



RADIO TEST REPORT

FCC ID : MSQ-RTBE7D00
Equipment : BE6800 Dual-band WiFi Router
Brand Name : ASUS
Model Name : RT-BE86U, RT-BE6800
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 18, 2024, and testing was started from Apr. 17, 2024 and completed on Jun. 05, 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
FR3N2202-01AB	01	Initial issue of report	Jun. 17, 2024
FR3N2202-01AB	02	Fill the blank space of Beamforming Function and cancel the Client Function in section 1.1.4.	Jun. 19, 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: Sophia Shiung



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80), be (EHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160), be (EHT160)	5250	50 [1]
5470-5725		5570	114 [1]

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



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



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



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

Note:

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



1.1.2 Antenna Information

Set	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1~3	WALSIN	RFDPA141500SBLB807	Dipole	Reversed-SMA	Note 1
	4	INPAQ	RFPCA302604IM5B301	PCB	I-PEX	
2	1~3	WHA YU	C660-510490-A	Dipole	Reversed-SMA	
	4	WHA YU	C660-510579-A	PCB	I-PEX	

Note 1:

Set	Ant.	Port		Gain (dBi)				
		WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz			
					UNII 1	UNII 2A	UNII 2C	UNII 3
1	1	1	4	1.97	1.88	1.88	1.94	1.78
	2	2	3	1.97	1.88	1.88	1.94	1.78
	3	3	2	1.97	1.88	1.88	1.94	1.78
	4	-	1	-	1.99	1.99	1.99	1.99
2	1	1	4	1.95	1.87	1.87	1.93	1.72
	2	2	3	1.95	1.87	1.87	1.93	1.72
	3	3	2	1.95	1.87	1.87	1.93	1.72
	4	-	1	-	1.97	1.97	1.97	1.97

Note 2: Because Set 1 and Set 2 are composed of the same types of antennas, Set 1 with higher gain was selected to test.

Note 3: The above information was declared by manufacturer.

Note 4: Directional gain information of antenna Set 1

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where;



2.4G G1= 1.97 dBi ;G2= 1.97 dBi ;G3= 1.97 dBi
5G UNII-1 G1 = 1.99 dBi; G2 = 1.88 dBi;G3 = 1.88 dBi; G4 = 1.88 dBi
5G UNII-2A G1= 1.99 dBi; G2 = 1.88 dBi;G3 = 1.88 dBi; G4 = 1.88 dBi
5G UNII-2C G1 = 1.99 dBi; G2 = 1.94 dBi;G3 = 1.94 dBi; G4 = 1.94 dBi
5G UNII-3 G1 = 1.99 dBi; G2 = 1.78 dBi;G3 = 1.78 dBi; G4 = 1.78 dBi

3T1S
2.4G DG = 6.74 dBi
3T2S
2.4G DG=3.73 dBi

The 5GHz bands support four antennas, there are three antennas that are vertical polarization, and the other antenna is horizontal polarization. Thus, the cross-polarized array gain was calculated to $10\log(3)$.

4T1S
5G UNII-1 DG = 6.65 dBi
5G UNII-2A DG = 6.65 dBi
5G UNII-2C DG = 6.71 dB
5G UNII-3 DG = 6.55 dBi
4T2S
5G UNII-1 DG = 3.64 dBi
5G UNII-3 DG = 3.54 dBi

Note 5: For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be (3TX/3RX):

Port 1~3 can be used as transmitting/receiving antenna.
Port 1~3 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1~4 can be used as transmitting/receiving antenna.
Port 1~4 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

For 4T1S:

Table with 5 columns: Mode, DC, DCF (dB), T (s), VBW (Hz)_1/T. Rows include 802.11a_Nss 1,(6D), 802.11be EHT20-BF_Nss 1,(M0), 802.11be EHT40-BF_Nss 1,(M0), 802.11be EHT80-BF_Nss 1,(M0), 802.11be EHT160-BF_Nss 1,(M0).

For 4T2S:

Table with 5 columns: Mode, DC, DCF (dB), T (s), VBW (Hz)_1/T. Row includes 802.11be EHT80-BF_Nss 2,(M0).

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

1.1.4 EUT Operational Condition

Form with sections: EUT Power Type, Beamforming Function, Weather Band, Function, TPC Function, Channel Puncturing Function, Support RU, Test Software Version.

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Table with 2 columns: Model Name, Description. Rows include RT-BE86U, RT-BE6800.

Note 1: From the above models, model: RT-BE86U was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.1.6 Table for EUT support Function

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

Note 1: The AP Router (Master) mode was tested and recorded in this test report.

Note 2: The USB ports of the EUT support storage function and WWAN function. During the operation of WWAN function, the 10G WAN/LAN port will fix to WAN function.

Note 3: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (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	22.8~24.3 / 60~65	May 08, 2024~ May 24, 2024
Radiated < 1GHz	03CH03-CB	Eason Chen	21.4~22.5 / 55~58	May 06, 2024~ Jun. 05, 2024
	03CH05-CB		22.7~23.8 / 56~59	
Radiated > 1GHz	03CH02-CB	Eason Chen	22~23 / 55~58	May 06, 2024~ Jun. 05, 2024
	03CH06-CB		21.9~22.4 / 55~58	
Radiated (Co-location)	03CH05-CB	Eason Chen	22.7~23.8 / 56~59	May 06, 2024~ Jun. 05, 2024
AC Conduction	CO01-CB	Allen Chung	22~23 / 51~52	Apr. 17, 2024~ May 27, 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))

Test Date: Before May 28, 2024

Test Items	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%

Test Date: After May 27, 2024

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For 4T1S:

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX



5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

For 4T2S:

Mode
802.11be EHT80-BF_Nss2,(MCS0)_4TX
5210MHz
5775MHz

Note:

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



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter 1_WAN mode: 10G WAN/LAN (WAN) + 2.5G WAN/LAN1 (LAN) + 2.5G LAN2 (LAN) + USB 2.0 (R/W) + USB 3.0 (R/W)
2	EUT + Adapter 1_WAN mode: 10G WAN/LAN (LAN) + 2.5G WAN/LAN1 (WAN) + 2.5G LAN2 (LAN) + USB 2.0 (R/W) + USB 3.0 (R/W)
3	EUT + Adapter 1_WWAN mode: 10G WAN/LAN (WAN) + 2.5G WAN/LAN1 (LAN) + 2.5G LAN2 (LAN) + USB 2.0 (WWAN) + USB 3.0 (R/W)
4	EUT + Adapter 1_WWAN mode: 10G WAN/LAN (WAN) + 2.5G WAN/LAN1 (LAN) + 2.5G LAN2 (LAN) + USB 2.0 (R/W) + USB 3.0 (WWAN)
Mode 2 has been evaluated to be the worst case among Mode 1~4, so the measurement for Mode 5~6 will follow this same test mode.	
5	EUT + Adapter 2 + Power cable 1_WAN mode: 10G WAN/LAN (LAN) + 2.5G WAN/LAN1 (WAN) + 2.5G LAN2 (LAN) + USB 2.0 (R/W) + USB 3.0 (R/W)
6	EUT + Adapter 3 + Power cable 2_WAN mode: 10G WAN/LAN (LAN) + 2.5G WAN/LAN1 (WAN) + 2.5G LAN2 (LAN) + USB 2.0 (R/W) + USB 3.0 (R/W)
For operating, mode 2 is the worst case and it was recorded in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis + Adapter 1_WLAN 2.4GHz
2	EUT in Y axis + Adapter 2 + Power cable 1_WLAN 2.4GHz
3	EUT in Y axis + Adapter 3 + Power cable 2_WLAN 2.4GHz



Mode 2 has been evaluated to be the worst case among Mode 1~3, so the measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis + Adapter 2 + Power cable 1_WLAN 5GHz
For operating, mode 2 is the worst case and it was recorded in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
2	WLAN 2.4GHz + WLAN 5GHz + WWAN
Refer to Sporton Test Report No.: FA3N2202-01 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

<Non-beamforming mode>

The EUT was programmed to be in continuously transmitting mode.

<Beamforming mode>

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under Win 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "accessMtool 3.3.0.6" to link with the remote workstation to transmit and receive packet by Router and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Power	Brand	Model	Rating	Remark
Adapter 1	LEI	MU60B3120500-A1	Input: 100-240V~50/60Hz, 1.5A Output: 12.0V, 5.0A	-
Adapter 2	AcBel	ADH011	Input: 100-240V, 1.4A, 50-60Hz Output: 19.5V, 2.31A, 45.0W MAX.	DC power cable: Non-shielded, 1.8m
Adapter 3	AcBel	ADK008	Input: 100-240V, 1.4A, 50-60Hz Output: 19.5V, 2.31A, 45.0W MAX.	DC power cable: Non-shielded, 1.8m
Others				
Power cable 1 (For Adapter 2 use only)*1: Non-shielded, 0.8m				
Power cable 2 (For Adapter 3 use only)*1: Non-shielded, 0.8m				
RJ-45 cable*1: Shielded, 1.5m				



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	10G WAN/LAN PC	DELL	OPTIPLEX 3010	N/A
B	Flash disk3.0	Transcend	JetFlash-703	N/A
C	2.5G WAN/LAN1 PC	DELL	OPTIPLEX 3010	N/A
D	2.5G LAN2 PC	DELL	OPTIPLEX 3010	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	Flash disk3.0	Transcend	JetFlash-703	N/A
H	2.5G LAN4 PC	DELL	OPTIPLEX 3010	N/A

For Radiated < 1GHz:

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

For Radiated > 1GHz (Non-beamforming mode):

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

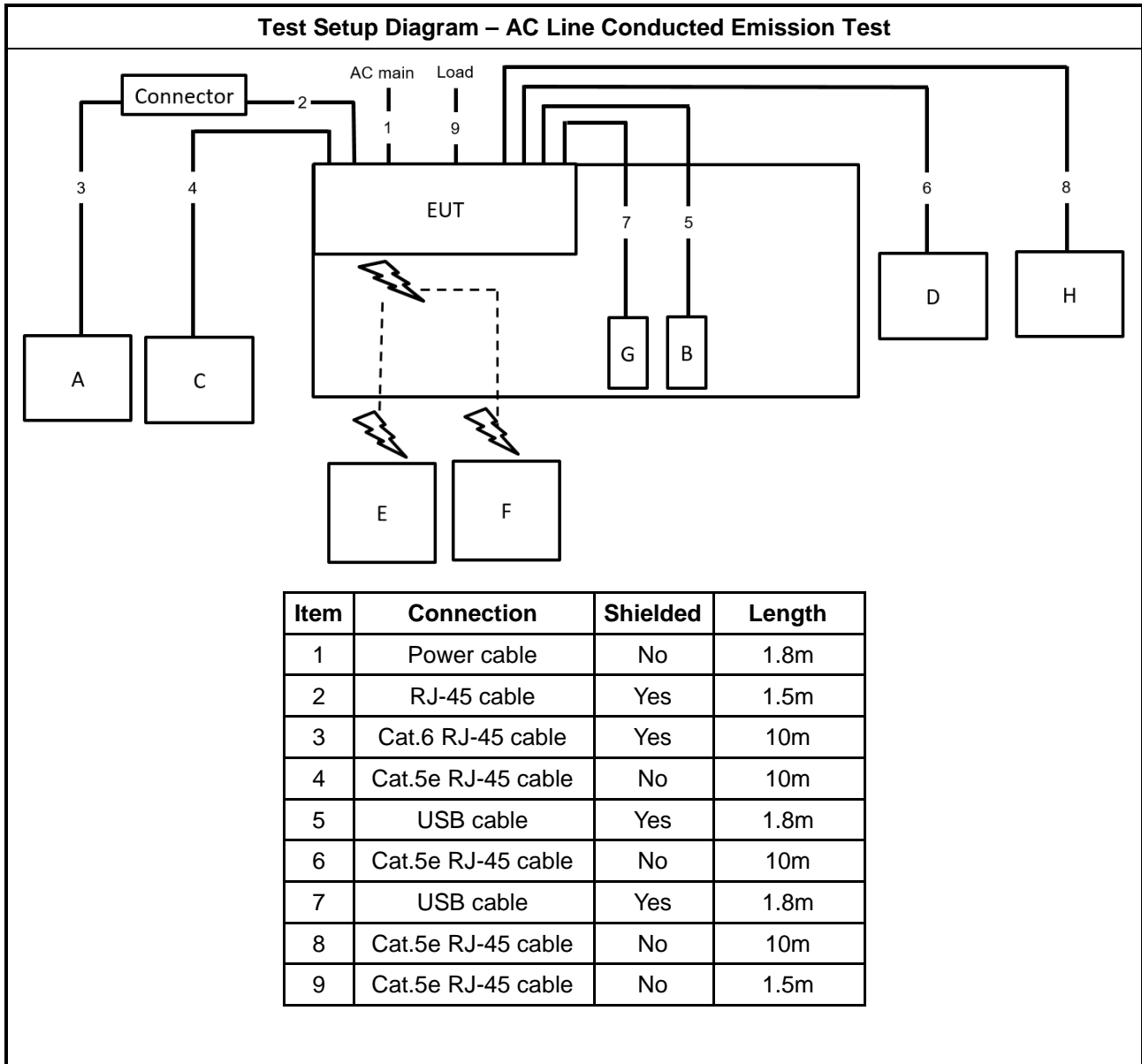
For Radiated > 1GHz (Beamforming mode):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Router	ASUS	RT-BE86U	N/A
C	NB	DELL	E4300	N/A

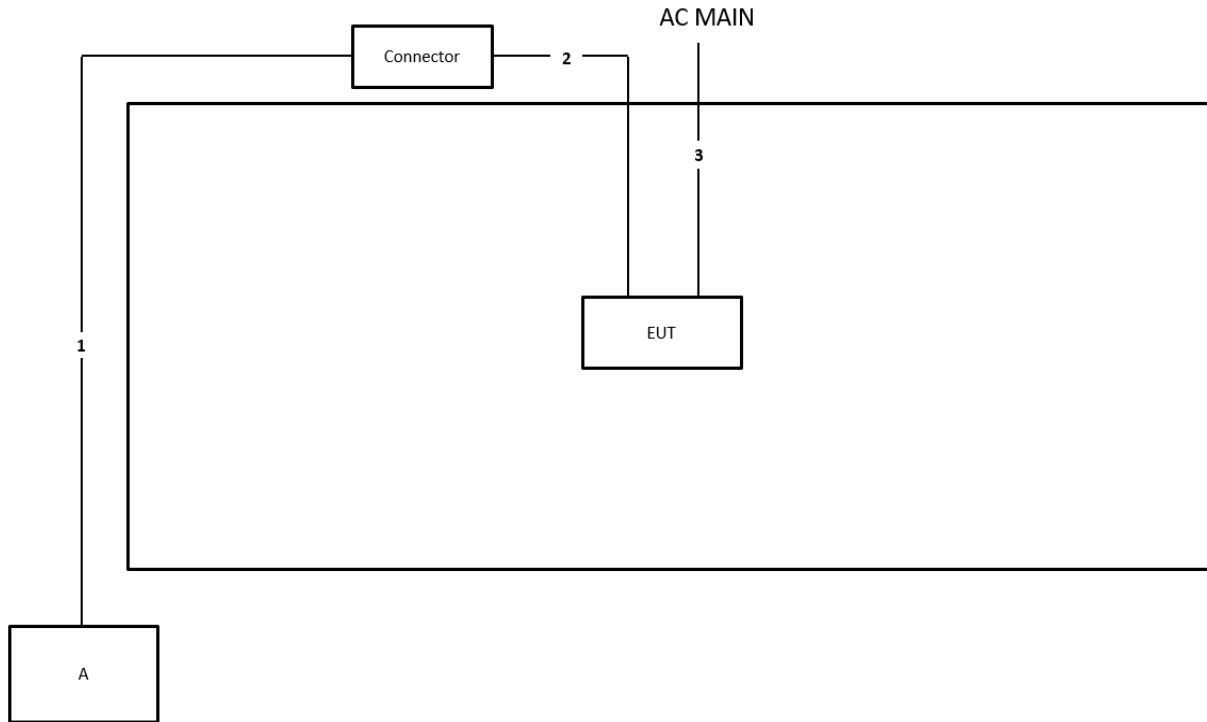
For RF Conducted:

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

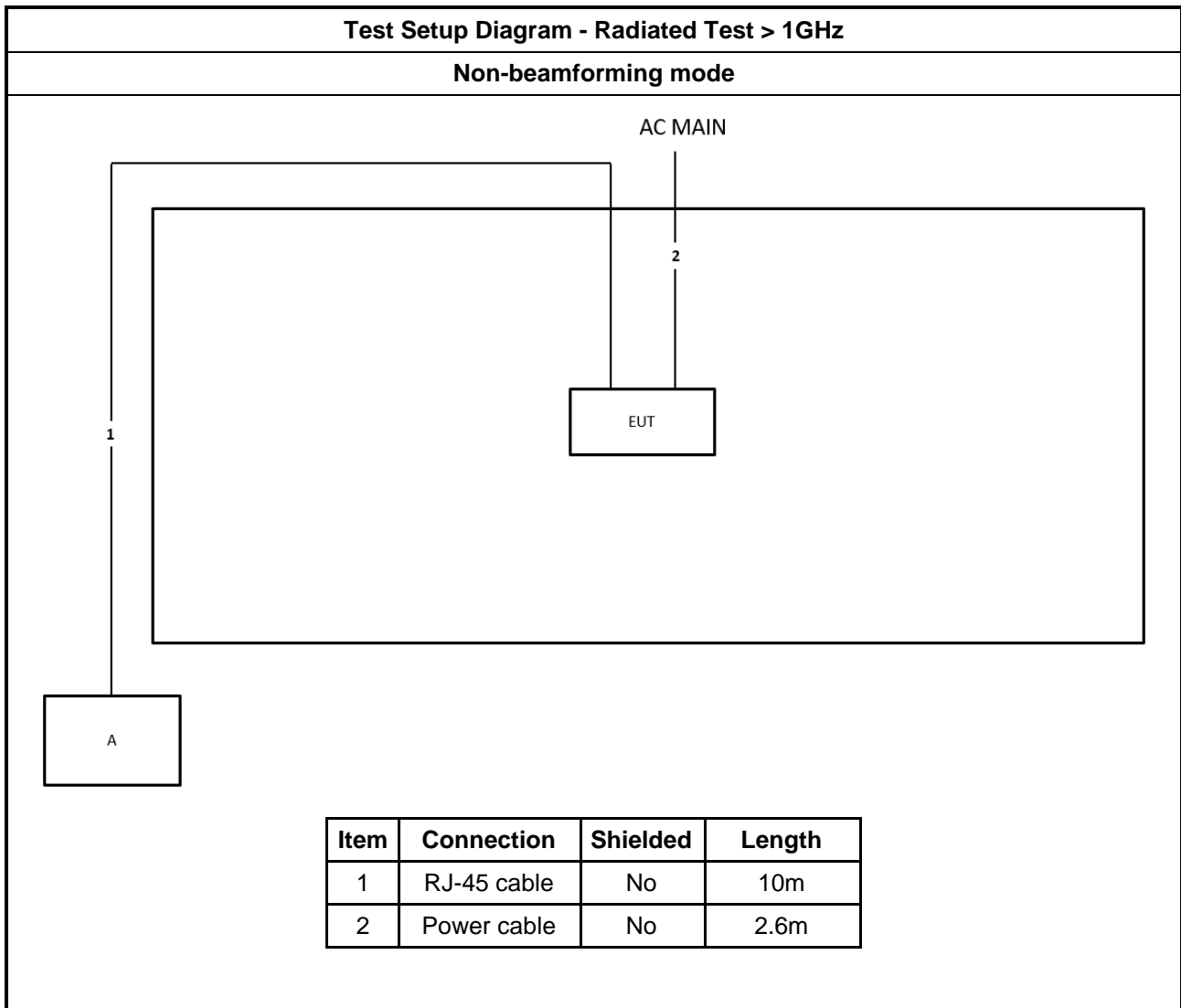
2.6 Test Setup Diagram

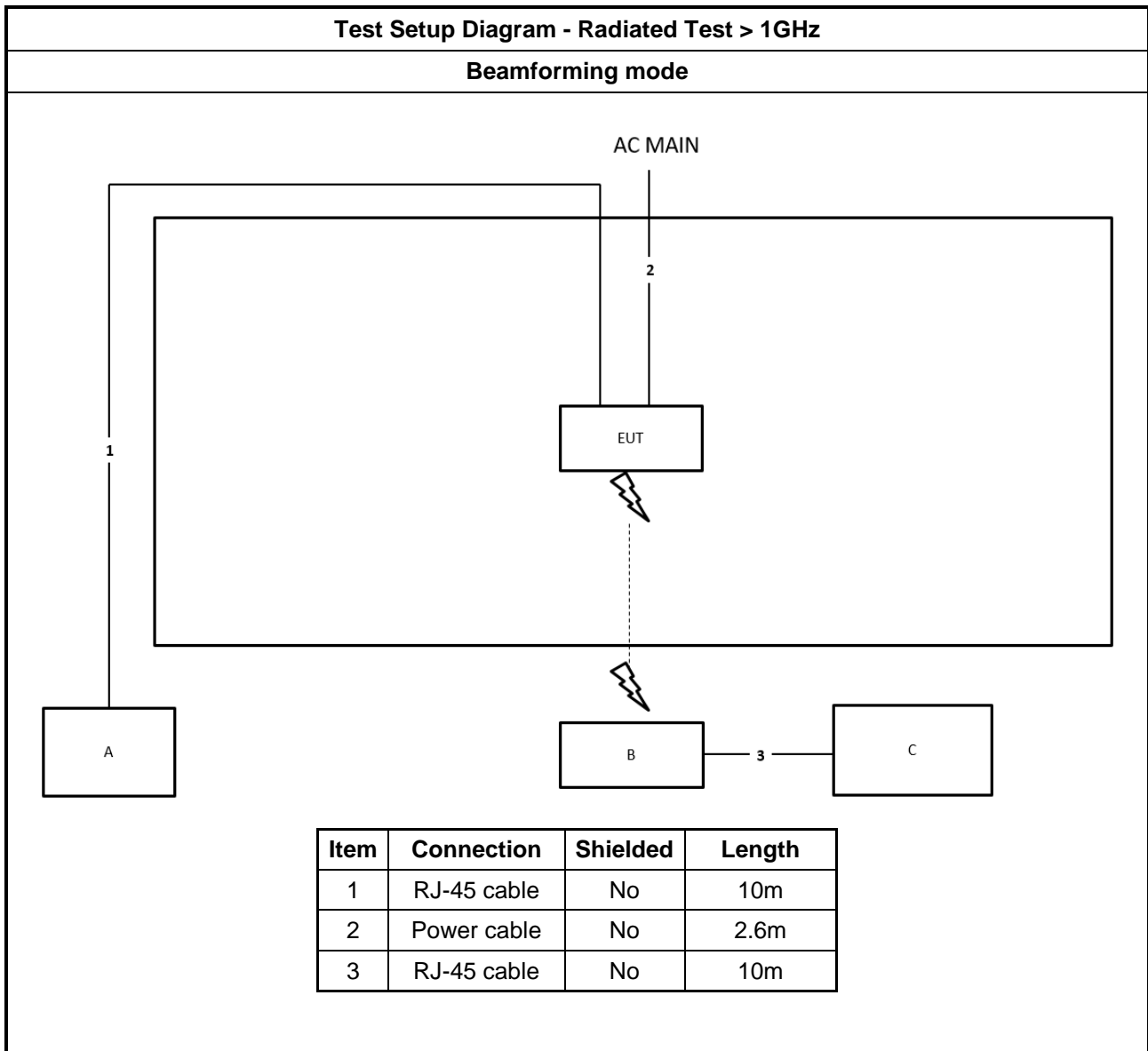


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	Yes	10m
2	RJ-45 cable	Yes	1.5m
3	Power cable	No	2.6m







3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

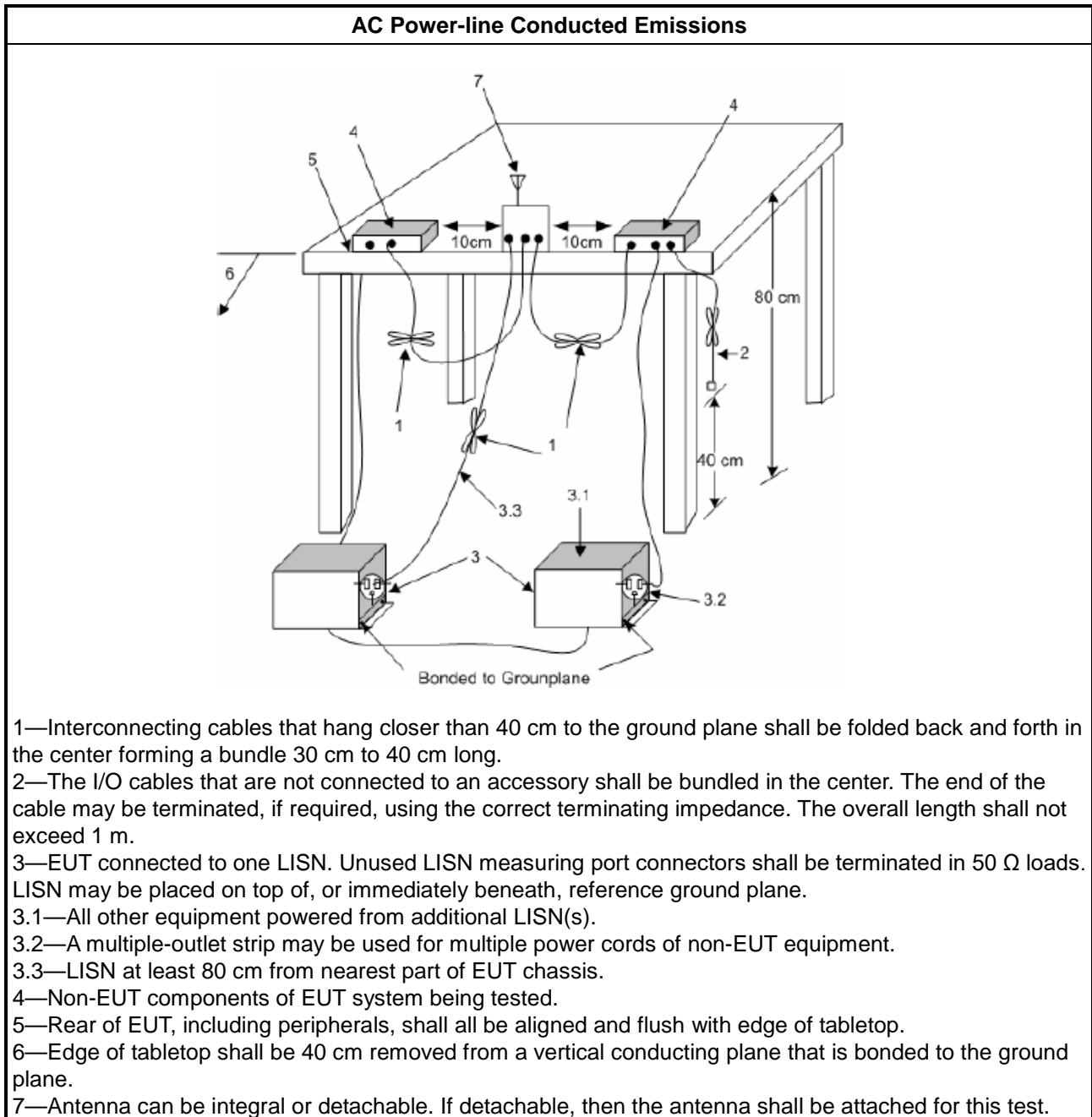
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

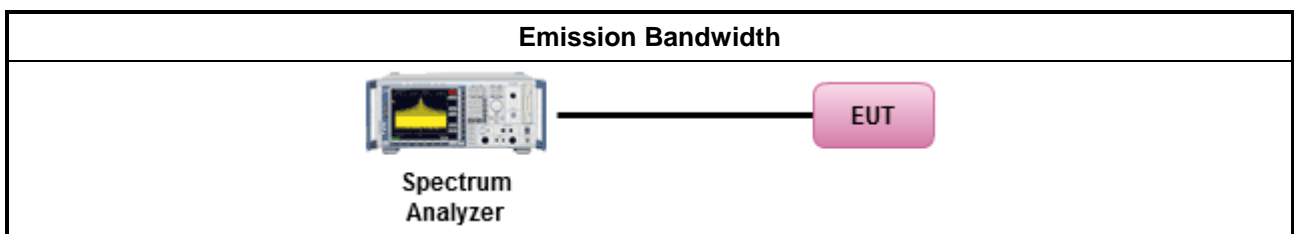
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

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

3.3.2 Measuring Instruments

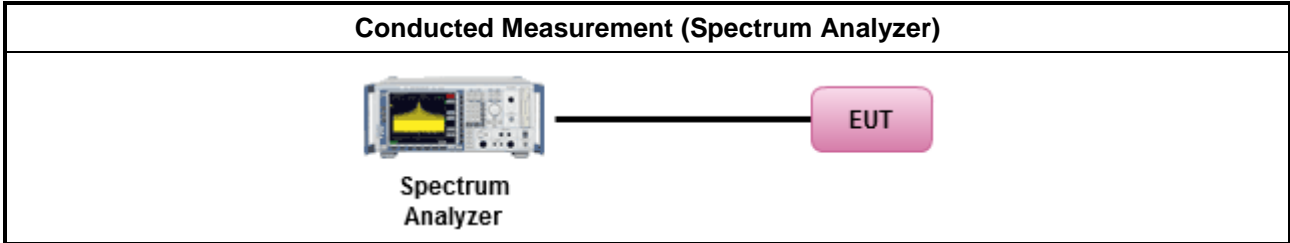
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

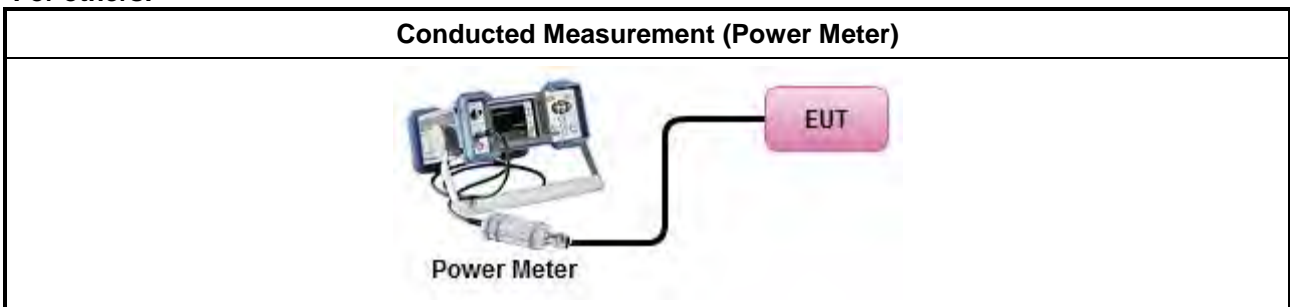
Test Method	
	Average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. ▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

For straddle channels:



For others:



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

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

3.4.2 Measuring Instruments

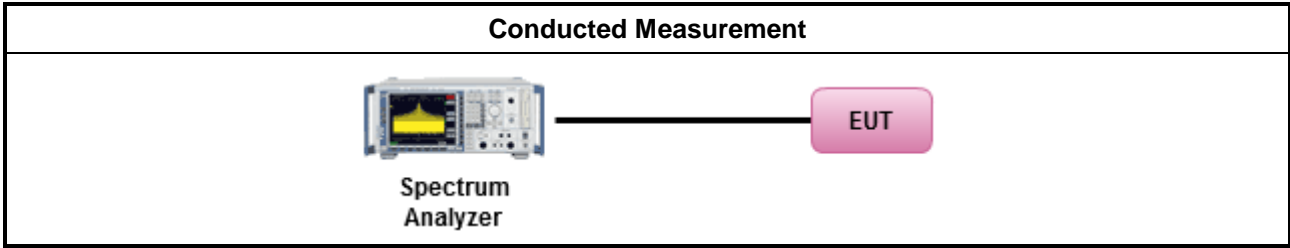
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, 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"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	
<input type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. ▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation. 	

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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



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

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

3.5.2 Measuring Instruments

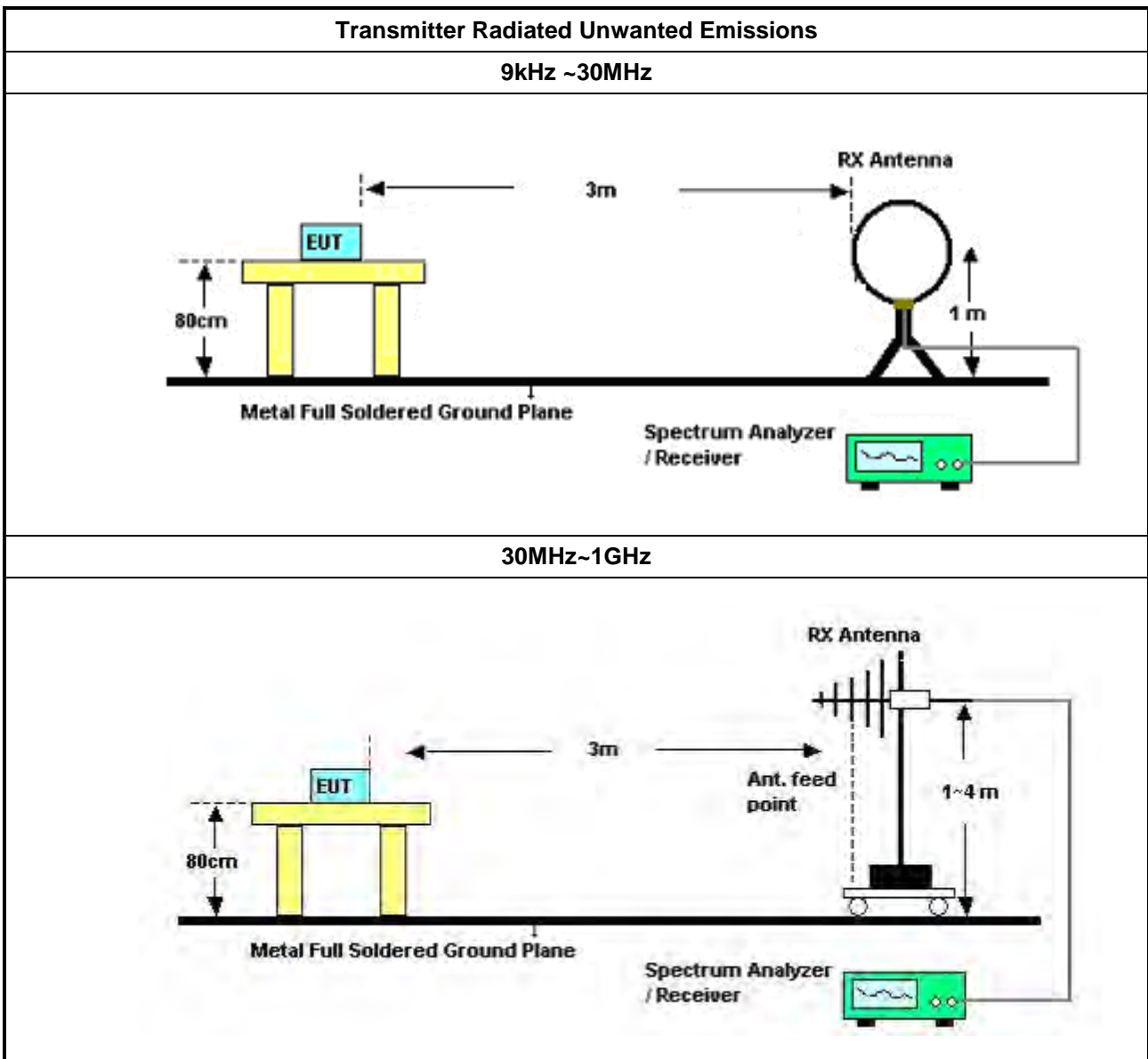
Refer a test equipment and calibration data table in this test report.

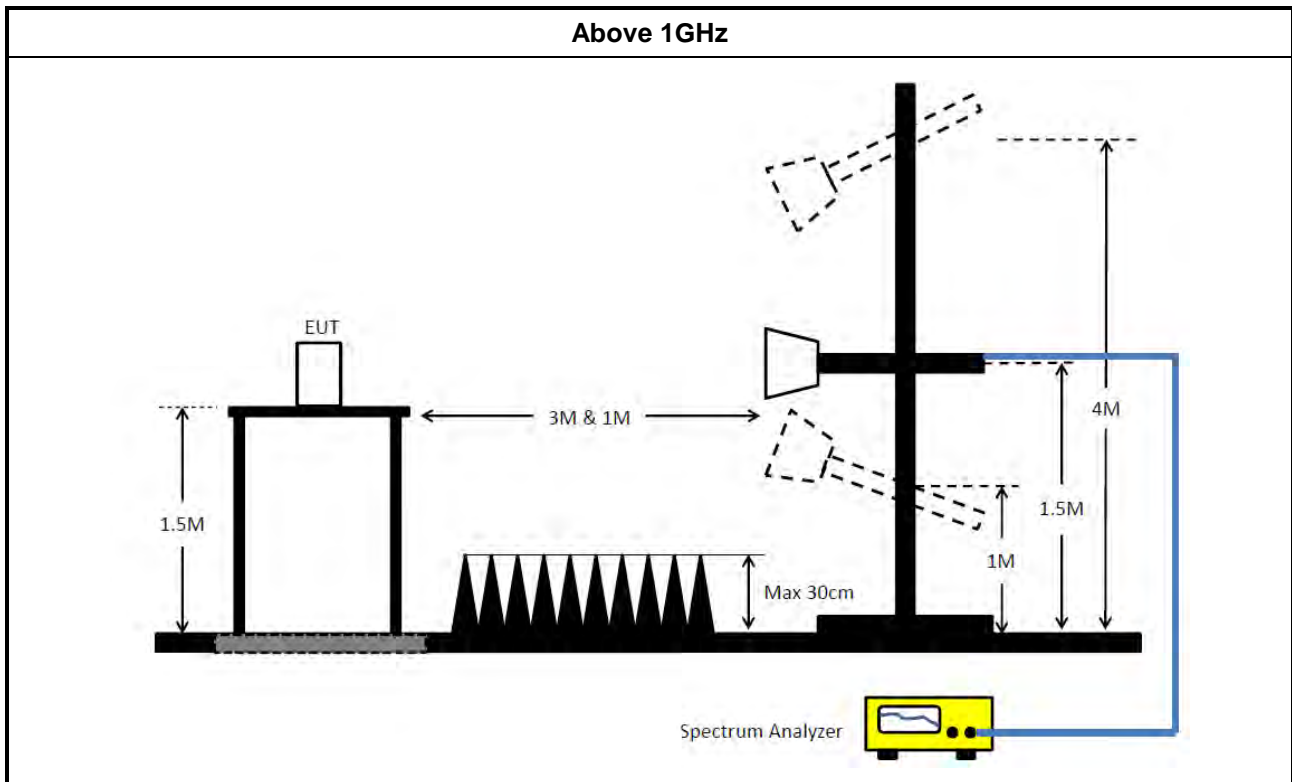
3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). 	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands. Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <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. 	

- For radiated measurement.
 - Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
 - Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
 - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
- The any unwanted emissions level shall not exceed the fundamental emission level.
- All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.5.4 Test Setup





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)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	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 - 30MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30MHz ~ 1GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH03-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMC1	CBL6112B& N-6-06	2888&AT-N0605	30MHz ~ 1GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 08, 2024	Jan. 07, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Apr. 25, 2024	Apr. 24, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30MHz ~ 1GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 29, 2023	Sep. 28, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMC1	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	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	FSV3044	101536	10kHz ~ 44GHz	Jul. 24, 2023	Jul. 23, 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 ~ 40GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-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	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz – 18GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1~26.5GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

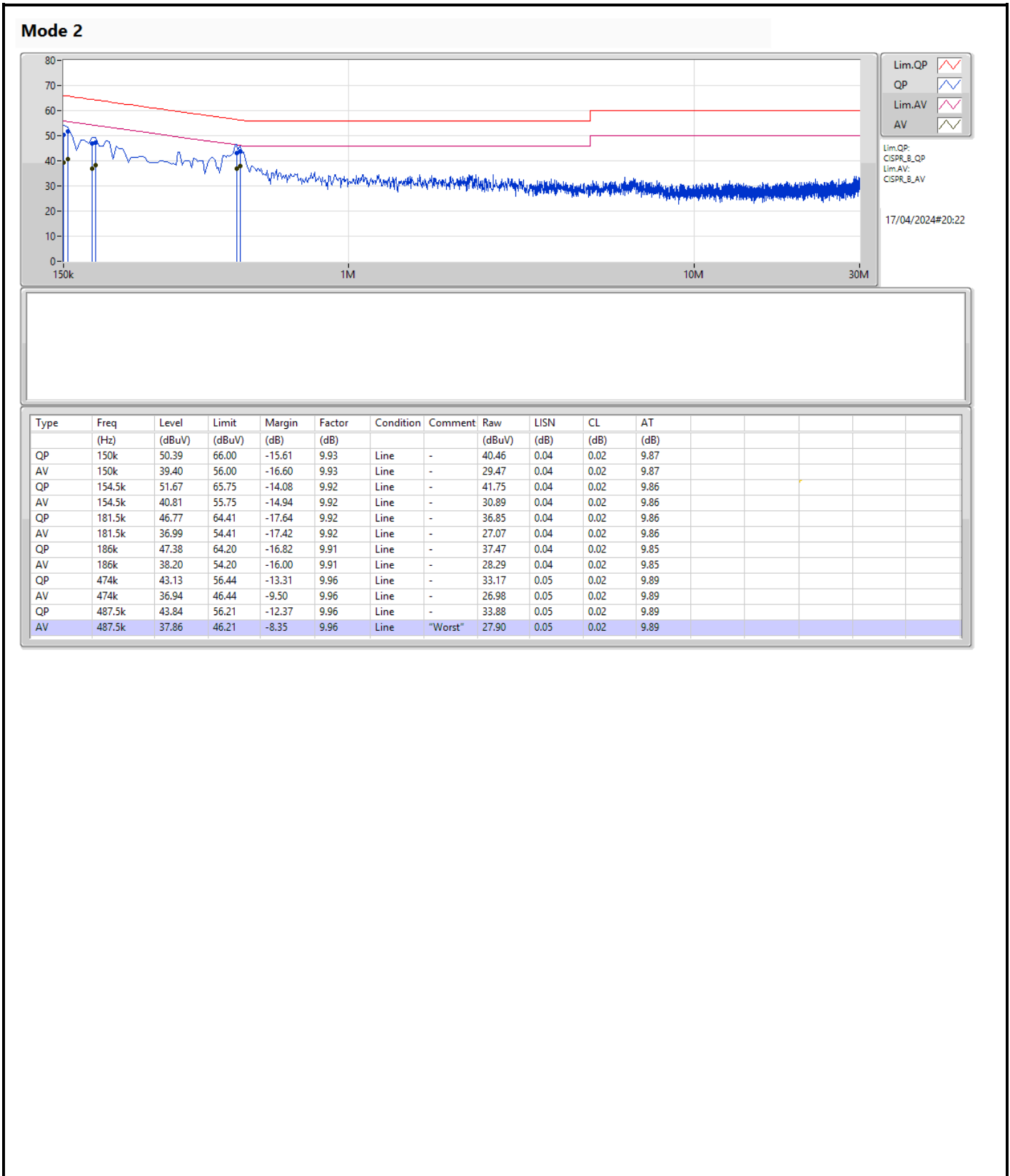
Note: Calibration Interval of instruments listed above is one year.

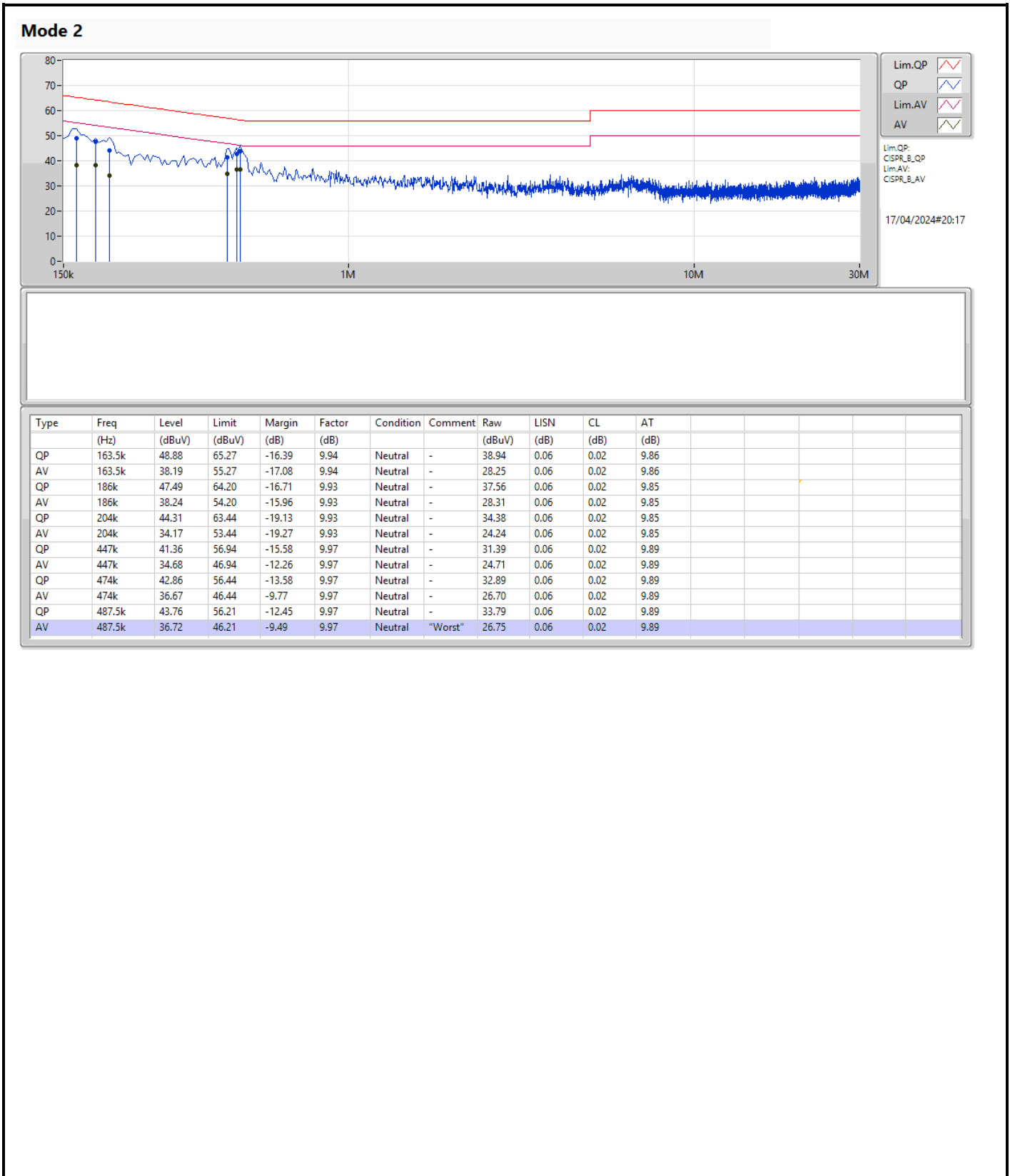
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	487.5k	37.86	46.21	-8.35	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	22.935M	17.043M	17M0D1D	20.625M	16.541M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	24.365M	19.171M	19M2D1D	20.405M	18.905M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	64.9M	38.064M	38M1D1D	40.37M	37.68M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	88.22M	77.39M	77M4D1D	80.96M	77.148M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	80.56M	77.333M	77M3D1D	79.92M	76.917M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.155M	16.875M	16M9D1D	20.35M	16.474M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.66M	19.159M	19M2D1D	20.405M	18.894M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	47.63M	37.876M	37M9D1D	39.27M	37.537M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	85.36M	77.391M	77M4D1D	80.52M	77.017M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	81.04M	77.42M	77M4D1D	79.92M	77.016M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22M	16.965M	17M0D1D	15.045M	13.249M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	22.44M	19.282M	19M3D1D	15.285M	14.432M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	46.75M	37.872M	37M9D1D	34.475M	33.592M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	93.94M	77.388M	77M4D1D	74.7M	73.156M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	161.92M	156.904M	157MD1D	161.92M	155.128M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.555M	17.047M	17M0D1D	3.14M	3.803M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	19.14M	19.143M	19M1D1D	4.48M	4.51M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	38.06M	38M	38M0D1D	3.46M	4.034M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	77.88M	77.41M	77M4D1D	75.68M	77.118M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.935M	16.541M	20.625M	16.725M	20.79M	16.914M	20.9M	16.63M
5200MHz	Pass	Inf	20.79M	17.043M	20.845M	16.669M	20.625M	16.845M	21.34M	16.635M
5240MHz	Pass	Inf	22.385M	16.72M	20.625M	16.733M	21.67M	16.543M	20.79M	16.585M
5260MHz	Pass	Inf	20.9M	16.484M	21.23M	16.693M	20.845M	16.548M	21.285M	16.724M
5300MHz	Pass	Inf	20.35M	16.474M	21.01M	16.63M	21.285M	16.875M	21.12M	16.672M
5320MHz	Pass	Inf	21.615M	16.549M	22M	16.821M	23.155M	16.516M	21.34M	16.672M
5500MHz	Pass	Inf	22M	16.662M	21.615M	16.94M	21.78M	16.894M	21.505M	16.869M
5580MHz	Pass	Inf	20.9M	16.619M	21.12M	16.649M	20.735M	16.965M	21.175M	16.658M
5700MHz	Pass	Inf	20.24M	16.608M	20.955M	16.593M	20.845M	16.702M	20.955M	16.533M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.045M	13.249M	15.24M	13.27M	15.21M	13.495M	15.525M	13.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.826M	3.22M	3.803M	3.22M	4.08M	3.24M	3.954M
5745MHz	Pass	500k	16.5M	16.751M	16.445M	16.923M	16.06M	17.047M	16.445M	16.98M
5785MHz	Pass	500k	16.5M	16.799M	16.5M	16.75M	16.335M	17.018M	16.5M	16.651M
5825MHz	Pass	500k	16.555M	16.969M	16.555M	16.526M	16.555M	16.658M	16.555M	16.515M
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.595M	19.048M	24.365M	19.086M	22M	19.048M	22.22M	19.171M
5200MHz	Pass	Inf	21.725M	19.019M	21.505M	18.99M	20.9M	18.991M	21.505M	18.905M
5240MHz	Pass	Inf	20.9M	19.002M	21.285M	19.057M	21.23M	19.085M	20.405M	19.021M
5260MHz	Pass	Inf	21.01M	19.041M	20.9M	19.159M	20.9M	19.143M	21.23M	19.032M
5300MHz	Pass	Inf	20.9M	19.043M	20.515M	18.897M	20.9M	18.945M	20.405M	18.894M
5320MHz	Pass	Inf	22.66M	19.062M	21.89M	19.067M	20.845M	19.063M	22.55M	19.004M
5500MHz	Pass	Inf	22.055M	19.042M	22.44M	19.049M	21.285M	19.049M	21.835M	19.282M
5580MHz	Pass	Inf	20.845M	18.961M	21.23M	19.078M	21.12M	19.087M	20.845M	18.991M
5700MHz	Pass	Inf	21.12M	18.98M	21.065M	18.924M	20.405M	18.986M	21.34M	18.849M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.54M	14.517M	15.285M	14.465M	15.51M	14.432M	15.36M	14.44M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.51M	4.5M	4.529M	4.56M	4.536M	4.48M	4.526M
5745MHz	Pass	500k	19.03M	19.143M	19.085M	19.074M	17.71M	19.091M	19.14M	19.064M
5785MHz	Pass	500k	19.085M	19.103M	19.085M	18.994M	19.085M	19.123M	19.03M	18.98M
5825MHz	Pass	500k	18.865M	19.019M	19.085M	18.996M	19.085M	19.04M	18.975M	18.999M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.37M	37.783M	45.98M	37.728M	42.13M	37.749M	46.2M	37.68M
5230MHz	Pass	Inf	48.4M	38.064M	48.84M	37.878M	64.9M	37.928M	44M	37.858M
5270MHz	Pass	Inf	39.49M	37.537M	39.27M	37.666M	39.38M	37.81M	39.49M	37.661M
5310MHz	Pass	Inf	43.34M	37.657M	47.63M	37.876M	43.67M	37.768M	40.37M	37.863M
5510MHz	Pass	Inf	46.75M	37.844M	45.98M	37.793M	40.26M	37.685M	42.46M	37.83M
5550MHz	Pass	Inf	38.94M	37.668M	39.71M	37.872M	39.27M	37.627M	39.82M	37.668M
5670MHz	Pass	Inf	38.94M	37.62M	39.27M	37.765M	39.05M	37.798M	39.16M	37.637M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.825M	33.654M	35.07M	33.592M	34.475M	33.777M	34.86M	33.6M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	4.04M	3.46M	4.034M	4.02M	4.048M	3.98M	4.042M
5755MHz	Pass	500k	37.73M	37.609M	37.07M	37.86M	37.84M	38M	38.06M	37.628M
5795MHz	Pass	500k	35.53M	37.74M	37.84M	37.923M	38.06M	37.612M	38.06M	37.846M
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.18M	77.39M	88.22M	77.32M	80.96M	77.148M	83.6M	77.383M
5290MHz	Pass	Inf	83.82M	77.017M	81.4M	77.301M	85.36M	77.391M	80.52M	77.254M
5530MHz	Pass	Inf	86.46M	77.379M	83.6M	77.018M	84.7M	77.244M	93.94M	77.388M
5610MHz	Pass	Inf	79.86M	77.193M	80.08M	77.23M	80.3M	77.152M	80.3M	77.322M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.7M	73.31M	75.075M	73.522M	75M	73.156M	75.6M	73.409M
5690MHz Straddle 5.725-5.85GHz										
5775MHz	Pass	500k	77.44M	77.41M	75.9M	77.356M	75.68M	77.118M	77.88M	77.318M
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80M	76.917M	79.92M	77.271M	80.56M	77.108M	80.56M	77.333M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80M	77.016M	79.92M	77.167M	80M	77.42M	81.04M	77.188M
5570MHz	Pass	Inf	161.92M	155.128M	161.92M	156.429M	161.92M	156.904M	161.92M	156.179M

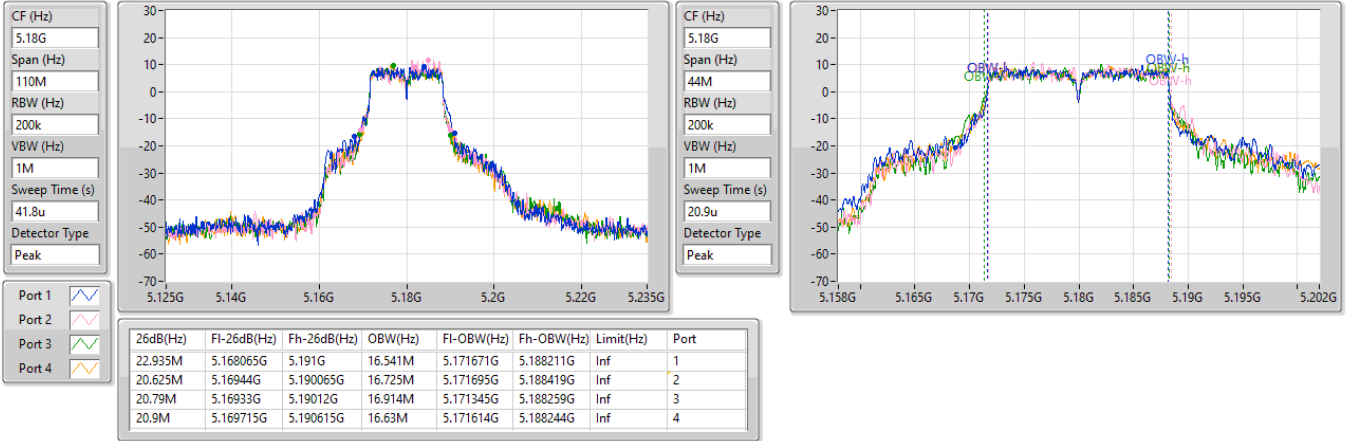
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5180MHz

08/05/2024

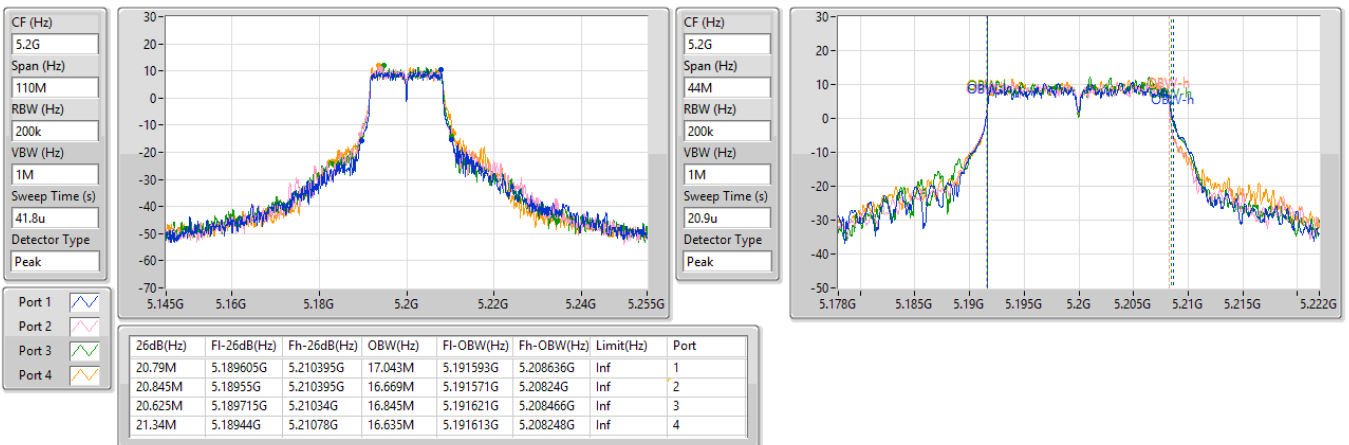


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

15/05/2024

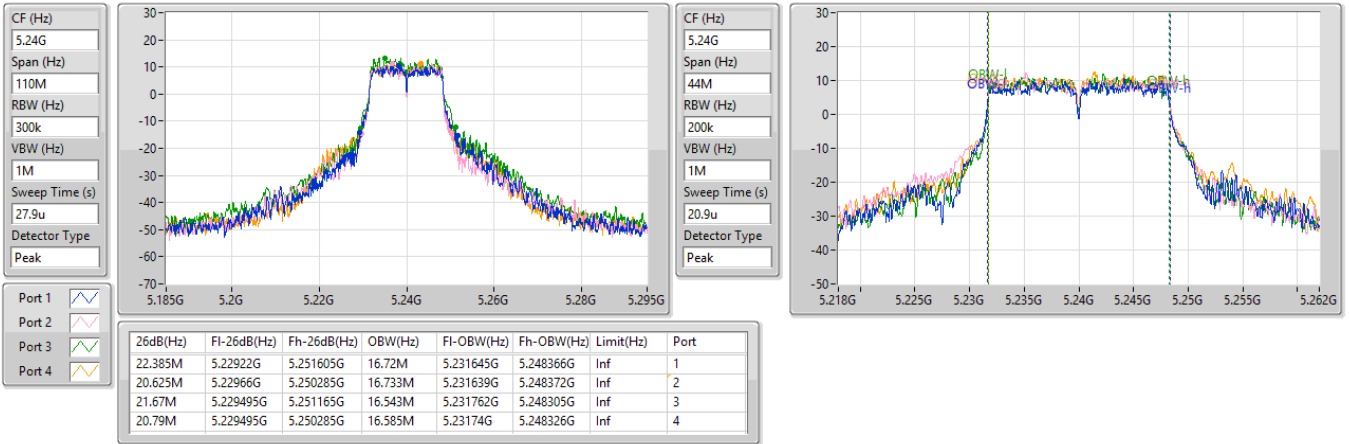


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

15/05/2024

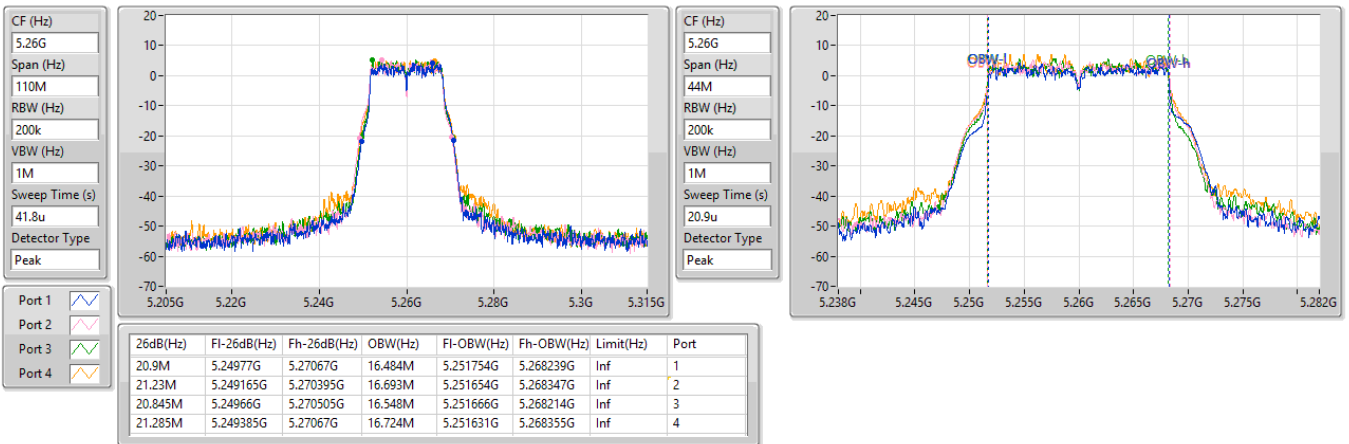


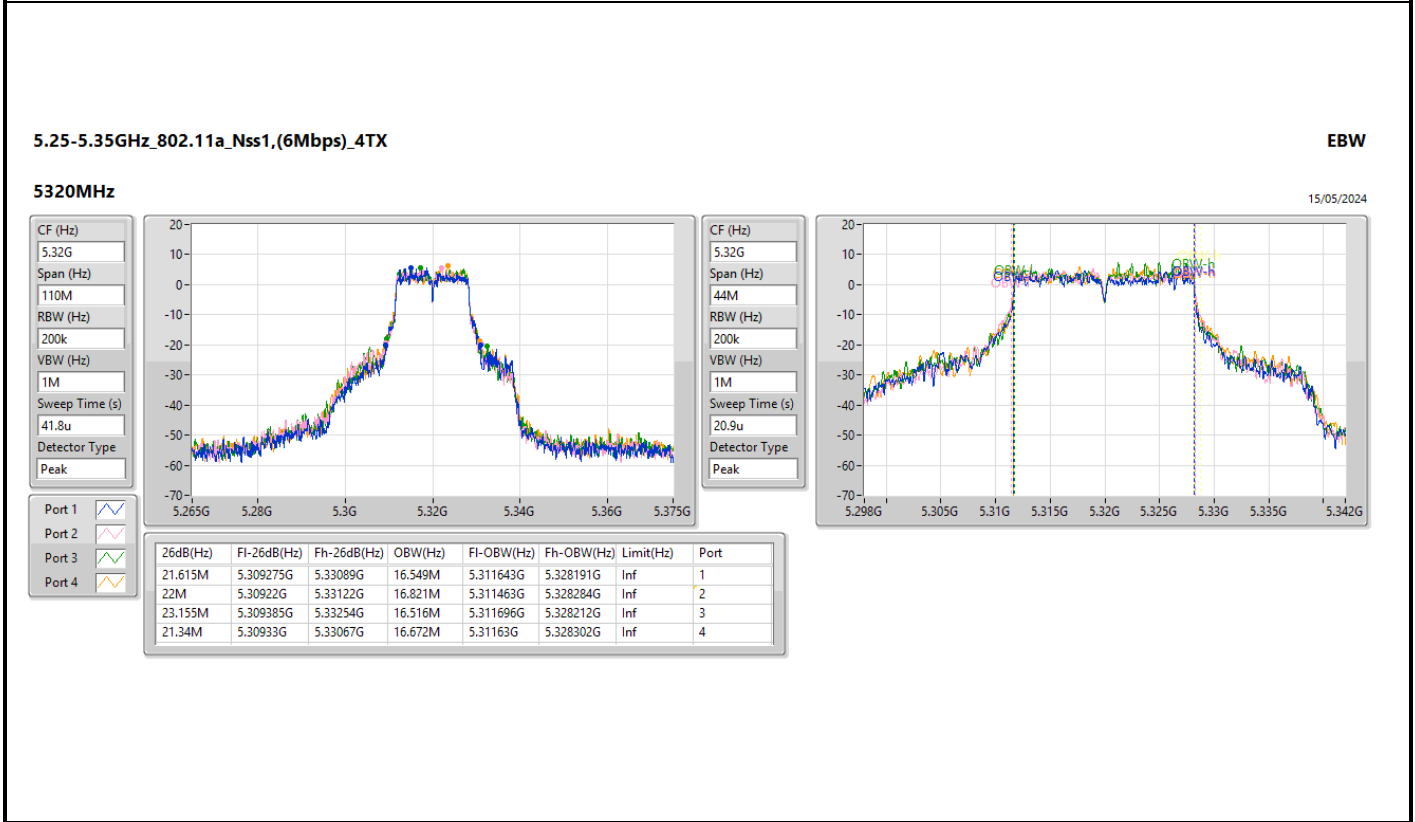
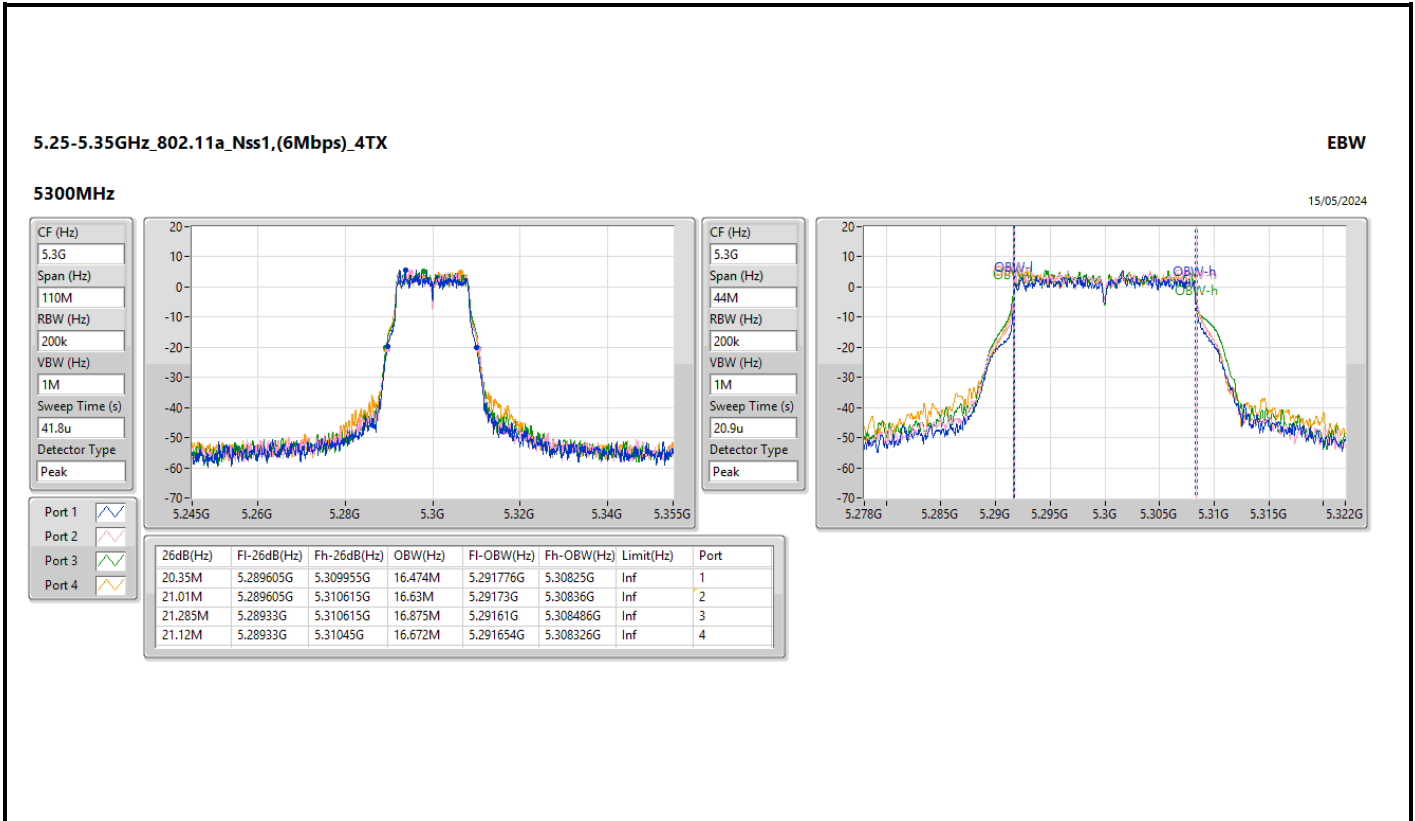
5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

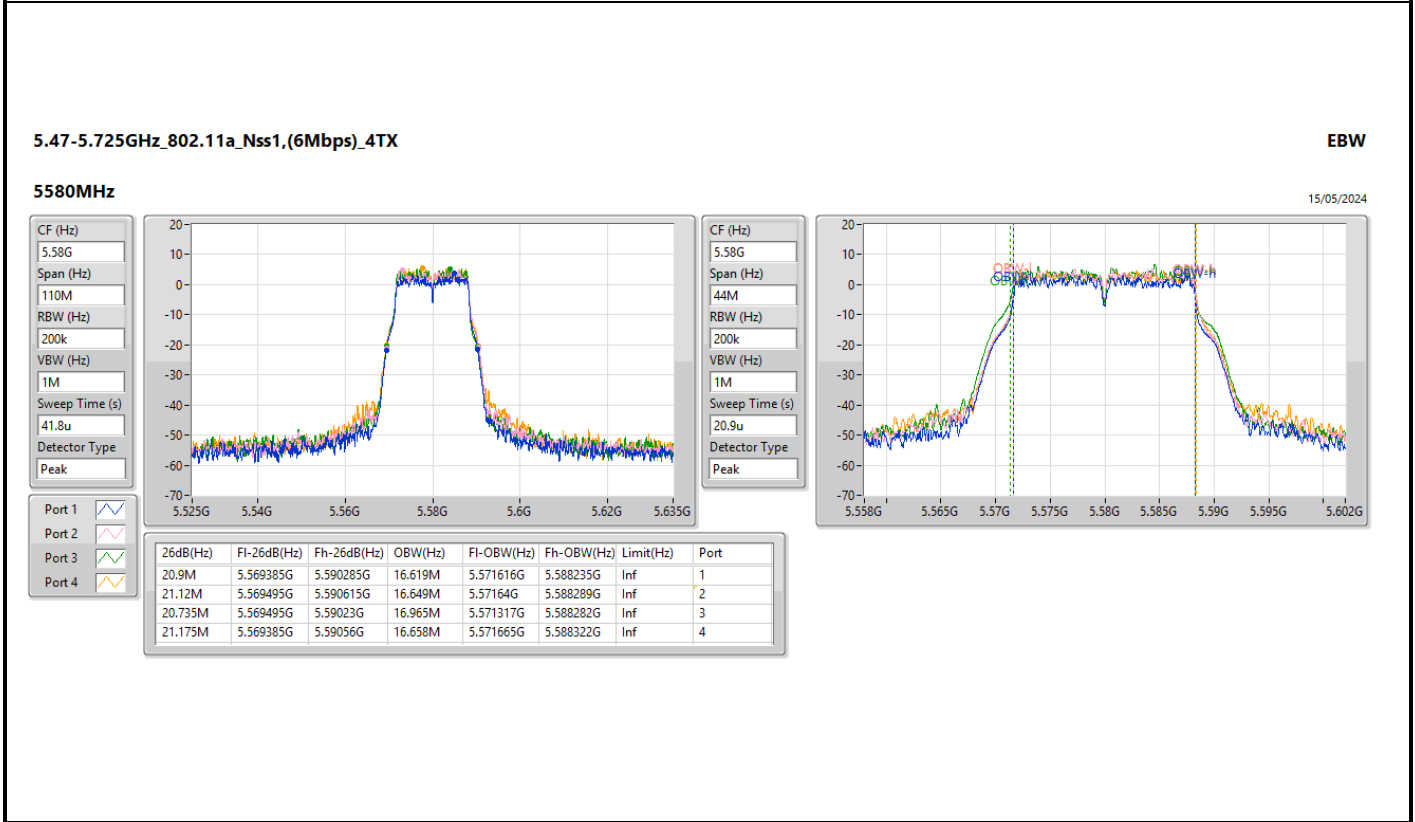
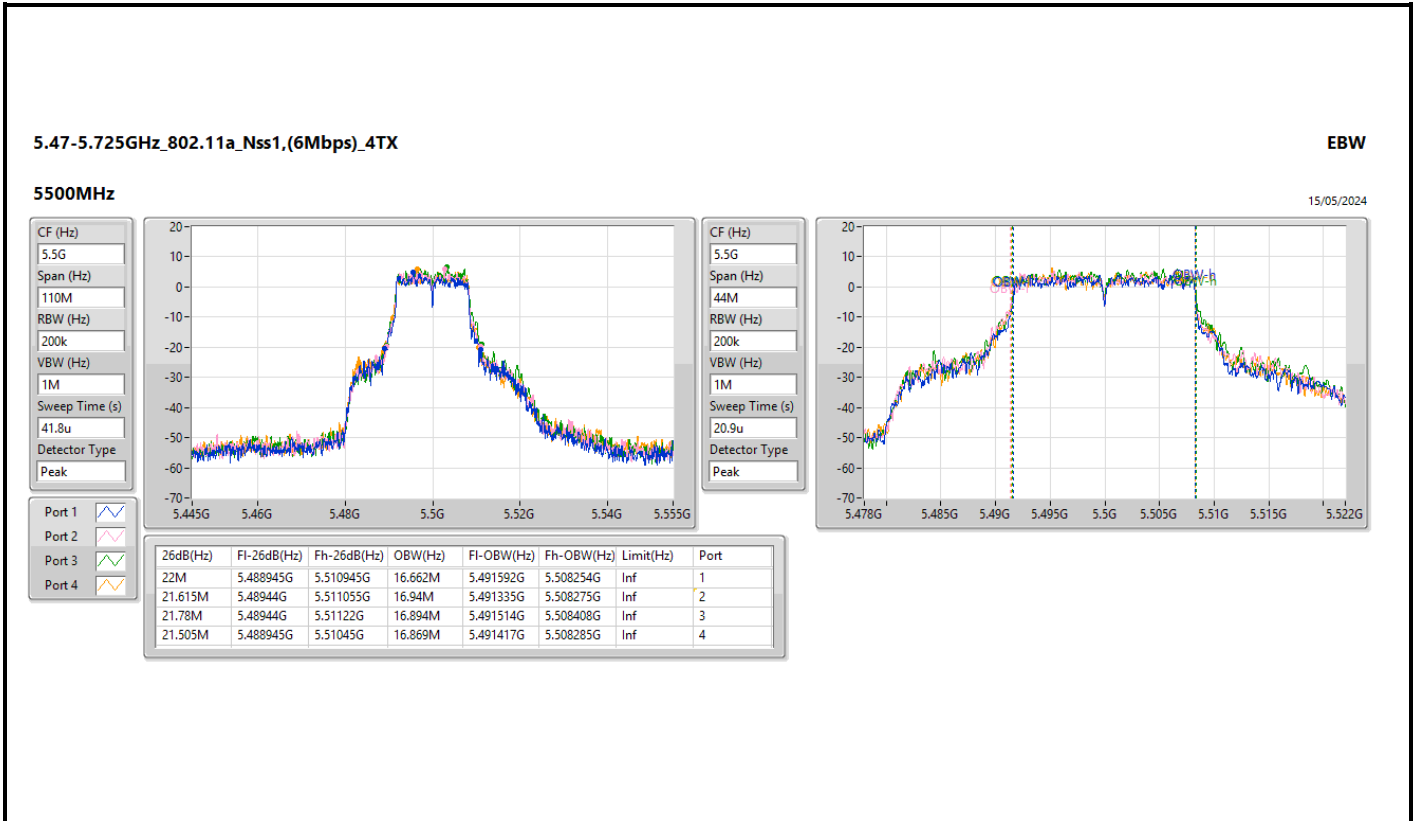
EBW

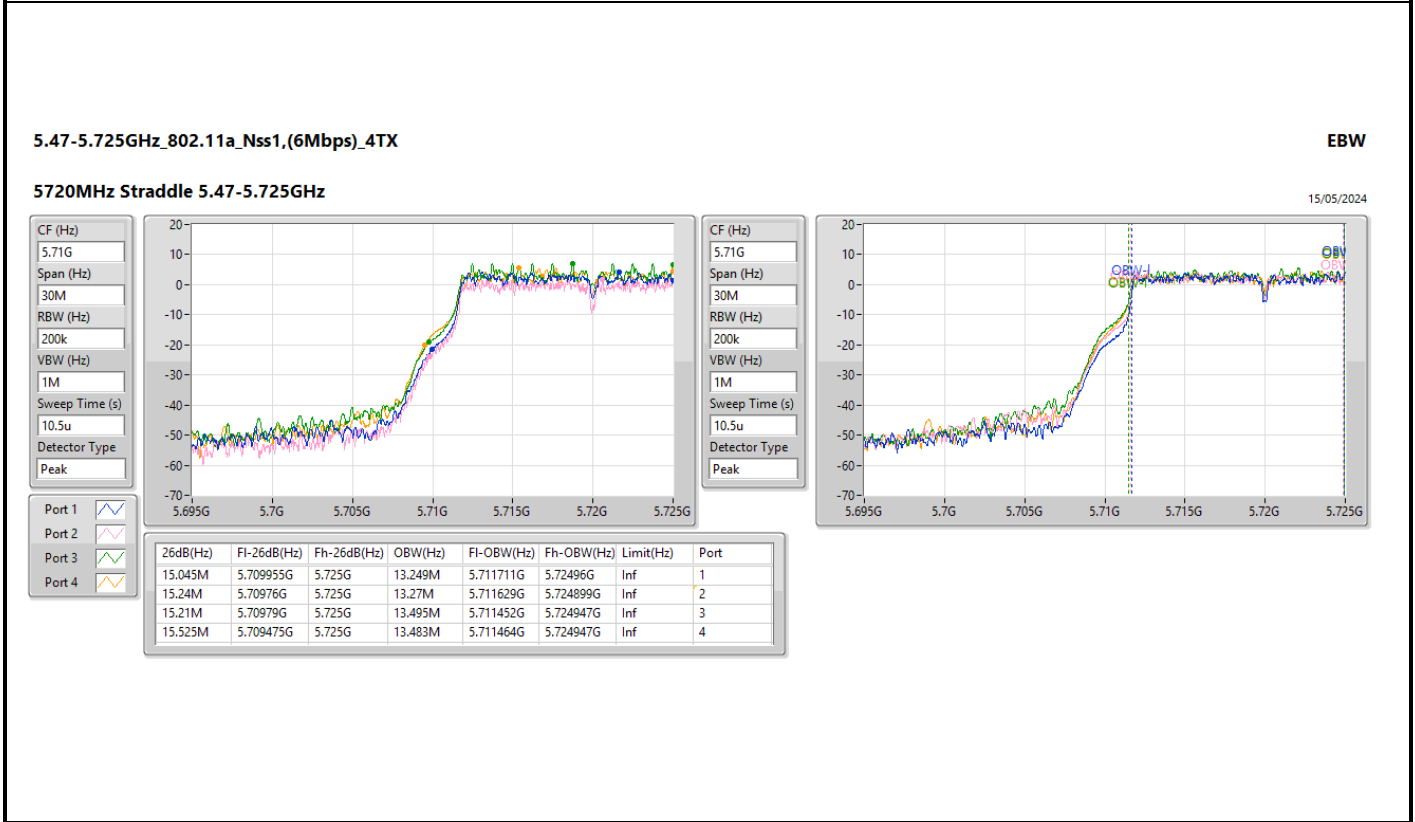
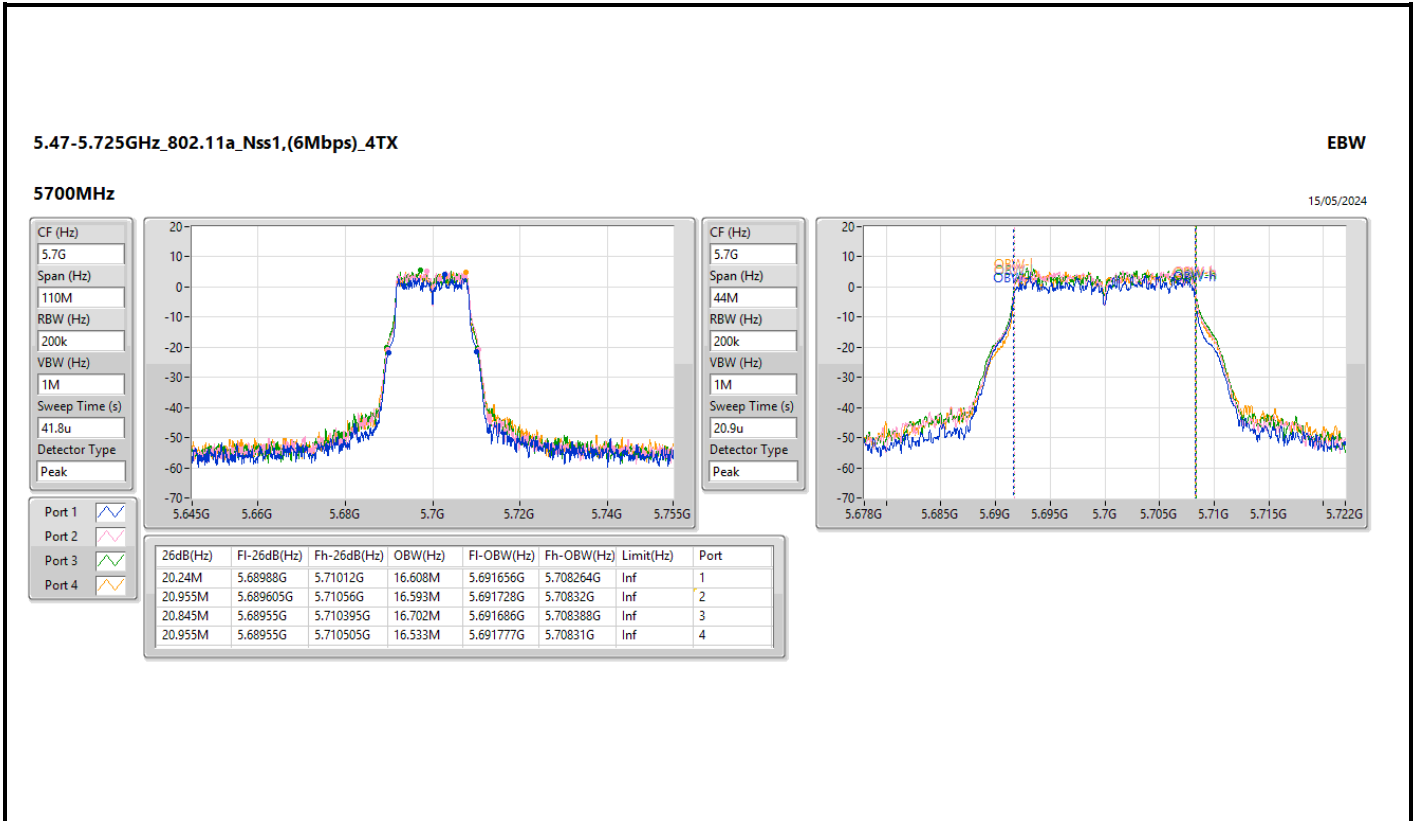
5260MHz

15/05/2024







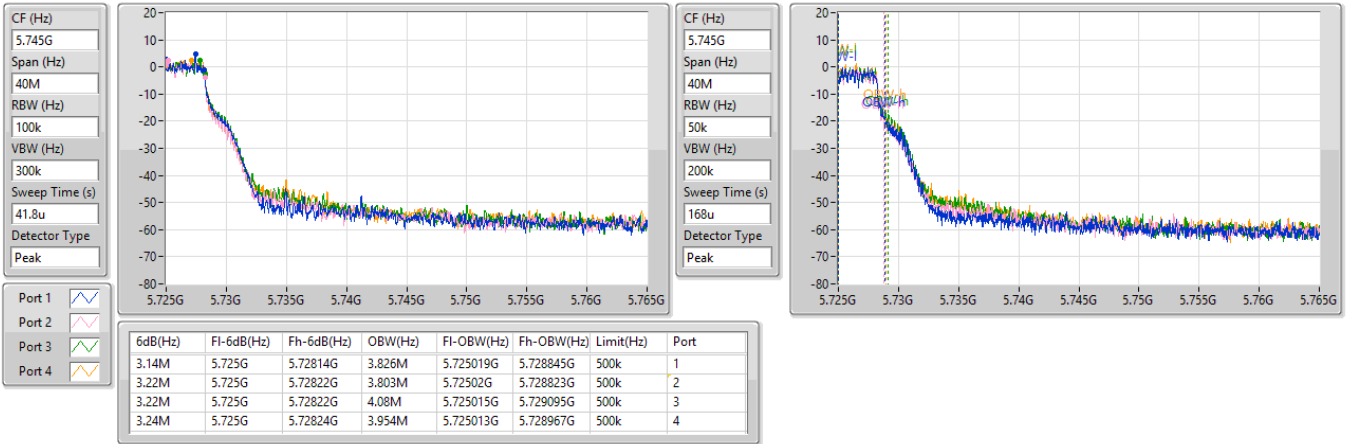


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/05/2024

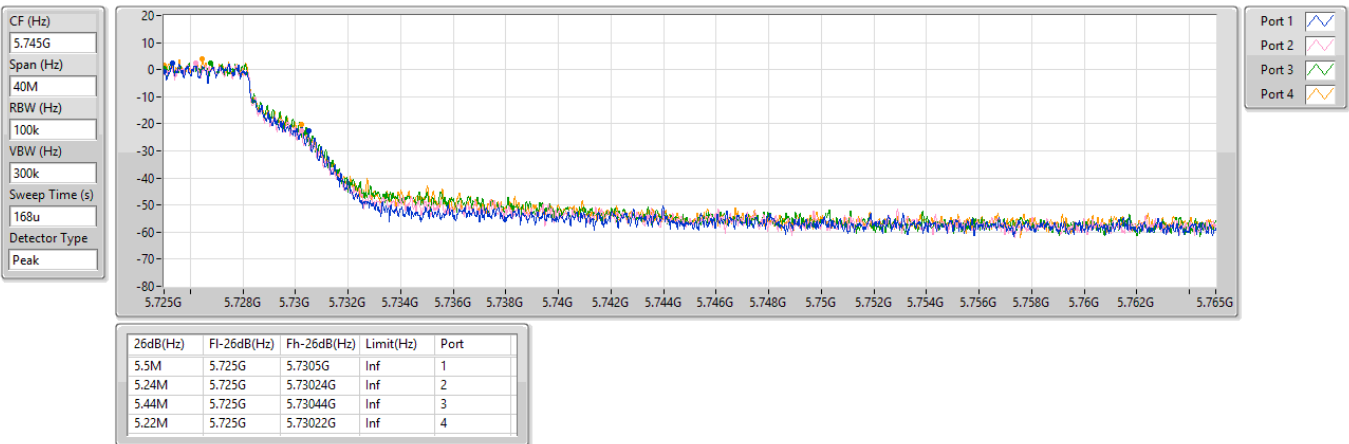


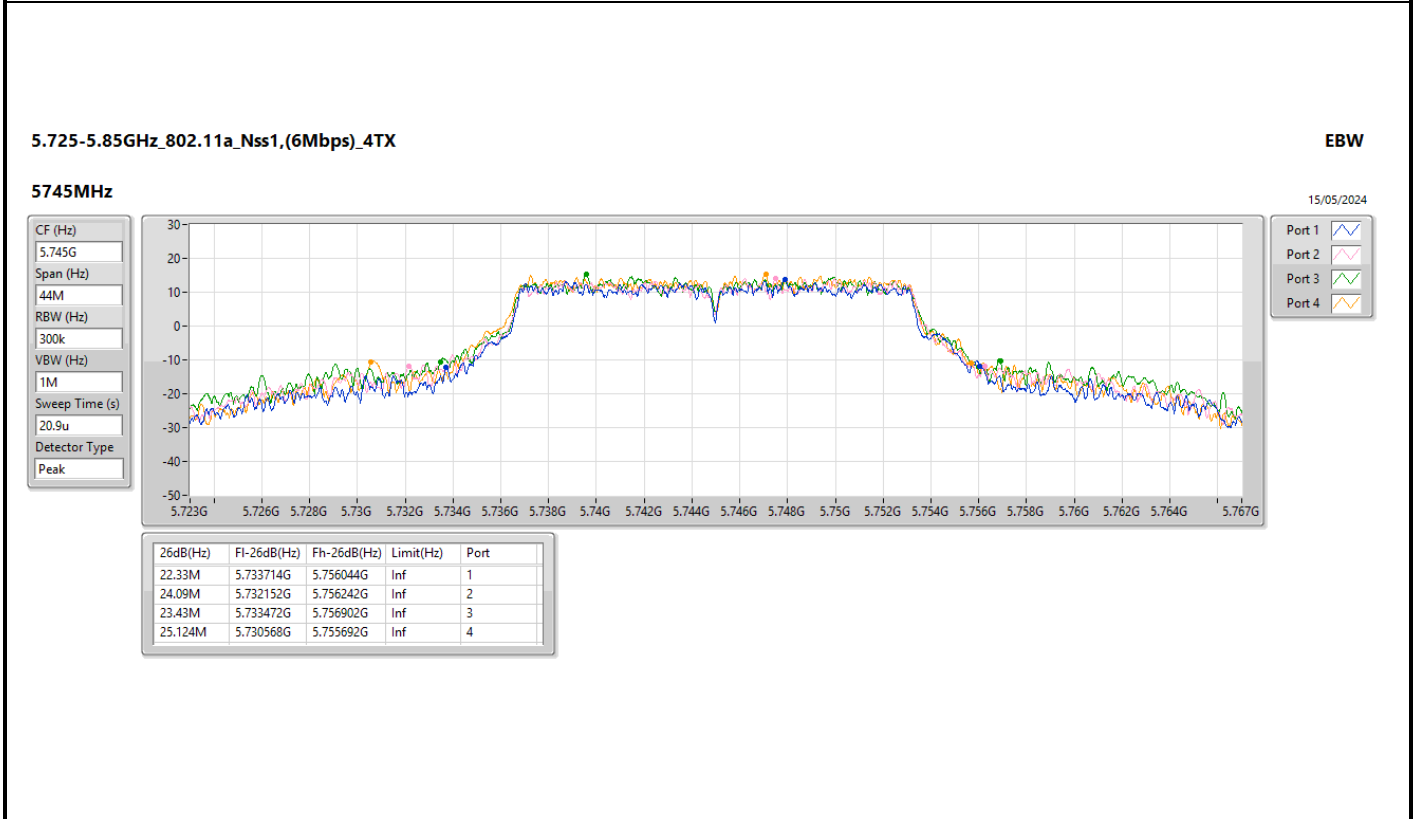
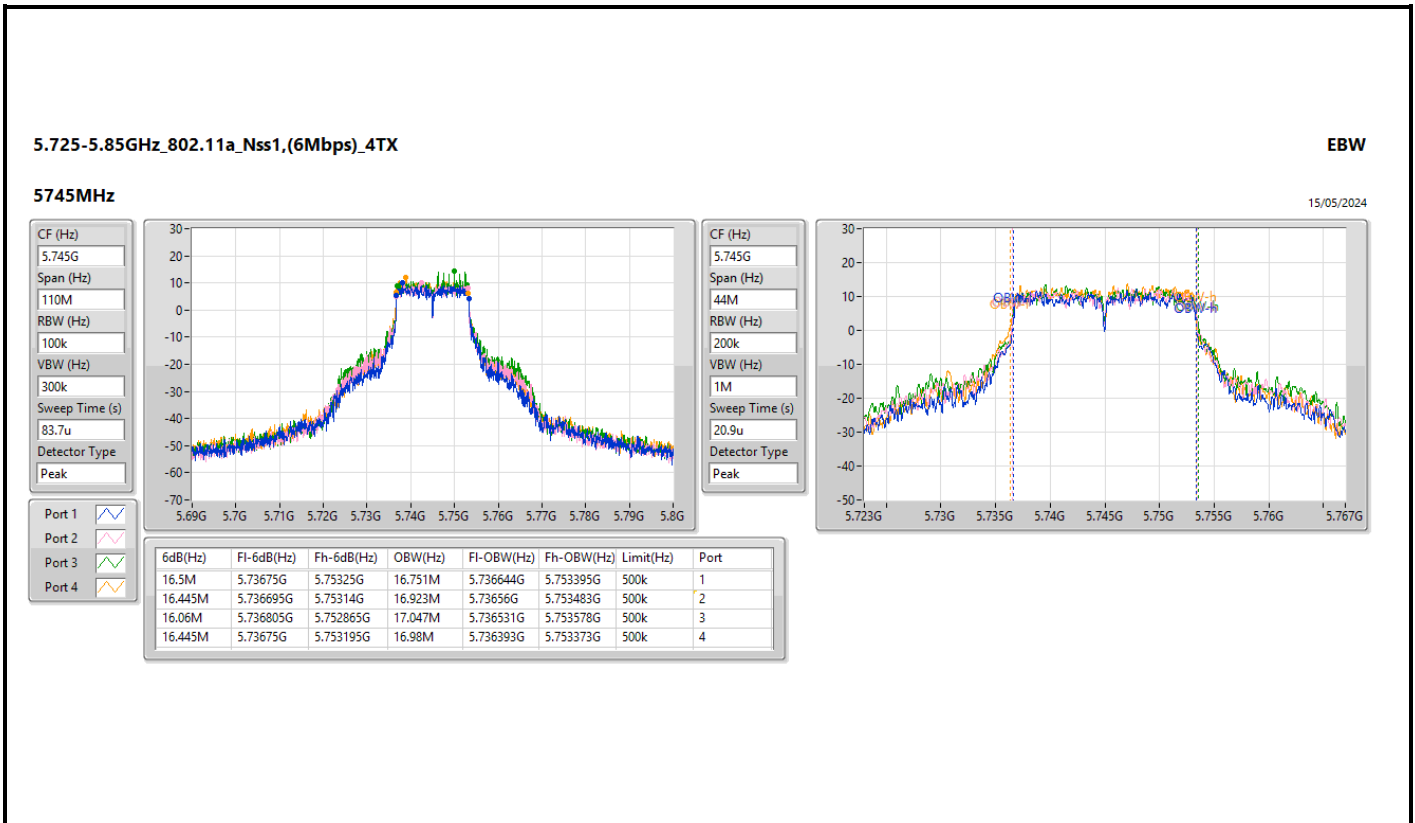
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

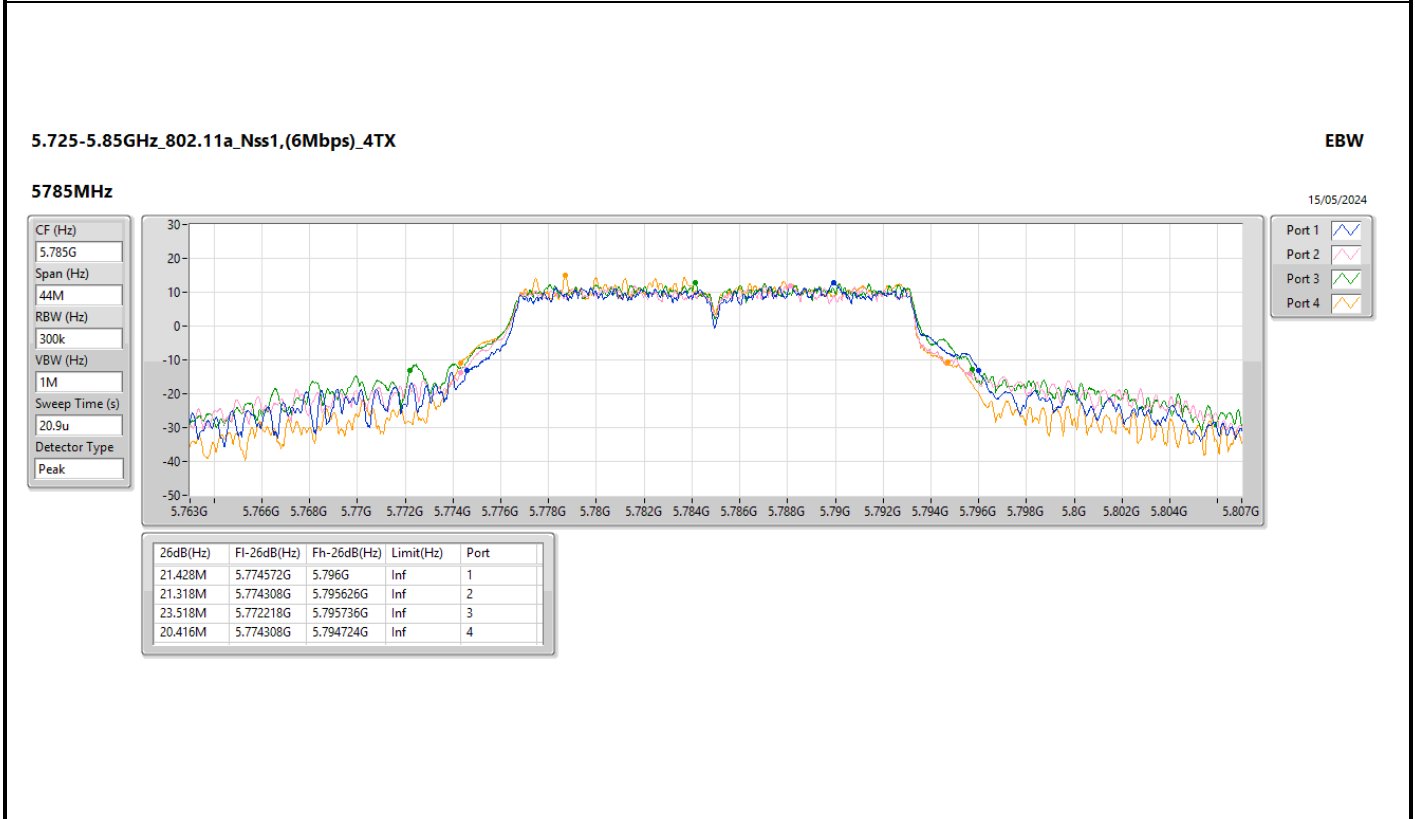
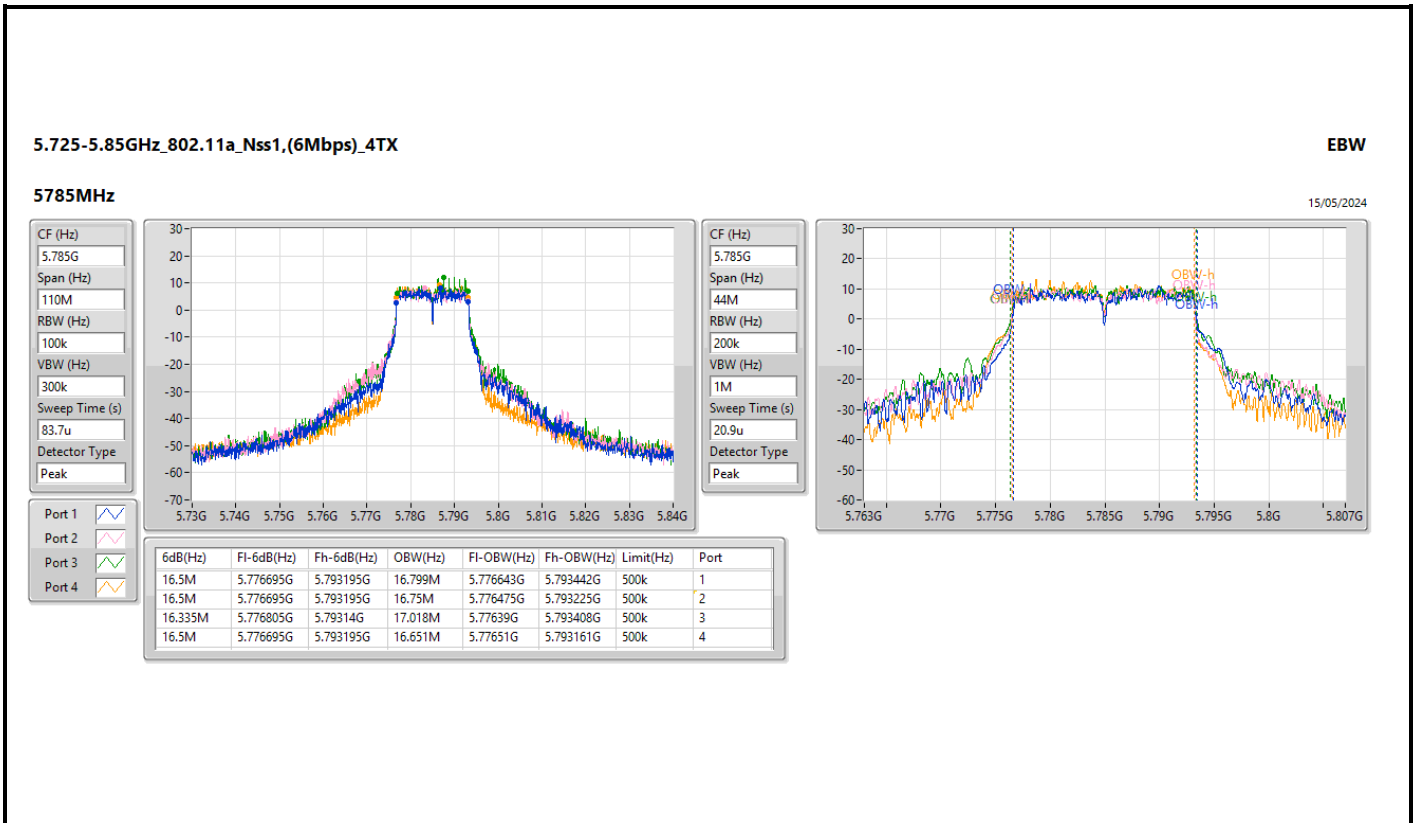
EBW

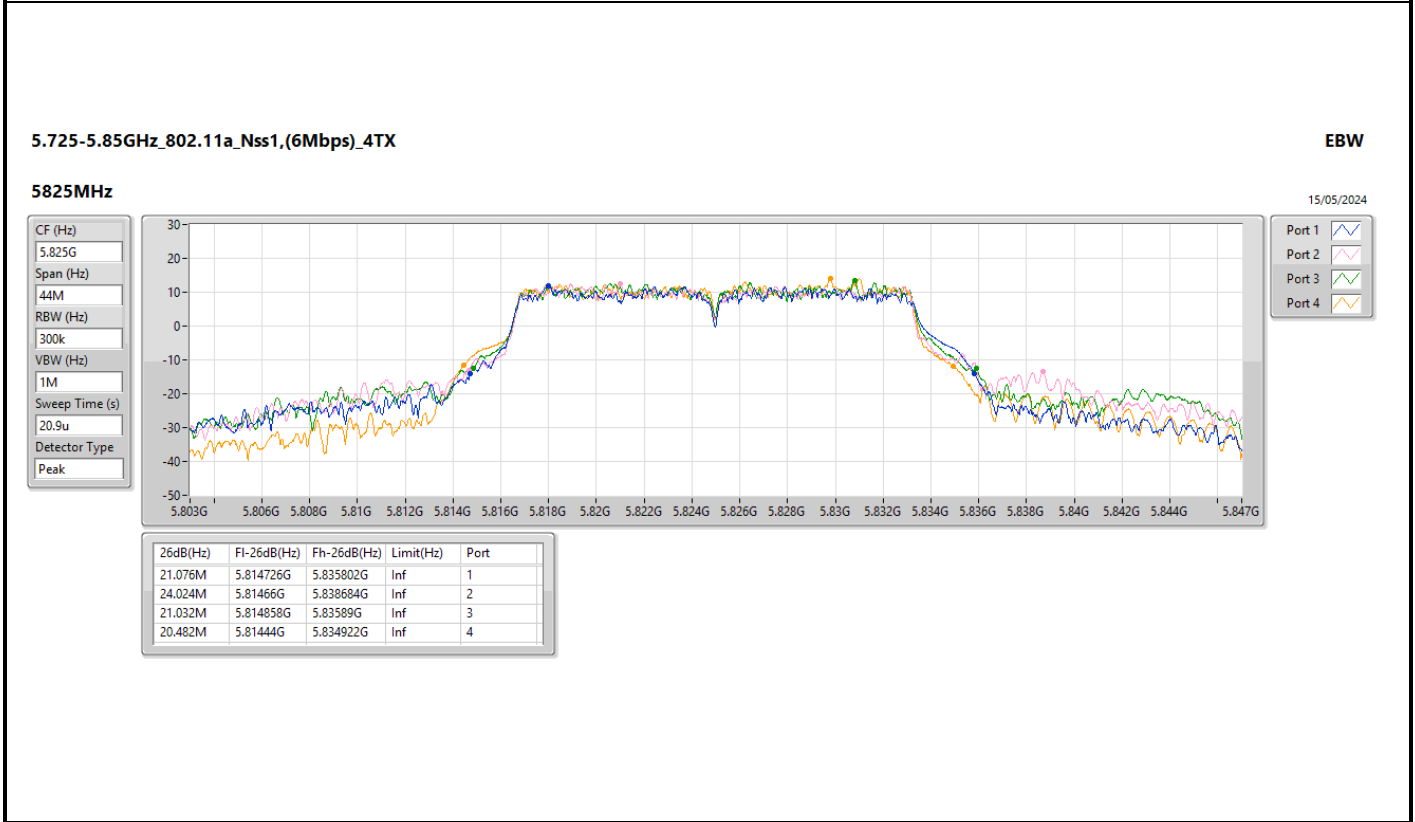
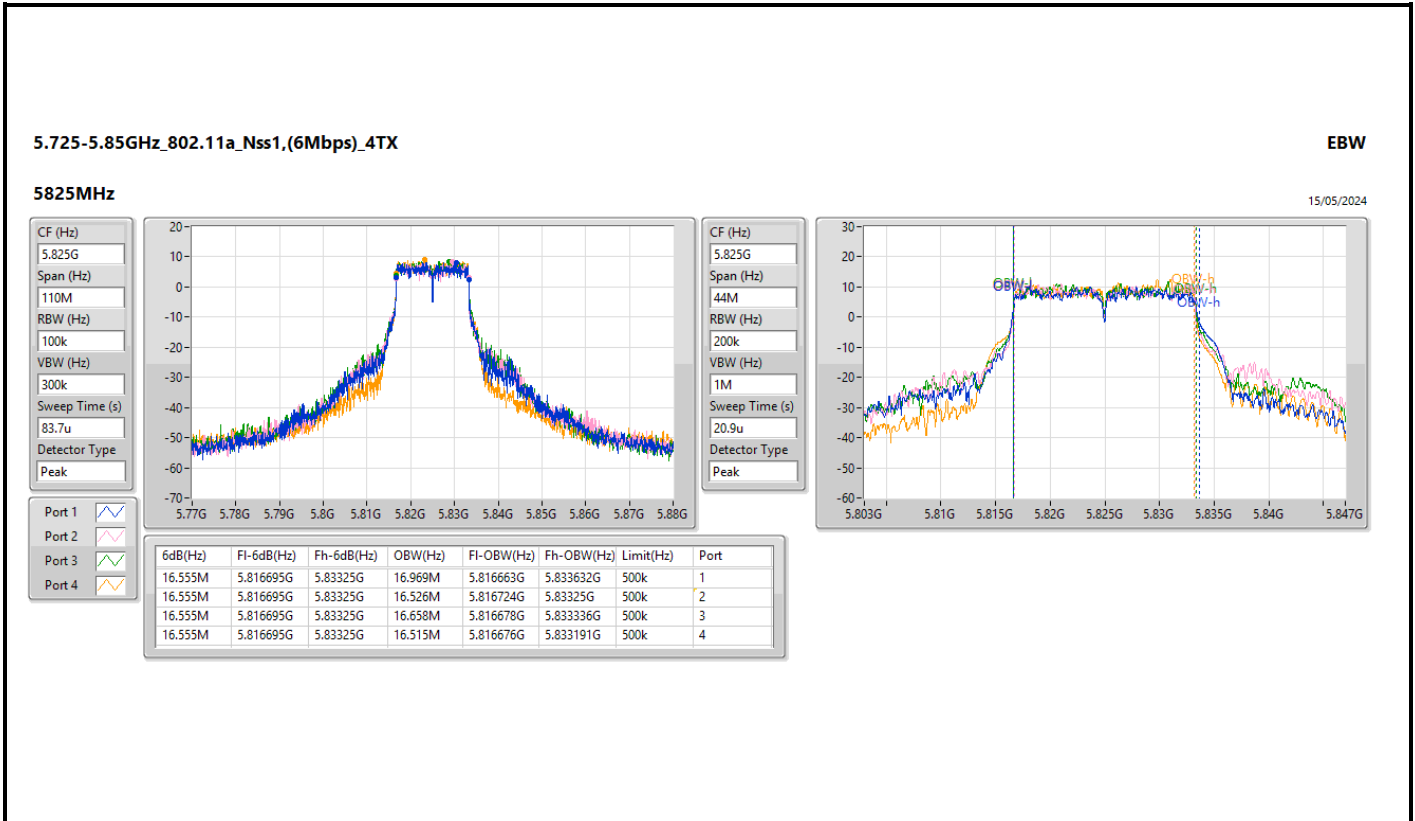
5720MHz Straddle 5.725-5.85GHz

15/05/2024







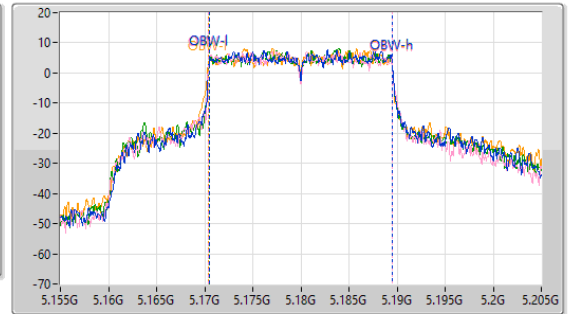
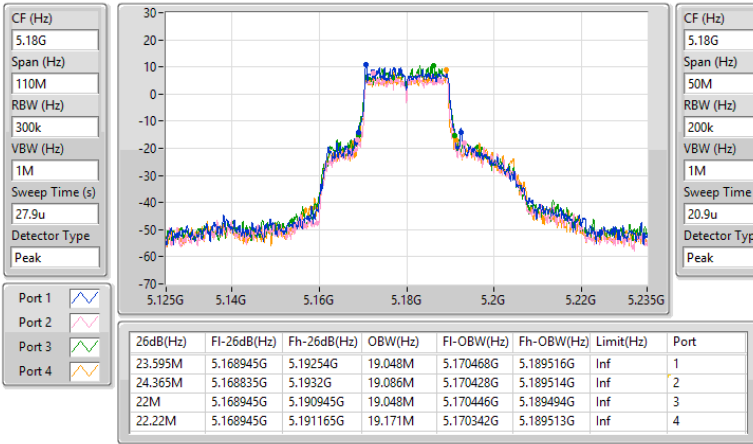


5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

21/05/2024

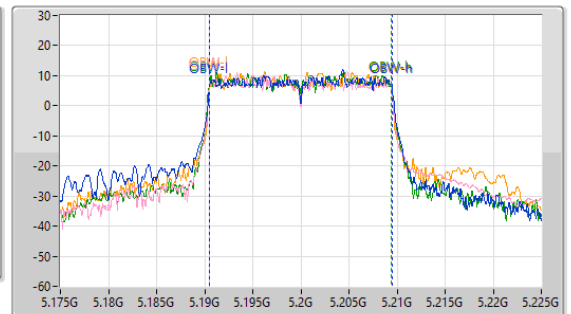
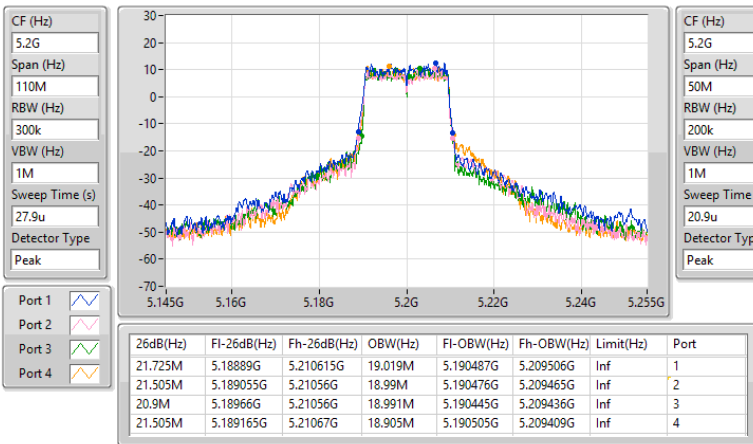


5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

15/05/2024

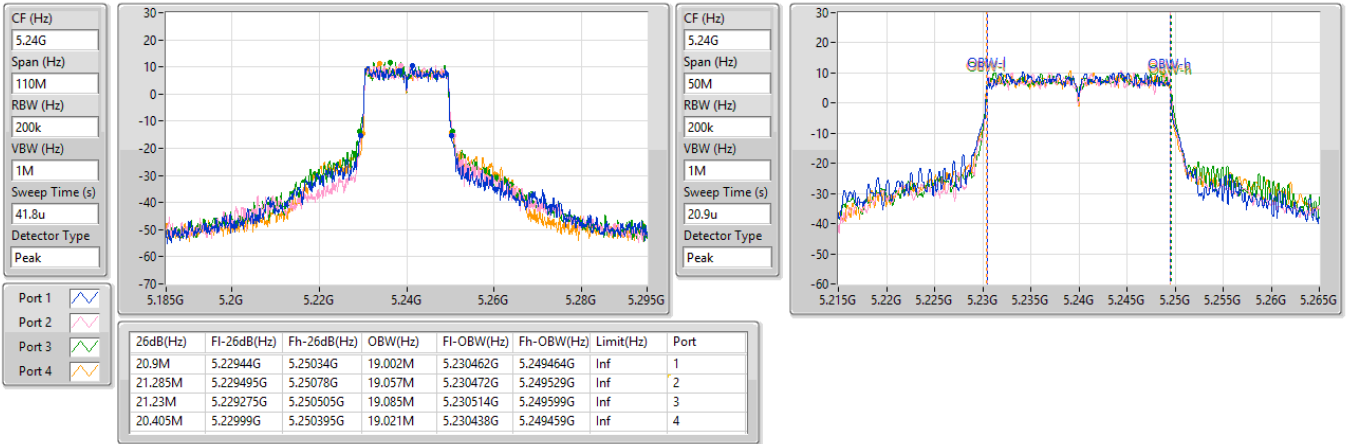


5.15-5.25GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

15/05/2024

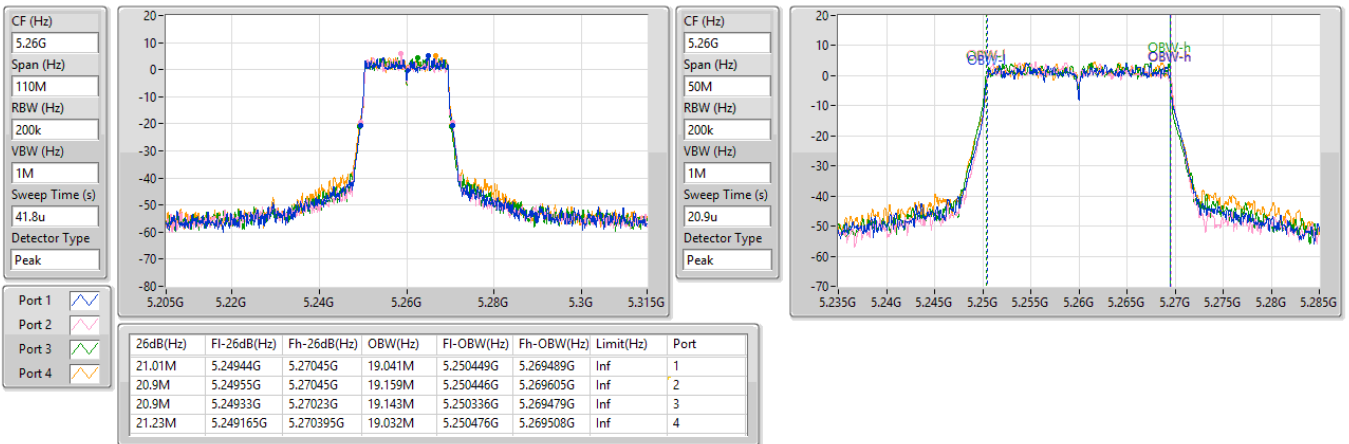


5.25-5.35GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

15/05/2024



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

EBW

5300MHz

15/05/2024

CF (Hz)
5.3G

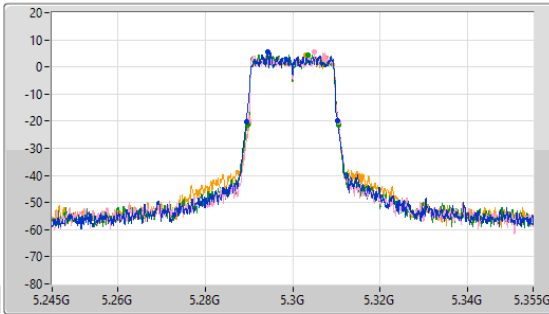
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.3G

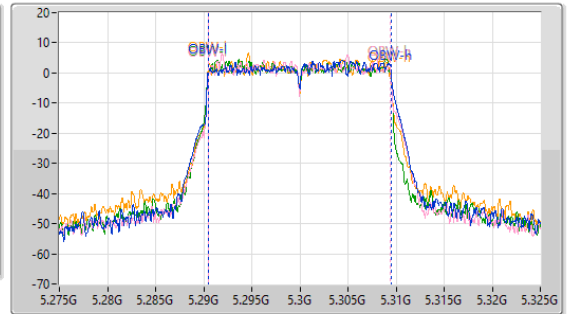
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.9M	5.289385G	5.310285G	19.043M	5.290485G	5.309528G	Inf	1
20.515M	5.289935G	5.31045G	18.897M	5.290546G	5.309443G	Inf	2
20.9M	5.289605G	5.310505G	18.945M	5.290483G	5.309428G	Inf	3
20.405M	5.290045G	5.31045G	18.894M	5.290487G	5.309382G	Inf	4

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

EBW

5320MHz

15/05/2024

CF (Hz)
5.32G

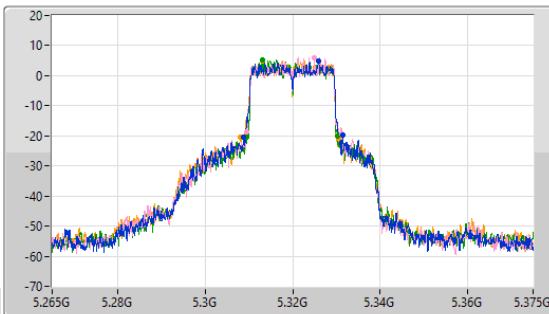
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.32G

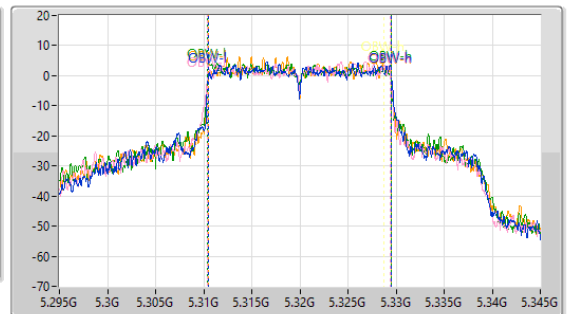
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.66M	5.308835G	5.331495G	19.062M	5.310487G	5.329549G	Inf	1
21.89M	5.309385G	5.331275G	19.067M	5.310372G	5.329439G	Inf	2
20.845M	5.30944G	5.330285G	19.063M	5.310416G	5.329479G	Inf	3
22.55M	5.30801G	5.33056G	19.004M	5.310507G	5.329511G	Inf	4

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

EBW

5500MHz

15/05/2024

CF (Hz)
5.5G

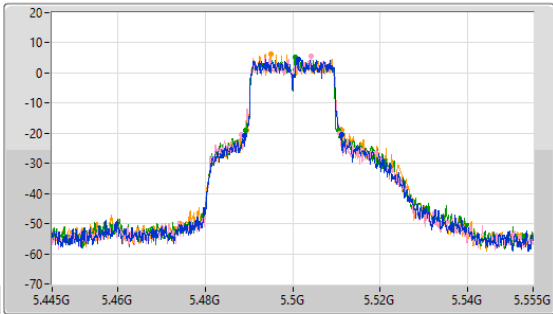
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.5G

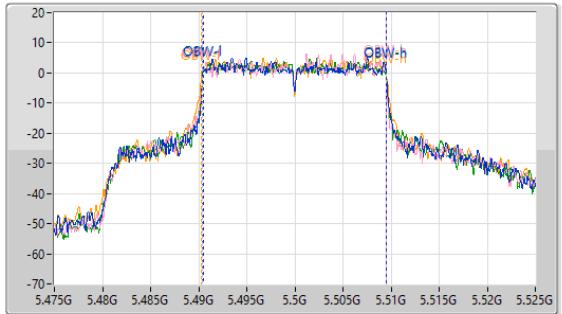
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.055M	5.48911G	5.511165G	19.042M	5.49045G	5.509492G	Inf	1
22.44M	5.48834G	5.51078G	19.049M	5.490418G	5.509467G	Inf	2
21.285M	5.489165G	5.51045G	19.049M	5.490431G	5.50948G	Inf	3
21.835M	5.48944G	5.511275G	19.282M	5.490277G	5.509559G	Inf	4

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

EBW

5580MHz

15/05/2024

CF (Hz)
5.58G

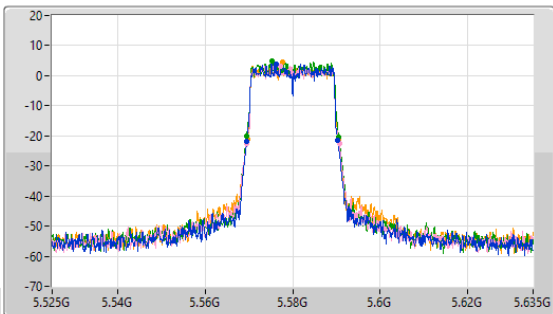
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.58G

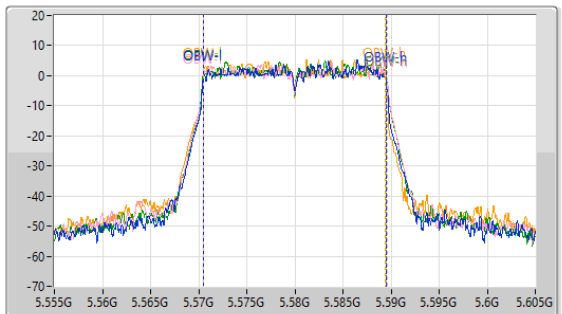
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.845M	5.569495G	5.59034G	18.961M	5.570494G	5.589455G	Inf	1
21.23M	5.56944G	5.59067G	19.078M	5.570484G	5.589562G	Inf	2
21.12M	5.56944G	5.59056G	19.087M	5.570464G	5.589551G	Inf	3
20.845M	5.56966G	5.590505G	18.991M	5.570456G	5.589448G	Inf	4

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

EBW

5700MHz

15/05/2024

CF (Hz)
5.7G

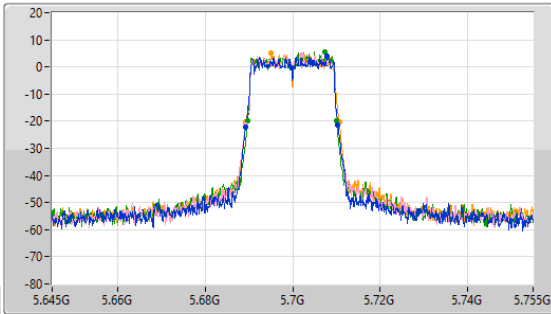
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.7G

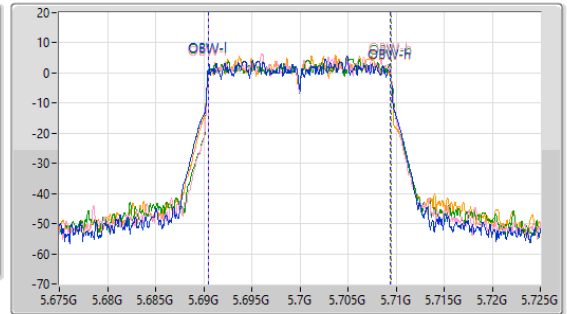
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.12M	5.689275G	5.710395G	18.98M	5.690453G	5.709434G	Inf	1
21.065M	5.689275G	5.71034G	18.924M	5.690545G	5.709469G	Inf	2
20.405M	5.689715G	5.71012G	18.986M	5.690495G	5.709481G	Inf	3
21.34M	5.68933G	5.71067G	18.849M	5.690522G	5.709371G	Inf	4

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

EBW

5720MHz Straddle 5.47-5.725GHz

15/05/2024

CF (Hz)
5.71G

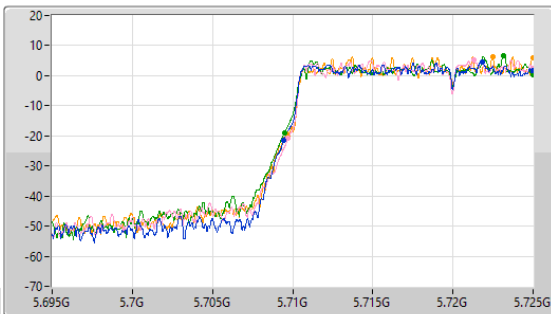
Span (Hz)
30M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
10.5u

Detector Type
Peak



CF (Hz)
5.71G

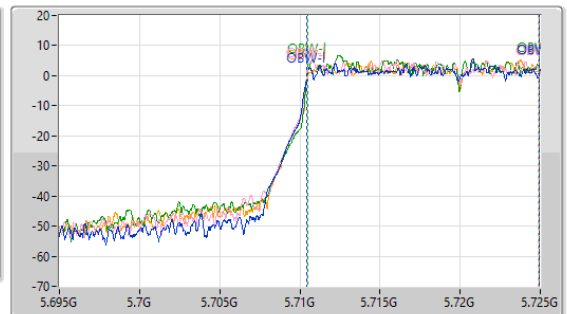
Span (Hz)
30M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
10.5u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

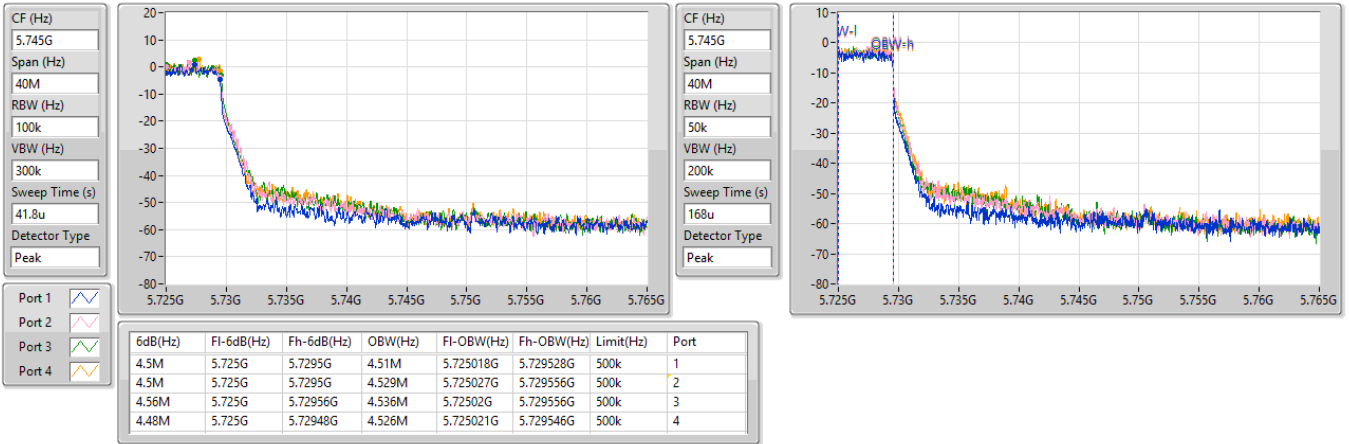
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.54M	5.70946G	5.725G	14.517M	5.710413G	5.72493G	Inf	1
15.285M	5.709715G	5.725G	14.465M	5.710433G	5.724897G	Inf	2
15.51M	5.70949G	5.725G	14.432M	5.710474G	5.724906G	Inf	3
15.36M	5.70964G	5.725G	14.44M	5.710473G	5.724912G	Inf	4

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

EBW

5720MHz Straddle 5.725-5.85GHz

15/05/2024

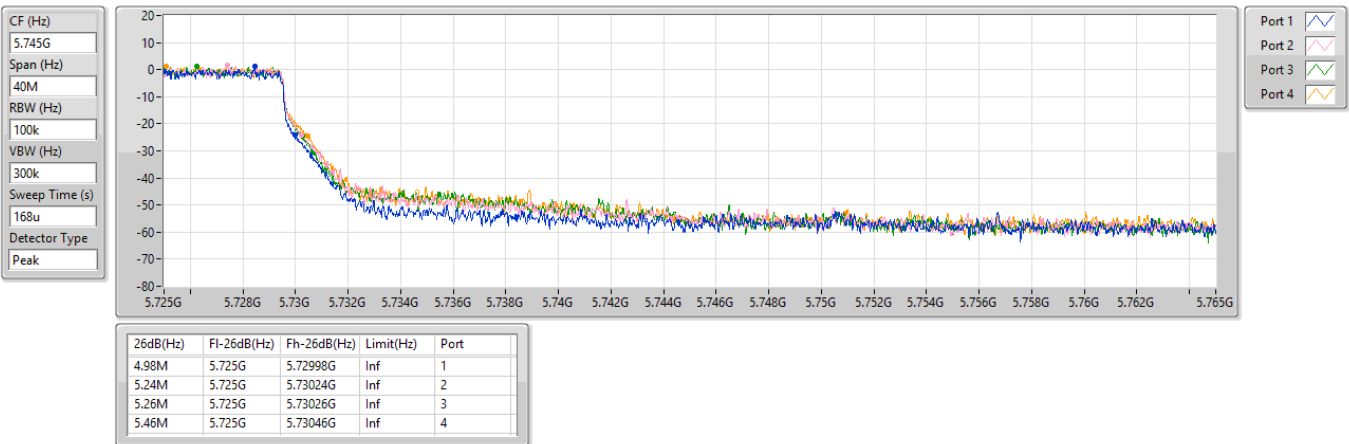


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

15/05/2024

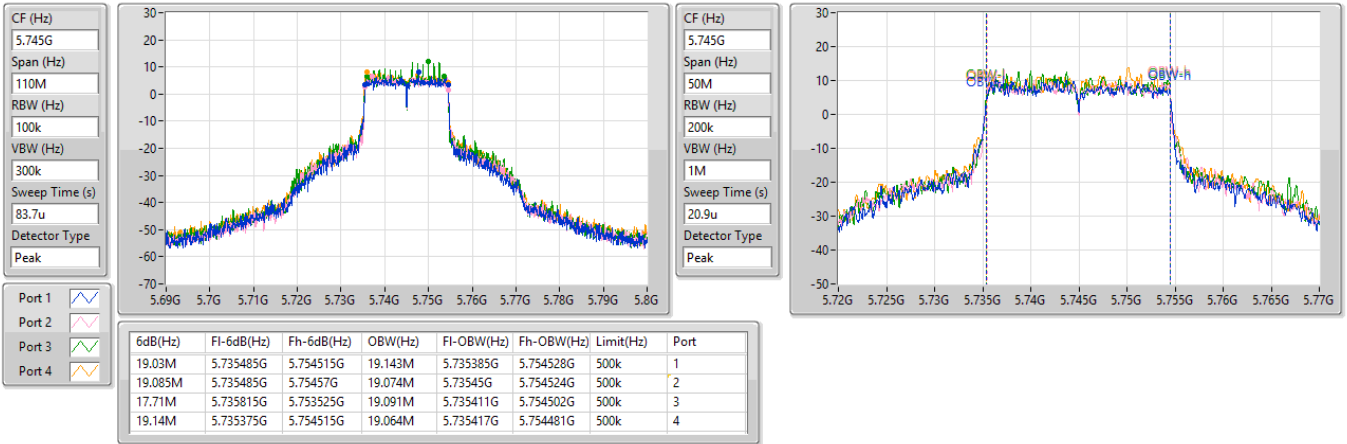


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

16/05/2024



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

EBW

5745MHz

16/05/2024

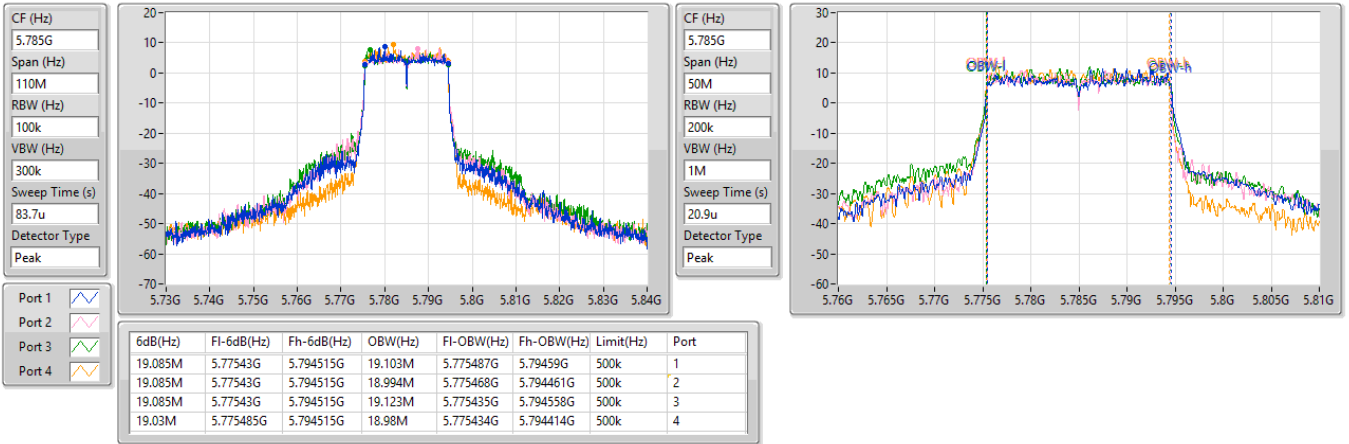


5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

16/05/2024



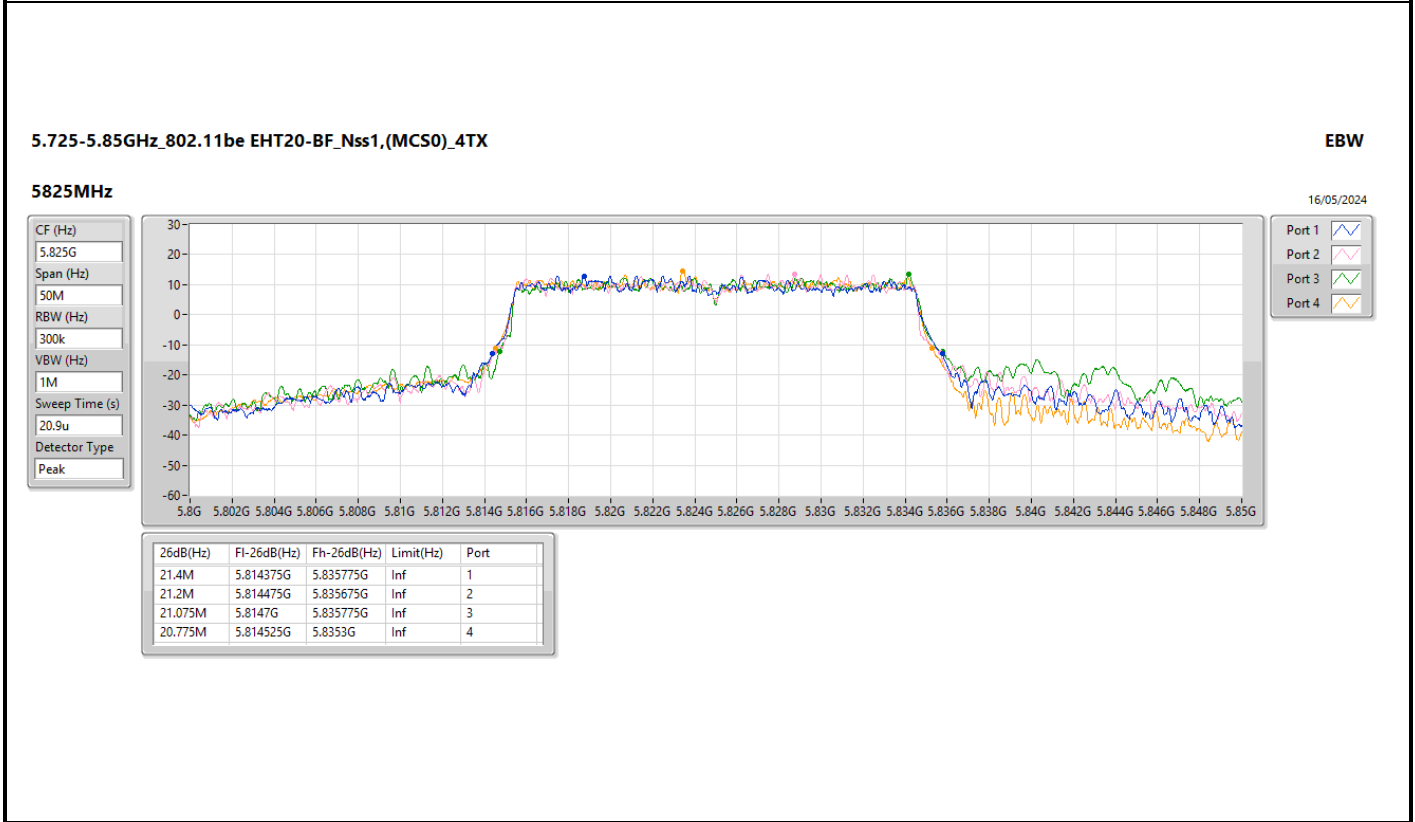
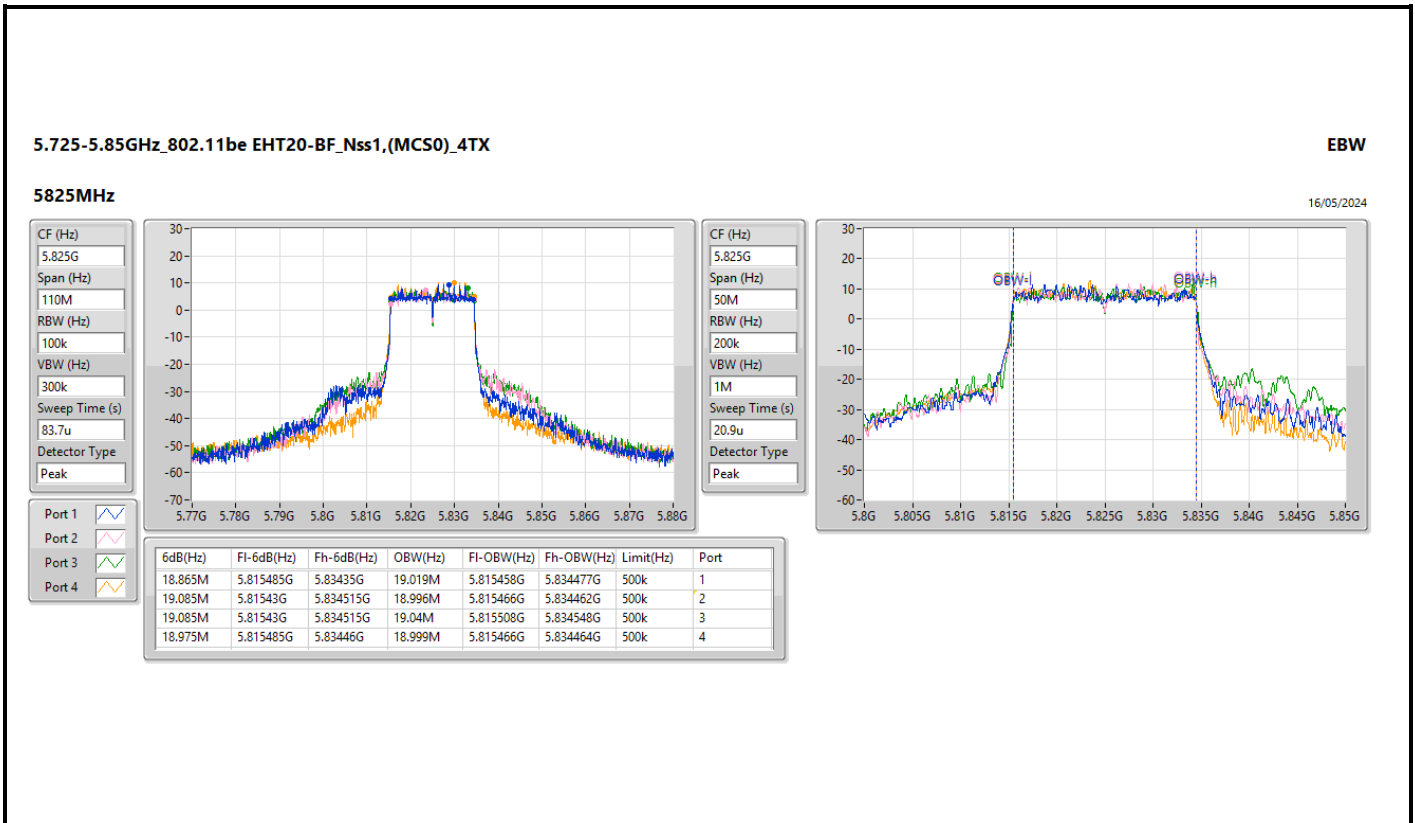
5.725-5.85GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

16/05/2024





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

EBW

5190MHz

21/05/2024

CF (Hz)
5.19G

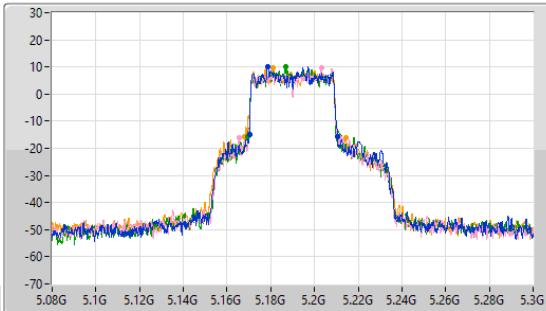
Span (Hz)
220M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
29.2u

Detector Type
Peak



CF (Hz)
5.19G

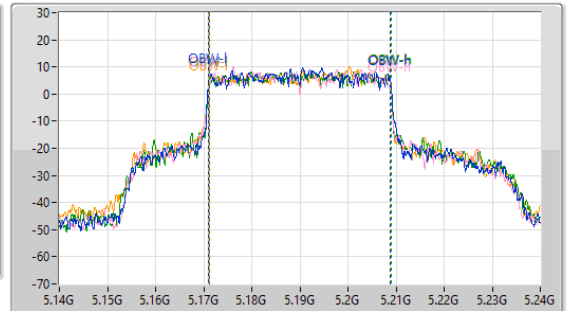
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.37M	5.1702G	5.21057G	37.783M	5.171092G	5.208875G	Inf	1
45.98M	5.16536G	5.21134G	37.728M	5.171051G	5.208779G	Inf	2
42.13M	5.16932G	5.21145G	37.749M	5.171161G	5.208909G	Inf	3
46.2M	5.16822G	5.21442G	37.68M	5.171129G	5.208809G	Inf	4

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

EBW

5230MHz

16/05/2024

CF (Hz)
5.23G

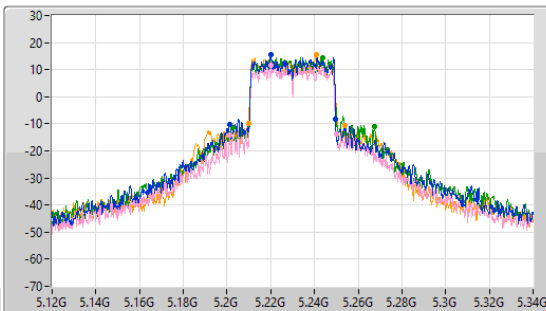
Span (Hz)
220M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
29.2u

Detector Type
Peak



CF (Hz)
5.23G

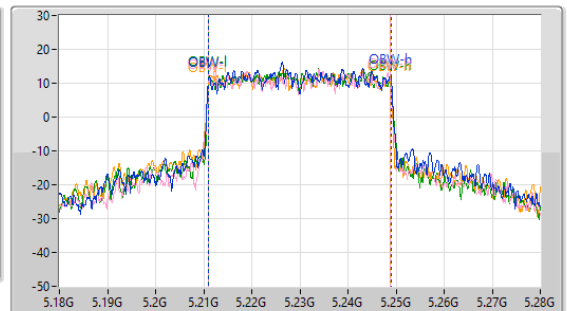
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

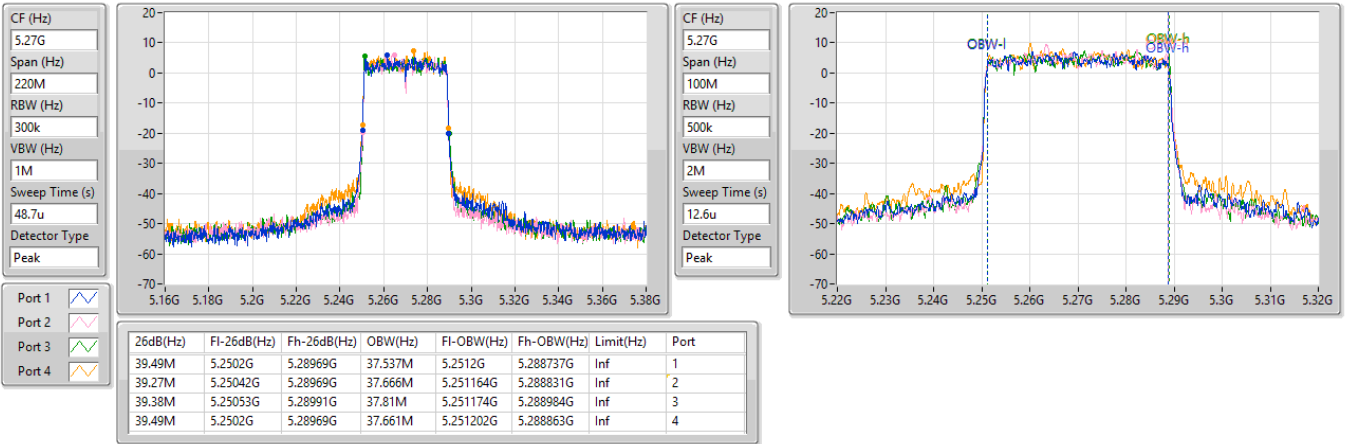
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
48.4M	5.20118G	5.24958G	38.064M	5.210981G	5.249045G	Inf	1
48.84M	5.20129G	5.25013G	37.878M	5.211023G	5.248901G	Inf	2
64.9M	5.20261G	5.26751G	37.928M	5.210973G	5.248901G	Inf	3
44M	5.20976G	5.25376G	37.858M	5.210978G	5.248836G	Inf	4

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

EBW

5270MHz

16/05/2024

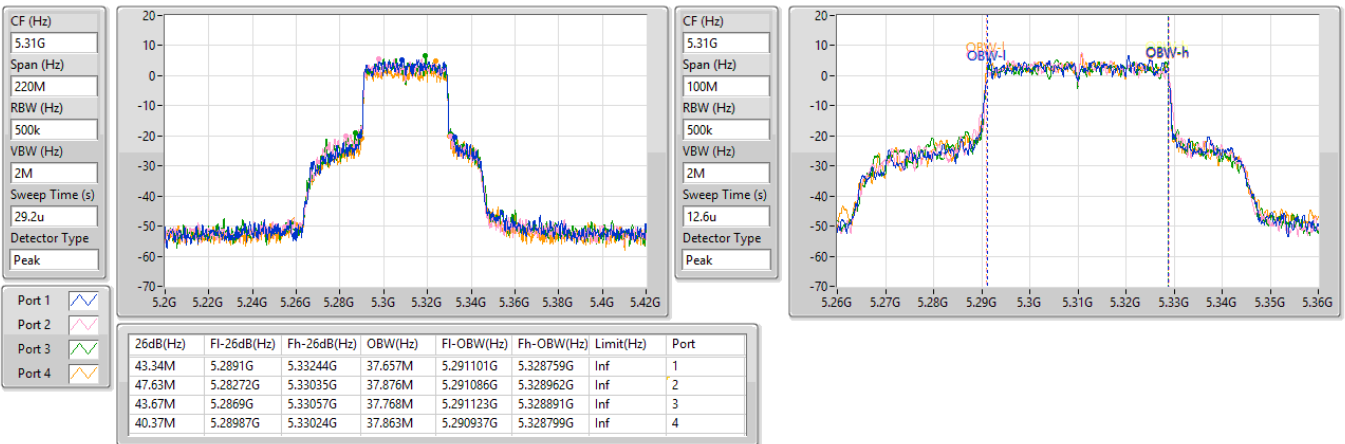


5.25-5.35GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

16/05/2024

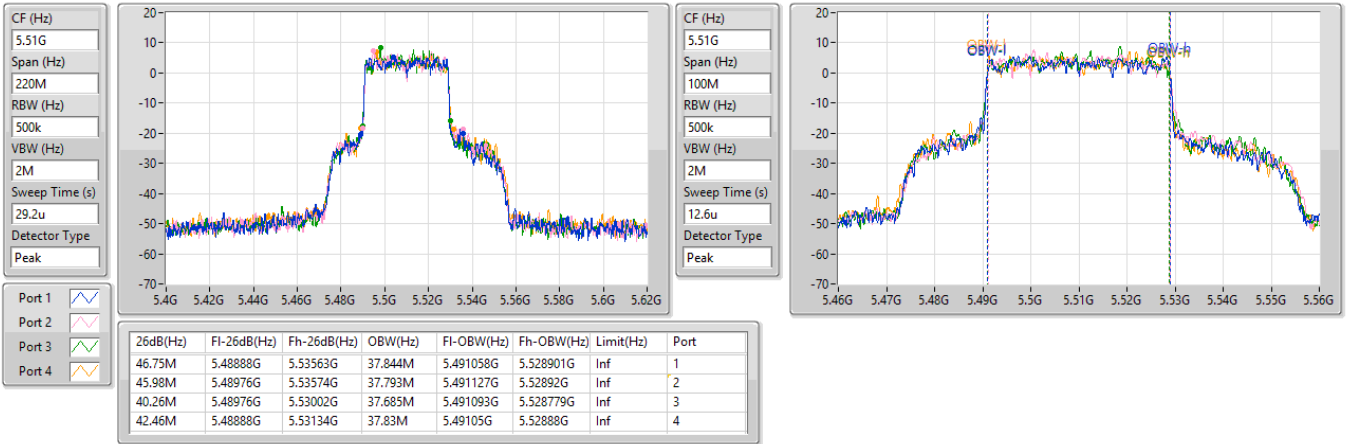


5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5510MHz

16/05/2024

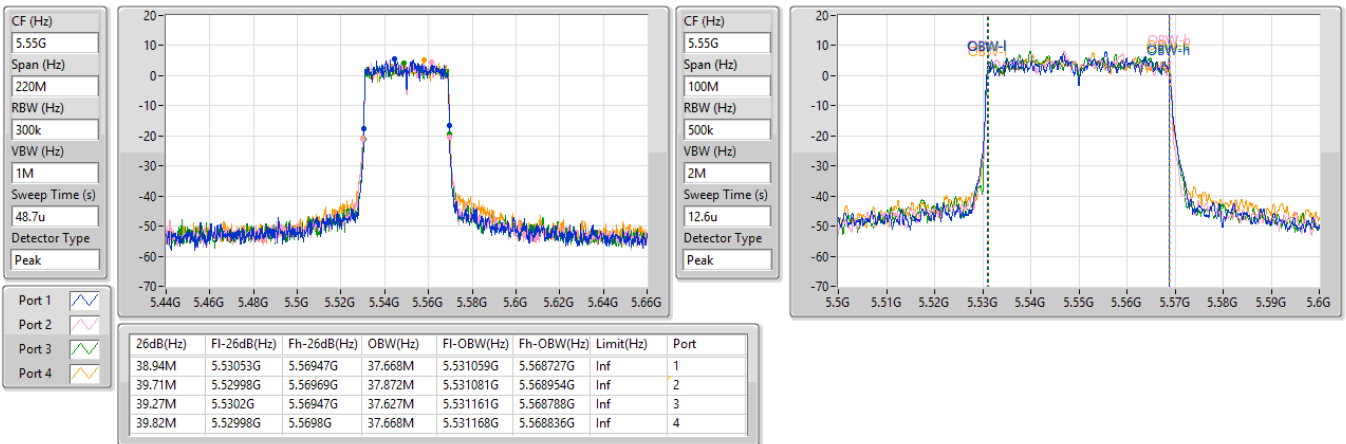


5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

16/05/2024

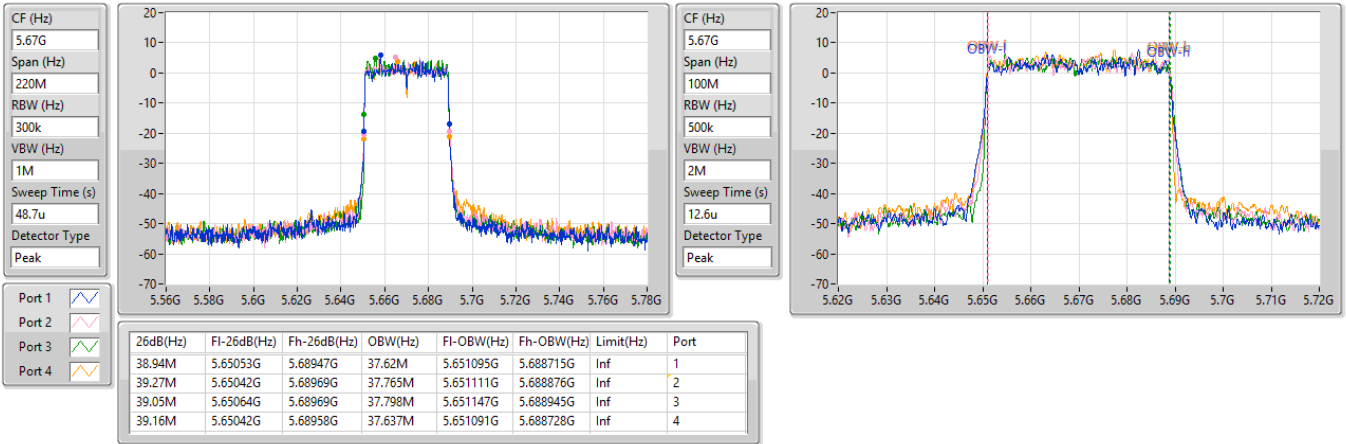


5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5670MHz

16/05/2024

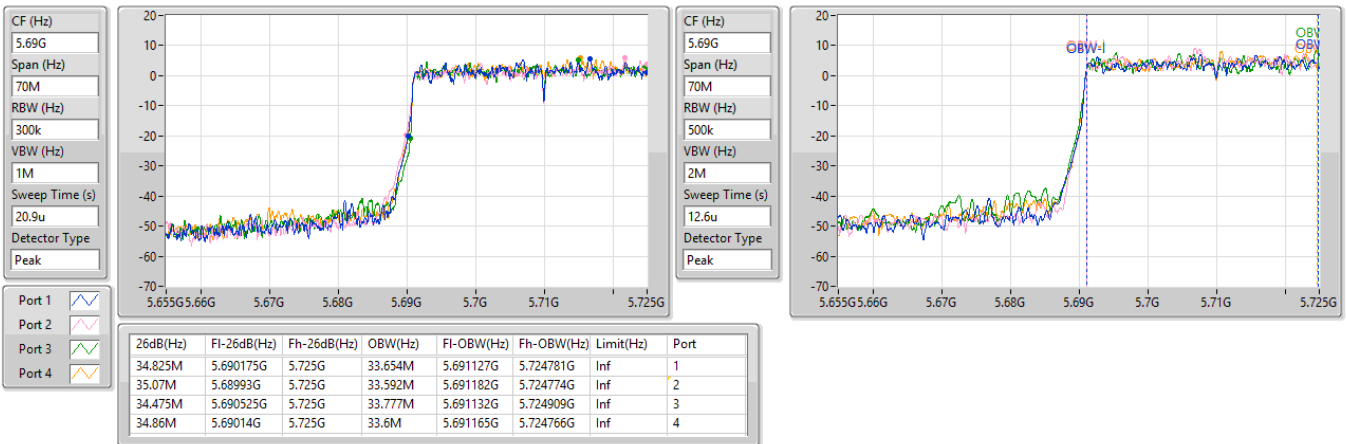


5.47-5.725GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

16/05/2024

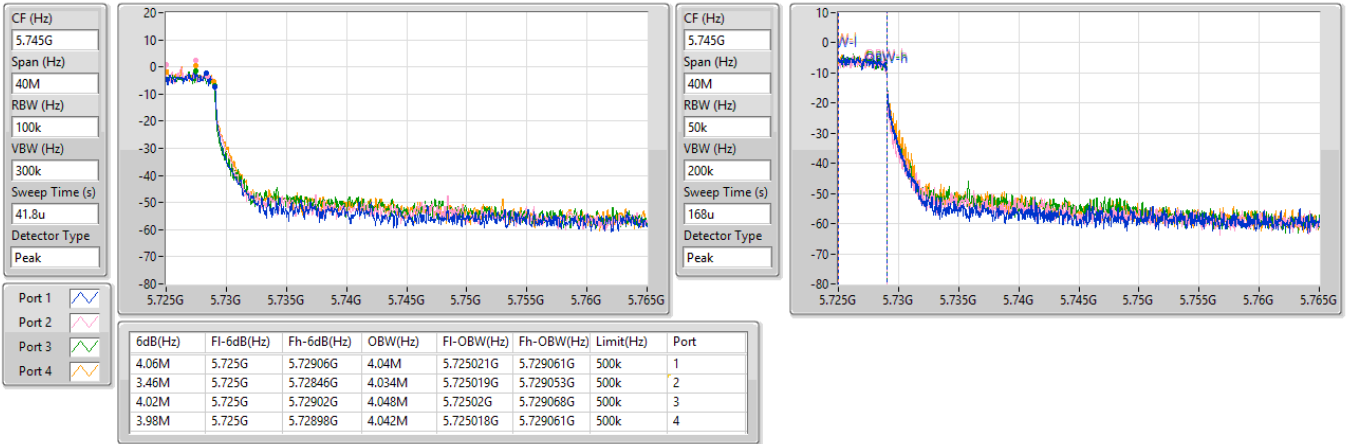


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

16/05/2024

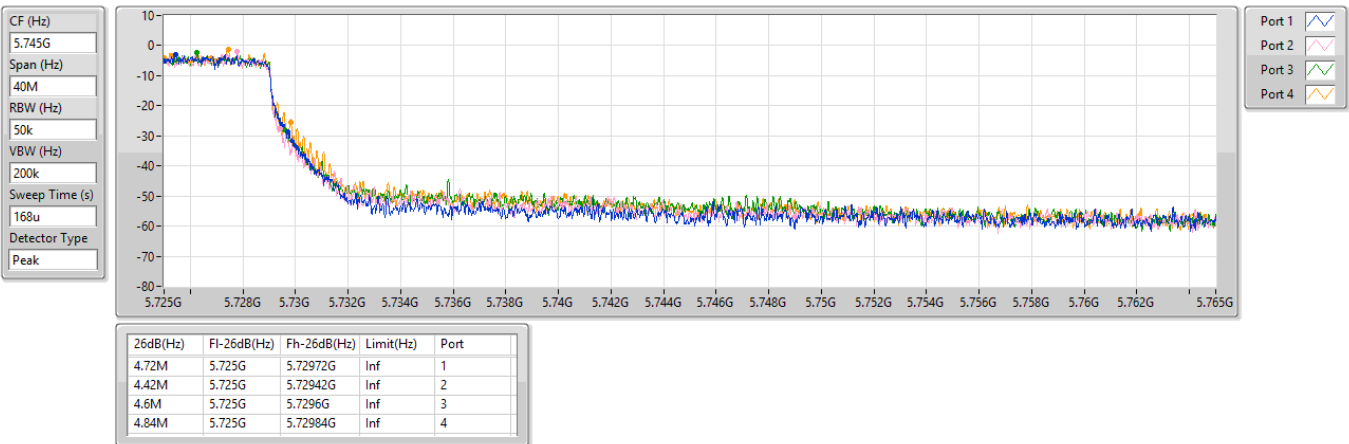


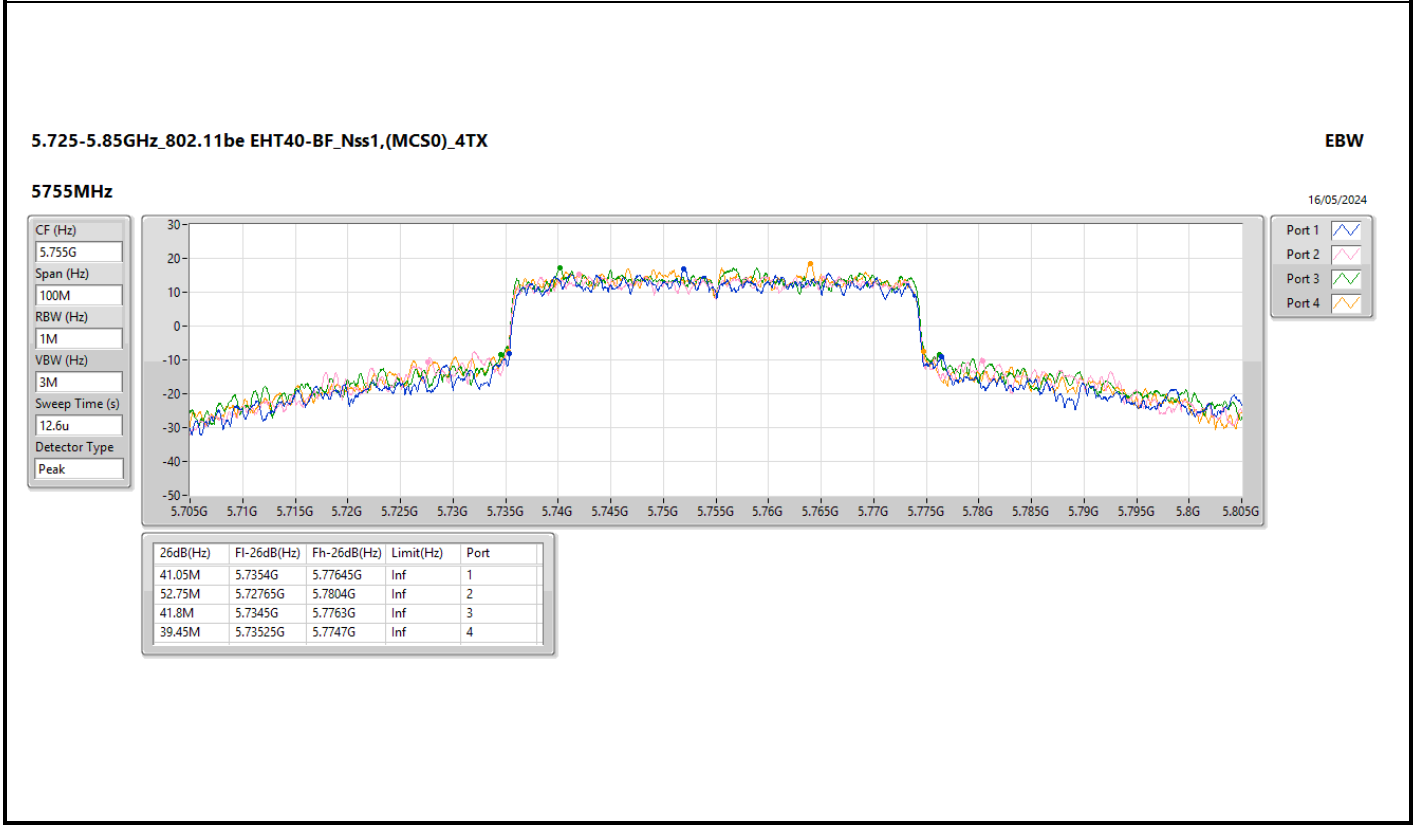
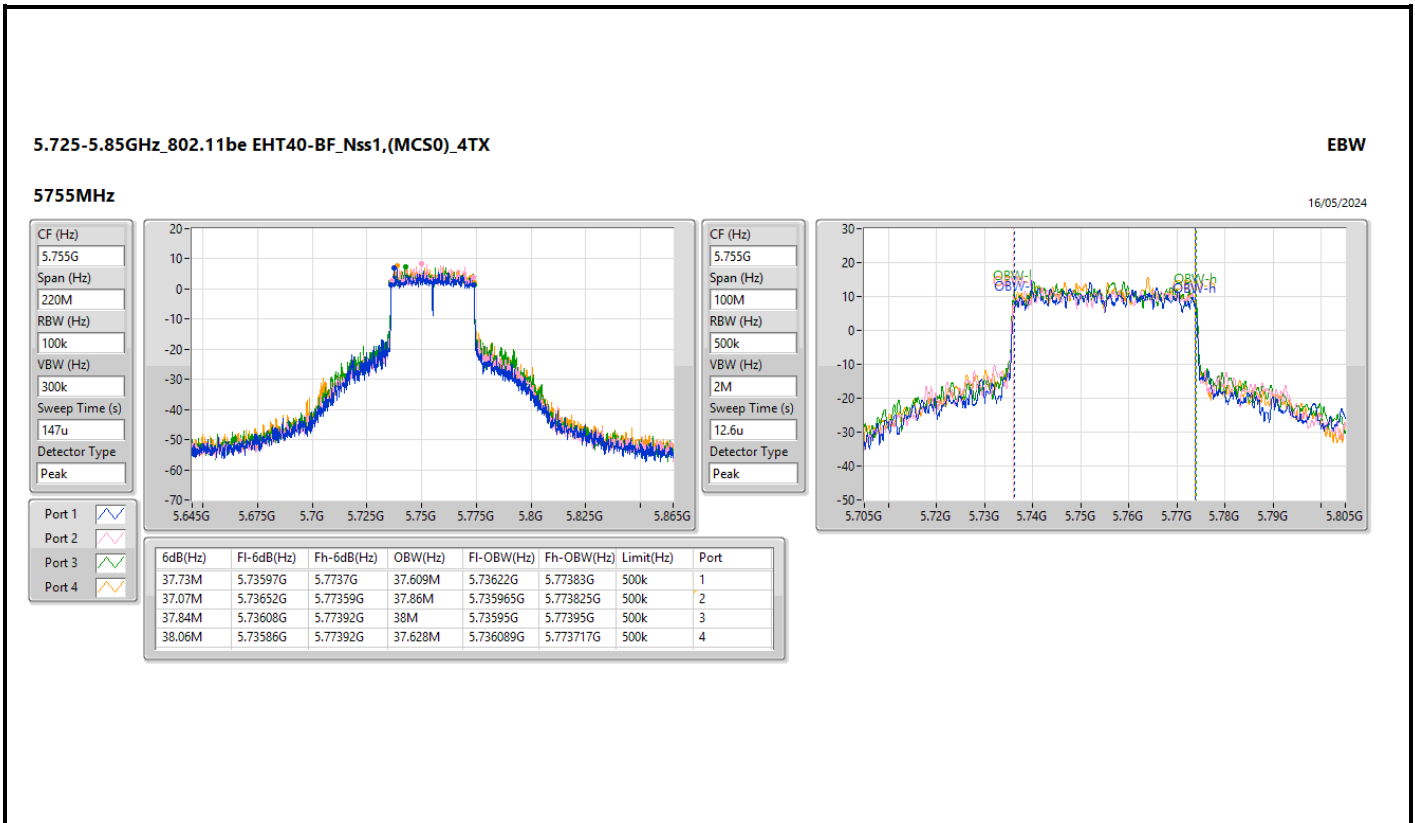
5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

16/05/2024



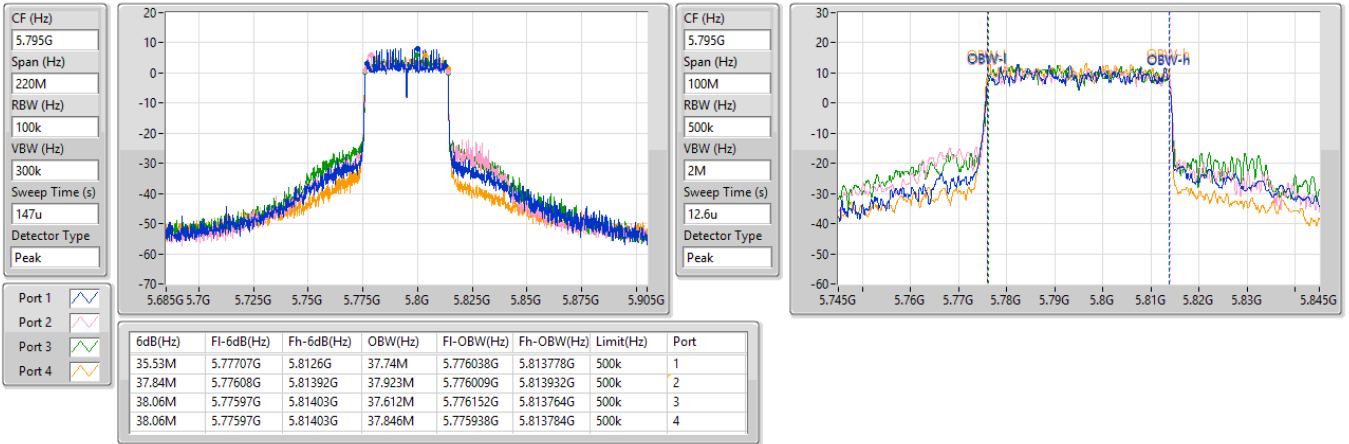


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

16/05/2024

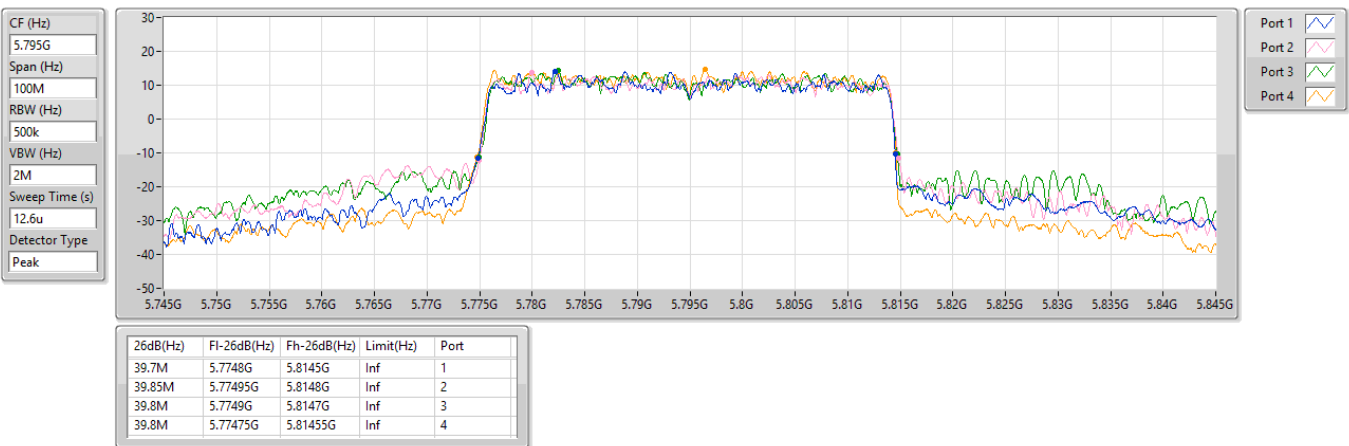


5.725-5.85GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

16/05/2024

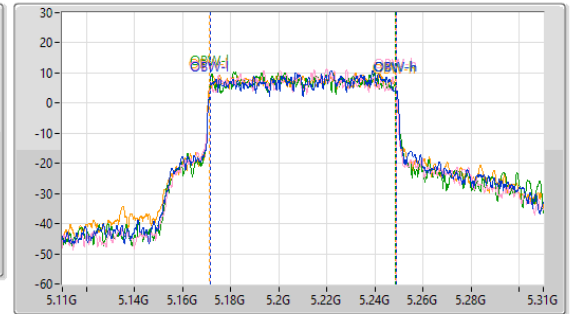
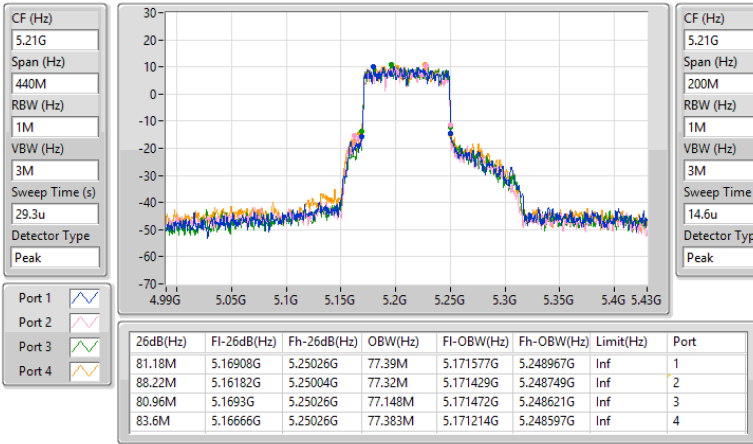


5.15-5.25GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

21/05/2024

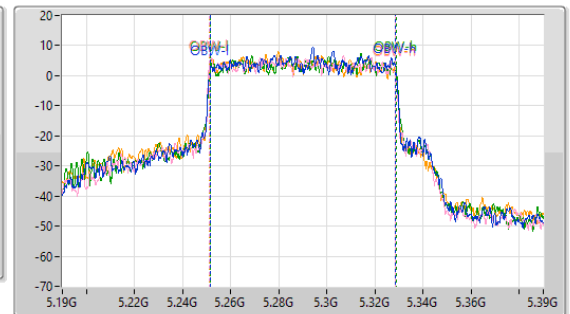
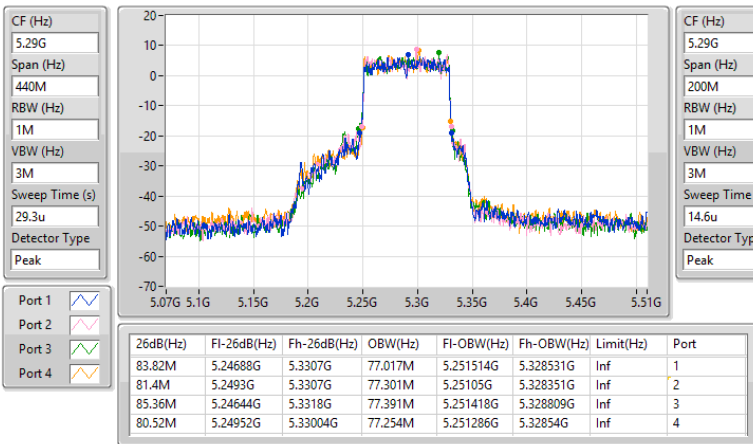


5.25-5.35GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

16/05/2024

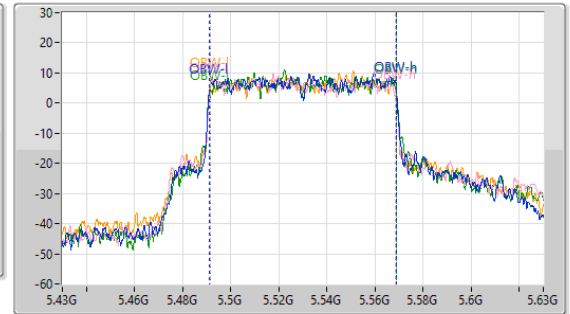
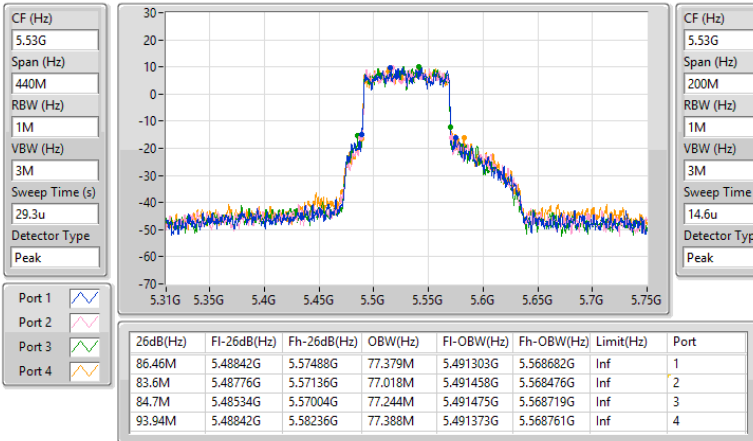


5.47-5.725GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

16/05/2024

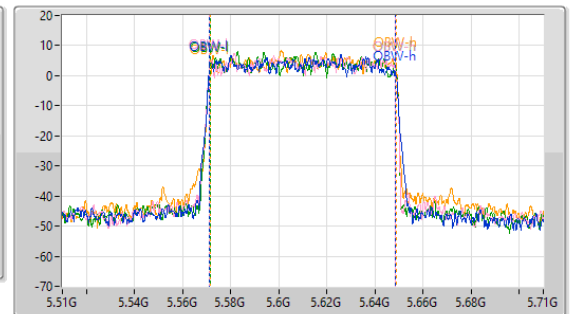
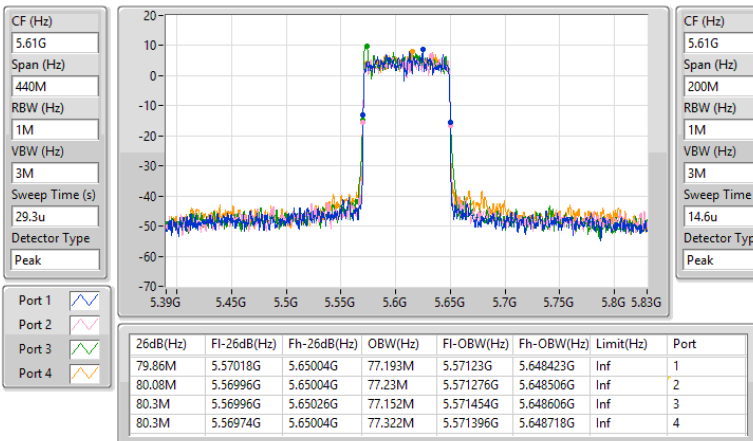


5.47-5.725GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

16/05/2024

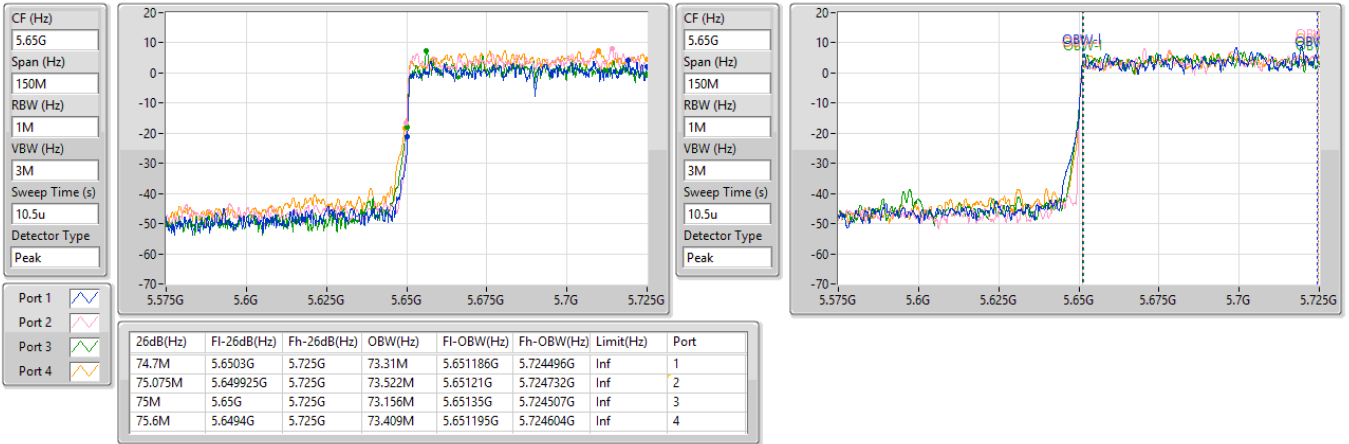


5.47-5.725GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

16/05/2024

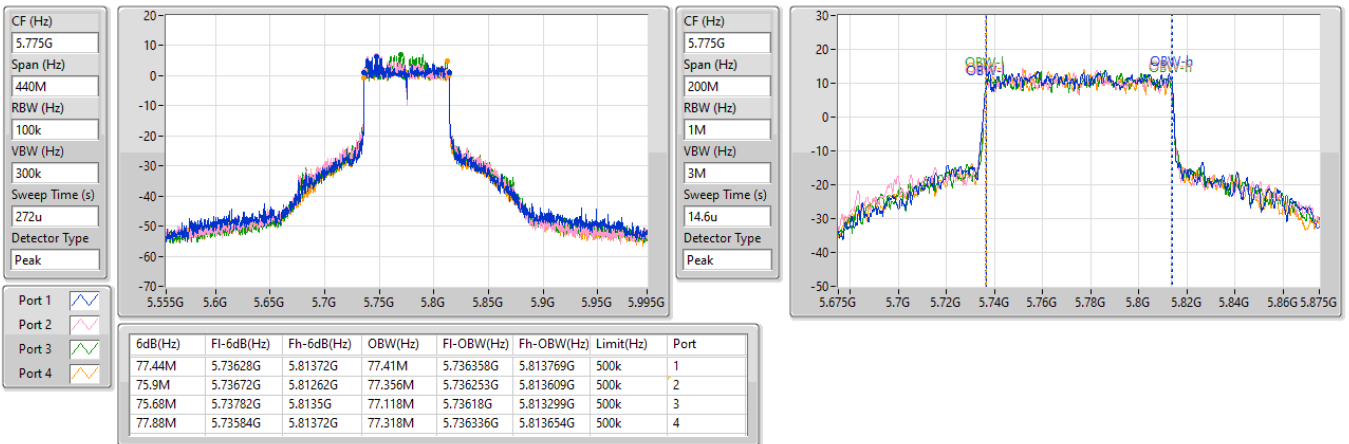


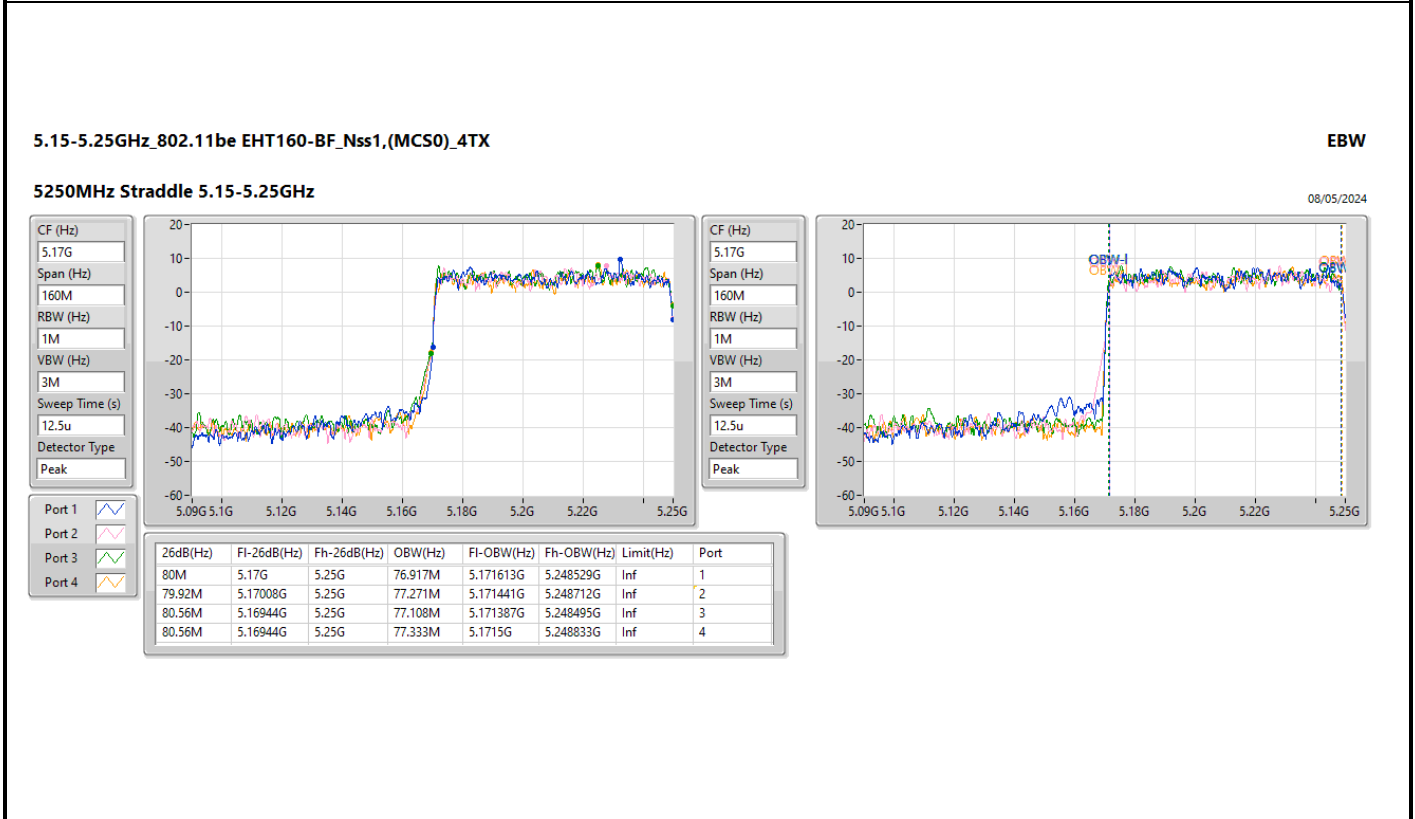
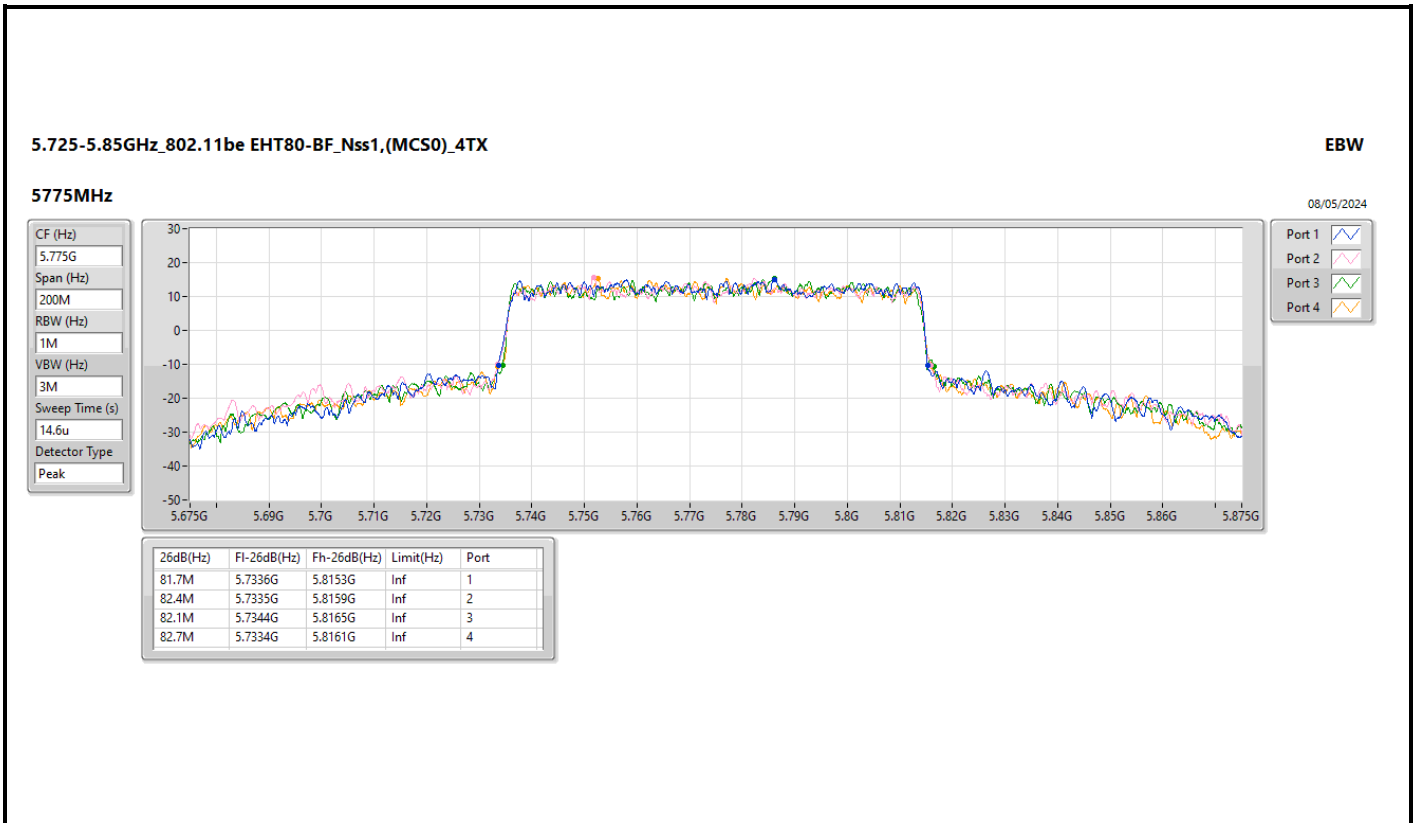
5.725-5.85GHz_802.11be EHT80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

08/05/2024



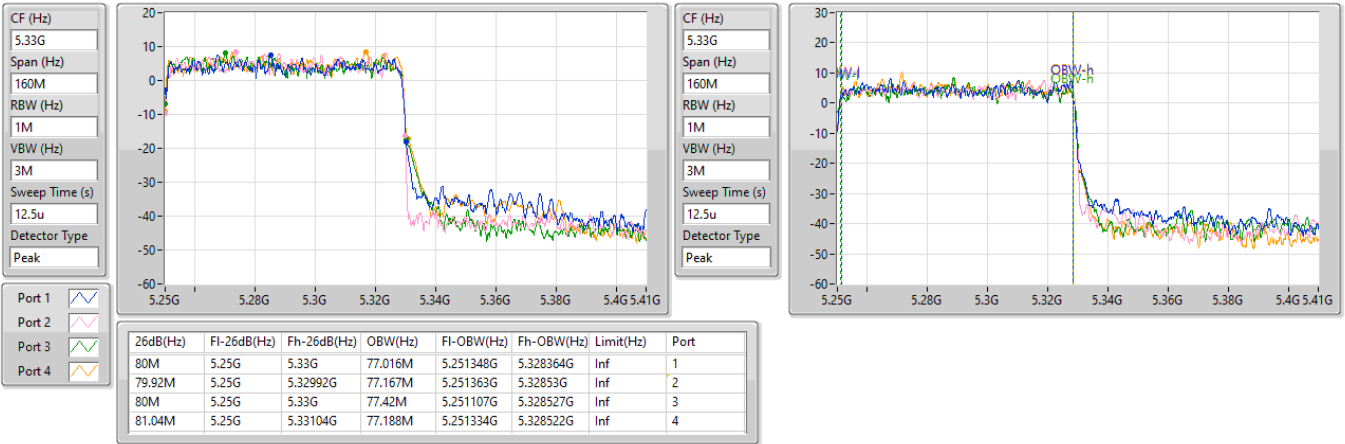


5.25-5.35GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

08/05/2024

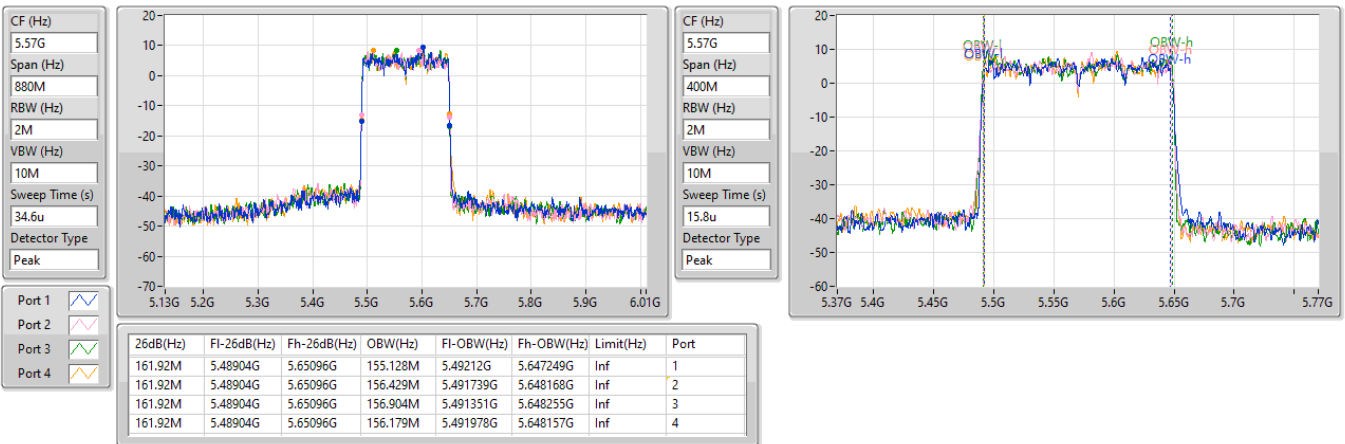


5.47-5.725GHz_802.11be EHT160-BF_Nss1,(MCS0)_4TX

EBW

5570MHz

08/05/2024





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11be EHT80-BF_Nss2,(MCS0)_4TX	85.8M	77.466M	77M5D1D	83.38M	77.046M
5.725-5.85GHz	-	-	-	-	-
802.11be EHT80-BF_Nss2,(MCS0)_4TX	77M	77.51M	77M5D1D	75.24M	77.165M

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)
802.11be EHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.38M	77.466M	84.04M	77.046M	85.8M	77.225M	84.04M	77.172M
5775MHz	Pass	500k	76.34M	77.51M	75.24M	77.172M	77M	77.231M	75.24M	77.165M

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_802.11be EHT80-BF_Nss2,(MCS0)_4TX

EBW

5210MHz

21/05/2024

CF (Hz)
5.21G

Span (Hz)
440M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
29.3u

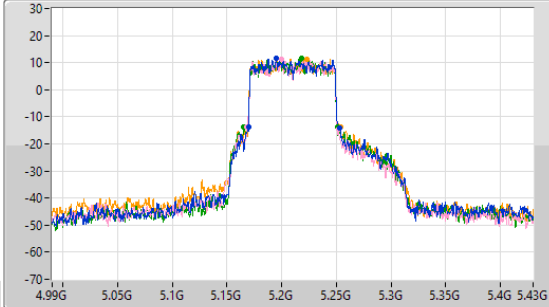
Detector Type
Peak

Port 1

Port 2

Port 3

Port 4



CF (Hz)
5.21G

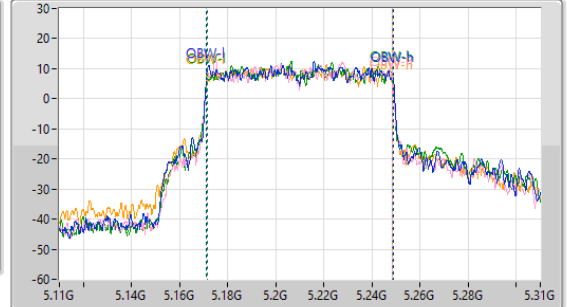
Span (Hz)
200M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
14.6u

Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.38M	5.16974G	5.25312G	77.466M	5.171291G	5.248757G	Inf	1
84.04M	5.16798G	5.25202G	77.046M	5.171302G	5.248349G	Inf	2
85.8M	5.16512G	5.25092G	77.225M	5.171427G	5.248652G	Inf	3
84.04M	5.16952G	5.25356G	77.172M	5.171308G	5.24848G	Inf	4

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

EBW

5775MHz

21/05/2024

CF (Hz)
5.775G

Span (Hz)
440M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep Time (s)
1272u

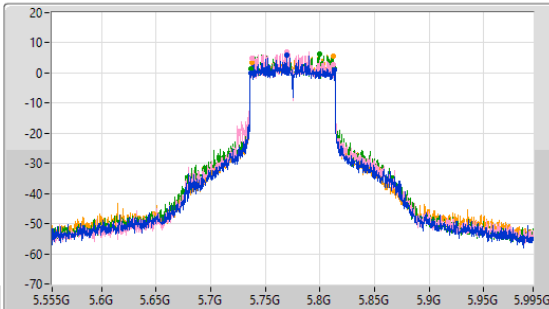
Detector Type
Peak

Port 1

Port 2

Port 3

Port 4



CF (Hz)
5.775G

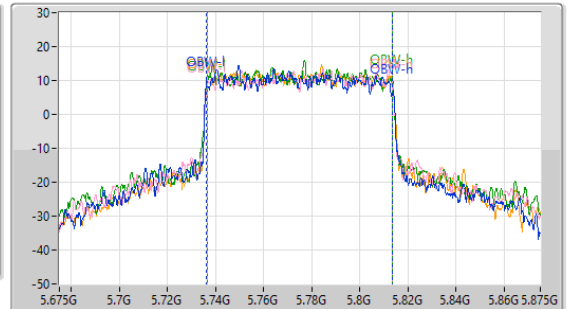
Span (Hz)
200M

RBW (Hz)
1M

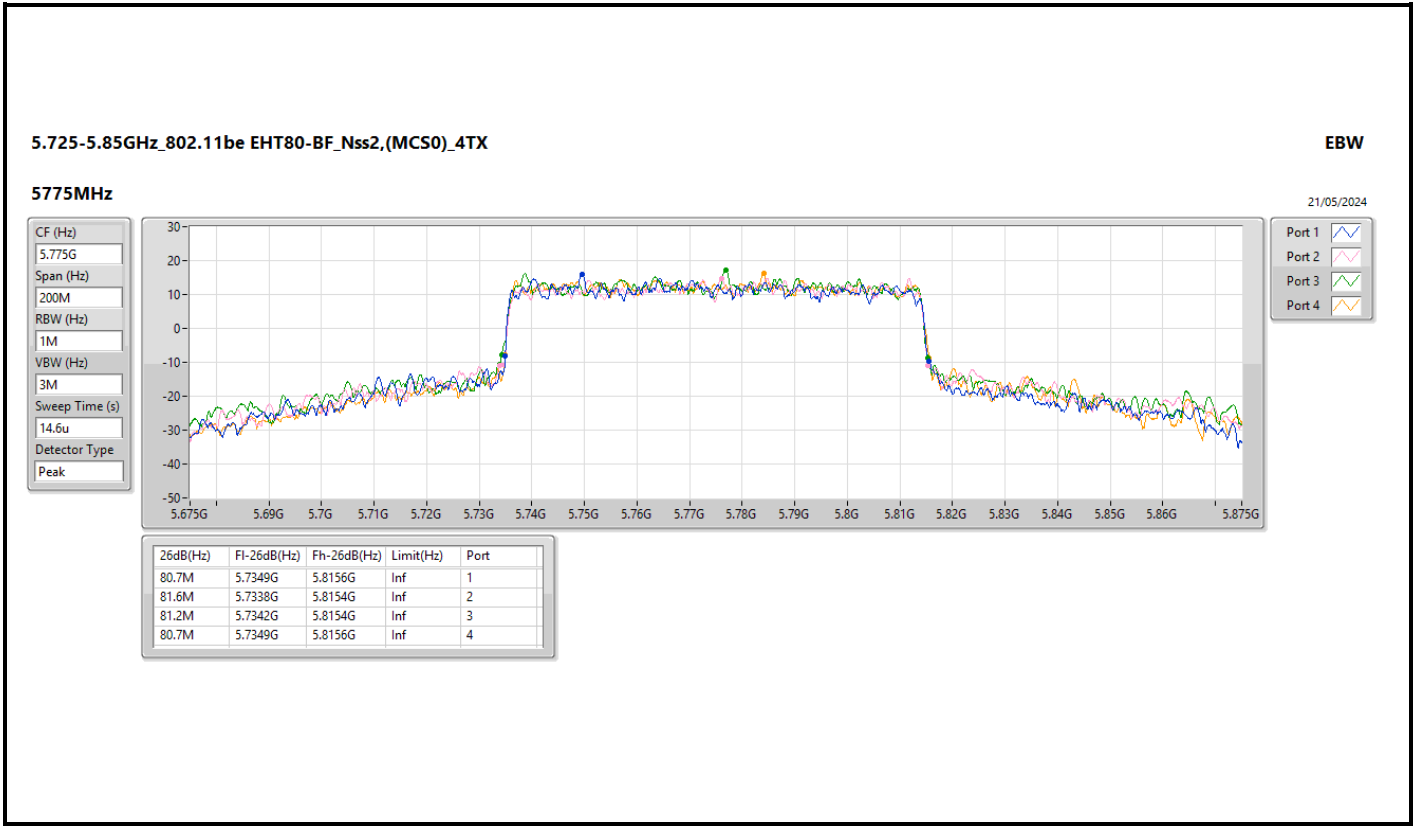
VBW (Hz)
3M

Sweep Time (s)
14.6u

Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.34M	5.73716G	5.8135G	77.51M	5.736104G	5.813615G	500k	1
75.24M	5.73738G	5.81262G	77.172M	5.736461G	5.813633G	500k	2
77M	5.7365G	5.8135G	77.231M	5.736392G	5.813623G	500k	3
75.24M	5.73738G	5.81262G	77.165M	5.736435G	5.813599G	500k	4





Summary

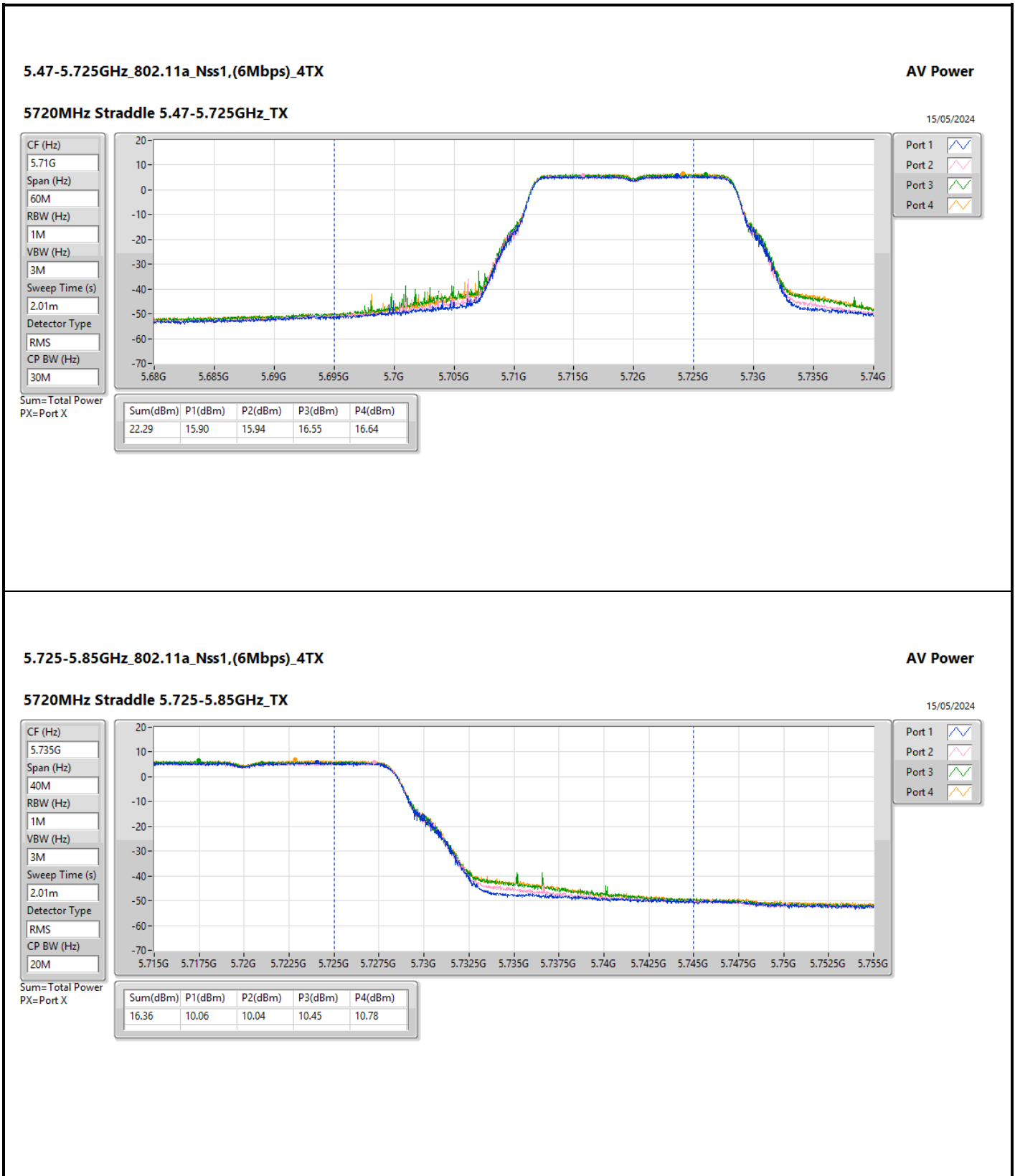
Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.88	0.97275
802.11be EHT20-BF_Nss1,(MCS0)_4TX	29.27	0.84528
802.11be EHT40-BF_Nss1,(MCS0)_4TX	29.33	0.85704
802.11be EHT80-BF_Nss1,(MCS0)_4TX	26.83	0.48195
802.11be EHT160-BF_Nss1,(MCS0)_4TX	23.25	0.21135
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.91	0.24604
802.11be EHT20-BF_Nss1,(MCS0)_4TX	23.29	0.21330
802.11be EHT40-BF_Nss1,(MCS0)_4TX	23.31	0.21429
802.11be EHT80-BF_Nss1,(MCS0)_4TX	23.29	0.21330
802.11be EHT160-BF_Nss1,(MCS0)_4TX	23.31	0.21429
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.96	0.24889
802.11be EHT20-BF_Nss1,(MCS0)_4TX	23.15	0.20654
802.11be EHT40-BF_Nss1,(MCS0)_4TX	23.24	0.21086
802.11be EHT80-BF_Nss1,(MCS0)_4TX	23.21	0.20941
802.11be EHT160-BF_Nss1,(MCS0)_4TX	23.25	0.21135
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.93	0.98401
802.11be EHT20-BF_Nss1,(MCS0)_4TX	29.41	0.87297
802.11be EHT40-BF_Nss1,(MCS0)_4TX	29.41	0.87297
802.11be EHT80-BF_Nss1,(MCS0)_4TX	29.37	0.86497



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.99	21.42	21.17	21.45	22.05	27.56	30.00
5200MHz	Pass	1.99	23.50	23.50	24.02	24.11	29.81	30.00
5240MHz	Pass	1.99	23.25	23.80	24.17	24.16	29.88	30.00
5260MHz	Pass	1.99	17.04	17.82	17.92	18.15	23.77	23.98
5300MHz	Pass	1.99	17.21	17.77	17.94	18.00	23.76	23.98
5320MHz	Pass	1.99	17.35	18.00	18.12	18.06	23.91	23.98
5500MHz	Pass	1.99	17.97	17.27	18.23	17.86	23.87	23.98
5580MHz	Pass	1.99	17.95	17.53	18.45	17.25	23.84	23.98
5700MHz	Pass	1.99	17.70	17.71	18.30	18.00	23.96	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	1.99	15.90	15.94	16.55	16.64	22.29	22.77
5720MHz Straddle 5.725-5.85GHz	Pass	1.99	10.06	10.04	10.45	10.78	16.36	30.00
5745MHz	Pass	1.99	23.30	23.42	24.27	24.53	29.93	30.00
5785MHz	Pass	1.99	23.31	23.33	23.99	24.73	29.90	30.00
5825MHz	Pass	1.99	23.34	23.47	24.09	24.45	29.88	30.00
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.65	20.04	19.96	19.98	20.34	26.10	29.35
5200MHz	Pass	6.65	23.21	22.94	23.38	23.44	29.27	29.35
5240MHz	Pass	6.65	23.09	23.01	23.24	23.13	29.14	29.35
5260MHz	Pass	6.65	16.99	16.99	17.07	17.27	23.10	23.33
5300MHz	Pass	6.65	17.14	17.20	17.25	17.28	23.24	23.33
5320MHz	Pass	6.65	17.25	17.27	17.47	17.07	23.29	23.33
5500MHz	Pass	6.71	17.04	17.18	17.21	16.86	23.10	23.27
5580MHz	Pass	6.71	16.79	17.10	17.29	16.99	23.07	23.27
5700MHz	Pass	6.71	16.80	17.24	17.23	17.22	23.15	23.27
5720MHz Straddle 5.47-5.725GHz	Pass	6.71	15.67	16.21	16.21	16.20	22.10	22.13
5720MHz Straddle 5.725-5.85GHz	Pass	6.55	10.57	11.28	11.07	11.21	17.06	29.45
5745MHz	Pass	6.55	22.90	23.20	23.42	23.98	29.41	29.45
5785MHz	Pass	6.55	22.83	23.04	23.37	23.61	29.24	29.45
5825MHz	Pass	6.55	22.94	23.16	23.39	23.63	29.31	29.45
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.65	19.79	19.43	19.76	19.83	25.73	29.35
5230MHz	Pass	6.65	23.24	23.22	23.34	23.44	29.33	29.35
5270MHz	Pass	6.65	17.01	16.97	16.96	17.37	23.10	23.33
5310MHz	Pass	6.65	17.25	17.23	17.30	17.37	23.31	23.33
5510MHz	Pass	6.71	17.03	17.34	17.32	17.18	23.24	23.27
5550MHz	Pass	6.71	16.92	17.13	17.22	17.05	23.10	23.27
5670MHz	Pass	6.71	16.70	17.05	17.14	17.23	23.06	23.27
5710MHz Straddle 5.47-5.725GHz	Pass	6.71	16.93	17.01	17.35	17.52	23.23	23.27
5710MHz Straddle 5.725-5.85GHz	Pass	6.55	7.74	7.66	7.73	8.27	13.88	29.45
5755MHz	Pass	6.55	22.91	23.22	23.30	23.95	29.38	29.45
5795MHz	Pass	6.55	22.97	23.16	23.46	23.90	29.41	29.45
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.65	20.97	20.68	20.86	20.73	26.83	29.35
5290MHz	Pass	6.65	17.12	17.04	17.26	17.62	23.29	23.33
5530MHz	Pass	6.71	17.10	16.88	17.06	17.09	23.05	23.27
5610MHz	Pass	6.71	16.92	17.07	17.04	17.46	23.15	23.27
5690MHz Straddle 5.47-5.725GHz	Pass	6.71	16.83	16.97	17.43	17.49	23.21	23.27
5690MHz Straddle 5.725-5.85GHz	Pass	6.55	3.76	4.07	4.09	4.78	10.21	29.45
5775MHz	Pass	6.55	23.67	23.33	23.31	23.06	29.37	29.45
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.65	17.37	17.00	17.49	17.02	23.25	29.35
5250MHz Straddle 5.25-5.35GHz	Pass	6.65	17.10	17.28	17.11	17.64	23.31	23.33
5570MHz	Pass	6.71	17.20	17.11	17.36	17.23	23.25	23.27

DG = Directional Gain; Port X = Port X output power
 Inf = There's no restriction for the limit.



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

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

15/05/2024

CF (Hz)
5.735G

Span (Hz)
40M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
2.01m

Detector Type
RMS

CP BW (Hz)
20M



Port 1 

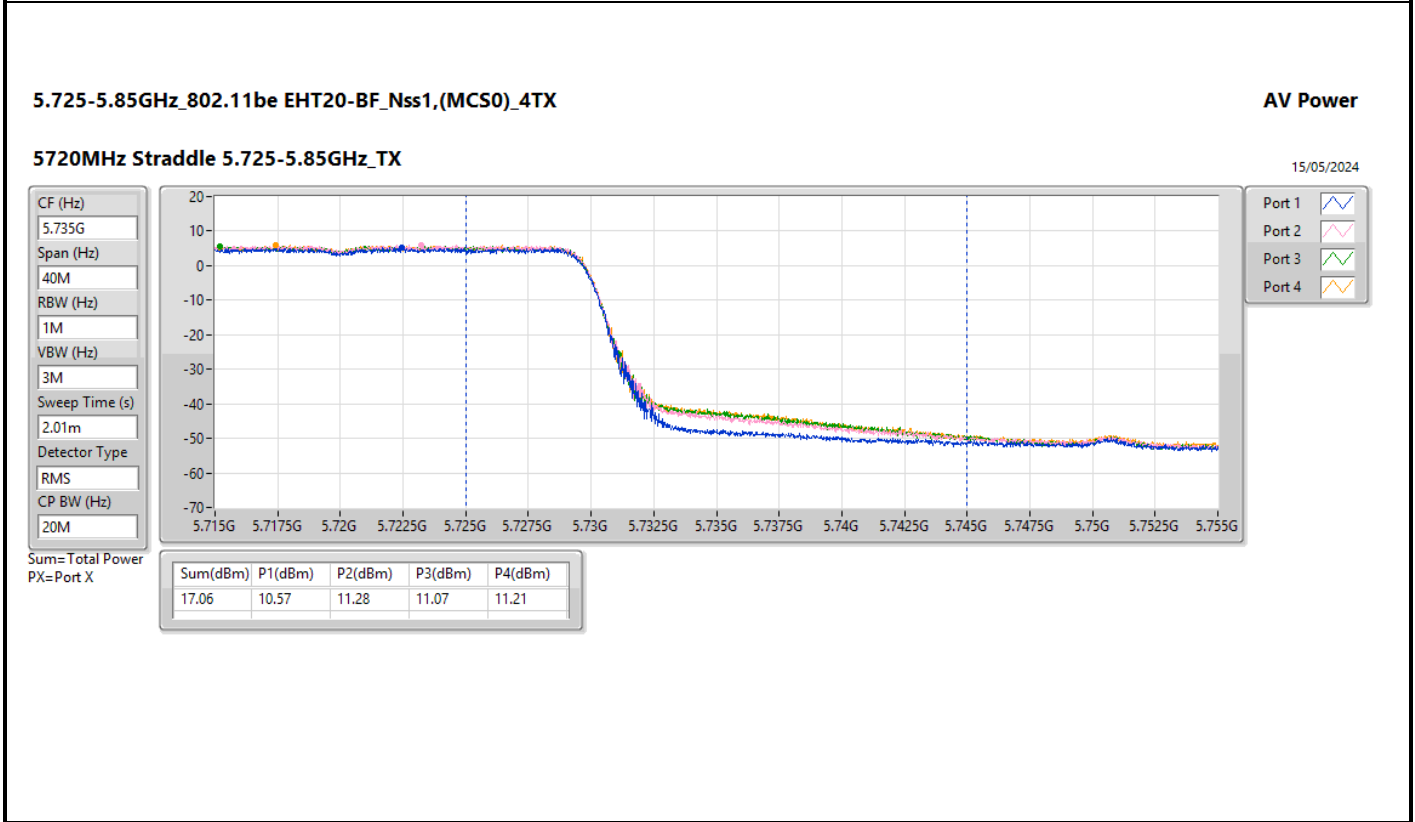
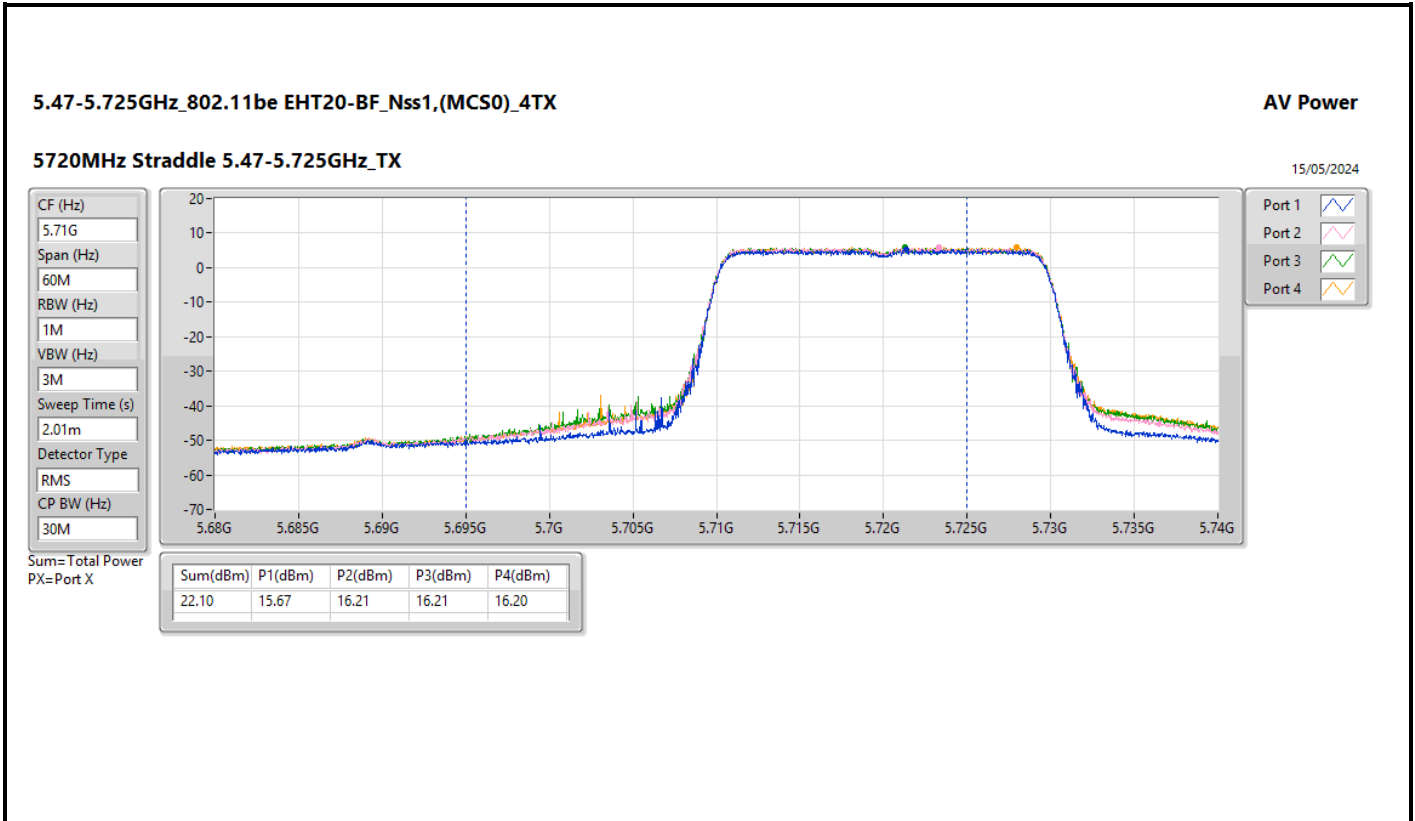
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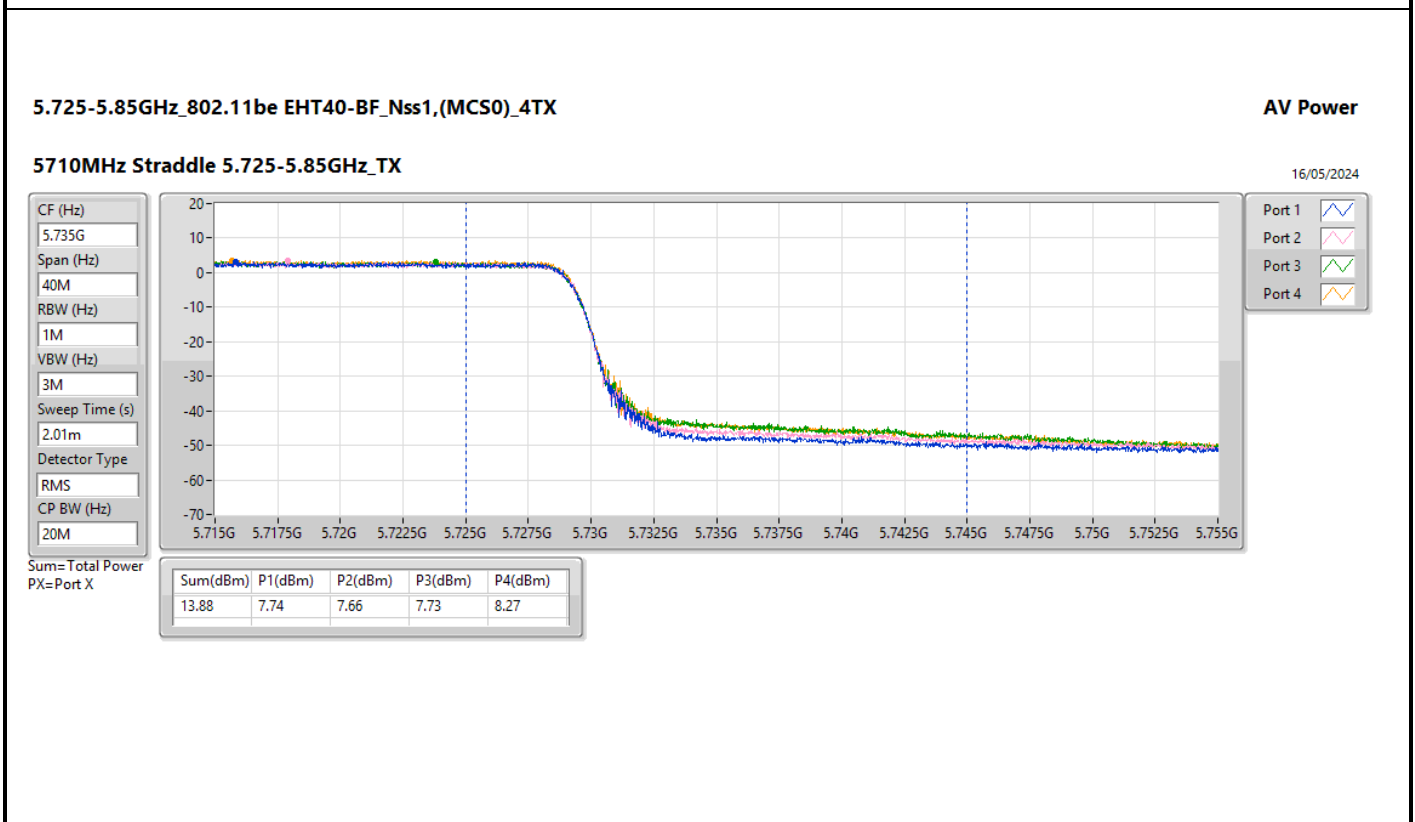
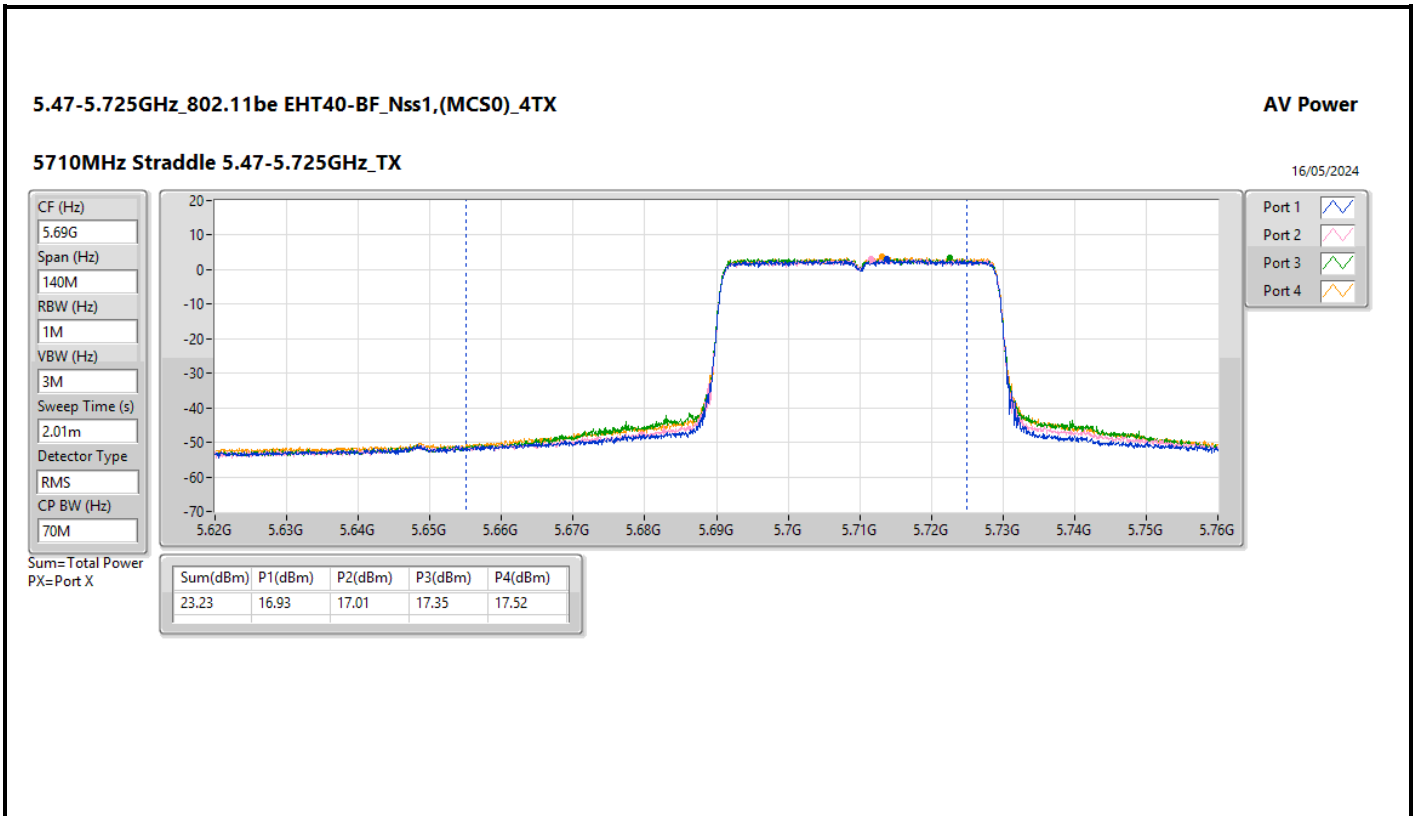
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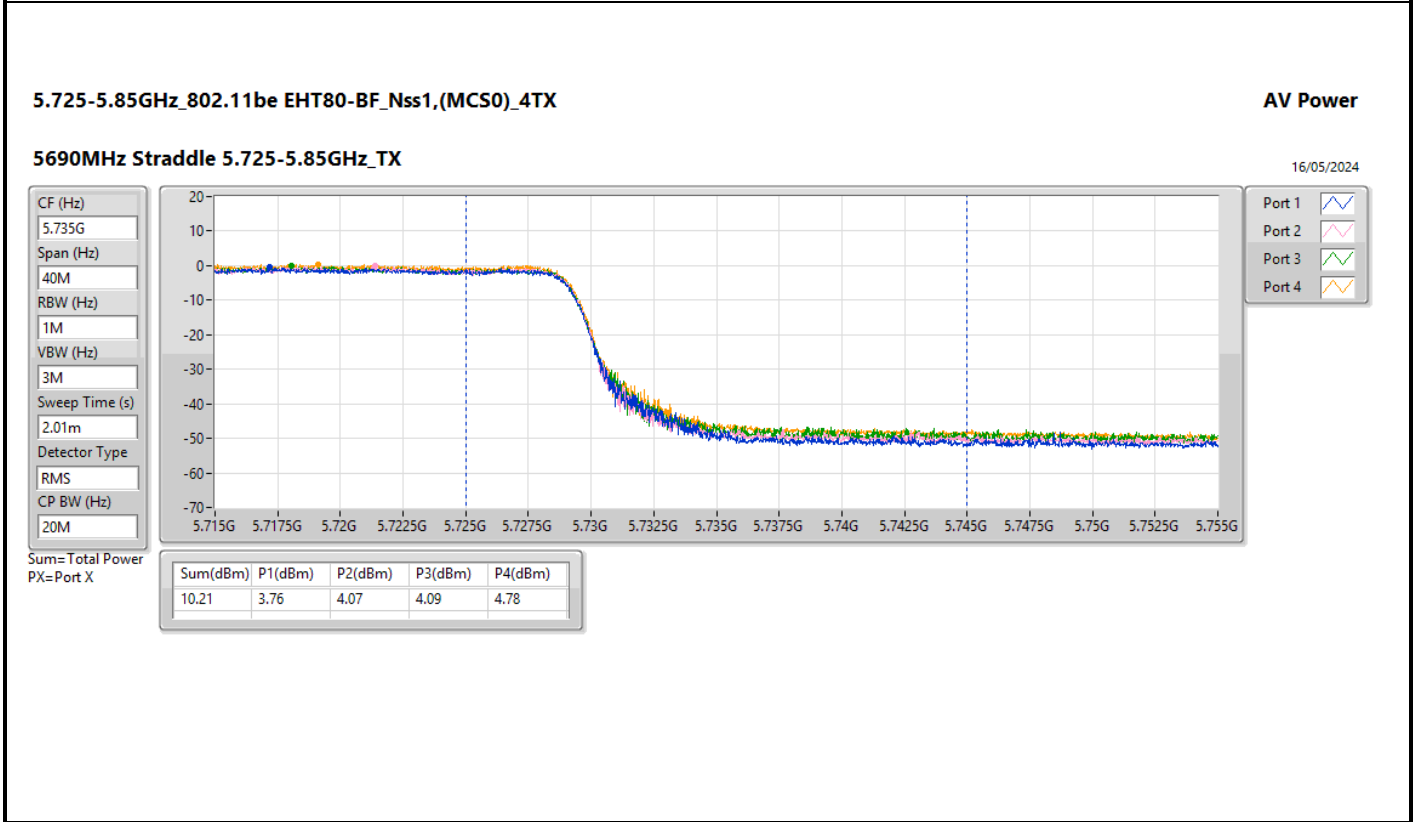
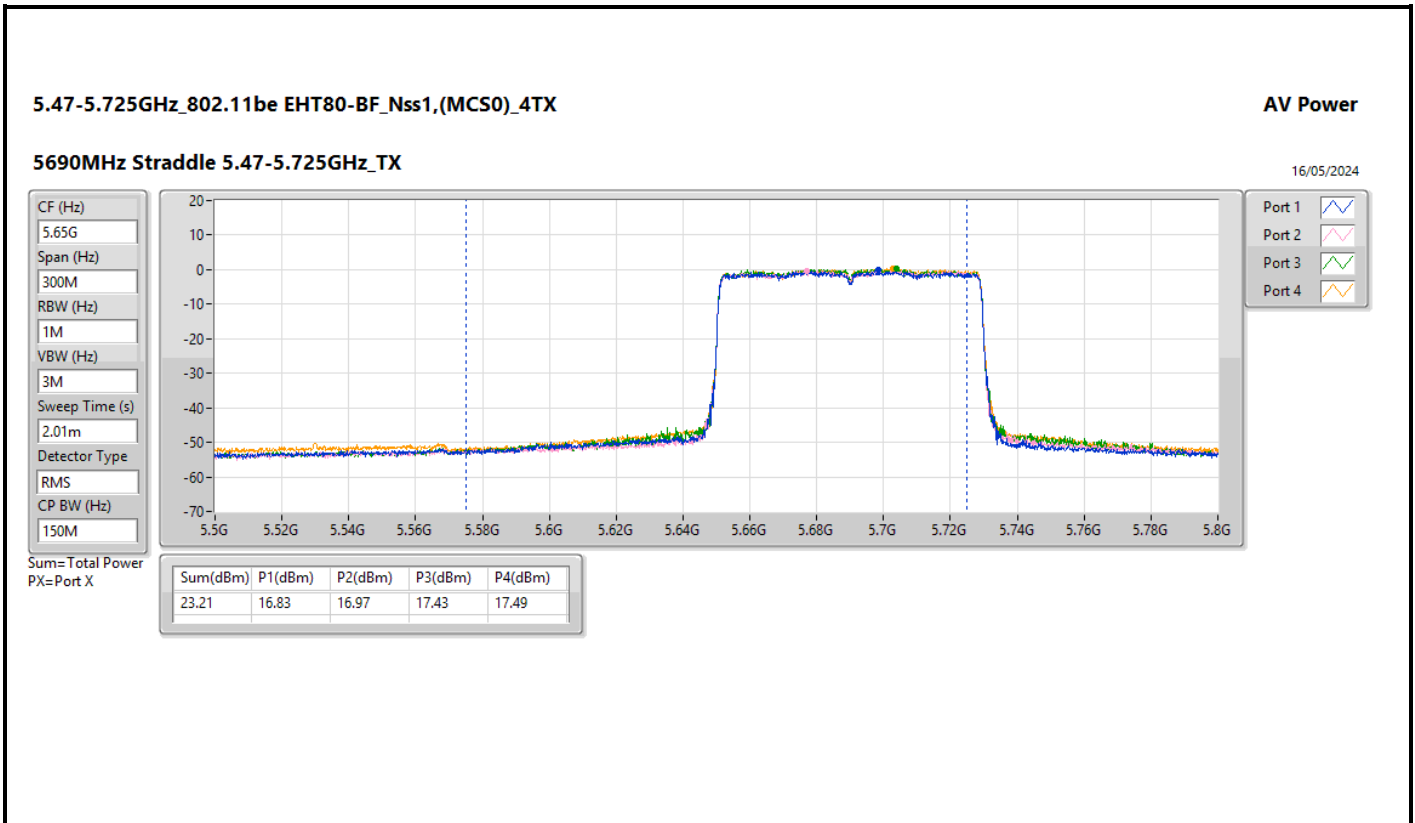
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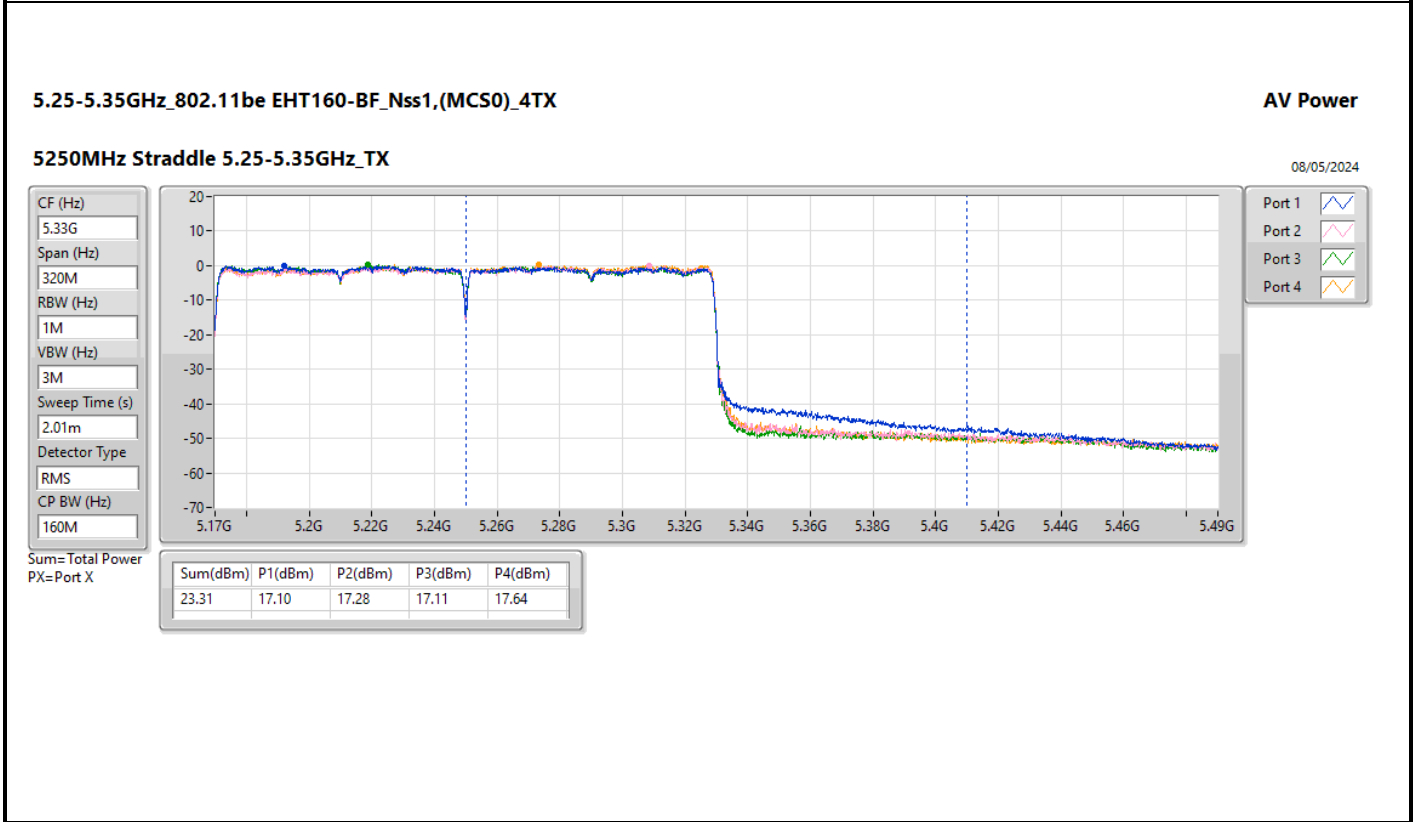
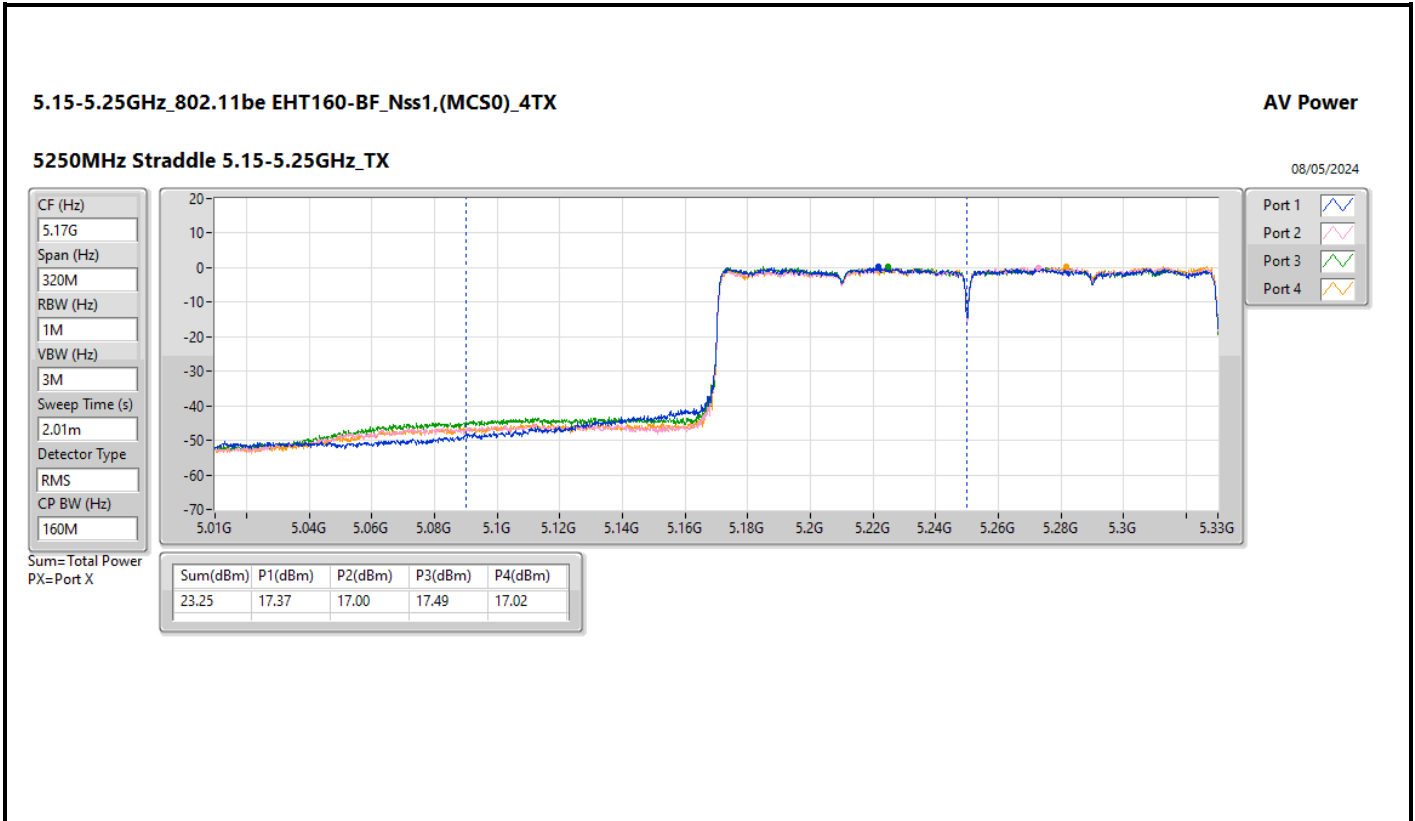
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
16.36	10.06	10.04	10.45	10.78











Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11be EHT80-BF_Nss2,(MCS0)_4TX	27.75	0.59566
5.725-5.85GHz	-	-
802.11be EHT80-BF_Nss2,(MCS0)_4TX	29.80	0.95499



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11be EHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.64	21.86	21.51	21.74	21.78	27.75	30.00
5775MHz	Pass	3.54	23.25	23.67	24.05	24.10	29.80	30.00

DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.86
802.11be EHT20-BF_Nss1,(MCS0)_4TX	14.79
802.11be EHT40-BF_Nss1,(MCS0)_4TX	12.26
802.11be EHT80-BF_Nss1,(MCS0)_4TX	7.27
802.11be EHT160-BF_Nss1,(MCS0)_4TX	3.95
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.96
802.11be EHT20-BF_Nss1,(MCS0)_4TX	8.89
802.11be EHT40-BF_Nss1,(MCS0)_4TX	6.34
802.11be EHT80-BF_Nss1,(MCS0)_4TX	3.67
802.11be EHT160-BF_Nss1,(MCS0)_4TX	3.81
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	10.16
802.11be EHT20-BF_Nss1,(MCS0)_4TX	9.44
802.11be EHT40-BF_Nss1,(MCS0)_4TX	7.09
802.11be EHT80-BF_Nss1,(MCS0)_4TX	3.97
802.11be EHT160-BF_Nss1,(MCS0)_4TX	1.45
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	14.47
802.11be EHT20-BF_Nss1,(MCS0)_4TX	13.72
802.11be EHT40-BF_Nss1,(MCS0)_4TX	10.80
802.11be EHT80-BF_Nss1,(MCS0)_4TX	8.85

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

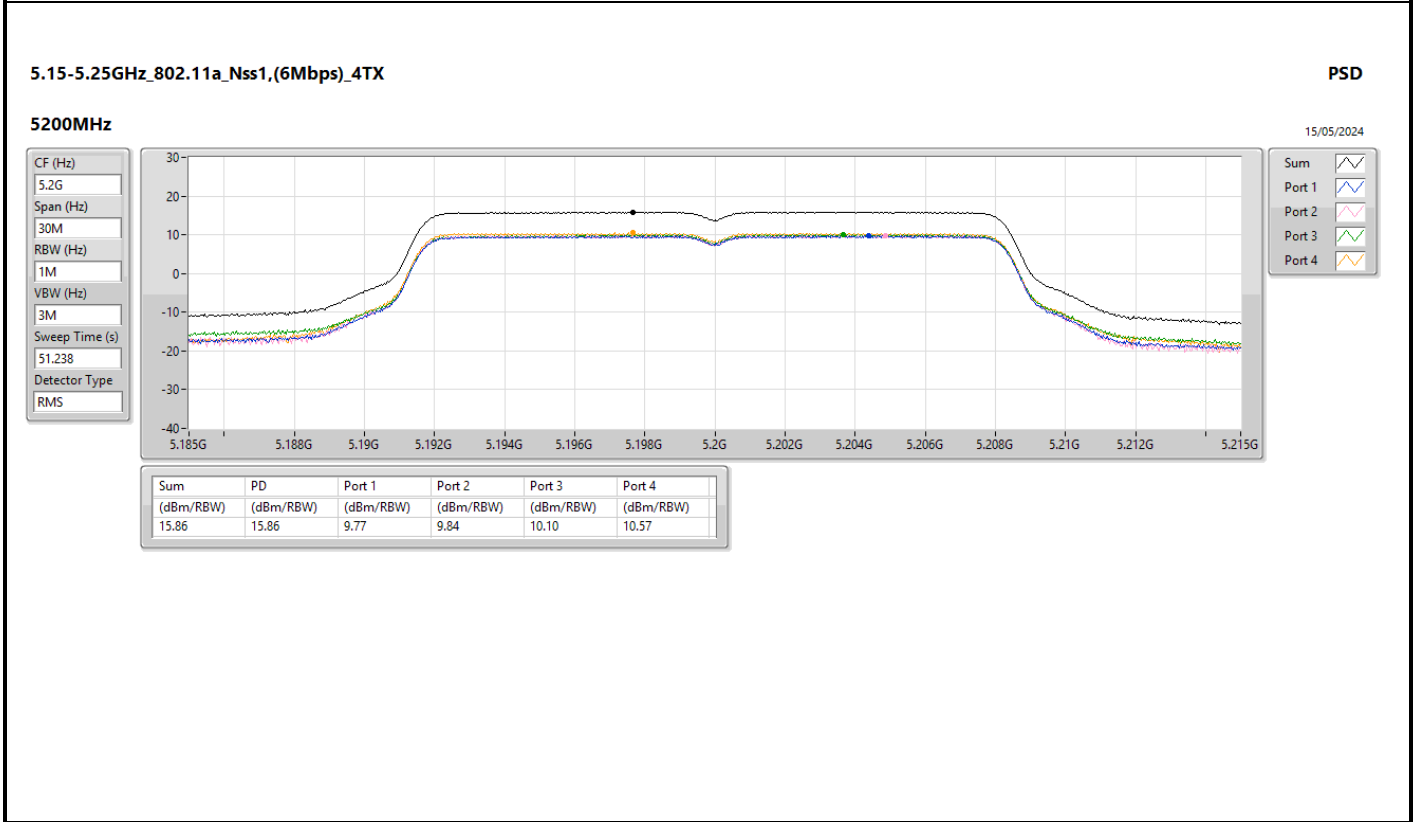
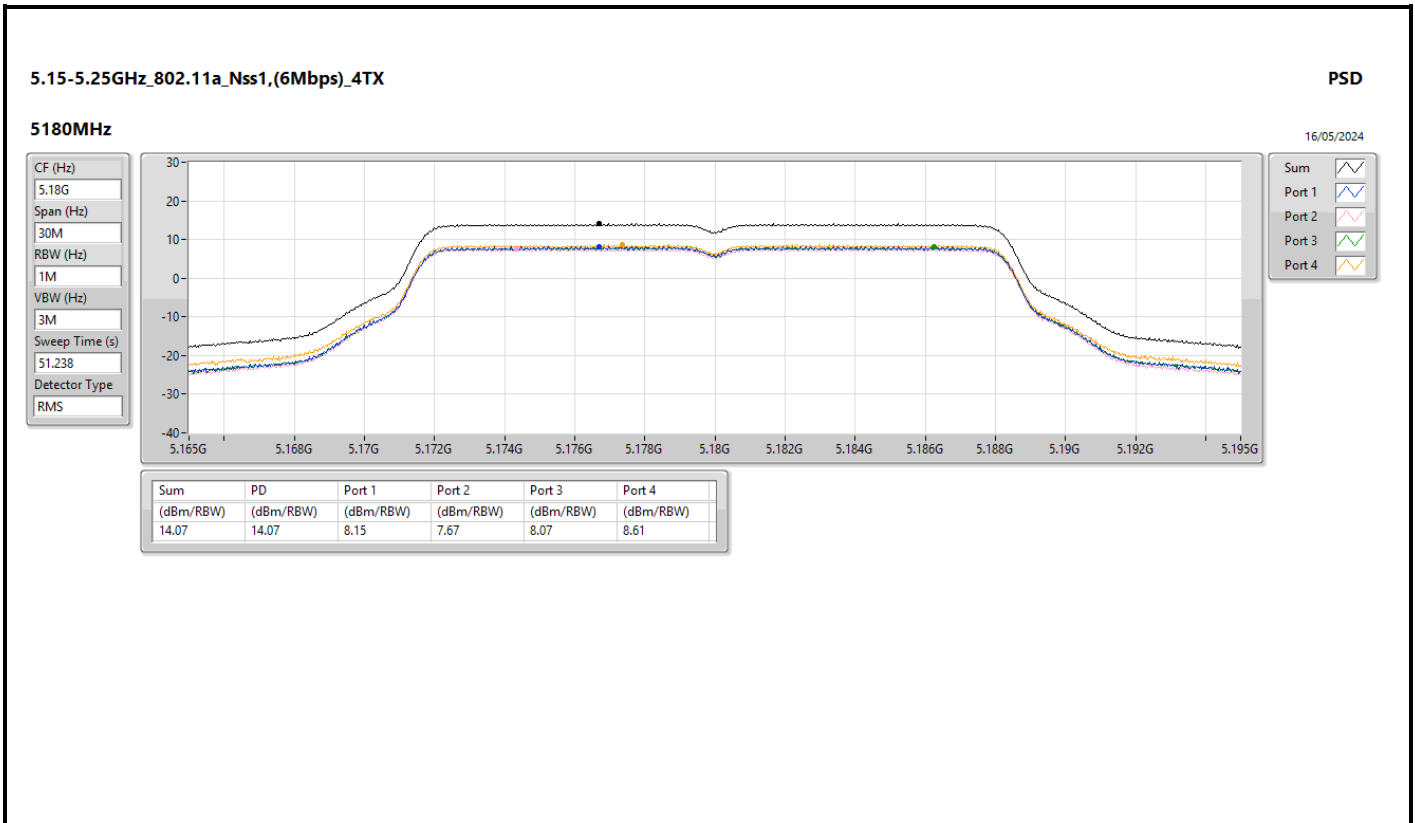


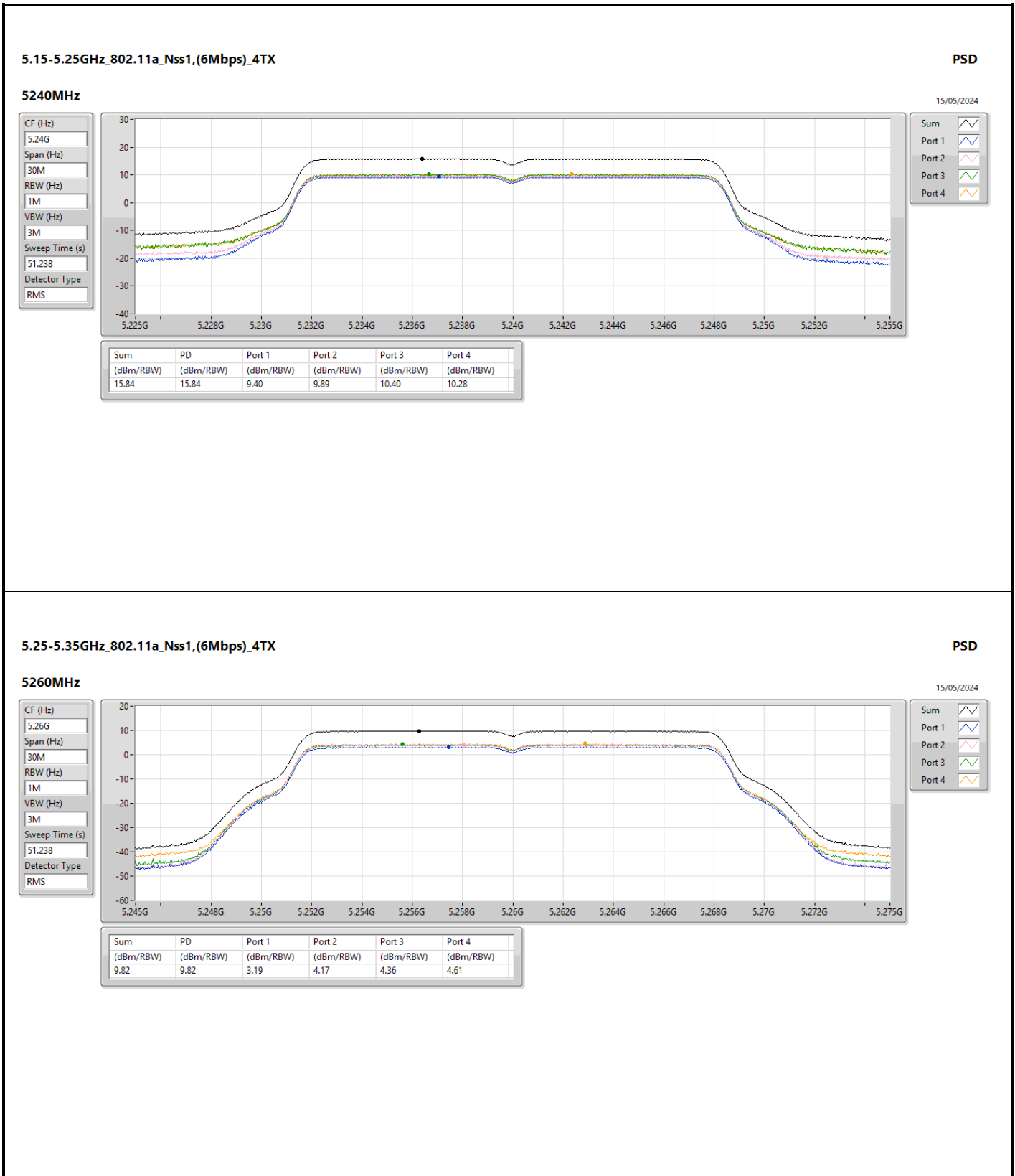
Result

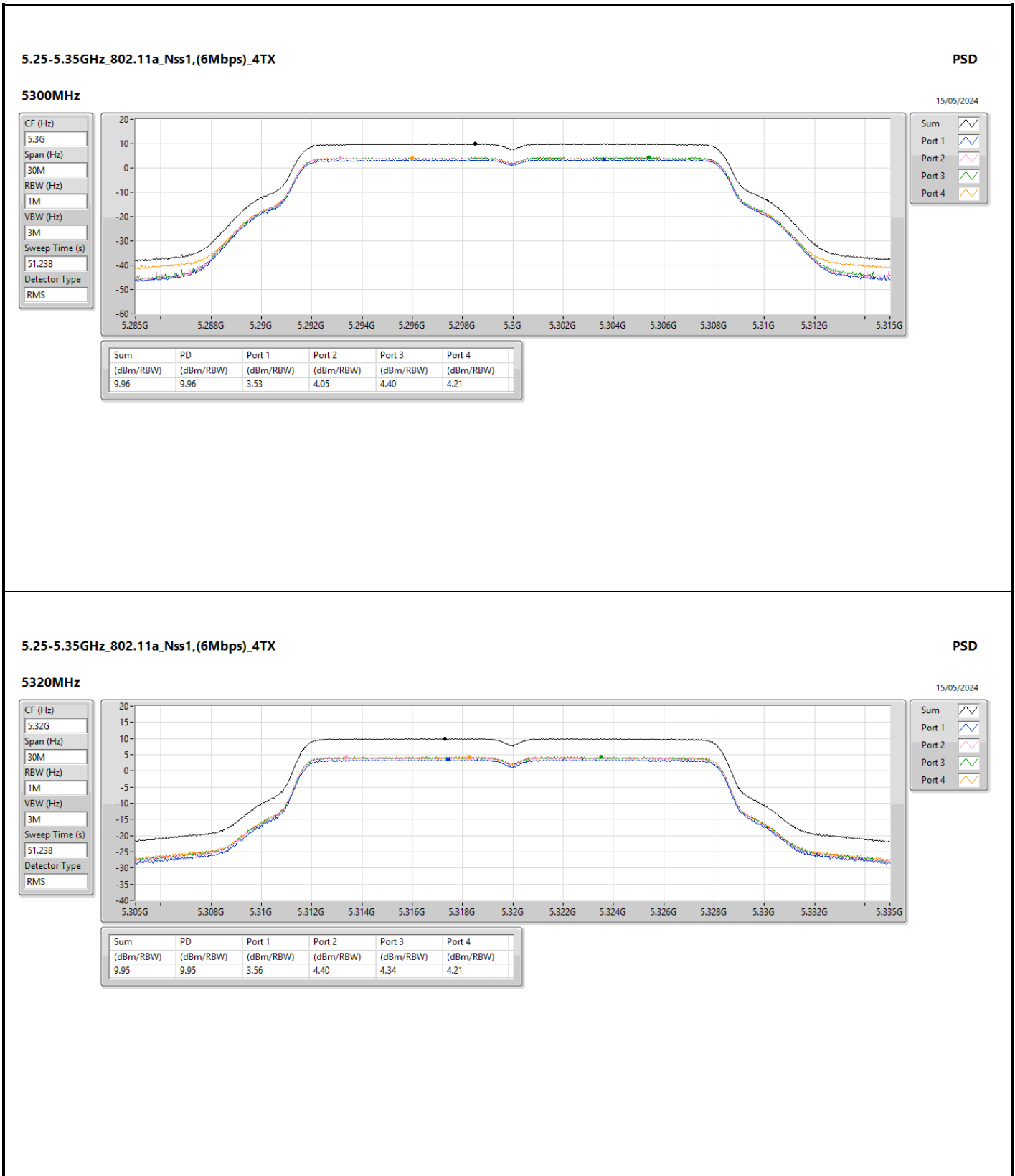
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.65	8.15	7.67	8.07	8.61	14.07	16.35
5200MHz	Pass	6.65	9.77	9.84	10.10	10.57	15.86	16.35
5240MHz	Pass	6.65	9.40	9.89	10.40	10.28	15.84	16.35
5260MHz	Pass	6.65	3.19	4.17	4.36	4.61	9.82	10.35
5300MHz	Pass	6.65	3.53	4.05	4.40	4.21	9.96	10.35
5320MHz	Pass	6.65	3.56	4.40	4.34	4.21	9.95	10.35
5500MHz	Pass	6.71	3.30	4.33	4.57	4.11	9.92	10.29
5580MHz	Pass	6.71	2.53	4.39	4.59	4.32	9.86	10.29
5700MHz	Pass	6.71	3.88	3.84	4.47	4.53	9.98	10.29
5720MHz Straddle 5.47-5.725GHz	Pass	6.71	3.95	3.92	4.60	4.69	10.16	10.29
5720MHz Straddle 5.725-5.85GHz	Pass	6.55	2.55	2.42	2.97	3.21	8.62	29.45
5745MHz	Pass	6.55	7.91	8.22	9.03	9.22	14.47	29.45
5785MHz	Pass	6.55	7.81	8.09	8.62	9.15	14.28	29.45
5825MHz	Pass	6.55	7.96	8.40	8.73	8.88	14.27	29.45
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.65	6.11	5.78	5.96	6.27	11.95	16.35
5200MHz	Pass	6.65	8.75	8.70	8.92	8.93	14.79	16.35
5240MHz	Pass	6.65	8.42	8.49	8.88	8.88	14.60	16.35
5260MHz	Pass	6.65	2.50	2.53	2.74	2.91	8.64	10.35
5300MHz	Pass	6.65	2.74	2.84	2.94	2.90	8.79	10.35
5320MHz	Pass	6.65	2.77	3.00	3.16	2.79	8.89	10.35
5500MHz	Pass	6.71	2.45	2.83	2.97	2.53	8.62	10.29
5580MHz	Pass	6.71	2.28	2.60	3.01	2.47	8.56	10.29
5700MHz	Pass	6.71	2.36	3.06	2.97	2.77	8.76	10.29
5720MHz Straddle 5.47-5.725GHz	Pass	6.71	3.04	3.57	3.50	3.75	9.44	10.29
5720MHz Straddle 5.725-5.85GHz	Pass	6.55	1.41	2.16	2.07	2.14	7.90	29.45
5745MHz	Pass	6.55	7.14	7.55	7.82	8.48	13.72	29.45
5785MHz	Pass	6.55	6.95	7.33	7.65	7.79	13.35	29.45
5825MHz	Pass	6.55	7.29	7.42	7.76	7.99	13.56	29.45
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.65	2.87	2.70	2.82	3.00	8.82	16.35
5230MHz	Pass	6.65	6.19	6.28	6.30	6.41	12.26	16.35
5270MHz	Pass	6.65	-0.02	-0.10	0.05	0.36	6.05	10.35
5310MHz	Pass	6.65	0.29	0.33	0.42	0.38	6.34	10.35
5510MHz	Pass	6.71	0.04	0.40	0.36	0.12	6.21	10.29
5550MHz	Pass	6.71	-0.18	-0.08	0.25	-0.01	5.96	10.29
5670MHz								
5710MHz Straddle 5.47-5.725GHz	Pass	6.71	0.98	0.93	1.18	1.44	7.09	10.29
5710MHz Straddle 5.725-5.85GHz	Pass	6.55	-0.73	-0.82	-0.64	-0.22	5.36	29.45
5755MHz	Pass	6.55	4.36	4.65	4.91	5.44	10.80	29.45
5795MHz	Pass	6.55	4.41	4.61	5.01	5.24	10.78	29.45
802.11be EHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.65	1.44	1.20	1.28	1.51	7.27	16.35
5290MHz	Pass	6.65	-2.30	-2.59	-2.20	-1.88	3.67	10.35
5530MHz	Pass	6.71	-2.65	-2.64	-2.46	-2.33	3.43	10.29
5610MHz	Pass	6.71	-2.81	-2.58	-2.63	-2.04	3.45	10.29
5690MHz Straddle 5.47-5.725GHz	Pass	6.71	-2.42	-2.27	-1.87	-1.50	3.97	10.29
5690MHz Straddle 5.725-5.85GHz	Pass	6.55	-4.32	-4.06	-4.23	-3.33	2.03	29.45
5775MHz	Pass	6.55	3.33	2.92	2.91	2.61	8.85	29.45
802.11be EHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	6.65	-1.89	-2.14	-1.71	-2.17	3.95	16.35
5250MHz Straddle 5.25-5.35GHz	Pass	6.65	-2.09	-1.86	-1.94	-1.92	3.81	10.35
5570MHz	Pass	6.71	-4.44	-4.77	-4.32	-4.52	1.45	10.29

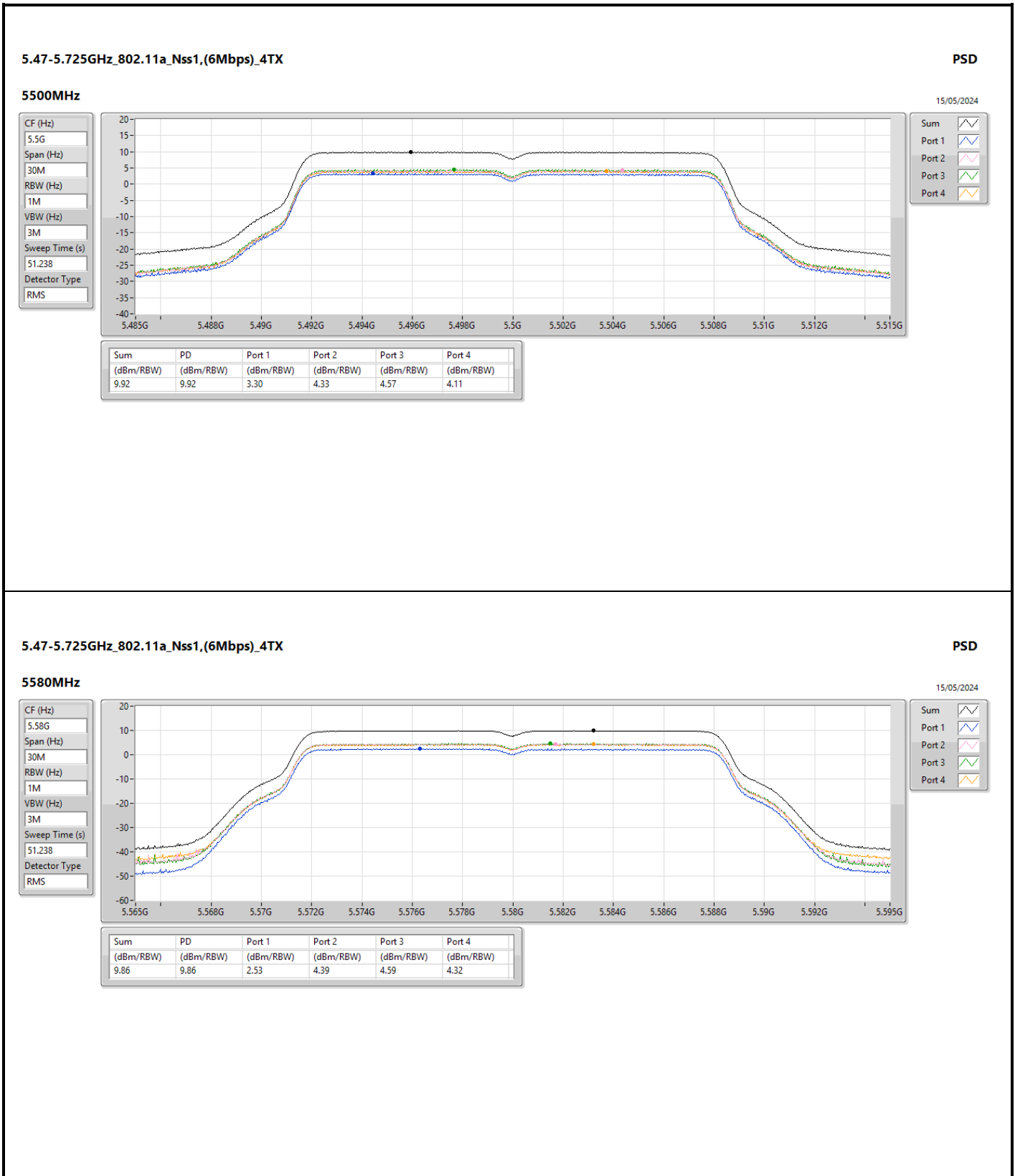


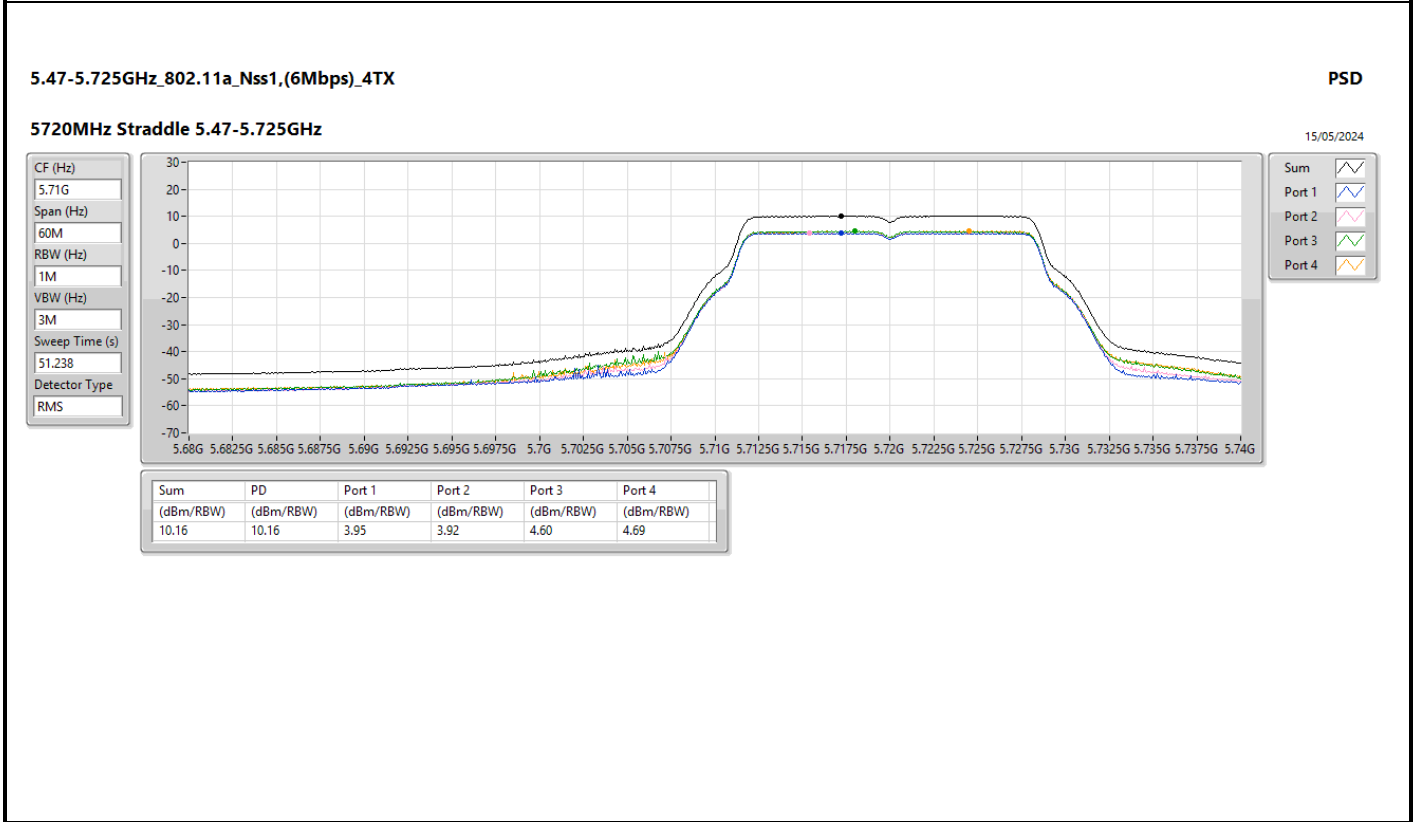
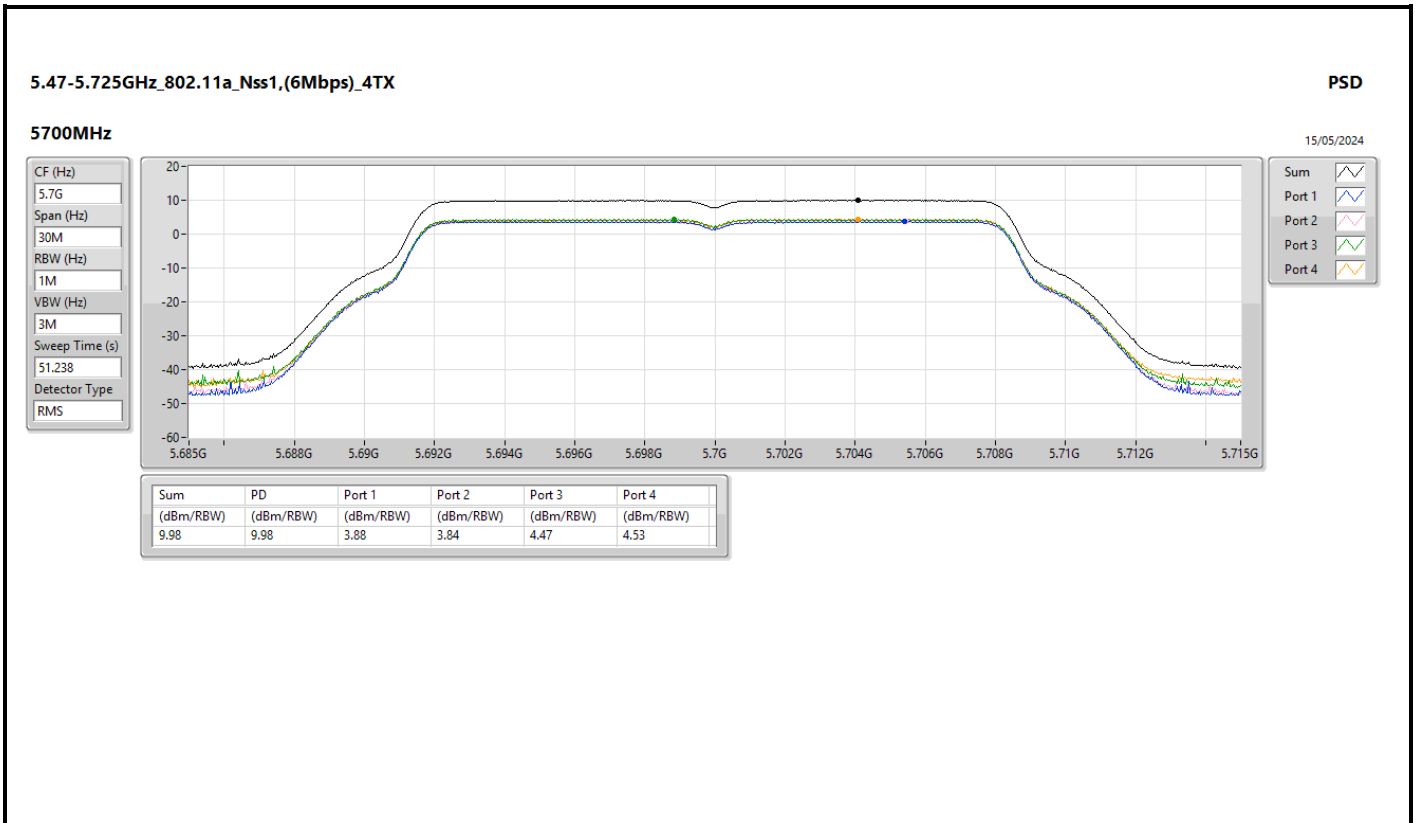
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

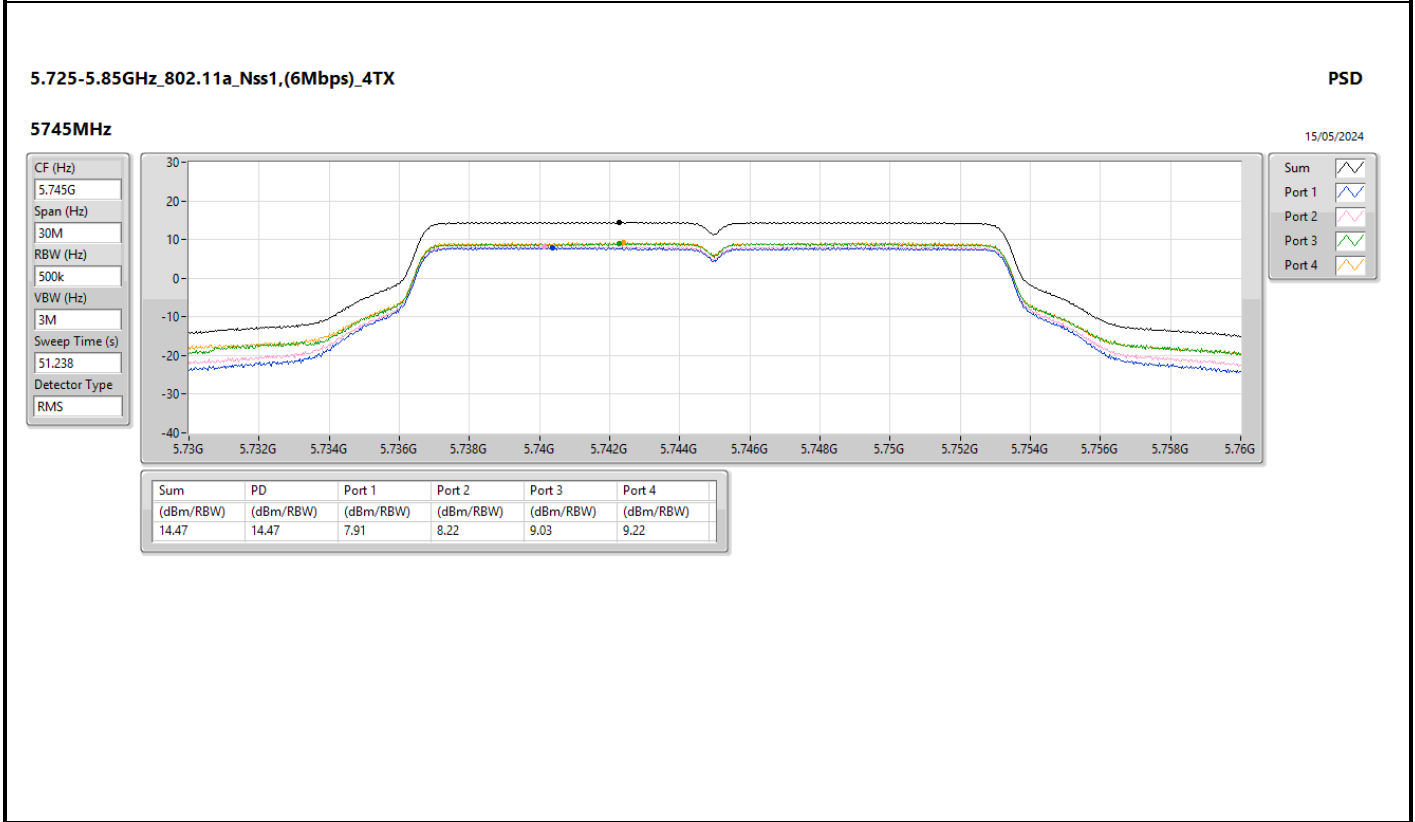
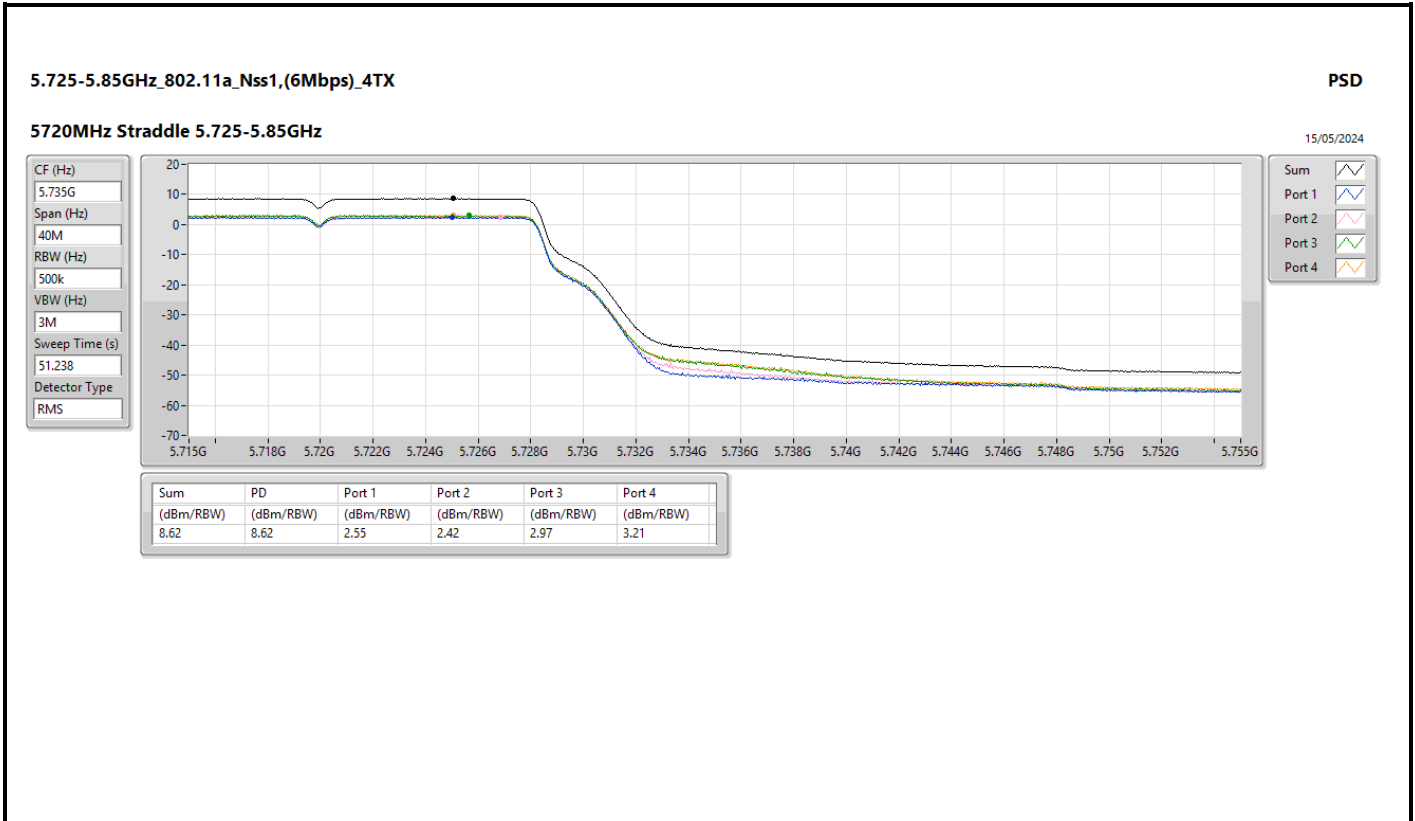


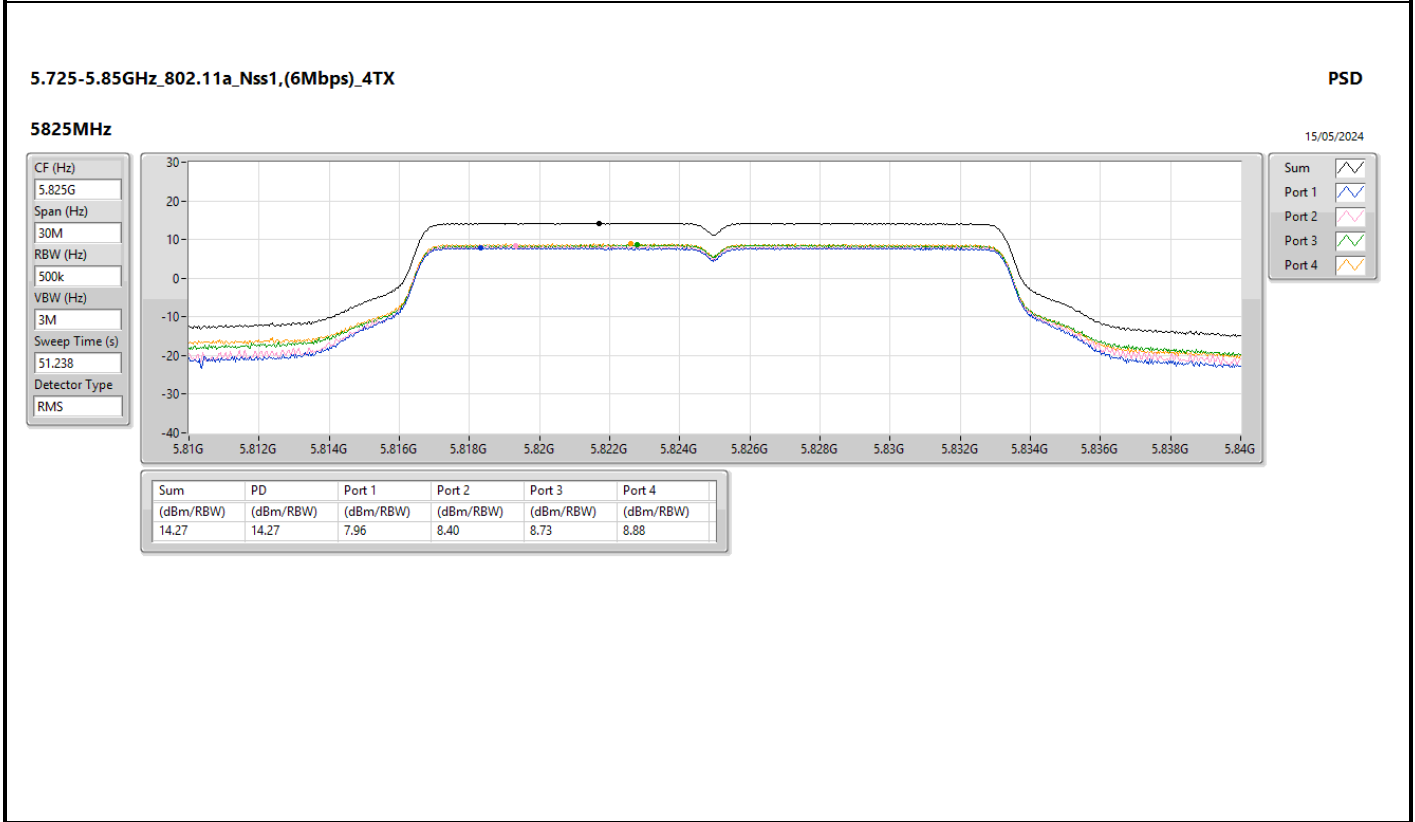
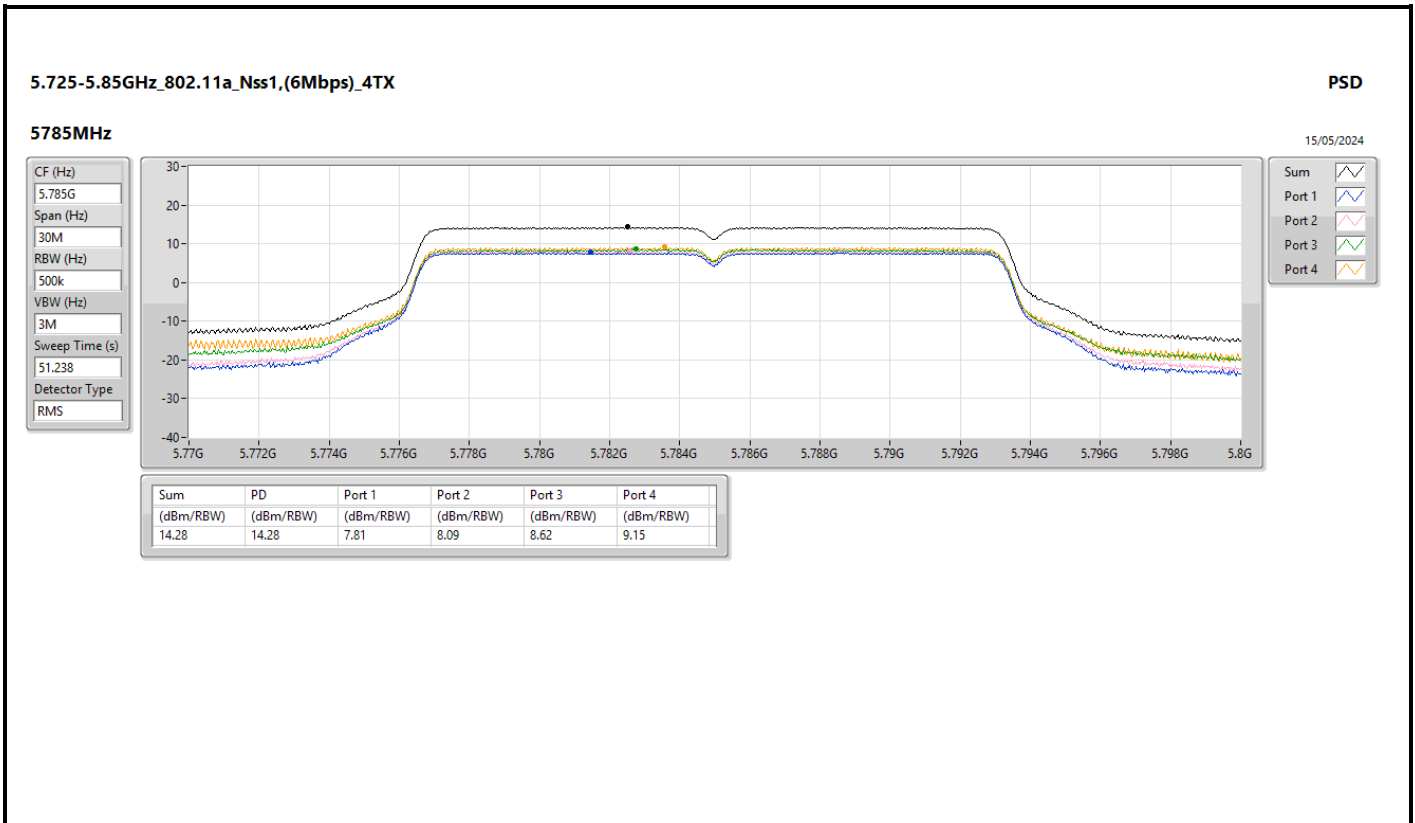


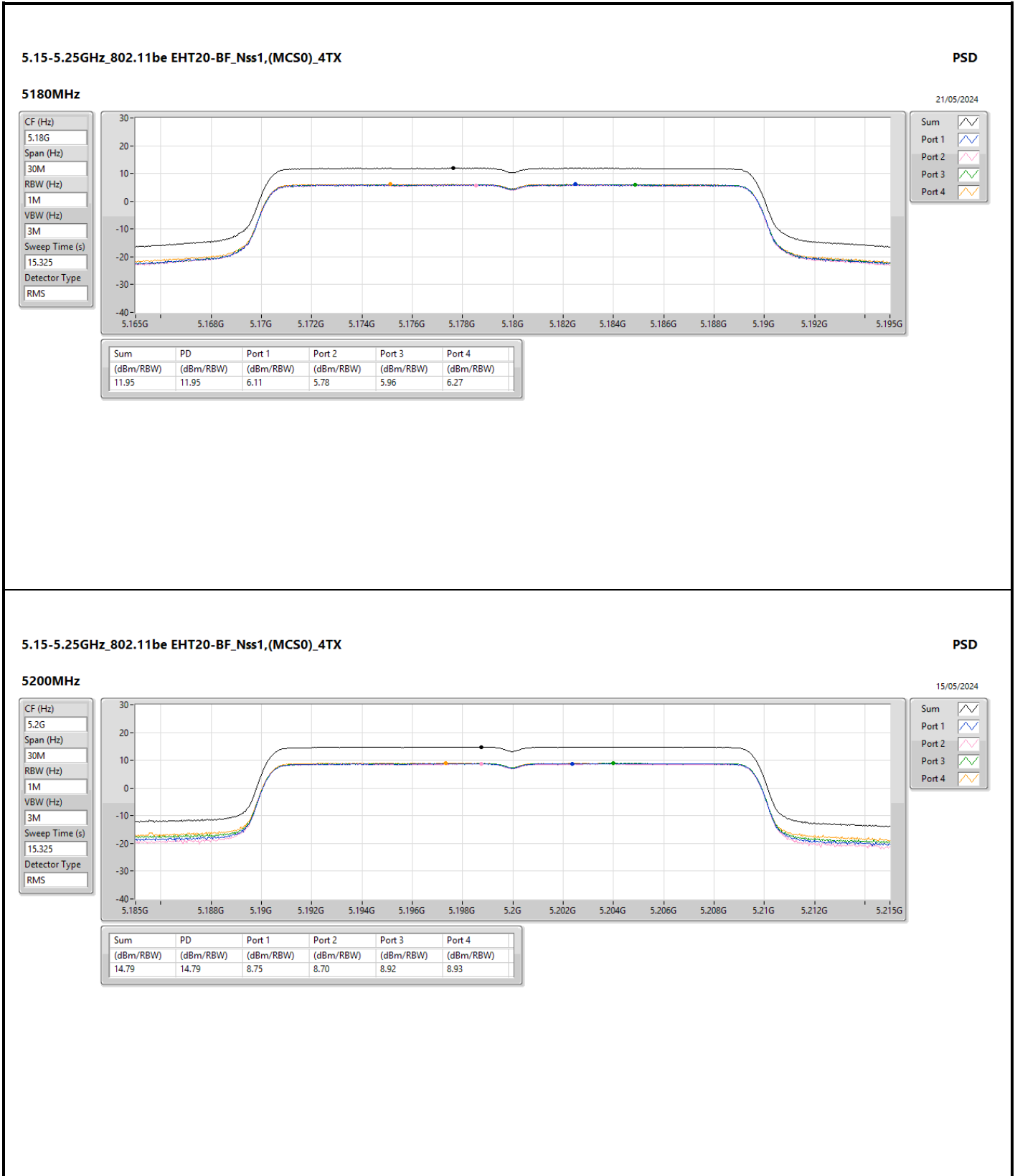


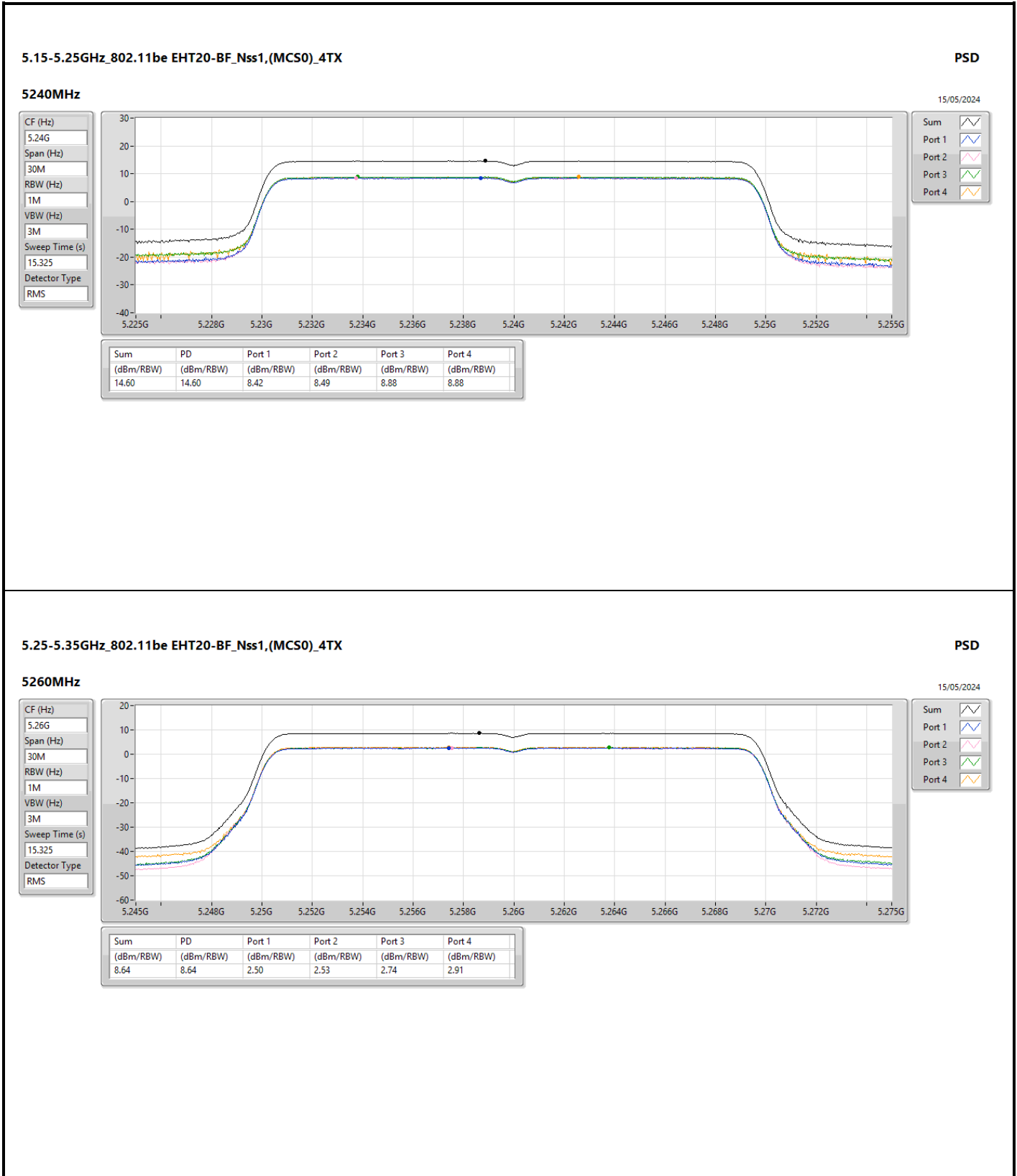


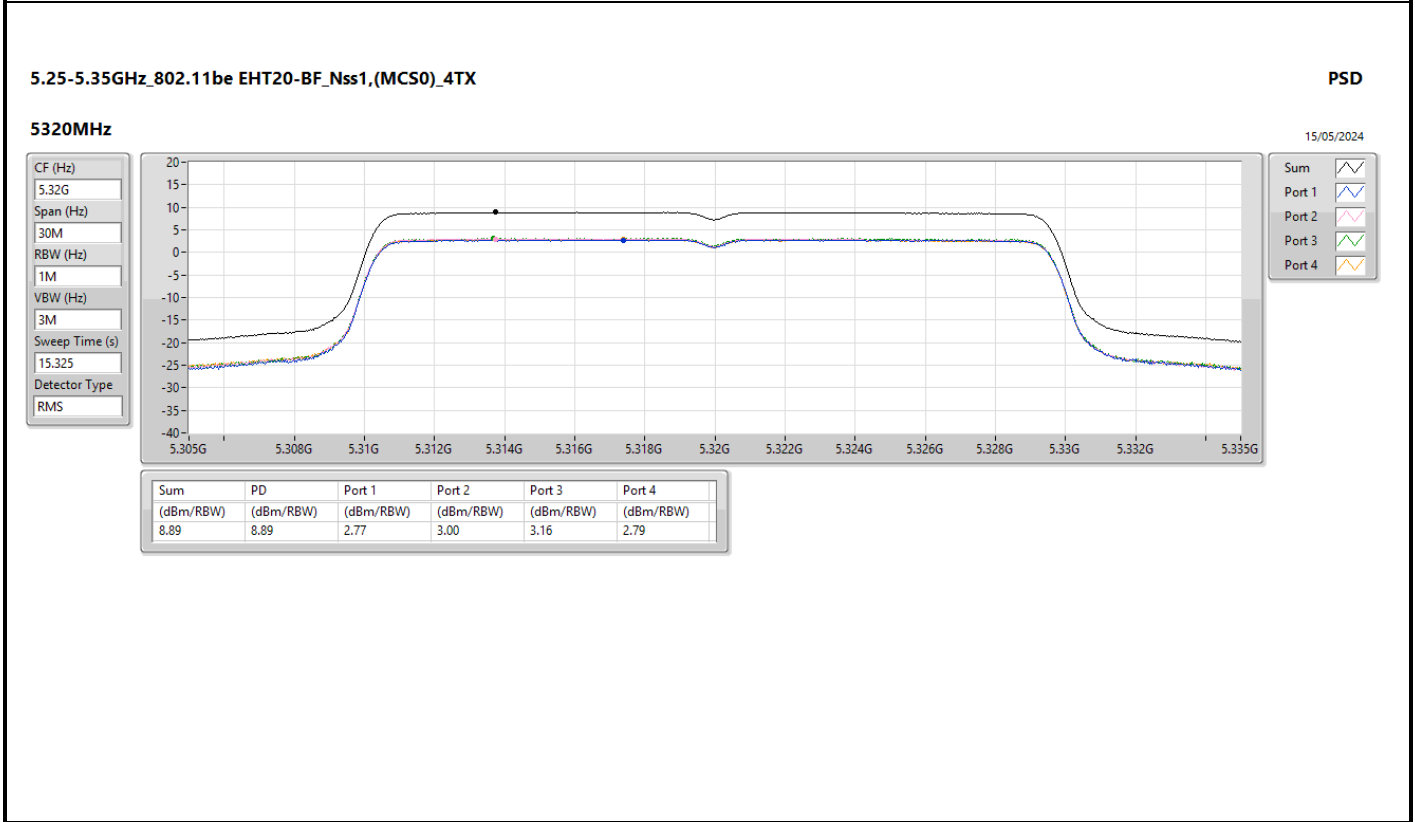
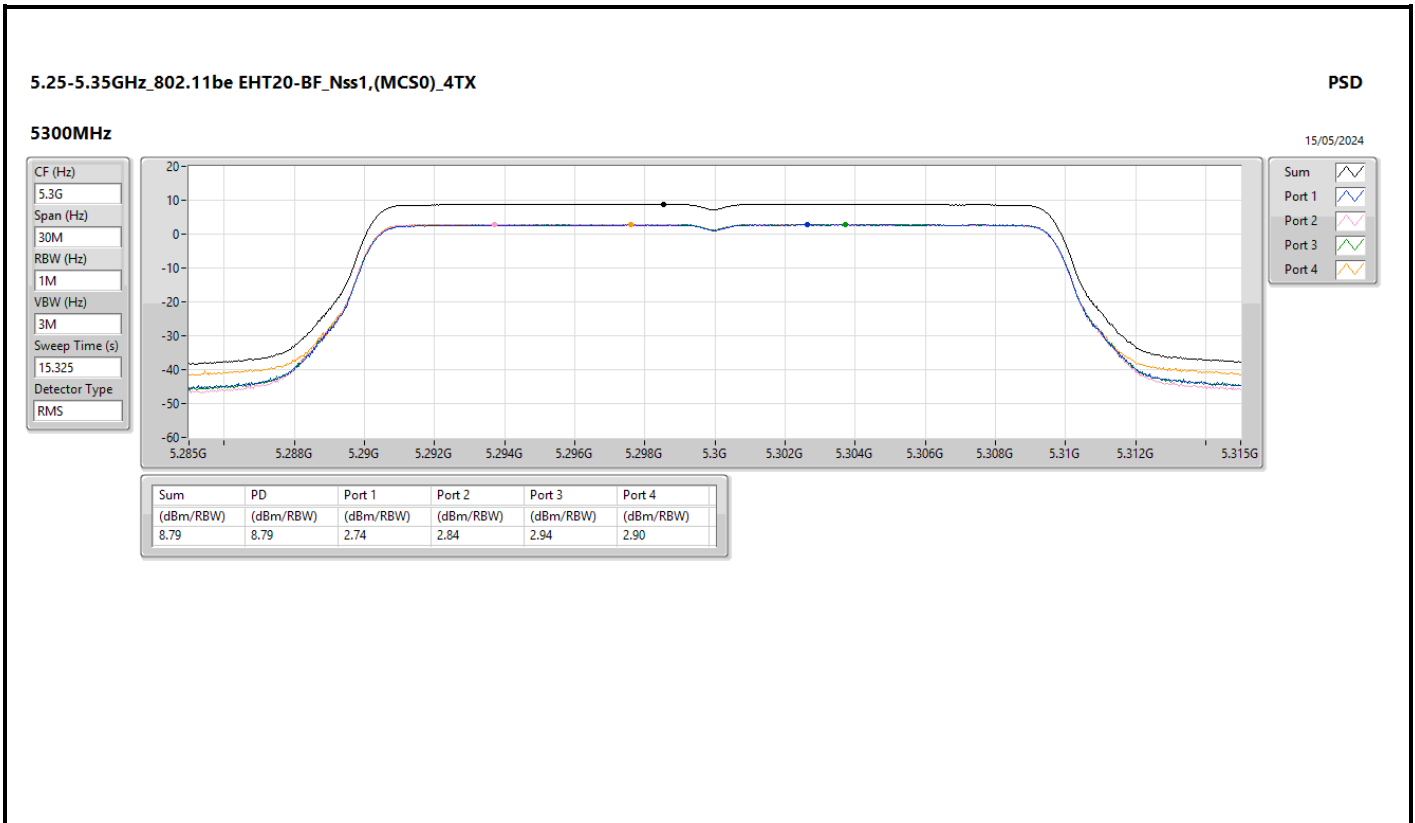


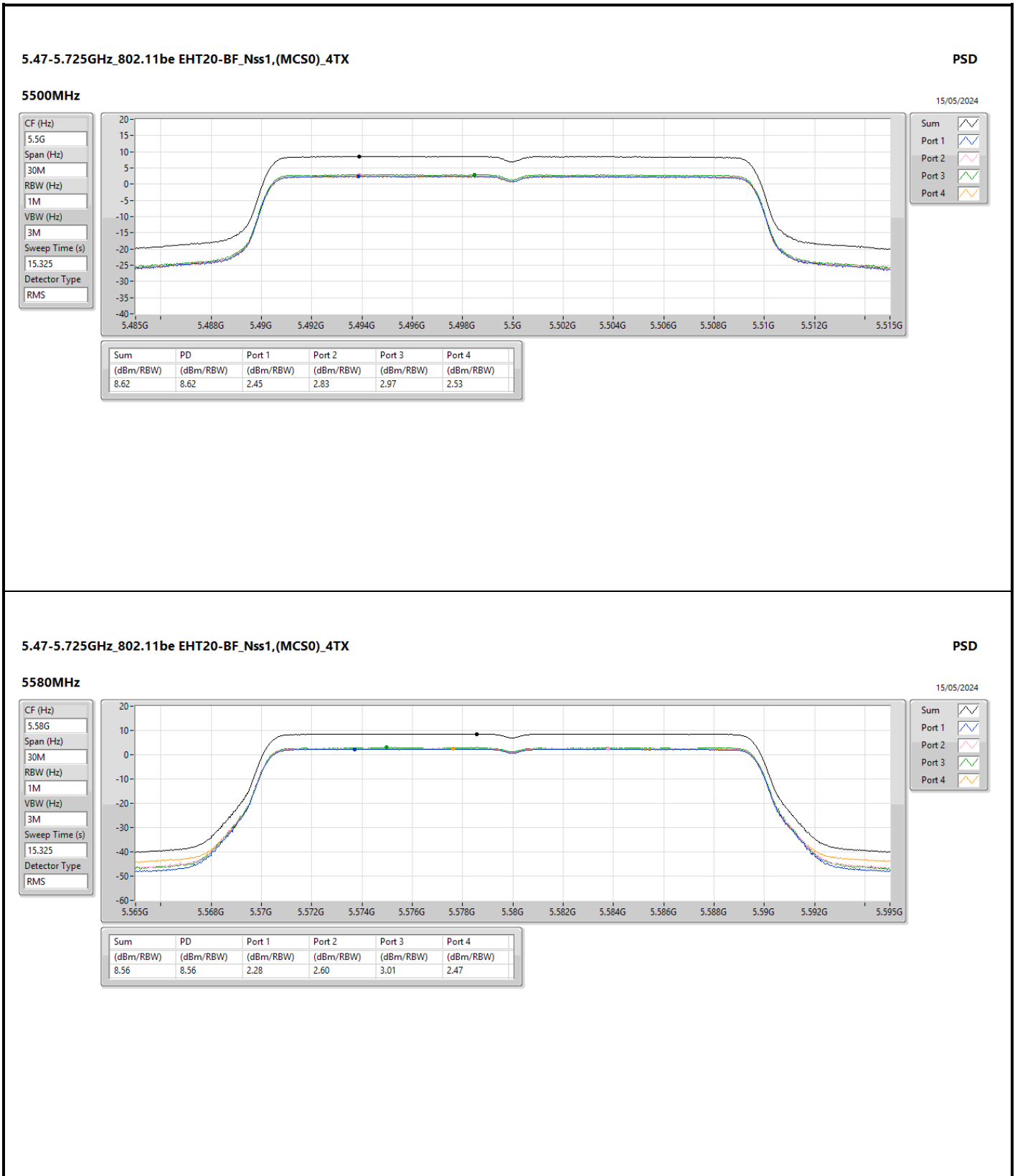


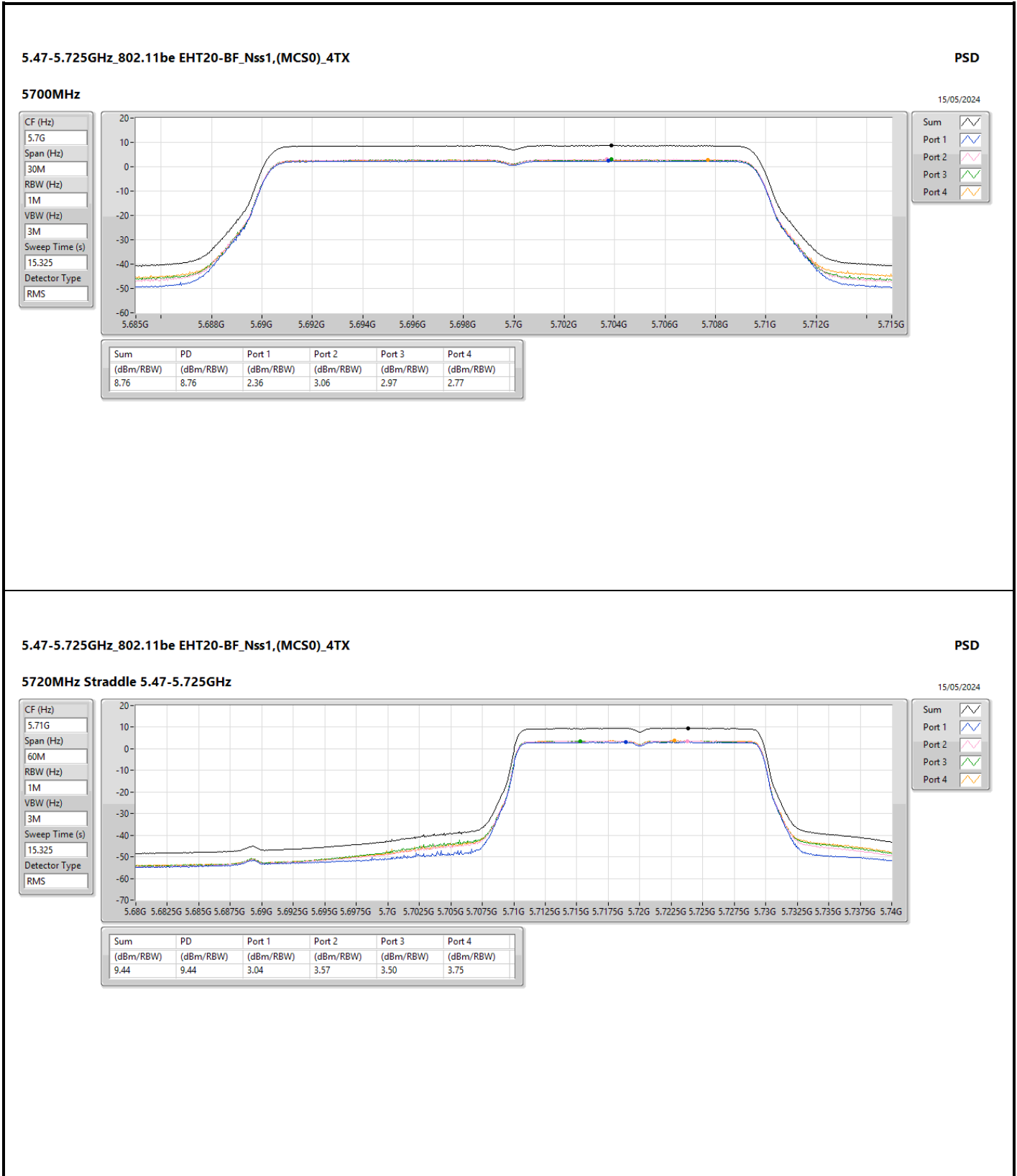


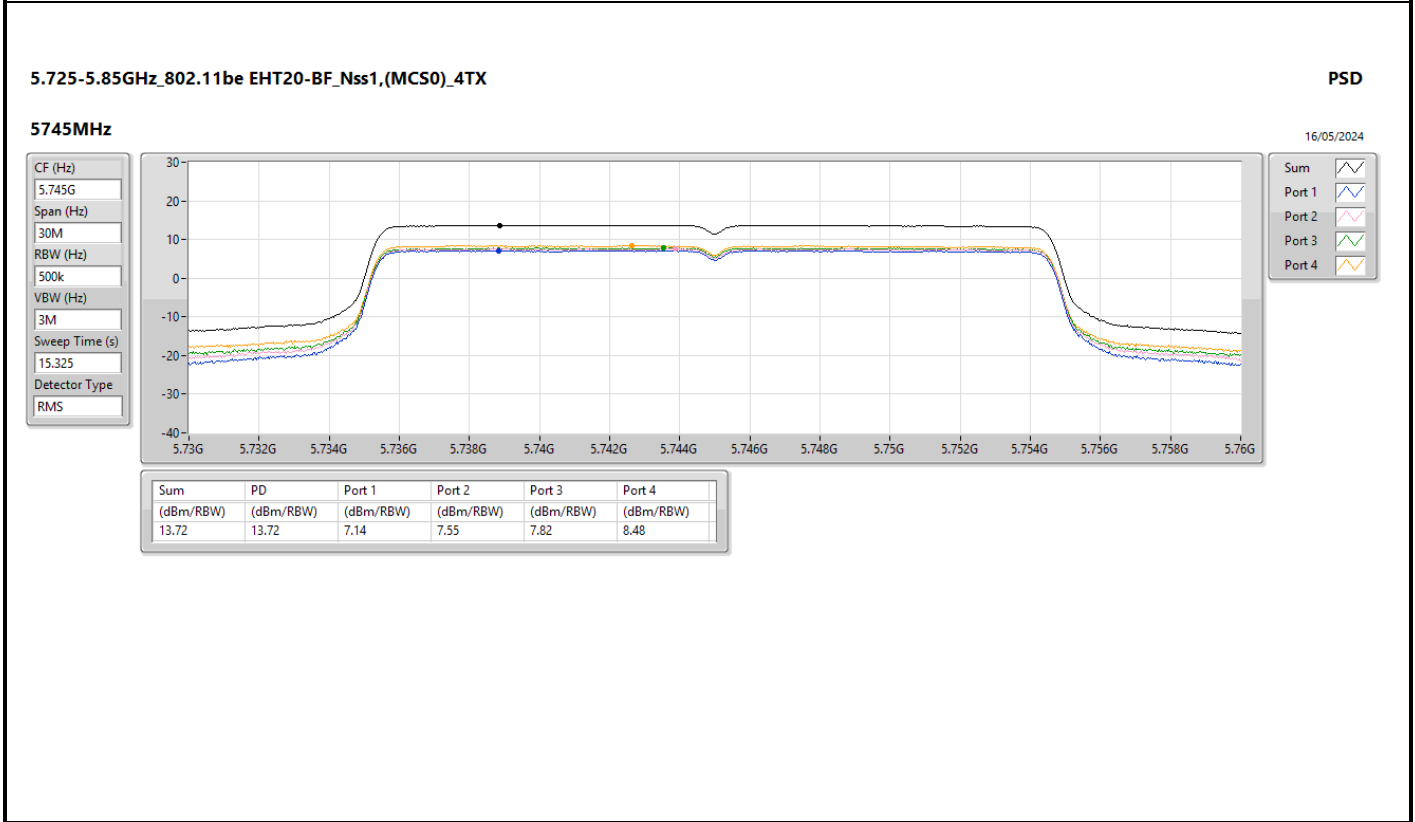
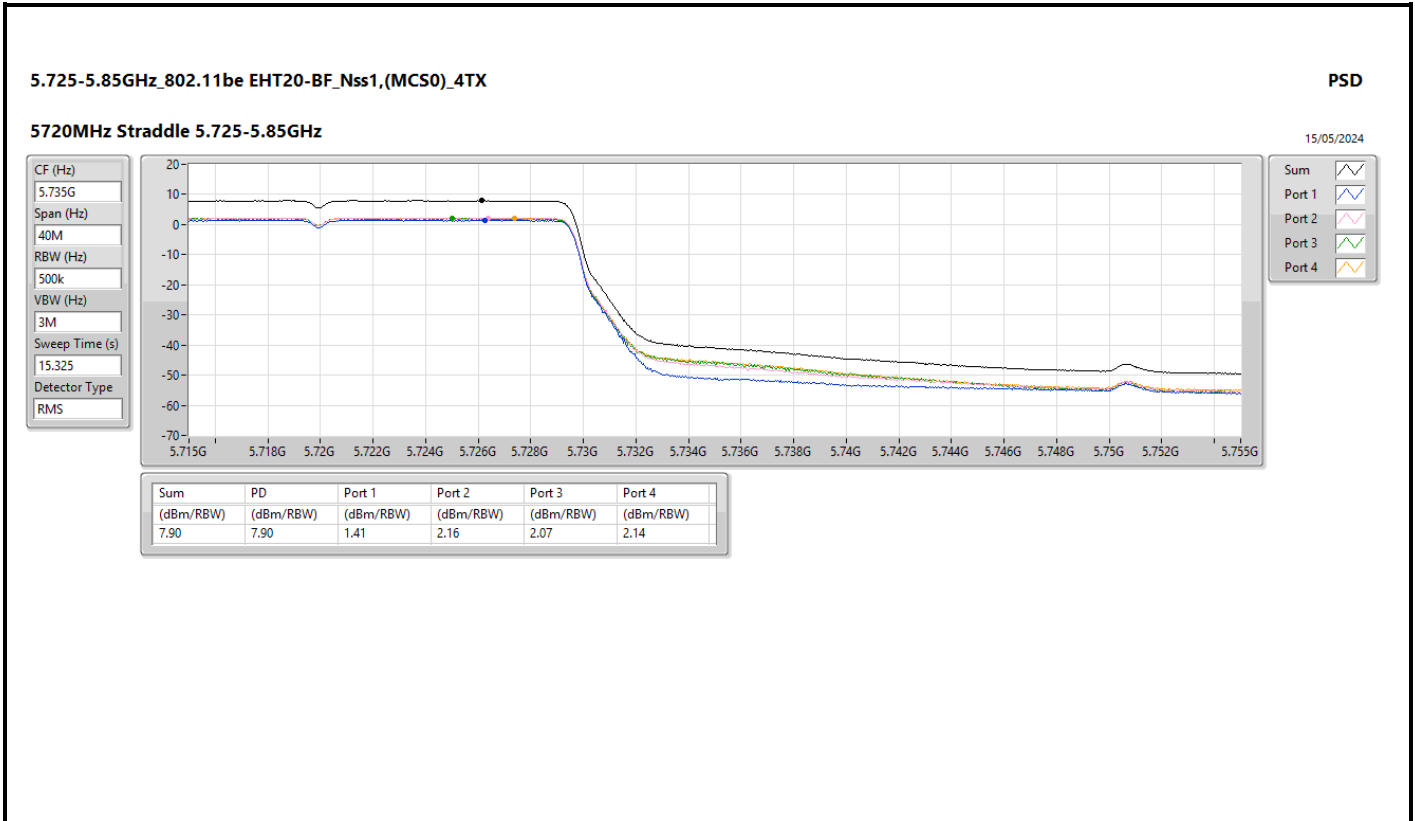


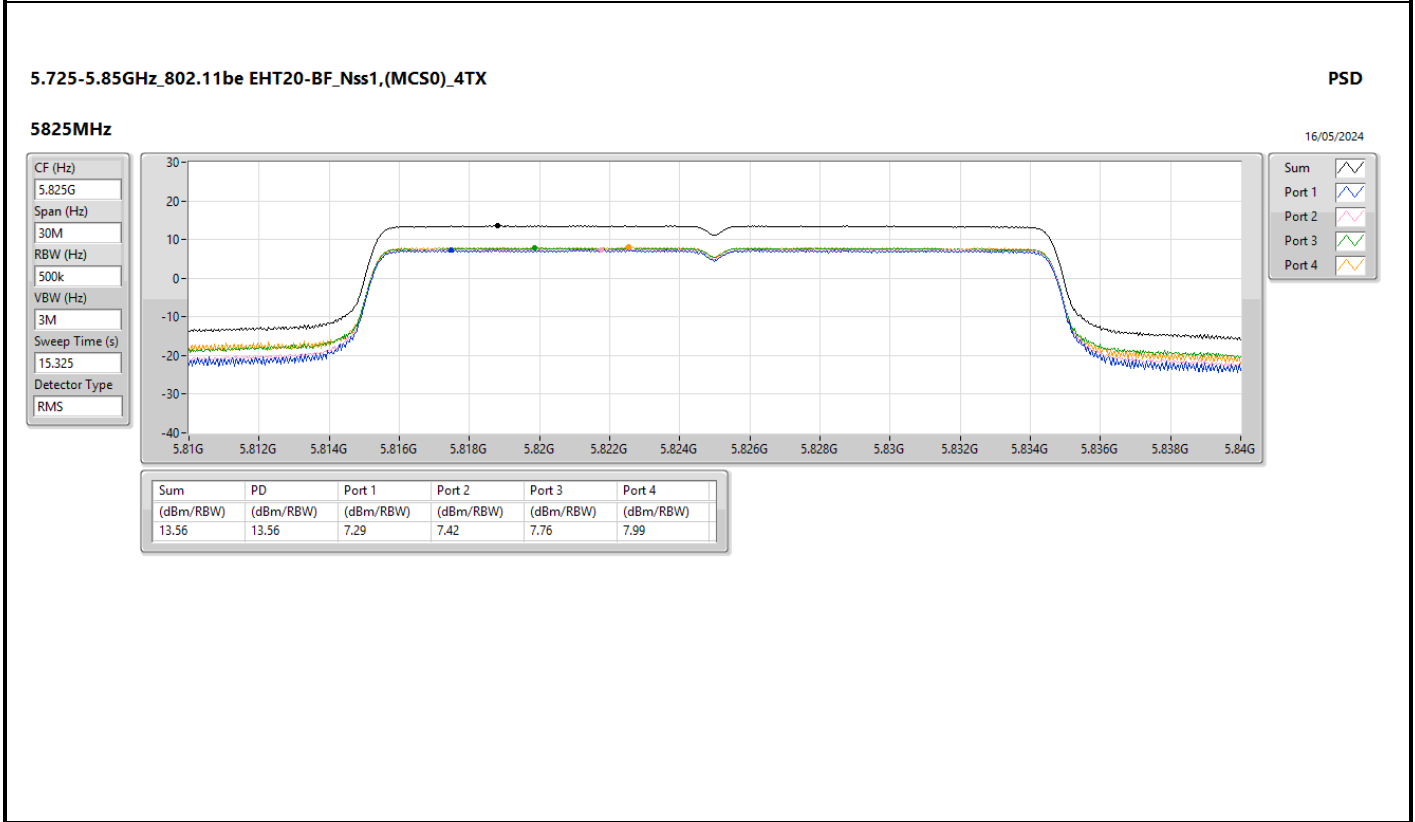
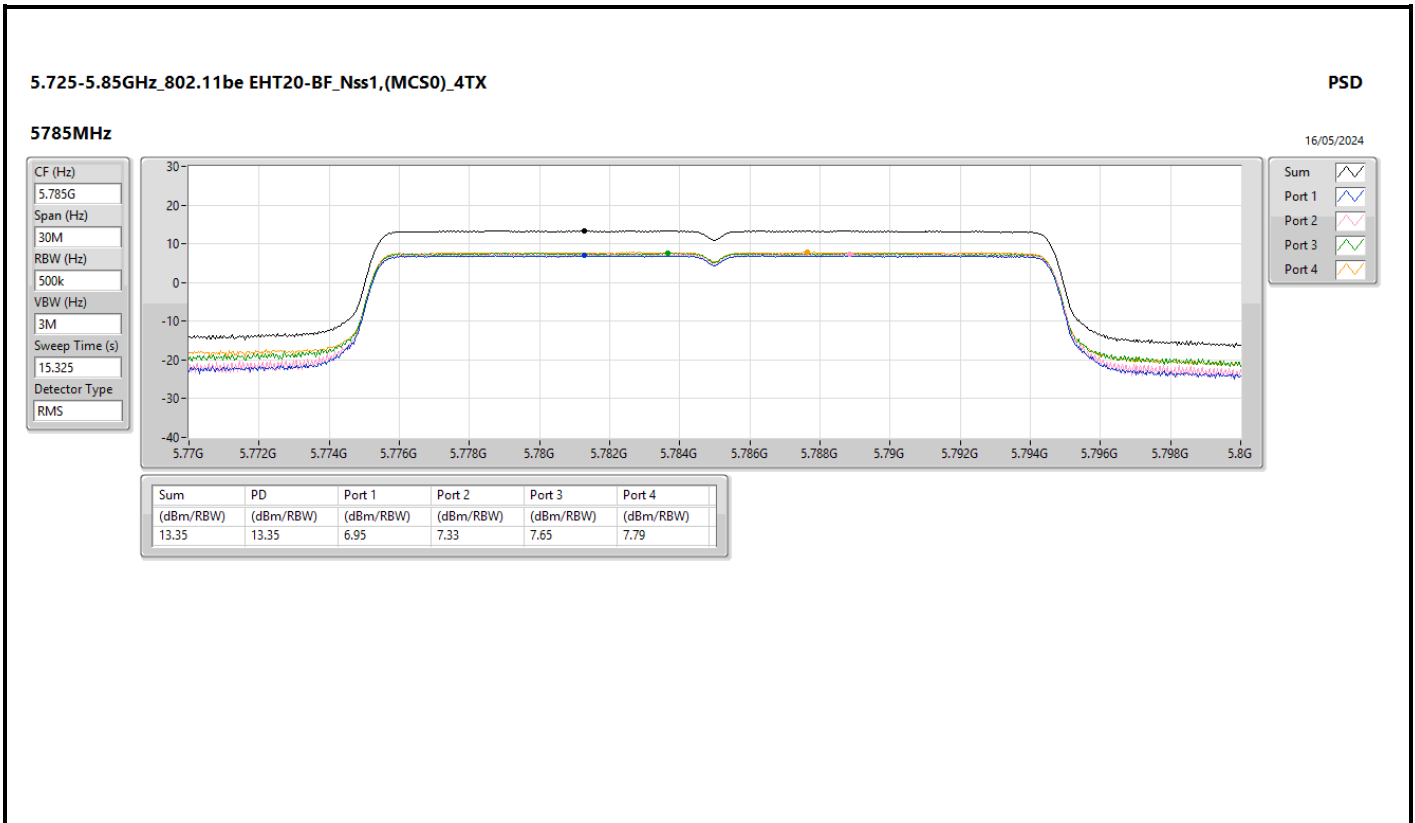


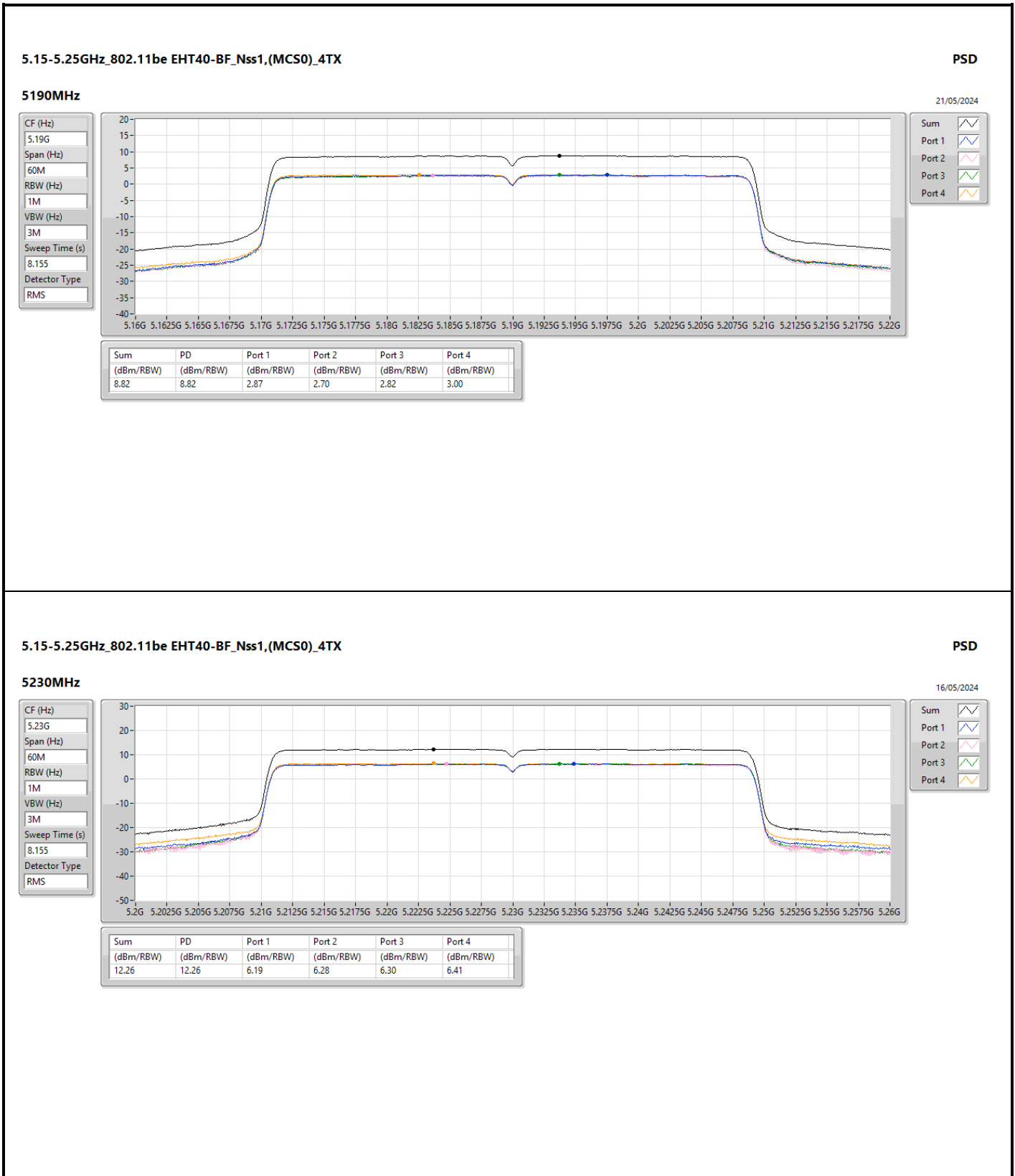


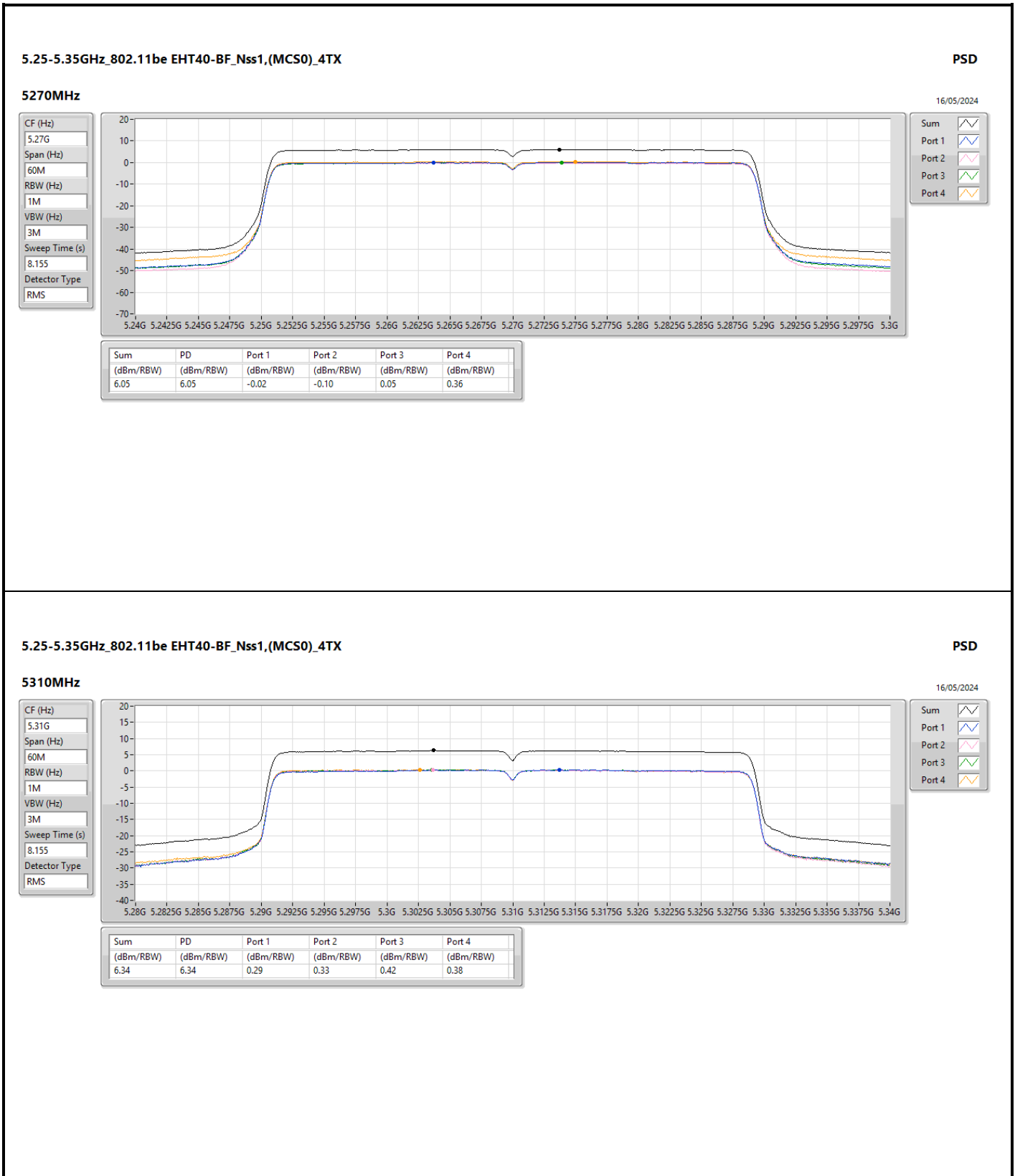


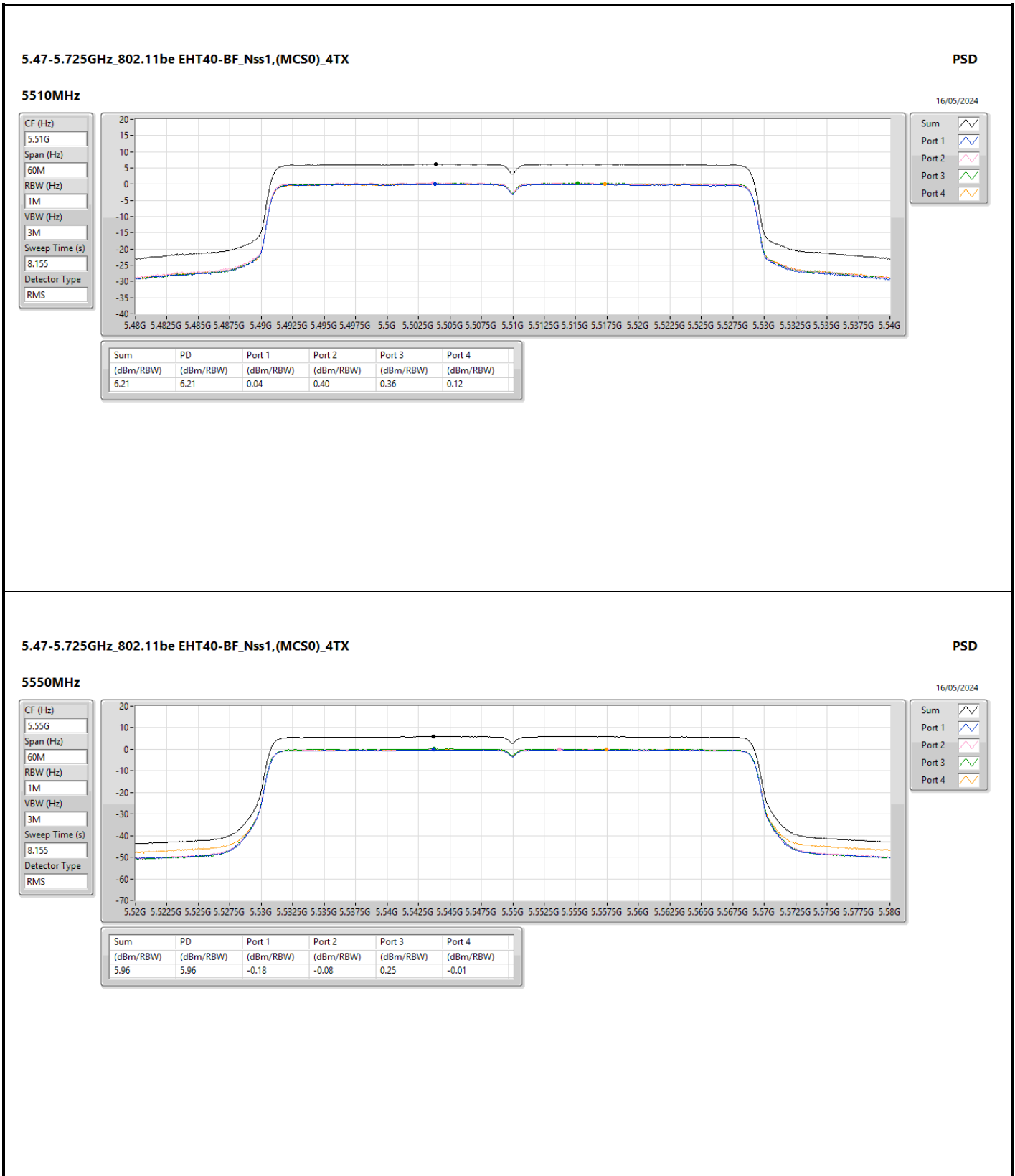


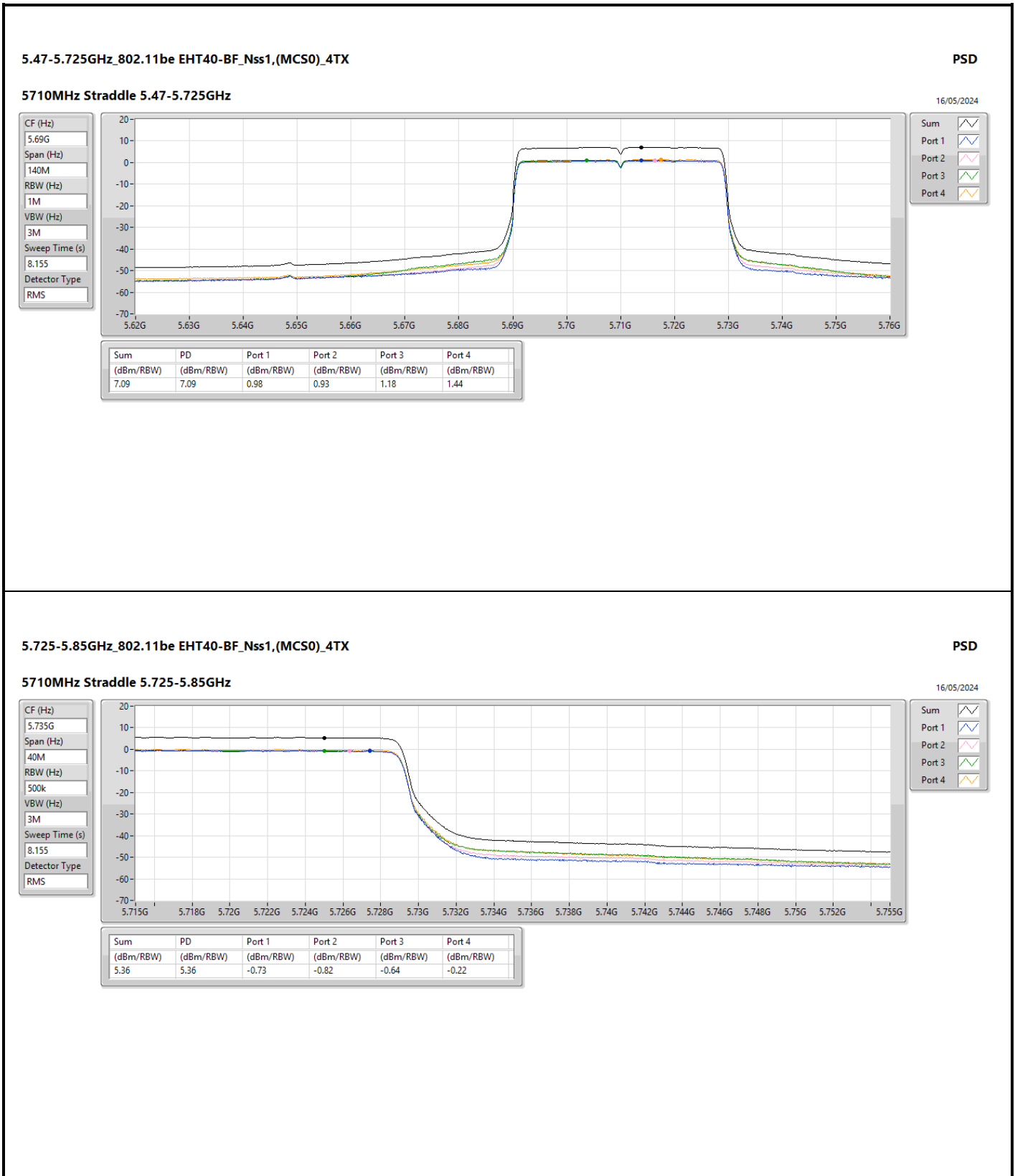


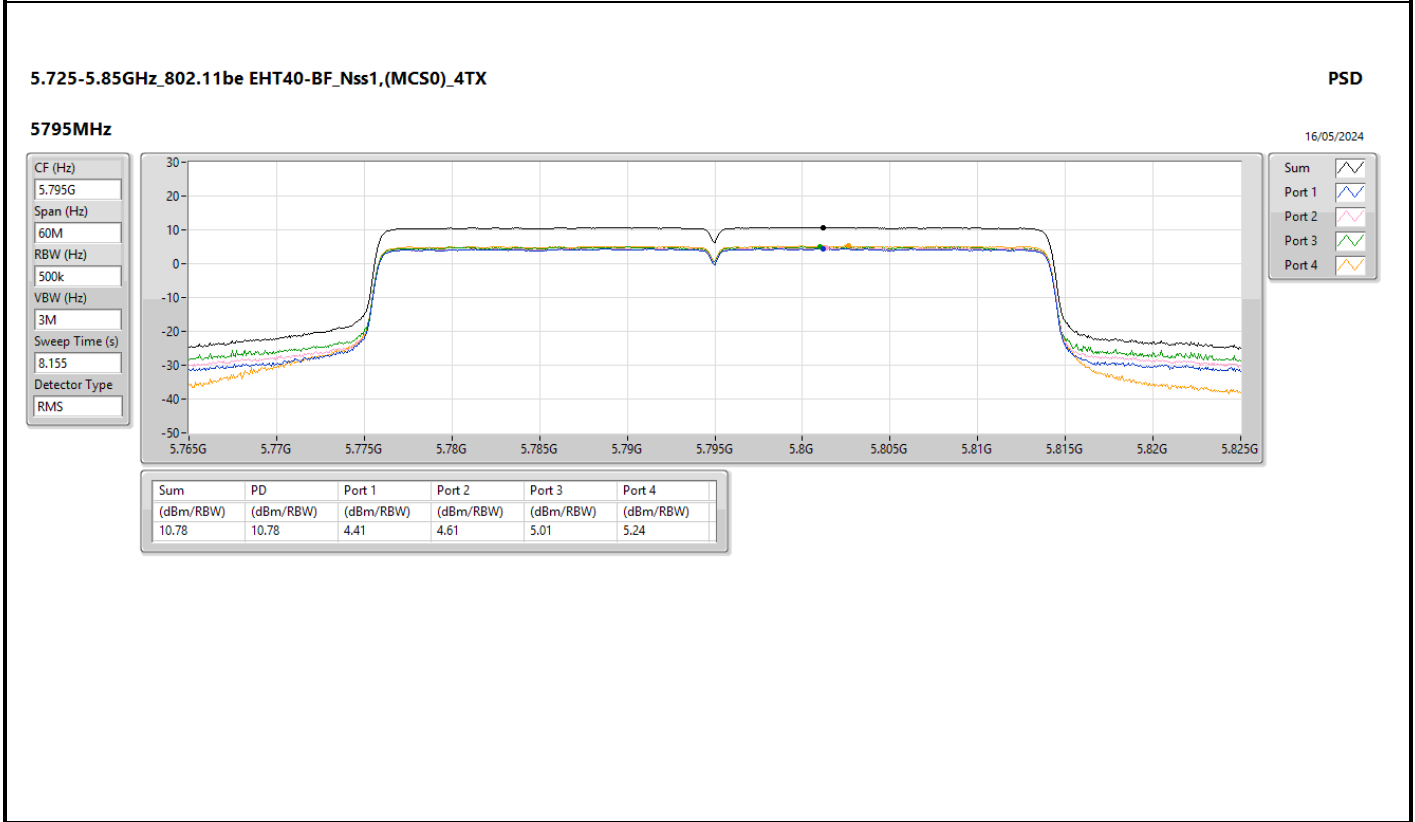
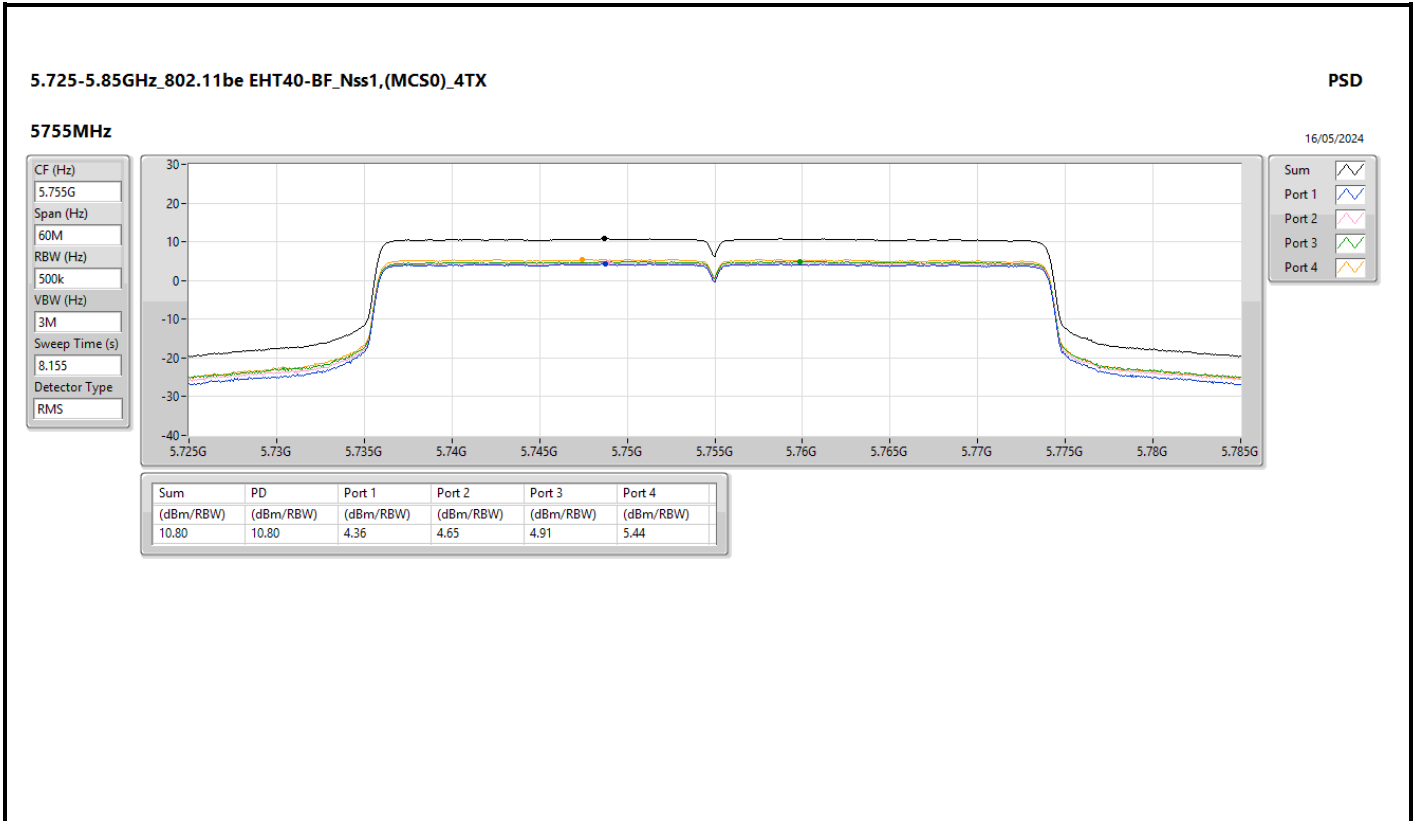


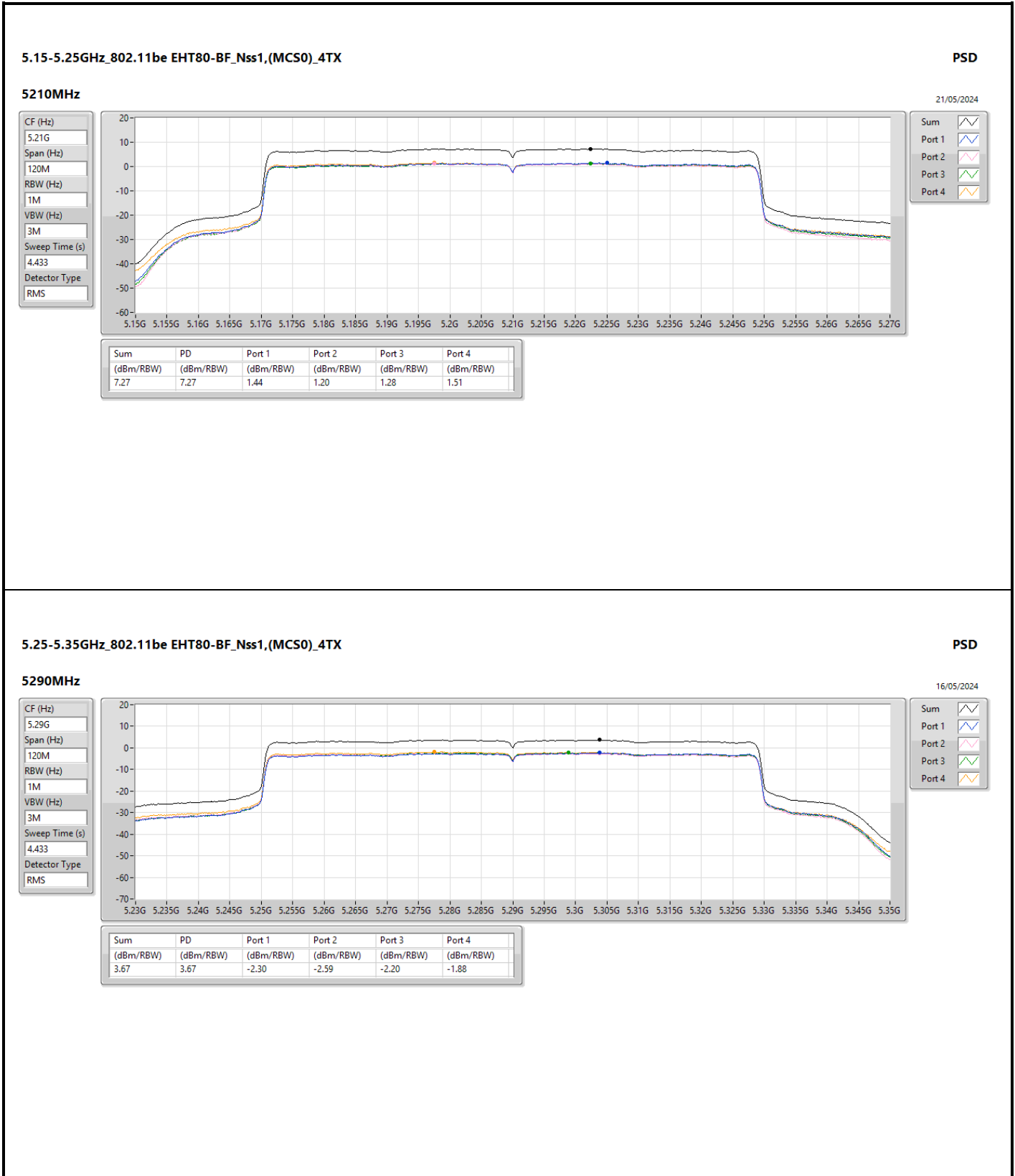


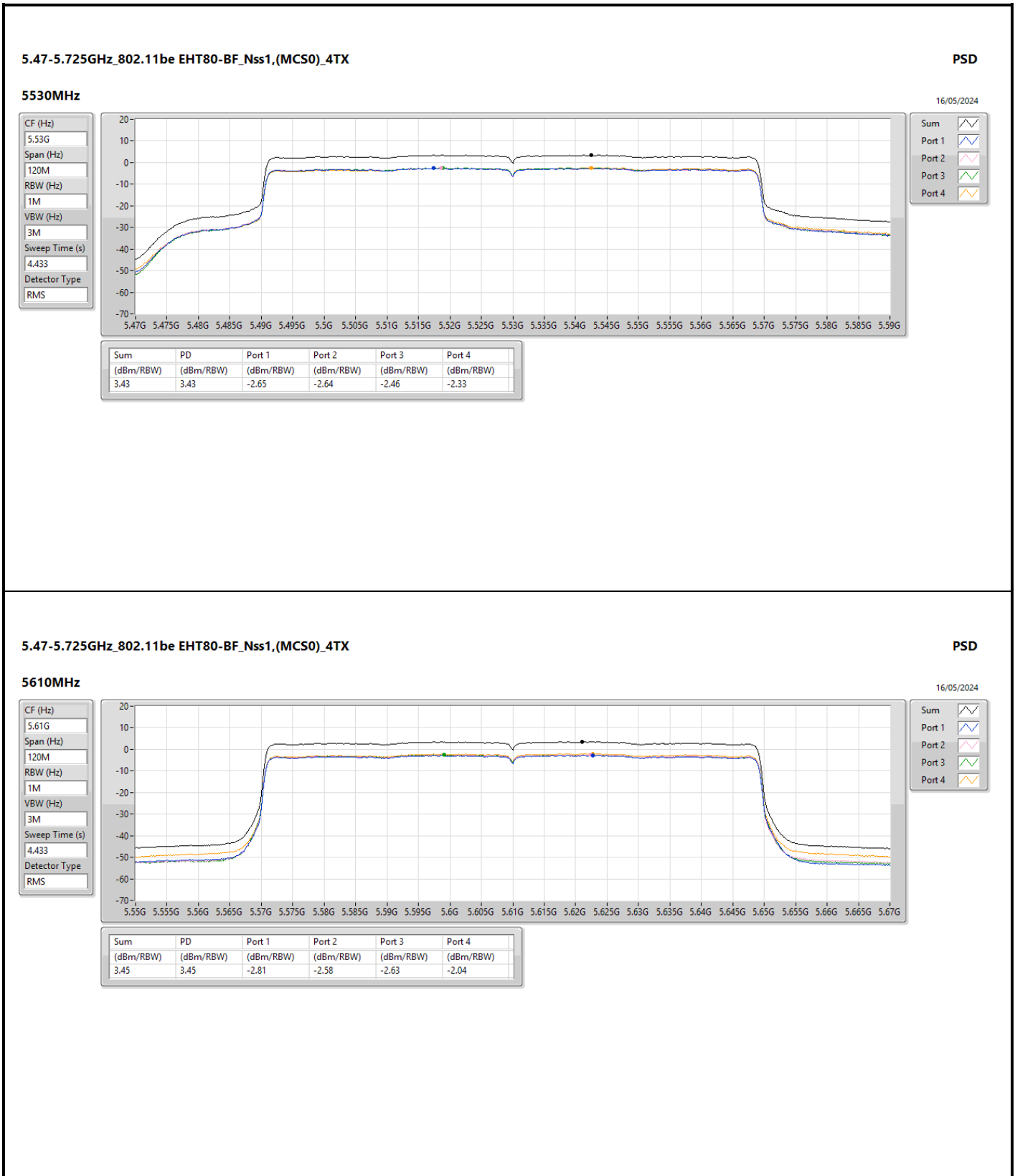




















Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11be EHT80-BF_Nss2,(MCS0)_4TX	8.26
5.725-5.85GHz	-
802.11be EHT80-BF_Nss2,(MCS0)_4TX	8.88

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)
802.11be EHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.64	2.60	1.96	2.21	2.59	8.26	17.00
5775MHz	Pass	3.54	2.50	3.02	3.13	3.16	8.88	30.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

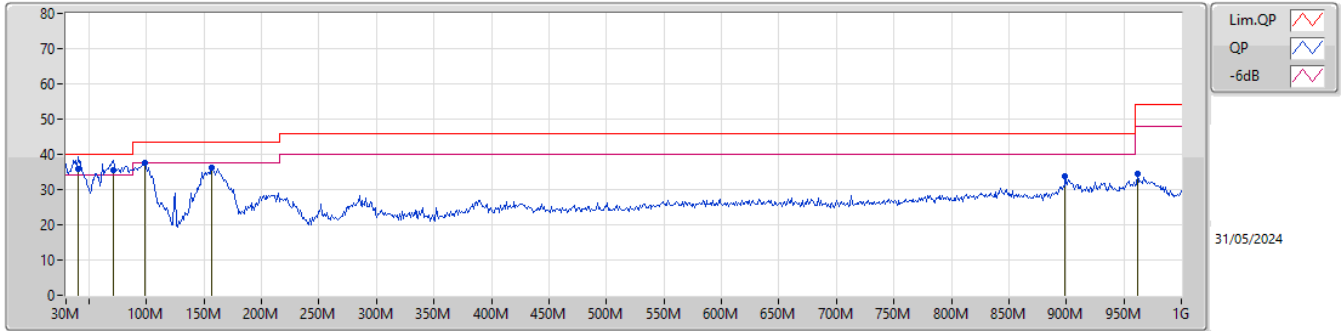




Summary

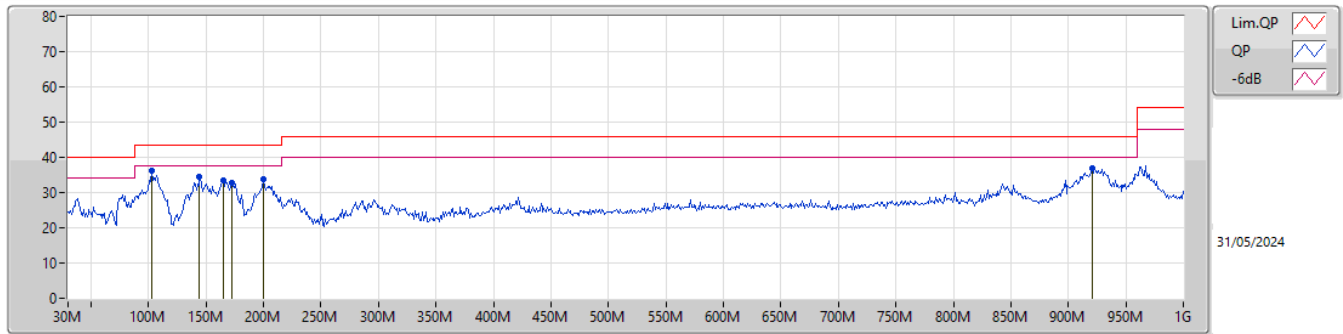
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	40.67M	35.88	40.00	-4.12	Vertical

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)
QP	40.67M	35.88	40.00	-4.12	-8.53	3	Vertical	2	1.00	"Worst"	44.41	18.46	0.82	27.81
QP	70.74M	35.36	40.00	-4.64	-14.15	3	Vertical	171	1.50	-	49.51	12.34	1.09	27.58
PK	98.87M	37.43	43.50	-6.07	-9.63	3	Vertical	164	1.00	-	47.06	16.72	1.25	27.60
PK	157.07M	36.06	43.50	-7.44	-9.83	3	Vertical	317	1.00	-	45.89	16.15	1.57	27.55
PK	899.12M	33.86	46.00	-12.14	2.13	3	Vertical	210	1.00	-	31.73	26.55	3.80	28.22
PK	962.17M	34.62	54.00	-19.38	2.73	3	Vertical	104	1.25	-	31.89	26.83	3.89	27.99

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	102.75M	36.14	43.50	-7.36	-9.02	3	Horizontal	255	3.00	"Worst"	45.16	17.30	1.28	27.60
PK	144.46M	34.52	43.50	-8.98	-9.21	3	Horizontal	95	2.00	-	43.73	16.86	1.50	27.57
PK	164.83M	33.44	43.50	-10.06	-10.04	3	Horizontal	225	2.00	-	43.48	15.89	1.60	27.53
PK	172.59M	32.88	43.50	-10.62	-10.28	3	Horizontal	79	2.00	-	43.16	15.59	1.64	27.51
PK	199.75M	33.80	43.50	-9.70	-10.71	3	Horizontal	251	1.00	-	44.51	14.97	1.75	27.43
PK	920.46M	37.03	46.00	-8.97	2.18	3	Horizontal	209	1.00	-	34.85	26.48	3.83	28.13

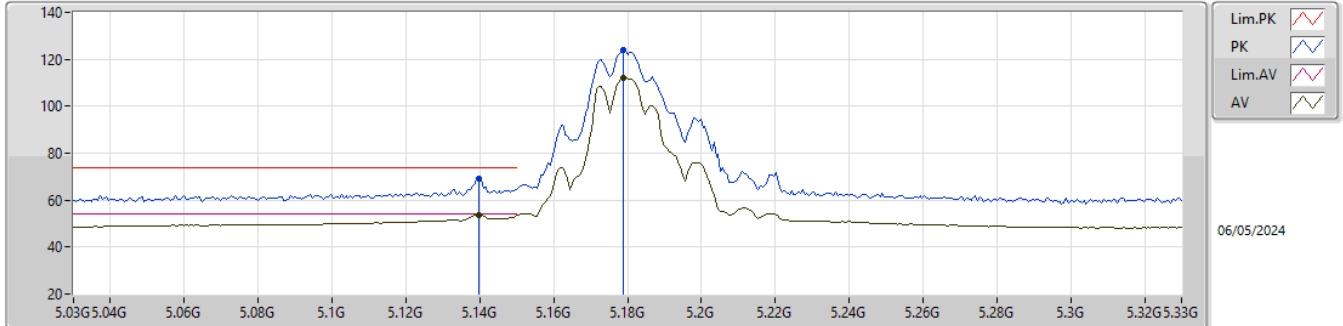


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin	Dist	Condition	Azimuth	Height	Comments
						(dB)	(m)		(°)	(m)	
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11be EHT160-BF_Nss1,(MCS0)_4TX	Pass	AV	5.1012G	53.97	54.00	-0.03	3	Vertical	313	2.22	-

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

5180MHz_TX

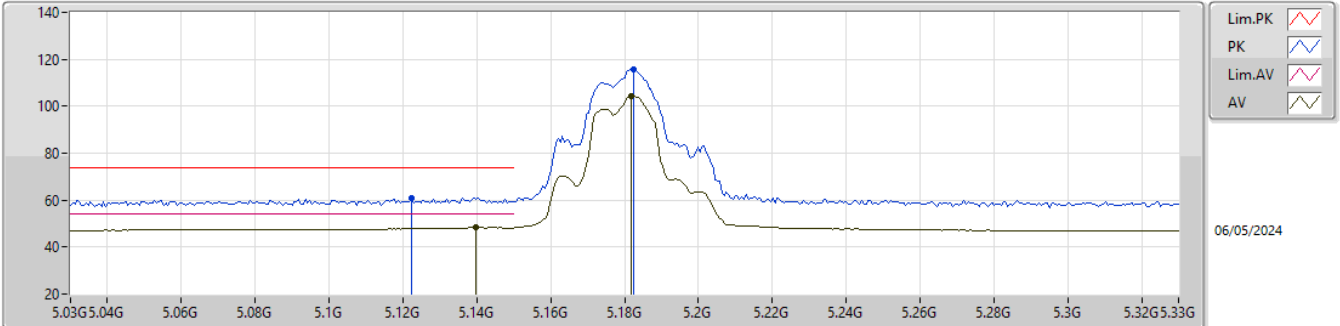


EUT_Y_4TX
Setting 88
06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1398G	68.94	74.00	-5.06	61.29	3	Vertical	220	1.87	-	32.10	6.91	31.36
AV	5.1398G	53.82	54.00	-0.18	46.17	3	Vertical	220	1.87	-	32.10	6.91	31.36
PK	5.1788G	124.00	Inf	-Inf	116.52	3	Vertical	220	1.87	-	31.93	6.93	31.38
AV	5.1788G	112.24	Inf	-Inf	104.76	3	Vertical	220	1.87	-	31.93	6.93	31.38

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

5180MHz_TX

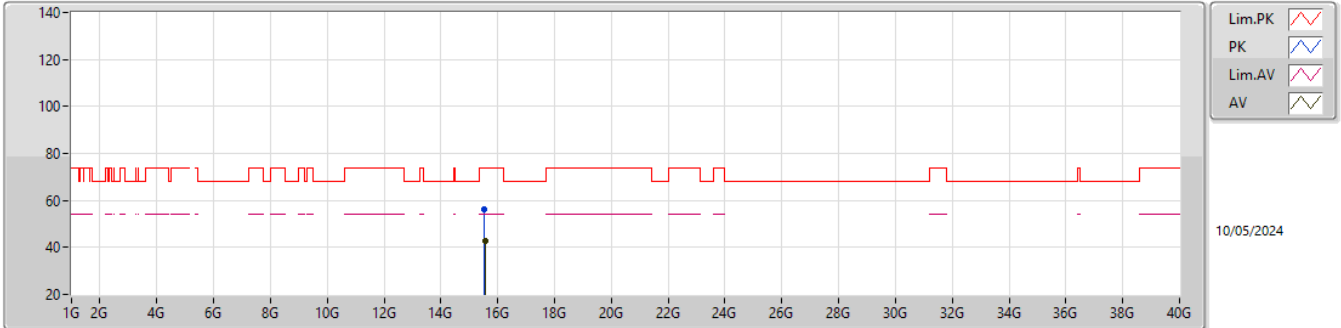


EUT_Y_4TX
 Setting 88
 06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1224G	60.81	74.00	-13.19	53.16	3	Horizontal	142	1.78	-	32.10	6.90	31.35
AV	5.1398G	48.61	54.00	-5.39	40.96	3	Horizontal	142	1.78	-	32.10	6.91	31.36
PK	5.1824G	115.66	Inf	-Inf	108.20	3	Horizontal	142	1.78	-	31.91	6.93	31.38
AV	5.1818G	104.37	Inf	-Inf	96.91	3	Horizontal	142	1.78	-	31.91	6.93	31.38

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

5180MHz_TX

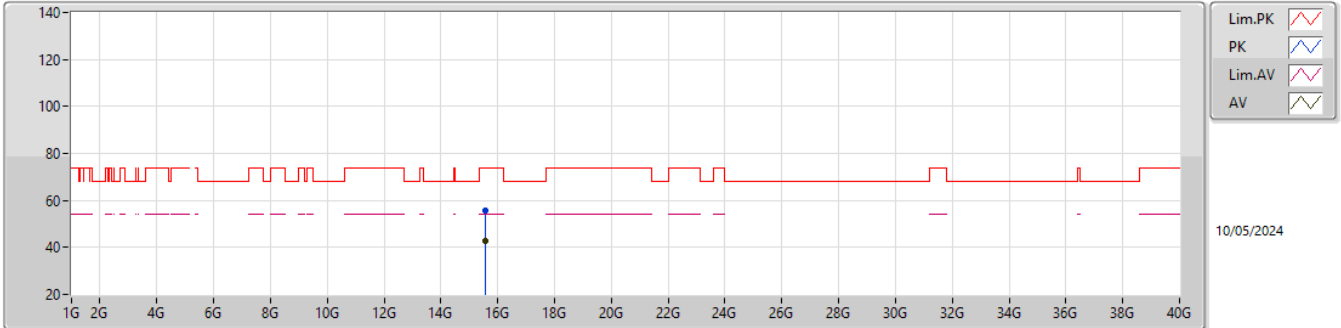


EUT_Y_4TX
Setting 88
06-D-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	15.5448G	56.38	74.00	-17.62	67.72	3	Vertical	30	1.80	-	38.91	12.45	62.70			
AV	15.5552G	42.62	54.00	-11.38	53.99	3	Vertical	30	1.80	-	38.87	12.46	62.70			

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

5180MHz_TX

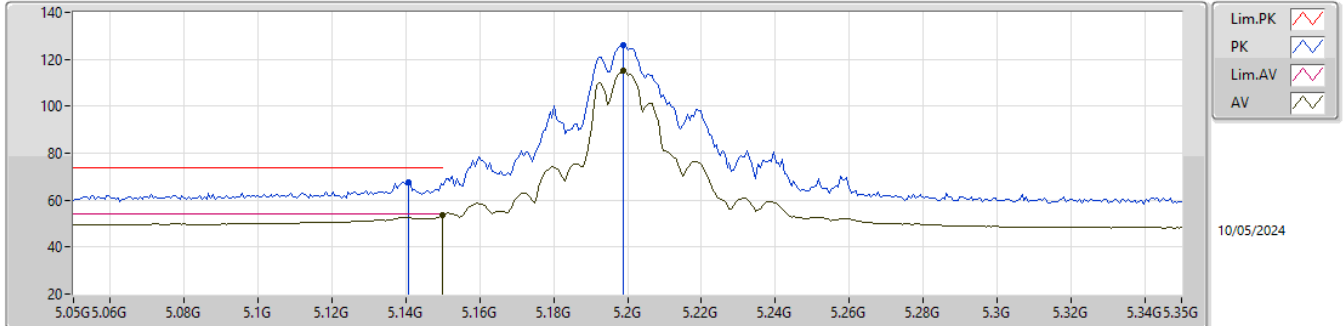


EUT_Y_4TX
Setting 88
06-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.5581G	55.82	74.00	-18.18	67.21	3	Horizontal	240	2.75	-	38.85	12.46	62.70
AV	15.5517G	42.52	54.00	-11.48	53.87	3	Horizontal	240	2.75	-	38.89	12.46	62.70

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

5200MHz_TX

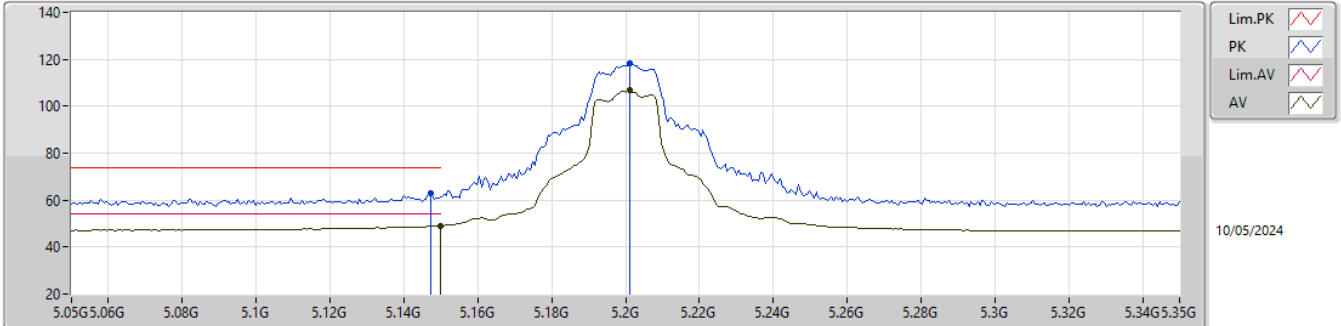


EUT_Y_4TX
Setting 100
06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1406G	67.48	74.00	-6.52	59.83	3	Vertical	220	1.99	-	32.10	6.91	31.36
AV	5.15G	53.63	54.00	-0.37	45.97	3	Vertical	220	1.99	-	32.10	6.92	31.36
PK	5.1988G	126.13	Inf	-Inf	118.77	3	Vertical	220	1.99	-	31.81	6.94	31.39
AV	5.1988G	114.94	Inf	-Inf	107.58	3	Vertical	220	1.99	-	31.81	6.94	31.39

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

5200MHz_TX

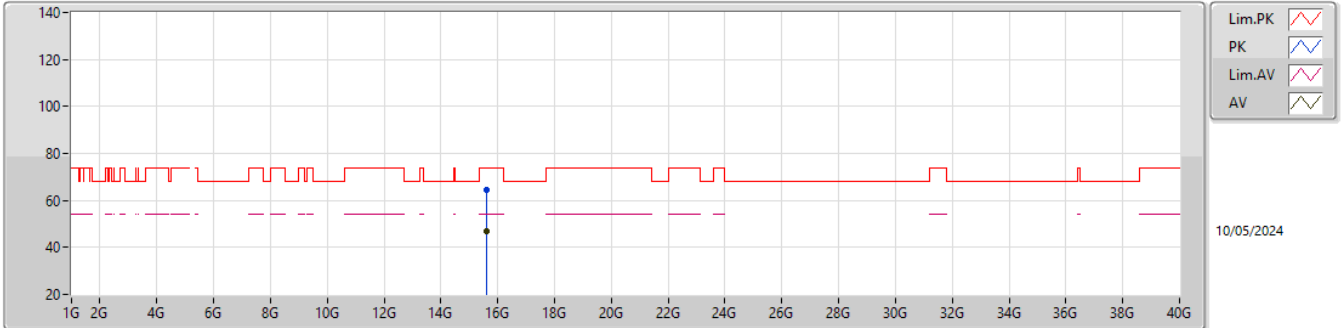


EUT_Y_4TX
 Setting 100
 06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1472G	63.14	74.00	-10.86	55.49	3	Horizontal	360	2.98	-	32.10	6.91	31.36
AV	5.15G	49.16	54.00	-4.84	41.50	3	Horizontal	360	2.98	-	32.10	6.92	31.36
PK	5.2012G	118.25	Inf	-Inf	110.90	3	Horizontal	360	2.98	-	31.80	6.94	31.39
AV	5.2012G	106.69	Inf	-Inf	99.34	3	Horizontal	360	2.98	-	31.80	6.94	31.39

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

5200MHz_TX

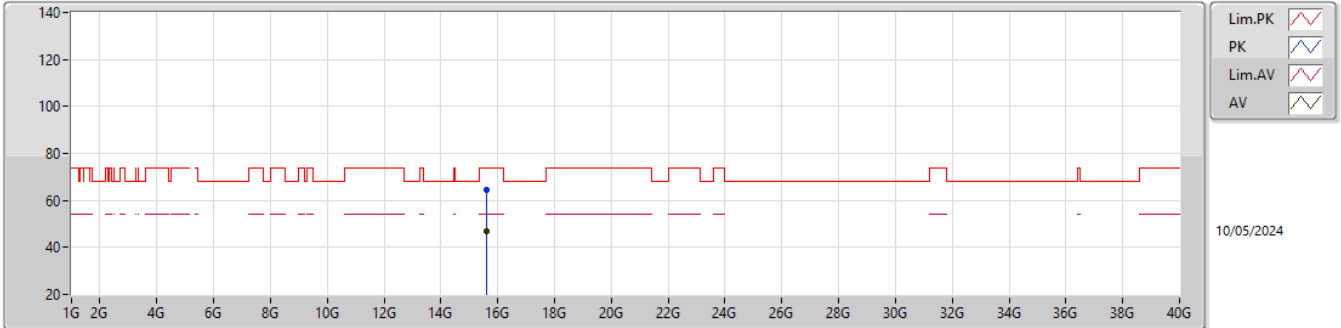


EUT Y_4TX
 Setting 100
 06-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.6014G	64.60	74.00	-9.40	76.26	3	Vertical	332	2.56	-	38.59	12.48	62.73
AV	15.6017G	47.03	54.00	-6.97	58.70	3	Vertical	332	2.56	-	38.58	12.48	62.73

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

5200MHz_TX

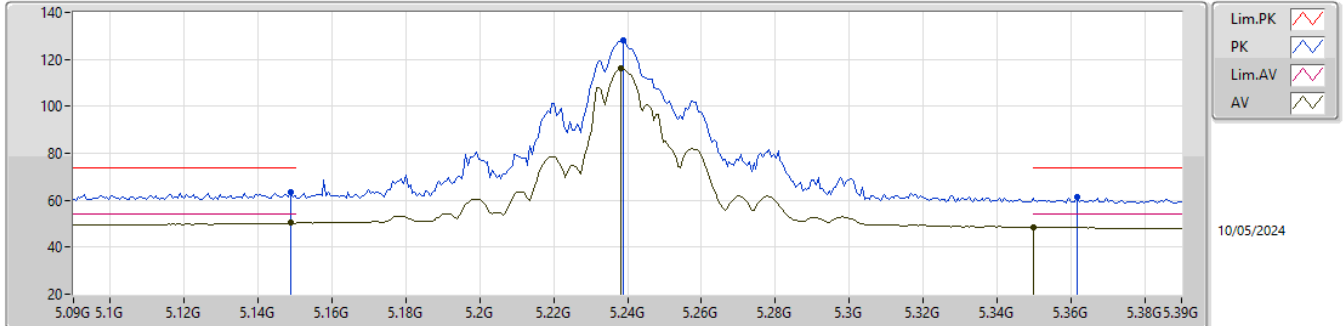


EUT_Y_4TX
Setting 100
06-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.6071G	64.66	74.00	-9.34	76.38	3	Horizontal	359.7	2.41	-	38.53	12.48	62.73
AV	15.6008G	47.00	54.00	-7.00	58.66	3	Horizontal	359.7	2.41	-	38.59	12.48	62.73

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

5240MHz_TX

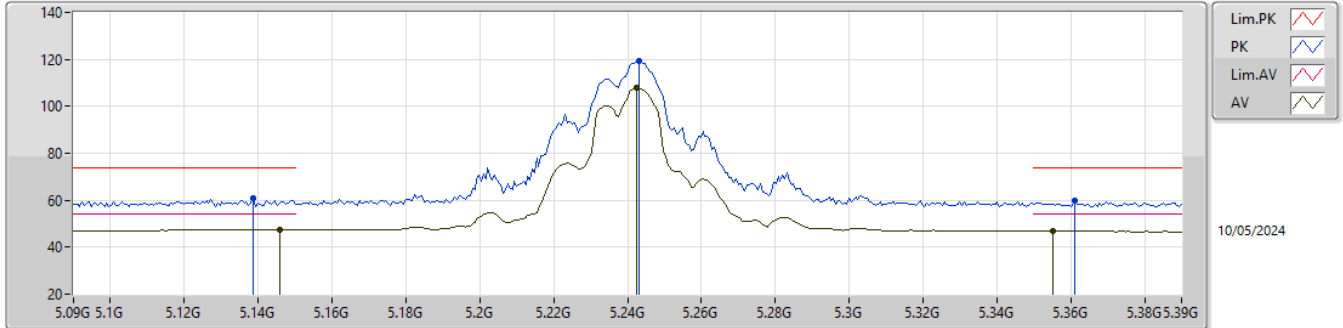


EUT_Y_4TX
Setting 103
06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1488G	63.26	74.00	-10.74	55.61	3	Vertical	217	2.27	-	32.10	6.91	31.36
AV	5.1488G	50.37	54.00	-3.63	42.72	3	Vertical	217	2.27	-	32.10	6.91	31.36
PK	5.2388G	127.92	Inf	-Inf	120.72	3	Vertical	217	2.27	-	31.64	6.97	31.41
AV	5.2382G	116.14	Inf	-Inf	108.93	3	Vertical	217	2.27	-	31.65	6.97	31.41
PK	5.3618G	61.18	74.00	-12.82	54.08	3	Vertical	217	2.27	-	31.52	7.06	31.48
AV	5.35G	48.54	54.00	-5.46	41.46	3	Vertical	217	2.27	-	31.50	7.05	31.47

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

5240MHz_TX

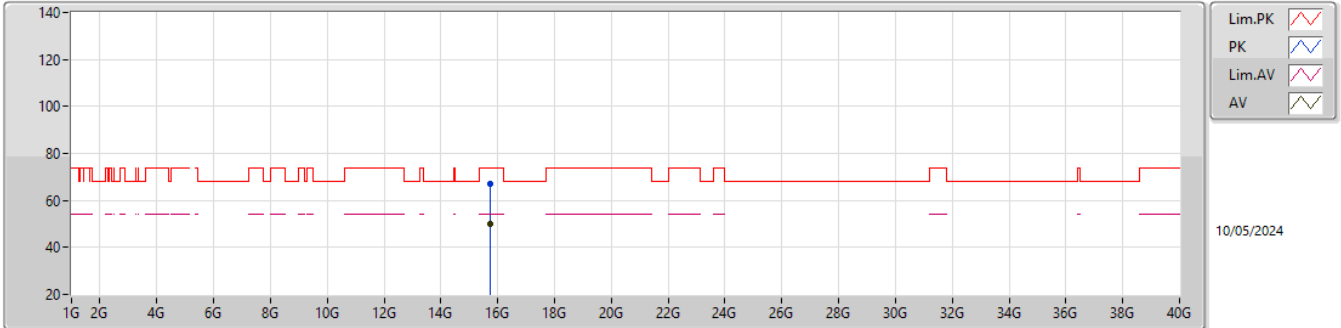


EUT_Y_4TX
Setting 103
06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1386G	60.72	74.00	-13.28	53.06	3	Horizontal	142	1.80	-	32.10	6.91	31.35
AV	5.1458G	47.42	54.00	-6.58	39.77	3	Horizontal	142	1.80	-	32.10	6.91	31.36
PK	5.243G	119.11	Inf	-Inf	111.92	3	Horizontal	142	1.80	-	31.63	6.97	31.41
AV	5.2424G	107.81	Inf	-Inf	100.62	3	Horizontal	142	1.80	-	31.63	6.97	31.41
PK	5.3612G	59.60	74.00	-14.40	52.50	3	Horizontal	142	1.80	-	31.52	7.06	31.48
AV	5.3552G	47.03	54.00	-6.97	39.93	3	Horizontal	142	1.80	-	31.51	7.06	31.47

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

5240MHz_TX

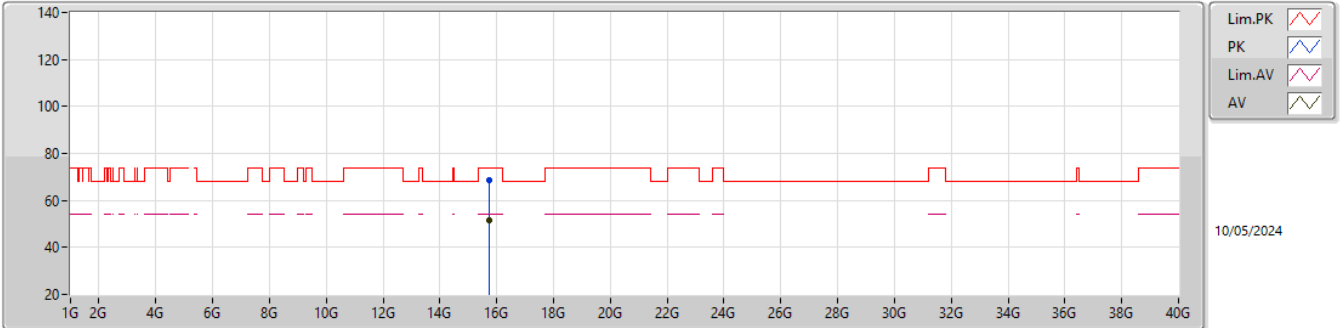


EUT_Y_4TX
Setting 103
06-D-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	15.7216G	67.03	74.00	-6.97	79.05	3	Vertical	300	1.80	-	38.24	12.54	62.80			
AV	15.7196G	49.97	54.00	-4.03	61.99	3	Vertical	300	1.80	-	38.24	12.54	62.80			

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

5240MHz_TX

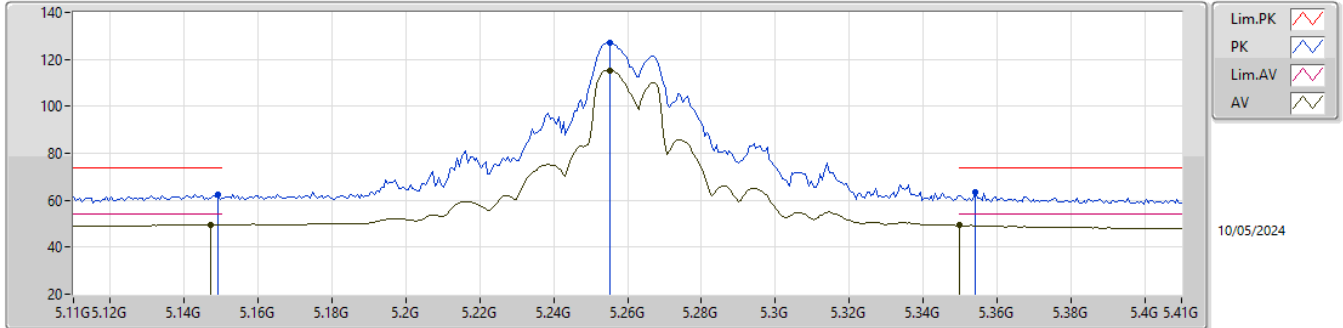


EUT_Y_4TX
Setting 103
06-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.7273G	68.62	74.00	-5.38	80.64	3	Horizontal	4	2.31	-	38.25	12.54	62.81
AV	15.7209G	51.55	54.00	-2.45	63.57	3	Horizontal	4	2.31	-	38.24	12.54	62.80

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

5260MHz_TX

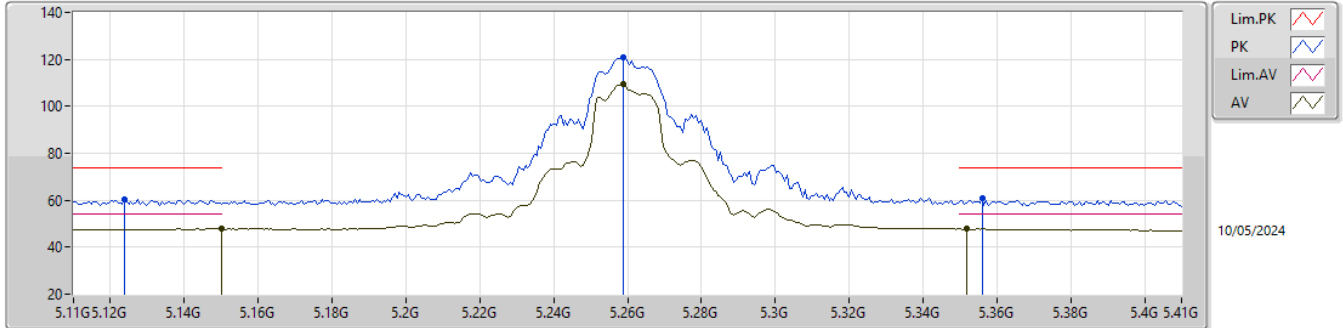


EUT_Y_4TX
Setting 103
06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.149G	62.43	74.00	-11.57	54.78	3	Vertical	171	1.68	-	32.10	6.91	31.36
AV	5.1472G	49.65	54.00	-4.35	42.00	3	Vertical	171	1.68	-	32.10	6.91	31.36
PK	5.2552G	126.97	Inf	-Inf	119.82	3	Vertical	171	1.68	-	31.59	6.98	31.42
AV	5.2552G	115.33	Inf	-Inf	108.18	3	Vertical	171	1.68	-	31.59	6.98	31.42
PK	5.3542G	63.40	74.00	-10.60	56.30	3	Vertical	171	1.68	-	31.51	7.06	31.47
AV	5.35G	49.39	54.00	-4.61	42.31	3	Vertical	171	1.68	-	31.50	7.05	31.47

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

5260MHz_TX

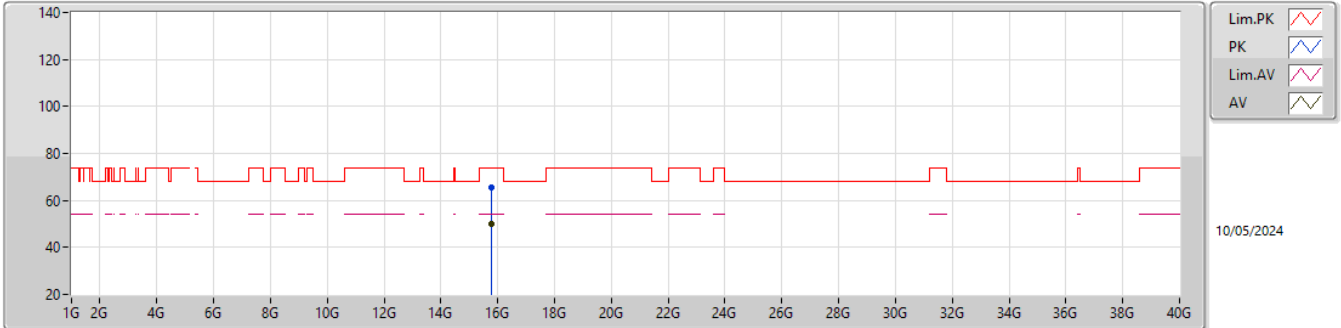


EUT_Y_4TX
Setting 103
06-D-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1238G	60.10	74.00	-13.90	52.45	3	Horizontal	207	2.54	-	32.10	6.90	31.35
AV	5.15G	47.78	54.00	-6.22	40.13	3	Horizontal	207	2.54	-	32.10	6.91	31.36
PK	5.2588G	120.73	Inf	-Inf	113.59	3	Horizontal	207	2.54	-	31.58	6.98	31.42
AV	5.2588G	109.30	Inf	-Inf	102.16	3	Horizontal	207	2.54	-	31.58	6.98	31.42
PK	5.356G	60.78	74.00	-13.22	53.68	3	Horizontal	207	2.54	-	31.51	7.06	31.47
AV	5.3518G	47.72	54.00	-6.28	40.64	3	Horizontal	207	2.54	-	31.50	7.05	31.47

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

5260MHz_TX



EUT_Y_4TX
Setting 103
06-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.7828G	65.70	74.00	-8.30	77.67	3	Vertical	300	1.80	-	38.30	12.57	62.84
AV	15.7813G	50.15	54.00	-3.85	62.12	3	Vertical	300	1.80	-	38.30	12.57	62.84