FCC RADIO TEST REPORT

FCC ID	:	LDK-SMST9105AXW
Equipment	:	Catalyst 9105AX 802.11ax Access Point
Brand Name	:	Cisco
Model Name	:	C9105AXW-B, C9105AXW-C, C9105AXW-D, C9105AXW-F, C9105AXW-N, C9105AXW-S, C9105AXW-K, C9105AXW-x (Refer to section 1.1.5 for more details)
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 Feb. 27, 2020, and testing was started from Mar. 05, 2020 and completed on May 20, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR992017-02AC	01	Initial issue of report	May 29, 2020

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer. 2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Sandy Chuang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5850	a20, n (HT20), ac (VHT20), ax (HEW20)	5745-5825	149-165 [5]
5725-5850	a40, n (HT40), ac (VHT40), ax (HEW40)	5755-5795	151-159 [2]
5725-5850	a80, n (HT80), ac (VHT80), ax (HEW80)	5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11a20	20	1TX, 2TX
5.725-5.85GHz	802.11a20-BF	20	2TX
5.725-5.85GHz	802.11n HT20	20	1TX, 2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	1TX, 2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	1TX, 2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11a40	40	1TX, 2TX
5.725-5.85GHz	802.11a40-BF	40	2TX
5.725-5.85GHz	802.11n HT40	40	1TX, 2TX
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	1TX, 2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	1TX, 2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11a80	80	1TX, 2TX
5.725-5.85GHz	802.11a80-BF	80	2TX
5.725-5.85GHz	802.11n HT80	80	1TX, 2TX
5.725-5.85GHz	802.11n HT80-BF	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	1TX, 2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	1TX, 2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	PEGATRON	WIFI_1 ant	PIFA	I-PEX	Note 1
2	2	PEGATRON	WIFI_2 ant	PIFA	I-PEX	
3	1	PEGATRON	BLE ant	PIFA	I-PEX	

Note 1:

Ant.	Port	WLAN 2.4GHz Gain (dBi)							
		2400 MHz	2412 MHz	2437 MHz	2442 MHz	2450 MHz	2462 MHz	2472 MHz	2500 MHz
1	1	2.02	1.81	2.25	2.37	2.51	2.48	2.20	2.14
2	2	1.55	1.63	2.10	2.23	2.20	2.07	1.75	1.99

Ant.	Port	WLAN 5GHz Gain (dBi)							
		5150 MHz	5250 MHz	5350 MHz	5470 MHz	5500 MHz	5600 MHz	5725 MHz	5850 MHz
1	1	4.91	4.97	4.88	4.93	4.82	4.73	4.78	4.93
2	2	4.58	4.76	4.60	4.41	4.35	4.25	4.40	4.56

Ant.	Port	BT/Zigbee Gain (dBi)							
		2400 MHz	2412 MHz	2437 MHz	2442 MHz	2450 MHz	2462 MHz	2472 MHz	2500 MHz
3	1	2.47	2.45	2.55	2.70	2.69	2.64	2.58	2.62

Note 2: The above information was declared by manufacturer.

Note 3:

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax (1TX/1RX):

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

For IEEE 802.11 b/g/n/ax (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

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

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function:

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

For Zigbee function:

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

1.1.3 Mode Test Duty Cycle

<2T1S>

Non-beamforming mode

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
11a20_Nss1,(6Mbps)_2TX	0.99	0.04	2.384m	10
11a40_Nss1,(6Mbps)_2TX	0.99	0.04	2.384m	10
11a80_Nss1,(6Mbps)_2TX	0.99	0.04	2.384m	10
802.11ac VHT20_Nss1,(MCS0)_2TX	0.987	0.06	2.224m	10
802.11ac VHT40_Nss1,(MCS0)_2TX	0.979	0.09	1.093m	1k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.954	0.2	528.438u	3k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.984	0.07	1.711m	10
802.11ax HEW40_Nss1,(MCS0)_2TX	0.974	0.11	885u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.945	0.25	453.75u	3k

beamforming mode

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
11a20-BF_Nss1,(6Mbps)_2TX	0.99	0.04	2.384m	10
11a40-BF_Nss1,(6Mbps)_2TX	0.99	0.04	2.384m	10
11a80-BF_Nss1,(6Mbps)_2TX	0.99	0.04	2.384m	10
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	0.987	0.06	2.224m	10
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	0.977	0.1	1.093m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.954	0.2	528.438u	3k
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.984	0.07	1.711m	10
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.974	0.11	885u	3k
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.945	0.25	453.75u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/ax in 2.4GHz and a/n/ac/ax in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	17.18.2 (r782430 WLTEST)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

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

Model Name	Description
C9105AXW-B	All the models are identical, the difference model for difference marketing strategy.
C9105AXW-C	
C9105AXW-D	
C9105AXW-F	
C9105AXW-N	
C9105AXW-S	
C9105AXW-K	
C9105AXW-x (x can be A-Z, regional country code)	

From the above models, model: C9105AXW-B was selected as representative model for the test and its data was recorded in this report.

1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL :	886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Owen Hsu	20.5-22°C / 49-53%	Mar. 05, 2020~ Mar. 27, 2020
Radiated (Cabinet)	03CH05-CB	Stim Sun	21.3-23.2°C / 55-58%	Mar. 10, 2020~ May 05, 2020
Radiated (Radiated Emission Co-location)	03CH05-CB	Stim Sun	21.3-23.2°C / 55-58%	May 20, 2020
AC Conduction	CO01-CB	GN Hou	23~24°C / 63~65%	May 11, 2020

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

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
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

<2T1S>

Non-beamforming mode

Mode	Power Setting
11a20_Nss1,(6Mbps)_2TX	-
5745MHz	17
5785MHz	17
5825MHz	17
11a40_Nss1,(6Mbps)_2TX	-
5755MHz	17
5795MHz	17
11a80_Nss1,(6Mbps)_2TX	-
5775MHz	17
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5745MHz	17
5785MHz	17
5825MHz	17
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5755MHz	17
5795MHz	17
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5775MHz	17
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5745MHz	17
5785MHz	17
5825MHz	17
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5755MHz	17
5795MHz	17
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5775MHz	17

beamforming mode

Mode	Power Setting
11a20,BF_Nss1,(6Mbps)_2TX	-
5745MHz	17
5785MHz	17
5825MHz	17
11a40,BF_Nss1,(6Mbps)_2TX	-
5755MHz	17
5795MHz	17
11a80,BF_Nss1,(6Mbps)_2TX	-
5775MHz	17
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5745MHz	17
5785MHz	17
5825MHz	17
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5755MHz	17
5795MHz	17
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5775MHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5745MHz	17
5785MHz	17
5825MHz	17
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5755MHz	17
5795MHz	17
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5775MHz	17

Note:
- VHT20/VHT40/VHT80 covers HT20/HT40/HT80, due to same modulation. The power setting for 802.11n HT20, HT40 and HT 80 are the same or lower than 802.11ac VHT20, VHT40 and VHT80.
- There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 11n/11ax in 2.4GHz and 11a/11n/11ac/11ax in 5GHz. Both modes have been tested and recorded in this test report.
- The STBC mode covered by 2T2S mode.
- The beamforming mode only evaluate power and power density.
- This function has 1TX/2TX, and only 2TX was test and record in the test report was declared by the manufacturer.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	EUT_2.4GHz + PoE
2	EUT_5GHz + PoE
3	EUT_Bluetooth LE + PoE
4	EUT_Zigbee + PoE
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Unwanted Emissions Unwanted Emissions (Above 1GHz)
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	Y-axis generated the worst result for Unwanted Emission (above 1GHz), thus the measurement will follow this same test configuration.
1	EUT_2.4GHz + PoE in Y axis
2	EUT_5GHz + PoE in Y axis
3	EUT_Bluetooth LE + PoE in Y axis
4	EUT_Zigbee + PoE in Y axis
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX (Cabinet)
	The EUT was performed at X axis, Y axis and Z axis position. The worst case was found at Y axis, thus the measurement will follow this same test configuration.
1	EUT_5G in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
Y-axis generated the worst result for Unwanted Emissions (above 1GHz), thus the measurement will follow this same test configuration.	
1	WLAN 2.4GHz + WLAN 5GHz in Y axis
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth LE
2	WLAN 2.4GHz + WLAN 5GHz + Zigbee
Refer to Sporton Test Report No.: FA992017-02 for Co-location RF Exposure Evaluation.	

Note: It was supplied power by PoE for EUT, and the PoE is for measurement only, would not be marketed.

<For Conducted emissions and Radiated measurement (below 1GHz)>

Equipment	Brand Name	Model Name	FCC ID
PoE	PHIHONG	POE29U-1AT(PL)	N/A

<For other tests>

Equipment	Brand Name	Model Name	FCC ID
PoE	CERIO	POE-G30	N/A

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Remark**
1	Mounting bracket*1	PEGATRON	13BK-30N1601	-
Optional				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Remark**
2	Jumper Cable*1	Tung-Li	1402-00WF000	Non-Shielded, 0.07m
3	Spacer box*1	PEGATRON	13BK-30Q0701	-

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	PHIHONG	POE29U-1AT(PL)	N/A
B	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated (below 1GHz):

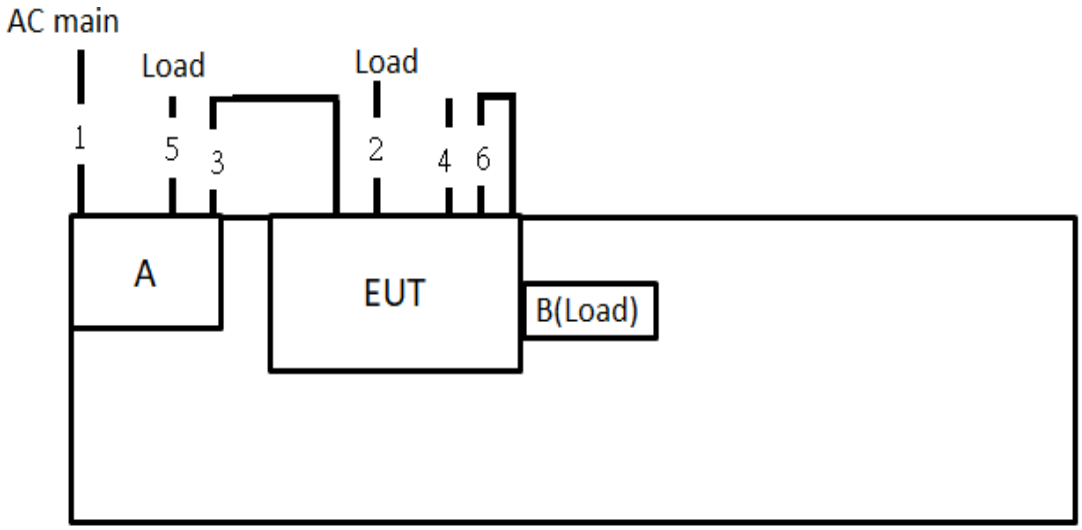
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	PHIHONG	POE29U-1AT(PL)	N/A
B	Notebook	DELL	E4300	N/A

For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	CERIO	POE-G30	N/A
B	Notebook	DELL	E4300	N/A

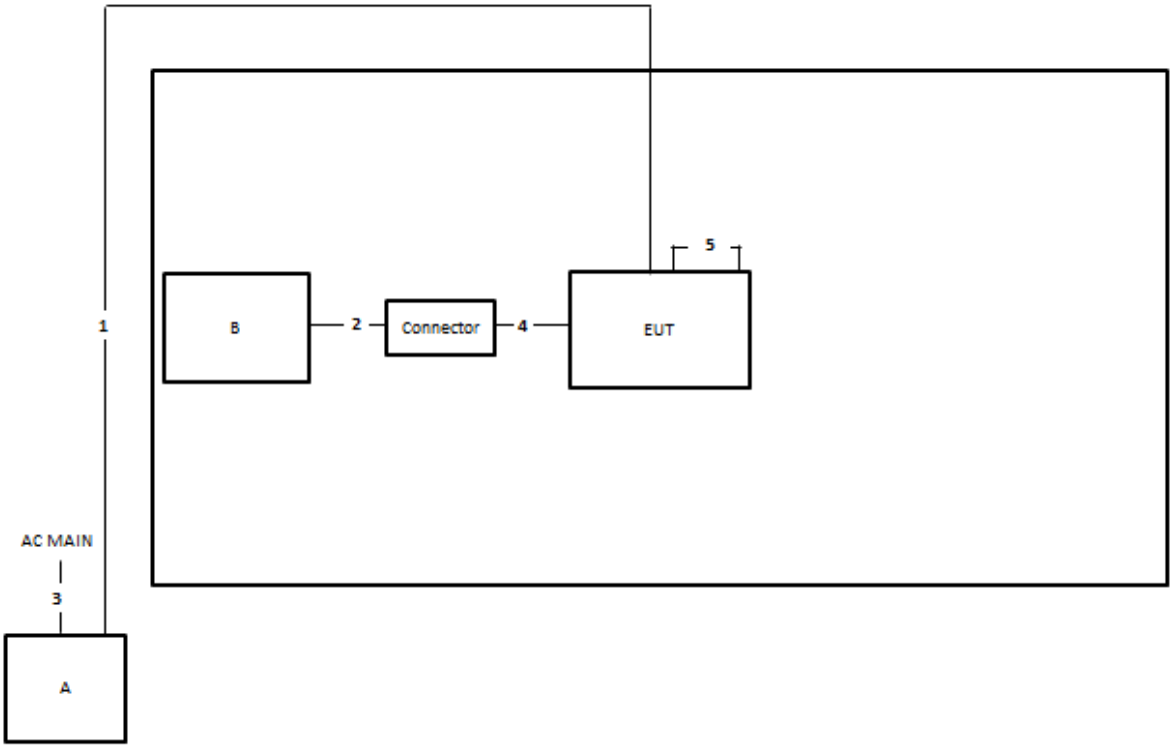
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable*5	No	1.5m
3	RJ-45 cable	No	1.5m
4	Console cable	No	1.8m
5	RJ-45 cable	No	1.5m
6	Jumper cable	No	0.07m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RS232 to USB console cable	No	1.5m
3	Power cable	No	1.75m
4	RS232 to RJ-45 console cable	No	1.9m
5	Jumper cable	No	0.07m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

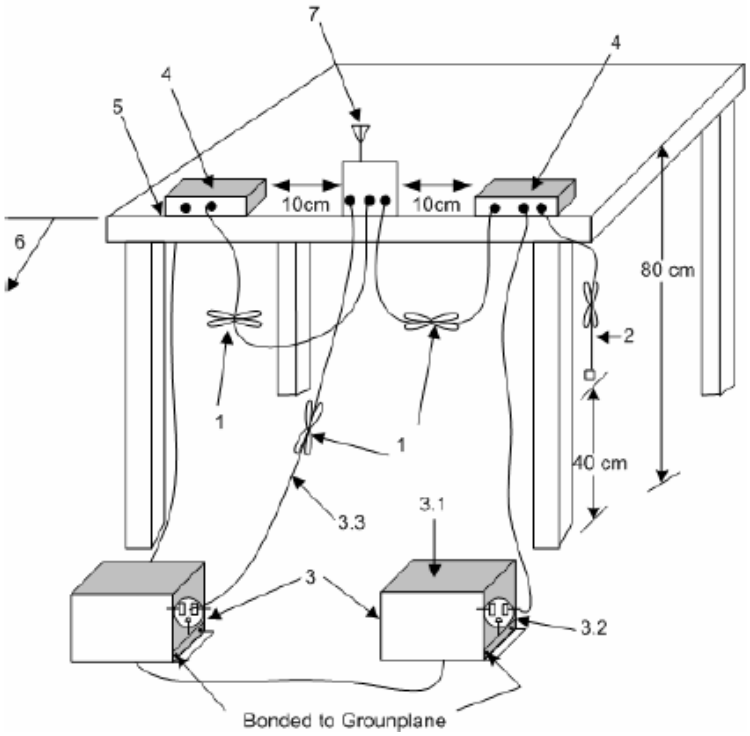
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

3.2.2 Measuring Instruments

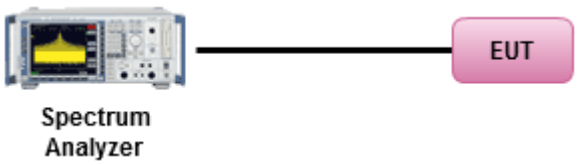
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm]
	▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W If G_{TX} > 23 dBi, then P_{Out} = 30 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 23 dBi, then P_{Out} = 17 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6)..
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
	▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for 0° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

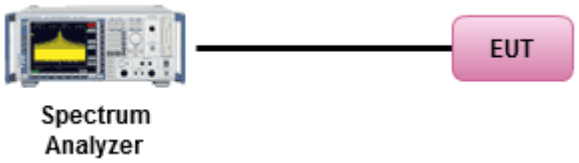
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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

linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

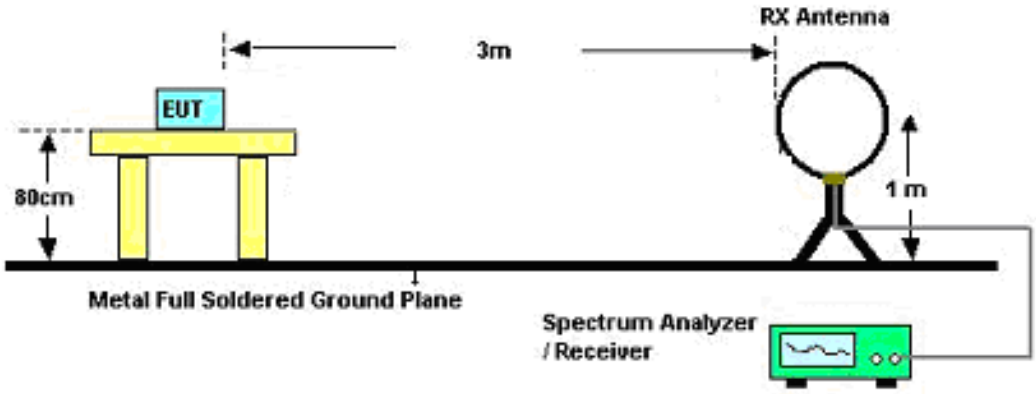
Test Method			
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies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

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

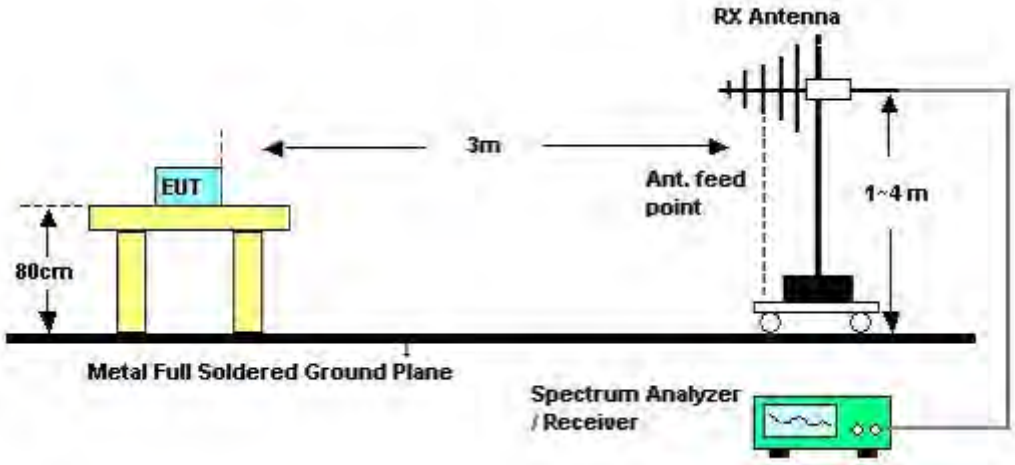
3.5.4 Test Setup

Radiated - Unwanted Emissions

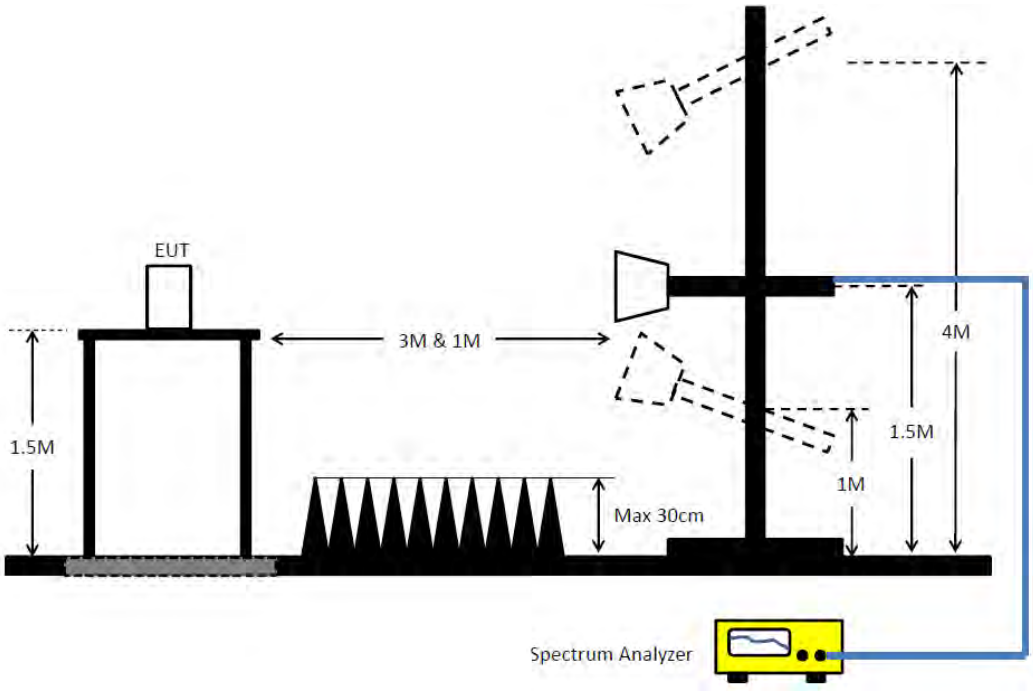
9kHz ~30MHz



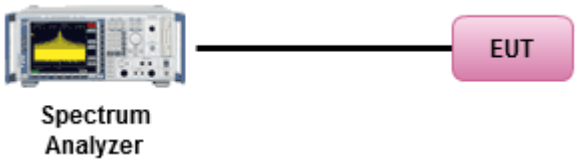
30MHz~1GHz



Above 1GHz



Conducted - Unwanted Emissions



3.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

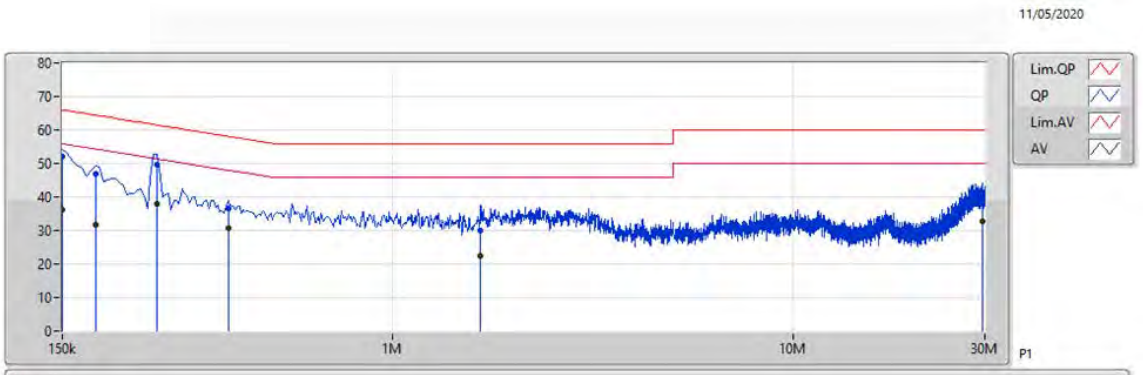
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Mar. 20, 2019	Mar. 19, 2020	Radiation (03CH05-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Mar. 19, 2020	Mar. 18, 2021	Radiation (03CH05-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 19, 2019	Mar. 18, 2020	Radiation (03CH05-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 11, 2020	Mar. 10, 2021	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 18, 2019	Nov. 17, 2020	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)

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

NCR means Non-Calibration required.

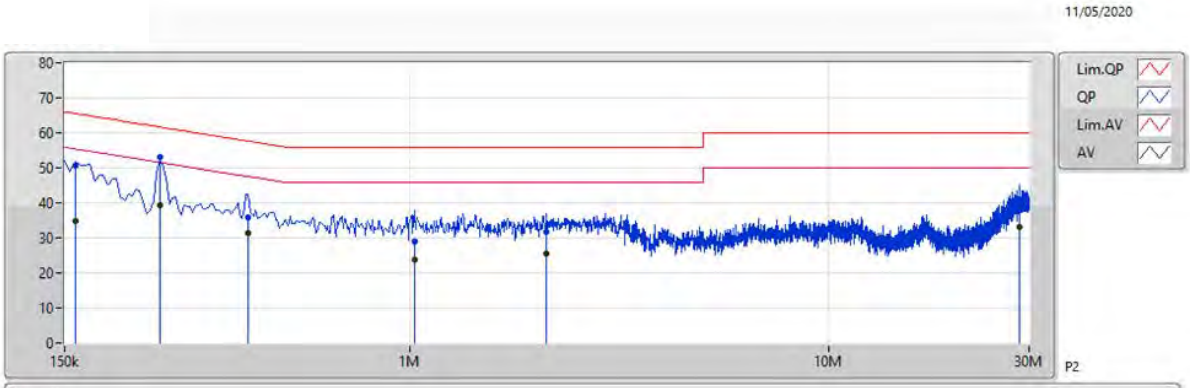
AC Power-line Conducted Emissions Result			
Operating Mode	3	**Power Phase**	Line
Operating Function	CTX		



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	52.09	66.00	-13.91	9.90	Line	-	42.19	0.05	0.06	9.79
AV	150k	36.09	56.00	-19.91	9.90	Line	-	26.19	0.05	0.06	9.79
QP	181.5k	46.94	64.41	-17.47	9.89	Line	-	37.05	0.04	0.06	9.79
AV	181.5k	31.80	54.41	-22.61	9.89	Line	-	21.91	0.04	0.06	9.79
QP	258k	49.62	61.49	-11.87	9.90	Line	"Worst"	39.72	0.04	0.06	9.80
AV	258k	37.95	51.49	-13.54	9.90	Line	-	28.05	0.04	0.06	9.80
QP	388.5k	36.56	58.10	-21.54	9.91	Line	-	26.65	0.04	0.06	9.81
AV	388.5k	30.80	48.10	-17.30	9.91	Line	-	20.89	0.04	0.06	9.81
QP	1.658M	30.00	56.00	-26.00	10.00	Line	-	20.00	0.06	0.11	9.83
AV	1.658M	22.28	46.00	-23.72	10.00	Line	-	12.28	0.06	0.11	9.83
QP	29.688M	39.45	60.00	-20.55	10.66	Line	-	28.79	0.30	0.31	10.05
AV	29.688M	32.64	50.00	-17.36	10.66	Line	-	21.98	0.30	0.31	10.05

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	3	**Power Phase**	Neutral
Operating Function	CTX		



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	50.66	65.52	-14.86	9.89	Neutral	-	40.77	0.04	0.06	9.79
AV	159k	34.93	55.52	-20.59	9.89	Neutral	-	25.04	0.04	0.06	9.79
QP	253.5k	53.12	61.64	-8.52	9.90	Neutral	"Worst"	43.22	0.04	0.06	9.80
AV	253.5k	39.23	51.64	-12.41	9.90	Neutral	-	29.33	0.04	0.06	9.80
QP	411k	35.74	57.63	-21.89	9.91	Neutral	-	25.83	0.04	0.06	9.81
AV	411k	31.25	47.63	-16.38	9.91	Neutral	-	21.34	0.04	0.06	9.81
QP	1.023M	29.12	56.00	-26.88	9.97	Neutral	-	19.15	0.06	0.09	9.82
AV	1.023M	23.73	46.00	-22.27	9.97	Neutral	-	13.76	0.06	0.09	9.82
QP	2.117M	31.69	56.00	-24.31	10.02	Neutral	-	21.67	0.07	0.12	9.83
AV	2.117M	25.56	46.00	-20.44	10.02	Neutral	-	15.54	0.07	0.12	9.83
QP	28.455M	39.93	60.00	-20.07	10.67	Neutral	-	29.26	0.31	0.32	10.04
AV	28.455M	33.17	50.00	-16.83	10.67	Neutral	-	22.50	0.31	0.32	10.04

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

<2T1S>

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	16.38M	16.792M	16M8D1D	16.32M	16.702M
11a40_Nss1,(6Mbps)_2TX	36.42M	36.462M	36M5D1D	36.3M	36.342M
11a80_Nss1,(6Mbps)_2TX	76.32M	76.162M	76M2D1D	76.32M	75.922M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.61M	18.021M	18M0D1D	17.58M	17.931M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	36.402M	36M4D1D	36.3M	36.282M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.08M	76.042M	76M0D1D	75.96M	75.682M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.02M	19.04M	19M0D1D	18.9M	19.01M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.56M	37.661M	37M7D1D	37.56M	37.601M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.04M	77.121M	77M1D1D	76.56M	77.121M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum99% 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

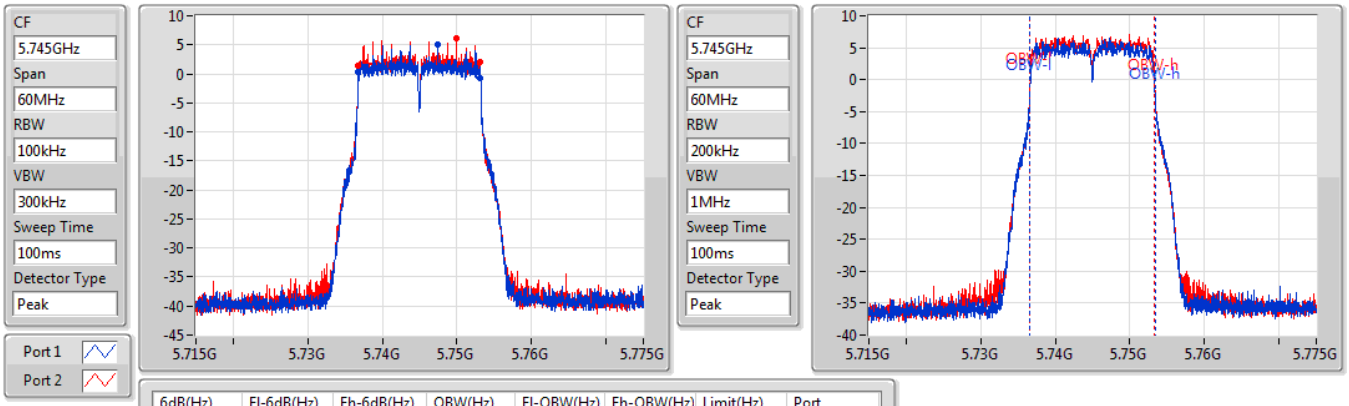
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5745MHz	Pass	500k	16.35M	16.792M	16.32M	16.702M
5785MHz	Pass	500k	16.35M	16.792M	16.38M	16.702M
5825MHz	Pass	500k	16.35M	16.792M	16.35M	16.702M
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5755MHz	Pass	500k	36.36M	36.402M	36.3M	36.342M
5795MHz	Pass	500k	36.36M	36.462M	36.42M	36.402M
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5775MHz	Pass	500k	76.32M	75.922M	76.32M	76.162M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	500k	17.58M	18.021M	17.61M	17.961M
5785MHz	Pass	500k	17.58M	17.991M	17.58M	17.931M
5825MHz	Pass	500k	17.58M	17.961M	17.61M	17.931M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	500k	36.3M	36.402M	36.3M	36.282M
5795MHz	Pass	500k	36.3M	36.402M	36.3M	36.282M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	500k	76.08M	76.042M	75.96M	75.682M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	500k	18.9M	19.04M	18.96M	19.04M
5785MHz	Pass	500k	19.02M	19.04M	18.96M	19.01M
5825MHz	Pass	500k	18.99M	19.04M	18.9M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	500k	37.56M	37.601M	37.56M	37.661M
5795MHz	Pass	500k	37.56M	37.661M	37.56M	37.661M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	500k	77.04M	77.121M	76.56M	77.121M

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;

11a20_Nss1,(6Mbps)_2TX EBW

5745MHz

07/03/2020

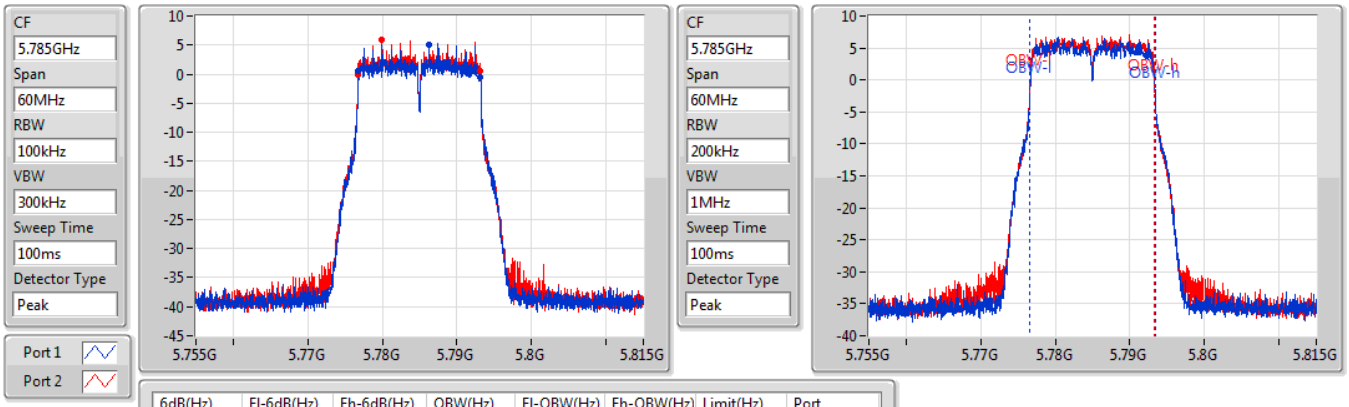


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.73681G	5.75316G	16.792M	5.736604G	5.753396G	500k	1
16.32M	5.73681G	5.75313G	16.702M	5.736634G	5.753336G	500k	2

11a20_Nss1,(6Mbps)_2TX EBW

5785MHz

07/03/2020

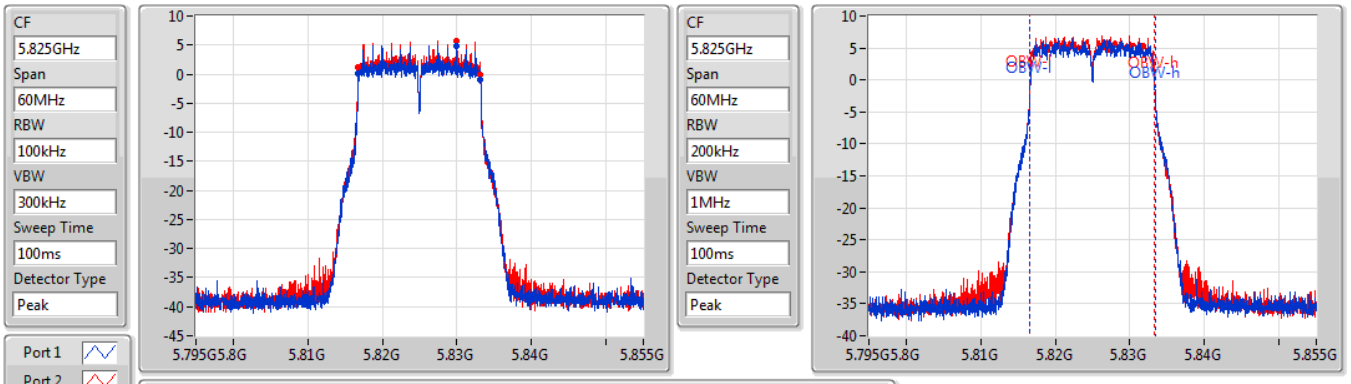


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.77681G	5.79316G	16.792M	5.776604G	5.793396G	500k	1
16.38M	5.77678G	5.79316G	16.702M	5.776634G	5.793336G	500k	2

11a20_Nss1,(6Mbps)_2TX EBW

5825MHz

07/03/2020

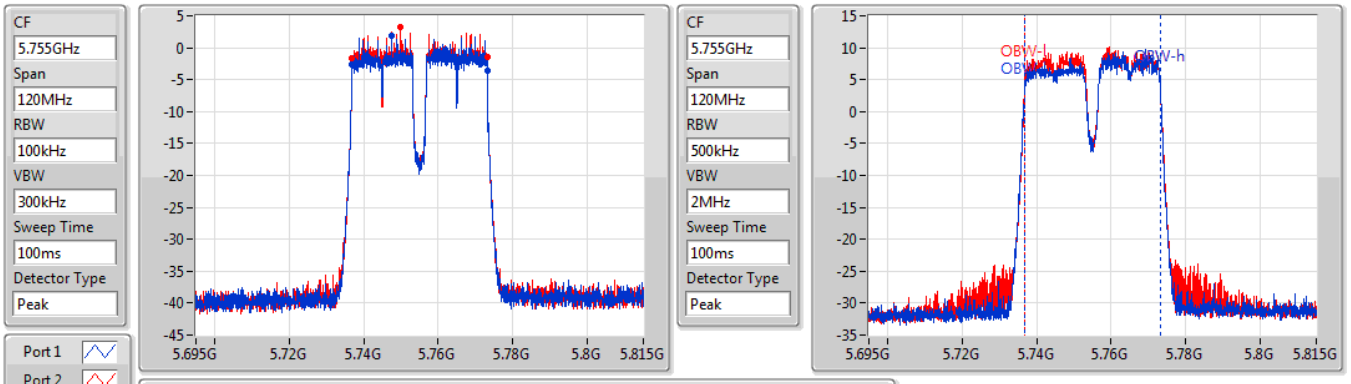


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.81681G	5.83316G	16.792M	5.816604G	5.833396G	500k	1
16.35M	5.81681G	5.83316G	16.702M	5.816634G	5.833336G	500k	2

11a40_Nss1,(6Mbps)_2TX EBW

5755MHz

07/03/2020

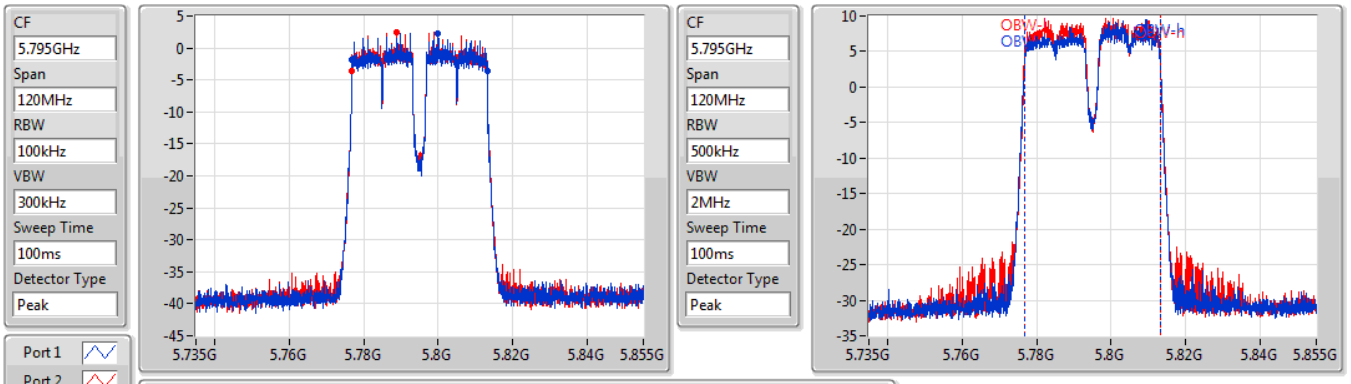


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.36M	5.73682G	5.77318G	36.402M	5.736769G	5.773171G	500k	1
36.3M	5.73682G	5.77312G	36.342M	5.736829G	5.773171G	500k	2

11a40_Nss1,(6Mbps)_2TX EBW

5795MHz

07/03/2020

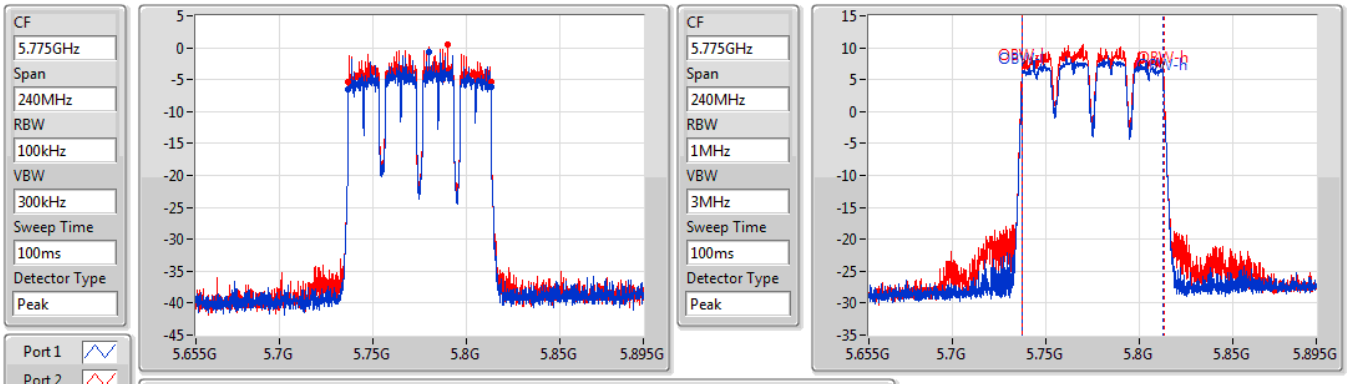


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.36M	5.77682G	5.81318G	36.462M	5.776709G	5.813171G	500k	1
36.42M	5.77676G	5.81318G	36.402M	5.776769G	5.813171G	500k	2

11a80_Nss1,(6Mbps)_2TX EBW

5775MHz

07/03/2020

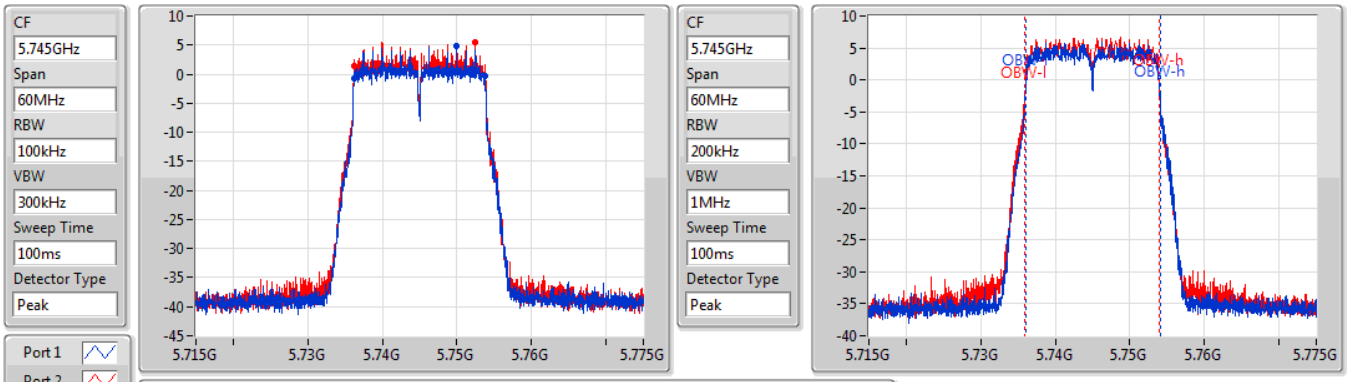


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.32M	5.73684G	5.81316G	75.922M	5.737099G	5.813021G	500k	1
76.32M	5.73684G	5.81316G	76.162M	5.736979G	5.813141G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5745MHz

25/03/2020

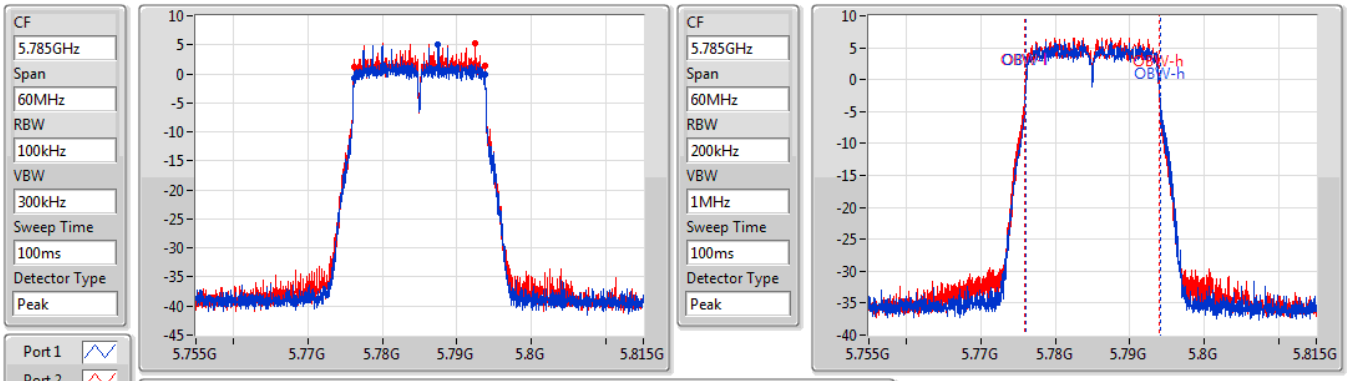


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.73618G	5.75376G	18.021M	5.736034G	5.754055G	500k	1
17.61M	5.73618G	5.75379G	17.961M	5.735975G	5.753936G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5785MHz

25/03/2020

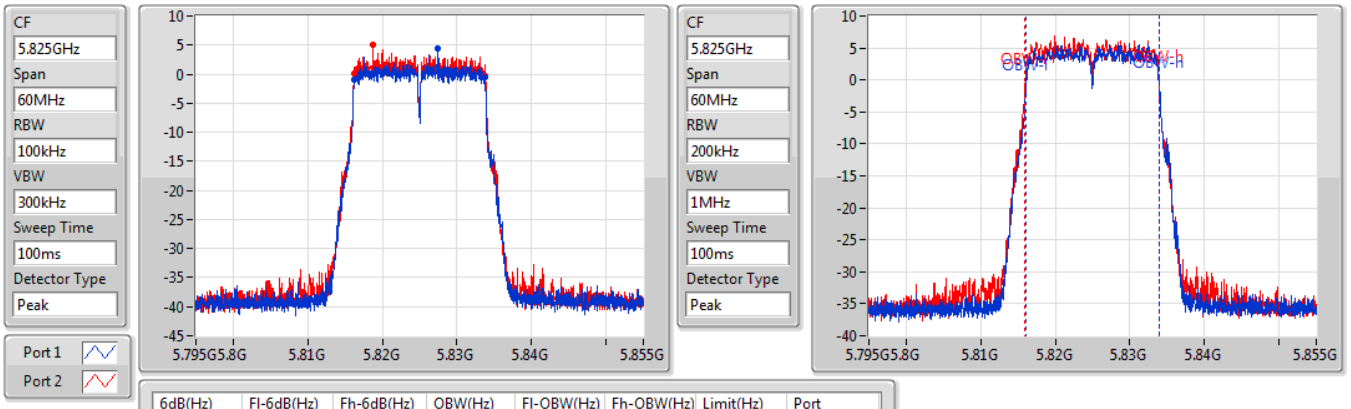


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.77618G	5.79376G	17.991M	5.776034G	5.794025G	500k	1
17.58M	5.77618G	5.79376G	17.931M	5.775975G	5.793906G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5825MHz

25/03/2020

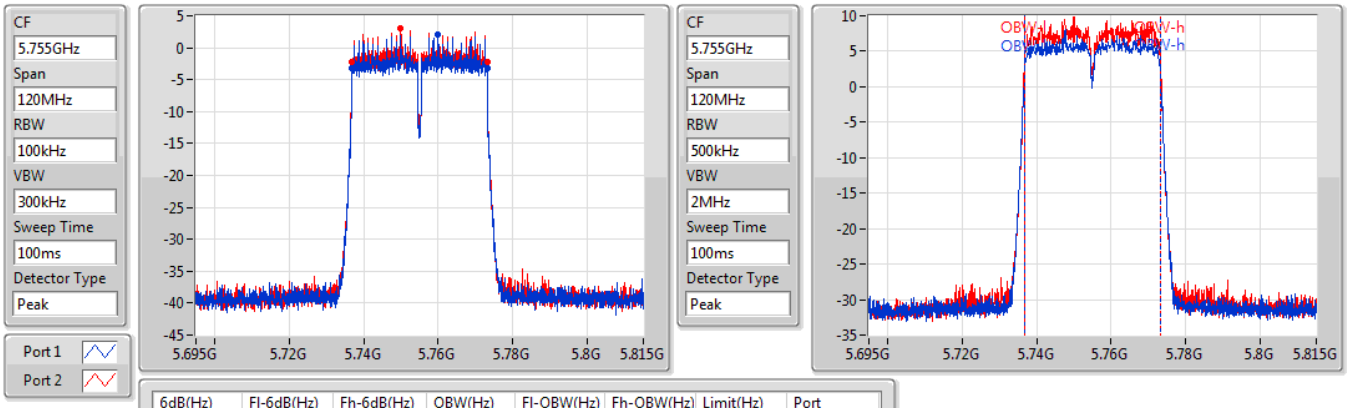


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.81618G	5.83376G	17.961M	5.816034G	5.833996G	500k	1
17.61M	5.81618G	5.83379G	17.931M	5.815975G	5.833906G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5755MHz

25/03/2020

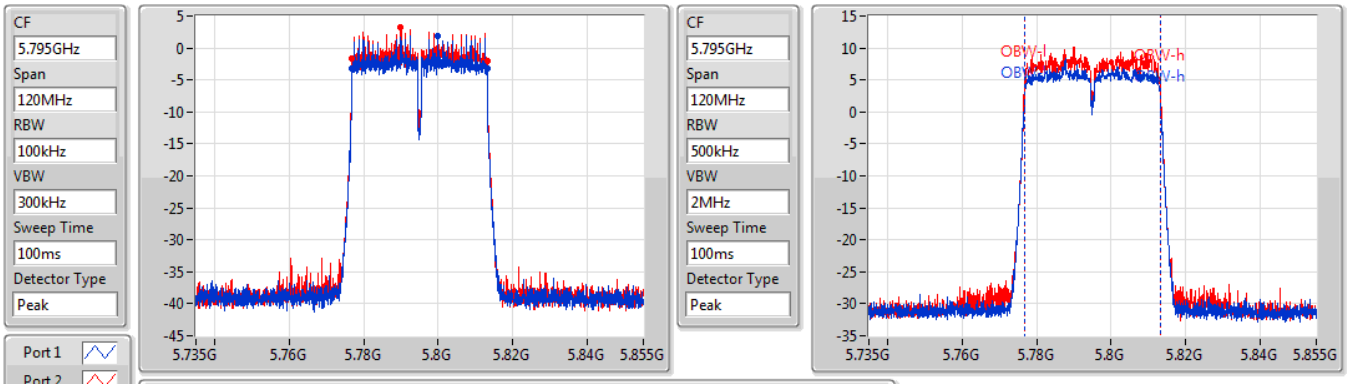


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.73682G	5.77312G	36.402M	5.736769G	5.773171G	500k	1
36.3M	5.73682G	5.77312G	36.282M	5.736829G	5.773111G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5795MHz

25/03/2020

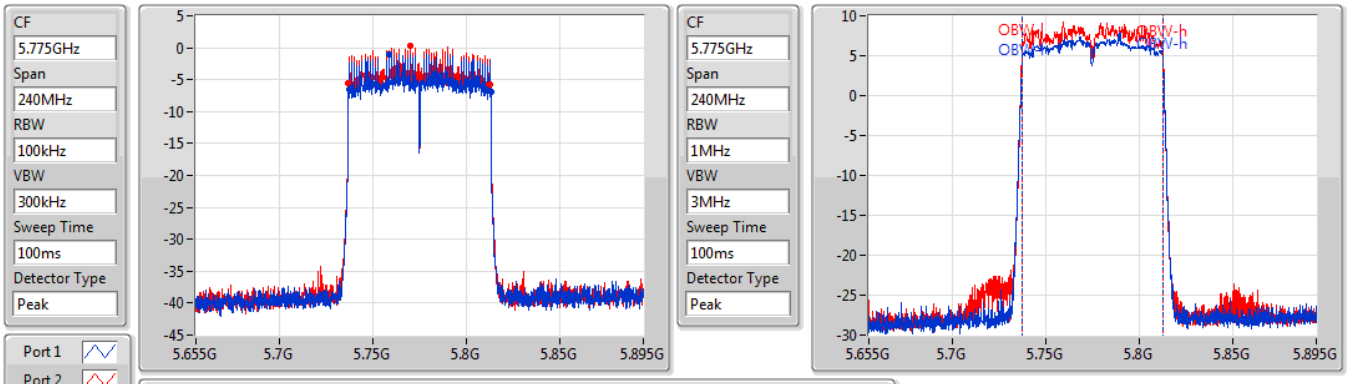


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77682G	5.81312G	36.402M	5.776769G	5.813171G	500k	1
36.3M	5.77682G	5.81312G	36.282M	5.776829G	5.813111G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5775MHz

25/03/2020

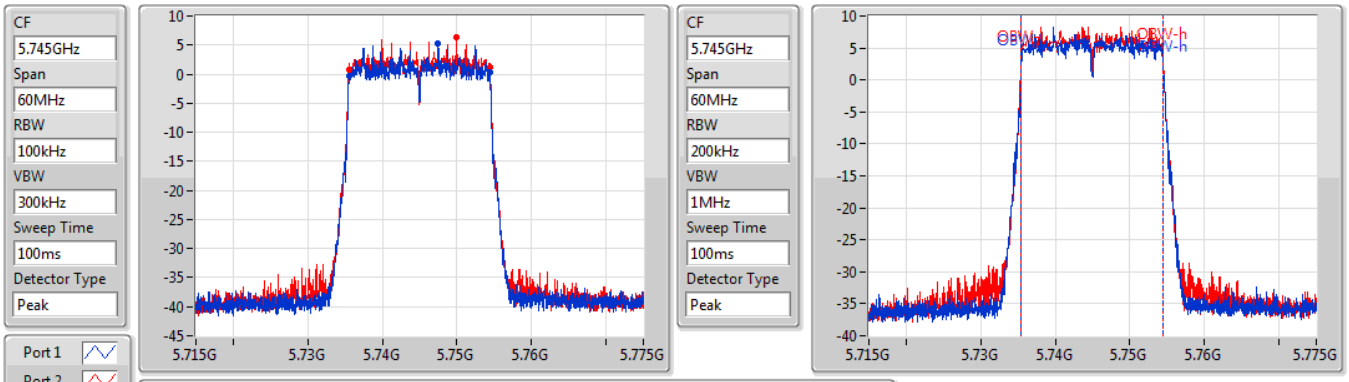


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.08M	5.73708G	5.81316G	76.042M	5.736979G	5.813021G	500k	1
75.96M	5.73684G	5.8128G	75.682M	5.737099G	5.812781G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5745MHz

07/03/2020

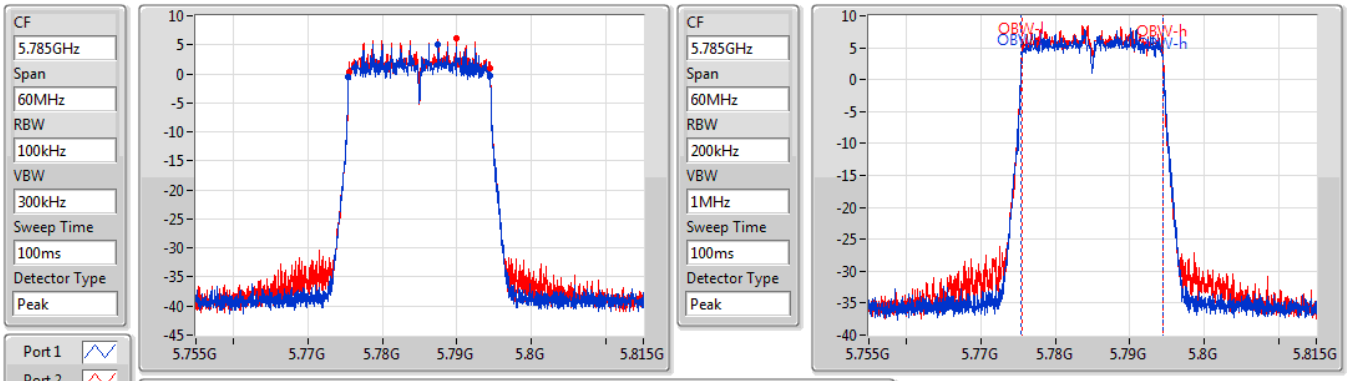


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.9M	5.73555G	5.75445G	19.04M	5.735465G	5.754505G	500k	1
18.96M	5.73549G	5.75445G	19.04M	5.735435G	5.754475G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5785MHz

07/03/2020

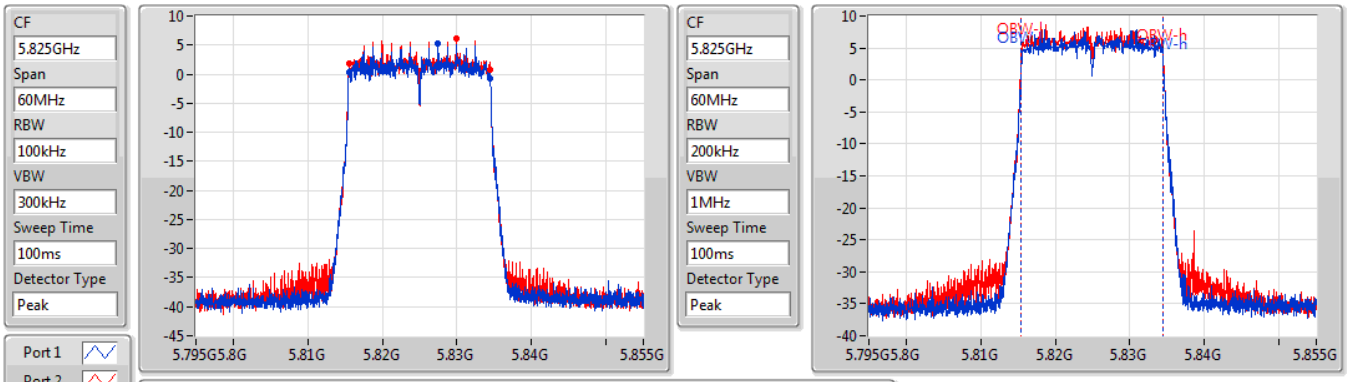


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.02M	5.77546G	5.79448G	19.04M	5.775465G	5.794505G	500k	1
18.96M	5.77549G	5.79445G	19.01M	5.775495G	5.794505G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5825MHz

07/03/2020

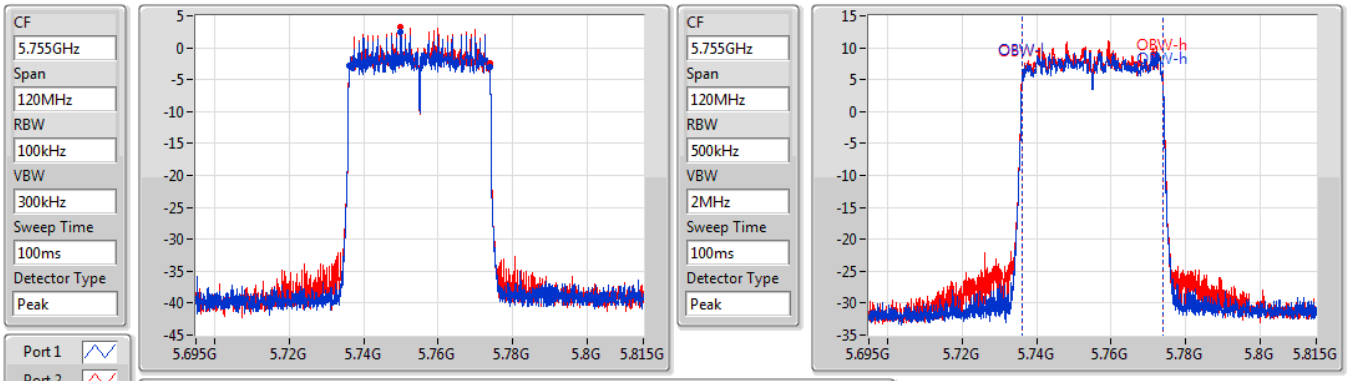


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.99M	5.81549G	5.83448G	19.04M	5.815465G	5.834505G	500k	1
18.9M	5.81555G	5.83445G	19.04M	5.815465G	5.834505G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

5755MHz

07/03/2020

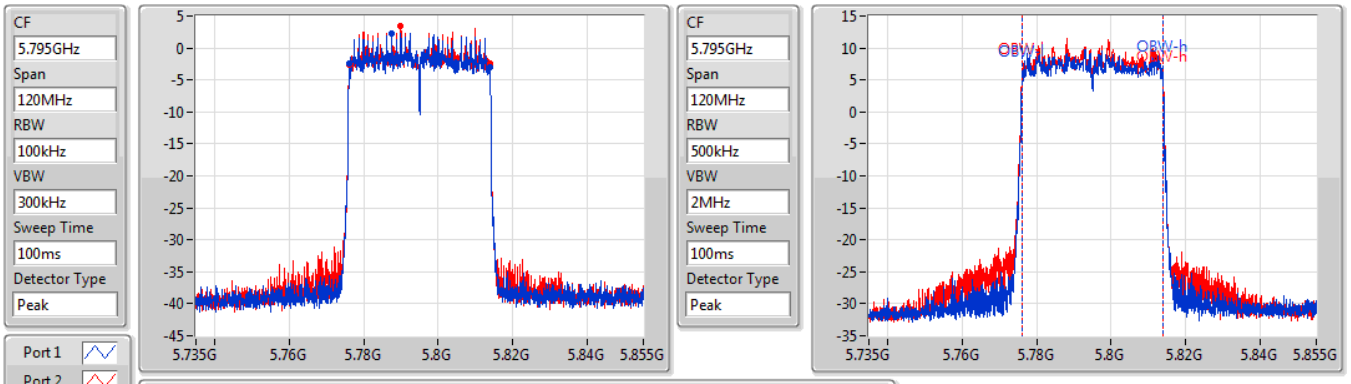


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.56M	5.73616G	5.77372G	37.601M	5.736169G	5.773771G	500k	1
37.56M	5.73616G	5.77372G	37.661M	5.736109G	5.773771G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

5795MHz

07/03/2020

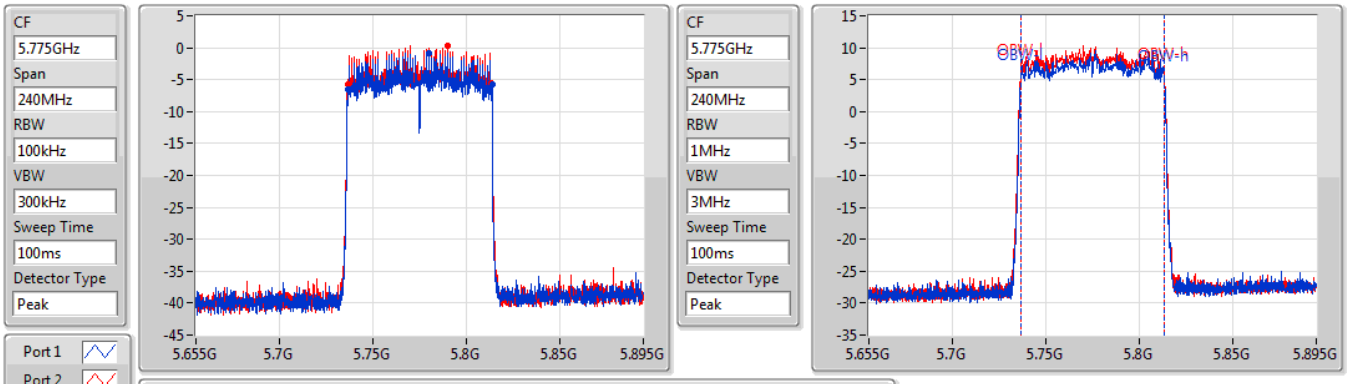


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.56M	5.77616G	5.81372G	37.661M	5.776109G	5.813771G	500k	1
37.56M	5.77616G	5.81372G	37.661M	5.776109G	5.813771G	500k	2

802.11ax HEW80_Nss1,(MCS0)_2TX EBW

5775MHz

07/03/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
77.04M	5.73684G	5.81388G	77.121M	5.736379G	5.813501G	500k	1
76.56M	5.7366G	5.81316G	77.121M	5.736379G	5.813501G	500k	2

<2T1S>

Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	20.32	0.10765	25.13	0.32584
11a40_Nss1,(6Mbps)_2TX	20.13	0.10304	25.06	0.32063
11a80_Nss1,(6Mbps)_2TX	19.96	0.09908	24.74	0.29785
802.11ac VHT20_Nss1,(MCS0)_2TX	20.36	0.10864	25.14	0.32659
802.11ac VHT40_Nss1,(MCS0)_2TX	20.18	0.10423	25.09	0.32285
802.11ac VHT80_Nss1,(MCS0)_2TX	19.95	0.09886	24.73	0.29717
802.11ax HEW20_Nss1,(MCS0)_2TX	20.61	0.11508	25.39	0.34594
802.11ax HEW40_Nss1,(MCS0)_2TX	20.30	0.10715	25.23	0.33343
802.11ax HEW80_Nss1,(MCS0)_2TX	20.08	0.10186	24.86	0.30620

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5745MHz	Pass	4.78	16.84	17.47	20.18	30.00	24.96
5785MHz	Pass	4.78	17.04	17.56	20.32	30.00	25.10
5825MHz	Pass	4.93	16.85	17.51	20.20	30.00	25.13
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5755MHz	Pass	4.78	16.84	17.29	20.08	30.00	24.86
5795MHz	Pass	4.93	16.89	17.33	20.13	30.00	25.06
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5775MHz	Pass	4.78	16.65	17.23	19.96	30.00	24.74
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5745MHz	Pass	4.78	16.76	17.54	20.18	30.00	24.96
5785MHz	Pass	4.78	17.07	17.62	20.36	30.00	25.14
5825MHz	Pass	4.93	16.74	17.39	20.09	30.00	25.02
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5755MHz	Pass	4.78	16.79	17.51	20.18	30.00	24.96
5795MHz	Pass	4.93	16.81	17.47	20.16	30.00	25.09
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5775MHz	Pass	4.78	16.52	17.32	19.95	30.00	24.73
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5745MHz	Pass	4.78	17.18	17.79	20.51	30.00	25.29
5785MHz	Pass	4.78	17.26	17.92	20.61	30.00	25.39
5825MHz	Pass	4.93	17.15	17.73	20.46	30.00	25.39
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5755MHz	Pass	4.78	16.93	17.54	20.26	30.00	25.04
5795MHz	Pass	4.93	17.02	17.54	20.30	30.00	25.23
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5775MHz	Pass	4.78	16.75	17.37	20.08	30.00	24.86

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

<2T1S>

beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
11a20,BF_Nss1,(6Mbps)_2TX	20.32	0.10765	27.96	0.62517
11a40,BF_Nss1,(6Mbps)_2TX	20.13	0.10304	27.89	0.61518
11a80,BF_Nss1,(6Mbps)_2TX	19.96	0.09908	27.56	0.57016
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	20.36	0.10864	27.96	0.62517
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	20.18	0.10423	27.92	0.61944
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	19.95	0.09886	27.55	0.56885
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.61	0.11508	28.22	0.66374
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.30	0.10715	28.06	0.63973
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.08	0.10186	27.68	0.58614

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)
11a20,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5745MHz	Pass	7.60	16.84	17.47	20.18	28.40	27.78
5785MHz	Pass	7.60	17.04	17.56	20.32	28.40	27.92
5825MHz	Pass	7.76	16.85	17.51	20.20	28.24	27.96
11a40,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5755MHz	Pass	7.60	16.84	17.29	20.08	28.40	27.68
5795MHz	Pass	7.76	16.89	17.33	20.13	28.24	27.89
11a80,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5775MHz	Pass	7.60	16.65	17.23	19.96	28.40	27.56
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5745MHz	Pass	7.60	16.76	17.54	20.18	28.40	27.78
5785MHz	Pass	7.60	17.07	17.62	20.36	28.40	27.96
5825MHz	Pass	7.76	16.74	17.39	20.09	28.24	27.85
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5755MHz	Pass	7.60	16.79	17.51	20.18	28.40	27.78
5795MHz	Pass	7.76	16.81	17.47	20.16	28.24	27.92
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5775MHz	Pass	7.60	16.52	17.32	19.95	28.40	27.55
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5745MHz	Pass	7.60	17.18	17.79	20.51	28.40	28.11
5785MHz	Pass	7.60	17.26	17.92	20.61	28.40	28.21
5825MHz	Pass	7.76	17.15	17.73	20.46	28.24	28.22
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5755MHz	Pass	7.60	16.93	17.54	20.26	28.40	27.86
5795MHz	Pass	7.76	17.02	17.54	20.30	28.24	28.06
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5775MHz	Pass	7.60	16.75	17.37	20.08	28.40	27.68

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

<2T1S>

Non-beamforming mode

Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
11a20_Nss1,(6Mbps)_2TX	5.87
11a40_Nss1,(6Mbps)_2TX	2.97
11a80_Nss1,(6Mbps)_2TX	-0.02
802.11ac VHT20_Nss1,(MCS0)_2TX	5.24
802.11ac VHT40_Nss1,(MCS0)_2TX	2.30
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.48
802.11ax HEW20_Nss1,(MCS0)_2TX	5.55
802.11ax HEW40_Nss1,(MCS0)_2TX	2.66
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.29

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

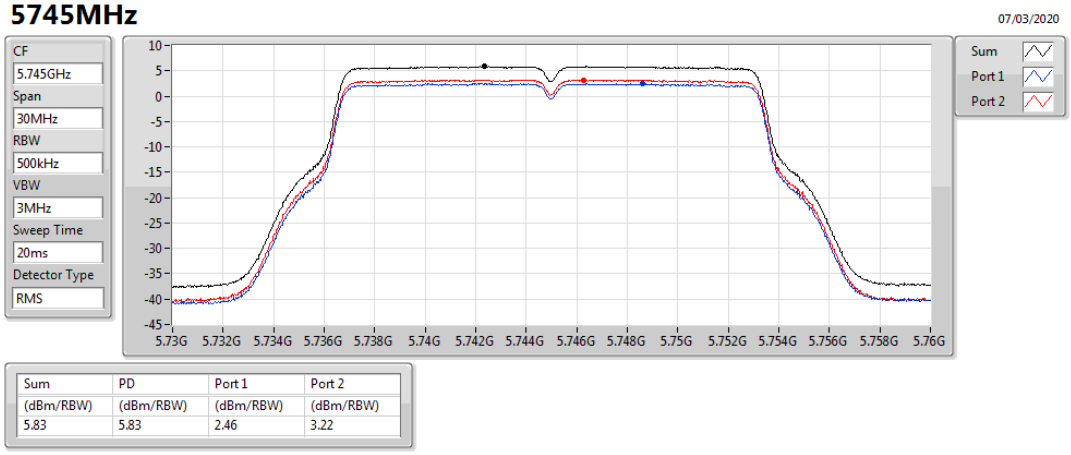
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5745MHz	Pass	7.60	2.46	3.22	5.83	28.40
5785MHz	Pass	7.60	2.48	3.23	5.87	28.40
5825MHz	Pass	7.76	2.54	3.22	5.83	28.24
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5755MHz	Pass	7.60	-0.38	0.28	2.97	28.40
5795MHz	Pass	7.76	-0.30	0.34	2.96	28.24
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5775MHz	Pass	7.60	-3.44	-2.51	-0.02	28.40
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	7.60	1.84	2.53	5.17	28.40
5785MHz	Pass	7.60	1.87	2.66	5.24	28.40
5825MHz	Pass	7.76	1.75	2.56	5.15	28.24
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	7.60	-1.06	-0.35	2.28	28.40
5795MHz	Pass	7.76	-0.96	-0.23	2.30	28.24
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	7.60	-4.06	-2.91	-0.48	28.40
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	7.60	2.19	2.91	5.53	28.40
5785MHz	Pass	7.60	2.17	3.02	5.55	28.40
5825MHz	Pass	7.76	2.13	2.84	5.47	28.24
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	7.60	-0.70	-0.16	2.57	28.40
5795MHz	Pass	7.76	-0.63	0.04	2.66	28.24
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	7.60	-3.66	-2.82	-0.29	28.40

DG = Directional Gain; **RBW** = 500 kHz 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;

11a20_Nss1,(6Mbps)_2TX PSD

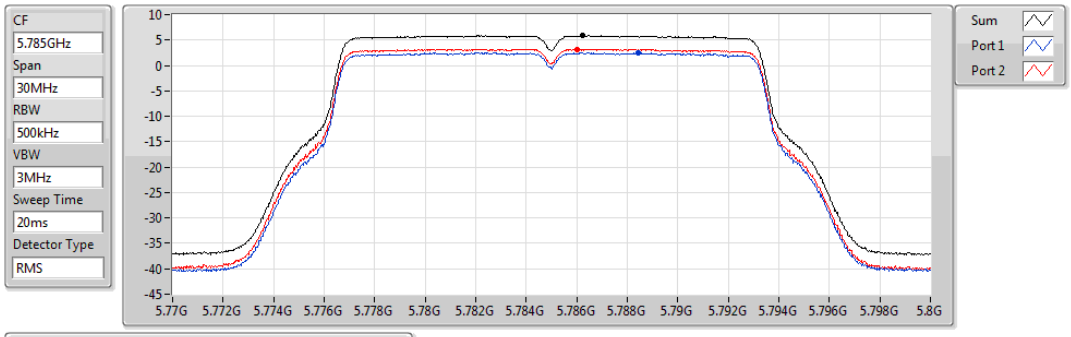
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.83	5.83	2.46	3.22

11a20_Nss1,(6Mbps)_2TX PSD

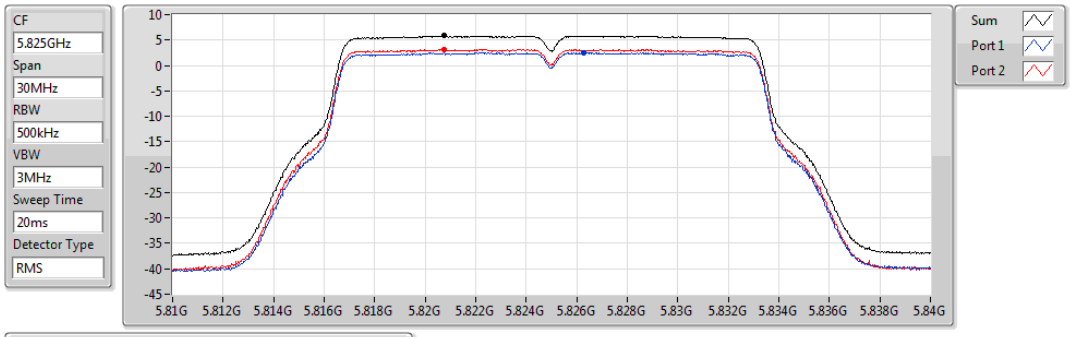
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.87	5.87	2.48	3.23

11a20_Nss1,(6Mbps)_2TX PSD

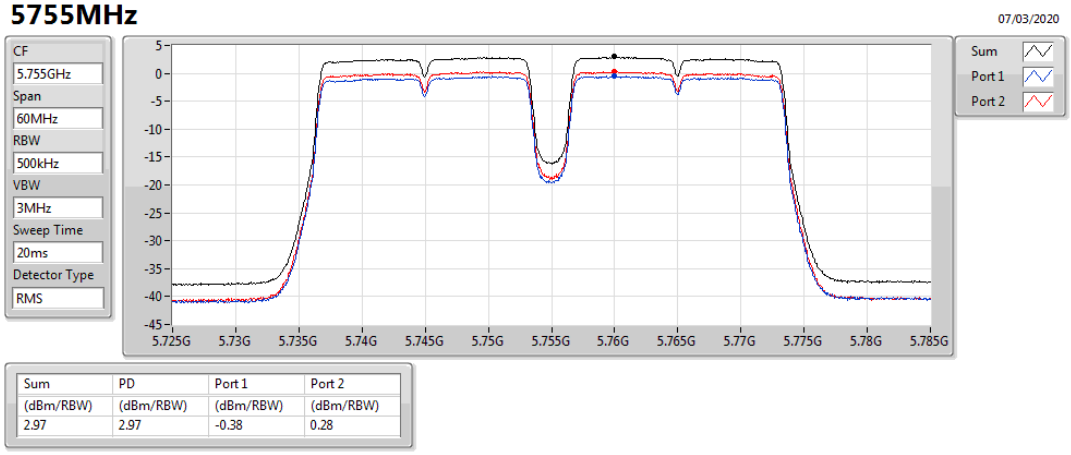
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.83	5.83	2.54	3.22

11a40_Nss1,(6Mbps)_2TX **PSD**

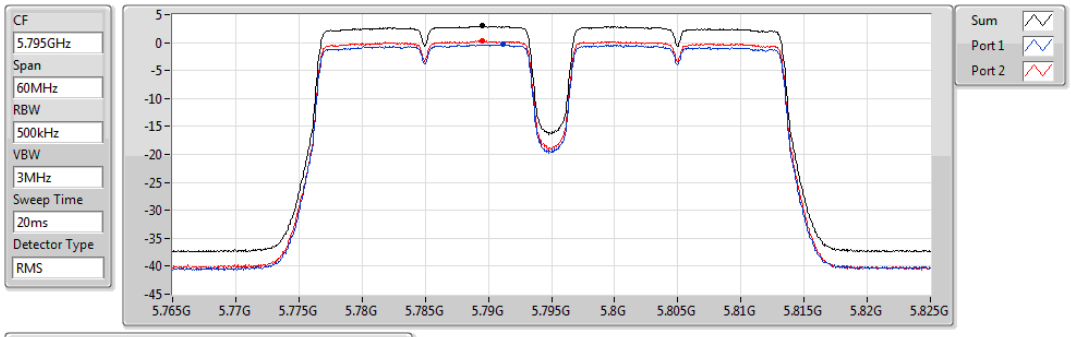
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.97	2.97	-0.38	0.28

11a40_Nss1,(6Mbps)_2TX **PSD**

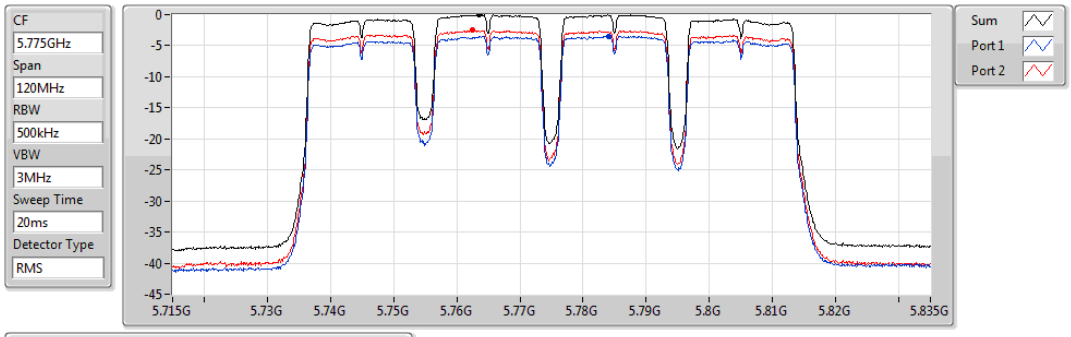
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.96	2.96	-0.30	0.34

11a80_Nss1,(6Mbps)_2TX **PSD**

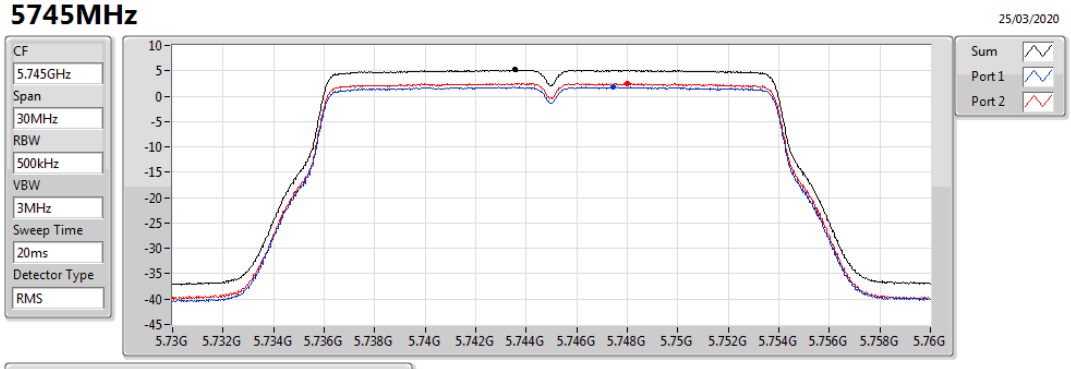
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.02	-0.02	-3.44	-2.51

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

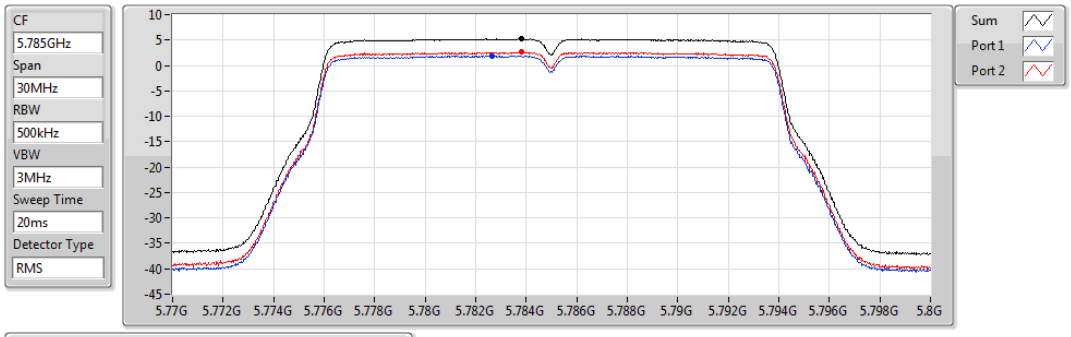
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.17	5.17	1.84	2.53

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

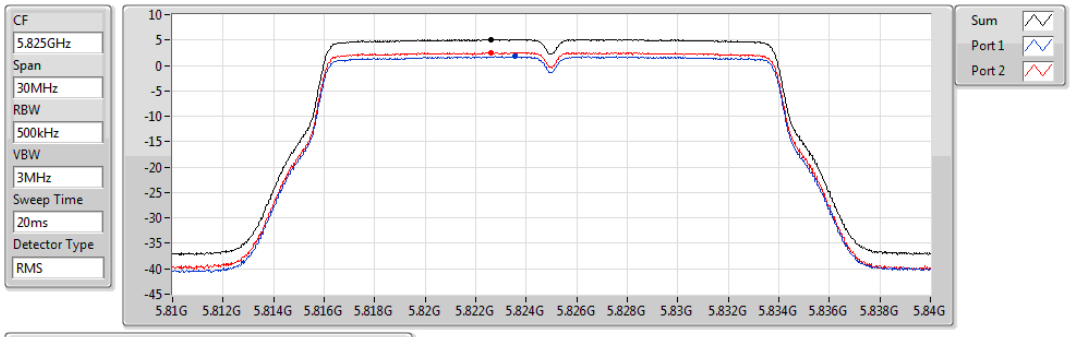
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.24	5.24	1.87	2.66

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

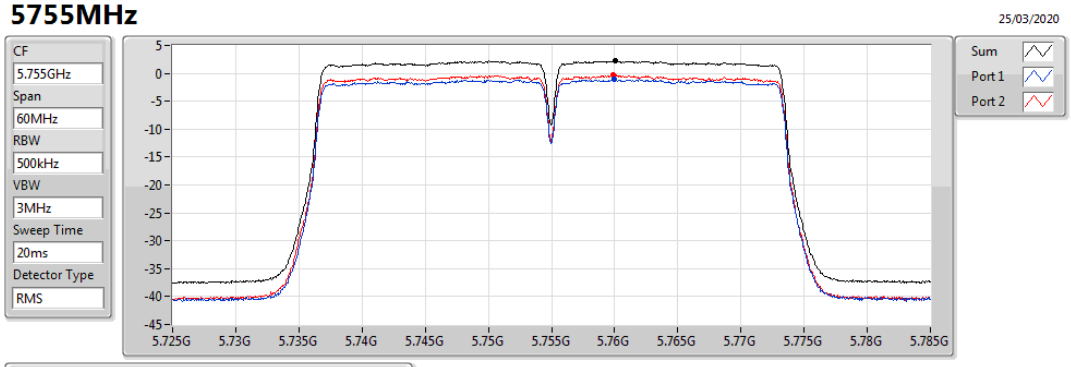
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.15	5.15	1.75	2.56

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

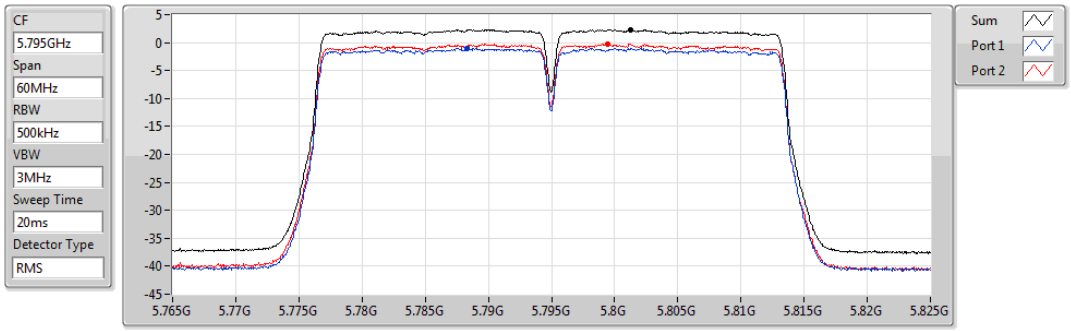
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.28	2.28	-1.06	-0.35

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

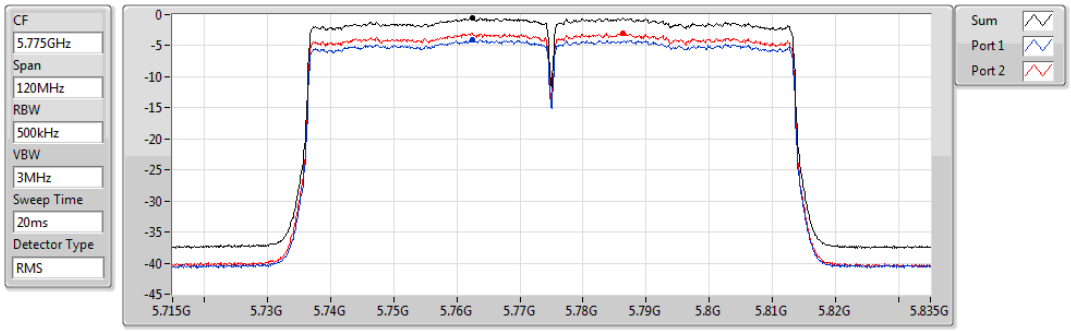
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.30	2.30	-0.96	-0.23

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

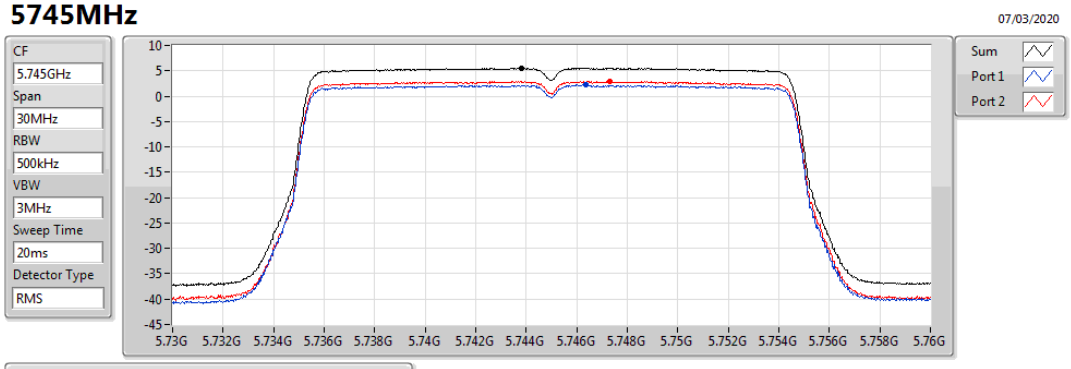
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.48	-0.48	-4.06	-2.91

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

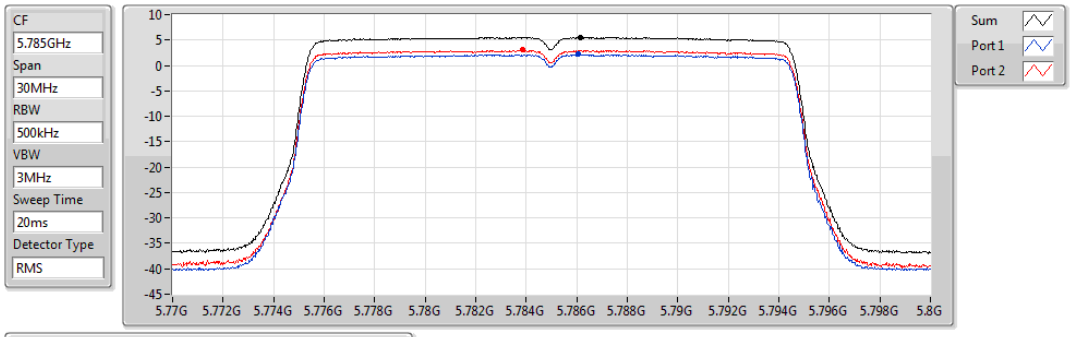
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.53	5.53	2.19	2.91

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

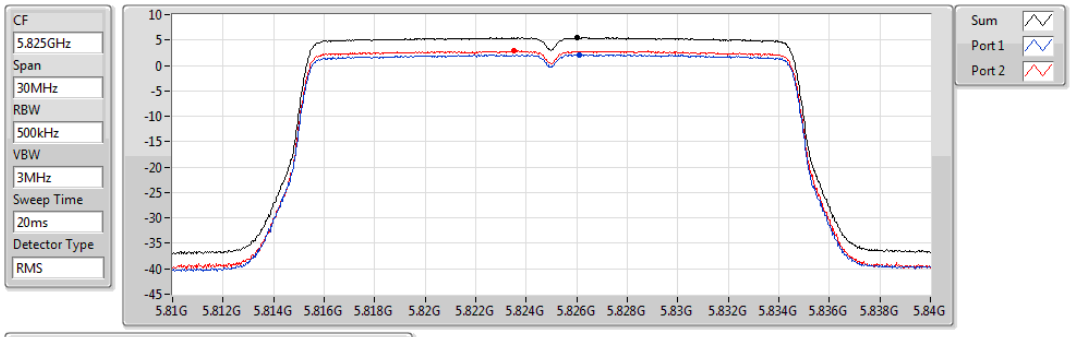
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.55	5.55	2.17	3.02

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

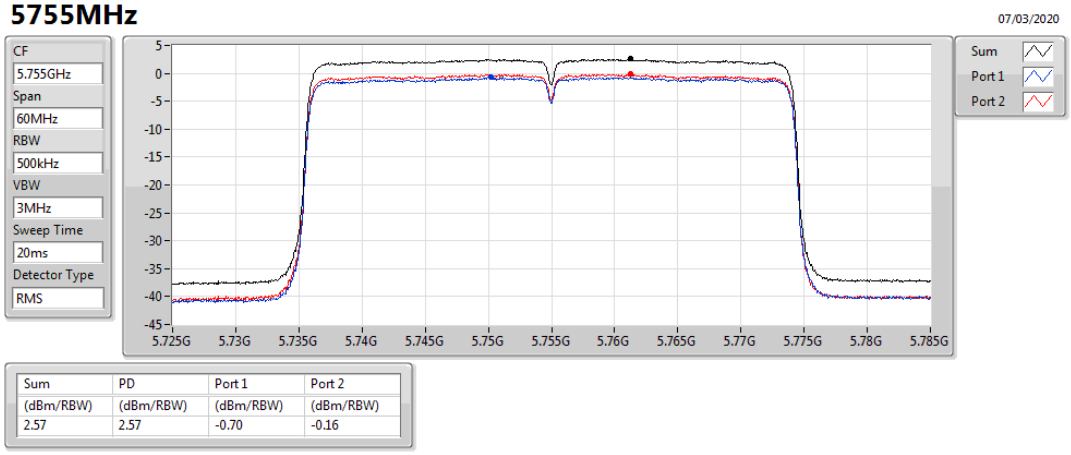
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.47	5.47	2.13	2.84

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

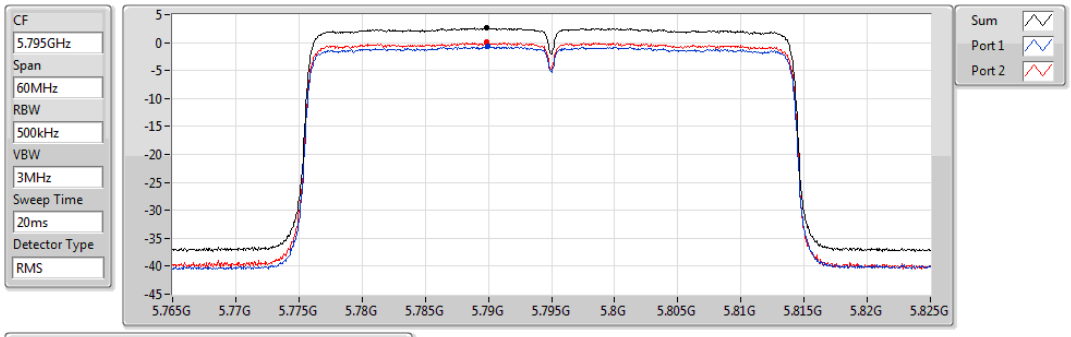
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.57	2.57	-0.70	-0.16

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

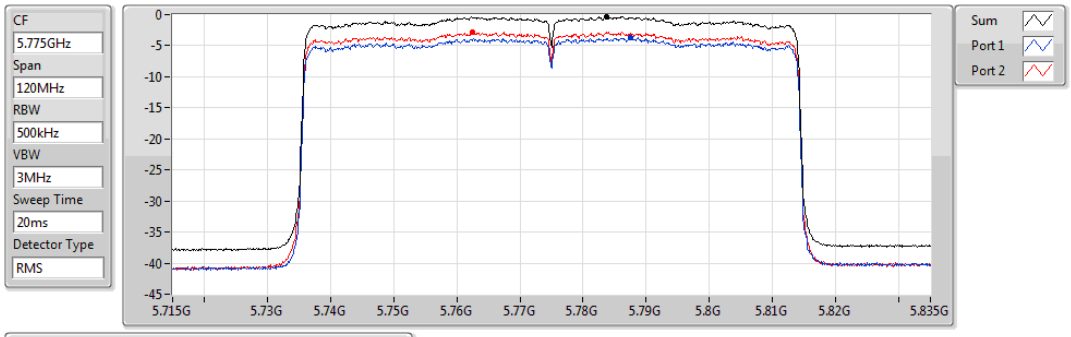
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.66	2.66	-0.63	0.04

802.11ax HEW80_Nss1,(MCS0)_2TX PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.29	-0.29	-3.66	-2.82

<2T1S>

beamforming mode

Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
11a20,BF_Nss1,(6Mbps)_2TX	5.87
11a40,BF_Nss1,(6Mbps)_2TX	2.97
11a80,BF_Nss1,(6Mbps)_2TX	-0.02
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	5.24
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	2.3
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-0.48
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	5.55
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	2.66
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-0.29

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

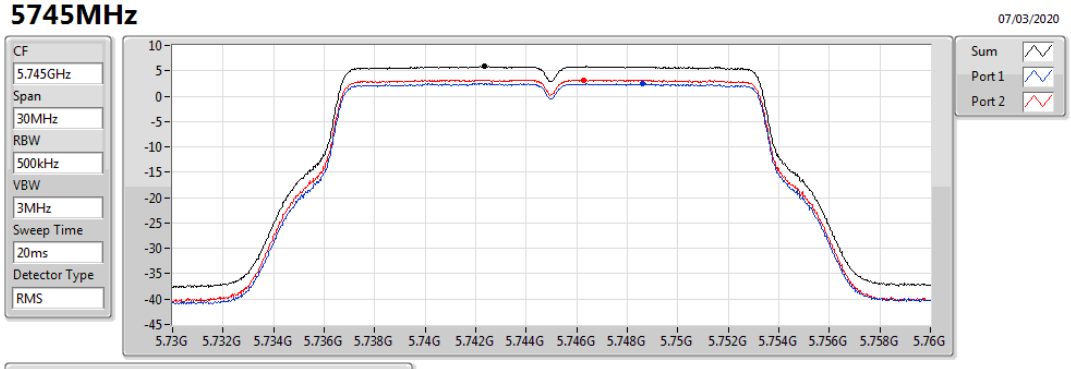
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
11a20,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5745MHz	Pass	7.60	2.46	3.22	5.83	28.40
5785MHz	Pass	7.60	2.48	3.23	5.87	28.40
5825MHz	Pass	7.76	2.54	3.22	5.83	28.24
11a40,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5755MHz	Pass	7.60	-0.38	0.28	2.97	28.40
5795MHz	Pass	7.76	-0.3	0.34	2.96	28.24
11a80,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5775MHz	Pass	7.60	-3.44	-2.51	-0.02	28.40
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	7.60	1.84	2.53	5.17	28.40
5785MHz	Pass	7.60	1.87	2.66	5.24	28.40
5825MHz	Pass	7.76	1.75	2.56	5.15	28.24
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	7.60	-1.06	-0.35	2.28	28.40
5795MHz	Pass	7.76	-0.96	-0.23	2.30	28.24
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	7.60	-4.06	-2.91	-0.48	28.40
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	7.60	2.19	2.91	5.53	28.40
5785MHz	Pass	7.60	2.17	3.02	5.55	28.40
5825MHz	Pass	7.76	2.13	2.84	5.47	28.24
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	7.60	-0.7	-0.16	2.57	28.40
5795MHz	Pass	7.76	-0.63	0.04	2.66	28.24
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	7.60	-3.66	-2.82	-0.29	28.40

DG = Directional Gain; **RBW** = 500 kHz 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;

11a20,BF_Nss1,(6Mbps)_2TX **PSD**

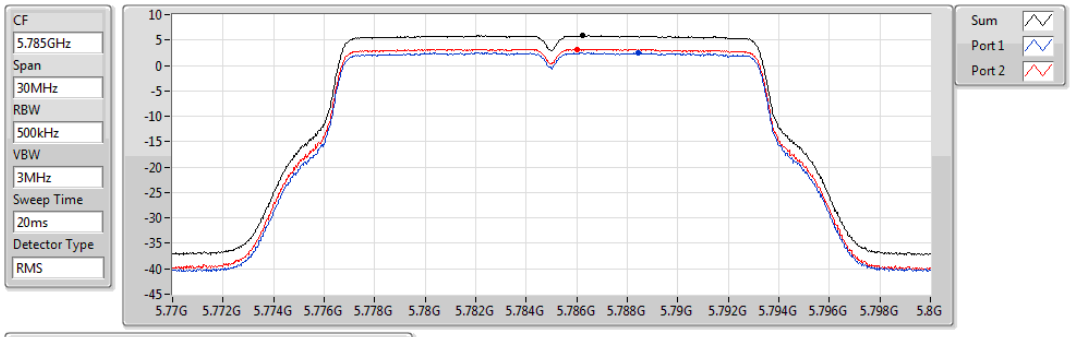
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.83	5.83	2.46	3.22

11a20,BF_Nss1,(6Mbps)_2TX **PSD**

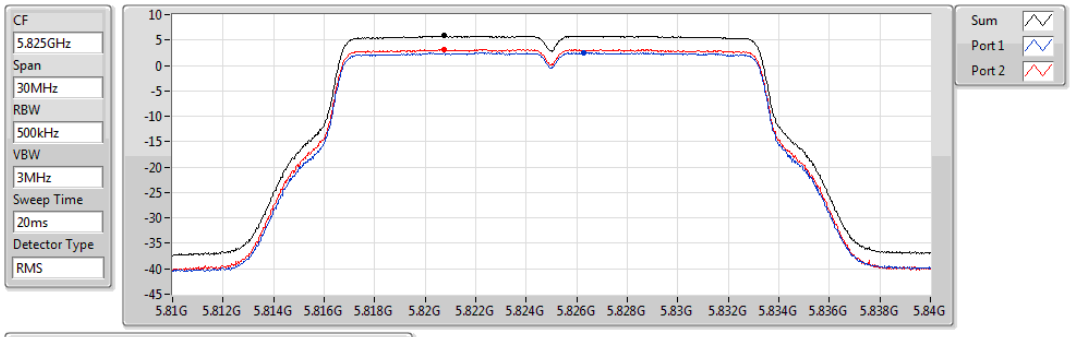
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.87	5.87	2.48	3.23

11a20,BF_Nss1,(6Mbps)_2TX **PSD**

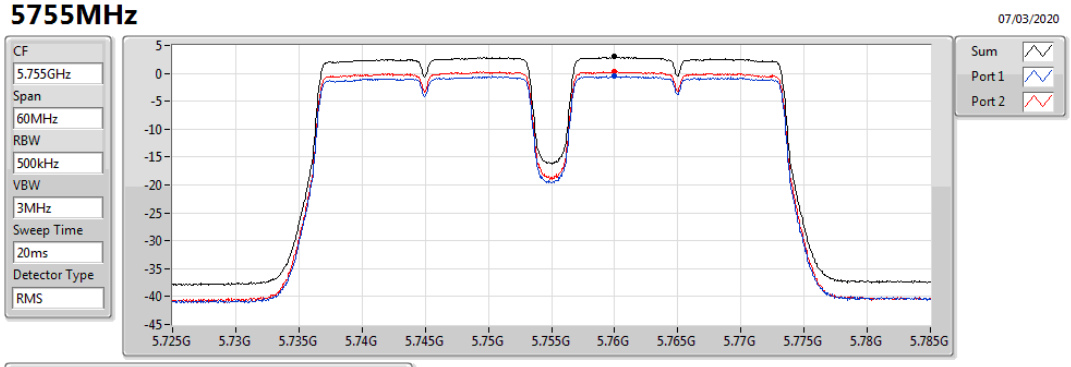
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.83	5.83	2.54	3.22

11a40,BF_Nss1,(6Mbps)_2TX **PSD**

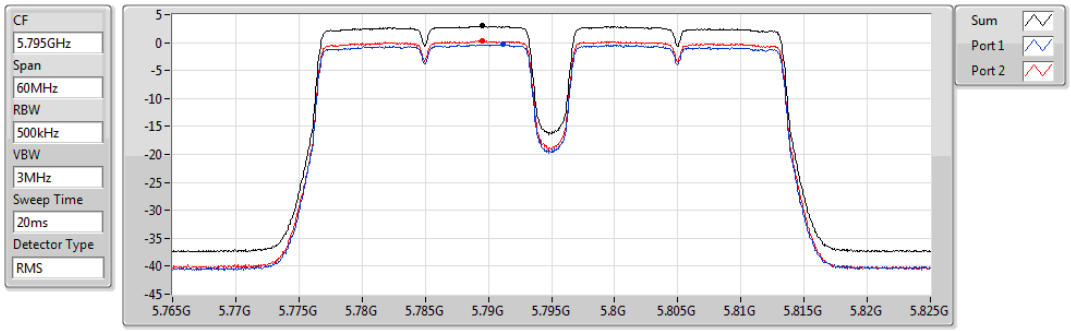
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.97	2.97	-0.38	0.28

11a40,BF_Nss1,(6Mbps)_2TX **PSD**

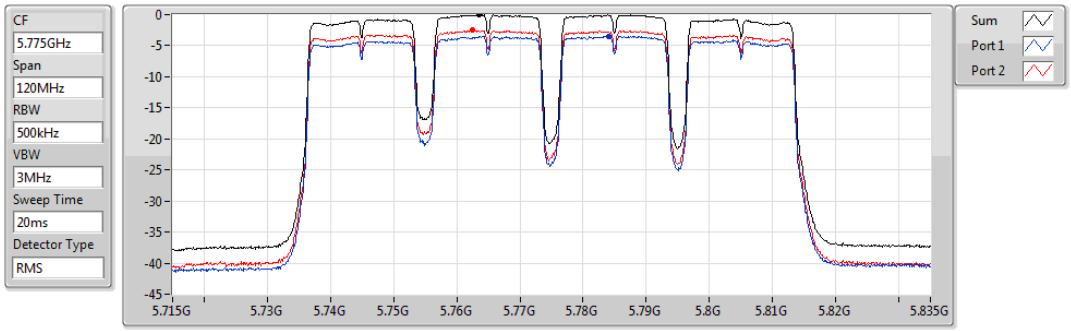
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.96	2.96	-0.30	0.34

11a80,BF_Nss1,(6Mbps)_2TX **PSD**

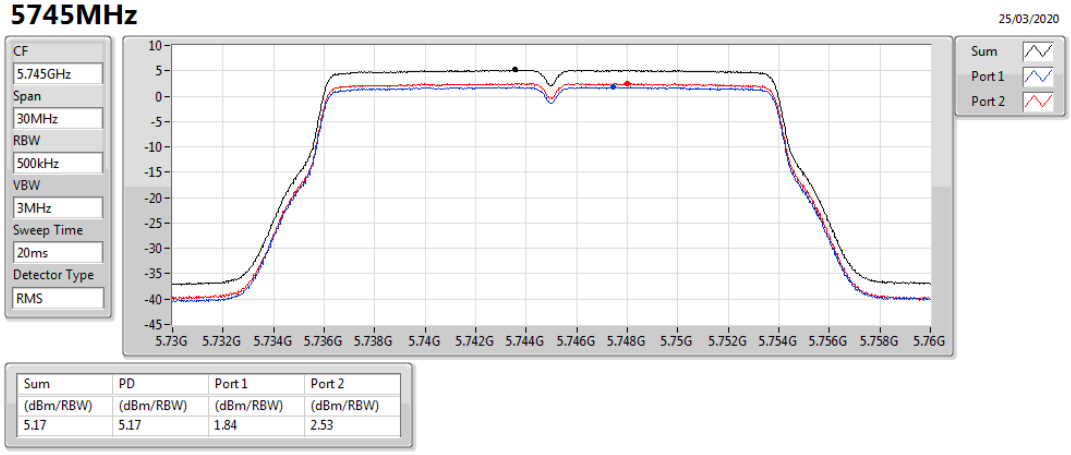
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.02	-0.02	-3.44	-2.51

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

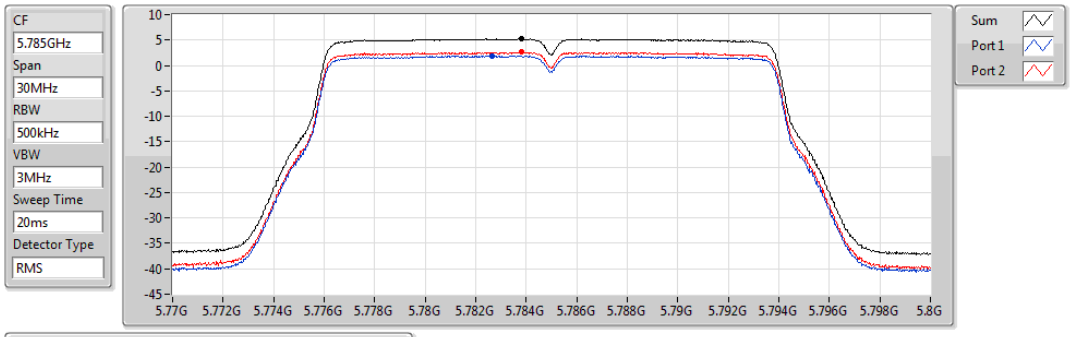
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.17	5.17	1.84	2.53

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

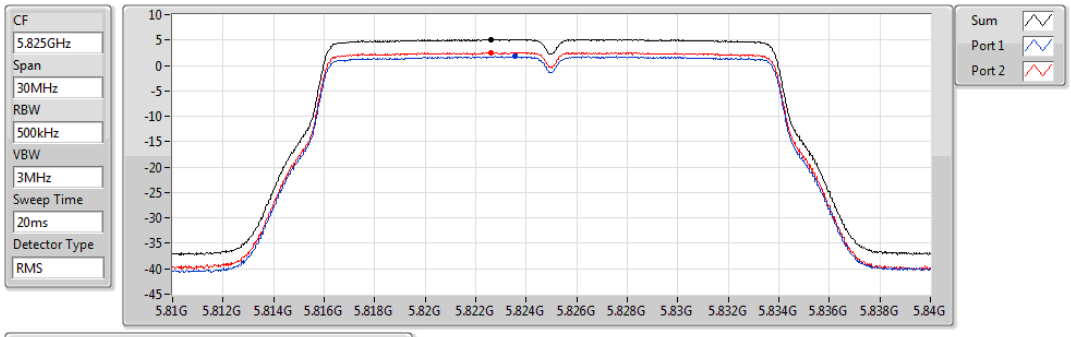
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.24	5.24	1.87	2.66

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

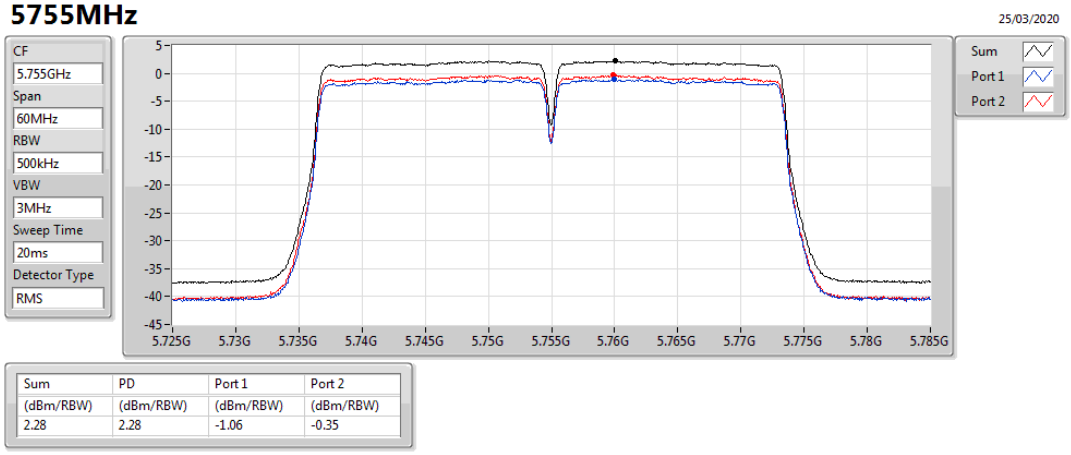
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.15	5.15	1.75	2.56

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

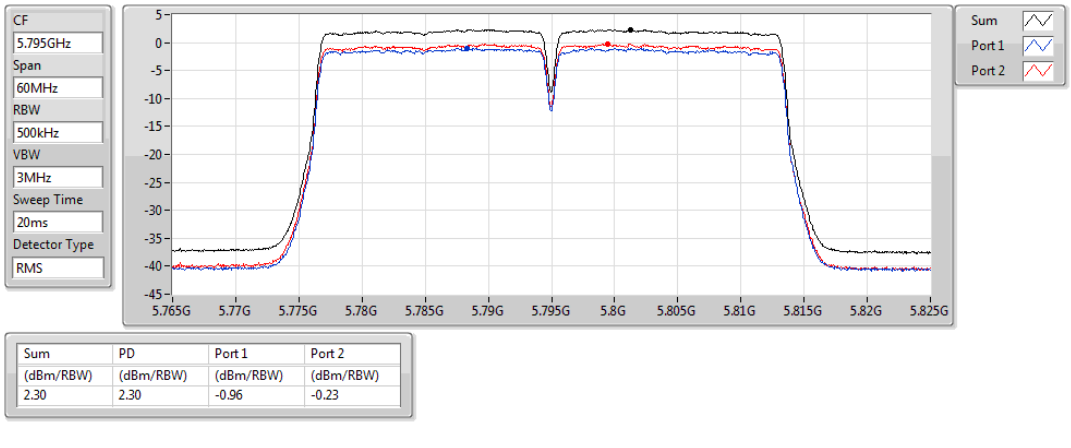
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.28	2.28	-1.06	-0.35

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

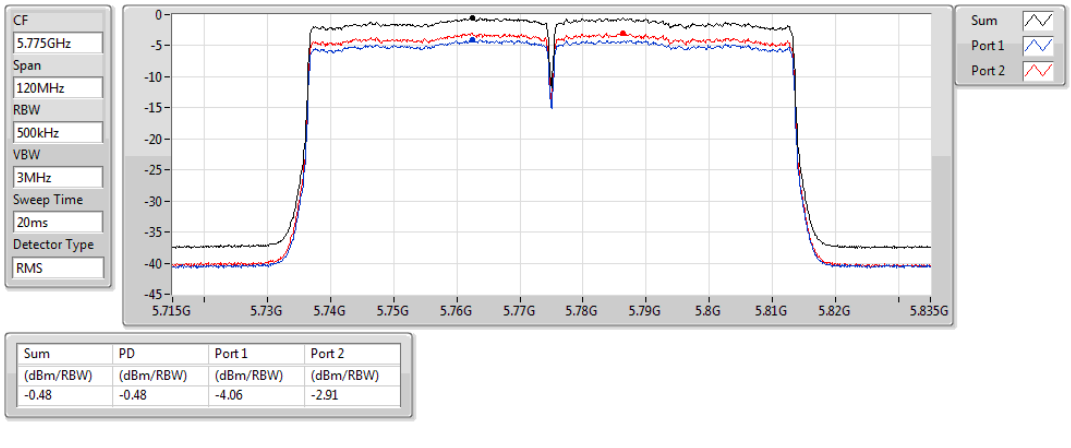
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.30	2.30	-0.96	-0.23

802.11ac VHT80-BF_Nss1,(MCS0)_2TX PSD

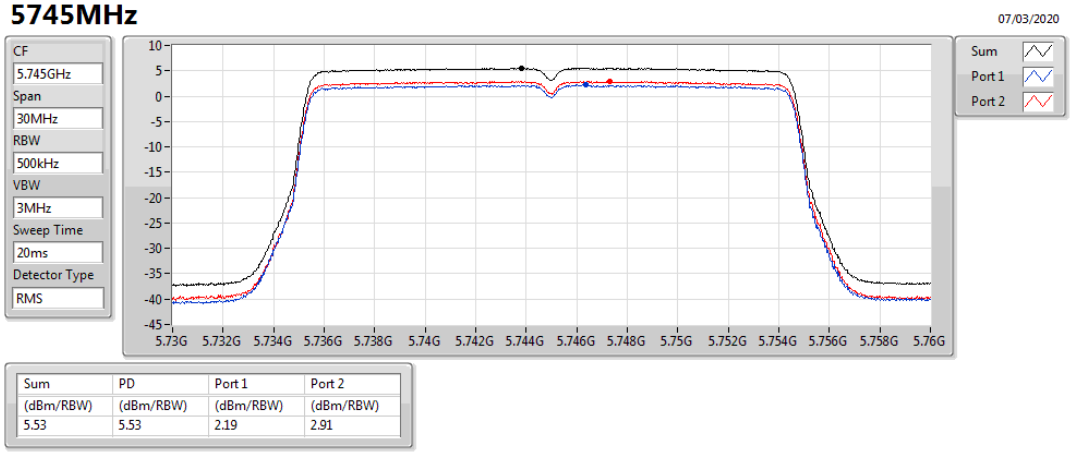
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.48	-0.48	-4.06	-2.91

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

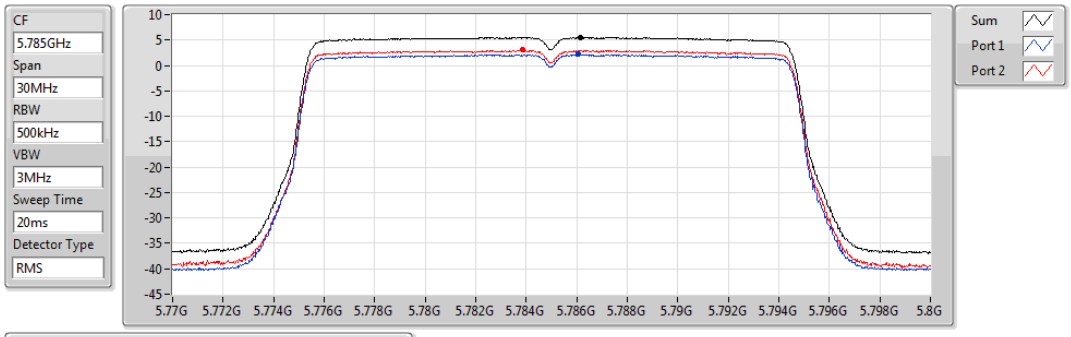
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.53	5.53	2.19	2.91

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

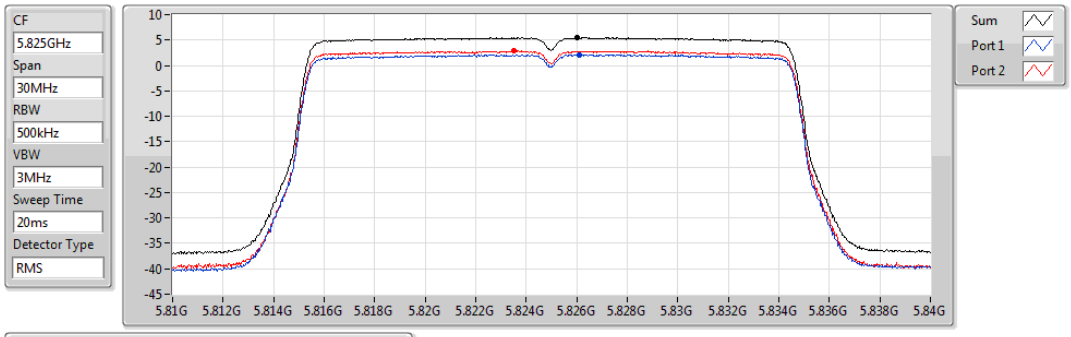
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.55	5.55	2.17	3.02

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

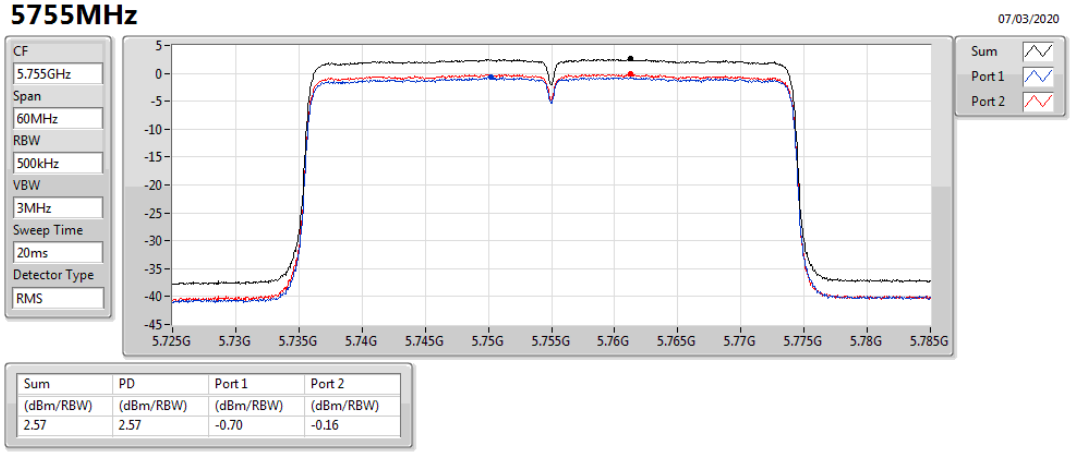
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.47	5.47	2.13	2.84

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

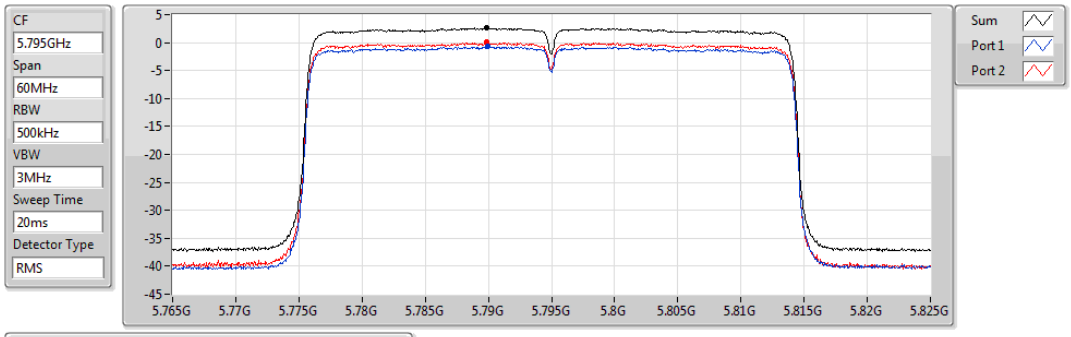
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.57	2.57	-0.70	-0.16

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

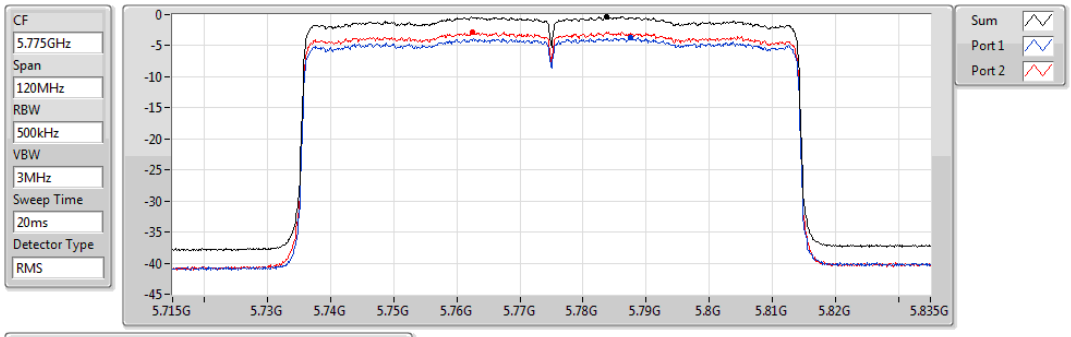
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.66	2.66	-0.63	0.04

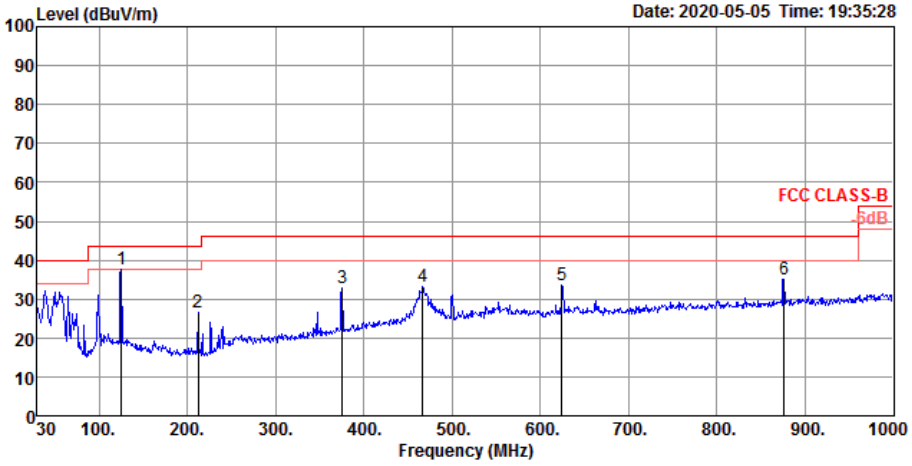
802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.29	-0.29	-3.66	-2.82

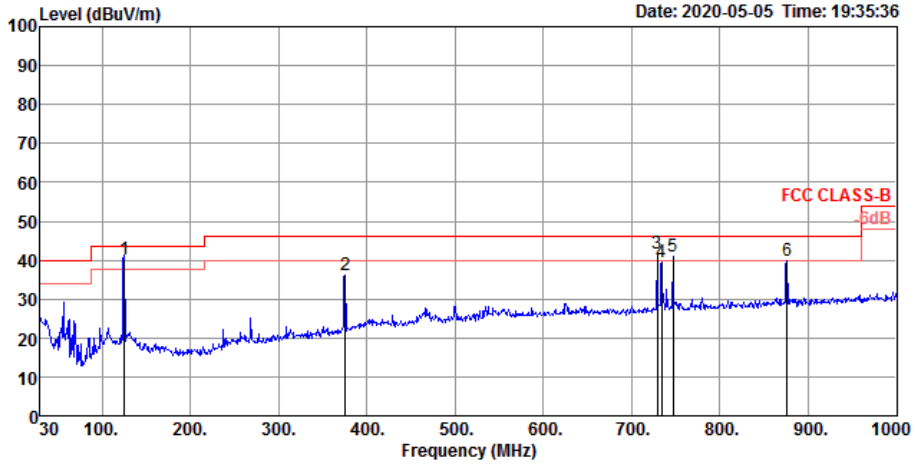
RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Vertical
Operating Function	CTX		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	125.06	37.73	43.50	-5.77	49.79	1.73	18.06	31.85	100	62	Peak	VERTICAL
2	212.36	26.71	43.50	-16.79	42.04	2.05	14.58	31.96	150	3	Peak	VERTICAL
3	375.32	32.76	46.00	-13.24	41.94	2.76	20.23	32.17	200	342	Peak	VERTICAL
4	466.50	33.06	46.00	-12.94	39.79	2.97	22.66	32.36	100	1	Peak	VERTICAL
5	624.61	33.60	46.00	-12.40	38.08	3.55	24.40	32.43	125	221	Peak	VERTICAL
6	875.84	35.14	46.00	-10.86	37.29	4.40	25.85	32.40	100	186	Peak	VERTICAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Horizontal
Operating Function	CTX		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	125.06	40.37	43.50	-3.13	52.43	1.73	18.06	31.85	300	93	Peak	HORIZONTAL
2	375.32	36.20	46.00	-9.80	45.38	2.76	20.23	32.17	100	231	Peak	HORIZONTAL
3	729.37	41.83	46.00	-4.17	45.48	3.92	24.82	32.39	125	22	Peak	HORIZONTAL
4	734.22	39.65	46.00	-6.35	43.20	3.94	24.89	32.38	150	198	Peak	HORIZONTAL
5	746.83	40.85	46.00	-5.15	44.18	3.99	25.02	32.34	100	8	Peak	HORIZONTAL
6	875.84	39.71	46.00	-6.29	41.86	4.40	25.85	32.40	100	208	Peak	HORIZONTAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

For Radiated Cabinet:

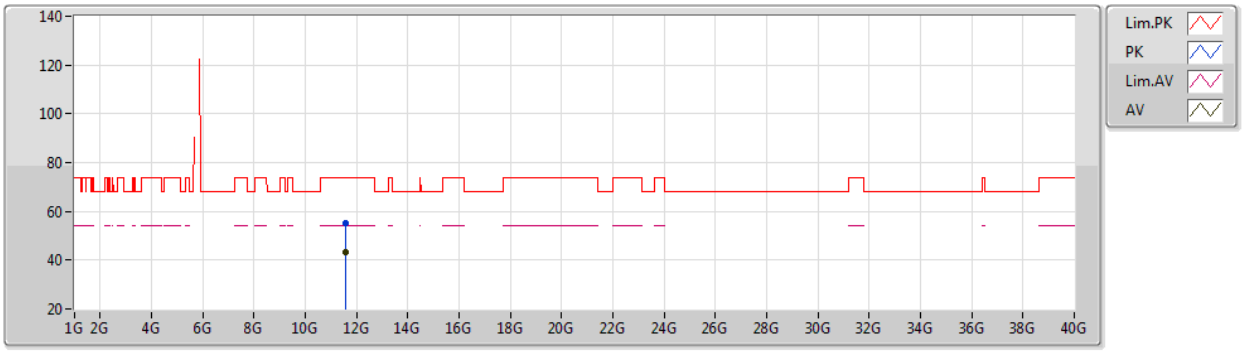
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	11.57174G	43.02	54.00	-10.98	3	Vertical	317	2.21	-

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TX

10/03/2020



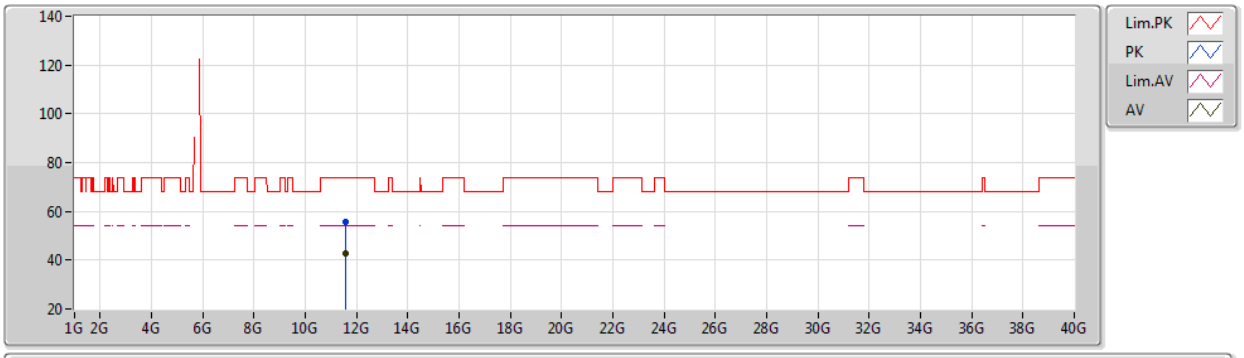
EUT Y_2TX
Setting 17
05-M-J-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5619G	55.22	74.00	-18.78	41.75	3	Vertical	317	2.21	-	39.57	8.92	35.02
AV	11.57174G	43.02	54.00	-10.98	29.56	3	Vertical	317	2.21	-	39.56	8.92	35.02

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TX

10/03/2020



EUT Y_2TX
Setting 17
05-M-J-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.56238G	55.64	74.00	-18.36	42.17	3	Horizontal	195	1.76	-	39.57	8.92	35.02
AV	11.56784G	42.86	54.00	-11.14	29.40	3	Horizontal	195	1.76	-	39.56	8.92	35.02

<2T1S>

For Conducted Harmonic (1~8GHz):

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	Pass	1G	5.685G	AV	5.44314G	7.60	-60.47	-60.96	-57.70	-50.10	-41.20	-8.90
11a40_Nss1,(6Mbps)_2TX	Pass	1G	5.645G	AV	5.43249G	7.76	-60.08	-60.91	-57.46	-49.70	-41.20	-8.50
11a80_Nss1,(6Mbps)_2TX	Pass	5.565G	5.725G	PK	5.6338G	7.60	-45.18	-40.41	-39.16	-31.56	-27.00	-4.56
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	1G	5.685G	AV	5.45368G	7.60	-60.51	-59.69	-57.07	-49.47	-41.20	-8.27
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	1G	5.645G	AV	5.44991G	7.76	-60.76	-60.08	-57.40	-49.64	-41.20	-8.44
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	5.565G	5.725G	PK	5.64948G	7.60	-45.46	-43.02	-41.06	-33.46	-27.00	-6.46

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

Result

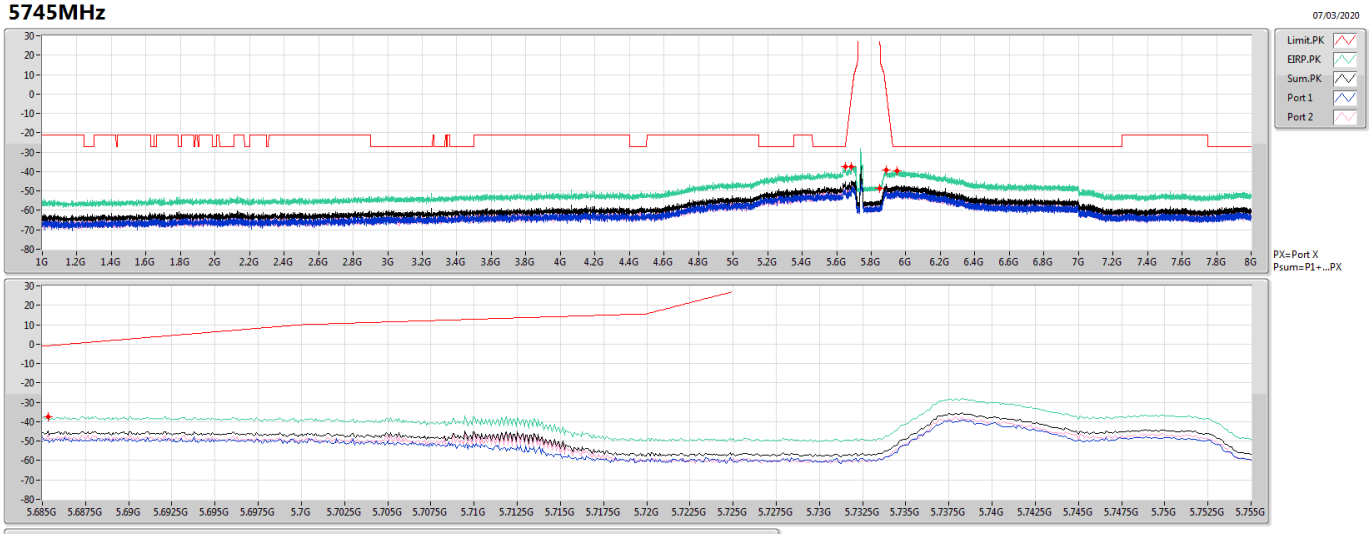
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	1G	5.685G	AV	5.45309G	7.60	-60.16	-61.55	-57.79	-50.19	-41.20	-8.99
5745MHz	Pass	5.89G	8G	AV	7.49017G	7.60	-71.60	-71.46	-68.52	-60.92	-41.20	-19.72
5745MHz	Pass	1G	5.685G	PK	5.65045G	7.60	-47.57	-49.04	-45.23	-37.63	-26.67	-10.96
5745MHz	Pass	5.685G	5.725G	PK	5.68532G	7.60	-49.69	-46.65	-44.90	-37.30	-0.86	-36.44
5745MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-59.36	-58.81	-56.07	-48.47	27.00	-75.47
5745MHz	Pass	5.85G	5.89G	PK	5.88872G	7.60	-50.87	-48.59	-46.57	-38.97	-0.15	-38.82
5745MHz	Pass	5.89G	8G	PK	5.95014G	7.60	-49.34	-51.18	-47.15	-39.55	-27.00	-12.55
5785MHz	Pass	1G	5.685G	AV	5.44314G	7.60	-60.47	-60.96	-57.70	-50.10	-41.20	-8.90
5785MHz	Pass	5.89G	8G	AV	7.4849G	7.60	-71.57	-70.95	-68.24	-60.64	-41.20	-19.44
5785MHz	Pass	1G	5.685G	PK	5.55148G	7.60	-52.24	-49.81	-47.85	-40.25	-27.00	-13.25
5785MHz	Pass	5.685G	5.725G	PK	5.6858G	7.60	-48.91	-47.11	-44.91	-37.31	-0.51	-36.80
5785MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-59.45	-58.88	-56.15	-48.55	27.00	-75.55
5785MHz	Pass	5.85G	5.89G	PK	5.88992G	7.60	-48.72	-47.58	-45.10	-37.50	-1.04	-36.46
5785MHz	Pass	5.89G	8G	PK	6.03111G	7.60	-49.88	-50.45	-47.15	-39.55	-27.00	-12.55
5825MHz	Pass	1G	5.685G	AV	5.44841G	7.76	-60.48	-61.43	-57.92	-50.16	-41.20	-8.96
5825MHz	Pass	5.89G	8G	AV	7.30344G	7.76	-71.23	-71.54	-68.37	-60.61	-41.20	-19.41
5825MHz	Pass	1G	5.685G	PK	5.53508G	7.76	-54.44	-48.55	-47.55	-39.79	-27.00	-12.79
5825MHz	Pass	5.685G	5.725G	PK	5.685G	7.76	-51.93	-49.35	-47.44	-39.68	-1.10	-38.58
5825MHz	Pass	5.725G	5.85G	PK	5.85G	7.76	-59.48	-60.39	-56.90	-49.14	27.00	-76.14
5825MHz	Pass	5.85G	5.89G	PK	5.88984G	7.76	-49.11	-48.30	-45.68	-37.92	-0.98	-36.94
5825MHz	Pass	5.89G	8G	PK	5.92772G	7.76	-46.87	-48.18	-44.47	-36.71	-27.00	-9.71
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	1G	5.645G	AV	5.44062G	7.60	-60.00	-60.88	-57.41	-49.81	-41.20	-8.61
5755MHz	Pass	5.93G	8G	AV	7.29465G	7.60	-72.39	-70.88	-68.56	-60.96	-41.20	-19.76
5755MHz	Pass	1G	5.645G	PK	5.63803G	7.60	-50.71	-47.91	-46.08	-38.48	-27.00	-11.48
5755MHz	Pass	5.645G	5.725G	PK	5.64996G	7.60	-48.44	-44.89	-43.30	-35.70	-27.00	-8.70
5755MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-59.40	-60.41	-56.87	-49.27	27.00	-76.27
5755MHz	Pass	5.85G	5.93G	PK	5.92872G	7.60	-48.73	-48.62	-45.66	-38.06	-27.00	-11.06
5755MHz	Pass	5.93G	8G	PK	5.93207G	7.60	-50.84	-48.81	-46.70	-39.10	-27.00	-12.10
5795MHz	Pass	1G	5.645G	AV	5.43249G	7.76	-60.08	-60.91	-57.46	-49.70	-41.20	-8.50
5795MHz	Pass	5.93G	8G	AV	7.59868G	7.76	-72.21	-70.69	-68.37	-60.61	-41.20	-19.41
5795MHz	Pass	1G	5.645G	PK	5.64036G	7.76	-51.79	-49.41	-47.43	-39.67	-27.00	-12.67
5795MHz	Pass	5.645G	5.725G	PK	5.64564G	7.76	-49.92	-47.48	-45.52	-37.76	-27.00	-10.76
5795MHz	Pass	5.725G	5.85G	PK	5.85G	7.76	-59.22	-60.24	-56.69	-48.93	27.00	-75.93
5795MHz	Pass	5.85G	5.93G	PK	5.92712G	7.76	-47.34	-48.45	-44.85	-37.09	-27.00	-10.09
5795MHz	Pass	5.93G	8G	PK	5.9582G	7.76	-49.19	-48.28	-45.70	-37.94	-27.00	-10.94
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	1G	5.565G	AV	5.43262G	7.60	-60.04	-61.24	-57.59	-49.99	-41.20	-8.79
5775MHz	Pass	6.01G	8G	AV	7.30524G	7.60	-71.51	-71.27	-68.38	-60.78	-41.20	-19.58
5775MHz	Pass	1G	5.565G	PK	5.56044G	7.60	-50.62	-47.97	-46.09	-38.49	-27.00	-11.49
5775MHz	Pass	5.565G	5.725G	PK	5.6338G	7.60	-45.18	-40.41	-39.16	-31.56	-27.00	-4.56
5775MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-57.97	-59.16	-55.51	-47.91	27.00	-74.91
5775MHz	Pass	5.85G	6.01G	PK	5.93288G	7.60	-44.00	-42.68	-40.28	-32.68	-27.00	-5.68
5775MHz	Pass	6.01G	8G	PK	6.01473G	7.60	-51.10	-49.07	-46.96	-39.36	-27.00	-12.36
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	1G	5.685G	AV	5.44021G	7.60	-60.94	-60.91	-57.91	-50.31	-41.20	-9.11
5745MHz	Pass	5.89G	8G	AV	7.29552G	7.60	-70.66	-72.25	-68.37	-60.77	-41.20	-19.57
5745MHz	Pass	1G	5.685G	PK	5.64635G	7.60	-51.65	-47.33	-45.96	-38.36	-27.00	-11.36

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5745MHz	Pass	5.685G	5.725G	PK	5.68516G	7.60	-49.49	-47.41	-45.32	-37.72	-0.98	-36.74
5745MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-60.00	-59.56	-56.76	-49.16	27.00	-76.16
5745MHz	Pass	5.85G	5.89G	PK	5.89G	7.60	-50.75	-51.46	-48.08	-40.48	-1.10	-39.38
5745MHz	Pass	5.89G	8G	PK	5.95884G	7.60	-50.31	-49.02	-46.61	-39.01	-27.00	-12.01
5785MHz	Pass	1G	5.685G	AV	5.45368G	7.60	-60.51	-59.69	-57.07	-49.47	-41.20	-8.27
5785MHz	Pass	5.89G	8G	AV	7.30001G	7.60	-71.63	-71.28	-68.44	-60.84	-41.20	-19.64
5785MHz	Pass	1G	5.685G	PK	5.54211G	7.60	-50.74	-50.09	-47.39	-39.79	-27.00	-12.79
5785MHz	Pass	5.685G	5.725G	PK	5.68628G	7.60	-48.63	-47.10	-44.79	-37.19	-0.15	-37.04
5785MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-58.99	-59.64	-56.29	-48.69	27.00	-75.69
5785MHz	Pass	5.85G	5.89G	PK	5.8896G	7.60	-47.52	-46.53	-43.99	-36.39	-0.80	-35.59
5785MHz	Pass	5.89G	8G	PK	5.96174G	7.60	-51.68	-48.42	-46.74	-39.14	-27.00	-12.14
5825MHz	Pass	1G	5.685G	AV	5.44431G	7.76	-60.75	-61.15	-57.94	-50.18	-41.20	-8.98
5825MHz	Pass	5.89G	8G	AV	7.5089G	7.76	-71.85	-71.35	-68.58	-60.82	-41.20	-19.62
5825MHz	Pass	1G	5.685G	PK	5.579G	7.76	-49.83	-50.53	-47.16	-39.40	-27.00	-12.40
5825MHz	Pass	5.685G	5.725G	PK	5.685G	7.76	-51.23	-50.64	-47.91	-40.15	-1.10	-39.05
5825MHz	Pass	5.725G	5.85G	PK	5.85G	7.76	-59.44	-59.28	-56.35	-48.59	27.00	-75.59
5825MHz	Pass	5.85G	5.89G	PK	5.89G	7.76	-49.60	-47.20	-45.23	-37.47	-1.10	-36.37
5825MHz	Pass	5.89G	8G	PK	5.92561G	7.76	-47.65	-46.26	-43.89	-36.13	-27.00	-9.13
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	1G	5.645G	AV	5.44701G	7.60	-59.85	-61.25	-57.48	-49.88	-41.20	-8.68
5755MHz	Pass	5.93G	8G	AV	7.56556G	7.60	-71.25	-72.06	-68.63	-61.03	-41.20	-19.83
5755MHz	Pass	1G	5.645G	PK	5.63861G	7.60	-48.88	-48.22	-45.53	-37.93	-27.00	-10.93
5755MHz	Pass	5.645G	5.725G	PK	5.65076G	7.60	-46.67	-45.29	-42.92	-35.32	-26.44	-8.88
5755MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-60.09	-58.91	-56.45	-48.85	27.00	-75.85
5755MHz	Pass	5.85G	5.93G	PK	5.9284G	7.60	-49.41	-48.07	-45.68	-38.08	-27.00	-11.08
5755MHz	Pass	5.93G	8G	PK	5.95536G	7.60	-48.86	-50.03	-46.40	-38.80	-27.00	-11.80
5795MHz	Pass	1G	5.645G	AV	5.44991G	7.76	-60.76	-60.08	-57.40	-49.64	-41.20	-8.44
5795MHz	Pass	5.93G	8G	AV	7.48147G	7.76	-71.22	-71.47	-68.33	-60.57	-41.20	-19.37
5795MHz	Pass	1G	5.645G	PK	5.52597G	7.76	-51.11	-50.09	-47.56	-39.80	-27.00	-12.80
5795MHz	Pass	5.645G	5.725G	PK	5.64644G	7.76	-50.04	-47.64	-45.67	-37.91	-27.00	-10.91
5795MHz	Pass	5.725G	5.85G	PK	5.85G	7.76	-59.62	-59.18	-56.38	-48.62	27.00	-75.62
5795MHz	Pass	5.85G	5.93G	PK	5.92728G	7.76	-48.16	-47.35	-44.73	-36.97	-27.00	-9.97
5795MHz	Pass	5.93G	8G	PK	5.94604G	7.76	-49.51	-47.90	-45.62	-37.86	-27.00	-10.86
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	1G	5.565G	AV	5.42406G	7.60	-60.22	-60.96	-57.56	-49.96	-41.20	-8.76
5775MHz	Pass	6.01G	8G	AV	7.27688G	7.60	-71.51	-71.56	-68.52	-60.92	-41.20	-19.72
5775MHz	Pass	1G	5.565G	PK	5.55815G	7.60	-49.95	-48.97	-46.42	-38.82	-27.00	-11.82
5775MHz	Pass	5.565G	5.725G	PK	5.64948G	7.60	-45.46	-43.02	-41.06	-33.46	-27.00	-6.46
5775MHz	Pass	5.725G	5.85G	PK	5.85G	7.60	-58.87	-59.67	-56.24	-48.64	27.00	-75.64
5775MHz	Pass	5.85G	6.01G	PK	5.92552G	7.60	-44.88	-43.52	-41.14	-33.54	-27.00	-6.54
5775MHz	Pass	6.01G	8G	PK	6.0105G	7.60	-48.43	-51.82	-46.79	-39.19	-27.00	-12.19

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

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

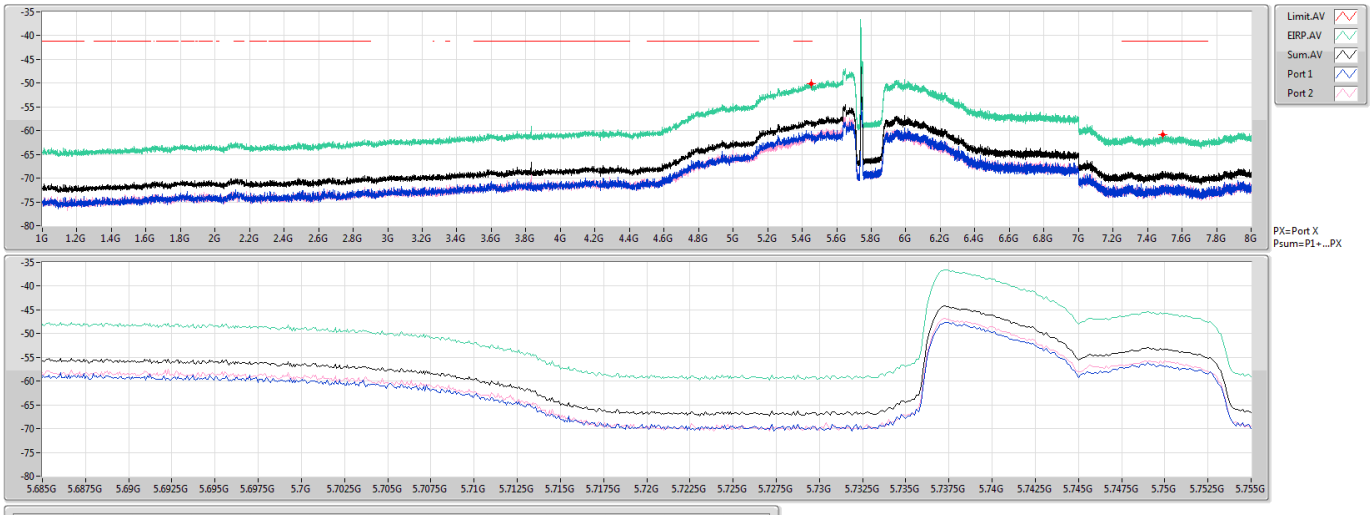
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	PK	5.65045G	-37.63	-26.67	-10.96	7.60	0.00	-45.23	-47.57	-49.04
5.685G	5.725G	1M	PK	5.68532G	-37.30	-0.86	-36.44	7.60	0.00	-44.90	-49.69	-46.65
5.725G	5.85G	1M	PK	5.85G	-48.47	27.00	-75.47	7.60	0.00	-56.07	-59.36	-58.81
5.85G	5.89G	1M	PK	5.88872G	-38.97	-0.15	-38.82	7.60	0.00	-46.57	-50.87	-48.59
5.89G	8G	1M	PK	5.95014G	-39.55	-27.00	-12.55	7.60	0.00	-47.15	-49.34	-51.18

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

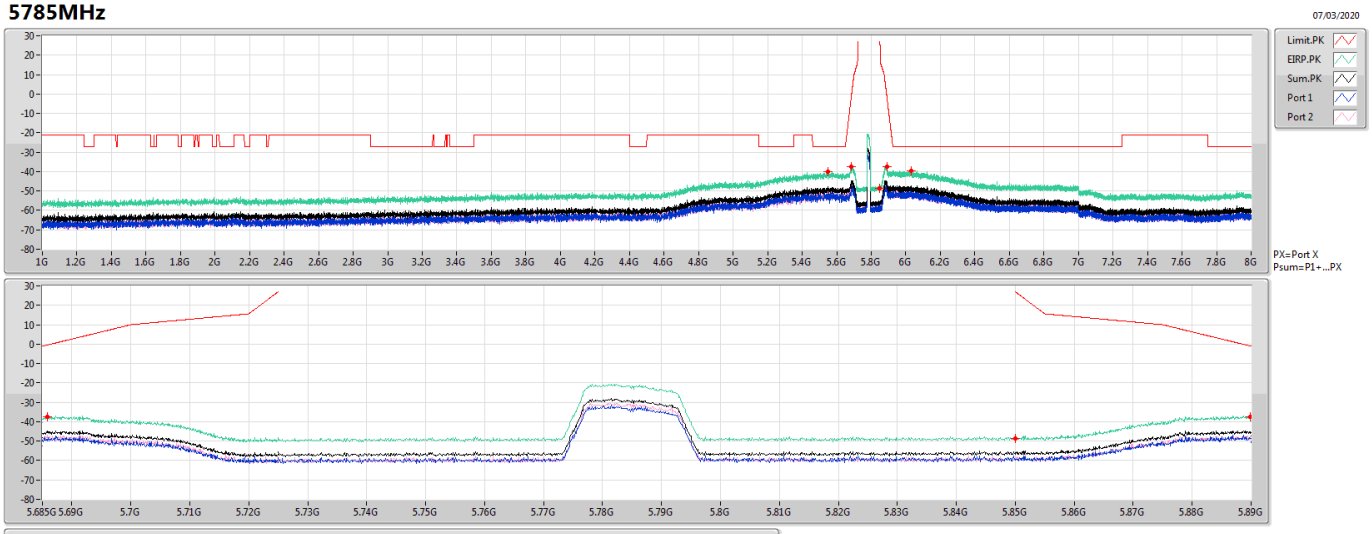
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	AV	5.45309G	-50.19	-41.20	-8.99	7.60	0.00	-57.79	-60.16	-61.55
5.89G	8G	1M	AV	7.49017G	-60.92	-41.20	-19.72	7.60	0.00	-68.52	-71.60	-71.46

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

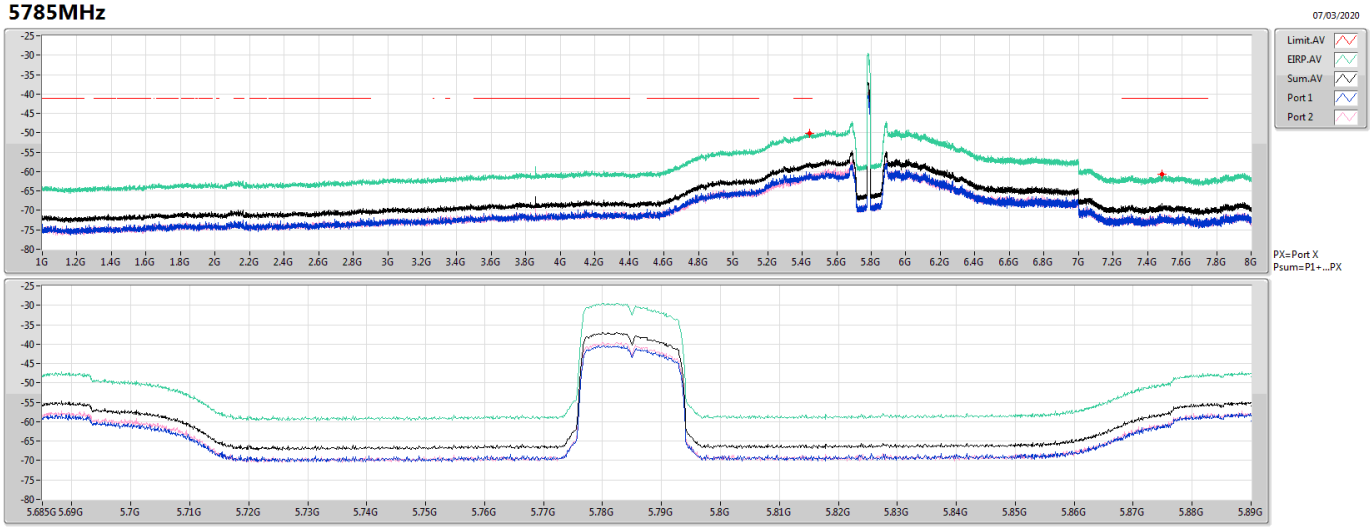
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	PK	5.55148G	-40.25	-27.00	-13.25	7.60	0.00	-47.85	-52.24	-49.81
5.685G	5.725G	1M	PK	5.6858G	-37.31	-0.51	-36.80	7.60	0.00	-44.91	-48.91	-47.11
5.725G	5.85G	1M	PK	5.85G	-48.55	27.00	-75.55	7.60	0.00	-56.15	-59.45	-58.88
5.85G	5.89G	1M	PK	5.88992G	-37.50	-1.04	-36.46	7.60	0.00	-45.10	-48.72	-47.58
5.89G	8G	1M	PK	6.03111G	-39.55	-27.00	-12.55	7.60	0.00	-47.15	-49.88	-50.45

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

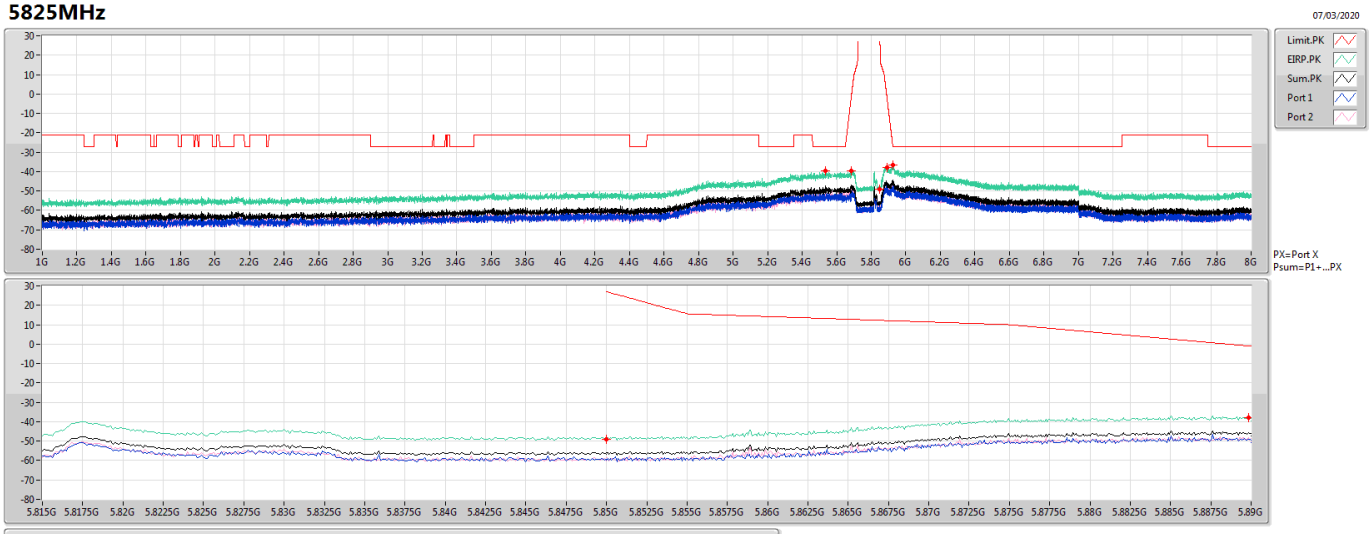
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	AV	5.44314G	-50.10	-41.20	-8.90	7.60	0.00	-57.70	-60.47	-60.96
5.89G	8G	1M	AV	7.4849G	-60.64	-41.20	-19.44	7.60	0.00	-68.24	-71.57	-70.95

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

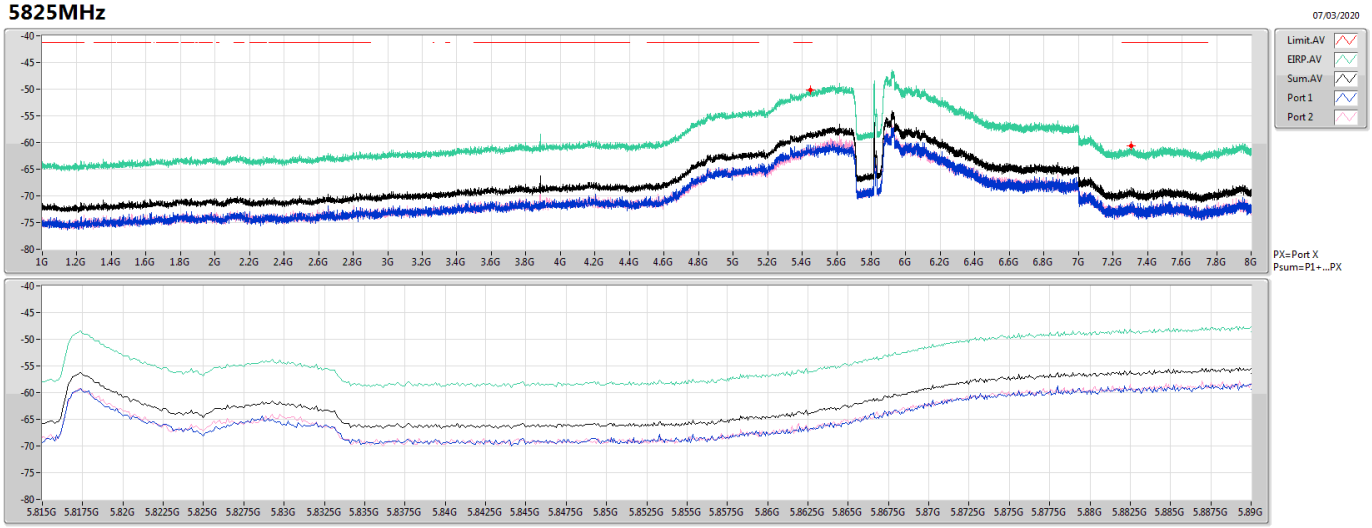
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	PK	5.53508G	-39.79	-27.00	-12.79	7.76	0.00	-47.55	-54.44	-48.55
5.685G	5.725G	1M	PK	5.685G	-39.68	-1.10	-38.58	7.76	0.00	-47.44	-51.93	-49.35
5.725G	5.85G	1M	PK	5.85G	-49.14	27.00	-76.14	7.76	0.00	-56.90	-59.48	-60.39
5.85G	5.89G	1M	PK	5.88984G	-37.92	-0.98	-36.94	7.76	0.00	-45.68	-49.11	-48.30
5.89G	8G	1M	PK	5.92772G	-36.71	-27.00	-9.71	7.76	0.00	-44.47	-46.87	-48.18

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	AV	5.44841G	-50.16	-41.20	-8.96	7.76	0.00	-57.92	-60.48	-61.43
5.89G	8G	1M	AV	7.30344G	-60.61	-41.20	-19.41	7.76	0.00	-68.37	-71.23	-71.54

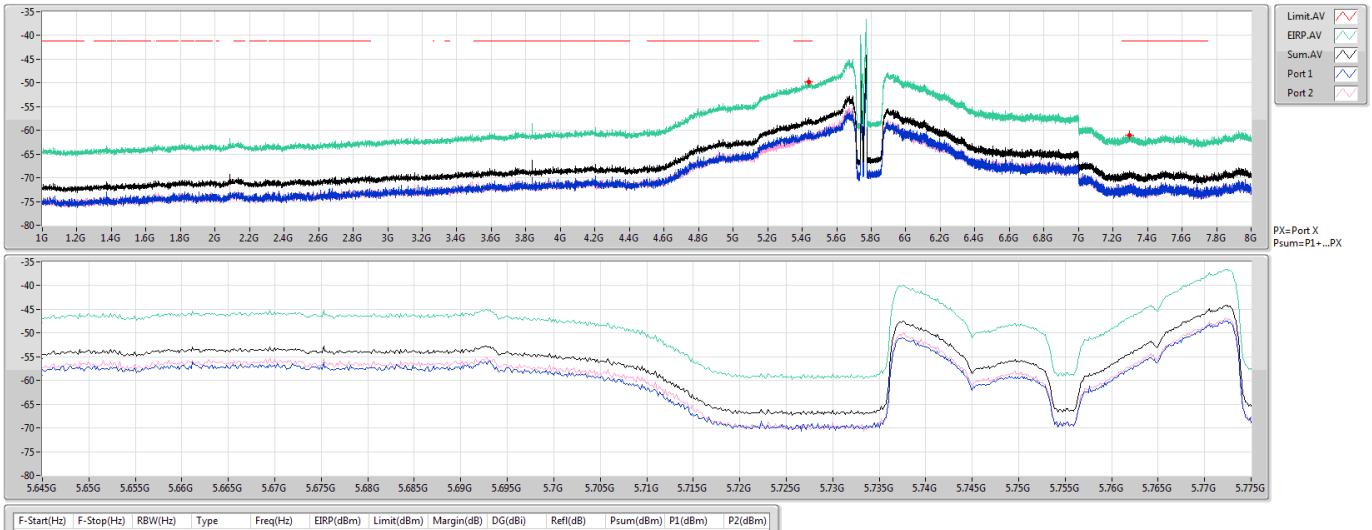
11a40_Nss1,(6Mbps)_2TX **CSE-PK**

5755MHz

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	PK	5.63803G	-38.48	-27.00	-11.48	7.60	0.00	-46.08	-50.71	-47.91
5.645G	5.725G	1M	PK	5.64996G	-35.70	-27.00	-8.70	7.60	0.00	-43.30	-48.44	-44.89
5.725G	5.85G	1M	PK	5.85G	-49.27	27.00	-76.27	7.60	0.00	-56.87	-59.40	-60.41
5.85G	5.93G	1M	PK	5.92872G	-38.06	-27.00	-11.06	7.60	0.00	-45.66	-48.73	-48.62
5.93G	8G	1M	PK	5.93207G	-39.10	-27.00	-12.10	7.60	0.00	-46.70	-50.84	-48.81

11a40_Nss1,(6Mbps)_2TX **CSE-AV**

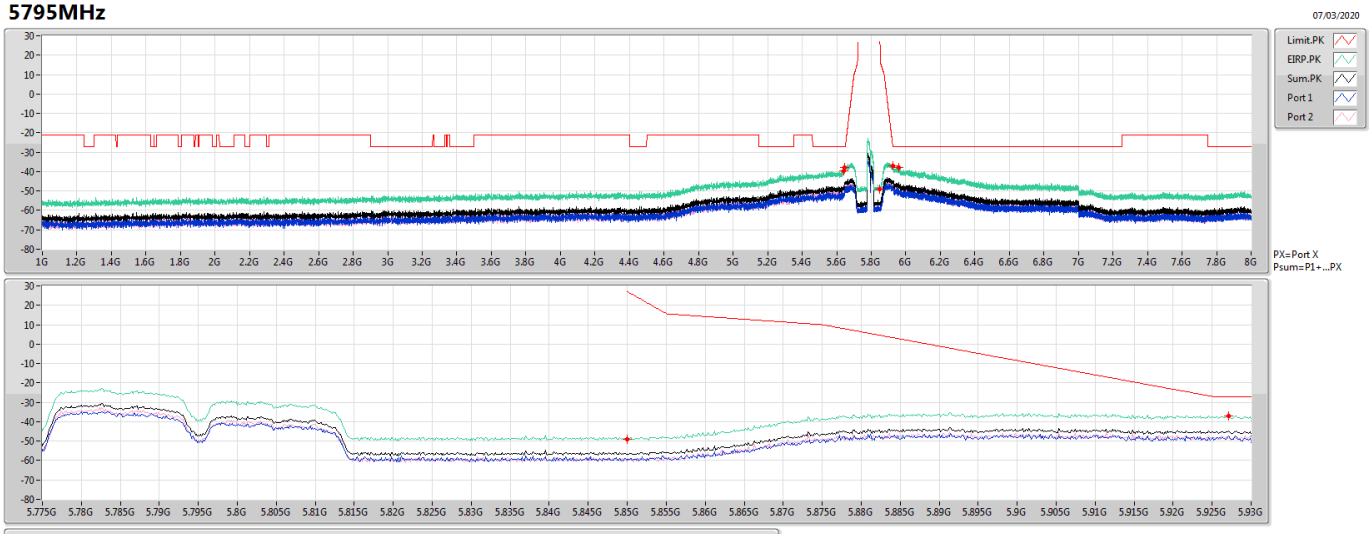
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	AV	5.44062G	-49.81	-41.20	-8.61	7.60	0.00	-57.41	-60.00	-60.88
5.93G	8G	1M	AV	7.29465G	-60.96	-41.20	-19.76	7.60	0.00	-68.56	-72.39	-70.88

11a40_Nss1,(6Mbps)_2TX **CSE-PK**

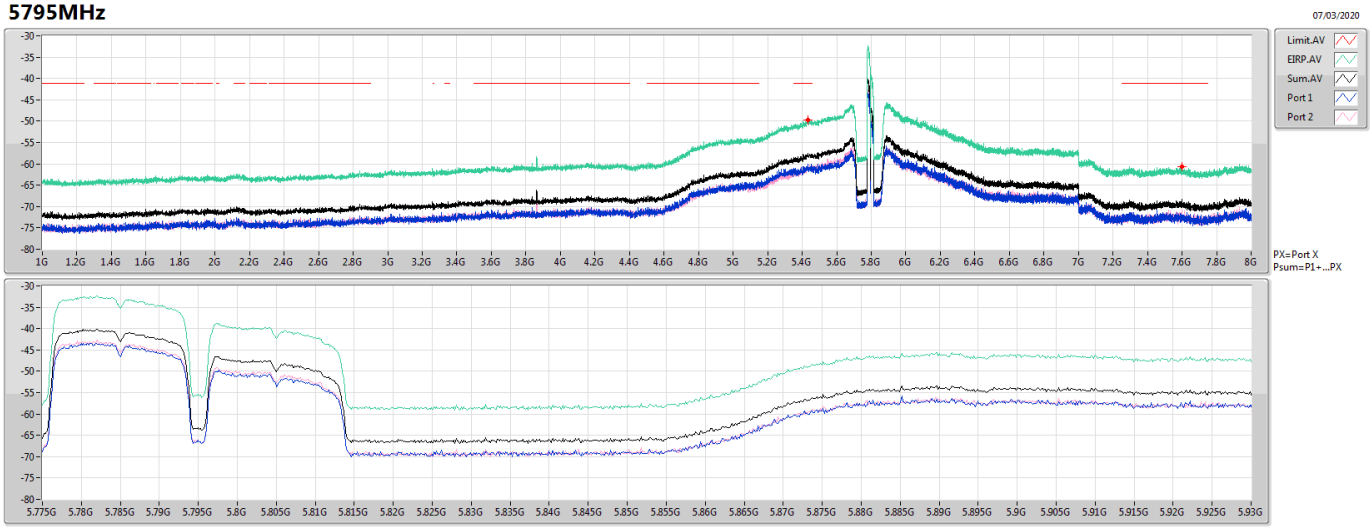
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	PK	5.64036G	-39.67	-27.00	-12.67	7.76	0.00	-47.43	-51.79	-49.41
5.645G	5.725G	1M	PK	5.64564G	-37.76	-27.00	-10.76	7.76	0.00	-45.52	-49.92	-47.48
5.725G	5.85G	1M	PK	5.85G	-48.93	27.00	-75.93	7.76	0.00	-56.69	-59.22	-60.24
5.85G	5.93G	1M	PK	5.92712G	-37.09	-27.00	-10.09	7.76	0.00	-44.85	-47.34	-48.45
5.93G	8G	1M	PK	5.9582G	-37.94	-27.00	-10.94	7.76	0.00	-45.70	-49.19	-48.28

11a40_Nss1,(6Mbps)_2TX **CSE-AV**

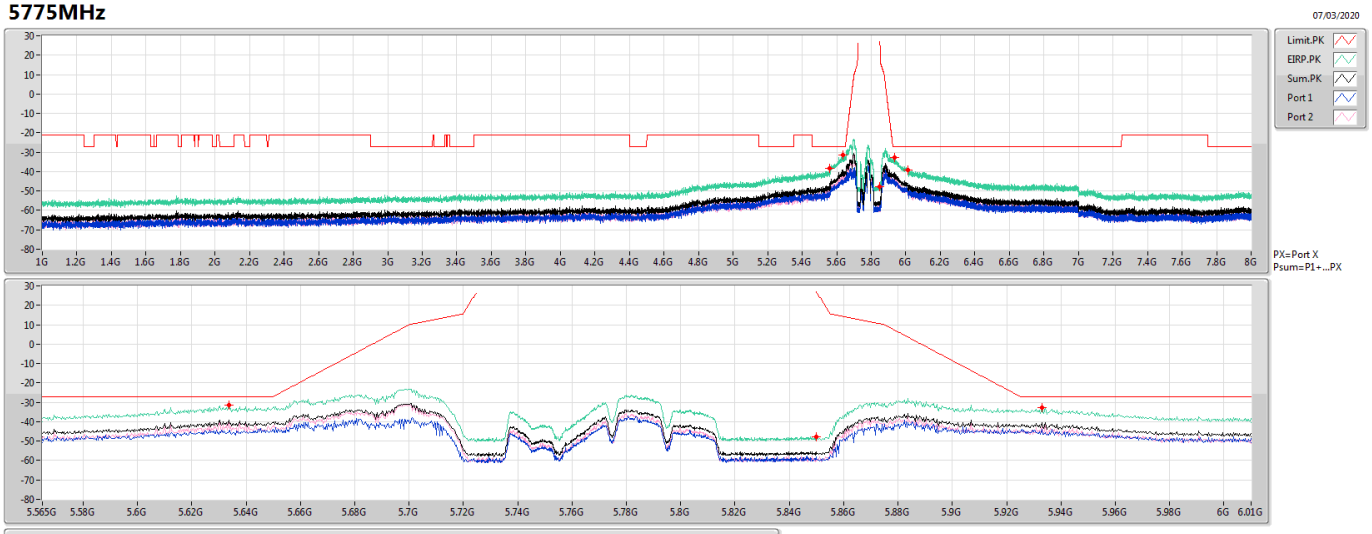
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	AV	5.43249G	-49.70	-41.20	-8.50	7.76	0.00	-57.46	-60.08	-60.91
5.93G	8G	1M	AV	7.59868G	-60.61	-41.20	-19.41	7.76	0.00	-68.37	-72.21	-70.69

11a80_Nss1,(6Mbps)_2TX **CSE-PK**

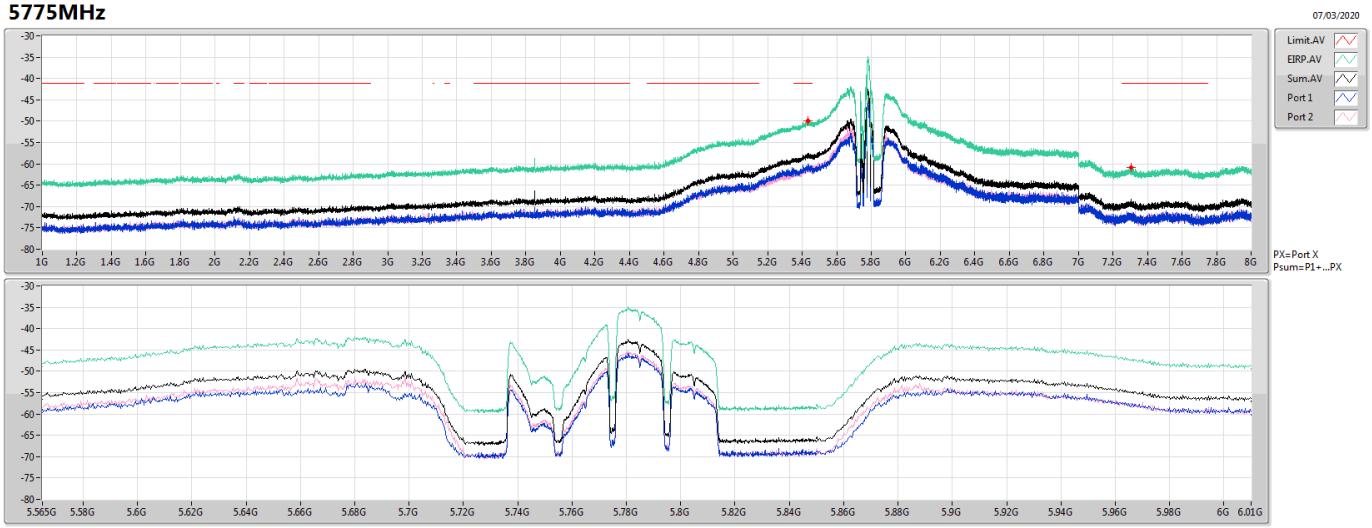
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.565G	1M	PK	5.56044G	-38.49	-27.00	-11.49	7.60	0.00	-46.09	-50.62	-47.97
5.565G	5.725G	1M	PK	5.6338G	-31.56	-27.00	-4.56	7.60	0.00	-39.16	-45.18	-40.41
5.725G	5.85G	1M	PK	5.85G	-47.91	27.00	-74.91	7.60	0.00	-55.51	-57.97	-59.16
5.85G	6.01G	1M	PK	5.93288G	-32.68	-27.00	-5.68	7.60	0.00	-40.28	-44.00	-42.68
6.01G	8G	1M	PK	6.01473G	-39.36	-27.00	-12.36	7.60	0.00	-46.96	-51.10	-49.07

11a80_Nss1,(6Mbps)_2TX **CSE-AV**

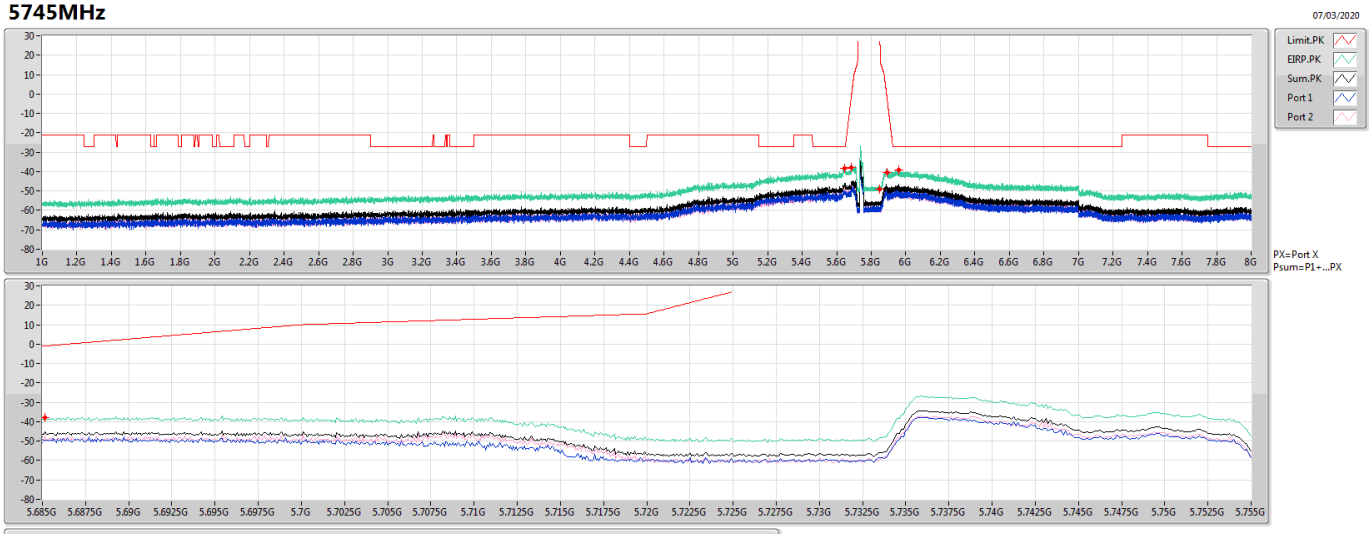
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.565G	1M	AV	5.43262G	-49.99	-41.20	-8.79	7.60	0.00	-57.59	-60.04	-61.24
6.01G	8G	1M	AV	7.30524G	-60.78	-41.20	-19.58	7.60	0.00	-68.38	-71.51	-71.27

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

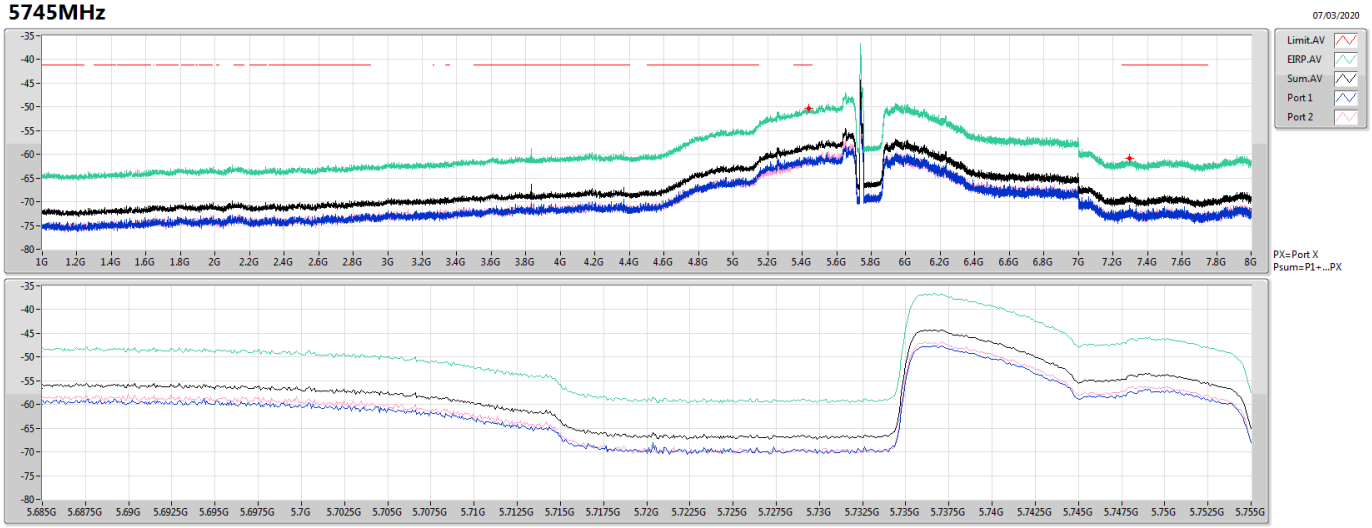
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	PK	5.64635G	-38.36	-27.00	-11.36	7.60	0.00	-45.96	-51.65	-47.33
5.685G	5.725G	1M	PK	5.68516G	-37.72	-0.98	-36.74	7.60	0.00	-45.32	-49.49	-47.41
5.725G	5.85G	1M	PK	5.85G	-49.16	27.00	-76.16	7.60	0.00	-56.76	-60.00	-59.56
5.85G	5.89G	1M	PK	5.89G	-40.48	-1.10	-39.38	7.60	0.00	-48.08	-50.75	-51.46
5.89G	8G	1M	PK	5.95884G	-39.01	-27.00	-12.01	7.60	0.00	-46.61	-50.31	-49.02

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

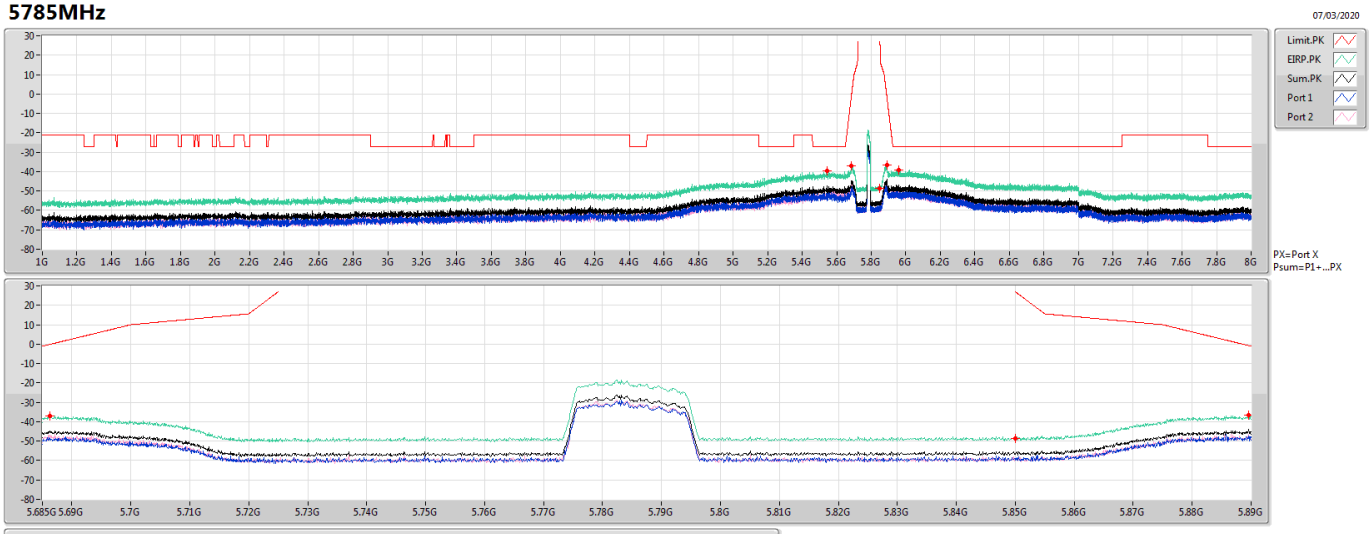
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	AV	5.44021G	-50.31	-41.20	-9.11	7.60	0.00	-57.91	-60.94	-60.91
5.89G	8G	1M	AV	7.29552G	-60.77	-41.20	-19.57	7.60	0.00	-68.37	-70.66	-72.25

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

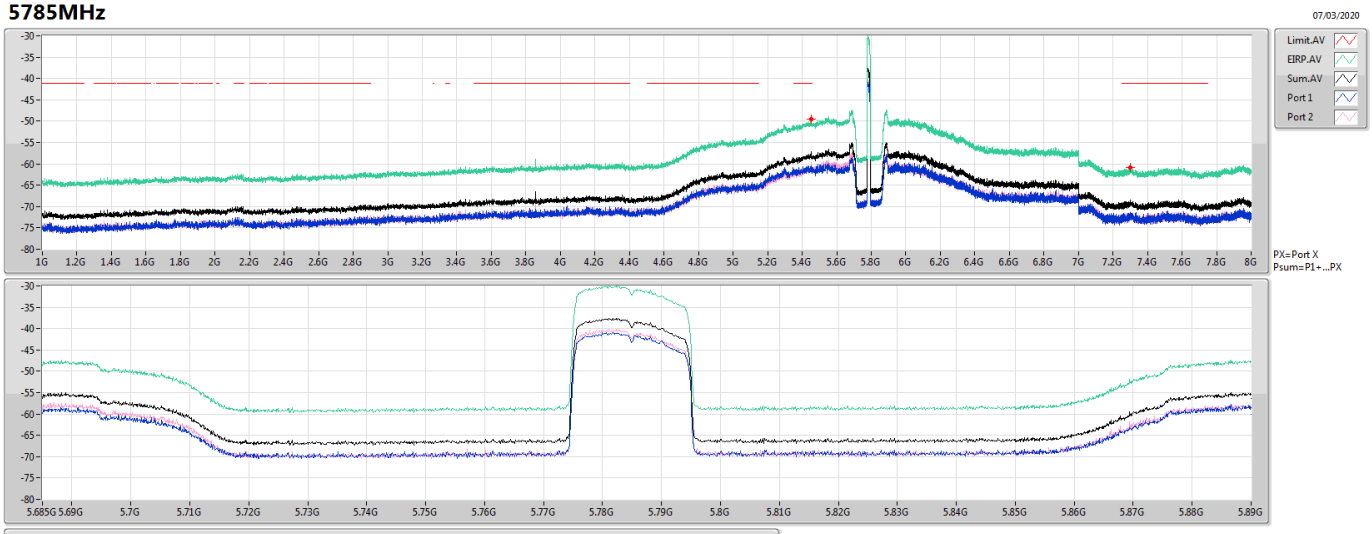
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	PK	5.54211G	-39.79	-27.00	-12.79	7.60	0.00	-47.39	-50.74	-50.09
5.685G	5.725G	1M	PK	5.68628G	-37.19	-0.15	-37.04	7.60	0.00	-44.79	-48.63	-47.10
5.725G	5.85G	1M	PK	5.85G	-48.69	27.00	-75.69	7.60	0.00	-56.29	-58.99	-59.64
5.85G	5.89G	1M	PK	5.8896G	-36.39	-0.80	-35.59	7.60	0.00	-43.99	-47.52	-46.53
5.89G	8G	1M	PK	5.96174G	-39.14	-27.00	-12.14	7.60	0.00	-46.74	-51.68	-48.42

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

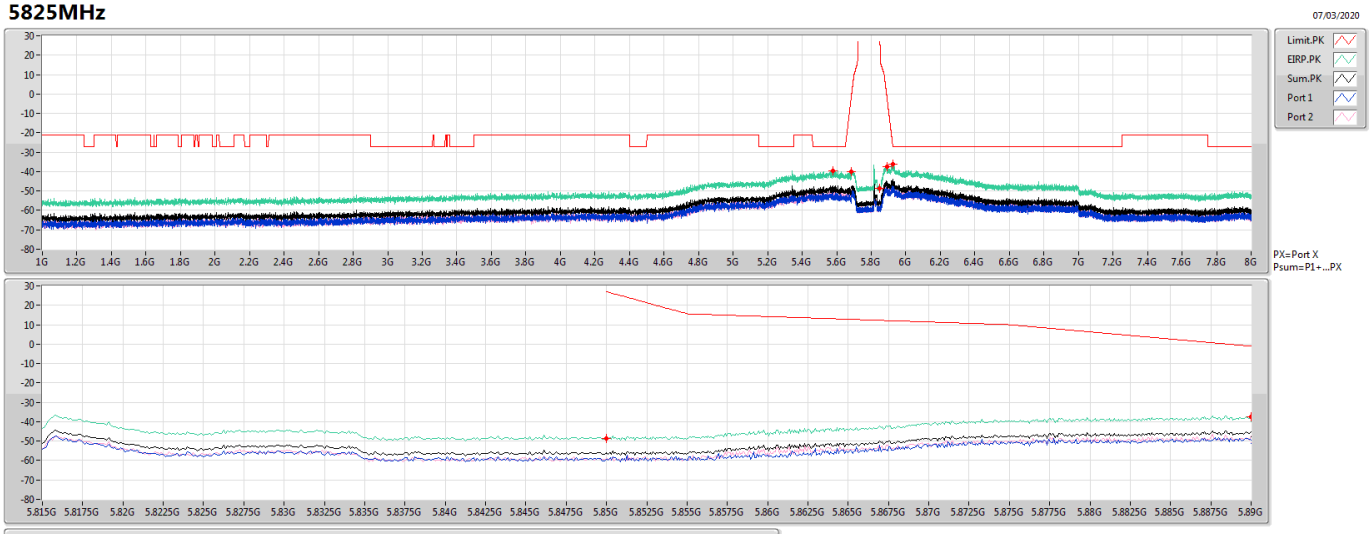
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	AV	5.45368G	-49.47	-41.20	-8.27	7.60	0.00	-57.07	-60.51	-59.69
5.89G	8G	1M	AV	7.30001G	-60.84	-41.20	-19.64	7.60	0.00	-68.44	-71.63	-71.28

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

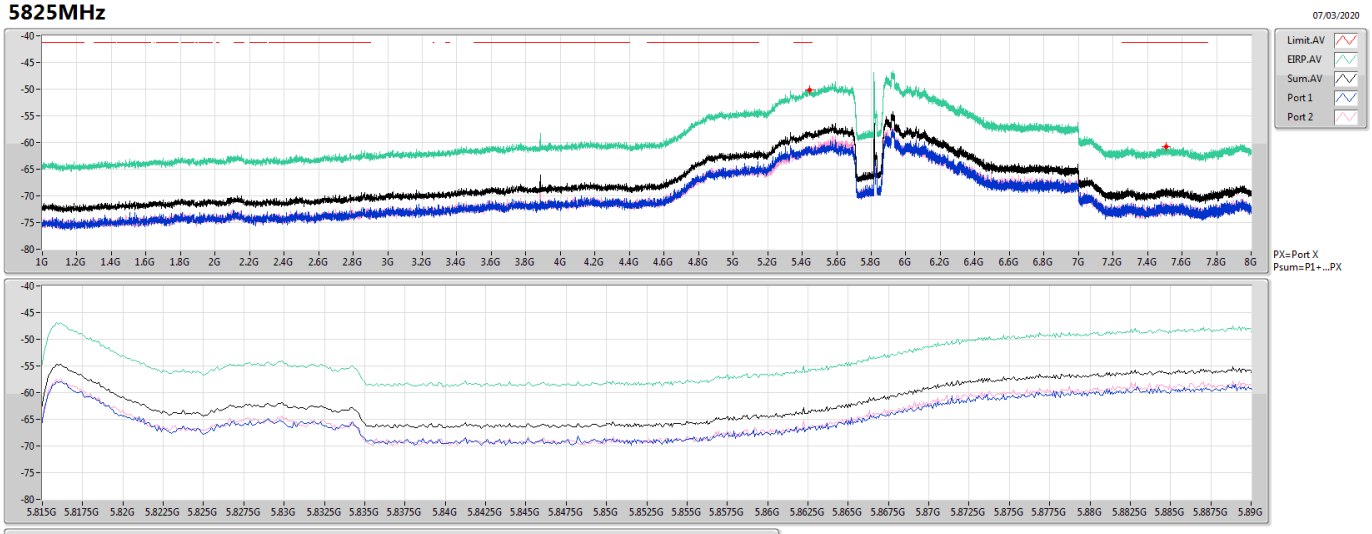
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	PK	5.579G	-39.40	-27.00	-12.40	7.76	0.00	-47.16	-49.83	-50.53
5.685G	5.725G	1M	PK	5.685G	-40.15	-1.10	-39.05	7.76	0.00	-47.91	-51.23	-50.64
5.725G	5.85G	1M	PK	5.85G	-48.59	27.00	-75.59	7.76	0.00	-56.35	-59.44	-59.28
5.85G	5.89G	1M	PK	5.89G	-37.47	-1.10	-36.37	7.76	0.00	-45.23	-49.60	-47.20
5.89G	8G	1M	PK	5.92561G	-36.13	-27.00	-9.13	7.76	0.00	-43.89	-47.65	-46.26

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

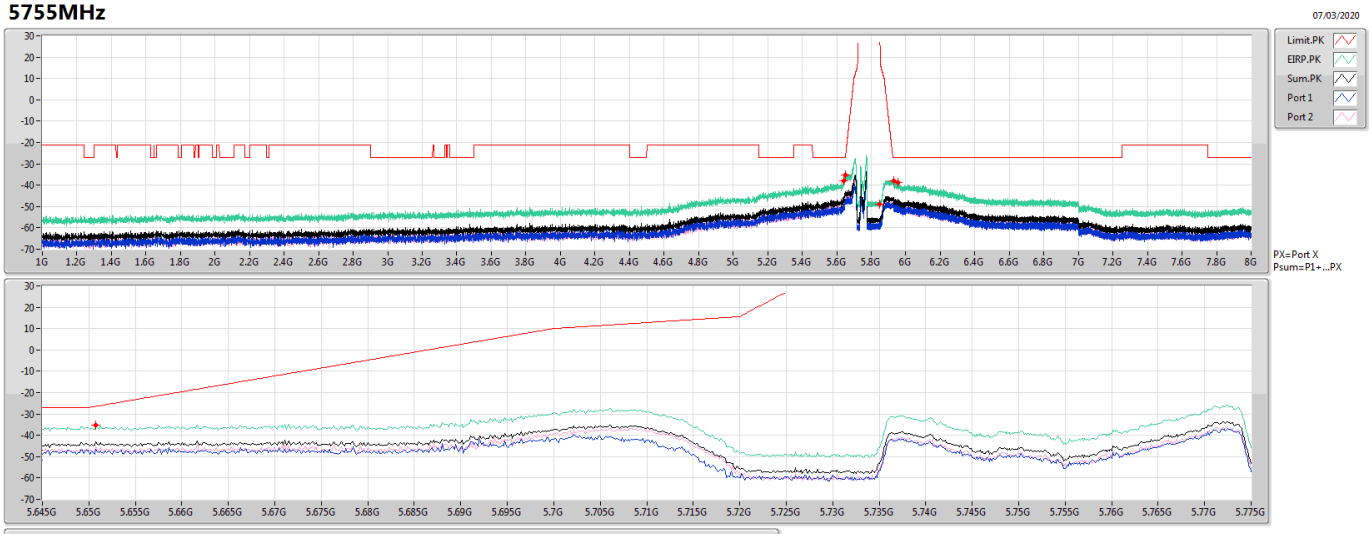
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.685G	1M	AV	5.44431G	-50.18	-41.20	-8.98	7.76	0.00	-57.94	-60.75	-61.15
5.89G	8G	1M	AV	7.5089G	-60.82	-41.20	-19.62	7.76	0.00	-68.58	-71.85	-71.35

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-PK**

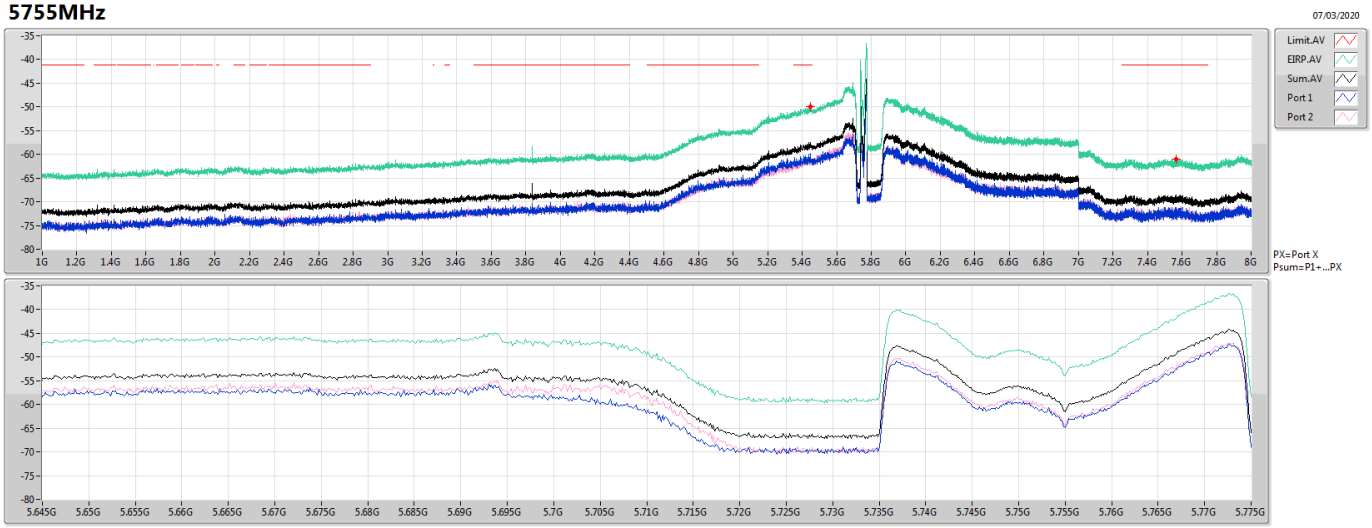
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	PK	5.63861G	-37.93	-27.00	-10.93	7.60	0.00	-45.53	-48.88	-48.22
5.645G	5.725G	1M	PK	5.65076G	-35.32	-26.44	-8.88	7.60	0.00	-42.92	-46.67	-45.29
5.725G	5.85G	1M	PK	5.85G	-48.85	27.00	-75.85	7.60	0.00	-56.45	-60.09	-58.91
5.85G	5.93G	1M	PK	5.9284G	-38.08	-27.00	-11.08	7.60	0.00	-45.68	-49.41	-48.07
5.93G	8G	1M	PK	5.95536G	-38.80	-27.00	-11.80	7.60	0.00	-46.40	-48.86	-50.03

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-AV**

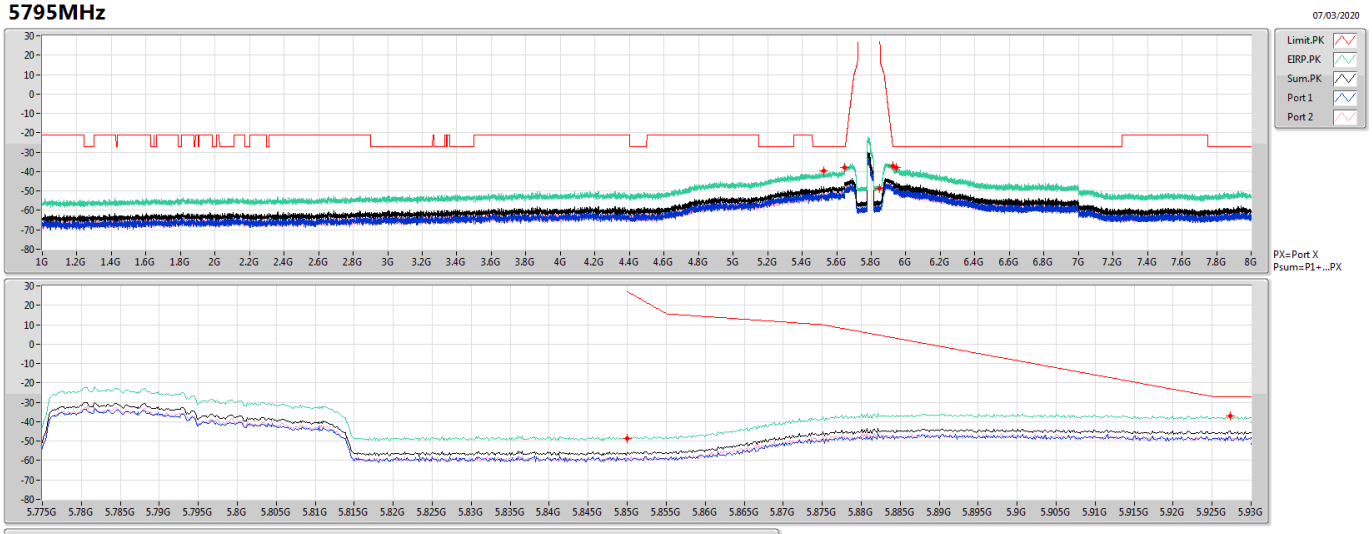
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	AV	5.44701G	-49.88	-41.20	-8.68	7.60	0.00	-57.48	-59.85	-61.25
5.93G	8G	1M	AV	7.56556G	-61.03	-41.20	-19.83	7.60	0.00	-68.63	-71.25	-72.06

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-PK**

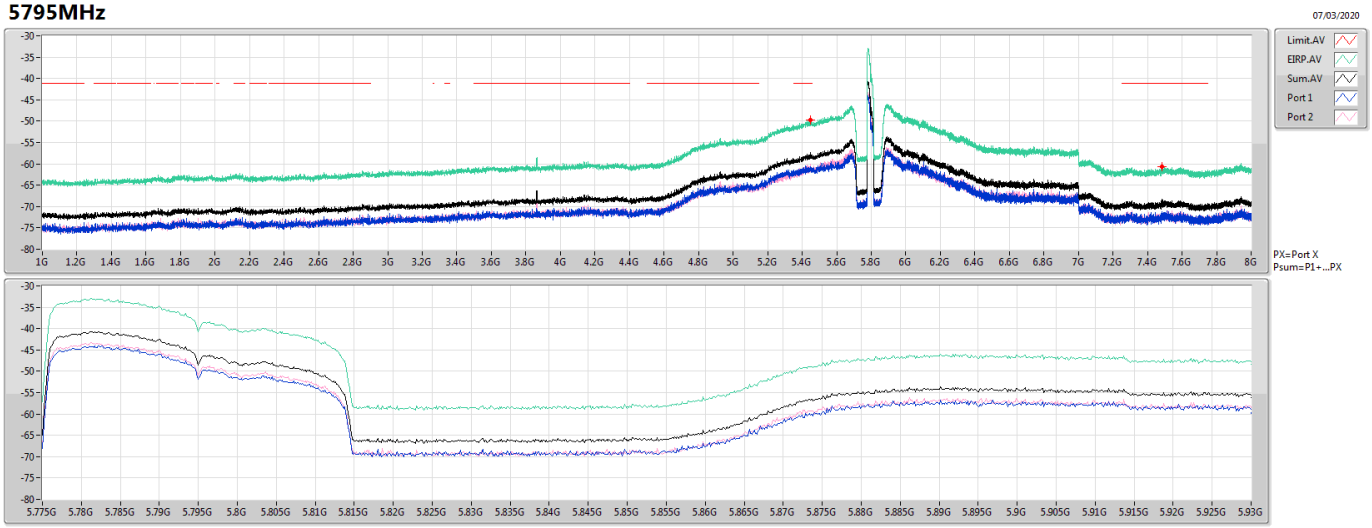
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	PK	5.52597G	-39.80	-27.00	-12.80	7.76	0.00	-47.56	-51.11	-50.09
5.645G	5.725G	1M	PK	5.64644G	-37.91	-27.00	-10.91	7.76	0.00	-45.67	-50.04	-47.64
5.725G	5.85G	1M	PK	5.85G	-48.62	27.00	-75.62	7.76	0.00	-56.38	-59.62	-59.18
5.85G	5.93G	1M	PK	5.92728G	-36.97	-27.00	-9.97	7.76	0.00	-44.73	-48.16	-47.35
5.93G	8G	1M	PK	5.94604G	-37.86	-27.00	-10.86	7.76	0.00	-45.62	-49.51	-47.90

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-AV**

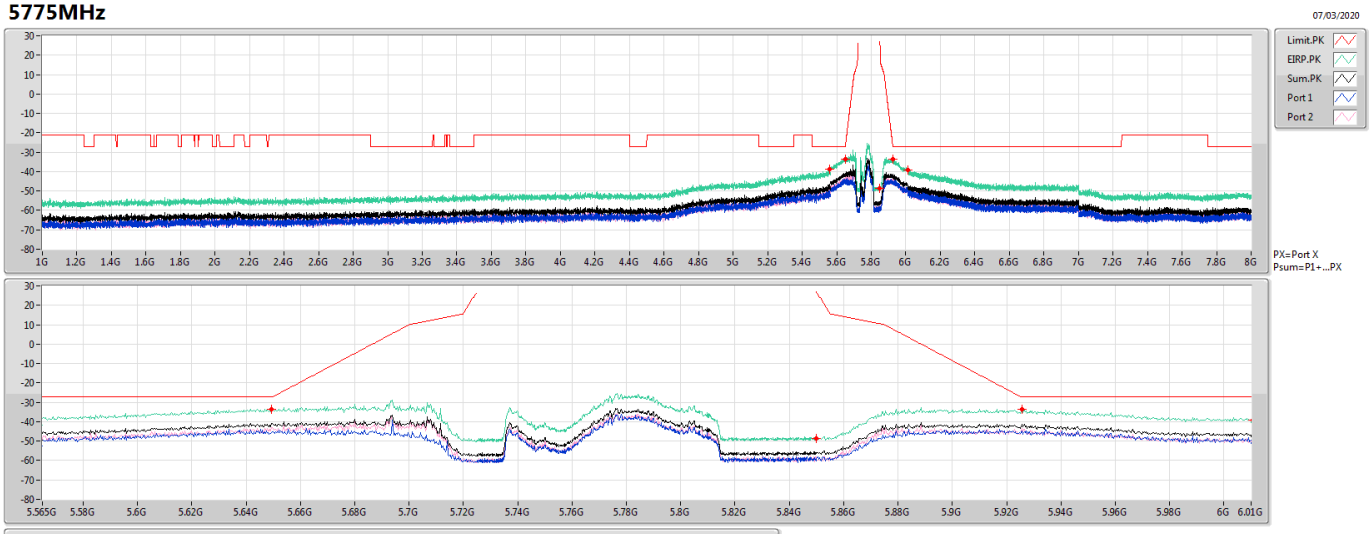
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.645G	1M	AV	5.44991G	-49.64	-41.20	-8.44	7.76	0.00	-57.40	-60.76	-60.08
5.93G	8G	1M	AV	7.48147G	-60.57	-41.20	-19.37	7.76	0.00	-68.33	-71.22	-71.47

802.11ax HEW80_Nss1,(MCS0)_2TX **CSE-PK**

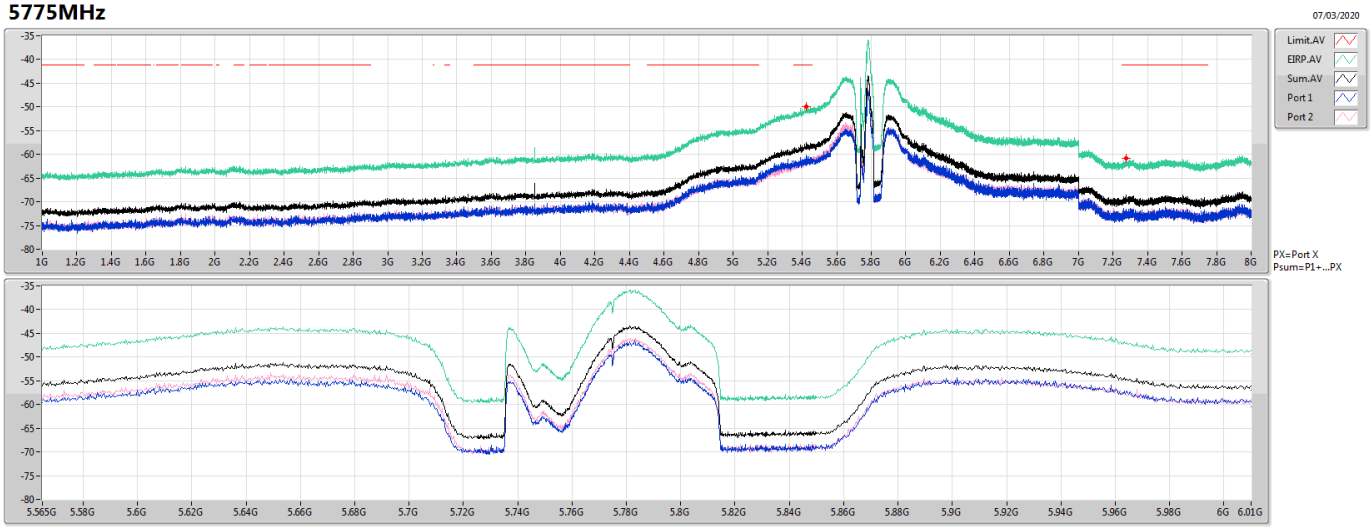
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.565G	1M	PK	5.55815G	-38.82	-27.00	-11.82	7.60	0.00	-46.42	-49.95	-48.97
5.565G	5.725G	1M	PK	5.64948G	-33.46	-27.00	-6.46	7.60	0.00	-41.06	-45.46	-43.02
5.725G	5.85G	1M	PK	5.85G	-48.64	27.00	-75.64	7.60	0.00	-56.24	-58.87	-59.67
5.85G	6.01G	1M	PK	5.92552G	-33.54	-27.00	-6.54	7.60	0.00	-41.14	-44.88	-43.52
6.01G	8G	1M	PK	6.0105G	-39.19	-27.00	-12.19	7.60	0.00	-46.79	-48.43	-51.82

802.11ax HEW80_Nss1,(MCS0)_2TX **CSE-AV**

5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	5.565G	1M	AV	5.42406G	-49.96	-41.20	-8.76	7.60	0.00	-57.56	-60.22	-60.96
6.01G	8G	1M	AV	7.27688G	-60.92	-41.20	-19.72	7.60	0.00	-68.52	-71.51	-71.56

<2T1S>

For Conducted Harmonic (8~40GHz):

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	Pass	8G	12G	AV	11.65G	7.76	-70.40	-65.40	-64.21	-56.45	-41.20	-15.25
11a40_Nss1,(6Mbps)_2TX	Pass	8G	12G	AV	11.59G	7.76	-73.22	-70.32	-68.52	-60.76	-41.20	-19.56
11a80_Nss1,(6Mbps)_2TX	Pass	12G	40G	AV	40G	7.60	-74.04	-74.06	-71.04	-63.44	-41.20	-22.24
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	8G	12G	AV	11.651G	7.76	-70.68	-65.22	-64.13	-56.37	-41.20	-15.17
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	8G	12G	AV	11.5835G	7.76	-72.98	-71.51	-69.17	-61.41	-41.20	-20.21
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	8G	12G	AV	11.5455G	7.60	-68.72	-73.96	-67.58	-59.98	-41.20	-18.78

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

Result

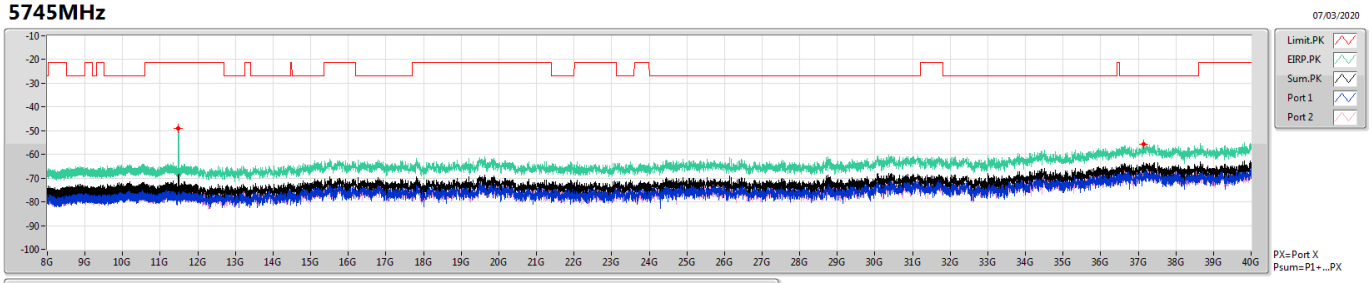
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	8G	12G	AV	11.4905G	7.60	-69.58	-69.53	-66.54	-58.94	-41.20	-17.74
5745MHz	Pass	12G	40G	AV	39.993G	7.60	-73.61	-73.99	-70.79	-63.19	-41.20	-21.99
5745MHz	Pass	8G	12G	PK	11.4855G	7.60	-62.86	-57.92	-56.71	-49.11	-21.20	-27.91
5745MHz	Pass	12G	40G	PK	37.1475G	7.60	-64.41	-70.29	-63.41	-55.81	-27.00	-28.81
5785MHz	Pass	8G	12G	AV	11.5695G	7.60	-69.51	-65.93	-64.35	-56.75	-41.20	-15.55
5785MHz	Pass	12G	40G	AV	39.9965G	7.60	-73.79	-74.12	-70.94	-63.34	-41.20	-22.14
5785MHz	Pass	8G	12G	PK	11.571G	7.60	-61.99	-55.90	-54.94	-47.34	-21.20	-26.14
5785MHz	Pass	12G	40G	PK	37.361G	7.60	-65.60	-64.56	-62.04	-54.44	-27.00	-27.44
5825MHz	Pass	8G	12G	AV	11.65G	7.76	-70.40	-65.40	-64.21	-56.45	-41.20	-15.25
5825MHz	Pass	12G	40G	AV	39.9965G	7.76	-74.38	-74.01	-71.18	-63.42	-41.20	-22.22
5825MHz	Pass	8G	12G	PK	11.6565G	7.76	-62.35	-56.50	-55.50	-47.74	-21.20	-26.54
5825MHz	Pass	12G	40G	PK	37.228G	7.76	-65.67	-66.20	-62.92	-55.16	-27.00	-28.16
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	8G	12G	AV	11.51G	7.60	-73.73	-71.57	-69.51	-61.91	-41.20	-20.71
5755MHz	Pass	12G	40G	AV	39.9825G	7.60	-73.67	-74.45	-71.03	-63.43	-41.20	-22.23
5755MHz	Pass	8G	12G	PK	11.5075G	7.60	-62.74	-62.91	-59.81	-52.21	-21.20	-31.01
5755MHz	Pass	12G	40G	PK	36.6155G	7.60	-64.50	-67.24	-62.65	-55.05	-27.00	-28.05
5795MHz	Pass	8G	12G	AV	11.59G	7.76	-73.22	-70.32	-68.52	-60.76	-41.20	-19.56
5795MHz	Pass	12G	40G	AV	39.9965G	7.76	-73.64	-73.38	-70.50	-62.74	-41.20	-21.54
5795MHz	Pass	8G	12G	PK	11.587G	7.76	-65.69	-59.99	-58.95	-51.19	-21.20	-29.99
5795MHz	Pass	12G	40G	PK	36.6785G	7.76	-66.13	-66.06	-63.08	-55.32	-27.00	-28.32
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	8G	12G	AV	11.559G	7.60	-76.77	-72.73	-71.29	-63.69	-41.20	-22.49
5775MHz	Pass	12G	40G	AV	40G	7.60	-74.04	-74.06	-71.04	-63.44	-41.20	-22.24
5775MHz	Pass	8G	12G	PK	11.563G	7.60	-66.15	-64.19	-62.05	-54.45	-21.20	-33.25
5775MHz	Pass	12G	40G	PK	36.6855G	7.60	-66.91	-65.60	-63.20	-55.60	-27.00	-28.60
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	8G	12G	AV	11.4905G	7.60	-70.39	-68.57	-66.38	-58.78	-41.20	-17.58
5745MHz	Pass	12G	40G	AV	40G	7.60	-73.56	-73.68	-70.61	-63.01	-41.20	-21.81
5745MHz	Pass	8G	12G	PK	11.4885G	7.60	-64.22	-59.13	-57.96	-50.36	-21.20	-29.16
5745MHz	Pass	12G	40G	PK	37.2035G	7.60	-65.34	-68.21	-63.53	-55.93	-27.00	-28.93
5785MHz	Pass	8G	12G	AV	11.57G	7.60	-70.06	-66.44	-64.87	-57.27	-41.20	-16.07
5785MHz	Pass	12G	40G	AV	40G	7.60	-74.45	-73.71	-71.05	-63.45	-41.20	-22.25
5785MHz	Pass	8G	12G	PK	11.5685G	7.60	-62.06	-55.98	-55.02	-47.42	-21.20	-26.22
5785MHz	Pass	12G	40G	PK	37.1965G	7.60	-68.34	-64.71	-63.15	-55.55	-27.00	-28.55
5825MHz	Pass	8G	12G	AV	11.651G	7.76	-70.68	-65.22	-64.13	-56.37	-41.20	-15.17
5825MHz	Pass	12G	40G	AV	40G	7.76	-74.20	-73.44	-70.79	-63.03	-41.20	-21.83
5825MHz	Pass	8G	12G	PK	11.654G	7.76	-61.46	-57.51	-56.04	-48.28	-21.20	-27.08
5825MHz	Pass	12G	40G	PK	37.221G	7.76	-66.48	-66.19	-63.32	-55.56	-27.00	-28.56
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	8G	12G	AV	11.51G	7.60	-73.08	-72.03	-69.51	-61.91	-41.20	-20.71
5755MHz	Pass	12G	40G	AV	40G	7.60	-73.47	-74.27	-70.84	-63.24	-41.20	-22.04
5755MHz	Pass	8G	12G	PK	11.511G	7.60	-65.14	-62.16	-60.39	-52.79	-21.20	-31.59
5755MHz	Pass	12G	40G	PK	37.123G	7.60	-68.87	-64.81	-63.37	-55.77	-27.00	-28.77
5795MHz	Pass	8G	12G	AV	11.5835G	7.76	-72.98	-71.51	-69.17	-61.41	-41.20	-20.21
5795MHz	Pass	12G	40G	AV	39.9965G	7.76	-73.81	-73.80	-70.79	-63.03	-41.20	-21.83
5795MHz	Pass	8G	12G	PK	11.589G	7.76	-66.23	-61.06	-59.91	-52.15	-21.20	-30.95

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5795MHz	Pass	12G	40G	PK	38.306G	7.76	-67.14	-65.27	-63.09	-55.33	-27.00	-28.33
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	8G	12G	AV	11.5455G	7.60	-68.72	-73.96	-67.58	-59.98	-41.20	-18.78
5775MHz	Pass	12G	40G	AV	39.993G	7.60	-74.72	-73.47	-71.04	-63.44	-41.20	-22.24
5775MHz	Pass	8G	12G	PK	11.5775G	7.60	-58.57	-69.24	-58.21	-50.61	-21.20	-29.41
5775MHz	Pass	12G	40G	PK	37.1755G	7.60	-65.61	-65.07	-62.32	-54.72	-27.00	-27.72

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

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

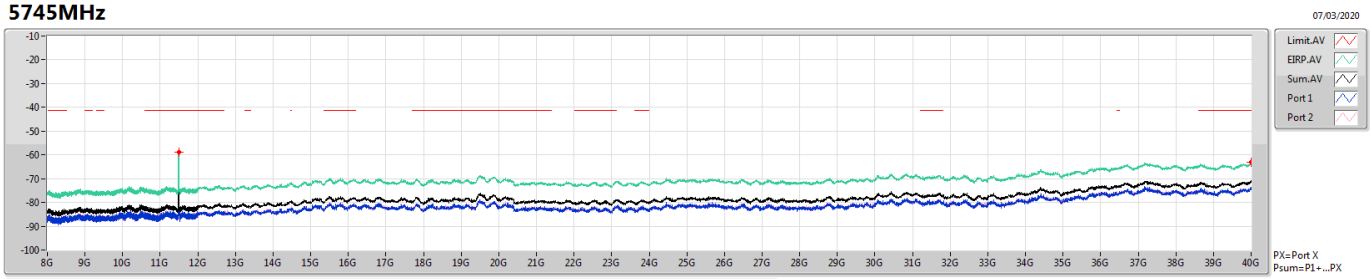
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.4855G	-49.11	-21.20	-27.91	7.60	0.00	-56.71	-62.86	-57.92
12G	40G	1M	PK	37.1475G	-55.81	-27.00	-28.81	7.60	0.00	-63.41	-64.41	-70.29

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

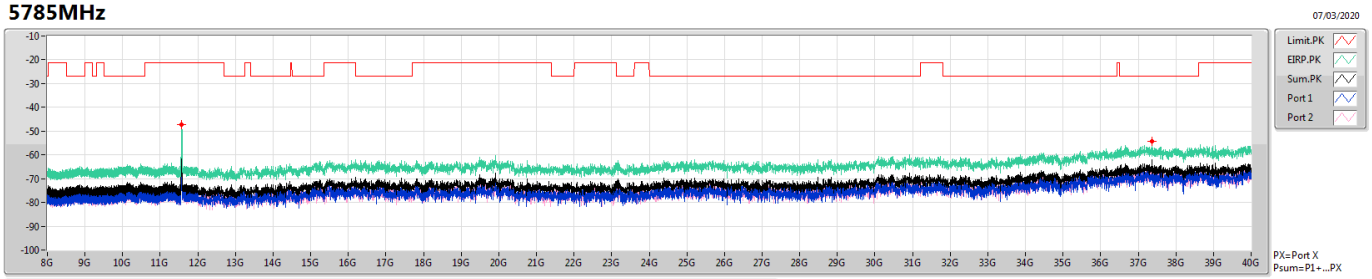
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.4905G	-58.94	-41.20	-17.74	7.60	0.00	-66.54	-69.58	-69.53
12G	40G	1M	AV	39.993G	-63.19	-41.20	-21.99	7.60	0.00	-70.79	-73.61	-73.99

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

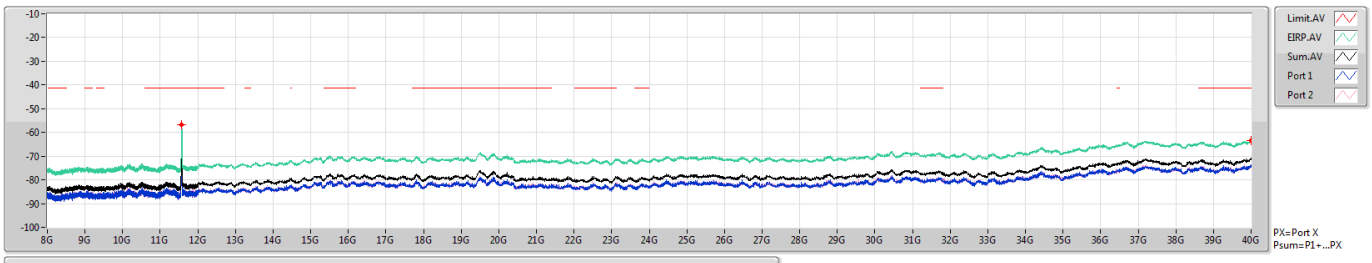
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.571G	-47.34	-21.20	-26.14	7.60	0.00	-54.94	-61.99	-55.90
12G	40G	1M	PK	37.361G	-54.44	-27.00	-27.44	7.60	0.00	-62.04	-65.60	-64.56

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

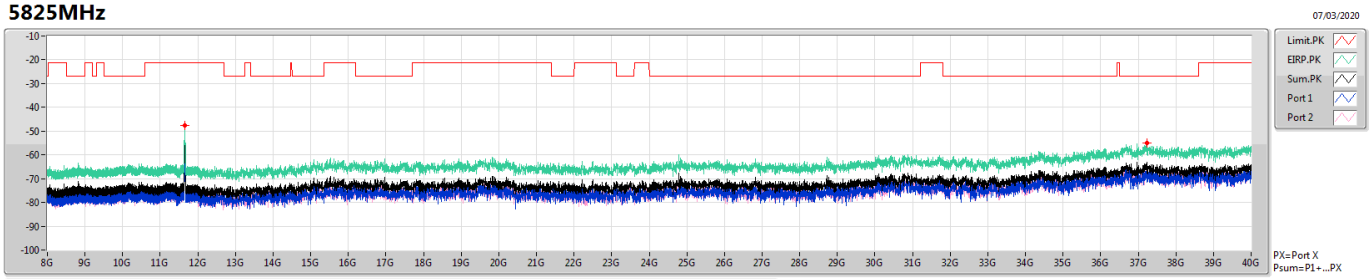
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.5695G	-56.75	-41.20	-15.55	7.60	0.00	-64.35	-69.51	-65.93
12G	40G	1M	AV	39.9965G	-63.34	-41.20	-22.14	7.60	0.00	-70.94	-73.79	-74.12

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

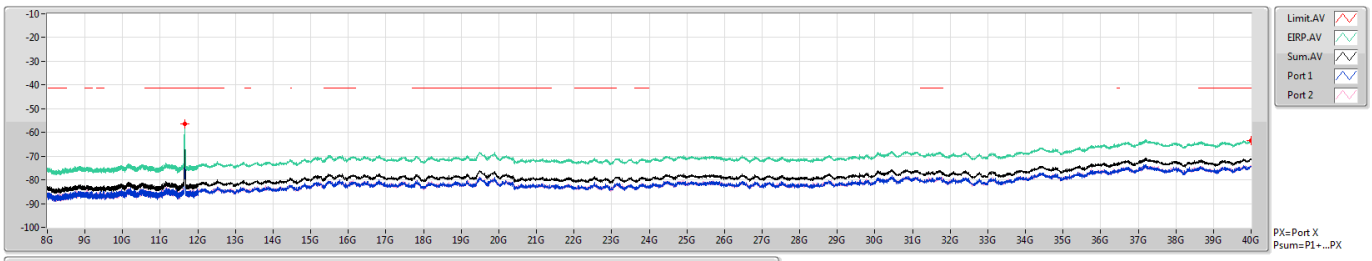
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.6565G	-47.74	-21.20	-26.54	7.76	0.00	-55.50	-62.35	-56.50
12G	40G	1M	PK	37.228G	-55.16	-27.00	-28.16	7.76	0.00	-62.92	-65.67	-66.20

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

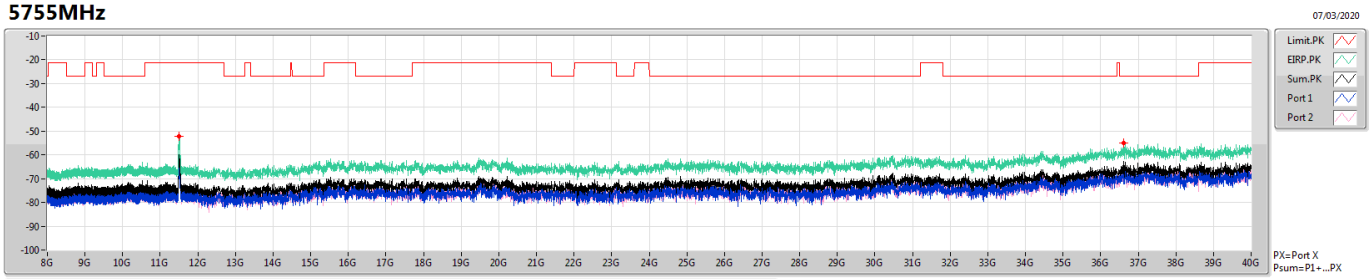
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.65G	-56.45	-41.20	-15.25	7.76	0.00	-64.21	-70.40	-65.40
12G	40G	1M	AV	39.9965G	-63.42	-41.20	-22.22	7.76	0.00	-71.18	-74.38	-74.01

11a40_Nss1,(6Mbps)_2TX **CSE-PK**

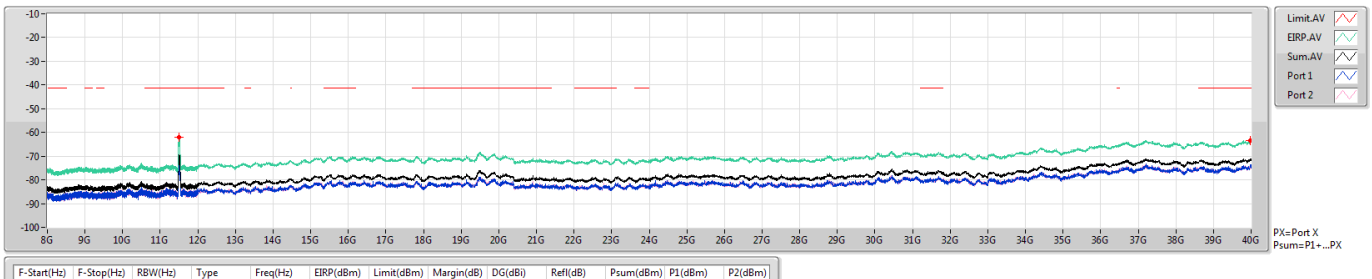
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.5075G	-52.21	-21.20	-31.01	7.60	0.00	-59.81	-62.74	-62.91
12G	40G	1M	PK	36.6155G	-55.05	-27.00	-28.05	7.60	0.00	-62.65	-64.50	-67.24

11a40_Nss1,(6Mbps)_2TX **CSE-AV**

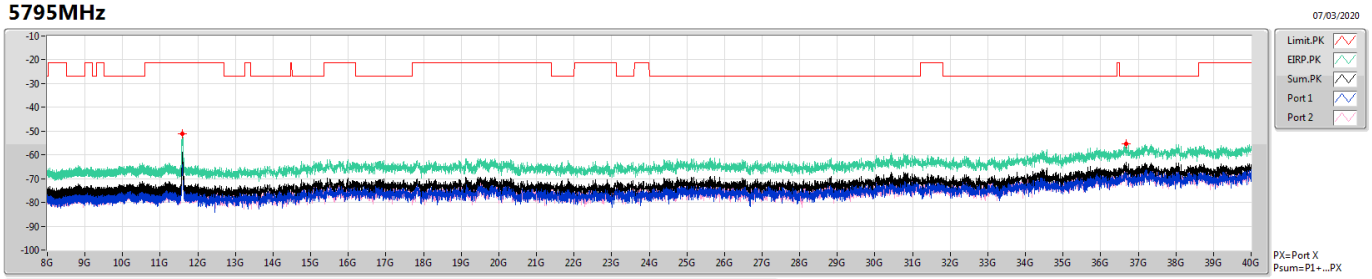
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.51G	-61.91	-41.20	-20.71	7.60	0.00	-69.51	-73.73	-71.57
12G	40G	1M	AV	39.9825G	-63.43	-41.20	-22.23	7.60	0.00	-71.03	-73.67	-74.45

11a40_Nss1,(6Mbps)_2TX **CSE-PK**

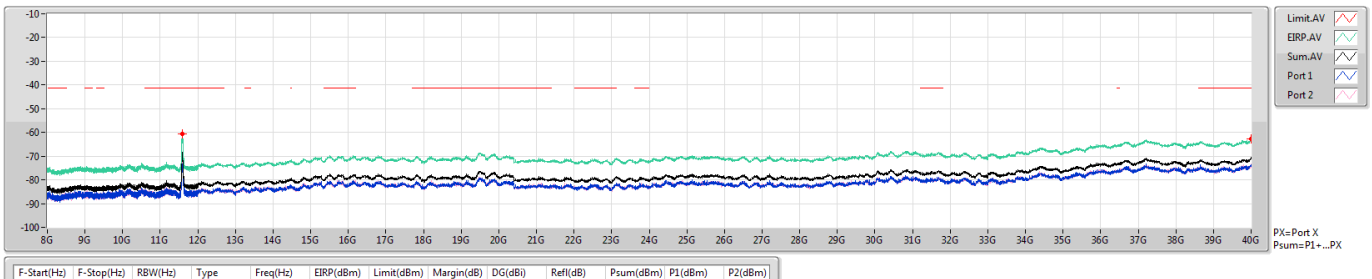
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.587G	-51.19	-21.20	-29.99	7.76	0.00	-58.95	-65.69	-59.99
12G	40G	1M	PK	36.6785G	-55.32	-27.00	-28.32	7.76	0.00	-63.08	-66.13	-66.06

11a40_Nss1,(6Mbps)_2TX **CSE-AV**

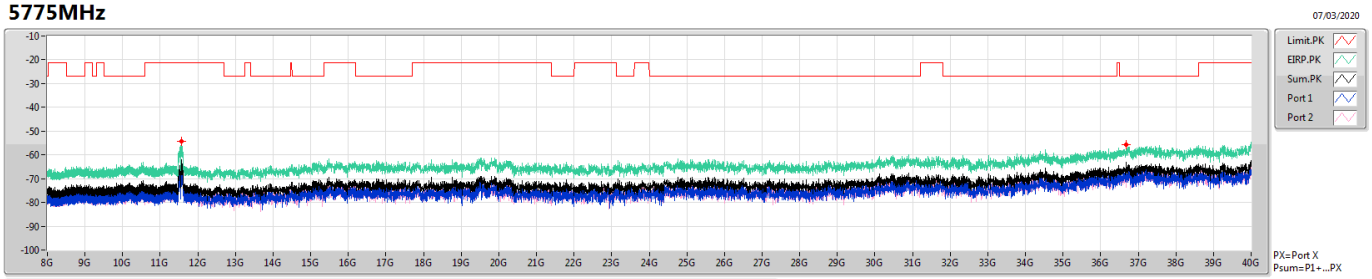
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.59G	-60.76	-41.20	-19.56	7.76	0.00	-68.52	-73.22	-70.32
12G	40G	1M	AV	39.9965G	-62.74	-41.20	-21.54	7.76	0.00	-70.50	-73.64	-73.38

11a80_Nss1,(6Mbps)_2TX **CSE-PK**

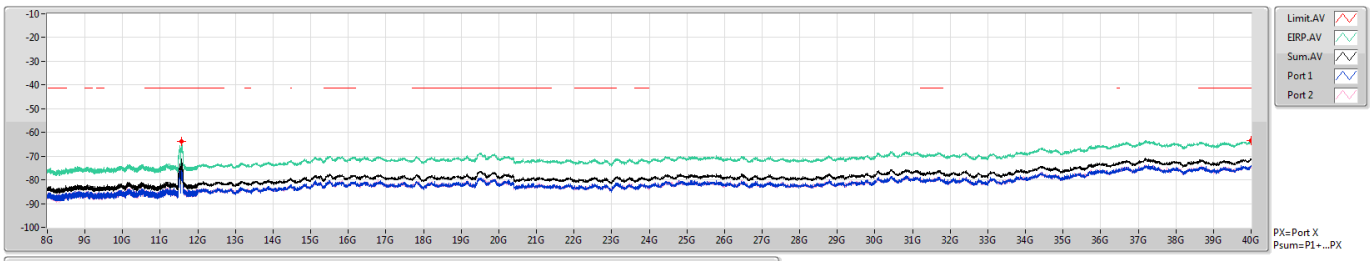
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.563G	-54.45	-21.20	-33.25	7.60	0.00	-62.05	-66.15	-64.19
12G	40G	1M	PK	36.6855G	-55.60	-27.00	-28.60	7.60	0.00	-63.20	-66.91	-65.60

11a80_Nss1,(6Mbps)_2TX **CSE-AV**

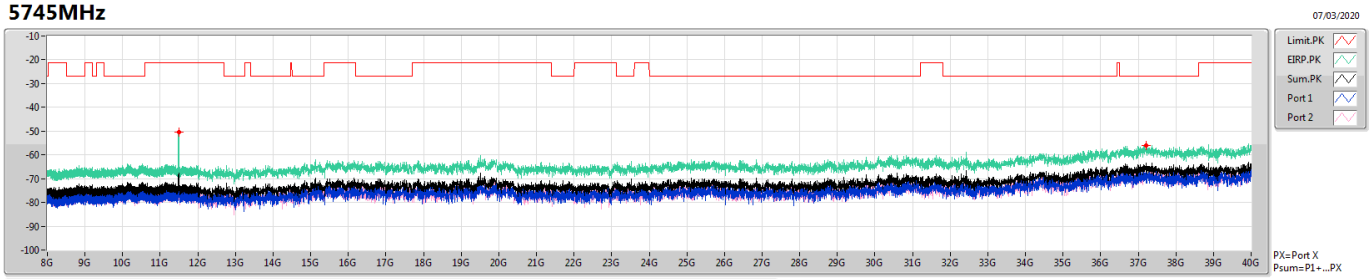
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.559G	-63.69	-41.20	-22.49	7.60	0.00	-71.29	-76.77	-72.73
12G	40G	1M	AV	40G	-63.44	-41.20	-22.24	7.60	0.00	-71.04	-74.04	-74.06

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

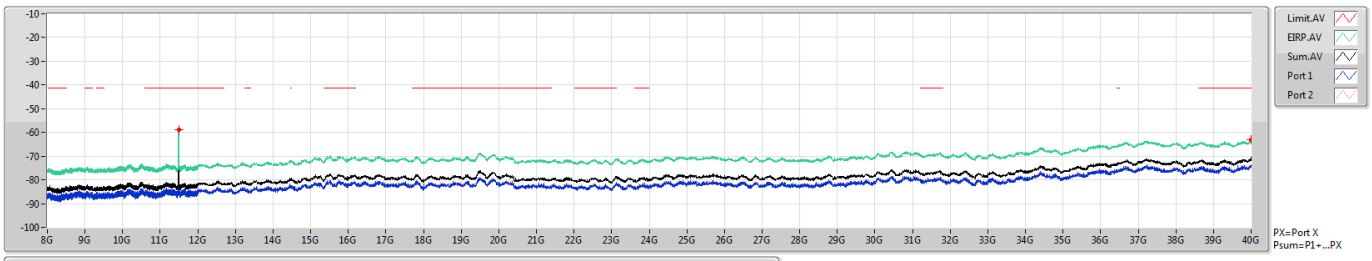
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.4885G	-50.36	-21.20	-29.16	7.60	0.00	-57.96	-64.22	-59.13
12G	40G	1M	PK	37.2035G	-55.93	-27.00	-28.93	7.60	0.00	-63.53	-65.34	-68.21

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

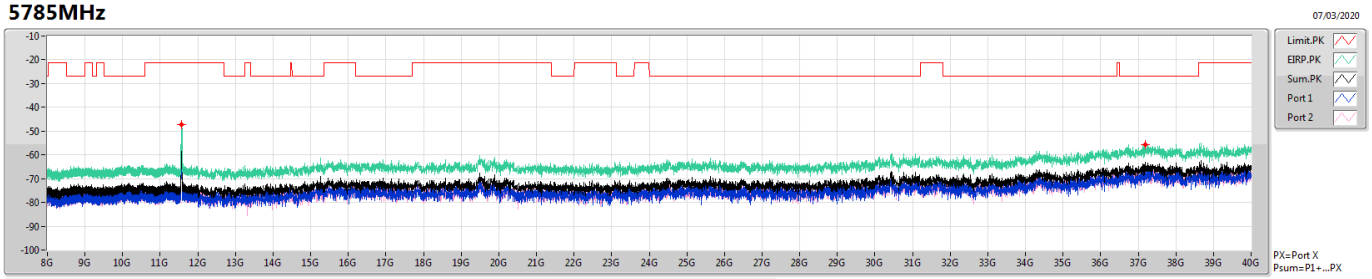
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.4905G	-58.78	-41.20	-17.58	7.60	0.00	-66.38	-70.39	-68.57
12G	40G	1M	AV	40G	-63.01	-41.20	-21.81	7.60	0.00	-70.61	-73.56	-73.68

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

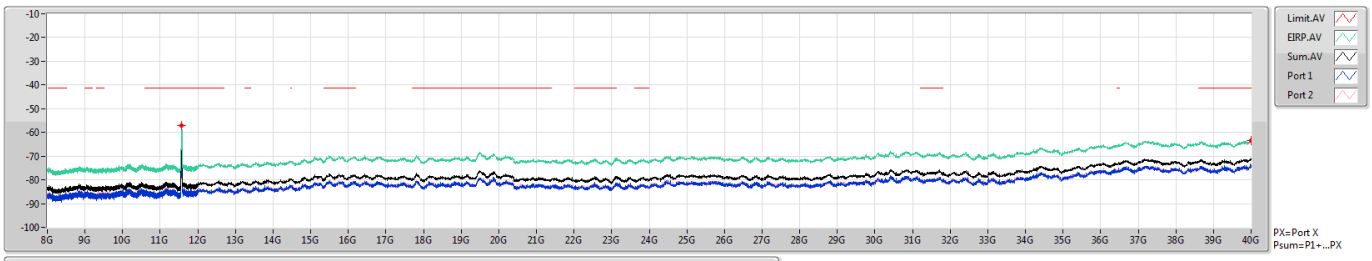
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.5685G	-47.42	-21.20	-26.22	7.60	0.00	-55.02	-62.06	-55.98
12G	40G	1M	PK	37.1965G	-55.55	-27.00	-28.55	7.60	0.00	-63.15	-68.34	-64.71

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

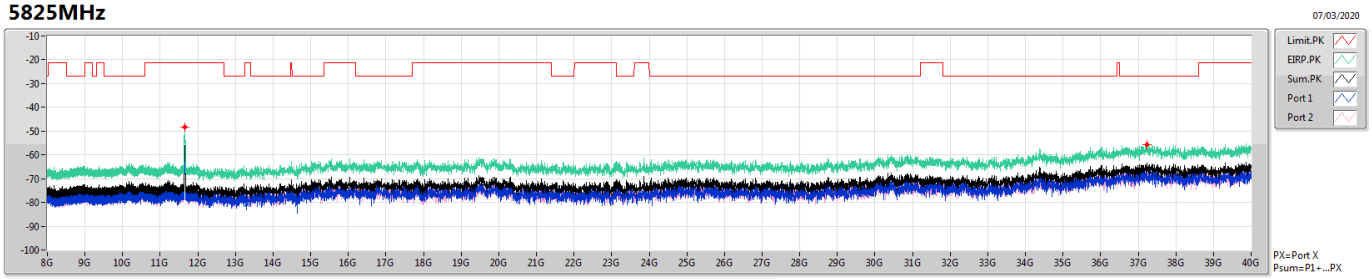
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.57G	-57.27	-41.20	-16.07	7.60	0.00	-64.87	-70.06	-66.44
12G	40G	1M	AV	40G	-63.45	-41.20	-22.25	7.60	0.00	-71.05	-74.45	-73.71

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

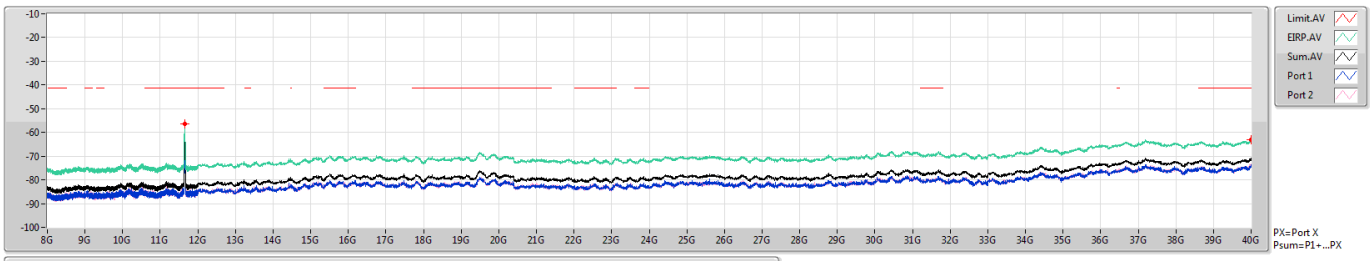
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.654G	-48.28	-21.20	-27.08	7.76	0.00	-56.04	-61.46	-57.51
12G	40G	1M	PK	37.221G	-55.56	-27.00	-28.56	7.76	0.00	-63.32	-66.48	-66.19

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

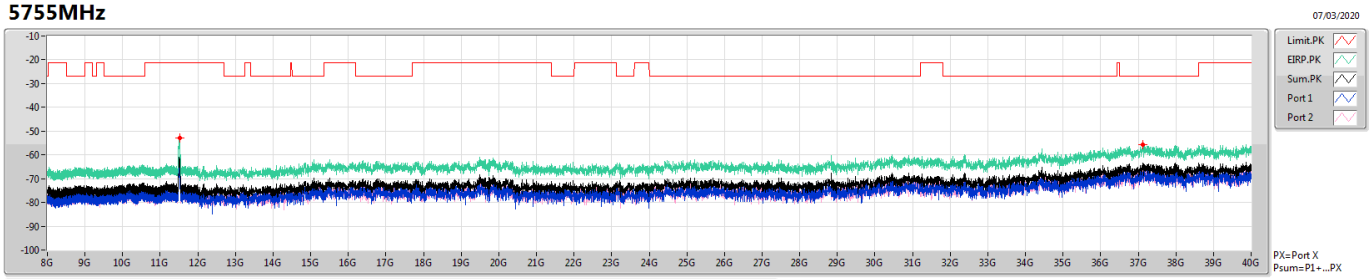
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.651G	-56.37	-41.20	-15.17	7.76	0.00	-64.13	-70.68	-65.22
12G	40G	1M	AV	40G	-63.03	-41.20	-21.83	7.76	0.00	-70.79	-74.20	-73.44

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-PK**

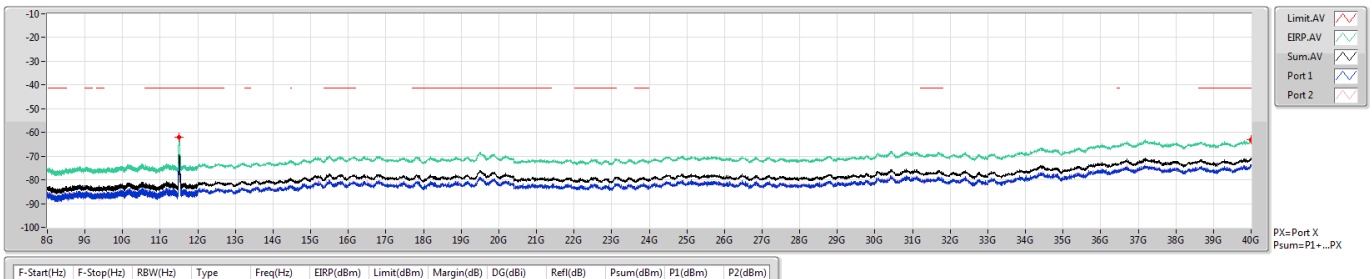
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.511G	-52.79	-21.20	-31.59	7.60	0.00	-60.39	-65.14	-62.16
12G	40G	1M	PK	37.123G	-55.77	-27.00	-28.77	7.60	0.00	-63.37	-68.87	-64.81

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-AV**

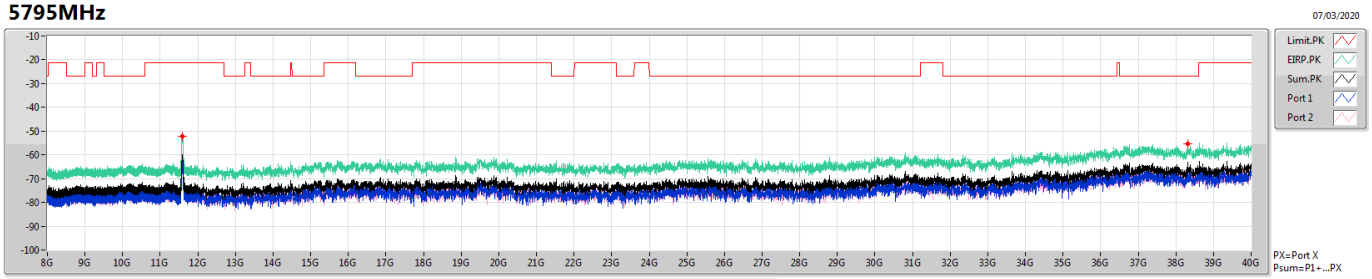
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.51G	-61.91	-41.20	-20.71	7.60	0.00	-69.51	-73.08	-72.03
12G	40G	1M	AV	40G	-63.24	-41.20	-22.04	7.60	0.00	-70.84	-73.47	-74.27

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-PK**

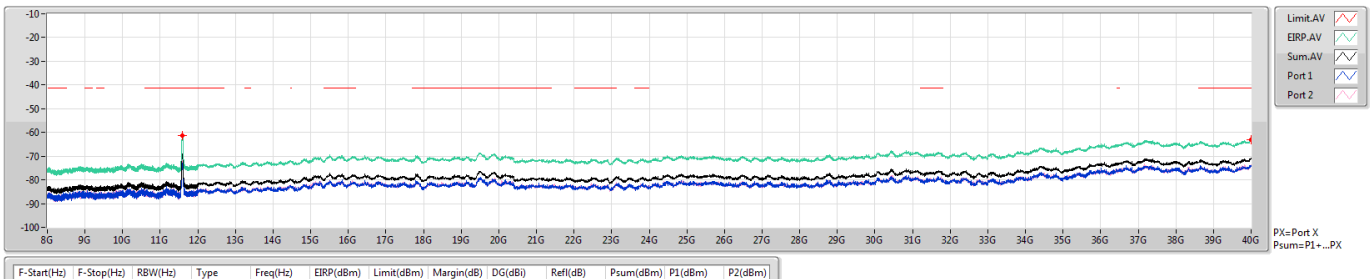
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.589G	-52.15	-21.20	-30.95	7.76	0.00	-59.91	-66.23	-61.06
12G	40G	1M	PK	38.306G	-55.33	-27.00	-28.33	7.76	0.00	-63.09	-67.14	-65.27

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-AV**

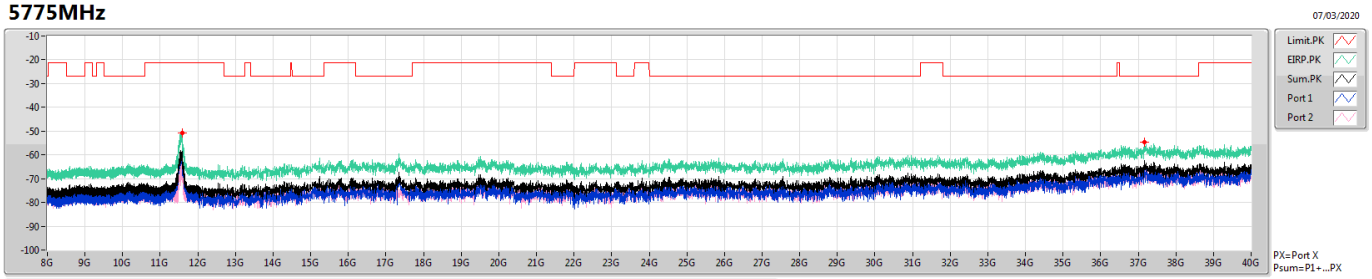
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.5835G	-61.41	-41.20	-20.21	7.76	0.00	-69.17	-72.98	-71.51
12G	40G	1M	AV	39.9965G	-63.03	-41.20	-21.83	7.76	0.00	-70.79	-73.81	-73.80

802.11ax HEW80_Nss1,(MCS0)_2TX **CSE-PK**

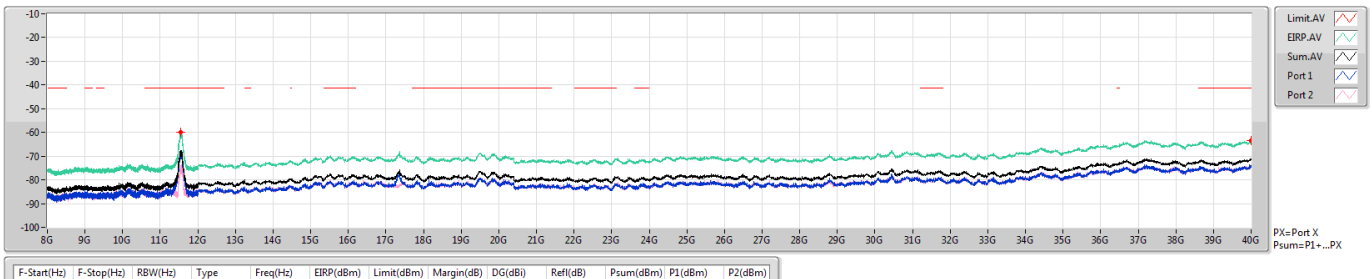
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	PK	11.5775G	-50.61	-21.20	-29.41	7.60	0.00	-58.21	-58.57	-69.24
12G	40G	1M	PK	37.1755G	-54.72	-27.00	-27.72	7.60	0.00	-62.32	-65.61	-65.07

802.11ax HEW80_Nss1,(MCS0)_2TX **CSE-AV**

5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	12G	1M	AV	11.5455G	-59.98	-41.20	-18.78	7.60	0.00	-67.58	-68.72	-73.96
12G	40G	1M	AV	39.993G	-63.44	-41.20	-22.24	7.60	0.00	-71.04	-74.72	-73.47

<2T1S>

For Conducted Bandedge:

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	Pass	4.9G	5.685G	AV	5.45038G	7.60	-57.05	-57.62	-54.32	-46.72	-41.20	-5.52
11a40_Nss1,(6Mbps)_2TX	Pass	4.9G	5.645G	AV	5.42821G	7.60	-57.15	-57.37	-54.25	-46.65	-41.20	-5.45
11a80_Nss1,(6Mbps)_2TX	Pass	5.565G	5.725G	PK	5.63188G	7.60	-43.55	-39.15	-37.80	-30.20	-27.00	-3.20
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	4.9G	5.685G	AV	5.44351G	7.60	-56.31	-58.69	-54.33	-46.73	-41.20	-5.53
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	4.9G	5.645G	AV	5.45288G	7.76	-58.05	-57.07	-54.52	-46.76	-41.20	-5.56
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	5.565G	5.725G	PK	5.64884G	7.60	-43.25	-39.72	-38.13	-30.53	-27.00	-3.53

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

Result

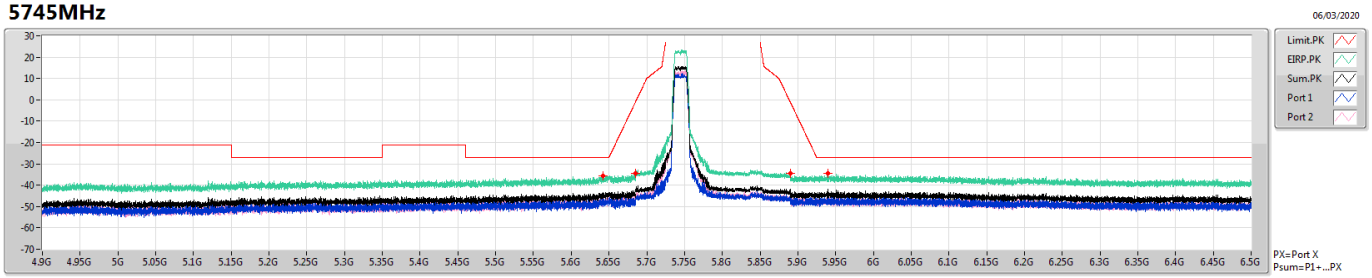
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	4.9G	5.685G	AV	5.44283G	7.60	-57.33	-57.51	-54.41	-46.81	-41.20	-5.61
5745MHz	Pass	4.9G	5.685G	PK	5.64183G	7.60	-46.84	-45.81	-43.28	-35.68	-27.00	-8.68
5745MHz	Pass	5.685G	5.725G	PK	5.68508G	7.60	-45.39	-44.66	-42.00	-34.40	-1.04	-33.36
5745MHz	Pass	5.85G	5.89G	PK	5.88968G	7.60	-44.42	-45.76	-42.03	-34.43	-0.86	-33.57
5745MHz	Pass	5.89G	6.5G	PK	5.94002G	7.60	-45.68	-44.42	-41.99	-34.39	-27.00	-7.39
5785MHz	Pass	4.9G	5.685G	AV	5.45038G	7.60	-57.05	-57.62	-54.32	-46.72	-41.20	-5.52
5785MHz	Pass	4.9G	5.685G	PK	5.60778G	7.60	-49.03	-44.92	-43.50	-35.90	-27.00	-8.90
5785MHz	Pass	5.685G	5.725G	PK	5.68556G	7.60	-45.22	-44.25	-41.70	-34.10	-0.69	-33.41
5785MHz	Pass	5.85G	5.89G	PK	5.88968G	7.60	-43.03	-44.58	-40.73	-33.13	-0.86	-32.27
5785MHz	Pass	5.89G	6.5G	PK	6.05279G	7.60	-44.79	-46.31	-42.47	-34.87	-27.00	-7.87
5825MHz	Pass	4.9G	5.685G	AV	5.44253G	7.76	-57.40	-57.77	-54.57	-46.81	-41.20	-5.61
5825MHz	Pass	4.9G	5.685G	PK	5.61926G	7.76	-46.09	-46.57	-43.31	-35.55	-27.00	-8.55
5825MHz	Pass	5.685G	5.725G	PK	5.68516G	7.76	-46.58	-45.82	-43.17	-35.41	-0.98	-34.43
5825MHz	Pass	5.85G	5.89G	PK	5.88976G	7.76	-43.60	-43.61	-40.59	-32.83	-0.92	-31.91
5825MHz	Pass	5.89G	6.5G	PK	5.92706G	7.76	-45.28	-43.84	-41.49	-33.73	-27.00	-6.73
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	4.9G	5.645G	AV	5.42821G	7.60	-57.15	-57.37	-54.25	-46.65	-41.20	-5.45
5755MHz	Pass	4.9G	5.645G	PK	5.64267G	7.60	-47.90	-43.78	-42.36	-34.76	-27.00	-7.76
5755MHz	Pass	5.645G	5.725G	PK	5.6474G	7.60	-46.26	-42.61	-41.05	-33.45	-27.00	-6.45
5755MHz	Pass	5.85G	5.93G	PK	5.92664G	7.60	-44.04	-44.52	-41.26	-33.66	-27.00	-6.66
5755MHz	Pass	5.93G	6.5G	PK	5.94454G	7.60	-46.71	-44.27	-42.31	-34.71	-27.00	-7.71
5795MHz	Pass	4.9G	5.645G	AV	5.44739G	7.76	-56.44	-58.90	-54.49	-46.73	-41.20	-5.53
5795MHz	Pass	4.9G	5.645G	PK	5.58009G	7.76	-46.11	-45.60	-42.84	-35.08	-27.00	-8.08
5795MHz	Pass	5.645G	5.725G	PK	5.649G	7.76	-45.26	-45.03	-42.13	-34.37	-27.00	-7.37
5795MHz	Pass	5.85G	5.93G	PK	5.92472G	7.76	-43.59	-44.32	-40.93	-33.17	-26.79	-6.38
5795MHz	Pass	5.93G	6.5G	PK	5.93791G	7.76	-44.56	-45.16	-41.84	-34.08	-27.00	-7.08
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	4.9G	5.565G	AV	5.45278G	7.60	-56.93	-57.86	-54.36	-46.76	-41.20	-5.56
5775MHz	Pass	4.9G	5.565G	PK	5.56226G	7.60	-49.25	-42.81	-41.92	-34.32	-27.00	-7.32
5775MHz	Pass	5.565G	5.725G	PK	5.63188G	7.60	-43.55	-39.15	-37.80	-30.20	-27.00	-3.20
5775MHz	Pass	5.85G	6.01G	PK	5.93608G	7.60	-43.49	-39.61	-38.12	-30.52	-27.00	-3.52
5775MHz	Pass	6.01G	6.5G	PK	6.02868G	7.60	-44.74	-45.56	-42.12	-34.52	-27.00	-7.52
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5720MHz Straddle 5.725-5.85GHz												
5745MHz	Pass	4.9G	5.685G	AV	5.45951G	7.60	-58.02	-57.35	-54.66	-47.06	-41.20	-5.86
5745MHz	Pass	4.9G	5.685G	PK	5.64349G	7.60	-48.30	-43.95	-42.59	-34.99	-27.00	-7.99
5745MHz	Pass	5.685G	5.725G	PK	5.68588G	7.60	-43.91	-45.08	-41.45	-33.85	-0.45	-33.40
5745MHz	Pass	5.85G	5.89G	PK	5.89G	7.60	-47.31	-45.01	-43.00	-35.40	-1.10	-34.30
5745MHz	Pass	5.89G	6.5G	PK	6.03442G	7.60	-47.09	-43.57	-41.97	-34.37	-27.00	-7.37
5785MHz	Pass	4.9G	5.685G	AV	5.44351G	7.60	-56.31	-58.69	-54.33	-46.73	-41.20	-5.53
5785MHz	Pass	4.9G	5.685G	PK	5.6012G	7.60	-46.55	-45.75	-43.12	-35.52	-27.00	-8.52
5785MHz	Pass	5.685G	5.725G	PK	5.68524G	7.60	-45.59	-44.47	-41.98	-34.38	-0.92	-33.46
5785MHz	Pass	5.85G	5.89G	PK	5.88976G	7.60	-44.94	-42.98	-40.84	-33.24	-0.92	-32.32
5785MHz	Pass	5.89G	6.5G	PK	6.04631G	7.60	-45.00	-46.02	-42.47	-34.87	-27.00	-7.87
5825MHz	Pass	4.9G	5.685G	AV	5.42889G	7.76	-57.16	-58.30	-54.68	-46.92	-41.20	-5.72
5825MHz	Pass	4.9G	5.685G	PK	5.57275G	7.76	-46.32	-46.20	-43.25	-35.49	-27.00	-8.49
5825MHz	Pass	5.685G	5.725G	PK	5.685G	7.76	-46.05	-46.76	-43.38	-35.62	-1.10	-34.52
5825MHz	Pass	5.85G	5.89G	PK	5.88976G	7.76	-44.85	-44.40	-41.61	-33.85	-0.92	-32.93
5825MHz	Pass	5.89G	6.5G	PK	5.93049G	7.76	-43.45	-44.14	-40.77	-33.01	-27.00	-6.01

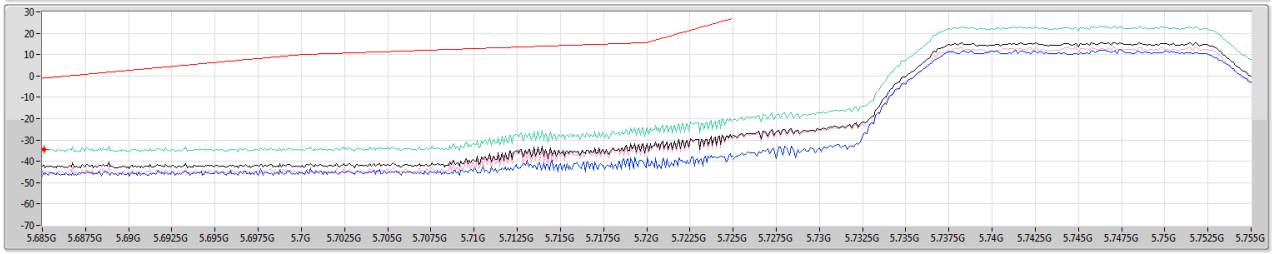
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5710MHz Straddle 5.725-5.85GHz												
5755MHz	Pass	4.9G	5.645G	AV	5.41247G	7.60	-57.61	-57.45	-54.52	-46.92	-41.20	-5.72
5755MHz	Pass	4.9G	5.645G	PK	5.63951G	7.60	-45.41	-44.80	-42.08	-34.48	-27.00	-7.48
5755MHz	Pass	5.645G	5.725G	PK	5.6474G	7.60	-45.08	-43.21	-41.03	-33.43	-27.00	-6.43
5755MHz	Pass	5.85G	5.93G	PK	5.92984G	7.60	-44.46	-45.33	-41.86	-34.26	-27.00	-7.26
5755MHz	Pass	5.93G	6.5G	PK	5.96969G	7.60	-46.43	-44.64	-42.43	-34.83	-27.00	-7.83
5795MHz	Pass	4.9G	5.645G	AV	5.45288G	7.76	-58.05	-57.07	-54.52	-46.76	-41.20	-5.56
5795MHz	Pass	4.9G	5.645G	PK	5.64444G	7.76	-44.77	-48.02	-43.09	-35.33	-27.00	-8.33
5795MHz	Pass	5.645G	5.725G	PK	5.64548G	7.76	-45.86	-44.79	-42.28	-34.52	-27.00	-7.52
5795MHz	Pass	5.85G	5.93G	PK	5.92776G	7.76	-43.23	-45.21	-41.10	-33.34	-27.00	-6.34
5795MHz	Pass	5.93G	6.5G	PK	5.93143G	7.76	-47.01	-43.36	-41.80	-34.04	-27.00	-7.04
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5690MHz Straddle 5.725-5.85GHz												
5775MHz	Pass	4.9G	5.565G	AV	5.41878G	7.60	-56.72	-58.40	-54.47	-46.87	-41.20	-5.67
5775MHz	Pass	4.9G	5.565G	PK	5.52485G	7.60	-47.95	-45.37	-43.46	-35.86	-27.00	-8.86
5775MHz	Pass	5.565G	5.725G	PK	5.64884G	7.60	-43.25	-39.72	-38.13	-30.53	-27.00	-3.53
5775MHz	Pass	5.85G	6.01G	PK	5.92936G	7.60	-42.15	-42.05	-39.09	-31.49	-27.00	-4.49
5775MHz	Pass	6.01G	6.5G	PK	6.13109G	7.60	-43.59	-48.76	-42.44	-34.84	-27.00	-7.84

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

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

5745MHz

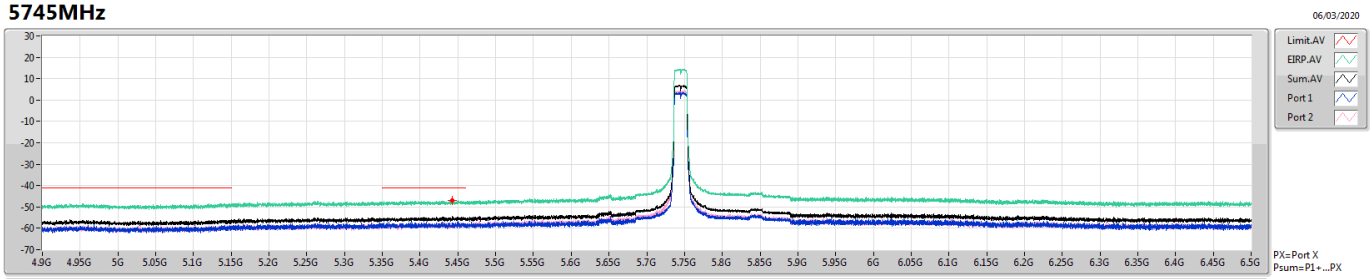


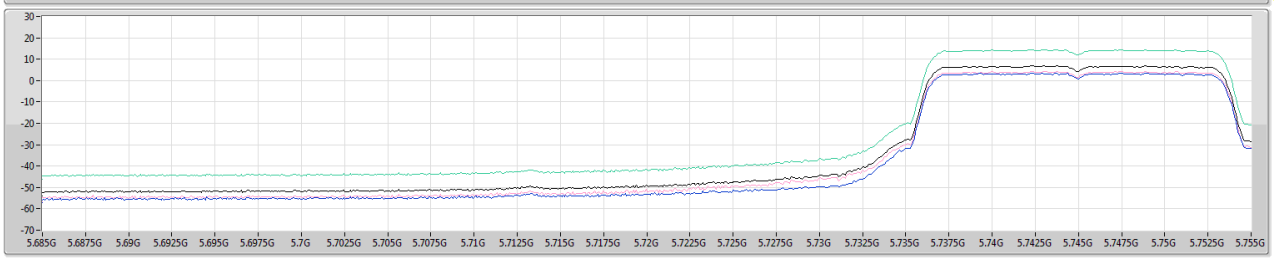


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	PK	5.64183G	-35.68	-27.00	-8.68	7.60	0.00	-43.28	-46.84	-45.81
5.685G	5.725G	1M	PK	5.68508G	-34.40	-1.04	-33.36	7.60	0.00	-42.00	-45.39	-44.66
5.85G	5.89G	1M	PK	5.88968G	-34.43	-0.86	-33.57	7.60	0.00	-42.03	-44.42	-45.76
5.89G	6.5G	1M	PK	5.94002G	-34.39	-27.00	-7.39	7.60	0.00	-41.99	-45.68	-44.42

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

5745MHz

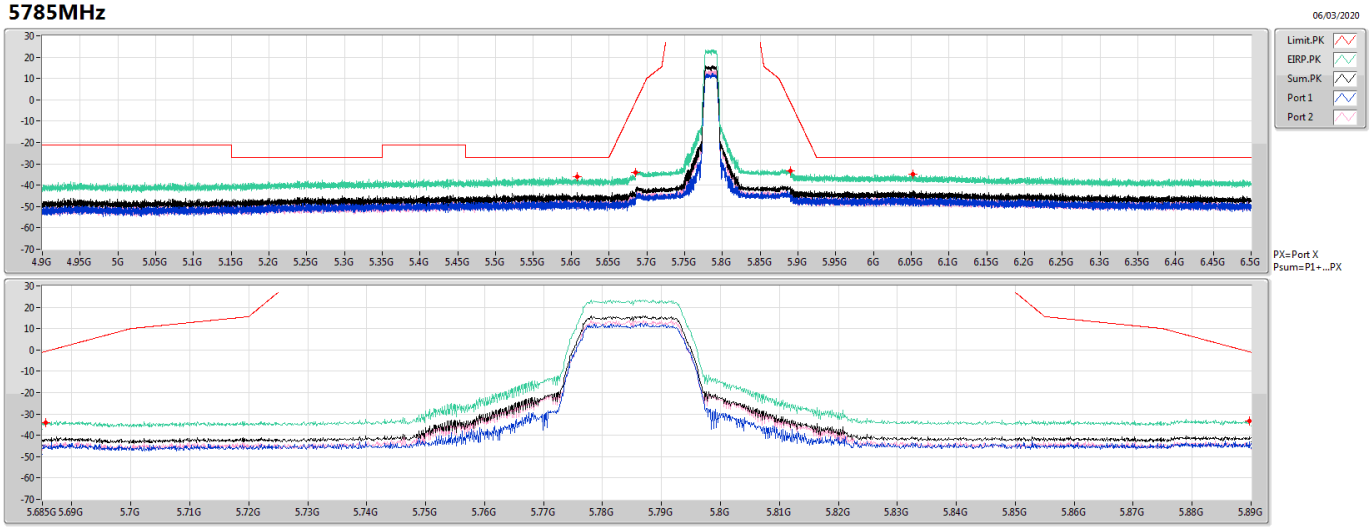




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	AV	5.44283G	-46.81	-41.20	-5.61	7.60	0.00	-54.41	-57.33	-57.51

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

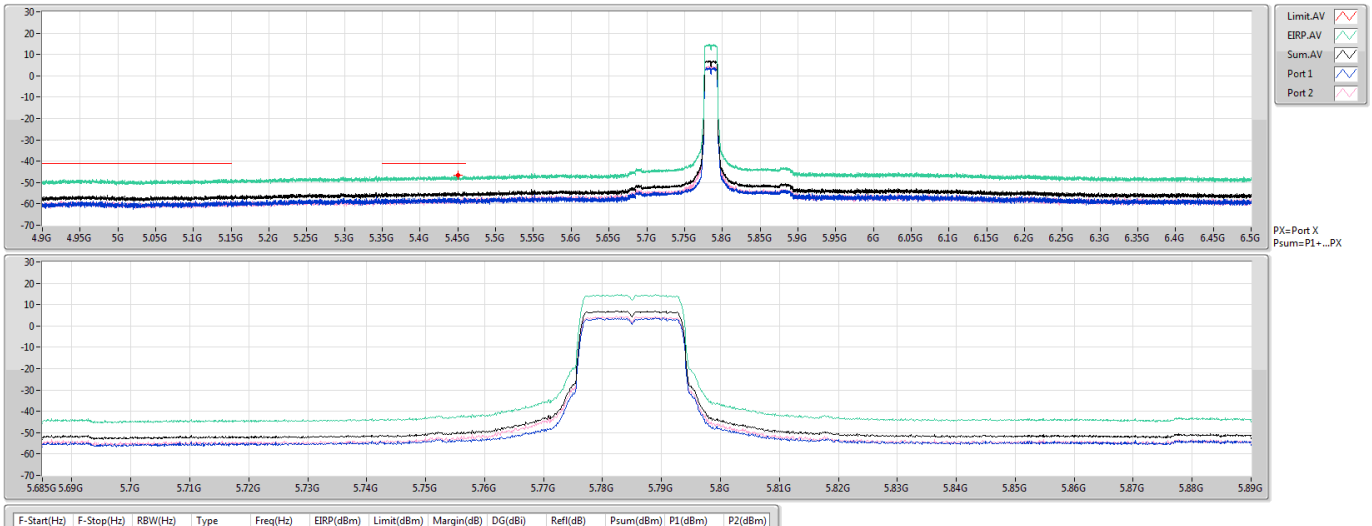
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	PK	5.60778G	-35.90	-27.00	-8.90	7.60	0.00	-43.50	-49.03	-44.92
5.685G	5.725G	1M	PK	5.68556G	-34.10	-0.69	-33.41	7.60	0.00	-41.70	-45.22	-44.25
5.85G	5.89G	1M	PK	5.88968G	-33.13	-0.86	-32.27	7.60	0.00	-40.73	-43.03	-44.58
5.89G	6.5G	1M	PK	6.05279G	-34.87	-27.00	-7.87	7.60	0.00	-42.47	-44.79	-46.31

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

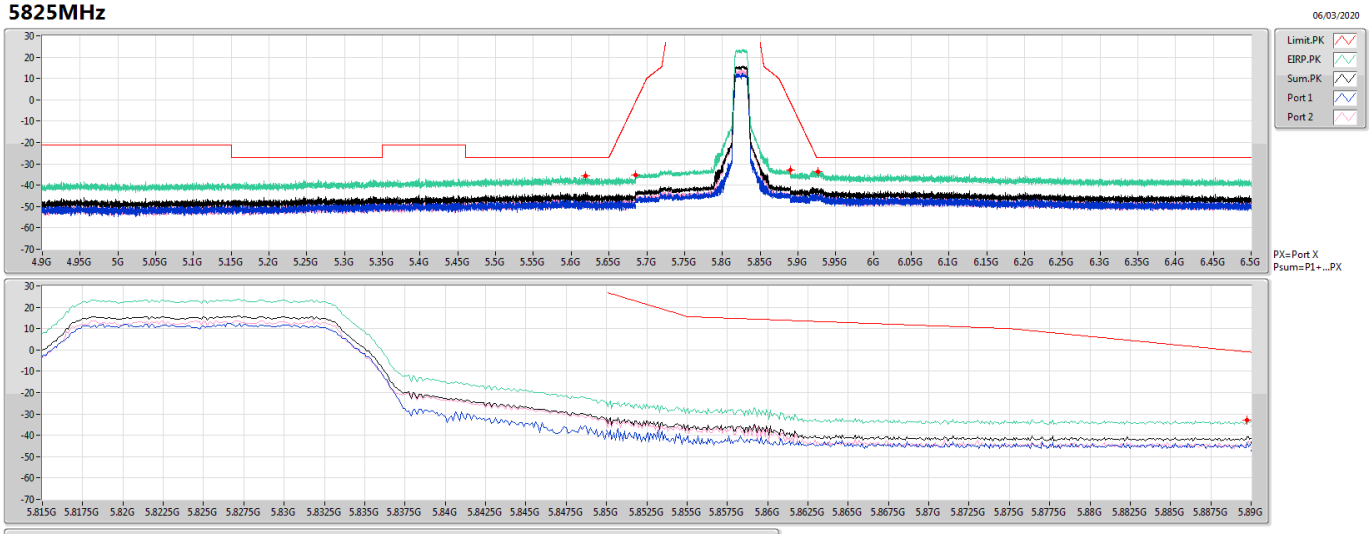
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	AV	5.45038G	-46.72	-41.20	-5.52	7.60	0.00	-54.32	-57.05	-57.62

11a20_Nss1,(6Mbps)_2TX **CSE-PK**

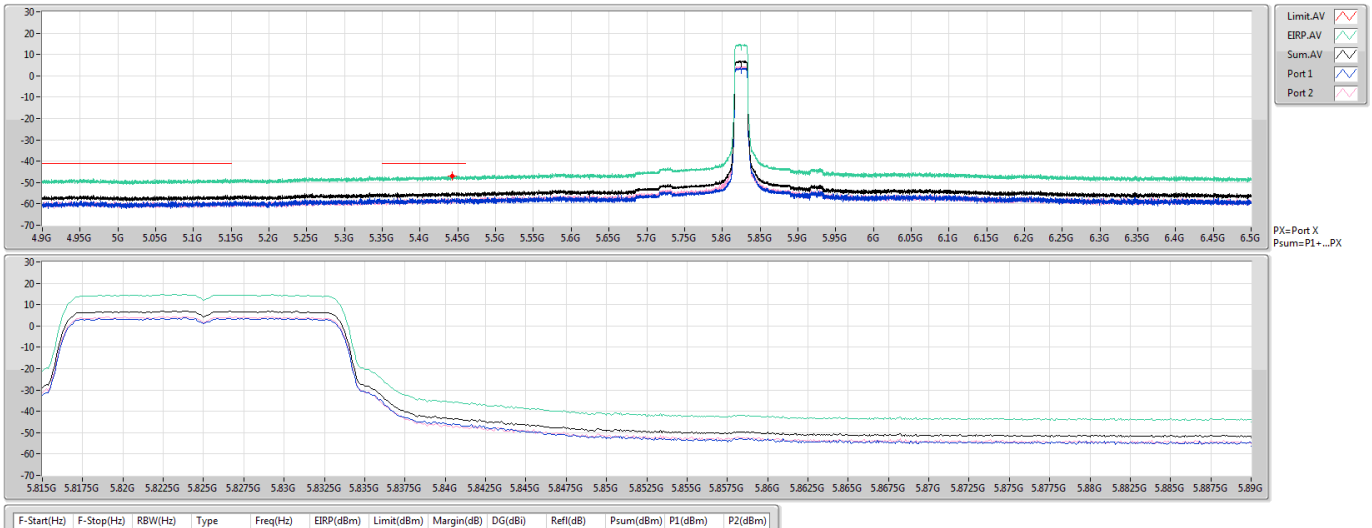
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	PK	5.61926G	-35.55	-27.00	-8.55	7.76	0.00	-43.31	-46.09	-46.57
5.685G	5.725G	1M	PK	5.68516G	-35.41	-0.98	-34.43	7.76	0.00	-43.17	-46.58	-45.82
5.85G	5.89G	1M	PK	5.88976G	-32.83	-0.92	-31.91	7.76	0.00	-40.59	-43.60	-43.61
5.89G	6.5G	1M	PK	5.92706G	-33.73	-27.00	-6.73	7.76	0.00	-41.49	-45.28	-43.84

11a20_Nss1,(6Mbps)_2TX **CSE-AV**

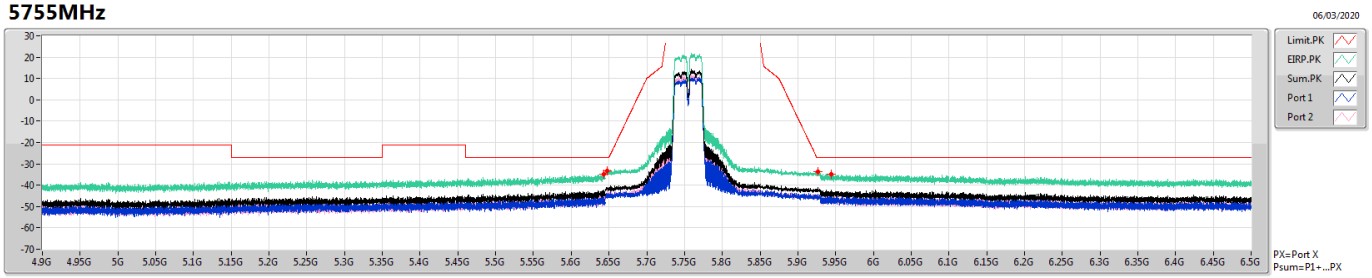
5825MHz

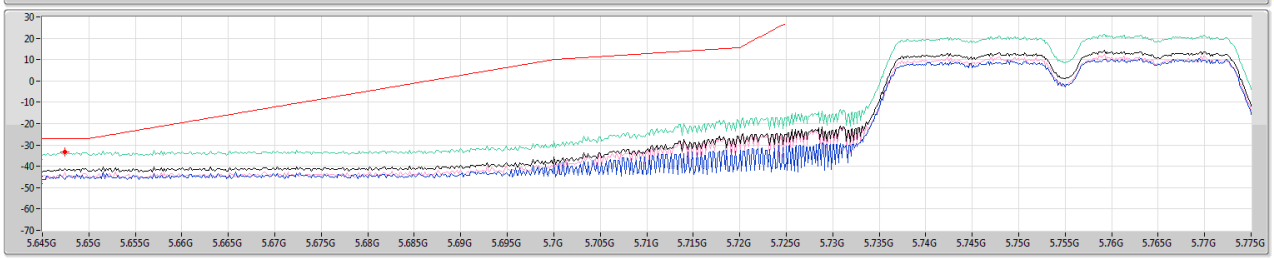


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	AV	5.44253G	-46.81	-41.20	-5.61	7.76	0.00	-54.57	-57.40	-57.77

11a40_Nss1,(6Mbps)_2TX **CSE-PK**

5755MHz

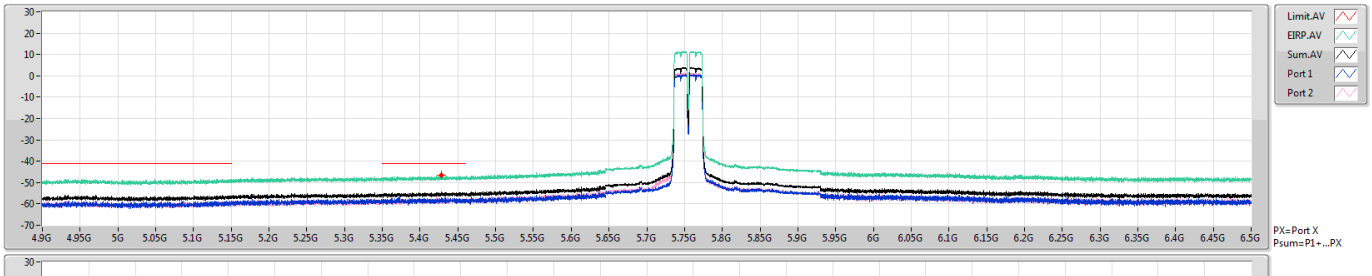


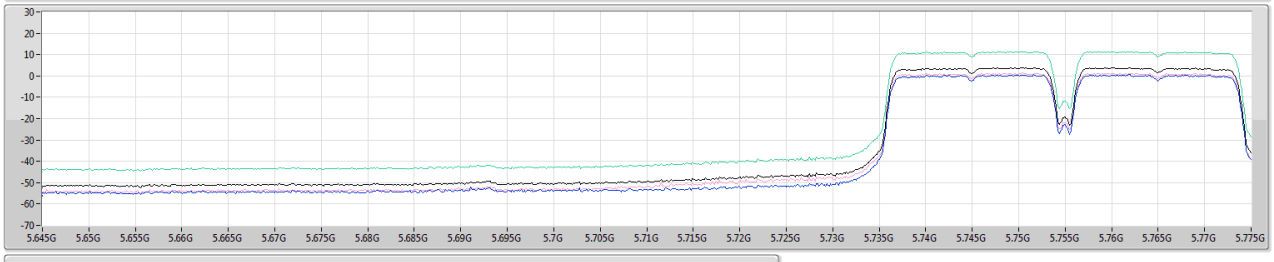


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	PK	5.64267G	-34.76	-27.00	-7.76	7.60	0.00	-42.36	-47.90	-43.78
5.645G	5.725G	1M	PK	5.6474G	-33.45	-27.00	-6.45	7.60	0.00	-41.05	-46.26	-42.61
5.85G	5.93G	1M	PK	5.92664G	-33.66	-27.00	-6.66	7.60	0.00	-41.26	-44.04	-44.52
5.93G	6.5G	1M	PK	5.94454G	-34.71	-27.00	-7.71	7.60	0.00	-42.31	-46.71	-44.27

11a40_Nss1,(6Mbps)_2TX **CSE-AV**

5755MHz

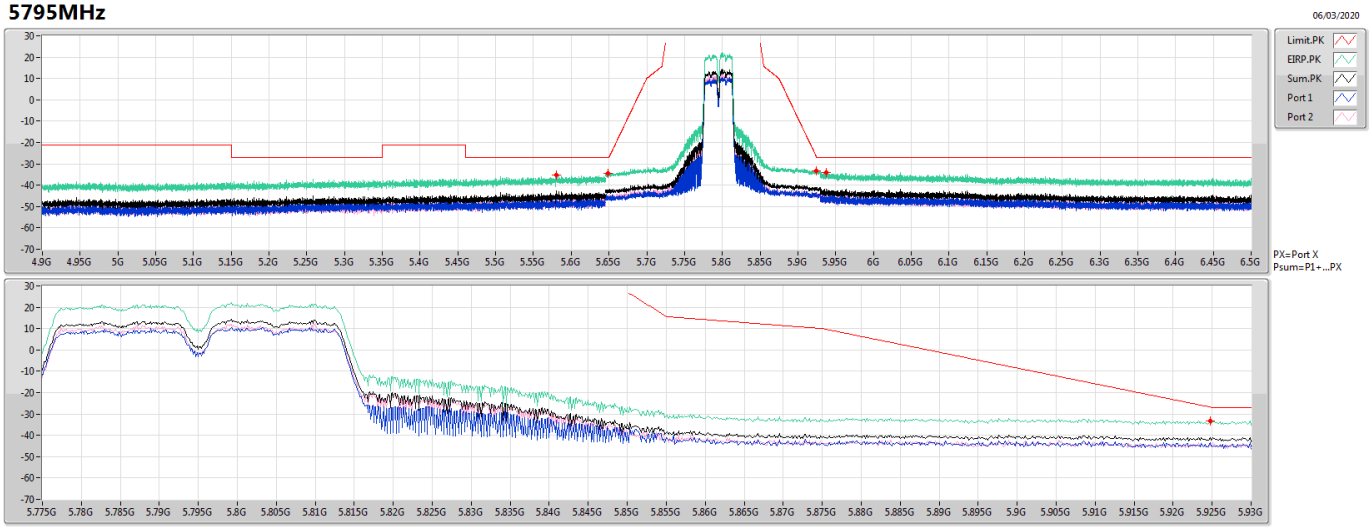




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	AV	5.42821G	-46.65	-41.20	-5.45	7.60	0.00	-54.25	-57.15	-57.37

11a40_Nss1,(6Mbps)_2TX **CSE-PK**

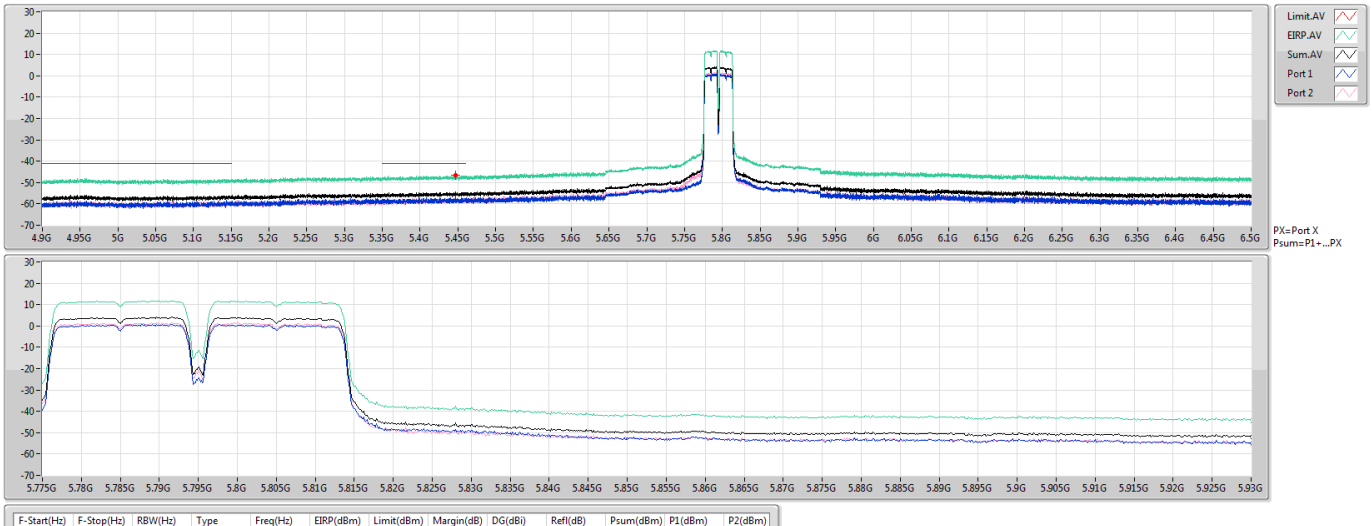
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	PK	5.58009G	-35.08	-27.00	-8.08	7.76	0.00	-42.84	-46.11	-45.60
5.645G	5.725G	1M	PK	5.649G	-34.37	-27.00	-7.37	7.76	0.00	-42.13	-45.26	-45.03
5.85G	5.93G	1M	PK	5.92472G	-33.17	-26.79	-6.38	7.76	0.00	-40.93	-43.59	-44.32
5.93G	6.5G	1M	PK	5.93791G	-34.08	-27.00	-7.08	7.76	0.00	-41.84	-44.56	-45.16

11a40_Nss1,(6Mbps)_2TX **CSE-AV**

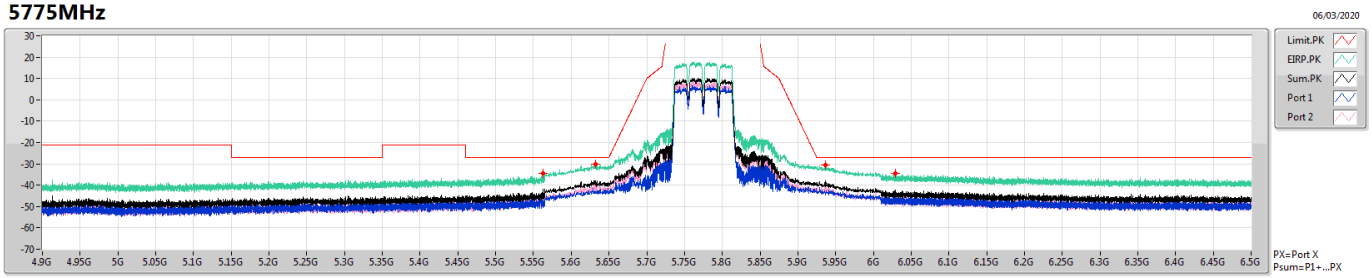
5795MHz

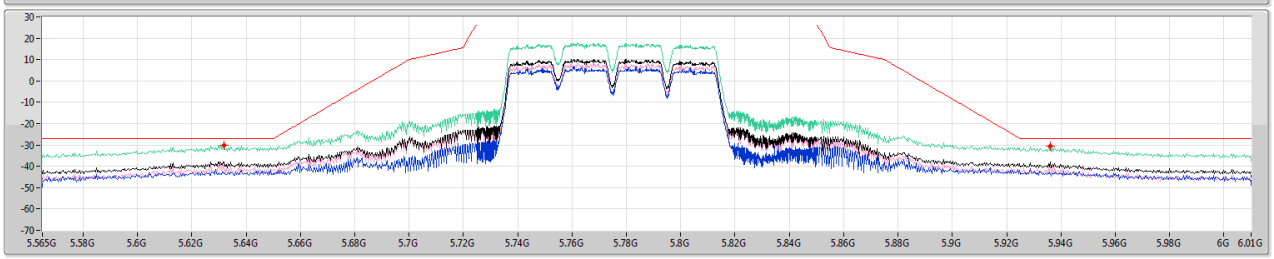


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	AV	5.44739G	-46.73	-41.20	-5.53	7.76	0.00	-54.49	-56.44	-58.90

11a80_Nss1,(6Mbps)_2TX **CSE-PK**

5775MHz

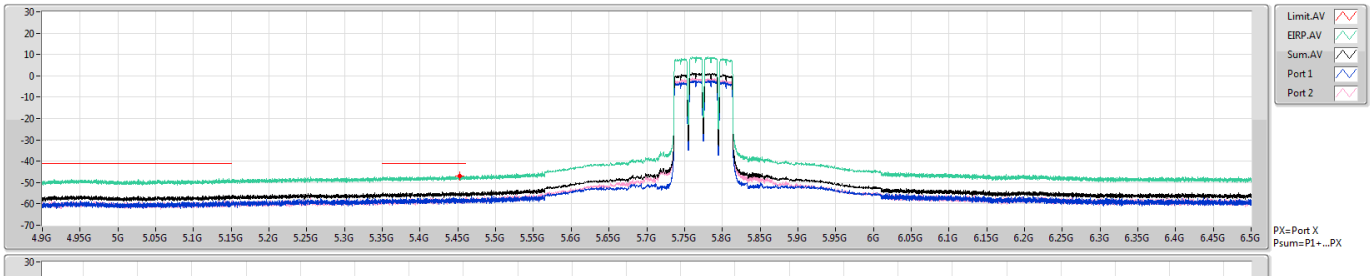


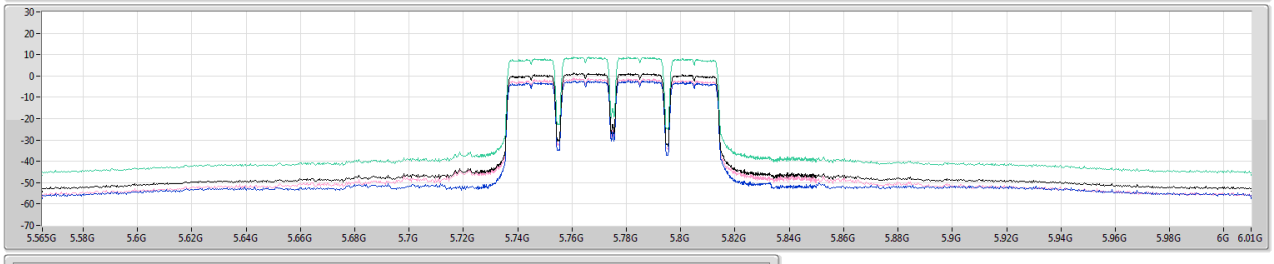


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.565G	1M	PK	5.56226G	-34.32	-27.00	-7.32	7.60	0.00	-41.92	-49.25	-42.81
5.565G	5.725G	1M	PK	5.63188G	-30.20	-27.00	-3.20	7.60	0.00	-37.80	-43.55	-39.15
5.85G	6.01G	1M	PK	5.93608G	-30.52	-27.00	-3.52	7.60	0.00	-38.12	-43.49	-39.61
6.01G	6.5G	1M	PK	6.02868G	-34.52	-27.00	-7.52	7.60	0.00	-42.12	-44.74	-45.56

11a80_Nss1,(6Mbps)_2TX **CSE-AV**

5775MHz

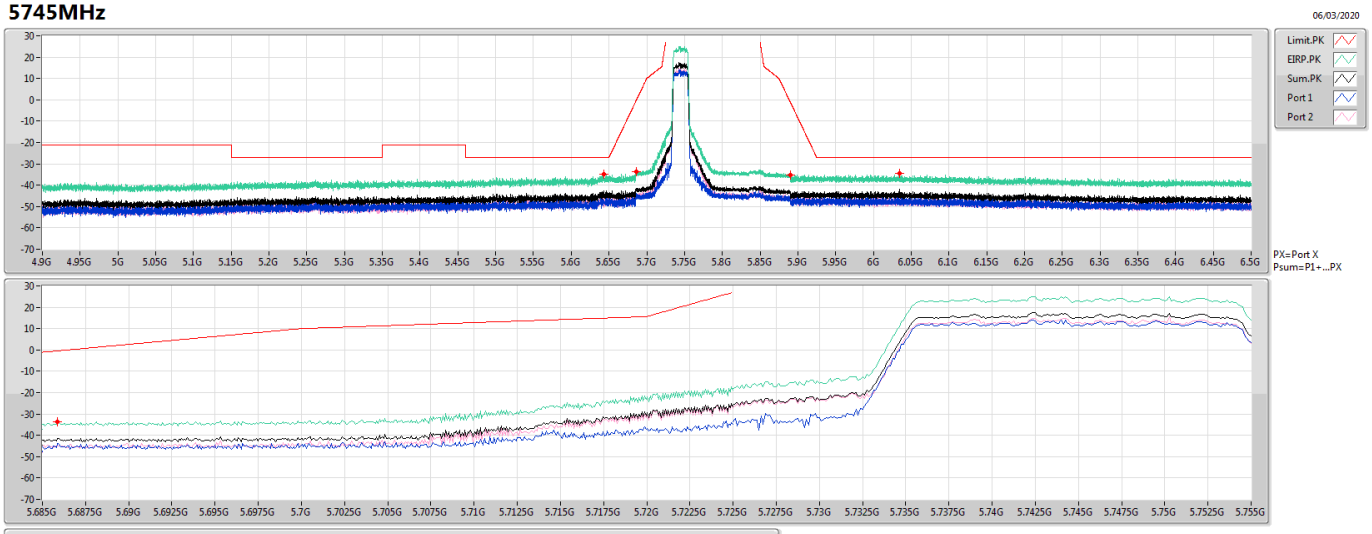




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.565G	1M	AV	5.45278G	-46.76	-41.20	-5.56	7.60	0.00	-54.36	-56.93	-57.86

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

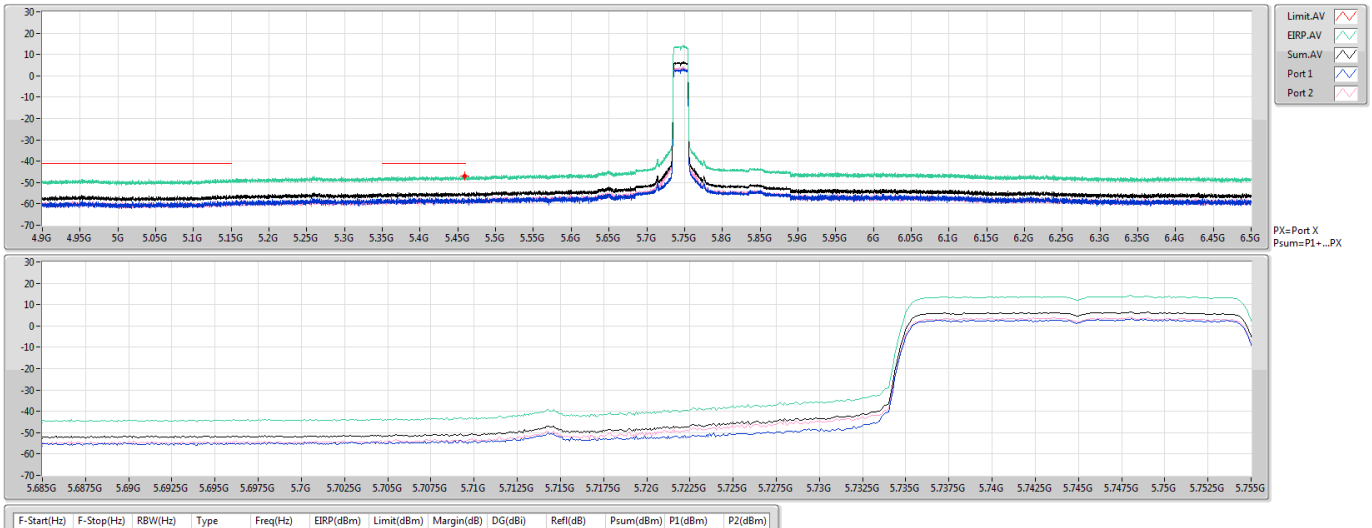
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	PK	5.64349G	-34.99	-27.00	-7.99	7.60	0.00	-42.59	-48.30	-43.95
5.685G	5.725G	1M	PK	5.68588G	-33.85	-0.45	-33.40	7.60	0.00	-41.45	-43.91	-45.08
5.85G	5.89G	1M	PK	5.89G	-35.40	-1.10	-34.30	7.60	0.00	-43.00	-47.31	-45.01
5.89G	6.5G	1M	PK	6.03442G	-34.37	-27.00	-7.37	7.60	0.00	-41.97	-47.09	-43.57

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

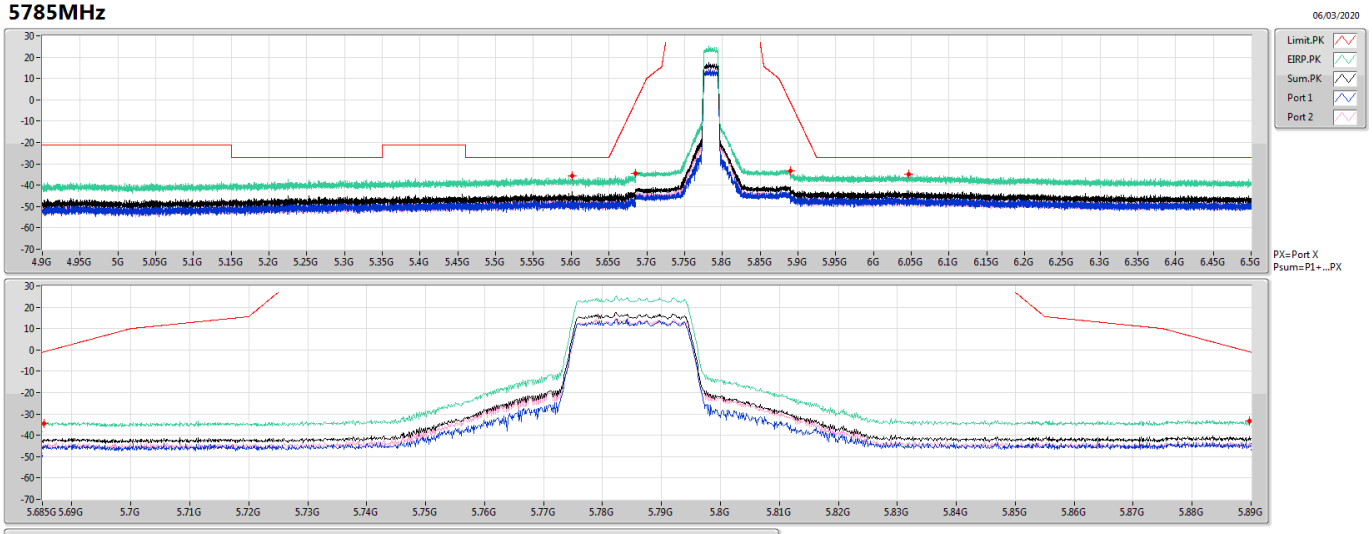
5745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	AV	5.45951G	-47.06	-41.20	-5.86	7.60	0.00	-54.66	-58.02	-57.35

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

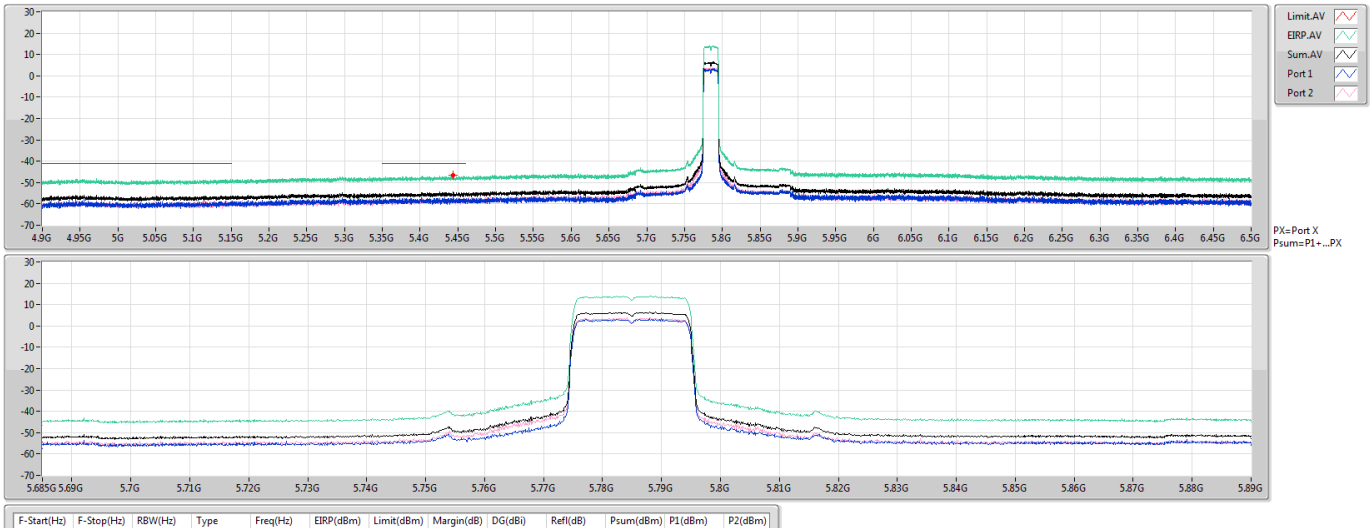
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	PK	5.6012G	-35.52	-27.00	-8.52	7.60	0.00	-43.12	-46.55	-45.75
5.685G	5.725G	1M	PK	5.68524G	-34.38	-0.92	-33.46	7.60	0.00	-41.98	-45.59	-44.47
5.85G	5.89G	1M	PK	5.88976G	-33.24	-0.92	-32.32	7.60	0.00	-40.84	-44.94	-42.98
5.89G	6.5G	1M	PK	6.04631G	-34.87	-27.00	-7.87	7.60	0.00	-42.47	-45.00	-46.02

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

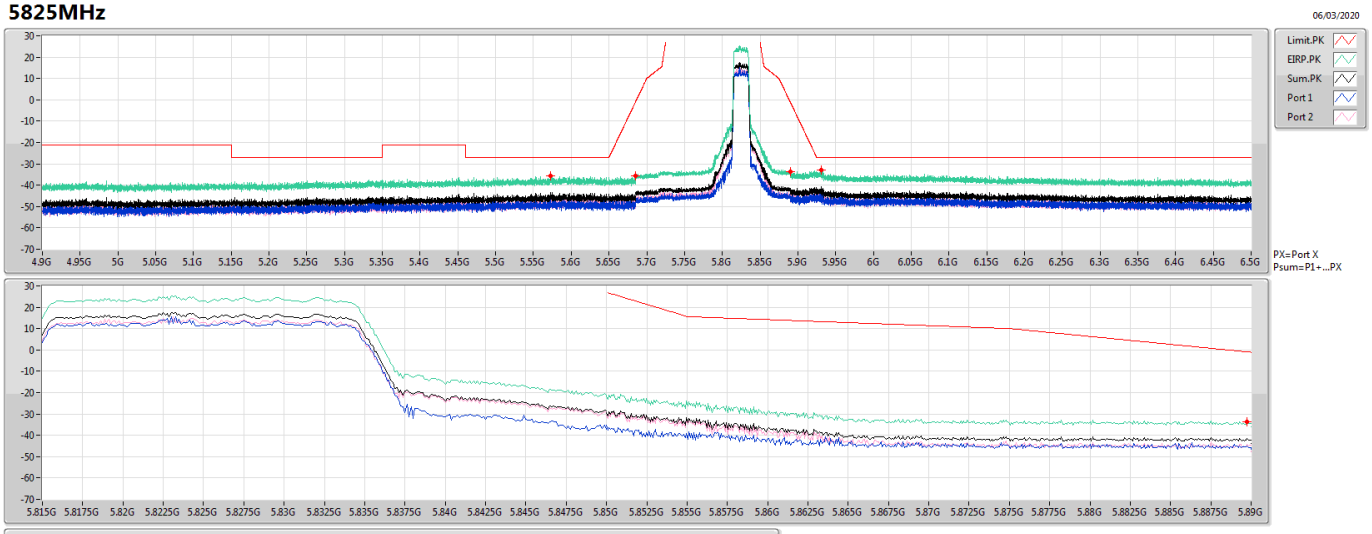
5785MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	AV	5.44351G	-46.73	-41.20	-5.53	7.60	0.00	-54.33	-56.31	-58.69

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-PK**

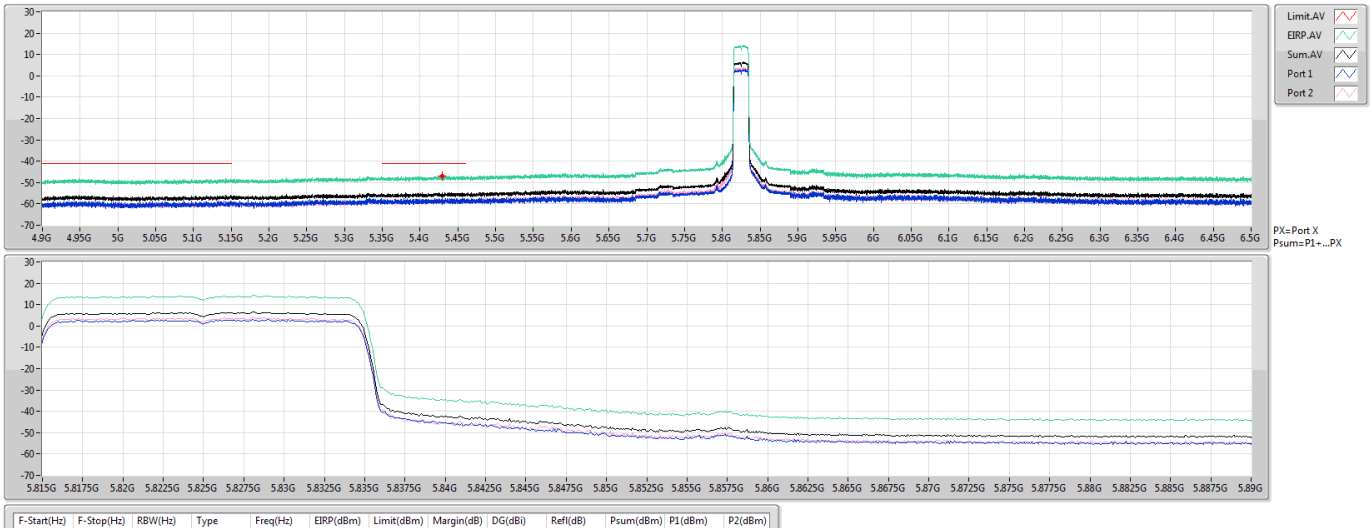
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	PK	5.57275G	-35.49	-27.00	-8.49	7.76	0.00	-43.25	-46.32	-46.20
5.685G	5.725G	1M	PK	5.685G	-35.62	-1.10	-34.52	7.76	0.00	-43.38	-46.05	-46.76
5.85G	5.89G	1M	PK	5.88976G	-33.85	-0.92	-32.93	7.76	0.00	-41.61	-44.85	-44.40
5.89G	6.5G	1M	PK	5.93049G	-33.01	-27.00	-6.01	7.76	0.00	-40.77	-43.45	-44.14

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE-AV**

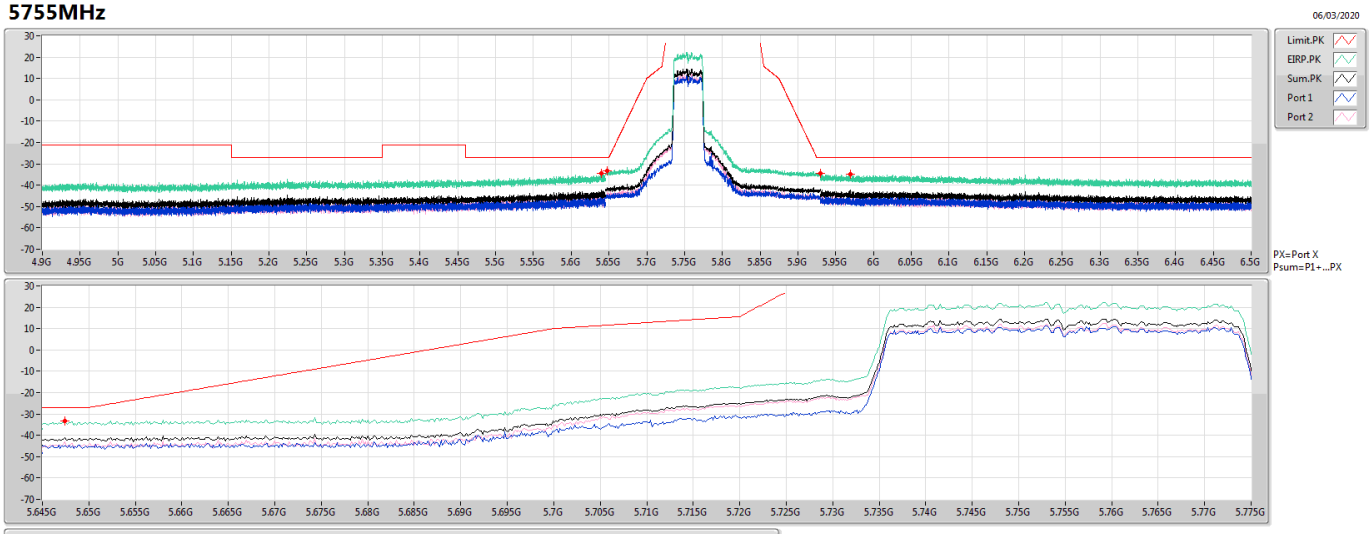
5825MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.685G	1M	AV	5.42889G	-46.92	-41.20	-5.72	7.76	0.00	-54.68	-57.16	-58.30

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-PK**

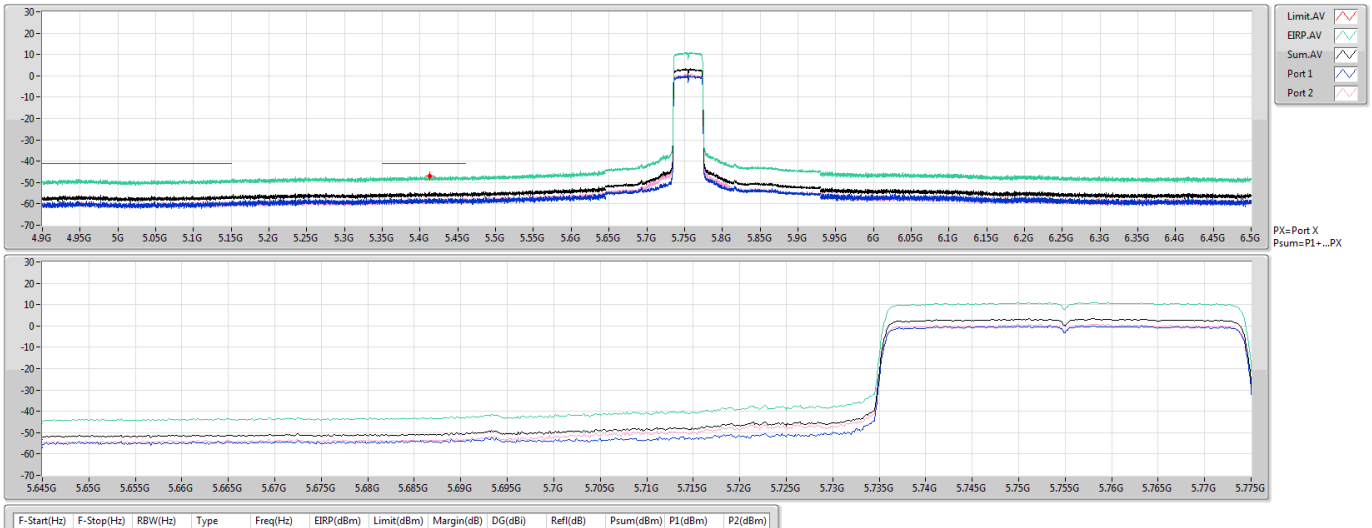
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	PK	5.63951G	-34.48	-27.00	-7.48	7.60	0.00	-42.08	-45.41	-44.80
5.645G	5.725G	1M	PK	5.6474G	-33.43	-27.00	-6.43	7.60	0.00	-41.03	-45.08	-43.21
5.85G	5.93G	1M	PK	5.92984G	-34.26	-27.00	-7.26	7.60	0.00	-41.86	-44.46	-45.33
5.93G	6.5G	1M	PK	5.96969G	-34.83	-27.00	-7.83	7.60	0.00	-42.43	-46.43	-44.64

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-AV**

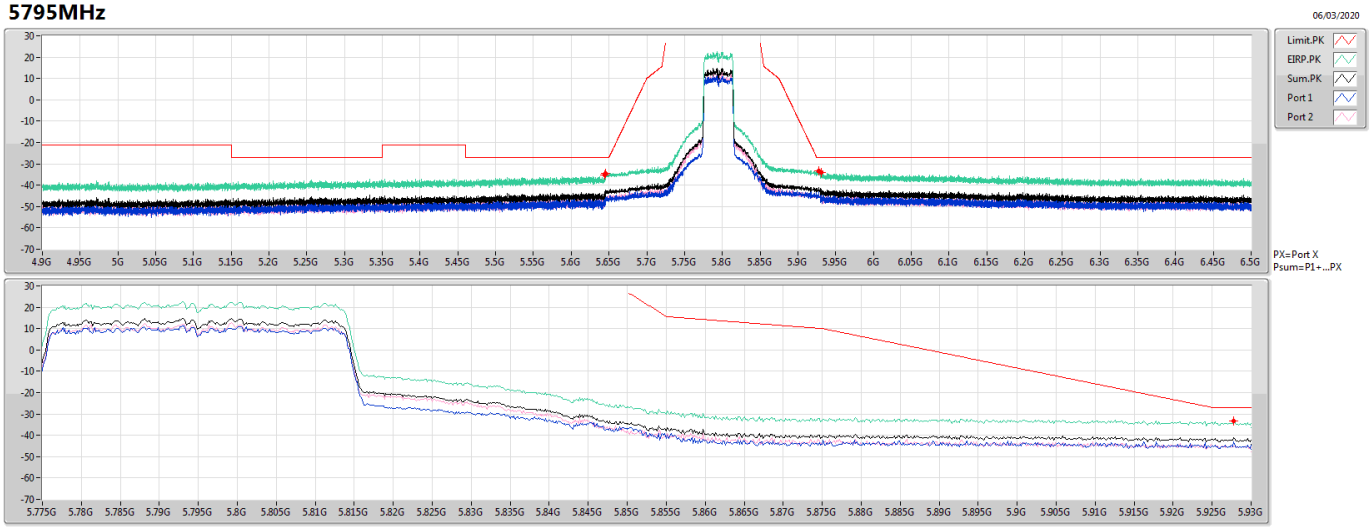
5755MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	AV	5.41247G	-46.92	-41.20	-5.72	7.60	0.00	-54.52	-57.61	-57.45

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-PK**

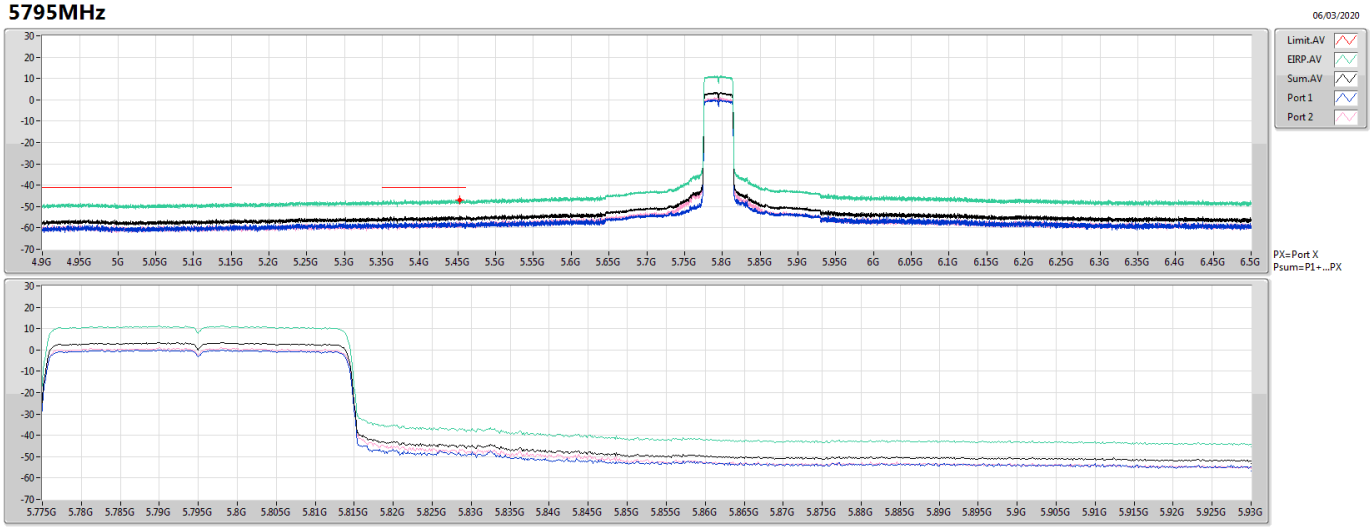
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	PK	5.64444G	-35.33	-27.00	-8.33	7.76	0.00	-43.09	-44.77	-48.02
5.645G	5.725G	1M	PK	5.64548G	-34.52	-27.00	-7.52	7.76	0.00	-42.28	-45.86	-44.79
5.85G	5.93G	1M	PK	5.92776G	-33.34	-27.00	-6.34	7.76	0.00	-41.10	-43.23	-45.21
5.93G	6.5G	1M	PK	5.93143G	-34.04	-27.00	-7.04	7.76	0.00	-41.80	-47.01	-43.36

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE-AV**

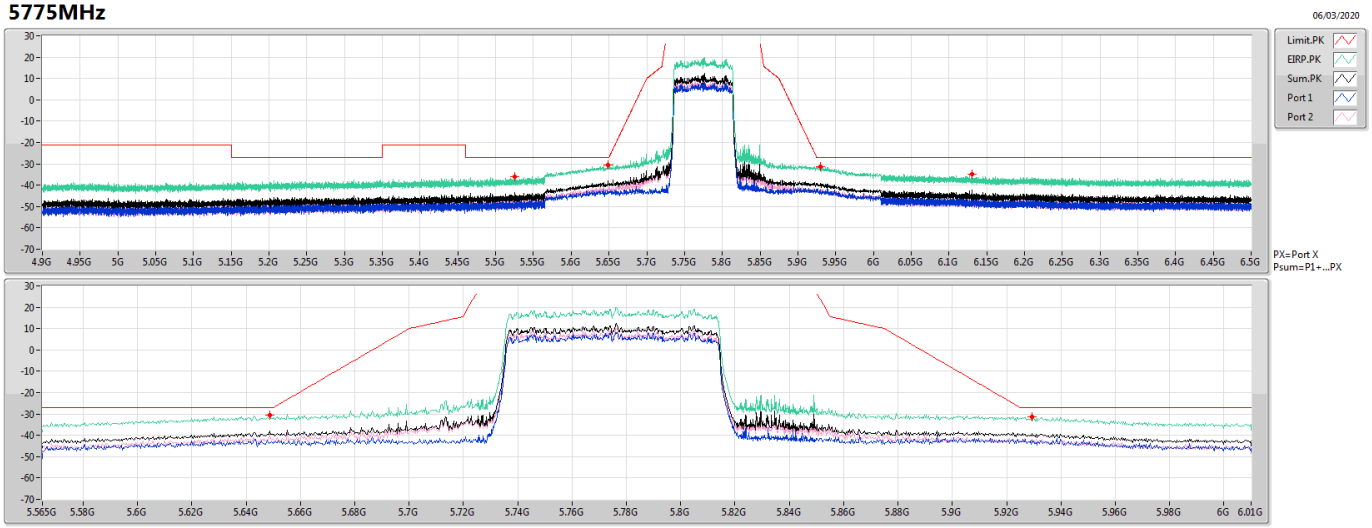
5795MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.645G	1M	AV	5.45288G	-46.76	-41.20	-5.56	7.76	0.00	-54.52	-58.05	-57.07

802.11ax HEW80_Nss1,(MCS0)_2TX **CSE-PK**

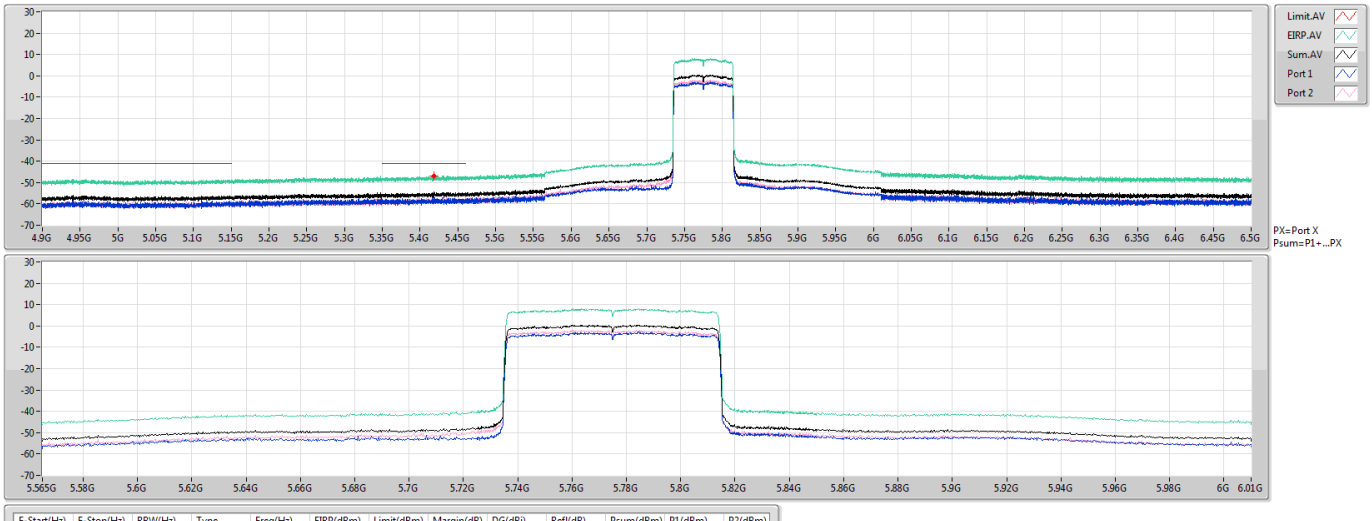
5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.565G	1M	PK	5.52485G	-35.86	-27.00	-8.86	7.60	0.00	-43.46	-47.95	-45.37
5.565G	5.725G	1M	PK	5.64884G	-30.53	-27.00	-3.53	7.60	0.00	-38.13	-43.25	-39.72
5.85G	6.01G	1M	PK	5.92936G	-31.49	-27.00	-4.49	7.60	0.00	-39.09	-42.15	-42.05
6.01G	6.5G	1M	PK	6.13109G	-34.84	-27.00	-7.84	7.60	0.00	-42.44	-43.59	-48.76

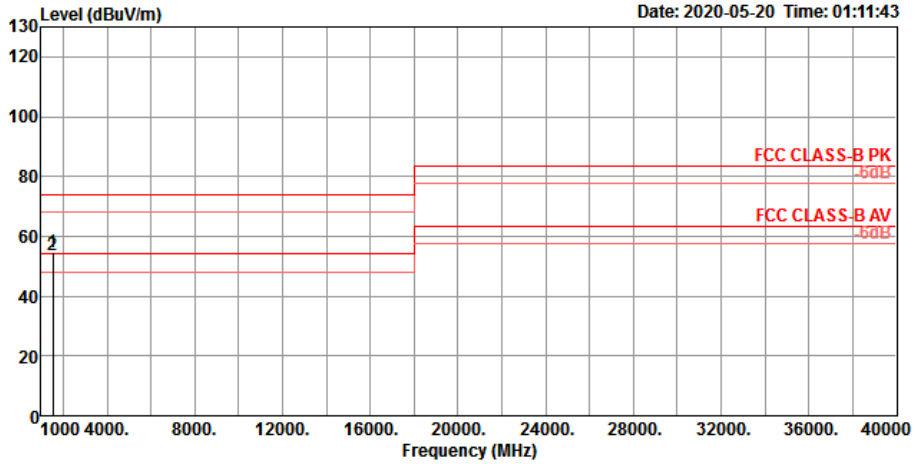
802.11ax HEW80_Nss1,(MCS0)_2TX **CSE-AV**

5775MHz



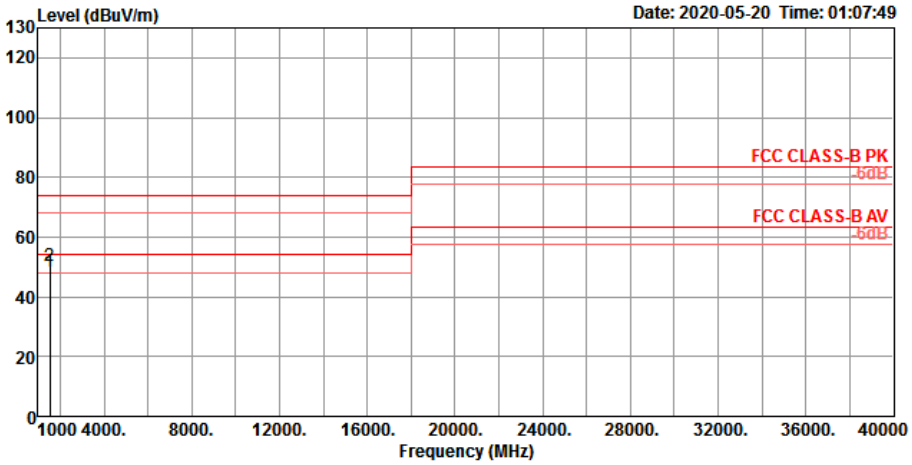
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dBi)	Refl(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.9G	5.565G	1M	AV	5.41878G	-46.87	-41.20	-5.67	7.60	0.00	-54.47	-56.72	-58.40

RSE Co-location Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1535.71	54.49	74.00	-19.51	61.28	2.74	25.96	35.49	100	155	Peak	HORIZONTAL
2	1535.74	53.56	54.00	-0.44	60.35	2.74	25.96	35.49	100	155	Average	HORIZONTAL

RSE Co-location Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1535.73	48.66	54.00	-5.34	55.45	2.74	25.96	35.49	100	163	Average	VERTICAL
2	1535.73	50.31	74.00	-23.69	57.10	2.74	25.96	35.49	100	163	Peak	VERTICAL