Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	UDX-600191010
Equipment	:	Catalyst Wireless 9163E Series Wi-Fi 6E Access Point
Brand Name	:	CISCO
Model Name	:	CW9163E-B, CW9163E-MR
Applicant	:	Cisco Systems, Inc. 170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer	:	Cisco Systems, Inc. 170 West Tasman Drive, San Jose, CA 95134 USA
Standard	:	47 CFR FCC Part 15.407

The product was received on Oct. 12, 2023, and testing was started from Oct. 17, 2023 and completed on Nov. 23, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR340101-03AD	01	Initial issue of report	Mar. 12, 2024

Summary of Test Result

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

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen
Report Producer: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5470-5725	a, n (HT20), ac (VHT20), ax (HEW20)	5500-5720	100-144 [12]
5470-5725	n (HT40), ac (VHT40), ax (HEW40)	5510-5710	102-142 [6]
5470-5725	ac (VHT80), ax (HEW80)	5530-5690	106-138 [3]

For Radio 1

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11a	20	1TX/2TX
5.47-5.725GHz	802.11n HT20	20	1TX/2TX
5.47-5.725GHz	802.11n HT20-BF	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	1TX/2TX
5.47-5.725GHz	802.11ac VHT20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	1TX/2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11n HT40	40	1TX/2TX
5.47-5.725GHz	802.11n HT40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	1TX/2TX
5.47-5.725GHz	802.11ac VHT40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	1TX/2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT80	80	1TX/2TX
5.47-5.725GHz	802.11ac VHT80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	1TX/2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX

For Scanning Radio 2

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11a	20	1TX
5.47-5.725GHz	802.11n HT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11ax HEW20	20	1TX
5.47-5.725GHz	802.11n HT40	40	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.47-5.725GHz	802.11ax HEW40	40	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11ax HEW80	80	1TX

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.

1.1.2 Antenna Information

Set	Ant.	2.4GHz Port	5GHz Port	6GHz Port	Bluetooth/ Zigbee	GPS	Brand	Model Name	Antenna Type	Connector	Remark	Gain (dBi)
1	1	2	2	-	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	Note 1
	2	1	1	-	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	
	3	-	-	1	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	
	4	-	-	2	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	
2	5	1	1	1	-	-	AWAN	A8M6P-100005	PIFA	N-Type	Internal Antenna	
3	6	-	-	-	1	-	AWAN	A8M6P-100003	PIFA	N-Type	Internal Antenna	
4	7	-	-	-	-	1	AWAN	A8M6P-100004	PIFA	N-Type	Internal Antenna	
5	8	-	-	-	-	2	CISCO	CW-ANT-GPS2-S-00	Patch	SMA	External Antenna	
6	9	2	2	-	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	
	10	1	1	-	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	
	11	-	-	1	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	
	12	-	-	2	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	

Note1:

Ant.	Gain (dBi)								
	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3	6GHz UNII 5	6GHz UNII 7	Bluetooth / Zigbee	GPS
1	4	8	8	8	8	-	-	-	-
2	4	8	8	8	8	-	-	-	-
3	-	-	-	-	-	8	8	-	-
4	-	-	-	-	-	8	8	-	-
5	4.9	3	3	3.1	3	2.8	3.2	-	-
6	-	-	-	-	-	-	-	5.7	-
7	-	-	-	-	-	-	-	-	3.7
8	-	-	-	-	-	-	-	-	3.18
9	8	9	9	9	9	-	-	-	-
10	8	9	9	9	9	-	-	-	-
11	-	-	-	-	-	9	9	-	-
12	-	-	-	-	-	9	9	-	-

Note2: The above information was declared by manufacturer.
Note3: The antenna 9~ 10 is the cross-polarized antenna; it doesn't need to evaluate array gain.
Note4: For radio 1: The EUT can be equipped with antenna set 1 or set 6 for radio 1.

Note5: Directional gain information

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

Ex.

Directional Gain (NSS1) formula : $Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left[\sum_{k=1}^{N_{ANT}} g_{j,k}\right]^2}{N_{ANT}}\right]$

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

gj,k =(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2 / N_{ANT}] => 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / N_{ANT}]

Where ;

Set 1 Ant. Dipole

2.4G G1= 4 dBi ; G2= 4 dBi ;DG= 7.01dBi

5G G1= 8 dBi ; G2= 8 dBi ;DG= 11.01dBi

6G G1= 8 dBi ; G2= 8 dBi ;DG= 11.01dBi

Set 6 Ant. Patch Patch (Cross-Polarized Antenna)

2.4G G1= 8.00 dBi ;G2= 8.00 dBi ;

5G UNII-1 G1 = 9.00 dBi; G2 = 9.00 dBi;

5G UNII-2A G1 = 9.00 dBi; G2 = 9.00 dBi;

5G UNII-2C G1 = 9.00 dBi; G2 = 9.00 dBi;

5G UNII-3 G1 = 9.00 dBi; G2 = 9.00 dBi;

2.4G DG = 8.00 dBi

5G UNII-1 DG = 9.00 dBi

5G UNII-2A DG = 9.00 dBi

5G UNII-2C DG = 9.00 dBi

5G UNII-3 DG = 9.00 dBi

Set 6 Ant. Patch

6G G1= 9 dBi ; G2= 9 dBi ;DG= 12.01dBi

<For Radio 1 (2.4GHz/5GHz/6GHz Functions)>
IEEE 802.11a/b/g/n/VHT/ax
For 1TX/2RX:
The EUT supports the antenna with TX diversity functions.
Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used to transmit at one time.
For 2TX/2RX:
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
<For Scanning Radio 2 (2.4GHz/5GHz/6GHz Functions)>
IEEE 802.11a/b/g/n/VHT/ax
For 1TX/1RX:
Only Port 1 can be use as transmitting/receiving antenna.
<For Radio 3 / Bluetooth/Zigbee Functions>
For 1TX/1RX:
Only Port 1 can be use as transmitting/receiving antenna.
<For Radio 4 / GPS Functions>
For 1RX:
The EUT supports the antenna with RX diversity functions.
Both Port 1 and Port 2 support receive functions, but only one of them will be used to receive at one time.

1.1.3 Mode Test Duty Cycle

For Radio 1 + Set 6 Ant.

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.942	0.26	1.977m	1k
802.11ax HEW20	0.801	0.96	5.453m	300
802.11ax HEW20-BF	0.801	0.96	5.452m	300
802.11ax HEW40	0.799	0.97	5.453m	300
802.11ax HEW40-BF	0.802	0.96	5.453m	300
802.11ax HEW80	0.801	0.96	5.452m	300
802.11ax HEW80-BF	0.799	0.97	5.453m	300

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 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☒	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QSPR Version 5.0-00202			

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	SW
CW9163E-B	Cisco
CW9163E-MR	Meraki

Note1: From the above models, model: CW9163E-B was selected as representative model for the test and its data was recorded in this report.
Note2: The above information was declared by manufacturer.

1.1.6 Table of Serial Number

Test items	Serial Number
1. AC Power-line Conducted Emissions 2. Radiated Emission Co-location (As below for Non Beamforming mode) 3. Emission Bandwidth 4. Maximum Output Power 5. Power Spectral Density 6. Unwanted Emissions below 1GHz 7. Unwanted Emissions above 1GHz	DSM2711000W
(As below for Beamforming mode) 8. Maximum Output Power	DSM2711001S

Note: The above information was declared by manufacturer.

1.1.7 Table for Radio Function

Radio	Support Band
1	2.4GHz / 5GHz UNII 1~UNII 3 / 6GHz UNII5 , UNII 7
2	Scanning 2.4GHz / 5GHz UNII 1~UNII 3 / 6GHz UNII5 , UNII 7
3	Bluetooth / Zigbee
4	GPS

Note1: The above information was declared by manufacturer.
Note2: The Radio 1 and Radio 2 can't be operated simultaneously.

1.1.8 Table for EUT Information

EUT	RJ-45 Connector	Console Connector
1	Brand Name: UDE Model Name: R66-MK-3001	Brand Name: UDE Model Name: R66-MK-2001
2	Brand Name: ODS Model Name: CMK-RJ45-CAP	Brand Name: ODS Model Name: CMK-RJ45-CG

Note1: From the above EUTs, EUT 1 was selected as representative EUT for all the tests and its data was recorded in this report.
Note2: The above information was declared by manufacturer.

1.1.9 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR340101AD

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

Modifications	Performance Checking
1. Adding one set antenna (antenna set 6) with different antenna type and higher gain for Radio 1 use only.	All test items (Except Radiated Emission Co-location)
2. Adding a bracket of antenna and used for antenna set 6. 3. Revise the typo in antenna model names to “CW-ANT-O1-NS-00” from “CW-ANT-O1-NS” and to “CW-ANT-GPS2-S-00” from “CW-ANT-GPS2”.	After evaluating, it is not necessary to re-test all test items.

1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Ken Yeh	20.5~21.3 / 63~67	Oct. 17, 2023~Oct. 31, 2023
Radiated below 1GHz	03CH01-CB	Jackson Peng	21.2-22.3 / 56-59	Oct. 17, 2023~Nov.17, 2023
Radiated above 1GHz	03CH03-CB	Jackson Peng	22.7-23.8 / 56-59	Oct. 17, 2023~Nov.17, 2023
AC Conduction	CO01-CB	Joe Chu	22~23 / 54~55	Nov. 23, 2023

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

For Radio 1 + Set 6 Ant.

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5500MHz	19
5580MHz	19
5700MHz	19.5
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5500MHz	20
5580MHz	20
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	21.5
5720MHz Straddle 5.725-5.85GHz	21.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5510MHz	19
5550MHz	19.5
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	21.5
5710MHz Straddle 5.725-5.85GHz	21.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5530MHz	17.5
5610MHz	19.5
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5
802.11a_Nss1,(6Mbps)_1TX	-
5500MHz	19.5
5580MHz	19.5
5700MHz	19.5
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5500MHz	20.5
5580MHz	20.5
5700MHz	20.5
5720MHz Straddle 5.47-5.725GHz	21.5
5720MHz Straddle 5.725-5.85GHz	21.5

Mode	Power Setting
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5510MHz	18.5
5550MHz	20
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	21.5
5710MHz Straddle 5.725-5.85GHz	21.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5530MHz	16.5
5610MHz	20.5
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21
802.11a_Nss1,(6Mbps)_2TX	-
5500MHz	16
5580MHz	16
5700MHz	16.5
5720MHz Straddle 5.47-5.725GHz	16.5
5720MHz Straddle 5.725-5.85GHz	16.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5500MHz	17
5580MHz	17
5700MHz	17.5
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5510MHz	16.5
5550MHz	16.5
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5530MHz	15.5
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5500MHz	17
5580MHz	17
5700MHz	17.5
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5

Mode	Power Setting
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5510MHz	16.5
5550MHz	16.5
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5530MHz	15.5
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17

Note:
- Evaluated HEW20/HEW40/HEW80 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.
- The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1. The EUT powered by PoE 1~5, and “PoE 3” has been evaluated to be the worst case. Thus, the measurement will follow this same test mode. 2. There are EUT 1 and EUT 2, and “EUT 1” has been evaluated to be the worst case. Thus, the measurement will follow this same test mode.	
1	EUT 1 + Radio 1 (2.4GHz) + PoE 3 + Set 6 Ant.
2	EUT 1 + Radio 1 (5GHz) + PoE 3 + Set 6 Ant.
3	EUT 1 + Radio 1 (6GHz) + PoE 3 + Set 6 Ant.
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 1 + Set 6 Ant.

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
1. After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration. 2. The EUT powered by PoE 1~5, and “PoE 5” has been evaluated to be the worst case. Thus, the measurement will follow this same test mode. 3. There are EUT 1 and EUT 2, and “EUT 1” has been evaluated to be the worst case. Thus, the measurement will follow this same test mode.	
1	EUT 1 in Y axis + Radio 1 (2.4GHz) + PoE 5 + Set 6 Ant.
2	EUT 1 in Y axis + Radio 1 (5GHz) + PoE 5 + Set 6 Ant.
3	EUT 1 in Y axis + Radio 1 (6GHz) + PoE 5 + Set 6 Ant.
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 1 in Y axis + Radio 1 + Set 6 Ant.

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
2	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
3	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Bluetooth) + Set 3 Ant.
4	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Zigbee) + Set 3 Ant.
5	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Zigbee) + Set 3 Ant.
6	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Zigbee) + Set 3 Ant.
7	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
8	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
9	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Bluetooth) + Set 3 Ant.
10	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Zigbee) + Set 3 Ant.
11	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Zigbee) + Set 3 Ant.
12	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Zigbee) + Set 3 Ant.
Refer to Sporton Test Report No.: FA340101-03 for Co-location RF Exposure Evaluation.	

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

PoE information as below:

Power	Brand Name	Model Name
PoE 1	PHIHONG	POEA33U-1ATE
PoE 2	PHIHONG	POE60U-1BT-X
PoE 3	PHIHONG	POE29U-1AT(PL)
PoE 4	Delta	ADH-65AR B
PoE 5	Cisco	POEO75U-1BT

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Equipment	Brand Name	Model Name	Remark
Mount bracket 1*1	Meraki	MA-MNT-MR-16	Used for CW9163E-MR
Mount bracket 2*1	Cisco	AIR-MNT-VERT1	Used for CW9163E-B
Waterproof Covering (Cap) 1*1	UDE	R66-MK-3001	Used for EUT 1
Waterproof Covering (Cap) 2*1	ODS	CMK-RJ45-CAP	Used for EUT 2
Waterproof Covering (Cable Gland) 1*1	UDE	R66-MK-2001	Used for EUT 1
Waterproof Covering (Cable Gland) 2*1	ODS	CMK-RJ45-CG	Used for EUT 2
Bracket of antenna	Cisco	CW-WNT-ART2	Used for Ant.9~12

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	PoE 3	PHIHONG	POE29U-1AT(PL)	N/A

For Radiated:

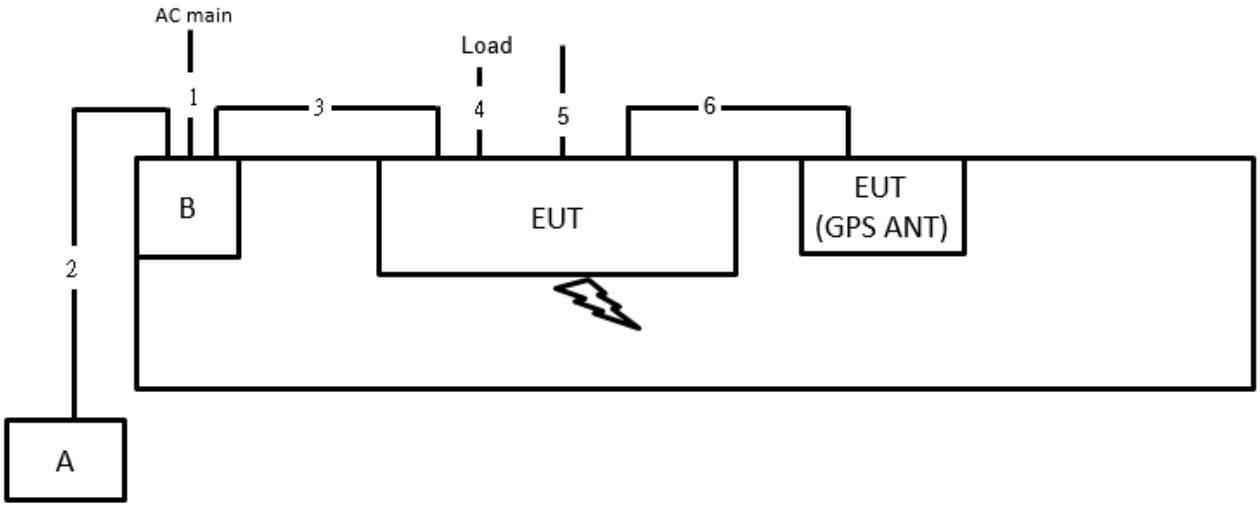
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE 5	Cisco	POEO75U-1BT	N/A
B	Notebook	DELL	E6430	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	PoE 4	Delta	ADH-65AR B	N/A

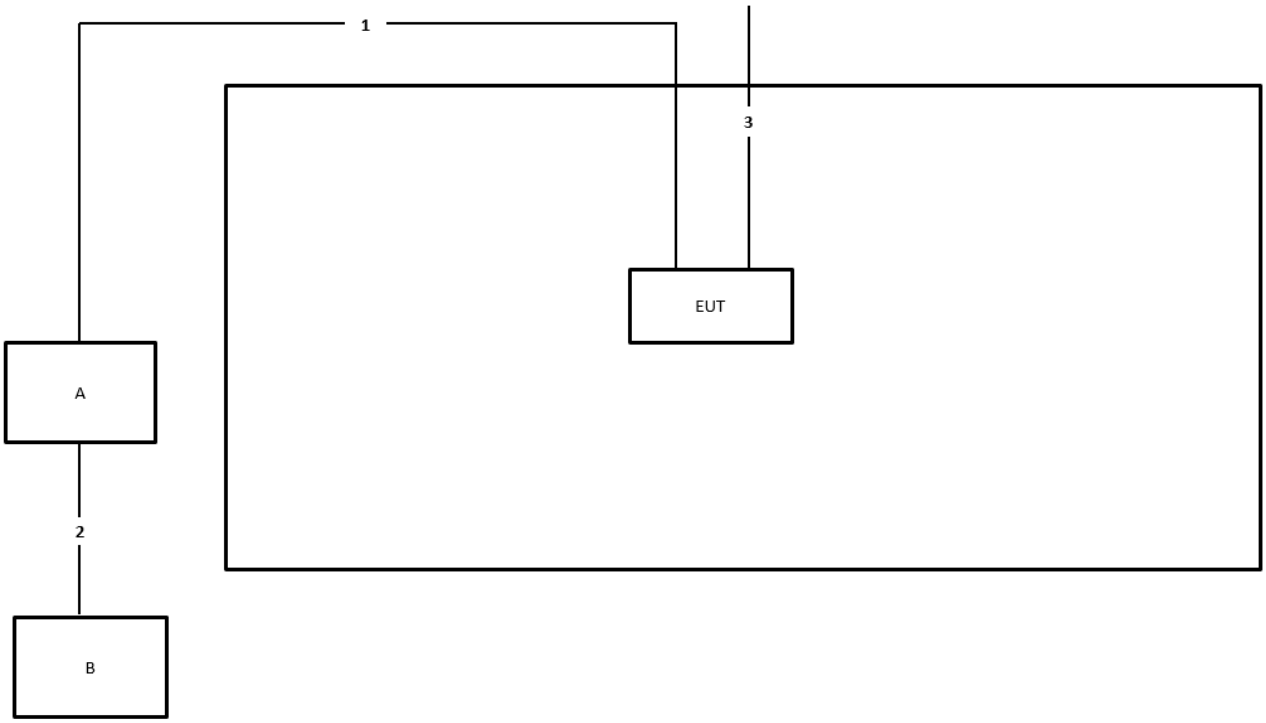
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



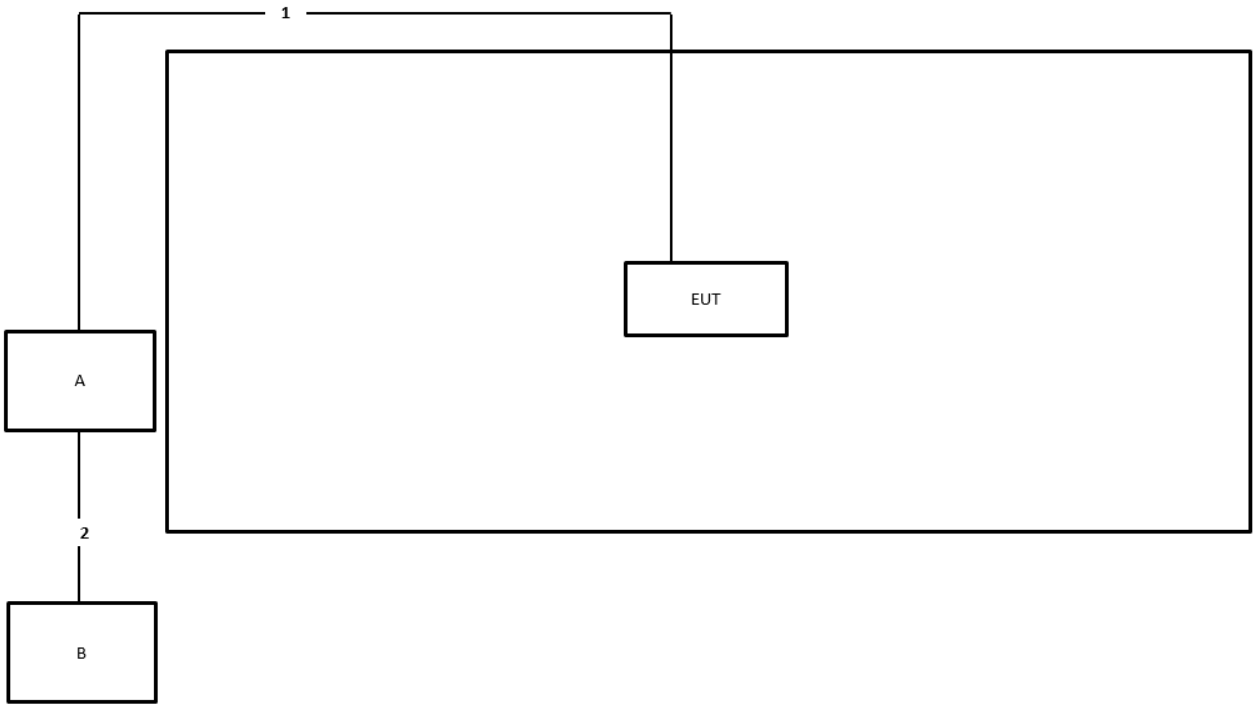
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m
4	Console cable	No	1.8m
5	GND cable	No	1.5m
6	Ant cable	No	3m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Ground cable	No	1m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m

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

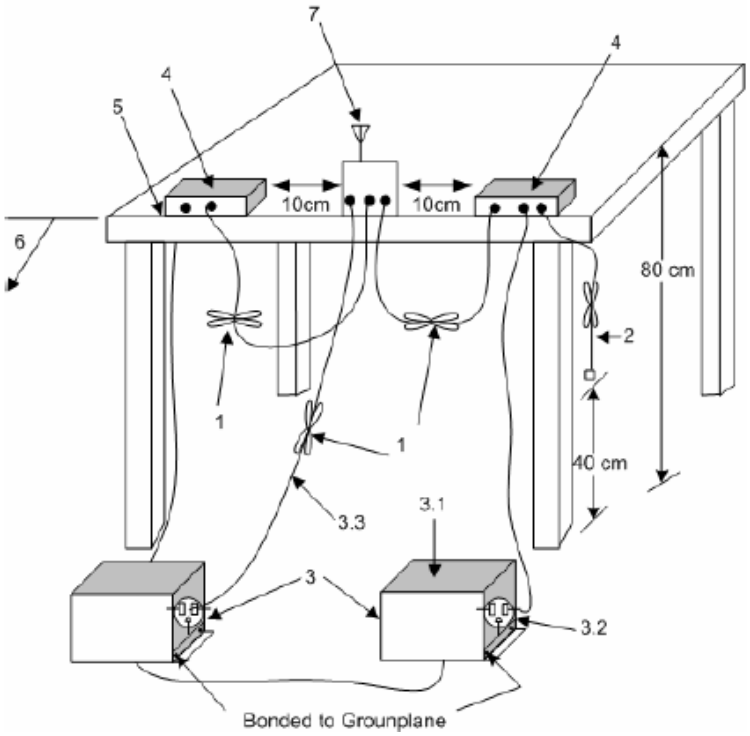
Refer a test equipment and calibration data table in this test report.

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 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit
UNII Devices
☐ 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, 26 dB emission bandwidth ,N/A. 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

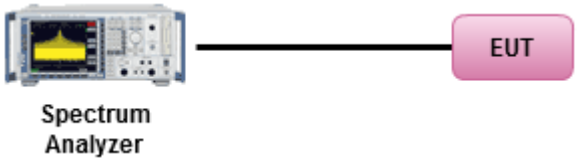
Refer a test equipment and calibration data table in this test report.

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 D02, 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 Output Power

3.3.1 Limit

Maximum 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

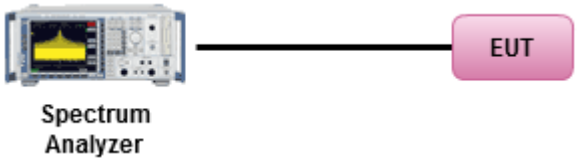
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, 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]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F ”Antenna-port Conducted versus Radiated Testing”
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

For Straddle channel

Conducted Measurement (Spectrum Analyzer)


For others channel

Conducted Measurement (Power Meter)


3.3.5 Test Result of Maximum Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐	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

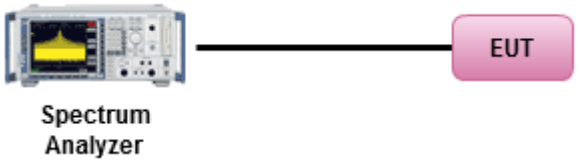
Refer a test equipment and calibration data table in this test report.

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 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]	
	☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
	☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor	
	☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐	Refer as FCC KDB 789033 D02, 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]) $EIRP_{total} = PPSD_{total} + DG$
☐	For radiated measurement.	
	▪	Refer as FCC KDB 789033 D02 clause II A.1.F ”Antenna-port Conducted versus Radiated Testing”
	▪	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.

Test Method	
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup

Conducted Measurement


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
☐ 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.

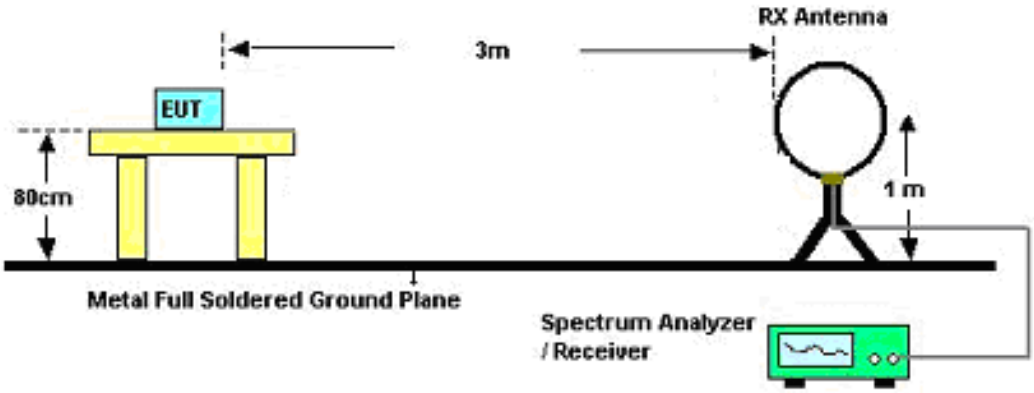
3.5.3 Test Procedures

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 D02, clause G)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
		☒ Refer as FCC KDB 789033 D02, 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 D02, 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.		

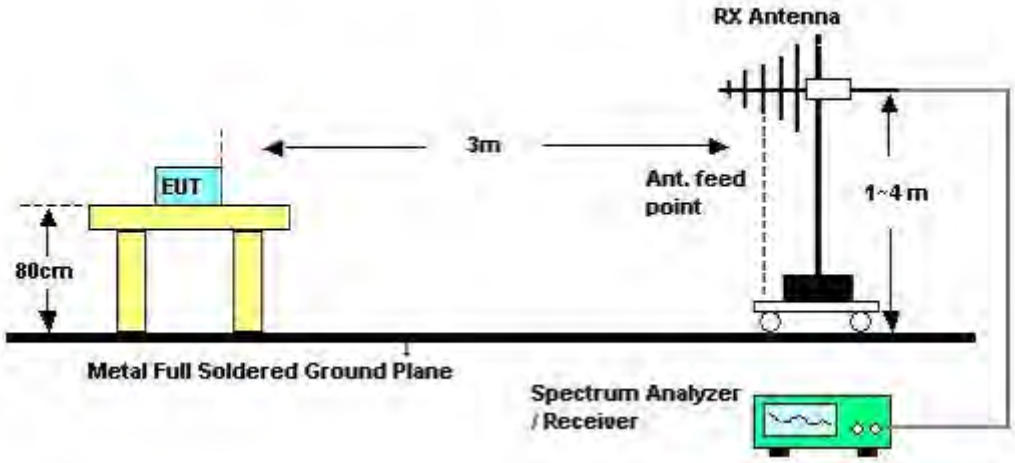
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

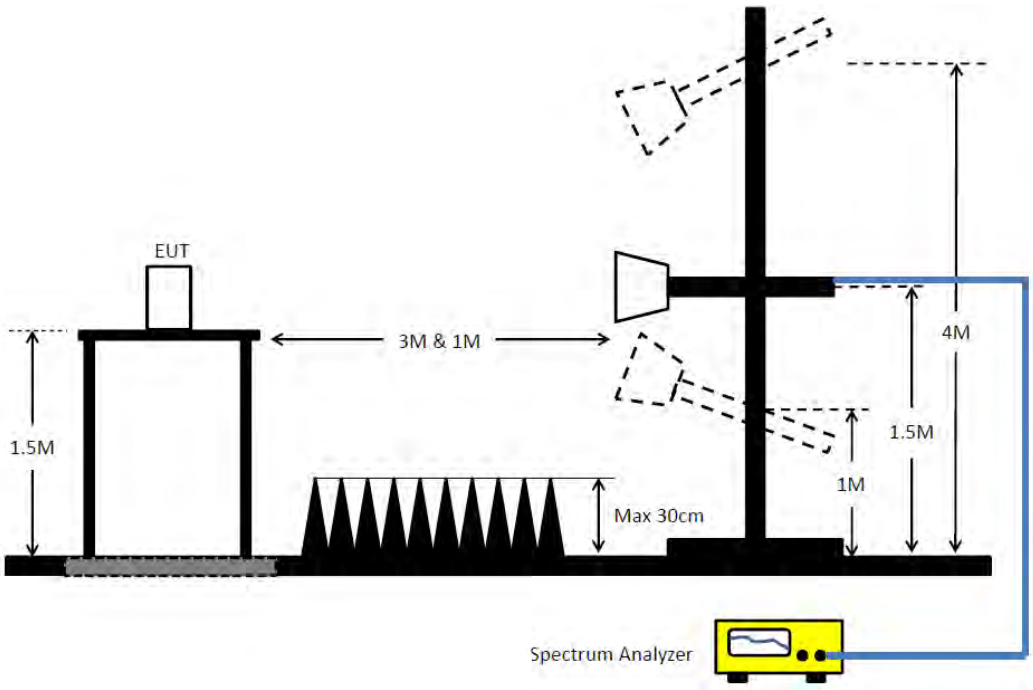
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2023	Jan. 15, 2024	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 23, 2023	Jun. 22, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30 MHz ~ 1 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS·Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20230109-3	18~40GHz	Jan. 13, 2023	Jan. 12, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

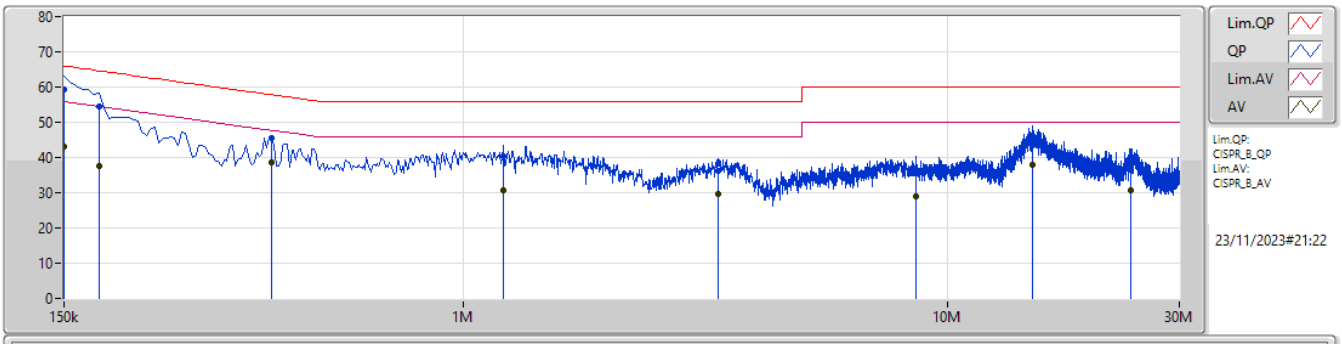
Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

Summary

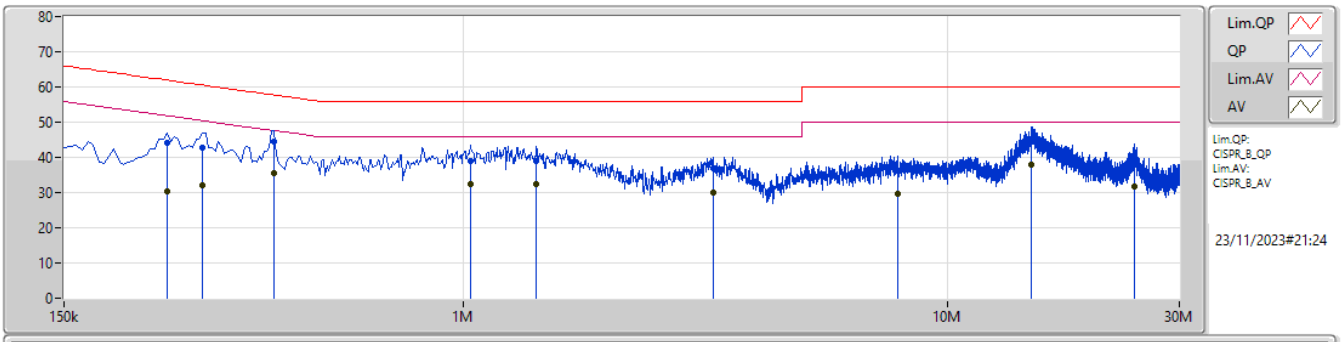
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	59.21	66.00	-6.79	Line

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	59.21	66.00	-6.79	9.98	Line	"Worst"	49.23	0.09	0.02	9.87
AV	150k	43.24	56.00	-12.76	9.98	Line	-	33.26	0.09	0.02	9.87
QP	177k	54.36	64.62	-10.26	9.97	Line	-	44.39	0.08	0.02	9.87
AV	177k	37.60	54.62	-17.02	9.97	Line	-	27.63	0.08	0.02	9.87
QP	402k	45.36	57.82	-12.46	10.01	Line	-	35.35	0.09	0.02	9.90
AV	402k	38.56	47.82	-9.26	10.01	Line	-	28.55	0.09	0.02	9.90
QP	1.208M	40.40	56.00	-15.60	10.05	Line	-	30.35	0.12	0.03	9.90
AV	1.208M	30.82	46.00	-15.18	10.05	Line	-	20.77	0.12	0.03	9.90
QP	3.363M	36.25	56.00	-19.75	10.19	Line	-	26.06	0.16	0.12	9.91
AV	3.363M	29.73	46.00	-16.27	10.19	Line	-	19.54	0.16	0.12	9.91
QP	8.61M	35.40	60.00	-24.60	10.32	Line	-	25.08	0.24	0.14	9.94
AV	8.61M	28.86	50.00	-21.14	10.32	Line	-	18.54	0.24	0.14	9.94
QP	14.951M	44.85	60.00	-15.15	10.44	Line	-	34.41	0.28	0.18	9.98
AV	14.951M	38.09	50.00	-11.91	10.44	Line	-	27.65	0.28	0.18	9.98
QP	23.888M	37.51	60.00	-22.49	10.59	Line	-	26.92	0.31	0.24	10.04
AV	23.888M	30.82	50.00	-19.18	10.59	Line	-	20.23	0.31	0.24	10.04

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	244.5k	44.25	61.95	-17.70	9.96	Neutral	-	34.29	0.07	0.02	9.87
AV	244.5k	30.29	51.95	-21.66	9.96	Neutral	-	20.33	0.07	0.02	9.87
QP	289.5k	42.69	60.53	-17.84	9.97	Neutral	-	32.72	0.07	0.02	9.88
AV	289.5k	31.98	50.53	-18.55	9.97	Neutral	-	22.01	0.07	0.02	9.88
QP	406.5k	44.46	57.72	-13.26	9.99	Neutral	-	34.47	0.07	0.02	9.90
AV	406.5k	35.66	47.72	-12.06	9.99	Neutral	"Worst"	25.67	0.07	0.02	9.90
QP	1.032M	38.88	56.00	-17.12	9.99	Neutral	-	28.89	0.08	0.01	9.90
AV	1.032M	32.39	46.00	-13.61	9.99	Neutral	-	22.40	0.08	0.01	9.90
QP	1.415M	38.86	56.00	-17.14	10.03	Neutral	-	28.83	0.09	0.04	9.90
AV	1.415M	32.55	46.00	-13.45	10.03	Neutral	-	22.52	0.09	0.04	9.90
QP	3.273M	36.93	56.00	-19.07	10.15	Neutral	-	26.78	0.12	0.12	9.91
AV	3.273M	29.89	46.00	-16.11	10.15	Neutral	-	19.74	0.12	0.12	9.91
QP	7.881M	36.15	60.00	-23.85	10.27	Neutral	-	25.88	0.20	0.14	9.93
AV	7.881M	29.82	50.00	-20.18	10.27	Neutral	-	19.55	0.20	0.14	9.93
QP	14.838M	44.70	60.00	-15.30	10.42	Neutral	-	34.28	0.26	0.18	9.98
AV	14.838M	37.93	50.00	-12.07	10.42	Neutral	-	27.51	0.26	0.18	9.98
QP	24.212M	38.43	60.00	-21.57	10.62	Neutral	-	27.81	0.34	0.24	10.04
AV	24.212M	31.61	50.00	-18.39	10.62	Neutral	-	20.99	0.34	0.24	10.04

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.635M	16.392M	16M4D1D	14.76M	13.144M
802.11a_Nss1,(6Mbps)_1TX	19.58M	16.432M	16M4D1D	14.955M	13.178M
802.11a_Nss1,(6Mbps)_2TX	20.295M	16.461M	16M5D1D	14.775M	13.137M
802.11ax HEW20_Nss1,(MCS0)_1TX	20.955M	18.932M	18M9D1D	15.015M	14.393M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.285M	18.959M	19M0D1D	15.18M	14.401M
802.11ax HEW20_Nss1,(MCS0)_2TX	20.68M	18.978M	19M0D1D	15.075M	14.366M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.71M	37.912M	37M9D1D	34.72M	33.729M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.93M	37.885M	37M9D1D	34.93M	33.65M
802.11ax HEW40_Nss1,(MCS0)_2TX	39.71M	37.917M	37M9D1D	35.14M	33.685M
802.11ax HEW80_Nss1,(MCS0)_1TX	80.3M	77.421M	77M4D1D	75.3M	72.829M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.18M	77.115M	77M1D1D	75.075M	73.123M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.96M	77.295M	77M3D1D	75.3M	72.644M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.26M	3.572M	3M57D1D	3.26M	3.572M
802.11a_Nss1,(6Mbps)_1TX	3.2M	3.547M	3M55D1D	3.2M	3.547M
802.11a_Nss1,(6Mbps)_2TX	3.24M	3.604M	3M60D1D	3.24M	3.558M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.54M	4.575M	4M58D1D	4.54M	4.575M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.54M	4.547M	4M55D1D	4.54M	4.547M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.52M	4.612M	4M61D1D	4.48M	4.562M
802.11ax HEW40_Nss1,(MCS0)_1TX	4.06M	4.113M	4M11D1D	4.06M	4.113M
802.11ax HEW40_Nss1,(MCS0)_1TX	4.06M	4.096M	4M10D1D	4.06M	4.096M
802.11ax HEW40_Nss1,(MCS0)_2TX	4.06M	4.109M	4M11D1D	4.06M	4.086M
802.11ax HEW80_Nss1,(MCS0)_1TX	4.06M	4.114M	4M11D1D	4.06M	4.114M
802.11ax HEW80_Nss1,(MCS0)_1TX	4.08M	4.111M	4M11D1D	4.08M	4.111M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.12M	23.79M	23M8D1D	4.02M	4.18M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5500MHz	Pass	Inf	19.36M	16.362M	-	-
5580MHz	Pass	Inf	19.635M	16.392M	-	-
5700MHz	Pass	Inf	18.37M	16.352M	-	-
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.76M	13.144M	-	-
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	3.572M	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5500MHz	Pass	Inf	20.185M	18.864M	-	-
5580MHz	Pass	Inf	20.955M	18.932M	-	-
5700MHz	Pass	Inf	20.13M	18.873M	-	-
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.015M	14.393M	-	-
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	4.575M	-	-
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5510MHz	Pass	Inf	39.71M	37.585M	-	-
5550MHz	Pass	Inf	39.38M	37.912M	-	-
5670MHz	Pass	Inf	39.71M	37.764M	-	-
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.72M	33.729M	-	-
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	4.113M	-	-
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5530MHz	Pass	Inf	80.3M	77.238M	-	-
5610MHz	Pass	Inf	79.86M	77.421M	-	-
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.3M	72.829M	-	-
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	4.114M	-	-
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5500MHz	Pass	Inf	-	-	19.58M	16.432M
5580MHz	Pass	Inf	-	-	18.59M	16.409M
5700MHz	Pass	Inf	-	-	18.81M	16.35M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	-	-	14.955M	13.178M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	-	-	3.2M	3.547M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5500MHz	Pass	Inf	-	-	20.46M	18.911M
5580MHz	Pass	Inf	-	-	20.075M	18.84M
5700MHz	Pass	Inf	-	-	21.285M	18.959M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	-	-	15.18M	14.401M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	-	-	4.54M	4.547M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5510MHz	Pass	Inf	-	-	39.38M	37.403M
5550MHz	Pass	Inf	-	-	39.93M	37.5M
5670MHz	Pass	Inf	-	-	39.38M	37.885M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	-	-	34.93M	33.65M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	-	-	4.06M	4.096M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5530MHz	Pass	Inf	-	-	80.08M	77.115M
5610MHz	Pass	Inf	-	-	81.18M	76.961M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	-	-	75.075M	73.123M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	-	-	4.08M	4.111M
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	Inf	19.8M	16.364M	19.47M	16.422M
5580MHz	Pass	Inf	19.69M	16.43M	19.8M	16.461M
5700MHz	Pass	Inf	20.295M	16.368M	19.525M	16.382M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.255M	13.227M	14.775M	13.137M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	3.604M	3.24M	3.558M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	Inf	20.68M	18.929M	20.46M	18.937M
5580MHz	Pass	Inf	20.68M	18.978M	20.515M	18.882M

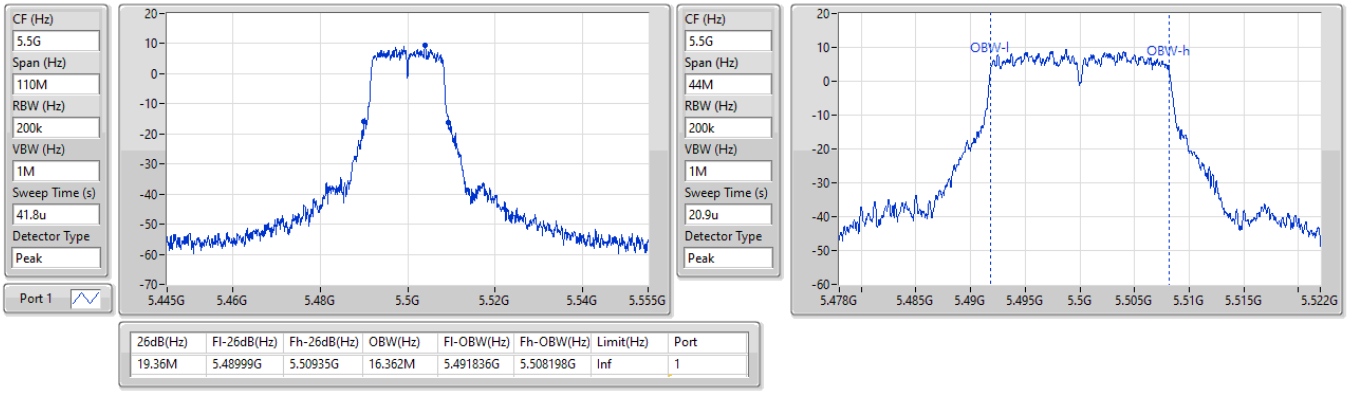
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5700MHz	Pass	Inf	20.295M	18.955M	20.185M	18.904M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.375M	14.366M	15.075M	14.454M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.562M	4.52M	4.612M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	Inf	39.6M	37.717M	39.38M	37.917M
5550MHz	Pass	Inf	39.27M	37.684M	39.16M	37.744M
5670MHz	Pass	Inf	39.71M	37.814M	39.49M	37.845M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.14M	33.757M	35.315M	33.685M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	4.109M	4.06M	4.086M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	Inf	80.96M	77.295M	80.08M	76.965M
5610MHz	Pass	Inf	80.08M	76.872M	80.52M	76.789M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	72.848M	75.3M	72.644M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.12M	4.18M	4.02M	23.79M

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

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5500MHz

20/10/2023

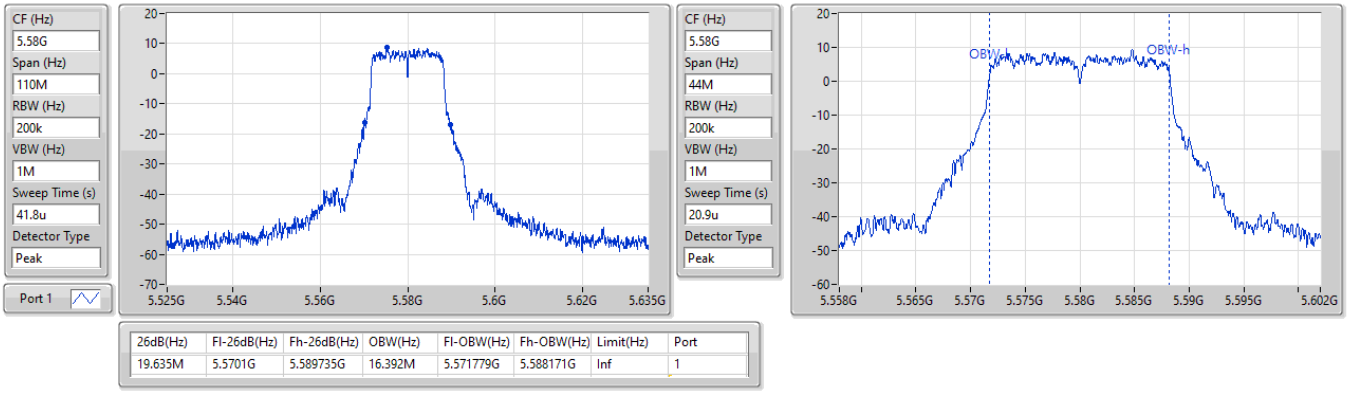


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.36M	5.48999G	5.50935G	16.362M	5.491836G	5.508198G	Inf	1

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5580MHz

20/10/2023

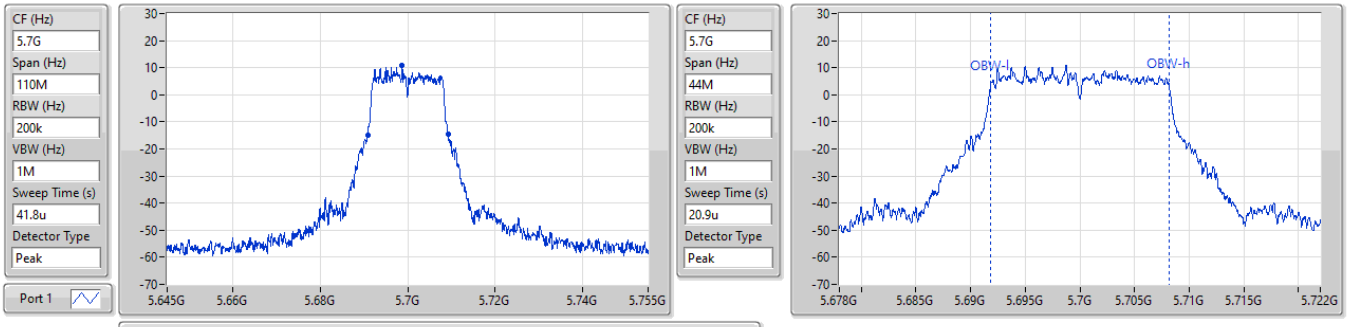


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.635M	5.5701G	5.589735G	16.392M	5.571779G	5.588171G	Inf	1

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5700MHz

20/10/2023

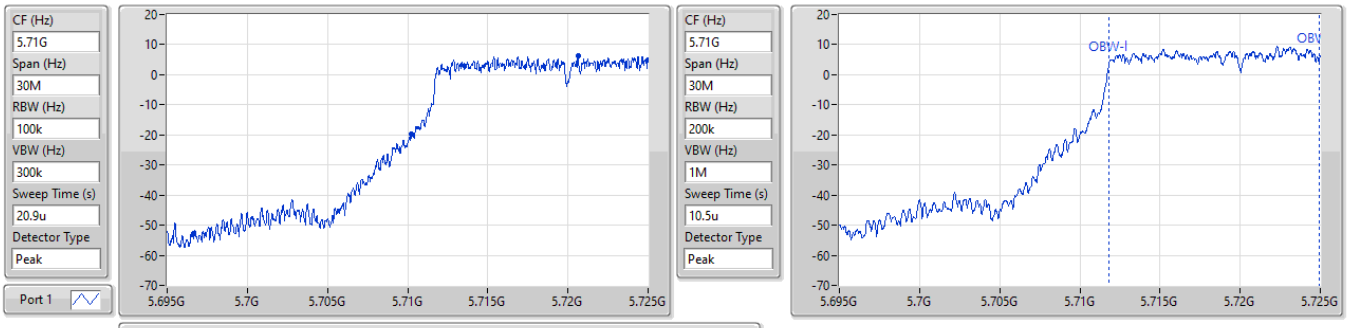


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.37M	5.69087G	5.70924G	16.352M	5.691817G	5.708168G	Inf	1

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5720MHz Straddle 5.47-5.725GHz

20/10/2023

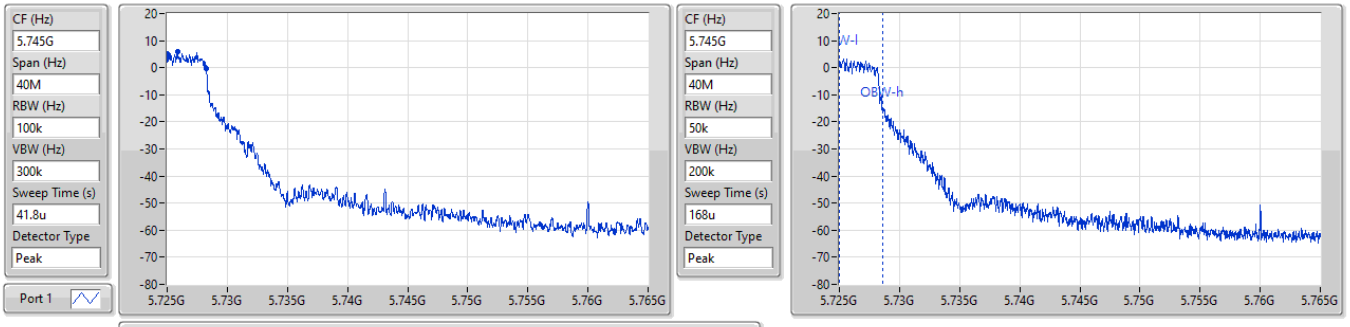


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.76M	5.71024G	5.725G	13.144M	5.711784G	5.724928G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5720MHz Straddle 5.725-5.85GHz

20/10/2023

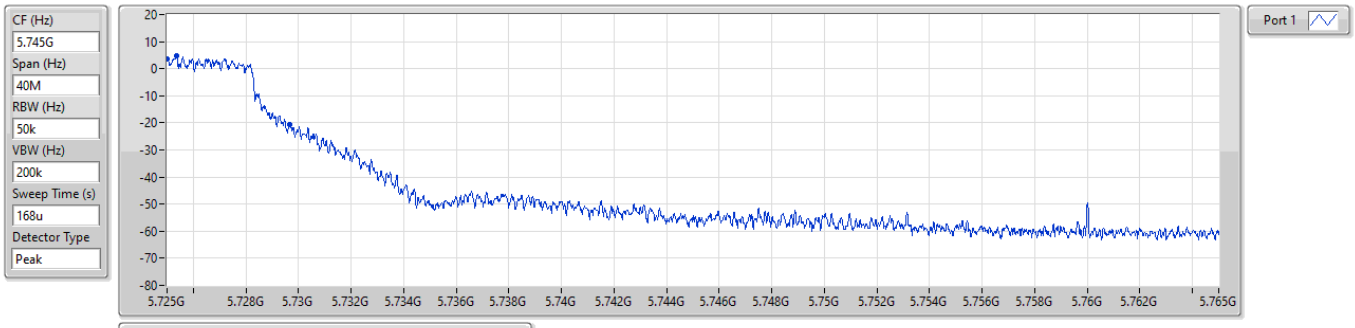


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.26M	5.725G	5.72826G	3.572M	5.725011G	5.728584G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5720MHz Straddle 5.725-5.85GHz

20/10/2023

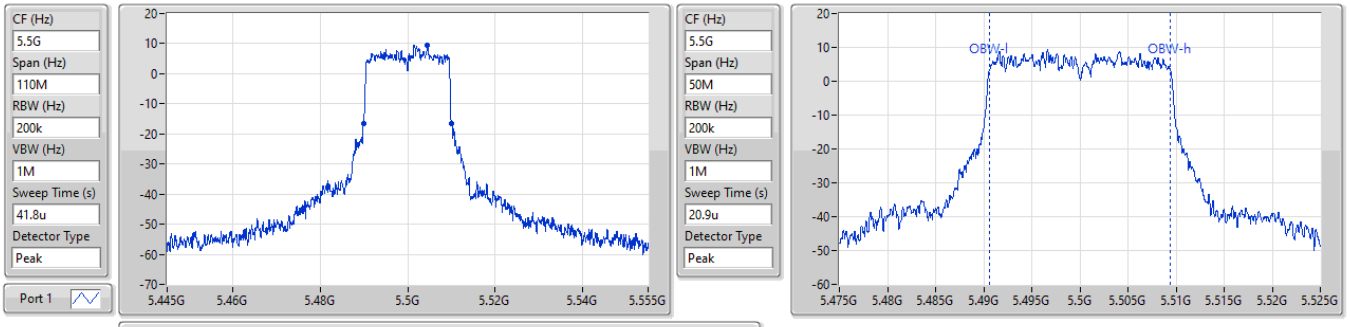


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.68M	5.725G	5.72968G	Inf	1

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5500MHz

21/10/2023

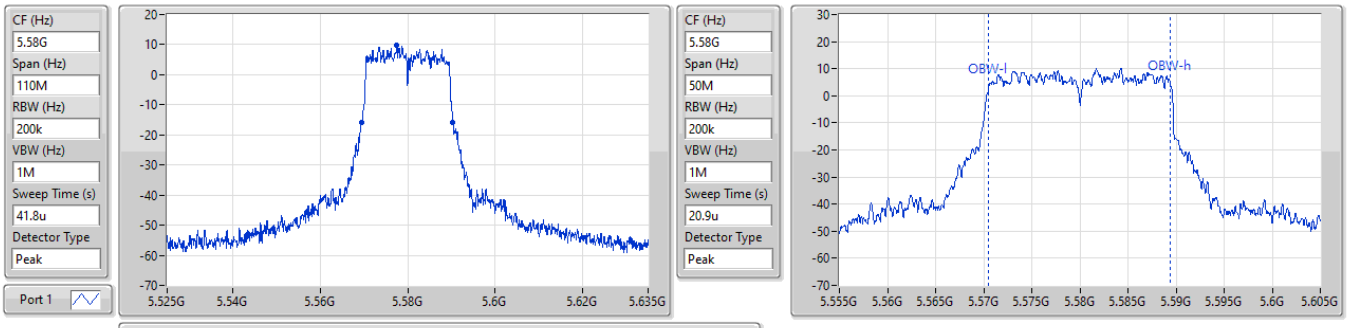


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.185M	5.489935G	5.51012G	18.864M	5.490575G	5.509439G	Inf	1

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5580MHz

21/10/2023

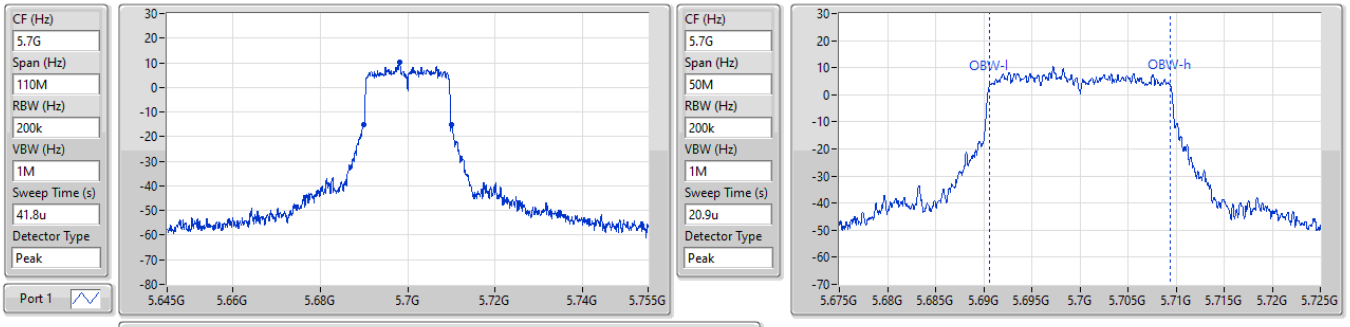


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.955M	5.56944G	5.590395G	18.932M	5.570508G	5.58944G	Inf	1

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5700MHz

21/10/2023

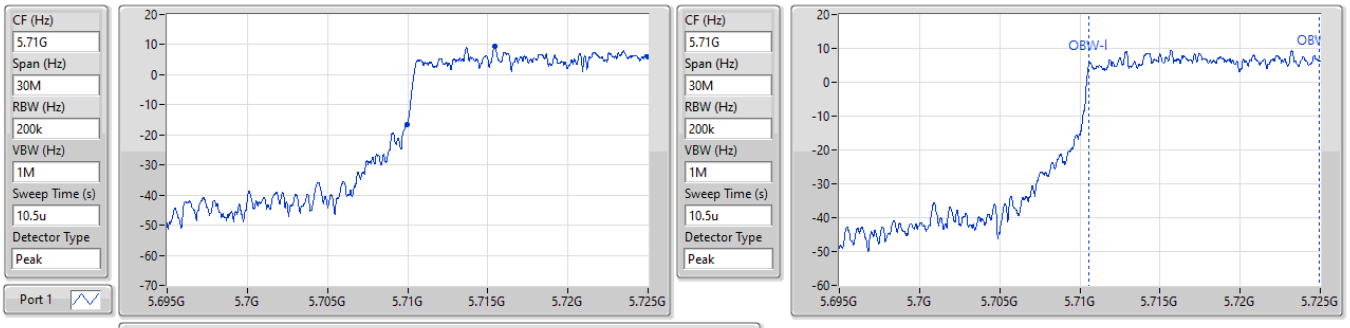


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.13M	5.689935G	5.710065G	18.873M	5.69057G	5.709443G	Inf	1

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5720MHz Straddle 5.47-5.725GHz

21/10/2023

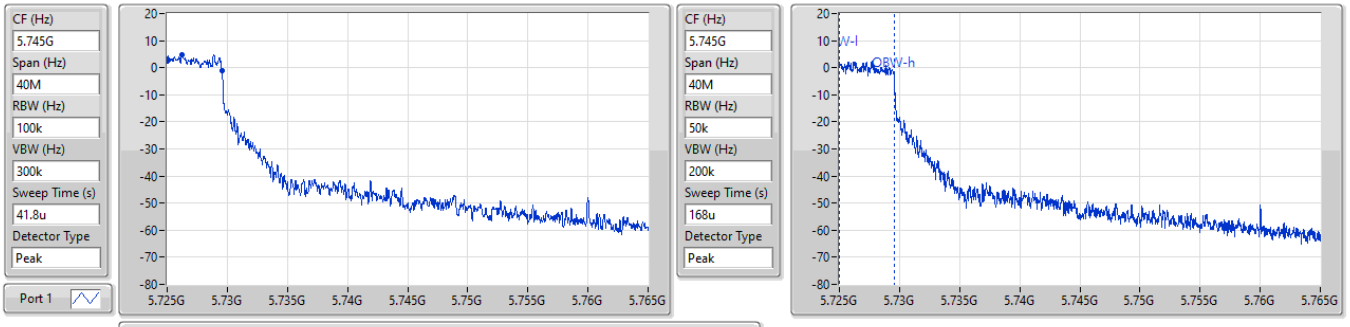


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.015M	5.709985G	5.725G	14.393M	5.710534G	5.724926G	Inf	1

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5720MHz Straddle 5.725-5.85GHz

21/10/2023

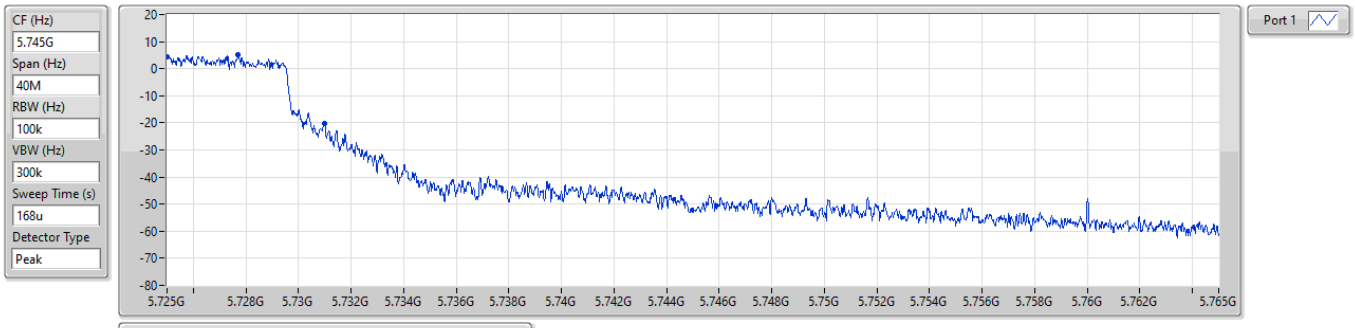


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.54M	5.725G	5.72954G	4.575M	5.725014G	5.729589G	500k	1

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5720MHz Straddle 5.725-5.85GHz

21/10/2023

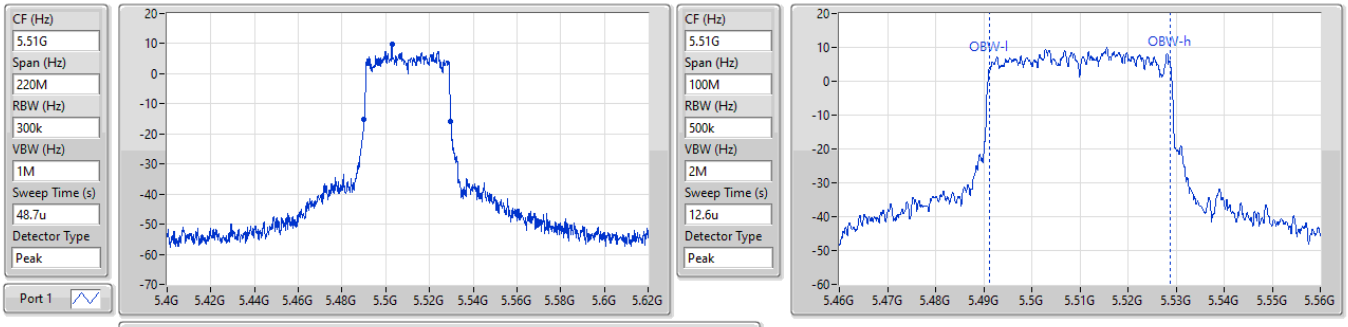


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
6M	5.725G	5.731G	Inf	1

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5510MHz

21/10/2023

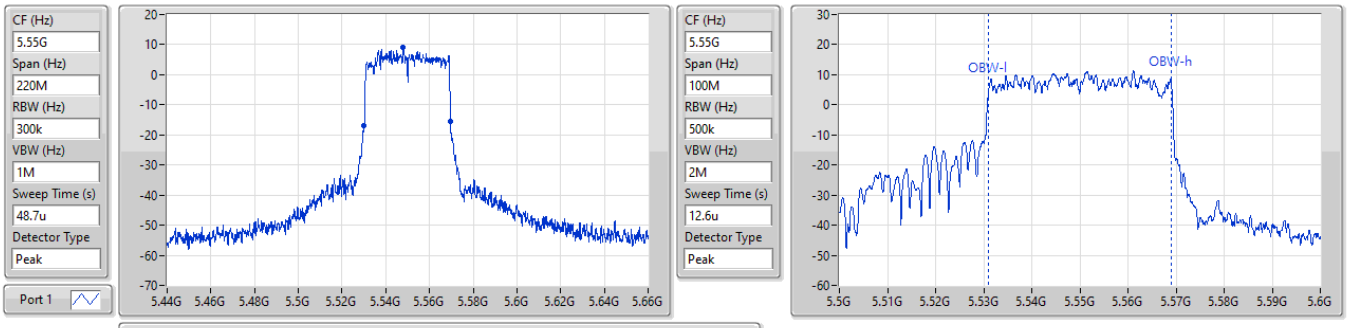


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.71M	5.49009G	5.5298G	37.585M	5.491222G	5.528807G	Inf	1

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5550MHz

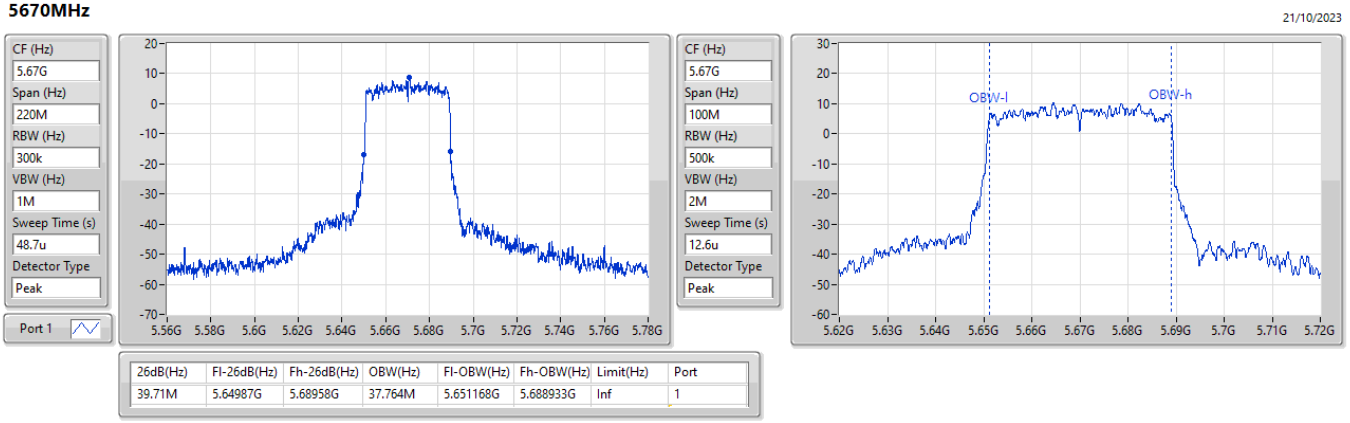
21/10/2023



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.38M	5.53009G	5.56947G	37.912M	5.531074G	5.568986G	Inf	1

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

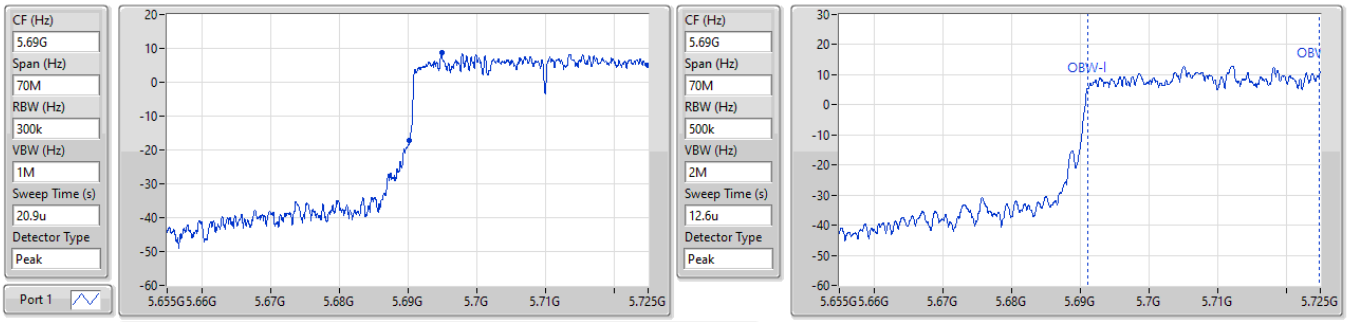
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.71M	5.64987G	5.68958G	37.764M	5.651168G	5.688933G	Inf	1

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5710MHz Straddle 5.47-5.725GHz

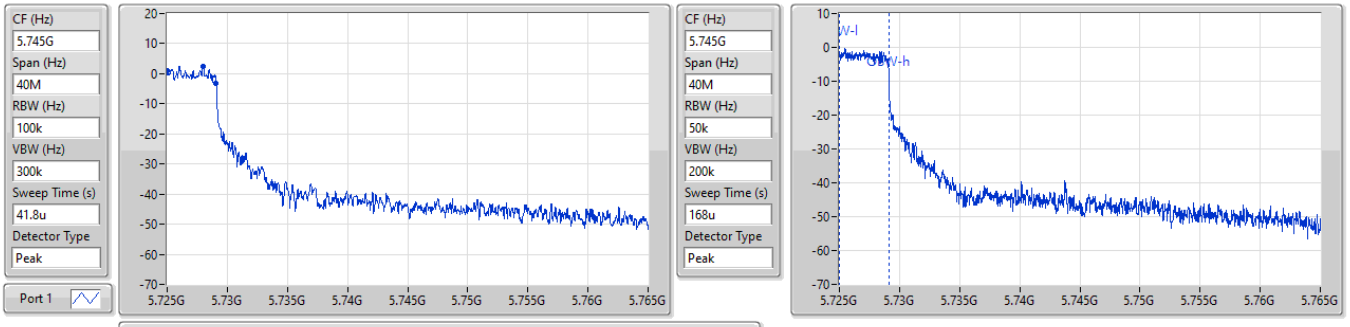


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.72M	5.69028G	5.725G	33.729M	5.691165G	5.724894G	Inf	1

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5710MHz Straddle 5.725-5.85GHz

21/10/2023

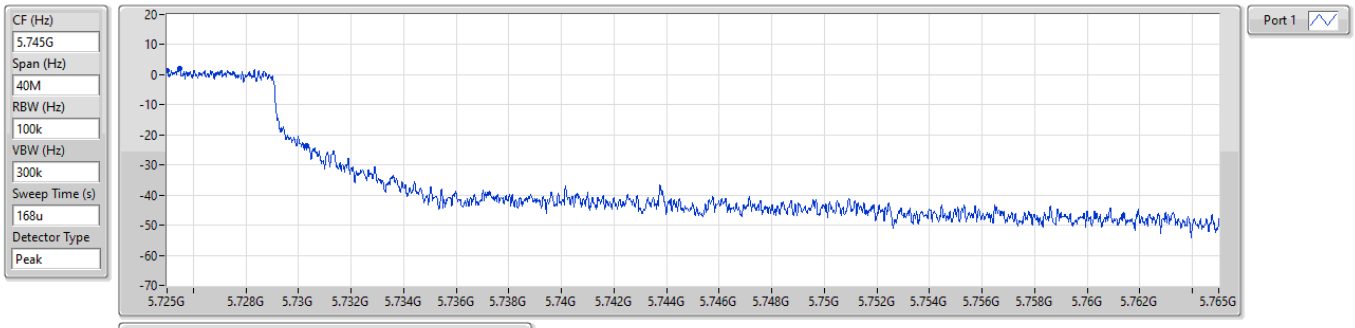


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.06M	5.725G	5.72906G	4.113M	5.725016G	5.729128G	500k	1

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5710MHz Straddle 5.725-5.85GHz

21/10/2023

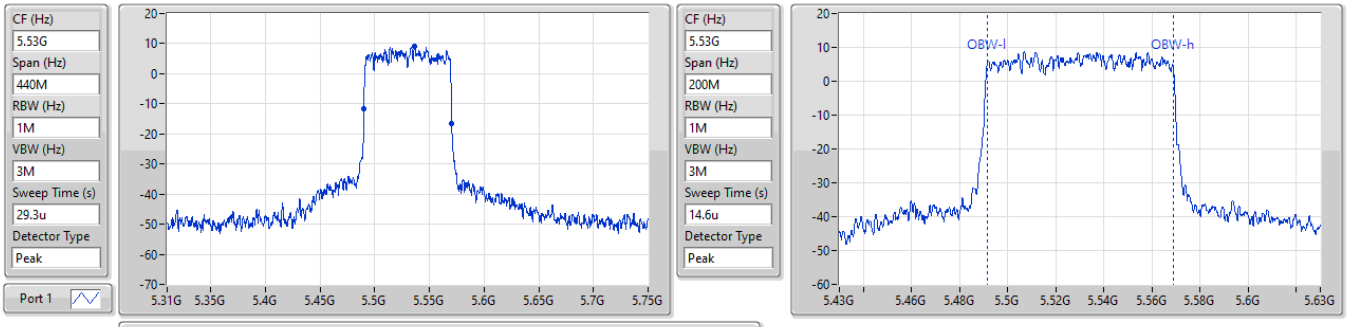


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.3M	5.725G	5.7303G	Inf	1

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5530MHz

21/10/2023

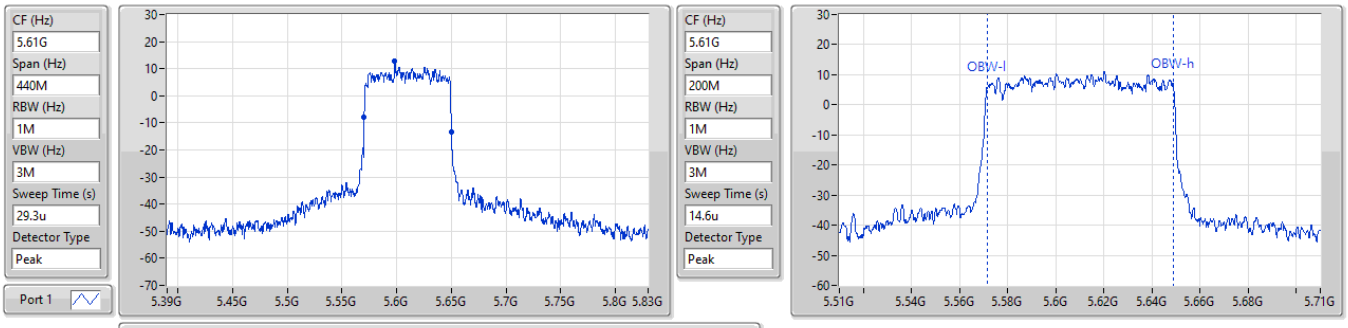


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.3M	5.48996G	5.57026G	77.238M	5.491451G	5.568689G	Inf	1

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5610MHz

21/10/2023

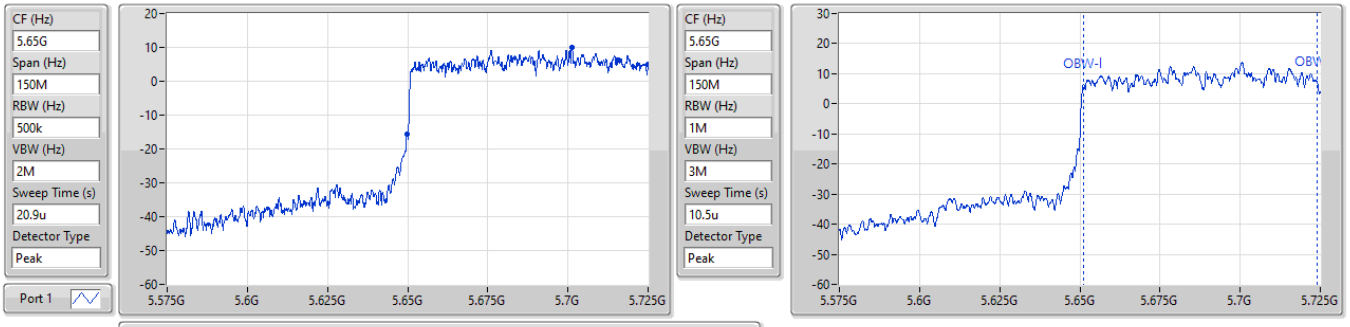


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
79.86M	5.57018G	5.65004G	77.421M	5.571402G	5.648823G	Inf	1

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5690MHz Straddle 5.47-5.725GHz

21/10/2023

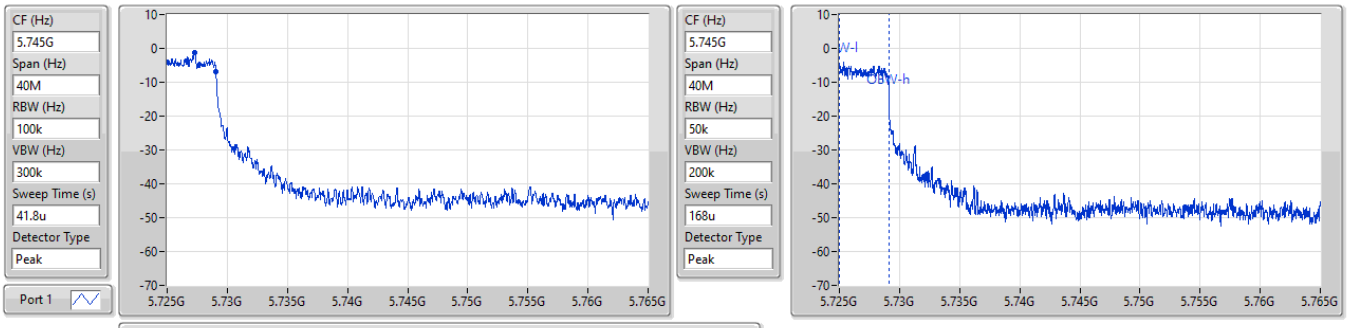


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.3M	5.6497G	5.725G	72.829M	5.651236G	5.724064G	Inf	1

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5690MHz Straddle 5.725-5.85GHz

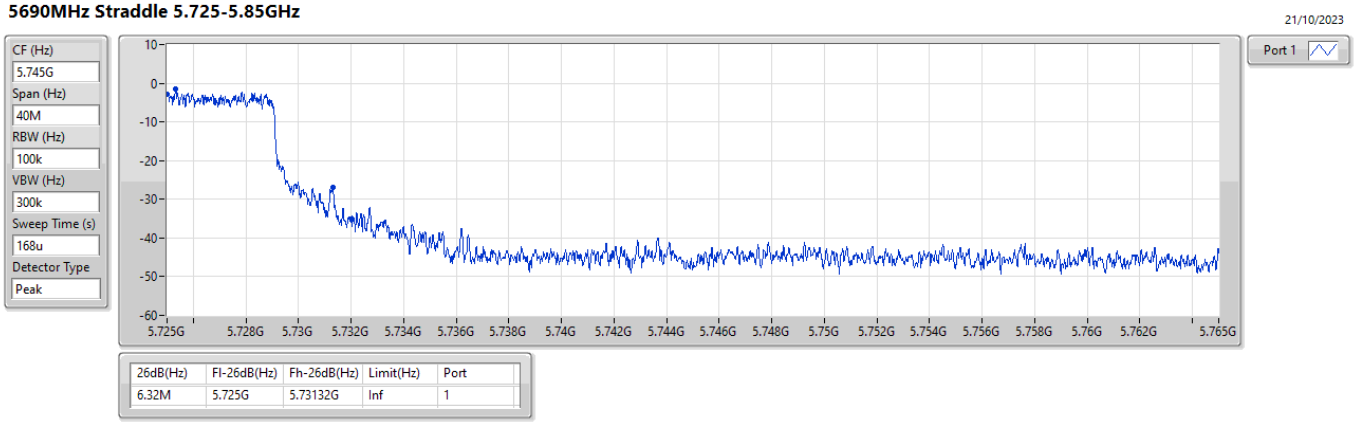
21/10/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.06M	5.725G	5.72906G	4.114M	5.725016G	5.729131G	500k	1

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

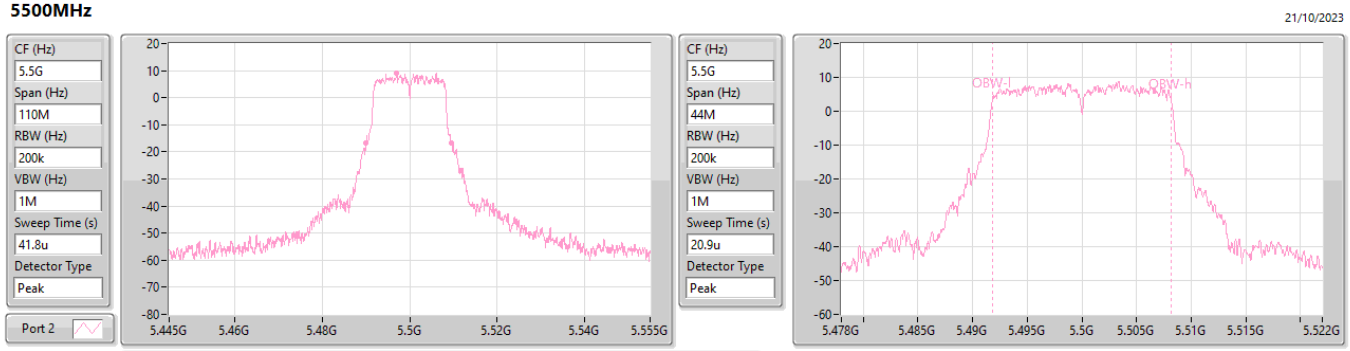
5690MHz Straddle 5.725-5.85GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
6.32M	5.725G	5.73132G	Inf	1

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5500MHz

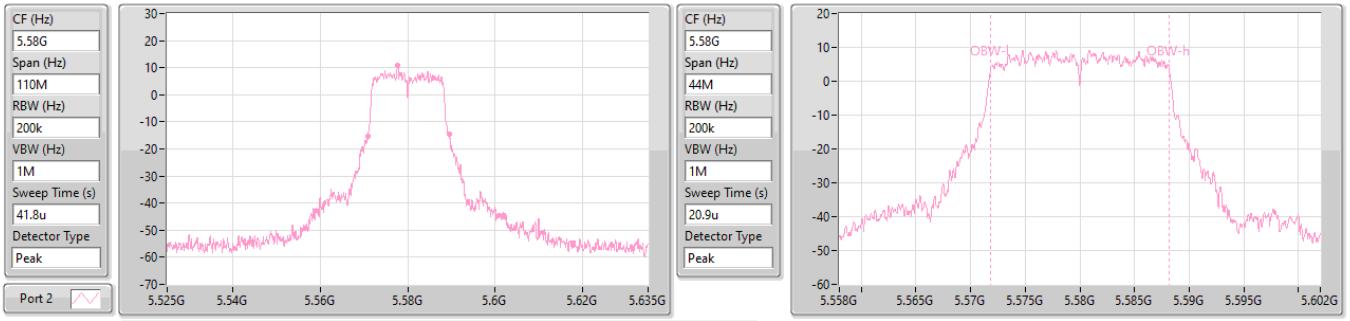


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.58M	5.490045G	5.509625G	16.432M	5.491787G	5.508219G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5580MHz

21/10/2023

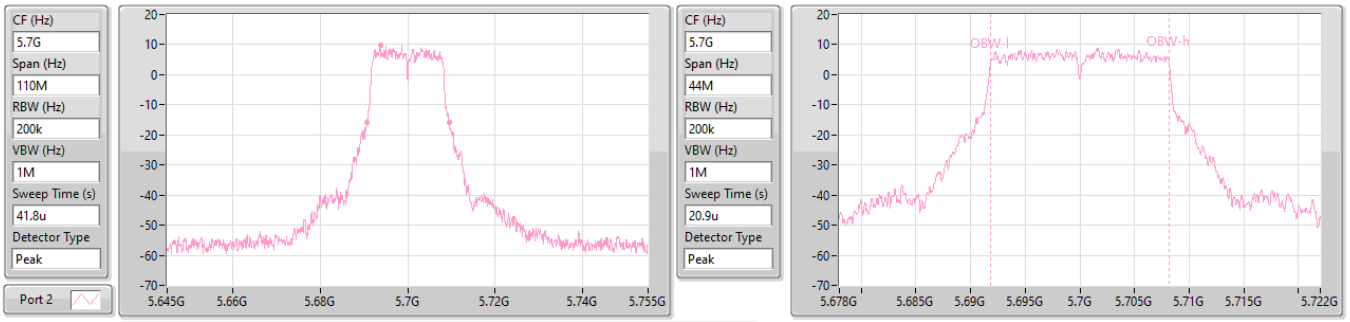


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.59M	5.57098G	5.58957G	16.409M	5.571791G	5.5882G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5700MHz

21/10/2023

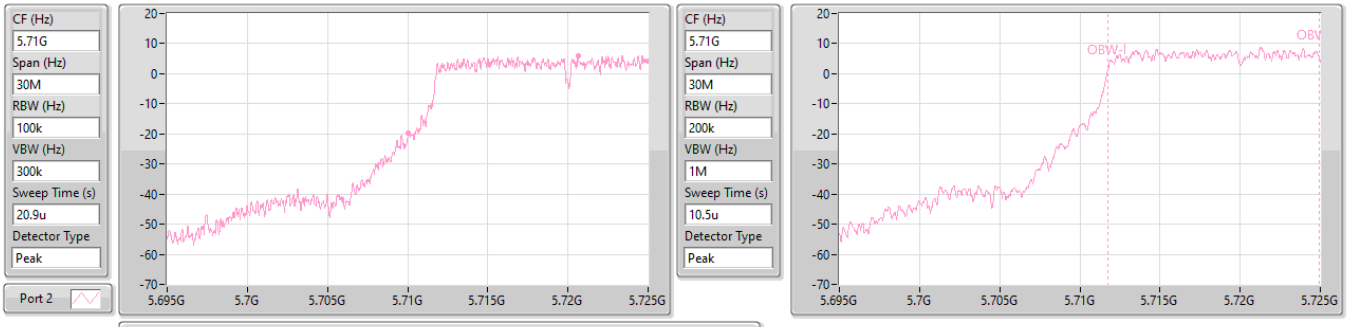


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.81M	5.69065G	5.70946G	16.35M	5.691812G	5.708162G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5720MHz Straddle 5.47-5.725GHz

21/10/2023

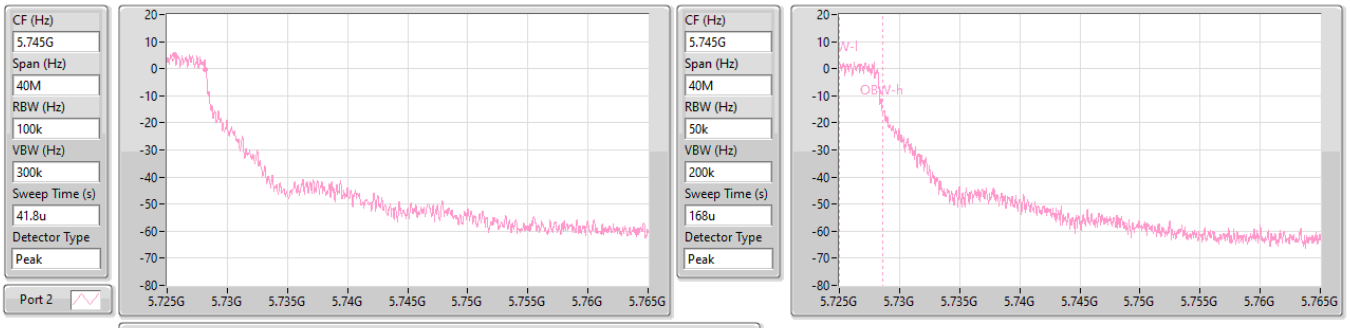


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.955M	5.710045G	5.725G	13.178M	5.711732G	5.724909G	Inf	2

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5720MHz Straddle 5.725-5.85GHz

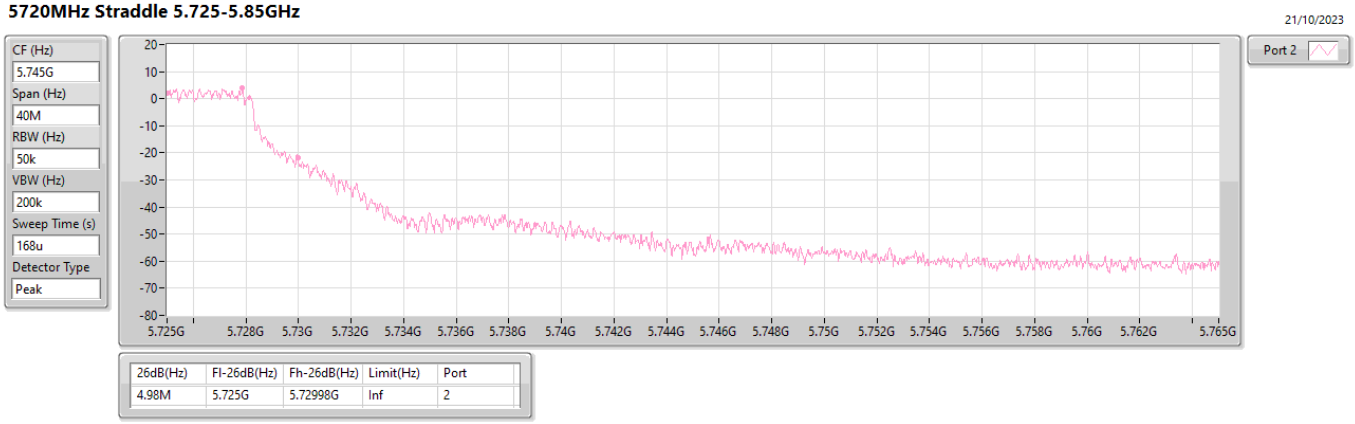
21/10/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.2M	5.725G	5.7282G	3.547M	5.725016G	5.728562G	500k	2

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

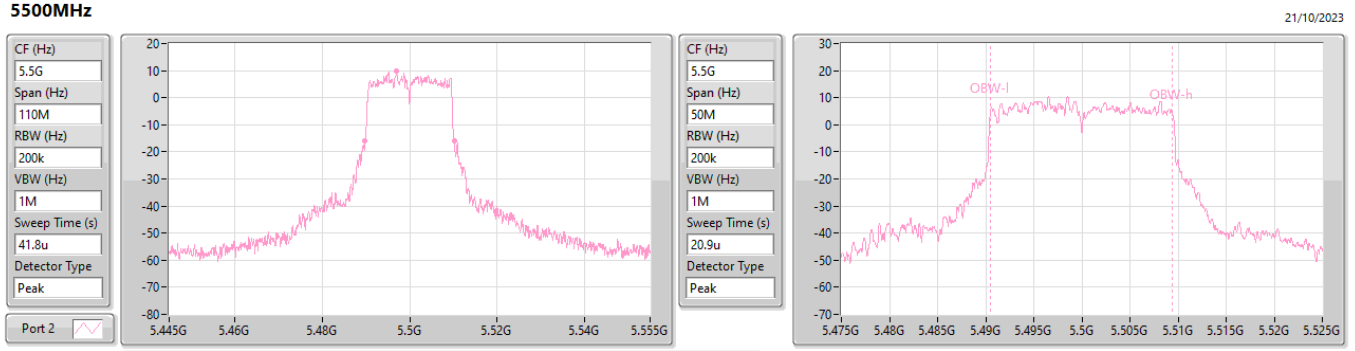
5720MHz Straddle 5.725-5.85GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.98M	5.725G	5.72998G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5500MHz

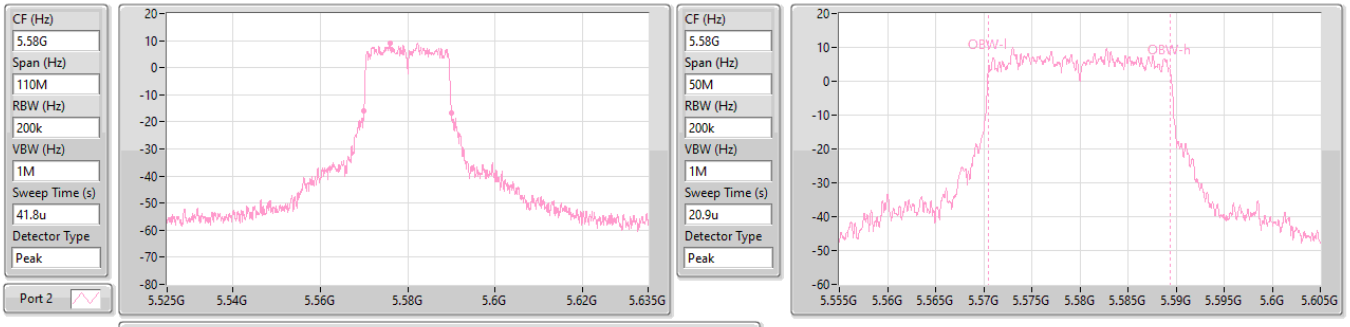


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.46M	5.48977G	5.51023G	18.911M	5.490527G	5.509437G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5580MHz

21/10/2023

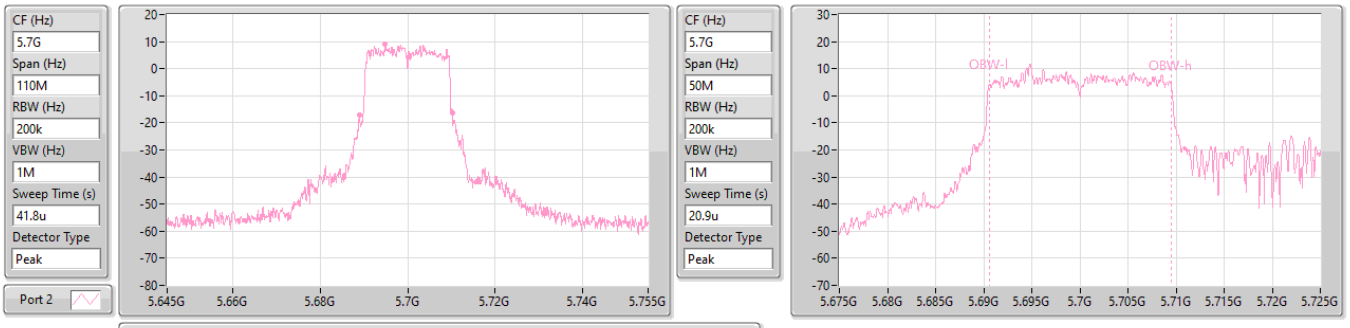


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.075M	5.569935G	5.59001G	18.84M	5.570537G	5.589377G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5700MHz

21/10/2023

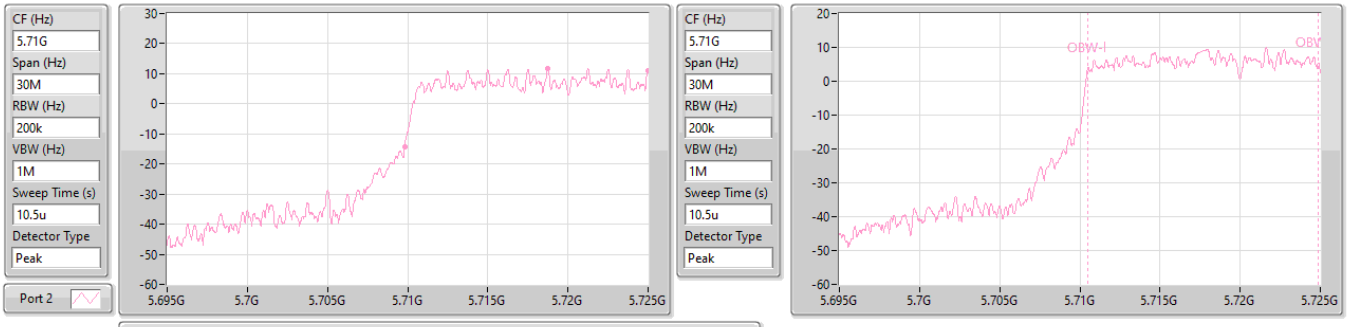


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.285M	5.689G	5.710285G	18.959M	5.690553G	5.709512G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5720MHz Straddle 5.47-5.725GHz

21/10/2023

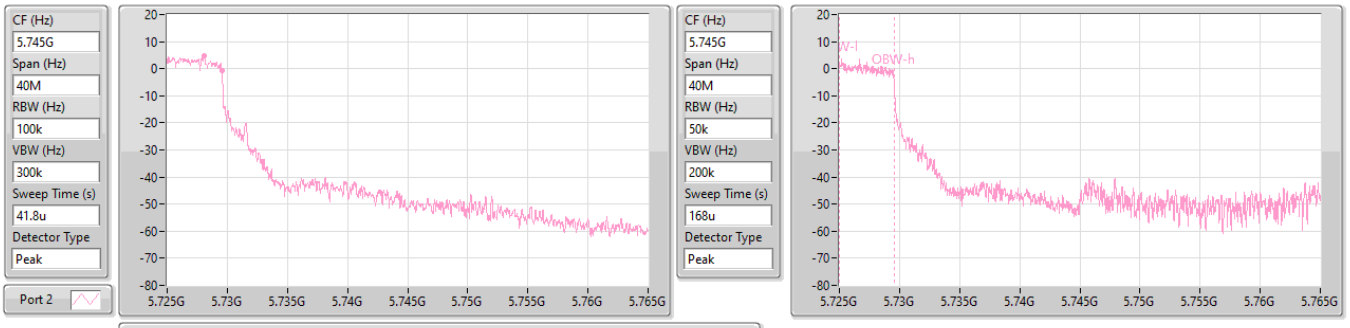


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.18M	5.70982G	5.725G	14.401M	5.710482G	5.724883G	Inf	2

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

5720MHz Straddle 5.725-5.85GHz

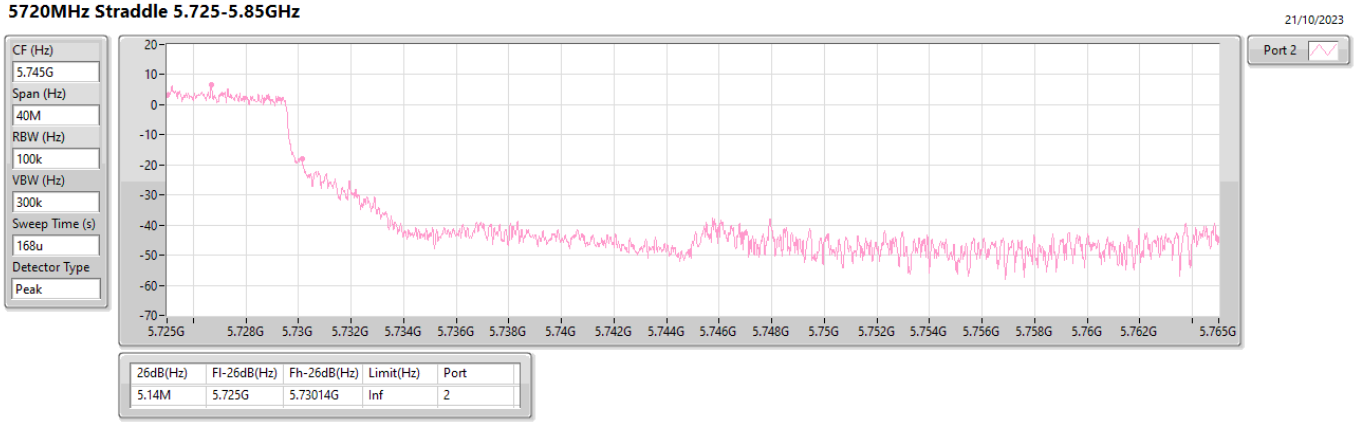
21/10/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.54M	5.725G	5.72954G	4.547M	5.725022G	5.729569G	500k	2

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

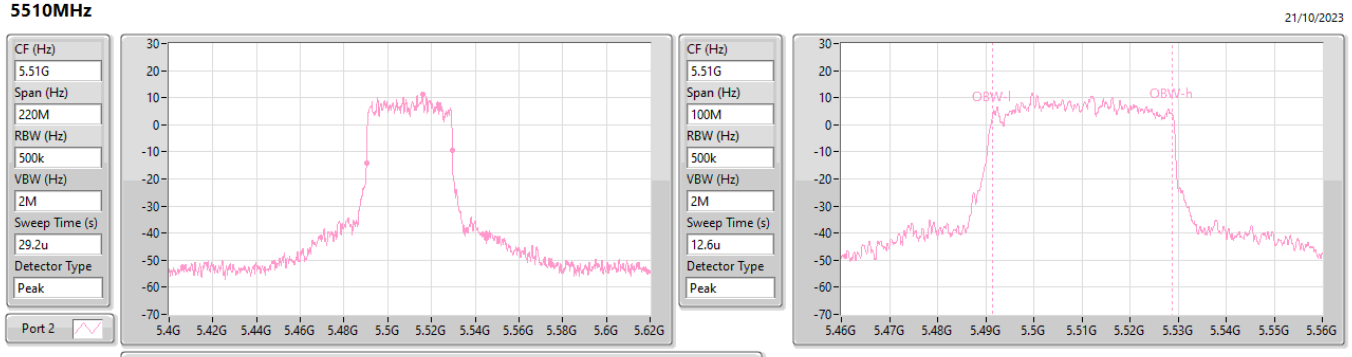
5720MHz Straddle 5.725-5.85GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.14M	5.725G	5.73014G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5510MHz

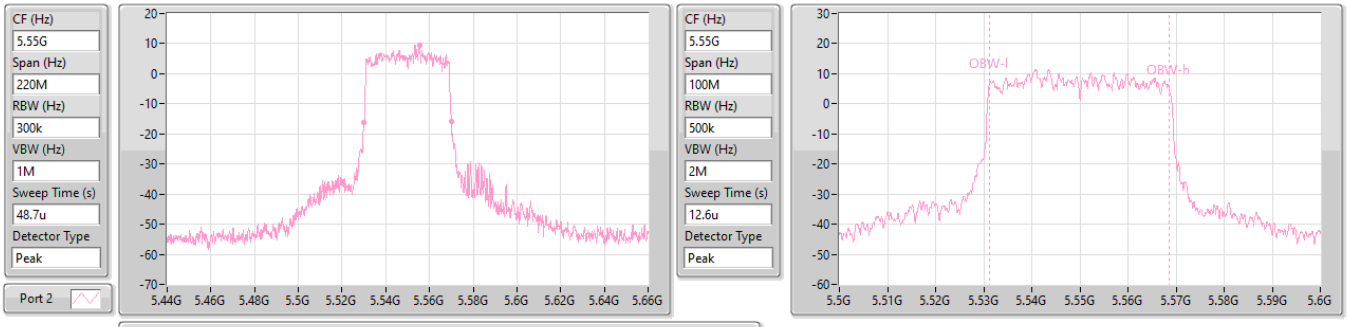


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.38M	5.4902G	5.52958G	37.403M	5.49141G	5.528813G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5550MHz

21/10/2023

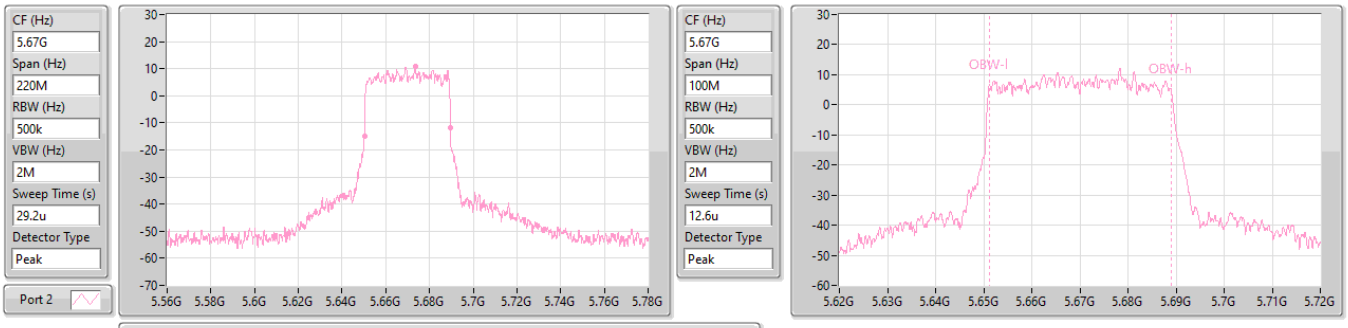


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.93M	5.53009G	5.57002G	37.5M	5.53115G	5.56865G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5670MHz

21/10/2023

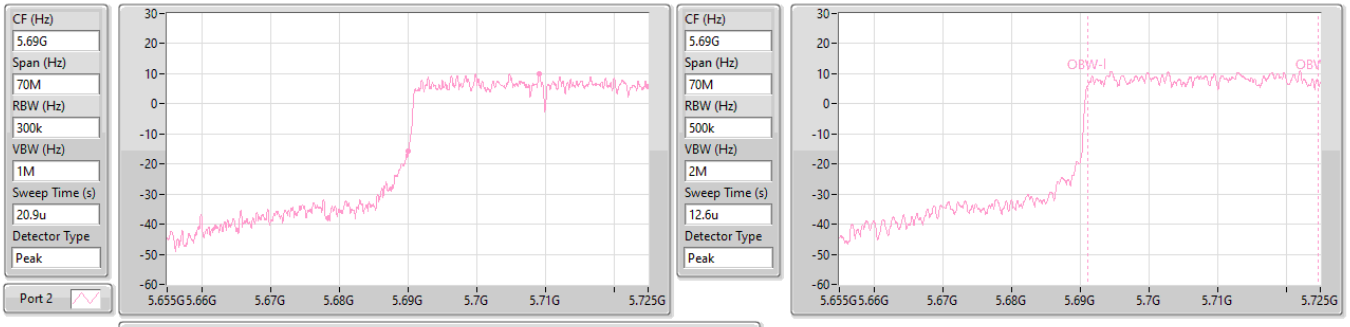


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.38M	5.6502G	5.68958G	37.885M	5.651118G	5.689002G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5710MHz Straddle 5.47-5.725GHz

21/10/2023

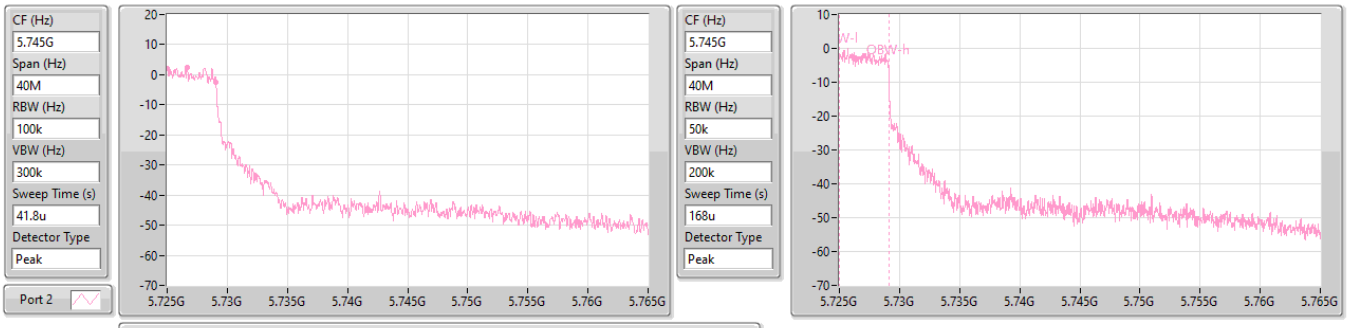


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.93M	5.69007G	5.725G	33.65M	5.691091G	5.724741G	Inf	2

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

5710MHz Straddle 5.725-5.85GHz

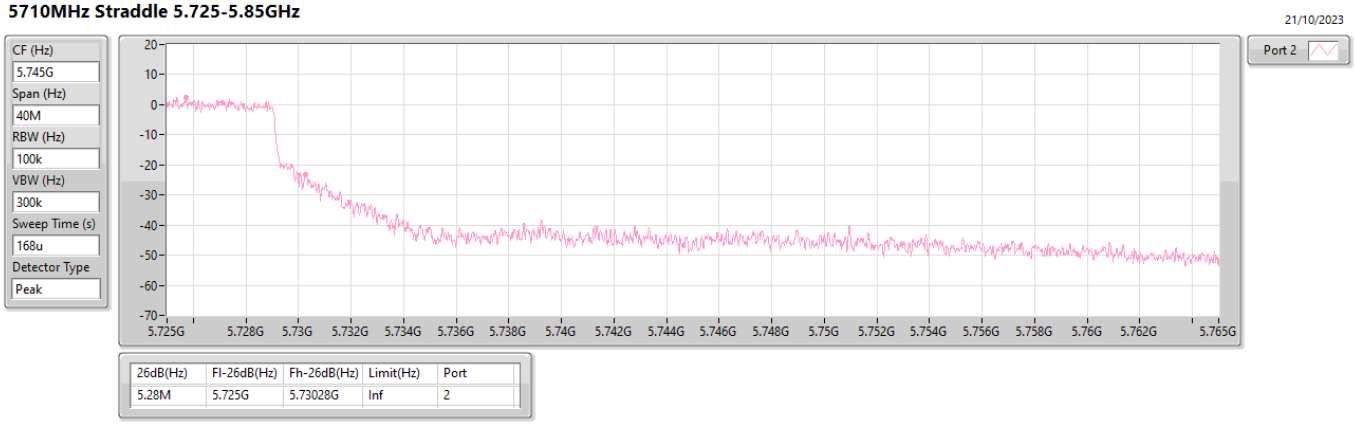
21/10/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.06M	5.725G	5.72906G	4.096M	5.725022G	5.729118G	500k	2

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **EBW**

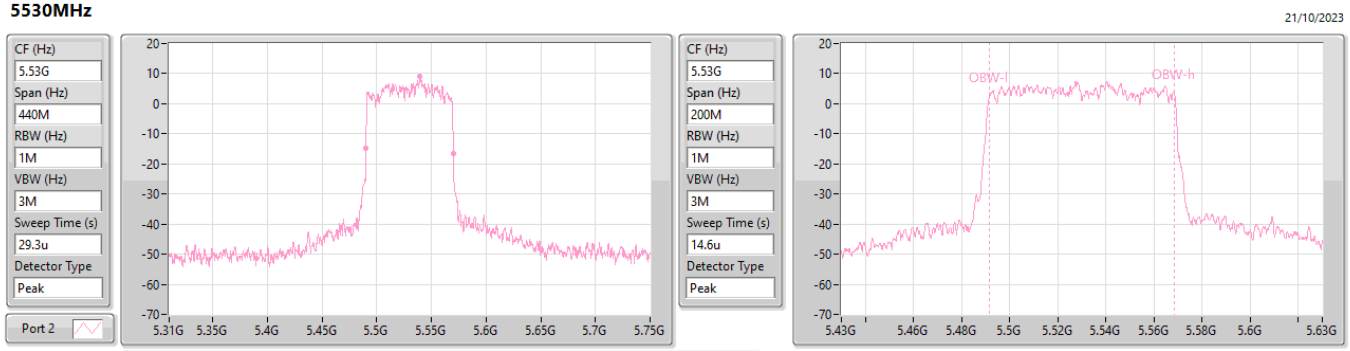
5710MHz Straddle 5.725-5.85GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.28M	5.725G	5.73028G	Inf	2

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

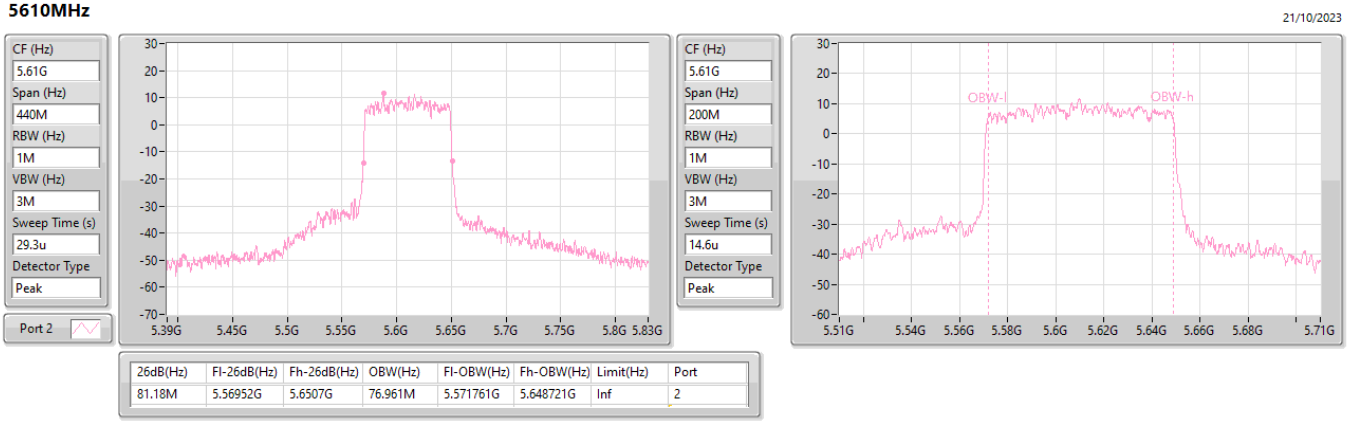
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.08M	5.48996G	5.57004G	77.115M	5.491421G	5.568536G	Inf	2

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

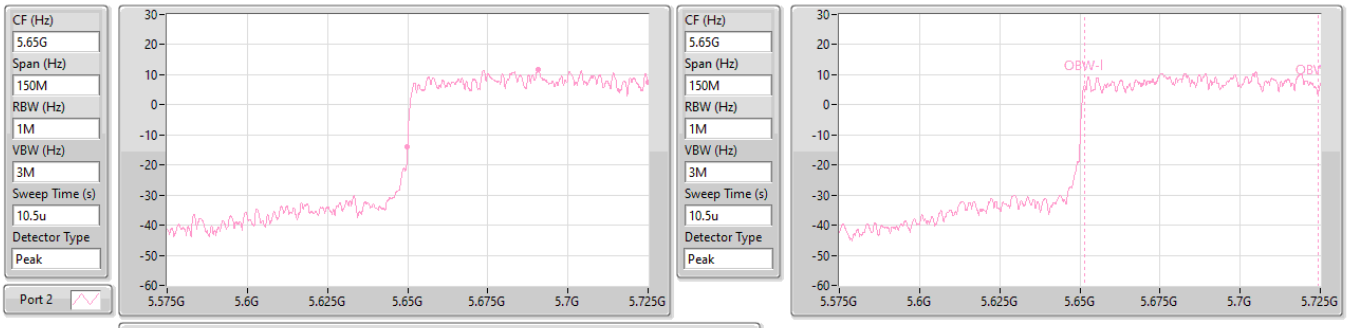
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.18M	5.56952G	5.6507G	76.961M	5.571761G	5.648721G	Inf	2

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5690MHz Straddle 5.47-5.725GHz

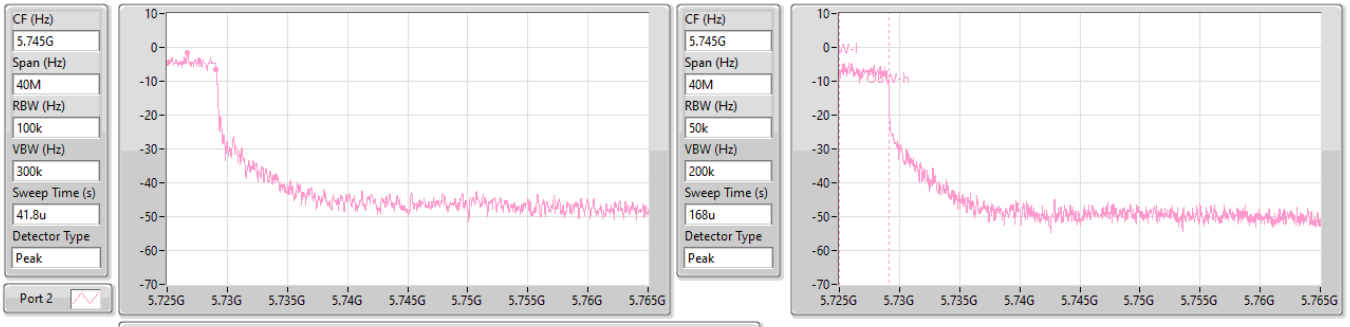


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.075M	5.649925G	5.725G	73.123M	5.651332G	5.724455G	Inf	2

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5690MHz Straddle 5.725-5.85GHz

21/10/2023

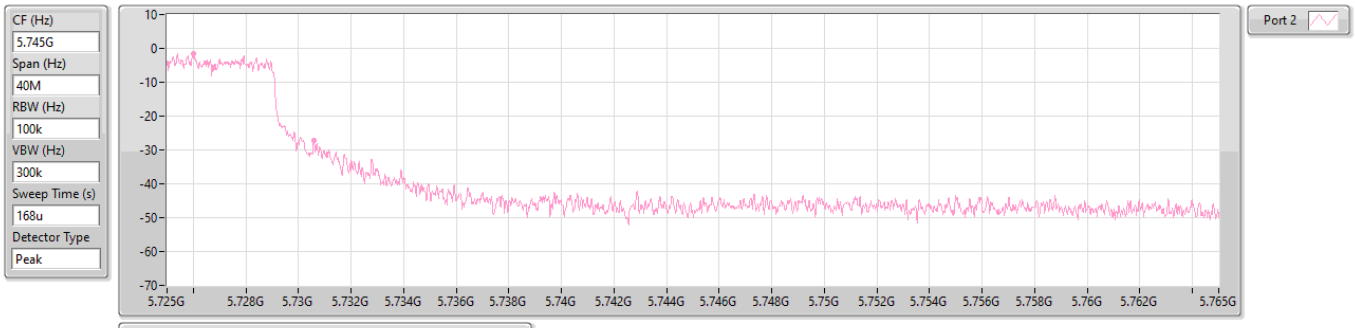


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.08M	5.725G	5.72908G	4.111M	5.725019G	5.72913G	500k	2

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **EBW**

5690MHz Straddle 5.725-5.85GHz

21/10/2023

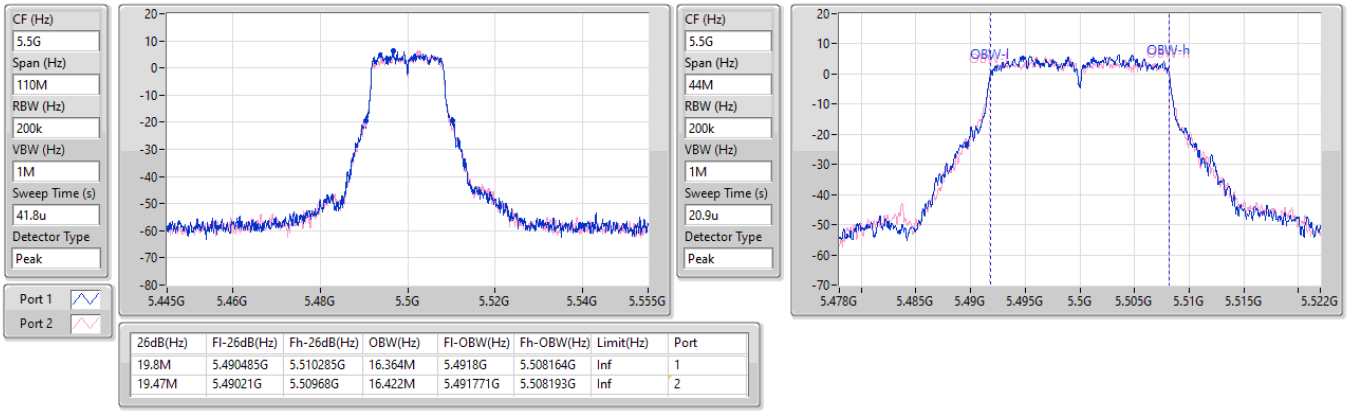


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.58M	5.725G	5.73058G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5500MHz

23/10/2023

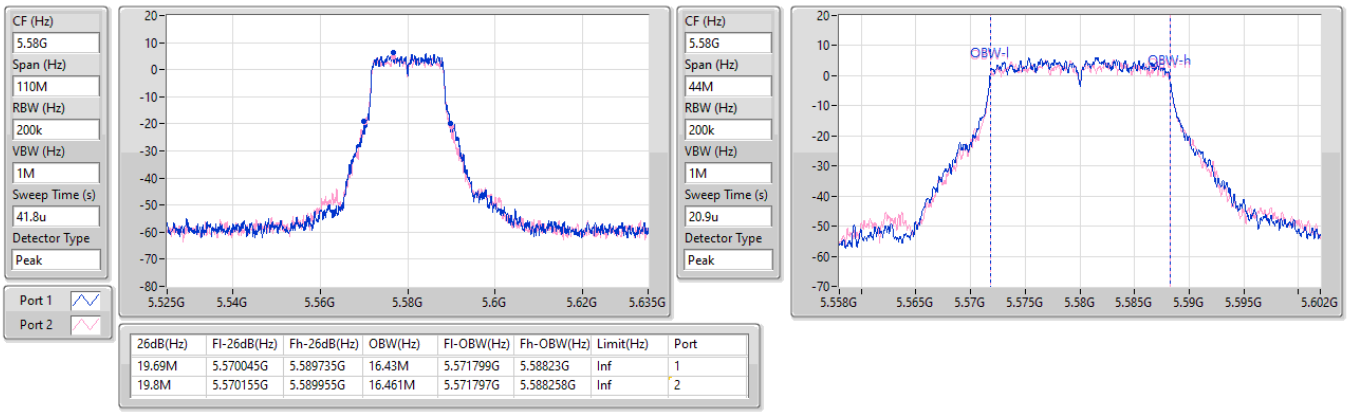


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.490485G	5.510285G	16.364M	5.4918G	5.508164G	Inf	1
19.47M	5.49021G	5.50968G	16.422M	5.491771G	5.508193G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5580MHz

23/10/2023

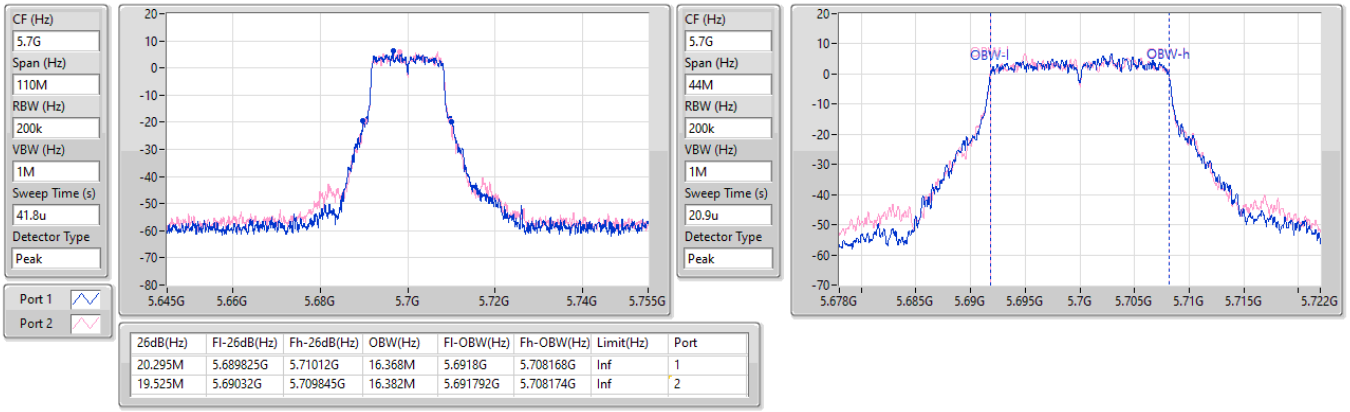


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.69M	5.570045G	5.589735G	16.43M	5.571799G	5.58823G	Inf	1
19.8M	5.570155G	5.589955G	16.461M	5.571797G	5.588258G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5700MHz

23/10/2023

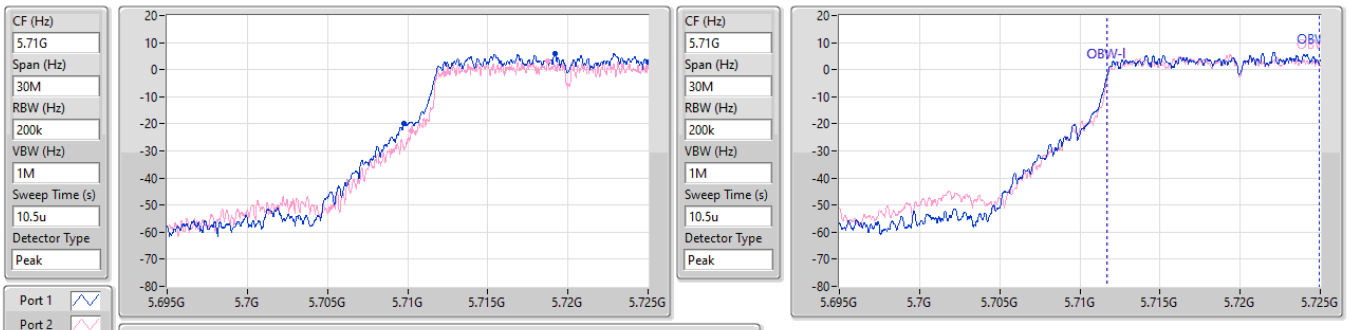


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.295M	5.689825G	5.71012G	16.368M	5.6918G	5.708168G	Inf	1
19.525M	5.69032G	5.709845G	16.382M	5.691792G	5.708174G	Inf	2

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5720MHz Straddle 5.47-5.725GHz

23/10/2023

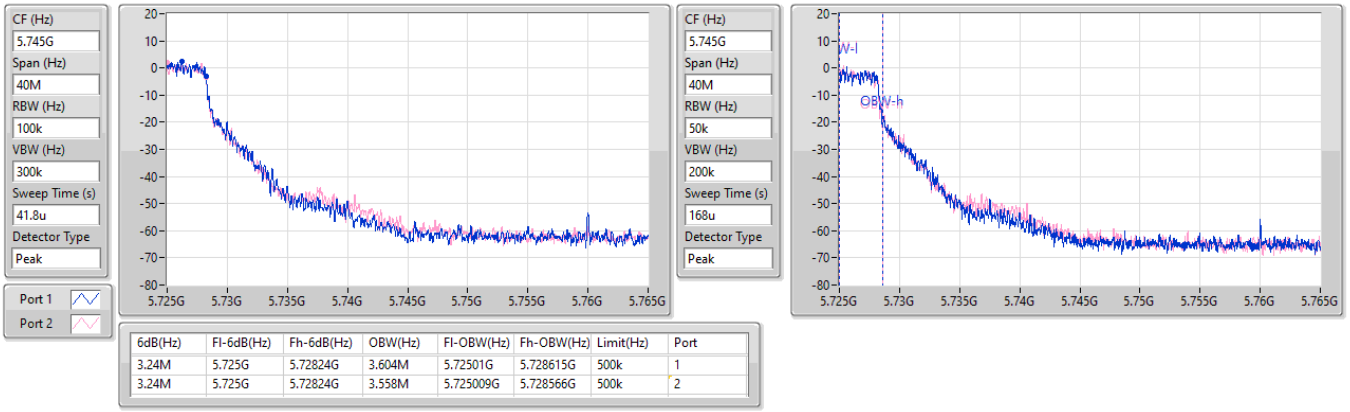


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.255M	5.709745G	5.725G	13.227M	5.711711G	5.724938G	Inf	1
14.775M	5.710225G	5.725G	13.137M	5.711774G	5.724911G	Inf	2

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5720MHz Straddle 5.725-5.85GHz

23/10/2023

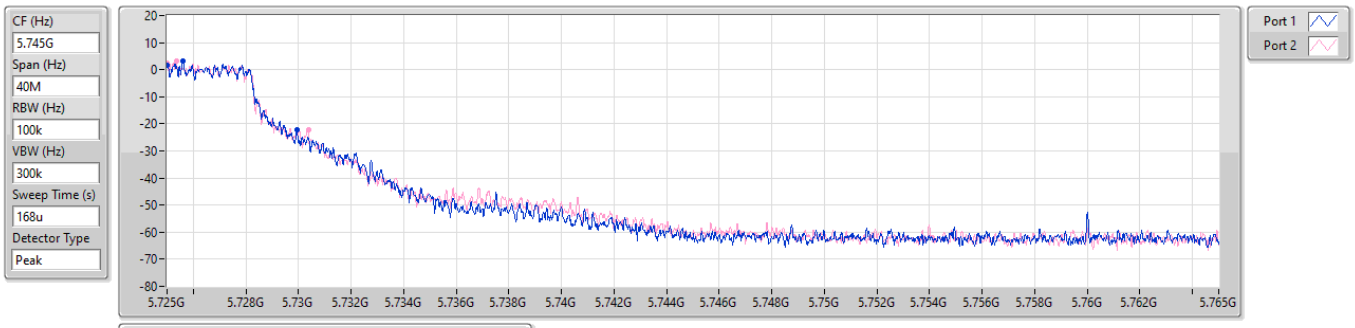


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.24M	5.725G	5.72824G	3.604M	5.72501G	5.728615G	500k	1
3.24M	5.725G	5.72824G	3.558M	5.725009G	5.728566G	500k	2

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX **EBW**

5720MHz Straddle 5.725-5.85GHz

23/10/2023

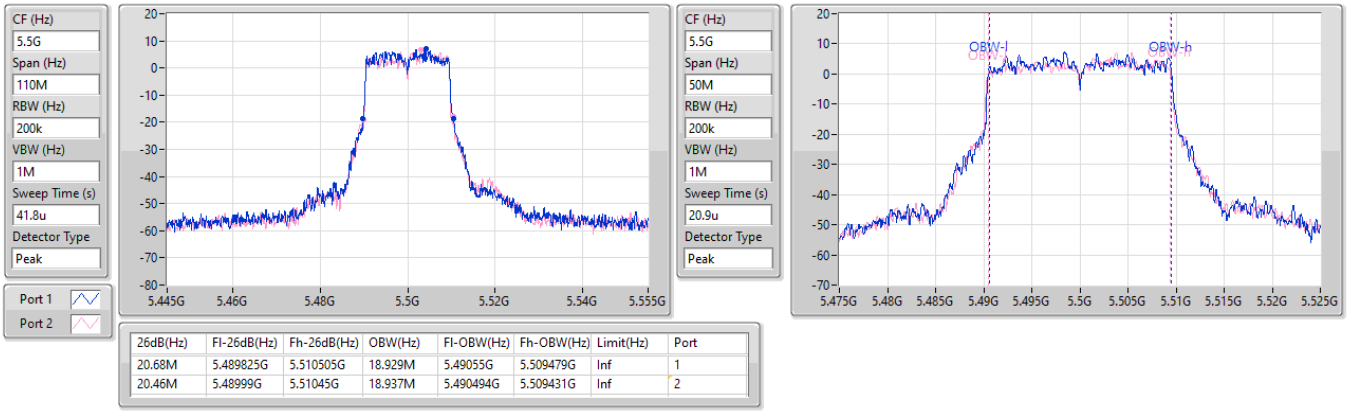


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.94M	5.725G	5.72994G	Inf	1
5.38M	5.725G	5.73038G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

5500MHz

23/10/2023

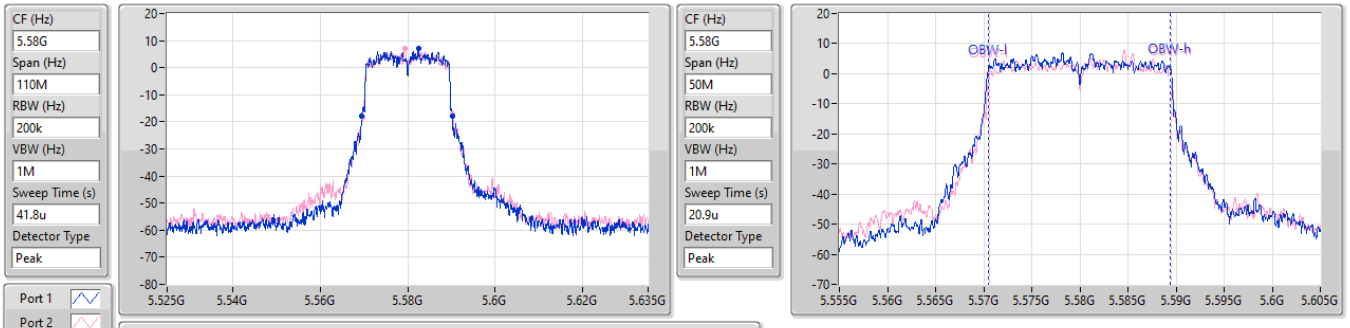


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.68M	5.489825G	5.510505G	18.929M	5.49055G	5.509479G	Inf	1
20.46M	5.48999G	5.51045G	18.937M	5.490494G	5.509431G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

5580MHz

23/10/2023

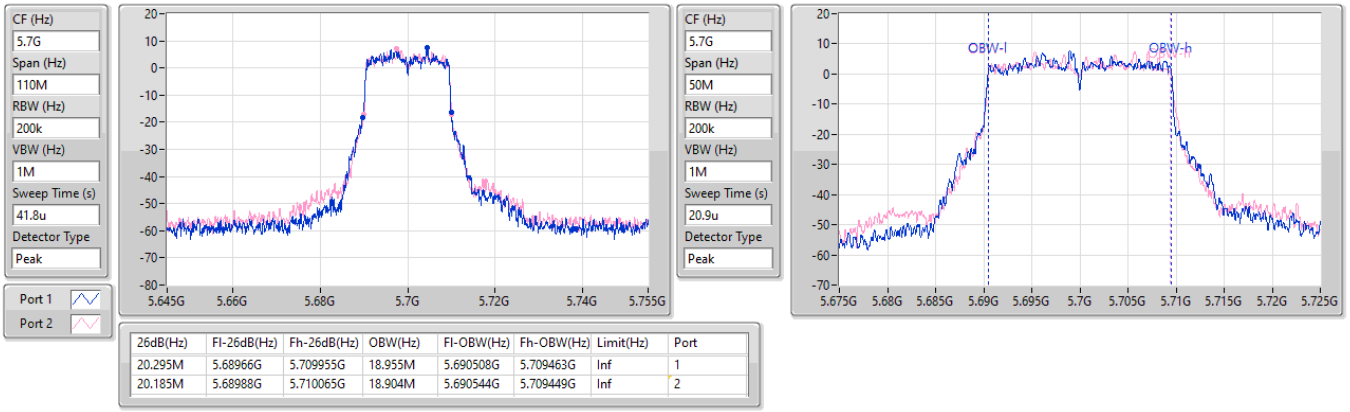


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.68M	5.569495G	5.590175G	18.978M	5.570467G	5.589445G	Inf	1
20.515M	5.569715G	5.59023G	18.882M	5.570592G	5.589474G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

5700MHz

23/10/2023

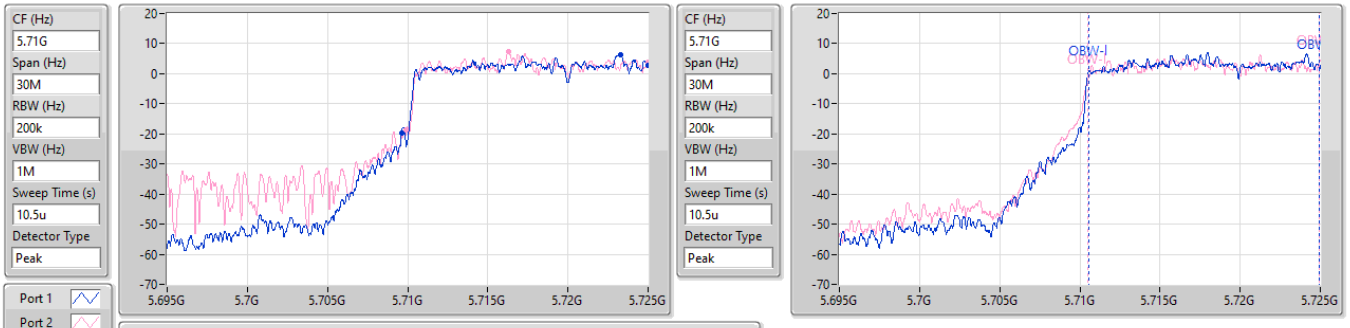


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.295M	5.68966G	5.709955G	18.955M	5.690508G	5.709463G	Inf	1
20.185M	5.68988G	5.710065G	18.904M	5.690544G	5.709449G	Inf	2

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

5720MHz Straddle 5.47-5.725GHz

23/10/2023

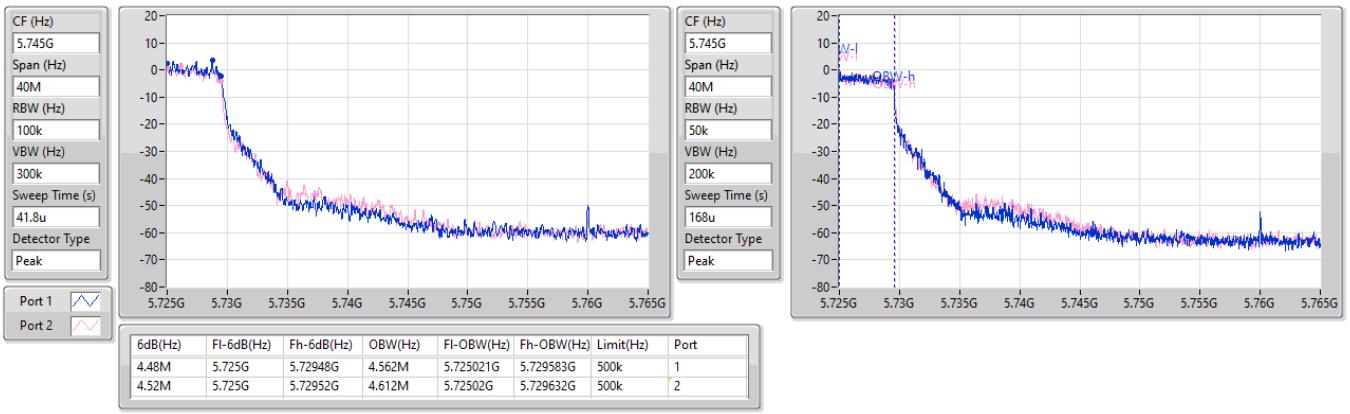


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.375M	5.709625G	5.725G	14.366M	5.710542G	5.724909G	Inf	1
15.075M	5.709925G	5.725G	14.454M	5.710496G	5.72495G	Inf	2

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

5720MHz Straddle 5.725-5.85GHz

23/10/2023

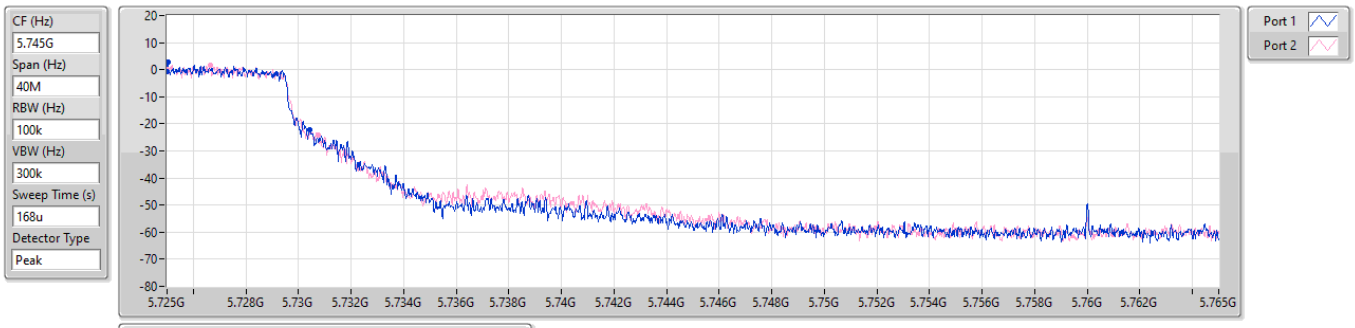


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.48M	5.725G	5.72948G	4.562M	5.725021G	5.729583G	500k	1
4.52M	5.725G	5.72952G	4.612M	5.72502G	5.729632G	500k	2

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

5720MHz Straddle 5.725-5.85GHz

23/10/2023

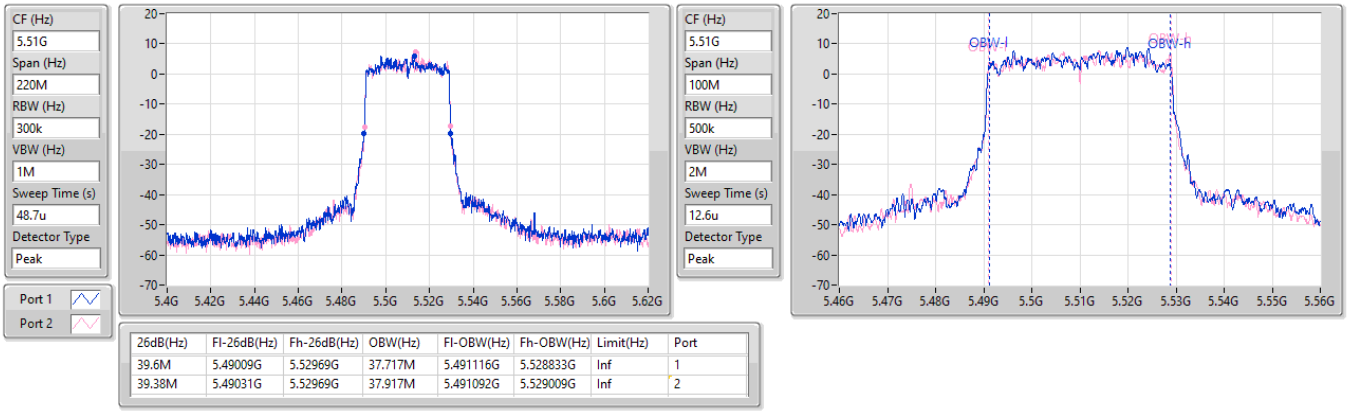


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.44M	5.725G	5.73044G	Inf	1
5.76M	5.725G	5.73076G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

5510MHz

23/10/2023

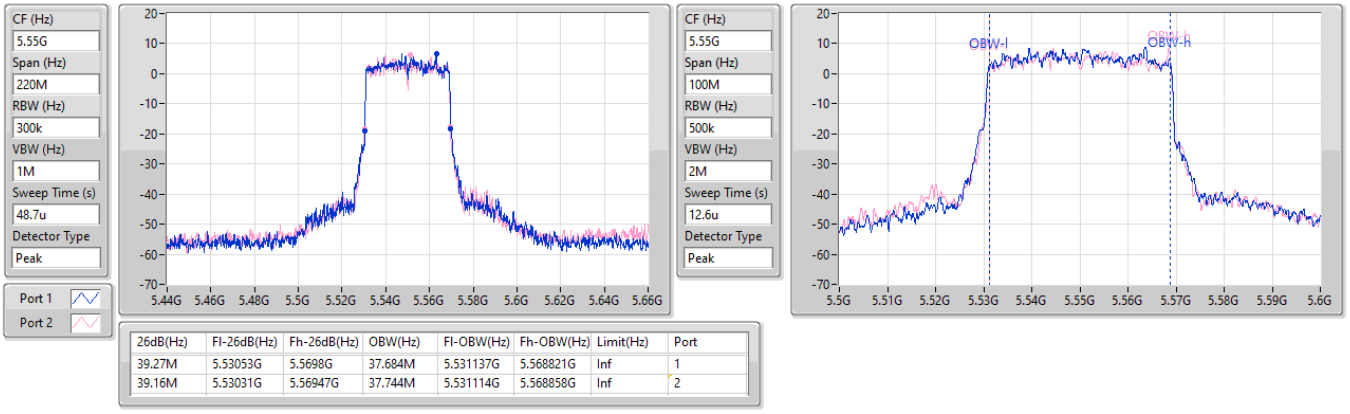


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.6M	5.49009G	5.52969G	37.717M	5.491116G	5.528833G	Inf	1
39.38M	5.49031G	5.52969G	37.917M	5.491092G	5.529009G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

5550MHz

23/10/2023

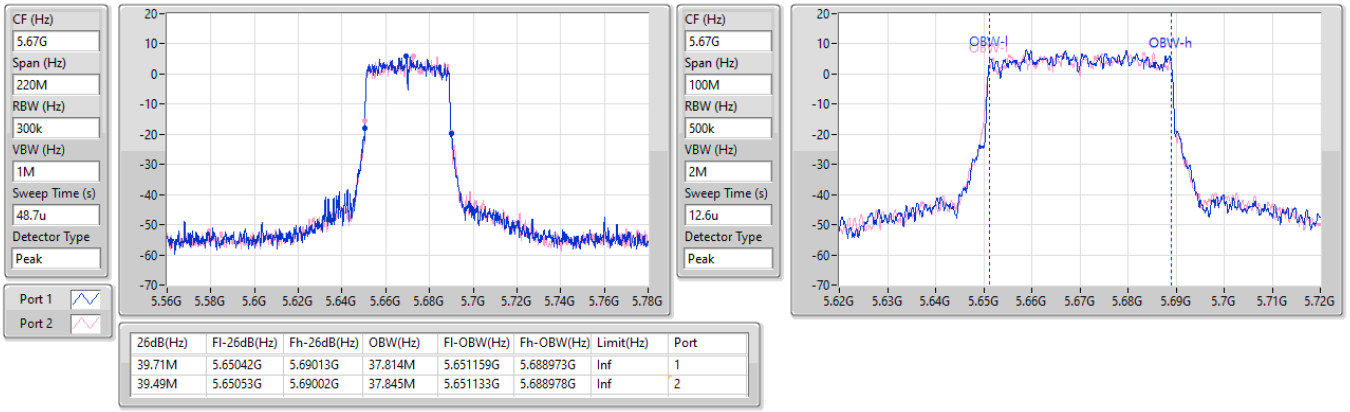


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.27M	5.53053G	5.5698G	37.684M	5.531137G	5.568821G	Inf	1
39.16M	5.53031G	5.56947G	37.744M	5.531114G	5.568858G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

5670MHz

23/10/2023

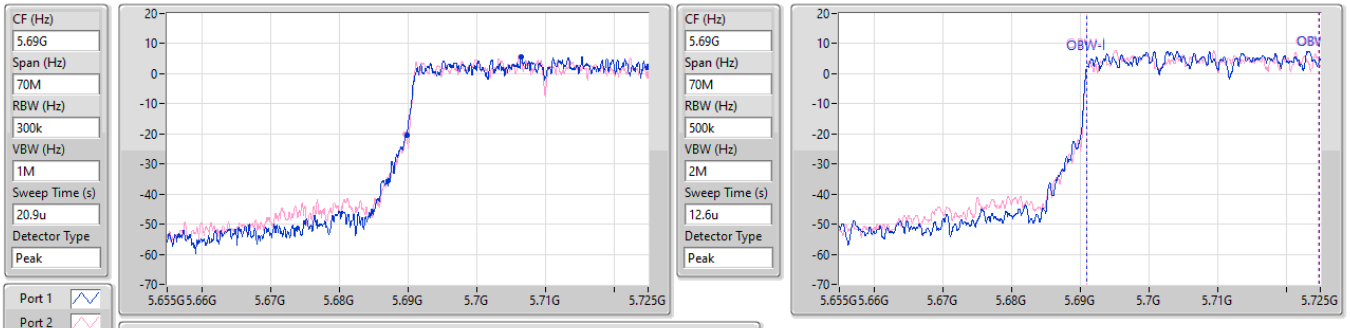


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.71M	5.65042G	5.69013G	37.814M	5.651159G	5.688973G	Inf	1
39.49M	5.65053G	5.69002G	37.845M	5.651133G	5.688978G	Inf	2

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

5710MHz Straddle 5.47-5.725GHz

23/10/2023

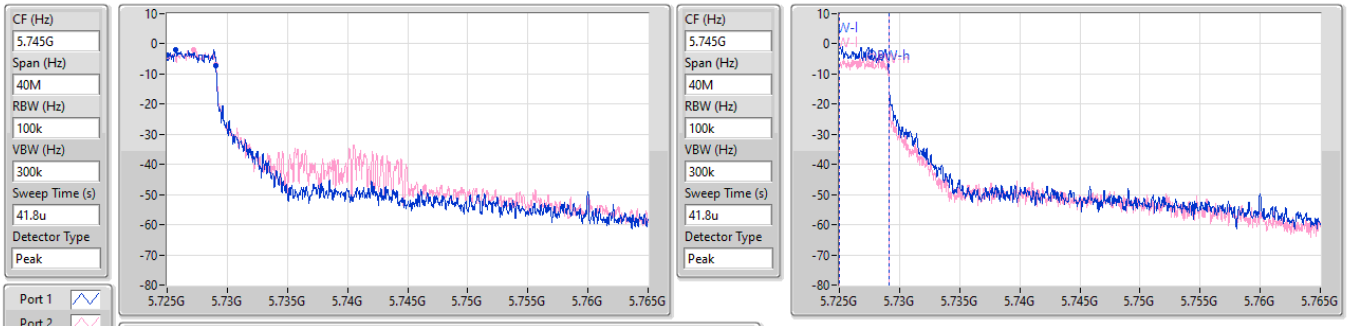


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.14M	5.68986G	5.725G	33.757M	5.691066G	5.724823G	Inf	1
35.315M	5.689685G	5.725G	33.685M	5.691071G	5.724756G	Inf	2

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

5710MHz Straddle 5.725-5.85GHz

23/10/2023

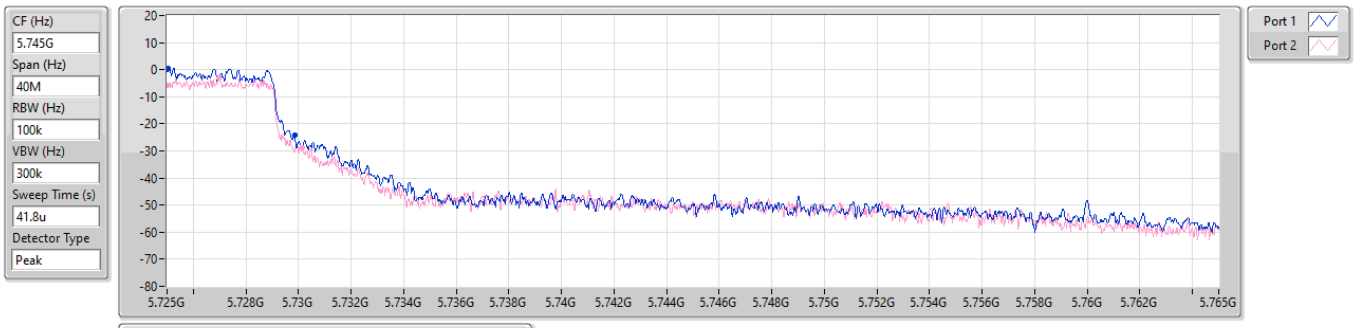


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.06M	5.725G	5.72906G	4.109M	5.725013G	5.729121G	500k	1
4.06M	5.725G	5.72906G	4.086M	5.725022G	5.729108G	500k	2

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

5710MHz Straddle 5.725-5.85GHz

23/10/2023

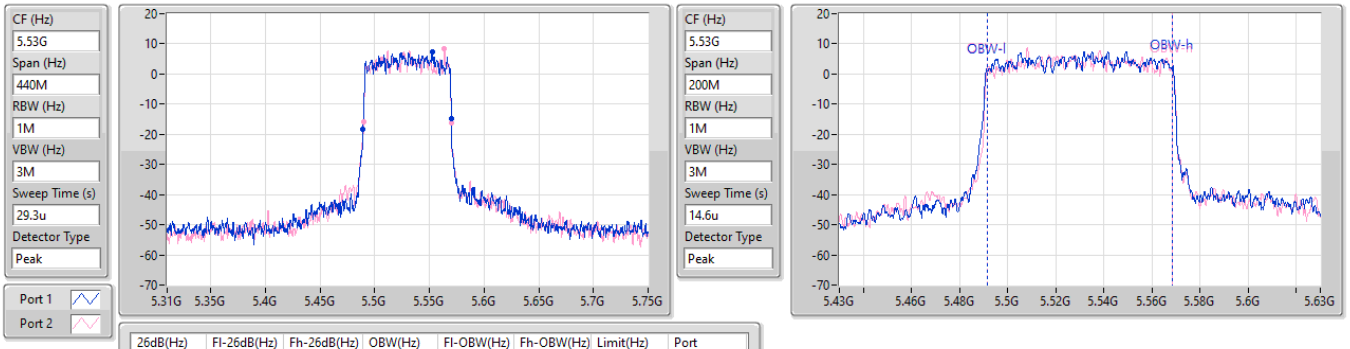


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.86M	5.725G	5.72986G	Inf	1
5.14M	5.725G	5.73014G	Inf	2

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5530MHz

23/10/2023

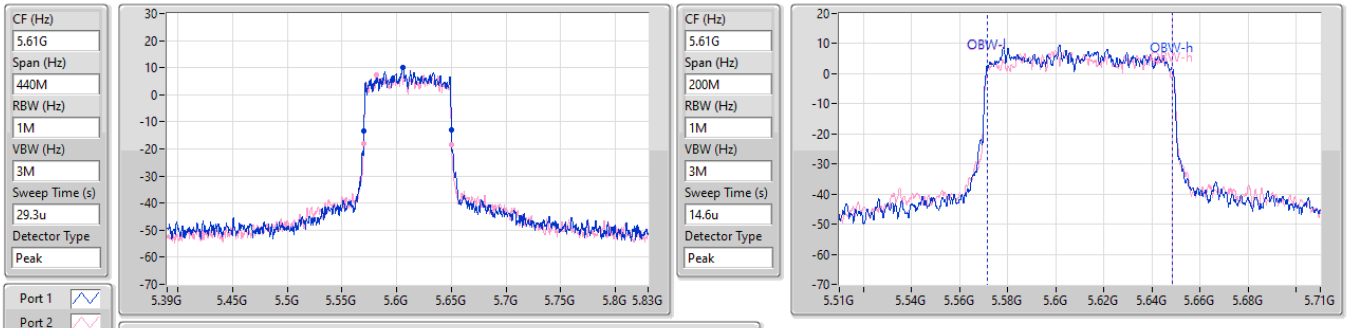


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.96M	5.48908G	5.57004G	77.295M	5.491329G	5.568624G	Inf	1
80.08M	5.48996G	5.57004G	76.965M	5.491628G	5.568593G	Inf	2

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5610MHz

23/10/2023

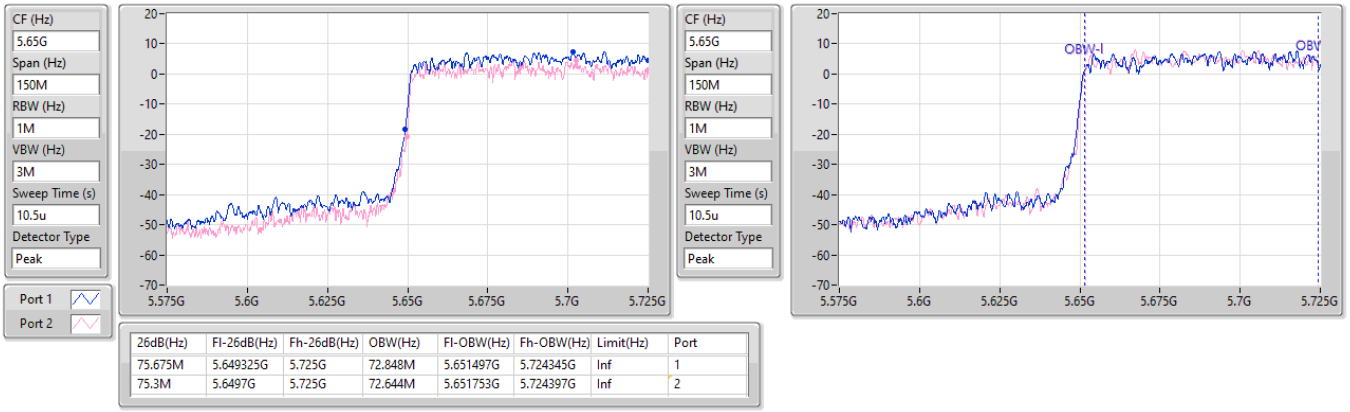


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.08M	5.56996G	5.65004G	76.872M	5.571481G	5.648353G	Inf	1
80.52M	5.56974G	5.65026G	76.789M	5.571616G	5.648405G	Inf	2

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5690MHz Straddle 5.47-5.725GHz

23/10/2023

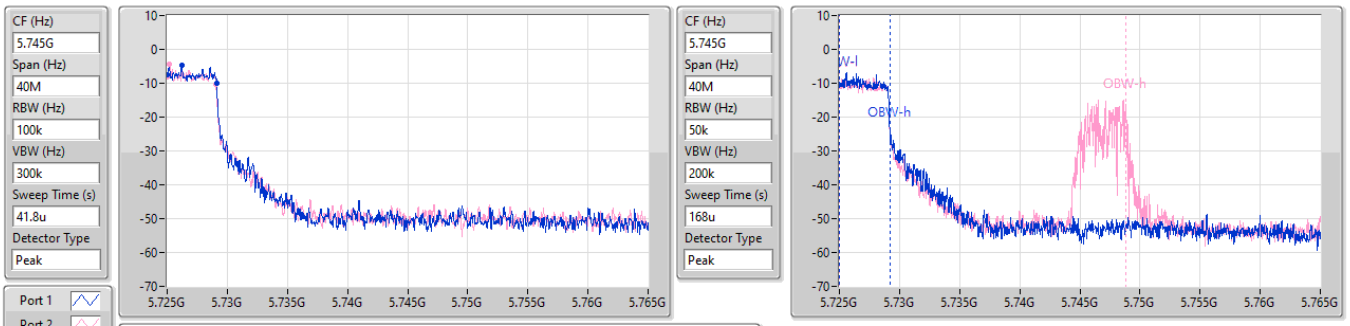


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.675M	5.649325G	5.725G	72.848M	5.651497G	5.724345G	Inf	1
75.3M	5.6497G	5.725G	72.644M	5.651753G	5.724397G	Inf	2

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5690MHz Straddle 5.725-5.85GHz

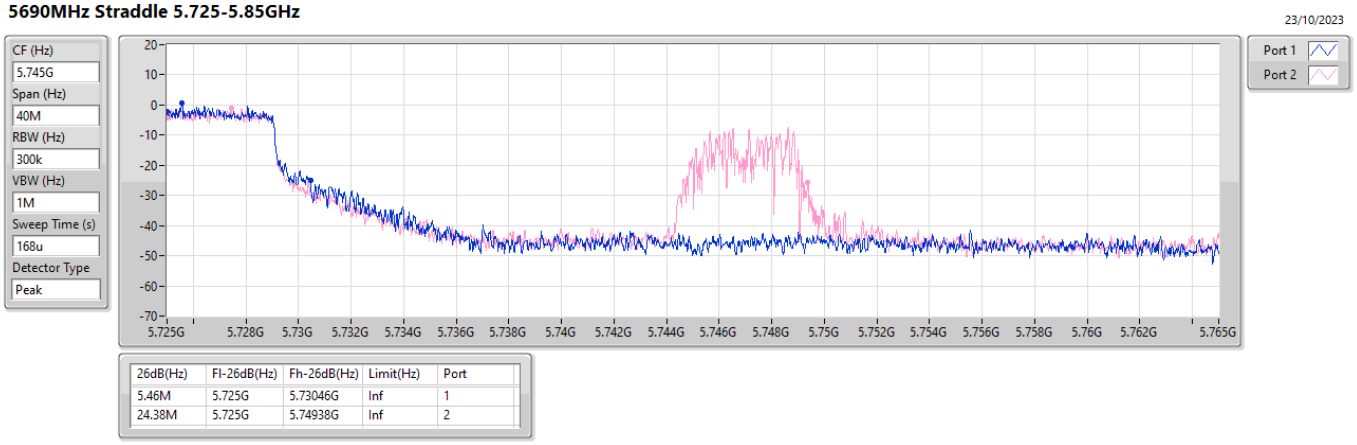
23/10/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.12M	5.725G	5.72912G	4.18M	5.72502G	5.7292G	500k	1
4.02M	5.725G	5.72902G	23.79M	5.725023G	5.748813G	500k	2

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5690MHz Straddle 5.725-5.85GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.46M	5.725G	5.73046G	Inf	1
24.38M	5.725G	5.74938G	Inf	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	20.47	0.11143
802.11a_Nss1,(6Mbps)_1TX	20.58	0.11429
802.11a_Nss1,(6Mbps)_2TX	20.29	0.10691
802.11ax HEW20_Nss1,(MCS0)_1TX	20.78	0.11967
802.11ax HEW20_Nss1,(MCS0)_1TX	20.85	0.12162
802.11ax HEW20_Nss1,(MCS0)_2TX	20.74	0.11858
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.74	0.11858
802.11ax HEW40_Nss1,(MCS0)_1TX	20.92	0.12359
802.11ax HEW40_Nss1,(MCS0)_1TX	20.87	0.12218
802.11ax HEW40_Nss1,(MCS0)_2TX	20.82	0.12078
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.82	0.12078
802.11ax HEW80_Nss1,(MCS0)_1TX	20.76	0.11912
802.11ax HEW80_Nss1,(MCS0)_1TX	20.77	0.11940
802.11ax HEW80_Nss1,(MCS0)_2TX	20.79	0.11995
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.79	0.11995
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	13.25	0.02113
802.11a_Nss1,(6Mbps)_1TX	13.17	0.02075
802.11a_Nss1,(6Mbps)_2TX	13.10	0.02042
802.11ax HEW20_Nss1,(MCS0)_1TX	13.82	0.02410
802.11ax HEW20_Nss1,(MCS0)_1TX	13.57	0.02275
802.11ax HEW20_Nss1,(MCS0)_2TX	14.24	0.02655
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	14.24	0.02655
802.11ax HEW40_Nss1,(MCS0)_1TX	10.67	0.01167
802.11ax HEW40_Nss1,(MCS0)_1TX	10.56	0.01138
802.11ax HEW40_Nss1,(MCS0)_2TX	10.71	0.01178
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	10.71	0.01178
802.11ax HEW80_Nss1,(MCS0)_1TX	6.54	0.00451
802.11ax HEW80_Nss1,(MCS0)_1TX	6.23	0.00420
802.11ax HEW80_Nss1,(MCS0)_2TX	6.73	0.00471
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	6.73	0.00471

Result

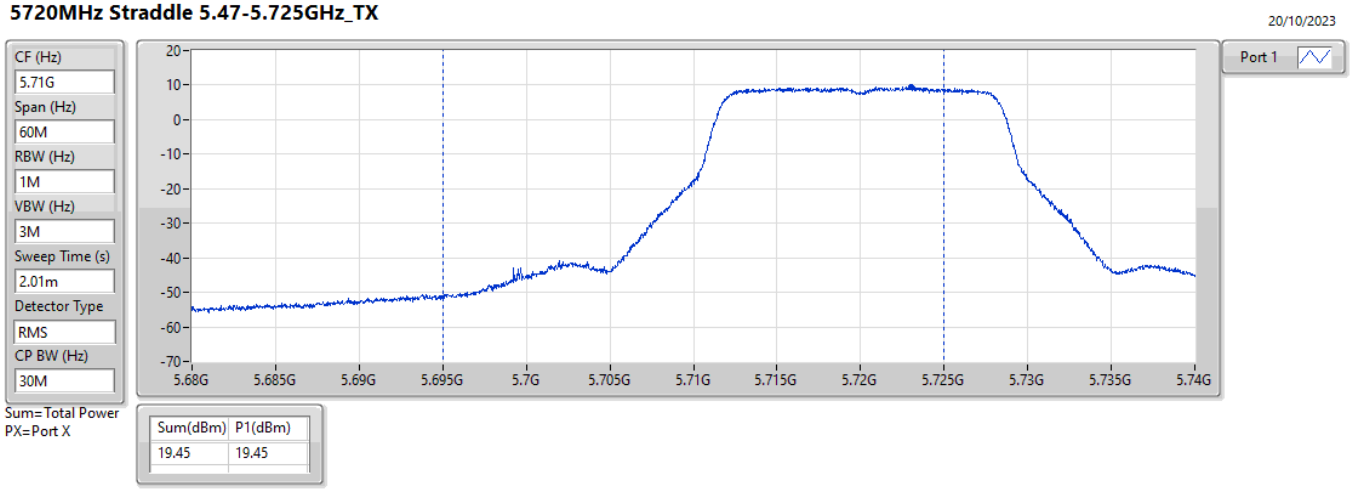
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	20.47	-	20.47	20.87
5580MHz	Pass	9.00	20.46	-	20.46	20.93
5700MHz	Pass	9.00	20.08	-	20.08	20.64
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	19.45	-	19.45	19.69
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	13.25	-	13.25	27.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	20.60	-	20.60	20.98
5580MHz	Pass	9.00	20.78	-	20.78	20.98
5700MHz	Pass	9.00	20.62	-	20.62	20.98
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	19.34	-	19.34	19.77
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	13.82	-	13.82	27.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5510MHz	Pass	9.00	20.40	-	20.40	20.98
5550MHz	Pass	9.00	20.92	-	20.92	20.98
5670MHz	Pass	9.00	20.70	-	20.70	20.98
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	20.61	-	20.61	20.98
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	10.67	-	10.67	27.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5530MHz	Pass	9.00	18.99	-	18.99	20.98
5610MHz	Pass	9.00	20.76	-	20.76	20.98
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	20.69	-	20.69	20.98
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	6.54	-	6.54	27.00
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	-	20.58	20.58	20.92
5580MHz	Pass	9.00	-	20.41	20.41	20.69
5700MHz	Pass	9.00	-	20.29	20.29	20.74
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	-	19.41	19.41	19.75
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	-	13.17	13.17	27.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	-	20.70	20.70	20.98
5580MHz	Pass	9.00	-	20.85	20.85	20.98
5700MHz	Pass	9.00	-	20.78	20.78	20.98
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	-	19.30	19.30	19.81
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	-	13.57	13.57	27.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5510MHz	Pass	9.00	-	19.84	19.84	20.98
5550MHz	Pass	9.00	-	20.87	20.87	20.98
5670MHz	Pass	9.00	-	20.65	20.65	20.98
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	-	20.74	20.74	20.98
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	-	10.56	10.56	27.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5530MHz	Pass	9.00	-	17.86	17.86	20.98
5610MHz	Pass	9.00	-	20.77	20.77	20.98
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	-	20.77	20.77	20.98
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	-	6.23	6.23	27.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	9.00	17.52	17.02	20.29	20.89
5580MHz	Pass	9.00	17.56	16.65	20.14	20.94
5700MHz	Pass	9.00	17.15	17.17	20.17	20.91
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	16.46	16.35	19.42	19.70
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	10.18	10.00	13.10	27.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	9.00	17.93	17.53	20.74	20.98
5580MHz	Pass	9.00	18.01	17.27	20.67	20.98

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
5700MHz	Pass	9.00	17.49	17.54	20.53	20.98
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	16.97	16.37	19.69	19.78
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	11.34	11.11	14.24	27.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	9.00	17.92	17.68	20.81	20.98
5550MHz	Pass	9.00	18.05	17.56	20.82	20.98
5670MHz	Pass	9.00	17.73	17.50	20.63	20.98
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	17.60	17.48	20.55	20.98
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	7.75	7.64	10.71	27.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	9.00	17.07	16.64	19.87	20.98
5610MHz	Pass	9.00	18.23	17.13	20.73	20.98
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	17.88	17.68	20.79	20.98
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	4.00	3.43	6.73	27.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	9.00	17.93	17.53	20.74	20.98
5580MHz	Pass	9.00	18.01	17.27	20.67	20.98
5700MHz	Pass	9.00	17.49	17.54	20.53	20.98
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	16.97	16.37	19.69	20.98
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	11.34	11.11	14.24	27.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	9.00	17.92	17.68	20.81	20.98
5550MHz	Pass	9.00	18.05	17.56	20.82	20.98
5670MHz	Pass	9.00	17.73	17.50	20.63	20.98
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	17.60	17.48	20.55	20.98
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	7.75	7.64	10.71	27.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	9.00	17.07	16.64	19.87	20.98
5610MHz	Pass	9.00	18.23	17.13	20.73	20.98
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	17.88	17.68	20.79	20.98
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	4.00	3.43	6.73	27.00

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

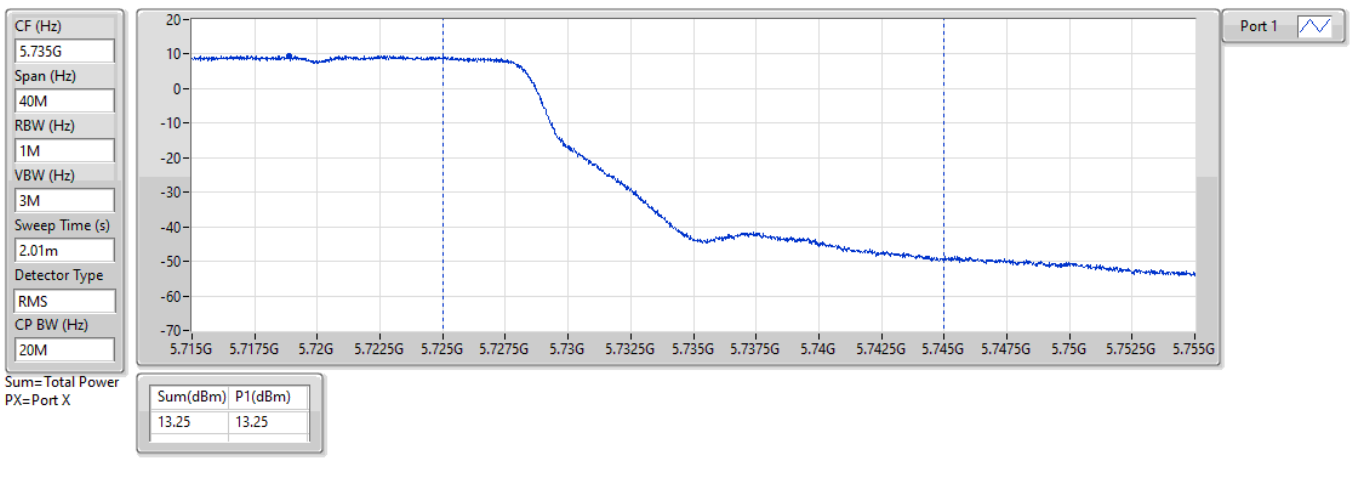
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TX



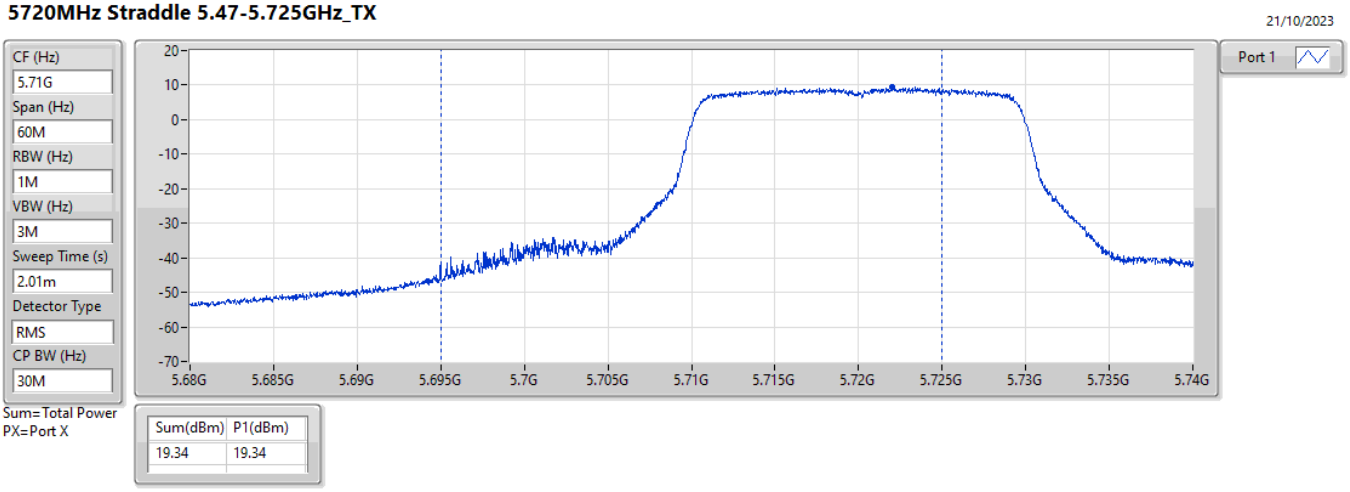
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TX



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **AV Power**

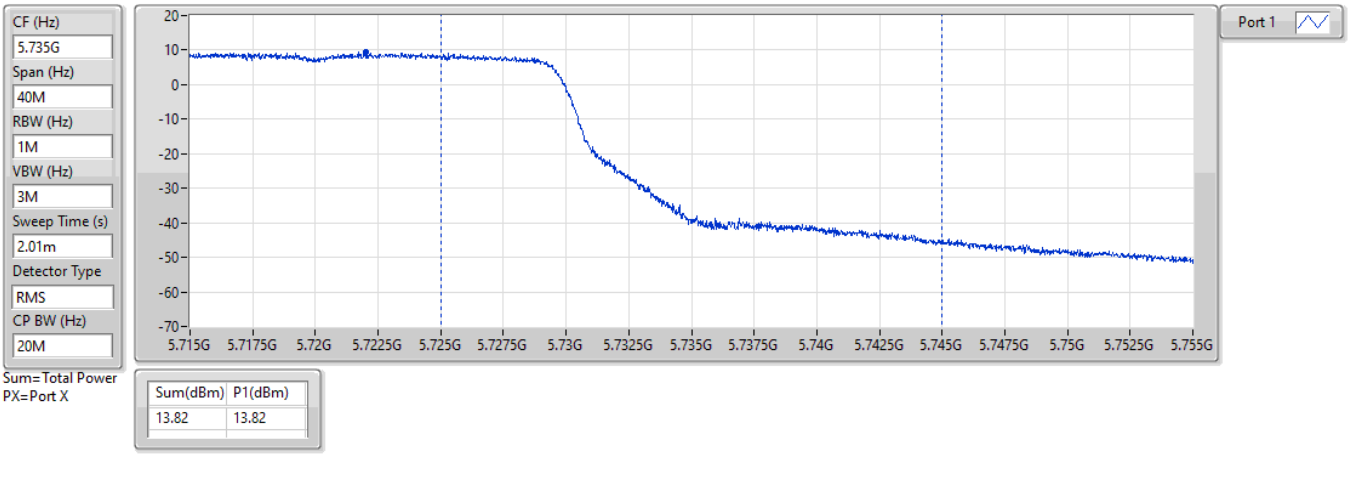
5720MHz Straddle 5.47-5.725GHz_TX



Sum(dBm)	P1(dBm)
19.34	19.34

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TX

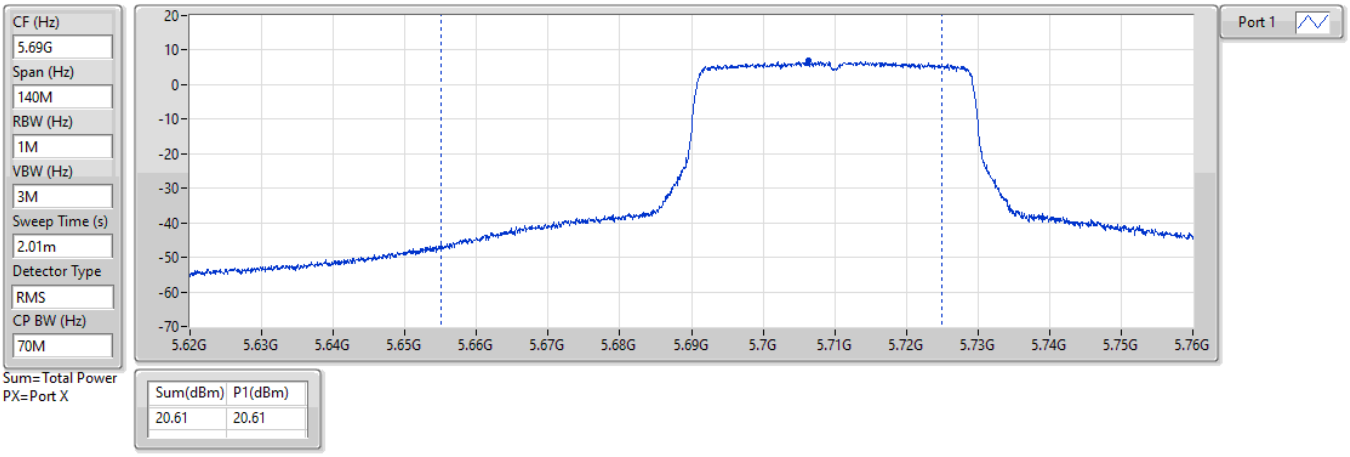


Sum(dBm)	P1(dBm)
13.82	13.82

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.47-5.725GHz_TX

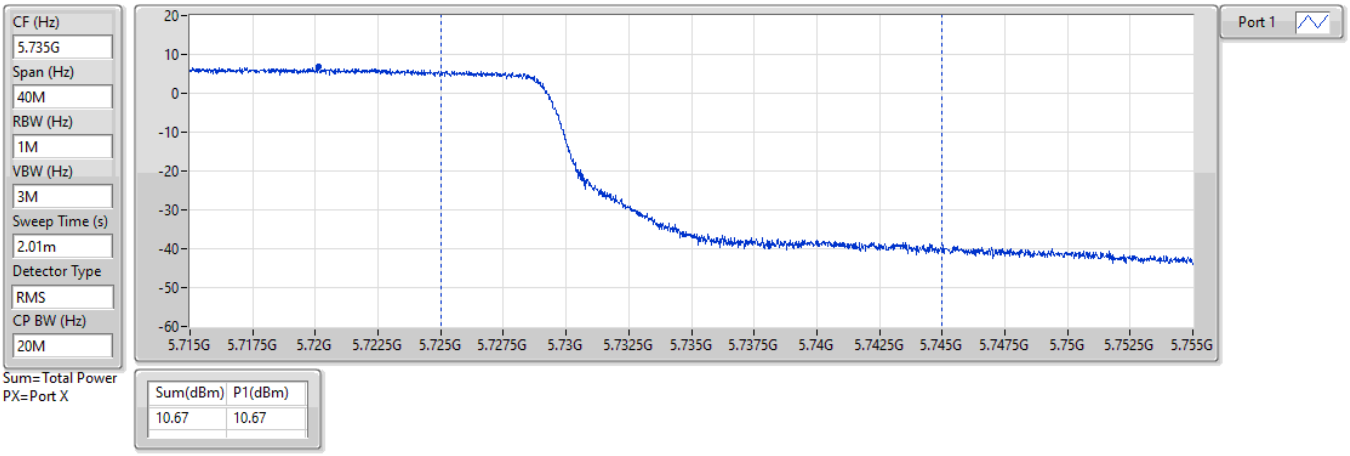
21/10/2023



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.725-5.85GHz_TX

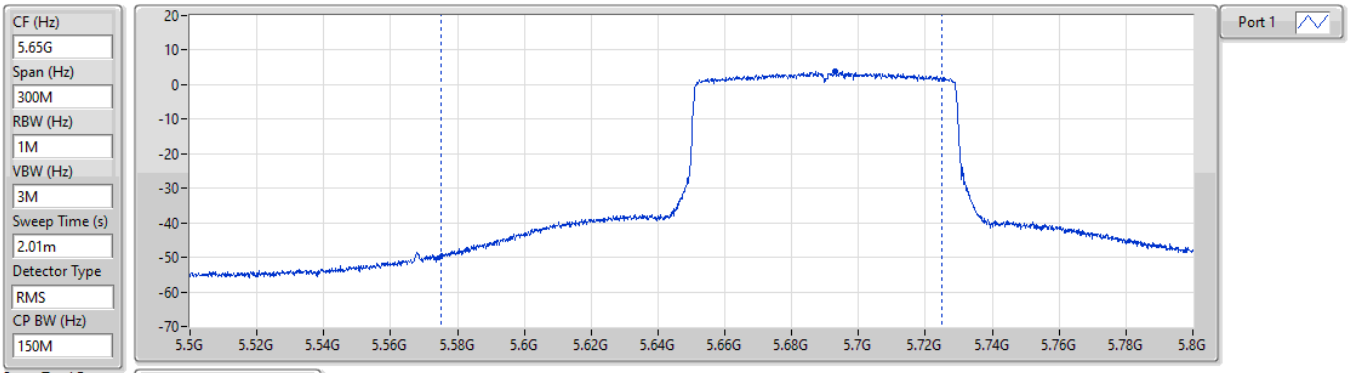
21/10/2023



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.47-5.725GHz_TX

21/10/2023

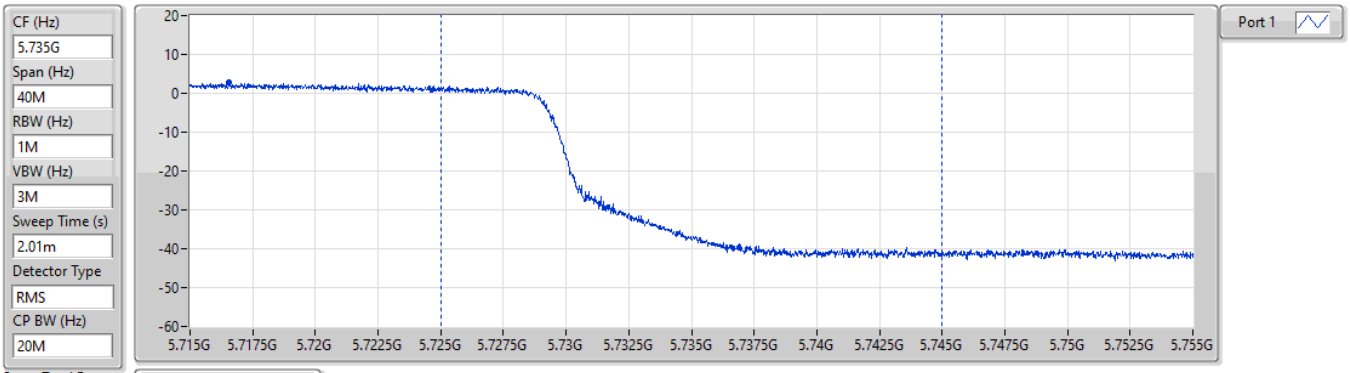


Sum(dBm)	P1(dBm)
20.69	20.69

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.725-5.85GHz_TX

21/10/2023

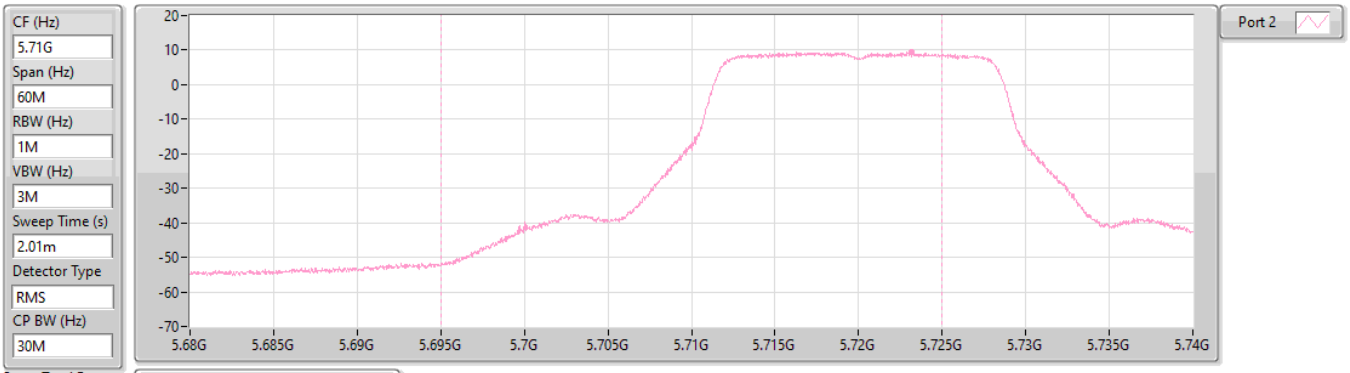


Sum(dBm)	P1(dBm)
6.54	6.54

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TX

21/10/2023

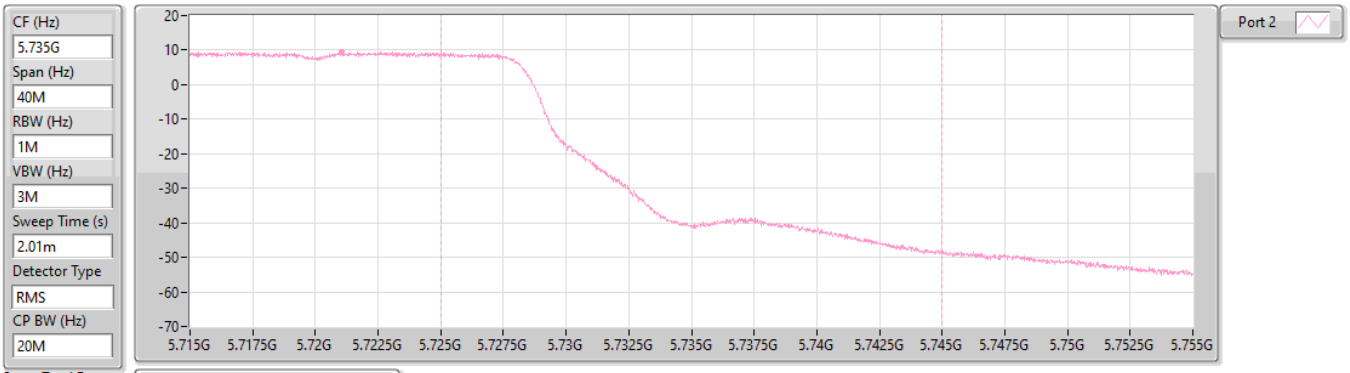


Sum(dBm)	P1(dBm)	P2(dBm)
19.41	-	19.41

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TX

21/10/2023

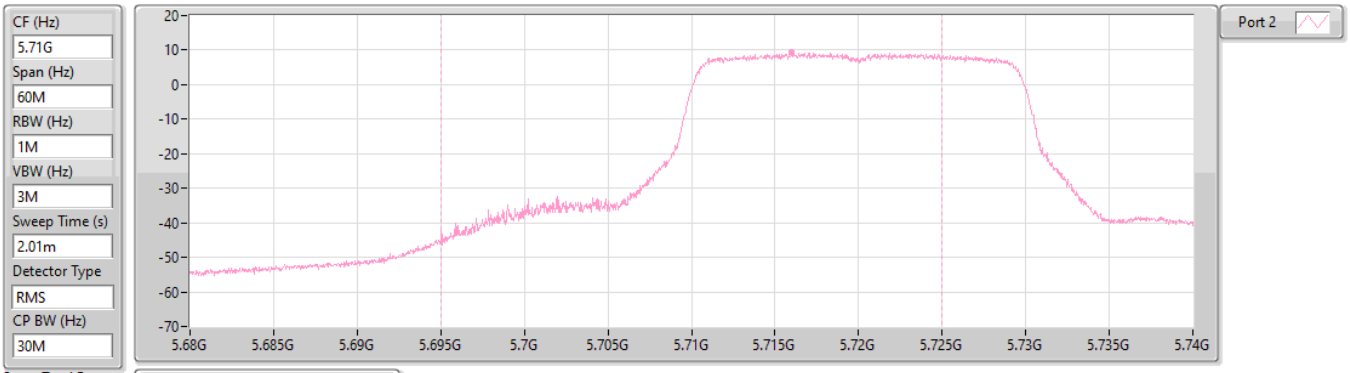


Sum(dBm)	P1(dBm)	P2(dBm)
13.17	-	13.17

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TX

21/10/2023

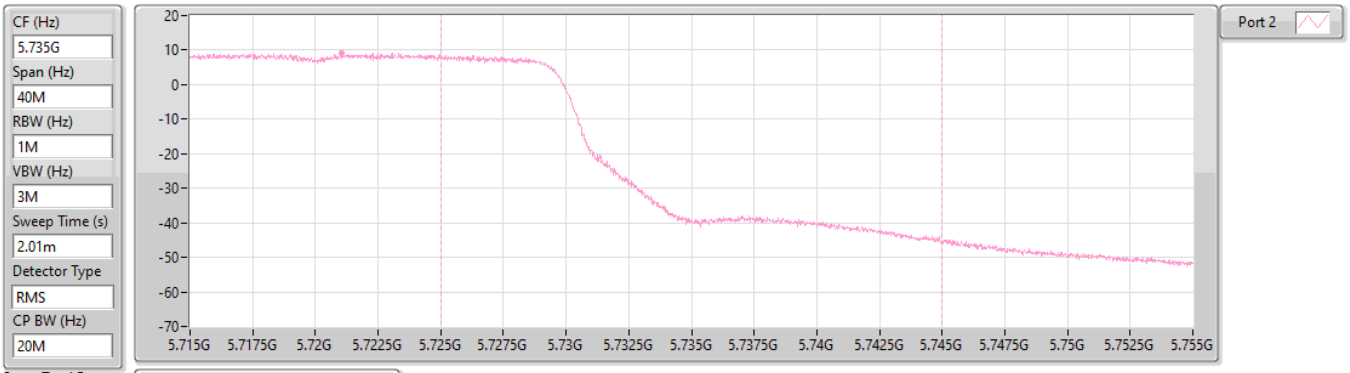


Sum(dBm)	P1(dBm)	P2(dBm)
19.30	-	19.30

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TX

21/10/2023

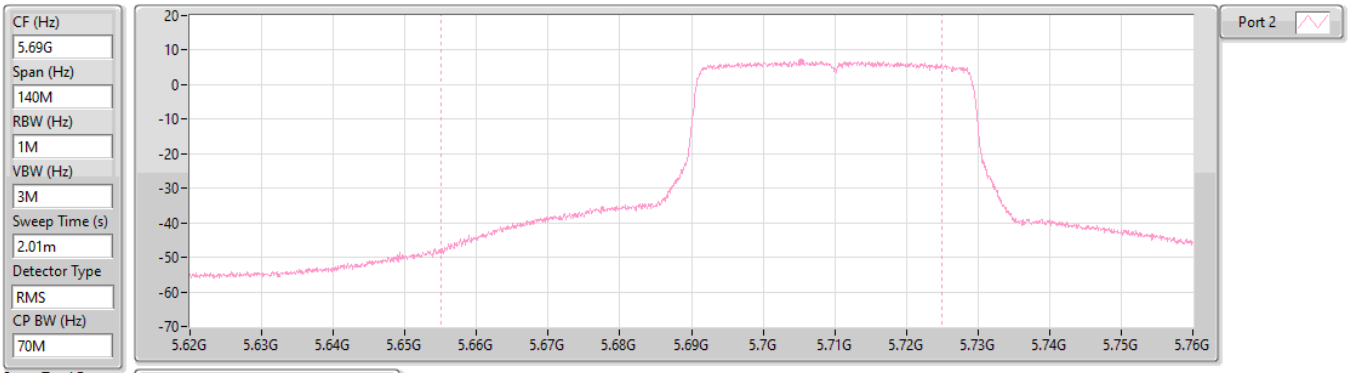


Sum(dBm)	P1(dBm)	P2(dBm)
13.57	-	13.57

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.47-5.725GHz_TX

21/10/2023

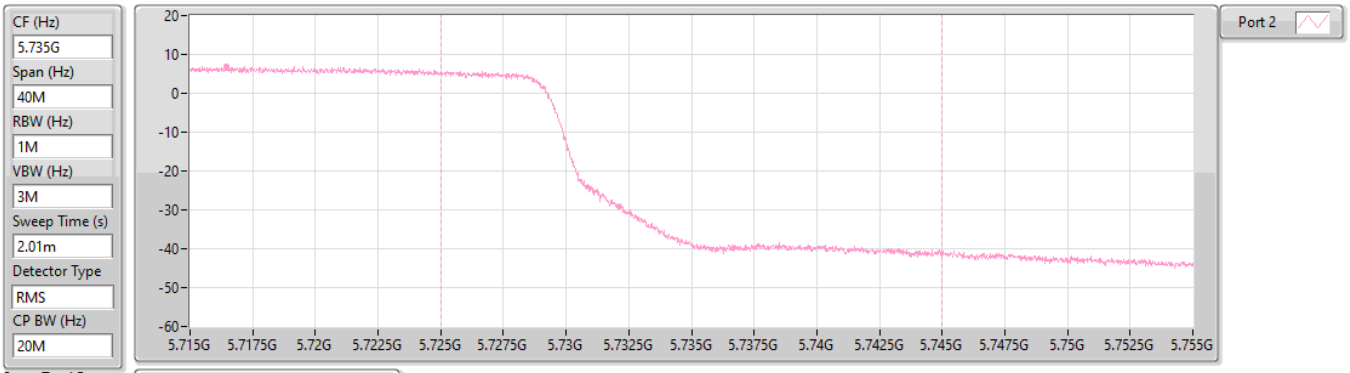


Sum(dBm)	P1(dBm)	P2(dBm)
20.74	-	20.74

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.725-5.85GHz_TX

21/10/2023

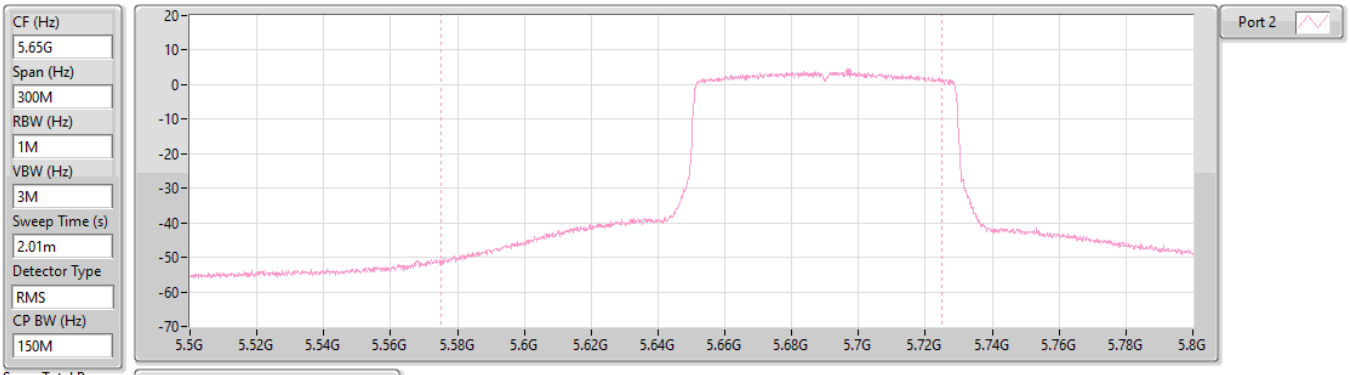


Sum(dBm)	P1(dBm)	P2(dBm)
10.56	-	10.56

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.47-5.725GHz_TX

21/10/2023

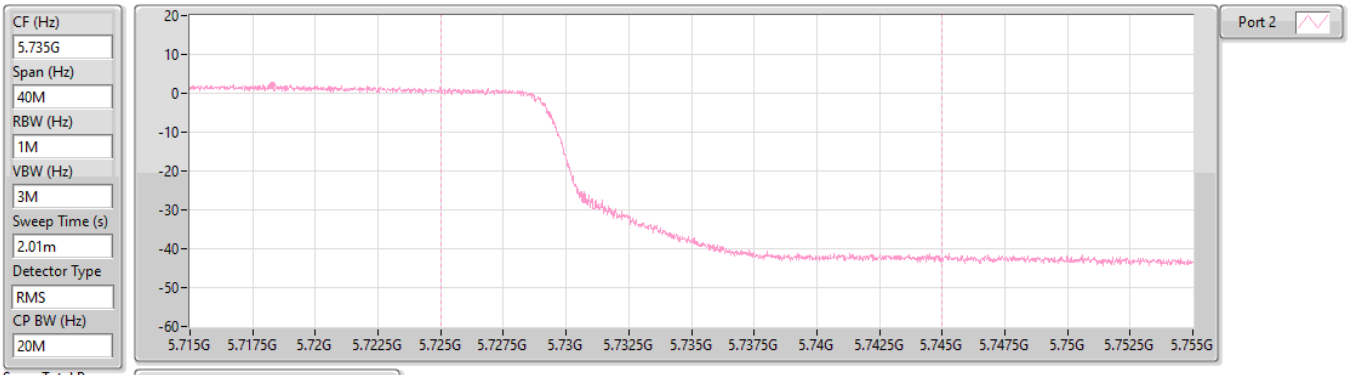


Sum(dBm)	P1(dBm)	P2(dBm)
20.77	-	20.77

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.725-5.85GHz_TX

21/10/2023

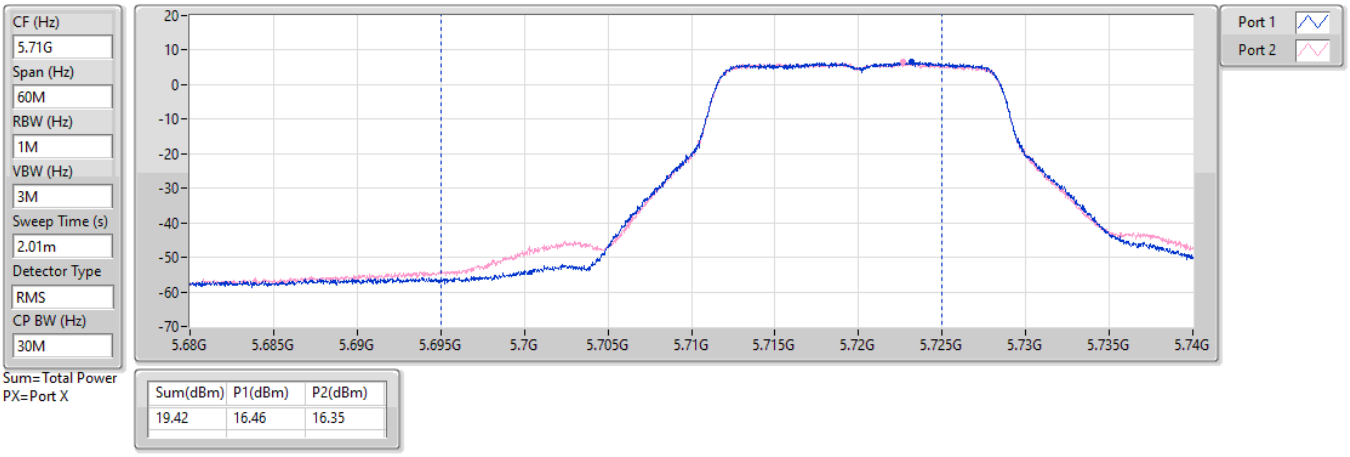


Sum(dBm)	P1(dBm)	P2(dBm)
6.23	-	6.23

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TX

23/10/2023

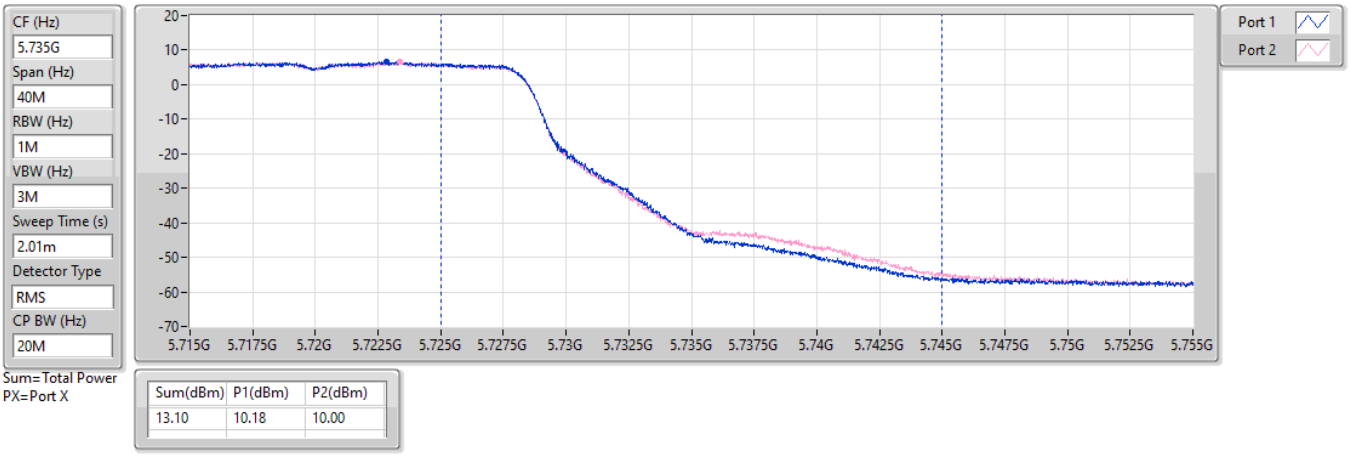


Sum(dBm)	P1(dBm)	P2(dBm)
19.42	16.46	16.35

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TX

23/10/2023

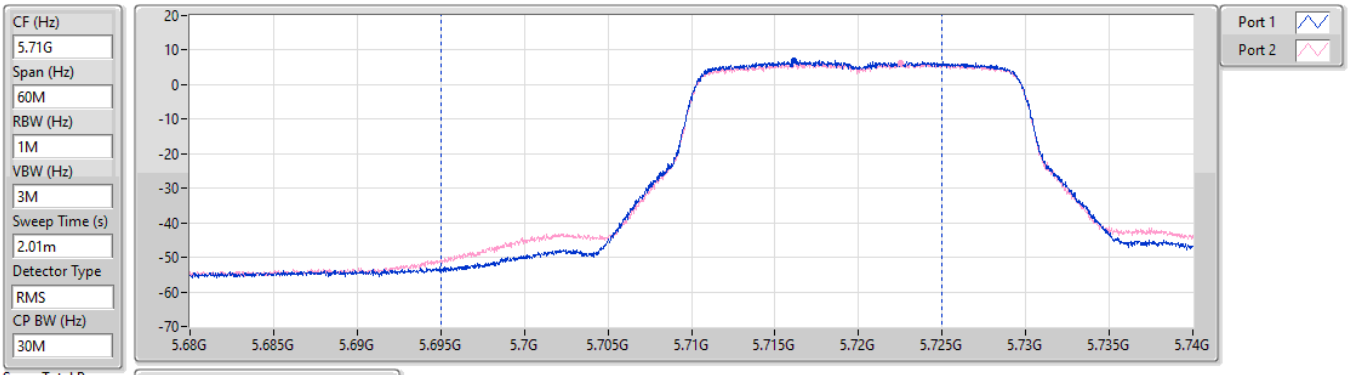


Sum(dBm)	P1(dBm)	P2(dBm)
13.10	10.18	10.00

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TX

23/10/2023

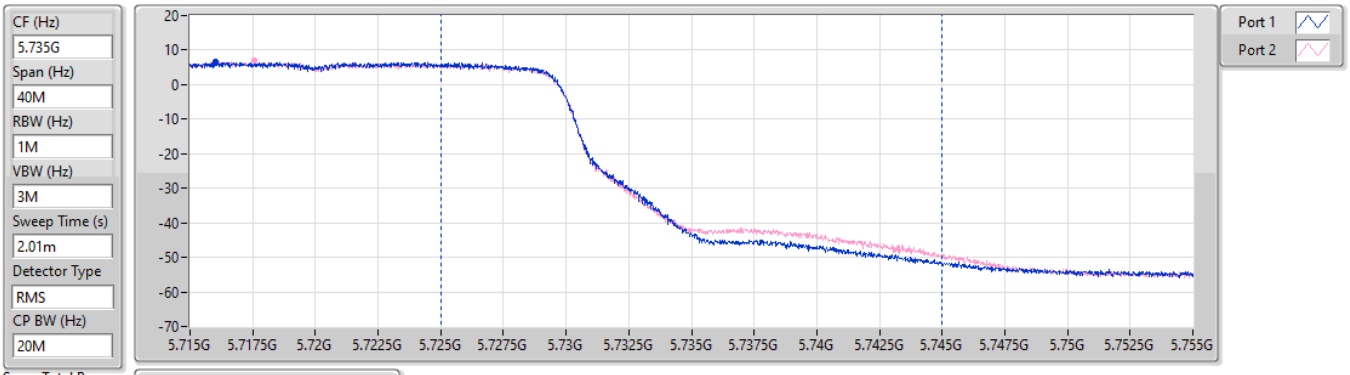


Sum(dBm)	P1(dBm)	P2(dBm)
19.69	16.97	16.37

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TX

23/10/2023

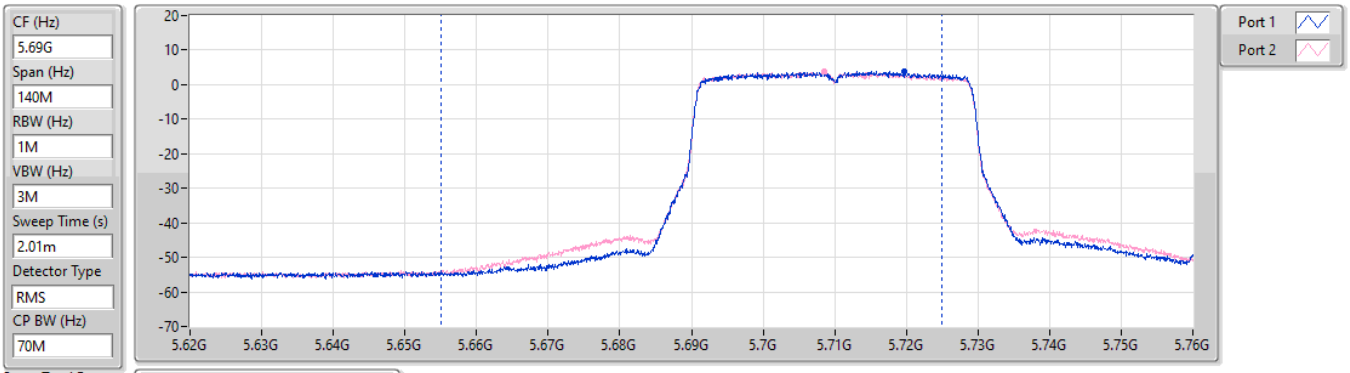


Sum(dBm)	P1(dBm)	P2(dBm)
14.24	11.34	11.11

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **AV Power**

5710MHz Straddle 5.47-5.725GHz_TX

23/10/2023

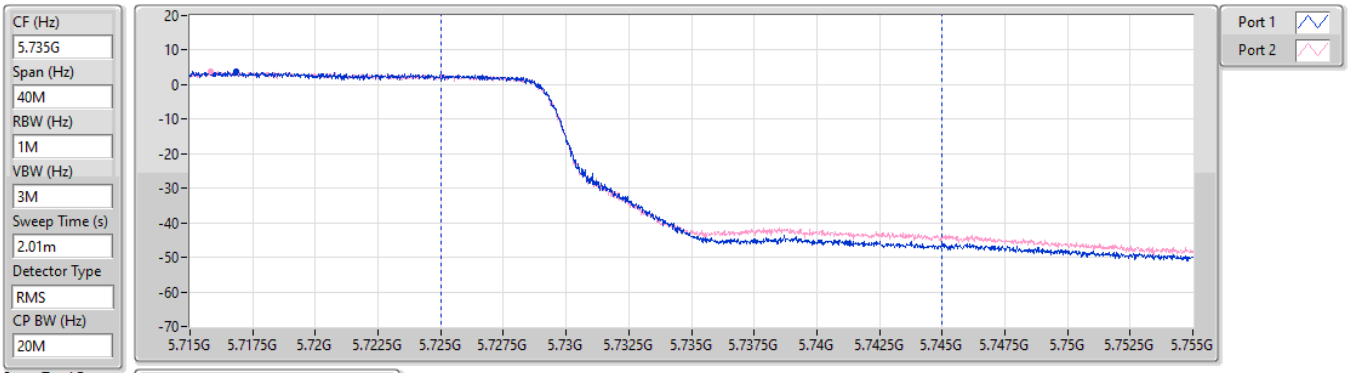


Sum(dBm)	P1(dBm)	P2(dBm)
20.55	17.60	17.48

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **AV Power**

5710MHz Straddle 5.725-5.85GHz_TX

23/10/2023

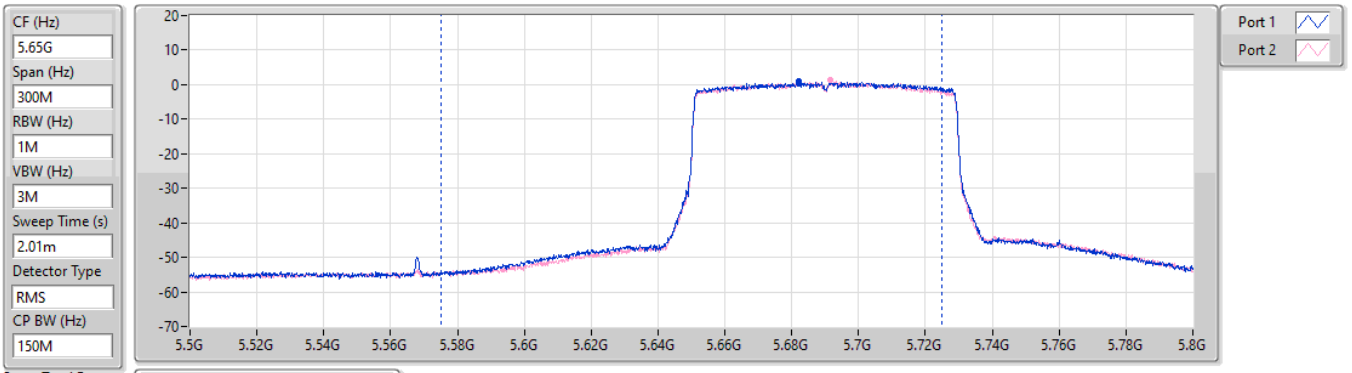


Sum(dBm)	P1(dBm)	P2(dBm)
10.71	7.75	7.64

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **AV Power**

5690MHz Straddle 5.47-5.725GHz_TX

23/10/2023

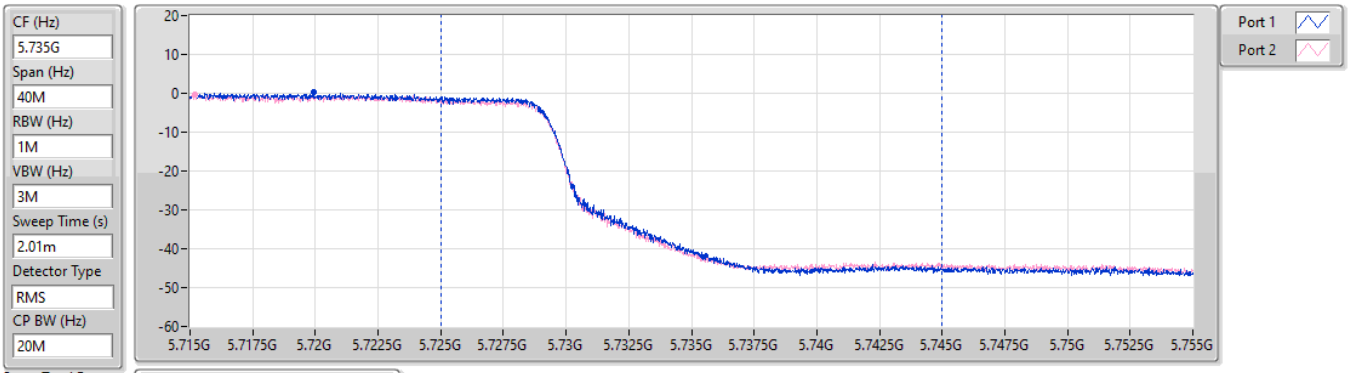


Sum(dBm)	P1(dBm)	P2(dBm)
20.79	17.88	17.68

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **AV Power**

5690MHz Straddle 5.725-5.85GHz_TX

23/10/2023



Sum(dBm)	P1(dBm)	P2(dBm)
6.73	4.00	3.43

Summary

Mode	PD (dBm/RBW)
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_1TX	7.98
802.11a_Nss1,(6Mbps)_1TX	7.98
802.11a_Nss1,(6Mbps)_2TX	7.85
802.11ax HEW20_Nss1,(MCS0)_1TX	7.93
802.11ax HEW20_Nss1,(MCS0)_1TX	7.80
802.11ax HEW20_Nss1,(MCS0)_2TX	7.67
802.11ax HEW40_Nss1,(MCS0)_1TX	5.58
802.11ax HEW40_Nss1,(MCS0)_1TX	5.71
802.11ax HEW40_Nss1,(MCS0)_2TX	4.88
802.11ax HEW80_Nss1,(MCS0)_1TX	2.57
802.11ax HEW80_Nss1,(MCS0)_1TX	2.41
802.11ax HEW80_Nss1,(MCS0)_2TX	1.84
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	6.12
802.11a_Nss1,(6Mbps)_1TX	5.73
802.11a_Nss1,(6Mbps)_2TX	5.63
802.11ax HEW20_Nss1,(MCS0)_1TX	6.06
802.11ax HEW20_Nss1,(MCS0)_1TX	5.85
802.11ax HEW20_Nss1,(MCS0)_2TX	5.67
802.11ax HEW40_Nss1,(MCS0)_1TX	3.07
802.11ax HEW40_Nss1,(MCS0)_1TX	3.01
802.11ax HEW40_Nss1,(MCS0)_2TX	2.18
802.11ax HEW80_Nss1,(MCS0)_1TX	-1.20
802.11ax HEW80_Nss1,(MCS0)_1TX	-1.34
802.11ax HEW80_Nss1,(MCS0)_2TX	-1.60

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

Result

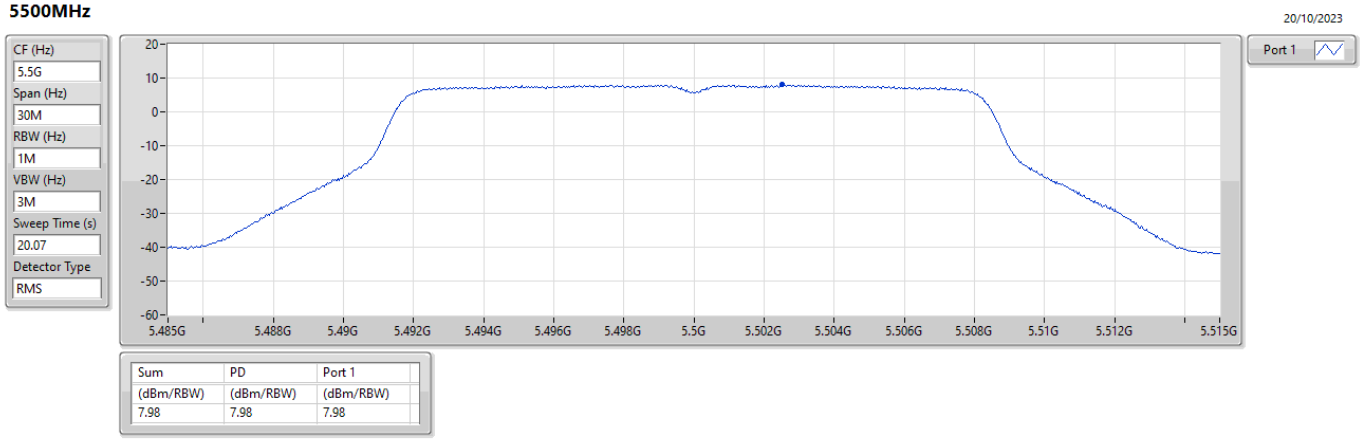
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	7.98	-	7.98	8.00
5580MHz	Pass	9.00	7.89	-	7.89	8.00
5700MHz	Pass	9.00	7.56	-	7.56	8.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	7.80	-	7.80	8.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	6.12	-	6.12	27.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	7.24	-	7.24	8.00
5580MHz	Pass	9.00	7.33	-	7.33	8.00
5700MHz	Pass	9.00	7.46	-	7.46	8.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	7.93	-	7.93	8.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	6.06	-	6.06	27.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5510MHz	Pass	9.00	4.08	-	4.08	8.00
5550MHz	Pass	9.00	4.52	-	4.52	8.00
5670MHz	Pass	9.00	4.28	-	4.28	8.00
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	5.58	-	5.58	8.00
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	3.07	-	3.07	27.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5530MHz	Pass	9.00	-0.16	-	-0.16	8.00
5610MHz	Pass	9.00	1.52	-	1.52	8.00
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	2.57	-	2.57	8.00
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	-1.20	-	-1.20	27.00
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	-	7.98	7.98	8.00
5580MHz	Pass	9.00	-	7.62	7.62	8.00
5700MHz	Pass	9.00	-	7.51	7.51	8.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	-	7.56	7.56	8.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	-	5.73	5.73	27.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5500MHz	Pass	9.00	-	7.45	7.45	8.00
5580MHz	Pass	9.00	-	7.39	7.39	8.00
5700MHz	Pass	9.00	-	7.40	7.40	8.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	-	7.80	7.80	8.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	-	5.85	5.85	27.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5510MHz	Pass	9.00	-	3.57	3.57	8.00
5550MHz	Pass	9.00	-	4.52	4.52	8.00
5670MHz	Pass	9.00	-	4.30	4.30	8.00
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	-	5.71	5.71	8.00
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	-	3.01	3.01	27.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5530MHz	Pass	9.00	-	-1.25	-1.25	8.00
5610MHz	Pass	9.00	-	1.48	1.48	8.00
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	-	2.41	2.41	8.00
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	-	-1.34	-1.34	27.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	9.00	5.05	4.79	7.85	8.00
5580MHz	Pass	9.00	5.16	4.40	7.66	8.00
5700MHz	Pass	9.00	4.69	4.77	7.70	8.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	4.78	4.48	7.59	8.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	2.65	2.59	5.63	27.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	9.00	4.94	4.56	7.63	8.00
5580MHz	Pass	9.00	4.91	4.50	7.61	8.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
5700MHz	Pass	9.00	4.59	4.84	7.67	8.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.00	4.69	4.41	7.51	8.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.00	2.75	2.58	5.67	27.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	9.00	1.93	1.85	4.88	8.00
5550MHz	Pass	9.00	2.02	1.56	4.67	8.00
5670MHz	Pass	9.00	1.63	1.56	4.53	8.00
5710MHz Straddle 5.47-5.725GHz	Pass	9.00	1.69	1.73	4.67	8.00
5710MHz Straddle 5.725-5.85GHz	Pass	9.00	-0.60	-0.88	2.18	27.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	9.00	-1.82	-2.34	0.88	8.00
5610MHz	Pass	9.00	-0.60	-1.81	1.84	8.00
5690MHz Straddle 5.47-5.725GHz	Pass	9.00	-1.09	-1.23	1.84	8.00
5690MHz Straddle 5.725-5.85GHz	Pass	9.00	-4.37	-4.77	-1.60	27.00

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

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

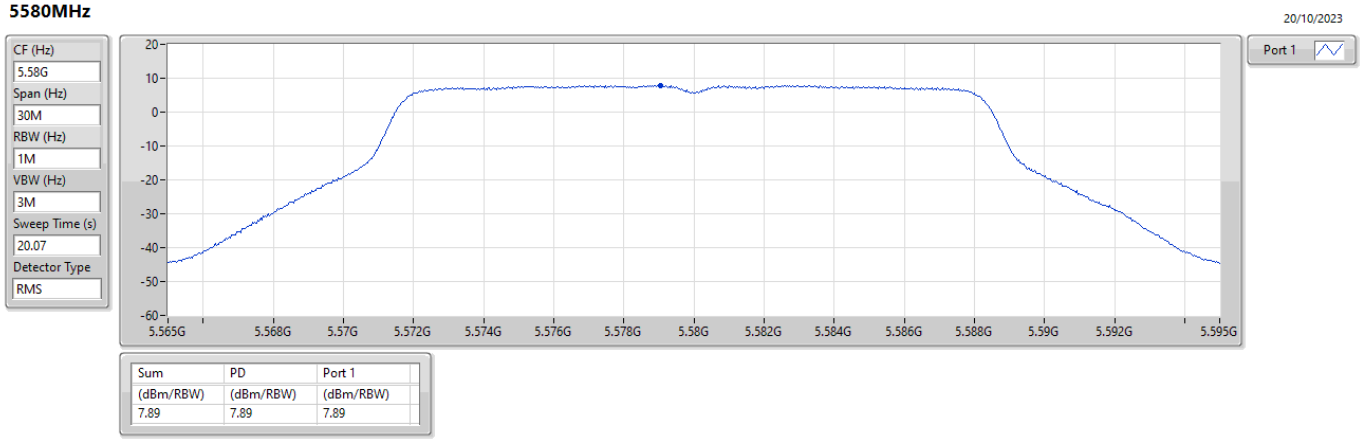
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.98	7.98	7.98

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

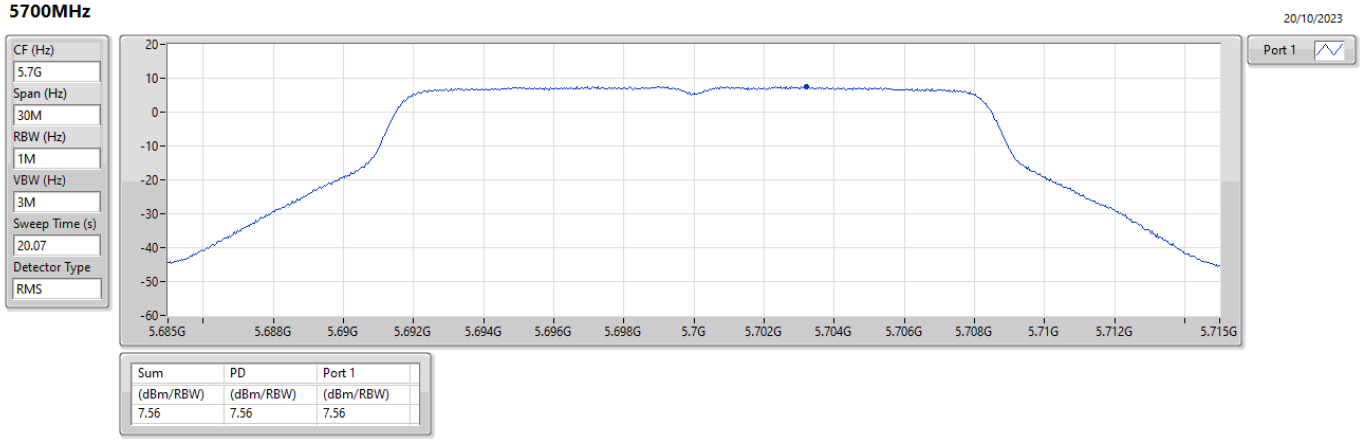
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.89	7.89	7.89

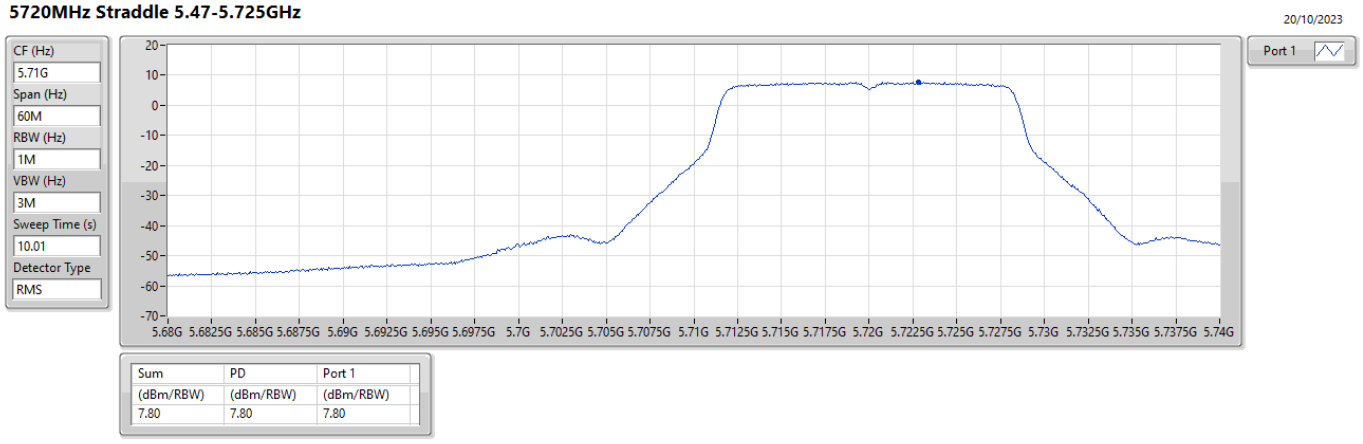
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5700MHz



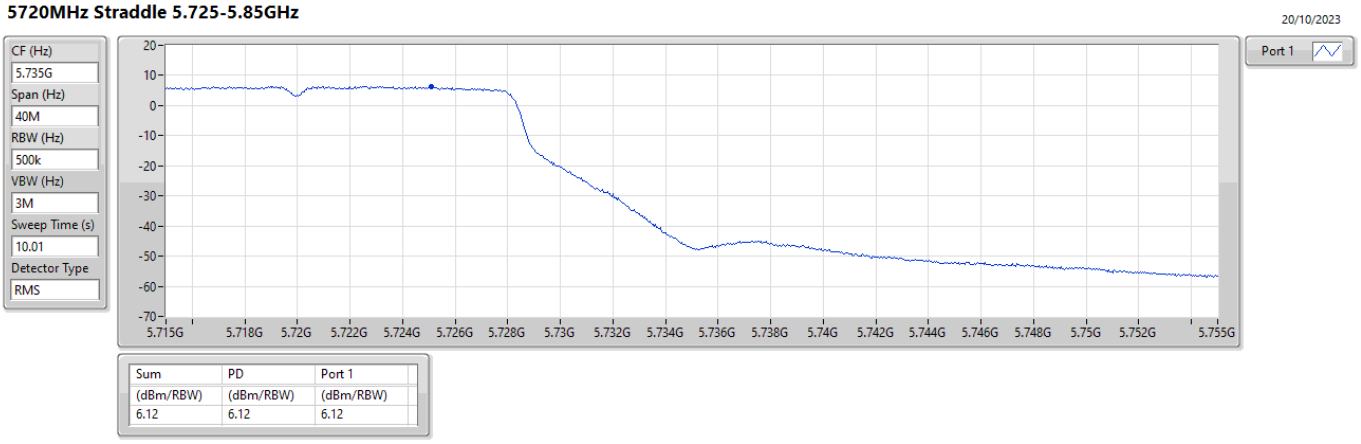
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5720MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

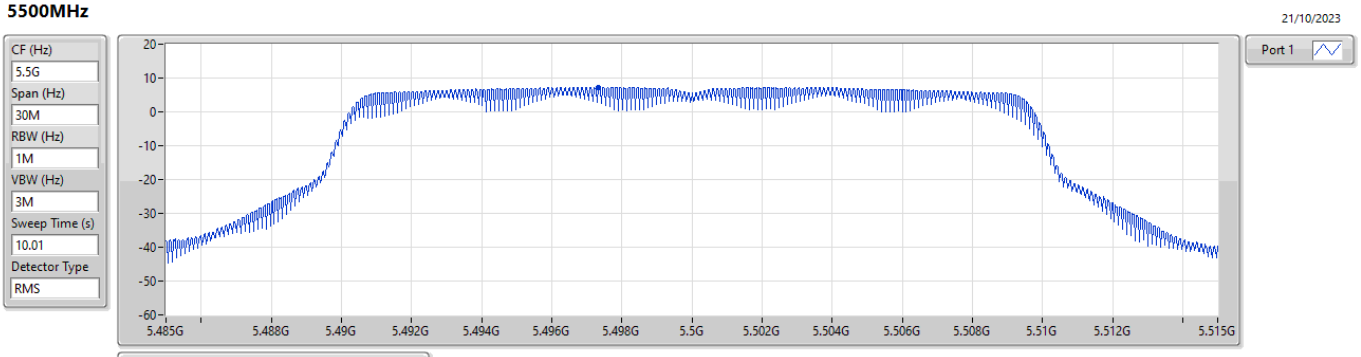
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.12	6.12	6.12

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

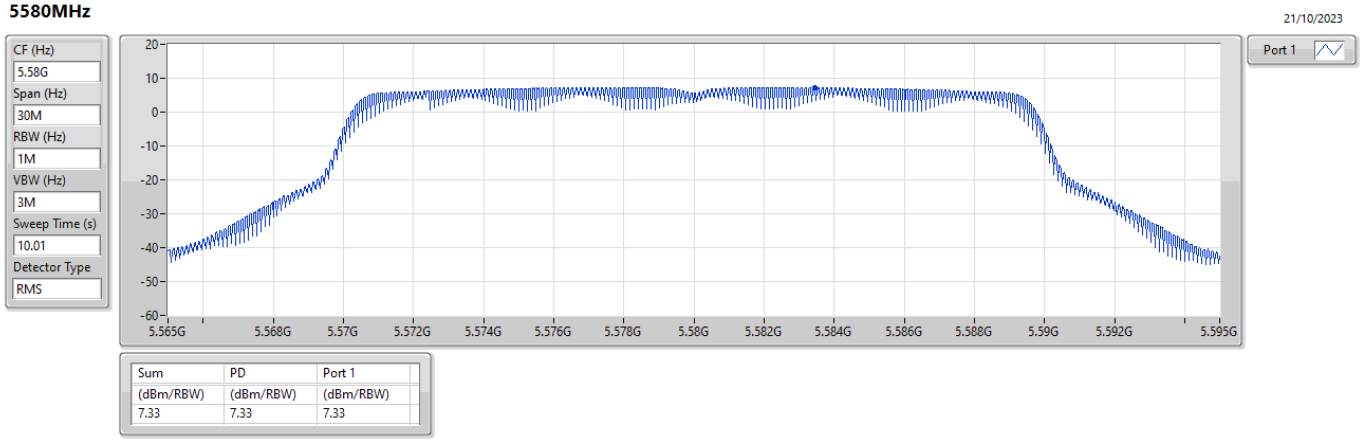
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.24	7.24	7.24

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

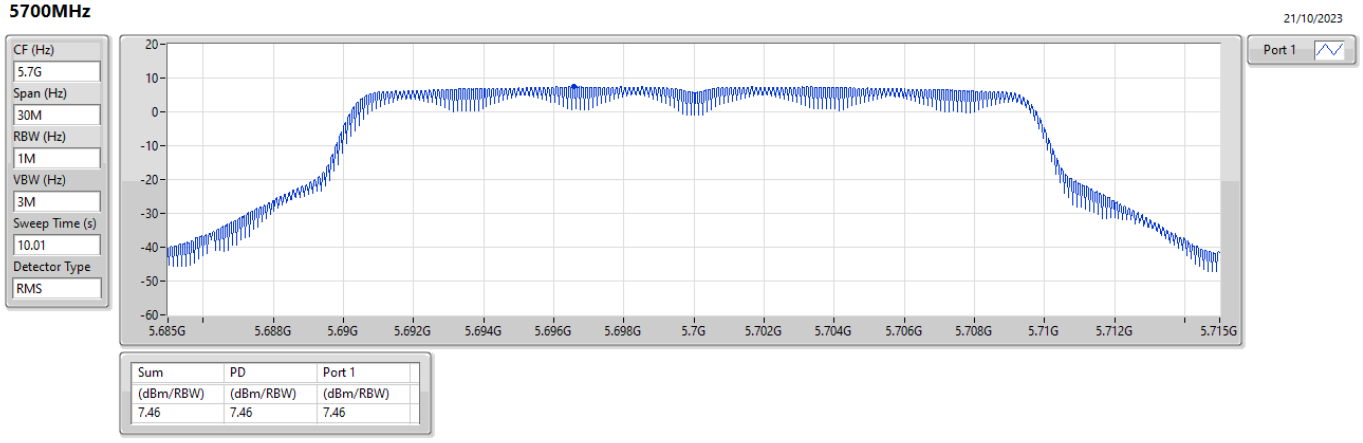
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.33	7.33	7.33

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

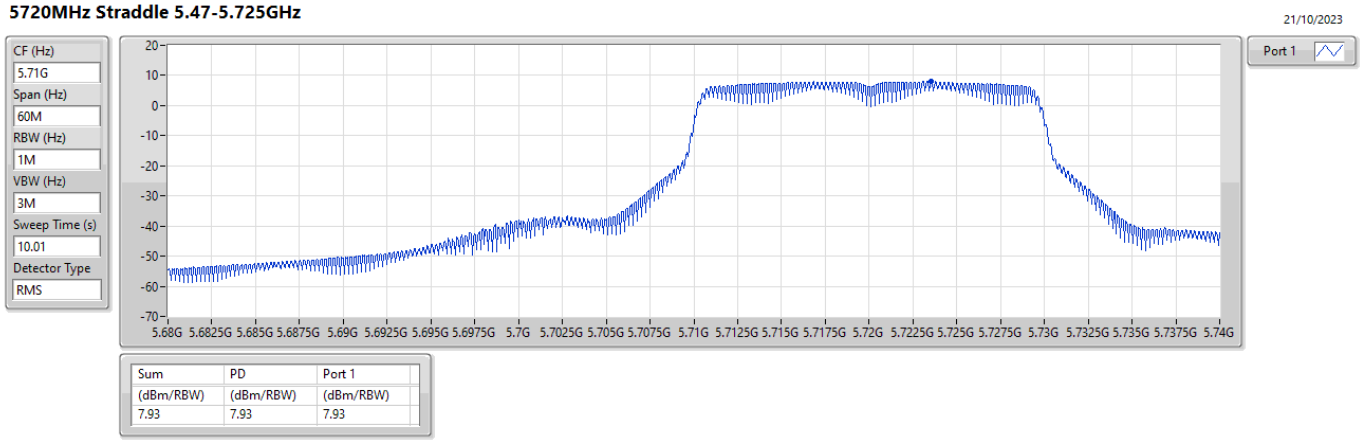
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.46	7.46	7.46

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

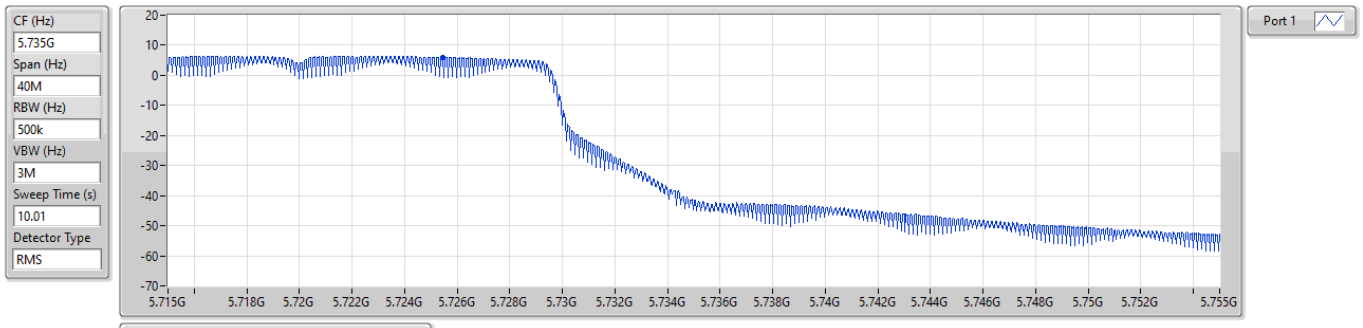
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.93	7.93	7.93

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

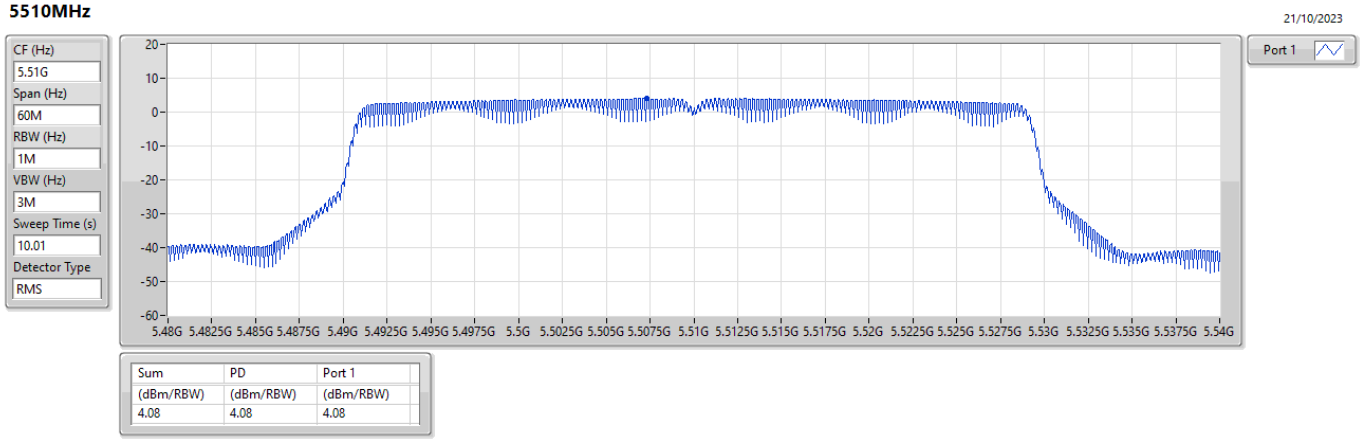
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.06	6.06	6.06

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

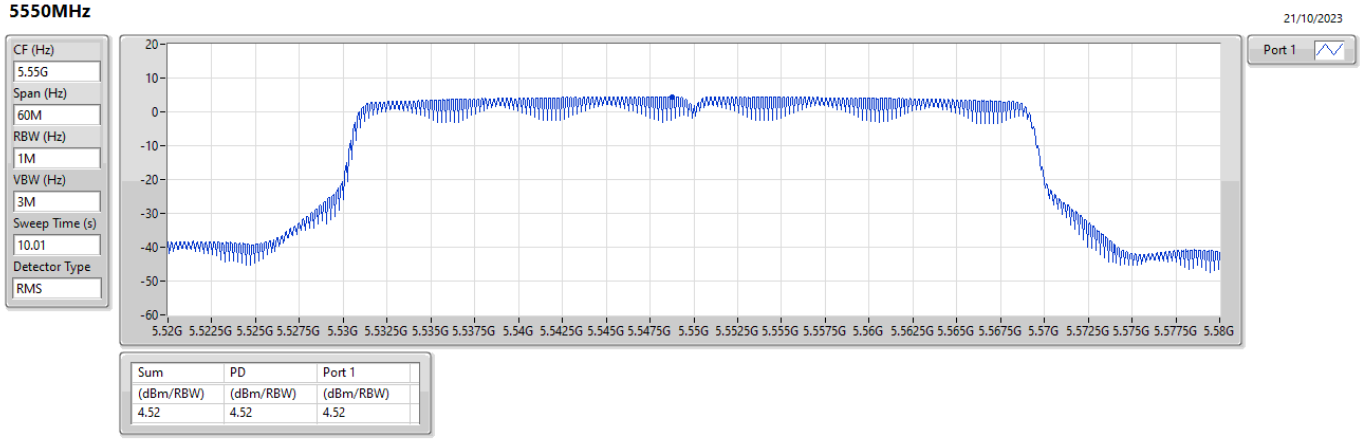
5510MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.08	4.08	4.08

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

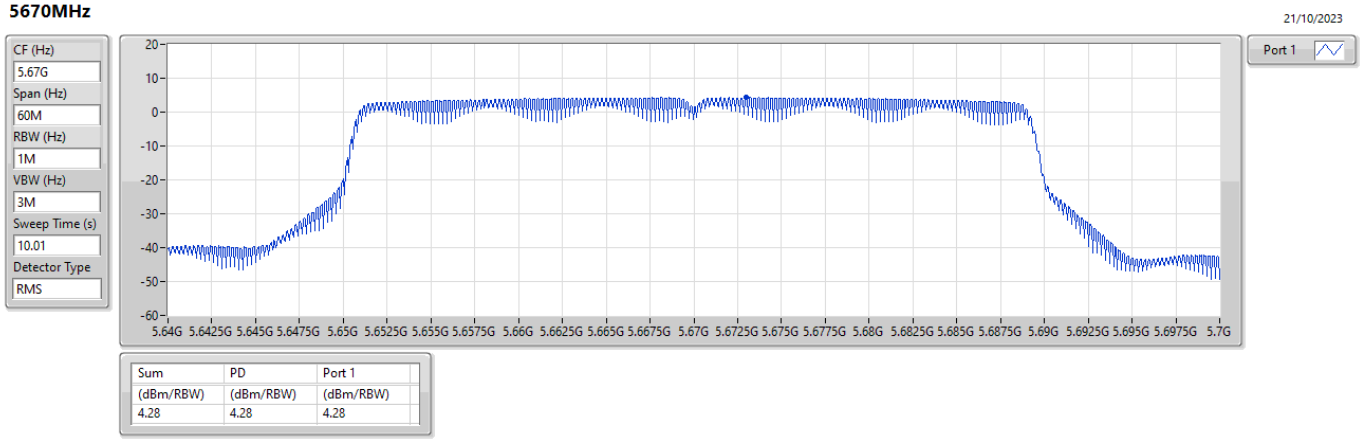
5550MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.52	4.52	4.52

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

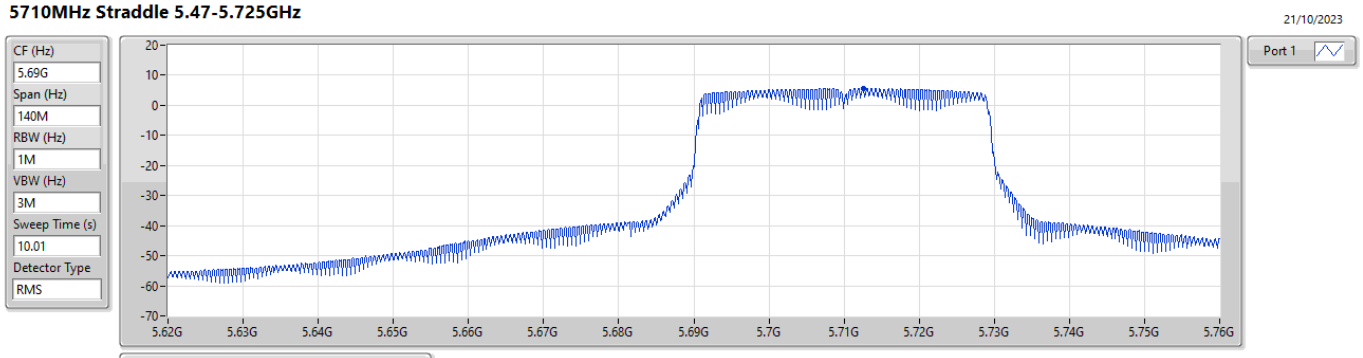
5670MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.28	4.28	4.28

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

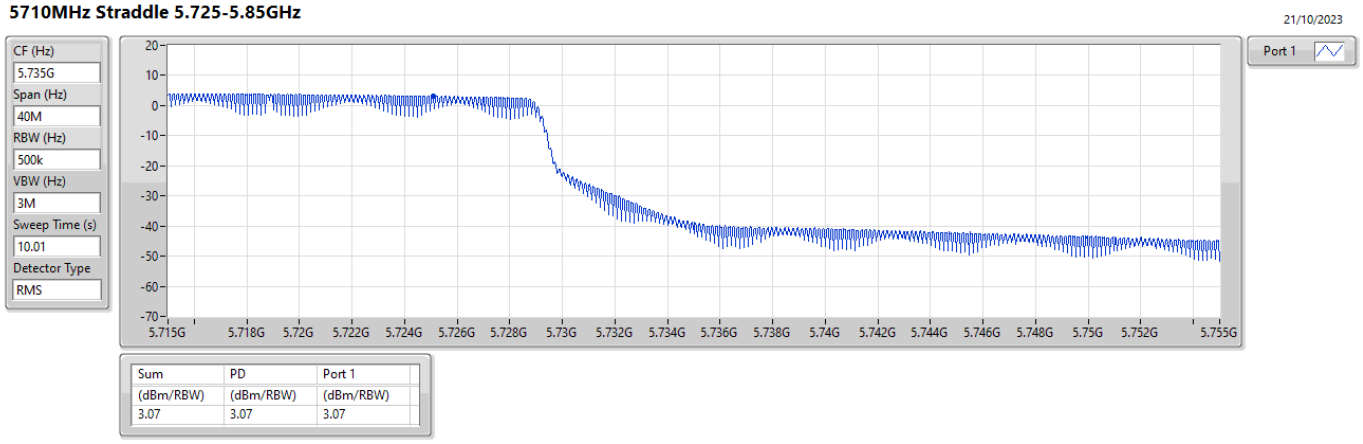
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.58	5.58	5.58

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

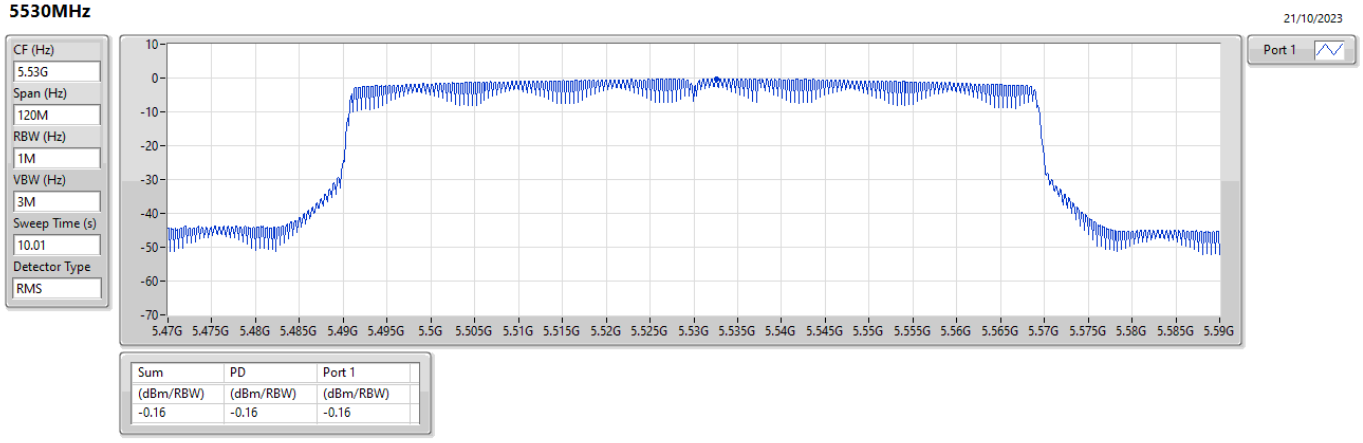
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.07	3.07	3.07

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

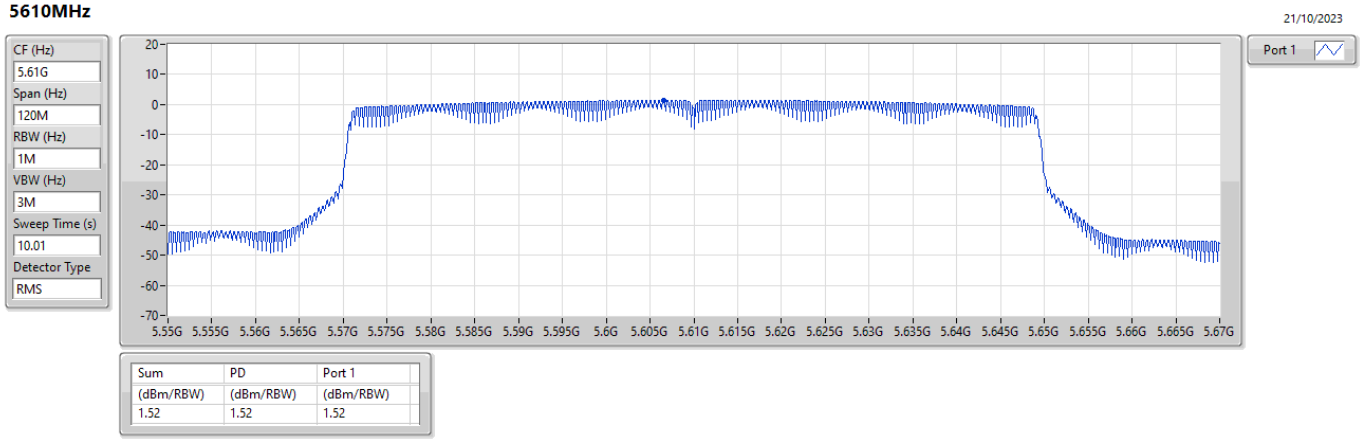
5530MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.16	-0.16	-0.16

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

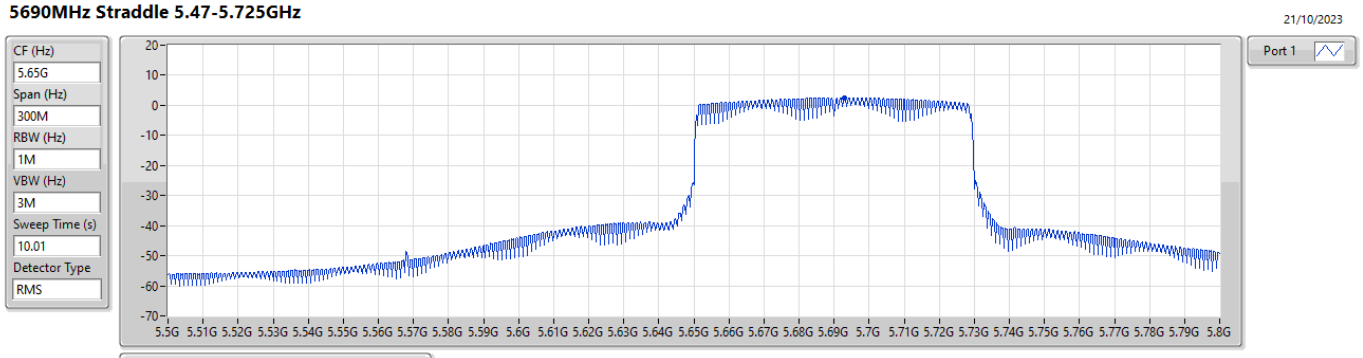
5610MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.52	1.52	1.52

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

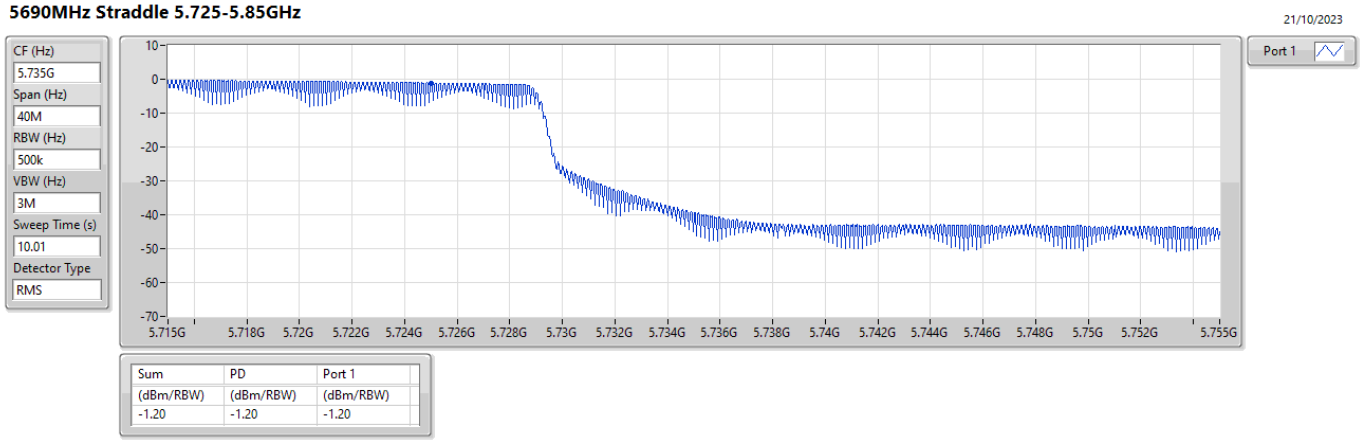
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.57	2.57	2.57

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

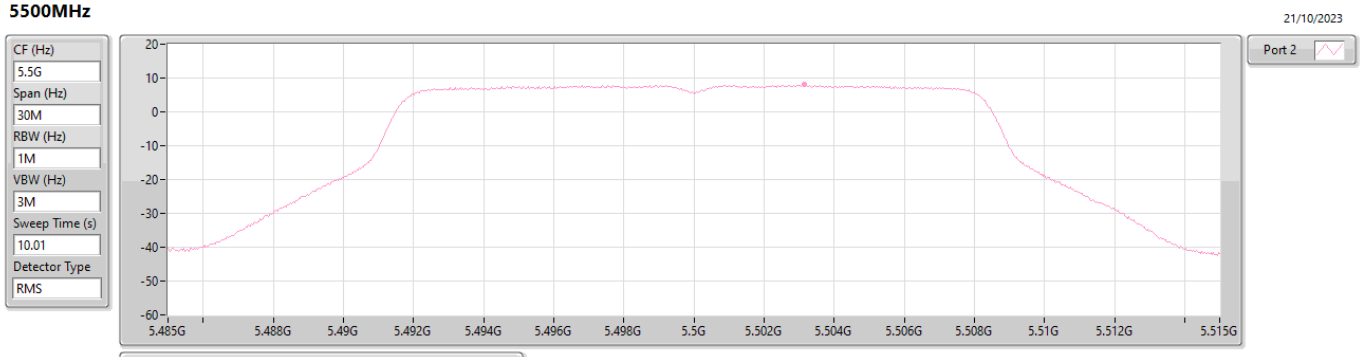
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.20	-1.20	-1.20

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

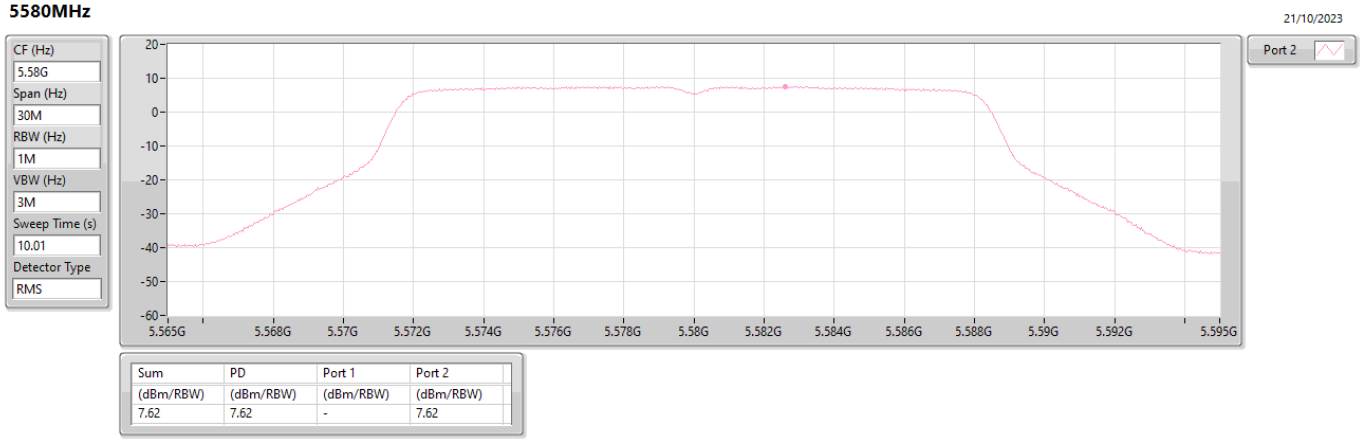
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.98	7.98	-	7.98

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

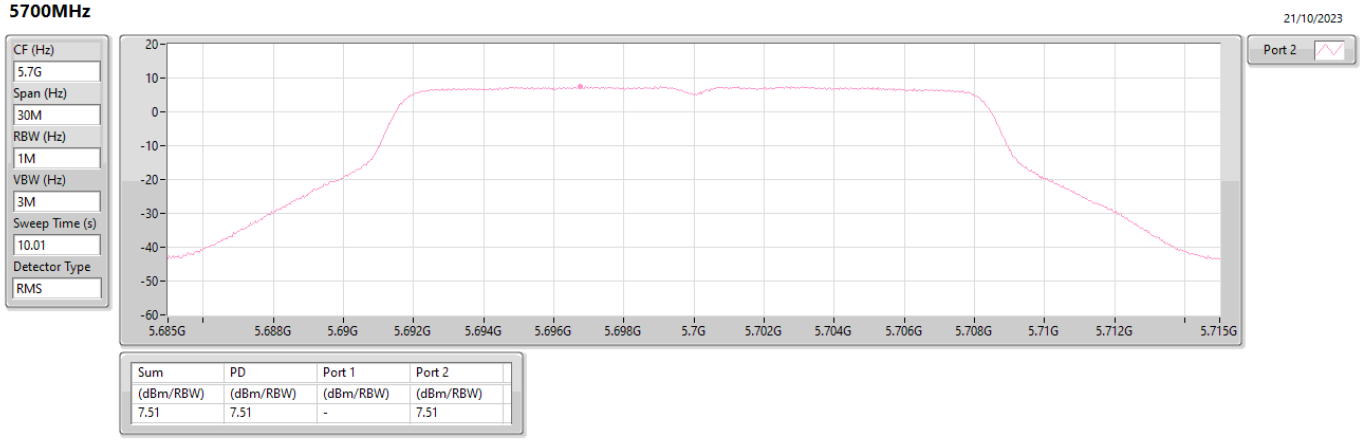
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.62	7.62	-	7.62

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

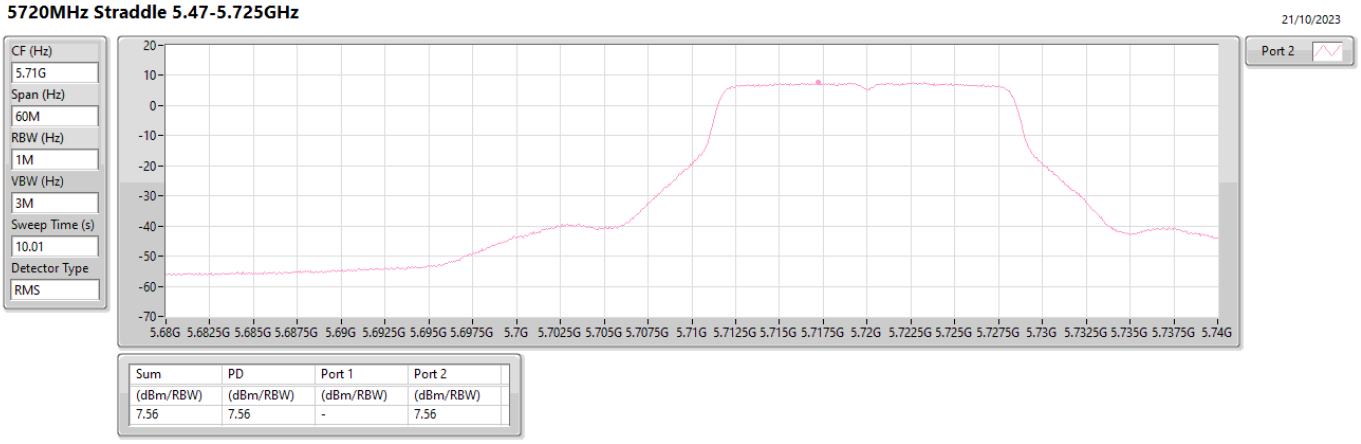
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.51	7.51	-	7.51

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

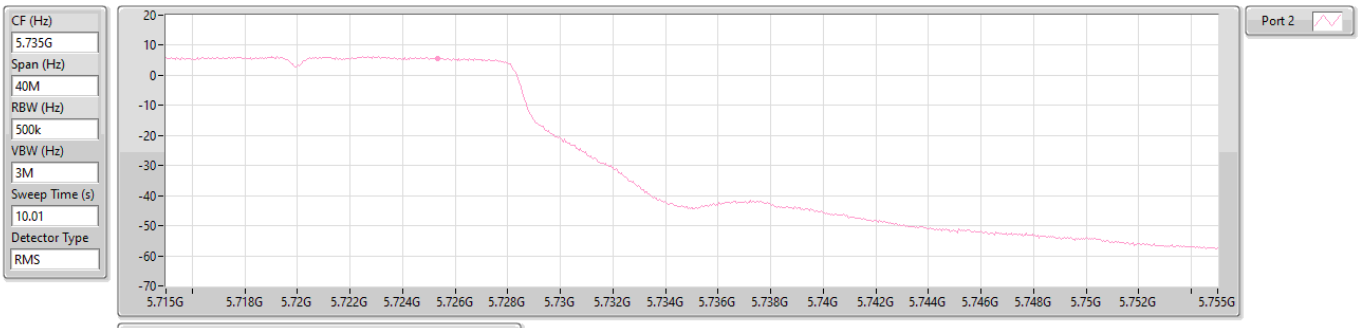
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.56	7.56	-	7.56

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

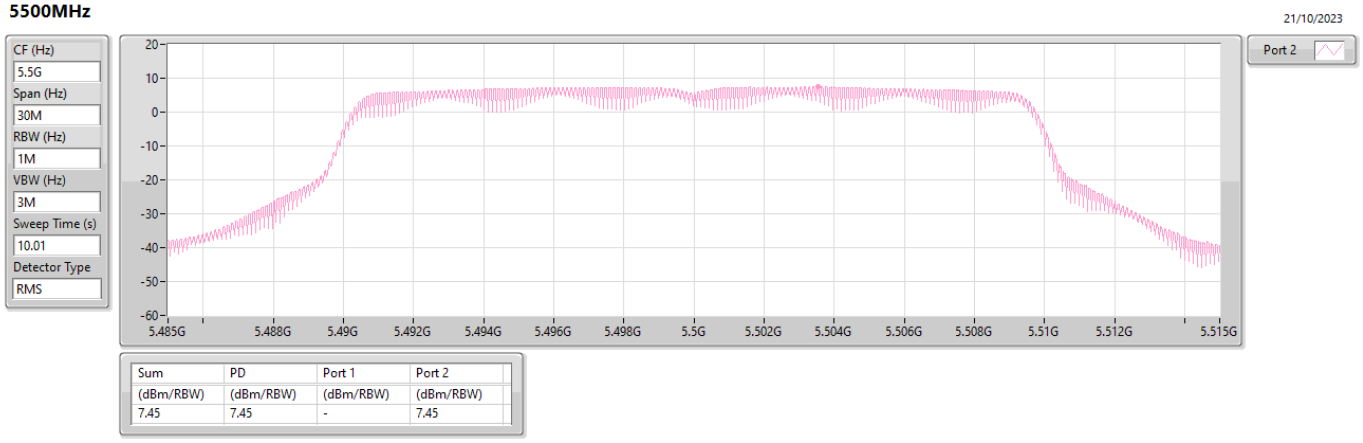
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	-	5.73

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

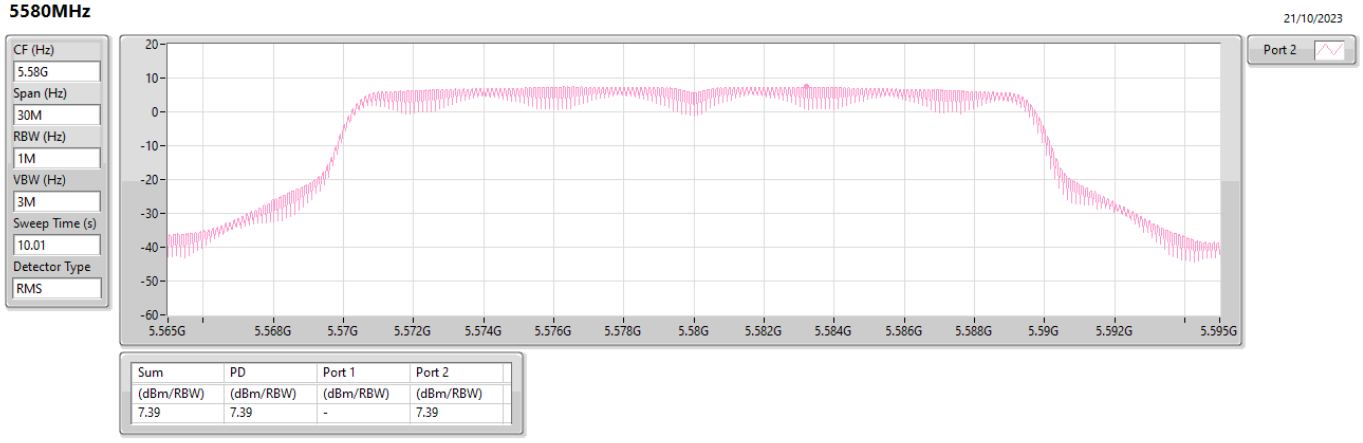
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.45	7.45	-	7.45

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

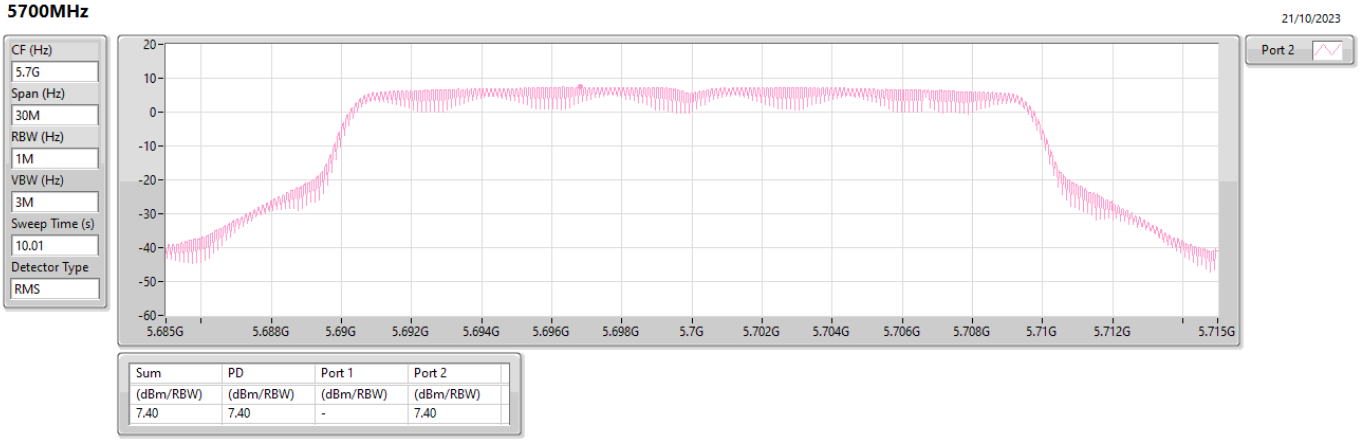
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.39	7.39	-	7.39

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

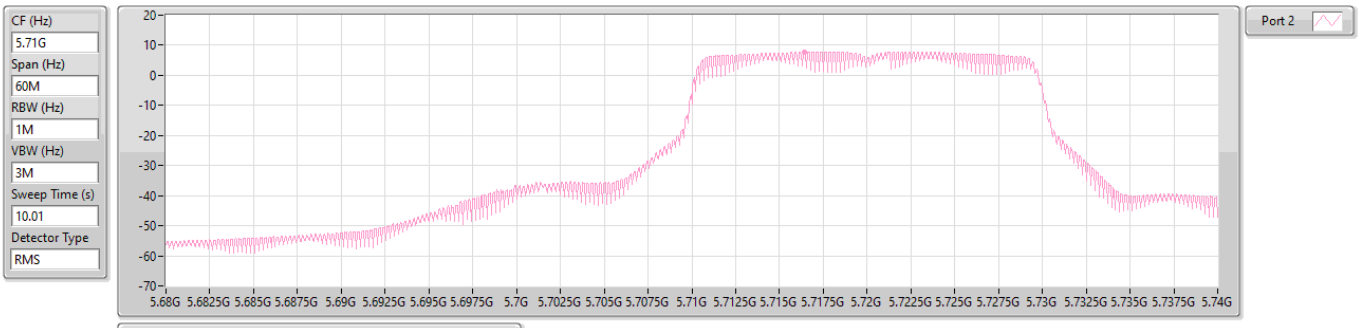
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.40	7.40	-	7.40

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

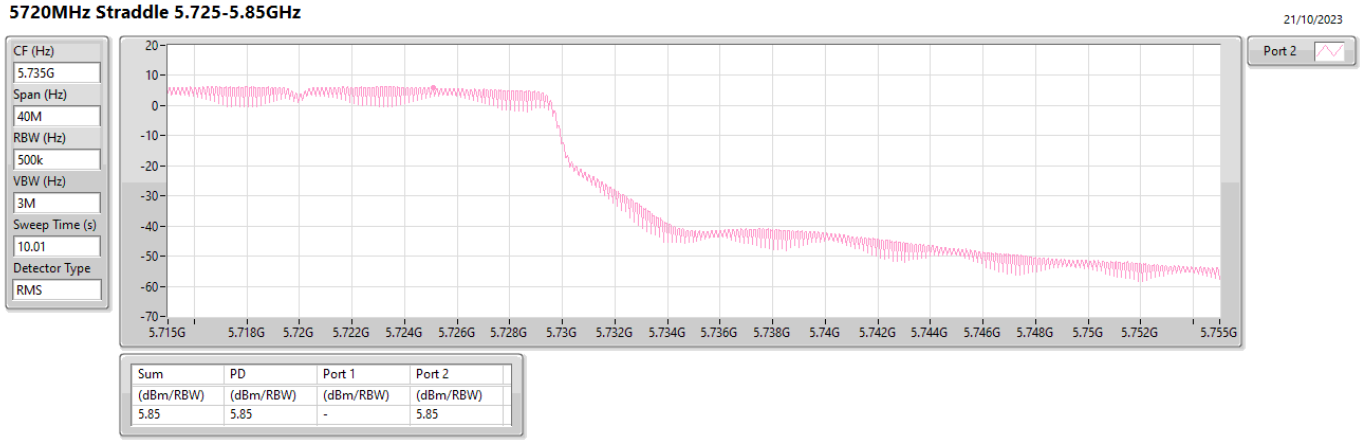
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.80	7.80	-	7.80

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **PSD**

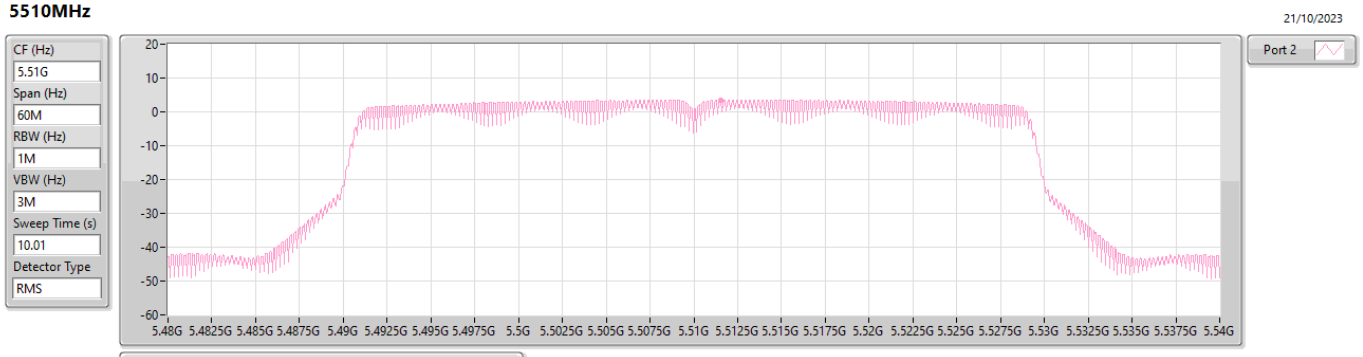
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.85	5.85	-	5.85

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

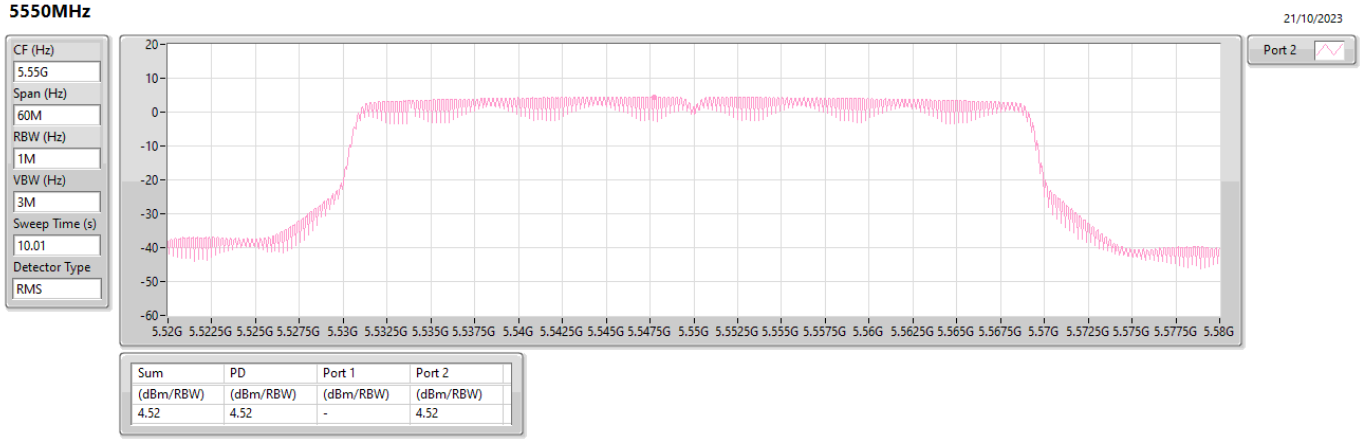
5510MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.57	3.57	-	3.57

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

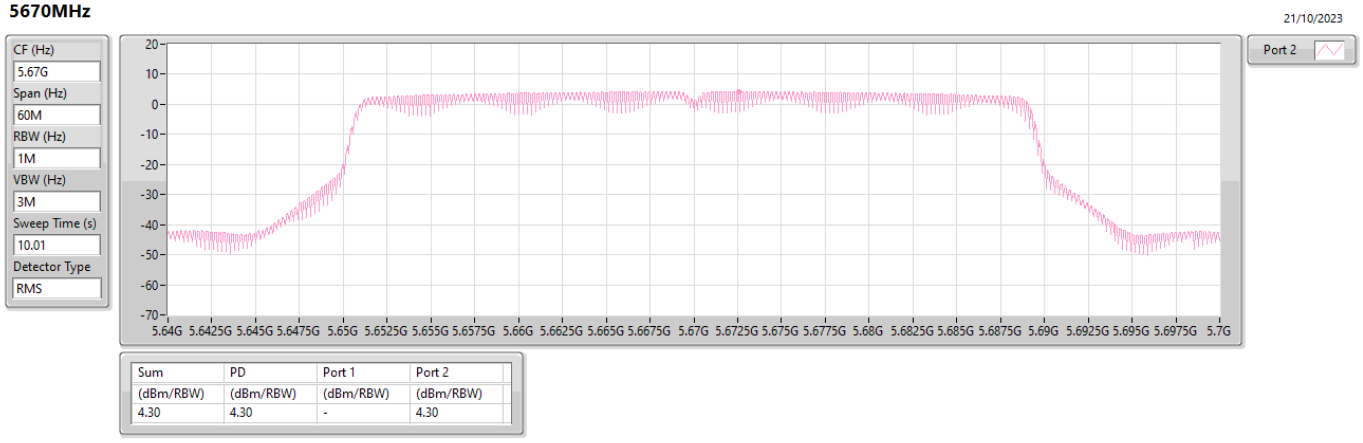
5550MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.52	4.52	-	4.52

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

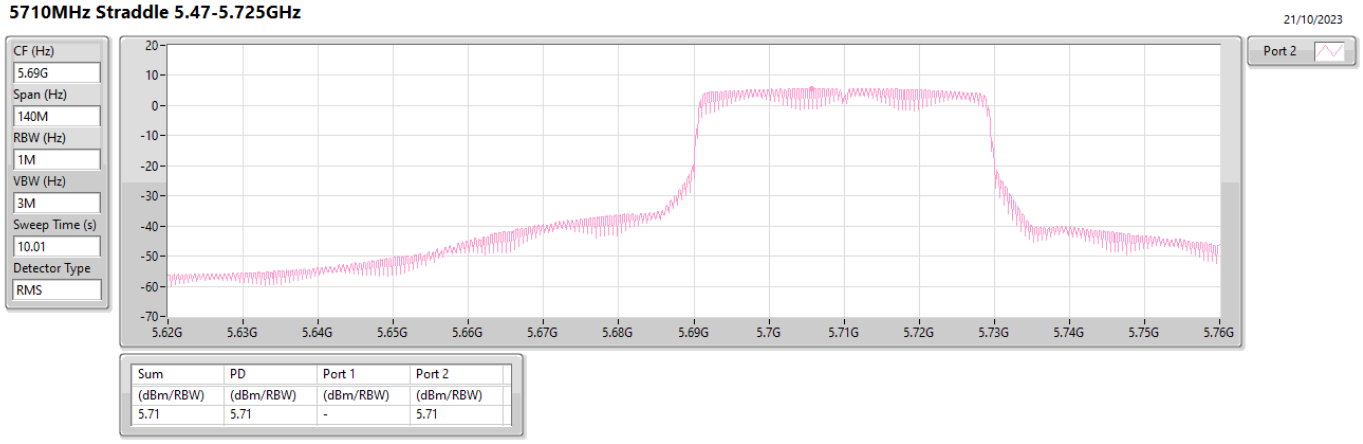
5670MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.30	4.30	-	4.30

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

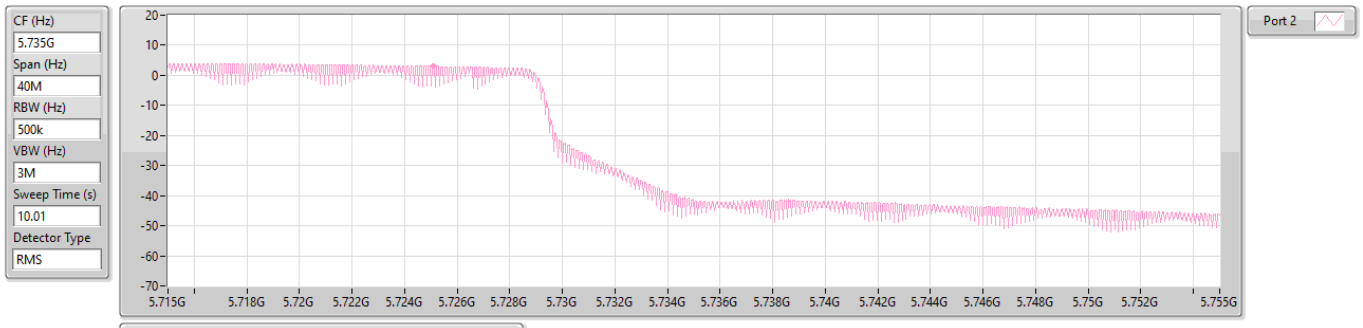
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.71	5.71	-	5.71

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_1TX **PSD**

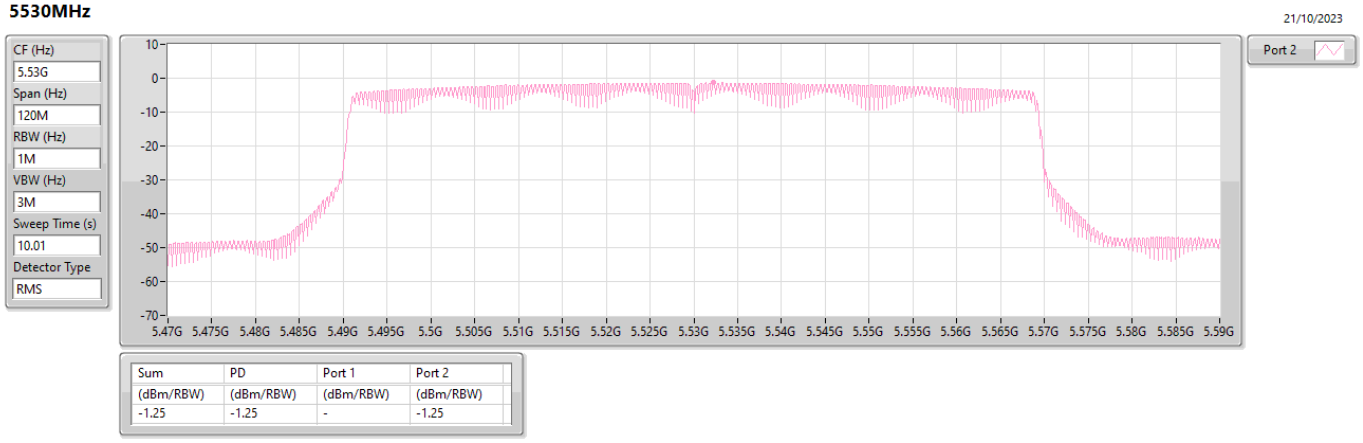
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.01	3.01	-	3.01

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

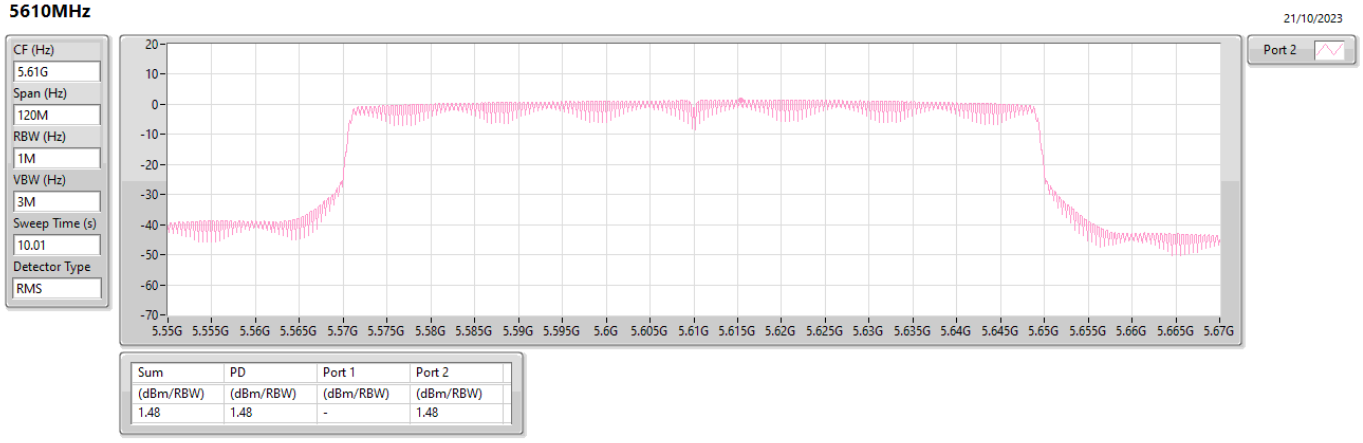
5530MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.25	-1.25	-	-1.25

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

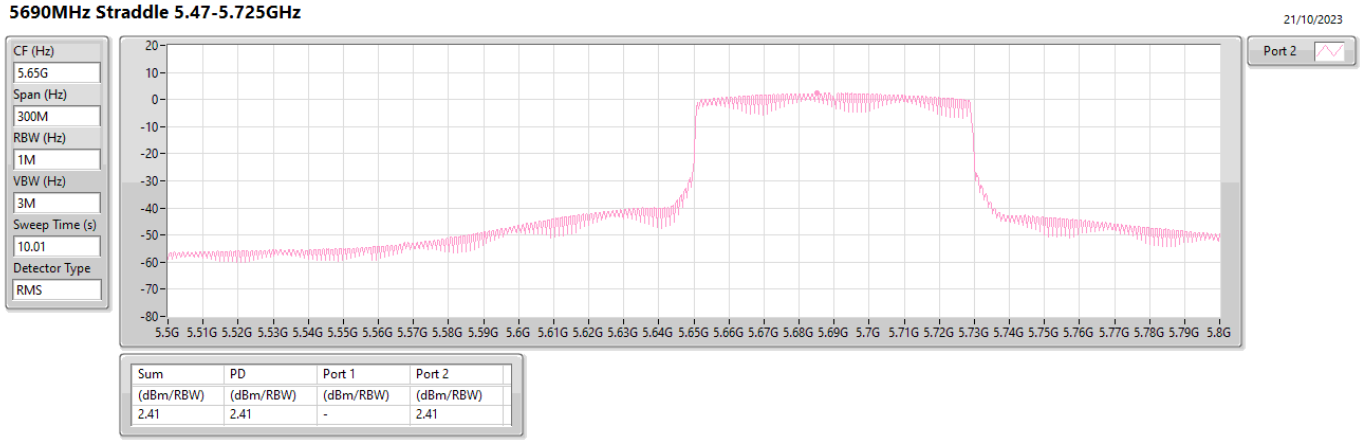
5610MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.48	1.48	-	1.48

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

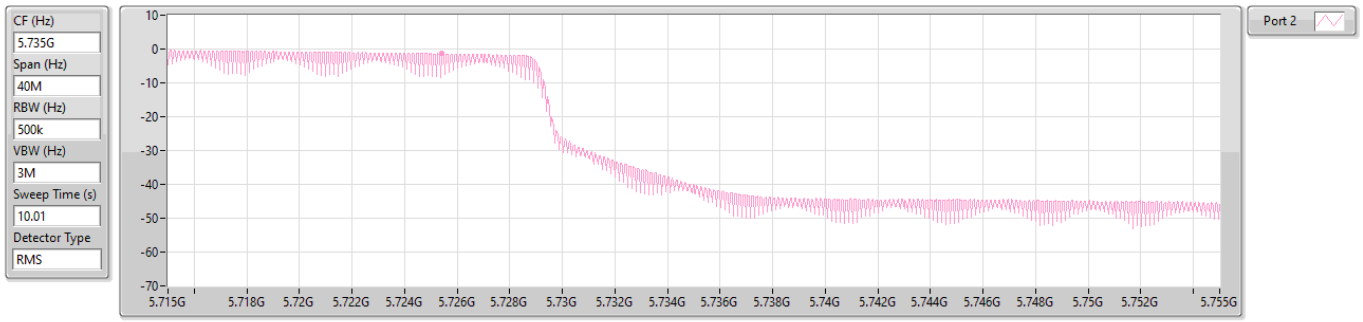
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.41	2.41	-	2.41

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_1TX **PSD**

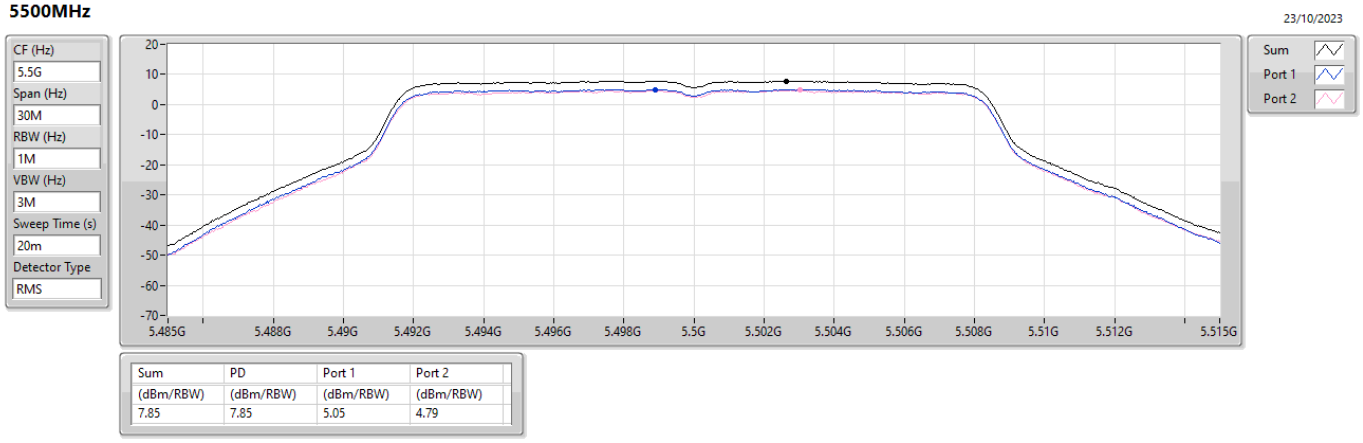
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.34	-1.34	-	-1.34

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

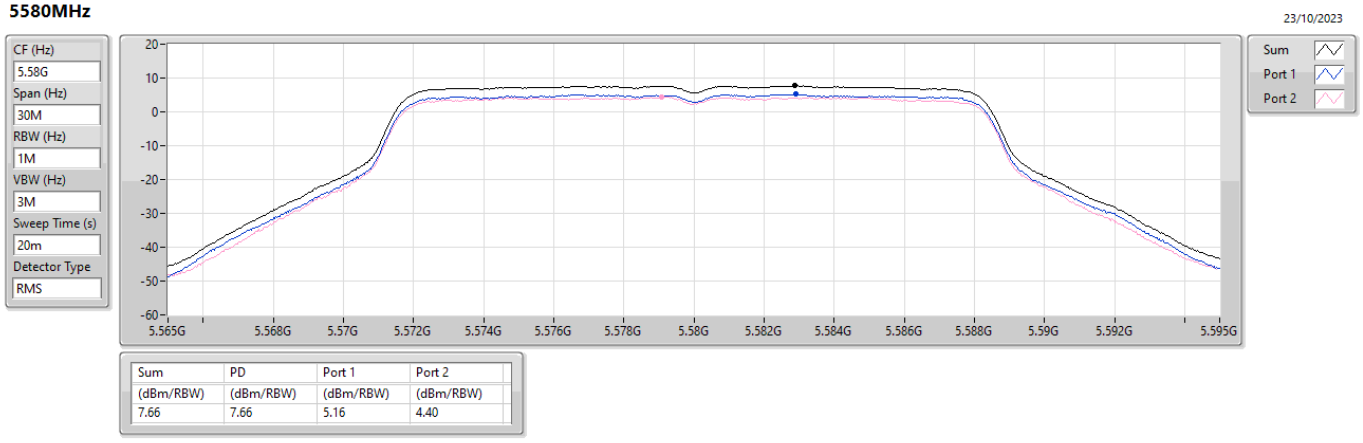
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.85	7.85	5.05	4.79

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

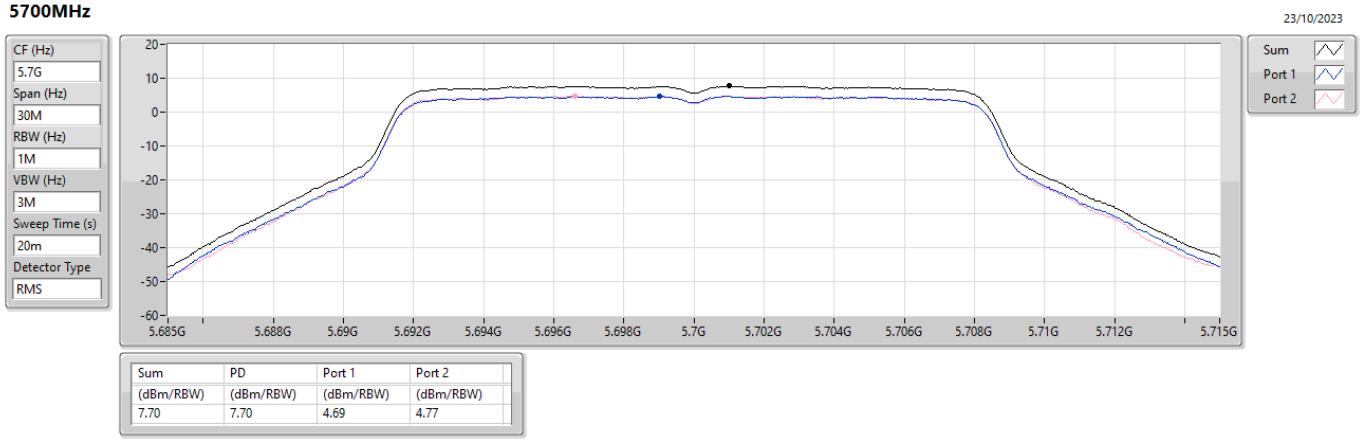
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.66	7.66	5.16	4.40

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

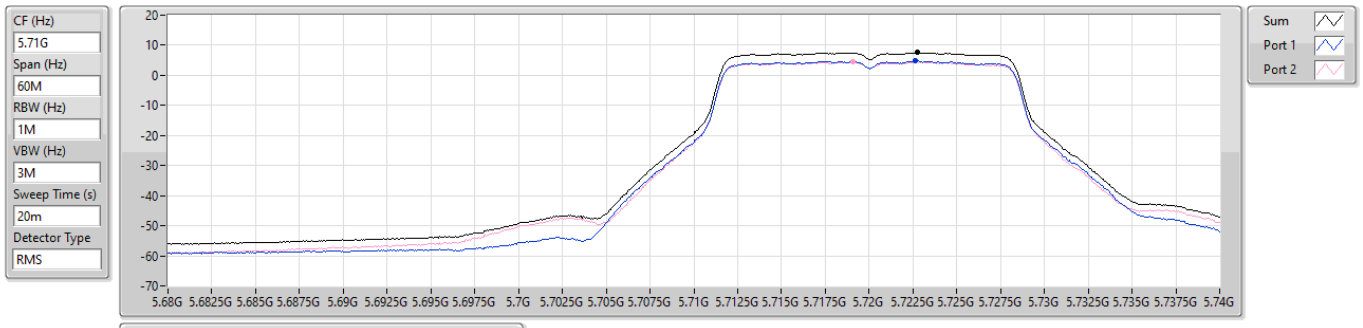
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.70	7.70	4.69	4.77

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

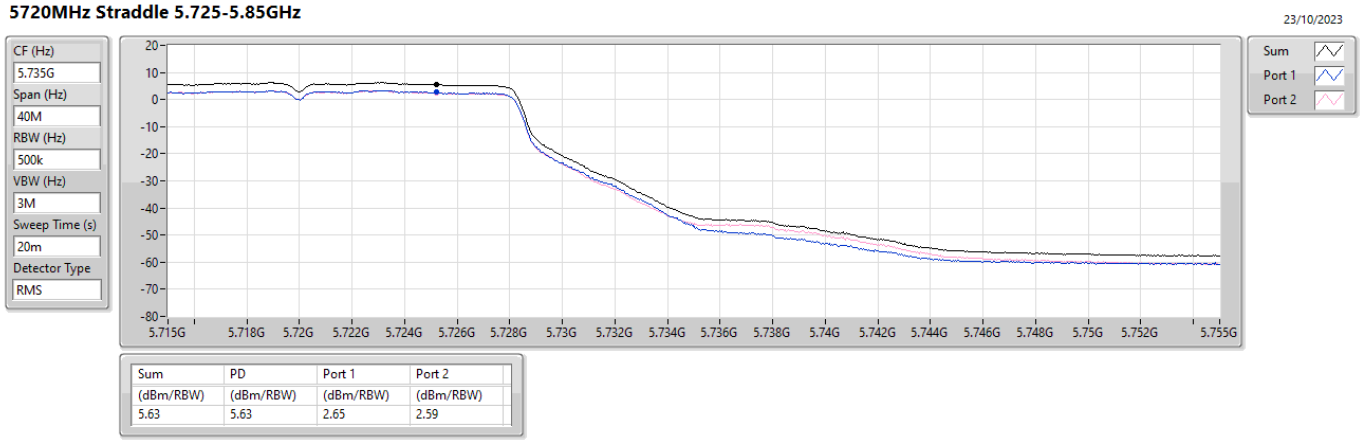
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.59	7.59	4.78	4.48

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX **PSD**

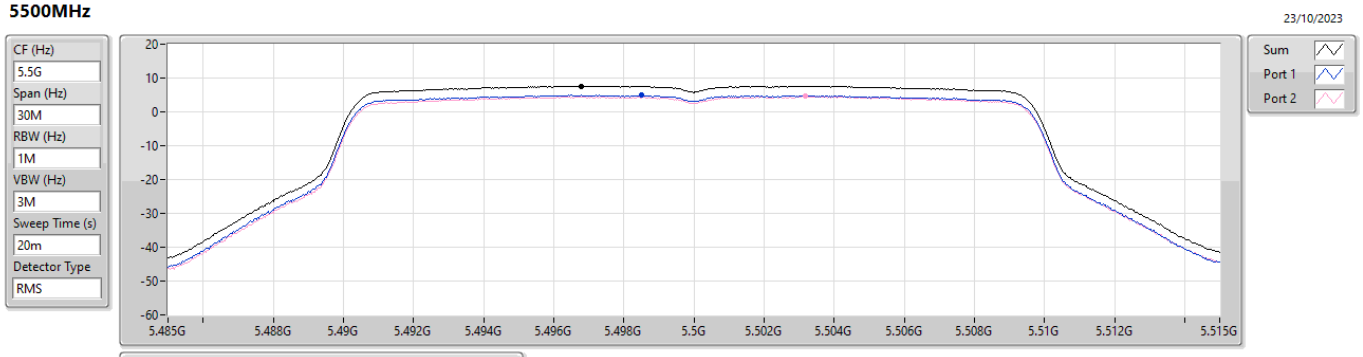
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.63	5.63	2.65	2.59

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

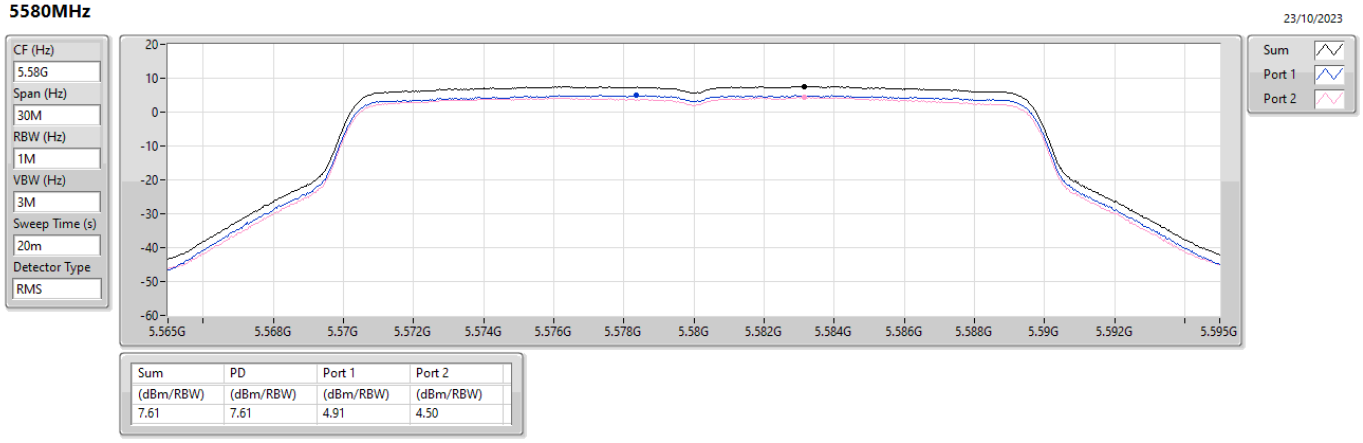
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.63	7.63	4.94	4.56

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

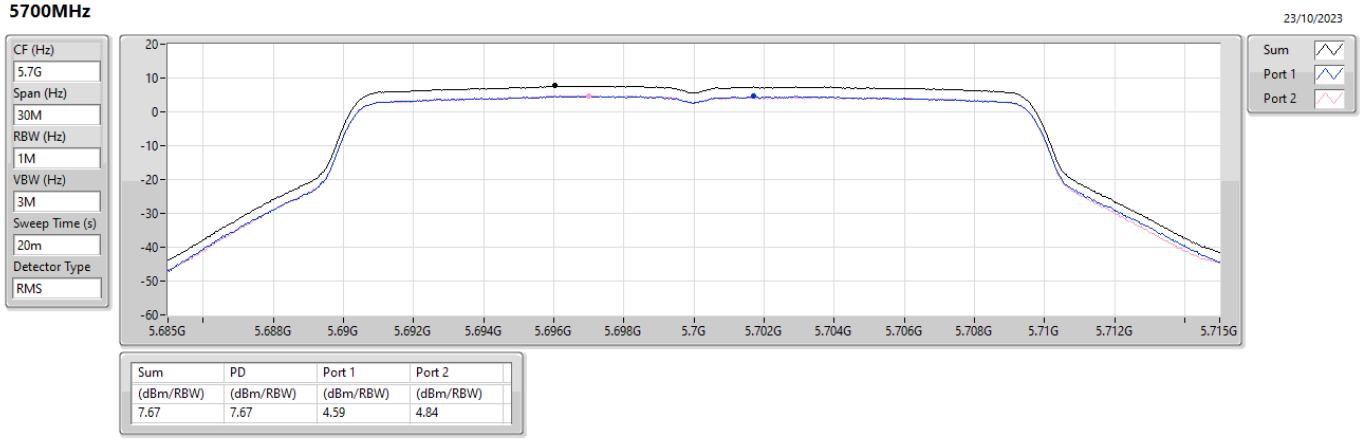
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.61	7.61	4.91	4.50

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

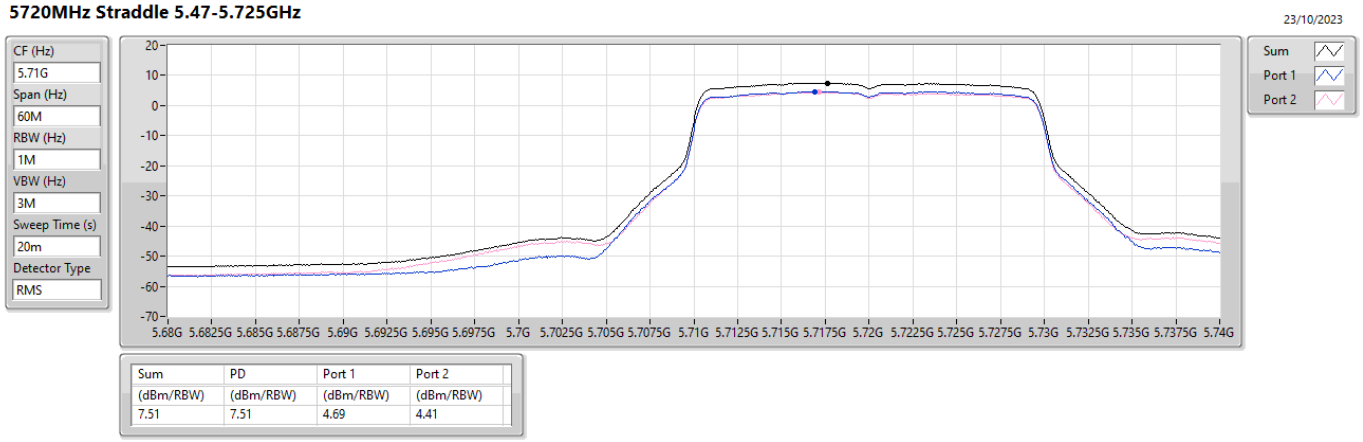
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.67	7.67	4.59	4.84

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

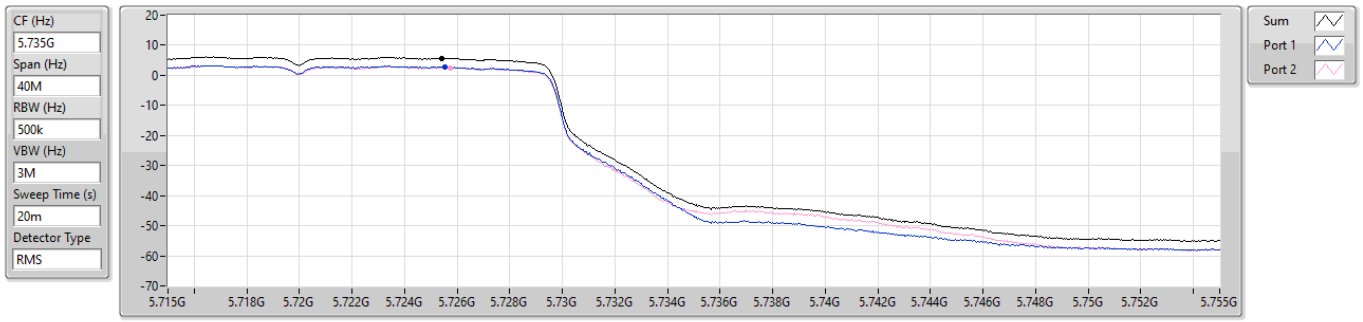
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.51	7.51	4.69	4.41

5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

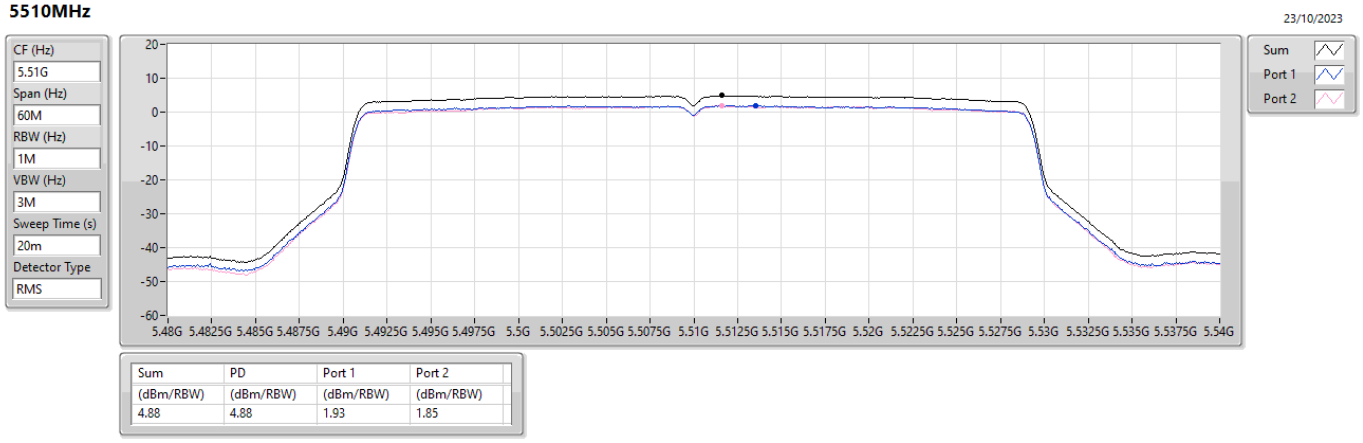
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.67	5.67	2.75	2.58

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

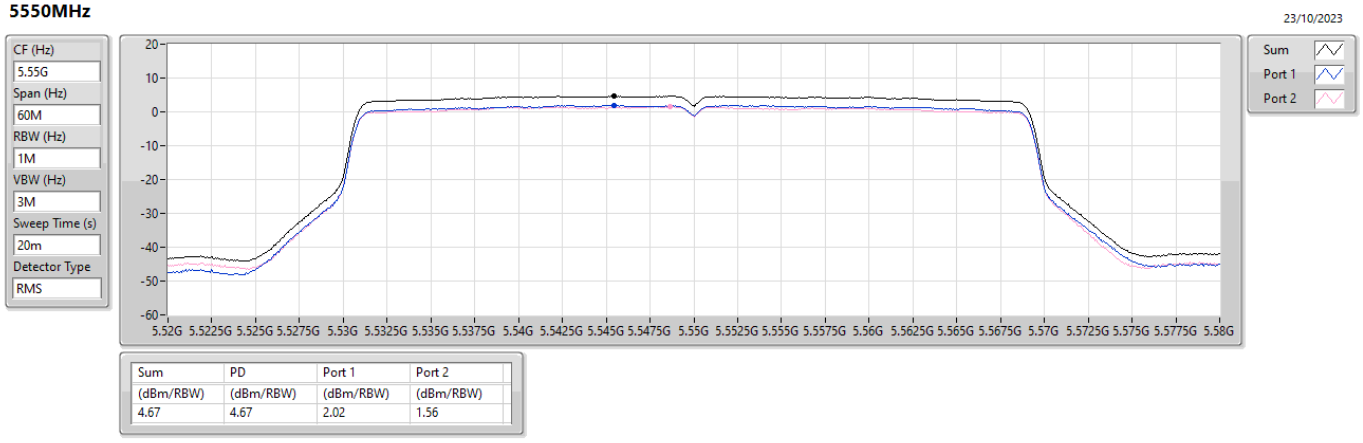
5510MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.88	4.88	1.93	1.85

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

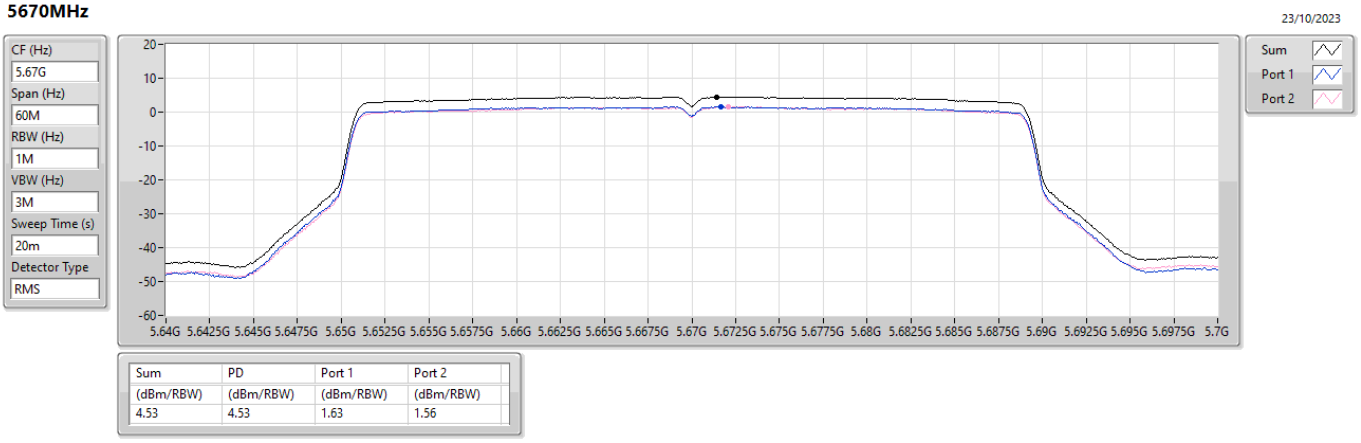
5550MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.67	4.67	2.02	1.56

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

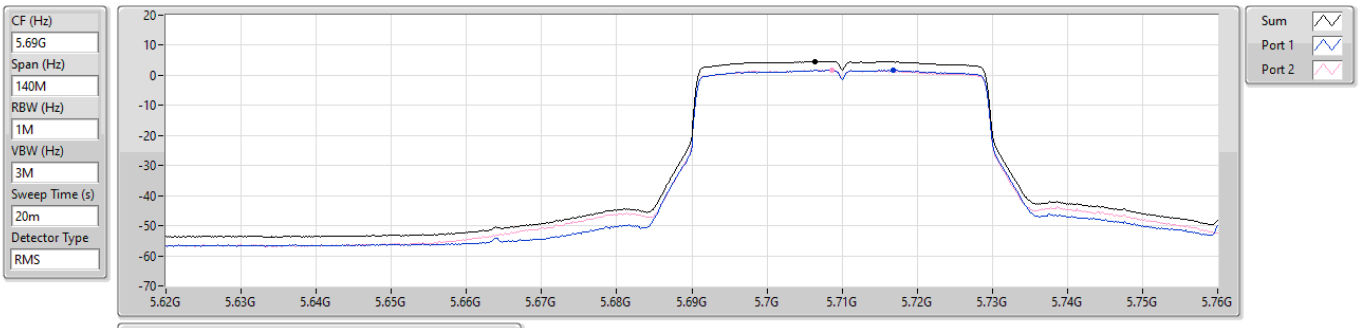
5670MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.53	4.53	1.63	1.56

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

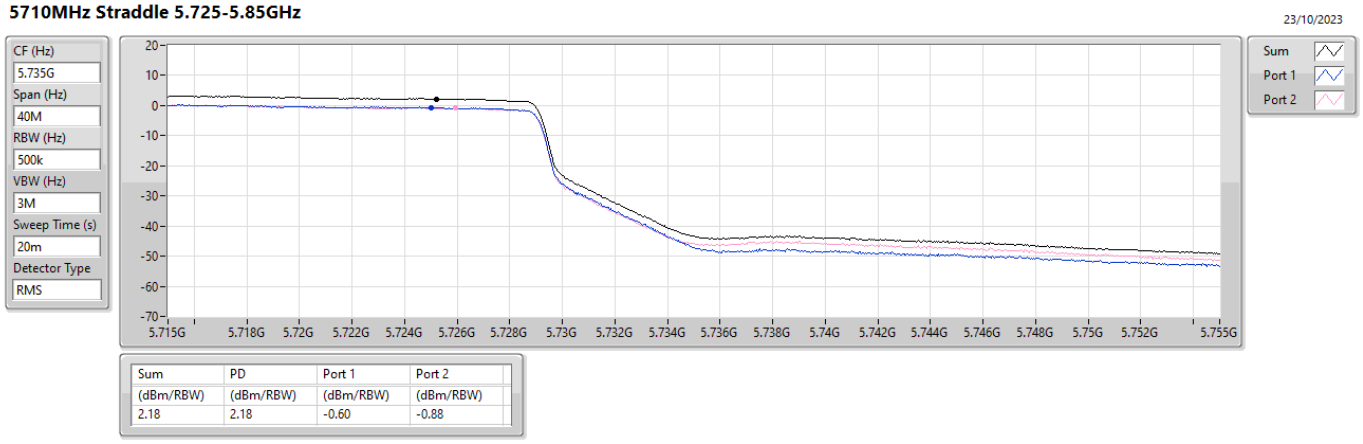
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.67	4.67	1.69	1.73

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

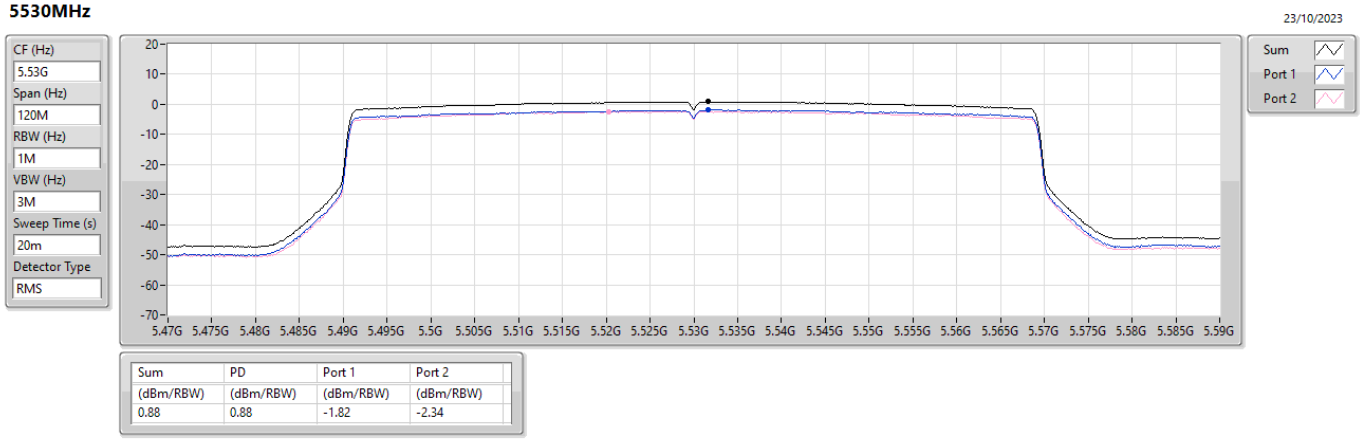
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.18	2.18	-0.60	-0.88

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

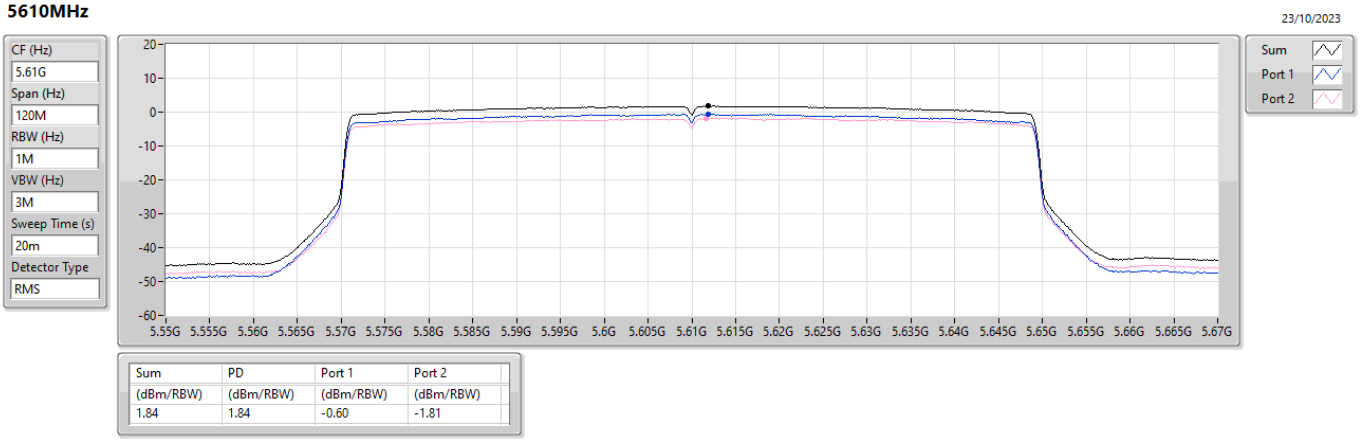
5530MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.88	0.88	-1.82	-2.34

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

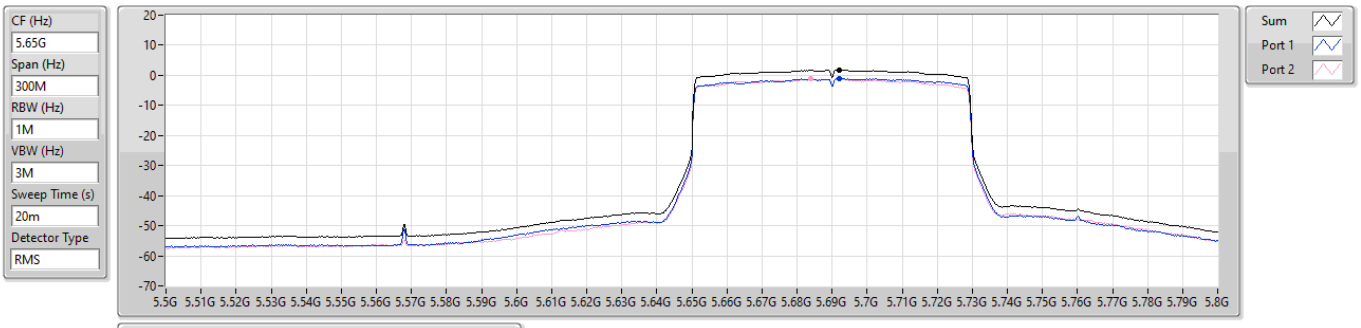
5610MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.84	1.84	-0.60	-1.81

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

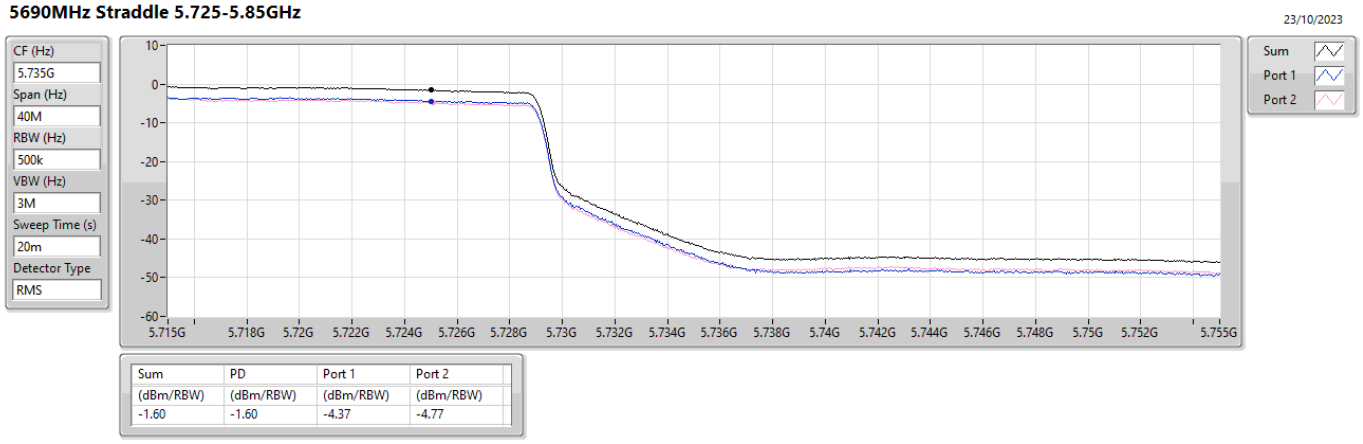
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.84	1.84	-1.09	-1.23

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX **PSD**

5690MHz Straddle 5.725-5.85GHz

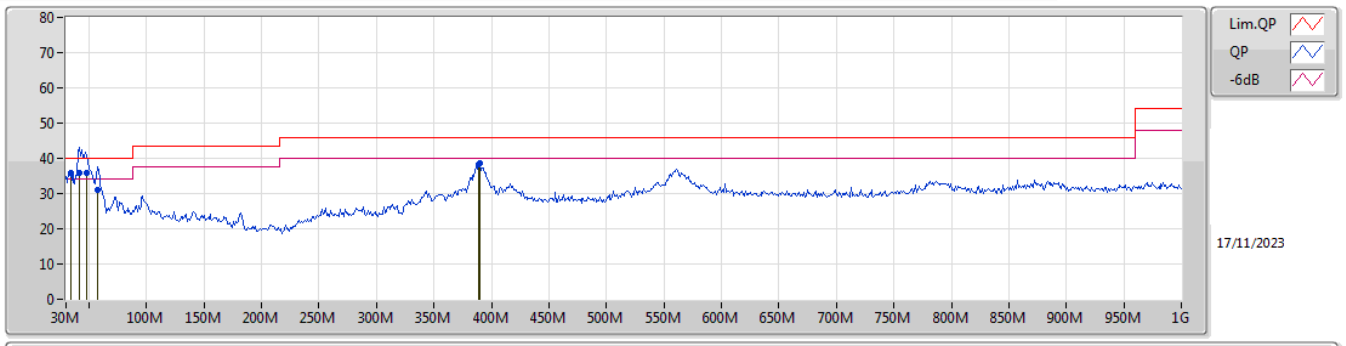


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.60	-1.60	-4.37	-4.77

Summary

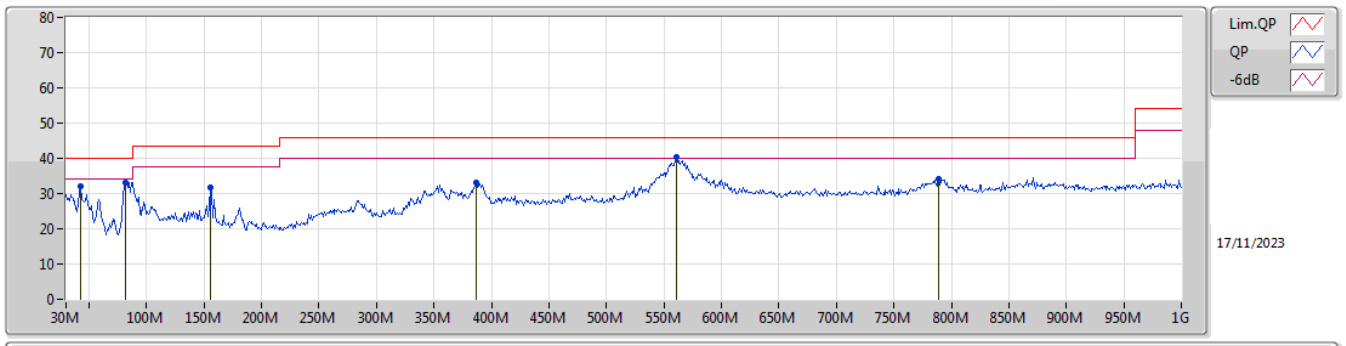
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	41.64M	35.99	40.00	-4.01	Vertical

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	33.88M	35.92	40.00	-4.08	-21.86	3	Vertical	124	1.00	-	57.78	21.76	0.70	44.32
QP	41.64M	35.99	40.00	-4.01	-26.19	3	Vertical	354	1.00	"Worst"	62.18	17.40	0.78	44.37
QP	48.43M	35.95	40.00	-4.05	-29.85	3	Vertical	360	1.00	-	65.80	13.88	0.84	44.57
QP	57.16M	31.09	40.00	-8.91	-31.91	3	Vertical	0	2.00	-	63.00	11.80	0.91	44.62
PK	388.9M	38.41	46.00	-7.59	-21.61	3	Vertical	360	1.50	-	60.02	20.35	2.19	44.15
PK	389.87M	38.62	46.00	-7.38	-21.56	3	Vertical	357	1.50	-	60.18	20.39	2.19	44.14

Mode 3



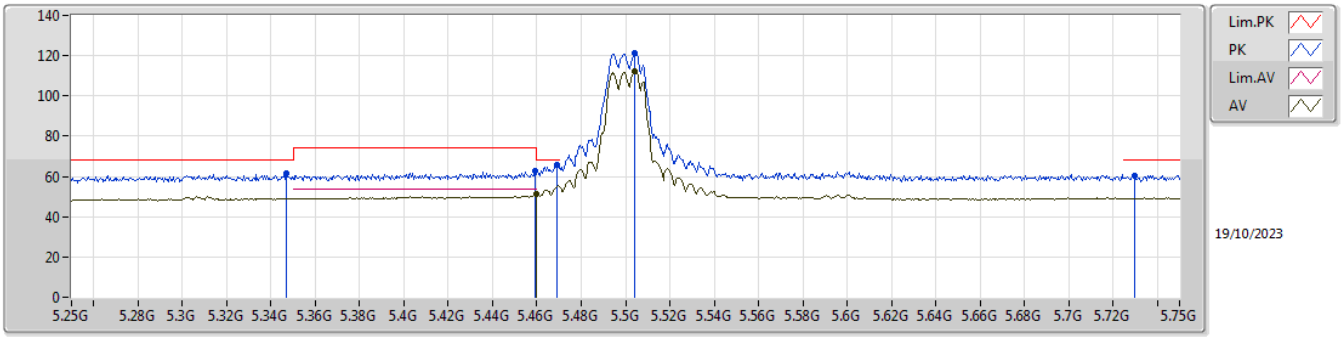
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	42.61M	32.03	40.00	-7.97	-26.73	3	Horizontal	89	2.00	-	58.76	16.87	0.80	44.40
PK	81.41M	33.12	40.00	-6.88	-31.23	3	Horizontal	353	3.00	-	64.35	12.35	1.01	44.59
PK	155.13M	31.84	43.50	-11.66	-27.93	3	Horizontal	23	1.50	-	59.77	15.25	1.37	44.55
PK	386.96M	33.08	46.00	-12.92	-21.71	3	Horizontal	204	1.00	-	54.79	20.26	2.18	44.15
PK	560.59M	40.45	46.00	-5.55	-17.45	3	Horizontal	86	1.25	"Worst"	57.90	23.81	2.57	43.83
PK	788.54M	34.03	46.00	-11.97	-15.57	3	Horizontal	228	1.00	-	49.60	24.93	3.02	43.52

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	5.725G	68.19	68.20	-0.01	3	Horizontal	5	1.94	22

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

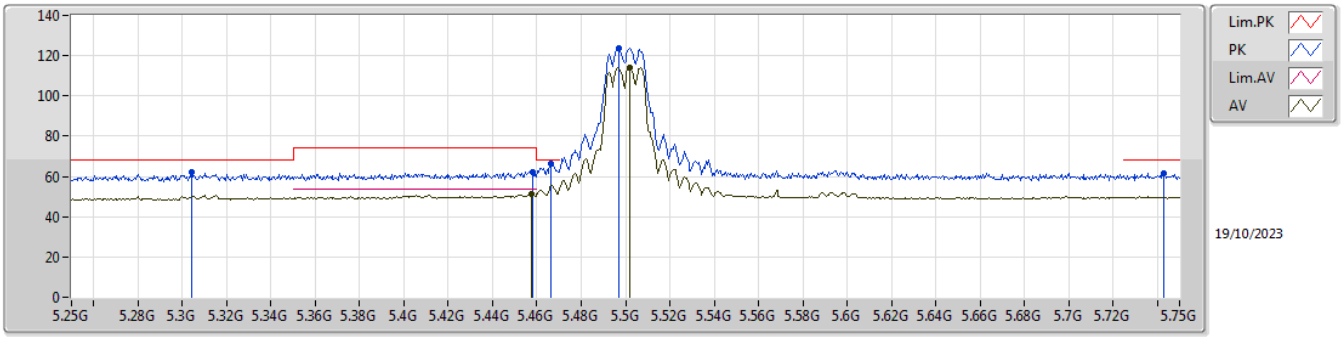


EUT Y_2TX
SET 21.5
21.5
2.25

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	5.347G	61.31	68.20	-6.89	53.26	3	Vertical	2	1.63	21.5	34.49	8.44	34.88
PK	5.459G	62.65	74.00	-11.35	54.37	3	Vertical	2	1.63	21.5	34.60	8.57	34.89
AV	5.4595G	51.34	54.00	-2.66	43.06	3	Vertical	2	1.63	21.5	34.60	8.57	34.89
PK	5.469G	65.95	68.20	-2.25	57.68	3	Vertical	2	1.63	21.5	34.60	8.57	34.90
PK	5.504G	121.39	Inf	-Inf	113.09	3	Vertical	2	1.63	21.5	34.60	8.60	34.90
AV	5.504G	112.05	Inf	-Inf	103.75	3	Vertical	2	1.63	21.5	34.60	8.60	34.90
PK	5.7295G	60.49	68.20	-7.71	52.63	3	Vertical	2	1.63	21.5	34.20	8.67	35.01

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

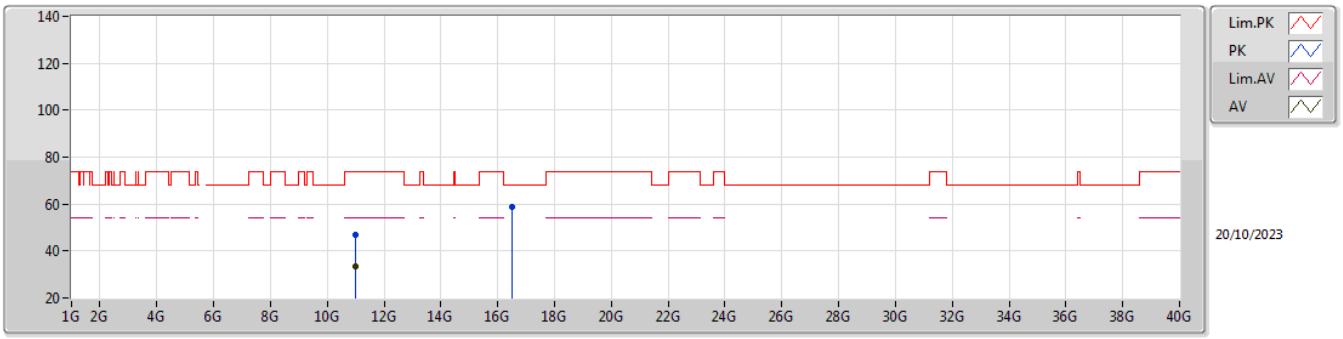


EUT Y_2TX
SET 21.5
15\19\21\22\21.5
4.60\3.86\2.42\-0.19\2.03

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	5.304G	62.38	68.20	-5.82	54.56	3	Horizontal	6	1.60	21.5	34.32	8.37	34.87
PK	5.458G	62.31	74.00	-11.69	54.03	3	Horizontal	6	1.60	21.5	34.60	8.57	34.89
AV	5.4575G	51.38	54.00	-2.62	43.10	3	Horizontal	6	1.60	21.5	34.60	8.57	34.89
PK	5.4665G	66.17	68.20	-2.03	57.90	3	Horizontal	6	1.60	21.5	34.60	8.57	34.90
PK	5.497G	123.86	Inf	-Inf	115.57	3	Horizontal	6	1.60	21.5	34.60	8.59	34.90
AV	5.502G	114.05	Inf	-Inf	105.75	3	Horizontal	6	1.60	21.5	34.60	8.60	34.90
PK	5.743G	61.43	68.20	-6.77	53.58	3	Horizontal	6	1.60	21.5	34.20	8.67	35.02

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

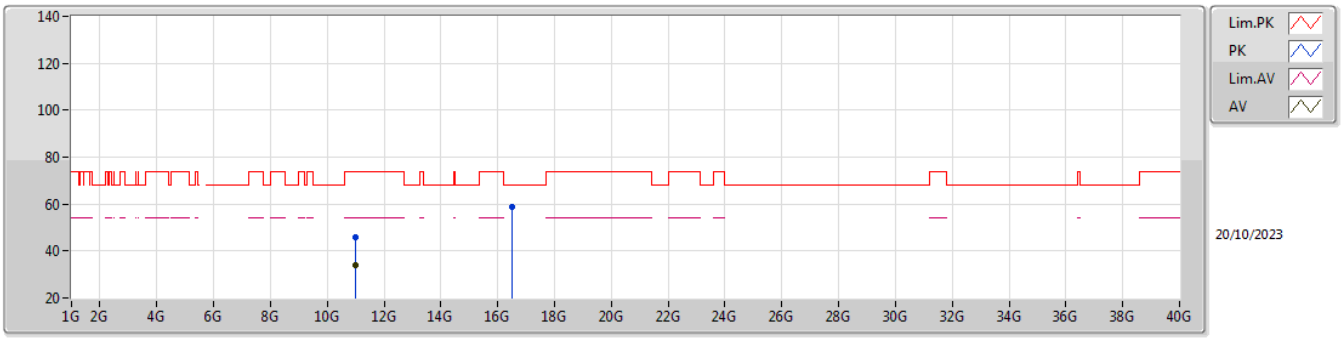


EUT Y_2TX
SET 21.5

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	10.993G	46.88	74.00	-27.12	38.83	3	Vertical	103	1.05	21.5	38.29	12.86	43.10
AV	10.9876G	33.43	54.00	-20.57	25.38	3	Vertical	103	1.05	21.5	38.29	12.86	43.10
PK	16.49296G	58.70	68.20	-9.50	40.63	3	Vertical	2	1.12	21.5	37.91	21.77	41.61

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

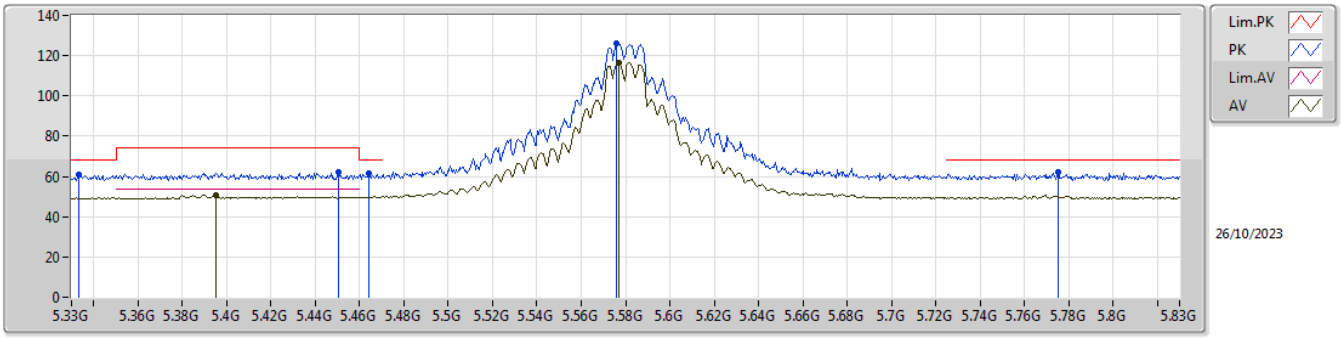


EUT Y_2TX
SET 21.5

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	11G	45.68	74.00	-28.32	37.61	3	Horizontal	316	1.80	21.5	38.30	12.87	43.10
AV	11.00004G	34.05	54.00	-19.95	25.98	3	Horizontal	316	1.80	21.5	38.30	12.87	43.10
PK	16.51888G	58.85	68.20	-9.35	40.67	3	Horizontal	23	2.38	21.5	37.99	21.81	41.62

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

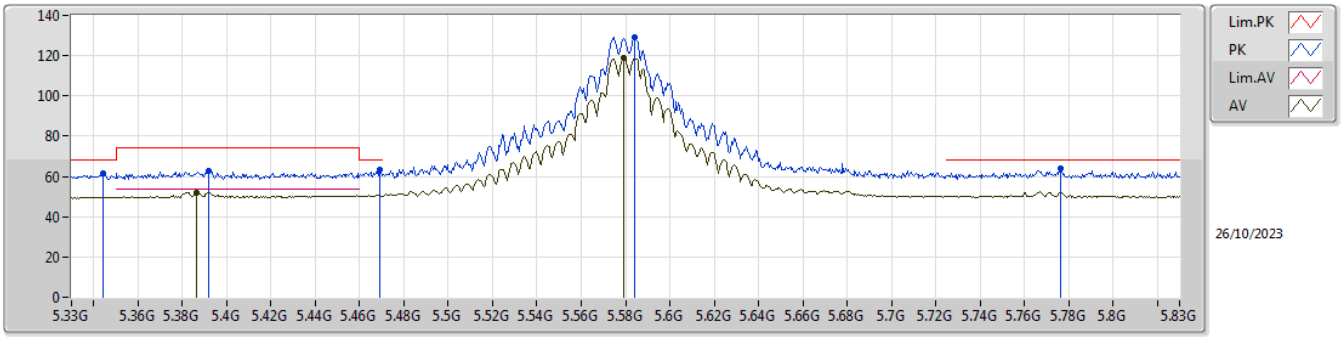


EUT Y_2TX
SET 25

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	5.3335G	60.71	68.20	-7.49	52.74	3	Vertical	5	1.62	-	34.43	8.42	34.88
PK	5.4505G	62.30	74.00	-11.70	54.03	3	Vertical	5	1.62	-	34.60	8.56	34.89
AV	5.395G	50.77	54.00	-3.23	42.73	3	Vertical	5	1.62	-	34.41	8.52	34.89
PK	5.464G	61.39	68.20	-6.81	53.11	3	Vertical	5	1.62	-	34.60	8.57	34.89
PK	5.576G	125.96	Inf	-Inf	117.76	3	Vertical	5	1.62	-	34.50	8.64	34.94
AV	5.577G	116.72	Inf	-Inf	108.52	3	Vertical	5	1.62	-	34.49	8.65	34.94
PK	5.7755G	61.91	68.20	-6.29	54.01	3	Vertical	5	1.62	-	34.25	8.68	35.03

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

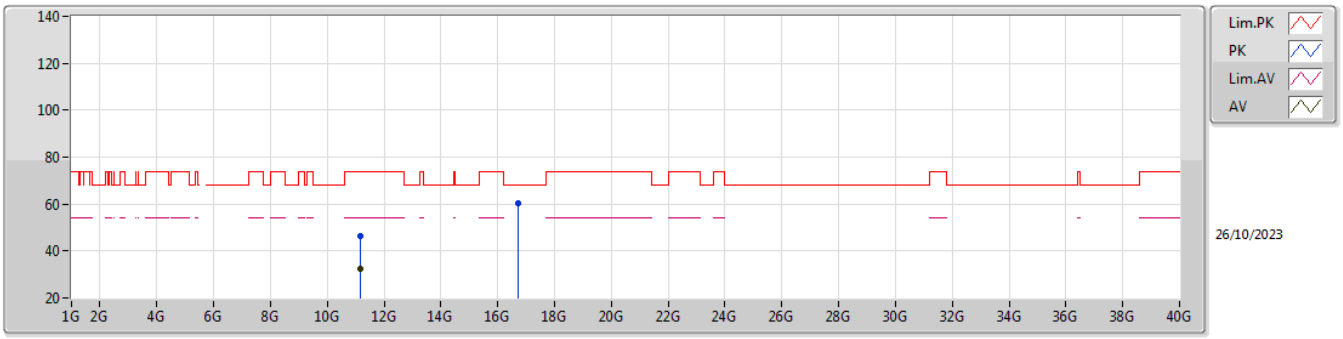


EUT Y_2TX
SET 25
15\19\21\22\22.5\23\23.5\24\24.5\25
4.43\3.70\3.44\3.15\2.78\2.76\2.61\2.66\2.3\1.85

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	5.344G	61.49	68.20	-6.71	53.46	3	Horizontal	8	1.49	-	34.48	8.43	34.88
PK	5.392G	62.77	74.00	-11.23	54.71	3	Horizontal	8	1.49	-	34.42	8.52	34.88
AV	5.3865G	52.15	54.00	-1.85	44.09	3	Horizontal	8	1.49	-	34.43	8.51	34.88
PK	5.469G	63.57	68.20	-4.63	55.30	3	Horizontal	8	1.49	-	34.60	8.57	34.90
PK	5.584G	128.92	Inf	-Inf	120.75	3	Horizontal	8	1.49	-	34.46	8.65	34.94
AV	5.579G	119.12	Inf	-Inf	110.93	3	Horizontal	8	1.49	-	34.48	8.65	34.94
PK	5.7765G	63.95	68.20	-4.25	56.05	3	Horizontal	8	1.49	-	34.25	8.68	35.03

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

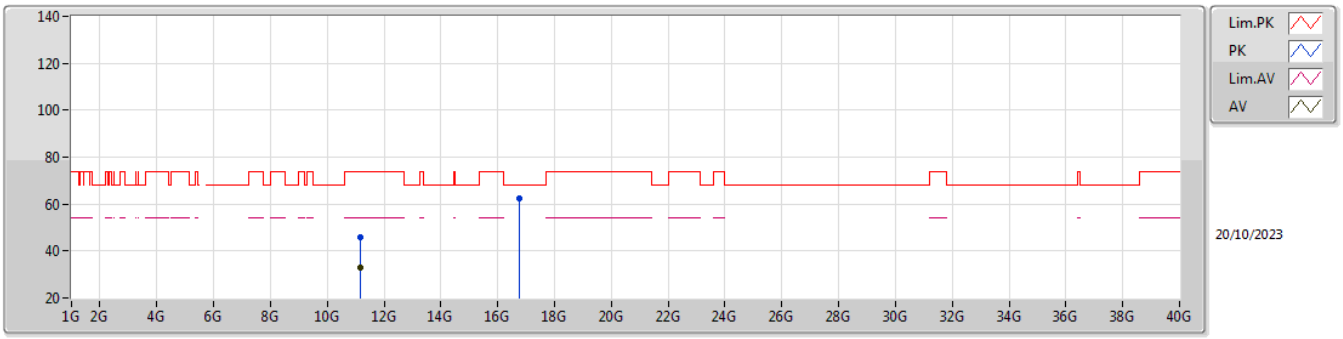


EUT Y_2TX
SET 25

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	11.1502G	46.42	74.00	-27.58	38.10	3	Vertical	329	1.05	-	38.50	12.98	43.16
AV	11.17344G	32.63	54.00	-21.37	24.25	3	Vertical	329	1.05	-	38.55	13.00	43.17
PK	16.72332G	60.37	68.20	-7.83	41.15	3	Vertical	1	1.80	-	38.87	22.17	41.82

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

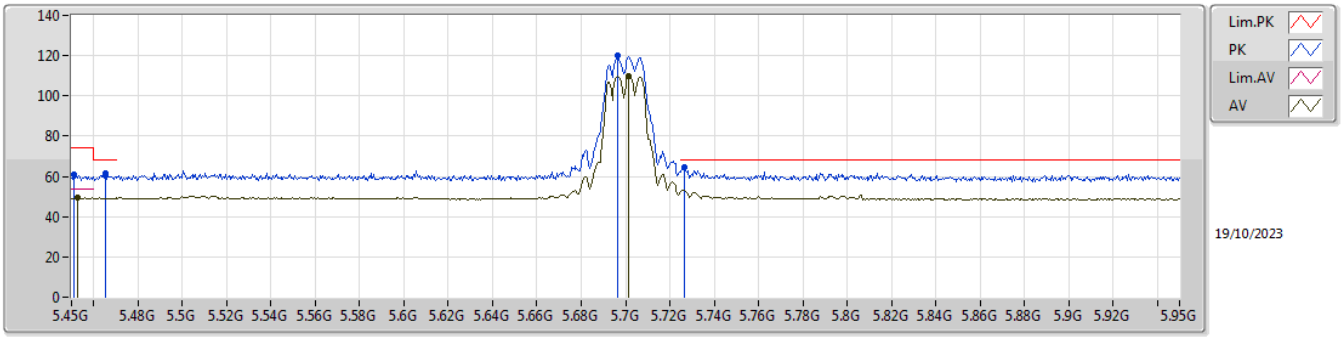


EUT Y_2TX
SET 25

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	11.16672G	46.01	74.00	-27.99	37.66	3	Horizontal	360	1.06	-	38.53	12.99	43.17
AV	11.17124G	32.81	54.00	-21.19	24.44	3	Horizontal	360	1.06	-	38.54	13.00	43.17
PK	16.7502G	62.20	68.20	-6.00	42.88	3	Horizontal	286	1.80	-	38.95	22.22	41.85

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

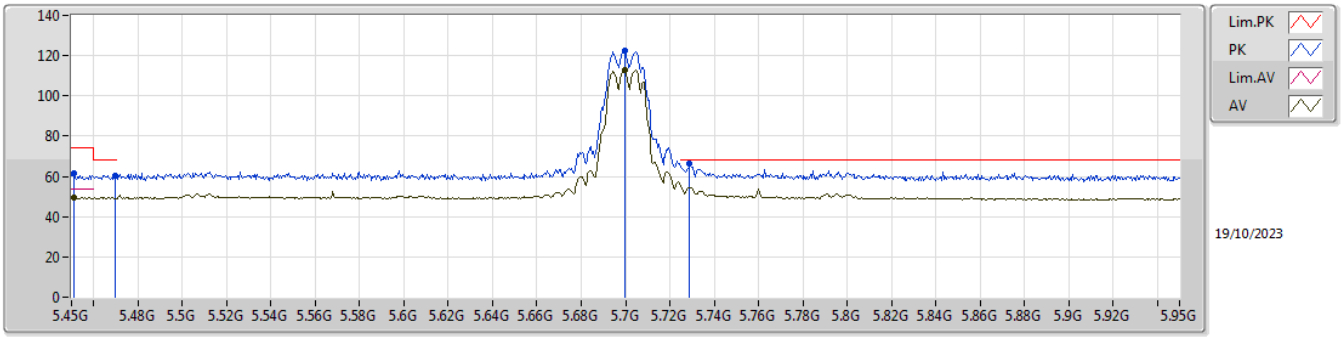


EUT Y_2TX
SET 21
21
3.55

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	5.451G	60.92	74.00	-13.08	52.65	3	Vertical	1	1.68	21	34.60	8.56	34.89
AV	5.4525G	49.27	54.00	-4.73	41.00	3	Vertical	1	1.68	21	34.60	8.56	34.89
PK	5.4655G	61.69	68.20	-6.51	53.42	3	Vertical	1	1.68	21	34.60	8.57	34.90
PK	5.6965G	119.79	Inf	-Inf	111.90	3	Vertical	1	1.68	21	34.21	8.67	34.99
AV	5.7015G	109.92	Inf	-Inf	102.05	3	Vertical	1	1.68	21	34.20	8.67	35.00
PK	5.7265G	64.65	68.20	-3.55	56.79	3	Vertical	1	1.68	21	34.20	8.67	35.01

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

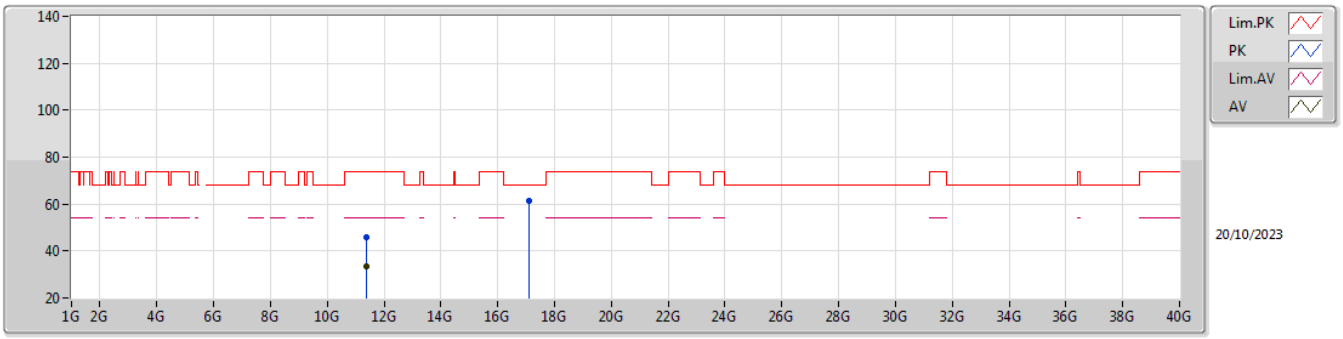


EUT Y_2TX
SET 21
15\19\21\22\21.5\21
4.82\4.66\1.89\-4.77\-1.08\1.95

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	5.451G	61.33	74.00	-12.67	53.06	3	Horizontal	5	1.63	21	34.60	8.56	34.89
AV	5.451G	49.37	54.00	-4.63	41.10	3	Horizontal	5	1.63	21	34.60	8.56	34.89
PK	5.4695G	60.38	68.20	-7.82	52.10	3	Horizontal	5	1.63	21	34.60	8.58	34.90
PK	5.6995G	122.71	Inf	-Inf	114.84	3	Horizontal	5	1.63	21	34.20	8.67	35.00
AV	5.6995G	112.76	Inf	-Inf	104.89	3	Horizontal	5	1.63	21	34.20	8.67	35.00
PK	5.729G	66.25	68.20	-1.95	58.39	3	Horizontal	5	1.63	21	34.20	8.67	35.01

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

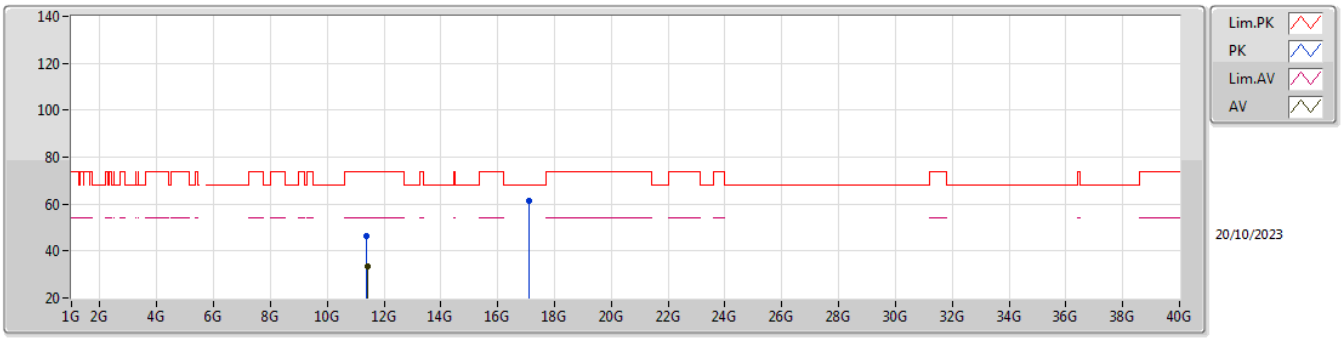


EUT Y_2TX
SET 21

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	11.38976G	45.96	74.00	-28.04	37.37	3	Vertical	315	1.05	21	38.68	13.17	43.26
AV	11.38276G	33.27	54.00	-20.73	24.69	3	Vertical	315	1.05	21	38.67	13.16	43.25
PK	17.1088G	61.19	68.20	-7.01	40.17	3	Vertical	193	1.50	21	40.23	22.85	42.06

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

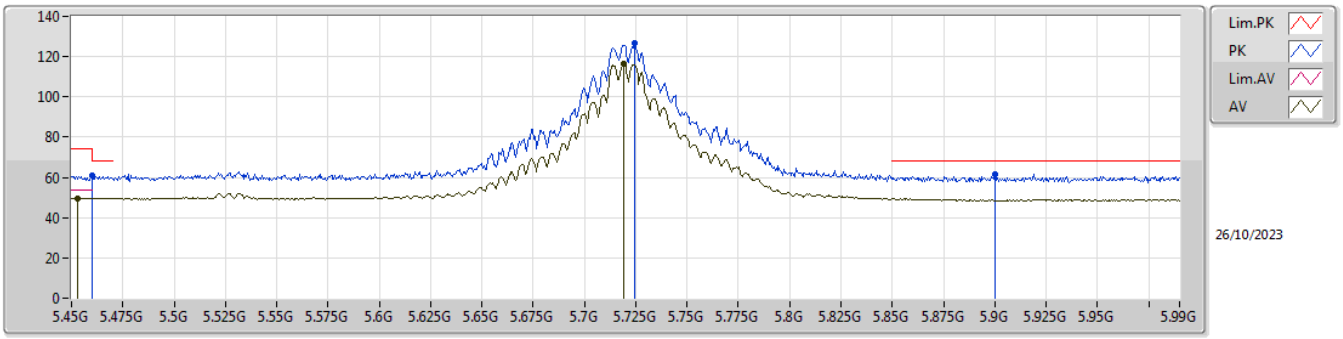


EUT Y_2TX
SET 21

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	11.38288G	46.28	74.00	-27.72	37.70	3	Horizontal	214	1.05	21	38.67	13.16	43.25
AV	11.40328G	33.49	54.00	-20.51	24.86	3	Horizontal	214	1.05	21	38.71	13.18	43.26
PK	17.08804G	61.19	68.20	-7.01	40.27	3	Horizontal	227	1.80	21	40.18	22.81	42.07

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

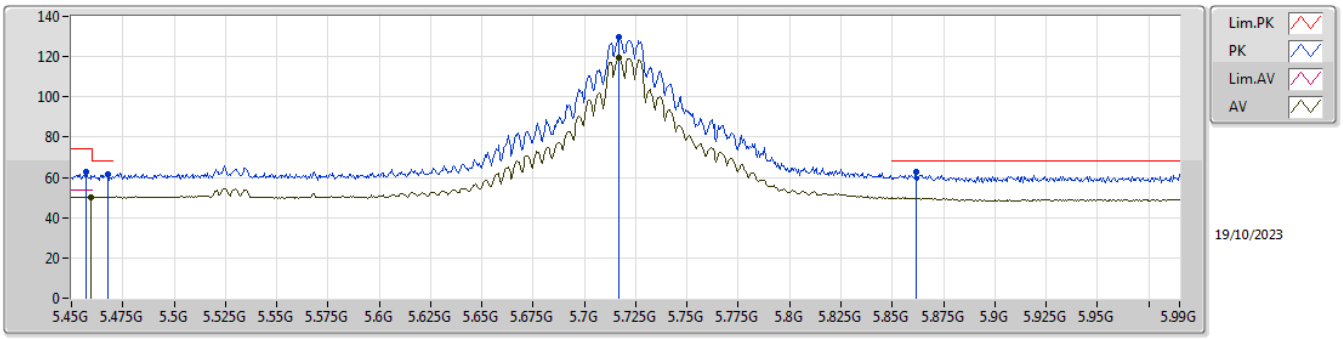


EUT Y_2TX
SET 25

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	5.46G	60.73	74.00	-13.27	52.45	3	Vertical	16	1.65	-	34.60	8.57	34.89
AV	5.45324G	49.66	54.00	-4.34	41.39	3	Vertical	16	1.65	-	34.60	8.56	34.89
PK	5.46026G	60.73	68.20	-7.47	52.45	3	Vertical	16	1.65	-	34.60	8.57	34.89
PK	5.72432G	126.65	Inf	-Inf	118.79	3	Vertical	16	1.65	-	34.20	8.67	35.01
AV	5.71892G	116.53	Inf	-Inf	108.67	3	Vertical	16	1.65	-	34.20	8.67	35.01
PK	5.90036G	61.75	68.20	-6.45	53.59	3	Vertical	16	1.65	-	34.50	8.75	35.09

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

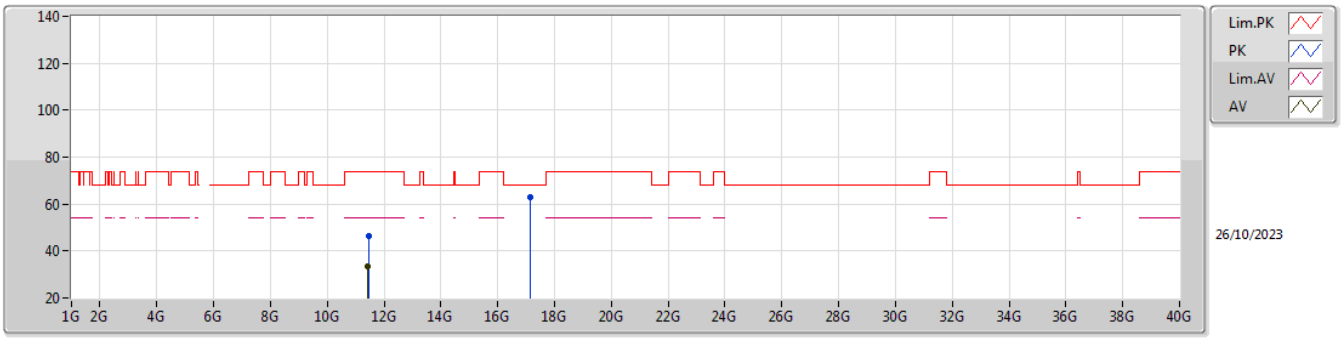


EUT Y_2TX
SET 25
15\21\24\25
5.02\4.54\3.84\3.68

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	5.45702G	62.51	74.00	-11.49	54.23	3	Horizontal	4	1.48	-	34.60	8.57	34.89
AV	5.45918G	50.32	54.00	-3.68	42.04	3	Horizontal	4	1.48	-	34.60	8.57	34.89
PK	5.46782G	61.80	68.20	-6.40	53.53	3	Horizontal	4	1.48	-	34.60	8.57	34.90
PK	5.71676G	129.55	Inf	-Inf	121.68	3	Horizontal	4	1.48	-	34.20	8.67	35.00
AV	5.71676G	119.19	Inf	-Inf	111.32	3	Horizontal	4	1.48	-	34.20	8.67	35.00
PK	5.86148G	62.76	68.20	-5.44	54.76	3	Horizontal	4	1.48	-	34.35	8.72	35.07

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

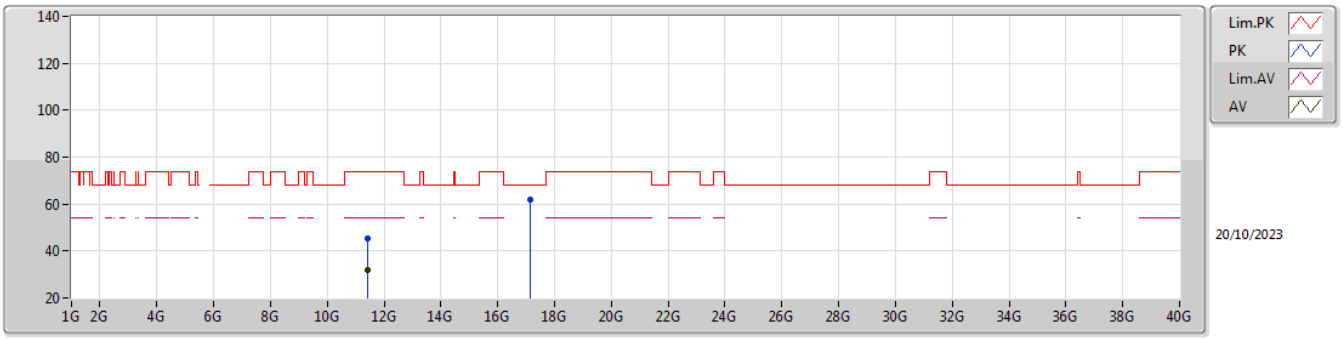


EUT Y_2TX
SET 25

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	11.44664G	46.25	74.00	-27.75	37.48	3	Vertical	328	1.42	-	38.84	13.21	43.28
AV	11.4382G	33.36	54.00	-20.64	24.63	3	Vertical	328	1.42	-	38.81	13.20	43.28
PK	17.1554G	62.91	68.20	-5.29	41.66	3	Vertical	358	1.80	-	40.37	22.93	42.05

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

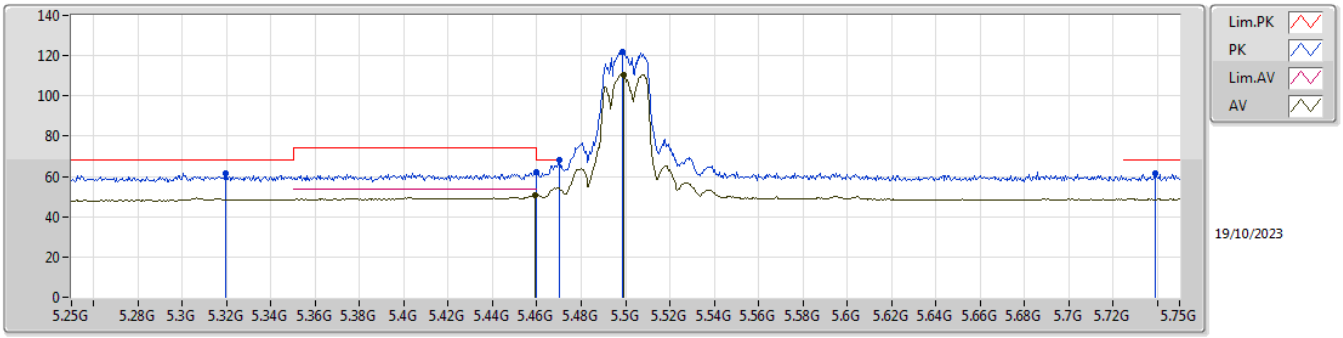


EUT Y_2TX
SET 25

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	11.43204G	45.11	74.00	-28.89	36.38	3	Horizontal	358	1.54	-	38.80	13.20	43.27
AV	11.43844G	32.14	54.00	-21.86	23.40	3	Horizontal	358	1.54	-	38.82	13.20	43.28
PK	17.16488G	61.93	68.20	-6.27	40.65	3	Horizontal	284	1.80	-	40.39	22.94	42.05

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TX

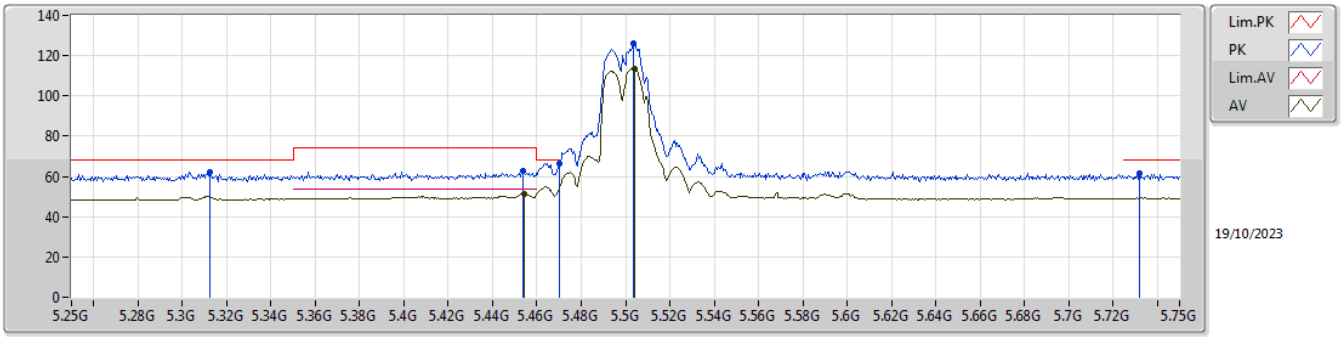


EUT Y_2TX
SET 21.5
22\20\21\21.5
-0.71\3.17\1.67\0.04

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	5.3195G	61.83	68.20	-6.37	53.93	3	Vertical	4	1.62	21.5	34.38	8.39	34.87
PK	5.4595G	62.06	74.00	-11.94	53.78	3	Vertical	4	1.62	21.5	34.60	8.57	34.89
AV	5.459G	50.94	54.00	-3.06	42.66	3	Vertical	4	1.62	21.5	34.60	8.57	34.89
PK	5.47G	68.16	68.20	-0.04	59.88	3	Vertical	4	1.62	21.5	34.60	8.58	34.90
PK	5.4985G	121.62	Inf	-Inf	113.33	3	Vertical	4	1.62	21.5	34.60	8.59	34.90
AV	5.499G	110.33	Inf	-Inf	102.04	3	Vertical	4	1.62	21.5	34.60	8.59	34.90
PK	5.739G	61.33	68.20	-6.87	53.47	3	Vertical	4	1.62	21.5	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TX

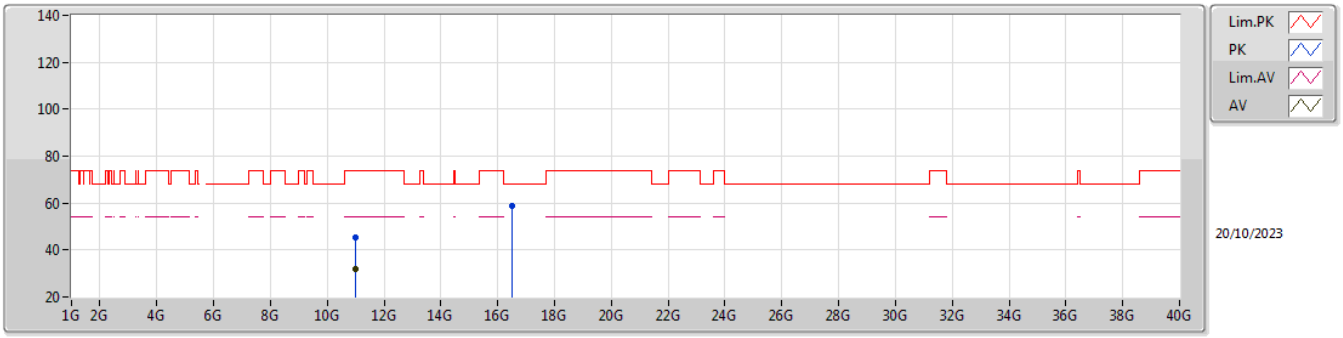


EUT Y_2TX
SET 22
15\21\24\22.5\22
5.02\3.51\-7.04\-0.31\1.61

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	5.3125G	62.30	68.20	-5.90	54.44	3	Horizontal	6	1.50	22	34.35	8.38	34.87
PK	5.4535G	62.50	74.00	-11.50	54.23	3	Horizontal	6	1.50	22	34.60	8.56	34.89
AV	5.4545G	51.50	54.00	-2.50	43.22	3	Horizontal	6	1.50	22	34.60	8.57	34.89
PK	5.47G	66.59	68.20	-1.61	58.31	3	Horizontal	6	1.50	22	34.60	8.58	34.90
PK	5.5035G	126.42	Inf	-Inf	118.12	3	Horizontal	6	1.50	22	34.60	8.60	34.90
AV	5.504G	113.48	Inf	-Inf	105.18	3	Horizontal	6	1.50	22	34.60	8.60	34.90
PK	5.732G	61.26	68.20	-6.94	53.40	3	Horizontal	6	1.50	22	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TX

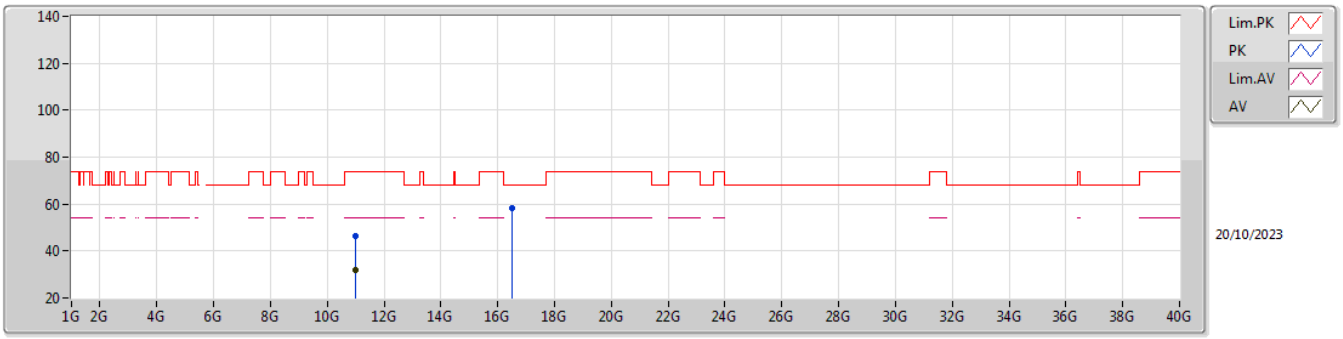


EUT Y_2TX
SET 21.5

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	10.99584G	45.45	74.00	-28.55	37.39	3	Vertical	252	2.96	-	38.30	12.86	43.10
AV	10.9968G	31.92	54.00	-22.08	23.86	3	Vertical	252	2.96	-	38.30	12.86	43.10
PK	16.49838G	58.76	68.20	-9.44	40.69	3	Vertical	285	1.15	-	37.90	21.77	41.60

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TX

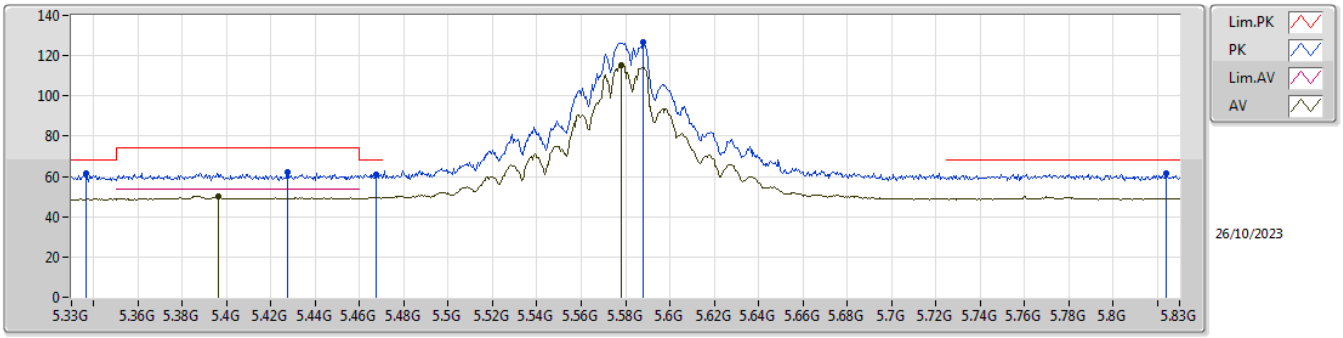


EUT Y_2TX
SET 21.5

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	10.99856G	46.16	74.00	-27.84	38.10	3	Horizontal	170	1.36	-	38.30	12.86	43.10
AV	10.9962G	31.81	54.00	-22.19	23.75	3	Horizontal	170	1.36	-	38.30	12.86	43.10
PK	16.48668G	58.15	68.20	-10.05	40.10	3	Horizontal	276	1.02	-	37.91	21.75	41.61

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TX

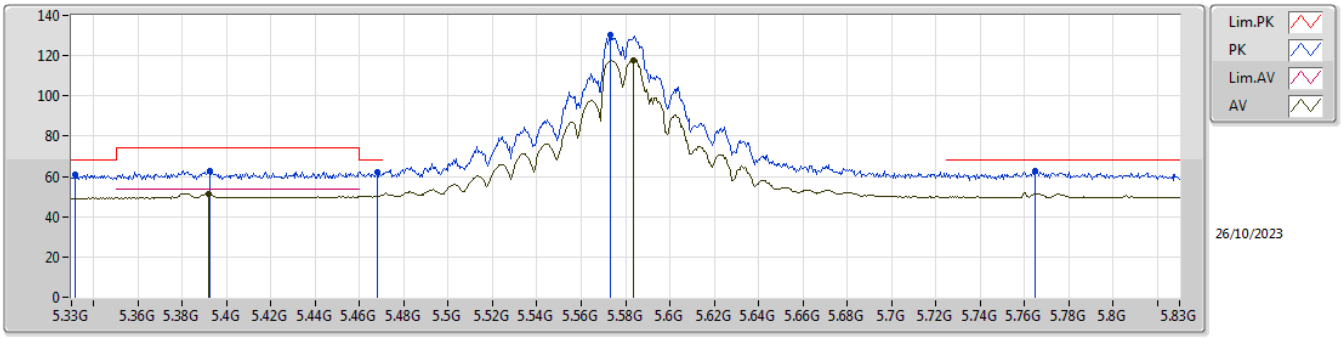


EUT Y_2TX
SET 25

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	5.3365G	61.46	68.20	-6.74	53.47	3	Vertical	22	1.77	-	34.45	8.42	34.88
PK	5.4275G	62.23	74.00	-11.77	54.06	3	Vertical	22	1.77	-	34.51	8.55	34.89
AV	5.3965G	50.03	54.00	-3.97	41.99	3	Vertical	22	1.77	-	34.41	8.52	34.89
PK	5.4675G	61.21	68.20	-6.99	52.94	3	Vertical	22	1.77	-	34.60	8.57	34.90
PK	5.588G	126.47	Inf	-Inf	118.31	3	Vertical	22	1.77	-	34.45	8.65	34.94
AV	5.578G	115.55	Inf	-Inf	107.35	3	Vertical	22	1.77	-	34.49	8.65	34.94
PK	5.824G	61.35	68.20	-6.85	53.41	3	Vertical	22	1.77	-	34.30	8.70	35.06

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TX

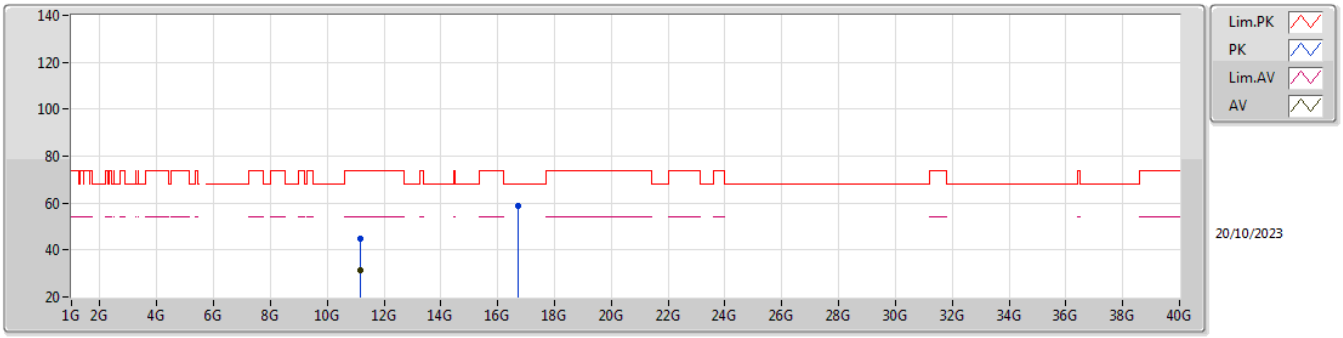


EUT Y_2TX
SET 25
15\21\24\25
5.07\4.15\3.21\2.50

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	5.3315G	60.78	68.20	-7.42	52.82	3	Horizontal	8	1.46	-	34.43	8.41	34.88
PK	5.3925G	62.59	74.00	-11.41	54.54	3	Horizontal	8	1.46	-	34.41	8.52	34.88
AV	5.392G	51.50	54.00	-2.50	43.44	3	Horizontal	8	1.46	-	34.42	8.52	34.88
PK	5.468G	62.24	68.20	-5.96	53.97	3	Horizontal	8	1.46	-	34.60	8.57	34.90
PK	5.573G	130.39	Inf	-Inf	122.18	3	Horizontal	8	1.46	-	34.51	8.64	34.94
AV	5.5835G	117.96	Inf	-Inf	109.78	3	Horizontal	8	1.46	-	34.47	8.65	34.94
PK	5.765G	62.74	68.20	-5.46	54.86	3	Horizontal	8	1.46	-	34.23	8.68	35.03

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TX

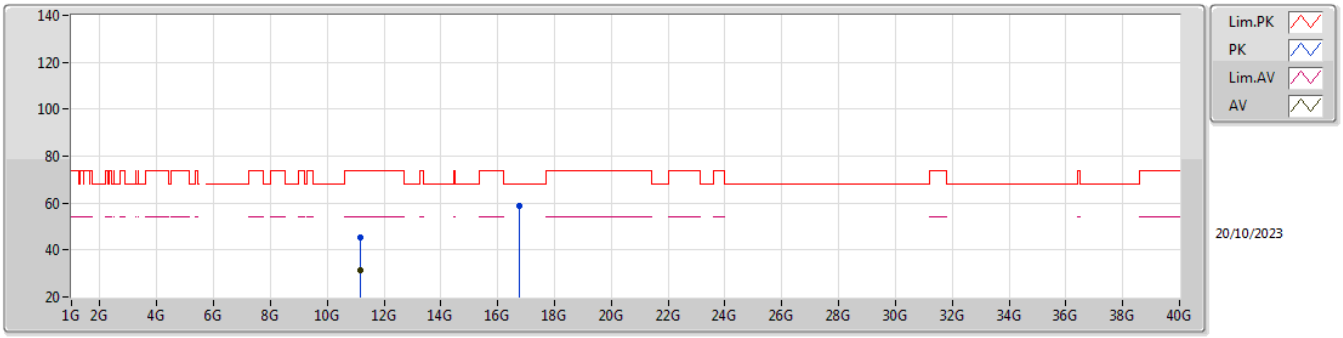


EUT Y_2TX
SET 25

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	11.1629G	44.95	74.00	-29.05	36.60	3	Vertical	170	1.70	-	38.53	12.99	43.17
AV	11.16476G	31.25	54.00	-22.75	22.90	3	Vertical	170	1.70	-	38.53	12.99	43.17
PK	16.73904G	58.86	68.20	-9.34	39.57	3	Vertical	35	1.74	-	38.92	22.20	41.83

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TX

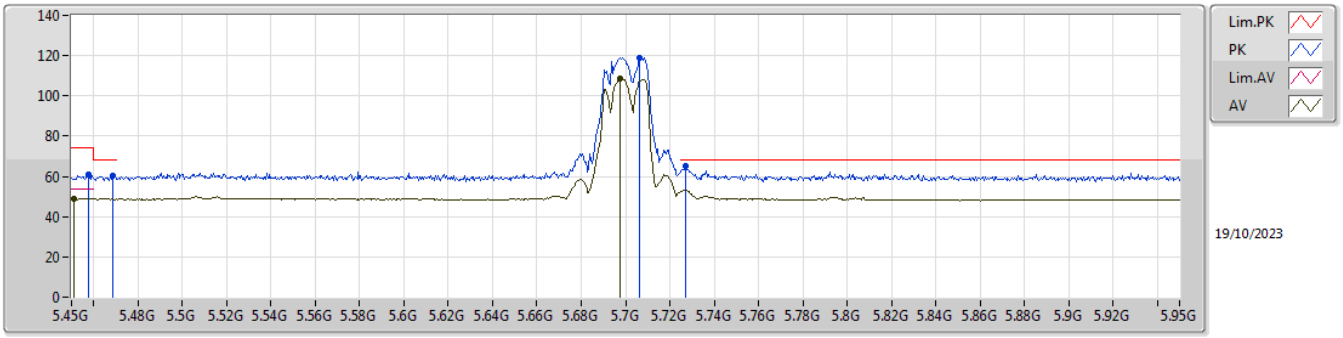


EUT Y_2TX
SET 25

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	11.1596G	45.16	74.00	-28.84	36.81	3	Horizontal	288	1.47	-	38.52	12.99	43.16
AV	11.16482G	31.22	54.00	-22.78	22.87	3	Horizontal	288	1.47	-	38.53	12.99	43.17
PK	16.75176G	58.76	68.20	-9.44	39.43	3	Horizontal	16	1.90	-	38.96	22.22	41.85

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TX

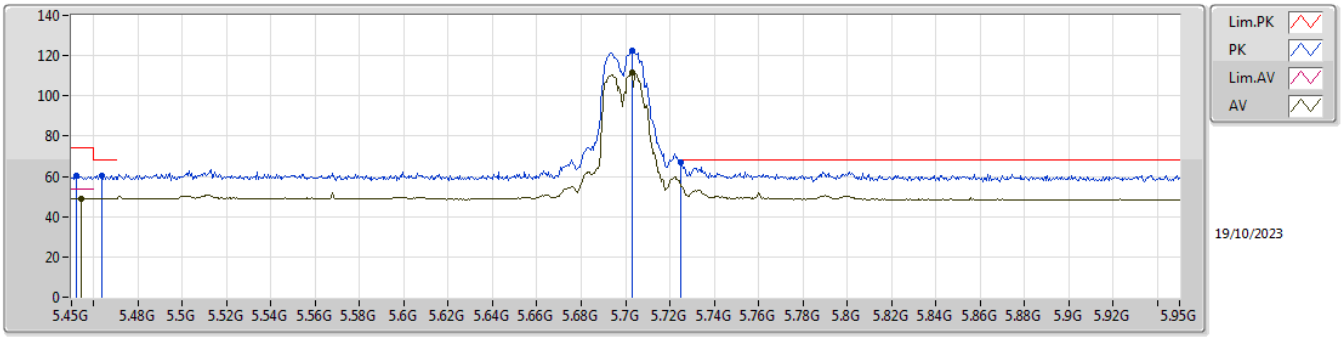


EUT Y_2TX
SET 21
21
3.14

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	5.4575G	60.80	74.00	-13.20	52.52	3	Vertical	360	1.39	21	34.60	8.57	34.89
AV	5.451G	48.90	54.00	-5.10	40.63	3	Vertical	360	1.39	21	34.60	8.56	34.89
PK	5.4685G	60.58	68.20	-7.62	52.31	3	Vertical	360	1.39	21	34.60	8.57	34.90
PK	5.7065G	118.84	Inf	-Inf	110.97	3	Vertical	360	1.39	21	34.20	8.67	35.00
AV	5.6975G	108.69	Inf	-Inf	100.80	3	Vertical	360	1.39	21	34.21	8.67	34.99
PK	5.727G	65.06	68.20	-3.14	57.20	3	Vertical	360	1.39	21	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TX

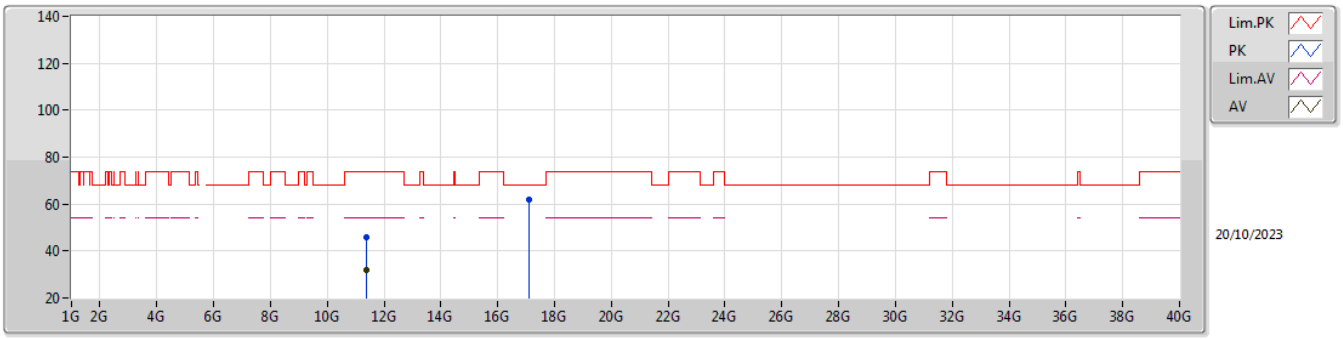


EUT Y_2TX
SET 21
15\21\24\22.5\22\16\19\20.5\21
5.27\1.49\-12.69\-6.85\-5.64\5.35\4.33\1.69\1.23

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	5.452G	60.31	74.00	-13.69	52.04	3	Horizontal	5	1.40	21	34.60	8.56	34.89
AV	5.4545G	49.01	54.00	-4.99	40.73	3	Horizontal	5	1.40	21	34.60	8.57	34.89
PK	5.4635G	60.50	68.20	-7.70	52.22	3	Horizontal	5	1.40	21	34.60	8.57	34.89
PK	5.703G	122.63	Inf	-Inf	114.76	3	Horizontal	5	1.40	21	34.20	8.67	35.00
AV	5.703G	111.42	Inf	-Inf	103.55	3	Horizontal	5	1.40	21	34.20	8.67	35.00
PK	5.725G	66.97	68.20	-1.23	59.11	3	Horizontal	5	1.40	21	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TX

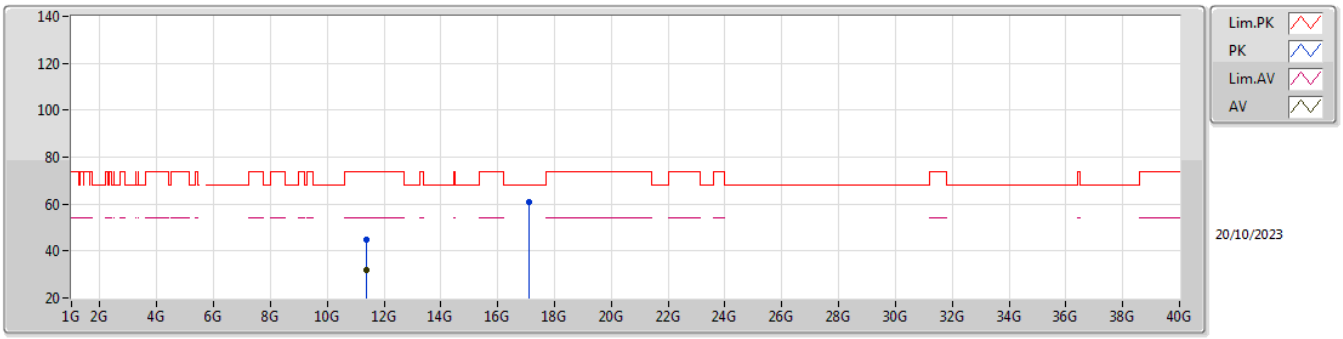


EUT Y_2TX
SET 21

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	11.39544G	45.73	74.00	-28.27	37.13	3	Vertical	351	1.53	-	38.69	13.17	43.26
AV	11.39826G	31.88	54.00	-22.12	23.27	3	Vertical	351	1.53	-	38.70	13.17	43.26
PK	17.0889G	61.70	68.20	-6.50	40.78	3	Vertical	153	2.71	-	40.18	22.81	42.07

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TX

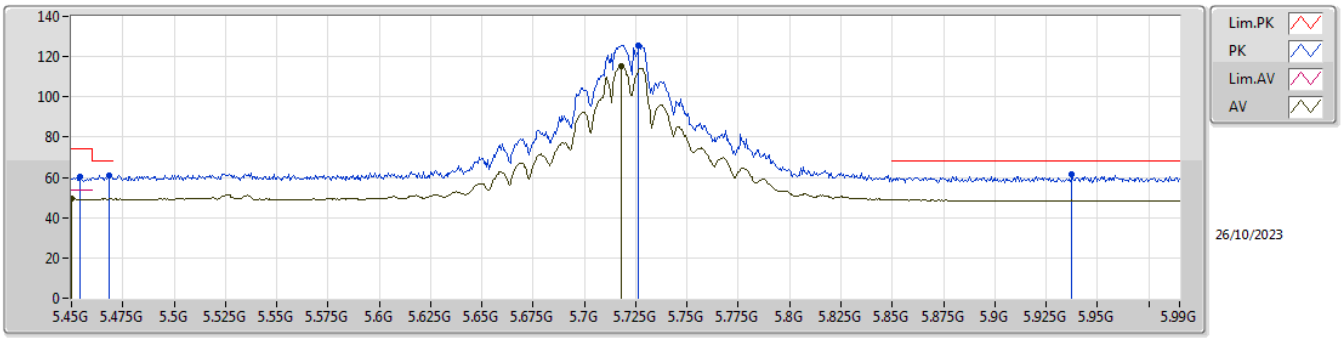


EUT Y_2TX
SET 21

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	11.39328G	44.57	74.00	-29.43	35.97	3	Horizontal	95	1.93	-	38.69	13.17	43.26
AV	11.3946G	31.87	54.00	-22.13	23.27	3	Horizontal	95	1.93	-	38.69	13.17	43.26
PK	17.09376G	61.12	68.20	-7.08	40.18	3	Horizontal	135	1.70	-	40.19	22.82	42.07

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

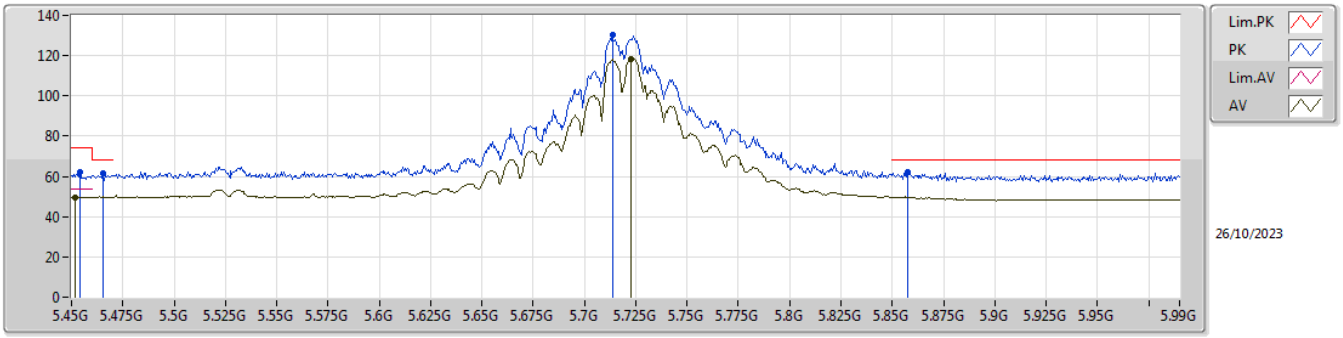


EUT Y_2TX
SET 25

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	5.45432G	60.58	74.00	-13.42	52.30	3	Vertical	0	1.77	-	34.60	8.57	34.89
AV	5.45G	49.28	54.00	-4.72	41.01	3	Vertical	0	1.77	-	34.60	8.56	34.89
PK	5.46836G	60.99	68.20	-7.21	52.72	3	Vertical	0	1.77	-	34.60	8.57	34.90
PK	5.72648G	125.73	Inf	-Inf	117.87	3	Vertical	0	1.77	-	34.20	8.67	35.01
AV	5.71784G	115.20	Inf	-Inf	107.33	3	Vertical	0	1.77	-	34.20	8.67	35.00
PK	5.93762G	61.28	68.20	-6.92	53.03	3	Vertical	0	1.77	-	34.58	8.78	35.11

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

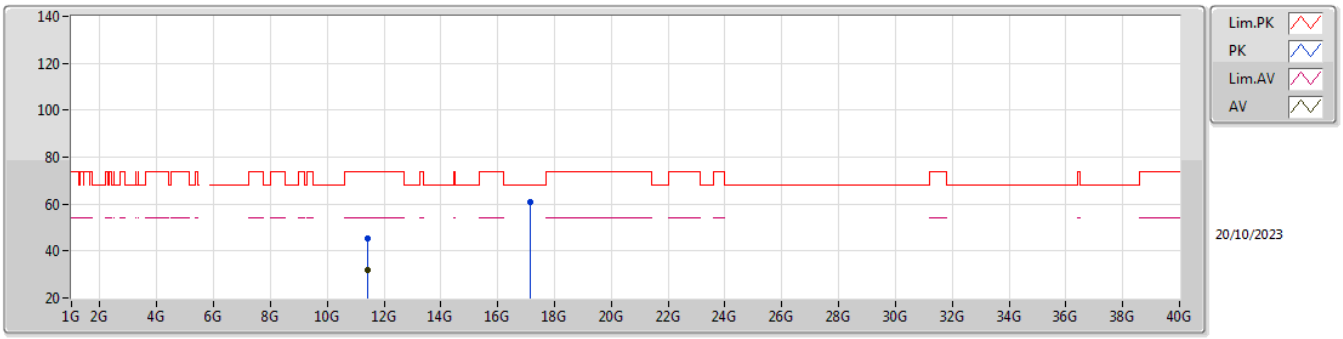


EUT Y_2TX
SET 25
15\21\24\25
5.27\4.98\4.33\4.23

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	5.45432G	61.93	74.00	-12.07	53.65	3	Horizontal	4	1.57	-	34.60	8.57	34.89
AV	5.45162G	49.77	54.00	-4.23	41.50	3	Horizontal	4	1.57	-	34.60	8.56	34.89
PK	5.46512G	61.52	68.20	-6.68	53.25	3	Horizontal	4	1.57	-	34.60	8.57	34.90
PK	5.71352G	130.14	Inf	-Inf	122.27	3	Horizontal	4	1.57	-	34.20	8.67	35.00
AV	5.7227G	118.34	Inf	-Inf	110.48	3	Horizontal	4	1.57	-	34.20	8.67	35.01
PK	5.8577G	62.20	68.20	-6.00	54.22	3	Horizontal	4	1.57	-	34.33	8.72	35.07

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

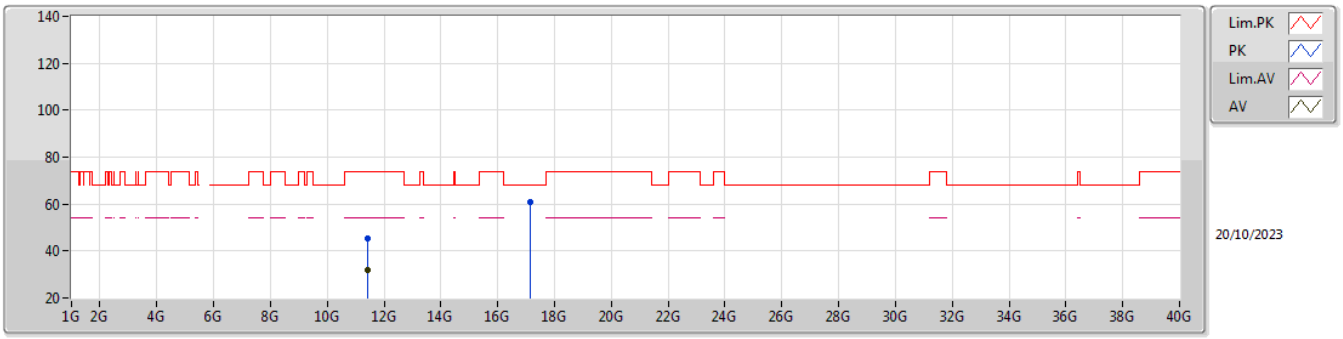


EUT Y_2TX
SET 25

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	11.44152G	45.53	74.00	-28.47	36.78	3	Vertical	96	2.83	-	38.82	13.21	43.28
AV	11.43586G	31.86	54.00	-22.14	23.12	3	Vertical	96	2.83	-	38.81	13.20	43.27
PK	17.1495G	60.92	68.20	-7.28	39.70	3	Vertical	55	1.72	-	40.35	22.92	42.05

5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

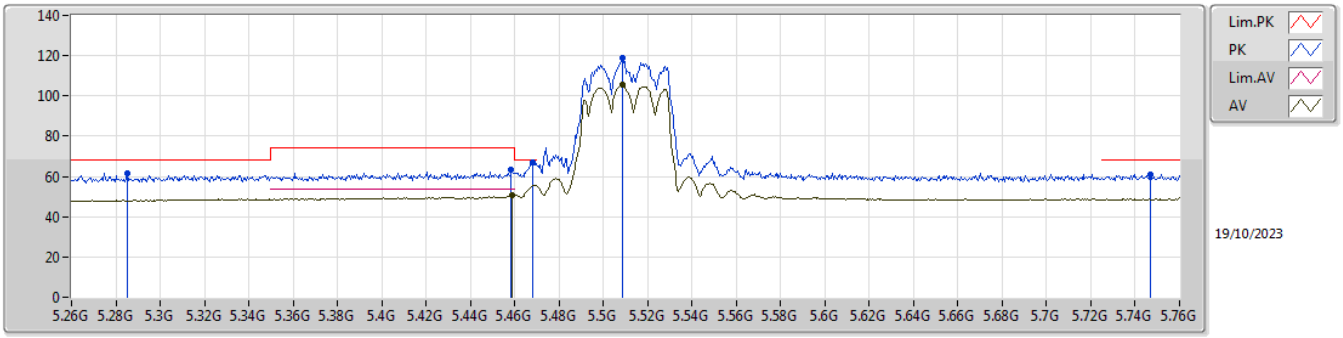


EUT Y_2TX
SET 25

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	11.44034G	45.56	74.00	-28.44	36.81	3	Horizontal	217	1.94	-	38.82	13.21	43.28
AV	11.4399G	31.88	54.00	-22.12	23.13	3	Horizontal	217	1.94	-	38.82	13.21	43.28
PK	17.15892G	61.11	68.20	-7.09	39.85	3	Horizontal	145	1.58	-	40.38	22.93	42.05

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TX

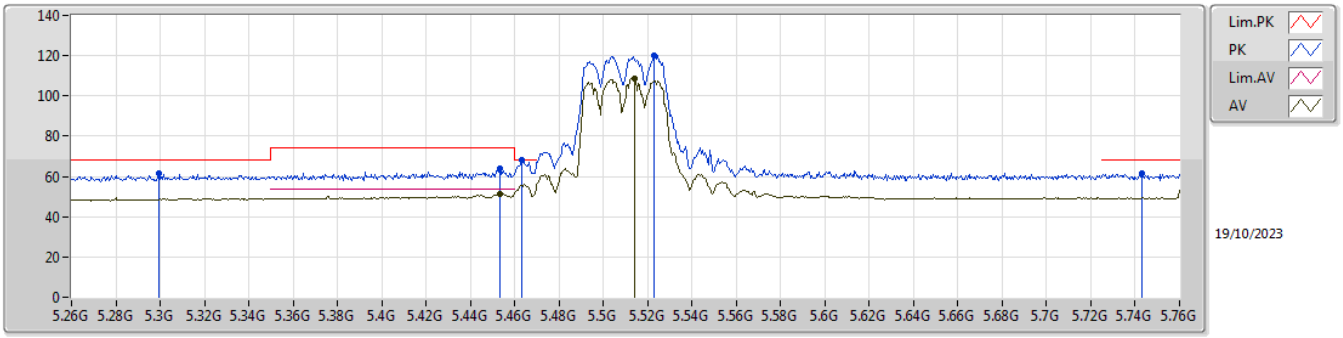


EUT Y_2TX
SET 18
18.5\16.5\17.5\18
-0.66\2.90\1.09\1.08

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	5.285G	61.67	68.20	-6.53	54.00	3	Vertical	2	1.76	18	34.21	8.33	34.87
PK	5.4585G	63.33	74.00	-10.67	55.05	3	Vertical	2	1.76	18	34.60	8.57	34.89
AV	5.459G	50.87	54.00	-3.13	42.59	3	Vertical	2	1.76	18	34.60	8.57	34.89
PK	5.468G	67.12	68.20	-1.08	58.85	3	Vertical	2	1.76	18	34.60	8.57	34.90
PK	5.5085G	119.06	Inf	-Inf	110.76	3	Vertical	2	1.76	18	34.60	8.60	34.90
AV	5.5085G	105.33	Inf	-Inf	97.03	3	Vertical	2	1.76	18	34.60	8.60	34.90
PK	5.747G	60.97	68.20	-7.23	53.12	3	Vertical	2	1.76	18	34.20	8.67	35.02

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TX

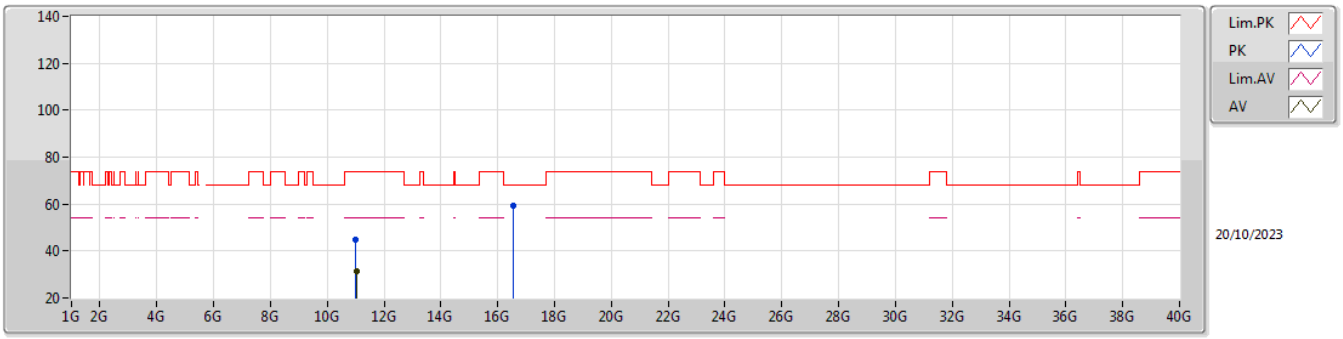


EUT Y_2TX
SET 18.5
15\19\17\18\18.5
4.74\-3.18\3.47\1.57\0.28

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	5.2995G	61.47	68.20	-6.73	53.68	3	Horizontal	4	1.46	18.5	34.30	8.36	34.87
PK	5.4535G	63.69	74.00	-10.31	55.42	3	Horizontal	4	1.46	18.5	34.60	8.56	34.89
AV	5.4535G	51.53	54.00	-2.47	43.26	3	Horizontal	4	1.46	18.5	34.60	8.56	34.89
PK	5.463G	67.92	68.20	-0.28	59.64	3	Horizontal	4	1.46	18.5	34.60	8.57	34.89
PK	5.523G	120.23	Inf	-Inf	111.93	3	Horizontal	4	1.46	18.5	34.60	8.61	34.91
AV	5.514G	108.63	Inf	-Inf	100.34	3	Horizontal	4	1.46	18.5	34.60	8.60	34.91
PK	5.743G	61.51	68.20	-6.69	53.66	3	Horizontal	4	1.46	18.5	34.20	8.67	35.02

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TX

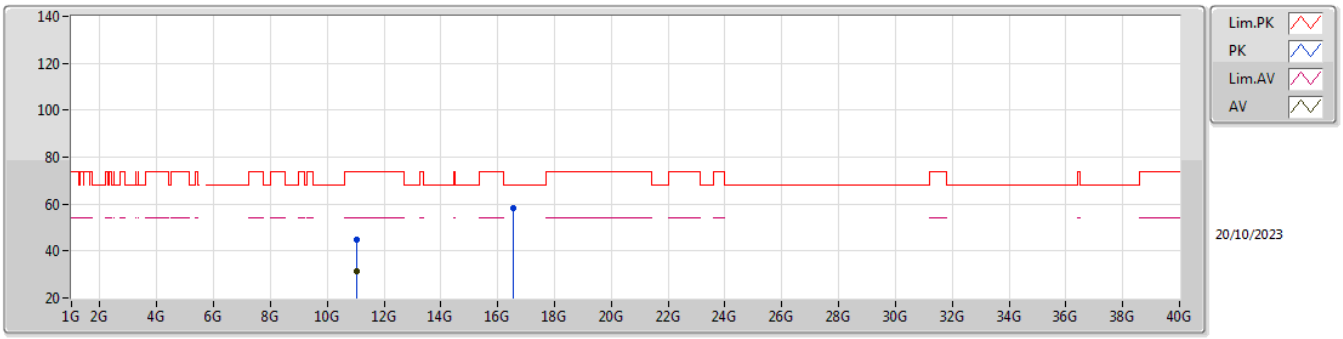


EUT Y_2TX
SET 18

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	11.01572G	45.00	74.00	-29.00	36.91	3	Vertical	236	1.22	-	38.32	12.88	43.11
AV	11.02374G	31.46	54.00	-22.54	23.37	3	Vertical	236	1.22	-	38.32	12.88	43.11
PK	16.53204G	59.44	68.20	-8.76	41.18	3	Vertical	132	1.93	-	38.06	21.83	41.63

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TX

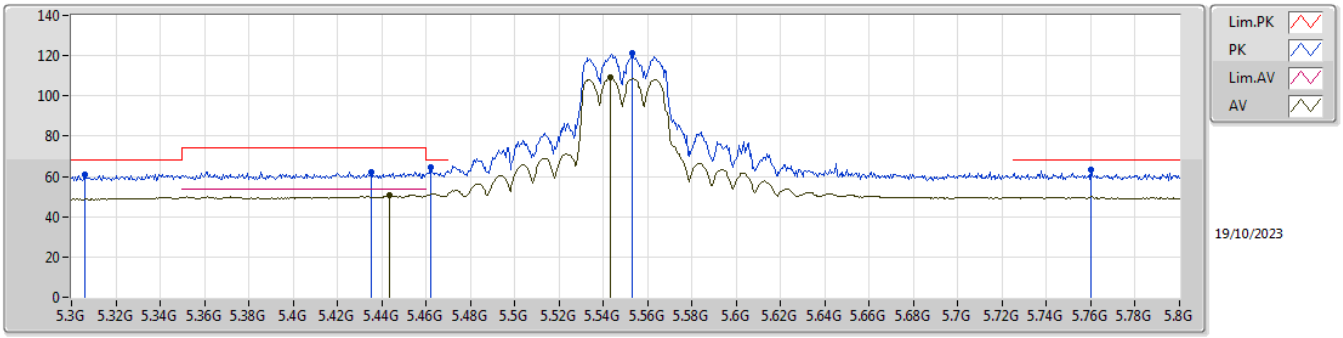


EUT Y_2TX
SET 18

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	11.02414G	44.92	74.00	-29.08	36.83	3	Horizontal	178	2.41	-	38.32	12.88	43.11
AV	11.0205G	31.40	54.00	-22.60	23.31	3	Horizontal	178	2.41	-	38.32	12.88	43.11
PK	16.54014G	58.32	68.20	-9.88	40.01	3	Horizontal	255	2.48	-	38.10	21.85	41.64

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TX

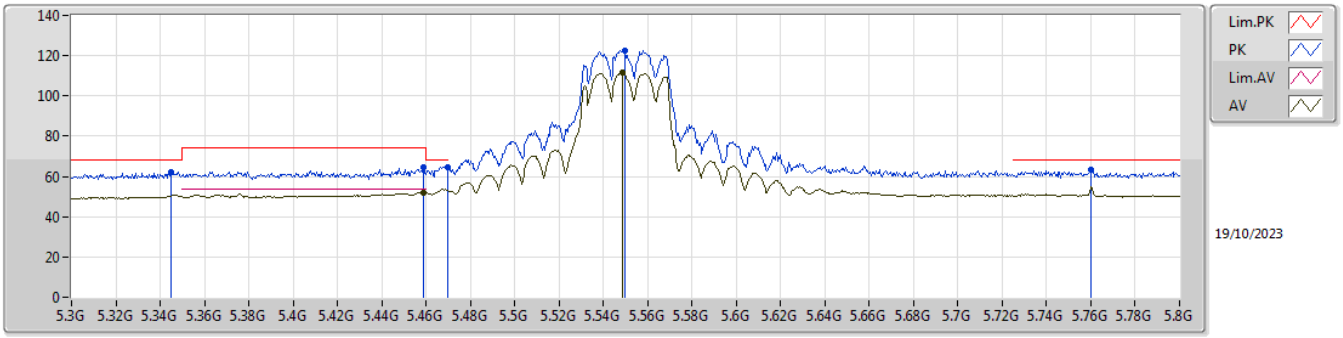


EUT Y_2TX
SET 22.5
22.5
3.36

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	5.306G	61.11	68.20	-7.09	53.29	3	Vertical	5	1.63	22.5	34.32	8.37	34.87
PK	5.435G	62.32	74.00	-11.68	54.12	3	Vertical	5	1.63	22.5	34.54	8.55	34.89
AV	5.4435G	50.64	54.00	-3.36	42.40	3	Vertical	5	1.63	22.5	34.57	8.56	34.89
PK	5.462G	64.70	68.20	-3.50	56.42	3	Vertical	5	1.63	22.5	34.60	8.57	34.89
PK	5.553G	121.45	Inf	-Inf	113.16	3	Vertical	5	1.63	22.5	34.59	8.63	34.93
AV	5.543G	109.15	Inf	-Inf	100.85	3	Vertical	5	1.63	22.5	34.60	8.62	34.92
PK	5.76G	63.13	68.20	-5.07	55.25	3	Vertical	5	1.63	22.5	34.22	8.68	35.02

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TX

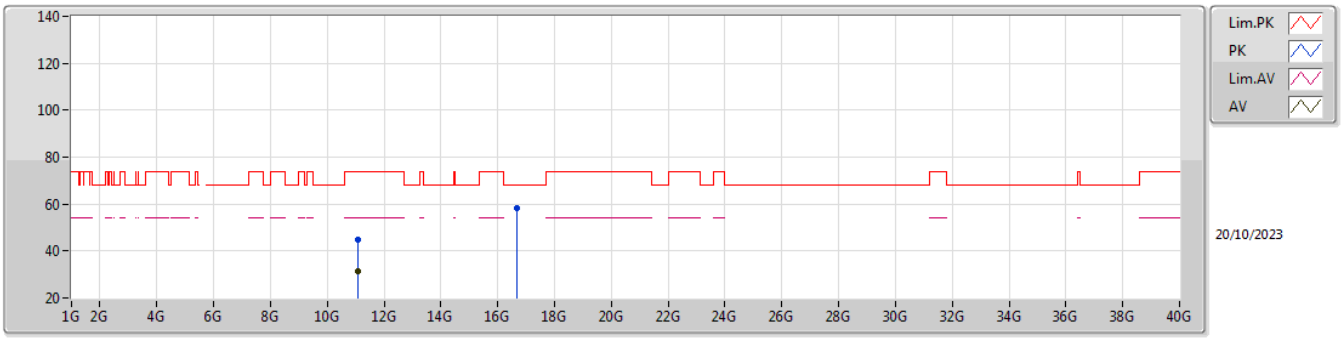


EUT Y_2TX
SET 22.5
15\21\24\22.5\23\22.5
5.01\3.61\-4.96\1.78\-1.06\1.89

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	5.345G	62.36	68.20	-5.84	54.32	3	Horizontal	6	1.47	22.5	34.48	8.44	34.88
PK	5.459G	64.55	74.00	-9.45	56.27	3	Horizontal	6	1.47	22.5	34.60	8.57	34.89
AV	5.459G	52.11	54.00	-1.89	43.83	3	Horizontal	6	1.47	22.5	34.60	8.57	34.89
PK	5.4695G	64.75	68.20	-3.45	56.47	3	Horizontal	6	1.47	22.5	34.60	8.58	34.90
PK	5.5495G	122.80	Inf	-Inf	114.49	3	Horizontal	6	1.47	22.5	34.60	8.63	34.92
AV	5.5485G	111.71	Inf	-Inf	103.40	3	Horizontal	6	1.47	22.5	34.60	8.63	34.92
PK	5.76G	63.20	68.20	-5.00	55.32	3	Horizontal	6	1.47	22.5	34.22	8.68	35.02

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TX

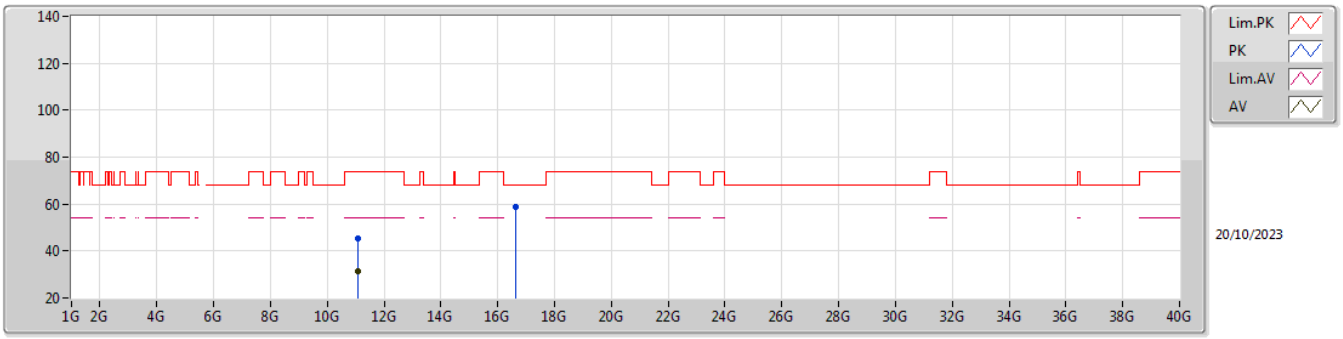


EUT Y_2TX
SET 22.5

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	11.1021G	44.88	74.00	-29.12	36.68	3	Vertical	235	1.14	-	38.40	12.94	43.14
AV	11.10012G	31.53	54.00	-22.47	23.33	3	Vertical	235	1.14	-	38.40	12.94	43.14
PK	16.6614G	58.48	68.20	-9.72	39.53	3	Vertical	171	2.02	-	38.65	22.06	41.76

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TX

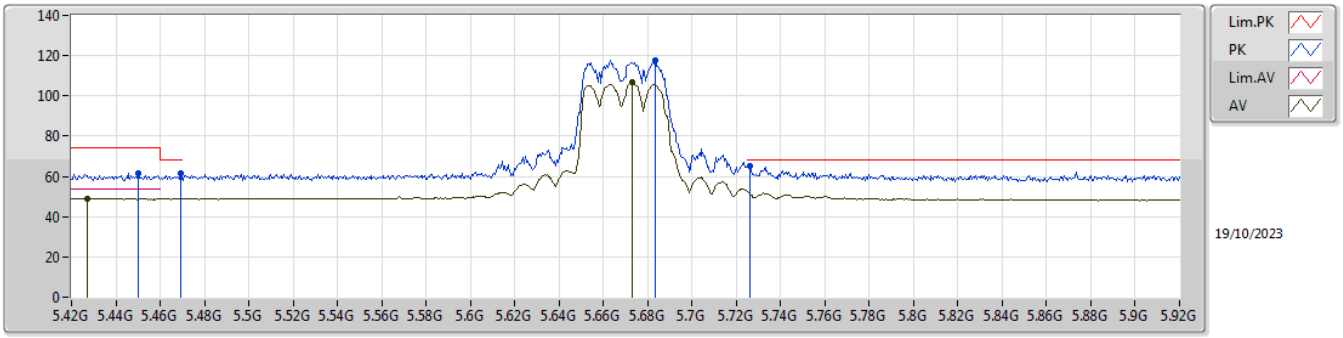


EUT Y_2TX
SET 22.5

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	11.0982G	45.13	74.00	-28.87	36.93	3	Horizontal	301	2.97	-	38.40	12.94	43.14
AV	11.09734G	31.39	54.00	-22.61	23.19	3	Horizontal	301	2.97	-	38.40	12.94	43.14
PK	16.63554G	58.92	68.20	-9.28	40.09	3	Horizontal	210	2.93	-	38.54	22.02	41.73

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TX

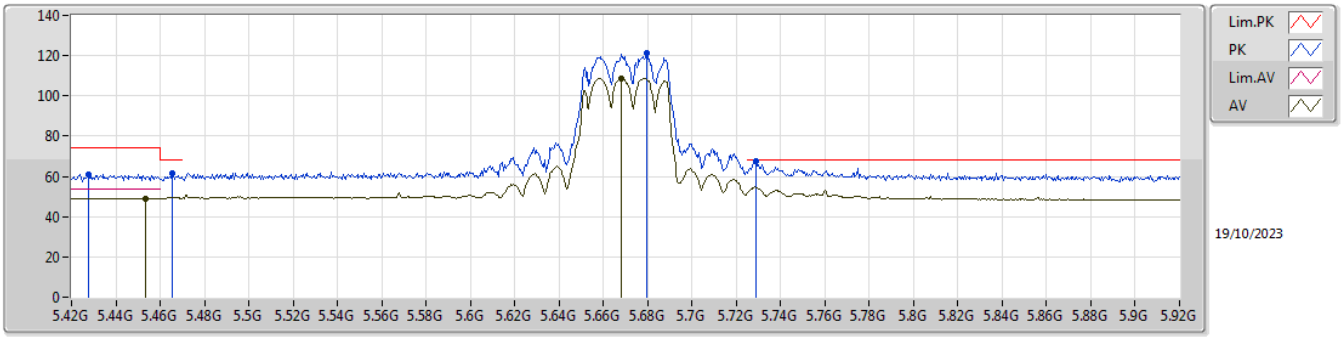


EUT Y_2TX
SET 21
21
2.74

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	5.45G	61.57	74.00	-12.43	53.30	3	Vertical	357	1.43	21	34.60	8.56	34.89
AV	5.427G	49.02	54.00	-4.98	40.85	3	Vertical	357	1.43	21	34.51	8.55	34.89
PK	5.4695G	61.64	68.20	-6.56	53.36	3	Vertical	357	1.43	21	34.60	8.58	34.90
PK	5.6835G	117.80	Inf	-Inf	109.85	3	Vertical	357	1.43	21	34.27	8.67	34.99
AV	5.673G	106.51	Inf	-Inf	98.51	3	Vertical	357	1.43	21	34.31	8.67	34.98
PK	5.726G	65.46	68.20	-2.74	57.60	3	Vertical	357	1.43	21	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TX

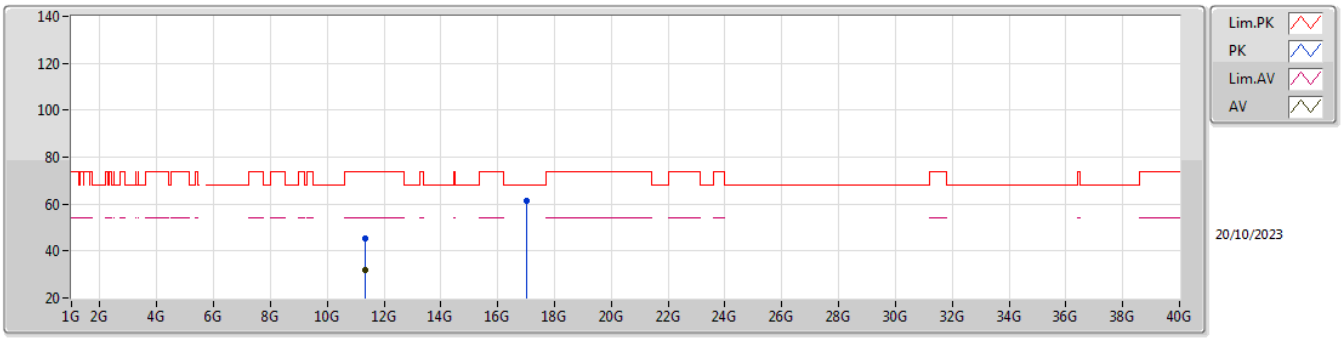


EUT Y_2TX
SET 21
15\21\24\22.5\22\16\19\20.5\21
5.19\1.61\-13.49\-8.46\-7.26\5.15\4.49\1.63\0.52

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	5.4275G	61.14	74.00	-12.86	52.97	3	Horizontal	3	1.43	21	34.51	8.55	34.89
PK	5.4655G	61.61	68.20	-6.59	53.34	3	Horizontal	3	1.43	21	34.60	8.57	34.90
AV	5.4535G	49.14	54.00	-4.86	40.87	3	Horizontal	3	1.43	21	34.60	8.56	34.89
PK	5.6795G	121.25	Inf	-Inf	113.29	3	Horizontal	3	1.43	21	34.28	8.67	34.99
AV	5.668G	108.91	Inf	-Inf	100.89	3	Horizontal	3	1.43	21	34.33	8.67	34.98
PK	5.729G	67.68	68.20	-0.52	59.82	3	Horizontal	3	1.43	21	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TX

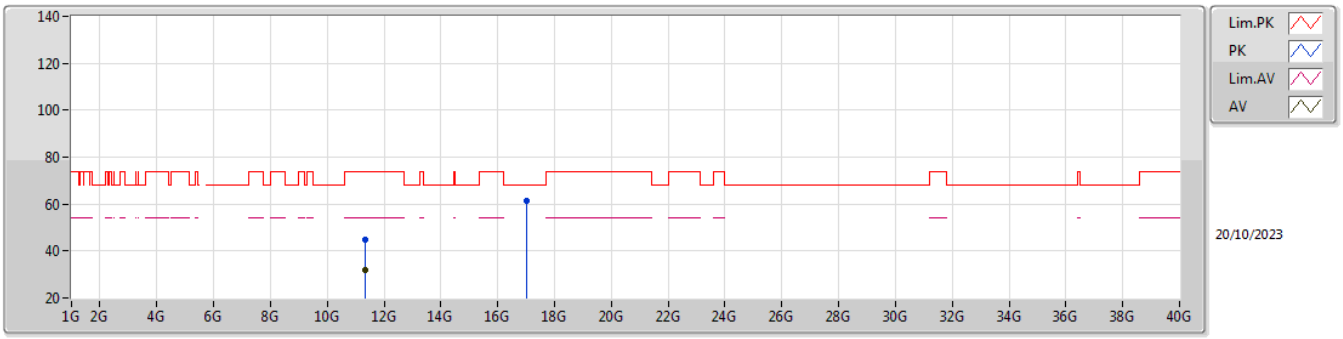


EUT Y_2TX
SET 21

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	11.3435G	45.20	74.00	-28.80	36.72	3	Vertical	142	2.05	-	38.59	13.13	43.24
AV	11.3438G	31.73	54.00	-22.27	23.25	3	Vertical	142	2.05	-	38.59	13.13	43.24
PK	17.00718G	61.17	68.20	-7.03	40.58	3	Vertical	275	2.74	-	40.01	22.67	42.09

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TX

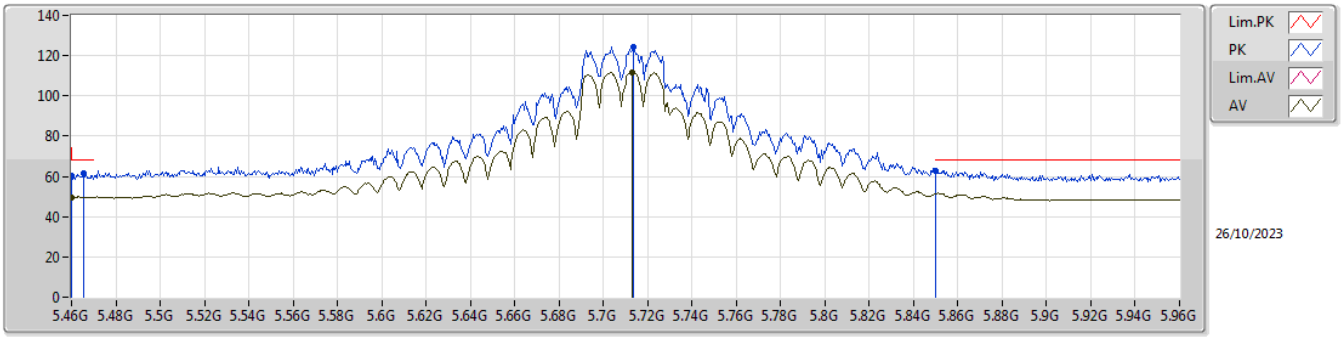


EUT Y_2TX
SET 21

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	11.34496G	44.96	74.00	-29.04	36.48	3	Horizontal	150	2.09	-	38.59	13.13	43.24
AV	11.34374G	31.66	54.00	-22.34	23.18	3	Horizontal	150	2.09	-	38.59	13.13	43.24
PK	17.00298G	61.20	68.20	-7.00	40.62	3	Horizontal	179	2.57	-	40.01	22.66	42.09

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

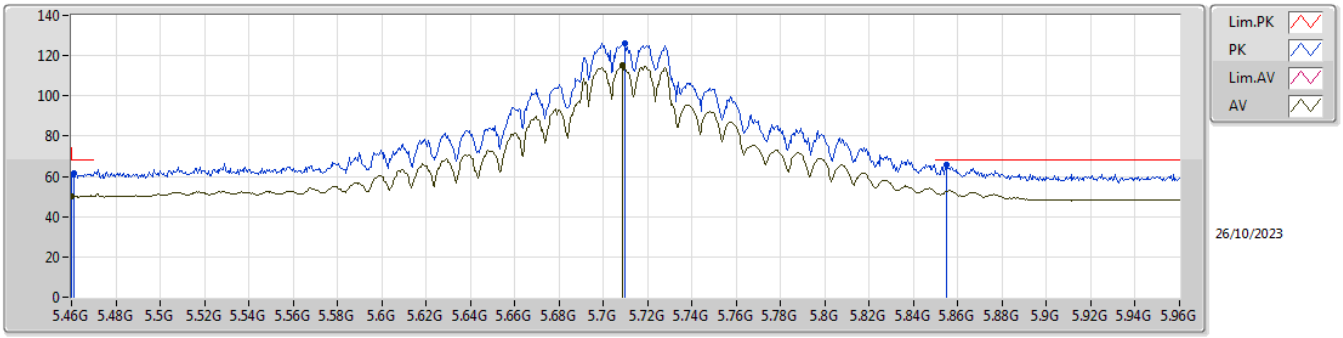


EUT Y_2TX
SET 25

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	5.46G	60.63	74.00	-13.37	52.35	3	Vertical	360	1.57	-	34.60	8.57	34.89
AV	5.46G	49.51	54.00	-4.49	41.23	3	Vertical	360	1.57	-	34.60	8.57	34.89
PK	5.4655G	61.85	68.20	-6.35	53.58	3	Vertical	360	1.57	-	34.60	8.57	34.90
PK	5.7135G	124.49	Inf	-Inf	116.62	3	Vertical	360	1.57	-	34.20	8.67	35.00
AV	5.713G	111.91	Inf	-Inf	104.04	3	Vertical	360	1.57	-	34.20	8.67	35.00
PK	5.85G	62.79	68.20	-5.41	54.85	3	Vertical	360	1.57	-	34.30	8.71	35.07

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

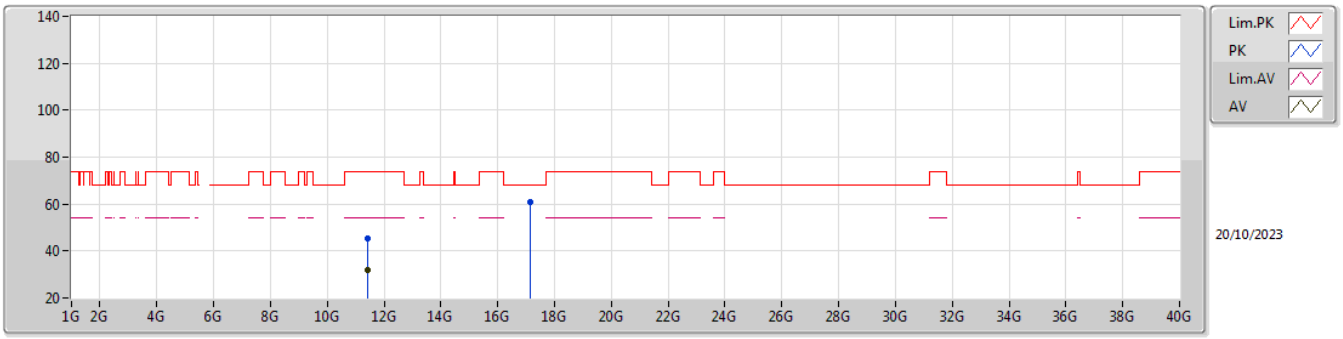


EUT Y_2TX
SET 25
15\21\24\25
5.59\5.15\4.49\2.37

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	5.46G	60.73	74.00	-13.27	52.45	3	Horizontal	3	1.76	-	34.60	8.57	34.89
AV	5.46G	49.92	54.00	-4.08	41.64	3	Horizontal	3	1.76	-	34.60	8.57	34.89
PK	5.461G	61.79	68.20	-6.41	53.51	3	Horizontal	3	1.76	-	34.60	8.57	34.89
PK	5.7095G	126.39	Inf	-Inf	118.52	3	Horizontal	3	1.76	-	34.20	8.67	35.00
AV	5.7085G	115.13	Inf	-Inf	107.26	3	Horizontal	3	1.76	-	34.20	8.67	35.00
PK	5.855G	65.83	68.20	-2.37	57.86	3	Horizontal	3	1.76	-	34.32	8.72	35.07

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

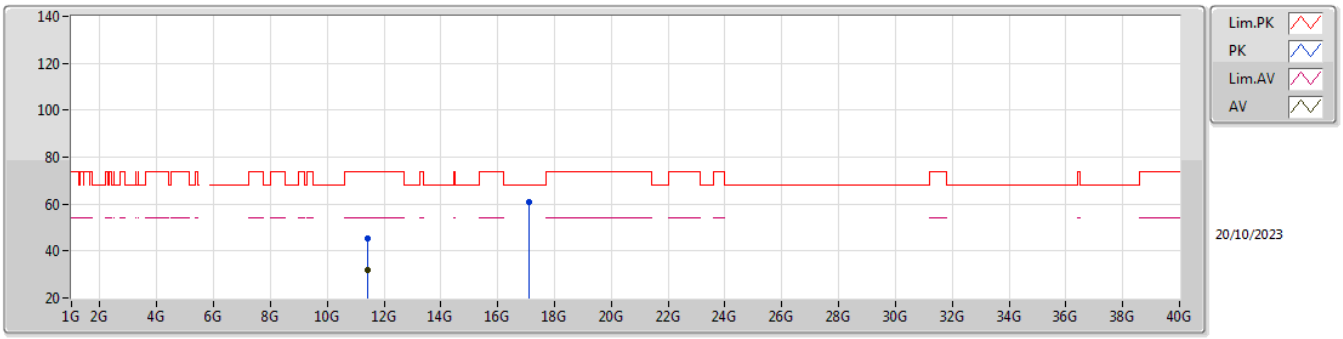


EUT Y_2TX
SET 25

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	11.42026G	45.30	74.00	-28.70	36.62	3	Vertical	208	1.55	-	38.76	13.19	43.27
AV	11.41546G	31.76	54.00	-22.24	23.09	3	Vertical	208	1.55	-	38.75	13.19	43.27
PK	17.12706G	61.04	68.20	-7.16	39.94	3	Vertical	111	1.05	-	40.28	22.88	42.06

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

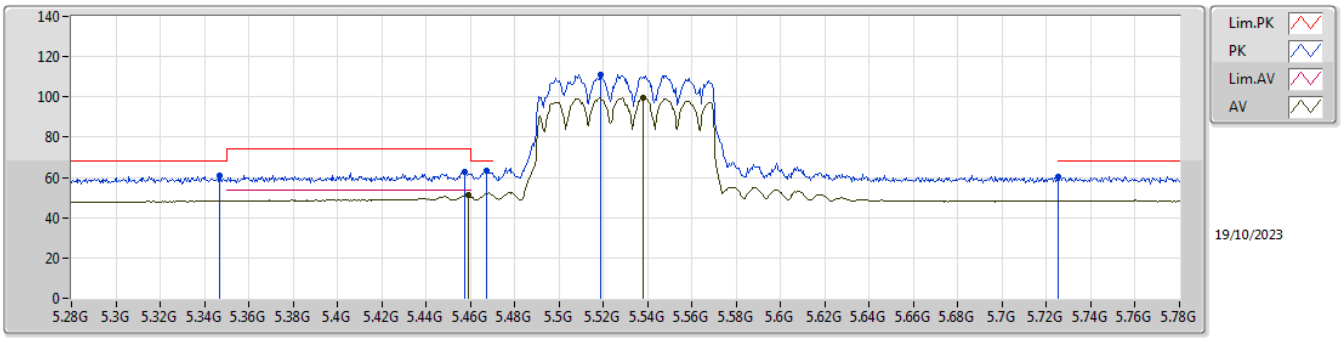


EUT Y_2TX
SET 25

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	11.41738G	45.59	74.00	-28.41	36.92	3	Horizontal	61	1.86	-	38.75	13.19	43.27
AV	11.41924G	31.75	54.00	-22.25	23.07	3	Horizontal	61	1.86	-	38.76	13.19	43.27
PK	17.11998G	60.98	68.20	-7.22	39.91	3	Horizontal	187	1.85	-	40.26	22.87	42.06

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TX

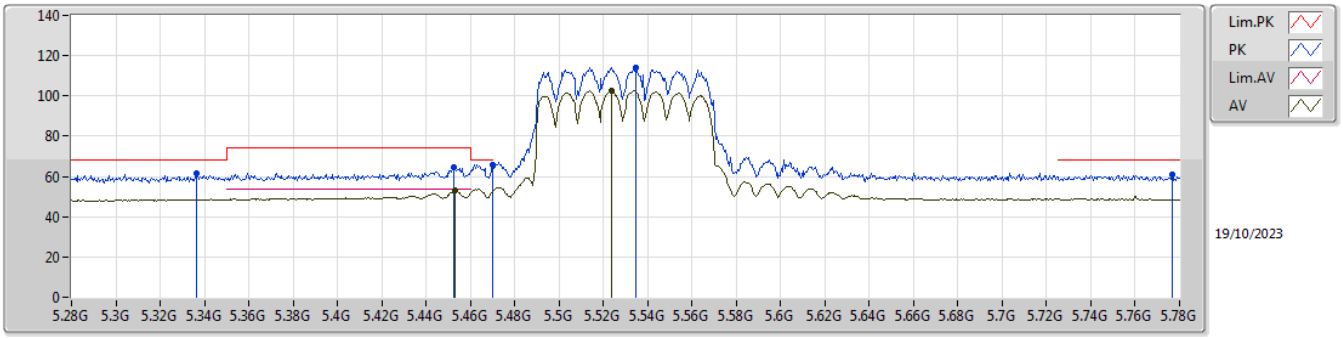


EUT Y_2TX
SET 15.5
15.5
2.88

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	5.347G	60.85	68.20	-7.35	52.80	3	Vertical	5	1.80	15.5	34.49	8.44	34.88
PK	5.4575G	62.67	74.00	-11.33	54.39	3	Vertical	5	1.80	15.5	34.60	8.57	34.89
AV	5.459G	51.12	54.00	-2.88	42.84	3	Vertical	5	1.80	15.5	34.60	8.57	34.89
PK	5.4675G	63.60	68.20	-4.60	55.33	3	Vertical	5	1.80	15.5	34.60	8.57	34.90
PK	5.5185G	111.20	Inf	-Inf	102.90	3	Vertical	5	1.80	15.5	34.60	8.61	34.91
AV	5.538G	99.66	Inf	-Inf	91.36	3	Vertical	5	1.80	15.5	34.60	8.62	34.92
PK	5.7255G	60.64	68.20	-7.56	52.78	3	Vertical	5	1.80	15.5	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TX

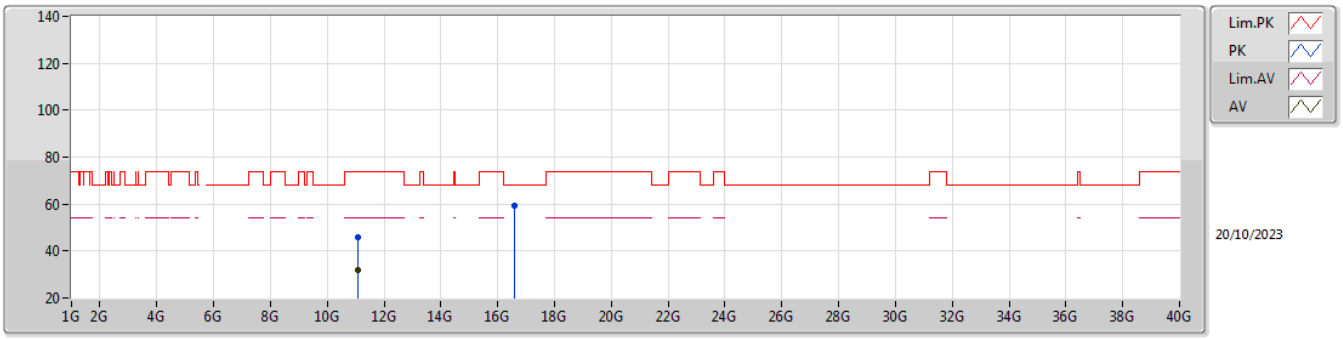


EUT Y_2TX
SET 15.5
15\18\16.5\16\15.5
2.20\-3.57\-1.13\-1.00\1.16

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	5.3365G	61.46	68.20	-6.74	53.47	3	Horizontal	5	1.40	15.5	34.45	8.42	34.88
PK	5.4525G	64.64	74.00	-9.36	56.37	3	Horizontal	5	1.40	15.5	34.60	8.56	34.89
AV	5.453G	52.84	54.00	-1.16	44.57	3	Horizontal	5	1.40	15.5	34.60	8.56	34.89
PK	5.47G	65.90	68.20	-2.30	57.62	3	Horizontal	5	1.40	15.5	34.60	8.58	34.90
PK	5.5345G	114.10	Inf	-Inf	105.80	3	Horizontal	5	1.40	15.5	34.60	8.62	34.92
AV	5.5235G	102.53	Inf	-Inf	94.23	3	Horizontal	5	1.40	15.5	34.60	8.61	34.91
PK	5.7765G	61.06	68.20	-7.14	53.16	3	Horizontal	5	1.40	15.5	34.25	8.68	35.03

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TX

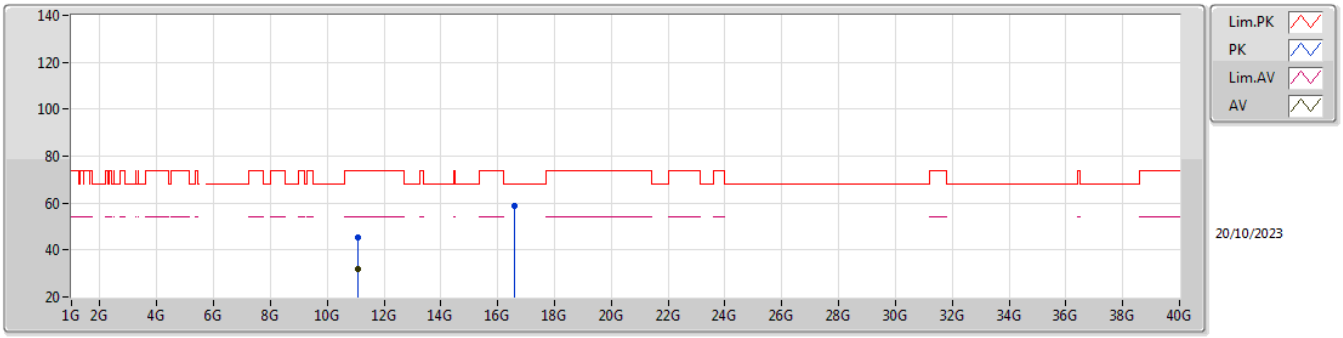


EUT Y_2TX
SET 15.5

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	11.06804G	45.70	74.00	-28.30	37.54	3	Vertical	69	1.90	-	38.37	12.92	43.13
AV	11.06812G	31.77	54.00	-22.23	23.61	3	Vertical	69	1.90	-	38.37	12.92	43.13
PK	16.60194G	59.15	68.20	-9.05	40.48	3	Vertical	321	2.24	-	38.41	21.96	41.70

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TX

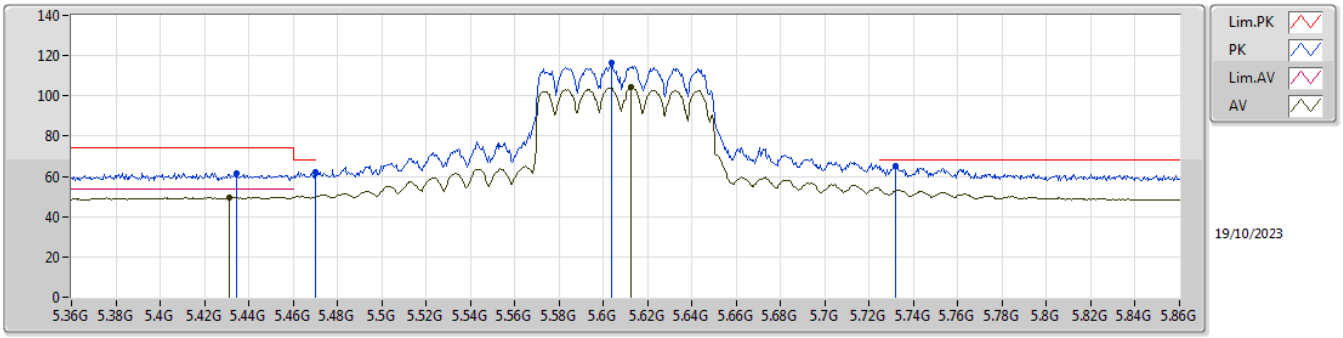


EUT Y_2TX
SET 15.5

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	11.06532G	45.19	74.00	-28.81	37.03	3	Horizontal	68	1.22	-	38.37	12.92	43.13
AV	11.06584G	31.82	54.00	-22.18	23.66	3	Horizontal	68	1.22	-	38.37	12.92	43.13
PK	16.5759G	58.62	68.20	-9.58	40.10	3	Horizontal	232	1.37	-	38.28	21.91	41.67

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5610MHz_TX

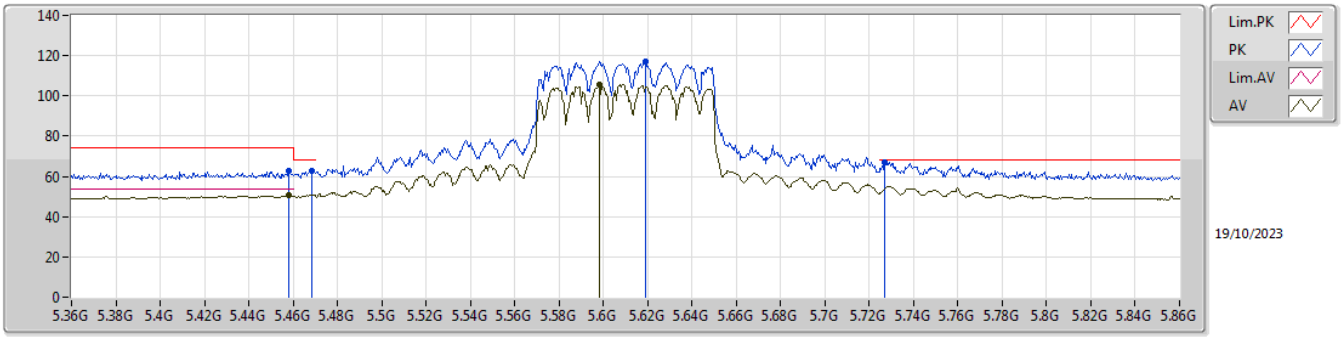


EUT Y_2TX
SET 21
21
3.26

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	5.4345G	61.70	74.00	-12.30	53.50	3	Vertical	21	1.43	21	34.54	8.55	34.89
AV	5.431G	49.67	54.00	-4.33	41.49	3	Vertical	21	1.43	21	34.52	8.55	34.89
PK	5.47G	62.32	68.20	-5.88	54.04	3	Vertical	21	1.43	21	34.60	8.58	34.90
PK	5.6035G	116.47	Inf	-Inf	108.36	3	Vertical	21	1.43	21	34.40	8.66	34.95
AV	5.6125G	104.14	Inf	-Inf	96.03	3	Vertical	21	1.43	21	34.40	8.66	34.95
PK	5.732G	64.94	68.20	-3.26	57.08	3	Vertical	21	1.43	21	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5610MHz_TX

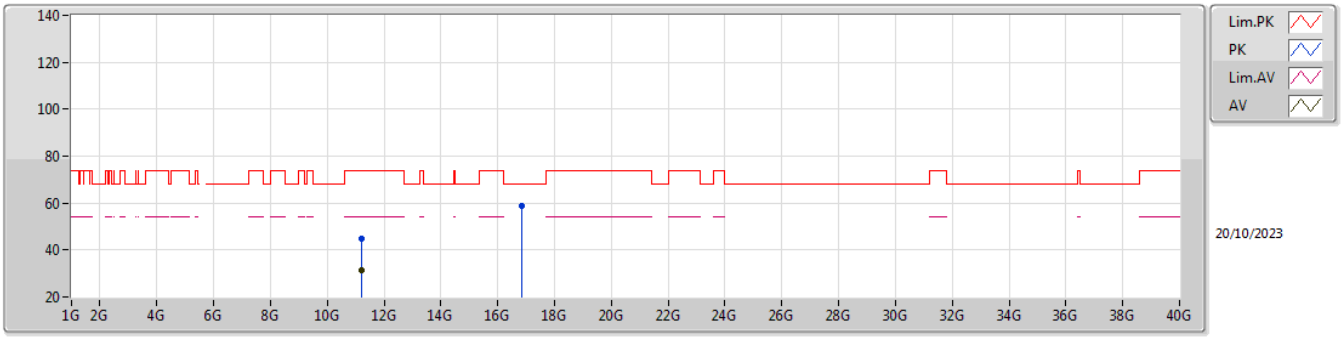


EUT Y_2TX
SET 21
15\21\24\22.5\22\21.5\21
5.02\1.04\-8.73\-3.92\-1.33\-1.84\1.10

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	5.458G	62.69	74.00	-11.31	54.41	3	Horizontal	12	1.54	21	34.60	8.57	34.89
AV	5.458G	50.40	54.00	-3.60	42.12	3	Horizontal	12	1.54	21	34.60	8.57	34.89
PK	5.4685G	62.61	68.20	-5.59	54.34	3	Horizontal	12	1.54	21	34.60	8.57	34.90
PK	5.619G	117.11	Inf	-Inf	109.01	3	Horizontal	12	1.54	21	34.40	8.66	34.96
AV	5.598G	105.51	Inf	-Inf	97.39	3	Horizontal	12	1.54	21	34.41	8.66	34.95
PK	5.727G	67.10	68.20	-1.10	59.24	3	Horizontal	12	1.54	21	34.20	8.67	35.01

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5610MHz_TX

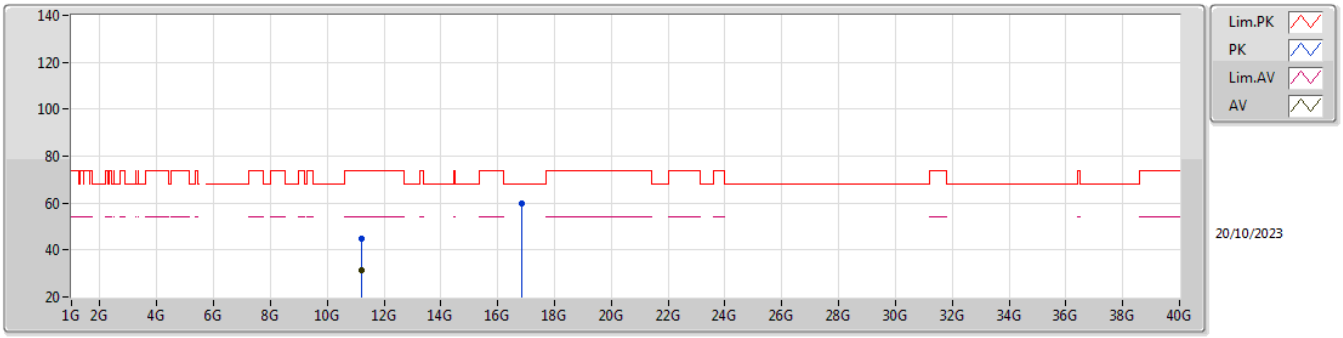


EUT Y_2TX
SET 21

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	11.21824G	44.97	74.00	-29.03	36.55	3	Vertical	29	2.23	-	38.58	13.03	43.19
AV	11.22112G	31.37	54.00	-22.63	22.94	3	Vertical	29	2.23	-	38.58	13.04	43.19
PK	16.8321G	58.96	68.20	-9.24	39.33	3	Vertical	330	2.66	-	39.20	22.36	41.93

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5610MHz_TX

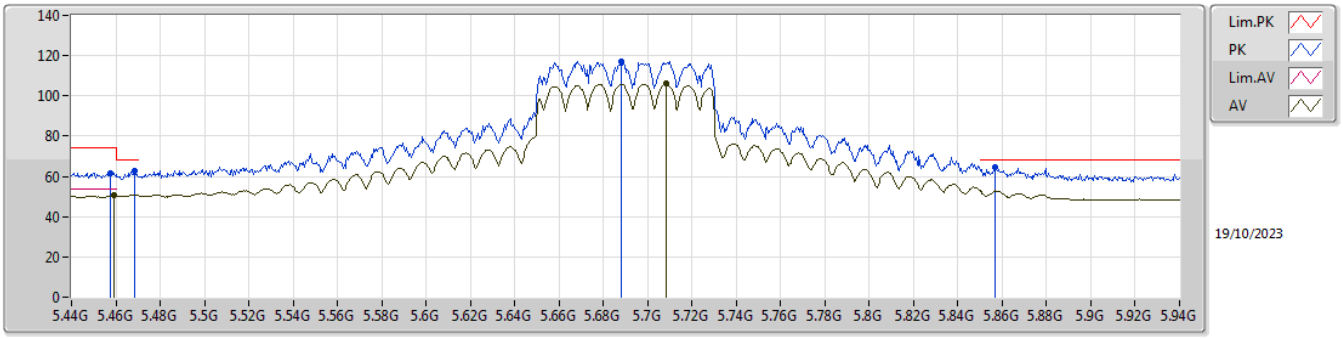


EUT Y_2TX
SET 21

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	11.22064G	44.85	74.00	-29.15	36.42	3	Horizontal	94	1.53	-	38.58	13.04	43.19
AV	11.22104G	31.33	54.00	-22.67	22.90	3	Horizontal	94	1.53	-	38.58	13.04	43.19
PK	16.8429G	59.67	68.20	-8.53	40.00	3	Horizontal	180	1.22	-	39.23	22.38	41.94

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.47-5.725GHz_TX

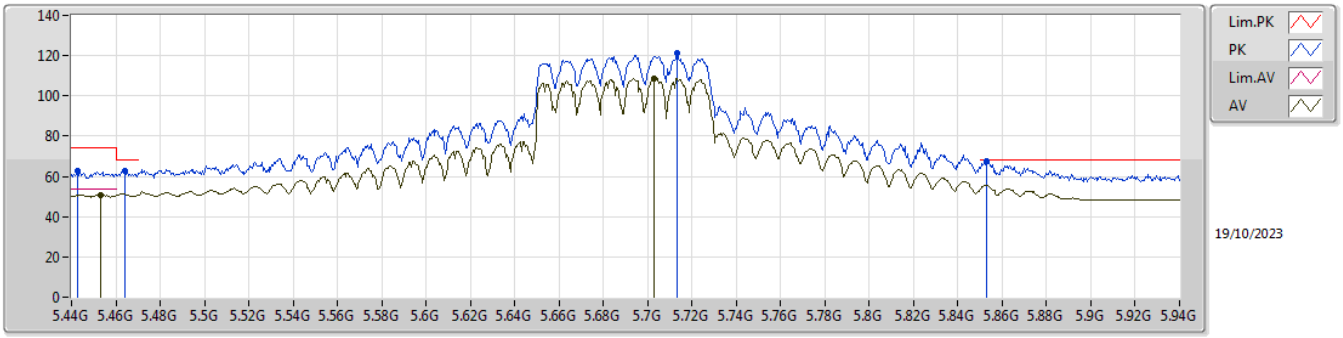


EUT Y_2TX
SET 23.5
23.5
3.39

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	5.4575G	61.44	74.00	-12.56	53.16	3	Vertical	360	1.46	23.5	34.60	8.57	34.89
AV	5.459G	50.61	54.00	-3.39	42.33	3	Vertical	360	1.46	23.5	34.60	8.57	34.89
PK	5.4685G	62.93	68.20	-5.27	54.66	3	Vertical	360	1.46	23.5	34.60	8.57	34.90
PK	5.688G	117.34	Inf	-Inf	109.41	3	Vertical	360	1.46	23.5	34.25	8.67	34.99
AV	5.7085G	106.17	Inf	-Inf	98.30	3	Vertical	360	1.46	23.5	34.20	8.67	35.00
PK	5.8565G	64.33	68.20	-3.87	56.35	3	Vertical	360	1.46	23.5	34.33	8.72	35.07

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.47-5.725GHz_TX

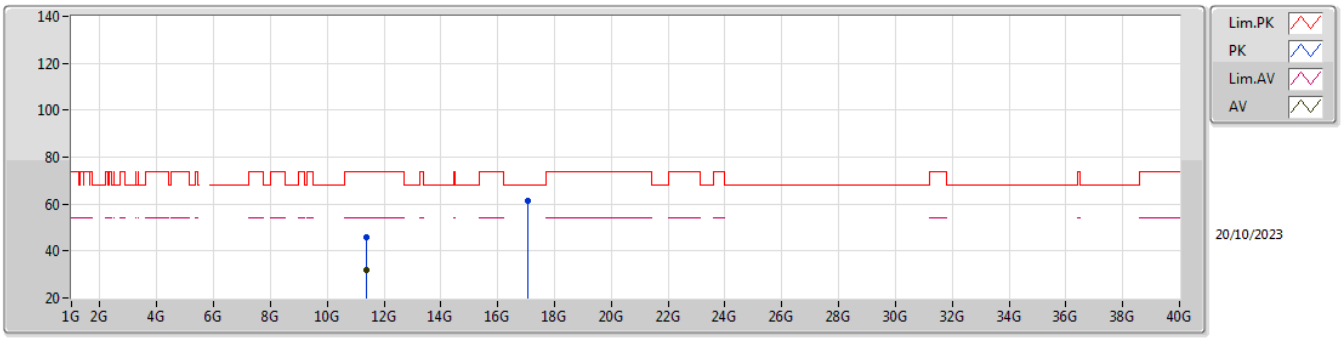


EUT Y_2TX
SET 23.5
15\21\24\22.5\23\23.5
5.27\4.68\-0.99\2.90\2.16\0.65

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	5.443G	62.61	74.00	-11.39	54.37	3	Horizontal	5	1.72	23.5	34.57	8.56	34.89
AV	5.453G	50.83	54.00	-3.17	42.56	3	Horizontal	5	1.72	23.5	34.60	8.56	34.89
PK	5.464G	63.03	68.20	-5.17	54.75	3	Horizontal	5	1.72	23.5	34.60	8.57	34.89
PK	5.7135G	121.10	Inf	-Inf	113.23	3	Horizontal	5	1.72	23.5	34.20	8.67	35.00
AV	5.703G	108.81	Inf	-Inf	100.94	3	Horizontal	5	1.72	23.5	34.20	8.67	35.00
PK	5.853G	67.55	68.20	-0.65	59.59	3	Horizontal	5	1.72	23.5	34.31	8.72	35.07

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.47-5.725GHz_TX

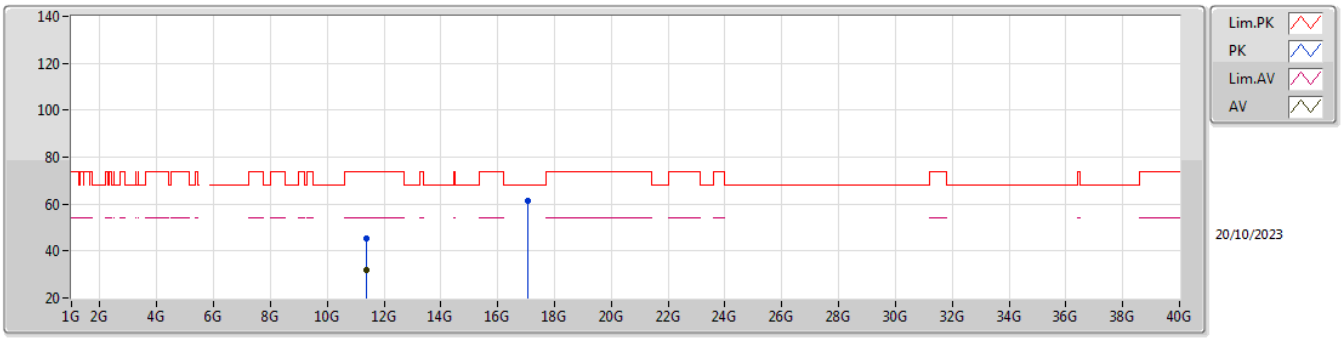


EUT Y_2TX
SET 23.5

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	11.38398G	45.77	74.00	-28.23	37.19	3	Vertical	251	2.45	-	38.67	13.16	43.25
AV	11.37506G	31.89	54.00	-22.11	23.33	3	Vertical	251	2.45	-	38.65	13.16	43.25
PK	17.0814G	61.13	68.20	-7.07	40.24	3	Vertical	310	1.99	-	40.16	22.80	42.07

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.47-5.725GHz_TX



EUT Y_2TX
SET 23.5

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	11.38002G	45.59	74.00	-28.41	37.02	3	Horizontal	127	2.17	-	38.66	13.16	43.25
AV	11.37932G	31.92	54.00	-22.08	23.35	3	Horizontal	127	2.17	-	38.66	13.16	43.25
PK	17.0763G	61.53	68.20	-6.67	40.66	3	Horizontal	186	1.27	-	40.15	22.79	42.07