

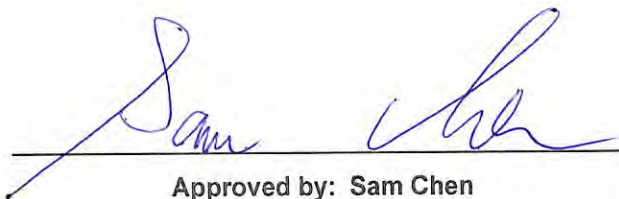


RADIO TEST REPORT

FCC ID : UIDG54
Equipment : Cable Modem
Brand Name : ARRIS
Model Name : G54
Applicant : ARRIS
3871 Lakefield Drive Suite 300 SUWANEE Georgia
United States 30024
Manufacturer : ARRIS
3871 Lakefield Drive Suite 300 SUWANEE Georgia
United States 30024
Standard : 47 CFR FCC Part 15.407

The product was received on Feb. 27, 2023, and testing was started from Feb. 27, 2023 and completed on Mar. 24, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



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



Summary of Test Result

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

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



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), be (EHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80), be (EHT80)	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	802.11be EHT20	20	2TX
5.15-5.25GHz	802.11be EHT20-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	802.11be EHT40	40	2TX
5.15-5.25GHz	802.11be EHT40-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
5.15-5.25GHz	802.11 be EHT80	80	2TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11 be EHT80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11be EHT20	20	2TX
5.725-5.85GHz	802.11be EHT20-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	802.11be EHT40	40	2TX
5.725-5.85GHz	802.11be EHT40-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
5.725-5.85GHz	802.11 be EHT80	80	2TX
5.725-5.85GHz	802.11 be EHT80-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, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40, EHT80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Ant. Type	Connector	Support Band
	2.4GHz	5GHz		6GHz					
		UNII1 UNII2A	UNII2C UNII3						
1	-	2	-	-	Wanshih	WPB866	DIPOLE	I-PEX	5GHz UNII 1, 2A
2	1	-	1	-	Wanshih	WPB867	DIPOLE	I-PEX	2.4GHz/5GHz UNII 2C, 3
3	-	1	-	-	Wanshih	WPB868	DIPOLE	I-PEX	5GHz UNII 1, 2A
4	2	-	2	-	Wanshih	WPB869	DIPOLE	I-PEX	2.4GHz/5GHz UNII 2C, 3
5	-	-	-	2	Wanshih	WPB870	DIPOLE	I-PEX	6GHz
6	-	-	-	1	Wanshih	WPB871	DIPOLE	I-PEX	6GHz
7	-	-	-	4	Wanshih	WPB872	DIPOLE	I-PEX	6GHz
8	-	-	-	3	Wanshih	WPB873	DIPOLE	I-PEX	6GHz

Ant.	Antenna Gain (dBi)			Ant.	Antenna Gain (dBi)	
	2.4GHz	5GHz UNII1 / UNII2A	5GHz UNII2C / UNII3		6GHz	
1	-	4.92	-	5	4.94	
2	4.14	-	4.75	6	5.68	
3	-	4.78	-	7	4.77	
4	2.64	-	4.60	8	5.83	

Note 1: The above information was declared by manufacturer.

Note 2: The DFS band and 6GHz doesn't enable at this time.

<For WLAN 2.4GHz>

For IEEE 802.11b/g/n/VHT 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 WLAN 5GHz>

For IEEE 802.11a/n/ac/ax/be 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 WLAN 6GHz>

For IEEE 802.11ax/be mode (4TX/4RX)

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

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

Note3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

$$2.4G\ G1 = 4.14\ dBi ; G2 = 2.64\ dBi ; DG = 6.43\ dBi$$

$$5G\ UNII-1\ G1 = 4.92\ dBi ; G2 = 4.78\ dBi ; DG = 7.86\ dBi$$

$$5G\ UNII-2A\ G1 = 4.92\ dBi ; G2 = 4.78\ dBi ; DG = 7.86\ dBi$$

$$5G\ UNII-2C\ G1 = 4.75\ dBi ; G2 = 4.60\ dBi ; DG = 7.69\ dBi$$

$$5G\ UNII-3\ G1 = 4.75\ dBi ; G2 = 4.60\ dBi ; DG = 7.69\ dBi$$

$$6G\ UNII-4\ G1 = 4.94\ dBi ; G2 = 5.68\ dBi ; G3 = 4.77\ dBi ; G4 = 5.83\ dBi ; DG = 11.34\ dBi$$

$$6G\ UNII-5\ G1 = 4.94\ dBi ; G2 = 5.68\ dBi ; G3 = 4.77\ dBi ; G4 = 5.83\ dBi ; DG = 11.34\ dBi$$

$$6G\ UNII-6\ G1 = 4.94\ dBi ; G2 = 5.68\ dBi ; G3 = 4.77\ dBi ; G4 = 5.83\ dBi ; DG = 11.34\ dBi$$

$$6G\ UNII-7\ G1 = 4.94\ dBi ; G2 = 5.68\ dBi ; G3 = 4.77\ dBi ; G4 = 5.83\ dBi ; DG = 11.34\ dBi$$

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)
802.11a	0.93	0.32	2m
802.11be EHT20	0.802	0.96	5.52m
802.11be EHT40	0.8	0.97	5.52m
802.11be EHT80	0.8	0.97	5.52m

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax/be in 5GHz UNII 1,3			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QSPR(Version 5.0-00202)			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Mason Chen	22~26 / 51~55	Mar. 02, 2023~ Mar. 03, 2023
Radiated <Below 1GHz>	03CH01-CB	Ederson Huang	20.2-21.3 / 66-67	Feb. 27, 2023~ Mar. 24, 2023
Radiated <Co-location>	03CH06-CB	Ederson Huang	20-21 / 65-68	Feb. 27, 2023~ Mar. 24, 2023
Radiated <Above 1GHz>	03CH01-CB	Ederson Huang	20.6~22.6 / 63~66	Feb. 27, 2023~ Mar. 24, 2023
AC Conduction	CO01-CB	Elvin Yeh	22~23 / 50~51	Mar. 22, 2023



1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	22
5200MHz	24.5
5240MHz	25
5745MHz	28
5785MHz	28
5825MHz	28
802.11be EHT20_Nss1,(MCS0)_2TX	-
5180MHz	22.5
5200MHz	25.5
5240MHz	25
5745MHz	28
5785MHz	28
5825MHz	28
802.11be EHT40_Nss1,(MCS0)_2TX	-
5190MHz	18.5
5230MHz	25.5
5755MHz	23
5795MHz	28
802.11be EHT80_Nss1,(MCS0)_2TX	-
5210MHz	19.5
5775MHz	22.5
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	22.5
5200MHz	25.5
5240MHz	25
5745MHz	26.5
5785MHz	27.5
5825MHz	27.5
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	18.5
5230MHz	25.5
5755MHz	23
5795MHz	28
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	19.5



Mode	Power Setting
5775MHz	22.5

Note:

- ♦ Evaluated EHT20/EHT40/EHT80 mode only. Due to similar modulation, The power setting of HT20/HT40/VHT20/VHT40/VHT80/HEW20/HEW40/HEW80 mode are the same or lower than EHT20/EHT40 /EHT80.
- ♦ 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	CTX
1	EUT_WLAN 2.4GHz + Adapter 1
2	EUT_WLAN 2.4GHz + Adapter 2
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT_WLAN 5GHz + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density Unwanted Emissions
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	CTX
The EUT was performed at X axis, Y axis and Z axis position for Radiated measurement<Above 1GHz>, and the worst case was found at X axis position for 2.4GHz, Y axis position for 5GHz. Thus the measurement will follow the same test configuration.	
1	EUT in X axis_WLAN 2.4GHz + Adapter 1
2	EUT in X axis_WLAN 2.4GHz + Adapter 2
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis: WLAN 5GHz + Adapter 2
For operating mode 3 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: Thus the measurement will follow the same test configuration	
1	EUT in Z axis: UNII1 EUT in Y axis: UNII3

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 was performed at X axis, Y axis and Z axis position for Radiated measurement<Above 1GHz>, the worst case was found at Y axis position. Thus the measurement will follow the same test configuration.	
1	EUT in Y axis_WLAN 2.4GHz + WLAN 5GHz High Band
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA321751 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	MOSO	MS-V4000R120-050A0-US	INPUT: 100-240V ~ 50/60Hz, 1.3A max. OUTPUT: 12.0V, 4.0A
Adapter 2	Frecom	F48L1-120400SPAU	INPUT: 100-240V ~ 50/60Hz, 1.4A OUTPUT: 12.0V, 4.0A, 48.0W

2.5 Support Equipment

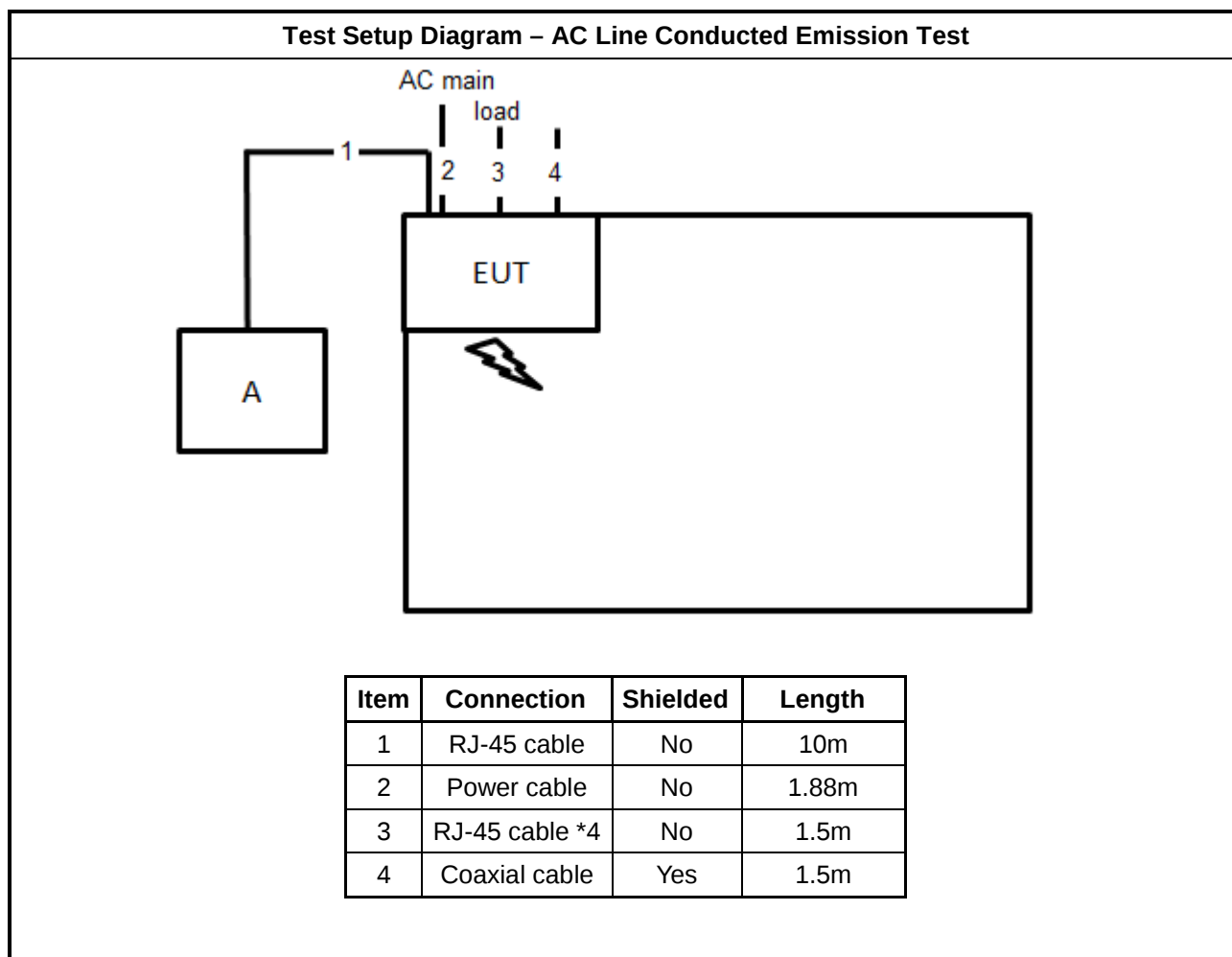
For AC Conduction:

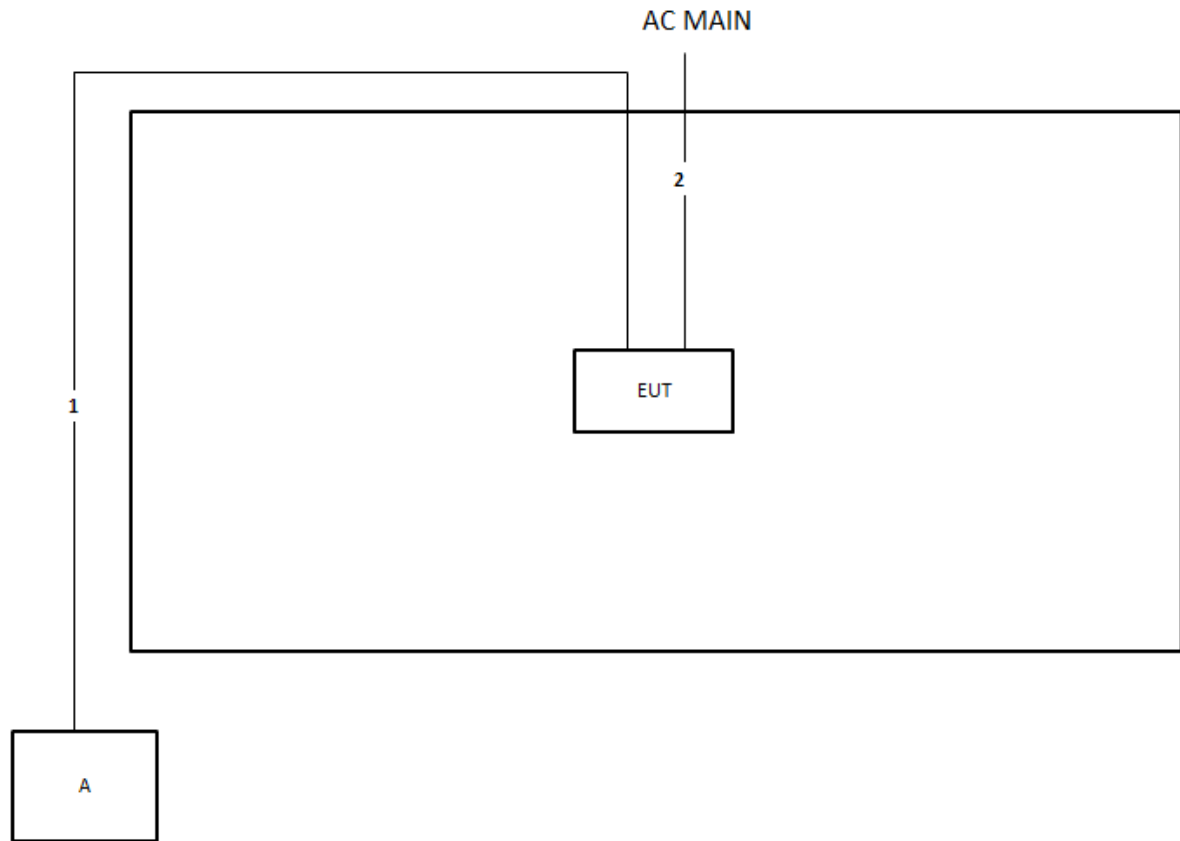
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	Lenovo	L440	N/A

For Radiated and RF Conducted:

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

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.88m



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.		

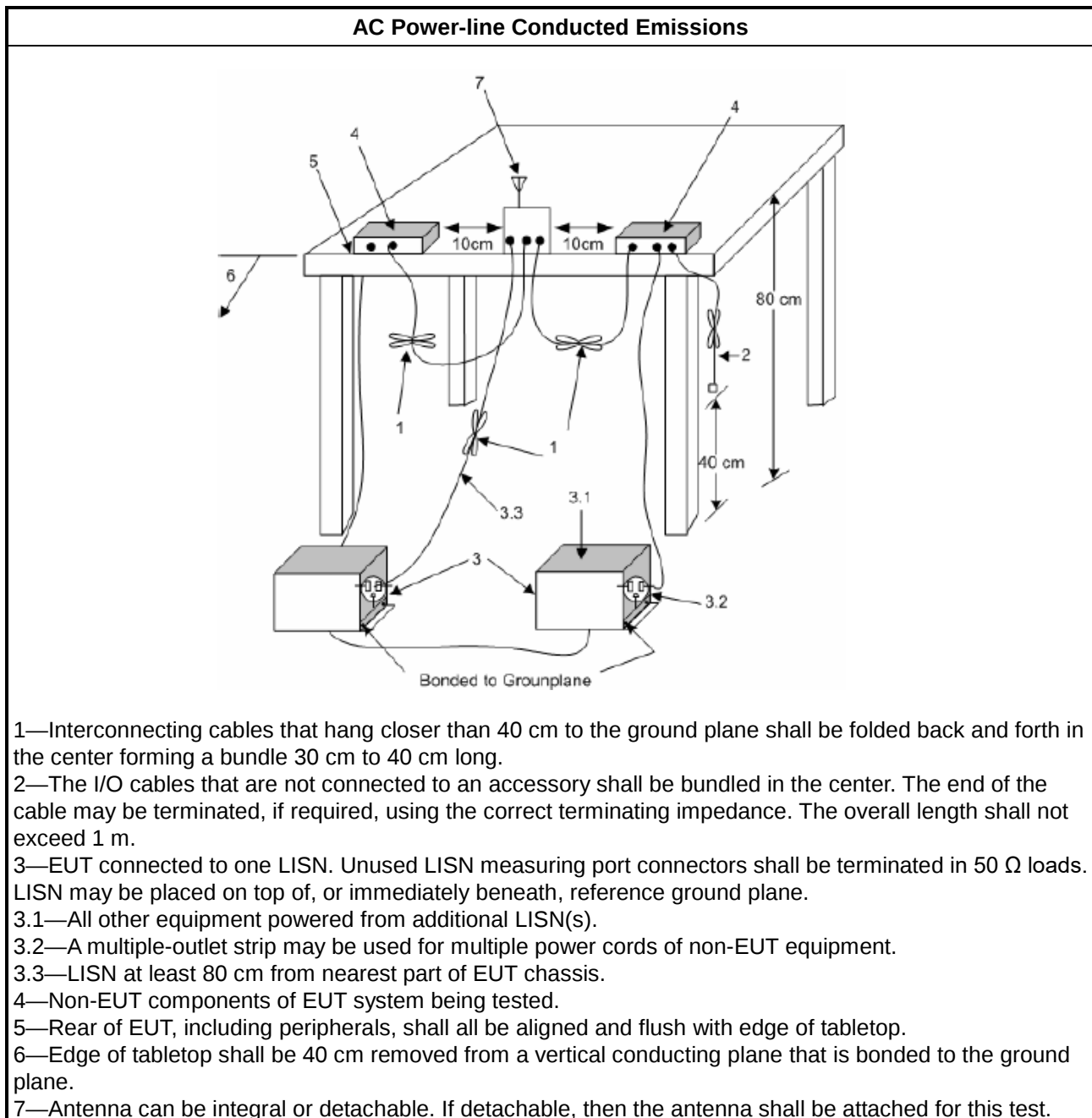
3.1.2 Measuring Instruments

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 $\geq 500\text{kHz}$.
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 $\geq 500\text{kHz}$.

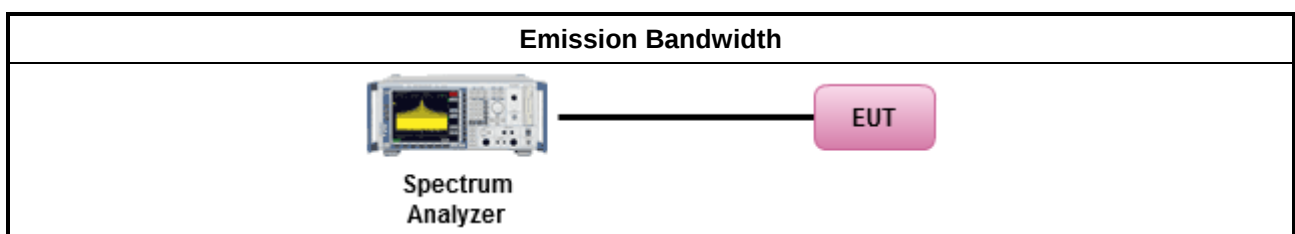
3.2.2 Measuring Instruments

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.
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.	

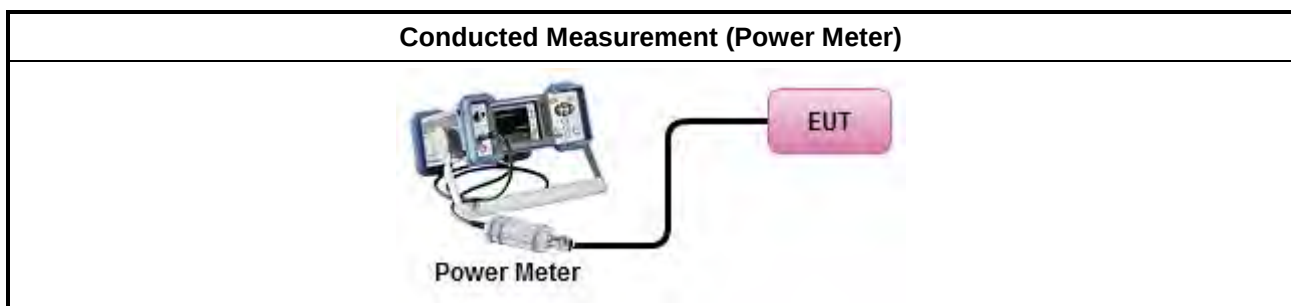
3.3.2 Measuring Instruments

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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



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.
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

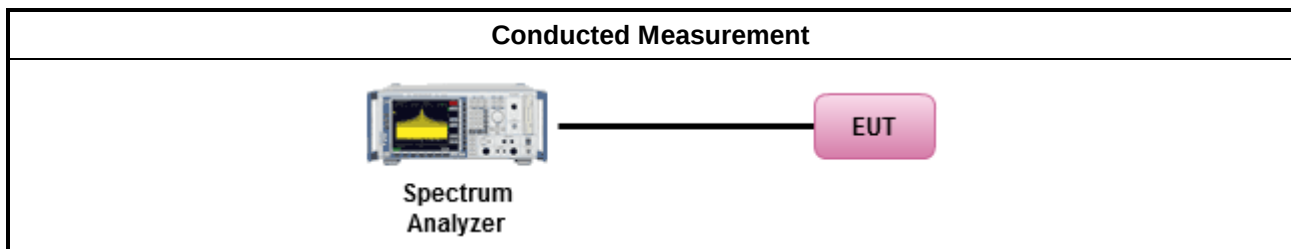
Refer a test equipment and calibration data table in this test report.

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]) $EIRP_{total} = PPSD_{total} + DG$	
☐ For radiated measurement.	
Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	

Test Method	
	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.

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).

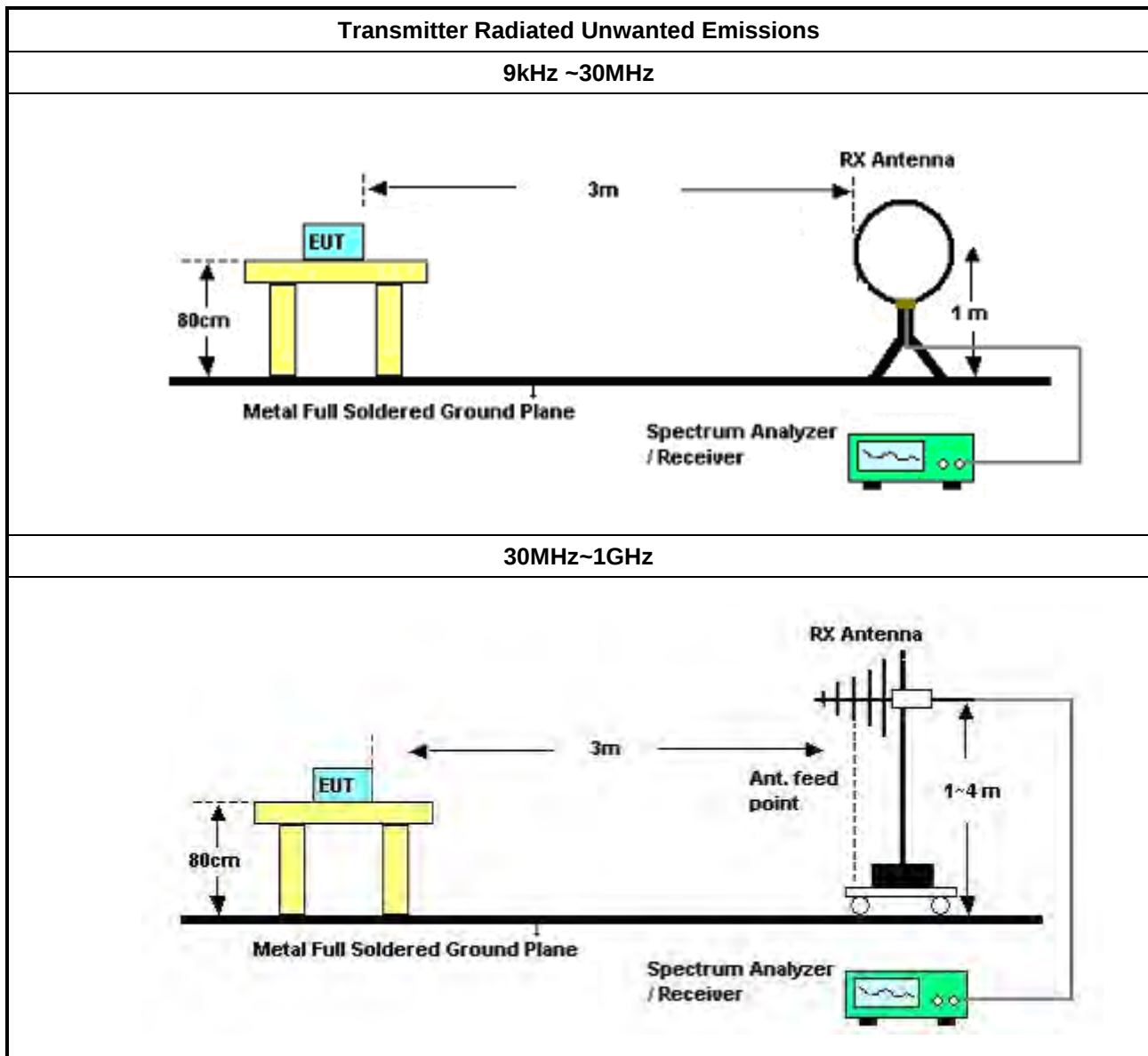
3.5.2 Measuring Instruments

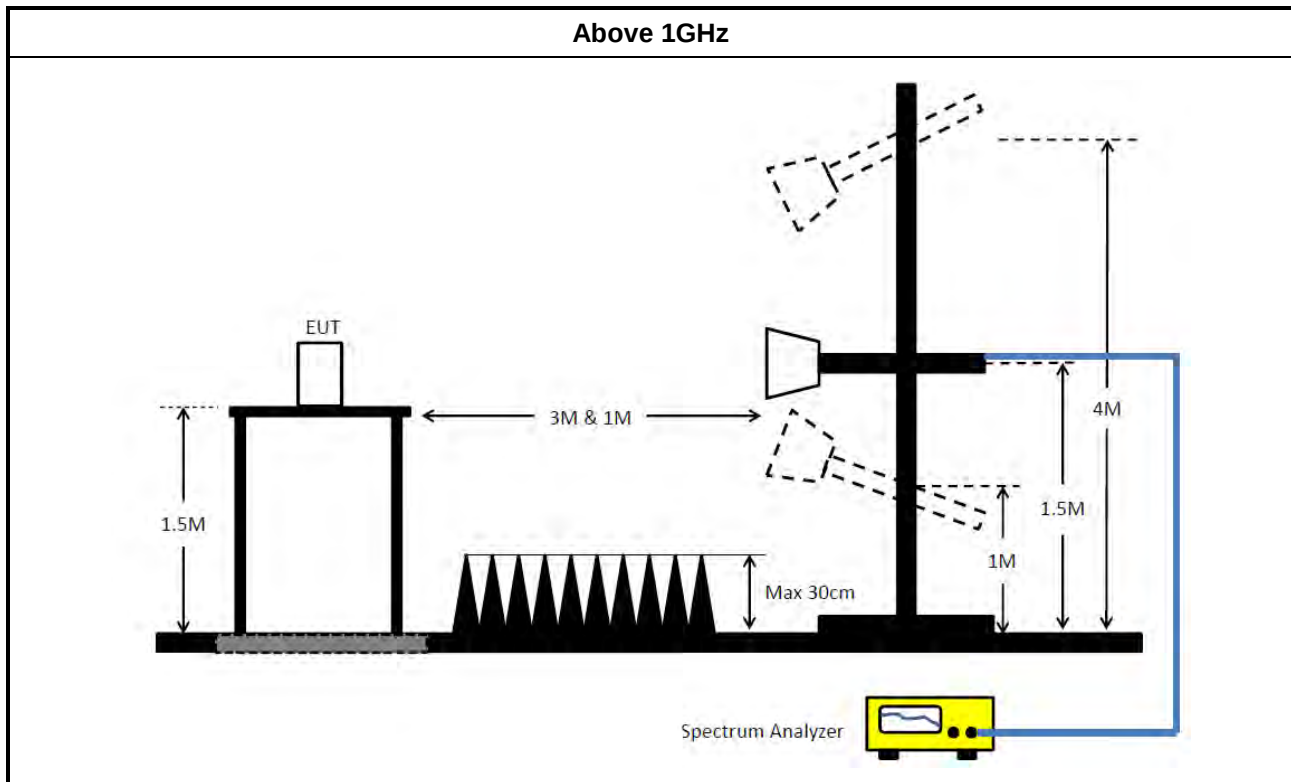
Refer a test equipment and calibration data table in this test report.

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. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 20, 2022	Dec. 19, 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. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2023	Jan. 15, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH01-CB)
Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Sep. 30, 2022	Sep. 29, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 09, 2022	Aug. 08, 2023	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-68	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Dec. 21, 2022	Dec. 20, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)



RADIO TEST REPORT

Report No. : FR321571AB

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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



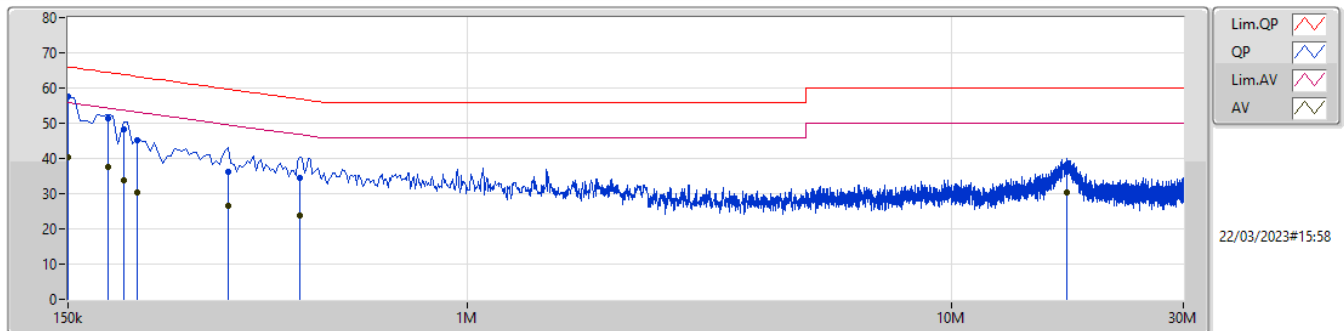
Conducted Emissions at Powerline

Appendix A

Summary

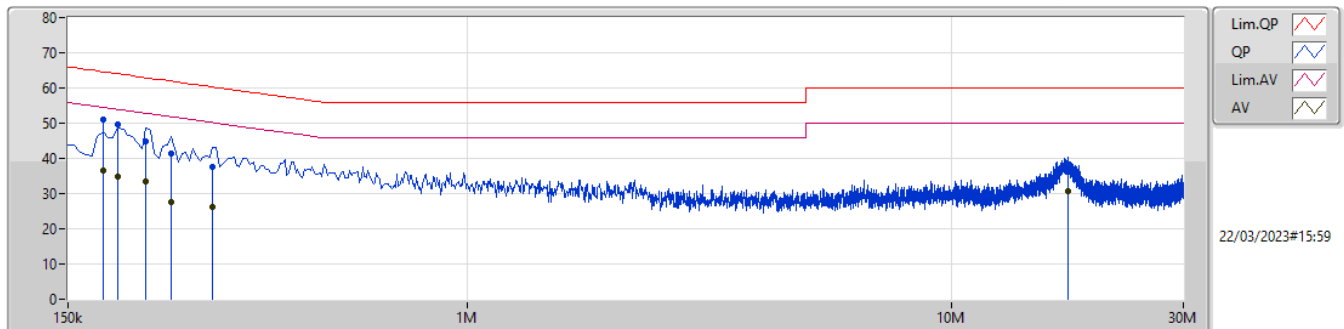
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	150k	57.50	66.00	-8.50	Line

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	57.50	66.00	-8.50	9.97	Line	"Worst"	47.53	0.06	0.04	9.87						
AV	150k	40.40	56.00	-15.60	9.97	Line	-	30.43	0.06	0.04	9.87						
QP	181.5k	51.37	64.41	-13.04	9.96	Line	-	41.41	0.06	0.04	9.86						
AV	181.5k	37.46	54.41	-16.95	9.96	Line	-	27.50	0.06	0.04	9.86						
QP	195k	48.33	63.82	-15.49	9.96	Line	-	38.37	0.06	0.04	9.86						
AV	195k	33.90	53.82	-19.92	9.96	Line	-	23.94	0.06	0.04	9.86						
QP	208.5k	45.19	63.27	-18.08	9.96	Line	-	35.23	0.06	0.04	9.86						
AV	208.5k	30.48	53.27	-22.79	9.96	Line	-	20.52	0.06	0.04	9.86						
QP	321k	36.07	59.67	-23.60	10.00	Line	-	26.07	0.06	0.05	9.89						
AV	321k	26.72	49.67	-22.95	10.00	Line	-	16.72	0.06	0.05	9.89						
QP	451.5k	34.41	56.84	-22.43	10.02	Line	-	24.39	0.06	0.06	9.90						
AV	451.5k	23.74	46.84	-23.10	10.02	Line	-	13.72	0.06	0.06	9.90						
QP	17.268M	36.29	60.00	-23.71	10.46	Line	-	25.83	0.28	0.19	9.99						
AV	17.268M	30.22	50.00	-19.78	10.46	Line	-	19.76	0.28	0.19	9.99						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	177k	51.00	64.62	-13.62	9.98	Neutral	"Worst"	41.02	0.07	0.04	9.87						
AV	177k	36.52	54.62	-18.10	9.98	Neutral	-	26.54	0.07	0.04	9.87						
QP	190.5k	49.61	64.01	-14.40	9.97	Neutral	-	39.64	0.07	0.04	9.86						
AV	190.5k	34.78	54.01	-19.23	9.97	Neutral	-	24.81	0.07	0.04	9.86						
QP	217.5k	44.87	62.92	-18.05	9.97	Neutral	-	34.90	0.07	0.04	9.86						
AV	217.5k	33.59	52.92	-19.33	9.97	Neutral	-	23.62	0.07	0.04	9.86						
QP	244.5k	41.48	61.95	-20.47	9.99	Neutral	-	31.49	0.07	0.05	9.87						
AV	244.5k	27.57	51.95	-24.38	9.99	Neutral	-	17.58	0.07	0.05	9.87						
QP	298.5k	37.55	60.28	-22.73	10.00	Neutral	-	27.55	0.07	0.05	9.88						
AV	298.5k	26.37	50.28	-23.91	10.00	Neutral	-	16.37	0.07	0.05	9.88						
QP	17.3M	36.60	60.00	-23.40	10.47	Neutral	-	26.13	0.29	0.19	9.99						
AV	17.3M	30.62	50.00	-19.38	10.47	Neutral	-	20.15	0.29	0.19	9.99						

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	37.56M	18.529M	18M5D1D	26.19M	16.745M
802.11be EHT20_Nss1,(MCS0)_2TX	48.48M	19.806M	19M8D1D	26.67M	19.1M
802.11be EHT40_Nss1,(MCS0)_2TX	67.26M	39.611M	39M6D1D	43.74M	38.083M
802.11be EHT80_Nss1,(MCS0)_2TX	89.76M	78.047M	78M0D1D	87.48M	77.695M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	32.751M	32M8D1D	16.26M	30.33M
802.11be EHT20_Nss1,(MCS0)_2TX	19.02M	35.497M	35M5D1D	18.69M	32.912M
802.11be EHT40_Nss1,(MCS0)_2TX	38.22M	68.115M	68M1D1D	38.04M	38.142M
802.11be EHT80_Nss1,(MCS0)_2TX	78.12M	78.047M	78M0D1D	78M	77.93M

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

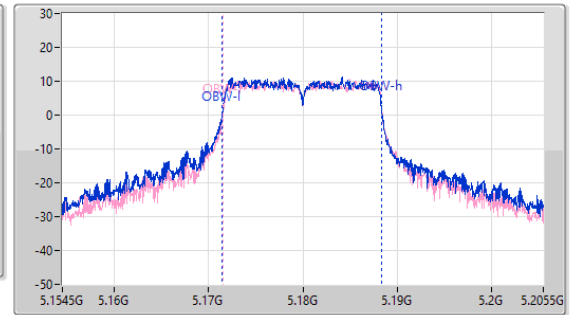
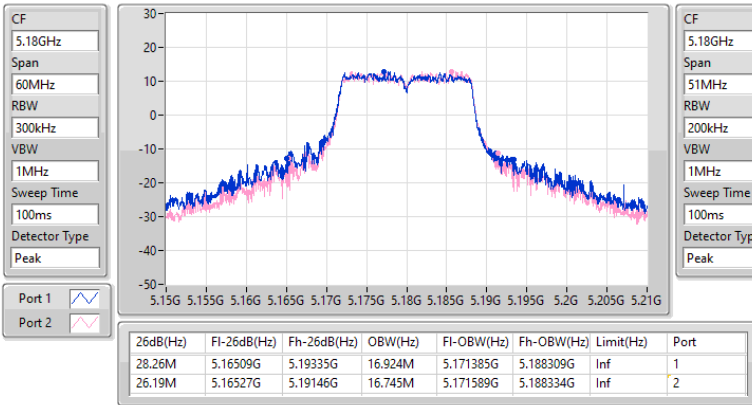
Result

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	28.26M	16.924M	26.19M	16.745M
5200MHz	Pass	Inf	36.75M	17.255M	29.79M	16.847M
5240MHz	Pass	Inf	35.91M	17.306M	37.56M	18.529M
5745MHz	Pass	500k	16.35M	30.33M	16.32M	32.292M
5785MHz	Pass	500k	16.35M	31.069M	16.35M	31.961M
5825MHz	Pass	500k	16.35M	30.967M	16.26M	32.751M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	35.28M	19.1M	26.67M	19.159M
5200MHz	Pass	Inf	48.48M	19.806M	39.06M	19.247M
5240MHz	Pass	Inf	38.01M	19.277M	43.86M	19.571M
5745MHz	Pass	500k	18.99M	32.912M	18.99M	34.733M
5785MHz	Pass	500k	19.02M	33.793M	19.02M	34.645M
5825MHz	Pass	500k	18.93M	33.44M	18.69M	35.497M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	45.42M	39.611M	43.74M	38.083M
5230MHz	Pass	Inf	67.26M	38.26M	65.52M	38.377M
5755MHz	Pass	500k	38.1M	38.142M	38.04M	38.142M
5795MHz	Pass	500k	38.16M	66.881M	38.22M	68.115M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	89.76M	78.047M	87.48M	77.695M
5775MHz	Pass	500k	78M	78.047M	78.12M	77.93M

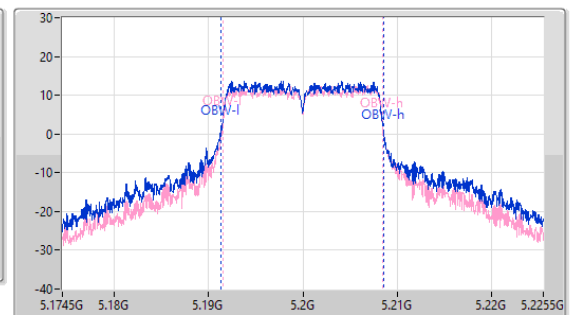
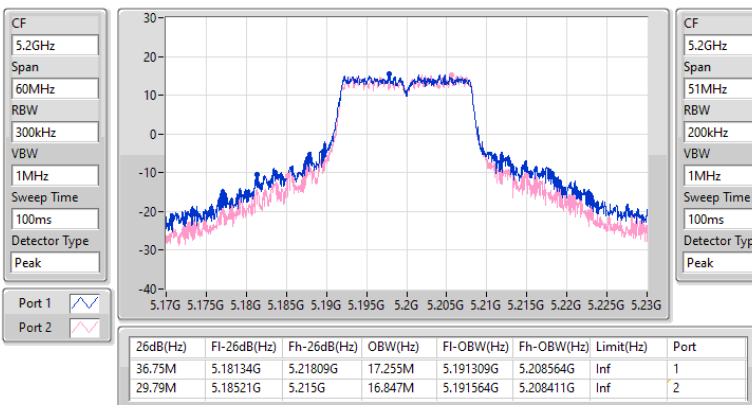
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

02/03/2023

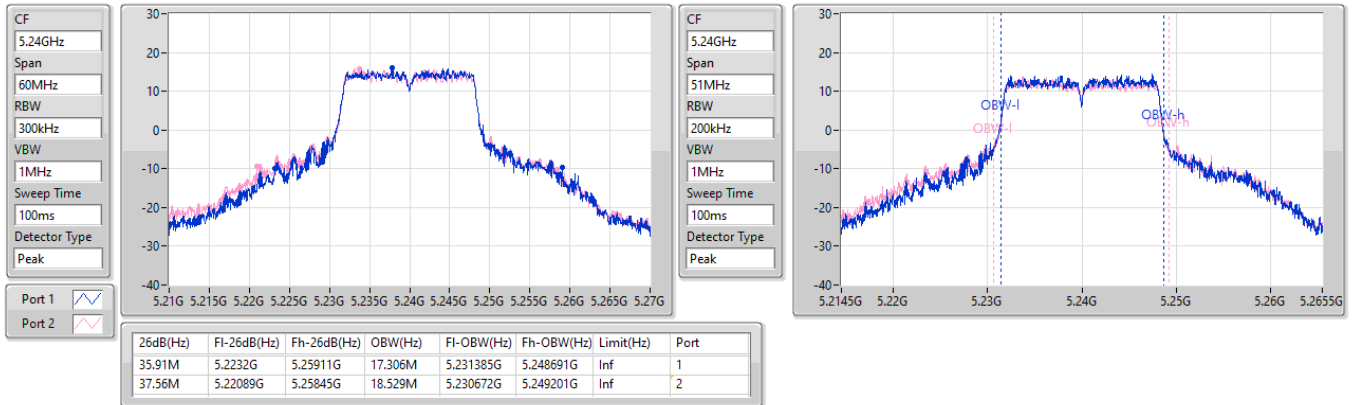

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

02/03/2023

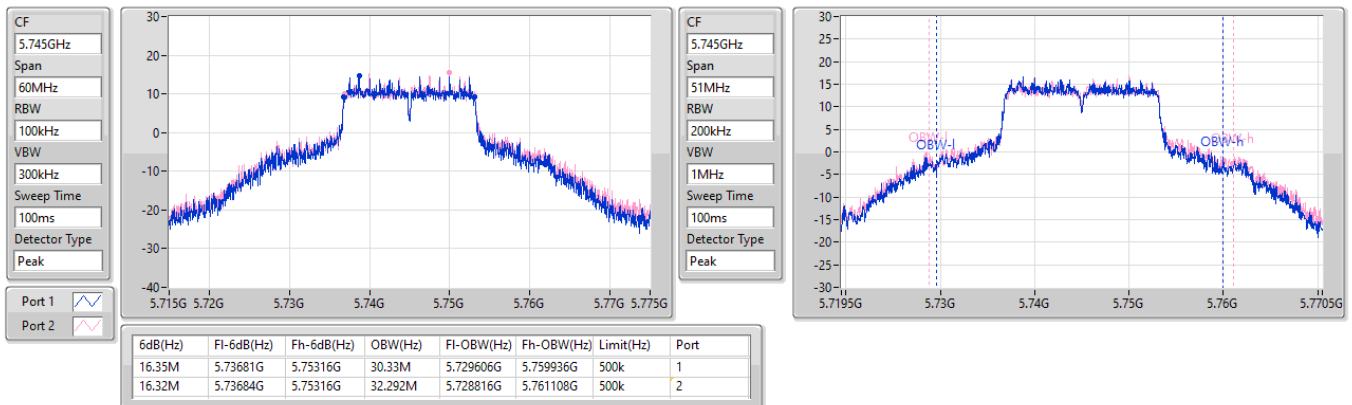


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

02/03/2023

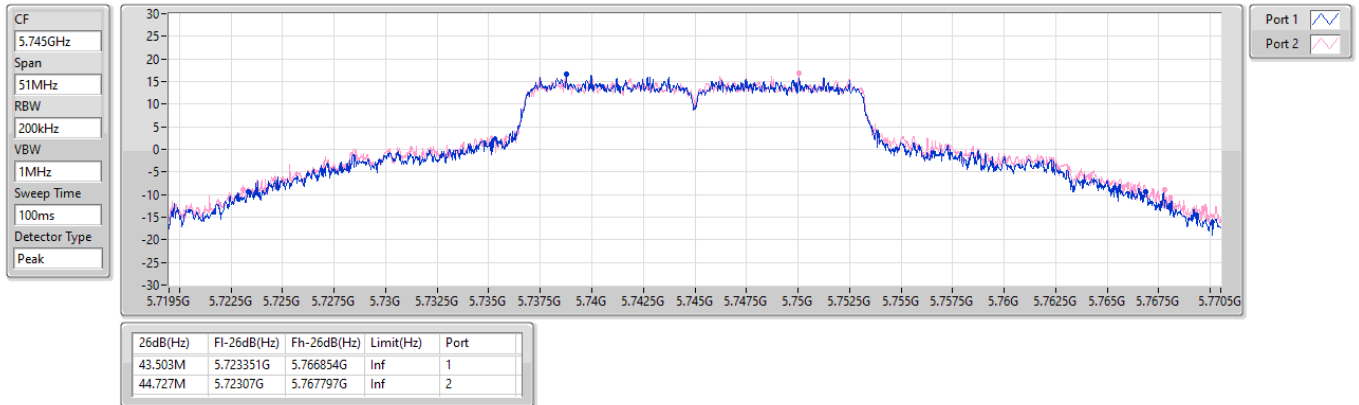

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

02/03/2023

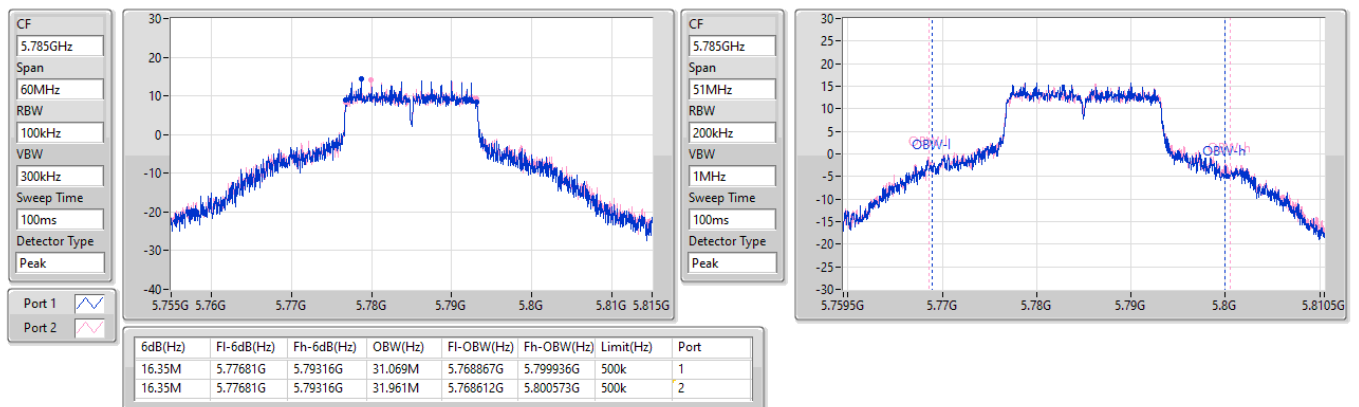


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

02/03/2023


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

02/03/2023



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

02/03/2023

CF
5.785GHz

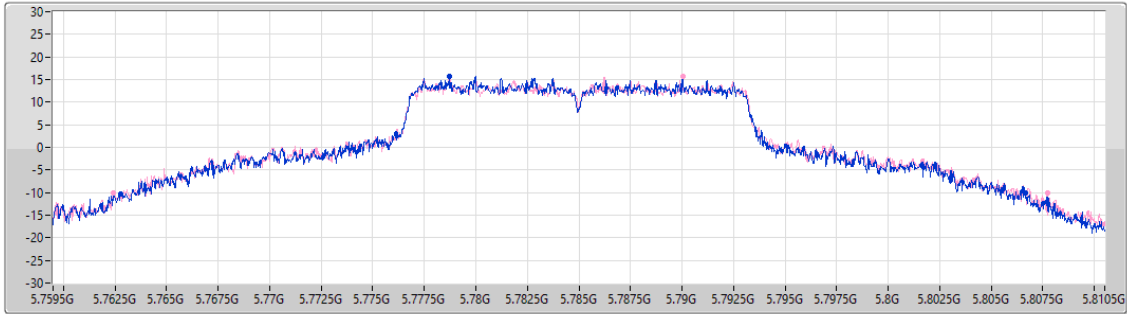
Span
51MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



Port 1 

Port 2 

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
43.886M	5.762764G	5.80665G	Inf	1
45.314M	5.762433G	5.807746G	Inf	2

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

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CF
5.825GHz

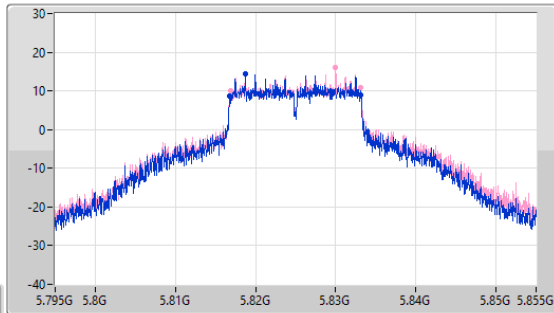
Span
60MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



Port 1 

Port 2 

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.81681G	5.83316G	30.967M	5.809708G	5.840675G	500k	1
16.26M	5.81687G	5.83313G	32.751M	5.808943G	5.841694G	500k	2

CF
5.825GHz

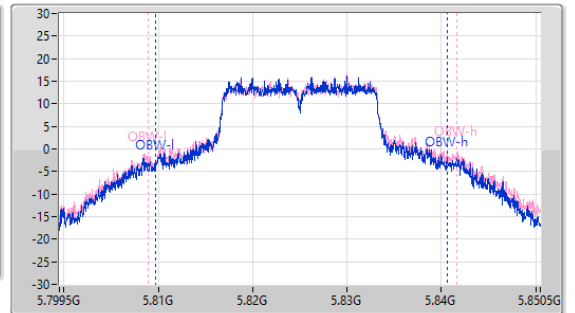
Span
51MHz

RBW
200kHz

VBW
1MHz

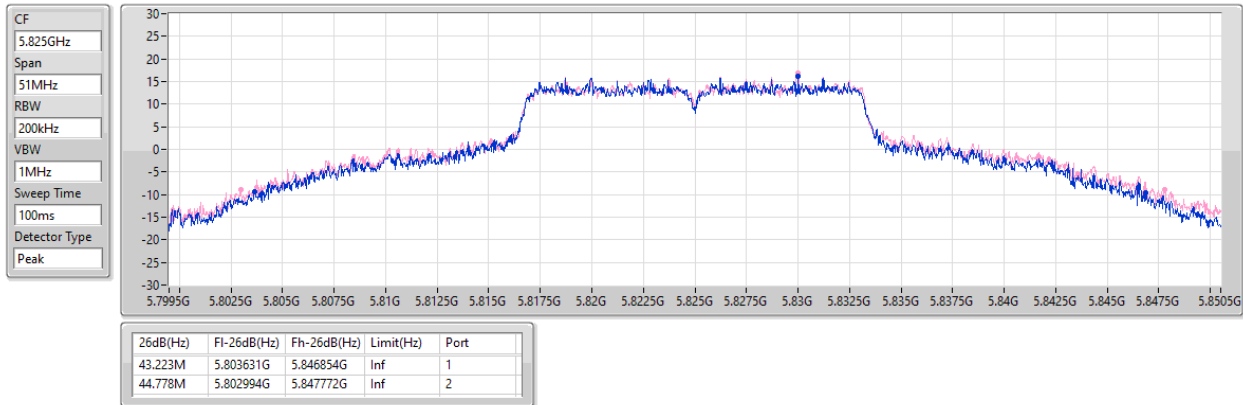
Sweep Time
100ms

Detector Type
Peak

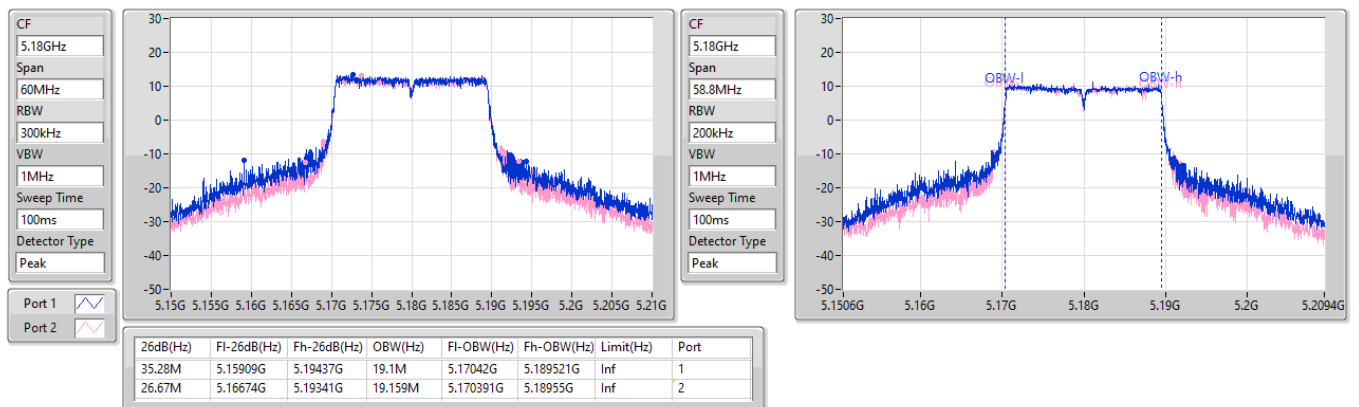


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

02/03/2023


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

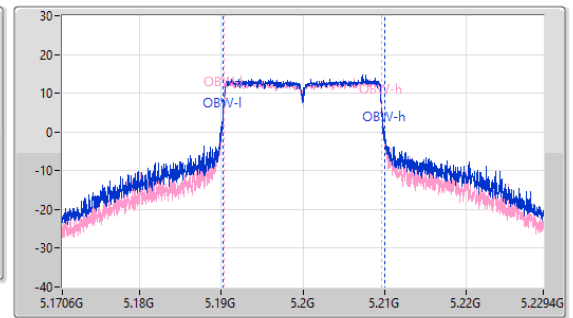
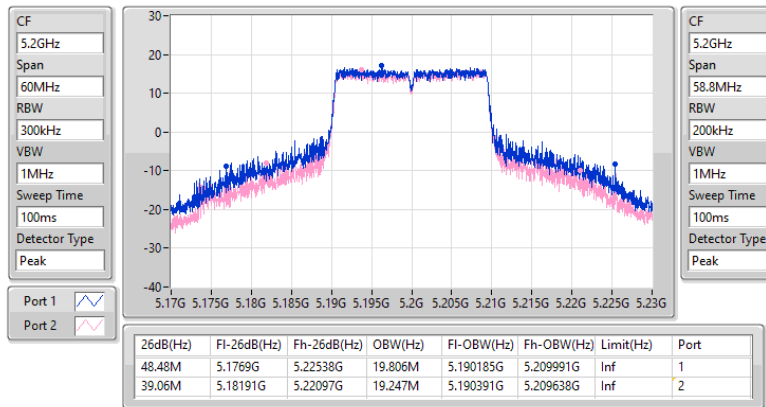
02/03/2023



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX 5200MHz

EBW

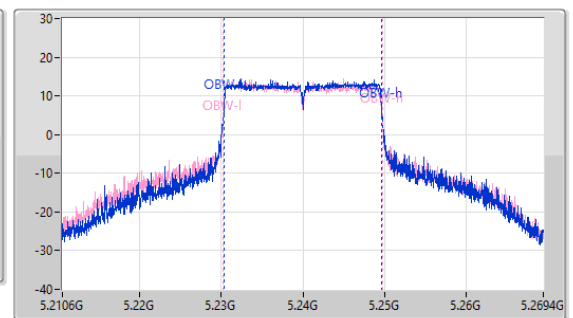
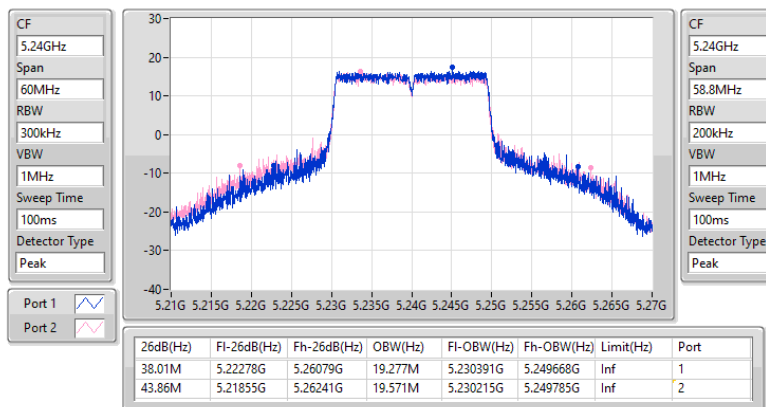
02/03/2023



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX 5240MHz

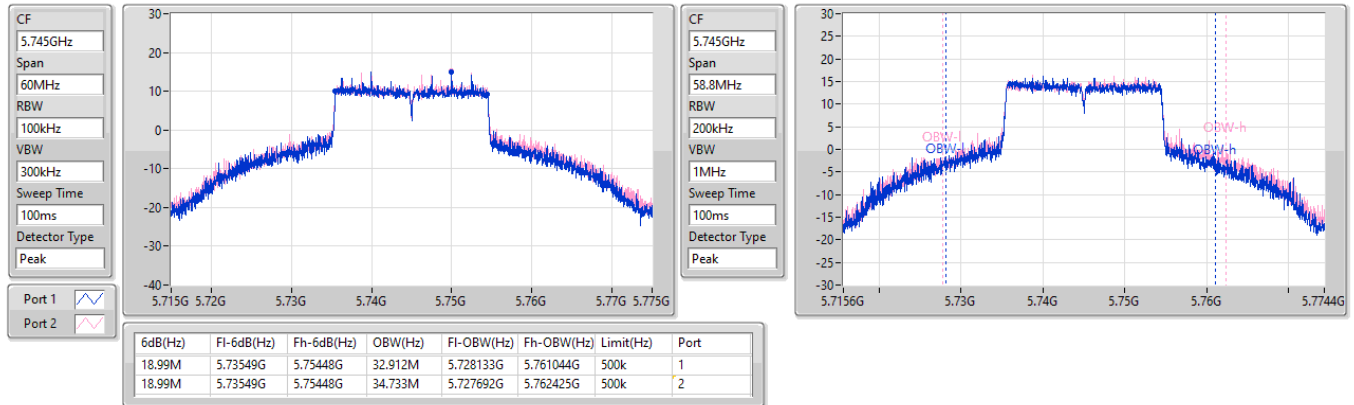
EBW

02/03/2023

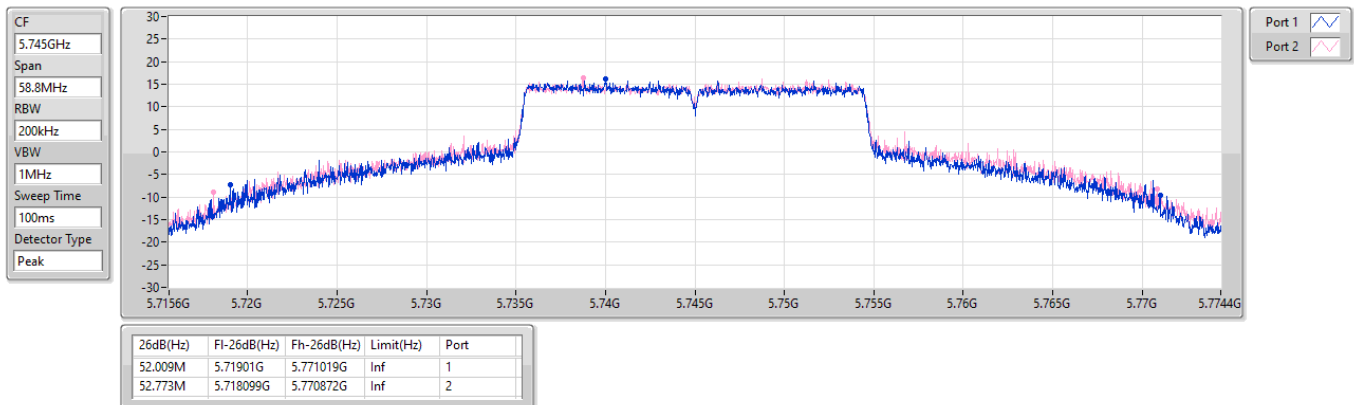


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

02/03/2023

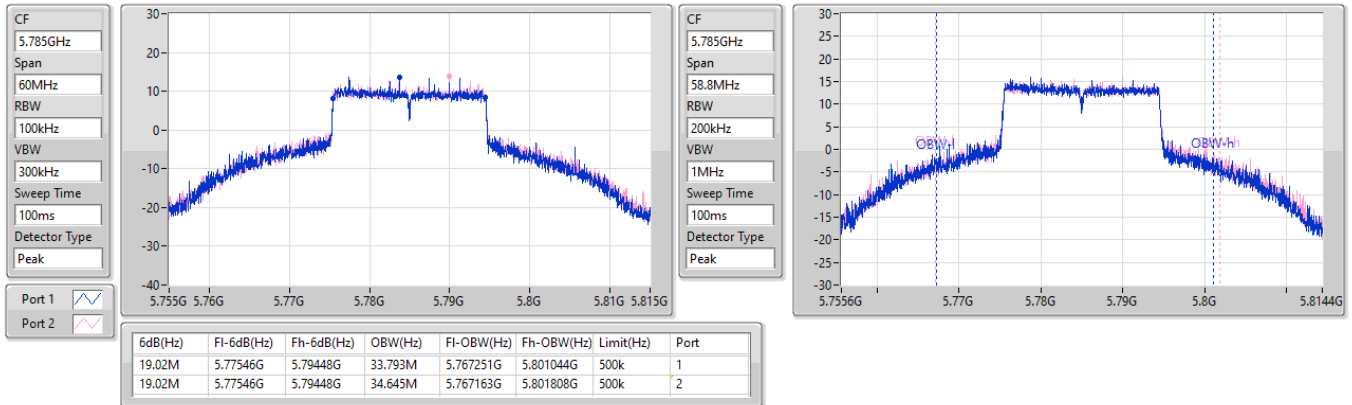

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

02/03/2023

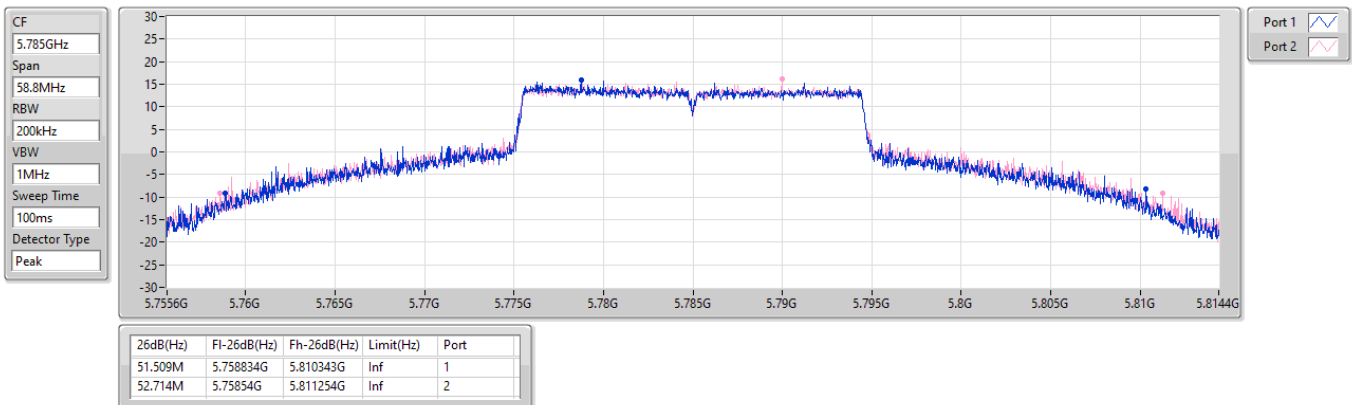


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

02/03/2023

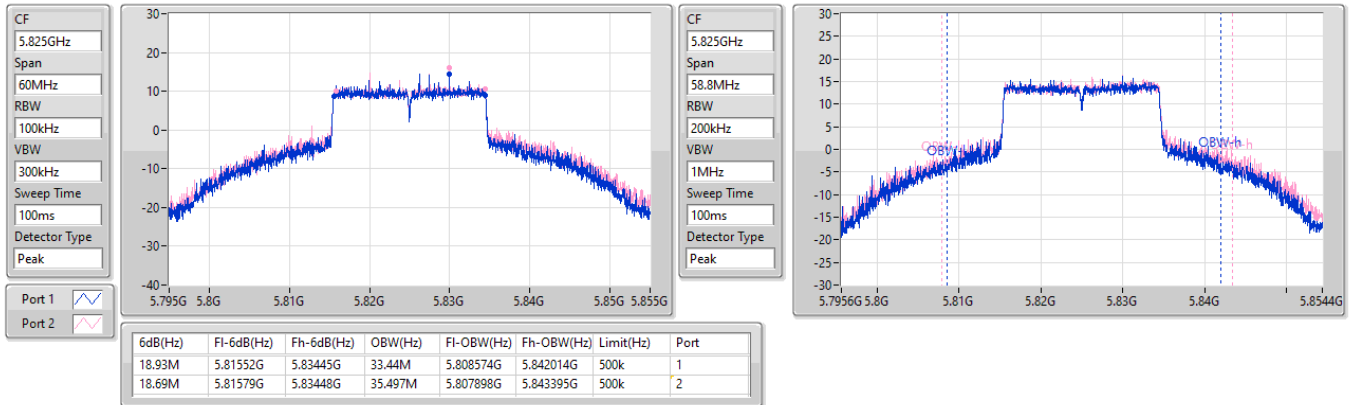

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

02/03/2023

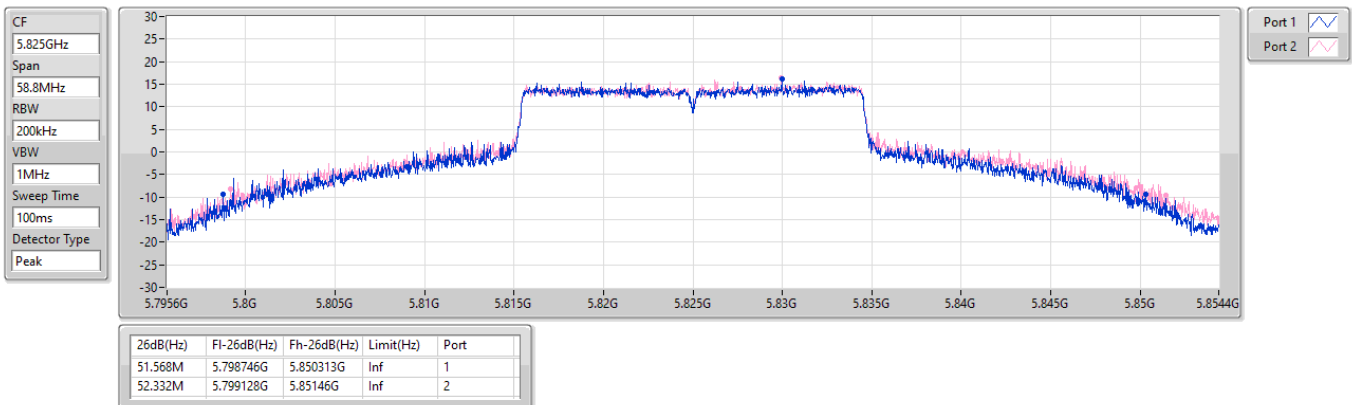


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

02/03/2023

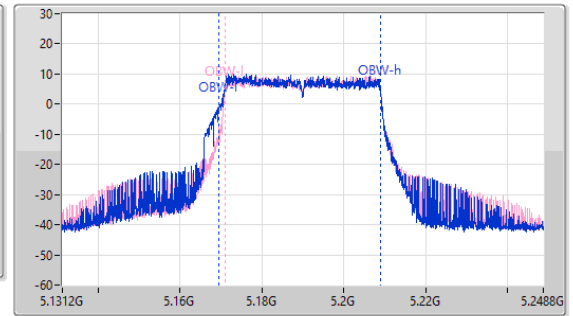
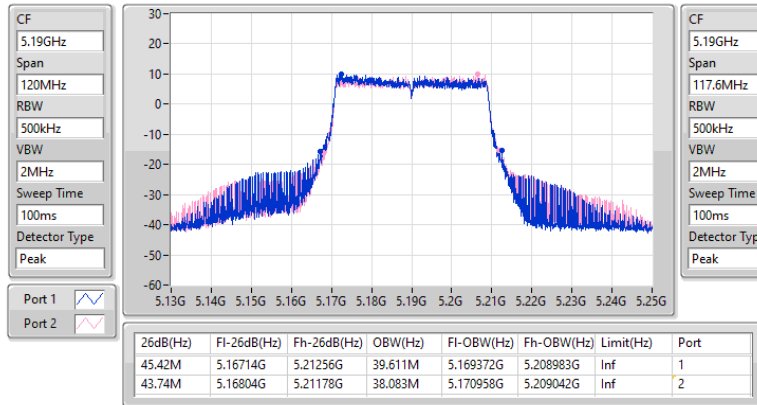

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

02/03/2023

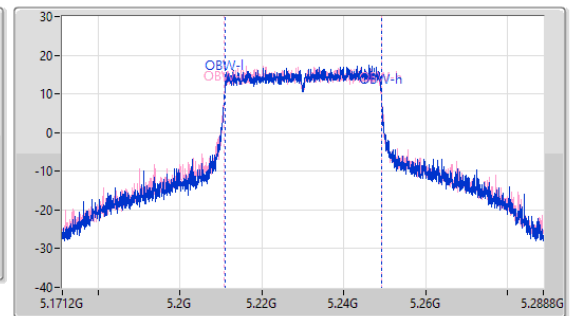
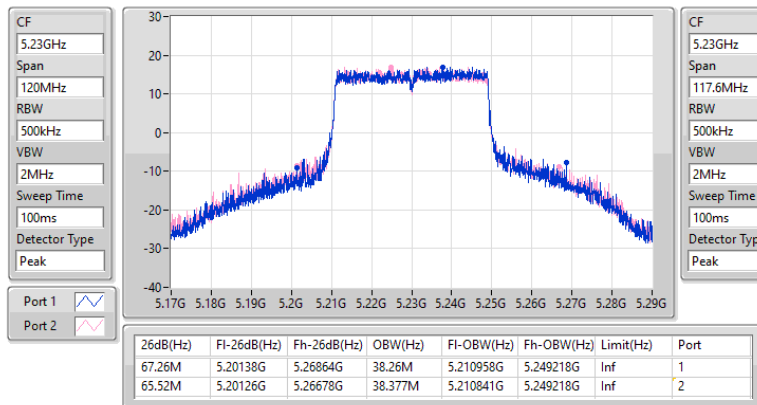


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

02/03/2023

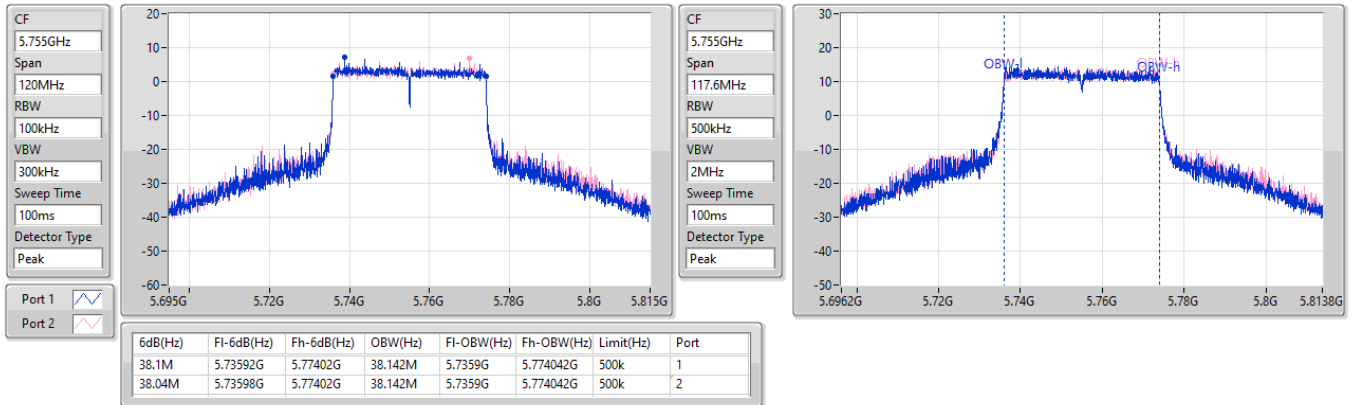

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

02/03/2023

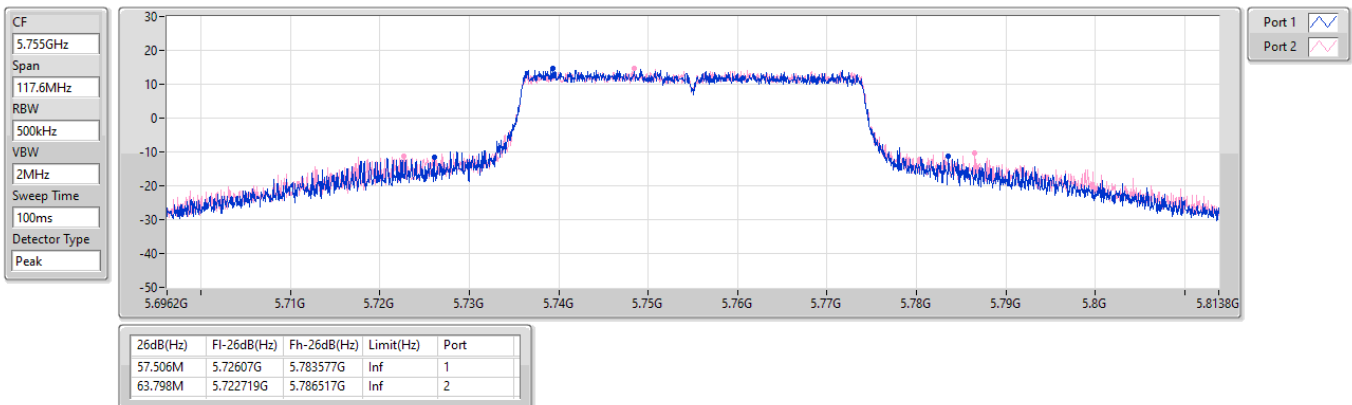


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

02/03/2023

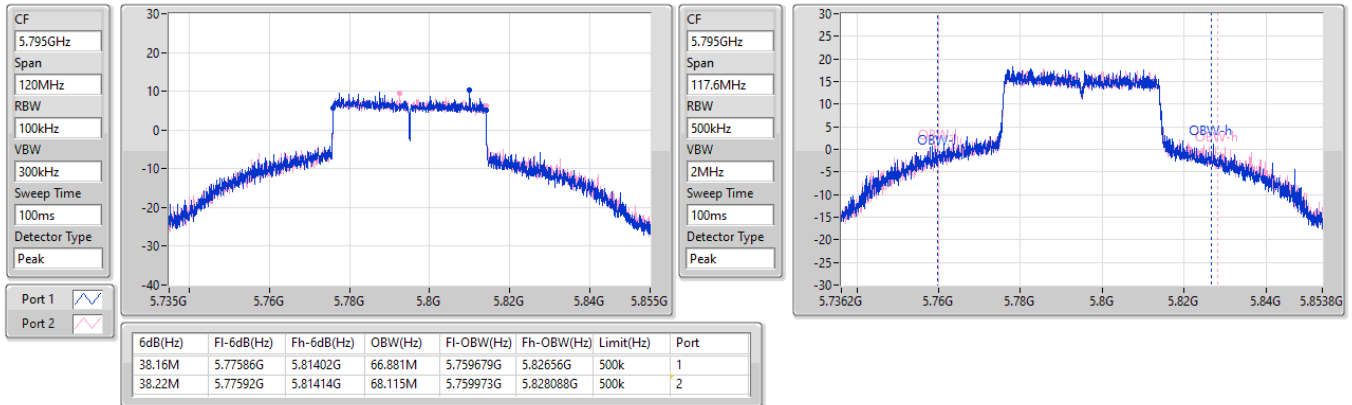

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

02/03/2023

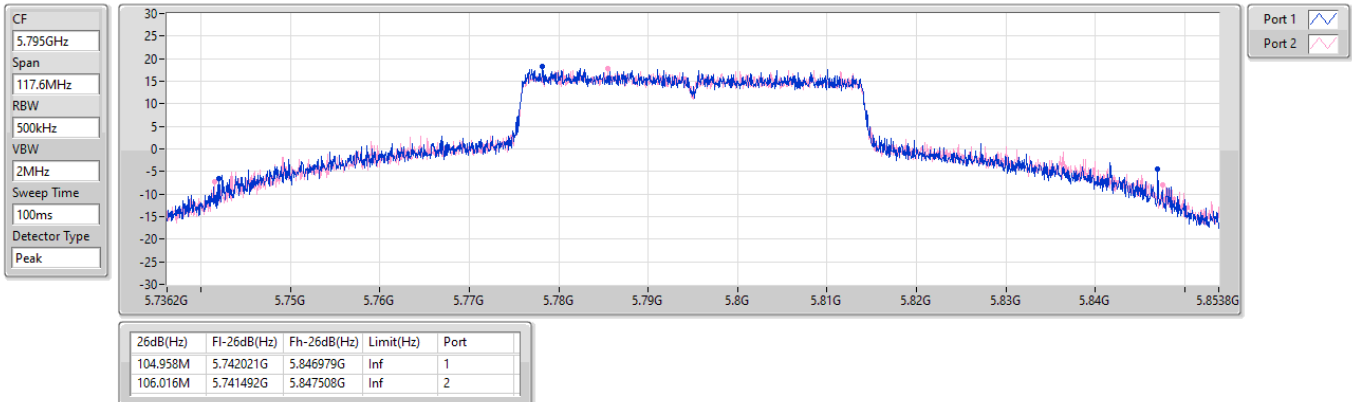


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

02/03/2023


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

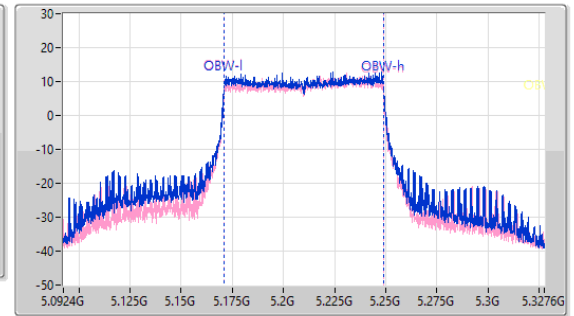
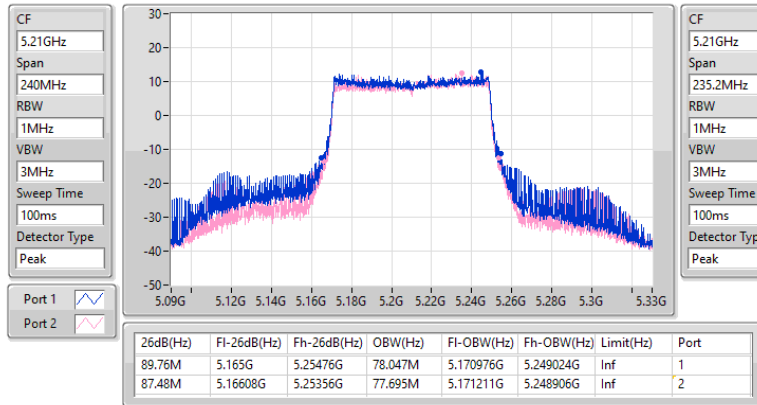
02/03/2023



5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX 5210MHz

EBW

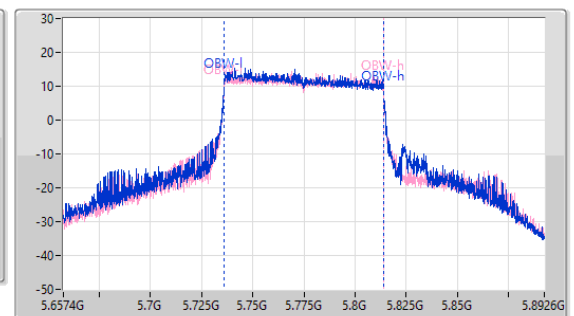
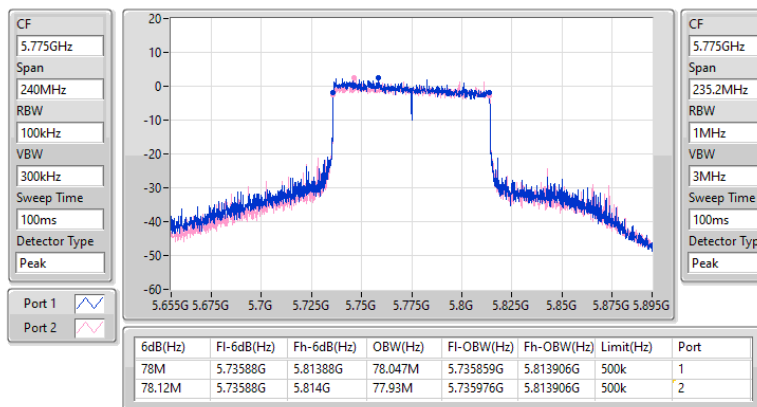
02/03/2023



5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX 5775MHz

EBW

02/03/2023

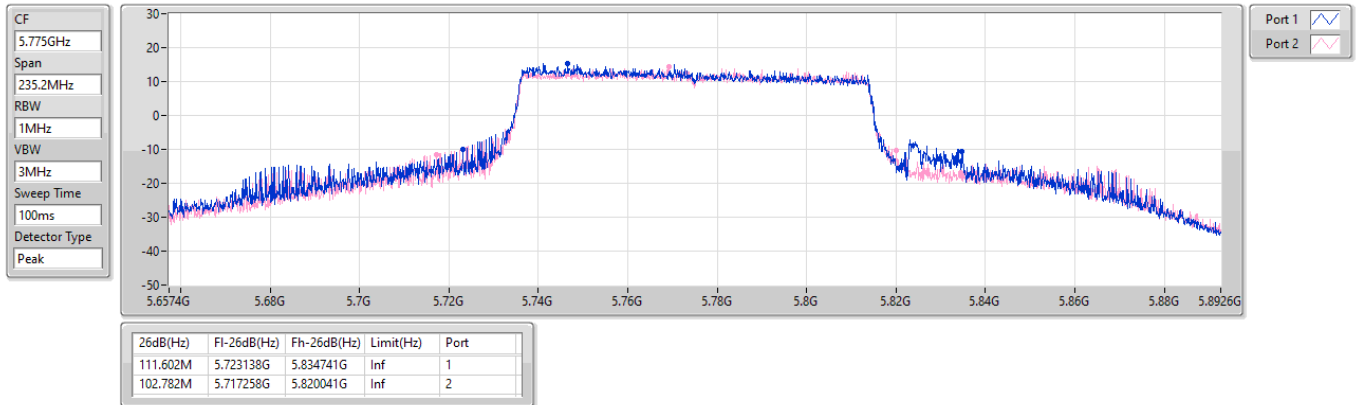


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

02/03/2023



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.60	0.45709
802.11be EHT20_Nss1,(MCS0)_2TX	27.26	0.53211
802.11be EHT20-BF_Nss1,(MCS0)_2TX	27.26	0.53211
802.11be EHT40_Nss1,(MCS0)_2TX	27.13	0.51642
802.11be EHT40-BF_Nss1,(MCS0)_2TX	27.13	0.51642
802.11be EHT80_Nss1,(MCS0)_2TX	21.79	0.15101
802.11be EHT80-BF_Nss1,(MCS0)_2TX	21.79	0.15101
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	28.91	0.77804
802.11be EHT20_Nss1,(MCS0)_2TX	28.86	0.76913
802.11be EHT20-BF_Nss1,(MCS0)_2TX	28.14	0.65163
802.11be EHT40_Nss1,(MCS0)_2TX	27.93	0.62087
802.11be EHT40-BF_Nss1,(MCS0)_2TX	27.93	0.62087
802.11be EHT80_Nss1,(MCS0)_2TX	24.02	0.25235
802.11be EHT80-BF_Nss1,(MCS0)_2TX	24.02	0.25235

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.92	21.15	21.07	24.12	30.00
5200MHz	Pass	4.92	23.75	23.12	26.46	30.00
5240MHz	Pass	4.92	24.06	23.06	26.60	30.00
5745MHz	Pass	4.75	25.83	25.97	28.91	30.00
5785MHz	Pass	4.75	25.02	25.18	28.11	30.00
5825MHz	Pass	4.75	25.24	25.46	28.36	30.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.92	21.24	21.07	24.17	30.00
5200MHz	Pass	4.92	24.49	23.99	27.26	30.00
5240MHz	Pass	4.92	24.28	23.95	27.13	30.00
5745MHz	Pass	4.75	25.72	25.98	28.86	30.00
5785MHz	Pass	4.75	25.24	25.35	28.31	30.00
5825MHz	Pass	4.75	25.31	25.57	28.45	30.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	4.92	16.94	16.89	19.93	30.00
5230MHz	Pass	4.92	24.11	24.12	27.13	30.00
5755MHz	Pass	4.75	21.69	21.65	24.68	30.00
5795MHz	Pass	4.75	24.88	24.95	27.93	30.00
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	4.92	19.17	18.34	21.79	30.00
5775MHz	Pass	4.75	21.24	20.77	24.02	30.00
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	7.86	21.24	21.07	24.17	28.14
5200MHz	Pass	7.86	24.49	23.99	27.26	28.14
5240MHz	Pass	7.86	24.28	23.95	27.13	28.14
5745MHz	Pass	7.69	25.01	25.11	28.07	28.31
5785MHz	Pass	7.69	24.84	24.97	27.92	28.31
5825MHz	Pass	7.69	24.93	25.32	28.14	28.31
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	7.86	16.94	16.89	19.93	28.14
5230MHz	Pass	7.86	24.11	24.12	27.13	28.14
5755MHz	Pass	7.69	21.69	21.65	24.68	28.31
5795MHz	Pass	7.69	24.88	24.95	27.93	28.31
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	7.86	19.17	18.34	21.79	28.14
5775MHz	Pass	7.69	21.24	20.77	24.02	28.31

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	14.34	22.20
802.11be EHT20_Nss1,(MCS0)_2TX	14.02	21.88
802.11be EHT40_Nss1,(MCS0)_2TX	10.89	18.75
802.11be EHT80_Nss1,(MCS0)_2TX	2.82	10.68
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	14.69	22.38
802.11be EHT20_Nss1,(MCS0)_2TX	14.02	21.71
802.11be EHT40_Nss1,(MCS0)_2TX	10.38	18.07
802.11be EHT80_Nss1,(MCS0)_2TX	3.75	11.44

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	7.86	8.78	8.45	11.59	15.14
5200MHz	Pass	7.86	11.07	10.68	13.85	15.14
5240MHz	Pass	7.86	11.64	11.41	14.34	15.14
5745MHz	Pass	7.69	11.81	11.72	14.69	28.31
5785MHz	Pass	7.69	11.12	11.01	14.04	28.31
5825MHz	Pass	7.69	11.00	11.42	14.12	28.31
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	7.86	8.20	7.85	11.01	15.14
5200MHz	Pass	7.86	11.20	11.02	14.02	15.14
5240MHz	Pass	7.86	11.17	10.94	13.87	15.14
5745MHz	Pass	7.69	11.02	11.21	14.02	28.31
5785MHz	Pass	7.69	10.43	10.36	13.33	28.31
5825MHz	Pass	7.69	10.51	10.69	13.61	28.31
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	7.86	1.39	0.64	3.94	15.14
5230MHz	Pass	7.86	8.18	7.91	10.89	15.14
5755MHz	Pass	7.69	4.20	3.86	6.94	28.31
5795MHz	Pass	7.69	7.51	7.39	10.38	28.31
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	7.86	0.23	-0.33	2.82	15.14
5775MHz	Pass	7.69	1.37	0.25	3.75	28.31

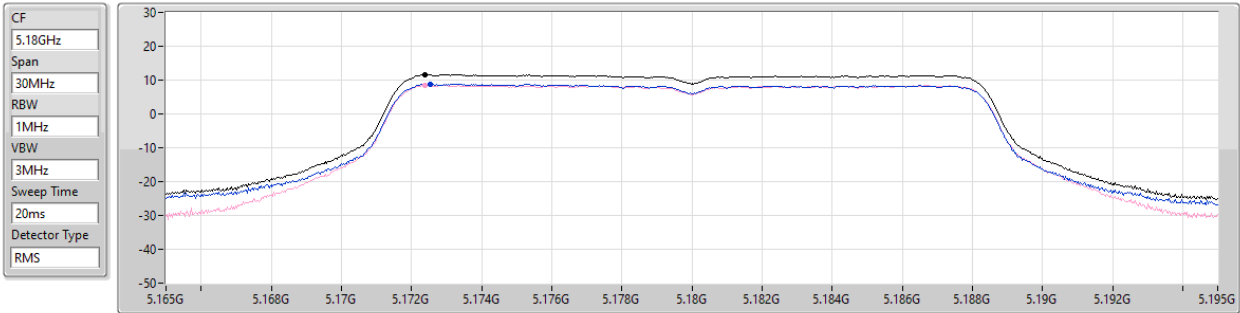
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz

PSD

02/03/2023



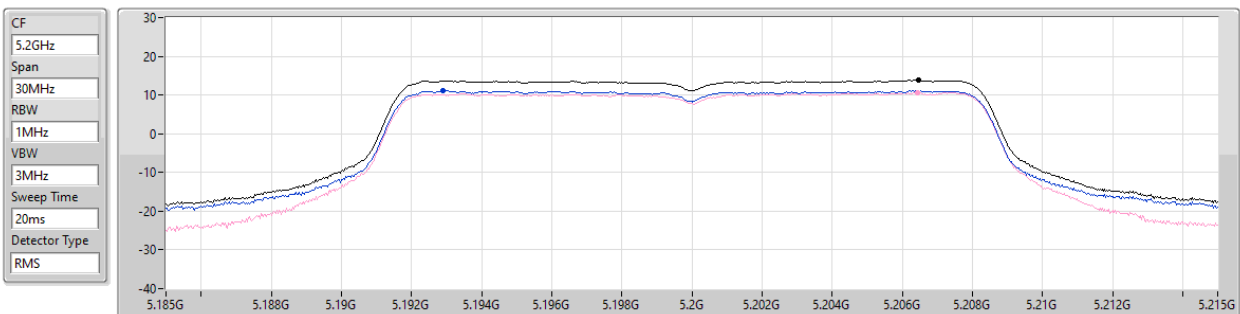
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.59	11.59	8.78	8.45

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz

PSD

02/03/2023



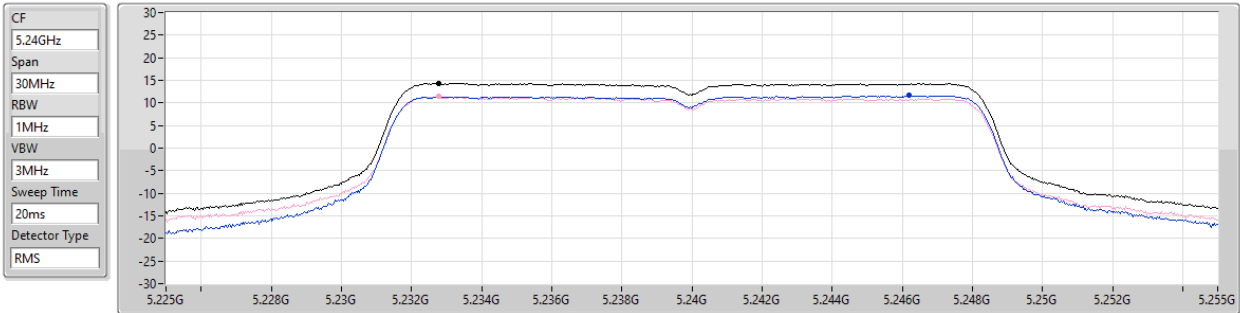
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.85	13.85	11.07	10.68

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz

PSD

02/03/2023



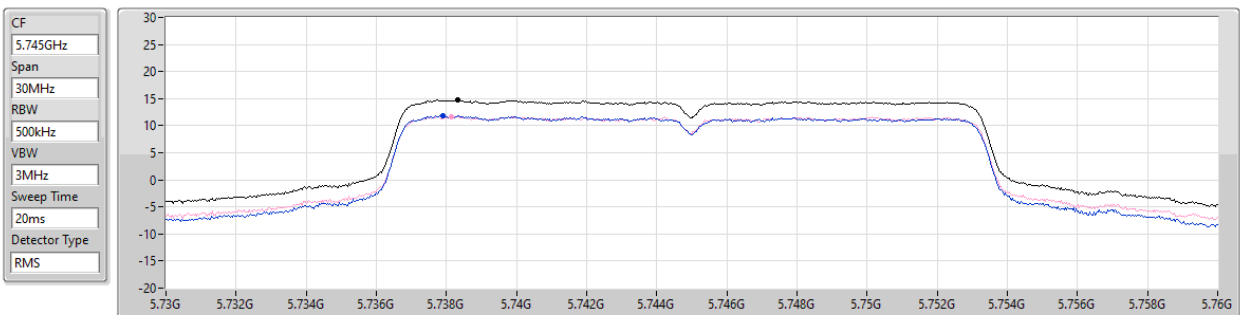
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
14.34	14.34	11.64	11.41

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5745MHz

PSD

02/03/2023



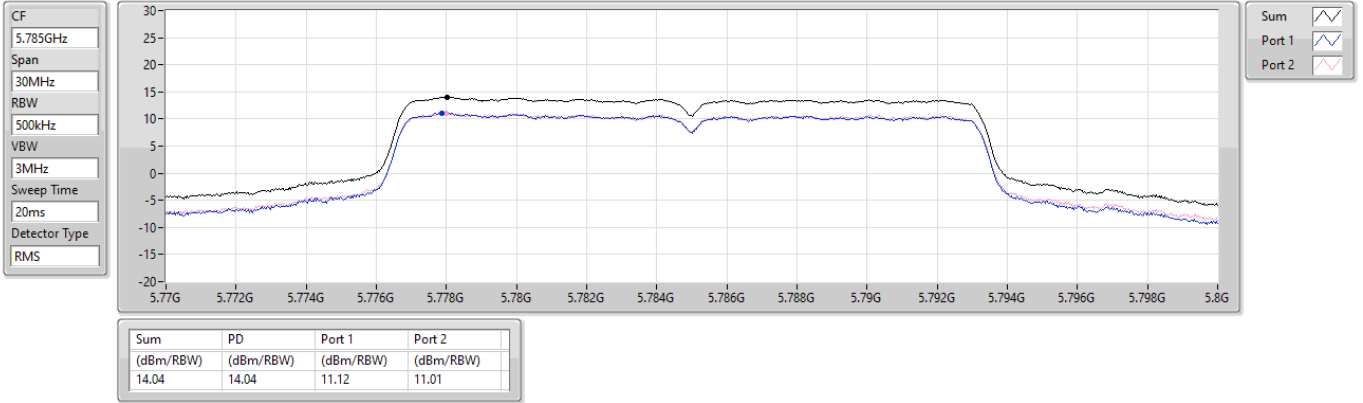
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
14.69	14.69	11.81	11.72

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz

PSD

02/03/2023

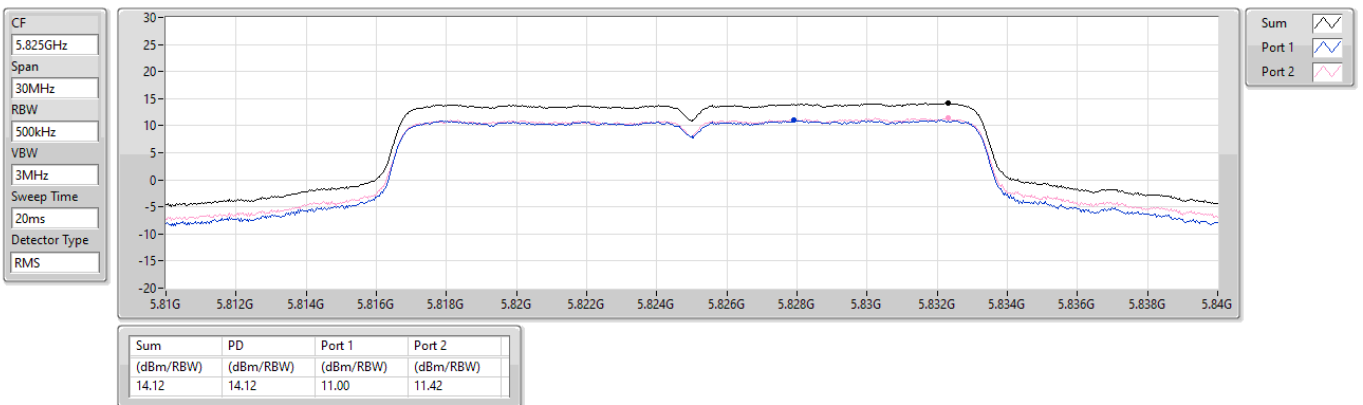


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz

PSD

02/03/2023

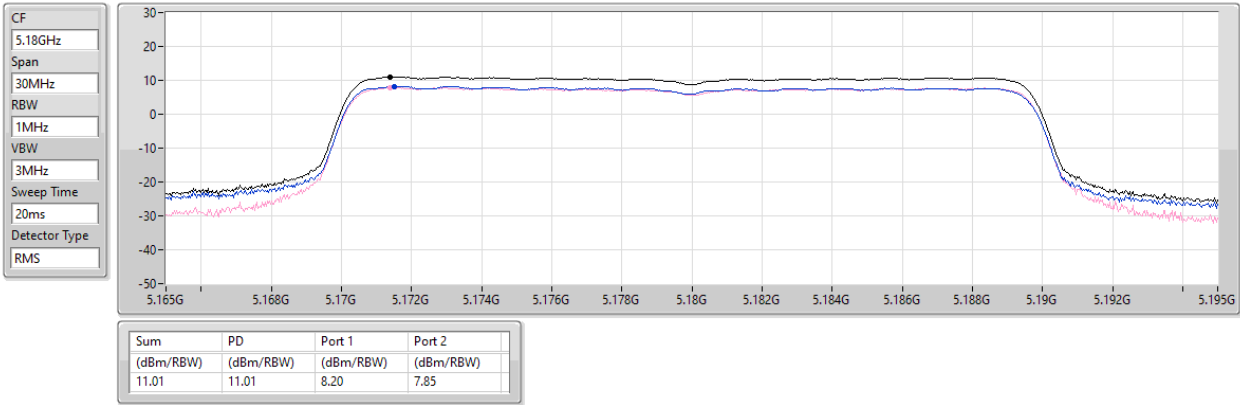


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5180MHz

PSD

02/03/2023

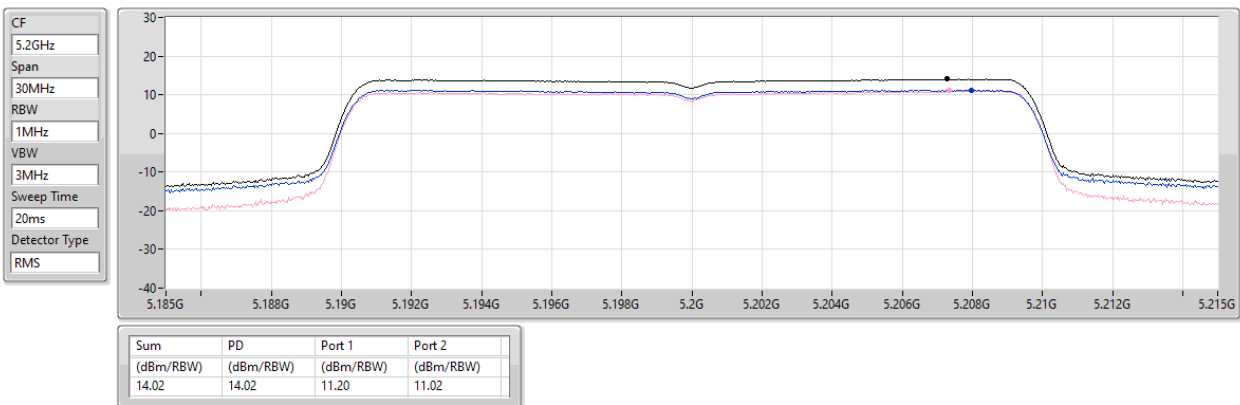


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5200MHz

PSD

02/03/2023

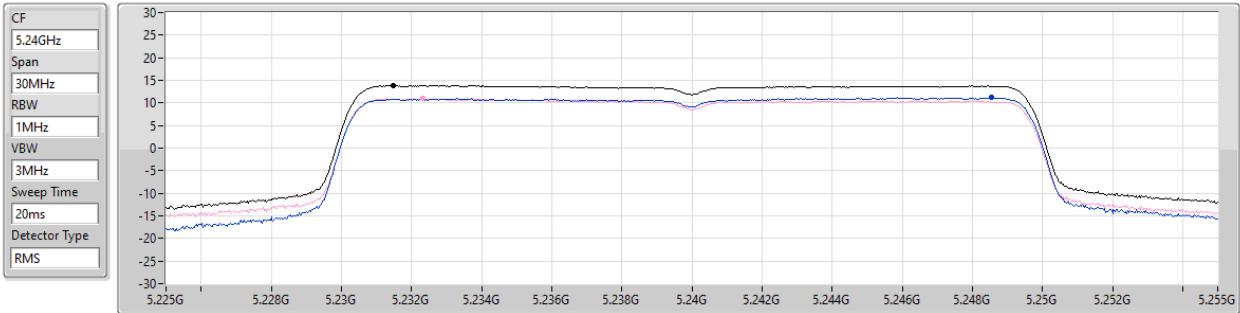


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5240MHz

PSD

02/03/2023



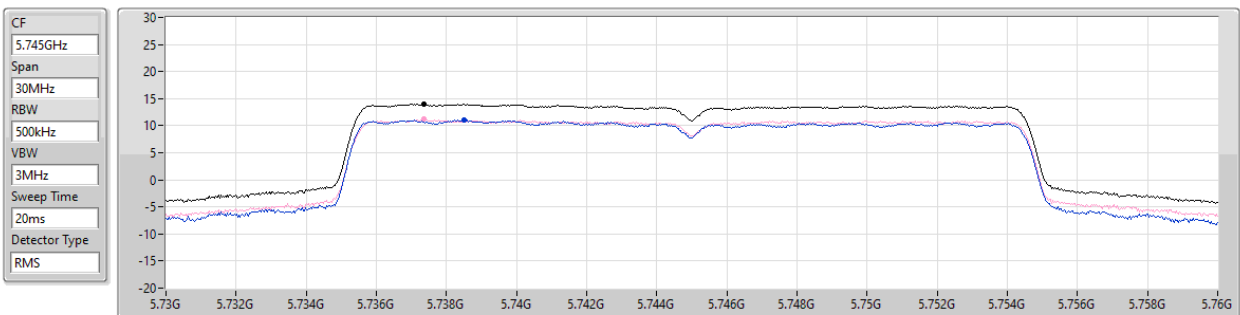
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.87	13.87	11.17	10.94

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5745MHz

PSD

02/03/2023



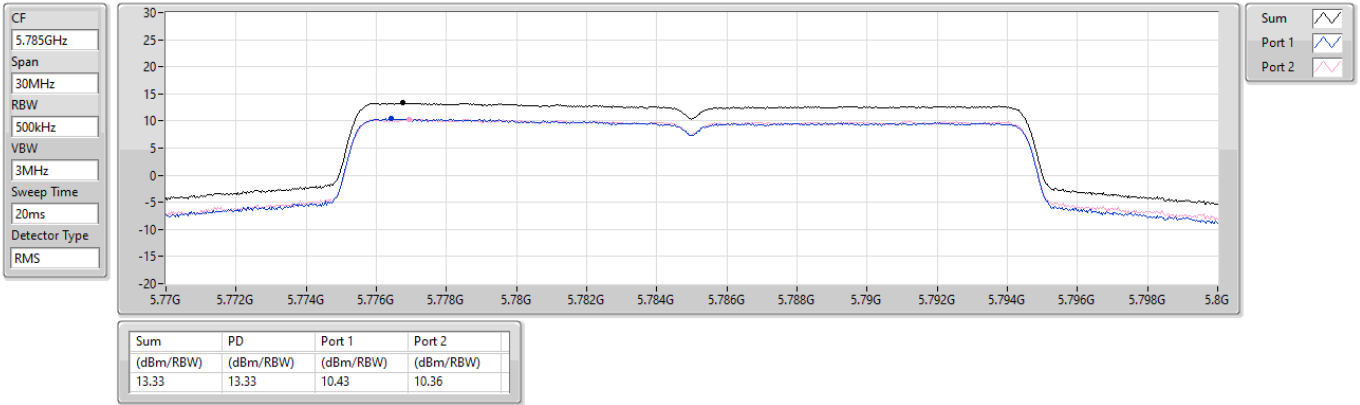
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
14.02	14.02	11.02	11.21

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5785MHz

PSD

02/03/2023

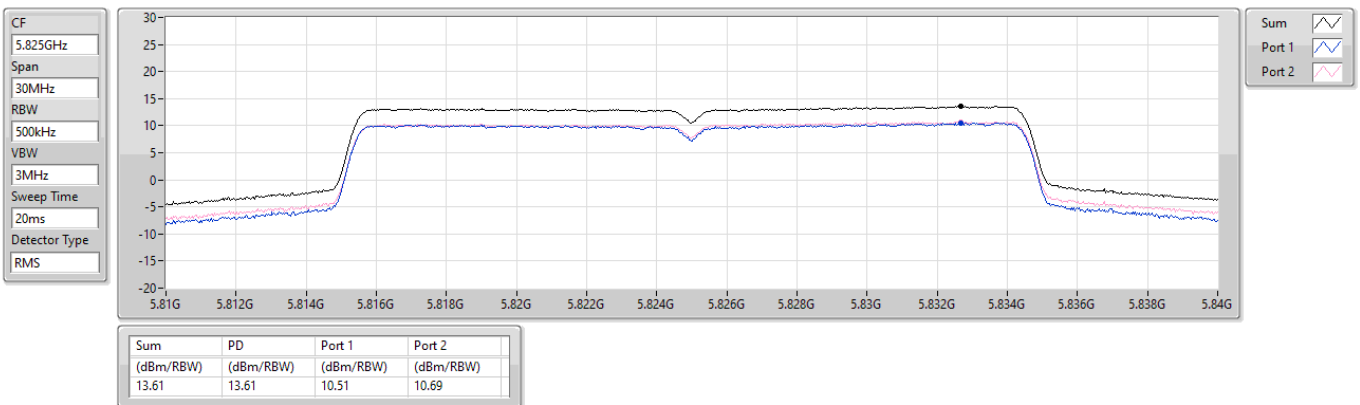


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5825MHz

PSD

02/03/2023

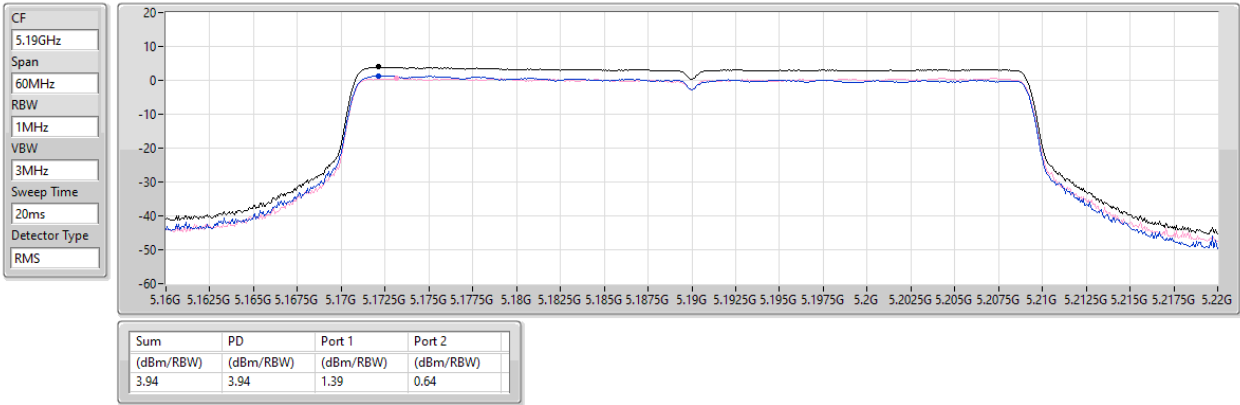


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5190MHz

PSD

02/03/2023

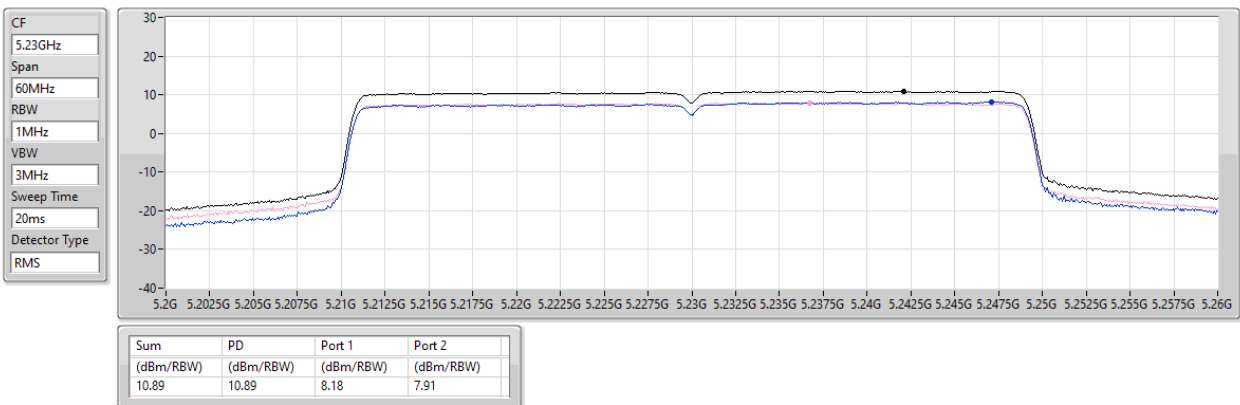


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5230MHz

PSD

02/03/2023

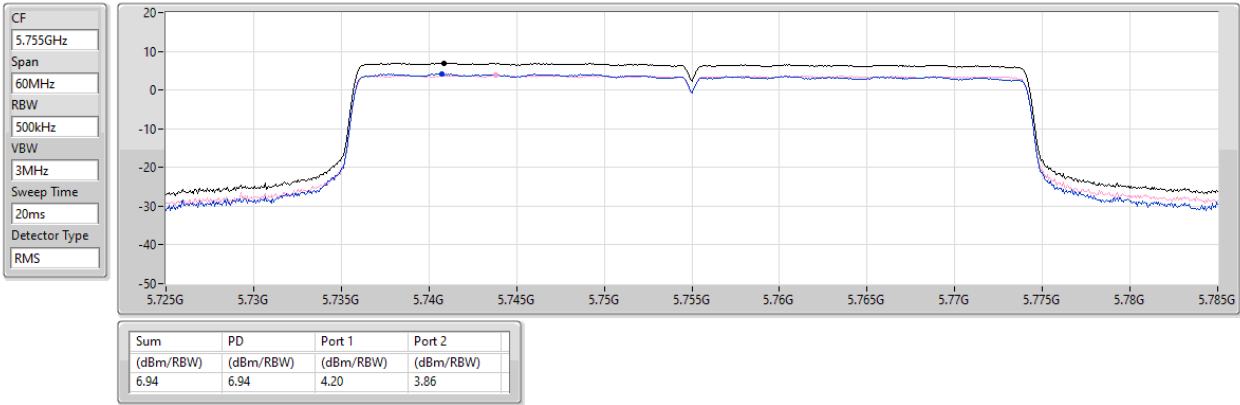


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5755MHz

PSD

02/03/2023

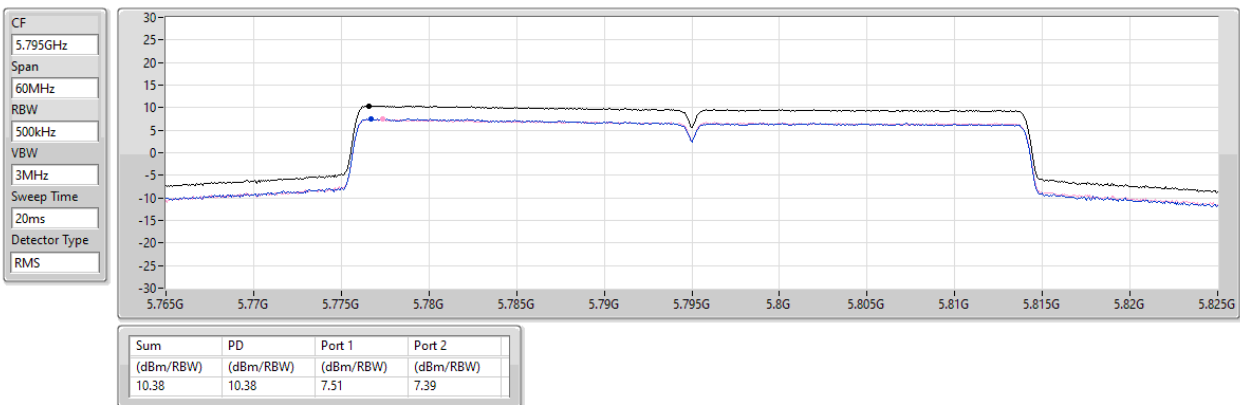


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5795MHz

PSD

02/03/2023

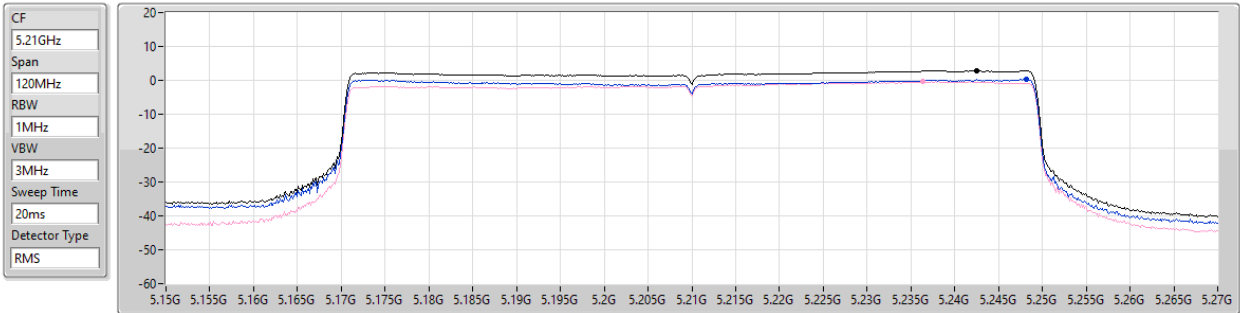


5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5210MHz

PSD

02/03/2023



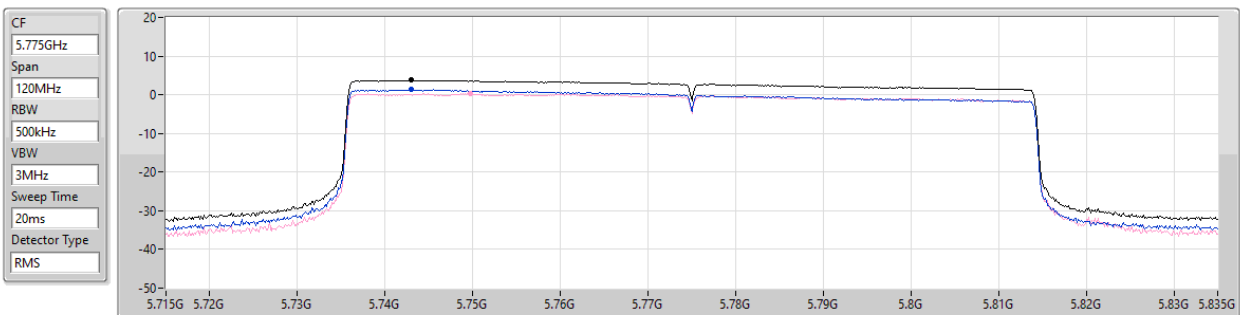
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.82	2.82	0.23	-0.33

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5775MHz

PSD

02/03/2023



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.75	3.75	1.37	0.25



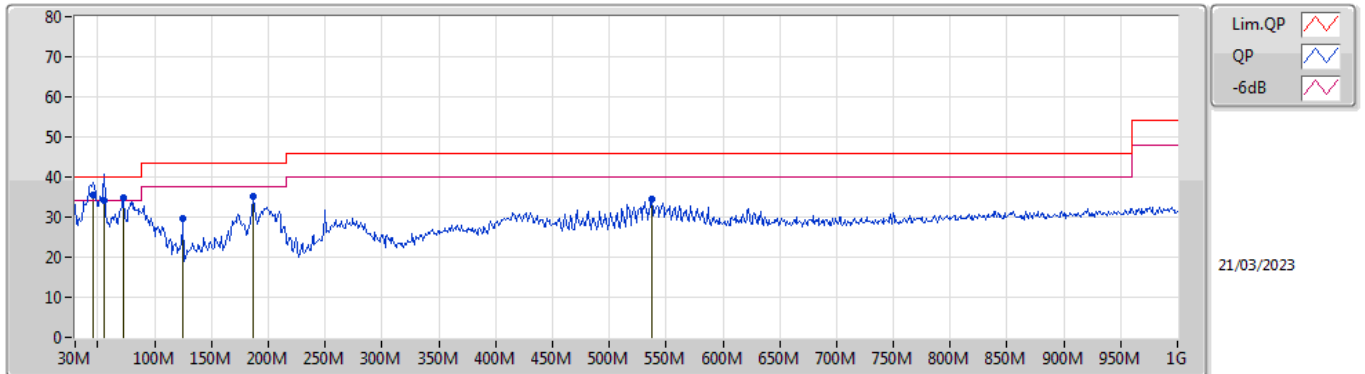
Radiated Emissions below 1GHz

Appendix E.1

Summary

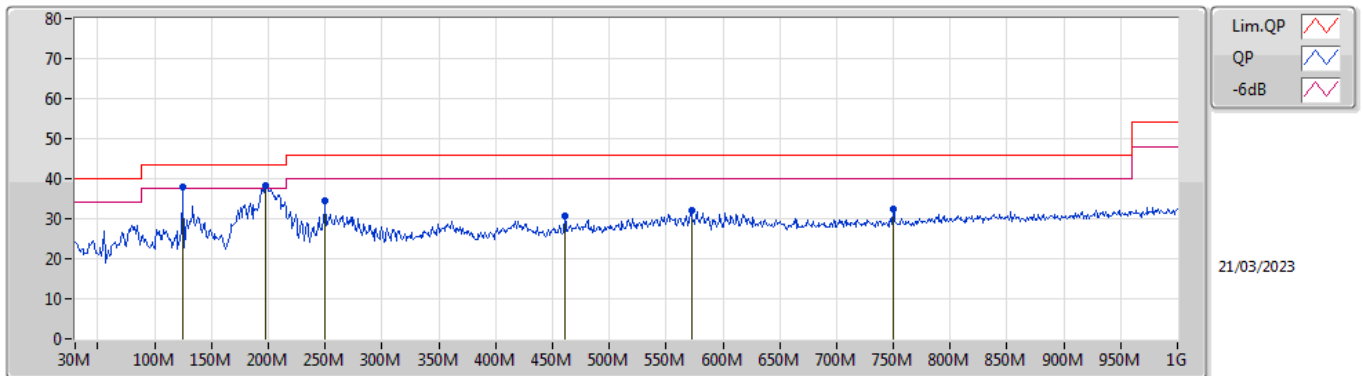
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	45.52M	35.67	40.00	-4.33	Vertical

Mode 3



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	45.52M	35.67	40.00	-4.33	-14.83	3	Vertical	355	1.00	"Worst"	50.50	15.78	1.22	31.83
QP	55.22M	34.21	40.00	-5.79	-17.89	3	Vertical	17	1.25	-	52.10	12.69	1.31	31.89
PK	72.68M	34.84	40.00	-5.16	-18.32	3	Vertical	174	1.25	-	53.16	12.17	1.48	31.97
PK	125.06M	29.51	43.50	-13.99	-12.19	3	Vertical	230	1.00	-	41.70	17.89	1.90	31.98
PK	186.17M	35.33	43.50	-8.17	-14.80	3	Vertical	212	1.00	-	50.13	14.88	2.33	32.01
PK	537.31M	34.62	46.00	-11.38	-4.47	3	Vertical	155	1.00	-	39.09	23.77	4.15	32.39

Mode 3



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	125.06M	37.92	43.50	-5.58	-12.19	3	Horizontal	76	3.00	-	50.11	17.89	1.90	31.98
PK	197.81M	38.16	43.50	-5.34	-14.62	3	Horizontal	268	1.50	"Worst"	52.78	14.99	2.41	32.02
PK	250.19M	34.54	46.00	-11.46	-11.06	3	Horizontal	137	1.00	-	45.60	18.22	2.72	32.00
PK	460.68M	30.69	46.00	-15.31	-5.71	3	Horizontal	240	1.50	-	36.40	22.76	3.82	32.29
PK	572.23M	32.23	46.00	-13.77	-3.86	3	Horizontal	239	1.50	-	36.09	24.28	4.30	32.44
PK	749.74M	32.35	46.00	-13.65	-2.34	3	Horizontal	139	1.25	-	34.69	25.26	5.01	32.61

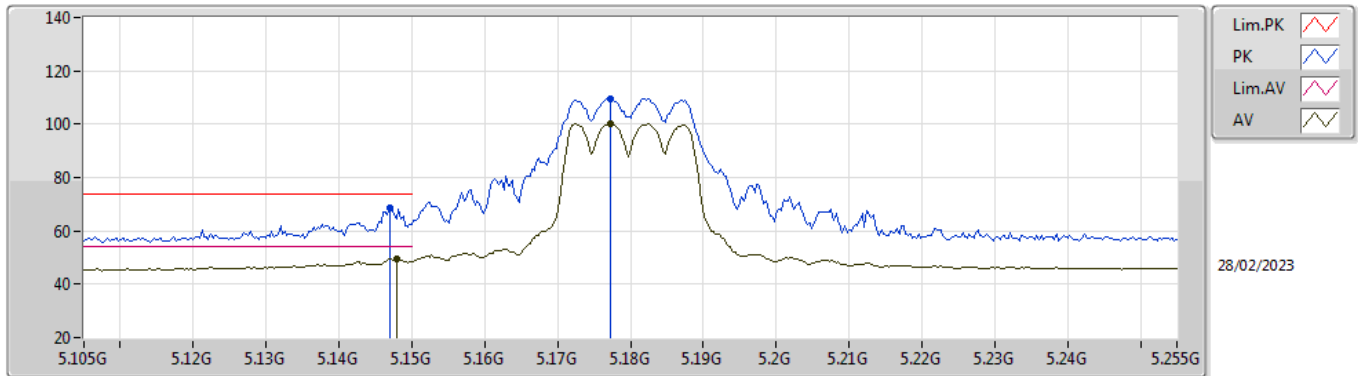


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	AV	11.57G	53.97	54.00	-0.03	3	Horizontal	40	1.80	-

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

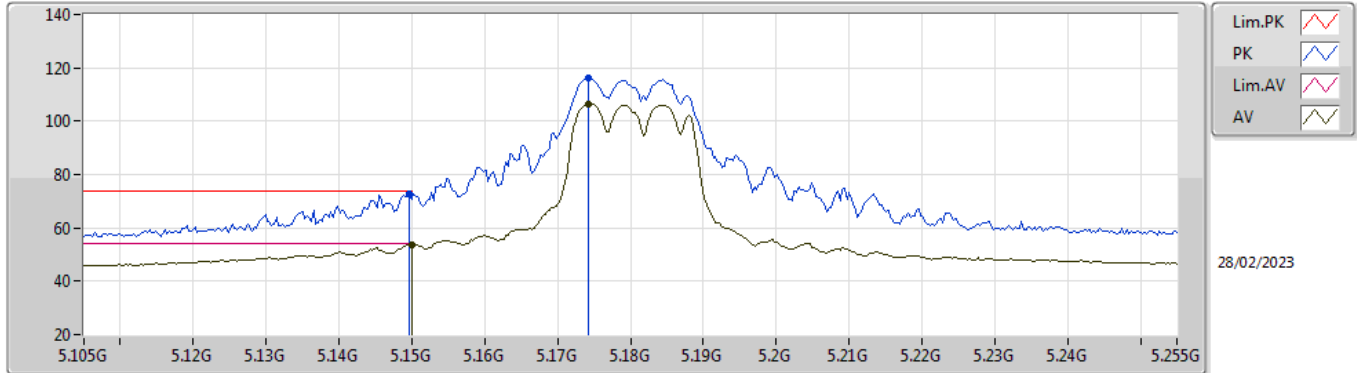


EUT_Z_2TX
Setting 22
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.147G	68.39	74.00	-5.61	62.11	3	Vertical	93	1.57	-	33.10	5.97	32.79
AV	5.1479G	49.36	54.00	-4.64	43.08	3	Vertical	93	1.57	-	33.10	5.97	32.79
PK	5.1773G	109.68	Inf	-Inf	103.32	3	Vertical	93	1.57	-	33.15	5.99	32.78
AV	5.1773G	100.21	Inf	-Inf	93.85	3	Vertical	93	1.57	-	33.15	5.99	32.78

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

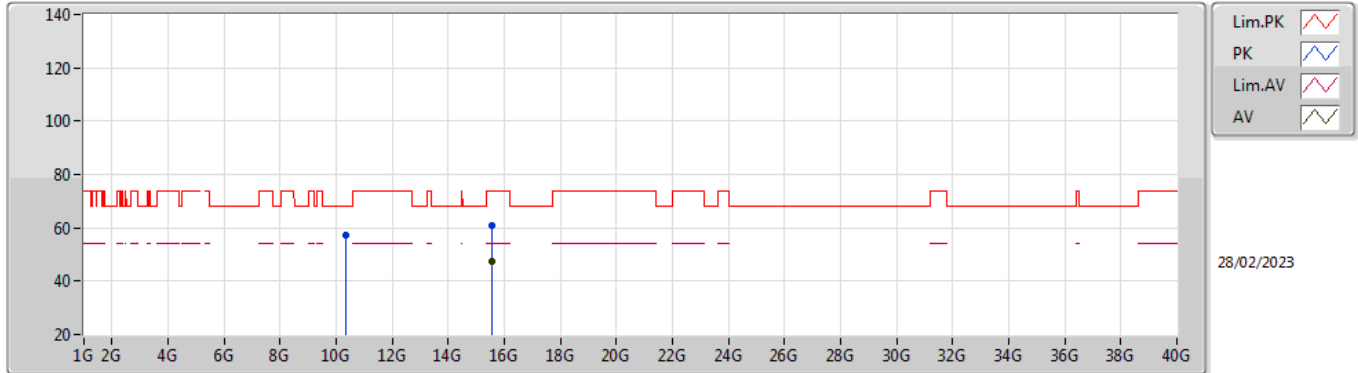


EUT_Z_2TX
Setting 22
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1497G	72.56	74.00	-1.44	66.28	3	Horizontal	350	2.49	-	33.10	5.97	32.79
AV	5.15G	53.71	54.00	-0.29	47.43	3	Horizontal	350	2.49	-	33.10	5.97	32.79
PK	5.1743G	115.98	Inf	-Inf	109.62	3	Horizontal	350	2.49	-	33.15	5.99	32.78
AV	5.1743G	106.62	Inf	-Inf	100.26	3	Horizontal	350	2.49	-	33.15	5.99	32.78

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

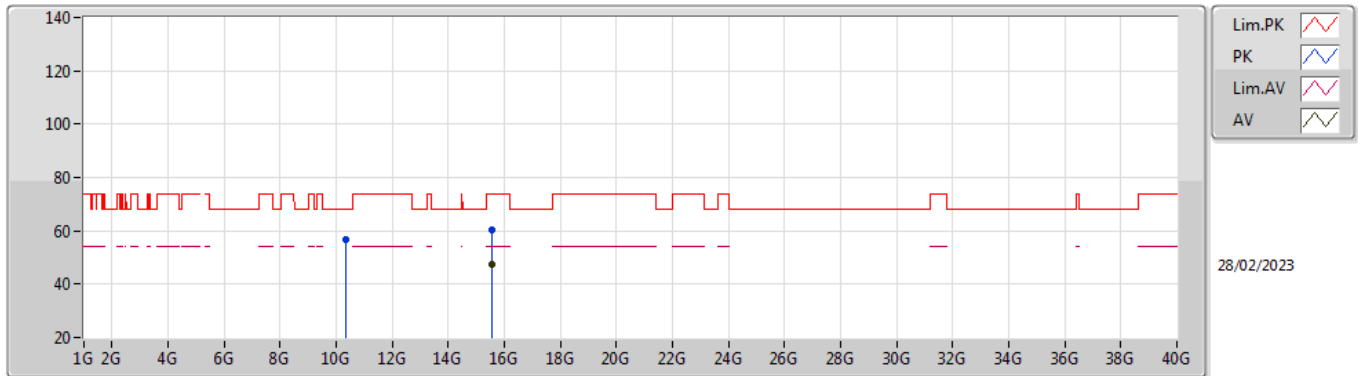


EUT Z_2TX
Setting 22
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.36G	57.47	68.20	-10.73	42.10	3	Vertical	356	2.14	-	38.72	8.44	31.79
PK	15.54524G	60.88	74.00	-13.12	42.57	3	Vertical	222	2.16	-	38.51	10.52	30.72
AV	15.53492G	47.28	54.00	-6.72	28.96	3	Vertical	222	2.16	-	38.53	10.51	30.72

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

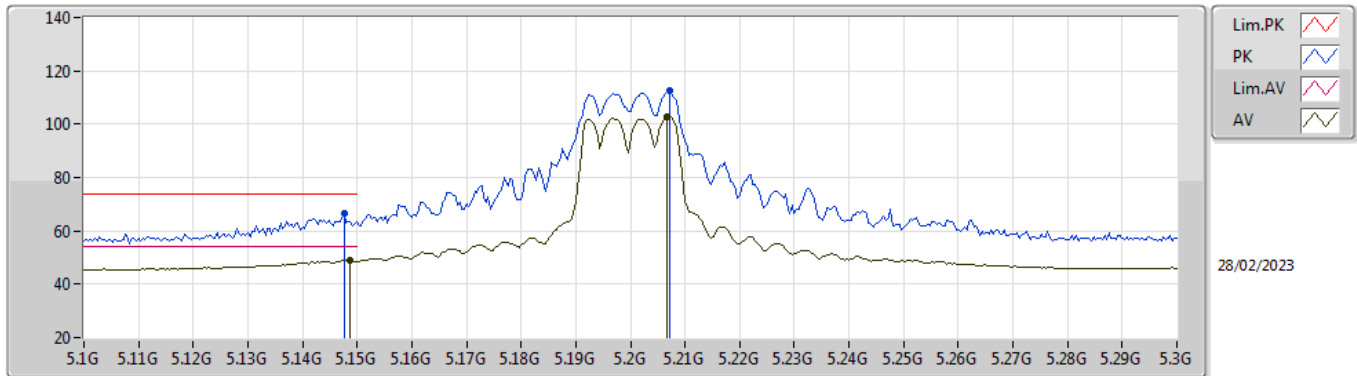


EUT Z_2TX
Setting 22
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.36372G	56.93	68.20	-11.27	41.54	3	Horizontal	164	2.88	-	38.73	8.45	31.79
PK	15.54828G	60.48	74.00	-13.52	42.18	3	Horizontal	329	2.42	-	38.50	10.52	30.72
AV	15.5458G	47.35	54.00	-6.65	29.04	3	Horizontal	329	2.42	-	38.51	10.52	30.72

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

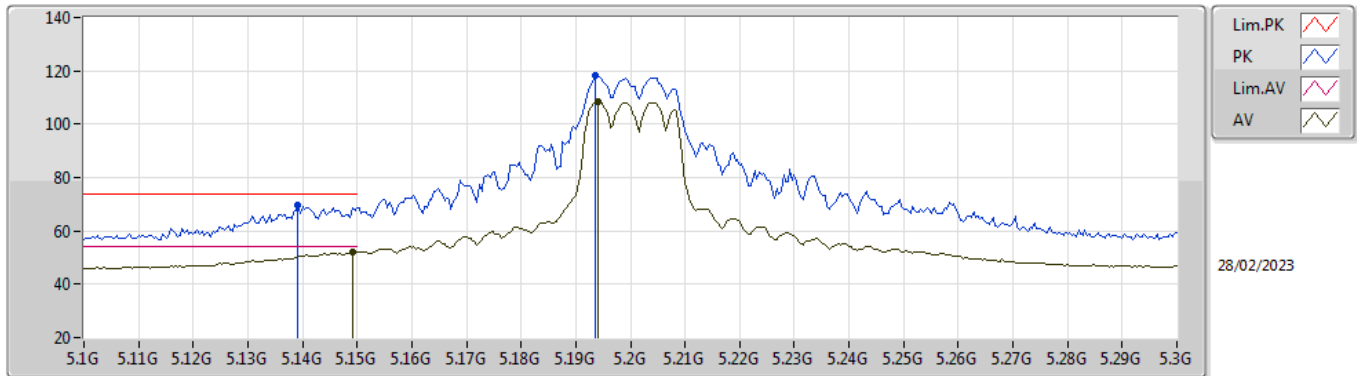


EUT_Z_2TX
Setting 24.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1476G	66.65	74.00	-7.35	60.37	3	Vertical	92	1.54	-	33.10	5.97	32.79
AV	5.1488G	48.84	54.00	-5.16	42.56	3	Vertical	92	1.54	-	33.10	5.97	32.79
PK	5.2072G	112.75	Inf	-Inf	106.30	3	Vertical	92	1.54	-	33.21	6.00	32.76
AV	5.2068G	102.58	Inf	-Inf	96.13	3	Vertical	92	1.54	-	33.21	6.00	32.76

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

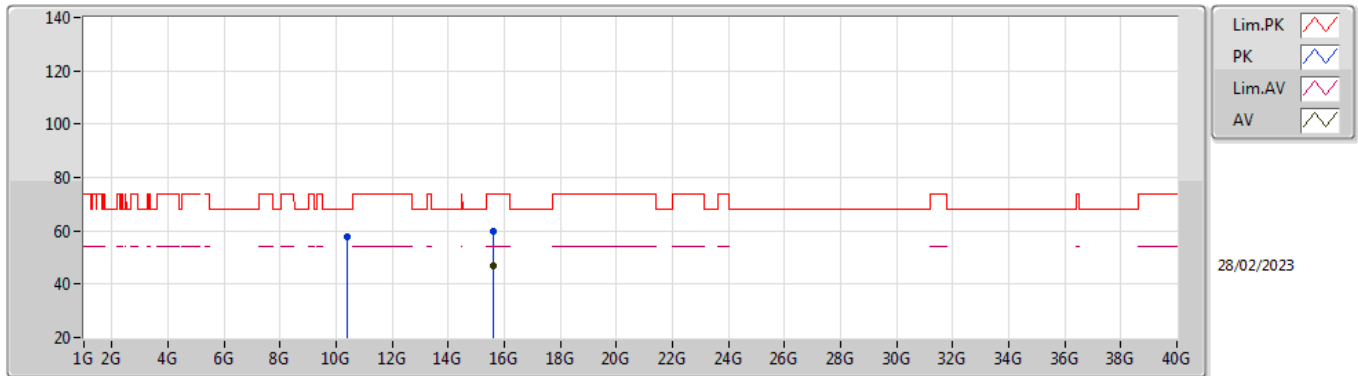


EUT_Z_2TX
Setting 24.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1392G	69.55	74.00	-4.45	63.27	3	Horizontal	353	2.48	-	33.10	5.97	32.79
AV	5.1492G	52.08	54.00	-1.92	45.80	3	Horizontal	353	2.48	-	33.10	5.97	32.79
PK	5.1936G	118.37	Inf	-Inf	111.95	3	Horizontal	353	2.48	-	33.19	6.00	32.77
AV	5.194G	108.59	Inf	-Inf	102.17	3	Horizontal	353	2.48	-	33.19	6.00	32.77

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

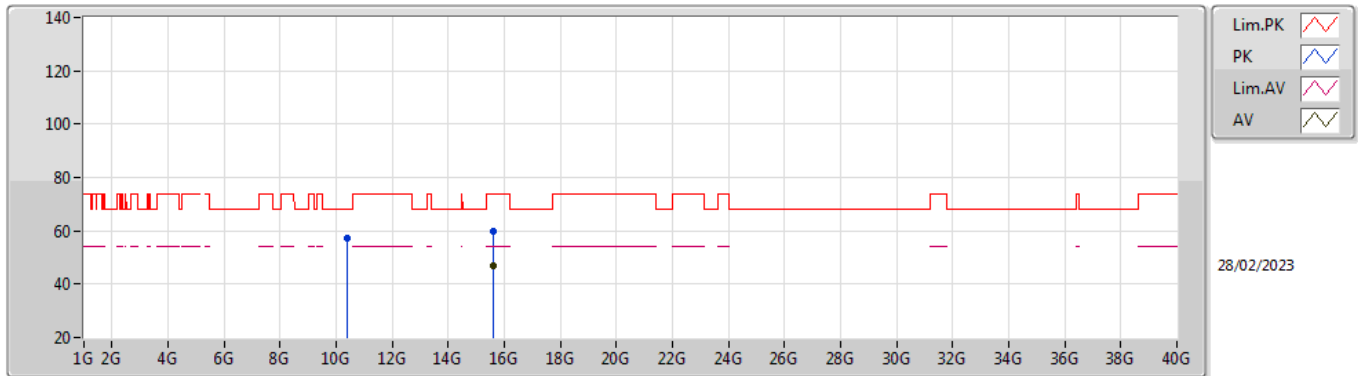


EUT Z_2TX
Setting 24.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.39988G	57.75	68.20	-10.45	42.24	3	Vertical	354	2.17	-	38.80	8.46	31.75
PK	15.60088G	59.67	74.00	-14.33	41.43	3	Vertical	126	1.32	-	38.40	10.54	30.70
AV	15.59128G	47.01	54.00	-6.99	28.75	3	Vertical	126	1.32	-	38.42	10.54	30.70

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

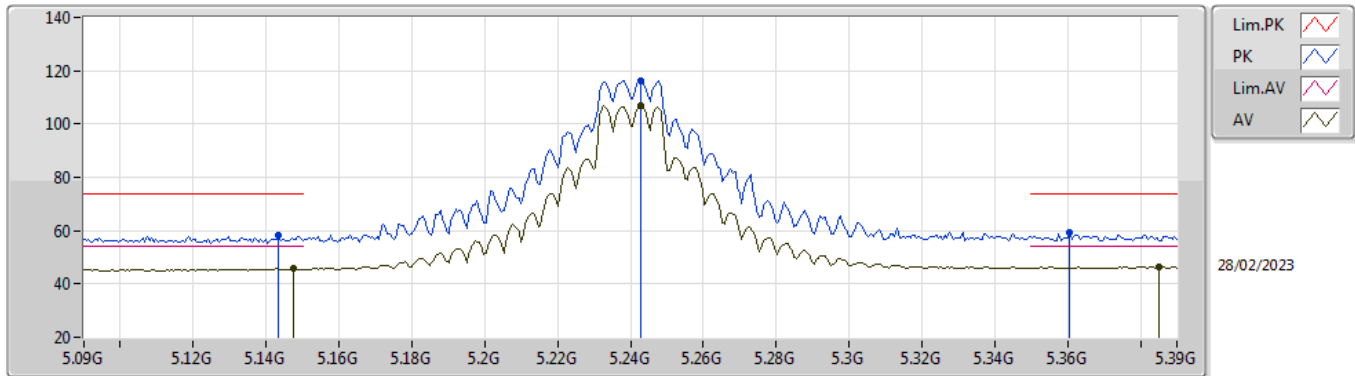


EUT Z_2TX
Setting 24.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.4G	57.28	68.20	-10.92	41.77	3	Horizontal	326	1.80	-	38.80	8.46	31.75
PK	15.60392G	59.89	74.00	-14.11	41.65	3	Horizontal	290	2.60	-	38.40	10.54	30.70
AV	15.59808G	46.92	54.00	-7.08	28.68	3	Horizontal	290	2.60	-	38.40	10.54	30.70

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

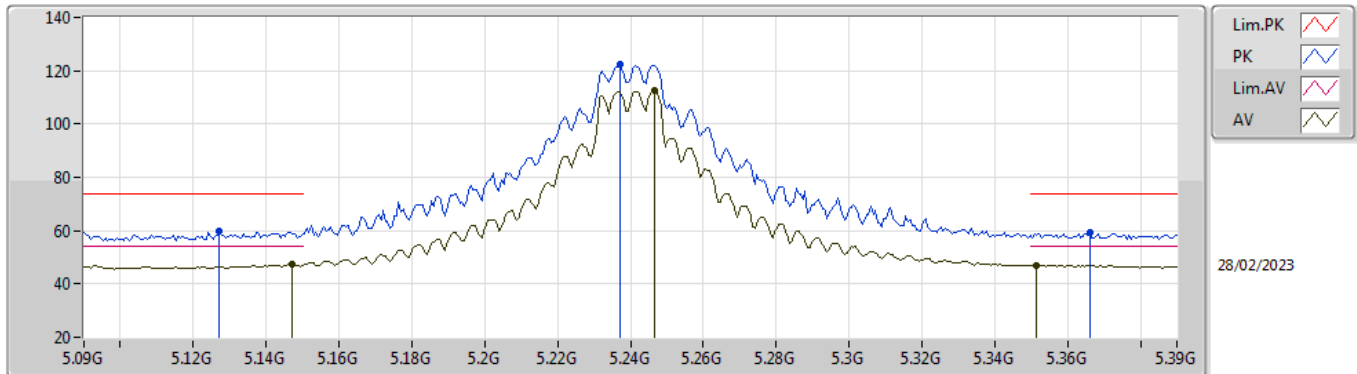


EUT Z_2TX
Setting 28
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1434G	58.10	74.00	-15.90	51.82	3	Vertical	107	2.34	-	33.10	5.97	32.79
AV	5.1476G	45.75	54.00	-8.25	39.47	3	Vertical	107	2.34	-	33.10	5.97	32.79
PK	5.243G	116.32	Inf	-Inf	109.76	3	Vertical	107	2.34	-	33.29	6.02	32.75
AV	5.243G	106.71	Inf	-Inf	100.15	3	Vertical	107	2.34	-	33.29	6.02	32.75
PK	5.3606G	59.09	74.00	-14.91	52.17	3	Vertical	107	2.34	-	33.54	6.08	32.70
AV	5.3852G	46.38	54.00	-7.62	39.34	3	Vertical	107	2.34	-	33.64	6.09	32.69

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

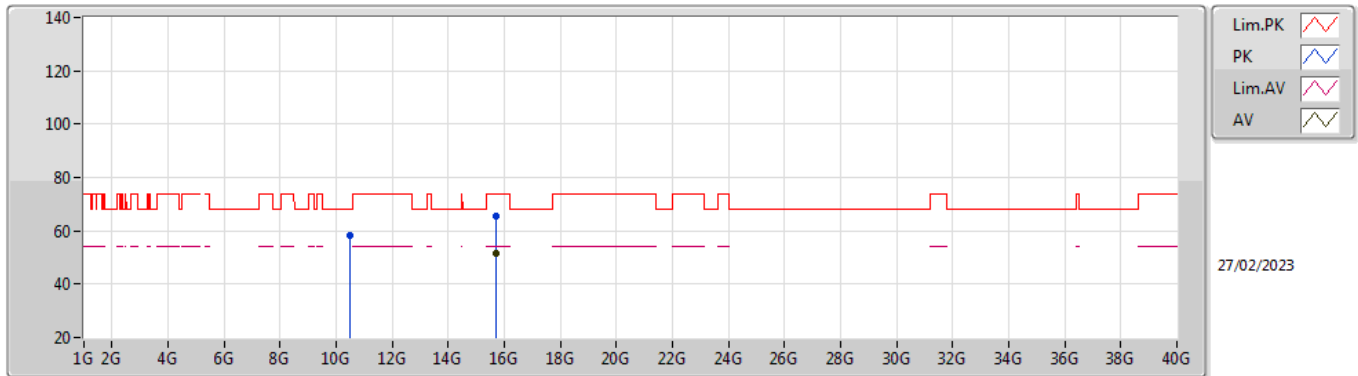


EUT Z_2TX
Setting 28
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1272G	59.76	74.00	-14.24	53.50	3	Horizontal	350	1.00	-	33.10	5.96	32.80
AV	5.147G	47.34	54.00	-6.66	41.06	3	Horizontal	350	1.00	-	33.10	5.97	32.79
PK	5.237G	122.42	Inf	-Inf	115.88	3	Horizontal	350	1.00	-	33.27	6.02	32.75
AV	5.2466G	112.58	Inf	-Inf	106.02	3	Horizontal	350	1.00	-	33.29	6.02	32.75
PK	5.366G	59.18	74.00	-14.82	52.24	3	Horizontal	350	1.00	-	33.56	6.08	32.70
AV	5.3516G	47.02	54.00	-6.98	40.13	3	Horizontal	350	1.00	-	33.51	6.08	32.70

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

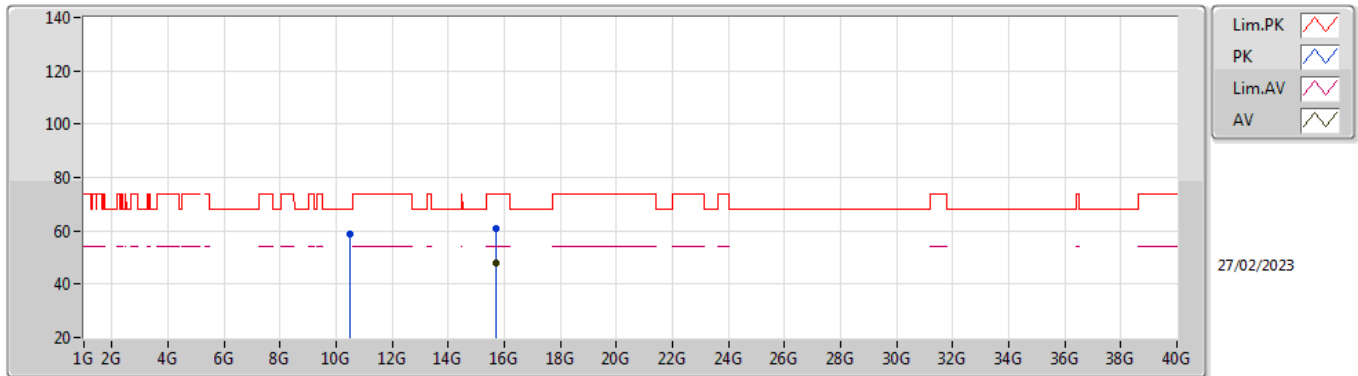


EUT Z_2TX
Setting 28
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.48004G	58.26	68.20	-9.94	42.63	3	Vertical	356	2.14	-	38.80	8.49	31.66
PK	15.71836G	65.37	74.00	-8.63	47.08	3	Vertical	326	1.93	-	38.36	10.59	30.66
AV	15.72272G	51.50	54.00	-2.50	33.20	3	Vertical	326	1.93	-	38.37	10.59	30.66

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

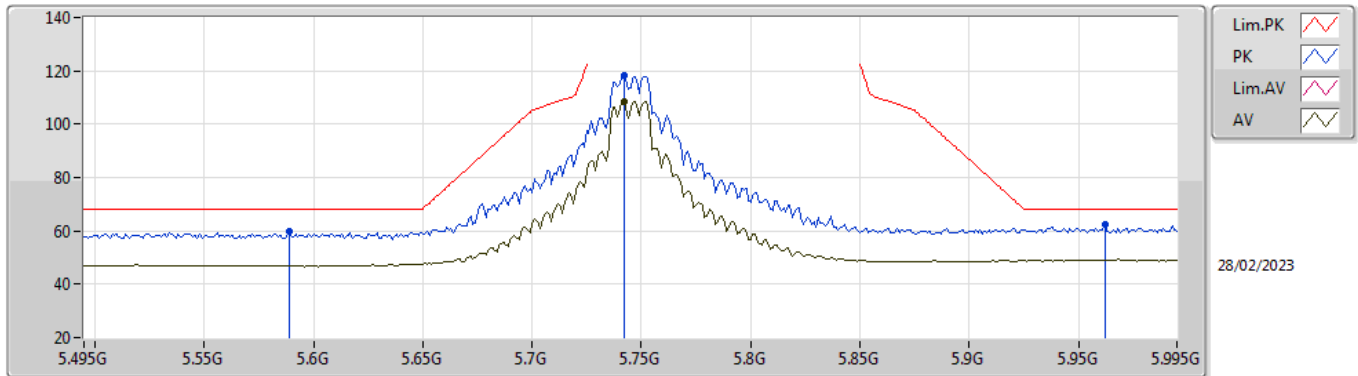


EUT Z_2TX
Setting 28
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47764G	58.82	68.20	-9.38	43.19	3	Horizontal	337	2.13	-	38.80	8.49	31.66
PK	15.71848G	61.11	74.00	-12.89	42.82	3	Horizontal	66	3.00	-	38.36	10.59	30.66
AV	15.7234G	48.06	54.00	-5.94	29.76	3	Horizontal	66	3.00	-	38.37	10.59	30.66

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

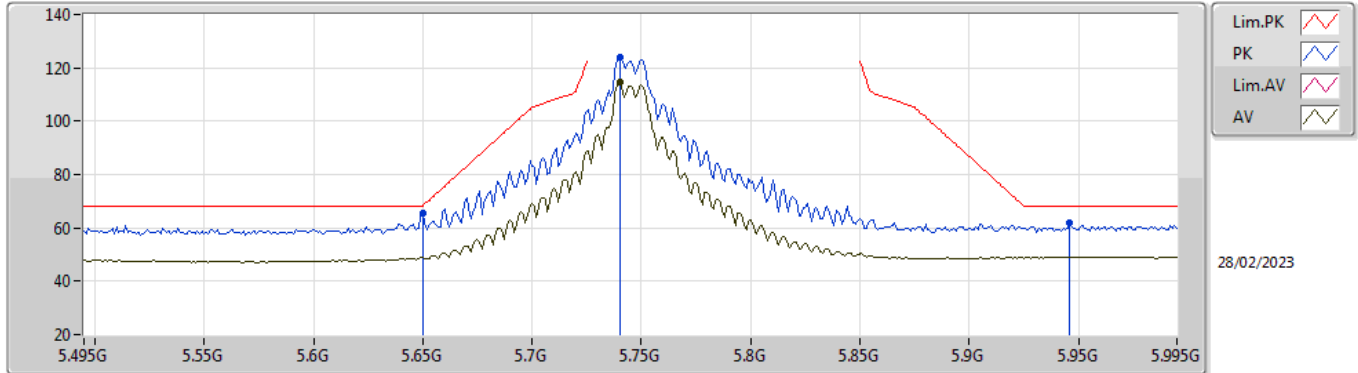


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.589G	59.72	68.20	-8.48	51.95	3	Vertical	353	3.00	-	34.26	6.19	32.68
PK	5.742G	118.53	Inf	-Inf	110.50	3	Vertical	353	3.00	-	34.50	6.27	32.74
AV	5.742G	108.64	Inf	-Inf	100.61	3	Vertical	353	3.00	-	34.50	6.27	32.74
PK	5.962G	62.57	68.20	-5.63	53.51	3	Vertical	353	3.00	-	35.50	6.38	32.82

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

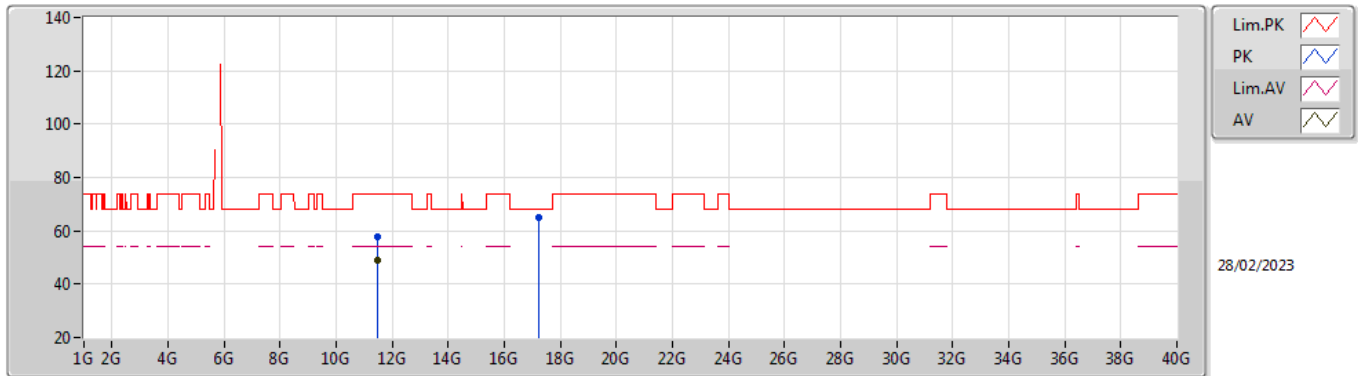


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.65G	65.46	68.20	-2.74	57.64	3	Horizontal	104	2.23	-	34.30	6.22	32.70
PK	5.74G	123.96	Inf	-Inf	115.93	3	Horizontal	104	2.23	-	34.50	6.27	32.74
AV	5.74G	114.70	Inf	-Inf	106.67	3	Horizontal	104	2.23	-	34.50	6.27	32.74
PK	5.946G	61.89	68.20	-6.31	52.86	3	Horizontal	104	2.23	-	35.48	6.37	32.82

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

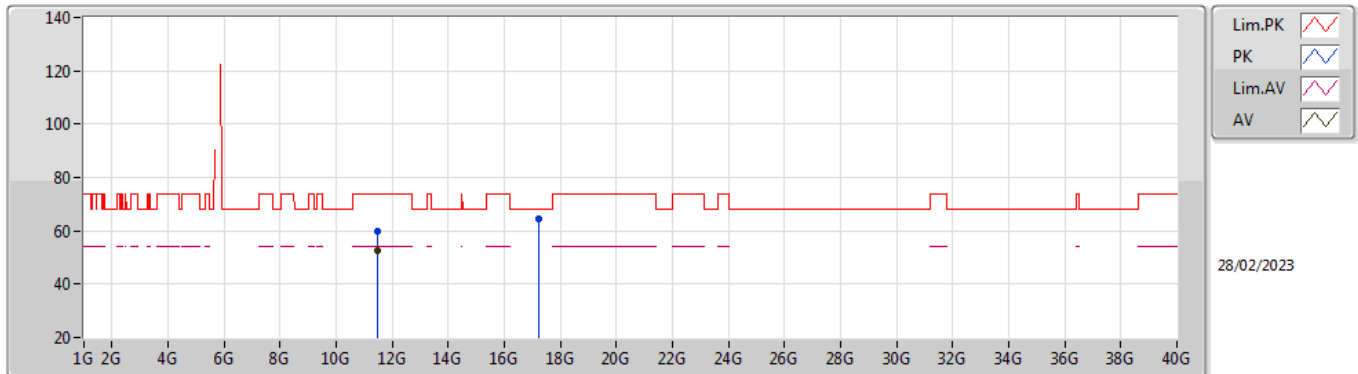


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48988G	57.98	74.00	-16.02	42.03	3	Vertical	44	2.41	-	38.80	8.90	31.75
AV	11.49G	48.79	54.00	-5.21	32.84	3	Vertical	44	2.41	-	38.80	8.90	31.75
PK	17.23948G	64.87	68.20	-3.33	41.79	3	Vertical	321	2.31	-	42.06	11.20	30.18

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

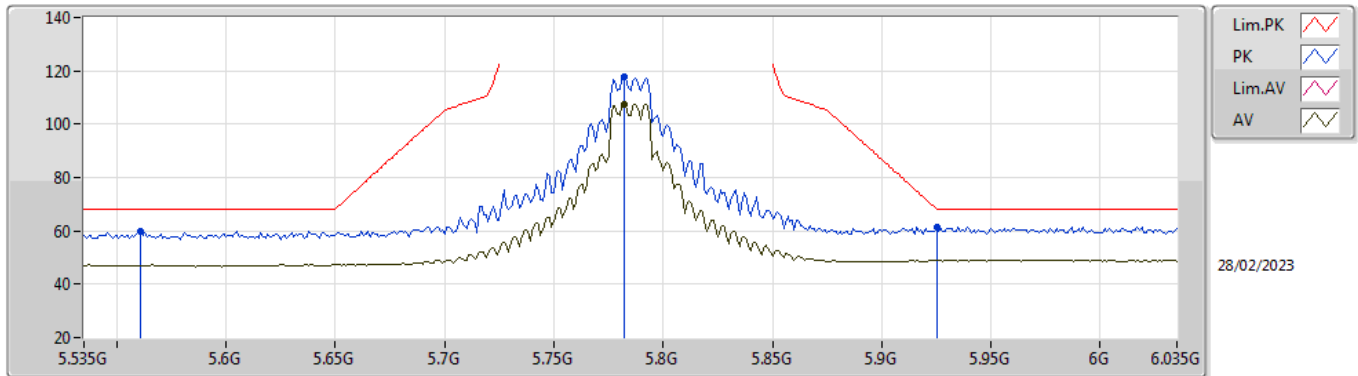


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48988G	59.99	74.00	-14.01	44.04	3	Horizontal	38	1.80	-	38.80	8.90	31.75
AV	11.49G	52.74	54.00	-1.26	36.79	3	Horizontal	38	1.80	-	38.80	8.90	31.75
PK	17.2325G	64.45	68.20	-3.75	41.40	3	Horizontal	47	1.49	-	42.03	11.19	30.17

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

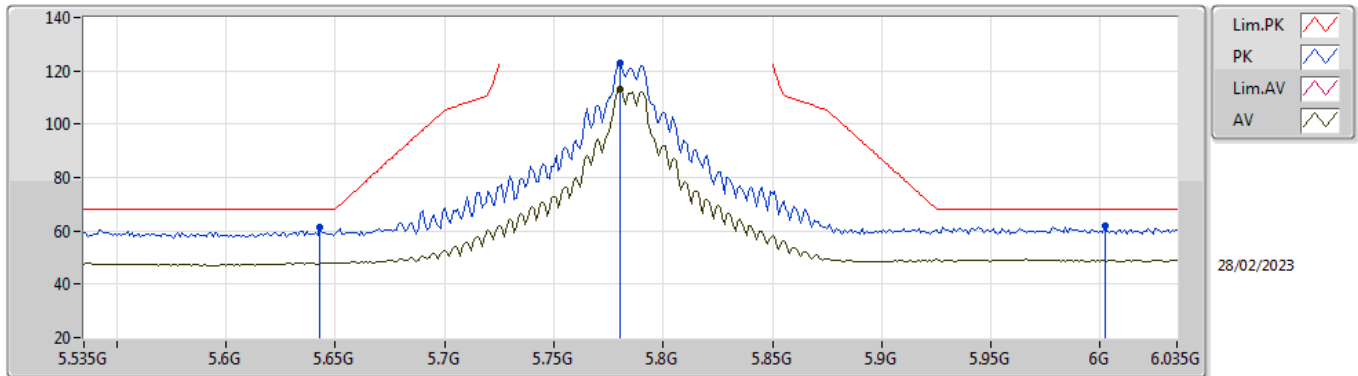


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.561G	59.88	68.20	-8.32	52.22	3	Vertical	360	2.84	-	34.14	6.18	32.66
PK	5.782G	117.92	Inf	-Inf	109.82	3	Vertical	360	2.84	-	34.56	6.29	32.75
AV	5.782G	107.64	Inf	-Inf	99.54	3	Vertical	360	2.84	-	34.56	6.29	32.75
PK	5.925G	61.32	68.20	-6.88	52.37	3	Vertical	360	2.84	-	35.40	6.36	32.81

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

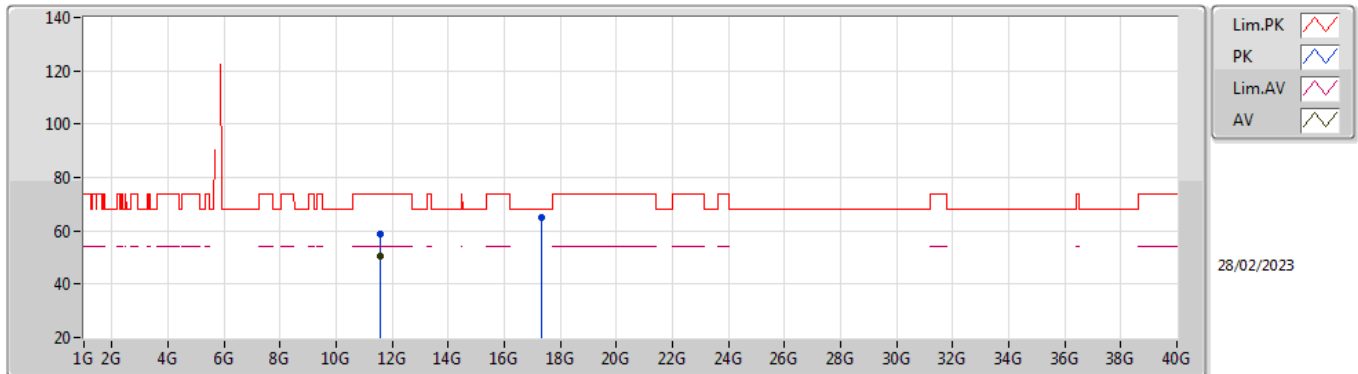


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.643G	61.26	68.20	-6.94	53.44	3	Horizontal	103	2.32	-	34.30	6.22	32.70
PK	5.78G	122.82	Inf	-Inf	114.72	3	Horizontal	103	2.32	-	34.56	6.29	32.75
AV	5.78G	113.32	Inf	-Inf	105.22	3	Horizontal	103	2.32	-	34.56	6.29	32.75
PK	6.002G	61.93	68.20	-6.27	52.87	3	Horizontal	103	2.32	-	35.50	6.40	32.84

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

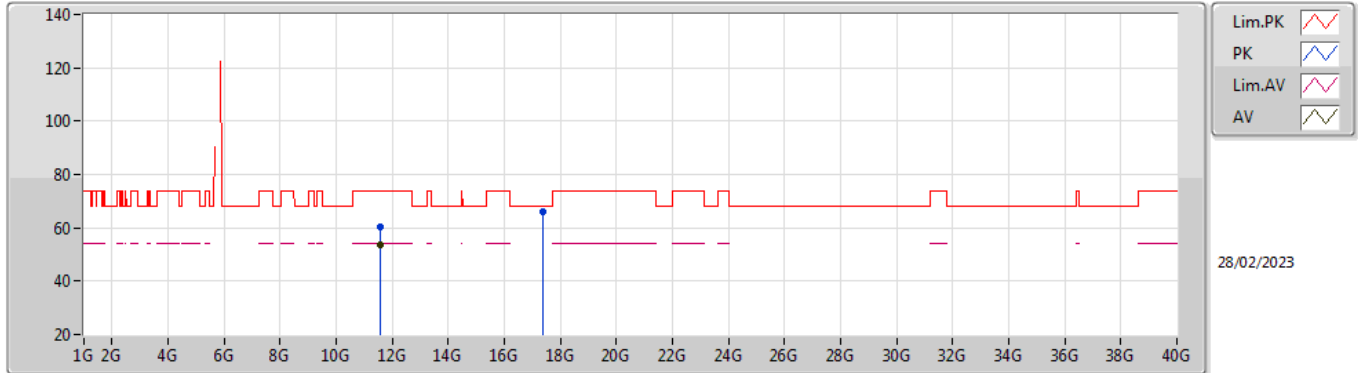


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.56976G	58.67	74.00	-15.33	42.65	3	Vertical	45	2.40	-	38.80	8.93	31.71
AV	11.57012G	50.28	54.00	-3.72	34.26	3	Vertical	45	2.40	-	38.80	8.93	31.71
PK	17.35208G	65.18	68.20	-3.02	41.84	3	Vertical	88	1.22	-	42.46	11.24	30.36

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

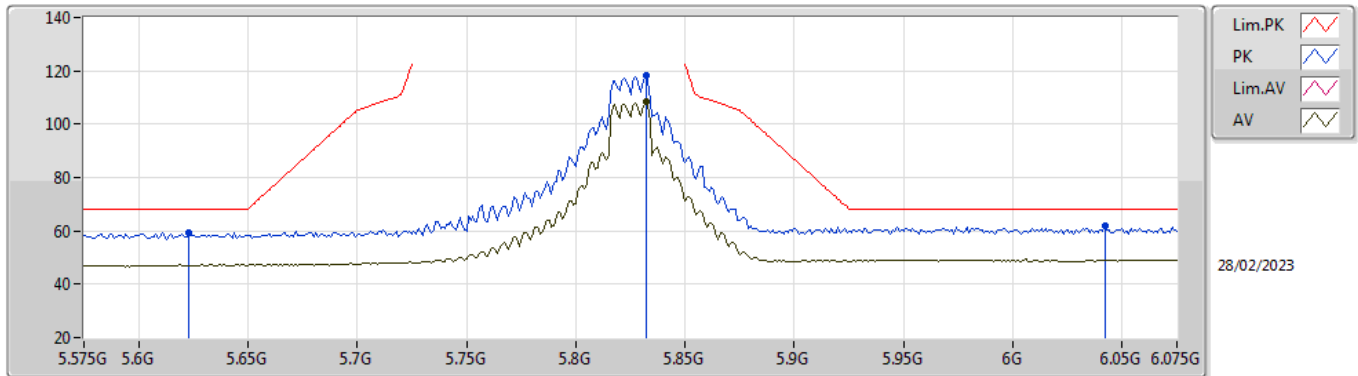


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.56976G	60.17	74.00	-13.83	44.15	3	Horizontal	41	1.80	-	38.80	8.93	31.71
AV	11.56988G	53.84	54.00	-0.16	37.82	3	Horizontal	41	1.80	-	38.80	8.93	31.71
PK	17.35516G	65.80	68.20	-2.40	42.45	3	Horizontal	291	1.82	-	42.47	11.24	30.36

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

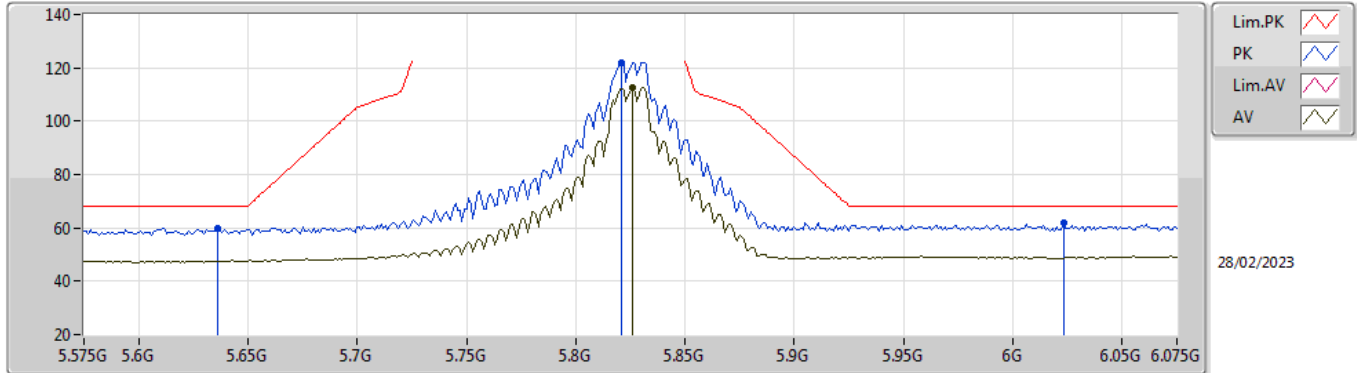


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.623G	59.45	68.20	-8.75	51.63	3	Vertical	359	2.93	-	34.30	6.21	32.69
PK	5.832G	118.12	Inf	-Inf	109.78	3	Vertical	359	2.93	-	34.79	6.32	32.77
AV	5.832G	108.29	Inf	-Inf	99.95	3	Vertical	359	2.93	-	34.79	6.32	32.77
PK	6.042G	61.79	68.20	-6.41	52.63	3	Vertical	359	2.93	-	35.58	6.42	32.84

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

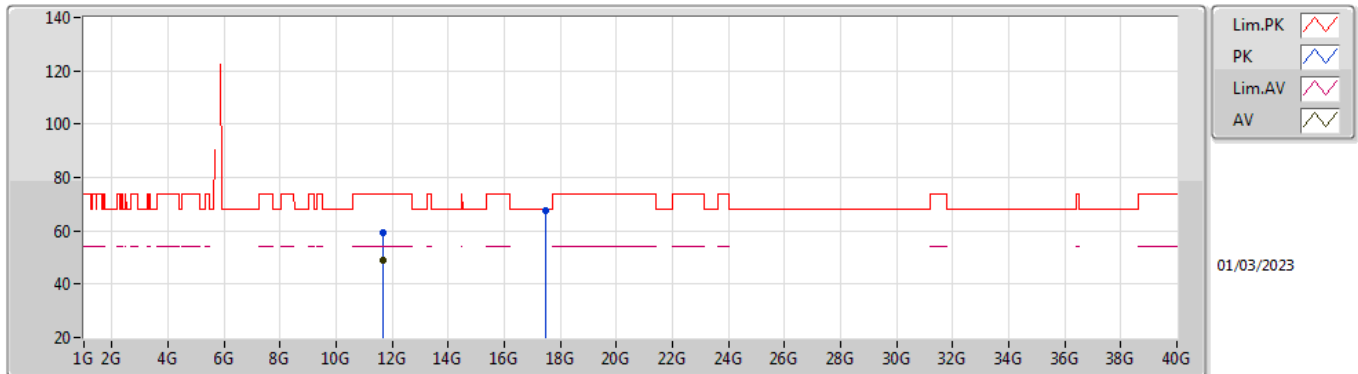


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.636G	59.98	68.20	-8.22	52.15	3	Horizontal	99	1.80	-	34.30	6.22	32.69
PK	5.821G	122.06	Inf	-Inf	113.79	3	Horizontal	99	1.80	-	34.73	6.31	32.77
AV	5.826G	112.58	Inf	-Inf	104.28	3	Horizontal	99	1.80	-	34.76	6.31	32.77
PK	6.023G	61.70	68.20	-6.50	52.58	3	Horizontal	99	1.80	-	35.55	6.41	32.84

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

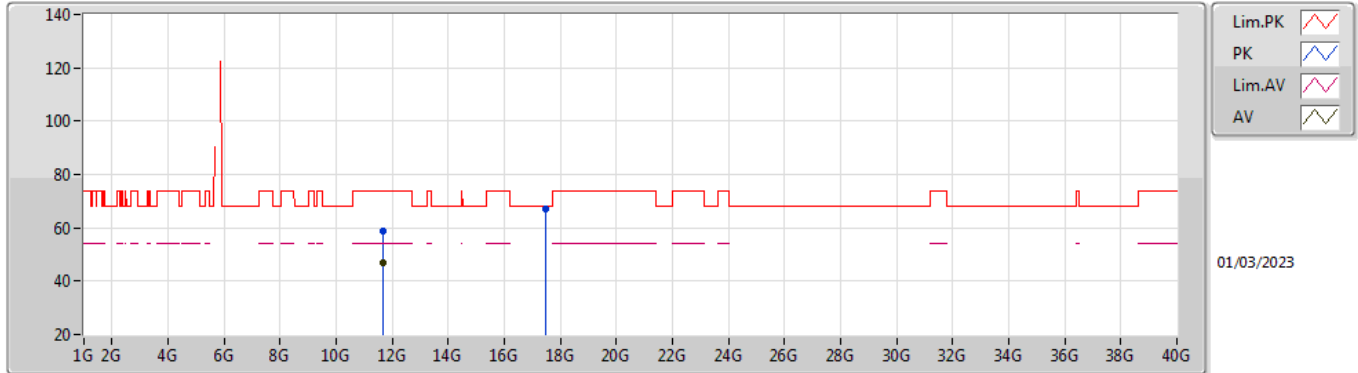


EUT Y_2TX
Setting 28
01-F-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.65162G	59.37	74.00	-14.63	43.24	3	Vertical	110	1.80	-	38.85	8.96	31.68
AV	11.65006G	49.16	54.00	-4.84	33.03	3	Vertical	110	1.80	-	38.85	8.96	31.68
PK	17.47326G	67.50	68.20	-0.70	44.23	3	Vertical	48	1.80	-	42.53	11.29	30.55

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

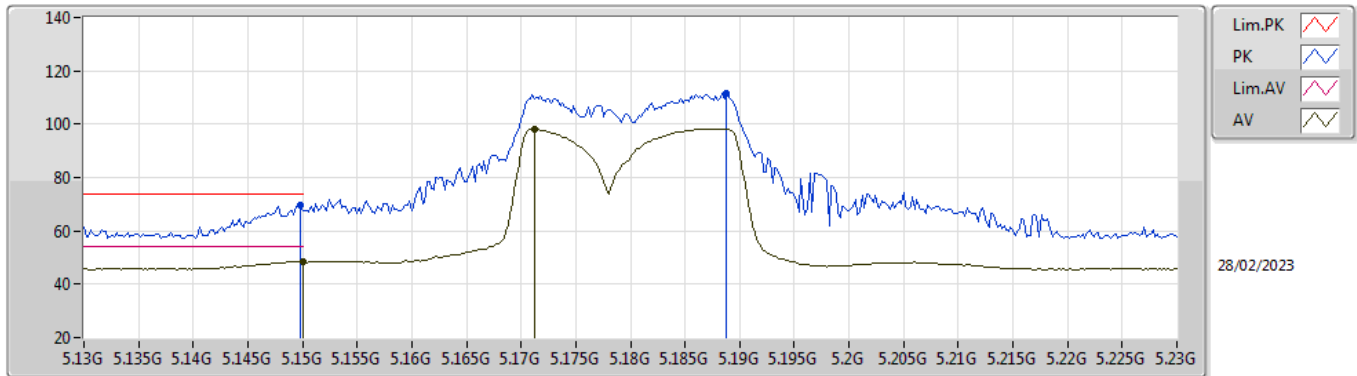


EUT Y_2TX
Setting 28
01-F-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.65006G	59.00	74.00	-15.00	42.87	3	Horizontal	28	1.76	-	38.85	8.96	31.68
AV	11.65G	46.99	54.00	-7.01	30.86	3	Horizontal	28	1.76	-	38.85	8.96	31.68
PK	17.48658G	67.16	68.20	-1.04	43.93	3	Horizontal	289	1.95	-	42.51	11.29	30.57

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5180MHz_TX

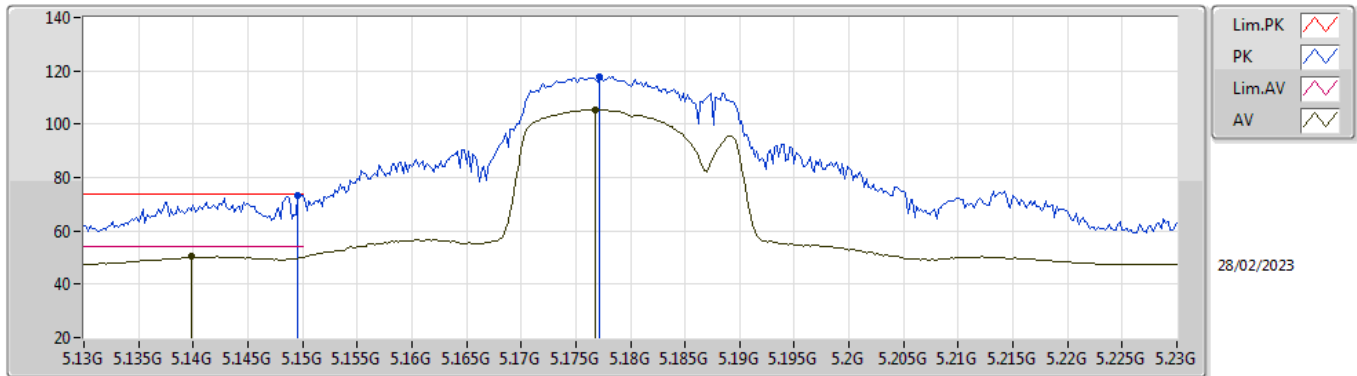


EUT_Z_2TX
Setting 22.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1498G	69.87	74.00	-4.13	63.59	3	Vertical	92	1.56	-	33.10	5.97	32.79
AV	5.15G	48.48	54.00	-5.52	42.20	3	Vertical	92	1.56	-	33.10	5.97	32.79
PK	5.1888G	111.64	Inf	-Inf	105.24	3	Vertical	92	1.56	-	33.18	5.99	32.77
AV	5.1712G	98.30	Inf	-Inf	91.95	3	Vertical	92	1.56	-	33.14	5.99	32.78

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5180MHz_TX

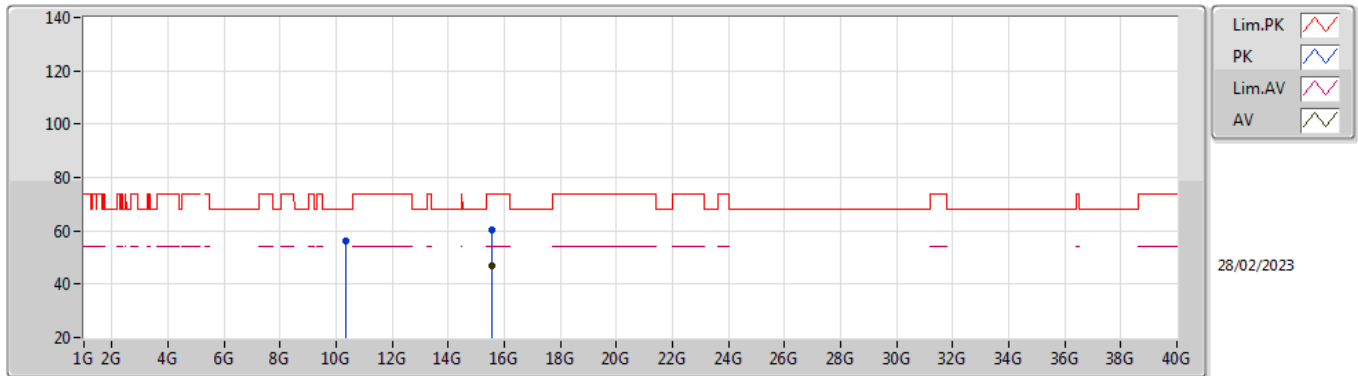


EUT Z_2TX
Setting 22.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	73.40	74.00	-0.60	67.12	3	Horizontal	349	2.48	-	33.10	5.97	32.79
AV	5.1398G	50.38	54.00	-3.62	44.10	3	Horizontal	349	2.48	-	33.10	5.97	32.79
PK	5.1772G	117.95	Inf	-Inf	111.59	3	Horizontal	349	2.48	-	33.15	5.99	32.78
AV	5.1768G	105.35	Inf	-Inf	98.99	3	Horizontal	349	2.48	-	33.15	5.99	32.78

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5180MHz_TX

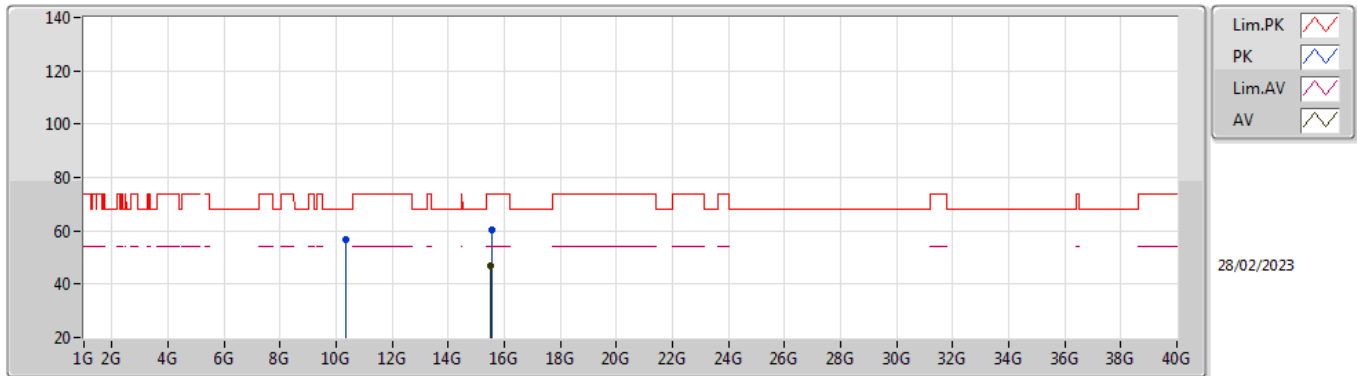


EUT Z_2TX
Setting 22.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.36016G	56.24	68.20	-11.96	40.87	3	Vertical	86	2.53	-	38.72	8.44	31.79
PK	15.54508G	60.56	74.00	-13.44	42.25	3	Vertical	243	2.39	-	38.51	10.52	30.72
AV	15.53884G	46.94	54.00	-7.06	28.62	3	Vertical	243	2.39	-	38.52	10.52	30.72

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5180MHz_TX

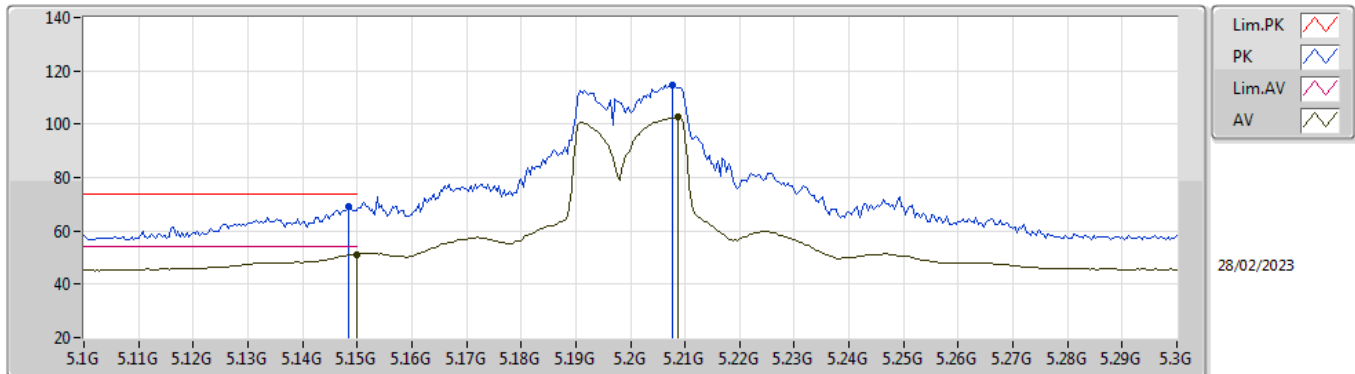


EUT Z_2TX
Setting 22.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.36004G	56.50	68.20	-11.70	41.13	3	Horizontal	186	1.81	-	38.72	8.44	31.79
PK	15.54564G	60.44	74.00	-13.56	42.13	3	Horizontal	309	1.11	-	38.51	10.52	30.72
AV	15.53052G	46.87	54.00	-7.13	28.54	3	Horizontal	309	1.11	-	38.54	10.51	30.72

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5200MHz_TX

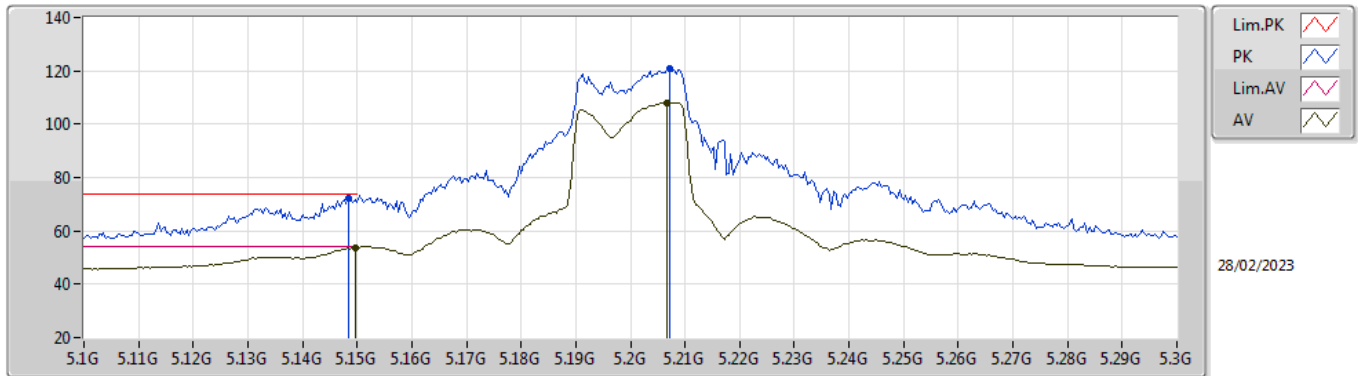


EUT_Z_2TX
Setting 25.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1484G	69.09	74.00	-4.91	62.81	3	Vertical	92	1.55	-	33.10	5.97	32.79
AV	5.15G	51.09	54.00	-2.91	44.81	3	Vertical	92	1.55	-	33.10	5.97	32.79
PK	5.2076G	114.50	Inf	-Inf	108.04	3	Vertical	92	1.55	-	33.22	6.00	32.76
AV	5.2088G	102.65	Inf	-Inf	96.19	3	Vertical	92	1.55	-	33.22	6.00	32.76

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5200MHz_TX

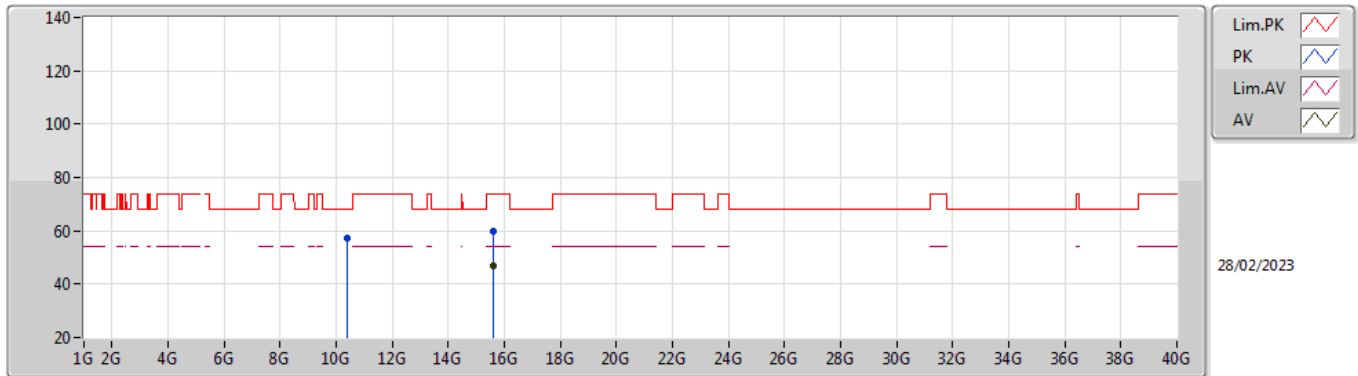


EUT_Z_2TX
Setting 25.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1484G	72.44	74.00	-1.56	66.16	3	Horizontal	349	1.03	-	33.10	5.97	32.79
AV	5.1496G	53.67	54.00	-0.33	47.39	3	Horizontal	349	1.03	-	33.10	5.97	32.79
PK	5.2072G	121.08	Inf	-Inf	114.63	3	Horizontal	349	1.03	-	33.21	6.00	32.76
AV	5.2068G	108.17	Inf	-Inf	101.72	3	Horizontal	349	1.03	-	33.21	6.00	32.76

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5200MHz_TX

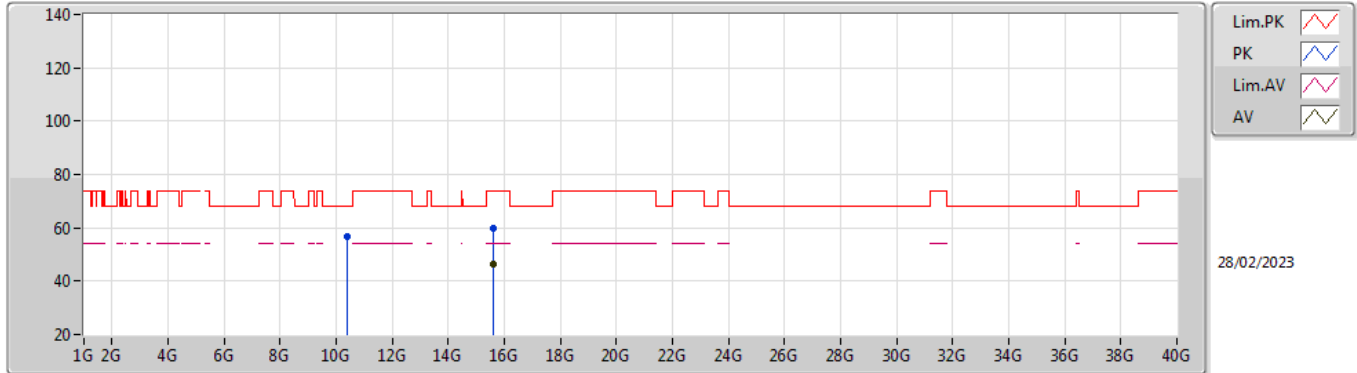


EUT Z_2TX
Setting 25.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.40008G	57.13	68.20	-11.07	41.62	3	Vertical	355	2.17	-	38.80	8.46	31.75
PK	15.59604G	59.88	74.00	-14.12	41.63	3	Vertical	185	2.14	-	38.41	10.54	30.70
AV	15.59472G	46.67	54.00	-7.33	28.42	3	Vertical	185	2.14	-	38.41	10.54	30.70

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5200MHz_TX

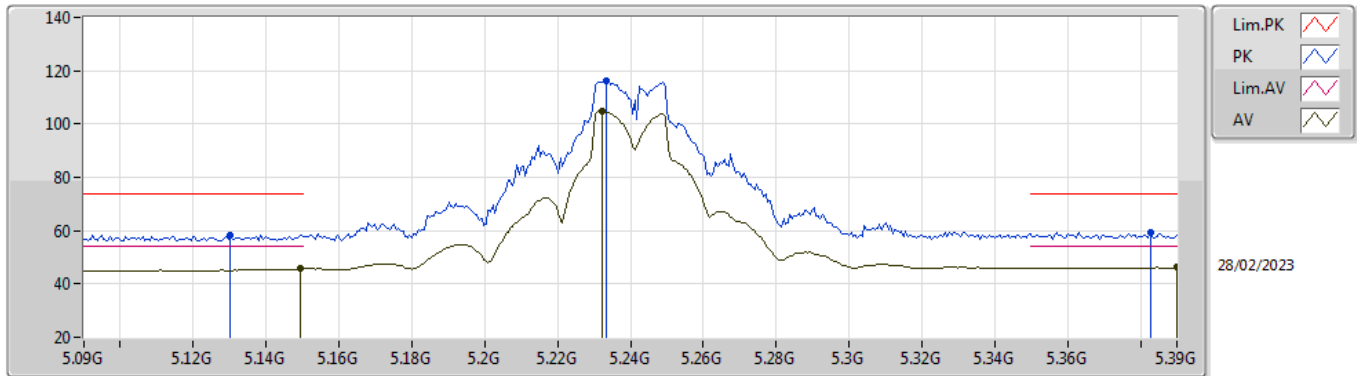


EUT Z_2TX
Setting 25.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.40024G	56.86	68.20	-11.34	41.35	3	Horizontal	332	2.32	-	38.80	8.46	31.75
PK	15.59336G	59.92	74.00	-14.08	41.67	3	Horizontal	280	2.26	-	38.41	10.54	30.70
AV	15.59636G	46.52	54.00	-7.48	28.27	3	Horizontal	280	2.26	-	38.41	10.54	30.70

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5240MHz_TX

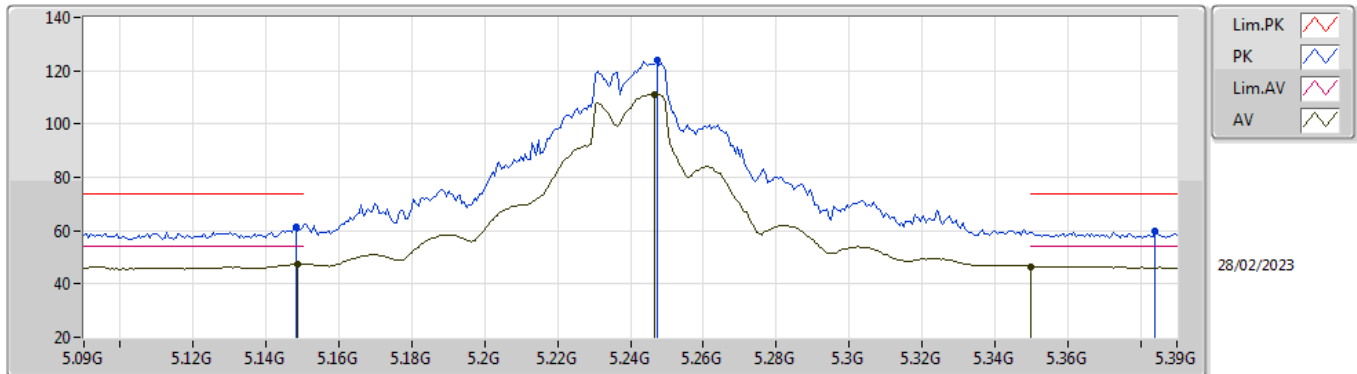


EUT_Z_2TX
Setting 28
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1302G	58.24	74.00	-15.76	51.97	3	Vertical	107	2.36	-	33.10	5.97	32.80
AV	5.1494G	45.66	54.00	-8.34	39.38	3	Vertical	107	2.36	-	33.10	5.97	32.79
PK	5.2334G	116.24	Inf	-Inf	109.70	3	Vertical	107	2.36	-	33.27	6.02	32.75
AV	5.2322G	105.04	Inf	-Inf	98.51	3	Vertical	107	2.36	-	33.26	6.02	32.75
PK	5.3828G	59.55	74.00	-14.45	52.52	3	Vertical	107	2.36	-	33.63	6.09	32.69
AV	5.39G	46.17	54.00	-7.83	39.11	3	Vertical	107	2.36	-	33.66	6.09	32.69

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5240MHz_TX

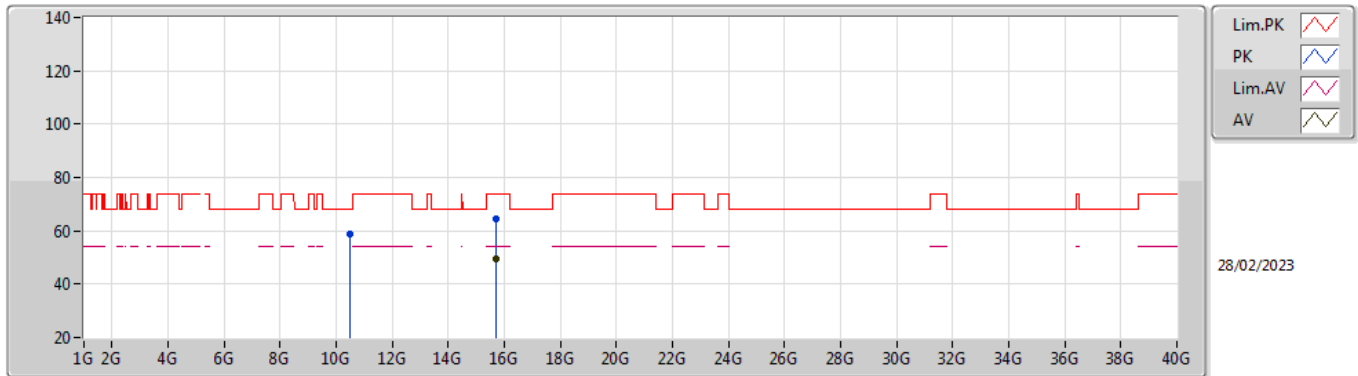


EUT_Z_2TX
Setting 28
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1482G	61.35	74.00	-12.65	55.07	3	Horizontal	351	1.01	-	33.10	5.97	32.79
AV	5.1488G	47.67	54.00	-6.33	41.39	3	Horizontal	351	1.01	-	33.10	5.97	32.79
PK	5.2472G	123.99	Inf	-Inf	117.43	3	Horizontal	351	1.01	-	33.29	6.02	32.75
AV	5.2466G	111.24	Inf	-Inf	104.68	3	Horizontal	351	1.01	-	33.29	6.02	32.75
PK	5.384G	59.72	74.00	-14.28	52.68	3	Horizontal	351	1.01	-	33.64	6.09	32.69
AV	5.35G	46.60	54.00	-7.40	39.72	3	Horizontal	351	1.01	-	33.50	6.08	32.70

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5240MHz_TX

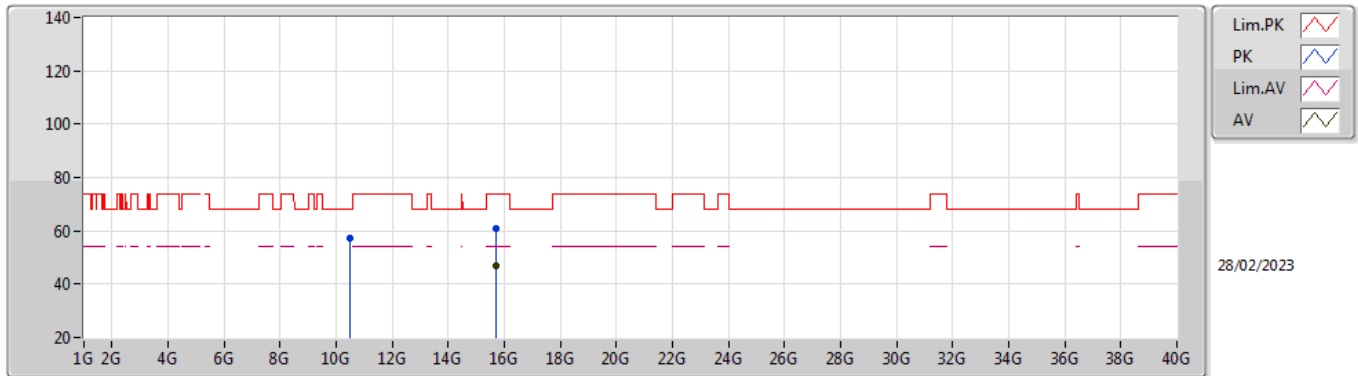


EUT Z_2TX
Setting 28
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.48004G	58.63	68.20	-9.57	43.00	3	Vertical	357	1.80	-	38.80	8.49	31.66
PK	15.71396G	64.64	74.00	-9.36	46.38	3	Vertical	7	1.89	-	38.34	10.59	30.67
AV	15.71628G	49.48	54.00	-4.52	31.21	3	Vertical	7	1.89	-	38.35	10.59	30.67

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5240MHz_TX

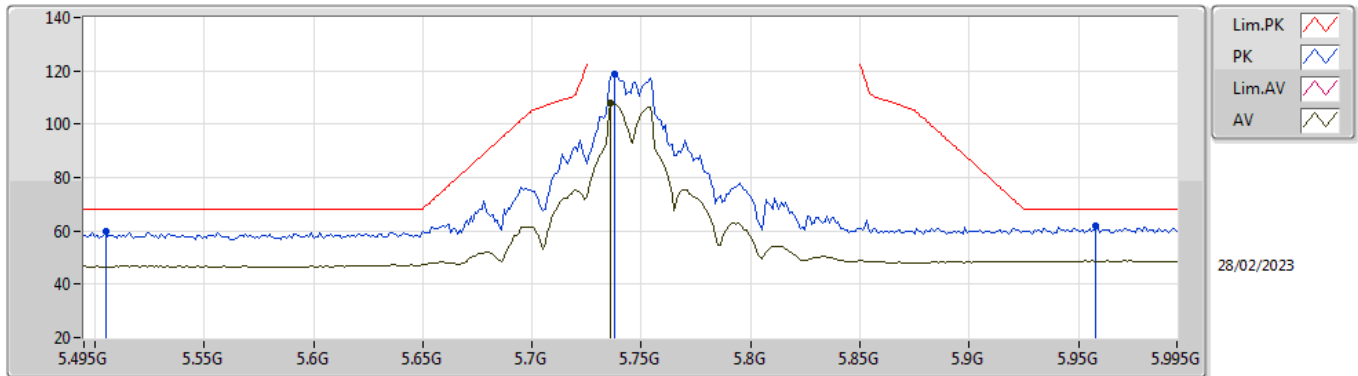


EUT Z_2TX
Setting 28
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.47912G	57.23	68.20	-10.97	41.60	3	Horizontal	333	1.01	-	38.80	8.49	31.66
PK	15.72624G	60.88	74.00	-13.12	42.57	3	Horizontal	322	1.80	-	38.38	10.59	30.66
AV	15.72744G	46.64	54.00	-7.36	28.33	3	Horizontal	322	1.80	-	38.38	10.59	30.66

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5745MHz_TX

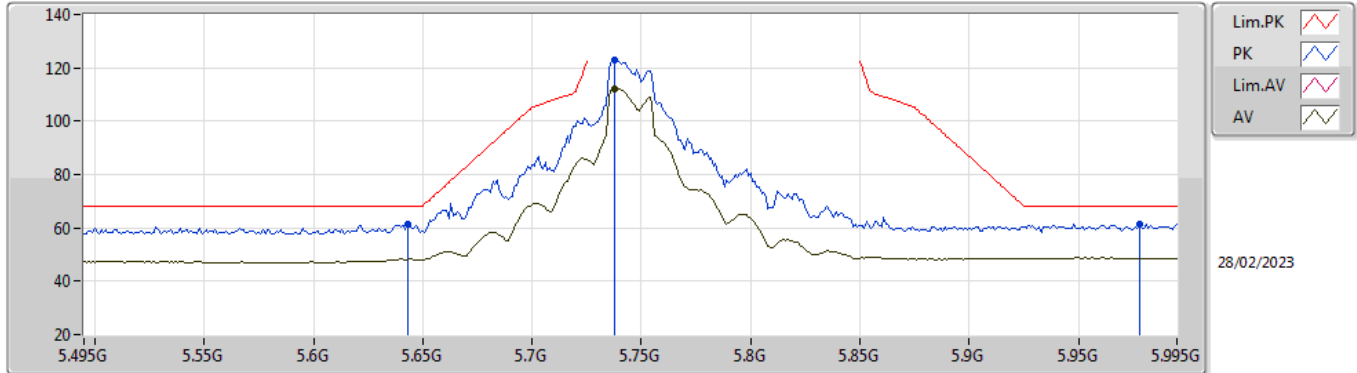


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.505G	59.95	68.20	-8.25	52.34	3	Vertical	0	2.63	-	34.10	6.15	32.64
PK	5.738G	118.73	Inf	-Inf	110.70	3	Vertical	0	2.63	-	34.50	6.27	32.74
AV	5.736G	107.92	Inf	-Inf	99.88	3	Vertical	0	2.63	-	34.50	6.27	32.73
PK	5.958G	61.99	68.20	-6.21	52.93	3	Vertical	0	2.63	-	35.50	6.38	32.82

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5745MHz_TX

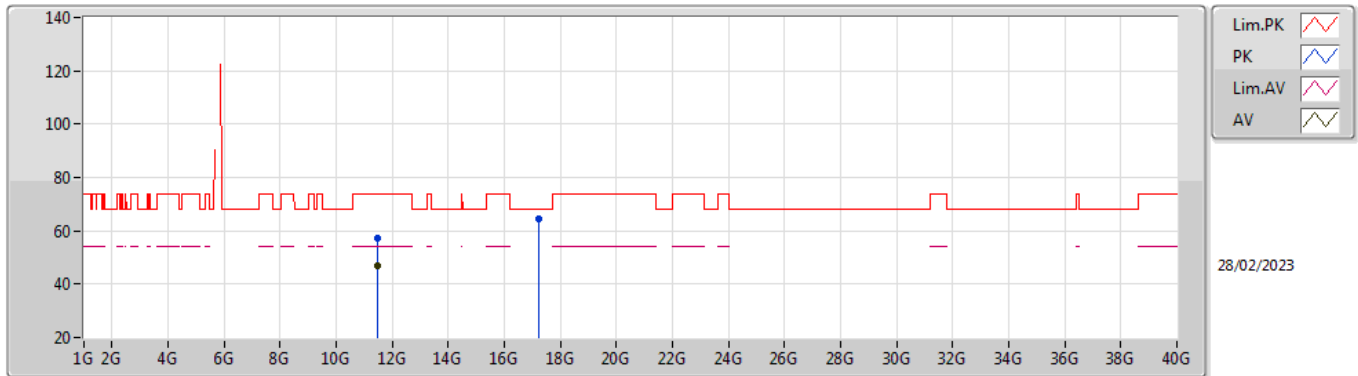


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.643G	61.32	68.20	-6.88	53.50	3	Horizontal	113	1.80	-	34.30	6.22	32.70
PK	5.738G	122.99	Inf	-Inf	114.96	3	Horizontal	113	1.80	-	34.50	6.27	32.74
AV	5.738G	112.04	Inf	-Inf	104.01	3	Horizontal	113	1.80	-	34.50	6.27	32.74
PK	5.978G	61.41	68.20	-6.79	52.35	3	Horizontal	113	1.80	-	35.50	6.39	32.83

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5745MHz_TX

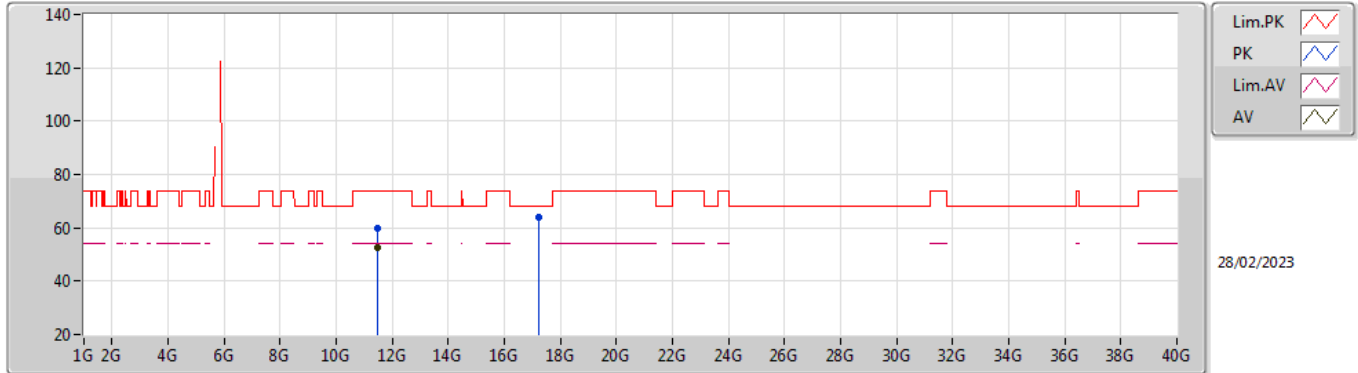


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.47974G	57.17	74.00	-16.83	41.23	3	Vertical	81	1.80	-	38.80	8.89	31.75
AV	11.48994G	47.10	54.00	-6.90	31.15	3	Vertical	81	1.80	-	38.80	8.90	31.75
PK	17.22954G	64.57	68.20	-3.63	41.53	3	Vertical	130	1.80	-	42.02	11.19	30.17

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5745MHz_TX

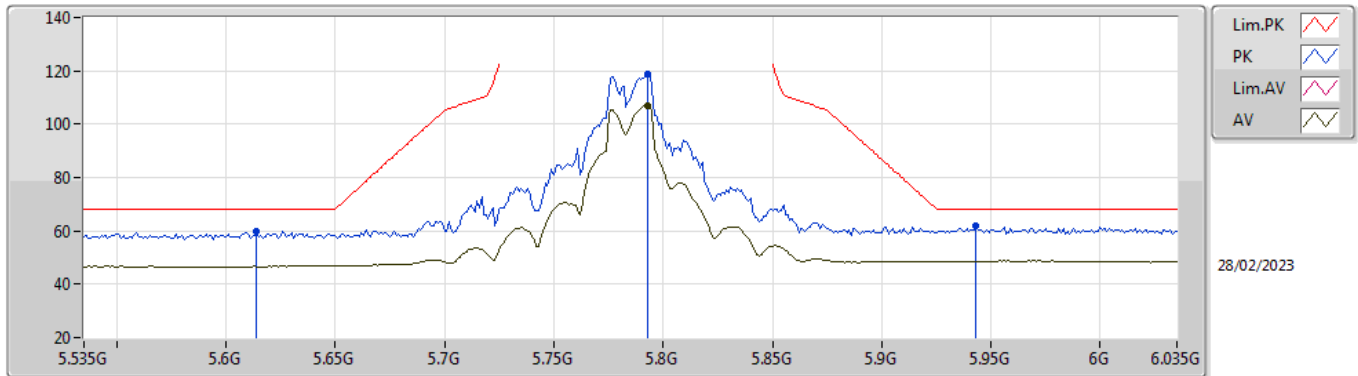


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48994G	59.58	74.00	-14.42	43.63	3	Horizontal	40	1.80	-	38.80	8.90	31.75
AV	11.48988G	52.68	54.00	-1.32	36.73	3	Horizontal	40	1.80	-	38.80	8.90	31.75
PK	17.23248G	64.17	68.20	-4.03	41.12	3	Horizontal	302	1.80	-	42.03	11.19	30.17

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5785MHz_TX

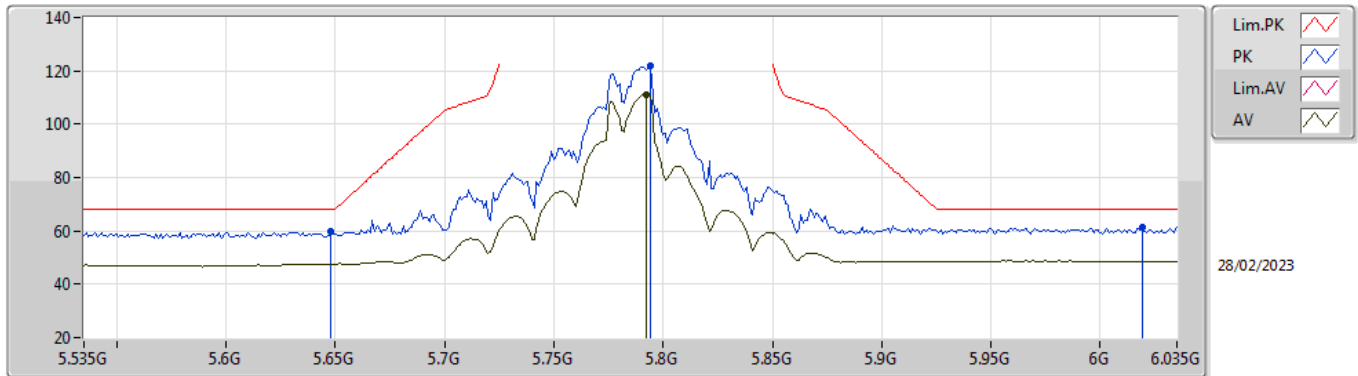


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.614G	60.07	68.20	-8.13	52.25	3	Vertical	358	2.83	-	34.30	6.21	32.69
PK	5.793G	119.04	Inf	-Inf	110.91	3	Vertical	358	2.83	-	34.59	6.30	32.76
AV	5.793G	107.15	Inf	-Inf	99.02	3	Vertical	358	2.83	-	34.59	6.30	32.76
PK	5.943G	61.92	68.20	-6.28	52.90	3	Vertical	358	2.83	-	35.47	6.37	32.82

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5785MHz_TX

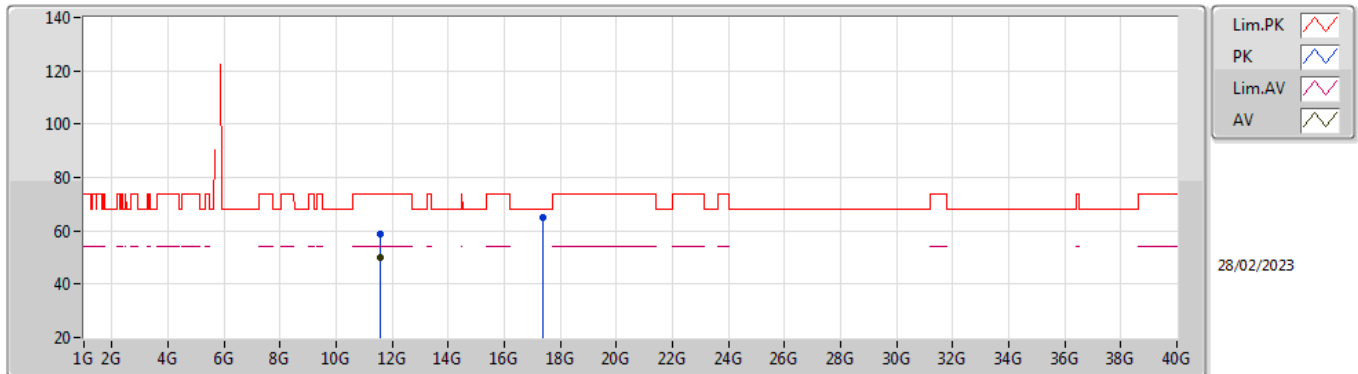


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.648G	59.79	68.20	-8.41	51.97	3	Horizontal	92	1.80	-	34.30	6.22	32.70
PK	5.794G	121.69	Inf	-Inf	113.56	3	Horizontal	92	1.80	-	34.59	6.30	32.76
AV	5.792G	110.88	Inf	-Inf	102.76	3	Horizontal	92	1.80	-	34.58	6.30	32.76
PK	6.019G	61.59	68.20	-6.61	52.48	3	Horizontal	92	1.80	-	35.54	6.41	32.84

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5785MHz_TX

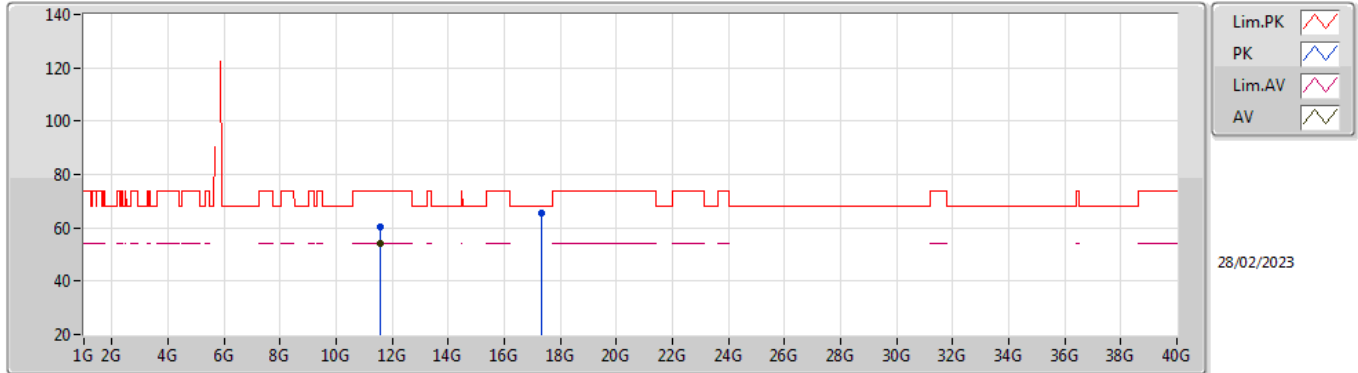


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.56988G	58.71	74.00	-15.29	42.69	3	Vertical	44	2.40	-	38.80	8.93	31.71
AV	11.57012G	49.95	54.00	-4.05	33.93	3	Vertical	44	2.40	-	38.80	8.93	31.71
PK	17.36658G	65.23	68.20	-2.97	41.86	3	Vertical	212	2.35	-	42.50	11.25	30.38

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5785MHz_TX

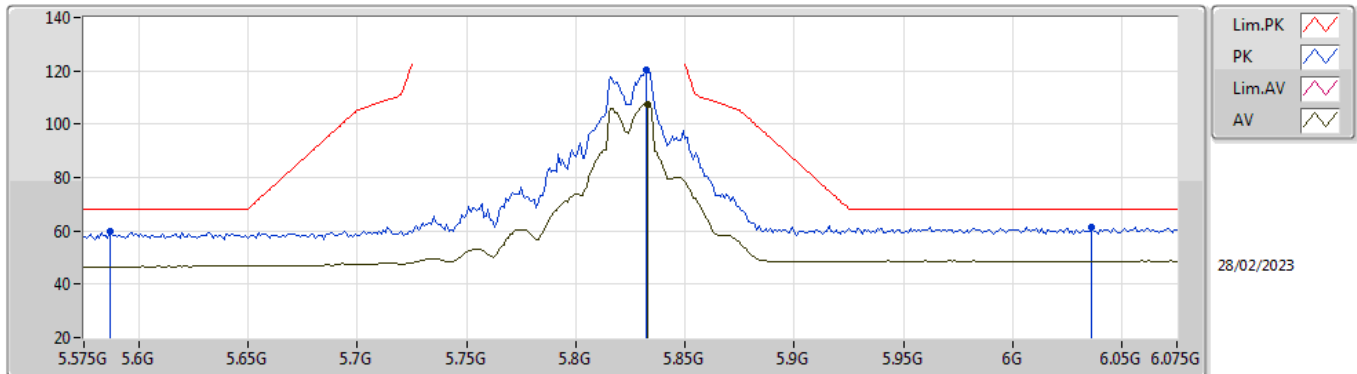


EUT Y_2TX
Setting 28
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.57G	60.27	74.00	-13.73	44.25	3	Horizontal	40	1.80	-	38.80	8.93	31.71
AV	11.57G	53.97	54.00	-0.03	37.95	3	Horizontal	40	1.80	-	38.80	8.93	31.71
PK	17.34054G	65.42	68.20	-2.78	42.10	3	Horizontal	255	1.80	-	42.42	11.24	30.34

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5825MHz_TX

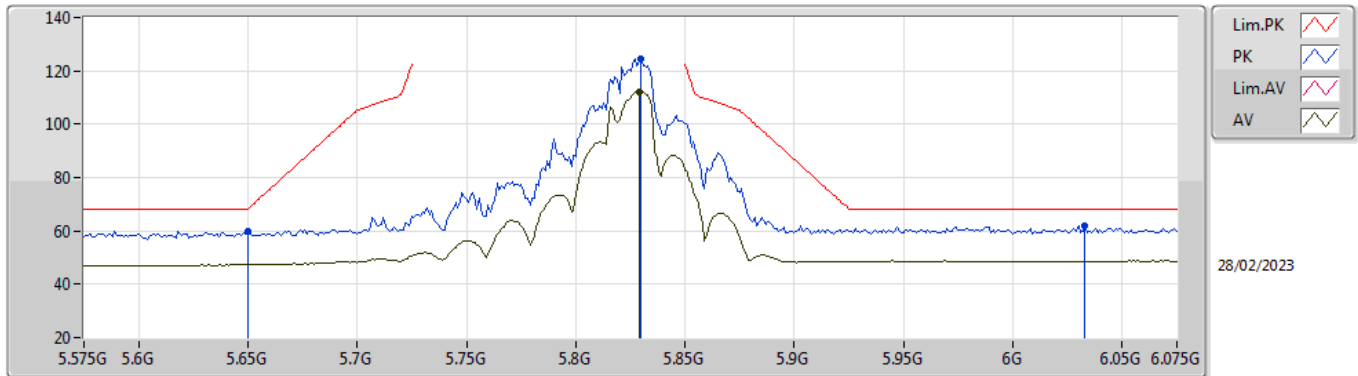


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.587G	59.74	68.20	-8.46	51.97	3	Vertical	359	2.93	-	34.25	6.19	32.67
PK	5.832G	120.31	Inf	-Inf	111.97	3	Vertical	359	2.93	-	34.79	6.32	32.77
AV	5.833G	107.62	Inf	-Inf	99.27	3	Vertical	359	2.93	-	34.80	6.32	32.77
PK	6.036G	61.30	68.20	-6.90	52.15	3	Vertical	359	2.93	-	35.57	6.42	32.84

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5825MHz_TX

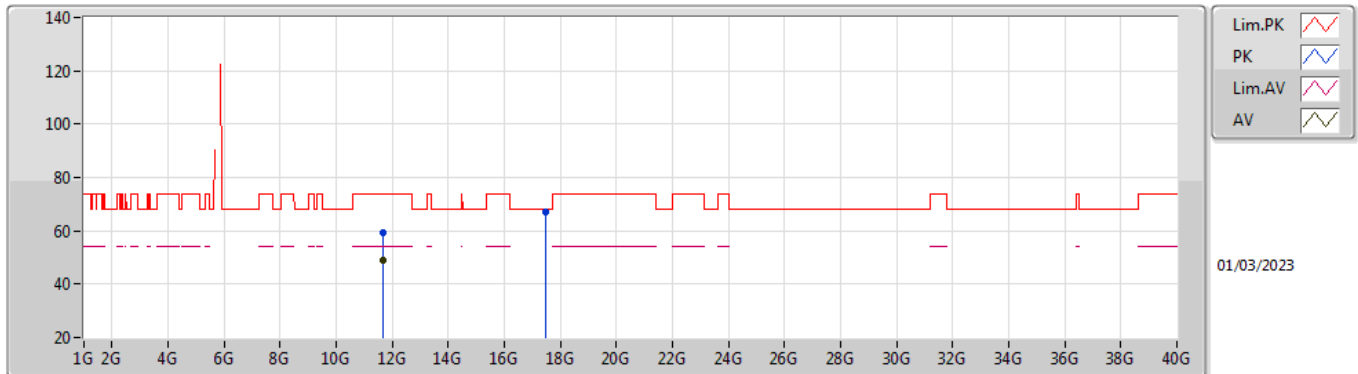


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.65G	59.99	68.20	-8.21	52.17	3	Horizontal	96	1.80	-	34.30	6.22	32.70
PK	5.83G	124.60	Inf	-Inf	116.28	3	Horizontal	96	1.80	-	34.78	6.31	32.77
AV	5.829G	112.22	Inf	-Inf	103.91	3	Horizontal	96	1.80	-	34.77	6.31	32.77
PK	6.033G	61.98	68.20	-6.22	52.83	3	Horizontal	96	1.80	-	35.57	6.42	32.84

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

5825MHz_TX

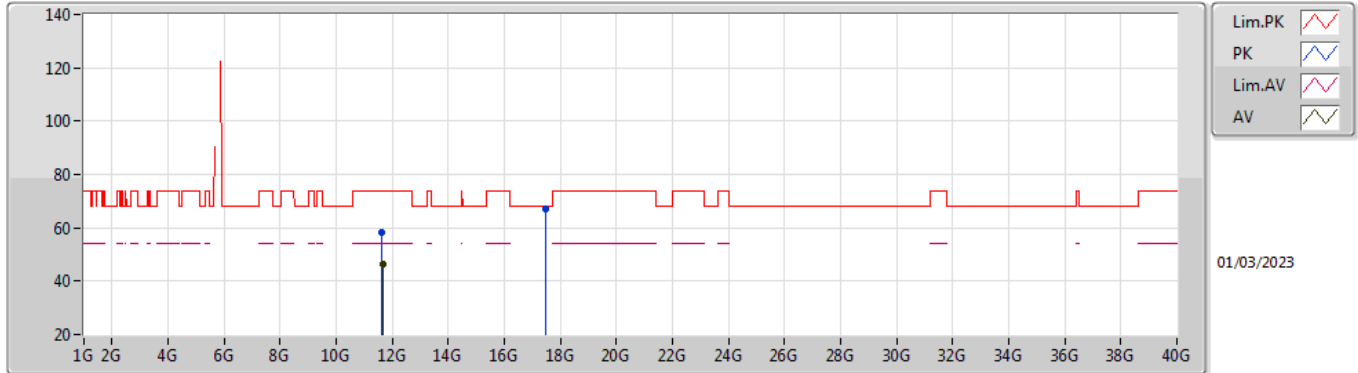


EUT Y_2TX
Setting 28
01-F-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.64988G	59.43	74.00	-14.57	43.30	3	Vertical	106	1.80	-	38.85	8.96	31.68
AV	11.65G	48.89	54.00	-5.11	32.76	3	Vertical	106	1.80	-	38.85	8.96	31.68
PK	17.47332G	66.98	68.20	-1.22	43.71	3	Vertical	288	2.86	-	42.53	11.29	30.55

5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

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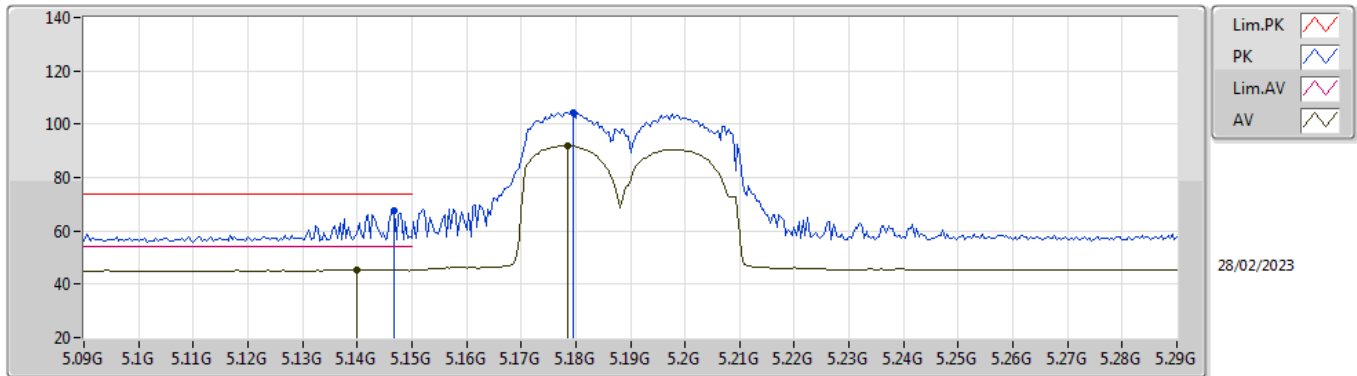


EUT Y_2TX
Setting 28
01-F-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.63764G	58.52	74.00	-15.48	42.40	3	Horizontal	140	1.80	-	38.84	8.96	31.68
AV	11.64988G	46.47	54.00	-7.53	30.34	3	Horizontal	140	1.80	-	38.85	8.96	31.68
PK	17.47282G	66.99	68.20	-1.21	43.72	3	Horizontal	25	1.87	-	42.53	11.29	30.55

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5190MHz_TX

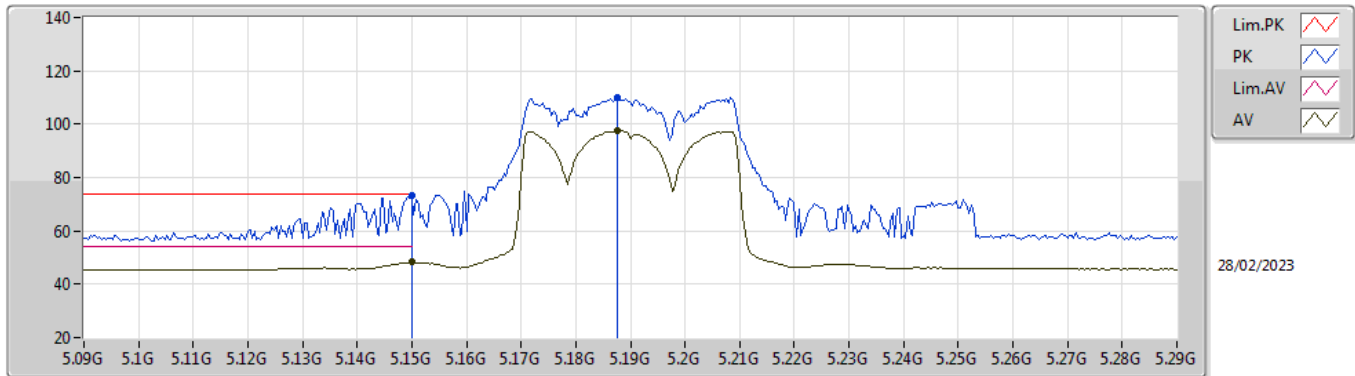


EUT Z_2TX
Setting 18.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1468G	67.35	74.00	-6.65	61.07	3	Vertical	92	1.57	-	33.10	5.97	32.79
AV	5.14G	45.52	54.00	-8.48	39.24	3	Vertical	92	1.57	-	33.10	5.97	32.79
PK	5.1796G	104.55	Inf	-Inf	98.17	3	Vertical	92	1.57	-	33.16	5.99	32.77
AV	5.1784G	92.03	Inf	-Inf	85.66	3	Vertical	92	1.57	-	33.16	5.99	32.78

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5190MHz_TX

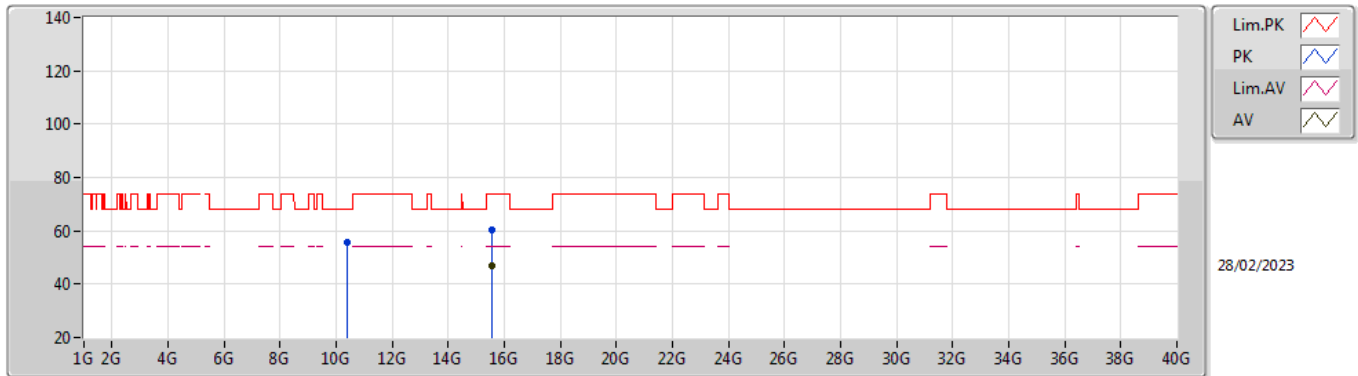


EUT_Z_2TX
Setting 18.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	73.35	74.00	-0.65	67.07	3	Horizontal	347	2.60	-	33.10	5.97	32.79
AV	5.15G	48.22	54.00	-5.78	41.94	3	Horizontal	347	2.60	-	33.10	5.97	32.79
PK	5.1876G	110.24	Inf	-Inf	103.84	3	Horizontal	347	2.60	-	33.18	5.99	32.77
AV	5.1876G	97.54	Inf	-Inf	91.14	3	Horizontal	347	2.60	-	33.18	5.99	32.77

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5190MHz_TX

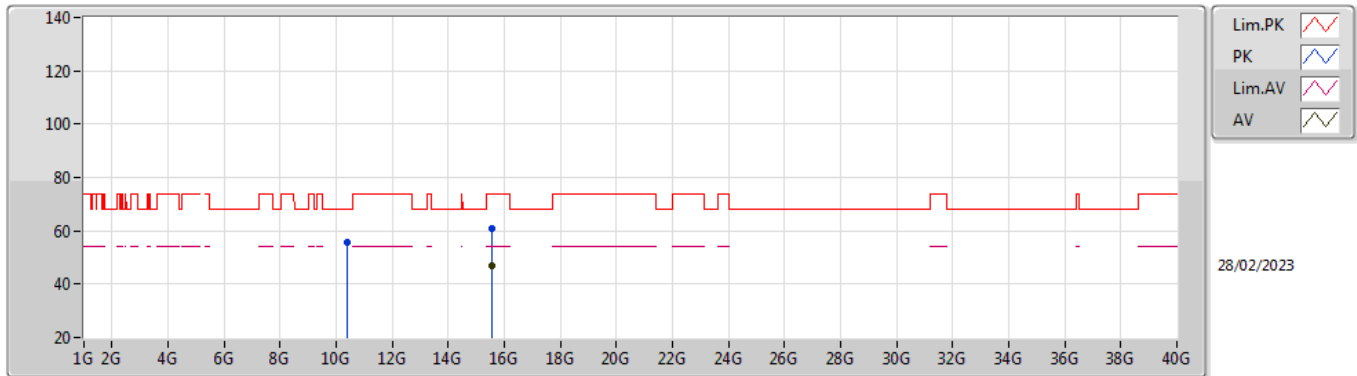


EUT Z_2TX
Setting 18.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.3774G	55.92	68.20	-12.28	40.49	3	Vertical	253	2.32	-	38.75	8.45	31.77
PK	15.56532G	60.54	74.00	-13.46	42.25	3	Vertical	88	2.15	-	38.47	10.53	30.71
AV	15.5698G	46.72	54.00	-7.28	28.44	3	Vertical	88	2.15	-	38.46	10.53	30.71

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5190MHz_TX

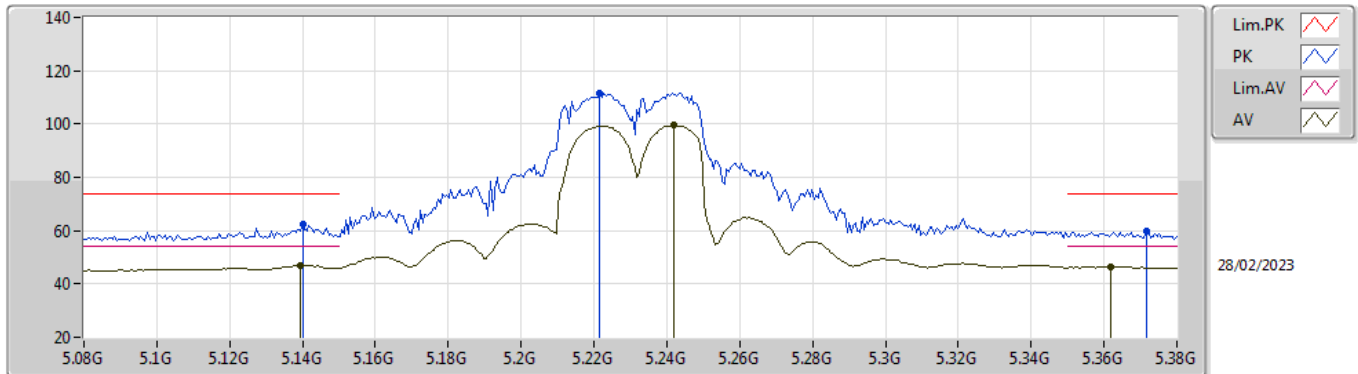


EUT Z_2TX
Setting 18.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.38824G	55.45	68.20	-12.75	39.97	3	Horizontal	100	2.65	-	38.78	8.46	31.76
PK	15.57412G	60.66	74.00	-13.34	42.39	3	Horizontal	309	2.75	-	38.45	10.53	30.71
AV	15.562G	46.74	54.00	-7.26	28.45	3	Horizontal	309	2.75	-	38.48	10.52	30.71

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5230MHz_TX

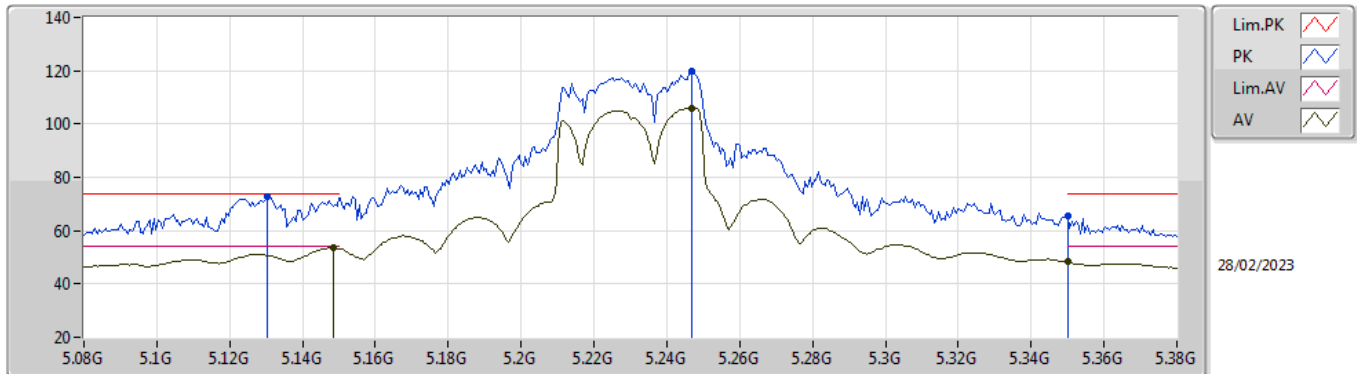


EUT Z_2TX
Setting 25.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.14G	62.49	74.00	-11.51	56.21	3	Vertical	108	2.36	-	33.10	5.97	32.79
AV	5.1394G	47.02	54.00	-6.98	40.74	3	Vertical	108	2.36	-	33.10	5.97	32.79
PK	5.2216G	111.81	Inf	-Inf	105.32	3	Vertical	108	2.36	-	33.24	6.01	32.76
AV	5.242G	99.52	Inf	-Inf	92.97	3	Vertical	108	2.36	-	33.28	6.02	32.75
PK	5.3716G	60.04	74.00	-13.96	53.05	3	Vertical	108	2.36	-	33.59	6.09	32.69
AV	5.362G	46.40	54.00	-7.60	39.47	3	Vertical	108	2.36	-	33.55	6.08	32.70

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5230MHz_TX

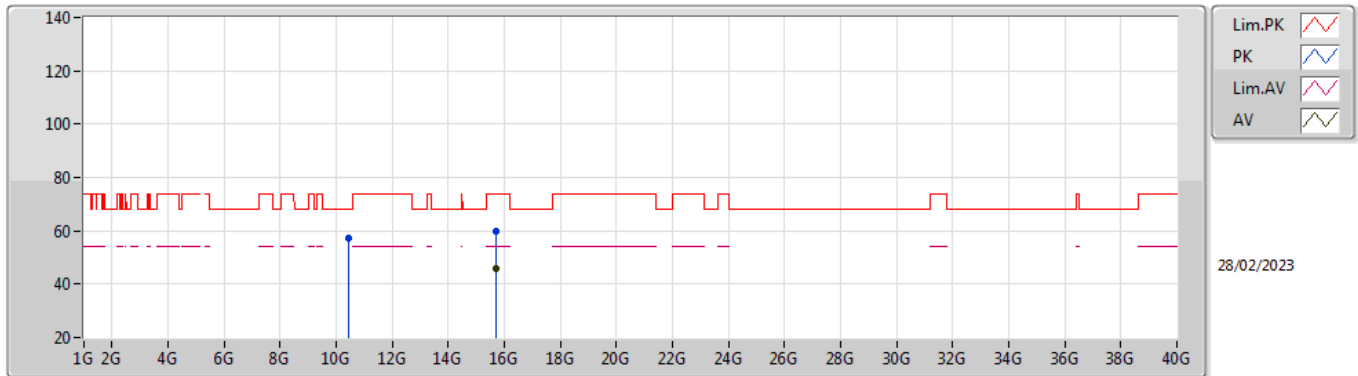


EUT Z_2TX
Setting 25.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1304G	72.67	74.00	-1.33	66.40	3	Horizontal	349	2.53	-	33.10	5.97	32.80
AV	5.1484G	53.55	54.00	-0.45	47.27	3	Horizontal	349	2.53	-	33.10	5.97	32.79
PK	5.2468G	119.71	Inf	-Inf	113.15	3	Horizontal	349	2.53	-	33.29	6.02	32.75
AV	5.2468G	106.05	Inf	-Inf	99.49	3	Horizontal	349	2.53	-	33.29	6.02	32.75
PK	5.35G	65.37	74.00	-8.63	58.49	3	Horizontal	349	2.53	-	33.50	6.08	32.70
AV	5.35G	48.22	54.00	-5.78	41.34	3	Horizontal	349	2.53	-	33.50	6.08	32.70

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5230MHz_TX

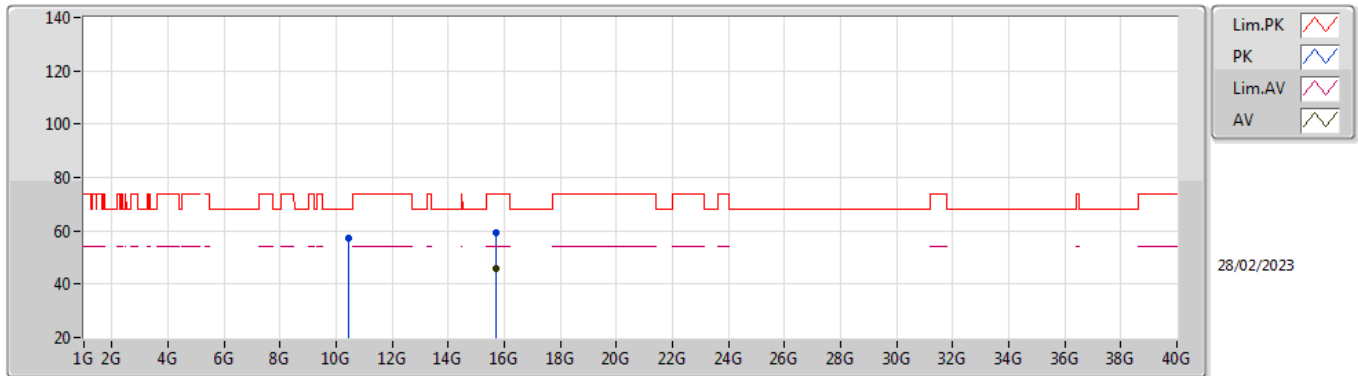


EUT Z_2TX
Setting 25.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.45992G	57.09	68.20	-11.11	41.49	3	Vertical	358	1.80	-	38.80	8.48	31.68
PK	15.69156G	59.95	74.00	-14.05	41.73	3	Vertical	194	1.68	-	38.31	10.58	30.67
AV	15.69012G	46.00	54.00	-8.00	27.78	3	Vertical	194	1.68	-	38.31	10.58	30.67

5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5230MHz_TX

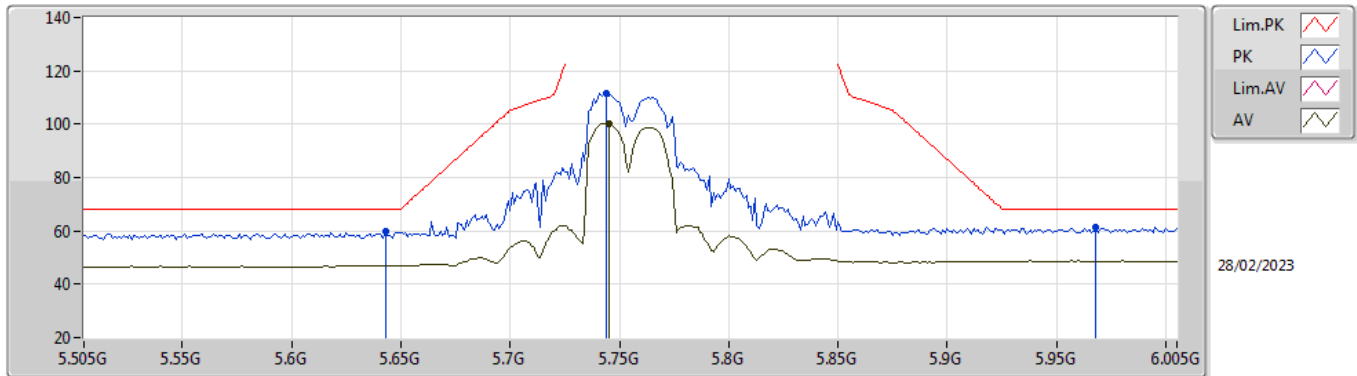


EUT Z_2TX
Setting 25.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.46024G	57.42	68.20	-10.78	41.82	3	Horizontal	313	2.54	-	38.80	8.48	31.68
PK	15.68392G	59.42	74.00	-14.58	41.20	3	Horizontal	347	2.60	-	38.32	10.57	30.67
AV	15.68048G	45.95	54.00	-8.05	27.74	3	Horizontal	347	2.60	-	38.32	10.57	30.68

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5755MHz_TX

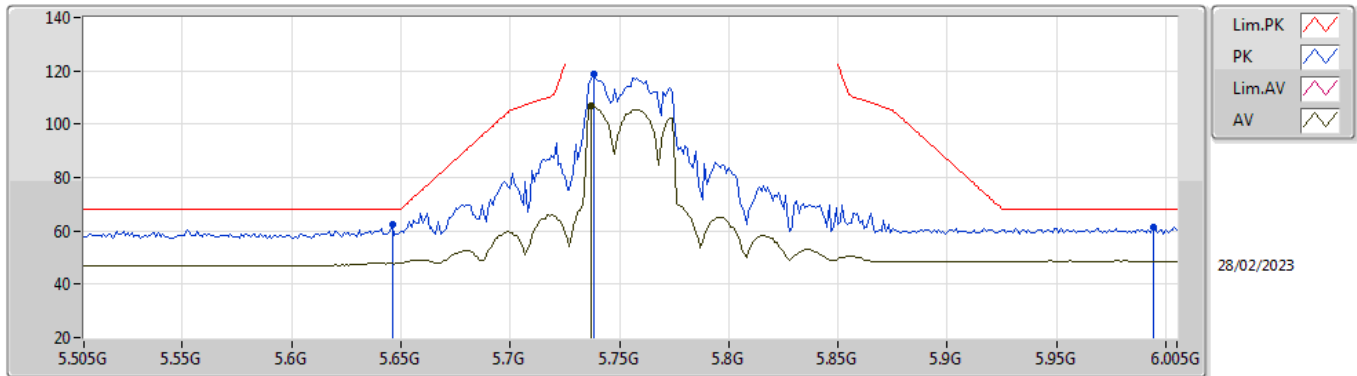


EUT Y_2TX
Setting 23
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.643G	59.86	68.20	-8.34	52.04	3	Vertical	360	2.78	-	34.30	6.22	32.70
PK	5.744G	111.58	Inf	-Inf	103.55	3	Vertical	360	2.78	-	34.50	6.27	32.74
AV	5.745G	100.28	Inf	-Inf	92.25	3	Vertical	360	2.78	-	34.50	6.27	32.74
PK	5.968G	61.63	68.20	-6.57	52.58	3	Vertical	360	2.78	-	35.50	6.38	32.83

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5755MHz_TX

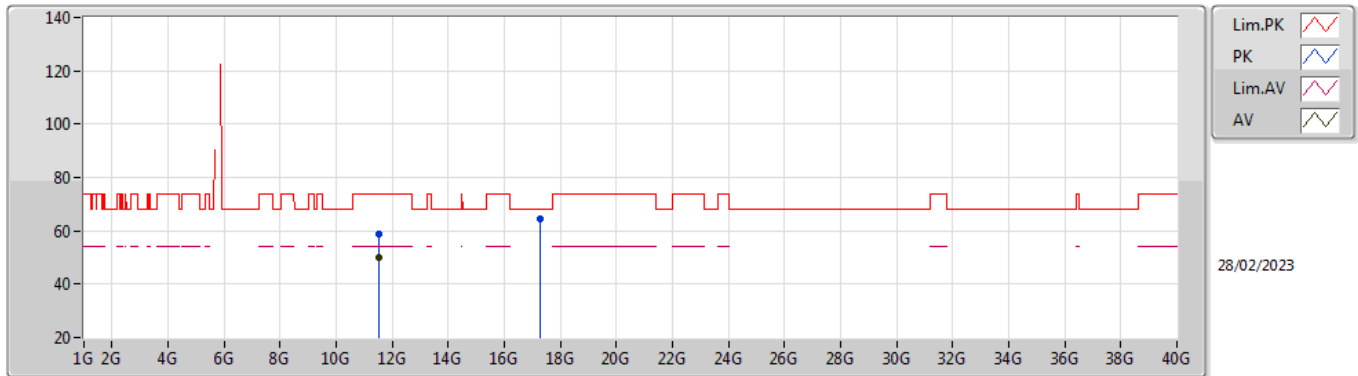


EUT Y_2TX
Setting 23
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.646G	62.39	68.20	-5.81	54.57	3	Horizontal	97	2.22	-	34.30	6.22	32.70
PK	5.738G	118.94	Inf	-Inf	110.91	3	Horizontal	97	2.22	-	34.50	6.27	32.74
AV	5.737G	106.70	Inf	-Inf	98.66	3	Horizontal	97	2.22	-	34.50	6.27	32.73
PK	5.994G	61.42	68.20	-6.78	52.36	3	Horizontal	97	2.22	-	35.50	6.40	32.84

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5755MHz_TX

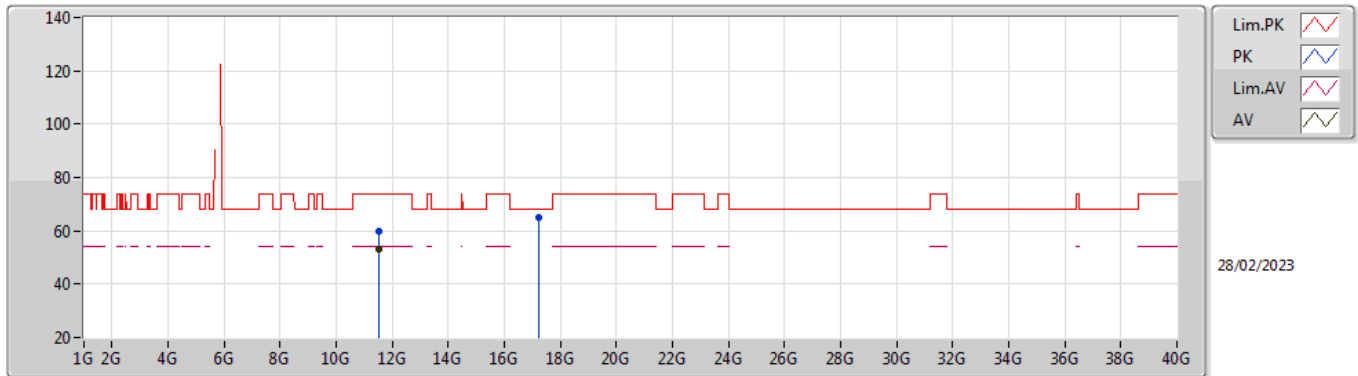


EUT Y_2TX
Setting 23
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.50982G	58.62	74.00	-15.38	42.66	3	Vertical	78	2.98	-	38.80	8.90	31.74
AV	11.50994G	50.02	54.00	-3.98	34.06	3	Vertical	78	2.98	-	38.80	8.90	31.74
PK	17.27106G	64.47	68.20	-3.73	41.31	3	Vertical	69	2.98	-	42.18	11.21	30.23

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5755MHz_TX

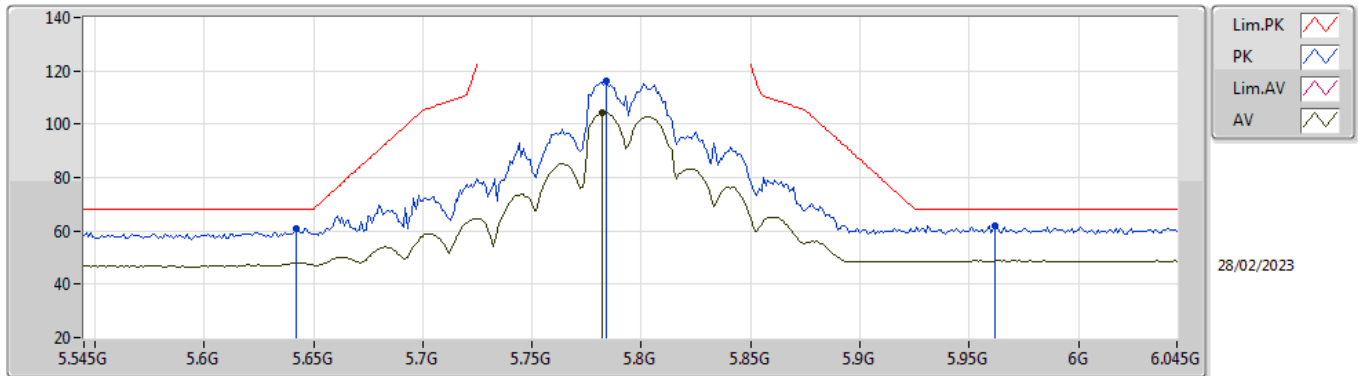


EUT Y_2TX
Setting 23
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.50982G	59.79	74.00	-14.21	43.83	3	Horizontal	39	1.80	-	38.80	8.90	31.74
AV	11.51G	53.05	54.00	-0.95	37.09	3	Horizontal	39	1.80	-	38.80	8.90	31.74
PK	17.25144G	64.87	68.20	-3.33	41.76	3	Horizontal	150	1.80	-	42.11	11.20	30.20

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5795MHz_TX

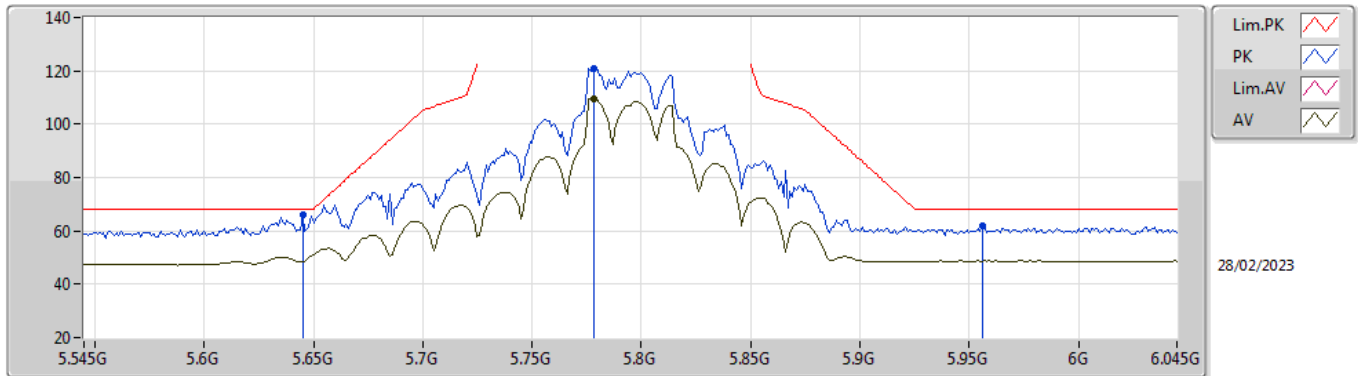


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.642G	61.08	68.20	-7.12	53.26	3	Vertical	360	2.86	-	34.30	6.22	32.70
PK	5.784G	116.16	Inf	-Inf	108.05	3	Vertical	360	2.86	-	34.57	6.29	32.75
AV	5.782G	104.42	Inf	-Inf	96.32	3	Vertical	360	2.86	-	34.56	6.29	32.75
PK	5.962G	61.83	68.20	-6.37	52.77	3	Vertical	360	2.86	-	35.50	6.38	32.82

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5795MHz_TX

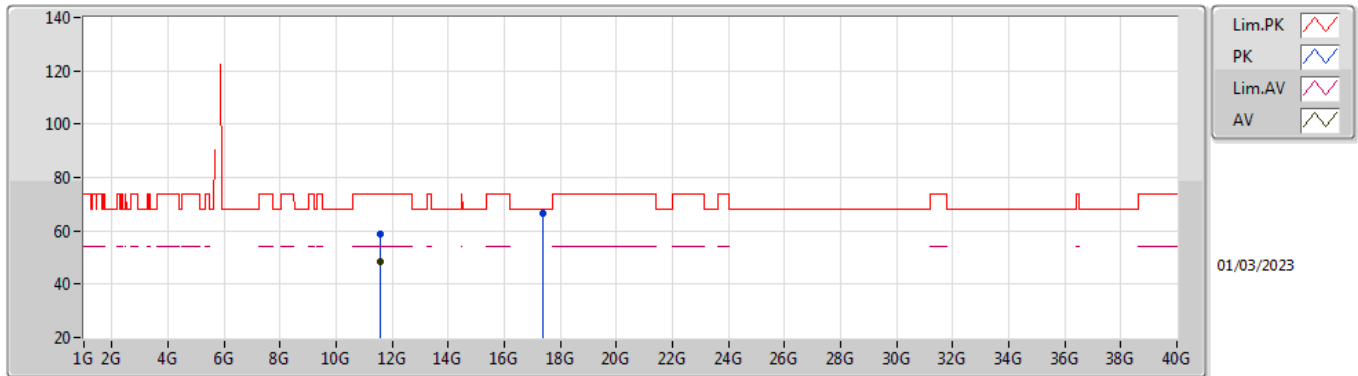


EUT Y_2TX
Setting 28
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.645G	66.07	68.20	-2.13	58.25	3	Horizontal	100	2.32	-	34.30	6.22	32.70
PK	5.778G	120.85	Inf	-Inf	112.75	3	Horizontal	100	2.32	-	34.56	6.29	32.75
AV	5.778G	109.69	Inf	-Inf	101.59	3	Horizontal	100	2.32	-	34.56	6.29	32.75
PK	5.956G	61.91	68.20	-6.29	52.85	3	Horizontal	100	2.32	-	35.50	6.38	32.82

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5795MHz_TX

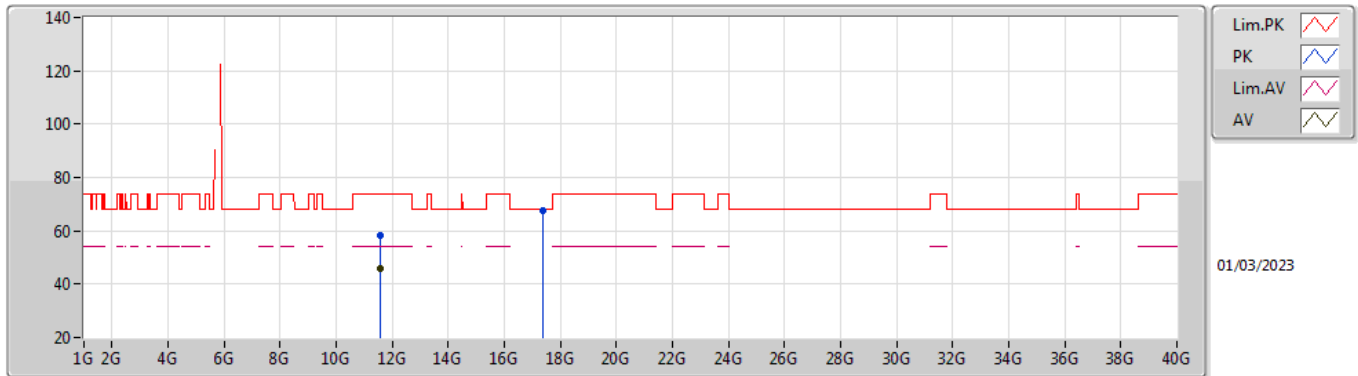


EUT Y_2TX
Setting 28
01-F-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.59528G	58.69	74.00	-15.31	42.65	3	Vertical	110	3.00	-	38.80	8.94	31.70
AV	11.58988G	48.34	54.00	-5.66	32.30	3	Vertical	110	3.00	-	38.80	8.94	31.70
PK	17.38604G	66.57	68.20	-1.63	43.17	3	Vertical	255	2.21	-	42.56	11.25	30.41

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX

5795MHz_TX

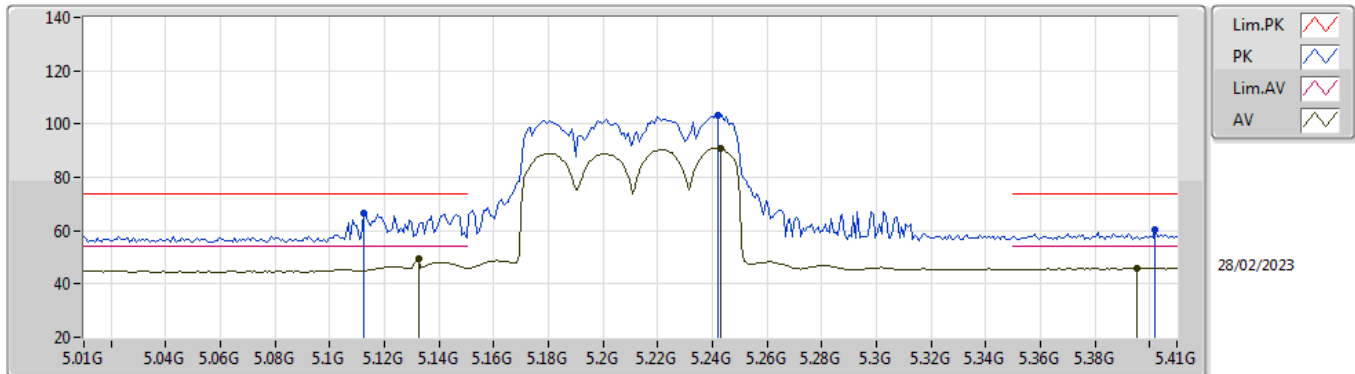


EUT Y_2TX
Setting 28
01-F-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.57938G	58.18	74.00	-15.82	42.16	3	Horizontal	145	1.80	-	38.80	8.93	31.71
AV	11.58994G	45.96	54.00	-8.04	29.92	3	Horizontal	145	1.80	-	38.80	8.94	31.70
PK	17.38776G	67.44	68.20	-0.76	44.03	3	Horizontal	313	1.25	-	42.56	11.26	30.41

5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5210MHz_TX

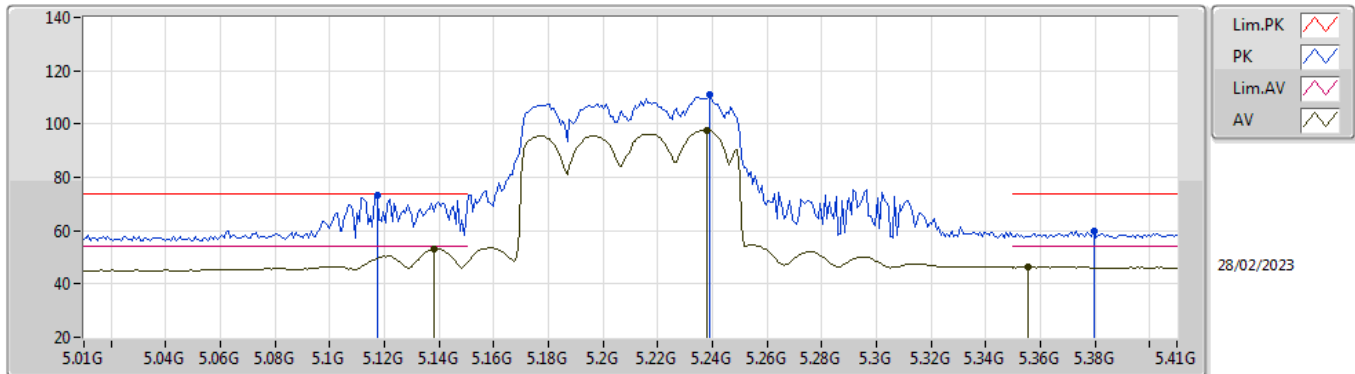


EUT Z_2TX
Setting 19.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1124G	66.64	74.00	-7.36	60.38	3	Vertical	107	2.36	-	33.10	5.96	32.80
AV	5.1324G	49.28	54.00	-4.72	43.00	3	Vertical	107	2.36	-	33.10	5.97	32.79
PK	5.242G	103.49	Inf	-Inf	96.94	3	Vertical	107	2.36	-	33.28	6.02	32.75
AV	5.2428G	91.12	Inf	-Inf	84.56	3	Vertical	107	2.36	-	33.29	6.02	32.75
PK	5.402G	60.37	74.00	-13.63	53.24	3	Vertical	107	2.36	-	33.71	6.10	32.68
AV	5.3956G	45.89	54.00	-8.11	38.79	3	Vertical	107	2.36	-	33.68	6.10	32.68

5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5210MHz_TX

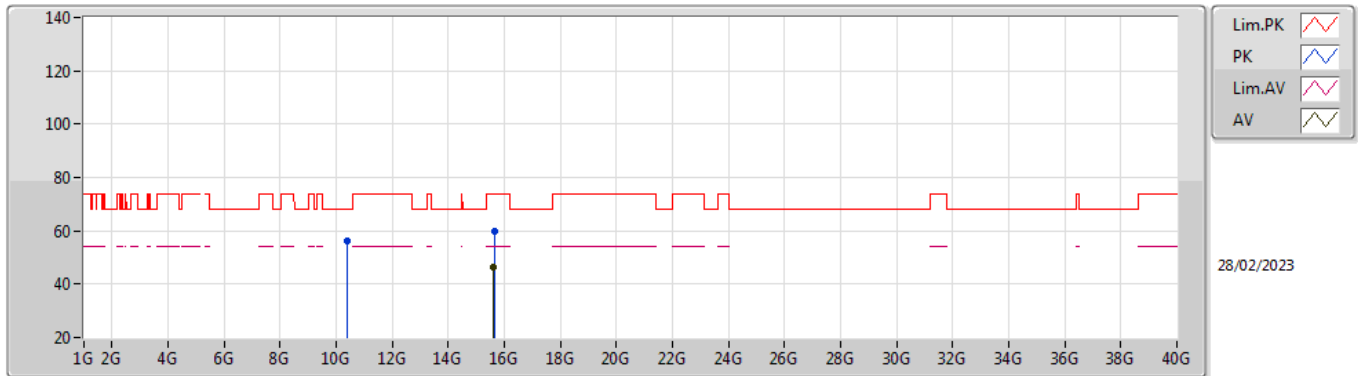


EUT Z_2TX
Setting 19.5
01-B-M-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1172G	73.52	74.00	-0.48	67.26	3	Horizontal	350	1.02	-	33.10	5.96	32.80
AV	5.138G	53.17	54.00	-0.83	46.89	3	Horizontal	350	1.02	-	33.10	5.97	32.79
PK	5.2388G	110.84	Inf	-Inf	104.29	3	Horizontal	350	1.02	-	33.28	6.02	32.75
AV	5.238G	97.73	Inf	-Inf	91.18	3	Horizontal	350	1.02	-	33.28	6.02	32.75
PK	5.3796G	60.03	74.00	-13.97	53.01	3	Horizontal	350	1.02	-	33.62	6.09	32.69
AV	5.3556G	46.37	54.00	-7.63	39.47	3	Horizontal	350	1.02	-	33.52	6.08	32.70

5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5210MHz_TX

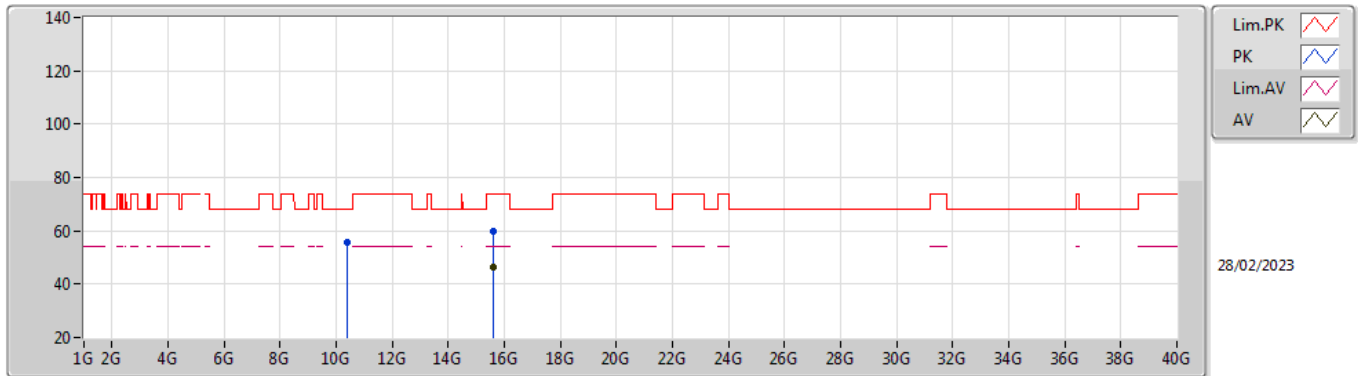


EUT Z_2TX
Setting 19.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.41392G	56.01	68.20	-12.19	40.47	3	Vertical	159	1.40	-	38.80	8.47	31.73
PK	15.63728G	59.98	74.00	-14.02	41.76	3	Vertical	206	2.30	-	38.36	10.55	30.69
AV	15.62424G	46.51	54.00	-7.49	28.27	3	Vertical	206	2.30	-	38.38	10.55	30.69

5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5210MHz_TX

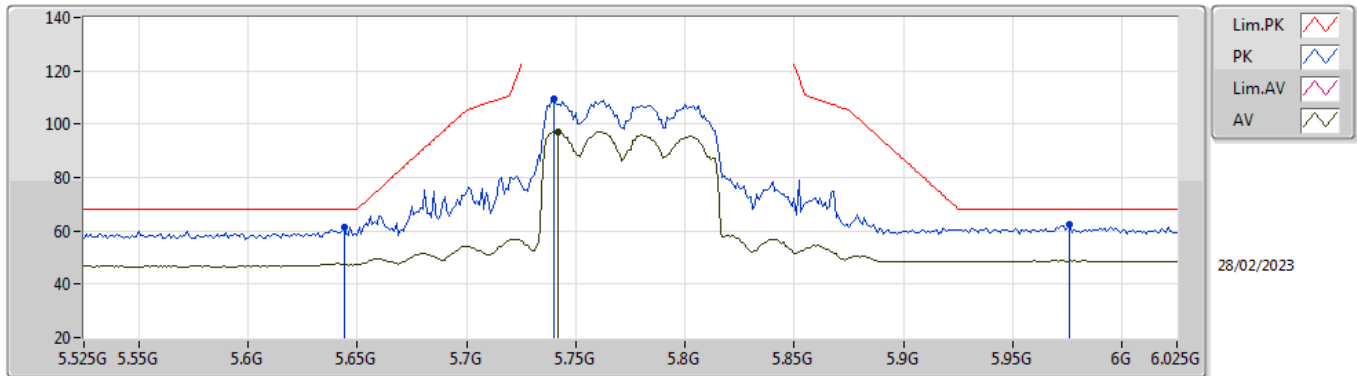


EUT Z_2TX
Setting 19.5
01-B-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.41696G	55.91	68.20	-12.29	40.37	3	Horizontal	56	2.49	-	38.80	8.47	31.73
PK	15.621G	60.05	74.00	-13.95	41.81	3	Horizontal	177	1.88	-	38.38	10.55	30.69
AV	15.62436G	46.31	54.00	-7.69	28.07	3	Horizontal	177	1.88	-	38.38	10.55	30.69

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5775MHz_TX

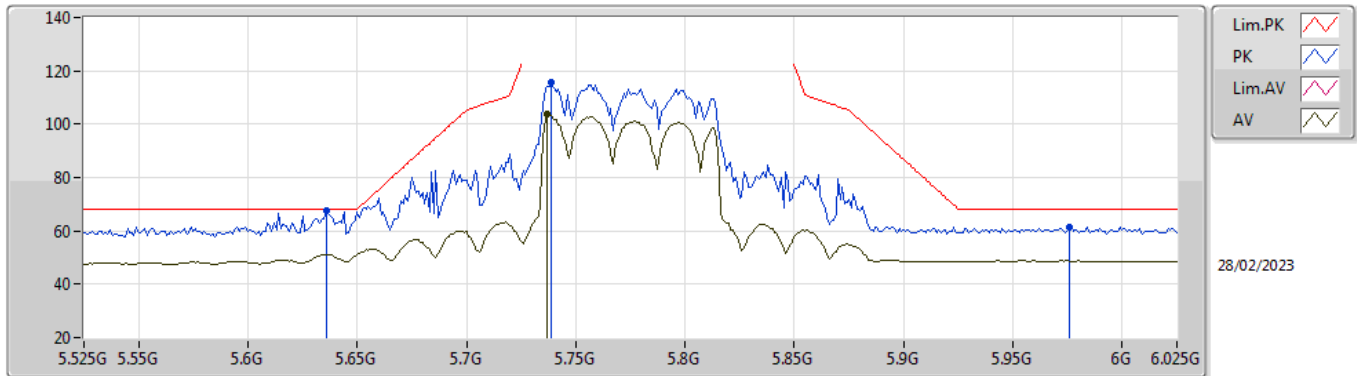


EUT Y_2TX
Setting 22.5
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.644G	61.52	68.20	-6.68	53.70	3	Vertical	352	3.00	-	34.30	6.22	32.70
PK	5.74G	109.59	Inf	-Inf	101.56	3	Vertical	352	3.00	-	34.50	6.27	32.74
AV	5.742G	97.21	Inf	-Inf	89.18	3	Vertical	352	3.00	-	34.50	6.27	32.74
PK	5.976G	62.32	68.20	-5.88	53.26	3	Vertical	352	3.00	-	35.50	6.39	32.83

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5775MHz_TX

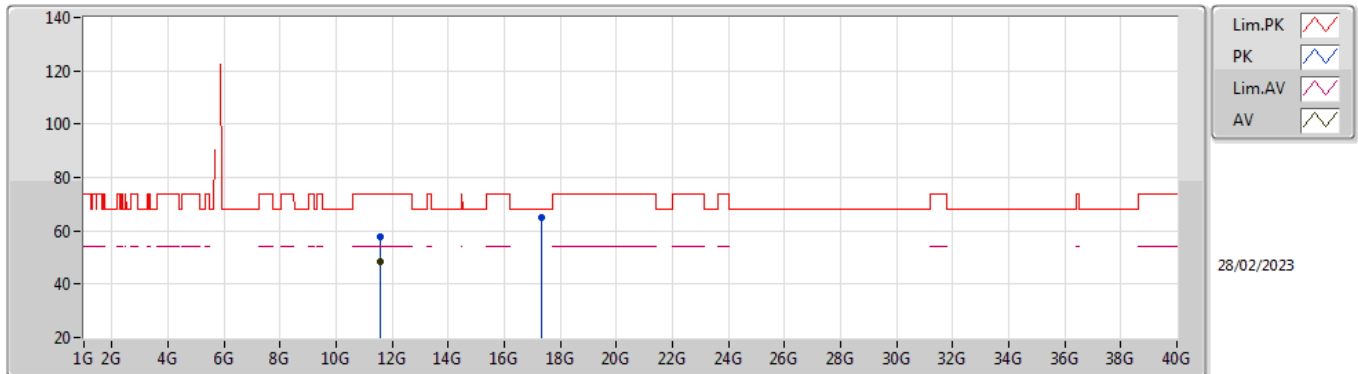


EUT Y_2TX
Setting 22.5
01-B-E-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.636G	67.76	68.20	-0.44	59.93	3	Horizontal	99	2.36	-	34.30	6.22	32.69
PK	5.739G	115.50	Inf	-Inf	107.47	3	Horizontal	99	2.36	-	34.50	6.27	32.74
AV	5.737G	103.60	Inf	-Inf	95.56	3	Horizontal	99	2.36	-	34.50	6.27	32.73
PK	5.976G	61.51	68.20	-6.69	52.45	3	Horizontal	99	2.36	-	35.50	6.39	32.83

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5775MHz_TX

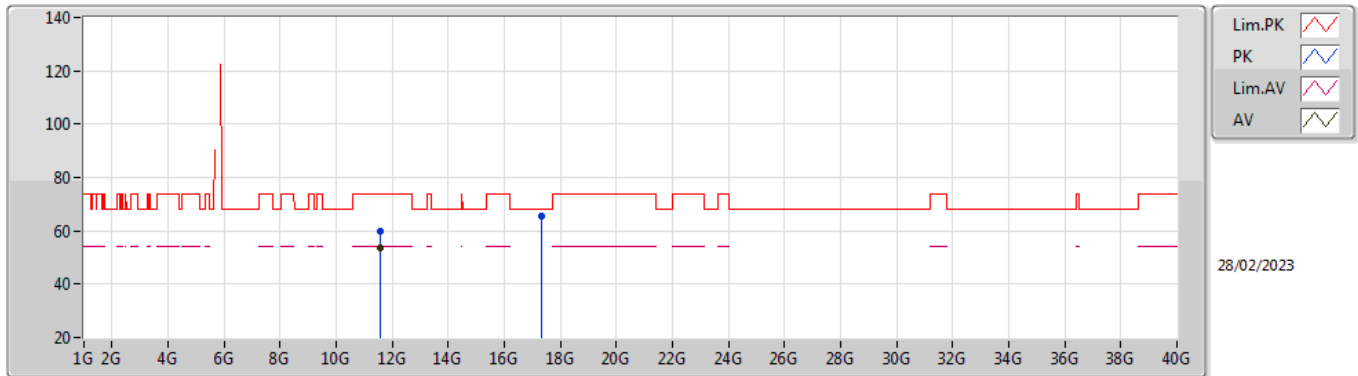


EUT Y_2TX
Setting 22.5
01-B-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.55018G	58.01	74.00	-15.99	42.01	3	Vertical	48	1.80	-	38.80	8.92	31.72
AV	11.54994G	48.25	54.00	-5.75	32.25	3	Vertical	48	1.80	-	38.80	8.92	31.72
PK	17.32602G	65.15	68.20	-3.05	41.86	3	Vertical	278	1.47	-	42.38	11.23	30.32

5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

5775MHz_TX



EUT Y_2TX
Setting 22.5
01-B-E-5

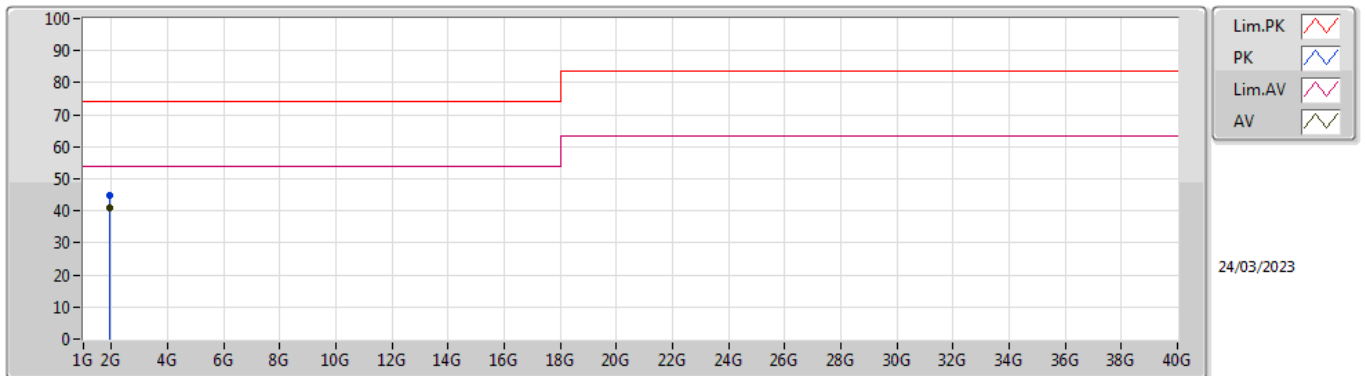
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.55006G	59.95	74.00	-14.05	43.95	3	Horizontal	40	1.80	-	38.80	8.92	31.72
AV	11.54994G	53.48	54.00	-0.52	37.48	3	Horizontal	40	1.80	-	38.80	8.92	31.72
PK	17.32548G	65.45	68.20	-2.75	42.16	3	Horizontal	316	2.22	-	42.38	11.23	30.32



Summary

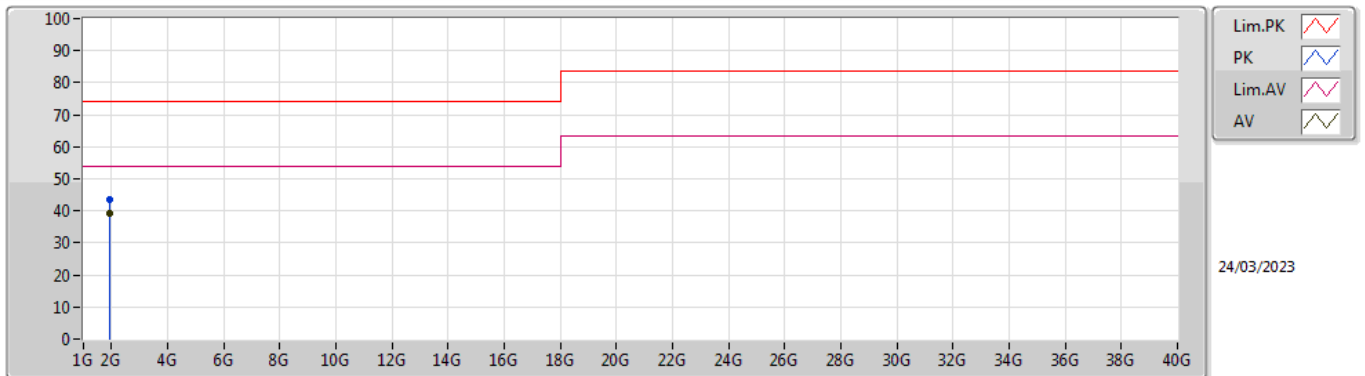
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.92002G	40.97	54.00	-13.03	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.92005G	44.63	74.00	-29.37	-4.33	3	Vertical	13.2	114	-	48.96	25.78	4.43	34.54
AV	1.92002G	40.97	54.00	-13.03	-4.33	3	Vertical	13.2	114	"Worst"	45.30	25.78	4.43	34.54

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.91986G	43.71	74.00	-30.29	-4.33	3	Horizontal	0	253.1	-	48.04	25.78	4.43	34.54
AV	1.92001G	39.35	54.00	-14.65	-4.33	3	Horizontal	0	253.1	"Worst"	43.68	25.78	4.43	34.54