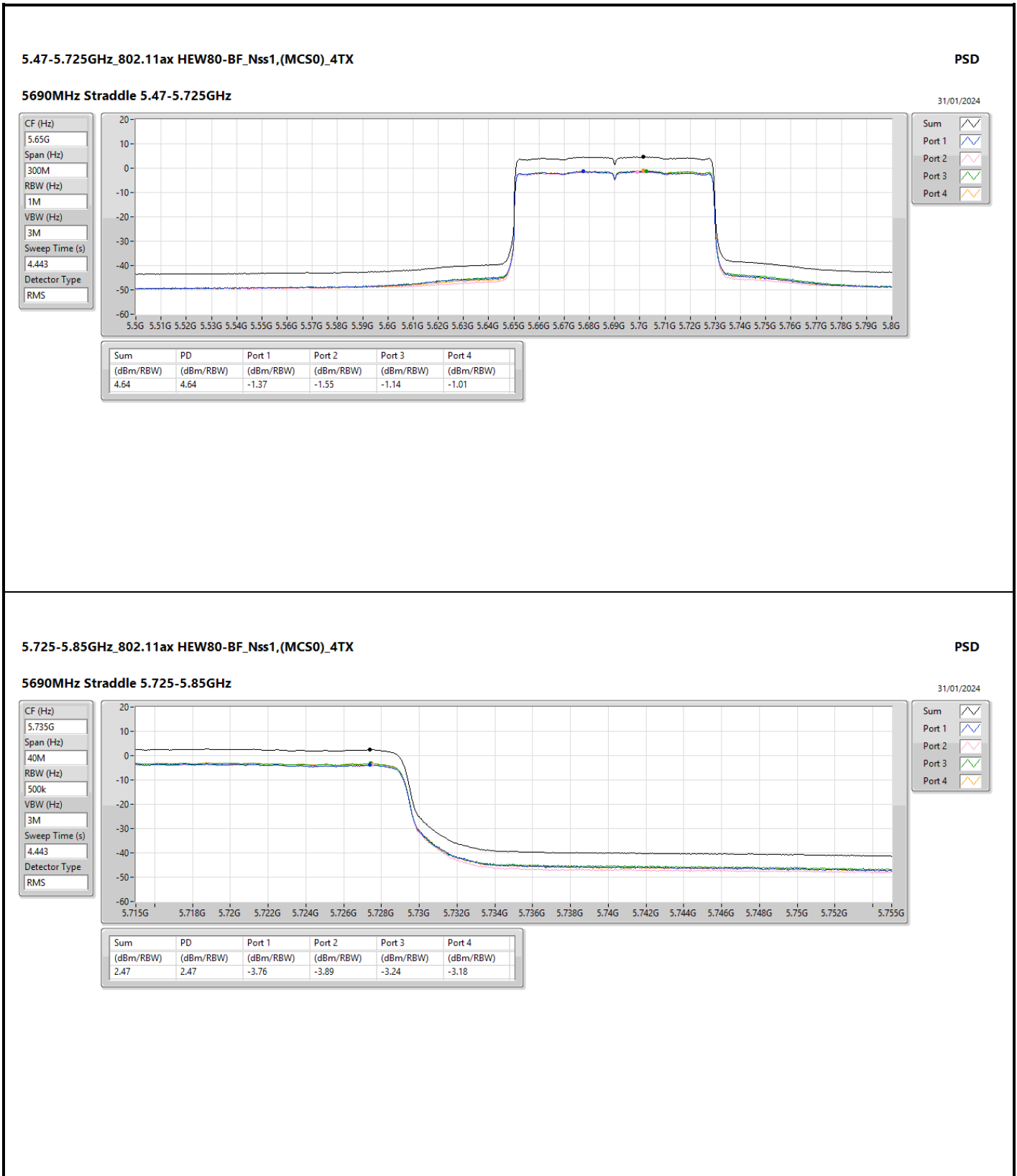
Port 2 

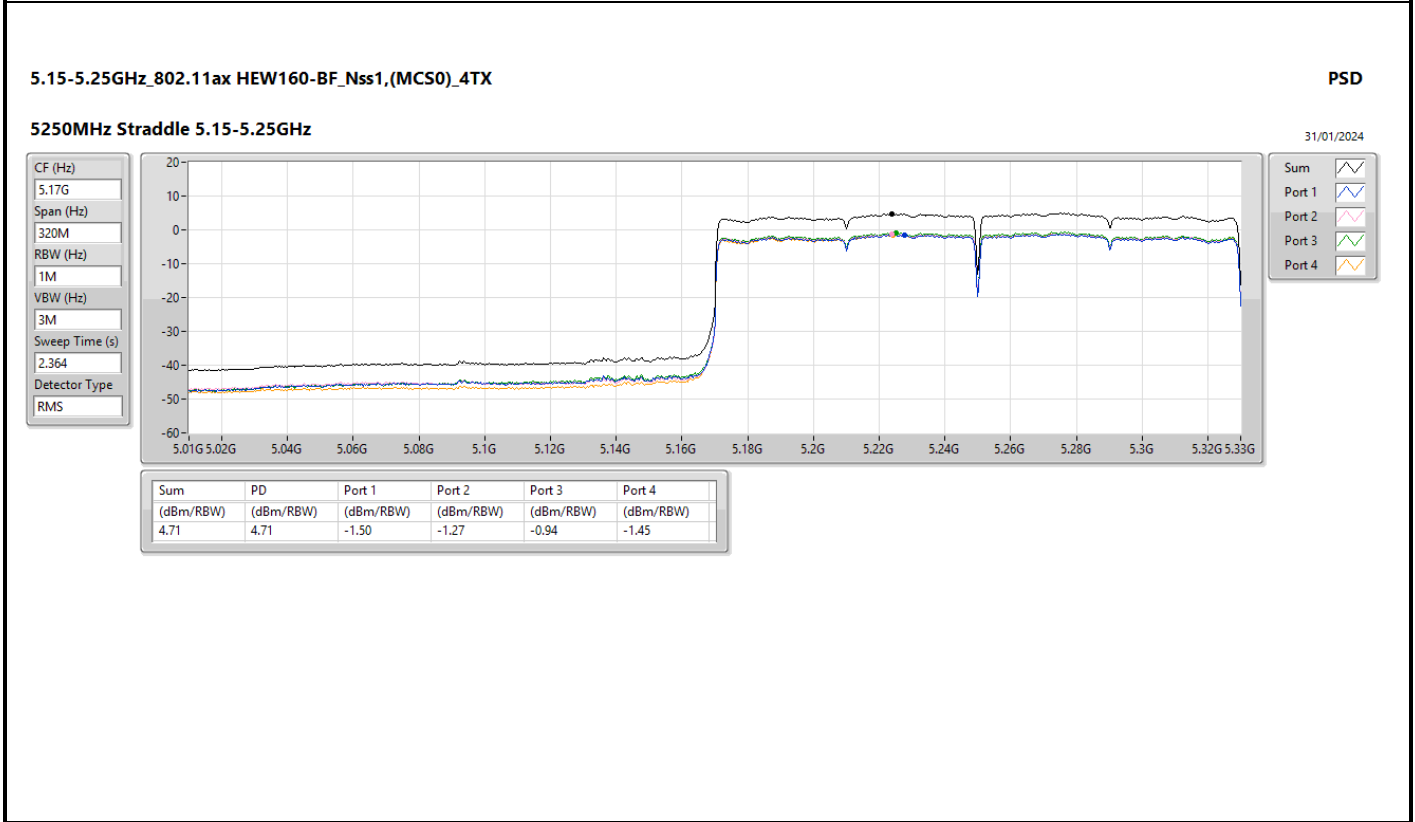
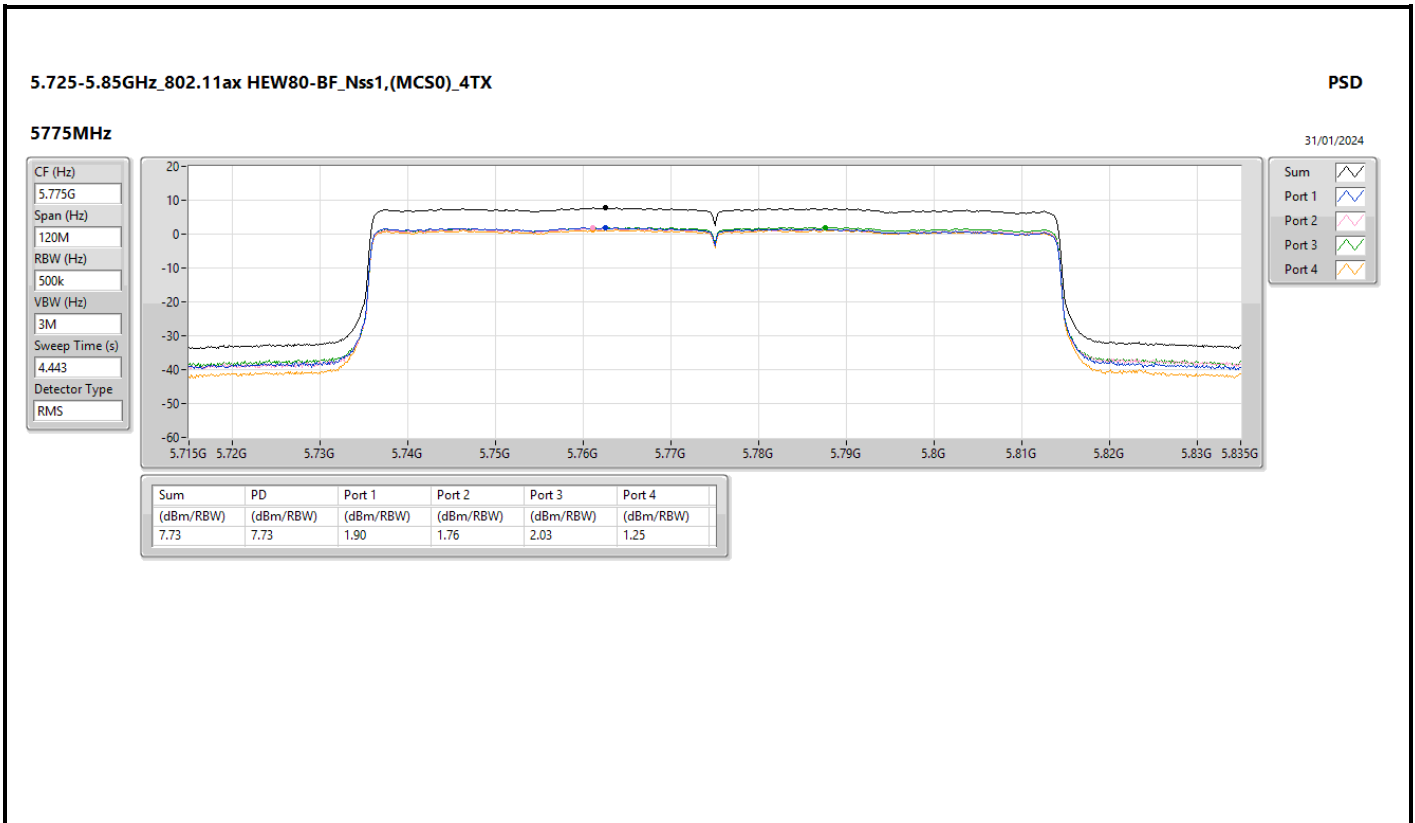
Port 3 

Port 4 

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.11	5.11	-0.79	-0.86	-0.84	-0.91









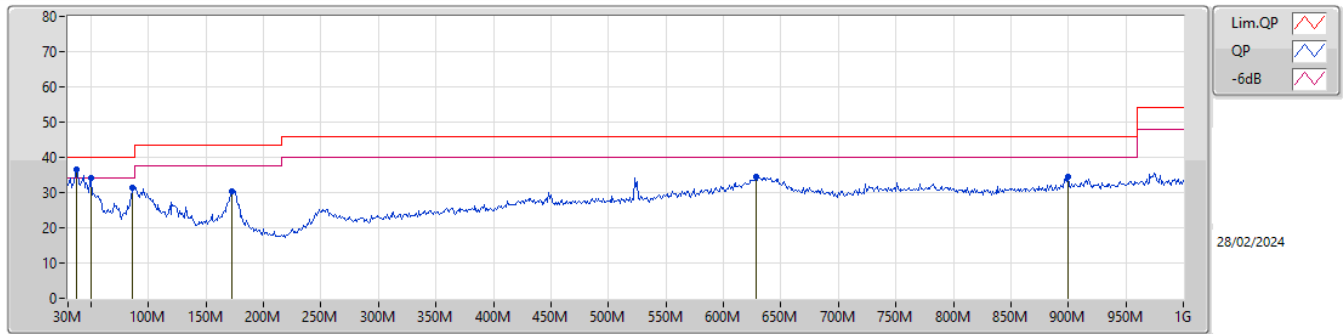


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	37.76M	36.52	40.00	-3.48	Vertical

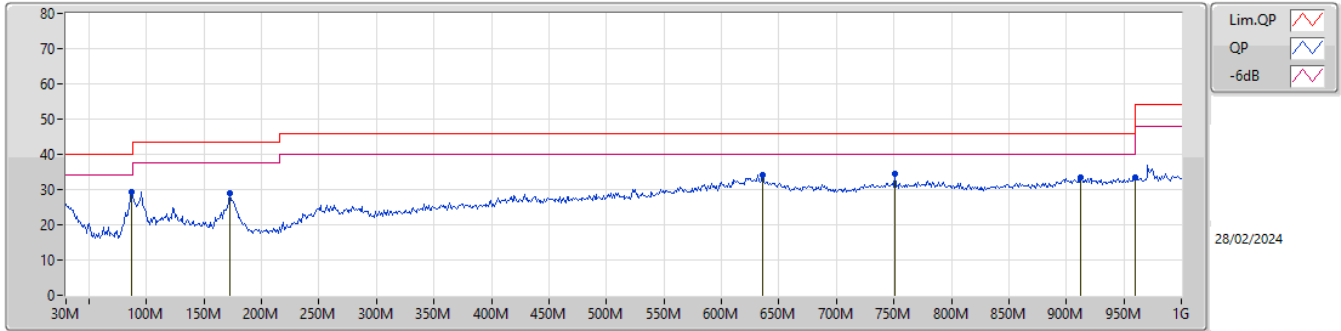


Mode 2



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	37.76M	36.52	40.00	-3.48	-10.87	3	Vertical	360	1.50	"Worst"	47.39	20.29	1.23	32.39
PK	50.37M	34.15	40.00	-5.85	-16.55	3	Vertical	0	1.25	-	50.70	14.46	1.32	32.33
PK	86.26M	31.26	40.00	-8.74	-16.38	3	Vertical	360	1.00	-	47.64	14.40	1.60	32.38
PK	172.59M	30.38	43.50	-13.12	-14.67	3	Vertical	22	1.25	-	45.05	15.63	2.05	32.35
PK	628.49M	34.50	46.00	-11.50	-2.86	3	Vertical	360	1.50	-	37.36	25.09	3.63	31.58
PK	900.09M	34.64	46.00	-11.36	-0.70	3	Vertical	227	1.50	-	35.34	26.52	4.32	31.54

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	87.23M	29.47	40.00	-10.53	-16.20	3	Horizontal	84	2.00	"Worst"	45.67	14.58	1.60	32.38
PK	172.59M	29.08	43.50	-14.42	-14.67	3	Horizontal	91	2.00	-	43.75	15.63	2.05	32.35
PK	636.25M	34.24	46.00	-11.76	-2.72	3	Horizontal	293	1.50	-	36.96	25.15	3.65	31.52
PK	750.71M	34.53	46.00	-11.47	-1.95	3	Horizontal	223	1.25	-	36.48	25.55	3.93	31.43
PK	912.7M	33.49	46.00	-12.51	-0.39	3	Horizontal	273	3.00	-	33.88	26.53	4.34	31.26
PK	960M	33.50	54.00	-20.50	0.72	3	Horizontal	360	1.25	-	32.78	26.70	4.43	30.41



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	PK	5.6425G	68.19	68.20	-0.01	3	Vertical	215.2	1.64	-