Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	2AHKM-CODA5814Q1
Equipment	:	DOCIS 3.1 Wi-Fi 6 EMTA Gateway
Brand Name	:	Hitron
Model Name	:	CODA5814Q, CODA5810Q
Applicant	:	Hitron Technologies Inc. No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan
Manufacturer	:	Hitron Technologies Inc. No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Jun. 28, 2022, and testing was started from Oct. 18, 2022 and completed on Nov. 04, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR193028-02AC	01	Initial issue of report	Nov. 18, 2022

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 EIRP Output Power	PASS	-
3.4	15.407(a)	EIRP Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:
1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to report "Measurement Uncertainty".
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Penny Kao

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5895	a, n (HT20), ac (VHT20), ax (HEW20)	5845-5885	169-177[3]
5725-5895	n (HT40), ac (VHT40), ax (HEW40)	5835-5875	167-175[2]
5725-5895	ac (VHT80), ax (HEW80)	5855	171[1]
5725-5895	ac (VHT160), ax (HEW160)	5815	163[1]

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11a	20	4TX
5.725-5.895GHz	802.11n HT20	20	4TX
5.725-5.895GHz	802.11n HT20-BF	20	4TX
5.725-5.895GHz	802.11ac VHT20	20	4TX
5.725-5.895GHz	802.11ac VHT20-BF	20	4TX
5.725-5.895GHz	802.11ax HEW20	20	4TX
5.725-5.895GHz	802.11ax HEW20-BF	20	4TX
5.725-5.895GHz	802.11n HT40	40	4TX
5.725-5.895GHz	802.11n HT40-BF	40	4TX
5.725-5.895GHz	802.11ac VHT40	40	4TX
5.725-5.895GHz	802.11ac VHT40-BF	40	4TX
5.725-5.895GHz	802.11ax HEW40	40	4TX
5.725-5.895GHz	802.11ax HEW40-BF	40	4TX
5.725-5.895GHz	802.11ac VHT80	80	4TX
5.725-5.895GHz	802.11ac VHT80-BF	80	4TX
5.725-5.895GHz	802.11ax HEW80	80	4TX
5.725-5.895GHz	802.11ax HEW80-BF	80	4TX
5.725-5.895GHz	802.11ac VHT160	160	4TX
5.725-5.895GHz	802.11ac VHT160-BF	160	4TX
5.725-5.895GHz	802.11ax HEW160	160	4TX
5.725-5.895GHz	802.11ax HEW160-BF	160	4TX

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Airgain	N03HTAFE-PK1-LA1X80BUR2	PCB Antenna	I-PEX	Note 1
2	2	Airgain	N03HTAFF-PK1-LB1X90BU	PCB Antenna	I-PEX	
3	3	Airgain	N03HTAFG-PK1-LG1X130BUR2	PCB Antenna	I-PEX	
4	4	Airgain	N03HTAFH-PK1-LW1X150BU	PCB Antenna	I-PEX	

Note 1:

Ant.	Port	Antenna Gain (dBi)					
		2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 4
1	1	3.13	2.72	2.24	2.67	2.28	2.95
2	2	1.42	2.14	2.8	3.46	3.95	4.03
3	3	3.4	2.82	2.58	1.87	3.38	3.3
4	4	3.26	2.82	3.83	3.78	4.93	5.47
Directional Gain (dBi)							
		2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 4
4T1S		5.92	5.44	6.34	6.46	6.27	6.54
4T2S		3.4	2.82	3.83	3.78	4.93	5.47
4T4S		3.4	2.82	3.83	3.78	4.93	5.47

Note 2: The above information (brand / model name / antenna type) was declared by the manufacturer.

Note 3: WLAN 2.4GHz/5GHz(UNII 1~4): The directional gain is measured which follows the procedure of KDB 662911 D03.

Note 4: The EUT has four antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (4TX/4RX)

Port 1 and Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

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

For 5GHz function:

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

Port 1 and Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1 and Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.952	0.21	1.977m	1k
802.11ax HEW20	0.867	0.62	5.446m	300
802.11ax HEW40	0.868	0.61	5.446m	300
802.11ax HEW80	0.851	0.7	5.445m	300
802.11ax HEW160	0.937	0.28	5.446m	300

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Device Type	☒	Indoor Access Point	☒	Subordinate
	☐	Indoor Client		
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	Non-beamforming mode: QSPR Version 5.0-00197 Beamforming mode: Dos[10.0.10586]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	Voice Interface	Case color of EUT	Battery Port
CODA5814Q	V	Black	V
CODA5810Q	X	Black	X

Note1: From the above models, model: CODA5814Q was selected as representative model for the test and its data was recorded in this report.

Note2: The above information was declared by manufacturer.

1.2 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 D03 v01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01
- FCC KDB 291074 D02 v01

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	TH03-CB	Owen Hsu	22.5~23.8 / 55~61	Oct. 29, 2022~ Nov. 04, 2022
Radiated Below 1GHz	03CH06-CB	Stim Sung	23.8-24.9 / 55-58	Oct. 18, 2022
Radiated Above 1GHz	03CH02-CB	Gordon Hung	22.6~24.2 / 56~60	Oct. 18, 2022~ Nov. 03, 2022
	03CH03-CB		22.4~24.6 / 55~59	
Radiated Co-location	03CH06-CB	Gordon Hung	24.3~25.6 / 60~63	Oct. 18, 2022~ Nov. 03, 2022
AC Conduction	CO01-CB	Tim Chen	21~22 / 56~58	Oct. 19, 2022

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)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5845MHz	21
5865MHz	20.5
5885MHz	20.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5845MHz	20.5
5865MHz	20.5
5885MHz	20.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5835MHz	23.5
5875MHz	23
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5855MHz	23
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5815MHz	22.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5845MHz	20.5
5865MHz	20.5
5885MHz	20.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5835MHz	23
5875MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5855MHz	23
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5815MHz	23

Note:
- Evaluated HEW20/HEW40/HEW80/HEW160 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum EIRP Output Power EIRP 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	Normal Link
	After evaluating, the worst case was found at Y axis, thus the measurement will follow this same test configuration.
1	EUT in Y axis + Adapter
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Y axis, thus the measurement will follow this same test configuration.
1	EUT in Y axis

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA193028-02 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	MOSO	MS-V4000R120-050A0-US	Input: 100-240V~, 50/60Hz, 1.3A max. Output: 12.0V, 4.0A
Others			
RJ-45 cable*1: Non-shielded, 1.5m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Phone1	SAMPO	HT-B 907WL	N/A
B	Phone2	SAMPO	HT-B 907WL	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	WAN NB	DELL	E6430	N/A
F	CO (Terminal System)	Jinghong	D3 CMTS JH-HE3416B	N/A
G	LAN NB	DELL	E6430	N/A

For Radiated (below 1GHz):

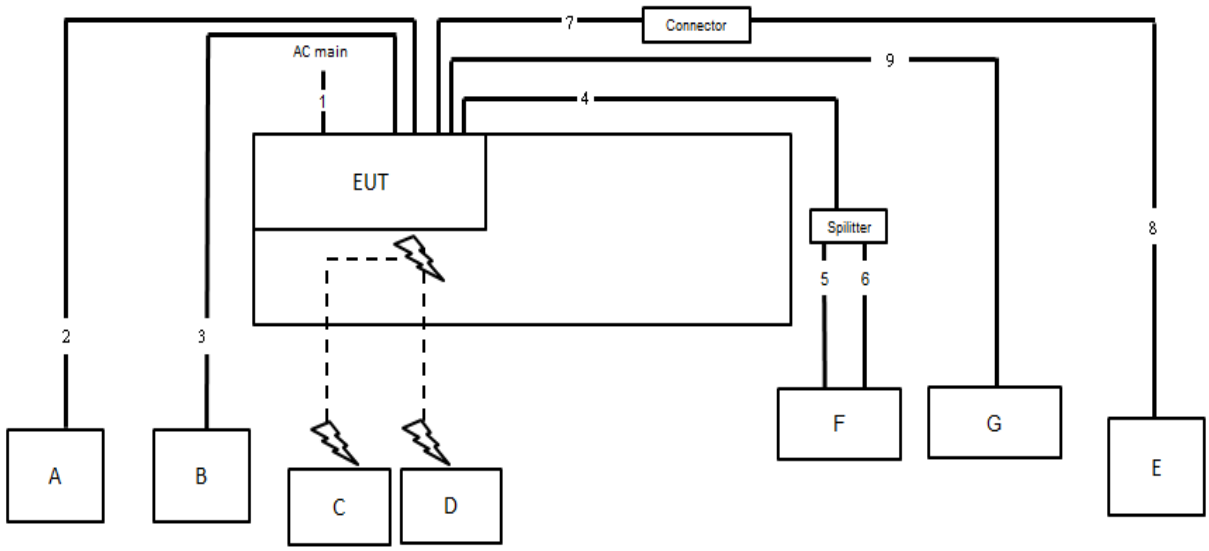
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Terminal System	N/A	JH-HE3416B	N/A
B	NB (LAN)	DELL	E4300	N/A
C	NB (2.4G WIFI)	DELL	E4300	N/A
D	NB (5G WIFI)	DELL	E4300	N/A
E	Phone1	H-T-T	F-689	N/A
F	Phone2	H-T-T	F-689	N/A
G	PC(2.5G WAN)	DELL	T3400	N/A

For Radiated (above 1GHz) and RF Conducted:

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

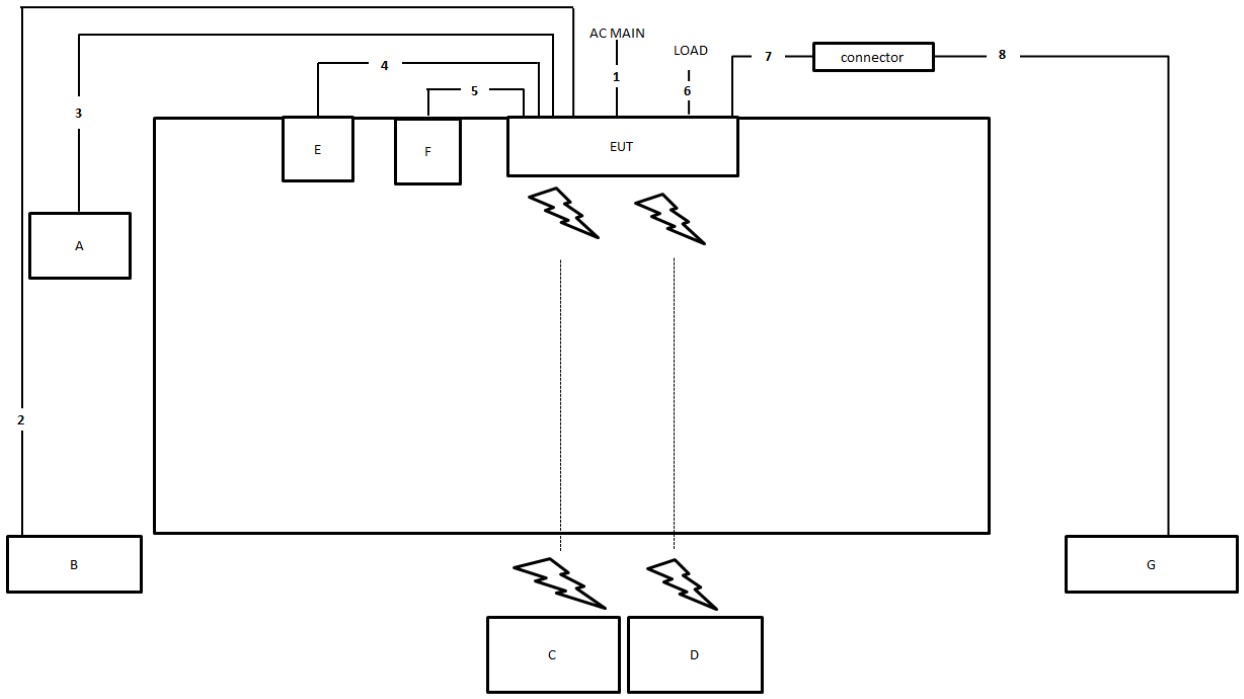
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



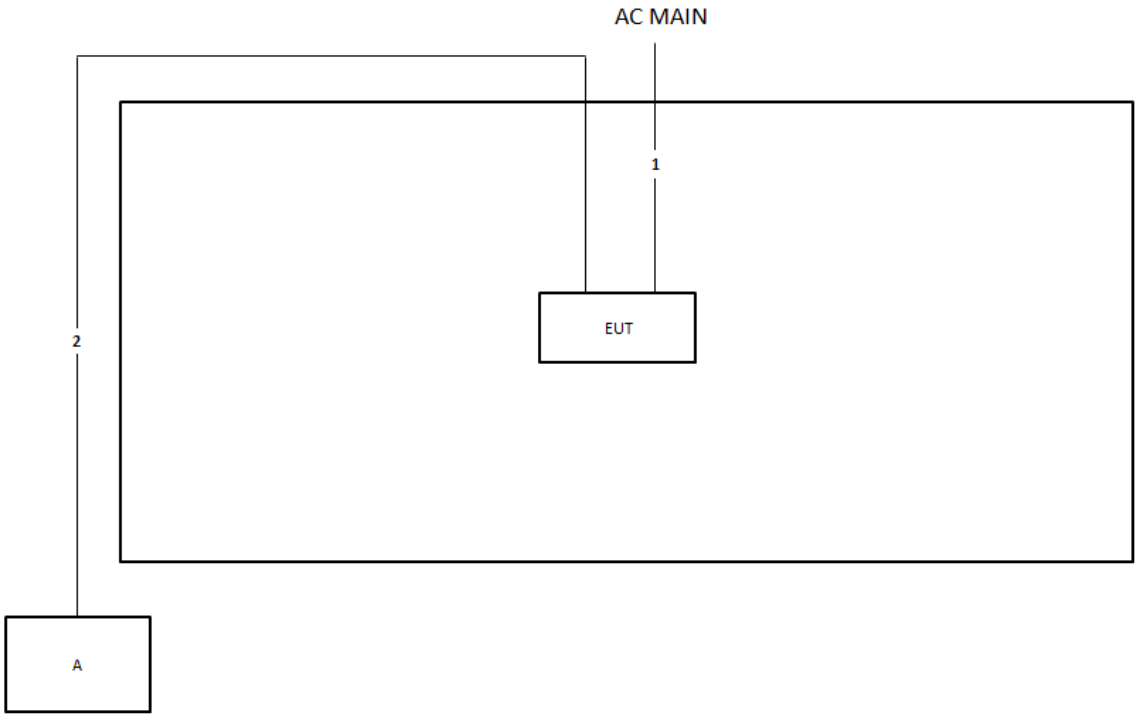
Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	RJ-11 cable	No	10m
3	RJ-11 cable	No	10m
4	Coaxial cable	Yes	10m
5	Coaxial cable	Yes	1m
6	Coaxial cable	Yes	1m
7	RJ-45 cable	No	1.5m
8	RJ-45 cable	No	10m
9	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	RJ-45 cable	No	10m
3	Coaxial cable	Yes	10m
4	RJ-11 cable	No	1.5m
5	RJ-11 cable	No	1.5m
6	RJ-45 cable	No	1.5m
7	RJ-45 cable	No	1.5m
8	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	RJ-45 cable	No	10m

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

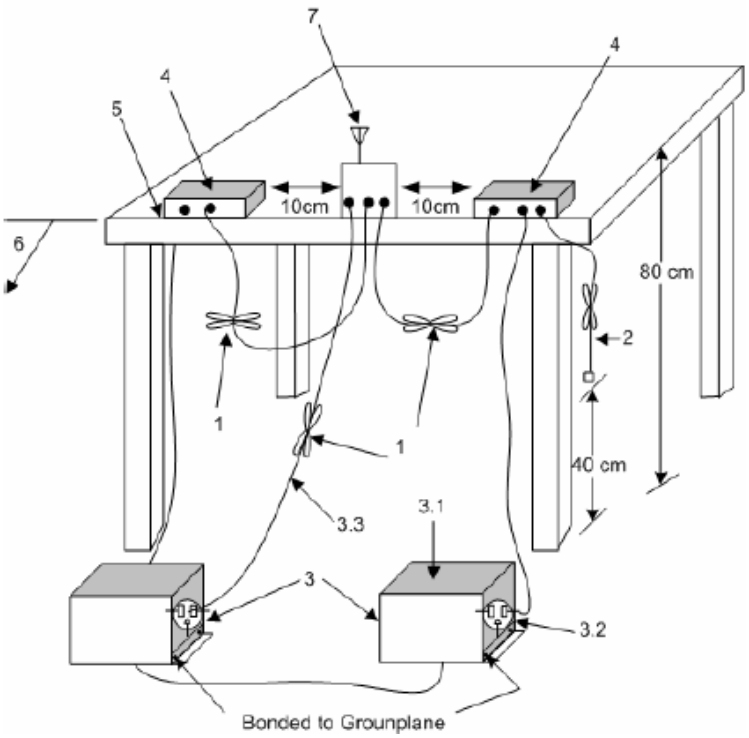
Refer a test equipment and calibration data table in this test report.

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 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.

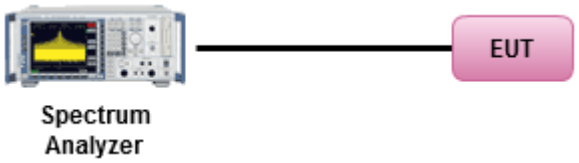
3.2.2 Measuring Instruments

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 EIRP Output Power

3.3.1 Limit

Maximum EIRP Output Power Limit	
UNII Devices	
☒	For the 5.85-5.895 GHz band:
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Client device < 30 dBm

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

Conducted Measurement (Power Meter)


3.3.5 Test Result of Maximum EIRP Output Power

Refer as Appendix C

3.4 EIRP Power Spectral Density

3.4.1 Limit

EIRP Power Spectral Density Limit	
UNII Devices	
☒ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz

3.4.2 Measuring Instruments

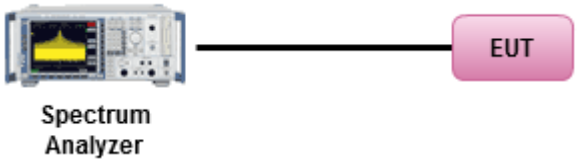
Refer a test equipment and calibration data table in this test report.

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 EIRP 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**
☒ 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
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).

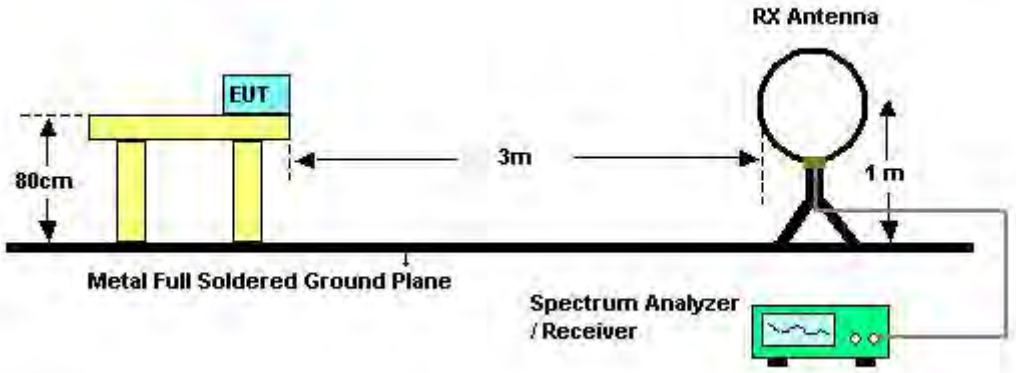
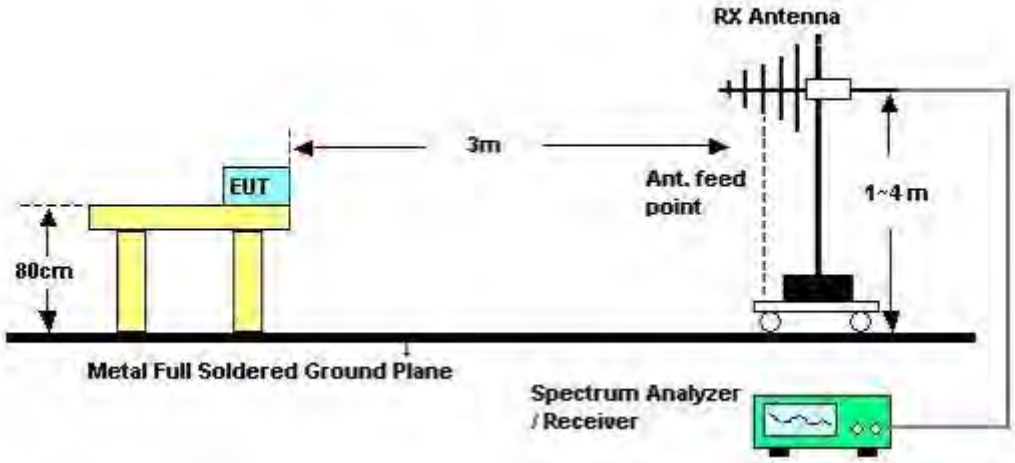
3.5.2 Measuring Instruments

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

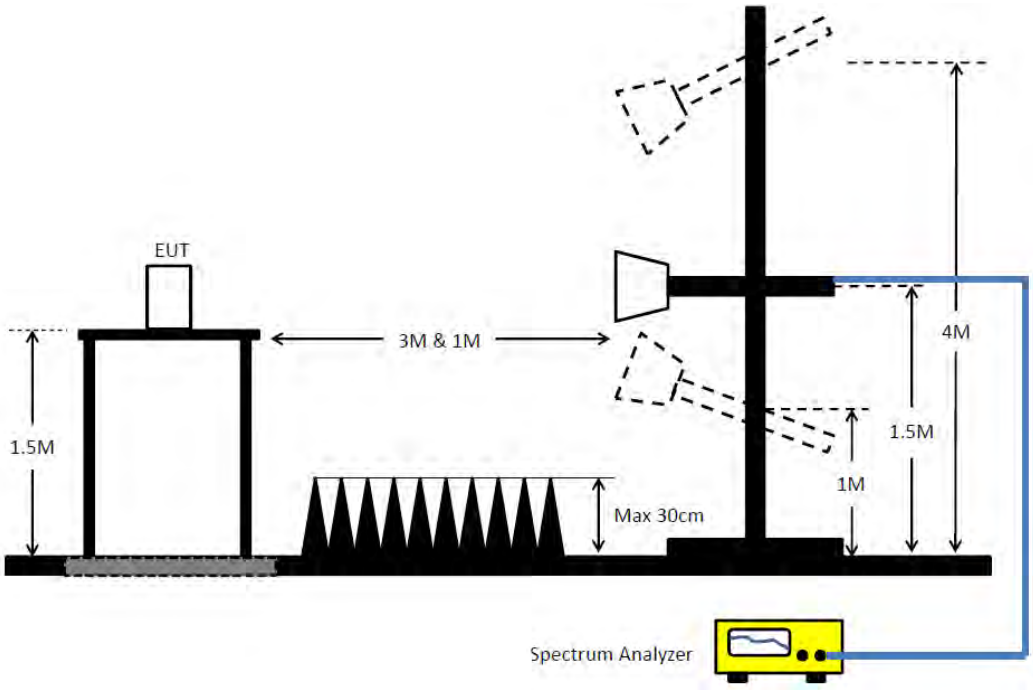
3.5.3 Test Procedures

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. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 04, 2022	Aug. 03. 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Sep. 30, 2022	Sep. 29, 2023	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 31, 2022	Jul. 30, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 09, 2022	Aug. 08, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBEAK	BBHA9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 04, 2021	Nov. 03, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+67	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBEAK	BBHA9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSP	100593	9kHz~40GHz	Apr. 08, 2022	Apr. 07, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS・Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBEAK	BBHA9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

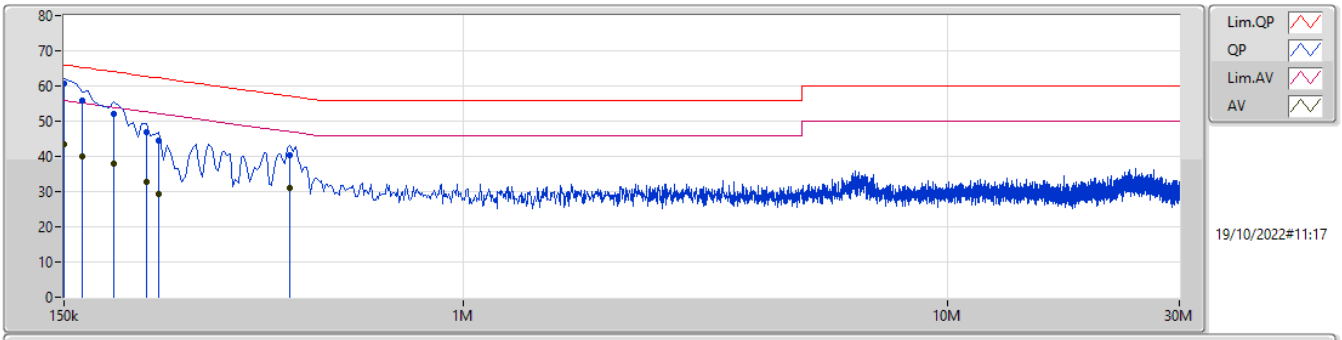
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

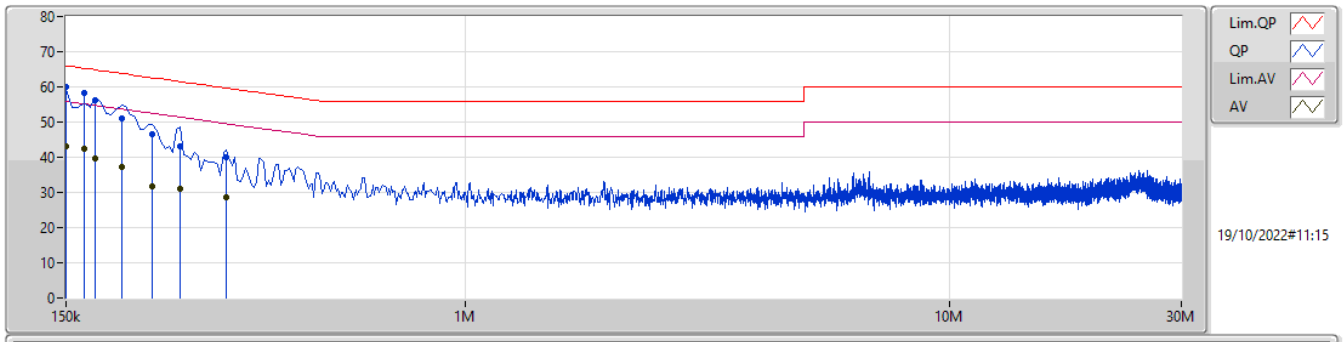
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	60.53	66.00	-5.47	Line

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	60.53	66.00	-5.47	9.99	Line	"Worst"	50.54	0.06	0.04	9.89
AV	150k	43.53	56.00	-12.47	9.99	Line	-	33.54	0.06	0.04	9.89
QP	163.5k	56.03	65.27	-9.24	9.99	Line	-	46.04	0.06	0.04	9.89
AV	163.5k	40.16	55.27	-15.11	9.99	Line	-	30.17	0.06	0.04	9.89
QP	190.5k	52.11	64.01	-11.90	9.99	Line	-	42.12	0.06	0.04	9.89
AV	190.5k	37.95	54.01	-16.06	9.99	Line	-	27.96	0.06	0.04	9.89
QP	222k	46.82	62.75	-15.93	9.99	Line	-	36.83	0.06	0.04	9.89
AV	222k	32.60	52.75	-20.15	9.99	Line	-	22.61	0.06	0.04	9.89
QP	235.5k	44.39	62.25	-17.86	9.99	Line	-	34.40	0.06	0.04	9.89
AV	235.5k	29.38	52.25	-22.87	9.99	Line	-	19.39	0.06	0.04	9.89
QP	438k	40.48	57.11	-16.63	10.01	Line	-	30.47	0.06	0.06	9.89
AV	438k	31.00	47.11	-16.11	10.01	Line	-	20.99	0.06	0.06	9.89

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	60.10	66.00	-5.90	10.00	Neutral	"Worst"	50.10	0.07	0.04	9.89
AV	150k	43.20	56.00	-12.80	10.00	Neutral	-	33.20	0.07	0.04	9.89
QP	163.5k	58.41	65.27	-6.86	10.00	Neutral	-	48.41	0.07	0.04	9.89
AV	163.5k	42.32	55.27	-12.95	10.00	Neutral	-	32.32	0.07	0.04	9.89
QP	172.5k	56.26	64.83	-8.57	10.00	Neutral	-	46.26	0.07	0.04	9.89
AV	172.5k	39.54	54.83	-15.29	10.00	Neutral	-	29.54	0.07	0.04	9.89
QP	195k	50.95	63.82	-12.87	10.00	Neutral	-	40.95	0.07	0.04	9.89
AV	195k	37.10	53.82	-16.72	10.00	Neutral	-	27.10	0.07	0.04	9.89
QP	226.5k	46.44	62.58	-16.14	10.00	Neutral	-	36.44	0.07	0.04	9.89
AV	226.5k	31.80	52.58	-20.78	10.00	Neutral	-	21.80	0.07	0.04	9.89
QP	258k	43.26	61.49	-18.23	10.01	Neutral	-	33.25	0.07	0.05	9.89
AV	258k	31.19	51.49	-20.30	10.01	Neutral	-	21.18	0.07	0.05	9.89
QP	321k	39.93	59.67	-19.74	10.01	Neutral	-	29.92	0.07	0.05	9.89
AV	321k	28.59	49.67	-21.08	10.01	Neutral	-	18.58	0.07	0.05	9.89

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.895GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	16.541M	16M5D1D	16.32M	16.465M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.14M	19.159M	19M2D1D	18.93M	19.012M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.92M	40.375M	40M4D1D	37.5M	37.848M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.52M	77.93M	77M9D1D	76.2M	77.342M
802.11ax HEW160_Nss1,(MCS0)_4TX	151.92M	155.154M	155MD1D	130.08M	154.449M

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

Result

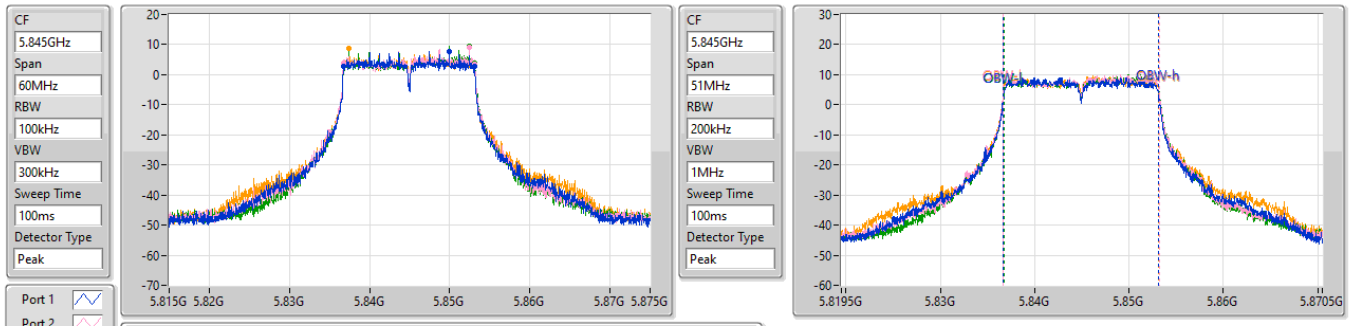
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	500k	16.32M	16.465M	16.35M	16.516M	16.32M	16.516M	16.35M	16.516M
5865MHz	Pass	500k	16.35M	16.465M	16.35M	16.49M	16.32M	16.516M	16.35M	16.516M
5885MHz	Pass	500k	16.35M	16.465M	16.32M	16.49M	16.35M	16.541M	16.32M	16.541M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	500k	19.14M	19.159M	18.99M	19.012M	18.96M	19.071M	18.96M	19.071M
5865MHz	Pass	500k	19.02M	19.159M	18.93M	19.012M	18.96M	19.071M	18.99M	19.042M
5885MHz	Pass	500k	19.02M	19.13M	18.93M	19.012M	19.02M	19.042M	19.05M	19.071M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5835MHz	Pass	500k	37.92M	37.848M	37.74M	37.848M	37.5M	37.907M	37.8M	40.375M
5875MHz	Pass	500k	37.5M	37.848M	37.74M	37.848M	37.62M	37.966M	37.92M	38.318M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5855MHz	Pass	500k	76.92M	77.342M	76.8M	77.46M	76.2M	77.342M	77.52M	77.93M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5815MHz	Pass	500k	151.92M	154.449M	146.64M	155.154M	137.52M	154.919M	130.08M	154.919M

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

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX EBW

5845MHz

31/10/2022

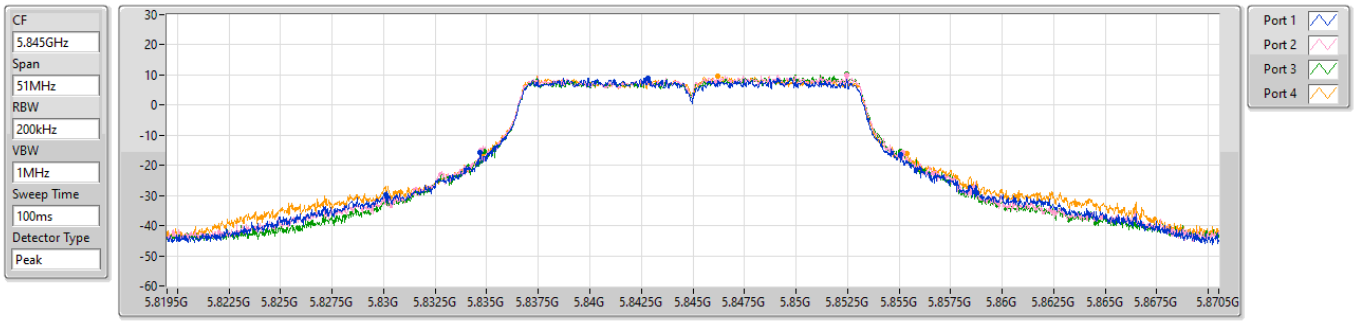


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.83678G	5.8531G	16.465M	5.836691G	5.853156G	500k	1
16.35M	5.83678G	5.85313G	16.516M	5.836691G	5.853207G	500k	2
16.32M	5.83681G	5.85313G	16.516M	5.836717G	5.853232G	500k	3
16.35M	5.83678G	5.85313G	16.516M	5.836666G	5.853181G	500k	4

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX EBW

5845MHz

31/10/2022

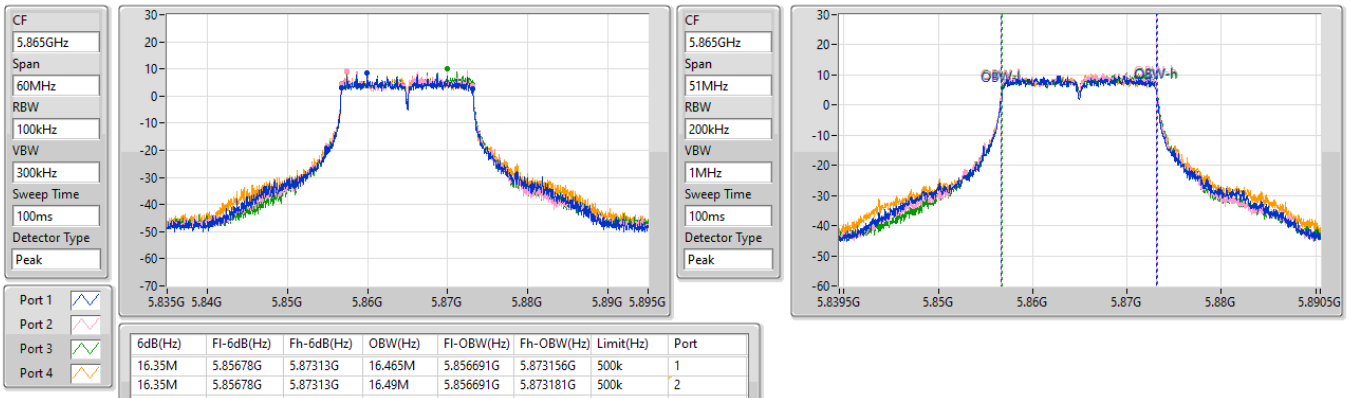


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.4M	5.834647G	5.855047G	Inf	1
20.451M	5.834724G	5.855175G	Inf	2
20.196M	5.834877G	5.855073G	Inf	3
20.579M	5.834826G	5.855404G	Inf	4

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX EBW

5865MHz

31/10/2022

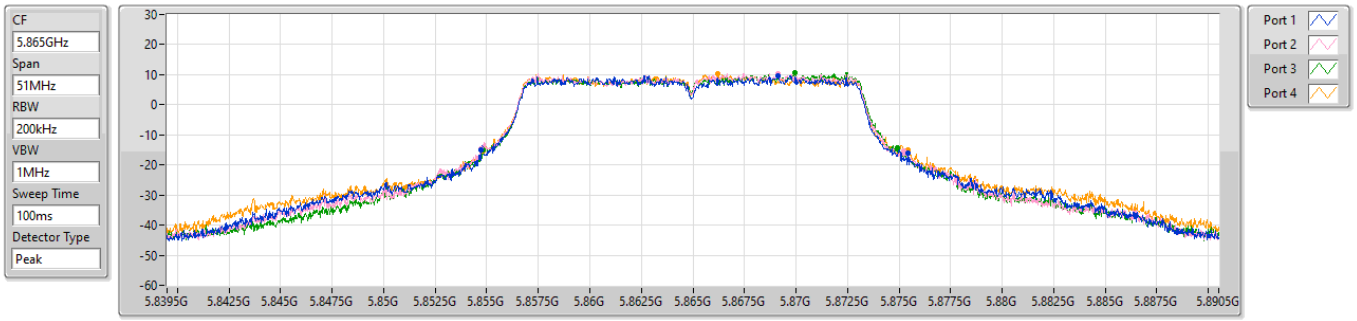


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.85678G	5.87313G	16.465M	5.856691G	5.873156G	500k	1
16.35M	5.85678G	5.87313G	16.49M	5.856691G	5.873181G	500k	2
16.32M	5.85681G	5.87313G	16.516M	5.856717G	5.873232G	500k	3
16.35M	5.85678G	5.87313G	16.516M	5.856666G	5.873181G	500k	4

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX EBW

5865MHz

31/10/2022

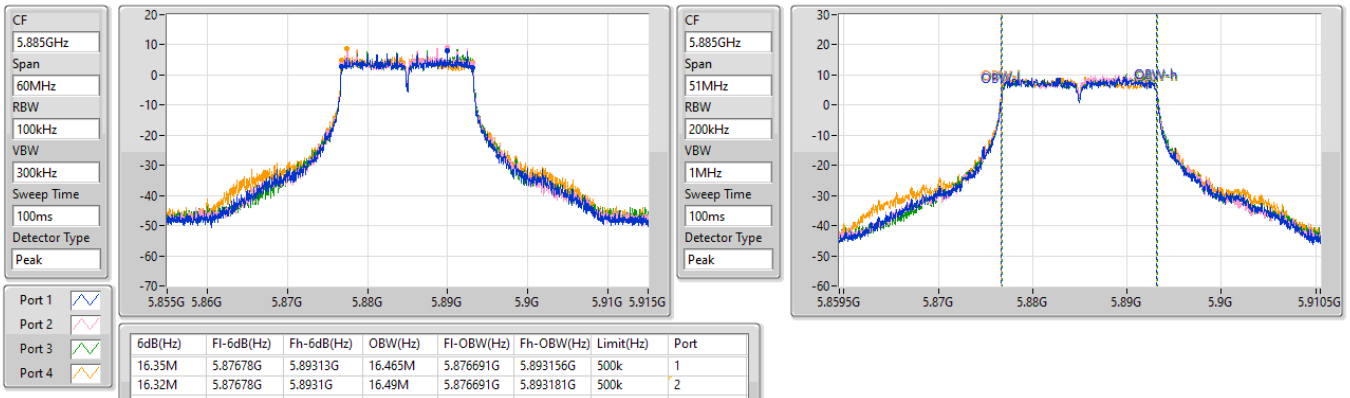


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.732M	5.854724G	5.875455G	Inf	1
20.502M	5.854698G	5.8752G	Inf	2
20.069M	5.854826G	5.874894G	Inf	3
20.63M	5.854826G	5.875455G	Inf	4

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX EBW

5885MHz

31/10/2022

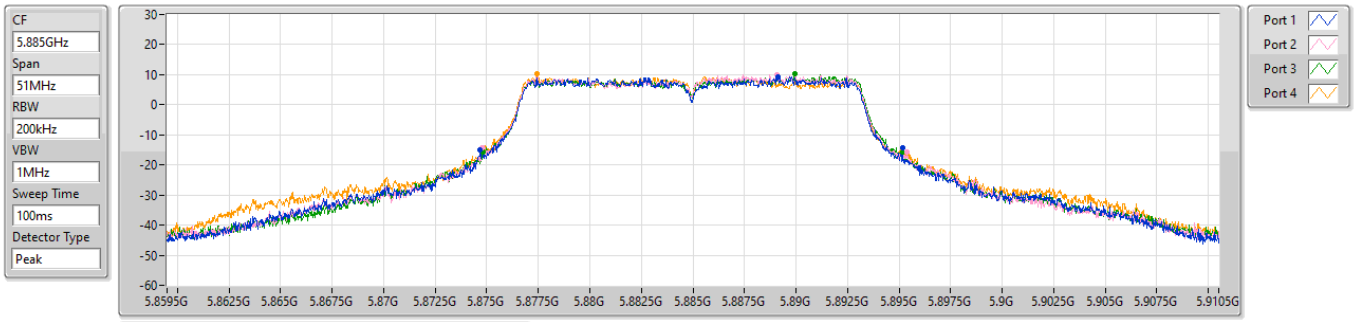


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.87678G	5.89313G	16.465M	5.876691G	5.893156G	500k	1
16.32M	5.87678G	5.8931G	16.49M	5.876691G	5.893181G	500k	2
16.35M	5.87678G	5.89313G	16.541M	5.876717G	5.893258G	500k	3
16.32M	5.87678G	5.8931G	16.541M	5.87664G	5.893181G	500k	4

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX EBW

5885MHz

31/10/2022

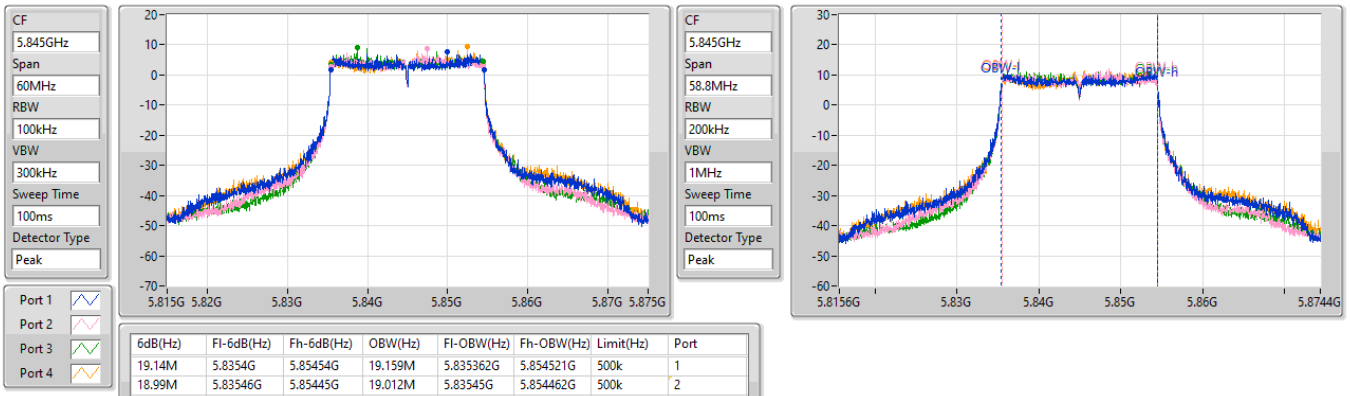


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.477M	5.874673G	5.895149G	Inf	1
20.655M	5.874749G	5.895404G	Inf	2
20.375M	5.8748G	5.895175G	Inf	3
20.579M	5.8748G	5.895379G	Inf	4

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX EBW

5845MHz

31/10/2022

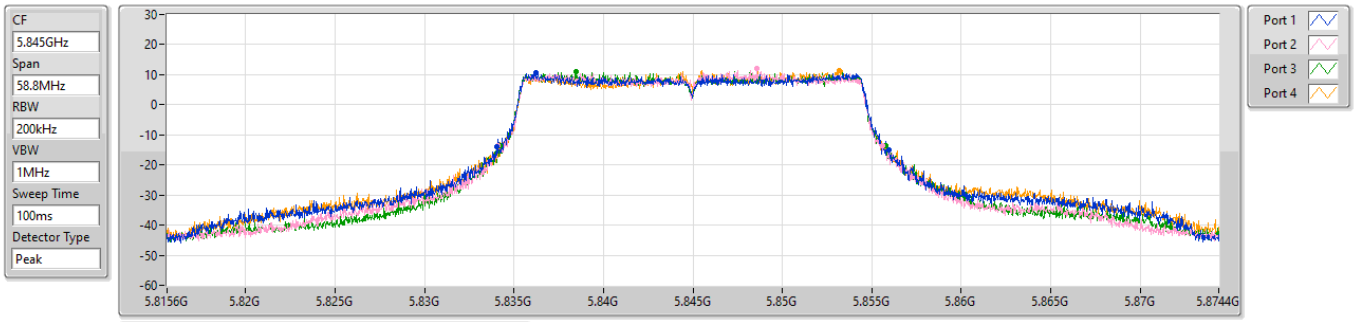


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.14M	5.8354G	5.85454G	19.159M	5.835362G	5.854521G	500k	1
18.99M	5.83546G	5.85445G	19.012M	5.83545G	5.854462G	500k	2
18.96M	5.83546G	5.85442G	19.071M	5.83542G	5.854491G	500k	3
18.96M	5.83549G	5.85445G	19.071M	5.83545G	5.854521G	500k	4

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX EBW

5845MHz

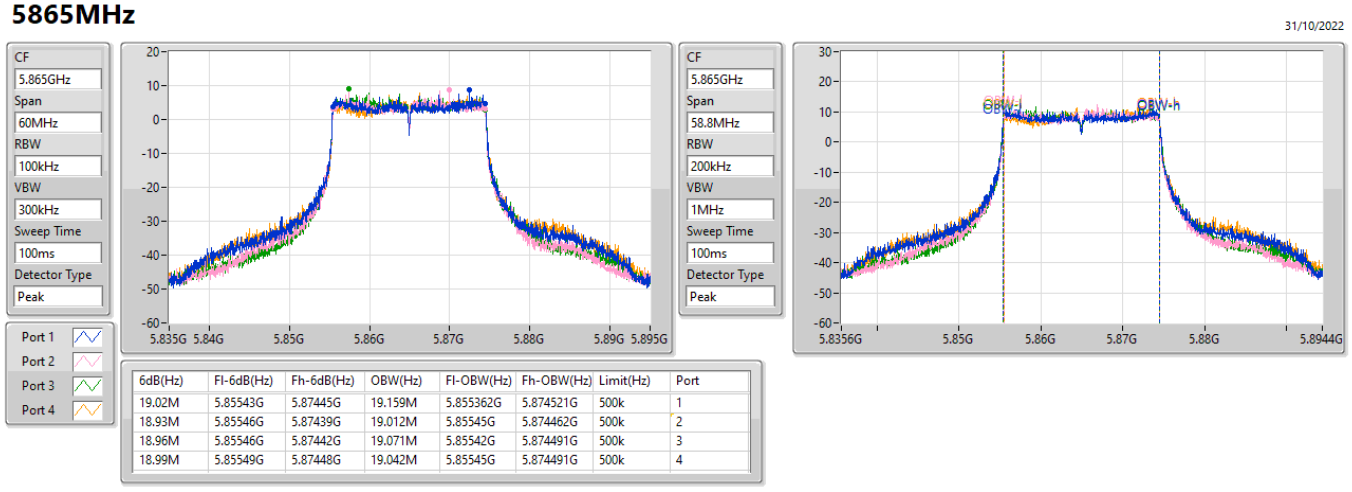
31/10/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.903M	5.834034G	5.855937G	Inf	1
21.491M	5.834093G	5.855584G	Inf	2
21.55M	5.83421G	5.85576G	Inf	3
21.609M	5.834151G	5.85576G	Inf	4

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX EBW

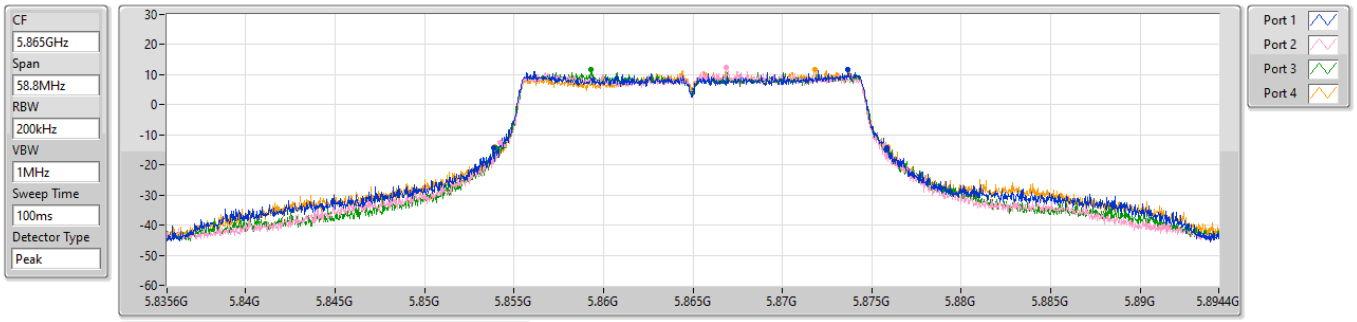
5865MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.02M	5.85543G	5.87445G	19.159M	5.855362G	5.874521G	500k	1
18.93M	5.85546G	5.87439G	19.012M	5.85545G	5.874462G	500k	2
18.96M	5.85546G	5.87442G	19.071M	5.85542G	5.874491G	500k	3
18.99M	5.85549G	5.87448G	19.042M	5.85545G	5.874491G	500k	4

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX EBW

5865MHz

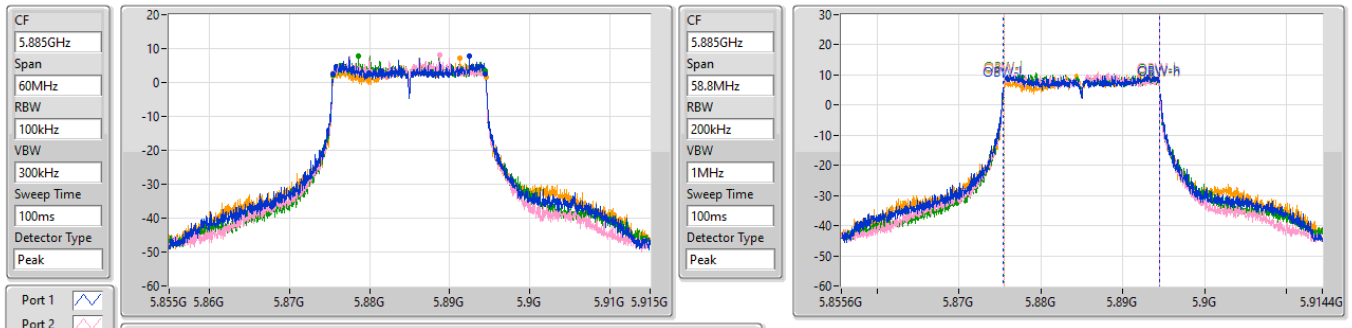


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.962M	5.853857G	5.875819G	Inf	1
21.491M	5.85421G	5.875702G	Inf	2
21.697M	5.853975G	5.875672G	Inf	3
21.962M	5.853916G	5.875878G	Inf	4

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX EBW

5885MHz

04/11/2022

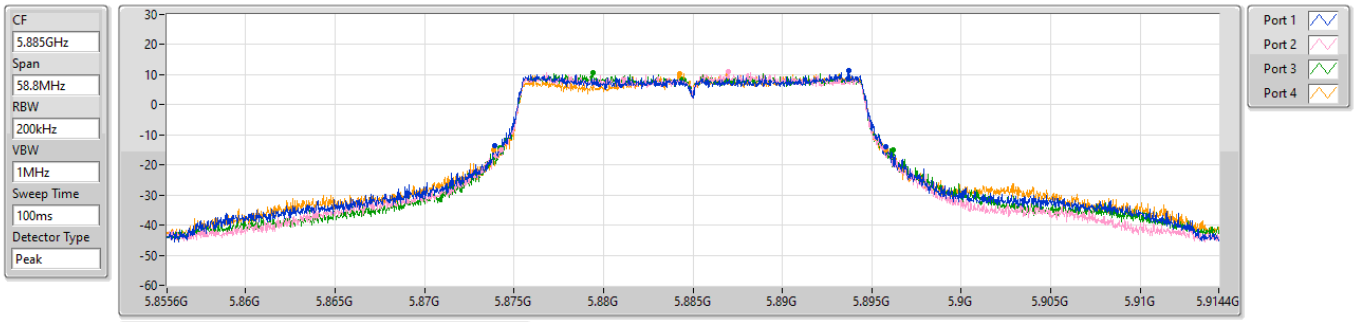


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.02M	5.87546G	5.89448G	19.13M	5.875391G	5.894521G	500k	1
18.93M	5.87549G	5.89442G	19.012M	5.87545G	5.894462G	500k	2
19.02M	5.87543G	5.89445G	19.042M	5.87545G	5.894491G	500k	3
19.05M	5.87546G	5.89451G	19.071M	5.87545G	5.894521G	500k	4

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX EBW

5885MHz

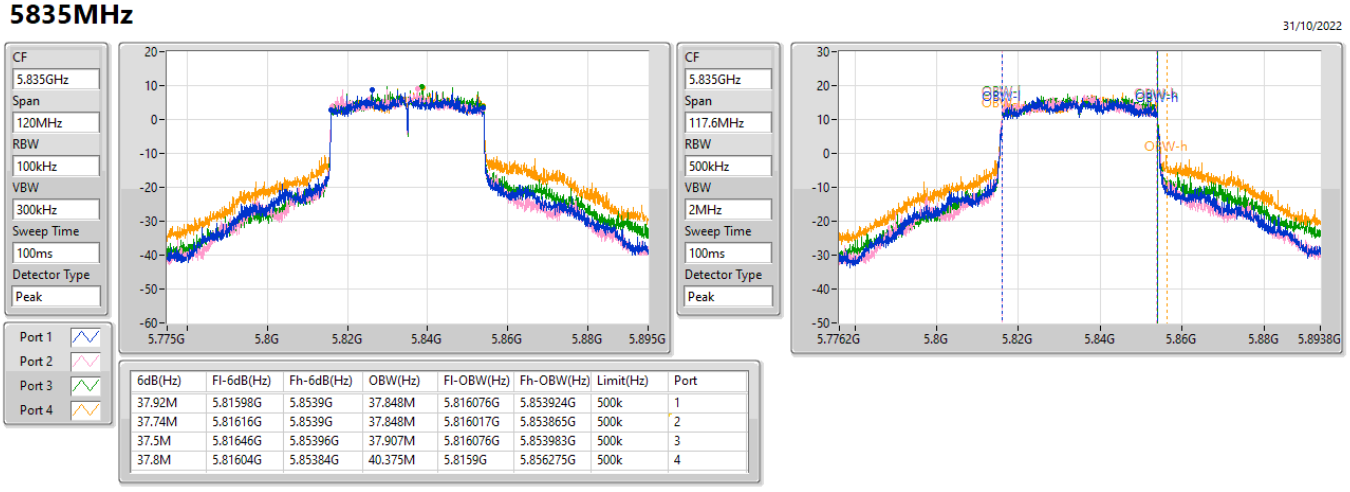
04/11/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.815M	5.873946G	5.89576G	Inf	1
21.374M	5.874298G	5.895672G	Inf	2
21.991M	5.87421G	5.896201G	Inf	3
21.932M	5.873857G	5.89579G	Inf	4

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX EBW

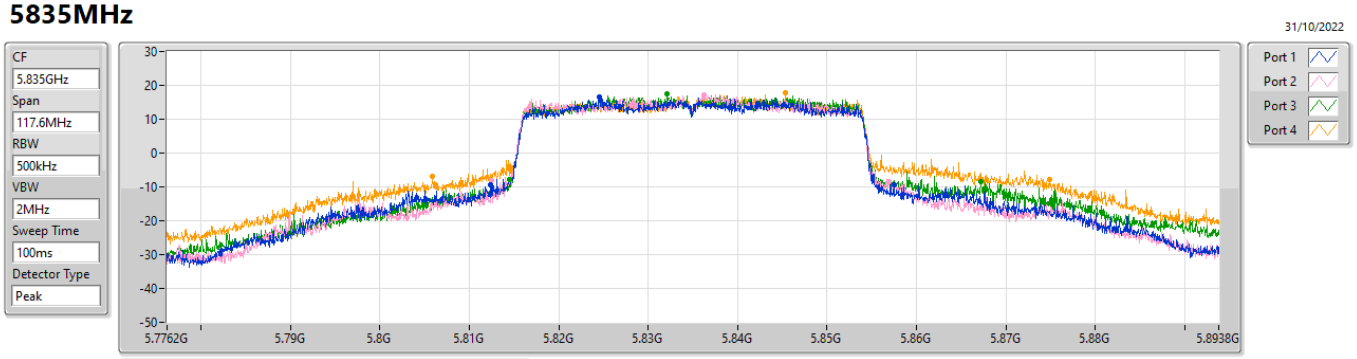
5835MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.92M	5.81598G	5.8539G	37.848M	5.816076G	5.853924G	500k	1
37.74M	5.81616G	5.8539G	37.848M	5.816017G	5.853865G	500k	2
37.5M	5.81646G	5.85396G	37.907M	5.816076G	5.853983G	500k	3
37.8M	5.81604G	5.85384G	40.375M	5.8159G	5.856275G	500k	4

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX EBW

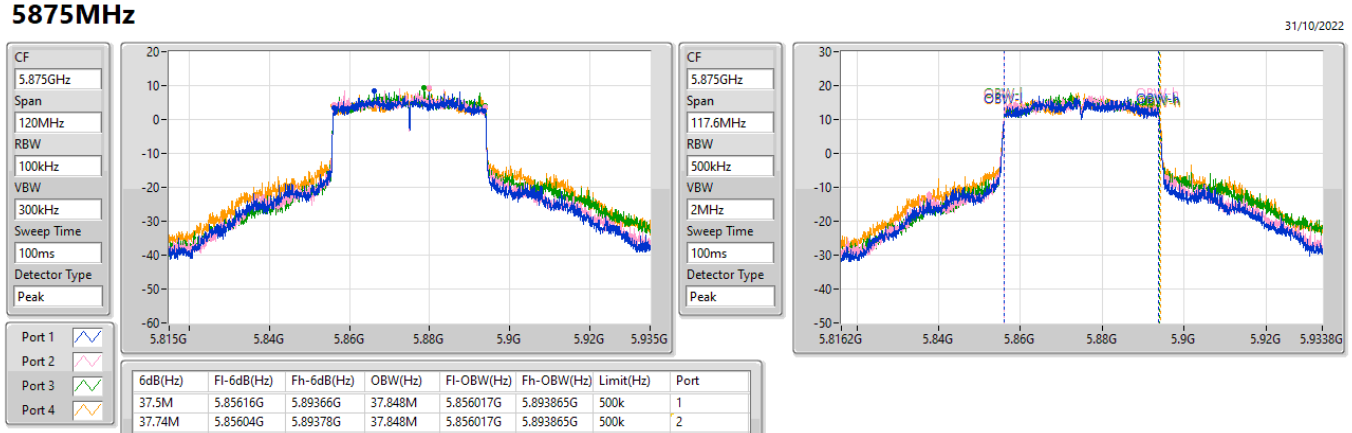
5835MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
45.1M	5.812362G	5.857462G	Inf	1
44.335M	5.812538G	5.856874G	Inf	2
52.685M	5.814479G	5.867164G	Inf	3
68.972M	5.805894G	5.874866G	Inf	4

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX EBW

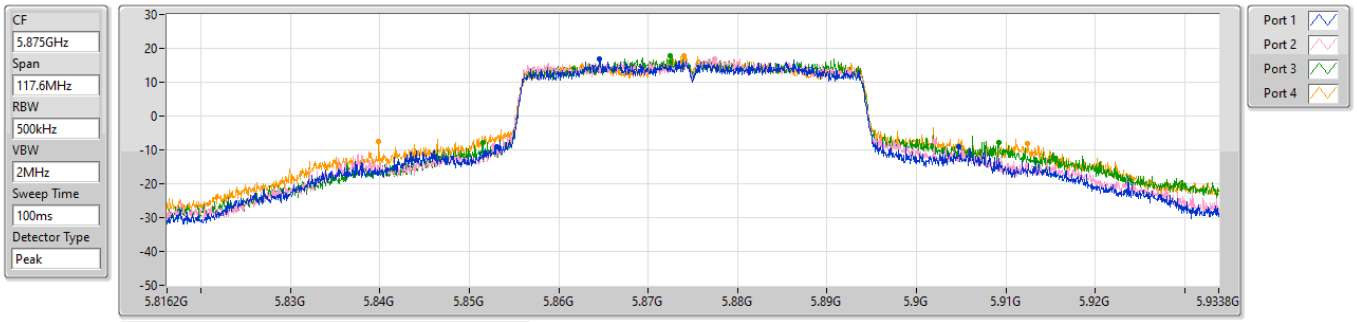
5875MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	5.85616G	5.89366G	37.848M	5.856017G	5.893865G	500k	1
37.74M	5.85604G	5.89378G	37.848M	5.856017G	5.893865G	500k	2
37.62M	5.85622G	5.89384G	37.966M	5.856076G	5.894042G	500k	3
37.92M	5.85598G	5.8939G	38.318M	5.8559G	5.894218G	500k	4

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX EBW

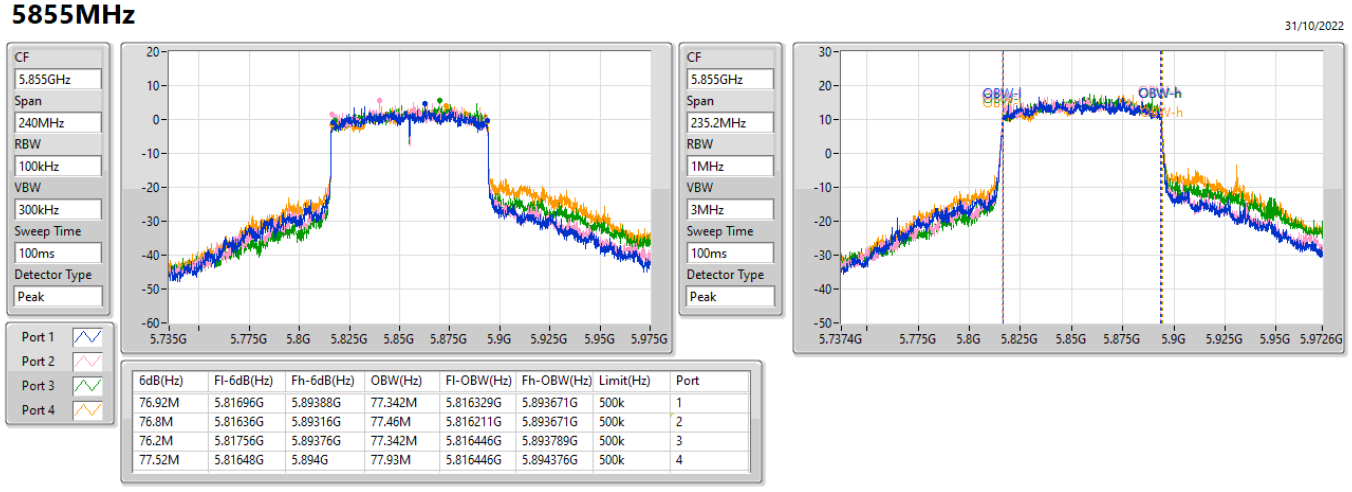
5875MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
51.685M	5.853068G	5.904753G	Inf	1
49.274M	5.852715G	5.901989G	Inf	2
57.742M	5.85148G	5.909222G	Inf	3
72.559M	5.839896G	5.912456G	Inf	4

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX EBW

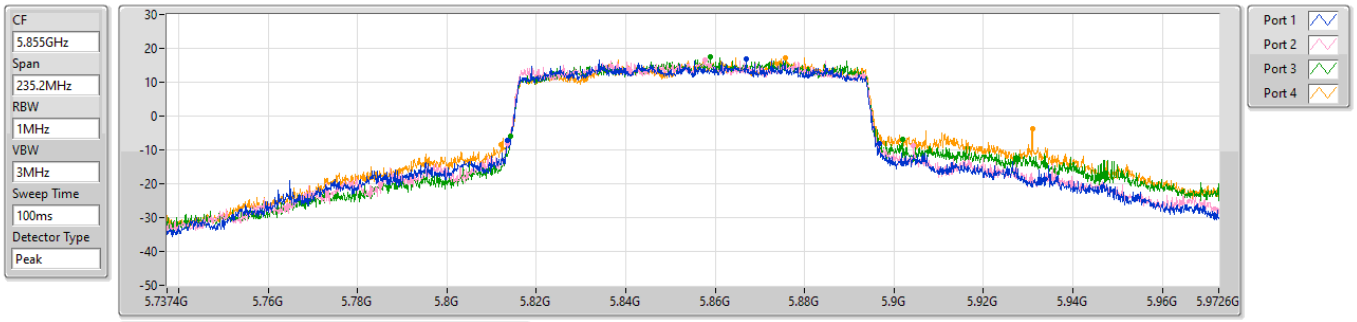
5855MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.92M	5.81696G	5.89388G	77.342M	5.816329G	5.893671G	500k	1
76.8M	5.81636G	5.89316G	77.46M	5.816211G	5.893671G	500k	2
76.2M	5.81756G	5.89376G	77.342M	5.816446G	5.893789G	500k	3
77.52M	5.81648G	5.894G	77.93M	5.816446G	5.894376G	500k	4

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX EBW

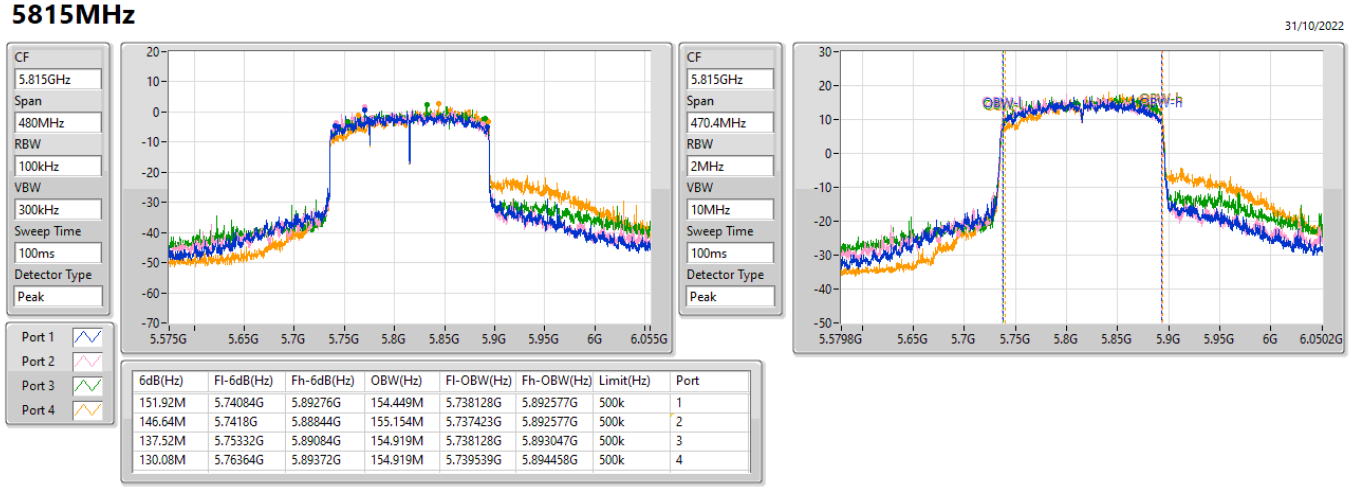
5855MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
83.143M	5.813487G	5.89663G	Inf	1
90.905M	5.813487G	5.904392G	Inf	2
87.612M	5.814193G	5.901805G	Inf	3
118.776M	5.812194G	5.93097G	Inf	4

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX EBW

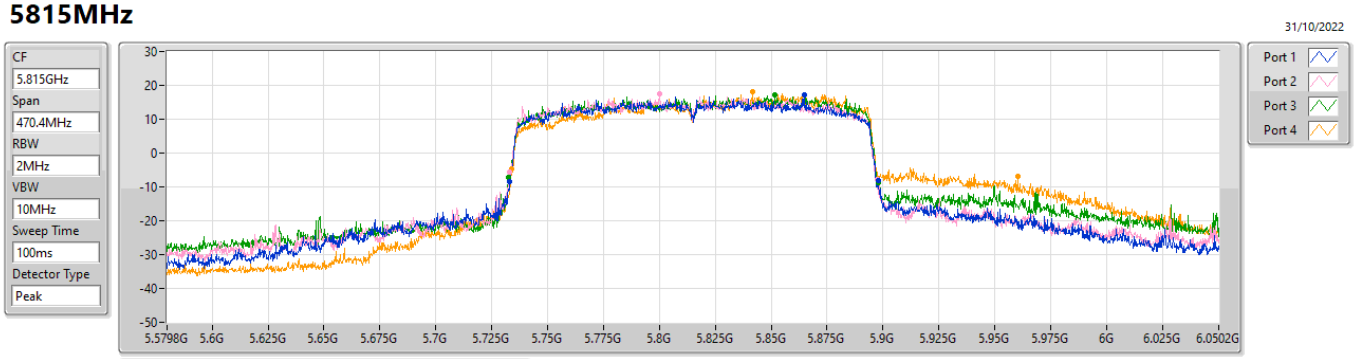
5815MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
151.92M	5.74084G	5.89276G	154.449M	5.738128G	5.892577G	500k	1
146.64M	5.7418G	5.88844G	155.154M	5.737423G	5.892577G	500k	2
137.52M	5.75332G	5.89084G	154.919M	5.738128G	5.893047G	500k	3
130.08M	5.76364G	5.89372G	154.919M	5.739539G	5.894458G	500k	4

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX EBW

5815MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
164.64M	5.73315G	5.89779G	Inf	1
164.17M	5.73315G	5.89732G	Inf	2
165.581M	5.732445G	5.898026G	Inf	3
226.498M	5.733856G	5.960354G	Inf	4

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.77	0.47534	32.24	1.67494
802.11ax HEW20_Nss1,(MCS0)_4TX	26.71	0.46881	32.18	1.65196
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.71	0.46881	33.25	2.11349
802.11ax HEW40_Nss1,(MCS0)_4TX	30.04	1.00925	35.51	3.55631
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	29.31	0.85310	35.85	3.84592
802.11ax HEW80_Nss1,(MCS0)_4TX	29.26	0.84333	34.73	2.97167
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	29.26	0.84333	35.80	3.80189
802.11ax HEW160_Nss1,(MCS0)_4TX	28.56	0.71779	34.03	2.52930
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	28.56	0.71779	35.10	3.23594

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-
5845MHz	Pass	5.47	20.29	20.90	20.83	20.93	26.77	32.24	36.00
5865MHz	Pass	5.47	19.82	20.41	20.32	20.27	26.23	31.70	36.00
5885MHz	Pass	5.47	19.94	20.36	20.43	20.38	26.30	31.77	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5845MHz	Pass	5.47	20.32	20.65	20.80	20.57	26.61	32.08	36.00
5865MHz	Pass	5.47	20.34	20.73	20.79	20.55	26.63	32.10	36.00
5885MHz	Pass	5.47	20.59	20.80	20.91	20.45	26.71	32.18	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5835MHz	Pass	5.47	23.68	23.86	24.52	23.96	30.04	35.51	36.00
5875MHz	Pass	5.47	22.95	23.25	23.60	23.33	29.31	34.78	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5855MHz	Pass	5.47	22.88	23.24	23.47	23.35	29.26	34.73	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5815MHz	Pass	5.47	22.45	22.80	21.84	22.97	28.56	34.03	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5845MHz	Pass	6.54	20.32	20.65	20.80	20.57	26.61	33.15	36.00
5865MHz	Pass	6.54	20.34	20.73	20.79	20.55	26.63	33.17	36.00
5885MHz	Pass	6.54	20.59	20.80	20.91	20.45	26.71	33.25	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5835MHz	Pass	6.54	22.85	23.27	23.60	23.31	29.29	35.83	36.00
5875MHz	Pass	6.54	22.95	23.25	23.60	23.33	29.31	35.85	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5855MHz	Pass	6.54	22.88	23.24	23.47	23.35	29.26	35.80	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5815MHz	Pass	6.54	22.45	22.80	21.84	22.97	28.56	35.10	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.895GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	13.32	19.86
802.11ax HEW20_Nss1,(MCS0)_4TX	13.20	19.74
802.11ax HEW40_Nss1,(MCS0)_4TX	13.19	19.73
802.11ax HEW80_Nss1,(MCS0)_4TX	10.18	16.72
802.11ax HEW160_Nss1,(MCS0)_4TX	7.22	13.76

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

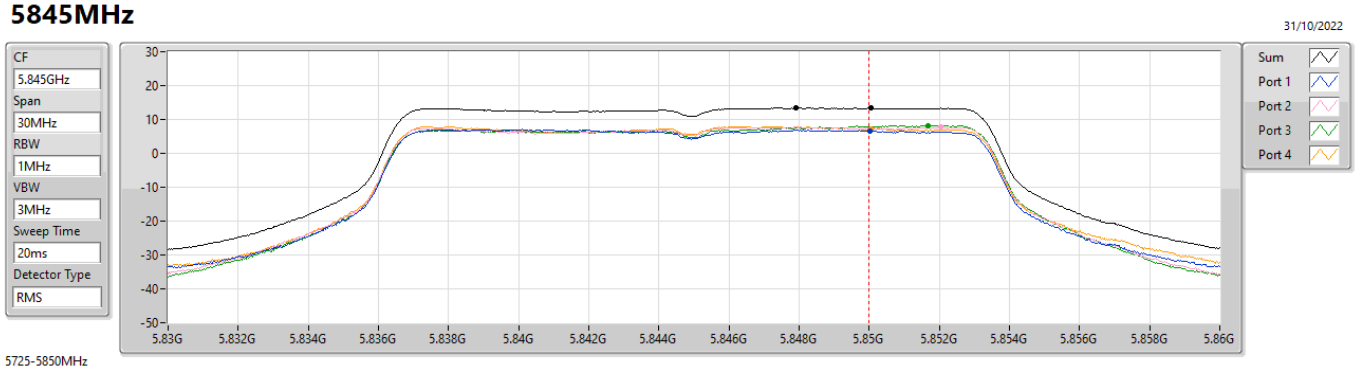
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-
5845MHz	Pass	6.54	6.71	7.80	8.26	7.34	13.32	19.86	20.00
5865MHz	Pass	6.54	6.59	7.48	7.95	7.46	13.01	19.55	20.00
5885MHz	Pass	6.54	6.78	7.72	7.91	8.01	13.03	19.57	20.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5845MHz	Pass	6.54	7.44	6.88	7.05	8.10	13.20	19.74	20.00
5865MHz	Pass	6.54	7.42	7.08	7.15	7.52	13.01	19.55	20.00
5885MHz	Pass	6.54	7.81	7.16	7.63	7.24	13.09	19.63	20.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5835MHz	Pass	6.54	4.83	5.29	6.59	6.19	11.45	17.99	20.00
5875MHz	Pass	6.54	6.73	7.67	7.38	7.86	13.19	19.73	20.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5855MHz	Pass	6.54	3.99	4.84	4.34	5.10	10.18	16.72	20.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-
5815MHz	Pass	6.54	0.12	1.25	1.23	2.39	7.22	13.76	20.00

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;

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX PSD

5845MHz



5725-5850MHz

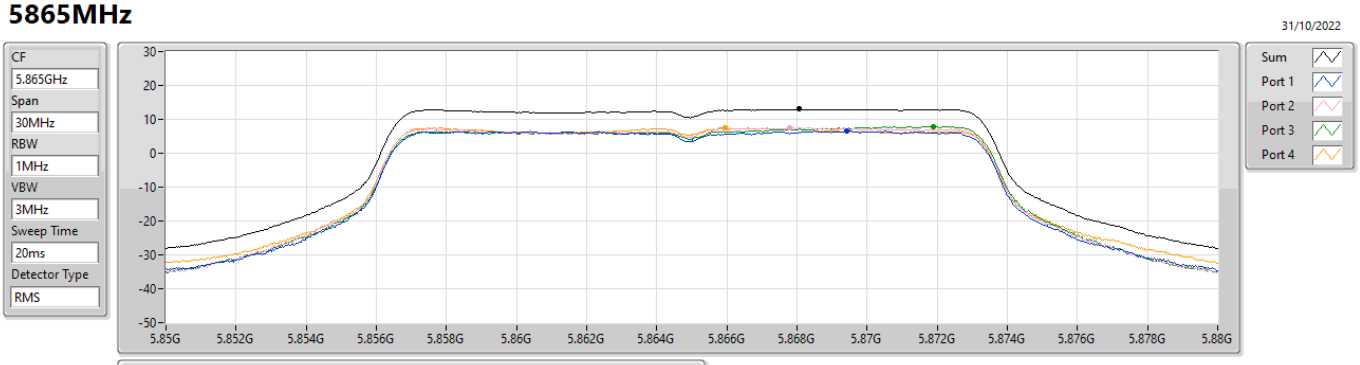
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
13.53	10.52	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.32	13.32	6.71	7.80	8.26	7.34

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX PSD

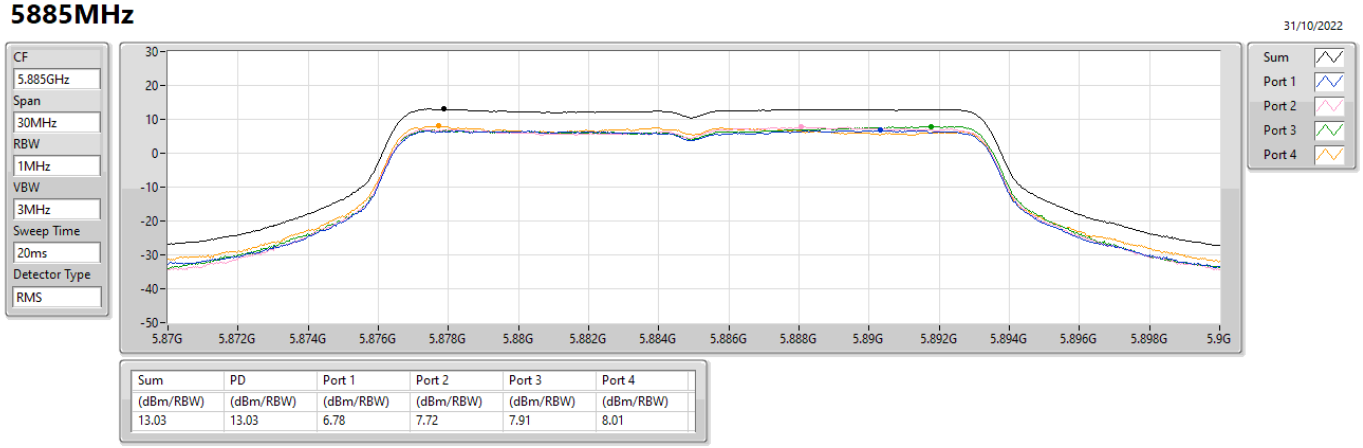
5865MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.01	13.01	6.59	7.48	7.95	7.46

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX PSD

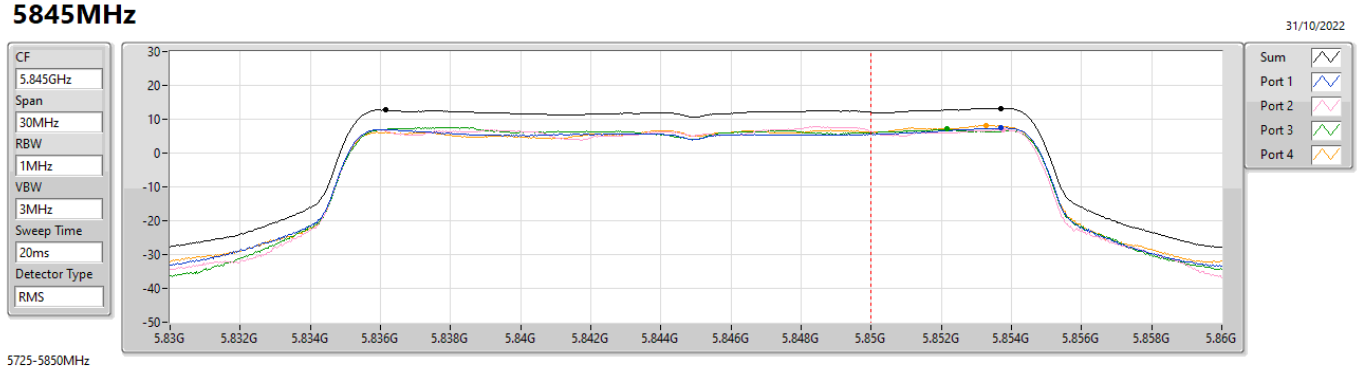
5885MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.03	13.03	6.78	7.72	7.91	8.01

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX PSD

5845MHz



5725-5850MHz

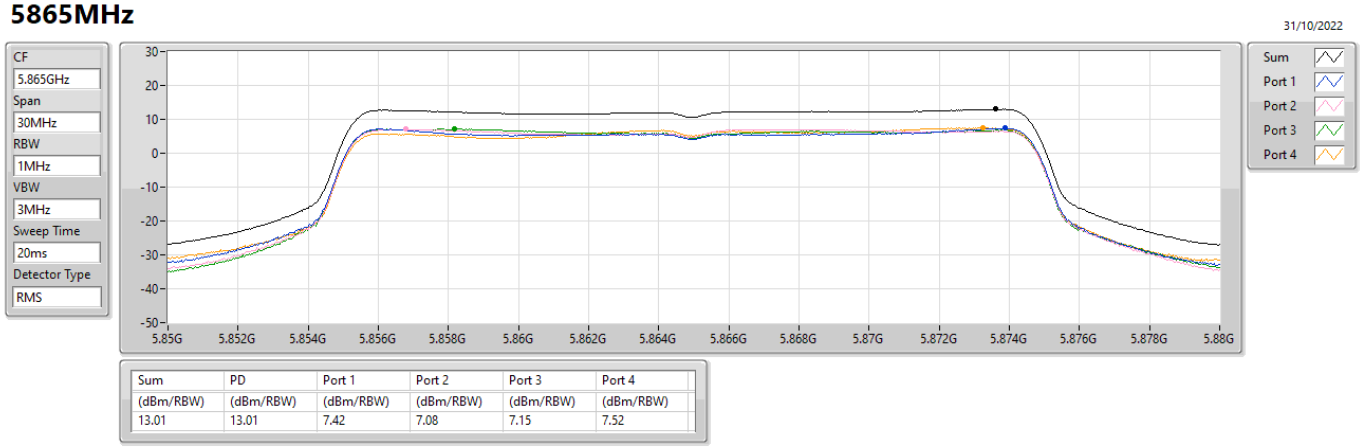
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
12.73	9.72	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.20	13.20	7.44	6.88	7.05	8.10

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX PSD

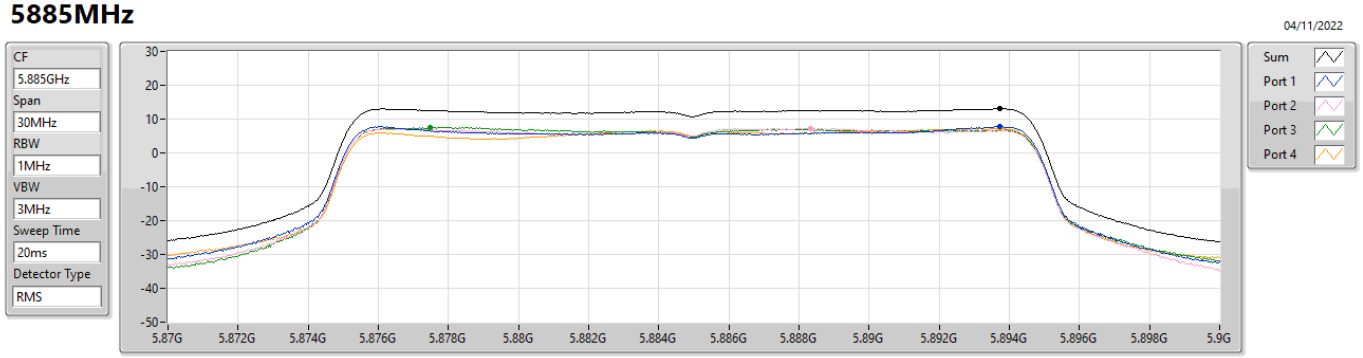
5865MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.01	13.01	7.42	7.08	7.15	7.52

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX PSD

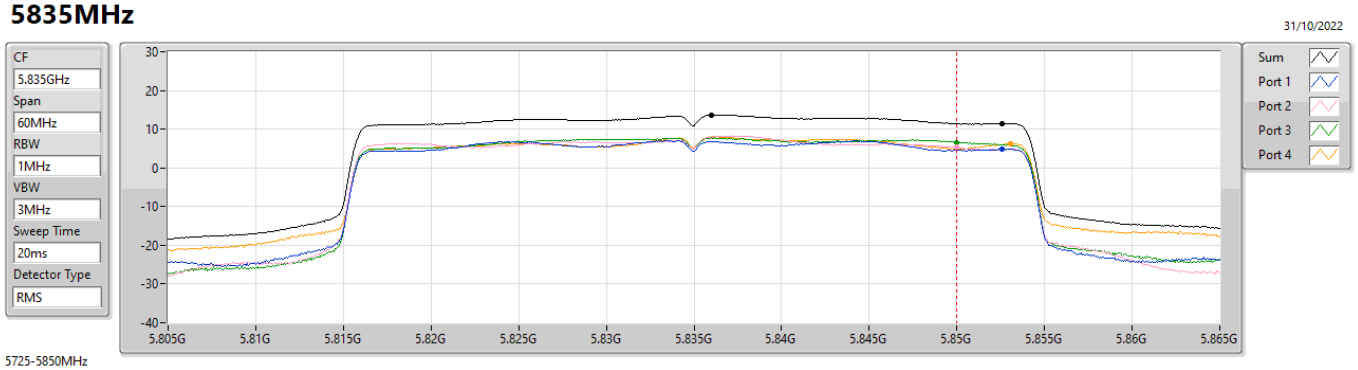
5885MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.09	13.09	7.81	7.16	7.63	7.24

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX PSD

5835MHz



5725-5850MHz

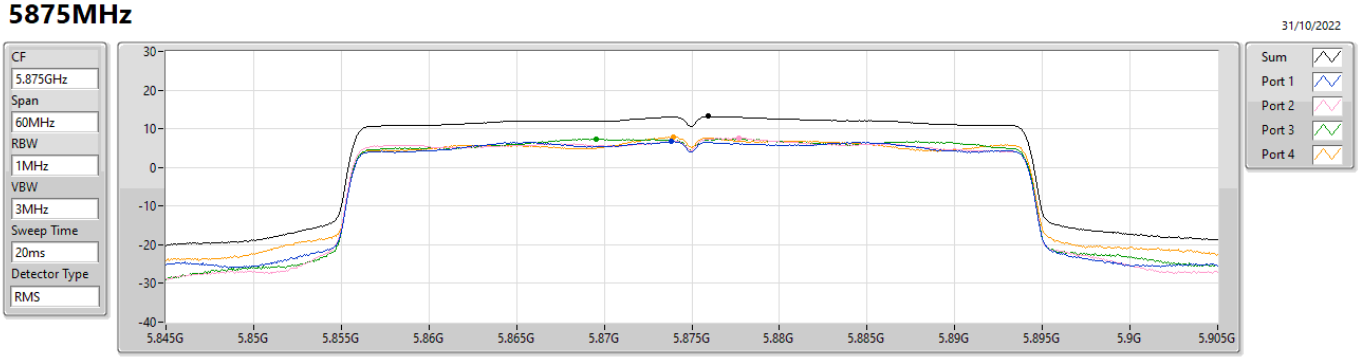
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
13.68	10.67	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.45	11.45	4.83	5.29	6.59	6.19

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX PSD

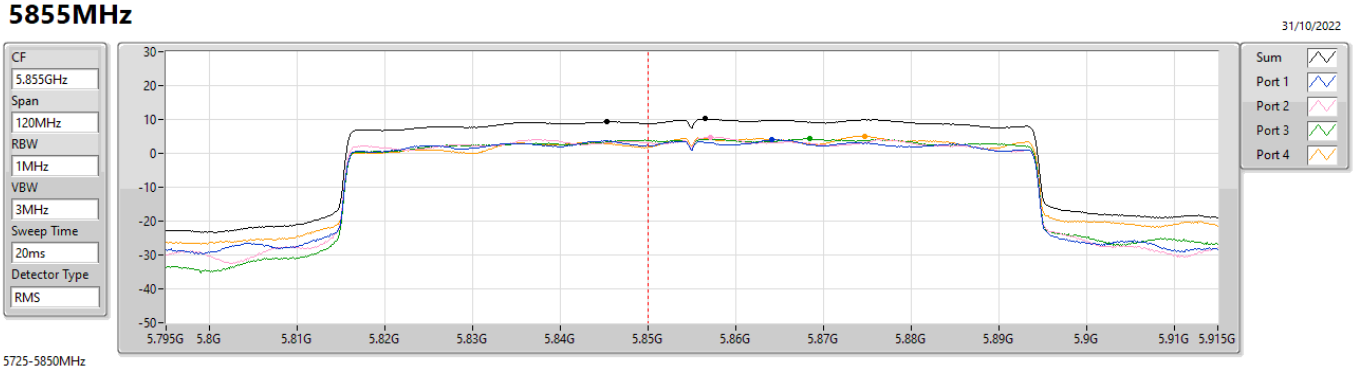
5875MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.19	13.19	6.73	7.67	7.38	7.86

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX PSD

5855MHz



5725-5850MHz

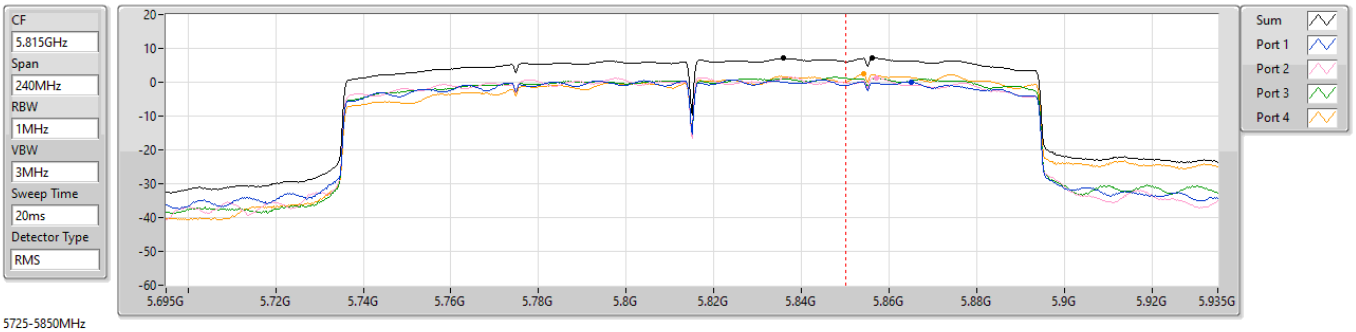
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
9.30	6.29	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.18	10.18	3.99	4.84	4.34	5.10

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX PSD

5815MHz



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
7.07	4.06	500k	-3.01

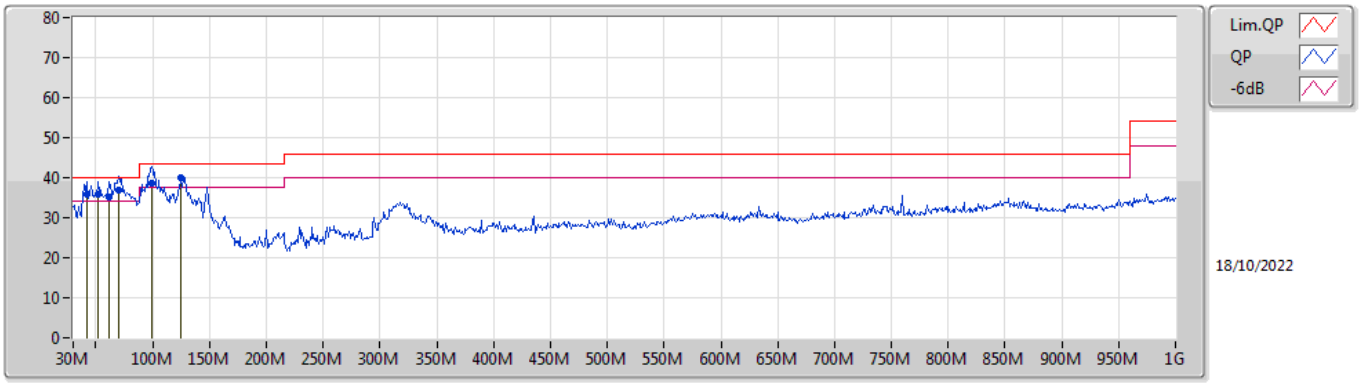
5850~5895MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.22	7.22	0.12	1.25	1.23	2.39

Summary

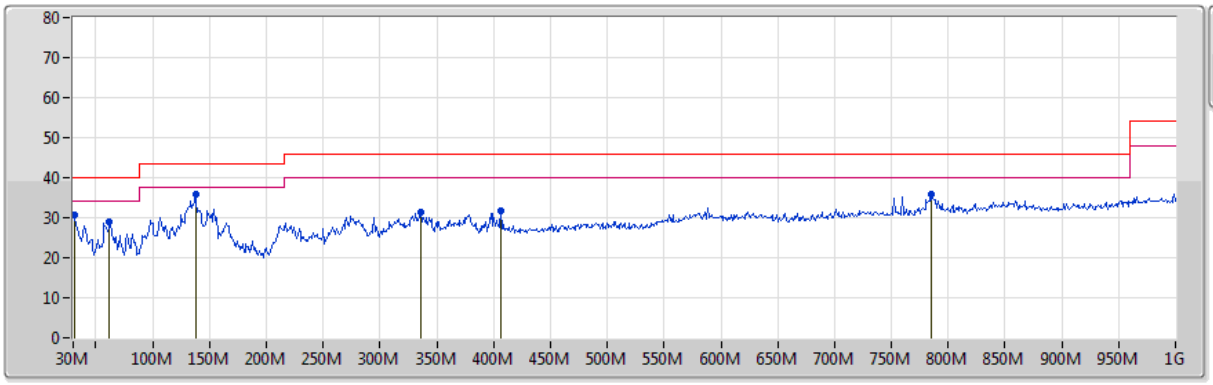
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	69.77M	36.86	40.00	-3.14	Vertical

Mode 1



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)
QP	41.64M	35.83	40.00	-4.17	-13.04	3	Vertical	265	1.00	-	48.87	18.24	1.19	32.47
QP	52.31M	36.00	40.00	-4.00	-17.68	3	Vertical	278	1.25	-	53.68	13.46	1.35	32.49
QP	62.01M	35.06	40.00	-4.94	-18.55	3	Vertical	141	1.50	-	53.61	12.40	1.50	32.45
QP	69.77M	36.86	40.00	-3.14	-18.52	3	Vertical	82	1.00	"Worst"	55.38	12.36	1.55	32.43
QP	98.87M	38.63	43.50	-4.87	-14.01	3	Vertical	313	1.25	-	52.64	16.45	1.88	32.34
PK	125.06M	40.03	43.50	-3.47	-12.26	3	Vertical	238	1.00	-	52.29	18.05	2.10	32.41

Mode 1



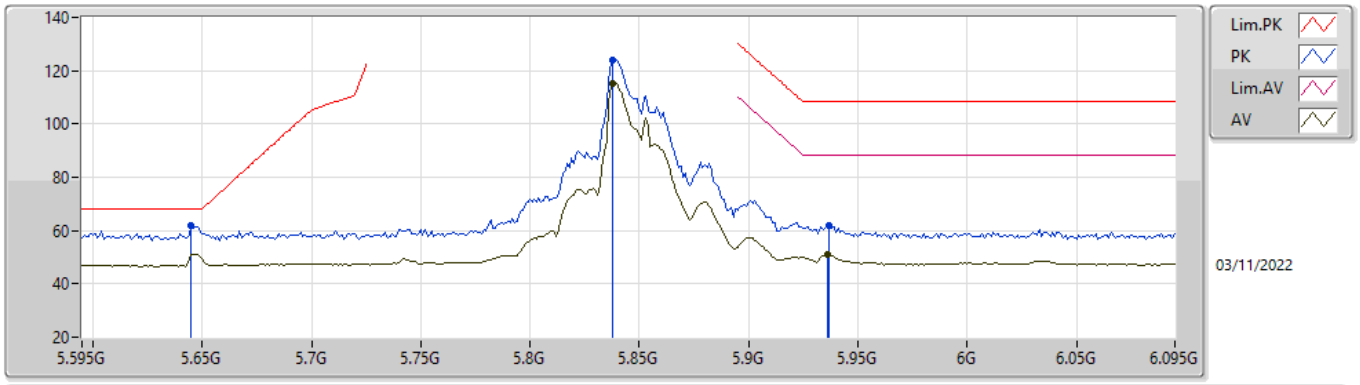
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30.97M	30.83	40.00	-9.17	-7.38	3	Horizontal	110	3.00	-	38.21	24.02	1.03	32.43
PK	62.01M	28.92	40.00	-11.08	-18.55	3	Horizontal	70	3.00	-	47.47	12.40	1.50	32.45
PK	137.67M	35.82	43.50	-7.68	-12.93	3	Horizontal	101	1.50	"Worst"	48.75	17.30	2.21	32.44
PK	336.52M	31.52	46.00	-14.48	-8.98	3	Horizontal	291	1.25	-	40.50	19.67	3.57	32.22
PK	406.36M	31.88	46.00	-14.12	-6.55	3	Horizontal	229	1.25	-	38.43	21.83	3.94	32.32
PK	784.66M	35.89	46.00	-10.11	-0.54	3	Horizontal	78	1.25	-	36.43	25.94	5.55	32.03

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	11.7643G	53.90	54.00	-0.10	3	Horizontal	31	1.38	-

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

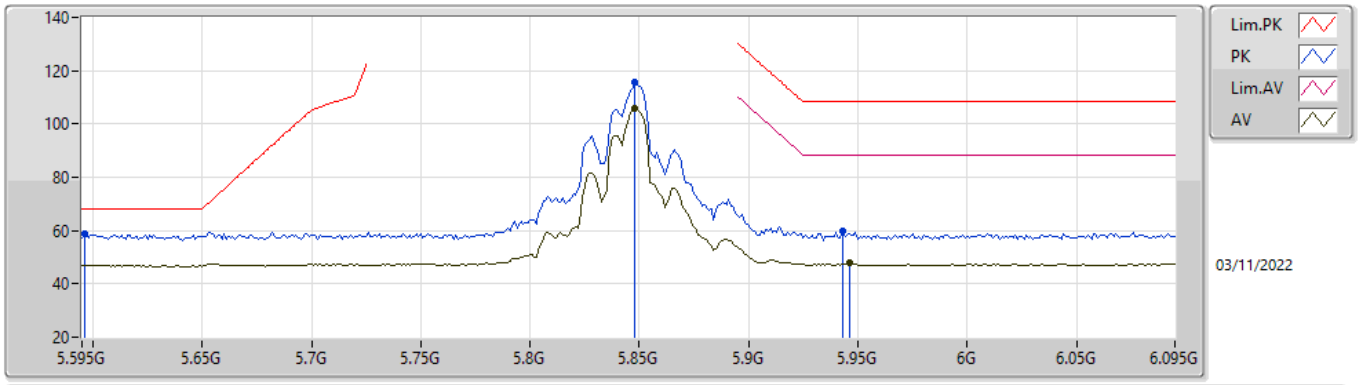


EUT Y_4TX
Setting 26.5
02-F-G-4-10

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	5.645G	61.65	68.20	-6.55	52.57	3	Vertical	68	2.28	-	33.81	6.10	30.83
PK	5.838G	124.10	Inf	-Inf	115.15	3	Vertical	68	2.28	-	33.80	6.13	30.98
AV	5.838G	115.20	Inf	-Inf	106.25	3	Vertical	68	2.28	-	33.80	6.13	30.98
PK	5.937G	61.81	108.20	-46.39	52.46	3	Vertical	68	2.28	-	34.17	6.23	31.05
RMS	5.936G	51.07	88.20	-37.13	41.72	3	Vertical	68	2.28	-	34.17	6.23	31.05

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

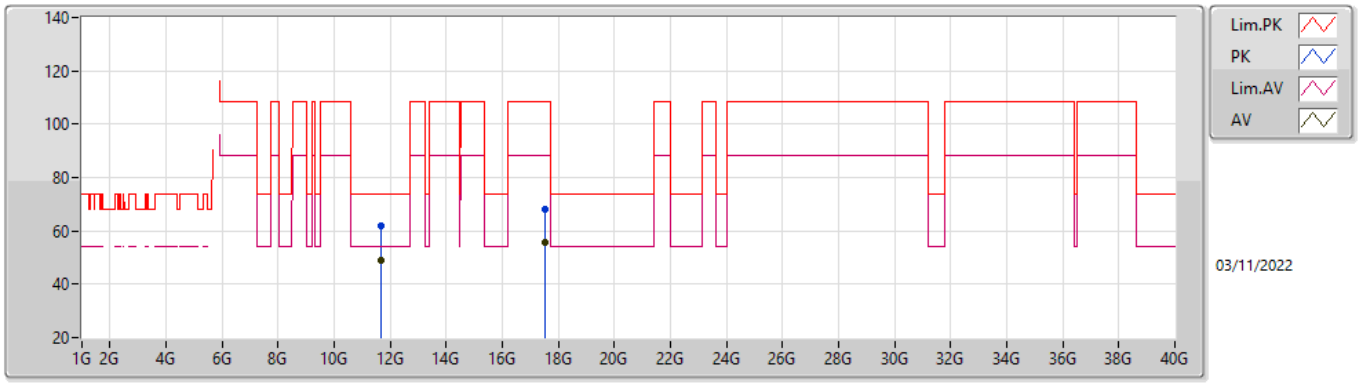


EUT Y_4TX
Setting 26.5
02-F-G-4-10

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	5.596G	58.91	68.20	-9.29	49.69	3	Horizontal	354	2.28	-	33.91	6.10	30.79
PK	5.848G	115.44	Inf	-Inf	106.48	3	Horizontal	354	2.28	-	33.80	6.14	30.98
AV	5.848G	105.75	Inf	-Inf	96.79	3	Horizontal	354	2.28	-	33.80	6.14	30.98
PK	5.943G	59.98	108.20	-48.22	50.61	3	Horizontal	354	2.28	-	34.19	6.24	31.06
RMS	5.946G	47.81	88.20	-40.39	38.44	3	Horizontal	354	2.28	-	34.19	6.24	31.06

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

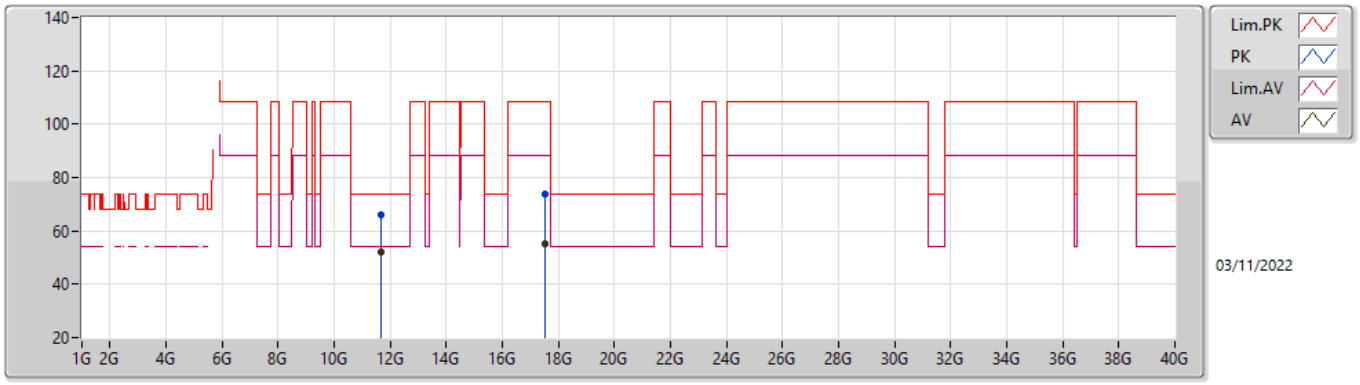


EUT Y_4TX
Setting 26.5
02-F-G-4

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	11.69198G	61.77	74.00	-12.23	45.63	3	Vertical	61	1.97	-	39.48	8.89	32.23
AV	11.68982G	49.02	54.00	-4.98	32.88	3	Vertical	61	1.97	-	39.48	8.89	32.23
PK	17.53758G	68.16	108.20	-40.04	42.93	3	Vertical	99	2.96	-	44.28	11.04	30.09
RMS	17.5325G	55.92	88.20	-34.28	28.76	3	Vertical	99	2.96	-	44.22	11.04	30.10

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

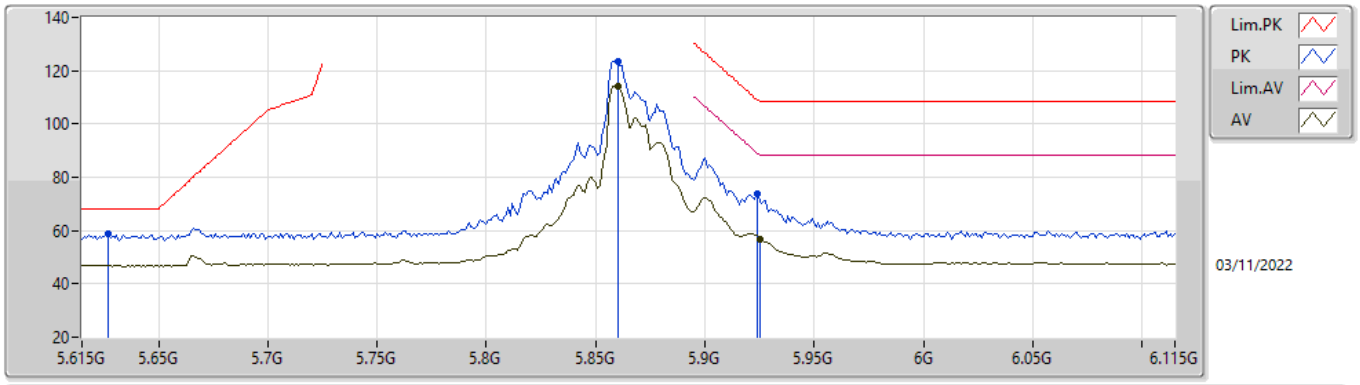


EUT Y_4TX
Setting 26.5
02-F-G-4

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	11.696G	65.89	74.00	-8.11	49.74	3	Horizontal	34	1.59	-	39.49	8.89	32.23
AV	11.69576G	52.05	54.00	-1.95	35.90	3	Horizontal	34	1.59	-	39.49	8.89	32.23
PK	17.53734G	73.75	108.20	-34.45	48.53	3	Horizontal	339	1.92	-	44.27	11.04	30.09
RMS	17.5325G	55.15	88.20	-33.05	29.99	3	Horizontal	339	1.92	-	44.22	11.04	30.10

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

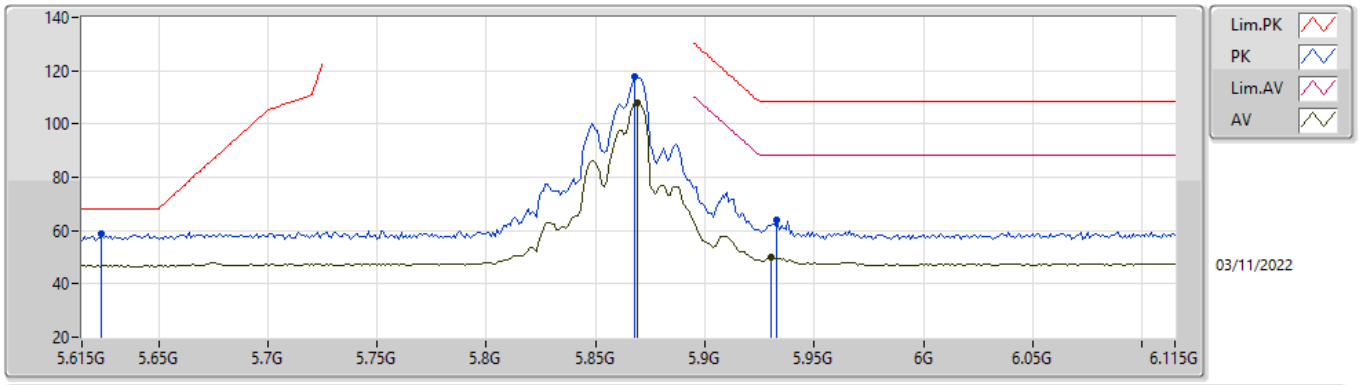


EUT Y_4TX
Setting 27
02-F-G-4-10

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	5.627G	58.54	68.20	-9.66	49.41	3	Vertical	66	1.24	-	33.85	6.10	30.82
PK	5.86G	123.63	Inf	-Inf	114.61	3	Vertical	66	1.24	-	33.86	6.15	30.99
AV	5.86G	114.21	Inf	-Inf	105.19	3	Vertical	66	1.24	-	33.86	6.15	30.99
PK	5.924G	73.92	108.93	-35.01	64.59	3	Vertical	66	1.24	-	34.15	6.22	31.04
RMS	5.925G	56.82	88.20	-31.38	47.49	3	Vertical	66	1.24	-	34.15	6.22	31.04

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

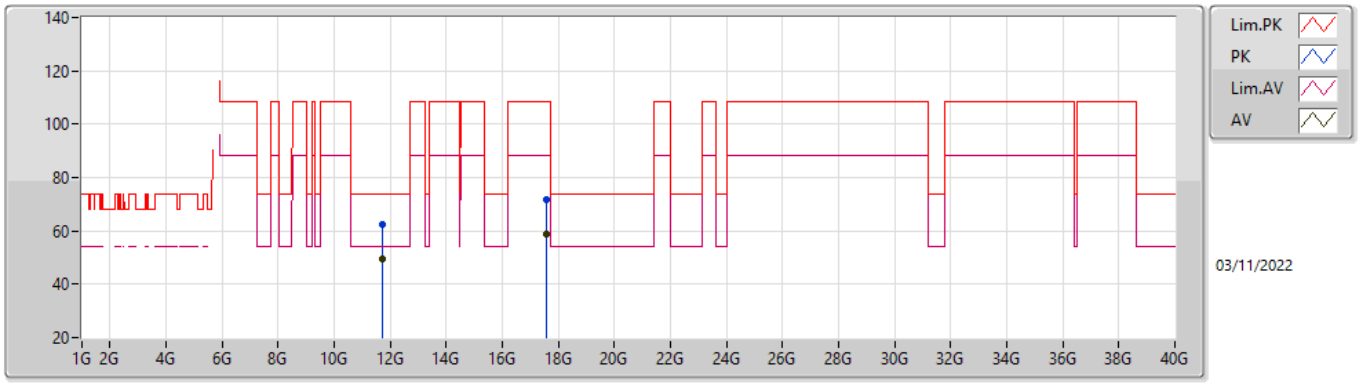


EUT Y_4TX
Setting 27
02-F-G-4-10

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	5.624G	58.89	68.20	-9.31	49.75	3	Horizontal	357	2.46	-	33.85	6.10	30.81
PK	5.868G	117.81	Inf	-Inf	108.74	3	Horizontal	357	2.46	-	33.91	6.16	31.00
AV	5.869G	108.11	Inf	-Inf	99.04	3	Horizontal	357	2.46	-	33.91	6.16	31.00
PK	5.933G	63.73	108.20	-44.47	54.38	3	Horizontal	357	2.46	-	34.17	6.23	31.05
RMS	5.93G	49.84	88.20	-38.36	40.50	3	Horizontal	357	2.46	-	34.16	6.23	31.05

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

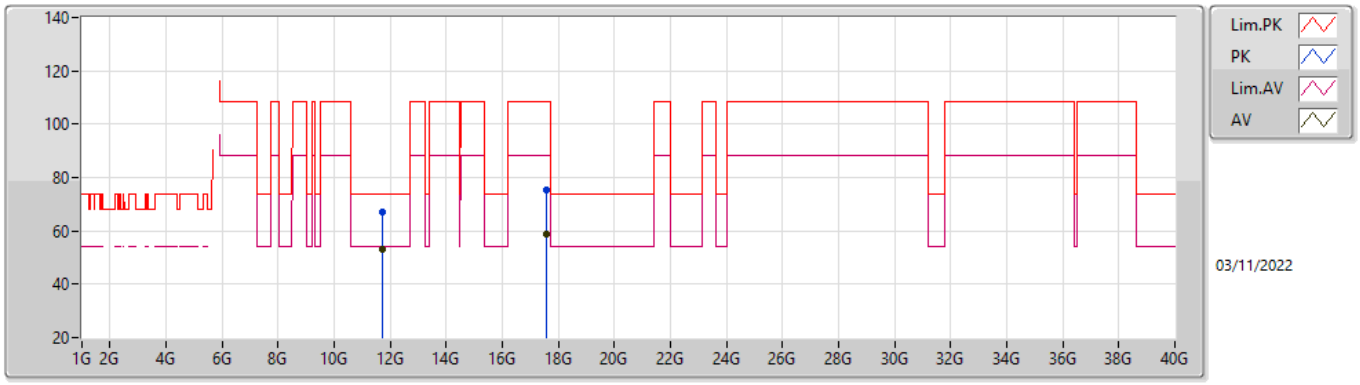


EUT Y_4TX
Setting 27
02-F-G-4

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	11.73174G	62.51	74.00	-11.49	46.35	3	Vertical	53	2.68	-	39.50	8.91	32.25
AV	11.73228G	49.48	54.00	-4.52	33.32	3	Vertical	53	2.68	-	39.50	8.91	32.25
PK	17.5854G	71.64	108.20	-36.56	45.77	3	Vertical	87	2.86	-	44.75	11.05	29.93
RMS	17.5925G	58.77	88.20	-29.43	32.79	3	Vertical	87	2.86	-	44.83	11.06	29.91

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

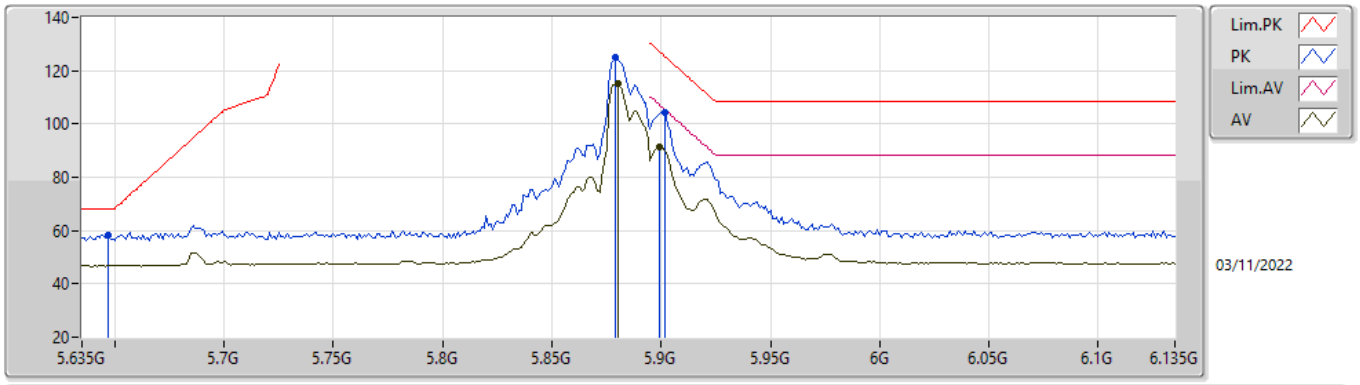


EUT Y_4TX
Setting 27
02-F-G-4

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	11.73594G	66.99	74.00	-7.01	50.84	3	Horizontal	35	1.37	-	39.50	8.91	32.26
AV	11.73606G	53.17	54.00	-0.83	37.02	3	Horizontal	35	1.37	-	39.50	8.91	32.26
PK	17.5884G	75.44	108.20	-32.76	49.52	3	Horizontal	24	1.90	-	44.78	11.06	29.92
RMS	17.5925G	58.58	88.20	-29.62	32.60	3	Horizontal	24	1.90	-	44.83	11.06	29.91

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

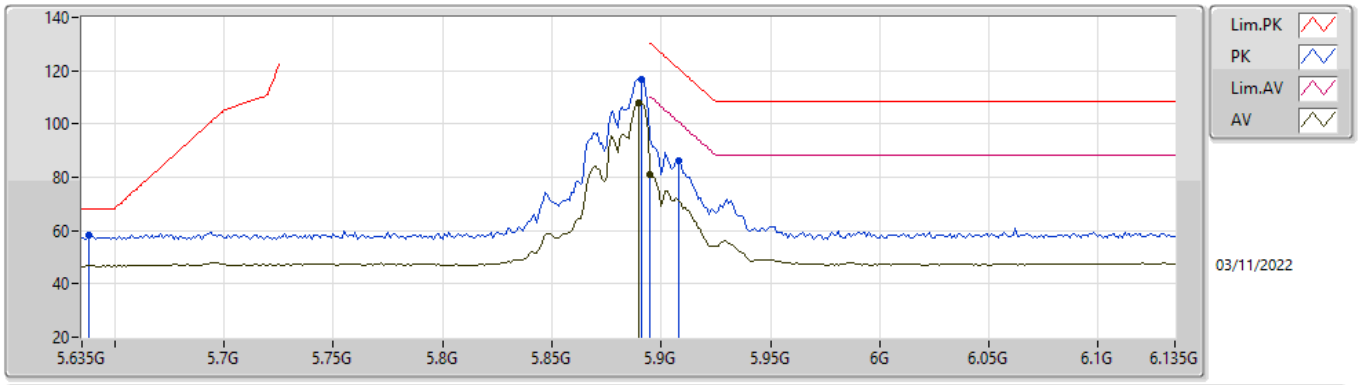


EUT Y_4TX
Setting 27
02-F-G-4-10

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	5.647G	58.13	68.20	-10.07	49.05	3	Vertical	64	1.07	-	33.81	6.10	30.83
PK	5.879G	125.25	Inf	-Inf	116.12	3	Vertical	64	1.07	-	33.97	6.17	31.01
AV	5.88G	115.13	Inf	-Inf	105.99	3	Vertical	64	1.07	-	33.98	6.17	31.01
PK	5.902G	104.52	125.07	-20.55	95.25	3	Vertical	64	1.07	-	34.10	6.20	31.03
RMS	5.899G	91.57	107.27	-15.70	82.31	3	Vertical	64	1.07	-	34.09	6.19	31.02

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

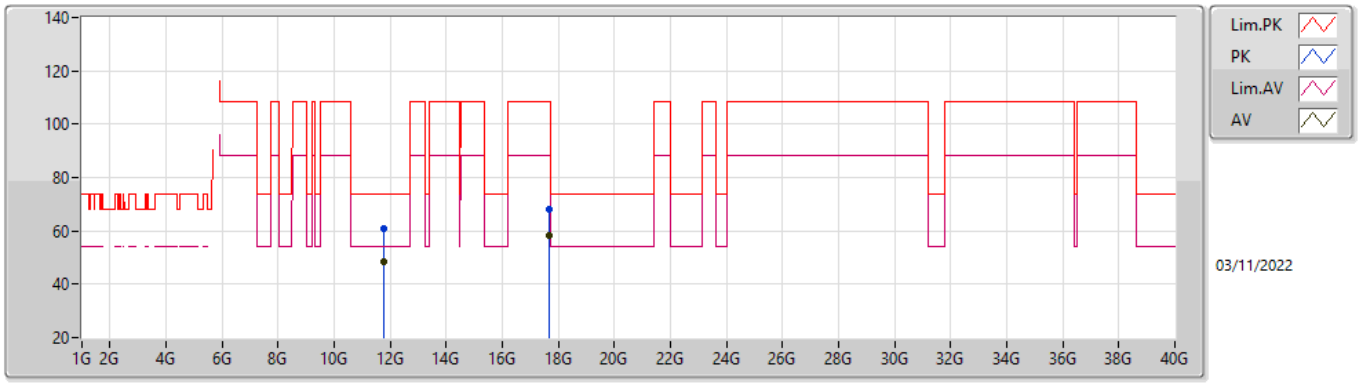


EUT Y_4TX
Setting 27
02-F-G-4-10

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	5.638G	58.14	68.20	-10.06	49.04	3	Horizontal	2	2.60	-	33.82	6.10	30.82
PK	5.891G	116.93	Inf	-Inf	107.71	3	Horizontal	2	2.60	-	34.05	6.19	31.02
AV	5.89G	107.89	Inf	-Inf	98.69	3	Horizontal	2	2.60	-	34.04	6.18	31.02
PK	5.908G	86.19	120.67	-34.48	76.90	3	Horizontal	2	2.60	-	34.12	6.20	31.03
RMS	5.895G	80.90	110.20	-29.30	71.66	3	Horizontal	2	2.60	-	34.07	6.19	31.02

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

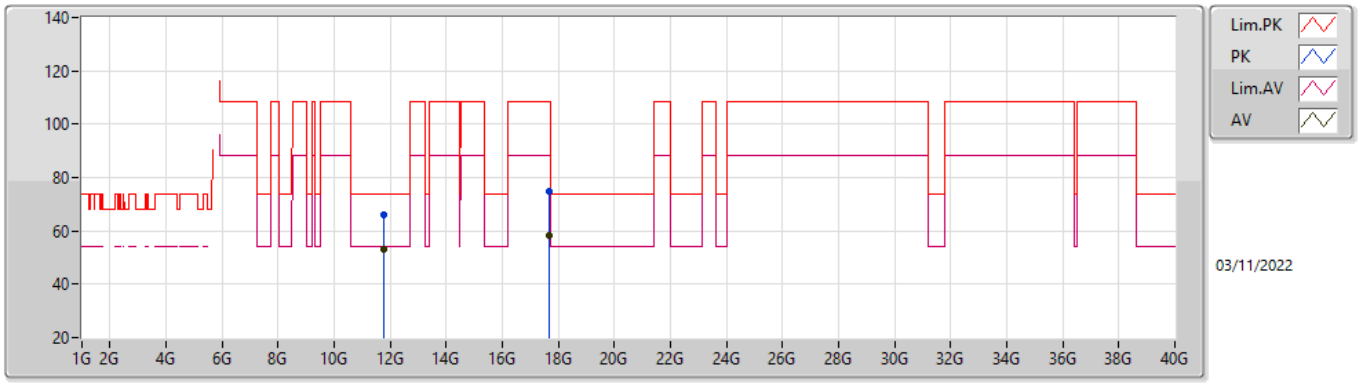


EUT Y_4TX
Setting 27
02-F-G-4

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	11.77222G	60.72	74.00	-13.28	44.58	3	Vertical	64	2.81	-	39.50	8.92	32.28
AV	11.77198G	48.46	54.00	-5.54	32.32	3	Vertical	64	2.81	-	39.50	8.92	32.28
PK	17.658G	68.22	108.20	-39.98	41.48	3	Vertical	69	1.92	-	45.36	11.08	29.70
RMS	17.6525G	58.45	88.20	-29.75	31.77	3	Vertical	69	1.92	-	45.32	11.08	29.72

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

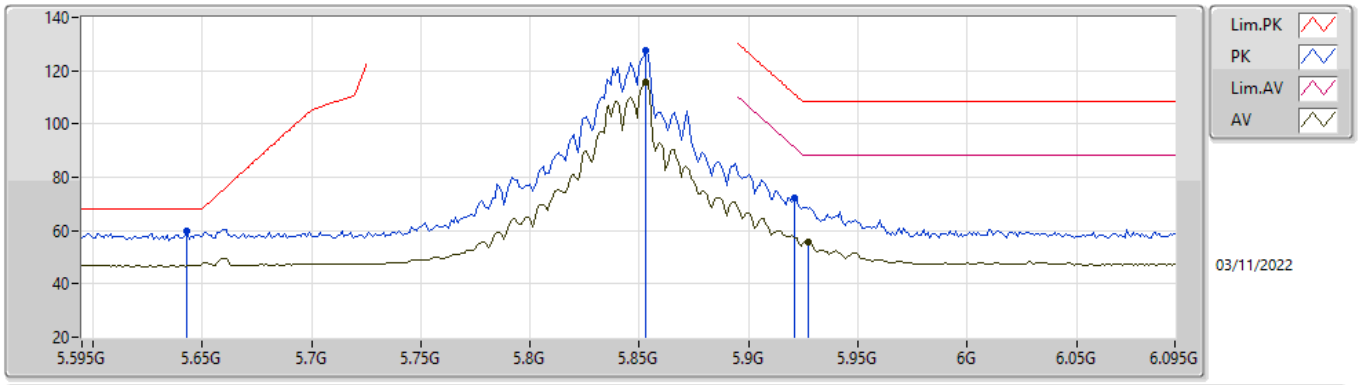


EUT Y_4TX
Setting 27
02-F-G-4

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	11.77606G	66.01	74.00	-7.99	49.87	3	Horizontal	32	1.37	-	39.50	8.92	32.28
AV	11.7772G	53.08	54.00	-0.92	36.94	3	Horizontal	32	1.37	-	39.50	8.92	32.28
PK	17.65668G	74.69	108.20	-33.51	47.96	3	Horizontal	29	1.74	-	45.35	11.08	29.70
RMS	17.6525G	58.10	88.20	-30.10	31.42	3	Horizontal	29	1.74	-	45.32	11.08	29.72

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

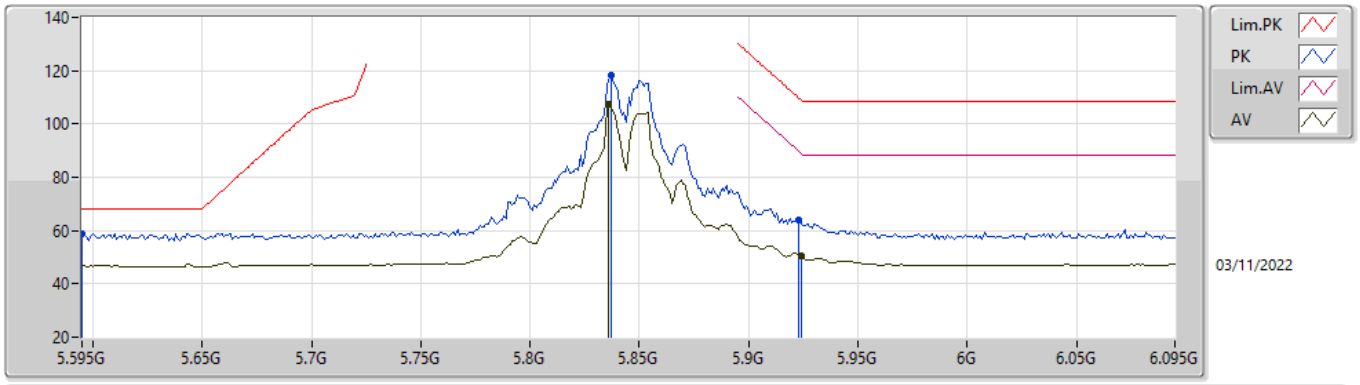


EUT Y_4TX
Setting 27.5
02-F-G-4-10

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	5.643G	59.83	68.20	-8.37	50.75	3	Vertical	332	2.14	-	33.81	6.10	30.83
PK	5.853G	127.33	Inf	-Inf	118.35	3	Vertical	332	2.14	-	33.82	6.15	30.99
AV	5.853G	115.49	Inf	-Inf	106.51	3	Vertical	332	2.14	-	33.82	6.15	30.99
PK	5.921G	72.13	111.13	-39.00	62.81	3	Vertical	332	2.14	-	34.14	6.22	31.04
RMS	5.927G	55.75	88.20	-32.45	46.42	3	Vertical	332	2.14	-	34.15	6.22	31.04

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

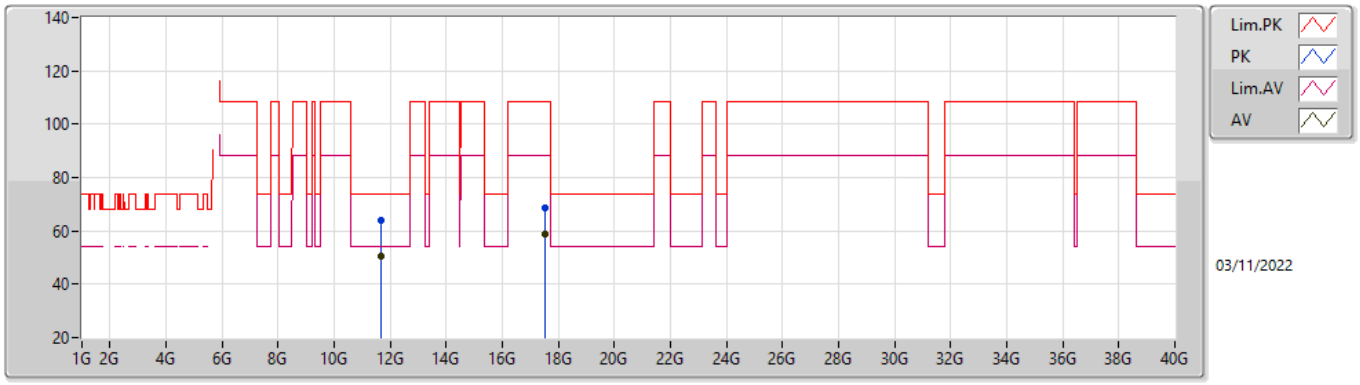


EUT Y_4TX
Setting 27.5
02-F-G-4-10

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	5.595G	58.94	68.20	-9.26	49.73	3	Horizontal	59	3.00	-	33.91	6.09	30.79
PK	5.837G	118.22	Inf	-Inf	109.27	3	Horizontal	59	3.00	-	33.80	6.13	30.98
AV	5.836G	107.18	Inf	-Inf	98.23	3	Horizontal	59	3.00	-	33.80	6.13	30.98
PK	5.923G	63.89	109.67	-45.78	54.56	3	Horizontal	59	3.00	-	34.15	6.22	31.04
RMS	5.924G	50.49	88.93	-38.44	41.16	3	Horizontal	59	3.00	-	34.15	6.22	31.04

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

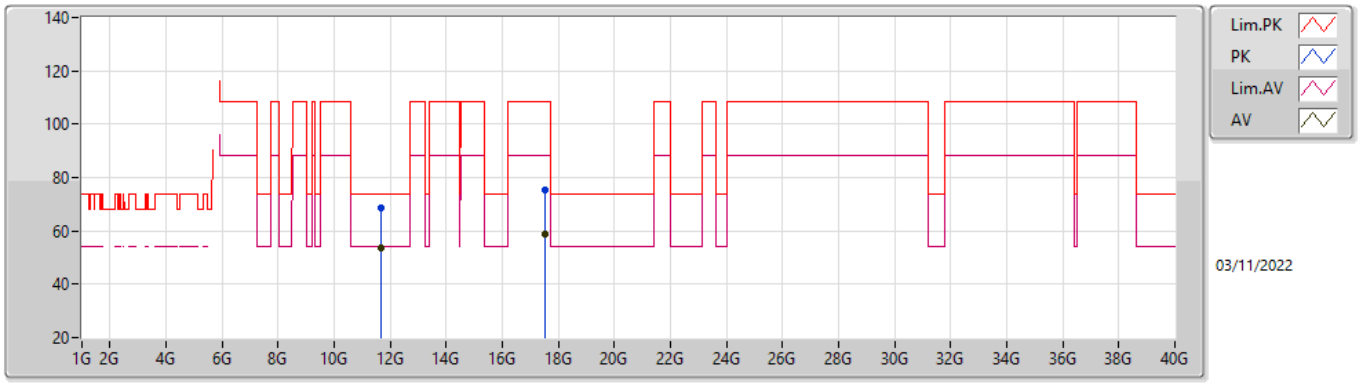


EUT Y_4TX
Setting 27.5
02-F-G-4

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	11.69216G	64.14	74.00	-9.86	48.00	3	Vertical	62	2.05	-	39.48	8.89	32.23
AV	11.69228G	50.45	54.00	-3.55	34.31	3	Vertical	62	2.05	-	39.48	8.89	32.23
PK	17.54598G	68.83	108.20	-39.37	43.49	3	Vertical	78	1.82	-	44.36	11.04	30.06
RMS	17.5325G	58.93	88.20	-29.27	33.77	3	Vertical	78	1.82	-	44.22	11.04	30.10

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

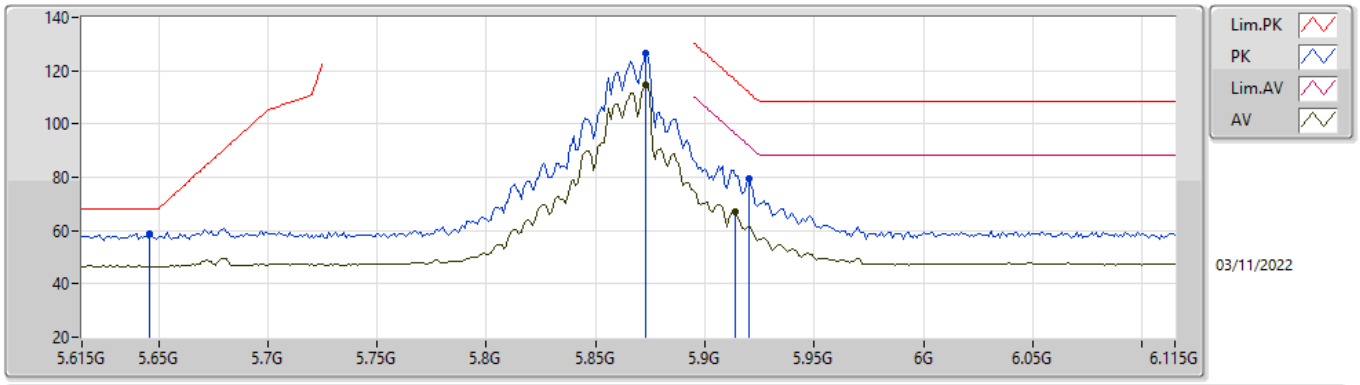


EUT Y_4TX
Setting 27.5
02-F-G-4

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	11.684G	68.75	74.00	-5.25	52.62	3	Horizontal	34	1.52	-	39.47	8.89	32.23
AV	11.68364G	53.67	54.00	-0.33	37.54	3	Horizontal	34	1.52	-	39.47	8.89	32.23
PK	17.52534G	75.44	108.20	-32.76	50.39	3	Horizontal	22	2.96	-	44.15	11.03	30.13
RMS	17.5325G	58.90	88.20	-29.30	33.74	3	Horizontal	22	2.96	-	44.22	11.04	30.10

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

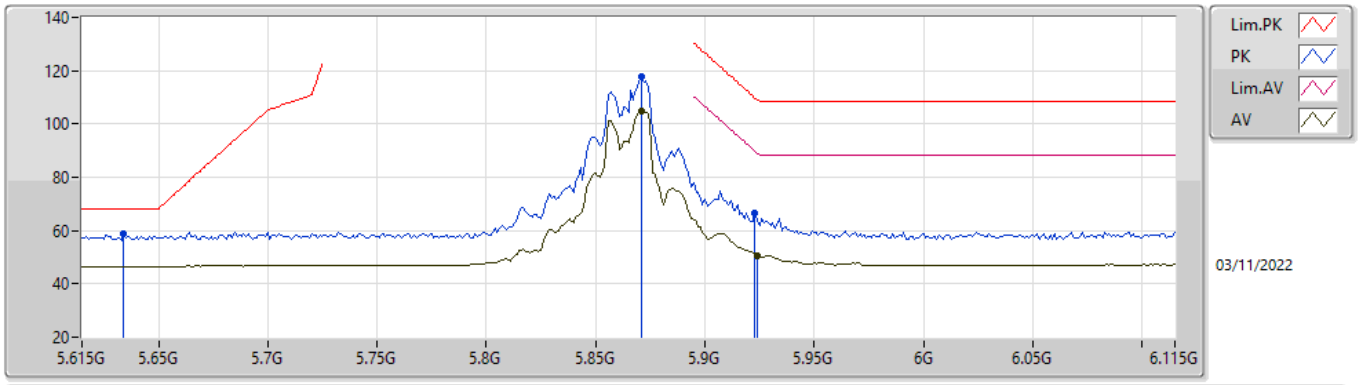


EUT Y_4TX
Setting 26.5
02-F-G-4-10

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	5.646G	58.75	68.20	-9.45	49.67	3	Vertical	334	1.39	-	33.81	6.10	30.83
PK	5.873G	126.60	Inf	-Inf	117.49	3	Vertical	334	1.39	-	33.94	6.17	31.00
AV	5.873G	114.61	Inf	-Inf	105.50	3	Vertical	334	1.39	-	33.94	6.17	31.00
PK	5.92G	79.64	111.87	-32.23	70.32	3	Vertical	334	1.39	-	34.14	6.22	31.04
RMS	5.914G	66.95	96.27	-29.32	57.64	3	Vertical	334	1.39	-	34.13	6.21	31.03

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

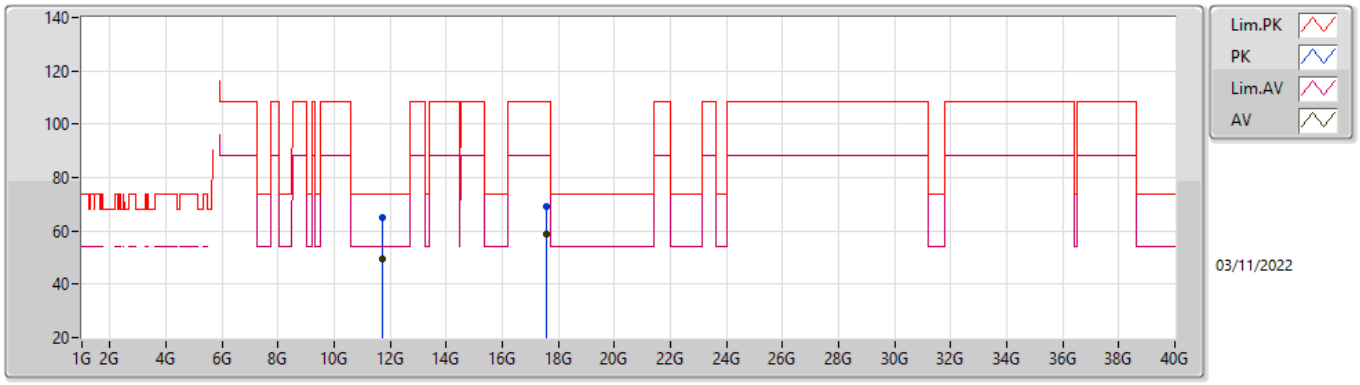


EUT Y_4TX
Setting 26.5
02-F-G-4-10

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	5.634G	58.71	68.20	-9.49	49.60	3	Horizontal	272	2.96	-	33.83	6.10	30.82
PK	5.871G	117.71	Inf	-Inf	108.62	3	Horizontal	272	2.96	-	33.93	6.16	31.00
AV	5.871G	104.79	Inf	-Inf	95.70	3	Horizontal	272	2.96	-	33.93	6.16	31.00
PK	5.923G	66.72	109.67	-42.95	57.39	3	Horizontal	272	2.96	-	34.15	6.22	31.04
RMS	5.924G	50.63	88.93	-38.30	41.30	3	Horizontal	272	2.96	-	34.15	6.22	31.04

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

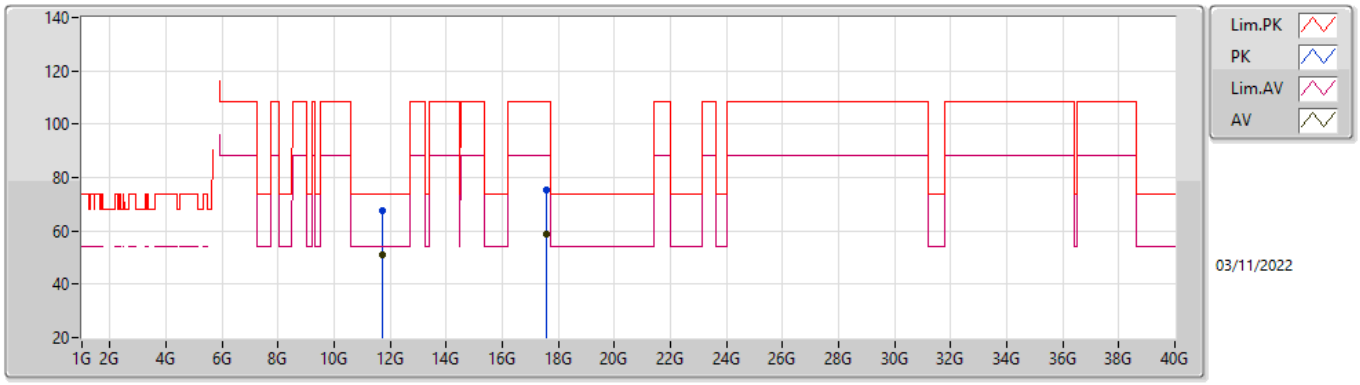


EUT Y_4TX
Setting 26.5
02-F-G-4

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	11.7324G	64.87	74.00	-9.13	48.71	3	Vertical	62	1.80	-	39.50	8.91	32.25
AV	11.73192G	49.64	54.00	-4.36	33.48	3	Vertical	62	1.80	-	39.50	8.91	32.25
PK	17.5908G	69.05	108.20	-39.15	43.10	3	Vertical	82	2.74	-	44.81	11.06	29.92
RMS	17.5925G	58.64	88.20	-29.56	32.66	3	Vertical	82	2.74	-	44.83	11.06	29.91

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

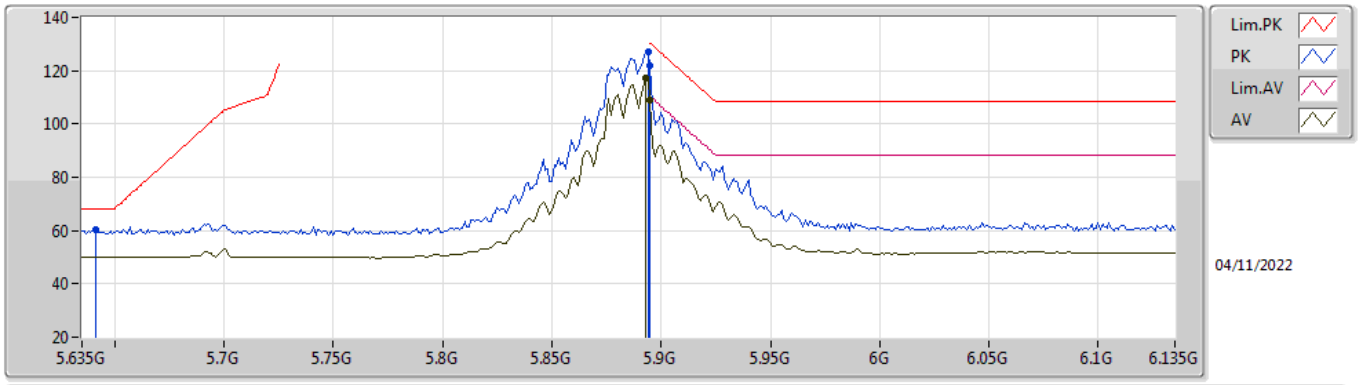


EUT Y_4TX
Setting 26.5
02-F-G-4

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	11.72484G	67.37	74.00	-6.63	51.22	3	Horizontal	34	1.35	-	39.50	8.90	32.25
AV	11.72406G	51.27	54.00	-2.73	35.12	3	Horizontal	34	1.35	-	39.50	8.90	32.25
PK	17.59632G	75.22	108.20	-32.98	49.20	3	Horizontal	357	2.23	-	44.86	11.06	29.90
RMS	17.5925G	58.79	88.20	-29.41	32.81	3	Horizontal	357	2.23	-	44.83	11.06	29.91

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

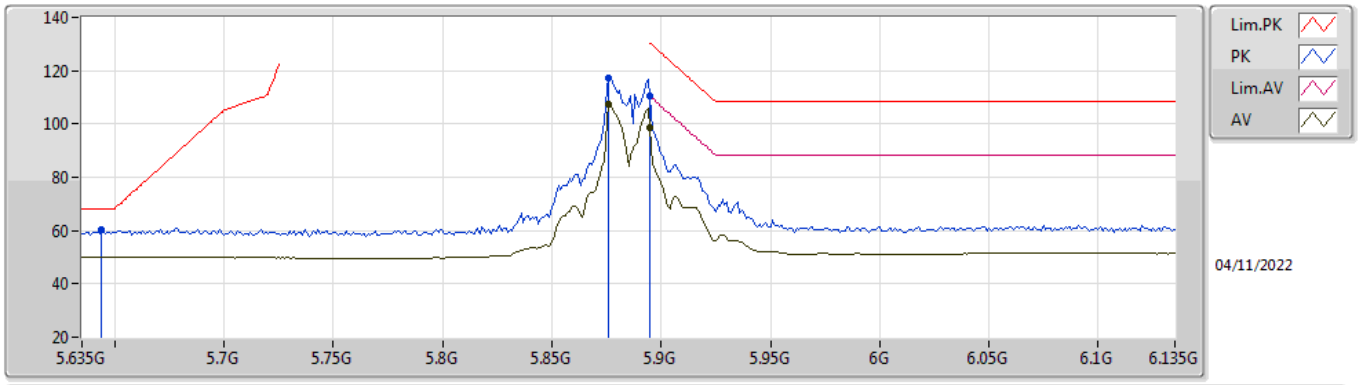


EUT Y_4TX
Setting 25.5
03-H-E-5-10

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	5.641G	60.35	68.20	-7.85	53.60	3	Vertical	334	1.40	-	34.52	7.12	34.89
PK	5.894G	127.00	Inf	-Inf	120.14	3	Vertical	334	1.40	-	34.56	7.25	34.95
AV	5.893G	117.11	Inf	-Inf	110.25	3	Vertical	334	1.40	-	34.56	7.25	34.95
PK	5.895G	121.96	130.20	-8.24	115.09	3	Vertical	334	1.40	-	34.57	7.25	34.95
RMS	5.895G	109.05	110.20	-1.15	102.18	3	Vertical	334	1.40	-	34.57	7.25	34.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

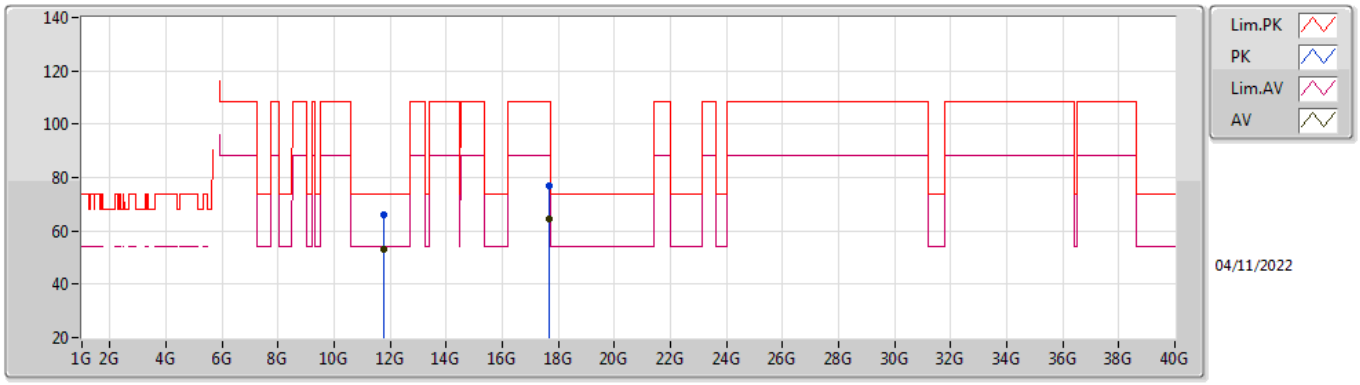


EUT Y_4TX
Setting 25.5
03-H-E-5-10

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	5.644G	60.12	68.20	-8.08	53.38	3	Horizontal	274	1.40	-	34.51	7.12	34.89
PK	5.876G	117.40	Inf	-Inf	110.64	3	Horizontal	274	1.40	-	34.46	7.24	34.94
AV	5.876G	107.41	Inf	-Inf	100.65	3	Horizontal	274	1.40	-	34.46	7.24	34.94
PK	5.895G	110.27	130.20	-19.93	103.40	3	Horizontal	274	1.40	-	34.57	7.25	34.95
RMS	5.895G	98.54	110.20	-11.66	91.67	3	Horizontal	274	1.40	-	34.57	7.25	34.95

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

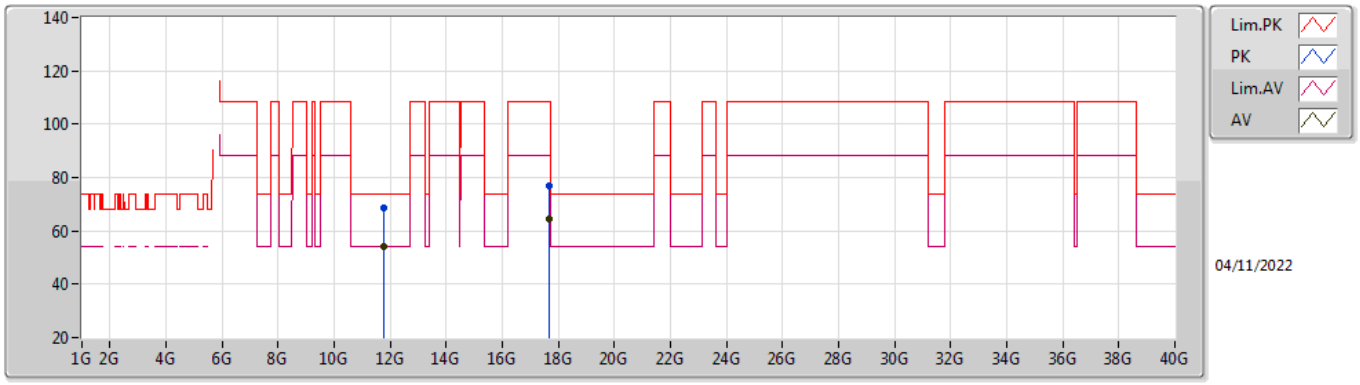


EUT Y_4TX
Setting 25.5
03-H-E-5

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	11.77192G	66.28	74.00	-7.72	48.84	3	Vertical	55	2.58	-	39.47	12.97	35.00
AV	11.77168G	52.87	54.00	-1.13	35.43	3	Vertical	55	2.58	-	39.47	12.97	35.00
PK	17.64882G	77.14	108.20	-31.06	49.72	3	Vertical	90	1.55	-	43.84	17.69	34.11
AV	17.6502G	64.53	88.20	-23.67	37.09	3	Vertical	90	1.55	-	43.85	17.69	34.10

5.725-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

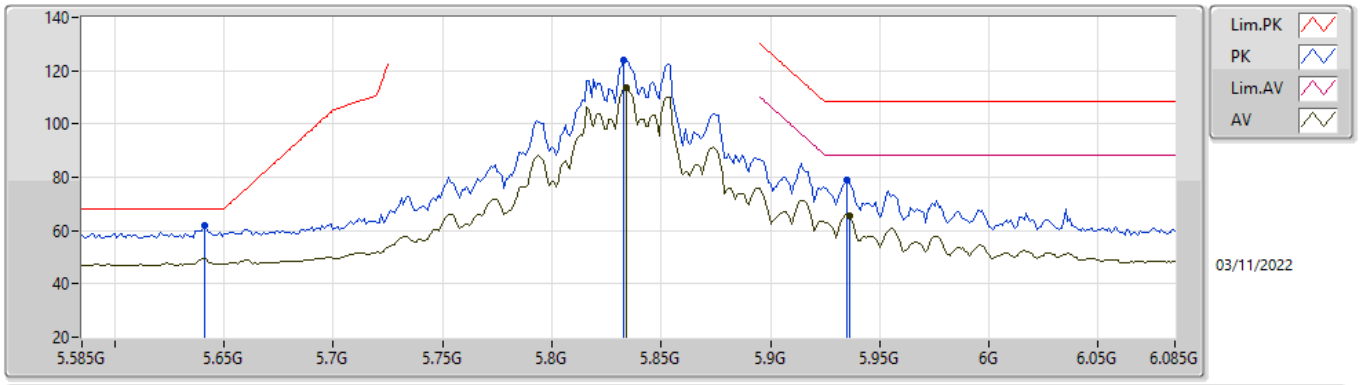


EUT Y_4TX
Setting 25.5
03-H-E-5

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	11.7646G	68.43	74.00	-5.57	50.99	3	Horizontal	31	1.38	-	39.46	12.97	34.99
AV	11.7643G	53.90	54.00	-0.10	36.46	3	Horizontal	31	1.38	-	39.46	12.97	34.99
PK	17.65218G	77.01	108.20	-31.19	57.34	3	Horizontal	39	1.25	-	43.87	17.69	41.89
AV	17.65158G	64.32	88.20	-23.88	44.66	3	Horizontal	39	1.25	-	43.86	17.69	41.89

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

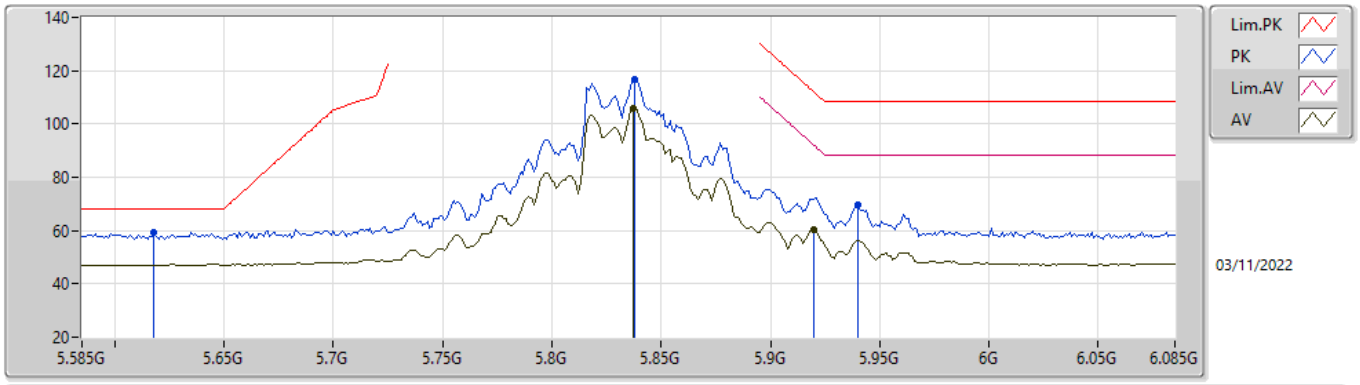


EUT Y_4TX
Setting 26.5
02-F-G-4-10

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	5.641G	62.09	68.20	-6.11	53.00	3	Vertical	254	1.23	-	33.82	6.10	30.83
PK	5.833G	123.94	Inf	-Inf	114.99	3	Vertical	254	1.23	-	33.80	6.12	30.97
AV	5.834G	113.54	Inf	-Inf	104.58	3	Vertical	254	1.23	-	33.80	6.13	30.97
PK	5.935G	78.76	108.20	-29.44	69.41	3	Vertical	254	1.23	-	34.17	6.23	31.05
RMS	5.936G	65.62	88.20	-22.58	56.27	3	Vertical	254	1.23	-	34.17	6.23	31.05

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

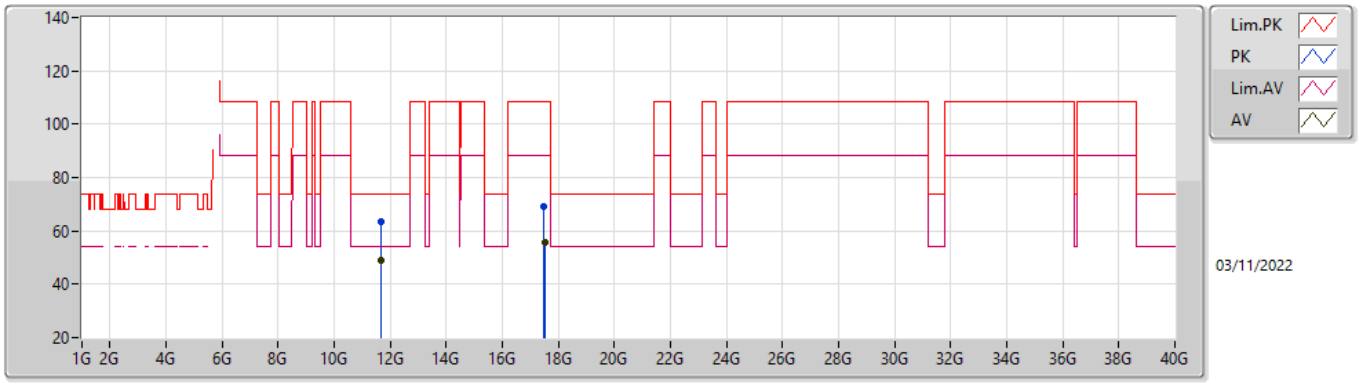


EUT Y_4TX
Setting 26.5
02-F-G-4-10

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	5.618G	59.34	68.20	-8.86	50.19	3	Horizontal	339	2.89	-	33.86	6.10	30.81
PK	5.838G	116.83	Inf	-Inf	107.88	3	Horizontal	339	2.89	-	33.80	6.13	30.98
AV	5.837G	105.64	Inf	-Inf	96.69	3	Horizontal	339	2.89	-	33.80	6.13	30.98
PK	5.94G	69.76	108.20	-38.44	60.39	3	Horizontal	339	2.89	-	34.18	6.24	31.05
RMS	5.92G	60.31	91.87	-31.56	50.99	3	Horizontal	339	2.89	-	34.14	6.22	31.04

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

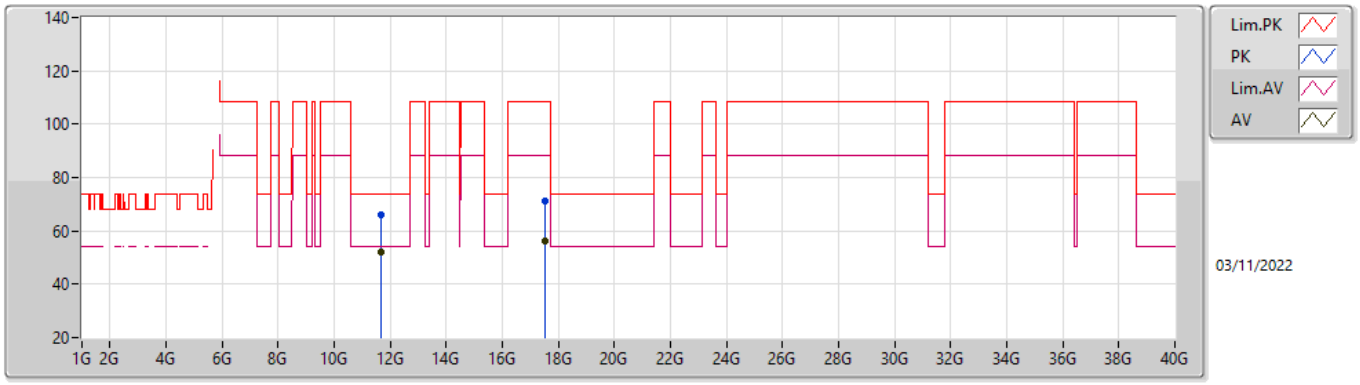


EUT Y_4TX
Setting 26.5
02-F-G-4

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	11.6713G	63.59	74.00	-10.41	47.49	3	Vertical	62	1.85	-	39.44	8.88	32.22
AV	11.6722G	48.89	54.00	-5.11	32.78	3	Vertical	62	1.85	-	39.44	8.89	32.22
PK	17.4927G	69.09	108.20	-39.11	44.44	3	Vertical	90	1.80	-	43.84	11.02	30.21
RMS	17.5025G	55.77	88.20	-32.43	31.02	3	Vertical	90	1.80	-	43.92	11.03	30.20

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

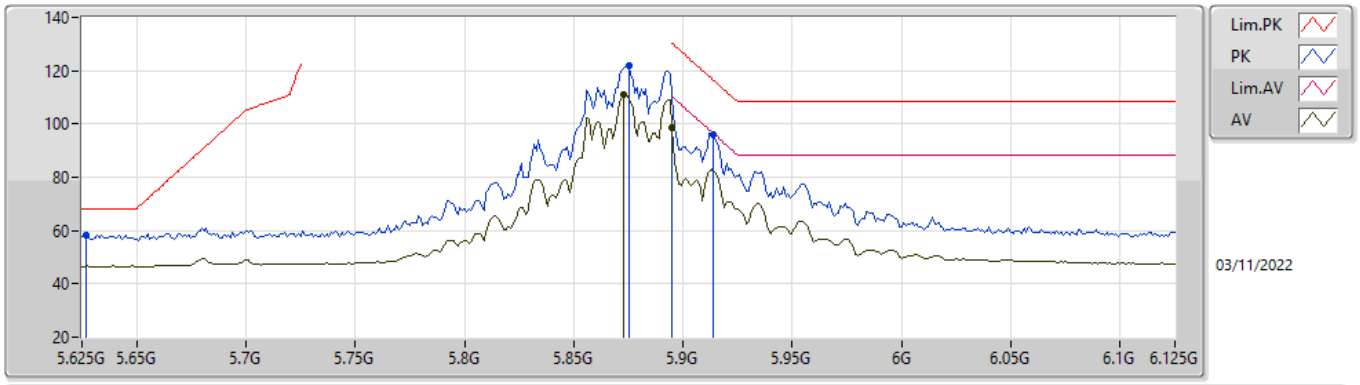


EUT Y_4TX
Setting 26.5
02-F-G-4

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	11.6635G	65.92	74.00	-8.08	49.82	3	Horizontal	32	1.55	-	39.43	8.88	32.21
AV	11.6636G	52.21	54.00	-1.79	36.11	3	Horizontal	32	1.55	-	39.43	8.88	32.21
PK	17.5117G	71.37	108.20	-36.83	46.49	3	Horizontal	23	1.80	-	44.02	11.03	30.17
RMS	17.5025G	55.98	88.20	-32.22	31.23	3	Horizontal	23	1.80	-	43.92	11.03	30.20

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

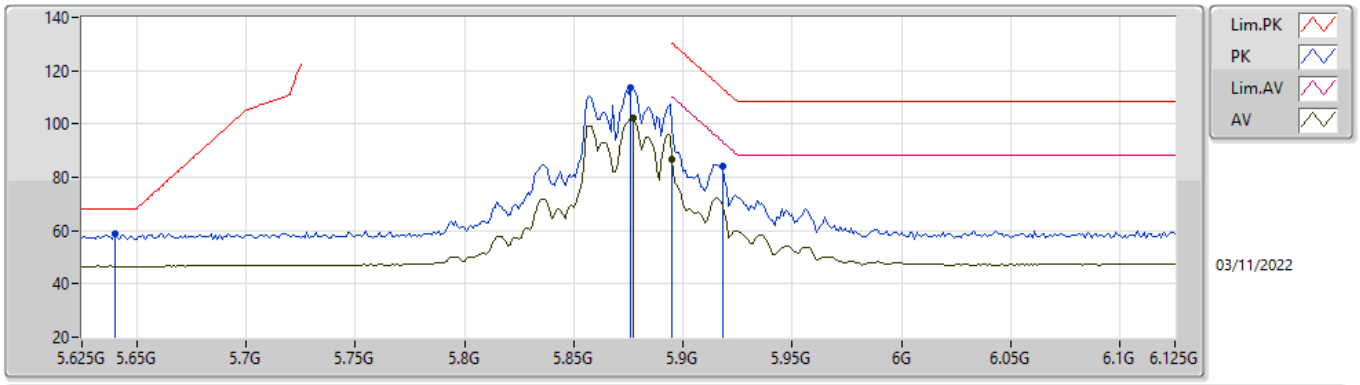


EUT Y_4TX
Setting 25
02-F-G-4-10

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	5.627G	58.51	68.20	-9.69	49.38	3	Vertical	253	1.80	-	33.85	6.10	30.82
PK	5.875G	121.87	Inf	-Inf	112.76	3	Vertical	253	1.80	-	33.95	6.17	31.01
AV	5.873G	110.97	Inf	-Inf	101.86	3	Vertical	253	1.80	-	33.94	6.17	31.00
PK	5.914G	96.02	116.27	-20.25	86.71	3	Vertical	253	1.80	-	34.13	6.21	31.03
RMS	5.895G	98.47	110.20	-11.73	89.23	3	Vertical	253	1.80	-	34.07	6.19	31.02

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

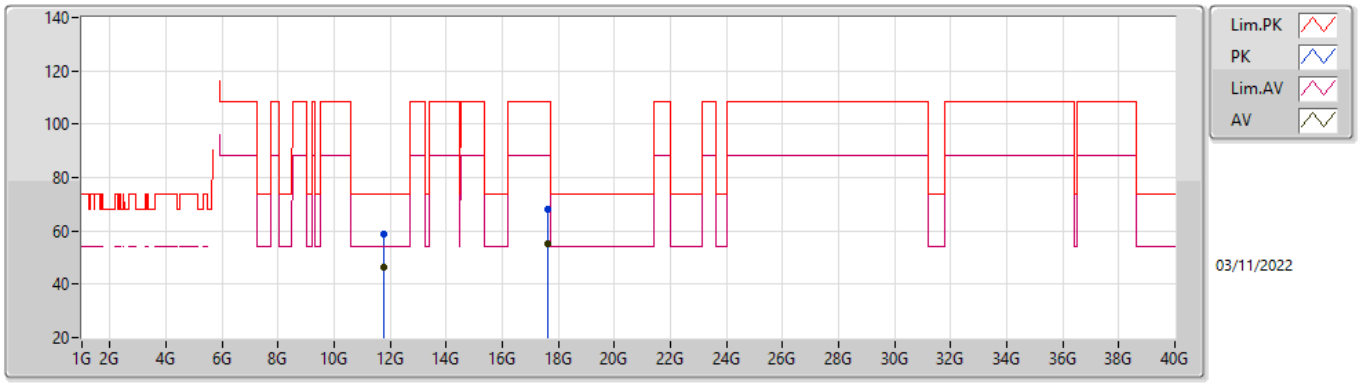


EUT Y_4TX
Setting 25
02-F-G-4-10

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	5.64G	58.67	68.20	-9.53	49.58	3	Horizontal	352	1.67	-	33.82	6.10	30.83
PK	5.876G	113.45	Inf	-Inf	104.33	3	Horizontal	352	1.67	-	33.96	6.17	31.01
AV	5.877G	102.42	Inf	-Inf	93.30	3	Horizontal	352	1.67	-	33.96	6.17	31.01
PK	5.918G	84.17	113.33	-29.16	74.86	3	Horizontal	352	1.67	-	34.14	6.21	31.04
RMS	5.895G	86.97	110.20	-23.23	77.73	3	Horizontal	352	1.67	-	34.07	6.19	31.02

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

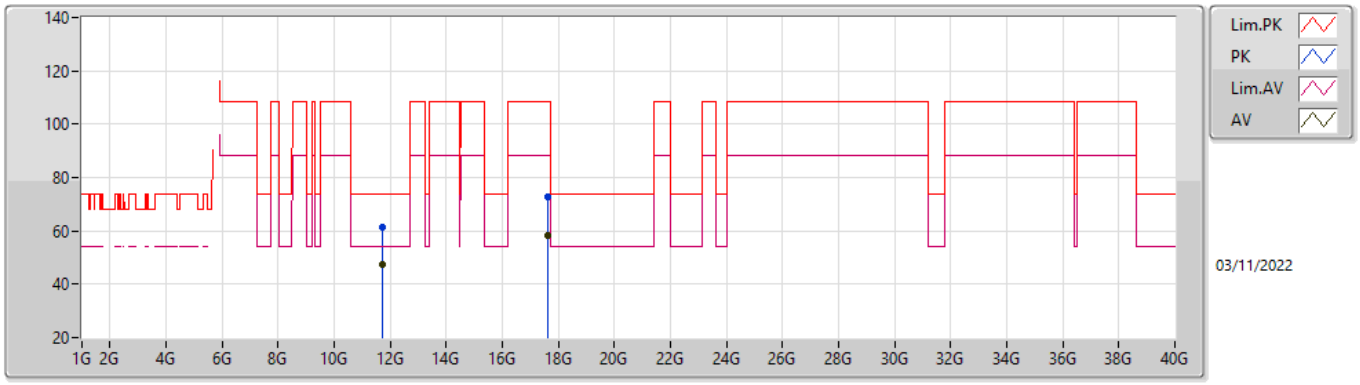


EUT Y_4TX
Setting 25
02-F-G-4

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	11.7521G	58.73	74.00	-15.27	42.59	3	Vertical	65	1.80	-	39.50	8.91	32.27
AV	11.7523G	46.27	54.00	-7.73	30.13	3	Vertical	65	1.80	-	39.50	8.91	32.27
PK	17.6199G	68.27	108.20	-39.93	41.96	3	Vertical	69	2.10	-	45.06	11.07	29.82
RMS	17.6225G	55.14	88.20	-33.06	28.80	3	Vertical	69	2.10	-	45.08	11.07	29.81

5.725-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

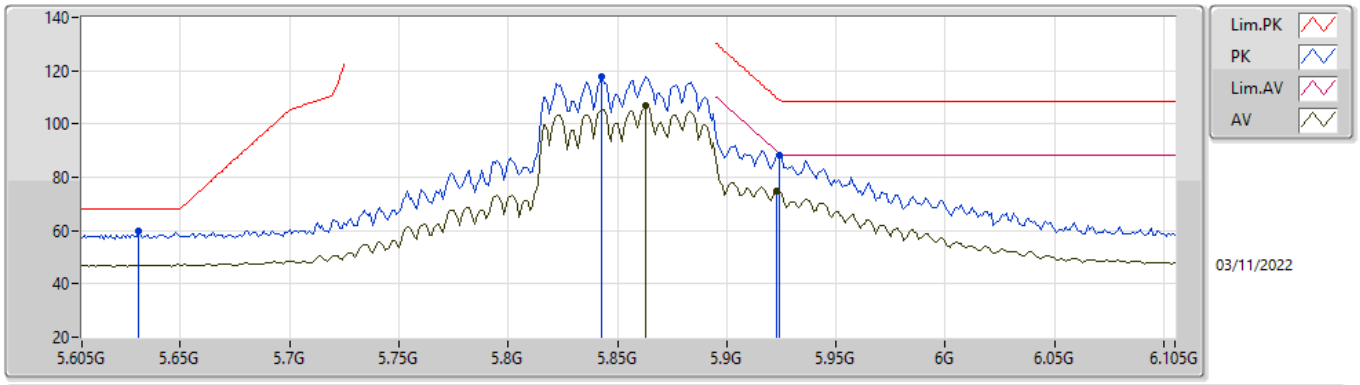


EUT Y_4TX
Setting 25
02-F-G-4

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	11.7438G	61.45	74.00	-12.55	45.30	3	Horizontal	36	1.57	-	39.50	8.91	32.26
AV	11.7436G	47.57	54.00	-6.43	31.42	3	Horizontal	36	1.57	-	39.50	8.91	32.26
PK	17.6167G	72.66	108.20	-35.54	46.39	3	Horizontal	40	2.94	-	45.03	11.07	29.83
RMS	17.6275G	58.33	88.20	-29.87	31.94	3	Horizontal	40	2.94	-	45.12	11.07	29.80

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

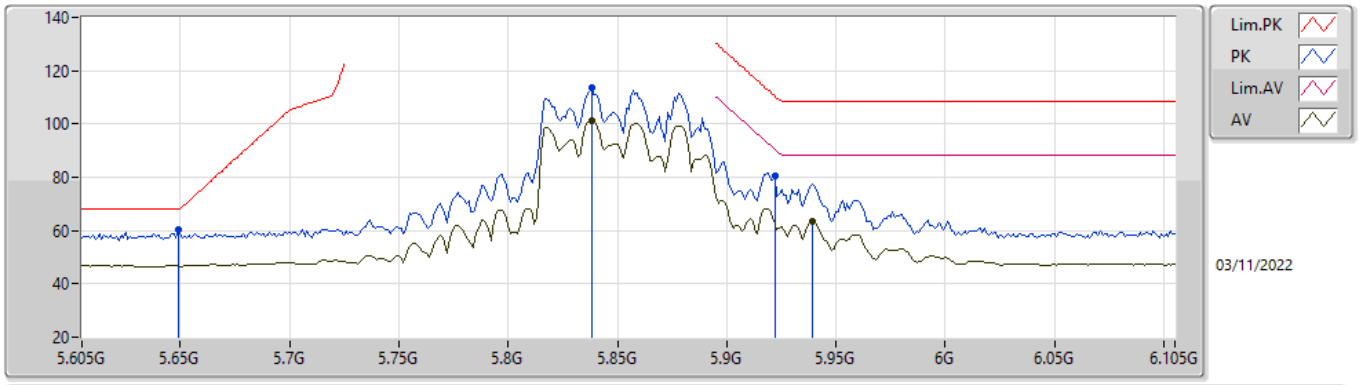


EUT Y_4TX
Setting 25
02-F-G-4-10

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	5.631G	59.73	68.20	-8.47	50.61	3	Vertical	333	1.55	-	33.84	6.10	30.82
PK	5.843G	117.93	Inf	-Inf	108.97	3	Vertical	333	1.55	-	33.80	6.14	30.98
AV	5.863G	107.04	Inf	-Inf	98.00	3	Vertical	333	1.55	-	33.88	6.16	31.00
PK	5.924G	88.08	108.93	-20.85	78.75	3	Vertical	333	1.55	-	34.15	6.22	31.04
RMS	5.923G	74.95	89.67	-14.72	65.62	3	Vertical	333	1.55	-	34.15	6.22	31.04

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

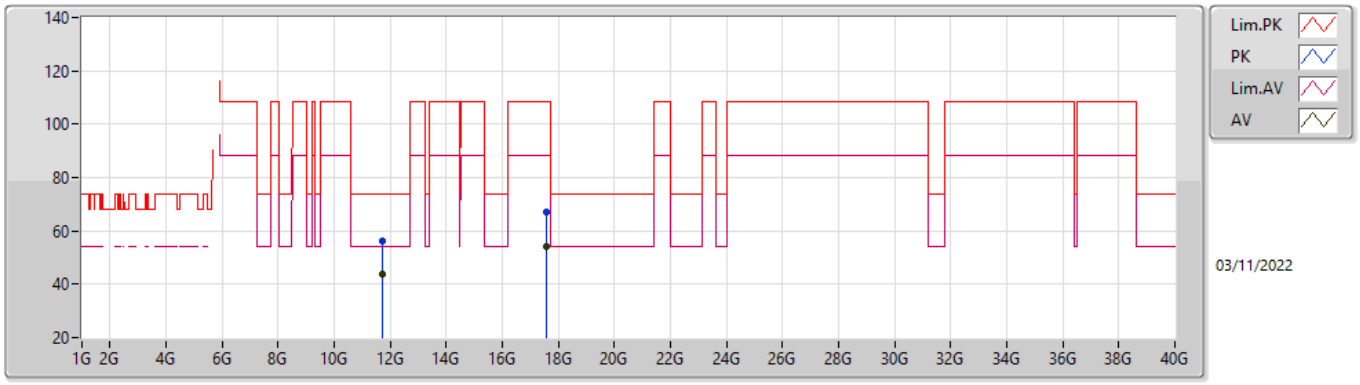


EUT Y_4TX
Setting 25
02-F-G-4-10

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	5.649G	60.18	68.20	-8.02	51.11	3	Horizontal	336	3.00	-	33.80	6.10	30.83
PK	5.838G	113.38	Inf	-Inf	104.43	3	Horizontal	336	3.00	-	33.80	6.13	30.98
AV	5.838G	101.29	Inf	-Inf	92.34	3	Horizontal	336	3.00	-	33.80	6.13	30.98
PK	5.922G	80.48	110.40	-29.92	71.16	3	Horizontal	336	3.00	-	34.14	6.22	31.04
RMS	5.939G	63.49	88.20	-24.71	54.12	3	Horizontal	336	3.00	-	34.18	6.24	31.05

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

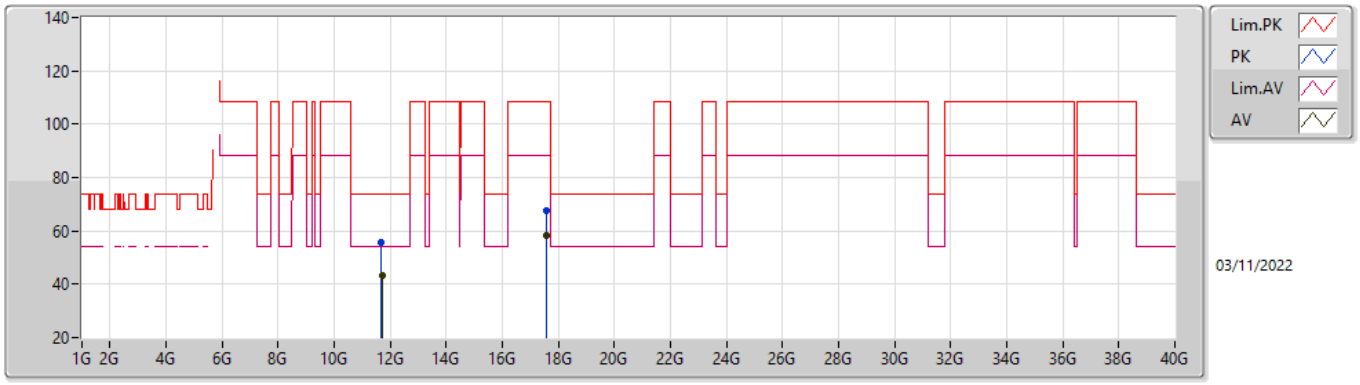


EUT Y_4TX
Setting 25
02-F-G-4

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	11.7311G	56.29	74.00	-17.71	40.13	3	Vertical	62	2.10	-	39.50	8.91	32.25
AV	11.7097G	43.70	54.00	-10.30	27.54	3	Vertical	62	2.10	-	39.50	8.90	32.24
PK	17.5516G	66.84	108.20	-41.36	41.42	3	Vertical	32	1.80	-	44.42	11.04	30.04
RMS	17.5625G	54.28	88.20	-33.92	28.72	3	Vertical	32	1.80	-	44.52	11.05	30.01

5.725-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

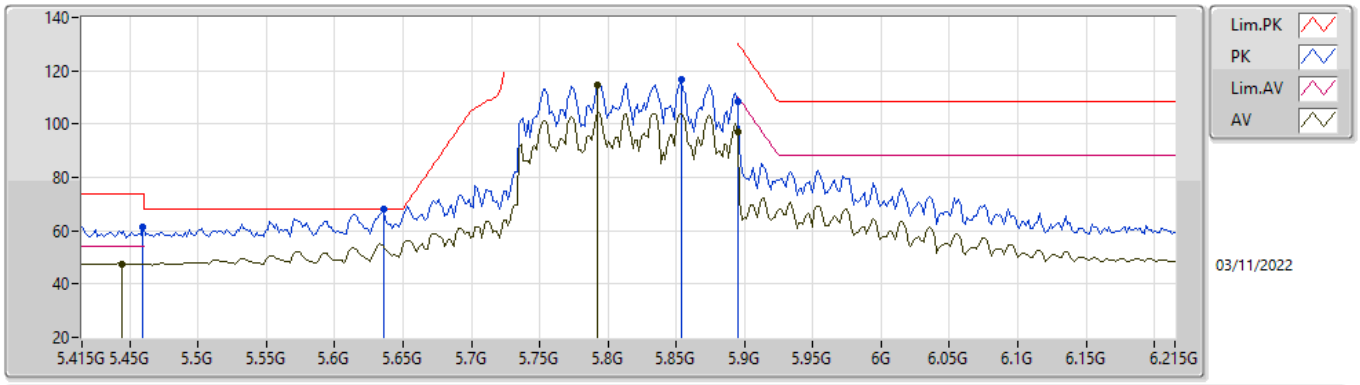


EUT Y_4TX
Setting 25
02-F-G-4

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	11.6939G	55.82	74.00	-18.18	39.67	3	Horizontal	58	2.38	-	39.49	8.89	32.23
AV	11.7139G	43.25	54.00	-10.75	27.09	3	Horizontal	58	2.38	-	39.50	8.90	32.24
PK	17.5651G	67.60	108.20	-40.60	42.00	3	Horizontal	0	2.24	-	44.55	11.05	30.00
RMS	17.5625G	58.17	88.20	-30.03	32.61	3	Horizontal	0	2.24	-	44.52	11.05	30.01

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

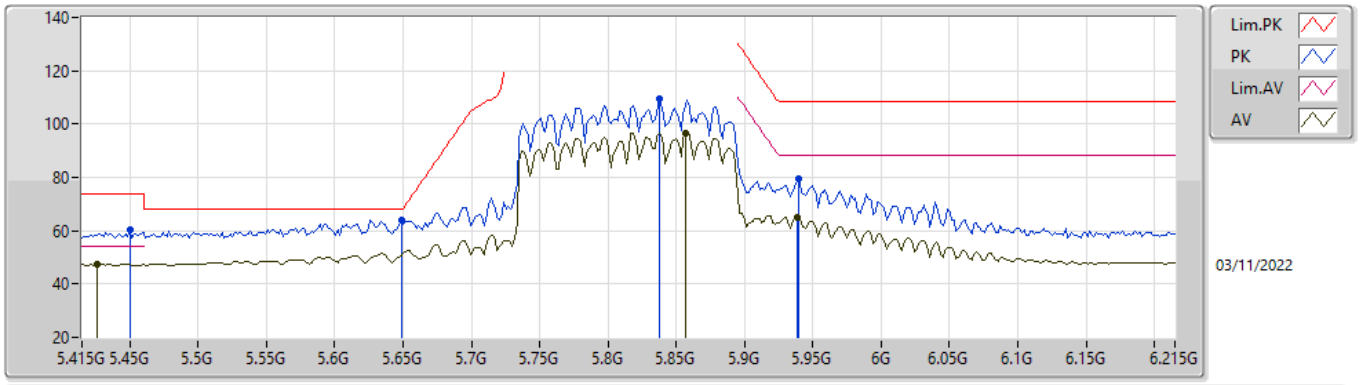


EUT Y_4TX
Setting 22.5
02-F-G-4-10

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	5.4598G	61.23	74.00	-12.77	51.99	3	Vertical	252	1.32	-	34.00	5.96	30.72
AV	5.4438G	47.63	54.00	-6.37	38.41	3	Vertical	252	1.32	-	34.00	5.94	30.72
PK	5.6358G	68.06	68.20	-0.14	58.95	3	Vertical	252	1.32	-	33.83	6.10	30.82
PK	5.8534G	116.60	Inf	-Inf	107.62	3	Vertical	252	1.32	-	33.82	6.15	30.99
AV	5.7926G	114.47	Inf	-Inf	105.51	3	Vertical	252	1.32	-	33.80	6.10	30.94
PK	5.895G	108.59	130.20	-21.61	99.35	3	Vertical	252	1.32	-	34.07	6.19	31.02
RMS	5.895G	96.83	110.20	-13.37	87.59	3	Vertical	252	1.32	-	34.07	6.19	31.02

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

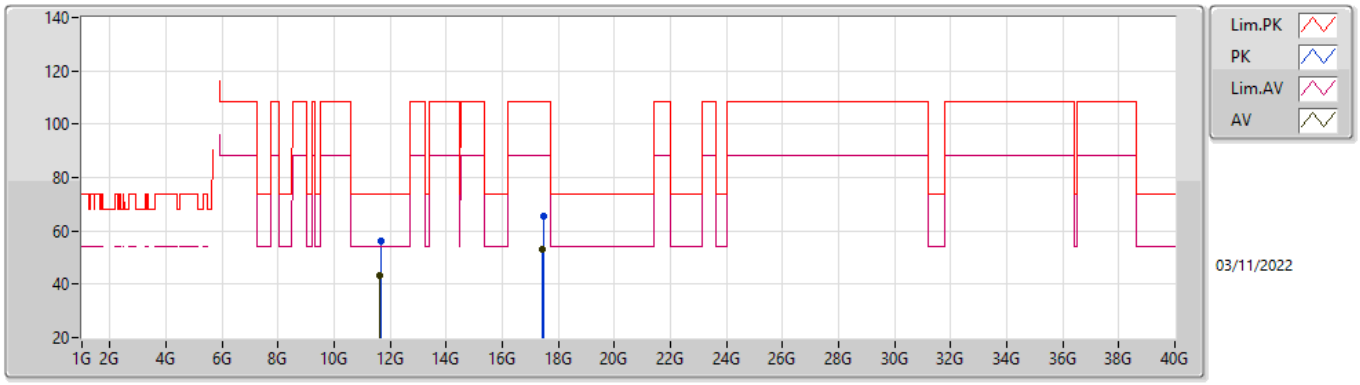


EUT Y_4TX
Setting 22.5
02-F-G-4-10

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	5.4502G	60.18	74.00	-13.82	50.95	3	Horizontal	227	1.84	-	34.00	5.95	30.72
AV	5.4262G	47.36	54.00	-6.64	38.15	3	Horizontal	227	1.84	-	34.00	5.93	30.72
PK	5.6486G	63.80	68.20	-4.40	54.73	3	Horizontal	227	1.84	-	33.80	6.10	30.83
PK	5.8374G	109.35	Inf	-Inf	100.40	3	Horizontal	227	1.84	-	33.80	6.13	30.98
AV	5.8566G	96.65	Inf	-Inf	87.65	3	Horizontal	227	1.84	-	33.84	6.15	30.99
PK	5.9398G	79.38	108.20	-28.82	70.01	3	Horizontal	227	1.84	-	34.18	6.24	31.05
RMS	5.9382G	65.11	88.20	-23.09	55.74	3	Horizontal	227	1.84	-	34.18	6.24	31.05

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

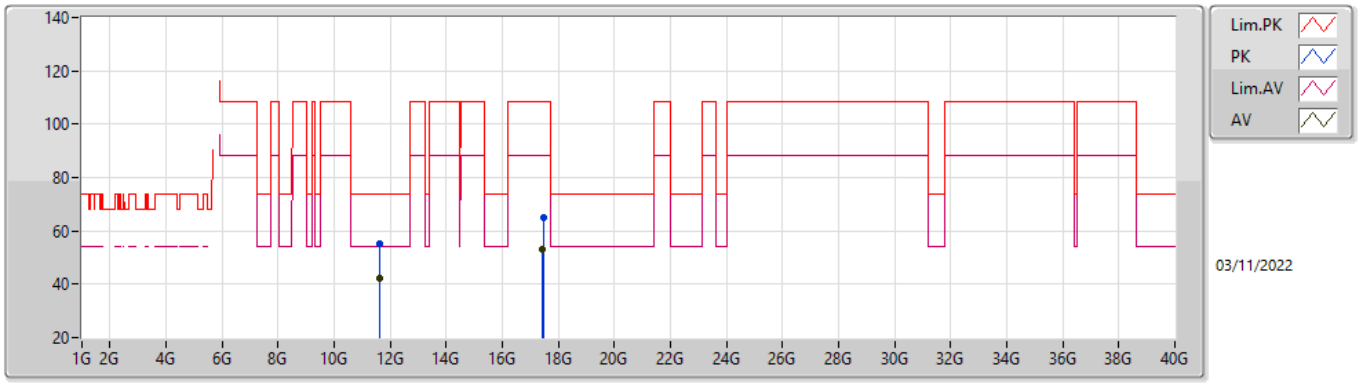


EUT Y_4TX
Setting 22.5
02-F-G-4

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	11.6505G	56.40	74.00	-17.60	40.33	3	Vertical	62	1.80	-	39.40	8.88	32.21
AV	11.6297G	43.11	54.00	-10.89	27.08	3	Vertical	62	1.80	-	39.36	8.87	32.20
PK	17.4627G	65.41	108.20	-42.79	41.01	3	Vertical	69	1.82	-	43.60	11.01	30.21
RMS	17.4475G	53.02	88.20	-35.18	28.75	3	Vertical	69	1.82	-	43.48	11.01	30.22

5.725-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX



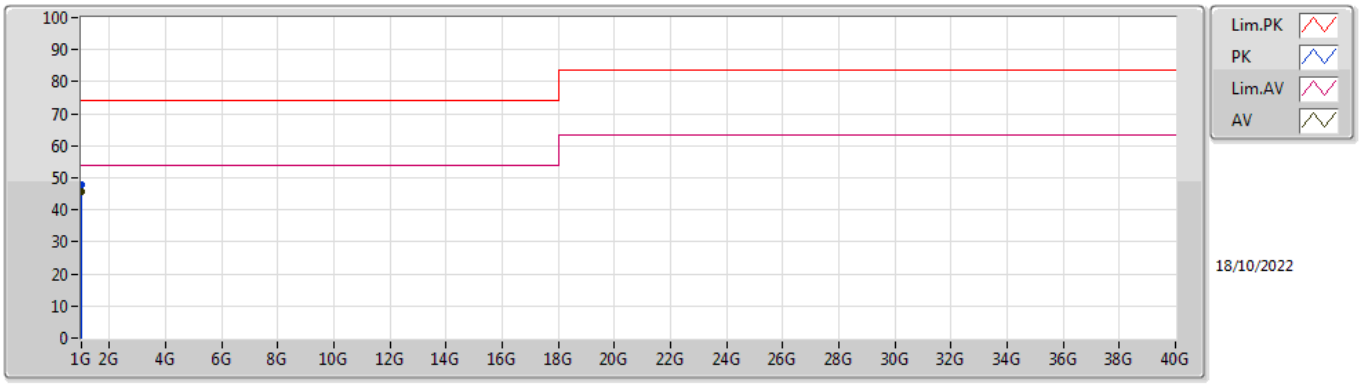
EUT Y_4TX
Setting 22.5
02-F-G-4

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	11.6366G	55.33	74.00	-18.67	39.29	3	Horizontal	63	3.00	-	39.37	8.87	32.20
AV	11.6293G	42.12	54.00	-11.88	26.08	3	Horizontal	63	3.00	-	39.36	8.87	32.19
PK	17.4516G	65.20	108.20	-43.00	40.89	3	Horizontal	0	2.05	-	43.51	11.01	30.21
RMS	17.4475G	53.12	88.20	-35.08	28.85	3	Horizontal	0	2.05	-	43.48	11.01	30.22

Summary

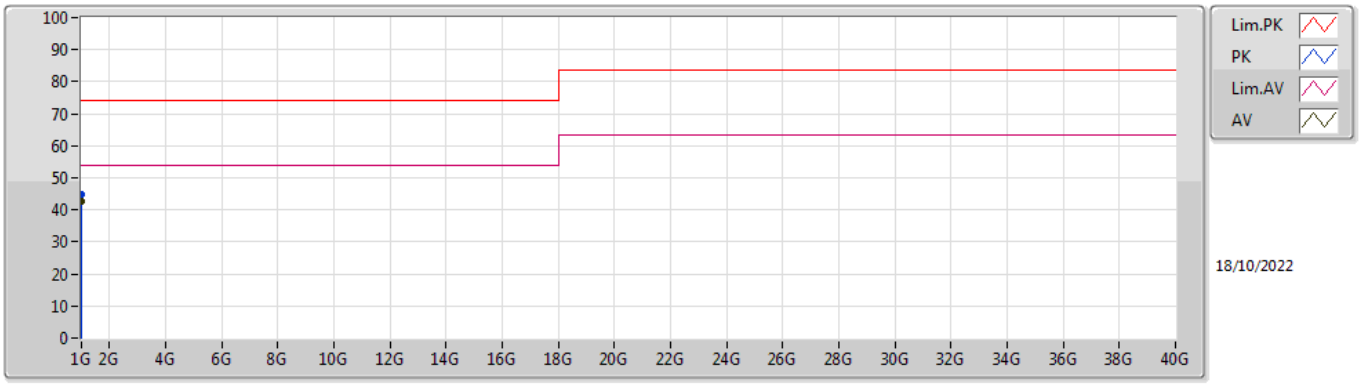
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.01252G	45.84	54.00	-8.16	Vertical

Mode 1



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	1.01244G	47.66	74.00	-26.34	-10.29	3	Vertical	161	1.82	-	57.95	24.55	2.42	37.26
AV	1.01252G	45.84	54.00	-8.16	-10.29	3	Vertical	161	1.82	"Worst"	56.13	24.55	2.42	37.26

Mode 1



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	1.01259G	44.74	74.00	-29.26	-10.29	3	Horizontal	50	1.00	-	55.03	24.55	2.42	37.26
AV	1.0125G	42.65	54.00	-11.35	-10.29	3	Horizontal	50	1.00	"Worst"	52.94	24.55	2.42	37.26