



RADIO TEST REPORT

FCC ID : LDK-9160S2579
Equipment : Catalyst Wireless 9166D1 Series Wi-Fi 6E Access Point
Brand Name : CISCO
Model Name : CW9166D1-B, CW9166D1-MR
Applicant : Cisco Systems Inc
125 West Tasman Drive San Jose California United States 95134-1706
Manufacturer : Cisco Systems Inc
125 West Tasman Drive San Jose California United States 95134-1706
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 24, 2023, and testing was started from Aug. 30, 2023 and completed on Sep. 06, 2023. 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 variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

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Photographs of EUT v01



Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|-----------------|---|--------------------|----------------------------|
| 1.1.2 | 15.203 | Antenna Requirement | PASS | - |
| 3.1 | 15.407(a) | Emission Bandwidth | PASS | - |
| 3.2 | 15.407(a) | Maximum Equivalent Isotopically Radiated Power (E.I.R.P.) | PASS | - |
| 3.3 | 15.407(a) | Peak Power Spectral Density (E.I.R.P.) | PASS | - |
| 3.4 | 15.407(b) | Unwanted Emissions | PASS | - |
| - | 15.407(d) | Contention-Based Protocol | N/A | Standard Power AP w/o test |

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/manufacturee who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

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

Reviewed by: **Sam Chen**
Report Producer: **Sophia Shiung**



1 General Description

1.1 Information

1.1.1 RF General Information

For LPI AP

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|------------------|---------------------|----------------|
| 5925-7125 | ax (HEW20) | 5955-7115 | 1-233 [59] |
| 5925-7125 | ax (HEW40) | 5965-7085 | 3-227 [29] |
| 5925-7125 | ax (HEW80) | 5985-7025 | 7-215 [14] |
| 5925-7125 | ax (HEW160) | 6025-6985 | 15-207 [7] |

<Radio 2>

| Band | Mode | BWch (MHz) | Nant |
|----------------|--------------------|------------|---------------|
| 5.925-7.125GHz | 802.11ax HEW20 | 20 | 1, 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW20-BF | 20 | 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW40 | 40 | 1, 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW40-BF | 40 | 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW80 | 80 | 1, 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW80-BF | 80 | 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW160 | 160 | 1, 2, 4TX/4RX |
| 5.925-7.125GHz | 802.11ax HEW160-BF | 160 | 2, 4TX/4RX |

<Radio 3>

| Band | Mode | BWch (MHz) | Nant |
|----------------|----------------|------------|---------|
| 5.925-7.125GHz | 802.11ax HEW20 | 20 | 1TX/2RX |



For Standard Power AP

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|------------------|---------------------|----------------|
| 5925-6425 | ax (HEW20) | 5935-6415 | 1-93 [25] |
| 6525-6875 | | 6535-6855 | 117-181 [17] |
| 5925-6425 | ax (HEW40) | 5965-6405 | 3-91 [12] |
| 6525-6875 | | 6565-6845 | 123-179 [8] |
| 5925-6425 | ax (HEW80) | 5985-6385 | 7-87 [6] |
| 6525-6875 | | 6625-6785 | 135-167 [3] |
| 5925-6425 | ax (HEW160) | 6025-6345 | 15-79 [3] |
| 6525-6875 | | 6665 | 143 [1] |

<Radio 2>

| Band | Mode | BWch (MHz) | Nant |
|---------------------------|--------------------|------------|---------------|
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW20 | 20 | 1, 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW20-BF | 20 | 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW40 | 40 | 1, 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW40-BF | 40 | 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW80 | 80 | 1, 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW80-BF | 80 | 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW160 | 160 | 1, 2, 4TX/4RX |
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW160-BF | 160 | 2, 4TX/4RX |

<Radio 3>

| Band | Mode | BWch (MHz) | Nant |
|---------------------------|----------------|------------|---------|
| 5925-6425 / 6525-6875 MHz | 802.11ax HEW20 | 20 | 1TX/2RX |

Note:

- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

| Ant. | Brand | Model Name | Ant. Type | Connector | Gain (dBi) |
|------|-------|--------------------------|-----------|-----------|------------|
| 1 | CISCO | 95XEAM15.G04 WIFI 2/5G_4 | Dipole | I-PEX | Note2 |
| 2 | CISCO | 95XEAM15.G03 WIFI 2/5G_3 | Dipole | I-PEX | |
| 3 | CISCO | 95XEAM15.G02 WIFI 2/5G_2 | Dipole | I-PEX | |
| 4 | CISCO | 95XEAM15.G01 WIFI 2/5G_1 | Dipole | I-PEX | |
| 5 | CISCO | 95XEAM15.G05 WIFI 5/6G_1 | Dipole | I-PEX | |
| 6 | CISCO | 95XEAM15.G06 WIFI 5/6G_2 | Dipole | I-PEX | |
| 7 | CISCO | 95XEAM15.G07 WIFI 5/6G_3 | Dipole | I-PEX | |
| 8 | CISCO | 95XEAM15.G08 WIFI 5/6G_4 | Dipole | I-PEX | |
| 9 | CISCO | 95XEAM15.G10 AUX_2 | Dipole | I-PEX | |
| 10 | CISCO | 95XEAM15.G09 AUX_1 | Dipole | I-PEX | |
| 11 | CISCO | 95XEAM15.G11 IOT | Loop | I-PEX | |

| Ant. | Port | | | | | | | | | | | |
|------|-----------------|-----|-----|------------------------|-----|-----|---------------------------------------|-----|-----|--|-----|--------------------------|
| | R1: WLAN 2.4GHz | | | R1: WLAN 5GHz UNII 1~3 | | | R2: WLAN 5GHz UNII 2C~3/ WLAN 6GHz | | | R3: WLAN 2.4GHz / 5GHz UNII 1~3/ WLAN 6GHz | | R4: Bluetooth/ Zigbee |
| | 1TX | 2TX | 4TX | 1TX | 2TX | 4TX | 1TX | 2TX | 4TX | 1TX/2RX | 1TX | |
| 1 | - | - | 3 | - | - | 3 | - | - | - | - | - | |
| 2 | - | 2 | 2 | - | 2 | 2 | - | - | - | - | - | |
| 3 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | |
| 4 | - | - | 4 | - | - | 4 | - | - | - | - | - | |
| 5 | - | - | - | - | - | - | - | 2 | 2 | - | - | |
| 6 | - | - | - | - | - | - | 1 | 1 | 1 | - | - | |
| 7 | - | - | - | - | - | - | - | - | 3 | - | - | |
| 8 | - | - | - | - | - | - | - | - | 4 | - | - | |
| 9 | - | - | - | - | - | - | - | - | - | 1 | - | |
| 10 | - | - | - | - | - | - | - | - | - | 2 | - | |
| 11 | - | - | - | - | - | - | - | - | - | - | 1 | |

Note1: R means Radio.

Note2:

| Ant. | Antenna Gain (dBi) | | | | | | |
|------|---|------------------------|--------------------|--------|-----------|--------|------|
| | R1: WLAN 2.4GHz | R1: WLAN 5GHz UNII 1~3 | | | | | |
| | | 5.2G | 5.3G | 5.6G | 5.785G | | |
| 1 | 6.57 | 5.21 | 4.46 | 4.78 | 5.2 | | |
| 2 | 4.11 | 4.59 | 4.32 | 4.02 | 4.45 | | |
| 3 | 5.46 | 4.55 | 3.8 | 3.49 | 3.89 | | |
| 4 | 6.55 | 4.84 | 4.48 | 3.62 | 5.02 | | |
| Ant. | R2: WLAN 5GHz UNII 2C~3/WLAN 6GHz | | | | | | |
| | 5.6G | 5.785G | 6.175G | 6.475G | 6.695G | 6.995G | |
| | 5 | 7.48 | 6.28 | 6.49 | 5.9 | 7.49 | 7.42 |
| | 6 | 7.11 | 8.01 | 6 | 4.87 | 7.65 | 8.32 |
| | 7 | 7.24 | 6.68 | 5.88 | 4.86 | 7.37 | 7.26 |
| 8 | 6.57 | 7.32 | 6.34 | 7.31 | 6.46 | 6.82 | |
| Ant. | R3: WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz | | | | | | |
| | WLAN 2.4GHz | | WLAN 5GHz UNII 1~3 | | WLAN 6GHz | | |
| | 9 | 6.9 | | 6.6 | | 6.8 | |
| 10 | 6.9 | | 6.6 | | 6.8 | | |
| Ant. | R4: Bluetooth/Zigbee | | | | | | |
| | 11 | 8.8 | | | | | |



Note3:

| Item | Directional Gain (dBi) | | | | | | |
|------|-----------------------------------|------------------------|--------|--------|--------|--------|------|
| | R1: WLAN 2.4GHz | R1: WLAN 5GHz UNII 1~3 | | | | | |
| | | 5.2G | 5.3G | 5.6G | 5.785G | | |
| 2T1S | 5.49 | 5.02 | 4.37 | 4.05 | 4.48 | | |
| 2T2S | 5.46 | 4.59 | 4.32 | 4.02 | 4.45 | | |
| 4T1S | 8.71 | 8.02 | 7.47 | 6.91 | 7.51 | | |
| 4T2S | 6.57 | 5.21 | 4.48 | 4.78 | 5.2 | | |
| 4T4S | 6.57 | 5.21 | 4.48 | 4.78 | 5.2 | | |
| Item | R2: WLAN 5GHz UNII 2C~3/WLAN 6GHz | | | | | | |
| | 5.6G | 5.785G | 6.175G | 6.475G | 6.695G | 6.995G | |
| | 2T1S | 7.66 | 8.11 | 6.51 | 6.24 | 7.67 | 8.38 |
| 2T2S | 7.48 | 8.01 | 6.49 | 5.9 | 7.65 | 8.32 | |
| 4T1S | 9.91 | 10.4 | 9.21 | 9.03 | 10.32 | 10.71 | |
| 4T2S | 7.48 | 8.01 | 6.49 | 7.31 | 7.65 | 8.32 | |
| 4T4S | 7.48 | 8.01 | 6.49 | 7.31 | 7.65 | 8.32 | |

Note4: 80+80MHz Directional gain information

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

Ex.

Directional Gain (NSS1) formula:

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

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

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

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

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

Where ;

For 80+80

5G Band1 G1 = 5.21 dBi; G2 = 4.59 dBi; G3 = 4.55 dBi; G4 = 4.84 dB

5G Band2 G1 = 4.46 dBi; G2 = 4.32 dBi; G3 = 3.80 dBi; G4 = 4.48 dBi

5G Band3 G1 = 4.78 dBi; G2 = 4.02 dBi; G3 = 3.49 dBi; G4 = 3.62 dBi

For 2T1S

5G Band1 DG = 4.55 dBi

5G Band2 DG = 4.48 dBi

For 4T1S

5G Band1 DG = 7.58 dBi

5G Band2 DG = 7.48 dBi

For 2T2S

5G Band3 DG = 3.62 dBi

For 4T2S

5G Band3 DG = 7.01 dBi



Note5: The above information (except gain of Radio 1 and Radio 2) was declared by manufacturer.
Note6: Radio 1 (WLAN 2.4/5GHz UNII 1~3(except 80+80MHz)), Radio 2 (5GHz UNII 2C~3/6GHz UNII 5~8): The directional gain is measured which follows the procedure of KDB 662911 D03.
Radio 1 (5GHz UNII 1~2C(80+80MHz)): Maximum Directional Gain following KDB662911 D01

Note7: The EUT has eleven antennas.

For WLAN 2.4GHz function (Radio 1):

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

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

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

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

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

For WLAN 5GHz function (Radio 1 and Radio 2):

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

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

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

For Radio 1 80+80MHz 2TX

Only Port 1 and Port 4 can be use as transmitting antenna.

Port 1 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

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

For WLAN 6GHz function (Radio 2):

For IEEE 802.11ax mode (1TX,2TX,4TX/4RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

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

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

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

For Scanning Radio 3:

For WLAN 2.4GHz function

For 802.11b/g/n/VHT/ax mode (1TX/2RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.



Port 1 and Port 2 could receive simultaneously.

For WLAN 5GHz function

For IEEE 802.11a/n/ac/ax mode (1TX/2RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

For WLAN 6GHz function:

For IEEE 802.11ax mode (1TX/2RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

For Bluetooth/Zigbee function (Radio 4):

For Bluetooth/Zigbee mode (1TX/1RX):

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

1.1.3 Mode Test Duty Cycle

For Standard Power AP

<Radio 2>

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|--------------------|-------|---------|--------|---------------|
| 802.11ax HEW20 | 0.786 | 1.05 | 5.446m | 300 |
| 802.11ax HEW20-BF | 0.783 | 1.06 | 5.446m | 300 |
| 802.11ax HEW40 | 0.784 | 1.06 | 5.446m | 300 |
| 802.11ax HEW40-BF | 0.788 | 1.03 | 5.446m | 300 |
| 802.11ax HEW80 | 0.779 | 1.08 | 5.446m | 300 |
| 802.11ax HEW80-BF | 0.785 | 1.05 | 5.446m | 300 |
| 802.11ax HEW160 | 0.779 | 1.08 | 5.446m | 300 |
| 802.11ax HEW160-BF | 0.78 | 1.08 | 5.446m | 300 |

<Radio 3>

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|----------------|-------|---------|--------|---------------|
| 802.11ax HEW20 | 0.786 | 1.05 | 5.446m | 300 |

Note:

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



1.1.4 EUT Operational Condition

| | | | | |
|------------------------------------|--|---------------------|-------------------------------------|-----------------------------|
| EUT Power Type | From Power Adapter or PoE | | | |
| Beamforming Function | <input checked="" type="checkbox"/> | With beamforming | <input type="checkbox"/> | Without beamforming |
| | The product has beamforming function for n/VHT/ax in Radio1-2.4GHz, n/ac/ax in Radio1, 2-5GHz and ax in Radio2-6GHz. | | | |
| Device Type | <input checked="" type="checkbox"/> | Indoor Access Point | <input type="checkbox"/> | Subordinate |
| | <input type="checkbox"/> | Indoor Client | <input checked="" type="checkbox"/> | Standard Power Access Point |
| | <input type="checkbox"/> | Dual Client | <input type="checkbox"/> | Standard Client |
| | <input type="checkbox"/> | Fixed Client | | |
| Channel Puncturing Function | <input type="checkbox"/> | Supported | <input checked="" type="checkbox"/> | Unsupported |
| Support RU | <input checked="" type="checkbox"/> | Full RU | <input type="checkbox"/> | Partial RU |
| Test Software Version | Tera Term V4.75 | | | |

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

| Model Name | SW | R1: 2.4GHz | R1: 5GHz Low Band or R1: 5GHz Full Band | R2: 5GHz High Band or 6GHz | R3: 2.4GHz/ 5GHz/6GHz | R4: Bluetooth or Zigbee |
|-------------|--------|------------|---|----------------------------|-----------------------|--------------------------------------|
| CW9166D1-B | Cisco | V | V (With 80+80MHz) | V | V | V (Disable Zigbee function by SW) |
| CW9166D1-MR | Meraki | V | V (Without 80+80MHz) | V | V | V |

Note 1: From the above models, the model: CW9166D1-MR 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 Radio function

| Radio \ Function | WLAN 2.4GHz | WLAN 5GHz UNII 1~2A | WLAN 5GHz UNII 2C~3 | WLAN 6GHz | Bluetooth | Zigbee |
|-----------------------|-------------|---------------------|---------------------|-----------|-----------|--------|
| 1 (Iron Radio) | V | V | V | - | - | - |
| 2 (Pine Radio) | - | - | V | V | - | - |
| 3 (Scanning Radio) | V | V | V | V | - | - |
| 4 | - | - | - | - | V | V |

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 1 and Radio 3 can't operate at the same frequency.

For WLAN 5GHz: The Radio 1 ~ 3 can't operate at the same frequency.

For WLAN 6GHz: The Radio 2 ~ 3 can't operate at the same frequency simultaneously.



1.1.7 Table for EUT Operation Function

| Mode | Operation Function |
|------|---|
| 1 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 2.4GHz+R4: Bluetooth |
| 2 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 5GHz+R4: Bluetooth |
| 3 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (LPI mode)+R4: Bluetooth |
| 4 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 2.4GHz+R4: Bluetooth |
| 5 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 5GHz+R4: Bluetooth |
| 6 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 6GHz (LPI mode)+R4: Bluetooth |
| 7 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 2.4GHz+R4: Zigbee |
| 8 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 5GHz+R4: Zigbee |
| 9 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (LPI mode)+R4: Zigbee |
| 10 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 2.4GHz+R4: Zigbee |
| 11 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 5GHz+R4: Zigbee |
| 12 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 6GHz (LPI mode)+R4: Zigbee |
| 13 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (Standard Power mode)+R4: Bluetooth |
| 14 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 2.4GHz+R4: Bluetooth |
| 15 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 5GHz+R4: Bluetooth |
| 16 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 6GHz (Standard Power mode)+R4: Bluetooth |
| 17 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (Standard Power mode)+R4: Zigbee |
| 18 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 2.4GHz+R4: Zigbee |
| 19 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 5GHz+R4: Zigbee |
| 20 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 6GHz (Standard Power mode)+R4: Zigbee |

Note: The above information was declared by manufacturer.

1.1.8 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR313002AC.

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

| Modifications | Performance Checking |
|--|---|
| Adding Standard Power mode for the EUT | <ol style="list-style-type: none"> 1. Emission Bandwidth 2. Maximum Equivalent Isotopically Radiated Power (E.I.R.P.) 3. Peak Power Spectral Density (E.I.R.P.) 4. Unwanted Emissions > 1GHz |



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 15.407
- ♦ 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 987594 D02 v02r01
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 412172 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 | Ken Yeh | 23.2~24.5 / 61~65 | Aug. 30, 2023~ Sep. 01, 2023 |
| Radiated > 1GHz | 03CH03-CB | Jackson Peng | 22.4~23.5 / 55~58 | Sep. 06, 2023 |

1.4 Measurement Uncertainty

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

| Test Items | Uncertainty | Remark |
|-----------------------------------|-------------|--------------------------|
| Radiated Emission (1GHz ~ 18GHz) | 4.1 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.2 dB | Confidence levels of 95% |
| Conducted Emission | 3.1 dB | Confidence levels of 95% |
| Output Power Measurement | 0.8 dB | Confidence levels of 95% |
| Power Density Measurement | 3.1 dB | Confidence levels of 95% |
| Bandwidth Measurement | 2.2% | Confidence levels of 95% |



2 Test Configuration of EUT

2.1 Test Channel Mode

For Standard Power AP
<Radio 2>

| Mode | Power Setting |
|---------------------------------|---------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - |
| 5955MHz | 17 |
| 6195MHz | 17 |
| 6415MHz | 17 |
| 6535MHz | 17 |
| 6695MHz | 17 |
| 6855MHz | 17 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | - |
| 5965MHz | 17 |
| 6205MHz | 17 |
| 6405MHz | 17 |
| 6565MHz | 17 |
| 6685MHz | 17 |
| 6845MHz | 17 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | - |
| 5985MHz | 17 |
| 6225MHz | 17 |
| 6385MHz | 17 |
| 6625MHz | 17 |
| 6705MHz | 17 |
| 6785MHz | 17 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | - |
| 6025MHz | 17 |
| 6185MHz | 17 |
| 6345MHz | 17 |
| 6665MHz | 17 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - |
| 5955MHz | 17 |
| 6195MHz | 17 |
| 6415MHz | 17 |
| 6535MHz | 17 |
| 6695MHz | 17 |
| 6855MHz | 17 |



| Mode | Power Setting |
|---------------------------------|---------------|
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - |
| 5965MHz | 16.5 |
| 6205MHz | 17 |
| 6405MHz | 17 |
| 6565MHz | 17 |
| 6685MHz | 17 |
| 6845MHz | 17 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - |
| 5985MHz | 16.5 |
| 6225MHz | 17 |
| 6385MHz | 17 |
| 6625MHz | 17 |
| 6705MHz | 17 |
| 6785MHz | 17 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | - |
| 6025MHz | 17 |
| 6185MHz | 17 |
| 6345MHz | 17 |
| 6665MHz | 17 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - |
| 5955MHz | 17 |
| 6195MHz | 17 |
| 6415MHz | 17 |
| 6535MHz | 17 |
| 6695MHz | 17 |
| 6855MHz | 17 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - |
| 5965MHz | 15 |
| 6205MHz | 17 |
| 6405MHz | 17 |
| 6565MHz | 17 |
| 6685MHz | 17 |
| 6845MHz | 17 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - |
| 5985MHz | 15 |
| 6225MHz | 17 |
| 6385MHz | 17 |
| 6625MHz | 17 |
| 6705MHz | 17 |



| Mode | Power Setting |
|------------------------------------|----------------------|
| 6785MHz | 17 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - |
| 6025MHz | 16 |
| 6185MHz | 17 |
| 6345MHz | 17 |
| 6665MHz | 17 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - |
| 5955MHz | 17 |
| 6195MHz | 17 |
| 6415MHz | 17 |
| 6535MHz | 17 |
| 6695MHz | 17 |
| 6855MHz | 17 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - |
| 5965MHz | 16.5 |
| 6205MHz | 17 |
| 6405MHz | 17 |
| 6565MHz | 17 |
| 6685MHz | 17 |
| 6845MHz | 17 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - |
| 5985MHz | 16.5 |
| 6225MHz | 17 |
| 6385MHz | 17 |
| 6625MHz | 17 |
| 6705MHz | 17 |
| 6785MHz | 17 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_2TX | - |
| 6025MHz | 17 |
| 6185MHz | 17 |
| 6345MHz | 17 |
| 6665MHz | 17 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | - |
| 5955MHz | 17 |
| 6195MHz | 17 |
| 6415MHz | 17 |
| 6535MHz | 17 |
| 6695MHz | 17 |
| 6855MHz | 17 |



| Mode | Power Setting |
|------------------------------------|---------------|
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | - |
| 5965MHz | 15 |
| 6205MHz | 17 |
| 6405MHz | 17 |
| 6565MHz | 17 |
| 6685MHz | 17 |
| 6845MHz | 17 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | - |
| 5985MHz | 15 |
| 6225MHz | 17 |
| 6385MHz | 17 |
| 6625MHz | 17 |
| 6705MHz | 17 |
| 6785MHz | 17 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | - |
| 6025MHz | 16 |
| 6185MHz | 17 |
| 6345MHz | 17 |
| 6665MHz | 17 |

<Radio 3>

| Mode | Power Setting |
|--------------------------------|---------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - |
| 5955MHz | 20 |
| 6195MHz | 20 |
| 6415MHz | 20 |
| 6535MHz | 20 |
| 6695MHz | 20 |
| 6855MHz | 20 |

Note:

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



2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Emission Bandwidth Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.) Emission MASK |
| Test Condition | Conducted measurement at transmit chains |
| 1 | R2: 1T1S, 2T1S, 4T1S_Standard Power AP |
| 2 | R3: 1T1S_Standard Power AP |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Unwanted Emissions |
| Test Condition | Conducted measurement at transmit chains |
| Operating Mode > 1GHz | CTX (Harmonic and bandedge) |
| 1 | R2: 1T1S, 2T1S, 4T1S_Standard Power AP |
| 2 | R3: 1T1S_Standard Power AP |
| 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 (Cabinet) |
| After evaluating, and the worst case was found as below. So the measurement will follow this same test configuration. | |
| 1 | EUT in X axis + R2: 1T1S, 2T1S, 4T1S_Standard Power AP |
| 2 | EUT in Y axis + R3: 1T1S_Standard Power AP |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| Operating Mode | |
| 1 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 2.4GHz+R4: Bluetooth |
| 2 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 5GHz+R4: Bluetooth |
| 3 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (LPI mode)+R4: Bluetooth |
| 4 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 2.4GHz+R4: Bluetooth |
| 5 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 5GHz+R4: Bluetooth |
| 6 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 6GHz (LPI mode)+R4: Bluetooth |
| 7 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 2.4GHz+R4: Zigbee |



| | |
|----|---|
| 8 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 5GHz+R4: Zigbee |
| 9 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (LPI mode)+R4: Zigbee |
| 10 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 2.4GHz+R4: Zigbee |
| 11 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 5GHz+R4: Zigbee |
| 12 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (LPI mode)+R3: 6GHz (LPI mode)+R4: Zigbee |
| 13 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (Standard Power mode)+R4: Bluetooth |
| 14 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 2.4GHz+R4: Bluetooth |
| 15 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 5GHz+R4: Bluetooth |
| 16 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 6GHz (Standard Power mode)+R4: Bluetooth |
| 17 | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 6GHz (Standard Power mode)+R4: Zigbee |
| 18 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 2.4GHz+R4: Zigbee |
| 19 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 5GHz+R4: Zigbee |
| 20 | R1: 2.4GHz/5GHz Full Band+R2: 6GHz (Standard Power mode)+R3: 6GHz (Standard Power mode)+R4: Zigbee |

Refer to Sporton Test Report No.: FA313002-07 for Co-location RF Exposure Evaluation.

Note: The Adapter and PoEs are for measurement only and would not be marketed.

The Adapter and PoEs' information is listed as below:

| Power | Brand | Model |
|--------------|--------------|-------------------------------|
| Adapter | UMEC | MA-PWR-50WAC |
| PoE 1 | PHIHONG | POEA33U-1ATE (MA-INJ-4) |
| PoE 2 | PHIHONG | POE60U-1BT-X (MA-INJ-6) |
| PoE 3 | Delta | ADH-65AR B (AIR-PWRINJ7) |
| PoE 4 | Microchip | PD-9001GR/AT/AC (AIR-PWRINJ6) |
| PoE 5 | PHIHONG | POE29U-1AT (AIR-PWRINJ6) |



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Wall-mounted rack*1

2.5 Support Equipment

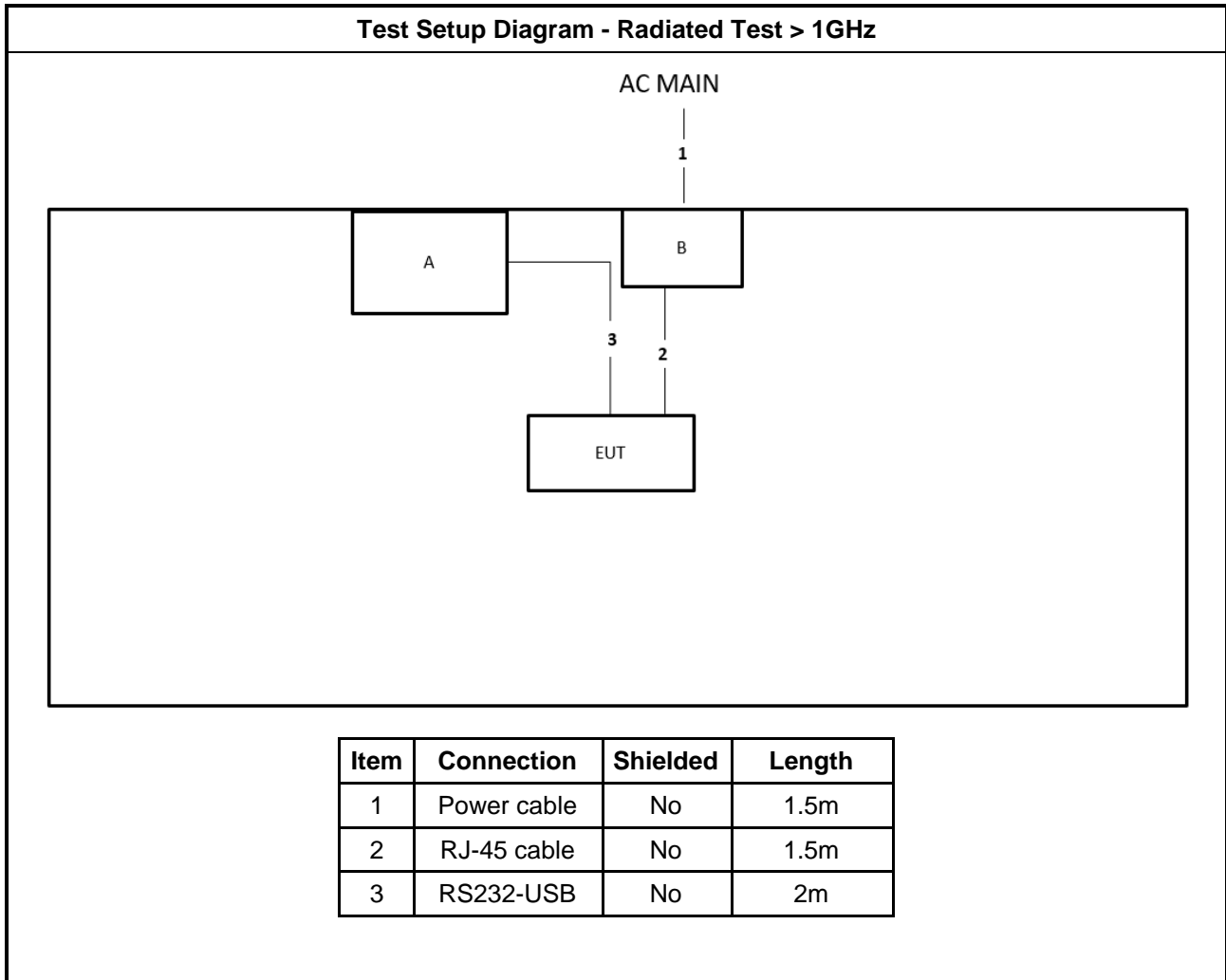
For Radiated:

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| A | Notebook | DELL | E4300 | N/A |
| B | PoE 5 | PHIHONG | POE29U-1AT | N/A |

For RF Conducted:

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| A | Notebook | DELL | E4300 | N/A |
| B | PoE 5 | PHIHONG | POE29U-1AT | N/A |

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

| Emission Bandwidth Limit | |
|-------------------------------------|---------------------------------|
| UNII Devices | |
| <input checked="" type="checkbox"/> | For the 5925-6425 GHz band, N/A |
| <input type="checkbox"/> | For the 6425-6525 GHz band, N/A |
| <input checked="" type="checkbox"/> | For the 6525-6875 GHz band, N/A |
| <input type="checkbox"/> | For the 6875-7125 GHz band, N/A |
| RLAN Devices | |
| <input type="checkbox"/> | For the 5925-6425 GHz band, N/A |
| <input type="checkbox"/> | For the 6425-6525 GHz band, N/A |
| <input type="checkbox"/> | For the 6525-6875 GHz band, N/A |
| <input type="checkbox"/> | For the 6875-7125 GHz band, N/A |

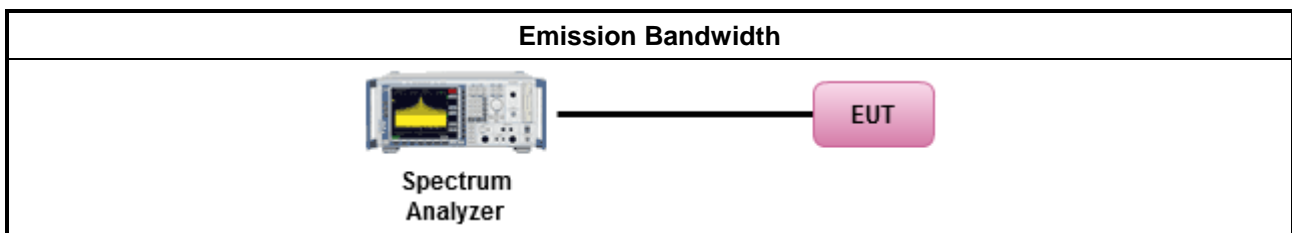
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

| Test Method | |
|--|--|
| <ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: | |
| <input checked="" type="checkbox"/> | According to FCC KDB 987594 D02 clause II.C, measurement procedure shall refer to 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. |

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

3.2.1 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit

| Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit | |
|--|---------------------------------|
| UNII Devices | |
| <input checked="" type="checkbox"/> | For the 5.925 ~ 6.425 GHz band: |
| <input type="checkbox"/> | For the 6.425 ~ 6.525 GHz band: |
| <input checked="" type="checkbox"/> | For the 6.525 ~ 6.875 GHz band: |
| <input type="checkbox"/> | For the 6.875 ~ 7.125 GHz band: |
| RLAN Devices | |
| <input type="checkbox"/> | For the 5.925 ~ 7.125 GHz band: |
| <input type="checkbox"/> | For the 5.925 ~ 6.875 GHz band: |

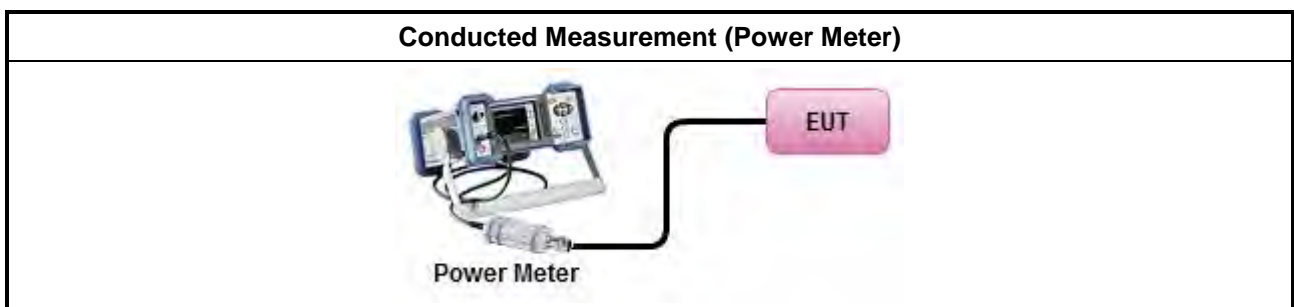
3.2.2 Measuring Instruments

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"> ▪ According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033. | |
| Average over on/off periods with duty factor | |
| <input type="checkbox"/> | Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging). Spectrum analyzer setting: RBW/VBW : 1/3MHz ; Detector : RMS ; Trace mode : Average ; Sweep Count 100. |
| <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. | |

3.2.4 Test Setup



3.2.5 Test Result of Maximum Equivalent Isotropically Radiated Power (E.I.R.P)

Refer as Appendix B



3.3 Peak Power Spectral Density (E.I.R.P.)

3.3.1 Peak Power Spectral Density (E.I.R.P.) Limit

| Peak Power Spectral Density (E.I.R.P.) Limit | |
|--|---------------------------------|
| UNII Devices | |
| <input checked="" type="checkbox"/> | For the 5.925 ~ 6.425 GHz band: |
| <input type="checkbox"/> | For the 6.425 ~ 6.525 GHz band: |
| <input checked="" type="checkbox"/> | For the 6.525 ~ 6.875 GHz band: |
| <input type="checkbox"/> | For the 6.875 ~ 7.125 GHz band: |
| RLAN Devices | |
| <input type="checkbox"/> | For the 5.925 ~ 7.125 GHz band: |
| <input type="checkbox"/> | For the 5.925 ~ 6.875 GHz band: |

3.3.2 Measuring Instruments

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

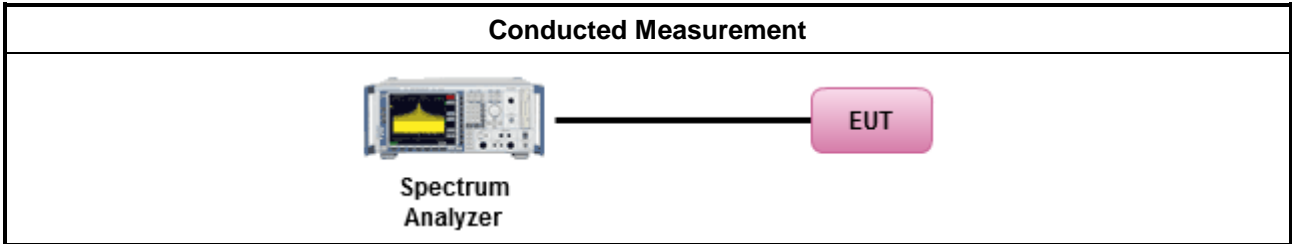


3.3.3 Test Procedures

| Test Method | |
|-------------------------------------|--|
| | <ul style="list-style-type: none"> ▪ According to FCC KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: |
| <input type="checkbox"/> | Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth |
| | [duty cycle ≥ 98% or external video / power trigger] |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| | duty cycle < 98% and average over on/off periods with duty factor |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| <input checked="" type="checkbox"/> | For conducted measurement. |
| | <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: |
| <input checked="" type="checkbox"/> | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/> | Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| <input type="checkbox"/> | Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |
| | <ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ |

| | |
|--------------------------|--|
| <input type="checkbox"/> | For radiated measurement. |
| | ▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" |
| | ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. |
| | ▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation. |

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density (E.I.R.P.)

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

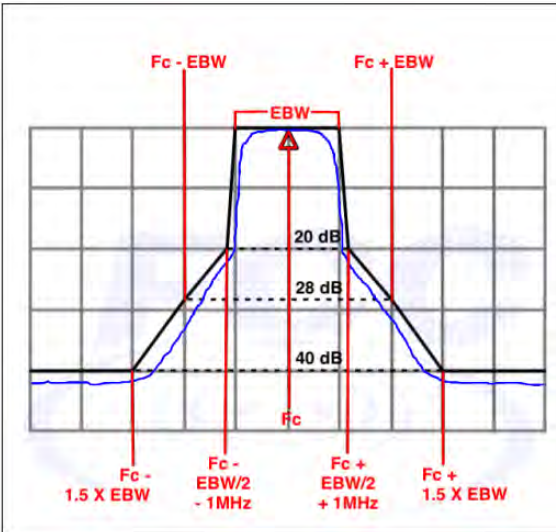
| Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit | | | |
|---|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz) | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490 | 2400/F(kHz) | 48.5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

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

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

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$).
 EX. Above 18GHz emission limit calculation (3m to 1m) = 54dBuV/m at 3m + 9.54dB = 63.54 dBuV/m at 1m.

| Un-restricted band emissions above 1GHz Limit | |
|---|---|
| Frequency | Limit |
| Any outside the 5.945 – 7.125 GHz emission | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$). EX. Above 18GHz emission limit calculation (3m to 1m) = 68.2dBuV/m at 3m + 9.54dB = 77.74 dBuV/m at 1m. Note 2:-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit. |

| Frequency | Emission MASK Limit |
|-------------------|---|
| 5.945 – 7.125 GHz | <p>Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.</p>  |



3.4.2 Measuring Instruments

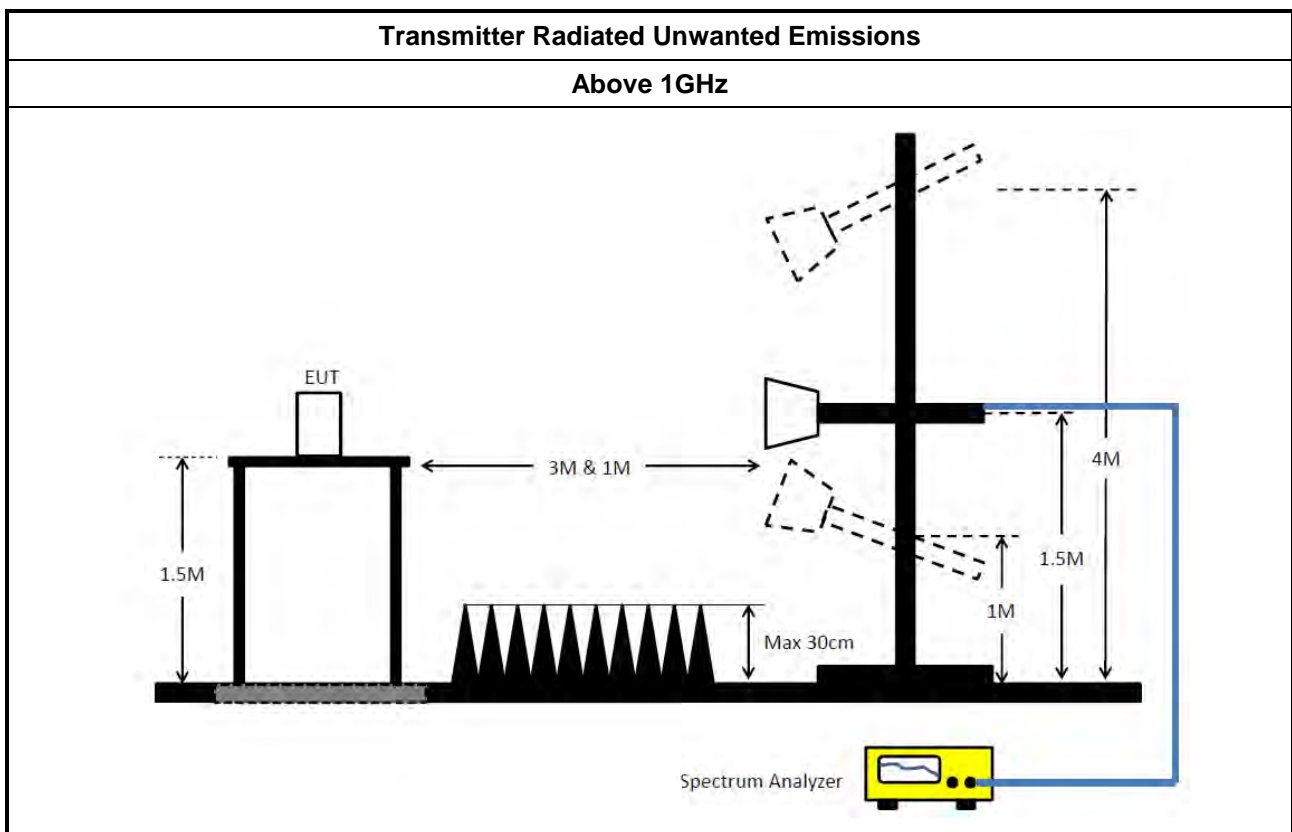
Refer a test equipment and calibration data table in this test report.

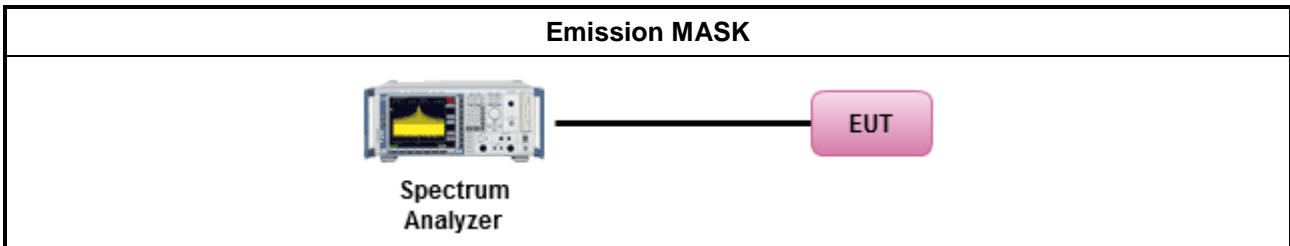
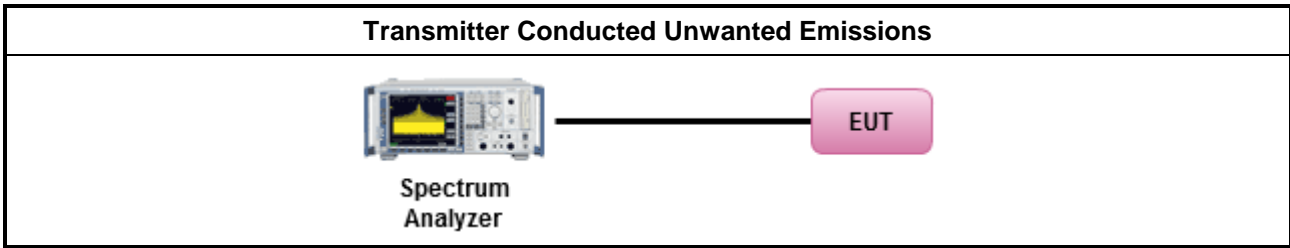
3.4.3 Test Procedures

| Test Method | |
|---|---|
| <ul style="list-style-type: none"> ▪ According to FCC KDB 987594 D02 II.G. the unwanted emission measurement procedure shall refer to KDB 789300(except emission MASK). Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). | |
| <ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | |
| <ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: | |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands. |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands. |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). (For unrestricted band measurement) |
| | <input type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW). |
| | <input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.(For restricted band average measurement) |
| | <input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit. |
| | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. |
| | <ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033 D02, clause G)3)d)ii) for Band edge Integration measurements. |
| | <ul style="list-style-type: none"> ▪ For emission MASK shall be measured using following options below: |
| <input checked="" type="checkbox"/> Refer as FCC KDB 987594 D02, J) In-Band Emissions | |
| <ul style="list-style-type: none"> ▪ For radiated measurement. | |
| <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. | |
| <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. | |
| <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. | |
| <ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. | |
| <ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. | |

| Test Method | |
|--|---|
| <ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033 D02, clause G)3). | |
| | <ul style="list-style-type: none"> ▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs. |
| | <ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB |
| | <ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. |

3.4.4 Test Setup





3.4.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|-------------------------------|----------------|-----------|------------------|-------------------|------------------|----------------------|-----------------------|
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH03-CB | 1GHz ~18GHz 3m | May 04, 2023 | May 03, 2024 | Radiation (03CH03-CB) |
| Horn Antenna | ETS · Lindgren | 3115 | 6821 | 750MHz~18GHz | Feb. 03, 2023 | Feb. 02, 2024 | Radiation (03CH03-CB) |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170507 | 15GHz ~ 40GHz | Jun. 28, 2023 | Jun. 27, 2024 | Radiation (03CH03-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02097 | 1GHz ~ 26.5GHz | Jun. 30, 2023 | Jun. 29, 2024 | Radiation (03CH03-CB) |
| Pre-Amplifier | SGH | SGH184 | 20221107-3 | 18GHz ~ 40GHz | Nov. 16, 2022 | Nov. 15, 2023 | Radiation (03CH03-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100019 | 9kHz ~ 40GHz | Jun. 12, 2023 | Jun. 11, 2024 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-20+29 | 1GHz ~ 18GHz | Oct. 03, 2022 | Oct. 02, 2023 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-29 | 1GHz ~ 18GHz | Oct. 03, 2022 | Oct. 02, 2023 | Radiation (03CH03-CB) |
| High Cable | Woken | WCA0929M | 40G#5+6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH03-CB) |
| High Cable | Woken | WCA0929M | 40G#5 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH03-CB) |
| High Cable | Woken | WCA0929M | 40G#6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Radiation (03CH03-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH03-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. 17, 2022 | Oct. 16, 2023 | Conducted (TH02-CB) |
| Power Meter | Anritsu | ML2495A | 1210004 | 300MHz~40GHz | Oct. 17, 2022 | Oct. 16, 2023 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-01 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-02 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-03 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-04 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-05 | 1 GHz – 18 GHz | Oct. 03, 2022 | Oct. 02, 2023 | Conducted (TH02-CB) |



| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---------------|---------|-----------|------------|--------------------|------------------|----------------------|---------------------|
| High Cable | Woken | WCA0929M | 40G#5+6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Conducted (TH02-CB) |
| High Cable | Woken | WCA0929M | 40G#5 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Conducted (TH02-CB) |
| High Cable | Woken | WCA0929M | 40G#6 | 1GHz ~ 40 GHz | Dec. 07, 2022 | Dec. 06, 2023 | Conducted (TH02-CB) |
| Switch | SPTCB | SP-SWI | SWI-02 | 1 GHz– 26.5 GHz | Oct. 04, 2022 | Oct. 03, 2023 | 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 | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---------------------------------|---------------|--------------|----------|---------------|--------------|
| 5.925-6.425GHz | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 20.9M | 19.009M | 19MOD1D | 20.075M | 18.887M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.625M | 18.951M | 19MOD1D | 19.965M | 18.864M |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 22.825M | 18.989M | 19MOD1D | 19.8M | 18.815M |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 42.68M | 37.796M | 37M8D1D | 39.49M | 37.669M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 39.82M | 37.775M | 37M8D1D | 39.05M | 37.613M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 39.82M | 37.841M | 37M8D1D | 38.83M | 37.633M |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | 81.62M | 77.262M | 77M3D1D | 80.08M | 76.611M |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 82.5M | 77.236M | 77M2D1D | 80.08M | 77.034M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 80.96M | 77.31M | 77M3D1D | 79.86M | 76.655M |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | 163.24M | 155.216M | 155MD1D | 161.92M | 155.014M |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | 166.76M | 155.691M | 156MD1D | 161.04M | 153.739M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 163.68M | 155.842M | 156MD1D | 161.48M | 153.874M |
| 6.525-6.875GHz | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 20.35M | 18.878M | 18M9D1D | 19.525M | 18.848M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.68M | 18.903M | 18M9D1D | 19.8M | 18.784M |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 20.68M | 19.008M | 19MOD1D | 19.69M | 18.817M |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 39.49M | 37.685M | 37M7D1D | 39.27M | 37.504M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 39.82M | 37.855M | 37M9D1D | 39.16M | 37.584M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 39.82M | 37.78M | 37M8D1D | 38.94M | 37.364M |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | 82.06M | 77.31M | 77M3D1D | 79.86M | 76.903M |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 81.18M | 77.479M | 77M5D1D | 80.08M | 76.895M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 82.28M | 77.42M | 77M4D1D | 80.08M | 76.569M |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | 161.92M | 155.952M | 156MD1D | 161.92M | 155.952M |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | 161.92M | 155.252M | 155MD1D | 161.92M | 153.774M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 162.8M | 154.792M | 155MD1D | 161.92M | 154.35M |

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) |
|---------------------------------|--------|------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | Inf | 20.075M | 19.009M | - | - | - | - | - | - |
| 6195MHz | Pass | Inf | 20.9M | 18.909M | - | - | - | - | - | - |
| 6415MHz | Pass | Inf | 20.515M | 18.887M | - | - | - | - | - | - |
| 6535MHz | Pass | Inf | 20.24M | 18.869M | - | - | - | - | - | - |
| 6695MHz | Pass | Inf | 19.525M | 18.878M | - | - | - | - | - | - |
| 6855MHz | Pass | Inf | 20.35M | 18.848M | - | - | - | - | - | - |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | Inf | 42.68M | 37.796M | - | - | - | - | - | - |
| 6205MHz | Pass | Inf | 39.49M | 37.719M | - | - | - | - | - | - |
| 6405MHz | Pass | Inf | 39.49M | 37.669M | - | - | - | - | - | - |
| 6565MHz | Pass | Inf | 39.27M | 37.671M | - | - | - | - | - | - |
| 6685MHz | Pass | Inf | 39.49M | 37.685M | - | - | - | - | - | - |
| 6845MHz | Pass | Inf | 39.27M | 37.504M | - | - | - | - | - | - |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | Inf | 81.62M | 77.262M | - | - | - | - | - | - |
| 6225MHz | Pass | Inf | 80.52M | 77.112M | - | - | - | - | - | - |
| 6385MHz | Pass | Inf | 80.08M | 76.611M | - | - | - | - | - | - |
| 6625MHz | Pass | Inf | 82.06M | 77.31M | - | - | - | - | - | - |
| 6705MHz | Pass | Inf | 79.86M | 76.903M | - | - | - | - | - | - |
| 6785MHz | Pass | Inf | 80.3M | 77.09M | - | - | - | - | - | - |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | Inf | 161.92M | 155.014M | - | - | - | - | - | - |
| 6185MHz | Pass | Inf | 161.92M | 155.162M | - | - | - | - | - | - |
| 6345MHz | Pass | Inf | 163.24M | 155.216M | - | - | - | - | - | - |
| 6665MHz | Pass | Inf | 161.92M | 155.952M | - | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | Inf | 20.405M | 18.866M | 20.625M | 18.951M | - | - | - | - |
| 6195MHz | Pass | Inf | 20.515M | 18.913M | 20.295M | 18.912M | - | - | - | - |
| 6415MHz | Pass | Inf | 20.075M | 18.864M | 19.965M | 18.888M | - | - | - | - |
| 6535MHz | Pass | Inf | 19.91M | 18.784M | 19.8M | 18.806M | - | - | - | - |
| 6695MHz | Pass | Inf | 20.24M | 18.881M | 20.295M | 18.903M | - | - | - | - |
| 6855MHz | Pass | Inf | 20.68M | 18.89M | 20.13M | 18.861M | - | - | - | - |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | Inf | 39.05M | 37.73M | 39.27M | 37.775M | - | - | - | - |
| 6205MHz | Pass | Inf | 39.27M | 37.638M | 39.71M | 37.678M | - | - | - | - |
| 6405MHz | Pass | Inf | 39.82M | 37.626M | 39.6M | 37.613M | - | - | - | - |
| 6565MHz | Pass | Inf | 39.82M | 37.584M | 39.16M | 37.761M | - | - | - | - |
| 6685MHz | Pass | Inf | 39.27M | 37.693M | 39.49M | 37.855M | - | - | - | - |
| 6845MHz | Pass | Inf | 39.27M | 37.75M | 39.49M | 37.706M | - | - | - | - |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | Inf | 82.5M | 77.236M | 81.4M | 77.034M | - | - | - | - |
| 6225MHz | Pass | Inf | 80.52M | 77.158M | 80.3M | 77.124M | - | - | - | - |
| 6385MHz | Pass | Inf | 80.08M | 77.07M | 80.52M | 77.078M | - | - | - | - |
| 6625MHz | Pass | Inf | 80.3M | 76.895M | 81.18M | 77.111M | - | - | - | - |
| 6705MHz | Pass | Inf | 80.08M | 77.39M | 80.52M | 77.479M | - | - | - | - |
| 6785MHz | Pass | Inf | 80.74M | 77.177M | 80.74M | 76.985M | - | - | - | - |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | Inf | 161.48M | 154.231M | 162.8M | 155.691M | - | - | - | - |
| 6185MHz | Pass | Inf | 166.76M | 155.155M | 161.92M | 153.739M | - | - | - | - |
| 6345MHz | Pass | Inf | 161.92M | 154.711M | 161.04M | 154.018M | - | - | - | - |
| 6665MHz | Pass | Inf | 161.92M | 153.774M | 161.92M | 155.252M | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | Inf | 20.735M | 18.943M | 21.725M | 18.892M | 20.9M | 18.989M | 22.825M | 18.884M |
| 6195MHz | Pass | Inf | 20.24M | 18.922M | 20.02M | 18.915M | 20.405M | 18.815M | 20.35M | 18.988M |



EBW_Radio 2 (1T1S, 2T1S, 4T1S)

Appendix A.1

| 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) |
|---------------------------------|--------|------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 6415MHz | Pass | Inf | 20.46M | 18.9M | 20.46M | 18.84M | 20.13M | 18.947M | 19.8M | 18.816M |
| 6535MHz | Pass | Inf | 20.24M | 18.903M | 19.965M | 18.925M | 19.8M | 18.966M | 19.91M | 18.866M |
| 6695MHz | Pass | Inf | 20.185M | 18.902M | 20.46M | 18.969M | 20.075M | 19.008M | 19.69M | 18.817M |
| 6855MHz | Pass | Inf | 20.24M | 18.938M | 20.35M | 18.864M | 19.8M | 18.877M | 20.68M | 18.89M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | Inf | 39.16M | 37.633M | 39.82M | 37.647M | 39.16M | 37.841M | 39.16M | 37.813M |
| 6205MHz | Pass | Inf | 39.38M | 37.693M | 39.49M | 37.75M | 39.16M | 37.705M | 38.94M | 37.648M |
| 6405MHz | Pass | Inf | 39.16M | 37.673M | 38.83M | 37.751M | 39.05M | 37.653M | 39.05M | 37.674M |
| 6565MHz | Pass | Inf | 39.82M | 37.635M | 39.27M | 37.364M | 38.94M | 37.717M | 39.16M | 37.583M |
| 6685MHz | Pass | Inf | 39.05M | 37.73M | 39.05M | 37.71M | 38.94M | 37.779M | 39.71M | 37.62M |
| 6845MHz | Pass | Inf | 39.38M | 37.762M | 38.94M | 37.77M | 39.38M | 37.78M | 39.49M | 37.659M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | Inf | 80.3M | 77.154M | 80.08M | 76.838M | 80.08M | 76.888M | 80.3M | 76.794M |
| 6225MHz | Pass | Inf | 79.86M | 76.975M | 80.3M | 77.014M | 80.52M | 77.31M | 80.96M | 77.26M |
| 6385MHz | Pass | Inf | 80.74M | 76.859M | 80.08M | 77.056M | 80.74M | 77.141M | 80.52M | 76.655M |
| 6625MHz | Pass | Inf | 80.96M | 76.887M | 80.52M | 76.859M | 81.18M | 77.125M | 81.18M | 76.569M |
| 6705MHz | Pass | Inf | 80.08M | 76.794M | 80.3M | 77.178M | 80.74M | 77.068M | 80.3M | 77.122M |
| 6785MHz | Pass | Inf | 80.74M | 77.288M | 82.28M | 77.244M | 80.08M | 76.876M | 80.96M | 77.42M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | Inf | 161.92M | 154.328M | 161.48M | 153.937M | 162.8M | 153.874M | 161.92M | 155.218M |
| 6185MHz | Pass | Inf | 163.68M | 155.842M | 161.48M | 154.034M | 161.48M | 155.672M | 162.36M | 154.404M |
| 6345MHz | Pass | Inf | 162.8M | 154.915M | 161.48M | 154.392M | 163.68M | 154.658M | 162.36M | 154.344M |
| 6665MHz | Pass | Inf | 162.8M | 154.477M | 161.92M | 154.35M | 161.92M | 154.792M | 161.92M | 154.519M |

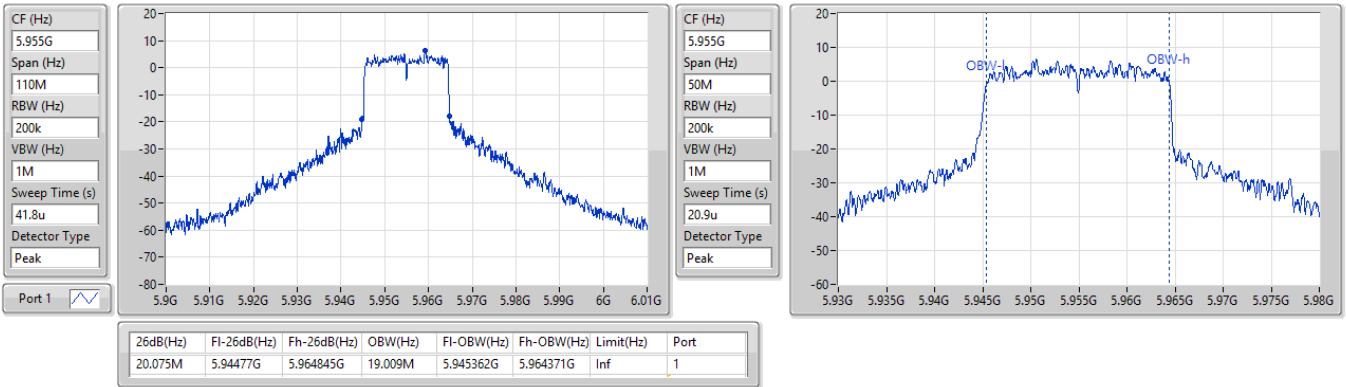
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
 Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5955MHz

31/08/2023

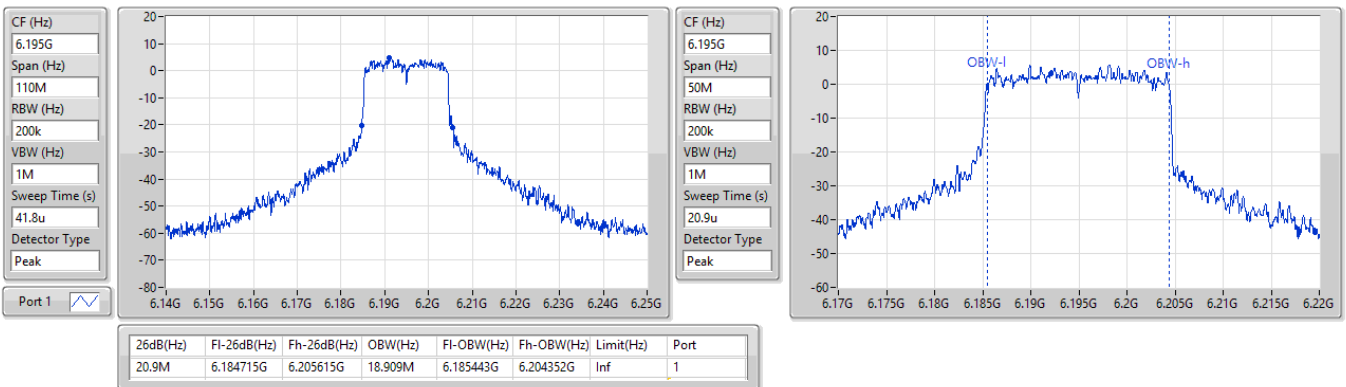


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6195MHz

31/08/2023

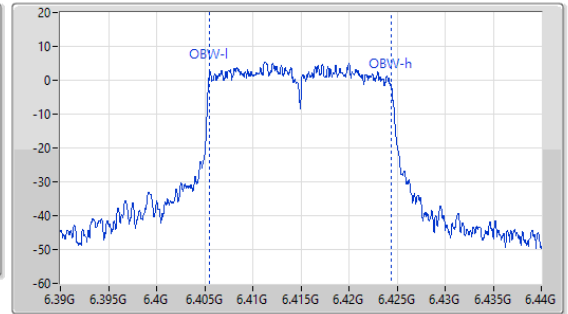
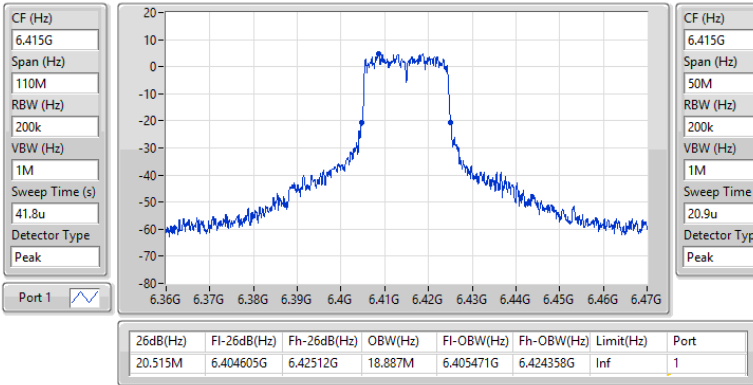


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6415MHz

31/08/2023

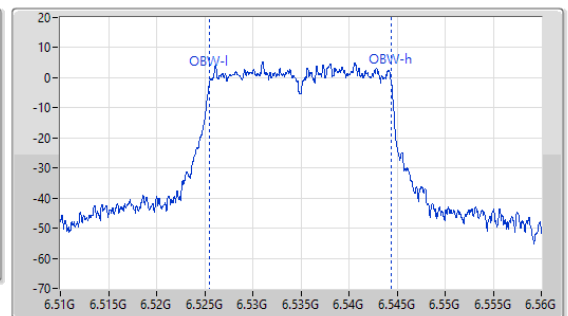
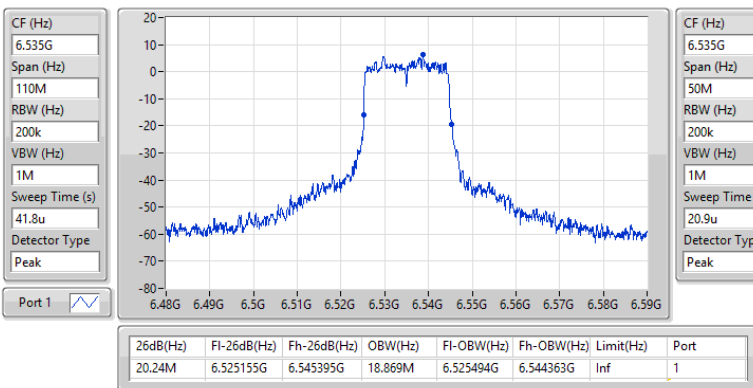


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6535MHz

31/08/2023

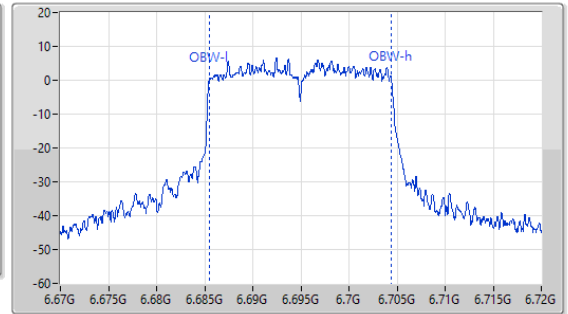
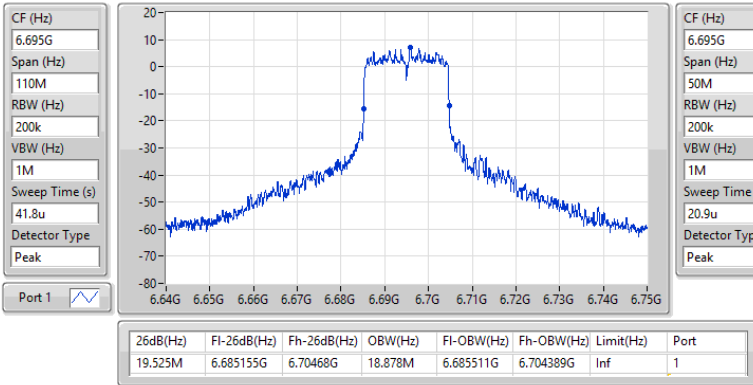


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6695MHz

31/08/2023

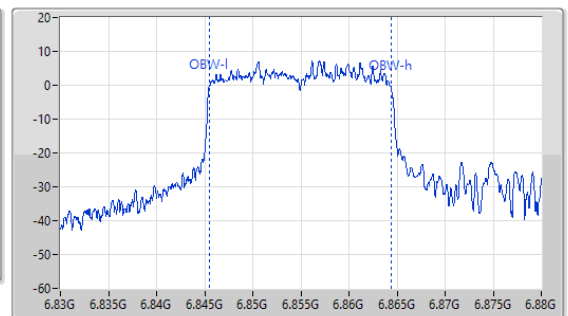
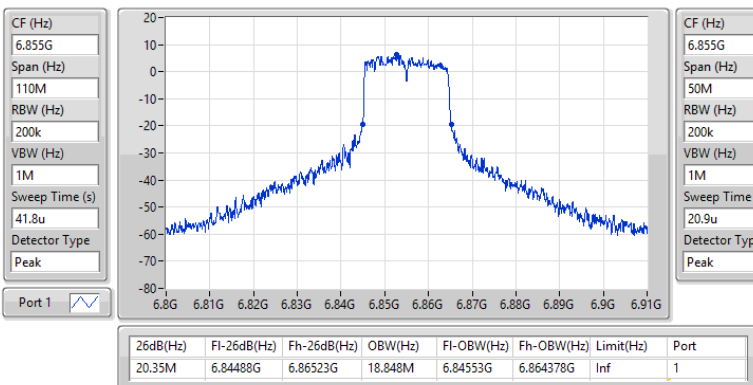


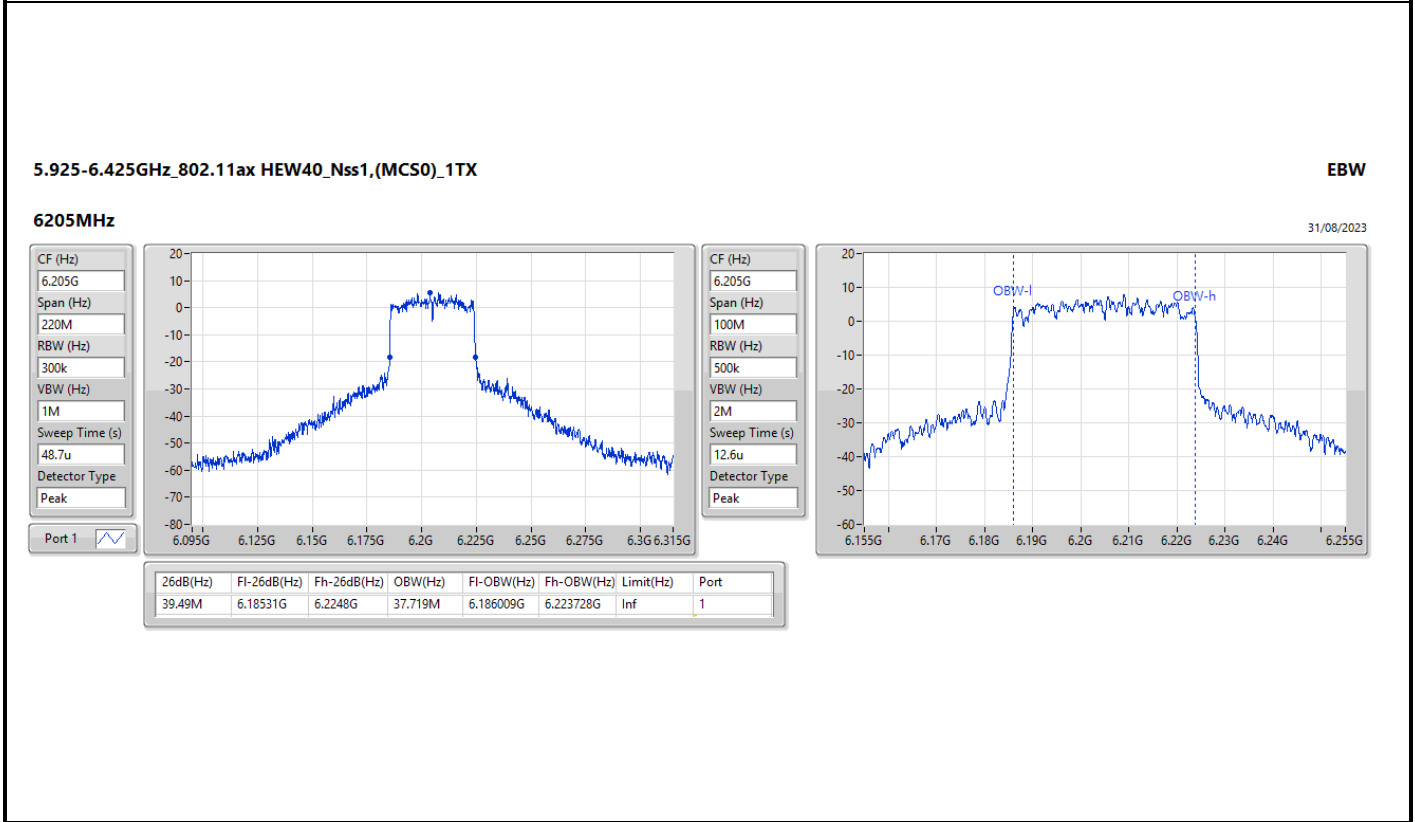
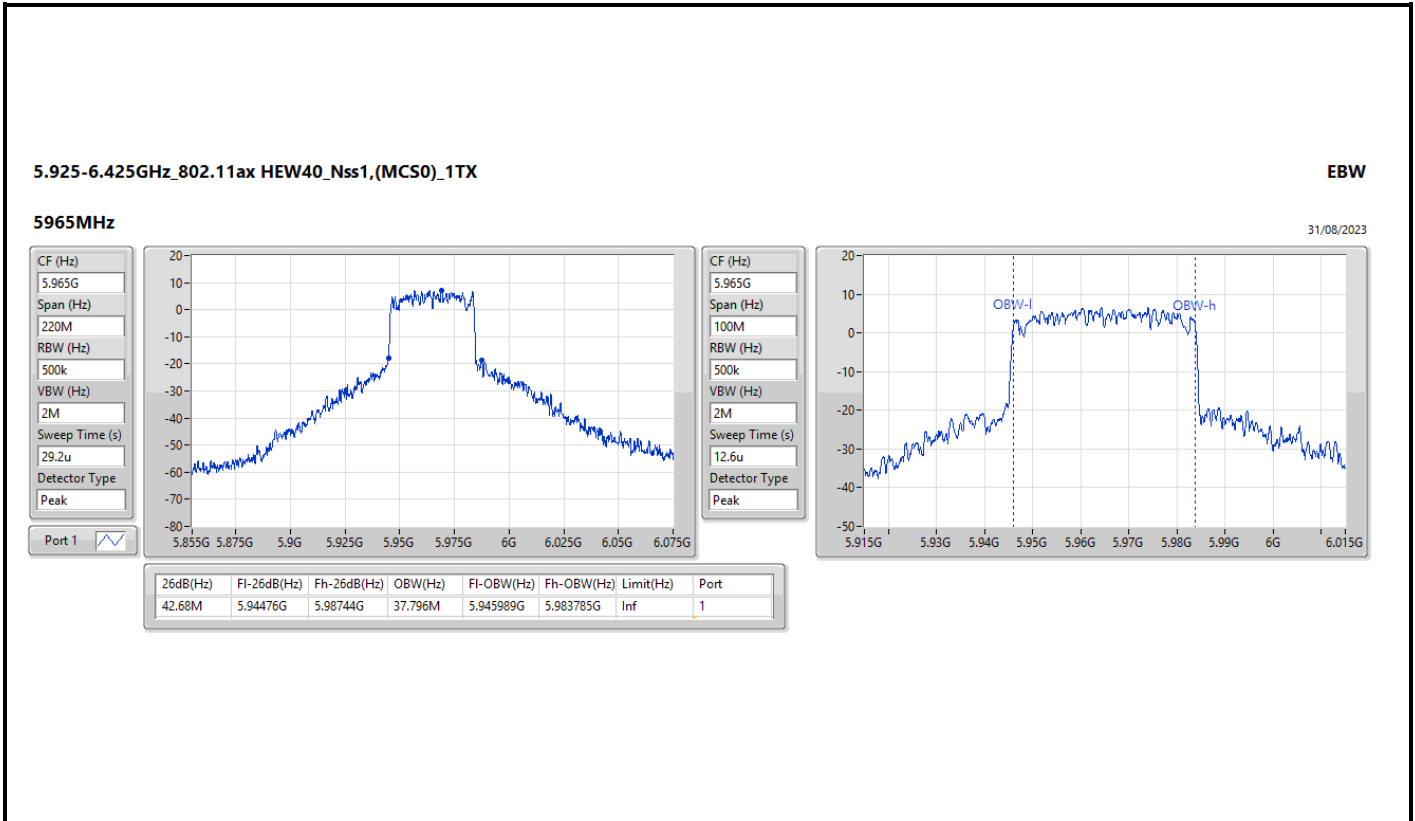
6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6855MHz

31/08/2023



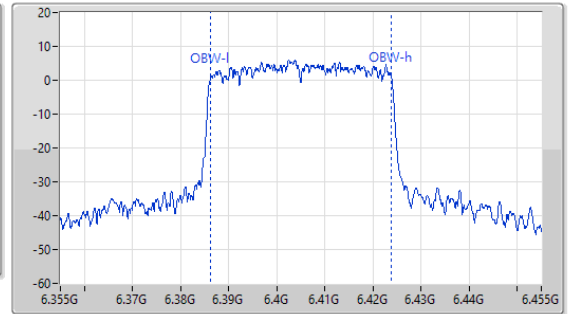
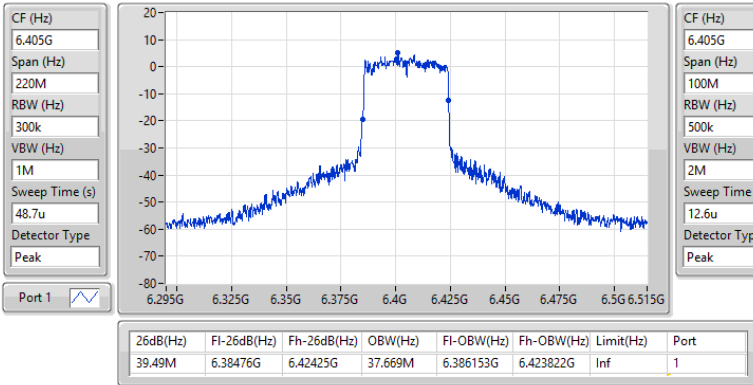


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

6405MHz

31/08/2023

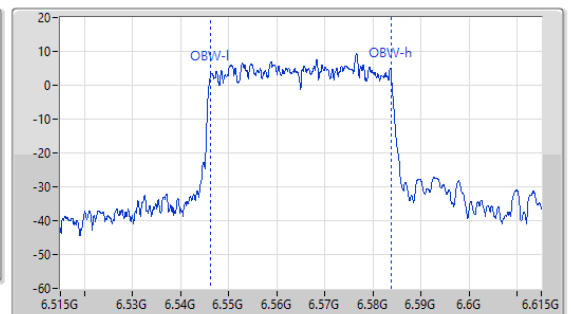
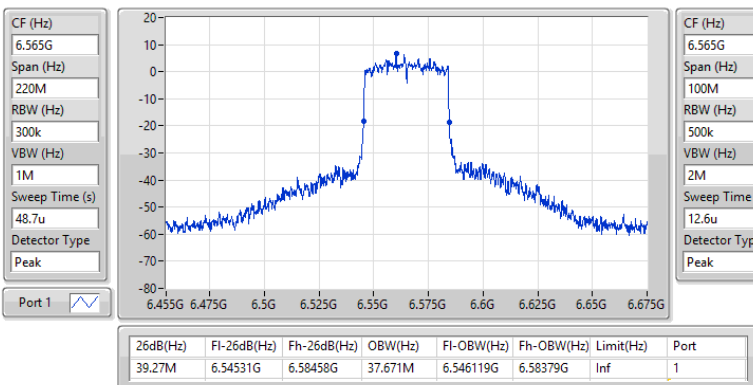


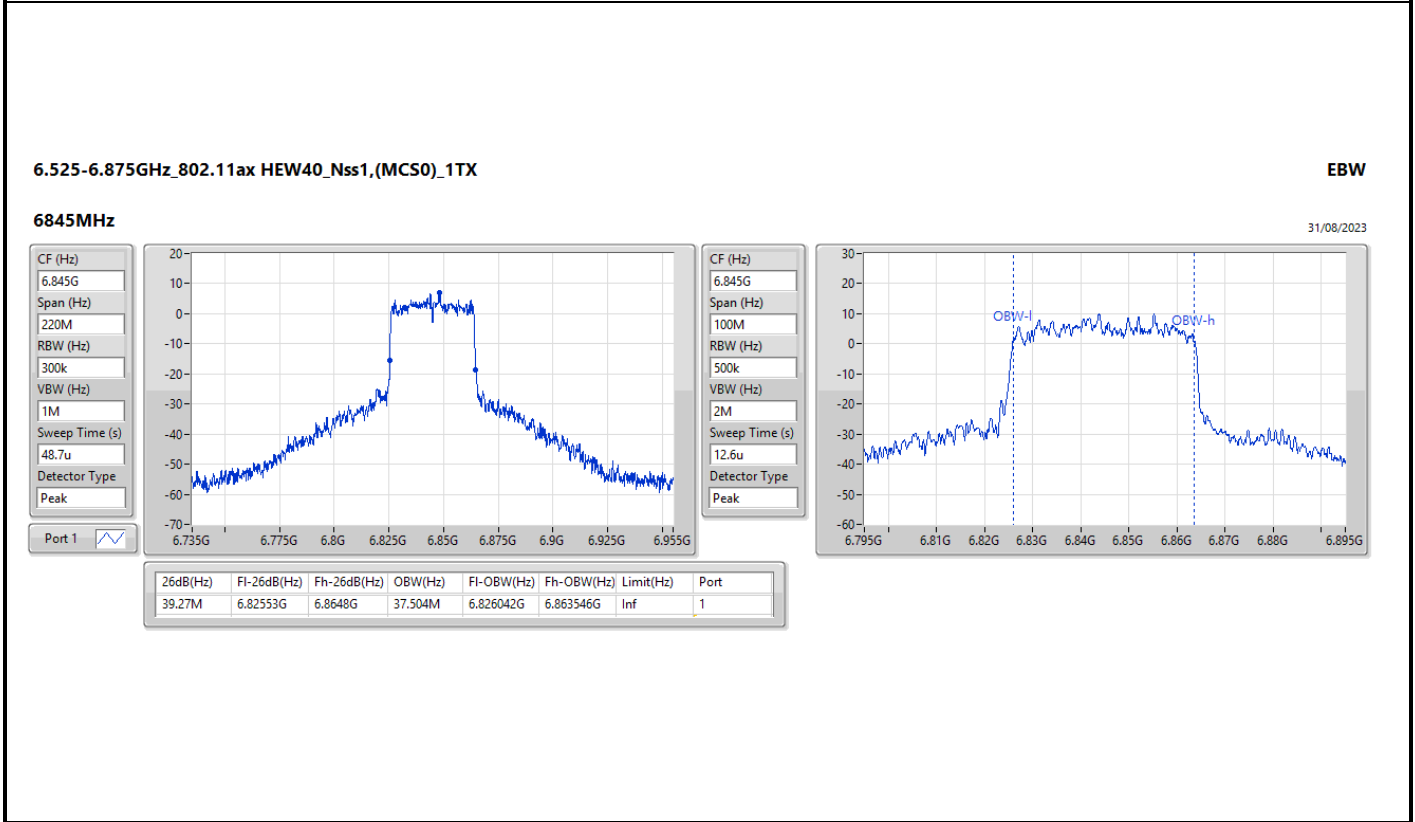
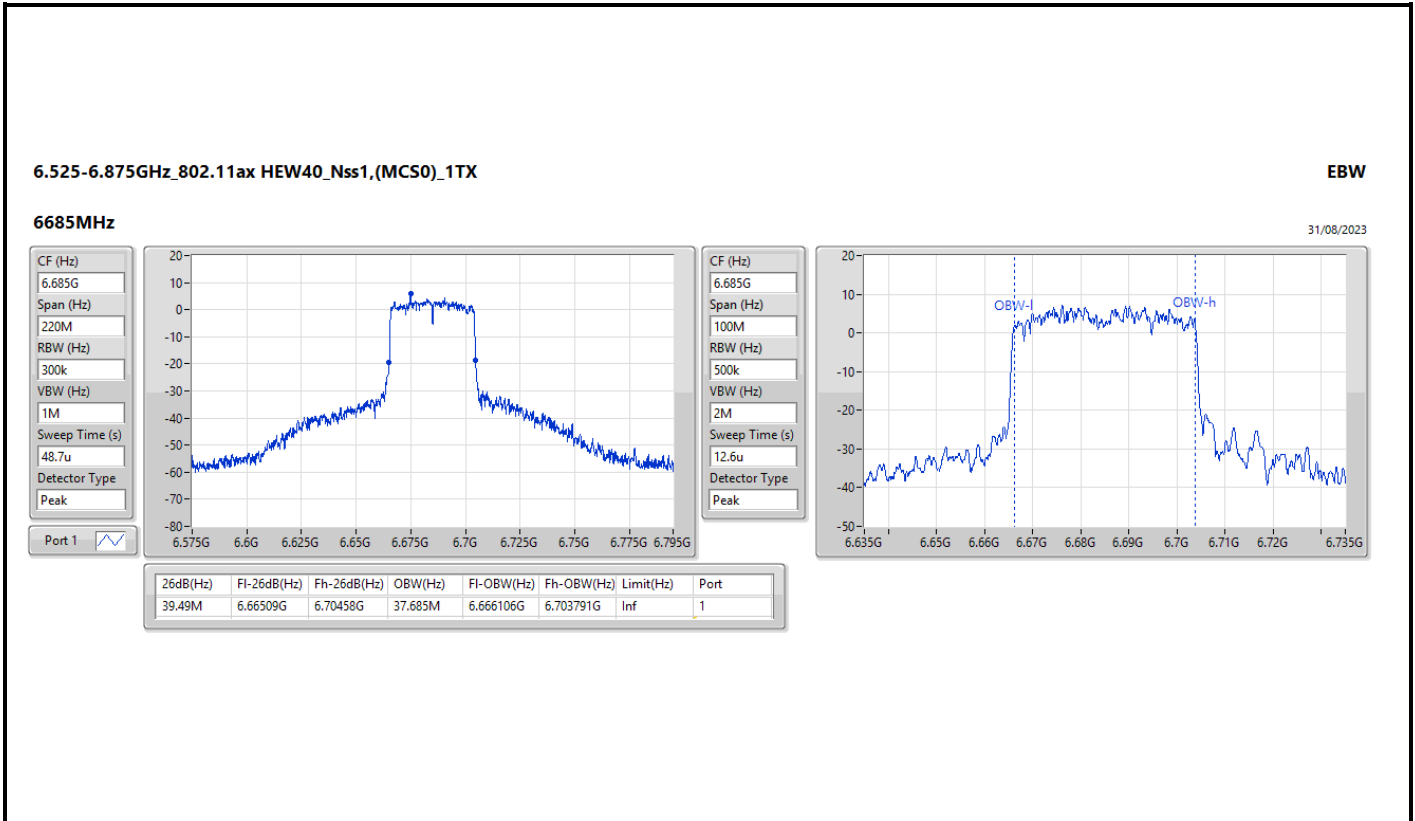
6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

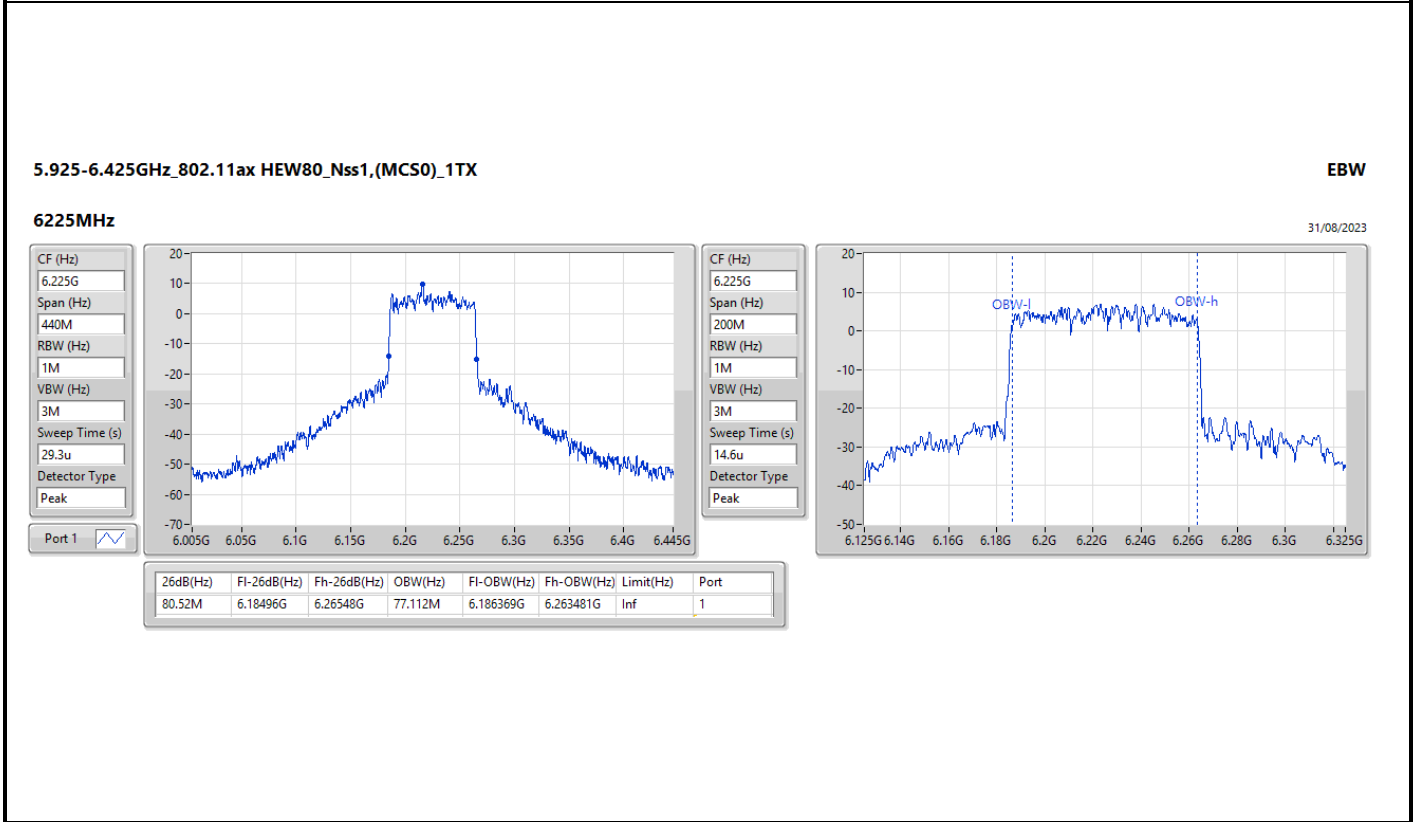
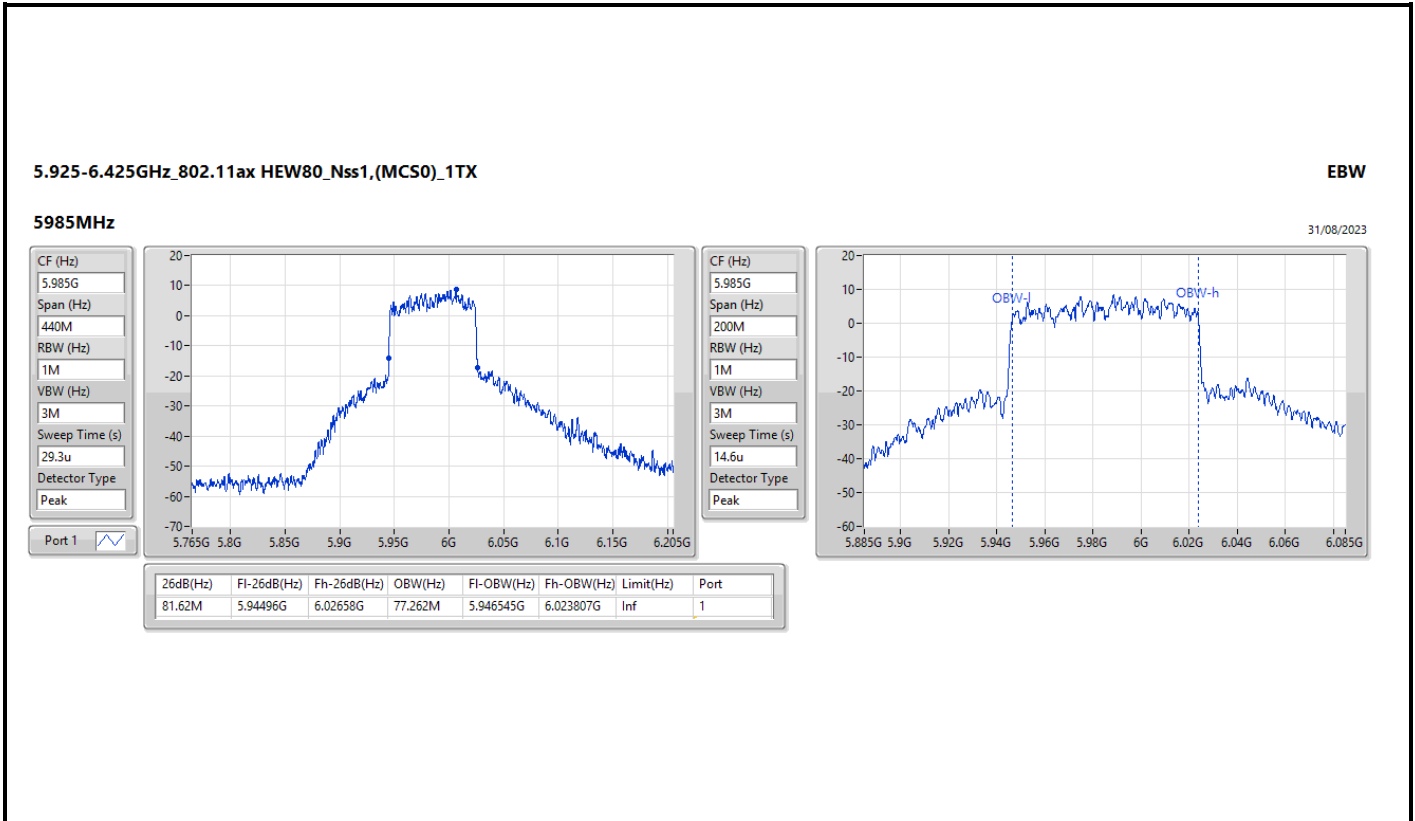
EBW

6565MHz

31/08/2023





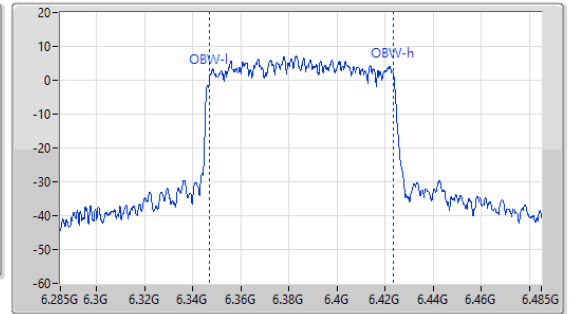
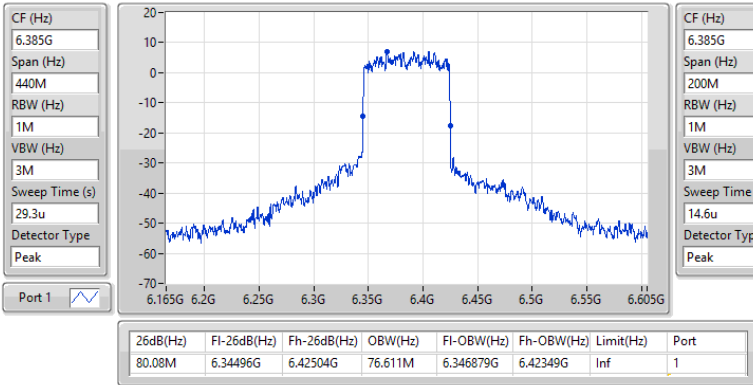


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

6385MHz

31/08/2023

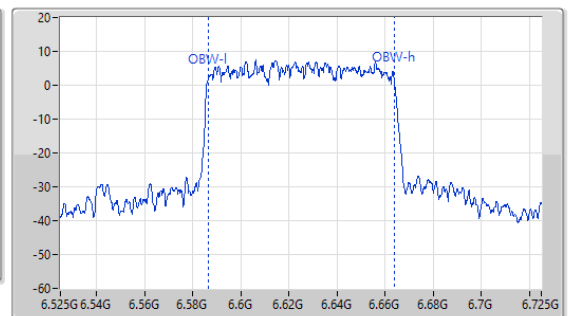
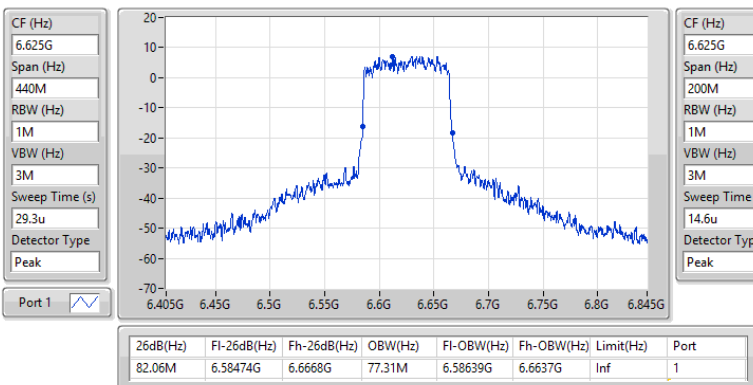


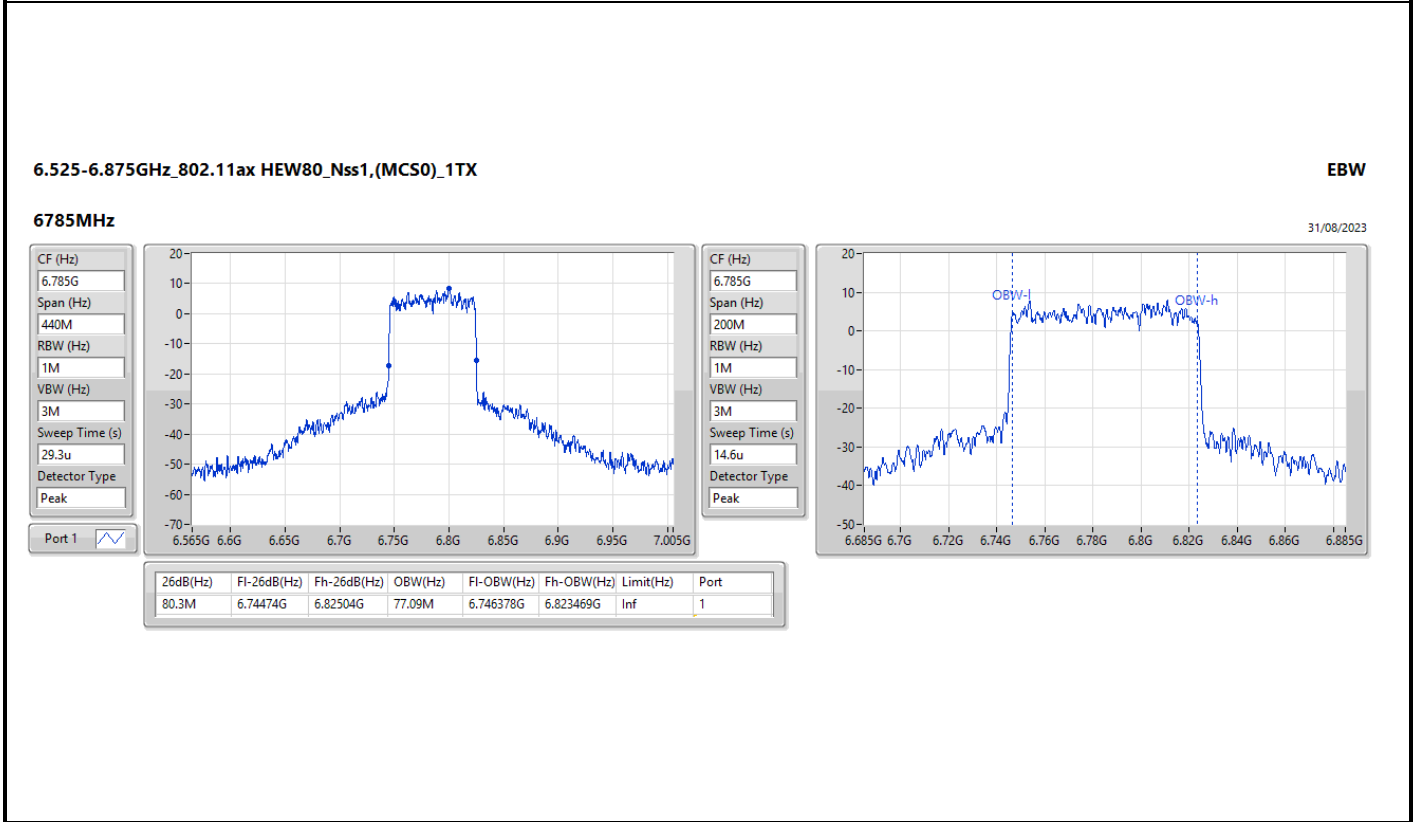
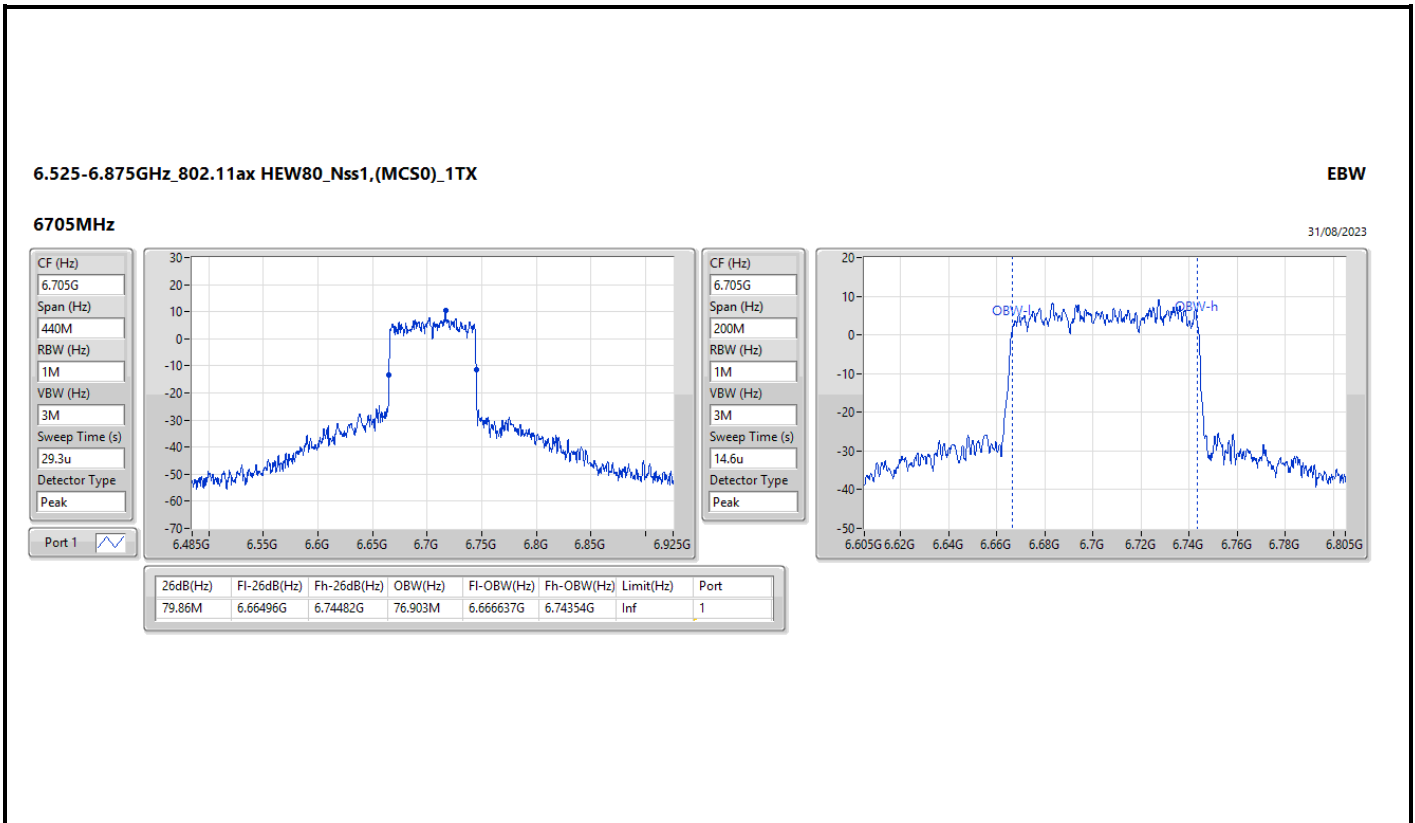
6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

6625MHz

31/08/2023



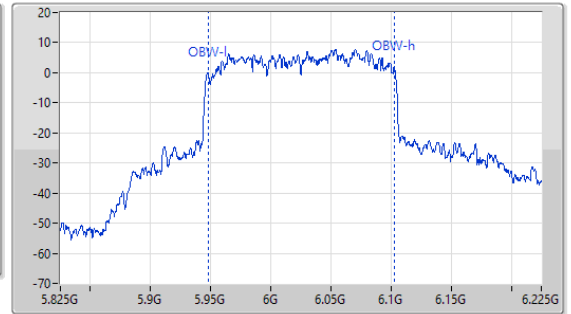
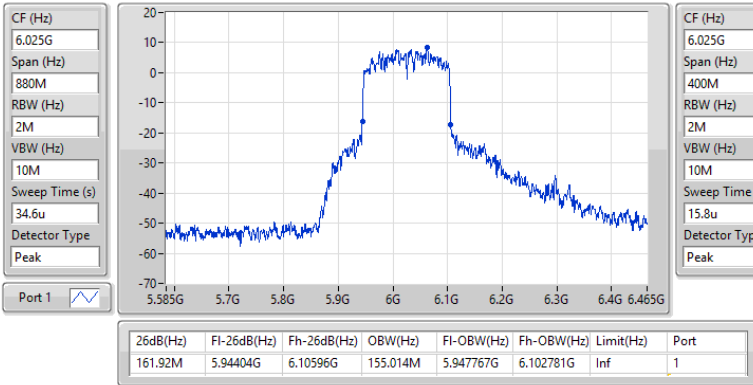


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

6025MHz

31/08/2023

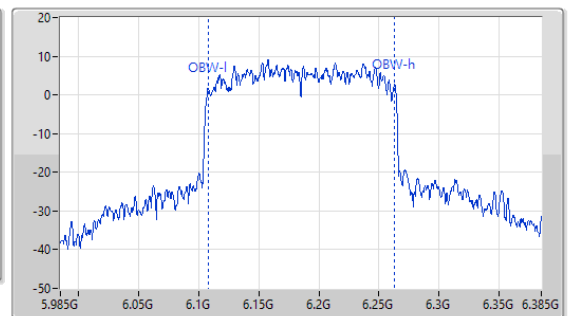
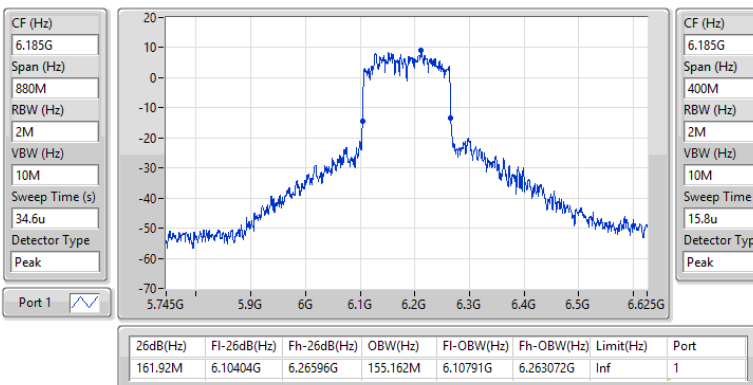


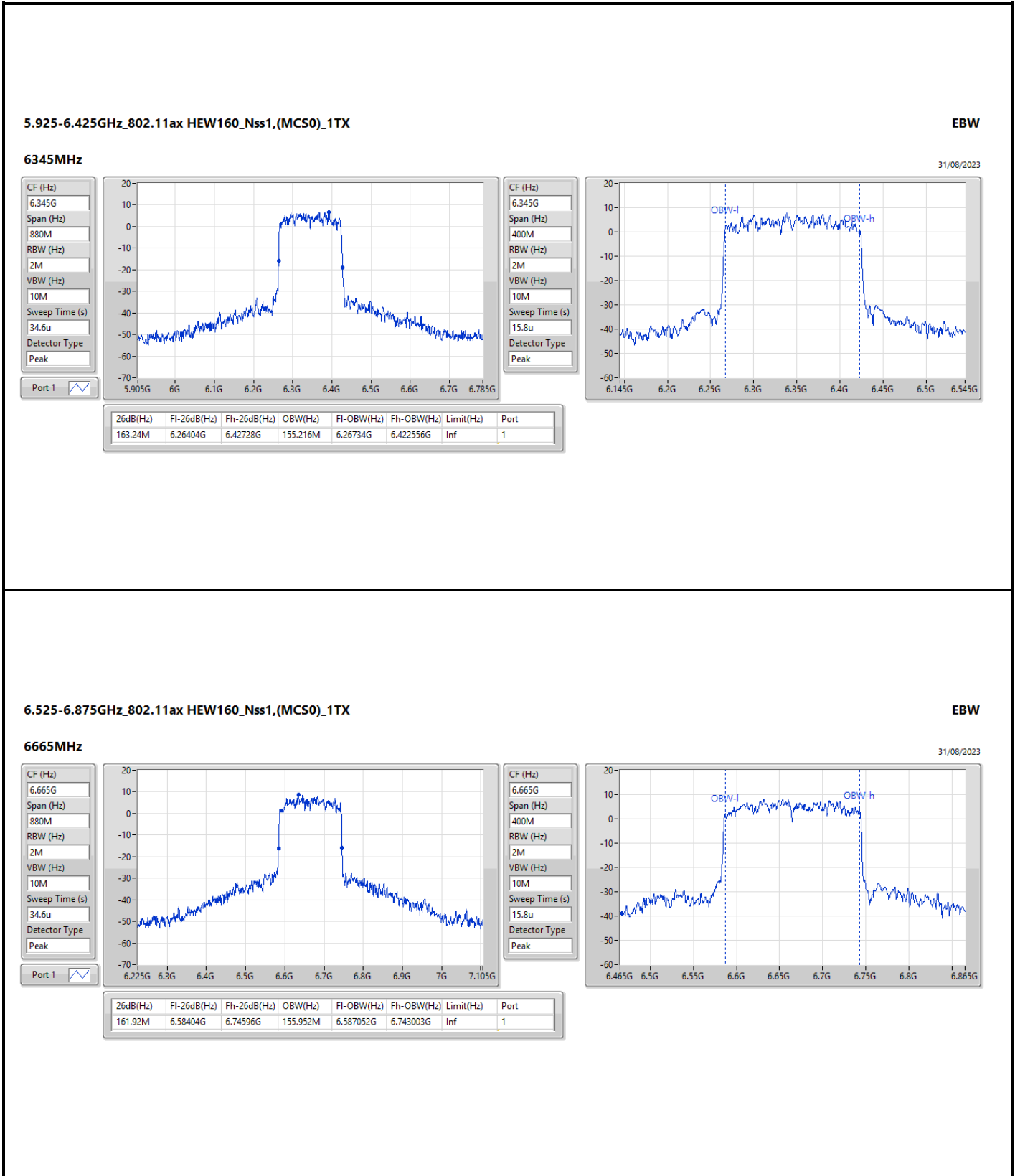
5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

6185MHz

31/08/2023



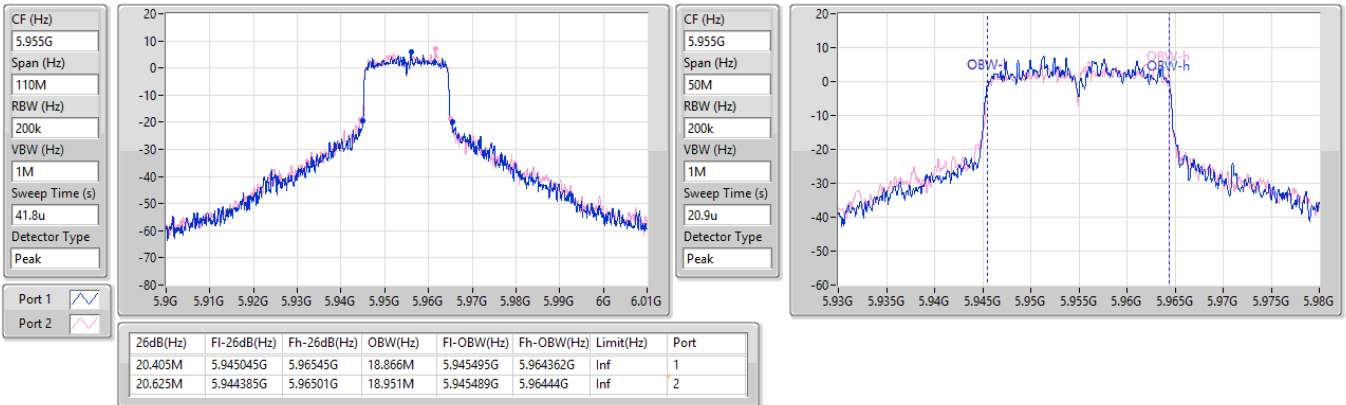


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5955MHz

31/08/2023

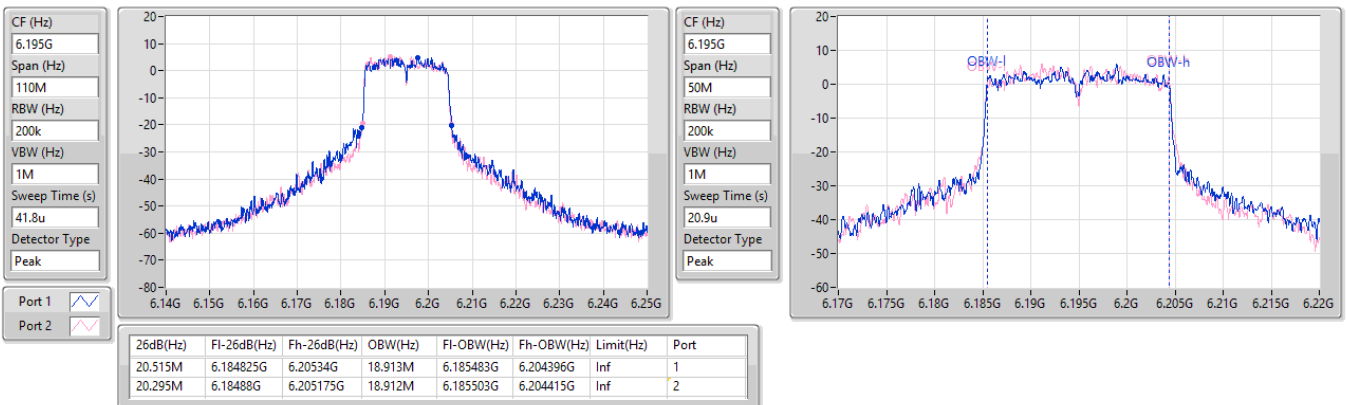


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

6195MHz

31/08/2023

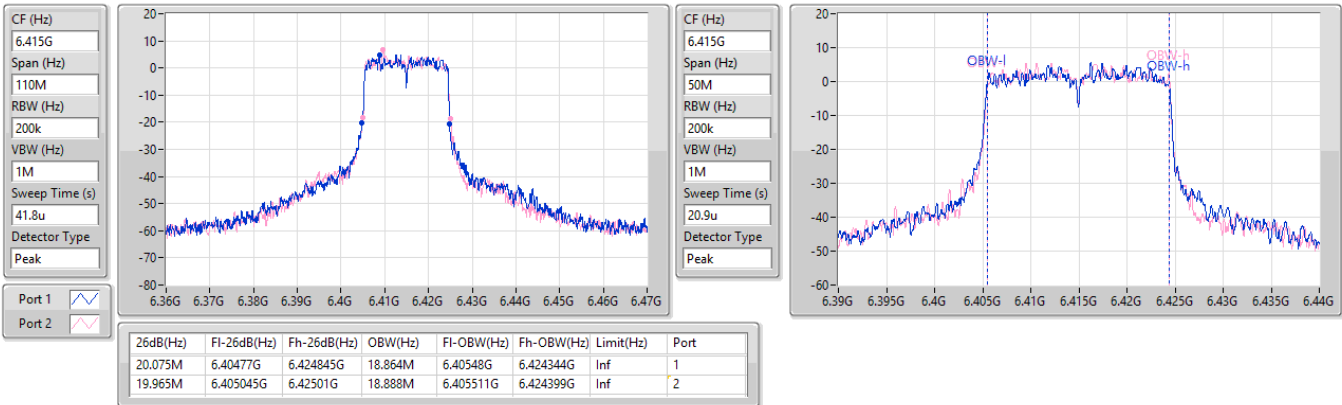


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

6415MHz

31/08/2023

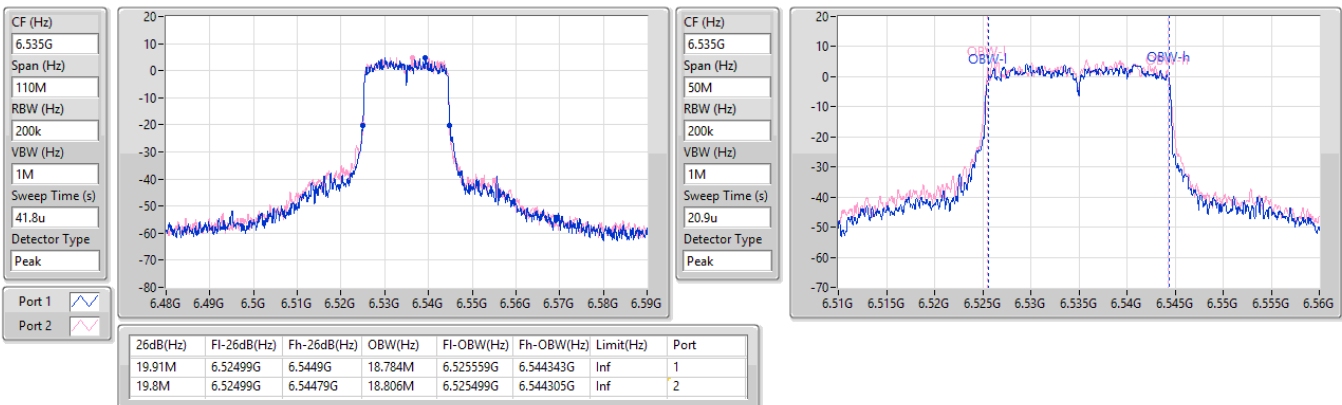


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

6535MHz

31/08/2023

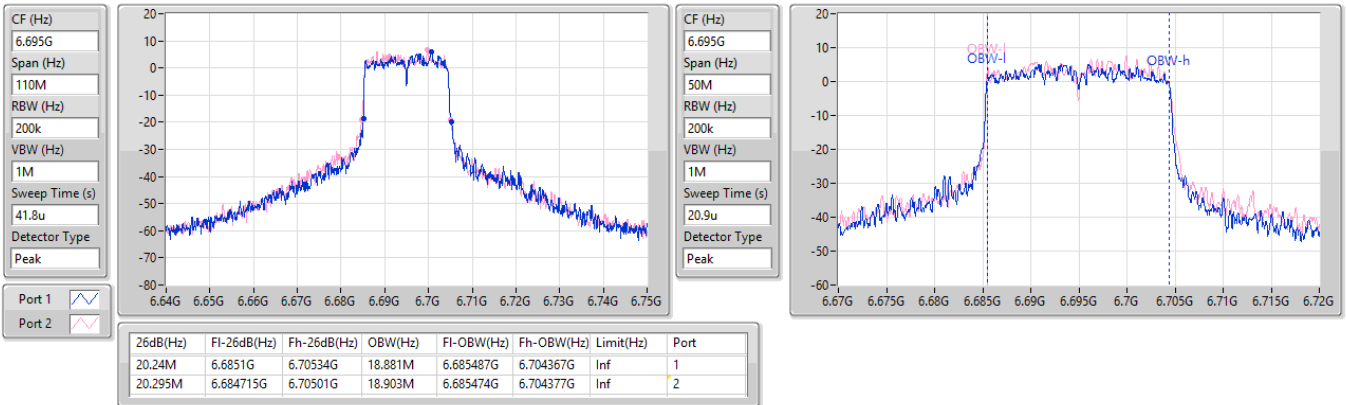


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

6695MHz

31/08/2023

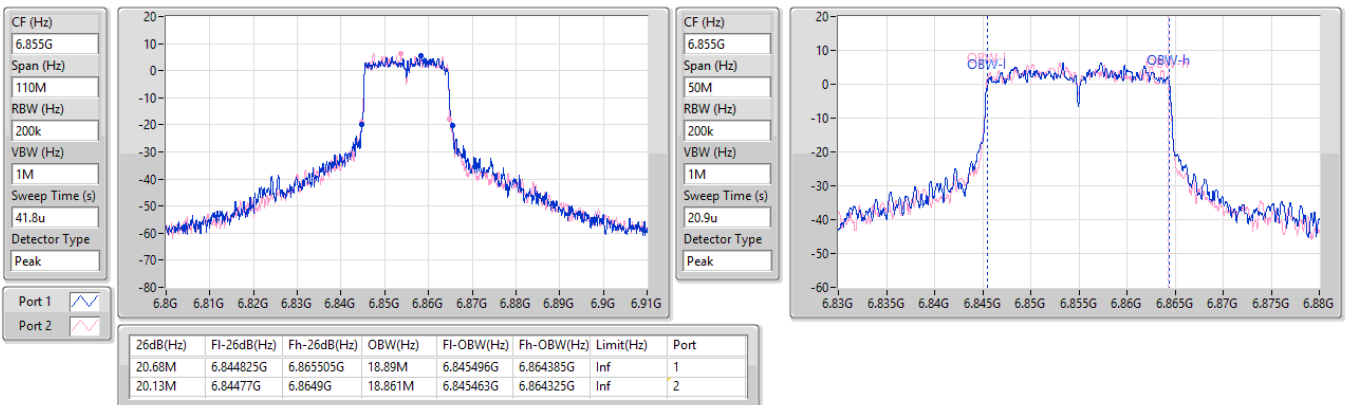


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

6855MHz

31/08/2023

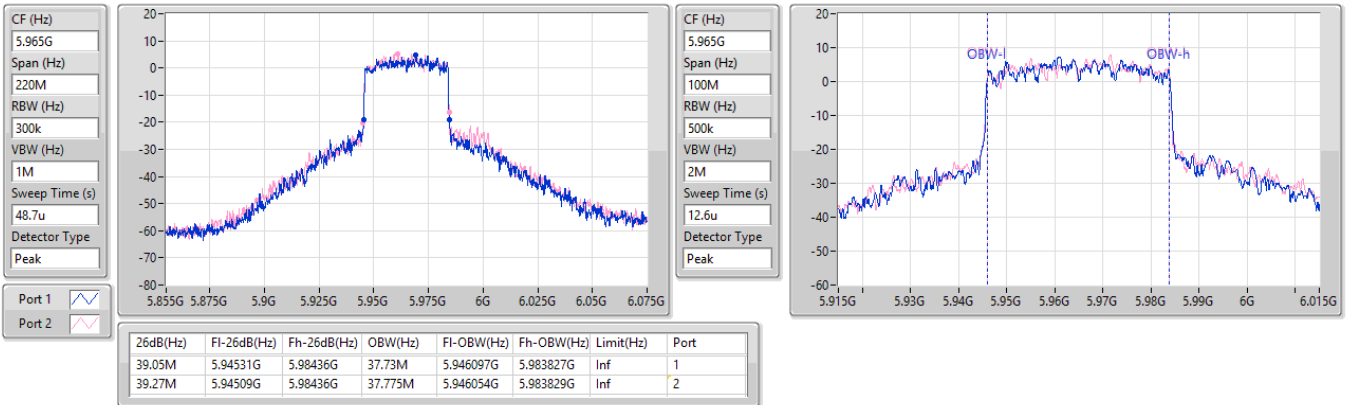


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5965MHz

31/08/2023

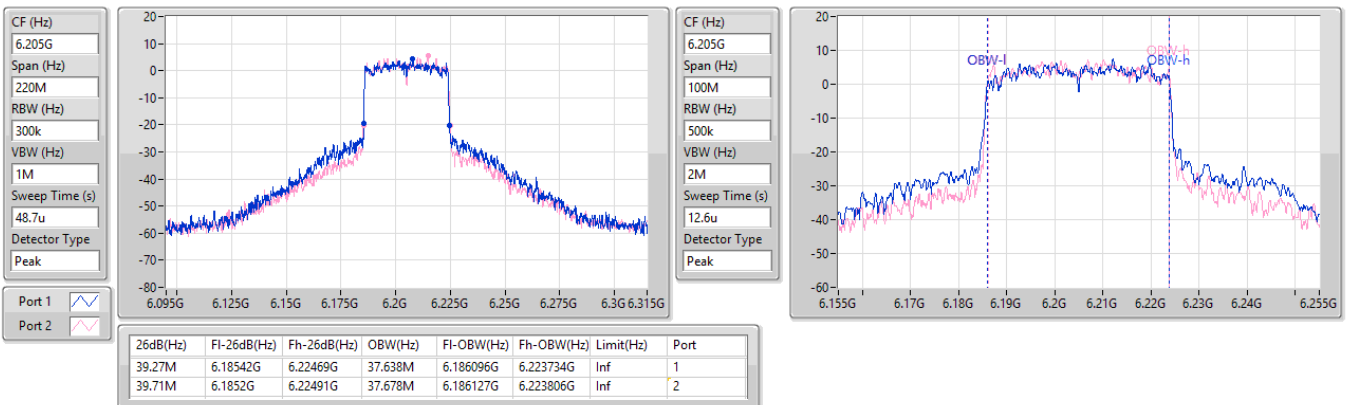


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

6205MHz

31/08/2023



5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

6405MHz

31/08/2023

CF (Hz)
6.405G

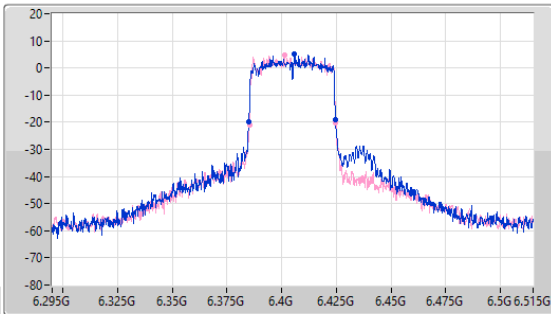
Span (Hz)
220M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
48.7u

Detector Type
Peak



CF (Hz)
6.405G

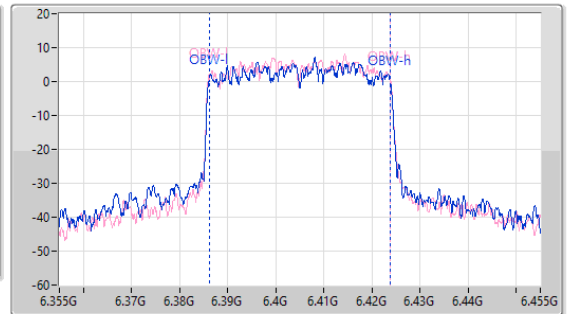
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 39.82M | 6.38487G | 6.42469G | 37.626M | 6.386144G | 6.42377G | Inf | 1 |
| 39.6M | 6.3852G | 6.4248G | 37.613M | 6.386117G | 6.423731G | Inf | 2 |

6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

6565MHz

31/08/2023

CF (Hz)
6.565G

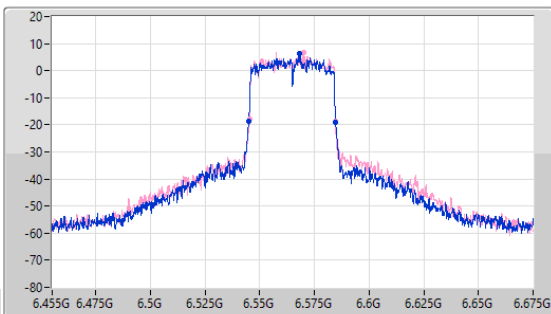
Span (Hz)
220M

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
48.7u

Detector Type
Peak



CF (Hz)
6.565G

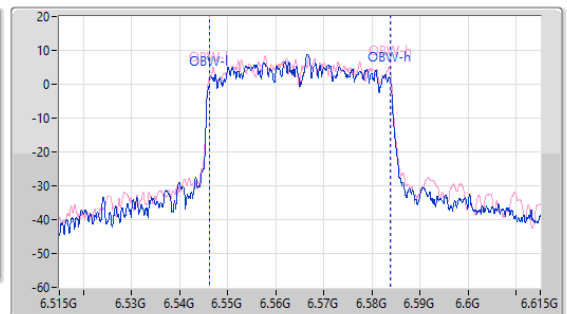
Span (Hz)
100M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
12.6u

Detector Type
Peak



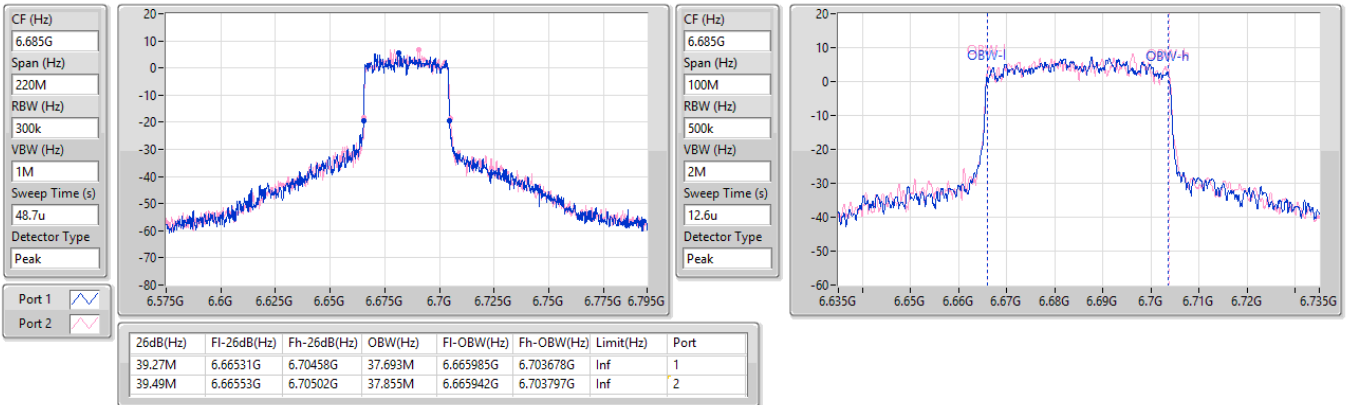
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 39.82M | 6.54487G | 6.58469G | 37.584M | 6.546212G | 6.583796G | Inf | 1 |
| 39.16M | 6.54531G | 6.58447G | 37.761M | 6.546141G | 6.583903G | Inf | 2 |

6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

6685MHz

31/08/2023

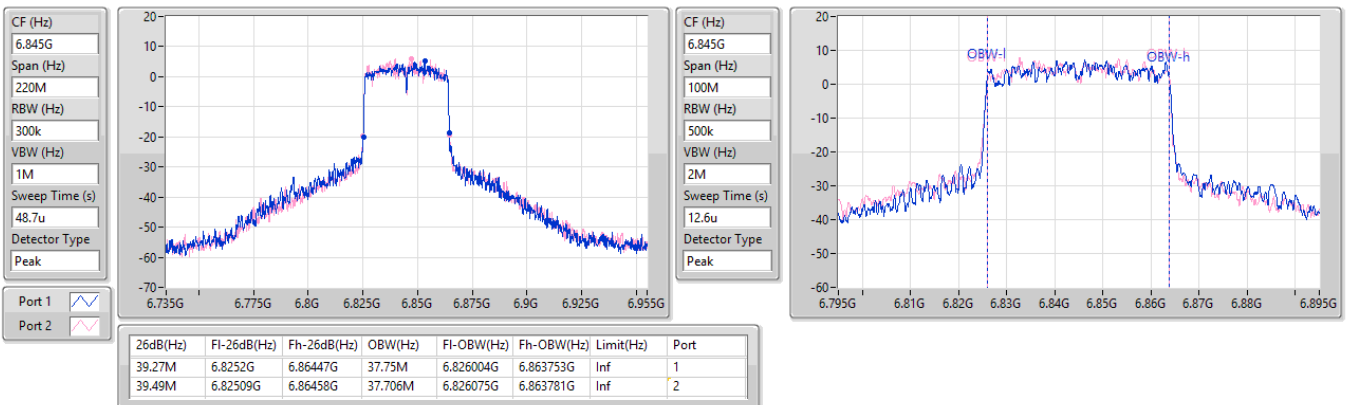


6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

6845MHz

31/08/2023

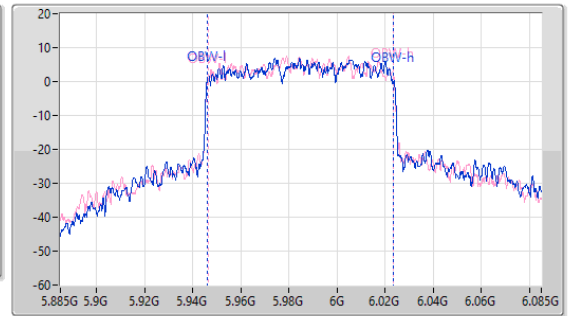
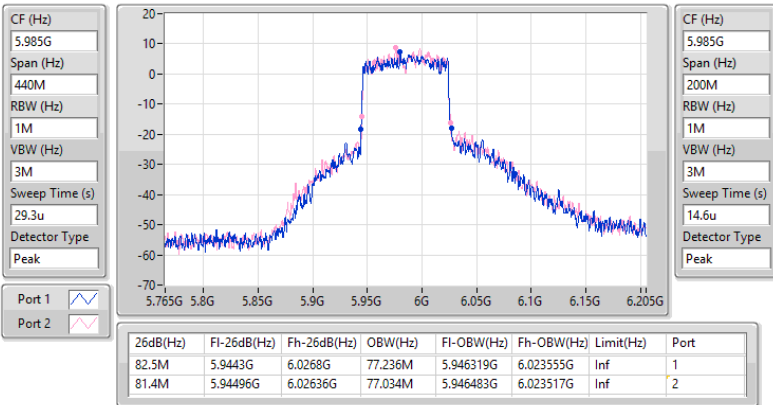


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5985MHz

31/08/2023

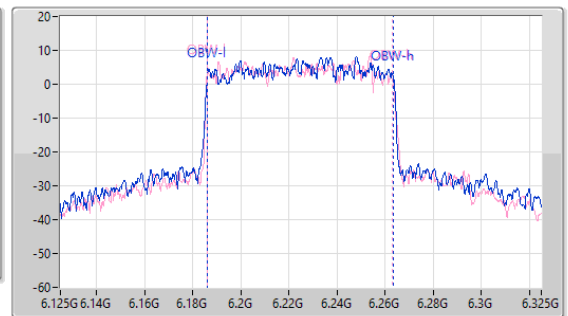
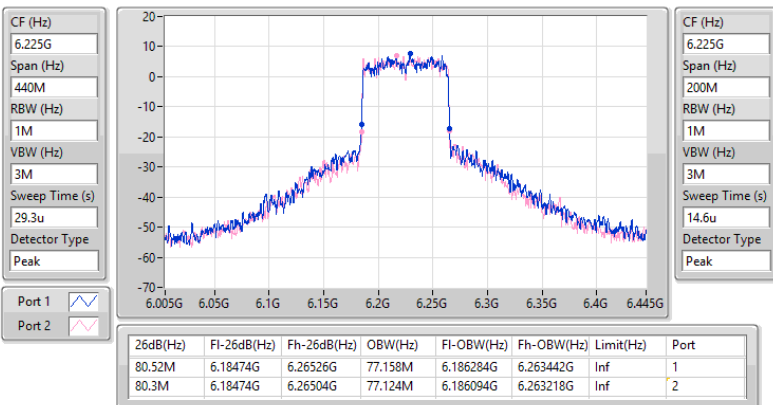


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

6225MHz

31/08/2023

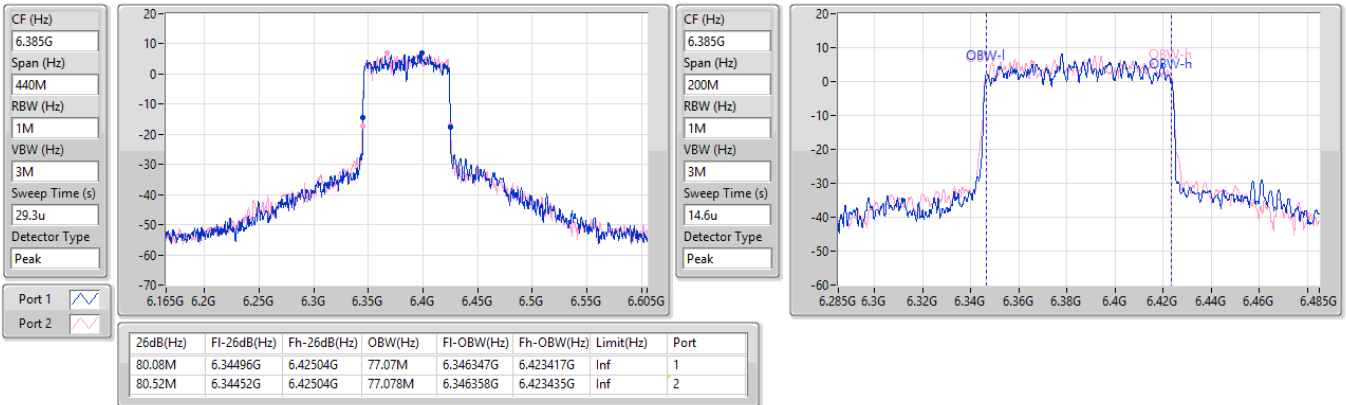


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

6385MHz

31/08/2023

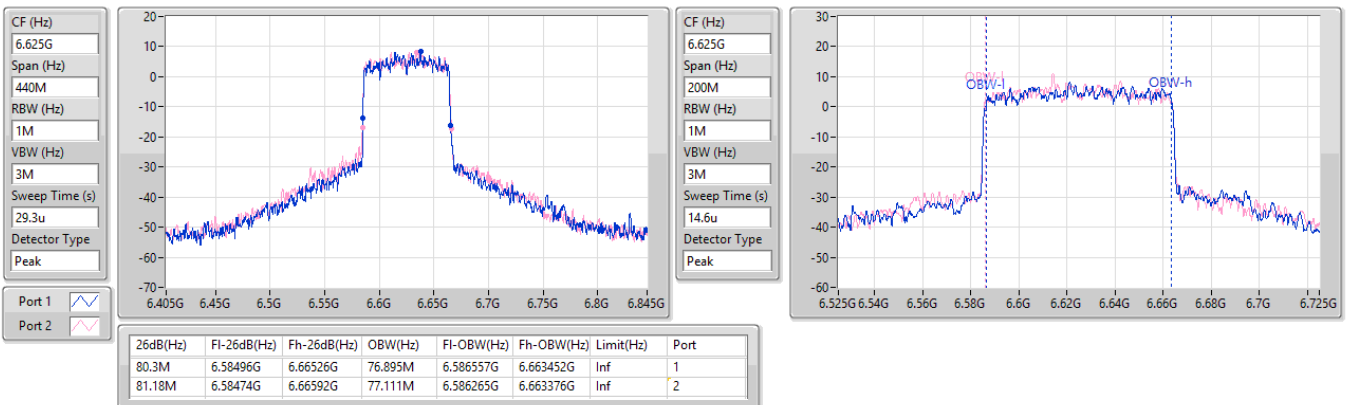


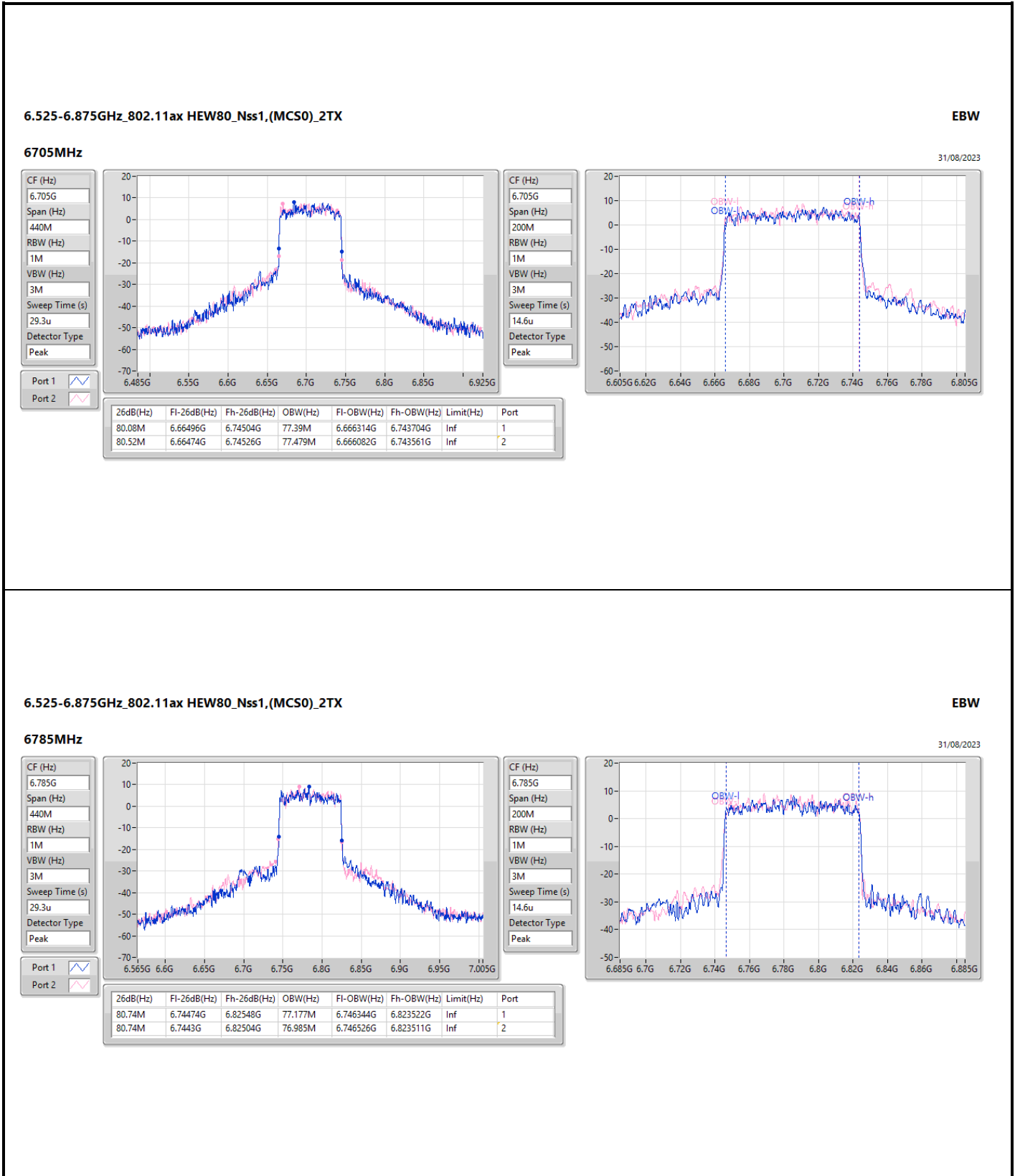
6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

6625MHz

31/08/2023



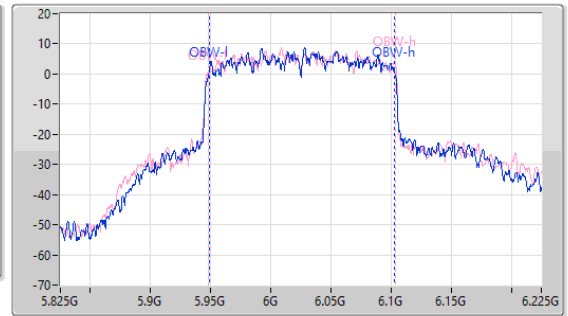
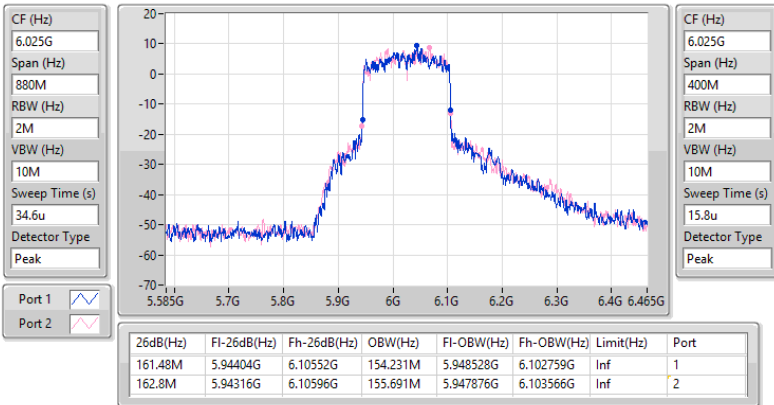


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

6025MHz

31/08/2023

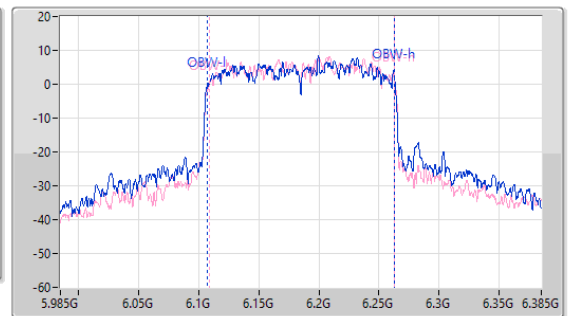
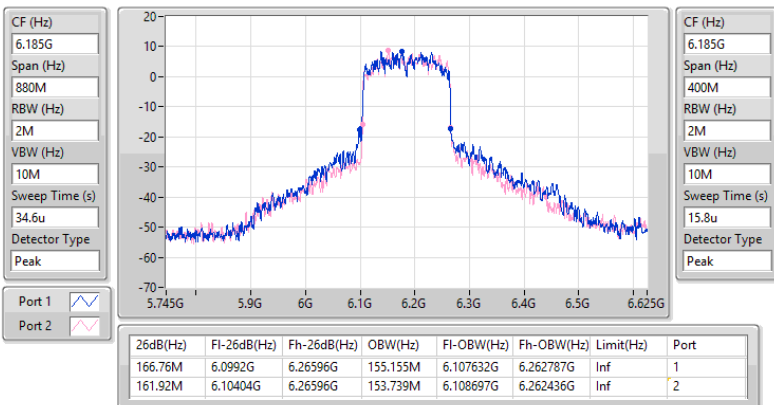


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

6185MHz

31/08/2023

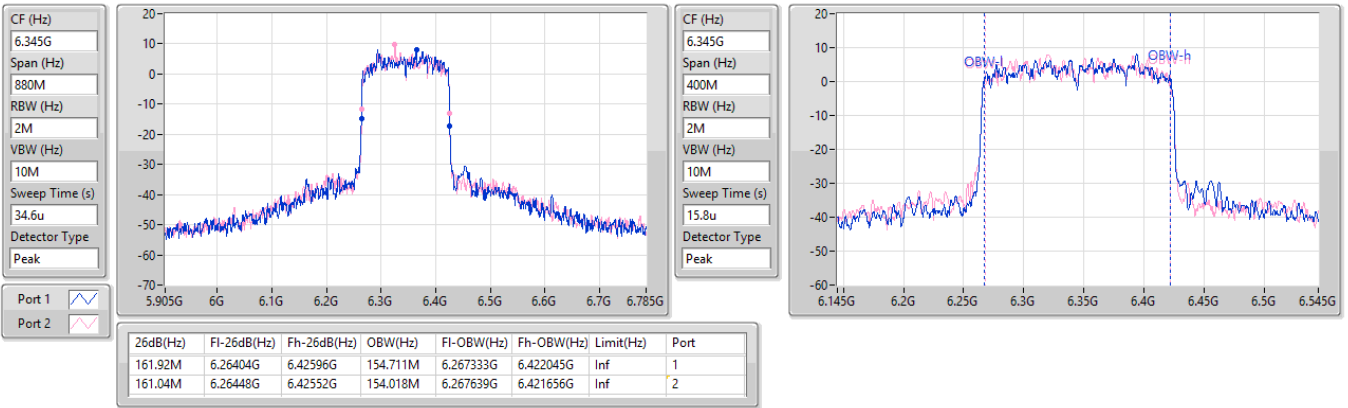


5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

6345MHz

31/08/2023

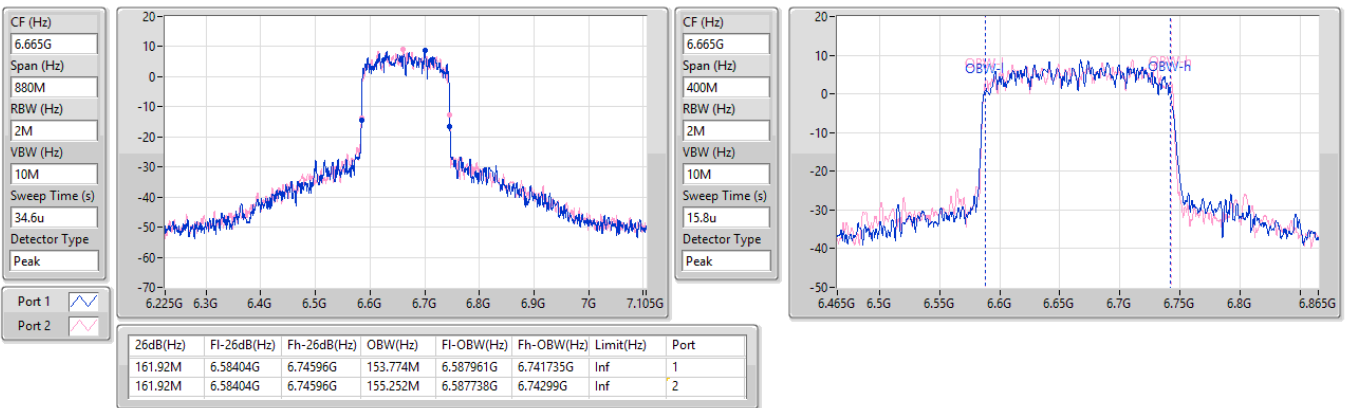


6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

6665MHz

31/08/2023



5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5955MHz

31/08/2023

CF (Hz)
5.955G

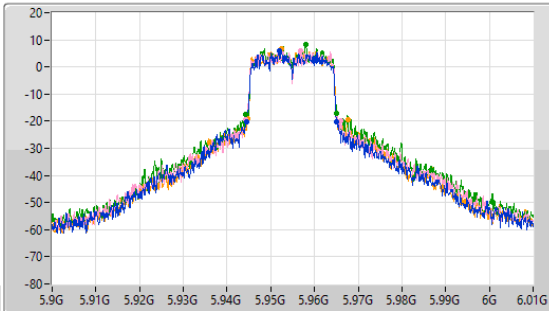
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
5.955G

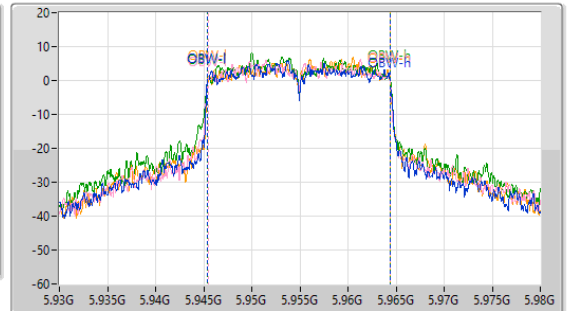
Span (Hz)
50M

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 |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 20.735M | 5.944385G | 5.96512G | 18.943M | 5.945426G | 5.964369G | Inf | 1 |
| 21.725M | 5.944275G | 5.966G | 18.892M | 5.945464G | 5.964356G | Inf | 2 |
| 20.9M | 5.94422G | 5.96512G | 18.989M | 5.945401G | 5.964391G | Inf | 3 |
| 22.825M | 5.94477G | 5.967595G | 18.884M | 5.945458G | 5.964343G | Inf | 4 |

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6195MHz

31/08/2023

CF (Hz)
6.195G

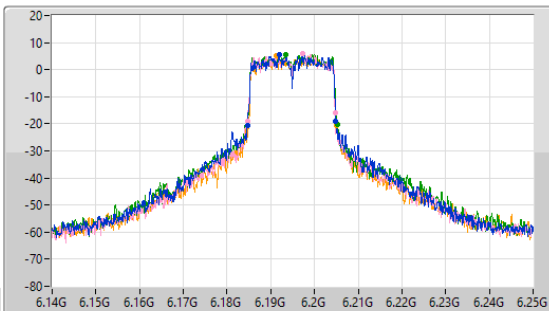
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
6.195G

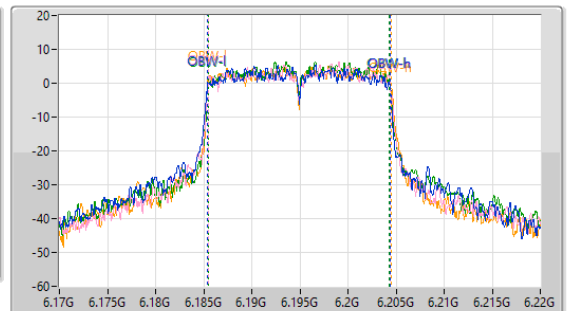
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

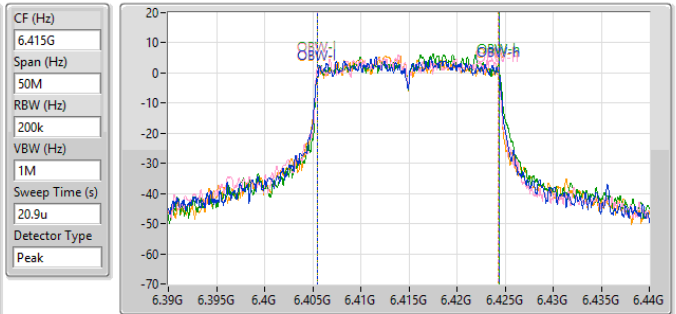
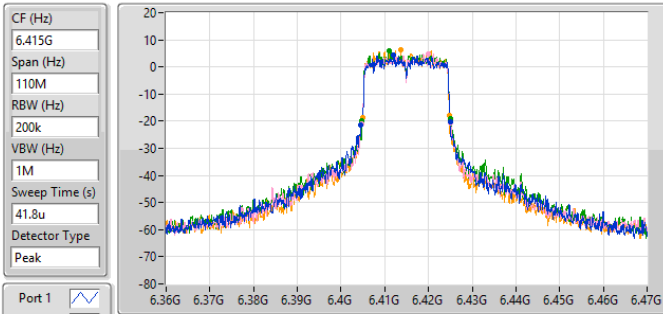
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 20.24M | 6.18466G | 6.2049G | 18.922M | 6.185421G | 6.204343G | Inf | 1 |
| 20.02M | 6.18466G | 6.20468G | 18.915M | 6.18547G | 6.204385G | Inf | 2 |
| 20.405M | 6.18477G | 6.205175G | 18.815M | 6.185508G | 6.204323G | Inf | 3 |
| 20.35M | 6.184715G | 6.205065G | 18.988M | 6.18547G | 6.204458G | Inf | 4 |

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

6415MHz

31/08/2023



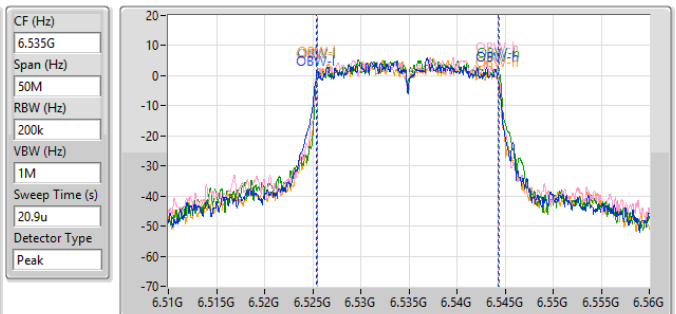
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 20.46M | 6.404495G | 6.424955G | 18.9M | 6.405491G | 6.424391G | Inf | 1 |
| 20.46M | 6.404605G | 6.425065G | 18.84M | 6.405459G | 6.424299G | Inf | 2 |
| 20.13M | 6.404825G | 6.424955G | 18.947M | 6.405473G | 6.42442G | Inf | 3 |
| 19.8M | 6.404935G | 6.424735G | 18.816M | 6.405515G | 6.424331G | Inf | 4 |

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

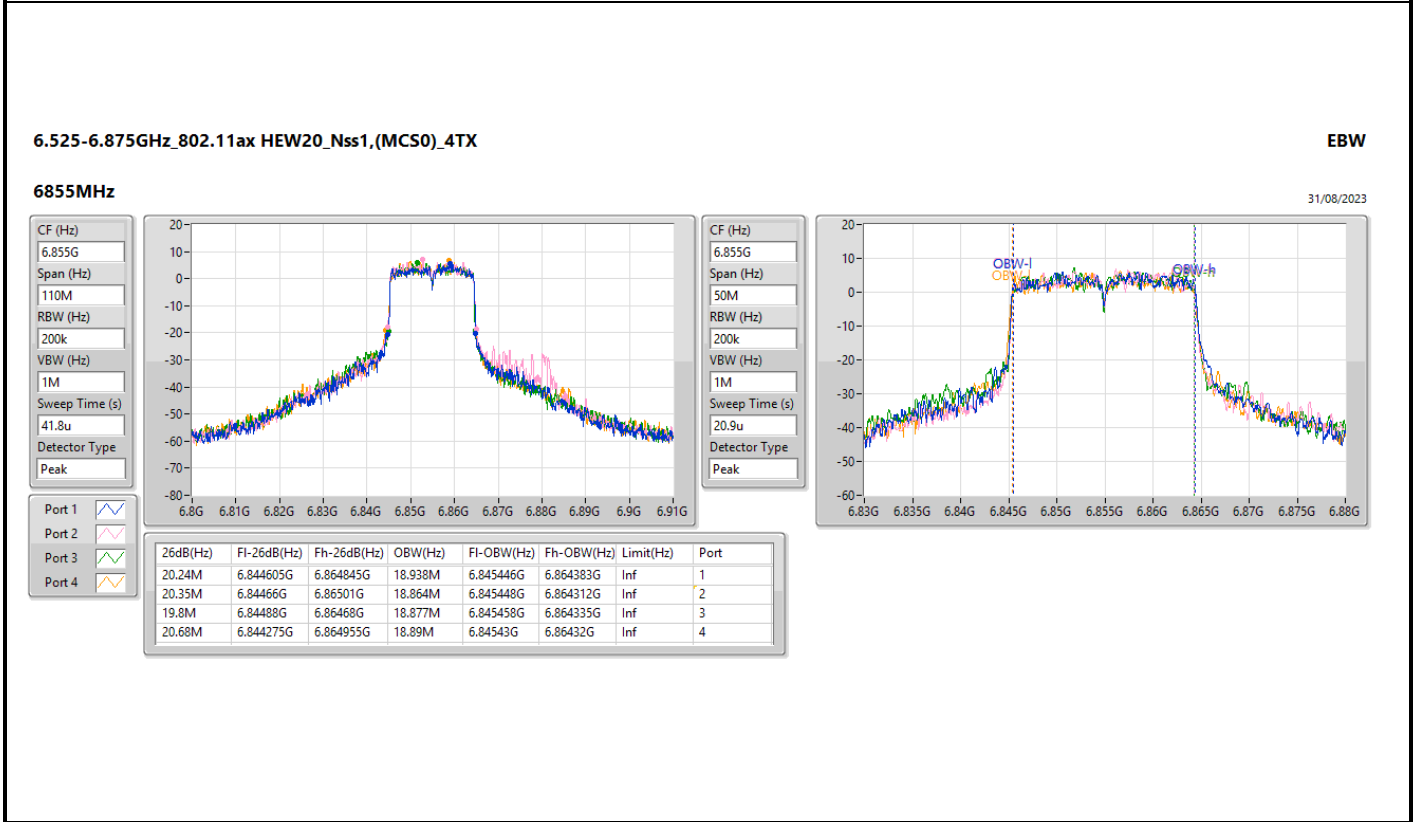
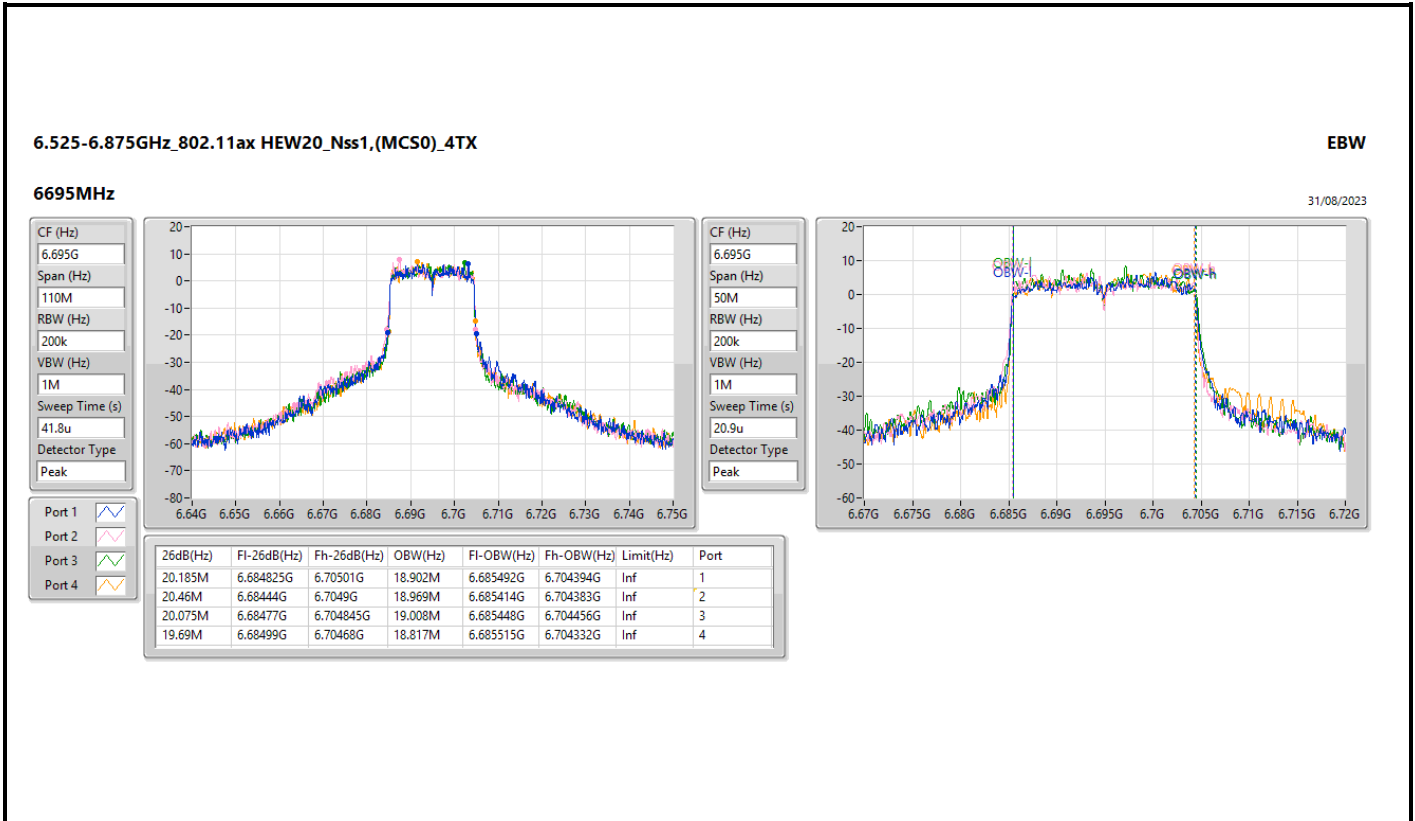
EBW

6535MHz

31/08/2023



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 20.24M | 6.524935G | 6.545175G | 18.903M | 6.525352G | 6.544255G | Inf | 1 |
| 19.965M | 6.524825G | 6.54479G | 18.925M | 6.525407G | 6.544332G | Inf | 2 |
| 19.8M | 6.524999G | 6.54479G | 18.966M | 6.52548G | 6.544446G | Inf | 3 |
| 19.91M | 6.524825G | 6.544735G | 18.866M | 6.525449G | 6.544316G | Inf | 4 |

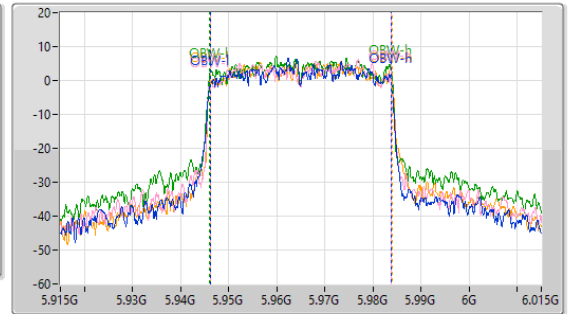
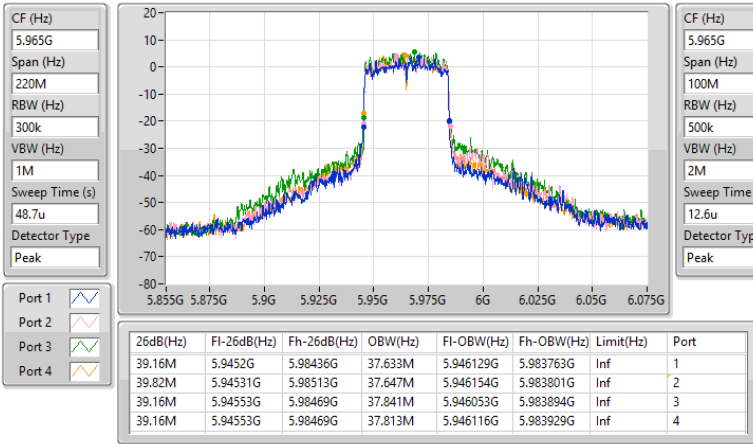


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5965MHz

31/08/2023

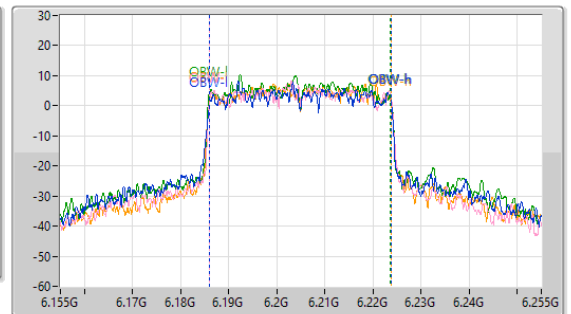
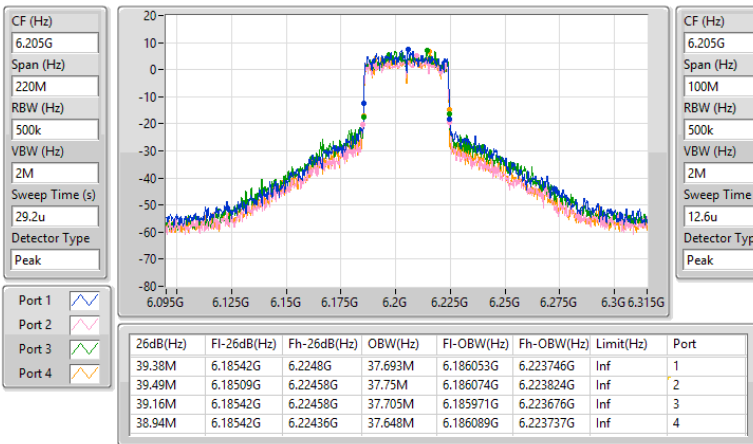


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6205MHz

31/08/2023

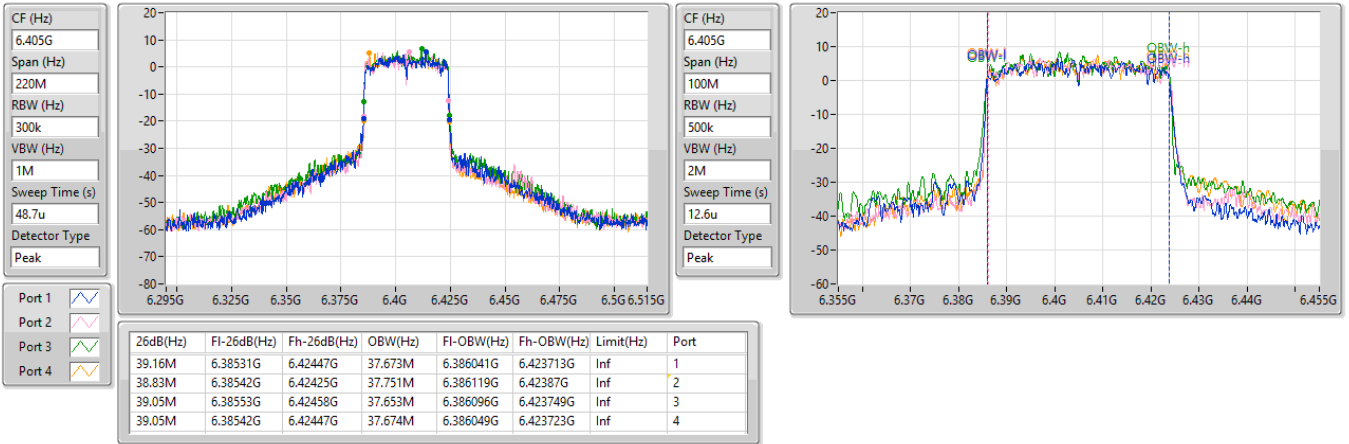


5.925-6.425GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6405MHz

31/08/2023

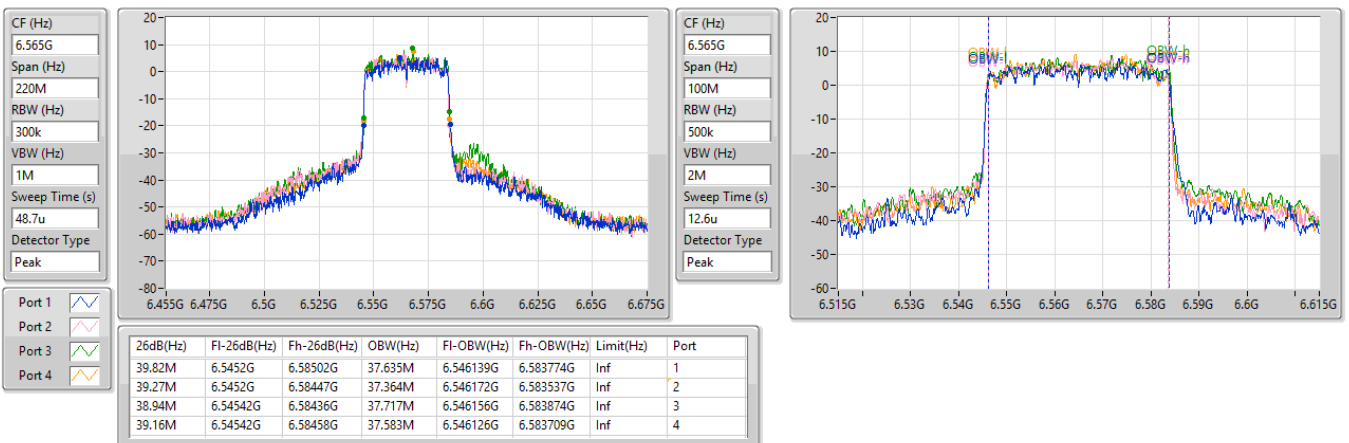


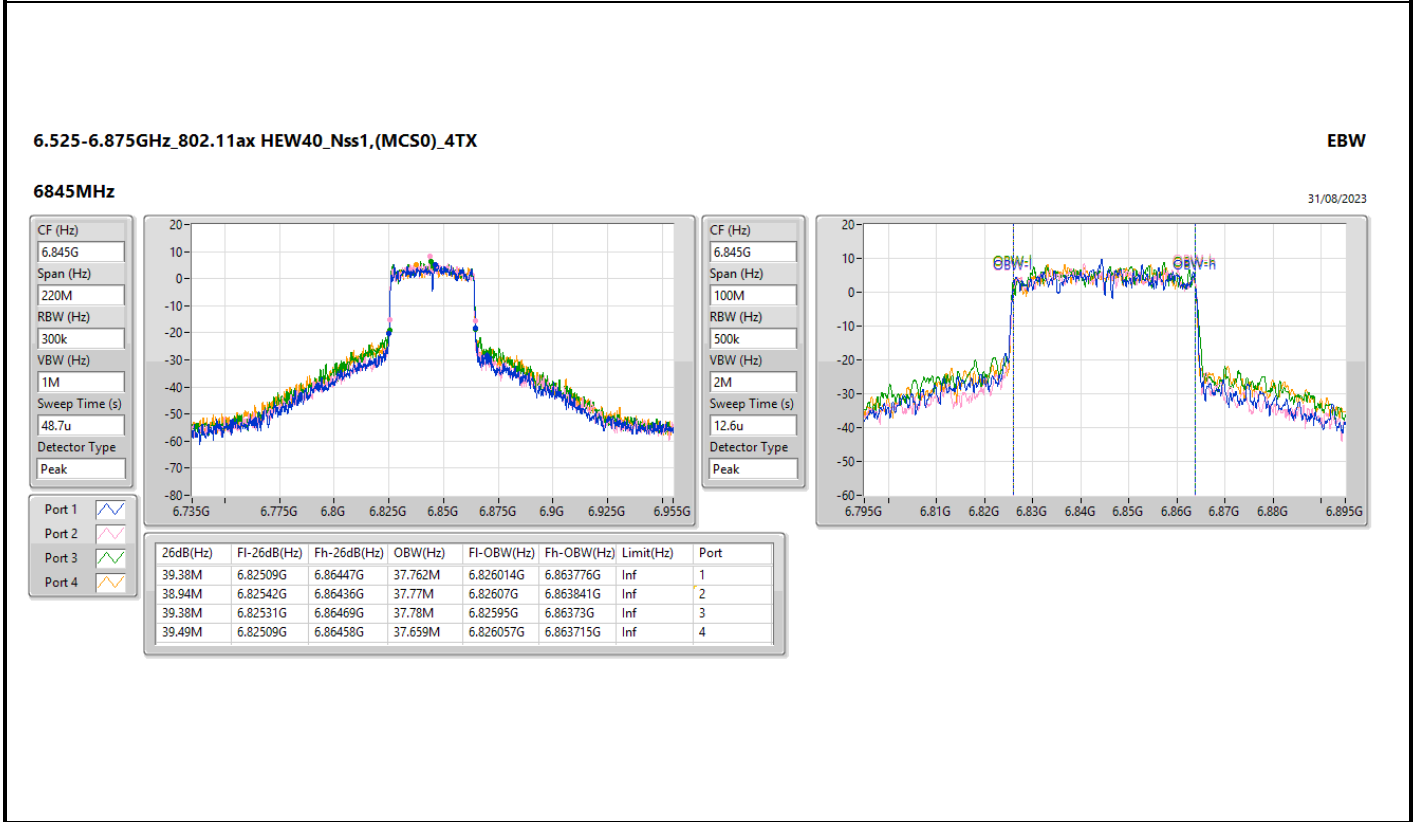
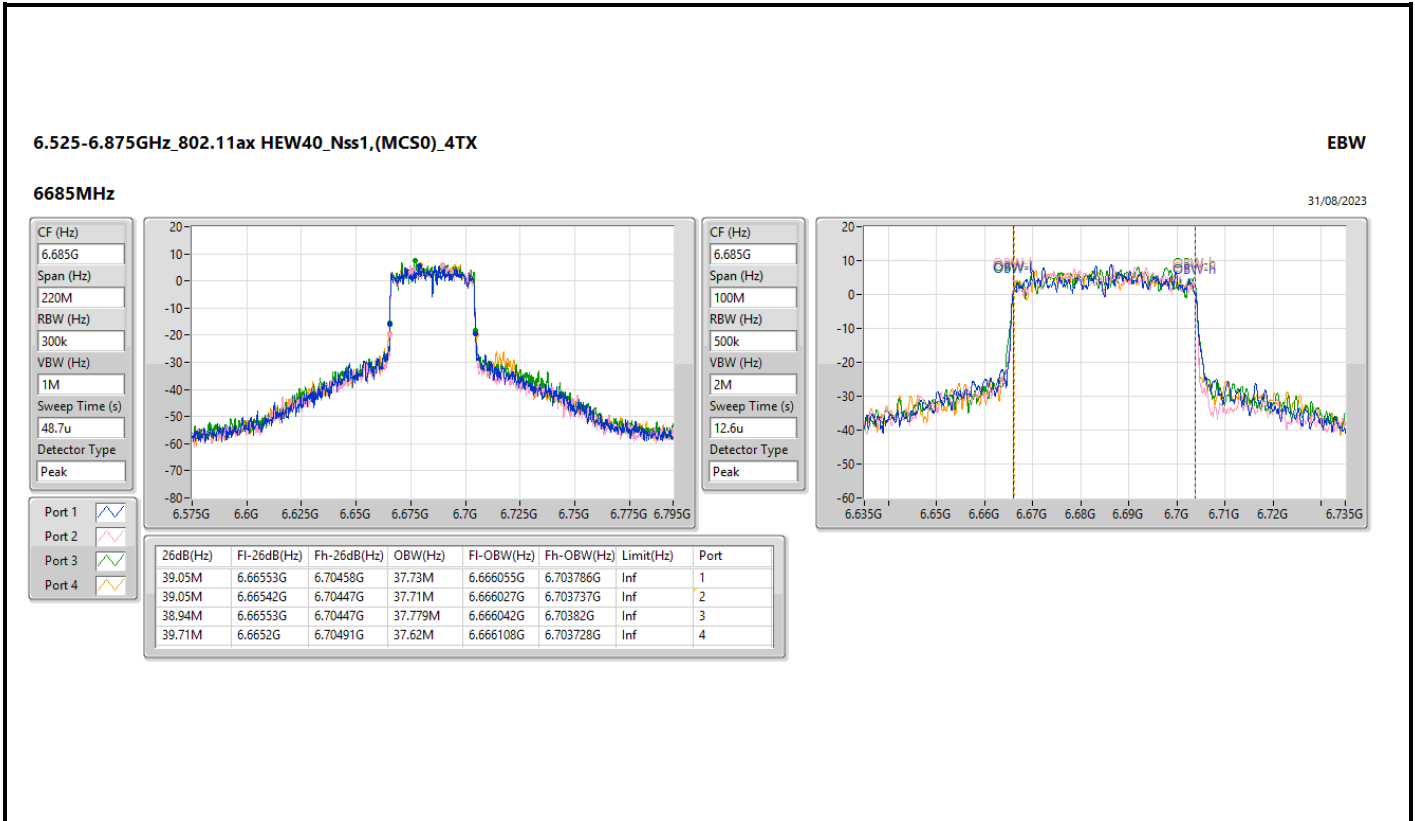
6.525-6.875GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

6565MHz

31/08/2023



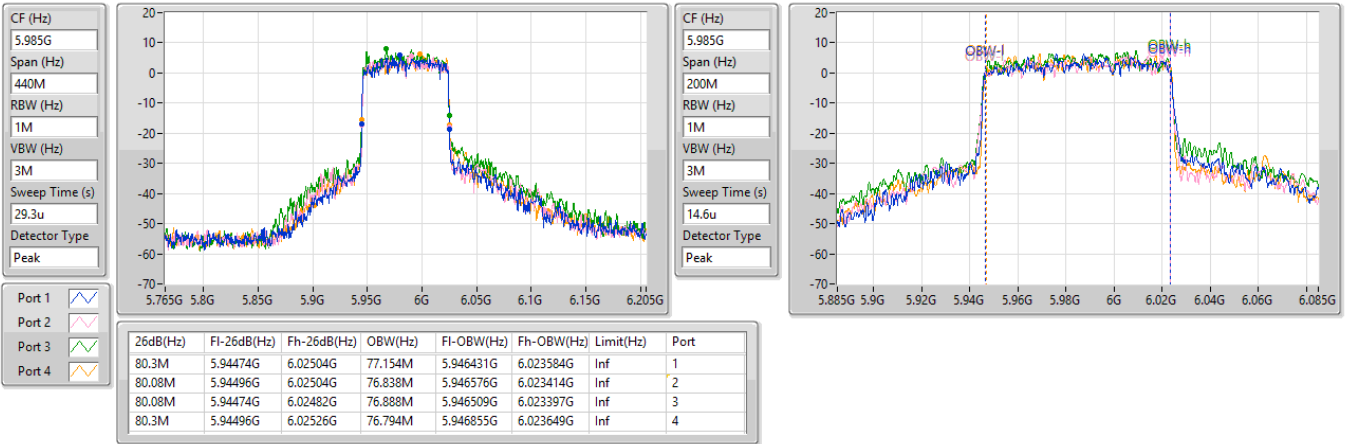


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5985MHz

31/08/2023

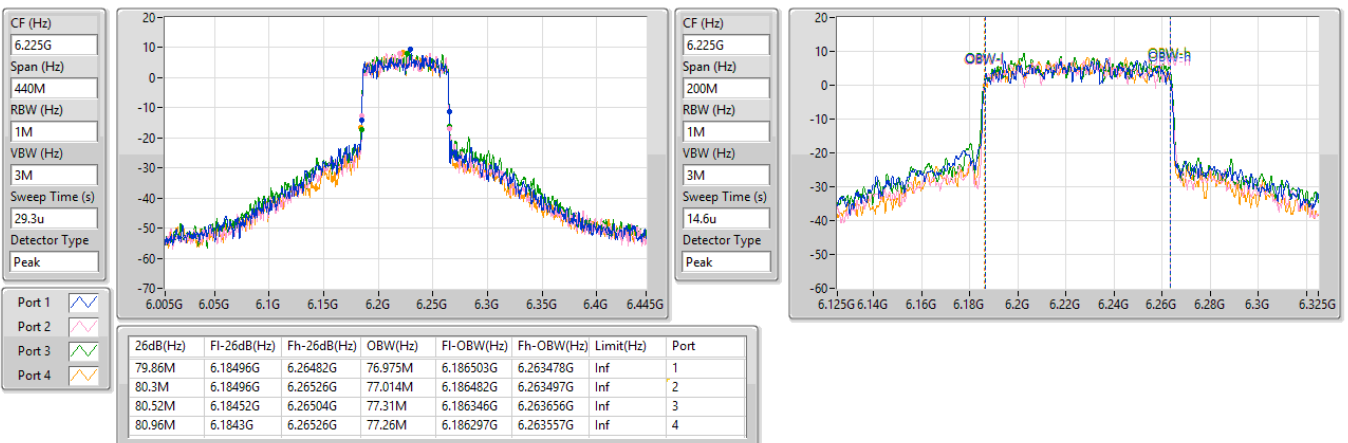


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6225MHz

31/08/2023

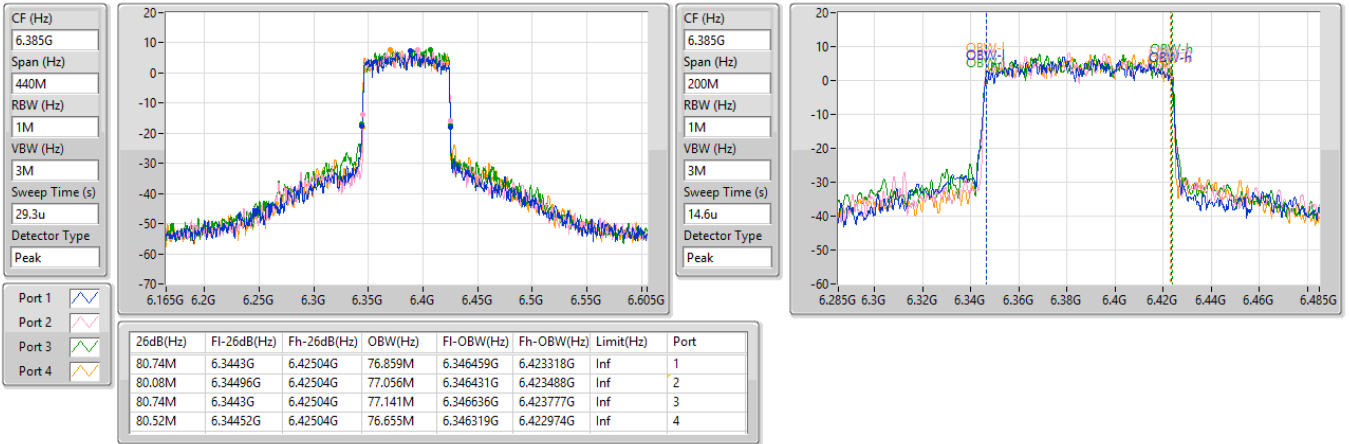


5.925-6.425GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6385MHz

31/08/2023

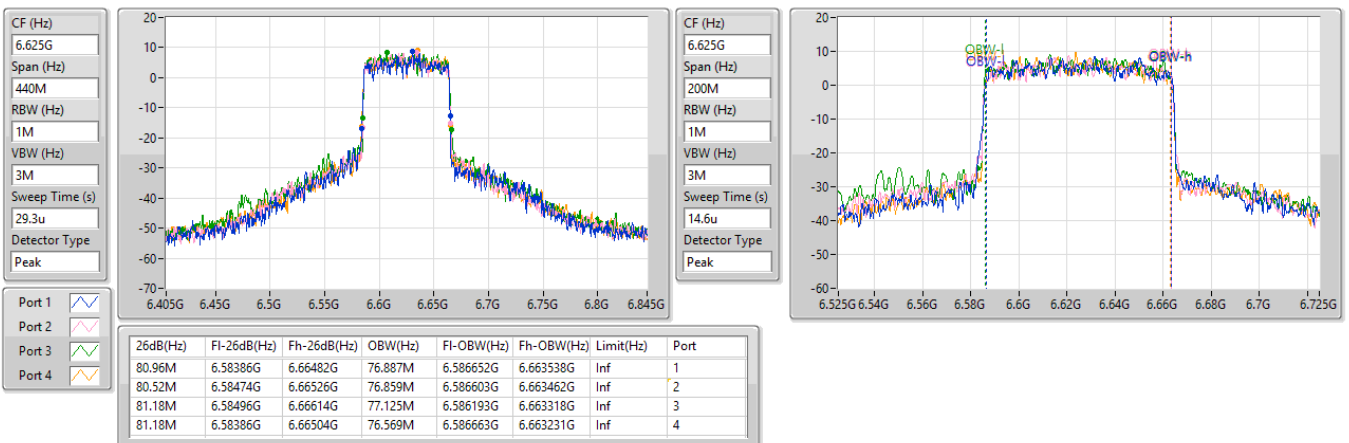


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6625MHz

31/08/2023

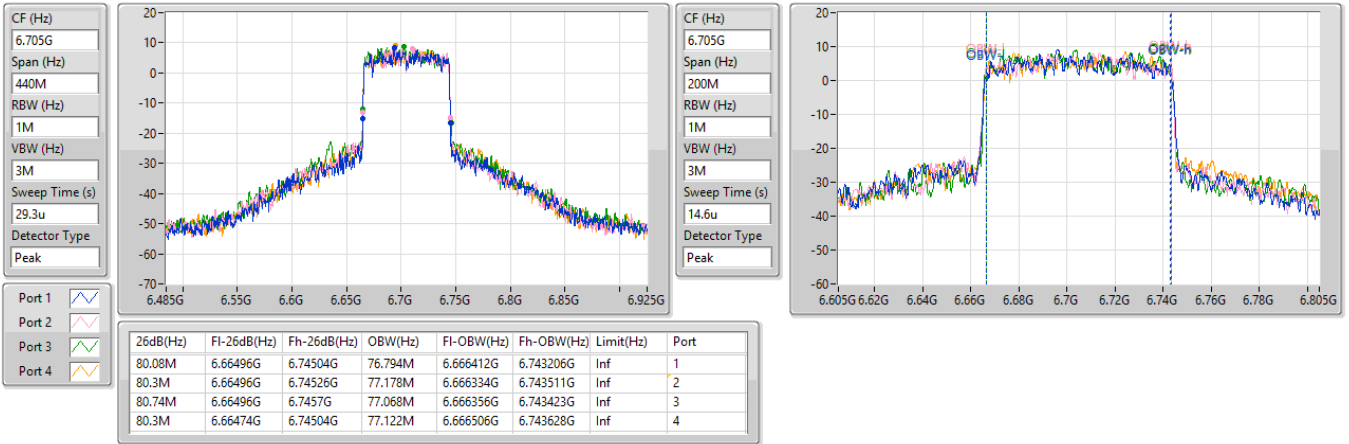


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6705MHz

31/08/2023

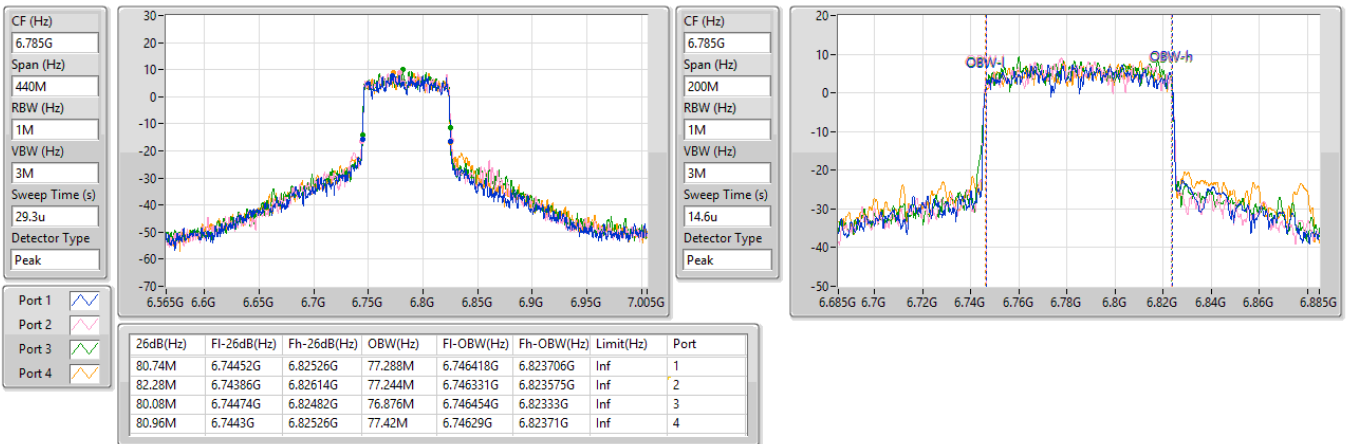


6.525-6.875GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

6785MHz

31/08/2023



5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6025MHz

31/08/2023

CF (Hz)
6.025G

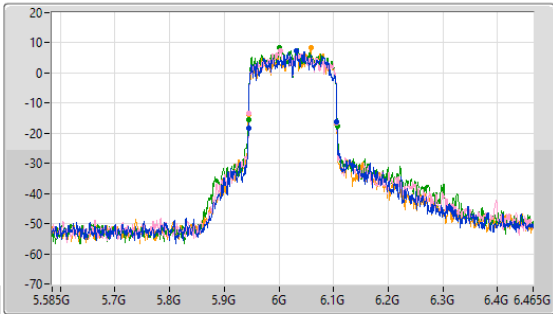
Span (Hz)
880M

RBW (Hz)
2M

VBW (Hz)
10M

Sweep Time (s)
34.6u

Detector Type
Peak



CF (Hz)
6.025G

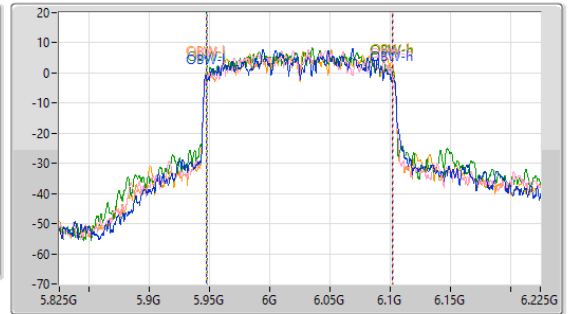
Span (Hz)
400M

RBW (Hz)
2M

VBW (Hz)
10M

Sweep Time (s)
15.8u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|----------|------------|------------|-----------|------|
| 161.92M | 5.94404G | 6.10596G | 154.328M | 5.947615G | 6.101943G | Inf | 1 |
| 161.48M | 5.94448G | 6.10596G | 153.937M | 5.947895G | 6.101832G | Inf | 2 |
| 162.8M | 5.94404G | 6.10684G | 153.874M | 5.948418G | 6.102292G | Inf | 3 |
| 161.92M | 5.94404G | 6.10596G | 155.218M | 5.947431G | 6.102649G | Inf | 4 |

5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6185MHz

31/08/2023

CF (Hz)
6.185G

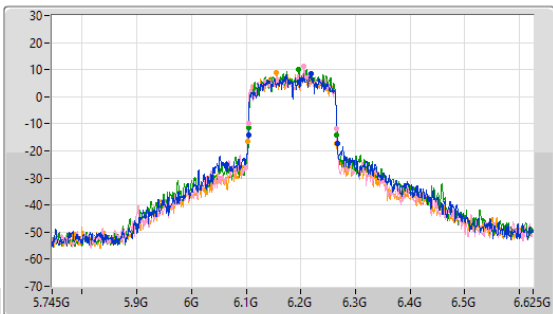
Span (Hz)
880M

RBW (Hz)
2M

VBW (Hz)
10M

Sweep Time (s)
34.6u

Detector Type
Peak



CF (Hz)
6.185G

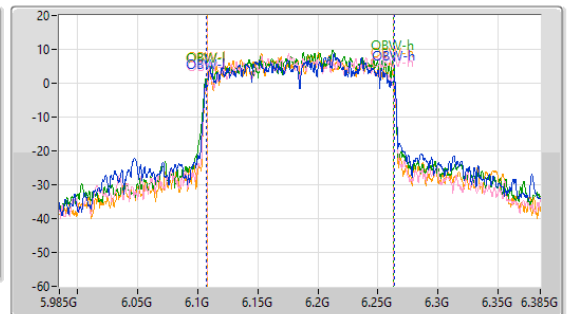
Span (Hz)
400M

RBW (Hz)
2M

VBW (Hz)
10M

Sweep Time (s)
15.8u

Detector Type
Peak



Port 1

Port 2

Port 3

Port 4

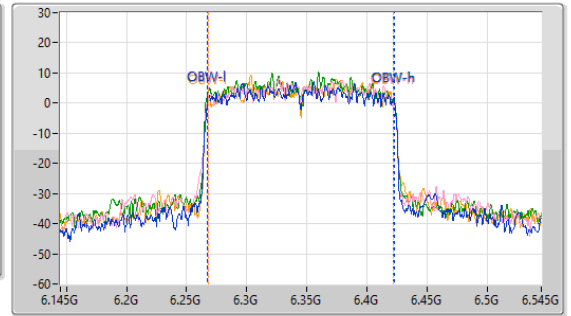
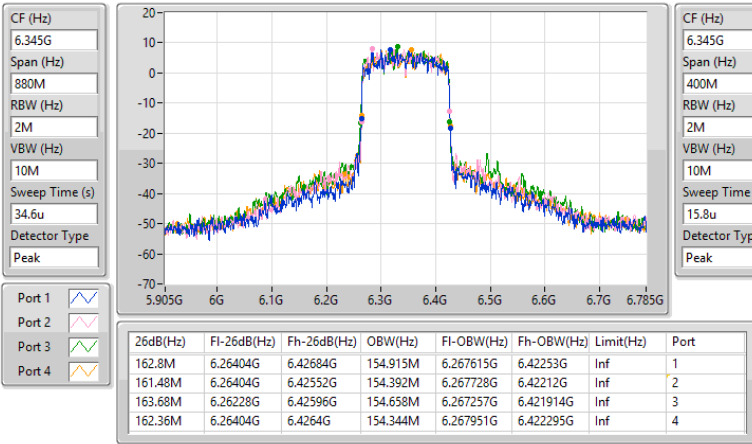
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|----------|------------|------------|-----------|------|
| 163.68M | 6.10404G | 6.26772G | 155.842M | 6.107473G | 6.263315G | Inf | 1 |
| 161.48M | 6.10404G | 6.26552G | 154.034M | 6.108416G | 6.26245G | Inf | 2 |
| 161.48M | 6.10448G | 6.26596G | 155.672M | 6.107424G | 6.263097G | Inf | 3 |
| 162.36M | 6.1036G | 6.26596G | 154.404M | 6.108111G | 6.262515G | Inf | 4 |

5.925-6.425GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6345MHz

31/08/2023

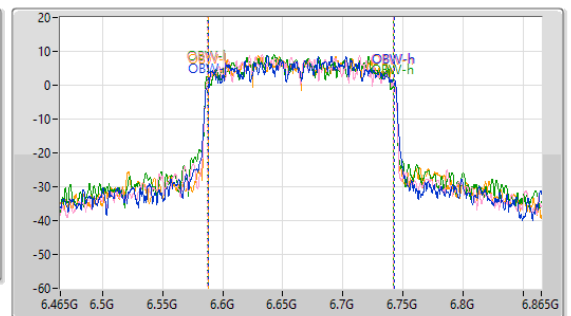
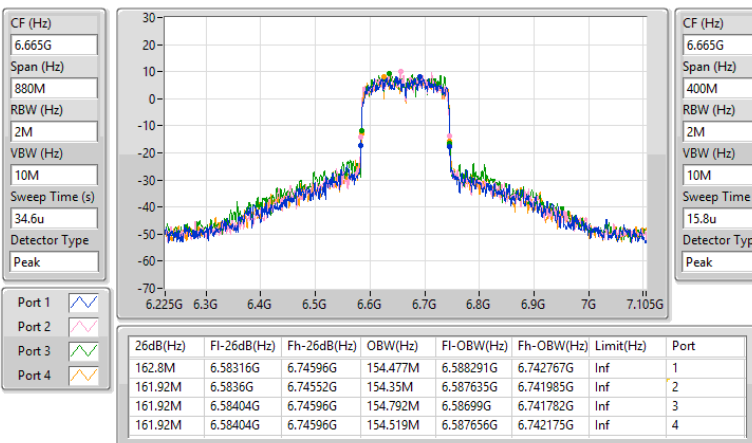


6.525-6.875GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

6665MHz

31/08/2023





Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|--------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.925-6.425GHz | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 22.935M | 19.054M | 19M1D1D | 20.185M | 18.926M |
| 6.525-6.875GHz | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 20.9M | 18.932M | 18M9D1D | 20.46M | 18.819M |

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) |
|--------------------------------|--------|------------|------------------|-----------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - | - | - | - |
| 5955MHz | Pass | Inf | 21.34M | 18.958M |
| 6195MHz | Pass | Inf | 20.185M | 18.926M |
| 6415MHz | Pass | Inf | 22.935M | 19.054M |
| 6535MHz | Pass | Inf | 20.9M | 18.932M |
| 6695MHz | Pass | Inf | 20.46M | 18.819M |
| 6855MHz | Pass | Inf | 20.68M | 18.891M |

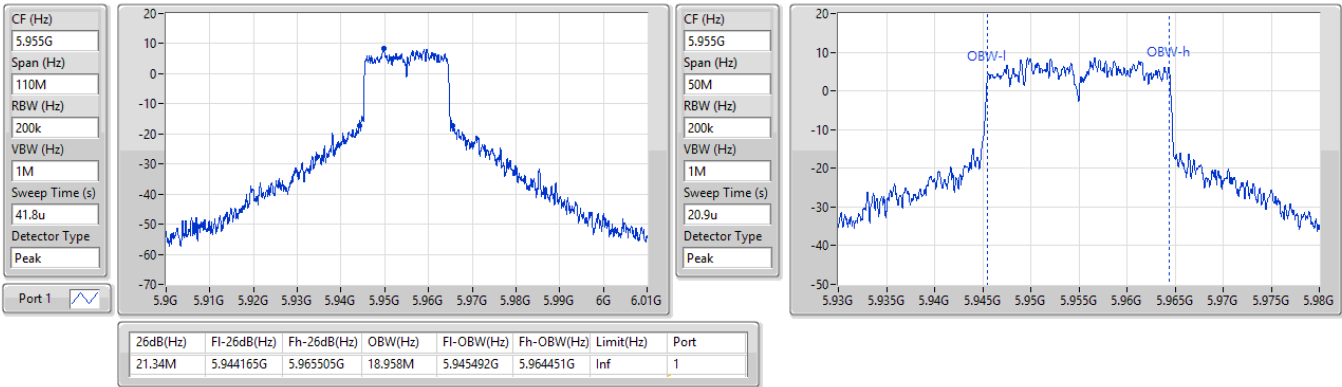
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5955MHz

30/08/2023

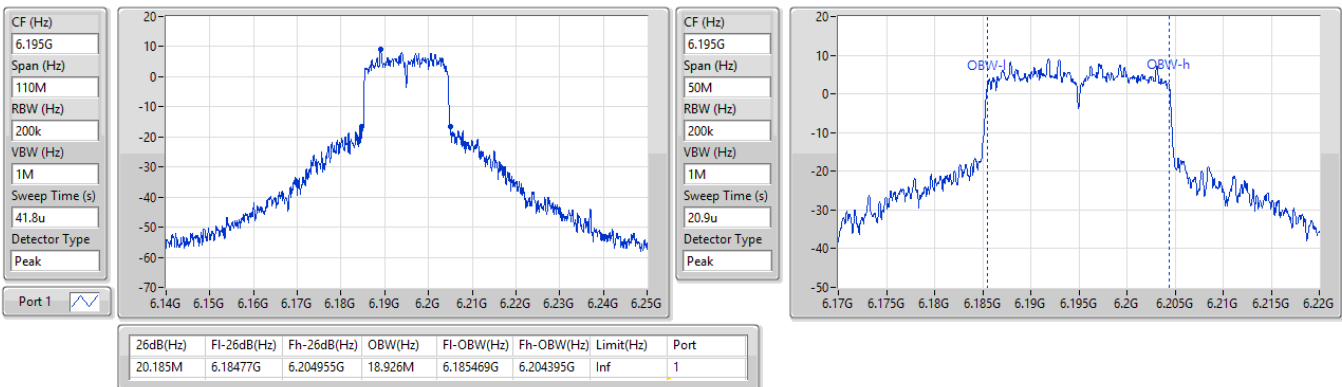


5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6195MHz

30/08/2023



5.925-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6415MHz

30/08/2023

CF (Hz)
6.415G

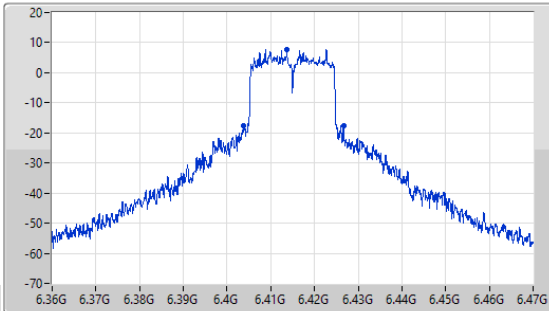
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
6.415G

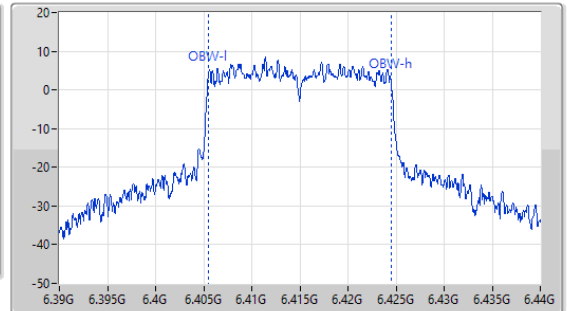
Span (Hz)
50M

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 |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 22.935M | 6.40378G | 6.426715G | 19.054M | 6.405446G | 6.4245G | Inf | 1 |

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6535MHz

30/08/2023

CF (Hz)
6.535G

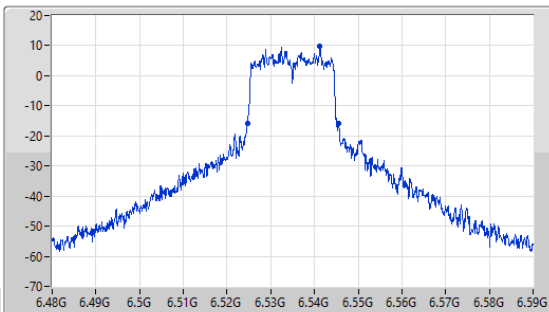
Span (Hz)
110M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
41.8u

Detector Type
Peak



CF (Hz)
6.535G

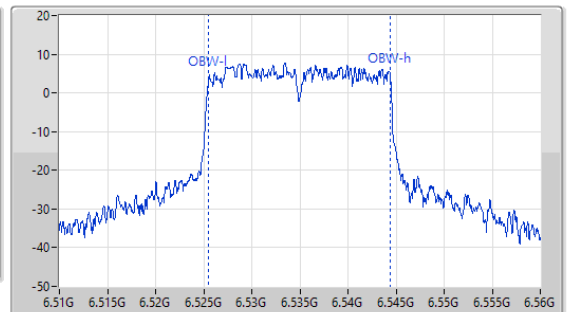
Span (Hz)
50M

RBW (Hz)
200k

VBW (Hz)
1M

Sweep Time (s)
20.9u

Detector Type
Peak



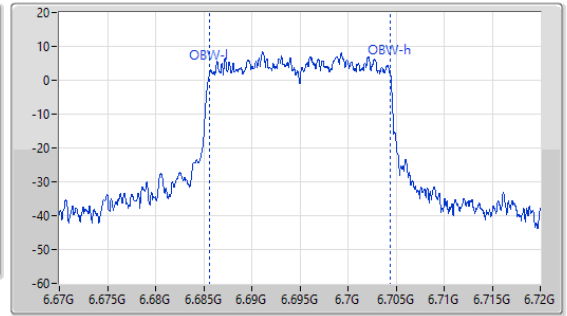
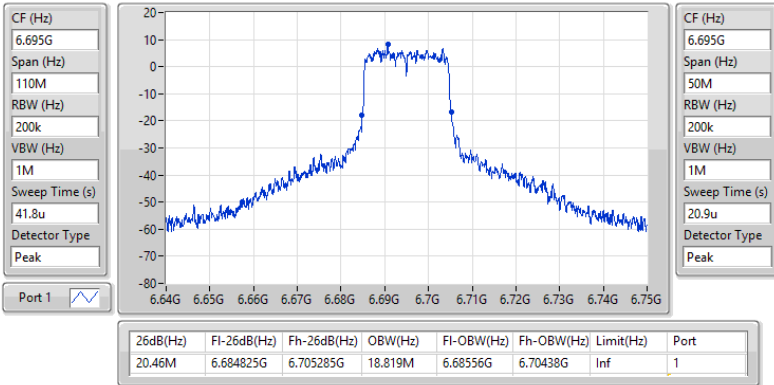
| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 20.9M | 6.52466G | 6.54556G | 18.932M | 6.525476G | 6.544408G | Inf | 1 |

6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6695MHz

30/08/2023

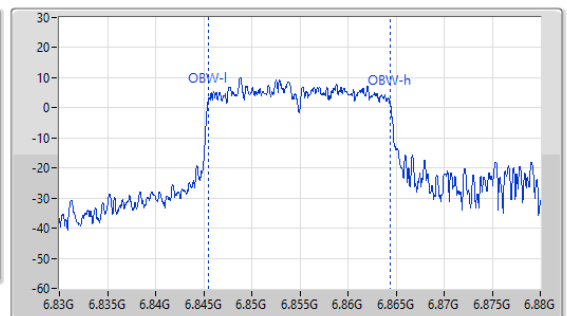
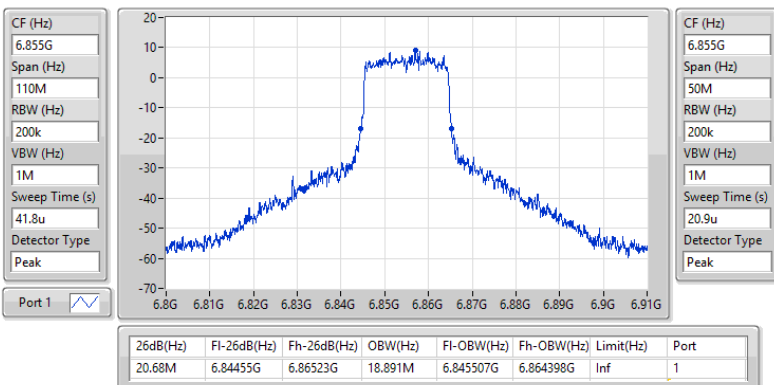


6.525-6.875GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

6855MHz

30/08/2023





Average Power_Radio 2 (1T1S, 2T1S, 4T1S)

Appendix B.1

Summary

| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|------------------------------------|-------------------|-----------------|------------|----------|
| 5.925-6.425GHz | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 17.39 | 0.05483 | 23.39 | 0.21827 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.25 | 0.10593 | 26.74 | 0.47206 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 23.64 | 0.23121 | 30.13 | 1.03039 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 20.25 | 0.10593 | 26.76 | 0.47424 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | 23.64 | 0.23121 | 32.85 | 1.92752 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 17.73 | 0.05929 | 23.73 | 0.23605 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 20.38 | 0.10914 | 26.87 | 0.48641 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 23.73 | 0.23605 | 30.22 | 1.05196 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 20.38 | 0.10914 | 26.89 | 0.48865 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | 23.73 | 0.23605 | 32.94 | 1.96789 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | 17.71 | 0.05902 | 23.71 | 0.23496 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 20.32 | 0.10765 | 26.81 | 0.47973 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 23.63 | 0.23067 | 30.12 | 1.02802 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 20.32 | 0.10765 | 26.83 | 0.48195 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | 23.63 | 0.23067 | 32.84 | 1.92309 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | 18.12 | 0.06486 | 24.12 | 0.25823 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | 20.53 | 0.11298 | 27.02 | 0.50350 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 24.14 | 0.25942 | 30.63 | 1.15611 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_2TX | 20.53 | 0.11298 | 27.04 | 0.50582 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | 24.14 | 0.25942 | 33.35 | 2.16272 |
| 6.525-6.875GHz | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 17.91 | 0.06180 | 25.56 | 0.35975 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 20.74 | 0.11858 | 28.39 | 0.69024 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 23.78 | 0.23878 | 31.43 | 1.38995 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 20.74 | 0.11858 | 28.41 | 0.69343 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | 23.78 | 0.23878 | 34.10 | 2.57040 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 18.10 | 0.06457 | 25.75 | 0.37584 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 20.97 | 0.12503 | 28.62 | 0.72778 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 24.17 | 0.26122 | 31.82 | 1.52055 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 20.97 | 0.12503 | 28.64 | 0.73114 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | 24.17 | 0.26122 | 34.49 | 2.81190 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | 17.84 | 0.06081 | 25.49 | 0.35400 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 20.92 | 0.12359 | 28.57 | 0.71945 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 24.14 | 0.25942 | 31.79 | 1.51008 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 20.92 | 0.12359 | 28.59 | 0.72277 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | 24.14 | 0.25942 | 34.46 | 2.79254 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | 17.95 | 0.06237 | 25.60 | 0.36308 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | 21.00 | 0.12589 | 28.65 | 0.73282 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 24.31 | 0.26977 | 31.96 | 1.57036 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_2TX | 21.00 | 0.12589 | 28.67 | 0.73621 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | 24.31 | 0.26977 | 34.63 | 2.90402 |



Average Power_Radio 2 (1T1S, 2T1S, 4T1S)

Appendix B.1

Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|---------------------------------|--------|----------|--------------|--------------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 802.11ax HEW20_Nss1,(MCSO)_1TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.00 | 17.39 | - | - | - | 17.39 | Inf | 23.39 | 36.00 |
| 6195MHz | Pass | 6.00 | 17.01 | - | - | - | 17.01 | Inf | 23.01 | 36.00 |
| 6415MHz | Pass | 6.00 | 16.73 | - | - | - | 16.73 | Inf | 22.73 | 36.00 |
| 6535MHz | Pass | 7.65 | 16.62 | - | - | - | 16.62 | Inf | 24.27 | 36.00 |
| 6695MHz | Pass | 7.65 | 17.47 | - | - | - | 17.47 | Inf | 25.12 | 36.00 |
| 6855MHz | Pass | 7.65 | 17.91 | - | - | - | 17.91 | Inf | 25.56 | 36.00 |
| 802.11ax HEW40_Nss1,(MCSO)_1TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 6.00 | 17.73 | - | - | - | 17.73 | Inf | 23.73 | 36.00 |
| 6205MHz | Pass | 6.00 | 17.33 | - | - | - | 17.33 | Inf | 23.33 | 36.00 |
| 6405MHz | Pass | 6.00 | 16.82 | - | - | - | 16.82 | Inf | 22.82 | 36.00 |
| 6565MHz | Pass | 7.65 | 17.62 | - | - | - | 17.62 | Inf | 25.27 | 36.00 |
| 6685MHz | Pass | 7.65 | 17.86 | - | - | - | 17.86 | Inf | 25.51 | 36.00 |
| 6845MHz | Pass | 7.65 | 18.1 | - | - | - | 18.10 | Inf | 25.75 | 36.00 |
| 802.11ax HEW80_Nss1,(MCSO)_1TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 6.00 | 17.71 | - | - | - | 17.71 | Inf | 23.71 | 36.00 |
| 6225MHz | Pass | 6.00 | 17.45 | - | - | - | 17.45 | Inf | 23.45 | 36.00 |
| 6385MHz | Pass | 6.00 | 16.8 | - | - | - | 16.80 | Inf | 22.80 | 36.00 |
| 6625MHz | Pass | 7.65 | 17.77 | - | - | - | 17.77 | Inf | 25.42 | 36.00 |
| 6705MHz | Pass | 7.65 | 17.84 | - | - | - | 17.84 | Inf | 25.49 | 36.00 |
| 6785MHz | Pass | 7.65 | 17.84 | - | - | - | 17.84 | Inf | 25.49 | 36.00 |
| 802.11ax HEW160_Nss1,(MCSO)_1TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 6.00 | 17.65 | - | - | - | 17.65 | Inf | 23.65 | 36.00 |
| 6185MHz | Pass | 6.00 | 18.12 | - | - | - | 18.12 | Inf | 24.12 | 36.00 |
| 6345MHz | Pass | 6.00 | 16.71 | - | - | - | 16.71 | Inf | 22.71 | 36.00 |
| 6665MHz | Pass | 7.65 | 17.95 | - | - | - | 17.95 | Inf | 25.60 | 36.00 |
| 802.11ax HEW20_Nss1,(MCSO)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.49 | 17.15 | 17.32 | - | - | 20.25 | Inf | 26.74 | 36.00 |
| 6195MHz | Pass | 6.49 | 16.82 | 16.94 | - | - | 19.89 | Inf | 26.38 | 36.00 |
| 6415MHz | Pass | 6.49 | 16.59 | 16.83 | - | - | 19.72 | Inf | 26.21 | 36.00 |
| 6535MHz | Pass | 7.65 | 16.37 | 17.12 | - | - | 19.77 | Inf | 27.42 | 36.00 |
| 6695MHz | Pass | 7.65 | 17.34 | 17.9 | - | - | 20.64 | Inf | 28.29 | 36.00 |
| 6855MHz | Pass | 7.65 | 17.7 | 17.75 | - | - | 20.74 | Inf | 28.39 | 36.00 |
| 802.11ax HEW40_Nss1,(MCSO)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 6.49 | 17.18 | 17.55 | - | - | 20.38 | Inf | 26.87 | 36.00 |
| 6205MHz | Pass | 6.49 | 17.22 | 17.2 | - | - | 20.22 | Inf | 26.71 | 36.00 |
| 6405MHz | Pass | 6.49 | 16.77 | 17.19 | - | - | 20.00 | Inf | 26.49 | 36.00 |
| 6565MHz | Pass | 7.65 | 17.43 | 18.41 | - | - | 20.96 | Inf | 28.61 | 36.00 |
| 6685MHz | Pass | 7.65 | 17.6 | 18.14 | - | - | 20.89 | Inf | 28.54 | 36.00 |
| 6845MHz | Pass | 7.65 | 17.89 | 18.02 | - | - | 20.97 | Inf | 28.62 | 36.00 |
| 802.11ax HEW80_Nss1,(MCSO)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 6.49 | 16.91 | 17.34 | - | - | 20.14 | Inf | 26.63 | 36.00 |
| 6225MHz | Pass | 6.49 | 17.25 | 17.36 | - | - | 20.32 | Inf | 26.81 | 36.00 |
| 6385MHz | Pass | 6.49 | 16.65 | 17.24 | - | - | 19.97 | Inf | 26.46 | 36.00 |
| 6625MHz | Pass | 7.65 | 17.51 | 18.25 | - | - | 20.91 | Inf | 28.56 | 36.00 |
| 6705MHz | Pass | 7.65 | 17.6 | 18.17 | - | - | 20.90 | Inf | 28.55 | 36.00 |
| 6785MHz | Pass | 7.65 | 17.63 | 18.18 | - | - | 20.92 | Inf | 28.57 | 36.00 |
| 802.11ax HEW160_Nss1,(MCSO)_2TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 6.49 | 17.44 | 17.59 | - | - | 20.53 | Inf | 27.02 | 36.00 |
| 6185MHz | Pass | 6.49 | 17.66 | 17.31 | - | - | 20.50 | Inf | 26.99 | 36.00 |
| 6345MHz | Pass | 6.49 | 16.64 | 16.91 | - | - | 19.79 | Inf | 26.28 | 36.00 |
| 6665MHz | Pass | 7.65 | 17.88 | 18.09 | - | - | 21.00 | Inf | 28.65 | 36.00 |
| 802.11ax HEW20_Nss1,(MCSO)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.49 | 17.13 | 17.45 | 18.26 | 17.55 | 23.64 | Inf | 30.13 | 36.00 |
| 6195MHz | Pass | 6.49 | 16.81 | 17.02 | 17.95 | 17.16 | 23.28 | Inf | 29.77 | 36.00 |



Average Power_Radio 2 (1T1S, 2T1S, 4T1S)

Appendix B.1

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|------------------------------------|--------|----------|--------------|--------------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 6415MHz | Pass | 6.49 | 16.27 | 16.81 | 17.44 | 16.86 | 22.89 | Inf | 29.38 | 36.00 |
| 6535MHz | Pass | 7.65 | 16.34 | 17.05 | 17.37 | 16.84 | 22.94 | Inf | 30.59 | 36.00 |
| 6695MHz | Pass | 7.65 | 17.3 | 17.75 | 18.15 | 17.73 | 23.76 | Inf | 31.41 | 36.00 |
| 6855MHz | Pass | 7.65 | 17.62 | 17.73 | 18.04 | 17.62 | 23.78 | Inf | 31.43 | 36.00 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 6.49 | 15.5 | 15.92 | 17.28 | 16.17 | 22.29 | Inf | 28.78 | 36.00 |
| 6205MHz | Pass | 6.49 | 17.47 | 17.46 | 18.32 | 17.52 | 23.73 | Inf | 30.22 | 36.00 |
| 6405MHz | Pass | 6.49 | 16.69 | 17.03 | 17.9 | 17.49 | 23.32 | Inf | 29.81 | 36.00 |
| 6565MHz | Pass | 7.65 | 17.42 | 18.13 | 18.37 | 18.25 | 24.08 | Inf | 31.73 | 36.00 |
| 6685MHz | Pass | 7.65 | 17.78 | 18.18 | 18.43 | 18.18 | 24.17 | Inf | 31.82 | 36.00 |
| 6845MHz | Pass | 7.65 | 17.94 | 17.91 | 18.36 | 18.08 | 24.10 | Inf | 31.75 | 36.00 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 6.49 | 15.5 | 15.68 | 16.94 | 15.48 | 21.96 | Inf | 28.45 | 36.00 |
| 6225MHz | Pass | 6.49 | 17.29 | 17.29 | 18.26 | 17.51 | 23.63 | Inf | 30.12 | 36.00 |
| 6385MHz | Pass | 6.49 | 16.65 | 17.12 | 17.8 | 17.22 | 23.24 | Inf | 29.73 | 36.00 |
| 6625MHz | Pass | 7.65 | 17.55 | 18.17 | 18.4 | 18.15 | 24.10 | Inf | 31.75 | 36.00 |
| 6705MHz | Pass | 7.65 | 17.72 | 18.06 | 18.36 | 18.12 | 24.09 | Inf | 31.74 | 36.00 |
| 6785MHz | Pass | 7.65 | 17.79 | 18.18 | 18.34 | 18.15 | 24.14 | Inf | 31.79 | 36.00 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 6.49 | 16.33 | 16.49 | 17.2 | 16.32 | 22.62 | Inf | 29.11 | 36.00 |
| 6185MHz | Pass | 6.49 | 18.11 | 17.89 | 18.42 | 18.02 | 24.14 | Inf | 30.63 | 36.00 |
| 6345MHz | Pass | 6.49 | 16.58 | 17.16 | 17.79 | 17.32 | 23.25 | Inf | 29.74 | 36.00 |
| 6665MHz | Pass | 7.65 | 18.12 | 18.28 | 18.46 | 18.31 | 24.31 | Inf | 31.96 | 36.00 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.51 | 17.15 | 17.32 | - | - | 20.25 | Inf | 26.76 | 36.00 |
| 6195MHz | Pass | 6.51 | 16.82 | 16.94 | - | - | 19.89 | Inf | 26.40 | 36.00 |
| 6415MHz | Pass | 6.51 | 16.59 | 16.83 | - | - | 19.72 | Inf | 26.23 | 36.00 |
| 6535MHz | Pass | 7.67 | 16.37 | 17.12 | - | - | 19.77 | Inf | 27.44 | 36.00 |
| 6695MHz | Pass | 7.67 | 17.34 | 17.9 | - | - | 20.64 | Inf | 28.31 | 36.00 |
| 6855MHz | Pass | 7.67 | 17.7 | 17.75 | - | - | 20.74 | Inf | 28.41 | 36.00 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 6.51 | 17.18 | 17.55 | - | - | 20.38 | Inf | 26.89 | 36.00 |
| 6205MHz | Pass | 6.51 | 17.22 | 17.2 | - | - | 20.22 | Inf | 26.73 | 36.00 |
| 6405MHz | Pass | 6.51 | 16.77 | 17.19 | - | - | 20.00 | Inf | 26.51 | 36.00 |
| 6565MHz | Pass | 7.67 | 17.43 | 18.41 | - | - | 20.96 | Inf | 28.63 | 36.00 |
| 6685MHz | Pass | 7.67 | 17.6 | 18.14 | - | - | 20.89 | Inf | 28.56 | 36.00 |
| 6845MHz | Pass | 7.67 | 17.89 | 18.02 | - | - | 20.97 | Inf | 28.64 | 36.00 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 6.51 | 16.91 | 17.34 | - | - | 20.14 | Inf | 26.65 | 36.00 |
| 6225MHz | Pass | 6.51 | 17.25 | 17.36 | - | - | 20.32 | Inf | 26.83 | 36.00 |
| 6385MHz | Pass | 6.51 | 16.65 | 17.24 | - | - | 19.97 | Inf | 26.48 | 36.00 |
| 6625MHz | Pass | 7.67 | 17.51 | 18.25 | - | - | 20.91 | Inf | 28.58 | 36.00 |
| 6705MHz | Pass | 7.67 | 17.6 | 18.17 | - | - | 20.90 | Inf | 28.57 | 36.00 |
| 6785MHz | Pass | 7.67 | 17.63 | 18.18 | - | - | 20.92 | Inf | 28.59 | 36.00 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 6.51 | 17.44 | 17.59 | - | - | 20.53 | Inf | 27.04 | 36.00 |
| 6185MHz | Pass | 6.51 | 17.66 | 17.31 | - | - | 20.50 | Inf | 27.01 | 36.00 |
| 6345MHz | Pass | 6.51 | 16.64 | 16.91 | - | - | 19.79 | Inf | 26.30 | 36.00 |
| 6665MHz | Pass | 7.67 | 17.88 | 18.09 | - | - | 21.00 | Inf | 28.67 | 36.00 |
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 9.21 | 17.13 | 17.45 | 18.26 | 17.55 | 23.64 | Inf | 32.85 | 36.00 |
| 6195MHz | Pass | 9.21 | 16.81 | 17.02 | 17.95 | 17.16 | 23.28 | Inf | 32.49 | 36.00 |
| 6415MHz | Pass | 9.21 | 16.27 | 16.81 | 17.44 | 16.86 | 22.89 | Inf | 32.10 | 36.00 |
| 6535MHz | Pass | 10.32 | 16.34 | 17.05 | 17.37 | 16.84 | 22.94 | Inf | 33.26 | 36.00 |
| 6695MHz | Pass | 10.32 | 17.3 | 17.75 | 18.15 | 17.73 | 23.76 | Inf | 34.08 | 36.00 |
| 6855MHz | Pass | 10.32 | 17.62 | 17.73 | 18.04 | 17.62 | 23.78 | Inf | 34.10 | 36.00 |



Average Power_Radio 2 (1T1S, 2T1S, 4T1S)

Appendix B.1

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|------------------------------------|--------|----------|--------------|--------------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 9.21 | 15.5 | 15.92 | 17.28 | 16.17 | 22.29 | Inf | 31.50 | 36.00 |
| 6205MHz | Pass | 9.21 | 17.47 | 17.46 | 18.32 | 17.52 | 23.73 | Inf | 32.94 | 36.00 |
| 6405MHz | Pass | 9.21 | 16.69 | 17.03 | 17.9 | 17.49 | 23.32 | Inf | 32.53 | 36.00 |
| 6565MHz | Pass | 10.32 | 17.42 | 18.13 | 18.37 | 18.25 | 24.08 | Inf | 34.40 | 36.00 |
| 6685MHz | Pass | 10.32 | 17.78 | 18.18 | 18.43 | 18.18 | 24.17 | Inf | 34.49 | 36.00 |
| 6845MHz | Pass | 10.32 | 17.94 | 17.91 | 18.36 | 18.08 | 24.10 | Inf | 34.42 | 36.00 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 9.21 | 15.5 | 15.68 | 16.94 | 15.48 | 21.96 | Inf | 31.17 | 36.00 |
| 6225MHz | Pass | 9.21 | 17.29 | 17.29 | 18.26 | 17.51 | 23.63 | Inf | 32.84 | 36.00 |
| 6385MHz | Pass | 9.21 | 16.65 | 17.12 | 17.8 | 17.22 | 23.24 | Inf | 32.45 | 36.00 |
| 6625MHz | Pass | 10.32 | 17.55 | 18.17 | 18.4 | 18.15 | 24.10 | Inf | 34.42 | 36.00 |
| 6705MHz | Pass | 10.32 | 17.72 | 18.06 | 18.36 | 18.12 | 24.09 | Inf | 34.41 | 36.00 |
| 6785MHz | Pass | 10.32 | 17.79 | 18.18 | 18.34 | 18.15 | 24.14 | Inf | 34.46 | 36.00 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 9.21 | 16.33 | 16.49 | 17.2 | 16.32 | 22.62 | Inf | 31.83 | 36.00 |
| 6185MHz | Pass | 9.21 | 18.11 | 17.89 | 18.42 | 18.02 | 24.14 | Inf | 33.35 | 36.00 |
| 6345MHz | Pass | 9.21 | 16.58 | 17.16 | 17.79 | 17.32 | 23.25 | Inf | 32.46 | 36.00 |
| 6665MHz | Pass | 10.32 | 18.12 | 18.28 | 18.46 | 18.31 | 24.31 | Inf | 34.63 | 36.00 |

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



Summary

| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|--------------------------------|-------------------|-----------------|------------|----------|
| 5.925-6.425GHz | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 20.28 | 0.10666 | 27.08 | 0.51050 |
| 6.525-6.875GHz | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 20.00 | 0.10000 | 26.80 | 0.47863 |



Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|--------------------------------|--------|----------|--------------|-------------------|-------------------|------------|------------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.80 | 20.28 | 20.28 | Inf | 27.08 | 36.00 |
| 6195MHz | Pass | 6.80 | 19.71 | 19.71 | Inf | 26.51 | 36.00 |
| 6415MHz | Pass | 6.80 | 18.97 | 18.97 | Inf | 25.77 | 36.00 |
| 6535MHz | Pass | 6.80 | 19.57 | 19.57 | Inf | 26.37 | 36.00 |
| 6695MHz | Pass | 6.80 | 19.09 | 19.09 | Inf | 25.89 | 36.00 |
| 6855MHz | Pass | 6.80 | 20.00 | 20.00 | Inf | 26.80 | 36.00 |

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



Summary

| Mode | PD (dBm/RBW) | EIRP PD (dBm/RBW) |
|---------------------------------|-----------------|----------------------|
| 5.925-6.425GHz | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 4.37 | 10.37 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 6.99 | 13.50 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 10.47 | 19.68 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 1.69 | 7.69 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 4.23 | 10.74 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 7.90 | 17.11 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | -1.32 | 4.68 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 1.11 | 7.62 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 4.81 | 14.02 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | -3.57 | 2.43 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | -0.97 | 5.54 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 2.56 | 11.77 |
| 6.525-6.875GHz | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 4.97 | 12.62 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 7.24 | 14.91 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 10.69 | 21.01 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | 2.17 | 9.82 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 4.77 | 12.44 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 8.25 | 18.57 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | -1.06 | 6.59 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 1.74 | 9.41 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 5.27 | 15.59 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | -3.82 | 3.83 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | -1.09 | 6.58 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 2.57 | 12.89 |

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) | EIRP PD (dBm/RBW) | EIRP PD Limit (dBm/RBW) |
|---------------------------------|--------|-------------|---------------------|---------------------|---------------------|---------------------|-----------------|----------------------|----------------------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.00 | 4.37 | - | - | - | 4.37 | 10.37 | 23.00 |
| 6195MHz | Pass | 6.00 | 4.02 | - | - | - | 4.02 | 10.02 | 23.00 |
| 6415MHz | Pass | 6.00 | 3.83 | - | - | - | 3.83 | 9.83 | 23.00 |
| 6535MHz | Pass | 7.65 | 3.67 | - | - | - | 3.67 | 11.32 | 23.00 |
| 6695MHz | Pass | 7.65 | 4.49 | - | - | - | 4.49 | 12.14 | 23.00 |
| 6855MHz | Pass | 7.65 | 4.97 | - | - | - | 4.97 | 12.62 | 23.00 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 6.00 | 1.69 | - | - | - | 1.69 | 7.69 | 23.00 |
| 6205MHz | Pass | 6.00 | 1.41 | - | - | - | 1.41 | 7.41 | 23.00 |
| 6405MHz | Pass | 6.00 | 0.97 | - | - | - | 0.97 | 6.97 | 23.00 |
| 6565MHz | Pass | 7.65 | 1.54 | - | - | - | 1.54 | 9.19 | 23.00 |
| 6685MHz | Pass | 7.65 | 1.89 | - | - | - | 1.89 | 9.54 | 23.00 |
| 6845MHz | Pass | 7.65 | 2.17 | - | - | - | 2.17 | 9.82 | 23.00 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 6.00 | -1.32 | - | - | - | -1.32 | 4.68 | 23.00 |
| 6225MHz | Pass | 6.00 | -1.53 | - | - | - | -1.53 | 4.47 | 23.00 |
| 6385MHz | Pass | 6.00 | -2.15 | - | - | - | -2.15 | 3.85 | 23.00 |
| 6625MHz | Pass | 7.65 | -1.09 | - | - | - | -1.09 | 6.56 | 23.00 |
| 6705MHz | Pass | 7.65 | -1.06 | - | - | - | -1.06 | 6.59 | 23.00 |
| 6785MHz | Pass | 7.65 | -1.20 | - | - | - | -1.20 | 6.45 | 23.00 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 6.00 | -3.71 | - | - | - | -3.71 | 2.29 | 23.00 |
| 6185MHz | Pass | 6.00 | -3.57 | - | - | - | -3.57 | 2.43 | 23.00 |
| 6345MHz | Pass | 6.00 | -5.10 | - | - | - | -5.10 | 0.90 | 23.00 |
| 6665MHz | Pass | 7.65 | -3.82 | - | - | - | -3.82 | 3.83 | 23.00 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.51 | 3.84 | 4.22 | - | - | 6.99 | 13.50 | 23.00 |
| 6195MHz | Pass | 6.51 | 3.56 | 3.97 | - | - | 6.68 | 13.19 | 23.00 |
| 6415MHz | Pass | 6.51 | 3.28 | 3.62 | - | - | 6.41 | 12.92 | 23.00 |
| 6535MHz | Pass | 7.67 | 3.05 | 3.85 | - | - | 6.42 | 14.09 | 23.00 |
| 6695MHz | Pass | 7.67 | 3.80 | 4.46 | - | - | 7.10 | 14.77 | 23.00 |
| 6855MHz | Pass | 7.67 | 4.35 | 4.37 | - | - | 7.24 | 14.91 | 23.00 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 6.51 | 1.14 | 1.38 | - | - | 4.23 | 10.74 | 23.00 |
| 6205MHz | Pass | 6.51 | 1.17 | 1.15 | - | - | 4.10 | 10.61 | 23.00 |
| 6405MHz | Pass | 6.51 | 0.61 | 1.05 | - | - | 3.84 | 10.35 | 23.00 |
| 6565MHz | Pass | 7.67 | 1.07 | 2.06 | - | - | 4.55 | 12.22 | 23.00 |
| 6685MHz | Pass | 7.67 | 1.49 | 1.98 | - | - | 4.64 | 12.31 | 23.00 |
| 6845MHz | Pass | 7.67 | 1.80 | 1.74 | - | - | 4.77 | 12.44 | 23.00 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 6.51 | -2.11 | -1.72 | - | - | 1.01 | 7.52 | 23.00 |
| 6225MHz | Pass | 6.51 | -1.87 | -1.63 | - | - | 1.11 | 7.62 | 23.00 |
| 6385MHz | Pass | 6.51 | -2.44 | -1.78 | - | - | 0.80 | 7.31 | 23.00 |
| 6625MHz | Pass | 7.67 | -1.46 | -0.73 | - | - | 1.74 | 9.41 | 23.00 |
| 6705MHz | Pass | 7.67 | -1.50 | -1.09 | - | - | 1.68 | 9.35 | 23.00 |
| 6785MHz | Pass | 7.67 | -1.72 | -1.19 | - | - | 1.49 | 9.16 | 23.00 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 6.51 | -3.87 | -3.97 | - | - | -1.01 | 5.50 | 23.00 |
| 6185MHz | Pass | 6.51 | -3.97 | -3.93 | - | - | -0.97 | 5.54 | 23.00 |
| 6345MHz | Pass | 6.51 | -5.42 | -5.03 | - | - | -2.29 | 4.22 | 23.00 |
| 6665MHz | Pass | 7.67 | -4.15 | -3.85 | - | - | -1.09 | 6.58 | 23.00 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 9.21 | 4.09 | 4.32 | 5.25 | 4.50 | 10.47 | 19.68 | 23.00 |

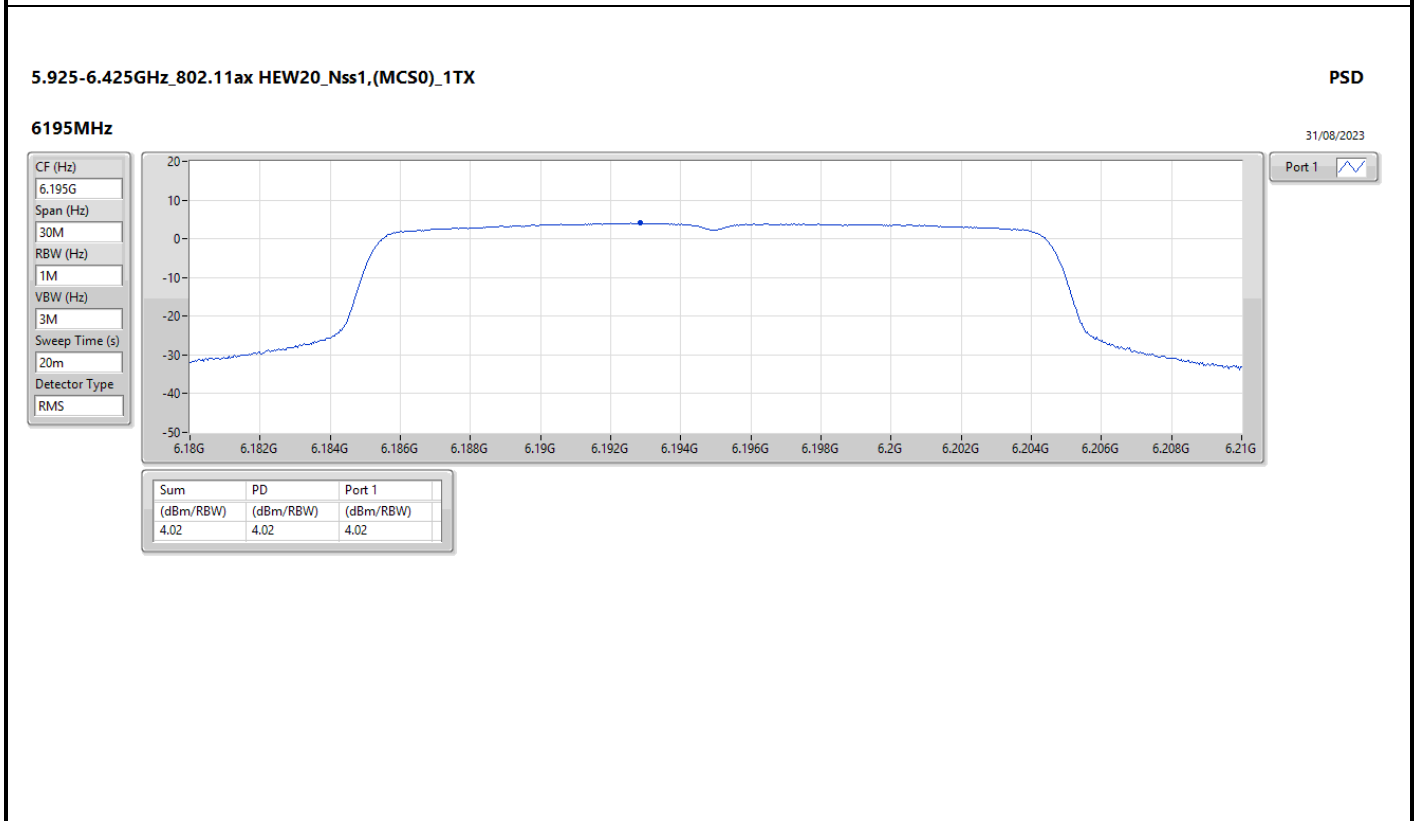
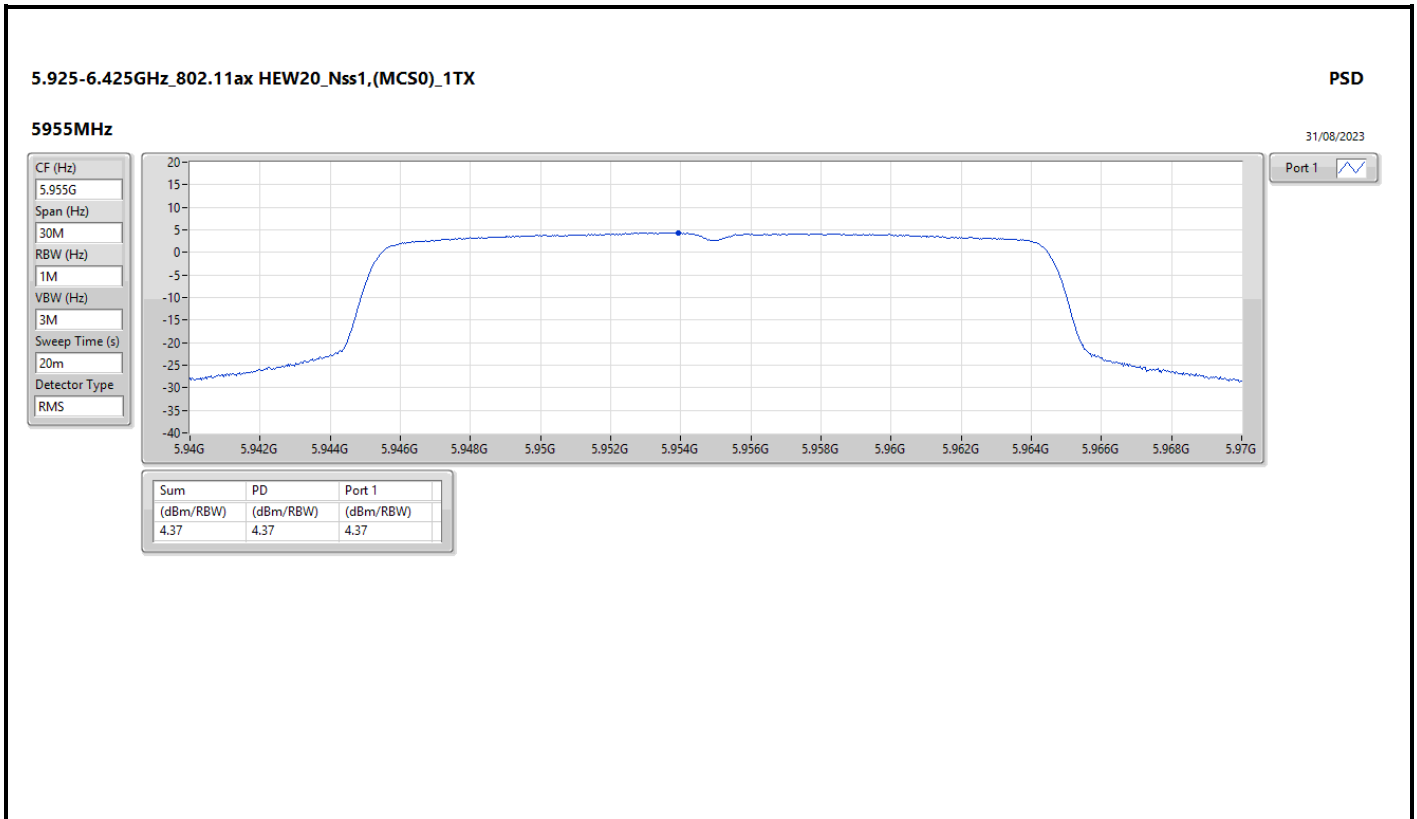


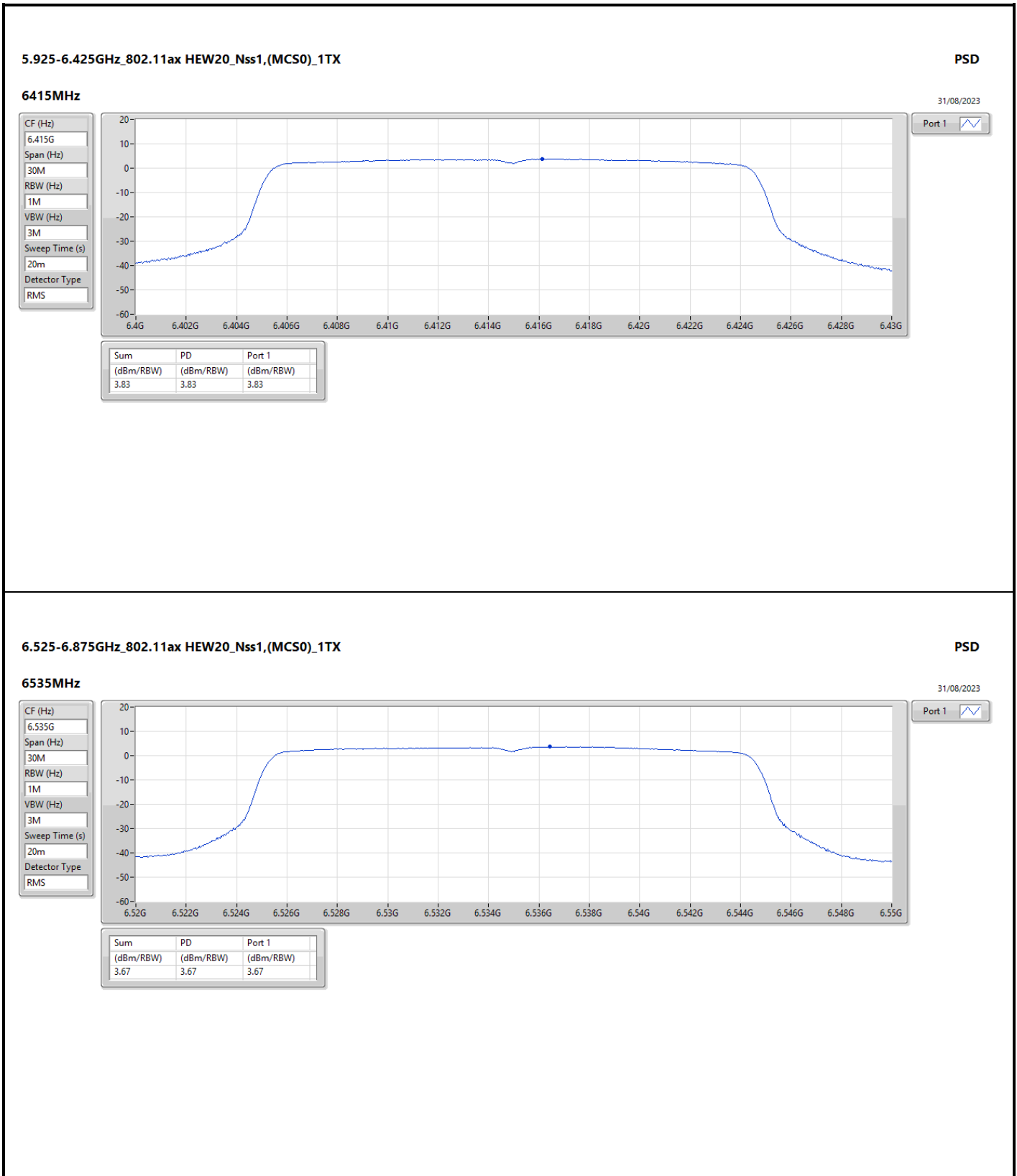
PSD_Radio 2 (1T1S, 2T1S, 4T1S)

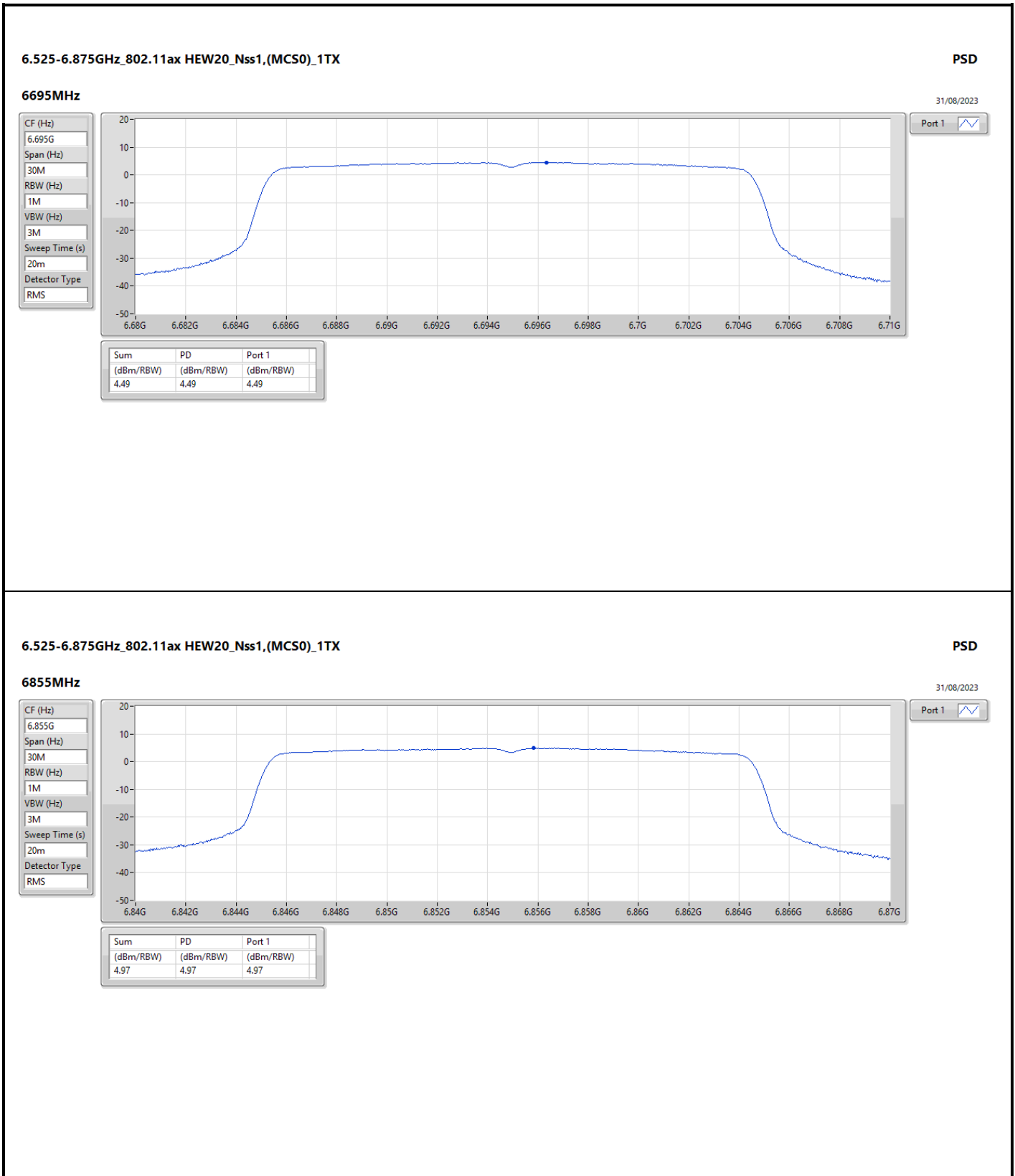
Appendix C.1

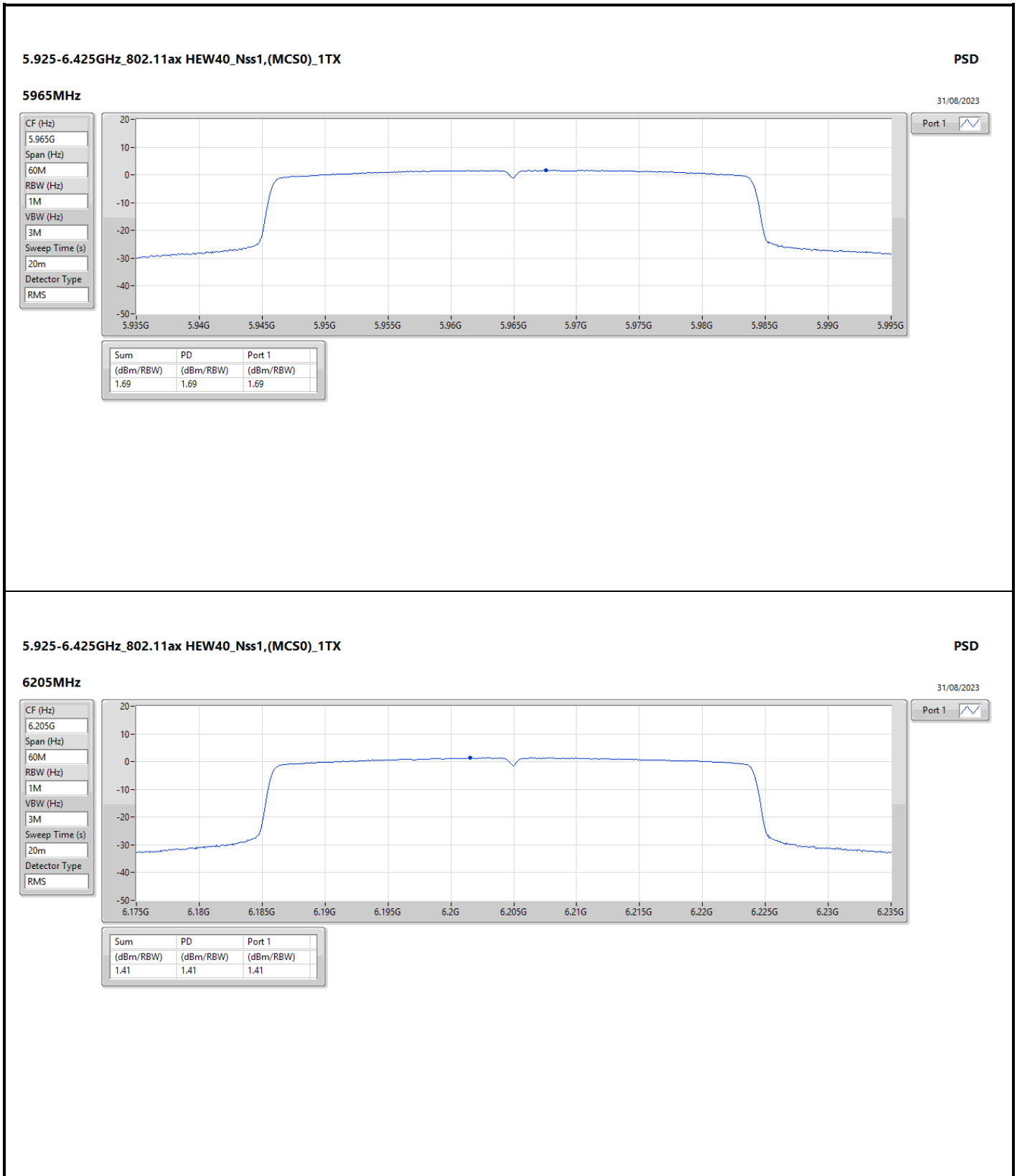
| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | Port 3 (dBm/RBW) | Port 4 (dBm/RBW) | PD (dBm/RBW) | EIRP PD (dBm/RBW) | EIRP PD Limit (dBm/RBW) |
|---------------------------------|--------|-------------|---------------------|---------------------|---------------------|---------------------|-----------------|----------------------|----------------------------|
| 6195MHz | Pass | 9.21 | 3.87 | 4.08 | 4.95 | 4.22 | 10.22 | 19.43 | 23.00 |
| 6415MHz | Pass | 9.21 | 3.62 | 3.85 | 4.73 | 3.96 | 9.85 | 19.06 | 23.00 |
| 6535MHz | Pass | 10.32 | 3.37 | 3.72 | 4.41 | 3.76 | 9.74 | 20.06 | 23.00 |
| 6695MHz | Pass | 10.32 | 4.42 | 4.71 | 5.12 | 4.73 | 10.60 | 20.92 | 23.00 |
| 6855MHz | Pass | 10.32 | 4.53 | 4.84 | 5.12 | 4.48 | 10.69 | 21.01 | 23.00 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 9.21 | -0.29 | -0.08 | 1.25 | 0.14 | 6.24 | 15.45 | 23.00 |
| 6205MHz | Pass | 9.21 | 1.39 | 1.41 | 3.03 | 1.78 | 7.90 | 17.11 | 23.00 |
| 6405MHz | Pass | 9.21 | 0.85 | 1.27 | 2.42 | 1.68 | 7.40 | 16.61 | 23.00 |
| 6565MHz | Pass | 10.32 | 1.52 | 2.20 | 2.51 | 2.32 | 7.93 | 18.25 | 23.00 |
| 6685MHz | Pass | 10.32 | 1.78 | 2.05 | 2.81 | 2.21 | 8.10 | 18.42 | 23.00 |
| 6845MHz | Pass | 10.32 | 2.08 | 2.06 | 2.76 | 2.38 | 8.25 | 18.57 | 23.00 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 9.21 | -3.50 | -3.22 | -1.66 | -3.11 | 3.14 | 12.35 | 23.00 |
| 6225MHz | Pass | 9.21 | -1.51 | -1.44 | -0.19 | -1.38 | 4.81 | 14.02 | 23.00 |
| 6385MHz | Pass | 9.21 | -2.26 | -1.66 | -0.96 | -1.58 | 4.23 | 13.44 | 23.00 |
| 6625MHz | Pass | 10.32 | -1.09 | -0.36 | -0.20 | -0.59 | 5.27 | 15.59 | 23.00 |
| 6705MHz | Pass | 10.32 | -1.11 | -0.53 | -0.19 | -0.63 | 5.24 | 15.56 | 23.00 |
| 6785MHz | Pass | 10.32 | -1.12 | -0.79 | -0.28 | -0.67 | 5.18 | 15.50 | 23.00 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - |
| 6025MHz | Pass | 9.21 | -5.11 | -5.13 | -4.26 | -5.25 | 0.92 | 10.13 | 23.00 |
| 6185MHz | Pass | 9.21 | -3.46 | -3.78 | -2.56 | -3.73 | 2.56 | 11.77 | 23.00 |
| 6345MHz | Pass | 9.21 | -5.19 | -4.53 | -3.87 | -4.42 | 1.39 | 10.60 | 23.00 |
| 6665MHz | Pass | 10.32 | -3.79 | -3.12 | -2.95 | -3.37 | 2.57 | 12.89 | 23.00 |

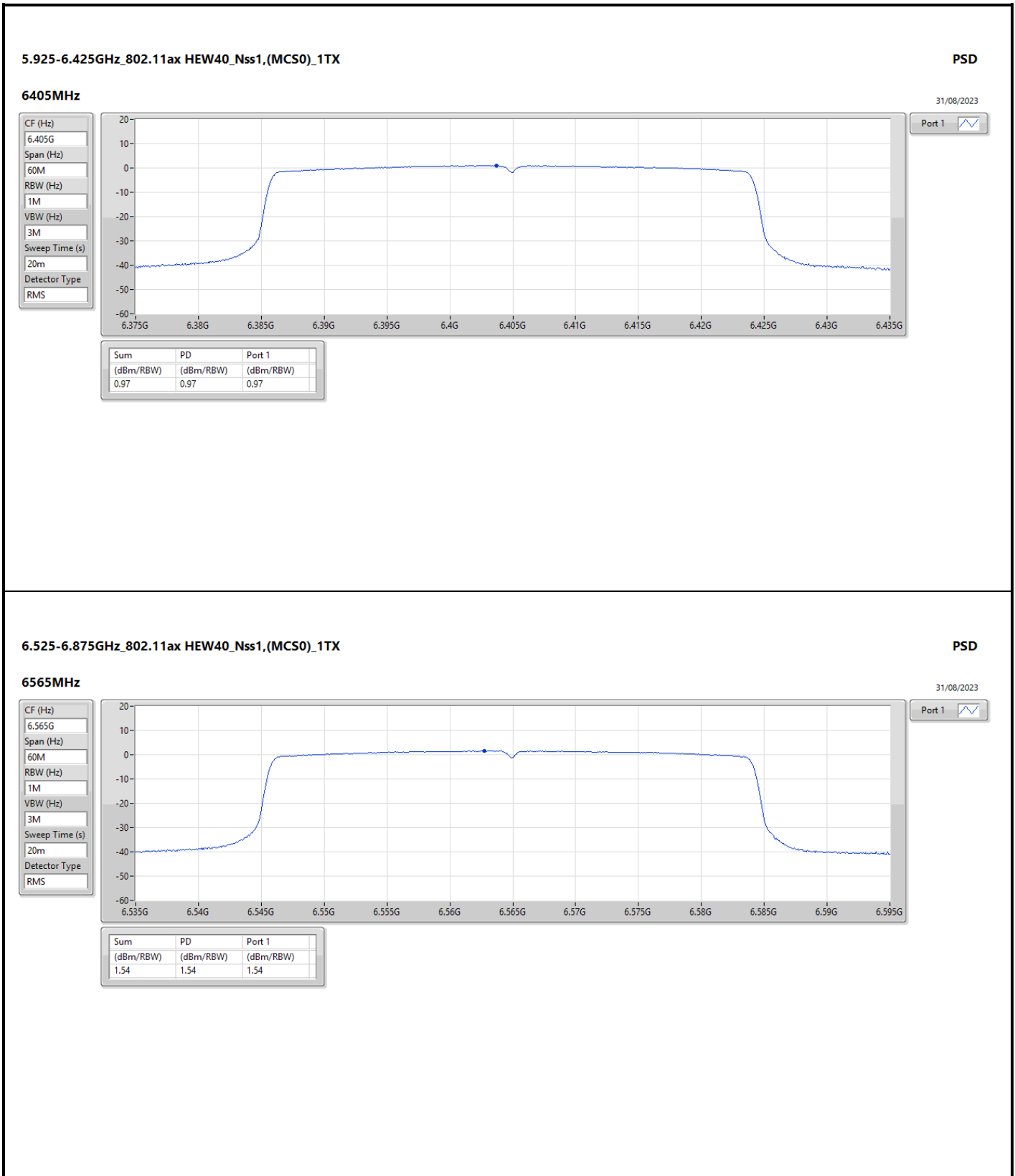
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

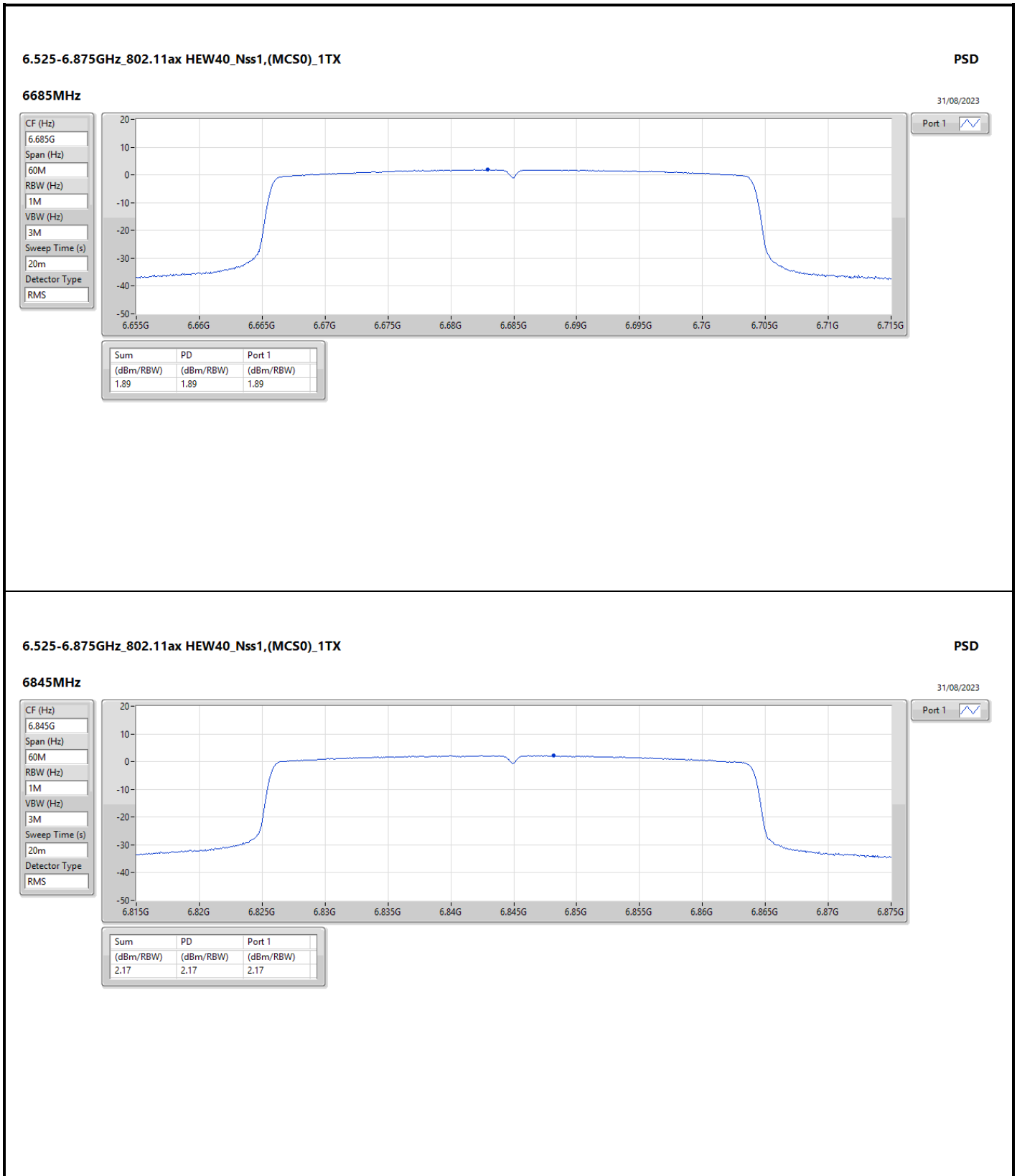


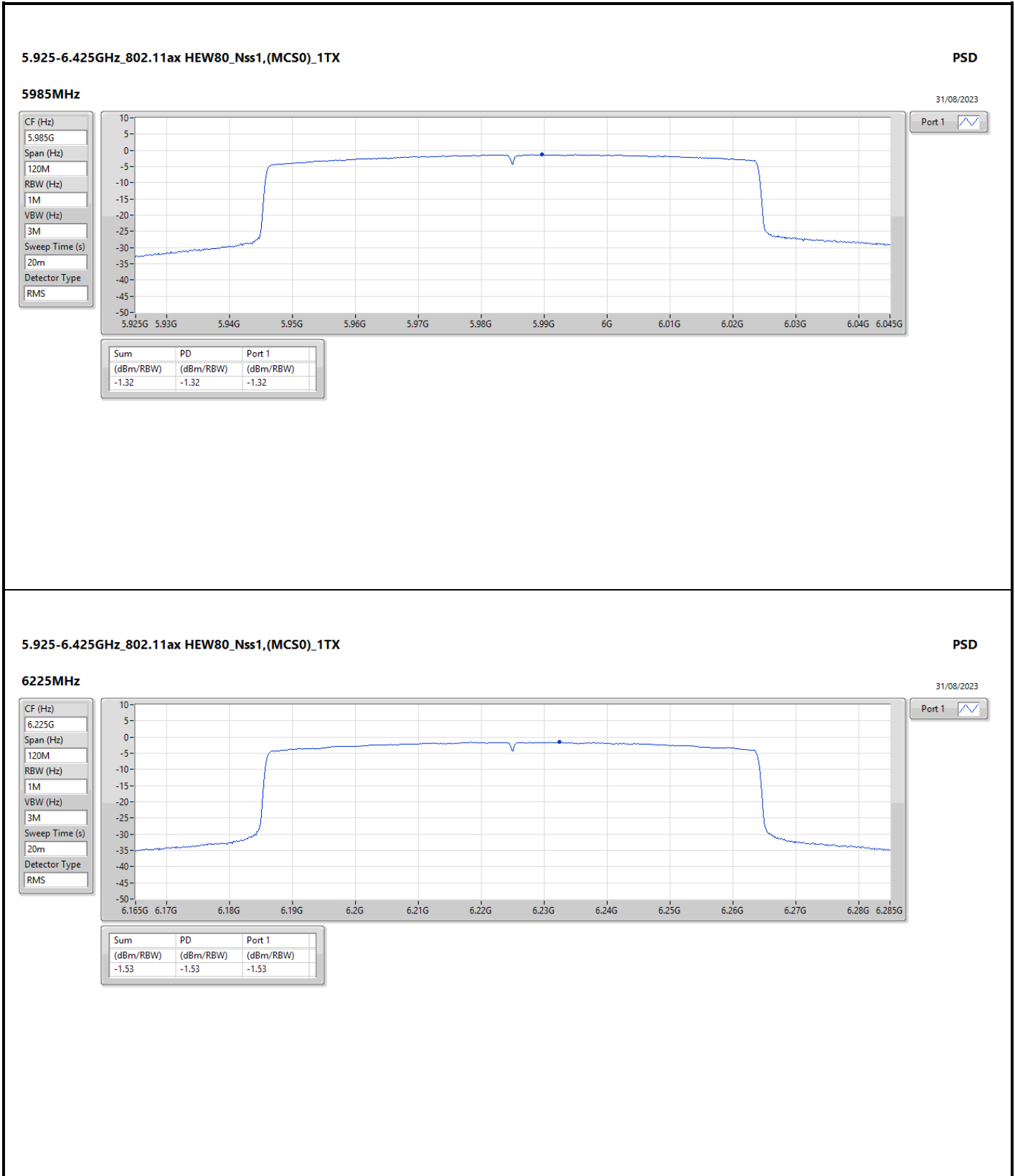


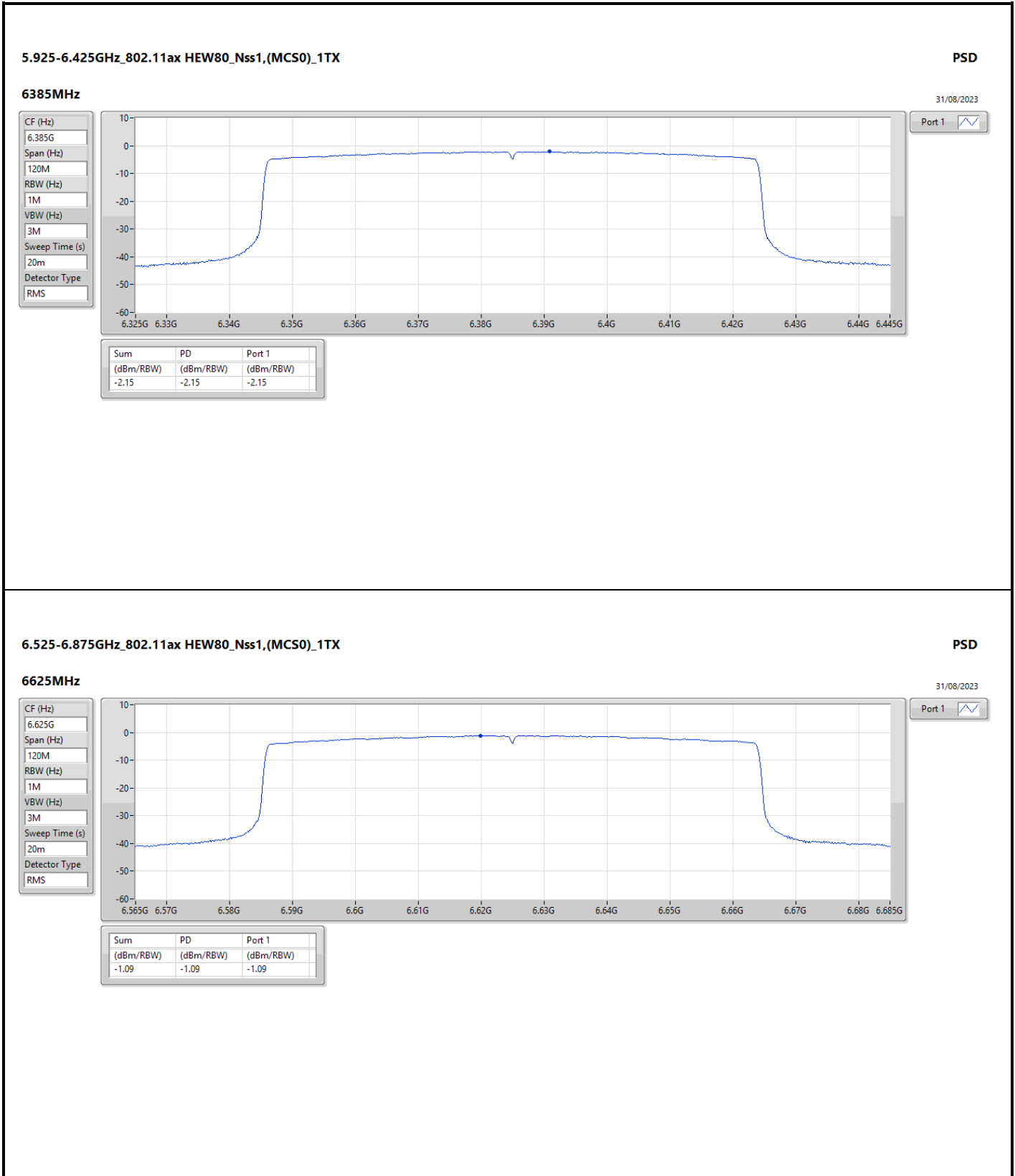


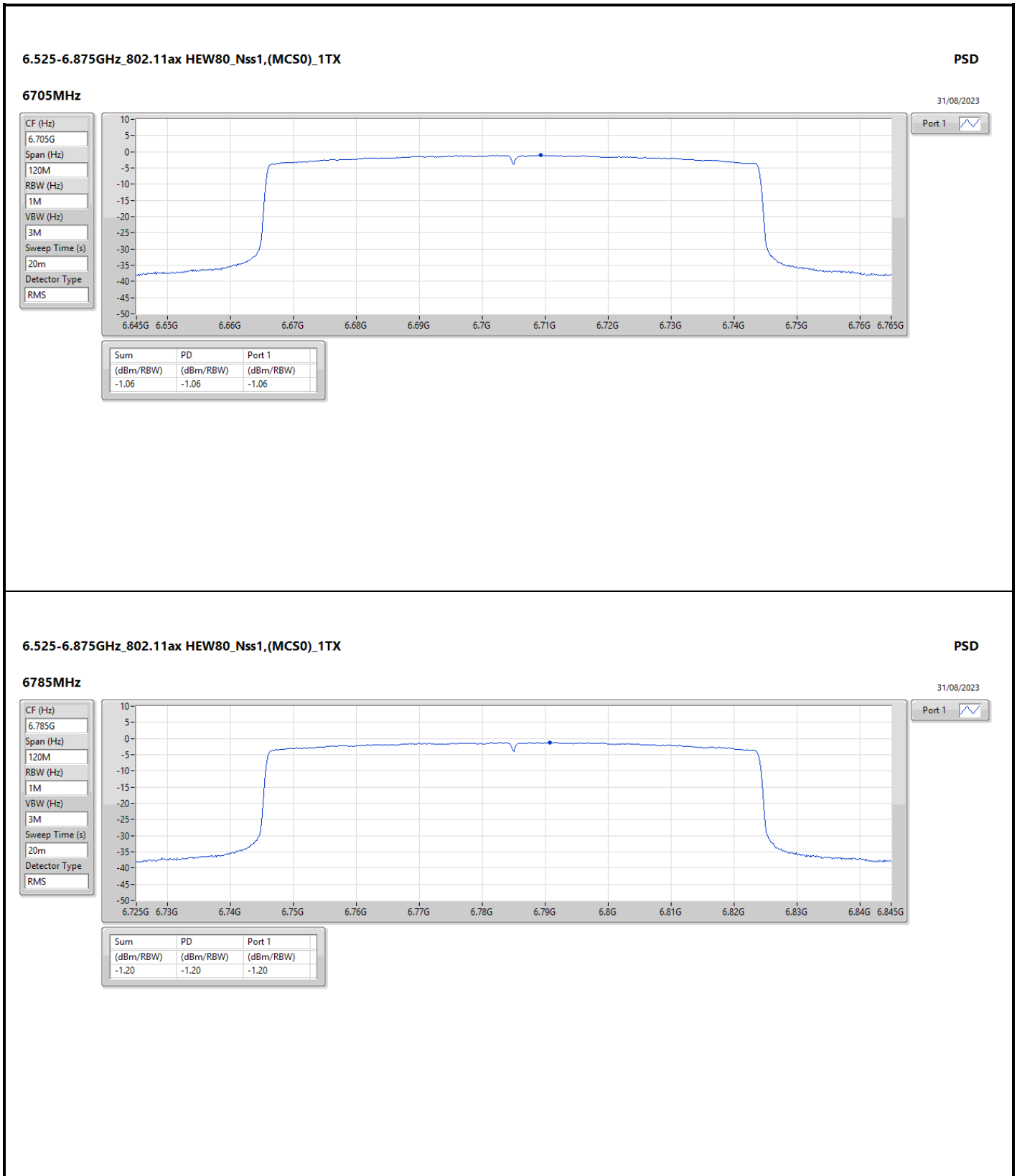


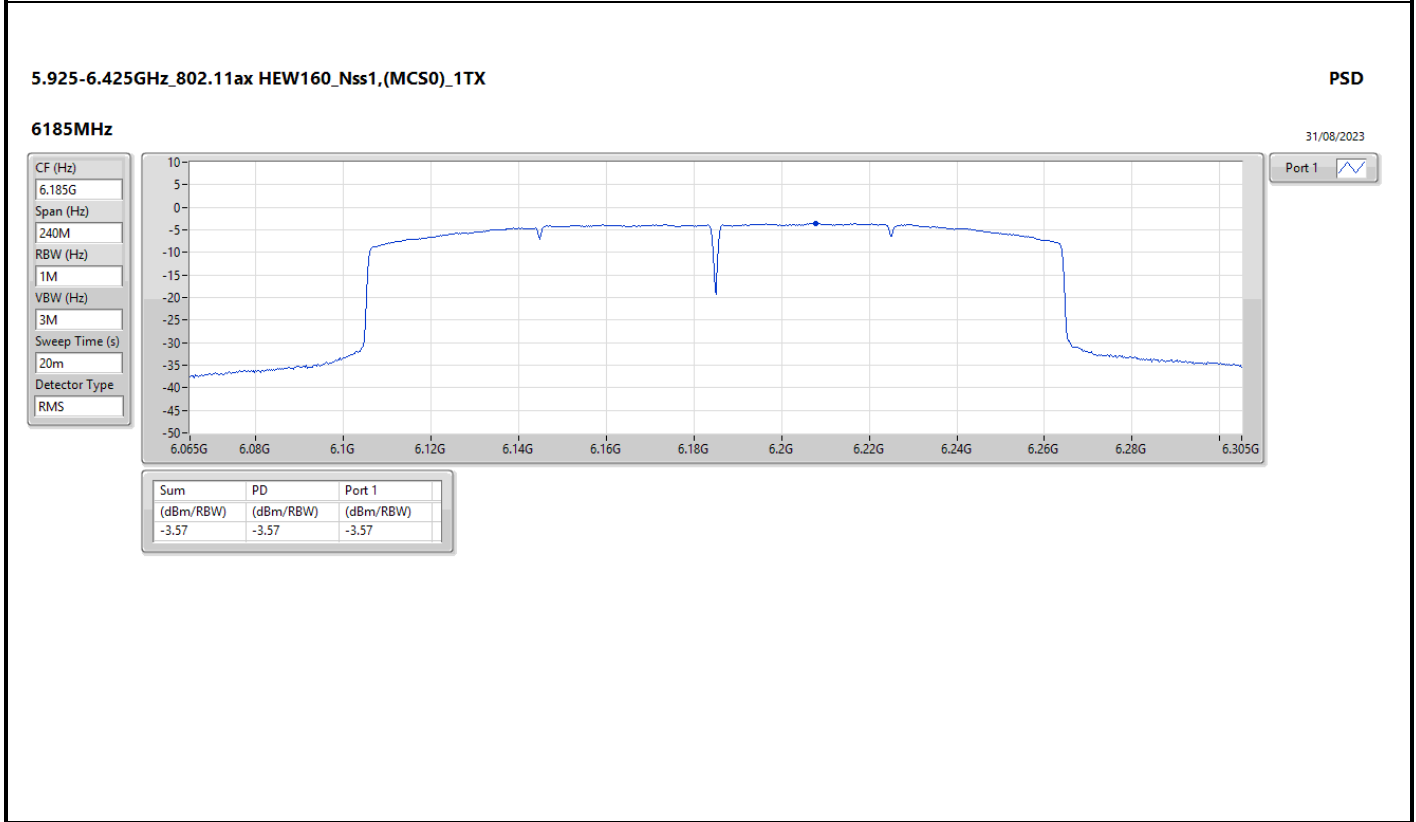
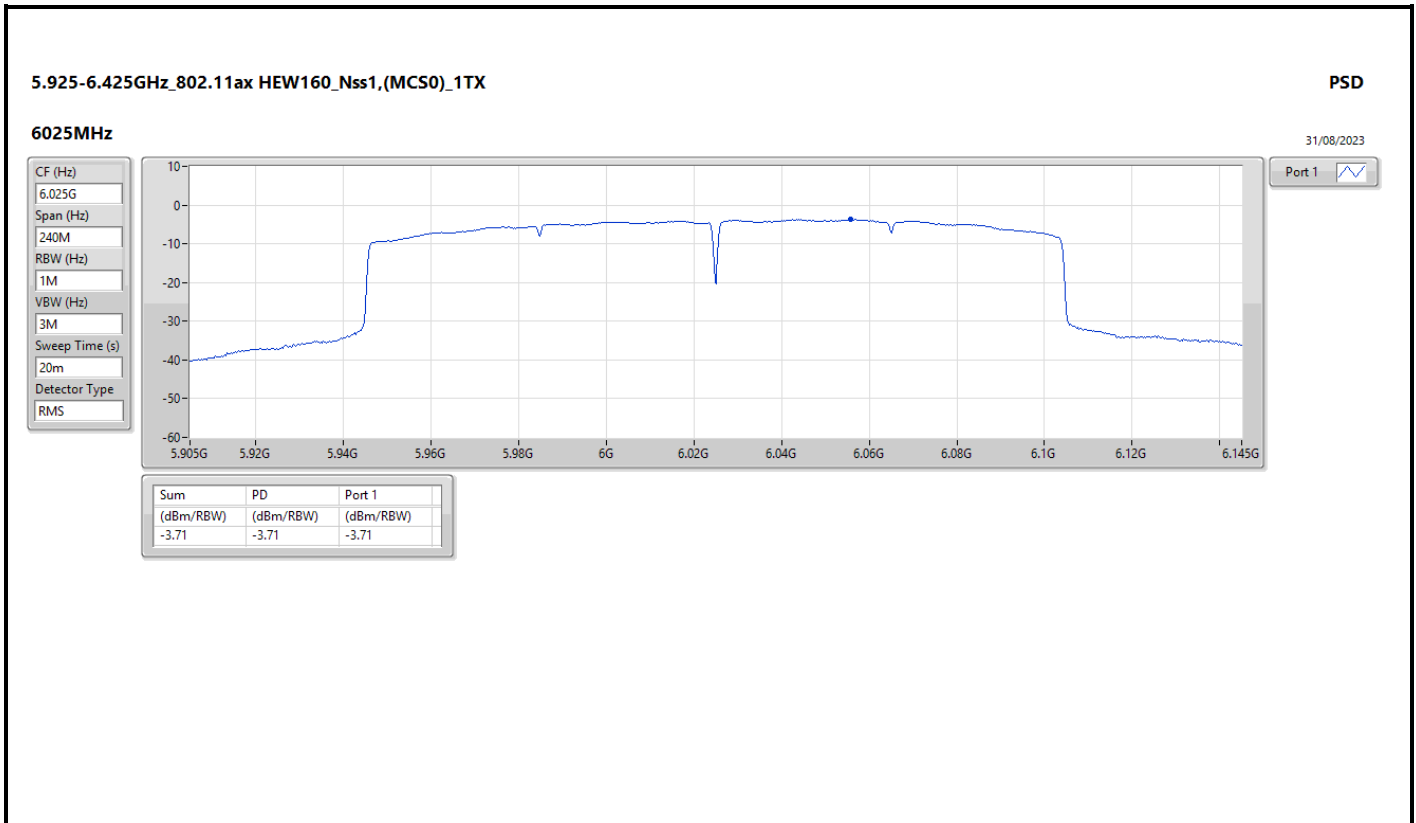


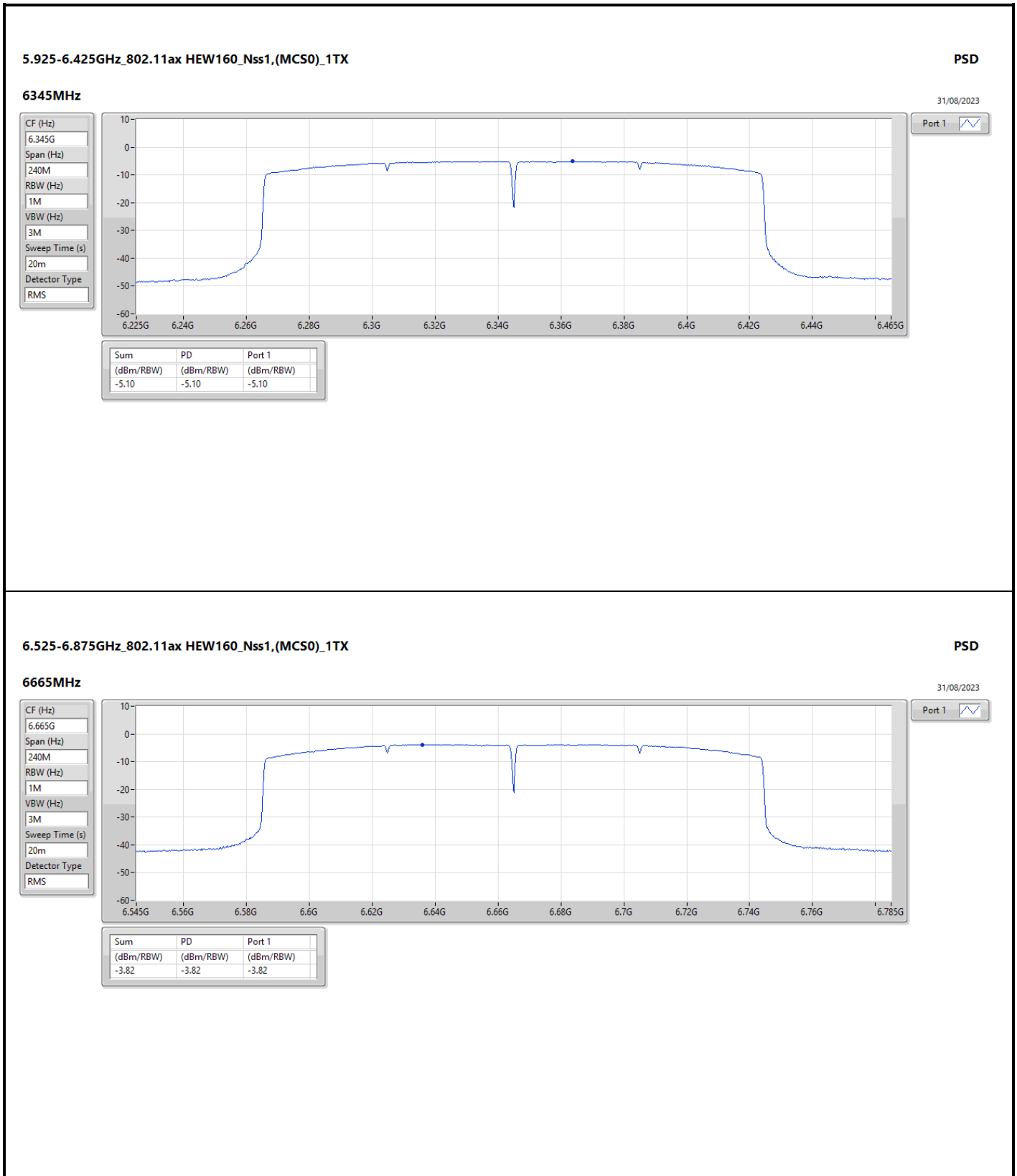




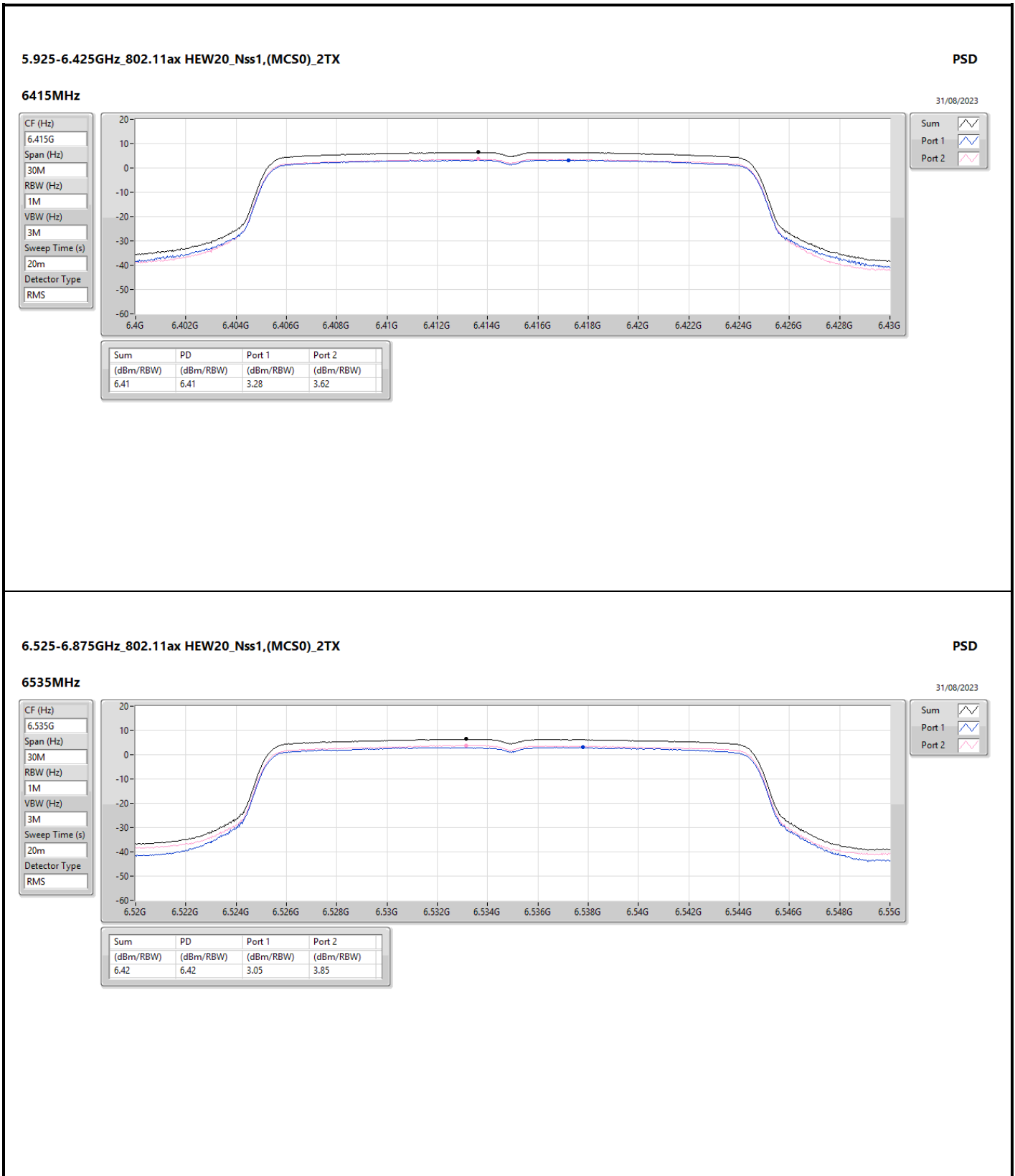




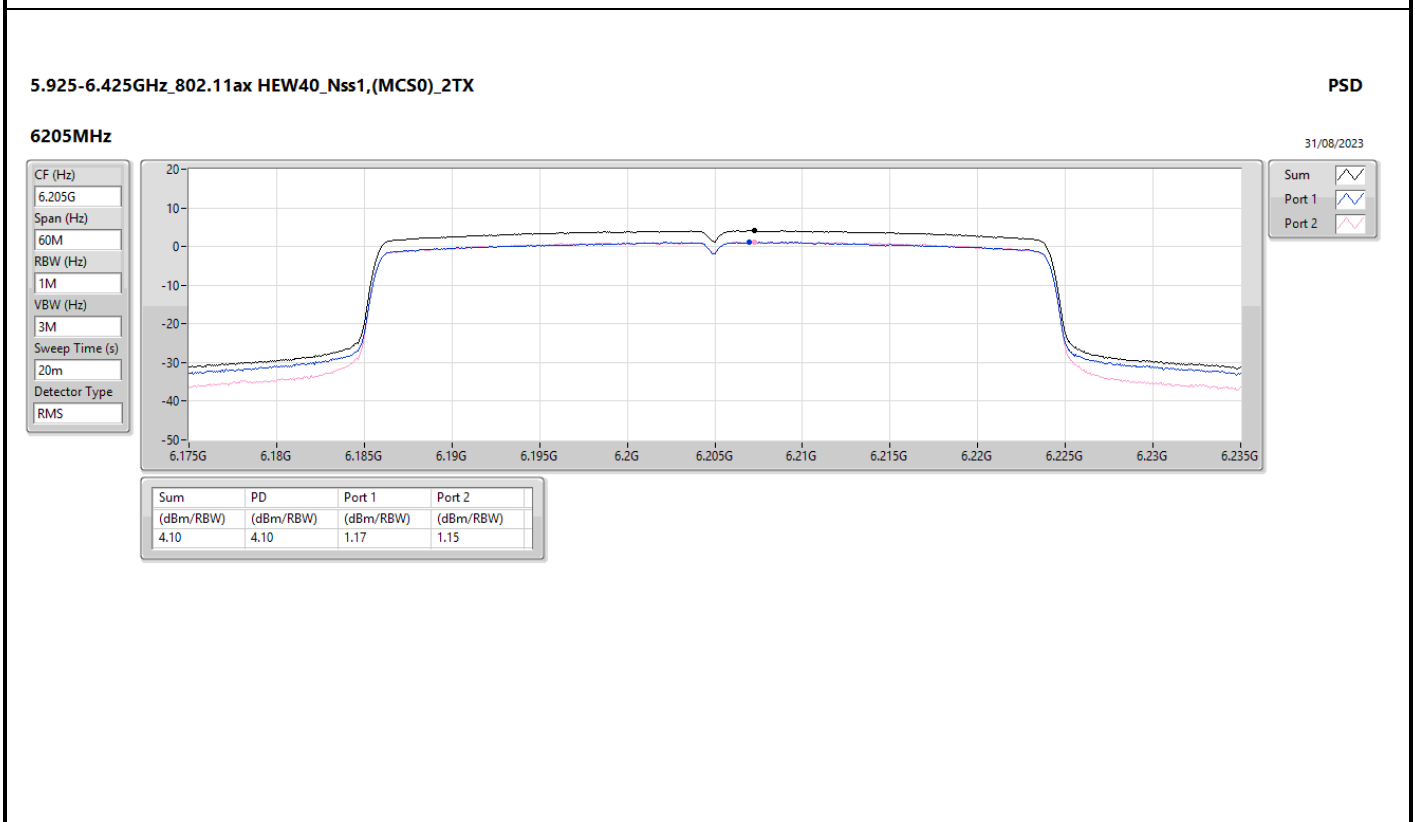
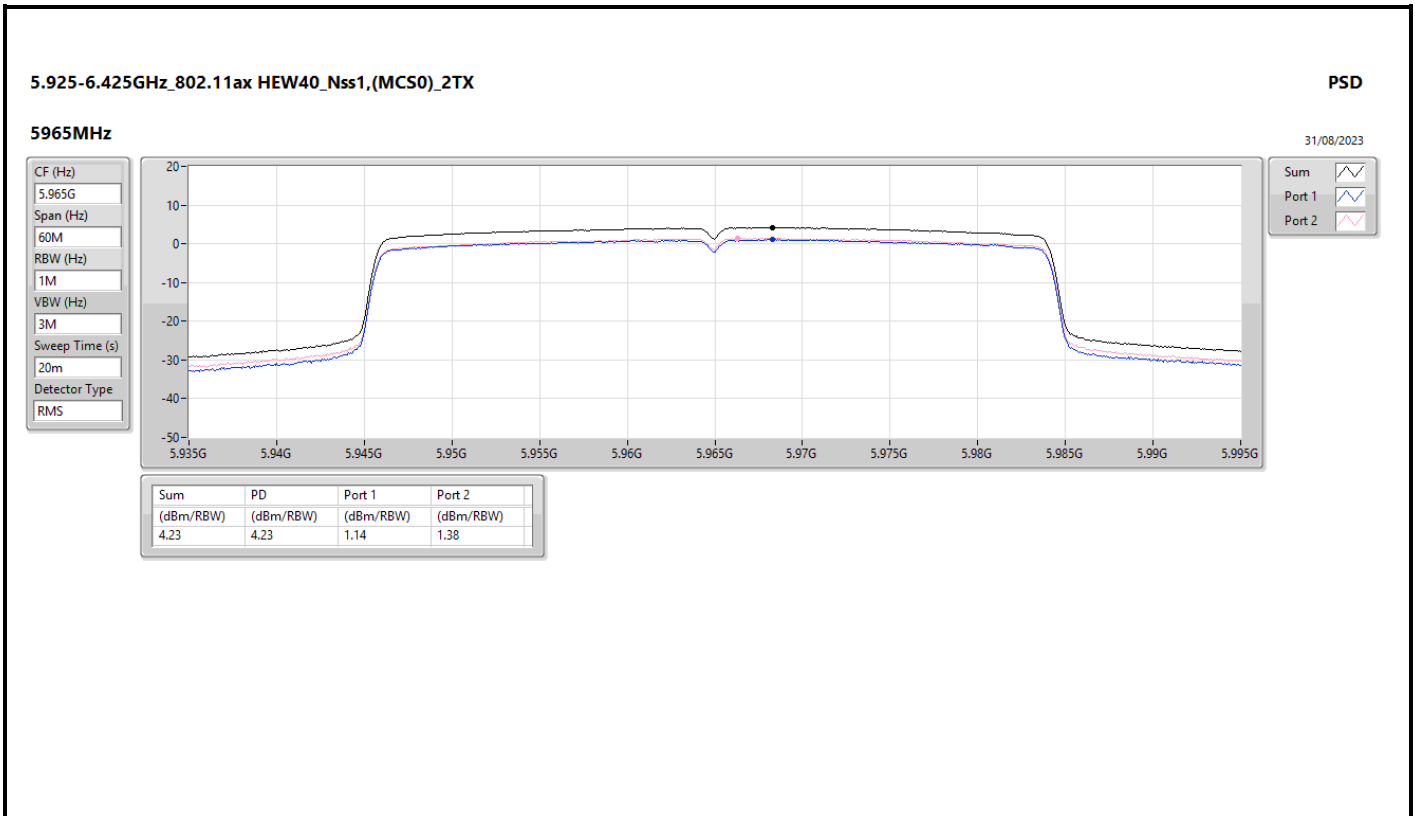




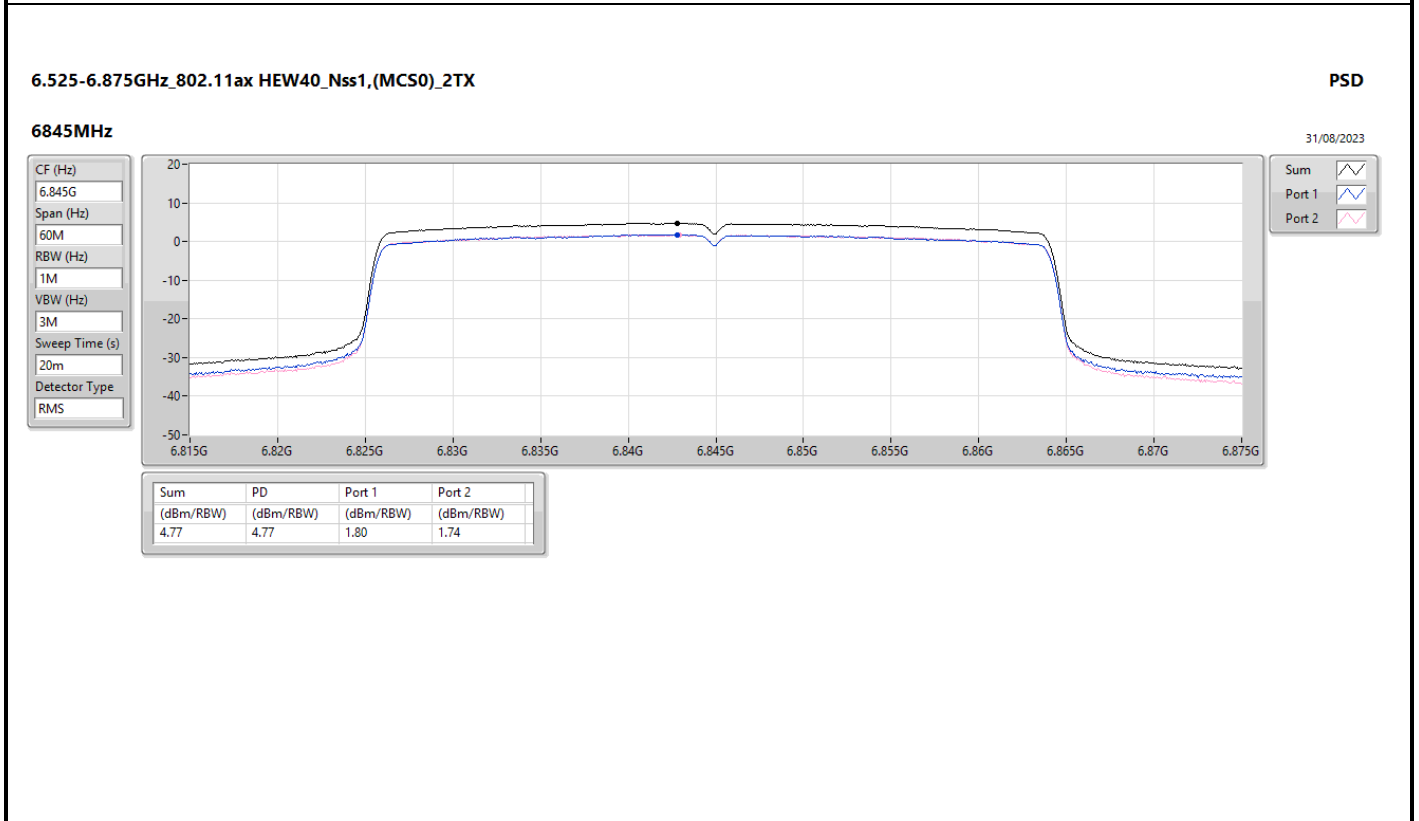
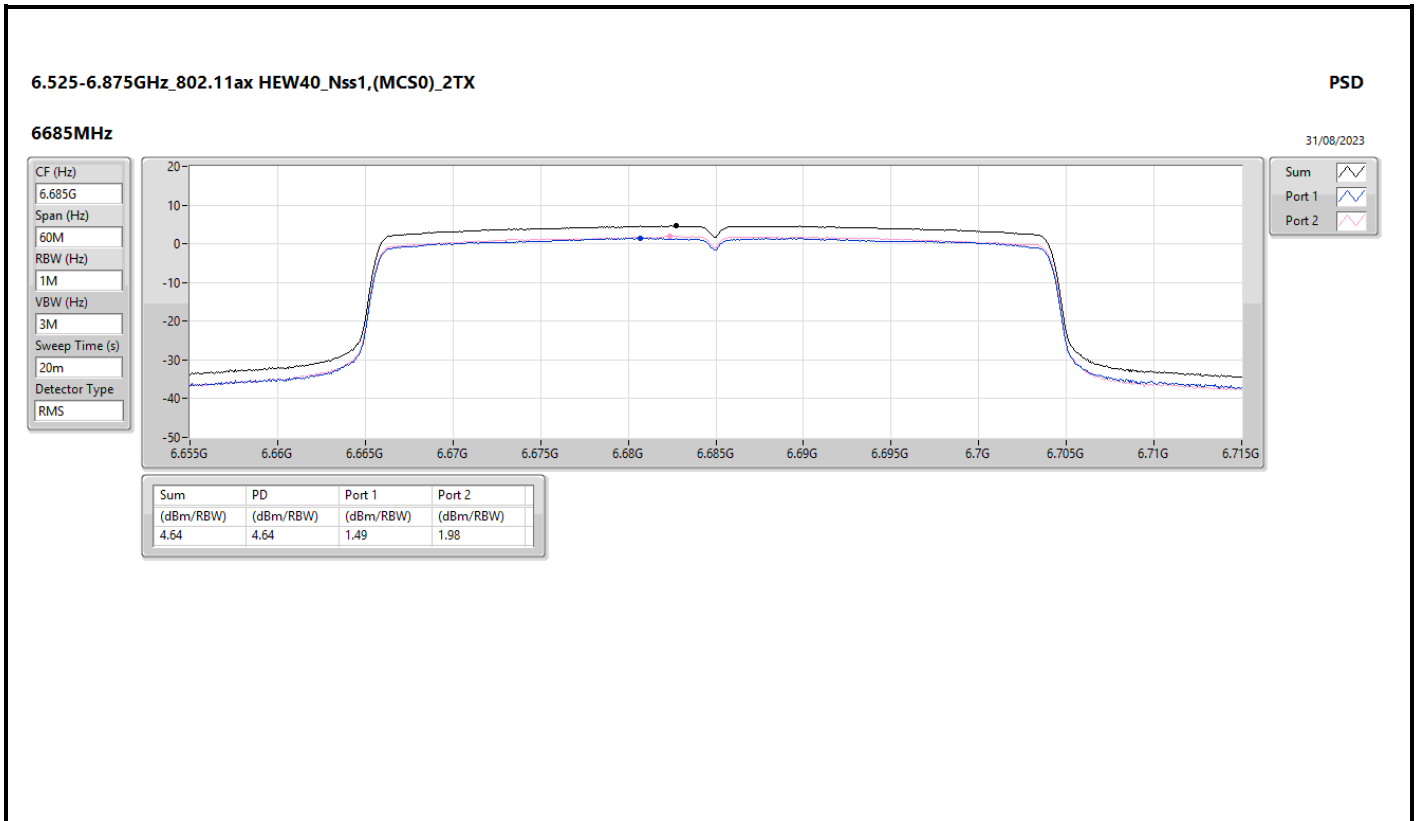






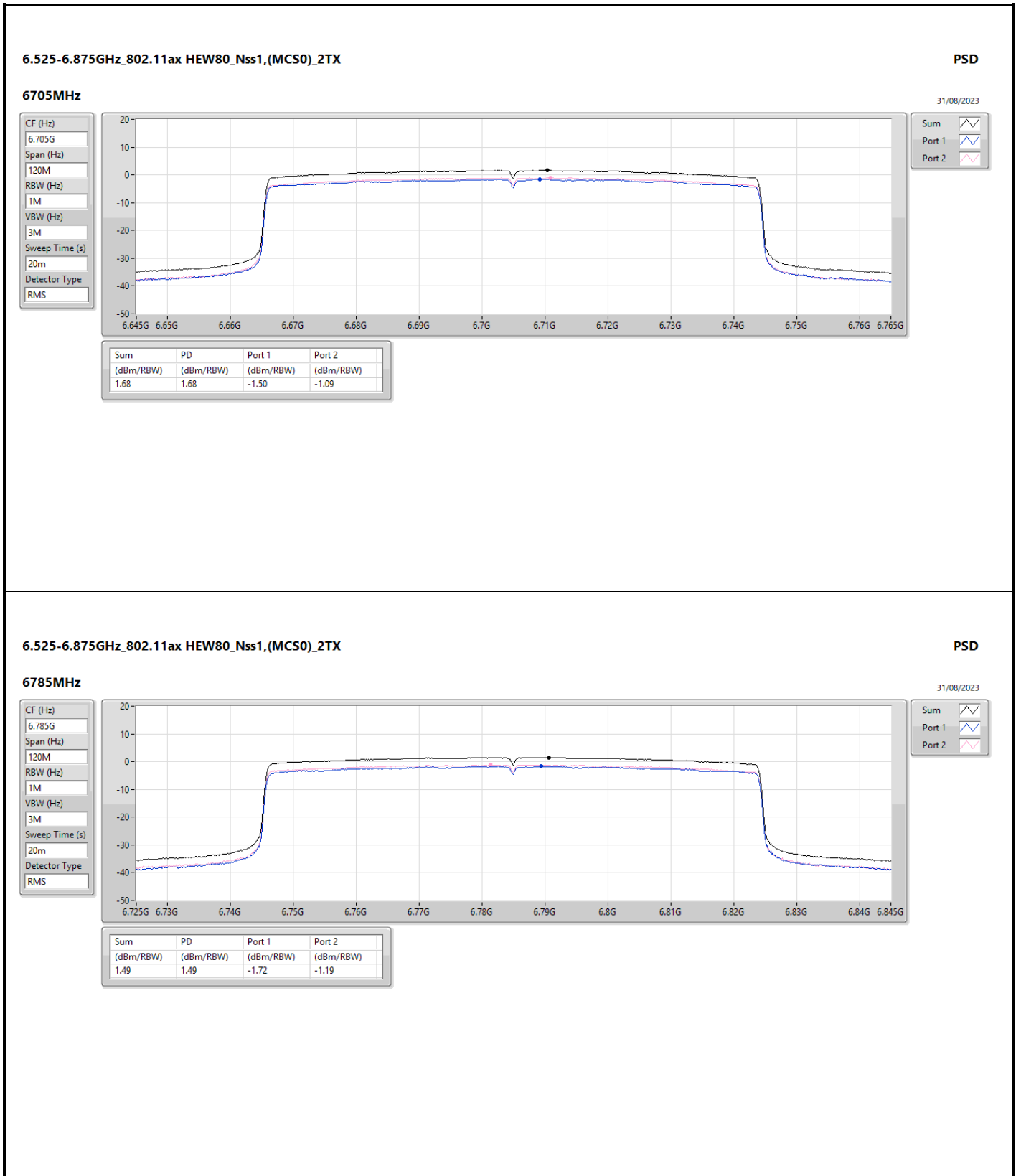


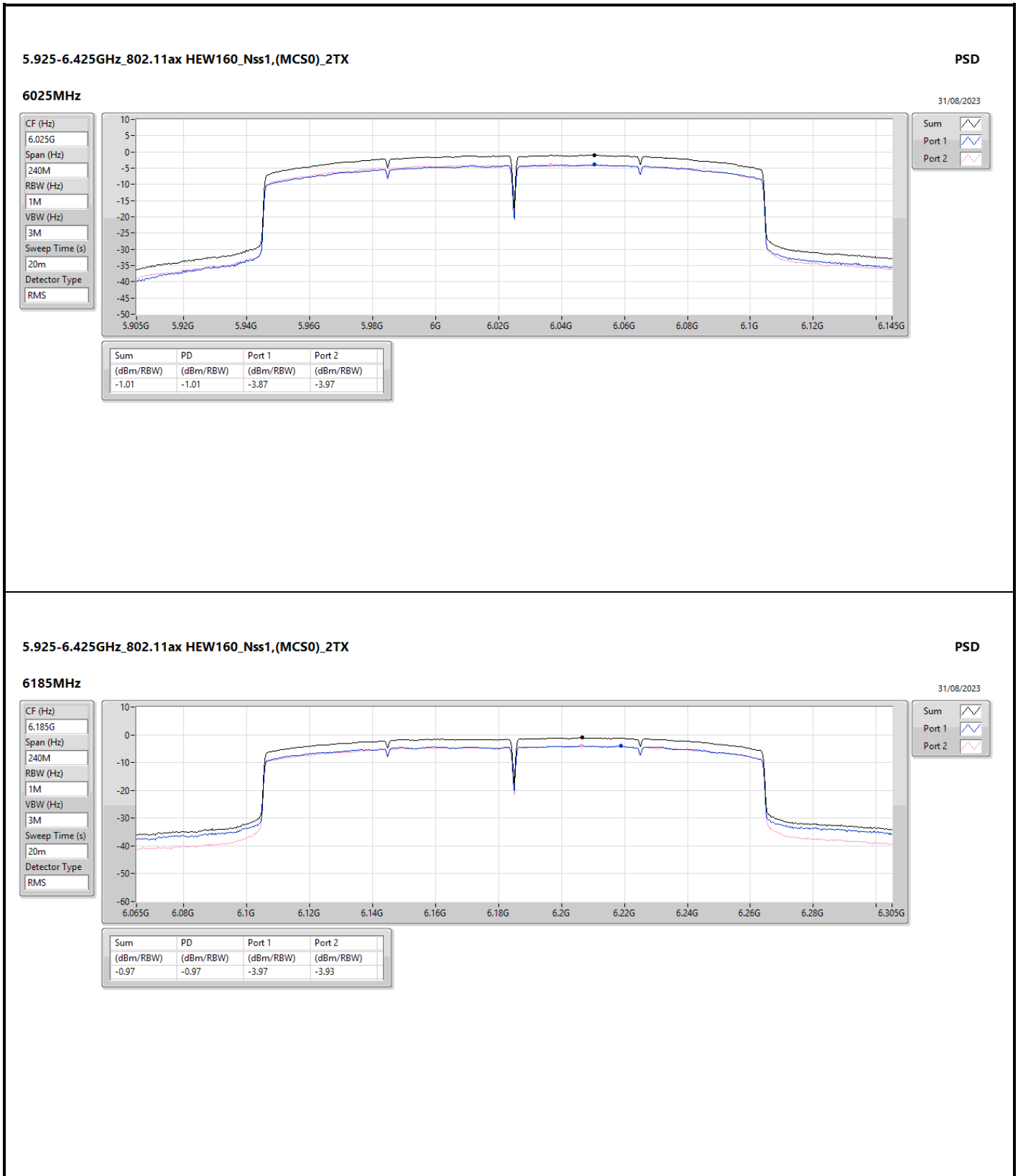


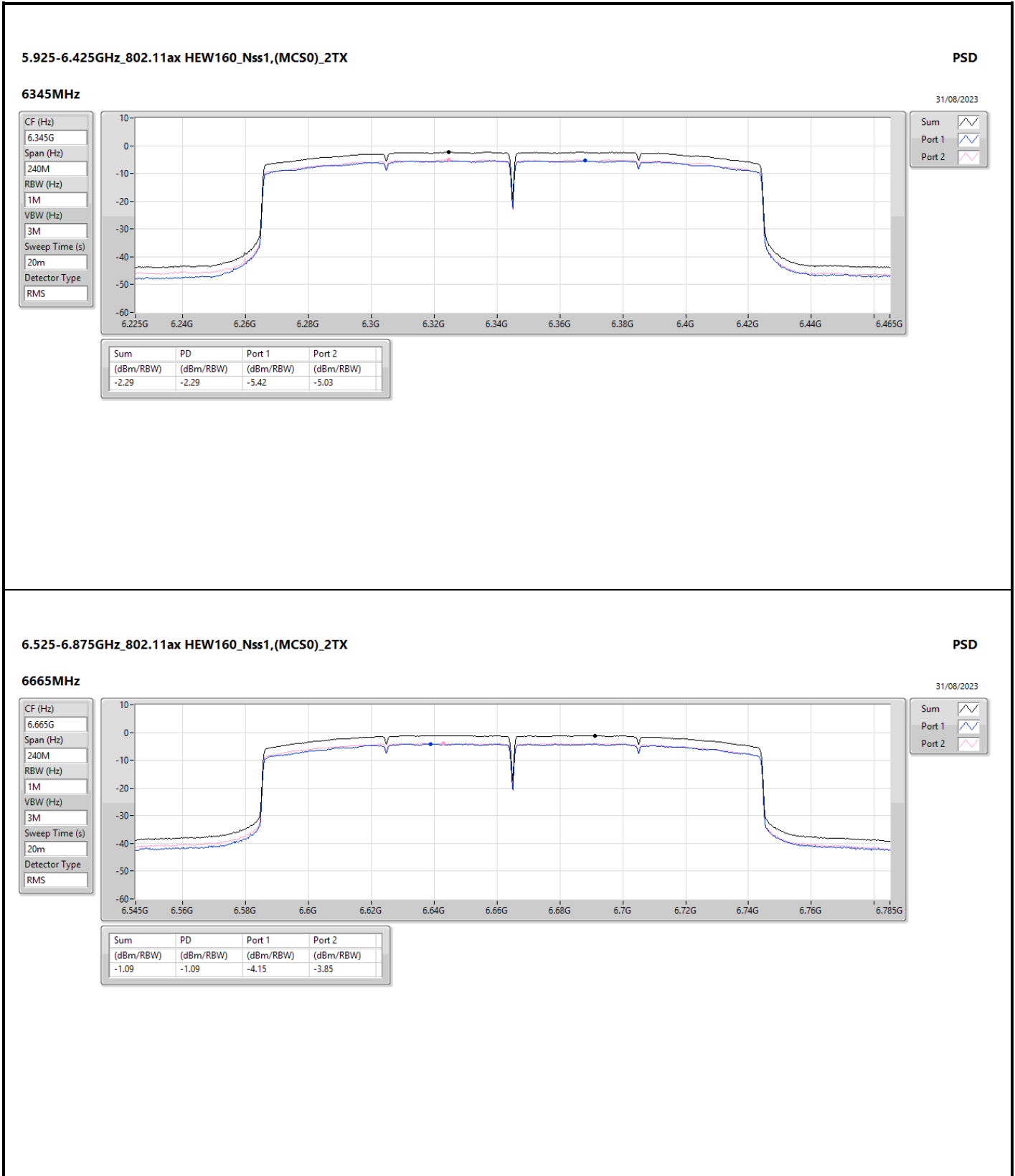


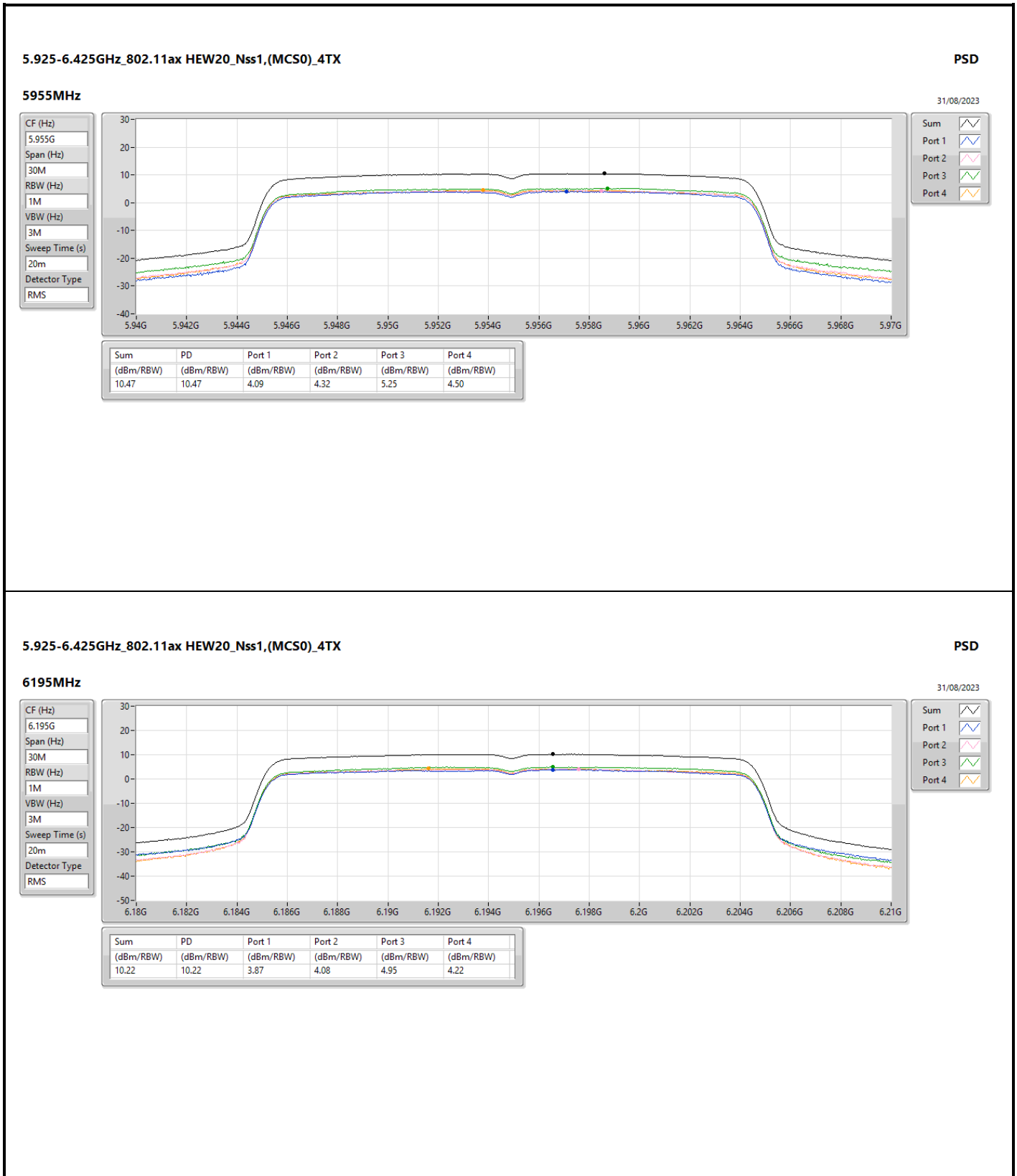


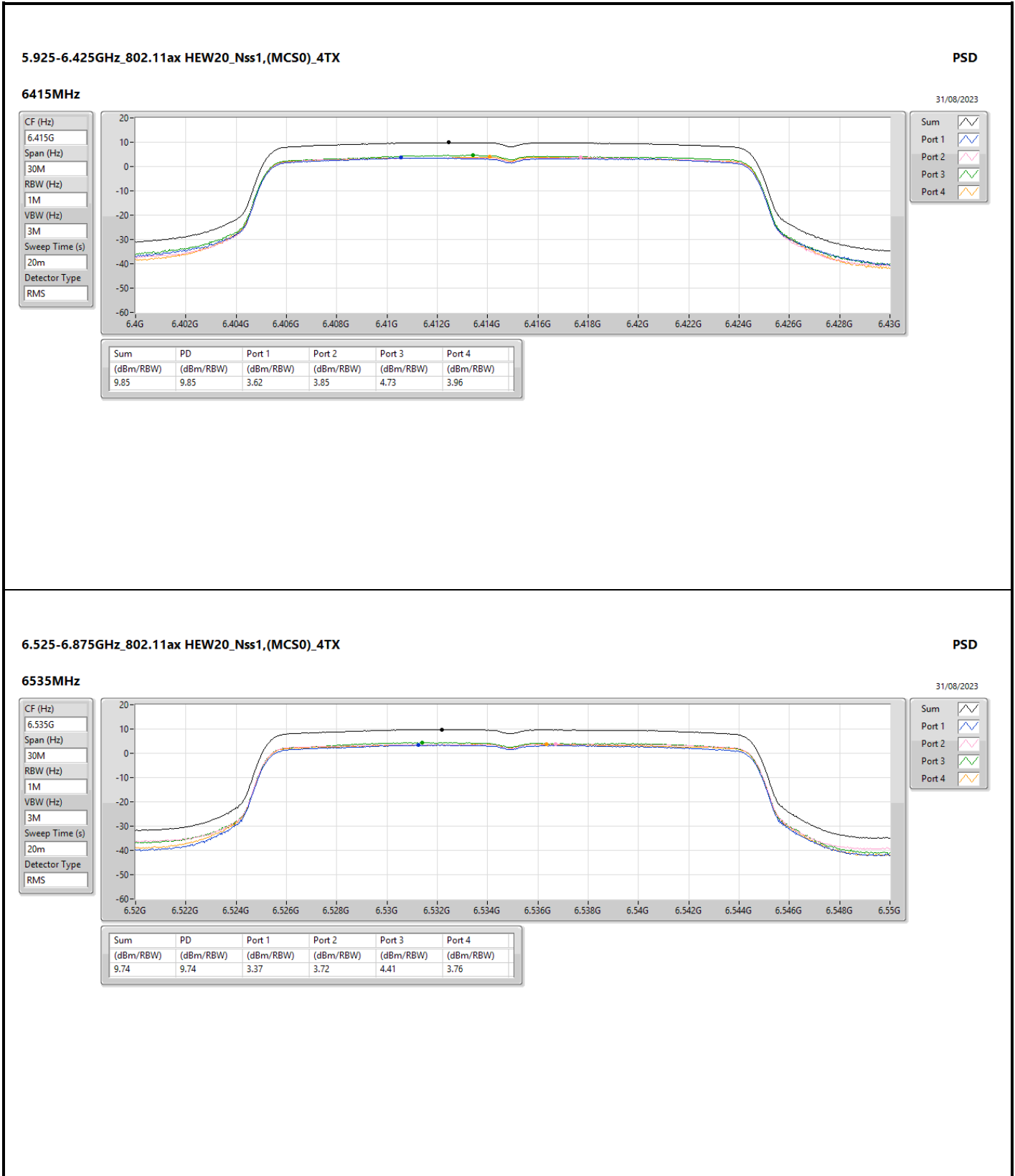


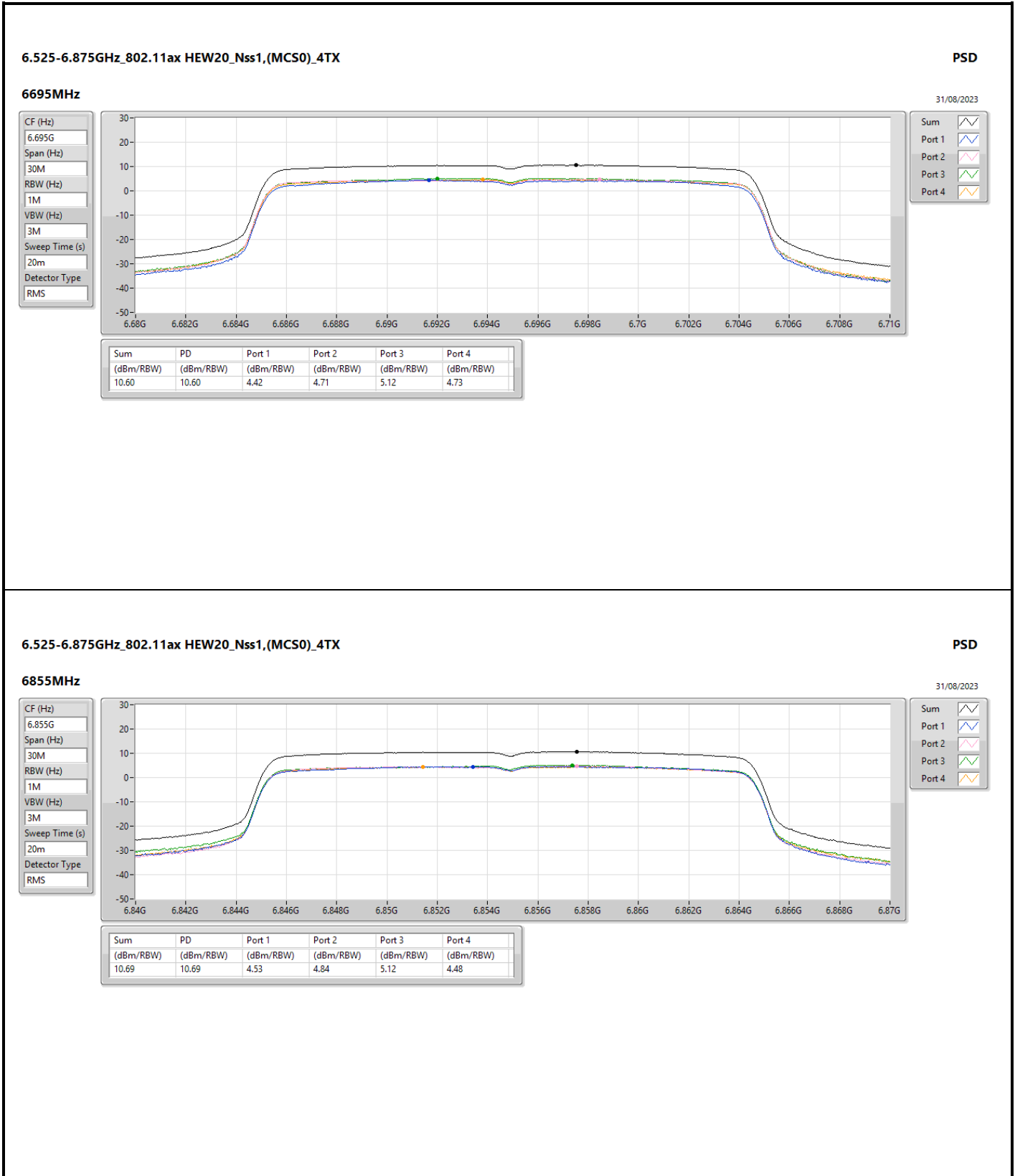


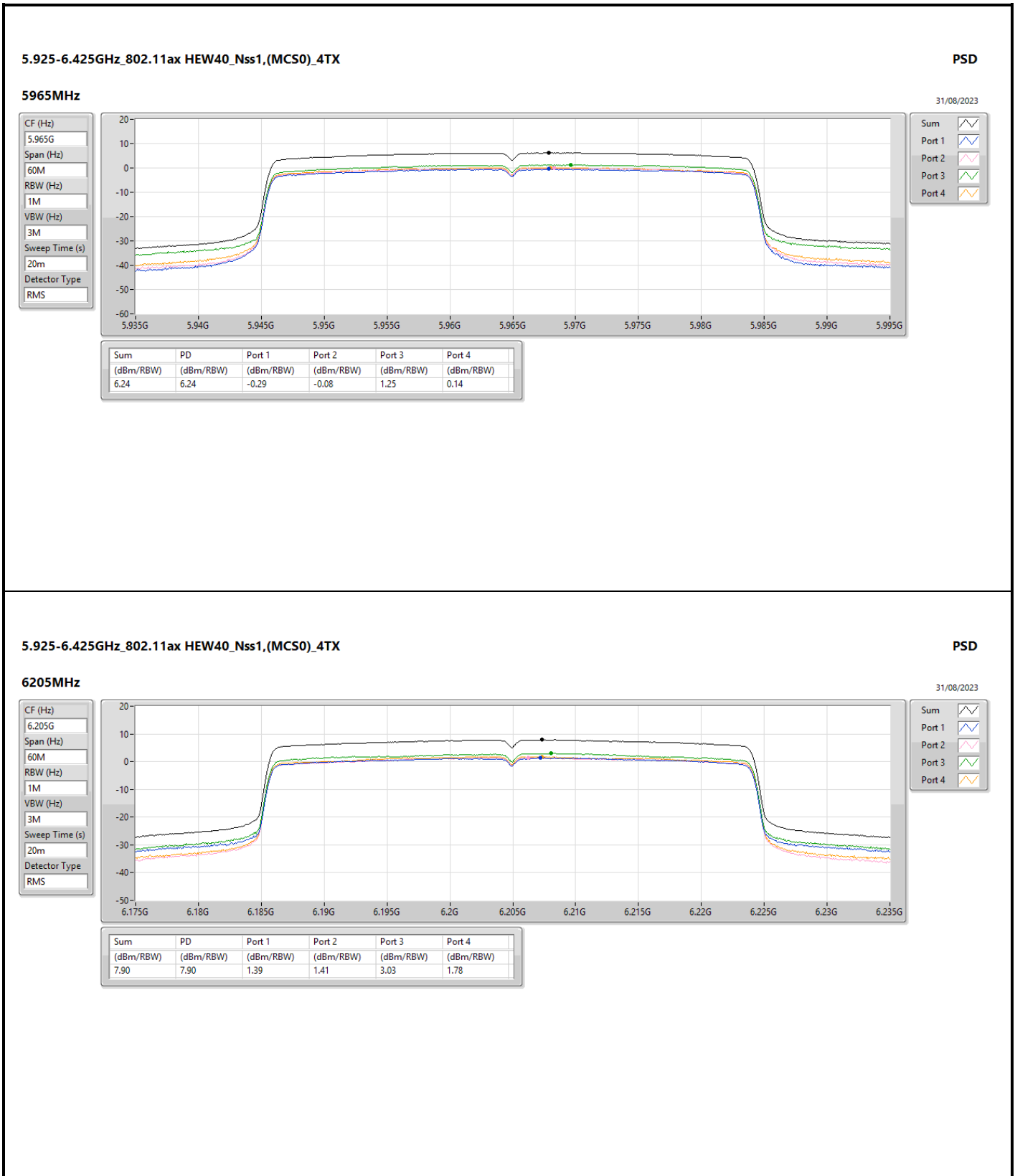


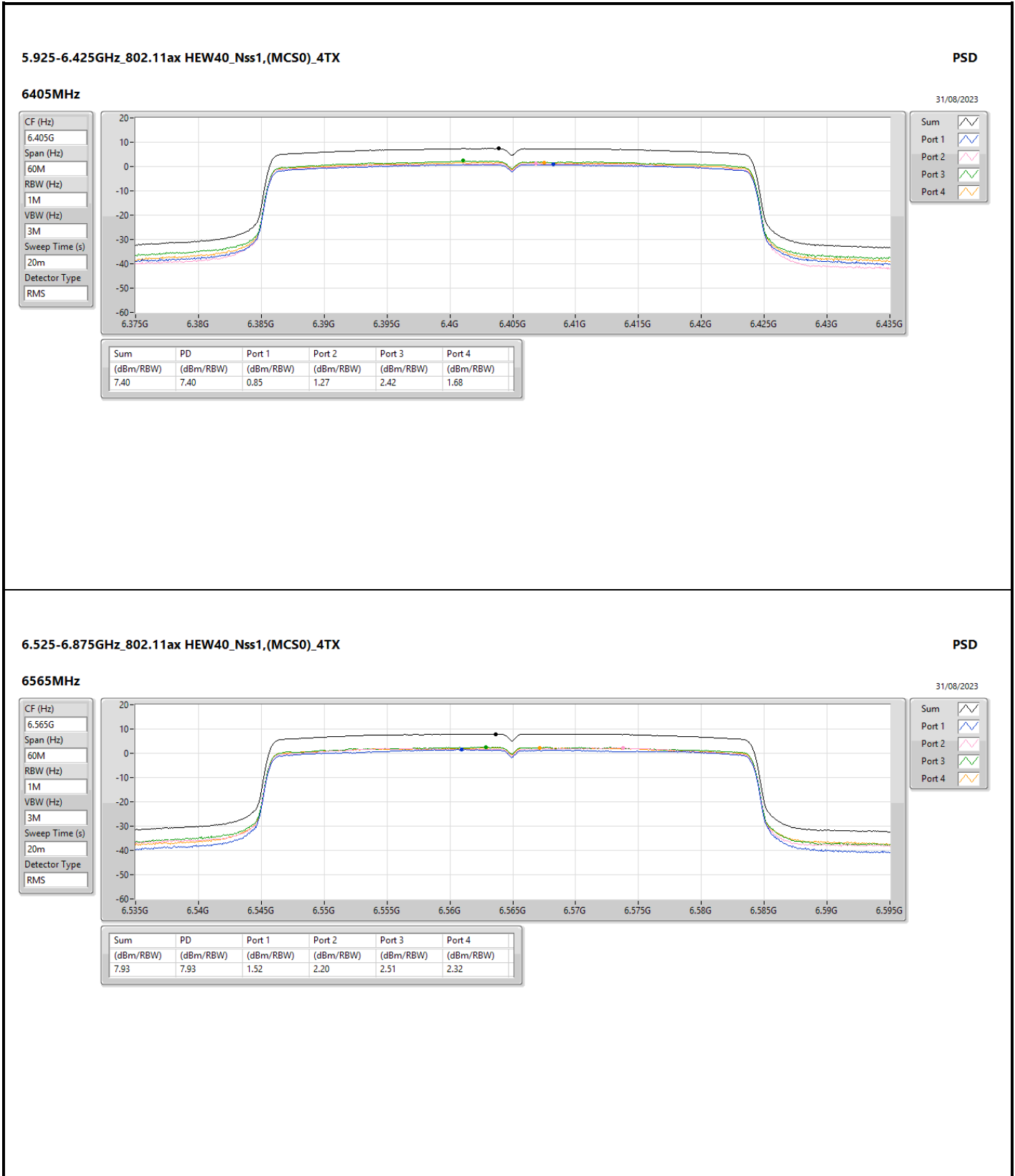


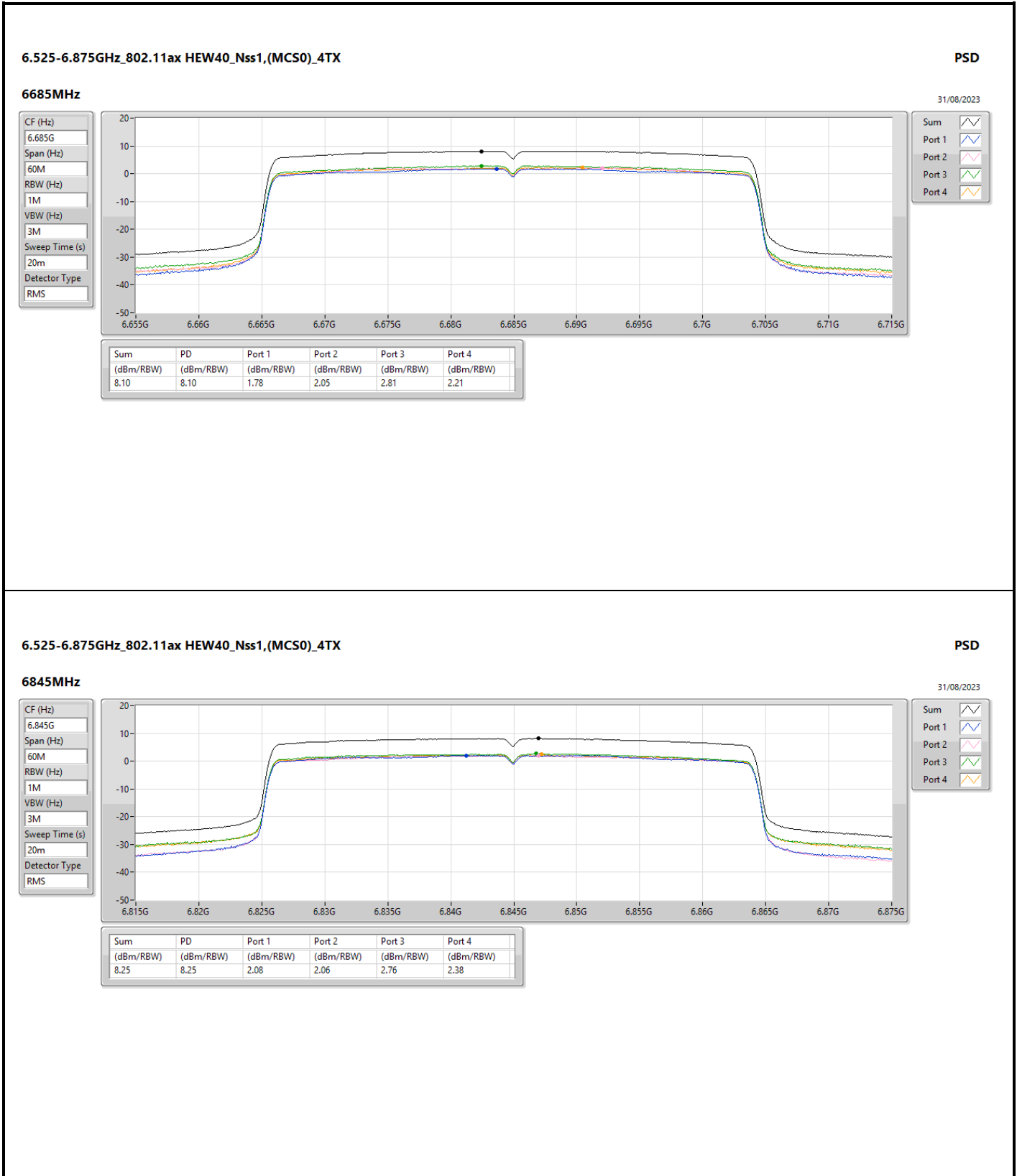


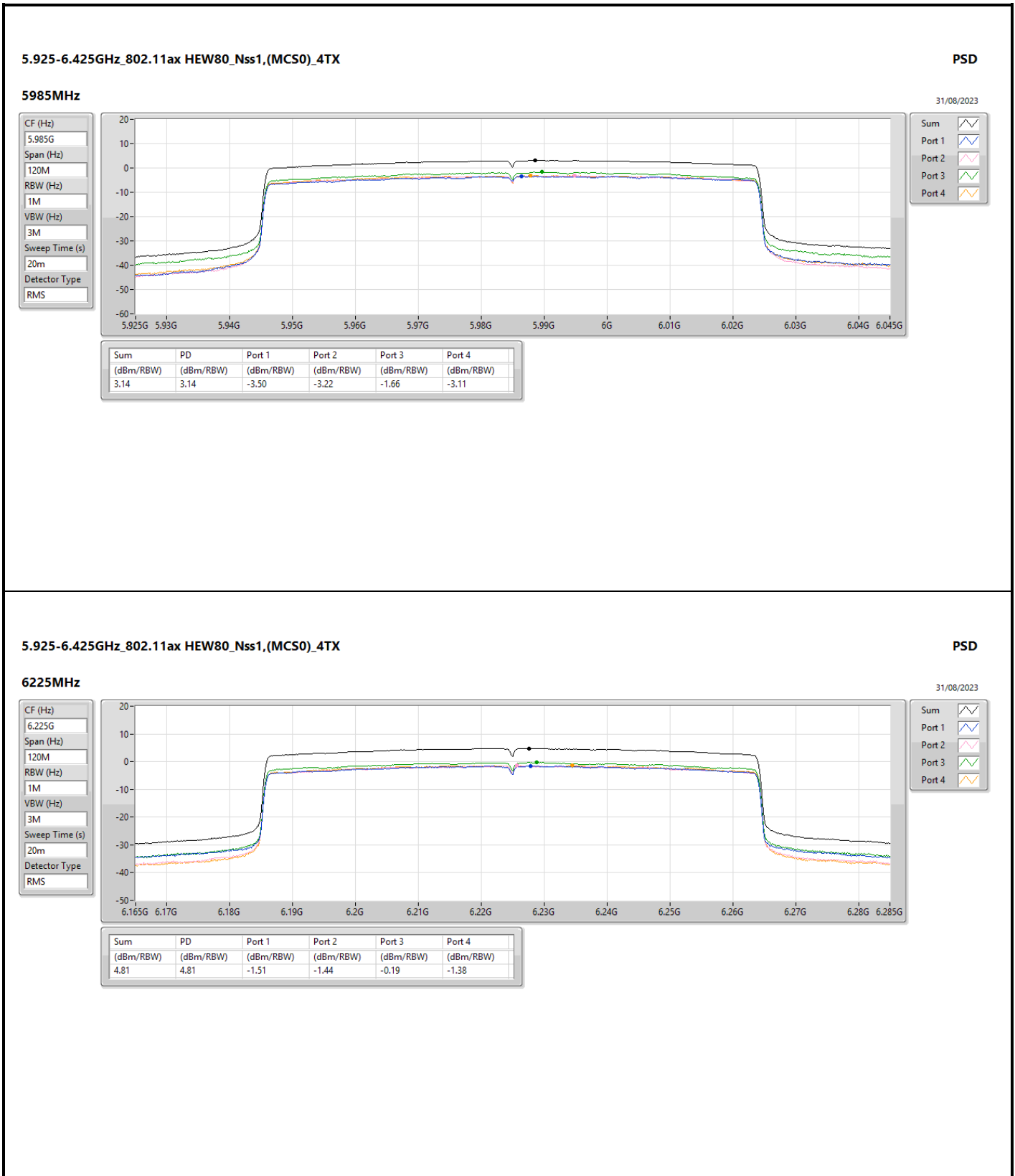


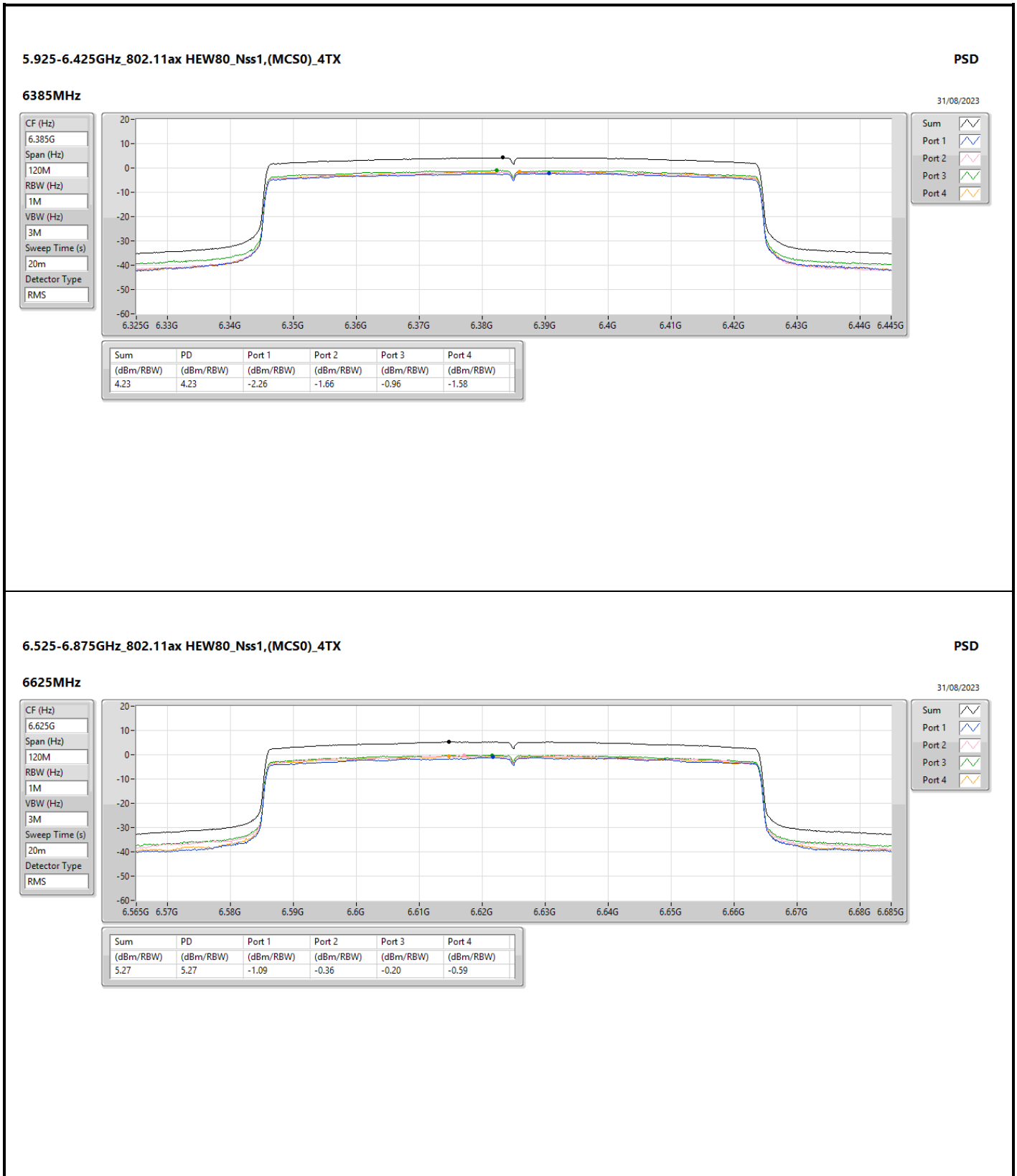


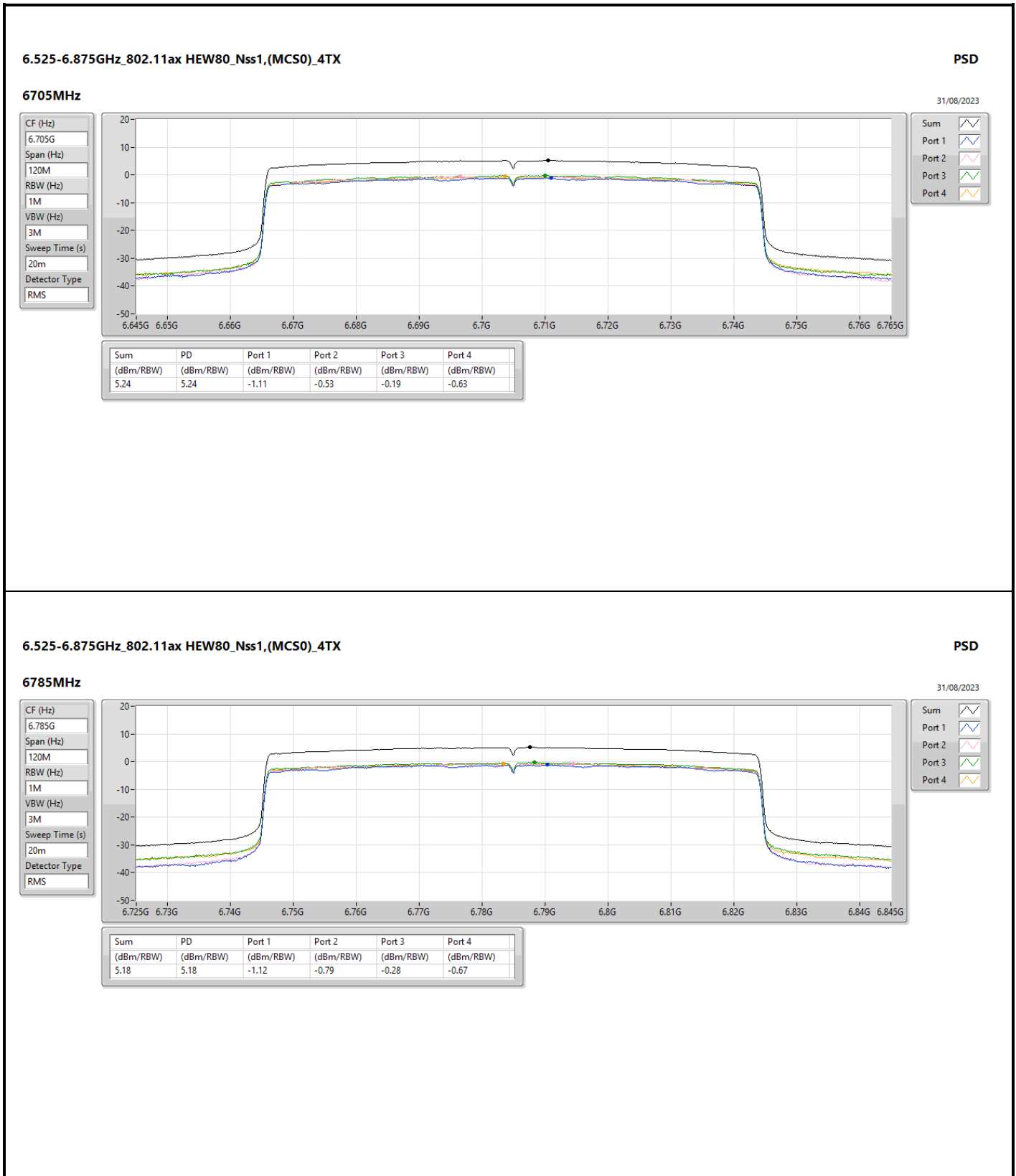


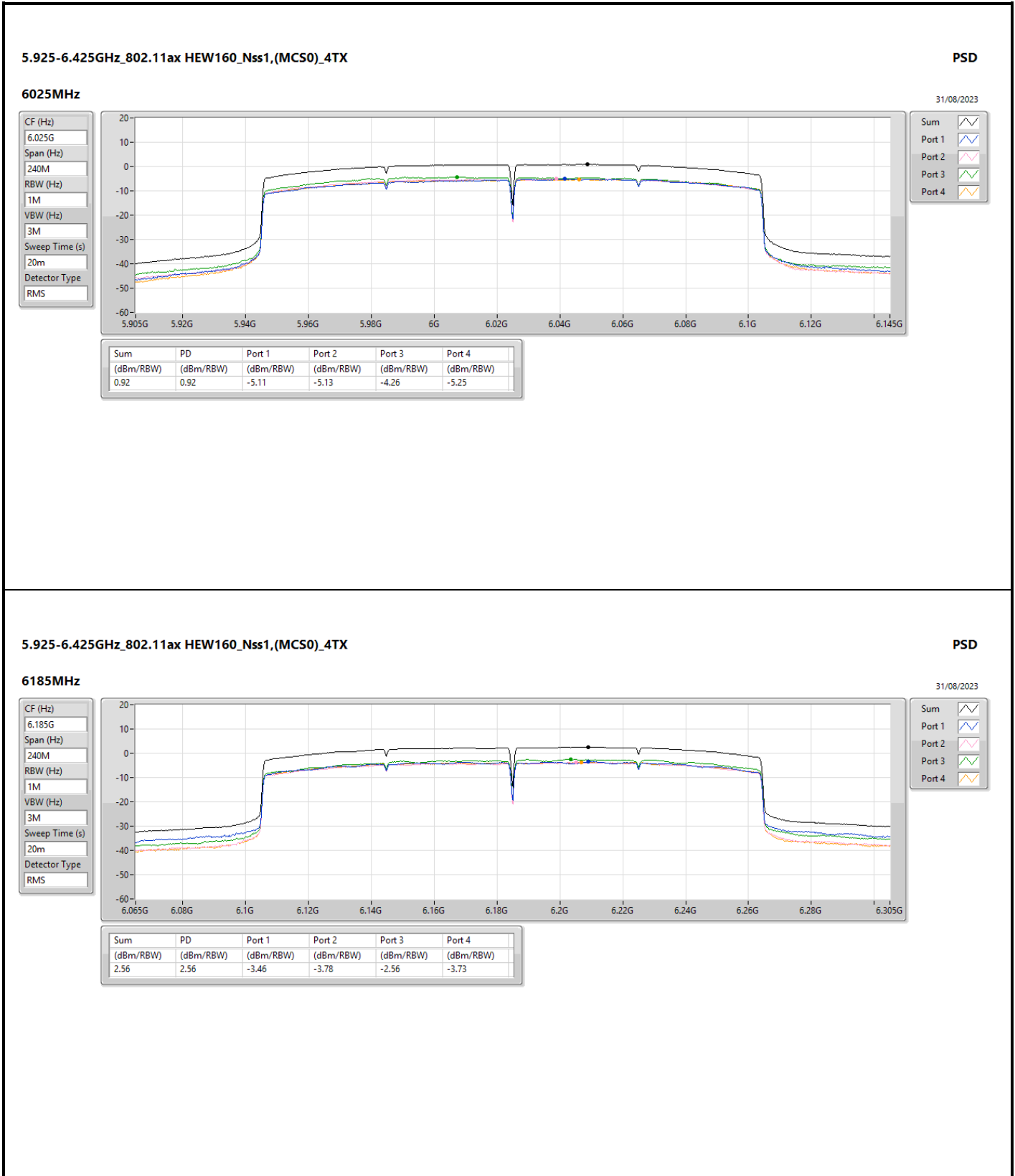


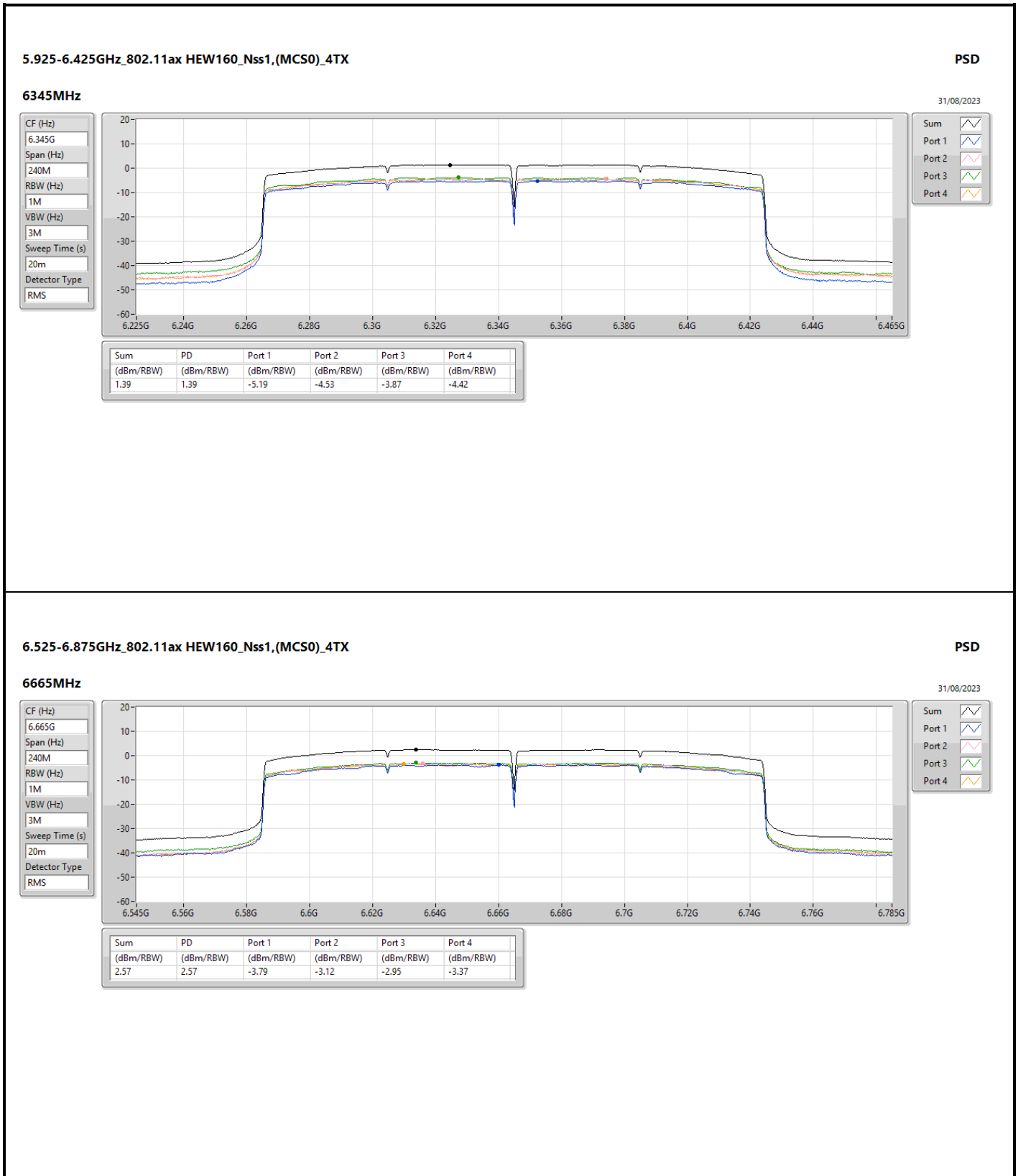














Summary

| Mode | PD (dBm/RBW) | EIRP PD (dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.925-6.425GHz | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 7.06 | 13.86 |
| 6.525-6.875GHz | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | 6.81 | 13.61 |

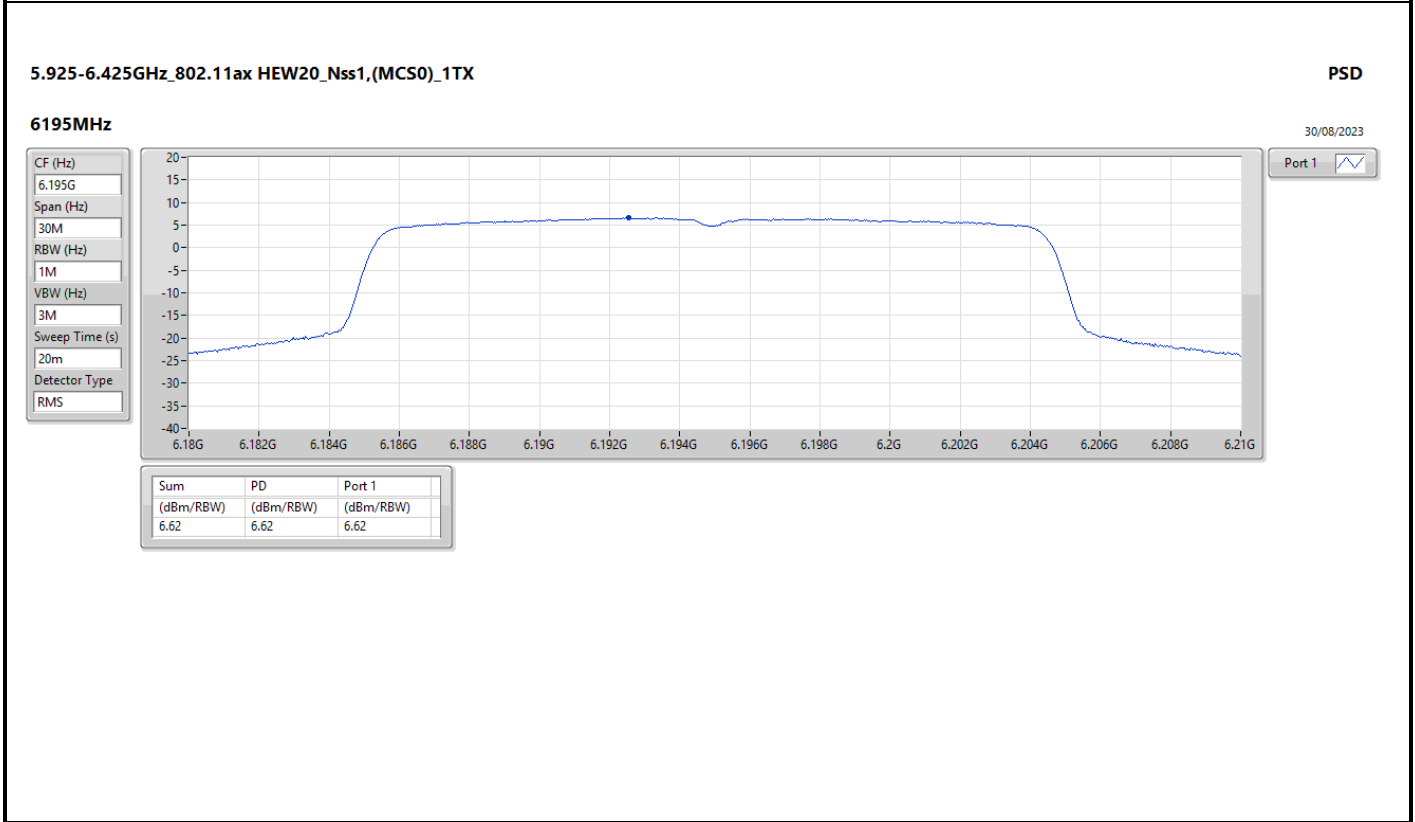
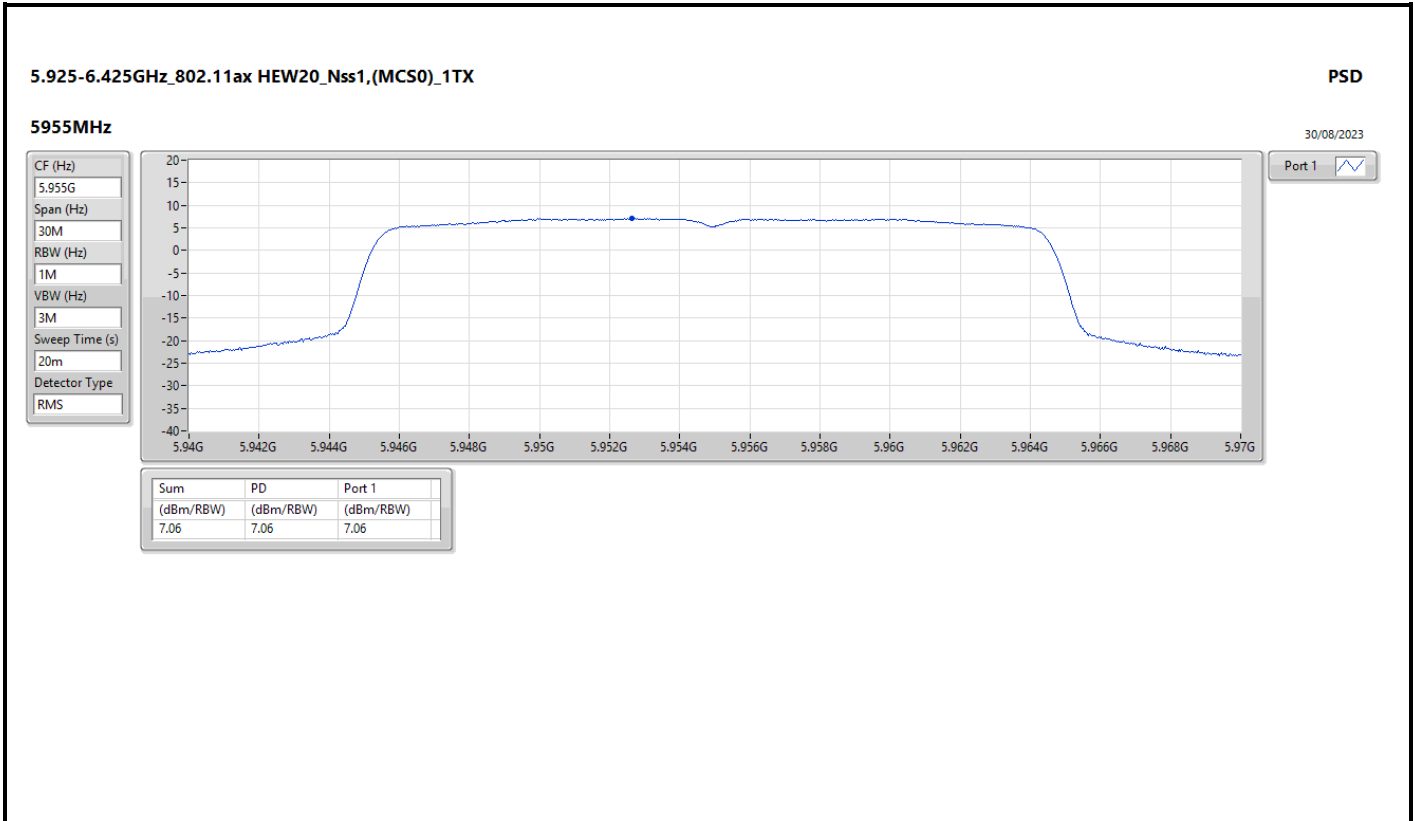
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band:

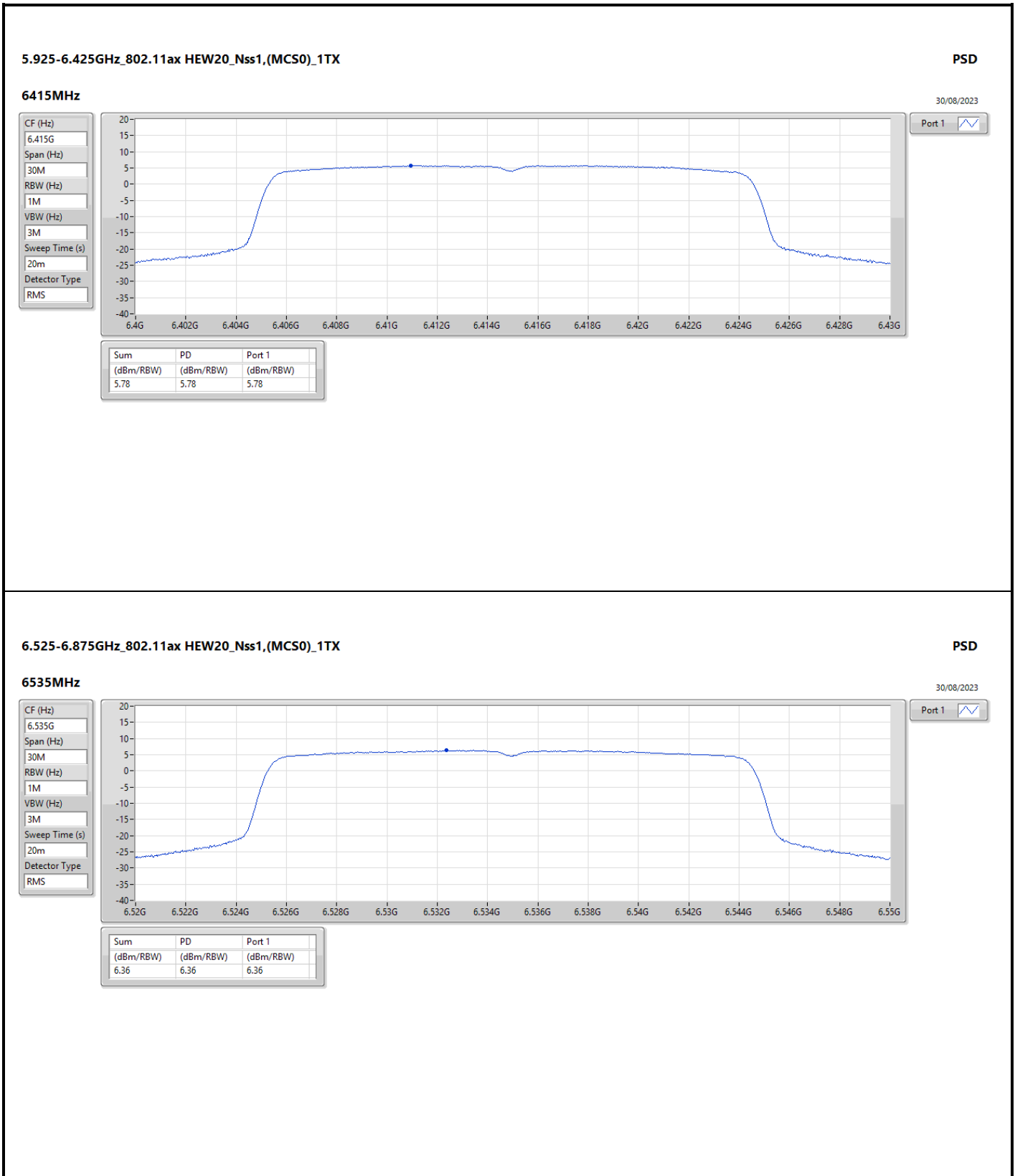


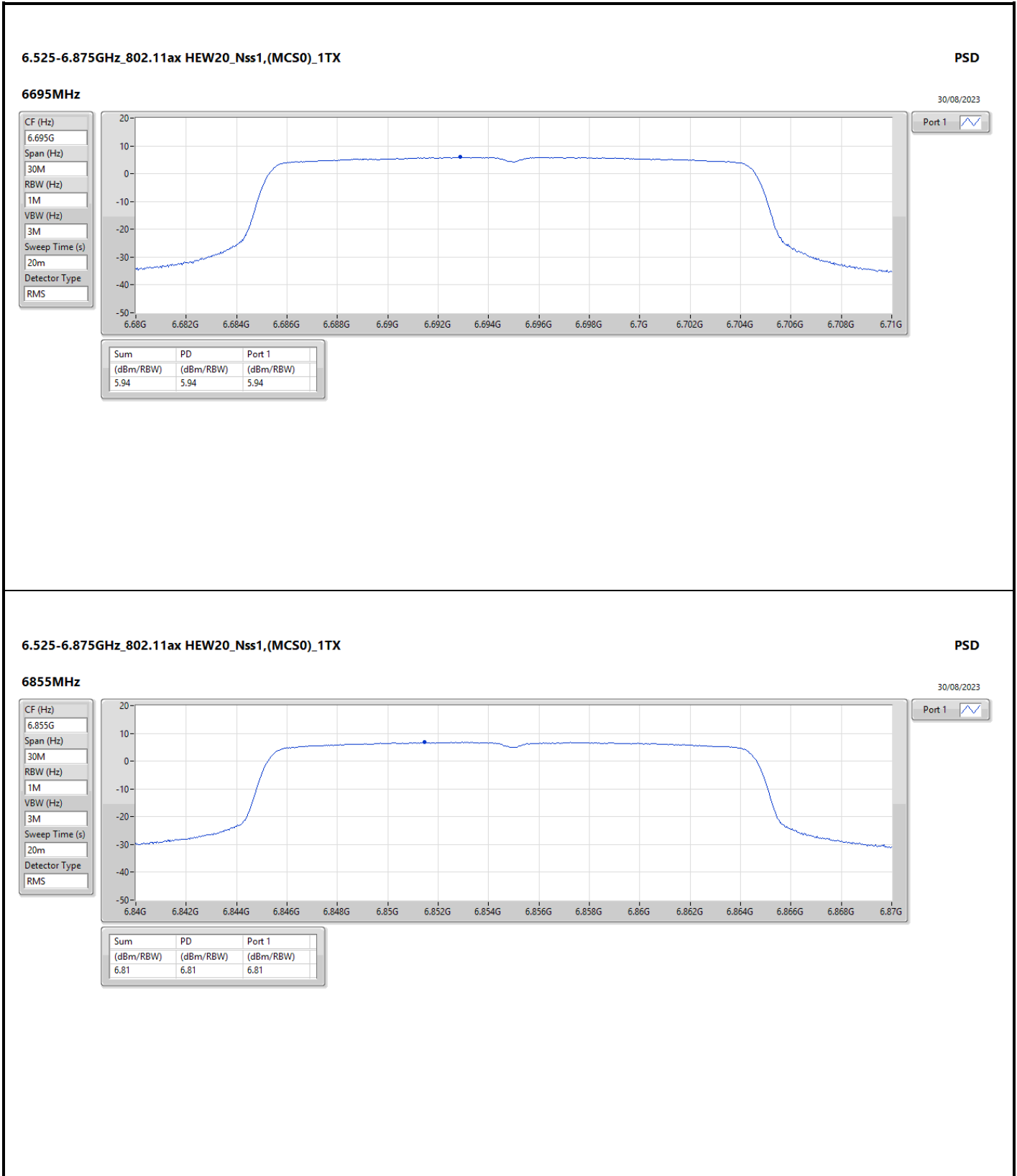
Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) | EIRP PD (dBm/RBW) | EIRP PD Limit (dBm/RBW) |
|--------------------------------|--------|----------|------------------|--------------|--------------------|-------------------|-------------------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - |
| 5955MHz | Pass | 6.80 | 7.06 | 7.06 | Inf | 13.86 | 23.00 |
| 6195MHz | Pass | 6.80 | 6.62 | 6.62 | Inf | 13.42 | 23.00 |
| 6415MHz | Pass | 6.80 | 5.78 | 5.78 | Inf | 12.58 | 23.00 |
| 6535MHz | Pass | 6.80 | 6.36 | 6.36 | Inf | 13.16 | 23.00 |
| 6695MHz | Pass | 6.80 | 5.94 | 5.94 | Inf | 12.74 | 23.00 |
| 6855MHz | Pass | 6.80 | 6.81 | 6.81 | Inf | 13.61 | 23.00 |

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;









Summary

| Mode | Result | F-Start (Hz) | F-Stop (Hz) | Type | EIRP (dBm) | Psum (dBm) | P2 (dBm) | P3 (dBm) | P4 (dBm) | P1 (dBm) | Limit (dBm) | Margin (dB) | DG (dBi) |
|---------------------------------|--------|--------------|-------------|------|------------|------------|----------|----------|----------|----------|-------------|-------------|----------|
| 5.925-6.425GHz | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -70.35 | -76.35 | - | - | - | -76.35 | -41.2 | -29.15 | 6.00 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -66.78 | -73.27 | -75.04 | - | - | -78.03 | -41.2 | -25.58 | 6.49 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -63.06 | -69.55 | -75.40 | -75.70 | -74.43 | -77.21 | -41.20 | -21.86 | 6.49 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -70.36 | -76.36 | - | - | - | -76.36 | -41.2 | -29.16 | 6.00 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -66.32 | -72.81 | -74.40 | - | - | -77.95 | -41.20 | -25.12 | 6.49 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -62.35 | -68.84 | -72.99 | -74.61 | -75.29 | -77.91 | -41.20 | -21.15 | 6.49 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -70.83 | -76.83 | - | - | - | -76.83 | -41.2 | -29.63 | 6.00 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -66.89 | -73.38 | -75.31 | - | - | -77.83 | -41.20 | -25.69 | 6.49 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -63.20 | -69.69 | -75.24 | -75.80 | -74.72 | -77.57 | -41.20 | -22.00 | 6.49 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -71.18 | -77.18 | - | - | - | -77.18 | -41.2 | -29.98 | 6.00 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -66.16 | -72.65 | -74.60 | - | - | -77.06 | -41.20 | -24.96 | 6.49 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -62.70 | -69.19 | -74.42 | -76.13 | -73.57 | -77.92 | -41.20 | -21.50 | 6.49 |
| 6.525-6.875GHz | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -70.60 | -78.25 | - | - | - | -78.25 | -41.2 | -29.40 | 7.65 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -67.71 | -75.36 | -77.42 | - | - | -79.58 | -41.20 | -26.51 | 7.65 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -64.10 | -71.75 | -77.23 | -77.31 | -77.05 | -80.17 | -41.20 | -22.90 | 7.65 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -71.16 | -78.81 | - | - | - | -78.81 | -41.2 | -29.96 | 7.65 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -67.69 | -75.34 | -77.05 | - | - | -80.21 | -41.20 | -26.49 | 7.65 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -64.04 | -71.69 | -77.95 | -77.56 | -76.34 | -79.57 | -41.20 | -22.84 | 7.65 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -52.41 | -60.06 | - | - | - | -60.06 | -27 | -25.41 | 7.65 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -68.26 | -75.91 | -77.56 | - | - | -80.91 | -41.20 | -27.06 | 7.65 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -64.20 | -71.85 | -78.00 | -77.12 | -76.69 | -80.65 | -41.20 | -23.00 | 7.65 |
| 802.11ax HEW160_Nss1,(MCS0)_1TX | Pass | 1G | 8G | AV | -70.98 | -78.63 | - | - | - | -78.63 | -41.2 | -29.78 | 7.65 |
| 802.11ax HEW160_Nss1,(MCS0)_2TX | Pass | 1G | 8G | AV | -67.70 | -75.35 | -77.49 | - | - | -79.45 | -41.20 | -26.50 | 7.65 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | Pass | 1G | 8G | AV | -63.60 | -71.25 | -76.83 | -77.37 | -76.28 | -79.05 | -41.20 | -22.40 | 7.65 |

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



Result

| Mode | Result | F-Start (Hz) | F-Stop (Hz) | Type | Freq (Hz) | DG (dBi) | P1 (dBm) | P2 (dBm) | P2 (dBm) | P4 (dBm) | Psum (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|--------------------------------|--------|--------------|-------------|------|-----------|----------|----------|----------|----------|----------|------------|------------|-------------|-------------|
| 802.11ax HEW20_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5955MHz | Pass | 1G | 8G | AV | 5.05038G | 6.00 | -82.18 | - | - | - | -82.18 | -76.18 | -41.2 | -34.98 |
| 5955MHz | Pass | 1G | 8G | AV | 7.251G | 6.00 | -77 | - | - | - | -77 | -71.00 | -41.2 | -29.80 |
| 5955MHz | Pass | 1G | 8G | PK | 5.046G | 6.00 | -73.03 | - | - | - | -73.03 | -67.03 | -21.2 | -45.83 |
| 5955MHz | Pass | 1G | 8G | PK | 7.258G | 6.00 | -68.19 | - | - | - | -68.19 | -62.19 | -21.2 | -40.99 |
| 6195MHz | Pass | 1G | 8G | AV | 5.04425G | 6.00 | -82.2 | - | - | - | -82.2 | -76.20 | -41.2 | -35.00 |
| 6195MHz | Pass | 1G | 8G | AV | 7.25013G | 6.00 | -76.35 | - | - | - | -76.35 | -70.35 | -41.2 | -29.15 |
| 6195MHz | Pass | 1G | 8G | PK | 5.0285G | 6.00 | -72.1 | - | - | - | -72.1 | -66.10 | -21.2 | -44.90 |
| 6195MHz | Pass | 1G | 8G | PK | 7.26675G | 6.00 | -68.49 | - | - | - | -68.49 | -62.49 | -21.2 | -41.29 |
| 6415MHz | Pass | 1G | 8G | AV | 5.0495G | 6.00 | -81.73 | - | - | - | -81.73 | -75.73 | -41.2 | -34.53 |
| 6415MHz | Pass | 1G | 8G | AV | 7.25538G | 6.00 | -77.24 | - | - | - | -77.24 | -71.24 | -41.2 | -30.04 |
| 6415MHz | Pass | 1G | 8G | PK | 5.00675G | 6.00 | -72.02 | - | - | - | -72.02 | -66.02 | -21.2 | -44.82 |
| 6415MHz | Pass | 1G | 8G | PK | 7.26063G | 6.00 | -69.3 | - | - | - | -69.3 | -63.30 | -21.2 | -42.10 |
| 6535MHz | Pass | 1G | 8G | AV | 5.00138G | 7.65 | -82.06 | - | - | - | -82.06 | -74.41 | -41.2 | -33.21 |
| 6535MHz | Pass | 1G | 8G | AV | 7.2965G | 7.65 | -79.21 | - | - | - | -79.21 | -71.56 | -41.2 | -30.36 |
| 6535MHz | Pass | 1G | 8G | PK | 5.19388G | 7.65 | -57.58 | - | - | - | -57.58 | -49.93 | -7 | -42.93 |
| 6535MHz | Pass | 1G | 8G | PK | 7.25975G | 7.65 | -69.43 | - | - | - | -69.43 | -61.78 | -21.2 | -40.58 |
| 6695MHz | Pass | 1G | 8G | AV | 5.20525G | 7.65 | -65.85 | - | - | - | -65.85 | -58.20 | -27 | -31.20 |
| 6695MHz | Pass | 1G | 8G | AV | 7.26763G | 7.65 | -79.03 | - | - | - | -79.03 | -71.38 | -41.2 | -30.18 |
| 6695MHz | Pass | 1G | 8G | PK | 5.03463G | 7.65 | -71.99 | - | - | - | -71.99 | -64.34 | -21.2 | -43.14 |
| 6695MHz | Pass | 1G | 8G | PK | 7.27813G | 7.65 | -69.85 | - | - | - | -69.85 | -62.20 | -21.2 | -41.00 |
| 6855MHz | Pass | 1G | 8G | AV | 5.55613G | 7.65 | -67.04 | - | - | - | -67.04 | -59.39 | -27 | -32.39 |
| 6855MHz | Pass | 1G | 8G | AV | 7.29563G | 7.65 | -78.25 | - | - | - | -78.25 | -70.60 | -41.2 | -29.40 |
| 6855MHz | Pass | 1G | 8G | PK | 5.004G | 7.65 | -71.43 | - | - | - | -71.43 | -63.78 | -21.2 | -42.58 |
| 6855MHz | Pass | 1G | 8G | PK | 7.286G | 7.65 | -70.02 | - | - | - | -70.02 | -62.37 | -21.2 | -41.17 |
| 802.11ax HEW40_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5965MHz | Pass | 1G | 8G | AV | 5.04425G | 6.00 | -82.16 | - | - | - | -82.16 | -76.16 | -41.2 | -34.96 |
| 5965MHz | Pass | 1G | 8G | AV | 7.25625G | 6.00 | -76.36 | - | - | - | -76.36 | -70.36 | -41.2 | -29.16 |
| 5965MHz | Pass | 1G | 8G | PK | 5.00225G | 6.00 | -73 | - | - | - | -73 | -67.00 | -21.2 | -45.80 |
| 5965MHz | Pass | 1G | 8G | PK | 7.27813G | 6.00 | -68.13 | - | - | - | -68.13 | -62.13 | -21.2 | -40.93 |
| 6205MHz | Pass | 1G | 8G | AV | 5.025G | 6.00 | -82.36 | - | - | - | -82.36 | -76.36 | -41.2 | -35.16 |
| 6205MHz | Pass | 1G | 8G | AV | 7.25338G | 6.00 | -77.59 | - | - | - | -77.59 | -71.59 | -41.2 | -30.39 |
| 6205MHz | Pass | 1G | 8G | PK | 5.032G | 6.00 | -72.97 | - | - | - | -72.97 | -66.97 | -21.2 | -45.77 |
| 6205MHz | Pass | 1G | 8G | PK | 7.251G | 6.00 | -67.92 | - | - | - | -67.92 | -61.92 | -21.2 | -40.72 |
| 6405MHz | Pass | 1G | 8G | AV | 5.01013G | 6.00 | -82 | - | - | - | -82 | -76.00 | -41.2 | -34.80 |
| 6405MHz | Pass | 1G | 8G | AV | 7.26675G | 6.00 | -77.53 | - | - | - | -77.53 | -71.53 | -41.2 | -30.33 |
| 6405MHz | Pass | 1G | 8G | PK | 5.0285G | 6.00 | -73.29 | - | - | - | -73.29 | -67.29 | -21.2 | -46.09 |
| 6405MHz | Pass | 1G | 8G | PK | 7.25625G | 6.00 | -68.01 | - | - | - | -68.01 | -62.01 | -21.2 | -40.81 |
| 6565MHz | Pass | 1G | 8G | AV | 5.01975G | 7.65 | -81.82 | - | - | - | -81.82 | -74.17 | -41.2 | -32.97 |
| 6565MHz | Pass | 1G | 8G | AV | 7.2965G | 7.65 | -78.81 | - | - | - | -78.81 | -71.16 | -41.2 | -29.96 |
| 6565MHz | Pass | 1G | 8G | PK | 5.00663G | 7.65 | -73.22 | - | - | - | -73.22 | -65.57 | -21.2 | -44.37 |
| 6565MHz | Pass | 1G | 8G | PK | 7.26675G | 7.65 | -70.03 | - | - | - | -70.03 | -62.38 | -21.2 | -41.18 |
| 6685MHz | Pass | 1G | 8G | AV | 5.02763G | 7.65 | -82.04 | - | - | - | -82.04 | -74.39 | -41.2 | -33.19 |
| 6685MHz | Pass | 1G | 8G | AV | 7.2755G | 7.65 | -79.14 | - | - | - | -79.14 | -71.49 | -41.2 | -30.29 |
| 6685MHz | Pass | 1G | 8G | PK | 5.00138G | 7.65 | -72 | - | - | - | -72 | -64.35 | -21.2 | -43.15 |
| 6685MHz | Pass | 1G | 8G | PK | 7.2685G | 7.65 | -69.56 | - | - | - | -69.56 | -61.91 | -21.2 | -40.71 |
| 6845MHz | Pass | 1G | 8G | AV | 5.00663G | 7.65 | -81.8 | - | - | - | -81.8 | -74.15 | -41.2 | -32.95 |
| 6845MHz | Pass | 1G | 8G | AV | 7.26588G | 7.65 | -79.15 | - | - | - | -79.15 | -71.50 | -41.2 | -30.30 |
| 6845MHz | Pass | 1G | 8G | PK | 5.032G | 7.65 | -73.25 | - | - | - | -73.25 | -65.60 | -21.2 | -44.40 |
| 6845MHz | Pass | 1G | 8G | PK | 7.2965G | 7.65 | -69.71 | - | - | - | -69.71 | -62.06 | -21.2 | -40.86 |
| 802.11ax HEW80_Nss1,(MCS0)_1TX | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5985MHz | Pass | 1G | 8G | AV | 5.01188G | 6.00 | -81.93 | - | - | - | -81.93 | -75.93 | -41.2 | -34.73 |
| 5985MHz | Pass | 1G | 8G | AV | 7.2545G | 6.00 | -76.83 | - | - | - | -76.83 | -70.83 | -41.2 | -29.63 |
| 5985MHz | Pass | 1G | 8G | PK | 5.00313G | 6.00 | -72.4 | - | - | - | -72.4 | -66.40 | -21.2 | -45.20 |
| 5985MHz | Pass | 1G | 8G | PK | 7.27025G | 6.00 | -68.02 | - | - | - | -68.02 | -62.02 | -21.2 | -40.82 |
| 6225MHz | Pass | 1G | 8G | AV | 5.0285G | 6.00 | -81.57 | - | - | - | -81.57 | -75.57 | -41.2 | -34.37 |
| 6225MHz | Pass | 1G | 8G | AV | 7.251G | 6.00 | -77.25 | - | - | - | -77.25 | -71.25 | -41.2 | -30.05 |
| 6225MHz | Pass | 1G | 8G | PK | 5.018G | 6.00 | -73.17 | - | - | - | -73.17 | -67.17 | -21.2 | -45.97 |
| 6225MHz | Pass | 1G | 8G | PK | 7.25713G | 6.00 | -67.98 | - | - | - | -67.98 | -61.98 | -21.2 | -40.78 |
| 6385MHz | Pass | 1G | 8G | AV | 5.00663G | 6.00 | -82.35 | - | - | - | -82.35 | -76.35 | -41.2 | -35.15 |
| 6385MHz | Pass | 1G | 8G | AV | 7.2965G | 6.00 | -77.67 | - | - | - | -77.67 | -71.67 | -41.2 | -30.47 |
| 6385MHz | Pass | 1G | 8G | PK | 5.0215G | 6.00 | -72.99 | - | - | - | -72.99 | -66.99 | -21.2 | -45.79 |
| 6385MHz | Pass | 1G | 8G | PK | 7.26325G | 6.00 | -69.14 | - | - | - | -69.14 | -63.14 | -21.2 | -41.94 |
| 6625MHz | Pass | 1G | 8G | AV | 2.421G | 7.65 | -60.06 | - | - | - | -60.06 | -52.41 | -27 | -25.41 |
| 6625MHz | Pass | 1G | 8G | AV | 5.025G | 7.65 | -82.27 | - | - | - | -82.27 | -74.62 | -41.2 | -33.42 |
| 6625MHz | Pass | 1G | 8G | AV | 7.2965G | 7.65 | -77.83 | - | - | - | -77.83 | -70.18 | -41.2 | -28.98 |
| 6625MHz | Pass | 1G | 8G | PK | 5.0145G | 7.65 | -71.97 | - | - | - | -71.97 | -64.32 | -21.2 | -43.12 |
| 6625MHz | Pass | 1G | 8G | PK | 7.31225G | 7.65 | -70.69 | - | - | - | -70.69 | -63.04 | -21.2 | -41.84 |
| 6705MHz | Pass | 1G | 8G | AV | 5.01188G | 7.65 | -82.02 | - | - | - | -82.02 | -74.37 | -41.2 | -33.17 |