



RADIO TEST REPORT

FCC ID : RSL-TQM6403GEN2
Equipment : IEEE802.11ax tri-radio 5G/5G/2.4GHz 2x2+2x2+2x2 wireless AP
Brand Name : Allied Telesis
Model Name : AT-TQm6403 GEN2
Applicant : Allied Telesis K.K.
2nd. TOC Bldg.7-21-11 Nishi-Gotanda, Shinagawa-ku Tokyo
1410031 Japan
Manufacturer : Allied Telesis K.K.
2nd. TOC Bldg.7-21-11 Nishi-Gotanda, Shinagawa-ku Tokyo
1410031 Japan
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 01, 2022, and testing was started from Aug. 04, 2022 and completed on Sep. 05, 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

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Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	10
1.3 Testing Location Information	10
1.4 Measurement Uncertainty	11
2 Test Configuration of EUT.....	12
2.1 Test Channel Mode	12
2.2 The Worst Case Measurement Configuration.....	14
2.3 EUT Operation during Test	15
2.4 Accessories	15
2.5 Support Equipment.....	16
2.6 Test Setup Diagram	17
3 Transmitter Test Result	20
3.1 AC Power-line Conducted Emissions	20
3.2 Emission Bandwidth	22
3.3 Maximum Output Power	24
3.4 Power Spectral Density	26
3.5 Unwanted Emissions.....	29
4 Test Equipment and Calibration Data	34
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of Emission Bandwidth	
Appendix C. Test Results of Maximum Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Unwanted Emissions	
Appendix F. Test Results of Radiated Emission Co-location	
Appendix G. Test Photos	
Photographs of EUT v01	



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



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-
Note: Reference to Sporton Project No.: 272619.				

Declaration of Conformity:

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

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: 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	802.11n HT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11n HT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX



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

Note:

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

**1.1.2 Antenna Information**

Ant.	Port			Brand	P/N	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz UNII 1	5GHz UNII 3					
1	1	1	-	WNC	ATKK RANQ-AK610	PIFA	I-PEX	Note 1
2	2	2	-	WNC	ATKK RANQ-AK610	PIFA	I-PEX	
3	-	-	1	WNC	ATKK RANQ-AK610	PIFA	I-PEX	
4	-	-	2	WNC	ATKK RANQ-AK610	PIFA	I-PEX	

Note 1

Ant.	Gain (dBi)		
	2.4GHz	5GHz UNII 1	5GHz UNII 3
1	2.93	5.39	5.95
2	2.69	5.99	5.88
3	-	5.54	5.92
4	-	5.84	5.91

Note 2: The above information was declared by manufacturer.

For 2.4GHz function:**For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)**

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

Port 1 and Port 2 could transmit/receive simultaneously.

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

Note 3: The directional gain is measured which follows the procedure of KDB 662911 D01.

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 $N_{ANT} \leq 4$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

Where :

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

$$2.4G\ G1 = 2.93\ dBi ; G2 = 2.69\ dBi ; DG = 5.82\ dBi$$

$$5G\ UNII1\ G1 = 5.39\ dBi ; G2 = 5.99\ dBi ; DG = 8.71\ dBi$$

$$5G\ UNII3\ G1 = 5.92\ dBi ; G2 = 5.91\ dBi ; DG = 8.93\ dBi$$

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.932	0.31	1.978m	1k
802.11ax HEW20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.981	0.08	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80	0.978	0.1	4.01m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QSPR V5.0-00199			

Note: The above information was declared by manufacturer.

1.1.5 Table for Radio function

Radio	WLAN 2.4GHz	5GHz UNII 1	5GHz UNII 3
1	V	-	-
2	-	V	-
3	-	-	V

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 ISCED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Owen Hsu	23.3~24.9 / 67~69	Aug. 08, 2022~ Aug. 09, 2022
Radiated <Below 1GHz>	03CH05-CB	Stim Sung	25.1~25.6 / 63~65	Sep. 01, 2022~ Sep. 02, 2022
	03CH06-CB	Stim Sung	24.3~26.3 / 63~66	
Radiated <Above 1GHz>	03CH02-CB	KJ Chang	24.8~26.9 / 62~66	Aug. 04, 2022~ Aug. 08, 2022
Radiated <Co-location>	03CH06-CB	KJ Chang	24.4-25.5 / 55-58	Aug. 04, 2022~ Aug. 08, 2022
AC Conduction	CO01-CB	Dean Chang	20~22 / 60~62	Sep. 05, 2022

Note: The tested sample of the Radiated Emission <Below 1GHz> and AC Power-line Conducted Emissions test item was received on Aug. 08, 2022.



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	20
5200MHz	22
5240MHz	20.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	20.5
5200MHz	22
5240MHz	21
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	20
5755MHz	22
5795MHz	23
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	20

**<Beamforming mode>**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	20.5
5200MHz	22
5240MHz	21
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	20
5755MHz	22
5795MHz	23
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	17.5
5775MHz	20

Note:

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

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with Adapter
2	EUT with PoE 1_LAN 1
3	EUT with PoE 1_LAN 2
Mode 3 generated the worst test result, so it was recorded in this report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in Z axis with Adapter
2	EUT in Y axis with Adapter
3	EUT in X axis with Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT in Z axis with PoE 1_LAN 1
5	EUT in Z axis with PoE 1_LAN 2
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT can be placed in X axis, Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Radiated measurement <Above 1GHz>; thus, the measurement will follow this same test configuration.
1	EUT in Z axis + WLAN 2.4GHz + WLAN 5GHz_UNII1
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT + WLAN 2.4GHz + WLAN 5GHz_UNII1 + WLAN 5GHz_UNII3
Refer to Sporton Test Report No.: FA272620 for Co-location RF Exposure Evaluation.	

Note: The Adapter and PoEs below are for measurement only, would not be marketed.

The Adapter and PoEs information as below:

Support Unit	Brand Name	Model
Adapter	APD	DA-48Z12
PoE 1	Microsemi	PD-9001-10GC/AC
PoE 2	PHIHONG	POEA33U-1ATE

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Wall-mounted rack*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	E6430	N/A
B	LAN2 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5GL NB	DELL	E6430	N/A
E	5GH NB	DELL	E6430	N/A
F	PoE 1	Microsemi	PD-9001-10GC/AC	N/A

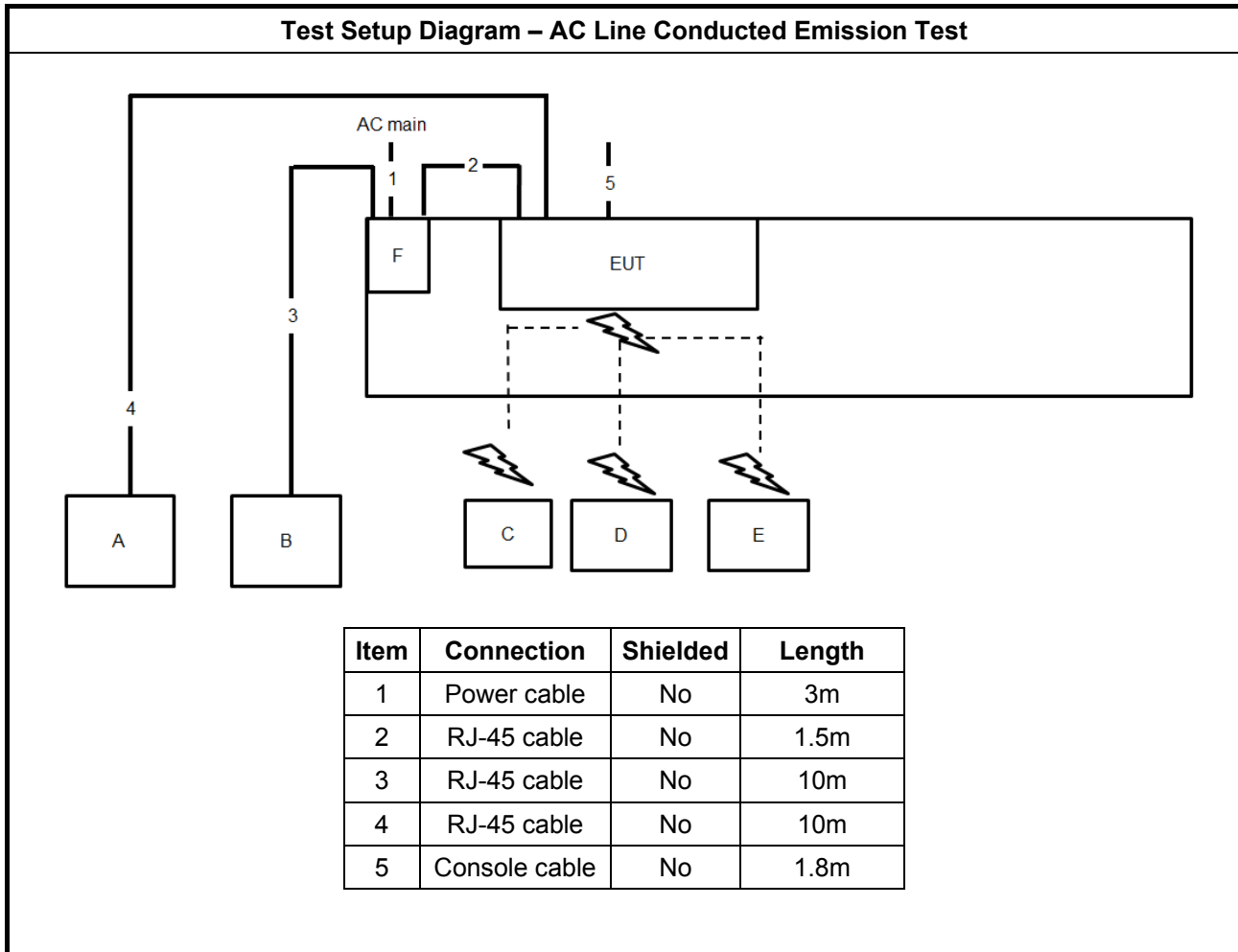
For Radiated <below 1GHz>:

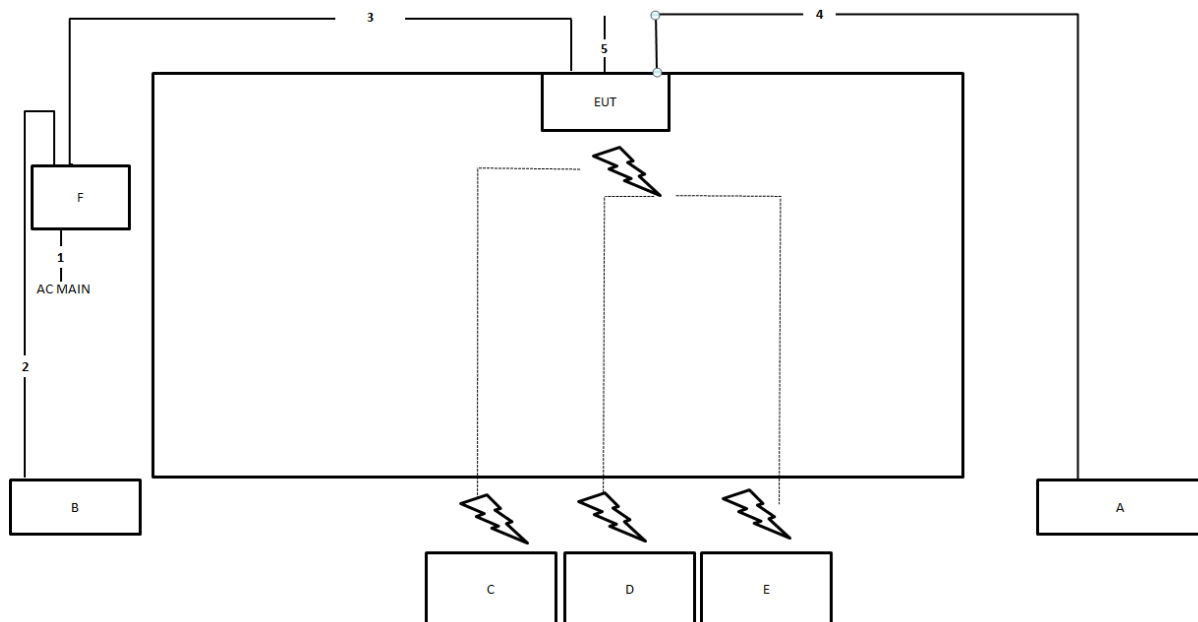
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PC (PoE LAN)	DELL	T3400	N/A
B	PC(LAN)	DELL	OPTIPLEX 380	N/A
C	2.4G WIFI NB	DELL	E4300	N/A
D	5G L WIFI NB	DELL	E4300	N/A
E	5G H WIFI NB	DELL	E4300	N/A
F	PoE 1	Microsemi	PD-9001-10GC/AC	N/A

For Radiated <above 1GHz> and For RF Conducted:

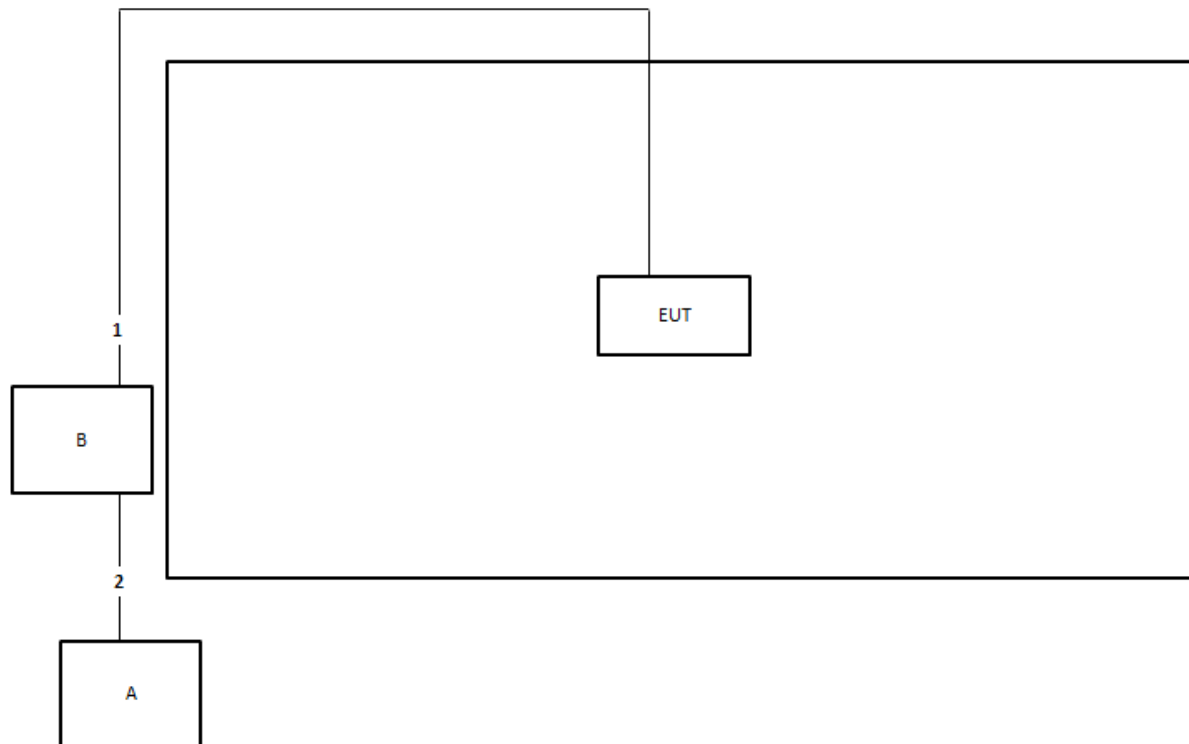
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 2	PHIHONG	POEA33U-1ATE	N/A

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	No	10m
5	Console cable	No	1.8m

Test Setup Diagram - Radiated Test > 1GHz


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

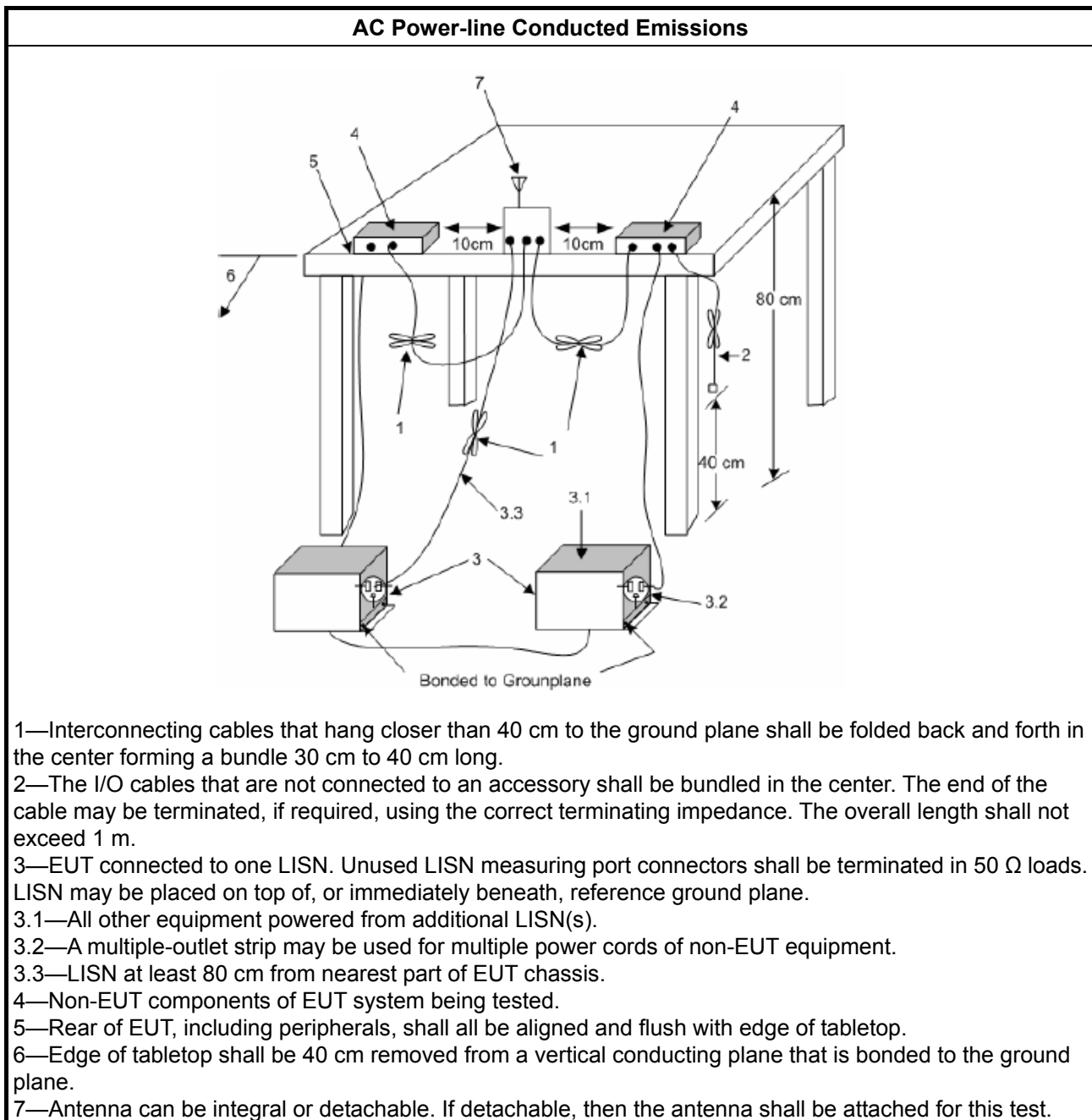
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

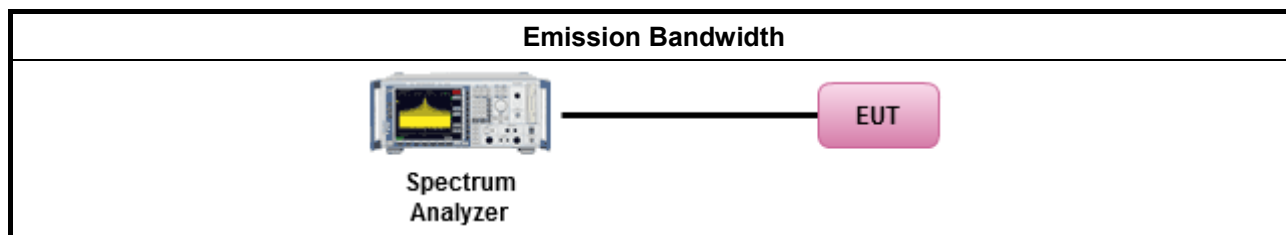
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

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

lesser of 1 W.

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

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

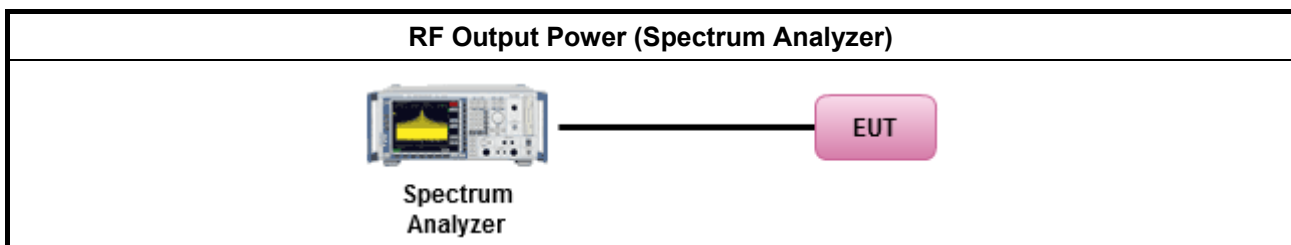
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

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



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

3.4.2 Measuring Instruments

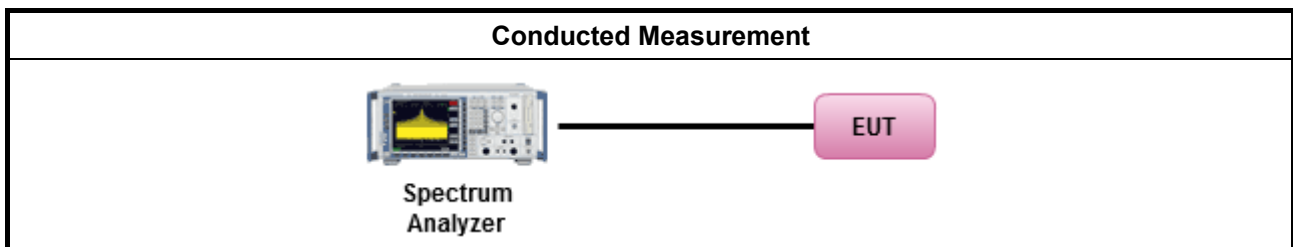
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

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

Test Method	
	$EIRP_{total} = PPSD_{total} + DG$
☐	For radiated measurement.
	Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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



Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
☐ 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

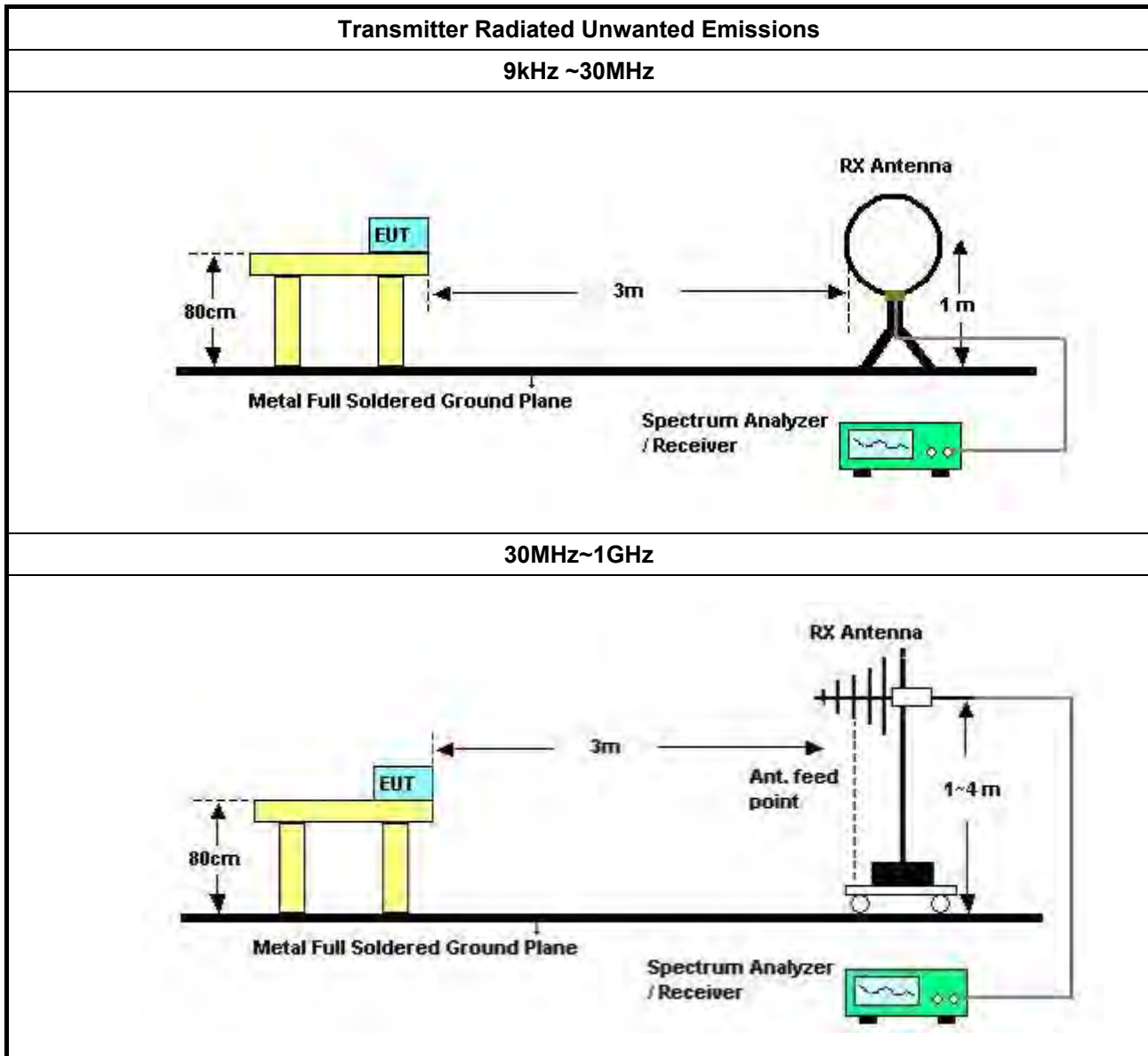
3.5.2 Measuring Instruments

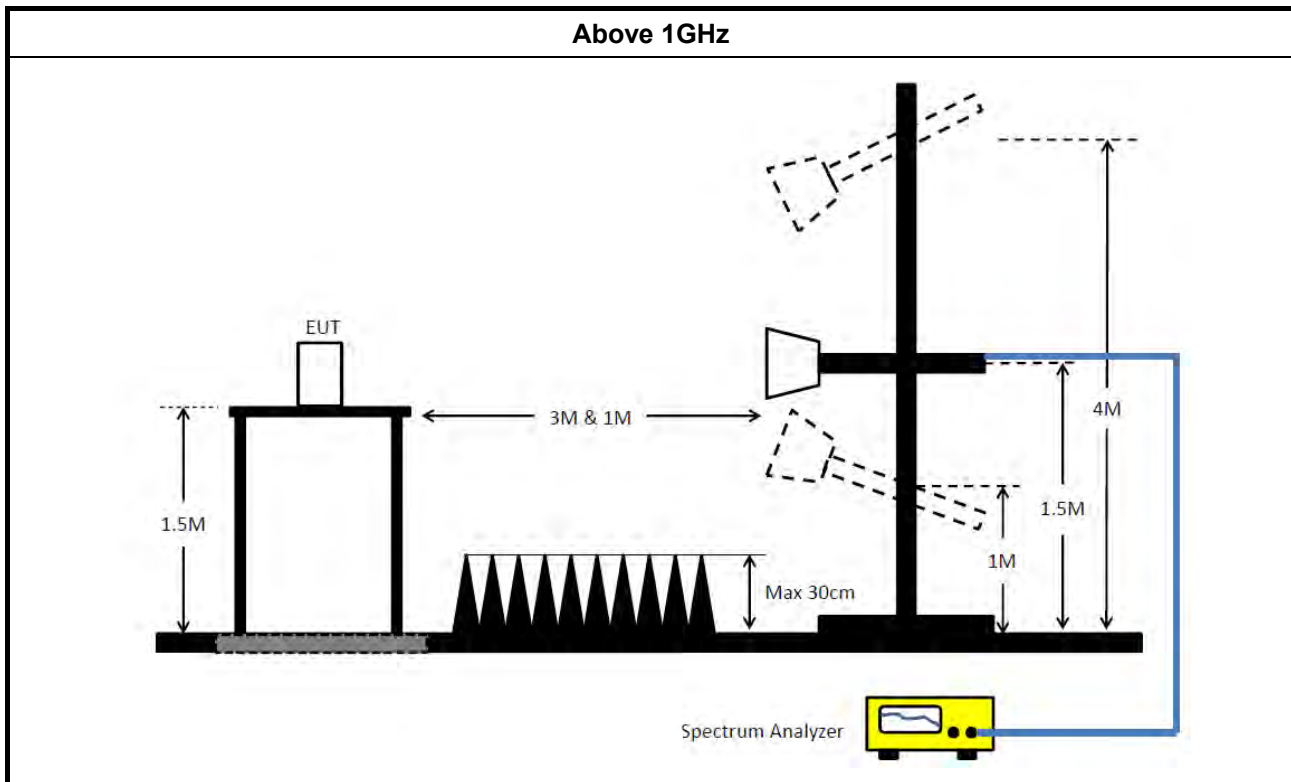
Refer a test equipment and calibration data table in this test report.

**3.5.3 Test Procedures**

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2022	Mar. 17, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCi	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCi	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2022	Mar. 17, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 04, 2022	Aug. 03, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCi	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 31, 2022	Jul. 30, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 04, 2021	Nov. 03, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+67	30MHz~1GHz	Jun. 20, 2022	Jun. 19, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 25, 2021	Oct. 24, 2022	Conducted (TH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	SWI-02-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



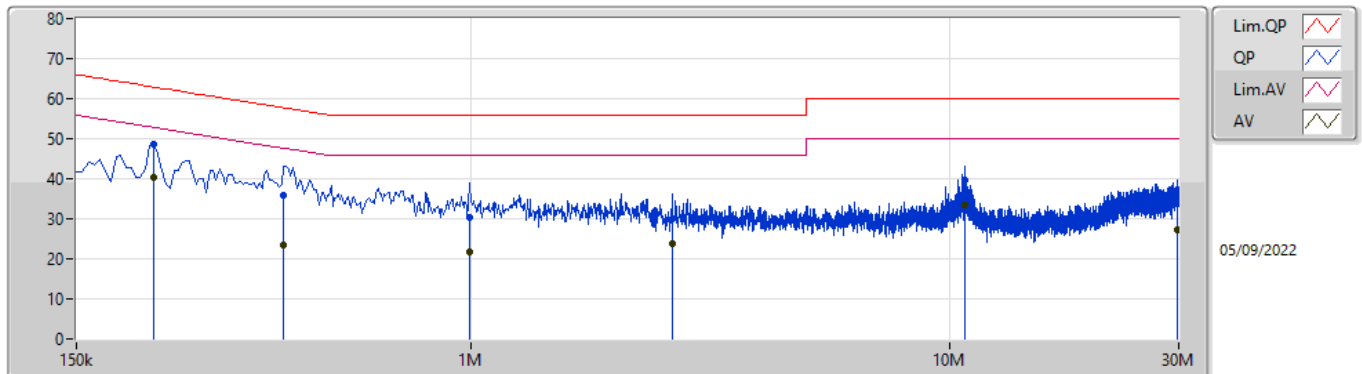
Conducted Emissions at Powerline

Appendix A

Summary

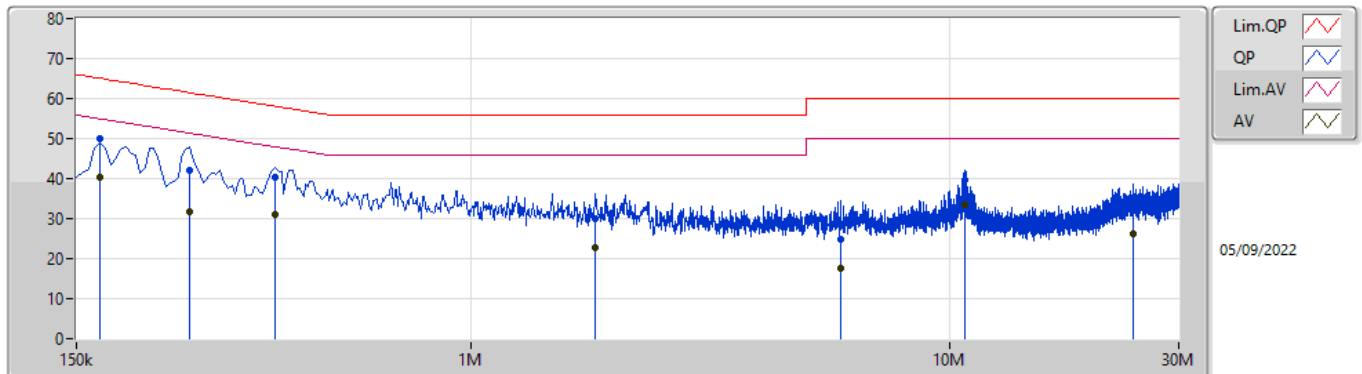
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	217.5k	40.36	52.92	-12.56	Line

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	48.66	62.92	-14.26	9.99	Line	-	38.67	0.06	0.04	9.89			
AV	217.5k	40.36	52.92	-12.56	9.99	Line	"Worst"	30.37	0.06	0.04	9.89			
QP	406.5k	35.69	57.72	-22.03	10.01	Line	-	25.68	0.06	0.06	9.89			
AV	406.5k	23.50	47.72	-24.22	10.01	Line	-	13.49	0.06	0.06	9.89			
QP	991.5k	30.22	56.00	-25.78	10.00	Line	-	20.22	0.07	0.04	9.89			
AV	991.5k	21.60	46.00	-24.40	10.00	Line	-	11.60	0.07	0.04	9.89			
QP	2.63M	30.04	56.00	-25.96	10.08	Line	-	19.96	0.10	0.09	9.89			
AV	2.63M	23.74	46.00	-22.26	10.08	Line	-	13.66	0.10	0.09	9.89			
QP	10.703M	39.75	60.00	-20.25	10.31	Line	-	29.44	0.23	0.16	9.92			
AV	10.703M	33.49	50.00	-16.51	10.31	Line	-	23.18	0.23	0.16	9.92			
QP	29.819M	33.85	60.00	-26.15	10.76	Line	-	23.09	0.40	0.34	10.02			
AV	29.819M	27.08	50.00	-22.92	10.76	Line	-	16.32	0.40	0.34	10.02			

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	168k	50.05	65.06	-15.01	10.00	Neutral	-	40.05	0.07	0.04	9.89			
AV	168k	40.31	55.06	-14.75	10.00	Neutral	"Worst"	30.31	0.07	0.04	9.89			
QP	258k	42.05	61.49	-19.44	10.01	Neutral	-	32.04	0.07	0.05	9.89			
AV	258k	31.57	51.49	-19.92	10.01	Neutral	-	21.56	0.07	0.05	9.89			
QP	388.5k	40.27	58.10	-17.83	10.02	Neutral	-	30.25	0.07	0.06	9.89			
AV	388.5k	31.04	48.10	-17.06	10.02	Neutral	-	21.02	0.07	0.06	9.89			
QP	1.815M	30.06	56.00	-25.94	10.07	Neutral	-	19.99	0.10	0.08	9.89			
AV	1.815M	22.64	46.00	-23.36	10.07	Neutral	-	12.57	0.10	0.08	9.89			
QP	5.919M	24.92	60.00	-35.08	10.21	Neutral	-	14.71	0.18	0.13	9.90			
AV	5.919M	17.58	50.00	-32.42	10.21	Neutral	-	7.37	0.18	0.13	9.90			
QP	10.703M	39.70	60.00	-20.30	10.33	Neutral	-	29.37	0.25	0.16	9.92			
AV	10.703M	33.44	50.00	-16.56	10.33	Neutral	-	23.11	0.25	0.16	9.92			
QP	24.072M	32.91	60.00	-27.09	10.54	Neutral	-	22.37	0.30	0.27	9.97			
AV	24.072M	26.20	50.00	-23.80	10.54	Neutral	-	15.66	0.30	0.27	9.97			

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	36.48M	21.259M	21M3D1D	20.55M	16.432M
802.11ax HEW20_Nss1,(MCS0)_2TX	38.04M	19.91M	19M9D1D	21.99M	18.951M
802.11ax HEW40_Nss1,(MCS0)_2TX	70.5M	39.1M	39M1D1D	41.1M	37.901M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.56M	77.241M	77M2D1D	82.44M	77.241M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	32.054M	32M1D1D	16.32M	19.49M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.02M	34.423M	34M4D1D	18.9M	20.03M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.56M	63.328M	63M3D1D	36.72M	53.733M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.04M	78.561M	78M6D1D	74.64M	78.441M

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

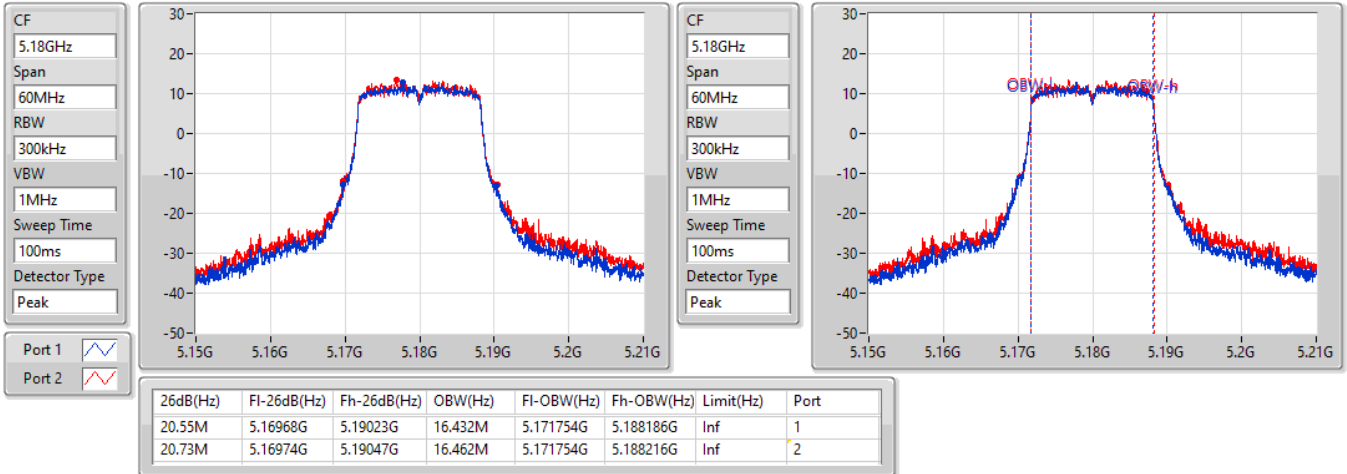
Result

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	20.55M	16.432M	20.73M	16.462M
5200MHz	Pass	Inf	34.14M	18.471M	36.48M	21.259M
5240MHz	Pass	Inf	29.28M	17.151M	29.13M	17.001M
5745MHz	Pass	500k	16.32M	32.054M	16.32M	30.015M
5785MHz	Pass	500k	16.32M	28.516M	16.35M	29.085M
5825MHz	Pass	500k	16.32M	19.49M	16.32M	31.844M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.05M	18.951M	21.99M	18.981M
5200MHz	Pass	Inf	33.21M	19.25M	38.04M	19.91M
5240MHz	Pass	Inf	35.64M	19.4M	33.75M	19.49M
5745MHz	Pass	500k	18.99M	34.333M	18.93M	31.874M
5785MHz	Pass	500k	19.02M	29.265M	18.99M	30.915M
5825MHz	Pass	500k	18.96M	20.03M	18.9M	34.423M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	41.1M	37.961M	41.4M	37.901M
5230MHz	Pass	Inf	69.18M	38.561M	70.5M	39.1M
5755MHz	Pass	500k	36.72M	58.051M	37.44M	53.733M
5795MHz	Pass	500k	37.56M	60.93M	37.44M	63.328M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.44M	77.241M	82.56M	77.241M
5775MHz	Pass	500k	74.64M	78.561M	77.04M	78.441M

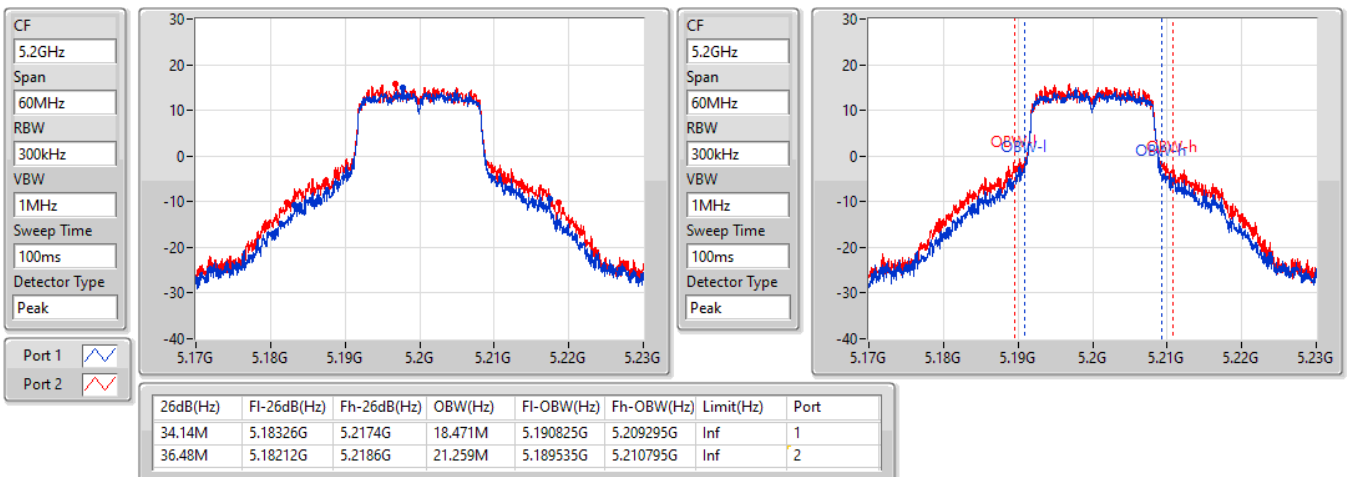
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

08/08/2022

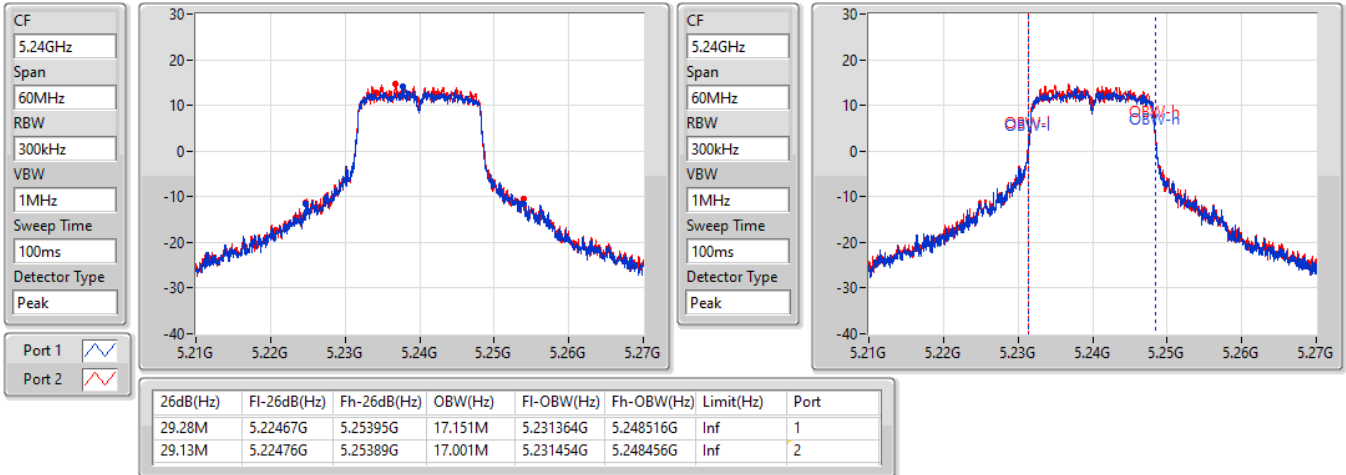

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

08/08/2022

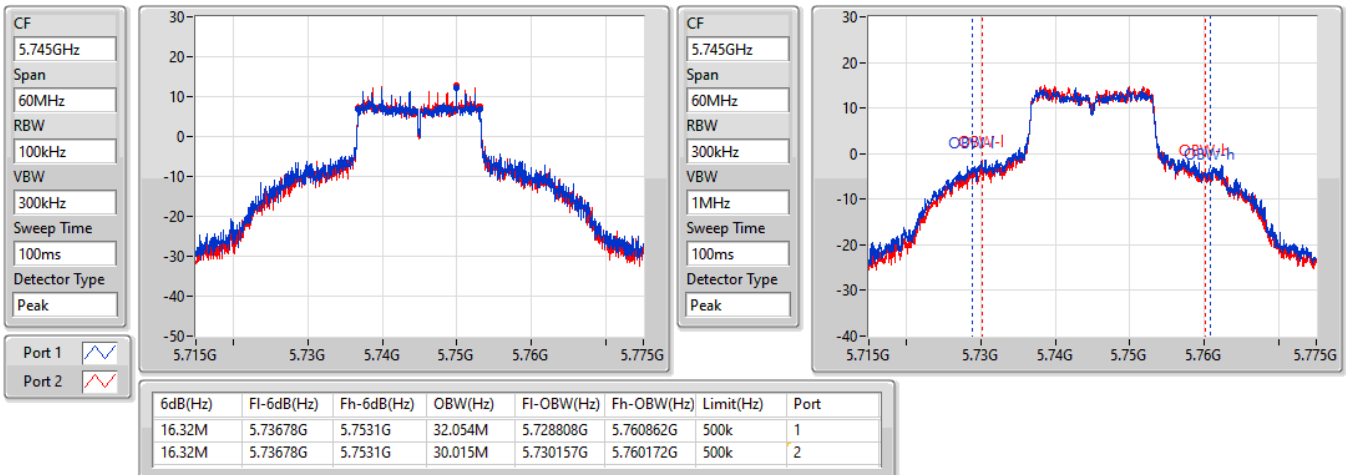


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

08/08/2022


802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

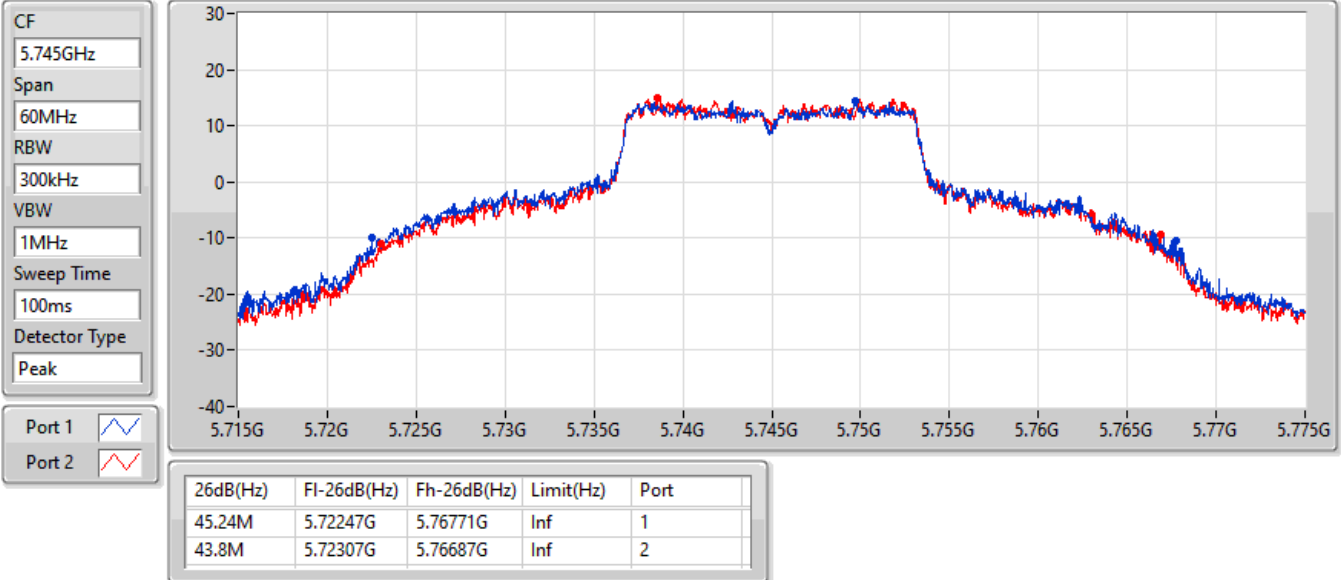
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802.11a_Nss1,(6Mbps)_2TX

EBW
5745MHz

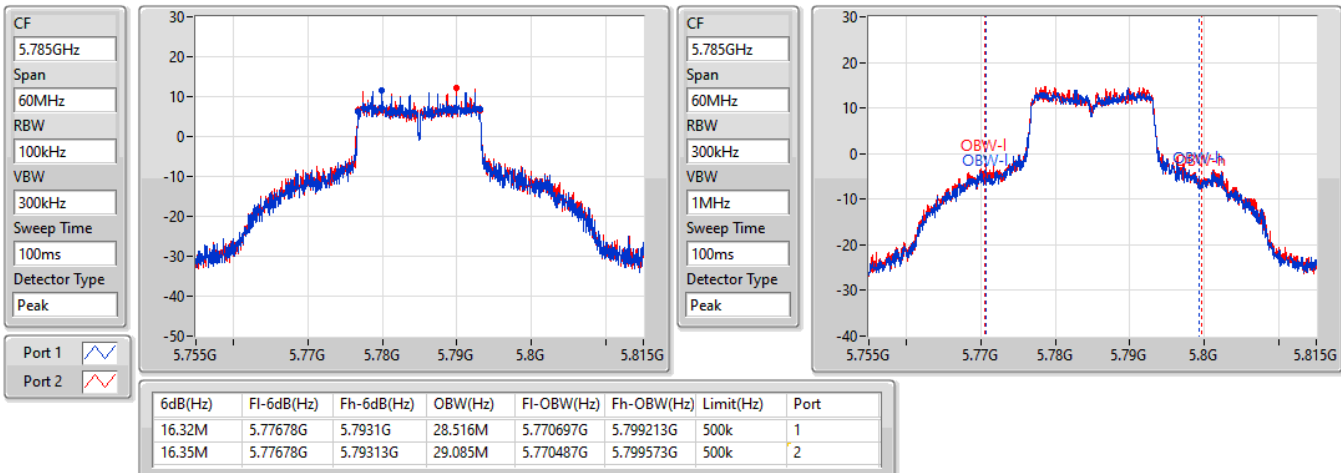
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802.11a_Nss1,(6Mbps)_2TX

EBW
5785MHz

08/08/2022

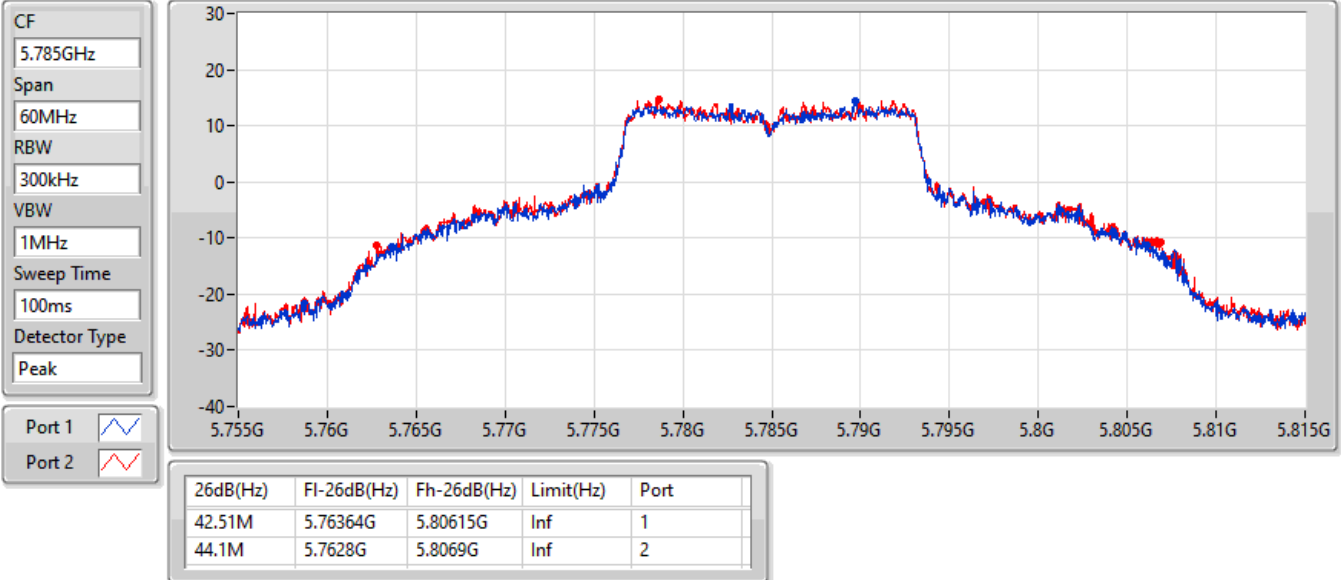


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

08/08/2022

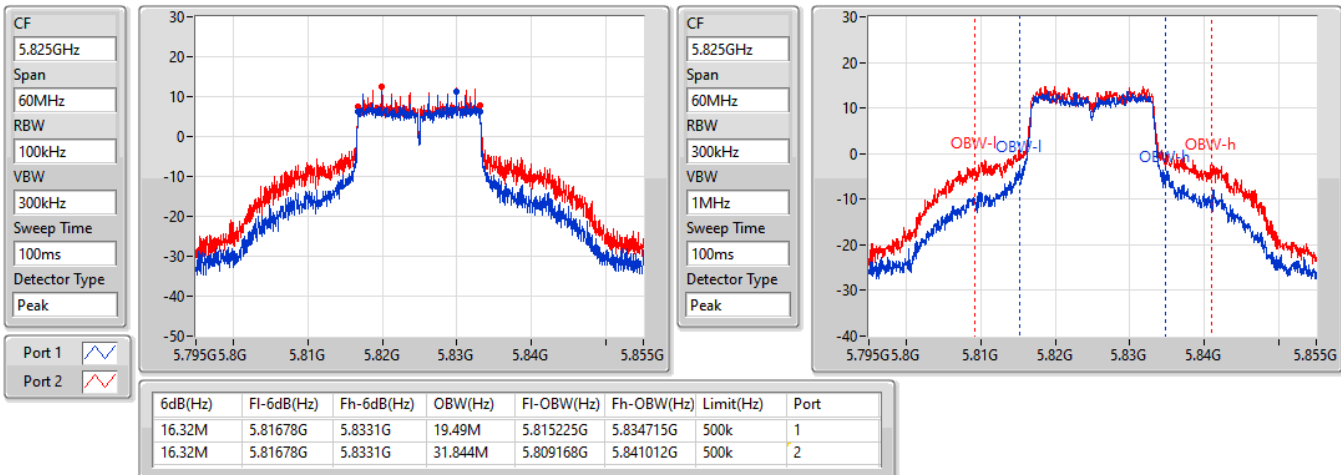


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

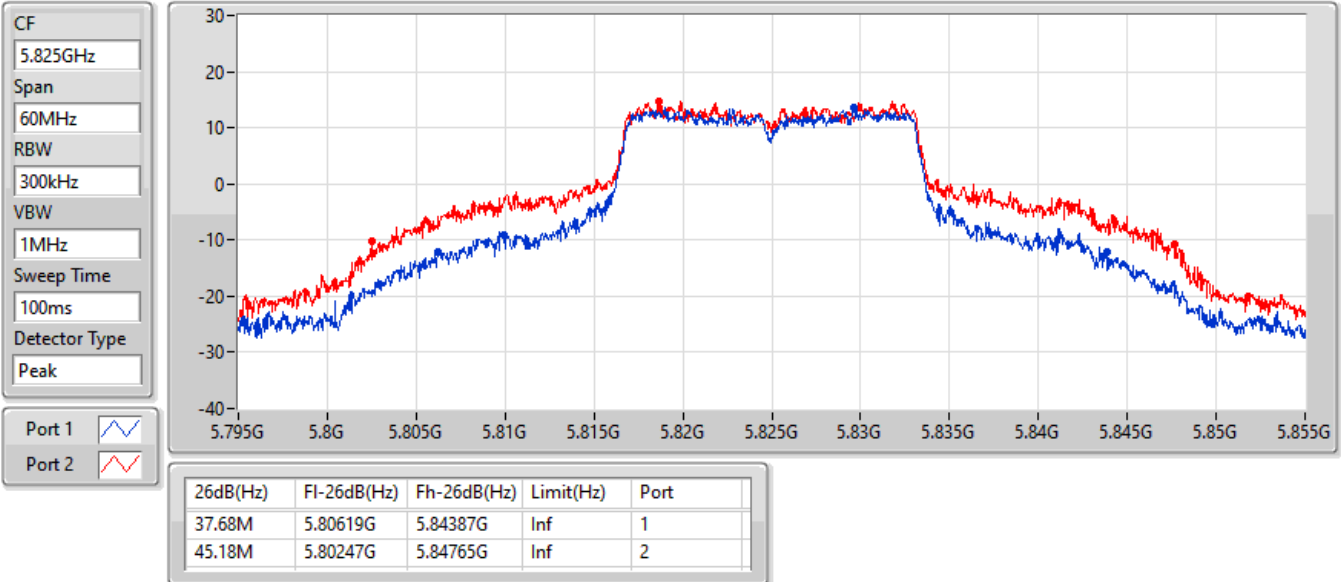
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802.11a_Nss1,(6Mbps)_2TX

EBW
5825MHz

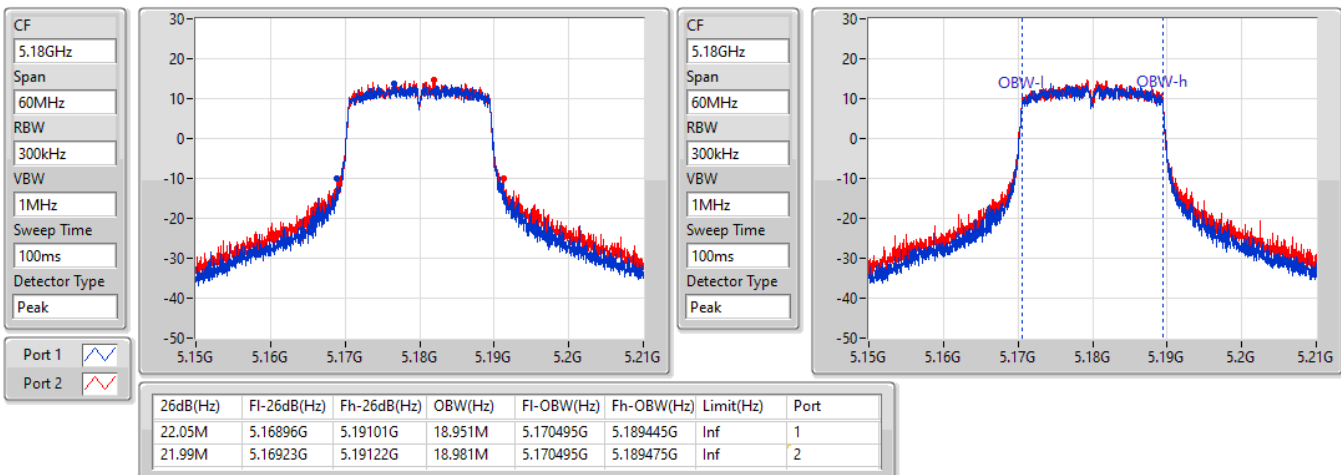
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802.11ax HEW20_Nss1,(MCS0)_2TX

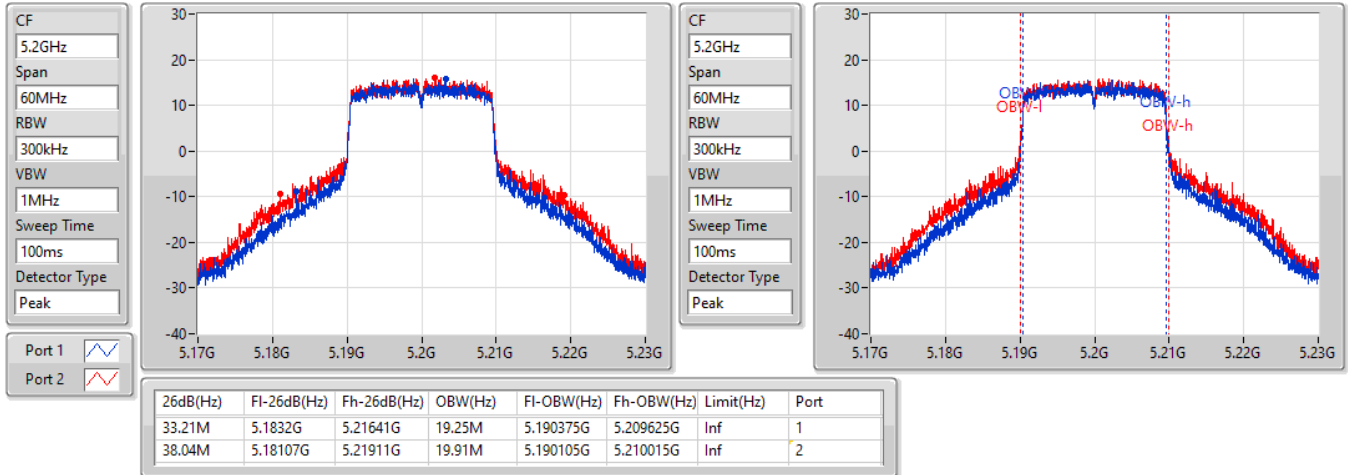
EBW
5180MHz

08/08/2022

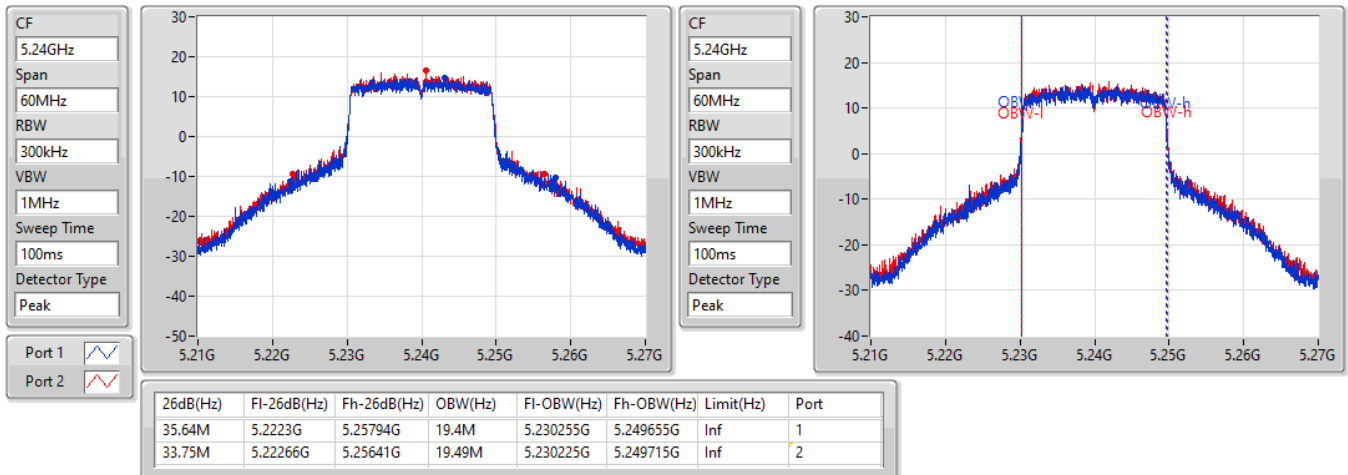


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5200MHz

08/08/2022

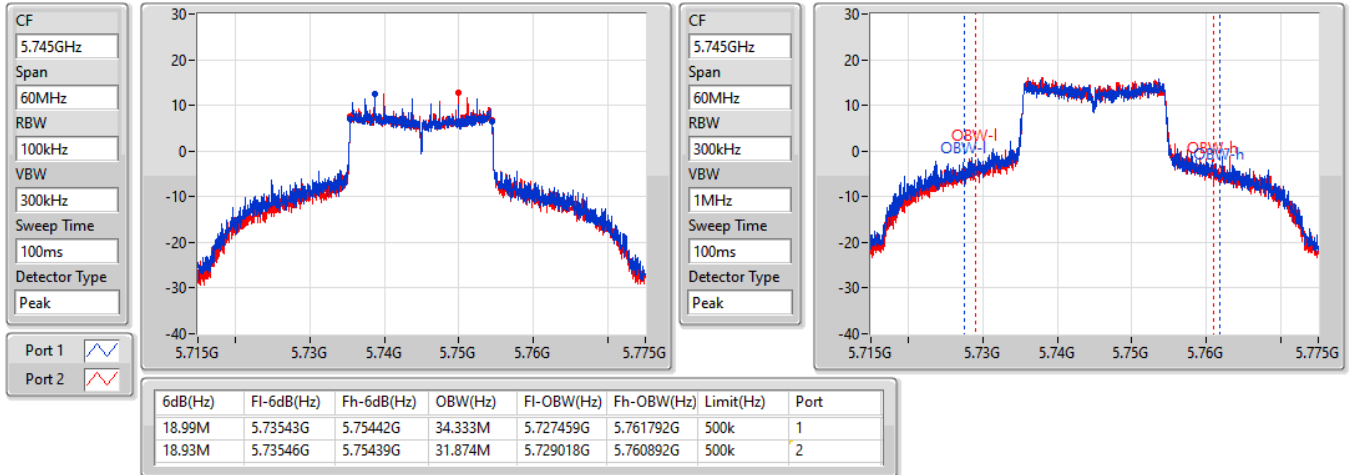

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5240MHz

08/08/2022

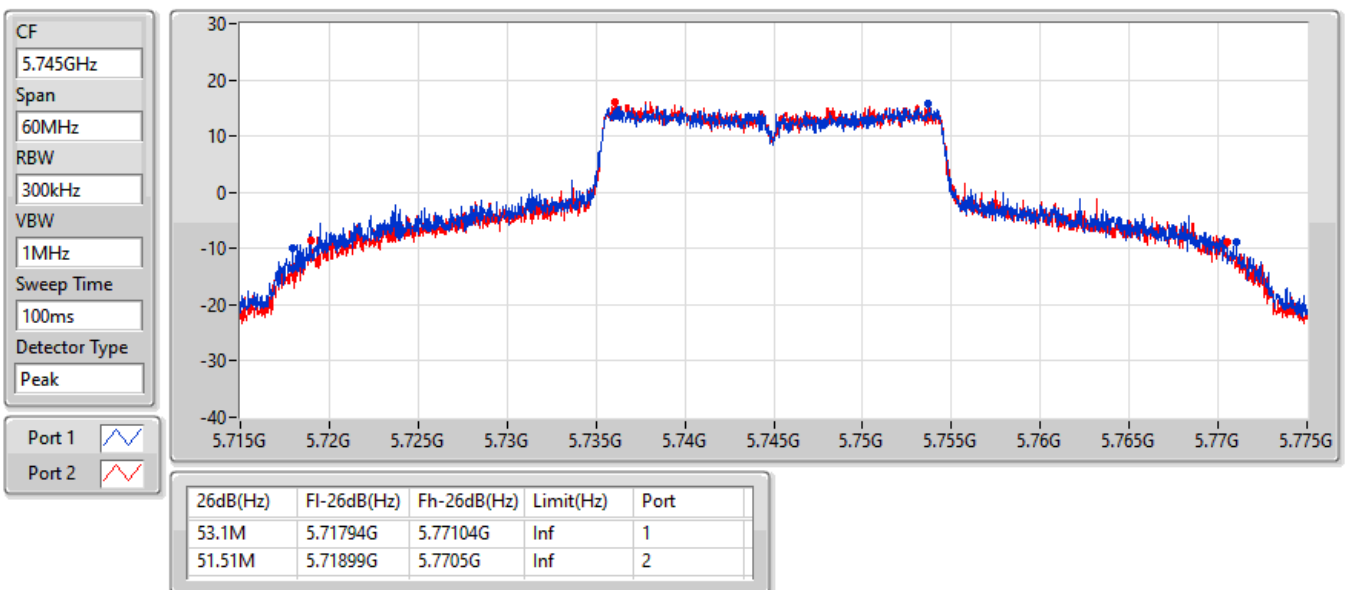


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5745MHz

08/08/2022

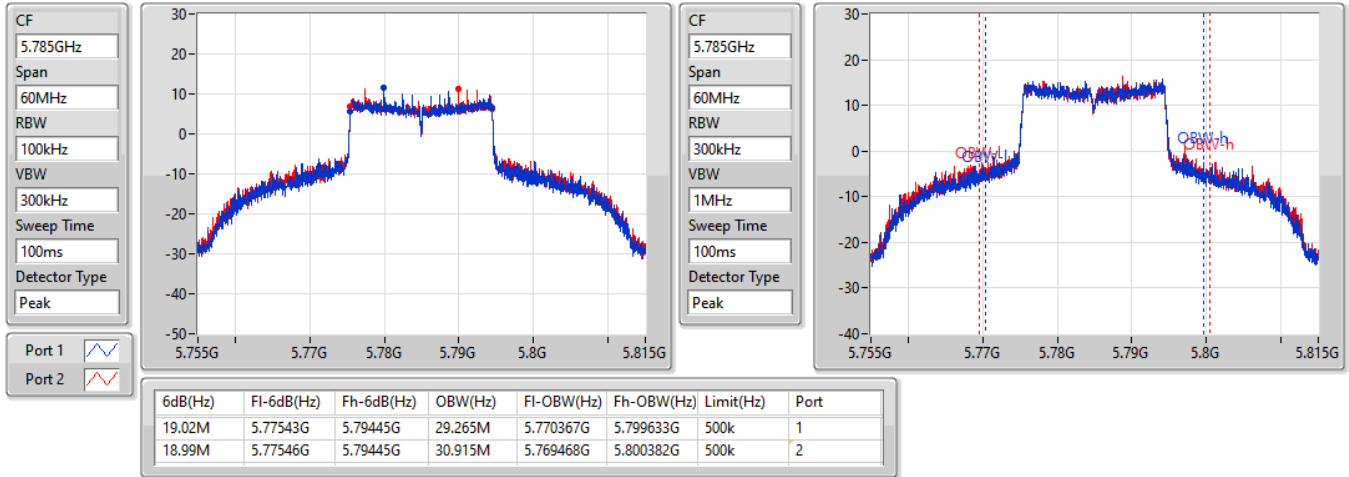

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5745MHz

08/08/2022

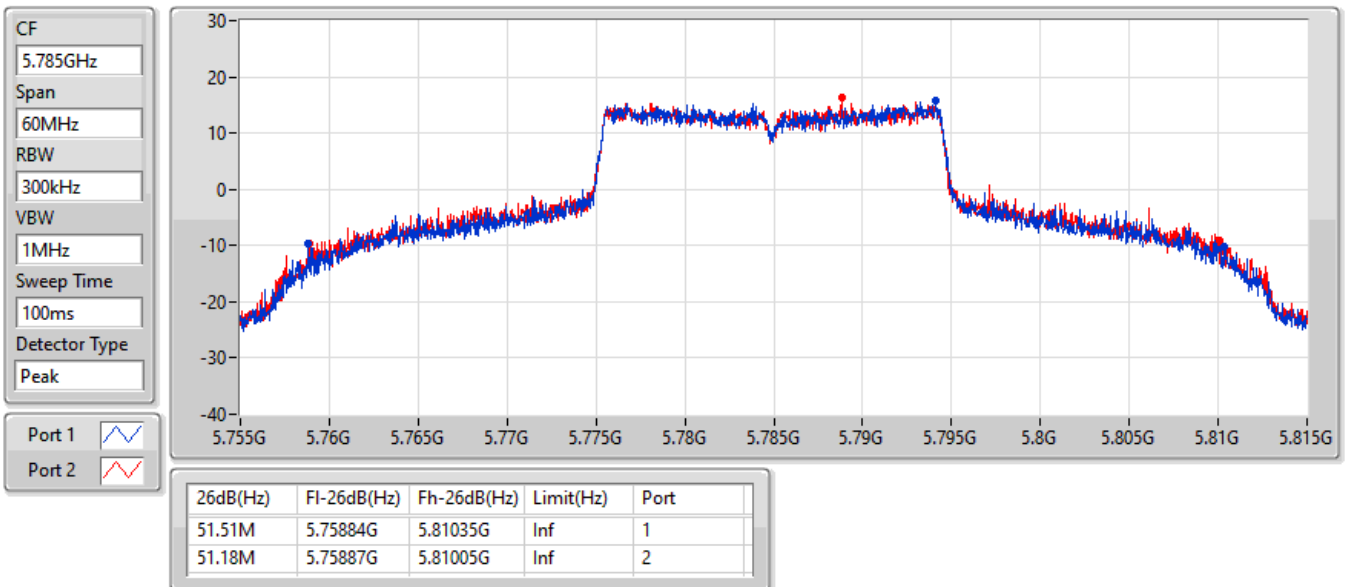


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5785MHz

08/08/2022

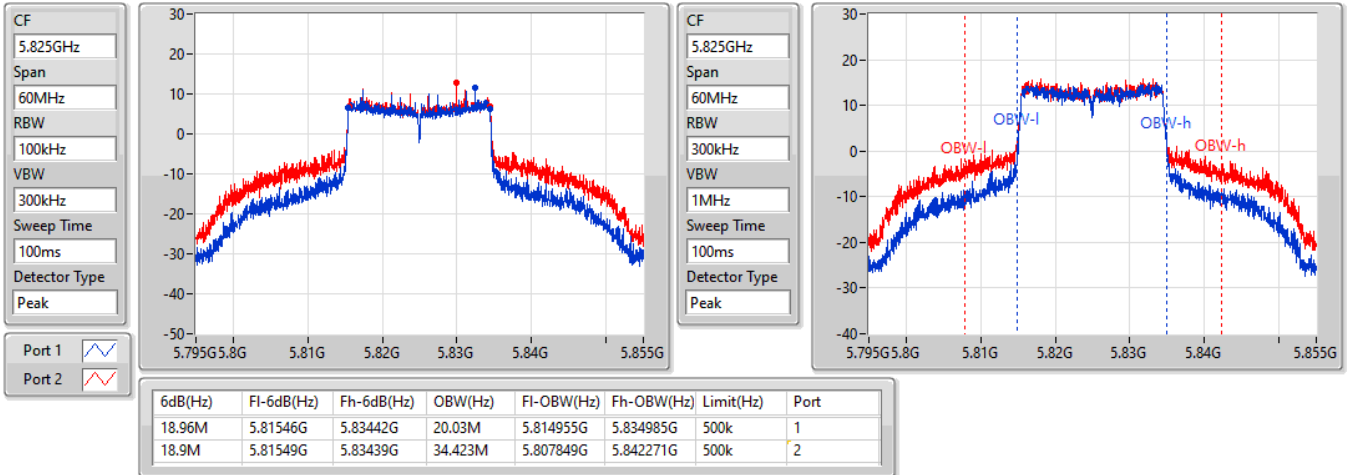

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5785MHz

08/08/2022

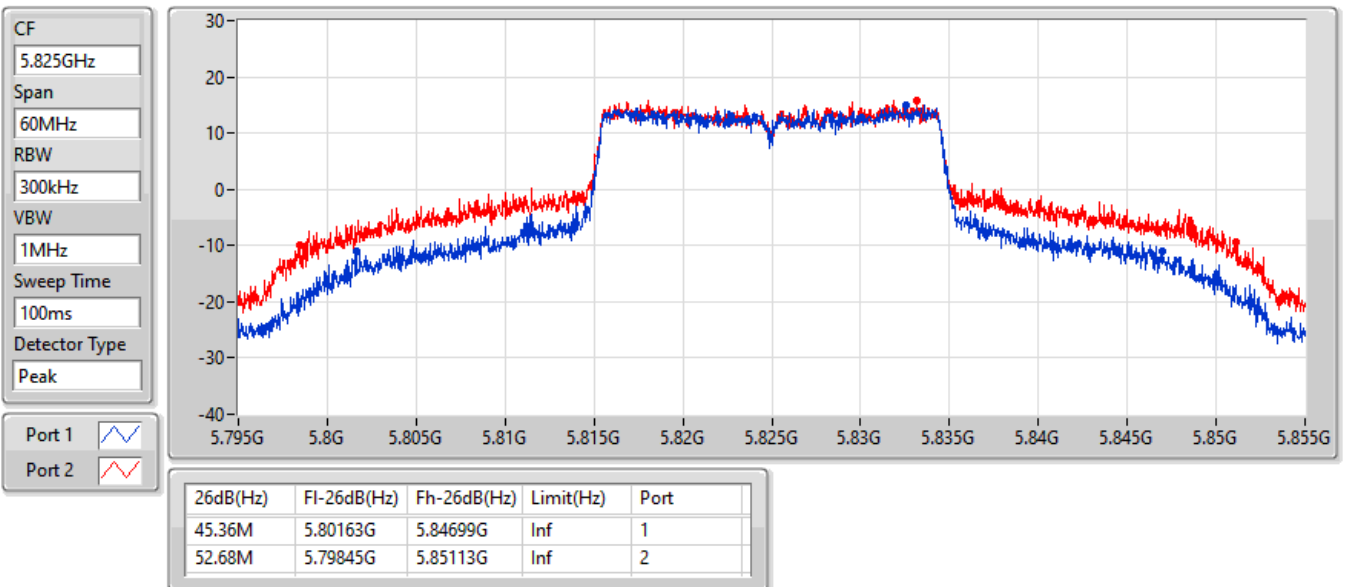


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5825MHz

08/08/2022

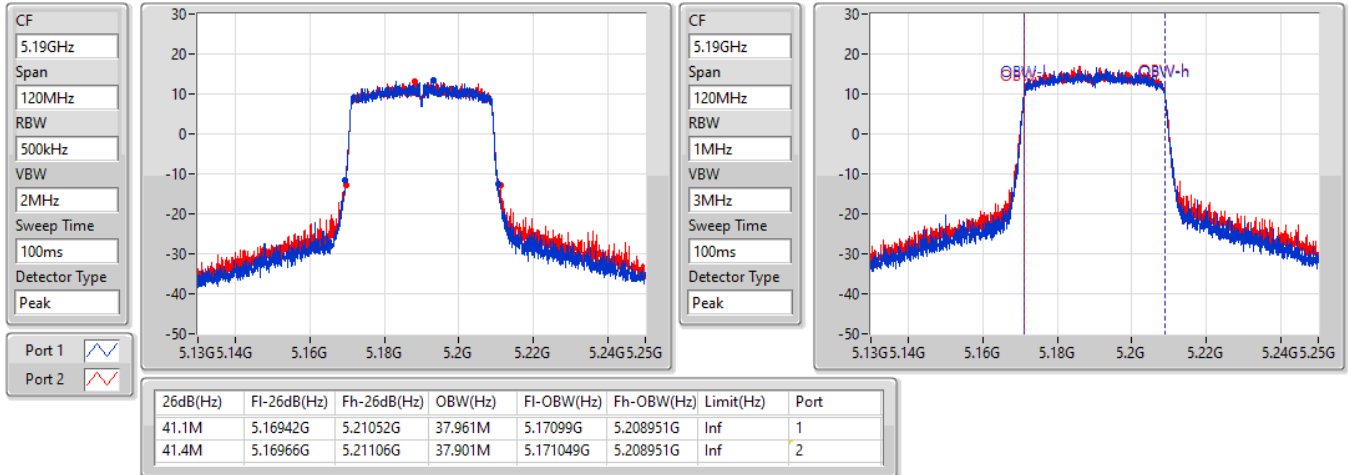

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5825MHz

08/08/2022

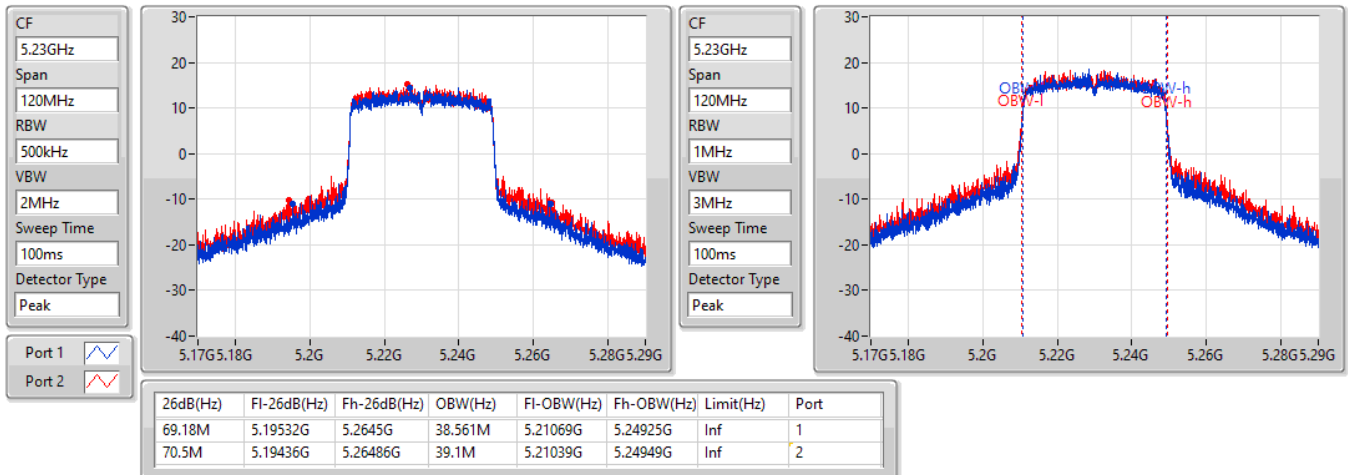


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5190MHz

08/08/2022

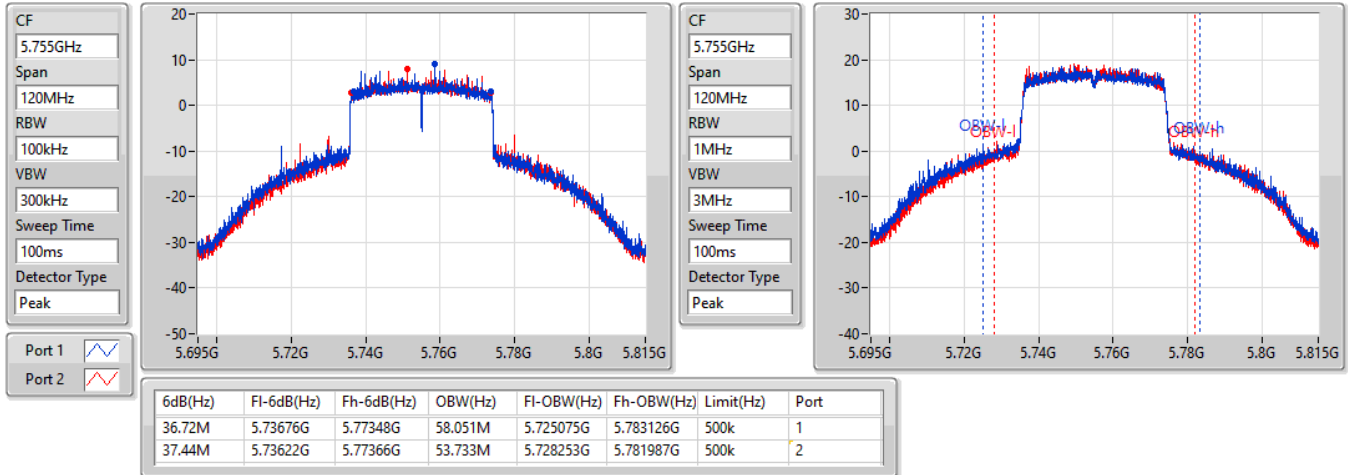

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5230MHz

08/08/2022

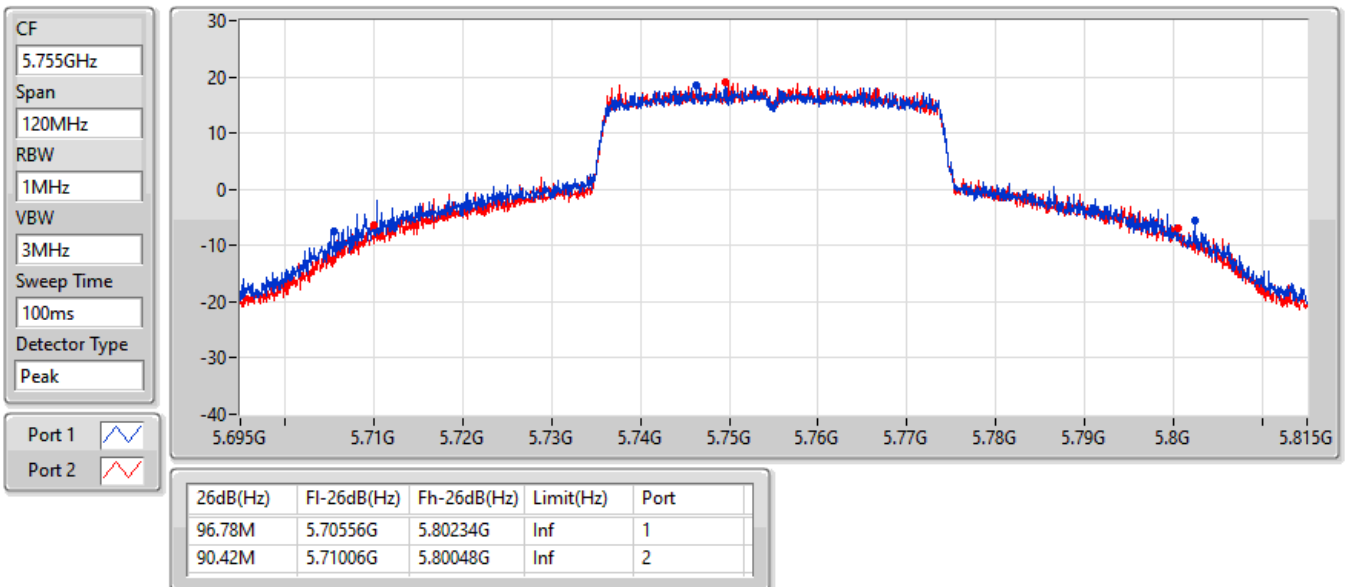


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

08/08/2022

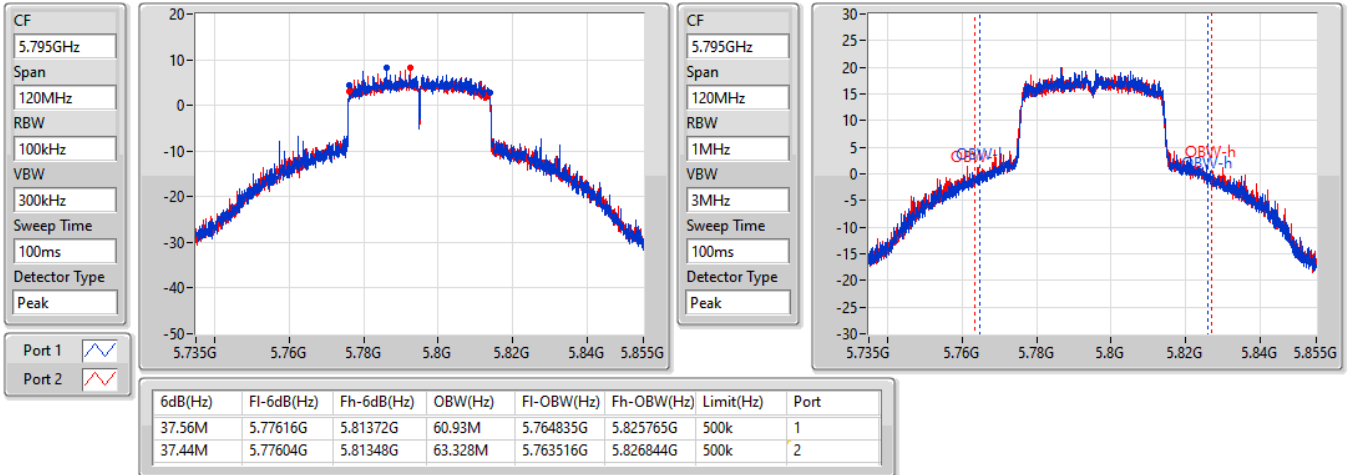

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

08/08/2022

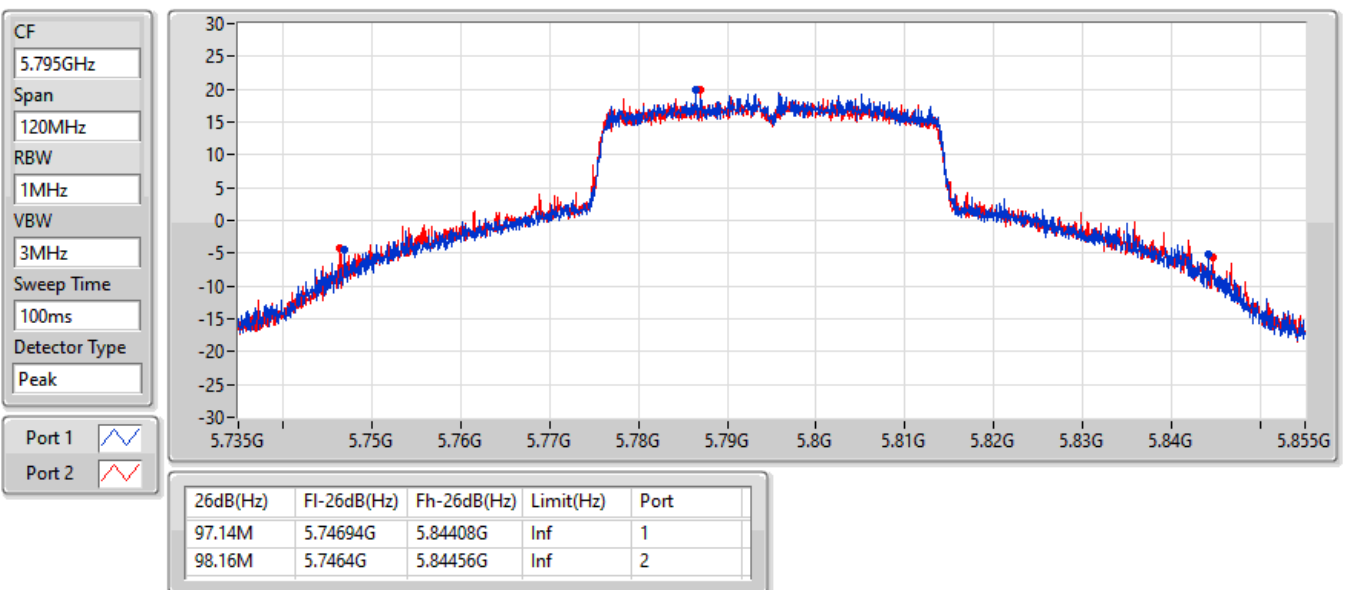


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

08/08/2022


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

08/08/2022

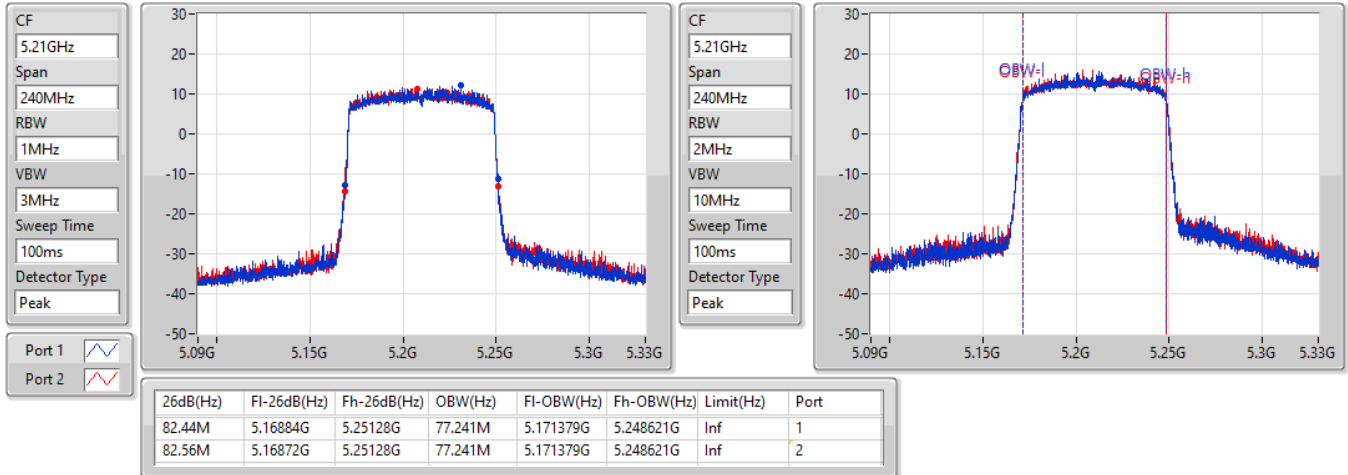


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

08/08/2022

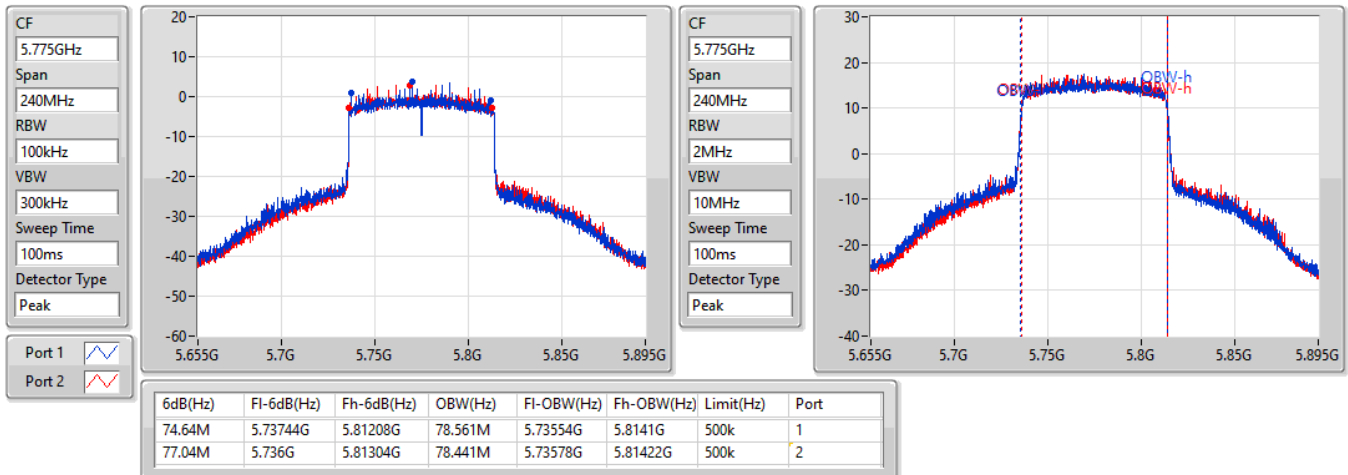


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

08/08/2022

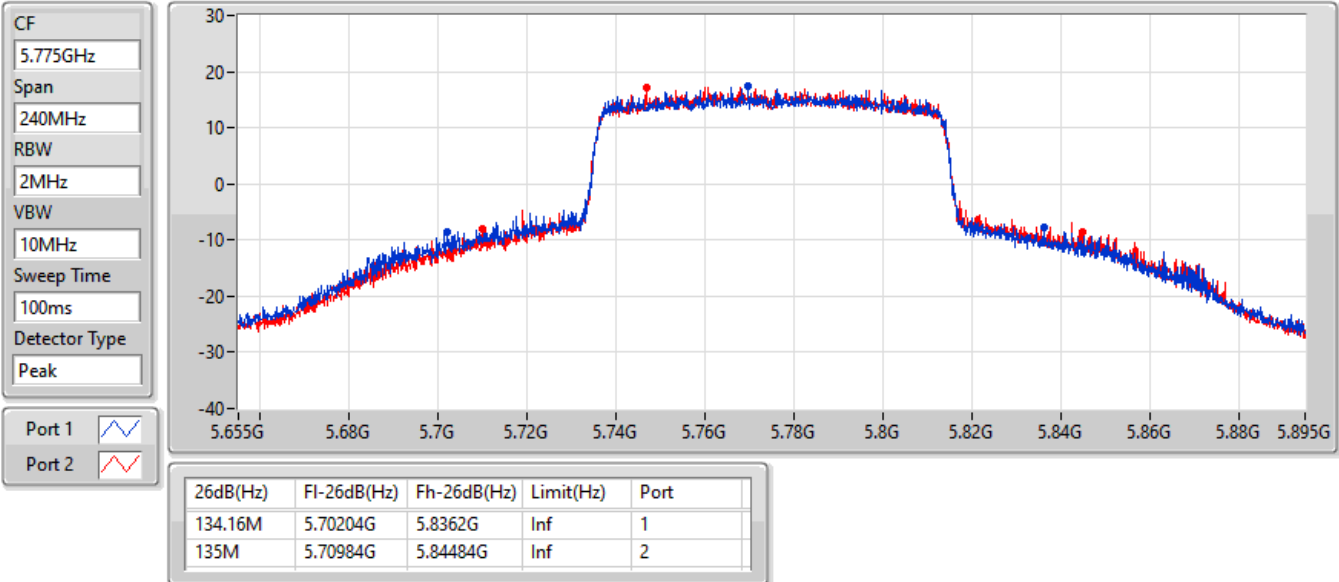


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

08/08/2022



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.26	0.33574
802.11ax HEW20_Nss1,(MCS0)_2TX	24.94	0.31189
802.11ax HEW40_Nss1,(MCS0)_2TX	23.74	0.23659
802.11ax HEW80_Nss1,(MCS0)_2TX	20.54	0.11324
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.82	0.38194
802.11ax HEW20_Nss1,(MCS0)_2TX	25.86	0.38548
802.11ax HEW40_Nss1,(MCS0)_2TX	26.14	0.41115
802.11ax HEW80_Nss1,(MCS0)_2TX	23.52	0.22491

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.99	20.03	20.15	23.10	30.00
5200MHz	Pass	5.99	22.04	22.45	25.26	30.00
5240MHz	Pass	5.99	20.92	21.09	24.02	30.00
5745MHz	Pass	5.92	22.71	22.91	25.82	30.00
5785MHz	Pass	5.92	22.51	21.86	25.21	30.00
5825MHz	Pass	5.92	22.22	22.80	25.53	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.99	19.94	20.16	23.06	30.00
5200MHz	Pass	5.99	21.74	22.12	24.94	30.00
5240MHz	Pass	5.99	21.18	21.39	24.30	30.00
5745MHz	Pass	5.92	22.76	22.93	25.86	30.00
5785MHz	Pass	5.92	22.66	22.57	25.63	30.00
5825MHz	Pass	5.92	22.44	22.85	25.66	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.99	19.03	19.19	22.12	30.00
5230MHz	Pass	5.99	20.49	20.96	23.74	30.00
5755MHz	Pass	5.92	22.61	22.81	25.72	30.00
5795MHz	Pass	5.92	23.18	23.07	26.14	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.99	17.43	17.62	20.54	30.00
5775MHz	Pass	5.92	20.41	20.60	23.52	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.94	0.31189
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.74	0.23659
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.54	0.11324
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.86	0.38548
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	26.14	0.41115
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.52	0.22491

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.71	19.94	20.16	23.06	27.29
5200MHz	Pass	8.71	21.74	22.12	24.94	27.29
5240MHz	Pass	8.71	21.18	21.39	24.30	27.29
5745MHz	Pass	8.93	22.76	22.93	25.86	27.07
5785MHz	Pass	8.93	22.66	22.57	25.63	27.07
5825MHz	Pass	8.93	22.44	22.85	25.66	27.07
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.71	19.03	19.19	22.12	27.29
5230MHz	Pass	8.71	20.49	20.96	23.74	27.29
5755MHz	Pass	8.93	22.61	22.81	25.72	27.07
5795MHz	Pass	8.93	23.18	23.07	26.14	27.07
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.71	17.43	17.62	20.54	27.29
5775MHz	Pass	8.93	20.41	20.60	23.52	27.07

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.13
802.11ax HEW20_Nss1,(MCS0)_2TX	12.18
802.11ax HEW40_Nss1,(MCS0)_2TX	8.17
802.11ax HEW80_Nss1,(MCS0)_2TX	2.12
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.69
802.11ax HEW20_Nss1,(MCS0)_2TX	11.21
802.11ax HEW40_Nss1,(MCS0)_2TX	8.19
802.11ax HEW80_Nss1,(MCS0)_2TX	2.75

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.71	8.00	8.28	11.08	14.29
5200MHz	Pass	8.71	10.02	10.46	13.13	14.29
5240MHz	Pass	8.71	9.02	9.29	12.13	14.29
5745MHz	Pass	8.93	8.84	8.84	11.69	27.07
5785MHz	Pass	8.93	8.28	8.31	11.26	27.07
5825MHz	Pass	8.93	7.87	8.50	11.17	27.07
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.71	7.29	7.60	10.34	14.29
5200MHz	Pass	8.71	8.99	9.41	12.18	14.29
5240MHz	Pass	8.71	8.59	8.92	11.71	14.29
5745MHz	Pass	8.93	8.17	8.32	11.21	27.07
5785MHz	Pass	8.93	8.16	7.88	10.91	27.07
5825MHz	Pass	8.93	7.78	8.01	10.83	27.07
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.71	3.57	3.84	6.66	14.29
5230MHz	Pass	8.71	4.97	5.48	8.17	14.29
5755MHz	Pass	8.93	4.74	4.89	7.77	27.07
5795MHz	Pass	8.93	5.44	5.07	8.19	27.07
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.71	-0.91	-0.73	2.12	14.29
5775MHz	Pass	8.93	-0.28	-0.16	2.75	27.07

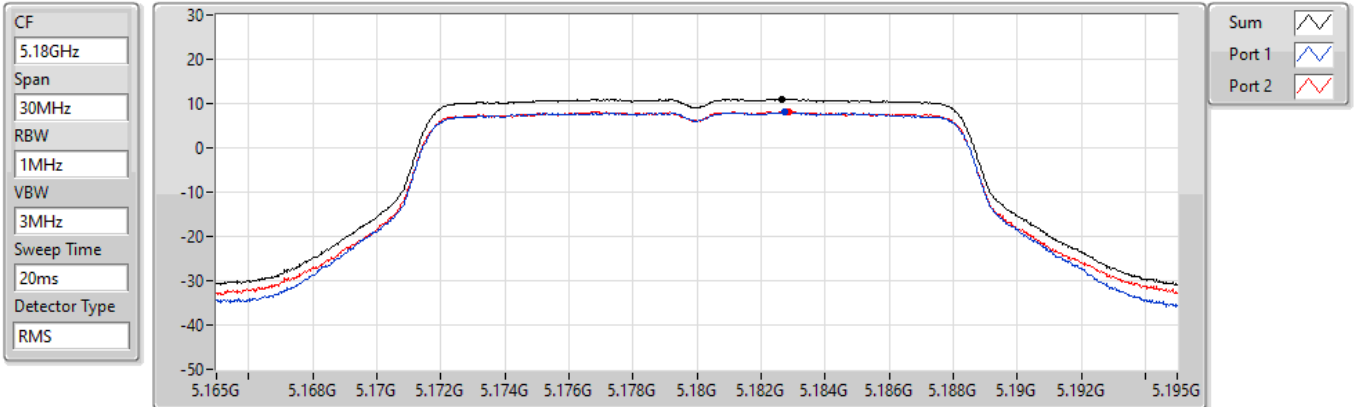
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

08/08/2022



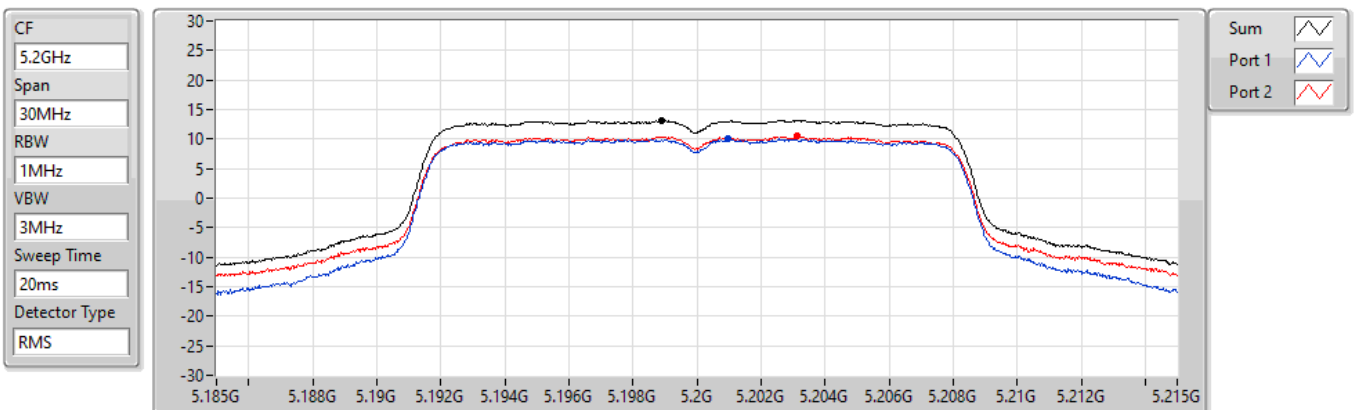
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.08	11.08	8.00	8.28

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

08/08/2022



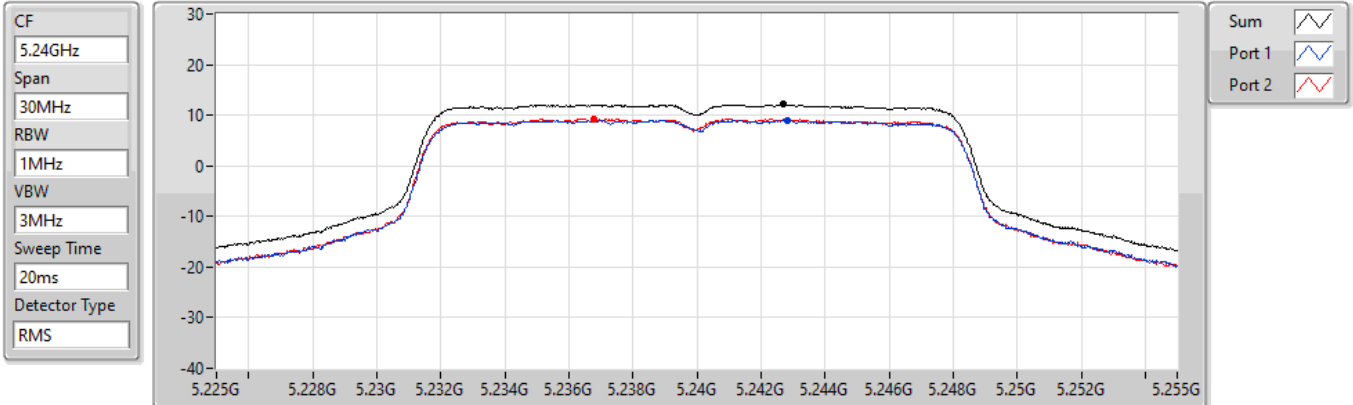
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.13	13.13	10.02	10.46

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

08/08/2022



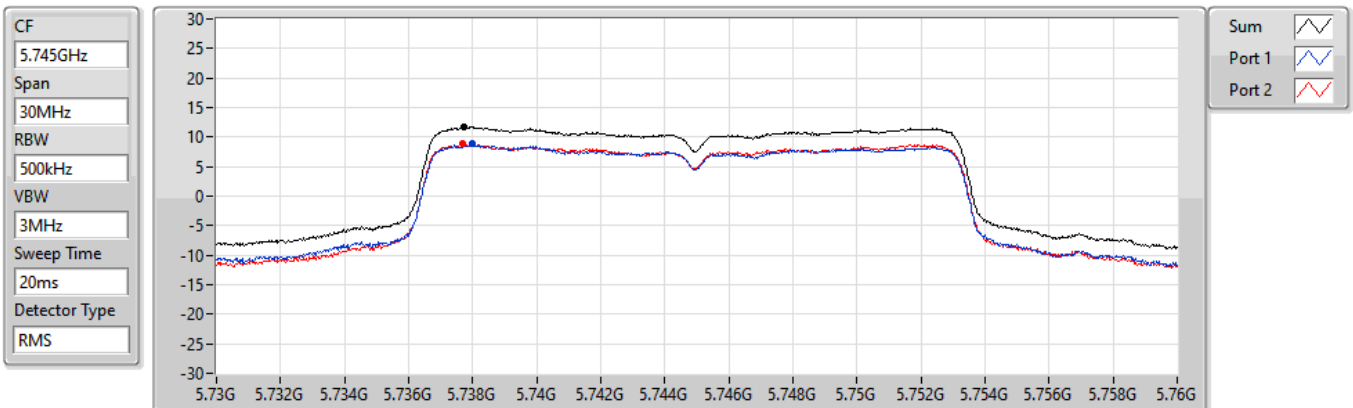
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.13	12.13	9.02	9.29

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

08/08/2022



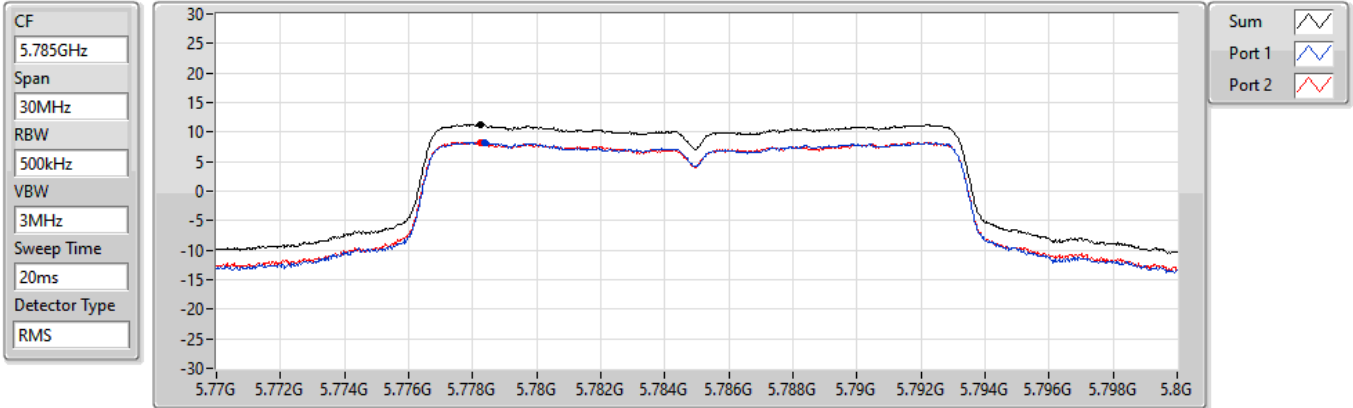
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.69	11.69	8.84	8.84

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

08/08/2022

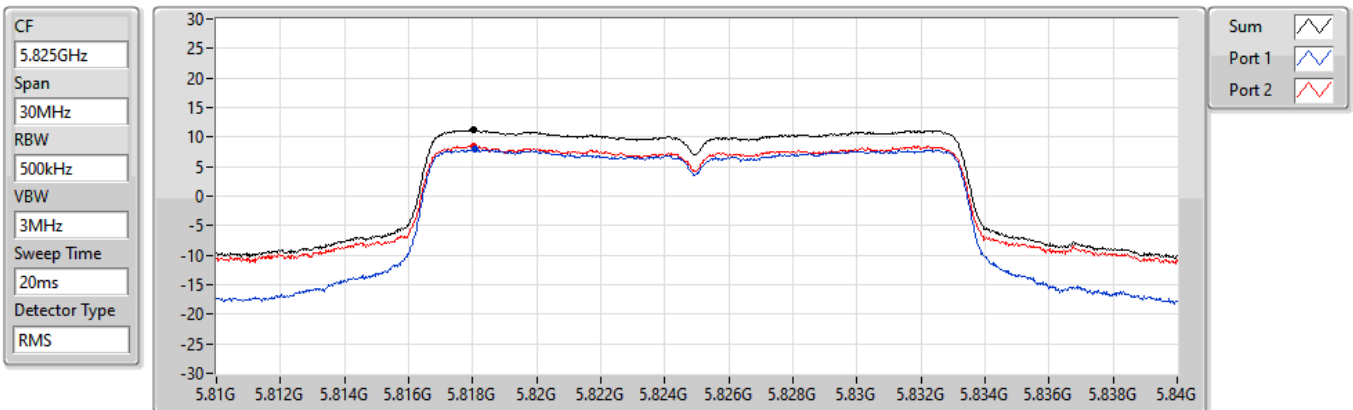


802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

08/08/2022

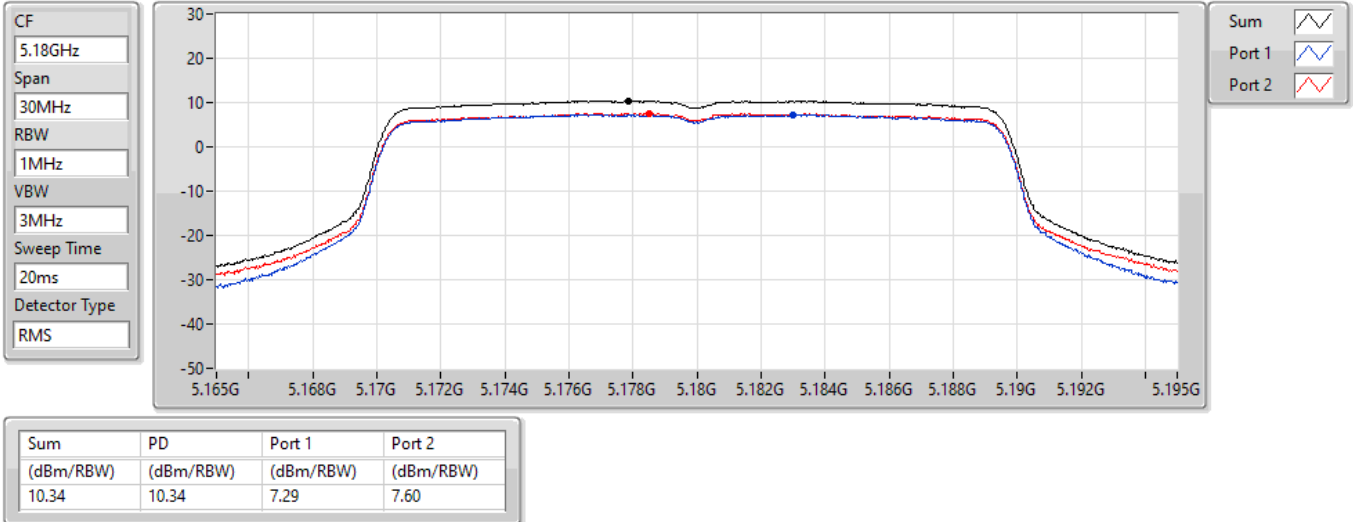


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

08/08/2022

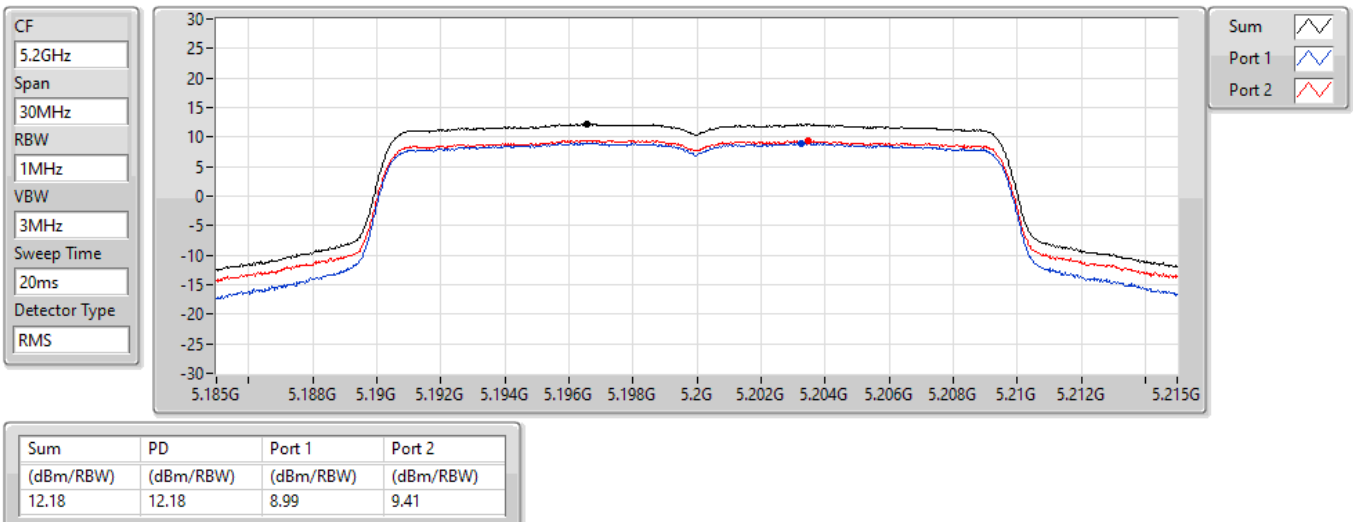


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

08/08/2022

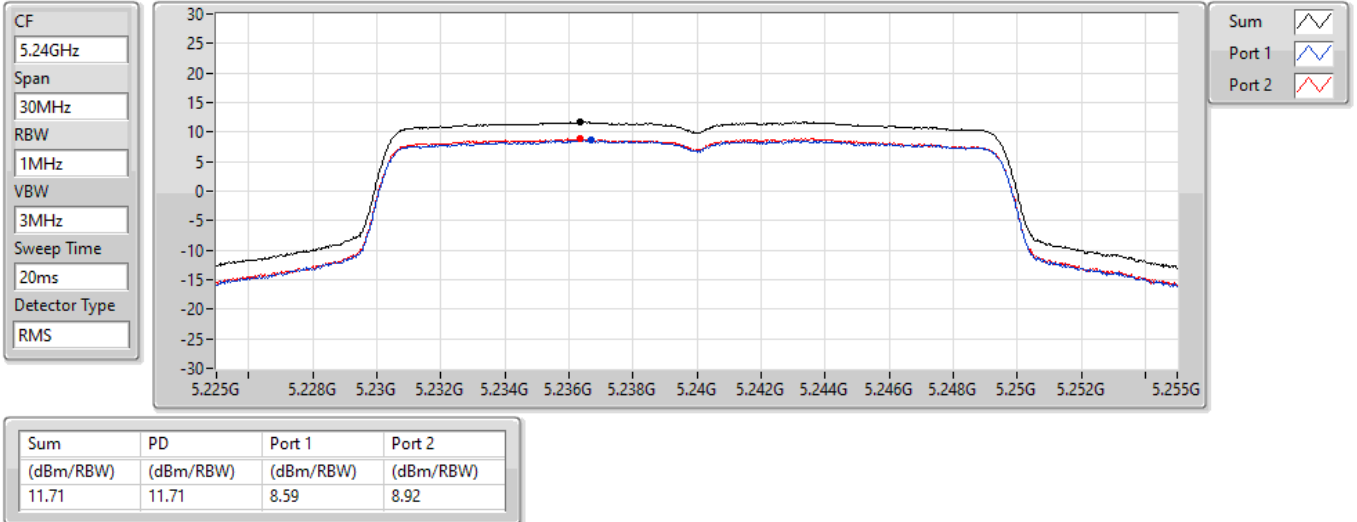


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

08/08/2022

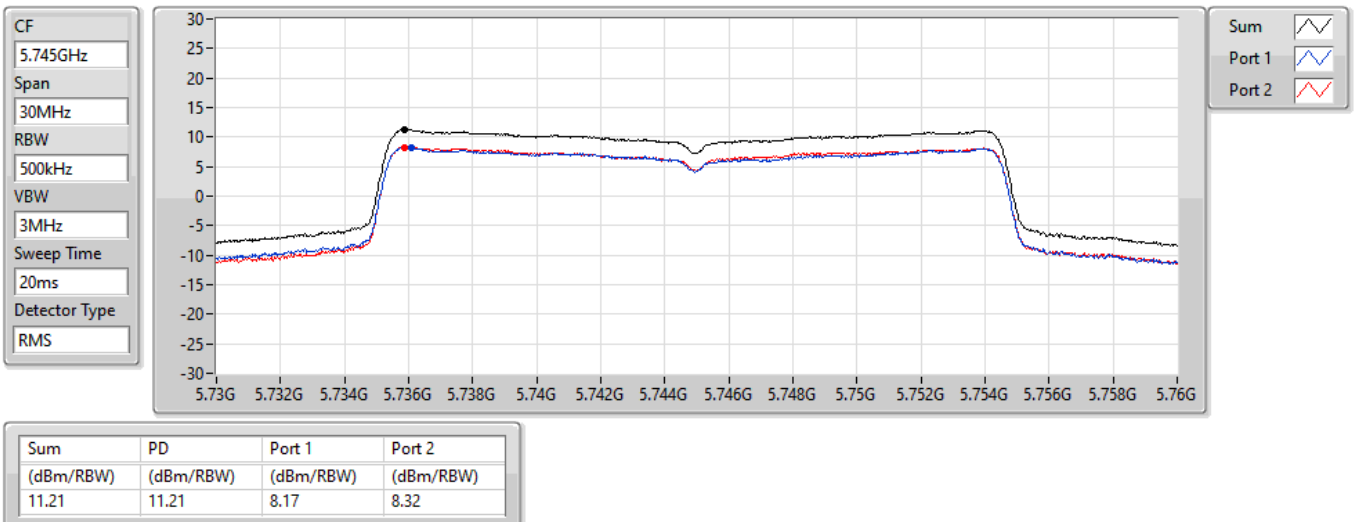


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

08/08/2022

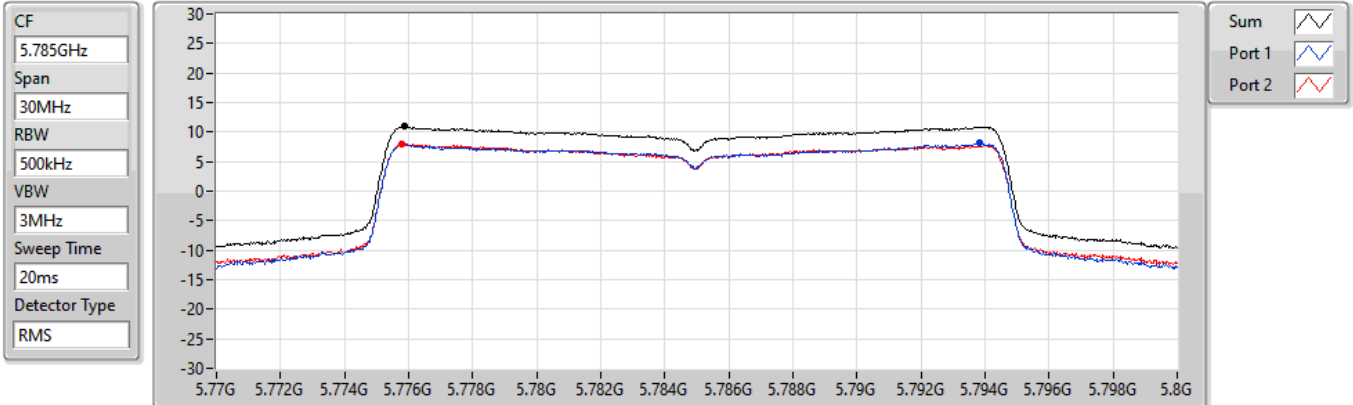


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

08/08/2022

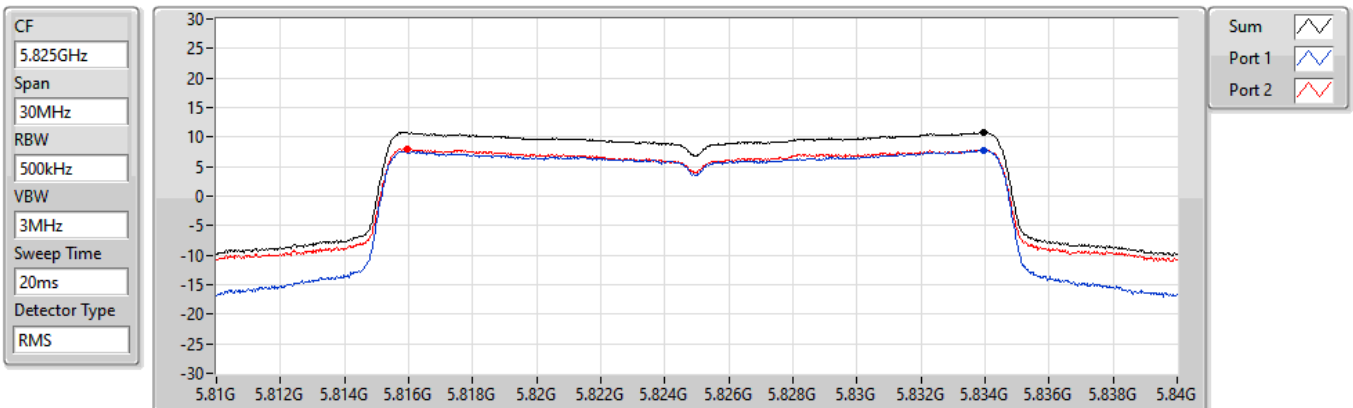


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

08/08/2022

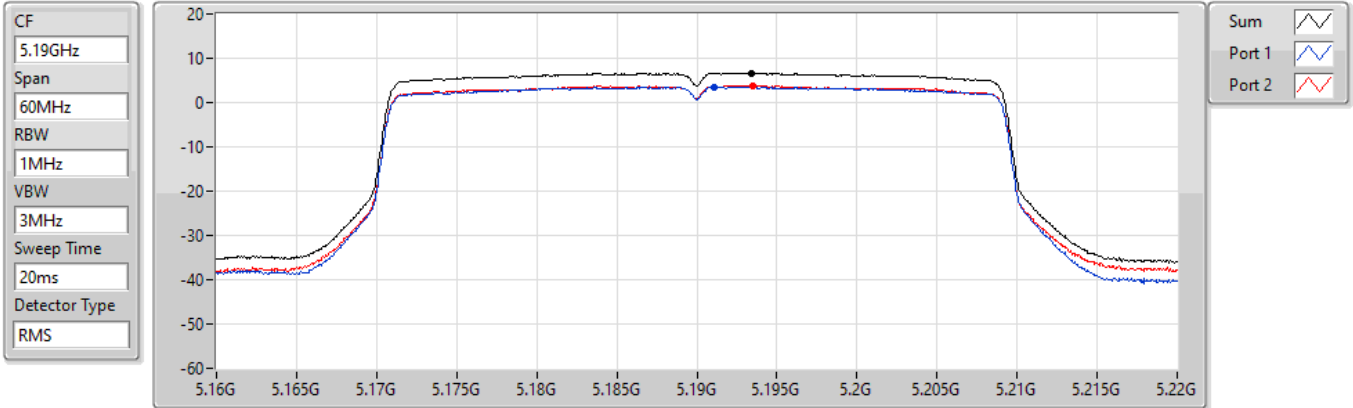


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

08/08/2022



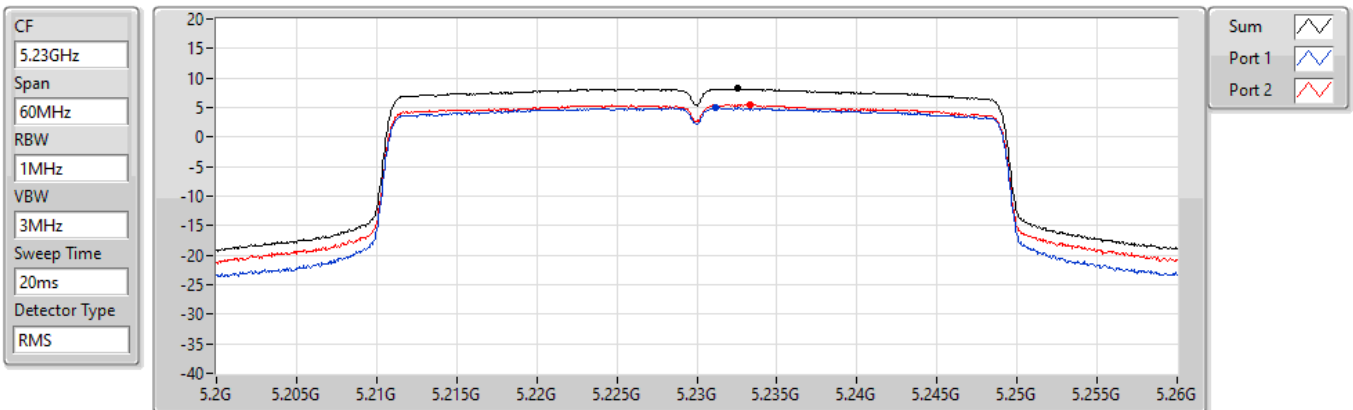
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.66	6.66	3.57	3.84

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

08/08/2022



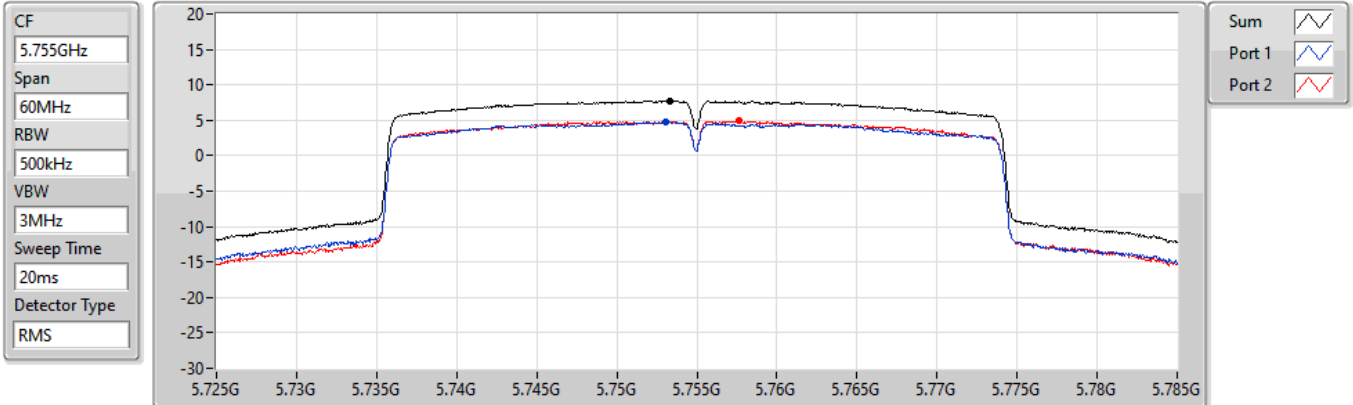
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.17	8.17	4.97	5.48

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

08/08/2022

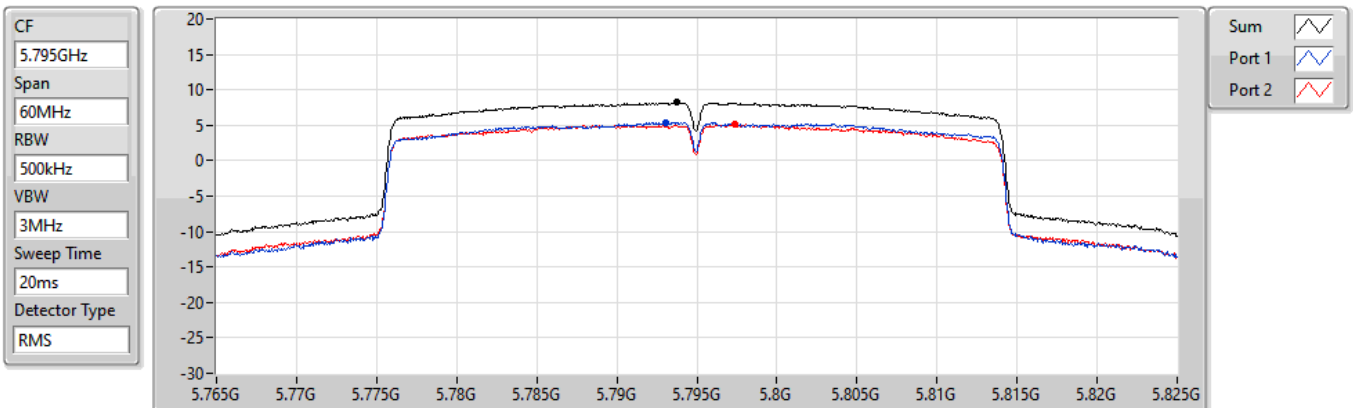


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

08/08/2022

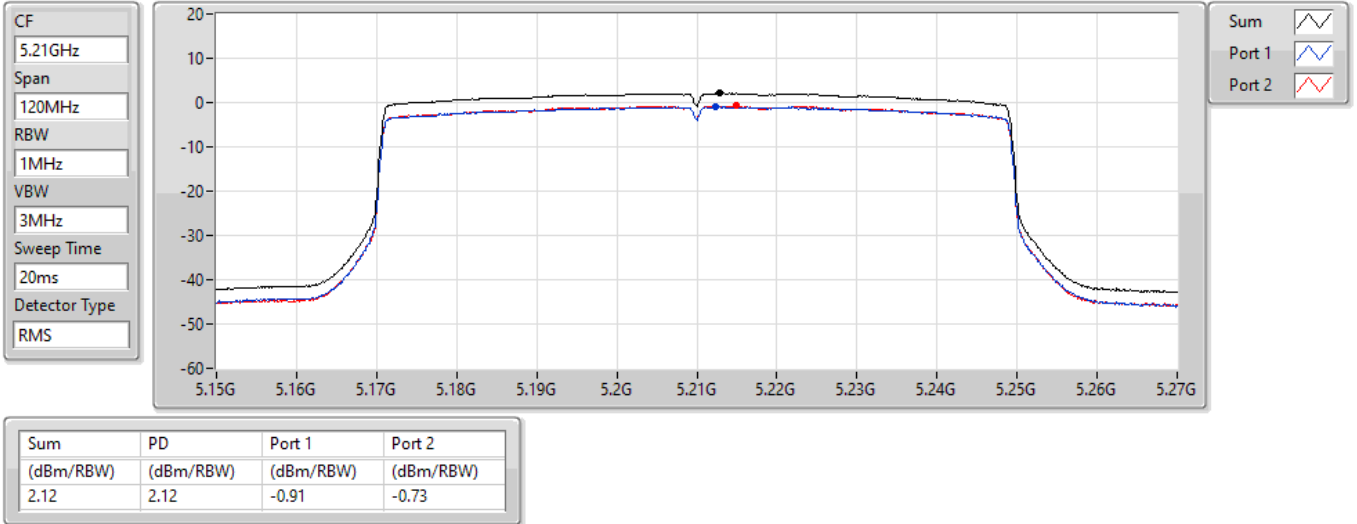


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

08/08/2022

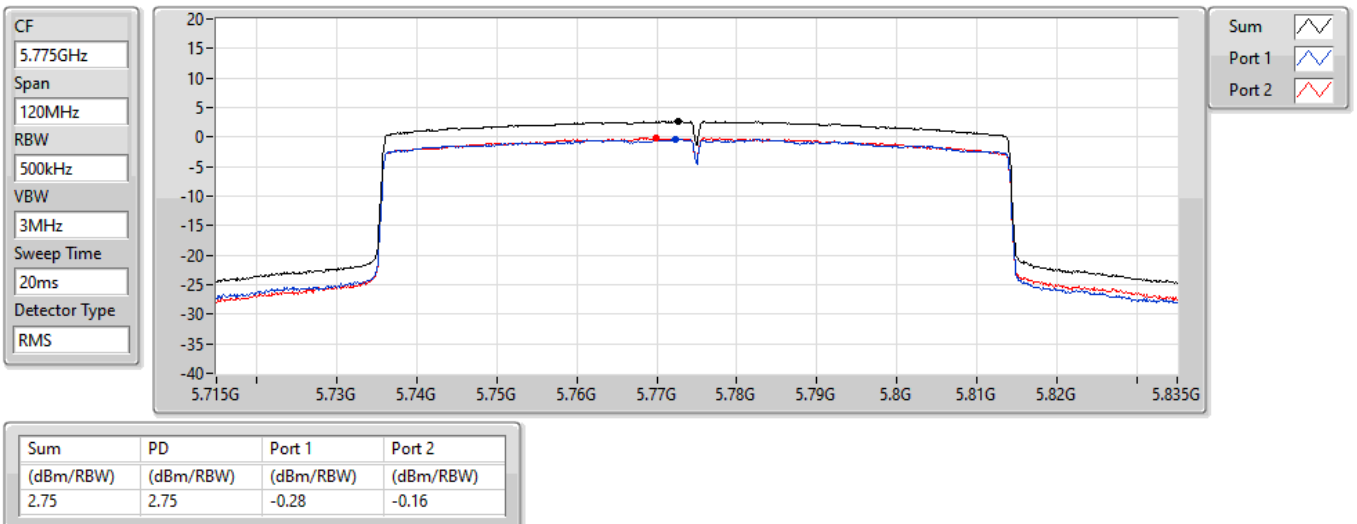


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

08/08/2022





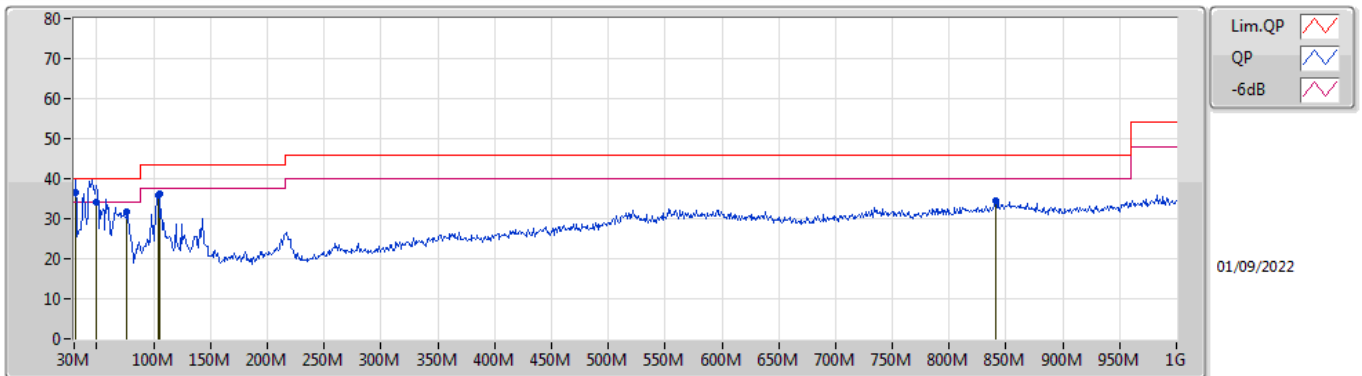
Radiated Emissions below 1GHz

Appendix E.1

Summary

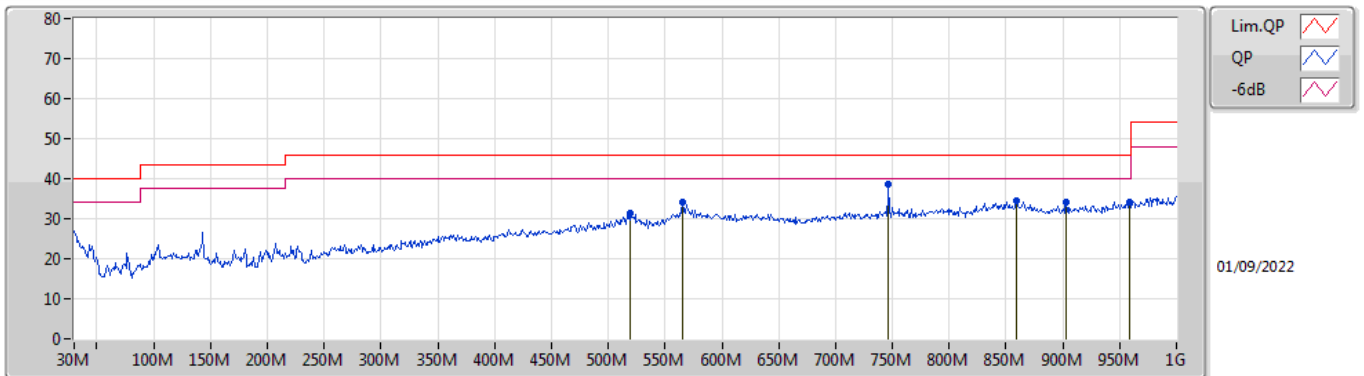
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	30.97M	36.57	40.00	-3.43	Vertical

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	30.97M	36.57	40.00	-3.43	-7.41	3	Vertical	6	1.00	"Worst"	43.98	24.02	1.00	32.43
QP	49.4M	34.17	40.00	-5.83	-16.56	3	Vertical	222	1.25	-	50.73	14.73	1.20	32.49
PK	76.56M	31.87	40.00	-8.13	-18.23	3	Vertical	158	2.00	-	50.10	12.64	1.53	32.40
PK	103.72M	35.85	43.50	-7.65	-13.36	3	Vertical	225	1.00	-	49.21	17.15	1.84	32.35
PK	104.69M	36.26	43.50	-7.24	-13.28	3	Vertical	225	1.00	-	49.54	17.22	1.85	32.35
PK	840.92M	34.36	46.00	-11.64	0.08	3	Vertical	181	1.00	-	34.28	26.09	5.66	31.67

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	518.88M	31.37	46.00	-14.63	-4.54	3	Horizontal	79	2.00	-	35.91	23.32	4.38	32.24
PK	565.44M	34.05	46.00	-11.95	-3.09	3	Horizontal	63	2.00	-	37.14	24.59	4.56	32.24
PK	746.83M	38.77	46.00	-7.23	-1.09	3	Horizontal	317	2.00	"Worst"	39.86	25.61	5.29	31.99
PK	859.35M	34.49	46.00	-11.51	0.41	3	Horizontal	360	1.50	-	34.08	26.24	5.74	31.57
PK	903M	34.14	46.00	-11.86	0.88	3	Horizontal	300	2.00	-	33.26	26.47	5.91	31.50
PK	958.29M	34.19	46.00	-11.81	1.93	3	Horizontal	26	1.50	-	32.26	26.78	6.13	30.98

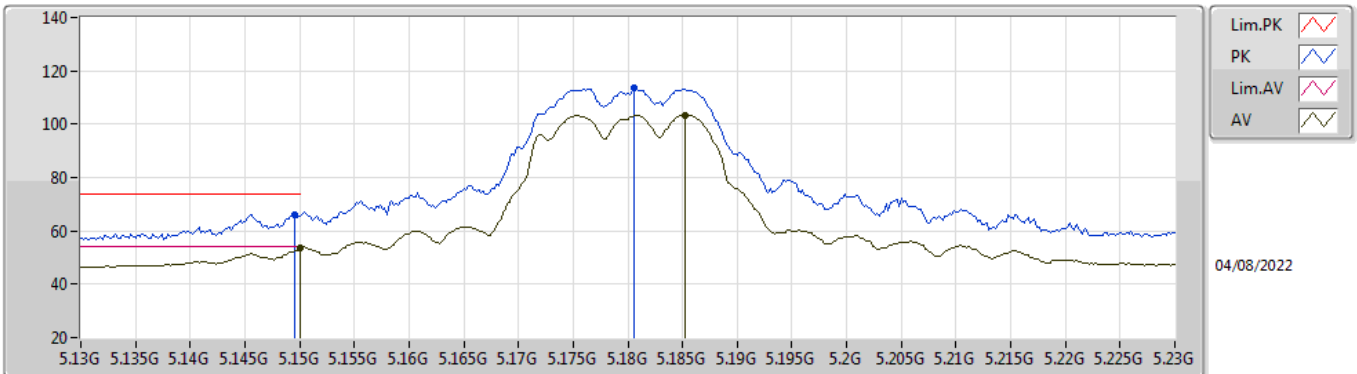


Summary

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	5.1448G	53.95	54.00	-0.05	3	Vertical	-0	2.28	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

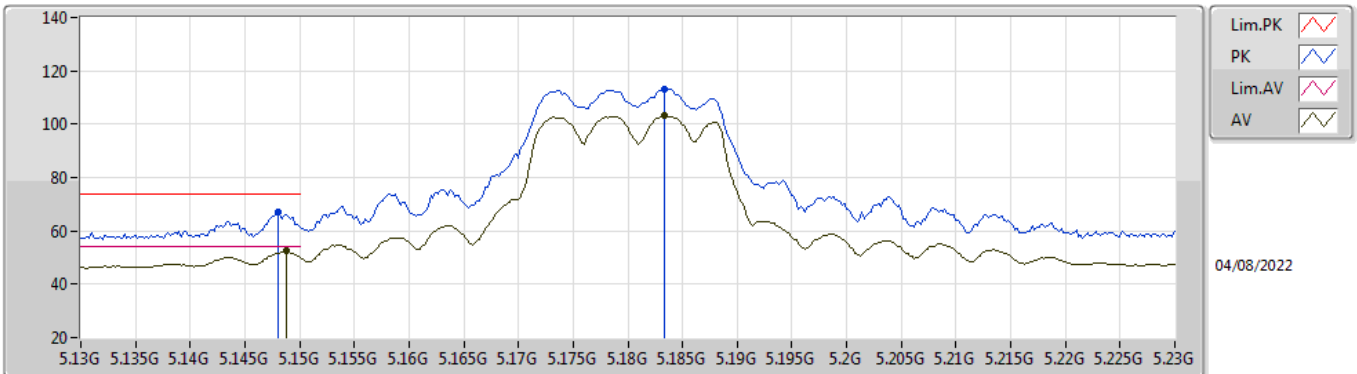


EUT_Z_2TX
Setting 20
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	65.97	74.00	-8.03	57.85	3	Vertical	360	2.10	-	33.60	5.25	30.73
AV	5.15G	53.46	54.00	-0.54	45.34	3	Vertical	360	2.10	-	33.60	5.25	30.73
PK	5.1806G	113.47	Inf	-Inf	105.26	3	Vertical	360	2.10	-	33.66	5.28	30.73
AV	5.1852G	103.47	Inf	-Inf	95.24	3	Vertical	360	2.10	-	33.67	5.29	30.73

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

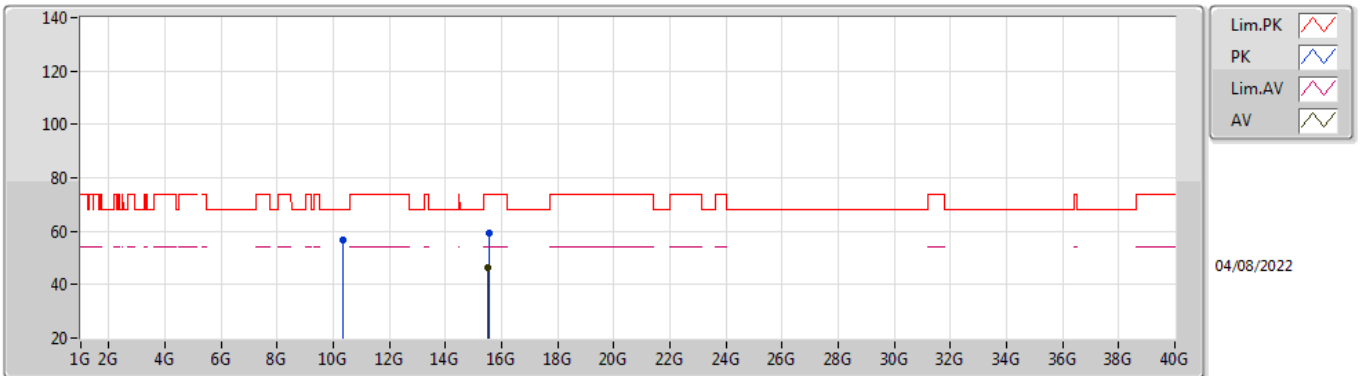


EUT_Z_2TX
Setting 20
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.148G	66.85	74.00	-7.15	58.73	3	Horizontal	142	2.49	-	33.60	5.25	30.73
AV	5.1488G	52.34	54.00	-1.66	44.22	3	Horizontal	142	2.49	-	33.60	5.25	30.73
PK	5.1834G	113.09	Inf	-Inf	104.87	3	Horizontal	142	2.49	-	33.67	5.28	30.73
AV	5.1834G	103.43	Inf	-Inf	95.21	3	Horizontal	142	2.49	-	33.67	5.28	30.73

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

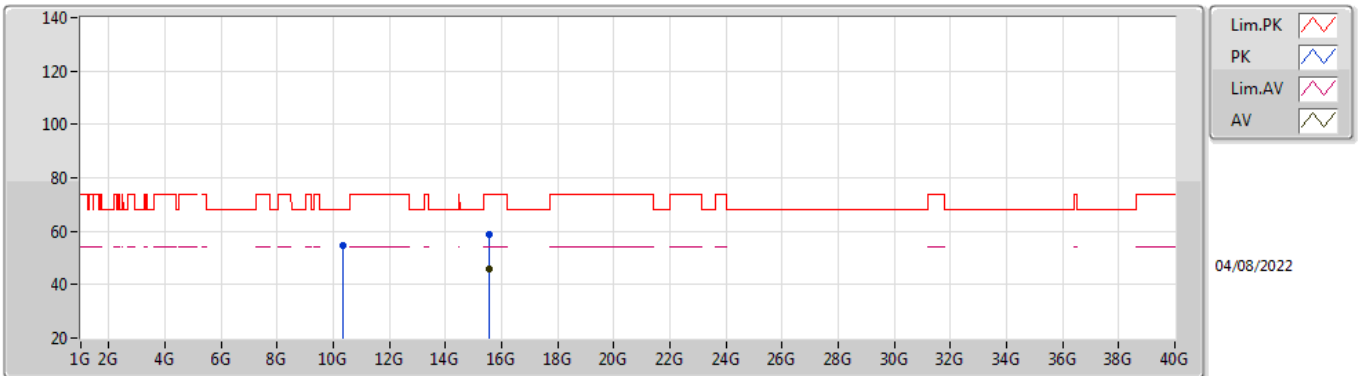


EUT_Z_2TX
Setting 20
02-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.35991G	56.61	68.20	-11.59	42.36	3	Vertical	297	2.33	-	38.64	7.44	31.83
PK	15.5454G	59.16	74.00	-14.84	42.88	3	Vertical	115	1.80	-	37.83	9.80	31.35
AV	15.5298G	46.13	54.00	-7.87	29.77	3	Vertical	115	1.80	-	37.92	9.79	31.35

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TnomVnom

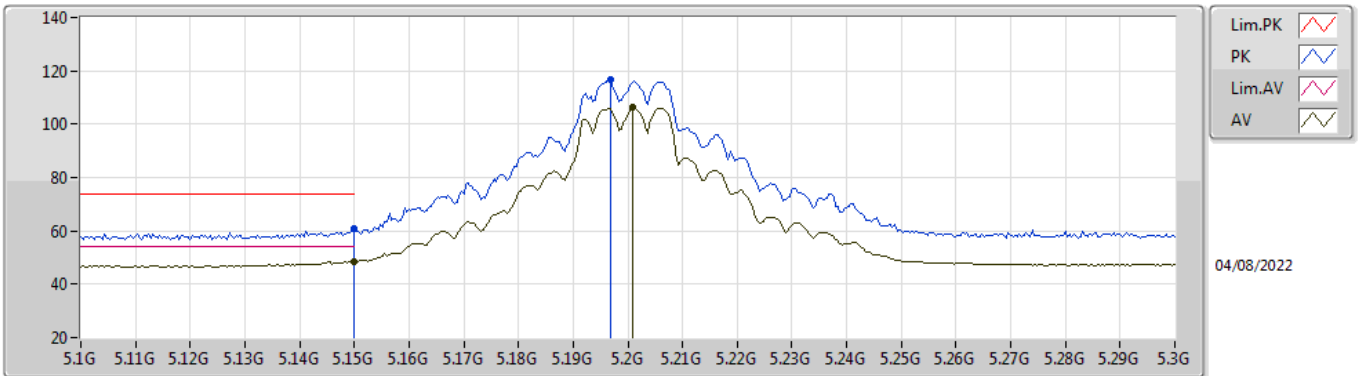


EUT_Z_2TX
Setting 20
02-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.35972G	54.83	68.20	-13.37	40.58	3	Horizontal	109	1.88	-	38.64	7.44	31.83
PK	15.53952G	58.99	74.00	-15.01	42.69	3	Horizontal	251	2.48	-	37.86	9.79	31.35
AV	15.53953G	45.87	54.00	-8.13	29.57	3	Horizontal	251	2.48	-	37.86	9.79	31.35

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

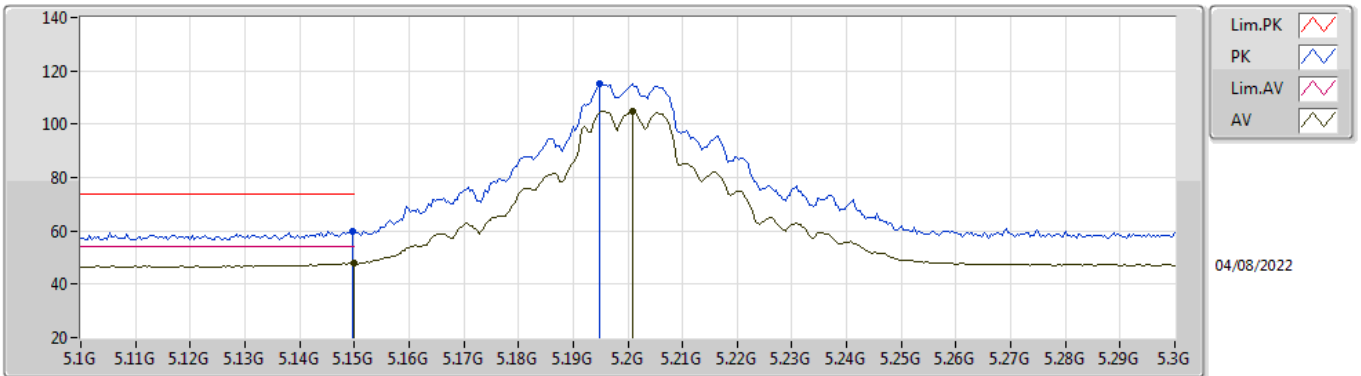


EUT_Z_2TX
Setting 22
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	60.81	74.00	-13.19	52.69	3	Vertical	357	1.99	-	33.60	5.25	30.73
AV	5.15G	48.61	54.00	-5.39	40.49	3	Vertical	357	1.99	-	33.60	5.25	30.73
PK	5.1968G	116.70	Inf	-Inf	108.44	3	Vertical	357	1.99	-	33.69	5.30	30.73
AV	5.2008G	106.15	Inf	-Inf	97.88	3	Vertical	357	1.99	-	33.70	5.30	30.73

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

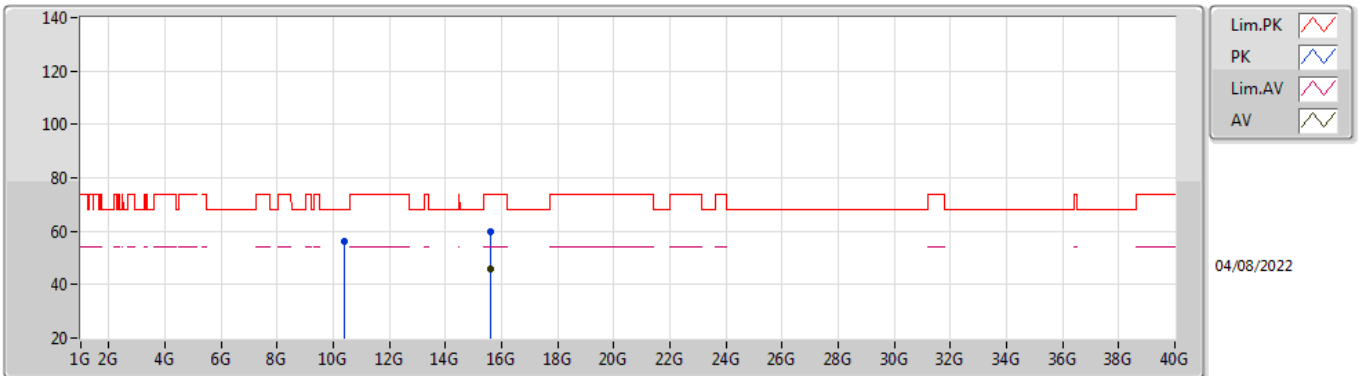


EUT_Z_2TX
Setting 22
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	59.82	74.00	-14.18	51.70	3	Horizontal	326	2.68	-	33.60	5.25	30.73
AV	5.15G	47.79	54.00	-6.21	39.67	3	Horizontal	326	2.68	-	33.60	5.25	30.73
PK	5.1948G	115.14	Inf	-Inf	106.89	3	Horizontal	326	2.68	-	33.69	5.29	30.73
AV	5.2008G	104.98	Inf	-Inf	96.71	3	Horizontal	326	2.68	-	33.70	5.30	30.73

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

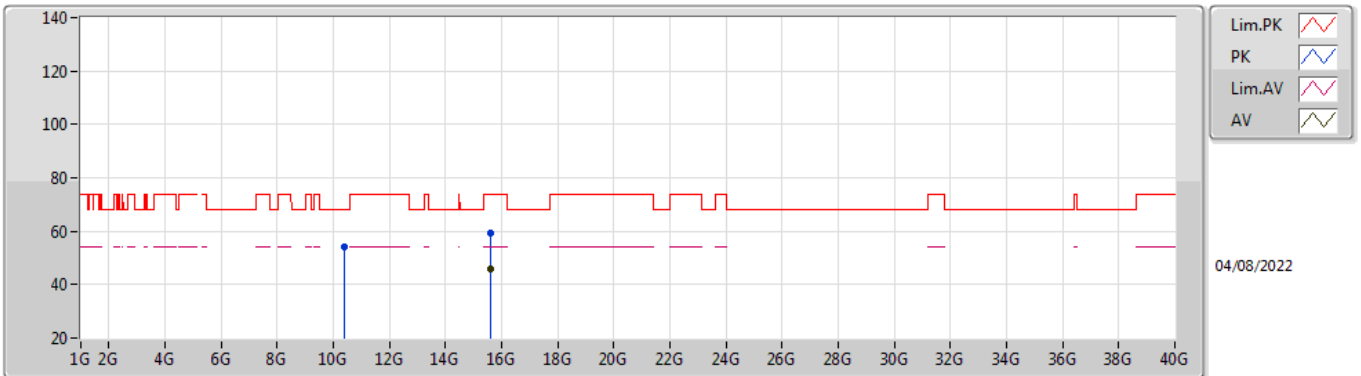


EUT_Z_2TX
Setting 22
02-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.40004G	56.41	68.20	-11.79	42.18	3	Vertical	245	2.38	-	38.60	7.46	31.83
PK	15.599G	59.94	74.00	-14.06	43.99	3	Vertical	141	1.80	-	37.51	9.82	31.38
AV	15.60548G	46.02	54.00	-7.98	30.08	3	Vertical	141	1.80	-	37.50	9.82	31.38

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TnomVnom

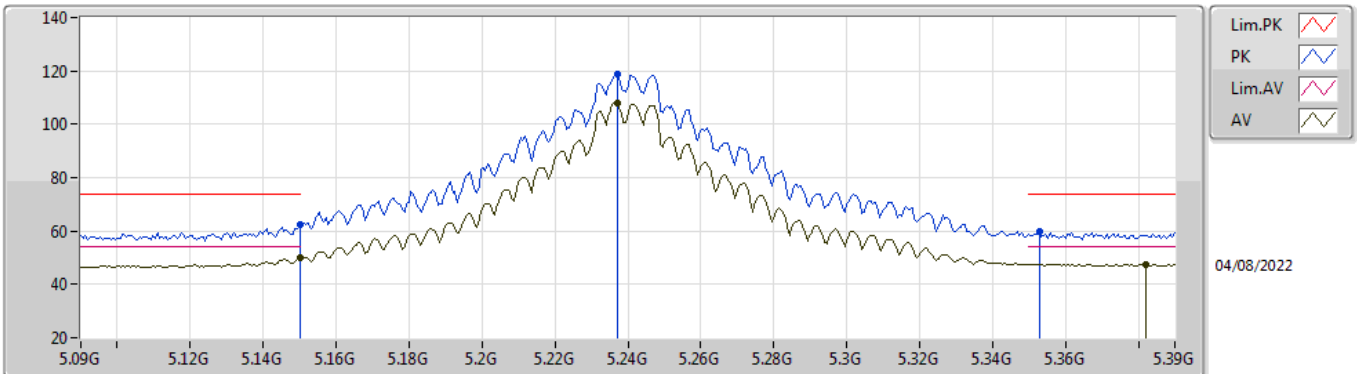


EUT_Z_2TX
Setting 22
02-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.39966G	54.28	68.20	-13.92	40.05	3	Horizontal	108	1.90	-	38.60	7.46	31.83
PK	15.59356G	59.48	74.00	-14.52	43.50	3	Horizontal	254	2.99	-	37.54	9.82	31.38
AV	15.60676G	46.00	54.00	-8.00	30.07	3	Horizontal	254	2.99	-	37.50	9.82	31.39

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

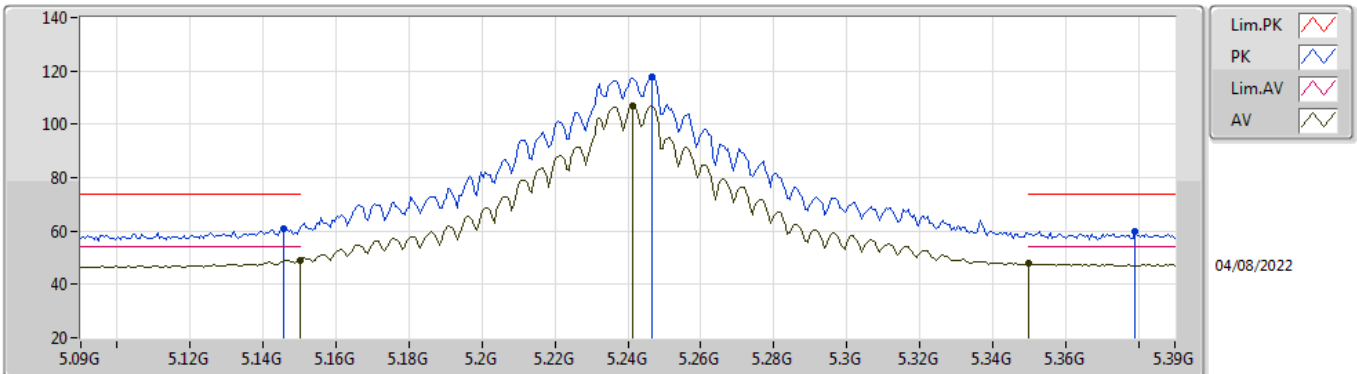


EUT_Z_2TX
Setting 23
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	62.23	74.00	-11.77	54.11	3	Vertical	334	2.26	-	33.60	5.25	30.73
AV	5.15G	50.20	54.00	-3.80	42.08	3	Vertical	334	2.26	-	33.60	5.25	30.73
PK	5.237G	118.55	Inf	-Inf	110.26	3	Vertical	334	2.26	-	33.70	5.32	30.73
AV	5.237G	107.85	Inf	-Inf	99.56	3	Vertical	334	2.26	-	33.70	5.32	30.73
PK	5.3528G	59.70	74.00	-14.30	51.13	3	Vertical	334	2.26	-	33.91	5.38	30.72
AV	5.3822G	47.61	54.00	-6.39	38.98	3	Vertical	334	2.26	-	33.96	5.39	30.72

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

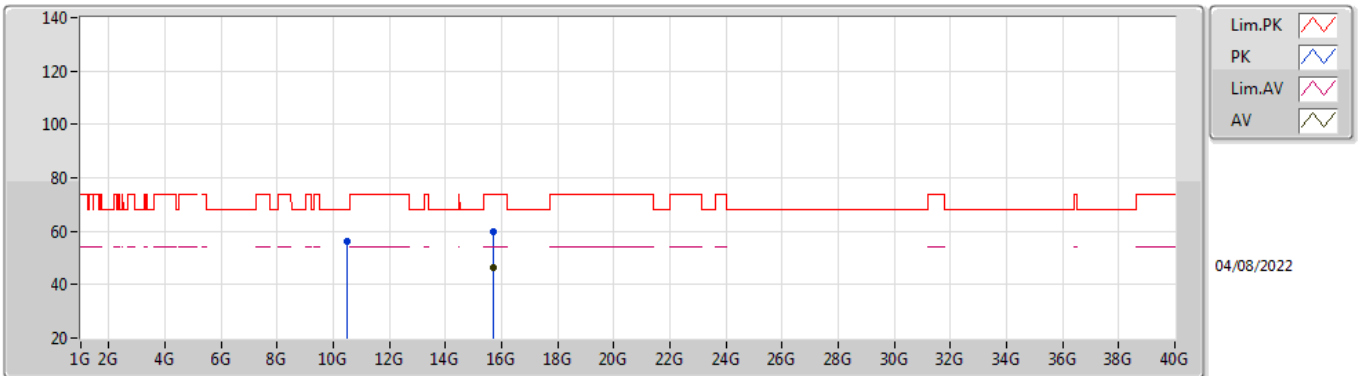


EUT_Z_2TX
Setting 23
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1458G	60.90	74.00	-13.10	52.79	3	Horizontal	143	2.68	-	33.59	5.25	30.73
AV	5.15G	49.06	54.00	-4.94	40.94	3	Horizontal	143	2.68	-	33.60	5.25	30.73
PK	5.2466G	117.90	Inf	-Inf	109.61	3	Horizontal	143	2.68	-	33.70	5.32	30.73
AV	5.2412G	107.01	Inf	-Inf	98.72	3	Horizontal	143	2.68	-	33.70	5.32	30.73
PK	5.3792G	59.87	74.00	-14.13	51.24	3	Horizontal	143	2.68	-	33.96	5.39	30.72
AV	5.35G	47.71	54.00	-6.29	39.15	3	Horizontal	143	2.68	-	33.90	5.38	30.72

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

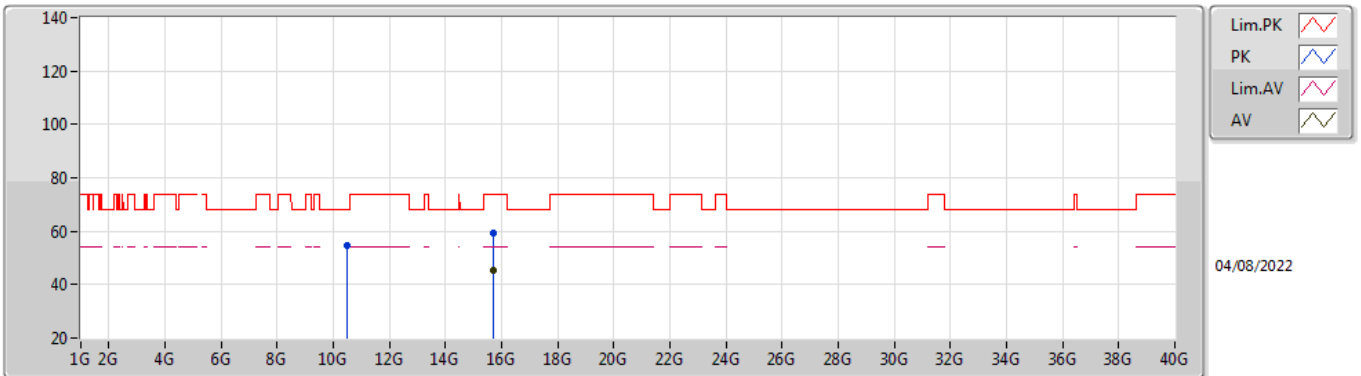


EUT_Z_2TX
Setting 23
02-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47994G	56.28	68.20	-11.92	42.04	3	Vertical	296	1.97	-	38.60	7.49	31.85
PK	15.72002G	59.84	74.00	-14.16	43.91	3	Vertical	281	2.52	-	37.50	9.87	31.44
AV	15.72011G	46.20	54.00	-7.80	30.27	3	Vertical	281	2.52	-	37.50	9.87	31.44

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TnomVnom

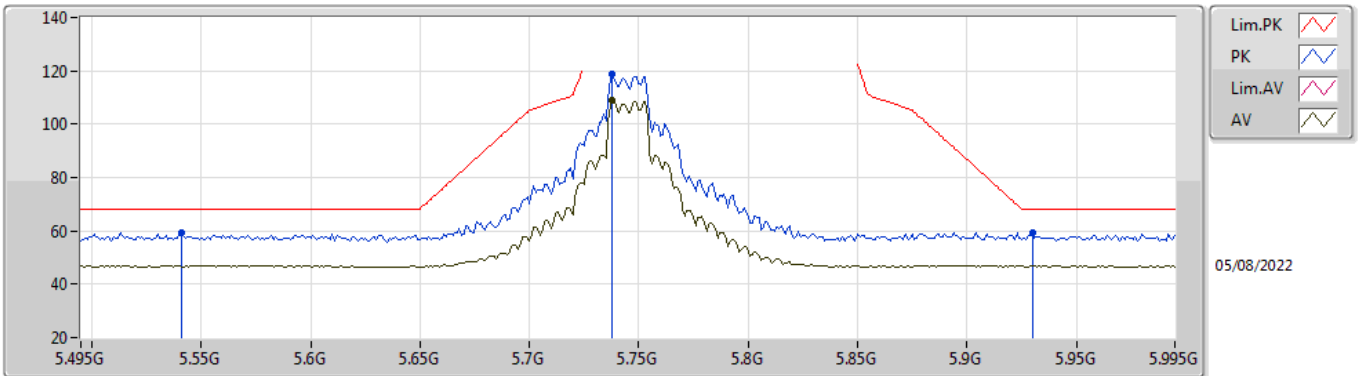


EUT_Z_2TX
Setting 23
02-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.4799G	54.55	68.20	-13.65	40.31	3	Horizontal	159	1.90	-	38.60	7.49	31.85
PK	15.72046G	59.11	74.00	-14.89	43.18	3	Horizontal	65	2.42	-	37.50	9.87	31.44
AV	15.72011G	45.46	54.00	-8.54	29.53	3	Horizontal	65	2.42	-	37.50	9.87	31.44

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

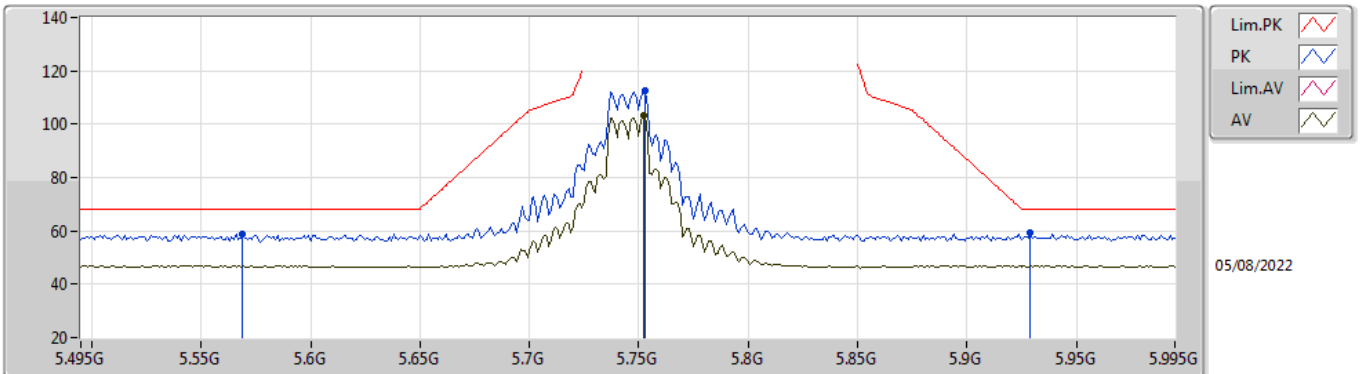


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.541G	59.29	68.20	-8.91	50.50	3	Vertical	272	2.25	-	34.00	5.54	30.75	
PK	5.738G	118.63	Inf	-Inf	110.11	3	Vertical	272	2.25	-	33.82	5.60	30.90	
AV	5.738G	108.83	Inf	-Inf	100.31	3	Vertical	272	2.25	-	33.82	5.60	30.90	
PK	5.93G	59.12	68.20	-9.08	50.28	3	Vertical	272	2.25	-	34.16	5.73	31.05	

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

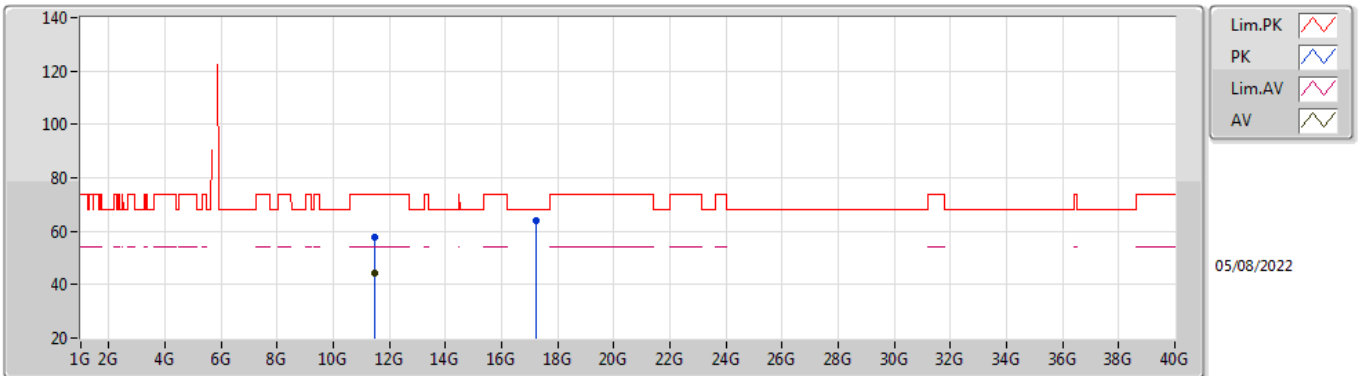


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.569G	58.76	68.20	-9.44	50.00	3	Horizontal	216	2.28	-	33.96	5.57	30.77	
PK	5.753G	112.79	Inf	-Inf	104.30	3	Horizontal	216	2.28	-	33.80	5.60	30.91	
AV	5.752G	103.50	Inf	-Inf	95.01	3	Horizontal	216	2.28	-	33.80	5.60	30.91	
PK	5.929G	59.08	68.20	-9.12	50.24	3	Horizontal	216	2.28	-	34.16	5.73	31.05	

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

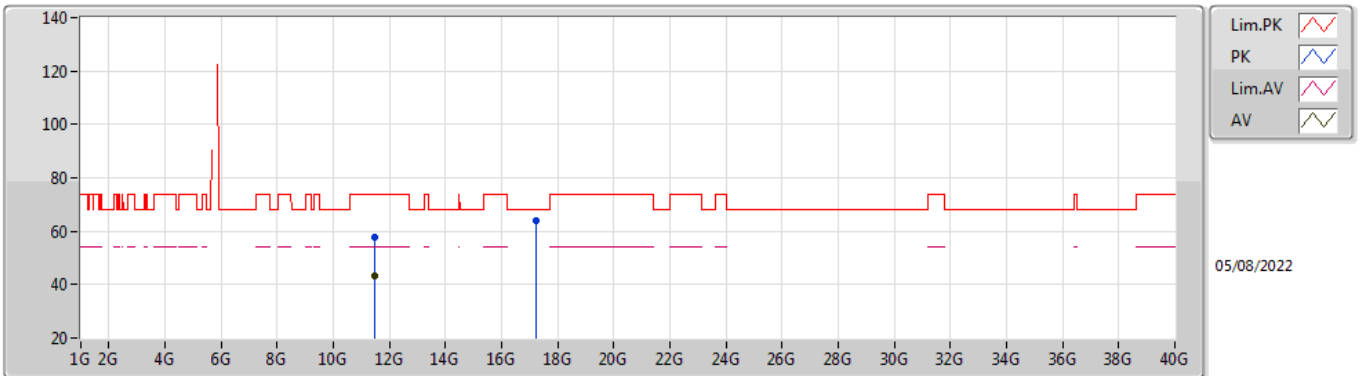


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.48544G	57.52	74.00	-16.48	42.77	3	Vertical	74	1.26	-	38.97	7.89	32.11
AV	11.48992G	44.10	54.00	-9.90	29.34	3	Vertical	74	1.26	-	38.98	7.90	32.12
PK	17.23032G	63.80	68.20	-4.40	41.27	3	Vertical	211	2.38	-	42.15	10.62	30.24

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TnomVnom

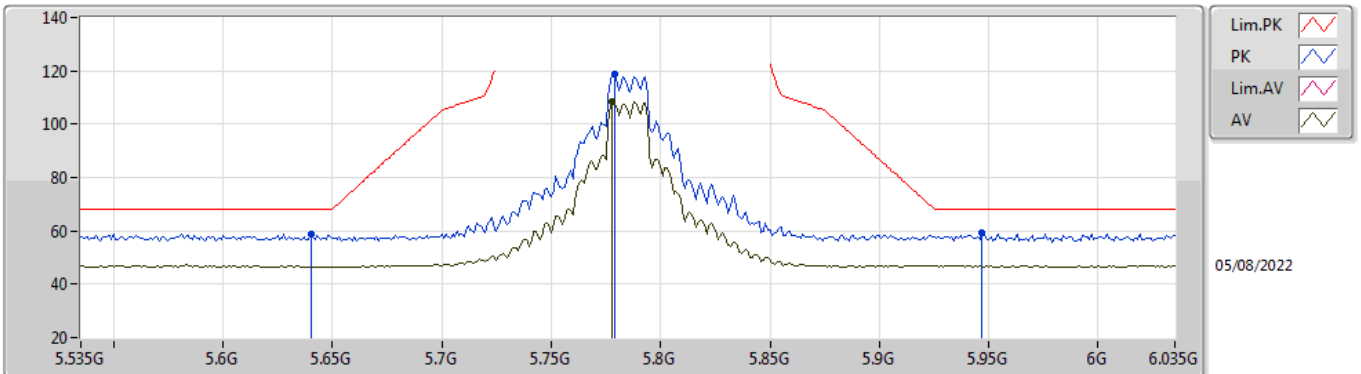


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.48764G	57.68	74.00	-16.32	42.92	3	Horizontal	270	2.56	-	38.98	7.90	32.12
AV	11.48812G	43.13	54.00	-10.87	28.37	3	Horizontal	270	2.56	-	38.98	7.90	32.12
PK	17.2396G	64.02	68.20	-4.18	41.44	3	Horizontal	32	1.64	-	42.20	10.62	30.24

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

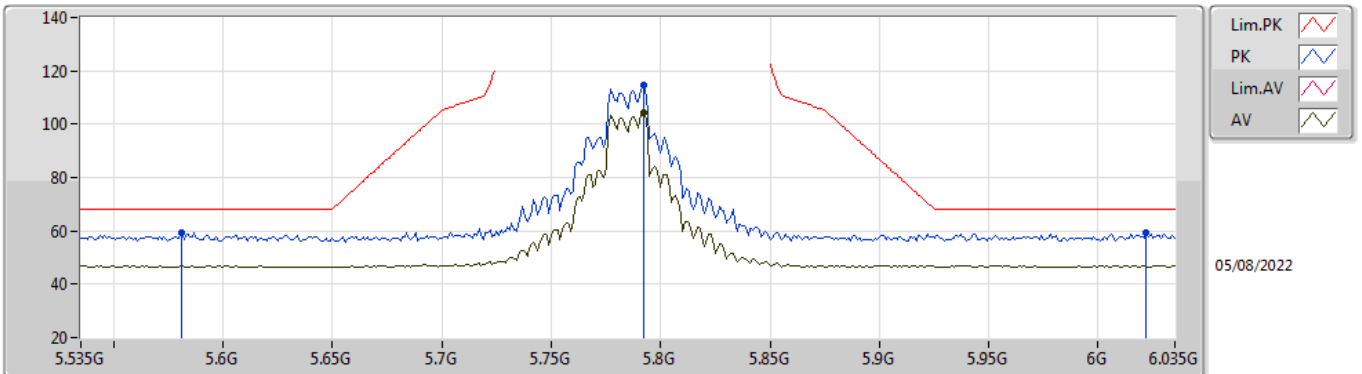


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.64G	58.85	68.20	-9.35	50.26	3	Vertical	272	2.33	-	33.82	5.60	30.83	
PK	5.779G	118.85	Inf	-Inf	110.38	3	Vertical	272	2.33	-	33.80	5.60	30.93	
AV	5.778G	108.55	Inf	-Inf	100.08	3	Vertical	272	2.33	-	33.80	5.60	30.93	
PK	5.947G	59.16	68.20	-9.04	50.28	3	Vertical	272	2.33	-	34.19	5.75	31.06	

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

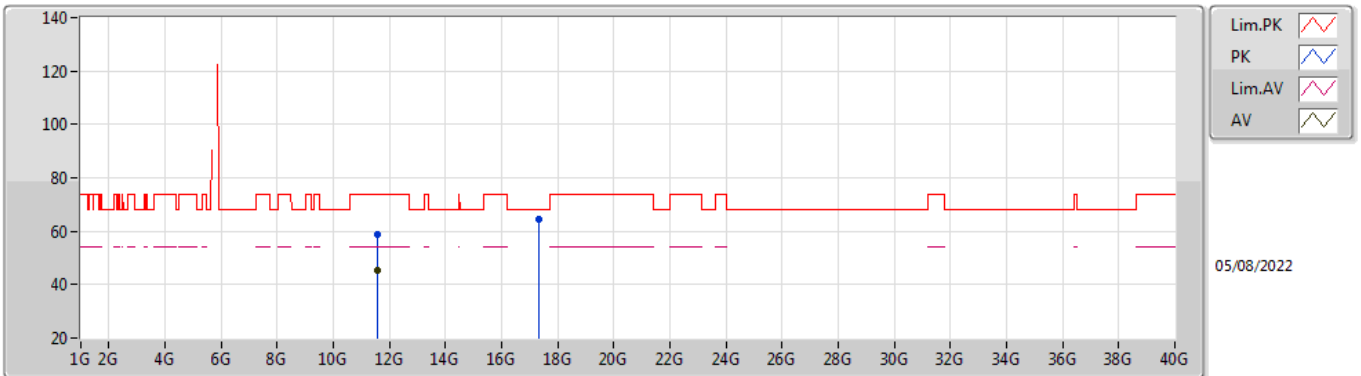


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.581G	59.46	68.20	-8.74	50.72	3	Horizontal	236	2.92	-	33.94	5.58	30.78	
PK	5.792G	114.49	Inf	-Inf	106.03	3	Horizontal	236	2.92	-	33.80	5.60	30.94	
AV	5.792G	104.39	Inf	-Inf	95.93	3	Horizontal	236	2.92	-	33.80	5.60	30.94	
PK	6.022G	59.47	68.20	-8.73	50.54	3	Horizontal	236	2.92	-	34.24	5.80	31.11	

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

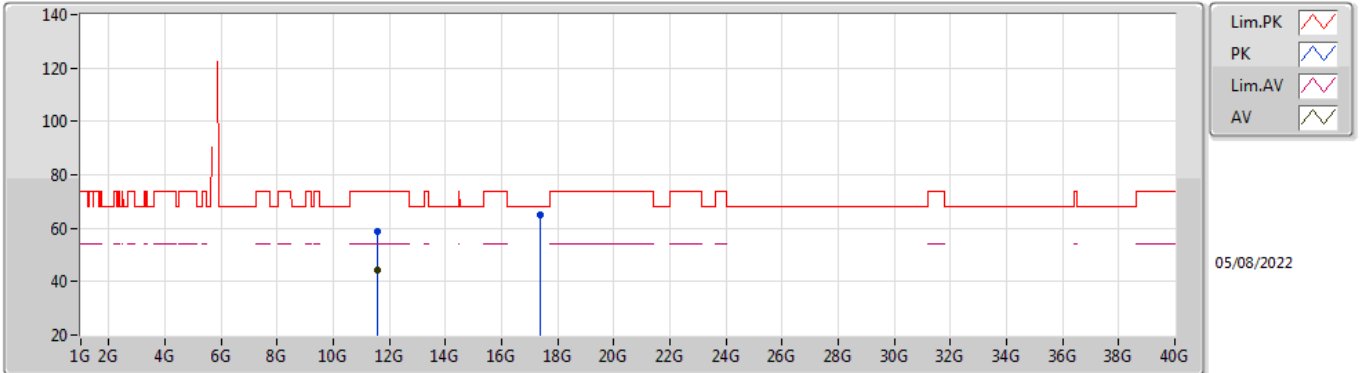


EUT_Z_2TX
Setting 23
02-F-G-4

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	58.69	74.00	-15.31	43.72	3	Vertical	23	1.07	-	39.20	7.93	32.16
AV	11.572G	45.47	54.00	-8.53	30.48	3	Vertical	23	1.07	-	39.22	7.93	32.16
PK	17.3516G	64.35	68.20	-3.85	41.08	3	Vertical	104	2.82	-	42.81	10.68	30.22

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TnomVnom

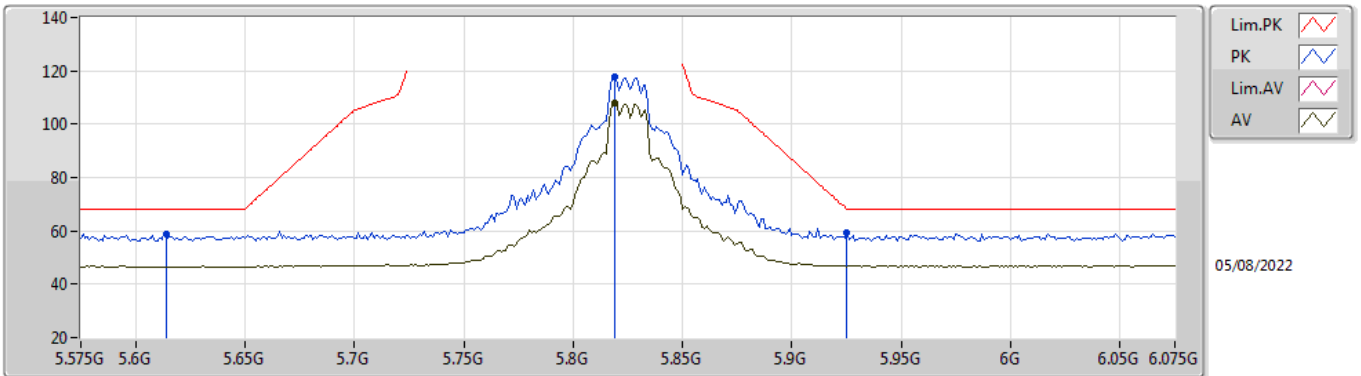


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.57712G	59.01	74.00	-14.99	44.01	3	Horizontal	98	2.33	-	39.23	7.93	32.16
AV	11.5718G	44.48	54.00	-9.52	29.49	3	Horizontal	98	2.33	-	39.22	7.93	32.16
PK	17.35352G	64.92	68.20	-3.28	41.64	3	Horizontal	73	1.82	-	42.82	10.68	30.22

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

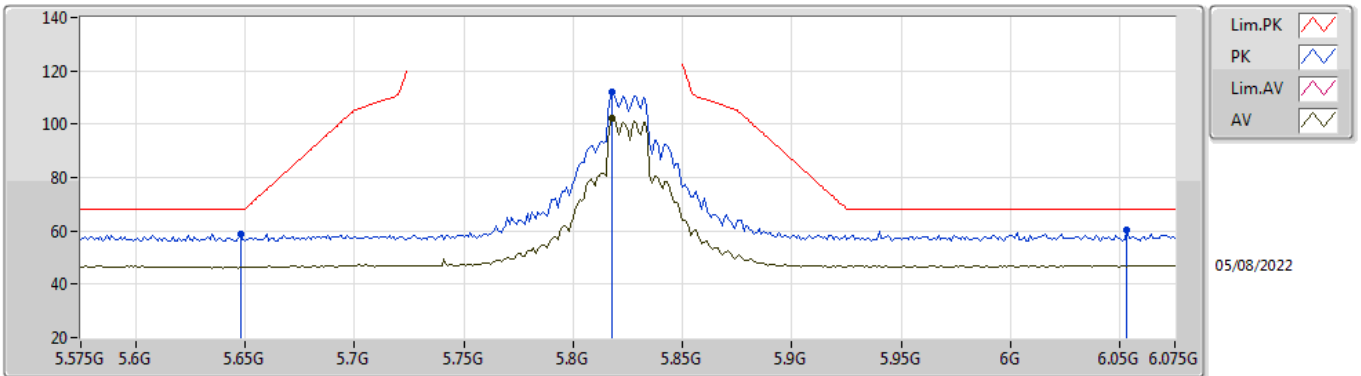


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.614G	58.77	68.20	-9.43	50.11	3	Vertical	270	2.31	-	33.87	5.60	30.81
PK	5.819G	117.63	Inf	-Inf	109.17	3	Vertical	270	2.31	-	33.80	5.62	30.96
AV	5.819G	107.68	Inf	-Inf	99.22	3	Vertical	270	2.31	-	33.80	5.62	30.96
PK	5.925G	59.16	68.20	-9.04	50.32	3	Vertical	270	2.31	-	34.15	5.73	31.04

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

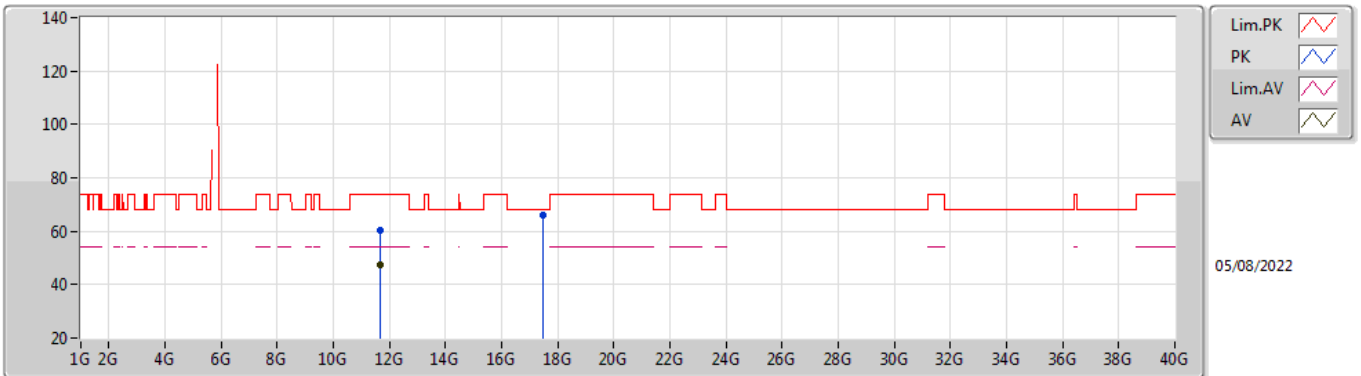


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.648G	58.92	68.20	-9.28	50.35	3	Horizontal	213	2.08	-	33.80	5.60	30.83	
PK	5.818G	111.83	Inf	-Inf	103.37	3	Horizontal	213	2.08	-	33.80	5.62	30.96	
AV	5.818G	102.27	Inf	-Inf	93.81	3	Horizontal	213	2.08	-	33.80	5.62	30.96	
PK	6.053G	60.31	68.20	-7.89	51.32	3	Horizontal	213	2.08	-	34.31	5.80	31.12	

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

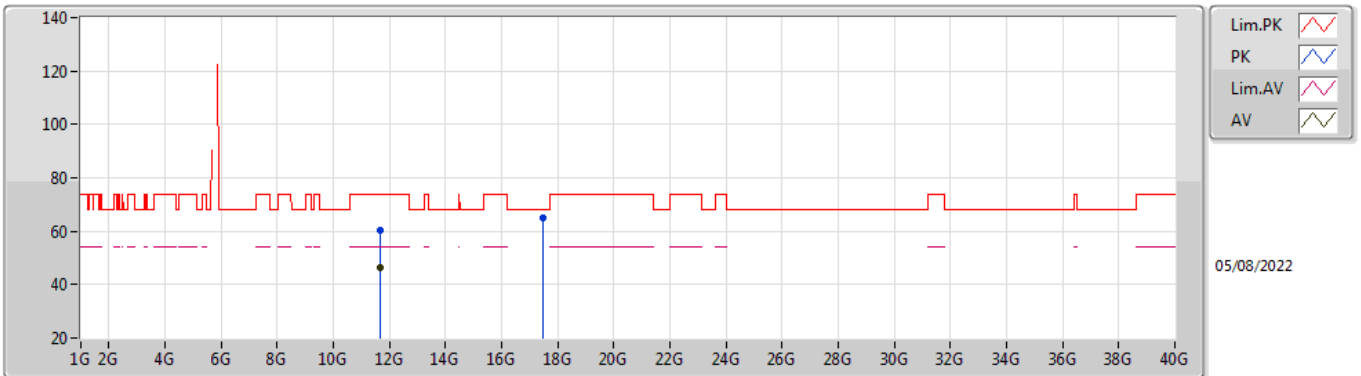


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.64856G	60.33	74.00	-13.67	45.18	3	Vertical	231	2.40	-	39.40	7.96	32.21
AV	11.64988G	47.39	54.00	-6.61	32.24	3	Vertical	231	2.40	-	39.40	7.96	32.21
PK	17.48216G	66.12	68.20	-2.08	41.83	3	Vertical	74	1.50	-	43.76	10.74	30.21

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TnomVnom

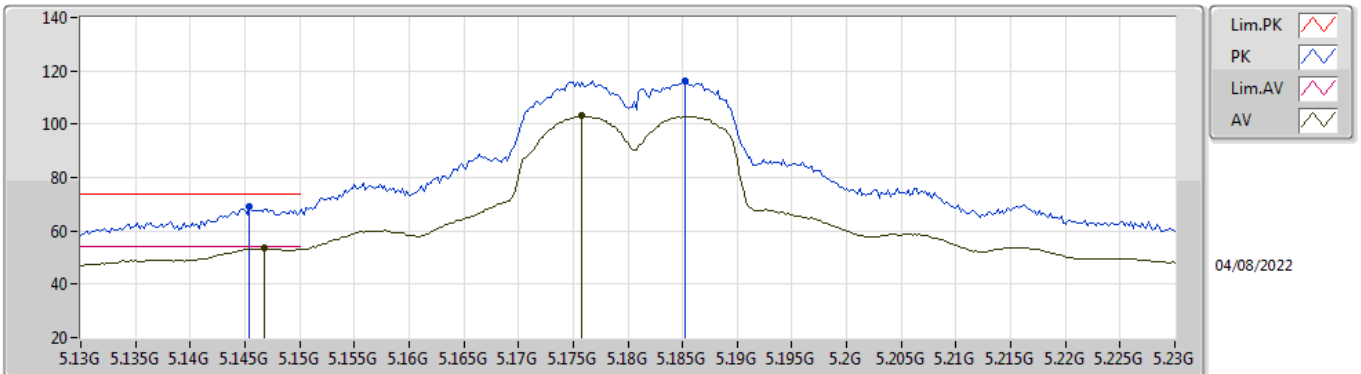


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.64764G	60.31	74.00	-13.69	45.16	3	Horizontal	82	2.62	-	39.40	7.96	32.21	
AV	11.6498G	46.31	54.00	-7.69	31.16	3	Horizontal	82	2.62	-	39.40	7.96	32.21	
PK	17.4732G	65.20	68.20	-3.00	40.98	3	Horizontal	272	2.34	-	43.69	10.74	30.21	

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

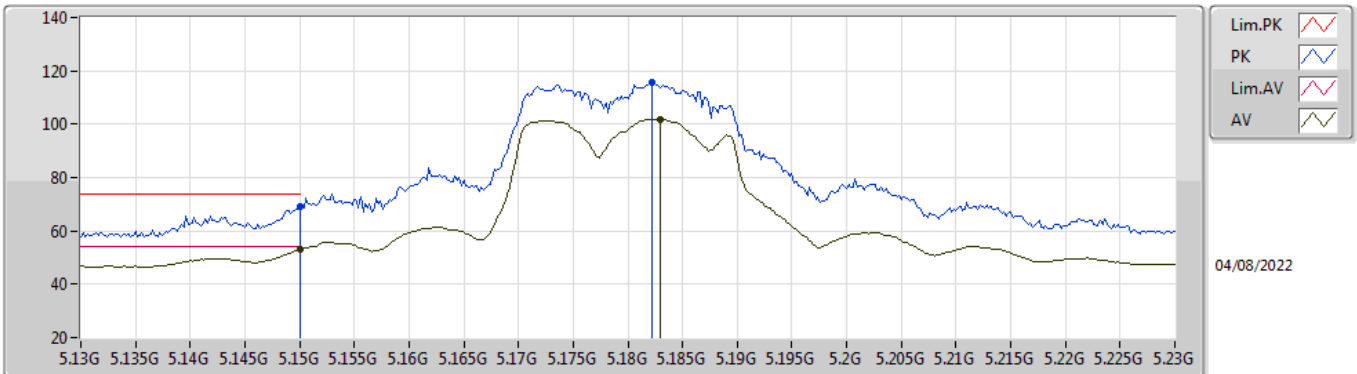


EUT_Z_2TX
Setting 20.5
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.1454G	68.97	74.00	-5.03	60.86	3	Vertical	359	2.22	-	33.59	5.25	30.73	
AV	5.1468G	53.48	54.00	-0.52	45.37	3	Vertical	359	2.22	-	33.59	5.25	30.73	
PK	5.1852G	116.22	Inf	-Inf	107.99	3	Vertical	359	2.22	-	33.67	5.29	30.73	
AV	5.1758G	103.12	Inf	-Inf	94.92	3	Vertical	359	2.22	-	33.65	5.28	30.73	

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

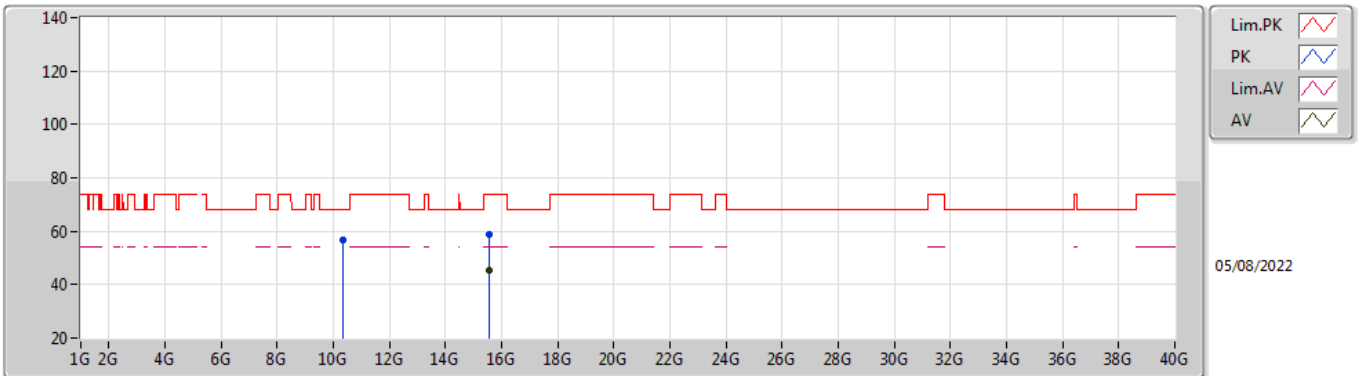


EUT_Z_2TX
Setting 20.5
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.15G	69.12	74.00	-4.88	61.00	3	Horizontal	142	2.61	-	33.60	5.25	30.73	
AV	5.15G	52.88	54.00	-1.12	44.76	3	Horizontal	142	2.61	-	33.60	5.25	30.73	
PK	5.1822G	115.58	Inf	-Inf	107.37	3	Horizontal	142	2.61	-	33.66	5.28	30.73	
AV	5.183G	101.81	Inf	-Inf	93.59	3	Horizontal	142	2.61	-	33.67	5.28	30.73	

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

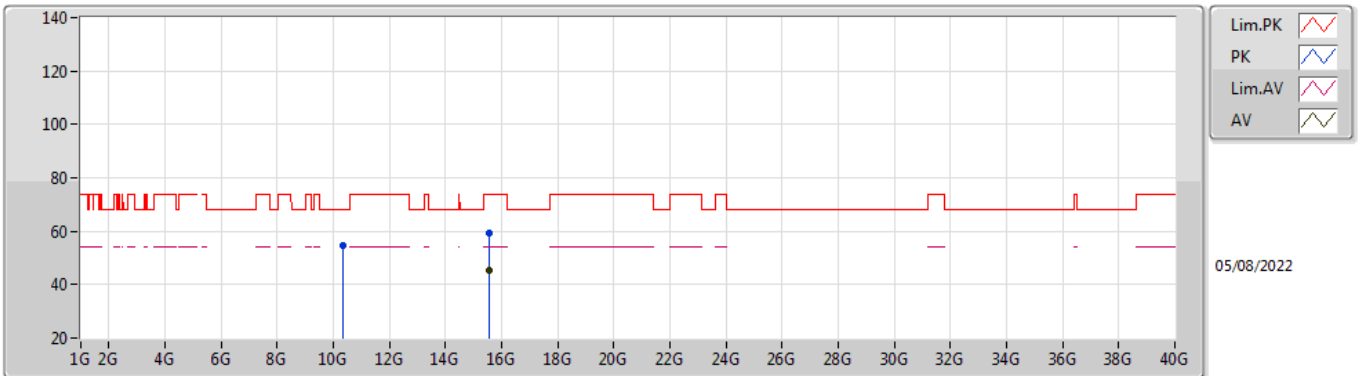


EUT_Z_2TX
Setting 20.5
02-F-G-4

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	10.35986G	56.50	68.20	-11.70	42.25	3	Vertical	297	2.32	-	38.64	7.44	31.83
PK	15.54182G	58.67	74.00	-15.33	42.38	3	Vertical	8	2.84	-	37.85	9.79	31.35
AV	15.53644G	45.35	54.00	-8.65	29.03	3	Vertical	8	2.84	-	37.88	9.79	31.35

802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TnomVnom

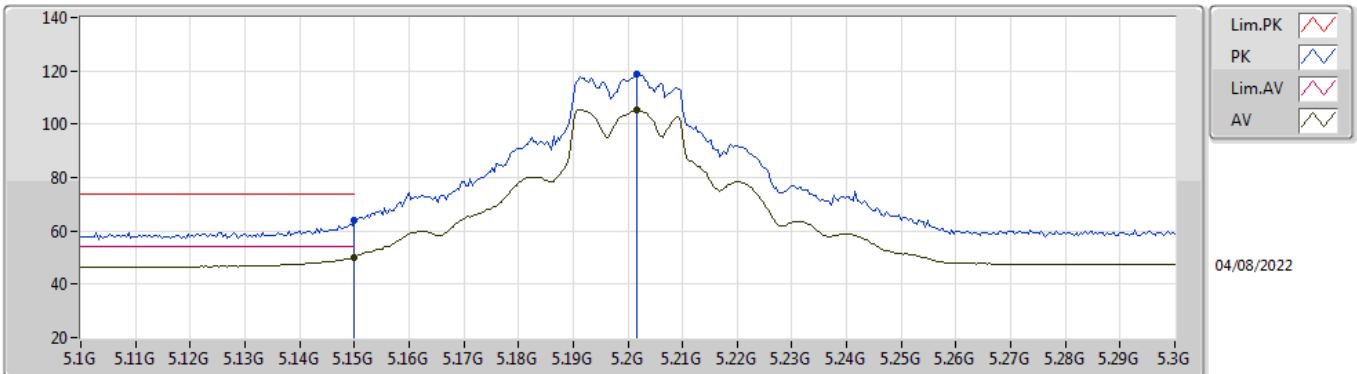


EUT_Z_2TX
Setting 20.5
02-F-G-4

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	10.35976G	54.82	68.20	-13.38	40.57	3	Horizontal	107	1.87	-	38.64	7.44	31.83
PK	15.54162G	59.26	74.00	-14.74	42.97	3	Horizontal	186	2.22	-	37.85	9.79	31.35
AV	15.53906G	45.28	54.00	-8.72	28.97	3	Horizontal	186	2.22	-	37.87	9.79	31.35

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

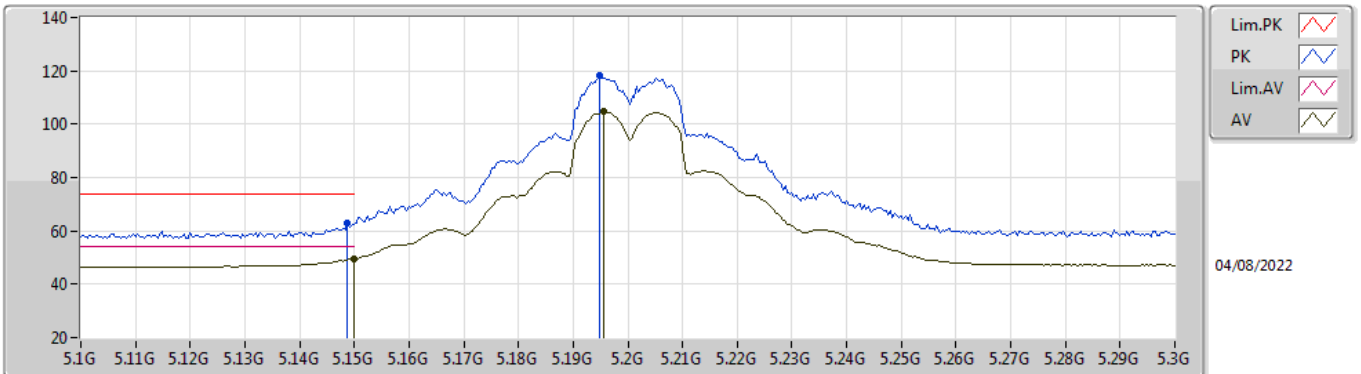


EUT_Z_2TX
Setting 22
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	63.92	74.00	-10.08	55.80	3	Vertical	337	2.64	-	33.60	5.25	30.73
AV	5.15G	50.25	54.00	-3.75	42.13	3	Vertical	337	2.64	-	33.60	5.25	30.73
PK	5.2016G	118.67	Inf	-Inf	110.40	3	Vertical	337	2.64	-	33.70	5.30	30.73
AV	5.2016G	105.53	Inf	-Inf	97.26	3	Vertical	337	2.64	-	33.70	5.30	30.73

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

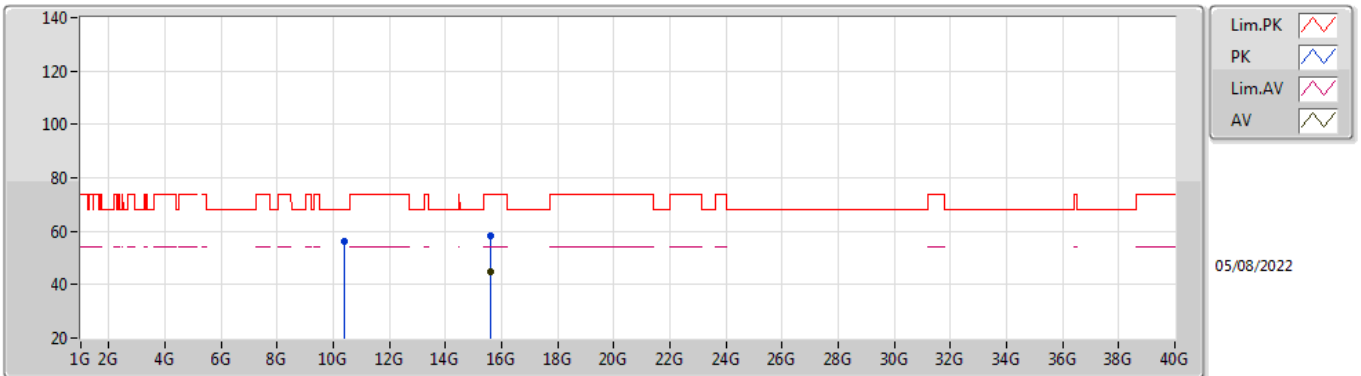


EUT_Z_2TX
Setting 22
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.1488G	62.72	74.00	-11.28	54.60	3	Horizontal	327	2.84	-	33.60	5.25	30.73	
AV	5.15G	49.72	54.00	-4.28	41.60	3	Horizontal	327	2.84	-	33.60	5.25	30.73	
PK	5.1948G	118.46	Inf	-Inf	110.21	3	Horizontal	327	2.84	-	33.69	5.29	30.73	
AV	5.1956G	104.67	Inf	-Inf	96.41	3	Horizontal	327	2.84	-	33.69	5.30	30.73	

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

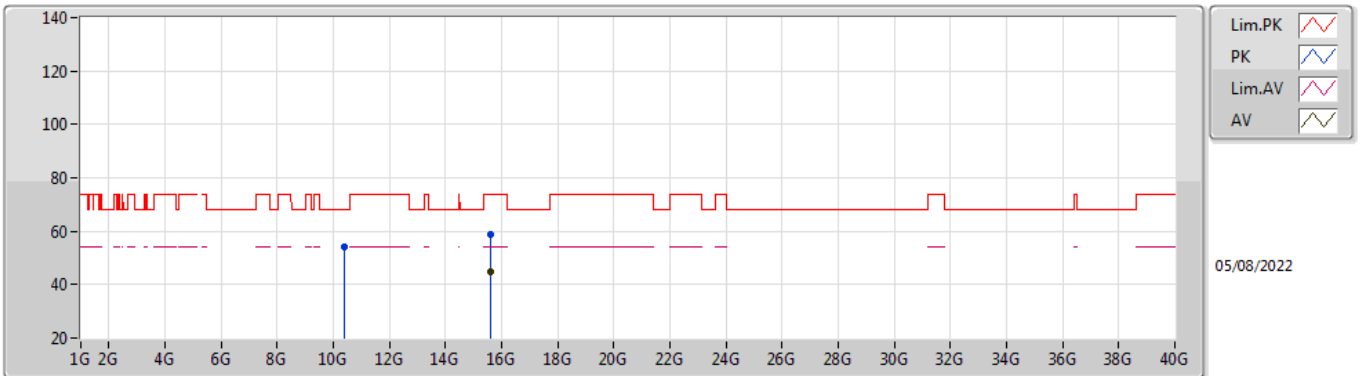


EUT_Z_2TX
Setting 22
02-F-G-4

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	10.40003G	56.32	68.20	-11.88	42.09	3	Vertical	297	2.38	-	38.60	7.46	31.83
PK	15.60154G	58.34	74.00	-15.66	42.40	3	Vertical	21	2.62	-	37.50	9.82	31.38
AV	15.60034G	44.85	54.00	-9.15	28.91	3	Vertical	21	2.62	-	37.50	9.82	31.38

802.11ax HEW20_Nss1,(MCS0)_2TX

5200MHz_TnomVnom

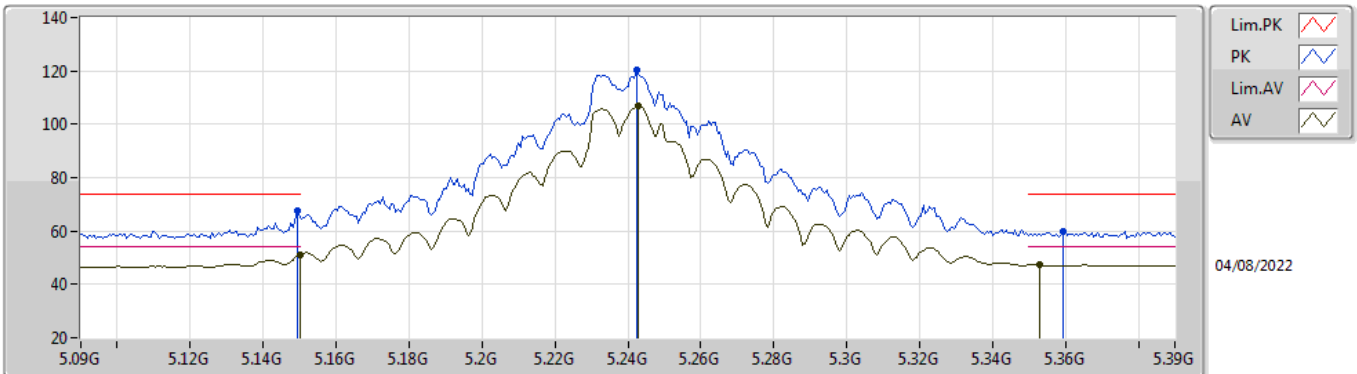


EUT_Z_2TX
Setting 22
02-F-G-4

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	10.40005G	54.28	68.20	-13.92	40.05	3	Horizontal	106	1.80	-	38.60	7.46	31.83
PK	15.59788G	58.59	74.00	-15.41	42.64	3	Horizontal	329	2.84	-	37.51	9.82	31.38
AV	15.5977G	45.05	54.00	-8.95	29.10	3	Horizontal	329	2.84	-	37.51	9.82	31.38

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

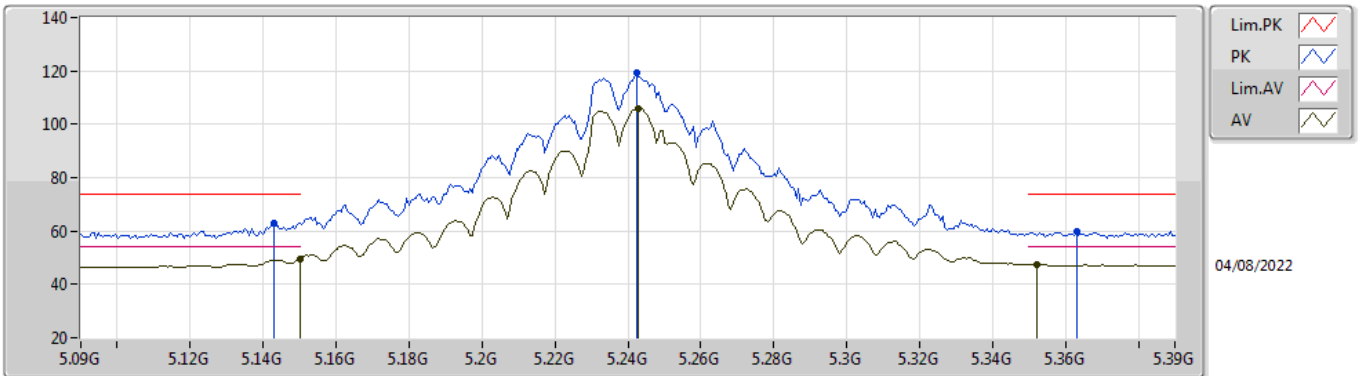


EUT_Z_2TX
Setting 23
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1494G	67.72	74.00	-6.28	59.60	3	Vertical	337	2.25	-	33.60	5.25	30.73
AV	5.15G	50.90	54.00	-3.10	42.78	3	Vertical	337	2.25	-	33.60	5.25	30.73
PK	5.2424G	120.12	Inf	-Inf	111.83	3	Vertical	337	2.25	-	33.70	5.32	30.73
AV	5.243G	106.72	Inf	-Inf	98.43	3	Vertical	337	2.25	-	33.70	5.32	30.73
PK	5.3594G	59.84	74.00	-14.16	51.26	3	Vertical	337	2.25	-	33.92	5.38	30.72
AV	5.3528G	47.36	54.00	-6.64	38.79	3	Vertical	337	2.25	-	33.91	5.38	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

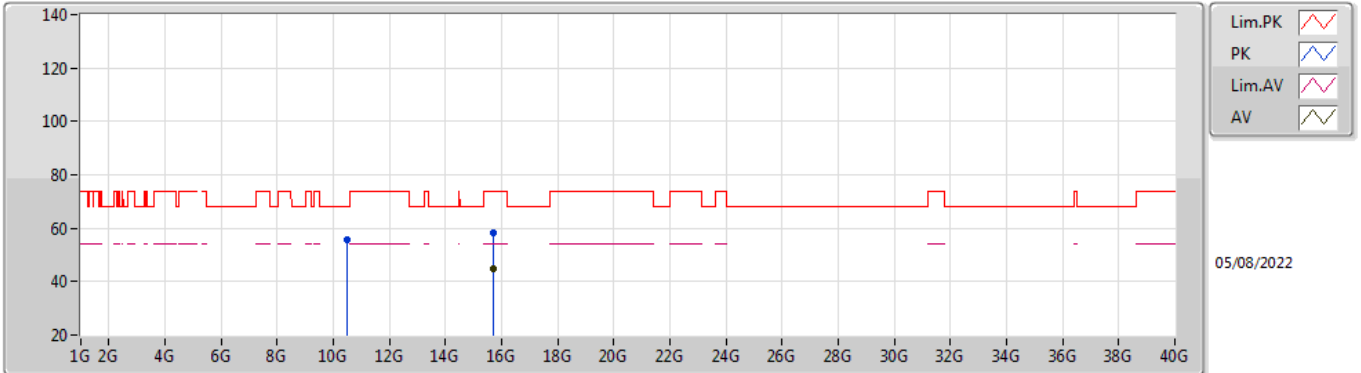


EUT_Z_2TX
Setting 23
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1428G	63.10	74.00	-10.90	55.00	3	Horizontal	144	2.69	-	33.59	5.24	30.73
AV	5.15G	49.65	54.00	-4.35	41.53	3	Horizontal	144	2.69	-	33.60	5.25	30.73
PK	5.2424G	119.35	Inf	-Inf	111.06	3	Horizontal	144	2.69	-	33.70	5.32	30.73
AV	5.243G	105.94	Inf	-Inf	97.65	3	Horizontal	144	2.69	-	33.70	5.32	30.73
PK	5.363G	59.93	74.00	-14.07	51.34	3	Horizontal	144	2.69	-	33.93	5.38	30.72
AV	5.3522G	47.42	54.00	-6.58	38.86	3	Horizontal	144	2.69	-	33.90	5.38	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

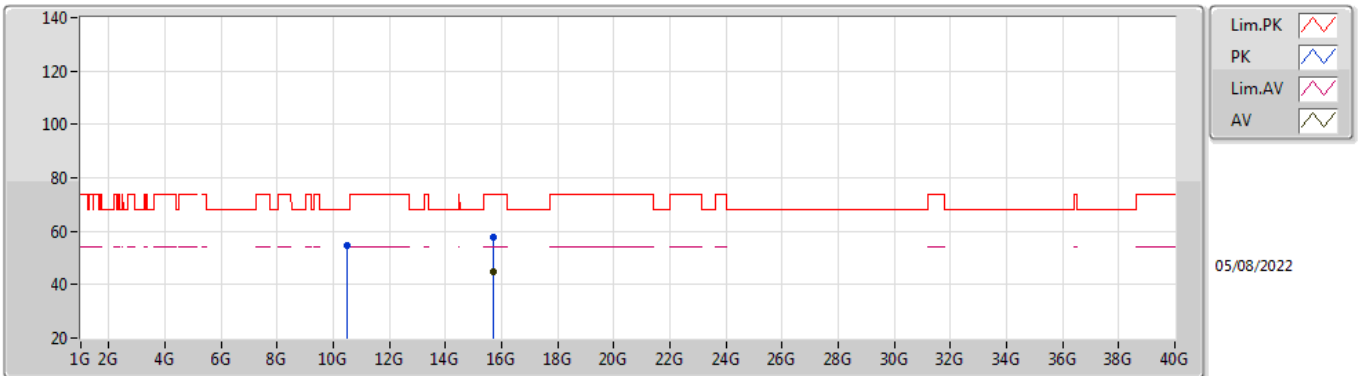


EUT_Z_2TX
Setting 23
02-F-G-4

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	10.47985G	55.87	68.20	-12.33	41.63	3	Vertical	296	1.98	-	38.60	7.49	31.85
PK	15.7209G	58.27	74.00	-15.73	42.34	3	Vertical	188	1.45	-	37.50	9.87	31.44
AV	15.7166G	44.65	54.00	-9.35	28.72	3	Vertical	188	1.45	-	37.50	9.87	31.44

802.11ax HEW20_Nss1,(MCS0)_2TX

5240MHz_TnomVnom

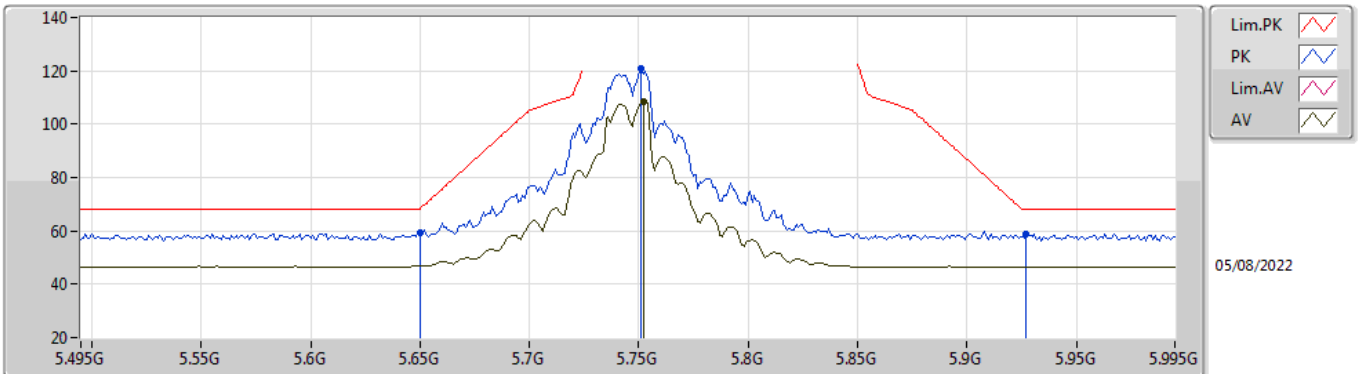


EUT_Z_2TX
Setting 23
02-F-G-4

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	10.4799G	54.59	68.20	-13.61	40.35	3	Horizontal	159	1.88	-	38.60	7.49	31.85
PK	15.72304G	57.60	74.00	-16.40	41.67	3	Horizontal	265	1.44	-	37.50	9.88	31.45
AV	15.72336G	44.75	54.00	-9.25	28.82	3	Horizontal	265	1.44	-	37.50	9.88	31.45

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

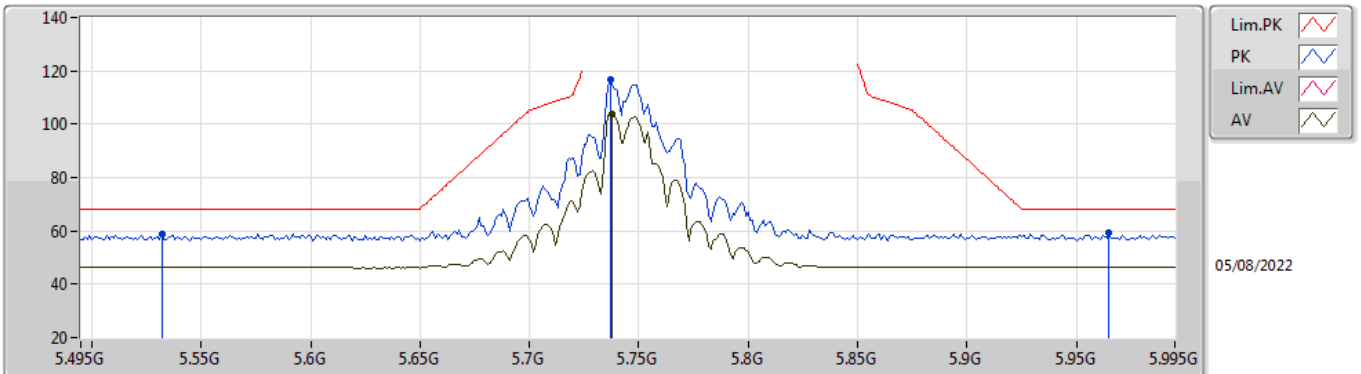


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.65G	59.18	68.20	-9.02	50.61	3	Vertical	269	2.25	-	33.80	5.60	30.83	
PK	5.751G	120.74	Inf	-Inf	112.25	3	Vertical	269	2.25	-	33.80	5.60	30.91	
AV	5.752G	108.65	Inf	-Inf	100.16	3	Vertical	269	2.25	-	33.80	5.60	30.91	
PK	5.927G	59.00	68.20	-9.20	50.16	3	Vertical	269	2.25	-	34.15	5.73	31.04	

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

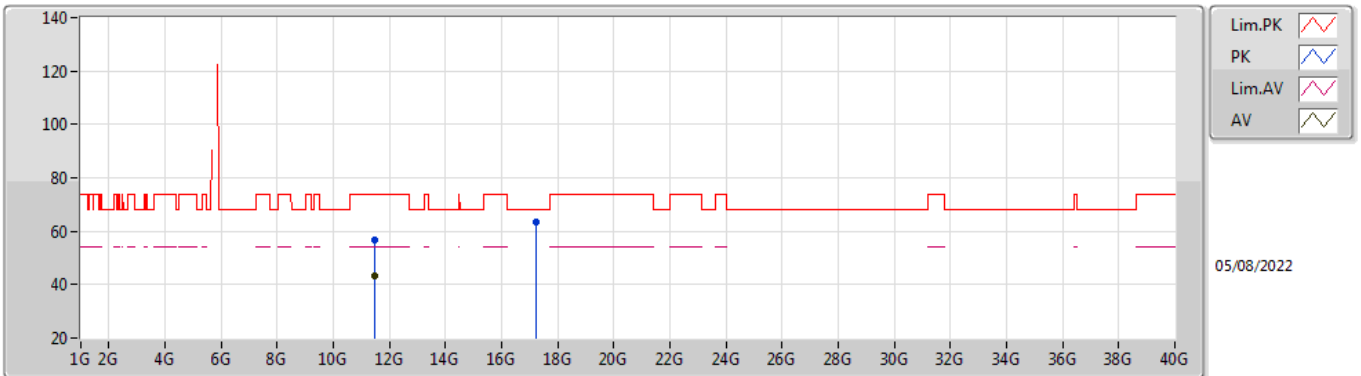


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.532G	59.04	68.20	-9.16	50.25	3	Horizontal	224	2.98	-	34.00	5.53	30.74	
PK	5.737G	116.58	Inf	-Inf	108.05	3	Horizontal	224	2.98	-	33.83	5.60	30.90	
AV	5.738G	103.89	Inf	-Inf	95.37	3	Horizontal	224	2.98	-	33.82	5.60	30.90	
PK	5.965G	59.06	68.20	-9.14	50.17	3	Horizontal	224	2.98	-	34.20	5.76	31.07	

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

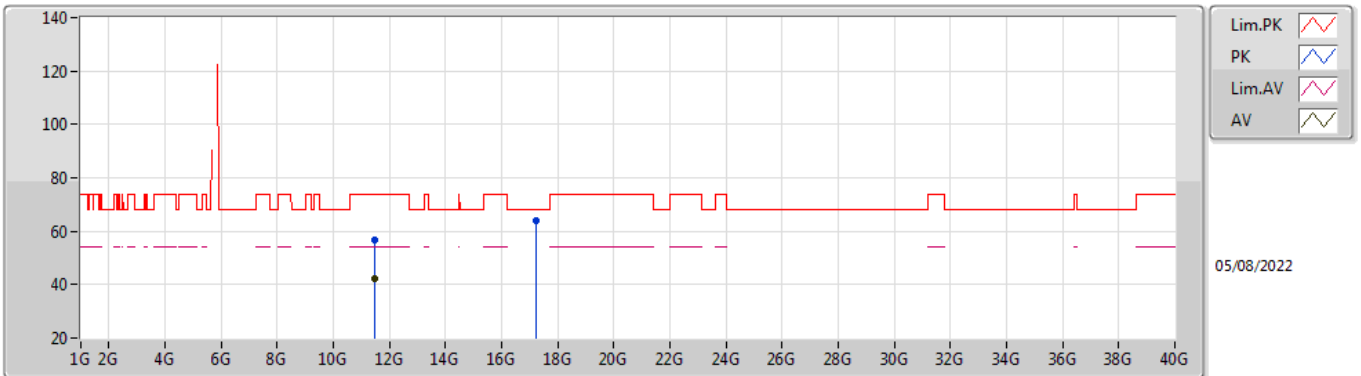


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.49012G	56.87	74.00	-17.13	42.11	3	Vertical	287	1.62	-	38.98	7.90	32.12
AV	11.48984G	43.19	54.00	-10.81	28.43	3	Vertical	287	1.62	-	38.98	7.90	32.12
PK	17.24096G	63.52	68.20	-4.68	40.94	3	Vertical	106	1.25	-	42.20	10.62	30.24

802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TnomVnom

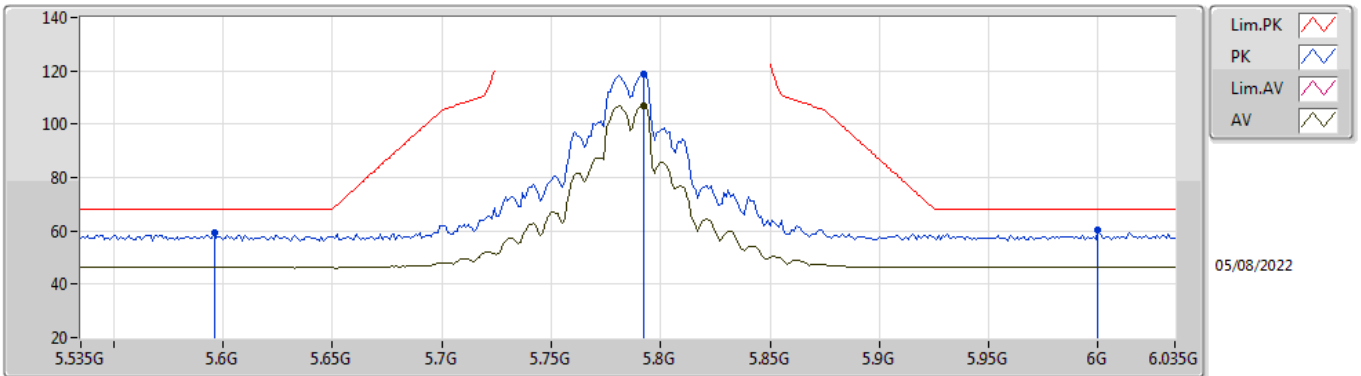


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.49124G	56.65	74.00	-17.35	41.89	3	Horizontal	9	2.75	-	38.98	7.90	32.12
AV	11.48964G	42.06	54.00	-11.94	27.30	3	Horizontal	9	2.75	-	38.98	7.90	32.12
PK	17.22716G	63.89	68.20	-4.31	41.38	3	Horizontal	307	2.58	-	42.14	10.61	30.24

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

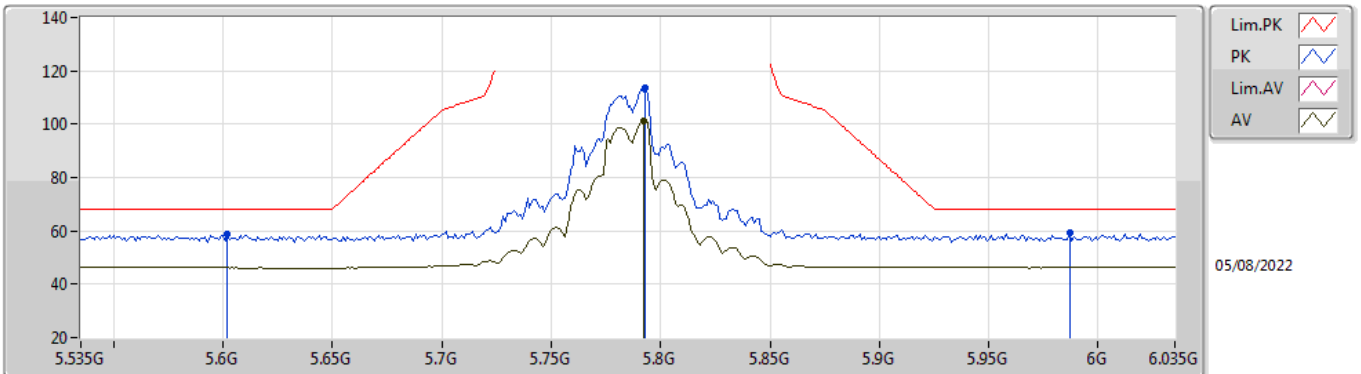


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.596G	59.13	68.20	-9.07	50.41	3	Vertical	272	2.35	-	33.91	5.60	30.79
PK	5.792G	118.67	Inf	-Inf	110.21	3	Vertical	272	2.35	-	33.80	5.60	30.94
AV	5.792G	107.13	Inf	-Inf	98.67	3	Vertical	272	2.35	-	33.80	5.60	30.94
PK	6G	60.40	68.20	-7.80	51.50	3	Vertical	272	2.35	-	34.20	5.80	31.10

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

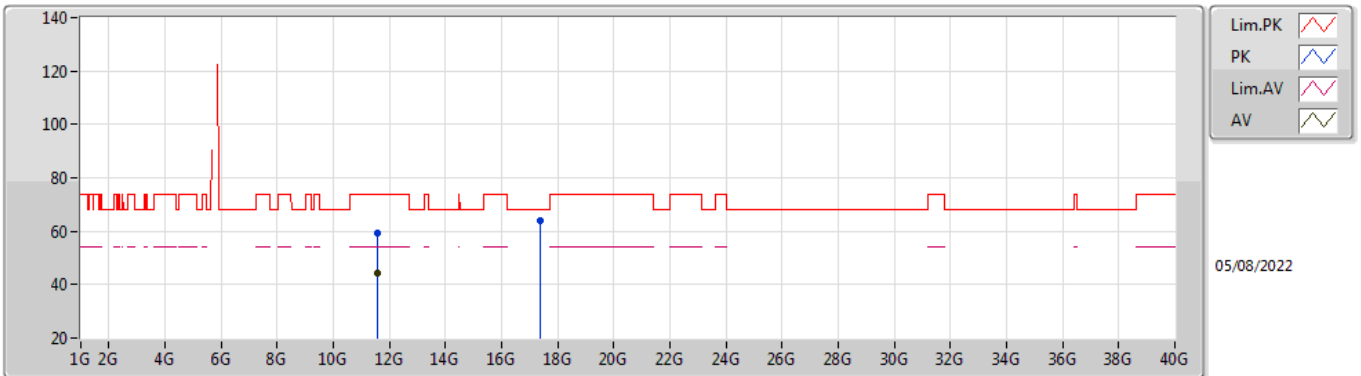


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.602G	58.79	68.20	-9.41	50.09	3	Horizontal	279	2.30	-	33.90	5.60	30.80
PK	5.793G	113.40	Inf	-Inf	104.94	3	Horizontal	279	2.30	-	33.80	5.60	30.94
AV	5.792G	101.37	Inf	-Inf	92.91	3	Horizontal	279	2.30	-	33.80	5.60	30.94
PK	5.987G	59.10	68.20	-9.10	50.20	3	Horizontal	279	2.30	-	34.20	5.79	31.09

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

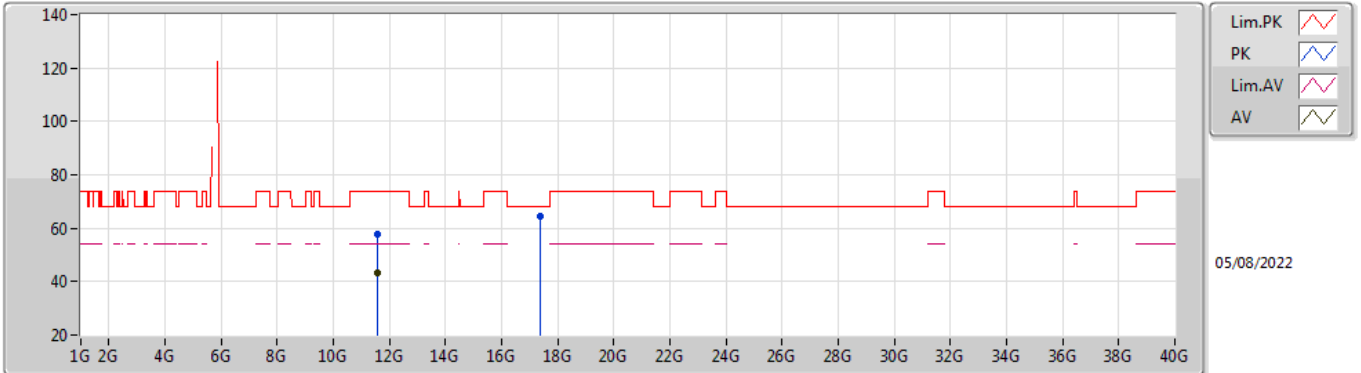


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.56932G	59.17	74.00	-14.83	44.19	3	Vertical	241	2.73	-	39.21	7.93	32.16
AV	11.56972G	44.42	54.00	-9.58	29.44	3	Vertical	241	2.73	-	39.21	7.93	32.16
PK	17.36064G	64.20	68.20	-4.00	40.88	3	Vertical	68	1.88	-	42.86	10.68	30.22

802.11ax HEW20_Nss1,(MCS0)_2TX

5785MHz_TnomVnom

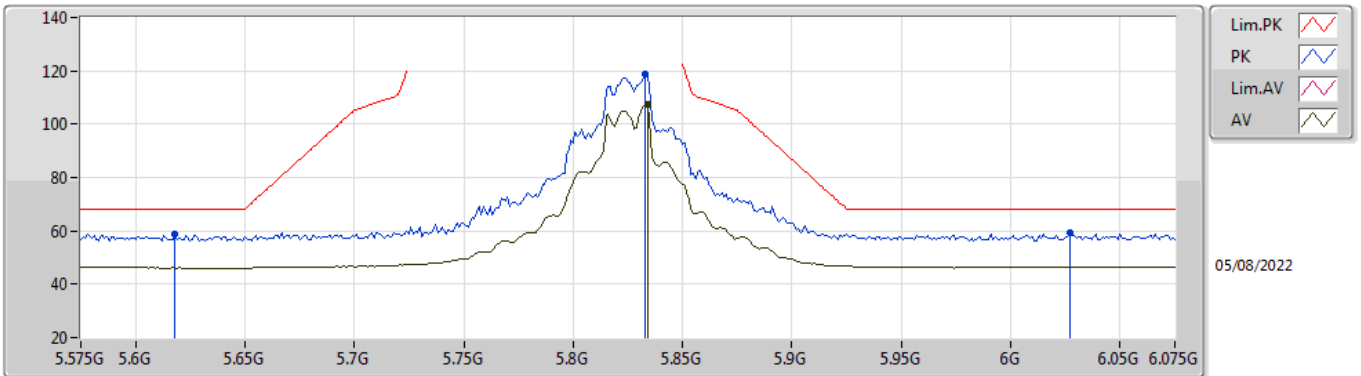


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.57384G	57.98	74.00	-16.02	42.99	3	Horizontal	185	2.80	-	39.22	7.93	32.16	
AV	11.57008G	43.28	54.00	-10.72	28.30	3	Horizontal	185	2.80	-	39.21	7.93	32.16	
PK	17.36052G	64.42	68.20	-3.78	41.10	3	Horizontal	333	2.68	-	42.86	10.68	30.22	

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

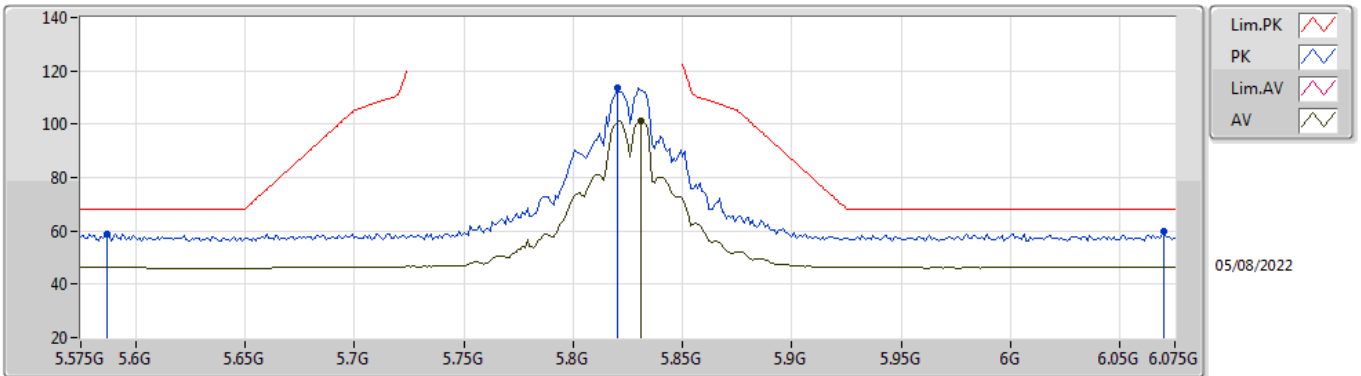


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.618G	58.80	68.20	-9.40	50.15	3	Vertical	267	2.28	-	33.86	5.60	30.81	
PK	5.833G	118.81	Inf	-Inf	110.35	3	Vertical	267	2.28	-	33.80	5.63	30.97	
AV	5.834G	107.46	Inf	-Inf	99.00	3	Vertical	267	2.28	-	33.80	5.63	30.97	
PK	6.027G	59.15	68.20	-9.05	50.21	3	Vertical	267	2.28	-	34.25	5.80	31.11	

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

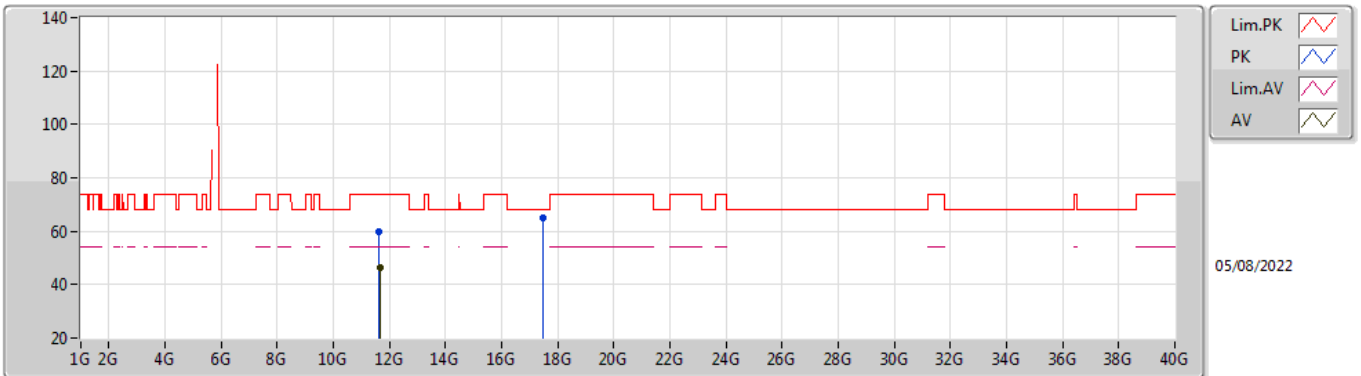


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.587G	59.05	68.20	-9.15	50.32	3	Horizontal	215	2.18	-	33.93	5.59	30.79
PK	5.82G	113.44	Inf	-Inf	104.98	3	Horizontal	215	2.18	-	33.80	5.62	30.96
AV	5.831G	101.44	Inf	-Inf	92.98	3	Horizontal	215	2.18	-	33.80	5.63	30.97
PK	6.07G	59.67	68.20	-8.53	50.65	3	Horizontal	215	2.18	-	34.34	5.80	31.12

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

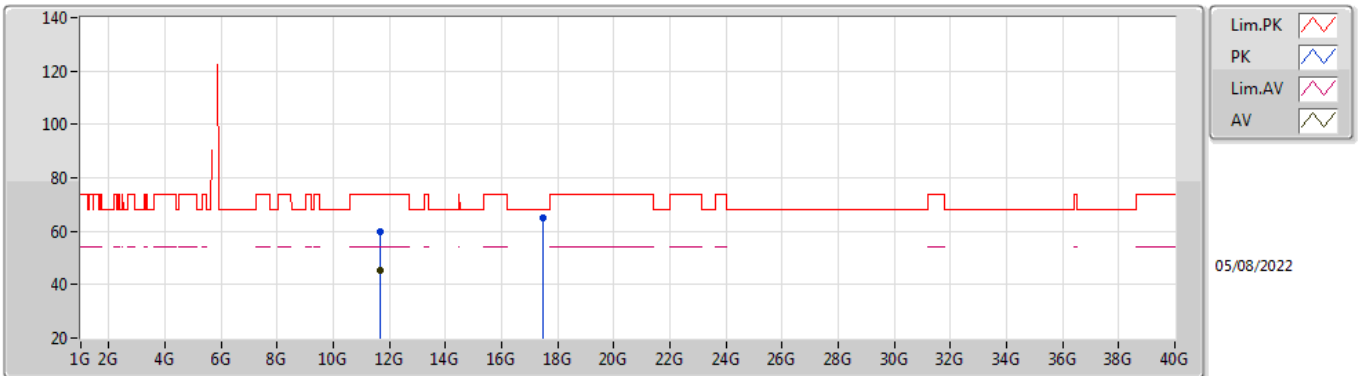


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.64656G	59.85	74.00	-14.15	44.71	3	Vertical	130	2.02	-	39.39	7.96	32.21
AV	11.64988G	46.20	54.00	-7.80	31.05	3	Vertical	130	2.02	-	39.40	7.96	32.21
PK	17.47884G	64.87	68.20	-3.33	40.61	3	Vertical	148	1.68	-	43.73	10.74	30.21

802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TnomVnom

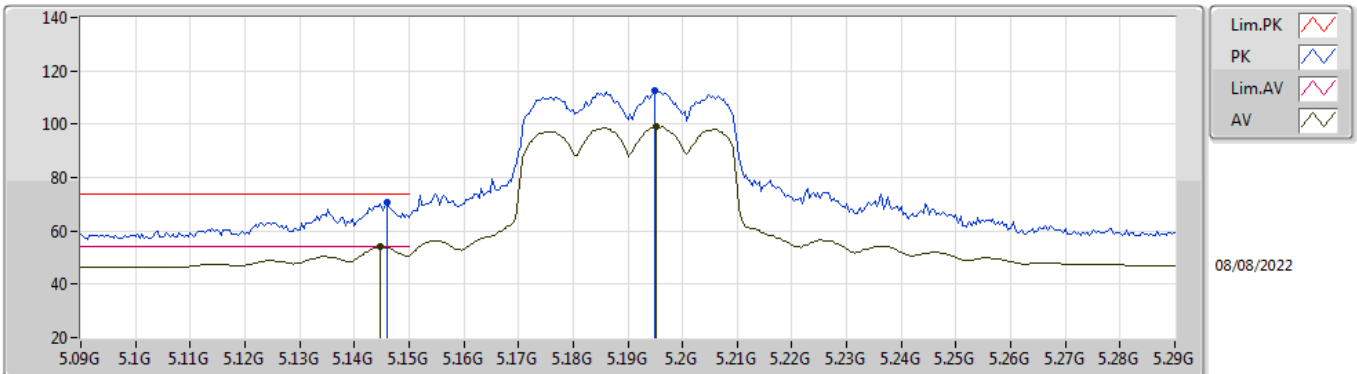


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.6486G	59.90	74.00	-14.10	44.75	3	Horizontal	256	1.10	-	39.40	7.96	32.21
AV	11.64984G	45.21	54.00	-8.79	30.06	3	Horizontal	256	1.10	-	39.40	7.96	32.21
PK	17.48348G	65.07	68.20	-3.13	40.77	3	Horizontal	54	1.47	-	43.77	10.74	30.21

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

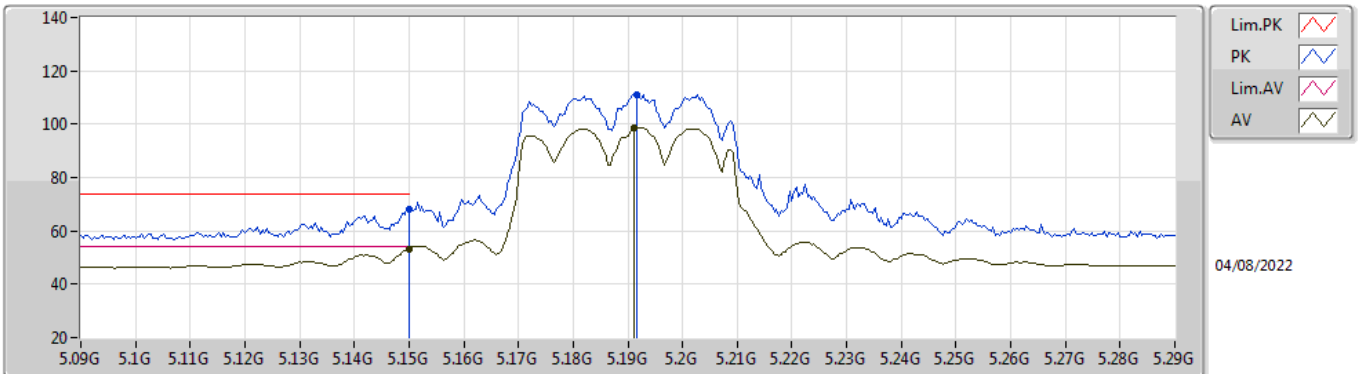


EUT_Z_2TX
Setting 19
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.146G	70.62	74.00	-3.38	62.51	3	Vertical	0	2.28	-	33.59	5.25	30.73	
AV	5.148G	53.95	54.00	-0.05	45.85	3	Vertical	0	2.28	-	33.59	5.24	30.73	
PK	5.1948G	112.68	Inf	-Inf	104.43	3	Vertical	0	2.28	-	33.69	5.29	30.73	
AV	5.1952G	98.89	Inf	-Inf	90.63	3	Vertical	0	2.28	-	33.69	5.30	30.73	

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

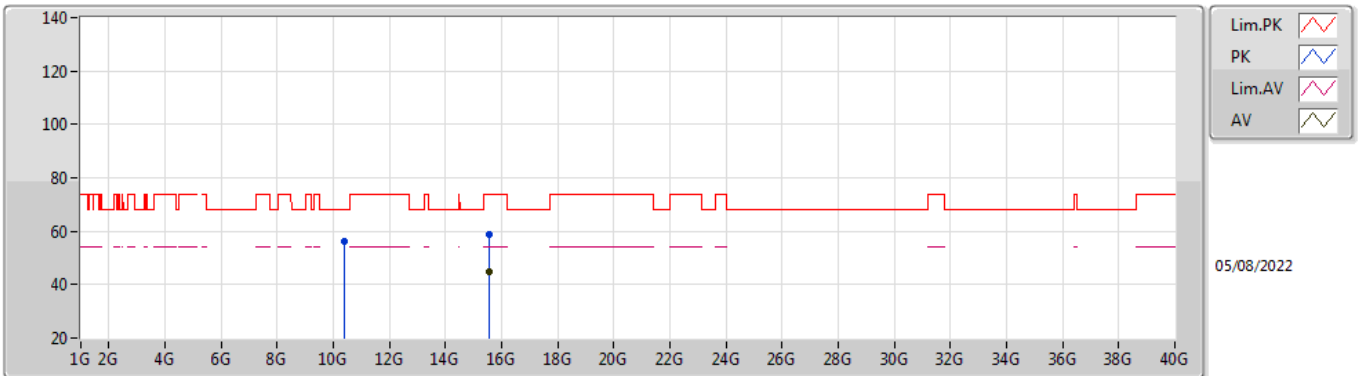


EUT_Z_2TX
Setting 19
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.15G	68.30	74.00	-5.70	60.18	3	Horizontal	140	2.58	-	33.60	5.25	30.73	
AV	5.15G	53.28	54.00	-0.72	45.16	3	Horizontal	140	2.58	-	33.60	5.25	30.73	
PK	5.1916G	111.23	Inf	-Inf	102.99	3	Horizontal	140	2.58	-	33.68	5.29	30.73	
AV	5.1912G	98.72	Inf	-Inf	90.48	3	Horizontal	140	2.58	-	33.68	5.29	30.73	

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

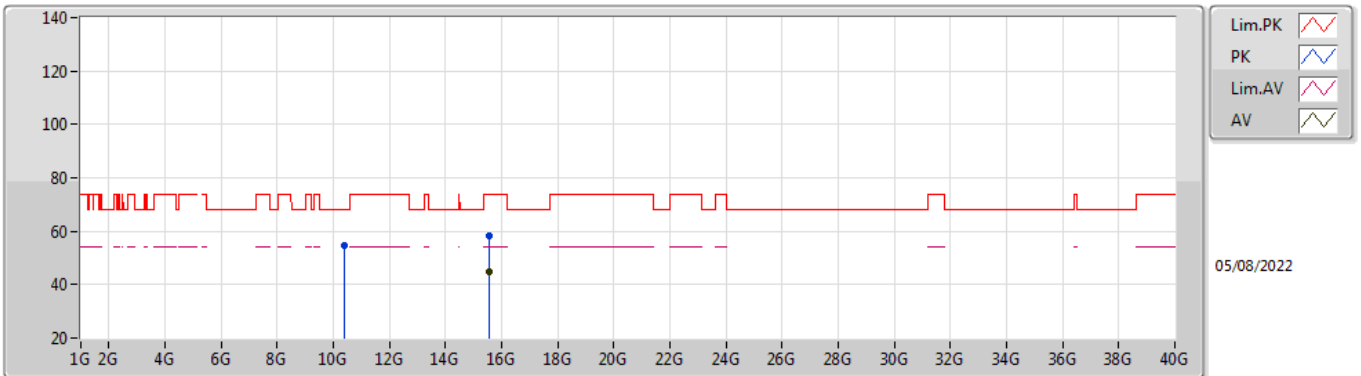


EUT_Z_2TX
Setting 19
02-F-G-4

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	10.37988G	56.23	68.20	-11.97	41.99	3	Vertical	156	1.67	-	38.62	7.45	31.83
PK	15.5618G	58.61	74.00	-15.39	42.44	3	Vertical	115	2.56	-	37.73	9.80	31.36
AV	15.56232G	44.79	54.00	-9.21	28.62	3	Vertical	115	2.56	-	37.73	9.80	31.36

802.11ax HEW40_Nss1,(MCS0)_2TX

5190MHz_TnomVnom

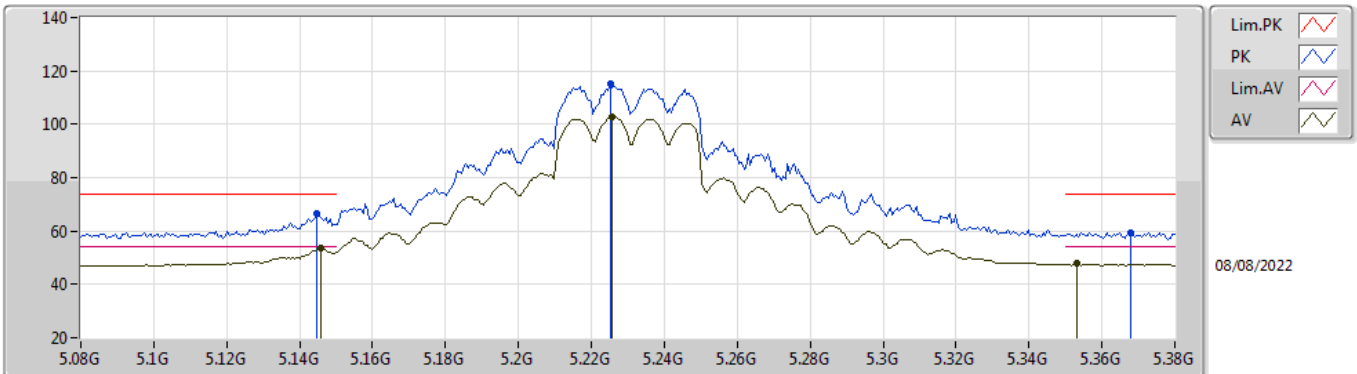


EUT_Z_2TX
Setting 19
02-F-G-4

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	10.3798G	54.77	68.20	-13.43	40.53	3	Horizontal	17	1.95	-	38.62	7.45	31.83
PK	15.5794G	58.09	74.00	-15.91	42.03	3	Horizontal	2	1.29	-	37.62	9.81	31.37
AV	15.56064G	44.84	54.00	-9.16	28.66	3	Horizontal	2	1.29	-	37.74	9.80	31.36

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

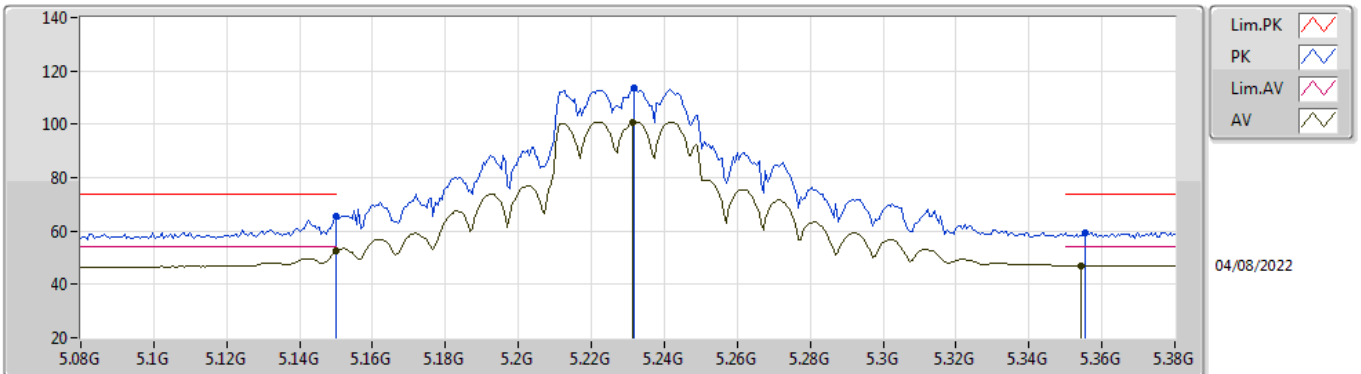


EUT_Z_2TX
Setting 20
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1448G	66.49	74.00	-7.51	58.39	3	Vertical	0	2.38	-	33.59	5.24	30.73
AV	5.146G	53.41	54.00	-0.59	45.30	3	Vertical	0	2.38	-	33.59	5.25	30.73
PK	5.2252G	115.21	Inf	-Inf	106.93	3	Vertical	0	2.38	-	33.70	5.31	30.73
AV	5.2258G	102.53	Inf	-Inf	94.25	3	Vertical	0	2.38	-	33.70	5.31	30.73
PK	5.368G	59.56	74.00	-14.44	50.96	3	Vertical	0	2.38	-	33.94	5.38	30.72
AV	5.353G	47.70	54.00	-6.30	39.13	3	Vertical	0	2.38	-	33.91	5.38	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

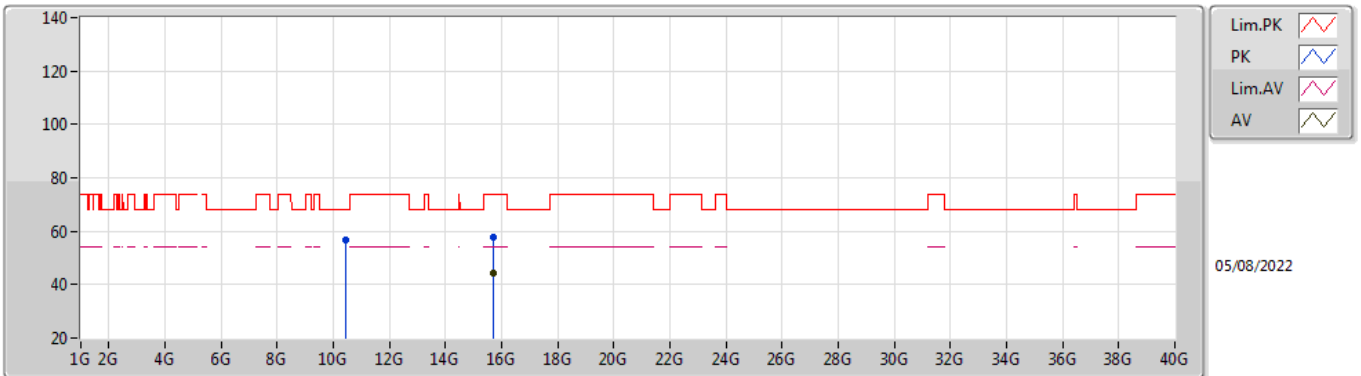


EUT_Z_2TX
Setting 20
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	65.65	74.00	-8.35	57.53	3	Horizontal	143	2.35	-	33.60	5.25	30.73
AV	5.15G	52.49	54.00	-1.51	44.37	3	Horizontal	143	2.35	-	33.60	5.25	30.73
PK	5.2318G	113.80	Inf	-Inf	105.51	3	Horizontal	143	2.35	-	33.70	5.32	30.73
AV	5.2312G	100.93	Inf	-Inf	92.64	3	Horizontal	143	2.35	-	33.70	5.32	30.73
PK	5.3554G	59.52	74.00	-14.48	50.95	3	Horizontal	143	2.35	-	33.91	5.38	30.72
AV	5.3542G	47.09	54.00	-6.91	38.52	3	Horizontal	143	2.35	-	33.91	5.38	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

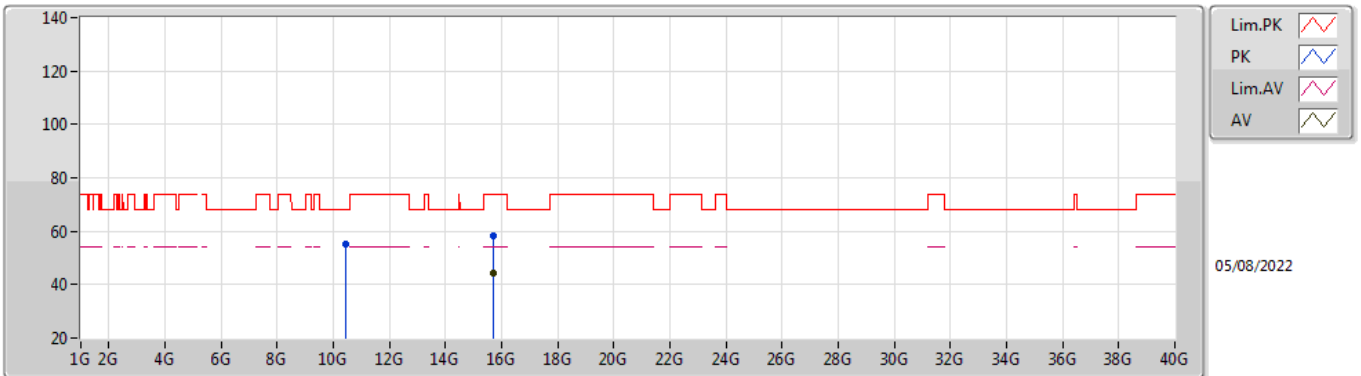


EUT_Z_2TX
Setting 20
02-F-G-4

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	10.45986G	56.95	68.20	-11.25	42.71	3	Vertical	246	1.97	-	38.60	7.48	31.84
PK	15.68862G	57.97	74.00	-16.03	42.04	3	Vertical	166	2.30	-	37.50	9.86	31.43
AV	15.68656G	44.30	54.00	-9.70	28.37	3	Vertical	166	2.30	-	37.50	9.86	31.43

802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TnomVnom

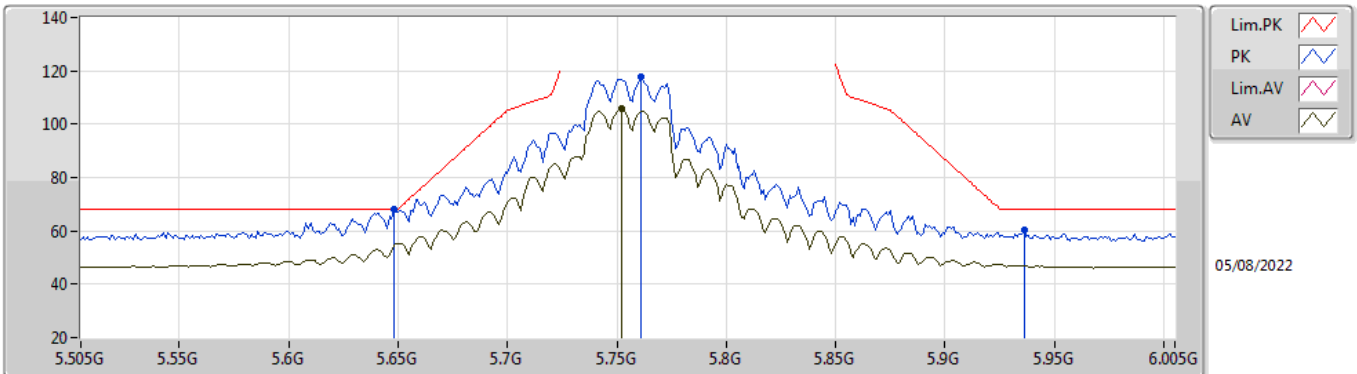


EUT_Z_2TX
Setting 20
02-F-G-4

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	10.45982G	54.94	68.20	-13.26	40.70	3	Horizontal	234	1.99	-	38.60	7.48	31.84
PK	15.68722G	58.19	74.00	-15.81	42.26	3	Horizontal	327	1.97	-	37.50	9.86	31.43
AV	15.68512G	44.26	54.00	-9.74	28.33	3	Horizontal	327	1.97	-	37.50	9.86	31.43

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

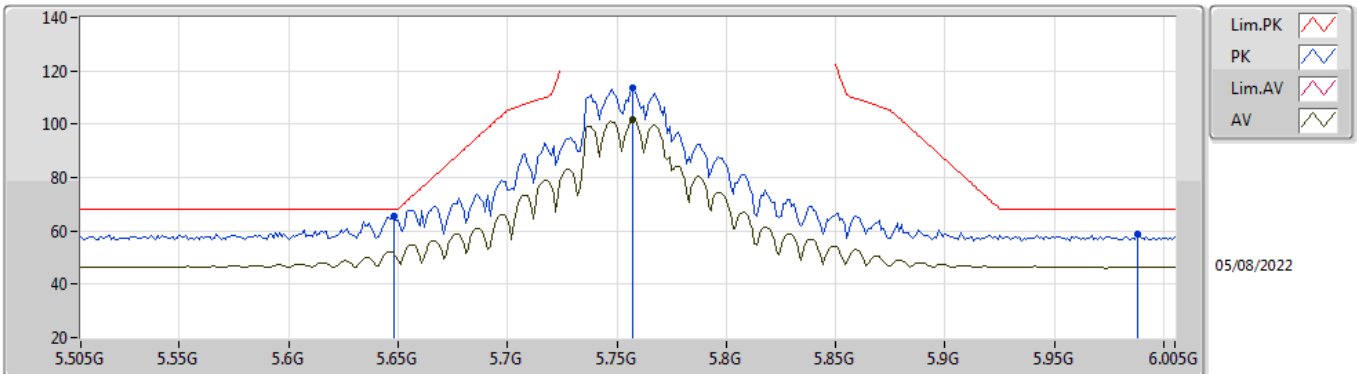


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.648G	67.92	68.20	-0.28	59.35	3	Vertical	270	2.26	-	33.80	5.60	30.83	
PK	5.761G	117.53	Inf	-Inf	109.05	3	Vertical	270	2.26	-	33.80	5.60	30.92	
AV	5.752G	105.77	Inf	-Inf	97.28	3	Vertical	270	2.26	-	33.80	5.60	30.91	
PK	5.936G	60.22	68.20	-7.98	51.36	3	Vertical	270	2.26	-	34.17	5.74	31.05	

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

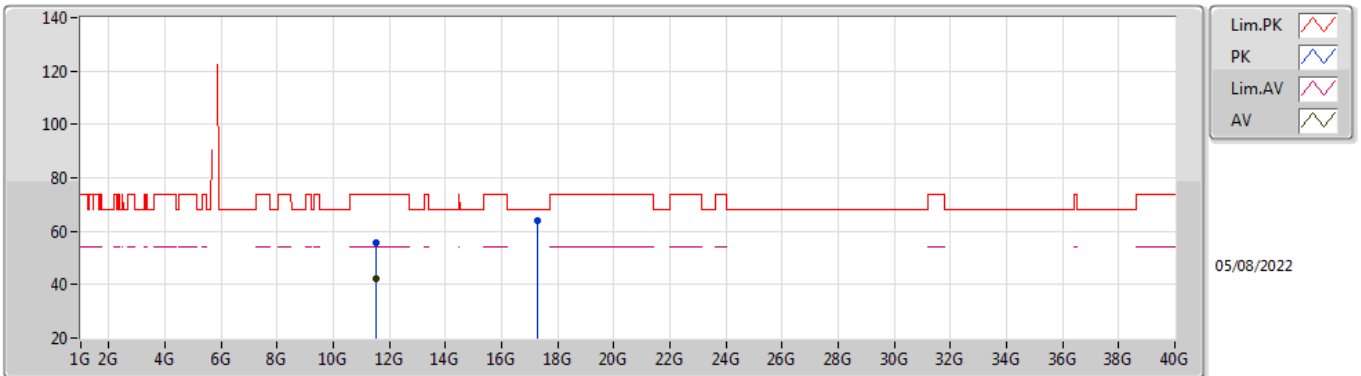


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.648G	65.62	68.20	-2.58	57.05	3	Horizontal	220	3.00	-	33.80	5.60	30.83
PK	5.757G	113.59	Inf	-Inf	105.11	3	Horizontal	220	3.00	-	33.80	5.60	30.92
AV	5.757G	101.48	Inf	-Inf	93.00	3	Horizontal	220	3.00	-	33.80	5.60	30.92
PK	5.988G	58.67	68.20	-9.53	49.77	3	Horizontal	220	3.00	-	34.20	5.79	31.09

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

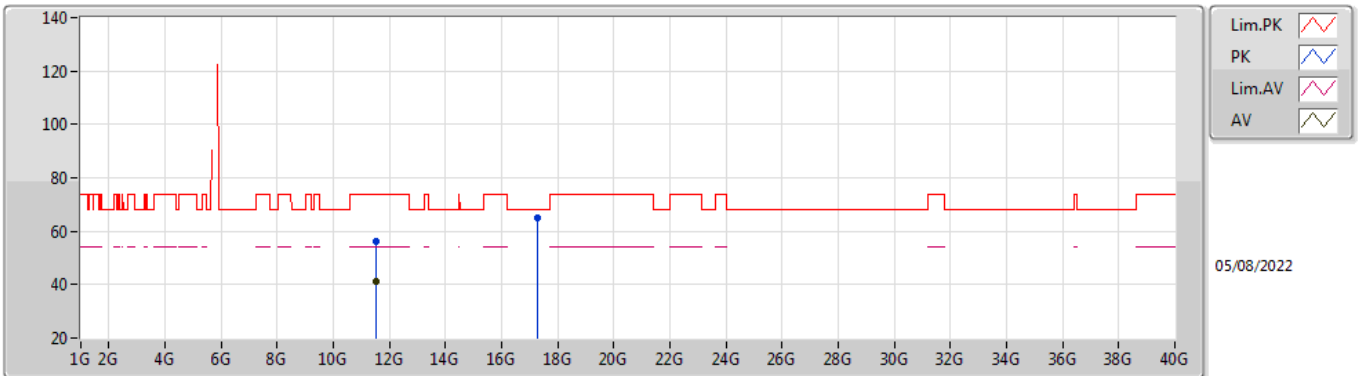


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.51884G	55.74	74.00	-18.26	40.90	3	Vertical	139	2.59	-	39.06	7.91	32.13
AV	11.51612G	42.25	54.00	-11.75	27.42	3	Vertical	139	2.59	-	39.05	7.91	32.13
PK	17.2634G	64.22	68.20	-3.98	41.50	3	Vertical	88	2.43	-	42.32	10.63	30.23

802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TnomVnom

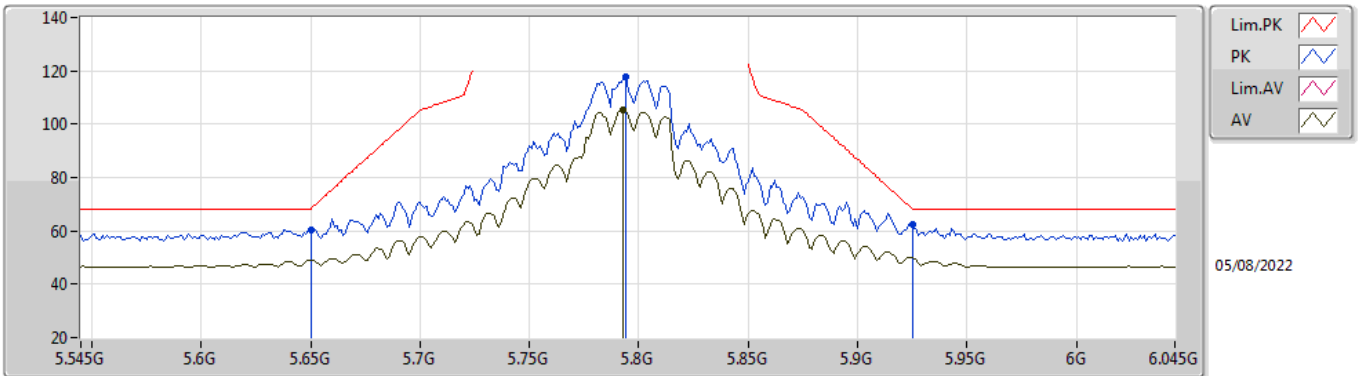


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.50332G	56.18	74.00	-17.82	41.39	3	Horizontal	205	2.95	-	39.01	7.90	32.12	
AV	11.5178G	41.23	54.00	-12.77	26.40	3	Horizontal	205	2.95	-	39.05	7.91	32.13	
PK	17.26612G	64.78	68.20	-3.42	42.05	3	Horizontal	71	2.23	-	42.33	10.63	30.23	

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

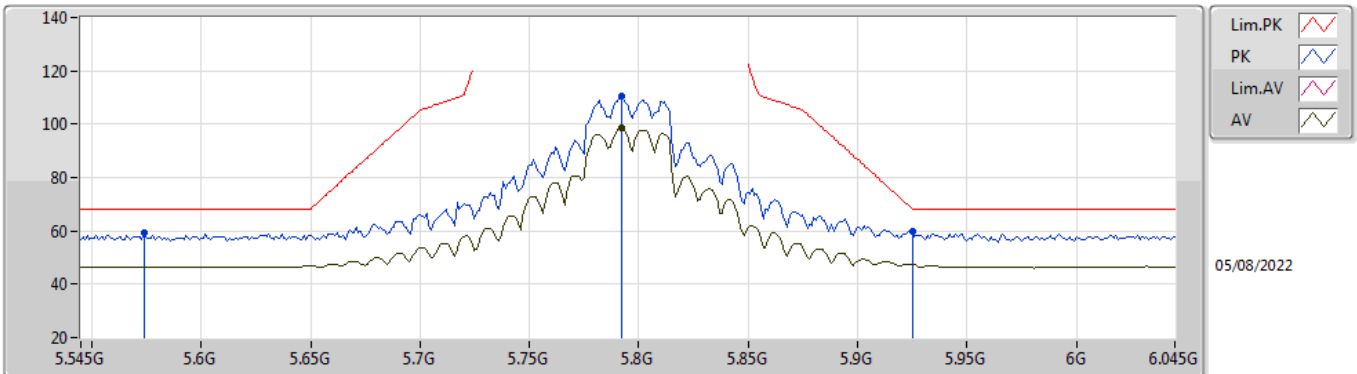


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.65G	60.56	68.20	-7.64	51.99	3	Vertical	268	2.44	-	33.80	5.60	30.83	
PK	5.794G	117.70	Inf	-Inf	109.24	3	Vertical	268	2.44	-	33.80	5.60	30.94	
AV	5.793G	105.34	Inf	-Inf	96.88	3	Vertical	268	2.44	-	33.80	5.60	30.94	
PK	5.925G	62.60	68.20	-5.60	53.76	3	Vertical	268	2.44	-	34.15	5.73	31.04	

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

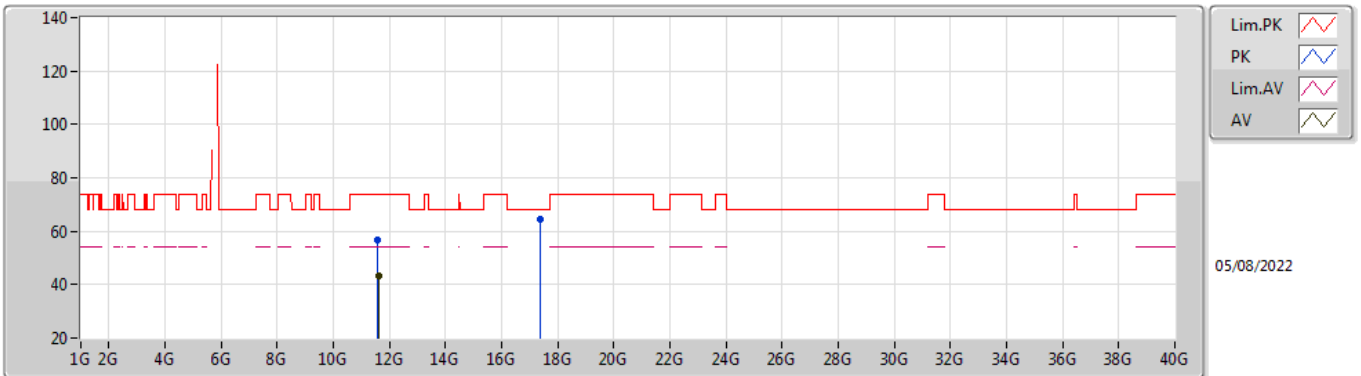


EUT_Z_2TX
Setting 23
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.574G	59.38	68.20	-8.82	50.64	3	Horizontal	281	2.31	-	33.95	5.57	30.78	
PK	5.792G	110.52	Inf	-Inf	102.06	3	Horizontal	281	2.31	-	33.80	5.60	30.94	
AV	5.792G	98.58	Inf	-Inf	90.12	3	Horizontal	281	2.31	-	33.80	5.60	30.94	
PK	5.925G	59.68	68.20	-8.52	50.84	3	Horizontal	281	2.31	-	34.15	5.73	31.04	

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

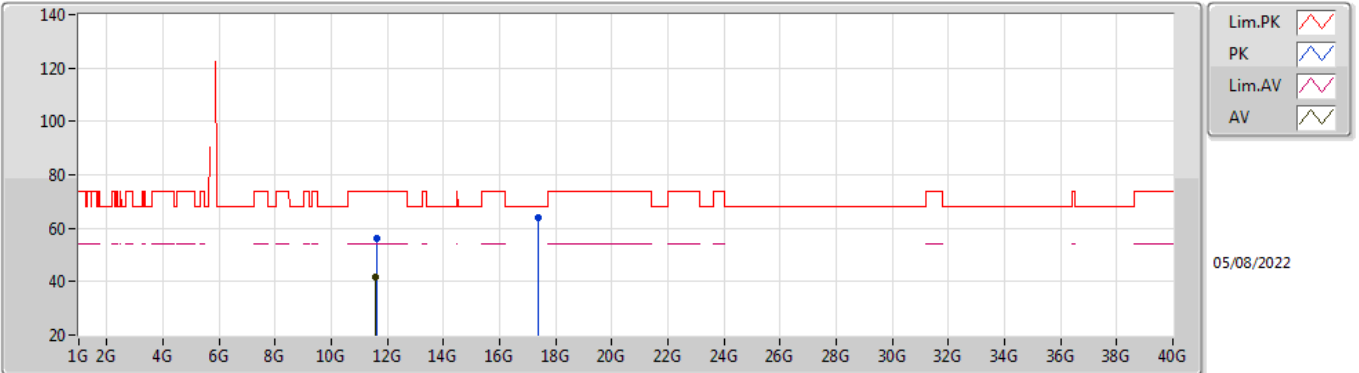


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.59396G	56.63	74.00	-17.37	41.58	3	Vertical	72	1.80	-	39.28	7.94	32.17
AV	11.59908G	43.19	54.00	-10.81	28.13	3	Vertical	72	1.80	-	39.30	7.94	32.18
PK	17.38082G	64.31	68.20	-3.89	40.86	3	Vertical	233	2.83	-	42.98	10.69	30.22

802.11ax HEW40_Nss1,(MCS0)_2TX

5795MHz_TnomVnom

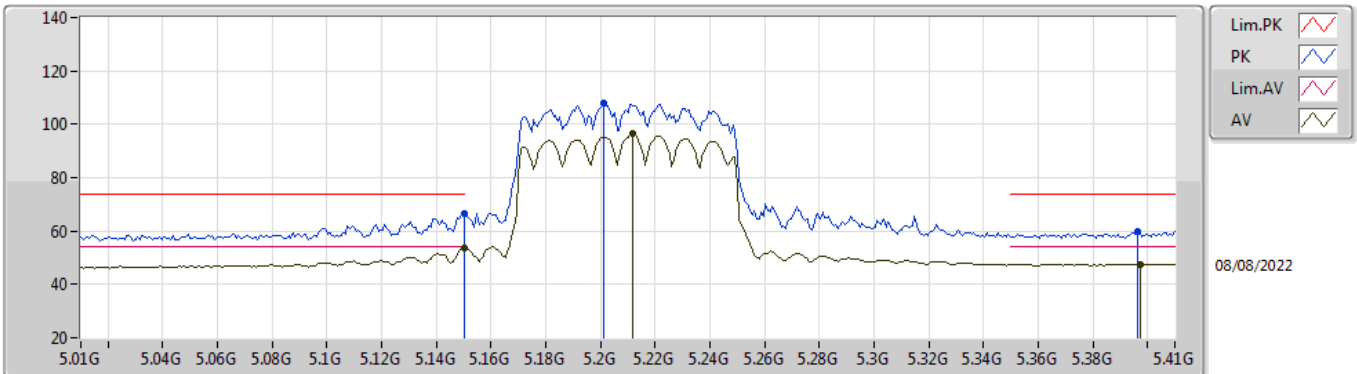


EUT_Z_2TX
Setting 23
02-F-G-4

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	11.59972G	56.02	74.00	-17.98	40.96	3	Horizontal	174	2.02	-	39.30	7.94	32.18
AV	11.58972G	41.71	54.00	-12.29	26.67	3	Horizontal	174	2.02	-	39.27	7.94	32.17
PK	17.38944G	63.95	68.20	-4.25	40.44	3	Horizontal	330	1.75	-	43.04	10.69	30.22

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

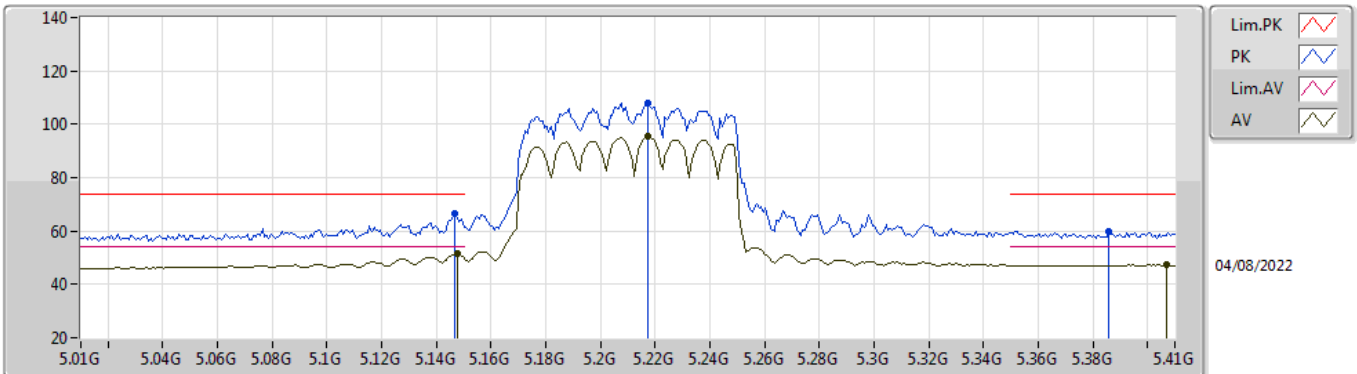


EUT_Z_2TX
Setting 17.5
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	66.31	74.00	-7.69	58.19	3	Vertical	0	1.99	-	33.60	5.25	30.73
AV	5.15G	53.62	54.00	-0.38	45.50	3	Vertical	0	1.99	-	33.60	5.25	30.73
PK	5.2012G	107.77	Inf	-Inf	99.50	3	Vertical	0	1.99	-	33.70	5.30	30.73
AV	5.2116G	96.48	Inf	-Inf	88.20	3	Vertical	0	1.99	-	33.70	5.31	30.73
PK	5.3964G	59.65	74.00	-14.35	50.98	3	Vertical	0	1.99	-	33.99	5.40	30.72
AV	5.3972G	47.66	54.00	-6.34	38.99	3	Vertical	0	1.99	-	33.99	5.40	30.72

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

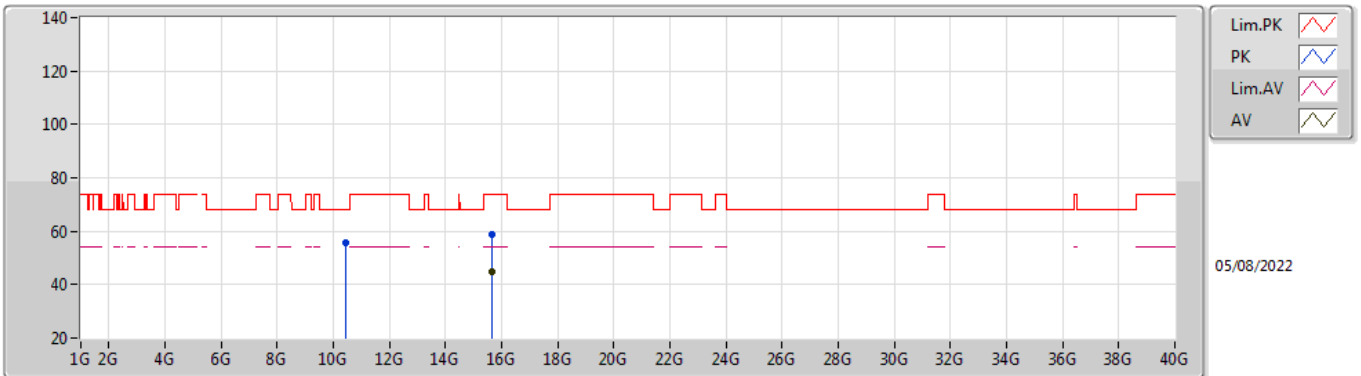


EUT_Z_2TX
Setting 17.5
02-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1468G	66.32	74.00	-7.68	58.21	3	Horizontal	142	2.70	-	33.59	5.25	30.73
AV	5.1476G	51.55	54.00	-2.45	43.43	3	Horizontal	142	2.70	-	33.60	5.25	30.73
PK	5.2172G	107.89	Inf	-Inf	99.61	3	Horizontal	142	2.70	-	33.70	5.31	30.73
AV	5.2172G	95.38	Inf	-Inf	87.10	3	Horizontal	142	2.70	-	33.70	5.31	30.73
PK	5.386G	60.01	74.00	-13.99	51.37	3	Horizontal	142	2.70	-	33.97	5.39	30.72
AV	5.4068G	47.30	54.00	-6.70	38.61	3	Horizontal	142	2.70	-	34.00	5.41	30.72

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

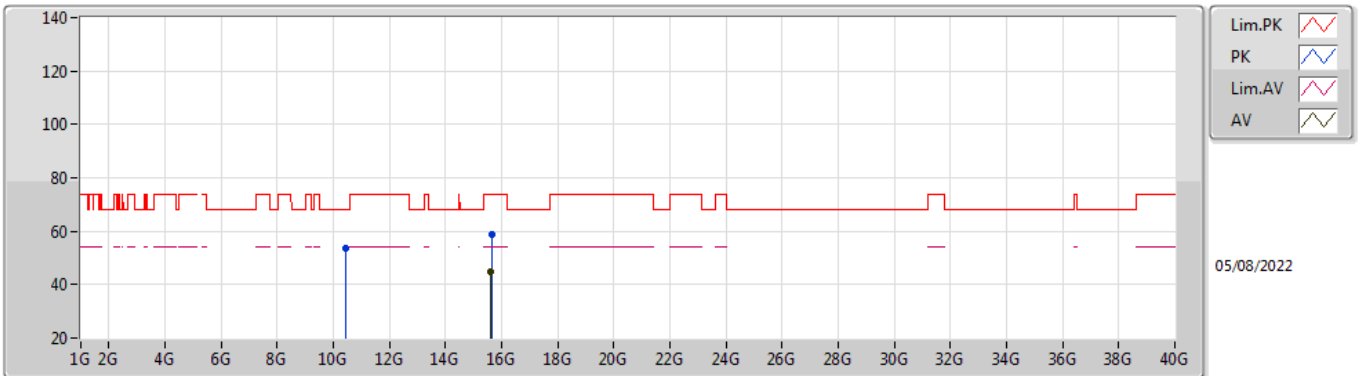


EUT_Z_2TX
Setting 17.5
02-F-G-4

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	10.41984G	55.59	68.20	-12.61	41.36	3	Vertical	245	2.00	-	38.60	7.47	31.84
PK	15.63254G	58.55	74.00	-15.45	42.62	3	Vertical	162	2.67	-	37.50	9.83	31.40
AV	15.6327G	44.92	54.00	-9.08	28.99	3	Vertical	162	2.67	-	37.50	9.83	31.40

802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TnomVnom

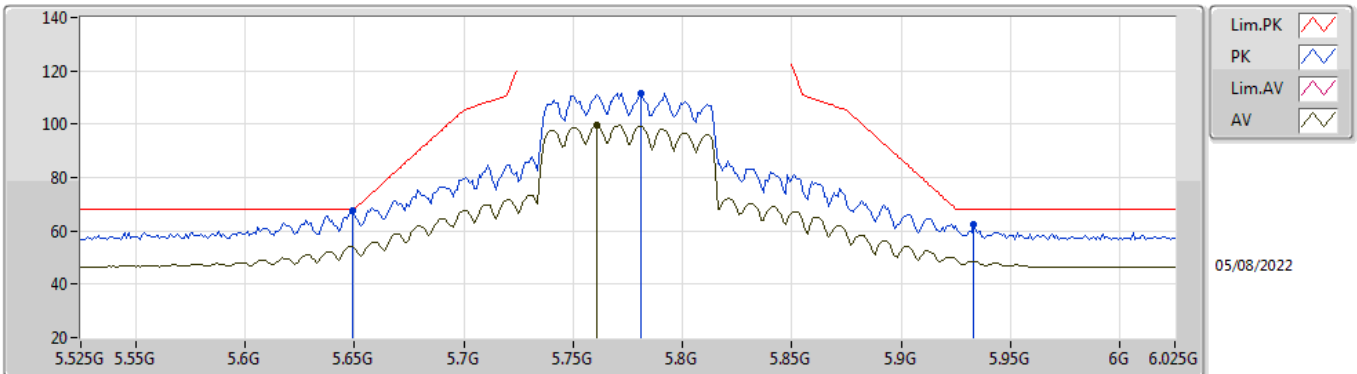


EUT_Z_2TX
Setting 17.5
02-F-G-4

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	10.42015G	53.53	68.20	-14.67	39.30	3	Horizontal	106	1.80	-	38.60	7.47	31.84
PK	15.63382G	58.64	74.00	-15.36	42.70	3	Horizontal	122	1.36	-	37.50	9.84	31.40
AV	15.62566G	45.04	54.00	-8.96	29.11	3	Horizontal	122	1.36	-	37.50	9.83	31.40

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

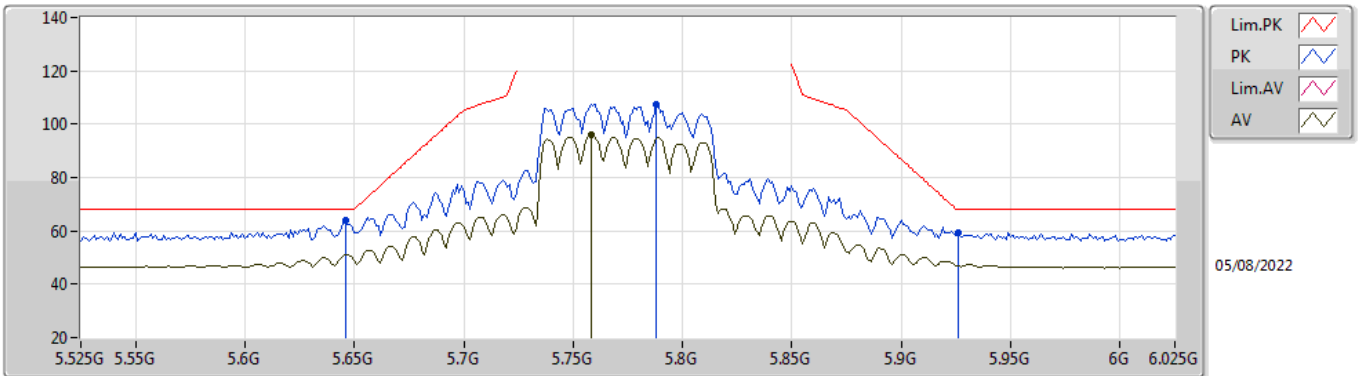


EUT_Z_2TX
Setting 20
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.649G	67.73	68.20	-0.47	59.16	3	Vertical	273	2.36	-	33.80	5.60	30.83	
PK	5.781G	111.72	Inf	-Inf	103.25	3	Vertical	273	2.36	-	33.80	5.60	30.93	
AV	5.761G	99.67	Inf	-Inf	91.19	3	Vertical	273	2.36	-	33.80	5.60	30.92	
PK	5.933G	62.26	68.20	-5.94	53.41	3	Vertical	273	2.36	-	34.17	5.73	31.05	

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

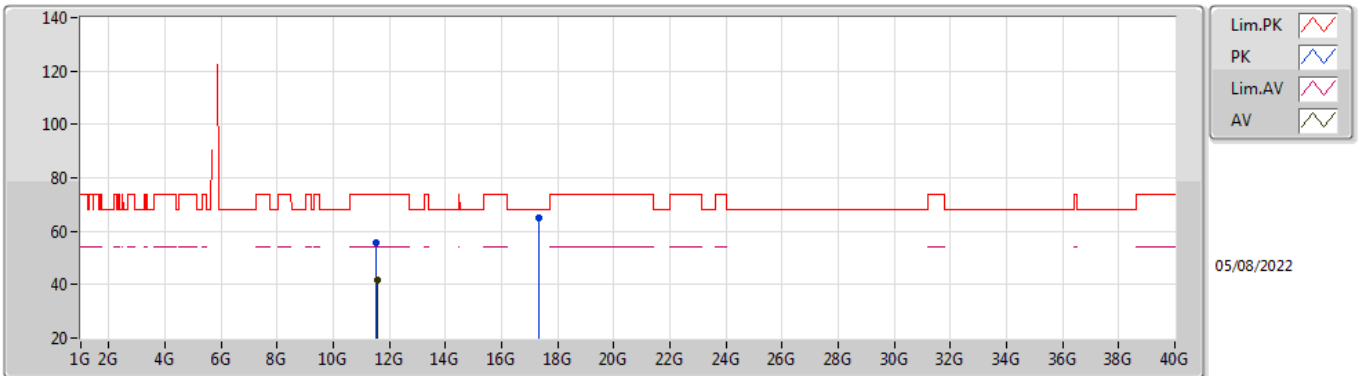


EUT_Z_2TX
Setting 20
02-F-G-4-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.646G	64.01	68.20	-4.19	55.43	3	Horizontal	235	2.96	-	33.81	5.60	30.83	
PK	5.788G	107.45	Inf	-Inf	98.99	3	Horizontal	235	2.96	-	33.80	5.60	30.94	
AV	5.758G	96.01	Inf	-Inf	87.53	3	Horizontal	235	2.96	-	33.80	5.60	30.92	
PK	5.926G	59.41	68.20	-8.79	50.57	3	Horizontal	235	2.96	-	34.15	5.73	31.04	

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom

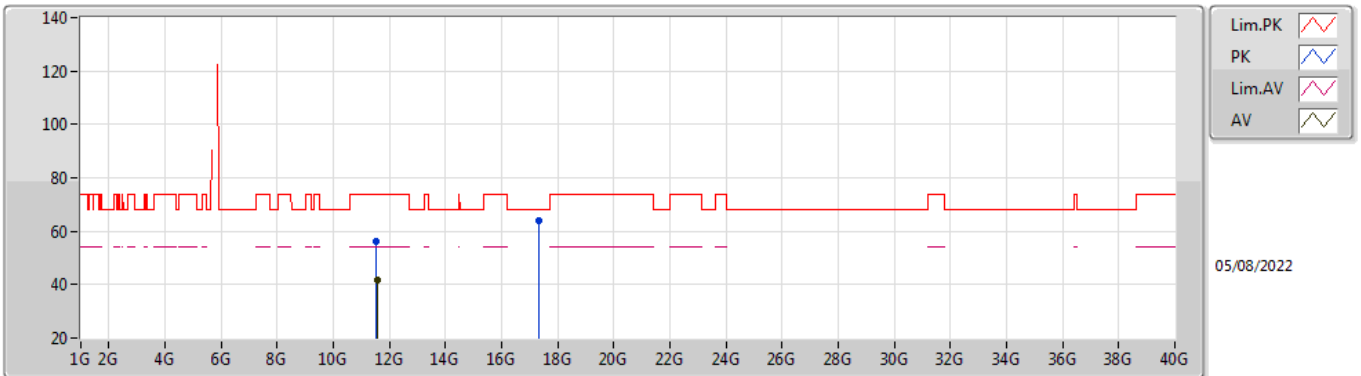


EUT_Z_2TX
Setting 20
02-F-G-4

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	11.54508G	55.68	74.00	-18.32	40.77	3	Vertical	195	1.98	-	39.14	7.92	32.15
AV	11.54972G	41.67	54.00	-12.33	26.75	3	Vertical	195	1.98	-	39.15	7.92	32.15
PK	17.31952G	65.04	68.20	-3.16	41.99	3	Vertical	335	2.70	-	42.62	10.66	30.23

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TnomVnom



EUT_Z_2TX
Setting 20
02-F-G-4

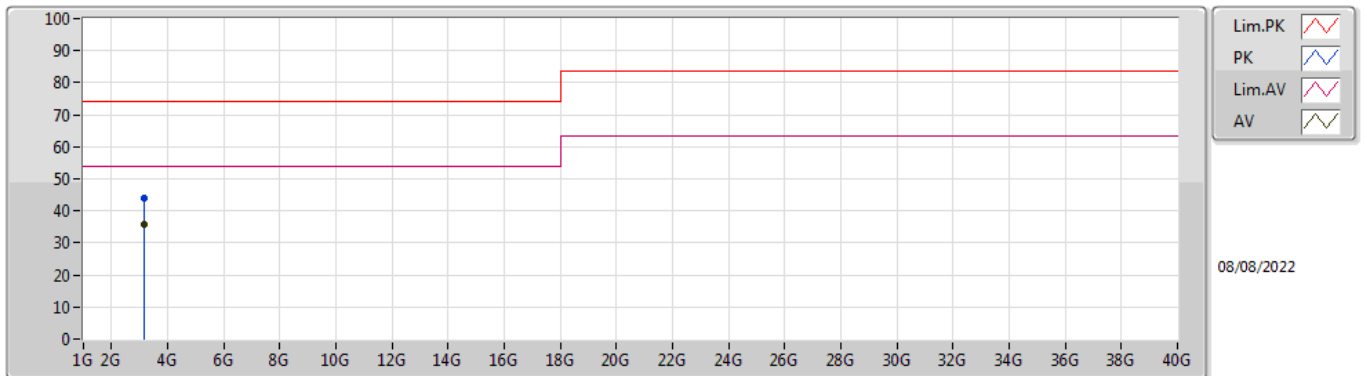
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.54236G	55.99	74.00	-18.01	41.08	3	Horizontal	93	2.16	-	39.13	7.92	32.14
AV	11.5524G	41.67	54.00	-12.33	26.74	3	Horizontal	93	2.16	-	39.16	7.92	32.15
PK	17.33472G	64.13	68.20	-4.07	40.98	3	Horizontal	88	2.92	-	42.71	10.67	30.23



Summary

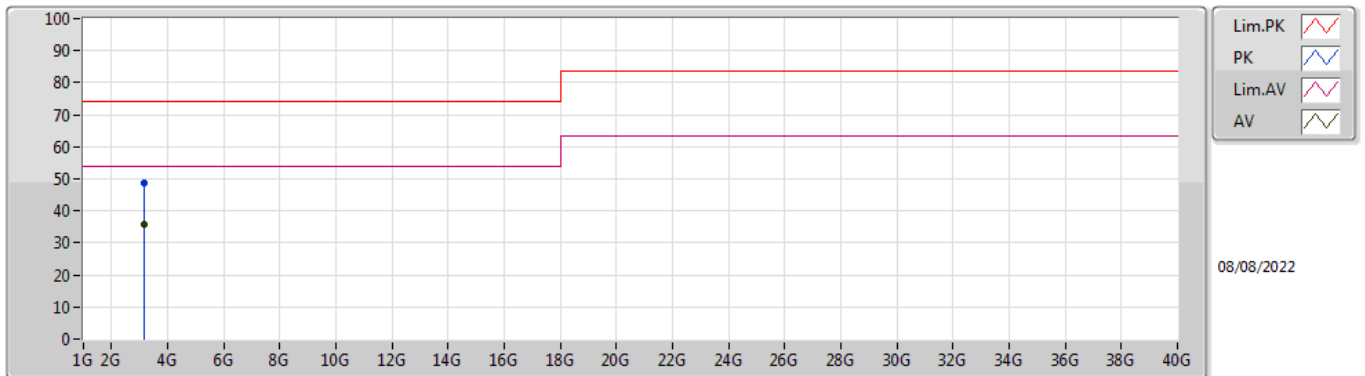
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.18763G	35.75	54.00	-18.25	Horizontal

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	3.18749G	44.12	74.00	-29.88	0.08	3	Vertical	180	1.10	-	44.04	29.03	4.39	33.34
AV	3.18765G	35.66	54.00	-18.34	0.07	3	Vertical	180	1.10	"Worst"	35.59	29.02	4.39	33.34

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	3.18752G	48.53	74.00	-25.47	0.07	3	Horizontal	324	1.00	-	48.46	29.02	4.39	33.34
AV	3.18763G	35.75	54.00	-18.25	0.07	3	Horizontal	324	1.00	"Worst"	35.68	29.02	4.39	33.34