

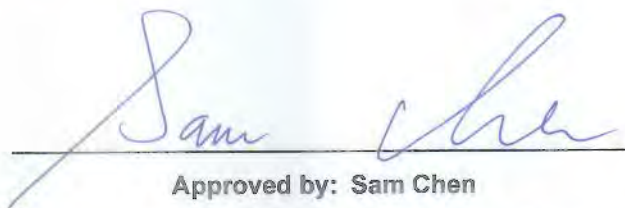


RADIO TEST REPORT

FCC ID : 2AHKM-CGNV5U
Equipment : D3.0 24x8 P6 WAV654 2+2 DBCC WiFi GW
Brand Name : Hitron
Model Name : CGNV5-U
Applicant : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Manufacturer : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 08, 2022, and testing was started from Mar. 09, 2022 and completed on Mar. 14, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Approved by: Sam Chen

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



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Photographs of EUT v01



History of this test report

Report No.	Version	Description	Issued Date
FR230412AB	01	Initial issue of report	Mar. 31, 2022



Summary of Test Result

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

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Jessie Wei



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

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

Note:

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



1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	1	-	LNYwave	ALX21P-051AA6-00	Dipole Antenna	I-PEX	Note1
2	2	-	LNYwave	ALX22P-051AA0-00	Dipole Antenna	I-PEX	
3	-	1	LNYwave	ALX21P-092AA3-00	PIFA Antenna	I-PEX	
4	-	2	LNYwave	ALX22P-092AA0-00	PIFA Antenna	I-PEX	

Note1:

Port		Gain (dBi)				
2.4GHz	5GHz	2400MHz	2450MHz	2500MHz	5150~5250MHz	5725~5850MHz
1	-	2.8	2.9	3	-	-
2	-	2.4	3	2.9	-	-
-	1	-	-	-	3.4	5
-	2	-	-	-	3.9	4.6

Note2: The above information was declared by manufacturer.

The EUT supports the antenna with TX and RX diversity functions.

For 2.4GHz function:

For IEEE 802.11 b mode (1TX/1RX)

Both Port 1 and Port 2 can be used as transmitting/receiving functions, but only one antenna can be used as transmitting/receiving functions at one time.

Both of them were tested and recorded in the report.

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

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

Both Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

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

Both Port 1 and Port 2 could transmit/receive simultaneously.



Note3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log \left[\frac{(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2}{N_{ANT}} \right] \Rightarrow 10$$

$$\log \left[\frac{(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2}{N_{ANT}} \right]$$

Where ;

G1 = Ant 1 Gain ; G2 = Ant 2 Gain ; G3 = Ant 3 Gain ; G4 = Ant 4 Gain ;

2.412 & 2.422 GHz DG = 5.61 dBi

2.437 GHz DG = 5.96 dBi

2.452 & 2.462 GHz DG = 5.96 dBi

5 GHz U-NII-1 DG = 6.66 dBi

5 GHz U-NII-3 DG = 7.81 dBi

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/>	Without beamforming	
Function	<input type="checkbox"/> Outdoor P2M	<input checked="" type="checkbox"/>	Indoor P2M	
	<input type="checkbox"/> Fixed P2P	<input type="checkbox"/>	Client	
	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/>	Point-to-point	
	<input type="checkbox"/> Indoor Client			
Test Software Version	Intel DUT V610.36			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	24~25.5 / 61~62	Mar. 09, 2022~ Mar. 14, 2022
Radiated below 1GHz	03CH05-CB	KJ Chang	22.4~23.2 / 61~63	Mar. 09, 2022~ Mar. 14, 2022
Radiated above 1GHz	03CH04-CB	Simmon Cheng	22.3~23.4 / 56~59	Mar. 09, 2022~ Mar. 12, 2022
AC Conduction	CO01-CB	Peter Wu	23~24 / 58~59	Mar. 14, 2022

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	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	-
5180MHz	24.5
5200MHz	28
5240MHz	28
5745MHz	28
5785MHz	28
5825MHz	28
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	24
5200MHz	27.5
5240MHz	28
5745MHz	28
5785MHz	28
5825MHz	28
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	20
5230MHz	25.5
5755MHz	27
5795MHz	28
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	19
5775MHz	22

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



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
2	EUT + Adapter 2

For operating mode 2 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	Normal Link
1	EUT in X axis + Adapter 1
2	EUT in Y axis + Adapter 1
3	EUT in Z axis + Adapter 1

Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.

4	EUT in Z axis + Adapter 2
---	---------------------------

For operating mode 4 is the worst case and it was record in this test report.

Operating Mode > 1GHz	
1	EUT in X axis

The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at X axis. So the measurement will follow this same test configuration.



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA230412 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	APD	WA-30P12FU	INPUT: 100-240V~50-60Hz, 0.9A Max. OUTPUT: 12V, 2.5A
Adapter 2	MOSO	MSA-C2500IS12.0-30I-US	INPUT: 100-240V~50/60Hz, 1.0A max. OUTPUT: 12V, 2.5A
Others			
RJ-45 cable*1: Non-shielded, 1.5m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	Phone	SAMPO	HT-B 907WL	N/A
C	CO (Terminal System)	Jinghong	CMTS JH-HE3416B	N/A
D	CO NB (Terminal System)	Lenovo	X280	N/A
E	Phone	SAMPO	HT-B 907WL	N/A
F	Flash disk3.0	Transcend	JetFlash-700	N/A
G	2.4G NB	DELL	E6430	N/A
H	5G NB	DELL	E6430	N/A
A	LAN NB	DELL	E6430	N/A

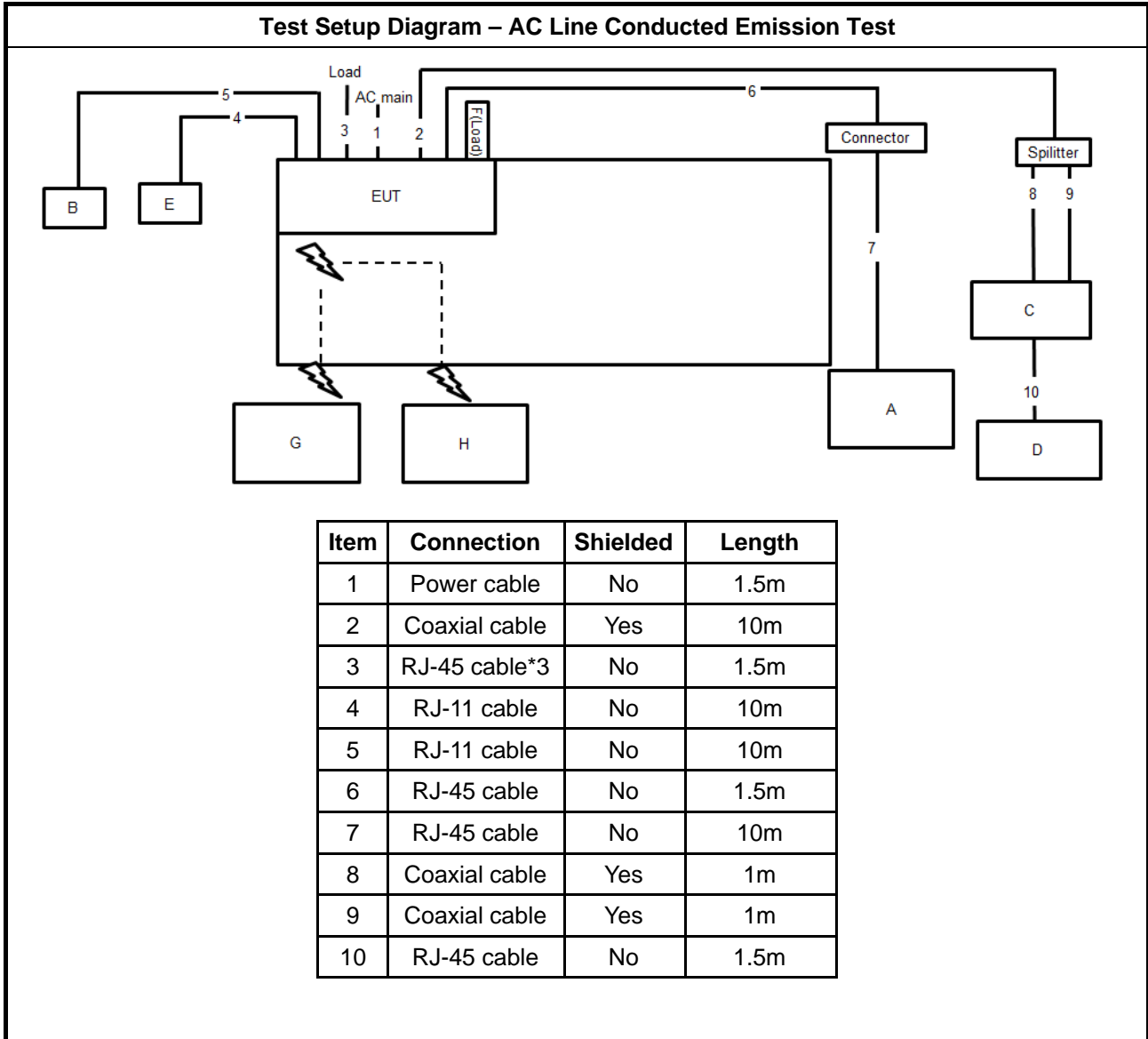
For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A
B	2.4G NB	DELL	E4300	N/A
C	5G NB	DELL	E4300	N/A
D	Phone	SAMPO	HT-B 907WL	N/A
E	CO (Terminal System)	Jinghong	CMTS JH-HE3416B	N/A
F	Phone	H-T-T	F-689	N/A
G	Flash disk3.0	Silicon Power	B06	N/A
H	CO NB (Terminal System)	Lenovo	X280	N/A

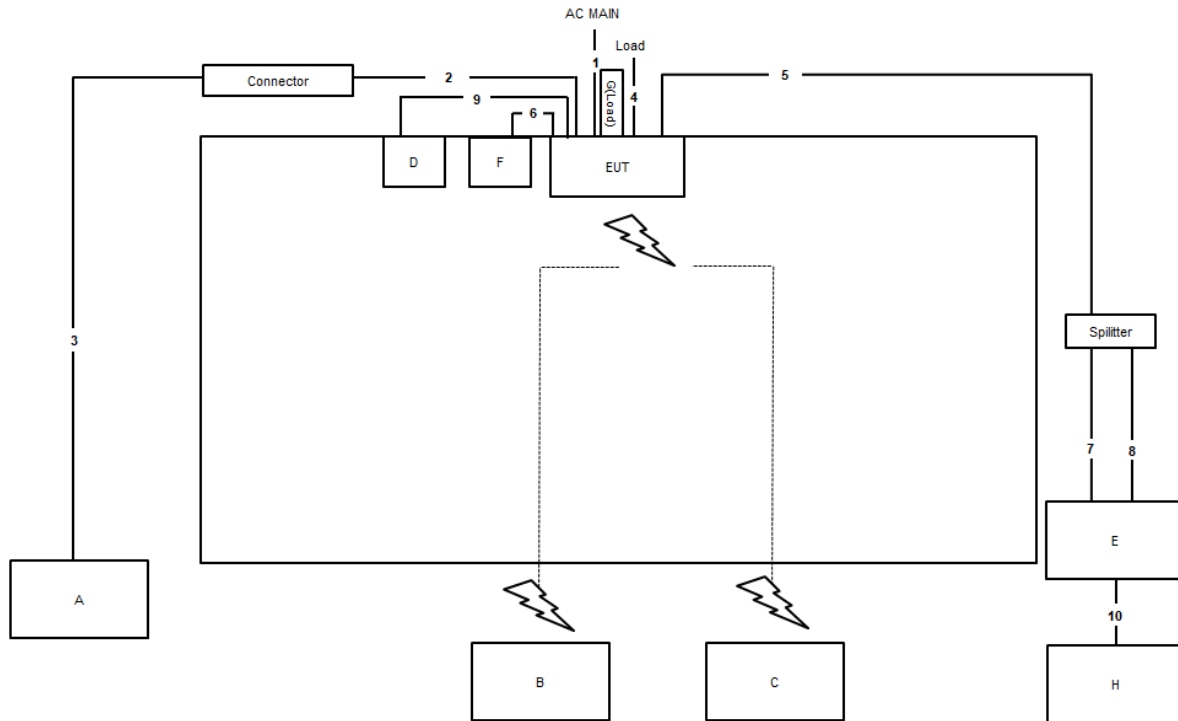
For Radiated (above 1GHz) and RF Conducted:

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

2.6 Test Setup Diagram

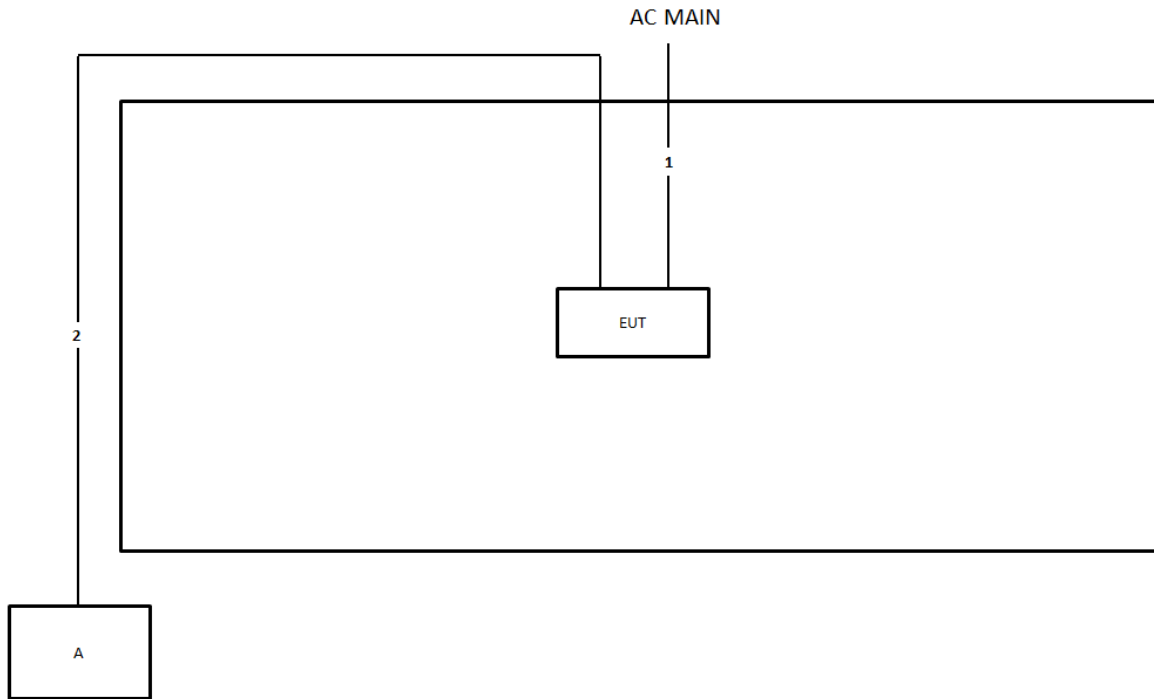


Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

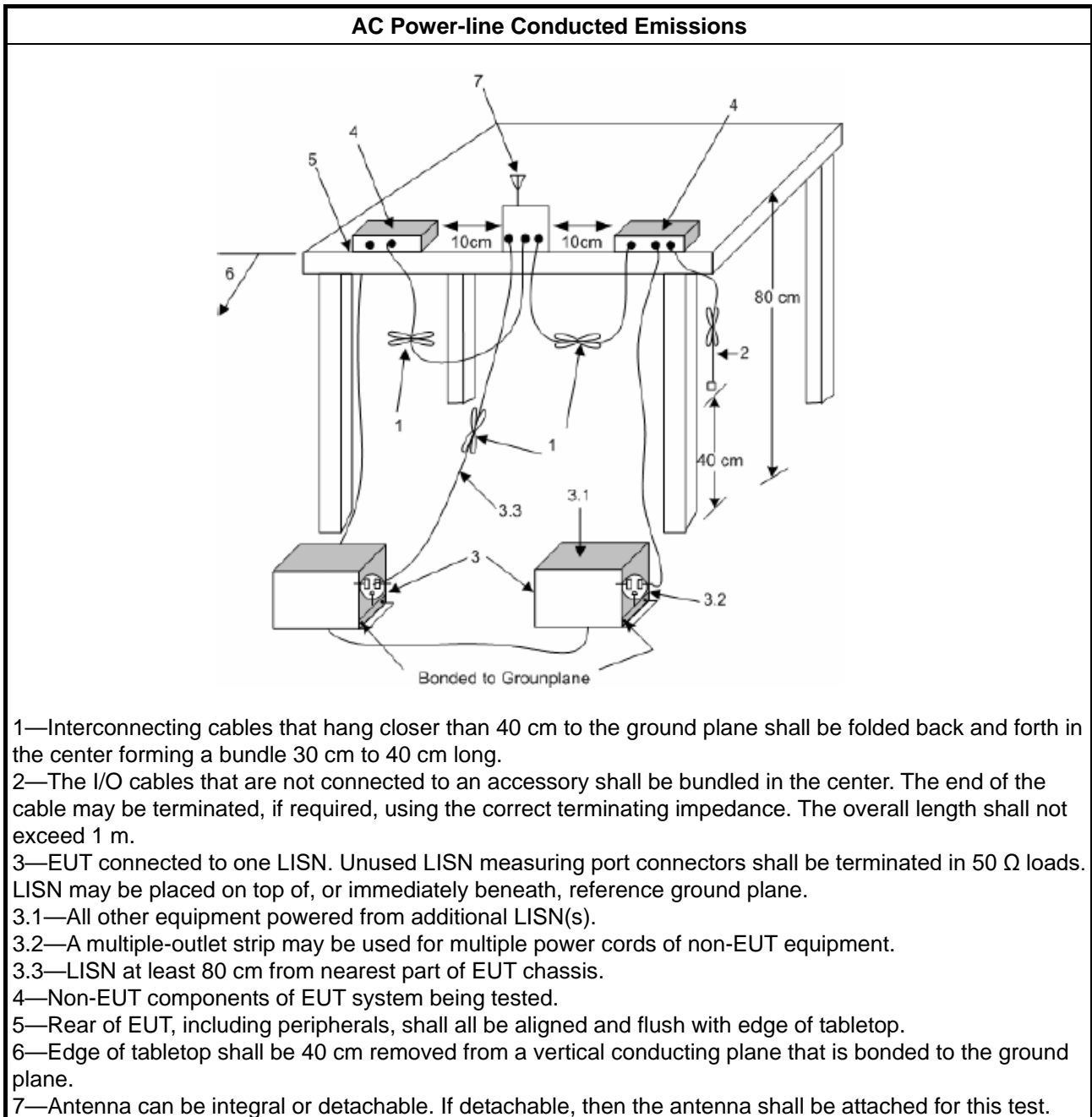
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
<input type="checkbox"/>	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices	
<input type="checkbox"/>	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.
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

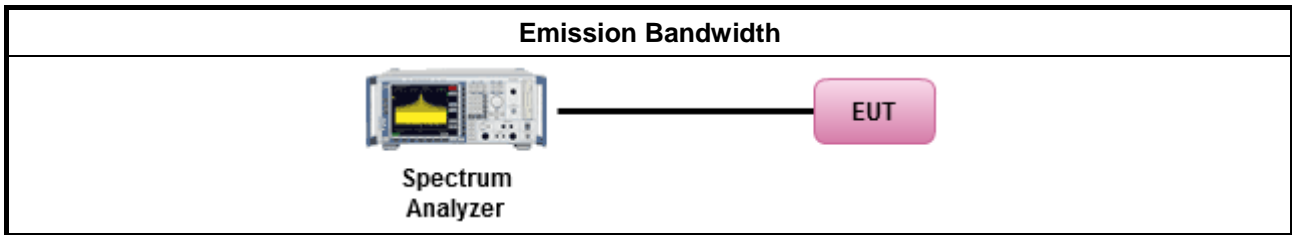
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> 		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ 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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> 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 $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> 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 $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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	
<input type="checkbox"/> For the 5.85-5.895 GHz band:	
	<ul style="list-style-type: none"> ▪ Indoor AP & subordinate device < 36 dBm ▪ Client device < 30 dBm
LE-LAN Devices	
<input type="checkbox"/> 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.	
<input type="checkbox"/> 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	
<input type="checkbox"/> 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	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the

lesser of 1 W.

P_{Out} = maximum conducted output power in dBm,
 G_{TX} = the maximum transmitting antenna directional gain in dBi.

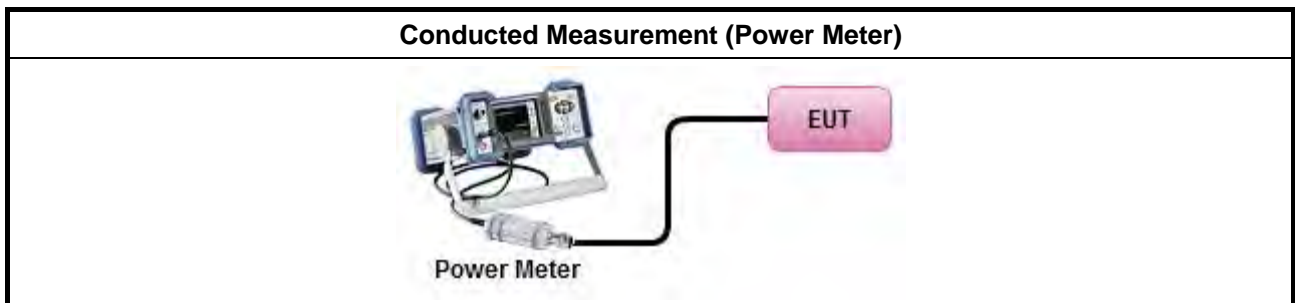
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> 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]) $EIRP_{total} = P_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ 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 $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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	
<input type="checkbox"/> For the 5.85-5.895 GHz band:	
	<ul style="list-style-type: none"> ▪ Indoor AP & subordinate device < 20dBm/MHz ▪ Client device < 14dBm/MHz
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	<ul style="list-style-type: none"> ▪ 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 $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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

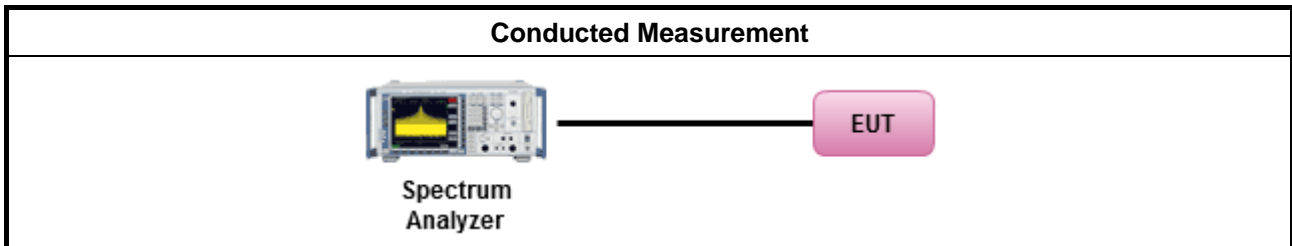
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> ▪ 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:
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below:
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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,
<input type="checkbox"/>	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.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm])

Test Method	
	$EIRP_{total} = PPSD_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	<ul style="list-style-type: none"> Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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



Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input checked="" type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 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.
<input type="checkbox"/> 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

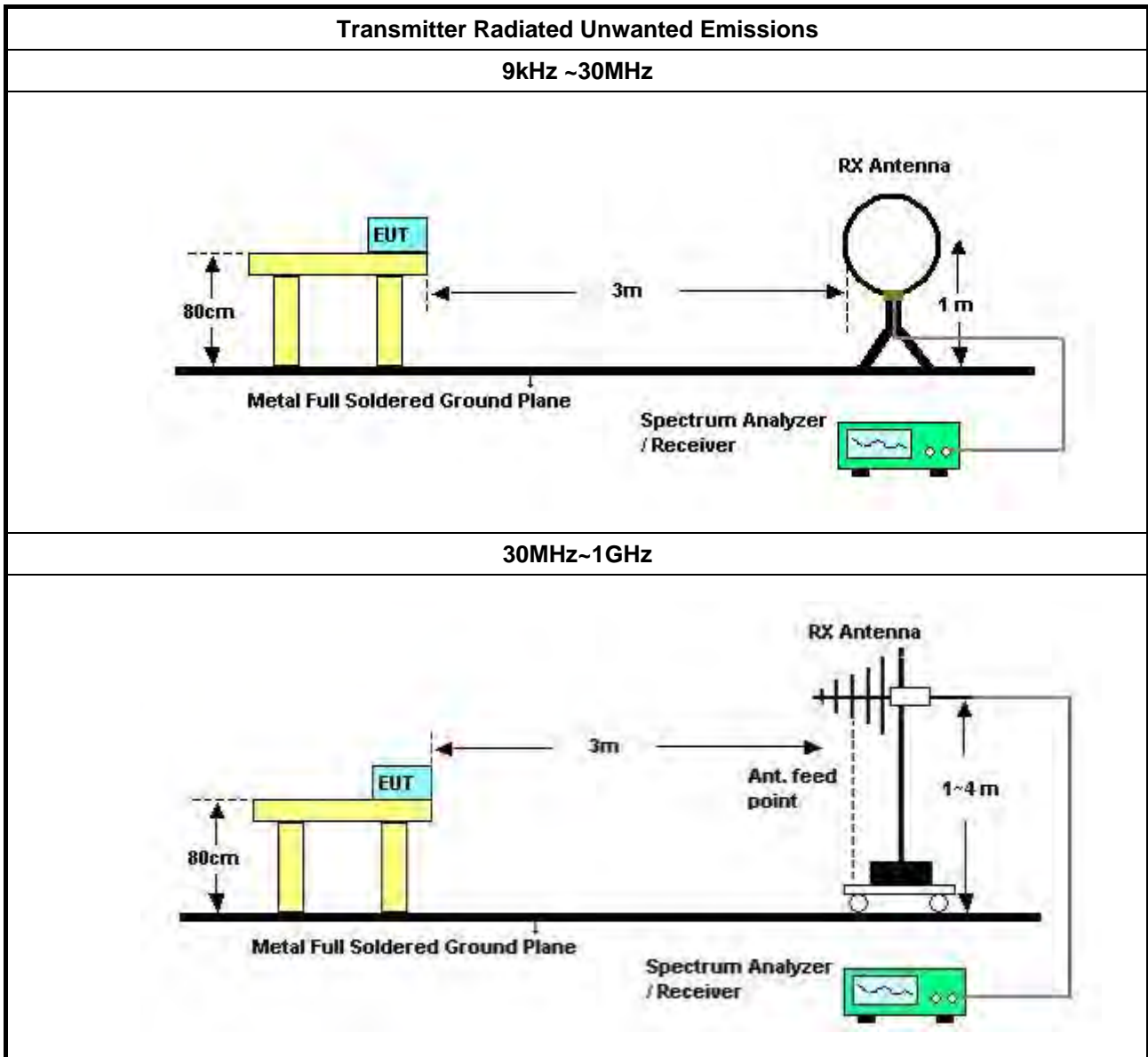
Refer a test equipment and calibration data table in this test report.

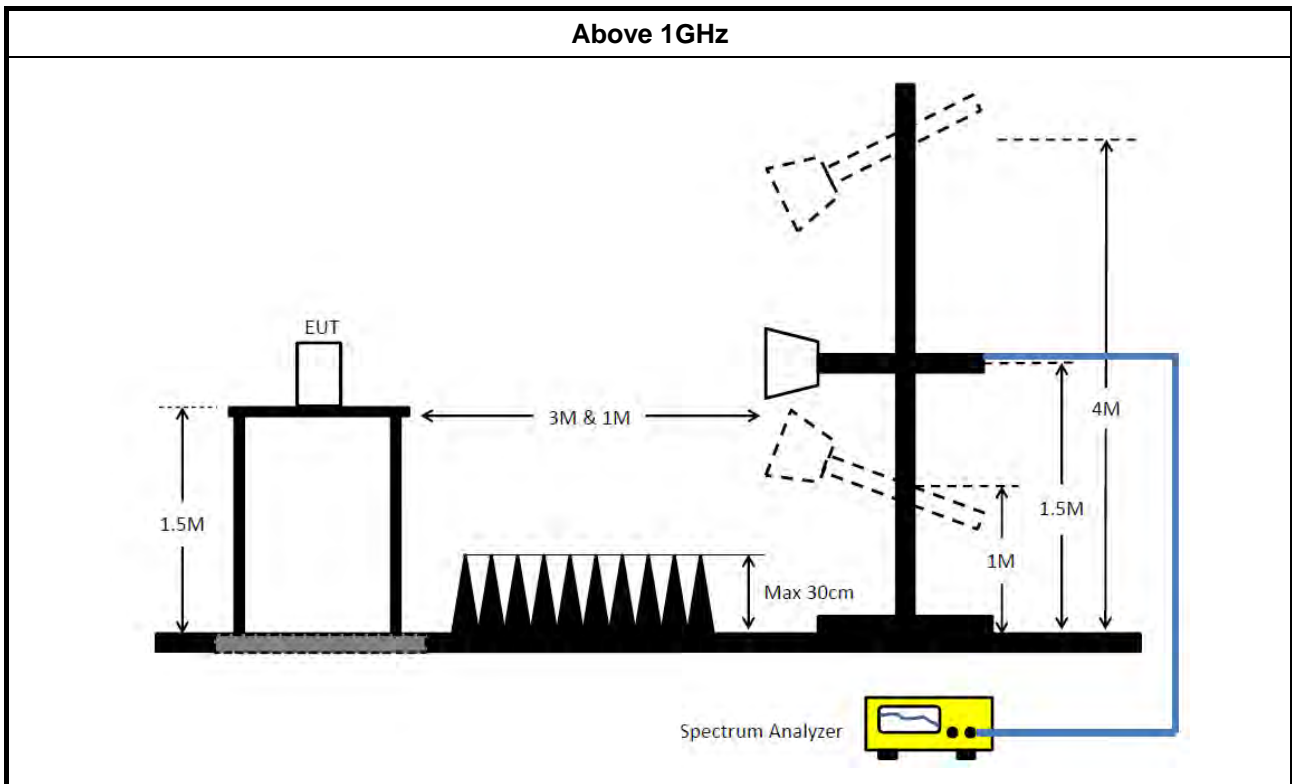


3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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). 	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> For radiated measurement. 	
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 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 (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS · Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 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)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

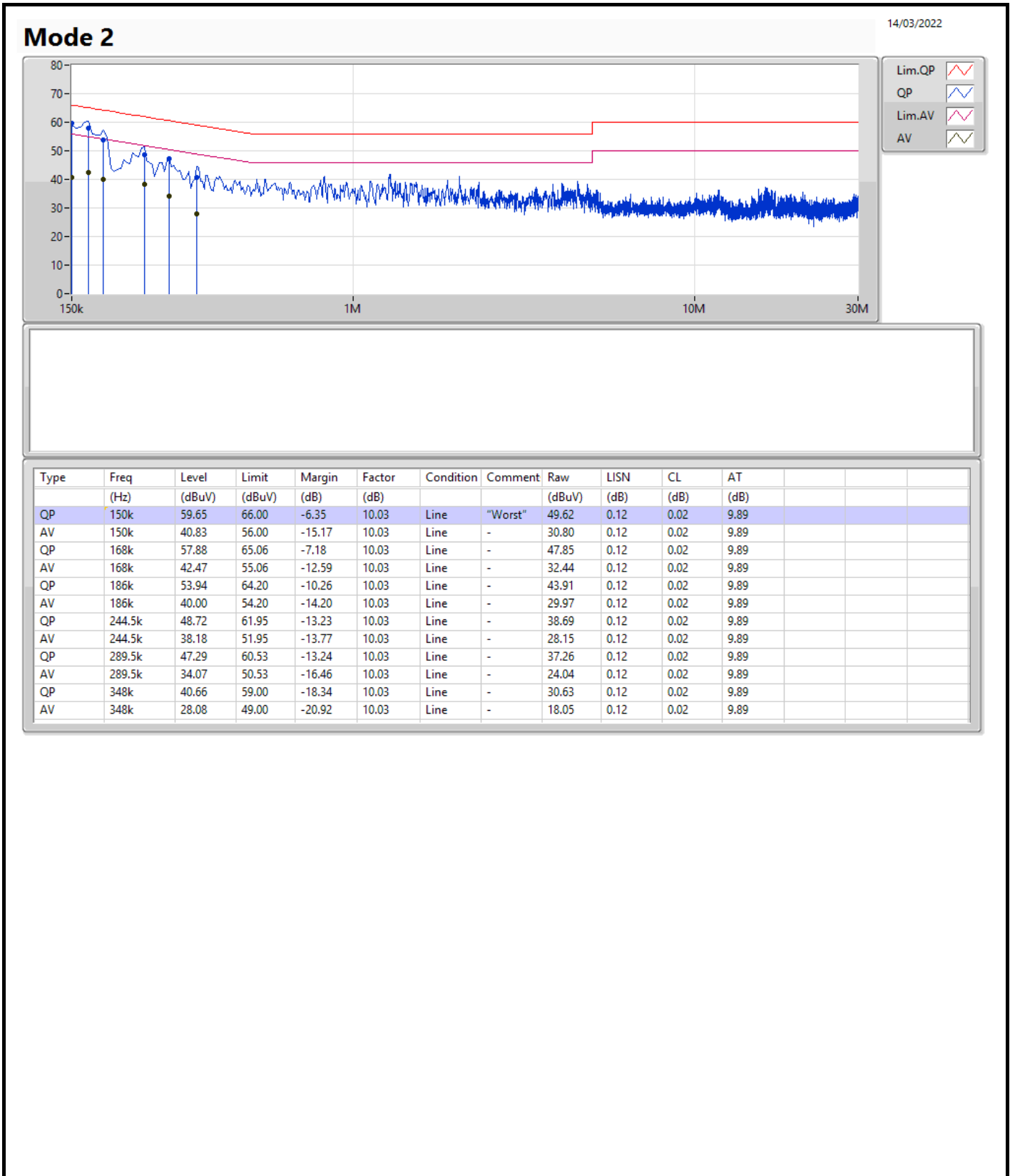
Note: Calibration Interval of instruments listed above is one year.

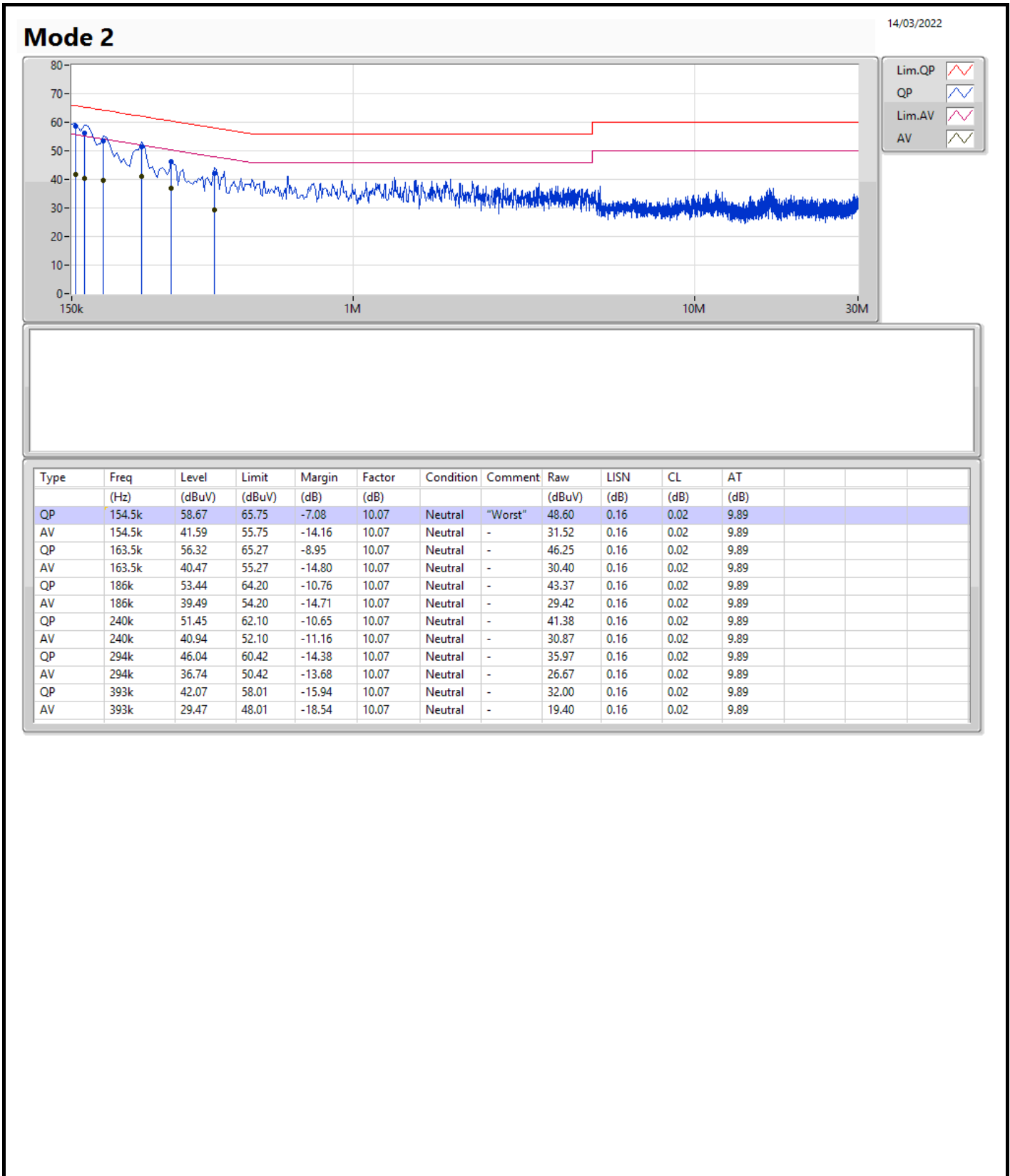
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	150k	59.65	66.00	-6.35	Line





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	34.38M	18.111M	18M1D1D	24.72M	16.852M
802.11ax HEW20_Nss1,(MCS0)_2TX	35.58M	20.78M	20M8D1D	22.98M	19.31M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.8M	38.921M	38M9D1D	42.84M	38.561M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.84M	77.361M	77M4D1D	81.84M	77.361M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.56M	18.951M	19MOD1D	16.47M	17.721M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.11M	22.249M	22M2D1D	19.05M	19.16M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.16M	39.4M	39M4D1D	38.1M	38.321M
802.11ax HEW80_Nss1,(MCS0)_2TX	78.12M	77.961M	78MOD1D	78.12M	77.841M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.72M	16.852M	27.33M	17.151M
5200MHz	Pass	Inf	33.93M	17.391M	34.38M	18.111M
5240MHz	Pass	Inf	32.37M	17.301M	34.2M	17.901M
5745MHz	Pass	500k	16.47M	17.721M	16.56M	17.721M
5785MHz	Pass	500k	16.5M	18.951M	16.56M	17.961M
5825MHz	Pass	500k	16.47M	18.441M	16.53M	17.841M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	23.19M	19.4M	22.98M	19.31M
5200MHz	Pass	Inf	30.69M	20.78M	35.58M	19.82M
5240MHz	Pass	Inf	31.86M	20.66M	34.5M	19.7M
5745MHz	Pass	500k	19.08M	21.169M	19.11M	19.82M
5785MHz	Pass	500k	19.08M	20.54M	19.05M	19.16M
5825MHz	Pass	500k	19.08M	22.249M	19.05M	19.52M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	43.14M	38.621M	42.84M	38.921M
5230MHz	Pass	Inf	43.8M	38.681M	43.08M	38.561M
5755MHz	Pass	500k	38.1M	38.321M	38.1M	38.861M
5795MHz	Pass	500k	38.16M	39.1M	38.1M	39.4M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.84M	77.361M	81.84M	77.361M
5775MHz	Pass	500k	78.12M	77.841M	78.12M	77.961M

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

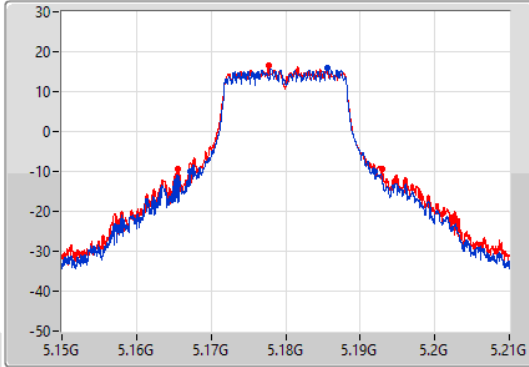
802.11a_Nss1,(6Mbps)_2TX

EBW

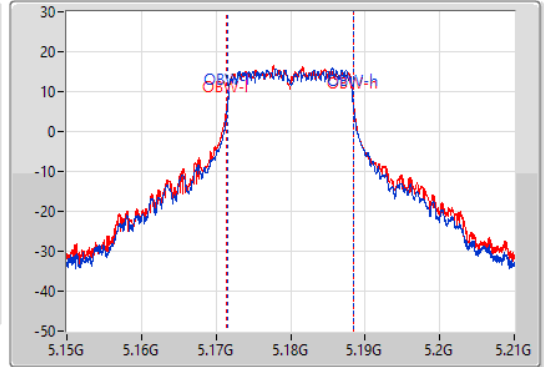
5180MHz

14/03/2022

CF: 5.18GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.18GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.72M	5.16716G	5.19188G	16.852M	5.171574G	5.188426G	Inf	1
27.33M	5.16554G	5.19287G	17.151M	5.171364G	5.188516G	Inf	2

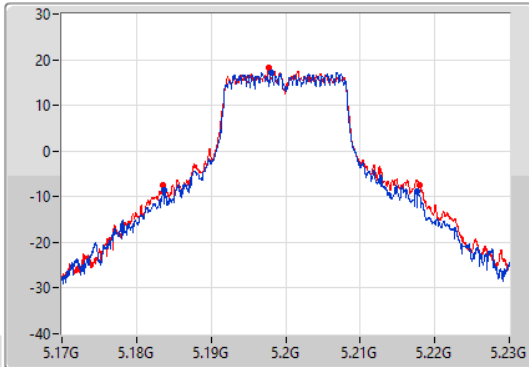
802.11a_Nss1,(6Mbps)_2TX

EBW

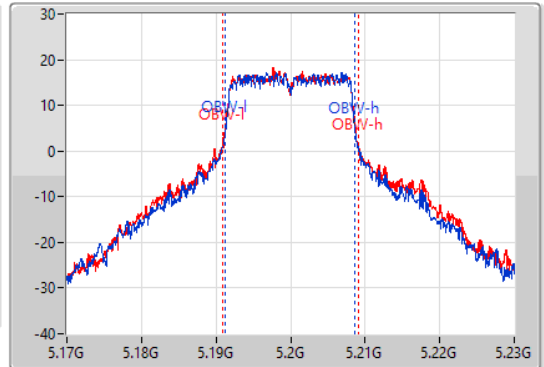
5200MHz

14/03/2022

CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



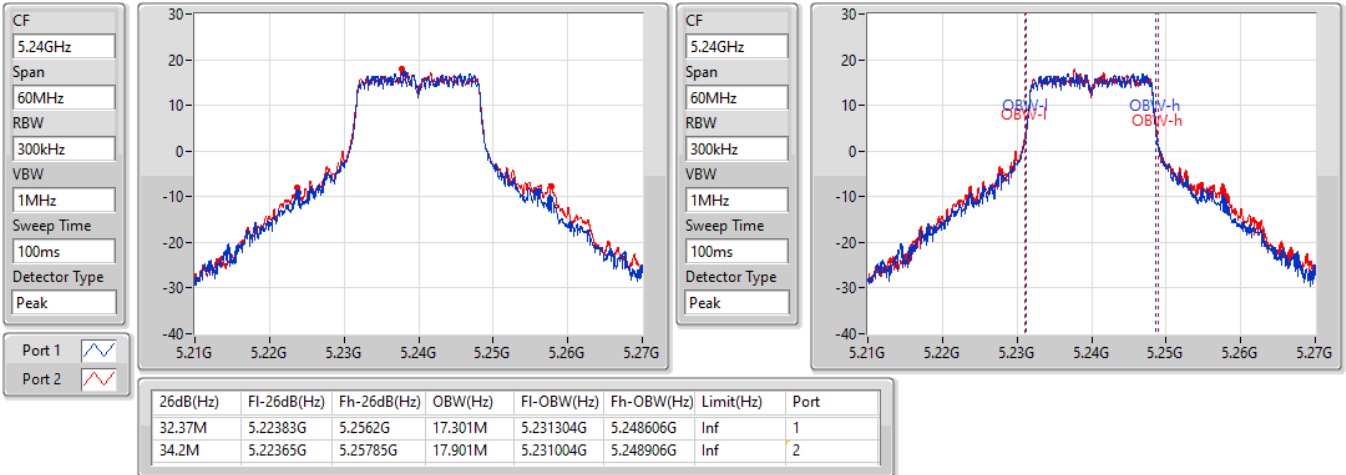
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.93M	5.18371G	5.21764G	17.391M	5.191274G	5.208666G	Inf	1
34.38M	5.18359G	5.21797G	18.111M	5.190945G	5.209055G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

14/03/2022

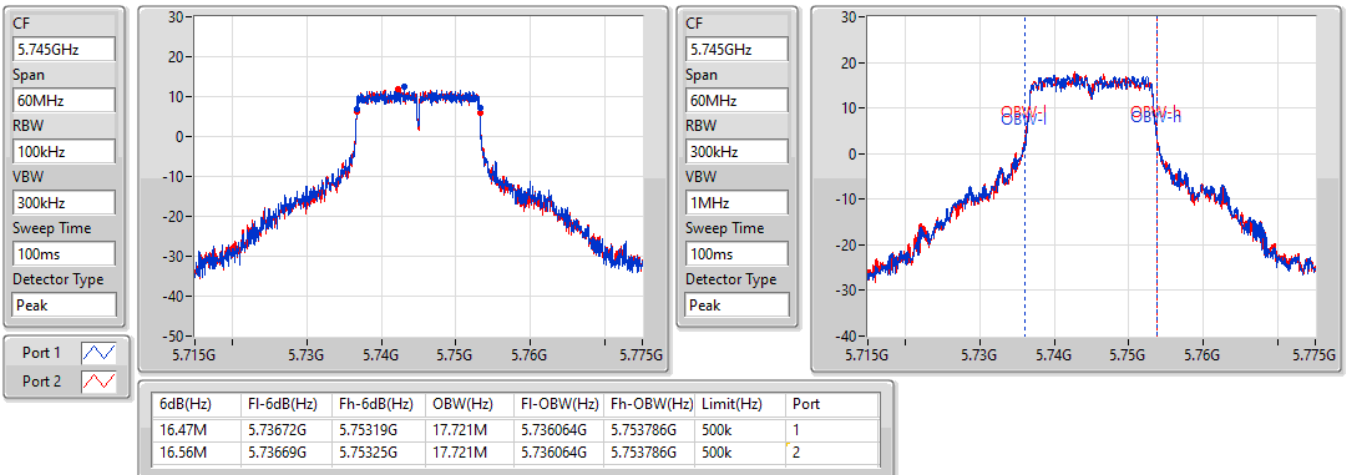


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

14/03/2022



802.11a_Nss1,(6Mbps)_2TX

EBW

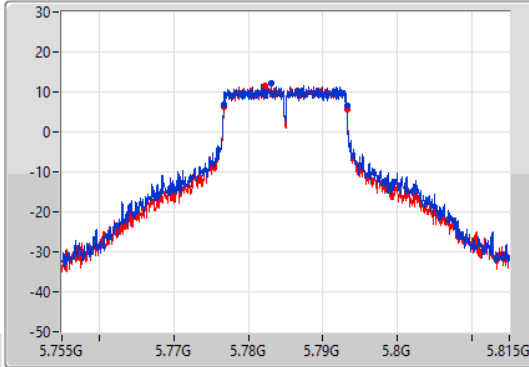
5785MHz

14/03/2022

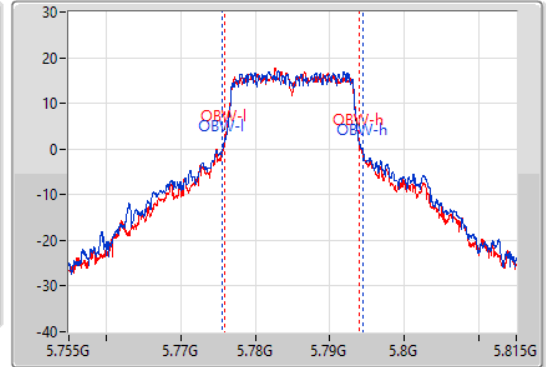
CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak

Port 1

Port 2



CF
5.785GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.5M	5.77672G	5.79322G	18.951M	5.775555G	5.794505G	500k	1
16.56M	5.77669G	5.79325G	17.961M	5.775945G	5.793906G	500k	2

802.11a_Nss1,(6Mbps)_2TX

EBW

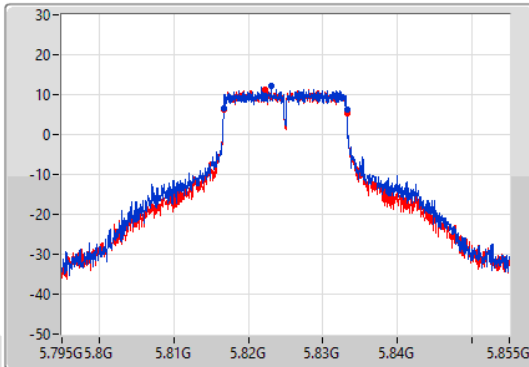
5825MHz

14/03/2022

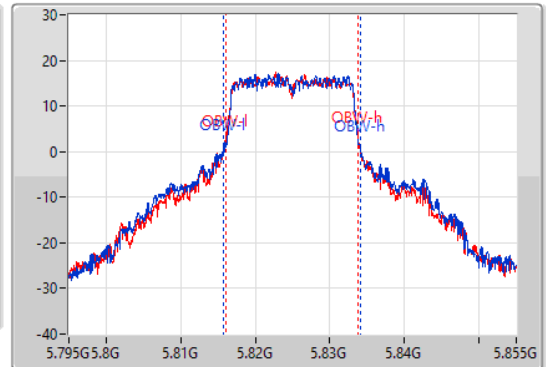
CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak

Port 1

Port 2



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.47M	5.81672G	5.83319G	18.441M	5.815735G	5.834175G	500k	1
16.53M	5.81672G	5.83325G	17.841M	5.816004G	5.833846G	500k	2

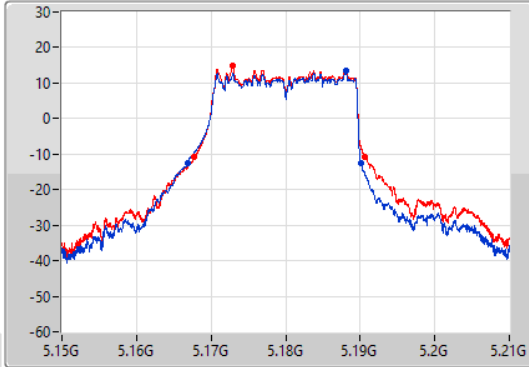
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

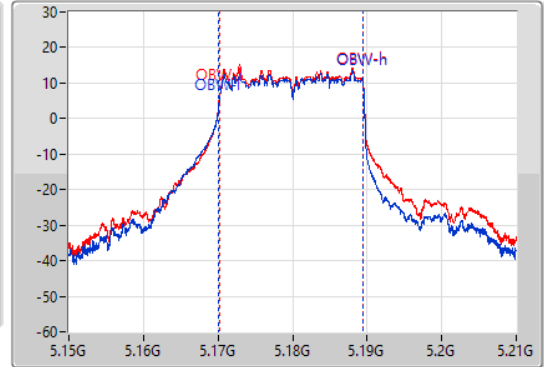
5180MHz

14/03/2022

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.19M	5.16692G	5.19011G	19.4M	5.170075G	5.189475G	Inf	1
22.98M	5.16767G	5.19065G	19.31M	5.170165G	5.189475G	Inf	2

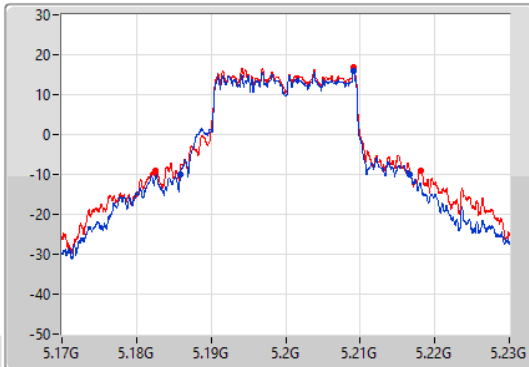
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

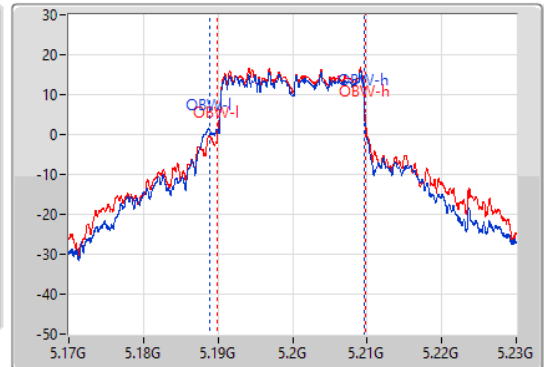
5200MHz

14/03/2022

CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.69M	5.18587G	5.21656G	20.78M	5.188846G	5.209625G	Inf	1
35.58M	5.1826G	5.21818G	19.82M	5.189895G	5.209715G	Inf	2

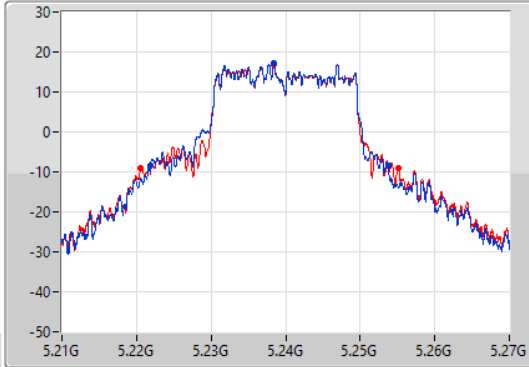
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

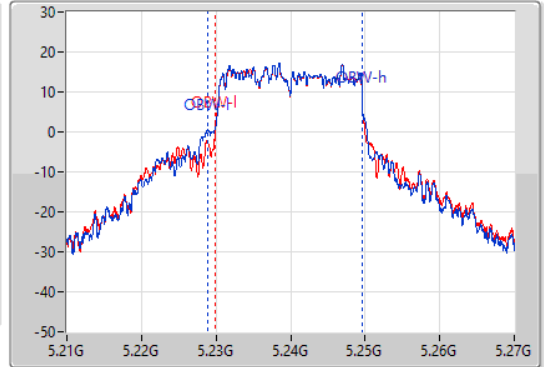
5240MHz

14/03/2022

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.86M	5.22188G	5.25374G	20.66M	5.228966G	5.249625G	Inf	1
34.5M	5.22059G	5.25509G	19.7M	5.229925G	5.249625G	Inf	2

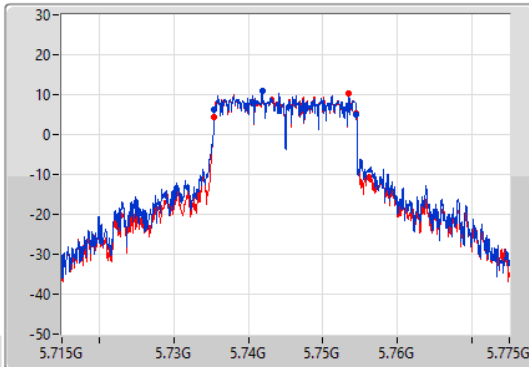
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

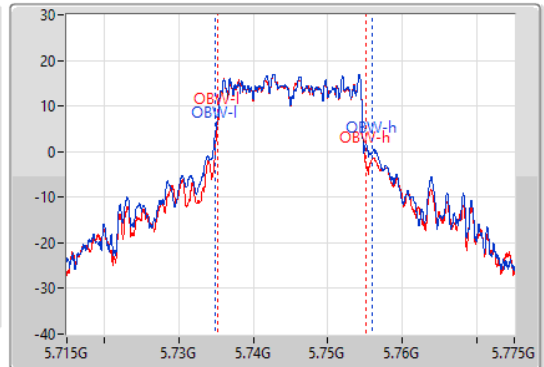
5745MHz

14/03/2022

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.08M	5.73543G	5.75451G	21.169M	5.734835G	5.756004G	500k	1
19.11M	5.7354G	5.75451G	19.82M	5.735225G	5.755045G	500k	2

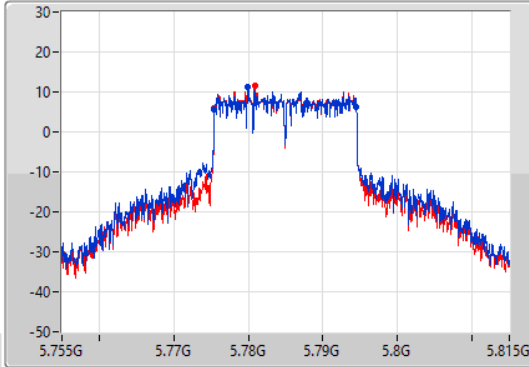
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

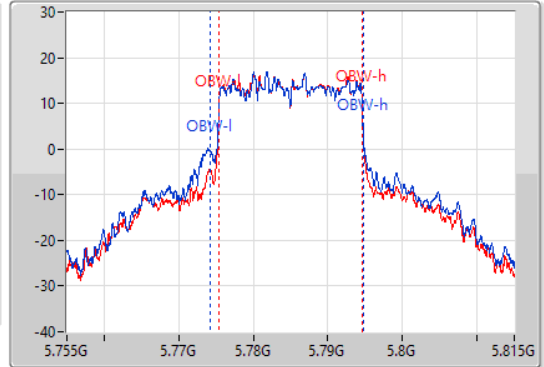
5785MHz

14/03/2022

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.08M	5.77543G	5.79451G	20.54M	5.774175G	5.794715G	500k	1
19.05M	5.77546G	5.79451G	19.16M	5.775405G	5.794565G	500k	2

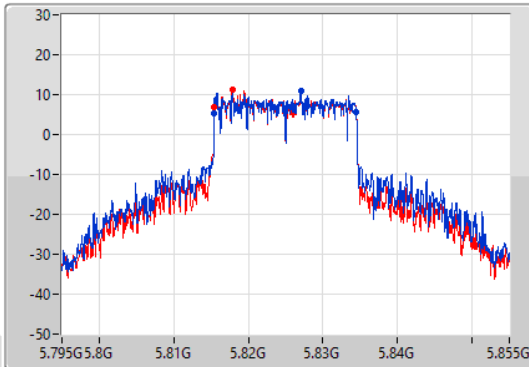
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

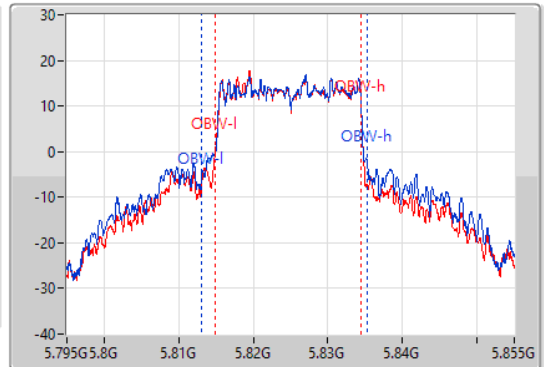
5825MHz

14/03/2022

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



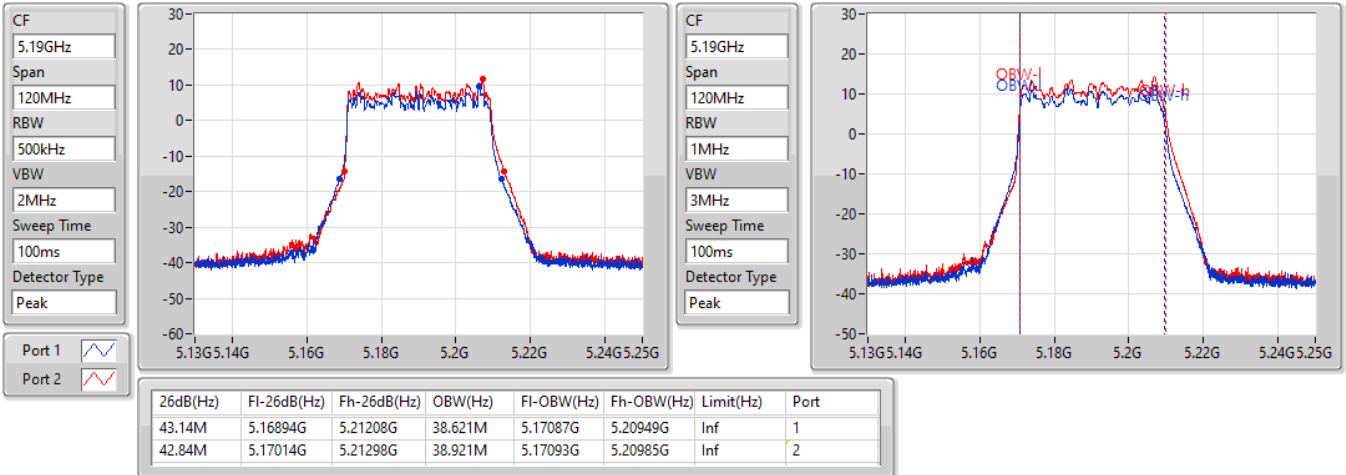
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.08M	5.8154G	5.83448G	22.249M	5.812976G	5.835225G	500k	1
19.05M	5.81543G	5.83448G	19.52M	5.814955G	5.834475G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

14/03/2022

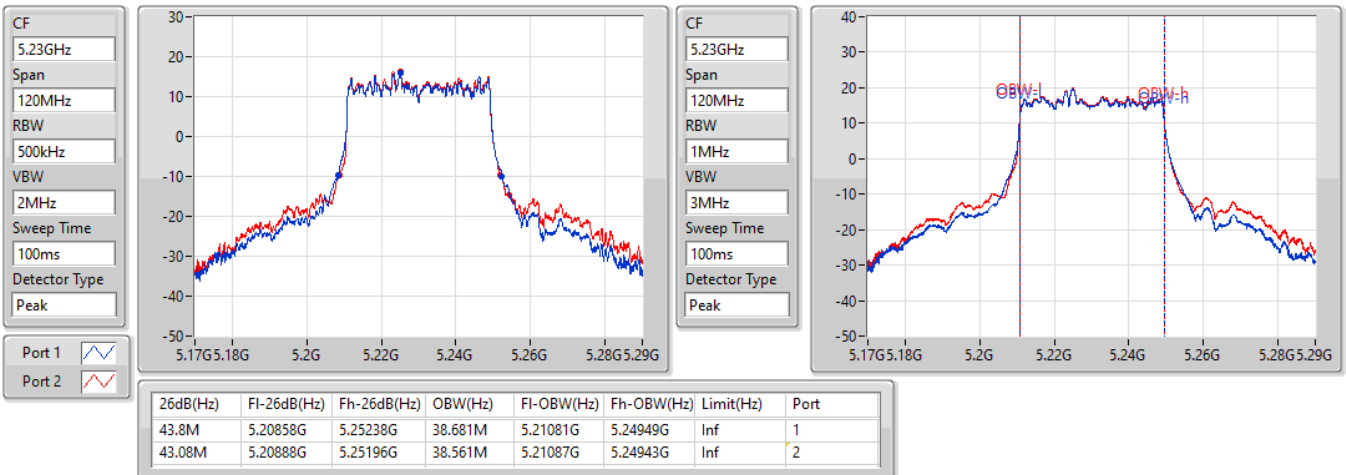


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

14/03/2022



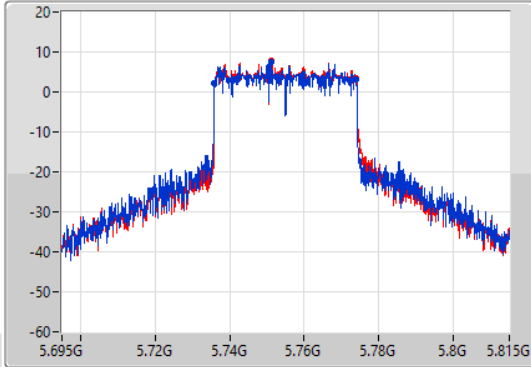
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

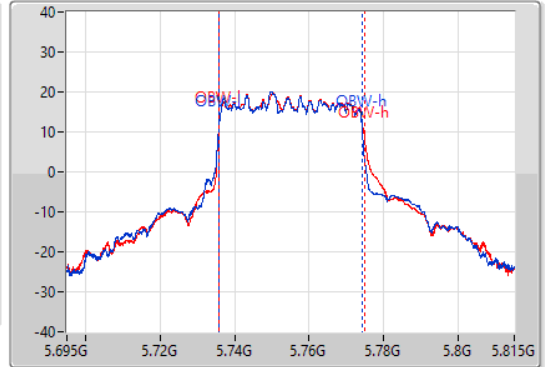
5755MHz

14/03/2022

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.1M	5.73592G	5.77402G	38.321M	5.73581G	5.77413G	500k	1
38.1M	5.73592G	5.77402G	38.861M	5.73593G	5.77479G	500k	2

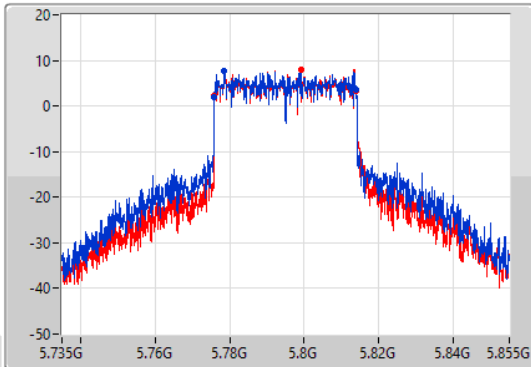
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

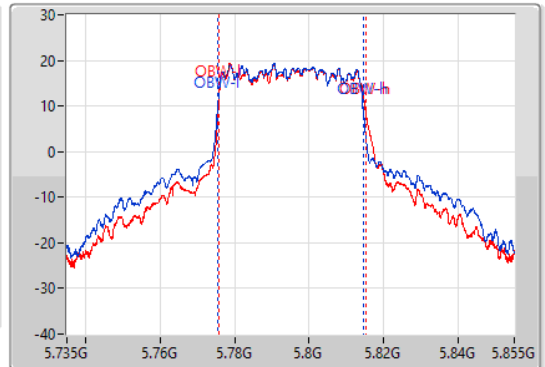
5795MHz

14/03/2022

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.16M	5.77586G	5.81402G	39.1M	5.77545G	5.81455G	500k	1
38.1M	5.77592G	5.81402G	39.4M	5.77581G	5.81521G	500k	2

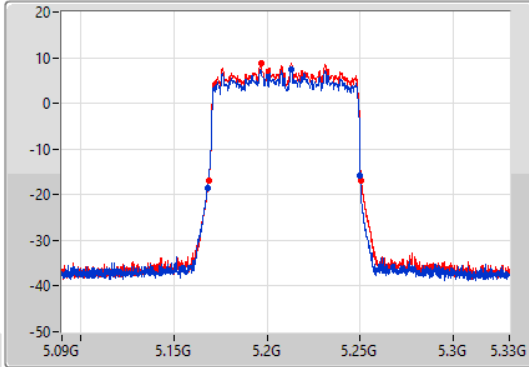
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

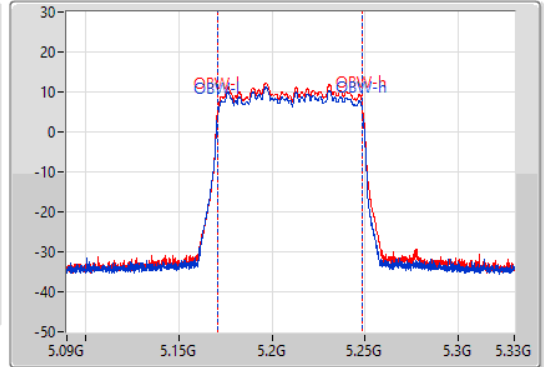
5210MHz

14/03/2022

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.84M	5.16824G	5.25008G	77.361M	5.171139G	5.248501G	Inf	1
81.84M	5.16872G	5.25056G	77.361M	5.171139G	5.248501G	Inf	2

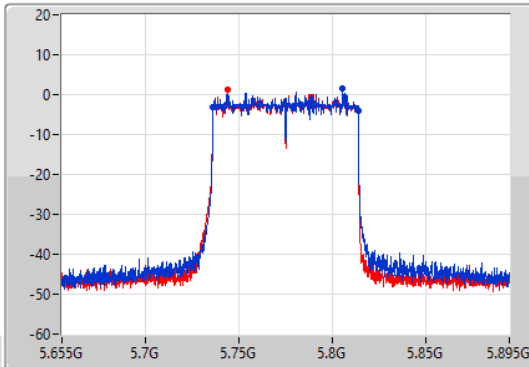
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

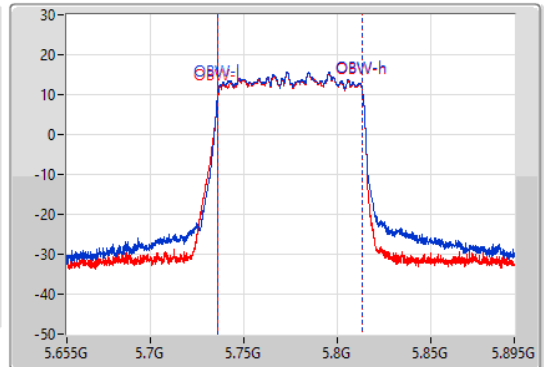
5775MHz

14/03/2022

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
78.12M	5.73588G	5.814G	77.841M	5.7359G	5.813741G	500k	1
78.12M	5.73588G	5.814G	77.961M	5.73578G	5.813741G	500k	2



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	28.62	0.72778
802.11ax HEW20_Nss1,(MCS0)_2TX	28.62	0.72778
802.11ax HEW40_Nss1,(MCS0)_2TX	27.21	0.52602
802.11ax HEW80_Nss1,(MCS0)_2TX	21.17	0.13092
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	28.57	0.71945
802.11ax HEW20_Nss1,(MCS0)_2TX	28.72	0.74473
802.11ax HEW40_Nss1,(MCS0)_2TX	28.27	0.67143
802.11ax HEW80_Nss1,(MCS0)_2TX	24.09	0.25645



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.90	24.04	24.49	27.28	30.00
5200MHz	Pass	3.90	25.39	25.82	28.62	30.00
5240MHz	Pass	3.90	25.26	25.54	28.41	30.00
5745MHz	Pass	5.00	25.44	25.68	28.57	30.00
5785MHz	Pass	5.00	25.28	25.38	28.34	30.00
5825MHz	Pass	5.00	25.17	25.26	28.23	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.90	22.65	23.39	26.05	30.00
5200MHz	Pass	3.90	25.13	25.97	28.58	30.00
5240MHz	Pass	3.90	25.66	25.56	28.62	30.00
5745MHz	Pass	5.00	25.76	25.66	28.72	30.00
5785MHz	Pass	5.00	25.42	25.55	28.50	30.00
5825MHz	Pass	5.00	25.60	25.39	28.51	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	3.90	18.89	20.02	22.50	30.00
5230MHz	Pass	3.90	24.01	24.38	27.21	30.00
5755MHz	Pass	5.00	24.55	24.81	27.69	30.00
5795MHz	Pass	5.00	25.40	25.11	28.27	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	3.90	17.63	18.63	21.17	30.00
5775MHz	Pass	5.00	21.22	20.94	24.09	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	16.00
802.11ax HEW20_Nss1,(MCS0)_2TX	15.57
802.11ax HEW40_Nss1,(MCS0)_2TX	11.28
802.11ax HEW80_Nss1,(MCS0)_2TX	2.38
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	14.36
802.11ax HEW20_Nss1,(MCS0)_2TX	14.64
802.11ax HEW40_Nss1,(MCS0)_2TX	11.36
802.11ax HEW80_Nss1,(MCS0)_2TX	4.08

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.66	11.34	11.74	14.52	16.34
5200MHz	Pass	6.66	12.82	13.22	16.00	16.34
5240MHz	Pass	6.66	12.61	12.89	15.73	16.34
5745MHz	Pass	7.81	11.26	11.48	14.36	28.19
5785MHz	Pass	7.81	11.15	11.25	14.15	28.19
5825MHz	Pass	7.81	10.97	11.01	13.93	28.19
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.66	9.81	10.63	13.06	16.34
5200MHz	Pass	6.66	12.03	13.03	15.55	16.34
5240MHz	Pass	6.66	12.69	12.46	15.57	16.34
5745MHz	Pass	7.81	11.93	11.36	14.64	28.19
5785MHz	Pass	7.81	11.36	11.28	14.31	28.19
5825MHz	Pass	7.81	11.43	11.56	14.33	28.19
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.66	1.73	3.53	5.51	16.34
5230MHz	Pass	6.66	8.41	8.36	11.28	16.34
5755MHz	Pass	7.81	7.74	7.85	10.56	28.19
5795MHz	Pass	7.81	8.48	8.25	11.36	28.19
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.66	-0.78	0.03	2.38	16.34
5775MHz	Pass	7.81	1.65	0.90	4.08	28.19

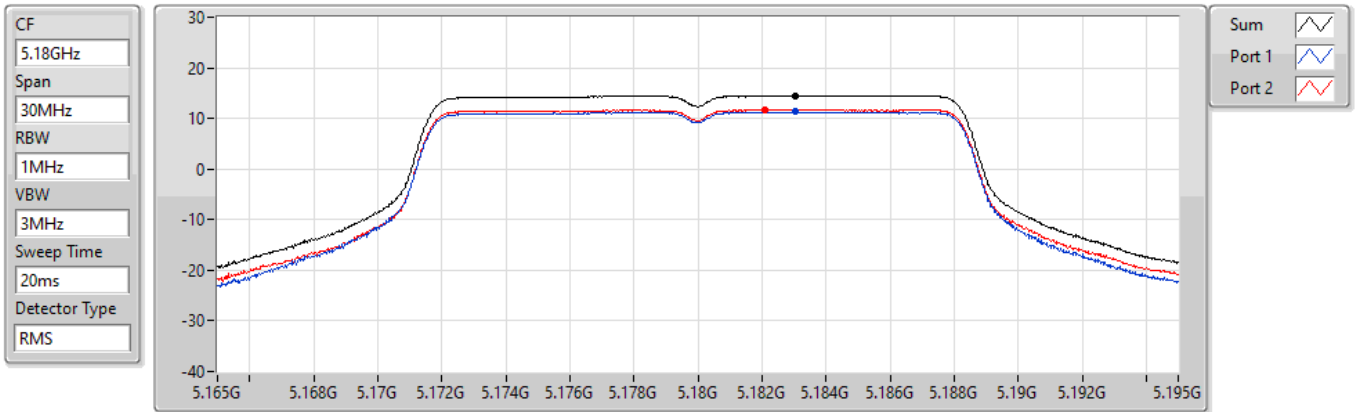
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

14/03/2022



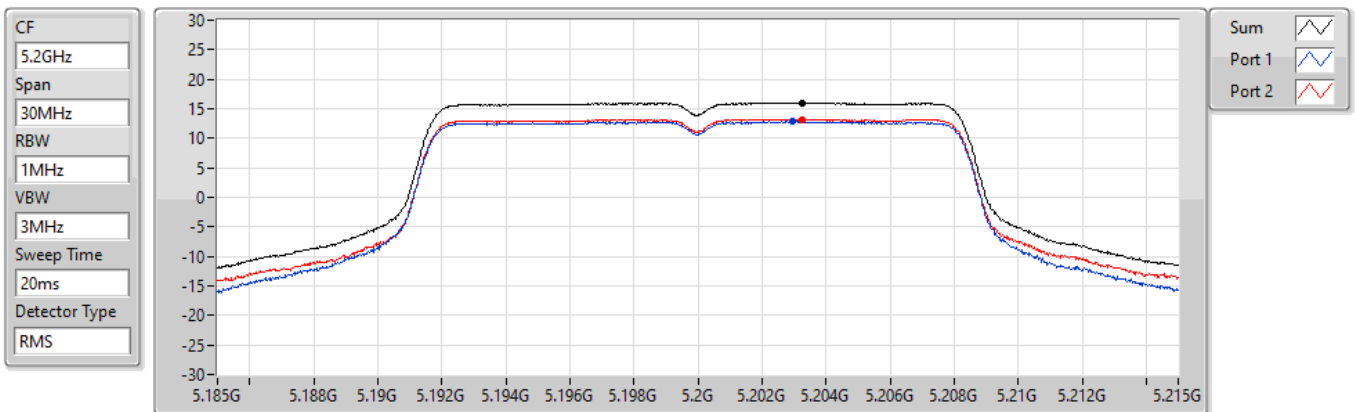
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.52	14.52	11.34	11.74

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

14/03/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.00	16.00	12.82	13.22

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

14/03/2022

CF
5.24GHz

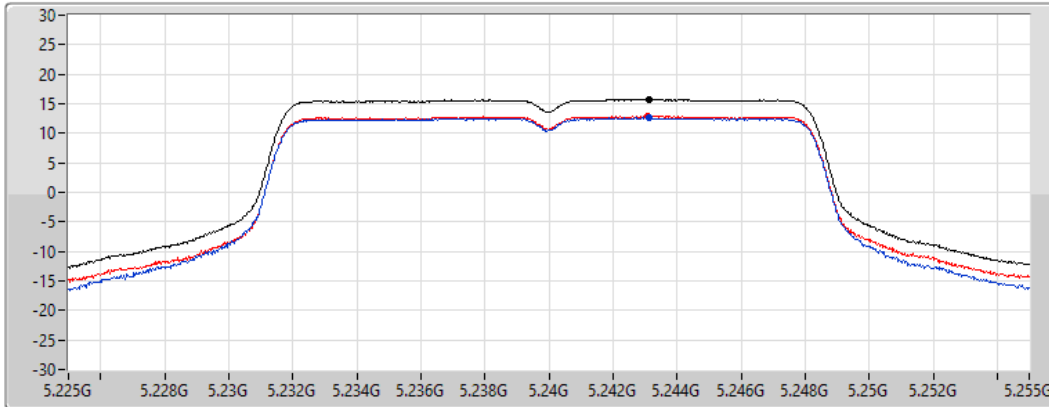
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.73	15.73	12.61	12.89

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

14/03/2022

CF
5.745GHz

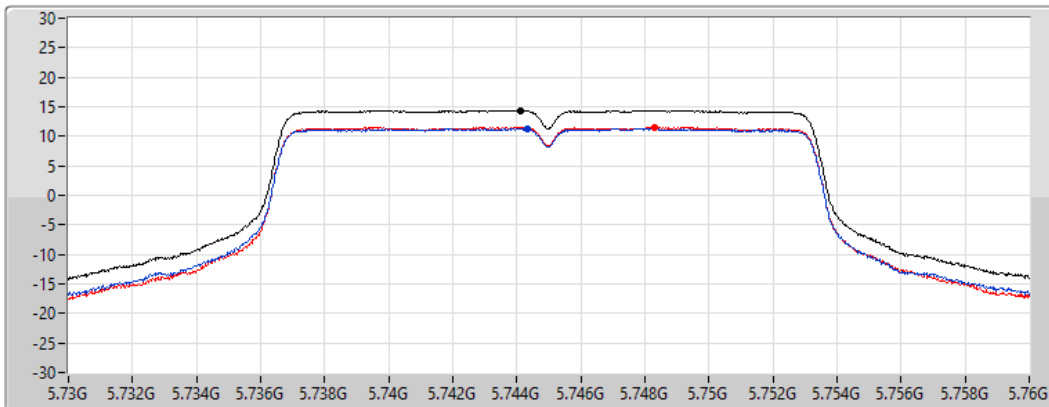
Span
30MHz


RBW
500kHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.36	14.36	11.26	11.48

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

14/03/2022

CF
5.785GHz

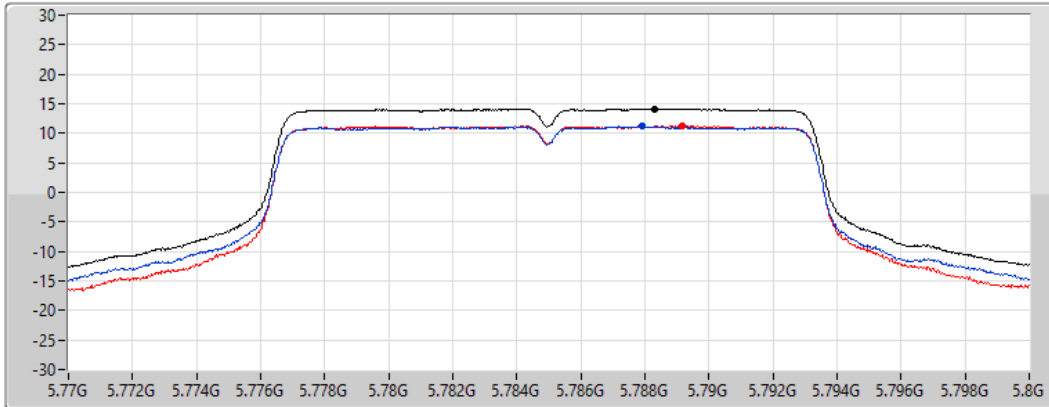
Span
30MHz


RBW
500kHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.15	14.15	11.15	11.25

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

14/03/2022

CF
5.825GHz

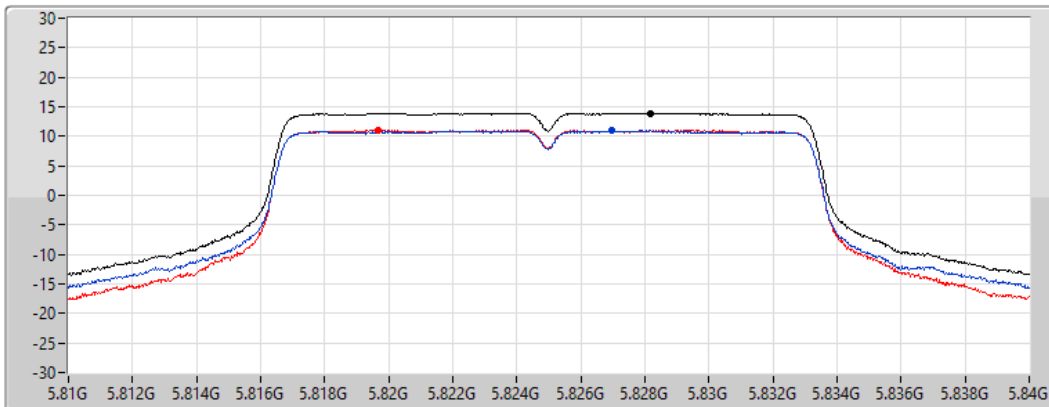
Span
30MHz


RBW
500kHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

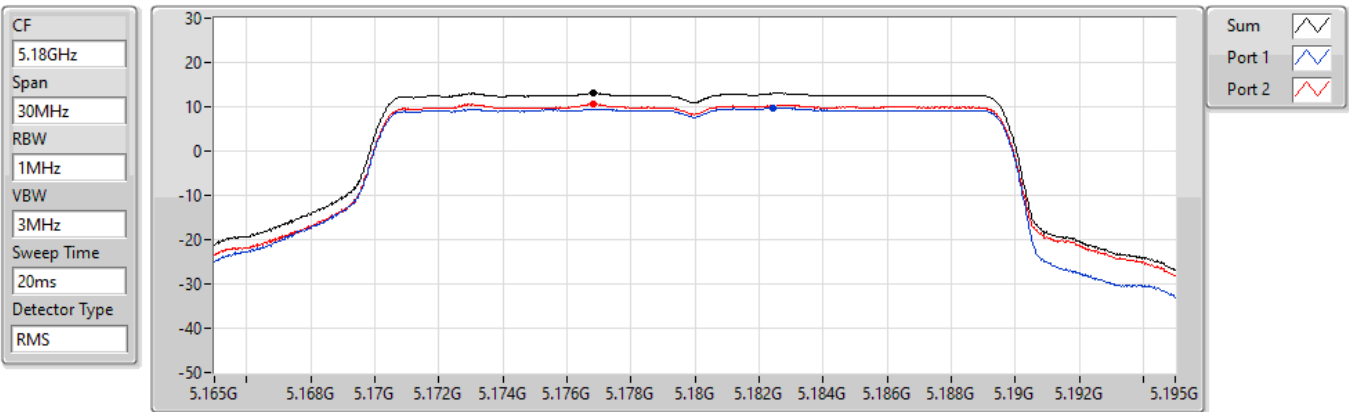
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.93	13.93	10.97	11.01

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

14/03/2022



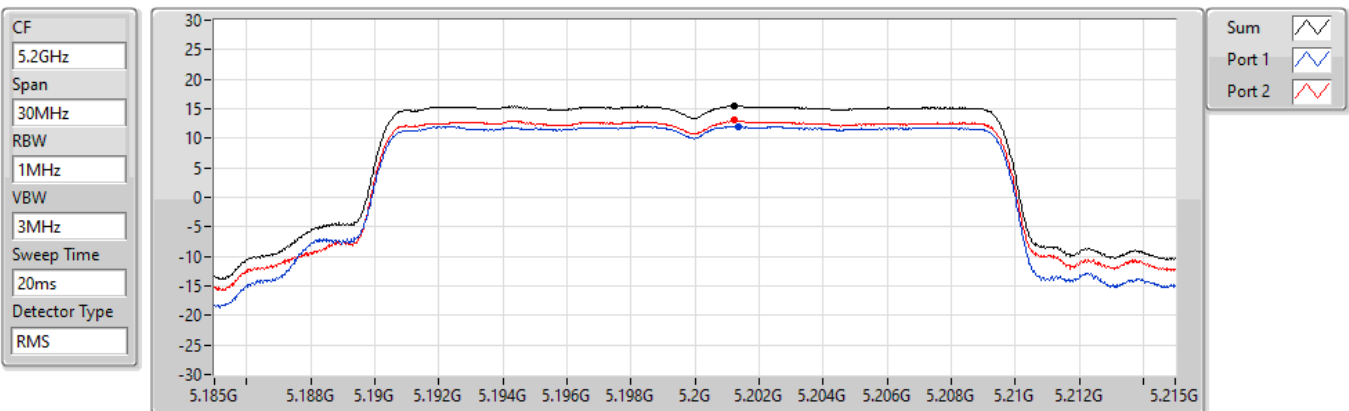
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.06	13.06	9.81	10.63

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

14/03/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.55	15.55	12.03	13.03

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

14/03/2022

CF
5.24GHz

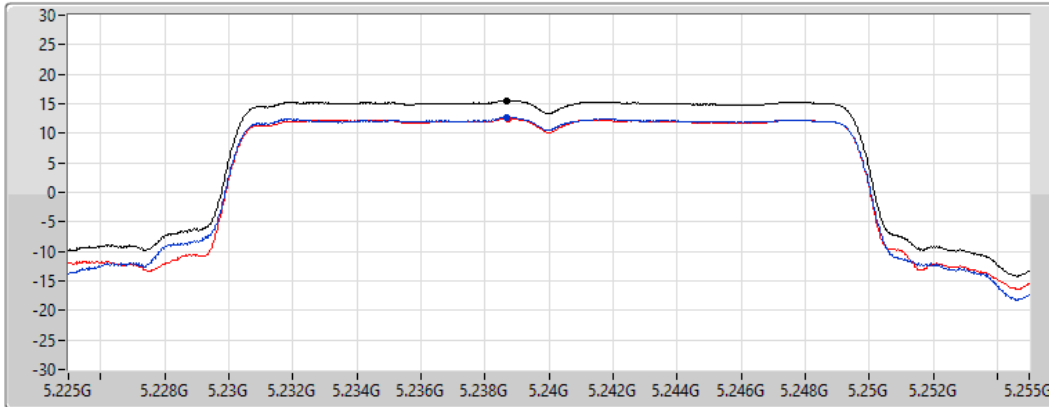
Span
30MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.57	15.57	12.69	12.46

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

14/03/2022

CF
5.745GHz

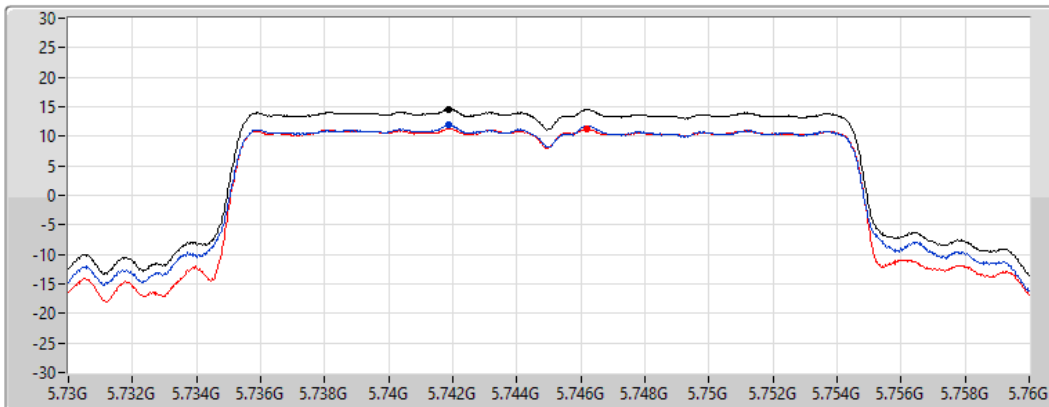
Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

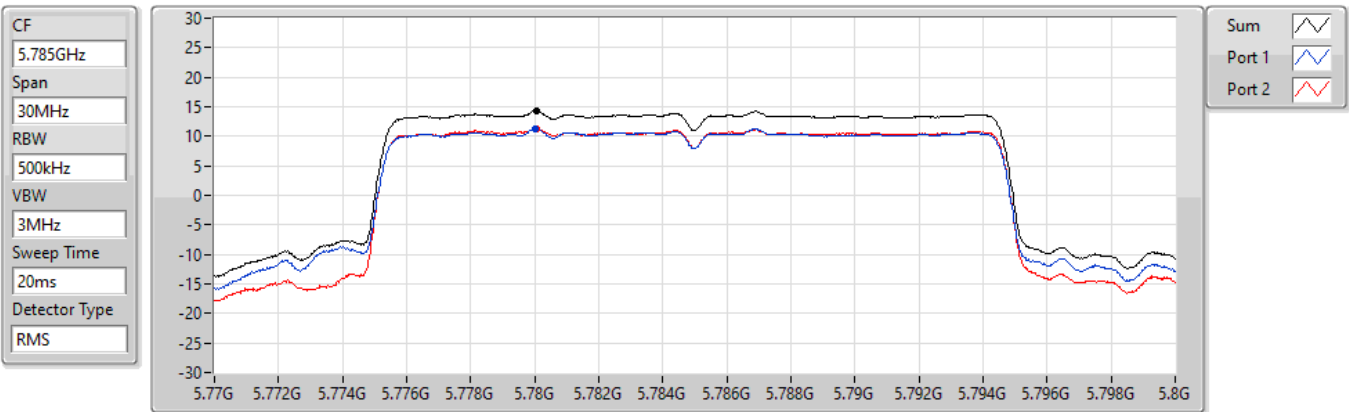
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.64	14.64	11.93	11.36

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

14/03/2022



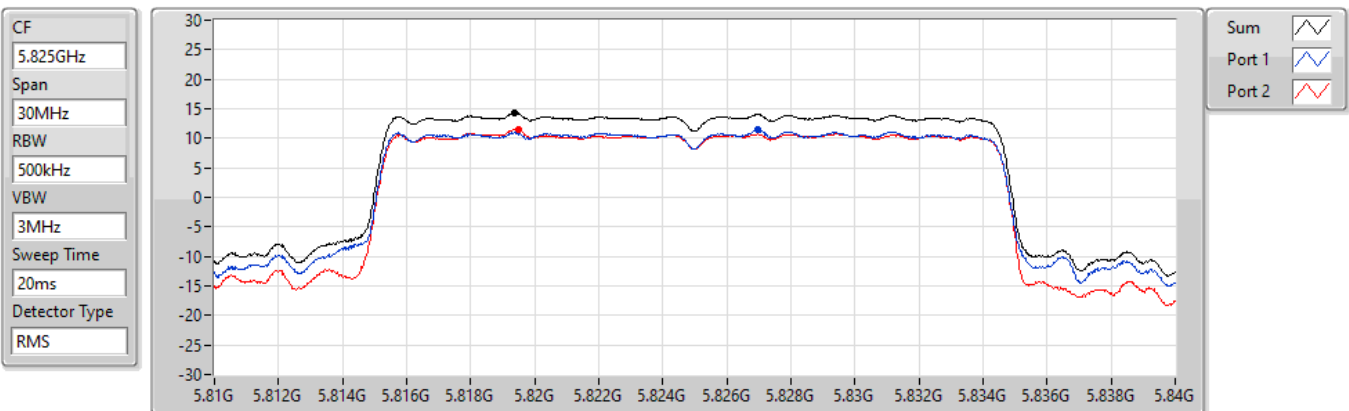
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.31	14.31	11.36	11.28

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

14/03/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.33	14.33	11.43	11.56

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

14/03/2022

CF
5.19GHz

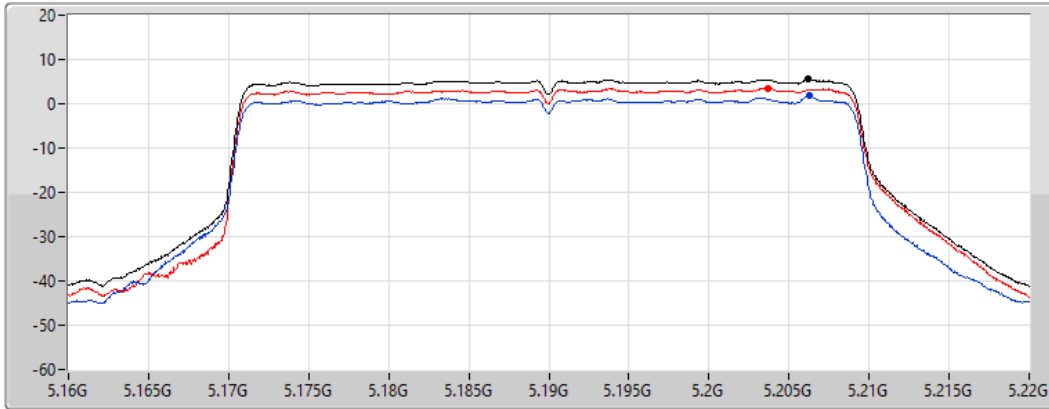
Span
60MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.51	5.51	1.73	3.53

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

14/03/2022

CF
5.23GHz

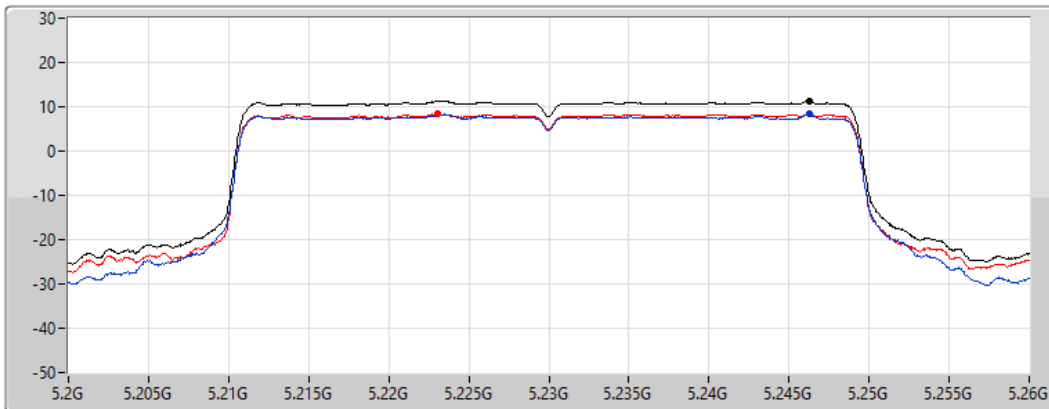
Span
60MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

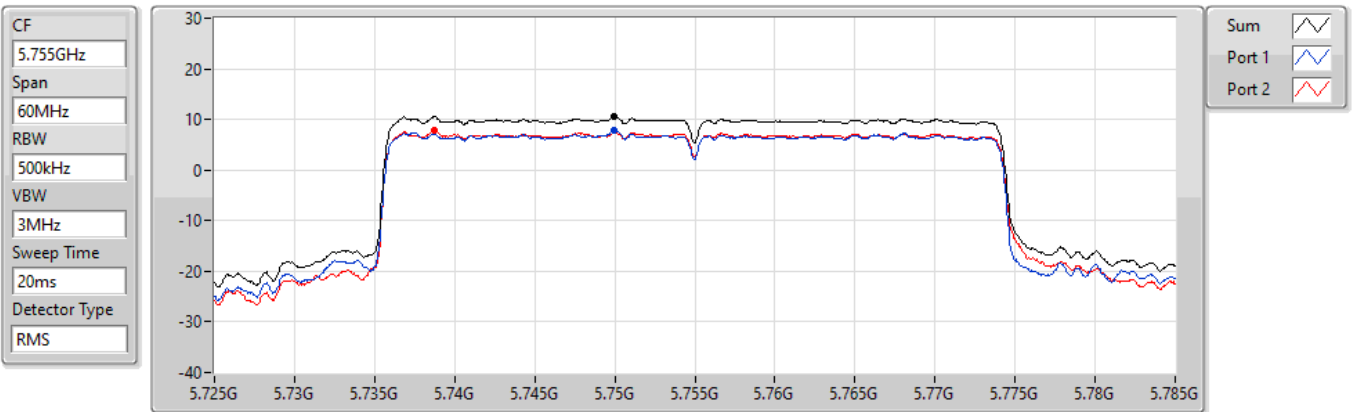
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.28	11.28	8.41	8.36

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

14/03/2022



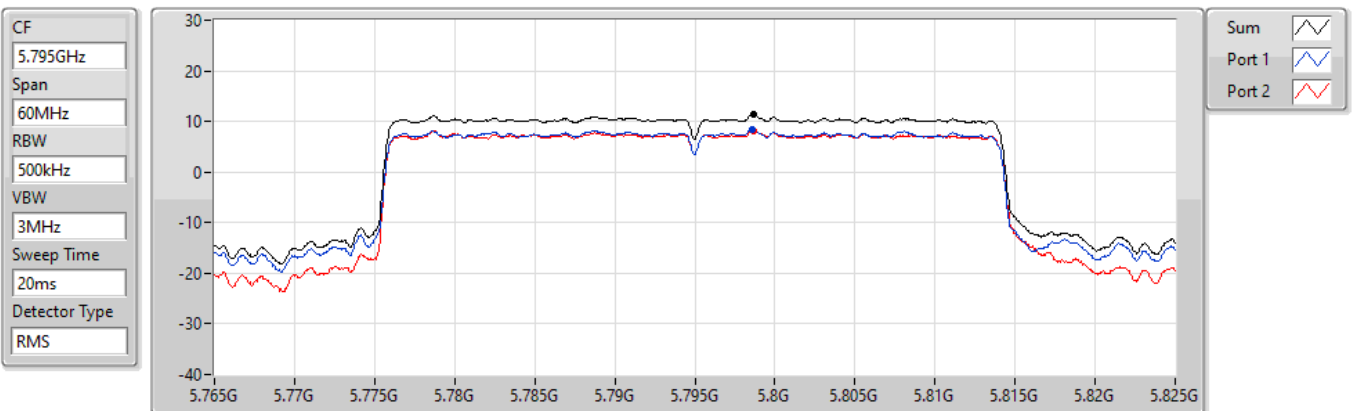
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.56	10.56	7.74	7.85

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

14/03/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.36	11.36	8.48	8.25

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

14/03/2022

CF
5.21GHz

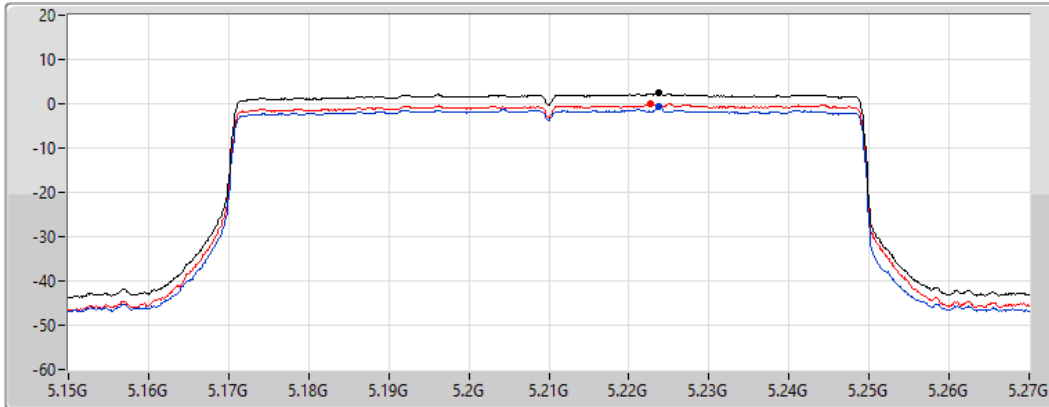
Span
120MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.38	2.38	-0.78	0.03

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

14/03/2022

CF
5.775GHz

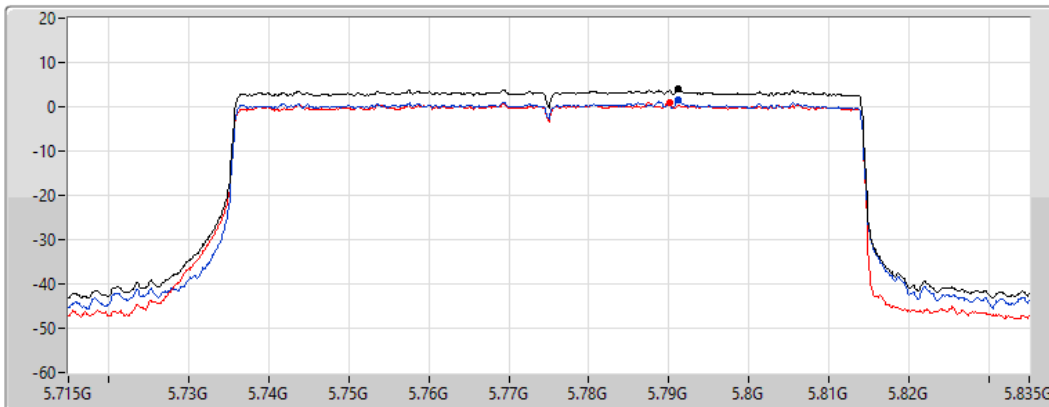
Span
120MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

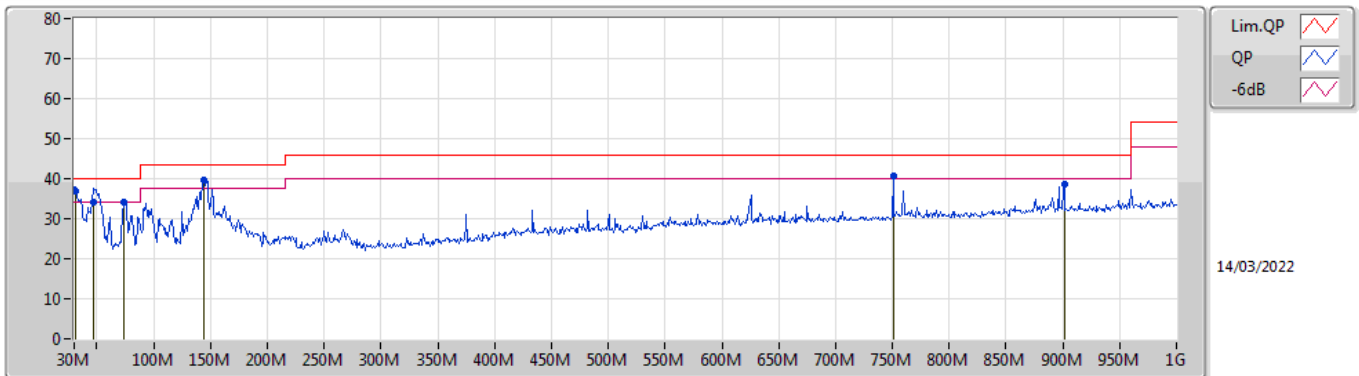
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.08	4.08	1.65	0.90



Summary

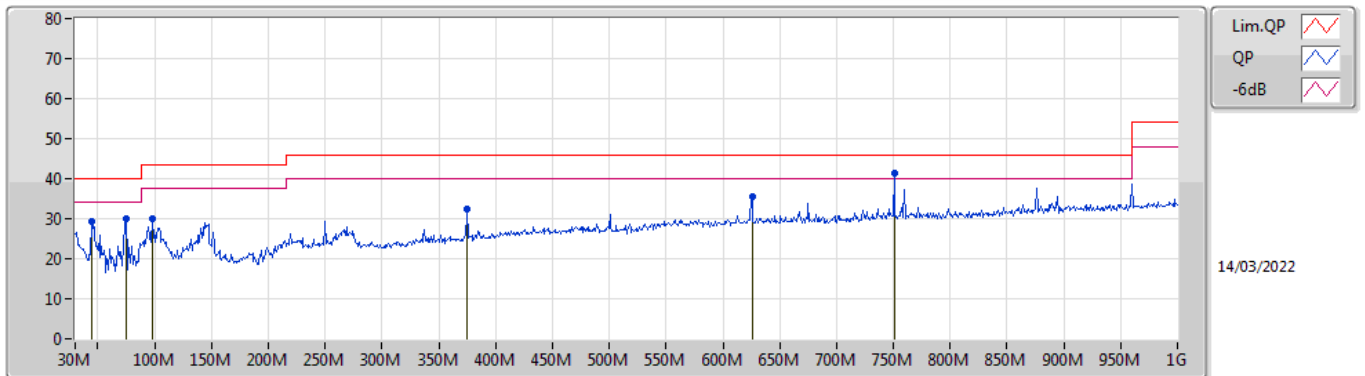
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	30.97M	36.99	40.00	-3.01	Vertical

Mode 4



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	30.97M	36.99	40.00	-3.01	-7.01	3	Vertical	11	1.25	"Worst"	44.00	23.68	0.82	31.51
QP	47.46M	34.31	40.00	-5.69	-15.79	3	Vertical	18	1.25	-	50.10	14.90	1.05	31.74
PK	73.65M	34.28	40.00	-5.72	-18.40	3	Vertical	11	1.25	-	52.68	12.20	1.30	31.90
PK	144.46M	39.54	43.50	-3.96	-13.56	3	Vertical	191	1.50	-	53.10	16.56	1.84	31.96
PK	750.71M	40.78	46.00	-5.22	-2.82	3	Vertical	74	1.00	-	43.60	25.19	4.70	32.71
PK	901.06M	38.65	46.00	-7.35	-1.14	3	Vertical	6	2.00	-	39.79	26.21	5.31	32.66

Mode 4



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	44.55M	29.34	40.00	-10.66	-14.34	3	Horizontal	359	1.50	-	43.68	16.38	0.99	31.71
PK	74.62M	29.93	40.00	-10.07	-18.38	3	Horizontal	152	1.25	-	48.31	12.22	1.30	31.90
PK	97.9M	30.10	43.50	-13.40	-14.20	3	Horizontal	158	2.00	-	44.30	16.22	1.46	31.88
PK	375.32M	32.47	46.00	-13.53	-8.28	3	Horizontal	232	1.00	-	40.75	20.77	3.10	32.15
PK	625.58M	35.48	46.00	-10.52	-3.91	3	Horizontal	289	1.00	-	39.39	24.51	4.10	32.52
PK	750.71M	41.47	46.00	-4.53	-2.82	3	Horizontal	45	1.25	"Worst"	44.29	25.19	4.70	32.71

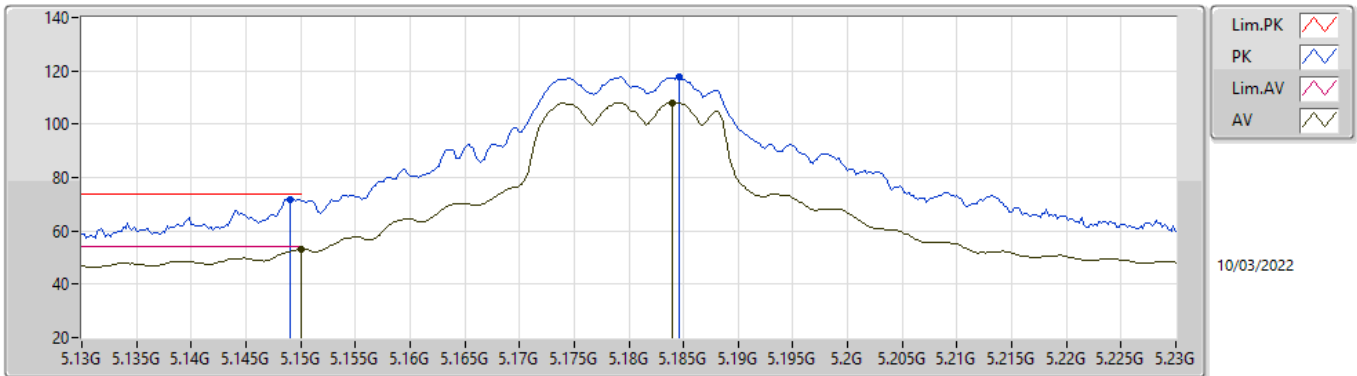


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.149G	52.95	54.00	-1.05	3	Vertical	92	2.72	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

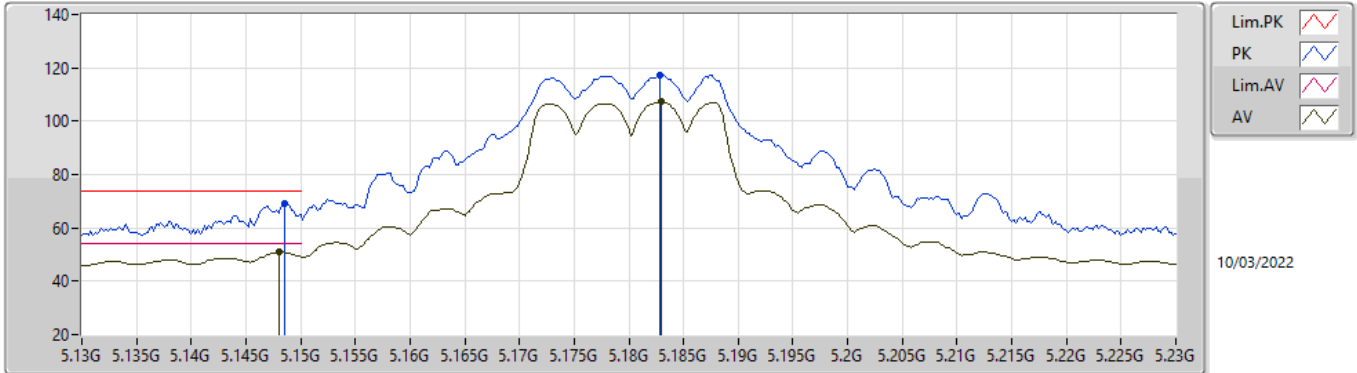


EUT_X_2TX
Setting 24.5
04-D-C-5-10

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	5.149G	71.87	74.00	-2.13	67.09	3	Vertical	94	2.72	-	32.90	5.05	33.17
AV	5.15G	52.90	54.00	-1.10	48.12	3	Vertical	94	2.72	-	32.90	5.05	33.17
PK	5.1846G	117.69	Inf	-Inf	112.81	3	Vertical	94	2.72	-	32.97	5.08	33.17
AV	5.184G	108.12	Inf	-Inf	103.24	3	Vertical	94	2.72	-	32.97	5.08	33.17

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

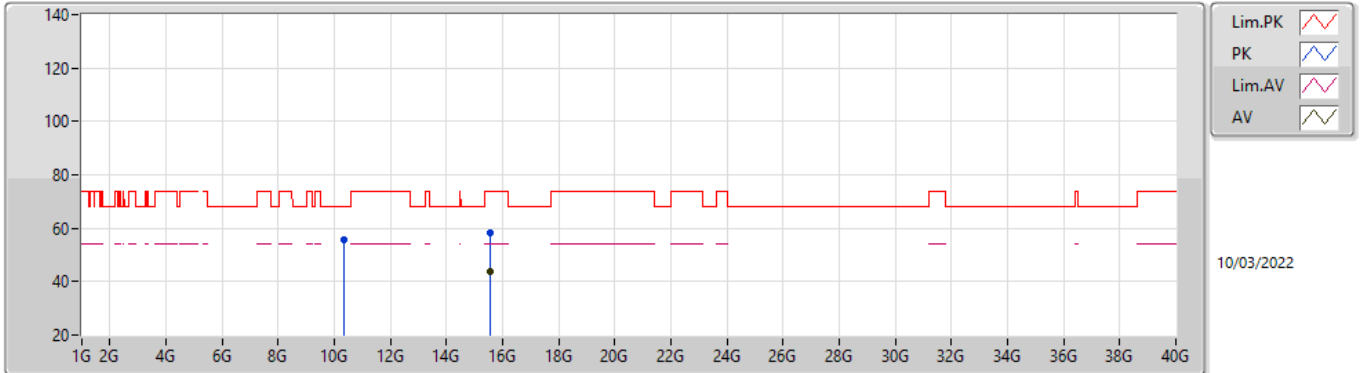


EUT_X_2TX
Setting 24.5
04-D-C-5-10

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	5.1486G	69.29	74.00	-4.71	64.50	3	Horizontal	360	1.09	-	32.91	5.05	33.17
AV	5.148G	50.93	54.00	-3.07	46.14	3	Horizontal	360	1.09	-	32.91	5.05	33.17
PK	5.1828G	117.18	Inf	-Inf	112.30	3	Horizontal	360	1.09	-	32.97	5.08	33.17
AV	5.183G	107.26	Inf	-Inf	102.38	3	Horizontal	360	1.09	-	32.97	5.08	33.17

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

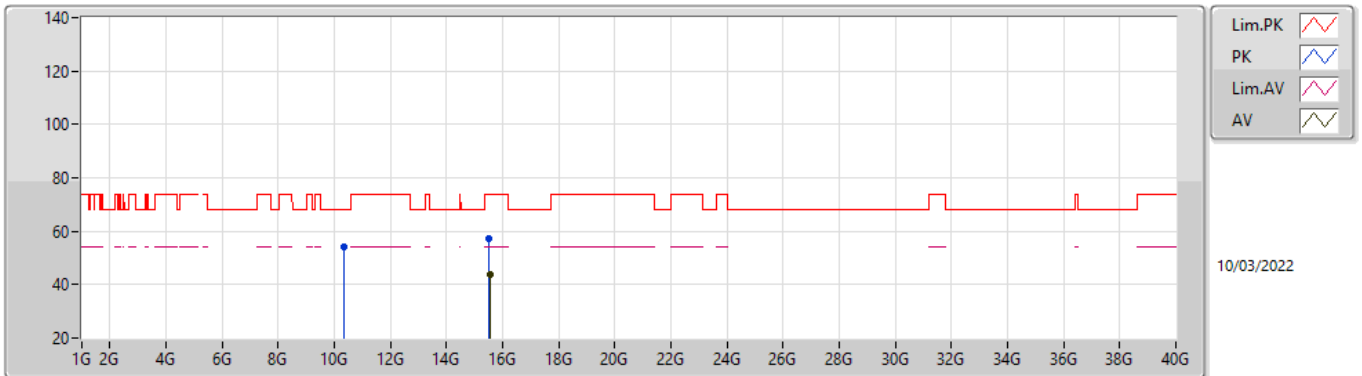


EUT_X_2TX
Setting 24.5
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.36016G	55.50	68.20	-12.70	42.67	3	Vertical	315	1.03	-	38.96	7.85	33.98
PK	15.53672G	58.11	74.00	-15.89	45.41	3	Vertical	82	2.56	-	38.85	8.98	35.13
AV	15.54056G	43.99	54.00	-10.01	31.29	3	Vertical	82	2.56	-	38.84	8.99	35.13

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

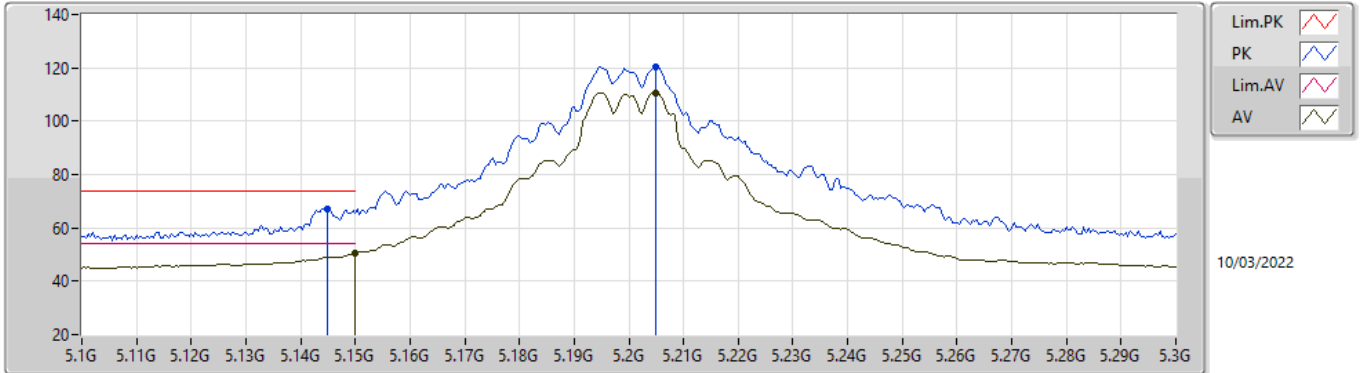


EUT_X_2TX
Setting 24.5
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.3636G	54.12	68.20	-14.08	41.30	3	Horizontal	329	2.47	-	38.96	7.85	33.99
PK	15.53056G	57.32	74.00	-16.68	44.59	3	Horizontal	188	2.64	-	38.88	8.98	35.13
AV	15.53696G	43.54	54.00	-10.46	30.84	3	Horizontal	188	2.64	-	38.85	8.98	35.13

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

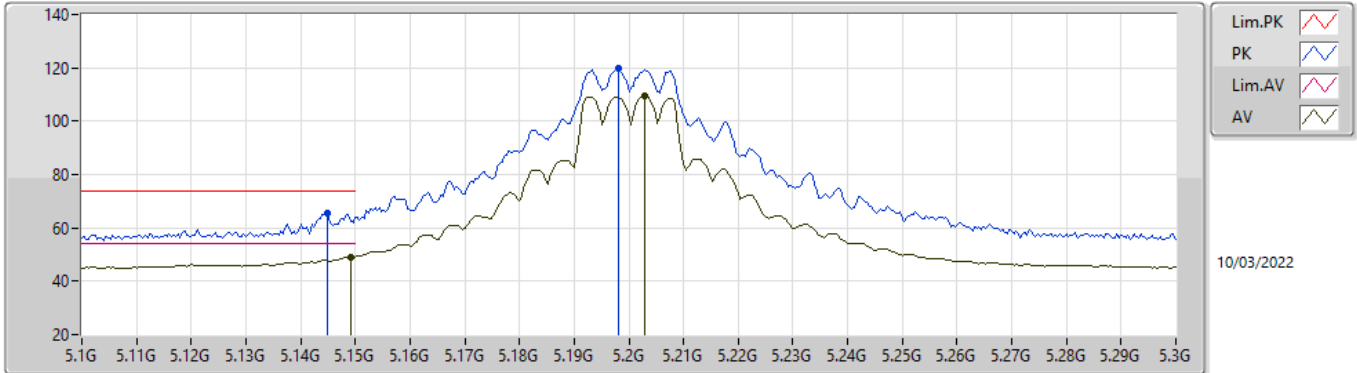


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.1448G	67.15	74.00	-6.85	62.36	3	Vertical	89	2.42	-	32.92	5.04	33.17
AV	5.15G	50.50	54.00	-3.50	45.72	3	Vertical	89	2.42	-	32.90	5.05	33.17
PK	5.2048G	120.40	Inf	-Inf	115.47	3	Vertical	89	2.42	-	33.00	5.10	33.17
AV	5.2048G	110.43	Inf	-Inf	105.50	3	Vertical	89	2.42	-	33.00	5.10	33.17

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

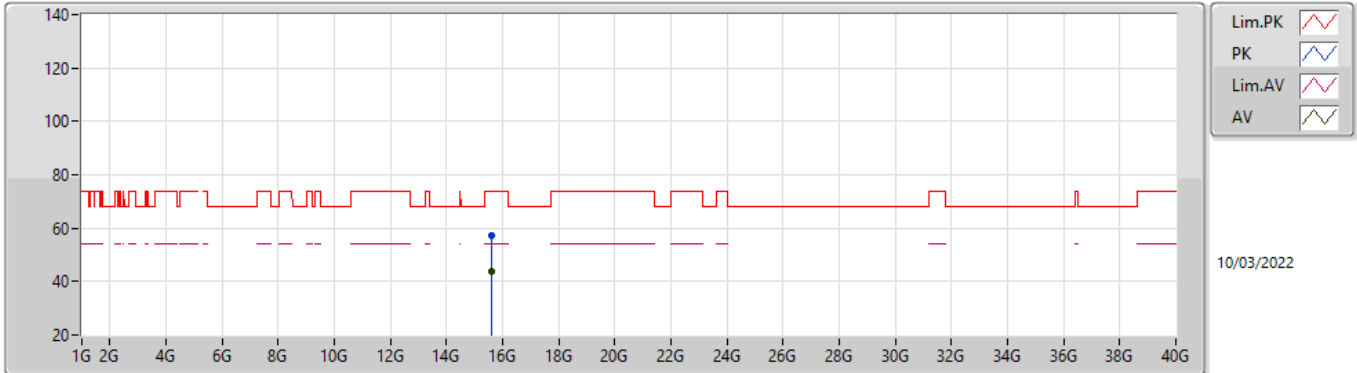


EUTX_2TX
Setting 28
04-D-C-5-10

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	5.1448G	65.56	74.00	-8.44	60.77	3	Horizontal	358	1.00	-	32.92	5.04	33.17
AV	5.1492G	49.09	54.00	-4.91	44.31	3	Horizontal	358	1.00	-	32.90	5.05	33.17
PK	5.198G	119.58	Inf	-Inf	114.65	3	Horizontal	358	1.00	-	33.00	5.10	33.17
AV	5.2028G	109.30	Inf	-Inf	104.37	3	Horizontal	358	1.00	-	33.00	5.10	33.17

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

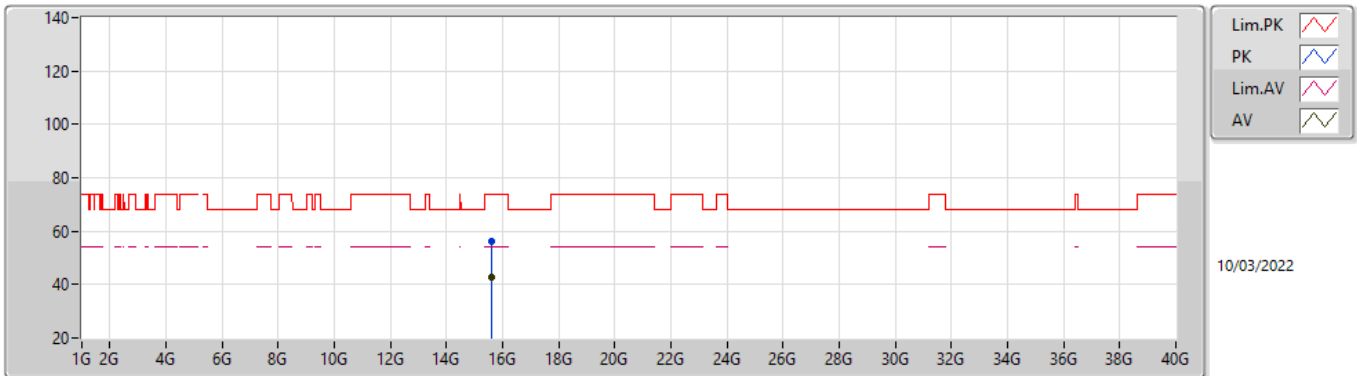


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.6036G	57.16	74.00	-16.84	44.71	3	Vertical	109	2.10	-	38.59	9.00	35.14
AV	15.6008G	43.77	54.00	-10.23	31.31	3	Vertical	109	2.10	-	38.60	9.00	35.14

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

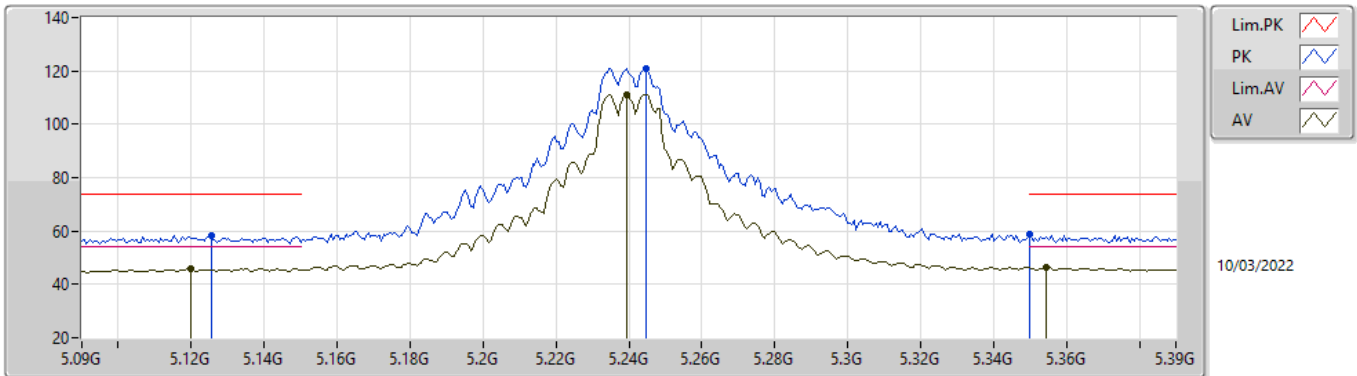


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.604G	56.37	74.00	-17.63	43.92	3	Horizontal	60	1.89	-	38.59	9.00	35.14
AV	15.5996G	42.70	54.00	-11.30	30.24	3	Horizontal	60	1.89	-	38.60	9.00	35.14

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

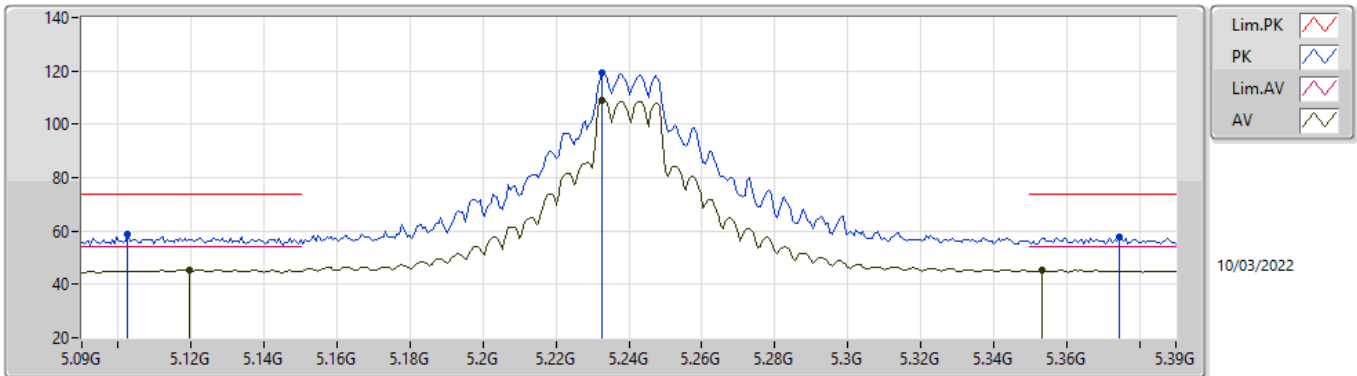


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.1254G	58.48	74.00	-15.52	53.62	3	Vertical	92	2.42	-	33.00	5.03	33.17
AV	5.12G	45.96	54.00	-8.04	41.08	3	Vertical	92	2.42	-	33.02	5.02	33.16
PK	5.2448G	120.80	Inf	-Inf	115.87	3	Vertical	92	2.42	-	33.00	5.10	33.17
AV	5.2394G	110.90	Inf	-Inf	105.97	3	Vertical	92	2.42	-	33.00	5.10	33.17
PK	5.35G	58.58	74.00	-15.42	53.55	3	Vertical	92	2.42	-	33.10	5.10	33.17
AV	5.3546G	46.36	54.00	-7.64	41.30	3	Vertical	92	2.42	-	33.13	5.10	33.17

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

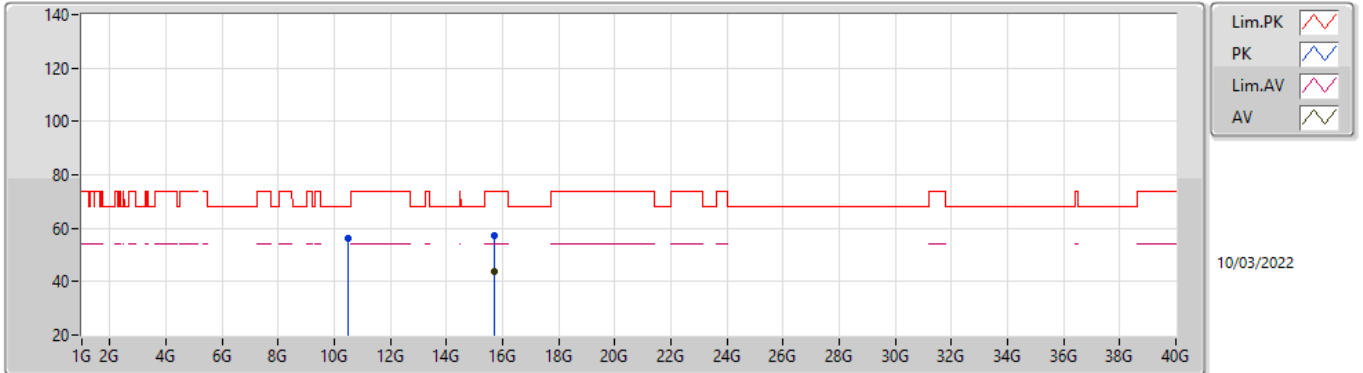


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.1026G	58.73	74.00	-15.27	53.80	3	Horizontal	2	1.17	-	33.09	5.00	33.16
AV	5.1194G	45.54	54.00	-8.46	40.66	3	Horizontal	2	1.17	-	33.02	5.02	33.16
PK	5.2328G	119.23	Inf	-Inf	114.30	3	Horizontal	2	1.17	-	33.00	5.10	33.17
AV	5.2328G	109.04	Inf	-Inf	104.11	3	Horizontal	2	1.17	-	33.00	5.10	33.17
PK	5.3744G	57.94	74.00	-16.06	52.76	3	Horizontal	2	1.17	-	33.25	5.10	33.17
AV	5.3534G	45.42	54.00	-8.58	40.37	3	Horizontal	2	1.17	-	33.12	5.10	33.17

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

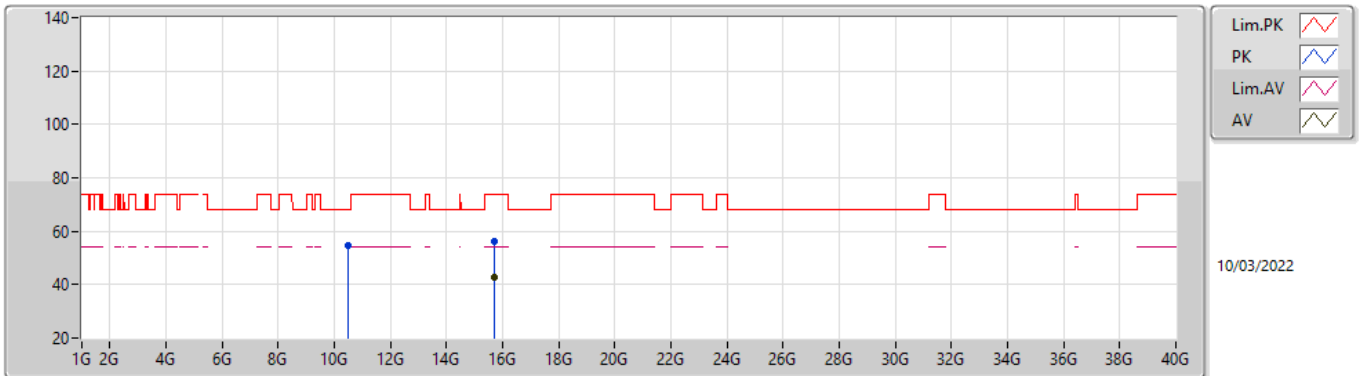


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47994G	56.15	68.20	-12.05	43.15	3	Vertical	316	1.00	-	39.16	7.94	34.10
PK	15.71682G	57.39	74.00	-16.61	45.13	3	Vertical	206	2.64	-	38.37	9.03	35.14
AV	15.7218G	43.61	54.00	-10.39	31.33	3	Vertical	206	2.64	-	38.39	9.03	35.14

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

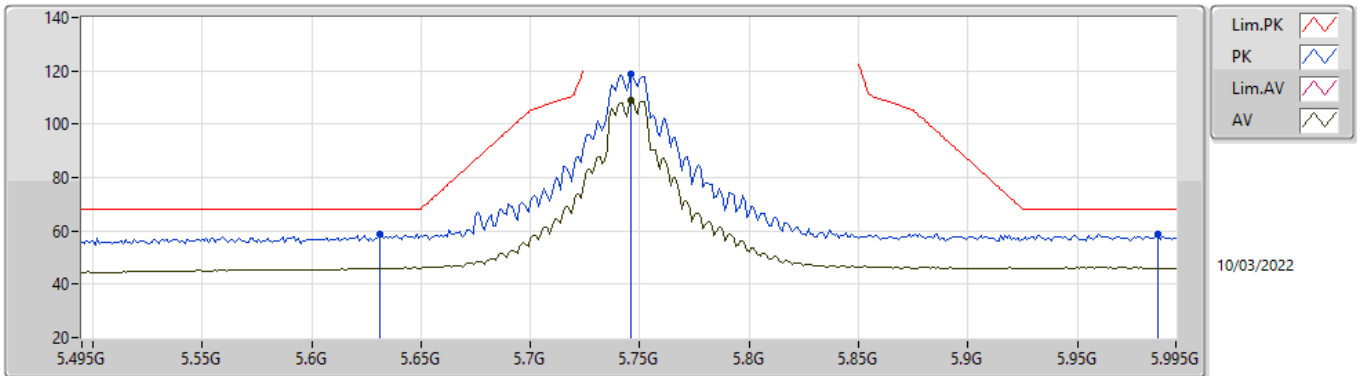


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47748G	54.55	68.20	-13.65	41.57	3	Horizontal	328	2.39	-	39.15	7.93	34.10
PK	15.72316G	56.13	74.00	-17.87	43.85	3	Horizontal	205	2.37	-	38.39	9.03	35.14
AV	15.72412G	42.92	54.00	-11.08	30.63	3	Horizontal	205	2.37	-	38.40	9.03	35.14

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

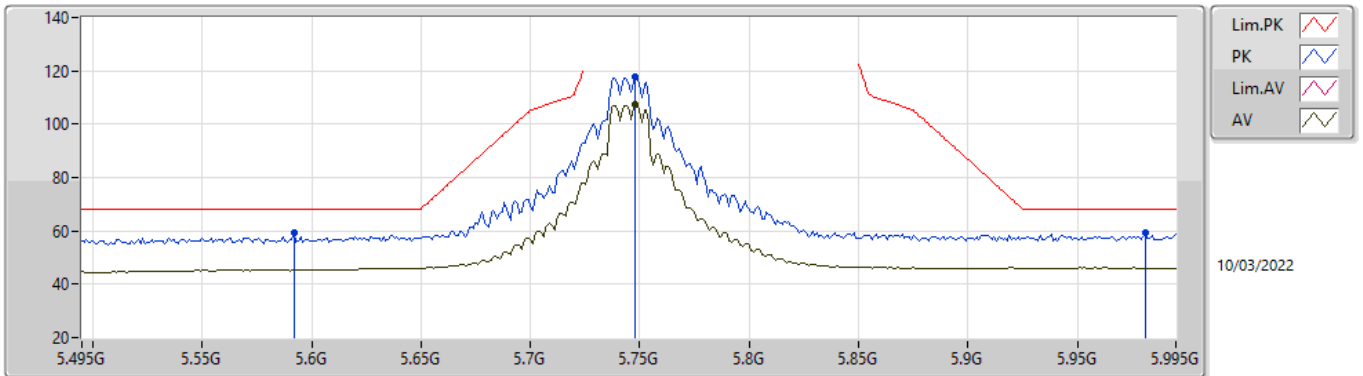


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.631G	58.74	68.20	-9.46	52.48	3	Vertical	82	2.27	-	34.19	5.30	33.23
PK	5.746G	118.88	Inf	-Inf	112.48	3	Vertical	82	2.27	-	34.38	5.30	33.28
AV	5.746G	108.89	Inf	-Inf	102.49	3	Vertical	82	2.27	-	34.38	5.30	33.28
PK	5.987G	58.72	68.20	-9.48	51.35	3	Vertical	82	2.27	-	35.35	5.39	33.37

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

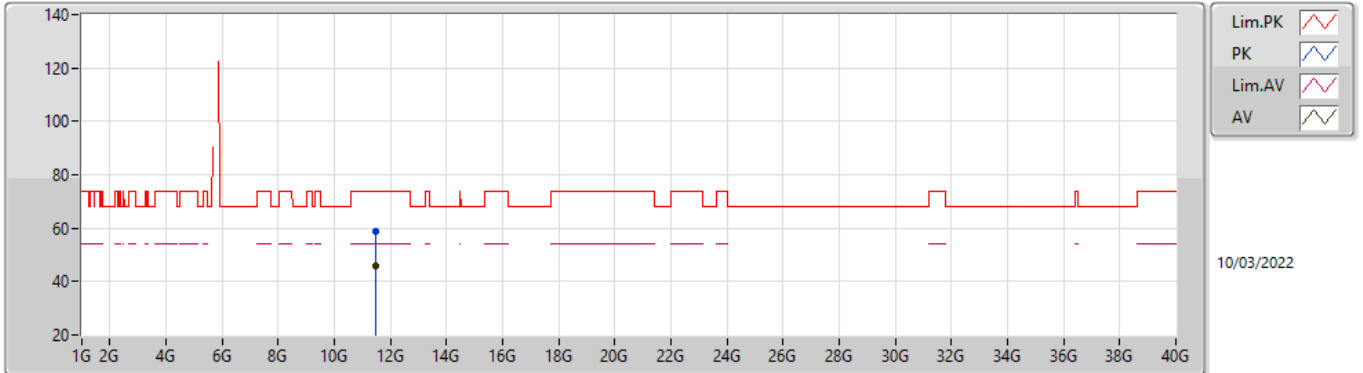


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.592G	59.12	68.20	-9.08	53.03	3	Horizontal	16	1.06	-	34.02	5.29	33.22
PK	5.748G	117.74	Inf	-Inf	111.33	3	Horizontal	16	1.06	-	34.39	5.30	33.28
AV	5.748G	107.55	Inf	-Inf	101.14	3	Horizontal	16	1.06	-	34.39	5.30	33.28
PK	5.981G	59.31	68.20	-8.89	51.97	3	Horizontal	16	1.06	-	35.32	5.39	33.37

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

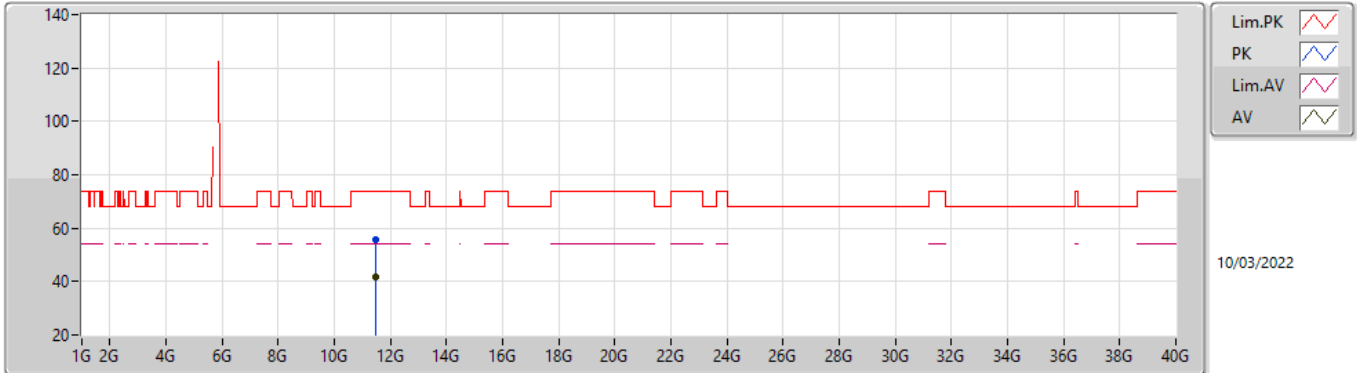


EUT X_2TX
Setting 28
04-D-C-5

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	11.48962G	58.94	74.00	-15.06	45.74	3	Vertical	315	1.00	-	39.31	8.64	34.75
AV	11.48992G	45.99	54.00	-8.01	32.79	3	Vertical	315	1.00	-	39.31	8.64	34.75

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

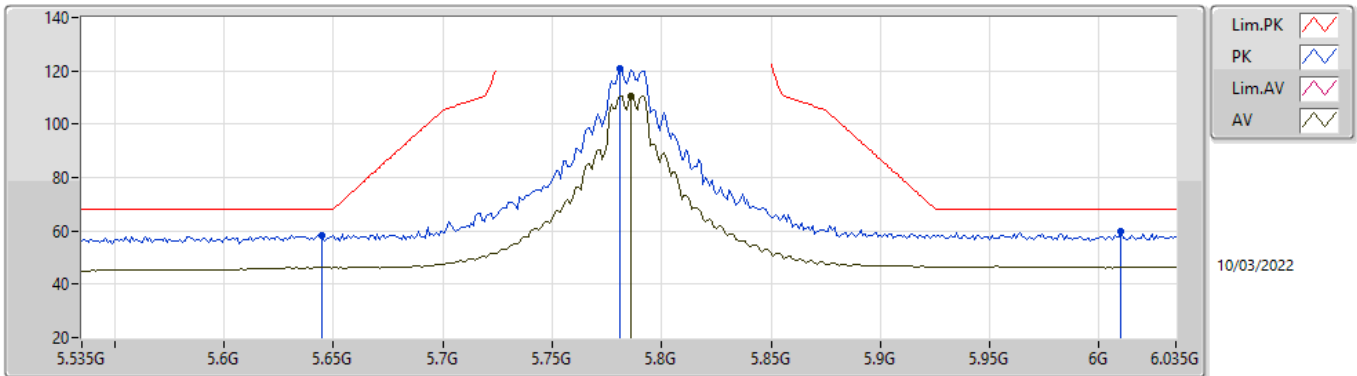


EUT X_2TX
Setting 28
04-D-C-5

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	11.48866G	55.53	74.00	-18.47	42.33	3	Horizontal	146	2.89	-	39.31	8.64	34.75
AV	11.48972G	41.77	54.00	-12.23	28.57	3	Horizontal	146	2.89	-	39.31	8.64	34.75

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

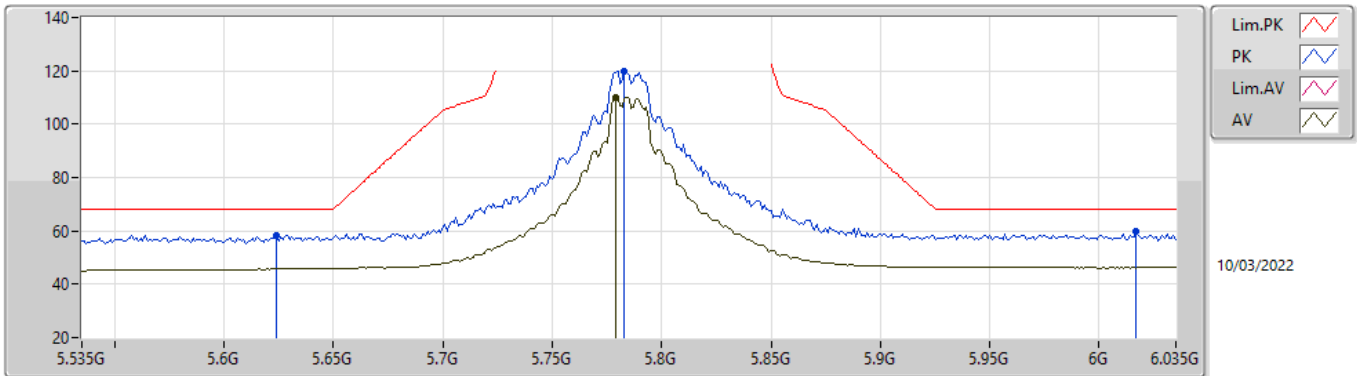


EUT_X_2TX
Setting 28
04-D-C-5-10

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	58.47	68.20	-9.73	52.14	3	Vertical	83	2.26	-	34.27	5.30	33.24
PK	5.781G	120.73	Inf	-Inf	114.26	3	Vertical	83	2.26	-	34.46	5.30	33.29
AV	5.786G	110.58	Inf	-Inf	104.10	3	Vertical	83	2.26	-	34.47	5.30	33.29
PK	6.01G	59.77	68.20	-8.43	52.33	3	Vertical	83	2.26	-	35.40	5.41	33.37

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

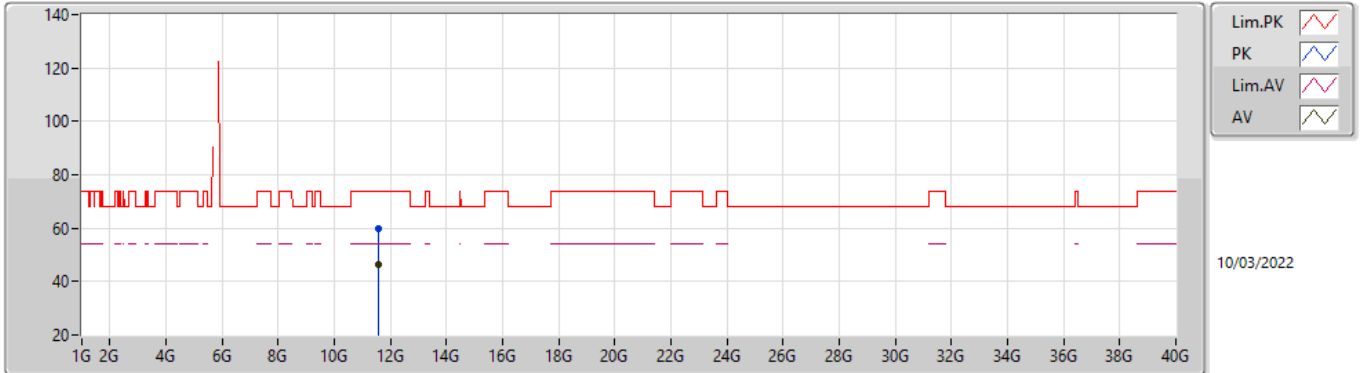


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.624G	58.37	68.20	-9.83	52.16	3	Horizontal	6	1.07	-	34.14	5.30	33.23
PK	5.783G	120.02	Inf	-Inf	113.54	3	Horizontal	6	1.07	-	34.47	5.30	33.29
AV	5.779G	109.97	Inf	-Inf	103.50	3	Horizontal	6	1.07	-	34.46	5.30	33.29
PK	6.017G	59.70	68.20	-8.50	52.25	3	Horizontal	6	1.07	-	35.40	5.42	33.37

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

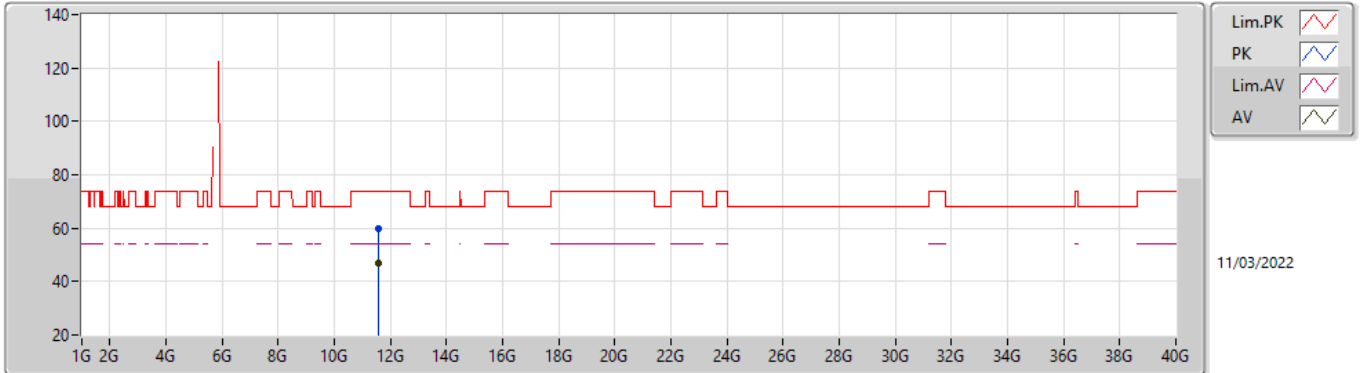


EUT_X_2TX
Setting 28
04-D-C-5

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	11.57056G	59.97	74.00	-14.03	46.76	3	Vertical	316	1.00	-	39.30	8.70	34.79
AV	11.56992G	46.61	54.00	-7.39	33.40	3	Vertical	316	1.00	-	39.30	8.70	34.79

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

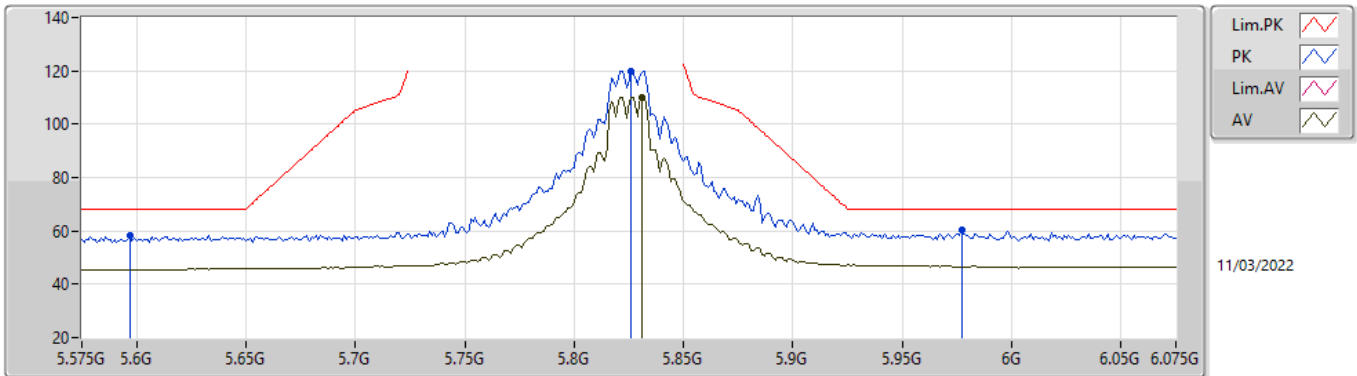


EUT_X_2TX
Setting 28
04-D-C-5

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	11.57024G	59.60	74.00	-14.40	46.39	3	Horizontal	314	1.01	-	39.30	8.70	34.79
AV	11.56996G	46.65	54.00	-7.35	33.44	3	Horizontal	314	1.01	-	39.30	8.70	34.79

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

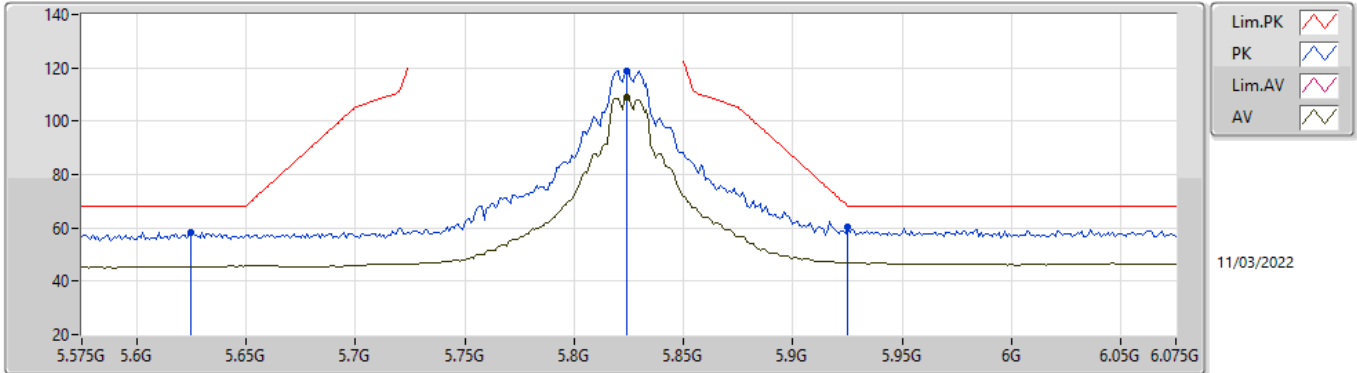


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.597G	58.04	68.20	-10.16	51.95	3	Vertical	81	2.56	-	34.01	5.30	33.22
PK	5.826G	119.88	Inf	-Inf	113.22	3	Vertical	81	2.56	-	34.66	5.31	33.31
AV	5.831G	110.23	Inf	-Inf	103.53	3	Vertical	81	2.56	-	34.69	5.32	33.31
PK	5.977G	60.20	68.20	-8.00	52.87	3	Vertical	81	2.56	-	35.31	5.39	33.37

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

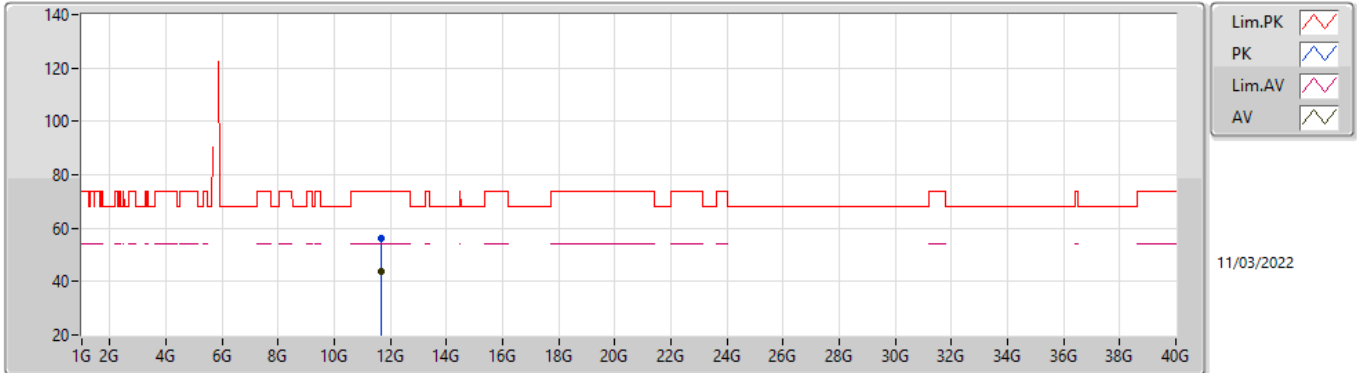


EUT X_2TX
Setting 28
04-D-C-5-10

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	5.625G	58.51	68.20	-9.69	52.29	3	Horizontal	5	1.25	-	34.15	5.30	33.23
PK	5.824G	118.91	Inf	-Inf	112.27	3	Horizontal	5	1.25	-	34.64	5.31	33.31
AV	5.824G	108.94	Inf	-Inf	102.30	3	Horizontal	5	1.25	-	34.64	5.31	33.31
PK	5.925G	60.31	68.20	-7.89	53.25	3	Horizontal	5	1.25	-	35.05	5.36	33.35

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

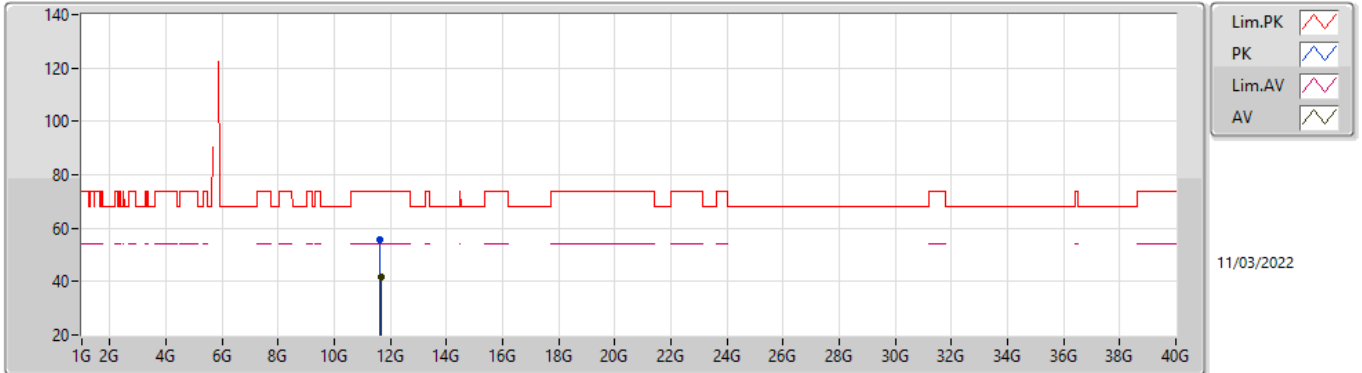


EUT X_2TX
Setting 28
04-D-C-5

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	11.65462G	56.04	74.00	-17.96	42.85	3	Vertical	330	2.82	-	39.25	8.76	34.82
AV	11.64996G	43.66	54.00	-10.34	30.48	3	Vertical	330	2.82	-	39.25	8.75	34.82

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

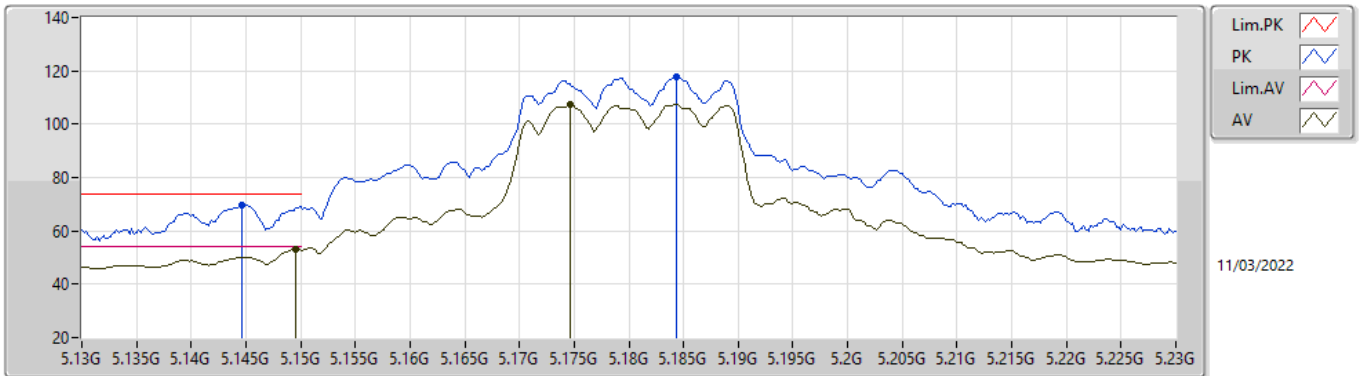


EUT X_2TX
Setting 28
04-D-C-5

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	11.64516G	55.57	74.00	-18.43	42.39	3	Horizontal	320	1.01	-	39.25	8.75	34.82
AV	11.65002G	41.85	54.00	-12.15	28.66	3	Horizontal	320	1.01	-	39.25	8.76	34.82

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

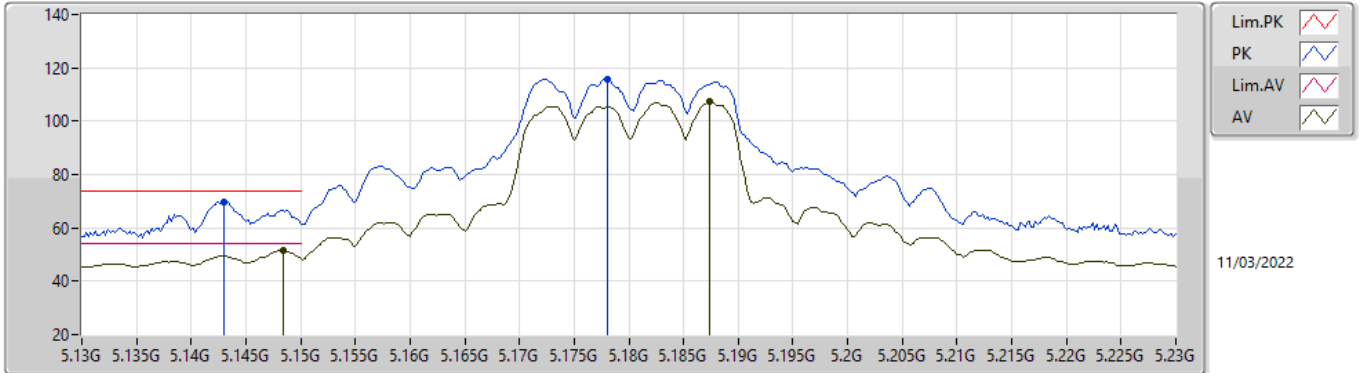


EUT_X_2TX
Setting 24
04-D-C-5-10

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	5.1446G	69.77	74.00	-4.23	64.98	3	Vertical	93	2.71	-	32.92	5.04	33.17
AV	5.1496G	52.91	54.00	-1.09	48.13	3	Vertical	93	2.71	-	32.90	5.05	33.17
PK	5.1844G	117.98	Inf	-Inf	113.10	3	Vertical	93	2.71	-	32.97	5.08	33.17
AV	5.1746G	107.29	Inf	-Inf	102.44	3	Vertical	93	2.71	-	32.95	5.07	33.17

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

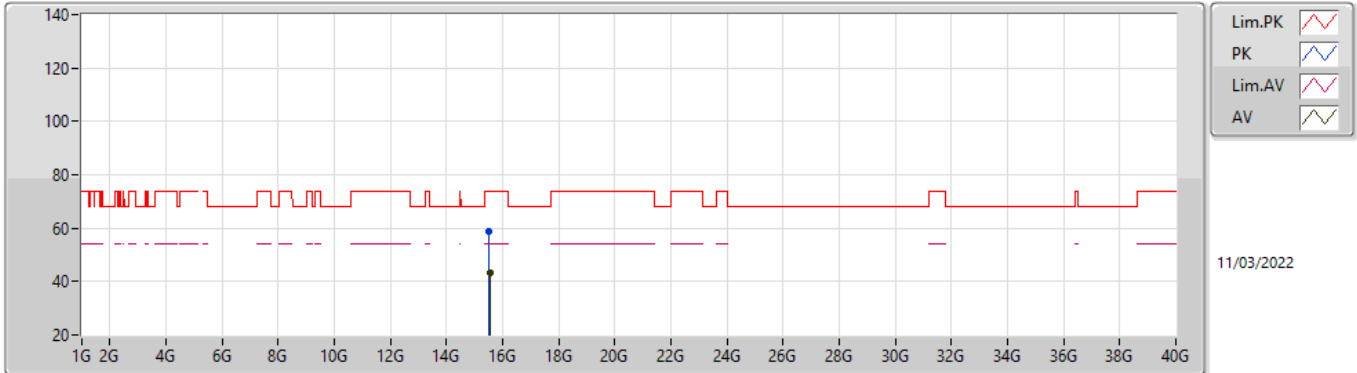


EUT_X_2TX
Setting 24
04-D-C-5-10

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	5.143G	69.79	74.00	-4.21	64.99	3	Horizontal	0	1.02	-	32.93	5.04	33.17
AV	5.1484G	51.55	54.00	-2.45	46.76	3	Horizontal	0	1.02	-	32.91	5.05	33.17
PK	5.178G	115.72	Inf	-Inf	110.85	3	Horizontal	0	1.02	-	32.96	5.08	33.17
AV	5.1874G	107.34	Inf	-Inf	102.45	3	Horizontal	0	1.02	-	32.97	5.09	33.17

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

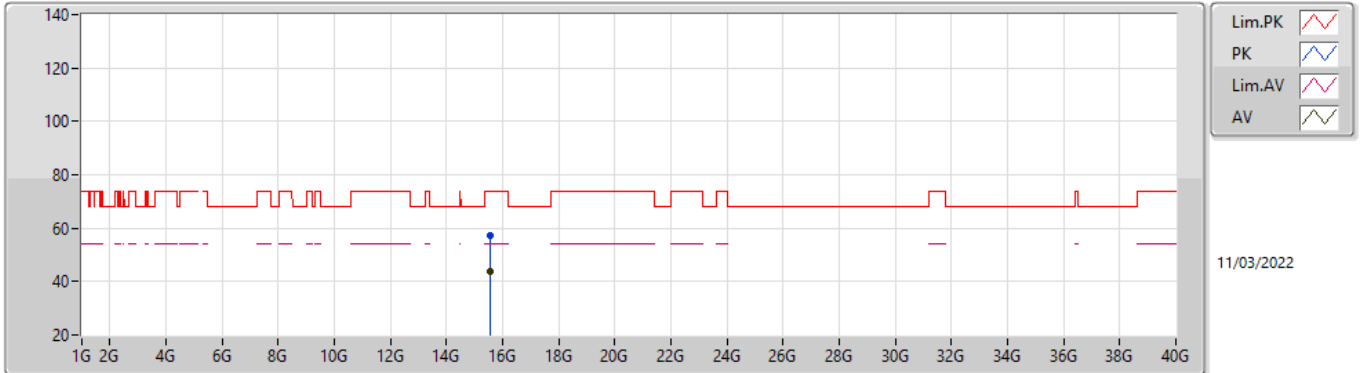


EUT_X_2TX
Setting 24
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.5324G	58.64	74.00	-15.36	45.92	3	Vertical	140	1.81	-	38.87	8.98	35.13
AV	15.5374G	43.02	54.00	-10.98	30.32	3	Vertical	140	1.81	-	38.85	8.98	35.13

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

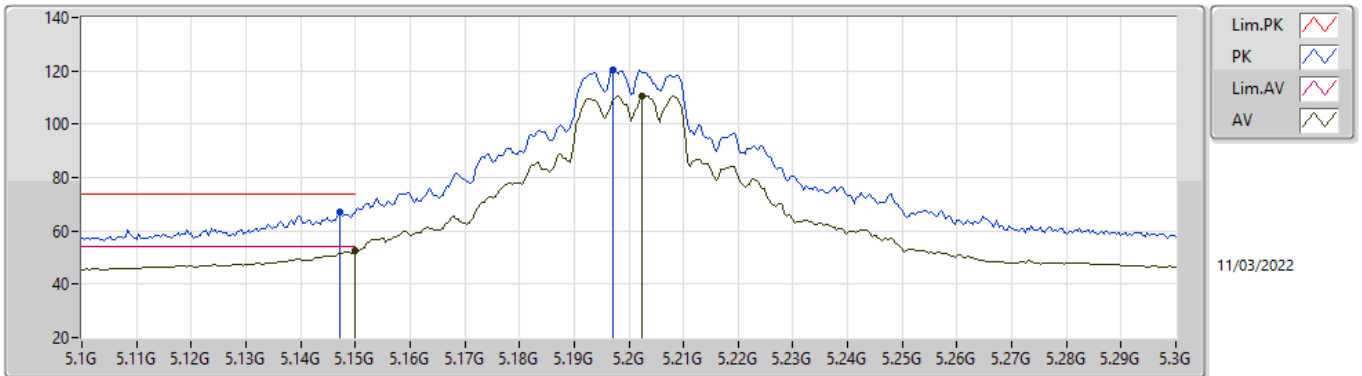


EUT_X_2TX
Setting 24
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.5376G	57.34	74.00	-16.66	44.64	3	Horizontal	177	1.20	-	38.85	8.98	35.13
AV	15.5378G	43.72	54.00	-10.28	31.02	3	Horizontal	177	1.20	-	38.85	8.98	35.13

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

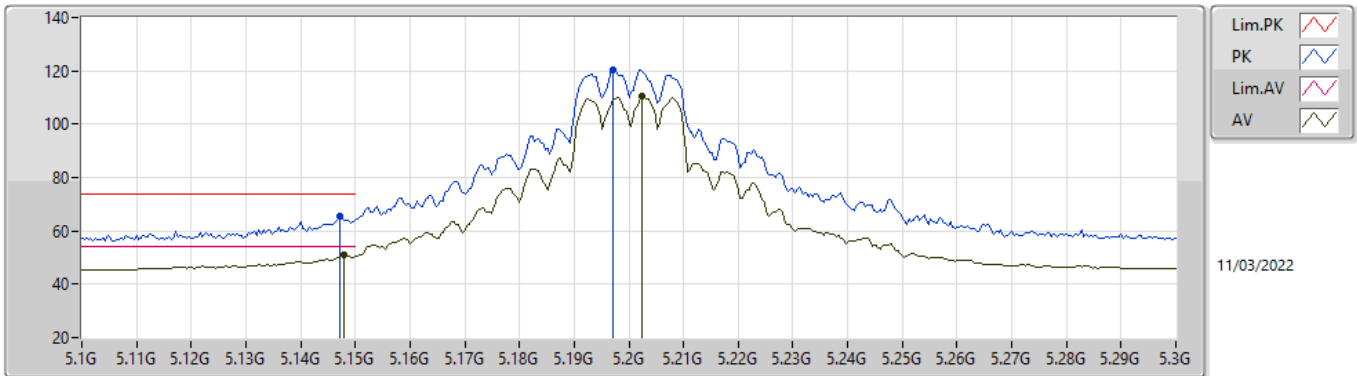


EUTX_2TX
Setting 27.5
04-D-C-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1472G	67.07	74.00	-6.93	62.28	3	Vertical	100	2.79	-	32.91	5.05	33.17
AV	5.15G	52.71	54.00	-1.29	47.93	3	Vertical	100	2.79	-	32.90	5.05	33.17
PK	5.1972G	120.36	Inf	-Inf	115.44	3	Vertical	100	2.79	-	32.99	5.10	33.17
AV	5.2024G	110.62	Inf	-Inf	105.69	3	Vertical	100	2.79	-	33.00	5.10	33.17

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

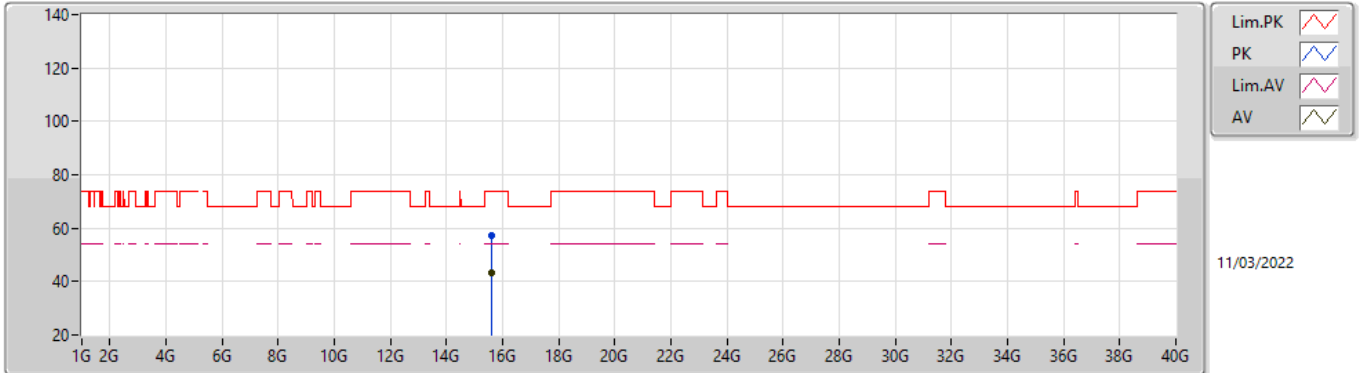


EUTX_2TX
Setting 27.5
04-D-C-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1472G	65.56	74.00	-8.44	60.77	3	Horizontal	358	1.00	-	32.91	5.05	33.17
AV	5.148G	51.00	54.00	-3.00	46.21	3	Horizontal	358	1.00	-	32.91	5.05	33.17
PK	5.1972G	120.40	Inf	-Inf	115.48	3	Horizontal	358	1.00	-	32.99	5.10	33.17
AV	5.2024G	110.30	Inf	-Inf	105.37	3	Horizontal	358	1.00	-	33.00	5.10	33.17

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

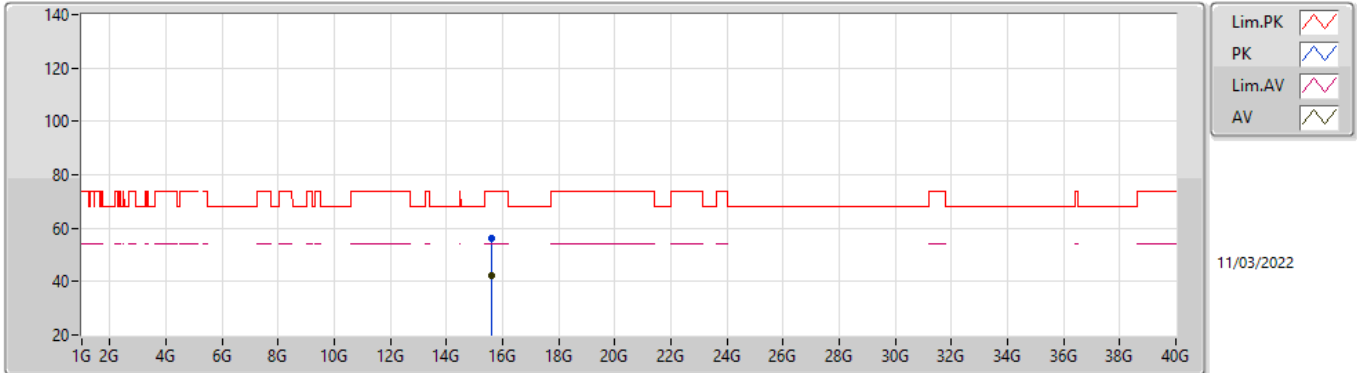


EUT X_2TX
Setting 27.5
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.6048G	57.48	74.00	-16.52	45.03	3	Vertical	61	2.00	-	38.59	9.00	35.14
AV	15.5972G	43.30	54.00	-10.70	30.83	3	Vertical	61	2.00	-	38.61	9.00	35.14

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

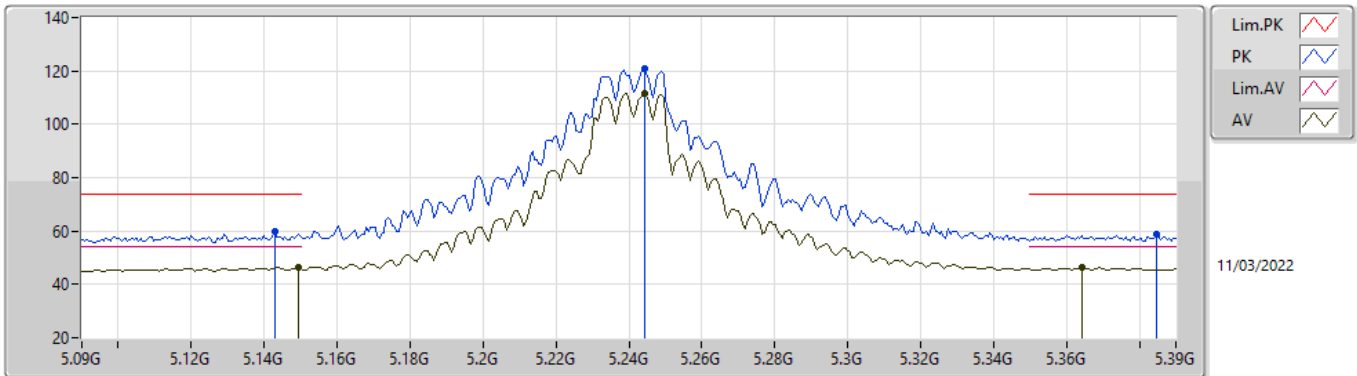


EUT X_2TX
Setting 27.5
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.5976G	56.17	74.00	-17.83	43.70	3	Horizontal	346	1.03	-	38.61	9.00	35.14
AV	15.5976G	42.25	54.00	-11.75	29.78	3	Horizontal	346	1.03	-	38.61	9.00	35.14

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

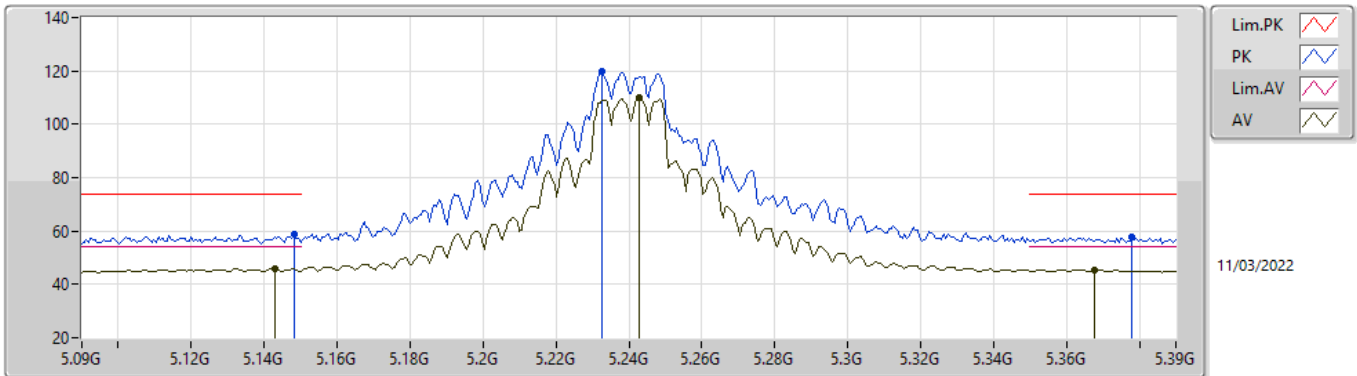


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.1428G	59.74	74.00	-14.26	54.94	3	Vertical	95	2.95	-	32.93	5.04	33.17
AV	5.1494G	46.23	54.00	-7.77	41.45	3	Vertical	95	2.95	-	32.90	5.05	33.17
PK	5.2442G	120.64	Inf	-Inf	115.71	3	Vertical	95	2.95	-	33.00	5.10	33.17
AV	5.2442G	111.72	Inf	-Inf	106.79	3	Vertical	95	2.95	-	33.00	5.10	33.17
PK	5.3846G	58.84	74.00	-15.16	53.61	3	Vertical	95	2.95	-	33.31	5.10	33.18
AV	5.3642G	46.42	54.00	-7.58	41.30	3	Vertical	95	2.95	-	33.19	5.10	33.17

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

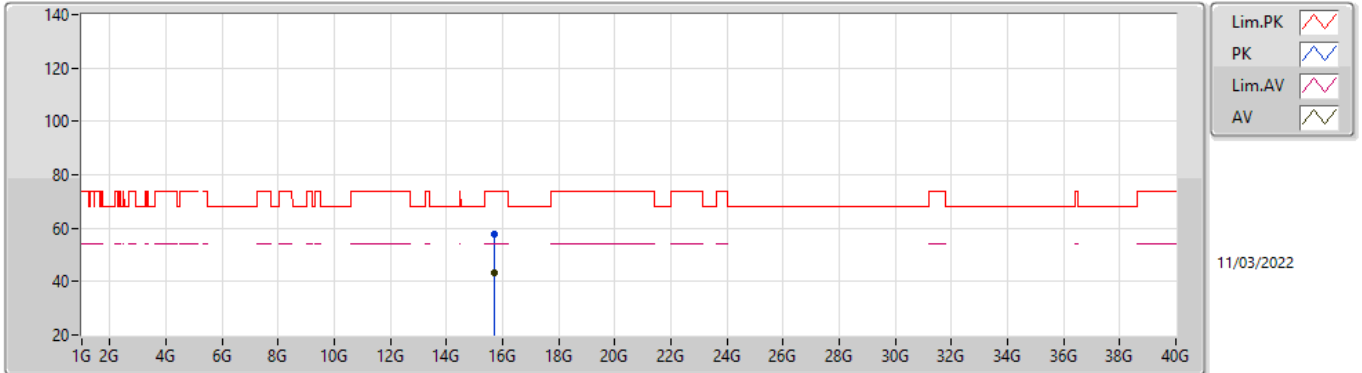


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.1482G	58.70	74.00	-15.30	53.91	3	Horizontal	360	1.06	-	32.91	5.05	33.17
AV	5.1428G	45.82	54.00	-8.18	41.02	3	Horizontal	360	1.06	-	32.93	5.04	33.17
PK	5.2328G	119.67	Inf	-Inf	114.74	3	Horizontal	360	1.06	-	33.00	5.10	33.17
AV	5.243G	110.13	Inf	-Inf	105.20	3	Horizontal	360	1.06	-	33.00	5.10	33.17
PK	5.378G	57.71	74.00	-16.29	52.52	3	Horizontal	360	1.06	-	33.27	5.10	33.18
AV	5.3678G	45.52	54.00	-8.48	40.38	3	Horizontal	360	1.06	-	33.21	5.10	33.17

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

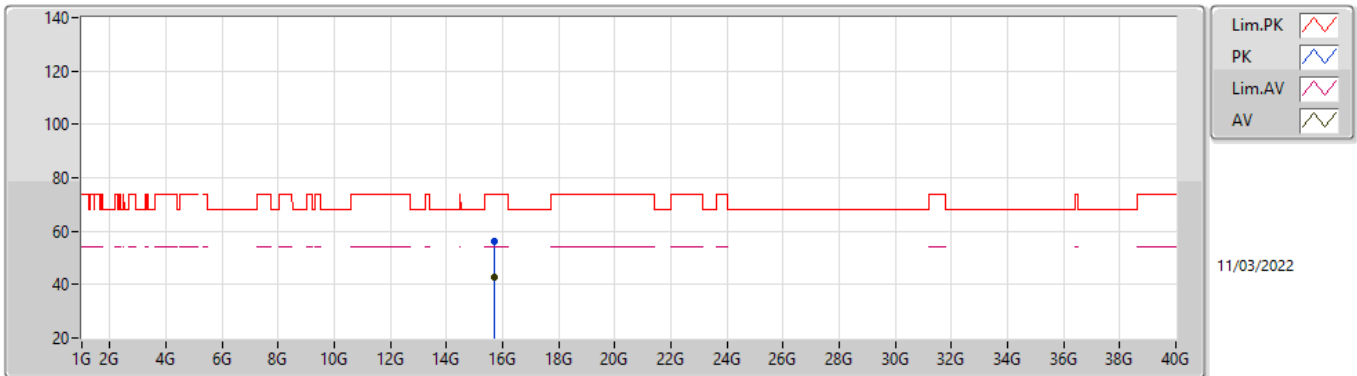


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.723G	57.84	74.00	-16.16	45.56	3	Vertical	315	1.84	-	38.39	9.03	35.14
AV	15.723G	43.50	54.00	-10.50	31.22	3	Vertical	315	1.84	-	38.39	9.03	35.14

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

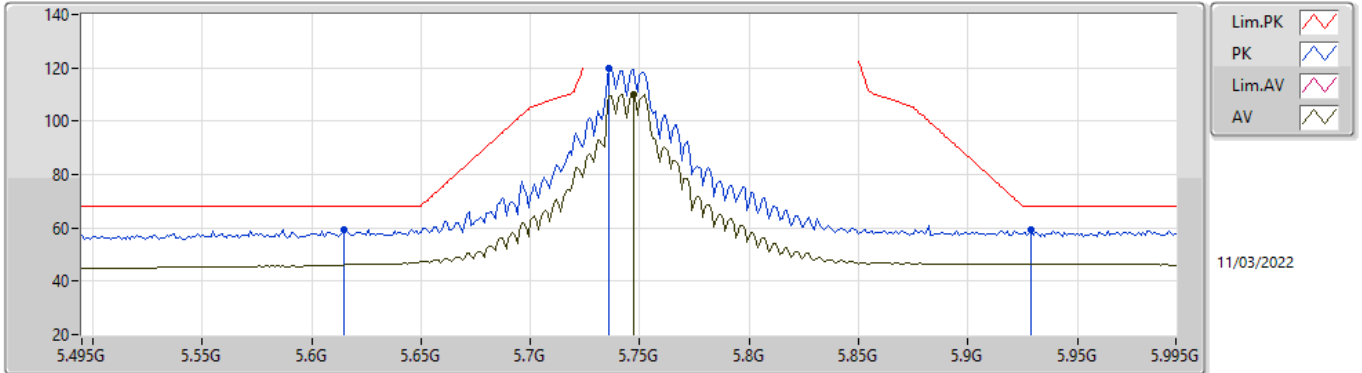


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.72284G	56.34	74.00	-17.66	44.06	3	Horizontal	145	1.78	-	38.39	9.03	35.14
AV	15.72314G	42.74	54.00	-11.26	30.46	3	Horizontal	145	1.78	-	38.39	9.03	35.14

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

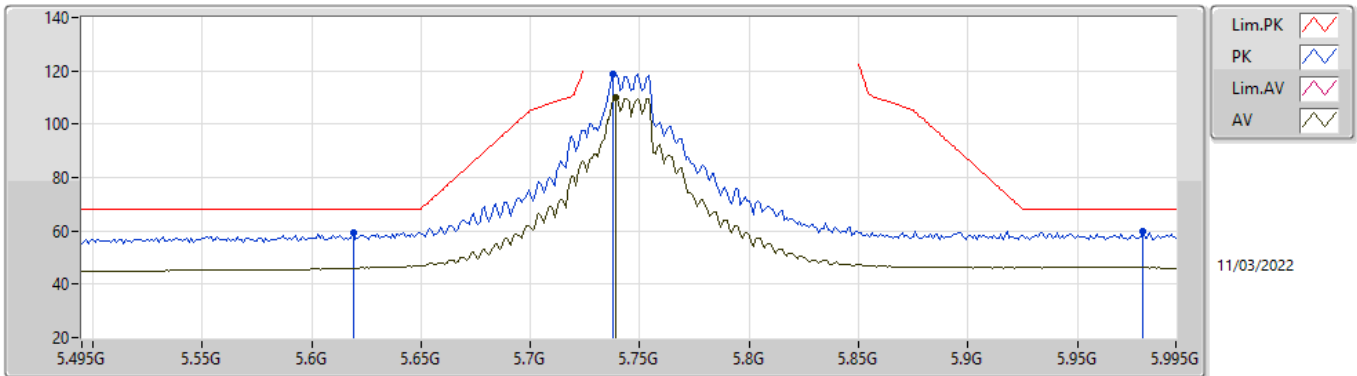


EUTX_2TX
Setting 28
04-D-C-5-10

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	5.615G	59.44	68.20	-8.76	53.28	3	Vertical	82	2.90	-	34.09	5.30	33.23
PK	5.736G	119.65	Inf	-Inf	113.28	3	Vertical	82	2.90	-	34.34	5.30	33.27
AV	5.747G	110.08	Inf	-Inf	103.67	3	Vertical	82	2.90	-	34.39	5.30	33.28
PK	5.929G	59.37	68.20	-8.83	52.29	3	Vertical	82	2.90	-	35.07	5.36	33.35

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

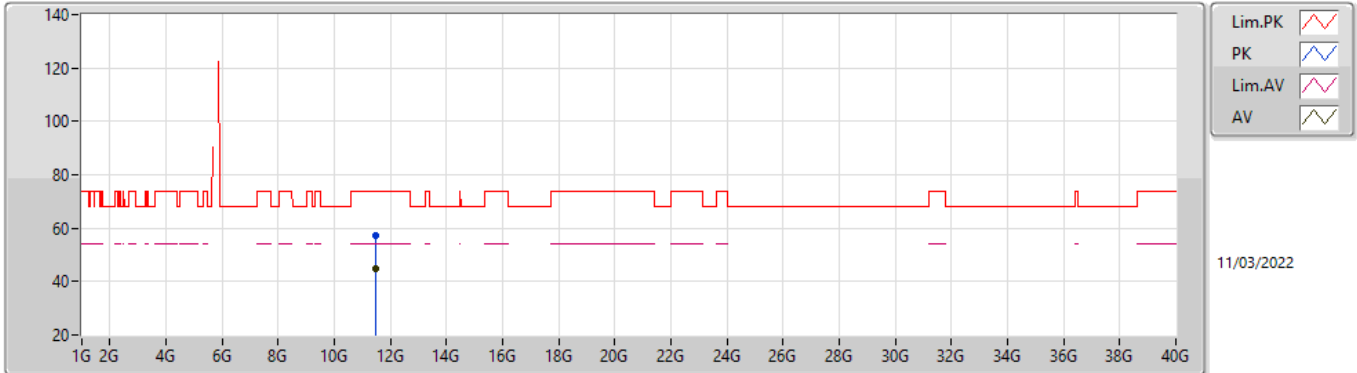


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.619G	59.46	68.20	-8.74	53.28	3	Horizontal	7	1.00	-	34.11	5.30	33.23
PK	5.738G	118.96	Inf	-Inf	112.59	3	Horizontal	7	1.00	-	34.35	5.30	33.28
AV	5.739G	109.75	Inf	-Inf	103.37	3	Horizontal	7	1.00	-	34.36	5.30	33.28
PK	5.98G	59.80	68.20	-8.40	52.46	3	Horizontal	7	1.00	-	35.32	5.39	33.37

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

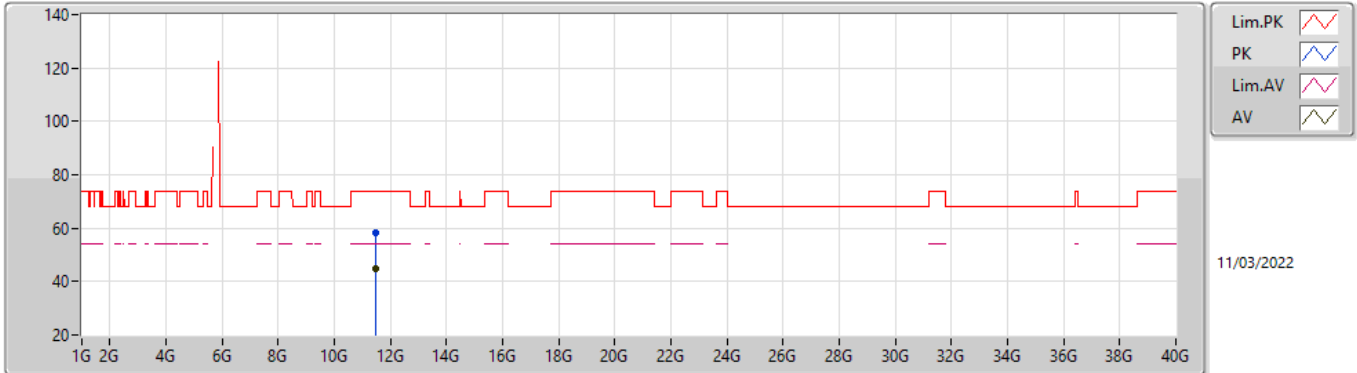


EUT_X_2TX
Setting 28
04-D-C-5

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	11.48836G	57.02	74.00	-16.98	43.82	3	Vertical	249	1.00	-	39.31	8.64	34.75
AV	11.48818G	44.80	54.00	-9.20	31.60	3	Vertical	249	1.00	-	39.31	8.64	34.75

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

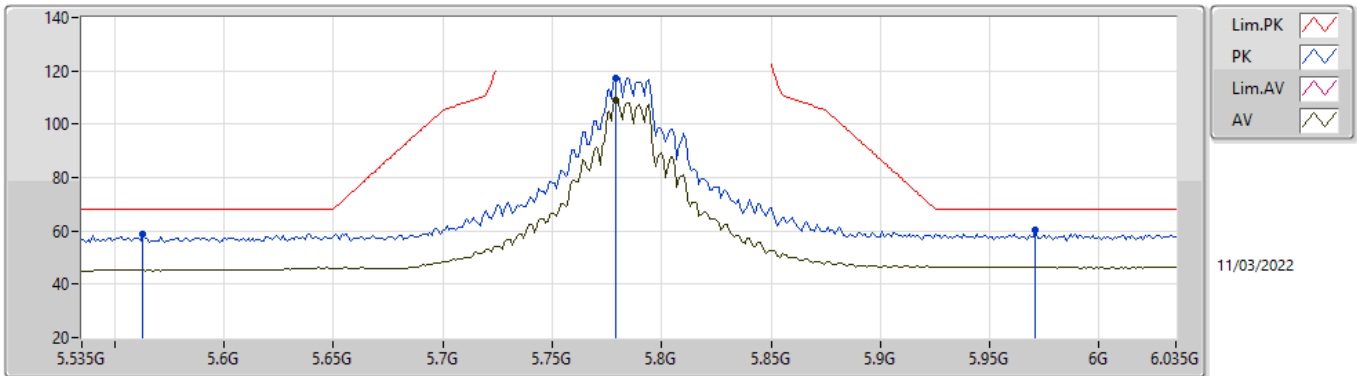


EUT_X_2TX
Setting 28
04-D-C-5

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	11.4935G	58.53	74.00	-15.47	45.33	3	Horizontal	249	1.01	-	39.31	8.65	34.76
AV	11.48834G	44.78	54.00	-9.22	31.58	3	Horizontal	249	1.01	-	39.31	8.64	34.75

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

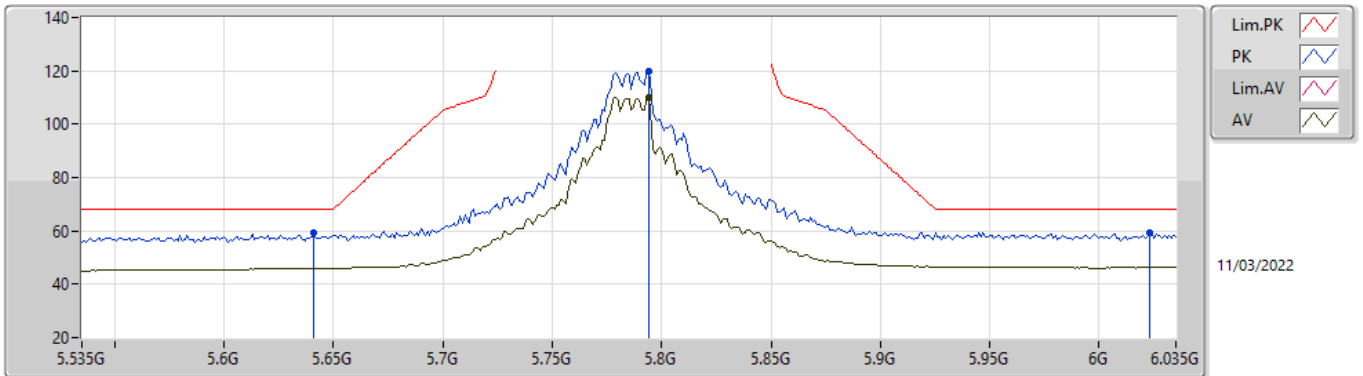


EUT_X_2TX
Setting 28
04-D-C-5-10

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	5.563G	58.72	68.20	-9.48	52.60	3	Vertical	273	1.23	-	34.07	5.26	33.21
PK	5.779G	117.50	Inf	-Inf	111.03	3	Vertical	273	1.23	-	34.46	5.30	33.29
AV	5.779G	109.02	Inf	-Inf	102.55	3	Vertical	273	1.23	-	34.46	5.30	33.29
PK	5.971G	60.14	68.20	-8.06	52.84	3	Vertical	273	1.23	-	35.28	5.39	33.37

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

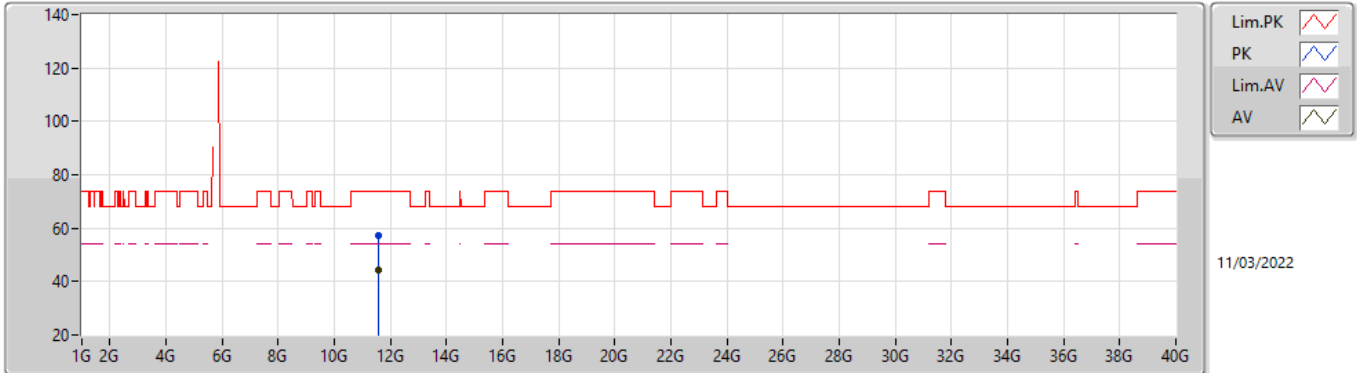


EUTX_2TX
Setting 28
04-D-C-5-10

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	5.641G	59.37	68.20	-8.83	53.06	3	Horizontal	6	1.03	-	34.25	5.30	33.24
PK	5.794G	119.64	Inf	-Inf	113.15	3	Horizontal	6	1.03	-	34.49	5.30	33.30
AV	5.794G	110.20	Inf	-Inf	103.71	3	Horizontal	6	1.03	-	34.49	5.30	33.30
PK	6.023G	59.30	68.20	-8.90	51.84	3	Horizontal	6	1.03	-	35.40	5.42	33.36

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

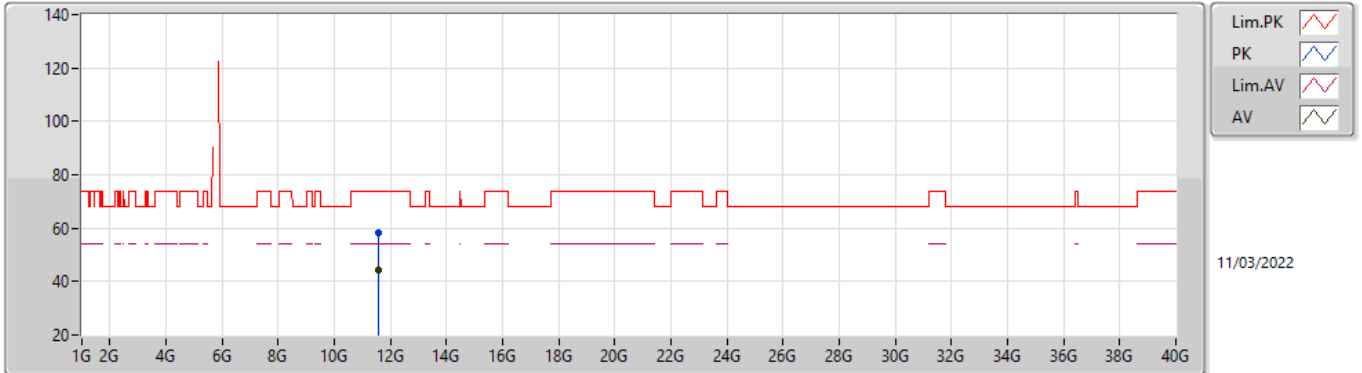


EUT_X_2TX
Setting 28
04-D-C-5

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	11.56756G	57.15	74.00	-16.85	43.94	3	Vertical	172	1.59	-	39.30	8.70	34.79
AV	11.56774G	44.20	54.00	-9.80	30.99	3	Vertical	172	1.59	-	39.30	8.70	34.79

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

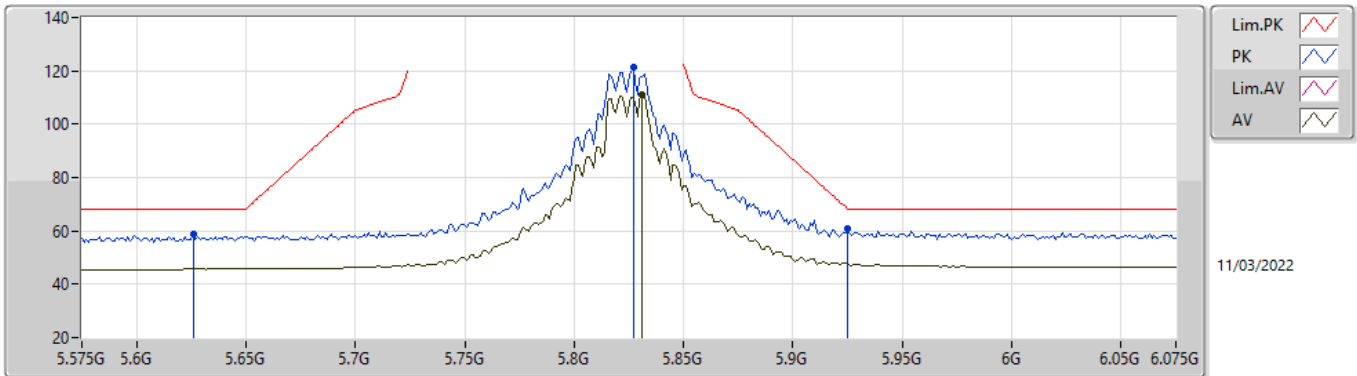


EUT_X_2TX
Setting 28
04-D-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5676G	58.02	74.00	-15.98	44.81	3	Horizontal	348	1.77	-	39.30	8.70	34.79
AV	11.56774G	44.27	54.00	-9.73	31.06	3	Horizontal	348	1.77	-	39.30	8.70	34.79

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

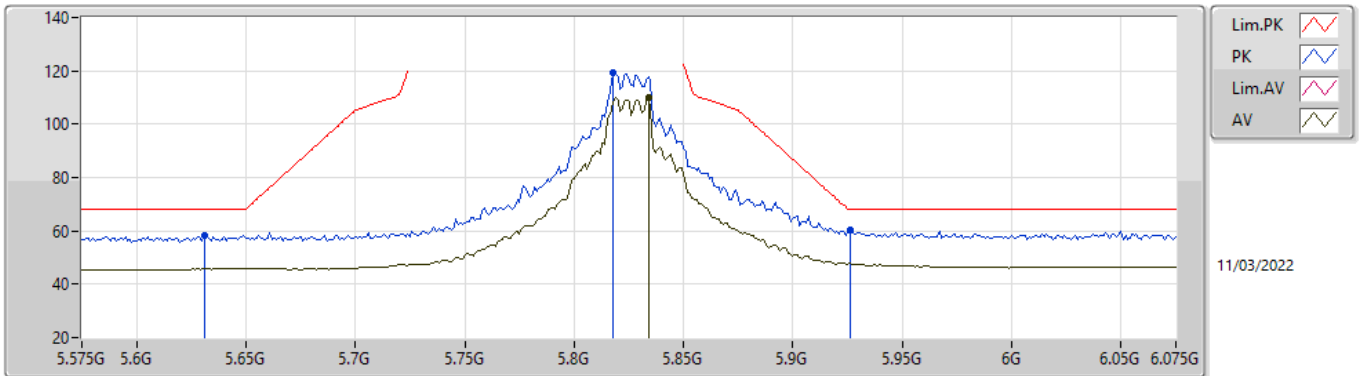


EUTX_2TX
Setting 28
04-D-C-5-10

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	5.626G	58.66	68.20	-9.54	52.43	3	Vertical	82	2.72	-	34.16	5.30	33.23
PK	5.827G	121.31	Inf	-Inf	114.65	3	Vertical	82	2.72	-	34.66	5.31	33.31
AV	5.831G	110.86	Inf	-Inf	104.16	3	Vertical	82	2.72	-	34.69	5.32	33.31
PK	5.925G	60.86	68.20	-7.34	53.80	3	Vertical	82	2.72	-	35.05	5.36	33.35

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

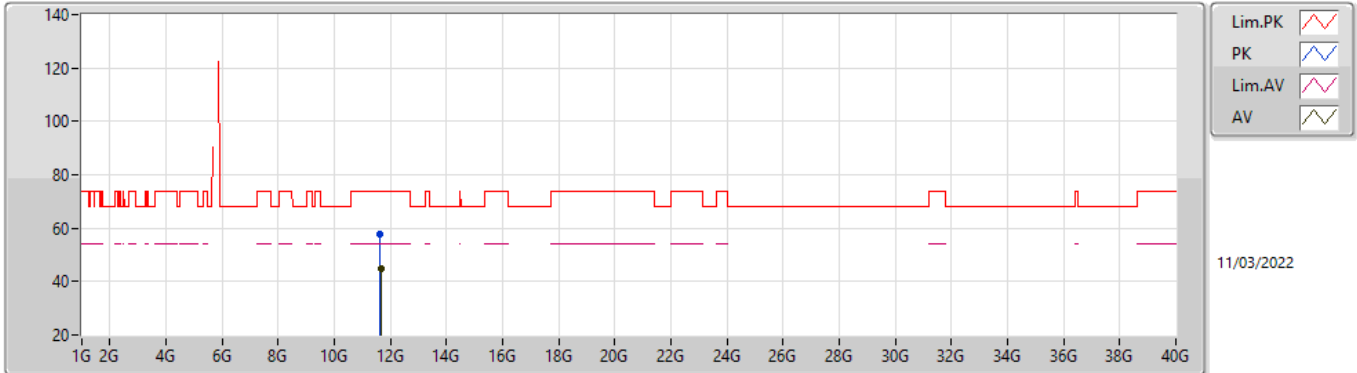


EUT X_2TX
Setting 28
04-D-C-5-10

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	5.631G	58.14	68.20	-10.06	51.88	3	Horizontal	9	1.00	-	34.19	5.30	33.23
PK	5.818G	119.22	Inf	-Inf	112.61	3	Horizontal	9	1.00	-	34.61	5.31	33.31
AV	5.834G	109.93	Inf	-Inf	103.22	3	Horizontal	9	1.00	-	34.70	5.32	33.31
PK	5.926G	60.23	68.20	-7.97	53.16	3	Horizontal	9	1.00	-	35.06	5.36	33.35

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

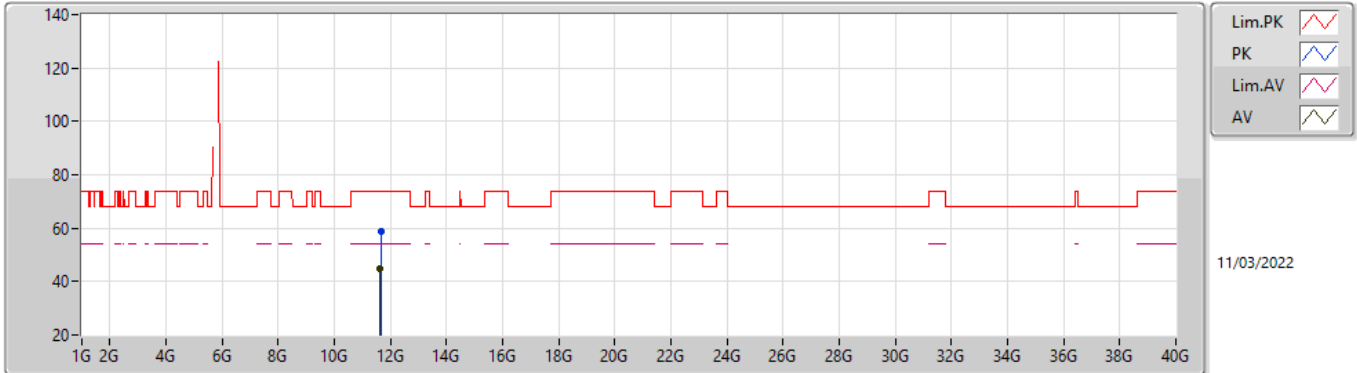


EUT_X_2TX
Setting 28
04-D-C-5

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	11.6465G	57.77	74.00	-16.23	44.59	3	Vertical	161	1.04	-	39.25	8.75	34.82
AV	11.65466G	44.70	54.00	-9.30	31.51	3	Vertical	161	1.04	-	39.25	8.76	34.82

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

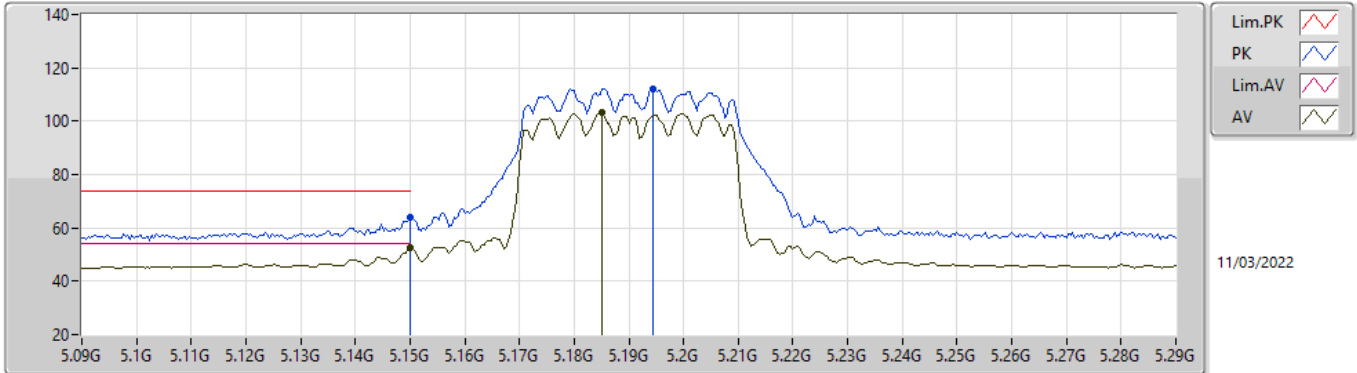


EUT_X_2TX
Setting 28
04-D-C-5

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	11.65186G	58.54	74.00	-15.46	45.35	3	Horizontal	64	2.36	-	39.25	8.76	34.82
AV	11.64648G	44.98	54.00	-9.02	31.80	3	Horizontal	64	2.36	-	39.25	8.75	34.82

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

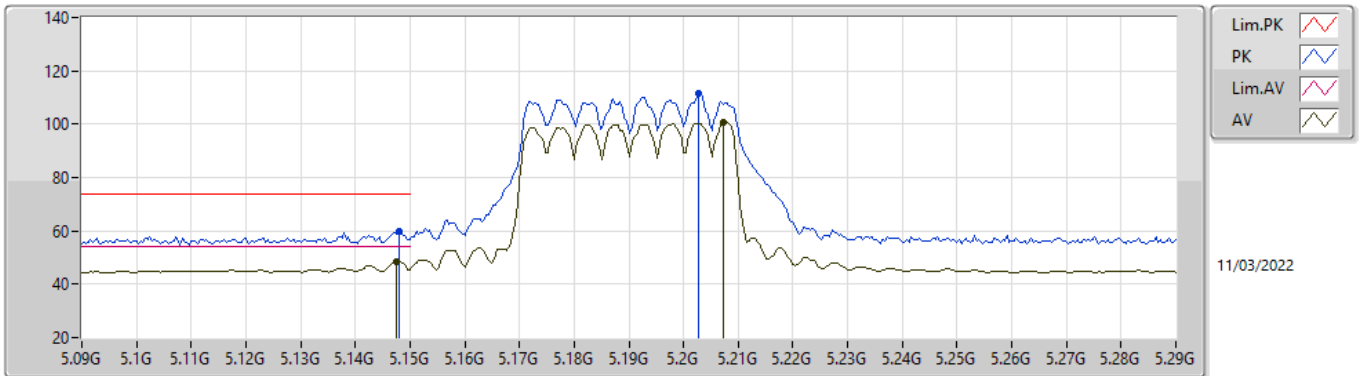


EUT_X_2TX
Setting 20
04-D-S-8-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	63.85	74.00	-10.15	59.07	3	Vertical	90	2.73	-	32.90	5.05	33.17
AV	5.15G	52.38	54.00	-1.62	47.60	3	Vertical	90	2.73	-	32.90	5.05	33.17
PK	5.1944G	112.08	Inf	-Inf	107.17	3	Vertical	90	2.73	-	32.99	5.09	33.17
AV	5.1852G	103.07	Inf	-Inf	98.18	3	Vertical	90	2.73	-	32.97	5.09	33.17

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

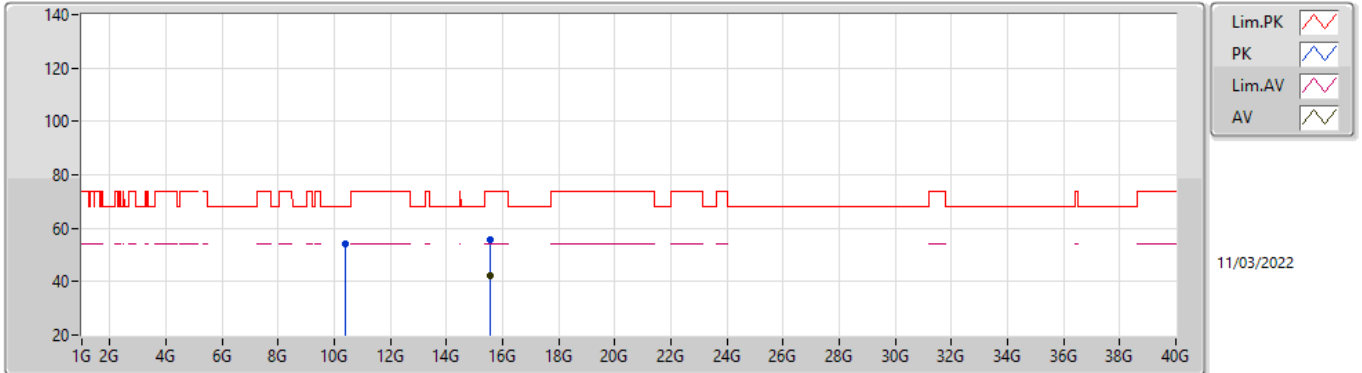


EUTX_2TX
Setting 20
04-D-S-8-10

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	5.148G	59.60	74.00	-14.40	54.81	3	Horizontal	0	2.42	-	32.91	5.05	33.17
AV	5.1476G	48.28	54.00	-5.72	43.49	3	Horizontal	0	2.42	-	32.91	5.05	33.17
PK	5.2028G	111.59	Inf	-Inf	106.66	3	Horizontal	0	2.42	-	33.00	5.10	33.17
AV	5.2072G	100.82	Inf	-Inf	95.89	3	Horizontal	0	2.42	-	33.00	5.10	33.17

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

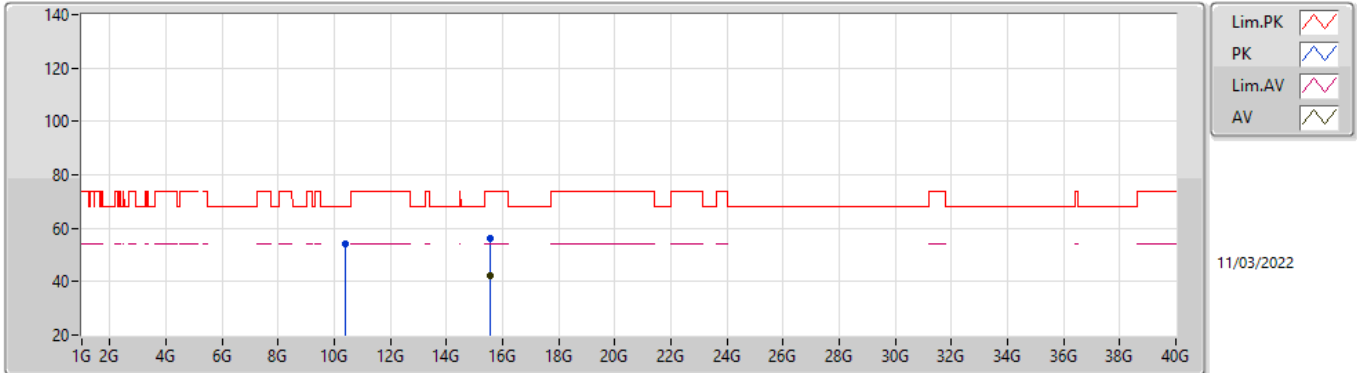


EUT_X_2TX
Setting 20
04-D-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.37736G	54.29	68.20	-13.91	41.45	3	Vertical	168	1.04	-	38.98	7.86	34.00
PK	15.56806G	55.80	74.00	-18.20	43.21	3	Vertical	345	2.20	-	38.73	8.99	35.13
AV	15.57466G	42.32	54.00	-11.68	29.76	3	Vertical	345	2.20	-	38.70	8.99	35.13

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

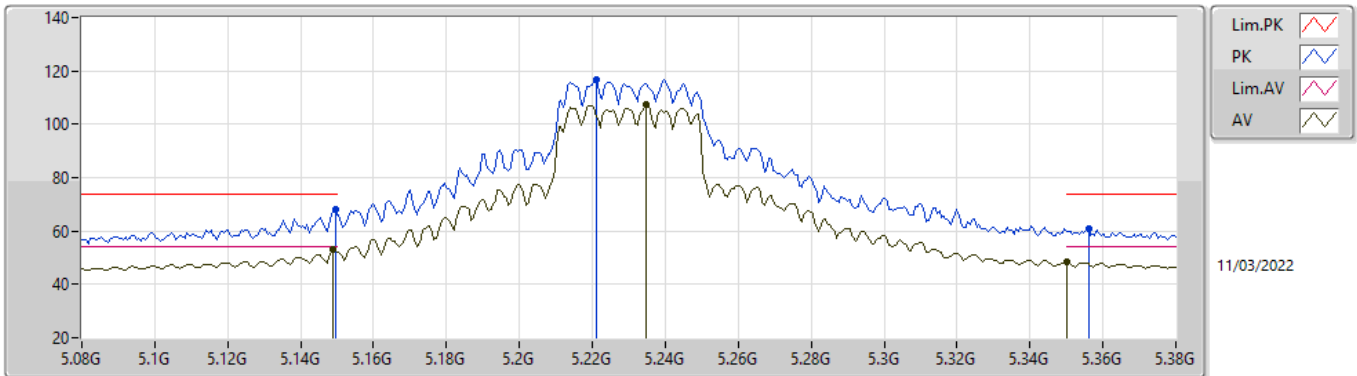


EUT_X_2TX
Setting 20
04-D-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.37984G	54.18	68.20	-14.02	41.33	3	Horizontal	292	2.70	-	38.98	7.87	34.00
PK	15.57022G	55.95	74.00	-18.05	43.37	3	Horizontal	137	1.80	-	38.72	8.99	35.13
AV	15.56844G	42.25	54.00	-11.75	29.66	3	Horizontal	137	1.80	-	38.73	8.99	35.13

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

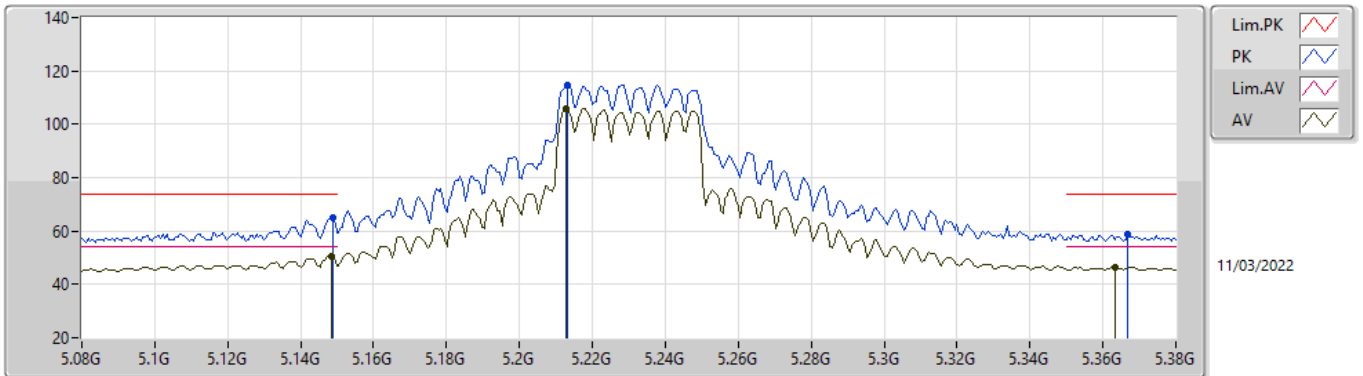


EUT_X_2TX
Setting 25.5
04-D-S-8-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	68.00	74.00	-6.00	63.22	3	Vertical	92	2.72	-	32.90	5.05	33.17
AV	5.149G	52.95	54.00	-1.05	48.17	3	Vertical	92	2.72	-	32.90	5.05	33.17
PK	5.221G	116.91	Inf	-Inf	111.98	3	Vertical	92	2.72	-	33.00	5.10	33.17
AV	5.2348G	107.35	Inf	-Inf	102.42	3	Vertical	92	2.72	-	33.00	5.10	33.17
PK	5.356G	60.99	74.00	-13.01	55.92	3	Vertical	92	2.72	-	33.14	5.10	33.17
AV	5.35G	48.27	54.00	-5.73	43.24	3	Vertical	92	2.72	-	33.10	5.10	33.17

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

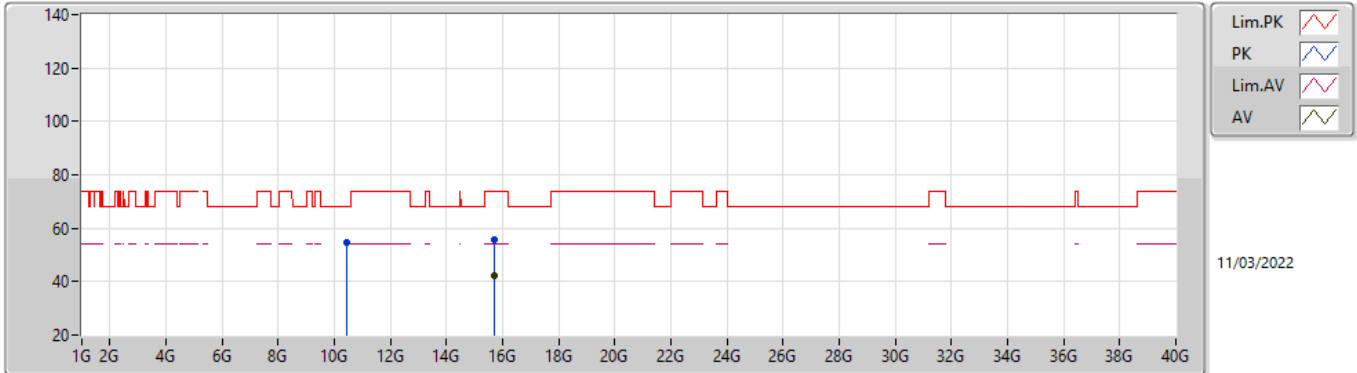


EUT_X_2TX
Setting 25.5
04-D-S-8-10

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	5.149G	64.92	74.00	-9.08	60.14	3	Horizontal	360	1.00	-	32.90	5.05	33.17
AV	5.1484G	50.73	54.00	-3.27	45.94	3	Horizontal	360	1.00	-	32.91	5.05	33.17
PK	5.2132G	114.79	Inf	-Inf	109.86	3	Horizontal	360	1.00	-	33.00	5.10	33.17
AV	5.2126G	106.00	Inf	-Inf	101.07	3	Horizontal	360	1.00	-	33.00	5.10	33.17
PK	5.3668G	58.67	74.00	-15.33	53.54	3	Horizontal	360	1.00	-	33.20	5.10	33.17
AV	5.3632G	46.31	54.00	-7.69	41.20	3	Horizontal	360	1.00	-	33.18	5.10	33.17

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

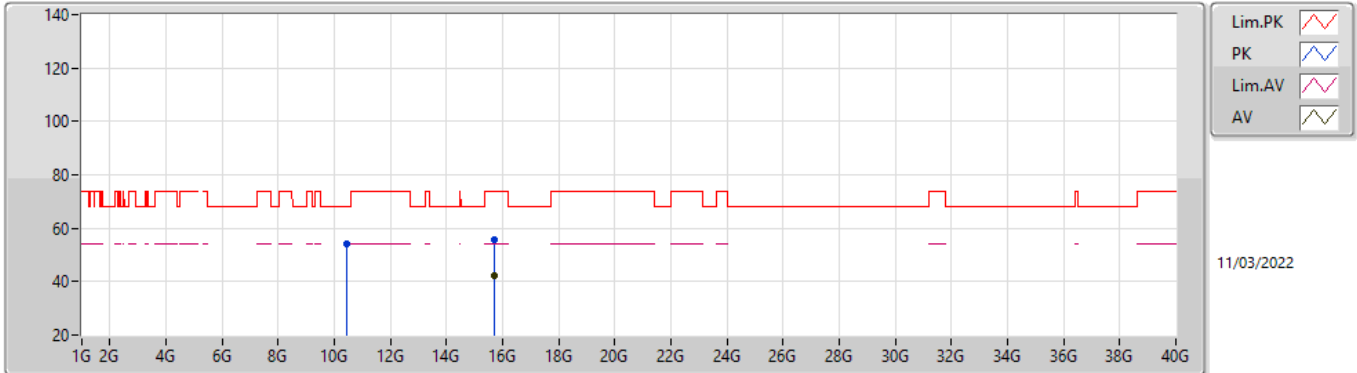


EUT_X_2TX
Setting 25.5
04-D-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.46144G	54.41	68.20	-13.79	41.45	3	Vertical	191	1.84	-	39.12	7.92	34.08
PK	15.69042G	55.62	74.00	-18.38	43.41	3	Vertical	8	1.19	-	38.33	9.02	35.14
AV	15.68772G	42.33	54.00	-11.67	30.11	3	Vertical	8	1.19	-	38.34	9.02	35.14

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

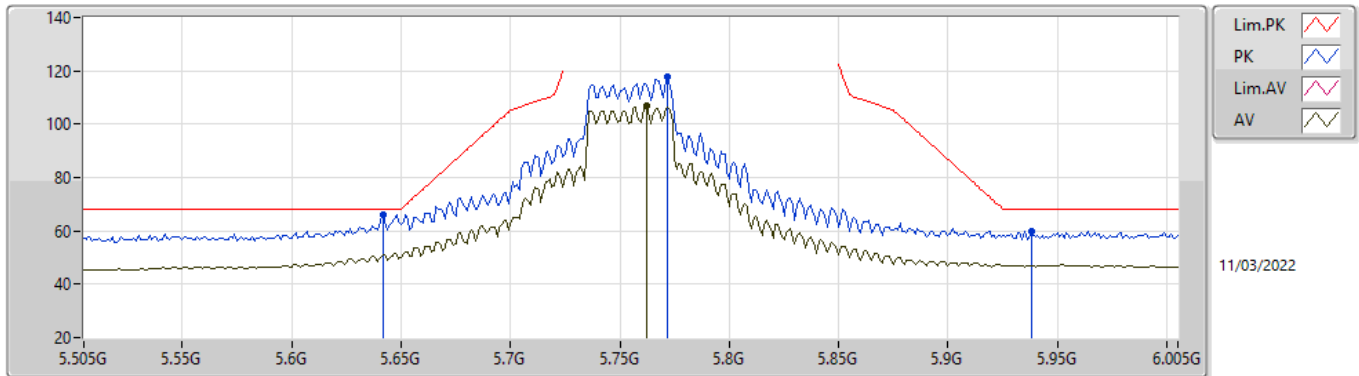


EUT_X_2TX
Setting 25.5
04-D-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.45584G	54.36	68.20	-13.84	41.41	3	Horizontal	171	1.54	-	39.11	7.92	34.08
PK	15.6937G	55.93	74.00	-18.07	43.73	3	Horizontal	350	2.15	-	38.32	9.02	35.14
AV	15.68522G	42.32	54.00	-11.68	30.10	3	Horizontal	350	2.15	-	38.34	9.02	35.14

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

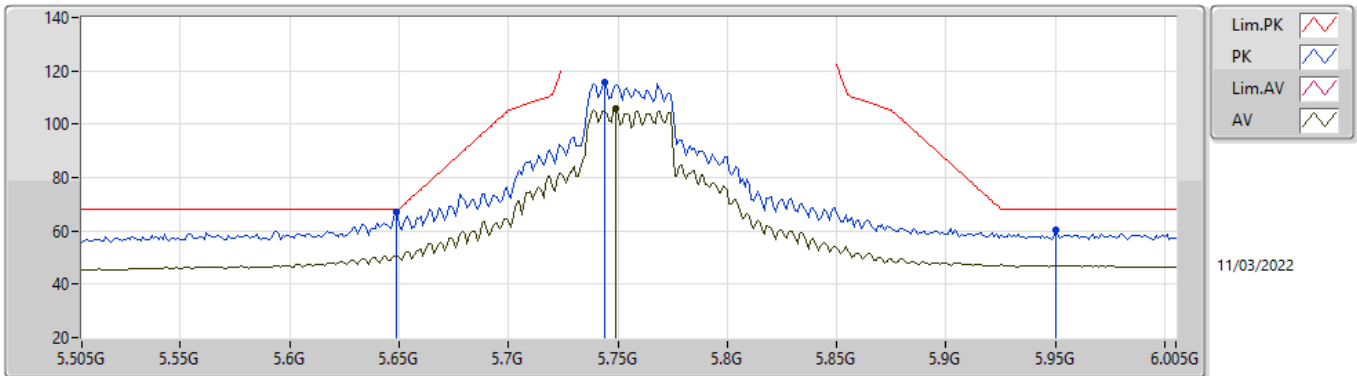


EUTX_2TX
Setting 27
04-D-S-8-10

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	66.28	68.20	-1.92	59.97	3	Vertical	78	2.60	-	34.25	5.30	33.24
PK	5.772G	117.62	Inf	-Inf	111.17	3	Vertical	78	2.60	-	34.44	5.30	33.29
AV	5.762G	106.80	Inf	-Inf	100.36	3	Vertical	78	2.60	-	34.42	5.30	33.28
PK	5.938G	60.05	68.20	-8.15	52.91	3	Vertical	78	2.60	-	35.13	5.37	33.36

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

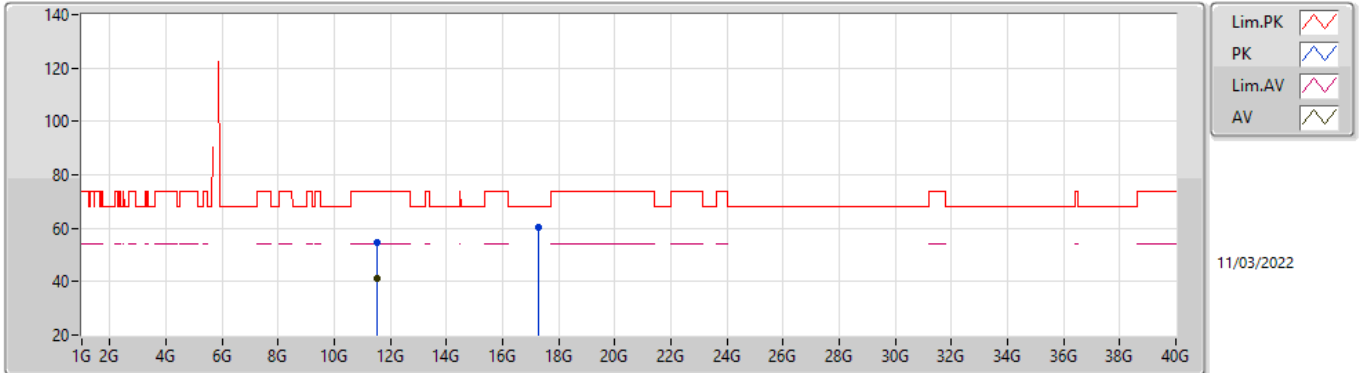


EUTX_2TX
Setting 27
04-D-S-8-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.649G	66.85	68.20	-1.35	60.50	3	Horizontal	5	1.06	-	34.29	5.30	33.24
PK	5.744G	115.48	Inf	-Inf	109.08	3	Horizontal	5	1.06	-	34.38	5.30	33.28
AV	5.749G	105.65	Inf	-Inf	99.23	3	Horizontal	5	1.06	-	34.40	5.30	33.28
PK	5.95G	60.22	68.20	-7.98	53.01	3	Horizontal	5	1.06	-	35.20	5.37	33.36

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

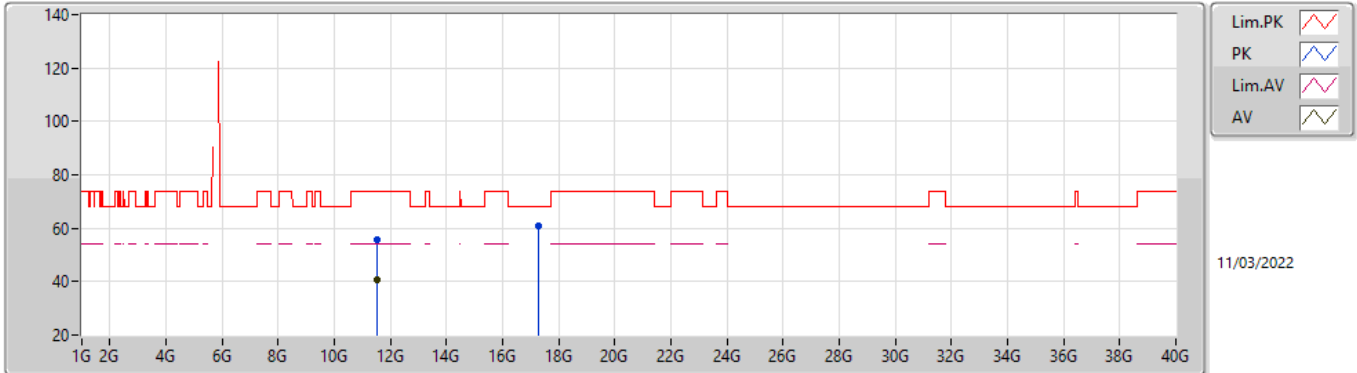


EUT_X_2TX
Setting 27
04-D-S-8

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	11.51498G	54.60	74.00	-19.40	41.41	3	Vertical	108	1.67	-	39.30	8.66	34.77
AV	11.51064G	40.97	54.00	-13.03	27.77	3	Vertical	108	1.67	-	39.30	8.66	34.76
PK	17.2636G	60.40	68.20	-7.80	43.99	3	Vertical	267	1.38	-	41.52	9.54	34.65

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

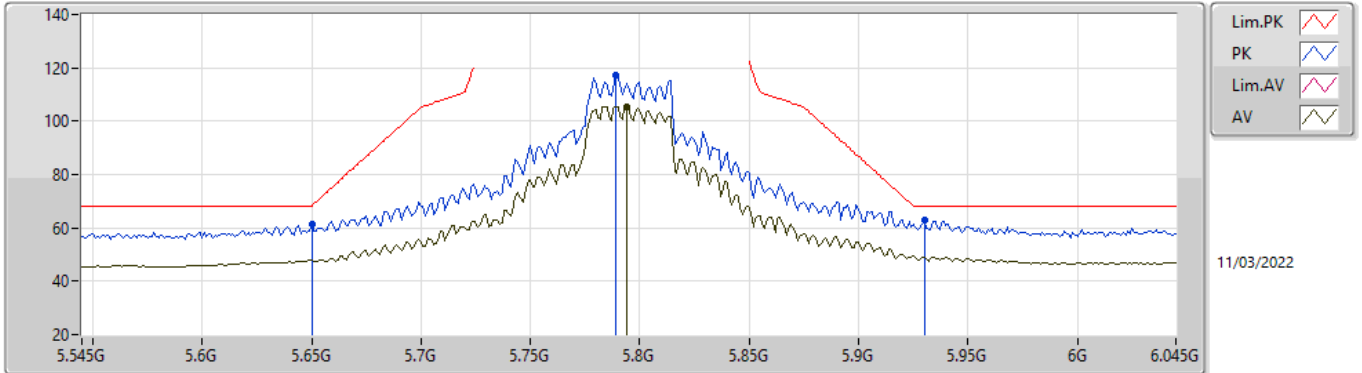


EUT_X_2TX
Setting 27
04-D-S-8

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	11.50798G	55.47	74.00	-18.53	42.27	3	Horizontal	223	1.87	-	39.30	8.66	34.76
AV	11.50508G	40.92	54.00	-13.08	27.73	3	Horizontal	223	1.87	-	39.30	8.65	34.76
PK	17.26458G	60.66	68.20	-7.54	44.25	3	Horizontal	334	1.59	-	41.52	9.54	34.65

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

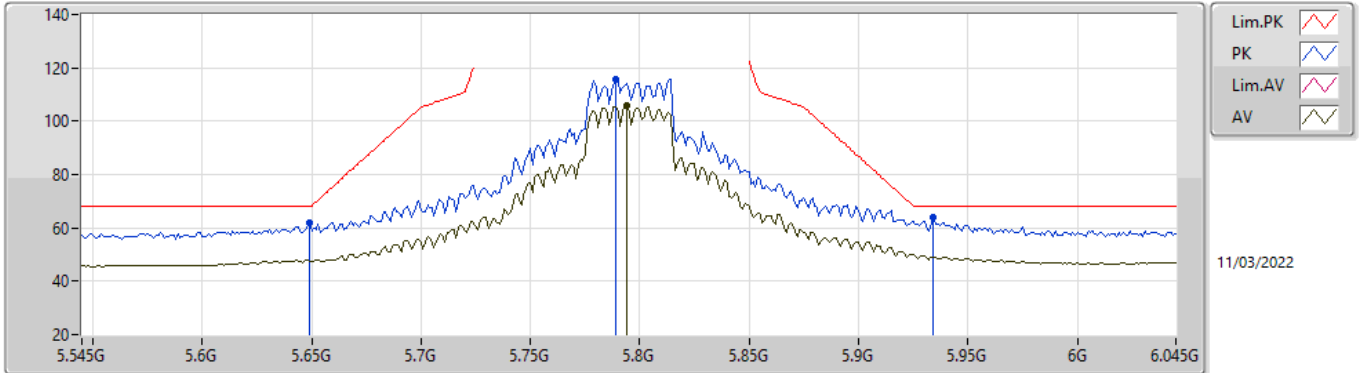


EUT_X_2TX
Setting 28
04-D-S-8-10

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	61.27	68.20	-6.93	54.91	3	Vertical	272	1.17	-	34.30	5.30	33.24
PK	5.789G	117.01	Inf	-Inf	110.53	3	Vertical	272	1.17	-	34.48	5.30	33.30
AV	5.794G	105.56	Inf	-Inf	99.07	3	Vertical	272	1.17	-	34.49	5.30	33.30
PK	5.93G	62.68	68.20	-5.52	55.58	3	Vertical	272	1.17	-	35.08	5.37	33.35

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

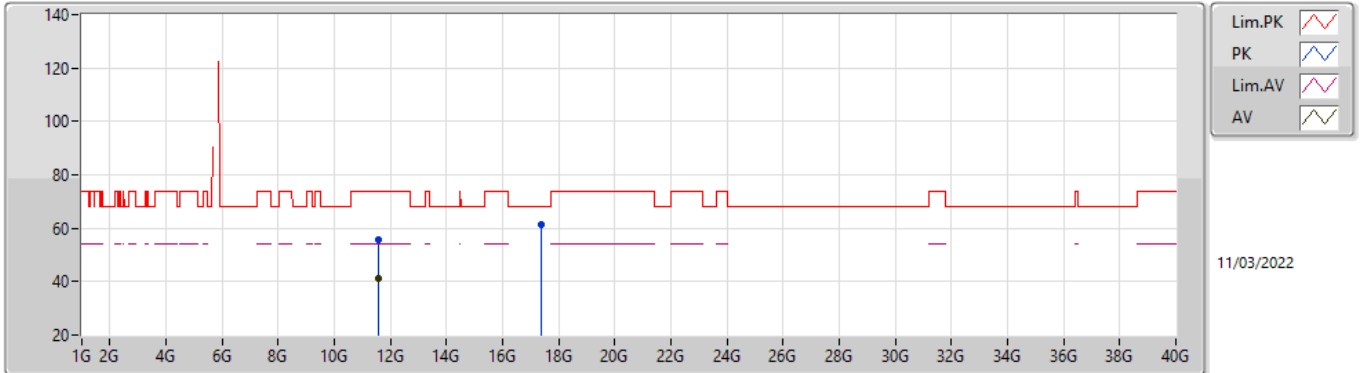


EUT X_2TX
Setting 28
04-D-S-8-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.649G	61.91	68.20	-6.29	55.56	3	Horizontal	14	1.24	-	34.29	5.30	33.24
PK	5.789G	115.87	Inf	-Inf	109.39	3	Horizontal	14	1.24	-	34.48	5.30	33.30
AV	5.794G	106.01	Inf	-Inf	99.52	3	Horizontal	14	1.24	-	34.49	5.30	33.30
PK	5.934G	63.98	68.20	-4.22	56.86	3	Horizontal	14	1.24	-	35.10	5.37	33.35

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

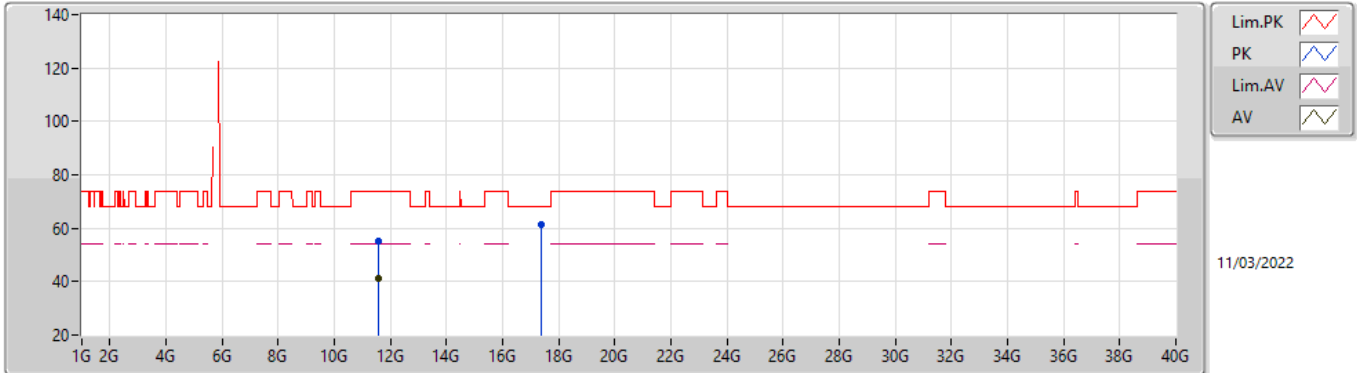


EUT X_2TX
Setting 28
04-D-S-8

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	11.59182G	55.66	74.00	-18.34	42.44	3	Vertical	178	1.88	-	39.30	8.71	34.79
AV	11.59002G	40.97	54.00	-13.03	27.75	3	Vertical	178	1.88	-	39.30	8.71	34.79
PK	17.36924G	61.52	68.20	-6.68	44.61	3	Vertical	0	1.54	-	41.91	9.58	34.58

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

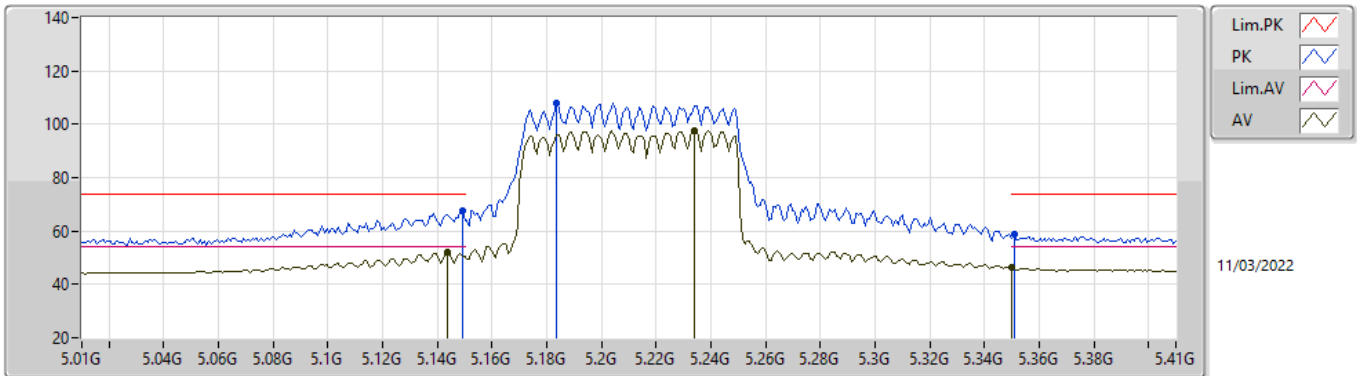


EUT_X_2TX
Setting 28
04-D-S-8

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	11.58974G	55.13	74.00	-18.87	41.91	3	Horizontal	112	1.94	-	39.30	8.71	34.79
AV	11.58908G	40.96	54.00	-13.04	27.74	3	Horizontal	112	1.94	-	39.30	8.71	34.79
PK	17.38452G	61.18	68.20	-7.02	44.22	3	Horizontal	175	1.80	-	41.95	9.58	34.57

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

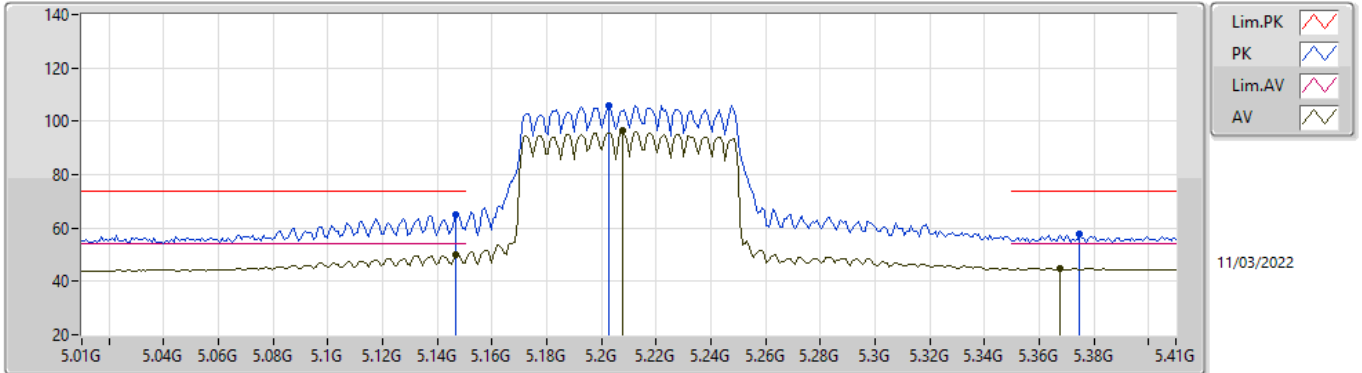


EUT_X_2TX
Setting 19
04-D-S-8-10

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	5.1492G	67.33	74.00	-6.67	62.55	3	Vertical	95	2.42	-	32.90	5.05	33.17
AV	5.1436G	51.99	54.00	-2.01	47.19	3	Vertical	95	2.42	-	32.93	5.04	33.17
PK	5.1836G	107.90	Inf	-Inf	103.02	3	Vertical	95	2.42	-	32.97	5.08	33.17
AV	5.234G	97.83	Inf	-Inf	92.90	3	Vertical	95	2.42	-	33.00	5.10	33.17
PK	5.3508G	58.78	74.00	-15.22	53.75	3	Vertical	95	2.42	-	33.10	5.10	33.17
AV	5.35G	46.17	54.00	-7.83	41.14	3	Vertical	95	2.42	-	33.10	5.10	33.17

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

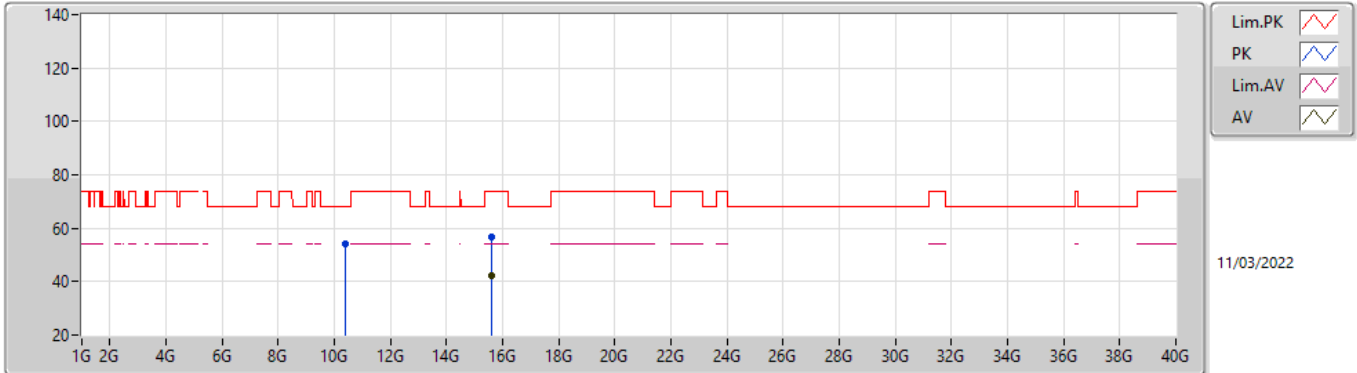


EUT_X_2TX
Setting 19
04-D-S-8-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1468G	64.98	74.00	-9.02	60.19	3	Horizontal	0	2.42	-	32.91	5.05	33.17
AV	5.1468G	50.01	54.00	-3.99	45.22	3	Horizontal	0	2.42	-	32.91	5.05	33.17
PK	5.2028G	105.92	Inf	-Inf	100.99	3	Horizontal	0	2.42	-	33.00	5.10	33.17
AV	5.2076G	96.31	Inf	-Inf	91.38	3	Horizontal	0	2.42	-	33.00	5.10	33.17
PK	5.3748G	57.54	74.00	-16.46	52.36	3	Horizontal	0	2.42	-	33.25	5.10	33.17
AV	5.3676G	44.85	54.00	-9.15	39.71	3	Horizontal	0	2.42	-	33.21	5.10	33.17

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

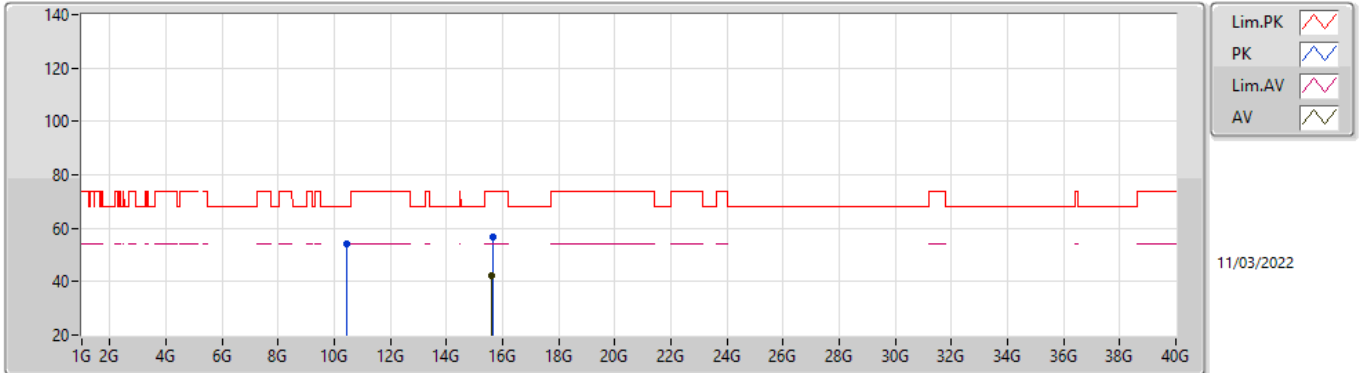


EUT_X_2TX
Setting 19
04-D-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.41582G	54.36	68.20	-13.84	41.48	3	Vertical	246	1.26	-	39.03	7.89	34.04
PK	15.62502G	56.84	74.00	-17.16	44.45	3	Vertical	47	1.01	-	38.52	9.01	35.14
AV	15.62708G	42.20	54.00	-11.80	29.81	3	Vertical	47	1.01	-	38.52	9.01	35.14

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

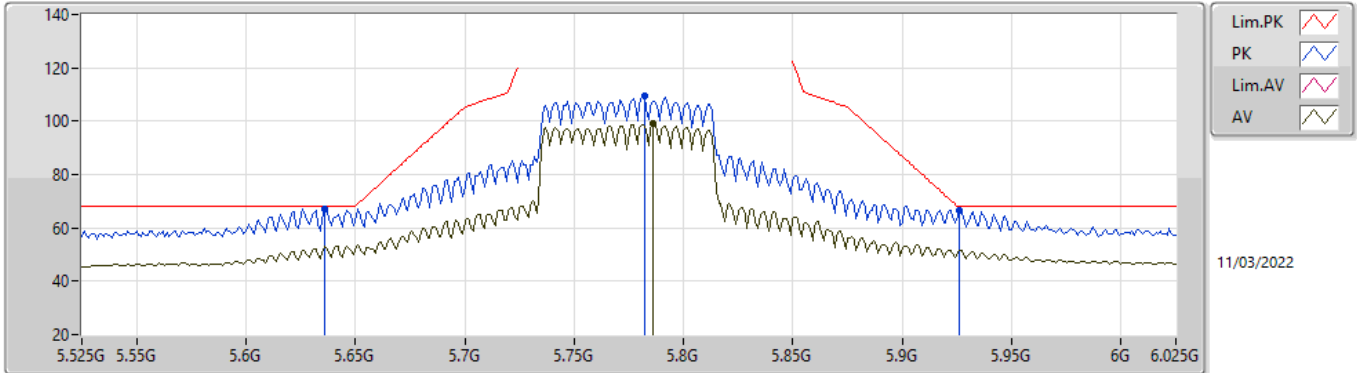


EUT_X_2TX
Setting 19
04-D-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.41814G	54.23	68.20	-13.97	41.34	3	Horizontal	206	1.56	-	39.04	7.89	34.04
PK	15.63438G	56.67	74.00	-17.33	44.30	3	Horizontal	103	2.25	-	38.50	9.01	35.14
AV	15.62708G	42.26	54.00	-11.74	29.87	3	Horizontal	103	2.25	-	38.52	9.01	35.14

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

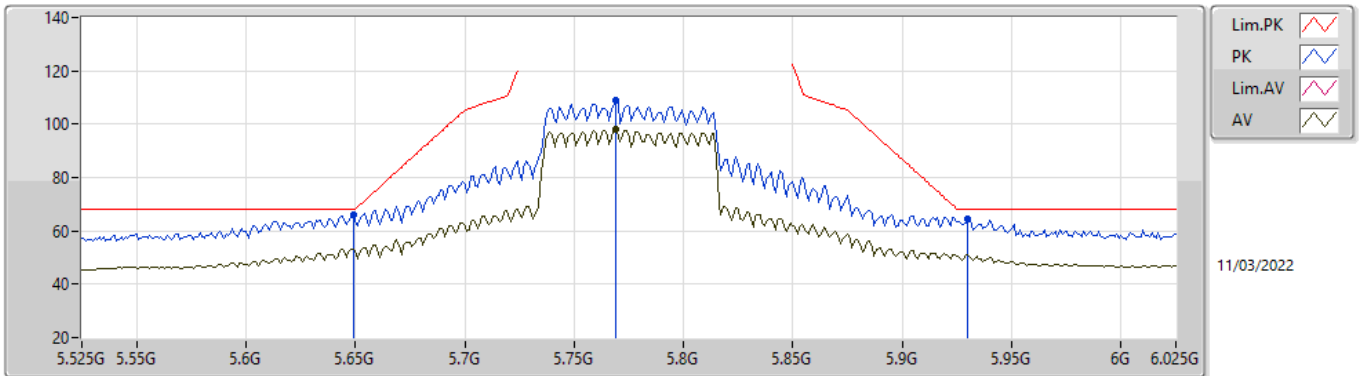


EUT_X_2TX
Setting 22
04-D-S-8-10

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	5.636G	66.93	68.20	-1.27	60.64	3	Vertical	82	2.84	-	34.22	5.30	33.23
PK	5.782G	109.62	Inf	-Inf	103.15	3	Vertical	82	2.84	-	34.46	5.30	33.29
AV	5.786G	99.33	Inf	-Inf	92.85	3	Vertical	82	2.84	-	34.47	5.30	33.29
PK	5.926G	66.43	68.20	-1.77	59.36	3	Vertical	82	2.84	-	35.06	5.36	33.35

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

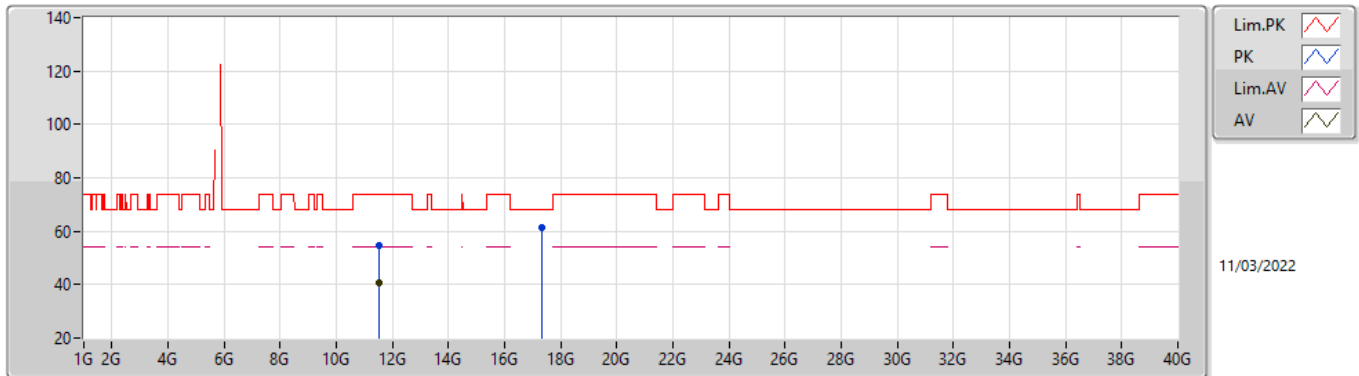


EUT_X_2TX
Setting 22
04-D-S-8-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.649G	66.04	68.20	-2.16	59.69	3	Horizontal	9	1.20	-	34.29	5.30	33.24
PK	5.769G	109.01	Inf	-Inf	102.56	3	Horizontal	9	1.20	-	34.44	5.30	33.29
AV	5.769G	97.95	Inf	-Inf	91.50	3	Horizontal	9	1.20	-	34.44	5.30	33.29
PK	5.93G	64.29	68.20	-3.91	57.19	3	Horizontal	9	1.20	-	35.08	5.37	33.35

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

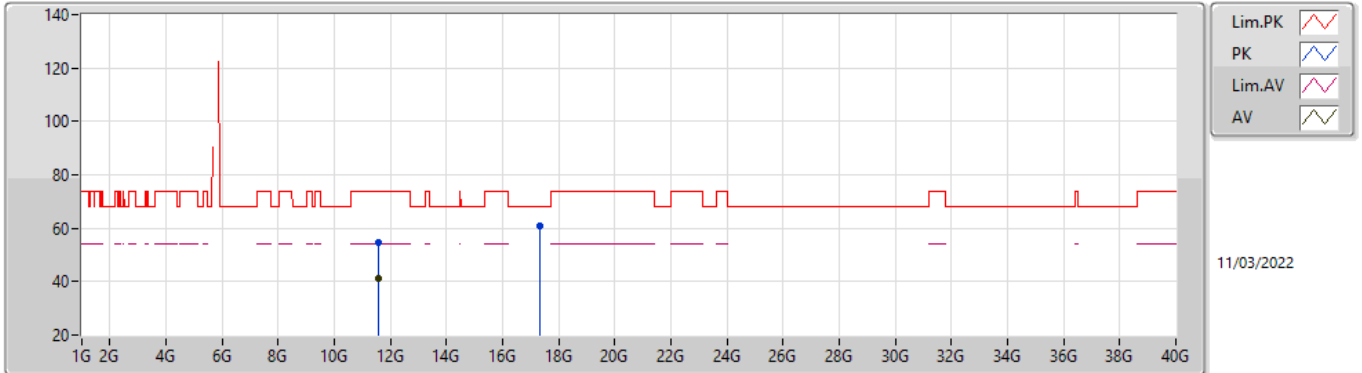


EUT X_2TX
Setting 22
04-D-S-8

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	11.54706G	54.84	74.00	-19.16	41.64	3	Vertical	319	1.04	-	39.30	8.68	34.78
AV	11.54508G	40.92	54.00	-13.08	27.72	3	Vertical	319	1.04	-	39.30	8.68	34.78
PK	17.3245G	61.31	68.20	-6.89	44.59	3	Vertical	218	2.11	-	41.77	9.56	34.61

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom



EUT X_2TX
Setting 22
04-D-S-8

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	11.55446G	54.56	74.00	-19.44	41.35	3	Horizontal	172	1.95	-	39.30	8.69	34.78
AV	11.5499G	40.97	54.00	-13.03	27.77	3	Horizontal	172	1.95	-	39.30	8.68	34.78
PK	17.32554G	61.08	68.20	-7.12	44.35	3	Horizontal	220	1.45	-	41.78	9.56	34.61