

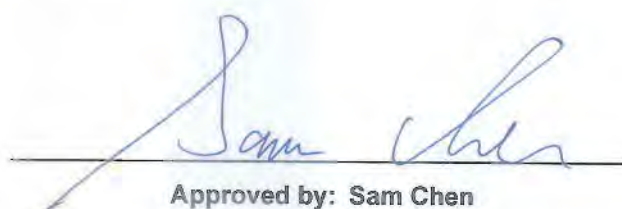


RADIO TEST REPORT

FCC ID : 2AYRA-08330
Equipment : Velop AX3000 WiFi 6 System
Brand Name : LINKSYS
Model Name : MX2000, MX20EC, MX20MS, MX20WH
Applicant : Linksys USA, Inc.
12045 East Waterfront Drive
Playa Vista, CA 90094, United States.
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 13, 2021, and testing was started from Jul. 13, 2021 and completed on Oct. 05, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



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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:

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

Comments and Explanations:

The 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: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5850-5895	a, n (HT20), ac (VHT20), ax (HEW20)	5845-5885	169-177[3]
5850-5895	n (HT40), ac (VHT40), ax (HEW40)	5835-5875	167-175[2]
5850-5895	ac (VHT80), ax (HEW80)	5855	171[1]
5850-5895	ac (VHT160), ax (HEW160)	5815	163[1]

Band	Mode	BWch (MHz)	Nant
5.85-5.895GHz	802.11a	20	2TX
5.85-5.895GHz	802.11n HT20	20	2TX
5.85-5.895GHz	802.11n HT20-BF	20	2TX
5.85-5.895GHz	802.11ac VHT20	20	2TX
5.85-5.895GHz	802.11ac VHT20-BF	20	2TX
5.85-5.895GHz	802.11ax HEW20	20	2TX
5.85-5.895GHz	802.11ax HEW20-BF	20	2TX
5.85-5.895GHz	802.11n HT40	40	2TX
5.85-5.895GHz	802.11n HT40-BF	40	2TX
5.85-5.895GHz	802.11ac VHT40	40	2TX
5.85-5.895GHz	802.11ac VHT40-BF	40	2TX
5.85-5.895GHz	802.11ax HEW40	40	2TX
5.85-5.895GHz	802.11ax HEW40-BF	40	2TX
5.85-5.895GHz	802.11ac VHT80	80	2TX
5.85-5.895GHz	802.11ac VHT80-BF	80	2TX
5.85-5.895GHz	802.11ax HEW80	80	2TX
5.85-5.895GHz	802.11ax HEW80-BF	80	2TX
5.85-5.895GHz	802.11ac VHT160	160	2TX
5.85-5.895GHz	802.11ac VHT160-BF	160	2TX
5.85-5.895GHz	802.11ac VHT160	160	2TX
5.85-5.895GHz	802.11ax HEW160-BF	160	2TX



Note:

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

**1.1.2 Antenna Information**

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	Bluetooth					
1	1	1	-	Galtronics	02102140-07575-1	PCB	I-PEX	Note1
2	2	2	-	Galtronics	02102140-07575-2	PCB	I-PEX	
3	-	-	1	Galtronics	02036073-07315	Metal	N/A	

Note1:

Ant.	Port			Antenna Gain (dBi)						
	2.4GHz	5GHz	Bluetooth	2.4GHz	5GHz UNII-1	5GHz UNII-2A	5GHz UNII-2C	5GHz UNII-3	5GHz UNII-4	Bluetooth
1	1	1	-	2.12	2.51	2.64	3.58	3.67	3.81	-
2	2	2	-	2.67	3.26	3.20	2.95	3.01	3.17	-
3	-	-	1	-	-	-	-	-	-	5.3

Note2: The above information was declared by manufacturer.

For 2.4GHz function:**For 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.

For 5GHz function:**For IEEE 802.11a/n/ac/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth Function:**For Bluetooth mode (1TX/1RX)**

Only Port 1 can be use as transmit and receive antenna.

Note3: Directional gain information

	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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
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 :

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

$$Nss1(g1,1) = 10^{G1/20} ; Nss1(g1,2) = 10^{G2/20} ; g_{j,k} = (Nss1(g1,1) + Nss1(g1,2))^2$$

$$DG = 10 \log[(Nss1(g1,1) + Nss1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

$$2.4GHz DG = 10 \log[(10^{2.12/20} + 10^{2.67/20})^2 / N_{ANT}] = 5.41 \text{ dBi}$$

$$5 \text{ GHz Band1 DG} = 10 \log[(10^{2.51/20} + 10^{3.26/20})^2 / N_{ANT}] = 5.9 \text{ dBi}$$

$$5 \text{ GHz Band2 DG} = 10 \log[(10^{2.64/20} + 10^{3.2/20})^2 / N_{ANT}] = 5.93 \text{ dBi}$$

$$5 \text{ GHz Band3 DG} = 10 \log[(10^{3.58/20} + 10^{2.95/20})^2 / N_{ANT}] = 6.28 \text{ dBi}$$

$$5 \text{ GHz Band4 DG} = 10 \log[(10^{3.67/20} + 10^{3.01/20})^2 / N_{ANT}] = 6.36 \text{ dBi}$$

$$5.9 \text{ GHz DG} = 10 \log[(10^{3.81/20} + 10^{3.17/20})^2 / N_{ANT}] = 6.51 \text{ dBi}$$

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.935	0.29	1.977m	1k
802.11ax HEW20-BF	0.947	0.24	1.781m	1k
802.11ax HEW40-BF	0.927	0.33	1.781m	1k
802.11ax HEW80-BF	0.947	0.24	1.861m	1k
802.11ax HEW160-BF	0.947	0.24	1.961m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Device Type (UNII 4)	☒	Indoor Access Point	☐	Subordinate
	☐	Indoor Client		
Test Software Version	QSPR [Version 5.0-00199] 、DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Brand	Model Name	Description
LINKSYS	MX2000	All the models are identical, the difference model served as marketing strategy.
	MX20EC	
	MX20MS	
	MX20WH	

Note 1: From the above models, model: MX2000 was selected as representative model for the test and its data was recorded in this 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
- ♦ FCC KDB 291074 U-NII-4 - 5.9 Band DR01-44460_Draft

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	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	TH03-CB	Serway Lee	22.1~23.4 / 59~60	Jul. 21, 2021~ Oct. 05, 2021
Radiated<1GHz	03CH03-CB	Ken Yeh	25.2-27.3 / 55-58	Sep. 09, 2021
Radiated>1GHz	03CH01-CB	Eason Chen	23.9-26.1 / 55-58	Jul. 13, 2021 ~ Aug. 11, 2021
	03CH02-CB	Eason Chen	25.8-28.2 / 56-59	Jul. 13, 2021 ~ Aug. 11, 2021
	03CH04-CB	Eason Chen	24.6-25.7 / 55-58	Jul. 13, 2021 ~ Aug. 11, 2021
Radiated Co-location	03CH05-CB	Eason Chen	24.4-25.5 / 56-59	Sep. 03, 2021
AC Conduction	CO01-CB	Ryo Fan	23~24 / 56~57	Sep. 06, 2021



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5845MHz Straddle 5.725-5.85GHz	23
5845MHz Straddle 5.85-5.895GHz	23
5865MHz	20
5885MHz	20
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5845MHz Straddle 5.725-5.85GHz	27
5845MHz Straddle 5.85-5.895GHz	27
5865MHz	24
5885MHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5835MHz Straddle 5.725-5.85GHz	28
5835MHz Straddle 5.85-5.895GHz	28
5875MHz	26
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5855MHz Straddle 5.725-5.85GHz	27
5855MHz Straddle 5.85-5.895GHz	27
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-
5815MHz Straddle 5.725-5.85GHz	24
5815MHz Straddle 5.85-5.895GHz	24

Note1: There are two modes of EUT for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.

Note2: Evaluated HEW20/HEW40/HEW80/HEW160 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter 1 + US plug
2	EUT + Adapter 2
3	EUT + Adapter 3
4	EUT + Adapter 4 + US plug
For operating mode 1 is the worst case and it was record in this test report.	

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



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	The EUT was performed at X axis, Y axis and Z axis position for Unwanted Emissions above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	CTX
1	EUT in Z axis CTX WLAN 2.4GHz + Adapter 1 + US plug
2	EUT in Z axis CTX WLAN 2.4GHz + Adapter 2
3	EUT in Z axis CTX WLAN 2.4GHz + Adapter 3
4	EUT in Z axis CTX WLAN 2.4GHz + Adapter 4 + US plug
Mode 2 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 ~ 6 will follow this same test mode.	
5	EUT in Z axis CTX Bluetooth + Adapter 2
6	EUT in Z axis CTX WLAN 5GHz + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	The EUT was performed at X axis, Y axis and Z axis, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	EUT in Z axis CTX
The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	The EUT was performed at X axis, Y axis and Z axis position for Unwanted Emissions above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	Normal Link
1	EUT in Z axis WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA171418 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS [ver 6.1.7601].
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Wireless AP and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1 (Removable plug)	Ktec	KSA-18W-120150D5	INPUT: 100-240V~50/60Hz, 0.5A OUTPUT: 12.0V, 1.5A, 18.0W
Adapter 2 (Fixed plug)	Ktec	KSA-18W-120150VU	INPUT: 100-240V~50/60Hz, 0.5A OUTPUT: 12V, 1.5A
Adapter 3 (Fixed plug)	APD	WB-18Q12FU	INPUT: 100-240V~, 50-60Hz, 0.6A Max. OUTPUT: 12V, 1.5A
Adapter 4 (Removable plug)	APD	WB-18Q12R	INPUT: 100-240V~, 50-60Hz, 0.6A, Max. OUTPUT: 12.0V, 1.5A, 18.0W
Others			
US plug*2 (for adapter 1 and adapter 4 use) RJ-45 cable*1: Non-shielded, 0.9m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	WAN NB	DELL	E6430	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	iPad	Apple	A1430	N/A

For Radiated (below 1GHz):

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

For Radiated (above 1GHz) and RF Conducted:

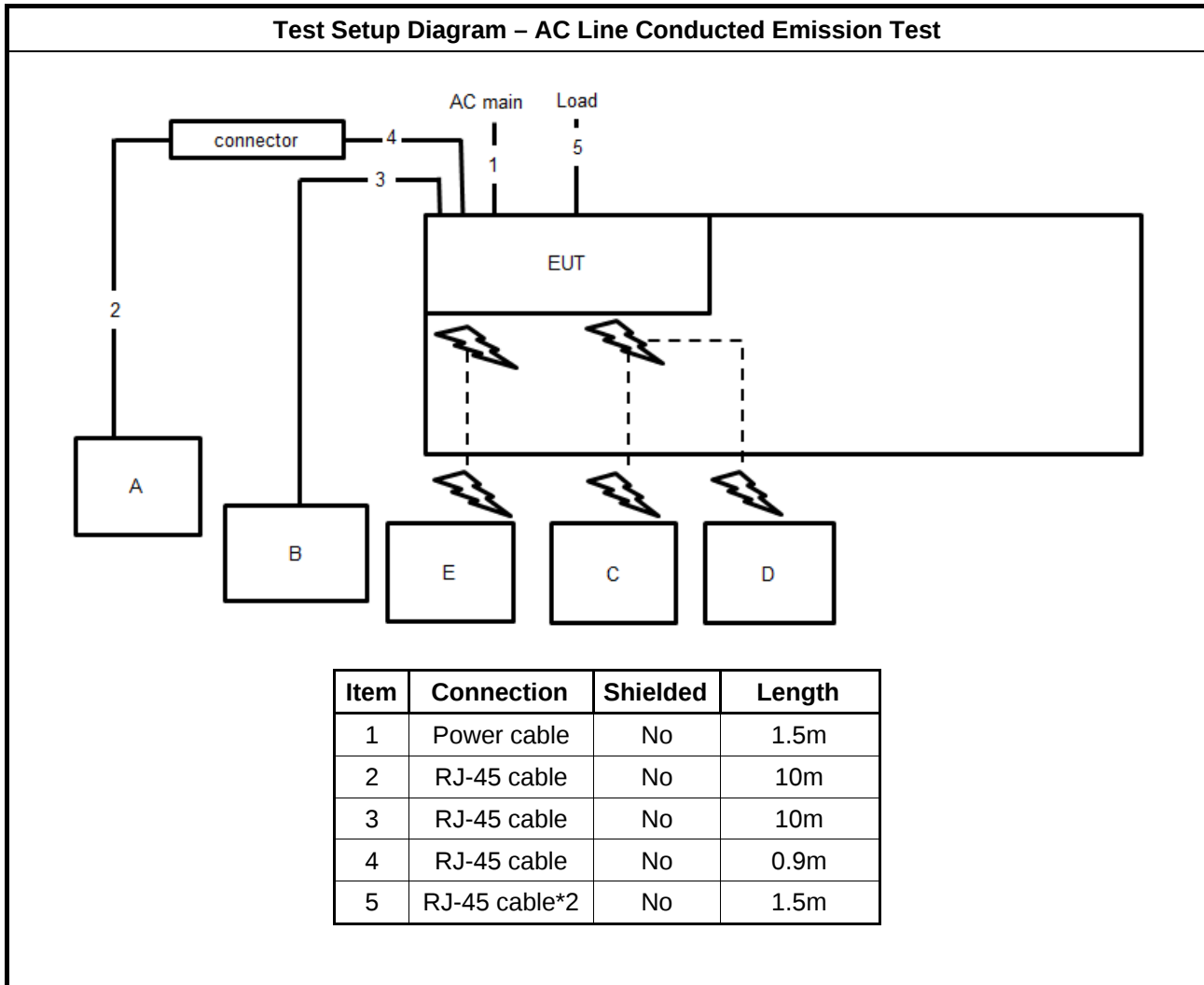
For Non-beamforming mode:

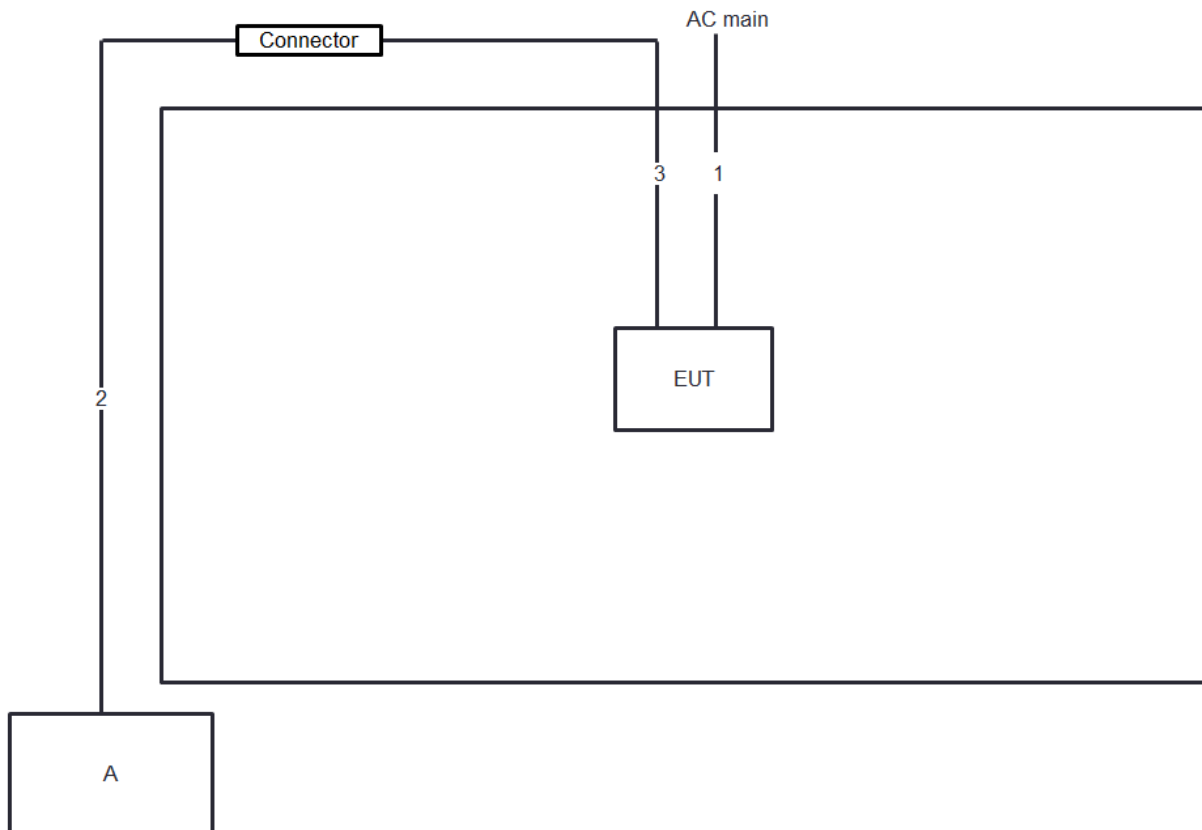
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For Beamforming mode:

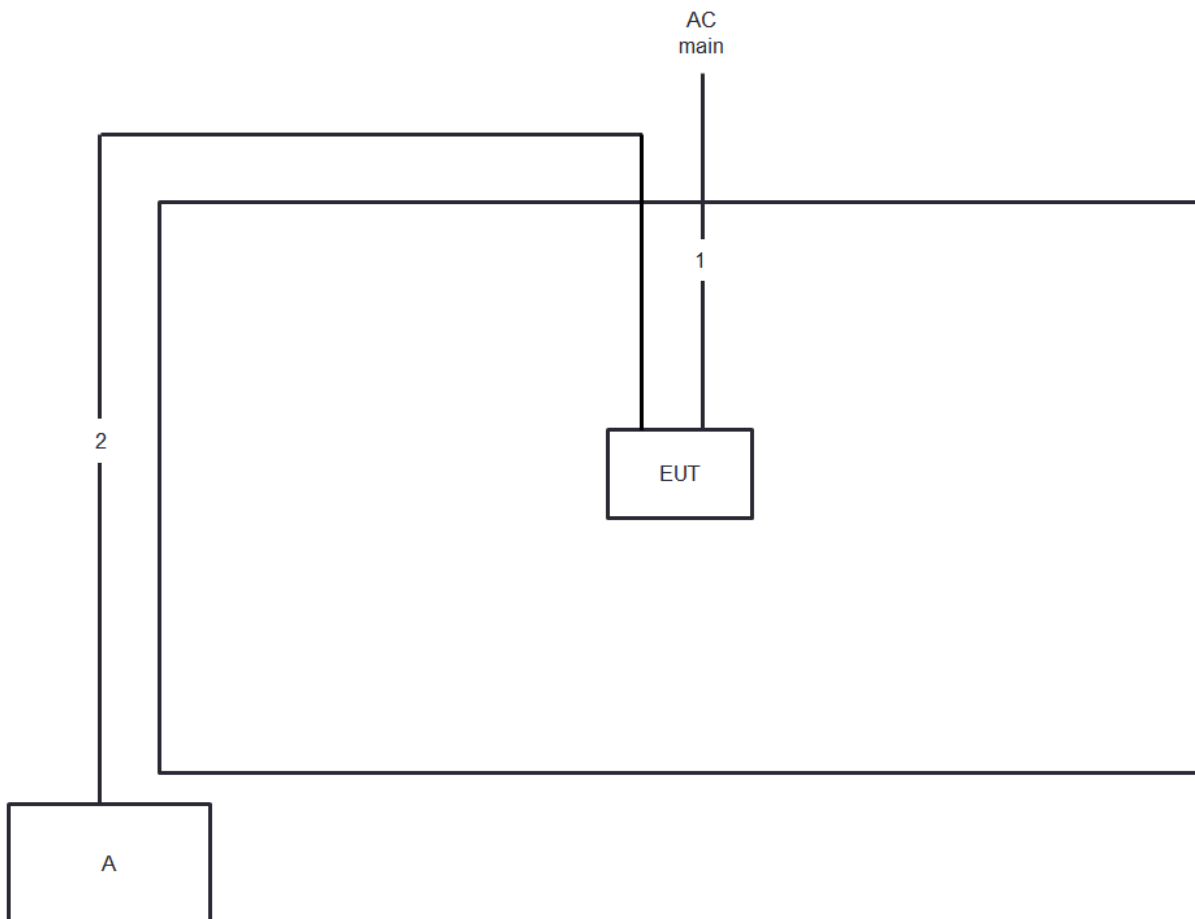
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	RX Device	LINKSYS	MX2000	2AYRA-08330

2.6 Test Setup Diagram

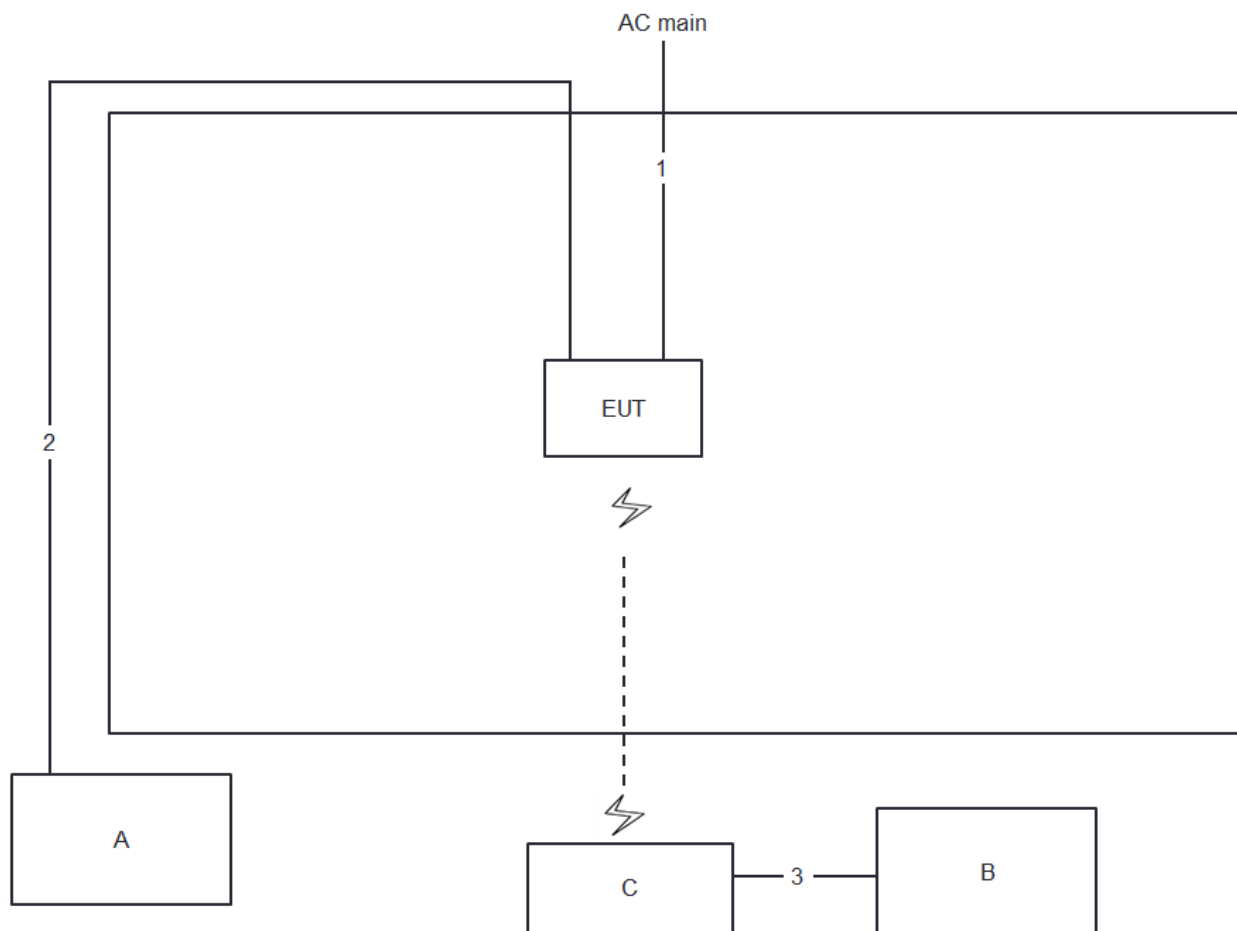


Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	0.9m

Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode


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

Test Setup Diagram - Radiated Test > 1GHz / beamforming mode


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

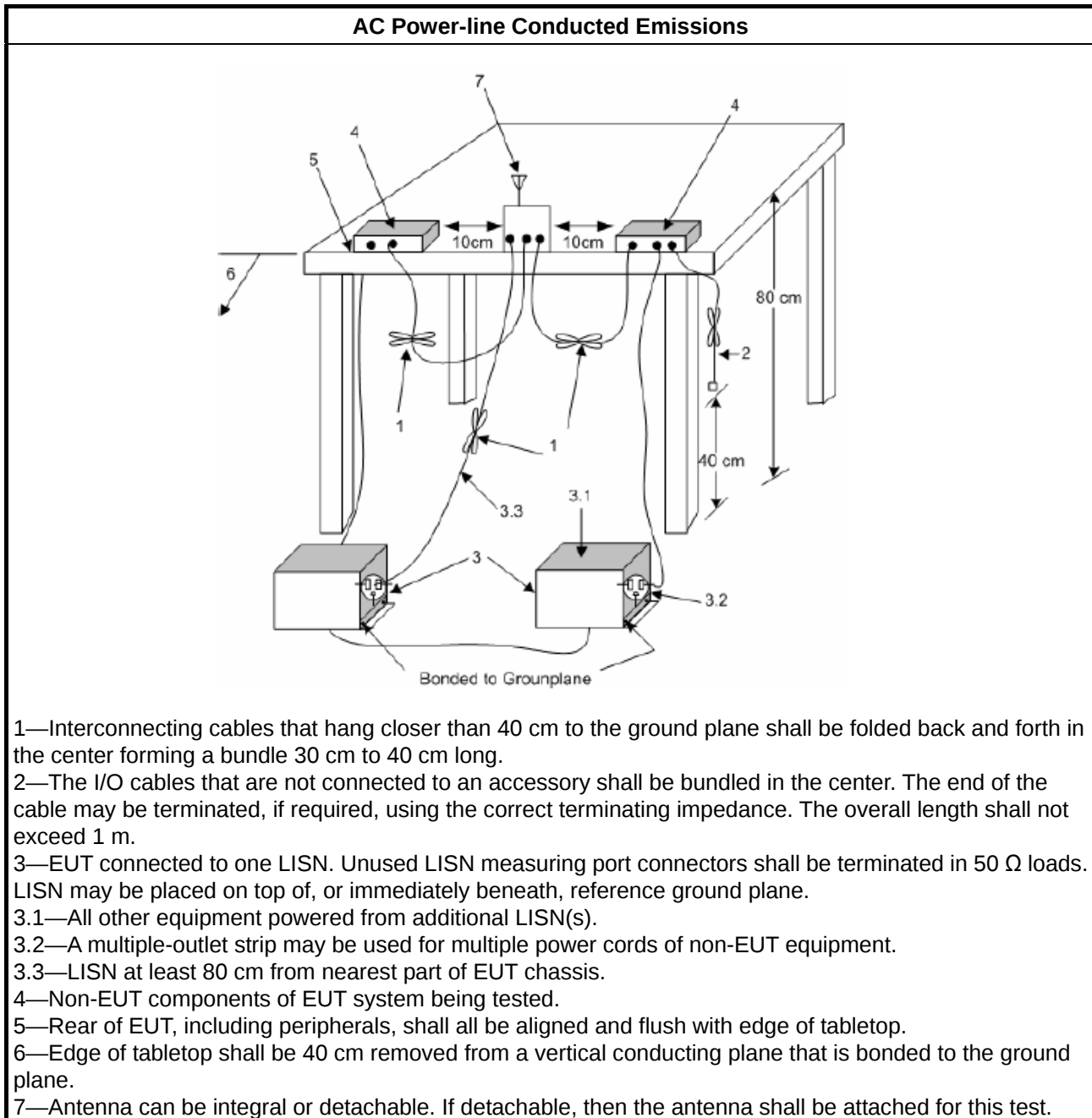
3.1.2 Measuring Instruments

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, 6 dB emission bandwidth $\geq$ 500kHz.
☒	For the 5.85-5.895 GHz band, 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.

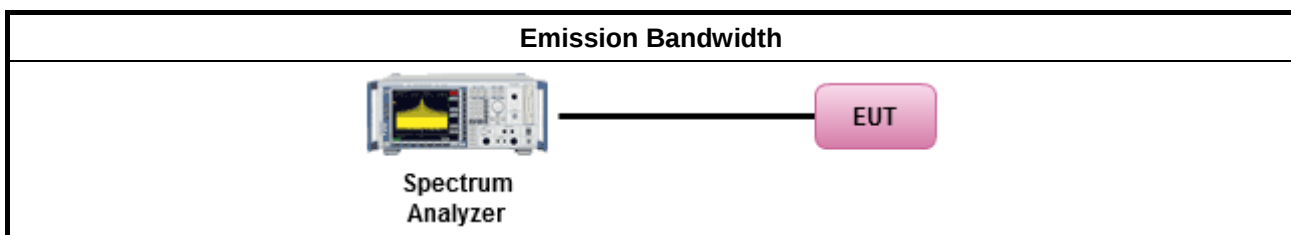
3.2.2 Measuring Instruments

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, 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

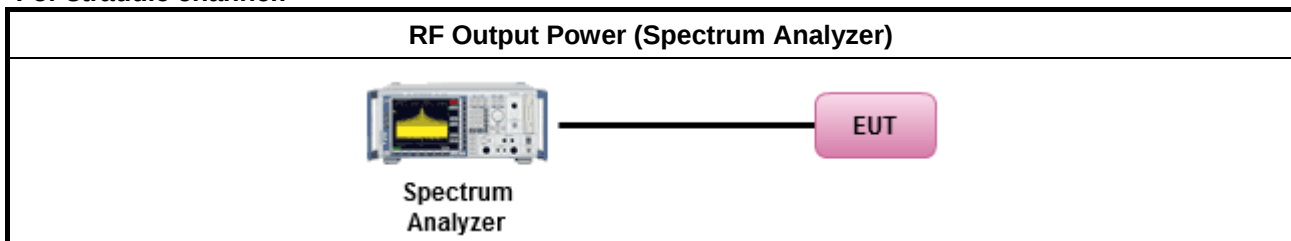
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

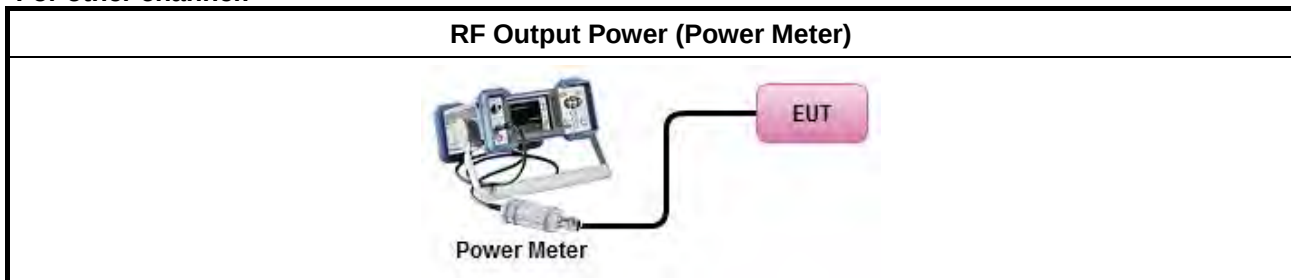
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.3.4 Test Setup

For straddle channel:



For other channel:



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.

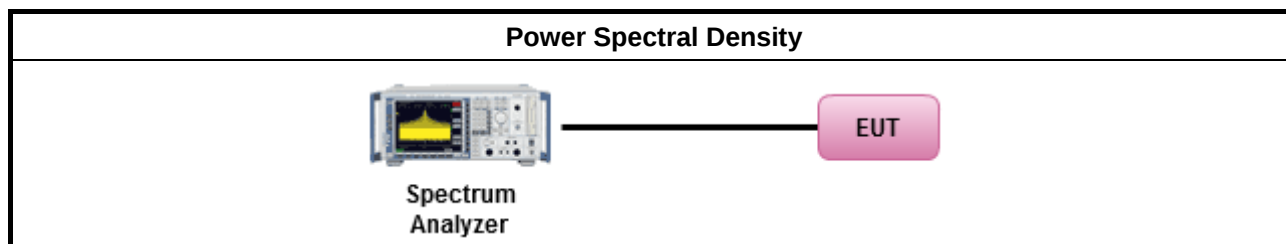
3.4.2 Measuring Instruments

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, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of 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).	

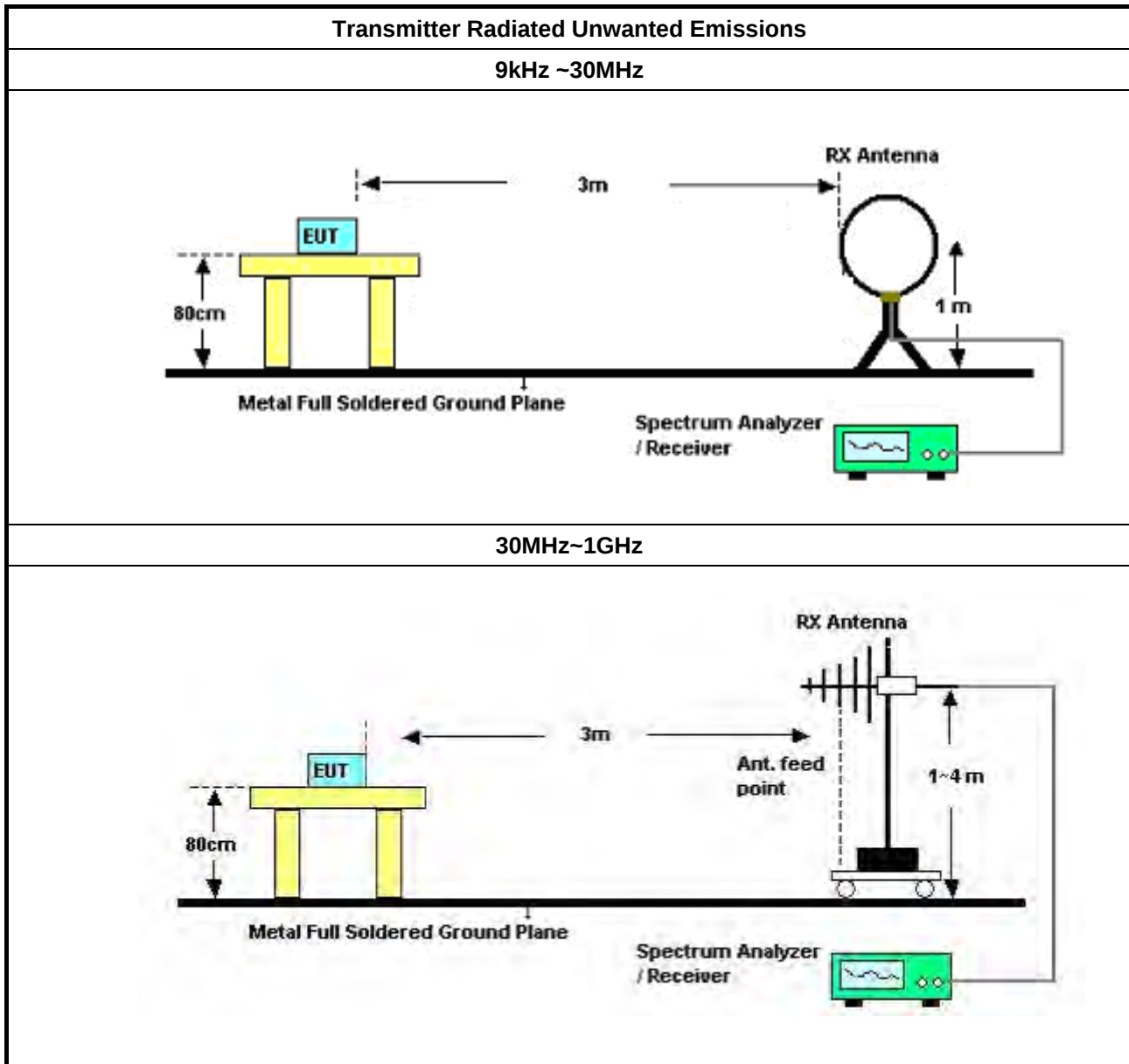
3.5.2 Measuring Instruments

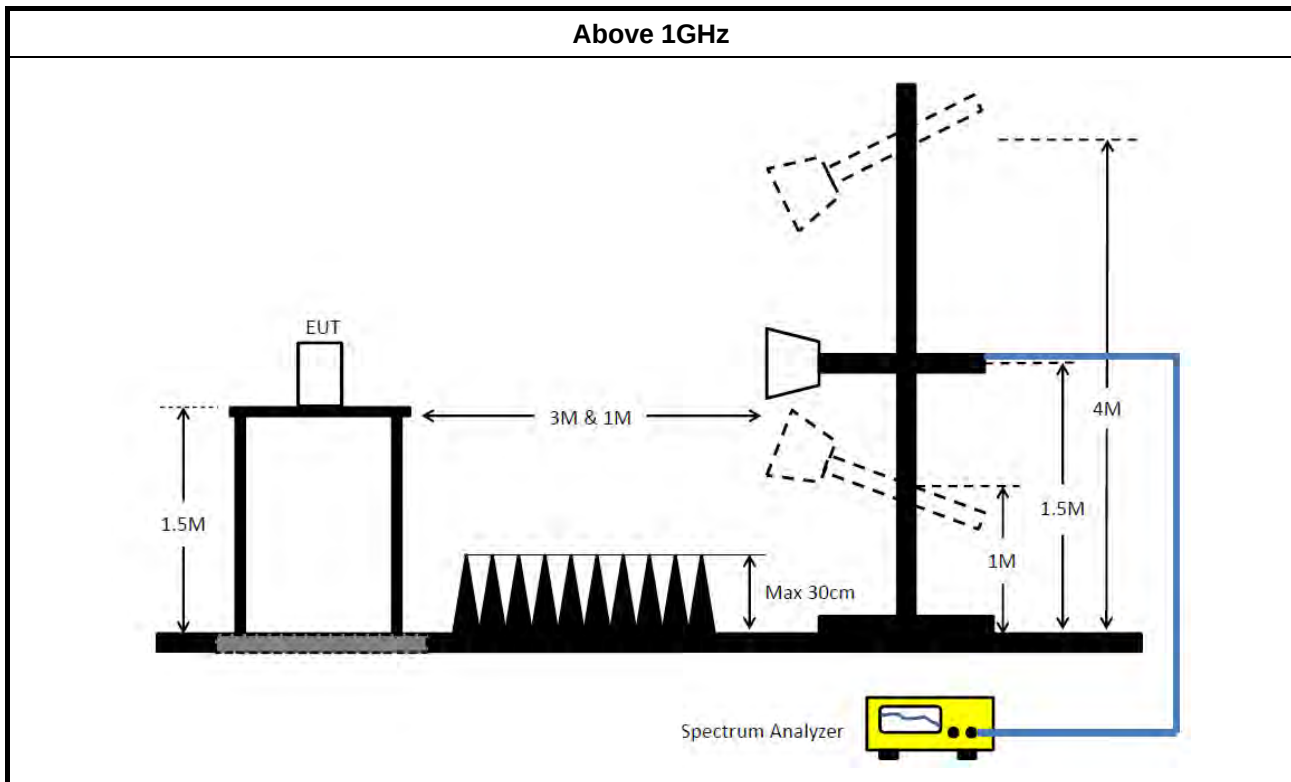
Refer a test equipment and calibration data table in this test report.

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, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 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, 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	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	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	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 27, 2021	Jan. 26, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 06, 2021	May 05, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 26, 2021	Jan. 25, 2022	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Aug. 20, 2021	Aug. 19, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 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	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Sep. 05, 2020	Sep. 04, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 27, 2021	Jul. 26, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 27, 2021	Jul. 26, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.



Conducted Emissions at Powerline

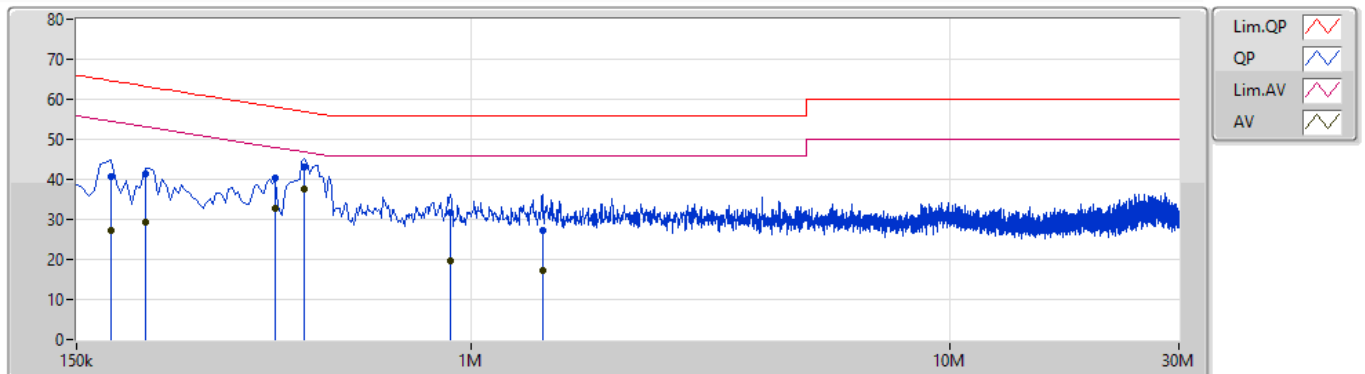
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	447k	37.54	46.94	-9.40	Line

Mode 1

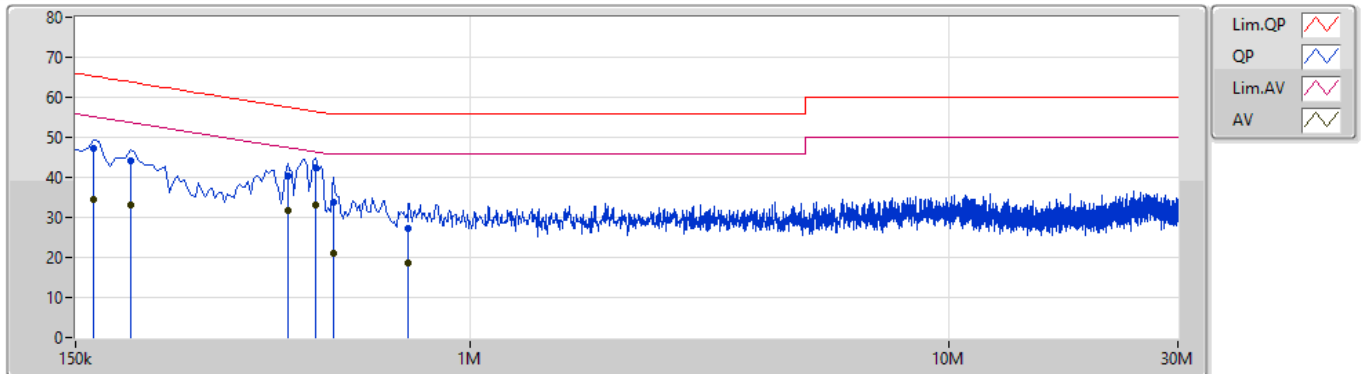
06/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	177k	40.80	64.62	-23.82	9.89	Line	-	30.91	0.04	0.04	9.81			
AV	177k	27.17	54.62	-27.45	9.89	Line	-	17.28	0.04	0.04	9.81			
QP	208.5k	41.50	63.27	-21.77	9.89	Line	-	31.61	0.04	0.04	9.81			
AV	208.5k	29.24	53.27	-24.03	9.89	Line	-	19.35	0.04	0.04	9.81			
QP	388.5k	40.39	58.10	-17.71	9.90	Line	-	30.49	0.04	0.04	9.82			
AV	388.5k	32.78	48.10	-15.32	9.90	Line	-	22.88	0.04	0.04	9.82			
QP	447k	43.23	56.94	-13.71	9.90	Line	-	33.33	0.04	0.04	9.82			
AV	447k	37.54	46.94	-9.40	9.90	Line	"Worst"	27.64	0.04	0.04	9.82			
QP	906k	31.83	56.00	-24.17	9.93	Line	-	21.90	0.06	0.04	9.83			
AV	906k	19.74	46.00	-26.26	9.93	Line	-	9.81	0.06	0.04	9.83			
QP	1.41M	27.19	56.00	-28.81	9.95	Line	-	17.24	0.07	0.05	9.83			
AV	1.41M	17.32	46.00	-28.68	9.95	Line	-	7.37	0.07	0.05	9.83			

Mode 1

06/09/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.5k	47.23	65.27	-18.04	9.88	Neutral	-	37.35	0.03	0.04	9.81			
AV	163.5k	34.52	55.27	-20.75	9.88	Neutral	-	24.64	0.03	0.04	9.81			
QP	195k	44.13	63.82	-19.69	9.88	Neutral	-	34.25	0.03	0.04	9.81			
AV	195k	33.27	53.82	-20.55	9.88	Neutral	-	23.39	0.03	0.04	9.81			
QP	415.5k	40.31	57.53	-17.22	9.89	Neutral	-	30.42	0.03	0.04	9.82			
AV	415.5k	31.88	47.53	-15.65	9.89	Neutral	-	21.99	0.03	0.04	9.82			
QP	474k	42.39	56.44	-14.05	9.89	Neutral	-	32.50	0.03	0.04	9.82			
AV	474k	33.15	46.44	-13.29	9.89	Neutral	"Worst"	23.26	0.03	0.04	9.82			
QP	519k	33.80	56.00	-22.20	9.90	Neutral	-	23.90	0.04	0.04	9.82			
AV	519k	20.93	46.00	-25.07	9.90	Neutral	-	11.03	0.04	0.04	9.82			
QP	744k	27.20	56.00	-28.80	9.91	Neutral	-	17.29	0.04	0.04	9.83			
AV	744k	18.61	46.00	-27.39	9.91	Neutral	-	8.70	0.04	0.04	9.83			

Summary

Mode	Max-N dB (Hz)	ITU-Code	Min-N dB (Hz)
5.725-5.85GHz	-	-	-
802.11a_Nss1,(6Mbps)_2TX	13.26M	13M3D1D	13.23M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	13.11M	13M1D1D	12.42M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	33.78M	33M8D1D	32.76M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	32.52M	32M5D1D	23.64M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	113.94M	114MD1D	113.22M
5.85-5.895GHz	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.47M	16M5D1D	3.18M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.54M	18M5D1D	4.29M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	36.36M	36M4D1D	4.02M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	38.64M	38M6D1D	22.2M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	43.92M	43M9D1D	43.56M

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 2-N dB (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	500k	13.23M	13.26M
5845MHz Straddle 5.85-5.895GHz	Pass	500k	3.21M	3.18M
5865MHz	Pass	500k	16.41M	16.47M
5885MHz	Pass	500k	16.47M	16.41M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	500k	12.42M	13.11M
5845MHz Straddle 5.85-5.895GHz	Pass	500k	4.38M	4.29M
5865MHz	Pass	500k	18.39M	18.36M
5885MHz	Pass	500k	15.96M	18.54M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-
5835MHz Straddle 5.725-5.85GHz	Pass	500k	33.78M	32.76M
5835MHz Straddle 5.85-5.895GHz	Pass	500k	4.02M	4.08M
5875MHz	Pass	500k	36.36M	29.94M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-
5855MHz Straddle 5.725-5.85GHz	Pass	500k	23.64M	32.52M
5855MHz Straddle 5.85-5.895GHz	Pass	500k	22.2M	38.64M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-
5815MHz Straddle 5.725-5.85GHz	Pass	500k	113.22M	113.94M
5815MHz Straddle 5.85-5.895GHz	Pass	500k	43.92M	43.56M

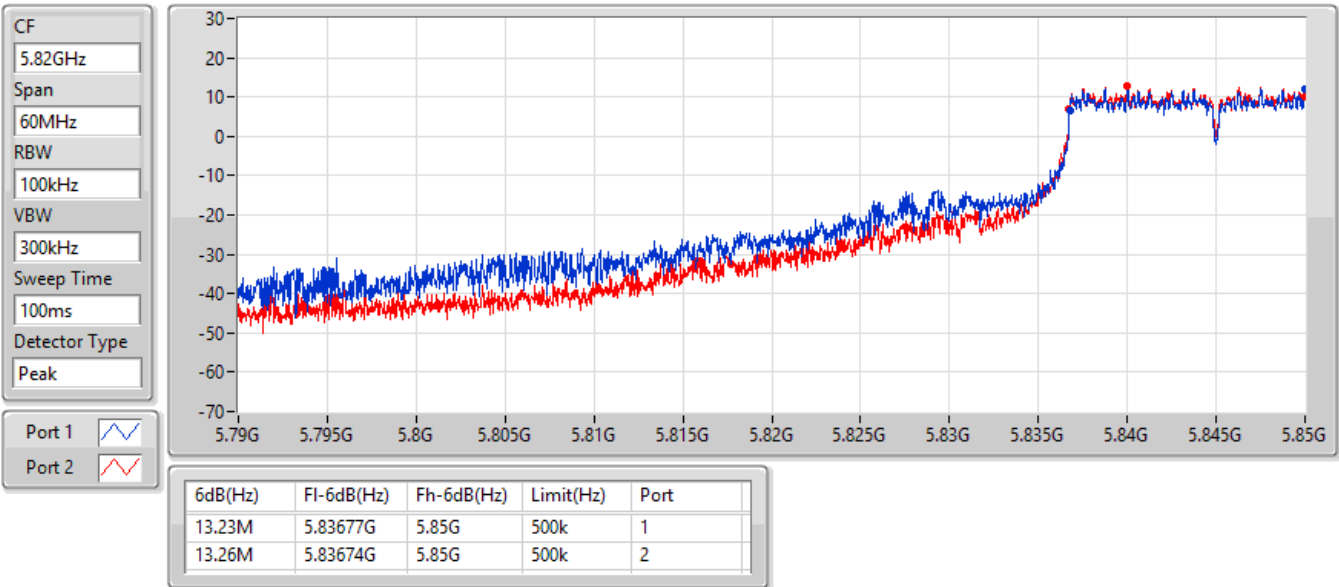
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX

EBW

5845MHz Straddle 5.725-5.85GHz

07/09/2021

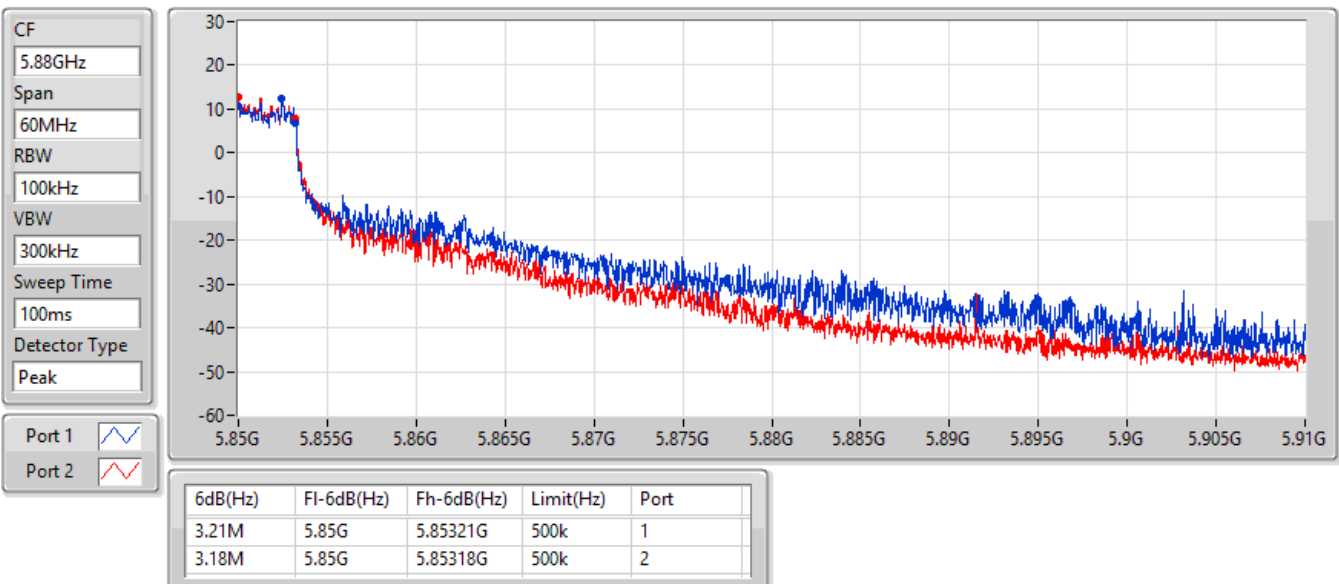


802.11a_Nss1,(6Mbps)_2TX

EBW

5845MHz Straddle 5.85-5.895GHz

07/09/2021

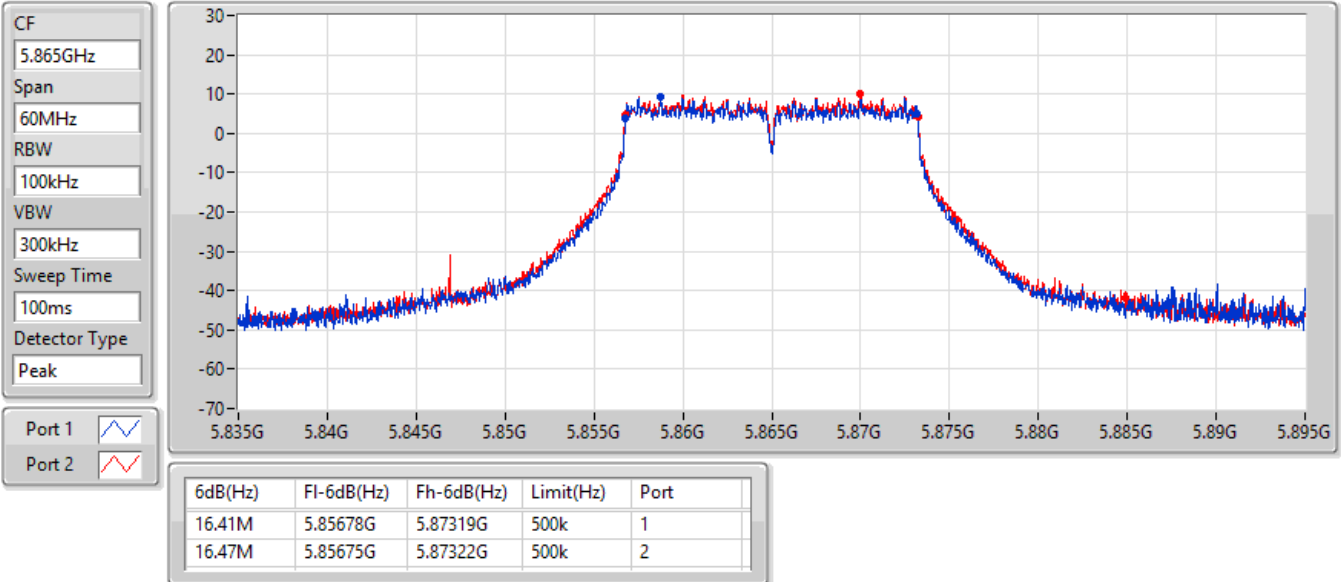


802.11a_Nss1,(6Mbps)_2TX

EBW

5865MHz

07/09/2021

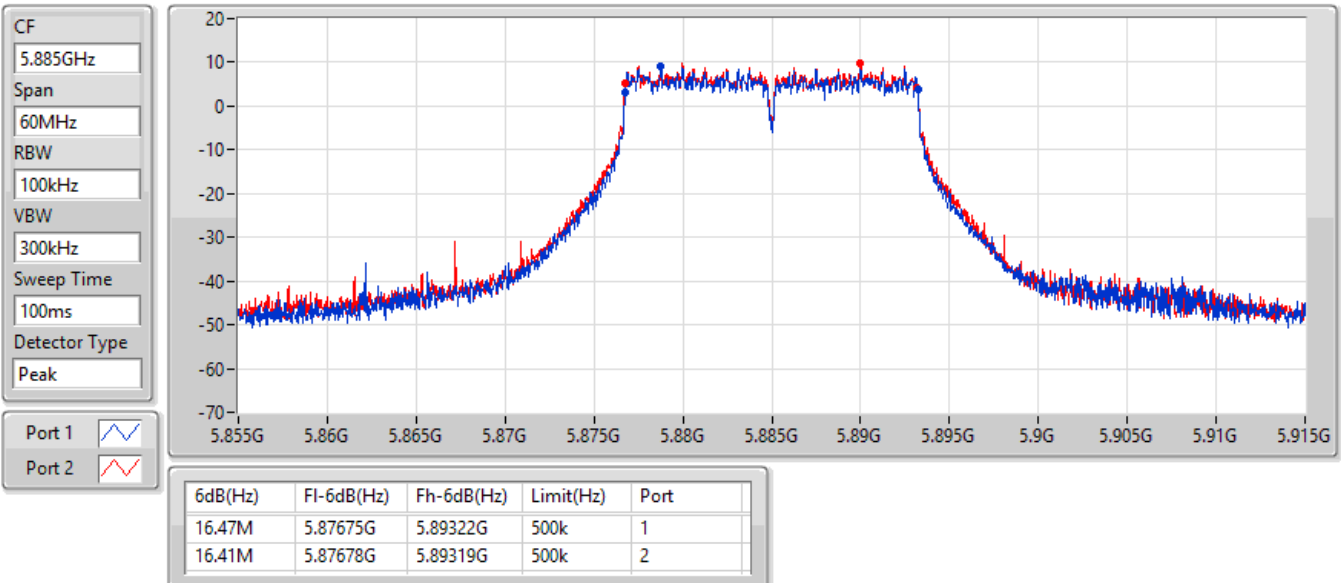


802.11a_Nss1,(6Mbps)_2TX

EBW

5885MHz

07/09/2021

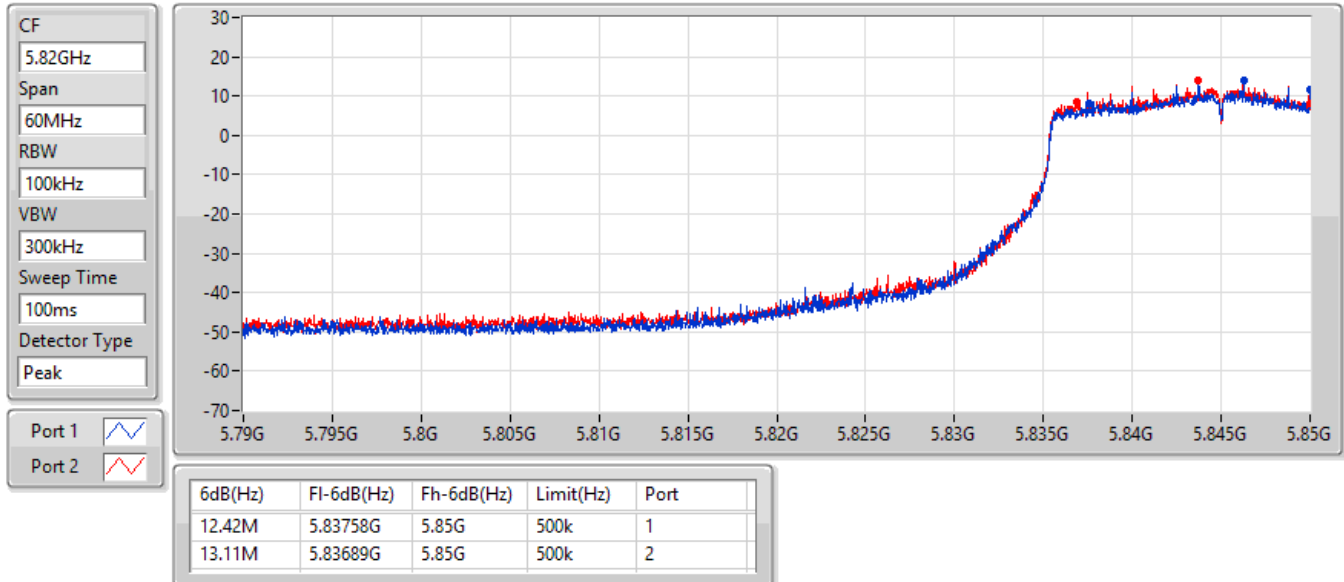


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

5845MHz Straddle 5.725-5.85GHz

07/09/2021

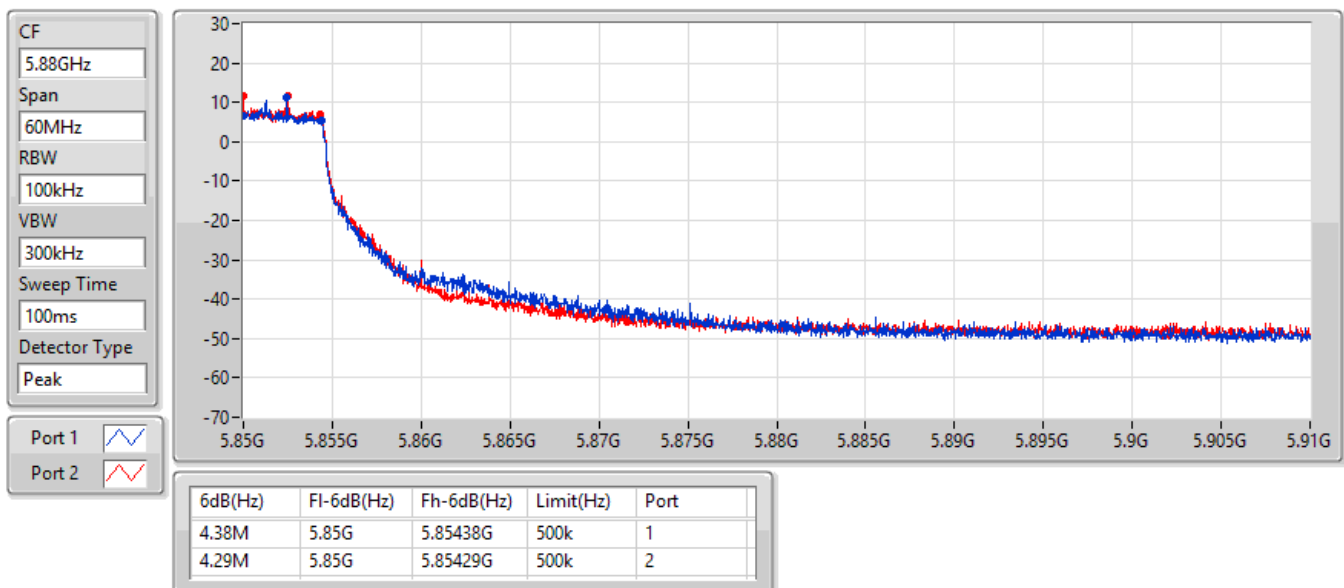


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

5845MHz Straddle 5.85-5.895GHz

07/09/2021

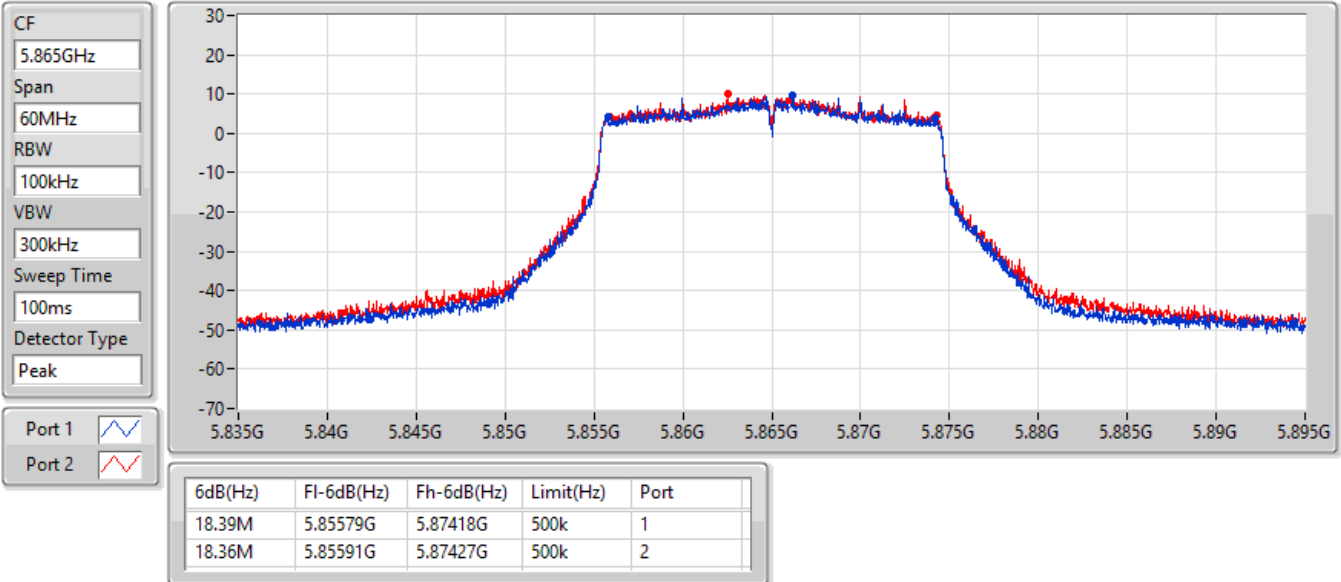


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

5865MHz

07/09/2021

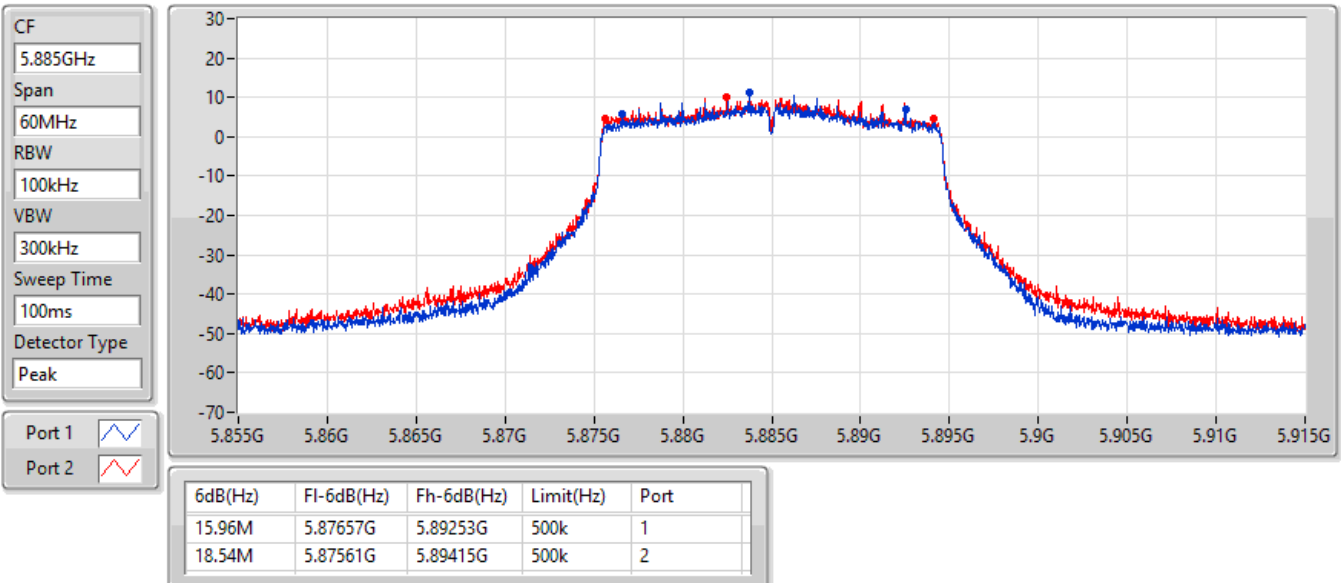


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

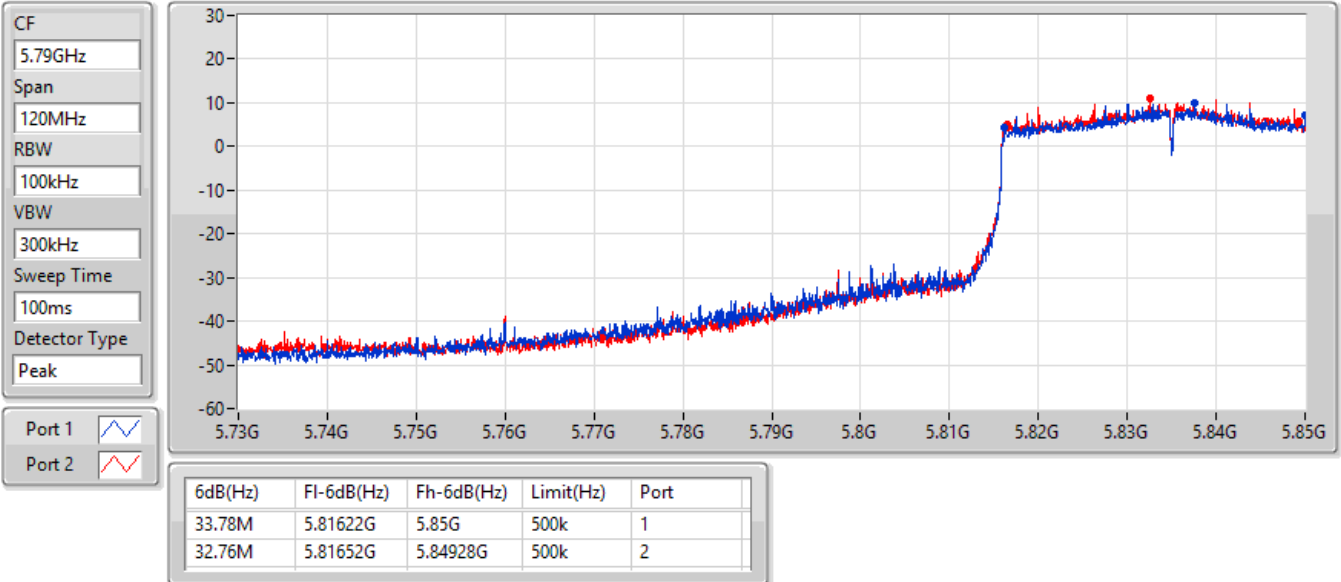
5885MHz

07/09/2021

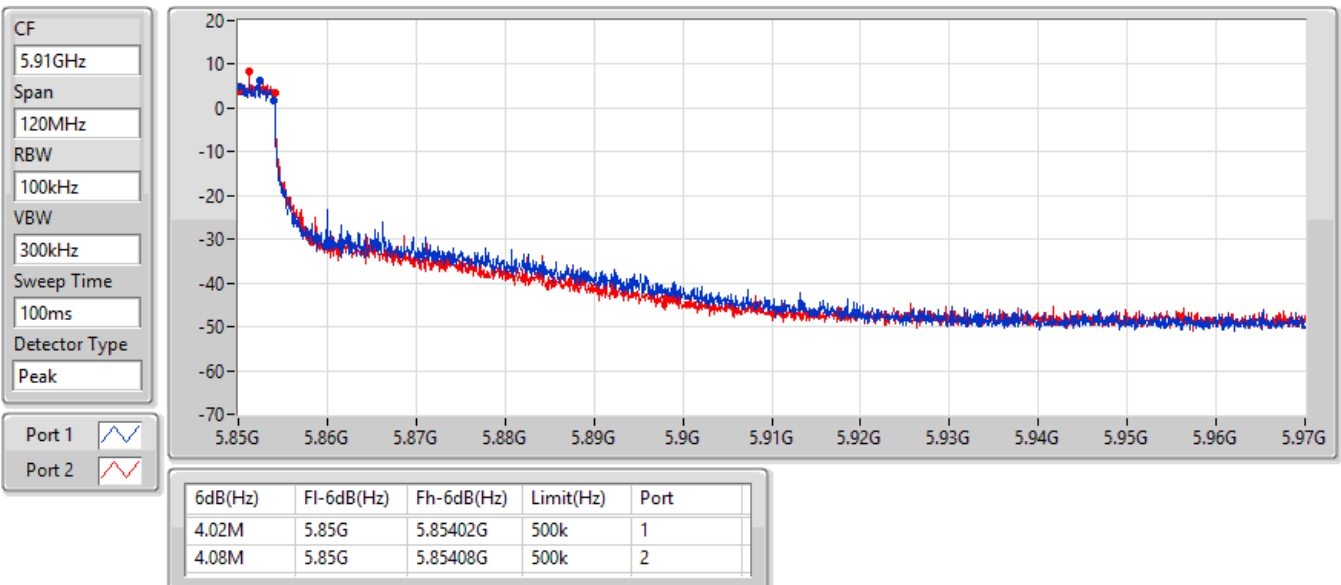


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5835MHz Straddle 5.725-5.85GHz

07/09/2021


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5835MHz Straddle 5.85-5.895GHz

07/09/2021

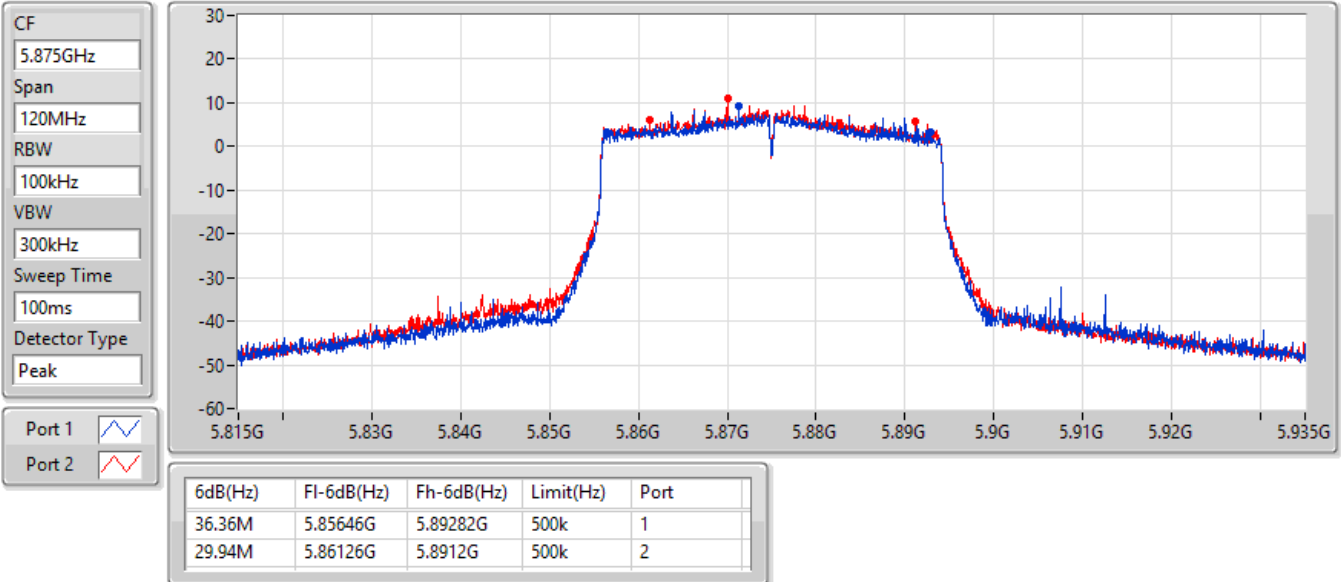


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

5875MHz

07/09/2021

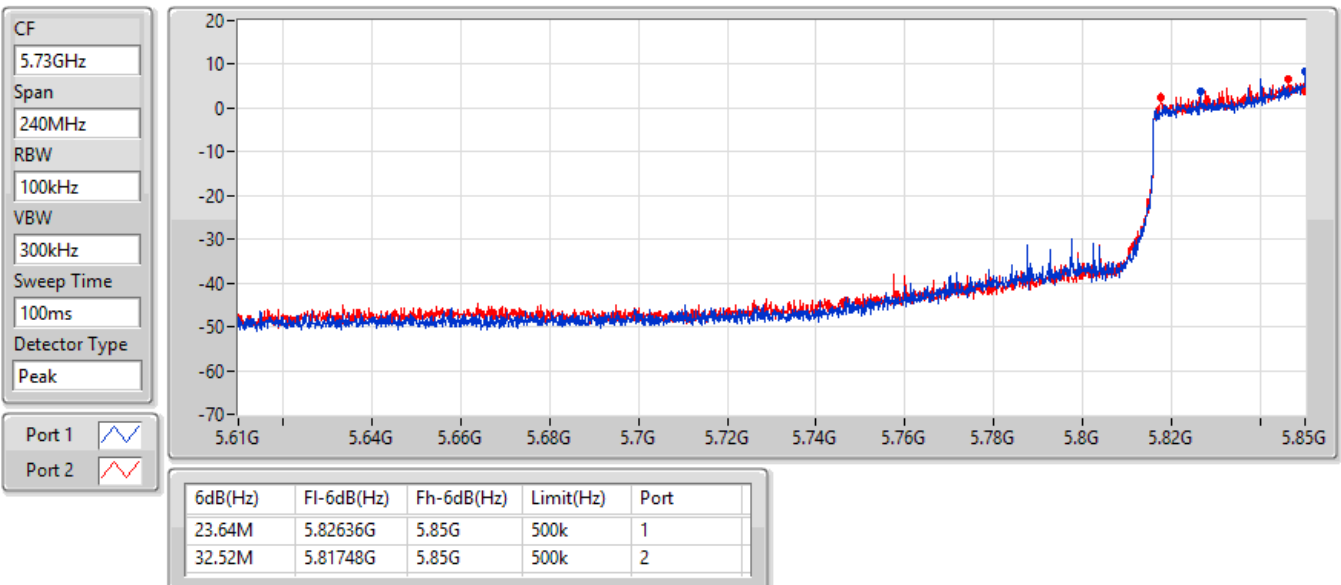


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

5855MHz Straddle 5.725-5.85GHz

07/09/2021

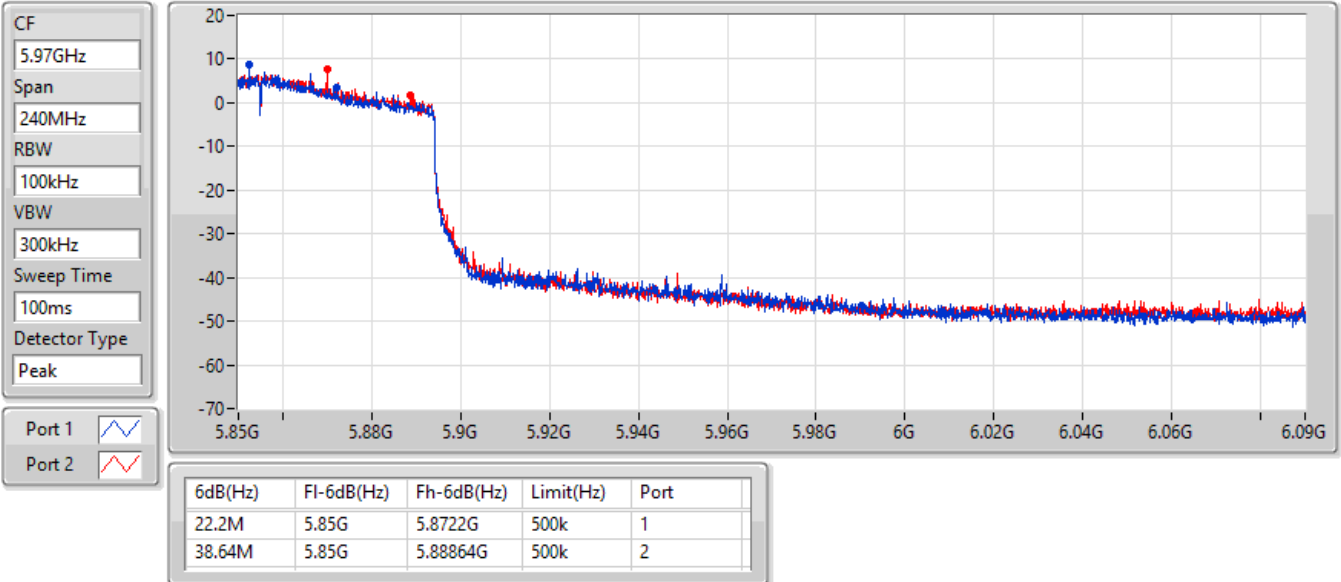


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

5855MHz Straddle 5.85-5.895GHz

07/09/2021

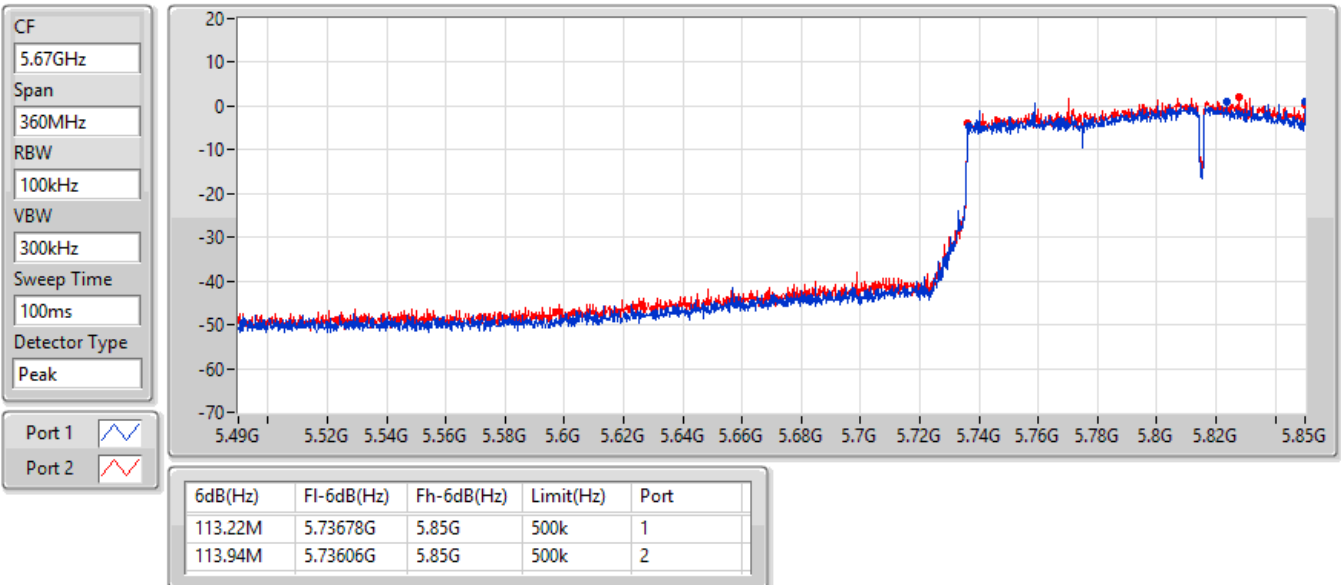


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW

5815MHz Straddle 5.725-5.85GHz

07/09/2021

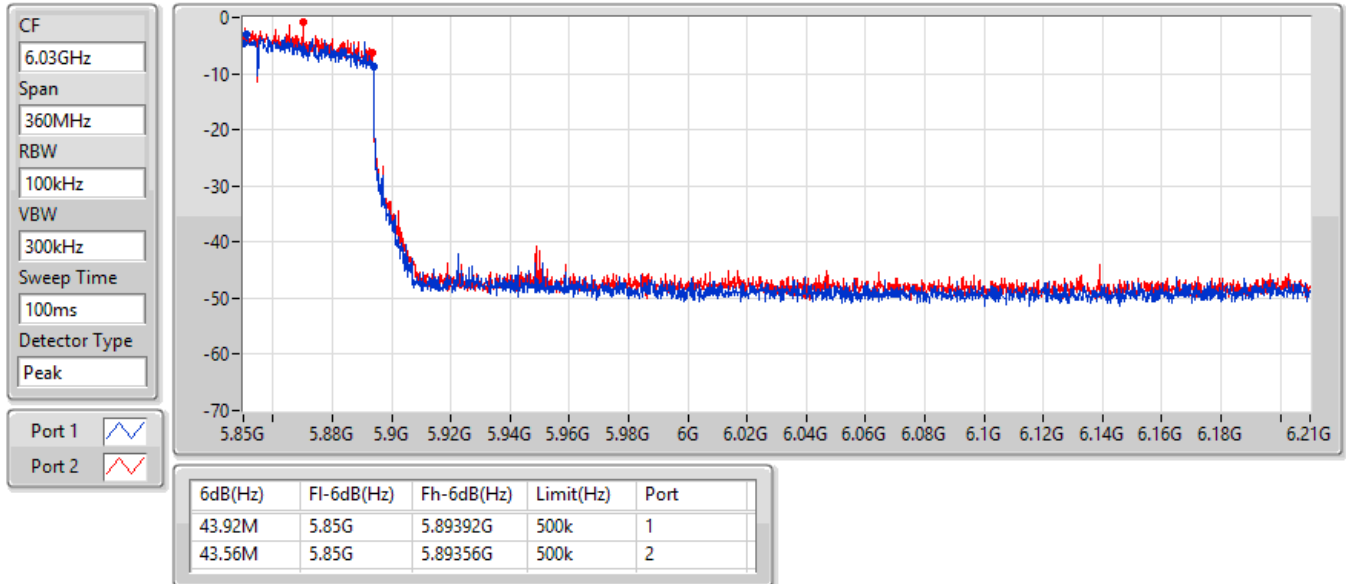


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW

5815MHz Straddle 5.85-5.895GHz

07/09/2021



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	14.43M	13.103M	13M1D1D	14.37M	13.073M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	15.36M	14.393M	14M4D1D	15.33M	14.393M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	35.04M	33.763M	33M8D1D	34.98M	33.643M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	36M	34.303M	34M3D1D	35.88M	34.183M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	117.72M	112.804M	113MD1D	117.72M	112.804M
5.85-5.895GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.62M	16.312M	16M3D1D	4.92M	3.838M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.82M	18.861M	18M9D1D	5.64M	4.768M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	40.26M	37.721M	37M7D1D	5.82M	11.334M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	45.6M	43.658M	43M7D1D	45.48M	43.538M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	47.7M	45.337M	45M3D1D	47.52M	44.798M

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

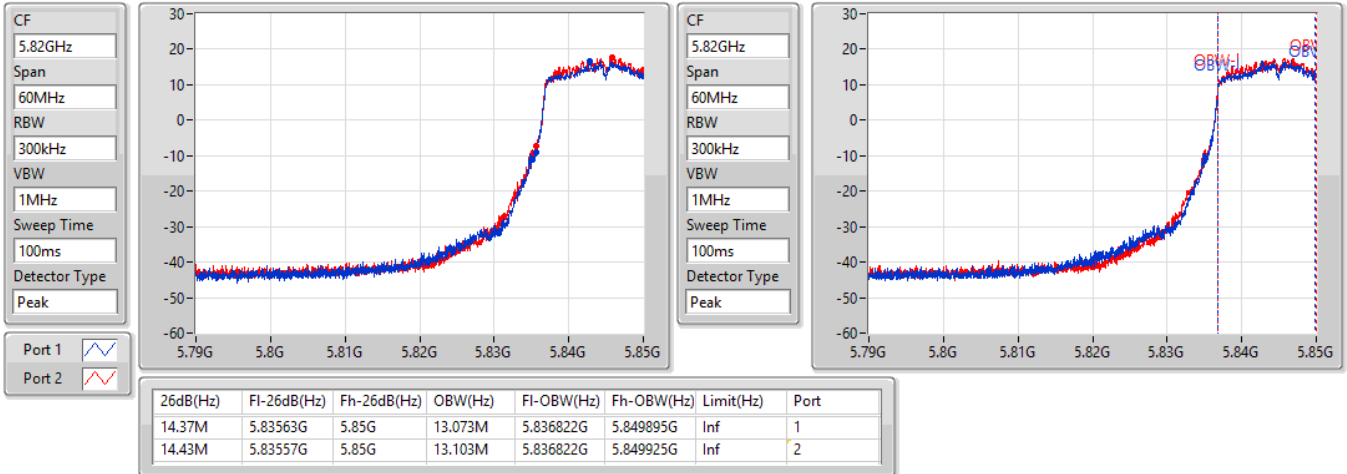
Result

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	-	-	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	Inf	14.37M	13.073M	14.43M	13.103M
5845MHz Straddle 5.85-5.895GHz	Pass	Inf	5.13M	4.468M	4.92M	3.838M
5865MHz	Pass	Inf	19.62M	16.312M	18.87M	16.282M
5885MHz	Pass	Inf	19.56M	16.312M	19.62M	16.282M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	Inf	15.33M	14.393M	15.36M	14.393M
5845MHz Straddle 5.85-5.895GHz	Pass	Inf	5.73M	4.768M	5.64M	4.798M
5865MHz	Pass	Inf	20.82M	18.861M	20.76M	18.861M
5885MHz	Pass	Inf	20.79M	18.861M	20.82M	18.861M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5835MHz Straddle 5.725-5.85GHz	Pass	Inf	35.04M	33.763M	34.98M	33.643M
5835MHz Straddle 5.85-5.895GHz	Pass	Inf	6.18M	18.051M	5.82M	11.334M
5875MHz	Pass	Inf	40.26M	37.661M	40.14M	37.721M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5855MHz Straddle 5.725-5.85GHz	Pass	Inf	36M	34.303M	35.88M	34.183M
5855MHz Straddle 5.85-5.895GHz	Pass	Inf	45.48M	43.538M	45.6M	43.658M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5815MHz Straddle 5.725-5.85GHz	Pass	Inf	117.72M	112.804M	117.72M	112.804M
5815MHz Straddle 5.85-5.895GHz	Pass	Inf	47.7M	45.337M	47.52M	44.798M

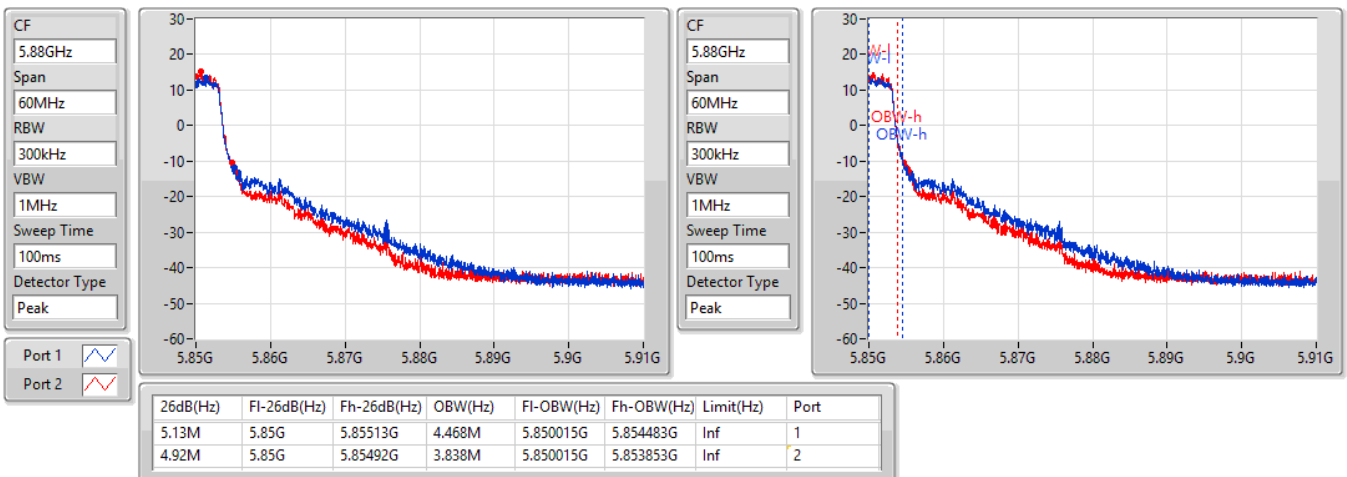
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX
EBW
5845MHz Straddle 5.725-5.85GHz

07/09/2021

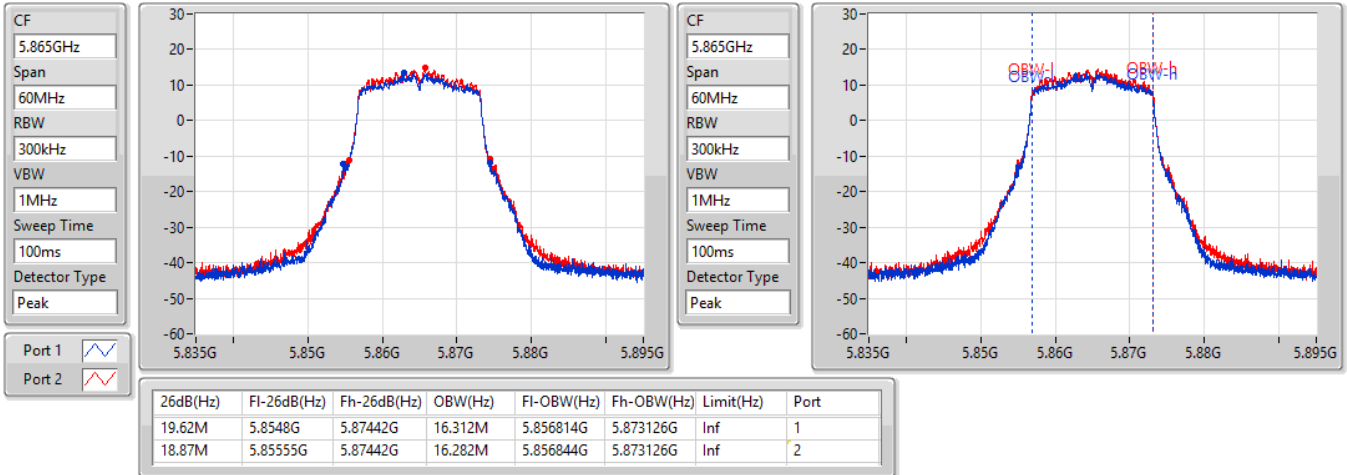

802.11a_Nss1,(6Mbps)_2TX
EBW
5845MHz Straddle 5.85-5.915GHz

07/09/2021

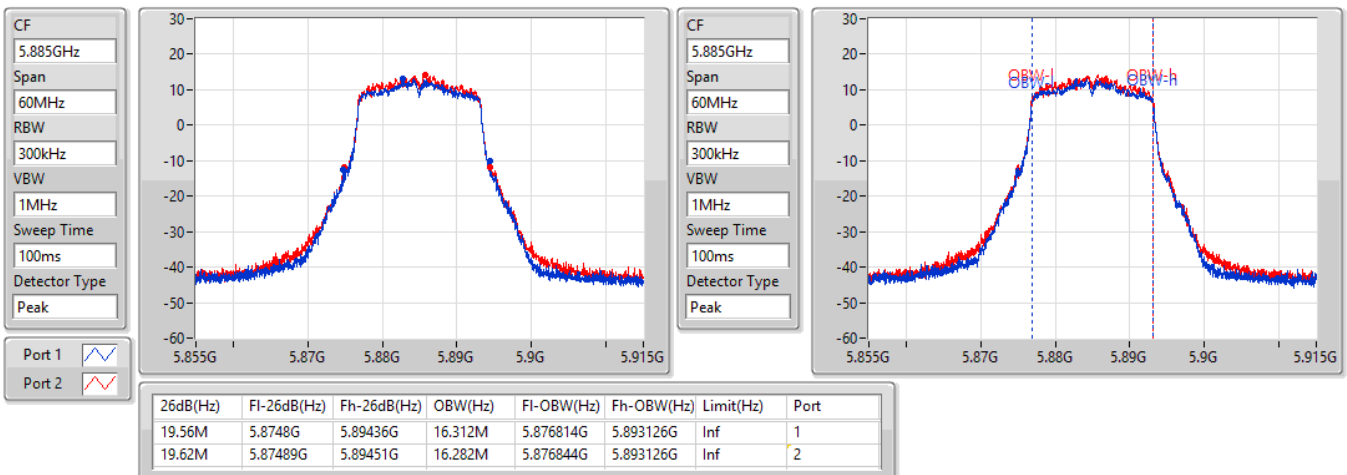


802.11a_Nss1,(6Mbps)_2TX
EBW
5865MHz

07/09/2021

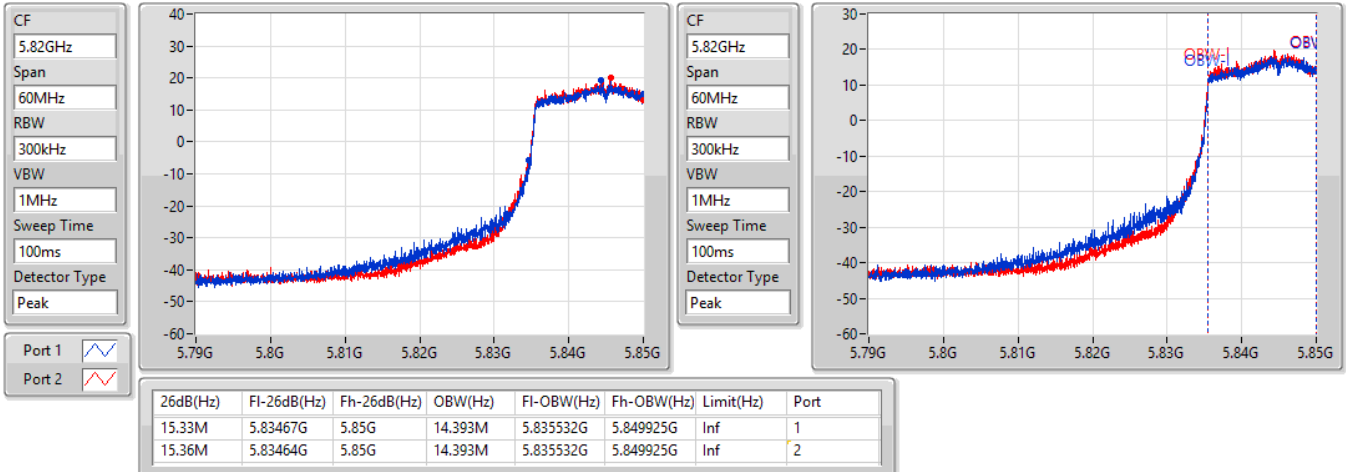

802.11a_Nss1,(6Mbps)_2TX
EBW
5885MHz

07/09/2021

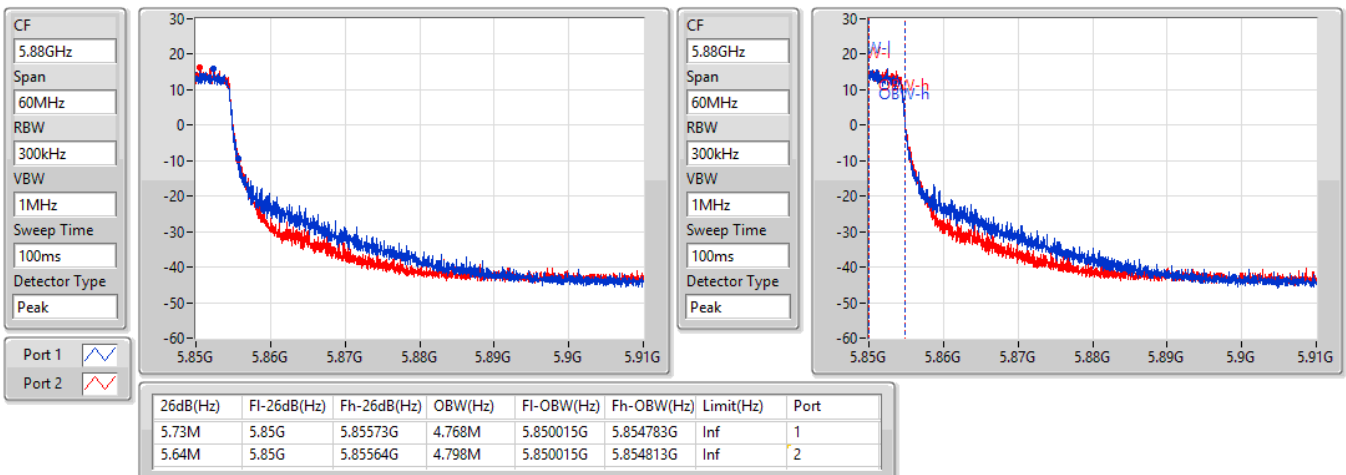


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5845MHz Straddle 5.725-5.85GHz

07/09/2021

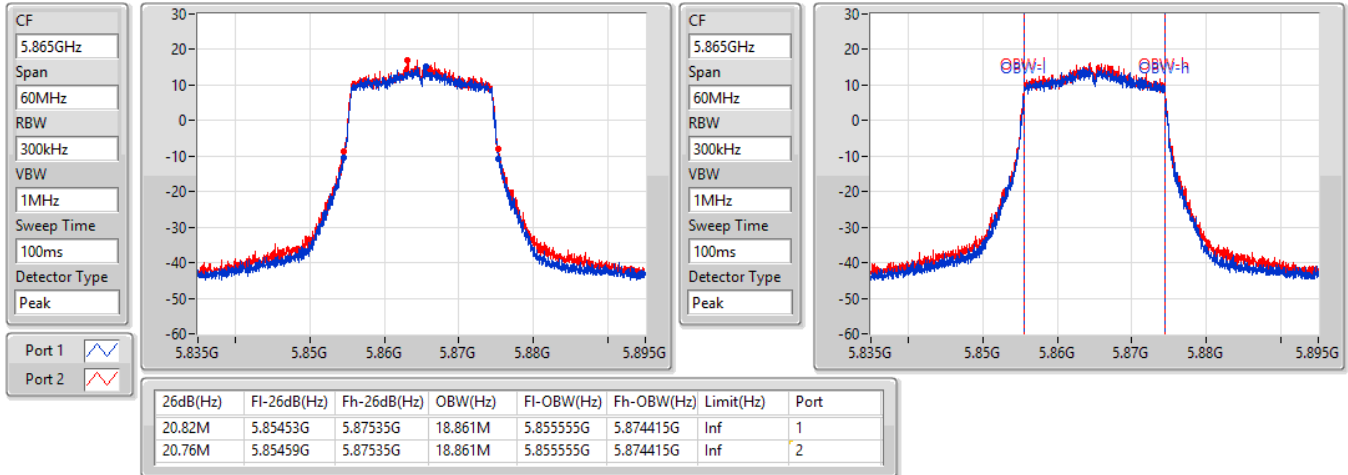

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5845MHz Straddle 5.85-5.895GHz

07/09/2021

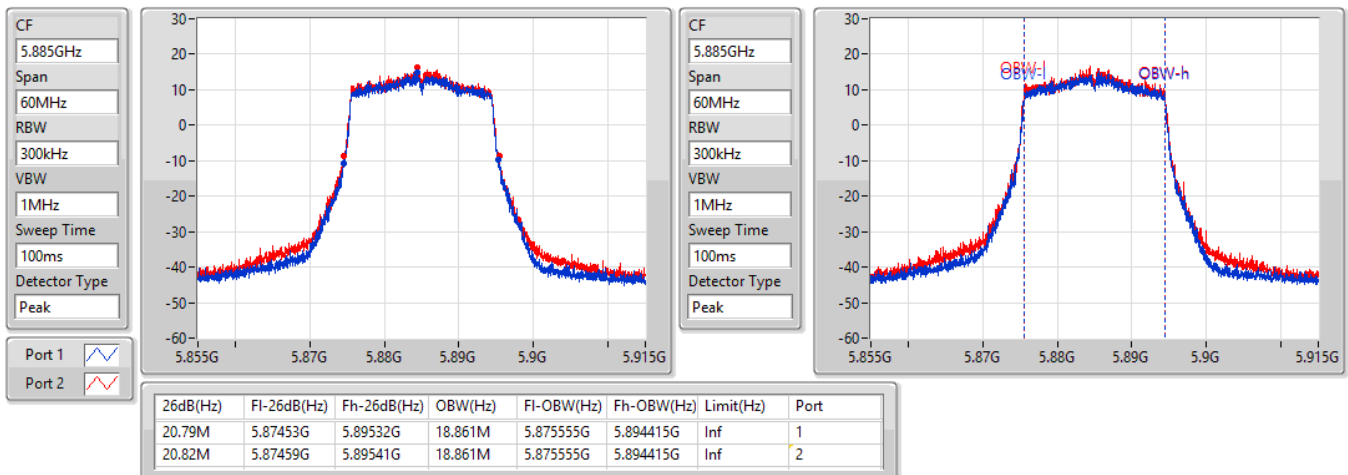


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5865MHz

07/09/2021

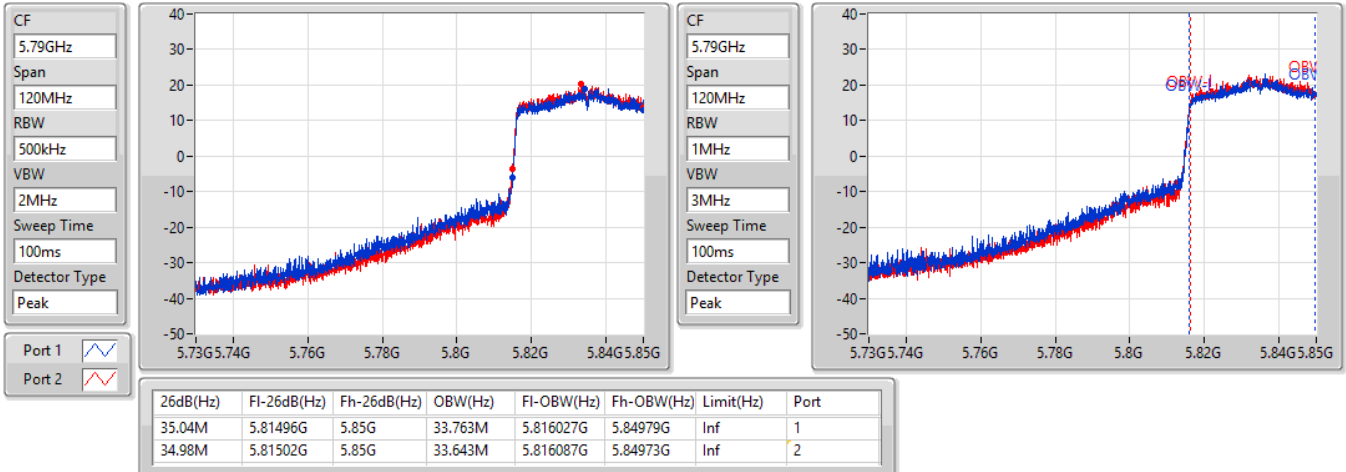

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5885MHz

07/09/2021

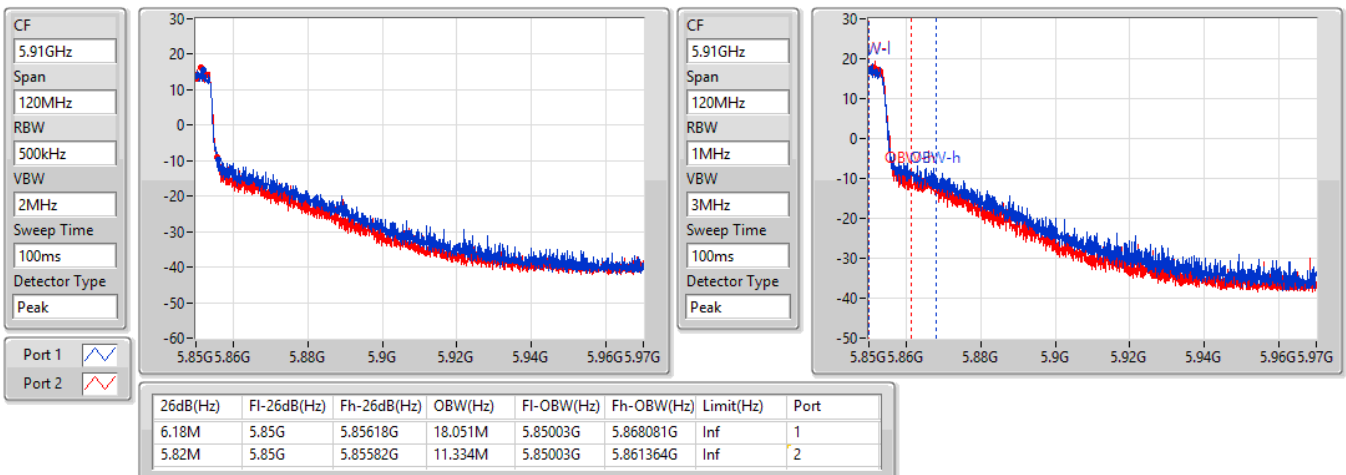


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5835MHz Straddle 5.725-5.85GHz

07/09/2021

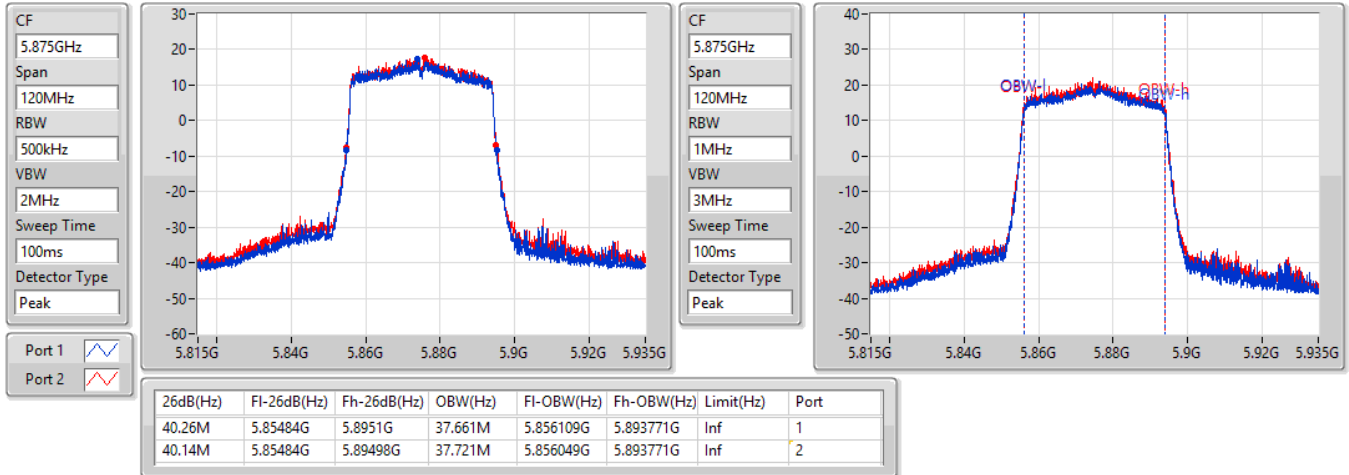

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5835MHz Straddle 5.85-5.895GHz

07/09/2021

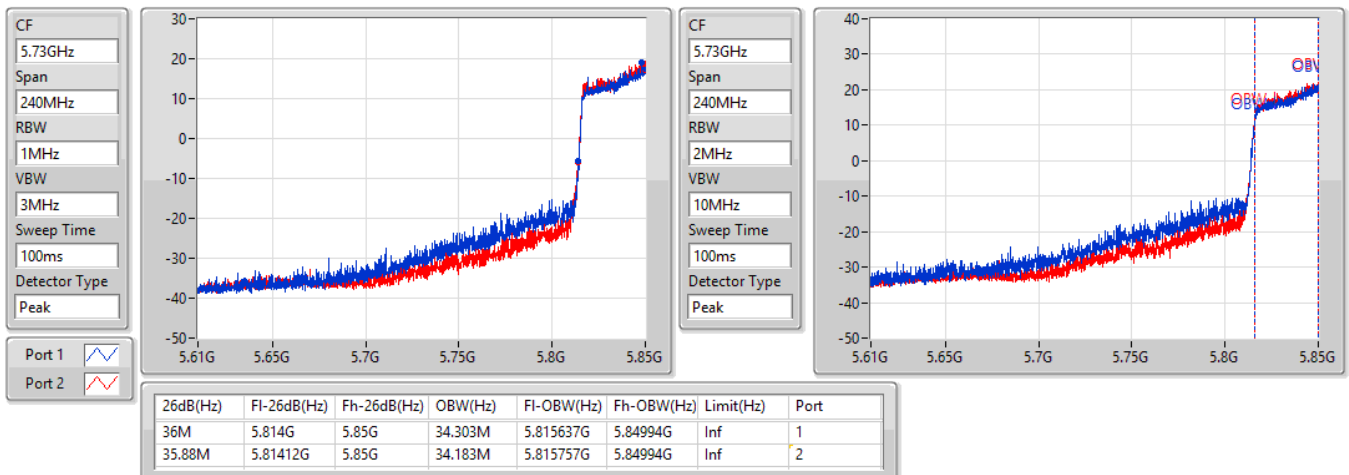


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5875MHz

07/09/2021

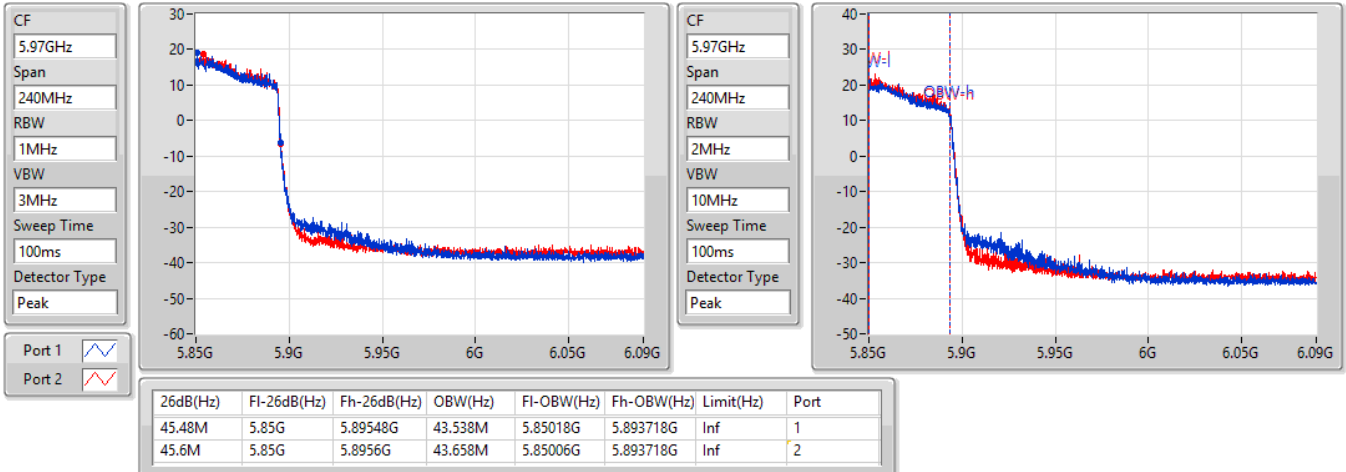

802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5855MHz Straddle 5.725-5.85GHz

07/09/2021

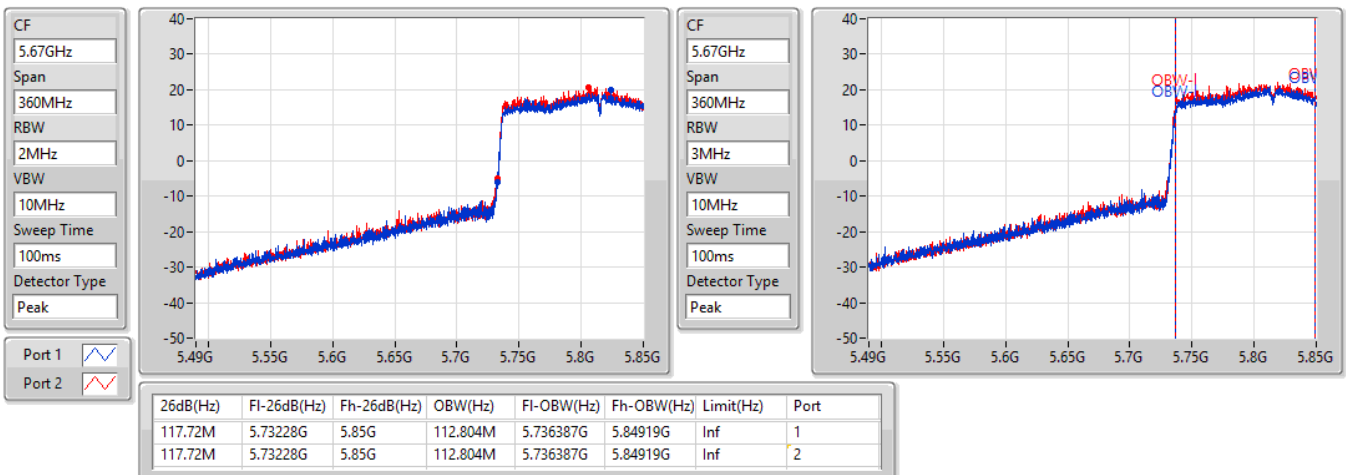


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5855MHz Straddle 5.85-5.895GHz

07/09/2021


802.11ax HEW160-BF_Nss1,(MCS0)_2TX
EBW
5815MHz Straddle 5.725-5.85GHz

07/09/2021

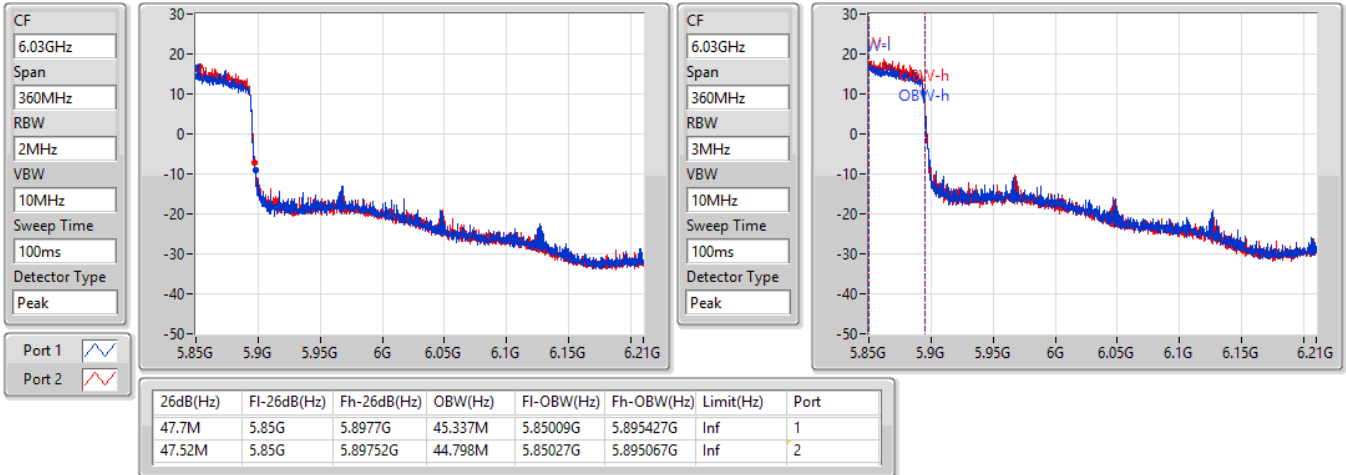


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW

5815MHz Straddle 5.85-5.895GHz

07/09/2021



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.57	0.45394	30.24	1.05682
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	27.26	0.53211	33.62	2.30144
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	28.79	0.75683	35.15	3.27341
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	24.00	0.25119	30.36	1.08643
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	25.15	0.32734	31.51	1.41579
5.85-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.65	0.29174	28.46	0.70146
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.55	0.35892	32.06	1.60694
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	27.69	0.58749	34.20	2.63027
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	25.49	0.35400	32.00	1.58489
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	17.65	0.05821	24.16	0.26062

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	3.67	23.27	23.84	26.57	30.00	30.24	36.00
5845MHz Straddle 5.85-5.895GHz	Pass	3.81	15.51	16.02	18.78	Inf	22.59	36.00
5865MHz	Pass	3.81	21.71	21.37	24.55	Inf	28.36	36.00
5885MHz	Pass	3.81	21.83	21.45	24.65	Inf	28.46	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	6.36	23.89	24.59	27.26	29.64	33.62	36.00
5845MHz Straddle 5.85-5.895GHz	Pass	6.51	17.16	17.64	20.42	Inf	26.93	36.00
5865MHz	Pass	6.51	22.69	22.21	25.47	Inf	31.98	36.00
5885MHz	Pass	6.51	22.75	22.32	25.55	Inf	32.06	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5835MHz Straddle 5.725-5.85GHz	Pass	6.36	25.52	26.03	28.79	29.64	35.15	36.00
5835MHz Straddle 5.85-5.895GHz	Pass	6.51	14.12	14.70	17.43	Inf	23.94	36.00
5875MHz	Pass	6.51	24.78	24.58	27.69	Inf	34.20	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5855MHz Straddle 5.725-5.85GHz	Pass	6.36	20.67	21.28	24.00	29.64	30.36	36.00
5855MHz Straddle 5.85-5.895GHz	Pass	6.51	22.39	22.57	25.49	Inf	32.00	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5815MHz Straddle 5.725-5.85GHz	Pass	6.36	21.88	22.39	25.15	29.64	31.51	36.00
5815MHz Straddle 5.85-5.895GHz	Pass	6.51	14.63	14.65	17.65	Inf	24.16	36.00

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

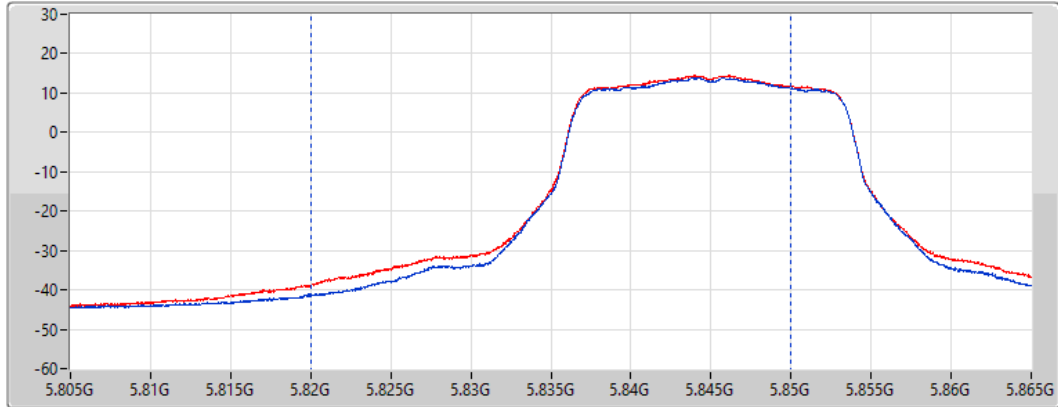
802.11a_Nss1,(6Mbps)_2TX

AV Power

5845MHz Straddle 5.725-5.895GHz_TnomVnom

28/07/2021

CF
5.835GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
26.57	23.27	23.84

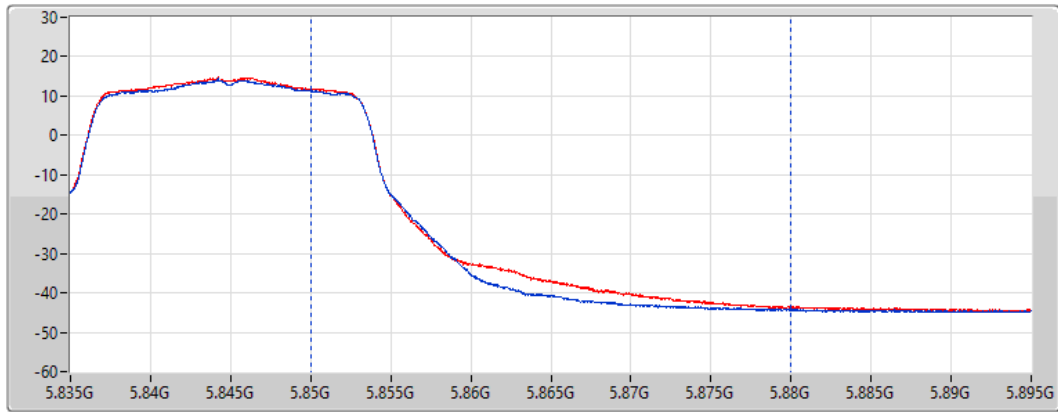
802.11a_Nss1,(6Mbps)_2TX

AV Power

5845MHz Straddle 5.85-5.895GHz_TnomVnom

28/07/2021

CF
5.865GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

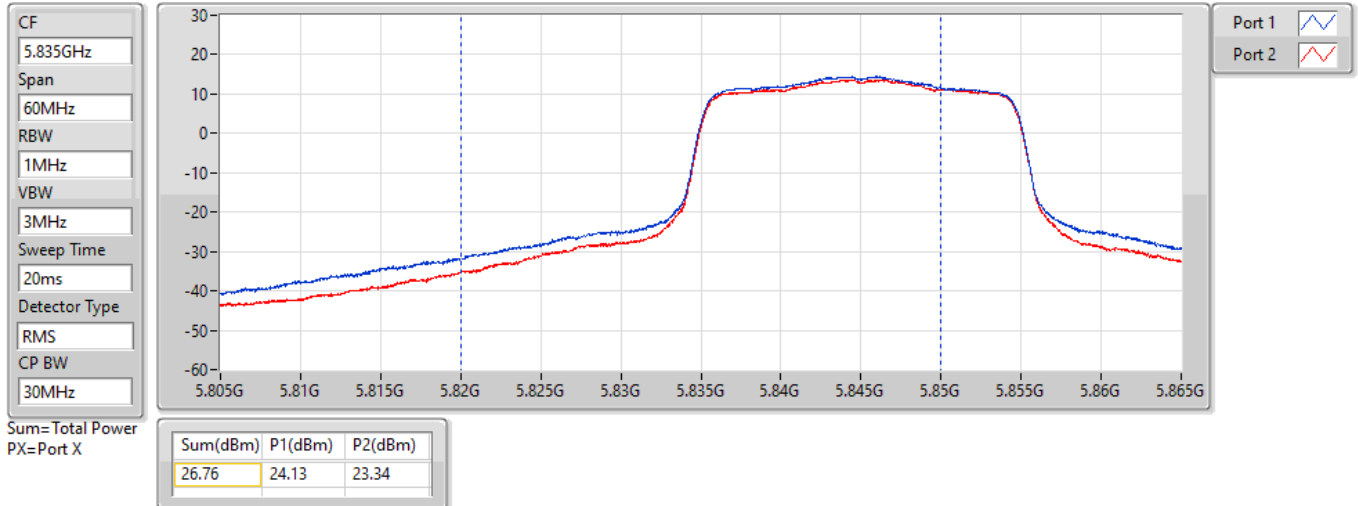
Sum(dBm)	P1(dBm)	P2(dBm)
18.78	15.51	16.02

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

5845MHz Straddle 5.725-5.895GHz_TnomVnom

21/07/2021

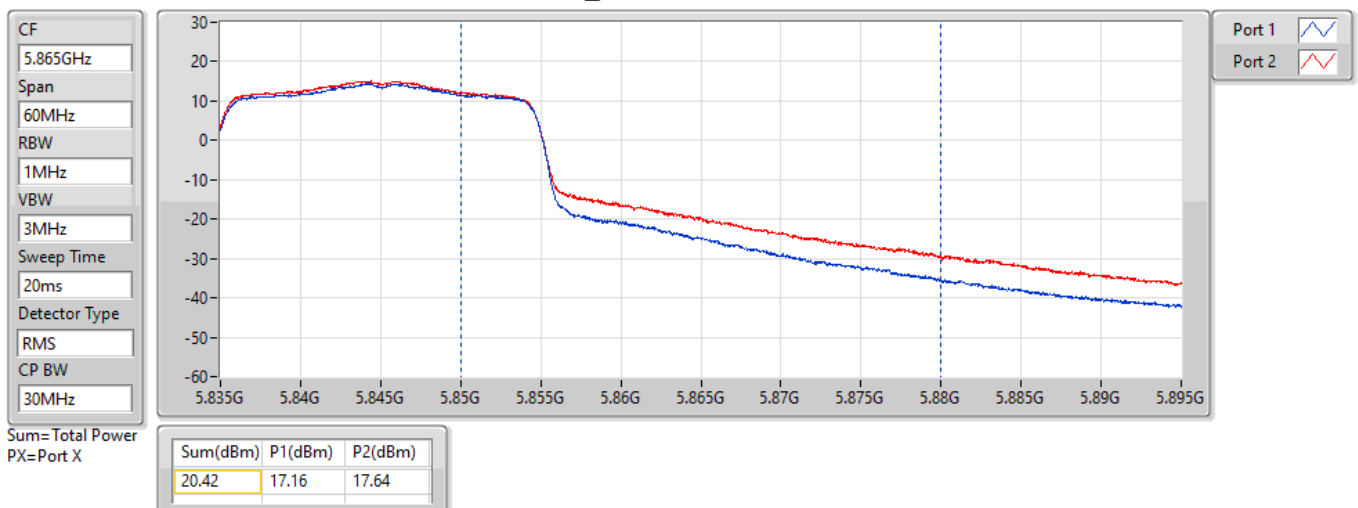


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

5845MHz Straddle 5.85-5.895GHz_TnomVnom

28/07/2021

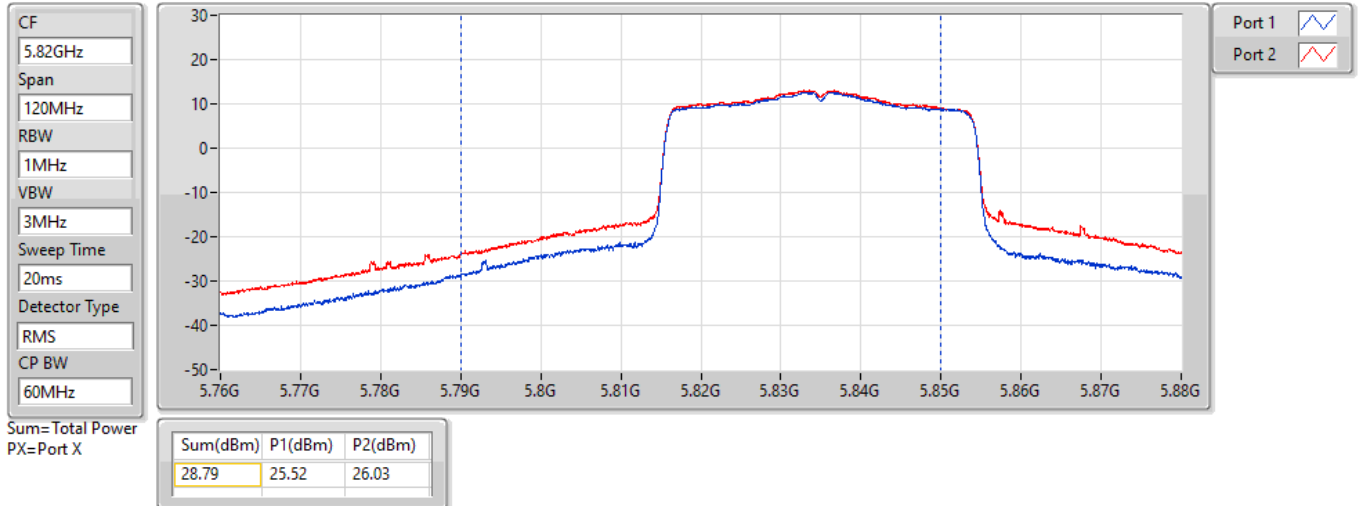


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

5835MHz Straddle 5.725-5.895GHz_TnomVnom

28/07/2021

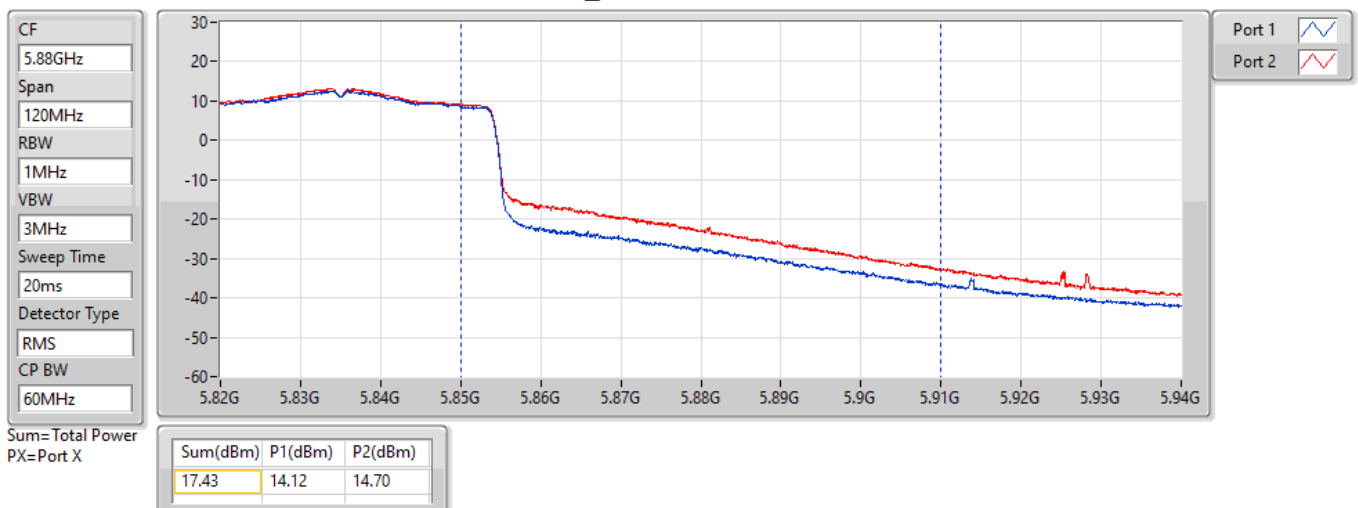


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

5835MHz Straddle 5.85-5.895GHz_TnomVnom

28/07/2021



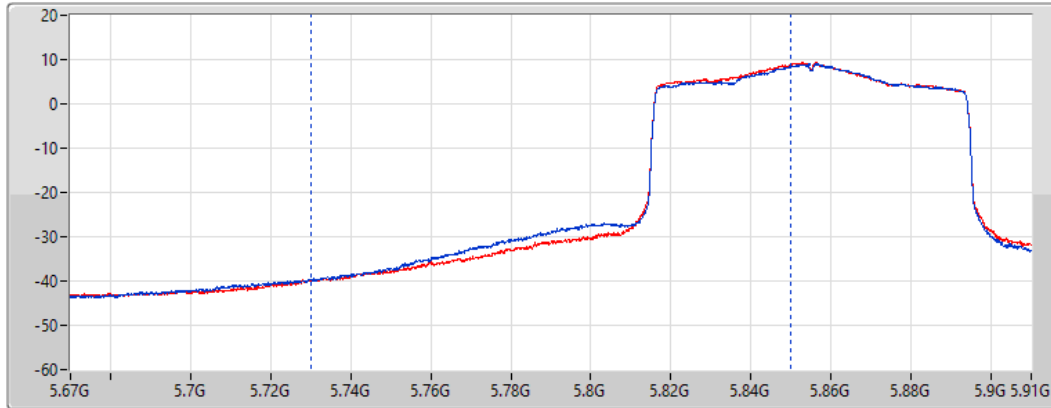
802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

5855MHz Straddle 5.725-5.895GHz_TnomVnom

28/07/2021

CF
5.79GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
120MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
24.00	20.67	21.28

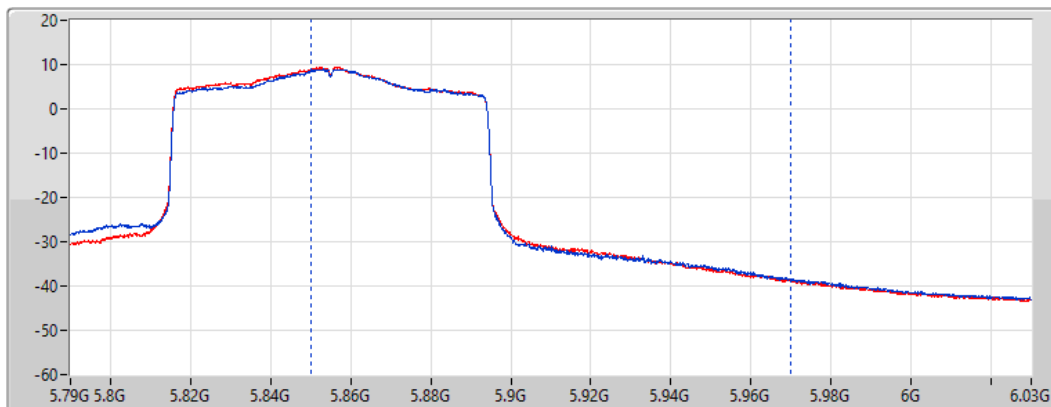
802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

5855MHz Straddle 5.85-5.895GHz_TnomVnom

28/07/2021

CF
5.91GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
120MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

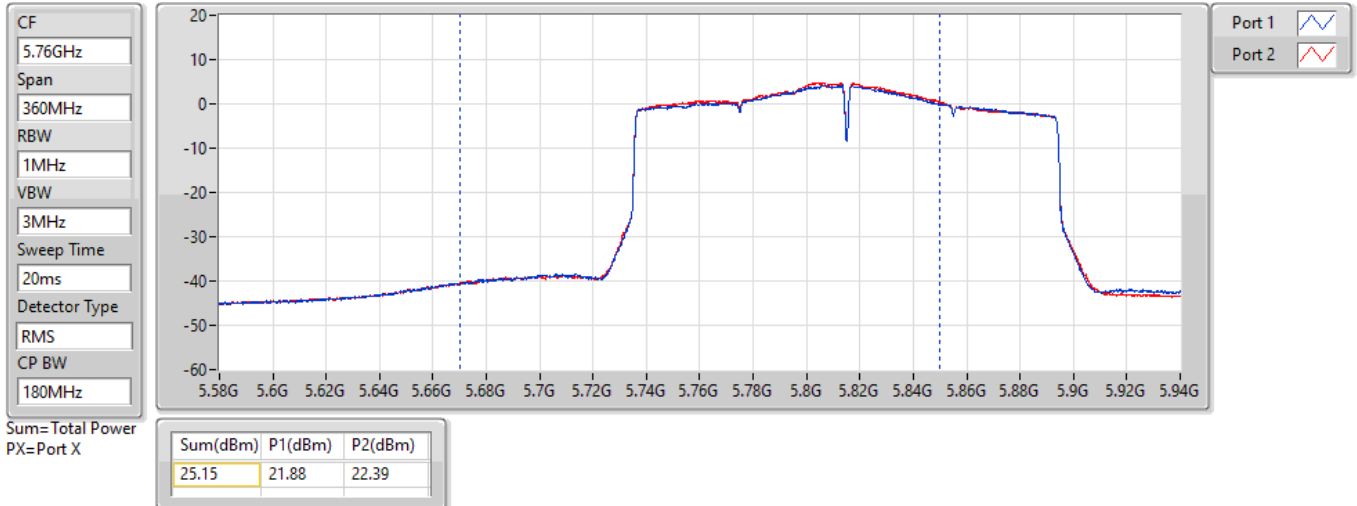
Sum(dBm)	P1(dBm)	P2(dBm)
25.49	22.39	22.57

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

AV Power

5815MHz Straddle 5.725-5.895GHz_TnomVnom

28/07/2021

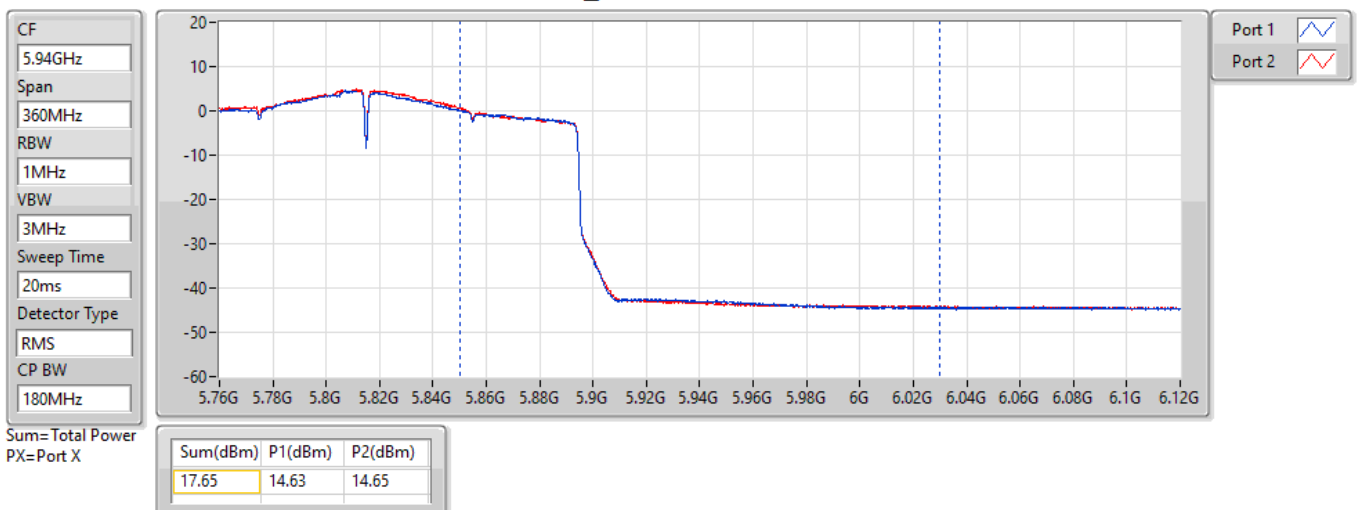


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

AV Power

5815MHz Straddle 5.85-5.895GHz_TnomVnom

28/07/2021



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	16.20	22.56
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	16.16	22.52
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	14.38	20.74
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	10.02	16.38
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	6.34	12.7
5.85-5.895GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	13.38	19.89
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	13.48	19.99
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	13.05	19.56
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	10.74	17.10
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	1.85	8.36

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

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5845MHz Straddle 5.725-5.85GHz	Pass	6.36	16.20	29.64	22.56	Inf
5845MHz Straddle 5.85-5.895GHz	Pass	6.51	13.02	Inf	19.53	20.00
5865MHz	Pass	6.51	13.13	Inf	19.64	20.00
5885MHz	Pass	6.51	13.38	Inf	19.89	20.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5845MHz Straddle 5.725-5.85GHz		6.36	16.16	29.64	22.52	Inf
5845MHz Straddle 5.85-5.895GHz	Pass	6.51	13.31	Inf	19.82	20.00
5865MHz	Pass	6.51	13.38	Inf	19.89	20.00
5885MHz	Pass	6.51	13.48	Inf	19.99	20.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5835MHz Straddle 5.725-5.85GHz	Pass	6.36	14.38	29.64	20.74	Inf
5835MHz Straddle 5.85-5.895GHz	Pass	6.51	10.48	Inf	16.99	20.00
5875MHz	Pass	6.51	13.05	Inf	19.56	20.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5855MHz Straddle 5.725-5.85GHz	Pass	6.36	10.02	29.64	16.38	Inf
5855MHz Straddle 5.85-5.895GHz	Pass	6.51	10.74	Inf	17.25	20.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5815MHz Straddle 5.725-5.85GHz	Pass	6.36	6.34	29.64	12.7	Inf
5815MHz Straddle 5.85-5.895GHz	Pass	6.51	1.85	Inf	8.36	20.00

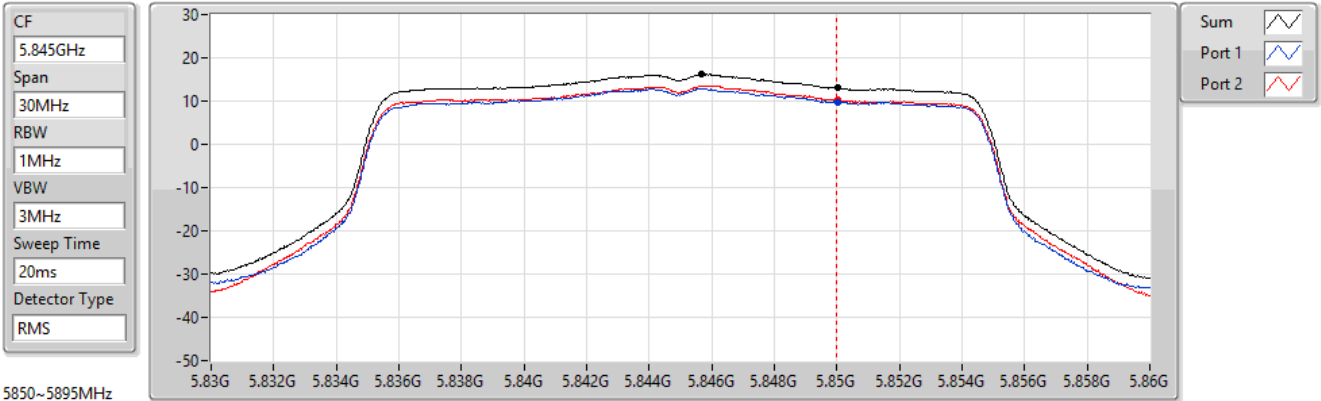
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5845MHz

05/10/2021



5725-5850MHz

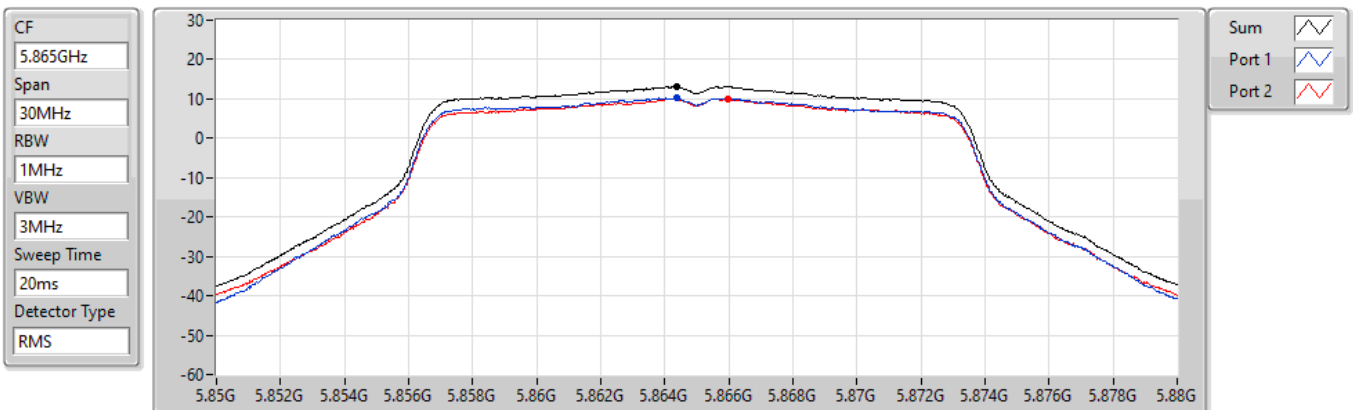
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
16.20	13.19	500k	-3.01

802.11a_Nss1,(6Mbps)_2TX

PSD

5865MHz

21/07/2021



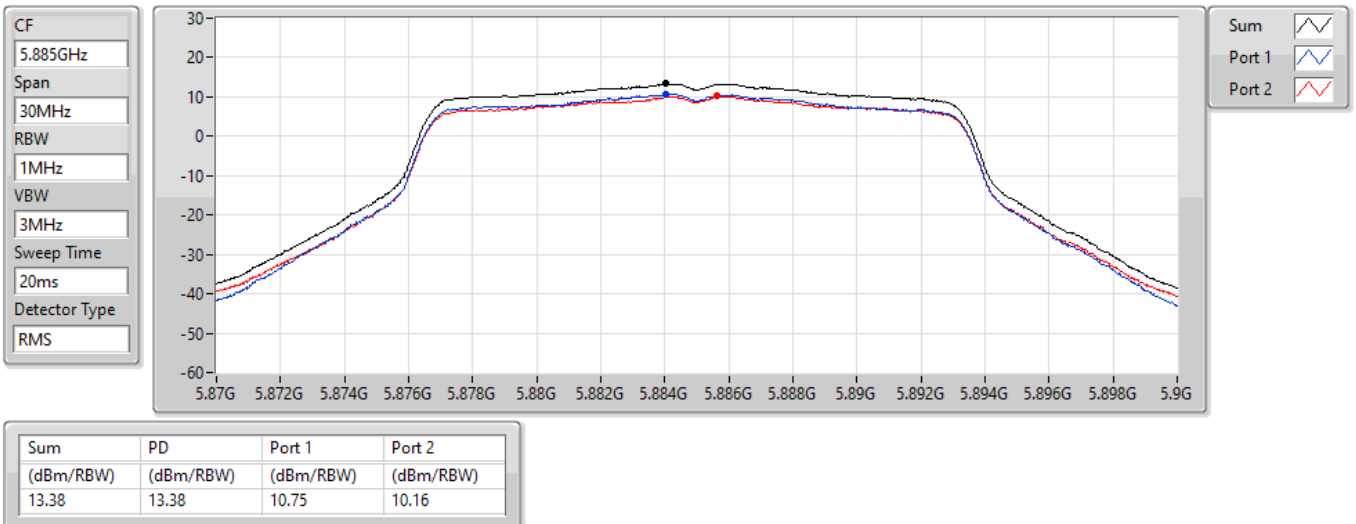
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.13	13.13	10.33	10.13

802.11a_Nss1,(6Mbps)_2TX

PSD

5885MHz

21/07/2021

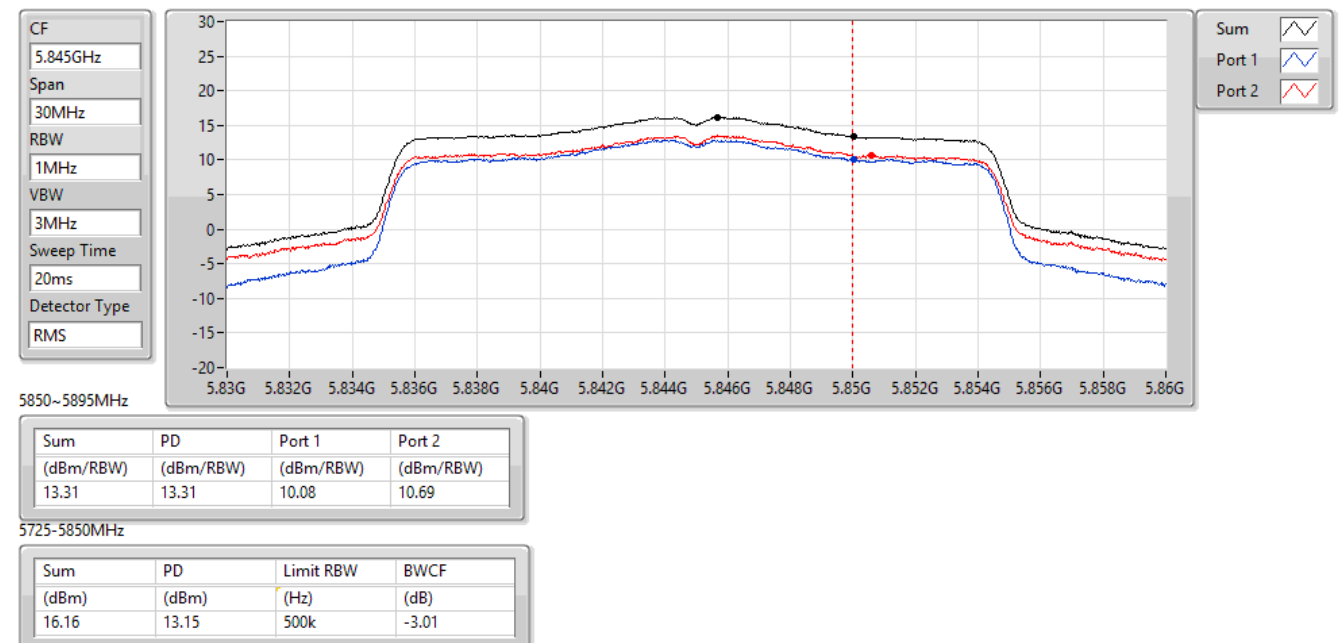


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5845MHz

05/10/2021

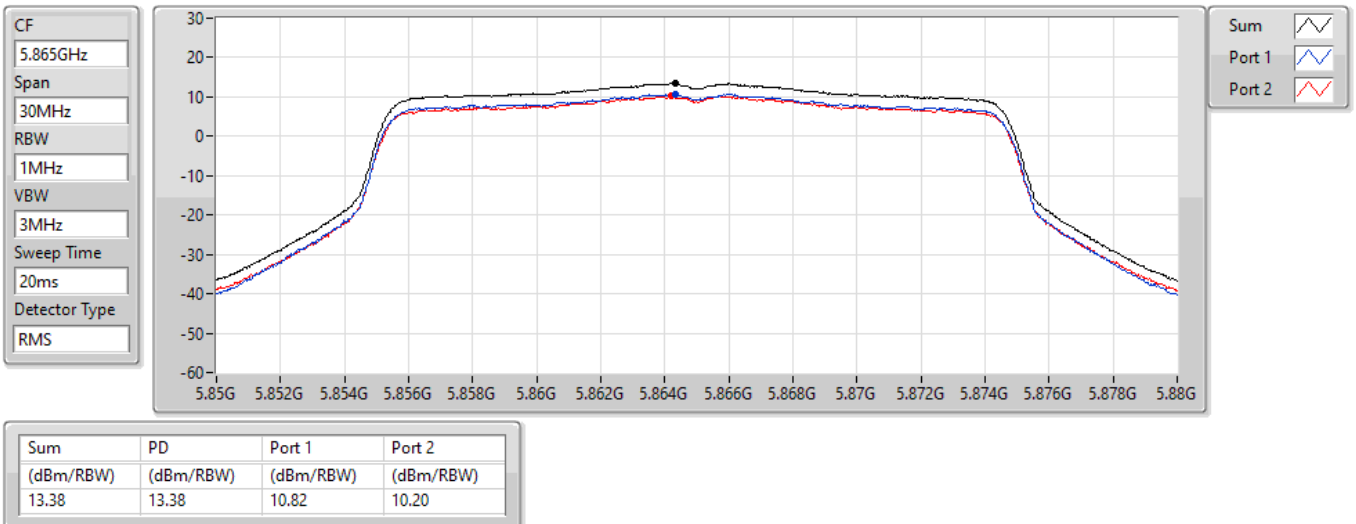


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5865MHz

21/07/2021

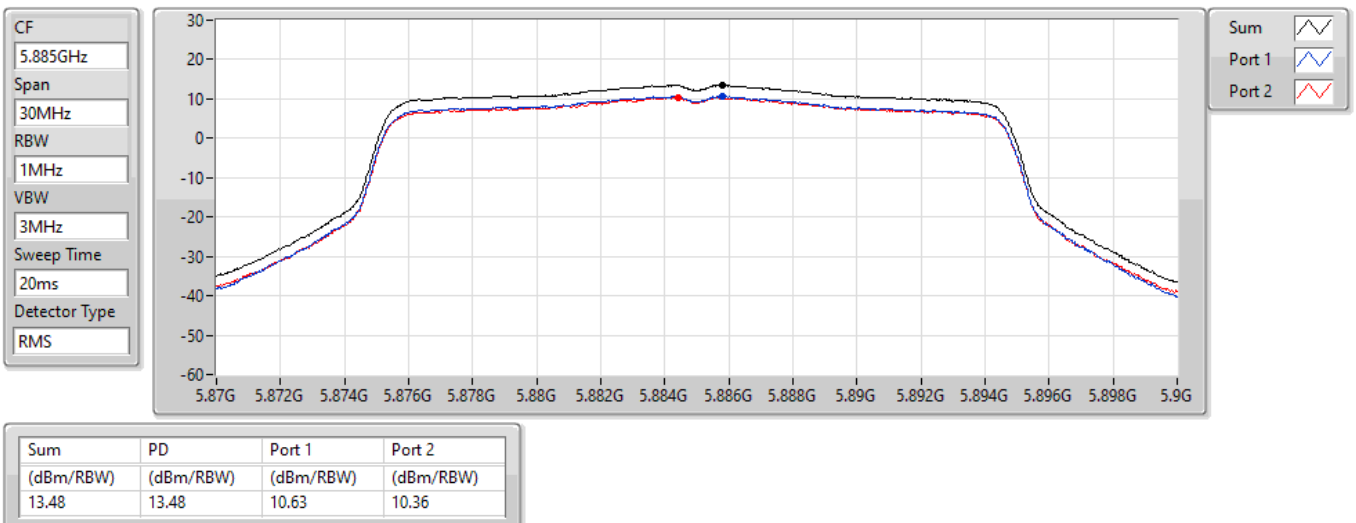


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5885MHz

21/07/2021

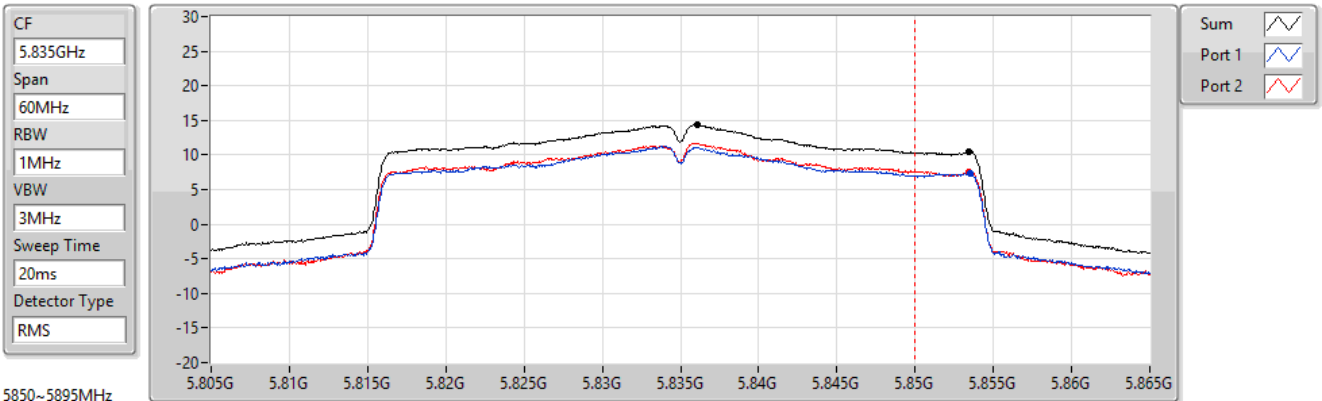


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5835MHz

05/10/2021



5725-5850MHz

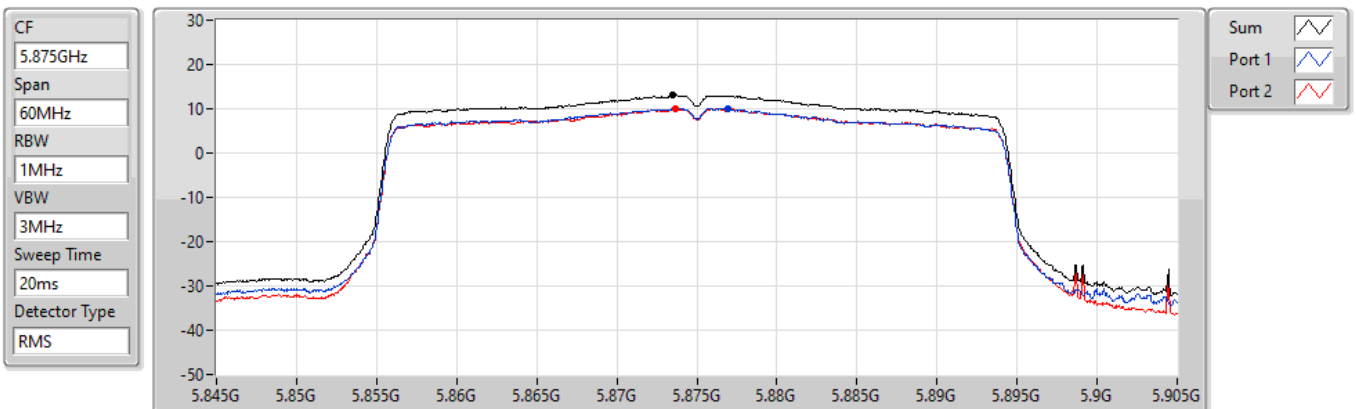
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
14.38	11.37	500k	-3.01

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5875MHz

21/07/2021



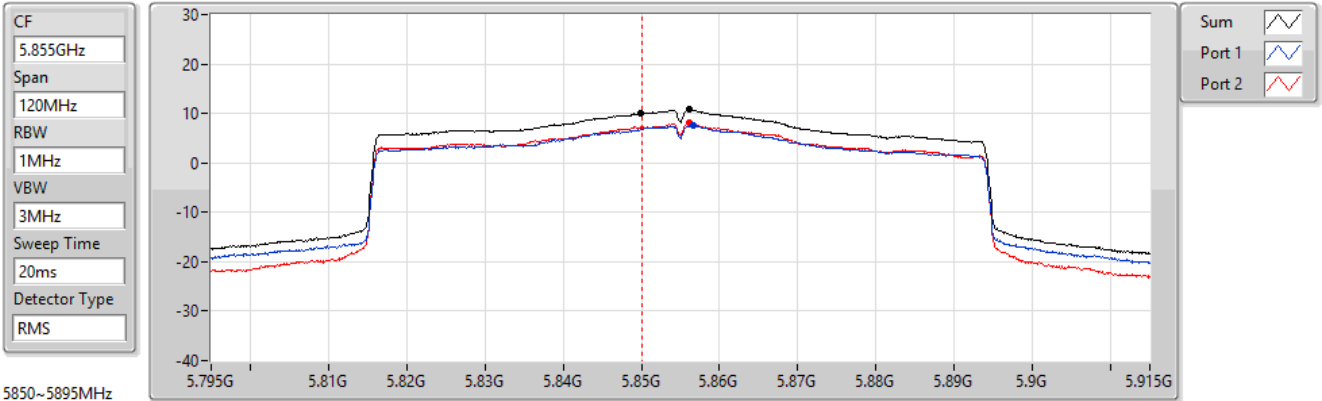
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.05	13.05	10.13	10.07

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

PSD

5855MHz

05/10/2021



5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.74	10.74	7.51	8.05

5725-5850MHz

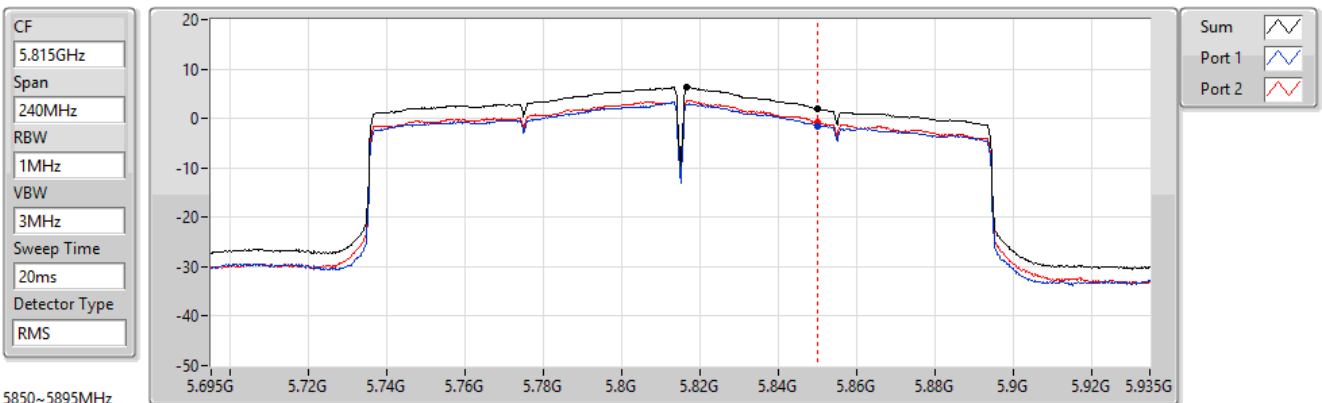
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
10.02	7.01	500k	-3.01

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

PSD

5815MHz

05/10/2021



5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.85	1.85	-1.49	-0.86

5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
6.34	3.33	500k	-3.01



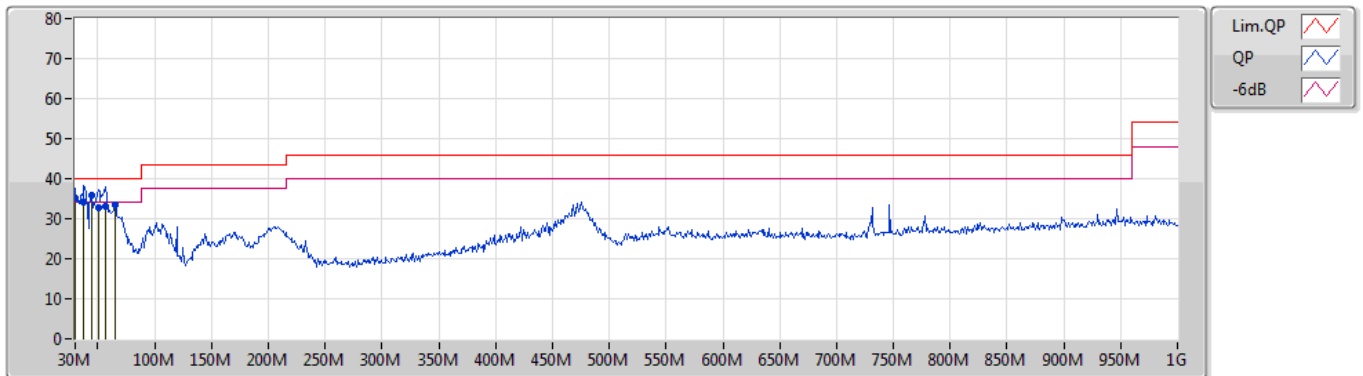
Radiated Emissions below 1GHz

Appendix E.1

Summary

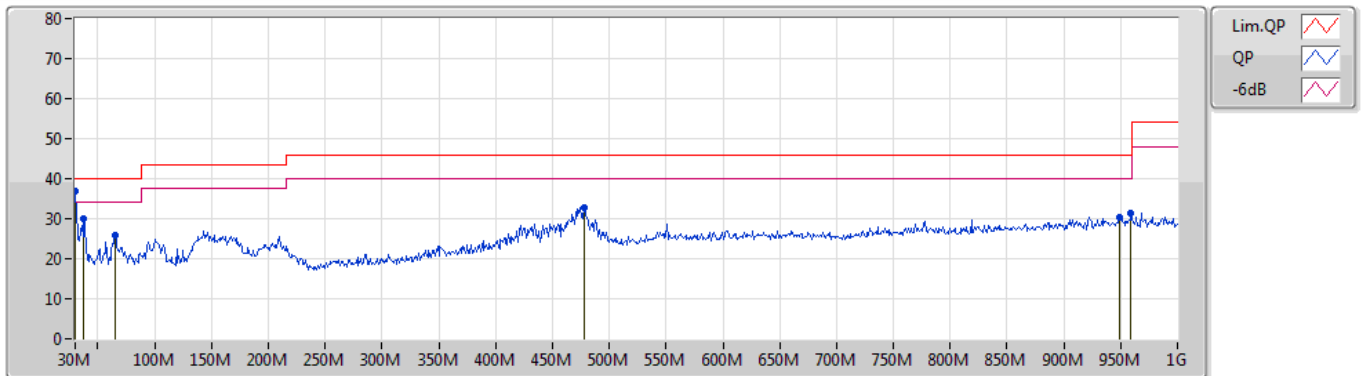
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	30M	36.99	40.00	-3.01	Horizontal

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	30M	35.31	40.00	-4.69	-4.21	3	Vertical	209	2.00	-	39.52	23.67	0.61	28.49
QP	37.76M	34.00	40.00	-6.00	-7.46	3	Vertical	271	1.25	-	41.46	20.29	0.73	28.48
PK	44.55M	35.69	40.00	-4.31	-10.84	3	Vertical	10	1.00	"Worst"	46.53	16.87	0.77	28.48
QP	50.37M	32.65	40.00	-7.35	-13.75	3	Vertical	4	1.00	-	46.40	13.91	0.83	28.49
QP	57.16M	33.01	40.00	-6.99	-15.31	3	Vertical	352	1.25	-	48.32	12.28	0.90	28.49
PK	64.92M	33.45	40.00	-6.55	-15.56	3	Vertical	99	1.25	-	49.01	11.97	0.95	28.48

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	36.99	40.00	-3.01	-4.21	3	Horizontal	322	2.00	"Worst"	41.20	23.67	0.61	28.49
PK	37.76M	30.01	40.00	-9.99	-7.46	3	Horizontal	291	1.25	-	37.47	20.29	0.73	28.48
PK	64.92M	25.86	40.00	-14.14	-15.56	3	Horizontal	261	2.00	-	41.42	11.97	0.95	28.48
PK	478.14M	32.69	46.00	-13.31	-3.79	3	Horizontal	142	1.00	-	36.48	22.65	2.66	29.10
PK	948.59M	30.40	46.00	-15.60	1.20	3	Horizontal	7	1.00	-	29.20	25.91	3.85	28.56
PK	959.26M	31.22	46.00	-14.78	1.28	3	Horizontal	360	1.00	-	29.94	25.94	3.87	28.53

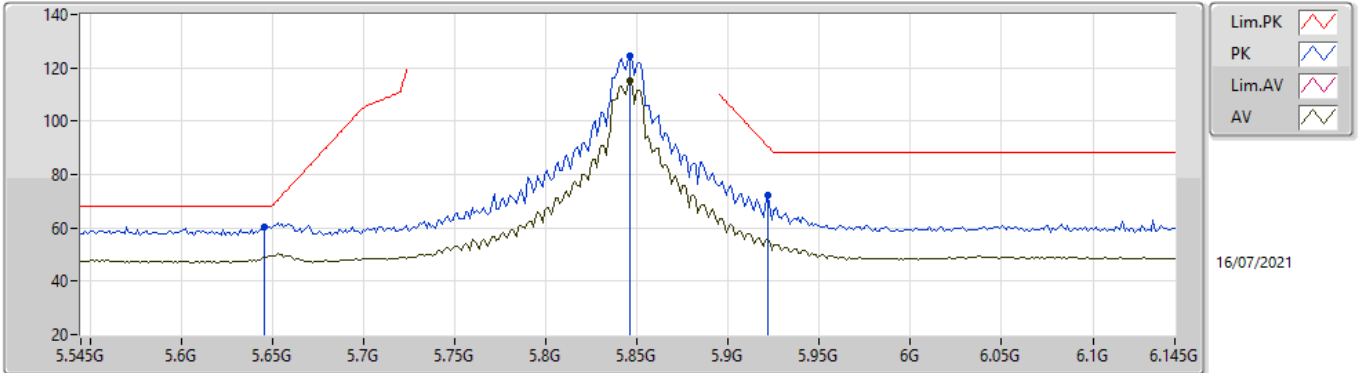


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	Pass	PK	5.6342G	67.18	68.20	-1.02	3	Vertical	67.5	1.68	-

802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

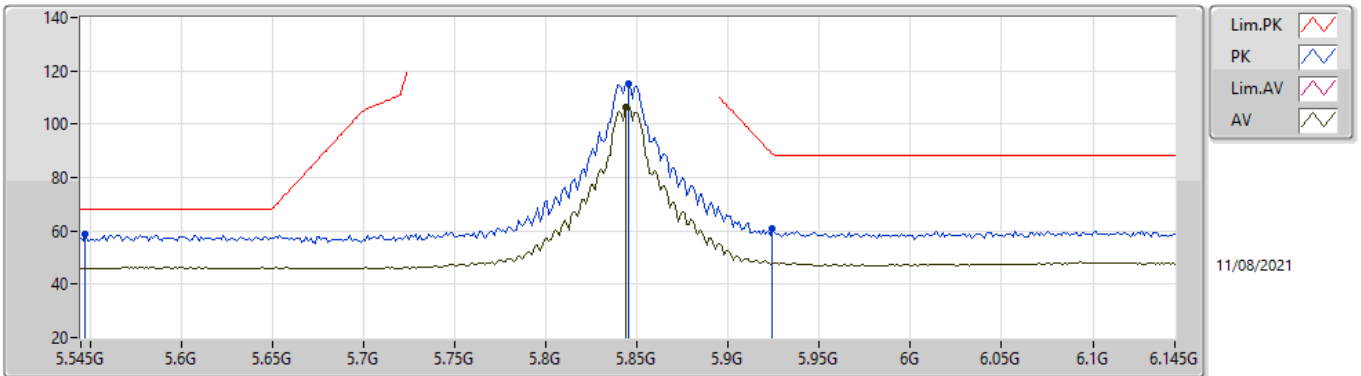


EUT_Z_2TX
Setting 26.5
04-C-K-4-10

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	5.6458G	60.57	68.20	-7.63	53.99	3	Vertical	66	1.44	-	33.90	5.92	33.24
PK	5.8462G	124.63	Inf	-Inf	117.42	3	Vertical	66	1.44	-	34.48	6.05	33.32
AV	5.8462G	115.15	Inf	-Inf	107.94	3	Vertical	66	1.44	-	34.48	6.05	33.32
PK	5.9218G	72.11	90.55	-18.44	64.45	3	Vertical	66	1.44	-	34.89	6.12	33.35

802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

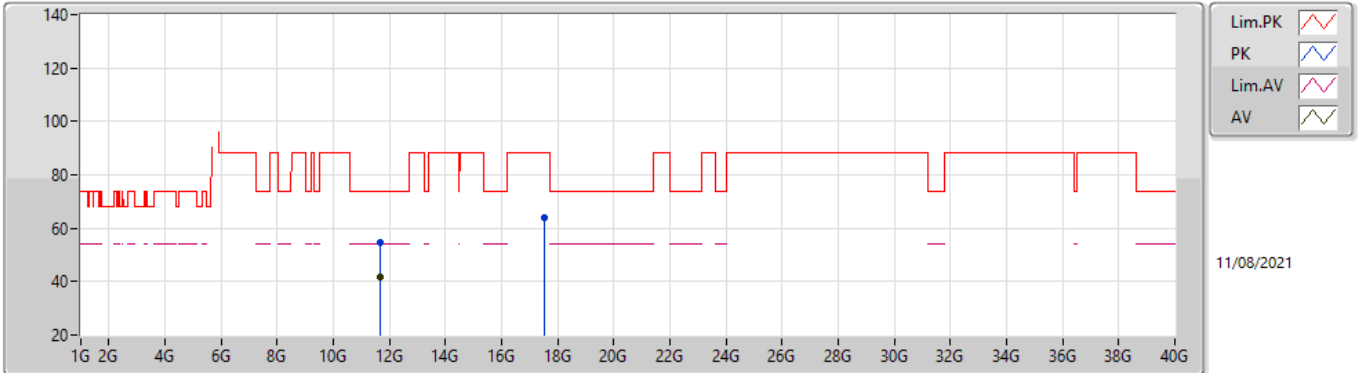


EUT_Z_2TX
Setting 26.5
01-A-B-2-10

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	5.5474G	58.82	68.20	-9.38	52.63	3	Horizontal	224	2.93	-	33.69	5.40	32.90
PK	5.845G	115.33	Inf	-Inf	108.28	3	Horizontal	224	2.93	-	34.48	5.50	32.93
AV	5.8438G	106.51	Inf	-Inf	99.46	3	Horizontal	224	2.93	-	34.48	5.50	32.93
PK	5.9242G	60.78	88.79	-28.01	53.32	3	Horizontal	224	2.93	-	34.90	5.50	32.94

802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

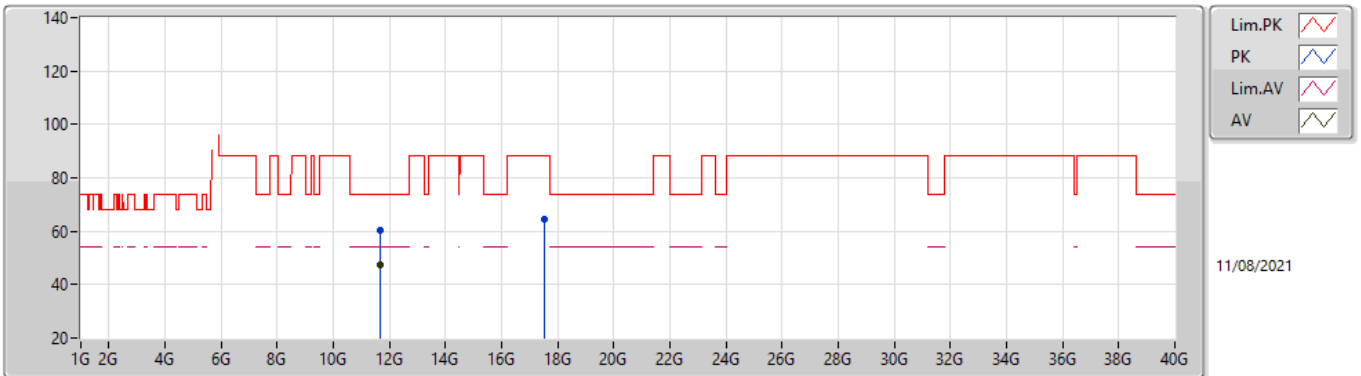


EUT_Z_2TX
Setting 26.5
01-A-B-2

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	11.68334G	54.82	74.00	-19.18	41.29	3	Vertical	63	2.90	-	38.48	7.89	32.84
AV	11.69258G	41.67	54.00	-12.33	28.13	3	Vertical	63	2.90	-	38.49	7.89	32.84
PK	17.52228G	64.02	88.20	-24.18	43.75	3	Vertical	196	1.35	-	42.30	9.83	31.86

802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

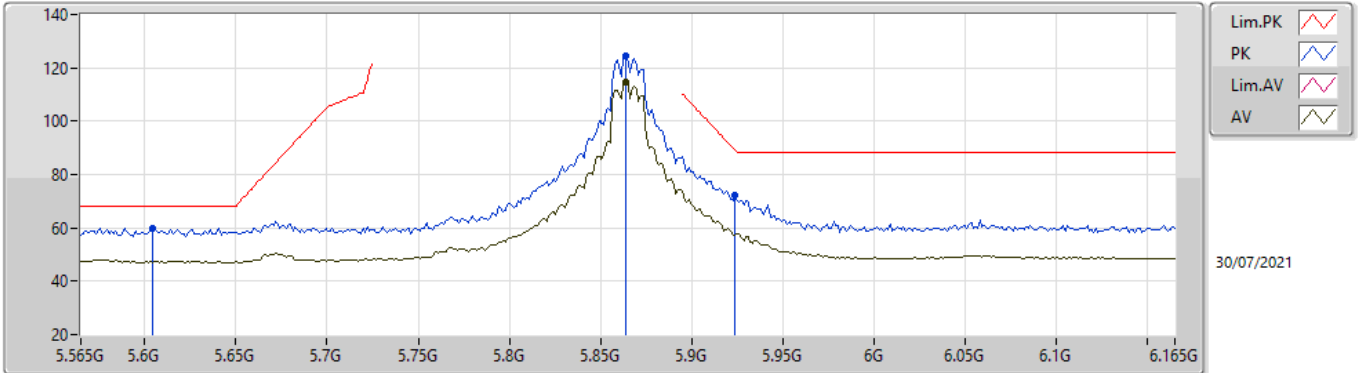


EUT_Z_2TX
Setting 26.5
01-A-B-2

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	11.6864G	60.60	74.00	-13.40	47.06	3	Horizontal	130	2.12	-	38.49	7.89	32.84
AV	11.6921G	47.20	54.00	-6.80	33.66	3	Horizontal	130	2.12	-	38.49	7.89	32.84
PK	17.54544G	64.40	88.20	-23.80	44.11	3	Horizontal	109	1.80	-	42.30	9.84	31.85

802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

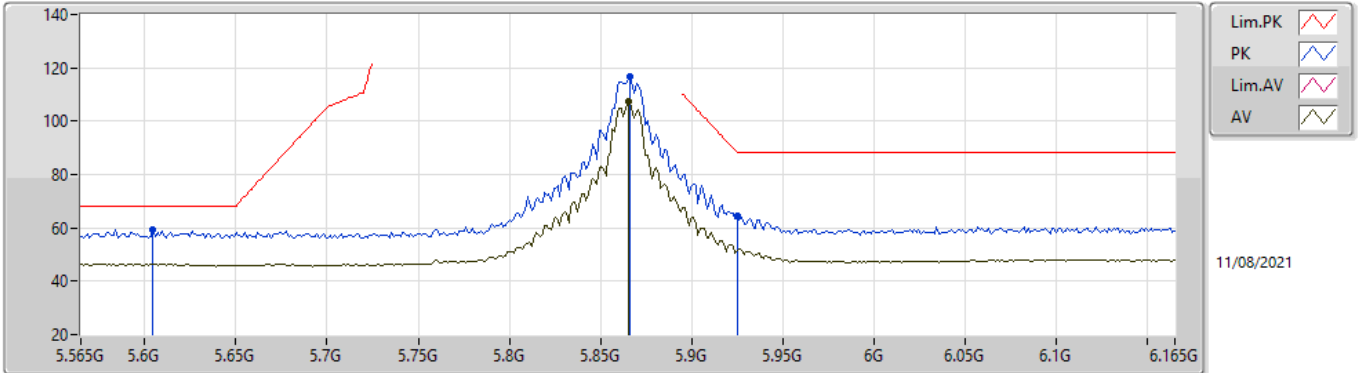


EUT_Z_2TX
Setting 26.5
04-C-K-4-10

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	5.6046G	59.79	68.20	-8.41	53.21	3	Vertical	236	1.50	-	33.90	5.90	33.22	
PK	5.8638G	124.37	Inf	-Inf	117.06	3	Vertical	236	1.50	-	34.58	6.06	33.33	
AV	5.8638G	114.47	Inf	-Inf	107.16	3	Vertical	236	1.50	-	34.58	6.06	33.33	
PK	5.9238G	72.15	89.08	-16.93	64.48	3	Vertical	236	1.50	-	34.90	6.12	33.35	

802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

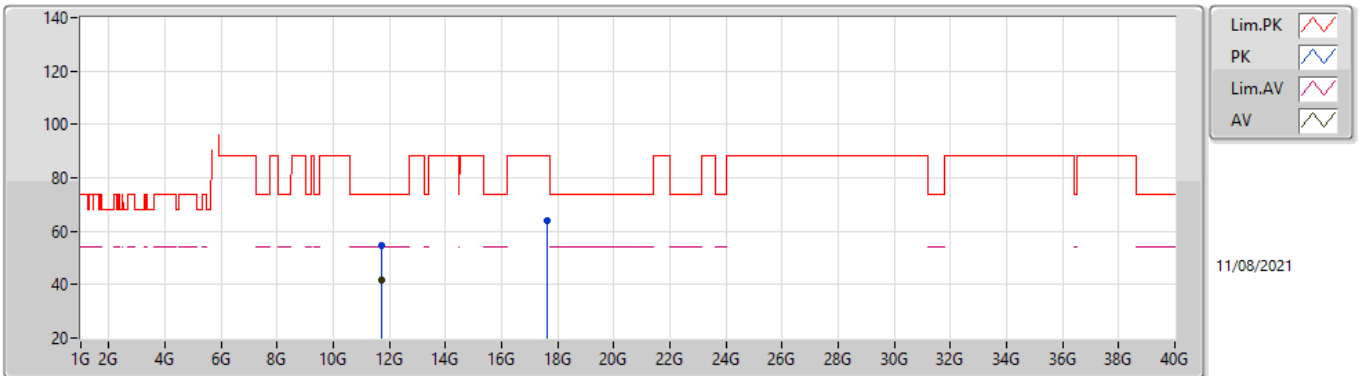


EUT_Z_2TX
Setting 26.5
01-A-B-2-10

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	5.6046G	59.25	68.20	-8.95	52.95	3	Horizontal	233	2.90	-	33.81	5.40	32.91	
PK	5.8662G	116.50	Inf	-Inf	109.34	3	Horizontal	233	2.90	-	34.60	5.50	32.94	
AV	5.865G	107.27	Inf	-Inf	100.12	3	Horizontal	233	2.90	-	34.59	5.50	32.94	
PK	5.925G	64.45	88.20	-23.75	56.99	3	Horizontal	233	2.90	-	34.90	5.50	32.94	

802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

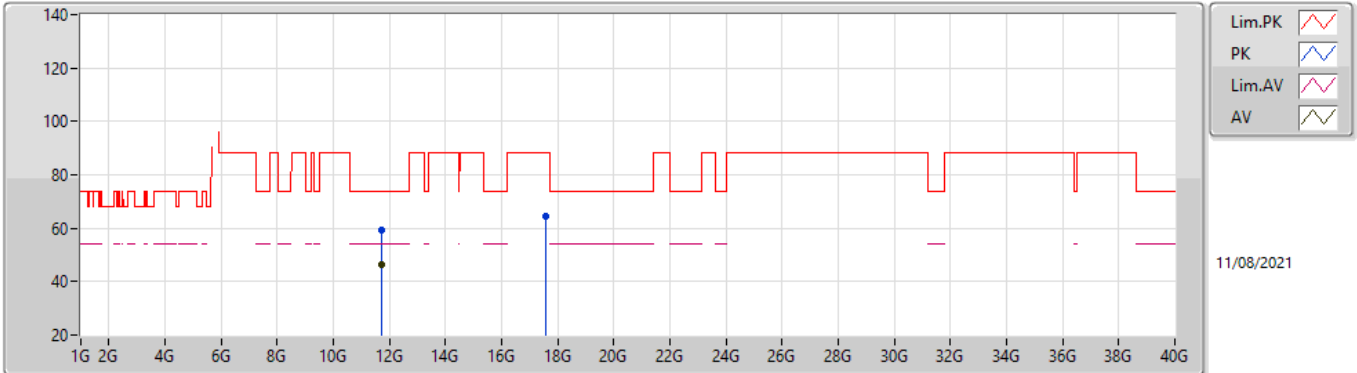


EUT_Z_2TX
Setting 26.5
01-A-B-2

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	11.72718G	54.50	74.00	-19.50	40.97	3	Vertical	131	1.68	-	38.47	7.90	32.84
AV	11.72904G	41.79	54.00	-12.21	28.25	3	Vertical	131	1.68	-	38.47	7.91	32.84
PK	17.6088G	64.06	88.20	-24.14	43.73	3	Vertical	359	2.91	-	42.29	9.86	31.82

802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

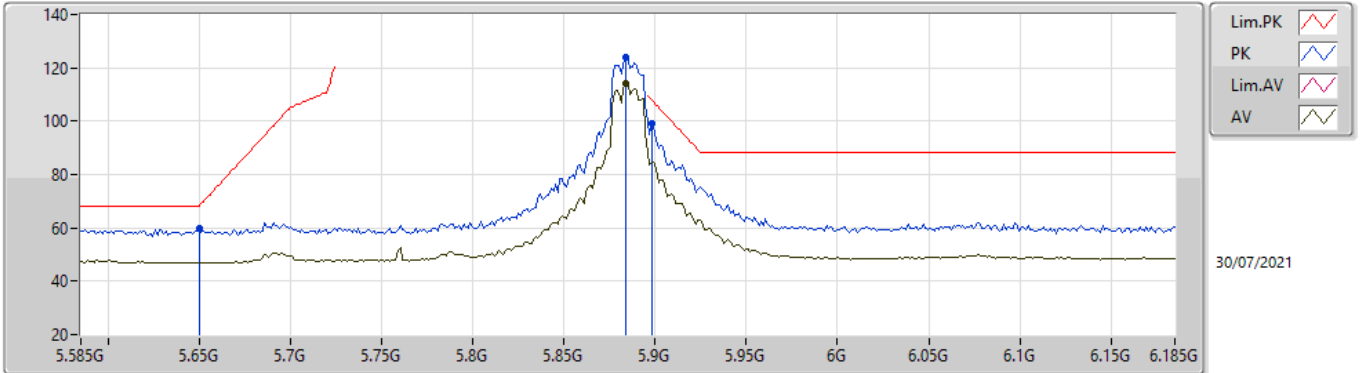


EUT_Z_2TX
Setting 26.5
01-A-B-2

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	11.72754G	59.38	74.00	-14.62	45.85	3	Horizontal	123	2.07	-	38.47	7.90	32.84
AV	11.73234G	46.31	54.00	-7.69	32.77	3	Horizontal	123	2.07	-	38.47	7.91	32.84
PK	17.58072G	64.29	88.20	-23.91	43.97	3	Horizontal	234	1.80	-	42.30	9.85	31.83

802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

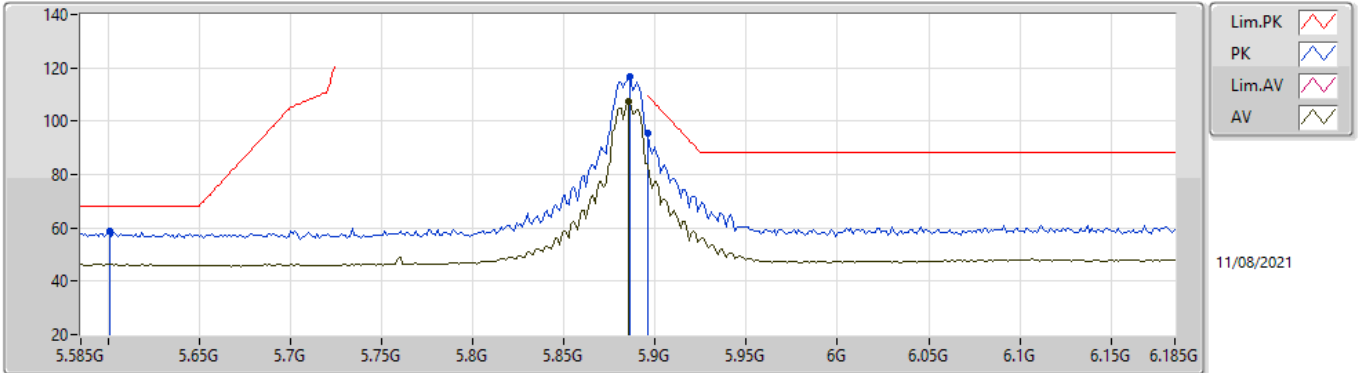


EUT_Z_2TX
Setting 26
04-C-K-4-10

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	5.6498G	59.67	68.20	-8.53	53.09	3	Vertical	238	1.59	-	33.90	5.92	33.24
PK	5.8838G	123.97	Inf	-Inf	116.52	3	Vertical	238	1.59	-	34.70	6.08	33.33
AV	5.8838G	114.36	Inf	-Inf	106.91	3	Vertical	238	1.59	-	34.70	6.08	33.33
PK	5.8982G	99.12	107.85	-8.73	91.57	3	Vertical	238	1.59	-	34.79	6.10	33.34

802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

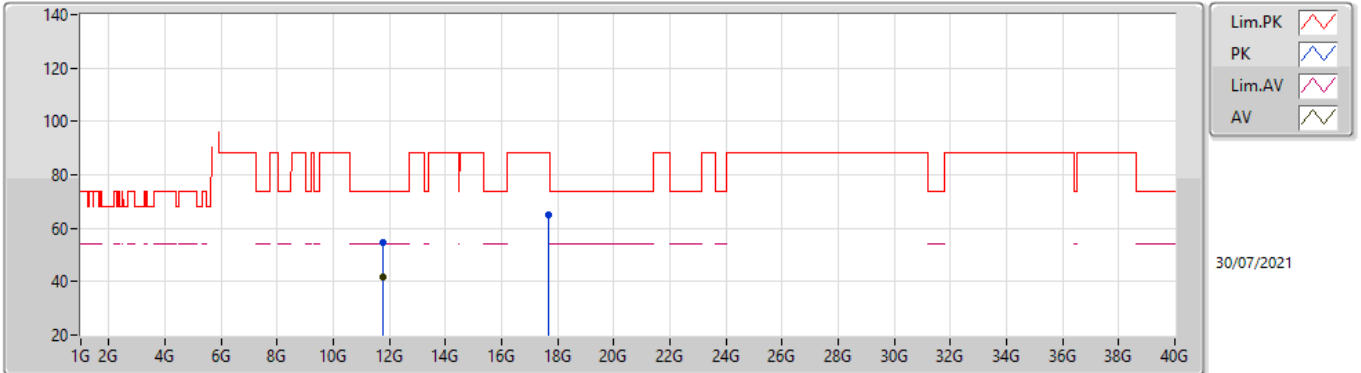


EUT_Z_2TX
Setting 26
01-A-B-2-10

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	5.6006G	58.60	68.20	-9.60	52.31	3	Horizontal	231	2.92	-	33.80	5.40	32.91	
PK	5.8862G	116.66	Inf	-Inf	109.38	3	Horizontal	231	2.92	-	34.72	5.50	32.94	
AV	5.885G	107.28	Inf	-Inf	100.01	3	Horizontal	231	2.92	-	34.71	5.50	32.94	
PK	5.8958G	95.33	109.61	-14.28	88.00	3	Horizontal	231	2.92	-	34.77	5.50	32.94	

802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

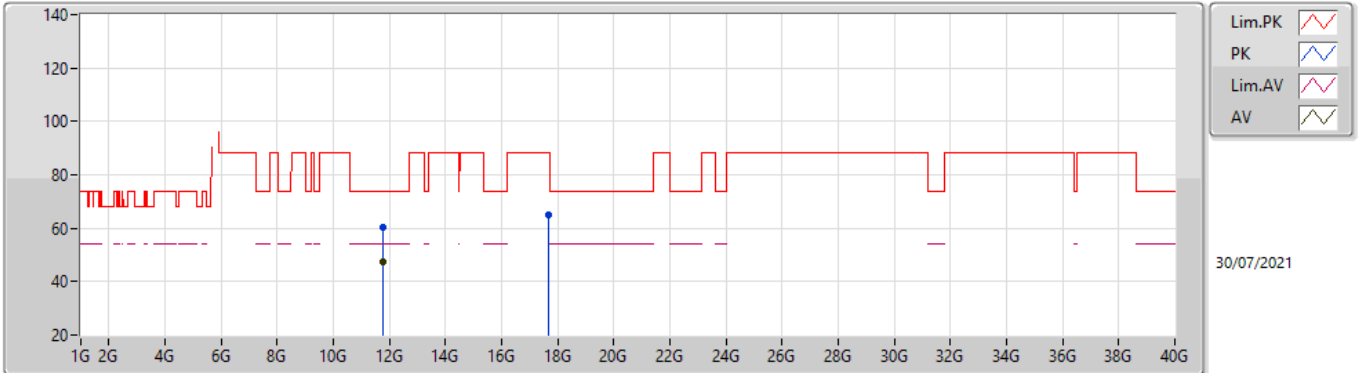


EUT_Z_2TX
Setting 26
02-A-K-3

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	11.7637G	54.48	74.00	-19.52	40.65	3	Vertical	65	3.00	-	39.40	7.72	33.29	
AV	11.7674G	41.93	54.00	-12.07	28.10	3	Vertical	65	3.00	-	39.40	7.72	33.29	
PK	17.6688G	65.04	88.20	-23.16	43.52	3	Vertical	306	1.80	-	45.39	9.37	33.24	

802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

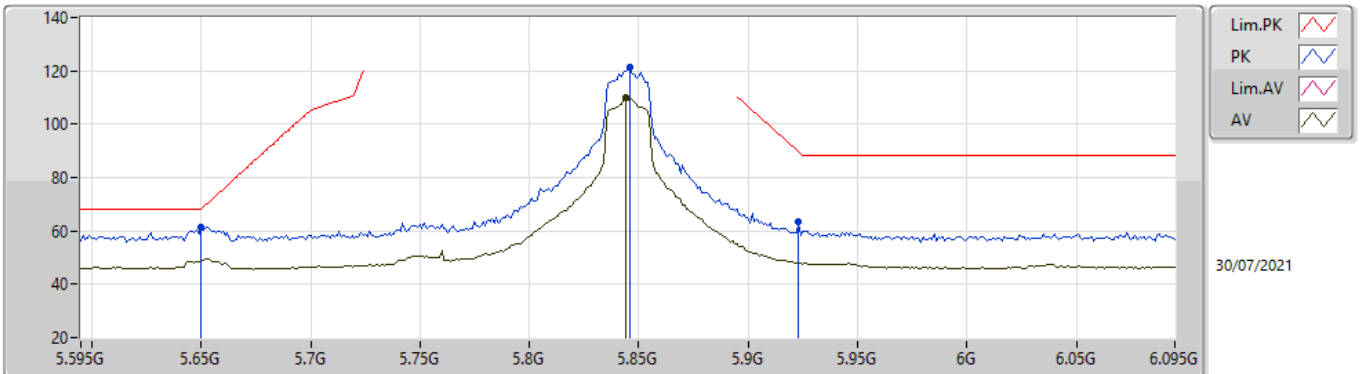


EUT_Z_2TX
Setting 26
02-A-K-3

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	11.7707G	60.13	74.00	-13.87	46.30	3	Horizontal	127	2.12	-	39.40	7.72	33.29
AV	11.7718G	47.27	54.00	-6.73	33.44	3	Horizontal	127	2.12	-	39.40	7.72	33.29
PK	17.6562G	64.76	88.20	-23.44	43.35	3	Horizontal	328	2.96	-	45.26	9.37	33.22

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

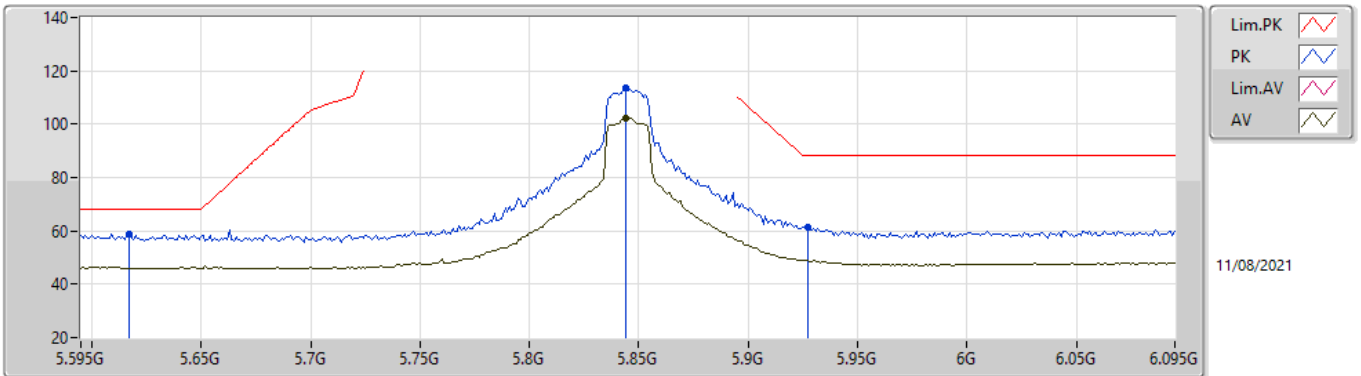


EUT_Z_2TX
Setting 29
02-A-K-3-10

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	61.29	68.20	-6.91	54.48	3	Vertical	65.3	1.80	-	33.80	5.15	32.14	
PK	5.846G	121.14	Inf	-Inf	114.36	3	Vertical	65.3	1.80	-	33.79	5.14	32.15	
AV	5.844G	110.19	Inf	-Inf	103.42	3	Vertical	65.3	1.80	-	33.79	5.13	32.15	
PK	5.923G	63.39	89.67	-26.28	56.13	3	Vertical	65.3	1.80	-	34.05	5.37	32.16	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

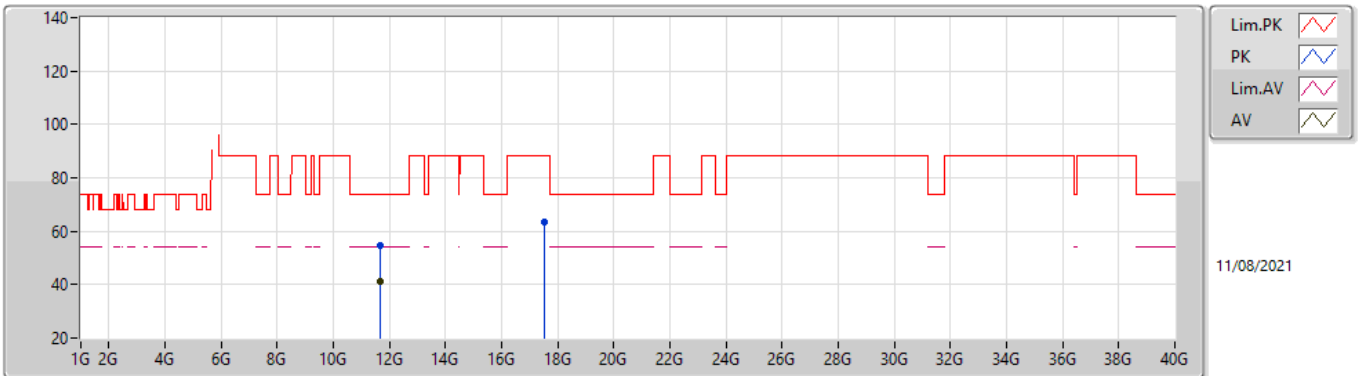


EUT_Z_2TX
Setting 29
01-A-B-2-10

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	5.617G	58.93	68.20	-9.27	52.60	3	Horizontal	223	3.00	-	33.83	5.41	32.91	
PK	5.844G	113.42	Inf	-Inf	106.37	3	Horizontal	223	3.00	-	34.48	5.50	32.93	
AV	5.844G	102.37	Inf	-Inf	95.32	3	Horizontal	223	3.00	-	34.48	5.50	32.93	
PK	5.927G	61.30	88.20	-26.90	53.83	3	Horizontal	223	3.00	-	34.91	5.50	32.94	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

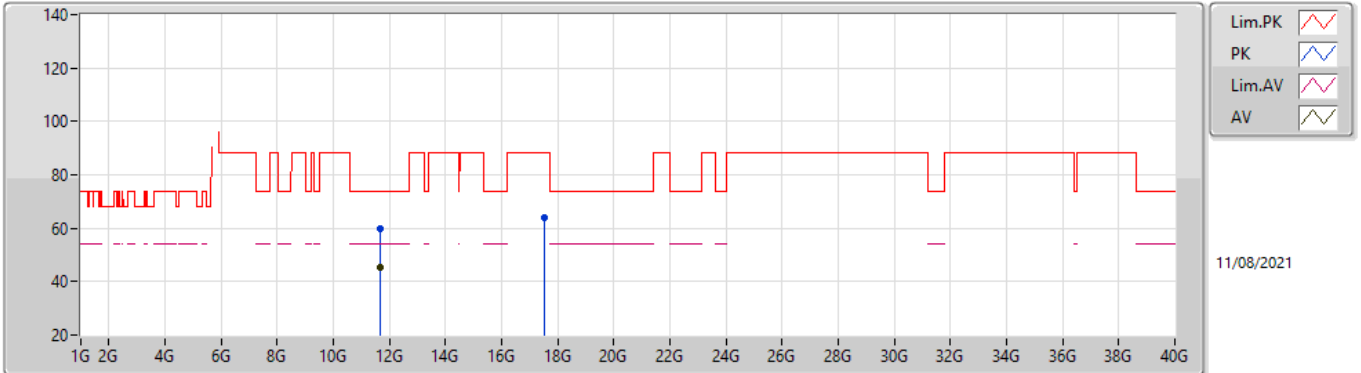


EUT_Z_2TX
Setting 29
01-A-B-2

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	11.68154G	54.56	74.00	-19.44	41.03	3	Vertical	347	1.71	-	38.48	7.89	32.84	
AV	11.68532G	41.43	54.00	-12.57	27.89	3	Vertical	347	1.71	-	38.49	7.89	32.84	
PK	17.52888G	63.61	88.20	-24.59	43.33	3	Vertical	82	1.94	-	42.30	9.84	31.86	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

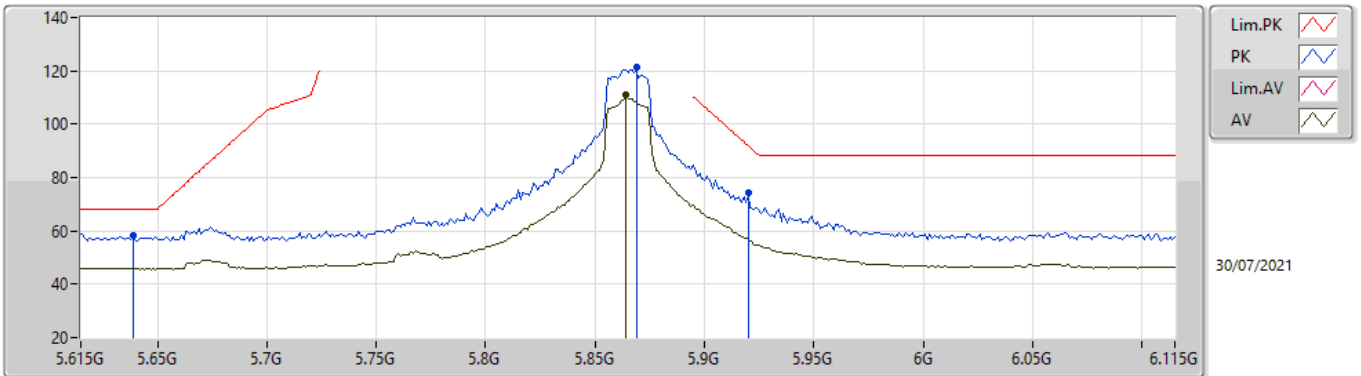


EUT_Z_2TX
Setting 29
01-A-B-2

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	11.68646G	59.93	74.00	-14.07	46.39	3	Horizontal	125	2.10	-	38.49	7.89	32.84
AV	11.68694G	45.09	54.00	-8.91	31.55	3	Horizontal	125	2.10	-	38.49	7.89	32.84
PK	17.53698G	63.73	88.20	-24.47	43.44	3	Horizontal	15.1	1.80	-	42.30	9.84	31.85

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

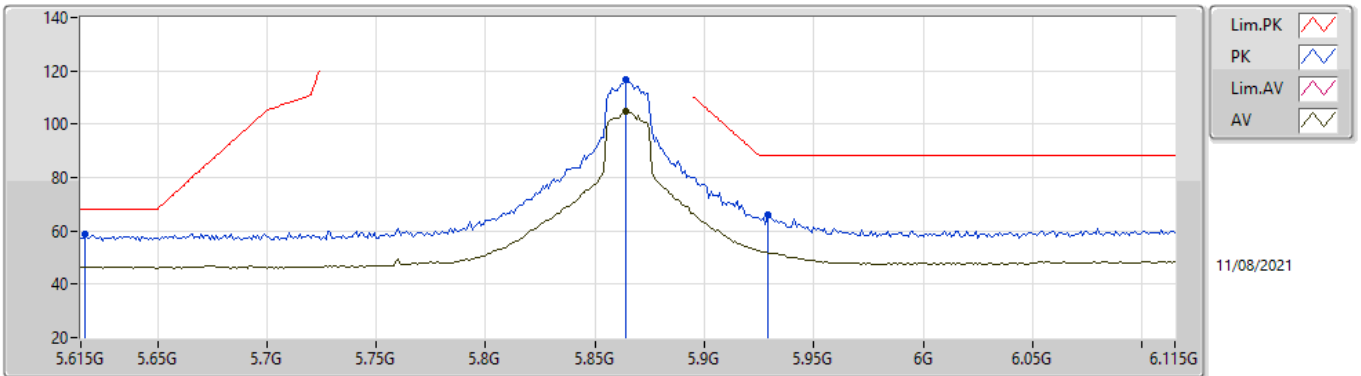


EUT_Z_2TX
Setting 29
02-A-K-3-10

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	5.639G	58.26	68.20	-9.94	51.42	3	Vertical	232	1.58	-	33.82	5.16	32.14
PK	5.869G	121.25	Inf	-Inf	114.31	3	Vertical	232	1.58	-	33.88	5.21	32.15
AV	5.864G	110.85	Inf	-Inf	103.95	3	Vertical	232	1.58	-	33.86	5.19	32.15
PK	5.92G	74.06	91.87	-17.81	66.82	3	Vertical	232	1.58	-	34.04	5.36	32.16

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

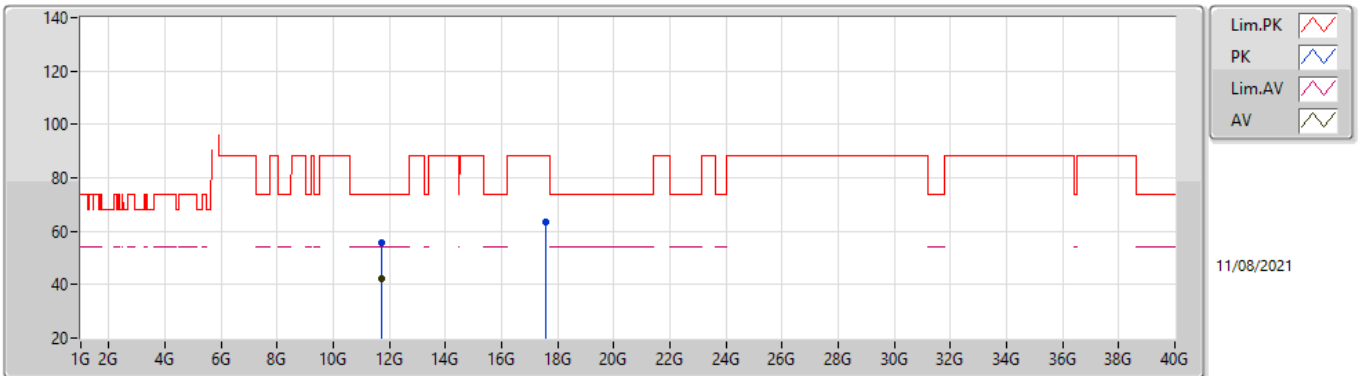


EUT_Z_2TX
Setting 29
01-A-B-2-10

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	5.617G	58.75	68.20	-9.45	52.42	3	Horizontal	224	2.91	-	33.83	5.41	32.91	
PK	5.864G	116.98	Inf	-Inf	109.84	3	Horizontal	224	2.91	-	34.58	5.50	32.94	
AV	5.864G	104.72	Inf	-Inf	97.58	3	Horizontal	224	2.91	-	34.58	5.50	32.94	
PK	5.929G	65.84	88.20	-22.36	58.36	3	Horizontal	224	2.91	-	34.92	5.50	32.94	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

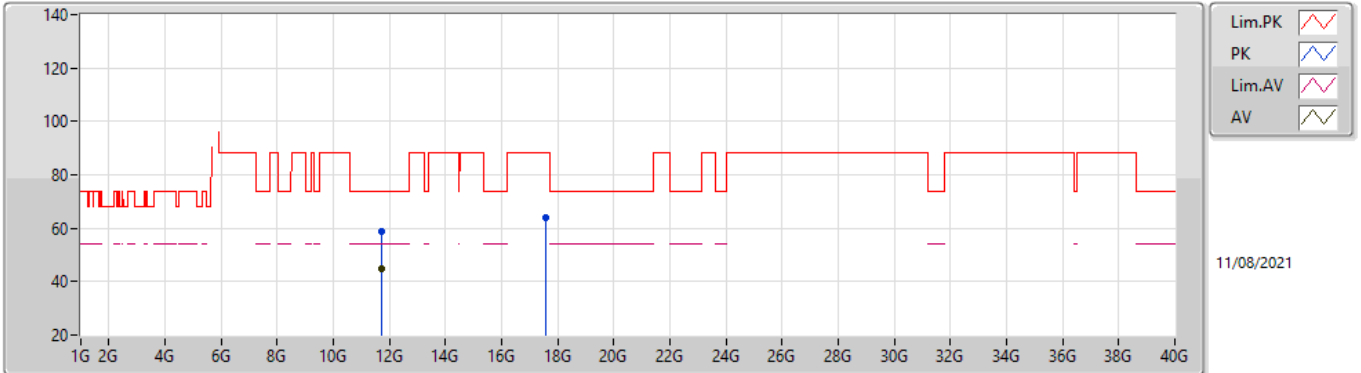


EUT_Z_2TX
Setting 29
01-A-B-2

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	11.73228G	55.45	74.00	-18.55	41.91	3	Vertical	32	1.80	-	38.47	7.91	32.84
AV	11.7411G	42.19	54.00	-11.81	28.66	3	Vertical	32	1.80	-	38.46	7.91	32.84
PK	17.58714G	63.56	88.20	-24.64	43.23	3	Vertical	55	2.88	-	42.30	9.86	31.83

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

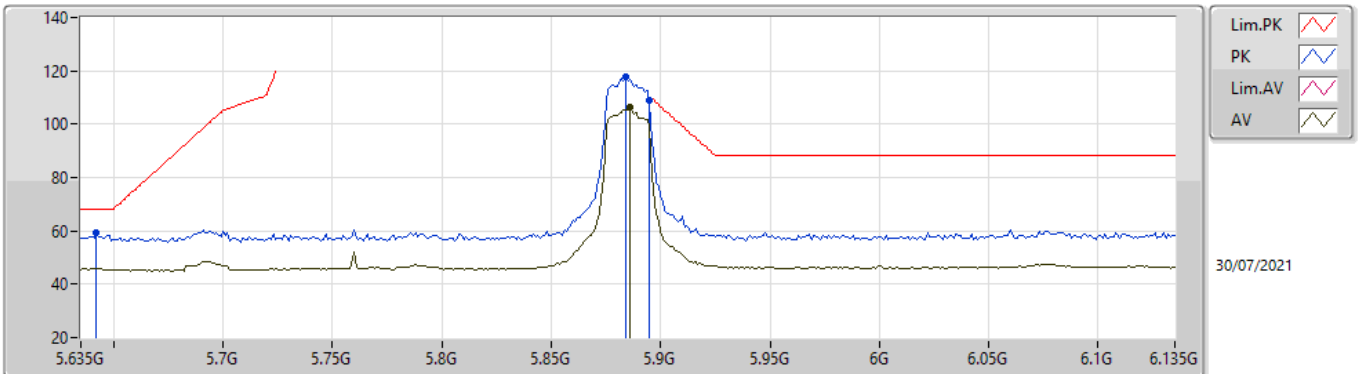


EUT_Z_2TX
Setting 29
01-A-B-2

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	11.731G	59.03	74.00	-14.97	45.49	3	Horizontal	132	2.14	-	38.47	7.91	32.84
AV	11.732G	44.75	54.00	-9.25	31.21	3	Horizontal	132	2.14	-	38.47	7.91	32.84
PK	17.58342G	63.92	88.20	-24.28	43.60	3	Horizontal	58	1.17	-	42.30	9.85	31.83

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

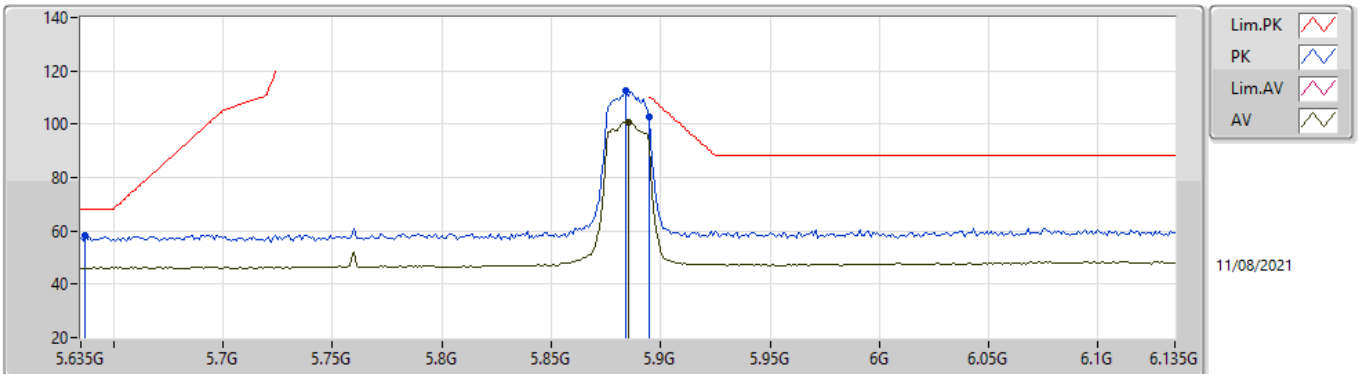


EUT_Z_2TX
Setting 25
02-A-K-3-10

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	5.642G	59.12	68.20	-9.08	52.28	3	Vertical	236	1.78	-	33.82	5.16	32.14	
PK	5.884G	117.86	Inf	-Inf	110.82	3	Vertical	236	1.78	-	33.94	5.25	32.15	
AV	5.886G	106.49	Inf	-Inf	99.44	3	Vertical	236	1.78	-	33.94	5.26	32.15	
PK	5.895G	109.15	110.20	-1.05	102.03	3	Vertical	236	1.78	-	33.98	5.29	32.15	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

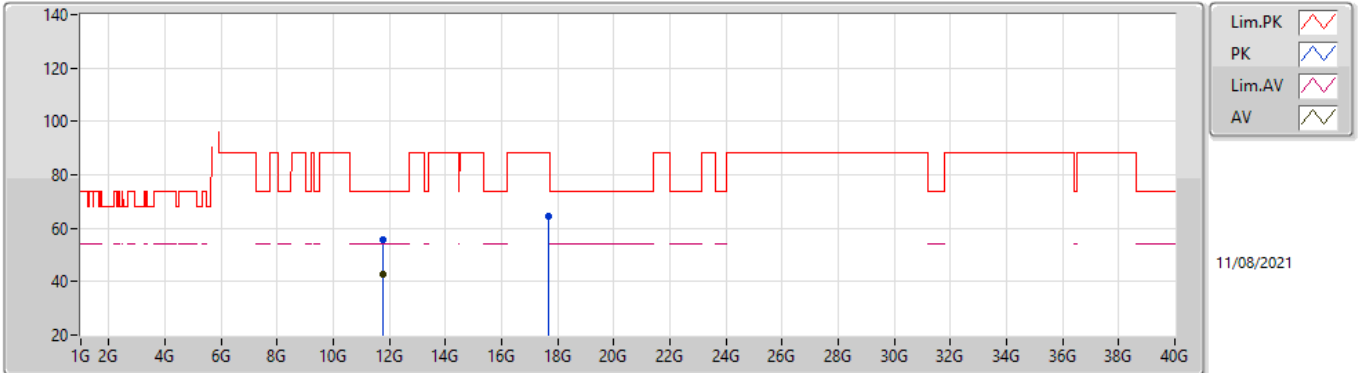


EUT_Z_2TX
Setting 25
01-A-B-2-10

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	5.637G	58.05	68.20	-10.15	51.67	3	Horizontal	234	2.86	-	33.87	5.42	32.91	
PK	5.884G	112.74	Inf	-Inf	105.48	3	Horizontal	234	2.86	-	34.70	5.50	32.94	
AV	5.885G	100.74	Inf	-Inf	93.47	3	Horizontal	234	2.86	-	34.71	5.50	32.94	
PK	5.895G	102.70	110.20	-7.50	95.37	3	Horizontal	234	2.86	-	34.77	5.50	32.94	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

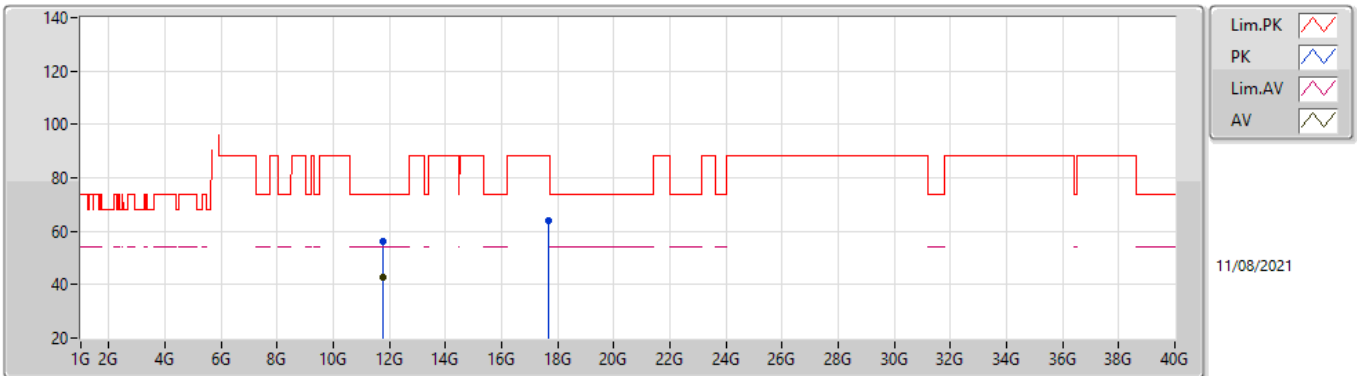


EUT_Z2TX
Setting 25
01-A-B-2

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	11.77048G	55.80	74.00	-18.20	42.30	3	Vertical	99	2.85	-	38.43	7.92	32.85
AV	11.76736G	42.79	54.00	-11.21	29.29	3	Vertical	99	2.85	-	38.43	7.92	32.85
PK	17.65098G	64.59	88.20	-23.61	44.26	3	Vertical	81	2.81	-	42.25	9.88	31.80

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

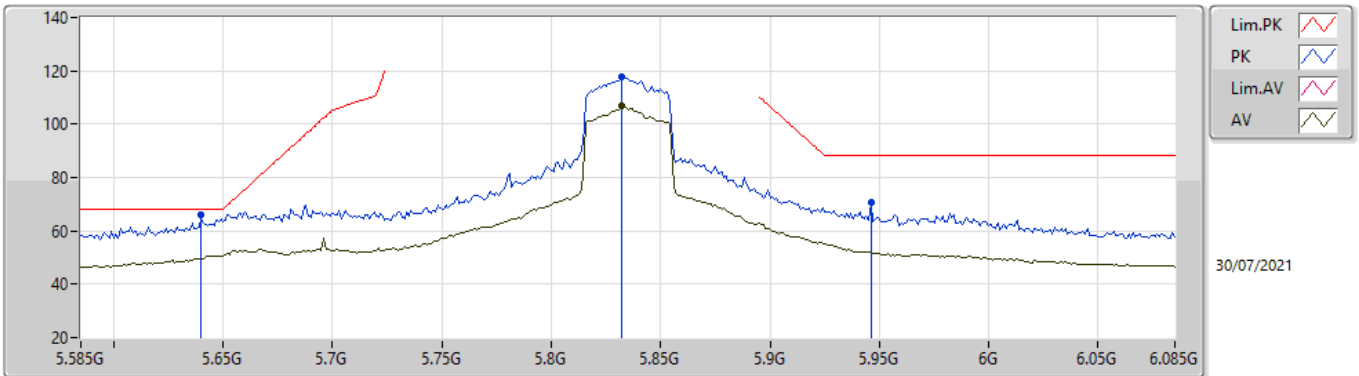


EUT_Z_2TX
Setting 25
01-A-B-2

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	11.77492G	56.44	74.00	-17.56	42.94	3	Horizontal	124	1.64	-	38.43	7.92	32.85
AV	11.7709G	42.86	54.00	-11.14	29.36	3	Horizontal	124	1.64	-	38.43	7.92	32.85
PK	17.66736G	63.93	88.20	-24.27	43.61	3	Horizontal	15	2.52	-	42.23	9.88	31.79

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

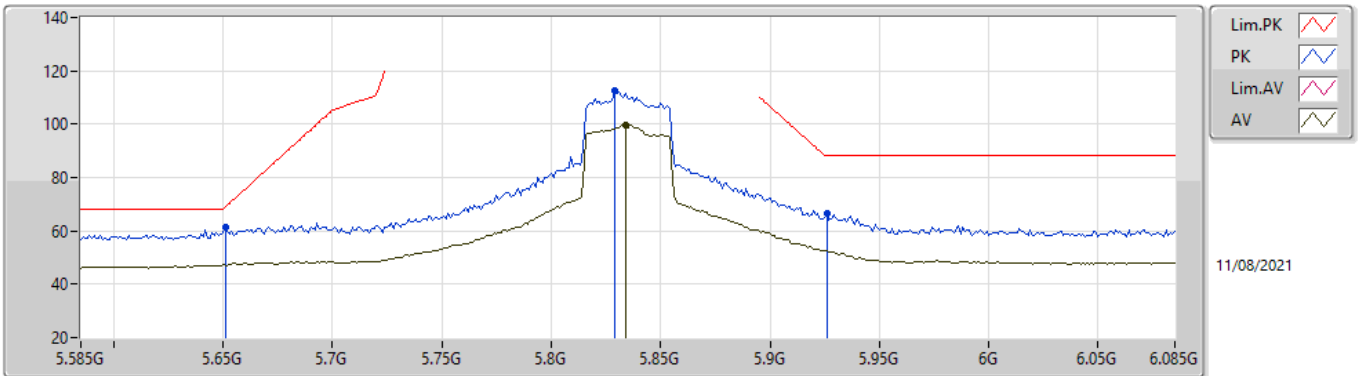


EUT_Z_2TX
Setting 28
02-A-K-3-10

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	65.81	68.20	-2.39	58.97	3	Vertical	237.4	1.46	-	33.82	5.16	32.14
PK	5.832G	117.81	Inf	-Inf	111.10	3	Vertical	237.4	1.46	-	33.76	5.10	32.15
AV	5.832G	106.90	Inf	-Inf	100.19	3	Vertical	237.4	1.46	-	33.76	5.10	32.15
PK	5.946G	70.81	88.20	-17.39	63.44	3	Vertical	237.4	1.46	-	34.09	5.44	32.16

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

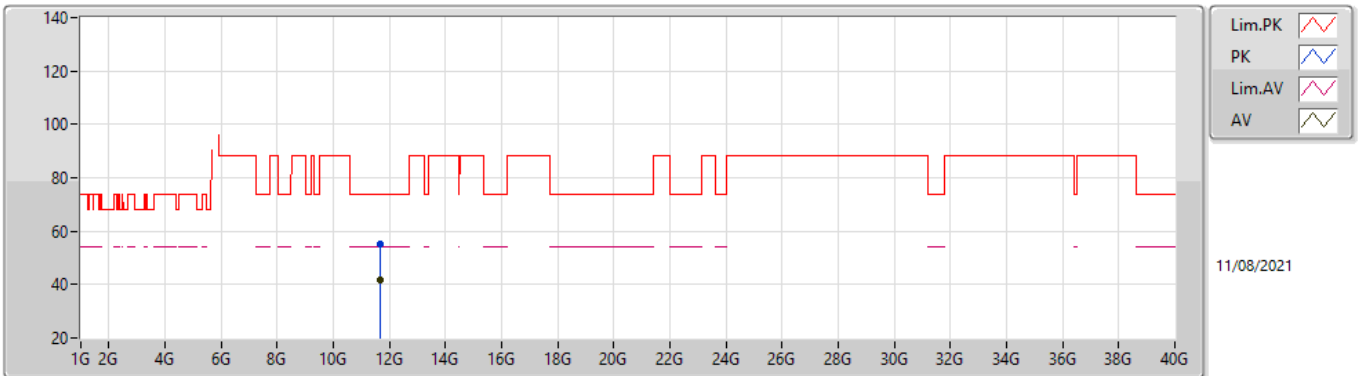


EUT_Z_2TX
Setting 28
01-A-B-2-10

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	5.651G	61.56	68.94	-7.38	55.15	3	Horizontal	226	3.00	-	33.90	5.43	32.92	
PK	5.829G	112.57	Inf	-Inf	105.58	3	Horizontal	226	3.00	-	34.42	5.50	32.93	
AV	5.834G	99.91	Inf	-Inf	92.90	3	Horizontal	226	3.00	-	34.44	5.50	32.93	
PK	5.926G	66.34	88.20	-21.86	58.88	3	Horizontal	226	3.00	-	34.90	5.50	32.94	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

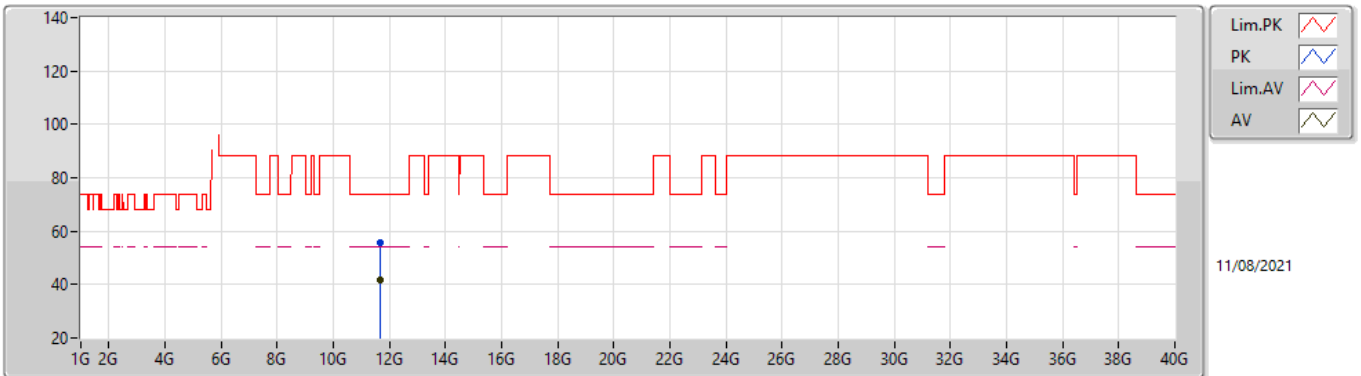


EUT_Z_2TX
Setting 28
01-A-B-2

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	11.67684G	55.10	74.00	-18.90	41.56	3	Vertical	87	1.99	-	38.48	7.89	32.83	
AV	11.6792G	41.93	54.00	-12.07	28.40	3	Vertical	87	1.99	-	38.48	7.89	32.84	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

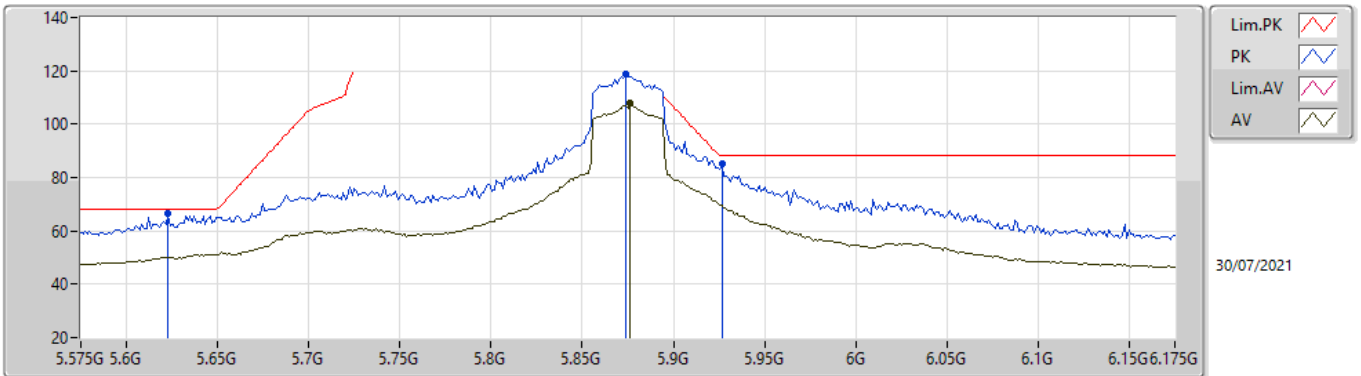


EUT_Z_2TX
Setting 28
01-A-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.65638G	55.55	74.00	-18.45	42.04	3	Horizontal	264	2.75	-	38.46	7.88	32.83
AV	11.661G	41.83	54.00	-12.17	28.32	3	Horizontal	264	2.75	-	38.46	7.88	32.83

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

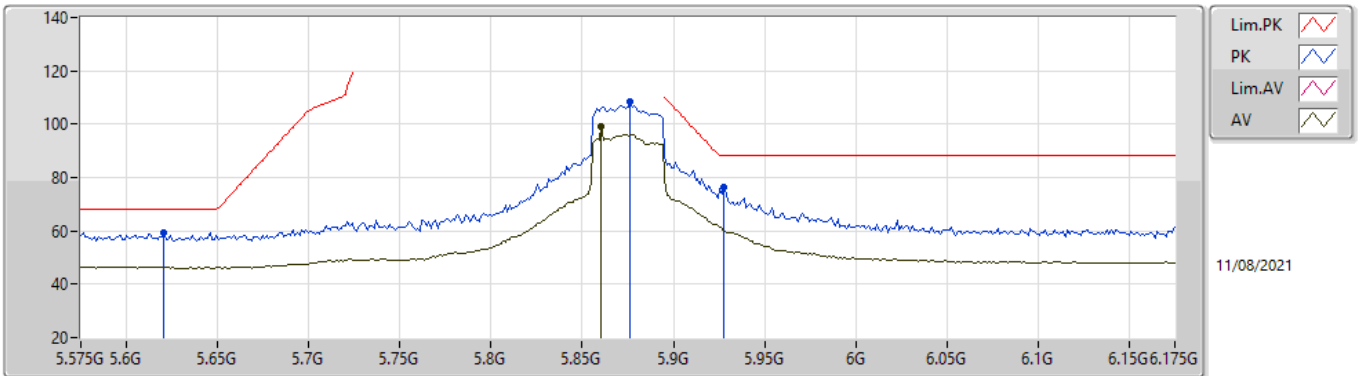


EUT_Z_2TX
Setting 29
02-A-K-3-10

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	5.623G	66.48	68.20	-1.72	59.59	3	Vertical	62	1.35	-	33.85	5.18	32.14	
PK	5.8738G	118.68	Inf	-Inf	111.71	3	Vertical	62	1.35	-	33.90	5.22	32.15	
AV	5.8762G	107.76	Inf	-Inf	100.78	3	Vertical	62	1.35	-	33.90	5.23	32.15	
PK	5.9266G	85.30	88.20	-2.90	78.03	3	Vertical	62	1.35	-	34.05	5.38	32.16	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

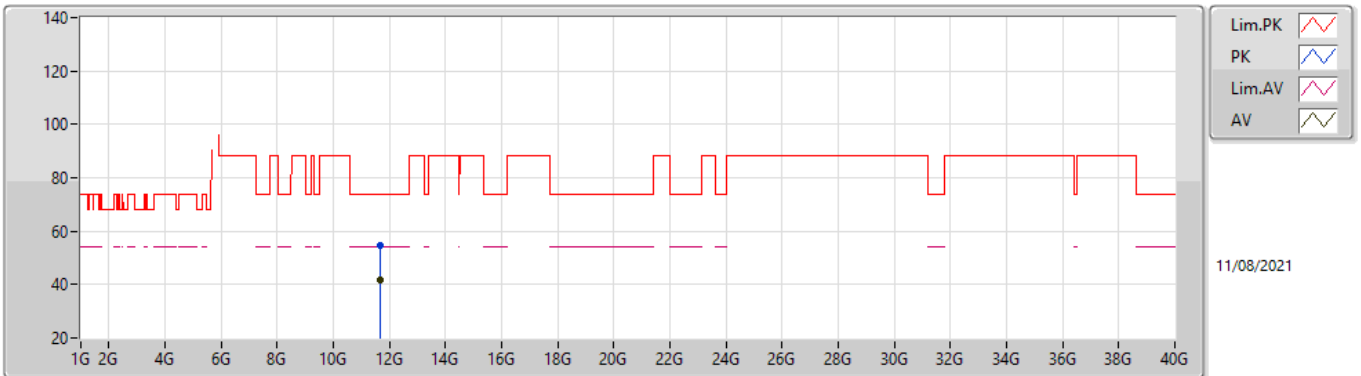


EUT_Z_2TX
Setting 29
01-A-B-2-10

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	5.6206G	59.34	68.20	-8.86	53.00	3	Horizontal	222	1.80	-	33.84	5.41	32.91	
PK	5.8762G	108.54	Inf	-Inf	101.32	3	Horizontal	222	1.80	-	34.66	5.50	32.94	
AV	5.8606G	99.26	Inf	-Inf	92.14	3	Horizontal	222	1.80	-	34.56	5.50	32.94	
PK	5.9278G	76.30	88.20	-11.90	68.83	3	Horizontal	222	1.80	-	34.91	5.50	32.94	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

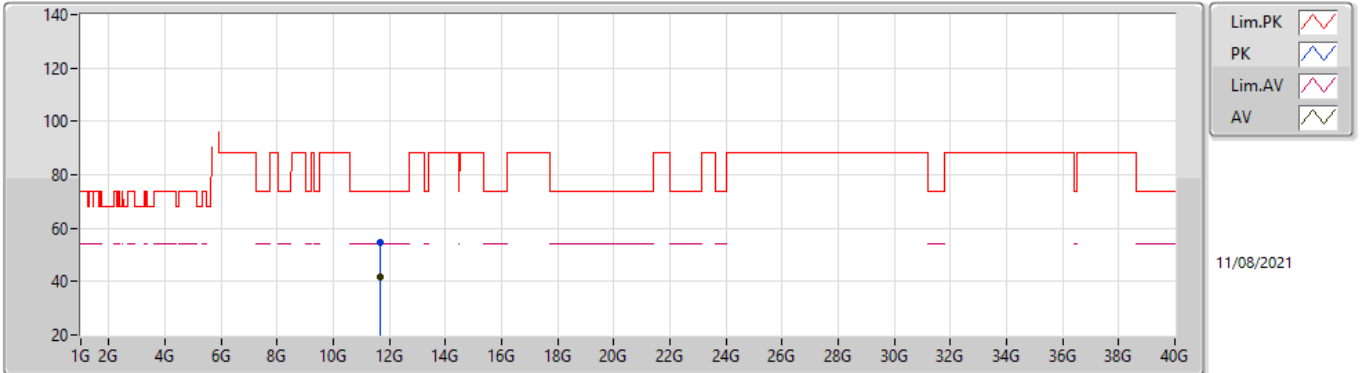


EUT_Z_2TX
Setting 29
01-A-B-2

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	11.67066G	54.59	74.00	-19.41	41.07	3	Vertical	14	1.32	-	38.47	7.88	32.83
AV	11.66962G	41.50	54.00	-12.50	27.98	3	Vertical	14	1.32	-	38.47	7.88	32.83

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

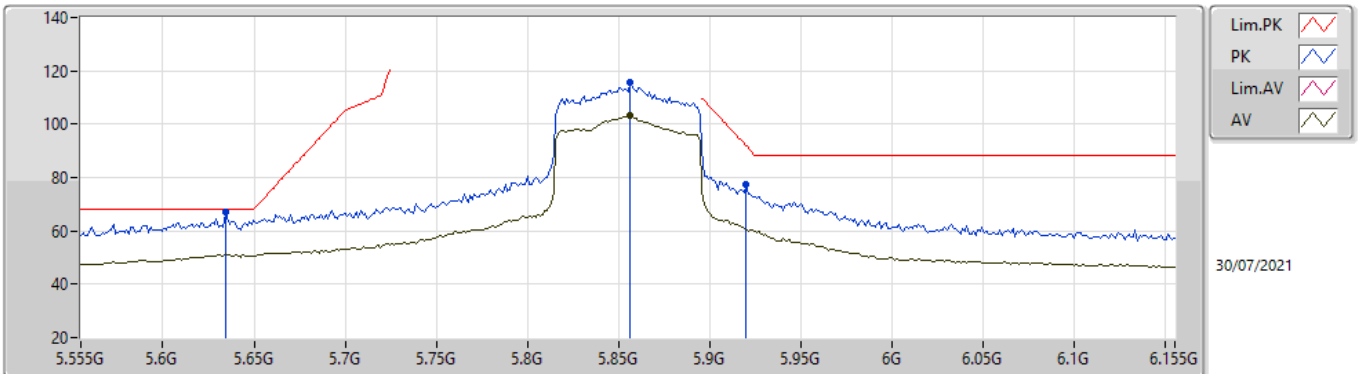


EUT_Z_2TX
Setting 29
01-A-B-2

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	11.66802G	54.54	74.00	-19.46	41.02	3	Horizontal	173	1.76	-	38.47	7.88	32.83
AV	11.66926G	41.67	54.00	-12.33	28.15	3	Horizontal	173	1.76	-	38.47	7.88	32.83

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

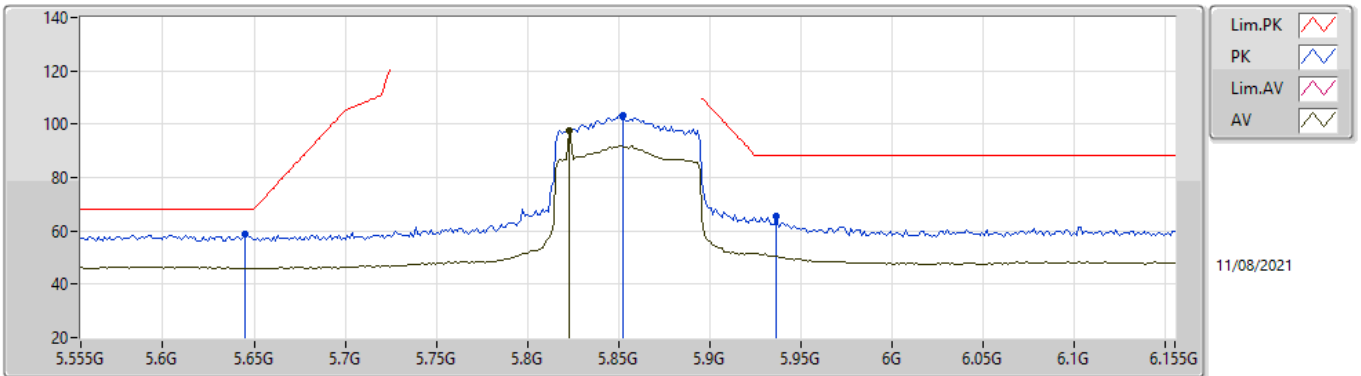


EUT_Z_2TX
Setting 27
02-A-K-3-10

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	5.6342G	67.18	68.20	-1.02	60.32	3	Vertical	67.5	1.68	-	33.83	5.17	32.14
PK	5.8562G	115.61	Inf	-Inf	108.77	3	Vertical	67.5	1.68	-	33.82	5.17	32.15
AV	5.8562G	103.47	Inf	-Inf	96.63	3	Vertical	67.5	1.68	-	33.82	5.17	32.15
PK	5.9198G	77.61	92.01	-14.40	70.37	3	Vertical	67.5	1.68	-	34.04	5.36	32.16

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

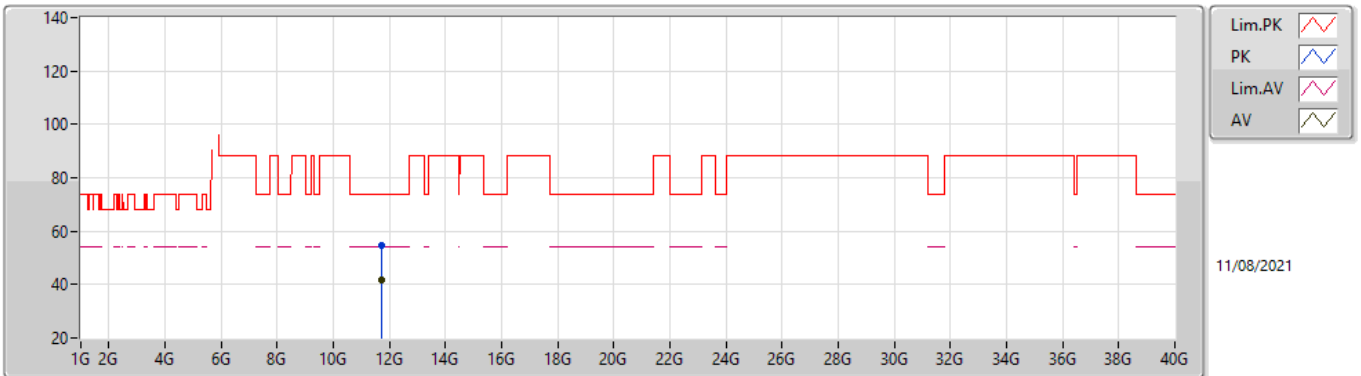


EUT_Z_2TX
Setting 27
01-A-B-2-10

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	5.645G	58.71	68.20	-9.49	52.31	3	Horizontal	206	2.49	-	33.89	5.42	32.91
PK	5.8526G	103.43	Inf	-Inf	96.35	3	Horizontal	206	2.49	-	34.52	5.50	32.94
AV	5.8226G	97.45	Inf	-Inf	90.49	3	Horizontal	206	2.49	-	34.39	5.50	32.93
PK	5.9366G	65.76	88.20	-22.44	58.25	3	Horizontal	206	2.49	-	34.95	5.50	32.94

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

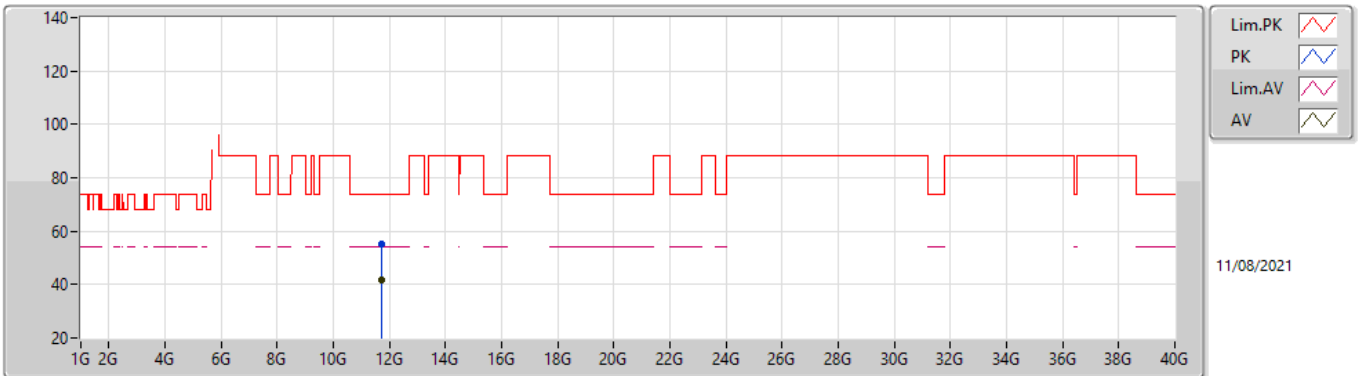


EUT_Z_2TX
Setting 27
01-A-B-2

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	11.70878G	54.79	74.00	-19.21	41.24	3	Vertical	299	1.55	-	38.49	7.90	32.84
AV	11.7091G	41.92	54.00	-12.08	28.37	3	Vertical	299	1.55	-	38.49	7.90	32.84

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

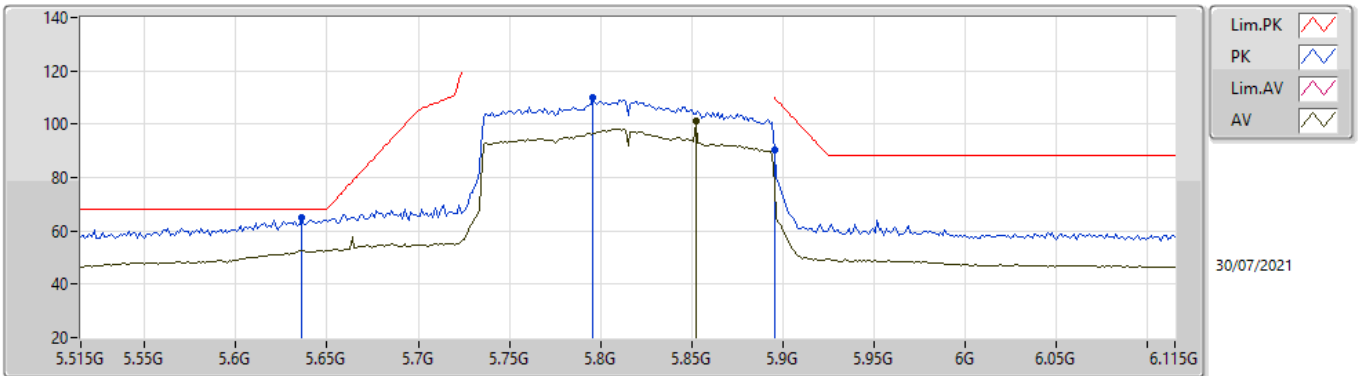


EUT_Z_2TX
Setting 27
01-A-B-2

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	11.7098G	55.15	74.00	-18.85	41.60	3	Horizontal	196	2.81	-	38.49	7.90	32.84	
AV	11.7091G	41.77	54.00	-12.23	28.22	3	Horizontal	196	2.81	-	38.49	7.90	32.84	

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

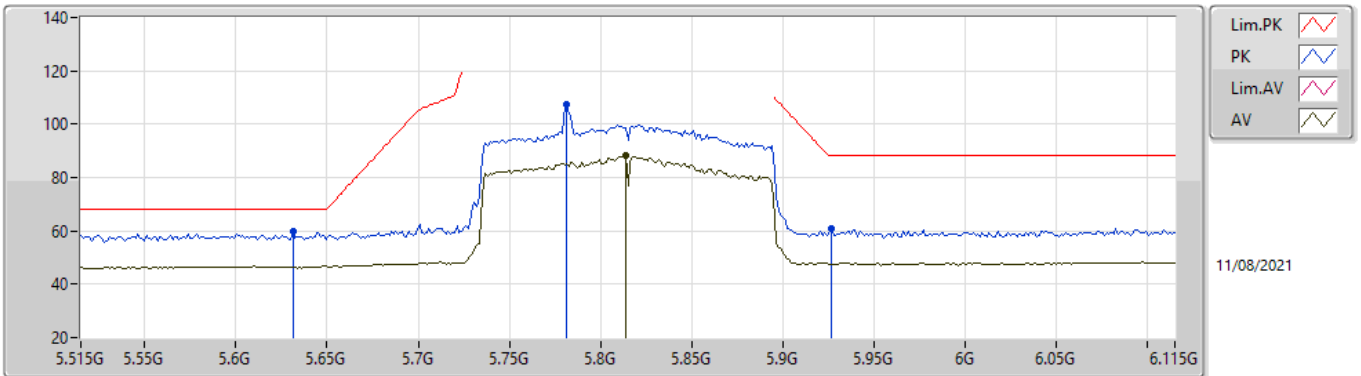


EUT_Z_2TX
Setting 24
02-A-K-3-10

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	5.6362G	65.02	68.20	-3.18	58.17	3	Vertical	67	1.80	-	33.83	5.16	32.14	
PK	5.7958G	110.19	Inf	-Inf	103.63	3	Vertical	67	1.80	-	33.71	5.00	32.15	
AV	5.8522G	101.25	Inf	-Inf	94.43	3	Vertical	67	1.80	-	33.81	5.16	32.15	
PK	5.8954G	90.35	109.91	-19.56	83.23	3	Vertical	67	1.80	-	33.98	5.29	32.15	

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

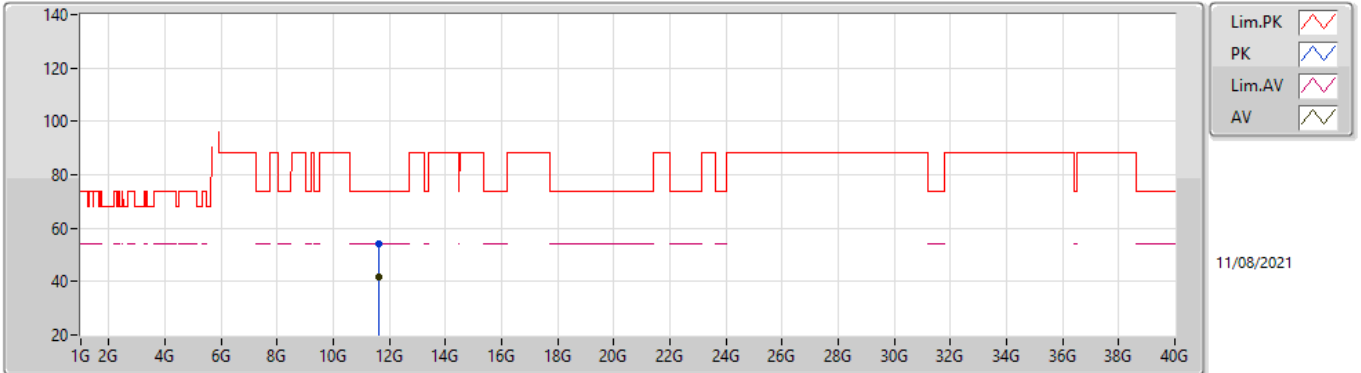


EUT_Z_2TX
Setting 24
01-A-B-2-10

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	5.6314G	59.98	68.20	-8.22	53.61	3	Horizontal	220.1	1.80	-	33.86	5.42	32.91	
PK	5.7814G	107.25	Inf	-Inf	100.46	3	Horizontal	220.1	1.80	-	34.23	5.49	32.93	
AV	5.8138G	88.04	Inf	-Inf	81.11	3	Horizontal	220.1	1.80	-	34.36	5.50	32.93	
PK	5.9266G	60.68	88.20	-27.52	53.21	3	Horizontal	220.1	1.80	-	34.91	5.50	32.94	

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

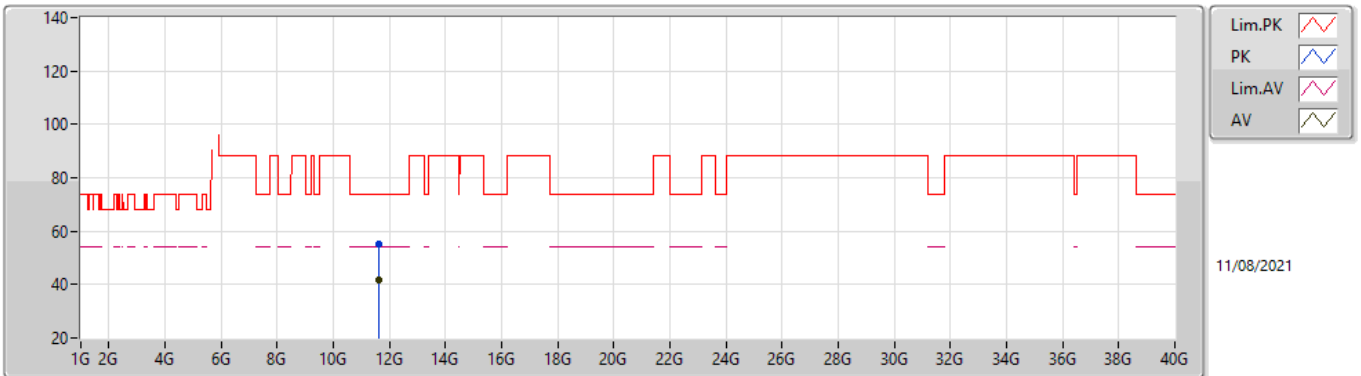


EUT_Z_2TX
Setting 24
01-A-B-2

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	11.63324G	54.36	74.00	-19.64	40.89	3	Vertical	312	2.86	-	38.43	7.87	32.83
AV	11.62998G	41.51	54.00	-12.49	28.04	3	Vertical	312	2.86	-	38.43	7.87	32.83

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX



EUT_Z_2TX
Setting 24
01-A-B-2

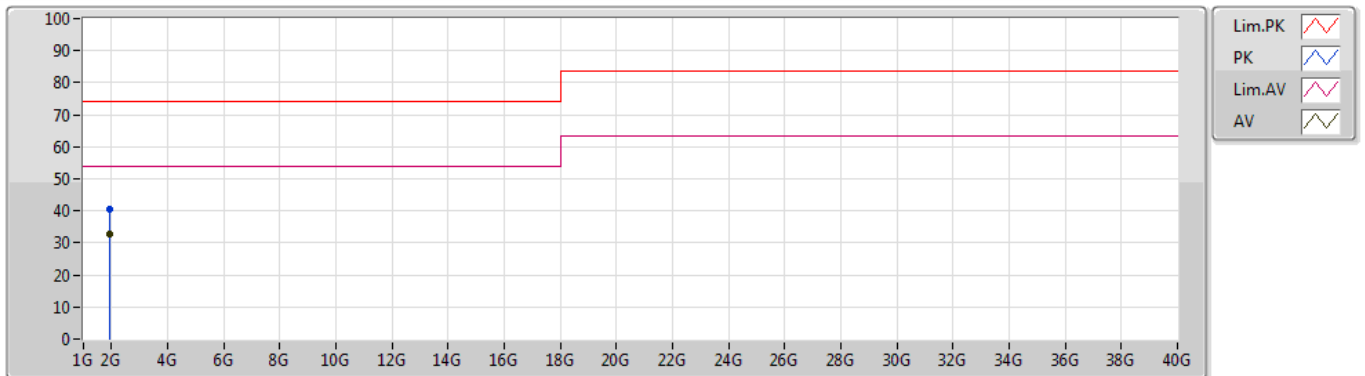
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.62836G	55.20	74.00	-18.80	41.73	3	Horizontal	306	2.44	-	38.43	7.87	32.83
AV	11.63256G	41.62	54.00	-12.38	28.15	3	Horizontal	306	2.44	-	38.43	7.87	32.83



Summary

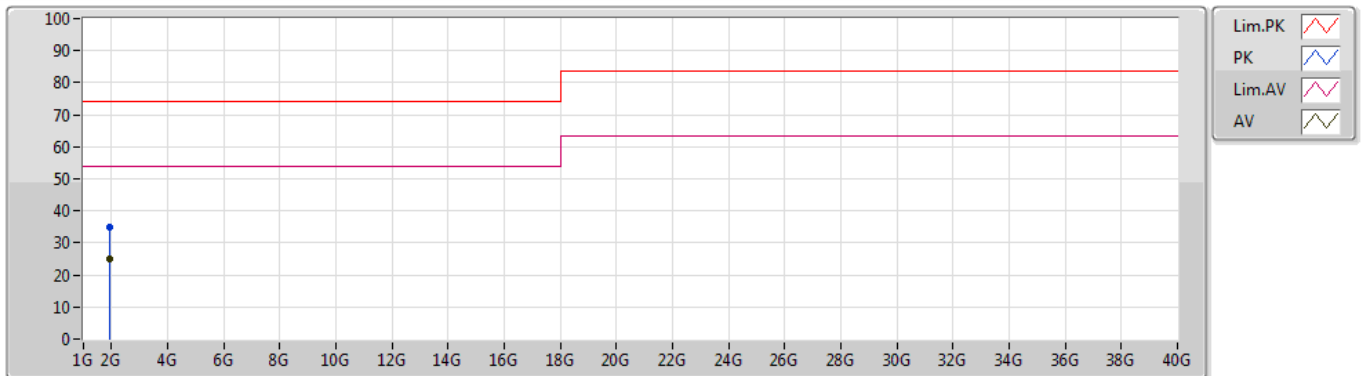
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.91999G	32.58	54.00	-21.42	Vertical

Mode 1



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	1.9202G	40.67	74.00	-33.33	-7.96	3	Vertical	199	1.78	-	48.63	25.52	3.72	37.20
AV	1.91999G	32.58	54.00	-21.42	-7.96	3	Vertical	199	1.78	"Worst"	40.54	25.52	3.72	37.20

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.9199G	34.99	74.00	-39.01	-7.96	3	Horizontal	208	1.00	-	42.95	25.52	3.72	37.20
AV	1.92003G	25.10	54.00	-28.90	-7.96	3	Horizontal	208	1.00	"Worst"	33.06	25.52	3.72	37.20