



RADIO TEST REPORT

FCC ID : Z8H89FT0077
Equipment : XV2-22H Wallplate Wi-Fi 6 Access Point
Brand Name : Cambium Networks
Model Name : XV2-22H
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL
60008, USA
Manufacturer : Cambium Networks, Ltd.
Ashburton, TQ13 7UP, UK
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 01, 2022, and testing was started from Jul. 07, 2022 and completed on Aug. 02, 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

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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.4



Summary of Test Result

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

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
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11n HT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

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

1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee					
1	1	-	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	Note1
2	2	-	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
3	-	2	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
4	-	1	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
5	-	-	1	Gemtek	WRTQ-372AX	Dipole	I-Pex	

Note1: Antenna Gain information

Ant.	Port			Antenna Gain (dBi)			
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee	
1	1	-	-	4.47	-	-	-
2	2	-	-	4.42	-	-	-
3	-	2	-	-	5.56	5.48	-
4	-	1	-	-	5.45	5.51	-
5	-	-	1	-	-	-	5.18

Note 2: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log \left[\frac{(NSS1(g1,1) + NSS1(g1,2))^2}{N_{ANT}} \right] \Rightarrow 10 \log \left[\frac{(10^{G1/20} + 10^{G2/20})^2}{N_{ANT}} \right]$$

Where ;

$$G1 = 10 ; G2 = 10 ;$$

$$2.4G \ G1 = 4.47 \text{ dBi} ; G2 = 4.42 \text{ dBi} ; DG = 7.46 \text{ dBi}$$

$$5G \text{ Band1} \ G1 = 5.56 \text{ dBi} ; G2 = 5.45 \text{ dBi} ; DG = 8.52 \text{ dBi}$$

$$5G \text{ Band4} \ G1 = 5.48 \text{ dBi} ; G2 = 5.51 \text{ dBi} ; DG = 8.51 \text{ dBi}$$



Note 3: The above information was declared by manufacturer.

Note 4: The EUT has five antennas.

<WLAN 2.4GHz Function>**IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

<WLAN 5GHz Function>**IEEE 802.11a/n/ac/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

<Bluetooth/Zigbee function>**Bluetooth/Zigbee (1TX/1RX):**

Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.932	0.31	2m	1k
802.11ax HEW20	0.932	0.31	5.52m	300
802.11ax HEW40	0.92	0.36	5.452m	300
802.11ax HEW80	0.894	0.49	5.453m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	RF Conducted	QSPR Version 5.0-00199		
	Radiated	DOS [ver 6.1.7601]		

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports functions

Function
AP
Bridge
Mesh

Note 1: After evaluating, AP Mode was selected to test and record in the report.

Note 2: 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 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Lee	24.9-26.4 / 65-71	Jul. 13, 2022~ Jul. 22, 2022
Radiated below 1GHz	03CH05-CB	Simmon Cheng	23.8-24.9 / 55-58	Jul. 21, 2022~ Jul. 29, 2022
Radiated above 1GHz	03CH02-CB	Stim Sung	23.8-24.9 / 55-58	Jul. 07, 2022~ Jul. 15, 2022
	03CH03-CB		24.4-25.5 / 55-58	
AC Conduction	CO01-CB	Dean Chang	22-23 / 52-53	Jul. 26, 2022~ Aug. 02, 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

Non-beamforming mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	19
5200MHz	21
5240MHz	21
5745MHz	19.5
5785MHz	23
5825MHz	22.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	19
5200MHz	21
5240MHz	20.5
5745MHz	19.5
5785MHz	22.5
5825MHz	22.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	17
5230MHz	19.5
5755MHz	20.5
5795MHz	20.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	16.5
5775MHz	18.5

Beamforming mode

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	19
5200MHz	21
5240MHz	20.5
5745MHz	19.5
5785MHz	22.5
5825MHz	22.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	17
5230MHz	19.5
5755MHz	20.5
5795MHz	20.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	16.5
5775MHz	18.5

Note:

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

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
2	EUT (2.4GHz +5GHz+ Zigbee) + PoE: Power by Pass Thru
3	EUT (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth2 / PoE IN
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT (2.4GHz +5GHz+ Bluetooth) + PoE: Power by Pass Thru
Mode 4 generated the worst test result, so it was recorded in this report.	

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

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
1	EUT in Z axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
2	EUT in Y axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
3	EUT in X axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT in Y axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Pass Thru
5	EUT in Y axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth2 / PoE IN
Mode 2 has been evaluated to be the worst case among Mode 1~5, thus measurement for Mode 6 will follow this same test mode.	
6	EUT in Y axis (2.4GHz +5GHz+ Bluetooth) + PoE: Power by Eth1 / PoE IN
For operating mode 2 is the worst case and it was record in this test report.	



Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT in Y axis (Bandedge)
2	EUT in Z axis (Harmonic)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + Zigbee
Refer to Sporton Test Report No.: FA270109 for Co-location RF Exposure Evaluation.	

Note: The PoE is for measurement only, would not be marketed.

The PoE information as below:

Support Unit	Brand	Model Name
PoE	Cambium	NET-P30-56IN

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

Others
RJ-45 cable*1: Non-shielded, 0.1m
Wall-mounted rack*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN EUT Eth1 NB	DELL	E6430	N/A
B	LAN EUT Eth2 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	PD Load	Cambium Networks	WRTQ 372AX	N/A
F	LAN Eth2 NB	DELL	E6430	N/A
G	Smart phone	Samusung	J2	N/A
H	PoE	Cambium	NET-P30-56IN	N/A

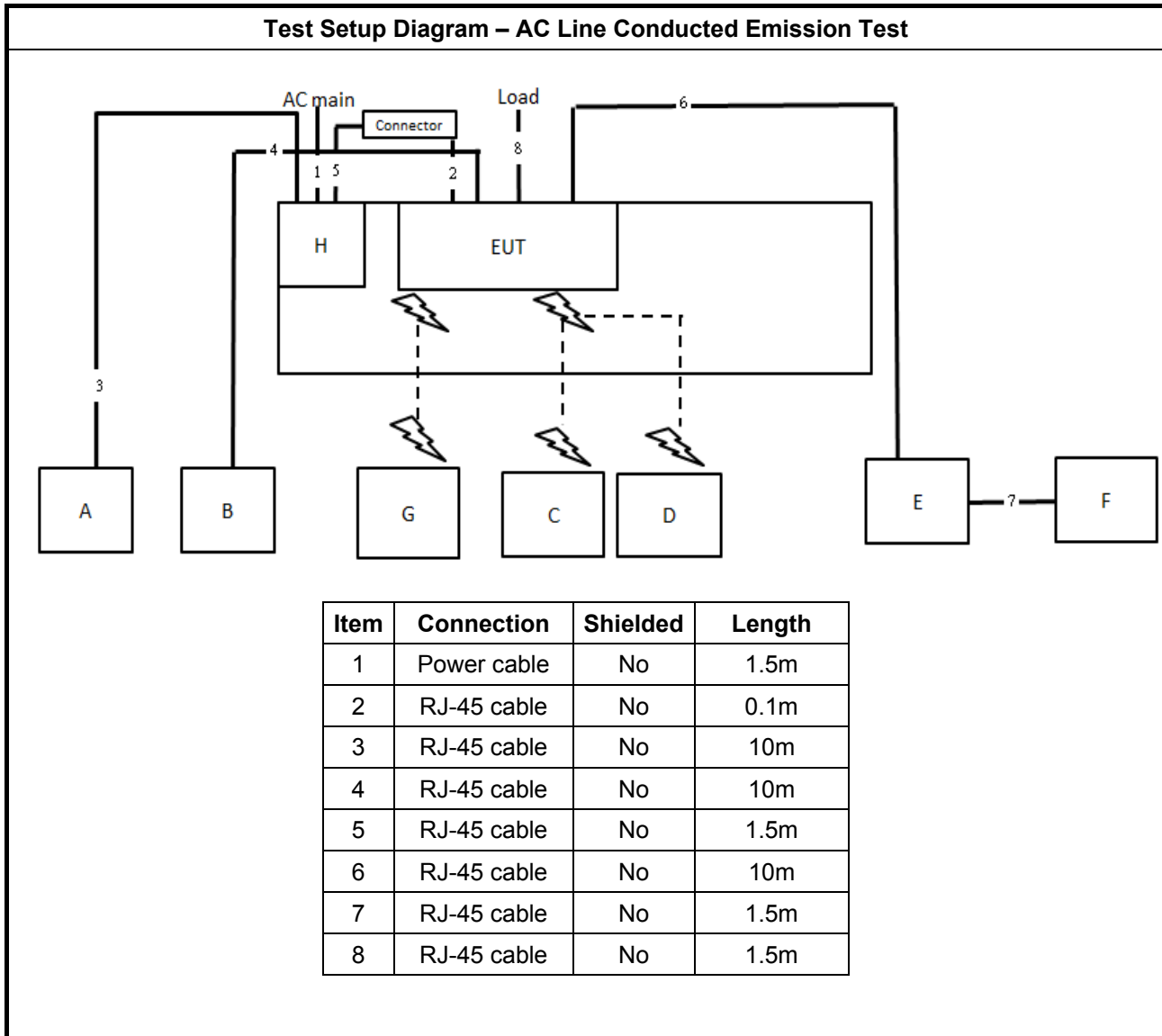
For Radiated (below 1GHz):

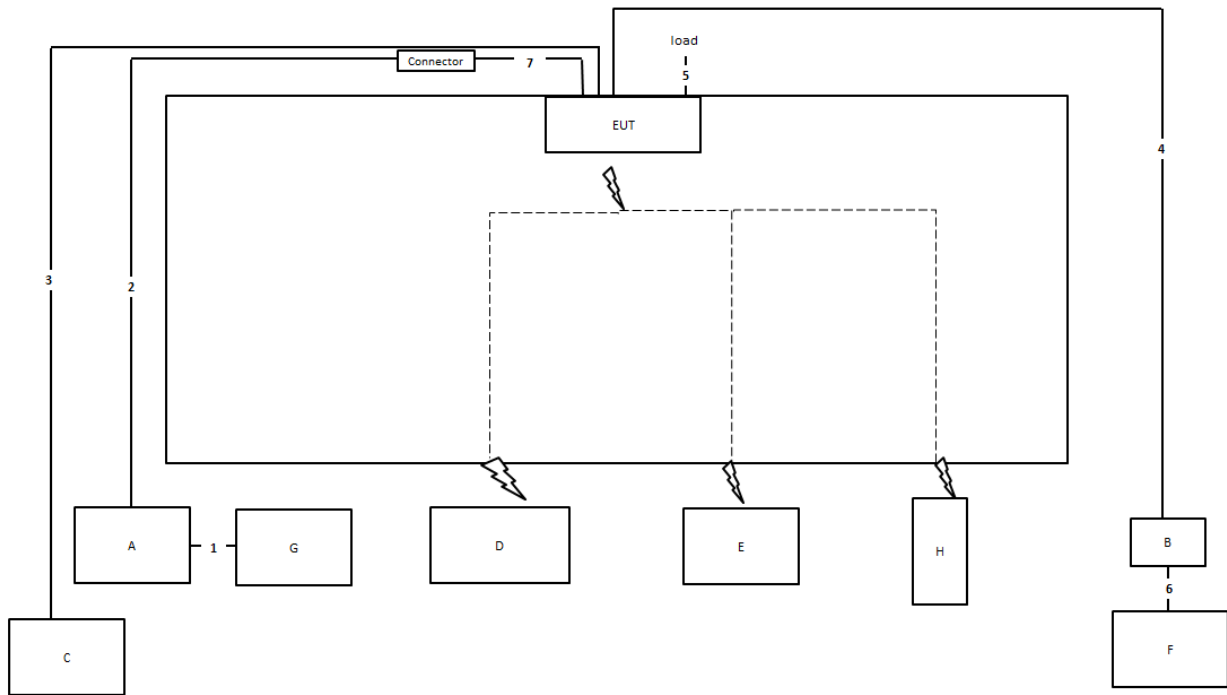
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	NET-P30-56IN	N/A
B	PD Load	Cambium Networks	WRTQ_372AX	N/A
C	NB (LAN)	DELL	E4300	N/A
D	NB (WIFI 2.4G)	DELL	E4300	N/A
E	NB (WIFI 5G)	DELL	E4300	N/A
F	NB (PD LAN)	DELL	E4300	N/A
G	NB (PoE)	DELL	E4300	N/A
H	Bulb	Bitc	TWM6027P25-NWW1008H	N/A

For Radiated (above 1GHz) and RF Conducted:

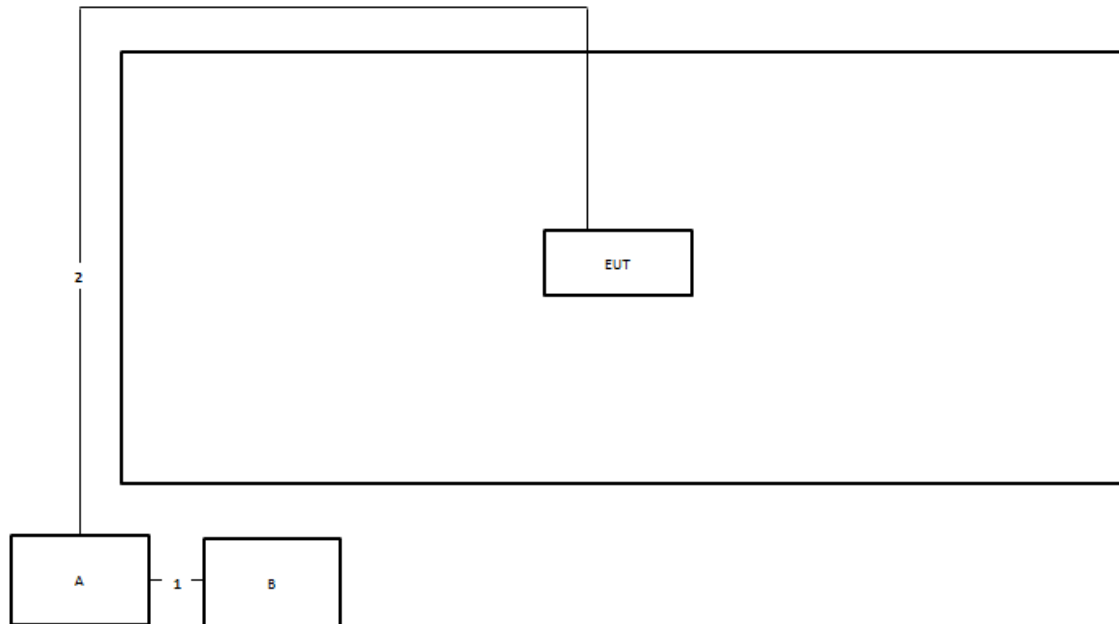
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	NET-P30-56IN	N/A
B	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.0m
5	RJ-45 cable	No	1.5m
6	RJ-45 cable	No	1.5m
7	RJ-45 cable	No	0.1m

Test Setup Diagram - Radiated Test > 1GHz


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

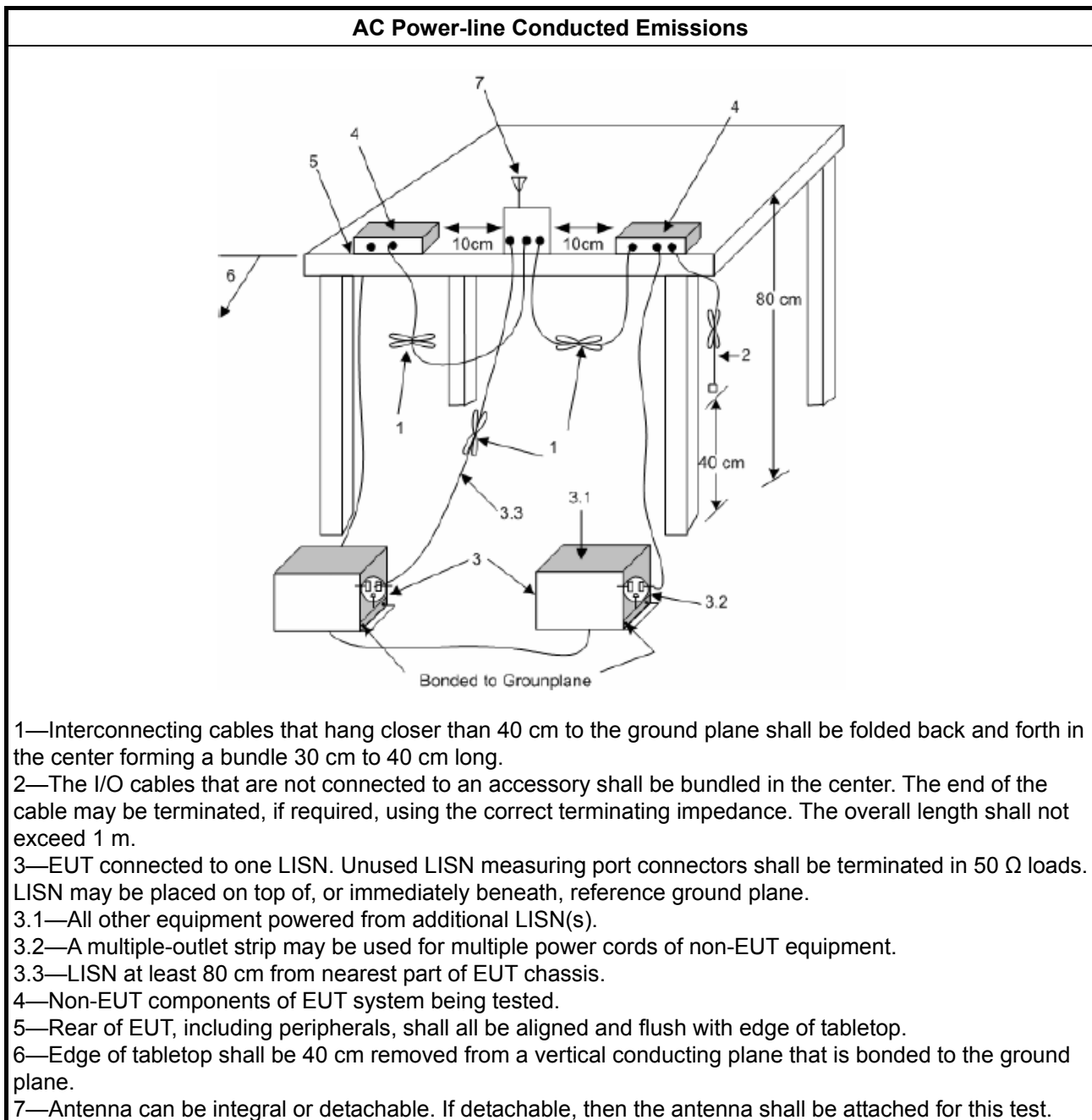
3.1.2 Measuring Instruments

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



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq$ 500kHz.
☐	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

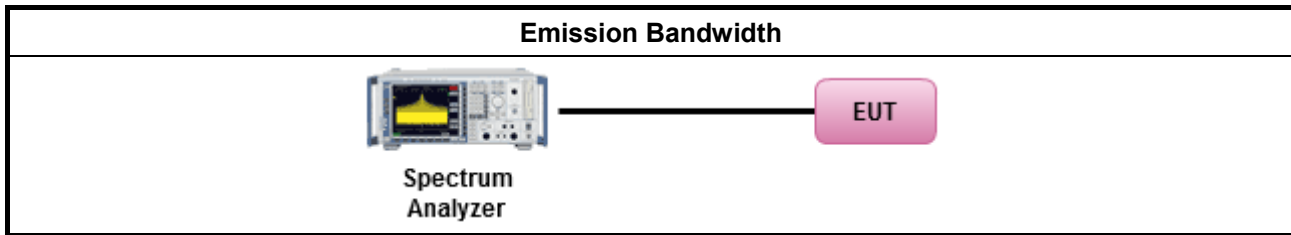
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as 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



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
Maximum EIRP Limit	
☐ For the 5.85-5.895 GHz band:	
☐	- Indoor AP & subordinate device < 36 dBm - Client device < 30 dBm
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the

lesser of 1 W.

P_{Out} = maximum conducted output power in dBm,

G_{TX} = the maximum transmitting antenna directional gain in dBi.

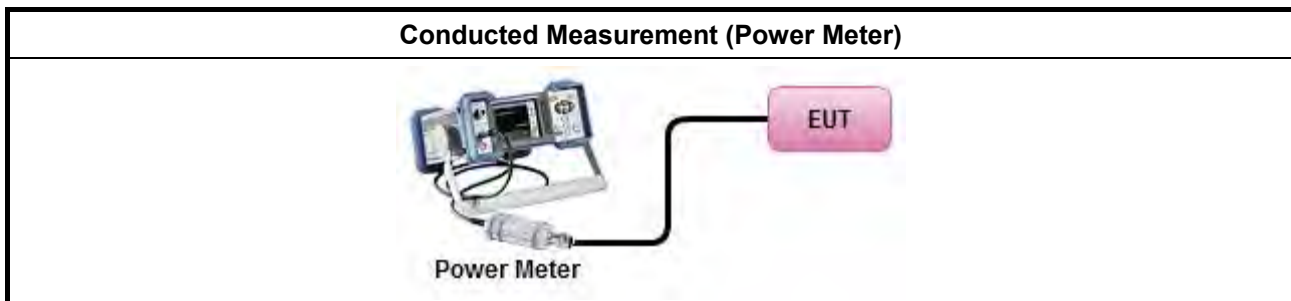
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$
☐	For radiated measurement.
	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
EIRP Power Spectral Density Limit	
☐ For the 5.85-5.895 GHz band:	
	- Indoor AP & subordinate device < 20dBm/MHz - Client device < 14dBm/MHz
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output	



power shall be used to determine the power spectral density. And power spectral density in dBm/MHz
 G_{TX} = the maximum transmitting antenna directional gain in dBi.

3.4.2 Measuring Instruments

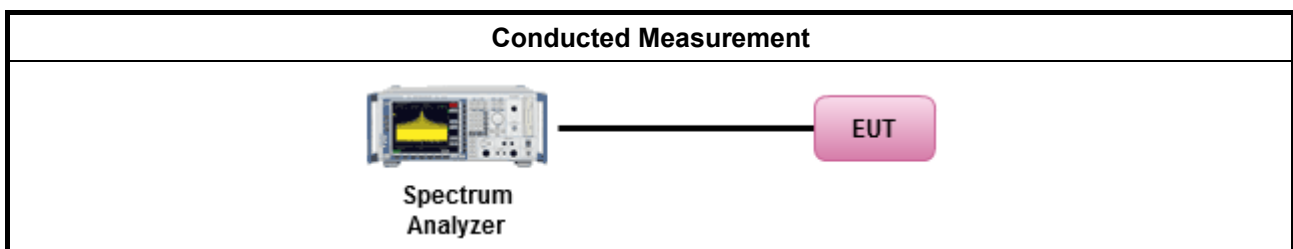
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm])	

Test Method	
	$EIRP_{total} = PPSD_{total} + DG$
☐	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.
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

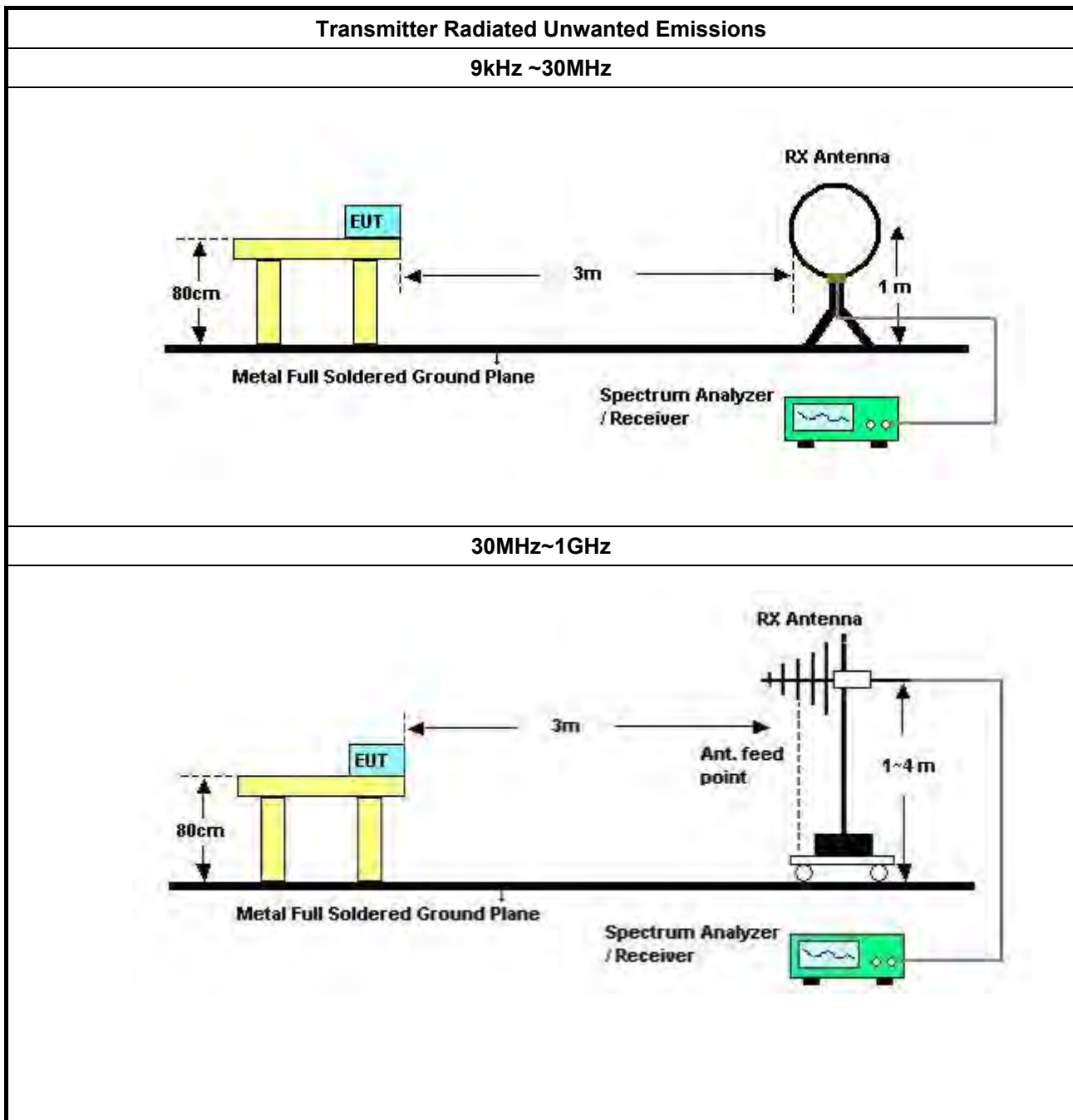
Refer a test equipment and calibration data table in this test report.

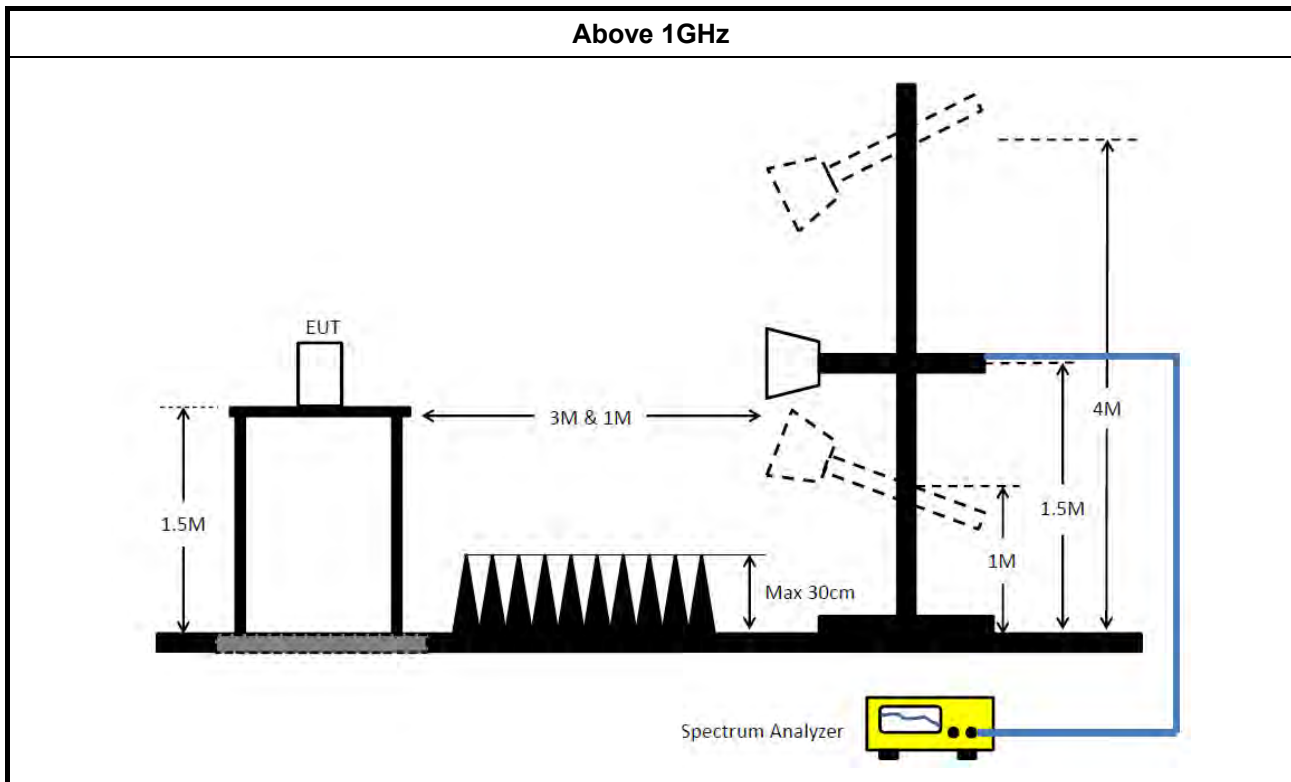


3.5.3 Test Procedures

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 $\geq$ 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 $\geq$ 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





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	May 18, 2022	May 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 (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-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	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	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	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 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. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
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	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



Conducted Emissions at Powerline

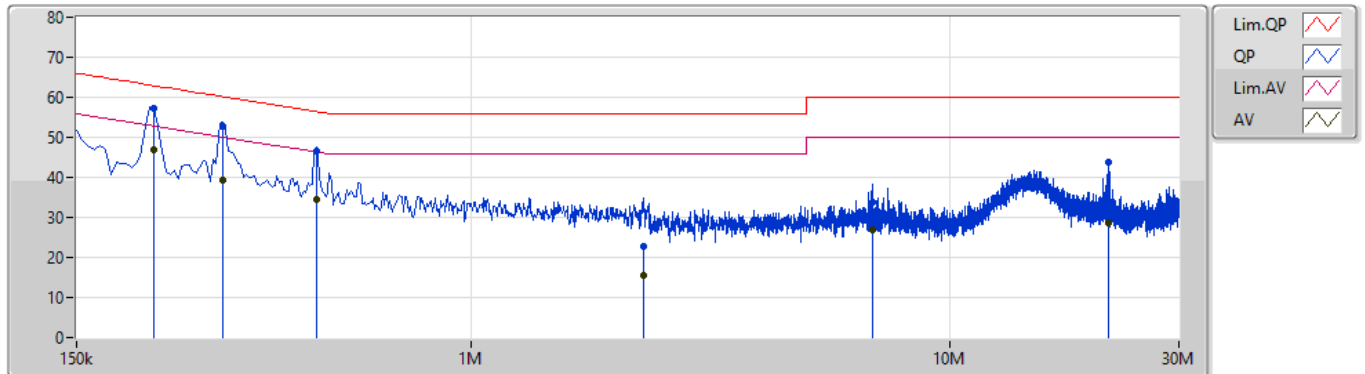
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 4	Pass	QP	217.5k	57.87	62.92	-5.05	Neutral

Mode 4

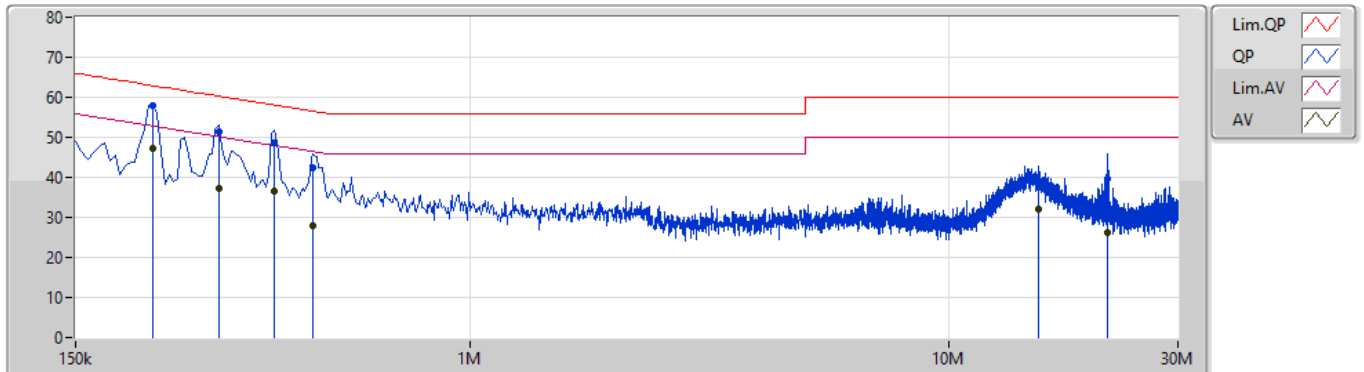
02/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	57.34	62.92	-5.58	9.99	Line	"Worst"	47.35	0.06	0.04	9.89			
AV	217.5k	46.81	52.92	-6.11	9.99	Line	-	36.82	0.06	0.04	9.89			
QP	303k	52.82	60.17	-7.35	10.00	Line	-	42.82	0.06	0.05	9.89			
AV	303k	39.25	50.17	-10.92	10.00	Line	-	29.25	0.06	0.05	9.89			
QP	474k	46.40	56.44	-10.04	10.01	Line	-	36.39	0.06	0.06	9.89			
AV	474k	34.56	46.44	-11.88	10.01	Line	-	24.55	0.06	0.06	9.89			
QP	2.297M	22.72	56.00	-33.28	10.08	Line	-	12.64	0.10	0.09	9.89			
AV	2.297M	15.47	46.00	-30.53	10.08	Line	-	5.39	0.10	0.09	9.89			
QP	6.878M	33.69	60.00	-26.31	10.22	Line	-	23.47	0.18	0.14	9.90			
AV	6.878M	26.95	50.00	-23.05	10.22	Line	-	16.73	0.18	0.14	9.90			
QP	21.35M	43.81	60.00	-16.19	10.52	Line	-	33.29	0.32	0.24	9.96			
AV	21.35M	28.78	50.00	-21.22	10.52	Line	-	18.26	0.32	0.24	9.96			

Mode 4

02/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	57.87	62.92	-5.05	10.00	Neutral	"Worst"	47.87	0.07	0.04	9.89			
AV	217.5k	47.34	52.92	-5.58	10.00	Neutral	-	37.34	0.07	0.04	9.89			
QP	298.5k	51.22	60.28	-9.06	10.01	Neutral	-	41.21	0.07	0.05	9.89			
AV	298.5k	37.18	50.28	-13.10	10.01	Neutral	-	27.17	0.07	0.05	9.89			
QP	388.5k	48.50	58.10	-9.60	10.02	Neutral	-	38.48	0.07	0.06	9.89			
AV	388.5k	36.57	48.10	-11.53	10.02	Neutral	-	26.55	0.07	0.06	9.89			
QP	469.5k	42.56	56.52	-13.96	10.02	Neutral	-	32.54	0.07	0.06	9.89			
AV	469.5k	27.88	46.52	-18.64	10.02	Neutral	-	17.86	0.07	0.06	9.89			
QP	15.342M	37.99	60.00	-22.01	10.39	Neutral	-	27.60	0.28	0.17	9.94			
AV	15.342M	32.17	50.00	-17.83	10.39	Neutral	-	21.78	0.28	0.17	9.94			
QP	21.404M	39.61	60.00	-20.39	10.50	Neutral	-	29.11	0.30	0.24	9.96			
AV	21.404M	26.31	50.00	-23.69	10.50	Neutral	-	15.81	0.30	0.24	9.96			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	32.25M	18.111M	18M1D1D	18.93M	16.312M
802.11ax HEW20_Nss1,(MCS0)_2TX	34.47M	19.58M	19M6D1D	20.82M	18.801M
802.11ax HEW40_Nss1,(MCS0)_2TX	72.78M	39.04M	39M0D1D	40.02M	37.541M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.36M	76.882M	76M9D1D	81.36M	76.642M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	33.883M	33M9D1D	14.37M	16.312M
802.11ax HEW20_Nss1,(MCS0)_2TX	15.78M	31.484M	31M5D1D	7.74M	18.801M
802.11ax HEW40_Nss1,(MCS0)_2TX	34.92M	51.334M	51M3D1D	26.22M	37.901M
802.11ax HEW80_Nss1,(MCS0)_2TX	69.84M	77.601M	77M6D1D	42M	76.882M

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

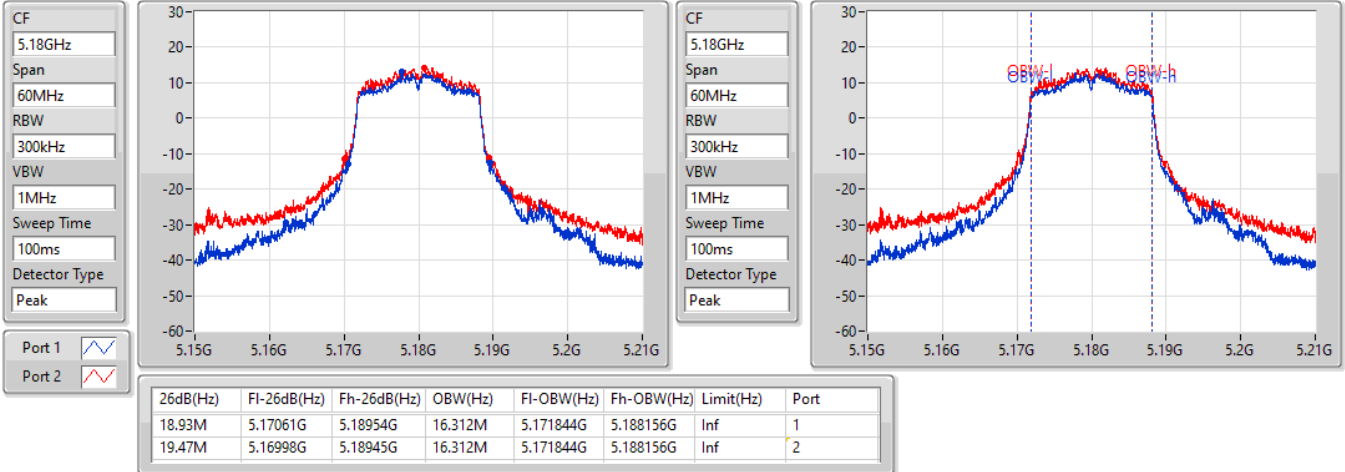
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	18.93M	16.312M	19.47M	16.312M
5200MHz	Pass	Inf	21.09M	16.462M	31.77M	17.511M
5240MHz	Pass	Inf	19.65M	16.342M	32.25M	18.111M
5745MHz	Pass	500k	15.12M	16.312M	15.12M	16.372M
5785MHz	Pass	500k	14.37M	24.558M	16.26M	33.883M
5825MHz	Pass	500k	15.06M	25.277M	16.32M	28.876M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.82M	18.801M	20.97M	18.861M
5200MHz	Pass	Inf	26.85M	18.981M	34.35M	19.58M
5240MHz	Pass	Inf	20.85M	18.831M	34.47M	19.34M
5745MHz	Pass	500k	7.74M	18.801M	13.74M	18.951M
5785MHz	Pass	500k	14.82M	23.178M	13.68M	27.436M
5825MHz	Pass	500k	15.78M	25.547M	15.09M	31.484M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.601M	40.14M	37.541M
5230MHz	Pass	Inf	40.02M	37.601M	72.78M	39.04M
5755MHz	Pass	500k	34.92M	37.901M	26.22M	47.856M
5795MHz	Pass	500k	29.16M	38.021M	32.46M	51.334M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	76.642M	81.36M	76.882M
5775MHz	Pass	500k	42M	76.882M	69.84M	77.601M

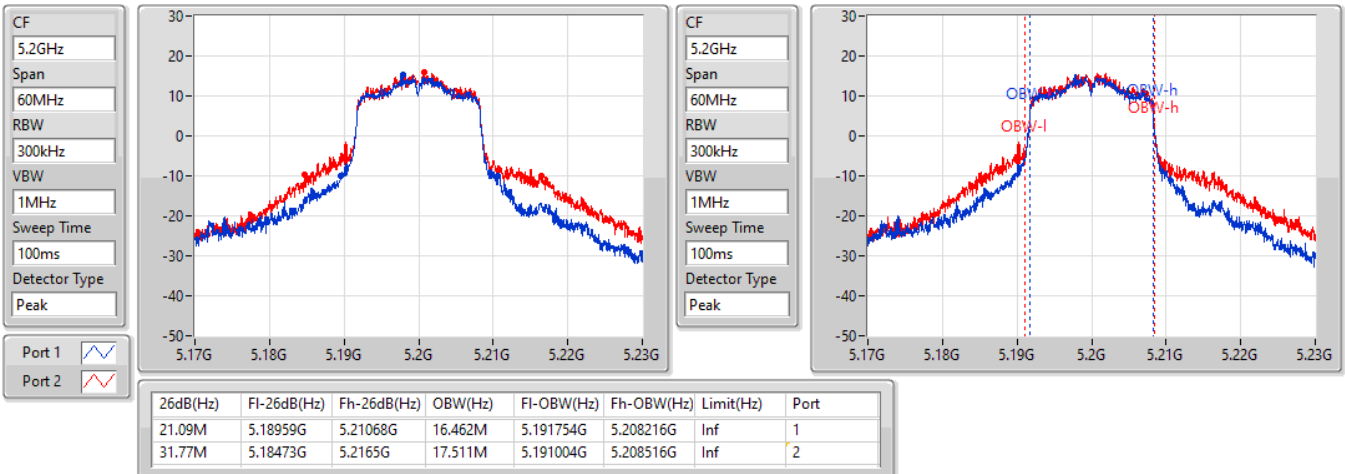
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

13/07/2022


802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

13/07/2022

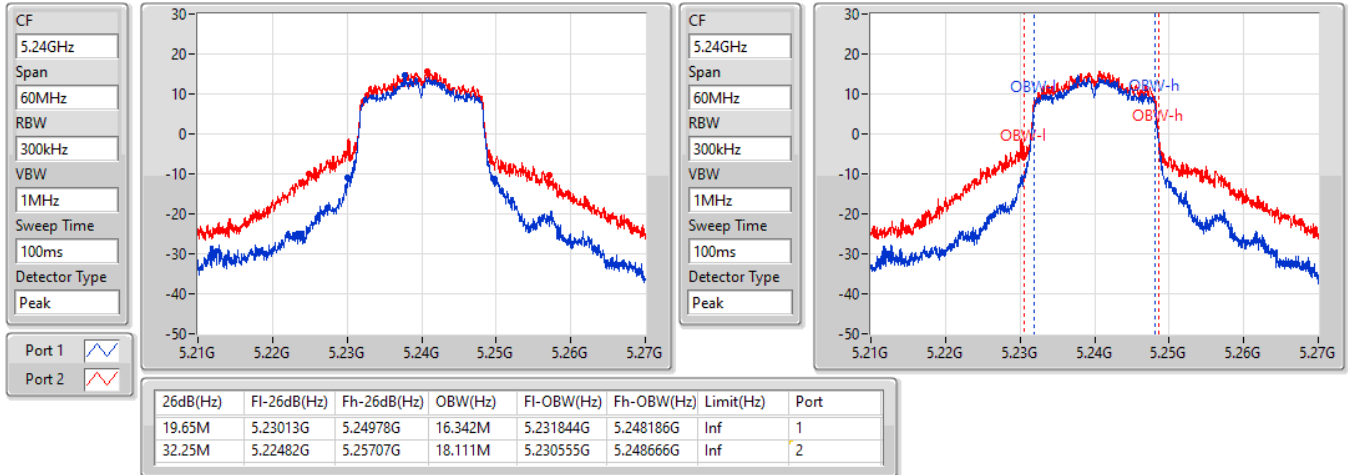


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

13/07/2022

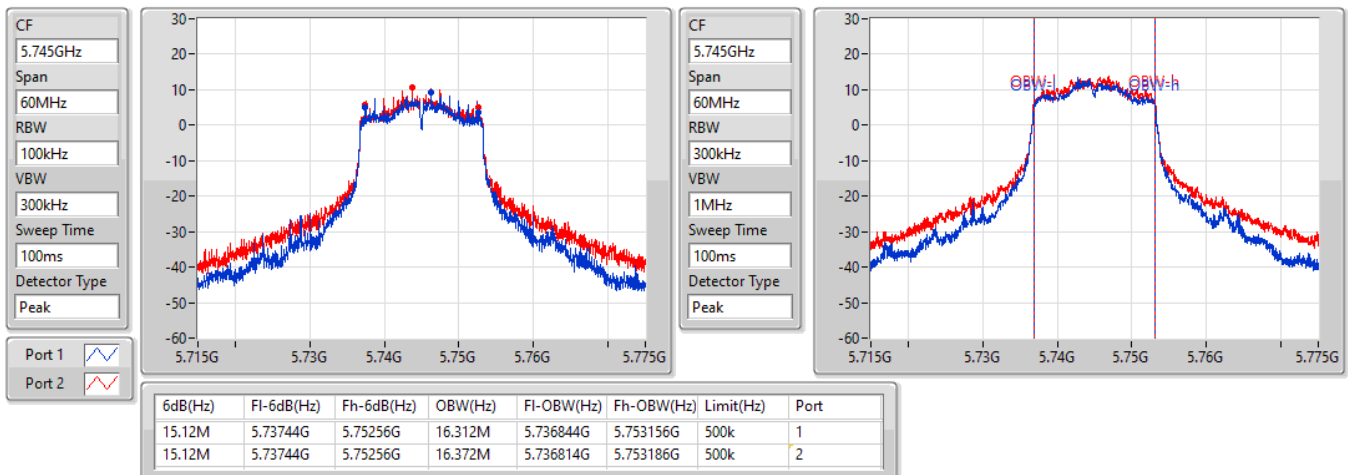


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

13/07/2022

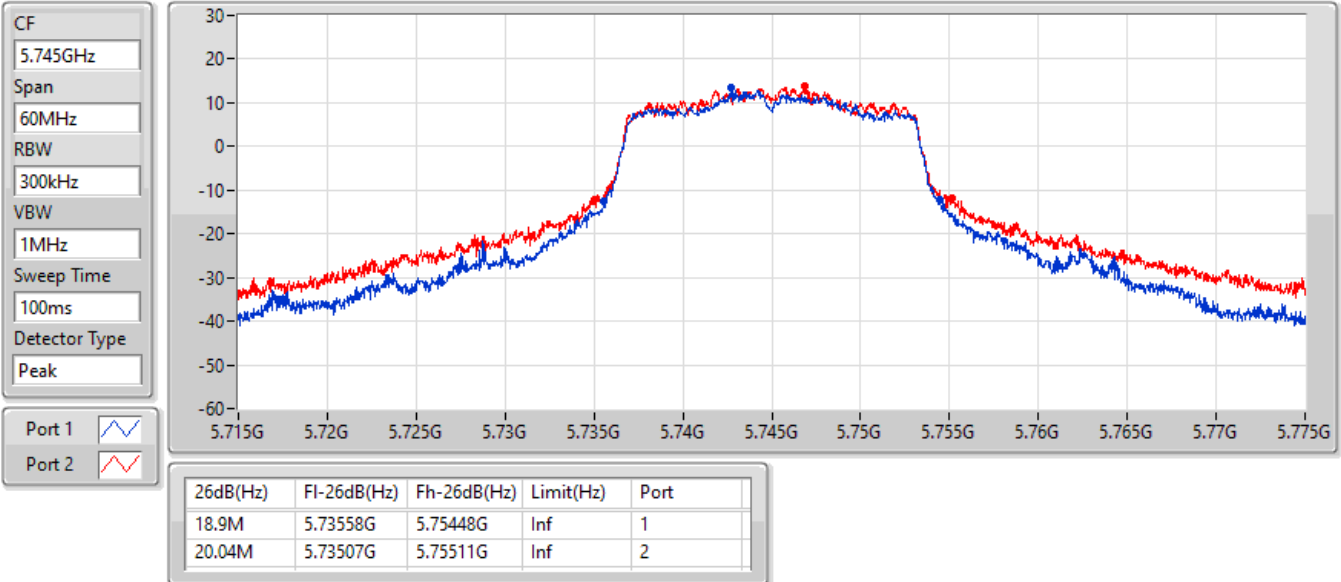


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

13/07/2022

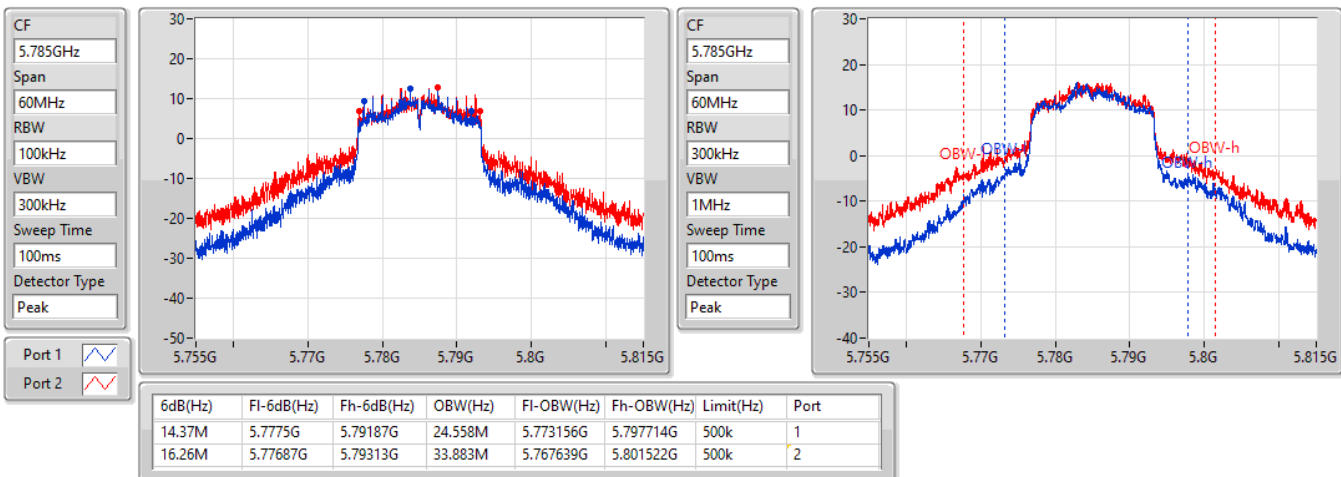


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

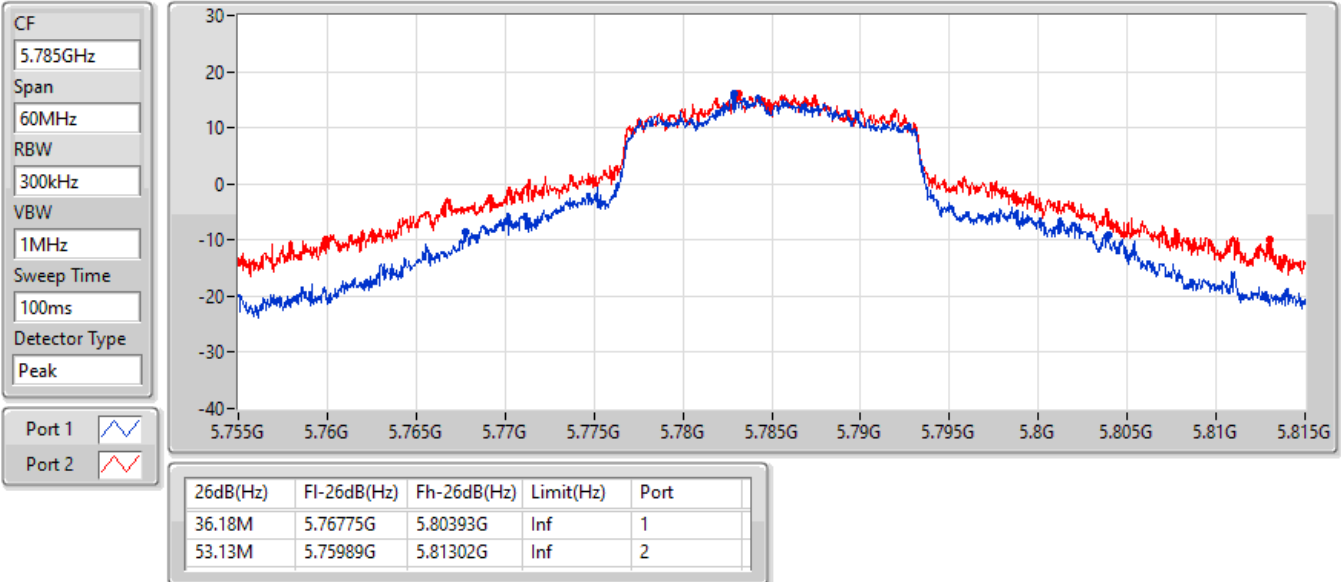
13/07/2022



802.11a_Nss1,(6Mbps)_2TX

EBW
5785MHz

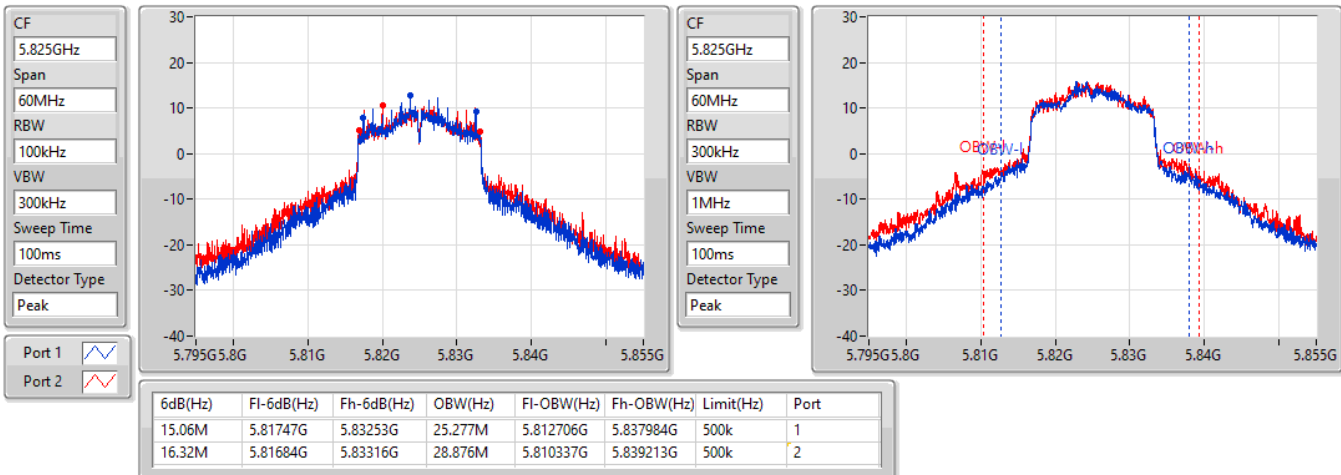
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802.11a_Nss1,(6Mbps)_2TX

EBW
5825MHz

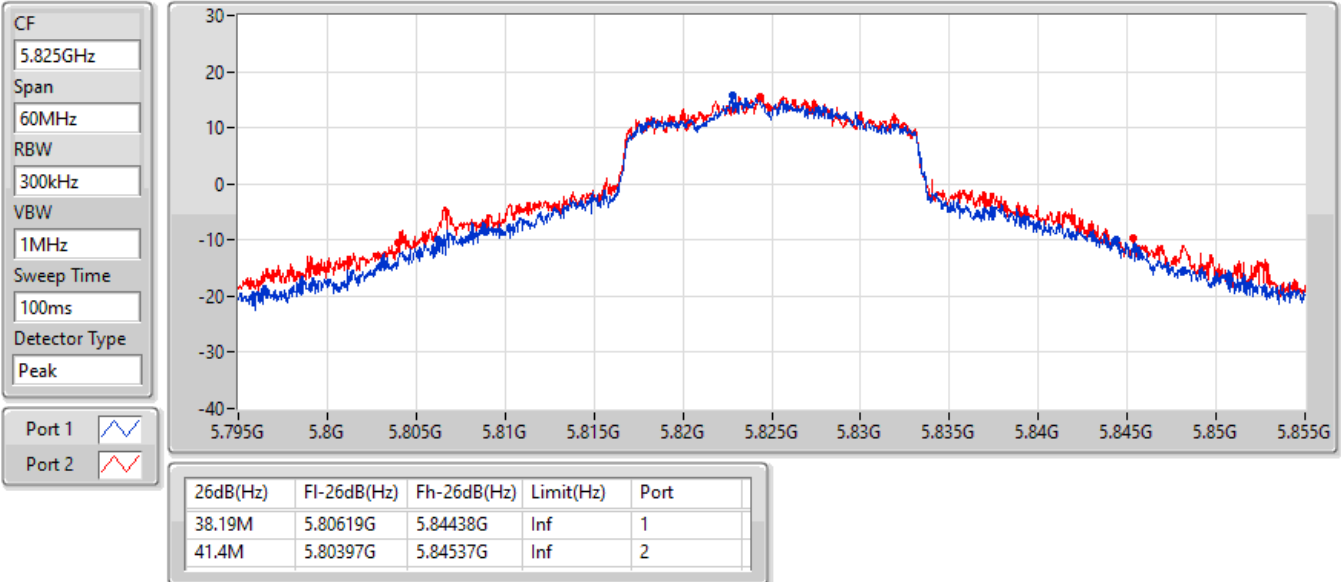
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802.11a_Nss1,(6Mbps)_2TX

EBW
5825MHz

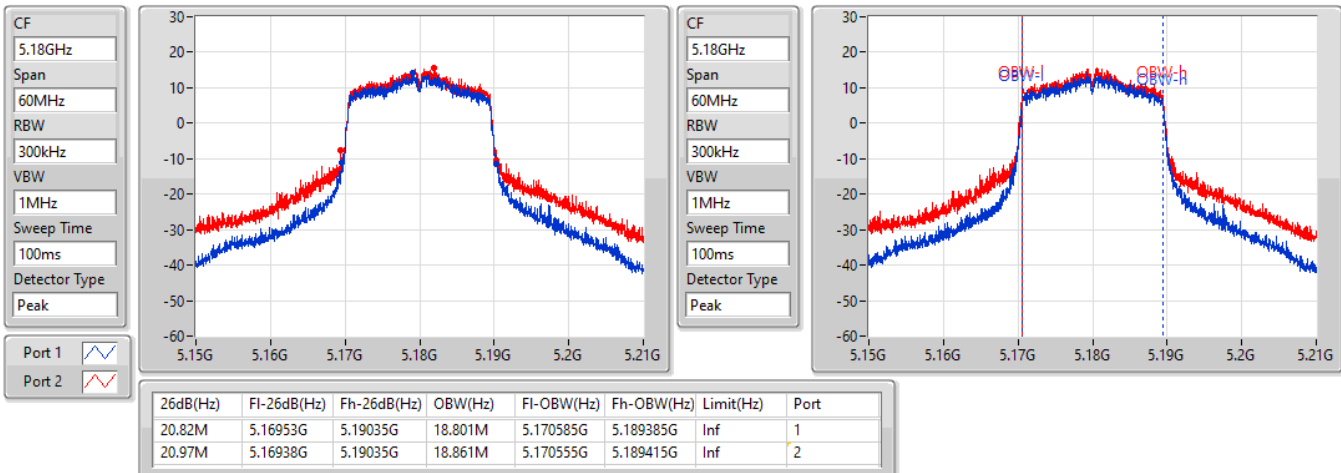
13/07/2022



802.11ax HEW20_Nss1,(MCS0)_2TX

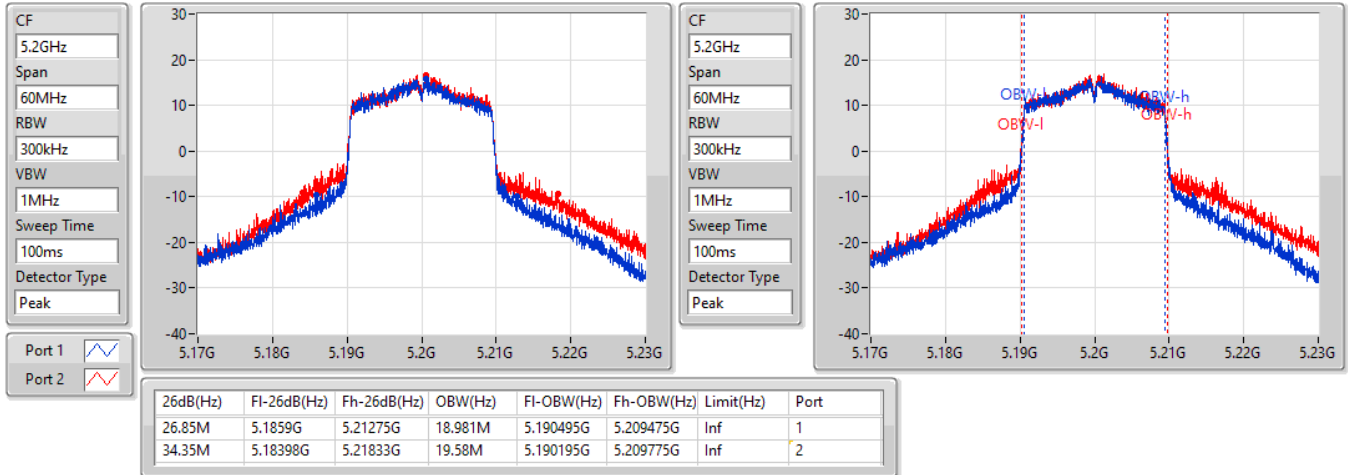
EBW
5180MHz

13/07/2022

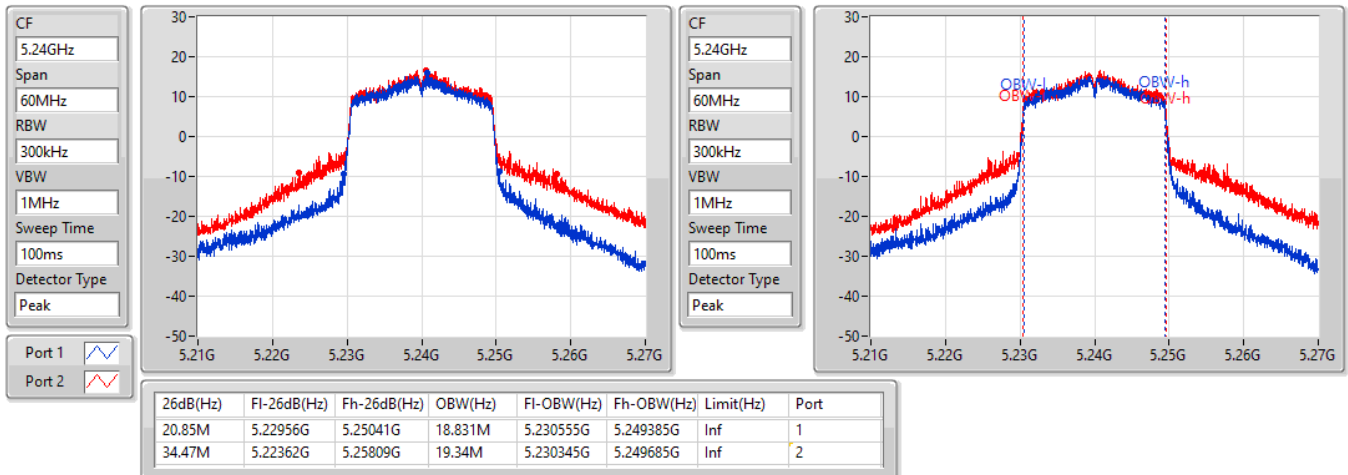


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5200MHz

13/07/2022


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5240MHz

13/07/2022

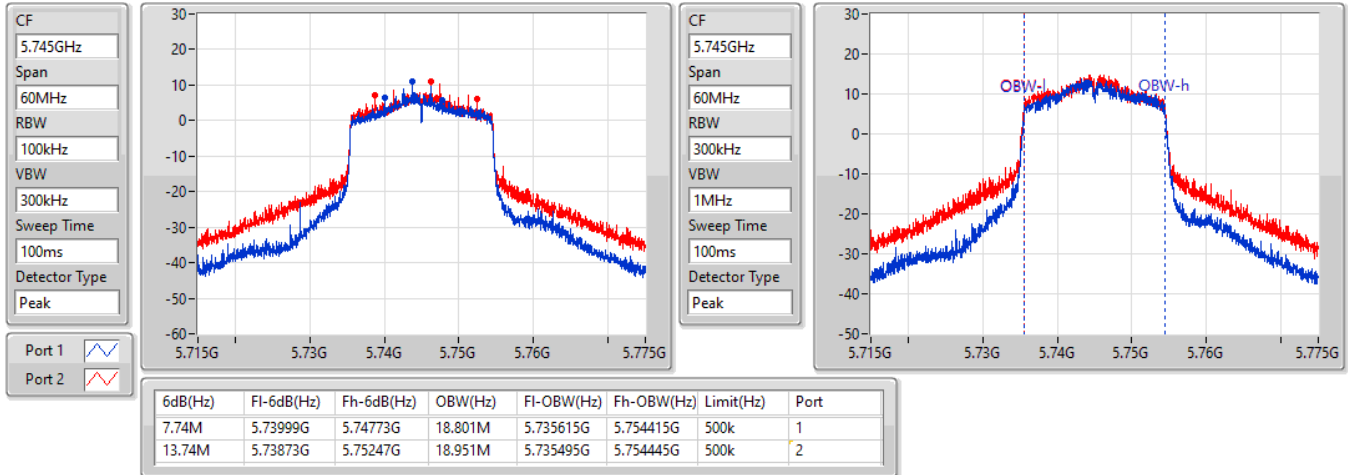


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

13/07/2022

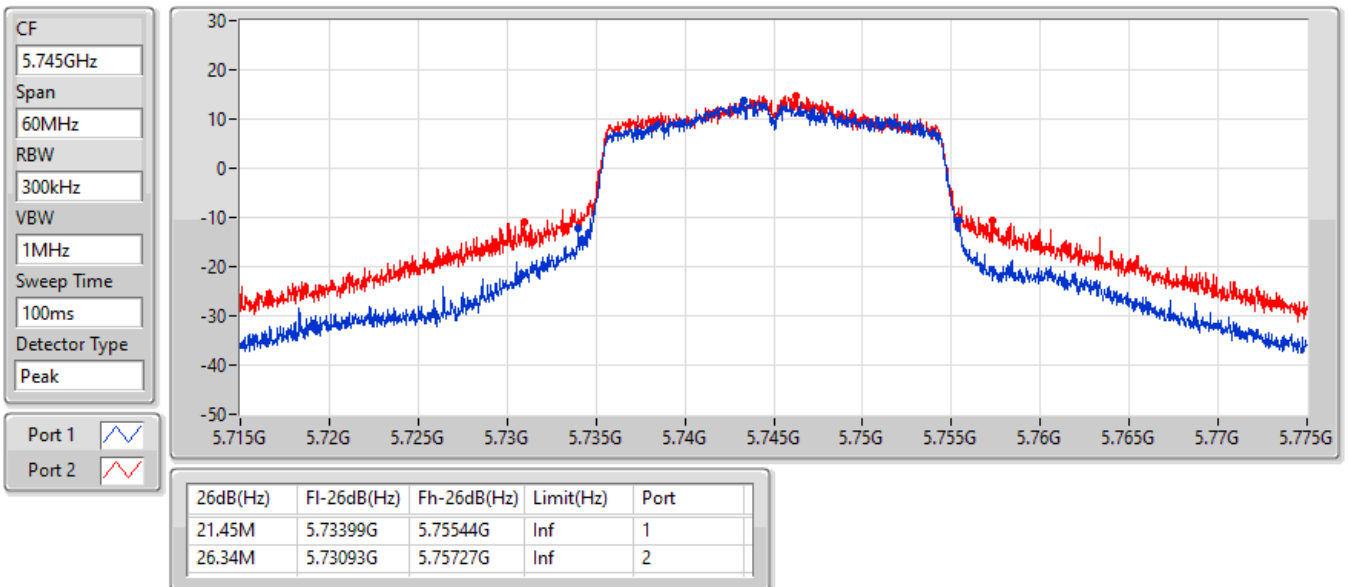


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

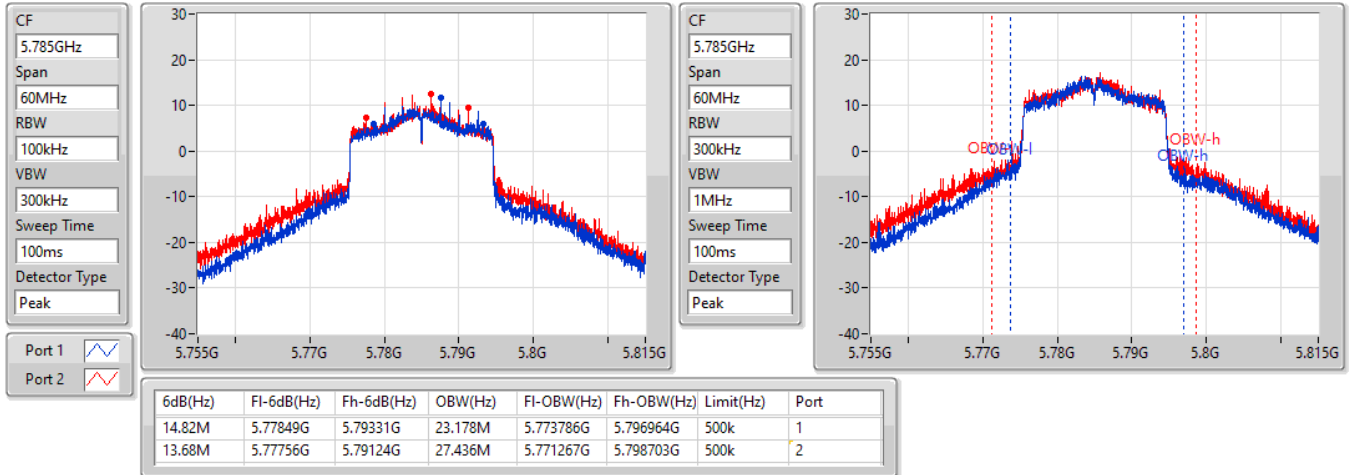
5745MHz

13/07/2022

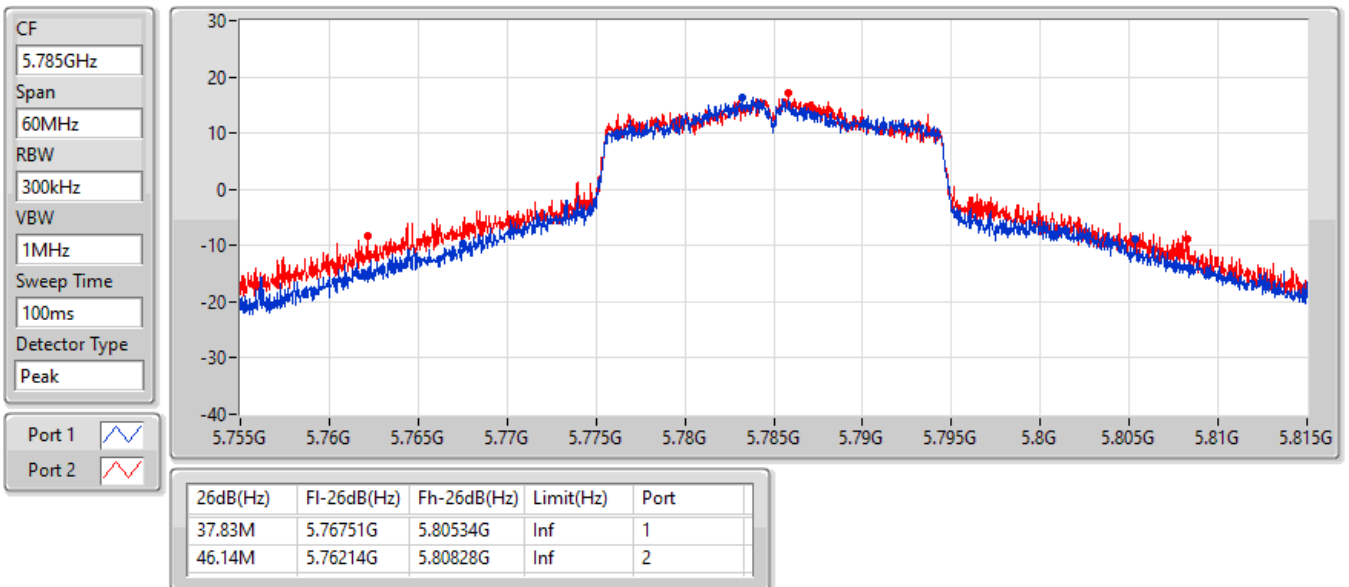


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5785MHz

13/07/2022

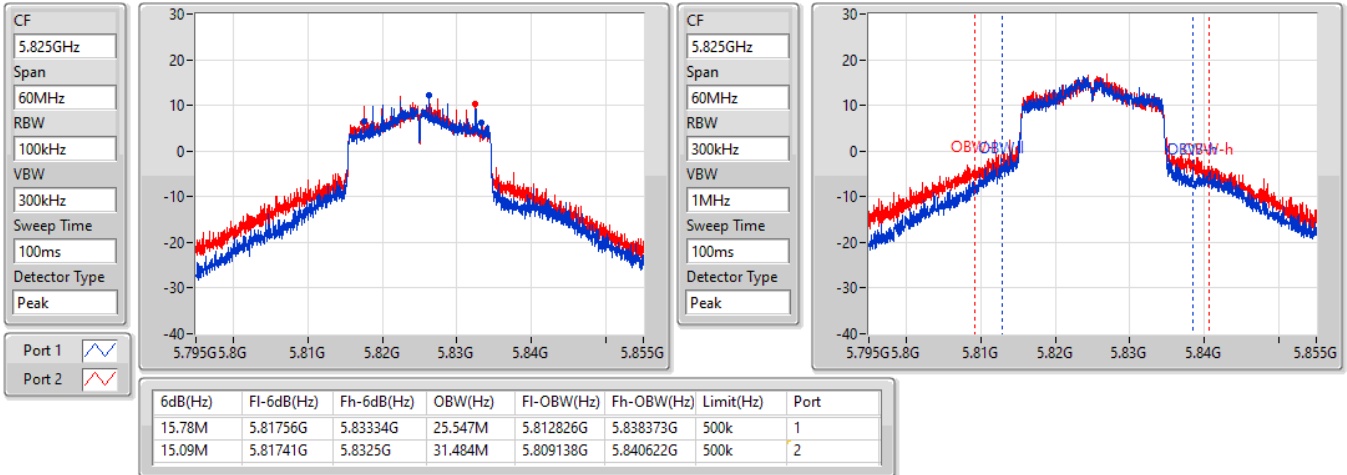

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5785MHz

13/07/2022

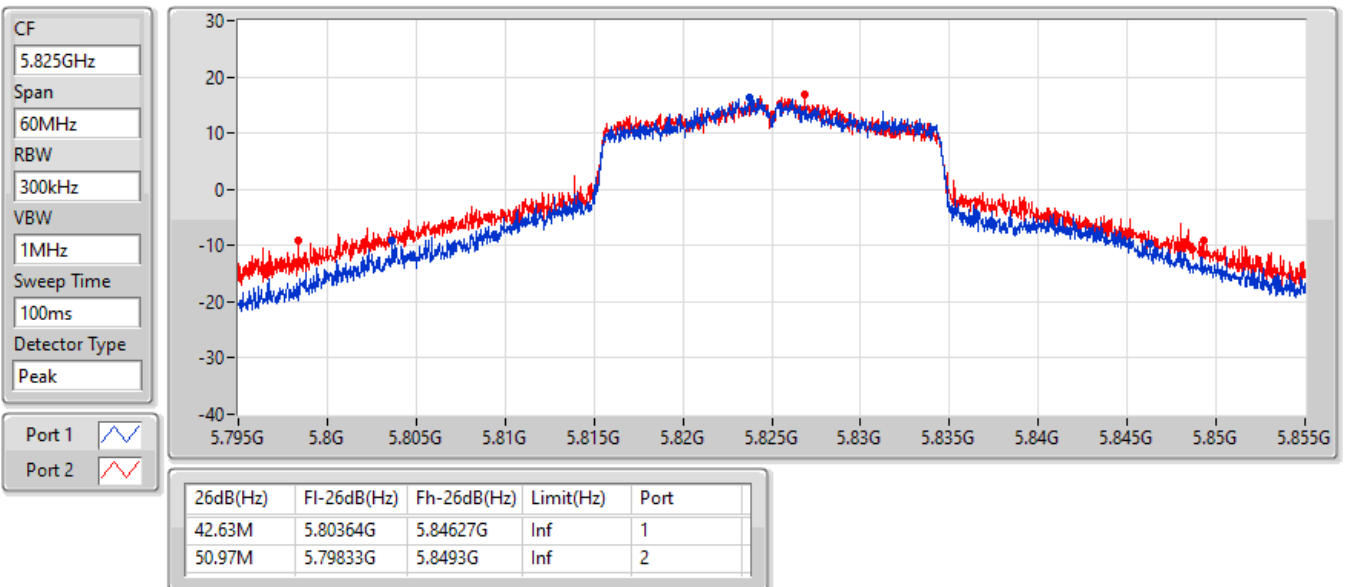


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5825MHz

13/07/2022

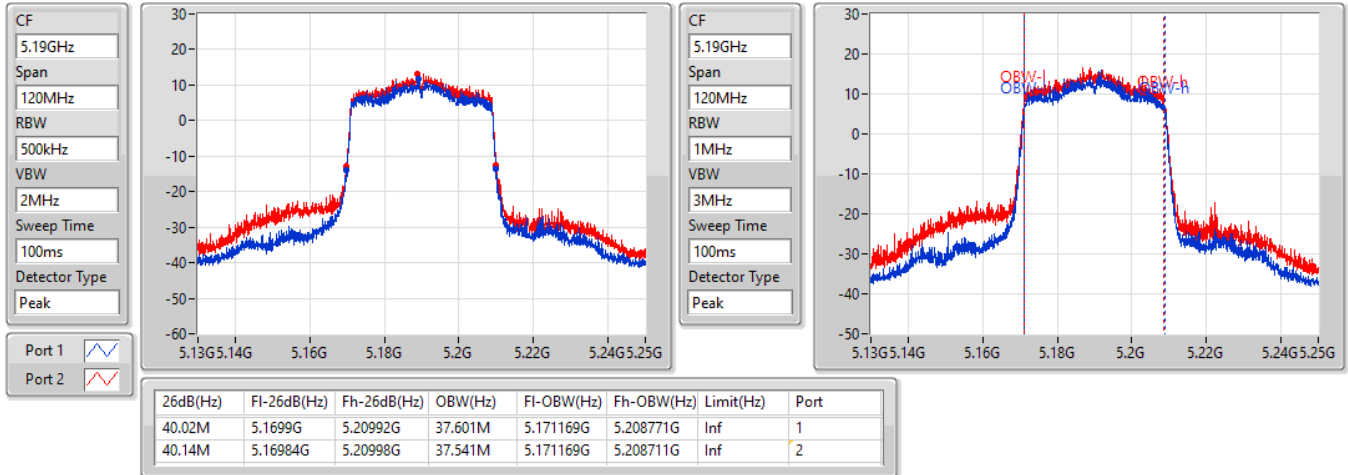

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5825MHz

13/07/2022

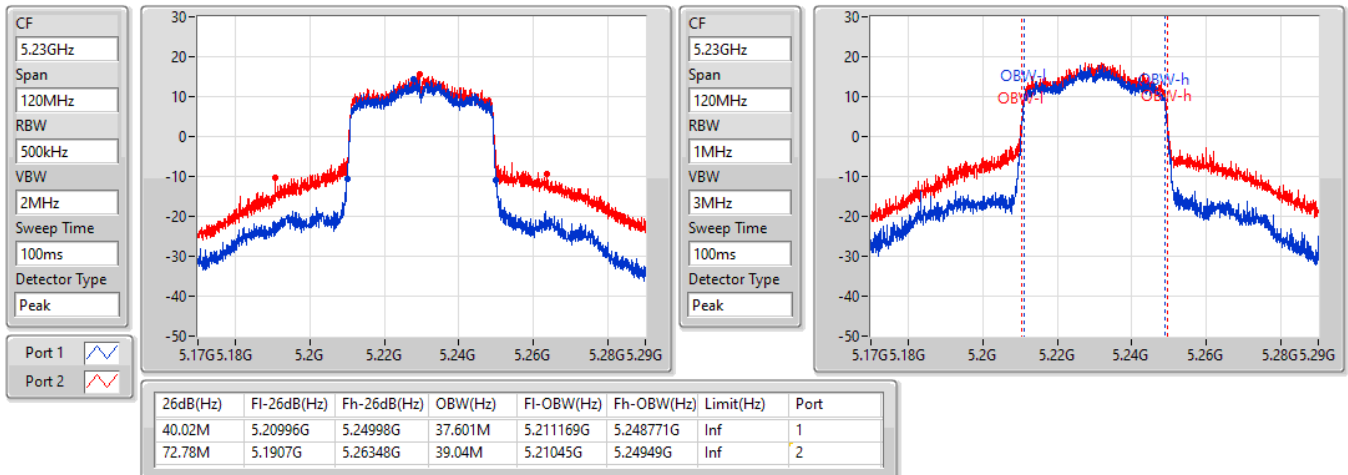


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5190MHz

13/07/2022

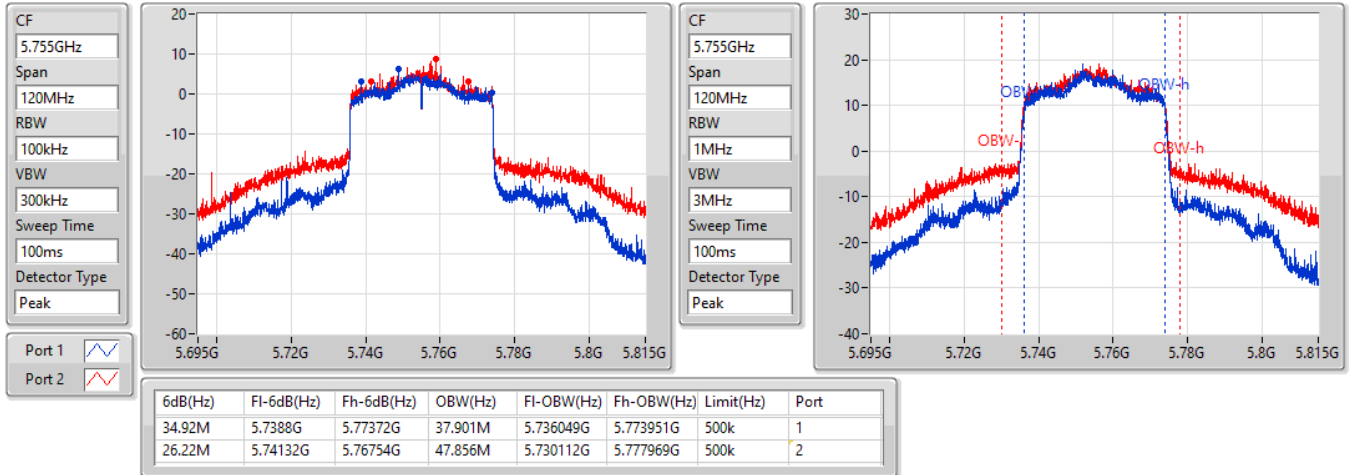

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5230MHz

13/07/2022

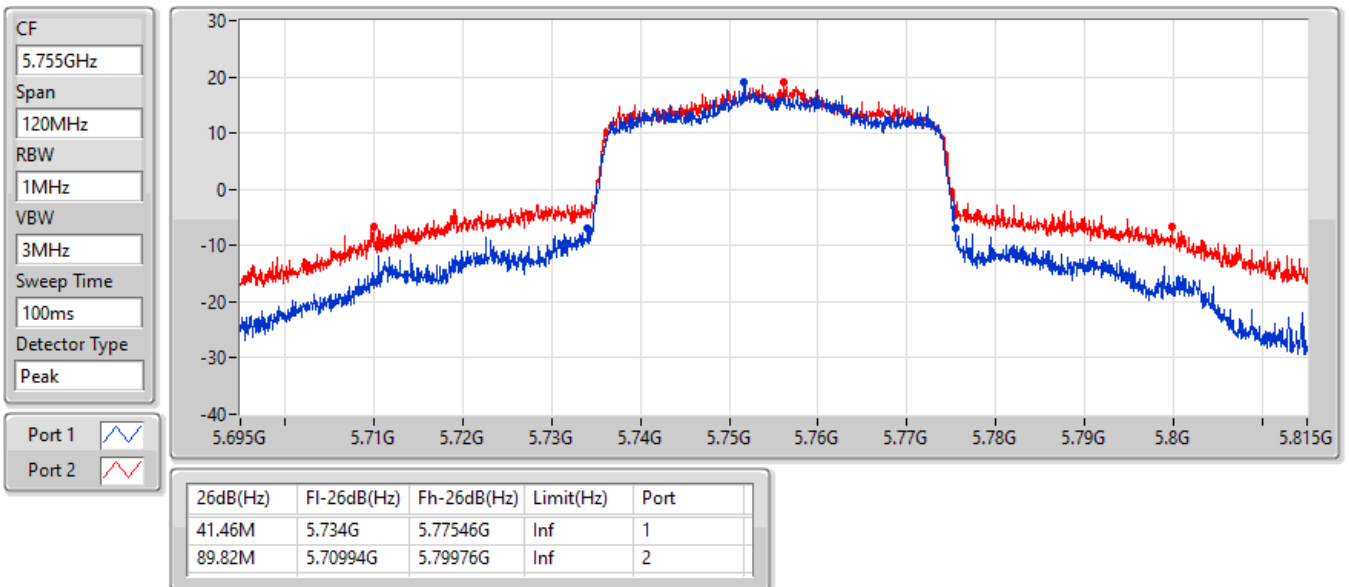


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

13/07/2022

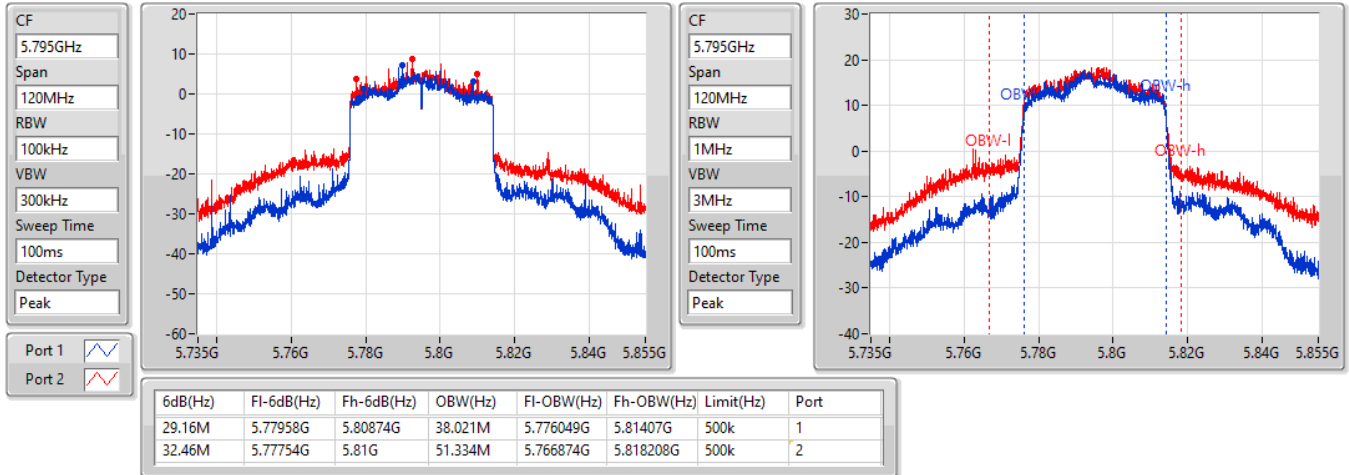

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

13/07/2022

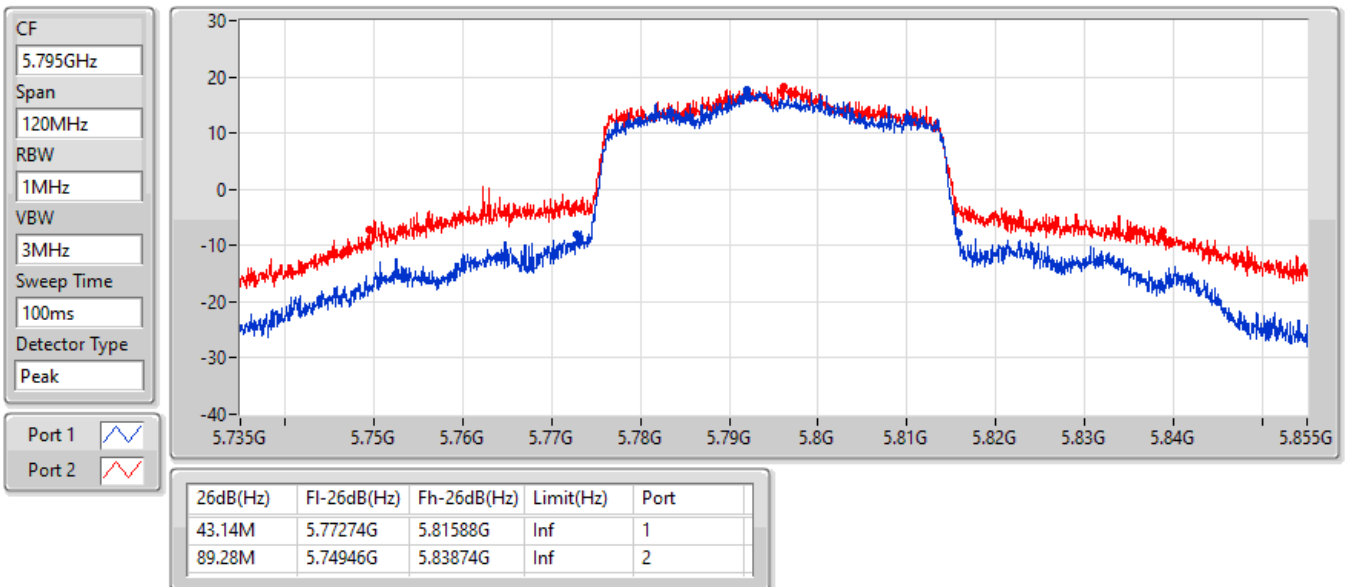


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

13/07/2022


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

13/07/2022

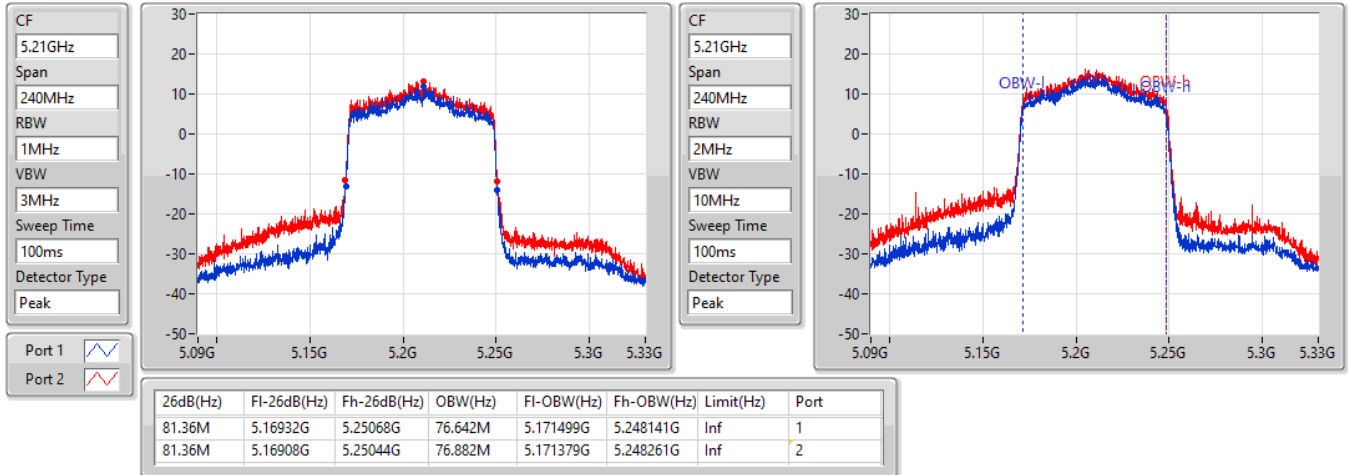


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

13/07/2022

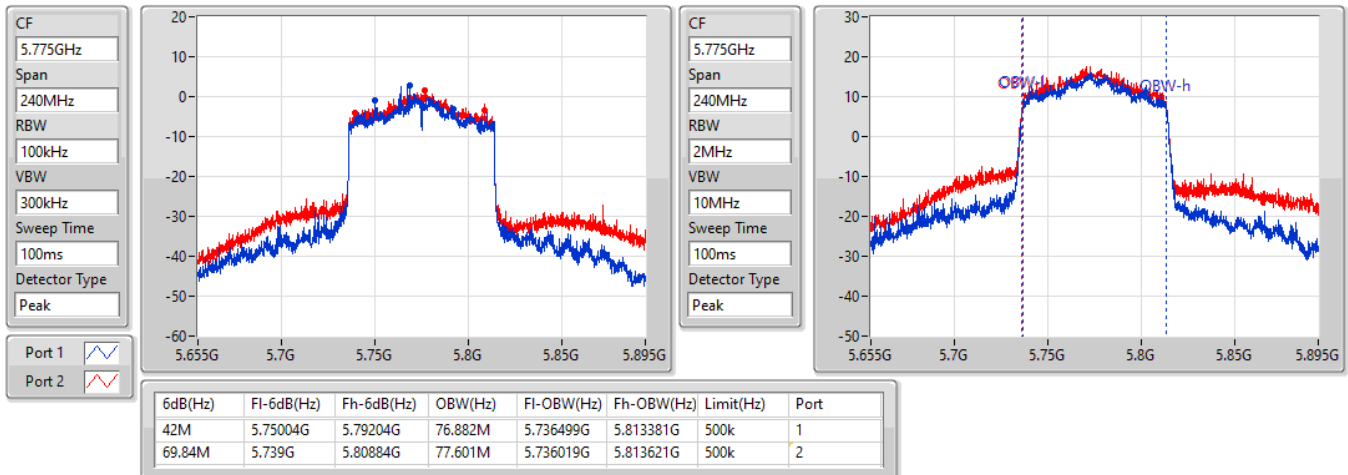


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

13/07/2022

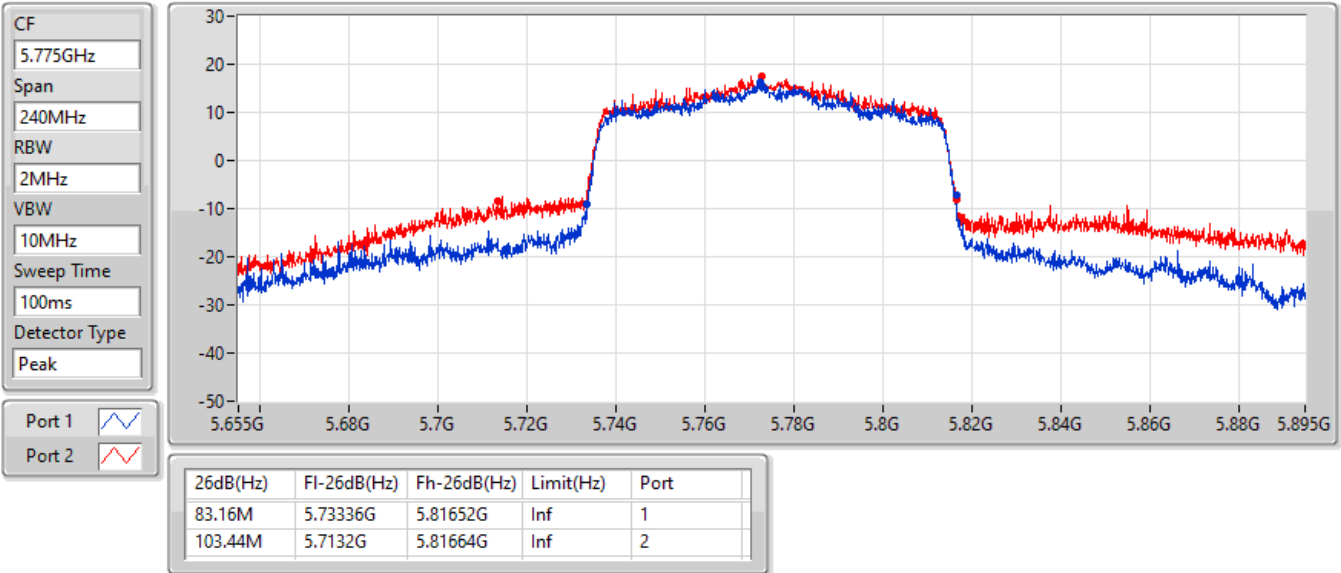


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

13/07/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	24.45	0.27861
802.11ax HEW20_Nss1,(MCS0)_2TX	24.30	0.26915
802.11ax HEW40_Nss1,(MCS0)_2TX	22.94	0.19679
802.11ax HEW80_Nss1,(MCS0)_2TX	19.66	0.09247
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.01	0.31696
802.11ax HEW20_Nss1,(MCS0)_2TX	24.51	0.28249
802.11ax HEW40_Nss1,(MCS0)_2TX	23.29	0.21330
802.11ax HEW80_Nss1,(MCS0)_2TX	20.98	0.12531

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.56	18.97	20.06	22.56	30.00
5200MHz	Pass	5.56	21.32	21.55	24.45	30.00
5240MHz	Pass	5.56	20.61	21.58	24.13	30.00
5745MHz	Pass	5.51	19.01	19.67	22.36	30.00
5785MHz	Pass	5.51	21.76	22.23	25.01	30.00
5825MHz	Pass	5.51	21.52	21.74	24.64	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.56	18.81	20.07	22.50	30.00
5200MHz	Pass	5.56	21.13	21.45	24.30	30.00
5240MHz	Pass	5.56	20.43	21.34	23.92	30.00
5745MHz	Pass	5.51	18.93	19.71	22.35	30.00
5785MHz	Pass	5.51	21.37	21.58	24.49	30.00
5825MHz	Pass	5.51	21.39	21.61	24.51	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.56	16.45	17.93	20.26	30.00
5230MHz	Pass	5.56	19.33	20.45	22.94	30.00
5755MHz	Pass	5.51	19.89	20.63	23.29	30.00
5795MHz	Pass	5.51	19.58	20.53	23.09	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.56	15.81	17.36	19.66	30.00
5775MHz	Pass	5.51	17.35	18.52	20.98	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.30	0.26915
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.94	0.19679
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.66	0.09247
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.51	0.28249
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.29	0.21330
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.98	0.12531



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.52	18.81	20.07	22.50	27.48
5200MHz	Pass	8.52	21.13	21.45	24.30	27.48
5240MHz	Pass	8.52	20.43	21.34	23.92	27.48
5745MHz	Pass	8.51	18.93	19.71	22.35	27.49
5785MHz	Pass	8.51	21.37	21.58	24.49	27.49
5825MHz	Pass	8.51	21.39	21.61	24.51	27.49
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.52	16.45	17.93	20.26	27.48
5230MHz	Pass	8.52	19.33	20.45	22.94	27.48
5755MHz	Pass	8.51	19.89	20.63	23.29	27.49
5795MHz	Pass	8.51	19.58	20.53	23.09	27.49
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.52	15.81	17.36	19.66	27.48
5775MHz	Pass	8.51	17.35	18.52	20.98	27.49

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	14.14
802.11ax HEW20_Nss1,(MCS0)_2TX	13.17
802.11ax HEW40_Nss1,(MCS0)_2TX	9.16
802.11ax HEW80_Nss1,(MCS0)_2TX	3.22
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.17
802.11ax HEW20_Nss1,(MCS0)_2TX	11.84
802.11ax HEW40_Nss1,(MCS0)_2TX	7.98
802.11ax HEW80_Nss1,(MCS0)_2TX	3.15

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.52	8.61	10.10	12.35	14.48
5200MHz	Pass	8.52	10.99	11.36	14.14	14.48
5240MHz	Pass	8.52	10.17	11.15	13.66	14.48
5745MHz	Pass	8.51	7.54	8.01	10.57	27.49
5785MHz	Pass	8.51	10.19	10.46	13.17	27.49
5825MHz	Pass	8.51	10.06	9.98	12.75	27.49
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.52	7.81	9.18	11.49	14.48
5200MHz	Pass	8.52	10.02	10.51	13.17	14.48
5240MHz	Pass	8.52	9.22	10.21	12.73	14.48
5745MHz	Pass	8.51	6.31	7.33	9.65	27.49
5785MHz	Pass	8.51	8.91	9.11	11.82	27.49
5825MHz	Pass	8.51	8.94	9.02	11.84	27.49
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.52	2.72	4.39	6.58	14.48
5230MHz	Pass	8.52	5.57	6.73	9.16	14.48
5755MHz	Pass	8.51	4.81	5.54	7.98	27.49
5795MHz	Pass	8.51	4.83	5.55	7.98	27.49
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.52	-0.42	0.78	3.22	14.48
5775MHz	Pass	8.51	-0.20	0.67	3.15	27.49

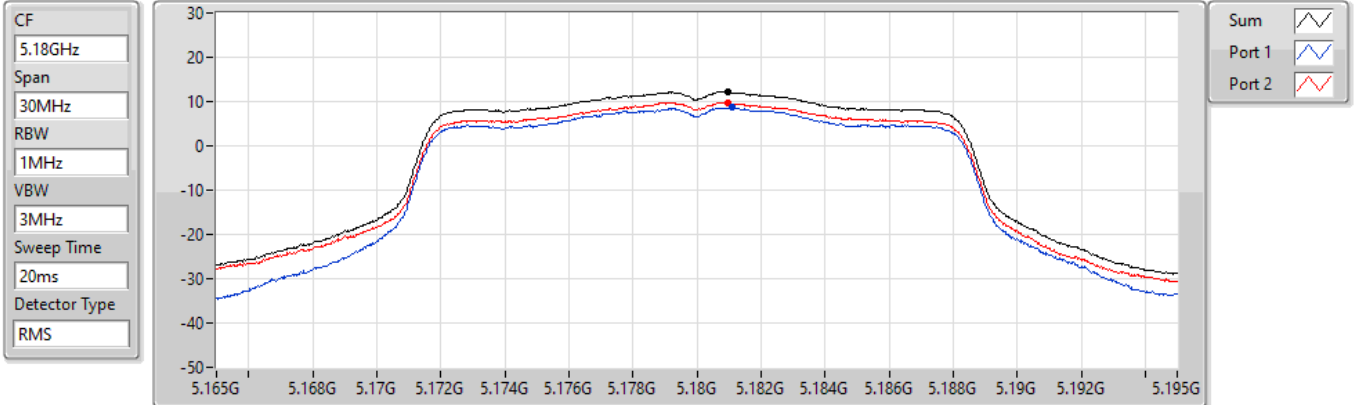
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

13/07/2022



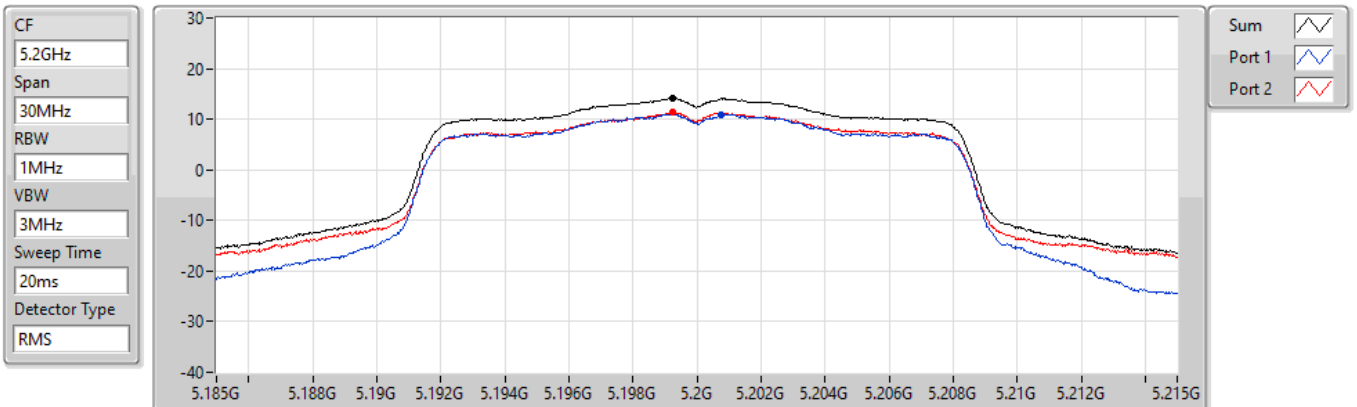
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.22	12.22	8.61	9.82

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

13/07/2022



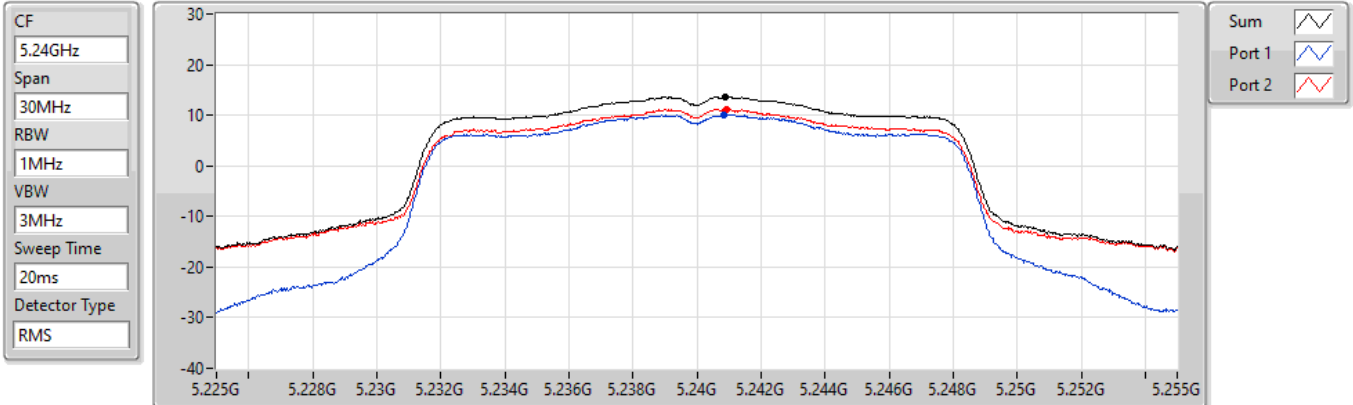
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.14	14.14	10.99	11.36

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

13/07/2022

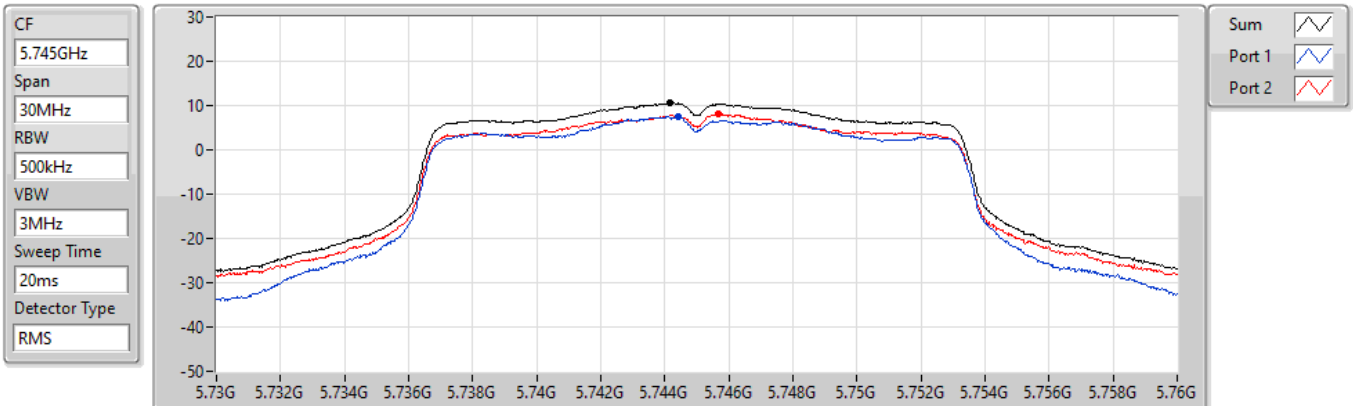


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

13/07/2022

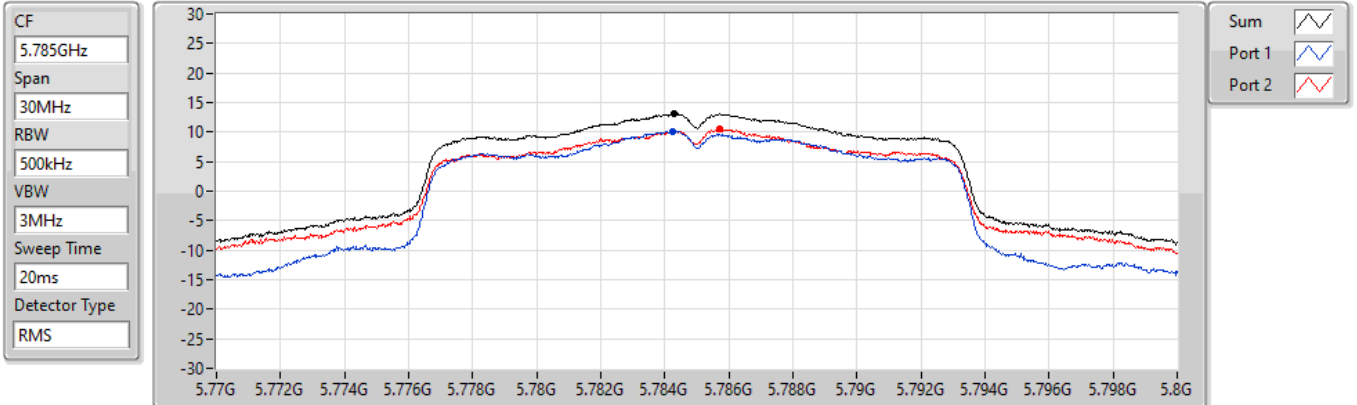


802.11a_Nss1,(6Mbps)_2TX

5785MHz

PSD

13/07/2022

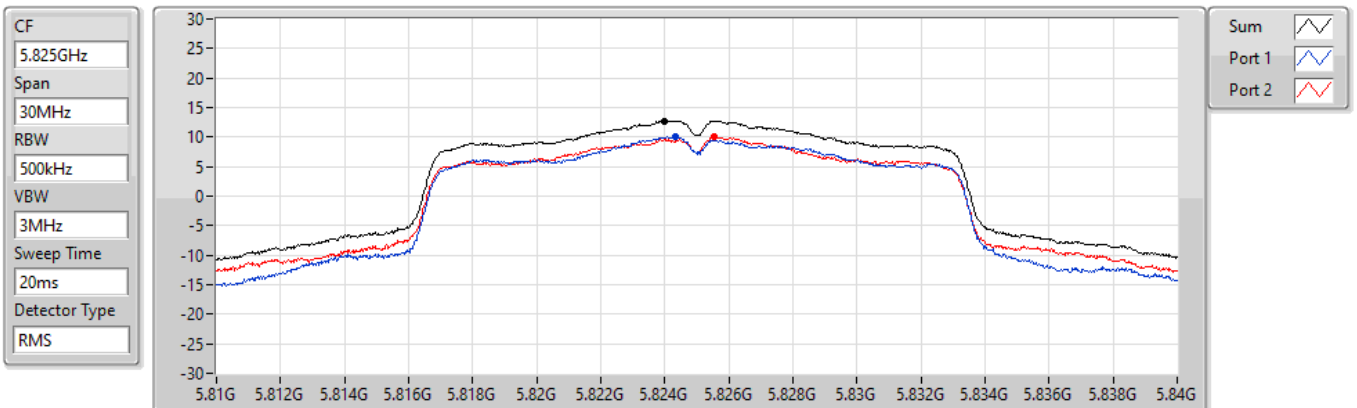


802.11a_Nss1,(6Mbps)_2TX

5825MHz

PSD

13/07/2022

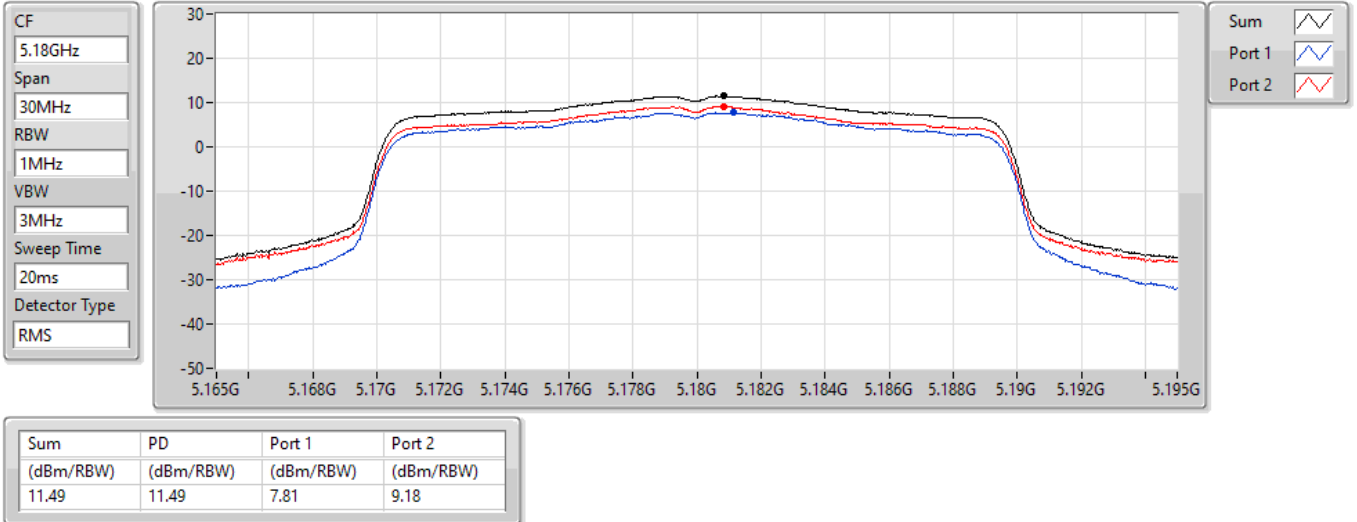


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

13/07/2022

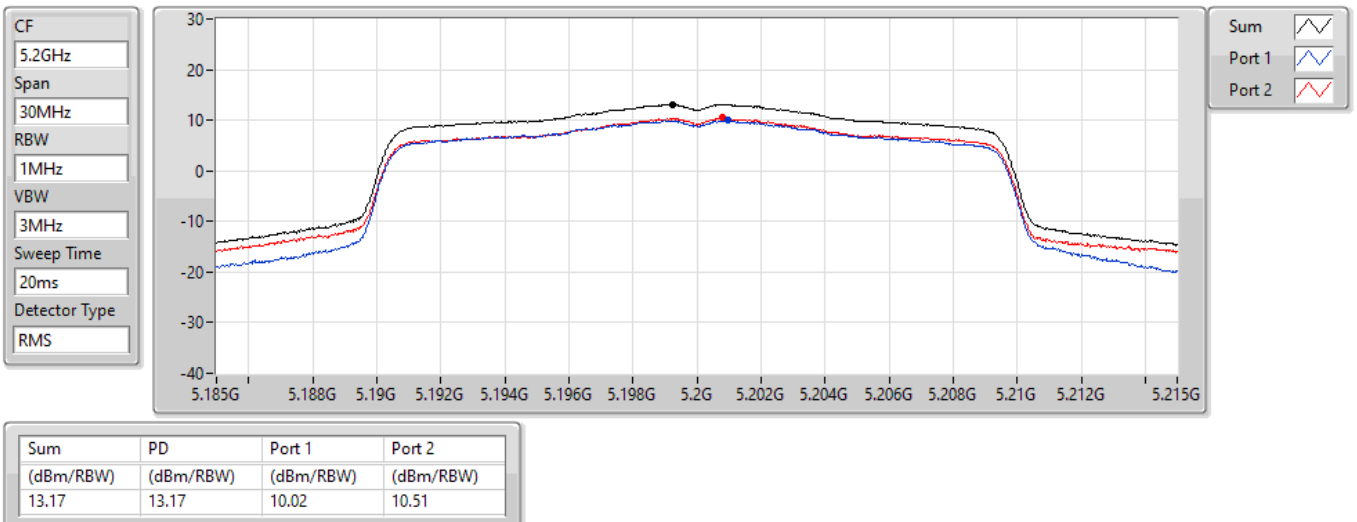


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

13/07/2022

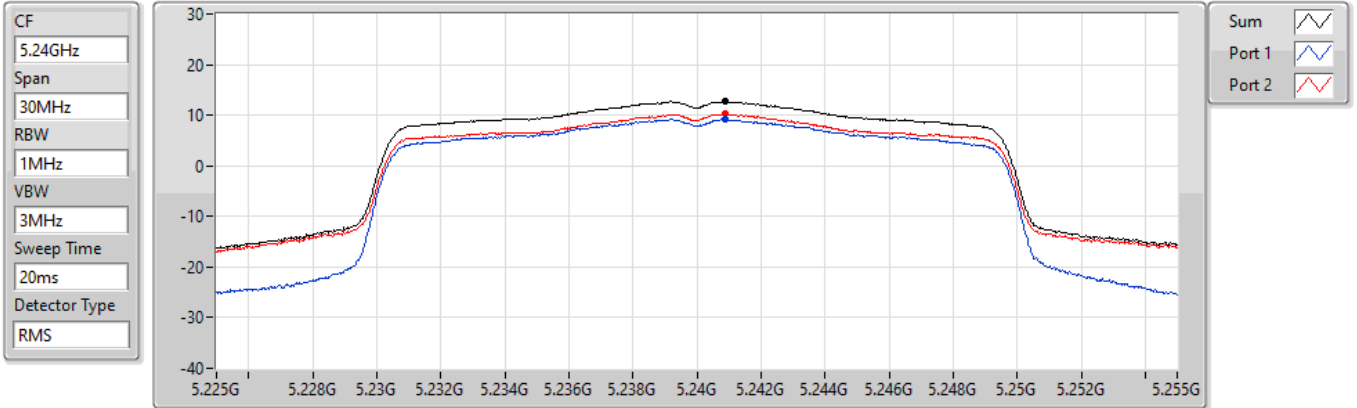


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

13/07/2022



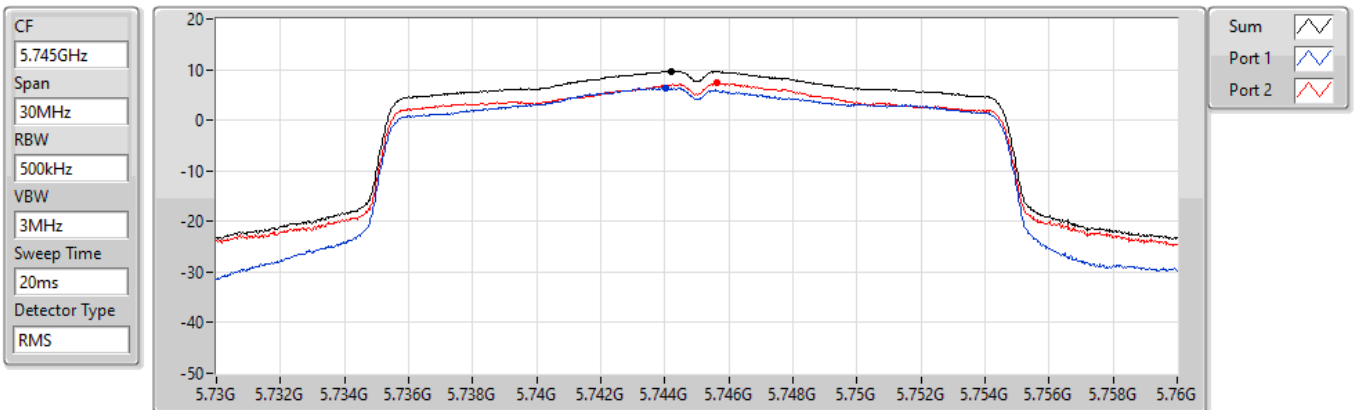
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
12.73	12.73	9.22	10.21

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

13/07/2022



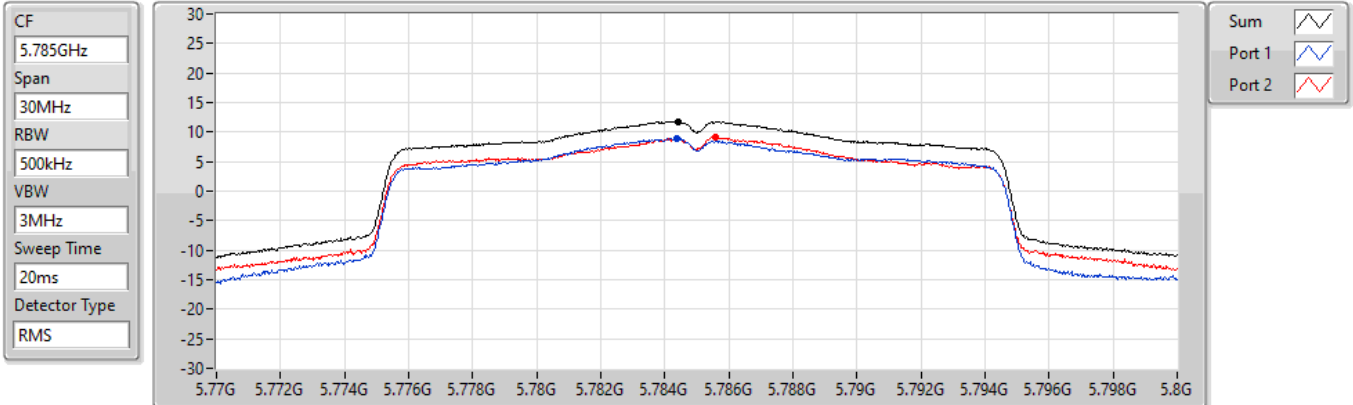
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.65	9.65	6.31	7.33

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

13/07/2022

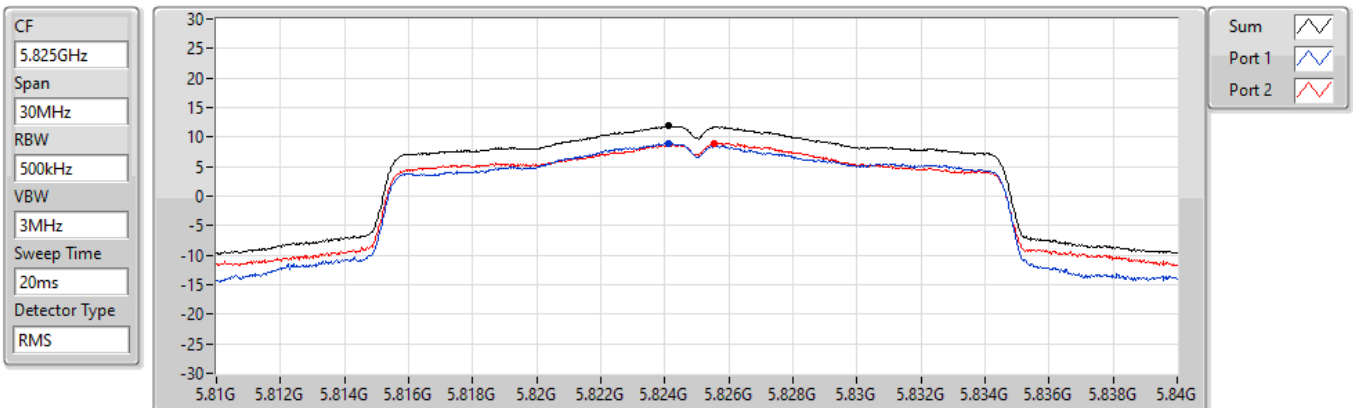


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

13/07/2022

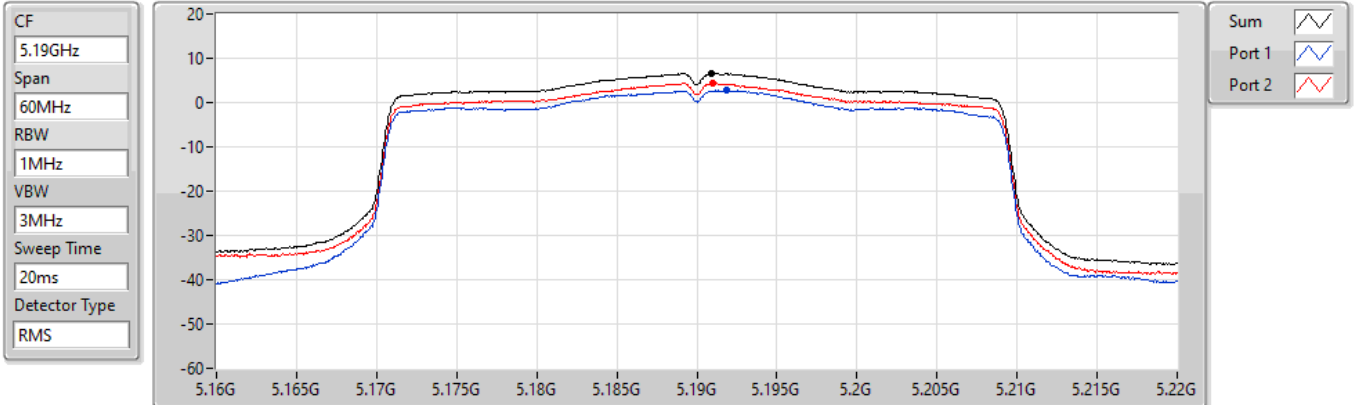


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

13/07/2022

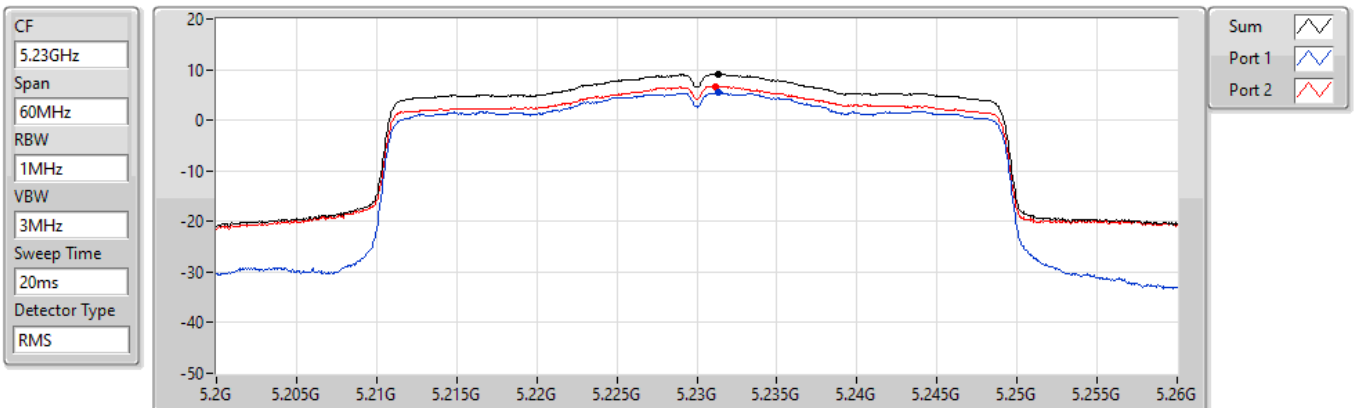


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

13/07/2022

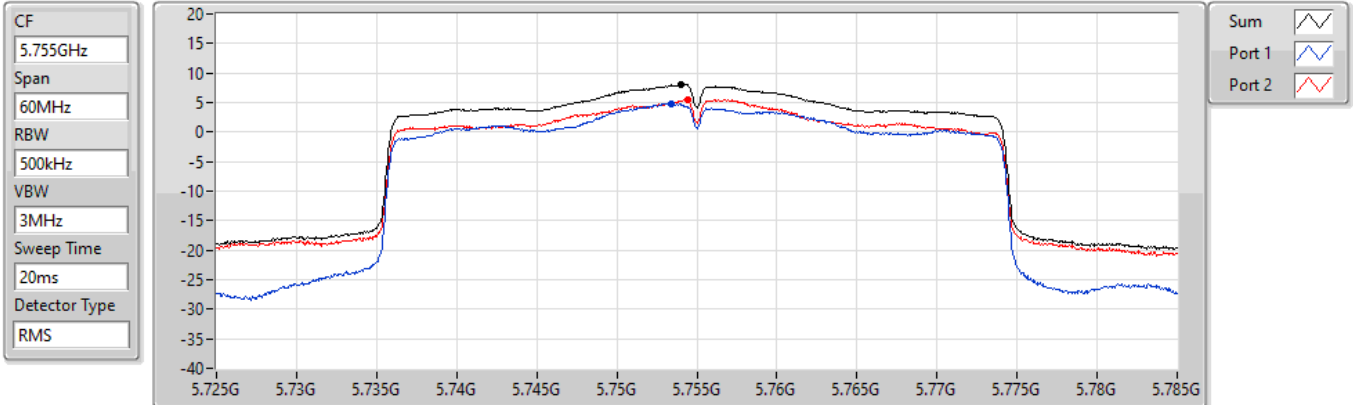


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

13/07/2022



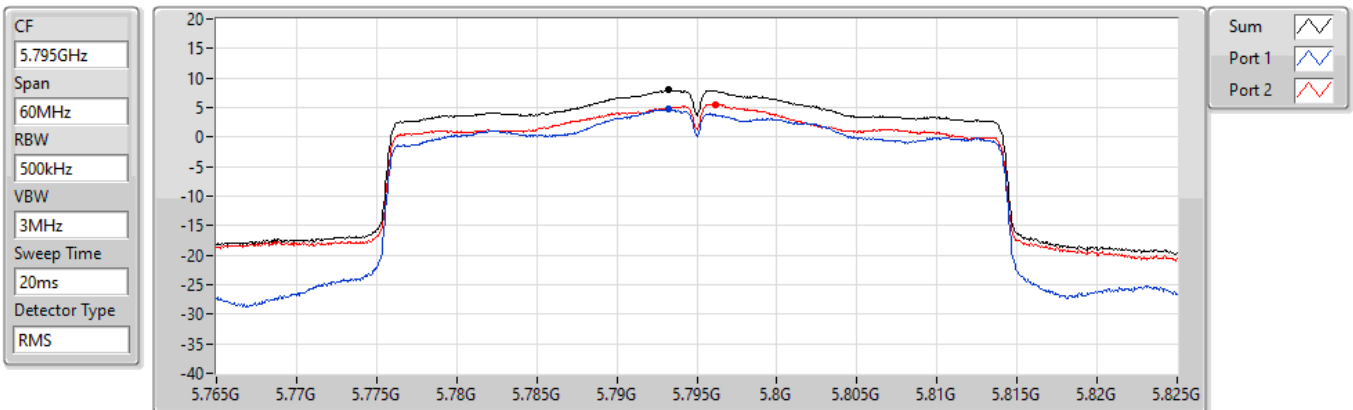
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.98	7.98	4.81	5.54

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

13/07/2022



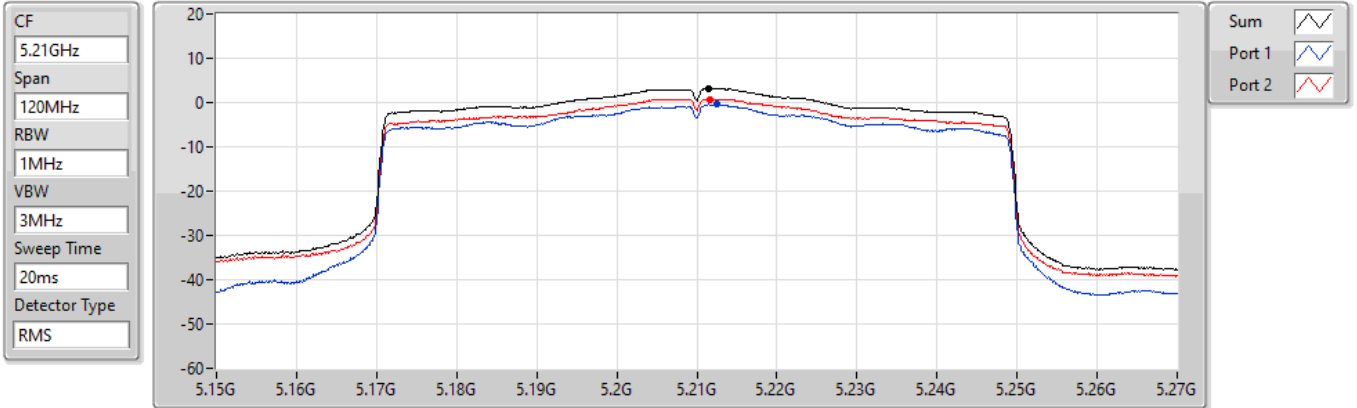
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.98	7.98	4.83	5.55

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

13/07/2022



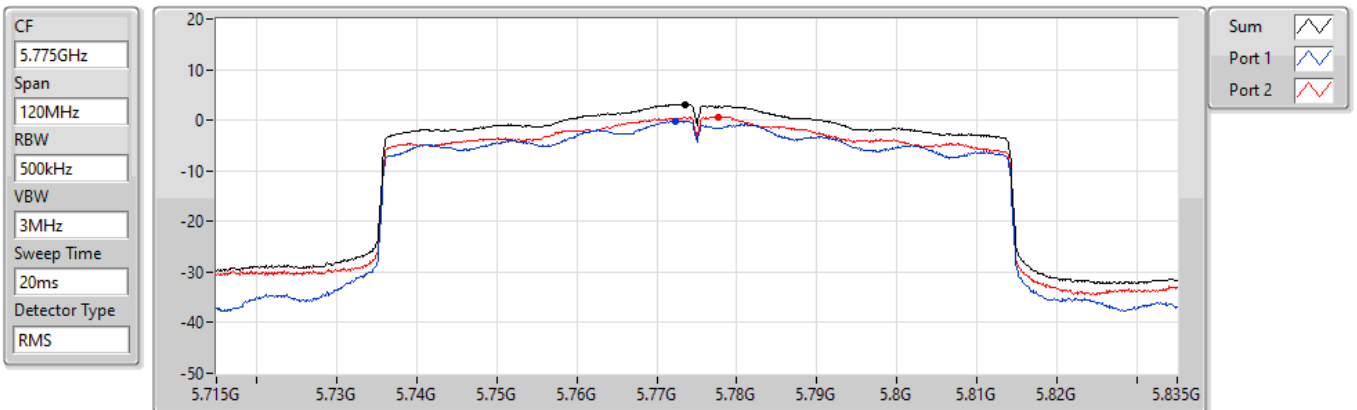
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.22	3.22	-0.42	0.78

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

13/07/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.15	3.15	-0.20	0.67



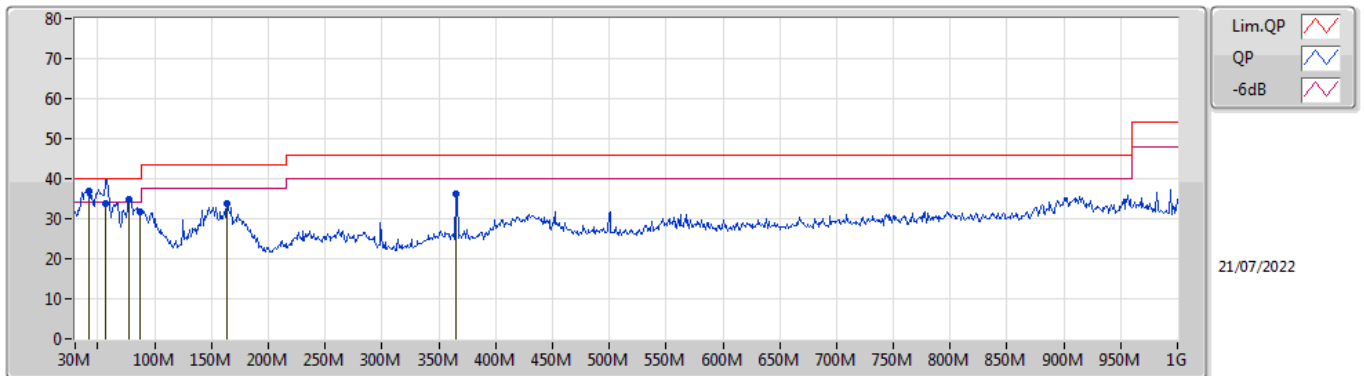
Radiated Emissions below 1GHz

Appendix E.1

Summary

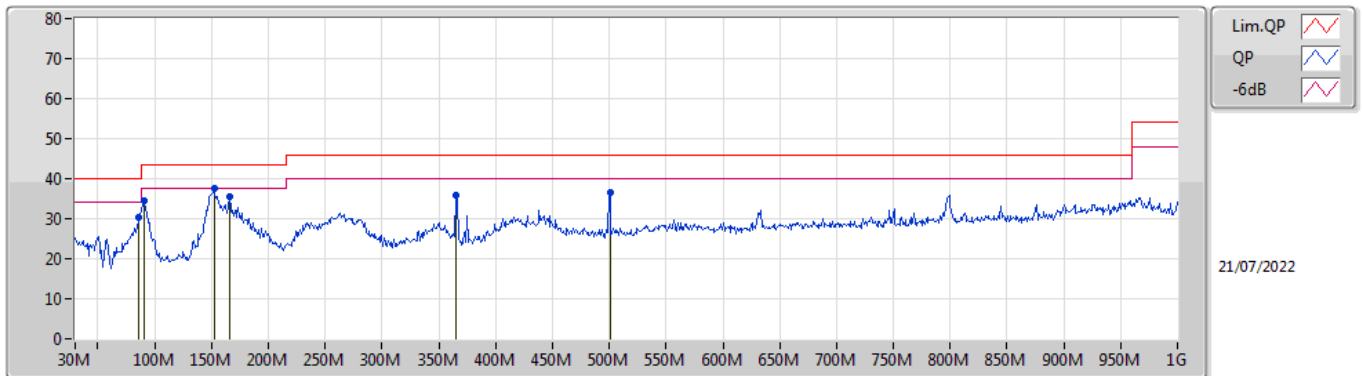
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	42.61M	36.89	40.00	-3.11	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	42.61M	36.89	40.00	-3.11	-13.61	3	Vertical	358	1.00	"Worst"	50.50	17.23	0.95	31.79
QP	57.16M	33.77	40.00	-6.23	-18.33	3	Vertical	305	1.00	-	52.10	12.43	1.14	31.90
PK	77.53M	34.83	40.00	-5.17	-18.14	3	Vertical	209	1.00	-	52.97	12.49	1.35	31.98
PK	87.23M	31.59	40.00	-8.41	-16.49	3	Vertical	113	1.50	-	48.08	14.02	1.44	31.95
PK	163.86M	33.87	43.50	-9.63	-14.29	3	Vertical	360	1.00	-	48.16	15.67	2.02	31.98
PK	364.65M	36.31	46.00	-9.69	-8.40	3	Vertical	153	1.25	-	44.71	20.71	3.06	32.17

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	86.26M	30.31	40.00	-9.69	-16.63	3	Horizontal	157	2.00	-	46.94	13.89	1.43	31.95
PK	91.11M	34.33	43.50	-9.17	-15.53	3	Horizontal	173	2.00	-	49.86	14.95	1.48	31.96
PK	152.22M	37.46	43.50	-6.04	-13.90	3	Horizontal	142	1.50	"Worst"	51.36	16.18	1.92	32.00
PK	165.8M	35.57	43.50	-7.93	-14.33	3	Horizontal	120	1.25	-	49.90	15.63	2.03	31.99
PK	364.65M	35.95	46.00	-10.05	-8.40	3	Horizontal	188	1.00	-	44.35	20.71	3.06	32.17
PK	500.45M	36.69	46.00	-9.31	-5.60	3	Horizontal	93	1.50	-	42.29	23.20	3.60	32.40

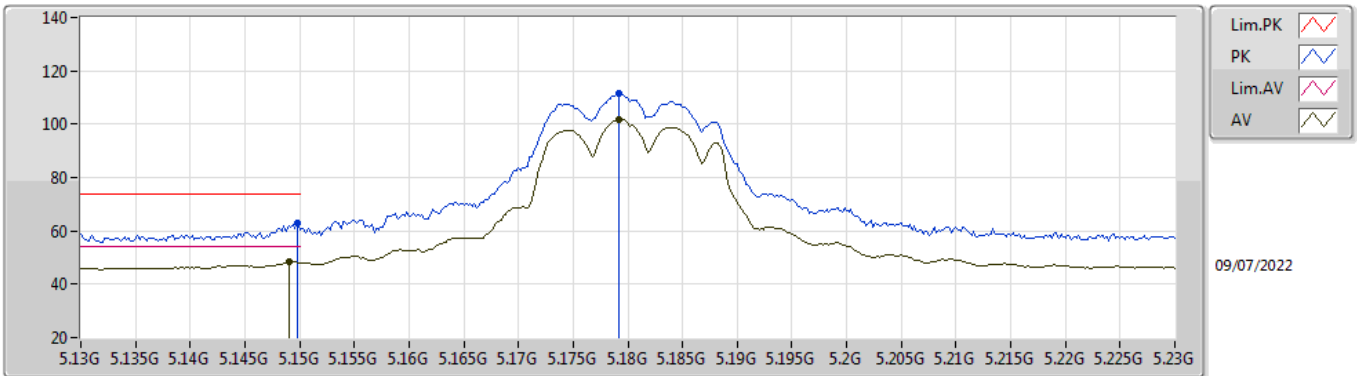


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	5.15G	53.95	54.00	-0.05	3	Horizontal	301	2.08	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

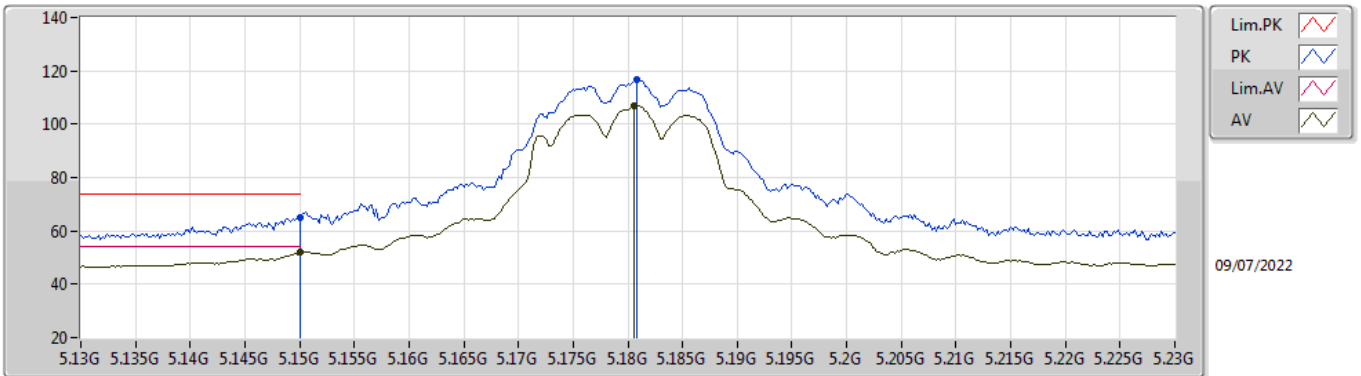


EUT V_2TX
Setting 19
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1498G	62.80	74.00	-11.20	54.68	3	Vertical	360	1.19	-	33.60	5.25	30.73
AV	5.149G	48.32	54.00	-5.68	40.20	3	Vertical	360	1.19	-	33.60	5.25	30.73
PK	5.1792G	111.81	Inf	-Inf	103.60	3	Vertical	360	1.19	-	33.66	5.28	30.73
AV	5.1792G	101.91	Inf	-Inf	93.70	3	Vertical	360	1.19	-	33.66	5.28	30.73

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

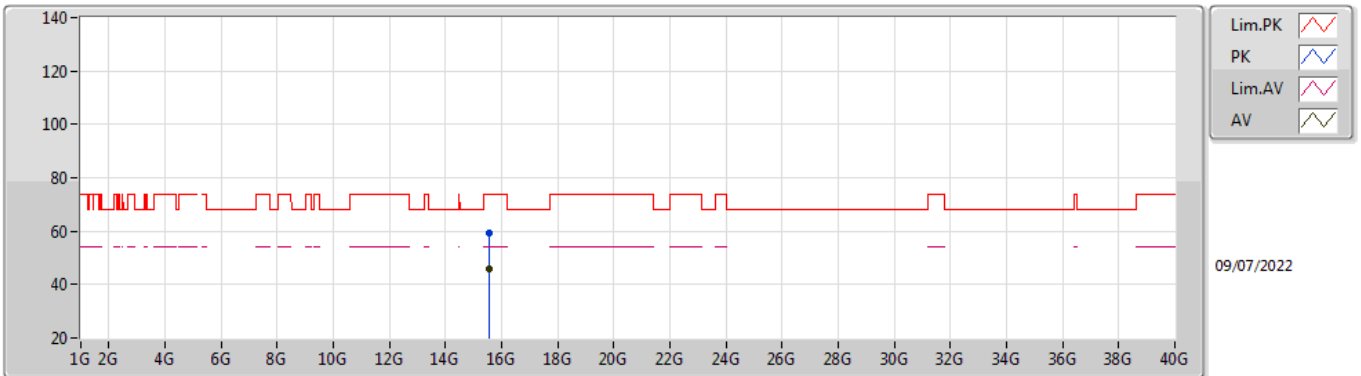


EUT V_2TX
Setting 19
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.15G	65.22	74.00	-8.78	57.10	3	Horizontal	308	1.95	-	33.60	5.25	30.73	
AV	5.15G	52.10	54.00	-1.90	43.98	3	Horizontal	308	1.95	-	33.60	5.25	30.73	
PK	5.1808G	116.61	Inf	-Inf	108.40	3	Horizontal	308	1.95	-	33.66	5.28	30.73	
AV	5.1806G	107.08	Inf	-Inf	98.87	3	Horizontal	308	1.95	-	33.66	5.28	30.73	

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

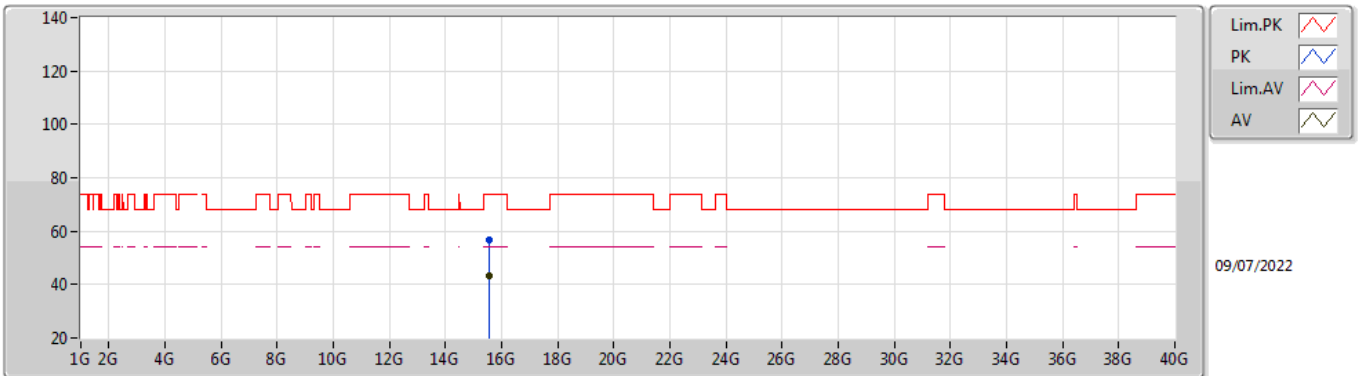


EUT_Z_2TX
Setting 19
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.53712G	59.23	74.00	-14.77	42.91	3	Vertical	36	2.93	-	37.88	9.79	31.35	
AV	15.54252G	45.65	54.00	-8.35	29.37	3	Vertical	36	2.93	-	37.84	9.79	31.35	

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

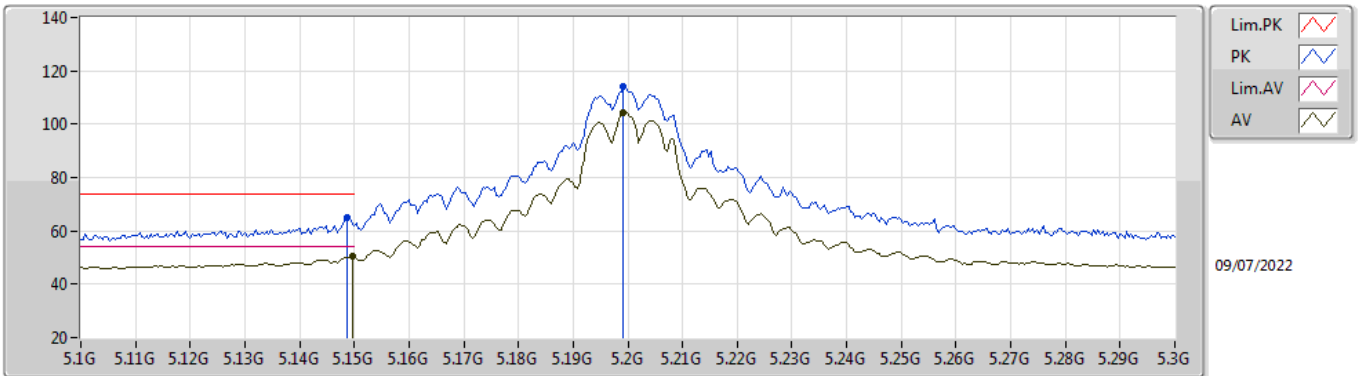


EUT_Z_2TX
Setting 19
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.53952G	56.74	74.00	-17.26	40.44	3	Horizontal	129	3.00	-	37.86	9.79	31.35
AV	15.53982G	43.24	54.00	-10.76	26.94	3	Horizontal	129	3.00	-	37.86	9.79	31.35

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

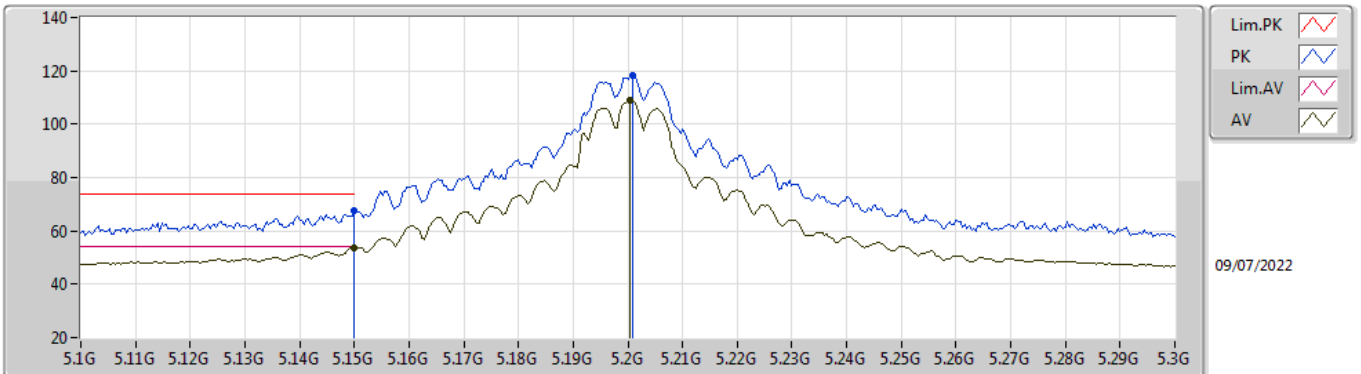


EUT V_2TX
Setting 21.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1488G	65.02	74.00	-8.98	56.90	3	Vertical	42	1.16	-	33.60	5.25	30.73
AV	5.1496G	50.26	54.00	-3.74	42.14	3	Vertical	42	1.16	-	33.60	5.25	30.73
PK	5.1992G	113.93	Inf	-Inf	105.66	3	Vertical	42	1.16	-	33.70	5.30	30.73
AV	5.1992G	104.27	Inf	-Inf	96.00	3	Vertical	42	1.16	-	33.70	5.30	30.73

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

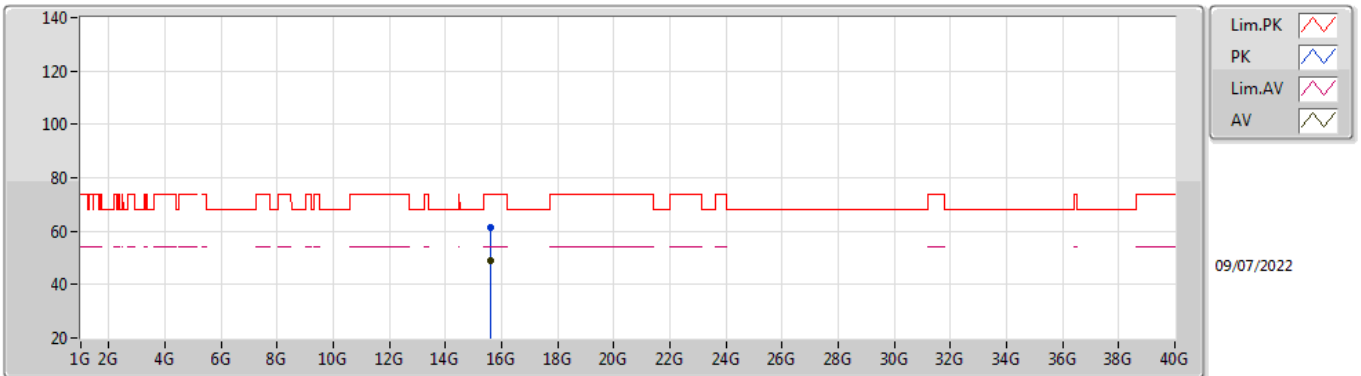


EUT V_2TX
Setting 21.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	67.47	74.00	-6.53	59.35	3	Horizontal	306	2.19	-	33.60	5.25	30.73
AV	5.15G	53.76	54.00	-0.24	45.64	3	Horizontal	306	2.19	-	33.60	5.25	30.73
PK	5.2008G	118.53	Inf	-Inf	110.26	3	Horizontal	306	2.19	-	33.70	5.30	30.73
AV	5.2004G	109.18	Inf	-Inf	100.91	3	Horizontal	306	2.19	-	33.70	5.30	30.73

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

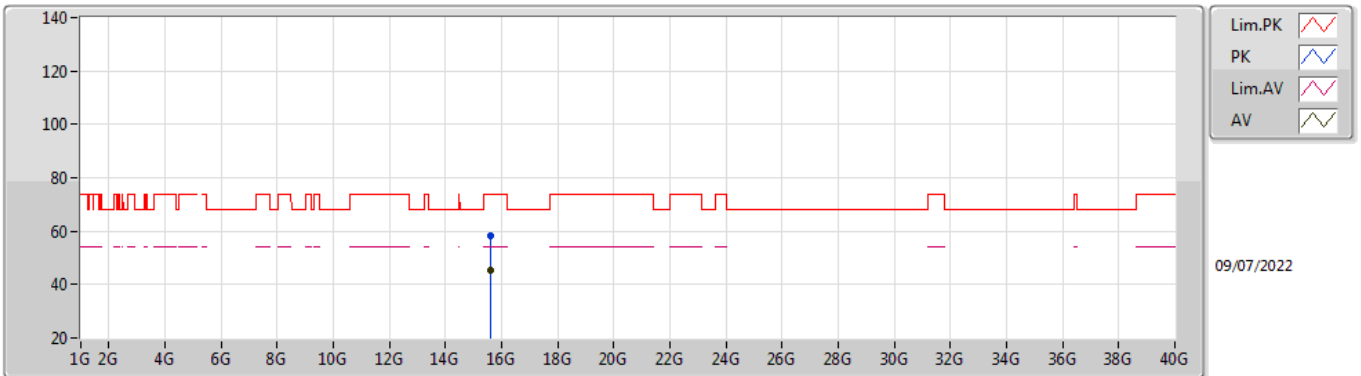


EUT_Z_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.60042G	61.49	74.00	-12.51	45.55	3	Vertical	40	2.30	-	37.50	9.82	31.38	
AV	15.59922G	48.85	54.00	-5.15	32.91	3	Vertical	40	2.30	-	37.50	9.82	31.38	

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

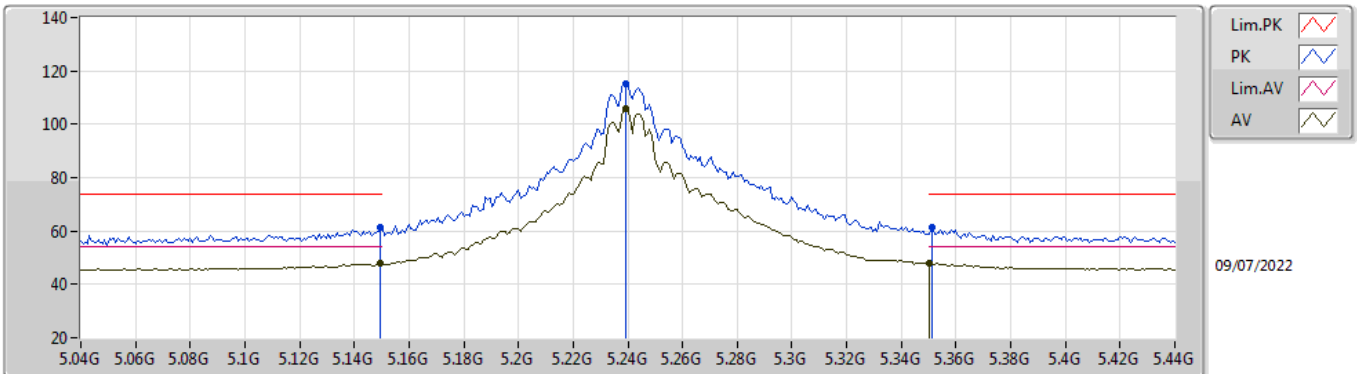


EUT_Z_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.6024G	58.43	74.00	-15.57	42.49	3	Horizontal	129	2.34	-	37.50	9.82	31.38	
AV	15.60216G	45.20	54.00	-8.80	29.26	3	Horizontal	129	2.34	-	37.50	9.82	31.38	

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

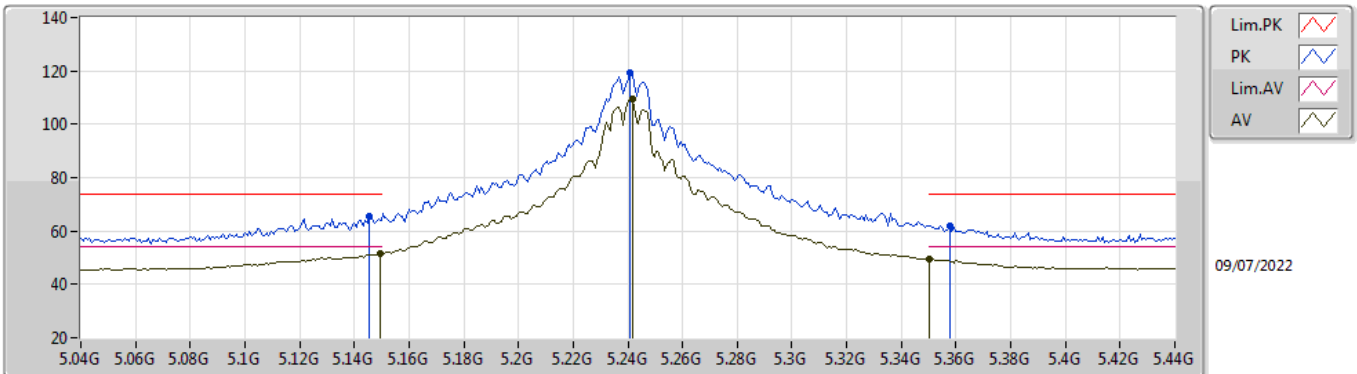


EUT_V_2TX
Setting 23
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	61.42	74.00	-12.58	53.30	3	Vertical	360	1.36	-	33.60	5.25	30.73
AV	5.1496G	47.69	54.00	-6.31	39.57	3	Vertical	360	1.36	-	33.60	5.25	30.73
PK	5.2392G	115.28	Inf	-Inf	106.99	3	Vertical	360	1.36	-	33.70	5.32	30.73
AV	5.2392G	105.80	Inf	-Inf	97.51	3	Vertical	360	1.36	-	33.70	5.32	30.73
PK	5.3512G	61.62	74.00	-12.38	53.06	3	Vertical	360	1.36	-	33.90	5.38	30.72
AV	5.35G	47.87	54.00	-6.13	39.31	3	Vertical	360	1.36	-	33.90	5.38	30.72

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

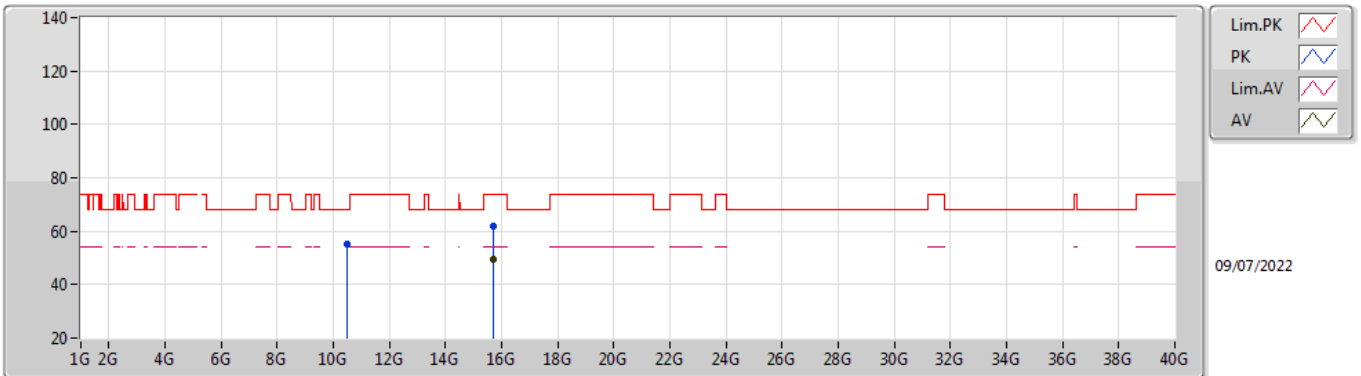


EUT_V_2TX
Setting 23
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1456G	65.30	74.00	-8.70	57.19	3	Horizontal	251	1.94	-	33.59	5.25	30.73
AV	5.1496G	51.60	54.00	-2.40	43.48	3	Horizontal	251	1.94	-	33.60	5.25	30.73
PK	5.2408G	119.26	Inf	-Inf	110.97	3	Horizontal	251	1.94	-	33.70	5.32	30.73
AV	5.2416G	109.59	Inf	-Inf	101.30	3	Horizontal	251	1.94	-	33.70	5.32	30.73
PK	5.3576G	62.11	74.00	-11.89	53.53	3	Horizontal	251	1.94	-	33.92	5.38	30.72
AV	5.35G	49.43	54.00	-4.57	40.87	3	Horizontal	251	1.94	-	33.90	5.38	30.72

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

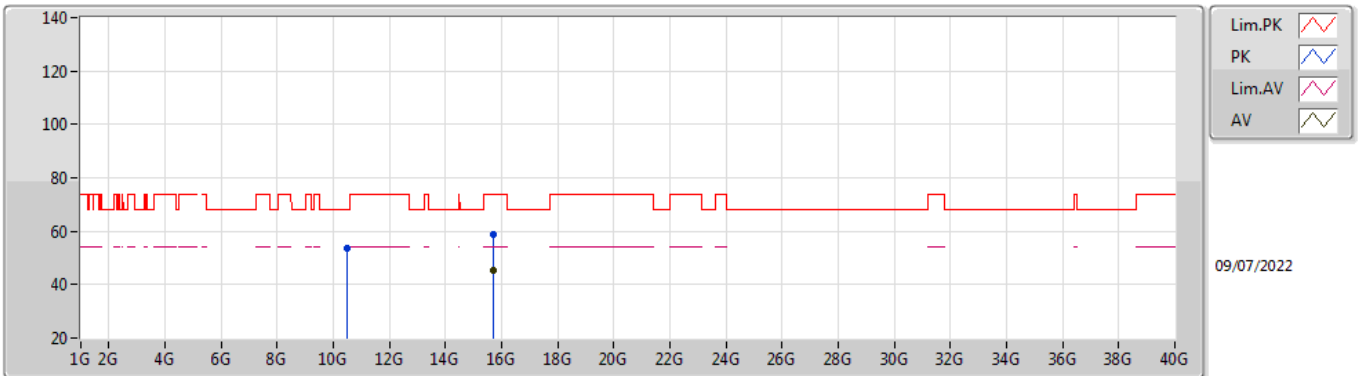


EUT_Z_2TX
Setting 23
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.483G	55.22	68.20	-12.98	40.98	3	Vertical	37	1.72	-	38.60	7.49	31.85
PK	15.72492G	61.89	74.00	-12.11	45.96	3	Vertical	42	2.27	-	37.50	9.88	31.45
AV	15.71946G	49.51	54.00	-4.49	33.58	3	Vertical	42	2.27	-	37.50	9.87	31.44

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

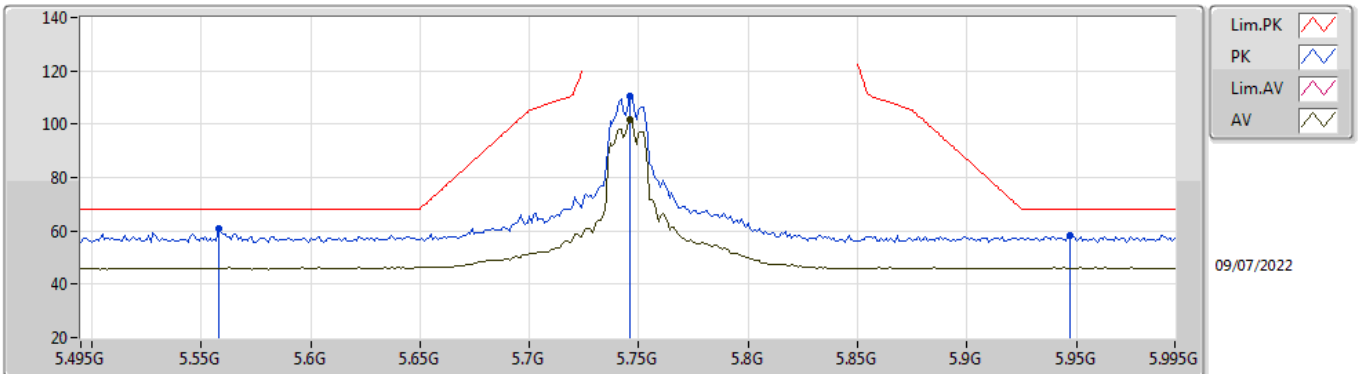


EUT_Z_2TX
Setting 23
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47766G	53.73	68.20	-14.47	39.49	3	Horizontal	173	1.58	-	38.60	7.49	31.85
PK	15.72138G	58.74	74.00	-15.26	42.82	3	Horizontal	128	2.34	-	37.50	9.87	31.45
AV	15.72222G	45.60	54.00	-8.40	29.68	3	Horizontal	128	2.34	-	37.50	9.87	31.45

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

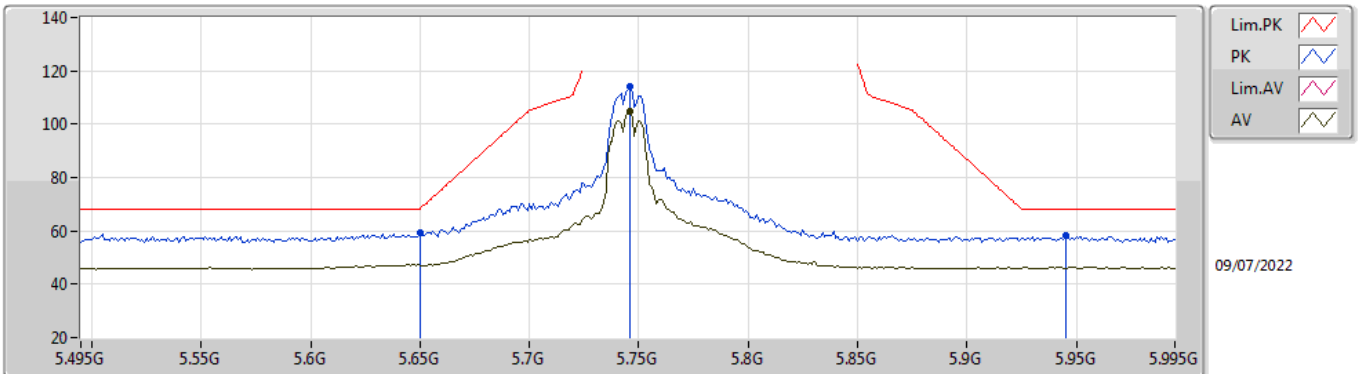


EUT_V_2TX
Setting 19.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.558G	60.64	68.20	-7.56	51.86	3	Vertical	344	1.09	-	33.98	5.56	30.76	
PK	5.746G	110.76	Inf	-Inf	102.26	3	Vertical	344	1.09	-	33.81	5.60	30.91	
AV	5.746G	101.63	Inf	-Inf	93.13	3	Vertical	344	1.09	-	33.81	5.60	30.91	
PK	5.947G	58.12	68.20	-10.08	49.24	3	Vertical	344	1.09	-	34.19	5.75	31.06	

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

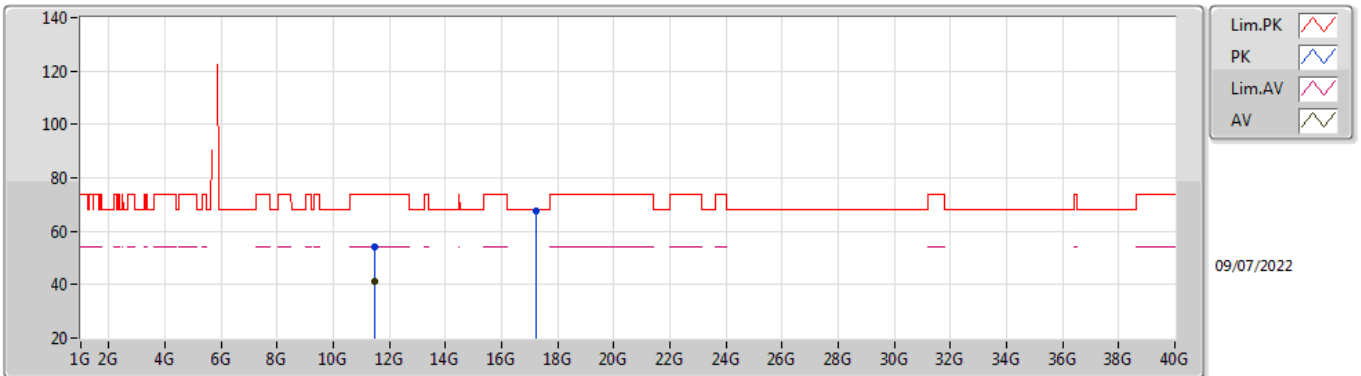


EUT V_2TX
Setting 19.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.65G	59.16	68.20	-9.04	50.59	3	Horizontal	64	1.88	-	33.80	5.60	30.83	
PK	5.746G	114.22	Inf	-Inf	105.72	3	Horizontal	64	1.88	-	33.81	5.60	30.91	
AV	5.746G	104.84	Inf	-Inf	96.34	3	Horizontal	64	1.88	-	33.81	5.60	30.91	
PK	5.945G	58.35	68.20	-9.85	49.47	3	Horizontal	64	1.88	-	34.19	5.75	31.06	

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

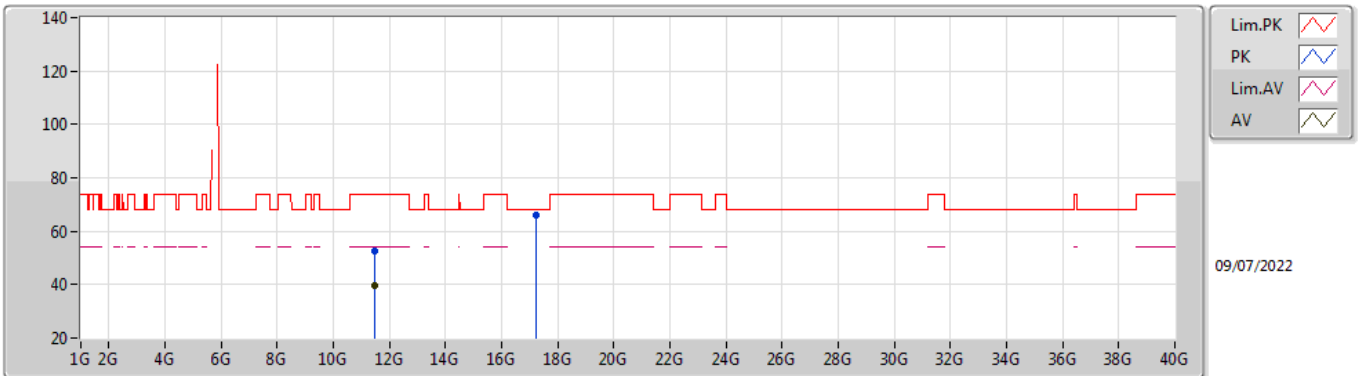


EUT_Z_2TX
Setting 19.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.49624G	54.17	74.00	-19.83	39.40	3	Vertical	295	2.26	-	38.99	7.90	32.12
AV	11.48694G	41.26	54.00	-12.74	26.51	3	Vertical	295	2.26	-	38.97	7.89	32.11
PK	17.23932G	67.48	68.20	-0.72	44.90	3	Vertical	141	2.24	-	42.20	10.62	30.24

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

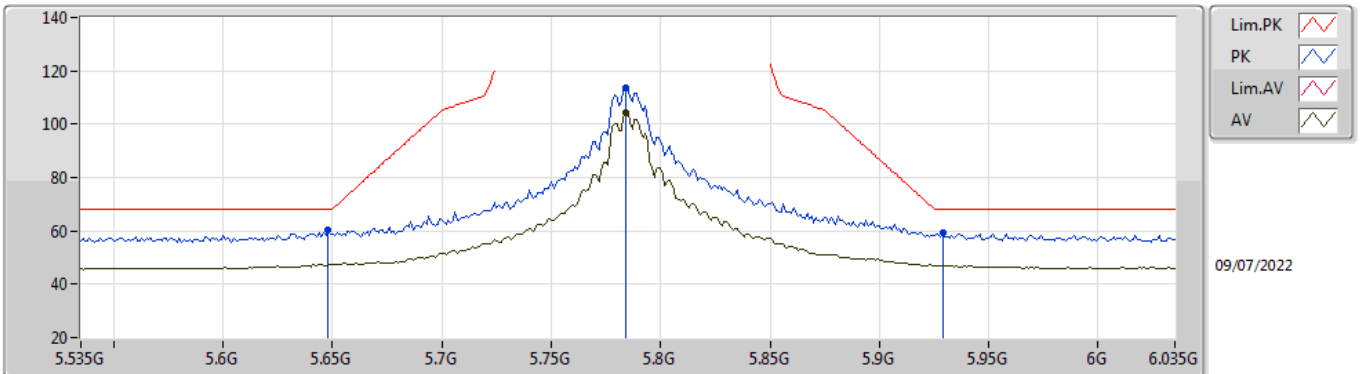


EUT_Z_2TX
Setting 19.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.4984G	52.82	74.00	-21.18	38.04	3	Horizontal	190	1.80	-	39.00	7.90	32.12
AV	11.48688G	39.82	54.00	-14.18	25.07	3	Horizontal	190	1.80	-	38.97	7.89	32.11
PK	17.22996G	65.97	68.20	-2.23	43.45	3	Horizontal	125	2.21	-	42.15	10.61	30.24

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

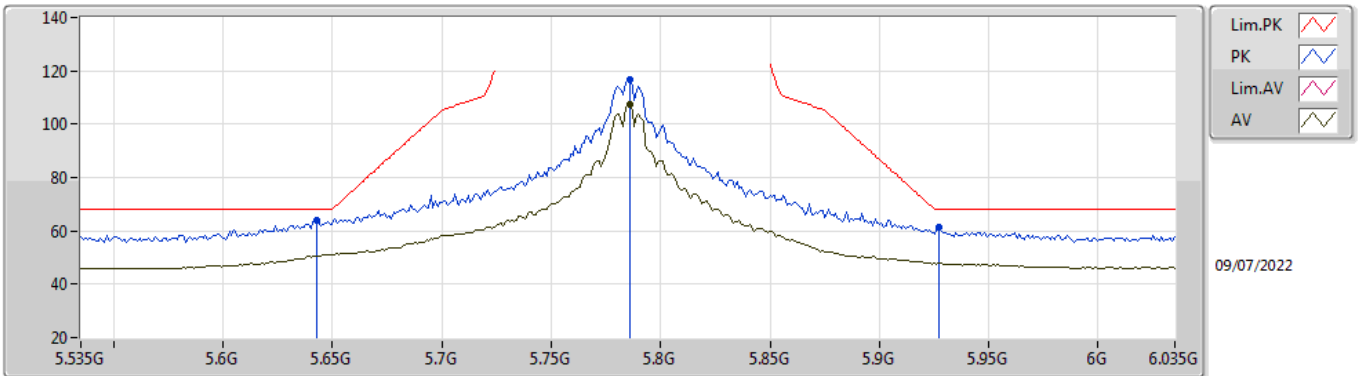


EUT V_2TX
Setting 23
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.648G	60.16	68.20	-8.04	51.59	3	Vertical	357	2.19	-	33.80	5.60	30.83	
PK	5.784G	113.77	Inf	-Inf	105.31	3	Vertical	357	2.19	-	33.80	5.60	30.94	
AV	5.784G	104.44	Inf	-Inf	95.98	3	Vertical	357	2.19	-	33.80	5.60	30.94	
PK	5.929G	59.38	68.20	-8.82	50.54	3	Vertical	357	2.19	-	34.16	5.73	31.05	

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

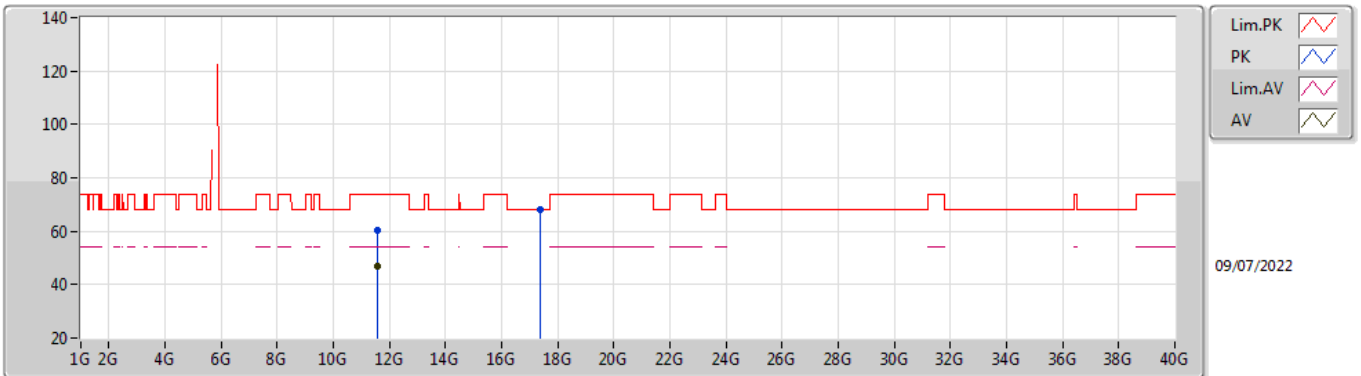


EUT V_2TX
Setting 23
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.643G	63.93	68.20	-4.27	55.35	3	Horizontal	66	2.10	-	33.81	5.60	30.83	
PK	5.786G	116.64	Inf	-Inf	108.18	3	Horizontal	66	2.10	-	33.80	5.60	30.94	
AV	5.786G	107.50	Inf	-Inf	99.04	3	Horizontal	66	2.10	-	33.80	5.60	30.94	
PK	5.927G	61.14	68.20	-7.06	52.30	3	Horizontal	66	2.10	-	34.15	5.73	31.04	

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

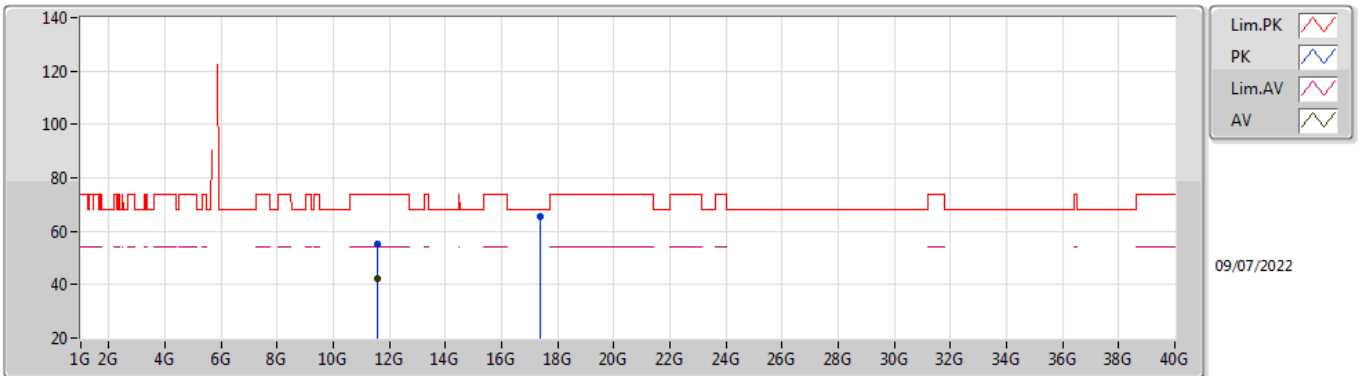


EUT_Z_2TX
Setting 23
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.57348G	60.27	74.00	-13.73	45.28	3	Vertical	300	2.11	-	39.22	7.93	32.16
AV	11.5724G	47.13	54.00	-6.87	32.14	3	Vertical	300	2.11	-	39.22	7.93	32.16
PK	17.35488G	67.93	68.20	-0.27	44.64	3	Vertical	57	1.63	-	42.83	10.68	30.22

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

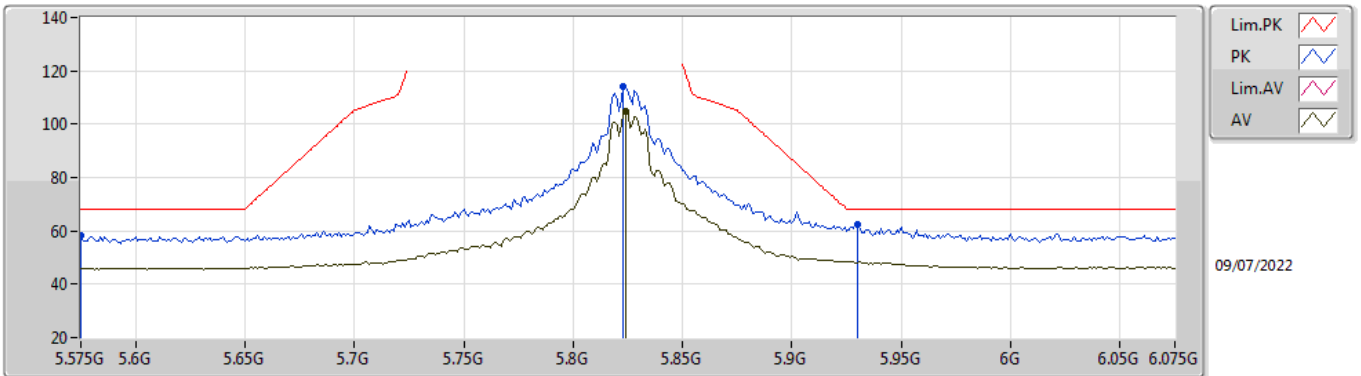


EUT_Z_2TX
Setting 23
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5718G	55.12	74.00	-18.88	40.13	3	Horizontal	102	2.06	-	39.22	7.93	32.16
AV	11.57216G	41.99	54.00	-12.01	27.00	3	Horizontal	102	2.06	-	39.22	7.93	32.16
PK	17.35518G	65.33	68.20	-2.87	42.04	3	Horizontal	126	2.22	-	42.83	10.68	30.22

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

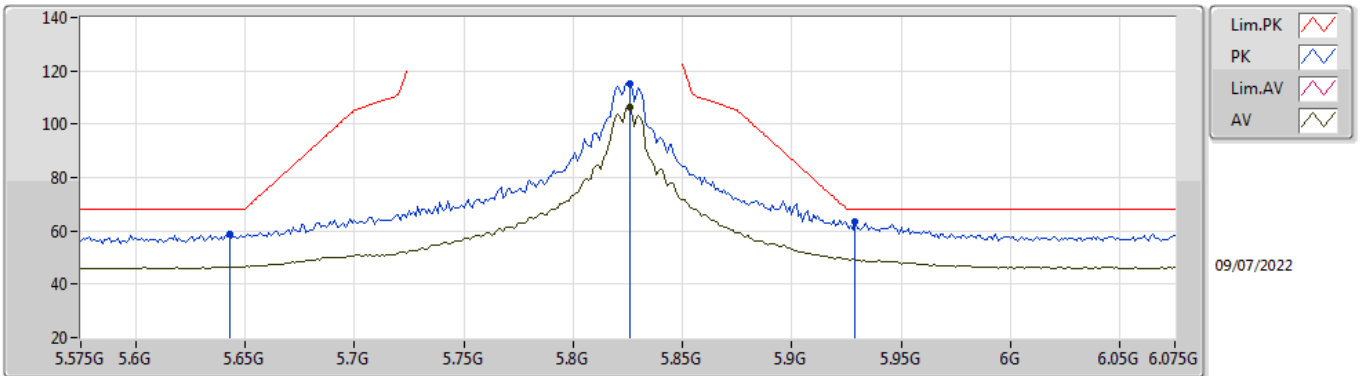


EUT V_2TX
Setting 22.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.575G	58.28	68.20	-9.92	49.54	3	Vertical	0	2.12	-	33.95	5.57	30.78	
PK	5.823G	114.22	Inf	-Inf	105.77	3	Vertical	0	2.12	-	33.80	5.62	30.97	
AV	5.824G	104.81	Inf	-Inf	96.36	3	Vertical	0	2.12	-	33.80	5.62	30.97	
PK	5.93G	62.28	68.20	-5.92	53.44	3	Vertical	0	2.12	-	34.16	5.73	31.05	

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

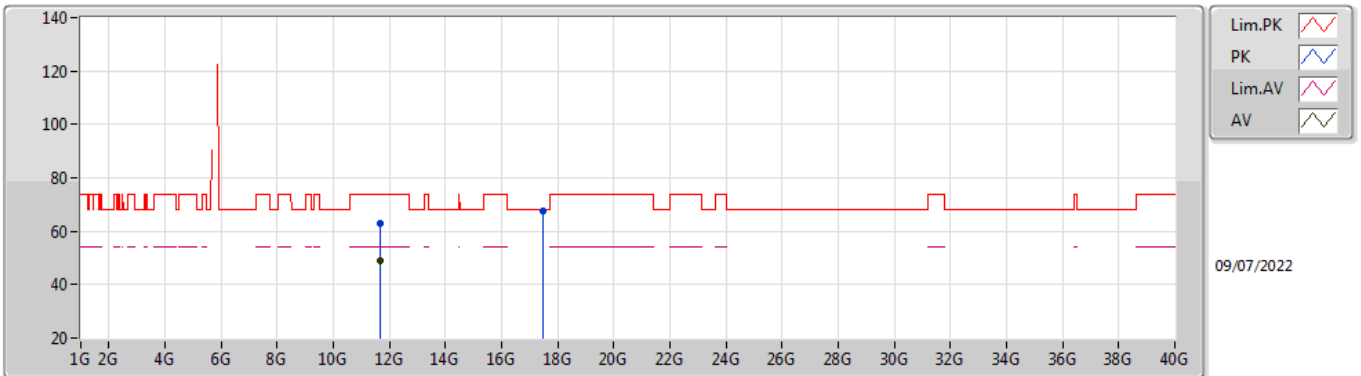


EUT V_2TX
Setting 22.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.643G	58.84	68.20	-9.36	50.26	3	Horizontal	66	2.09	-	33.81	5.60	30.83	
PK	5.826G	115.28	Inf	-Inf	106.82	3	Horizontal	66	2.09	-	33.80	5.63	30.97	
AV	5.826G	106.41	Inf	-Inf	97.95	3	Horizontal	66	2.09	-	33.80	5.63	30.97	
PK	5.929G	63.63	68.20	-4.57	54.79	3	Horizontal	66	2.09	-	34.16	5.73	31.05	

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

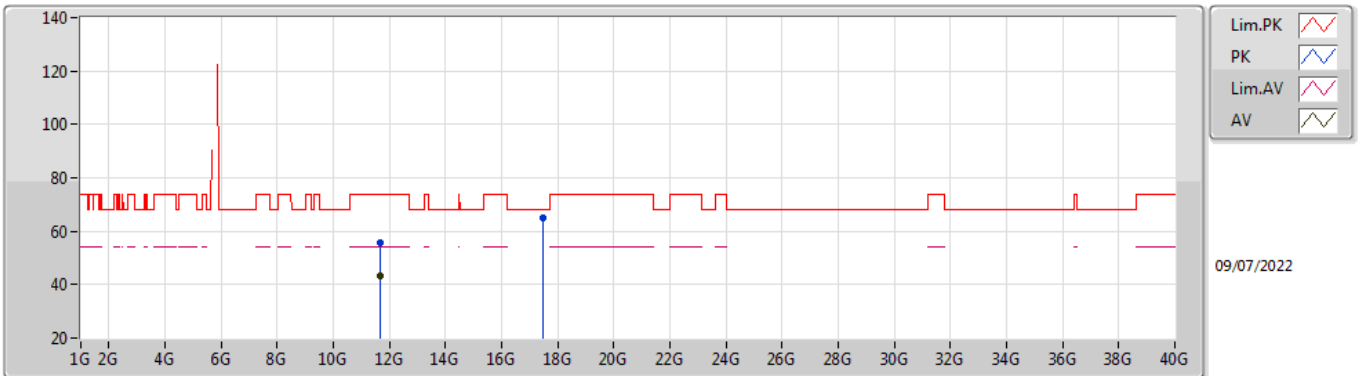


EUT_Z_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.6524G	62.87	74.00	-11.13	47.72	3	Vertical	298	2.18	-	39.40	7.96	32.21
AV	11.64994G	48.76	54.00	-5.24	33.61	3	Vertical	298	2.18	-	39.40	7.96	32.21
PK	17.47548G	67.83	68.20	-0.37	43.60	3	Vertical	57	1.99	-	43.70	10.74	30.21

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

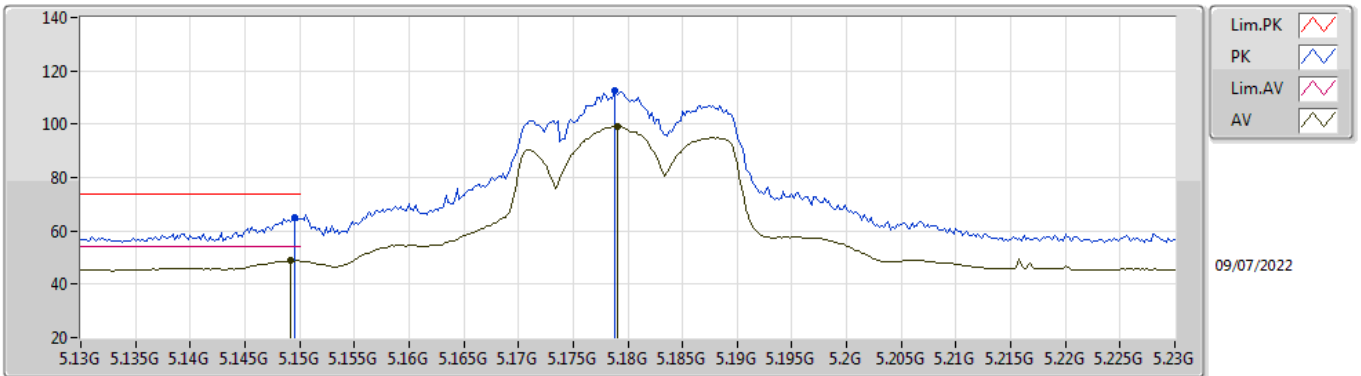


EUT_Z_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.65132G	55.87	74.00	-18.13	40.72	3	Horizontal	342	2.14	-	39.40	7.96	32.21	
AV	11.65198G	43.09	54.00	-10.91	27.94	3	Horizontal	342	2.14	-	39.40	7.96	32.21	
PK	17.47206G	64.76	68.20	-3.44	40.55	3	Horizontal	128	2.78	-	43.68	10.74	30.21	

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

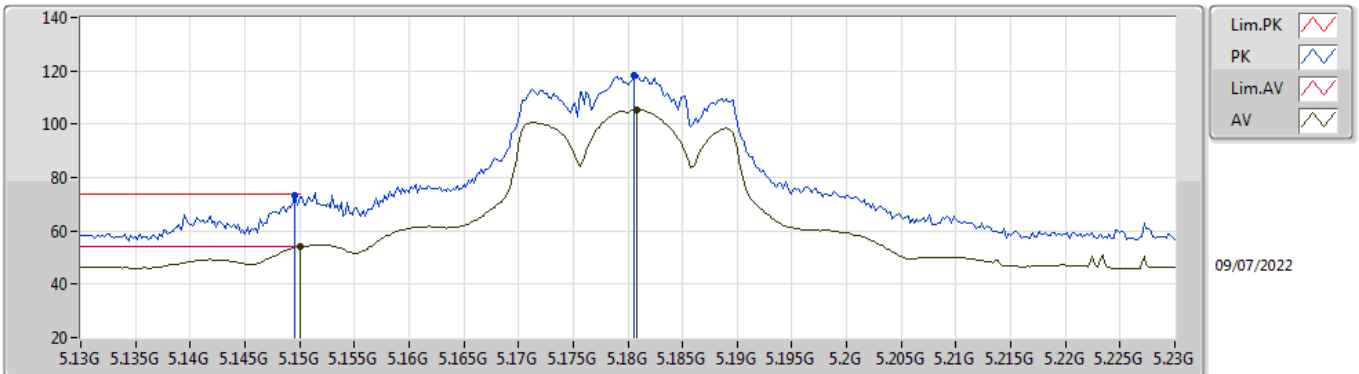


EUT_V_2TX
Setting 19
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.1496G	65.08	74.00	-8.92	56.96	3	Vertical	0	1.30	-	33.60	5.25	30.73	
AV	5.1492G	48.83	54.00	-5.17	40.71	3	Vertical	0	1.30	-	33.60	5.25	30.73	
PK	5.1788G	112.83	Inf	-Inf	104.62	3	Vertical	0	1.30	-	33.66	5.28	30.73	
AV	5.179G	99.05	Inf	-Inf	90.84	3	Vertical	0	1.30	-	33.66	5.28	30.73	

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

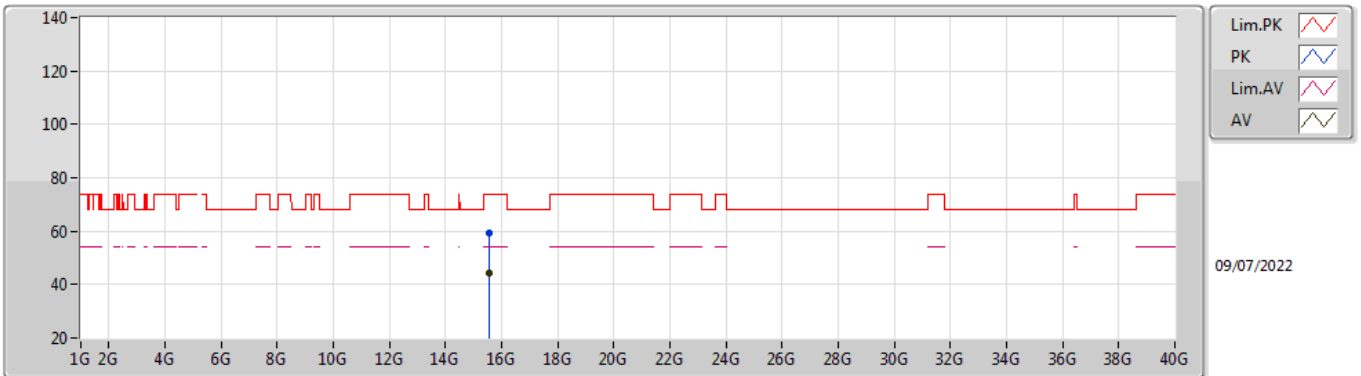


EUT V_2TX
Setting 19
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	73.03	74.00	-0.97	64.91	3	Horizontal	301	2.08	-	33.60	5.25	30.73
AV	5.15G	53.95	54.00	-0.05	45.83	3	Horizontal	301	2.08	-	33.60	5.25	30.73
PK	5.1806G	118.36	Inf	-Inf	110.15	3	Horizontal	301	2.08	-	33.66	5.28	30.73
AV	5.1808G	105.54	Inf	-Inf	97.33	3	Horizontal	301	2.08	-	33.66	5.28	30.73

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

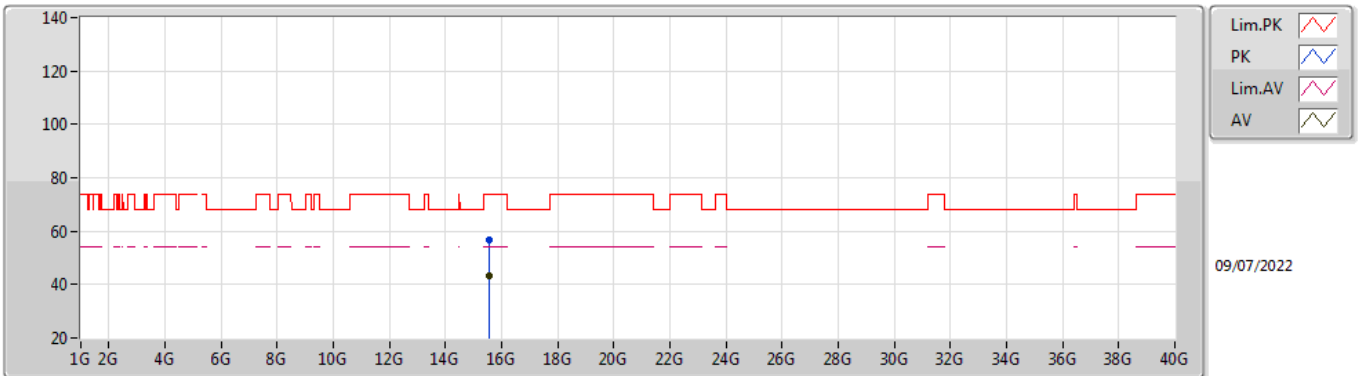


EUT_Z_2TX
Setting 19
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.5433G	59.09	74.00	-14.91	42.81	3	Vertical	51	2.26	-	37.84	9.79	31.35	
AV	15.54624G	44.51	54.00	-9.49	28.24	3	Vertical	51	2.26	-	37.82	9.80	31.35	

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

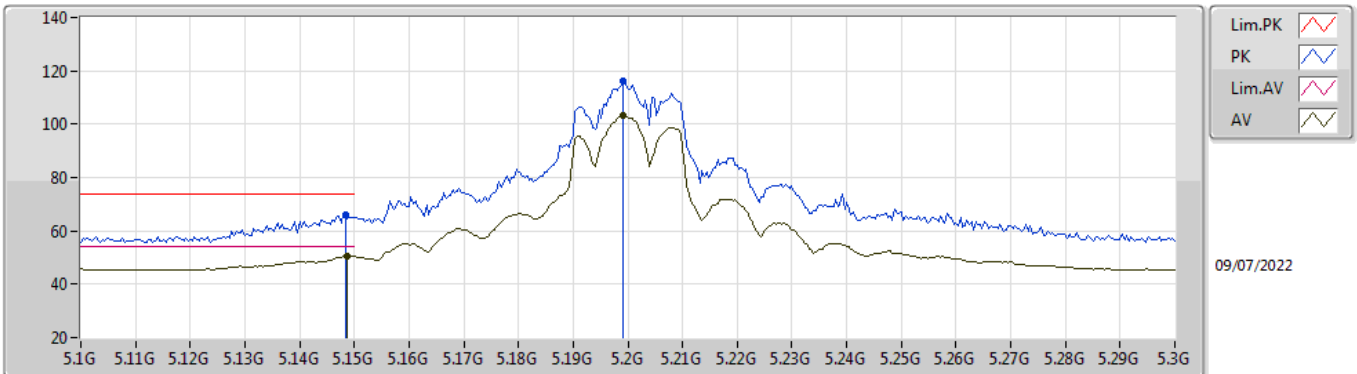


EUT_Z_2TX
Setting 19
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.54174G	56.86	74.00	-17.14	40.57	3	Horizontal	140	2.33	-	37.85	9.79	31.35
AV	15.5427G	43.09	54.00	-10.91	26.81	3	Horizontal	140	2.33	-	37.84	9.79	31.35

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

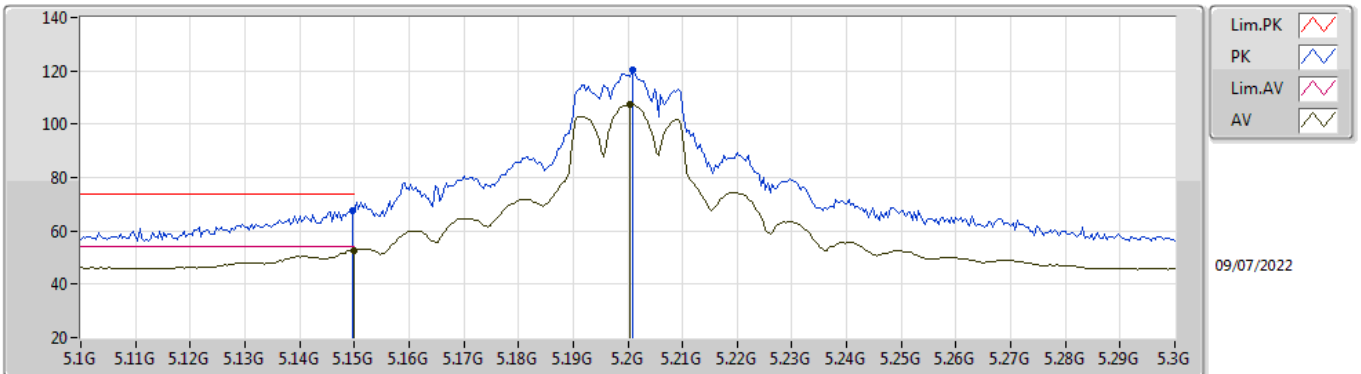


EUT V_2TX
Setting 21
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.1484G	66.00	74.00	-8.00	57.88	3	Vertical	38	1.09	-	33.60	5.25	30.73	
AV	5.1488G	50.69	54.00	-3.31	42.57	3	Vertical	38	1.09	-	33.60	5.25	30.73	
PK	5.1992G	116.26	Inf	-Inf	107.99	3	Vertical	38	1.09	-	33.70	5.30	30.73	
AV	5.1992G	103.15	Inf	-Inf	94.88	3	Vertical	38	1.09	-	33.70	5.30	30.73	

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

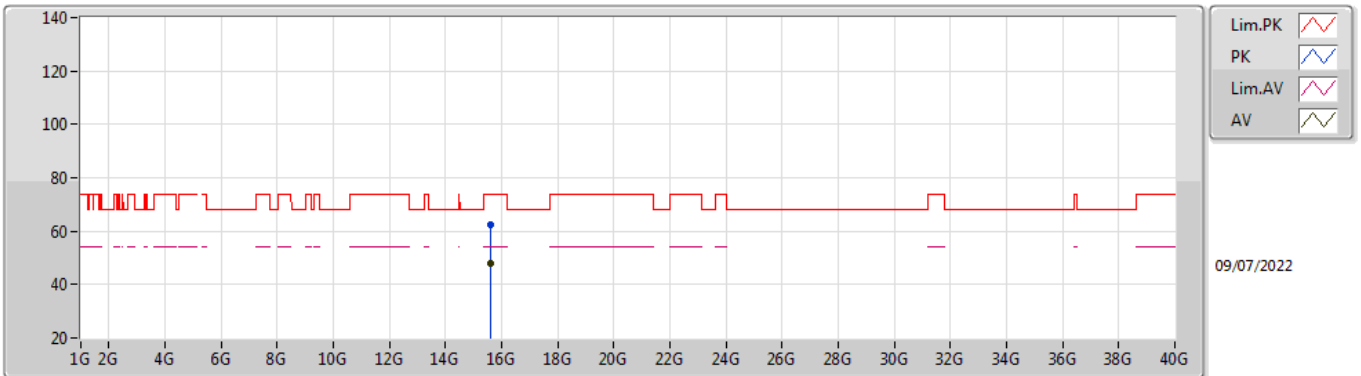


EUT V_2TX
Setting 21
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	67.60	74.00	-6.40	59.48	3	Horizontal	304	2.18	-	33.60	5.25	30.73
AV	5.15G	52.79	54.00	-1.21	44.67	3	Horizontal	304	2.18	-	33.60	5.25	30.73
PK	5.2008G	120.16	Inf	-Inf	111.89	3	Horizontal	304	2.18	-	33.70	5.30	30.73
AV	5.2004G	107.53	Inf	-Inf	99.26	3	Horizontal	304	2.18	-	33.70	5.30	30.73

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

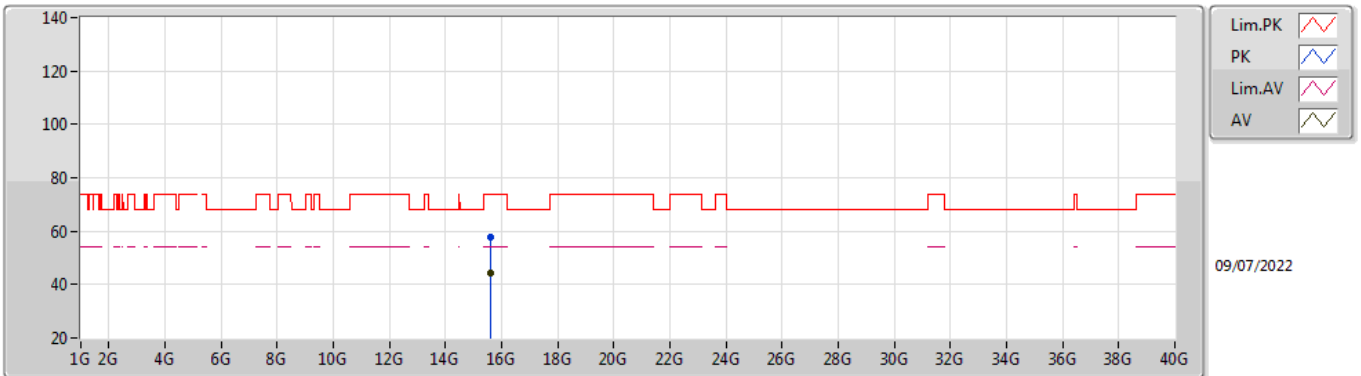


EUT_Z_2TX
Setting 21
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.60186G	62.38	74.00	-11.62	46.44	3	Vertical	30	2.28	-	37.50	9.82	31.38	
AV	15.60096G	48.04	54.00	-5.96	32.10	3	Vertical	30	2.28	-	37.50	9.82	31.38	

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

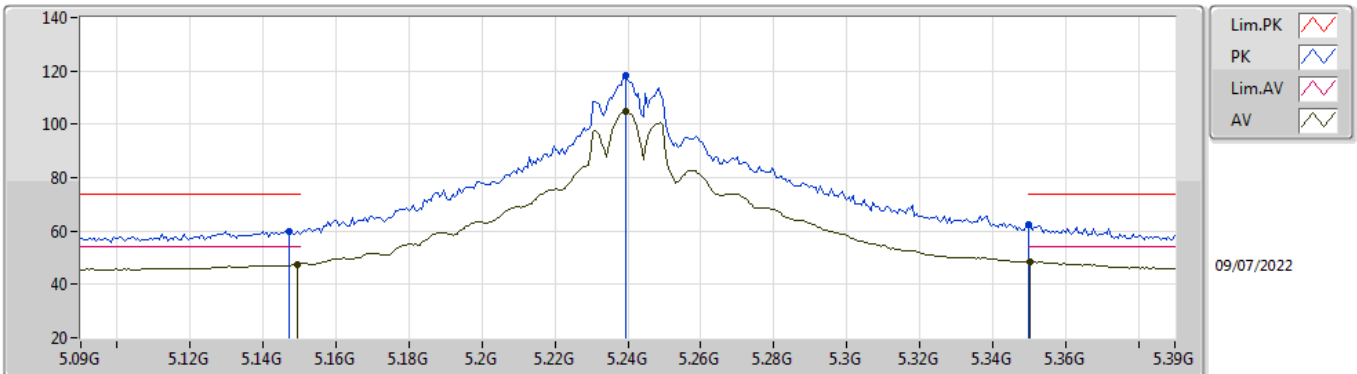


EUT_Z_2TX
Setting 21
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.60372G	57.64	74.00	-16.36	41.70	3	Horizontal	124	2.36	-	37.50	9.82	31.38	
AV	15.60486G	44.38	54.00	-9.62	28.44	3	Horizontal	124	2.36	-	37.50	9.82	31.38	

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

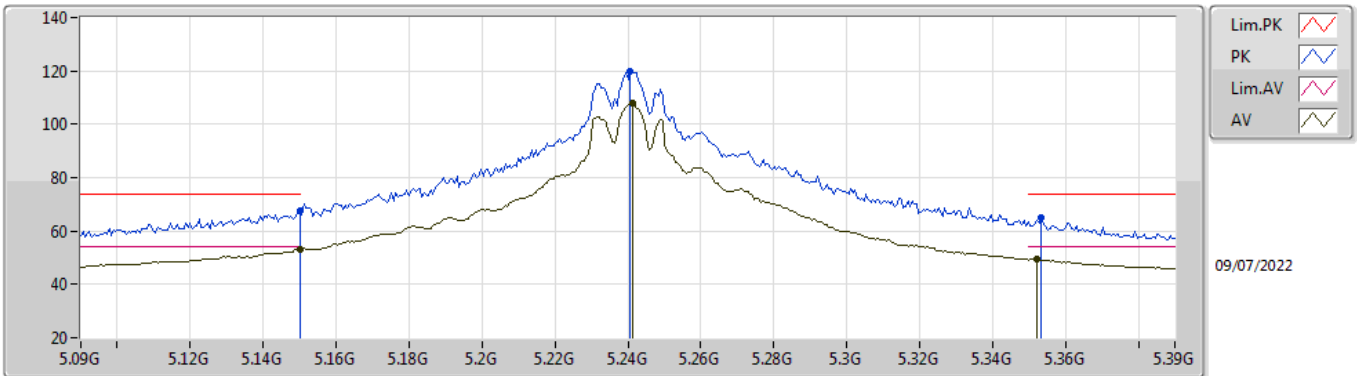


EUT_V_2TX
Setting 23
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.147G	60.08	74.00	-13.92	51.97	3	Vertical	354	1.36	-	33.59	5.25	30.73
AV	5.1494G	47.52	54.00	-6.48	39.40	3	Vertical	354	1.36	-	33.60	5.25	30.73
PK	5.2394G	118.33	Inf	-Inf	110.04	3	Vertical	354	1.36	-	33.70	5.32	30.73
AV	5.2394G	104.91	Inf	-Inf	96.62	3	Vertical	354	1.36	-	33.70	5.32	30.73
PK	5.35G	62.23	74.00	-11.77	53.67	3	Vertical	354	1.36	-	33.90	5.38	30.72
AV	5.3504G	48.55	54.00	-5.45	39.99	3	Vertical	354	1.36	-	33.90	5.38	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

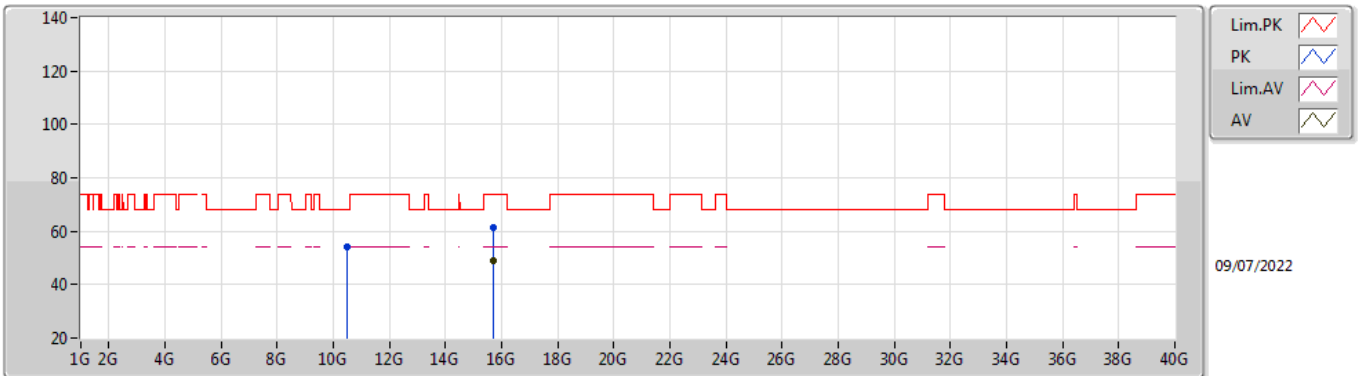


EUT_V_2TX
Setting 23
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	67.60	74.00	-6.40	59.48	3	Horizontal	242	1.93	-	33.60	5.25	30.73
AV	5.15G	53.31	54.00	-0.69	45.19	3	Horizontal	242	1.93	-	33.60	5.25	30.73
PK	5.2406G	119.88	Inf	-Inf	111.59	3	Horizontal	242	1.93	-	33.70	5.32	30.73
AV	5.2412G	108.06	Inf	-Inf	99.77	3	Horizontal	242	1.93	-	33.70	5.32	30.73
PK	5.3534G	64.80	74.00	-9.20	56.23	3	Horizontal	242	1.93	-	33.91	5.38	30.72
AV	5.3522G	49.44	54.00	-4.56	40.88	3	Horizontal	242	1.93	-	33.90	5.38	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

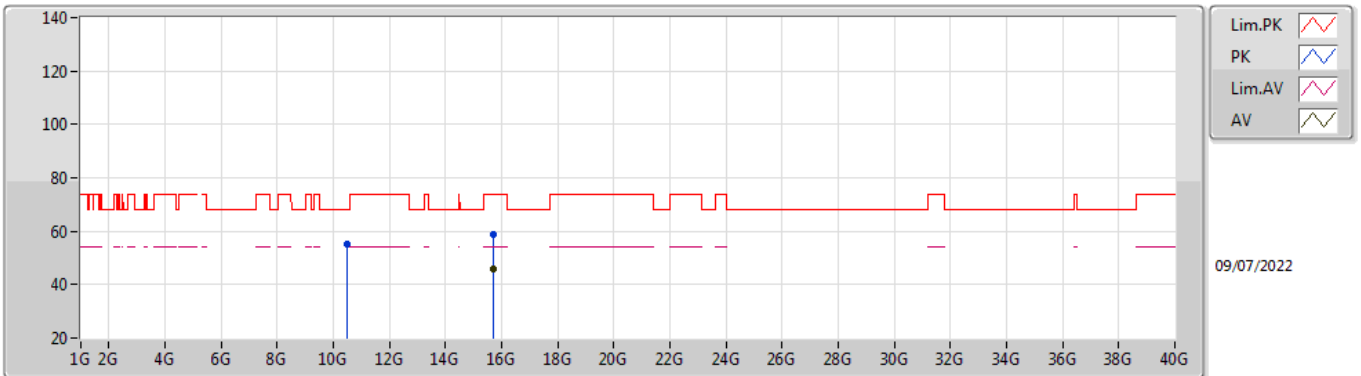


EUT_Z_2TX
Setting 23
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.48354G	54.13	68.20	-14.07	39.89	3	Vertical	220	1.05	-	38.60	7.49	31.85
PK	15.71766G	61.56	74.00	-12.44	45.63	3	Vertical	51	2.27	-	37.50	9.87	31.44
AV	15.72066G	48.82	54.00	-5.18	32.89	3	Vertical	51	2.27	-	37.50	9.87	31.44

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

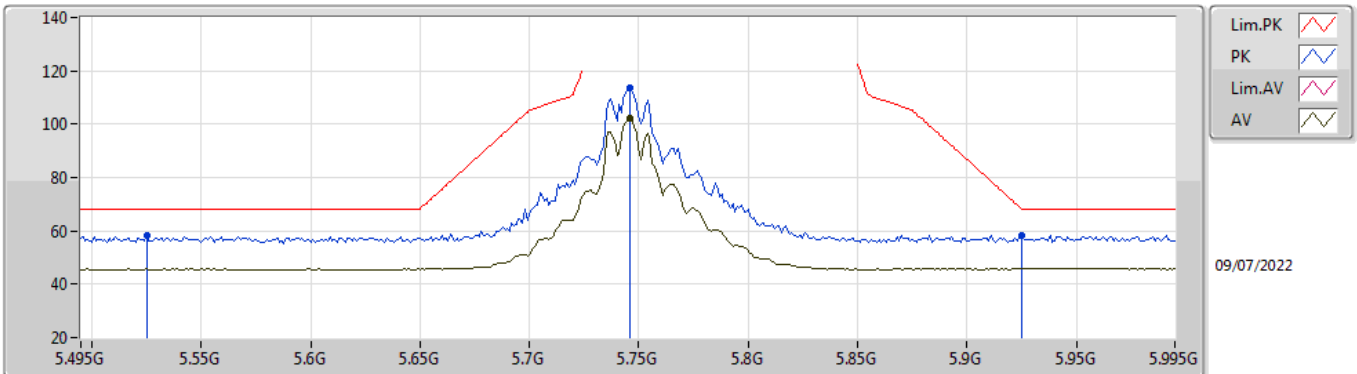


EUT_Z_2TX
Setting 23
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.48288G	55.42	68.20	-12.78	41.18	3	Horizontal	166	1.66	-	38.60	7.49	31.85
PK	15.72336G	58.75	74.00	-15.25	42.82	3	Horizontal	138	2.35	-	37.50	9.88	31.45
AV	15.7218G	45.66	54.00	-8.34	29.74	3	Horizontal	138	2.35	-	37.50	9.87	31.45

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

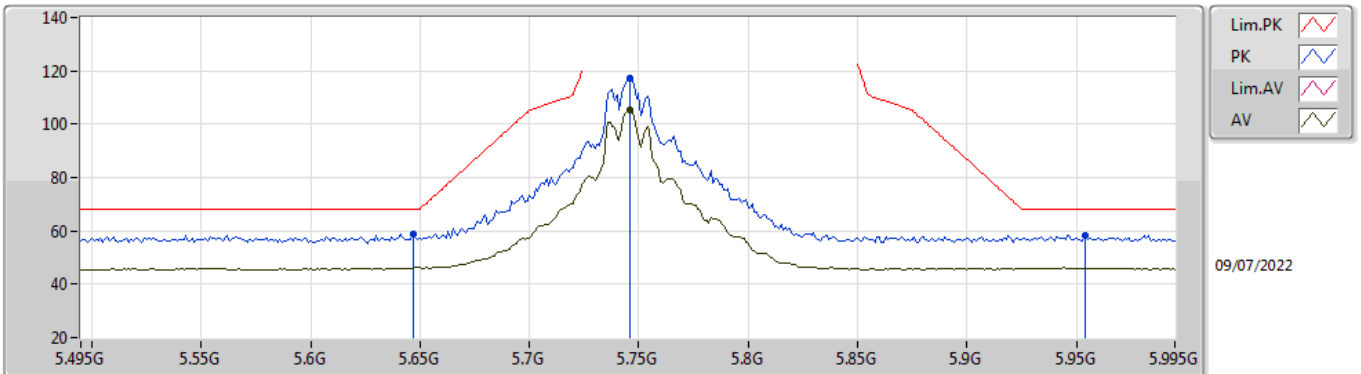


EUT V_2TX
Setting 19.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.525G	58.23	68.20	-9.97	49.44	3	Vertical	346	1.84	-	34.00	5.53	30.74	
PK	5.746G	113.66	Inf	-Inf	105.16	3	Vertical	346	1.84	-	33.81	5.60	30.91	
AV	5.746G	102.09	Inf	-Inf	93.59	3	Vertical	346	1.84	-	33.81	5.60	30.91	
PK	5.925G	58.33	68.20	-9.87	49.49	3	Vertical	346	1.84	-	34.15	5.73	31.04	

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

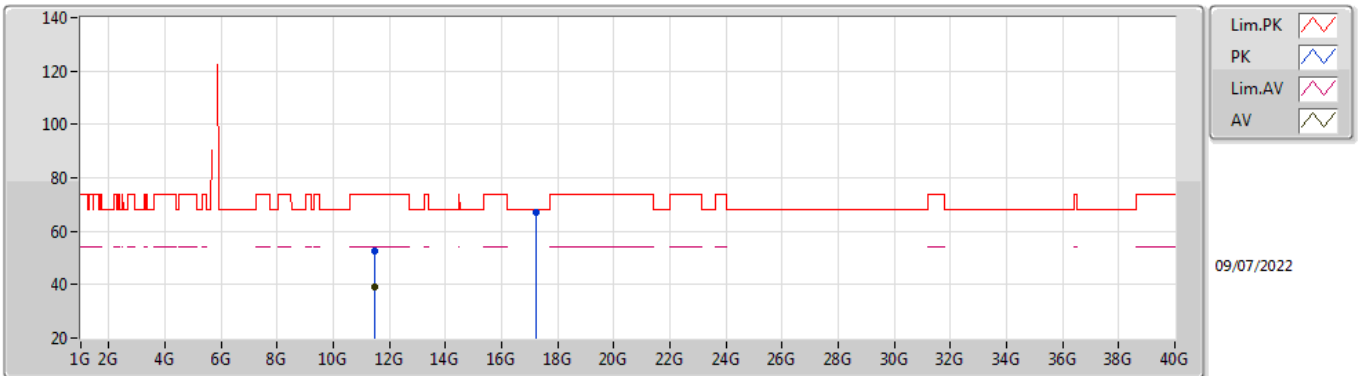


EUT V_2TX
Setting 19.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.647G	58.83	68.20	-9.37	50.25	3	Horizontal	65	1.88	-	33.81	5.60	30.83	
PK	5.746G	117.30	Inf	-Inf	108.80	3	Horizontal	65	1.88	-	33.81	5.60	30.91	
AV	5.746G	105.23	Inf	-Inf	96.73	3	Horizontal	65	1.88	-	33.81	5.60	30.91	
PK	5.954G	58.38	68.20	-9.82	49.50	3	Horizontal	65	1.88	-	34.20	5.75	31.07	

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

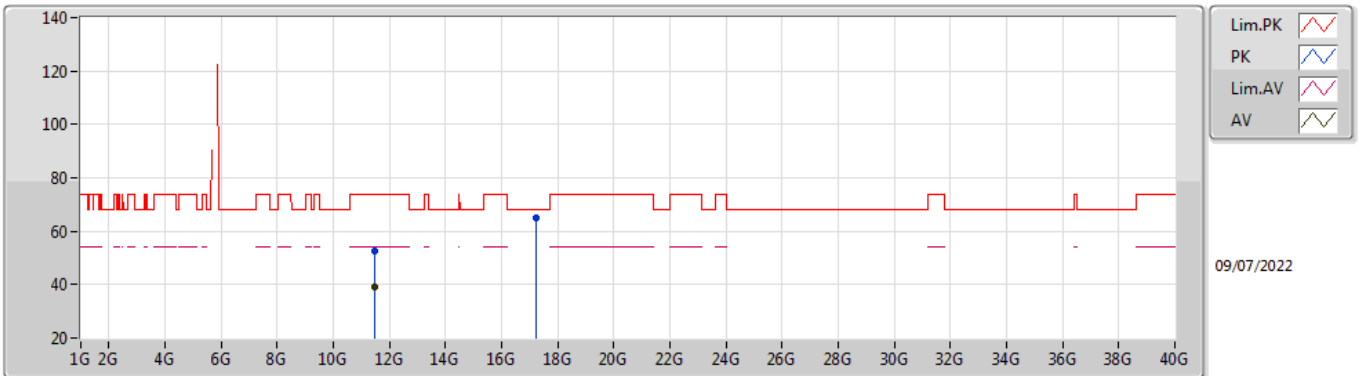


EUT_Z_2TX
Setting 19.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48394G	52.68	74.00	-21.32	37.93	3	Vertical	45	1.24	-	38.97	7.89	32.11
AV	11.4837G	38.99	54.00	-15.01	24.24	3	Vertical	45	1.24	-	38.97	7.89	32.11
PK	17.24352G	67.32	68.20	-0.88	44.72	3	Vertical	139	2.87	-	42.22	10.62	30.24

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

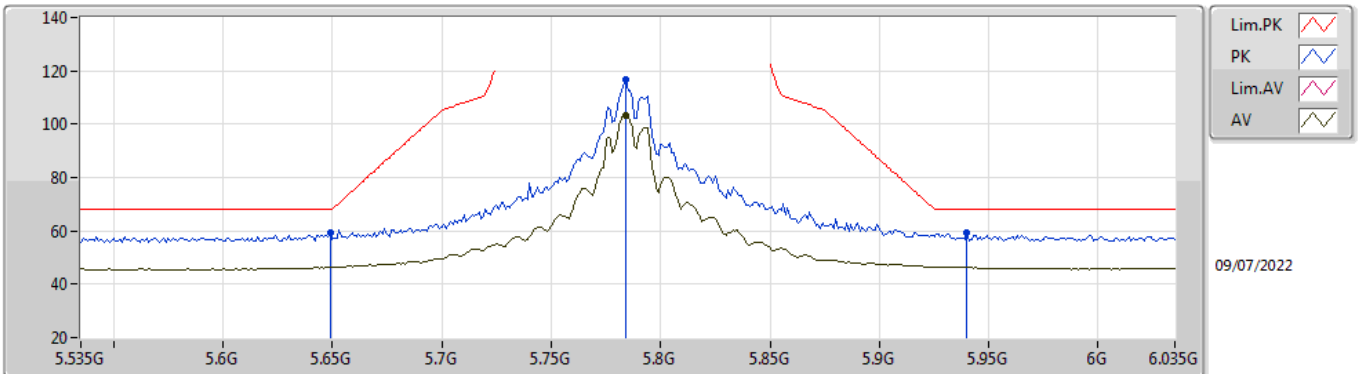


EUT_Z_2TX
Setting 19.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.47686G	52.67	74.00	-21.33	37.94	3	Horizontal	263	2.88	-	38.95	7.89	32.11	
AV	11.4837G	38.97	54.00	-15.03	24.22	3	Horizontal	263	2.88	-	38.97	7.89	32.11	
PK	17.22972G	65.24	68.20	-2.96	42.72	3	Horizontal	133	2.23	-	42.15	10.61	30.24	

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

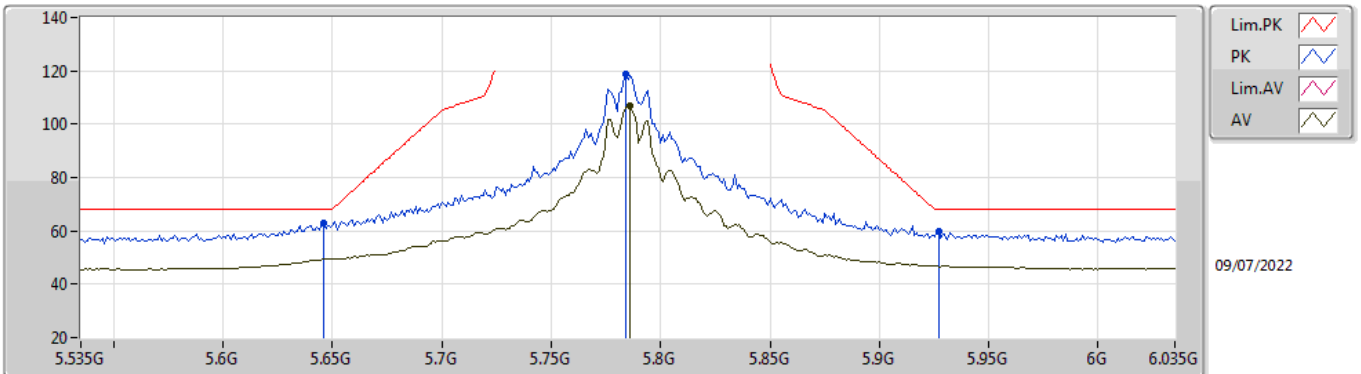


EUT V_2TX
Setting 22.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.649G	59.10	68.20	-9.10	50.53	3	Vertical	353	2.29	-	33.80	5.60	30.83	
PK	5.784G	116.72	Inf	-Inf	108.26	3	Vertical	353	2.29	-	33.80	5.60	30.94	
AV	5.784G	103.37	Inf	-Inf	94.91	3	Vertical	353	2.29	-	33.80	5.60	30.94	
PK	5.94G	59.18	68.20	-9.02	50.31	3	Vertical	353	2.29	-	34.18	5.74	31.05	

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

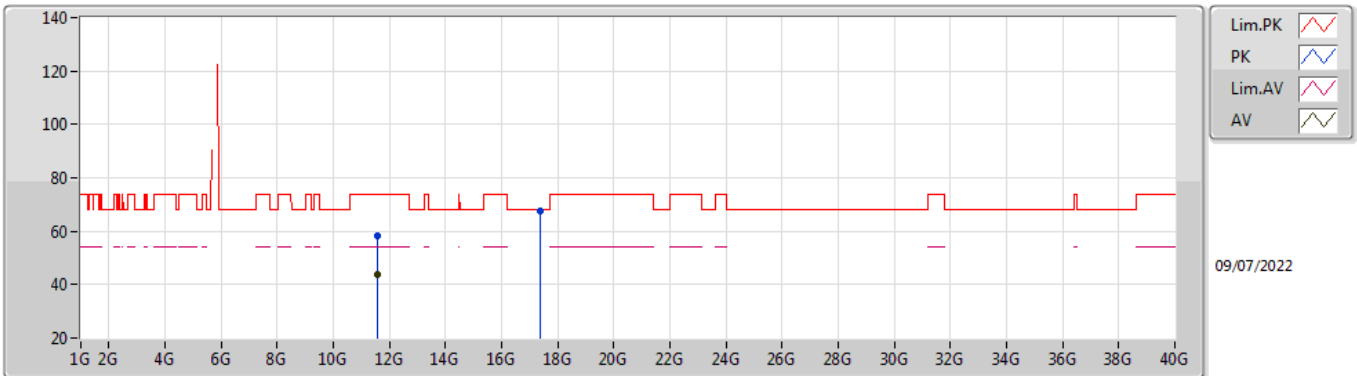


EUT V_2TX
Setting 22.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.646G	62.72	68.20	-5.48	54.14	3	Horizontal	65	2.12	-	33.81	5.60	30.83	
PK	5.784G	118.81	Inf	-Inf	110.35	3	Horizontal	65	2.12	-	33.80	5.60	30.94	
AV	5.786G	106.67	Inf	-Inf	98.21	3	Horizontal	65	2.12	-	33.80	5.60	30.94	
PK	5.927G	59.60	68.20	-8.60	50.76	3	Horizontal	65	2.12	-	34.15	5.73	31.04	

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

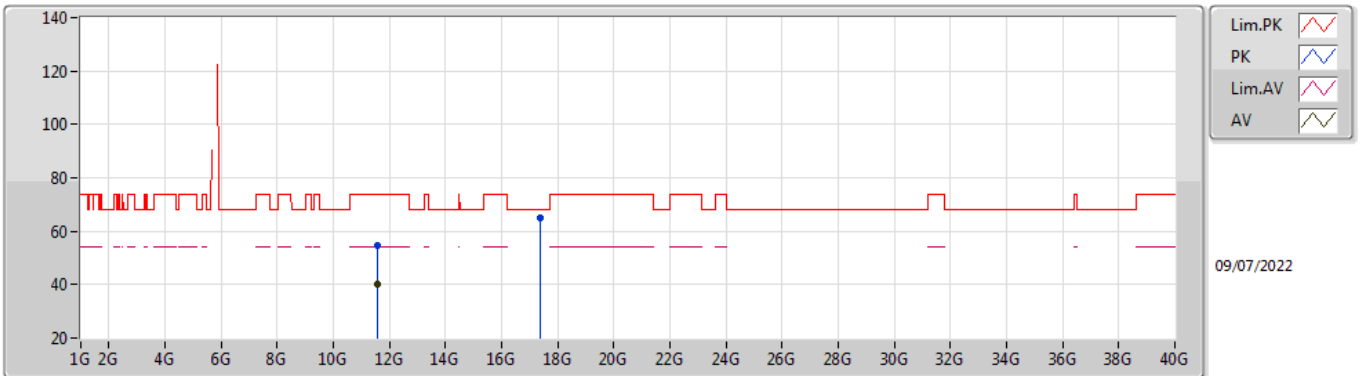


EUT_Z_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5712G	58.31	74.00	-15.69	43.33	3	Vertical	308	1.80	-	39.21	7.93	32.16
AV	11.57174G	43.72	54.00	-10.28	28.73	3	Vertical	308	1.80	-	39.22	7.93	32.16
PK	17.36424G	67.39	68.20	-0.81	44.04	3	Vertical	141	2.28	-	42.89	10.68	30.22

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

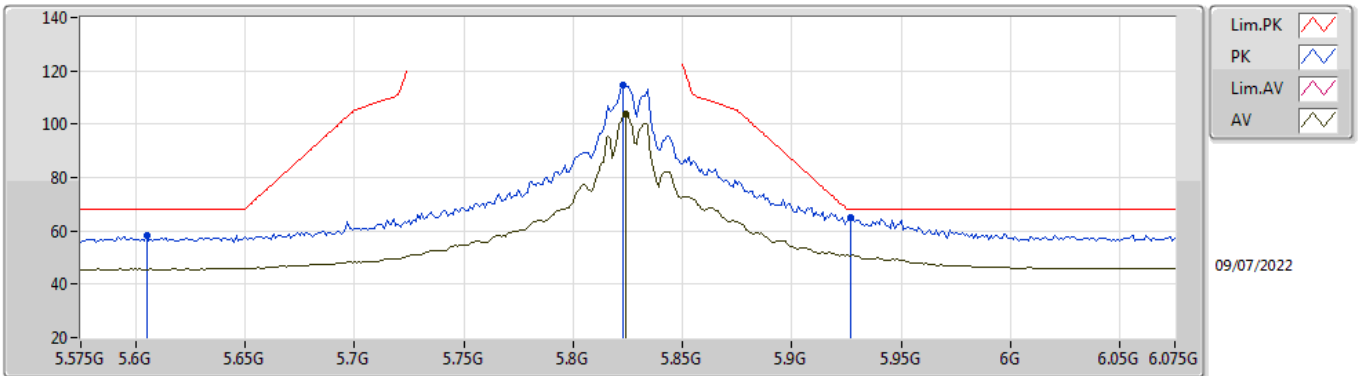


EUT_Z_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5766G	54.77	74.00	-19.23	39.77	3	Horizontal	100	1.80	-	39.23	7.93	32.16
AV	11.57552G	40.06	54.00	-13.94	25.06	3	Horizontal	100	1.80	-	39.23	7.93	32.16
PK	17.36634G	64.92	68.20	-3.28	41.56	3	Horizontal	125	2.23	-	42.90	10.68	30.22

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

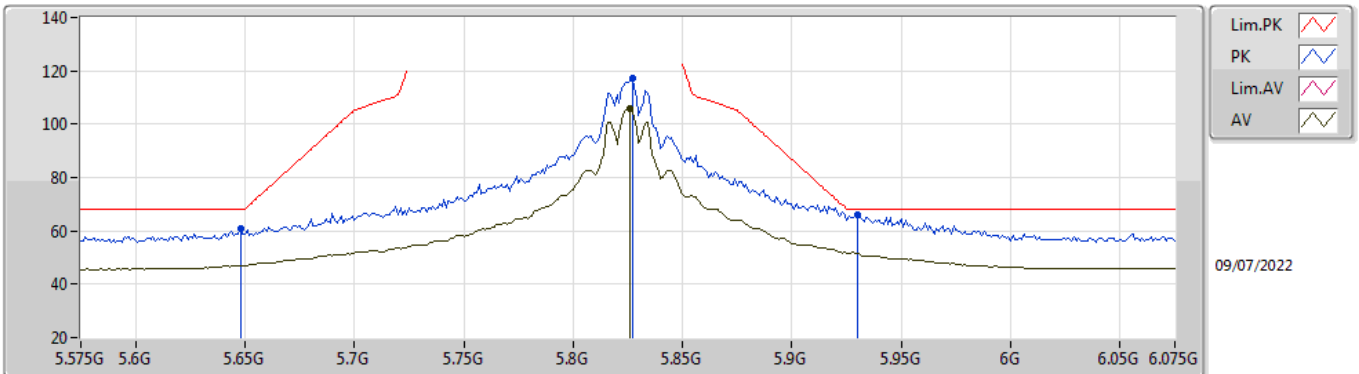


EUT V_2TX
Setting 22.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.605G	58.48	68.20	-9.72	49.79	3	Vertical	353	2.08	-	33.89	5.60	30.80	
PK	5.823G	114.53	Inf	-Inf	106.08	3	Vertical	353	2.08	-	33.80	5.62	30.97	
AV	5.824G	103.69	Inf	-Inf	95.24	3	Vertical	353	2.08	-	33.80	5.62	30.97	
PK	5.927G	64.82	68.20	-3.38	55.98	3	Vertical	353	2.08	-	34.15	5.73	31.04	

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

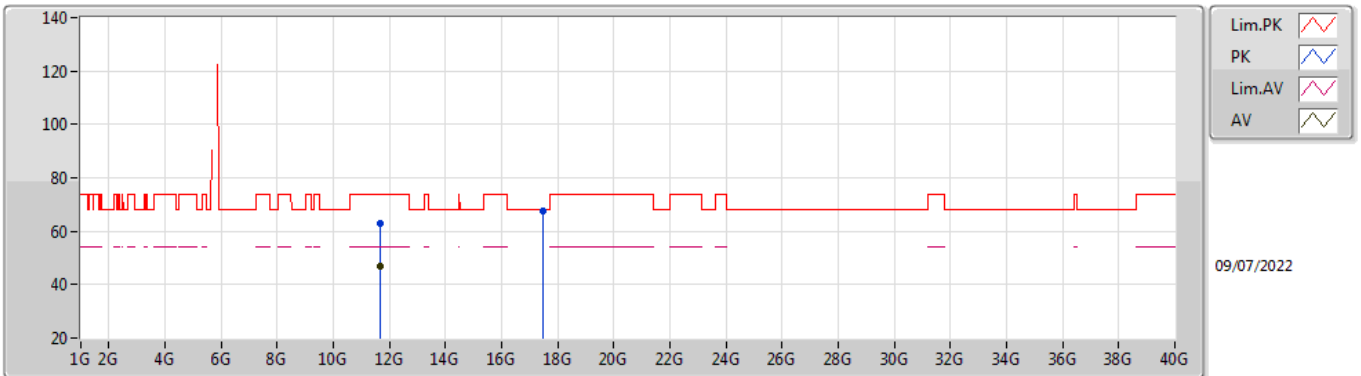


EUT V_2TX
Setting 22.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.648G	60.63	68.20	-7.57	52.06	3	Horizontal	62	2.19	-	33.80	5.60	30.83
PK	5.827G	117.48	Inf	-Inf	109.02	3	Horizontal	62	2.19	-	33.80	5.63	30.97
AV	5.826G	105.78	Inf	-Inf	97.32	3	Horizontal	62	2.19	-	33.80	5.63	30.97
PK	5.93G	66.12	68.20	-2.08	57.28	3	Horizontal	62	2.19	-	34.16	5.73	31.05

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

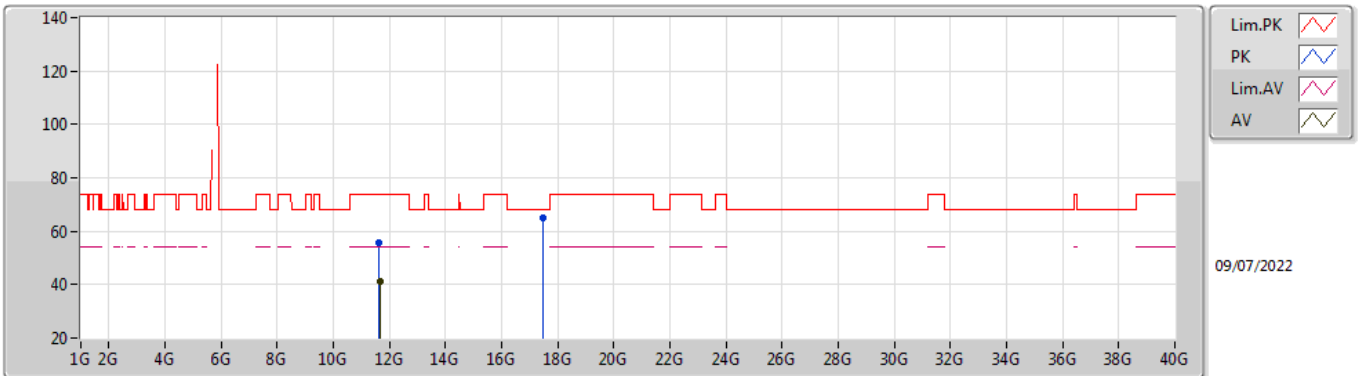


EUT_Z_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.65012G	63.02	74.00	-10.98	47.87	3	Vertical	309	1.56	-	39.40	7.96	32.21
AV	11.65186G	46.64	54.00	-7.36	31.49	3	Vertical	309	1.56	-	39.40	7.96	32.21
PK	17.47362G	67.76	68.20	-0.44	43.54	3	Vertical	56	1.55	-	43.69	10.74	30.21

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

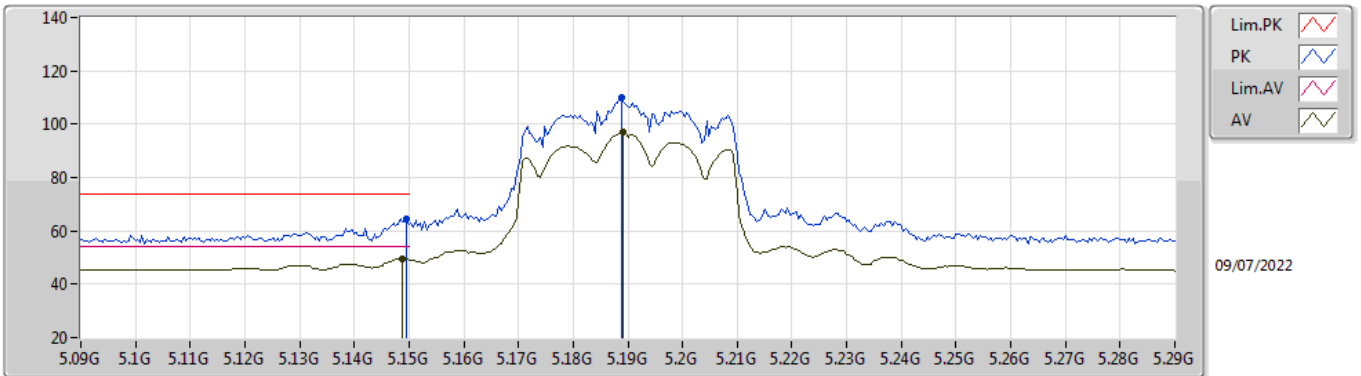


EUT_Z_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.64202G	55.71	74.00	-18.29	40.57	3	Horizontal	344	1.57	-	39.38	7.96	32.20
AV	11.65336G	41.32	54.00	-12.68	26.16	3	Horizontal	344	1.57	-	39.41	7.96	32.21
PK	17.46876G	65.05	68.20	-3.15	40.88	3	Horizontal	127	2.22	-	43.65	10.73	30.21

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

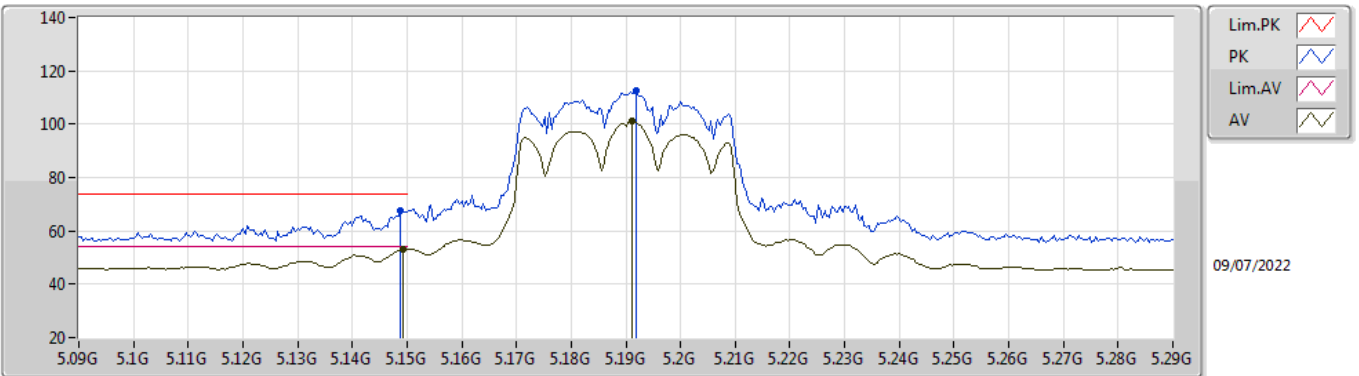


EUT_V_2TX
Setting 17
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.1496G	64.48	74.00	-9.52	56.36	3	Vertical	35	1.05	-	33.60	5.25	30.73	
AV	5.1488G	49.49	54.00	-4.51	41.37	3	Vertical	35	1.05	-	33.60	5.25	30.73	
PK	5.1888G	109.85	Inf	-Inf	101.61	3	Vertical	35	1.05	-	33.68	5.29	30.73	
AV	5.1892G	97.02	Inf	-Inf	88.78	3	Vertical	35	1.05	-	33.68	5.29	30.73	

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

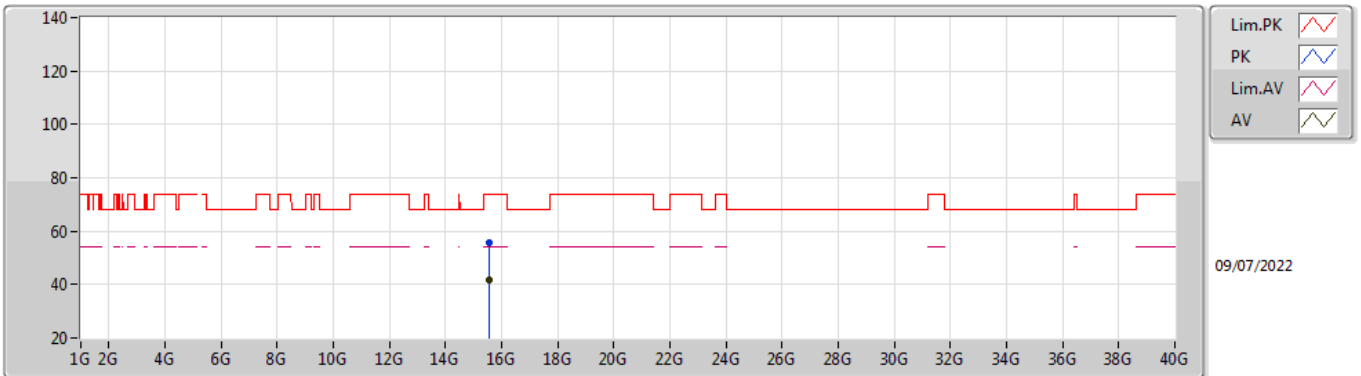


EUT_V_2TX
Setting 17
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1488G	67.79	74.00	-6.21	59.67	3	Horizontal	298	2.06	-	33.60	5.25	30.73
AV	5.1492G	53.19	54.00	-0.81	45.07	3	Horizontal	298	2.06	-	33.60	5.25	30.73
PK	5.192G	112.62	Inf	-Inf	104.38	3	Horizontal	298	2.06	-	33.68	5.29	30.73
AV	5.1912G	101.07	Inf	-Inf	92.83	3	Horizontal	298	2.06	-	33.68	5.29	30.73

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

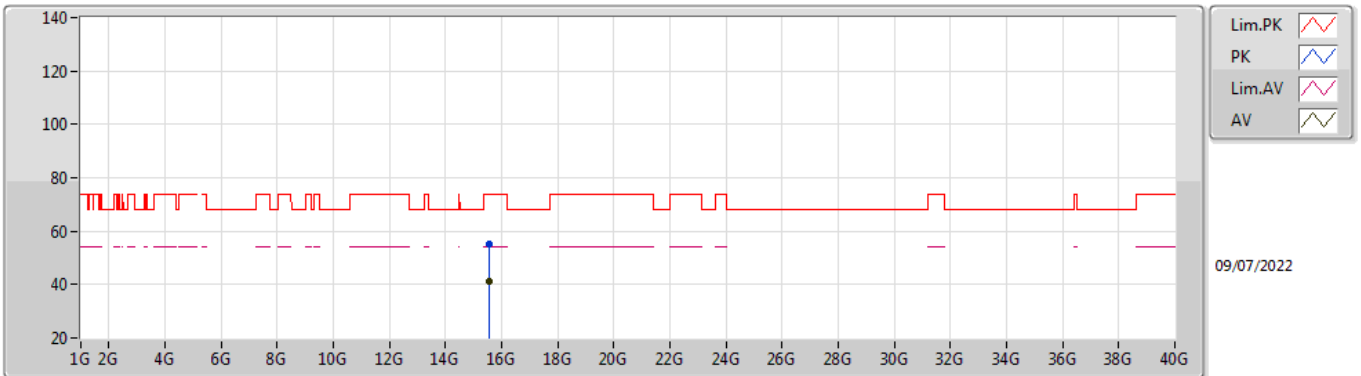


EUT_Z_2TX
Setting 17
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.5778G	55.72	74.00	-18.28	39.65	3	Vertical	42	2.84	-	37.63	9.81	31.37	
AV	15.567G	41.94	54.00	-12.06	25.79	3	Vertical	42	2.84	-	37.70	9.81	31.36	

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

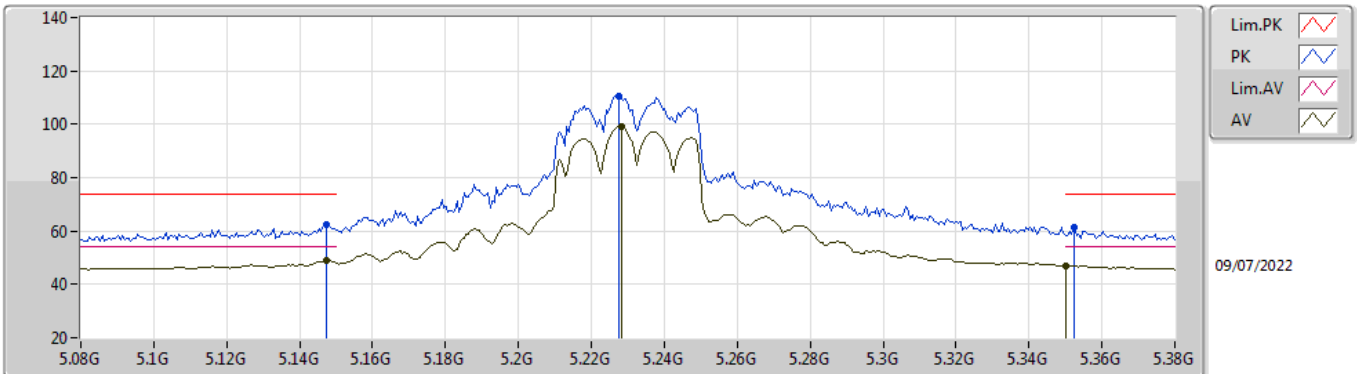


EUT_Z_2TX
Setting 17
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.58176G	54.95	74.00	-19.05	38.90	3	Horizontal	124	2.84	-	37.61	9.81	31.37	
AV	15.57936G	41.43	54.00	-12.57	25.37	3	Horizontal	124	2.84	-	37.62	9.81	31.37	

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

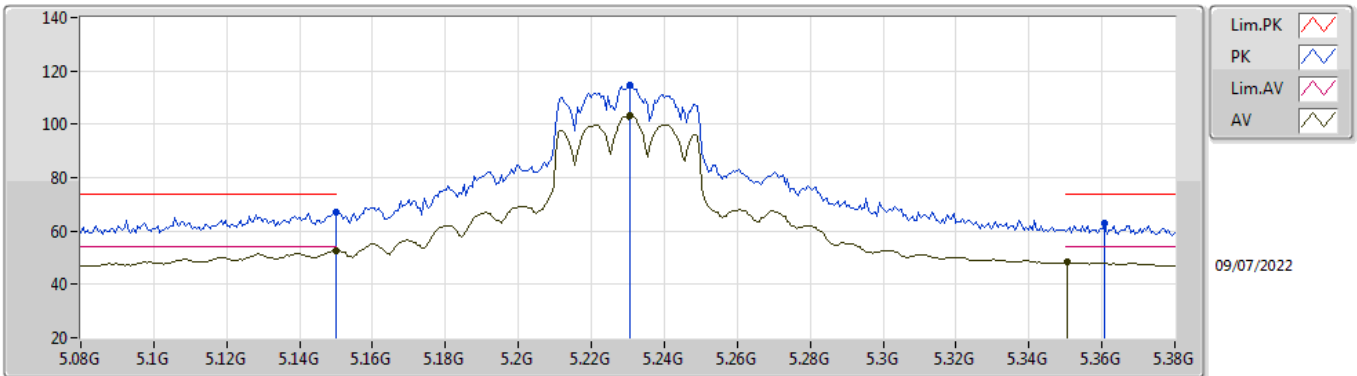


EUT V_2TX
Setting 19.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1472G	62.41	74.00	-11.59	54.30	3	Vertical	42	1.27	-	33.59	5.25	30.73
AV	5.1472G	48.91	54.00	-5.09	40.80	3	Vertical	42	1.27	-	33.59	5.25	30.73
PK	5.2276G	110.44	Inf	-Inf	102.16	3	Vertical	42	1.27	-	33.70	5.31	30.73
AV	5.2282G	99.23	Inf	-Inf	90.95	3	Vertical	42	1.27	-	33.70	5.31	30.73
PK	5.3524G	61.17	74.00	-12.83	52.61	3	Vertical	42	1.27	-	33.90	5.38	30.72
AV	5.35G	46.93	54.00	-7.07	38.37	3	Vertical	42	1.27	-	33.90	5.38	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

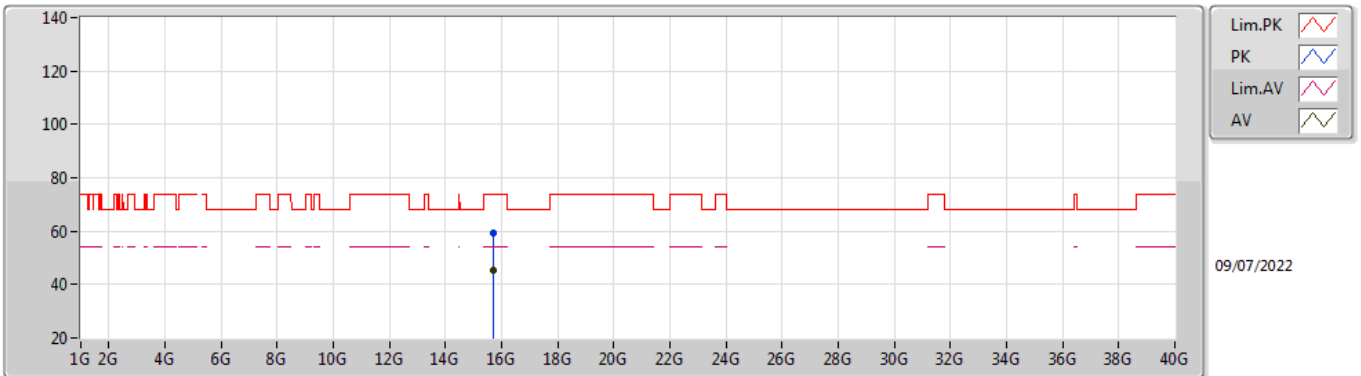


EUT V_2TX
Setting 19.5
02-B-E-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	67.30	74.00	-6.70	59.18	3	Horizontal	306	2.17	-	33.60	5.25	30.73
AV	5.15G	52.49	54.00	-1.51	44.37	3	Horizontal	306	2.17	-	33.60	5.25	30.73
PK	5.2306G	114.68	Inf	-Inf	106.39	3	Horizontal	306	2.17	-	33.70	5.32	30.73
AV	5.2306G	103.39	Inf	-Inf	95.10	3	Horizontal	306	2.17	-	33.70	5.32	30.73
PK	5.3608G	62.80	74.00	-11.20	54.22	3	Horizontal	306	2.17	-	33.92	5.38	30.72
AV	5.3506G	48.21	54.00	-5.79	39.65	3	Horizontal	306	2.17	-	33.90	5.38	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

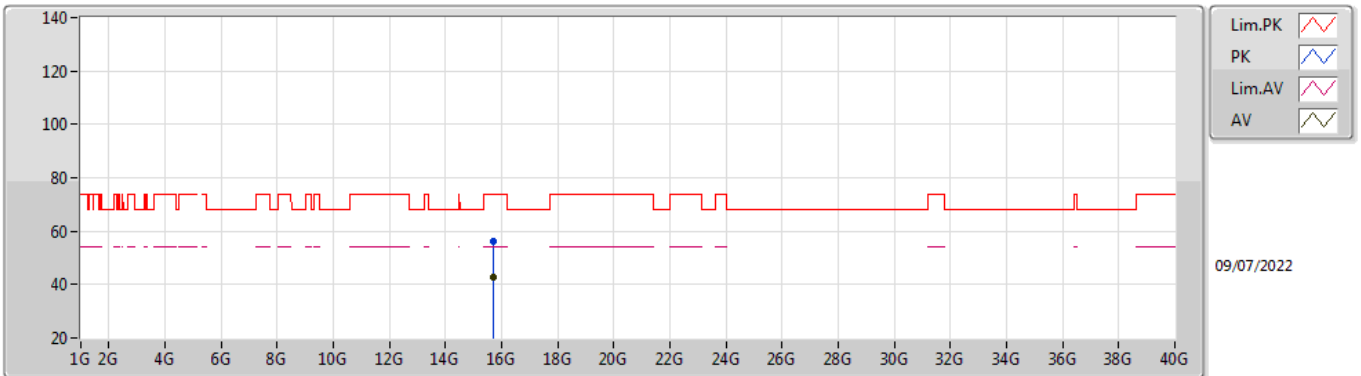


EUT_Z_2TX
Setting 19.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.69048G	59.07	74.00	-14.93	43.14	3	Vertical	53	2.29	-	37.50	9.86	31.43
AV	15.69834G	45.47	54.00	-8.53	29.54	3	Vertical	53	2.29	-	37.50	9.86	31.43

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

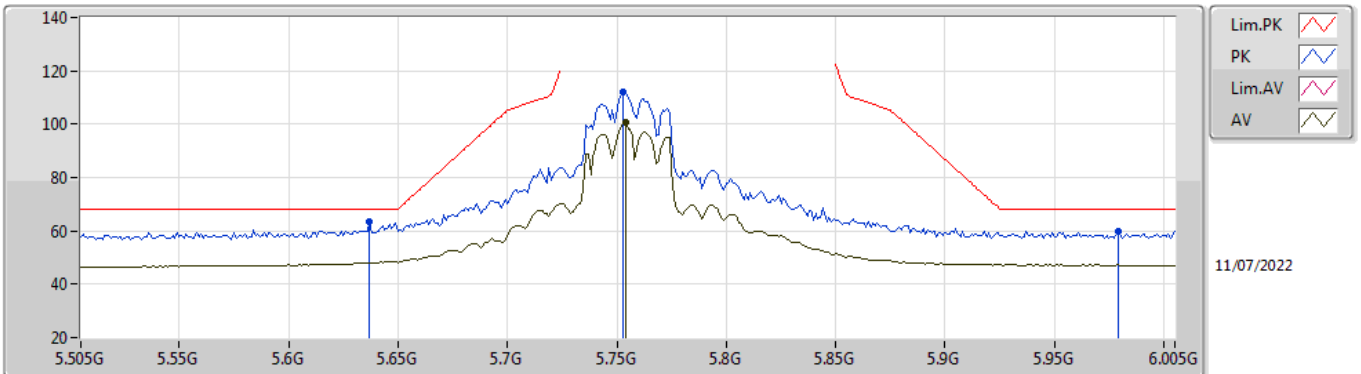


EUT_Z_2TX
Setting 19.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.69636G	56.36	74.00	-17.64	40.43	3	Horizontal	143	2.34	-	37.50	9.86	31.43	
AV	15.69426G	42.73	54.00	-11.27	26.80	3	Horizontal	143	2.34	-	37.50	9.86	31.43	

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

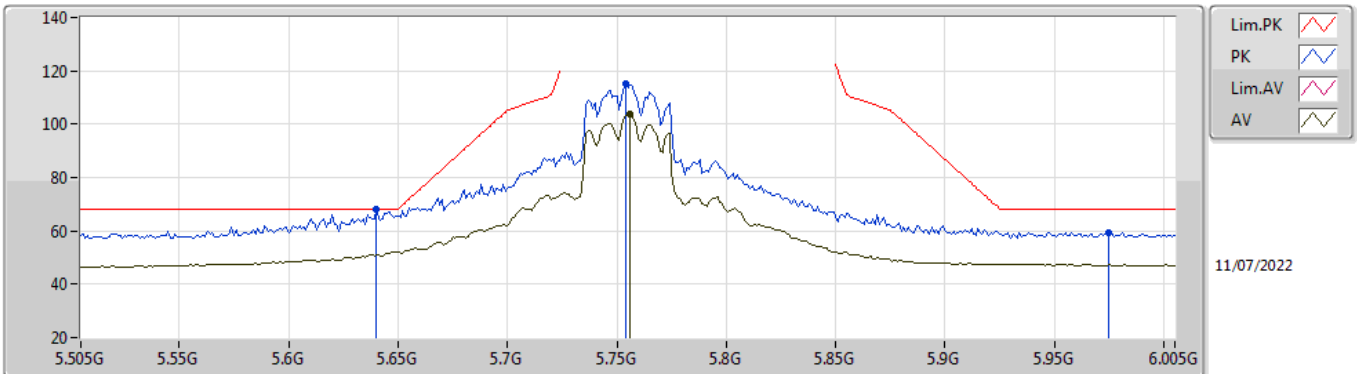


EUT V_2TX
Setting 20.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.637G	63.68	68.20	-4.52	56.64	3	Vertical	356	2.14	-	34.53	7.40	34.89
PK	5.753G	112.21	Inf	-Inf	105.53	3	Vertical	356	2.14	-	34.20	7.40	34.92
AV	5.754G	100.59	Inf	-Inf	93.91	3	Vertical	356	2.14	-	34.20	7.40	34.92
PK	5.979G	60.06	68.20	-8.14	52.65	3	Vertical	356	2.14	-	34.80	7.58	34.97

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

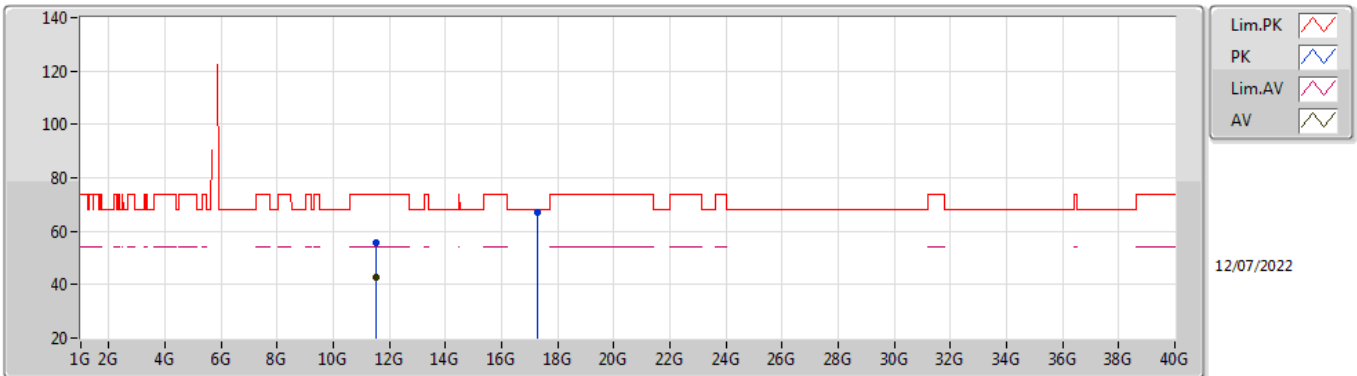


EUT V_2TX
Setting 20.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.64G	67.97	68.20	-0.23	60.94	3	Horizontal	64	2.03	-	34.52	7.40	34.89	
PK	5.754G	115.31	Inf	-Inf	108.63	3	Horizontal	64	2.03	-	34.20	7.40	34.92	
AV	5.756G	103.74	Inf	-Inf	97.06	3	Horizontal	64	2.03	-	34.20	7.40	34.92	
PK	5.975G	59.49	68.20	-8.71	52.08	3	Horizontal	64	2.03	-	34.80	7.57	34.96	

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

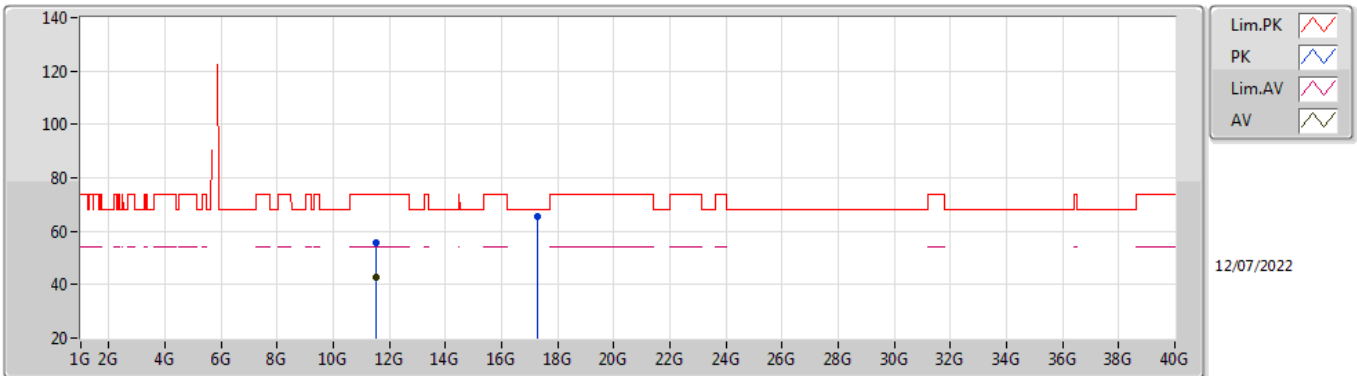


EUT_Z_2TX
Setting 20.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.5308G	55.56	74.00	-18.44	40.59	3	Vertical	258	1.77	-	39.12	10.73	34.88	
AV	11.5076G	42.52	54.00	-11.48	27.62	3	Vertical	258	1.77	-	39.03	10.73	34.86	
PK	17.269G	67.19	68.20	-1.01	46.04	3	Vertical	52	2.55	-	41.01	14.29	34.15	

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

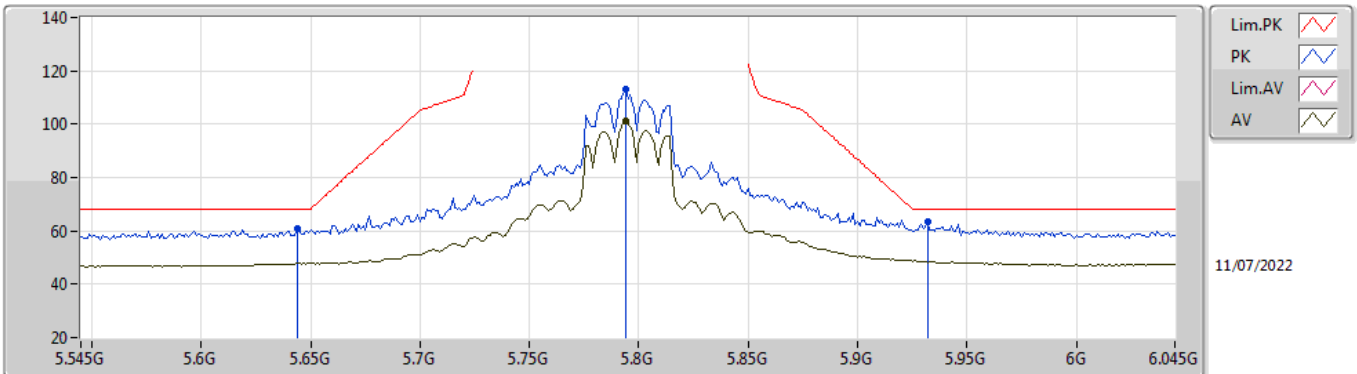


EUT_Z_2TX
Setting 20.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.51832G	55.65	74.00	-18.35	40.72	3	Horizontal	111	2.47	-	39.07	10.73	34.87
AV	11.51888G	42.56	54.00	-11.44	27.62	3	Horizontal	111	2.47	-	39.08	10.73	34.87
PK	17.29924G	65.43	68.20	-2.77	44.07	3	Horizontal	131	2.90	-	41.20	14.31	34.15

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

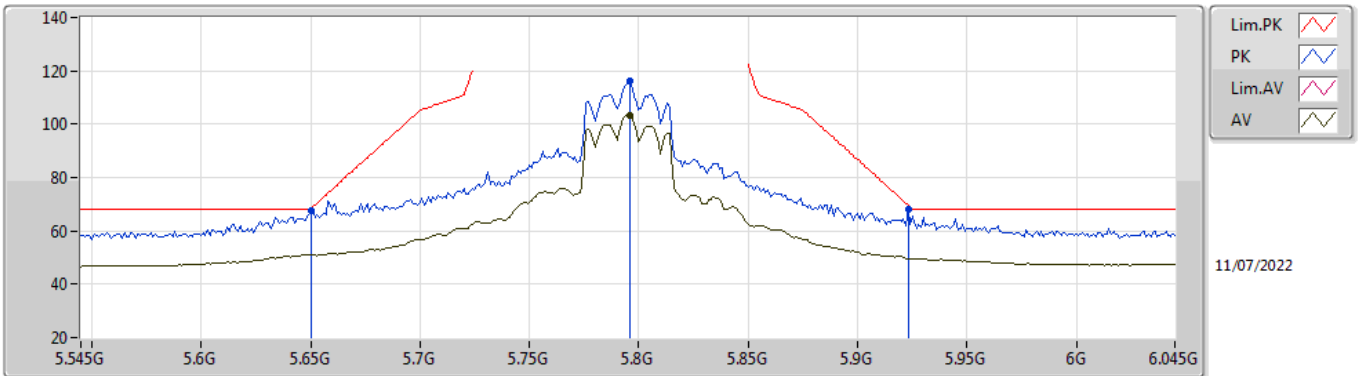


EUT V_2TX
Setting 20.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.644G	60.93	68.20	-7.27	53.91	3	Vertical	354	2.13	-	34.51	7.40	34.89	
PK	5.794G	113.20	Inf	-Inf	106.52	3	Vertical	354	2.13	-	34.20	7.40	34.92	
AV	5.794G	101.02	Inf	-Inf	94.34	3	Vertical	354	2.13	-	34.20	7.40	34.92	
PK	5.932G	63.31	68.20	-4.89	56.01	3	Vertical	354	2.13	-	34.73	7.53	34.96	

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

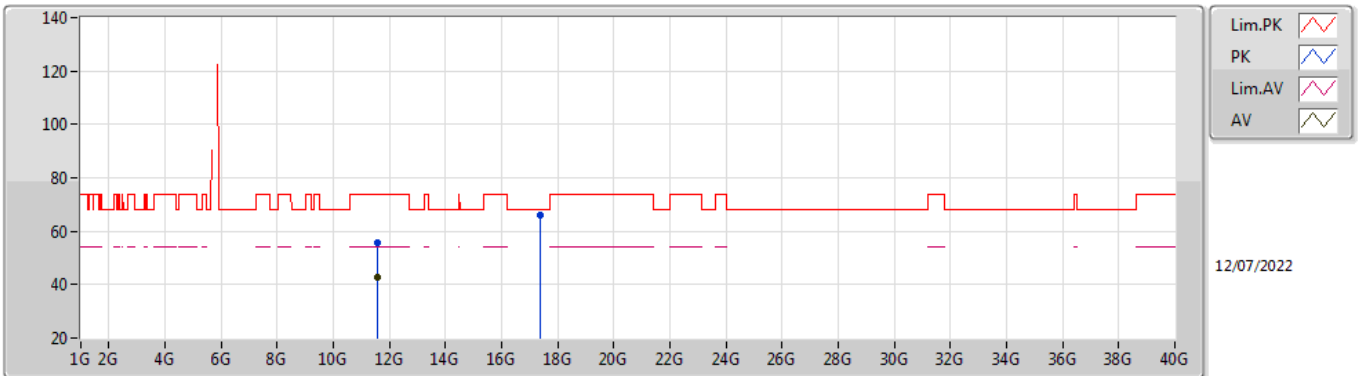


EUT V_2TX
Setting 20.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.65G	67.63	68.20	-0.57	60.62	3	Horizontal	68	2.09	-	34.50	7.40	34.89	
PK	5.796G	116.40	Inf	-Inf	109.73	3	Horizontal	68	2.09	-	34.20	7.40	34.93	
AV	5.796G	103.41	Inf	-Inf	96.74	3	Horizontal	68	2.09	-	34.20	7.40	34.93	
PK	5.923G	67.97	69.68	-1.71	60.71	3	Horizontal	68	2.09	-	34.69	7.52	34.95	

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

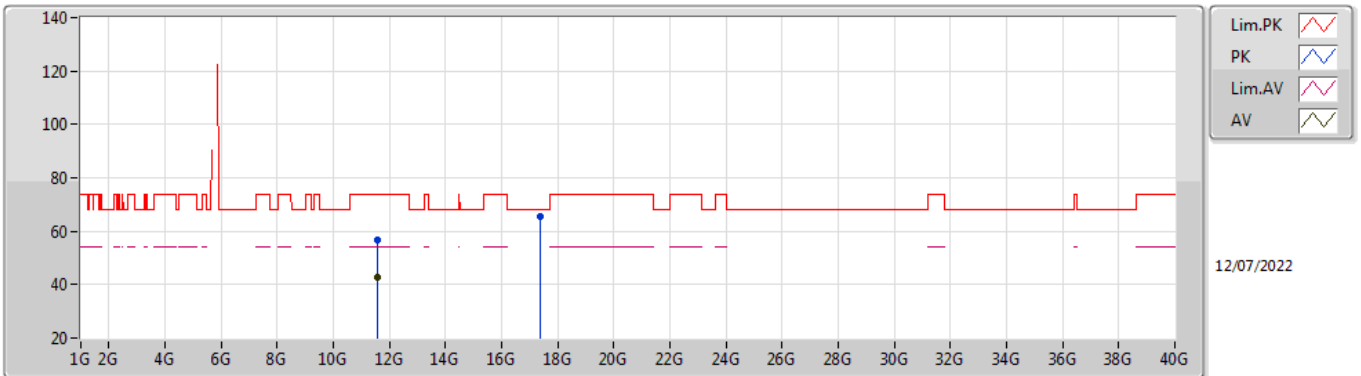


EUT_Z_2TX
Setting 20.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.59736G	55.94	74.00	-18.06	40.72	3	Vertical	292	1.81	-	39.39	10.74	34.91
AV	11.58456G	42.83	54.00	-11.17	27.65	3	Vertical	292	1.81	-	39.34	10.74	34.90
PK	17.385G	65.80	68.20	-2.40	44.07	3	Vertical	345	1.90	-	41.54	14.37	34.18

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

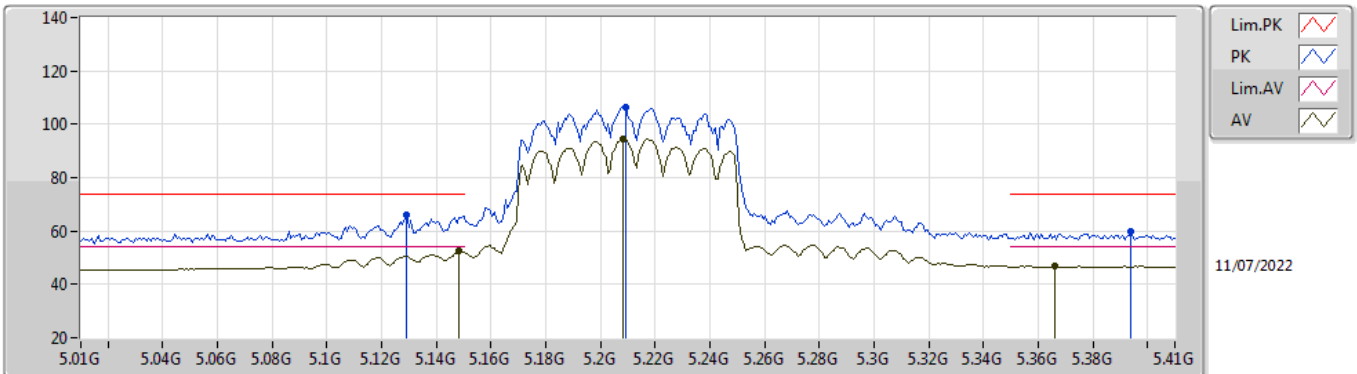


EUT_Z_2TX
Setting 20.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.59272G	56.93	74.00	-17.07	41.73	3	Horizontal	91	2.92	-	39.37	10.74	34.91
AV	11.59136G	42.68	54.00	-11.32	27.48	3	Horizontal	91	2.92	-	39.37	10.74	34.91
PK	17.38512G	65.74	68.20	-2.46	44.01	3	Horizontal	263	1.32	-	41.54	14.37	34.18

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

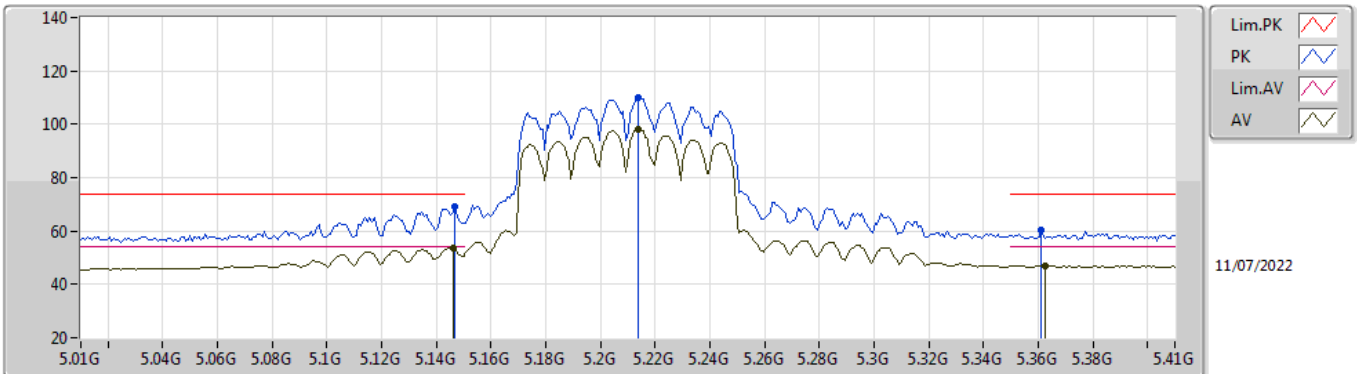


EUT_V_2TX
Setting 16.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1292G	66.06	74.00	-7.94	59.82	3	Vertical	46	1.02	-	33.96	7.16	34.88
AV	5.1484G	52.35	54.00	-1.65	46.06	3	Vertical	46	1.02	-	34.00	7.17	34.88
PK	5.2092G	106.22	Inf	-Inf	99.66	3	Vertical	46	1.02	-	34.24	7.20	34.88
AV	5.2084G	94.53	Inf	-Inf	87.98	3	Vertical	46	1.02	-	34.23	7.20	34.88
PK	5.394G	59.79	74.00	-14.21	52.87	3	Vertical	46	1.02	-	34.59	7.20	34.87
AV	5.366G	46.80	54.00	-7.20	39.94	3	Vertical	46	1.02	-	34.53	7.20	34.87

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

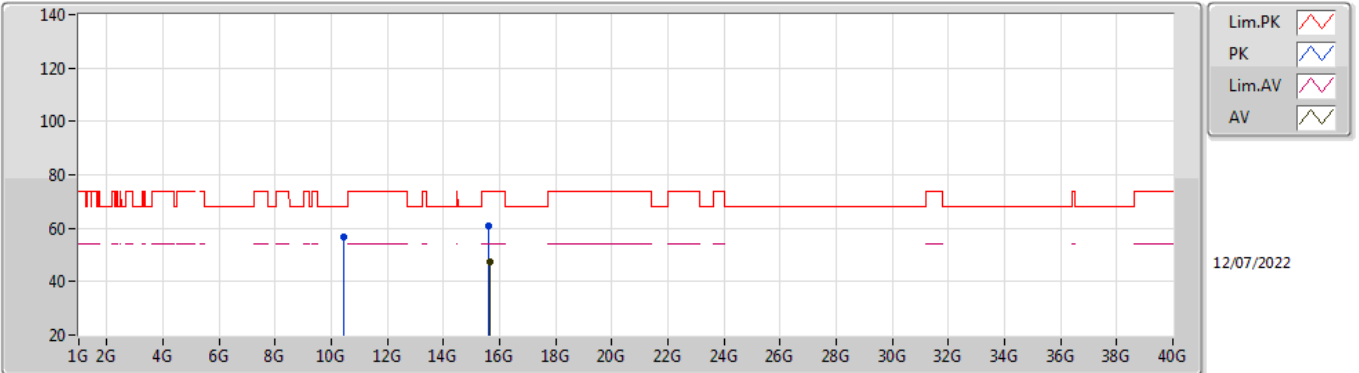


EUT_V_2TX
Setting 16.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1468G	68.99	74.00	-5.01	62.71	3	Horizontal	114	2.11	-	33.99	7.17	34.88
AV	5.146G	53.87	54.00	-0.13	47.59	3	Horizontal	114	2.11	-	33.99	7.17	34.88
PK	5.214G	109.78	Inf	-Inf	103.20	3	Horizontal	114	2.11	-	34.26	7.20	34.88
AV	5.214G	98.27	Inf	-Inf	91.69	3	Horizontal	114	2.11	-	34.26	7.20	34.88
PK	5.3612G	60.09	74.00	-13.91	53.24	3	Horizontal	114	2.11	-	34.52	7.20	34.87
AV	5.3628G	47.07	54.00	-6.93	40.21	3	Horizontal	114	2.11	-	34.53	7.20	34.87

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

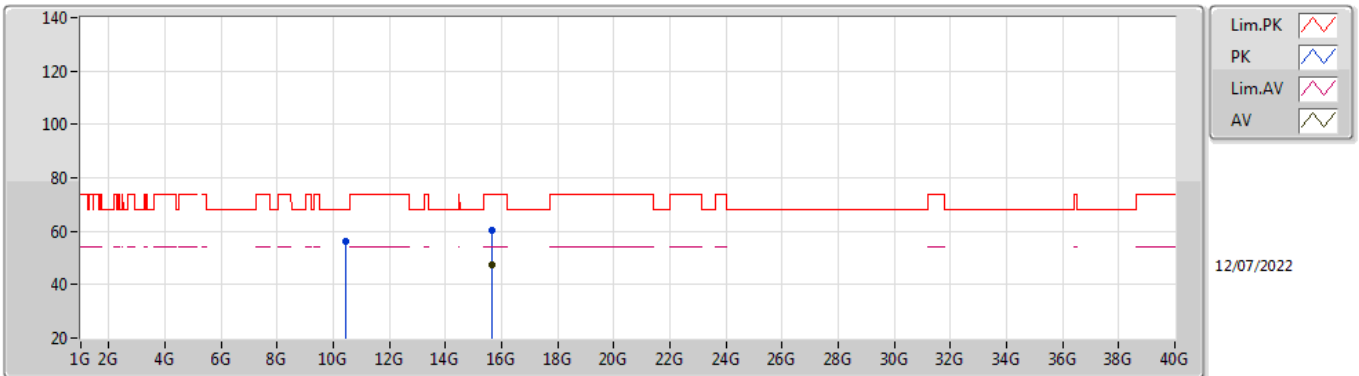


EUT_Z_2TX
Setting 16.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.424G	56.84	68.20	-11.36	41.46	3	Vertical	314	2.32	-	38.20	10.56	33.38
PK	15.62392G	60.68	74.00	-13.32	44.16	3	Vertical	356	2.86	-	37.88	13.21	34.57
AV	15.6364G	47.29	54.00	-6.71	30.83	3	Vertical	356	2.86	-	37.82	13.22	34.58

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

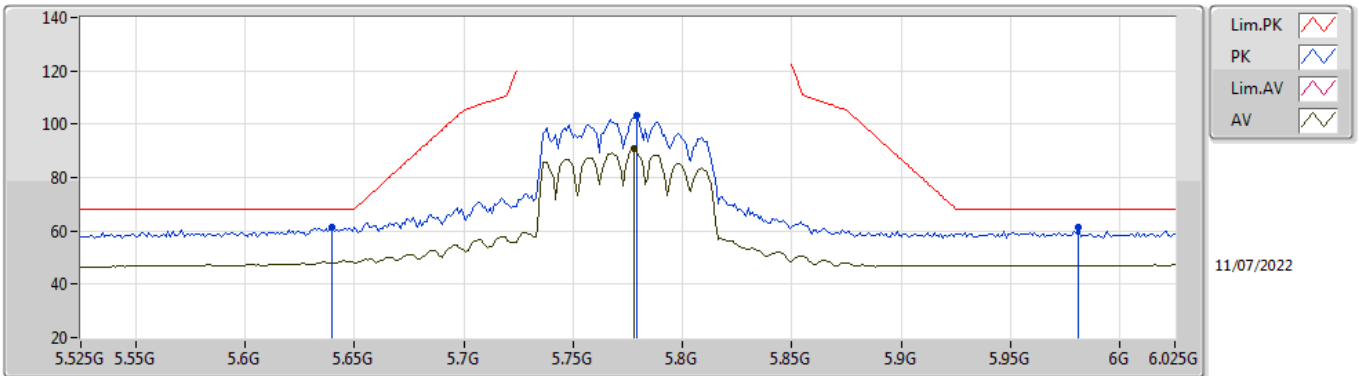


EUT_Z_2TX
Setting 16.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.42888G	56.23	68.20	-11.97	40.83	3	Horizontal	183	1.59	-	38.20	10.56	33.36
PK	15.6388G	60.58	74.00	-13.42	44.13	3	Horizontal	4	1.66	-	37.81	13.22	34.58
AV	15.63256G	47.30	54.00	-6.70	30.82	3	Horizontal	4	1.66	-	37.84	13.22	34.58

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

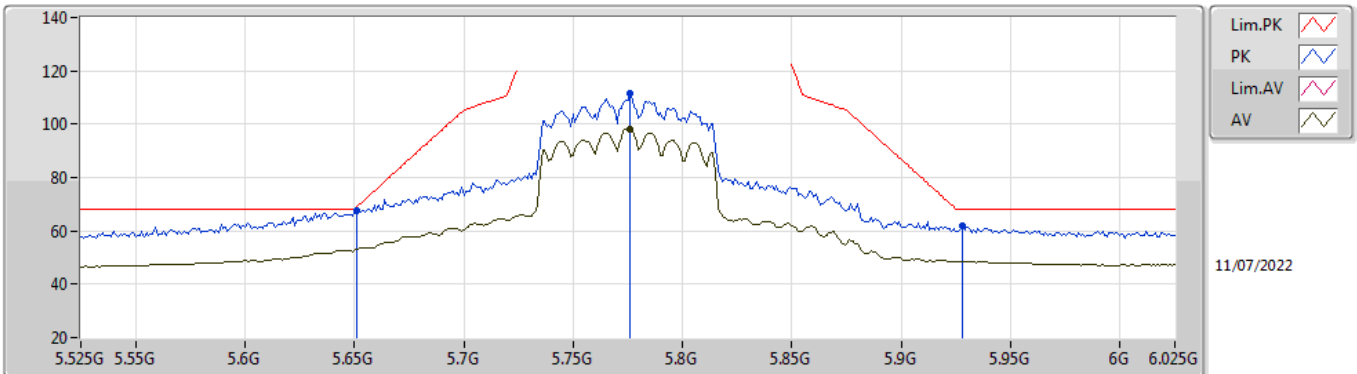


EUT V_2TX
Setting 18.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.64G	61.26	68.20	-6.94	54.23	3	Vertical	0	1.80	-	34.52	7.40	34.89	
PK	5.779G	103.29	Inf	-Inf	96.61	3	Vertical	0	1.80	-	34.20	7.40	34.92	
AV	5.778G	90.71	Inf	-Inf	84.03	3	Vertical	0	1.80	-	34.20	7.40	34.92	
PK	5.981G	61.26	68.20	-6.94	53.85	3	Vertical	0	1.80	-	34.80	7.58	34.97	

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

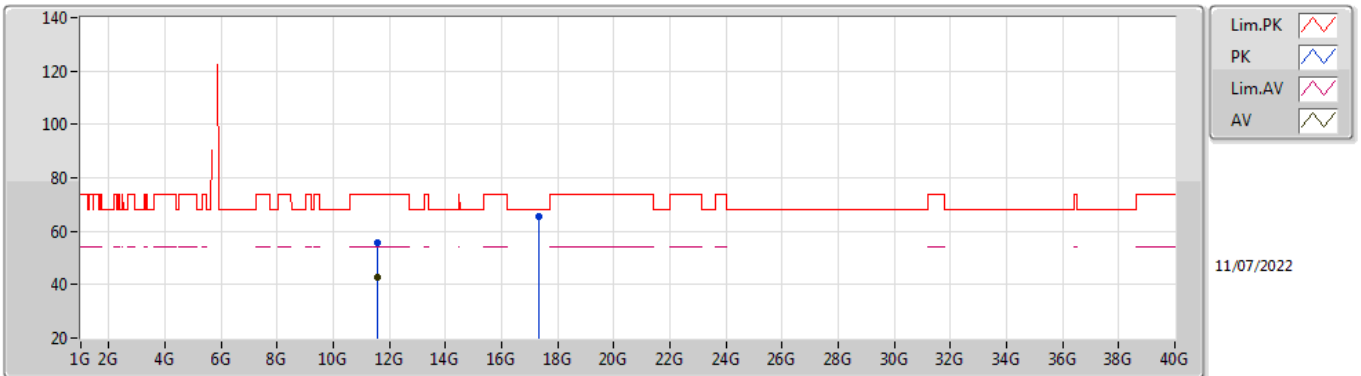


EUT V_2TX
Setting 18.5
03-D-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.651G	67.83	68.94	-1.11	60.82	3	Horizontal	68	2.09	-	34.50	7.40	34.89	
PK	5.776G	111.62	Inf	-Inf	104.94	3	Horizontal	68	2.09	-	34.20	7.40	34.92	
AV	5.776G	98.30	Inf	-Inf	91.62	3	Horizontal	68	2.09	-	34.20	7.40	34.92	
PK	5.928G	62.06	68.20	-6.14	54.77	3	Horizontal	68	2.09	-	34.71	7.53	34.95	

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

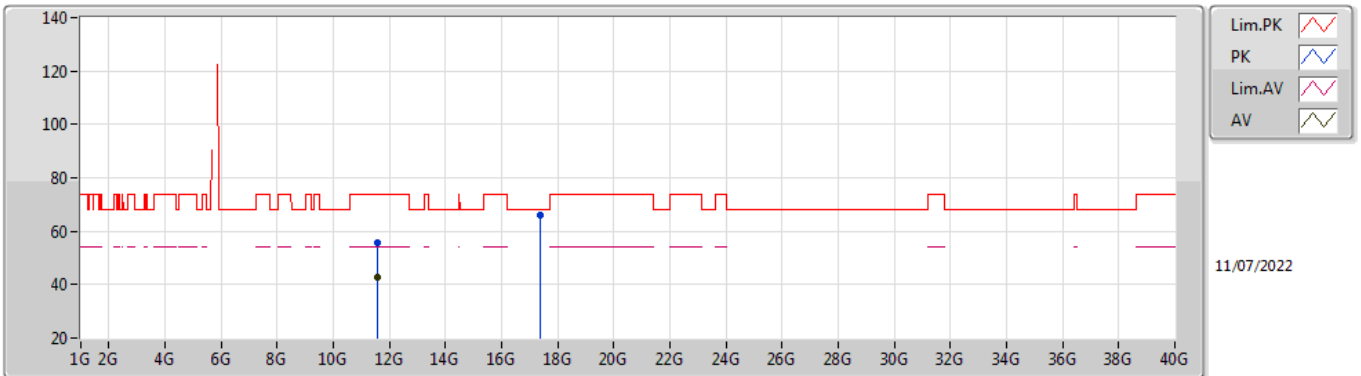


EUT_Z_2TX
Setting 18.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.55672G	55.73	74.00	-18.27	40.66	3	Vertical	360	1.83	-	39.23	10.73	34.89
AV	11.558G	42.78	54.00	-11.22	27.71	3	Vertical	360	1.83	-	39.23	10.73	34.89
PK	17.30692G	65.68	68.20	-2.52	44.30	3	Vertical	289	1.80	-	41.23	14.31	34.16

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom



EUT_Z_2TX
Setting 18.5
03-D-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5676G	55.75	74.00	-18.25	40.63	3	Horizontal	280	1.91	-	39.27	10.74	34.89
AV	11.58152G	42.68	54.00	-11.32	27.51	3	Horizontal	280	1.91	-	39.33	10.74	34.90
PK	17.35572G	65.92	68.20	-2.28	44.32	3	Horizontal	9	1.80	-	41.42	14.35	34.17