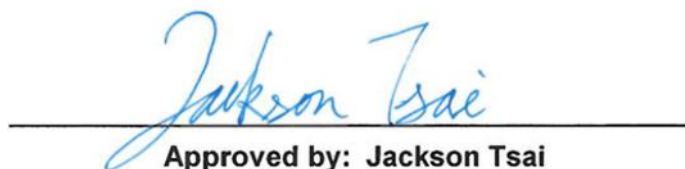


FCC Radio Test Report

FCC ID : 2ABLK-GS2029E
Equipment : GigaSpire
Brand Name : Calix
Model Name : u4.2 GS2029E
Applicant : Calix Inc.
1 Santana West 3155 Olsen Drive, Suite 450, San Jose
California United States 95117
Manufacturer : Calix Inc.
1 Santana West 3155 Olsen Drive, Suite 450, San Jose
California United States 95117
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 30, 2024, and testing was started from Oct. 21, 2024 and completed on Feb. 25, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver4.5
FCC ID: 2ABLK-GS2029E

Summary of Test Result

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

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.

Reviewed by: Ben Tseng

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]

Non-Beamforming

Band	Mode	BWch	Nant
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Beamforming

Band	Mode	BWch	Nant
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Evaluated HEW20/HEW40/HEW80 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Pegatron	1415-0AVK000	dipole	I-PEX	2.4G
2	Pegatron	1415-0AVJ000	dipole	I-PEX	2.4G
3	Pegatron	1415-0AVH000	dipole	I-PEX	5G
4	Pegatron	1415-0AVG000	dipole	I-PEX	5G

Ant.	Port	Gain (dBi)				
		2.4G	5G			
			UNII-1	UNII-2A	UNII-2C	UNII-3
1	1	3.26	-	-	-	-
2	2	2.75	-	-	-	-
3	1	-	3.43	3.51	3.58	3.91
4	2	-	3.08	3.51	3.36	3.39

		Composite Gain (dBi)				
		2.4G	5G			
			UNII-1	UNII-2A	UNII-2C	UNII-3
DG [1SS]		4.1	4.6	4.5	4.8	5.1

Note 1: The EUT has four antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.



1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☐ Outdoor AP	☒ Indoor AP	
	☐ Fixed P2P AP	☐ Client	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Resource Unit	☒ Full RU	☐ Partial RU	
	☐ MRU(static preamble puncturing)	☐ MRU(dynamic preamble puncturing)	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_2TX	0.942	0.26	1.977m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.978	0.1	5.419m	200
802.11ax HEW40_Nss1,(MCS0)_2TX	0.975	0.11	3.841m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.957	0.19	2.201m	500

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.978	0.1	5.419m	200
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.975	0.11	3.841m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.957	0.19	2.201m	500

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

**1.1.5 Table for Permissive Change**

This product is an extension of original one reported under Sporton project number: FR491301AN

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

Modifications	Performance Checking
1.Frequency bands U-NII-2A and U-NII-2C were added. 2.Switching Mode Power Adapter was added.	All test items.

1.1.6 Table for EUT Supports Functions

Function
AP Router
Bridge
Extender

Note 1: The above information was declared by manufacturer.

1.2 Testing Applied 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
- ♦ KDB 789033 D02 v02r01

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 662911 D03 v02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Lego Lin	21.5~22.7°C / 50~55%	20/Feb/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	23.4~23.9°C / 52~55%	24/Oct/2024~14/Nov/2024
Radiated (Co-location)	03CH26-HY	Rian Chung	20.3~21.7°C / 54~56%	12/Nov/2024
Radiated (Below 1GHz)	03CH26-HY	Ivan Chung	20.3~20.7°C / 50~53%	25/Feb/2025
Radiated (Above 1GHz)	03CH26-HY	Andy Wang	20.2~21.6°C / 51~54%	21/Oct/2024~19/Nov/2024

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Qualcomm® Radio Control Toolkit v4.0
-----------------------	--------------------------------------

Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	20
5300MHz	20
5320MHz	20
5500MHz	20
5580MHz	20
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	21
5580MHz	21
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	20
5310MHz	20
5510MHz	19
5550MHz	20
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	18.5
5530MHz	20
5610MHz	20.5
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5

**Beamforming**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	21
5580MHz	21
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	21
5720MHz Straddle 5.725-5.85GHz	21
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	20
5310MHz	20
5510MHz	19
5550MHz	20
5670MHz	20
5710MHz Straddle 5.47-5.725GHz	20.5
5710MHz Straddle 5.725-5.85GHz	20.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	18.5
5530MHz	20
5610MHz	20.5
5690MHz Straddle 5.47-5.725GHz	20.5
5690MHz Straddle 5.725-5.85GHz	20.5

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	Adapter Mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA491301-01 for Co-location RF Exposure Evaluation.	

2.3 Accessories

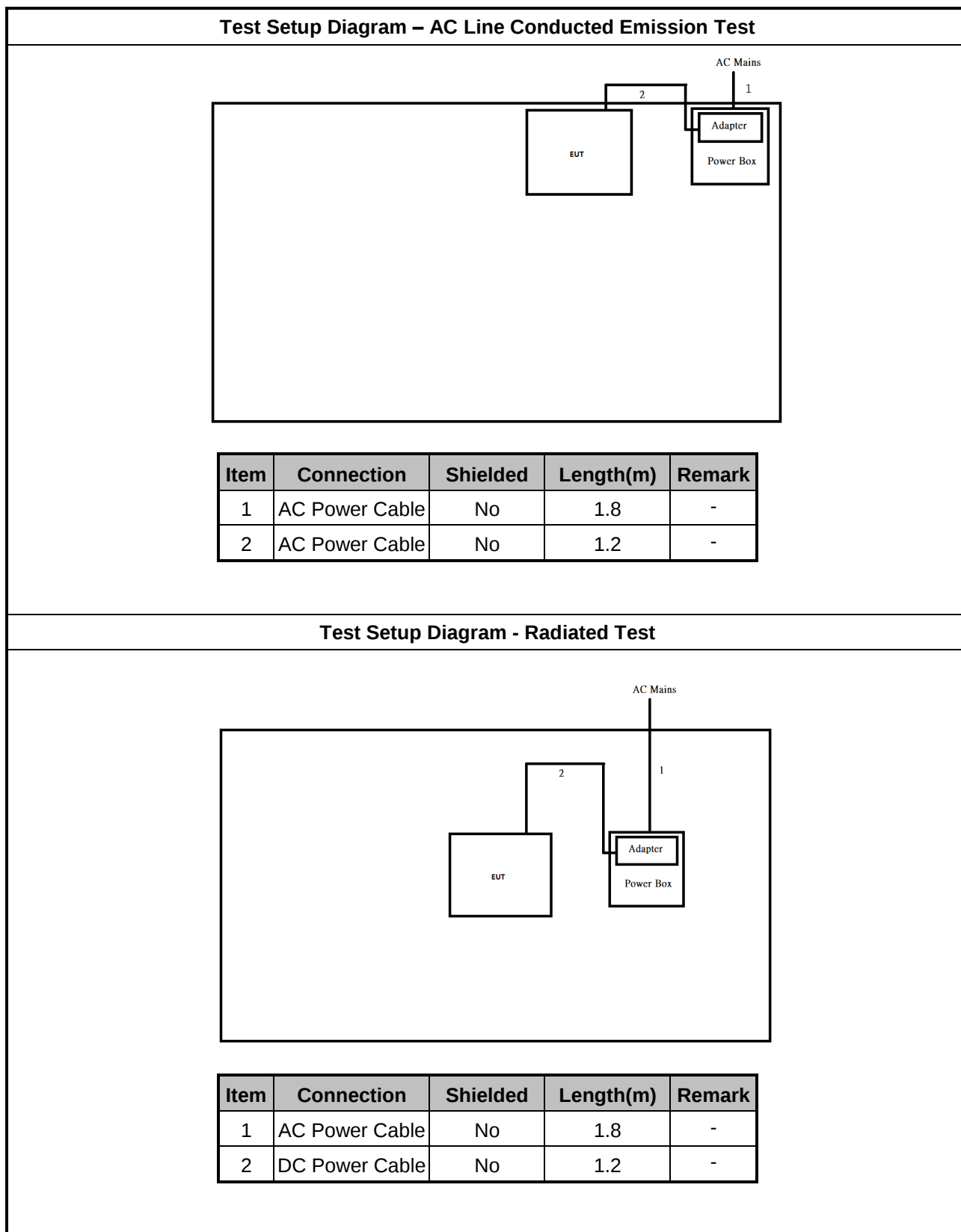
Accessories				
AC/DC Adapter	Brand Name	MOSO	Model Name	MS-V2000R120-024Q0-US
	Power Rating	I/P: 100- 240Vac, 0.7A, O/P: 12.0 Vdc, 2.0 A		
Switching Mode Power Adapter (Add)	Brand Name	Frecom	Model Name	F24L9-120200SPAU
	Power Rating	I/P:100-240 Vac, 0.6A, O/P: 12.0 Vdc, 2.0 A		

Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

2.5 Test Setup Diagram



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

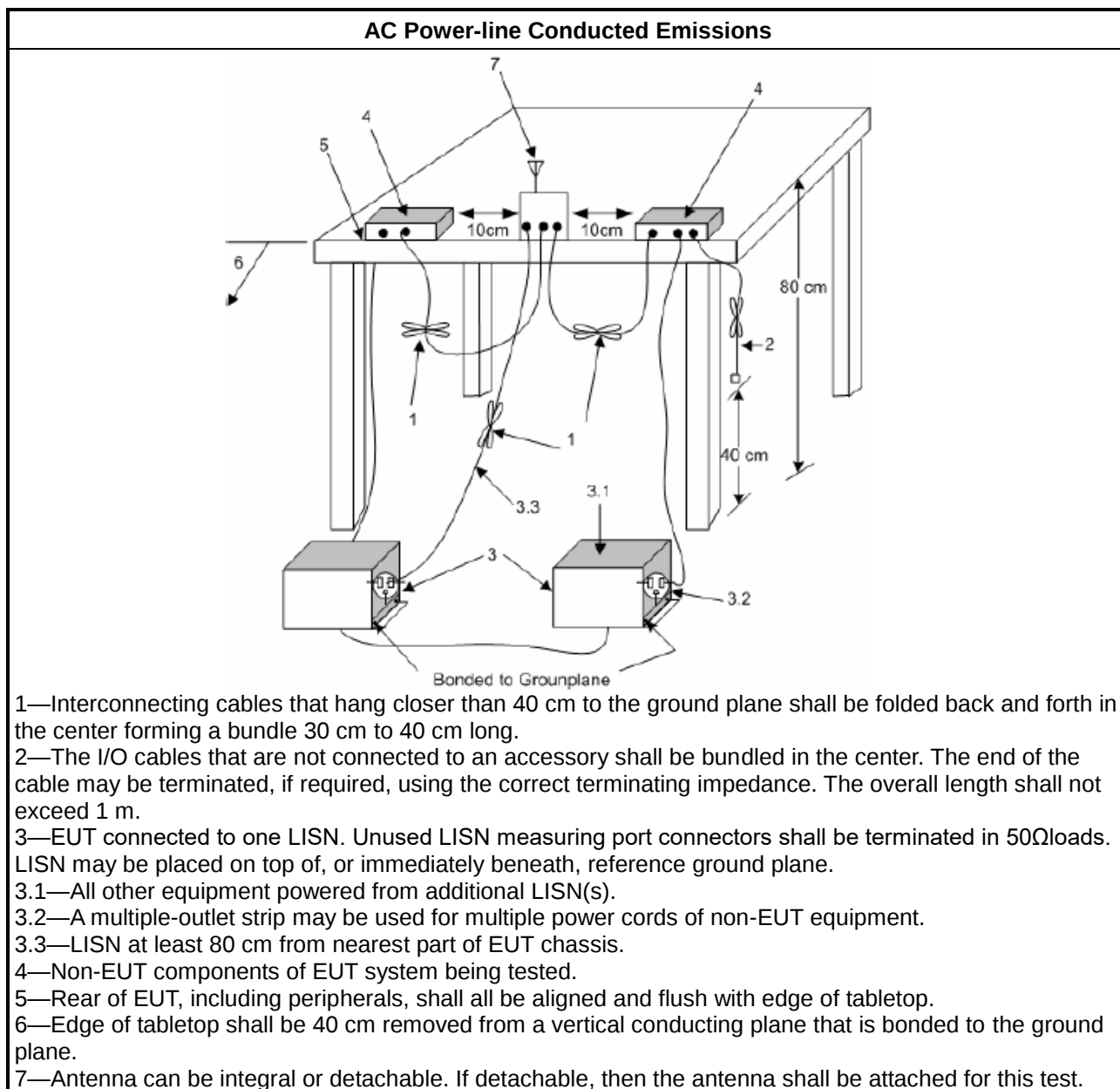
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



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, N/A
☒	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

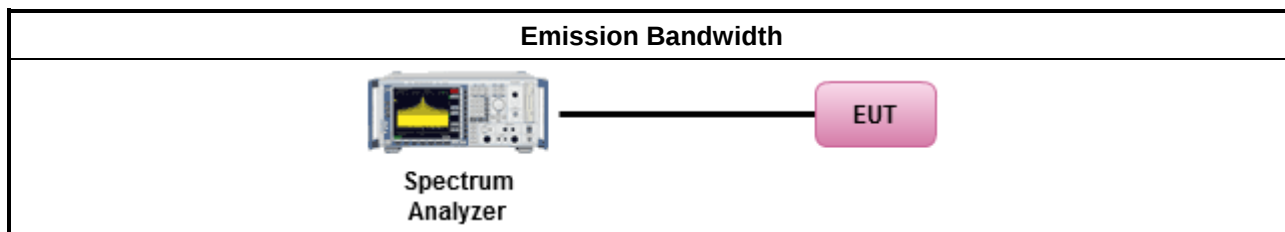
3.2.2 Measuring Instruments

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 KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band:
☐	Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed 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 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 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 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 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 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 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 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

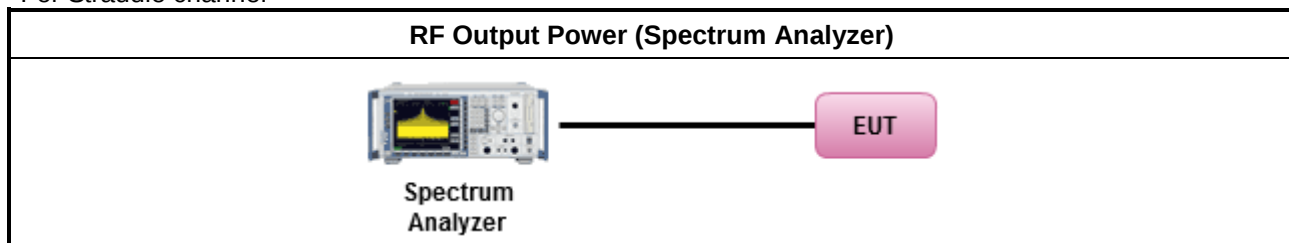
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

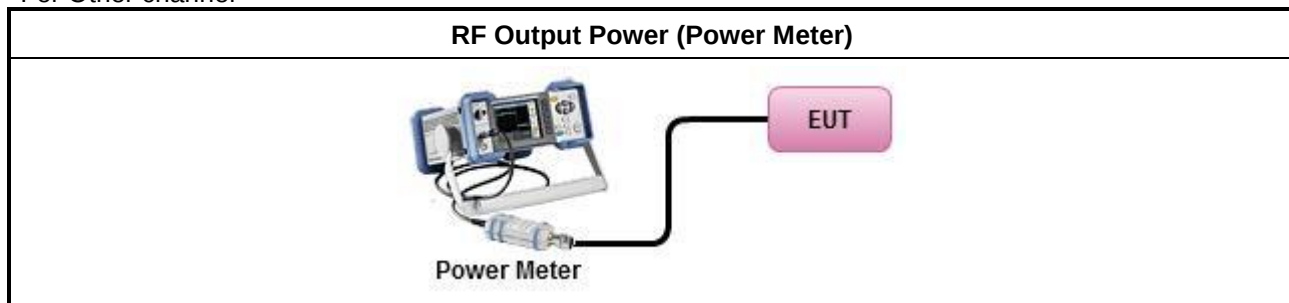
Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as 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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup

For Straddle channel



For Other channel



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
	Outdoor AP: the peak power spectral density (PPSD) shall not exceed 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 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 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.
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.	

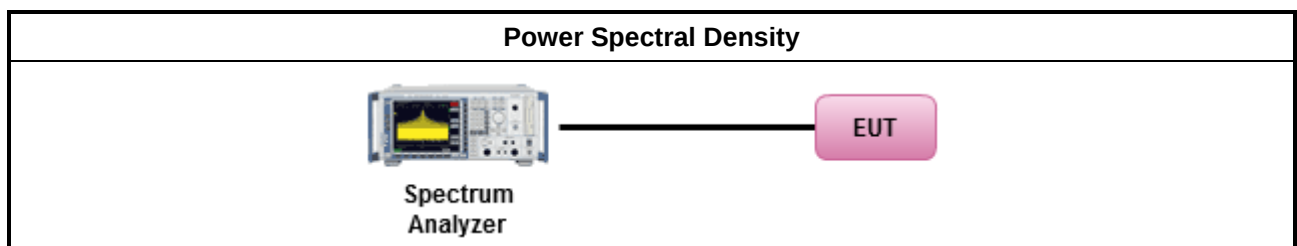
3.4.2 Measuring Instruments

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 KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging). Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
- Measure and sum the spectra across the outputs. Refer as 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.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated 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	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

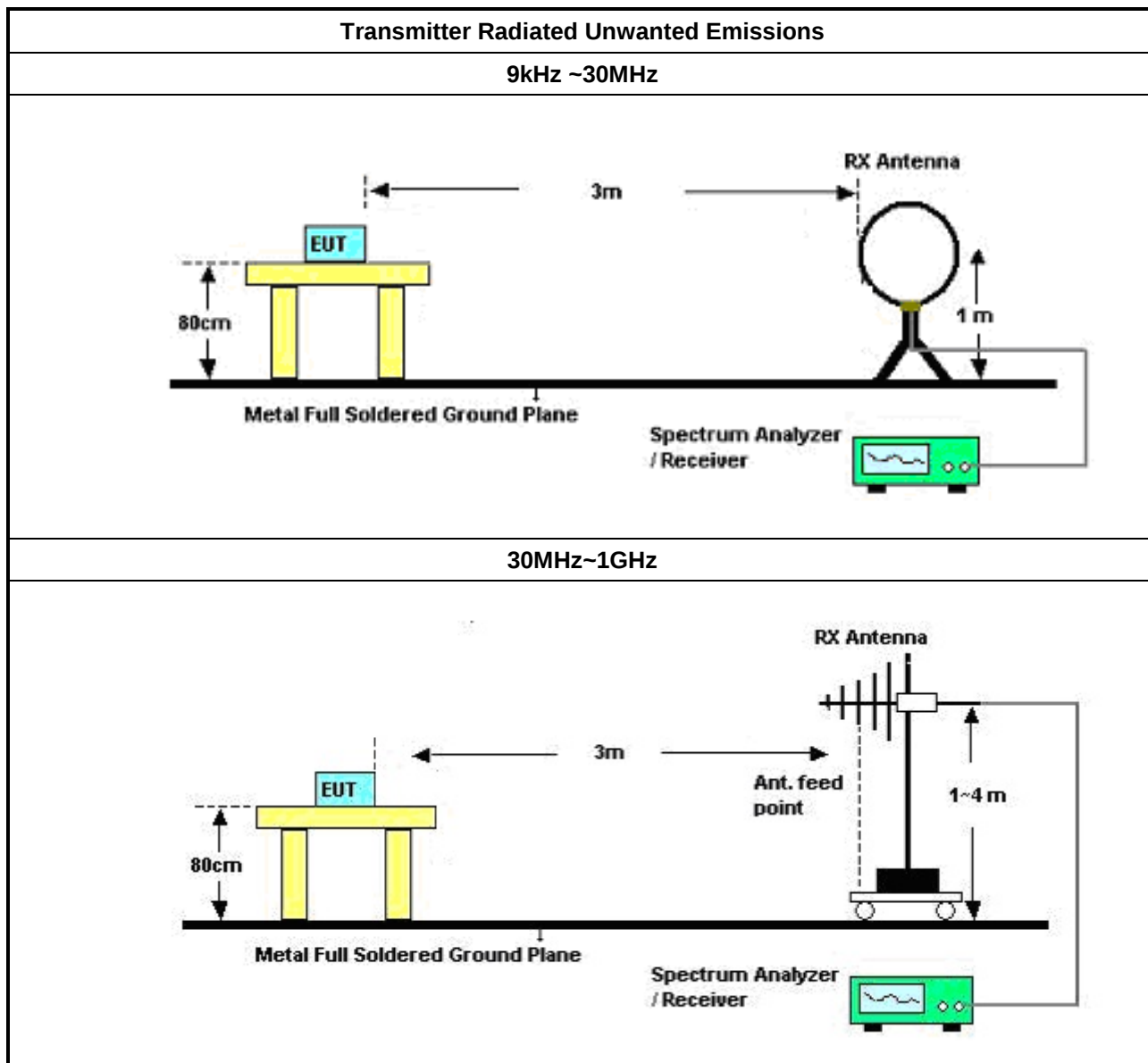
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 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 $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (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.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

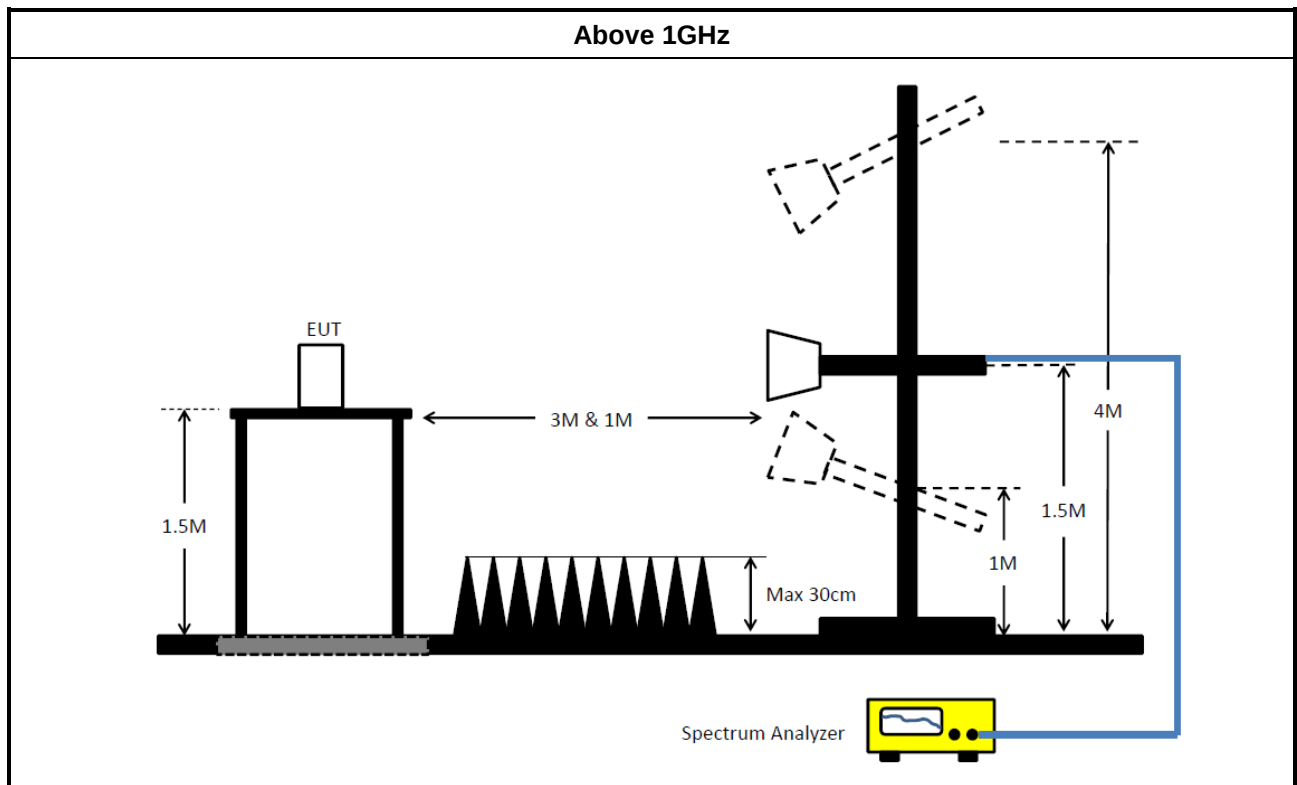
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
LISN(Artificial Mains Network)	SCHWARZBECK	NSLK 8127	8127477	9kHz ~ 30MHz	12/Apr/2024	11/Apr/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV3044	101410	10Hz~44GHz	17/Nov/2023	16/Nov/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15407_NII	Sporton	V5.11.20	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Below 1GHz)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	05/Jun/2024	04/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
SENSE-15407-NII	Sporton	V5.11.23	NA	NA	NA	NA

**Instrument for Radiated Test (Above 1GHz)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	05/Oct/2024	04/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Preamplifier	Agilent	8449B	3008A02602	1GHz ~18GHz	15/Mar/2024	14/Mar/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15407-NII	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

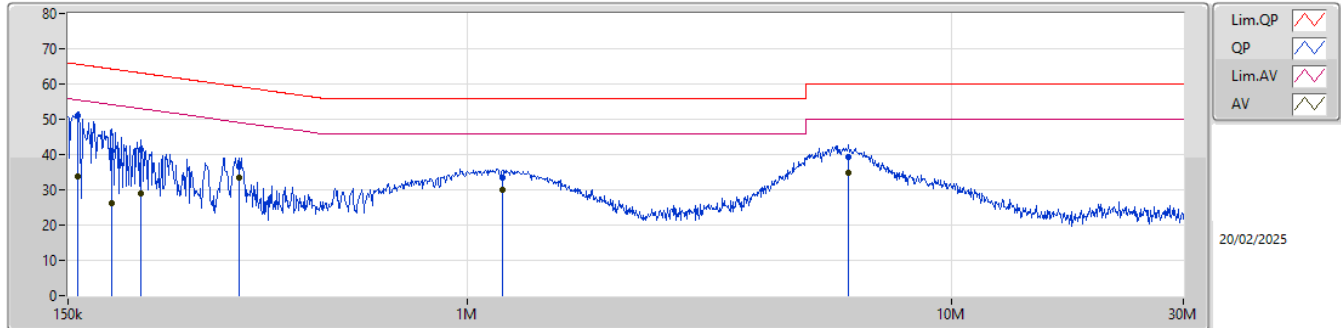
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.361k	50.90	65.60	-14.70	Line

Result

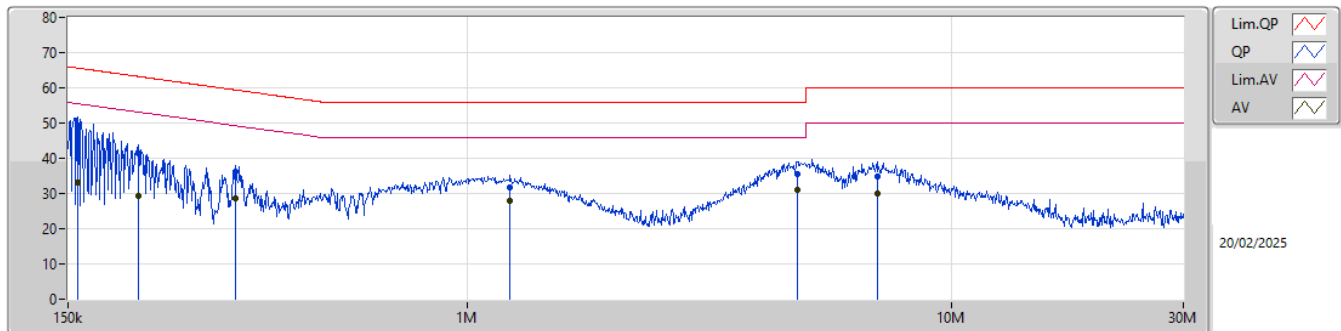
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.361k	50.90	65.60	-14.70	Line
Mode 1	Pass	AV	157.361k	33.78	55.60	-21.82	Line
Mode 1	Pass	QP	184.605k	41.20	64.28	-23.08	Line
Mode 1	Pass	AV	184.605k	26.16	54.28	-28.12	Line
Mode 1	Pass	QP	211.442k	41.40	63.15	-21.75	Line
Mode 1	Pass	AV	211.442k	28.86	53.15	-24.29	Line
Mode 1	Pass	QP	337.314k	36.55	59.27	-22.72	Line
Mode 1	Pass	AV	337.314k	33.55	49.27	-15.72	Line
Mode 1	Pass	QP	1.181M	33.36	56.00	-22.64	Line
Mode 1	Pass	AV	1.181M	29.89	46.00	-16.11	Line
Mode 1	Pass	QP	6.119M	39.40	60.00	-20.60	Line
Mode 1	Pass	AV	6.119M	34.88	50.00	-15.12	Line
Mode 1	Pass	QP	156.734k	49.32	65.64	-16.32	Neutral
Mode 1	Pass	AV	156.734k	33.06	55.64	-22.58	Neutral
Mode 1	Pass	QP	209.76k	41.38	63.21	-21.83	Neutral
Mode 1	Pass	AV	209.76k	29.34	53.21	-23.87	Neutral
Mode 1	Pass	QP	333.299k	36.09	59.37	-23.28	Neutral
Mode 1	Pass	AV	333.299k	28.79	49.37	-20.58	Neutral
Mode 1	Pass	QP	1.225M	31.64	56.00	-24.36	Neutral
Mode 1	Pass	AV	1.225M	27.90	46.00	-18.10	Neutral
Mode 1	Pass	QP	4.797M	35.35	56.00	-20.65	Neutral
Mode 1	Pass	AV	4.797M	30.98	46.00	-15.02	Neutral
Mode 1	Pass	QP	7.009M	34.70	60.00	-25.30	Neutral
Mode 1	Pass	AV	7.009M	30.07	50.00	-19.93	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	157.361k	50.90	65.60	-14.70	19.70	Line	-	31.20	9.66	0.07	9.97						
AV	157.361k	33.78	55.60	-21.82	19.70	Line	-	14.08	9.66	0.07	9.97						
QP	184.605k	41.20	64.28	-23.08	19.70	Line	-	21.50	9.65	0.08	9.97						
AV	184.605k	26.16	54.28	-28.12	19.70	Line	-	6.46	9.65	0.08	9.97						
QP	211.442k	41.40	63.15	-21.75	19.71	Line	-	21.69	9.65	0.09	9.97						
AV	211.442k	28.86	53.15	-24.29	19.71	Line	-	9.15	9.65	0.09	9.97						
QP	337.314k	36.55	59.27	-22.72	19.74	Line	-	16.81	9.65	0.11	9.98						
AV	337.314k	33.55	49.27	-15.72	19.74	Line	-	13.81	9.65	0.11	9.98						
QP	1.181M	33.36	56.00	-22.64	19.73	Line	-	13.63	9.66	0.09	9.98						
AV	1.181M	29.89	46.00	-16.11	19.73	Line	-	10.16	9.66	0.09	9.98						
QP	6.119M	39.40	60.00	-20.60	19.74	Line	-	19.66	9.70	0.06	9.98						
AV	6.119M	34.88	50.00	-15.12	19.74	Line	-	15.14	9.70	0.06	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	156.734k	49.32	65.64	-16.32	19.64	Neutral	-	29.68	9.60	0.07	9.97						
AV	156.734k	33.06	55.64	-22.58	19.64	Neutral	-	13.42	9.60	0.07	9.97						
QP	209.76k	41.38	63.21	-21.83	19.66	Neutral	-	21.72	9.60	0.09	9.97						
AV	209.76k	29.34	53.21	-23.87	19.66	Neutral	-	9.68	9.60	0.09	9.97						
QP	333.299k	36.09	59.37	-23.28	19.69	Neutral	-	16.40	9.60	0.11	9.98						
AV	333.299k	28.79	49.37	-20.58	19.69	Neutral	-	9.10	9.60	0.11	9.98						
QP	1.225M	31.64	56.00	-24.36	19.69	Neutral	-	11.95	9.61	0.10	9.98						
AV	1.225M	27.90	46.00	-18.10	19.69	Neutral	-	8.21	9.61	0.10	9.98						
QP	4.797M	35.35	56.00	-20.65	19.68	Neutral	-	15.67	9.63	0.07	9.98						
AV	4.797M	30.98	46.00	-15.02	19.68	Neutral	-	11.30	9.63	0.07	9.98						
QP	7.009M	34.70	60.00	-25.30	19.68	Neutral	-	15.02	9.64	0.06	9.98						
AV	7.009M	30.07	50.00	-19.93	19.68	Neutral	-	10.39	9.64	0.06	9.98						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.415M	16.38M	16M4D1D	18.59M	16.327M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.285M	18.962M	19M0D1D	20.68M	18.828M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.48M	37.739M	37M7D1D	39.38M	37.619M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.96M	77.167M	77M2D1D	80.3M	77.108M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.8M	16.417M	16M4D1D	14.445M	13.146M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.23M	18.936M	18M9D1D	15.39M	14.387M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.59M	37.797M	37M8D1D	34.755M	33.671M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.62M	77.374M	77M4D1D	75.675M	73.026M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.18M	3.543M	3M54D1D	3.14M	3.536M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.6M	4.57M	4M57D1D	4.52M	4.558M
802.11ax HEW40_Nss1,(MCS0)_2TX	4.1M	4.096M	4M10D1D	4.04M	4.066M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.08M	4.217M	4M22D1D	4.02M	4.181M

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)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	18.59M	16.374M	19.195M	16.327M
5300MHz	Pass	Inf	18.92M	16.377M	19.14M	16.38M
5320MHz	Pass	Inf	19.085M	16.373M	19.415M	16.356M
5500MHz	Pass	Inf	18.645M	16.407M	19.8M	16.409M
5580MHz	Pass	Inf	18.04M	16.379M	18.59M	16.327M
5700MHz	Pass	Inf	19.36M	16.345M	19.635M	16.417M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.445M	13.146M	14.715M	13.186M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.536M	3.18M	3.543M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.955M	18.962M	20.9M	18.952M
5300MHz	Pass	Inf	21.285M	18.86M	20.845M	18.906M
5320MHz	Pass	Inf	20.68M	18.828M	20.955M	18.899M
5500MHz	Pass	Inf	21.23M	18.926M	21.01M	18.884M
5580MHz	Pass	Inf	20.735M	18.905M	20.24M	18.936M
5700MHz	Pass	Inf	19.8M	18.916M	19.91M	18.863M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.495M	14.388M	15.39M	14.387M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.6M	4.558M	4.52M	4.57M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.48M	37.638M	39.82M	37.739M
5310MHz	Pass	Inf	40.26M	37.619M	39.38M	37.735M
5510MHz	Pass	Inf	40.26M	37.774M	40.15M	37.494M
5550MHz	Pass	Inf	40.59M	37.735M	39.71M	37.797M
5670MHz	Pass	Inf	39.71M	37.622M	39.93M	37.628M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.755M	33.671M	34.965M	33.912M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.1M	4.096M	4.04M	4.066M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	80.3M	77.108M	80.96M	77.167M
5530MHz	Pass	Inf	79.2M	76.962M	79.2M	77.261M
5610MHz	Pass	Inf	81.62M	76.74M	81.18M	77.374M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.675M	73.026M	75.825M	73.311M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.181M	4.08M	4.217M

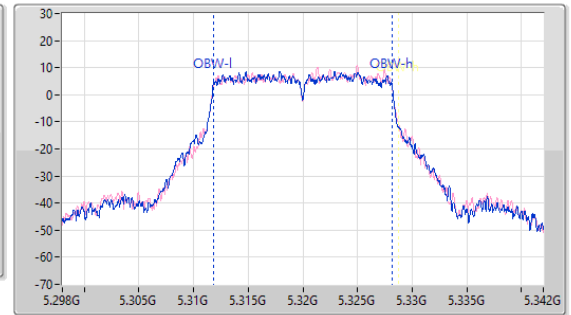
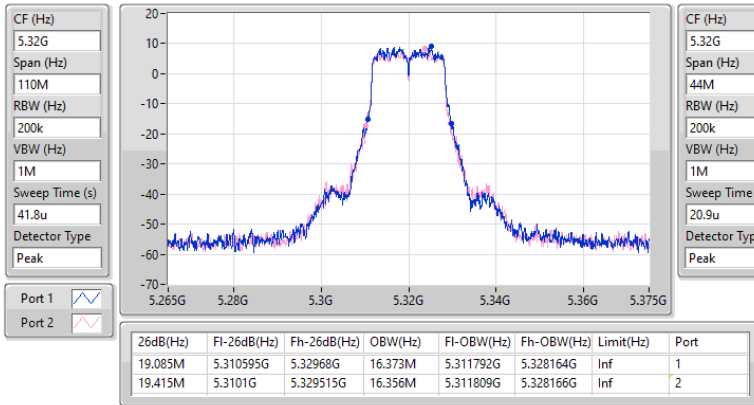
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

24/10/2024

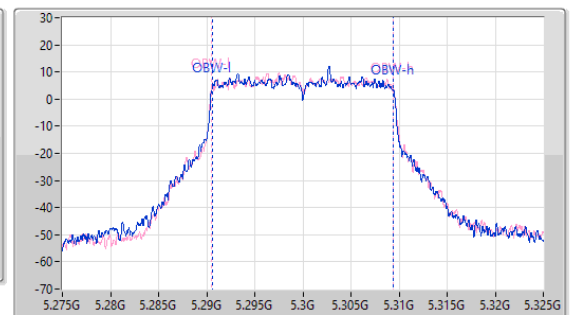
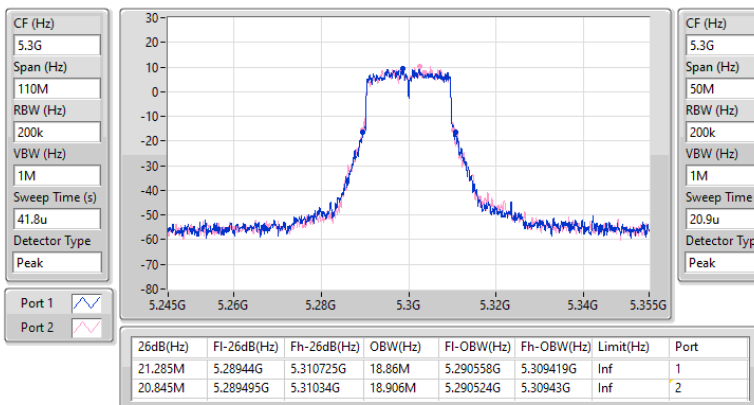


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5300MHz

24/10/2024

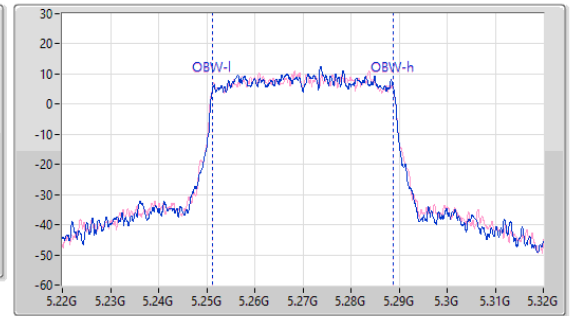
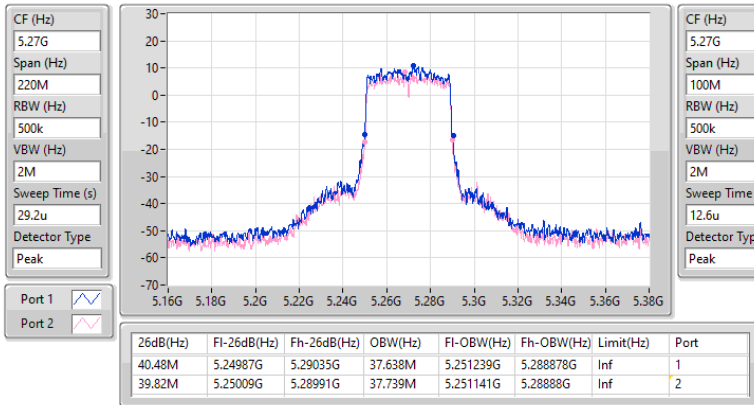


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5270MHz

24/10/2024

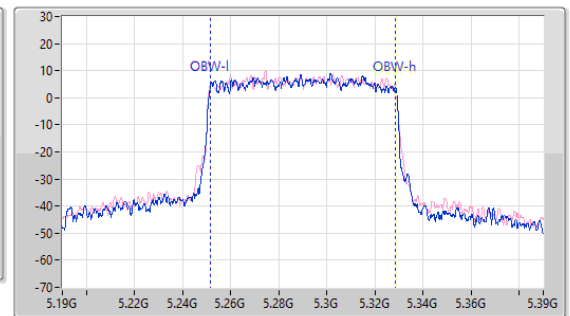
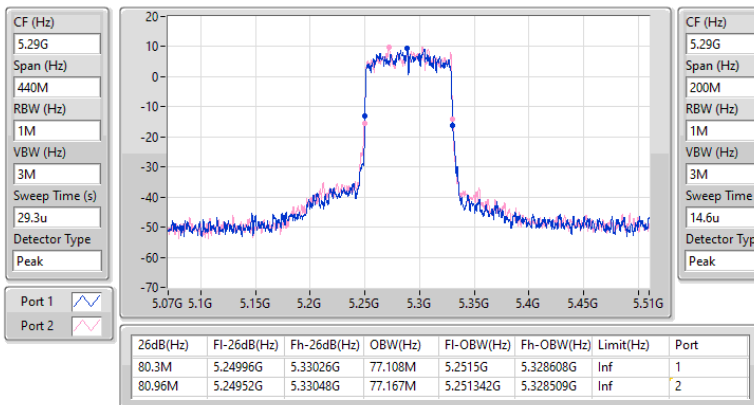


5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

24/10/2024

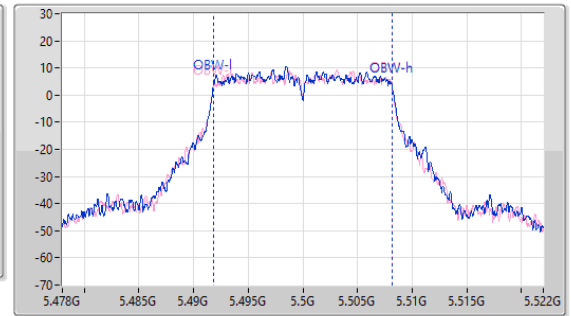
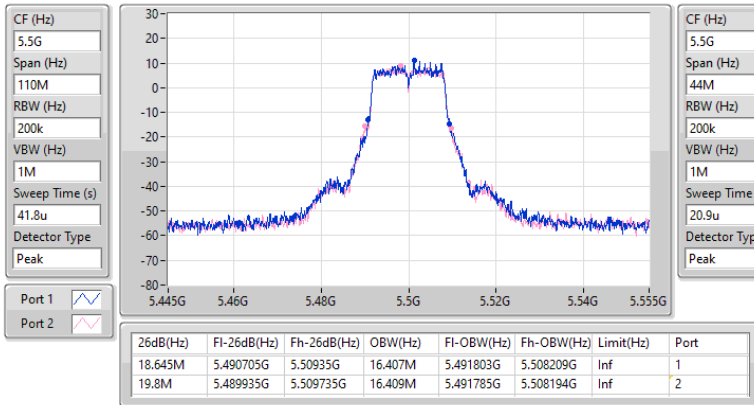


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

24/10/2024

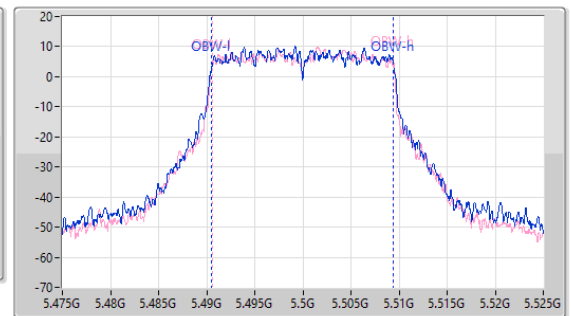
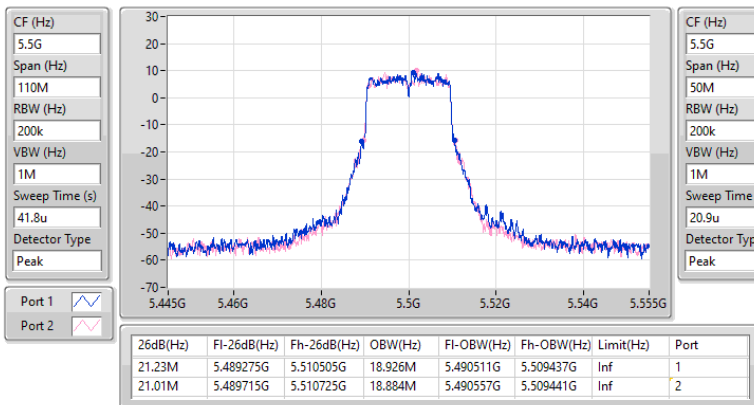


5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5500MHz

24/10/2024

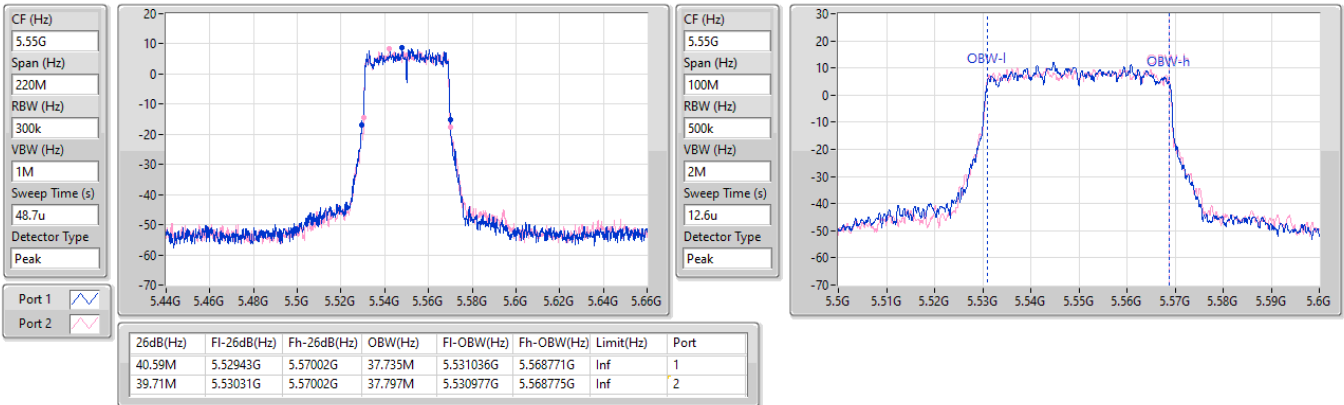


5.47-5.725GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5550MHz

24/10/2024

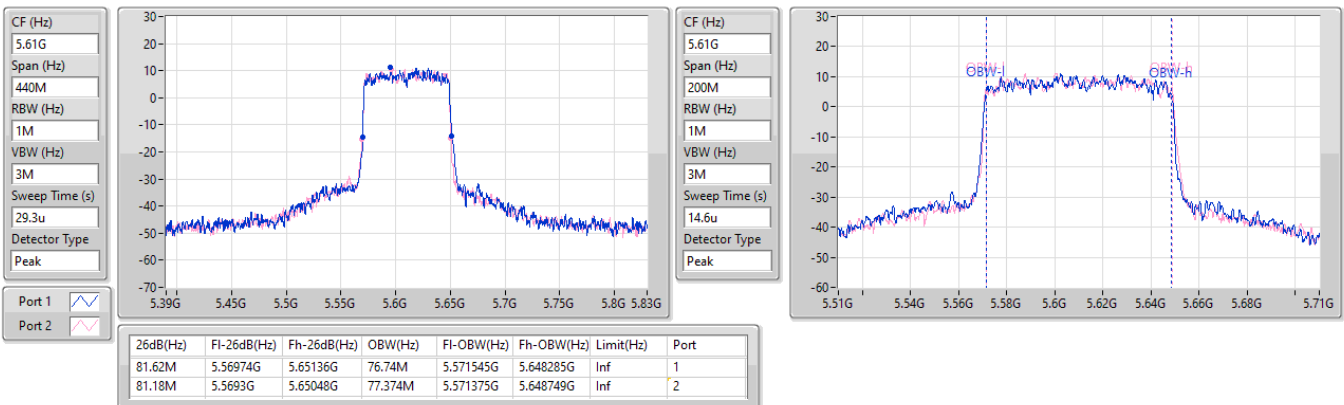


5.47-5.725GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5610MHz

24/10/2024

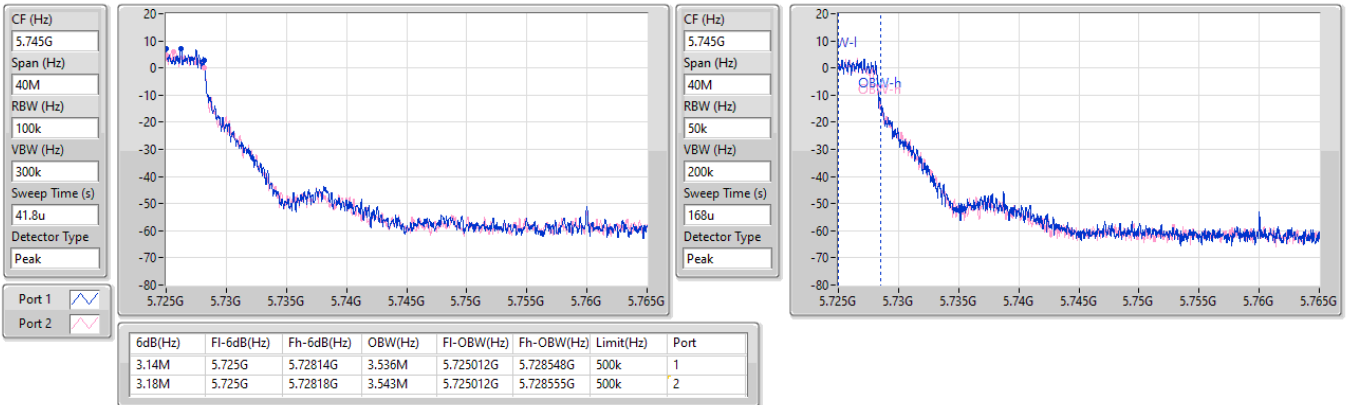


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

24/10/2024

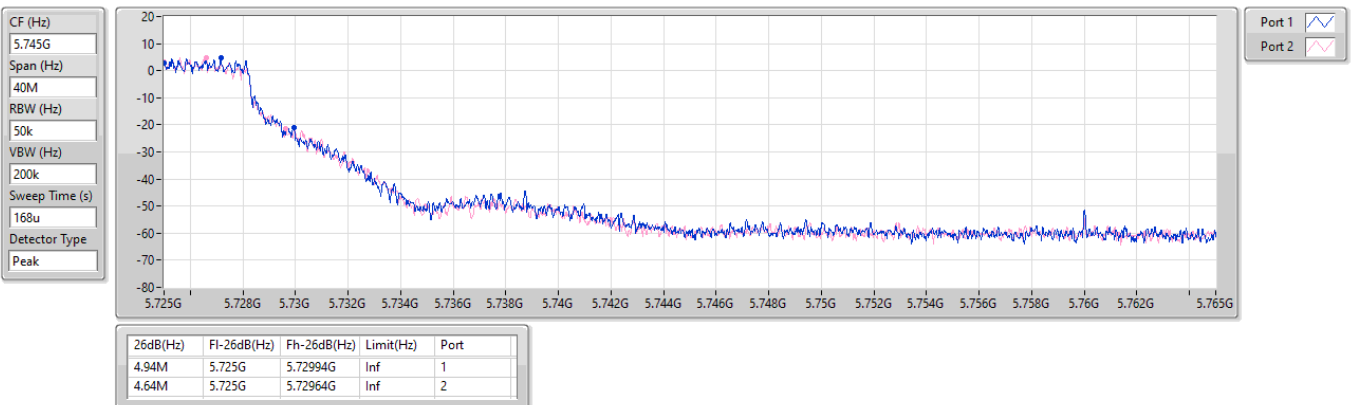


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

24/10/2024

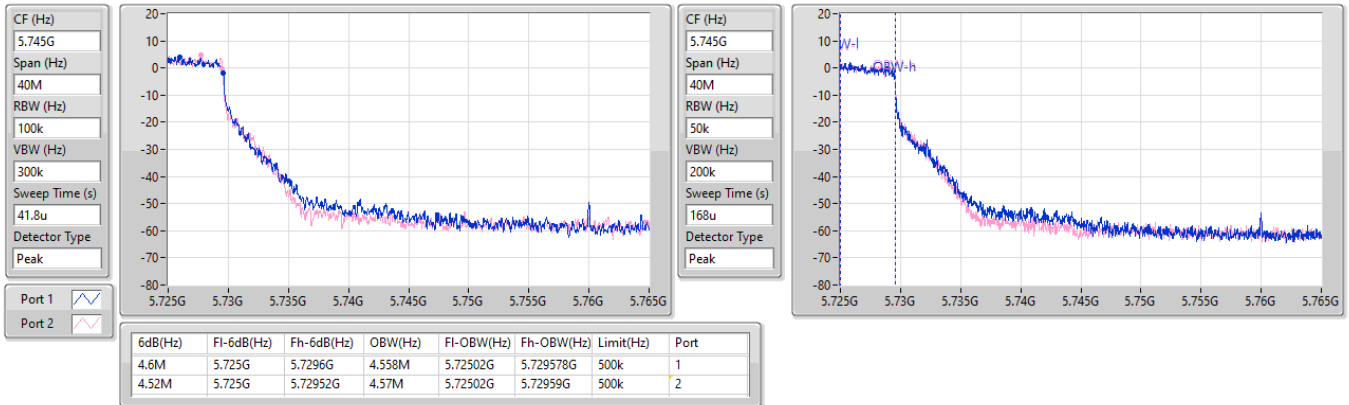


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

24/10/2024

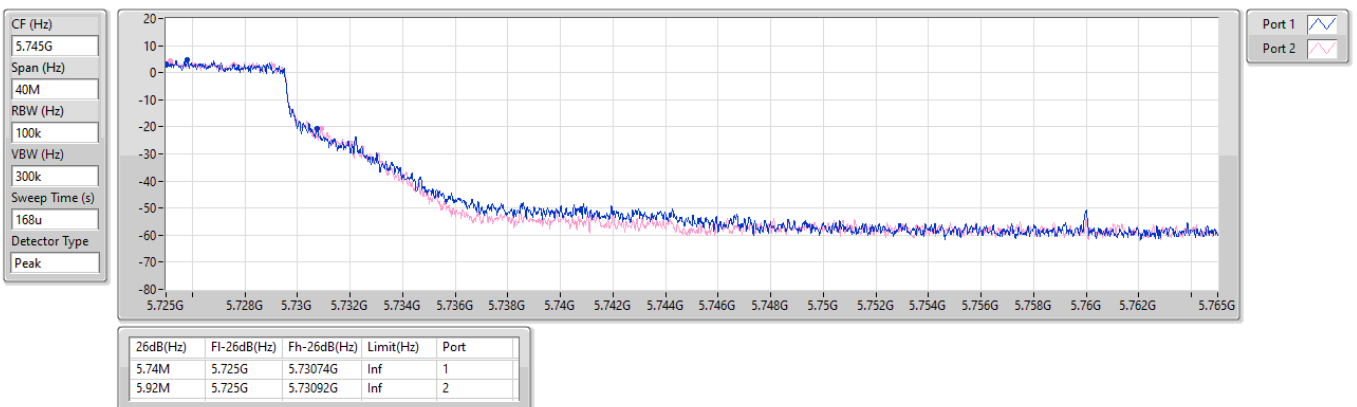


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

24/10/2024

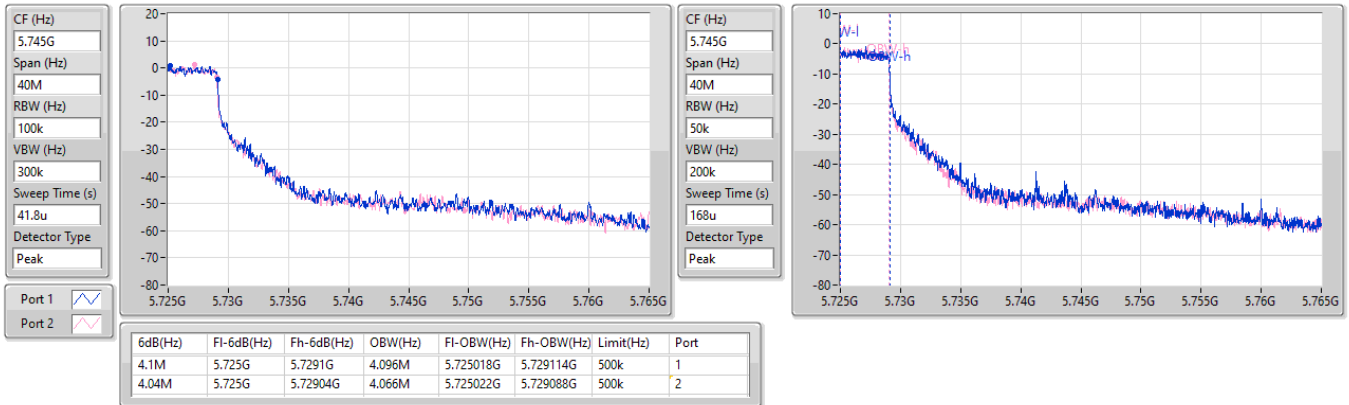


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

24/10/2024

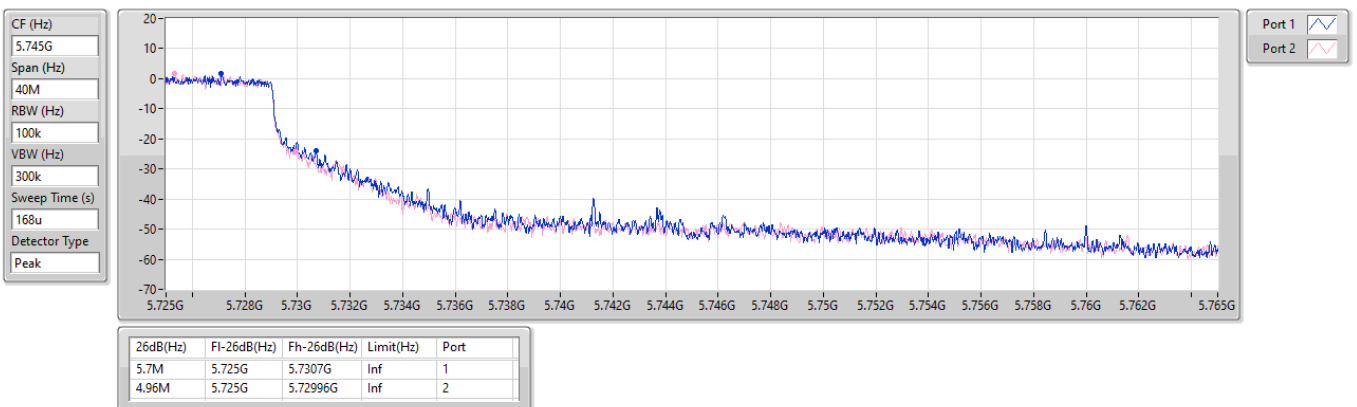


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

24/10/2024

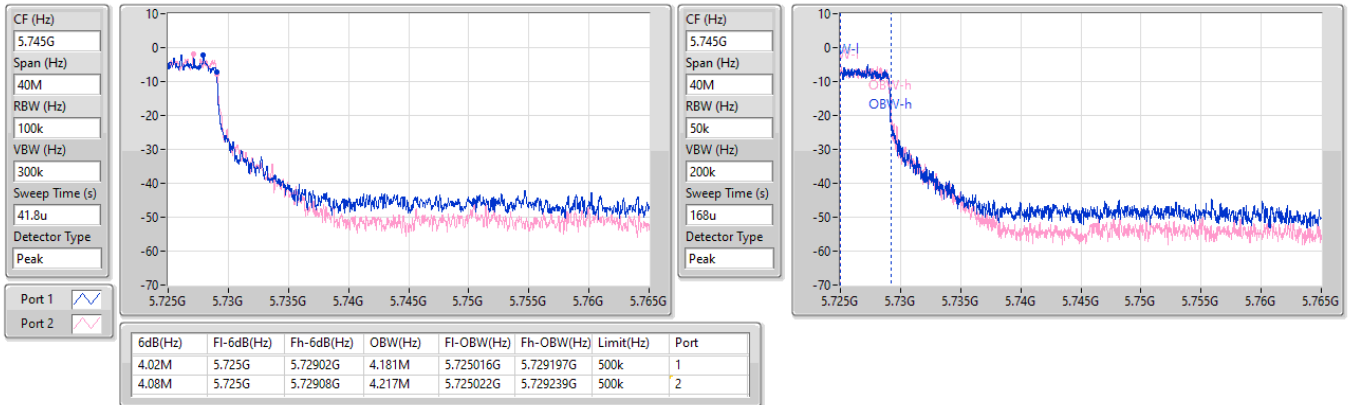


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

24/10/2024

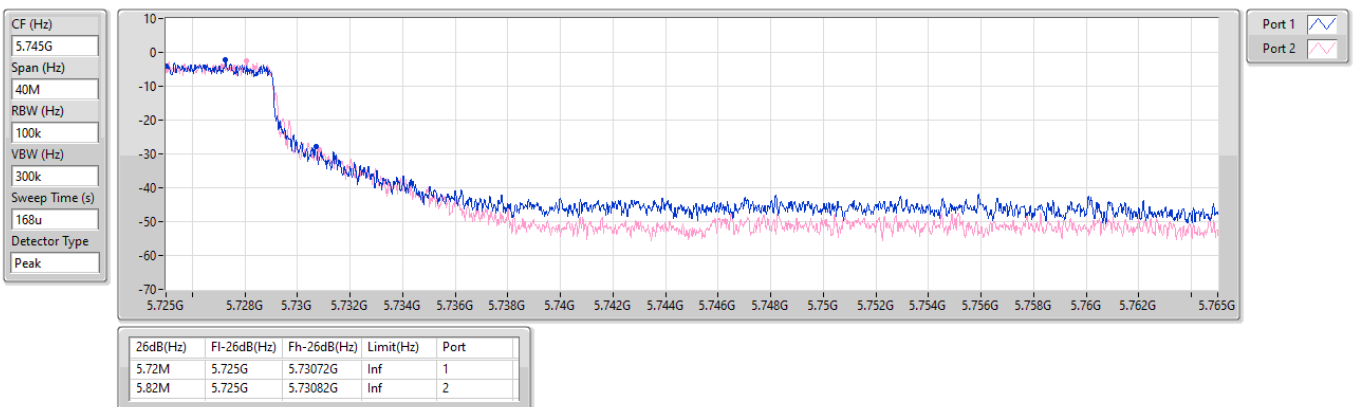


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

24/10/2024



Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.40	0.21878
802.11ax HEW20_Nss1,(MCS0)_2TX	23.95	0.24831
802.11ax HEW40_Nss1,(MCS0)_2TX	23.51	0.22439
802.11ax HEW80_Nss1,(MCS0)_2TX	21.64	0.14588
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.37	0.21727
802.11ax HEW20_Nss1,(MCS0)_2TX	23.74	0.23659
802.11ax HEW40_Nss1,(MCS0)_2TX	23.57	0.22751
802.11ax HEW80_Nss1,(MCS0)_2TX	23.73	0.23605
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	16.05	0.04027
802.11ax HEW20_Nss1,(MCS0)_2TX	17.02	0.05035
802.11ax HEW40_Nss1,(MCS0)_2TX	13.41	0.02193
802.11ax HEW80_Nss1,(MCS0)_2TX	9.34	0.00859

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	3.51	20.42	20.36	23.40	23.69
5300MHz	Pass	3.51	19.99	20.05	23.03	23.77
5320MHz	Pass	3.51	20.10	20.20	23.16	23.81
5500MHz	Pass	3.58	20.32	20.40	23.37	23.71
5580MHz	Pass	3.58	20.09	20.18	23.15	23.56
5700MHz	Pass	3.58	20.29	20.24	23.28	23.87
5720MHz Straddle 5.47-5.725GHz	Pass	3.58	19.43	19.39	22.42	22.60
5720MHz Straddle 5.725-5.85GHz	Pass	3.91	12.97	13.10	16.05	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	3.51	20.94	20.93	23.95	23.98
5300MHz	Pass	3.51	20.53	20.55	23.55	23.98
5320MHz	Pass	3.51	20.61	20.70	23.67	23.98
5500MHz	Pass	3.58	20.78	20.67	23.74	23.98
5580MHz	Pass	3.58	20.74	20.62	23.69	23.98
5700MHz	Pass	3.58	20.79	20.65	23.73	23.97
5720MHz Straddle 5.47-5.725GHz	Pass	3.58	19.58	19.74	22.67	22.87
5720MHz Straddle 5.725-5.85GHz	Pass	3.91	13.91	14.11	17.02	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	3.51	20.56	20.43	23.51	23.98
5310MHz	Pass	3.51	20.09	20.25	23.18	23.98
5510MHz	Pass	3.58	19.34	19.25	22.31	23.98
5550MHz	Pass	3.58	20.48	20.52	23.51	23.98
5670MHz	Pass	3.58	20.60	20.52	23.57	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	3.58	20.57	20.51	23.55	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.91	10.27	10.53	13.41	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	3.51	18.52	18.73	21.64	23.98
5530MHz	Pass	3.58	20.19	20.13	23.17	23.98
5610MHz	Pass	3.58	20.63	20.80	23.73	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	3.58	20.49	20.60	23.56	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.91	6.21	6.44	9.34	30.00

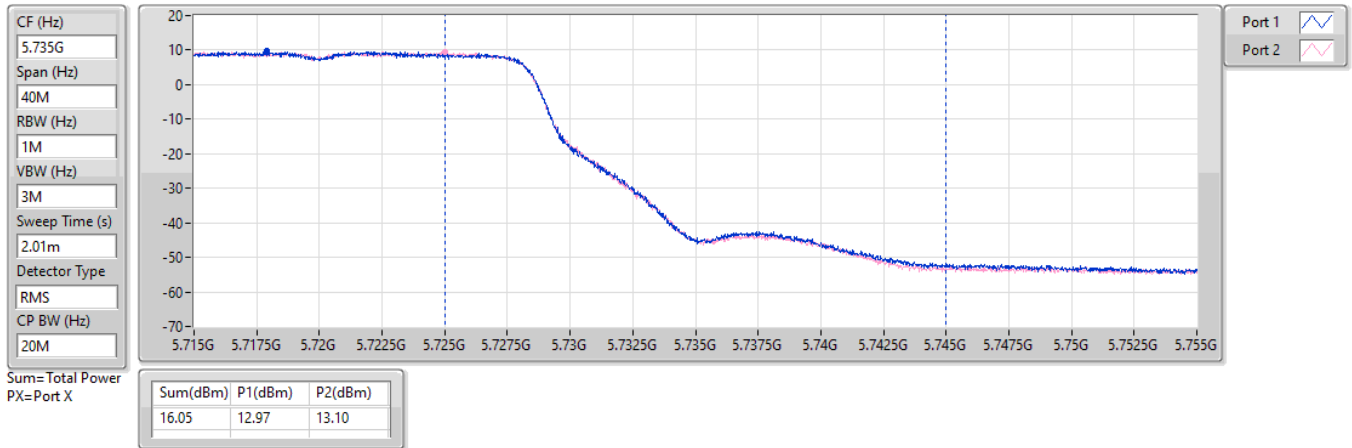
DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

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

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

24/10/2024

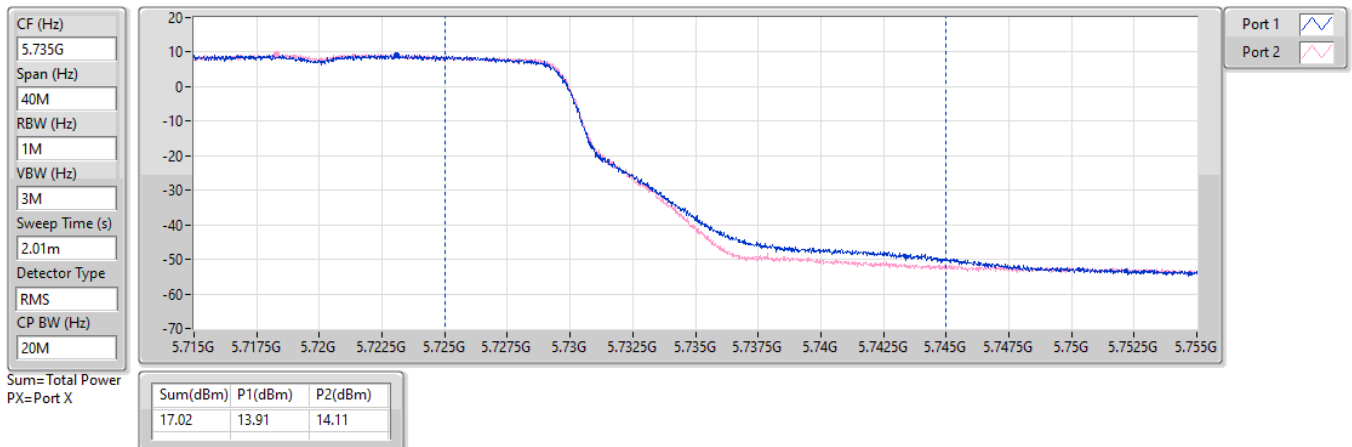


5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

24/10/2024

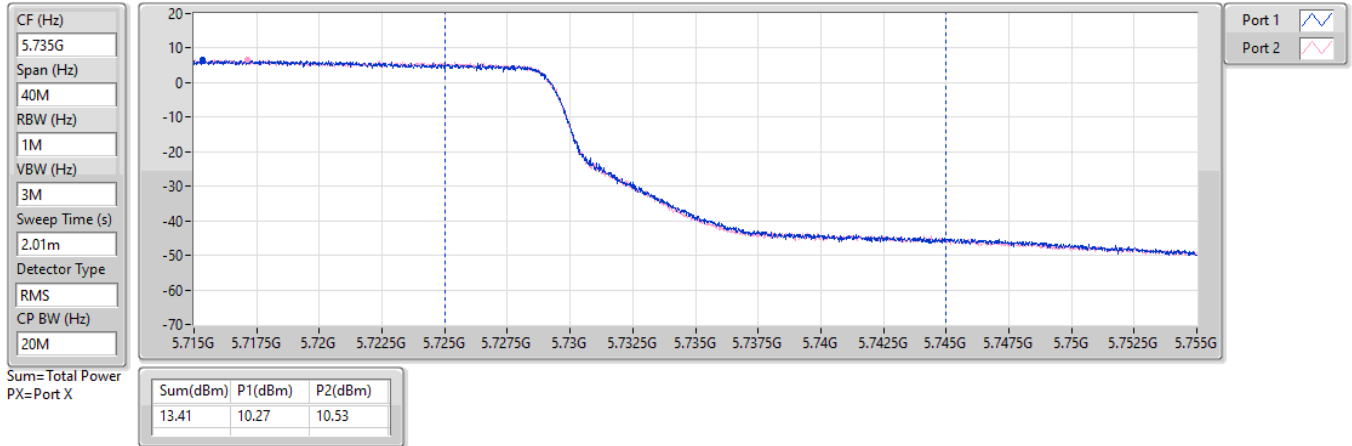


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

24/10/2024

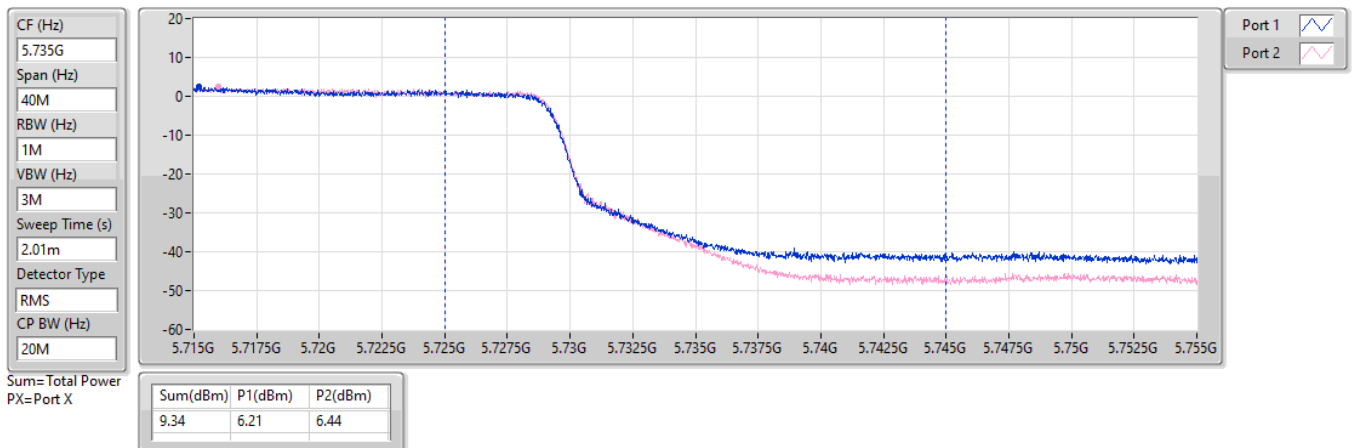


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

24/10/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.84	0.24210
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.39	0.21827
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.51	0.14158
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.63	0.23067
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.47	0.22233
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.60	0.22909
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	16.94	0.04943
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	13.15	0.02065
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	9.13	0.00818



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	4.50	20.83	20.82	23.84	23.98
5300MHz	Pass	4.50	20.38	20.45	23.43	23.98
5320MHz	Pass	4.50	20.48	20.58	23.54	23.98
5500MHz	Pass	4.80	20.65	20.52	23.60	23.98
5580MHz	Pass	4.80	20.60	20.50	23.56	23.98
5700MHz	Pass	4.80	20.68	20.55	23.63	23.97
5720MHz Straddle 5.47-5.725GHz	Pass	4.80	19.64	19.59	22.63	22.87
5720MHz Straddle 5.725-5.85GHz	Pass	5.10	13.86	14.00	16.94	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	4.50	20.46	20.29	23.39	23.98
5310MHz	Pass	4.50	19.99	20.10	23.06	23.98
5510MHz	Pass	4.80	19.24	19.14	22.20	23.98
5550MHz	Pass	4.80	20.38	20.41	23.41	23.98
5670MHz	Pass	4.80	20.49	20.42	23.47	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	4.80	20.48	20.39	23.45	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	5.10	10.13	10.14	13.15	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	4.50	18.38	18.61	21.51	23.98
5530MHz	Pass	4.80	20.16	20.03	23.11	23.98
5610MHz	Pass	4.80	20.52	20.65	23.60	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	4.80	20.40	20.55	23.49	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	5.10	5.95	6.29	9.13	30.00

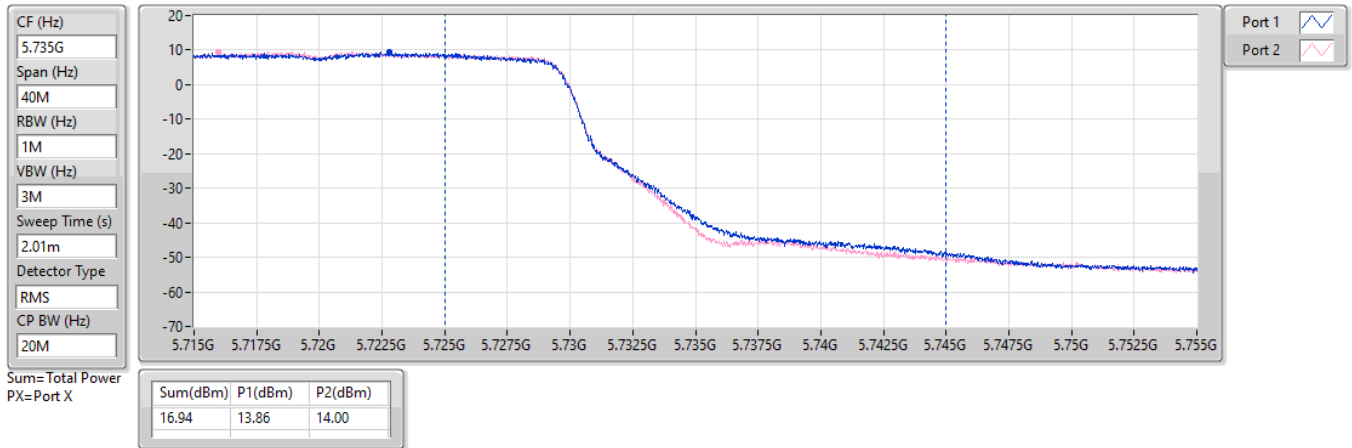
DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

5.725-5.85GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

24/10/2024

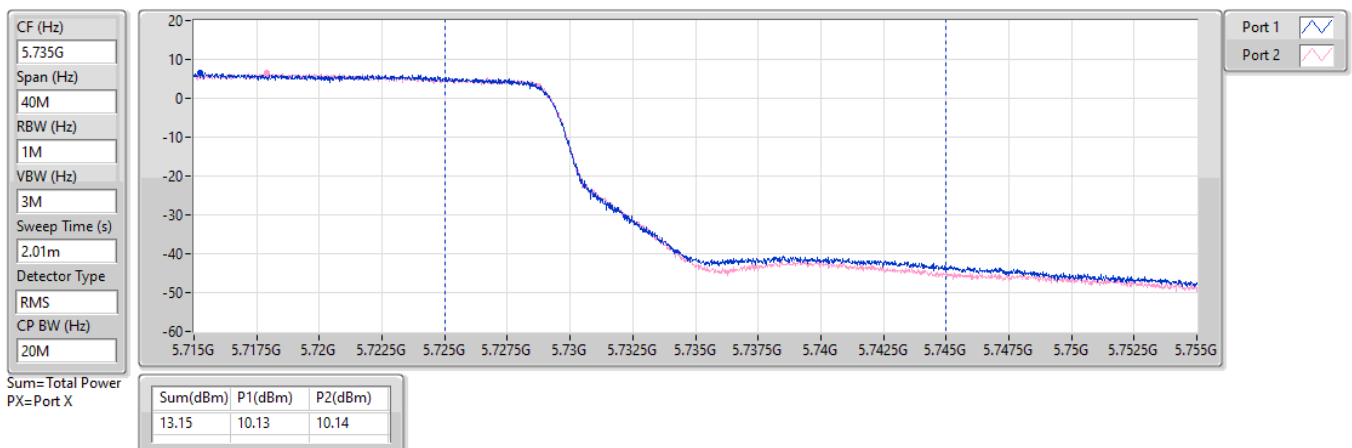


5.725-5.85GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

24/10/2024

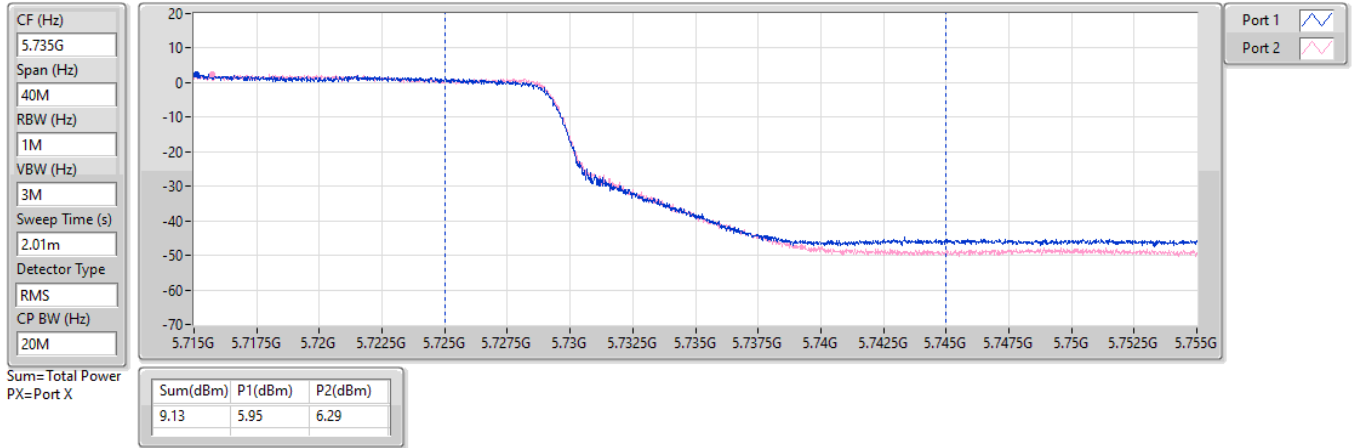


5.725-5.85GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

24/10/2024





Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.86
802.11ax HEW20_Nss1,(MCS0)_2TX	10.86
802.11ax HEW40_Nss1,(MCS0)_2TX	7.36
802.11ax HEW80_Nss1,(MCS0)_2TX	2.56
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.76
802.11ax HEW20_Nss1,(MCS0)_2TX	10.59
802.11ax HEW40_Nss1,(MCS0)_2TX	7.74
802.11ax HEW80_Nss1,(MCS0)_2TX	4.78
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.66
802.11ax HEW20_Nss1,(MCS0)_2TX	8.34
802.11ax HEW40_Nss1,(MCS0)_2TX	4.98
802.11ax HEW80_Nss1,(MCS0)_2TX	1.03

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)_2TX	-	-	-	-	-	-
5260MHz	Pass	4.50	7.97	7.94	10.86	11.00
5300MHz	Pass	4.50	7.70	7.72	10.57	11.00
5320MHz	Pass	4.50	7.66	7.86	10.70	11.00
5500MHz	Pass	4.80	7.84	7.90	10.76	11.00
5580MHz	Pass	4.80	7.77	7.79	10.66	11.00
5700MHz	Pass	4.80	7.90	7.90	10.72	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.80	7.81	7.68	10.63	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.10	5.58	5.93	8.66	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	4.50	7.93	7.92	10.86	11.00
5300MHz	Pass	4.50	7.22	7.36	10.25	11.00
5320MHz	Pass	4.50	7.41	7.48	10.36	11.00
5500MHz	Pass	4.80	7.61	7.48	10.47	11.00
5580MHz	Pass	4.80	7.49	7.50	10.45	11.00
5700MHz	Pass	4.80	7.77	7.54	10.59	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.80	7.17	7.57	10.31	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.10	5.39	5.30	8.34	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	4.50	4.45	4.35	7.36	11.00
5310MHz	Pass	4.50	4.02	4.27	7.09	11.00
5510MHz	Pass	4.80	3.15	3.25	6.13	11.00
5550MHz	Pass	4.80	4.44	4.48	7.40	11.00
5670MHz	Pass	4.80	4.45	4.50	7.43	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.80	4.78	4.84	7.74	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.10	1.84	2.25	4.98	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	4.50	-0.50	-0.30	2.56	11.00
5530MHz	Pass	4.80	1.07	0.89	3.98	11.00
5610MHz	Pass	4.80	1.69	1.88	4.78	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.80	1.74	1.89	4.52	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.10	-1.92	-2.03	1.03	30.00

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

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

24/10/2024

CF (Hz)
5.26G

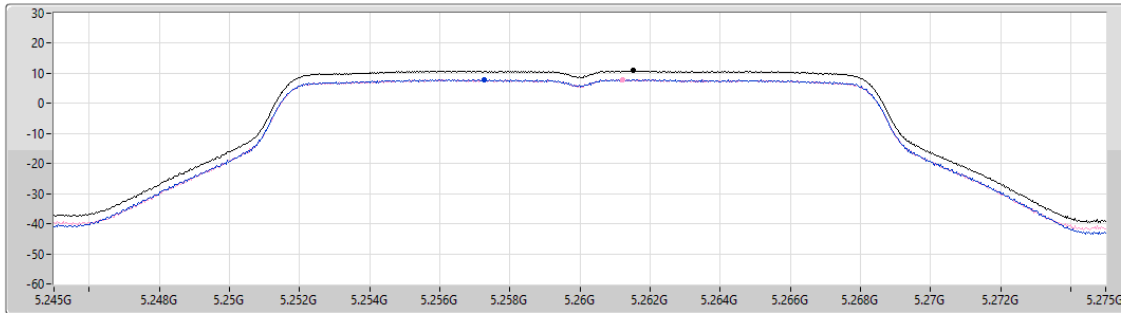
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.474

Detector Type
RMS



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.86	10.86	7.97	7.94

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5260MHz

24/10/2024

CF (Hz)
5.26G

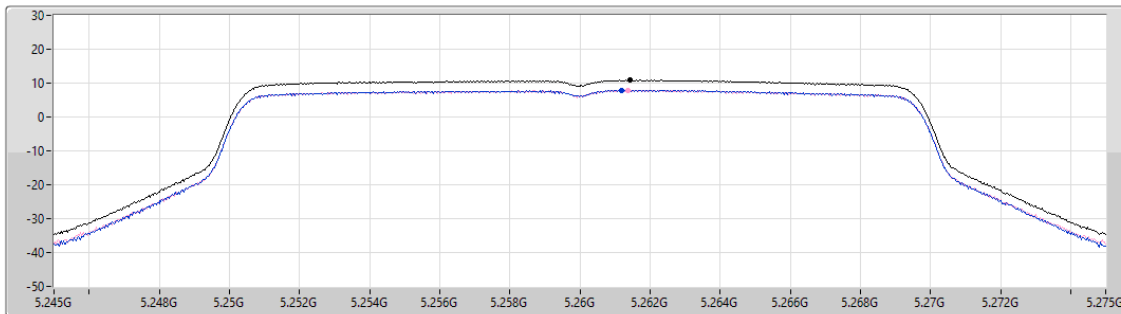
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
55.22

Detector Type
RMS



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.86	10.86	7.93	7.92

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5270MHz

24/10/2024

CF (Hz)
5.27G

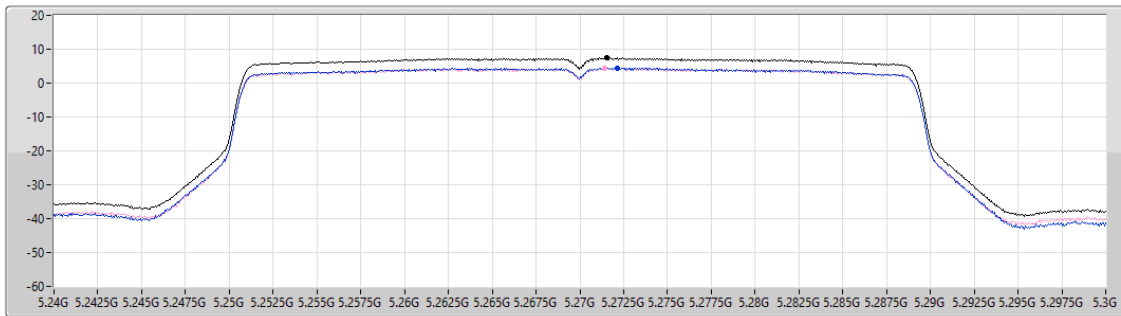
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
39.049

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.36	7.36	4.45	4.35

5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

PSD

5290MHz

24/10/2024

CF (Hz)
5.29G

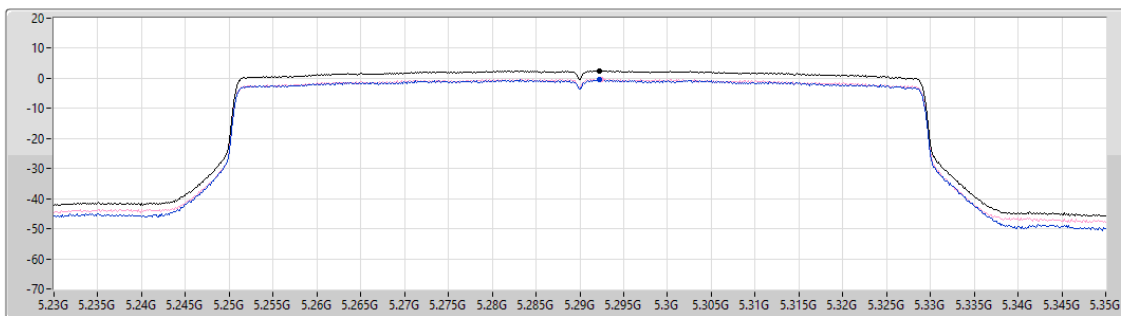
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
22.454

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.56	2.56	-0.50	-0.30

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

PSD

5500MHz

24/10/2024

CF (Hz)
5.5G

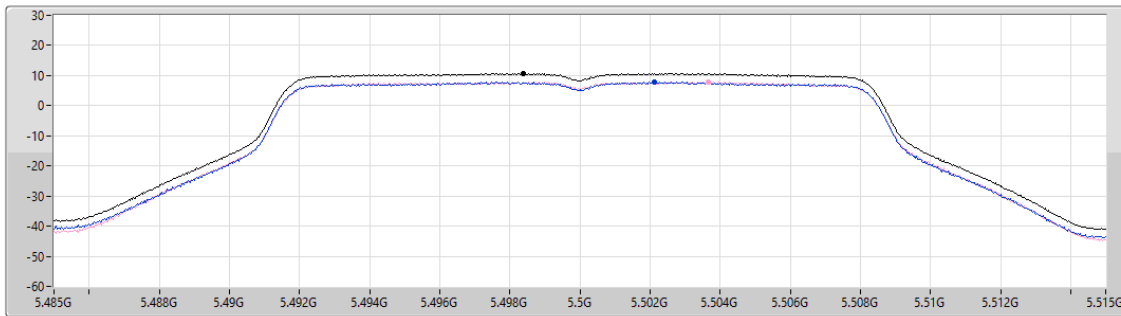
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.474

Detector Type
RMS



Sum ☐

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.76	10.76	7.84	7.90

5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5700MHz

24/10/2024

CF (Hz)
5.7G

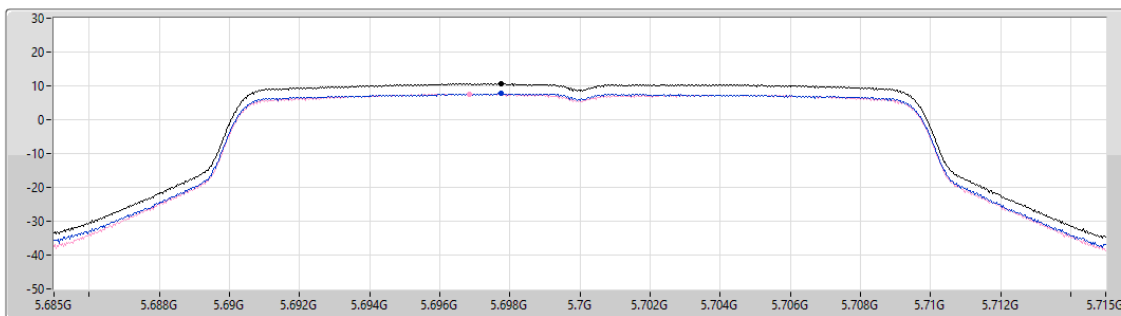
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
55.22

Detector Type
RMS



Sum ☐

Port 1 ☐

Port 2 ☐

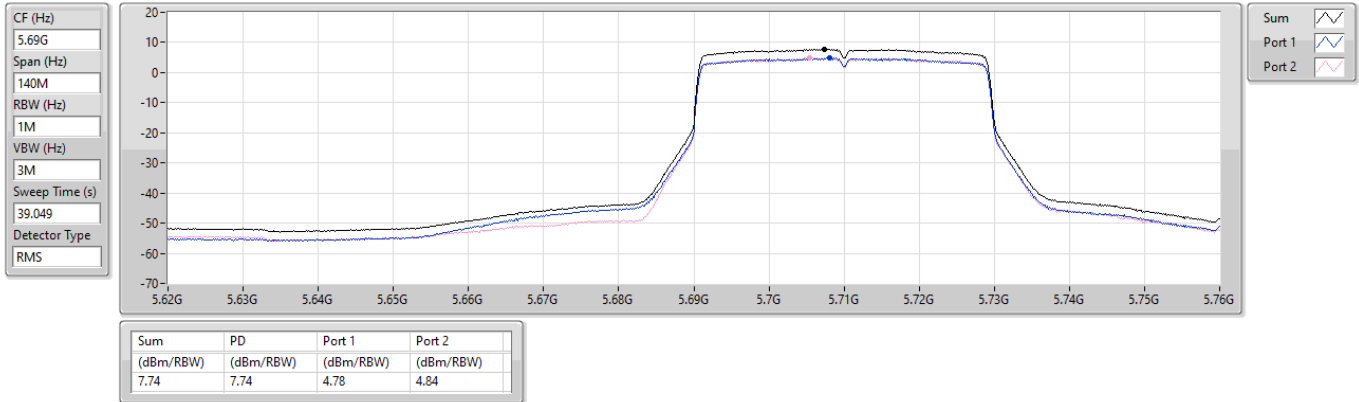
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.59	10.59	7.77	7.54

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

PSD

5710MHz Straddle 5.47-5.725GHz

24/10/2024

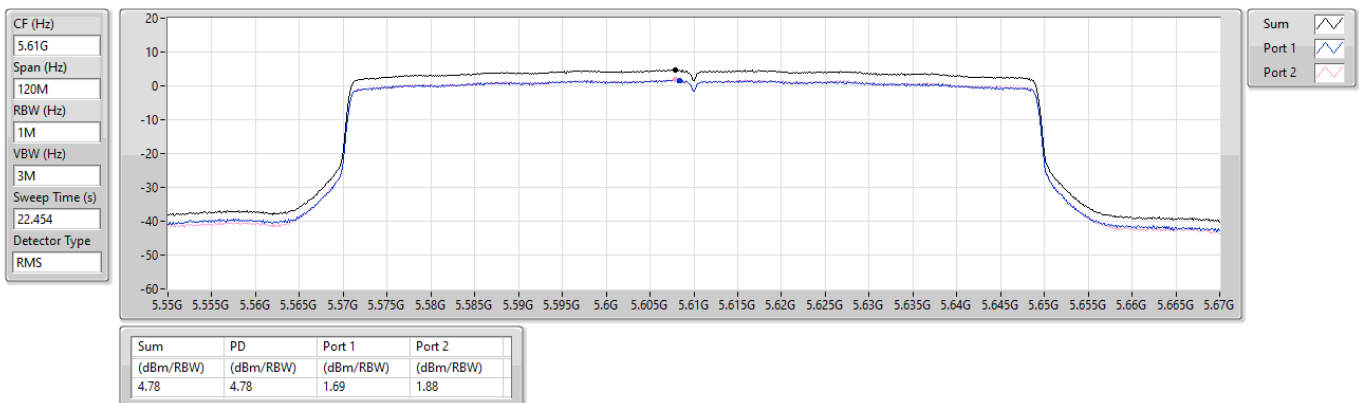


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5610MHz

24/10/2024

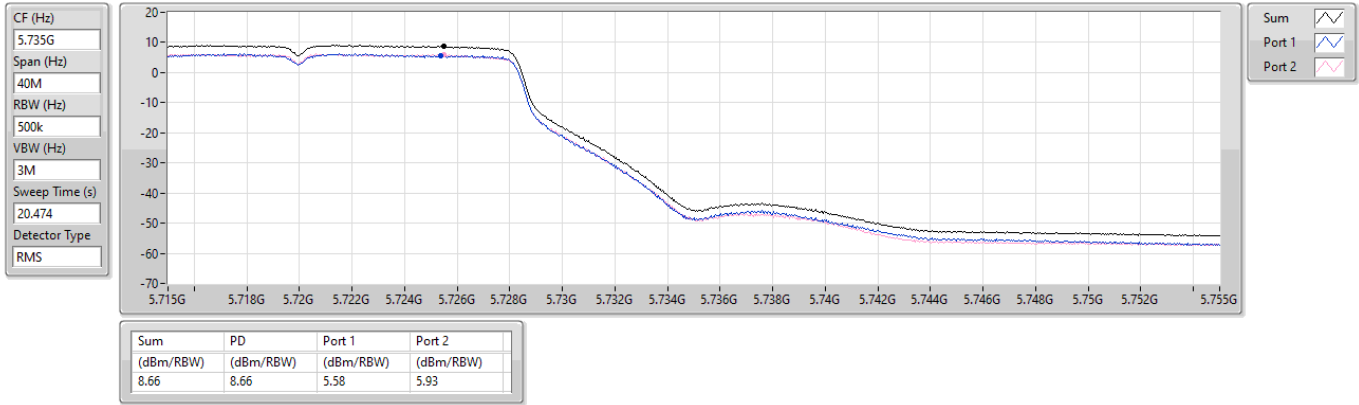


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

24/10/2024

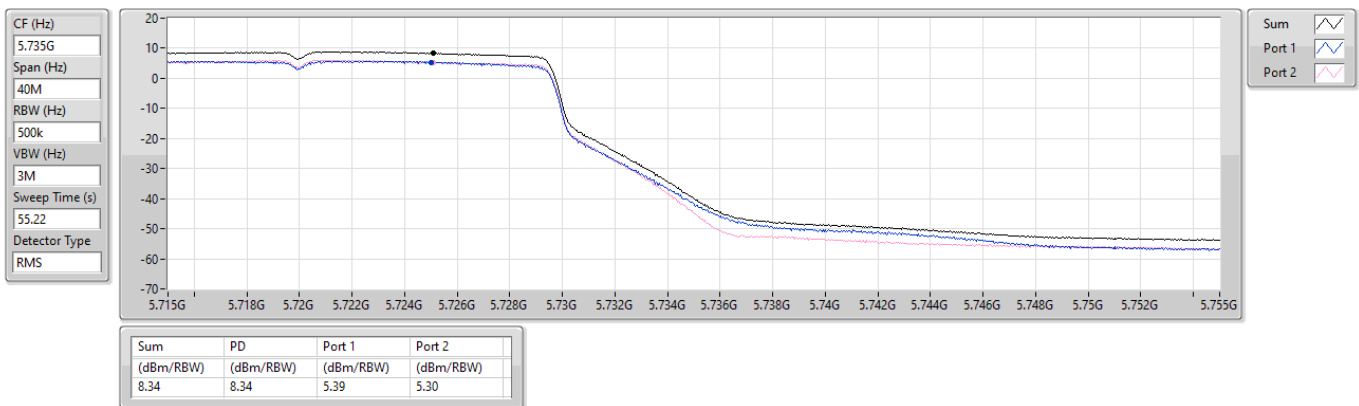


5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

24/10/2024

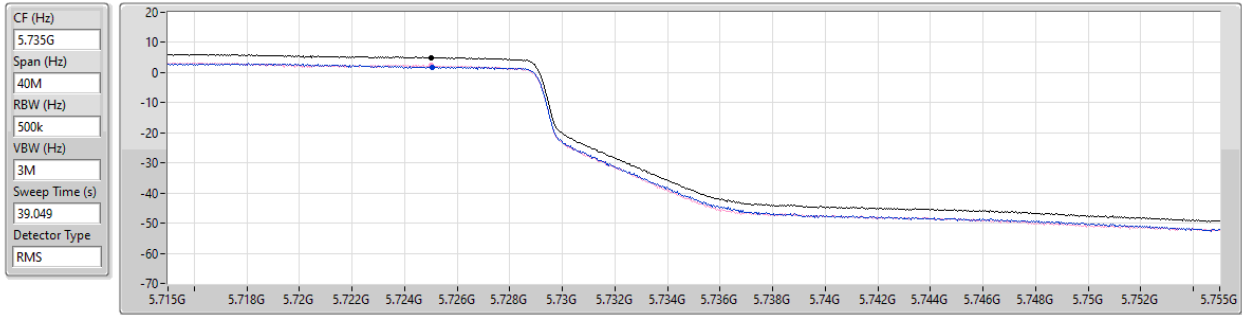


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

24/10/2024



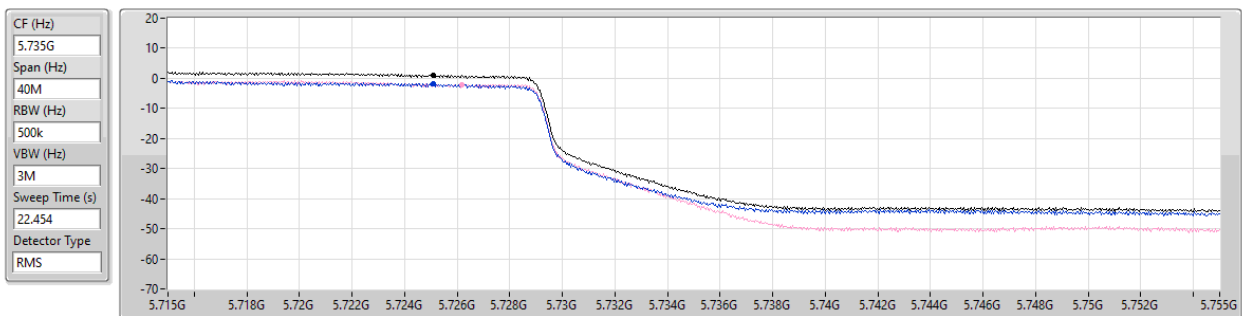
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.98	4.98	1.84	2.25

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

PSD

5690MHz Straddle 5.725-5.85GHz

24/10/2024



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.03	1.03	-1.92	-2.03



Summary

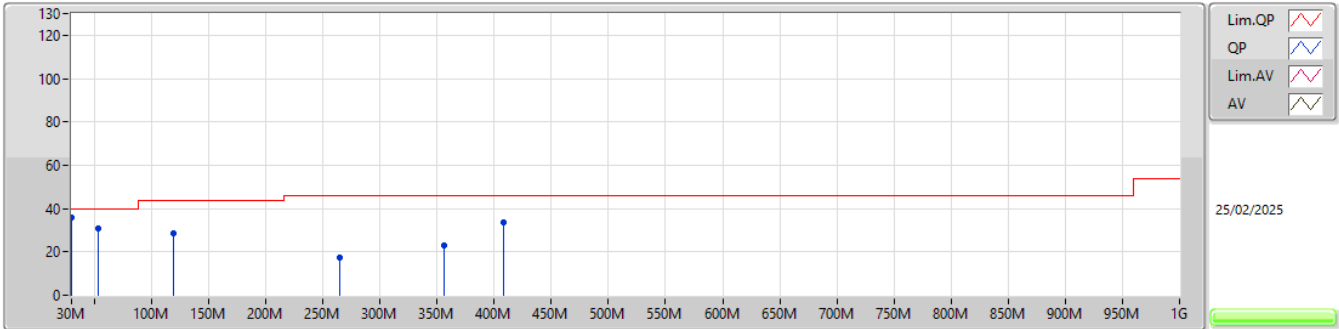
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	30M	35.90	40.00	-4.10	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	30M	35.90	40.00	-4.10	3	Vertical	360	1.00
5775MHz	Pass	PK	53.28M	30.87	40.00	-9.13	3	Vertical	360	1.00
5775MHz	Pass	PK	119.24M	28.55	43.50	-14.95	3	Vertical	360	1.00
5775MHz	Pass	PK	264.74M	17.16	46.00	-28.84	3	Vertical	360	1.00
5775MHz	Pass	PK	355.92M	22.81	46.00	-23.19	3	Vertical	360	1.00
5775MHz	Pass	PK	408.3M	33.84	46.00	-12.16	3	Vertical	360	1.00
5775MHz	Pass	PK	30M	23.13	40.00	-16.87	3	Horizontal	0	1.00
5775MHz	Pass	PK	117.3M	21.82	43.50	-21.68	3	Horizontal	0	1.00
5775MHz	Pass	PK	239.52M	20.28	46.00	-25.72	3	Horizontal	0	1.00
5775MHz	Pass	PK	357.86M	22.78	46.00	-23.22	3	Horizontal	0	1.00
5775MHz	Pass	PK	418M	34.57	46.00	-11.43	3	Horizontal	0	1.00
5775MHz	Pass	PK	497.54M	22.33	46.00	-23.67	3	Horizontal	0	1.00

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

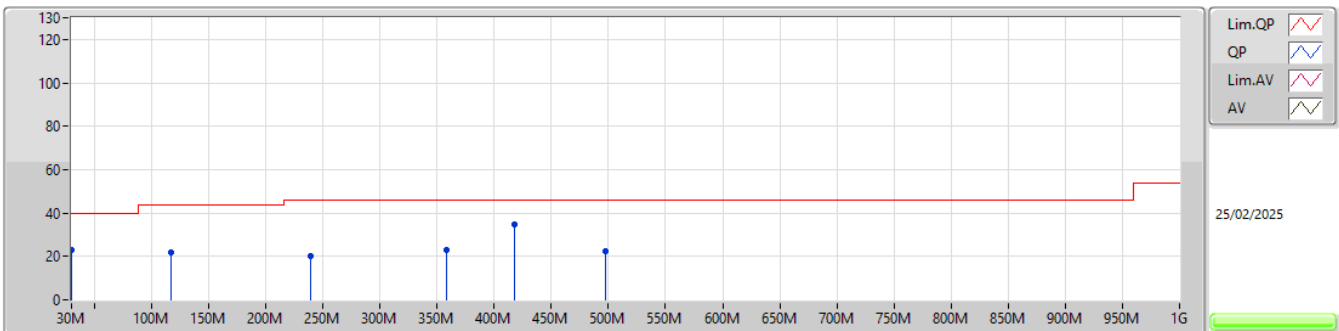
5775MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	30M	35.90	40.00	-4.10	-18.87	3	Vertical	360	1.00	54.77	24.67	0.78	44.32
PK	53.28M	30.87	40.00	-9.13	-30.84	3	Vertical	360	1.00	61.71	12.97	0.85	44.66
PK	119.24M	28.55	43.50	-14.95	-25.80	3	Vertical	360	1.00	54.35	17.54	1.28	44.62
PK	264.74M	17.16	46.00	-28.84	-22.32	3	Vertical	360	1.00	39.48	20.22	1.87	44.41
PK	355.92M	22.81	46.00	-23.19	-21.12	3	Vertical	360	1.00	43.93	20.88	2.21	44.21
PK	408.3M	33.84	46.00	-12.16	-19.52	3	Vertical	360	1.00	53.36	22.29	2.28	44.09

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

5775MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	30M	23.13	40.00	-16.87	-18.87	3	Horizontal	0	1.00	42.00	24.67	0.78	44.32
PK	117.3M	21.82	43.50	-21.68	-25.92	3	Horizontal	0	1.00	47.74	17.43	1.27	44.62
PK	239.52M	20.28	46.00	-25.72	-25.30	3	Horizontal	0	1.00	45.58	17.39	1.77	44.46
PK	357.86M	22.78	46.00	-23.22	-21.06	3	Horizontal	0	1.00	43.84	20.93	2.21	44.20
PK	418M	34.57	46.00	-11.43	-19.05	3	Horizontal	0	1.00	53.62	22.71	2.31	44.07
PK	497.54M	22.33	46.00	-23.67	-17.24	3	Horizontal	0	1.00	39.57	24.08	2.64	43.96

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.3502G	53.29	54.00	-0.71	3	Vertical	167	1.50
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	5.3548G	53.43	54.00	-0.57	3	Vertical	164	1.50
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.3548G	53.83	54.00	-0.17	3	Vertical	165	1.50
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	5.356G	53.15	54.00	-0.85	3	Vertical	162	1.50
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.4698G	67.73	68.20	-0.47	3	Vertical	164	1.39
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	17.16804G	67.26	68.20	-0.94	3	Horizontal	241	1.53
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.4664G	67.68	68.20	-0.52	3	Vertical	169	1.50
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	5.456G	53.48	54.00	-0.52	3	Vertical	179	1.50

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1454G	47.76	54.00	-6.24	3	Vertical	165	1.50
5260MHz	Pass	AV	5.2576G	110.93	Inf	-Inf	3	Vertical	165	1.50
5260MHz	Pass	AV	5.3764G	49.81	54.00	-4.19	3	Vertical	165	1.50
5260MHz	Pass	PK	5.1436G	60.46	74.00	-13.54	3	Vertical	165	1.50
5260MHz	Pass	PK	5.2576G	122.64	Inf	-Inf	3	Vertical	165	1.50
5260MHz	Pass	PK	5.35G	61.66	74.00	-12.34	3	Vertical	165	1.50
5260MHz	Pass	AV	15.78228G	41.22	54.00	-12.78	3	Vertical	317	1.41
5260MHz	Pass	PK	10.51136G	51.33	68.20	-16.87	3	Vertical	164	1.72
5260MHz	Pass	PK	15.77656G	54.42	74.00	-19.58	3	Vertical	317	1.41
5260MHz	Pass	AV	15.7758G	41.86	54.00	-12.14	3	Horizontal	309	1.58
5260MHz	Pass	PK	10.5114G	51.09	68.20	-17.11	3	Horizontal	117	1.50
5260MHz	Pass	PK	15.7808G	55.88	74.00	-18.12	3	Horizontal	309	1.58
5300MHz	Pass	AV	5.3028G	110.19	Inf	-Inf	3	Vertical	165	1.50
5300MHz	Pass	AV	5.376G	49.13	54.00	-4.87	3	Vertical	165	1.50
5300MHz	Pass	PK	5.2972G	121.18	Inf	-Inf	3	Vertical	165	1.50
5300MHz	Pass	PK	5.3696G	61.21	74.00	-12.79	3	Vertical	165	1.50
5300MHz	Pass	AV	15.89688G	40.44	54.00	-13.56	3	Vertical	314	1.28
5300MHz	Pass	PK	10.5986G	51.09	68.20	-17.11	3	Vertical	150	2.64
5300MHz	Pass	PK	15.89704G	53.34	74.00	-20.66	3	Vertical	314	1.28
5300MHz	Pass	AV	15.90176G	41.29	54.00	-12.71	3	Horizontal	310	2.57
5300MHz	Pass	PK	10.59064G	51.48	68.20	-16.72	3	Horizontal	298	1.50
5300MHz	Pass	PK	15.9012G	54.67	74.00	-19.33	3	Horizontal	310	2.57
5320MHz	Pass	AV	5.3152G	109.63	Inf	-Inf	3	Vertical	167	1.50
5320MHz	Pass	AV	5.3502G	53.29	54.00	-0.71	3	Vertical	167	1.50
5320MHz	Pass	PK	5.3158G	119.60	Inf	-Inf	3	Vertical	167	1.50
5320MHz	Pass	PK	5.35G	67.21	74.00	-6.79	3	Vertical	167	1.50
5320MHz	Pass	AV	10.64G	39.74	54.00	-14.26	3	Vertical	160	1.68
5320MHz	Pass	AV	15.96184G	39.75	54.00	-14.25	3	Vertical	286	1.50
5320MHz	Pass	PK	10.63984G	51.30	74.00	-22.70	3	Vertical	160	1.68
5320MHz	Pass	PK	15.96228G	52.05	74.00	-21.95	3	Vertical	286	1.50
5320MHz	Pass	AV	10.64096G	40.01	54.00	-13.99	3	Horizontal	308	2.20
5320MHz	Pass	AV	15.95204G	40.00	54.00	-14.00	3	Horizontal	310	2.27
5320MHz	Pass	PK	10.63672G	51.81	74.00	-22.19	3	Horizontal	308	2.20
5320MHz	Pass	PK	15.95696G	55.67	74.00	-18.33	3	Horizontal	310	2.27
5500MHz	Pass	AV	5.46G	48.72	54.00	-5.28	3	Vertical	164	1.39
5500MHz	Pass	AV	5.4958G	109.90	Inf	-Inf	3	Vertical	164	1.39
5500MHz	Pass	PK	5.455G	60.84	74.00	-13.16	3	Vertical	164	1.39
5500MHz	Pass	PK	5.4698G	67.73	68.20	-0.47	3	Vertical	164	1.39
5500MHz	Pass	PK	5.4956G	120.41	Inf	-Inf	3	Vertical	164	1.39
5500MHz	Pass	AV	11.0018G	40.08	54.00	-13.92	3	Vertical	38	1.41
5500MHz	Pass	PK	11.00208G	52.37	74.00	-21.63	3	Vertical	38	1.41
5500MHz	Pass	PK	16.4958G	52.57	68.20	-15.63	3	Vertical	72	1.50
5500MHz	Pass	AV	11.00224G	42.61	54.00	-11.39	3	Horizontal	8	3.00
5500MHz	Pass	PK	11.00276G	54.64	74.00	-19.36	3	Horizontal	8	3.00
5500MHz	Pass	PK	16.49612G	54.55	68.20	-13.65	3	Horizontal	232	1.58
5580MHz	Pass	AV	5.4366G	47.27	54.00	-6.73	3	Vertical	173	1.50
5580MHz	Pass	AV	5.5758G	110.30	Inf	-Inf	3	Vertical	173	1.50
5580MHz	Pass	PK	5.4366G	59.06	74.00	-14.94	3	Vertical	173	1.50
5580MHz	Pass	PK	5.4624G	59.97	68.20	-8.23	3	Vertical	173	1.50
5580MHz	Pass	PK	5.5758G	120.21	Inf	-Inf	3	Vertical	173	1.50
5580MHz	Pass	PK	5.7276G	60.47	68.20	-7.73	3	Vertical	173	1.50
5580MHz	Pass	AV	11.15688G	41.44	54.00	-12.56	3	Vertical	34	1.66
5580MHz	Pass	PK	11.164G	52.91	74.00	-21.09	3	Vertical	34	1.66
5580MHz	Pass	PK	16.74032G	55.02	68.20	-13.18	3	Vertical	34	1.83
5580MHz	Pass	AV	11.1582G	45.51	54.00	-8.49	3	Horizontal	3	3.00
5580MHz	Pass	PK	11.15852G	57.28	74.00	-16.72	3	Horizontal	3	3.00
5580MHz	Pass	PK	16.73948G	58.30	68.20	-9.90	3	Horizontal	239	1.59
5700MHz	Pass	AV	5.6956G	107.69	Inf	-Inf	3	Vertical	173	1.50
5700MHz	Pass	PK	5.7012G	117.90	Inf	-Inf	3	Vertical	173	1.50
5700MHz	Pass	PK	5.7256G	65.16	68.20	-3.04	3	Vertical	173	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5700MHz	Pass	AV	11.39812G	42.25	54.00	-11.75	3	Vertical	311	1.57
5700MHz	Pass	PK	11.3974G	54.39	74.00	-19.61	3	Vertical	311	1.57
5700MHz	Pass	PK	17.09728G	54.30	68.20	-13.90	3	Vertical	230	2.17
5700MHz	Pass	AV	11.39776G	44.49	54.00	-9.51	3	Horizontal	11	1.79
5700MHz	Pass	PK	11.39768G	59.23	74.00	-14.77	3	Horizontal	11	1.79
5700MHz	Pass	PK	17.09584G	56.18	68.20	-12.02	3	Horizontal	229	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4308G	47.43	54.00	-6.57	3	Vertical	245	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7188G	109.55	Inf	-Inf	3	Vertical	245	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4368G	59.88	74.00	-14.12	3	Vertical	245	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4668G	59.26	68.20	-8.94	3	Vertical	245	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7188G	119.67	Inf	-Inf	3	Vertical	245	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8628G	63.10	68.20	-5.10	3	Vertical	245	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43796G	43.46	54.00	-10.54	3	Vertical	312	1.59
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44692G	56.97	74.00	-17.03	3	Vertical	312	1.59
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16148G	60.14	68.20	-8.06	3	Vertical	228	2.15
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43788G	45.64	54.00	-8.36	3	Horizontal	9	1.44
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43768G	57.32	74.00	-16.68	3	Horizontal	9	1.44
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16328G	63.12	68.20	-5.08	3	Horizontal	228	1.50
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.15G	46.86	54.00	-7.14	3	Vertical	165	1.50
5260MHz	Pass	AV	5.2558G	109.79	Inf	-Inf	3	Vertical	165	1.50
5260MHz	Pass	AV	5.3764G	48.76	54.00	-5.24	3	Vertical	165	1.50
5260MHz	Pass	PK	5.143G	60.27	74.00	-13.73	3	Vertical	165	1.50
5260MHz	Pass	PK	5.257G	122.67	Inf	-Inf	3	Vertical	165	1.50
5260MHz	Pass	PK	5.35G	61.46	74.00	-12.54	3	Vertical	165	1.50
5260MHz	Pass	AV	15.7839G	40.54	54.00	-13.46	3	Vertical	316	1.35
5260MHz	Pass	PK	10.52792G	50.81	68.20	-17.39	3	Vertical	168	1.82
5260MHz	Pass	PK	15.78252G	53.84	74.00	-20.16	3	Vertical	316	1.35
5260MHz	Pass	AV	15.78342G	41.02	54.00	-12.98	3	Horizontal	312	2.55
5260MHz	Pass	PK	10.52186G	52.69	68.20	-15.51	3	Horizontal	282	1.50
5260MHz	Pass	PK	15.78468G	56.97	74.00	-17.03	3	Horizontal	312	2.55
5300MHz	Pass	AV	5.3012G	108.40	Inf	-Inf	3	Vertical	164	1.50
5300MHz	Pass	AV	5.376G	48.05	54.00	-5.95	3	Vertical	164	1.50
5300MHz	Pass	PK	5.3004G	121.14	Inf	-Inf	3	Vertical	164	1.50
5300MHz	Pass	PK	5.3532G	61.33	74.00	-12.67	3	Vertical	164	1.50
5300MHz	Pass	AV	15.88554G	39.34	54.00	-14.66	3	Vertical	219	1.50
5300MHz	Pass	PK	10.60774G	52.13	74.00	-21.87	3	Vertical	162	1.70
5300MHz	Pass	PK	15.91296G	51.79	74.00	-22.21	3	Vertical	219	1.50
5300MHz	Pass	AV	10.60252G	38.92	54.00	-15.08	3	Horizontal	297	2.13
5300MHz	Pass	AV	15.90324G	39.81	54.00	-14.19	3	Horizontal	303	1.50
5300MHz	Pass	PK	10.60114G	51.94	74.00	-22.06	3	Horizontal	297	2.13
5300MHz	Pass	PK	15.90324G	53.05	74.00	-20.95	3	Horizontal	303	1.50
5320MHz	Pass	AV	5.3158G	108.79	Inf	-Inf	3	Vertical	164	1.50
5320MHz	Pass	AV	5.3548G	53.43	54.00	-0.57	3	Vertical	164	1.50
5320MHz	Pass	PK	5.317G	121.75	Inf	-Inf	3	Vertical	164	1.50
5320MHz	Pass	PK	5.3554G	68.38	74.00	-5.62	3	Vertical	164	1.50
5320MHz	Pass	AV	10.63982G	39.25	54.00	-14.75	3	Vertical	160	1.83
5320MHz	Pass	AV	15.96018G	39.60	54.00	-14.40	3	Vertical	317	1.28
5320MHz	Pass	PK	10.63454G	50.84	74.00	-23.16	3	Vertical	160	1.83
5320MHz	Pass	PK	15.95904G	52.08	74.00	-21.92	3	Vertical	317	1.28
5320MHz	Pass	AV	10.64222G	38.68	54.00	-15.32	3	Horizontal	342	2.20
5320MHz	Pass	AV	15.9588G	40.35	54.00	-13.65	3	Horizontal	310	2.55
5320MHz	Pass	PK	10.65422G	51.08	74.00	-22.92	3	Horizontal	342	2.20
5320MHz	Pass	PK	15.95952G	55.34	74.00	-18.66	3	Horizontal	310	2.55
5500MHz	Pass	AV	5.4568G	48.04	54.00	-5.96	3	Vertical	163	1.16
5500MHz	Pass	AV	5.4968G	108.54	Inf	-Inf	3	Vertical	163	1.16
5500MHz	Pass	PK	5.455G	60.73	74.00	-13.27	3	Vertical	163	1.16
5500MHz	Pass	PK	5.4672G	67.12	68.20	-1.08	3	Vertical	163	1.16
5500MHz	Pass	PK	5.4976G	122.30	Inf	-Inf	3	Vertical	163	1.16
5500MHz	Pass	AV	11.00294G	41.13	54.00	-12.87	3	Vertical	36	1.50
5500MHz	Pass	PK	11.00282G	54.20	74.00	-19.80	3	Vertical	36	1.50
5500MHz	Pass	PK	16.50918G	55.90	68.20	-12.30	3	Vertical	135	1.50

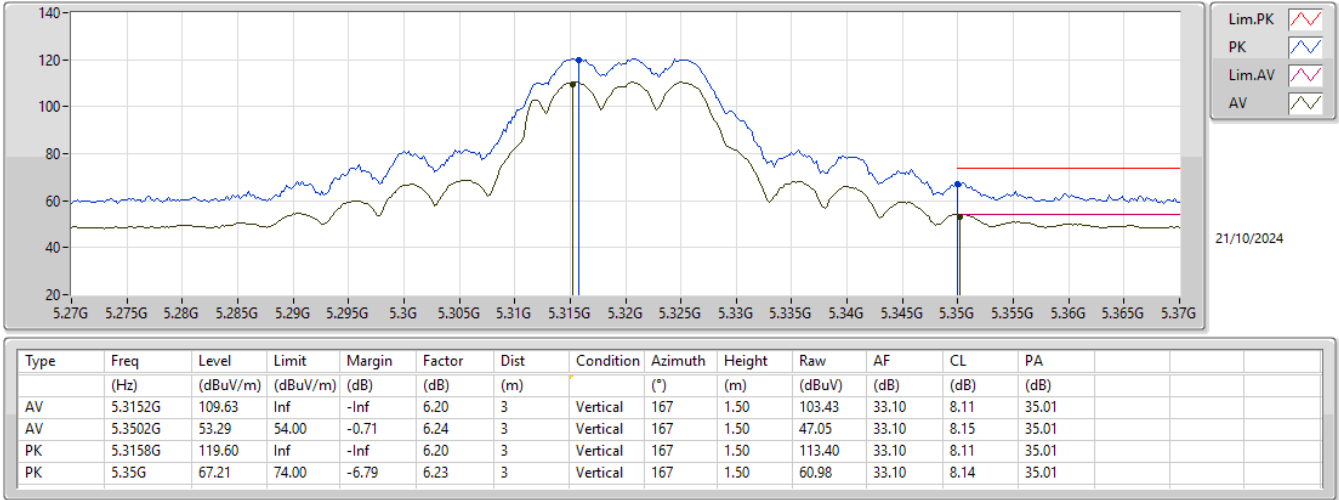
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5500MHz	Pass	AV	11.0036G	43.90	54.00	-10.10	3	Horizontal	306	2.12
5500MHz	Pass	PK	11.0024G	58.11	74.00	-15.89	3	Horizontal	306	2.12
5500MHz	Pass	PK	16.50342G	58.89	68.20	-9.31	3	Horizontal	237	1.50
5580MHz	Pass	AV	5.4402G	46.51	54.00	-7.49	3	Vertical	180	1.50
5580MHz	Pass	AV	5.586G	108.96	Inf	-Inf	3	Vertical	180	1.50
5580MHz	Pass	PK	5.4504G	60.09	74.00	-13.91	3	Vertical	180	1.50
5580MHz	Pass	PK	5.4666G	60.48	68.20	-7.72	3	Vertical	180	1.50
5580MHz	Pass	PK	5.5866G	121.99	Inf	-Inf	3	Vertical	180	1.50
5580MHz	Pass	PK	5.73G	59.80	68.20	-8.40	3	Vertical	180	1.50
5580MHz	Pass	AV	11.15502G	41.53	54.00	-12.47	3	Vertical	37	1.50
5580MHz	Pass	PK	11.16504G	55.77	74.00	-18.23	3	Vertical	37	1.50
5580MHz	Pass	PK	16.74798G	56.76	68.20	-11.44	3	Vertical	229	1.39
5580MHz	Pass	AV	11.15628G	44.53	54.00	-9.47	3	Horizontal	9	2.98
5580MHz	Pass	PK	11.15604G	58.03	74.00	-15.97	3	Horizontal	9	2.98
5580MHz	Pass	PK	16.7358G	59.74	68.20	-8.46	3	Horizontal	234	1.61
5700MHz	Pass	AV	5.7008G	106.59	Inf	-Inf	3	Vertical	178	1.50
5700MHz	Pass	PK	5.7016G	119.66	Inf	-Inf	3	Vertical	178	1.50
5700MHz	Pass	PK	5.7304G	63.44	68.20	-4.76	3	Vertical	178	1.50
5700MHz	Pass	AV	11.3943G	42.19	54.00	-11.81	3	Vertical	24	1.53
5700MHz	Pass	PK	11.4054G	54.86	74.00	-19.14	3	Vertical	24	1.53
5700MHz	Pass	PK	17.1009G	59.63	68.20	-8.57	3	Vertical	225	1.46
5700MHz	Pass	AV	11.39658G	44.63	54.00	-9.37	3	Horizontal	9	1.48
5700MHz	Pass	PK	11.397G	58.17	74.00	-15.83	3	Horizontal	9	1.48
5700MHz	Pass	PK	17.09796G	64.14	68.20	-4.06	3	Horizontal	238	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.444G	46.47	54.00	-7.53	3	Vertical	182	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7152G	105.95	Inf	-Inf	3	Vertical	182	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4236G	60.53	74.00	-13.47	3	Vertical	182	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4644G	59.89	68.20	-8.31	3	Vertical	182	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7164G	119.30	Inf	-Inf	3	Vertical	182	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.942G	62.09	68.20	-6.11	3	Vertical	182	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43568G	43.78	54.00	-10.22	3	Vertical	311	1.67
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.4352G	56.52	74.00	-17.48	3	Vertical	311	1.67
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.169G	65.08	68.20	-3.12	3	Vertical	227	1.44
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43556G	45.93	54.00	-8.07	3	Horizontal	9	1.64
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43628G	60.13	74.00	-13.87	3	Horizontal	9	1.64
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16804G	67.26	68.20	-0.94	3	Horizontal	241	1.53
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.2608G	106.81	Inf	-Inf	3	Vertical	163	1.50
5270MHz	Pass	AV	5.3508G	50.80	54.00	-3.20	3	Vertical	163	1.50
5270MHz	Pass	PK	5.262G	119.59	Inf	-Inf	3	Vertical	163	1.50
5270MHz	Pass	PK	5.3508G	64.22	74.00	-9.78	3	Vertical	163	1.50
5270MHz	Pass	AV	15.82272G	42.63	54.00	-11.37	3	Vertical	315	1.37
5270MHz	Pass	PK	10.5406G	53.18	68.20	-15.02	3	Vertical	165	1.79
5270MHz	Pass	PK	15.78324G	56.13	74.00	-17.87	3	Vertical	315	1.37
5270MHz	Pass	AV	15.8034G	43.38	54.00	-10.62	3	Horizontal	311	2.48
5270MHz	Pass	PK	10.52032G	53.56	68.20	-14.64	3	Horizontal	307	2.54
5270MHz	Pass	PK	15.82488G	57.31	74.00	-16.69	3	Horizontal	311	2.48
5310MHz	Pass	AV	5.3064G	102.75	Inf	-Inf	3	Vertical	165	1.50
5310MHz	Pass	AV	5.3548G	53.83	54.00	-0.17	3	Vertical	165	1.50
5310MHz	Pass	PK	5.3064G	115.45	Inf	-Inf	3	Vertical	165	1.50
5310MHz	Pass	PK	5.3552G	68.09	74.00	-5.91	3	Vertical	165	1.50
5310MHz	Pass	AV	10.61316G	40.00	54.00	-14.00	3	Vertical	48	1.50
5310MHz	Pass	AV	15.91584G	41.72	54.00	-12.28	3	Vertical	132	1.81
5310MHz	Pass	PK	10.6056G	52.73	74.00	-21.27	3	Vertical	48	1.50
5310MHz	Pass	PK	15.92568G	55.11	74.00	-18.89	3	Vertical	132	1.81
5310MHz	Pass	AV	10.61352G	40.03	54.00	-13.97	3	Horizontal	164	1.00
5310MHz	Pass	AV	15.91656G	41.66	54.00	-12.34	3	Horizontal	311	1.50
5310MHz	Pass	PK	10.60944G	53.41	74.00	-20.59	3	Horizontal	164	1.00
5310MHz	Pass	PK	15.90576G	54.96	74.00	-19.04	3	Horizontal	311	1.50
5510MHz	Pass	AV	5.458G	48.32	54.00	-5.68	3	Vertical	169	1.50
5510MHz	Pass	AV	5.5164G	102.14	Inf	-Inf	3	Vertical	169	1.50
5510MHz	Pass	PK	5.4584G	62.67	74.00	-11.33	3	Vertical	169	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5510MHz	Pass	PK	5.4664G	67.68	68.20	-0.52	3	Vertical	169	1.50
5510MHz	Pass	PK	5.5168G	115.59	Inf	-Inf	3	Vertical	169	1.50
5510MHz	Pass	AV	11.01988G	41.05	54.00	-12.95	3	Vertical	162	2.06
5510MHz	Pass	PK	11.01412G	52.59	74.00	-21.41	3	Vertical	162	2.06
5510MHz	Pass	PK	16.53408G	54.73	68.20	-13.47	3	Vertical	349	1.80
5510MHz	Pass	AV	11.01376G	40.82	54.00	-13.18	3	Horizontal	307	2.12
5510MHz	Pass	PK	11.01724G	53.66	74.00	-20.34	3	Horizontal	307	2.12
5510MHz	Pass	PK	16.54152G	54.93	68.20	-13.27	3	Horizontal	249	1.50
5550MHz	Pass	AV	5.4564G	49.47	54.00	-4.53	3	Vertical	182	1.50
5550MHz	Pass	AV	5.5448G	106.85	Inf	-Inf	3	Vertical	182	1.50
5550MHz	Pass	PK	5.4572G	62.67	74.00	-11.33	3	Vertical	182	1.50
5550MHz	Pass	PK	5.4656G	64.14	68.20	-4.06	3	Vertical	182	1.50
5550MHz	Pass	PK	5.5568G	118.77	Inf	-Inf	3	Vertical	182	1.50
5550MHz	Pass	AV	11.10372G	41.39	54.00	-12.61	3	Vertical	37	1.49
5550MHz	Pass	PK	11.10612G	53.59	74.00	-20.41	3	Vertical	37	1.49
5550MHz	Pass	PK	16.63644G	54.75	68.20	-13.45	3	Vertical	38	2.78
5550MHz	Pass	AV	11.09472G	43.64	54.00	-10.36	3	Horizontal	4	2.92
5550MHz	Pass	PK	11.09508G	56.00	74.00	-18.00	3	Horizontal	4	2.92
5550MHz	Pass	PK	16.66356G	59.30	68.20	-8.90	3	Horizontal	234	1.50
5670MHz	Pass	AV	5.6652G	104.56	Inf	-Inf	3	Vertical	179	1.50
5670MHz	Pass	PK	5.6754G	117.18	Inf	-Inf	3	Vertical	179	1.50
5670MHz	Pass	PK	5.7264G	65.01	68.20	-3.19	3	Vertical	179	1.50
5670MHz	Pass	AV	11.33988G	42.87	54.00	-11.13	3	Vertical	201	1.77
5670MHz	Pass	PK	11.36952G	53.13	74.00	-20.87	3	Vertical	201	1.77
5670MHz	Pass	PK	17.0228G	54.84	68.20	-13.36	3	Vertical	229	1.46
5670MHz	Pass	AV	11.3364G	42.94	54.00	-11.06	3	Horizontal	9	3.00
5670MHz	Pass	PK	11.34708G	55.20	74.00	-18.80	3	Horizontal	9	3.00
5670MHz	Pass	PK	17.02452G	56.32	68.20	-11.88	3	Horizontal	238	1.58
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4424G	48.27	54.00	-5.73	3	Vertical	181	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7148G	107.29	Inf	-Inf	3	Vertical	181	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4376G	61.06	74.00	-12.94	3	Vertical	181	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4616G	61.46	68.20	-6.74	3	Vertical	181	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.716G	118.93	Inf	-Inf	3	Vertical	181	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.8564G	63.71	68.20	-4.49	3	Vertical	181	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4152G	42.80	54.00	-11.20	3	Vertical	307	1.69
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.42336G	55.06	74.00	-18.94	3	Vertical	307	1.69
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.1324G	63.39	68.20	-4.81	3	Vertical	229	1.48
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.42468G	45.70	54.00	-8.30	3	Horizontal	15	2.06
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41544G	58.78	74.00	-15.22	3	Horizontal	15	2.06
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.13024G	66.36	68.20	-1.84	3	Horizontal	236	1.53
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.146G	47.41	54.00	-6.59	3	Vertical	162	1.50
5290MHz	Pass	AV	5.296G	97.91	Inf	-Inf	3	Vertical	162	1.50
5290MHz	Pass	AV	5.356G	53.15	54.00	-0.85	3	Vertical	162	1.50
5290MHz	Pass	PK	5.147G	60.55	74.00	-13.45	3	Vertical	162	1.50
5290MHz	Pass	PK	5.285G	110.74	Inf	-Inf	3	Vertical	162	1.50
5290MHz	Pass	PK	5.356G	64.61	74.00	-9.39	3	Vertical	162	1.50
5290MHz	Pass	PK	5.466G	61.08	68.20	-7.12	3	Vertical	162	1.50
5290MHz	Pass	AV	15.8388G	41.97	54.00	-12.03	3	Vertical	360	1.21
5290MHz	Pass	PK	10.56992G	53.10	68.20	-15.10	3	Vertical	164	1.78
5290MHz	Pass	PK	15.89272G	54.51	74.00	-19.49	3	Vertical	360	1.21
5290MHz	Pass	AV	15.87624G	41.96	54.00	-12.04	3	Horizontal	32	1.50
5290MHz	Pass	PK	10.54144G	53.89	68.20	-14.31	3	Horizontal	138	2.39
5290MHz	Pass	PK	15.86488G	54.67	74.00	-19.33	3	Horizontal	32	1.50
5530MHz	Pass	AV	5.35G	48.76	54.00	-5.24	3	Vertical	179	1.50
5530MHz	Pass	AV	5.456G	53.48	54.00	-0.52	3	Vertical	179	1.50
5530MHz	Pass	AV	5.526G	102.71	Inf	-Inf	3	Vertical	179	1.50
5530MHz	Pass	PK	5.34G	61.18	68.20	-7.02	3	Vertical	179	1.50
5530MHz	Pass	PK	5.445G	64.49	74.00	-9.51	3	Vertical	179	1.50
5530MHz	Pass	PK	5.466G	65.83	68.20	-2.37	3	Vertical	179	1.50
5530MHz	Pass	PK	5.535G	115.00	Inf	-Inf	3	Vertical	179	1.50
5530MHz	Pass	PK	5.78G	62.01	68.20	-6.19	3	Vertical	179	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5530MHz	Pass	AV	11.05983G	44.24	54.00	-9.76	3	Vertical	164	1.84
5530MHz	Pass	PK	11.05983G	54.21	74.00	-19.79	3	Vertical	164	1.84
5530MHz	Pass	PK	16.57644G	54.95	68.20	-13.25	3	Vertical	9	1.57
5530MHz	Pass	AV	11.04762G	40.31	54.00	-13.69	3	Horizontal	323	2.36
5530MHz	Pass	PK	11.04774G	53.80	74.00	-20.20	3	Horizontal	323	2.36
5530MHz	Pass	PK	16.6337G	55.92	68.20	-12.28	3	Horizontal	325	1.51
5610MHz	Pass	AV	5.376G	48.43	54.00	-5.57	3	Vertical	170	1.50
5610MHz	Pass	AV	5.616G	101.85	Inf	-Inf	3	Vertical	170	1.50
5610MHz	Pass	PK	5.456G	60.53	74.00	-13.47	3	Vertical	170	1.50
5610MHz	Pass	PK	5.469G	61.29	68.20	-6.91	3	Vertical	170	1.50
5610MHz	Pass	PK	5.615G	114.46	Inf	-Inf	3	Vertical	170	1.50
5610MHz	Pass	PK	5.727G	67.13	68.20	-1.07	3	Vertical	170	1.50
5610MHz	Pass	AV	11.21984G	41.69	54.00	-12.31	3	Vertical	202	1.91
5610MHz	Pass	PK	11.25648G	53.45	74.00	-20.55	3	Vertical	202	1.91
5610MHz	Pass	PK	16.7996G	54.67	68.20	-13.53	3	Vertical	201	2.50
5610MHz	Pass	AV	11.23616G	42.15	54.00	-11.85	3	Horizontal	8	3.00
5610MHz	Pass	PK	11.23424G	54.58	74.00	-19.42	3	Horizontal	8	3.00
5610MHz	Pass	PK	16.81368G	55.36	68.20	-12.84	3	Horizontal	234	1.47
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4476G	48.81	54.00	-5.19	3	Vertical	238	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6864G	105.45	Inf	-Inf	3	Vertical	238	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.45G	61.96	74.00	-12.04	3	Vertical	238	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4656G	61.47	68.20	-6.73	3	Vertical	238	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6864G	117.64	Inf	-Inf	3	Vertical	238	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8568G	66.63	68.20	-1.57	3	Vertical	238	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.37984G	43.16	54.00	-10.84	3	Vertical	201	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.35792G	54.10	74.00	-19.90	3	Vertical	201	1.85
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.06328G	59.27	68.20	-8.93	3	Vertical	226	1.41
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.396G	43.23	54.00	-10.77	3	Horizontal	10	1.59
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.3864G	56.11	74.00	-17.89	3	Horizontal	10	1.59
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.0764G	61.76	68.20	-6.44	3	Horizontal	237	1.57

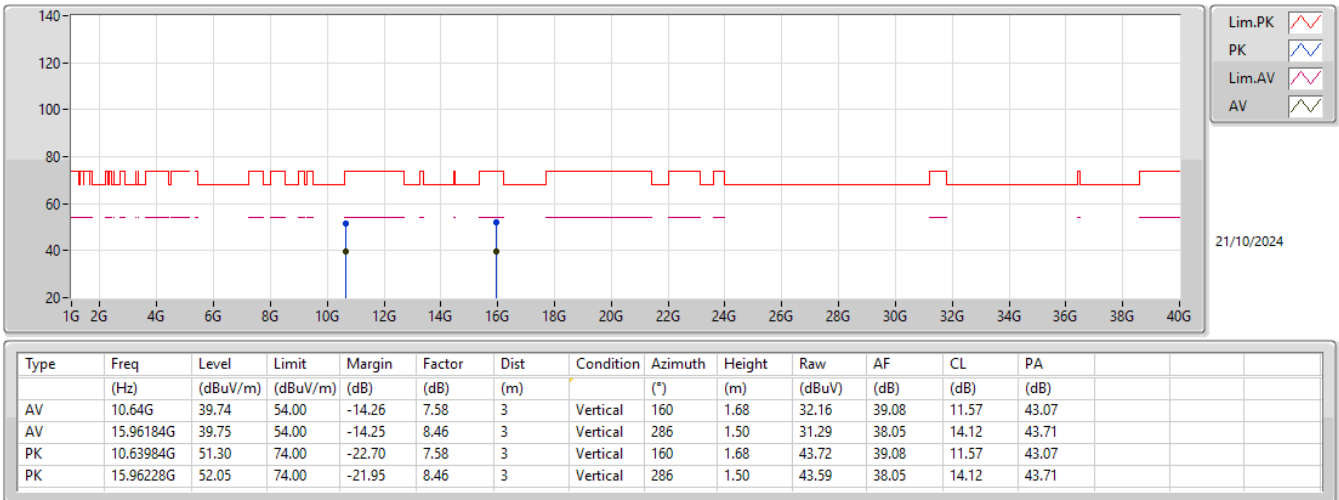
5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX



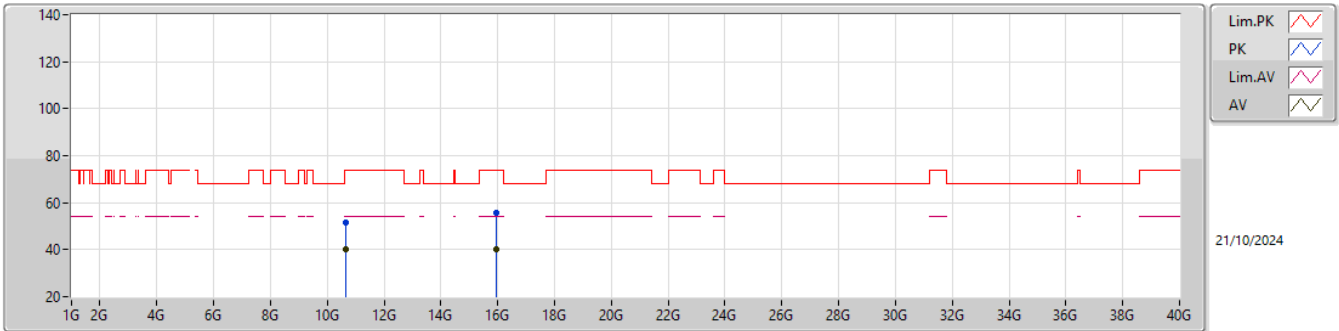
5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

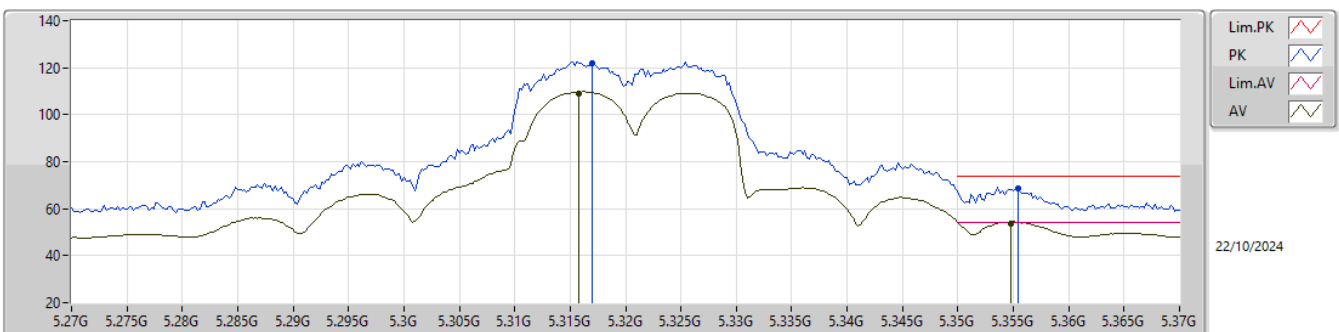
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.64096G	40.01	54.00	-13.99	7.58	3	Horizontal	308	2.20	32.43	39.08	11.57	43.07
AV	15.95204G	40.00	54.00	-14.00	8.52	3	Horizontal	310	2.27	31.48	38.09	14.12	43.69
PK	10.63672G	51.81	74.00	-22.19	7.57	3	Horizontal	308	2.20	44.24	39.07	11.57	43.07
PK	15.95696G	55.67	74.00	-18.33	8.49	3	Horizontal	310	2.27	47.18	38.07	14.12	43.70

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

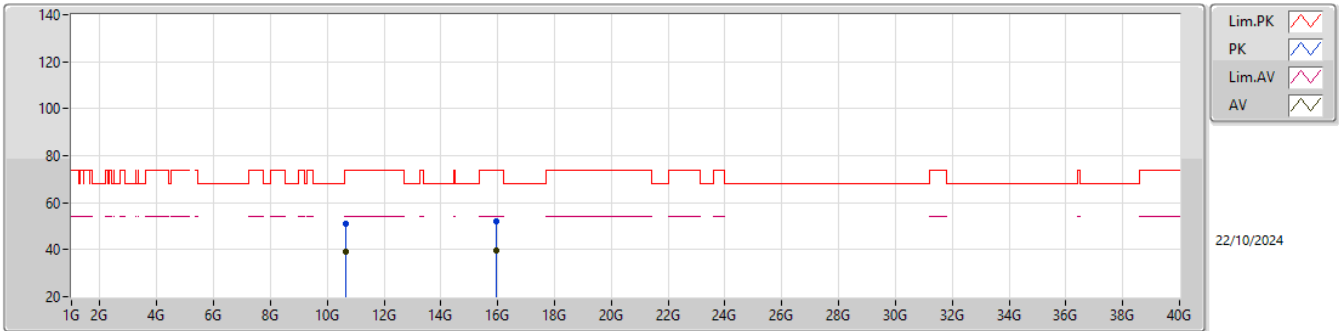
5320MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3158G	108.79	Inf	-Inf	6.20	3	Vertical	164	1.50	102.59	33.10	8.11	35.01
AV	5.3548G	53.43	54.00	-0.57	6.23	3	Vertical	164	1.50	47.20	33.09	8.15	35.01
PK	5.317G	121.75	Inf	-Inf	6.20	3	Vertical	164	1.50	115.55	33.10	8.11	35.01
PK	5.3554G	68.38	74.00	-5.62	6.23	3	Vertical	164	1.50	62.15	33.09	8.15	35.01

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

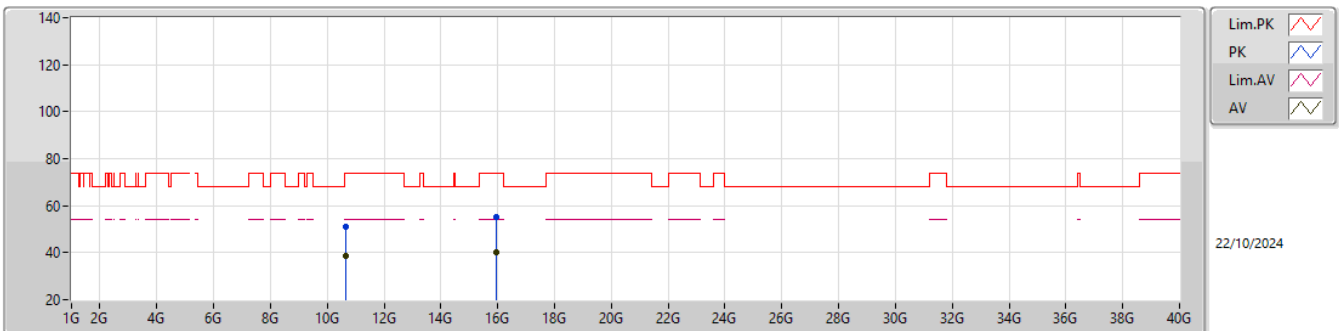
5320MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.63982G	39.25	54.00	-14.75	7.58	3	Vertical	160	1.83	31.67	39.08	11.57	43.07
AV	15.96018G	39.60	54.00	-14.40	8.48	3	Vertical	317	1.28	31.12	38.06	14.12	43.70
PK	10.63454G	50.84	74.00	-23.16	7.57	3	Vertical	160	1.83	43.27	39.07	11.57	43.07
PK	15.95904G	52.08	74.00	-21.92	8.48	3	Vertical	317	1.28	43.60	38.06	14.12	43.70

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

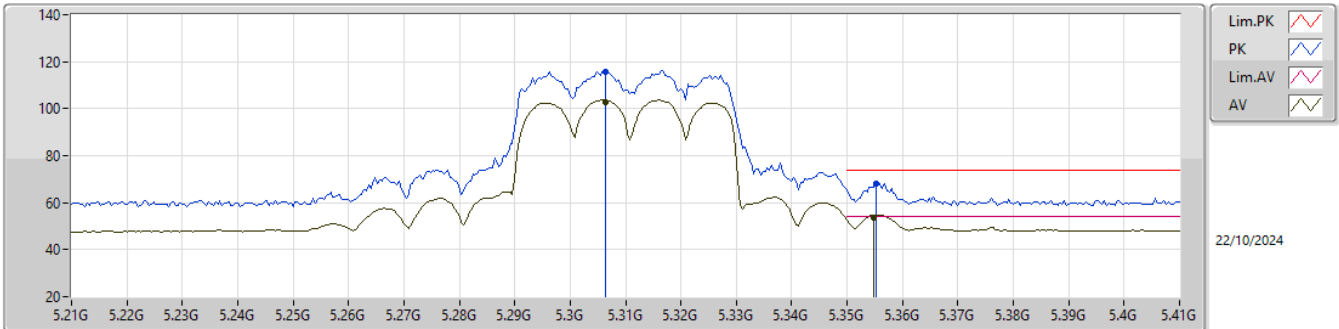
5320MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.64222G	38.68	54.00	-15.32	7.58	3	Horizontal	342	2.20	31.10	39.08	11.57	43.07
AV	15.9588G	40.35	54.00	-13.65	8.48	3	Horizontal	310	2.55	31.87	38.06	14.12	43.70
PK	10.65422G	51.08	74.00	-22.92	7.59	3	Horizontal	342	2.20	43.49	39.09	11.58	43.08
PK	15.95952G	55.34	74.00	-18.66	8.48	3	Horizontal	310	2.55	46.86	38.06	14.12	43.70

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

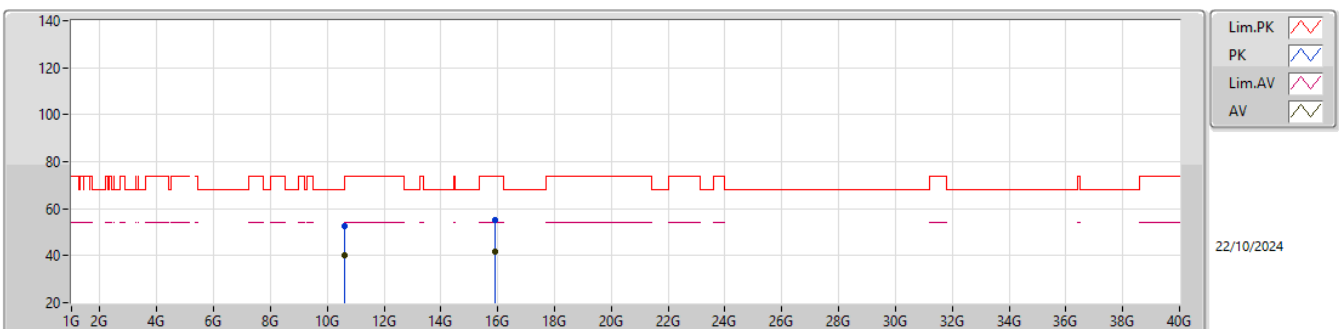
5310MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	5.3064G	102.75	Inf	-Inf	6.19	3	Vertical	165	1.50	96.56	33.10	8.10	35.01
AV	5.3548G	53.83	54.00	-0.17	6.23	3	Vertical	165	1.50	47.60	33.09	8.15	35.01
PK	5.3064G	115.45	Inf	-Inf	6.19	3	Vertical	165	1.50	109.26	33.10	8.10	35.01
PK	5.3552G	68.09	74.00	-5.91	6.23	3	Vertical	165	1.50	61.86	33.09	8.15	35.01

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

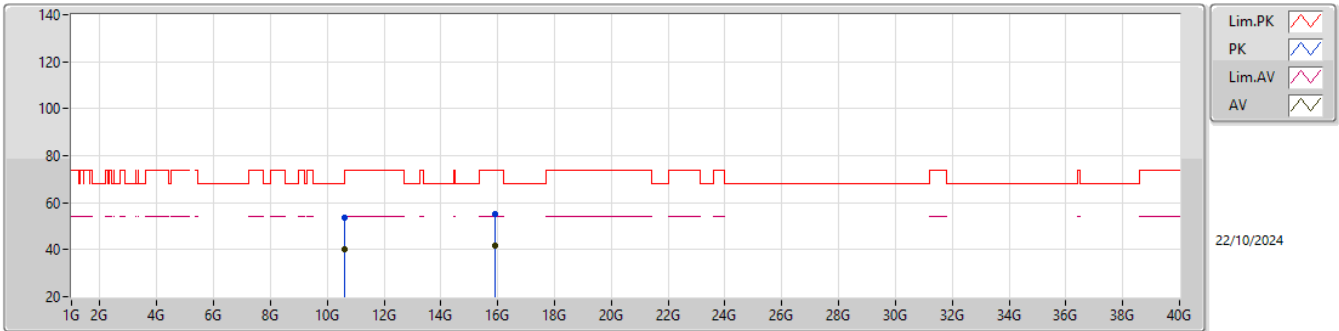
5310MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	10.61316G	40.00	54.00	-14.00	7.54	3	Vertical	48	1.50	32.46	39.03	11.56	43.05
AV	15.91584G	41.72	54.00	-12.28	8.76	3	Vertical	132	1.81	32.96	38.30	14.10	43.64
PK	10.6056G	52.73	74.00	-21.27	7.51	3	Vertical	48	1.50	45.22	39.01	11.55	43.05
PK	15.92568G	55.11	74.00	-18.89	8.69	3	Vertical	132	1.81	46.42	38.25	14.10	43.66

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

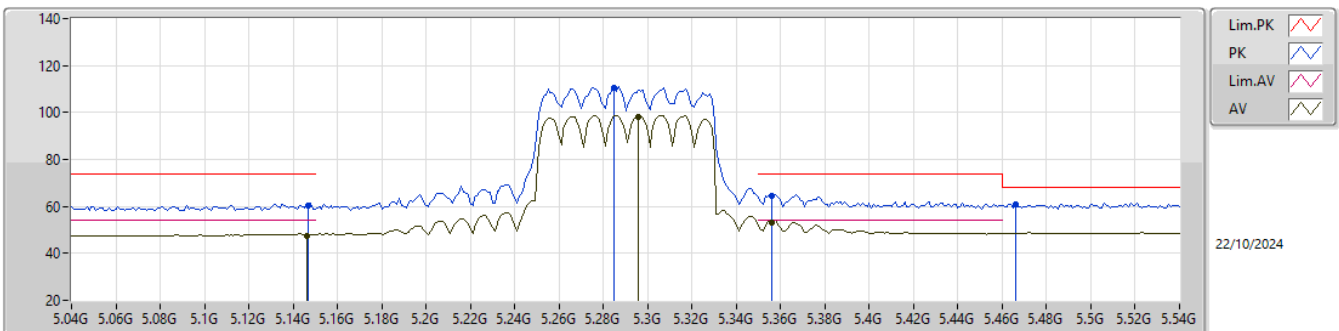
5310MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	10.61352G	40.03	54.00	-13.97	7.54	3	Horizontal	164	1.00	32.49	39.03	11.56	43.05
AV	15.91656G	41.66	54.00	-12.34	8.76	3	Horizontal	311	1.50	32.90	38.30	14.10	43.64
PK	10.60944G	53.41	74.00	-20.59	7.52	3	Horizontal	164	1.00	45.89	39.02	11.55	43.05
PK	15.90576G	54.96	74.00	-19.04	8.83	3	Horizontal	311	1.50	46.13	38.37	14.09	43.63

5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

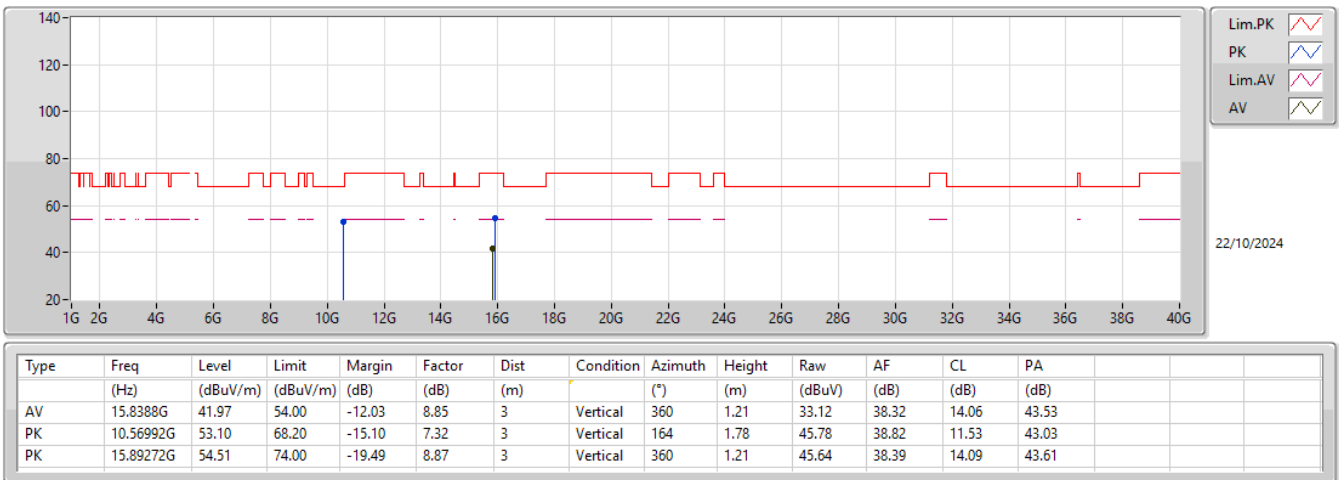
5290MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	5.146G	47.41	54.00	-6.59	6.26	3	Vertical	162	1.50	41.15	33.29	7.95	34.98
AV	5.296G	97.91	Inf	-Inf	6.19	3	Vertical	162	1.50	91.72	33.10	8.09	35.00
AV	5.356G	53.15	54.00	-0.85	6.23	3	Vertical	162	1.50	46.92	33.09	8.15	35.01
PK	5.147G	60.55	74.00	-13.45	6.26	3	Vertical	162	1.50	54.29	33.29	7.95	34.98
PK	5.285G	110.74	Inf	-Inf	6.17	3	Vertical	162	1.50	104.57	33.10	8.07	35.00
PK	5.356G	64.61	74.00	-9.39	6.23	3	Vertical	162	1.50	58.38	33.09	8.15	35.01
PK	5.466G	61.08	68.20	-7.12	6.17	3	Vertical	162	1.50	54.91	32.96	8.24	35.03

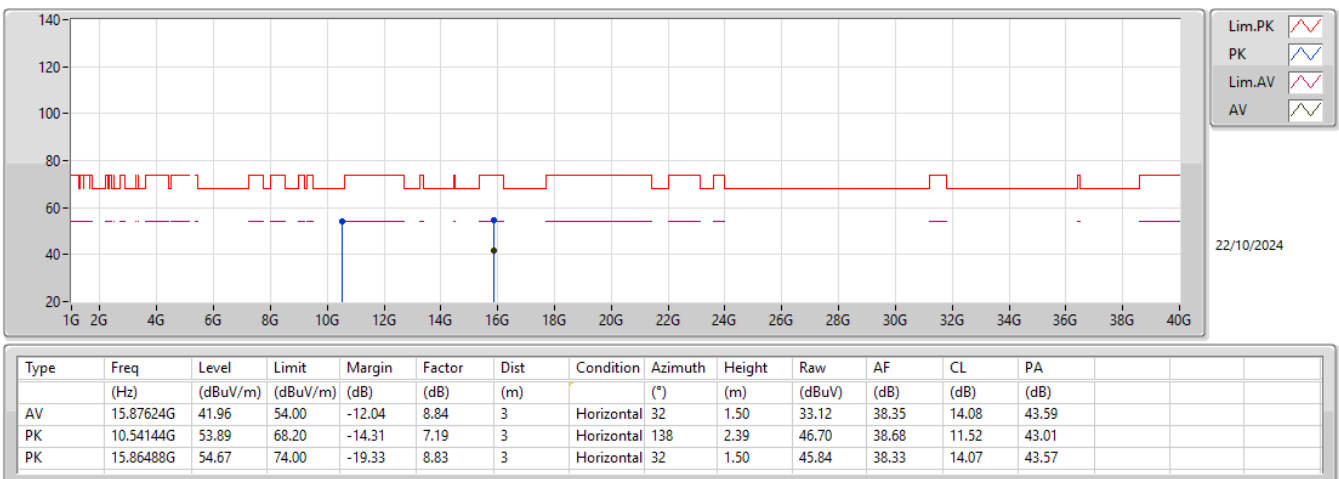
5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TX



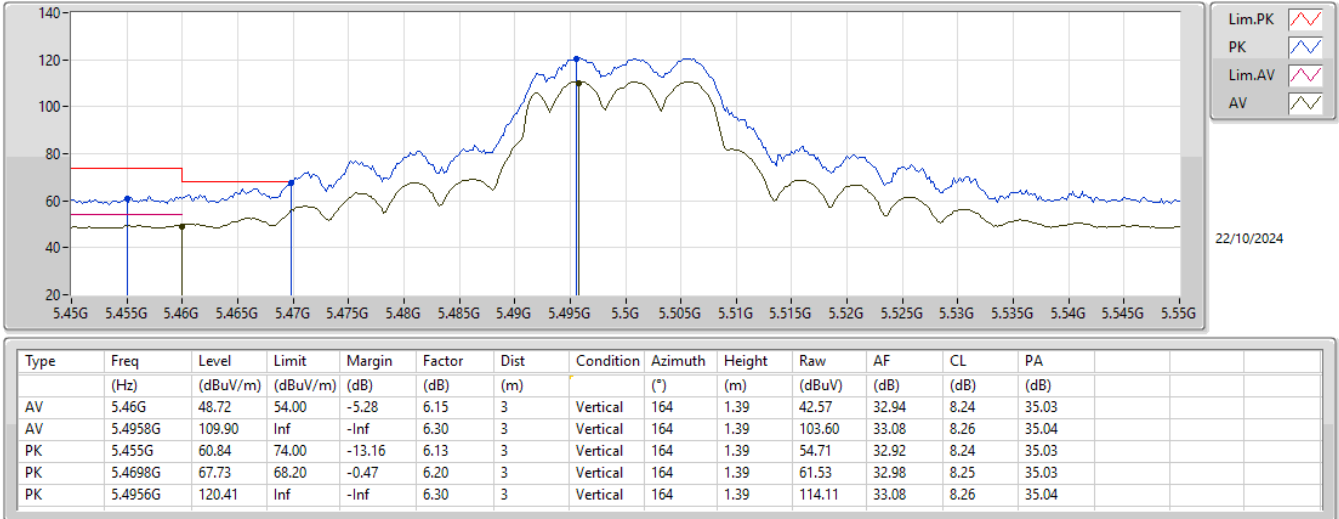
5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TX



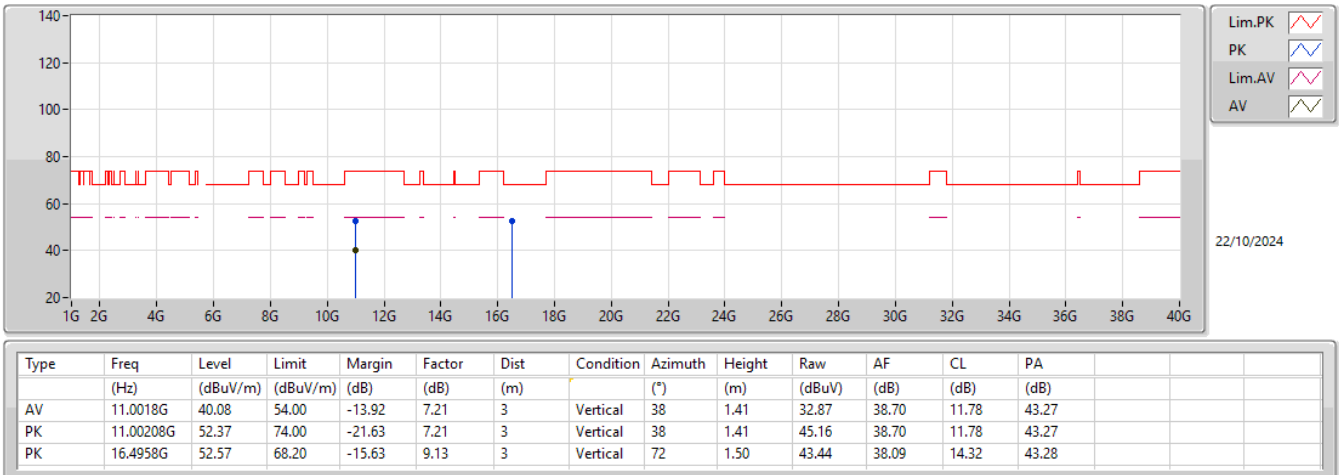
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX



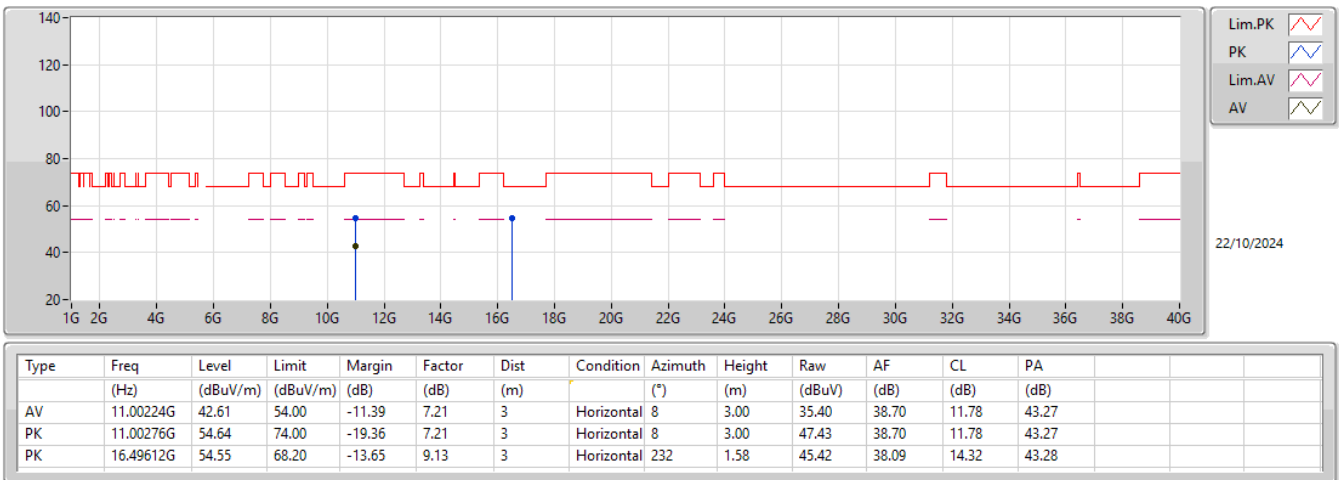
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX



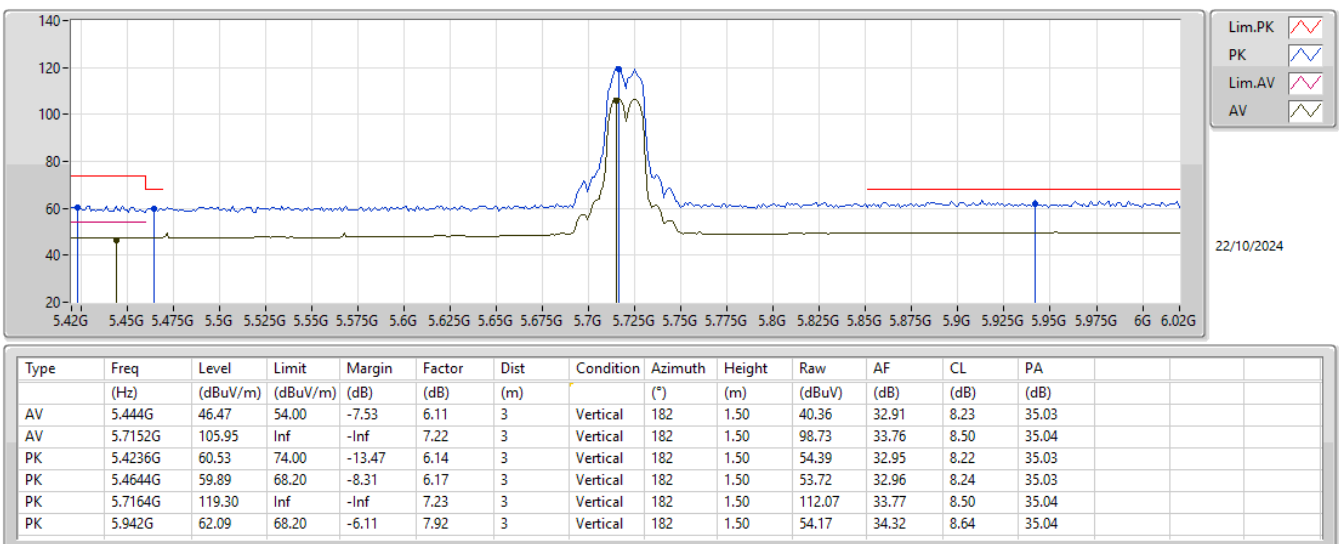
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX



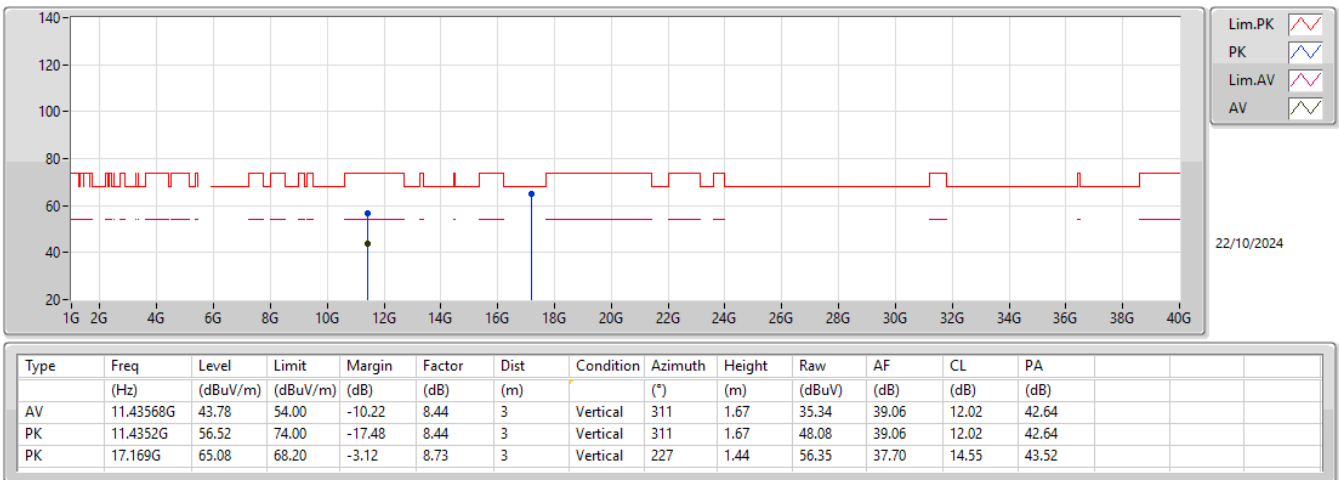
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX



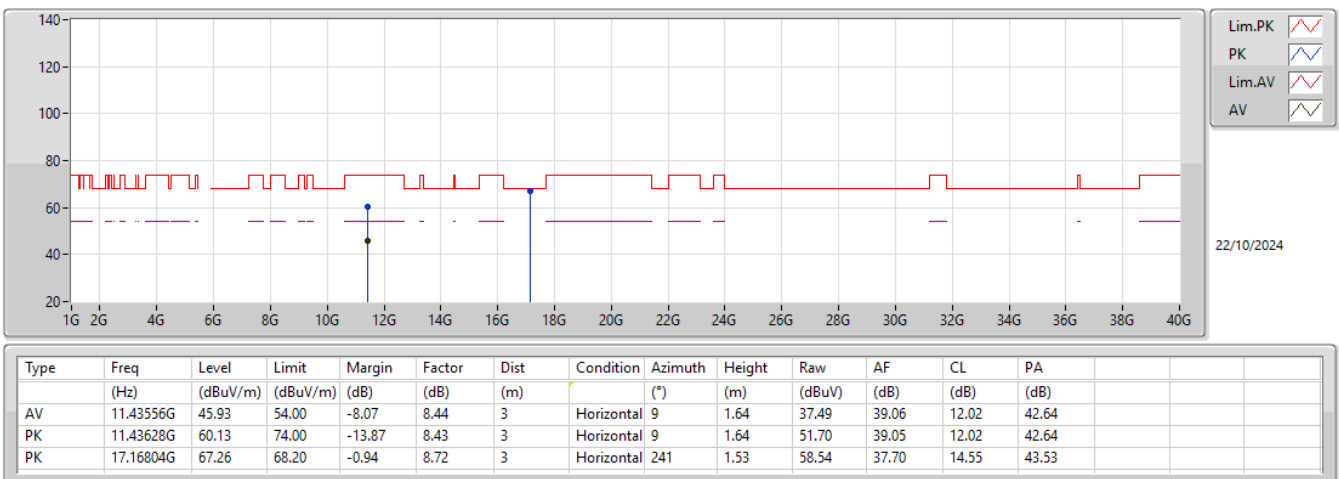
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5720MHz Straddle 5.47-5.725GHz_TX



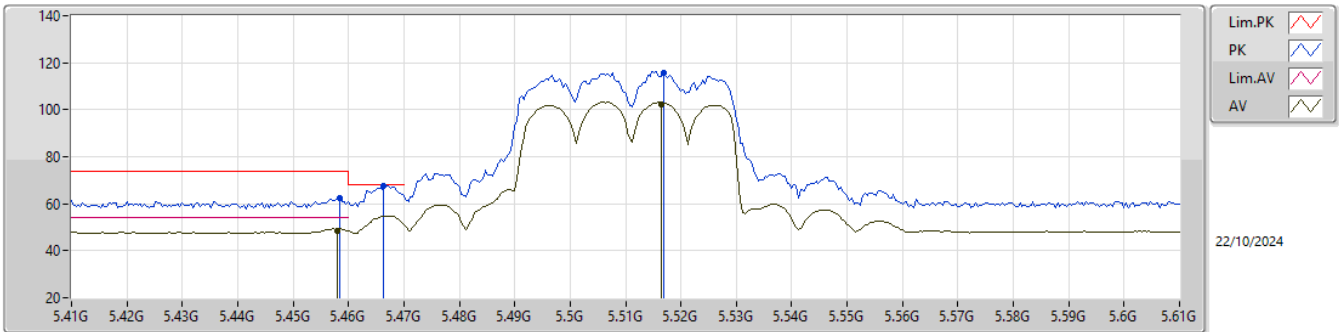
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX



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

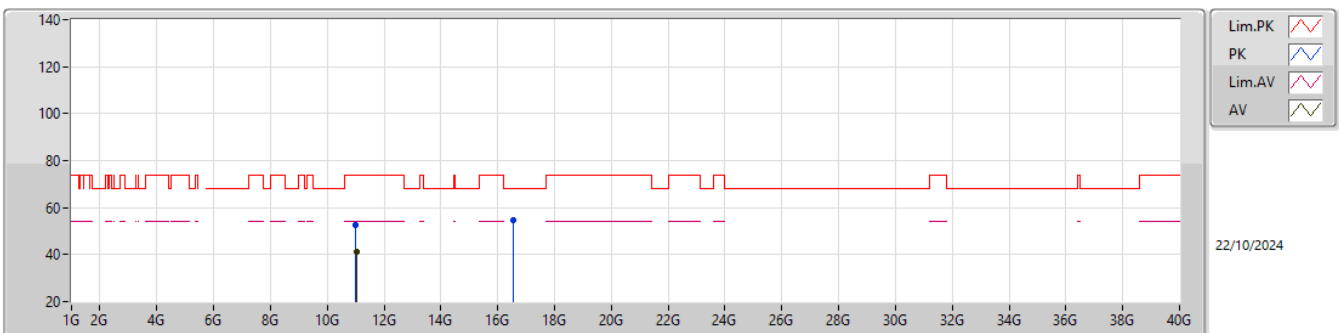
5510MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)				
AV	5.458G	48.32	54.00	-5.68	6.14	3	Vertical	169	1.50	42.18	32.93	8.24	35.03				
AV	5.5164G	102.14	Inf	-Inf	6.34	3	Vertical	169	1.50	95.80	33.10	8.28	35.04				
PK	5.4584G	62.67	74.00	-11.33	6.14	3	Vertical	169	1.50	56.53	32.93	8.24	35.03				
PK	5.4664G	67.68	68.20	-0.52	6.18	3	Vertical	169	1.50	61.50	32.97	8.24	35.03				
PK	5.5168G	115.59	Inf	-Inf	6.34	3	Vertical	169	1.50	109.25	33.10	8.28	35.04				

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

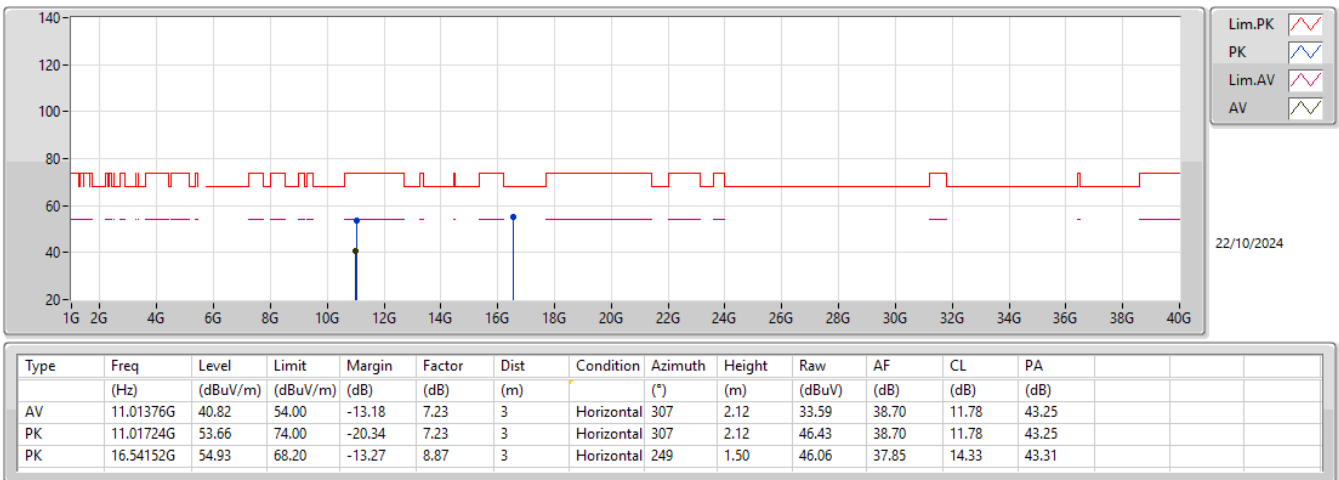
5510MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)				
AV	11.01988G	41.05	54.00	-12.95	7.25	3	Vertical	162	2.06	33.80	38.70	11.79	43.24				
PK	11.01412G	52.59	74.00	-21.41	7.23	3	Vertical	162	2.06	45.36	38.70	11.78	43.25				
PK	16.53408G	54.73	68.20	-13.47	8.92	3	Vertical	349	1.80	45.81	37.90	14.33	43.31				

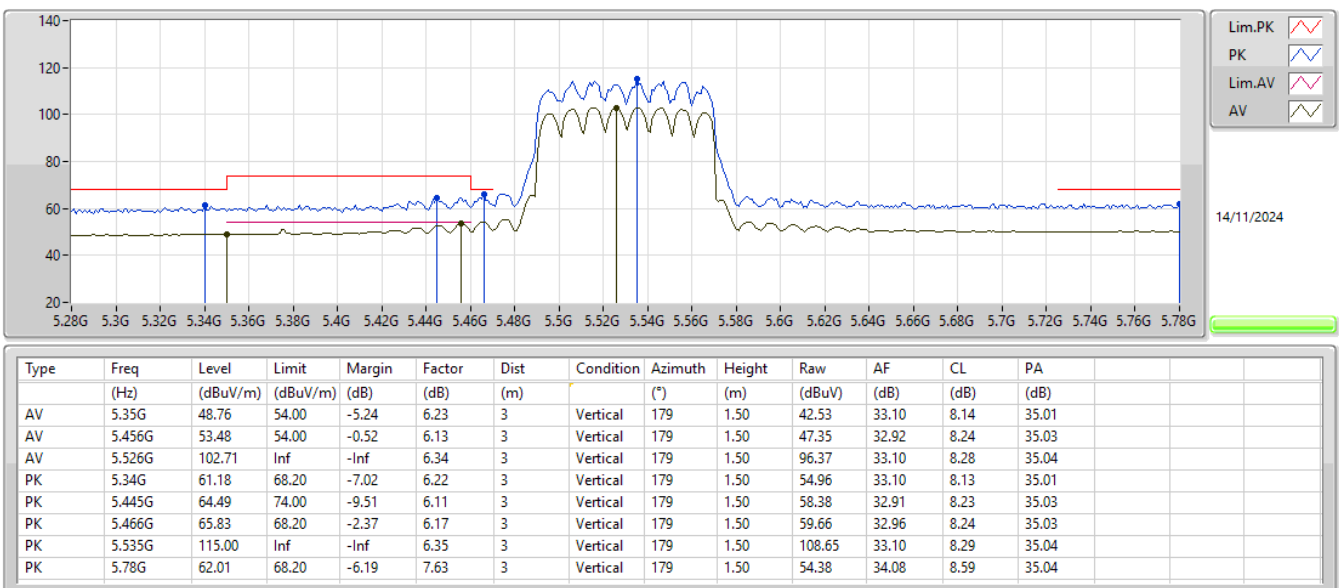
5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TX



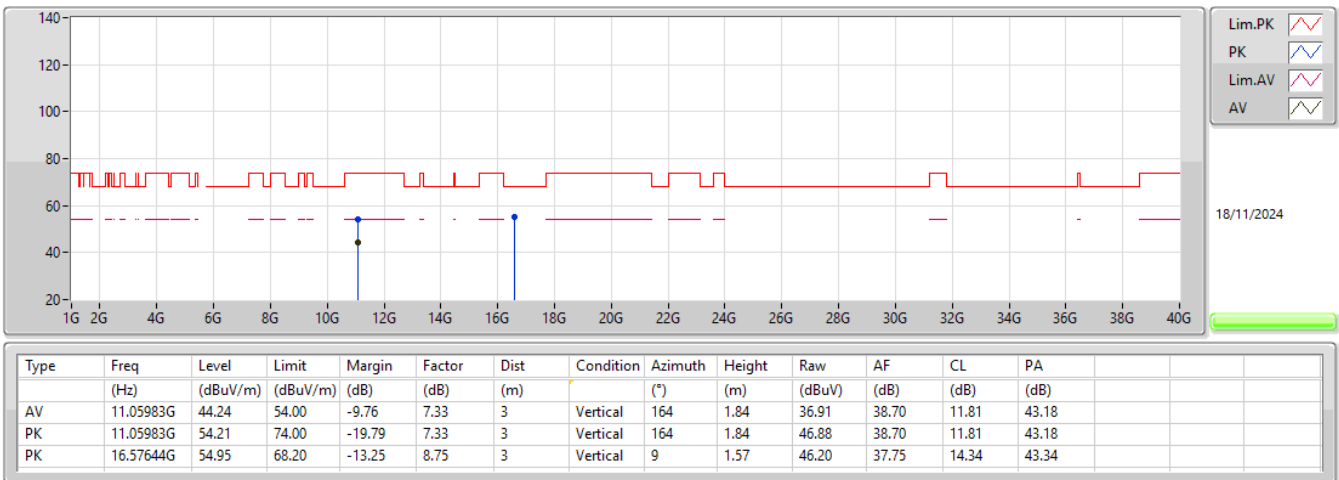
5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TX



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

5530MHz_TX



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

5530MHz_TX

